



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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Multilateral Agreement for the recognition of calibration certificates

## Glossary

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| DAE             | data acquisition electronics                                                            |
| Connector angle | information used in DASY system to align probe sensor X to the robot coordinate system. |

## Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

## DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 $\mu$ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X                         | Y                         | Z                         |
|---------------------|---------------------------|---------------------------|---------------------------|
| High Range          | 403.411 $\pm$ 0.02% (k=2) | 403.452 $\pm$ 0.02% (k=2) | 403.463 $\pm$ 0.02% (k=2) |
| Low Range           | 3.96158 $\pm$ 1.50% (k=2) | 3.98747 $\pm$ 1.50% (k=2) | 3.99174 $\pm$ 1.50% (k=2) |

## Connector Angle

|                                           |                                     |
|-------------------------------------------|-------------------------------------|
| Connector Angle to be used in DASY system | 113.5 $^{\circ}$ $\pm$ 1 $^{\circ}$ |
|-------------------------------------------|-------------------------------------|

## Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range        | Reading ( $\mu\text{V}$ ) | Difference ( $\mu\text{V}$ ) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 200024.85                 | -8.32                        | -0.00     |
| Channel X + Input | 20005.36                  | 0.39                         | 0.00      |
| Channel X - Input | -20003.50                 | 2.72                         | -0.01     |
| Channel Y + Input | 200030.06                 | -2.90                        | -0.00     |
| Channel Y + Input | 20004.14                  | -0.70                        | -0.00     |
| Channel Y - Input | -20008.00                 | -1.63                        | 0.01      |
| Channel Z + Input | 200034.52                 | 1.89                         | 0.00      |
| Channel Z + Input | 20005.02                  | 0.16                         | 0.00      |
| Channel Z - Input | -20007.28                 | -0.87                        | 0.00      |

| Low Range         | Reading ( $\mu\text{V}$ ) | Difference ( $\mu\text{V}$ ) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2000.94                   | 0.03                         | 0.00      |
| Channel X + Input | 200.94                    | 0.01                         | 0.01      |
| Channel X - Input | -198.93                   | 0.16                         | -0.08     |
| Channel Y + Input | 2000.58                   | -0.17                        | -0.01     |
| Channel Y + Input | 199.97                    | -0.81                        | -0.40     |
| Channel Y - Input | -200.24                   | -0.99                        | 0.50      |
| Channel Z + Input | 2000.83                   | 0.21                         | 0.01      |
| Channel Z + Input | 199.97                    | -0.67                        | -0.34     |
| Channel Z - Input | -199.90                   | -0.63                        | 0.32      |

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Common mode Input Voltage (mV) | High Range Average Reading ( $\mu\text{V}$ ) | Low Range Average Reading ( $\mu\text{V}$ ) |
|-----------|--------------------------------|----------------------------------------------|---------------------------------------------|
| Channel X | 200                            | 23.26                                        | 21.16                                       |
|           | - 200                          | -21.29                                       | -22.70                                      |
| Channel Y | 200                            | -27.83                                       | -28.04                                      |
|           | - 200                          | 26.48                                        | 26.49                                       |
| Channel Z | 200                            | -11.47                                       | -11.06                                      |
|           | - 200                          | 9.80                                         | 9.70                                        |

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Input Voltage (mV) | Channel X ( $\mu\text{V}$ ) | Channel Y ( $\mu\text{V}$ ) | Channel Z ( $\mu\text{V}$ ) |
|-----------|--------------------|-----------------------------|-----------------------------|-----------------------------|
| Channel X | 200                | -                           | 1.92                        | -3.40                       |
| Channel Y | 200                | 8.27                        | -                           | 3.32                        |
| Channel Z | 200                | 9.47                        | 5.42                        | -                           |

#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15579            | 16774           |
| Channel Y | 16044            | 14871           |
| Channel Z | 16074            | 16518           |

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M $\Omega$

|           | Average ( $\mu$ V) | min. Offset ( $\mu$ V) | max. Offset ( $\mu$ V) | Std. Deviation ( $\mu$ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | 0.87               | -0.93                  | 1.98                   | 0.46                      |
| Channel Y | -0.62              | -1.71                  | 0.15                   | 0.38                      |
| Channel Z | -0.46              | -1.45                  | 0.52                   | 0.39                      |

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

#### 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9              |
| Supply (- Vcc) | -7.6              |

#### 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |



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Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **DAE4-690\_Mar20**

## CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BM - SN: 690**

Calibration procedure(s) **QA CAL-06.v30**  
**Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **March 26, 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  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards             | ID #               | Cal Date (Certificate No.) | Scheduled Calibration  |
|-------------------------------|--------------------|----------------------------|------------------------|
| Keithley Multimeter Type 2001 | SN: 0810278        | 03-Sep-19 (No:25949)       | Sep-20                 |
| Secondary Standards           | ID #               | Check Date (in house)      | Scheduled Check        |
| Auto DAE Calibration Unit     | SE UWS 053 AA 1001 | 09-Jan-20 (in house check) | In house check: Jan-21 |
| Calibrator Box V2.1           | SE UMS 006 AA 1002 | 09-Jan-20 (in house check) | In house check: Jan-21 |

|                |                       |                                   |               |
|----------------|-----------------------|-----------------------------------|---------------|
| Calibrated by: | Name<br>Eric Hainfeld | Function<br>Laboratory Technician | Signature<br> |
| Approved by:   | Sven Kühn             | Deputy Manager                    |               |

Issued: March 26, 2020

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



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## Glossary

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| Connector angle | information used in DASY system to align probe sensor X to the robot coordinate system. |

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## DC Voltage Measurement

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Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X                         | Y                         | Z                         |
|---------------------|---------------------------|---------------------------|---------------------------|
| High Range          | 404.708 $\pm$ 0.02% (k=2) | 404.320 $\pm$ 0.02% (k=2) | 405.284 $\pm$ 0.02% (k=2) |
| Low Range           | 3.98091 $\pm$ 1.50% (k=2) | 3.99691 $\pm$ 1.50% (k=2) | 3.93809 $\pm$ 1.50% (k=2) |

## Connector Angle

|                                           |                  |
|-------------------------------------------|------------------|
| Connector Angle to be used in DASY system | 34.0 ° $\pm$ 1 ° |
|-------------------------------------------|------------------|

## Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range        | Reading ( $\mu\text{V}$ ) | Difference ( $\mu\text{V}$ ) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 200033.46                 | 0.84                         | 0.00      |
| Channel X + Input | 20008.04                  | 2.81                         | 0.01      |
| Channel X - Input | -20004.44                 | 1.63                         | -0.01     |
| Channel Y + Input | 200033.01                 | 0.28                         | 0.00      |
| Channel Y + Input | 20004.74                  | -0.31                        | -0.00     |
| Channel Y - Input | -20006.65                 | -0.48                        | 0.00      |
| Channel Z + Input | 200032.64                 | -2.81                        | -0.00     |
| Channel Z + Input | 20006.13                  | 1.16                         | 0.01      |
| Channel Z - Input | -20004.98                 | 1.17                         | -0.01     |

| Low Range         | Reading ( $\mu\text{V}$ ) | Difference ( $\mu\text{V}$ ) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2000.43                   | -0.43                        | -0.02     |
| Channel X + Input | 200.02                    | -0.96                        | -0.48     |
| Channel X - Input | -198.74                   | 0.19                         | -0.09     |
| Channel Y + Input | 2001.49                   | 0.62                         | 0.03      |
| Channel Y + Input | 200.61                    | -0.27                        | -0.13     |
| Channel Y - Input | -200.64                   | -1.61                        | 0.81      |
| Channel Z + Input | 2001.03                   | 0.27                         | 0.01      |
| Channel Z + Input | 200.69                    | -0.18                        | -0.09     |
| Channel Z - Input | -199.00                   | 0.18                         | -0.09     |

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Common mode Input Voltage (mV) | High Range Average Reading ( $\mu\text{V}$ ) | Low Range Average Reading ( $\mu\text{V}$ ) |
|-----------|--------------------------------|----------------------------------------------|---------------------------------------------|
| Channel X | 200                            | 14.15                                        | 12.87                                       |
|           | - 200                          | -12.83                                       | -14.22                                      |
| Channel Y | 200                            | 2.88                                         | 2.89                                        |
|           | - 200                          | -4.30                                        | -4.61                                       |
| Channel Z | 200                            | 0.04                                         | 0.39                                        |
|           | - 200                          | -0.98                                        | -1.01                                       |

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Input Voltage (mV) | Channel X ( $\mu\text{V}$ ) | Channel Y ( $\mu\text{V}$ ) | Channel Z ( $\mu\text{V}$ ) |
|-----------|--------------------|-----------------------------|-----------------------------|-----------------------------|
| Channel X | 200                | -                           | -2.69                       | -2.68                       |
| Channel Y | 200                | 7.95                        | -                           | -0.72                       |
| Channel Z | 200                | 6.90                        | 5.66                        | -                           |

#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16115            | 16314           |
| Channel Y | 16039            | 16490           |
| Channel Z | 16004            | 15469           |

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M $\Omega$

|           | Average ( $\mu$ V) | min. Offset ( $\mu$ V) | max. Offset ( $\mu$ V) | Std. Deviation ( $\mu$ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | 0.25               | -1.26                  | 1.64                   | 0.55                      |
| Channel Y | -0.70              | -1.97                  | 1.10                   | 0.51                      |
| Channel Z | 1.51               | -0.80                  | 2.84                   | 0.58                      |

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

#### 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9              |
| Supply (- Vcc) | -7.6              |

#### 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |



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Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-3935\_May20**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3935**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7**  
**Calibration procedure for dosimetric E-field probes**

Calibration date: **May 27, 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 ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 01-Apr-20 (No. 217-03100/03101)   | Apr-21                 |
| Power sensor NRP-Z91       | SN: 103244       | 01-Apr-20 (No. 217-03100)         | Apr-21                 |
| Power sensor NRP-Z91       | SN: 103245       | 01-Apr-20 (No. 217-03101)         | Apr-21                 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 31-Mar-20 (No. 217-03106)         | Apr-21                 |
| DAE4                       | SN: 660          | 27-Dec-19 (No. DAE4-660_Dec19)    | Dec-20                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-19 (No. ES3-3013_Dec19)    | Dec-20                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498067   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |

|                                                                                                                 | Name          | Function              | Signature            |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|----------------------|
| Calibrated by:                                                                                                  | Leif Klysner  | Laboratory Technician |                      |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |                      |
|                                                                                                                 |               |                       | Issued: June 1, 2020 |
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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 $\varphi$   | $\varphi$ rotation around probe axis                                                                                                                 |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ 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  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-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 with CW signal (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>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D 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 values 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).

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3935

### 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     | 0.53     | 0.48     | ± 10.1 %  |
| DCP (mV) <sup>B</sup>                                     | 102.6    | 103.2    | 102.3    |           |

### Calibration Results for Modulation Response

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Max<br>dev. | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|-------------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 137.0    | ± 3.3 %     | ± 4.7 %                   |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 150.1    |             |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 141.6    |             |                           |

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<sup>2</sup>-field uncertainty inside TSL (see Page 5).

<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.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3935

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 44.5       |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3935

### 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) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.58   | 10.58   | 10.58   | 0.57               | 0.80                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.31   | 10.31   | 10.31   | 0.38               | 0.93                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 10.16   | 10.16   | 10.16   | 0.40               | 0.88                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.60    | 8.60    | 8.60    | 0.27               | 0.86                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.35    | 8.35    | 8.35    | 0.24               | 0.86                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.25    | 8.25    | 8.25    | 0.34               | 0.86                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.86    | 7.86    | 7.86    | 0.35               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.60    | 7.60    | 7.60    | 0.33               | 0.90                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.43    | 7.43    | 7.43    | 0.37               | 0.90                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.04    | 5.04    | 5.04    | 0.40               | 1.80                    | ± 14.0 %  |
| 5600                 | 35.5                               | 5.07                            | 4.76    | 4.76    | 4.76    | 0.40               | 1.80                    | ± 14.0 %  |
| 5750                 | 35.4                               | 5.22                            | 4.67    | 4.67    | 4.67    | 0.40               | 1.80                    | ± 14.0 %  |

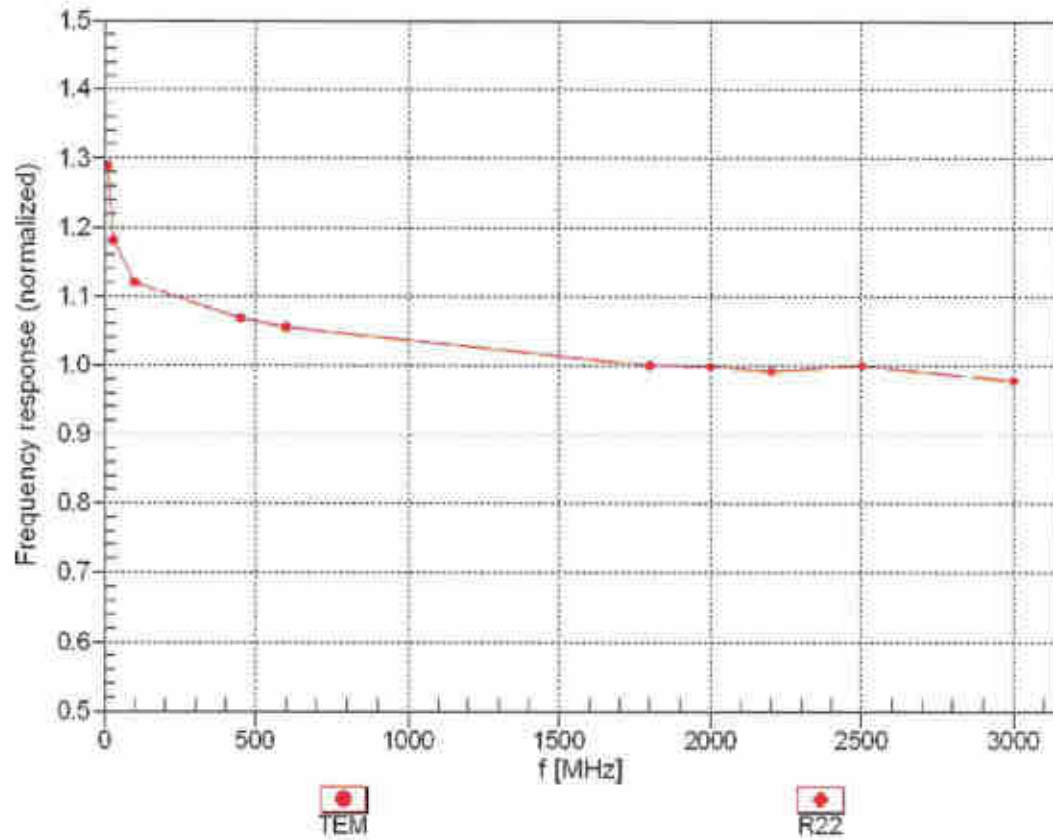
<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>f</sup> At frequencies up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. 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 frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

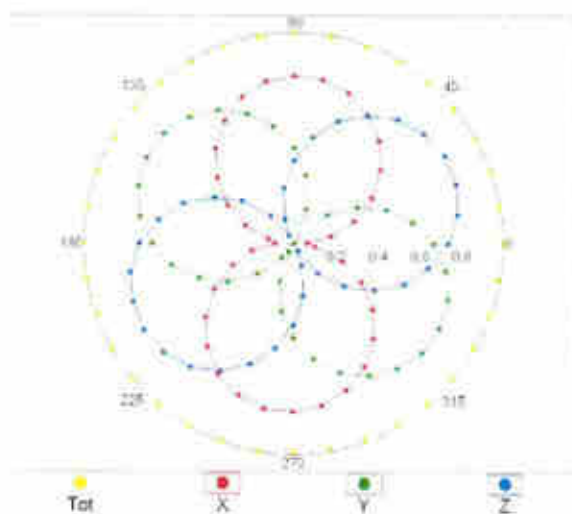
(TEM-Cell:ifi110 EXX, Waveguide: R22)



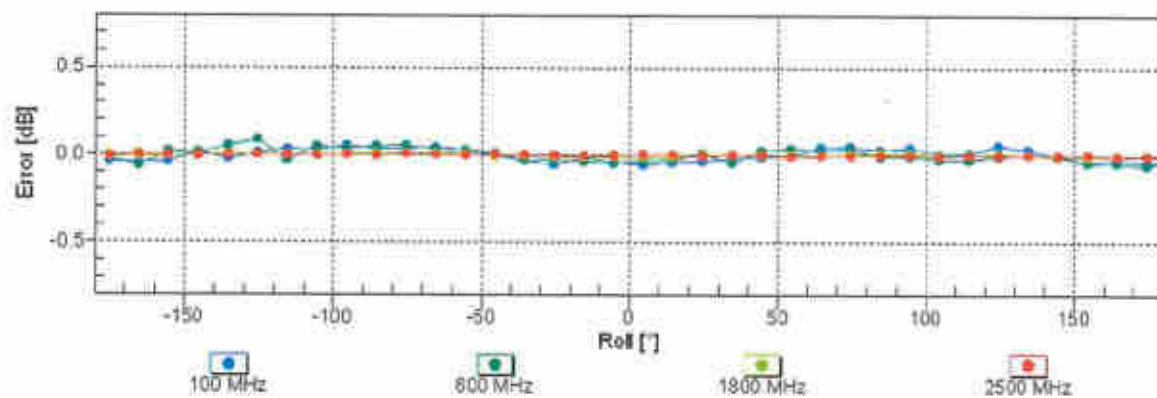
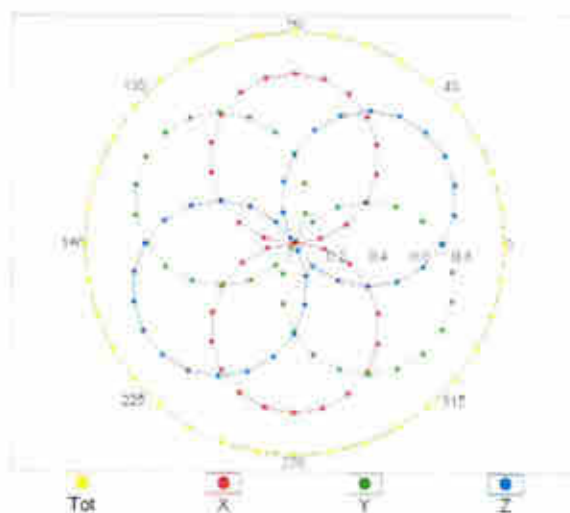
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$

f=600 MHz,TEM

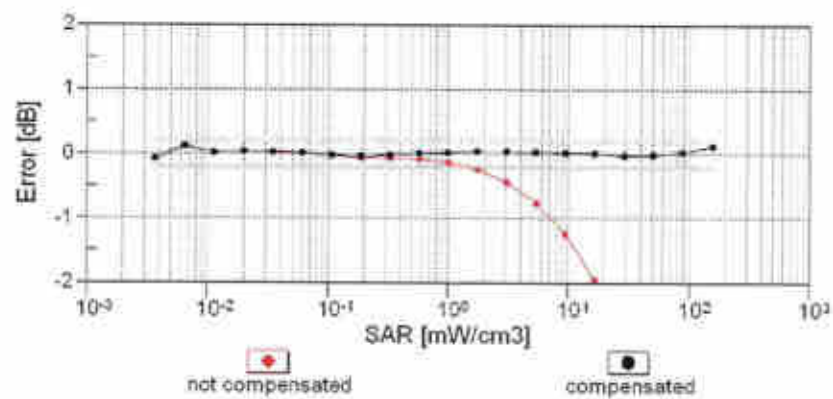
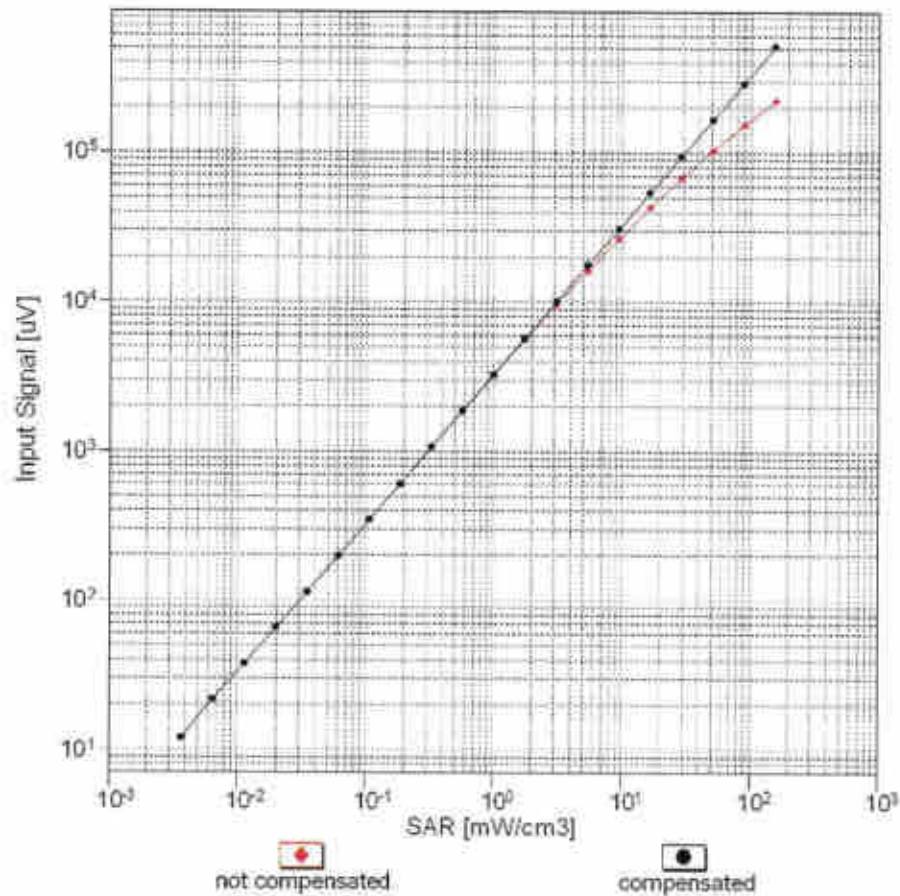


f=1800 MHz,R22



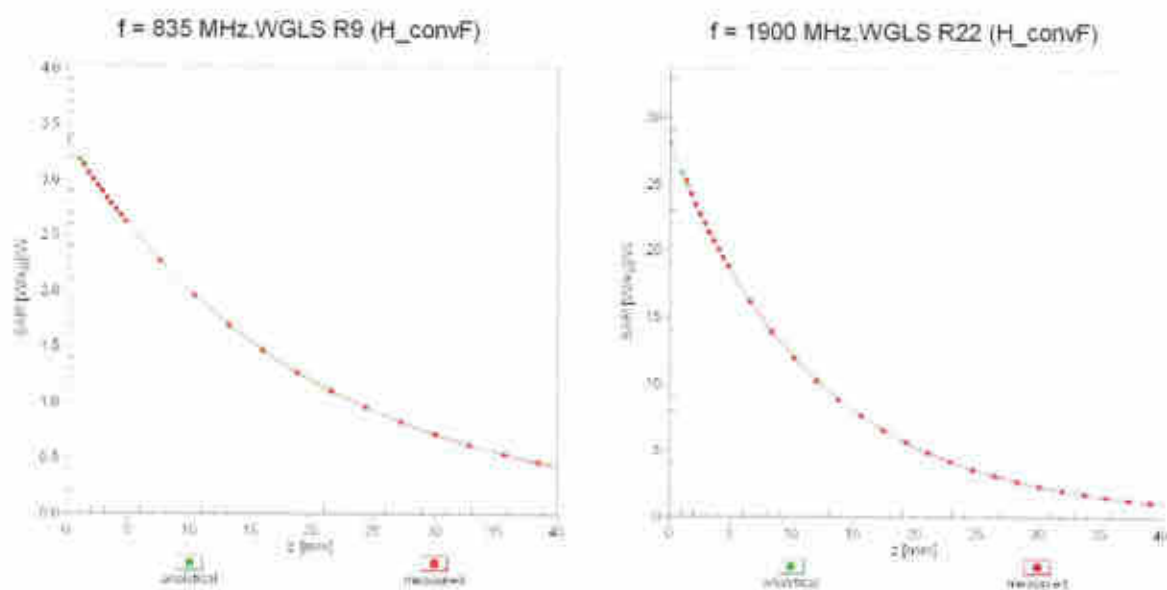
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



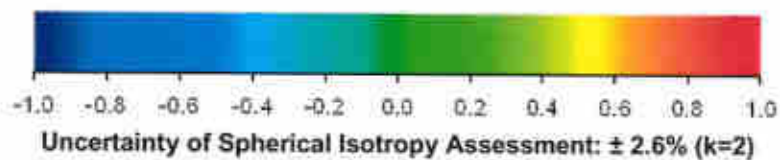
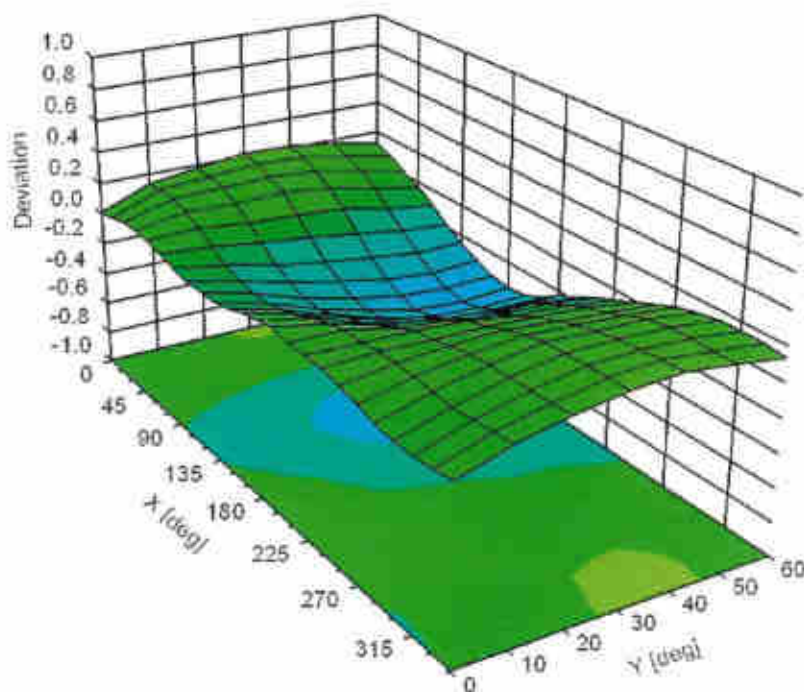
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  (k=2)

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi$ ,  $\vartheta$ ),  $f = 900 \text{ MHz}$





Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates.

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-7592\_May20**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7592**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7**  
 Calibration procedure for dosimetric E-field probes

Calibration date: **May 22, 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  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 01-Apr-20 (No. 217-03100/03101)   | Apr-21                 |
| Power sensor NRP-Z91       | SN: 103244       | 01-Apr-20 (No. 217-03100)         | Apr-21                 |
| Power sensor NRP-Z91       | SN: 103245       | 01-Apr-20 (No. 217-03101)         | Apr-21                 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 31-Mar-20 (No. 217-03106)         | Apr-21                 |
| DAE4                       | SN: 660          | 27-Dec-19 (No. DAE4-660_Dec19)    | Dec-20                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-19 (No. ES3-3013_Dec19)    | Dec-20                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |

|                                                                                                                 | Name           | Function              | Signature            |
|-----------------------------------------------------------------------------------------------------------------|----------------|-----------------------|----------------------|
| Calibrated by:                                                                                                  | Jeton Kastrati | Laboratory Technician |                      |
| Approved by:                                                                                                    | Katja Pokovic  | Technical Manager     |                      |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                |                       | Issued: May 27, 2020 |



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

### 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 $\varphi$   | $\varphi$ rotation around probe axis                                                                                                                    |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ 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  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-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 with CW signal (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>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D 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 values 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).

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

## Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.66     | 0.47     | 0.46     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 98.7     | 100.2    | 98.2     |               |

## Calibration Results for Modulation Response

| UID       | Communication System Name   |   | A<br>dB | B<br>dB $\backslash\mu\text{V}$ | C     | D<br>dB | VR<br>mV | Max<br>dev.  | Max<br>Unc <sup>E</sup><br>(k=2) |
|-----------|-----------------------------|---|---------|---------------------------------|-------|---------|----------|--------------|----------------------------------|
| 0         | CW                          | X | 0.00    | 0.00                            | 1.00  | 0.00    | 143.0    | $\pm 3.3 \%$ | $\pm 4.7 \%$                     |
|           |                             | Y | 0.00    | 0.00                            | 1.00  |         | 137.6    |              |                                  |
|           |                             | Z | 0.00    | 0.00                            | 1.00  |         | 139.6    |              |                                  |
| 10352-AAA | Pulse Waveform (200Hz, 10%) | X | 20.00   | 96.67                           | 23.94 | 10.00   | 60.0     | $\pm 3.2 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 95.48                           | 23.94 |         | 60.0     |              |                                  |
|           |                             | Z | 20.00   | 95.35                           | 23.55 |         | 60.0     |              |                                  |
| 10353-AAA | Pulse Waveform (200Hz, 20%) | X | 20.00   | 98.13                           | 23.72 | 6.99    | 80.0     | $\pm 1.6 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 96.17                           | 23.28 |         | 80.0     |              |                                  |
|           |                             | Z | 20.00   | 99.34                           | 24.32 |         | 80.0     |              |                                  |
| 10354-AAA | Pulse Waveform (200Hz, 40%) | X | 20.00   | 103.13                          | 24.87 | 3.98    | 95.0     | $\pm 1.2 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 100.39                          | 24.05 |         | 95.0     |              |                                  |
|           |                             | Z | 20.00   | 107.03                          | 26.46 |         | 95.0     |              |                                  |
| 10355-AAA | Pulse Waveform (200Hz, 60%) | X | 20.00   | 109.16                          | 26.39 | 2.22    | 120.0    | $\pm 1.2 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 106.91                          | 25.85 |         | 120.0    |              |                                  |
|           |                             | Z | 20.00   | 115.84                          | 28.99 |         | 120.0    |              |                                  |
| 10387-AAA | QPSK Waveform, 1 MHz        | X | 1.66    | 64.78                           | 14.38 | 1.00    | 150.0    | $\pm 1.5 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 1.82    | 65.72                           | 15.24 |         | 150.0    |              |                                  |
|           |                             | Z | 1.64    | 65.30                           | 14.64 |         | 150.0    |              |                                  |
| 10388-AAA | QPSK Waveform, 10 MHz       | X | 2.15    | 66.68                           | 15.00 | 0.00    | 150.0    | $\pm 1.0 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 2.39    | 68.24                           | 15.90 |         | 150.0    |              |                                  |
|           |                             | Z | 2.16    | 67.14                           | 15.34 |         | 150.0    |              |                                  |
| 10396-AAA | 64-QAM Waveform, 100 kHz    | X | 2.92    | 69.89                           | 18.38 | 3.01    | 150.0    | $\pm 0.7 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 3.01    | 70.02                           | 18.55 |         | 150.0    |              |                                  |
|           |                             | Z | 2.52    | 68.22                           | 17.84 |         | 150.0    |              |                                  |
| 10399-AAA | 64-QAM Waveform, 40 MHz     | X | 3.50    | 66.65                           | 15.46 | 0.00    | 150.0    | $\pm 0.7 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 3.65    | 67.33                           | 15.92 |         | 150.0    |              |                                  |
|           |                             | Z | 3.49    | 66.76                           | 15.61 |         | 150.0    |              |                                  |
| 10414-AAA | WLAN CCDF, 64-QAM, 40MHz    | X | 4.93    | 65.49                           | 15.38 | 0.00    | 150.0    | $\pm 1.3 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 4.87    | 65.08                           | 15.27 |         | 150.0    |              |                                  |
|           |                             | Z | 4.88    | 65.48                           | 15.46 |         | 150.0    |              |                                  |

Note: For details on UID parameters see Appendix

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 5).

<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.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>V <sup>-1</sup> | T1<br>ms.V <sup>-2</sup> | T2<br>ms.V <sup>-1</sup> | T3<br>ms | T4<br>V <sup>-2</sup> | T5<br>V <sup>-1</sup> | T6   |
|---|----------|----------|-----------------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|------|
| X | 50.2     | 372.49   | 35.00                       | 18.44                    | 0.06                     | 5.10     | 1.55                  | 0.19                  | 1.01 |
| Y | 58.2     | 434.14   | 35.52                       | 23.57                    | 0.33                     | 5.10     | 1.00                  | 0.32                  | 1.01 |
| Z | 46.8     | 350.57   | 35.76                       | 12.03                    | 0.37                     | 5.09     | 0.94                  | 0.20                  | 1.01 |

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 9.2        |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

### 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) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.31   | 10.31   | 10.31   | 0.49               | 0.80                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.05   | 10.05   | 10.05   | 0.45               | 0.85                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.90    | 9.90    | 9.90    | 0.44               | 0.80                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.41    | 8.41    | 8.41    | 0.27               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.22    | 8.22    | 8.22    | 0.34               | 0.81                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.11    | 8.11    | 8.11    | 0.31               | 0.80                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.81    | 7.81    | 7.81    | 0.29               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.57    | 7.57    | 7.57    | 0.34               | 0.90                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.31    | 7.31    | 7.31    | 0.26               | 1.10                    | ± 12.0 %  |
| 3500                 | 37.9                               | 2.91                            | 6.66    | 6.66    | 6.66    | 0.40               | 1.35                    | ± 14.0 %  |
| 3700                 | 37.7                               | 3.12                            | 6.58    | 6.58    | 6.58    | 0.40               | 1.35                    | ± 14.0 %  |
| 3900                 | 37.5                               | 3.32                            | 6.43    | 6.43    | 6.43    | 0.40               | 1.60                    | ± 14.0 %  |
| 4100                 | 37.2                               | 3.53                            | 6.15    | 6.15    | 6.15    | 0.40               | 1.60                    | ± 14.0 %  |
| 4400                 | 36.9                               | 3.84                            | 6.13    | 6.13    | 6.13    | 0.35               | 1.80                    | ± 14.0 %  |
| 4600                 | 36.7                               | 4.04                            | 5.87    | 5.87    | 5.87    | 0.35               | 1.80                    | ± 14.0 %  |
| 4800                 | 36.4                               | 4.25                            | 5.71    | 5.71    | 5.71    | 0.40               | 1.80                    | ± 14.0 %  |
| 4950                 | 36.3                               | 4.40                            | 5.47    | 5.47    | 5.47    | 0.40               | 1.80                    | ± 14.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.24    | 5.24    | 5.24    | 0.40               | 1.80                    | ± 14.0 %  |
| 5600                 | 35.5                               | 5.07                            | 4.65    | 4.65    | 4.65    | 0.40               | 1.80                    | ± 14.0 %  |
| 5750                 | 35.4                               | 5.22                            | 4.69    | 4.69    | 4.69    | 0.40               | 1.80                    | ± 14.0 %  |

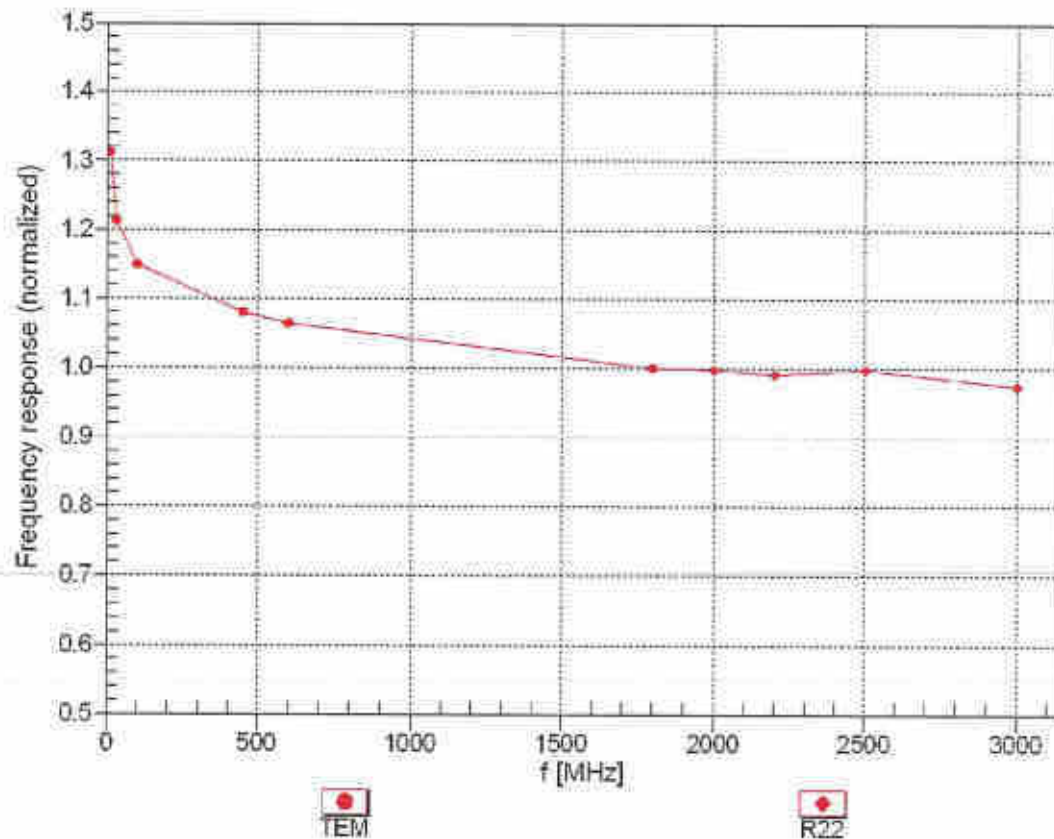
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. 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 frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

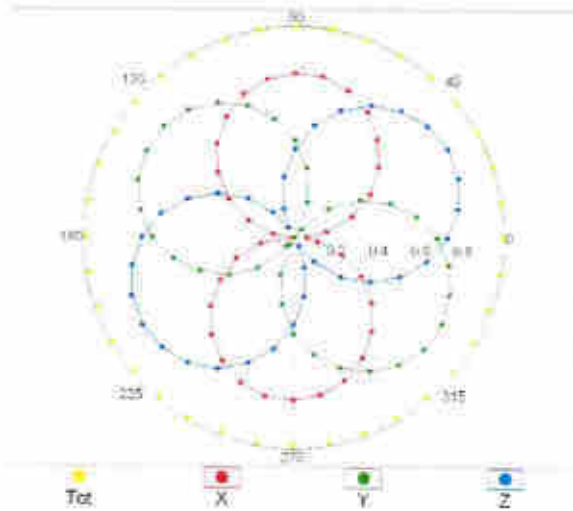
(TEM-Cell:ifi110 EXX, Waveguide: R22)



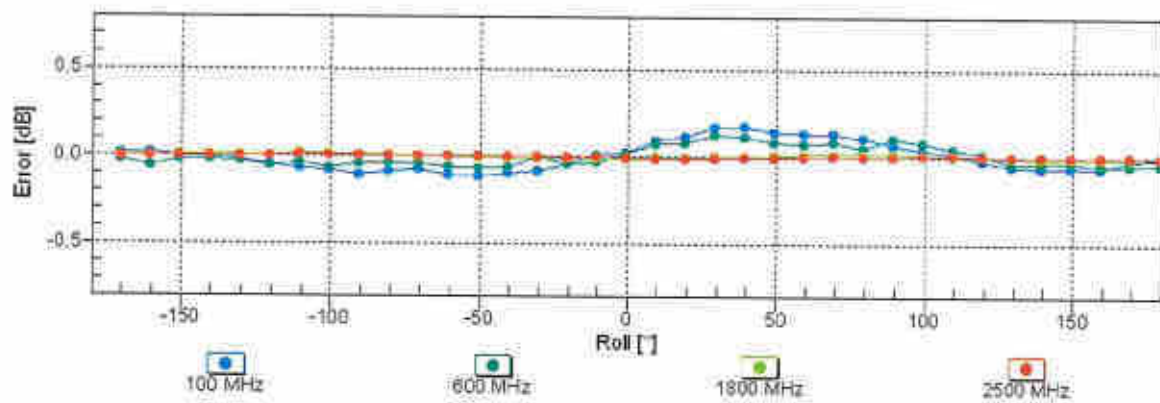
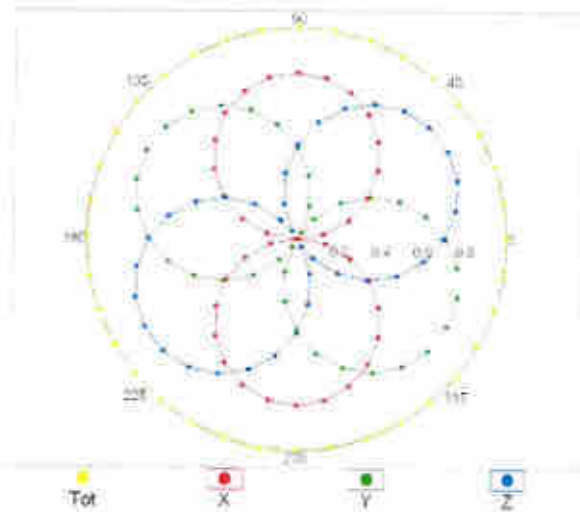
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz,TEM

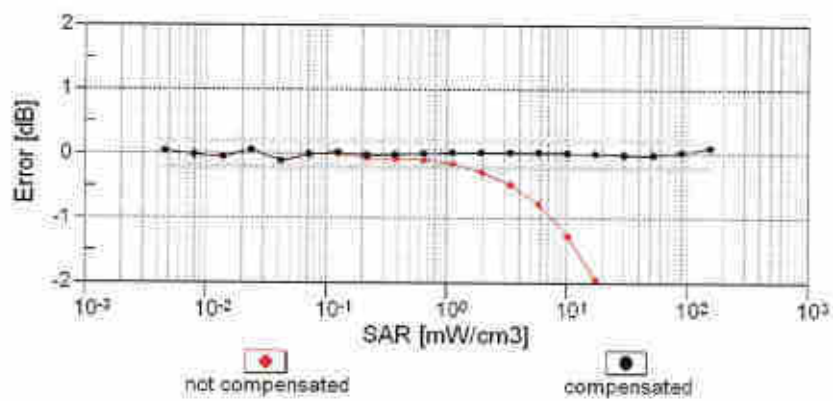
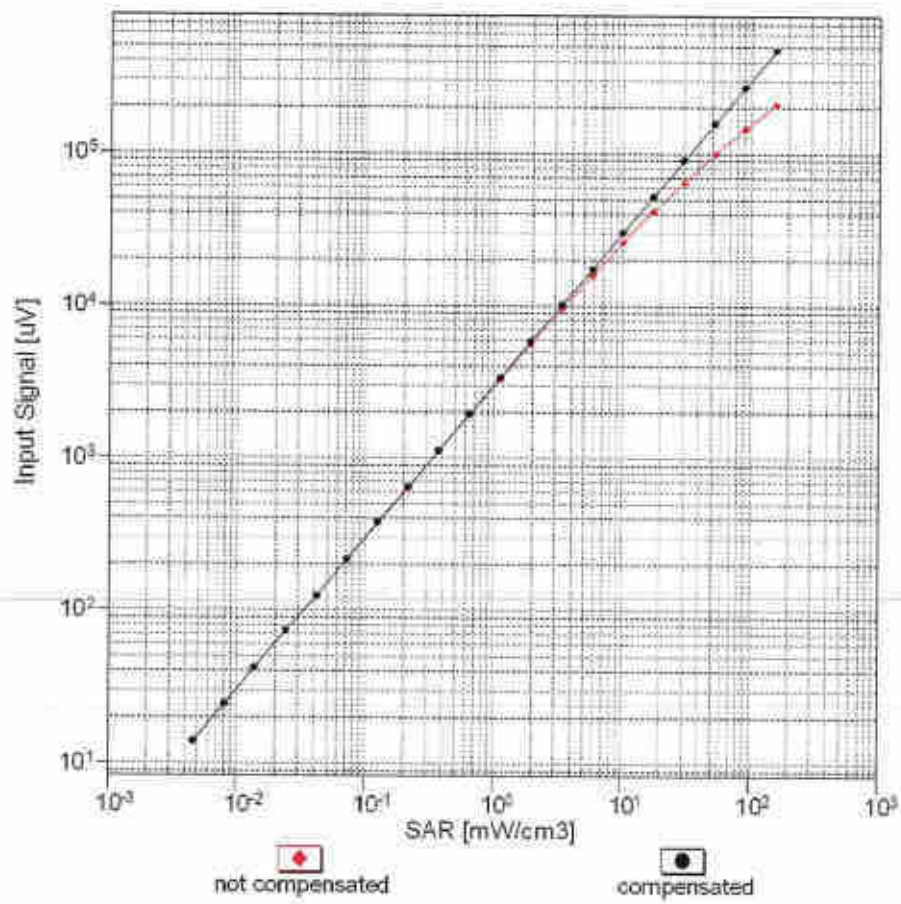


f=1800 MHz,R22



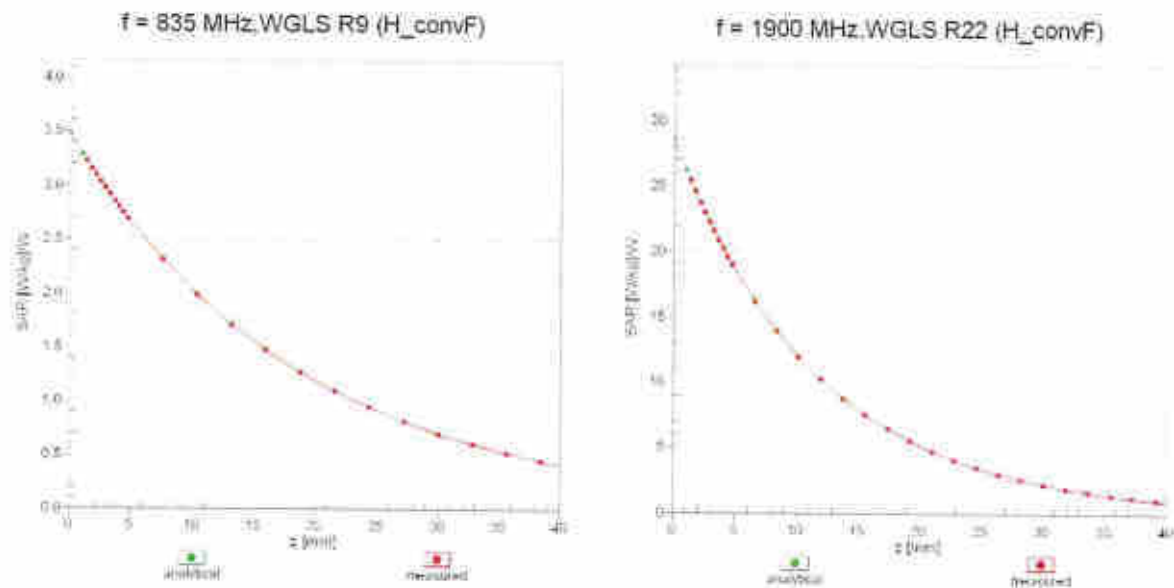
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# **Dynamic Range $f(\text{SAR}_{\text{head}})$** (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$ )



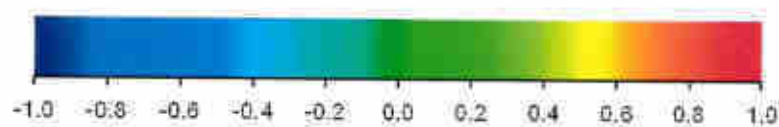
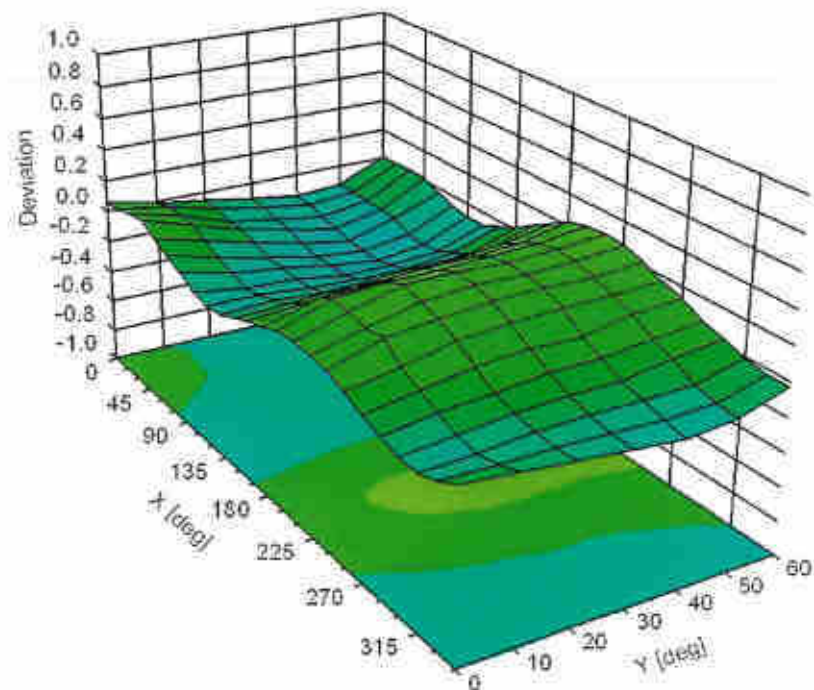
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi$ ,  $\theta$ ),  $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment:  $\pm 2.6\%$  ( $k=2$ )

## Appendix: Modulation Calibration Parameters

| UID   | Rev | Communication System Name                           | Group     | PAR (dB) | Unc <sup>E</sup> (k=2) |
|-------|-----|-----------------------------------------------------|-----------|----------|------------------------|
| 0     |     | CW                                                  | CW        | 0.00     | ± 4.7 %                |
| 10010 | CAA | SAR Validation (Square, 100ms, 10ms)                | Test      | 10.00    | ± 9.6 %                |
| 10011 | CAB | UMTS-FDD (WCDMA)                                    | WCDMA     | 2.91     | ± 9.6 %                |
| 10012 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)            | WLAN      | 1.87     | ± 9.6 %                |
| 10013 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)       | WLAN      | 9.46     | ± 9.6 %                |
| 10021 | DAC | GSM-FDD (TDMA, GMSK)                                | GSM       | 9.39     | ± 9.6 %                |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0)                         | GSM       | 9.57     | ± 9.6 %                |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                       | GSM       | 6.56     | ± 9.6 %                |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                         | GSM       | 12.62    | ± 9.6 %                |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                       | GSM       | 9.55     | ± 9.6 %                |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)                     | GSM       | 4.80     | ± 9.6 %                |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)                   | GSM       | 3.55     | ± 9.6 %                |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)                     | GSM       | 7.78     | ± 9.6 %                |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)                 | Bluetooth | 5.30     | ± 9.6 %                |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)                 | Bluetooth | 1.87     | ± 9.6 %                |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | Bluetooth | 1.16     | ± 9.6 %                |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | Bluetooth | 7.74     | ± 9.6 %                |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | Bluetooth | 4.53     | ± 9.6 %                |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | Bluetooth | 3.83     | ± 9.6 %                |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | Bluetooth | 8.01     | ± 9.6 %                |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | Bluetooth | 4.77     | ± 9.6 %                |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | Bluetooth | 4.10     | ± 9.6 %                |
| 10039 | CAB | CDMA2000 (1xRTT, RC1)                               | CDMA2000  | 4.57     | ± 9.6 %                |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS      | 7.78     | ± 9.6 %                |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | AMPS      | 0.00     | ± 9.6 %                |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | DECT      | 13.80    | ± 9.6 %                |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | DECT      | 10.79    | ± 9.6 %                |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | TD-SCDMA  | 11.01    | ± 9.6 %                |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | GSM       | 6.52     | ± 9.6 %                |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | WLAN      | 2.12     | ± 9.6 %                |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | WLAN      | 2.83     | ± 9.6 %                |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)           | WLAN      | 3.60     | ± 9.6 %                |
| 10062 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)            | WLAN      | 8.68     | ± 9.6 %                |
| 10063 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)            | WLAN      | 8.63     | ± 9.6 %                |
| 10064 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)           | WLAN      | 9.09     | ± 9.6 %                |
| 10065 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)           | WLAN      | 9.00     | ± 9.6 %                |
| 10066 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)           | WLAN      | 9.38     | ± 9.6 %                |
| 10067 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)           | WLAN      | 10.12    | ± 9.6 %                |
| 10068 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)           | WLAN      | 10.24    | ± 9.6 %                |
| 10069 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)           | WLAN      | 10.56    | ± 9.6 %                |
| 10071 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)       | WLAN      | 9.83     | ± 9.6 %                |
| 10072 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)      | WLAN      | 9.62     | ± 9.6 %                |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)      | WLAN      | 9.94     | ± 9.6 %                |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)      | WLAN      | 10.30    | ± 9.6 %                |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)      | WLAN      | 10.77    | ± 9.6 %                |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)      | WLAN      | 10.94    | ± 9.6 %                |
| 10077 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)      | WLAN      | 11.00    | ± 9.6 %                |
| 10081 | CAB | CDMA2000 (1xRTT, RC3)                               | CDMA2000  | 3.97     | ± 9.6 %                |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS      | 4.77     | ± 9.6 %                |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | GSM       | 6.56     | ± 9.6 %                |
| 10097 | CAB | UMTS-FDD (HSDPA)                                    | WCDMA     | 3.98     | ± 9.6 %                |
| 10098 | CAB | UMTS-FDD (HSUPA, Subtest 2)                         | WCDMA     | 3.98     | ± 9.6 %                |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | GSM       | 9.55     | ± 9.6 %                |
| 10100 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | LTE-FDD   | 5.67     | ± 9.6 %                |
| 10101 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | LTE-FDD   | 6.42     | ± 9.6 %                |
| 10102 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | LTE-FDD   | 6.60     | ± 9.6 %                |
| 10103 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | LTE-TDD   | 9.29     | ± 9.6 %                |
| 10104 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | LTE-TDD   | 9.97     | ± 9.6 %                |
| 10105 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | LTE-TDD   | 10.01    | ± 9.6 %                |
| 10108 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | LTE-FDD   | 5.80     | ± 9.6 %                |

|       |     |                                                |         |       |         |
|-------|-----|------------------------------------------------|---------|-------|---------|
| 10109 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)     | LTE-FDD | 6.43  | ± 9.6 % |
| 10110 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)        | LTE-FDD | 5.75  | ± 9.6 % |
| 10111 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)      | LTE-FDD | 6.44  | ± 9.6 % |
| 10112 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | LTE-FDD | 6.59  | ± 9.6 % |
| 10113 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | LTE-FDD | 6.62  | ± 9.6 % |
| 10114 | CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | WLAN    | 8.10  | ± 9.6 % |
| 10115 | CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | WLAN    | 8.46  | ± 9.6 % |
| 10116 | CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN    | 8.15  | ± 9.6 % |
| 10117 | CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | WLAN    | 8.07  | ± 9.6 % |
| 10118 | CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | WLAN    | 8.59  | ± 9.6 % |
| 10119 | CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | WLAN    | 8.13  | ± 9.6 % |
| 10140 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | LTE-FDD | 6.49  | ± 9.6 % |
| 10141 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | LTE-FDD | 6.53  | ± 9.6 % |
| 10142 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | LTE-FDD | 5.73  | ± 9.6 % |
| 10143 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | LTE-FDD | 6.35  | ± 9.6 % |
| 10144 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | LTE-FDD | 6.65  | ± 9.6 % |
| 10145 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | LTE-FDD | 5.76  | ± 9.6 % |
| 10146 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | LTE-FDD | 6.41  | ± 9.6 % |
| 10147 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | LTE-FDD | 6.72  | ± 9.6 % |
| 10149 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-FDD | 6.42  | ± 9.6 % |
| 10150 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-FDD | 6.60  | ± 9.6 % |
| 10151 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)        | LTE-TDD | 9.28  | ± 9.6 % |
| 10152 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-TDD | 9.92  | ± 9.6 % |
| 10153 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-TDD | 10.05 | ± 9.6 % |
| 10154 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)        | LTE-FDD | 5.75  | ± 9.6 % |
| 10155 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)      | LTE-FDD | 6.43  | ± 9.6 % |
| 10156 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)         | LTE-FDD | 5.79  | ± 9.6 % |
| 10157 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)       | LTE-FDD | 6.49  | ± 9.6 % |
| 10158 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)      | LTE-FDD | 6.62  | ± 9.6 % |
| 10159 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)       | LTE-FDD | 6.56  | ± 9.6 % |
| 10160 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)        | LTE-FDD | 5.82  | ± 9.6 % |
| 10161 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)      | LTE-FDD | 6.43  | ± 9.6 % |
| 10162 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)      | LTE-FDD | 6.58  | ± 9.6 % |
| 10166 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)       | LTE-FDD | 5.46  | ± 9.6 % |
| 10167 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)     | LTE-FDD | 6.21  | ± 9.6 % |
| 10168 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)     | LTE-FDD | 6.79  | ± 9.6 % |
| 10169 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-FDD | 5.73  | ± 9.6 % |
| 10170 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-FDD | 6.52  | ± 9.6 % |
| 10171 | AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-FDD | 6.49  | ± 9.6 % |
| 10172 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-TDD | 9.21  | ± 9.6 % |
| 10173 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-TDD | 9.48  | ± 9.6 % |
| 10174 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-TDD | 10.25 | ± 9.6 % |
| 10175 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)          | LTE-FDD | 5.72  | ± 9.6 % |
| 10176 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)        | LTE-FDD | 6.52  | ± 9.6 % |
| 10177 | CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)           | LTE-FDD | 5.73  | ± 9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         | LTE-FDD | 6.52  | ± 9.6 % |
| 10179 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)        | LTE-FDD | 6.50  | ± 9.6 % |
| 10180 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         | LTE-FDD | 6.50  | ± 9.6 % |
| 10181 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)          | LTE-FDD | 5.72  | ± 9.6 % |
| 10182 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)        | LTE-FDD | 6.52  | ± 9.6 % |
| 10183 | AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)        | LTE-FDD | 6.50  | ± 9.6 % |
| 10184 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)           | LTE-FDD | 5.73  | ± 9.6 % |
| 10185 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         | LTE-FDD | 6.51  | ± 9.6 % |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         | LTE-FDD | 6.50  | ± 9.6 % |
| 10187 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         | LTE-FDD | 5.73  | ± 9.6 % |
| 10188 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)       | LTE-FDD | 6.52  | ± 9.6 % |
| 10189 | AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)       | LTE-FDD | 6.50  | ± 9.6 % |
| 10193 | CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)   | WLAN    | 8.09  | ± 9.6 % |
| 10194 | CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)  | WLAN    | 8.12  | ± 9.6 % |
| 10195 | CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)  | WLAN    | 8.21  | ± 9.6 % |
| 10196 | CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)        | WLAN    | 8.10  | ± 9.6 % |
| 10197 | CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)       | WLAN    | 8.13  | ± 9.6 % |
| 10198 | CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)       | WLAN    | 8.27  | ± 9.6 % |
| 10219 | CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)        | WLAN    | 8.03  | ± 9.6 % |

|       |     |                                             |          |       |         |
|-------|-----|---------------------------------------------|----------|-------|---------|
| 10220 | CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)  | WLAN     | 8.13  | ± 9.6 % |
| 10221 | CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)  | WLAN     | 8.27  | ± 9.6 % |
| 10222 | CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)      | WLAN     | 8.06  | ± 9.6 % |
| 10223 | CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)    | WLAN     | 8.48  | ± 9.6 % |
| 10224 | CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)   | WLAN     | 8.08  | ± 9.6 % |
| 10225 | CAB | UMTS-FDD (HSPA+)                            | WCDMA    | 5.97  | ± 9.6 % |
| 10226 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)    | LTE-TDD  | 9.49  | ± 9.6 % |
| 10227 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)    | LTE-TDD  | 10.26 | ± 9.6 % |
| 10228 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)      | LTE-TDD  | 9.22  | ± 9.6 % |
| 10229 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)      | LTE-TDD  | 9.48  | ± 9.6 % |
| 10230 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)      | LTE-TDD  | 10.25 | ± 9.6 % |
| 10231 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)        | LTE-TDD  | 9.19  | ± 9.6 % |
| 10232 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)      | LTE-TDD  | 9.48  | ± 9.6 % |
| 10233 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)      | LTE-TDD  | 10.25 | ± 9.6 % |
| 10234 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)        | LTE-TDD  | 9.21  | ± 9.6 % |
| 10235 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)     | LTE-TDD  | 9.48  | ± 9.6 % |
| 10236 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)     | LTE-TDD  | 10.25 | ± 9.6 % |
| 10237 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       | LTE-TDD  | 9.21  | ± 9.6 % |
| 10238 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)     | LTE-TDD  | 9.48  | ± 9.6 % |
| 10239 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)     | LTE-TDD  | 10.25 | ± 9.6 % |
| 10240 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)       | LTE-TDD  | 9.21  | ± 9.6 % |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)  | LTE-TDD  | 9.82  | ± 9.6 % |
| 10242 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)  | LTE-TDD  | 9.86  | ± 9.6 % |
| 10243 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)    | LTE-TDD  | 9.46  | ± 9.6 % |
| 10244 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)    | LTE-TDD  | 10.06 | ± 9.6 % |
| 10245 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)    | LTE-TDD  | 10.06 | ± 9.6 % |
| 10246 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)      | LTE-TDD  | 9.30  | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)    | LTE-TDD  | 9.91  | ± 9.6 % |
| 10248 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)    | LTE-TDD  | 10.09 | ± 9.6 % |
| 10249 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)      | LTE-TDD  | 9.29  | ± 9.6 % |
| 10250 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   | LTE-TDD  | 9.81  | ± 9.6 % |
| 10251 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   | LTE-TDD  | 10.17 | ± 9.6 % |
| 10252 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)     | LTE-TDD  | 9.24  | ± 9.6 % |
| 10253 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   | LTE-TDD  | 9.90  | ± 9.6 % |
| 10254 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   | LTE-TDD  | 10.14 | ± 9.6 % |
| 10255 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | LTE-TDD  | 9.20  | ± 9.6 % |
| 10256 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD  | 9.96  | ± 9.6 % |
| 10257 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD  | 10.08 | ± 9.6 % |
| 10258 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | LTE-TDD  | 9.34  | ± 9.6 % |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | LTE-TDD  | 9.98  | ± 9.6 % |
| 10260 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | LTE-TDD  | 9.97  | ± 9.6 % |
| 10261 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | LTE-TDD  | 9.24  | ± 9.6 % |
| 10262 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | LTE-TDD  | 9.83  | ± 9.6 % |
| 10263 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | LTE-TDD  | 10.16 | ± 9.6 % |
| 10264 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | LTE-TDD  | 9.23  | ± 9.6 % |
| 10265 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | LTE-TDD  | 9.92  | ± 9.6 % |
| 10266 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | LTE-TDD  | 10.07 | ± 9.6 % |
| 10267 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | LTE-TDD  | 9.30  | ± 9.6 % |
| 10268 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | LTE-TDD  | 10.06 | ± 9.6 % |
| 10269 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | LTE-TDD  | 10.13 | ± 9.6 % |
| 10270 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | LTE-TDD  | 9.58  | ± 9.6 % |
| 10274 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   | WCDMA    | 4.87  | ± 9.6 % |
| 10275 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)    | WCDMA    | 3.96  | ± 9.6 % |
| 10277 | CAA | PHS (QPSK)                                  | PHS      | 11.81 | ± 9.6 % |
| 10278 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)          | PHS      | 11.81 | ± 9.6 % |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)         | PHS      | 12.18 | ± 9.6 % |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate              | CDMA2000 | 3.91  | ± 9.6 % |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate              | CDMA2000 | 3.46  | ± 9.6 % |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate              | CDMA2000 | 3.39  | ± 9.6 % |
| 10293 | AAB | CDMA2000, RC3, SO3, Full Rate               | CDMA2000 | 3.50  | ± 9.6 % |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.       | CDMA2000 | 12.49 | ± 9.6 % |
| 10297 | AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)     | LTE-FDD  | 5.81  | ± 9.6 % |
| 10298 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)      | LTE-FDD  | 5.72  | ± 9.6 % |
| 10299 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)    | LTE-FDD  | 6.39  | ± 9.6 % |

|       |     |                                                            |          |       |         |
|-------|-----|------------------------------------------------------------|----------|-------|---------|
| 10300 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                   | LTE-FDD  | 6.60  | ± 9.6 % |
| 10301 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)         | WiMAX    | 12.03 | ± 9.6 % |
| 10302 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)  | WiMAX    | 12.57 | ± 9.6 % |
| 10303 | AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)        | WiMAX    | 12.52 | ± 9.6 % |
| 10304 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)        | WiMAX    | 11.86 | ± 9.6 % |
| 10305 | AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)       | WiMAX    | 15.24 | ± 9.6 % |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)       | WiMAX    | 14.67 | ± 9.6 % |
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)        | WiMAX    | 14.49 | ± 9.6 % |
| 10308 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)       | WiMAX    | 14.46 | ± 9.6 % |
| 10309 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)    | WiMAX    | 14.58 | ± 9.6 % |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)     | WiMAX    | 14.57 | ± 9.6 % |
| 10311 | AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                   | LTE-FDD  | 6.06  | ± 9.6 % |
| 10313 | AAA | IDEN 1:3                                                   | IDEN     | 10.51 | ± 9.6 % |
| 10314 | AAA | IDEN 1:6                                                   | IDEN     | 13.48 | ± 9.6 % |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)          | WLAN     | 1.71  | ± 9.6 % |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)      | WLAN     | 8.36  | ± 9.6 % |
| 10317 | AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)            | WLAN     | 8.36  | ± 9.6 % |
| 10352 | AAA | Pulse Waveform (200Hz, 10%)                                | Generic  | 10.00 | ± 9.6 % |
| 10353 | AAA | Pulse Waveform (200Hz, 20%)                                | Generic  | 6.99  | ± 9.6 % |
| 10354 | AAA | Pulse Waveform (200Hz, 40%)                                | Generic  | 3.98  | ± 9.6 % |
| 10355 | AAA | Pulse Waveform (200Hz, 60%)                                | Generic  | 2.22  | ± 9.6 % |
| 10356 | AAA | Pulse Waveform (200Hz, 80%)                                | Generic  | 0.97  | ± 9.6 % |
| 10387 | AAA | QPSK Waveform, 1 MHz                                       | Generic  | 5.10  | ± 9.6 % |
| 10388 | AAA | QPSK Waveform, 10 MHz                                      | Generic  | 5.22  | ± 9.6 % |
| 10396 | AAA | 64-QAM Waveform, 100 kHz                                   | Generic  | 6.27  | ± 9.6 % |
| 10399 | AAA | 64-QAM Waveform, 40 MHz                                    | Generic  | 6.27  | ± 9.6 % |
| 10400 | AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)                | WLAN     | 8.37  | ± 9.6 % |
| 10401 | AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)                | WLAN     | 8.60  | ± 9.6 % |
| 10402 | AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)                | WLAN     | 8.53  | ± 9.6 % |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0)                                 | CDMA2000 | 3.76  | ± 9.6 % |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A)                                 | CDMA2000 | 3.77  | ± 9.6 % |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                       | CDMA2000 | 5.22  | ± 9.6 % |
| 10410 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)  | LTE-TDD  | 7.82  | ± 9.6 % |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40MHz                                   | Generic  | 8.54  | ± 9.6 % |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)          | WLAN     | 1.54  | ± 9.6 % |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)      | WLAN     | 8.23  | ± 9.6 % |
| 10417 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)          | WLAN     | 8.23  | ± 9.6 % |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)  | WLAN     | 8.14  | ± 9.6 % |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short) | WLAN     | 8.19  | ± 9.6 % |
| 10422 | AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)               | WLAN     | 8.32  | ± 9.6 % |
| 10423 | AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)            | WLAN     | 8.47  | ± 9.6 % |
| 10424 | AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)            | WLAN     | 8.40  | ± 9.6 % |
| 10425 | AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                | WLAN     | 8.41  | ± 9.6 % |
| 10426 | AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)              | WLAN     | 8.45  | ± 9.6 % |
| 10427 | AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)             | WLAN     | 8.41  | ± 9.6 % |
| 10430 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                           | LTE-FDD  | 8.28  | ± 9.6 % |
| 10431 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                          | LTE-FDD  | 8.38  | ± 9.6 % |
| 10432 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                          | LTE-FDD  | 8.34  | ± 9.6 % |
| 10433 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                          | LTE-FDD  | 8.34  | ± 9.6 % |
| 10434 | AAA | W-CDMA (BS Test Model 1, 64 DPCH)                          | WCDMA    | 8.60  | ± 9.6 % |
| 10435 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)              | LTE-TDD  | 7.82  | ± 9.6 % |
| 10447 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)             | LTE-FDD  | 7.56  | ± 9.6 % |
| 10448 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.53  | ± 9.6 % |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.51  | ± 9.6 % |
| 10450 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.48  | ± 9.6 % |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)            | WCDMA    | 7.59  | ± 9.6 % |
| 10453 | AAD | Validation (Square, 10ms, 1ms)                             | Test     | 10.00 | ± 9.6 % |
| 10456 | AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)               | WLAN     | 8.63  | ± 9.6 % |
| 10457 | AAA | UMTS-FDD (DC-HSDPA)                                        | WCDMA    | 6.62  | ± 9.6 % |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                     | CDMA2000 | 6.55  | ± 9.6 % |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                     | CDMA2000 | 8.25  | ± 9.6 % |
| 10460 | AAA | UMTS-FDD (WCDMA, AMR)                                      | WCDMA    | 2.39  | ± 9.6 % |
| 10461 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)             | LTE-TDD  | 7.82  | ± 9.6 % |
| 10462 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)           | LTE-TDD  | 8.30  | ± 9.6 % |

|       |     |                                                     |         |      |        |
|-------|-----|-----------------------------------------------------|---------|------|--------|
| 10463 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.56 | ±9.6 % |
| 10464 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)        | LTE-TDD | 7.82 | ±9.6 % |
| 10465 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)      | LTE-TDD | 8.32 | ±9.6 % |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)      | LTE-TDD | 8.57 | ±9.6 % |
| 10467 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)        | LTE-TDD | 7.82 | ±9.6 % |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)      | LTE-TDD | 8.32 | ±9.6 % |
| 10469 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)      | LTE-TDD | 8.56 | ±9.6 % |
| 10470 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)       | LTE-TDD | 7.82 | ±9.6 % |
| 10471 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)     | LTE-TDD | 8.32 | ±9.6 % |
| 10472 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)     | LTE-TDD | 8.57 | ±9.6 % |
| 10473 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)       | LTE-TDD | 7.82 | ±9.6 % |
| 10474 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)     | LTE-TDD | 8.32 | ±9.6 % |
| 10475 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)     | LTE-TDD | 8.57 | ±9.6 % |
| 10477 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)     | LTE-TDD | 8.32 | ±9.6 % |
| 10478 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)     | LTE-TDD | 8.57 | ±9.6 % |
| 10479 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)    | LTE-TDD | 7.74 | ±9.6 % |
| 10480 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.18 | ±9.6 % |
| 10481 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.45 | ±9.6 % |
| 10482 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)      | LTE-TDD | 7.71 | ±9.6 % |
| 10483 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)       | LTE-TDD | 8.39 | ±9.6 % |
| 10484 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.47 | ±9.6 % |
| 10485 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)      | LTE-TDD | 7.59 | ±9.6 % |
| 10486 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)    | LTE-TDD | 8.38 | ±9.6 % |
| 10487 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.60 | ±9.6 % |
| 10488 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)     | LTE-TDD | 7.70 | ±9.6 % |
| 10489 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.31 | ±9.6 % |
| 10490 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.54 | ±9.6 % |
| 10491 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)     | LTE-TDD | 7.74 | ±9.6 % |
| 10492 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.41 | ±9.6 % |
| 10493 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.55 | ±9.6 % |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)     | LTE-TDD | 7.74 | ±9.6 % |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.37 | ±9.6 % |
| 10496 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.54 | ±9.6 % |
| 10497 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)   | LTE-TDD | 7.67 | ±9.6 % |
| 10498 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ±9.6 % |
| 10499 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.68 | ±9.6 % |
| 10500 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)     | LTE-TDD | 7.67 | ±9.6 % |
| 10501 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.44 | ±9.6 % |
| 10502 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.52 | ±9.6 % |
| 10503 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)     | LTE-TDD | 7.72 | ±9.6 % |
| 10504 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.31 | ±9.6 % |
| 10505 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.54 | ±9.6 % |
| 10506 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)    | LTE-TDD | 7.74 | ±9.6 % |
| 10507 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.36 | ±9.6 % |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.55 | ±9.6 % |
| 10509 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)    | LTE-TDD | 7.99 | ±9.6 % |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.49 | ±9.6 % |
| 10511 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.51 | ±9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)    | LTE-TDD | 7.74 | ±9.6 % |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.42 | ±9.6 % |
| 10514 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.45 | ±9.6 % |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)   | WLAN    | 1.58 | ±9.6 % |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN    | 1.57 | ±9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)  | WLAN    | 1.58 | ±9.6 % |
| 10518 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)   | WLAN    | 8.23 | ±9.6 % |
| 10519 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)  | WLAN    | 8.39 | ±9.6 % |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)  | WLAN    | 8.12 | ±9.6 % |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)  | WLAN    | 7.97 | ±9.6 % |
| 10522 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)  | WLAN    | 8.45 | ±9.6 % |
| 10523 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)  | WLAN    | 8.08 | ±9.6 % |
| 10524 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)  | WLAN    | 8.27 | ±9.6 % |
| 10525 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)           | WLAN    | 8.36 | ±9.6 % |
| 10526 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)           | WLAN    | 8.42 | ±9.6 % |
| 10527 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)           | WLAN    | 8.21 | ±9.6 % |

|       |     |                                                         |      |      |         |
|-------|-----|---------------------------------------------------------|------|------|---------|
| 10528 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)               | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)               | WLAN | 8.36 | ± 9.6 % |
| 10531 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)               | WLAN | 8.43 | ± 9.6 % |
| 10532 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)               | WLAN | 8.29 | ± 9.6 % |
| 10533 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)               | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)               | WLAN | 8.45 | ± 9.6 % |
| 10535 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)               | WLAN | 8.45 | ± 9.6 % |
| 10536 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)               | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)               | WLAN | 8.44 | ± 9.6 % |
| 10538 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)               | WLAN | 8.54 | ± 9.6 % |
| 10540 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)               | WLAN | 8.39 | ± 9.6 % |
| 10541 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)               | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)               | WLAN | 8.65 | ± 9.6 % |
| 10543 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)               | WLAN | 8.65 | ± 9.6 % |
| 10544 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)               | WLAN | 8.47 | ± 9.6 % |
| 10545 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)               | WLAN | 8.55 | ± 9.6 % |
| 10546 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)               | WLAN | 8.35 | ± 9.6 % |
| 10547 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)               | WLAN | 8.49 | ± 9.6 % |
| 10548 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)               | WLAN | 8.37 | ± 9.6 % |
| 10550 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)               | WLAN | 8.38 | ± 9.6 % |
| 10551 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)               | WLAN | 8.50 | ± 9.6 % |
| 10552 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)               | WLAN | 8.42 | ± 9.6 % |
| 10553 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)               | WLAN | 8.45 | ± 9.6 % |
| 10554 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)              | WLAN | 8.48 | ± 9.6 % |
| 10555 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)              | WLAN | 8.47 | ± 9.6 % |
| 10556 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)              | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)              | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)              | WLAN | 8.61 | ± 9.6 % |
| 10560 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)              | WLAN | 8.73 | ± 9.6 % |
| 10561 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)              | WLAN | 8.56 | ± 9.6 % |
| 10562 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)              | WLAN | 8.69 | ± 9.6 % |
| 10563 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)              | WLAN | 8.77 | ± 9.6 % |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ± 9.6 % |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)       | WLAN | 1.99 | ± 9.6 % |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)       | WLAN | 1.99 | ± 9.6 % |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)     | WLAN | 1.98 | ± 9.6 % |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)      | WLAN | 1.98 | ± 9.6 % |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)  | WLAN | 8.59 | ± 9.6 % |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)  | WLAN | 8.60 | ± 9.6 % |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10583 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)       | WLAN | 8.59 | ± 9.6 % |
| 10584 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)       | WLAN | 8.60 | ± 9.6 % |
| 10585 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)      | WLAN | 8.70 | ± 9.6 % |
| 10586 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)      | WLAN | 8.49 | ± 9.6 % |
| 10587 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)      | WLAN | 8.36 | ± 9.6 % |
| 10588 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)      | WLAN | 8.76 | ± 9.6 % |
| 10589 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)      | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)      | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)           | WLAN | 8.63 | ± 9.6 % |
| 10592 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)           | WLAN | 8.79 | ± 9.6 % |
| 10593 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)           | WLAN | 8.64 | ± 9.6 % |
| 10594 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)           | WLAN | 8.74 | ± 9.6 % |
| 10595 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)           | WLAN | 8.74 | ± 9.6 % |

|       |     |                                                   |           |       |         |
|-------|-----|---------------------------------------------------|-----------|-------|---------|
| 10596 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)     | WLAN      | 8.71  | ± 9.6 % |
| 10597 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)     | WLAN      | 8.72  | ± 9.6 % |
| 10598 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)     | WLAN      | 8.50  | ± 9.6 % |
| 10599 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)     | WLAN      | 8.79  | ± 9.6 % |
| 10600 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)     | WLAN      | 8.88  | ± 9.6 % |
| 10601 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)     | WLAN      | 8.82  | ± 9.6 % |
| 10602 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)     | WLAN      | 8.94  | ± 9.6 % |
| 10603 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)     | WLAN      | 9.03  | ± 9.6 % |
| 10604 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)     | WLAN      | 8.76  | ± 9.6 % |
| 10605 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)     | WLAN      | 8.97  | ± 9.6 % |
| 10606 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)     | WLAN      | 8.82  | ± 9.6 % |
| 10607 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)         | WLAN      | 8.64  | ± 9.6 % |
| 10608 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)         | WLAN      | 8.77  | ± 9.6 % |
| 10609 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)         | WLAN      | 8.57  | ± 9.6 % |
| 10610 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)         | WLAN      | 8.78  | ± 9.6 % |
| 10611 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)         | WLAN      | 8.70  | ± 9.6 % |
| 10612 | AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)         | WLAN      | 8.77  | ± 9.6 % |
| 10613 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)         | WLAN      | 8.94  | ± 9.6 % |
| 10614 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)         | WLAN      | 8.59  | ± 9.6 % |
| 10615 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)         | WLAN      | 8.82  | ± 9.6 % |
| 10616 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)         | WLAN      | 8.82  | ± 9.6 % |
| 10617 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)         | WLAN      | 8.81  | ± 9.6 % |
| 10618 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)         | WLAN      | 8.58  | ± 9.6 % |
| 10619 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)         | WLAN      | 8.86  | ± 9.6 % |
| 10620 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)         | WLAN      | 8.87  | ± 9.6 % |
| 10621 | AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)         | WLAN      | 8.77  | ± 9.6 % |
| 10622 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)         | WLAN      | 8.68  | ± 9.6 % |
| 10623 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)         | WLAN      | 8.82  | ± 9.6 % |
| 10624 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)         | WLAN      | 8.96  | ± 9.6 % |
| 10625 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)         | WLAN      | 8.96  | ± 9.6 % |
| 10626 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)         | WLAN      | 8.83  | ± 9.6 % |
| 10627 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)         | WLAN      | 8.88  | ± 9.6 % |
| 10628 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)         | WLAN      | 8.71  | ± 9.6 % |
| 10629 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)         | WLAN      | 8.85  | ± 9.6 % |
| 10630 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)         | WLAN      | 8.72  | ± 9.6 % |
| 10631 | AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)         | WLAN      | 8.81  | ± 9.6 % |
| 10632 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)         | WLAN      | 8.74  | ± 9.6 % |
| 10633 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)         | WLAN      | 8.83  | ± 9.6 % |
| 10634 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)         | WLAN      | 8.80  | ± 9.6 % |
| 10635 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)         | WLAN      | 8.81  | ± 9.6 % |
| 10636 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)        | WLAN      | 8.83  | ± 9.6 % |
| 10637 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)        | WLAN      | 8.79  | ± 9.6 % |
| 10638 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)        | WLAN      | 8.86  | ± 9.6 % |
| 10639 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)        | WLAN      | 8.85  | ± 9.6 % |
| 10640 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)        | WLAN      | 8.98  | ± 9.6 % |
| 10641 | AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)        | WLAN      | 9.06  | ± 9.6 % |
| 10642 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)        | WLAN      | 9.06  | ± 9.6 % |
| 10643 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)        | WLAN      | 8.89  | ± 9.6 % |
| 10644 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)        | WLAN      | 9.05  | ± 9.6 % |
| 10645 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)        | WLAN      | 9.11  | ± 9.6 % |
| 10646 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)  | LTE-TDD   | 11.96 | ± 9.6 % |
| 10647 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD   | 11.96 | ± 9.6 % |
| 10648 | AAA | CDMA2000 (1x Advanced)                            | CDMA2000  | 3.45  | ± 9.6 % |
| 10652 | AAE | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)    | LTE-TDD   | 6.91  | ± 9.6 % |
| 10653 | AAE | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   | LTE-TDD   | 7.42  | ± 9.6 % |
| 10654 | AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   | LTE-TDD   | 6.96  | ± 9.6 % |
| 10655 | AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   | LTE-TDD   | 7.21  | ± 9.6 % |
| 10658 | AAA | Pulse Waveform (200Hz, 10%)                       | Test      | 10.00 | ± 9.6 % |
| 10659 | AAA | Pulse Waveform (200Hz, 20%)                       | Test      | 6.99  | ± 9.6 % |
| 10660 | AAA | Pulse Waveform (200Hz, 40%)                       | Test      | 3.98  | ± 9.6 % |
| 10661 | AAA | Pulse Waveform (200Hz, 60%)                       | Test      | 2.22  | ± 9.6 % |
| 10662 | AAA | Pulse Waveform (200Hz, 80%)                       | Test      | 0.97  | ± 9.6 % |
| 10670 | AAA | Bluetooth Low Energy                              | Bluetooth | 2.19  | ± 9.6 % |
| 10671 | AAA | IEEE 802.11ax (20MHz, MCS0, 90pc dc)              | WLAN      | 9.09  | ± 9.6 % |

|       |     |                                       |      |      |         |
|-------|-----|---------------------------------------|------|------|---------|
| 10672 | AAA | IEEE 802.11ax (20MHz, MCS1, 90pc dc)  | WLAN | 8.57 | ± 9.6 % |
| 10673 | AAA | IEEE 802.11ax (20MHz, MCS2, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10674 | AAA | IEEE 802.11ax (20MHz, MCS3, 90pc dc)  | WLAN | 8.74 | ± 9.6 % |
| 10675 | AAA | IEEE 802.11ax (20MHz, MCS4, 90pc dc)  | WLAN | 8.90 | ± 9.6 % |
| 10676 | AAA | IEEE 802.11ax (20MHz, MCS5, 90pc dc)  | WLAN | 8.77 | ± 9.6 % |
| 10677 | AAA | IEEE 802.11ax (20MHz, MCS6, 90pc dc)  | WLAN | 8.73 | ± 9.6 % |
| 10678 | AAA | IEEE 802.11ax (20MHz, MCS7, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10679 | AAA | IEEE 802.11ax (20MHz, MCS8, 90pc dc)  | WLAN | 8.89 | ± 9.6 % |
| 10680 | AAA | IEEE 802.11ax (20MHz, MCS9, 90pc dc)  | WLAN | 8.80 | ± 9.6 % |
| 10681 | AAA | IEEE 802.11ax (20MHz, MCS10, 90pc dc) | WLAN | 8.62 | ± 9.6 % |
| 10682 | AAA | IEEE 802.11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10683 | AAA | IEEE 802.11ax (20MHz, MCS0, 99pc dc)  | WLAN | 8.42 | ± 9.6 % |
| 10684 | AAA | IEEE 802.11ax (20MHz, MCS1, 99pc dc)  | WLAN | 8.26 | ± 9.6 % |
| 10685 | AAA | IEEE 802.11ax (20MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10686 | AAA | IEEE 802.11ax (20MHz, MCS3, 99pc dc)  | WLAN | 8.28 | ± 9.6 % |
| 10687 | AAA | IEEE 802.11ax (20MHz, MCS4, 99pc dc)  | WLAN | 8.45 | ± 9.6 % |
| 10688 | AAA | IEEE 802.11ax (20MHz, MCS5, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10689 | AAA | IEEE 802.11ax (20MHz, MCS6, 99pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10690 | AAA | IEEE 802.11ax (20MHz, MCS7, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10691 | AAA | IEEE 802.11ax (20MHz, MCS8, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10692 | AAA | IEEE 802.11ax (20MHz, MCS9, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10693 | AAA | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10694 | AAA | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10695 | AAA | IEEE 802.11ax (40MHz, MCS0, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10696 | AAA | IEEE 802.11ax (40MHz, MCS1, 90pc dc)  | WLAN | 8.91 | ± 9.6 % |
| 10697 | AAA | IEEE 802.11ax (40MHz, MCS2, 90pc dc)  | WLAN | 8.61 | ± 9.6 % |
| 10698 | AAA | IEEE 802.11ax (40MHz, MCS3, 90pc dc)  | WLAN | 8.89 | ± 9.6 % |
| 10699 | AAA | IEEE 802.11ax (40MHz, MCS4, 90pc dc)  | WLAN | 8.82 | ± 9.6 % |
| 10700 | AAA | IEEE 802.11ax (40MHz, MCS5, 90pc dc)  | WLAN | 8.73 | ± 9.6 % |
| 10701 | AAA | IEEE 802.11ax (40MHz, MCS6, 90pc dc)  | WLAN | 8.86 | ± 9.6 % |
| 10702 | AAA | IEEE 802.11ax (40MHz, MCS7, 90pc dc)  | WLAN | 8.70 | ± 9.6 % |
| 10703 | AAA | IEEE 802.11ax (40MHz, MCS8, 90pc dc)  | WLAN | 8.82 | ± 9.6 % |
| 10704 | AAA | IEEE 802.11ax (40MHz, MCS9, 90pc dc)  | WLAN | 8.56 | ± 9.6 % |
| 10705 | AAA | IEEE 802.11ax (40MHz, MCS10, 90pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10706 | AAA | IEEE 802.11ax (40MHz, MCS11, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 | AAA | IEEE 802.11ax (40MHz, MCS0, 99pc dc)  | WLAN | 8.32 | ± 9.6 % |
| 10708 | AAA | IEEE 802.11ax (40MHz, MCS1, 99pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10709 | AAA | IEEE 802.11ax (40MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10710 | AAA | IEEE 802.11ax (40MHz, MCS3, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10711 | AAA | IEEE 802.11ax (40MHz, MCS4, 99pc dc)  | WLAN | 8.39 | ± 9.6 % |
| 10712 | AAA | IEEE 802.11ax (40MHz, MCS5, 99pc dc)  | WLAN | 8.67 | ± 9.6 % |
| 10713 | AAA | IEEE 802.11ax (40MHz, MCS6, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10714 | AAA | IEEE 802.11ax (40MHz, MCS7, 99pc dc)  | WLAN | 8.26 | ± 9.6 % |
| 10715 | AAA | IEEE 802.11ax (40MHz, MCS8, 99pc dc)  | WLAN | 8.45 | ± 9.6 % |
| 10716 | AAA | IEEE 802.11ax (40MHz, MCS9, 99pc dc)  | WLAN | 8.30 | ± 9.6 % |
| 10717 | AAA | IEEE 802.11ax (40MHz, MCS10, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10718 | AAA | IEEE 802.11ax (40MHz, MCS11, 99pc dc) | WLAN | 8.24 | ± 9.6 % |
| 10719 | AAA | IEEE 802.11ax (80MHz, MCS0, 90pc dc)  | WLAN | 8.81 | ± 9.6 % |
| 10720 | AAA | IEEE 802.11ax (80MHz, MCS1, 90pc dc)  | WLAN | 8.87 | ± 9.6 % |
| 10721 | AAA | IEEE 802.11ax (80MHz, MCS2, 90pc dc)  | WLAN | 8.76 | ± 9.6 % |
| 10722 | AAA | IEEE 802.11ax (80MHz, MCS3, 90pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10723 | AAA | IEEE 802.11ax (80MHz, MCS4, 90pc dc)  | WLAN | 8.70 | ± 9.6 % |
| 10724 | AAA | IEEE 802.11ax (80MHz, MCS5, 90pc dc)  | WLAN | 8.90 | ± 9.6 % |
| 10725 | AAA | IEEE 802.11ax (80MHz, MCS6, 90pc dc)  | WLAN | 8.74 | ± 9.6 % |
| 10726 | AAA | IEEE 802.11ax (80MHz, MCS7, 90pc dc)  | WLAN | 8.72 | ± 9.6 % |
| 10727 | AAA | IEEE 802.11ax (80MHz, MCS8, 90pc dc)  | WLAN | 8.66 | ± 9.6 % |
| 10728 | AAA | IEEE 802.11ax (80MHz, MCS9, 90pc dc)  | WLAN | 8.65 | ± 9.6 % |
| 10729 | AAA | IEEE 802.11ax (80MHz, MCS10, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10730 | AAA | IEEE 802.11ax (80MHz, MCS11, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10731 | AAA | IEEE 802.11ax (80MHz, MCS0, 99pc dc)  | WLAN | 8.42 | ± 9.6 % |
| 10732 | AAA | IEEE 802.11ax (80MHz, MCS1, 99pc dc)  | WLAN | 8.46 | ± 9.6 % |
| 10733 | AAA | IEEE 802.11ax (80MHz, MCS2, 99pc dc)  | WLAN | 8.40 | ± 9.6 % |
| 10734 | AAA | IEEE 802.11ax (80MHz, MCS3, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10735 | AAA | IEEE 802.11ax (80MHz, MCS4, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |

|       |     |                                                |               |      |        |
|-------|-----|------------------------------------------------|---------------|------|--------|
| 10736 | AAA | IEEE 802.11ax (80MHz, MCS5, 99pc dc)           | WLAN          | 8.27 | ±9.6 % |
| 10737 | AAA | IEEE 802.11ax (80MHz, MCS6, 99pc dc)           | WLAN          | 8.36 | ±9.6 % |
| 10738 | AAA | IEEE 802.11ax (80MHz, MCS7, 99pc dc)           | WLAN          | 8.42 | ±9.6 % |
| 10739 | AAA | IEEE 802.11ax (80MHz, MCS8, 99pc dc)           | WLAN          | 8.29 | ±9.6 % |
| 10740 | AAA | IEEE 802.11ax (80MHz, MCS9, 99pc dc)           | WLAN          | 8.48 | ±9.6 % |
| 10741 | AAA | IEEE 802.11ax (80MHz, MCS10, 99pc dc)          | WLAN          | 8.40 | ±9.6 % |
| 10742 | AAA | IEEE 802.11ax (80MHz, MCS11, 99pc dc)          | WLAN          | 8.43 | ±9.6 % |
| 10743 | AAA | IEEE 802.11ax (160MHz, MCS0, 90pc dc)          | WLAN          | 8.94 | ±9.6 % |
| 10744 | AAA | IEEE 802.11ax (160MHz, MCS1, 90pc dc)          | WLAN          | 9.16 | ±9.6 % |
| 10745 | AAA | IEEE 802.11ax (160MHz, MCS2, 90pc dc)          | WLAN          | 8.93 | ±9.6 % |
| 10746 | AAA | IEEE 802.11ax (160MHz, MCS3, 90pc dc)          | WLAN          | 9.11 | ±9.6 % |
| 10747 | AAA | IEEE 802.11ax (160MHz, MCS4, 90pc dc)          | WLAN          | 9.04 | ±9.6 % |
| 10748 | AAA | IEEE 802.11ax (160MHz, MCS5, 90pc dc)          | WLAN          | 8.93 | ±9.6 % |
| 10749 | AAA | IEEE 802.11ax (160MHz, MCS6, 90pc dc)          | WLAN          | 8.90 | ±9.6 % |
| 10750 | AAA | IEEE 802.11ax (160MHz, MCS7, 90pc dc)          | WLAN          | 8.79 | ±9.6 % |
| 10751 | AAA | IEEE 802.11ax (160MHz, MCS8, 90pc dc)          | WLAN          | 8.82 | ±9.6 % |
| 10752 | AAA | IEEE 802.11ax (160MHz, MCS9, 90pc dc)          | WLAN          | 8.81 | ±9.6 % |
| 10753 | AAA | IEEE 802.11ax (160MHz, MCS10, 90pc dc)         | WLAN          | 9.00 | ±9.6 % |
| 10754 | AAA | IEEE 802.11ax (160MHz, MCS11, 90pc dc)         | WLAN          | 8.94 | ±9.6 % |
| 10755 | AAA | IEEE 802.11ax (160MHz, MCS0, 99pc dc)          | WLAN          | 8.64 | ±9.6 % |
| 10756 | AAA | IEEE 802.11ax (160MHz, MCS1, 99pc dc)          | WLAN          | 8.77 | ±9.6 % |
| 10757 | AAA | IEEE 802.11ax (160MHz, MCS2, 99pc dc)          | WLAN          | 8.77 | ±9.6 % |
| 10758 | AAA | IEEE 802.11ax (160MHz, MCS3, 99pc dc)          | WLAN          | 8.69 | ±9.6 % |
| 10759 | AAA | IEEE 802.11ax (160MHz, MCS4, 99pc dc)          | WLAN          | 8.58 | ±9.6 % |
| 10760 | AAA | IEEE 802.11ax (160MHz, MCS5, 99pc dc)          | WLAN          | 8.49 | ±9.6 % |
| 10761 | AAA | IEEE 802.11ax (160MHz, MCS6, 99pc dc)          | WLAN          | 8.58 | ±9.6 % |
| 10762 | AAA | IEEE 802.11ax (160MHz, MCS7, 99pc dc)          | WLAN          | 8.49 | ±9.6 % |
| 10763 | AAA | IEEE 802.11ax (160MHz, MCS8, 99pc dc)          | WLAN          | 8.53 | ±9.6 % |
| 10764 | AAA | IEEE 802.11ax (160MHz, MCS9, 99pc dc)          | WLAN          | 8.54 | ±9.6 % |
| 10765 | AAA | IEEE 802.11ax (160MHz, MCS10, 99pc dc)         | WLAN          | 8.54 | ±9.6 % |
| 10766 | AAA | IEEE 802.11ax (160MHz, MCS11, 99pc dc)         | WLAN          | 8.51 | ±9.6 % |
| 10767 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 7.99 | ±9.6 % |
| 10768 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10769 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10770 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10771 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10772 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.23 | ±9.6 % |
| 10773 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.03 | ±9.6 % |
| 10774 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10775 | AAB | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31 | ±9.6 % |
| 10776 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ±9.6 % |
| 10777 | AAB | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ±9.6 % |
| 10778 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.34 | ±9.6 % |
| 10779 | AAB | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.42 | ±9.6 % |
| 10780 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10781 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10782 | AAC | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.43 | ±9.6 % |
| 10783 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.31 | ±9.6 % |
| 10784 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ±9.6 % |
| 10785 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 % |
| 10786 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 % |
| 10787 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ±9.6 % |
| 10788 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10789 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 % |
| 10790 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10791 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.83 | ±9.6 % |
| 10792 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.92 | ±9.6 % |
| 10793 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.95 | ±9.6 % |
| 10794 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ±9.6 % |
| 10795 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.84 | ±9.6 % |
| 10796 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ±9.6 % |
| 10797 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.89 | ±9.6 % |
| 10799 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93 | ±9.6 % |

|       |     |                                                      |               |      |         |
|-------|-----|------------------------------------------------------|---------------|------|---------|
| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)          | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)          | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)         | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10805 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10806 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10810 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10812 | AAC | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10818 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10819 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10820 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10822 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10824 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10825 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10827 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10828 | AAC | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10829 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10830 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.63 | ± 9.6 % |
| 10831 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.73 | ± 9.6 % |
| 10832 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.74 | ± 9.6 % |
| 10833 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10834 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.75 | ± 9.6 % |
| 10835 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.66 | ± 9.6 % |
| 10837 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.68 | ± 9.6 % |
| 10839 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10840 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.67 | ± 9.6 % |
| 10841 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         | 5G NR FR1 TDD | 7.71 | ± 9.6 % |
| 10843 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.49 | ± 9.6 % |
| 10844 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10846 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10854 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10855 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10856 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10857 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10858 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10859 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10860 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10861 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10863 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10864 | AAC | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10865 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10866 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10868 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)  | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10871 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10874 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 6.39 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 7.95 | ± 9.6 % |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.12 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 6.61 | ± 9.6 % |

|       |     |                                                     |               |      |         |
|-------|-----|-----------------------------------------------------|---------------|------|---------|
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.35 | ± 9.6 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.13 | ± 9.6 % |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10897 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10910 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10911 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10922 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.82 | ± 9.6 % |
| 10923 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10924 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10942 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10943 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95 | ± 9.6 % |
| 10944 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92 | ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25 | ± 9.6 % |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15 | ± 9.6 % |

|       |     |                                                     |               |      |         |
|-------|-----|-----------------------------------------------------|---------------|------|---------|
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23 | ± 9.6 % |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42 | ± 9.6 % |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14 | ± 9.6 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32 | ± 9.6 % |
| 10961 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36 | ± 9.6 % |
| 10962 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40 | ± 9.6 % |
| 10963 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10964 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29 | ± 9.6 % |
| 10965 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37 | ± 9.6 % |
| 10966 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10967 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42 | ± 9.6 % |
| 10968 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ± 9.6 % |

<sup>‡</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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**Appendix E. Conducted RF Output Power Table**

The detailed power table are shown as follows.

## Full Power

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | TX Channel                | 128   | 189   | 251                 | 128                       | 189   | 251   |                     |
| Frequency (MHz) |                           | 824.2 | 836.4 | 848.8               | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |                           | 32.17 | 32.13 | 32.29               | 33.50                     | 23.17 | 23.13 | 23.29               |
| GPRS 1 Tx slot  |                           | 32.15 | 32.11 | 32.27               | 33.50                     | 23.15 | 23.11 | 23.27               |
| GPRS 2 Tx slot  |                           | 31.55 | 31.49 | 31.33               | 32.50                     | 25.55 | 25.49 | 25.33               |
| GPRS 3 Tx slot  |                           | 29.70 | 30.19 | 30.01               | 31.00                     | 25.44 | 25.93 | 25.75               |
| GPRS 4 Tx slot  |                           | 28.44 | 28.80 | 28.47               | 29.50                     | 25.44 | 25.80 | 25.47               |
| EDGE 1 Tx slot  |                           | 26.12 | 26.12 | 26.07               | 27.00                     | 17.12 | 17.12 | 17.07               |
| EDGE 2 Tx slot  |                           | 26.09 | 26.01 | 25.94               | 26.50                     | 20.06 | 20.01 | 19.94               |
| EDGE 3 Tx slot  |                           | 24.13 | 24.14 | 24.07               | 25.00                     | 19.87 | 19.88 | 19.81               |
| EDGE 4 Tx slot  |                           | 22.97 | 23.10 | 22.91               | 24.00                     | 19.97 | 20.10 | 19.91               |

| GSM1900         | Burst Average Power (dBm) |        |       | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|-------|---------------------|---------------------------|-------|--------|---------------------|
|                 | TX Channel                | 512    | 661   | 810                 | 512                       | 661   | 810    |                     |
| Frequency (MHz) |                           | 1552.2 | 1623  | 1693.2              | 1552.2                    | 1623  | 1693.2 |                     |
| GSM 1 Tx slot   |                           | 29.56  | 29.91 | 29.71               | 30.50                     | 20.56 | 20.91  | 20.71               |
| GPRS 1 Tx slot  |                           | 29.54  | 29.89 | 29.70               | 30.50                     | 20.54 | 20.89  | 20.70               |
| GPRS 2 Tx slot  |                           | 29.08  | 29.23 | 28.75               | 30.00                     | 23.08 | 23.23  | 22.75               |
| GPRS 3 Tx slot  |                           | 27.06  | 27.45 | 27.00               | 28.00                     | 22.80 | 23.19  | 22.74               |
| GPRS 4 Tx slot  |                           | 25.25  | 25.48 | 25.40               | 26.50                     | 22.25 | 22.48  | 22.40               |
| EDGE 1 Tx slot  |                           | 25.23  | 25.59 | 25.49               | 26.50                     | 16.23 | 16.59  | 16.49               |
| EDGE 2 Tx slot  |                           | 24.16  | 24.50 | 24.44               | 25.50                     | 16.16 | 16.50  | 16.44               |
| EDGE 3 Tx slot  |                           | 22.29  | 22.42 | 22.45               | 23.50                     | 16.03 | 16.36  | 16.19               |
| EDGE 4 Tx slot  |                           | 21.08  | 21.52 | 21.32               | 22.50                     | 16.08 | 16.52  | 16.32               |

| Band            |                    | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
| TX Channel      |                    | 9262     | 9400  | 9638   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel      |                    | 9662     | 9800  | 9938   |                     | 1637     | 1638   | 1738   |                     | 4367    | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 23.24    | 23.30 | 23.30  | 24.00               | 23.29    | 23.25  | 23.28  | 24.00               | 23.15   | 23.11 | 23.03 | 24.00               |
| 3GPP Rel 99     | RM-AC 12.2Kbps     | 23.26    | 23.32 | 23.31  | 24.00               | 23.32    | 23.33  | 23.30  | 24.00               | 23.17   | 23.18 | 23.05 | 24.00               |
| 3GPP Rel 6      | HS-DS-SS Subtest-1 | 22.24    | 22.26 | 22.23  | 23.00               | 22.27    | 22.22  | 22.20  | 23.00               | 22.12   | 22.04 | 21.95 | 23.00               |
| 3GPP Rel 6      | HS-DS-SS Subtest-2 | 22.23    | 22.23 | 22.30  | 23.00               | 22.27    | 22.25  | 22.21  | 23.00               | 22.09   | 22.06 | 21.95 | 23.00               |
| 3GPP Rel 6      | HS-DS-SS Subtest-3 | 21.71    | 21.78 | 21.74  | 22.50               | 21.73    | 21.73  | 21.71  | 22.50               | 21.62   | 21.57 | 21.48 | 22.50               |
| 3GPP Rel 6      | HS-DS-SS Subtest-4 | 21.69    | 21.75 | 21.75  | 22.50               | 21.76    | 21.69  | 21.70  | 22.50               | 21.61   | 21.55 | 21.45 | 22.50               |
| 3GPP Rel 6      | DC-HS-SS Subtest-1 | 22.22    | 22.23 | 22.22  | 23.00               | 22.25    | 22.19  | 22.19  | 23.00               | 22.08   | 21.98 | 21.93 | 23.00               |
| 3GPP Rel 6      | DC-HS-SS Subtest-2 | 22.20    | 22.20 | 22.28  | 23.00               | 22.24    | 22.22  | 22.19  | 23.00               | 22.03   | 22.00 | 21.91 | 23.00               |
| 3GPP Rel 6      | DC-HS-SS Subtest-3 | 21.70    | 21.76 | 21.71  | 22.50               | 21.72    | 21.71  | 21.68  | 22.50               | 21.60   | 21.53 | 21.42 | 22.50               |
| 3GPP Rel 6      | DC-HS-SS Subtest-4 | 21.68    | 21.72 | 21.74  | 22.50               | 21.73    | 21.68  | 21.69  | 22.50               | 21.55   | 21.49 | 21.43 | 22.50               |
| 3GPP Rel 6      | HS-SS Subtest-1    | 22.16    | 22.23 | 22.18  | 23.00               | 22.17    | 22.14  | 22.19  | 23.00               | 22.06   | 22.02 | 21.91 | 23.00               |
| 3GPP Rel 6      | HS-SS Subtest-2    | 20.18    | 20.22 | 20.17  | 21.00               | 20.16    | 20.13  | 20.16  | 21.00               | 20.01   | 20.02 | 19.95 | 21.00               |
| 3GPP Rel 6      | HS-SS Subtest-3    | 21.21    | 21.29 | 21.23  | 22.00               | 21.05    | 21.17  | 21.17  | 22.00               | 21.12   | 21.09 | 20.95 | 22.00               |
| 3GPP Rel 6      | HS-SS Subtest-4    | 20.14    | 20.22 | 20.24  | 21.00               | 20.17    | 20.17  | 20.18  | 21.00               | 20.03   | 20.03 | 19.92 | 21.00               |
| 3GPP Rel 6      | HS-SS Subtest-5    | 22.20    | 22.20 | 22.20  | 23.00               | 22.20    | 22.20  | 22.20  | 23.00               | 22.10   | 22.00 | 21.90 | 23.00               |

| Band             |  | CDMA BC0 |        |        | Tune-up Limit (dBm) | CDMA BC1 |       |         | Tune-up Limit (dBm) |
|------------------|--|----------|--------|--------|---------------------|----------|-------|---------|---------------------|
| TX Channel       |  | 1013     | 384    | 777    |                     | 25       | 800   | 1175    |                     |
| Frequency (MHz)  |  | 824.7    | 836.52 | 848.31 |                     | 1651.25  | 1680  | 1508.75 |                     |
| RC1 SOG0         |  | 23.88    | 23.79  | 23.88  | 25.00               | 24.20    | 24.28 | 24.21   | 25.00               |
| RC1 SOG5         |  | 23.89    | 23.92  | 23.85  | 25.00               | 24.12    | 24.30 | 24.25   | 25.00               |
| RC1 SO32 (F+SCH) |  | 23.81    | 23.80  | 23.84  | 25.00               | 24.12    | 24.21 | 24.25   | 25.00               |
| RC1 SO32 (F+SCH) |  | 23.79    | 23.77  | 23.90  | 25.00               | 24.20    | 24.14 | 24.23   | 25.00               |
| RTAP 153.6Kbps   |  | 23.87    | 23.99  | 23.78  | 25.00               | 24.14    | 24.25 | 24.23   | 25.00               |
| RTAP 496Kbps     |  | 23.88    | 23.75  | 23.90  | 25.00               | 24.21    | 24.21 | 24.28   | 25.00               |

| Band 2 (1900MHz Band)<br>Part 24E |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |  |  |  |
| Channel                           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 20                                | QPSK       | 1       | 0         | 22.66                 | 22.73                    | 22.57                  | 24                  | 0        |  |  |  |  |
| 20                                | QPSK       | 1       | 49        | 22.45                 | 22.48                    | 22.53                  |                     |          |  |  |  |  |
| 20                                | QPSK       | 1       | 99        | 22.44                 | 22.48                    | 22.35                  |                     |          |  |  |  |  |
| 20                                | QPSK       | 50      | 0         | 21.32                 | 21.50                    | 21.34                  | 23                  | 1        |  |  |  |  |
| 20                                | QPSK       | 50      | 24        | 21.44                 | 21.46                    | 21.48                  |                     |          |  |  |  |  |
| 20                                | QPSK       | 50      | 50        | 21.32                 | 21.41                    | 21.37                  |                     |          |  |  |  |  |
| 20                                | QPSK       | 100     | 0         | 21.35                 | 21.44                    | 21.34                  | 23                  | 1        |  |  |  |  |
| 20                                | 16QAM      | 1       | 0         | 21.83                 | 21.72                    | 21.67                  |                     |          |  |  |  |  |
| 20                                | 16QAM      | 1       | 49        | 21.58                 | 21.64                    | 21.65                  |                     |          |  |  |  |  |
| 20                                | 16QAM      | 1       | 99        | 21.55                 | 21.62                    | 21.38                  | 22                  | 2        |  |  |  |  |
| 20                                | 16QAM      | 50      | 0         | 20.54                 | 20.51                    | 20.53                  |                     |          |  |  |  |  |
| 20                                | 16QAM      | 50      | 24        | 20.60                 | 20.60                    | 20.68                  |                     |          |  |  |  |  |
| 20                                | 16QAM      | 50      | 50        | 20.54                 | 20.61                    | 20.57                  | 22                  | 2        |  |  |  |  |
| 20                                | 16QAM      | 100     | 0         | 20.56                 | 20.51                    | 20.55                  |                     |          |  |  |  |  |
| 20                                | 64QAM      | 1       | 0         | 20.58                 | 20.58                    | 20.82                  |                     |          |  |  |  |  |
| 20                                | 64QAM      | 1       | 49        | 20.62                 | 20.75                    | 20.58                  | 22                  | 2        |  |  |  |  |
| 20                                | 64QAM      | 1       | 99        | 20.65                 | 20.71                    | 20.44                  |                     |          |  |  |  |  |
| 20                                | 64QAM      | 50      | 0         | 19.75                 | 19.75                    | 19.79                  |                     |          |  |  |  |  |
| 20                                | 64QAM      | 50      | 24        | 19.86                 | 19.81                    | 19.89                  | 21                  | 3        |  |  |  |  |
| 20                                | 64QAM      | 50      | 50        | 19.79                 | 19.83                    | 19.85                  |                     |          |  |  |  |  |
| 20                                | 64QAM      | 100     | 0         | 19.82                 | 19.75                    | 19.76                  |                     |          |  |  |  |  |
| Channel                           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 15                                | QPSK       | 1       | 0         | 22.49                 | 22.57                    | 22.61                  | 24                  | 0        |  |  |  |  |
| 15                                | QPSK       | 1       | 37        | 22.49                 | 22.50                    | 22.51                  |                     |          |  |  |  |  |
| 15                                | QPSK       | 1       | 74        | 22.32                 | 22.49                    | 22.38                  |                     |          |  |  |  |  |
| 15                                | QPSK       | 36      | 0         | 21.33                 | 21.33                    | 21.37                  | 23                  | 1        |  |  |  |  |
| 15                                | QPSK       | 36      | 20        | 21.45                 | 21.45                    | 21.47                  |                     |          |  |  |  |  |
| 15                                | QPSK       | 36      | 39        | 21.37                 | 21.43                    | 21.37                  |                     |          |  |  |  |  |
| 15                                | QPSK       | 75      | 0         | 21.38                 | 21.38                    | 21.33                  | 23                  | 1        |  |  |  |  |
| 15                                | 16QAM      | 1       | 0         | 21.59                 | 21.70                    | 21.72                  |                     |          |  |  |  |  |
| 15                                | 16QAM      | 1       | 37        | 21.58                 | 21.65                    | 21.67                  |                     |          |  |  |  |  |
| 15                                | 16QAM      | 1       | 74        | 21.41                 | 21.61                    | 21.47                  | 22                  | 2        |  |  |  |  |
| 15                                | 16QAM      | 36      | 0         | 20.55                 | 20.55                    | 20.56                  |                     |          |  |  |  |  |
| 15                                | 16QAM      | 36      | 20        | 20.62                 | 20.65                    | 20.67                  |                     |          |  |  |  |  |
| 15                                | 16QAM      | 36      | 39        | 20.55                 | 20.60                    | 20.57                  | 22                  | 2        |  |  |  |  |
| 15                                | 16QAM      | 75      | 0         | 20.60                 | 20.55                    | 20.55                  |                     |          |  |  |  |  |
| 15                                | 64QAM      | 1       | 0         | 20.73                 | 20.92                    | 20.83                  |                     |          |  |  |  |  |
| 15                                | 64QAM      | 1       | 37        | 20.67                 | 20.80                    | 20.82                  | 22                  | 2        |  |  |  |  |
| 15                                | 64QAM      | 1       | 74        | 20.49                 | 20.70                    | 20.52                  |                     |          |  |  |  |  |
| 15                                | 64QAM      | 36      | 0         | 19.79                 | 19.77                    | 19.81                  |                     |          |  |  |  |  |
| 15                                | 64QAM      | 36      | 20        | 19.85                 | 19.89                    | 19.89                  | 21                  | 3        |  |  |  |  |
| 15                                | 64QAM      | 36      | 39        | 19.82                 | 19.87                    | 19.84                  |                     |          |  |  |  |  |
| 15                                | 64QAM      | 75      | 0         | 19.86                 | 19.78                    | 19.78                  |                     |          |  |  |  |  |
| Channel                           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 10                                | QPSK       | 1       | 0         | 22.38                 | 22.31                    | 22.72                  | 24                  | 0        |  |  |  |  |
| 10                                | QPSK       | 1       | 25        | 22.54                 | 22.59                    | 22.56                  |                     |          |  |  |  |  |
| 10                                | QPSK       | 1       | 49        | 22.24                 | 22.32                    | 22.48                  |                     |          |  |  |  |  |
| 10                                | QPSK       | 25      | 0         | 21.50                 | 21.40                    | 21.42                  | 23                  | 1        |  |  |  |  |
| 10                                | QPSK       | 25      | 12        | 21.55                 | 21.50                    | 21.48                  |                     |          |  |  |  |  |
| 10                                | QPSK       | 25      | 25        | 21.40                 | 21.46                    | 21.48                  |                     |          |  |  |  |  |
| 10                                | QPSK       | 50      | 0         | 21.47                 | 21.47                    | 21.36                  | 23                  | 1        |  |  |  |  |
| 10                                | 16QAM      | 1       | 0         | 21.58                 | 21.40                    | 21.84                  |                     |          |  |  |  |  |
| 10                                | 16QAM      | 1       | 25        | 21.77                 | 21.77                    | 21.76                  |                     |          |  |  |  |  |
| 10                                | 16QAM      | 1       | 49        | 21.41                 | 21.47                    | 21.63                  | 22                  | 2        |  |  |  |  |
| 10                                | 16QAM      | 25      | 0         | 20.71                 | 20.57                    | 20.59                  |                     |          |  |  |  |  |
| 10                                | 16QAM      | 25      | 12        | 20.75                 | 20.67                    | 20.66                  |                     |          |  |  |  |  |
| 10                                | 16QAM      | 25      | 25        | 20.55                 | 20.66                    | 20.58                  | 22                  | 2        |  |  |  |  |
| 10                                | 16QAM      | 50      | 0         | 20.68                 | 20.64                    | 20.57                  |                     |          |  |  |  |  |
| 10                                | 64QAM      | 1       | 0         | 20.76                 | 20.71                    | 21.10                  |                     |          |  |  |  |  |
| 10                                | 64QAM      | 1       | 25        | 20.52                 | 21.02                    | 20.94                  | 22                  | 2        |  |  |  |  |
| 10                                | 64QAM      | 1       | 49        | 20.63                 | 20.69                    | 20.73                  |                     |          |  |  |  |  |
| 10                                | 64QAM      | 25      | 0         | 19.84                 | 19.85                    | 19.82                  |                     |          |  |  |  |  |
| 10                                | 64QAM      | 25      | 12        | 20.00                 | 19.95                    | 19.93                  | 21                  | 3        |  |  |  |  |
| 10                                | 64QAM      | 25      | 25        | 19.83                 | 19.85                    | 19.82                  |                     |          |  |  |  |  |
| 10                                | 64QAM      | 50      | 0         | 19.90                 | 19.92                    | 19.78                  |                     |          |  |  |  |  |
| Channel                           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 5                                 | QPSK       | 1       | 0         | 22.72                 | 22.56                    | 22.72                  | 24                  | 0        |  |  |  |  |
| 5                                 | QPSK       | 1       | 12        | 22.72                 | 22.70                    | 22.66                  |                     |          |  |  |  |  |
| 5                                 | QPSK       | 1       | 24        | 22.54                 | 22.56                    | 22.47                  |                     |          |  |  |  |  |
| 5                                 | QPSK       | 12      | 0         | 21.68                 | 21.52                    | 21.54                  | 23                  | 1        |  |  |  |  |
| 5                                 | QPSK       | 12      | 7         | 21.61                 | 21.59                    | 21.51                  |                     |          |  |  |  |  |
| 5                                 | QPSK       | 12      | 13        | 21.51                 | 21.52                    | 21.41                  |                     |          |  |  |  |  |
| 5                                 | QPSK       | 25      | 0         | 21.60                 | 21.49                    | 21.98                  | 23                  | 1        |  |  |  |  |
| 5                                 | 16QAM      | 1       | 0         | 21.87                 | 21.77                    | 21.72                  |                     |          |  |  |  |  |
| 5                                 | 16QAM      | 1       | 12        | 21.92                 | 21.87                    | 21.73                  |                     |          |  |  |  |  |
| 5                                 | 16QAM      | 1       | 24        | 21.72                 | 21.74                    | 21.59                  | 22                  | 2        |  |  |  |  |
| 5                                 | 16QAM      | 12      | 0         | 20.98                 | 20.73                    | 20.76                  |                     |          |  |  |  |  |
| 5                                 | 16QAM      | 12      | 7         | 20.86                 | 20.83                    | 20.75                  |                     |          |  |  |  |  |
| 5                                 | 16QAM      | 12      | 13        | 20.75                 | 20.75                    | 20.63                  | 22                  | 2        |  |  |  |  |
| 5                                 | 16QAM      | 25      | 0         | 20.81                 | 20.71                    | 20.68                  |                     |          |  |  |  |  |
| 5                                 | 64QAM      | 1       | 0         | 21.00                 | 20.89                    | 20.78                  |                     |          |  |  |  |  |
| 5                                 | 64QAM      | 1       | 12        | 21.05                 | 20.98                    | 20.93                  | 22                  | 2        |  |  |  |  |
| 5                                 | 64QAM      | 1       | 24        | 20.84                 | 20.85                    | 20.78                  |                     |          |  |  |  |  |
| 5                                 | 64QAM      | 12      | 0         | 20.09                 | 19.98                    | 19.98                  |                     |          |  |  |  |  |
| 5                                 | 64QAM      | 12      | 7         | 20.04                 | 20.02                    | 19.95                  | 21                  | 3        |  |  |  |  |
| 5                                 | 64QAM      | 12      | 13        | 19.93                 | 19.94                    | 19.88                  |                     |          |  |  |  |  |
| 5                                 | 64QAM      | 25      | 0         | 20.01                 | 19.92                    | 19.91                  |                     |          |  |  |  |  |
| Channel                           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3                                 | QPSK       | 1       | 0         | 22.54                 | 22.64                    | 22.66                  | 24                  | 0        |  |  |  |  |
| 3                                 | QPSK       | 1       | 8         | 22.56                 | 22.71                    | 22.61                  |                     |          |  |  |  |  |
| 3                                 | QPSK       | 1       | 14        | 22.58                 | 22.60                    | 22.45                  |                     |          |  |  |  |  |
| 3                                 | QPSK       | 8       | 0         | 21.64                 | 21.50                    | 21.48                  | 23                  | 1        |  |  |  |  |
| 3                                 | QPSK       | 8       | 4         | 21.61                 | 21.60                    | 21.48                  |                     |          |  |  |  |  |
| 3                                 | QPSK       | 8       | 7         | 21.53                 | 21.53                    | 21.42                  |                     |          |  |  |  |  |
| 3                                 | QPSK       | 15      | 0         | 21.63                 | 21.57                    | 21.46                  | 23                  | 1        |  |  |  |  |
| 3                                 | 16QAM      | 1       | 0         | 21.95                 | 21.73                    | 21.78                  |                     |          |  |  |  |  |
| 3                                 | 16QAM      | 1       | 8         | 21.98                 | 21.86                    | 21.76                  |                     |          |  |  |  |  |
| 3                                 | 16QAM      | 1       | 14        | 21.76                 | 21.75                    | 21.63                  | 22                  | 2        |  |  |  |  |
| 3                                 | 16QAM      | 8       | 0         | 20.94                 | 20.83                    | 20.76                  |                     |          |  |  |  |  |
| 3                                 | 16QAM      | 8       | 4         | 20.92                 | 20.86                    | 20.77                  |                     |          |  |  |  |  |
| 3                                 | 16QAM      | 8       | 7         | 20.86                 | 20.80                    | 20.70                  | 22                  | 2        |  |  |  |  |
| 3                                 | 16QAM      | 15      | 0         | 20.86                 | 20.81                    | 20.70                  |                     |          |  |  |  |  |
| 3                                 | 64QAM      | 1       | 0         | 21.04                 | 20.94                    | 20.92                  |                     |          |  |  |  |  |
| 3                                 | 64QAM      | 1       | 8         | 21.09                 | 20.98                    | 20.93                  | 22                  | 2        |  |  |  |  |
| 3                                 | 64QAM      | 1       | 14        | 20.90                 | 20.88                    | 20.79                  |                     |          |  |  |  |  |
| 3                                 | 64QAM      | 8       | 0         | 20.11                 | 20.01                    | 19.95                  |                     |          |  |  |  |  |
| 3                                 | 64QAM      | 8       | 4         | 20.10                 | 20.03                    | 19.97                  | 21                  | 3        |  |  |  |  |
| 3                                 | 64QAM      | 8       | 7         | 20.02                 | 20.00                    | 19.87                  |                     |          |  |  |  |  |
| 3                                 | 64QAM      | 15      | 0         | 20.05                 | 20.00                    | 19.91                  |                     |          |  |  |  |  |
| Channel                           |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 1.4                               | QPSK       | 1       | 0         | 22.67                 | 22.80                    | 22.68                  | 24                  | 0        |  |  |  |  |
| 1.4                               | QPSK       | 1       | 3         | 22.70                 | 22.82                    | 22.52                  |                     |          |  |  |  |  |
| 1.4                               | QPSK       | 1       | 5         | 22.62                 | 22.57                    | 22.39                  |                     |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 0         | 22.71                 | 22.56                    | 22.47                  | 23                  | 1        |  |  |  |  |
| 1.4                               | QPSK       | 3       | 3         | 22.54                 | 22.67                    | 22.47                  |                     |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 6         | 22.66                 | 22.56                    | 22.46                  |                     |          |  |  |  |  |
| 1.4                               | QPSK       | 6       | 0         | 21.51                 | 21.47                    | 21.37                  | 23                  | 1        |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 0         | 21.84                 | 21.77                    | 21.61                  |                     |          |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 3         | 21.85                 | 21.78                    | 21.68                  |                     |          |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 5         | 21.76                 | 21.73                    | 21.56                  | 23                  | 1        |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 0         | 21.60                 | 21.55                    | 21.38                  |                     |          |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 3         | 21.56                 | 21.63                    | 21.41                  |                     |          |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 6         | 21.51                 | 21.56                    | 21.36                  | 22                  | 2        |  |  |  |  |
| 1.4                               | 16QAM      | 6       | 0         | 20.81                 | 20.75                    | 20.64                  |                     |          |  |  |  |  |
| 1.4                               | 64QAM      | 1       | 0         | 21.02                 | 20.86                    | 20.75                  |                     |          |  |  |  |  |
| 1.4                               | 64QAM      | 1       | 3         | 21.02                 | 20.91                    | 20.85                  | 22                  | 2        |  |  |  |  |
| 1.4                               | 64QAM      | 1       | 5         | 20.88                 | 20.89                    | 20.74                  |                     |          |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 0         | 20.89                 | 20.75                    | 20.68                  |                     |          |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 3         | 20.94                 | 20.82                    | 20.72                  | 22                  | 2        |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 6         | 20.80                 | 20.77                    | 20.62                  |                     |          |  |  |  |  |
| 1.4                               | 64QAM      | 6       | 0         | 19.99                 | 19.94                    | 19.82                  |                     |          |  |  |  |  |

| Band 7 (2600MHz Band)<br>Part 27 |            |         |           |                          |                             |                           |                           |             |  |
|----------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW (MHz)                         | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                          |            |         |           | 20600                    | 21100                       | 21560                     |                           |             |  |
| Frequency (MHz)                  |            |         |           | 2510                     | 2535                        | 2560                      |                           |             |  |
| 20                               | QPSK       | 1       | 0         | 22.97                    | 23.22                       | 23.03                     | 24                        | 0           |  |
| 10                               | QPSK       | 1       | 49        | 23.02                    | 23.12                       | 23.04                     |                           |             |  |
| 20                               | QPSK       | 1       | 99        | 23.12                    | 23.14                       | 23.09                     |                           |             |  |
| 20                               | QPSK       | 50      | 0         | 21.75                    | 22.11                       | 21.96                     | 23                        | 1           |  |
| 20                               | QPSK       | 50      | 24        | 21.88                    | 22.01                       | 22.03                     |                           |             |  |
| 20                               | QPSK       | 50      | 50        | 21.94                    | 21.94                       | 21.82                     |                           |             |  |
| 20                               | QPSK       | 100     | 0         | 21.88                    | 21.91                       | 21.91                     | 23                        | 1           |  |
| 20                               | 16QAM      | 1       | 0         | 22.14                    | 22.15                       | 22.15                     |                           |             |  |
| 20                               | 16QAM      | 1       | 49        | 22.19                    | 22.27                       | 22.19                     |                           |             |  |
| 20                               | 16QAM      | 1       | 99        | 22.20                    | 22.30                       | 22.25                     | 22                        | 2           |  |
| 20                               | 16QAM      | 50      | 0         | 20.96                    | 21.10                       | 21.16                     |                           |             |  |
| 20                               | 16QAM      | 50      | 24        | 21.16                    | 21.21                       | 21.23                     |                           |             |  |
| 20                               | 16QAM      | 50      | 50        | 21.14                    | 21.14                       | 21.02                     | 22                        | 2           |  |
| 20                               | 16QAM      | 100     | 0         | 21.08                    | 21.10                       | 21.12                     |                           |             |  |
| 20                               | 64QAM      | 1       | 0         | 21.26                    | 21.28                       | 21.32                     |                           |             |  |
| 20                               | 64QAM      | 1       | 49        | 21.32                    | 21.43                       | 21.35                     | 22                        | 2           |  |
| 20                               | 64QAM      | 1       | 99        | 21.33                    | 21.47                       | 21.45                     |                           |             |  |
| 20                               | 64QAM      | 50      | 0         | 20.15                    | 20.31                       | 20.38                     |                           |             |  |
| 20                               | 64QAM      | 50      | 24        | 20.39                    | 20.44                       | 20.46                     | 21                        | 3           |  |
| 20                               | 64QAM      | 50      | 50        | 20.39                    | 20.36                       | 20.27                     |                           |             |  |
| 20                               | 64QAM      | 100     | 0         | 20.32                    | 20.36                       | 20.35                     |                           |             |  |
| Channel                          |            |         |           | 20825                    | 21100                       | 21375                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)                  |            |         |           | 2597.5                   | 2535                        | 2562.5                    |                           |             |  |
| 15                               | QPSK       | 1       | 0         | 22.99                    | 23.06                       | 23.07                     | 24                        | 0           |  |
| 15                               | QPSK       | 1       | 37        | 23.05                    | 23.14                       | 23.08                     |                           |             |  |
| 15                               | QPSK       | 1       | 74        | 23.12                    | 23.16                       | 23.12                     |                           |             |  |
| 15                               | QPSK       | 36      | 0         | 21.86                    | 21.94                       | 21.97                     | 23                        | 1           |  |
| 15                               | QPSK       | 36      | 20        | 21.98                    | 22.01                       | 22.01                     |                           |             |  |
| 15                               | QPSK       | 36      | 36        | 21.97                    | 21.94                       | 21.97                     |                           |             |  |
| 15                               | QPSK       | 75      | 0         | 21.93                    | 21.96                       | 21.96                     | 23                        | 1           |  |
| 15                               | 16QAM      | 1       | 0         | 22.14                    | 22.19                       | 22.12                     |                           |             |  |
| 15                               | 16QAM      | 1       | 37        | 22.19                    | 22.25                       | 22.17                     |                           |             |  |
| 15                               | 16QAM      | 1       | 74        | 22.24                    | 22.28                       | 22.24                     | 22                        | 2           |  |
| 15                               | 16QAM      | 36      | 0         | 21.04                    | 21.11                       | 21.16                     |                           |             |  |
| 15                               | 16QAM      | 36      | 20        | 21.16                    | 21.19                       | 21.20                     |                           |             |  |
| 15                               | 16QAM      | 36      | 36        | 21.18                    | 21.17                       | 21.14                     | 22                        | 2           |  |
| 15                               | 16QAM      | 75      | 0         | 21.13                    | 21.13                       | 21.16                     |                           |             |  |
| 15                               | 64QAM      | 1       | 0         | 21.27                    | 21.26                       | 21.26                     |                           |             |  |
| 15                               | 64QAM      | 1       | 37        | 21.28                    | 21.34                       | 21.25                     | 22                        | 2           |  |
| 15                               | 64QAM      | 1       | 74        | 21.33                    | 21.41                       | 21.41                     |                           |             |  |
| 15                               | 64QAM      | 36      | 0         | 20.29                    | 20.37                       | 20.41                     |                           |             |  |
| 15                               | 64QAM      | 36      | 20        | 20.40                    | 20.43                       | 20.45                     | 21                        | 3           |  |
| 15                               | 64QAM      | 36      | 36        | 20.41                    | 20.42                       | 20.40                     |                           |             |  |
| 15                               | 64QAM      | 75      | 0         | 20.35                    | 20.41                       | 20.40                     |                           |             |  |
| Channel                          |            |         |           | 20900                    | 21100                       | 21400                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)                  |            |         |           | 25905                    | 2535                        | 2565                      |                           |             |  |
| 10                               | QPSK       | 1       | 0         | 22.97                    | 23.09                       | 23.01                     | 24                        | 0           |  |
| 10                               | QPSK       | 1       | 25        | 22.96                    | 23.11                       | 23.01                     |                           |             |  |
| 10                               | QPSK       | 1       | 49        | 23.03                    | 23.18                       | 23.11                     |                           |             |  |
| 10                               | QPSK       | 25      | 0         | 21.96                    | 21.99                       | 21.99                     | 23                        | 1           |  |
| 10                               | QPSK       | 25      | 12        | 21.99                    | 22.02                       | 22.03                     |                           |             |  |
| 10                               | QPSK       | 25      | 25        | 21.99                    | 22.04                       | 22.04                     |                           |             |  |
| 10                               | QPSK       | 50      | 0         | 21.93                    | 21.97                       | 21.97                     | 23                        | 1           |  |
| 10                               | 16QAM      | 1       | 0         | 22.17                    | 22.27                       | 22.22                     |                           |             |  |
| 10                               | 16QAM      | 1       | 25        | 22.20                    | 22.34                       | 22.26                     |                           |             |  |
| 10                               | 16QAM      | 1       | 49        | 22.24                    | 22.35                       | 22.28                     | 22                        | 2           |  |
| 10                               | 16QAM      | 25      | 0         | 21.15                    | 21.22                       | 21.15                     |                           |             |  |
| 10                               | 16QAM      | 25      | 12        | 21.18                    | 21.24                       | 21.23                     |                           |             |  |
| 10                               | 16QAM      | 25      | 25        | 21.17                    | 21.22                       | 21.21                     | 22                        | 2           |  |
| 10                               | 16QAM      | 50      | 0         | 21.12                    | 21.18                       | 21.14                     |                           |             |  |
| 10                               | 64QAM      | 1       | 0         | 21.40                    | 21.49                       | 21.44                     |                           |             |  |
| 10                               | 64QAM      | 1       | 25        | 21.40                    | 21.52                       | 21.43                     | 22                        | 2           |  |
| 10                               | 64QAM      | 1       | 49        | 21.44                    | 21.61                       | 21.59                     |                           |             |  |
| 10                               | 64QAM      | 25      | 0         | 20.38                    | 20.44                       | 20.45                     |                           |             |  |
| 10                               | 64QAM      | 25      | 12        | 20.42                    | 20.48                       | 20.48                     | 21                        | 3           |  |
| 10                               | 64QAM      | 25      | 25        | 20.42                    | 20.45                       | 20.44                     |                           |             |  |
| 10                               | 64QAM      | 50      | 0         | 20.31                    | 20.41                       | 20.36                     |                           |             |  |
| Channel                          |            |         |           | 20975                    | 21100                       | 21425                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)                  |            |         |           | 20975                    | 20935                       | 20965                     |                           |             |  |
| 5                                | QPSK       | 1       | 0         | 23.00                    | 23.09                       | 23.07                     | 24                        | 0           |  |
| 5                                | QPSK       | 1       | 12        | 23.09                    | 23.21                       | 23.11                     |                           |             |  |
| 5                                | QPSK       | 1       | 24        | 23.05                    | 23.15                       | 23.16                     |                           |             |  |
| 5                                | QPSK       | 12      | 0         | 21.96                    | 22.04                       | 21.96                     | 23                        | 1           |  |
| 5                                | QPSK       | 12      | 7         | 21.95                    | 22.07                       | 22.05                     |                           |             |  |
| 5                                | QPSK       | 12      | 13        | 21.97                    | 22.03                       | 22.05                     |                           |             |  |
| 5                                | QPSK       | 25      | 0         | 21.97                    | 22.05                       | 22.03                     | 23                        | 1           |  |
| 5                                | 16QAM      | 1       | 0         | 22.15                    | 22.25                       | 22.27                     |                           |             |  |
| 5                                | 16QAM      | 1       | 12        | 22.17                    | 22.33                       | 22.25                     |                           |             |  |
| 5                                | 16QAM      | 1       | 24        | 22.21                    | 22.32                       | 22.25                     | 22                        | 2           |  |
| 5                                | 16QAM      | 12      | 0         | 21.18                    | 21.20                       | 21.22                     |                           |             |  |
| 5                                | 16QAM      | 12      | 7         | 21.22                    | 21.28                       | 21.26                     |                           |             |  |
| 5                                | 16QAM      | 12      | 13        | 21.15                    | 21.24                       | 21.22                     | 22                        | 2           |  |
| 5                                | 16QAM      | 25      | 0         | 21.16                    | 21.24                       | 21.19                     |                           |             |  |
| 5                                | 64QAM      | 1       | 0         | 21.33                    | 21.40                       | 21.37                     |                           |             |  |
| 5                                | 64QAM      | 1       | 12        | 21.37                    | 21.54                       | 21.38                     | 22                        | 2           |  |
| 5                                | 64QAM      | 1       | 24        | 21.36                    | 21.46                       | 21.38                     |                           |             |  |
| 5                                | 64QAM      | 12      | 0         | 20.33                    | 20.42                       | 20.42                     |                           |             |  |
| 5                                | 64QAM      | 12      | 7         | 20.47                    | 20.51                       | 20.51                     | 21                        | 3           |  |
| 5                                | 64QAM      | 12      | 13        | 20.41                    | 20.47                       | 20.42                     |                           |             |  |
| 5                                | 64QAM      | 25      | 0         | 20.37                    | 20.44                       | 20.42                     |                           |             |  |

| Band 12 (700MHz Low Band)<br>Part 27F(only on channel required) |            |         |           |                          |                             |                           |                           |             |  |
|-----------------------------------------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW (MHz)                                                        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Channel                                                         |            |         |           | 23060                    | 23065                       | 23130                     |                           |             |  |
| Frequency (MHz)                                                 |            |         |           | 704                      | 707.5                       | 711                       |                           |             |  |
| 10                                                              | QPSK       | 1       | 0         | 22.79                    | 22.96                       | 22.83                     | 24                        | 0           |  |
| 10                                                              | QPSK       | 1       | 25        | 22.82                    | 22.79                       | 22.81                     |                           |             |  |
| 10                                                              | QPSK       | 1       | 49        | 22.86                    | 22.85                       | 22.82                     |                           |             |  |
| 10                                                              | QPSK       | 25      | 0         | 21.84                    | 21.85                       | 21.84                     | 23                        | 1           |  |
| 10                                                              | QPSK       | 25      | 12        | 21.84                    | 21.74                       | 21.82                     |                           |             |  |
| 10                                                              | QPSK       | 25      | 25        | 21.80                    | 21.78                       | 21.76                     |                           |             |  |
| 10                                                              | QPSK       | 50      | 0         | 21.81                    | 21.86                       | 21.74                     | 23                        | 1           |  |
| 10                                                              | 16QAM      | 1       | 0         | 22.03                    | 21.97                       | 21.99                     |                           |             |  |
| 10                                                              | 16QAM      | 1       | 25        | 21.99                    | 21.99                       | 22.01                     |                           |             |  |
| 10                                                              | 16QAM      | 1       | 49        | 22.04                    | 22.04                       | 22.00                     | 22                        | 2           |  |
| 10                                                              | 16QAM      | 25      | 0         | 20.82                    | 20.83                       | 20.83                     |                           |             |  |
| 10                                                              | 16QAM      | 25      | 12        | 21.06                    | 20.96                       | 21.03                     |                           |             |  |
| 10                                                              | 16QAM      | 25      | 25        | 21.00                    | 20.98                       | 20.99                     | 22                        | 2           |  |
| 10                                                              | 16QAM      | 50      | 0         | 20.98                    | 20.95                       | 20.94                     |                           |             |  |
| 10                                                              | 64QAM      | 1       | 0         | 21.29                    | 21.27                       | 21.25                     |                           |             |  |
| 10                                                              | 64QAM      | 1       | 25        | 21.34                    | 21.29                       | 21.21                     | 22                        | 2           |  |
| 10                                                              | 64QAM      | 1       | 49        | 21.30                    | 21.27                       | 21.22                     |                           |             |  |
| 10                                                              | 64QAM      | 25      | 0         | 20.10                    | 20.09                       | 20.08                     |                           |             |  |
| 10                                                              | 64QAM      | 25      | 12        | 20.30                    | 20.19                       | 20.27                     | 21                        | 3           |  |
| 10                                                              | 64QAM      | 25      | 25        | 20.20                    | 20.18                       | 20.15                     |                           |             |  |
| 10                                                              | 64QAM      | 50      | 0         | 20.20                    | 20.17                       | 20.16                     |                           |             |  |
| Channel                                                         |            |         |           | 23035                    | 23095                       | 23155                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz)                                                 |            |         |           | 701.5                    | 707.5                       | 713.5                     |                           |             |  |
| 5                                                               | QPSK       | 1       | 0         | 22.81                    | 22.80                       | 22.79                     | 24                        | 0           |  |
| 5                                                               | QPSK       | 1       | 12        | 22.90                    | 22.91                       | 22.88                     |                           |             |  |
| 5                                                               | QPSK       | 1       | 24        | 22.86                    | 22.83                       | 22.85                     |                           |             |  |
| 5                                                               | QPSK       | 12      | 0         | 21.74                    | 21.75                       | 21.71                     | 23                        | 1           |  |
| 5                                                               | QPSK       | 12      | 7         | 21.85                    | 21.80                       | 21.78                     |                           |             |  |
| 5                                                               | QPSK       | 12      | 13        | 21.78                    | 21.76                       | 21.75                     |                           |             |  |
| 5                                                               | QPSK       | 25      | 0         | 21.77                    | 21.77                       | 21.69                     | 23                        | 1           |  |
| 5                                                               | 16QAM      | 1       | 0         | 21.96                    | 21.96                       | 21.90                     |                           |             |  |
| 5                                                               | 16QAM      | 1       | 12        | 22.04                    | 21.98                       | 21.99                     |                           |             |  |
| 5                                                               | 16QAM      | 1       | 24        | 21.99                    | 21.94                       | 21.97                     | 22                        | 2           |  |
| 5                                                               | 16QAM      | 12      | 0         | 21.00                    | 20.96                       | 20.93                     |                           |             |  |
| 5                                                               | 16QAM      | 12      | 7         | 21.05                    | 21.01                       | 21.00                     |                           |             |  |
| 5                                                               | 16QAM      | 12      | 13        | 21.01                    | 20.99                       | 20.97                     | 22                        | 2           |  |
| 5                                                               | 16QAM      | 25      | 0         | 21.03                    | 21.01                       | 21.03                     |                           |             |  |
| 5                                                               | 16QAM      | 25      | 0         | 21.12                    | 21.08                       | 21.08                     |                           |             |  |
| 5                                                               | 64QAM      | 1       | 12        | 21.15                    | 21.12                       | 21.16                     | 22                        | 2           |  |
| 5                                                               | 64QAM      | 1       | 24        | 21.16                    | 21.13                       | 21.14                     |                           |             |  |
| 5                                                               | 64QAM      | 12      | 0         | 20.18                    | 20.18                       | 20.14                     |                           |             |  |
| 5                                                               | 64QAM      | 12      | 7         | 20.25                    | 20.26                       | 20.25                     | 21                        | 3           |  |
| 5                                                               | 64QAM      | 12      | 13        | 20.23                    | 20.23                       | 20.18                     |                           |             |  |
| 5                                                               | 64QAM      | 25      | 0         | 20.26                    | 20.24                       | 20.17                     |                           |             |  |
| Channel                                                         |            |         |           | 23025                    | 23095                       | 23165                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz)                                                 |            |         |           | 700.5                    | 707.5                       | 714.5                     |                           |             |  |
| 3                                                               | QPSK       | 1       | 0         | 22.95                    | 22.83                       | 22.81                     | 24                        | 0           |  |
| 3                                                               | QPSK       | 1       | 8         | 22.93                    | 22.93                       | 22.92                     |                           |             |  |
| 3                                                               | QPSK       | 1       | 14        | 22.85                    | 22.88                       | 22.81                     |                           |             |  |
| 3                                                               | QPSK       | 8       | 0         | 21.83                    | 21.83                       | 21.72                     | 23                        | 1           |  |
| 3                                                               | QPSK       | 8       | 4         | 21.81                    | 21.83                       | 21.76                     |                           |             |  |
| 3                                                               | QPSK       | 15      | 0         | 21.81                    | 21.78                       | 21.69                     |                           |             |  |
| 3                                                               | 16QAM      | 1       | 0         | 22.08                    | 21.95                       | 21.97                     | 23                        | 1           |  |
| 3                                                               | 16QAM      | 1       | 8         | 22.16                    | 22.12                       | 22.06                     |                           |             |  |
| 3                                                               | 16QAM      | 14      | 0         | 22.04                    | 22.05                       | 21.95                     |                           |             |  |
| 3                                                               | 16QAM      | 8       | 0         | 21.09                    | 20.99                       | 20.98                     | 22                        | 2           |  |
| 3                                                               | 16QAM      | 8       | 4         | 21.10                    | 21.07                       | 21.05                     |                           |             |  |
| 3                                                               | 16QAM      | 15      | 0         | 21.06                    | 21.05                       | 21.04                     |                           |             |  |
| 3                                                               | 64QAM      | 1       | 0         | 21.22                    | 21.11                       | 21.10                     | 22                        | 2           |  |
| 3                                                               | 64QAM      | 1       | 8         | 21.26                    | 21.12                       | 21.17                     |                           |             |  |
| 3                                                               | 64QAM      | 1       | 14        | 21.18                    | 21.16                       | 21.13                     |                           |             |  |
| 3                                                               | 64QAM      | 8       | 0         | 20.30                    | 20.19                       | 20.17                     | 21                        | 3           |  |
| 3                                                               | 64QAM      | 8       | 4         | 20.31                    | 20.25                       | 20.23                     |                           |             |  |
| 3                                                               | 64QAM      | 8       | 7         | 20.27                    | 20.28                       | 20.22                     |                           |             |  |
| 3                                                               | 64QAM      | 15      | 0         | 20.25                    | 20.25                       | 20.17                     | 21                        | 3           |  |
| 3                                                               | 64QAM      | 15      | 0         | 20.17                    | 20.15                       | 20.13                     |                           |             |  |
| 3                                                               | 64QAM      | 15      | 0         | 21.02                    | 20.99                       | 20.93                     |                           |             |  |
| Channel                                                         |            |         |           | 23017                    | 23095                       | 23173                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz)                                                 |            |         |           | 699.5                    | 707.5                       | 715.3                     |                           |             |  |
| 1.4                                                             | QPSK       | 1       | 0         | 22.88                    | 22.82                       | 22.75                     | 24                        | 0           |  |
| 1.4                                                             | QPSK       | 1       | 3         | 22.85                    | 22.84                       | 22.79                     |                           |             |  |
| 1.4                                                             | QPSK       | 1       | 5         | 22.72                    | 22.83                       | 22.76                     |                           |             |  |
| 1.4                                                             | QPSK       | 3       | 0         | 22.87                    | 22.73                       | 22.78                     | 23                        | 1           |  |
| 1.4                                                             | QPSK       | 3       | 3         | 22.91                    | 22.84                       | 22.83                     |                           |             |  |
| 1.4                                                             | QPSK       | 3       | 3         | 22.69                    | 22.83                       | 22.77                     |                           |             |  |
| 1.4                                                             | QPSK       | 6       | 0         | 21.74                    | 21.71                       | 21.65                     | 23                        | 1           |  |
| 1.4                                                             | 16QAM      | 1       | 0         | 21.96                    | 21.88                       | 21.89                     |                           |             |  |
| 1.4                                                             | 16QAM      | 1       | 3         | 22.02                    | 22.04                       | 21.96                     |                           |             |  |
| 1.4                                                             | 16QAM      | 1       | 5         | 21.88                    | 21.95                       | 21.87                     | 23                        | 1           |  |
| 1.4                                                             | 16QAM      | 3       | 0         | 21.79                    | 21.68                       | 21.69                     |                           |             |  |
| 1.4                                                             | 16QAM      | 3       | 1         | 21.62                    | 21.76                       | 21.72                     |                           |             |  |
| 1.4                                                             | 16QAM      | 3       | 1         | 21.78                    | 21.71                       | 21.65                     | 22                        | 2           |  |
| 1.4                                                             | 16QAM      | 6       | 0         | 21.04                    | 20.99                       | 20.93                     |                           |             |  |
| 1.4                                                             | 64QAM      | 1       | 0         | 21.13                    | 21.01                       | 21.03                     |                           |             |  |
| 1.4                                                             | 64QAM      | 1       | 3         | 21.19                    | 21.12                       | 21.06                     | 22                        | 2           |  |
| 1.4                                                             | 64QAM      | 1       | 5         | 21.17                    | 21.07                       | 20.99                     |                           |             |  |
| 1.4                                                             | 64QAM      | 3       | 0         | 21.06                    | 20.94                       | 20.96                     |                           |             |  |
| 1.4                                                             | 64QAM      | 3       | 1         | 21.11                    | 21.08                       | 20.99                     | 21                        | 3           |  |
| 1.4                                                             | 64QAM      | 3       | 3         | 21.04                    | 21                          | 20.95                     |                           |             |  |
| 1.4                                                             | 64QAM      | 6       | 0         | 20.2                     | 20.15                       | 20.11                     |                           |             |  |

| Band 17 (700MHz Band)<br>Part 27H(only on channel required) |            |         |           |                          |                             |                           |                           |             |  |
|-------------------------------------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]                                                    | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                                                     |            |         |           | 2370                     | 2370                        | 2380                      |                           |             |  |
| Frequency (MHz)                                             |            |         |           | 709                      | 710                         | 711                       |                           |             |  |
| 10                                                          | QPSK       | 1       | 0         | 22.83                    | 22.91                       | 22.82                     | 24                        | 0           |  |
| 10                                                          | QPSK       | 1       | 25        | 22.84                    | 22.83                       | 22.78                     |                           |             |  |
| 10                                                          | QPSK       | 1       | 49        | 22.84                    | 22.79                       | 22.78                     |                           |             |  |
| 10                                                          | QPSK       | 25      | 0         | 21.70                    | 21.84                       | 21.68                     |                           |             |  |
| 10                                                          | QPSK       | 25      | 12        | 21.83                    | 21.74                       | 21.74                     | 23                        | 1           |  |
| 10                                                          | QPSK       | 25      | 25        | 21.81                    | 21.79                       | 21.80                     |                           |             |  |
| 10                                                          | QPSK       | 50      | 0         | 21.81                    | 21.84                       | 21.72                     |                           |             |  |
| 10                                                          | 16QAM      | 1       | 0         | 22.00                    | 21.99                       | 22.09                     |                           |             |  |
| 10                                                          | 16QAM      | 1       | 25        | 22.04                    | 22.03                       | 22.00                     | 23                        | 1           |  |
| 10                                                          | 16QAM      | 1       | 49        | 22.07                    | 22.01                       | 21.99                     |                           |             |  |
| 10                                                          | 16QAM      | 25      | 0         | 20.90                    | 20.93                       | 20.88                     |                           |             |  |
| 10                                                          | 16QAM      | 25      | 12        | 21.03                    | 20.95                       | 20.91                     |                           |             |  |
| 10                                                          | 16QAM      | 25      | 25        | 21.01                    | 20.96                       | 20.98                     | 22                        | 2           |  |
| 10                                                          | 16QAM      | 50      | 0         | 21.00                    | 20.89                       | 20.90                     |                           |             |  |
| 10                                                          | 64QAM      | 1       | 0         | 21.33                    | 21.24                       | 21.33                     |                           |             |  |
| 10                                                          | 64QAM      | 1       | 25        | 21.31                    | 21.29                       | 21.31                     |                           |             |  |
| 10                                                          | 64QAM      | 1       | 49        | 21.27                    | 21.27                       | 21.26                     | 22                        | 2           |  |
| 10                                                          | 64QAM      | 25      | 0         | 20.17                    | 20.14                       | 20.16                     |                           |             |  |
| 10                                                          | 64QAM      | 25      | 12        | 20.28                    | 20.22                       | 20.17                     |                           |             |  |
| 10                                                          | 64QAM      | 25      | 25        | 20.21                    | 20.19                       | 20.21                     |                           |             |  |
| 10                                                          | 64QAM      | 50      | 0         | 20.24                    | 20.12                       | 20.15                     | 21                        | 3           |  |
| Channel                                                     |            |         |           | 2375                     | 2370                        | 23825                     |                           |             |  |
| Frequency (MHz)                                             |            |         |           | 709.5                    | 710                         | 710.5                     |                           |             |  |
| 5                                                           | QPSK       | 1       | 0         | 22.80                    | 22.79                       | 22.73                     | 24                        | 0           |  |
| 5                                                           | QPSK       | 1       | 12        | 22.89                    | 22.80                       | 22.82                     |                           |             |  |
| 5                                                           | QPSK       | 1       | 24        | 22.85                    | 22.85                       | 22.78                     |                           |             |  |
| 5                                                           | QPSK       | 12      | 0         | 21.71                    | 21.71                       | 21.67                     |                           |             |  |
| 5                                                           | QPSK       | 12      | 7         | 21.82                    | 21.75                       | 21.75                     | 23                        | 1           |  |
| 5                                                           | QPSK       | 12      | 13        | 21.76                    | 21.77                       | 21.73                     |                           |             |  |
| 5                                                           | QPSK       | 25      | 0         | 21.79                    | 21.71                       | 21.68                     |                           |             |  |
| 5                                                           | 16QAM      | 1       | 0         | 21.92                    | 21.90                       | 21.90                     |                           |             |  |
| 5                                                           | 16QAM      | 1       | 12        | 21.99                    | 22.03                       | 21.96                     | 23                        | 1           |  |
| 5                                                           | 16QAM      | 1       | 24        | 21.99                    | 21.97                       | 21.91                     |                           |             |  |
| 5                                                           | 16QAM      | 12      | 0         | 20.94                    | 20.96                       | 20.92                     |                           |             |  |
| 5                                                           | 16QAM      | 12      | 7         | 21.03                    | 20.97                       | 20.99                     |                           |             |  |
| 5                                                           | 16QAM      | 12      | 13        | 21.02                    | 20.98                       | 20.95                     | 22                        | 2           |  |
| 5                                                           | 16QAM      | 25      | 0         | 21.02                    | 20.96                       | 20.99                     |                           |             |  |
| 5                                                           | 64QAM      | 1       | 0         | 21.10                    | 21.11                       | 21.06                     |                           |             |  |
| 5                                                           | 64QAM      | 1       | 12        | 21.17                    | 21.16                       | 21.12                     |                           |             |  |
| 5                                                           | 64QAM      | 1       | 24        | 21.16                    | 21.15                       | 21.09                     | 22                        | 2           |  |
| 5                                                           | 64QAM      | 12      | 0         | 20.15                    | 20.15                       | 20.10                     |                           |             |  |
| 5                                                           | 64QAM      | 12      | 7         | 20.26                    | 20.18                       | 20.21                     |                           |             |  |
| 5                                                           | 64QAM      | 12      | 13        | 20.26                    | 20.22                       | 20.17                     |                           |             |  |
| 5                                                           | 64QAM      | 25      | 0         | 20.22                    | 20.15                       | 20.12                     | 21                        | 3           |  |

| Band 26 for FCC<br>(only on channel required) |            |         |           |                          |                             |                           |                        |          |  |
|-----------------------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|----------|--|
| BW (MHz)                                      | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR (dB) |  |
| Channel                                       |            |         |           | 26705                    | 26965                       | 26965                     |                        |          |  |
| Frequency (MHz)                               |            |         |           | 821.5                    | 831.5                       | 841.5                     |                        |          |  |
| 15                                            | QPSK       | 1       | 0         | 22.54                    | 22.76                       | 22.69                     | 24                     | 0        |  |
| 15                                            | QPSK       | 1       | 37        | 22.55                    | 22.46                       | 22.43                     |                        |          |  |
| 15                                            | QPSK       | 1       | 74        | 22.44                    | 22.41                       | 22.33                     |                        |          |  |
| 15                                            | QPSK       | 36      | 0         | 21.36                    | 21.51                       | 21.26                     |                        |          |  |
| 15                                            | QPSK       | 36      | 20        | 21.42                    | 21.31                       | 21.29                     | 23                     | 1        |  |
| 15                                            | QPSK       | 36      | 39        | 21.38                    | 21.29                       | 21.22                     |                        |          |  |
| 15                                            | QPSK       | 75      | 0         | 21.36                    | 21.42                       | 21.26                     |                        |          |  |
| 15                                            | 16QAM      | 1       | 0         | 21.63                    | 21.50                       | 21.53                     |                        |          |  |
| 15                                            | 16QAM      | 1       | 37        | 21.70                    | 21.61                       | 21.56                     | 23                     | 1        |  |
| 15                                            | 16QAM      | 1       | 74        | 21.59                    | 21.55                       | 21.49                     |                        |          |  |
| 15                                            | 16QAM      | 36      | 0         | 20.62                    | 20.49                       | 20.50                     |                        |          |  |
| 15                                            | 16QAM      | 36      | 39        | 20.67                    | 20.58                       | 20.52                     |                        |          |  |
| 15                                            | 16QAM      | 36      | 39        | 20.62                    | 20.54                       | 20.50                     | 22                     | 2        |  |
| 15                                            | 16QAM      | 75      | 0         | 20.60                    | 20.53                       | 20.47                     |                        |          |  |
| 15                                            | 64QAM      | 1       | 0         | 20.74                    | 20.59                       | 20.64                     |                        |          |  |
| 15                                            | 64QAM      | 1       | 37        | 20.84                    | 20.78                       | 20.74                     |                        |          |  |
| 15                                            | 64QAM      | 1       | 74        | 20.74                    | 20.68                       | 20.63                     | 22                     | 2        |  |
| 15                                            | 64QAM      | 36      | 0         | 19.81                    | 19.69                       | 19.69                     |                        |          |  |
| 15                                            | 64QAM      | 36      | 20        | 19.86                    | 19.78                       | 19.75                     |                        |          |  |
| 15                                            | 64QAM      | 36      | 39        | 19.81                    | 19.74                       | 19.70                     |                        |          |  |
| 15                                            | 64QAM      | 75      | 0         | 19.82                    | 19.74                       | 19.67                     | 21                     | 3        |  |
| Channel                                       |            |         |           | 26740                    | 26985                       | 26990                     |                        |          |  |
| Frequency (MHz)                               |            |         |           | 819                      | 831.5                       | 844                       |                        |          |  |
| 10                                            | QPSK       | 1       | 0         | 22.67                    | 22.28                       | 22.28                     | 24                     | 0        |  |
| 10                                            | QPSK       | 1       | 25        | 22.46                    | 22.38                       | 22.32                     |                        |          |  |
| 10                                            | QPSK       | 1       | 49        | 22.43                    | 22.34                       | 22.24                     |                        |          |  |
| 10                                            | QPSK       | 25      | 0         | 22.42                    | 22.37                       | 22.30                     |                        |          |  |
| 10                                            | QPSK       | 25      | 12        | 22.49                    | 22.39                       | 22.35                     | 23                     | 1        |  |
| 10                                            | QPSK       | 25      | 25        | 22.45                    | 22.35                       | 22.29                     |                        |          |  |
| 10                                            | QPSK       | 50      | 0         | 21.32                    | 21.22                       | 21.15                     |                        |          |  |
| 10                                            | 16QAM      | 1       | 0         | 21.55                    | 21.45                       | 21.40                     |                        |          |  |
| 10                                            | 16QAM      | 1       | 25        | 21.59                    | 21.53                       | 21.44                     | 23                     | 1        |  |
| 10                                            | 16QAM      | 1       | 49        | 21.53                    | 21.43                       | 21.36                     |                        |          |  |
| 10                                            | 16QAM      | 25      | 0         | 21.35                    | 21.26                       | 21.19                     |                        |          |  |
| 10                                            | 16QAM      | 25      | 12        | 21.36                    | 21.29                       | 21.24                     |                        |          |  |
| 10                                            | 16QAM      | 25      | 25        | 21.30                    | 21.24                       | 21.17                     | 22                     | 2        |  |
| 10                                            | 16QAM      | 50      | 0         | 20.59                    | 20.46                       | 20.44                     |                        |          |  |
| 10                                            | 64QAM      | 1       | 0         | 20.73                    | 20.63                       | 20.58                     |                        |          |  |
| 10                                            | 64QAM      | 1       | 25        | 20.76                    | 20.64                       | 20.54                     |                        |          |  |
| 10                                            | 64QAM      | 1       | 49        | 20.70                    | 20.61                       | 20.56                     | 22                     | 2        |  |
| 10                                            | 64QAM      | 25      | 0         | 19.85                    | 19.77                       | 19.72                     |                        |          |  |
| 10                                            | 64QAM      | 25      | 12        | 19.91                    | 19.81                       | 19.77                     |                        |          |  |
| 10                                            | 64QAM      | 25      | 25        | 19.86                    | 19.74                       | 19.69                     |                        |          |  |
| 10                                            | 64QAM      | 50      | 0         | 19.73                    | 19.64                       | 19.61                     | 21                     | 3        |  |
| Channel                                       |            |         |           | 26715                    | 26965                       | 27015                     |                        |          |  |
| Frequency (MHz)                               |            |         |           | 816.5                    | 831.5                       | 846.5                     |                        |          |  |
| 5                                             | QPSK       | 1       | 0         | 22.63                    | 22.56                       | 22.46                     | 24                     | 0        |  |
| 5                                             | QPSK       | 1       | 12        | 22.69                    | 22.60                       | 22.50                     |                        |          |  |
| 5                                             | QPSK       | 1       | 24        | 22.61                    | 22.50                       | 22.41                     |                        |          |  |
| 5                                             | QPSK       | 12      | 0         | 22.68                    | 22.58                       | 22.51                     |                        |          |  |
| 5                                             | QPSK       | 12      | 7         | 22.71                    | 22.60                       | 22.55                     | 23                     | 1        |  |
| 5                                             | QPSK       | 12      | 13        | 22.65                    | 22.56                       | 22.46                     |                        |          |  |
| 5                                             | QPSK       | 25      | 0         | 21.48                    | 21.43                       | 21.34                     |                        |          |  |
| 5                                             | 16QAM      | 1       | 0         | 21.69                    | 21.68                       | 21.65                     |                        |          |  |
| 5                                             | 16QAM      | 1       | 12        | 21.73                    | 21.71                       | 21.64                     | 23                     | 1        |  |
| 5                                             | 16QAM      | 1       | 24        | 21.69                    | 21.62                       | 21.52                     |                        |          |  |
| 5                                             | 16QAM      | 12      | 0         | 21.56                    | 21.48                       | 21.38                     |                        |          |  |
| 5                                             | 16QAM      | 12      | 7         | 21.58                    | 21.55                       | 21.44                     |                        |          |  |
| 5                                             | 16QAM      | 12      | 13        | 21.50                    | 21.45                       | 21.32                     | 22                     | 2        |  |
| 5                                             | 16QAM      | 25      | 0         | 20.76                    | 20.69                       | 20.57                     |                        |          |  |
| 5                                             | 64QAM      | 1       | 0         | 20.89                    | 20.83                       | 20.84                     |                        |          |  |
| 5                                             | 64QAM      | 1       | 12        | 20.89                    | 20.85                       | 20.83                     |                        |          |  |
| 5                                             | 64QAM      | 1       | 24        | 20.82                    | 20.85                       | 20.76                     | 22                     | 2        |  |
| 5                                             | 64QAM      | 12      | 0         | 20.02                    | 20.00                       | 19.93                     |                        |          |  |
| 5                                             | 64QAM      | 12      | 7         | 20.05                    | 20.04                       | 19.93                     |                        |          |  |
| 5                                             | 64QAM      | 12      | 13        | 19.97                    | 19.97                       | 19.85                     |                        |          |  |
| 5                                             | 64QAM      | 25      | 0         | 19.94                    | 19.86                       | 19.79                     | 21                     | 3        |  |
| Channel                                       |            |         |           | 26705                    | 26865                       | 27025                     |                        |          |  |
| Frequency (MHz)                               |            |         |           | 816.5                    | 831.5                       | 847.5                     |                        |          |  |
| 3                                             | QPSK       | 1       | 0         | 22.47                    | 22.32                       | 22.28                     | 24                     | 0        |  |
| 3                                             | QPSK       | 1       | 8         | 22.49                    | 22.42                       | 22.44                     |                        |          |  |
| 3                                             | QPSK       | 1       | 14        | 22.42                    | 22.36                       | 22.31                     |                        |          |  |
| 3                                             | QPSK       | 8       | 0         | 21.37                    | 21.21                       | 21.24                     |                        |          |  |
| 3                                             | QPSK       | 8       | 4         | 21.40                    | 21.36                       | 21.24                     | 23                     | 1        |  |
| 3                                             | QPSK       | 8       | 7         | 21.35                    | 21.30                       | 21.27                     |                        |          |  |
| 3                                             | QPSK       | 15      | 0         | 21.41                    | 21.29                       | 21.21                     |                        |          |  |
| 3                                             | 16QAM      | 1       | 0         | 21.61                    | 21.43                       | 21.40                     |                        |          |  |
| 3                                             | 16QAM      | 1       | 8         | 21.63                    | 21.57                       | 21.54                     | 23                     | 1        |  |
| 3                                             | 16QAM      | 1       | 14        | 21.53                    | 21.48                       | 21.44                     |                        |          |  |
| 3                                             | 16QAM      | 8       | 0         | 20.58                    | 20.46                       | 20.40                     | 22                     | 2        |  |
| 3                                             | 16QAM      | 8       | 4         | 20.60                    | 20.57                       | 20.47                     |                        |          |  |
| 3                                             | 16QAM      | 8       | 7         | 20.55                    | 20.51                       | 20.45                     |                        |          |  |
| 3                                             | 16QAM      | 15      | 0         | 20.58                    | 20.50                       | 20.43                     |                        |          |  |
| 3                                             | 64QAM      | 1       | 0         | 20.76                    | 20.58                       | 20.51                     | 22                     | 2        |  |
| 3                                             | 64QAM      | 1       | 8         | 20.78                    | 20.73                       | 20.70                     |                        |          |  |
| 3                                             | 64QAM      | 1       | 14        | 20.70                    | 20.64                       | 20.54                     |                        |          |  |
| 3                                             | 64QAM      | 8       | 0         | 19.80                    | 19.67                       | 19.59                     |                        |          |  |
| 3                                             | 64QAM      | 8       | 4         | 19.87                    | 19.77                       | 19.72                     | 21                     | 3        |  |
| 3                                             | 64QAM      | 8       | 7         | 19.80                    | 19.72                       | 19.67                     |                        |          |  |
| 3                                             | 64QAM      | 15      | 0         | 19.81                    | 19.72                       | 19.68                     |                        |          |  |
| Channel                                       |            |         |           | 26990                    | 27095                       | 27103                     |                        |          |  |
| Frequency (MHz)                               |            |         |           | 814.7                    | 831.5                       | 848.3                     |                        |          |  |
| 1.4                                           | QPSK       | 1       | 0         | 22.30                    | 22.24                       | 22.26                     | 24                     | 0        |  |
| 1.4                                           | QPSK       | 1       | 3         | 22.54                    | 22.46                       | 22.45                     |                        |          |  |
| 1.4                                           | QPSK       | 1       | 5         | 22.29                    | 22.16                       | 22.18                     |                        |          |  |
| 1.4                                           | QPSK       | 3       | 0         | 22.21                    | 22.05                       | 22.03                     |                        |          |  |
| 1.4                                           | QPSK       | 3       | 1         | 22.28                    | 22.07                       | 22.09                     | 23                     | 1        |  |
| 1.4                                           | QPSK       | 3       | 3         | 22.14                    | 22.06                       | 22.03                     |                        |          |  |
| 1.4                                           | QPSK       | 6       | 0         | 21.45                    | 21.33                       | 21.26                     |                        |          |  |
| 1.4                                           | 16QAM      | 1       | 0         | 21.52                    | 21.43                       | 21.41                     |                        |          |  |
| 1.4                                           | 16QAM      | 1       | 3         | 21.72                    | 21.65                       | 21.64                     | 23                     | 1        |  |
| 1.4                                           | 16QAM      | 1       | 5         | 21.45                    | 21.35                       | 21.38                     |                        |          |  |
| 1.4                                           | 16QAM      | 3       | 0         | 21.44                    | 21.22                       | 21.25                     |                        |          |  |
| 1.4                                           | 16QAM      | 3       | 1         | 21.47                    | 21.32                       | 21.29                     |                        |          |  |
| 1.4                                           | 16QAM      | 3       | 3         | 21.34                    | 21.21                       | 21.21                     | 22                     | 2        |  |
| 1.4                                           | 16QAM      | 6       | 0         | 20.64                    | 20.52                       | 20.44                     |                        |          |  |
| 1.4                                           | 64QAM      | 1       | 0         | 20.69                    | 20.69                       | 20.55                     |                        |          |  |
| 1.4                                           | 64QAM      | 1       | 3         | 21.01                    | 20.84                       | 20.91                     |                        |          |  |
| 1.4                                           | 64QAM      | 1       | 5         | 20.86                    | 20.76                       | 20.71                     | 22                     | 2        |  |
| 1.4                                           | 64QAM      | 3       | 0         | 20.66                    | 20.49                       | 20.48                     |                        |          |  |
| 1.4                                           | 64QAM      | 3       | 1         | 20.73                    | 20.58                       | 20.55                     |                        |          |  |
| 1.4                                           | 64QAM      | 3       | 3         | 20.59                    | 20.45                       | 20.46                     |                        |          |  |
| 1.4                                           | 64QAM      | 6       | 0         | 19.87                    | 19.74                       | 19.69                     | 21                     | 3        |  |

| Band 38(only on channel required) |            |         |           |                    |                    |                     |                     |          |  |
|-----------------------------------|------------|---------|-----------|--------------------|--------------------|---------------------|---------------------|----------|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch./Freq | Power Mid Ch./Freq | Power High Ch./Freq | Turn-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           |                    |                    |                     |                     |          |  |
| Frequency (MHz)                   |            |         |           | 38750              | 38800              | 38150               |                     |          |  |
| 20 QPSK 1                         | 0          | 22.68   | 22.72     | 22.74              | 22.76              | 22.78               | 24                  | 0        |  |
| 20 QPSK 1                         | 49         | 22.74   | 22.78     | 22.82              | 22.86              | 22.90               |                     |          |  |
| 20 QPSK 1                         | 99         | 22.79   | 22.81     | 22.82              | 22.83              | 22.84               |                     |          |  |
| 20 QPSK 50                        | 0          | 21.49   | 21.63     | 21.43              | 21.45              | 21.47               | 23                  | 1        |  |
| 20 QPSK 50                        | 24         | 21.61   | 21.54     | 21.65              | 21.67              | 21.69               |                     |          |  |
| 20 QPSK 50                        | 50         | 21.55   | 21.56     | 21.54              | 21.55              | 21.56               |                     |          |  |
| 20 QPSK 100                       | 0          | 21.48   | 21.53     | 21.43              | 21.45              | 21.47               |                     |          |  |
| 20 IQAM 1                         | 0          | 21.61   | 21.60     | 21.61              | 21.61              | 21.61               | 23                  | 1        |  |
| 20 IQAM 1                         | 49         | 21.63   | 21.65     | 21.65              | 21.65              | 21.65               |                     |          |  |
| 20 IQAM 1                         | 99         | 21.73   | 21.75     | 21.74              | 21.74              | 21.74               |                     |          |  |
| 20 IQAM 50                        | 0          | 20.81   | 20.84     | 20.84              | 20.84              | 20.84               | 22                  | 2        |  |
| 20 IQAM 50                        | 24         | 20.83   | 20.76     | 20.78              | 20.78              | 20.78               |                     |          |  |
| 20 IQAM 50                        | 50         | 20.78   | 20.77     | 20.77              | 20.77              | 20.77               |                     |          |  |
| 20 IQAM 100                       | 0          | 20.72   | 20.65     | 20.67              | 20.67              | 20.67               |                     |          |  |
| 20 IQAM 1                         | 0          | 20.72   | 20.67     | 20.70              | 20.70              | 20.70               | 22                  | 2        |  |
| 20 IQAM 1                         | 49         | 20.64   | 20.64     | 20.70              | 20.70              | 20.70               |                     |          |  |
| 20 IQAM 1                         | 99         | 20.72   | 20.78     | 20.79              | 20.79              | 20.79               |                     |          |  |
| 20 IQAM 50                        | 0          | 19.75   | 19.79     | 19.82              | 19.82              | 19.82               | 21                  | 3        |  |
| 20 IQAM 50                        | 24         | 20.00   | 19.93     | 19.94              | 19.94              | 19.94               |                     |          |  |
| 20 IQAM 50                        | 50         | 19.94   | 19.92     | 19.96              | 19.96              | 19.96               |                     |          |  |
| 20 IQAM 100                       | 0          | 19.88   | 19.95     | 19.94              | 19.94              | 19.94               |                     |          |  |
| Channel                           |            |         |           |                    |                    |                     |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2577.5             | 2580               | 2617.5              | Turn-up limit (dBm) | MPR (dB) |  |
| 15 QPSK 1                         | 0          | 22.71   | 22.83     | 22.72              | 22.72              | 22.72               | 24                  | 0        |  |
| 15 QPSK 1                         | 37         | 22.69   | 22.70     | 22.76              | 22.76              | 22.76               |                     |          |  |
| 15 QPSK 1                         | 74         | 22.69   | 22.78     | 22.77              | 22.77              | 22.77               |                     |          |  |
| 15 QPSK 36                        | 0          | 21.48   | 21.41     | 21.44              | 21.44              | 21.44               | 23                  | 1        |  |
| 15 QPSK 36                        | 20         | 21.58   | 21.55     | 21.56              | 21.56              | 21.56               |                     |          |  |
| 15 QPSK 36                        | 39         | 21.51   | 21.55     | 21.58              | 21.58              | 21.58               |                     |          |  |
| 15 QPSK 75                        | 0          | 21.50   | 21.47     | 21.53              | 21.53              | 21.53               |                     |          |  |
| 15 IQAM 1                         | 0          | 21.59   | 21.59     | 21.61              | 21.61              | 21.61               | 23                  | 1        |  |
| 15 IQAM 1                         | 37         | 21.56   | 21.63     | 21.62              | 21.62              | 21.62               |                     |          |  |
| 15 IQAM 1                         | 74         | 21.70   | 21.71     | 21.72              | 21.72              | 21.72               |                     |          |  |
| 15 IQAM 36                        | 0          | 20.60   | 20.53     | 20.60              | 20.60              | 20.60               | 22                  | 2        |  |
| 15 IQAM 36                        | 20         | 20.72   | 20.70     | 20.73              | 20.73              | 20.73               |                     |          |  |
| 15 IQAM 36                        | 39         | 20.69   | 20.69     | 20.76              | 20.76              | 20.76               |                     |          |  |
| 15 IQAM 75                        | 0          | 20.68   | 20.69     | 20.72              | 20.72              | 20.72               |                     |          |  |
| 15 IQAM 1                         | 0          | 20.54   | 20.54     | 20.67              | 20.67              | 20.67               | 22                  | 2        |  |
| 15 IQAM 1                         | 37         | 20.52   | 20.54     | 20.72              | 20.72              | 20.72               |                     |          |  |
| 15 IQAM 1                         | 74         | 20.70   | 20.70     | 20.75              | 20.75              | 20.75               |                     |          |  |
| 15 IQAM 36                        | 0          | 19.90   | 19.87     | 19.91              | 19.91              | 19.91               | 21                  | 3        |  |
| 15 IQAM 36                        | 20         | 20.01   | 19.99     | 20.03              | 20.03              | 20.03               |                     |          |  |
| 15 IQAM 36                        | 39         | 19.95   | 19.99     | 20.03              | 20.03              | 20.03               |                     |          |  |
| 15 IQAM 75                        | 0          | 19.96   | 19.90     | 19.92              | 19.92              | 19.92               |                     |          |  |
| Channel                           |            |         |           |                    |                    |                     |                     |          |  |
| Frequency (MHz)                   |            |         |           | 25875              | 2595               | 2615                | Turn-up limit (dBm) | MPR (dB) |  |
| 10 QPSK 1                         | 0          | 22.27   | 22.58     | 22.71              | 22.71              | 22.71               | 24                  | 0        |  |
| 10 QPSK 1                         | 49         | 22.42   | 22.74     | 22.76              | 22.76              | 22.76               |                     |          |  |
| 10 QPSK 25                        | 0          | 21.47   | 21.45     | 21.49              | 21.49              | 21.49               | 23                  | 1        |  |
| 10 QPSK 25                        | 25         | 21.53   | 21.57     | 21.61              | 21.61              | 21.61               |                     |          |  |
| 10 QPSK 50                        | 0          | 21.47   | 21.48     | 21.53              | 21.53              | 21.53               |                     |          |  |
| 10 IQAM 1                         | 0          | 21.24   | 21.57     | 21.65              | 21.65              | 21.65               | 23                  | 1        |  |
| 10 IQAM 1                         | 25         | 21.55   | 21.62     | 21.69              | 21.69              | 21.69               |                     |          |  |
| 10 IQAM 1                         | 49         | 21.32   | 21.67     | 21.73              | 21.73              | 21.73               |                     |          |  |
| 10 IQAM 25                        | 0          | 20.64   | 20.60     | 20.69              | 20.69              | 20.69               | 22                  | 2        |  |
| 10 IQAM 25                        | 12         | 20.76   | 20.77     | 20.81              | 20.81              | 20.81               |                     |          |  |
| 10 IQAM 50                        | 0          | 20.72   | 20.70     | 20.78              | 20.78              | 20.78               |                     |          |  |
| 10 IQAM 1                         | 0          | 20.36   | 20.68     | 20.80              | 20.80              | 20.80               | 22                  | 2        |  |
| 10 IQAM 1                         | 25         | 20.63   | 20.68     | 20.77              | 20.77              | 20.77               |                     |          |  |
| 10 IQAM 1                         | 49         | 20.37   | 20.74     | 20.86              | 20.86              | 20.86               |                     |          |  |
| 10 IQAM 25                        | 0          | 19.87   | 19.88     | 19.92              | 19.92              | 19.92               | 21                  | 3        |  |
| 10 IQAM 25                        | 12         | 19.99   | 19.99     | 20.13              | 20.13              | 20.13               |                     |          |  |
| 10 IQAM 25                        | 25         | 19.91   | 19.96     | 20.05              | 20.05              | 20.05               |                     |          |  |
| 10 IQAM 50                        | 0          | 19.86   | 19.91     | 19.96              | 19.96              | 19.96               |                     |          |  |
| Channel                           |            |         |           |                    |                    |                     |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2572.5             | 2595               | 2617.5              | Turn-up limit (dBm) | MPR (dB) |  |
| 5 QPSK 1                          | 0          | 22.76   | 22.58     | 22.69              | 22.69              | 22.69               | 24                  | 0        |  |
| 5 QPSK 1                          | 12         | 22.69   | 22.70     | 22.76              | 22.76              | 22.76               |                     |          |  |
| 5 QPSK 1                          | 24         | 22.61   | 22.67     | 22.73              | 22.73              | 22.73               |                     |          |  |
| 5 QPSK 12                         | 0          | 21.54   | 21.55     | 21.70              | 21.70              | 21.70               | 23                  | 1        |  |
| 5 QPSK 12                         | 7          | 21.62   | 21.70     | 21.76              | 21.76              | 21.76               |                     |          |  |
| 5 QPSK 12                         | 13         | 21.61   | 21.69     | 21.73              | 21.73              | 21.73               |                     |          |  |
| 5 QPSK 25                         | 0          | 21.56   | 21.59     | 21.69              | 21.69              | 21.69               | 23                  | 1        |  |
| 5 IQAM 1                          | 0          | 21.52   | 21.52     | 21.67              | 21.67              | 21.67               |                     |          |  |
| 5 IQAM 1                          | 12         | 21.67   | 21.80     | 21.84              | 21.84              | 21.84               |                     |          |  |
| 5 IQAM 1                          | 24         | 21.57   | 21.67     | 21.72              | 21.72              | 21.72               |                     |          |  |
| 5 IQAM 12                         | 0          | 20.72   | 20.74     | 20.89              | 20.89              | 20.89               | 22                  | 2        |  |
| 5 IQAM 12                         | 7          | 20.81   | 20.86     | 20.93              | 20.93              | 20.93               |                     |          |  |
| 5 IQAM 12                         | 13         | 20.78   | 20.83     | 20.92              | 20.92              | 20.92               |                     |          |  |
| 5 IQAM 25                         | 0          | 20.78   | 20.82     | 20.92              | 20.92              | 20.92               |                     |          |  |
| 5 IQAM 1                          | 0          | 20.55   | 20.54     | 20.68              | 20.68              | 20.68               | 22                  | 2        |  |
| 5 IQAM 1                          | 12         | 20.59   | 20.67     | 20.75              | 20.75              | 20.75               |                     |          |  |
| 5 IQAM 1                          | 24         | 20.60   | 20.66     | 20.72              | 20.72              | 20.72               |                     |          |  |
| 5 IQAM 12                         | 0          | 19.98   | 19.97     | 20.09              | 20.09              | 20.09               | 21                  | 3        |  |
| 5 IQAM 12                         | 7          | 20.03   | 20.13     | 20.15              | 20.15              | 20.15               |                     |          |  |
| 5 IQAM 12                         | 13         | 20.02   | 20.09     | 20.14              | 20.14              | 20.14               |                     |          |  |
| 5 IQAM 25                         | 0          | 19.99   | 19.99     | 20.13              | 20.13              | 20.13               |                     |          |  |

| Band 41 (2.6G Band) |            |         |           |                    |                           |                       |                            |                     |    |
|---------------------|------------|---------|-----------|--------------------|---------------------------|-----------------------|----------------------------|---------------------|----|
| BW (MHz)            | Modulation | RB Size | RB Offset | Power Low Ch./Freq | Power Low Middle Ch./Freq | Power Middle Ch./Freq | Power High Middle Ch./Freq | Power High Ch./Freq |    |
| Channel             |            |         |           |                    |                           |                       |                            |                     |    |
| Frequency (MHz)     |            |         |           | 39750              | 40185                     | 40620                 | 41055                      | 41490               |    |
| 20                  | QPSK       | 1       | 0         | 22.64              | 22.64                     | 22.89                 | 22.84                      | 22.82               |    |
| 20                  | QPSK       | 1       | 49        | 22.73              | 22.72                     | 22.81                 | 22.65                      | 22.68               | 24 |
| 20                  | QPSK       | 1       | 99        | 22.71              | 22.71                     | 22.59                 | 22.49                      | 22.78               |    |
| 20                  | QPSK       | 50      | 0         | 21.26              | 21.23                     | 21.56                 | 21.51                      | 21.37               |    |
| 20                  | QPSK       | 50      | 24        | 21.38              | 21.38                     | 21.46                 | 21.43                      | 21.54               | 23 |
| 20                  | QPSK       | 50      | 50        | 21.34              | 21.14                     | 21.38                 | 21.40                      | 21.38               | 1  |
| 20                  | QPSK       | 100     | 0         | 21.31              | 21.33                     | 21.49                 | 21.39                      | 21.47               |    |
| 20                  | 16QAM      | 1       | 0         | 21.58              | 21.54                     | 21.44                 | 21.34                      | 21.52               |    |
| 20                  | 16QAM      | 1       | 49        | 21.36              | 21.34                     | 21.44                 | 21.57                      | 21.54               | 23 |
| 20                  | 16QAM      | 1       | 99        | 21.35              | 21.36                     | 21.25                 | 21.15                      | 21.48               |    |
| 20                  | 16QAM      | 50      | 0         | 20.12              | 20.23                     | 20.21                 | 20.25                      | 20.16               |    |
| 20                  | 16QAM      | 50      | 24        | 20.13              | 20.08                     | 20.21                 | 20.32                      | 20.27               |    |
| 20                  | 16QAM      | 50      | 50        | 20.06              | 20.12                     | 20.18                 | 20.10                      | 20.26               | 2  |
| 20                  | 16QAM      | 100     | 0         | 20.03              | 20.21                     | 20.11                 | 20.22                      | 20.18               |    |
| 20                  | 16QAM      | 1       | 0         | 20.40              | 20.32                     | 20.32                 | 20.21                      | 20.29               |    |
| 20                  | 16QAM      | 1       | 49        | 20.31              | 20.30                     | 20.42                 | 20.48                      | 20.52               | 22 |
| 20                  | 16QAM      | 1       | 99        | 20.23              | 20.37                     | 20.23                 | 20.06                      | 20.49               |    |
| 20                  | 16QAM      | 50      | 0         | 19.38              | 19.33                     | 19.36                 | 19.53                      | 19.38               |    |
| 20                  | 16QAM      | 50      | 24        | 19.38              | 19.34                     | 19.47                 | 19.57                      | 19.55               | 21 |
| 20                  | 16QAM      | 50      | 50        | 19.36              | 19.18                     | 19.44                 | 19.39                      | 19.54               |    |
| 20                  | 16QAM      | 100     | 0         | 19.38              | 19.34                     | 19.48                 | 19.38                      | 19.54               |    |
| Channel             |            |         |           | 39725              | 40173                     | 40620                 | 41055                      | 41490               |    |
| Frequency (MHz)     |            |         |           | 39725              | 25483                     | 25993                 | 26378                      | 26855               |    |
| 15                  | QPSK       | 1       | 0         | 22.72              | 22.45                     | 22.49                 | 22.72                      | 22.51               |    |
| 15                  | QPSK       | 1       | 37        | 22.74              | 22.65                     | 22.77                 | 22.62                      | 22.76               | 24 |
| 15                  | QPSK       | 1       | 74        | 22.73              | 22.46                     | 22.64                 | 22.64                      | 22.74               |    |
| 15                  | QPSK       | 36      | 0         | 21.31              | 21.23                     | 21.33                 | 21.48                      | 21.37               |    |
| 15                  | QPSK       | 36      | 20        | 21.41              | 21.32                     | 21.44                 | 21.54                      | 21.48               | 23 |
| 15                  | QPSK       | 36      | 39        | 21.20              | 21.25                     | 21.42                 | 21.44                      | 21.48               |    |
| 15                  | QPSK       | 75      | 0         | 21.36              | 21.26                     | 21.39                 | 21.49                      | 21.44               |    |
| 15                  | 16QAM      | 1       | 0         | 21.49              | 21.14                     | 21.17                 | 21.62                      | 21.20               | 23 |
| 15                  | 16QAM      | 1       | 37        | 21.39              | 21.30                     | 21.36                 | 21.48                      | 21.42               |    |
| 15                  | 16QAM      | 1       | 74        | 21.41              | 21.12                     | 21.35                 | 21.31                      | 21.44               |    |
| 15                  | 16QAM      | 36      | 0         | 20.21              | 20.22                     | 20.12                 | 20.12                      | 20.09               | 22 |
| 15                  | 16QAM      | 36      | 20        | 20.08              | 20.23                     | 20.09                 | 20.18                      | 20.13               |    |
| 15                  | 16QAM      | 36      | 39        | 20.21              | 20.24                     | 20.09                 | 20.15                      | 20.15               |    |
| 15                  | 16QAM      | 75      | 0         | 20.08              | 20.12                     | 20.10                 | 20.20                      | 20.14               | 2  |
| 15                  | 16QAM      | 1       | 0         | 20.41              | 20.11                     | 20.12                 | 20.35                      | 20.11               |    |
| 15                  | 16QAM      | 1       | 37        | 20.34              | 20.30                     | 20.34                 | 20.39                      | 20.39               | 22 |
| 15                  | 16QAM      | 1       | 74        | 20.29              | 20.08                     | 20.29                 | 20.16                      | 20.42               |    |
| 15                  | 16QAM      | 36      | 0         | 19.38              | 19.27                     | 19.37                 | 19.53                      | 19.40               | 21 |
| 15                  | 16QAM      | 36      | 20        | 19.43              | 19.34                     | 19.50                 | 19.55                      | 19.51               |    |
| 15                  | 16QAM      | 36      | 39        | 19.32              | 19.29                     | 19.47                 | 19.43                      | 19.53               |    |
| 15                  | 16QAM      | 75      | 0         | 19.42              | 19.29                     | 19.42                 | 19.53                      | 19.47               |    |
| Channel             |            |         |           | 39675              | 40148                     | 40620                 | 41093                      | 41565               |    |
| Frequency (MHz)     |            |         |           | 39675              | 25413                     | 25923                 | 26413                      | 26890               |    |
| 10                  | QPSK       | 1       | 0         | 22.71              | 22.43                     | 22.53                 | 22.73                      | 22.59               |    |
| 10                  | QPSK       | 1       | 25        | 22.73              | 22.74                     | 22.84                 | 22.65                      | 22.76               | 24 |
| 10                  | QPSK       | 1       | 49        | 22.75              | 22.45                     | 22.61                 | 22.68                      | 22.81               |    |
| 10                  | QPSK       | 25      | 0         | 21.50              | 21.43                     | 21.51                 | 21.65                      | 21.81               |    |
| 10                  | QPSK       | 25      | 12        | 21.50              | 21.53                     | 21.61                 | 21.81                      | 21.81               | 23 |
| 10                  | QPSK       | 50      | 0         | 21.46              | 21.44                     | 21.54                 | 21.64                      | 21.68               |    |
| 10                  | QPSK       | 50      | 1         | 21.50              | 21.27                     | 21.30                 | 21.52                      | 21.62               |    |
| 10                  | 16QAM      | 1       | 25        | 21.54              | 21.51                     | 21.62                 | 21.33                      | 21.84               |    |
| 10                  | 16QAM      | 1       | 49        | 21.54              | 21.25                     | 21.36                 | 21.45                      | 21.41               | 23 |
| 10                  | 16QAM      | 25      | 0         | 20.34              | 20.31                     | 20.31                 | 20.13                      | 20.21               |    |
| 10                  | 16QAM      | 25      | 12        | 20.28              | 20.25                     | 20.33                 | 20.46                      | 20.40               | 22 |
| 10                  | 16QAM      | 50      | 0         | 20.25              | 20.13                     | 20.18                 | 20.30                      | 20.25               |    |
| 10                  | 16QAM      | 50      | 1         | 20.35              | 20.17                     | 20.25                 | 20.38                      | 20.28               | 2  |
| 10                  | 16QAM      | 1       | 0         | 20.06              | 20.32                     | 20.37                 | 20.50                      | 20.48               |    |
| 10                  | 16QAM      | 1       | 25        | 20.09              | 20.56                     | 20.63                 | 20.72                      | 20.68               | 22 |
| 10                  | 16QAM      | 1       | 49        | 20.08              | 20.33                     | 20.46                 | 20.52                      | 20.49               |    |
| 10                  | 16QAM      | 25      | 0         | 19.84              | 19.43                     | 19.53                 | 19.63                      | 19.58               | 21 |
| 10                  | 16QAM      | 25      | 12        | 19.86              | 19.54                     | 19.65                 | 19.72                      | 19.68               |    |
| 10                  | 16QAM      | 50      | 0         | 19.83              | 19.46                     | 19.56                 | 19.64                      | 19.57               |    |
| 10                  | 16QAM      | 50      | 1         | 19.84              | 19.46                     | 19.53                 | 19.62                      | 19.58               |    |
| Channel             |            |         |           | 39675              | 40148                     | 40620                 | 41093                      | 41565               |    |
| Frequency (MHz)     |            |         |           | 39675              | 25413                     | 25923                 | 26413                      | 26890               |    |
| 5                   | QPSK       | 1       | 0         | 22.72              | 22.46                     | 22.68                 | 22.72                      | 22.57               |    |
| 5                   | QPSK       | 1       | 12        | 22.75              | 22.71                     | 22.74                 | 22.82                      | 22.82               | 24 |
| 5                   | QPSK       | 1       | 24        | 22.75              | 22.67                     | 22.66                 | 22.74                      | 22.74               |    |
| 5                   | QPSK       | 12      | 0         | 21.52              | 21.46                     | 21.55                 | 21.65                      | 21.81               |    |
| 5                   | QPSK       | 12      | 7         | 21.54              | 21.51                     | 21.60                 | 21.68                      | 21.84               | 23 |
| 5                   | QPSK       | 12      | 13        | 21.53              | 21.46                     | 21.58                 | 21.64                      | 21.62               |    |
| 5                   | QPSK       | 25      | 0         | 21.48              | 21.46                     | 21.56                 | 21.66                      | 21.82               |    |
| 5                   | 16QAM      | 1       | 0         | 21.58              | 21.47                     | 21.52                 | 21.19                      | 21.85               |    |
| 5                   | 16QAM      | 1       | 12        | 21.65              | 21.63                     | 21.19                 | 21.19                      | 21.65               | 23 |
| 5                   | 16QAM      | 1       | 24        | 21.57              | 21.51                     | 21.61                 | 21.65                      | 21.68               |    |
| 5                   | 16QAM      | 12      | 0         | 20.18              | 20.17                     | 20.25                 | 20.31                      | 20.31               | 22 |
| 5                   | 16QAM      | 12      | 7         | 20.26              | 20.21                     | 20.31                 | 20.40                      | 20.33               |    |
| 5                   | 16QAM      | 12      | 13        | 20.19              | 20.17                     | 20.27                 | 20.34                      | 20.30               |    |
| 5                   | 16QAM      | 25      | 0         | 20.23              | 20.21                     | 20.30                 | 20.41                      | 20.38               | 22 |
| 5                   | 16QAM      | 1       | 0         | 20.53              | 20.48                     | 20.52                 | 20.64                      | 20.63               |    |
| 5                   | 16QAM      | 1       | 12        | 20.54              | 20.49                     | 20.58                 | 20.70                      | 20.65               | 2  |
| 5                   | 16QAM      | 1       | 24        | 20.53              | 20.48                     | 20.55                 | 20.62                      | 20.61               |    |
| 5                   | 16QAM      | 12      | 0         | 19.50              | 19.46                     | 19.56                 | 19.69                      | 19.63               | 21 |
| 5                   | 16QAM      | 12      | 7         | 19.52              | 19.52                     | 19.60                 | 19.70                      | 19.66               |    |
| 5                   | 16QAM      | 12      | 13        | 19.52              | 19.49                     | 19.56                 | 19.63                      | 19.66               |    |
| 5                   | 16QAM      | 25      | 0         | 19.49              | 19.47                     | 19.57                 | 19.66                      | 19.60               |    |



Reduced Power Mode for Sensor On

| GSM850          | Burst-Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 854.2                     | 856.4 | 848.8 |                     | 854.2                     | 856.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.18                     | 29.67 | 29.74 | 31.50               | 21.18                     | 20.67 | 20.74 | 22.50               |
| GPRS 1 Tx slot  | 30.17                     | 29.85 | 29.73 | 31.50               | 21.17                     | 20.85 | 20.73 | 22.50               |
| GPRS 2 Tx slots | 29.12                     | 29.21 | 29.10 | 30.50               | 23.12                     | 23.21 | 23.10 | 24.50               |
| GPRS 3 Tx slots | 27.98                     | 28.25 | 27.88 | 29.00               | 23.70                     | 23.99 | 23.62 | 24.74               |
| GPRS 4 Tx slots | 26.43                     | 26.21 | 26.14 | 27.50               | 23.43                     | 23.21 | 23.14 | 24.50               |
| EDGE 1 Tx slot  | 24.12                     | 24.24 | 23.96 | 25.00               | 15.12                     | 15.34 | 14.96 | 16.00               |
| EDGE 2 Tx slots | 23.95                     | 24.12 | 23.90 | 24.50               | 17.95                     | 18.12 | 17.90 | 18.50               |
| EDGE 3 Tx slots | 21.28                     | 21.45 | 21.20 | 23.00               | 17.02                     | 17.19 | 16.94 | 18.74               |
| EDGE 4 Tx slots | 20.40                     | 20.51 | 20.15 | 22.00               | 17.40                     | 17.51 | 17.15 | 18.00               |

| GSM1900         | Burst-Average Power (dBm) |        |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|--------|---------------------|---------------------------|--------|--------|---------------------|
|                 | 512                       | 661    | 810    |                     | 512                       | 661    | 810    |                     |
| TX Channel      | 512                       | 661    | 810    |                     | 512                       | 661    | 810    |                     |
| Frequency (MHz) | 1925.2                    | 1929.3 | 1933.2 |                     | 1925.2                    | 1929.3 | 1933.2 |                     |
| GSM 1 Tx slot   | 26.12                     | 26.10  | 26.05  | 26.50               | 17.12                     | 17.10  | 17.05  | 17.50               |
| GPRS 1 Tx slot  | 26.11                     | 26.09  | 26.03  | 26.50               | 17.11                     | 17.09  | 17.03  | 17.50               |
| GPRS 2 Tx slots | 25.58                     | 25.67  | 25.54  | 26.00               | 19.58                     | 19.57  | 19.54  | 20.00               |
| GPRS 3 Tx slots | 23.90                     | 23.85  | 23.67  | 24.00               | 19.84                     | 19.69  | 19.41  | 19.74               |
| GPRS 4 Tx slots | 21.87                     | 22.12  | 22.07  | 22.50               | 18.87                     | 19.12  | 19.07  | 19.50               |
| EDGE 1 Tx slot  | 21.83                     | 21.60  | 21.73  | 22.50               | 12.83                     | 12.80  | 12.73  | 13.50               |
| EDGE 2 Tx slots | 20.71                     | 20.81  | 20.64  | 21.50               | 14.71                     | 14.81  | 14.64  | 15.50               |
| EDGE 3 Tx slots | 18.52                     | 18.70  | 18.55  | 19.50               | 14.26                     | 14.44  | 14.29  | 15.24               |
| EDGE 4 Tx slots | 17.50                     | 17.82  | 17.83  | 18.50               | 14.50                     | 14.82  | 14.63  | 15.50               |

| Band            |                       | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) |
|-----------------|-----------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|
| TX Channel      |                       | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     |
| Rx Channel      |                       | 9662     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     |
| Frequency (MHz) |                       | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps          | 16.60    | 16.71 | 16.55  | 17.00               | 17.10    | 17.12  | 17.03  | 17.50               |
| 3GPP Rel 99     | RMC 12.2Kbps          | 16.70    | 16.76 | 16.77  | 17.00               | 17.12    | 17.15  | 17.08  | 17.50               |
| 3GPP Rel 6      | HS-DSPPA Subtest-1    | 16.27    | 16.38 | 16.12  | 17.00               | 16.65    | 16.70  | 16.66  | 17.50               |
| 3GPP Rel 6      | HS-DSPPA Subtest-2    | 16.21    | 16.31 | 16.17  | 17.00               | 16.86    | 16.69  | 16.67  | 17.50               |
| 3GPP Rel 6      | HS-DSPPA Subtest-3    | 15.73    | 15.67 | 15.81  | 16.50               | 16.15    | 16.36  | 16.19  | 17.00               |
| 3GPP Rel 6      | HS-DSPPA Subtest-4    | 15.69    | 15.69 | 15.69  | 16.50               | 16.18    | 16.22  | 16.14  | 17.00               |
| 3GPP Rel 6      | DC-HS-DSPPA Subtest-1 | 16.14    | 16.29 | 16.21  | 17.00               | 16.68    | 16.72  | 16.65  | 17.50               |
| 3GPP Rel 6      | DC-HS-DSPPA Subtest-2 | 16.20    | 16.32 | 16.23  | 17.00               | 16.71    | 16.82  | 16.82  | 17.50               |
| 3GPP Rel 6      | DC-HS-DSPPA Subtest-3 | 15.72    | 15.69 | 15.79  | 16.50               | 16.30    | 16.22  | 16.31  | 17.00               |
| 3GPP Rel 6      | DC-HS-DSPPA Subtest-4 | 15.67    | 15.78 | 15.69  | 16.50               | 16.30    | 16.08  | 16.28  | 17.00               |
| 3GPP Rel 6      | HS-UPA Subtest-1      | 16.07    | 16.25 | 16.19  | 17.00               | 16.63    | 16.53  | 16.81  | 17.50               |
| 3GPP Rel 6      | HS-UPA Subtest-2      | 14.22    | 14.20 | 14.16  | 15.00               | 14.78    | 14.52  | 14.76  | 15.50               |
| 3GPP Rel 6      | HS-UPA Subtest-3      | 15.09    | 15.21 | 15.24  | 16.00               | 15.65    | 15.04  | 15.54  | 16.50               |
| 3GPP Rel 6      | HS-UPA Subtest-4      | 14.05    | 14.31 | 14.28  | 15.00               | 14.68    | 14.61  | 14.75  | 15.50               |
| 3GPP Rel 6      | HS-UPA Subtest-5      | 16.11    | 16.10 | 16.28  | 17.00               | 16.82    | 16.78  | 16.60  | 17.50               |

| Band            |  | CDMA BCS |        |        | Tune-up Limit (dBm) | CDMA BCS1 |       |         | Tune-up Limit (dBm) |
|-----------------|--|----------|--------|--------|---------------------|-----------|-------|---------|---------------------|
| TX Channel      |  | 1013     | 384    | 777    |                     | 25        | 800   | 1175    |                     |
| Frequency (MHz) |  | 854.7    | 836.52 | 848.31 |                     | 1851.25   | 1860  | 1906.75 |                     |
| RC1 SO65        |  | 22.77    | 22.70  | 22.77  | 24.00               | 17.75     | 17.77 | 17.67   | 18.50               |
| RC3 SO65        |  | 22.93    | 23.05  | 22.89  | 24.00               | 17.72     | 17.92 | 17.83   | 18.50               |
| RC3 SO32 (+SCH) |  | 22.89    | 22.96  | 22.93  | 24.00               | 17.88     | 17.91 | 17.90   | 18.50               |
| RC3 SO32 (+SCH) |  | 22.82    | 22.84  | 22.85  | 24.00               | 17.57     | 17.69 | 17.75   | 18.50               |
| RTAP 153.6Kbps  |  | 22.94    | 23.02  | 22.89  | 24.00               | 17.81     | 17.86 | 17.83   | 18.50               |
| RTAP 496.8Kbps  |  | 22.79    | 22.71  | 23.01  | 24.00               | 17.79     | 17.81 | 17.82   | 18.50               |

**Reduced Power Mode for Hotspot On**

| GSM850          | Burst-Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 854.2                     | 856.4 | 848.8 | (dBm)               | 854.2                     | 856.4 | 848.8 | (dBm)               |
| GSM 1 Tx slot   | 30.18                     | 29.67 | 29.74 | 31.50               | 21.18                     | 20.67 | 20.74 | 22.50               |
| GPRS 1 Tx slot  | 30.17                     | 29.85 | 29.73 | 31.50               | 21.17                     | 20.85 | 20.73 | 22.50               |
| GPRS 2 Tx slots | 29.12                     | 29.21 | 29.10 | 30.50               | 23.12                     | 23.21 | 23.10 | 24.50               |
| GPRS 3 Tx slots | 27.98                     | 28.25 | 27.88 | 29.00               | 23.70                     | 23.99 | 23.62 | 24.74               |
| GPRS 4 Tx slots | 26.43                     | 26.21 | 26.14 | 27.50               | 23.43                     | 23.21 | 23.14 | 24.50               |
| EDGE 1 Tx slot  | 24.12                     | 24.24 | 23.96 | 25.00               | 15.12                     | 15.24 | 14.96 | 16.00               |
| EDGE 2 Tx slots | 23.95                     | 24.12 | 23.90 | 24.50               | 17.95                     | 18.12 | 17.90 | 18.50               |
| EDGE 3 Tx slots | 21.28                     | 21.45 | 21.20 | 23.00               | 17.62                     | 17.19 | 16.94 | 18.74               |
| EDGE 4 Tx slots | 20.40                     | 20.51 | 20.15 | 22.00               | 17.40                     | 17.51 | 17.15 | 19.00               |

| GSM1900         | Burst-Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz) | 1925.2                    | 1930  | 1935.2 | (dBm)               | 1925.2                    | 1930  | 1935.2 | (dBm)               |
| GSM 1 Tx slot   | 23.60                     | 23.55 | 23.46  | 24.00               | 14.60                     | 14.55 | 14.49  | 15.00               |
| GPRS 1 Tx slot  | 23.59                     | 23.54 | 23.47  | 24.00               | 14.59                     | 14.54 | 14.47  | 15.00               |
| GPRS 2 Tx slots | 22.95                     | 23.04 | 22.98  | 23.50               | 16.95                     | 17.04 | 16.98  | 17.50               |
| GPRS 3 Tx slots | 21.07                     | 21.29 | 21.43  | 21.50               | 16.81                     | 17.03 | 17.17  | 17.24               |
| GPRS 4 Tx slots | 19.31                     | 19.58 | 19.46  | 20.00               | 16.31                     | 16.58 | 16.46  | 17.00               |
| EDGE 1 Tx slot  | 19.23                     | 19.22 | 19.01  | 20.00               | 10.23                     | 10.22 | 10.01  | 11.00               |
| EDGE 2 Tx slots | 17.73                     | 17.88 | 17.59  | 19.00               | 11.73                     | 11.88 | 11.59  | 13.00               |
| EDGE 3 Tx slots | 15.71                     | 16.13 | 16.00  | 17.00               | 11.45                     | 11.87 | 11.74  | 12.74               |
| EDGE 4 Tx slots | 15.01                     | 15.05 | 15.10  | 16.00               | 12.01                     | 12.05 | 12.10  | 13.00               |

| Band            |                    | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|
| TX Channel      | Rx Channel         | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     |
| Frequency (MHz) |                    | 9662     | 9800  | 9938   | (dBm)               | 1537     | 1638   | 1738   | (dBm)               |
| 3GPP Rel 99     | AMR 12.2kops       | 1852.4   | 1880  | 1907.6 | 15.00               | 1712.4   | 1732.6 | 1752.6 | 16.50               |
| 3GPP Rel 99     | RMC 12.2kops       | 14.31    | 14.23 | 14.18  | 15.00               | 15.03    | 15.08  | 15.05  | 16.50               |
| 3GPP Rel 99     |                    | 14.20    | 14.44 | 14.34  | 15.00               | 15.27    | 15.35  | 15.31  | 16.50               |
| 3GPP Rel 6      | HS-DS-SS Subtest-1 | 13.82    | 13.68 | 13.64  | 15.00               | 14.75    | 14.78  | 14.72  | 16.50               |
| 3GPP Rel 6      | HS-DS-SS Subtest-2 | 13.67    | 13.64 | 13.70  | 15.00               | 14.63    | 14.70  | 14.76  | 16.50               |
| 3GPP Rel 6      | HS-DS-SS Subtest-3 | 13.21    | 13.38 | 13.21  | 14.50               | 14.27    | 14.11  | 14.15  | 16.00               |
| 3GPP Rel 6      | HS-DS-SS Subtest-4 | 13.16    | 13.25 | 13.37  | 14.50               | 14.17    | 14.30  | 14.28  | 16.00               |
| 3GPP Rel 6      | DC-HS-SS Subtest-1 | 13.79    | 13.62 | 13.84  | 15.00               | 14.78    | 14.81  | 14.84  | 16.50               |
| 3GPP Rel 6      | DC-HS-SS Subtest-2 | 13.74    | 13.69 | 13.70  | 15.00               | 14.67    | 14.82  | 14.82  | 16.50               |
| 3GPP Rel 6      | DC-HS-SS Subtest-3 | 13.10    | 13.24 | 13.18  | 14.50               | 14.20    | 14.28  | 14.10  | 16.00               |
| 3GPP Rel 6      | DC-HS-SS Subtest-4 | 13.10    | 13.29 | 13.19  | 14.50               | 14.22    | 14.10  | 14.19  | 16.00               |
| 3GPP Rel 6      | HSPA Subtest-1     | 13.77    | 13.64 | 13.69  | 15.00               | 14.72    | 14.74  | 14.75  | 16.50               |
| 3GPP Rel 6      | HSPA Subtest-2     | 11.61    | 11.76 | 11.67  | 13.00               | 12.68    | 12.69  | 12.67  | 14.50               |
| 3GPP Rel 6      | HSPA Subtest-3     | 12.73    | 12.82 | 12.74  | 14.00               | 13.56    | 13.65  | 13.57  | 15.50               |
| 3GPP Rel 6      | HSPA Subtest-4     | 11.52    | 11.83 | 11.81  | 13.00               | 12.66    | 12.74  | 12.72  | 14.50               |
| 3GPP Rel 6      | HSPA Subtest-5     | 13.66    | 13.71 | 13.66  | 15.00               | 14.63    | 14.77  | 14.73  | 16.50               |

| Band             |       | CDMA BCS |        |        | Tune-up Limit (dBm) | CDMA BCS1 |       |         | Tune-up Limit (dBm) |
|------------------|-------|----------|--------|--------|---------------------|-----------|-------|---------|---------------------|
| TX Channel       |       | 1013     | 384    | 777    |                     | 25        | 600   | 1175    |                     |
| Frequency (MHz)  |       | 854.7    | 836.52 | 848.31 | (dBm)               | 1851.25   | 1890  | 1908.75 | (dBm)               |
| RC1 SOSS         | 22.82 | 22.79    | 22.85  | 24.00  | 16.16               | 16.28     | 16.17 | 17.00   |                     |
| RC3 SOSS         | 22.82 | 23.03    | 22.95  | 24.00  | 16.29               | 16.37     | 16.31 | 17.00   |                     |
| RC3 SO32 (F+SCH) | 22.76 | 22.81    | 22.80  | 24.00  | 16.16               | 16.23     | 16.21 | 17.00   |                     |
| RC3 SO32 (F+SCH) | 22.88 | 22.77    | 22.86  | 24.00  | 16.13               | 16.26     | 16.15 | 17.00   |                     |
| RTAP 153.6kops   | 22.97 | 23.02    | 22.86  | 24.00  | 16.22               | 16.33     | 16.30 | 17.00   |                     |
| RTAP 408.0kops   | 22.79 | 22.73    | 23.01  | 24.00  | 16.21               | 16.21     | 16.21 | 17.00   |                     |



Reduced Power Mode for Handheld On

| GSM1900         | Power-Average Power (dBm) |       |        | Tune-up Limit (dBm) | Power-Average Power (dBm) |        |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|--------|-------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661    | 810   |                     |
| TX Channel      | 1850.2                    | 1860  | 1809.8 | 1850.2              | 1860                      | 1809.8 |       |                     |
| Frequency (MHz) | 1850.2                    | 1860  | 1809.8 | 1850.2              | 1860                      | 1809.8 |       |                     |
| GSM 1 Tx slot   | 27.52                     | 27.73 | 27.52  | 29.00               | 18.52                     | 18.73  | 18.52 | 20.00               |
| GPRS 1 Tx slot  | 27.51                     | 27.72 | 27.50  | 28.00               | 18.51                     | 18.72  | 18.50 | 20.00               |
| GPRS 2 Tx slot  | 27.09                     | 27.10 | 27.01  | 28.50               | 21.09                     | 21.10  | 21.01 | 22.50               |
| GPRS 3 Tx slot  | 25.87                     | 25.53 | 25.39  | 28.50               | 21.61                     | 21.27  | 21.13 | 22.24               |
| GPRS 4 Tx slot  | 23.52                     | 23.57 | 23.63  | 25.00               | 20.52                     | 20.57  | 20.63 | 22.00               |
| EDGE 1 Tx slot  | 23.52                     | 23.65 | 23.51  | 25.00               | 14.52                     | 14.65  | 14.51 | 16.00               |
| EDGE 2 Tx slot  | 22.08                     | 22.09 | 22.18  | 24.00               | 16.08                     | 16.09  | 16.18 | 18.00               |
| EDGE 3 Tx slot  | 20.17                     | 20.21 | 20.15  | 22.00               | 15.91                     | 15.95  | 15.89 | 17.74               |
| EDGE 4 Tx slot  | 19.10                     | 19.05 | 19.12  | 21.00               | 16.10                     | 16.05  | 16.12 | 18.00               |

| Band            |                    | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|
| TX Channel      |                    | 5262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     |
| RX Channel      |                    | 9682     | 9500  | 9538   |                     | 1537     | 1528   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 19.16    | 19.19 | 19.20  | 20.00               | 20.33    | 20.37  | 20.31  | 21.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 19.12    | 19.23 | 19.20  | 20.00               | 20.39    | 20.41  | 20.33  | 21.00               |
| 3GPP Rel 6      | HS-PA Subtest-1    | 18.83    | 18.66 | 18.88  | 19.00               | 20.01    | 20.04  | 20.03  | 21.00               |
| 3GPP Rel 6      | HS-PA Subtest-2    | 18.70    | 18.84 | 18.95  | 19.00               | 20.01    | 20.03  | 20.03  | 21.00               |
| 3GPP Rel 6      | HS-PA Subtest-3    | 18.48    | 18.41 | 18.46  | 18.50               | 20.11    | 20.02  | 20.01  | 20.50               |
| 3GPP Rel 6      | HS-PA Subtest-4    | 18.48    | 18.50 | 18.44  | 18.50               | 20.01    | 20.03  | 19.90  | 20.50               |
| 3GPP Rel 8      | DC-HS-PA Subtest-1 | 18.60    | 18.70 | 18.72  | 19.00               | 19.33    | 19.13  | 19.25  | 21.00               |
| 3GPP Rel 8      | DC-HS-PA Subtest-2 | 18.67    | 18.62 | 18.70  | 19.00               | 19.25    | 19.17  | 19.12  | 21.00               |
| 3GPP Rel 8      | DC-HS-PA Subtest-3 | 18.30    | 18.19 | 18.33  | 18.50               | 18.79    | 18.68  | 18.78  | 20.50               |
| 3GPP Rel 8      | DC-HS-PA Subtest-4 | 18.20    | 18.31 | 18.30  | 18.50               | 18.83    | 18.59  | 18.77  | 20.50               |
| 3GPP Rel 6      | HS-PA Subtest-1    | 18.77    | 18.81 | 18.71  | 19.00               | 19.13    | 19.20  | 19.21  | 21.00               |
| 3GPP Rel 6      | HS-PA Subtest-2    | 16.76    | 16.79 | 16.67  | 17.00               | 17.19    | 17.01  | 17.24  | 19.00               |
| 3GPP Rel 6      | HS-PA Subtest-3    | 17.78    | 17.82 | 17.70  | 18.00               | 18.11    | 18.21  | 18.24  | 20.00               |
| 3GPP Rel 6      | HS-PA Subtest-4    | 16.59    | 16.70 | 16.76  | 17.00               | 17.29    | 17.20  | 17.29  | 19.00               |
| 3GPP Rel 6      | HS-PA Subtest-5    | 18.77    | 18.81 | 18.57  | 19.00               | 19.24    | 19.11  | 19.13  | 21.00               |

| Band            |  | CDMA BC1 |       |         | Tune-up Limit (dBm) |
|-----------------|--|----------|-------|---------|---------------------|
| TX Channel      |  | 25       | 600   | 1175    |                     |
| Frequency (MHz) |  | 1851.25  | 1880  | 1906.75 |                     |
| RC1 SO55        |  | 21.32    | 21.31 | 21.16   | 21.50               |
| RC1 SO55        |  | 21.24    | 21.39 | 21.22   | 21.50               |
| RC1 SO32 (+SCH) |  | 21.25    | 21.31 | 21.27   | 21.50               |
| RC1 SO32 (+SCH) |  | 21.26    | 21.04 | 21.18   | 21.50               |
| RTAP 153 BKbps  |  | 21.28    | 21.35 | 21.21   | 21.50               |
| RTAP 406Kbps    |  | 21.25    | 21.34 | 21.33   | 21.50               |



Reduced Power Mode for Sensor On / Hotspot On / Handheld On

| Band 2 - Body Worn |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
|--------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|--|--|--|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| 20                 | QPSK       | 1       | 0         | 15.70                | 15.86                   | 15.74                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | QPSK       | 1       | 49        | 15.55                | 15.84                   | 15.61                 |                     |          |  |  |  |  |  |  |
| 20                 | QPSK       | 1       | 99        | 15.53                | 15.57                   | 15.50                 |                     |          |  |  |  |  |  |  |
| 20                 | QPSK       | 50      | 0         | 15.37                | 15.73                   | 15.43                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | QPSK       | 50      | 24        | 15.52                | 15.53                   | 15.49                 |                     |          |  |  |  |  |  |  |
| 20                 | QPSK       | 50      | 50        | 15.45                | 15.54                   | 15.47                 |                     |          |  |  |  |  |  |  |
| 20                 | QPSK       | 100     | 0         | 15.43                | 15.67                   | 15.46                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | 16QAM      | 1       | 0         | 15.72                | 15.80                   | 15.82                 |                     |          |  |  |  |  |  |  |
| 20                 | 16QAM      | 1       | 49        | 15.68                | 15.83                   | 15.73                 |                     |          |  |  |  |  |  |  |
| 20                 | 16QAM      | 1       | 99        | 15.58                | 15.72                   | 15.57                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | 16QAM      | 50      | 0         | 15.38                | 15.44                   | 15.41                 |                     |          |  |  |  |  |  |  |
| 20                 | 16QAM      | 50      | 24        | 15.50                | 15.53                   | 15.48                 |                     |          |  |  |  |  |  |  |
| 20                 | 16QAM      | 50      | 50        | 15.40                | 15.58                   | 15.51                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | 16QAM      | 100     | 0         | 15.43                | 15.50                   | 15.43                 |                     |          |  |  |  |  |  |  |
| 20                 | 64QAM      | 1       | 0         | 15.50                | 15.79                   | 15.69                 |                     |          |  |  |  |  |  |  |
| 20                 | 64QAM      | 1       | 49        | 15.43                | 15.43                   | 15.56                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | 64QAM      | 1       | 99        | 15.50                | 15.64                   | 15.34                 |                     |          |  |  |  |  |  |  |
| 20                 | 64QAM      | 50      | 0         | 15.39                | 15.43                   | 15.43                 |                     |          |  |  |  |  |  |  |
| 20                 | 64QAM      | 50      | 24        | 15.49                | 15.52                   | 15.51                 | 16.5                | 0        |  |  |  |  |  |  |
| 20                 | 64QAM      | 50      | 50        | 15.37                | 15.56                   | 15.47                 |                     |          |  |  |  |  |  |  |
| 20                 | 64QAM      | 100     | 0         | 15.45                | 15.48                   | 15.43                 |                     |          |  |  |  |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| 15                 | QPSK       | 1       | 0         | 13.36                | 13.45                   | 13.52                 | 16.5                | 0        |  |  |  |  |  |  |
| 15                 | QPSK       | 1       | 37        | 13.37                | 13.48                   | 13.48                 |                     |          |  |  |  |  |  |  |
| 15                 | QPSK       | 1       | 74        | 13.26                | 13.46                   | 13.35                 |                     |          |  |  |  |  |  |  |
| 15                 | QPSK       | 36      | 0         | 13.40                | 13.50                   | 13.44                 | 16.5                | 0        |  |  |  |  |  |  |
| 15                 | QPSK       | 36      | 20        | 13.52                | 13.54                   | 13.48                 |                     |          |  |  |  |  |  |  |
| 15                 | QPSK       | 75      | 0         | 13.45                | 13.46                   | 13.44                 |                     |          |  |  |  |  |  |  |
| 15                 | 16QAM      | 1       | 0         | 13.70                | 13.80                   | 13.83                 | 16.5                | 0        |  |  |  |  |  |  |
| 15                 | 16QAM      | 1       | 37        | 13.66                | 13.84                   | 13.76                 |                     |          |  |  |  |  |  |  |
| 15                 | 16QAM      | 1       | 74        | 13.56                | 13.77                   | 13.58                 |                     |          |  |  |  |  |  |  |
| 15                 | 16QAM      | 36      | 0         | 13.40                | 13.48                   | 13.44                 | 16.5                | 0        |  |  |  |  |  |  |
| 15                 | 16QAM      | 36      | 20        | 13.51                | 13.56                   | 13.48                 |                     |          |  |  |  |  |  |  |
| 15                 | 16QAM      | 75      | 0         | 13.46                | 13.49                   | 13.45                 |                     |          |  |  |  |  |  |  |
| 15                 | 64QAM      | 1       | 0         | 13.57                | 13.63                   | 13.71                 | 16.5                | 0        |  |  |  |  |  |  |
| 15                 | 64QAM      | 1       | 37        | 13.56                | 13.71                   | 13.67                 |                     |          |  |  |  |  |  |  |
| 15                 | 64QAM      | 1       | 74        | 13.42                | 13.66                   | 13.46                 |                     |          |  |  |  |  |  |  |
| 15                 | 64QAM      | 36      | 0         | 13.40                | 13.49                   | 13.44                 | 16.5                | 0        |  |  |  |  |  |  |
| 15                 | 64QAM      | 36      | 20        | 13.48                | 13.50                   | 13.48                 |                     |          |  |  |  |  |  |  |
| 15                 | 64QAM      | 75      | 0         | 13.48                | 13.49                   | 13.45                 |                     |          |  |  |  |  |  |  |
| 15                 | 64QAM      | 75      | 0         | 13.48                | 13.50                   | 13.45                 | 16.5                | 0        |  |  |  |  |  |  |
|                    |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| 10                 | QPSK       | 1       | 0         | 15.26                | 15.17                   | 15.52                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | QPSK       | 1       | 25        | 15.43                | 15.50                   | 15.42                 |                     |          |  |  |  |  |  |  |
| 10                 | QPSK       | 1       | 49        | 15.09                | 15.28                   | 15.37                 |                     |          |  |  |  |  |  |  |
| 10                 | QPSK       | 25      | 0         | 15.50                | 15.53                   | 15.46                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | QPSK       | 25      | 12        | 15.55                | 15.59                   | 15.53                 |                     |          |  |  |  |  |  |  |
| 10                 | QPSK       | 25      | 25        | 15.40                | 15.46                   | 15.48                 |                     |          |  |  |  |  |  |  |
| 10                 | QPSK       | 50      | 0         | 15.49                | 15.37                   | 15.42                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | 16QAM      | 1       | 0         | 15.64                | 15.54                   | 15.60                 |                     |          |  |  |  |  |  |  |
| 10                 | 16QAM      | 1       | 25        | 15.77                | 15.50                   | 15.85                 |                     |          |  |  |  |  |  |  |
| 10                 | 16QAM      | 1       | 49        | 15.44                | 15.63                   | 15.74                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | 16QAM      | 25      | 0         | 15.51                | 15.48                   | 15.44                 |                     |          |  |  |  |  |  |  |
| 10                 | 16QAM      | 25      | 12        | 15.57                | 15.58                   | 15.52                 |                     |          |  |  |  |  |  |  |
| 10                 | 16QAM      | 25      | 25        | 15.43                | 15.53                   | 15.46                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | 16QAM      | 50      | 0         | 15.46                | 15.50                   | 15.41                 |                     |          |  |  |  |  |  |  |
| 10                 | 64QAM      | 1       | 0         | 15.58                | 15.47                   | 15.60                 |                     |          |  |  |  |  |  |  |
| 10                 | 64QAM      | 1       | 25        | 15.72                | 15.37                   | 15.81                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | 64QAM      | 1       | 49        | 15.60                | 15.47                   | 15.66                 |                     |          |  |  |  |  |  |  |
| 10                 | 64QAM      | 25      | 0         | 15.53                | 15.53                   | 15.45                 |                     |          |  |  |  |  |  |  |
| 10                 | 64QAM      | 25      | 12        | 15.57                | 15.62                   | 15.51                 | 16.5                | 0        |  |  |  |  |  |  |
| 10                 | 64QAM      | 25      | 25        | 15.42                | 15.54                   | 15.46                 |                     |          |  |  |  |  |  |  |
| 10                 | 64QAM      | 50      | 0         | 15.46                | 15.48                   | 15.41                 |                     |          |  |  |  |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| 5                  | QPSK       | 1       | 0         | 15.44                | 15.42                   | 15.44                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | QPSK       | 1       | 12        | 15.60                | 15.64                   | 15.46                 |                     |          |  |  |  |  |  |  |
| 5                  | QPSK       | 1       | 24        | 15.43                | 15.45                   | 15.27                 |                     |          |  |  |  |  |  |  |
| 5                  | QPSK       | 12      | 0         | 15.63                | 15.64                   | 15.54                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | QPSK       | 12      | 7         | 15.60                | 15.60                   | 15.52                 |                     |          |  |  |  |  |  |  |
| 5                  | QPSK       | 12      | 13        | 15.56                | 15.57                   | 15.46                 |                     |          |  |  |  |  |  |  |
| 5                  | QPSK       | 25      | 0         | 15.59                | 15.59                   | 15.50                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | 16QAM      | 1       | 0         | 15.78                | 15.77                   | 15.76                 |                     |          |  |  |  |  |  |  |
| 5                  | 16QAM      | 1       | 12        | 15.71                | 15.64                   | 15.74                 |                     |          |  |  |  |  |  |  |
| 5                  | 16QAM      | 1       | 24        | 15.82                | 15.76                   | 15.59                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | 16QAM      | 12      | 0         | 15.63                | 15.63                   | 15.54                 |                     |          |  |  |  |  |  |  |
| 5                  | 16QAM      | 12      | 7         | 15.63                | 15.60                   | 15.54                 |                     |          |  |  |  |  |  |  |
| 5                  | 16QAM      | 12      | 13        | 15.60                | 15.57                   | 15.44                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | 16QAM      | 25      | 0         | 15.59                | 15.59                   | 15.50                 |                     |          |  |  |  |  |  |  |
| 5                  | 64QAM      | 1       | 0         | 15.70                | 15.67                   | 15.64                 |                     |          |  |  |  |  |  |  |
| 5                  | 64QAM      | 1       | 12        | 15.79                | 15.79                   | 15.68                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | 64QAM      | 1       | 24        | 15.66                | 15.60                   | 15.50                 |                     |          |  |  |  |  |  |  |
| 5                  | 64QAM      | 12      | 0         | 15.58                | 15.61                   | 15.52                 |                     |          |  |  |  |  |  |  |
| 5                  | 64QAM      | 12      | 7         | 15.61                | 15.61                   | 15.55                 | 16.5                | 0        |  |  |  |  |  |  |
| 5                  | 64QAM      | 12      | 13        | 15.58                | 15.56                   | 15.43                 |                     |          |  |  |  |  |  |  |
| 5                  | 64QAM      | 25      | 0         | 15.54                | 15.57                   | 15.48                 |                     |          |  |  |  |  |  |  |
| Channel            |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                      |                         |                       |                     |          |  |  |  |  |  |  |
| 3                  | QPSK       | 1       | 0         | 15.60                | 15.53                   | 15.48                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | QPSK       | 1       | 8         | 15.58                | 15.62                   | 15.47                 |                     |          |  |  |  |  |  |  |
| 3                  | QPSK       | 1       | 14        | 15.42                | 15.52                   | 15.31                 |                     |          |  |  |  |  |  |  |
| 3                  | QPSK       | 8       | 0         | 15.58                | 15.60                   | 15.53                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | QPSK       | 8       | 4         | 15.62                | 15.60                   | 15.54                 |                     |          |  |  |  |  |  |  |
| 3                  | QPSK       | 8       | 7         | 15.52                | 15.62                   | 15.41                 |                     |          |  |  |  |  |  |  |
| 3                  | QPSK       | 15      | 0         | 15.59                | 15.61                   | 15.51                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 0         | 15.59                | 15.60                   | 15.53                 |                     |          |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 8         | 15.63                | 15.54                   | 15.52                 |                     |          |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 14        | 15.62                | 15.52                   | 15.65                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | 16QAM      | 8       | 0         | 15.70                | 15.68                   | 15.60                 |                     |          |  |  |  |  |  |  |
| 3                  | 16QAM      | 8       | 4         | 15.66                | 15.65                   | 15.57                 |                     |          |  |  |  |  |  |  |
| 3                  | 16QAM      | 8       | 7         | 15.61                | 15.66                   | 15.51                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | 16QAM      | 15      | 0         | 15.65                | 15.59                   | 15.52                 |                     |          |  |  |  |  |  |  |
| 3                  | 64QAM      | 1       | 0         | 15.64                | 15.72                   | 15.71                 |                     |          |  |  |  |  |  |  |
| 3                  | 64QAM      | 1       | 8         | 15.63                | 15.51                   | 15.75                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | 64QAM      | 1       | 14        | 15.68                | 15.72                   | 15.53                 |                     |          |  |  |  |  |  |  |
| 3                  | 64QAM      | 8       | 0         | 15.68                | 15.61                   | 15.52                 |                     |          |  |  |  |  |  |  |
| 3                  | 64QAM      | 8       | 4         | 15.63                | 15.64                   | 15.52                 | 16.5                | 0        |  |  |  |  |  |  |
| 3                  | 64QAM      | 8       | 7         | 15.58                | 15.60                   | 15.45                 |                     |          |  |  |  |  |  |  |
| 3                  | 64QAM      | 15      | 0         | 15.59                | 15.58                   | 15.49                 |                     |          |  |  |  |  |  |  |

| Band 4 - Body Worn |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----|---|--|--|--|--|--|--|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |    |   |  |  |  |  |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 1       | 0         | 17.33                 | 17.42                    | 17.12                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 1       | 49        | 17.08                 | 17.12                    | 17.04                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 1       | 99        | 17.00                 | 17.25                    | 17.00                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 50      | 0         | 17.17                 | 17.25                    | 17.06                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 50      | 24        | 17.12                 | 17.12                    | 17.10                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 50      | 50        | 17.18                 | 17.16                    | 17.04                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | QPSK       | 100     | 0         | 17.20                 | 17.21                    | 17.03                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 1       | 0         | 16.91                 | 16.95                    | 16.84                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 1       | 49        | 17.14                 | 17.14                    | 17.03                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 1       | 99        | 16.81                 | 16.76                    | 16.79                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 50      | 0         | 16.84                 | 16.82                    | 16.73                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 50      | 24        | 16.92                 | 16.89                    | 16.77                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 50      | 50        | 16.83                 | 16.83                    | 16.74                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | 16QAM      | 100     | 0         | 16.87                 | 16.77                    | 16.68                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 1       | 0         | 16.91                 | 16.75                    | 16.92                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 1       | 49        | 17.17                 | 17.11                    | 16.92                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 1       | 99        | 16.76                 | 16.80                    | 16.96                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 50      | 0         | 16.80                 | 16.80                    | 16.71                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 50      | 24        | 16.92                 | 16.85                    | 16.76                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 50      | 50        | 16.84                 | 16.81                    | 16.71                  |                     |          |    |   |  |  |  |  |  |  |
| 20                 | 64QAM      | 100     | 0         | 16.84                 | 16.78                    | 16.70                  |                     |          |    |   |  |  |  |  |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 1       | 0         | 17.15                 | 17.25                    | 17.05                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 1       | 37        | 16.77                 | 16.81                    | 16.69                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 1       | 74        | 16.60                 | 16.62                    | 16.48                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 36      | 0         | 16.79                 | 16.81                    | 16.72                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 36      | 20        | 16.92                 | 16.86                    | 16.82                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 36      | 39        | 16.84                 | 16.83                    | 16.71                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | QPSK       | 75      | 0         | 16.86                 | 16.85                    | 16.67                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 1       | 0         | 17.01                 | 16.96                    | 16.92                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 1       | 37        | 17.14                 | 17.07                    | 17.01                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 1       | 74        | 16.92                 | 16.92                    | 16.79                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 36      | 0         | 16.80                 | 16.84                    | 16.74                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 36      | 20        | 16.93                 | 16.87                    | 16.86                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 36      | 39        | 16.83                 | 16.87                    | 16.75                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | 16QAM      | 75      | 0         | 16.87                 | 16.82                    | 16.71                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 1       | 0         | 16.92                 | 16.96                    | 17.07                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 1       | 37        | 17.02                 | 17.16                    | 17.09                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 1       | 74        | 16.90                 | 16.71                    | 16.83                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 36      | 0         | 16.81                 | 16.82                    | 16.73                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 36      | 20        | 16.93                 | 16.88                    | 16.81                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 36      | 39        | 16.80                 | 16.80                    | 16.75                  |                     |          |    |   |  |  |  |  |  |  |
| 15                 | 64QAM      | 75      | 0         | 16.87                 | 16.81                    | 16.71                  |                     |          |    |   |  |  |  |  |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 1       | 0         | 16.53                 | 16.51                    | 16.45                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 1       | 25        | 16.78                 | 16.79                    | 16.68                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 1       | 49        | 16.43                 | 16.46                    | 16.32                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 25      | 0         | 16.88                 | 16.82                    | 16.77                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 25      | 12        | 16.97                 | 16.90                    | 16.80                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 25      | 25        | 16.80                 | 16.83                    | 16.69                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | QPSK       | 50      | 0         | 16.87                 | 16.78                    | 16.75                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 1       | 0         | 16.95                 | 16.92                    | 16.80                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 1       | 25        | 16.80                 | 16.86                    | 17.10                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 1       | 49        | 16.92                 | 16.85                    | 16.72                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 25      | 0         | 16.90                 | 16.86                    | 16.79                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 25      | 12        | 16.99                 | 16.92                    | 16.86                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 25      | 25        | 16.83                 | 16.82                    | 16.73                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | 16QAM      | 50      | 0         | 16.88                 | 16.80                    | 16.77                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 1       | 0         | 16.99                 | 16.98                    | 16.94                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 1       | 25        | 16.85                 | 16.86                    | 16.82                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 1       | 49        | 16.90                 | 17.13                    | 16.98                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 25      | 0         | 16.94                 | 16.85                    | 16.80                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 25      | 12        | 17.01                 | 16.92                    | 16.87                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 25      | 25        | 16.83                 | 16.85                    | 16.66                  |                     |          |    |   |  |  |  |  |  |  |
| 10                 | 64QAM      | 50      | 0         | 16.84                 | 16.78                    | 16.74                  |                     |          |    |   |  |  |  |  |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 1       | 0         | 16.83                 | 16.76                    | 16.71                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 1       | 12        | 16.91                 | 16.89                    | 16.72                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 1       | 24        | 16.70                 | 16.72                    | 16.57                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 12      | 0         | 16.98                 | 16.92                    | 16.81                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 12      | 7         | 17.00                 | 16.93                    | 16.82                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 12      | 13        | 16.90                 | 16.91                    | 16.77                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | QPSK       | 25      | 0         | 16.92                 | 16.80                    | 16.77                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 1       | 0         | 17.18                 | 17.13                    | 17.03                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 1       | 12        | 17.17                 | 17.18                    | 17.00                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 1       | 24        | 17.07                 | 17.12                    | 16.90                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 12      | 0         | 17.02                 | 16.95                    | 16.84                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 12      | 7         | 16.98                 | 16.98                    | 16.87                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 12      | 13        | 16.94                 | 16.94                    | 16.78                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | 16QAM      | 25      | 0         | 16.97                 | 16.92                    | 16.78                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 1       | 0         | 17.15                 | 17.06                    | 16.99                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 1       | 12        | 17.16                 | 17.17                    | 16.94                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 1       | 24        | 16.97                 | 16.99                    | 16.85                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 12      | 0         | 16.99                 | 16.93                    | 16.84                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 12      | 7         | 17.00                 | 16.95                    | 16.84                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 12      | 13        | 16.91                 | 16.93                    | 16.76                  |                     |          |    |   |  |  |  |  |  |  |
| 5                  | 64QAM      | 25      | 0         | 16.96                 | 16.89                    | 16.80                  |                     |          |    |   |  |  |  |  |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 1       | 0         | 16.90                 | 16.81                    | 16.76                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 1       | 8         | 16.92                 | 16.93                    | 16.72                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 1       | 14        | 16.82                 | 16.83                    | 16.62                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 8       | 0         | 16.96                 | 16.94                    | 16.82                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 8       | 4         | 17.00                 | 16.98                    | 16.83                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 8       | 7         | 16.94                 | 16.95                    | 16.79                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | QPSK       | 15      | 0         | 16.95                 | 16.91                    | 16.80                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 0         | 17.18                 | 17.16                    | 17.06                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 8         | 16.85                 | 17.12                    | 17.12                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 14        | 17.17                 | 17.10                    | 16.97                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 8       | 0         | 17.05                 | 16.99                    | 16.87                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 8       | 4         | 17.07                 | 17.02                    | 16.89                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 8       | 7         | 16.98                 | 16.95                    | 16.83                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 15      | 0         | 16.98                 | 16.95                    | 16.84                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 16QAM      | 1       | 0         | 17.13                 | 17.12                    | 17.04                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 1       | 8         | 17.14                 | 17.17                    | 16.98                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 1       | 14        | 17.08                 | 17.10                    | 17.02                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 1       | 18        | 17.04                 | 17.10                    | 17.02                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 8       | 0         | 16.96                 | 16.96                    | 16.84                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 8       | 4         | 17.01                 | 17.04                    | 16.83                  |                     |          |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 8       | 7         | 16.97                 | 16.97                    | 16.78                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 3                  | 64QAM      | 3       | 0         | 16.96                 | 16.93                    | 16.80                  |                     |          |    |   |  |  |  |  |  |  |
| Channel            |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | QPSK       | 1       | 0         | 16.79                 | 17.29                    | 17.65                  |                     |          | 18 | 0 |  |  |  |  |  |  |
| 1.4                | QPSK       | 1       | 3         | 16.85                 | 16.85                    | 16.66                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | QPSK       | 1       | 5         | 16.78                 | 16.78                    | 16.64                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | QPSK       | 3       | 0         | 16.87                 | 16.81                    | 16.66                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 1.4                | QPSK       | 3       | 1         | 16.90                 | 16.90                    | 16.71                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | QPSK       | 6       | 0         | 16.90                 | 16.90                    | 16.70                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 1       | 0         | 17.13                 | 17.16                    | 16.99                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 1       | 3         | 17.21                 | 17.18                    | 16.99                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 1       | 5         | 17.07                 | 17.12                    | 16.97                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 3       | 0         | 16.93                 | 16.94                    | 16.75                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 3       | 1         | 17.02                 | 16.94                    | 16.77                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 3       | 3         | 16.90                 | 16.88                    | 16.72                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 16QAM      | 6       | 0         | 16.97                 | 17.16                    | 16.82                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 1       | 0         | 17.04                 | 17.11                    | 16.90                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 1       | 3         | 17.16                 | 17.08                    | 16.97                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 1       | 5         | 17.04                 | 17.05                    | 16.87                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 3       | 0         | 16.94                 | 16.99                    | 16.76                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 3       | 1         | 16.97                 | 17.00                    | 16.80                  |                     |          |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 3       | 3         | 16.93                 | 16.93                    | 16.74                  | 18                  | 0        |    |   |  |  |  |  |  |  |
| 1.4                | 64QAM      | 6       | 0         | 16.93                 | 16.88                    | 16.74                  |                     |          |    |   |  |  |  |  |  |  |

| Band 5 -Body Worm & Hotspot |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                    | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                     |            |         |           | 20450                 | 20535                    | 21000                  |                     |          |  |
| Frequency (MHz)             |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 10                          | QPSK       | 1       | 0         | 21.28                 | 21.38                    | 21.33                  | 23                  | 0        |  |
| 10                          | QPSK       | 1       | 25        | 21.24                 | 21.19                    | 21.20                  |                     |          |  |
| 10                          | QPSK       | 1       | 49        | 21.25                 | 21.23                    | 21.18                  |                     |          |  |
| 10                          | QPSK       | 25      | 0         | 21.20                 | 21.29                    | 21.27                  | 23                  | 0        |  |
| 10                          | QPSK       | 25      | 12        | 21.08                 | 21.16                    | 21.21                  |                     |          |  |
| 10                          | QPSK       | 25      | 25        | 21.17                 | 21.25                    | 21.20                  |                     |          |  |
| 10                          | QPSK       | 50      | 0         | 21.19                 | 21.22                    | 21.18                  | 23                  | 0        |  |
| 10                          | 16QAM      | 1       | 0         | 21.12                 | 21.18                    | 21.09                  |                     |          |  |
| 10                          | 16QAM      | 1       | 25        | 21.18                 | 21.21                    | 21.21                  |                     |          |  |
| 10                          | 16QAM      | 1       | 49        | 21.04                 | 21.10                    | 21.18                  | 22                  | 1        |  |
| 10                          | 16QAM      | 25      | 0         | 20.89                 | 20.90                    | 20.94                  |                     |          |  |
| 10                          | 16QAM      | 25      | 12        | 21.04                 | 20.98                    | 20.90                  |                     |          |  |
| 10                          | 16QAM      | 25      | 25        | 20.98                 | 20.96                    | 20.90                  | 22                  | 1        |  |
| 10                          | 16QAM      | 50      | 0         | 20.96                 | 20.90                    | 20.81                  |                     |          |  |
| 10                          | 64QAM      | 1       | 0         | 20.90                 | 21.04                    | 20.90                  |                     |          |  |
| 10                          | 64QAM      | 1       | 25        | 20.90                 | 20.15                    | 21.19                  | 22                  | 1        |  |
| 10                          | 64QAM      | 1       | 49        | 20.86                 | 21.21                    | 21.19                  |                     |          |  |
| 10                          | 64QAM      | 25      | 0         | 20.18                 | 20.10                    | 20.10                  |                     |          |  |
| 10                          | 64QAM      | 25      | 12        | 20.27                 | 20.20                    | 20.11                  | 21                  | 2        |  |
| 10                          | 64QAM      | 25      | 25        | 20.22                 | 20.15                    | 20.12                  |                     |          |  |
| 10                          | 64QAM      | 50      | 0         | 20.18                 | 20.09                    | 19.98                  |                     |          |  |
| Channel                     |            |         |           | 20425                 | 20525                    | 20625                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 829.5                 | 836.5                    | 843.5                  |                     |          |  |
| 5                           | QPSK       | 1       | 0         | 21.44                 | 21.28                    | 21.28                  | 23                  | 0        |  |
| 5                           | QPSK       | 1       | 12        | 21.45                 | 21.35                    | 21.39                  |                     |          |  |
| 5                           | QPSK       | 1       | 24        | 21.39                 | 21.28                    | 21.25                  |                     |          |  |
| 5                           | QPSK       | 12      | 0         | 21.02                 | 21.19                    | 21.09                  | 23                  | 0        |  |
| 5                           | QPSK       | 12      | 7         | 21.05                 | 21.18                    | 21.13                  |                     |          |  |
| 5                           | QPSK       | 12      | 13        | 21.12                 | 21.13                    | 21.11                  |                     |          |  |
| 5                           | QPSK       | 25      | 0         | 21.04                 | 21.14                    | 21.18                  | 23                  | 0        |  |
| 5                           | 16QAM      | 1       | 0         | 21.25                 | 21.13                    | 21.08                  |                     |          |  |
| 5                           | 16QAM      | 1       | 12        | 21.27                 | 21.21                    | 21.16                  |                     |          |  |
| 5                           | 16QAM      | 1       | 24        | 21.25                 | 21.16                    | 21.07                  | 22                  | 1        |  |
| 5                           | 16QAM      | 12      | 0         | 21.06                 | 20.93                    | 20.90                  |                     |          |  |
| 5                           | 16QAM      | 12      | 7         | 21.08                 | 21.01                    | 20.89                  |                     |          |  |
| 5                           | 16QAM      | 12      | 13        | 21.03                 | 20.99                    | 20.89                  | 22                  | 1        |  |
| 5                           | 16QAM      | 25      | 0         | 21.08                 | 20.95                    | 20.87                  |                     |          |  |
| 5                           | 64QAM      | 1       | 0         | 21.15                 | 21.01                    | 21.01                  |                     |          |  |
| 5                           | 64QAM      | 1       | 12        | 21.22                 | 21.10                    | 21.14                  | 22                  | 1        |  |
| 5                           | 64QAM      | 1       | 24        | 21.14                 | 21.09                    | 21.00                  |                     |          |  |
| 5                           | 64QAM      | 12      | 0         | 20.21                 | 20.10                    | 20.06                  |                     |          |  |
| 5                           | 64QAM      | 12      | 7         | 20.29                 | 20.19                    | 20.07                  | 21                  | 2        |  |
| 5                           | 64QAM      | 12      | 13        | 20.23                 | 20.16                    | 20.08                  |                     |          |  |
| 5                           | 64QAM      | 25      | 0         | 20.23                 | 20.15                    | 20.08                  |                     |          |  |
| Channel                     |            |         |           | 20415                 | 20525                    | 20635                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 825.5                 | 836.5                    | 847.5                  |                     |          |  |
| 3                           | QPSK       | 1       | 0         | 21.48                 | 21.27                    | 21.34                  | 23                  | 0        |  |
| 3                           | QPSK       | 1       | 8         | 21.49                 | 21.42                    | 21.43                  |                     |          |  |
| 3                           | QPSK       | 1       | 14        | 21.44                 | 21.31                    | 21.29                  |                     |          |  |
| 3                           | QPSK       | 8       | 0         | 21.56                 | 21.36                    | 21.44                  | 23                  | 0        |  |
| 3                           | QPSK       | 8       | 4         | 21.56                 | 21.48                    | 21.46                  |                     |          |  |
| 3                           | QPSK       | 8       | 7         | 21.53                 | 21.45                    | 21.41                  |                     |          |  |
| 3                           | QPSK       | 15      | 0         | 21.52                 | 21.43                    | 21.42                  | 23                  | 0        |  |
| 3                           | 16QAM      | 1       | 0         | 21.31                 | 21.13                    | 21.10                  |                     |          |  |
| 3                           | 16QAM      | 1       | 8         | 21.23                 | 21.23                    | 21.24                  |                     |          |  |
| 3                           | 16QAM      | 1       | 14        | 21.23                 | 21.17                    | 21.08                  | 22                  | 1        |  |
| 3                           | 16QAM      | 8       | 0         | 21.11                 | 20.97                    | 21.00                  |                     |          |  |
| 3                           | 16QAM      | 8       | 4         | 21.13                 | 21.04                    | 21.02                  |                     |          |  |
| 3                           | 16QAM      | 8       | 7         | 21.06                 | 21.02                    | 20.96                  | 22                  | 1        |  |
| 3                           | 16QAM      | 15      | 0         | 21.08                 | 20.97                    | 20.95                  |                     |          |  |
| 3                           | 64QAM      | 1       | 0         | 21.22                 | 21.02                    | 21.07                  |                     |          |  |
| 3                           | 64QAM      | 1       | 8         | 21.25                 | 21.20                    | 21.14                  | 22                  | 1        |  |
| 3                           | 64QAM      | 1       | 14        | 21.17                 | 21.11                    | 21.05                  |                     |          |  |
| 3                           | 64QAM      | 8       | 0         | 20.28                 | 20.10                    | 20.14                  |                     |          |  |
| 3                           | 64QAM      | 8       | 4         | 20.28                 | 20.21                    | 20.18                  | 21                  | 2        |  |
| 3                           | 64QAM      | 8       | 7         | 20.24                 | 20.19                    | 20.11                  |                     |          |  |
| 3                           | 64QAM      | 15      | 0         | 20.25                 | 20.17                    | 20.11                  |                     |          |  |
| Channel                     |            |         |           | 20407                 | 20525                    | 20643                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)             |            |         |           | 824.7                 | 836.5                    | 848.3                  |                     |          |  |
| 1.4                         | QPSK       | 1       | 0         | 21.39                 | 21.25                    | 21.28                  | 23                  | 0        |  |
| 1.4                         | QPSK       | 1       | 3         | 21.42                 | 21.30                    | 21.32                  |                     |          |  |
| 1.4                         | QPSK       | 1       | 5         | 21.36                 | 21.28                    | 21.22                  |                     |          |  |
| 1.4                         | QPSK       | 3       | 0         | 21.39                 | 21.31                    | 21.25                  | 23                  | 0        |  |
| 1.4                         | QPSK       | 3       | 1         | 21.40                 | 21.33                    | 21.31                  |                     |          |  |
| 1.4                         | QPSK       | 3       | 3         | 21.42                 | 21.29                    | 21.29                  |                     |          |  |
| 1.4                         | QPSK       | 6       | 0         | 21.48                 | 21.38                    | 21.35                  | 23                  | 0        |  |
| 1.4                         | 16QAM      | 1       | 0         | 21.21                 | 21.11                    | 21.07                  |                     |          |  |
| 1.4                         | 16QAM      | 1       | 3         | 21.29                 | 21.20                    | 21.15                  |                     |          |  |
| 1.4                         | 16QAM      | 1       | 5         | 21.25                 | 21.09                    | 21.00                  | 23                  | 0        |  |
| 1.4                         | 16QAM      | 3       | 0         | 21.01                 | 21.11                    | 21.17                  |                     |          |  |
| 1.4                         | 16QAM      | 3       | 1         | 21.06                 | 21.12                    | 21.13                  |                     |          |  |
| 1.4                         | 16QAM      | 3       | 3         | 21.02                 | 21.12                    | 21.16                  | 22                  | 1        |  |
| 1.4                         | 16QAM      | 6       | 0         | 21.06                 | 20.96                    | 20.90                  |                     |          |  |
| 1.4                         | 64QAM      | 1       | 0         | 21.14                 | 21.00                    | 21.00                  |                     |          |  |
| 1.4                         | 64QAM      | 1       | 3         | 21.18                 | 21.08                    | 21.01                  | 22                  | 1        |  |
| 1.4                         | 64QAM      | 1       | 5         | 21.15                 | 21.01                    | 20.98                  |                     |          |  |
| 1.4                         | 64QAM      | 3       | 0         | 21.03                 | 20.95                    | 20.87                  |                     |          |  |
| 1.4                         | 64QAM      | 3       | 1         | 21.08                 | 20.99                    | 20.93                  | 21                  | 2        |  |
| 1.4                         | 64QAM      | 3       | 3         | 21.02                 | 20.94                    | 20.87                  |                     |          |  |
| 1.4                         | 64QAM      | 6       | 0         | 20.21                 | 20.10                    | 20.01                  |                     |          |  |

| Band 7 -Body Worm |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2510                  | 2535                     | 2550                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 15.88                 | 16.01                    | 15.98                  | 16.5                | 0        |  |
| 20                | QPSK       | 1       | 49        | 15.72                 | 15.72                    | 15.83                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 15.82                 | 15.83                    | 15.91                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 15.66                 | 15.89                    | 15.87                  | 16.5                | 0        |  |
| 20                | QPSK       | 50      | 24        | 15.85                 | 15.87                    | 15.66                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 15.84                 | 15.86                    | 15.87                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 15.80                 | 15.85                    | 15.84                  | 16.5                | 0        |  |
| 20                | 16QAM      | 1       | 0         | 15.70                 | 15.64                    | 15.73                  |                     |          |  |
| 20                | 16QAM      | 1       | 49        | 15.70                 | 15.71                    | 15.84                  |                     |          |  |
| 20                | 16QAM      | 1       | 99        | 15.82                 | 15.80                    | 15.86                  | 16.5                | 0        |  |
| 20                | 16QAM      | 50      | 0         | 15.32                 | 15.42                    | 15.48                  |                     |          |  |
| 20                | 16QAM      | 50      | 24        | 15.50                 | 15.51                    | 15.55                  |                     |          |  |
| 20                | 16QAM      | 50      | 50        | 15.50                 | 15.53                    | 15.55                  | 16.5                | 0        |  |
| 20                | 16QAM      | 100     | 0         | 15.42                 | 15.43                    | 15.45                  |                     |          |  |
| 20                | 64QAM      | 1       | 0         | 15.52                 | 15.49                    | 15.62                  |                     |          |  |
| 20                | 64QAM      | 1       | 49        | 15.60                 | 15.60                    | 15.67                  | 16.5                | 0        |  |
| 20                | 64QAM      | 1       | 99        | 15.64                 | 15.69                    | 15.75                  |                     |          |  |
| 20                | 64QAM      | 50      | 0         | 15.31                 | 15.42                    | 15.49                  |                     |          |  |
| 20                | 64QAM      | 50      | 24        | 15.48                 | 15.49                    | 15.53                  | 16.5                | 0        |  |
| 20                | 64QAM      | 50      | 50        | 15.47                 | 15.50                    | 15.56                  |                     |          |  |
| 20                | 64QAM      | 100     | 0         | 15.44                 | 15.44                    | 15.50                  |                     |          |  |
| Channel           |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2507.5                | 2535                     | 2552.5                 |                     |          |  |
| 15                | QPSK       | 1       | 0         | 15.34                 | 15.40                    | 15.48                  | 16.5                | 0        |  |
| 15                | QPSK       | 1       | 37        | 15.37                 | 15.44                    | 15.49                  |                     |          |  |
| 15                | QPSK       | 1       | 74        | 15.48                 | 15.52                    | 15.62                  |                     |          |  |
| 15                | QPSK       | 36      | 0         | 15.45                 | 15.46                    | 15.55                  | 16.5                | 0        |  |
| 15                | QPSK       | 36      | 20        | 15.55                 | 15.53                    | 15.61                  |                     |          |  |
| 15                | QPSK       | 36      | 39        | 15.54                 | 15.56                    | 15.65                  |                     |          |  |
| 15                | QPSK       | 75      | 0         | 15.46                 | 15.47                    | 15.56                  | 16.5                | 0        |  |
| 15                | 16QAM      | 1       | 0         | 15.67                 | 15.70                    | 15.80                  |                     |          |  |
| 15                | 16QAM      | 1       | 37        | 15.72                 | 15.75                    | 15.84                  | 16.5                | 0        |  |
| 15                | 16QAM      | 1       | 74        | 15.78                 | 15.79                    | 15.90                  |                     |          |  |
| 15                | 16QAM      | 36      | 0         | 15.44                 | 15.44                    | 15.53                  | 16.5                | 0        |  |
| 15                | 16QAM      | 36      | 20        | 15.55                 | 15.53                    | 15.60                  |                     |          |  |
| 15                | 16QAM      | 36      | 39        | 15.52                 | 15.54                    | 15.63                  |                     |          |  |
| 15                | 16QAM      | 75      | 0         | 15.47                 | 15.46                    | 15.54                  | 16.5                | 0        |  |
| 15                | 64QAM      | 1       | 0         | 15.56                 | 15.56                    | 15.66                  |                     |          |  |
| 15                | 64QAM      | 1       | 37        | 15.60                 | 15.64                    | 15.65                  | 16.5                | 0        |  |
| 15                | 64QAM      | 1       | 74        | 15.63                 | 15.67                    | 15.75                  |                     |          |  |
| 15                | 64QAM      | 36      | 0         | 15.44                 | 15.45                    | 15.55                  | 16.5                | 0        |  |
| 15                | 64QAM      | 36      | 20        | 15.53                 | 15.55                    | 15.59                  |                     |          |  |
| 15                | 64QAM      | 36      | 39        | 15.53                 | 15.53                    | 15.64                  |                     |          |  |
| 15                | 64QAM      | 75      | 0         | 15.46                 | 15.46                    | 15.55                  | 16.5                | 0        |  |
| 15                | 64QAM      | 75      | 0         | 15.46                 | 15.46                    | 15.55                  |                     |          |  |
| Channel           |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10                | QPSK       | 1       | 0         | 15.39                 | 15.41                    | 15.45                  | 16.5                | 0        |  |
| 10                | QPSK       | 1       | 25        | 15.37                 | 15.44                    | 15.51                  |                     |          |  |
| 10                | QPSK       | 1       | 49        | 15.41                 | 15.51                    | 15.56                  |                     |          |  |
| 10                | QPSK       | 25      | 0         | 15.45                 | 15.49                    | 15.50                  | 16.5                | 0        |  |
| 10                | QPSK       | 25      | 12        | 15.53                 | 15.53                    | 15.66                  |                     |          |  |
| 10                | QPSK       | 25      | 25        | 15.55                 | 15.64                    | 15.64                  |                     |          |  |
| 10                | QPSK       | 50      | 0         | 15.46                 | 15.47                    | 15.49                  | 16.5                | 0        |  |
| 10                | 16QAM      | 1       | 0         | 15.79                 | 15.82                    | 15.87                  |                     |          |  |
| 10                | 16QAM      | 1       | 25        | 15.80                 | 15.87                    | 15.87                  |                     |          |  |
| 10                | 16QAM      | 1       | 49        | 15.86                 | 15.89                    | 15.70                  | 16.5                | 0        |  |
| 10                | 16QAM      | 25      | 0         | 15.56                 | 15.54                    | 15.62                  |                     |          |  |
| 10                | 16QAM      | 25      | 12        | 15.55                 | 15.57                    | 15.69                  |                     |          |  |
| 10                | 16QAM      | 25      | 25        | 15.58                 | 15.65                    | 15.66                  | 16.5                | 0        |  |
| 10                | 16QAM      | 50      | 0         | 15.47                 | 15.48                    | 15.50                  |                     |          |  |
| 10                | 64QAM      | 1       | 0         | 15.76                 | 15.78                    | 15.82                  |                     |          |  |
| 10                | 64QAM      | 1       | 25        | 15.79                 | 15.76                    | 15.87                  | 16.5                | 0        |  |
| 10                | 64QAM      | 1       | 49        | 15.81                 | 15.58                    | 15.66                  |                     |          |  |
| 10                | 64QAM      | 25      | 0         | 15.56                 | 15.54                    | 15.61                  |                     |          |  |
| 10                | 64QAM      | 25      | 12        | 15.54                 | 15.58                    | 15.68                  | 16.5                | 0        |  |
| 10                | 64QAM      | 25      | 25        | 15.58                 | 15.64                    | 15.67                  |                     |          |  |
| 10                | 64QAM      | 50      | 0         | 15.48                 | 15.49                    | 15.49                  |                     |          |  |
| Channel           |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5                 | QPSK       | 1       | 0         | 15.43                 | 15.43                    | 15.54                  | 16.5                | 0        |  |
| 5                 | QPSK       | 1       | 12        | 15.45                 | 15.50                    | 15.58                  |                     |          |  |
| 5                 | QPSK       | 1       | 24        | 15.44                 | 15.54                    | 15.56                  |                     |          |  |
| 5                 | QPSK       | 12      | 0         | 15.49                 | 15.53                    | 15.58                  | 16.5                | 0        |  |
| 5                 | QPSK       | 12      | 7         | 15.57                 | 15.64                    | 15.68                  |                     |          |  |
| 5                 | QPSK       | 12      | 13        | 15.51                 | 15.61                    | 15.64                  |                     |          |  |
| 5                 | QPSK       | 25      | 0         | 15.50                 | 15.51                    | 15.50                  | 16.5                | 0        |  |
| 5                 | 16QAM      | 1       | 0         | 15.78                 | 15.78                    | 15.63                  |                     |          |  |
| 5                 | 16QAM      | 1       | 12        | 15.81                 | 15.87                    | 15.73                  |                     |          |  |
| 5                 | 16QAM      | 1       | 24        | 15.84                 | 15.87                    | 15.79                  | 16.5                | 0        |  |
| 5                 | 16QAM      | 12      | 0         | 15.54                 | 15.56                    | 15.68                  |                     |          |  |
| 5                 | 16QAM      | 12      | 7         | 15.61                 | 15.69                    | 15.70                  |                     |          |  |
| 5                 | 16QAM      | 12      | 13        | 15.53                 | 15.64                    | 15.65                  | 16.5                | 0        |  |
| 5                 | 16QAM      | 25      | 0         | 15.52                 | 15.51                    | 15.62                  |                     |          |  |
| 5                 | 64QAM      | 1       | 0         | 15.68                 | 15.69                    | 15.83                  |                     |          |  |
| 5                 | 64QAM      | 1       | 12        | 15.73                 | 15.77                    | 15.83                  | 16.5                | 0        |  |
| 5                 | 64QAM      | 1       | 24        | 15.75                 | 15.79                    | 15.83                  |                     |          |  |
| 5                 | 64QAM      | 12      | 0         | 15.46                 | 15.50                    | 15.50                  |                     |          |  |
| 5                 | 64QAM      | 12      | 7         | 15.59                 | 15.66                    | 15.69                  | 16.5                | 0        |  |
| 5                 | 64QAM      | 12      | 13        | 15.50                 | 15.63                    | 15.63                  |                     |          |  |
| 5                 | 64QAM      | 25      | 0         | 15.51                 | 15.53                    | 15.61                  |                     |          |  |

| Band 7 -Handheld |            |         |           |                      |                         |                       |                     |          |  |
|------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Middle Ch./ Freq. | Power High Ch./ Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel          |            |         |           | 20500                | 21100                   | 21350                 | 18.5                | 0        |  |
| Frequency (MHz)  |            |         |           | 2310                 | 2535                    | 2580                  |                     |          |  |
| 20               | QPSK       | 1       | 0         | 17.89                | 17.92                   | 17.83                 | 18.5                | 0        |  |
| 20               | QPSK       | 1       | 49        | 17.72                | 17.76                   | 17.83                 |                     |          |  |
| 20               | QPSK       | 1       | 99        | 17.81                | 17.86                   | 17.72                 |                     |          |  |
| 20               | QPSK       | 50      | 0         | 17.79                | 17.91                   | 17.86                 |                     |          |  |
| 20               | QPSK       | 50      | 24        | 17.86                | 17.87                   | 17.55                 | 18.5                | 0        |  |
| 20               | QPSK       | 50      | 50        | 17.86                | 17.87                   | 17.68                 |                     |          |  |
| 20               | QPSK       | 100     | 0         | 17.82                | 17.84                   | 17.62                 |                     |          |  |
| 20               | 16QAM      | 1       | 0         | 17.65                | 17.66                   | 17.74                 |                     |          |  |
| 20               | 16QAM      | 1       | 49        | 17.74                | 17.73                   | 17.83                 | 18.5                | 0        |  |
| 20               | 16QAM      | 1       | 99        | 17.77                | 17.83                   | 17.87                 |                     |          |  |
| 20               | 16QAM      | 50      | 0         | 17.30                | 17.43                   | 17.51                 |                     |          |  |
| 20               | 16QAM      | 50      | 24        | 17.51                | 17.51                   | 17.57                 |                     |          |  |
| 20               | 16QAM      | 50      | 50        | 17.53                | 17.56                   | 17.54                 | 18.5                | 0        |  |
| 20               | 16QAM      | 100     | 0         | 17.45                | 17.44                   | 17.48                 |                     |          |  |
| 20               | 64QAM      | 1       | 0         | 17.51                | 17.59                   | 17.69                 |                     |          |  |
| 20               | 64QAM      | 1       | 49        | 17.64                | 17.64                   | 17.74                 |                     |          |  |
| 20               | 64QAM      | 1       | 99        | 17.65                | 17.66                   | 17.71                 | 18.5                | 0        |  |
| 20               | 64QAM      | 50      | 0         | 17.29                | 17.40                   | 17.49                 |                     |          |  |
| 20               | 64QAM      | 50      | 24        | 17.50                | 17.48                   | 17.52                 |                     |          |  |
| 20               | 64QAM      | 50      | 50        | 17.50                | 17.71                   | 17.54                 |                     |          |  |
| 20               | 64QAM      | 100     | 0         | 17.43                | 17.44                   | 17.47                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20625                | 21100                   | 21375                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20715                | 20535                   | 20625                 | 18.5                | 0        |  |
| 15               | QPSK       | 1       | 0         | 17.34                | 17.38                   | 17.48                 |                     |          |  |
| 15               | QPSK       | 1       | 37        | 17.37                | 17.41                   | 17.48                 |                     |          |  |
| 15               | QPSK       | 1       | 74        | 17.46                | 17.51                   | 17.57                 |                     |          |  |
| 15               | QPSK       | 36      | 0         | 17.44                | 17.45                   | 17.51                 |                     |          |  |
| 15               | QPSK       | 36      | 20        | 17.51                | 17.52                   | 17.59                 | 18.5                | 0        |  |
| 15               | QPSK       | 36      | 39        | 17.51                | 17.56                   | 17.62                 |                     |          |  |
| 15               | QPSK       | 75      | 0         | 17.47                | 17.45                   | 17.54                 |                     |          |  |
| 15               | 16QAM      | 1       | 0         | 17.67                | 17.70                   | 17.80                 |                     |          |  |
| 15               | 16QAM      | 1       | 37        | 17.71                | 17.79                   | 17.86                 | 18.5                | 0        |  |
| 15               | 16QAM      | 1       | 74        | 17.76                | 17.71                   | 17.71                 |                     |          |  |
| 15               | 16QAM      | 36      | 0         | 17.44                | 17.47                   | 17.53                 |                     |          |  |
| 15               | 16QAM      | 36      | 20        | 17.53                | 17.53                   | 17.58                 |                     |          |  |
| 15               | 16QAM      | 36      | 39        | 17.51                | 17.51                   | 17.62                 | 18.5                | 0        |  |
| 15               | 16QAM      | 75      | 0         | 17.48                | 17.47                   | 17.53                 |                     |          |  |
| 15               | 64QAM      | 1       | 0         | 17.48                | 17.56                   | 17.65                 |                     |          |  |
| 15               | 64QAM      | 1       | 37        | 17.60                | 17.60                   | 17.68                 |                     |          |  |
| 15               | 64QAM      | 1       | 74        | 17.73                | 17.67                   | 17.79                 | 18.5                | 0        |  |
| 15               | 64QAM      | 36      | 0         | 17.42                | 17.47                   | 17.52                 |                     |          |  |
| 15               | 64QAM      | 36      | 20        | 17.55                | 17.51                   | 17.58                 |                     |          |  |
| 15               | 64QAM      | 36      | 39        | 17.52                | 17.52                   | 17.63                 |                     |          |  |
| 15               | 64QAM      | 75      | 0         | 17.48                | 17.47                   | 17.53                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20800                | 21100                   | 21400                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20925                | 20535                   | 20655                 | 18.5                | 0        |  |
| 10               | QPSK       | 1       | 0         | 17.39                | 17.41                   | 17.41                 |                     |          |  |
| 10               | QPSK       | 1       | 25        | 17.37                | 17.41                   | 17.48                 |                     |          |  |
| 10               | QPSK       | 1       | 49        | 17.46                | 17.53                   | 17.54                 |                     |          |  |
| 10               | QPSK       | 25      | 0         | 17.46                | 17.48                   | 17.48                 |                     |          |  |
| 10               | QPSK       | 25      | 12        | 17.49                | 17.52                   | 17.62                 | 18.5                | 0        |  |
| 10               | QPSK       | 25      | 25        | 17.47                | 17.57                   | 17.61                 |                     |          |  |
| 10               | QPSK       | 50      | 0         | 17.42                | 17.38                   | 17.48                 |                     |          |  |
| 10               | 16QAM      | 1       | 0         | 17.74                | 17.76                   | 17.83                 |                     |          |  |
| 10               | 16QAM      | 1       | 25        | 17.73                | 17.82                   | 17.89                 | 18.5                | 0        |  |
| 10               | 16QAM      | 1       | 49        | 17.63                | 17.86                   | 17.90                 |                     |          |  |
| 10               | 16QAM      | 25      | 0         | 17.50                | 17.47                   | 17.50                 |                     |          |  |
| 10               | 16QAM      | 25      | 12        | 17.49                | 17.50                   | 17.66                 |                     |          |  |
| 10               | 16QAM      | 25      | 25        | 17.48                | 17.59                   | 17.61                 | 18.5                | 0        |  |
| 10               | 16QAM      | 50      | 0         | 17.42                | 17.42                   | 17.49                 |                     |          |  |
| 10               | 64QAM      | 1       | 0         | 17.68                | 17.78                   | 17.84                 |                     |          |  |
| 10               | 64QAM      | 1       | 25        | 17.67                | 17.85                   | 17.84                 |                     |          |  |
| 10               | 64QAM      | 1       | 49        | 17.79                | 17.89                   | 17.65                 | 18.5                | 0        |  |
| 10               | 64QAM      | 25      | 0         | 17.49                | 17.51                   | 17.52                 |                     |          |  |
| 10               | 64QAM      | 25      | 12        | 17.51                | 17.54                   | 17.65                 |                     |          |  |
| 10               | 64QAM      | 25      | 25        | 17.50                | 17.57                   | 17.65                 |                     |          |  |
| 10               | 64QAM      | 50      | 0         | 17.42                | 17.45                   | 17.48                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20775                | 21100                   | 21425                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20925                | 20535                   | 20675                 | 18.5                | 0        |  |
| 5                | QPSK       | 1       | 0         | 17.38                | 17.43                   | 17.50                 |                     |          |  |
| 5                | QPSK       | 1       | 12        | 17.45                | 17.53                   | 17.55                 |                     |          |  |
| 5                | QPSK       | 1       | 24        | 17.45                | 17.49                   | 17.57                 |                     |          |  |
| 5                | QPSK       | 12      | 0         | 17.47                | 17.49                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 12      | 7         | 17.71                | 17.59                   | 17.66                 | 18.5                | 0        |  |
| 5                | QPSK       | 12      | 13        | 17.47                | 17.53                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.47                | 17.52                   | 17.63                 |                     |          |  |
| 5                | 16QAM      | 1       | 0         | 17.77                | 17.75                   | 17.87                 |                     |          |  |
| 5                | 16QAM      | 1       | 12        | 17.77                | 17.85                   | 17.71                 | 18.5                | 0        |  |
| 5                | 16QAM      | 1       | 24        | 17.75                | 17.84                   | 17.71                 |                     |          |  |
| 5                | 16QAM      | 12      | 0         | 17.50                | 17.49                   | 17.65                 |                     |          |  |
| 5                | 16QAM      | 12      | 7         | 17.55                | 17.66                   | 17.71                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.52                | 17.60                   | 17.61                 | 18.5                | 0        |  |
| 5                | 16QAM      | 25      | 0         | 17.51                | 17.50                   | 17.66                 |                     |          |  |
| 5                | 64QAM      | 1       | 0         | 17.66                | 17.70                   | 17.77                 |                     |          |  |
| 5                | 64QAM      | 1       | 12        | 17.67                | 17.71                   | 17.76                 |                     |          |  |
| 5                | 64QAM      | 1       | 24        | 17.68                | 17.75                   | 17.80                 | 18.5                | 0        |  |
| 5                | 64QAM      | 12      | 0         | 17.46                | 17.48                   | 17.62                 |                     |          |  |
| 5                | 64QAM      | 12      | 7         | 17.51                | 17.63                   | 17.68                 |                     |          |  |
| 5                | 64QAM      | 12      | 13        | 17.45                | 17.57                   | 17.60                 |                     |          |  |
| 5                | 64QAM      | 25      | 0         | 17.51                | 17.49                   | 17.62                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20775                | 21100                   | 21425                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20925                | 20535                   | 20675                 | 18.5                | 0        |  |
| 1.4              | QPSK       | 1       | 0         | 21.38                | 21.43                   | 21.50                 |                     |          |  |
| 1.4              | QPSK       | 1       | 12        | 21.45                | 21.53                   | 21.55                 |                     |          |  |
| 1.4              | QPSK       | 1       | 24        | 21.45                | 21.49                   | 21.57                 |                     |          |  |
| 1.4              | QPSK       | 12      | 0         | 21.47                | 21.49                   | 21.60                 |                     |          |  |
| 1.4              | QPSK       | 12      | 7         | 21.71                | 21.59                   | 21.66                 | 18.5                | 0        |  |
| 1.4              | QPSK       | 12      | 13        | 21.47                | 21.53                   | 21.60                 |                     |          |  |
| 1.4              | QPSK       | 25      | 0         | 21.47                | 21.52                   | 21.63                 |                     |          |  |
| 1.4              | 16QAM      | 1       | 0         | 21.77                | 21.75                   | 21.87                 |                     |          |  |
| 1.4              | 16QAM      | 1       | 12        | 21.77                | 21.85                   | 21.71                 | 18.5                | 0        |  |
| 1.4              | 16QAM      | 1       | 24        | 21.75                | 21.84                   | 21.71                 |                     |          |  |
| 1.4              | 16QAM      | 12      | 0         | 21.50                | 21.49                   | 21.65                 |                     |          |  |
| 1.4              | 16QAM      | 12      | 7         | 21.55                | 21.66                   | 21.71                 |                     |          |  |
| 1.4              | QPSK       | 25      | 0         | 21.52                | 21.60                   | 21.61                 | 18.5                | 0        |  |
| 1.4              | 16QAM      | 25      | 0         | 21.51                | 21.50                   | 21.66                 |                     |          |  |
| 1.4              | 64QAM      | 1       | 0         | 21.66                | 21.70                   | 21.77                 |                     |          |  |
| 1.4              | 64QAM      | 1       | 12        | 21.67                | 21.71                   | 21.76                 |                     |          |  |
| 1.4              | 64QAM      | 1       | 24        | 21.68                | 21.75                   | 21.80                 | 18.5                | 0        |  |
| 1.4              | 64QAM      | 12      | 0         | 21.46                | 21.48                   | 21.62                 |                     |          |  |
| 1.4              | 64QAM      | 12      | 7         | 21.51                | 21.63                   | 21.68                 |                     |          |  |
| 1.4              | 64QAM      | 12      | 13        | 21.45                | 21.57                   | 21.60                 |                     |          |  |
| 1.4              | 64QAM      | 25      | 0         | 21.51                | 21.49                   | 21.62                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20775                | 21100                   | 21425                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20925                | 20535                   | 20675                 | 18.5                | 0        |  |
| 5                | QPSK       | 1       | 0         | 17.38                | 17.43                   | 17.50                 |                     |          |  |
| 5                | QPSK       | 1       | 12        | 17.45                | 17.53                   | 17.55                 |                     |          |  |
| 5                | QPSK       | 1       | 24        | 17.45                | 17.49                   | 17.57                 |                     |          |  |
| 5                | QPSK       | 12      | 0         | 17.47                | 17.49                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 12      | 7         | 17.71                | 17.59                   | 17.66                 | 18.5                | 0        |  |
| 5                | QPSK       | 12      | 13        | 17.47                | 17.53                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.47                | 17.52                   | 17.63                 |                     |          |  |
| 5                | 16QAM      | 1       | 0         | 17.77                | 17.75                   | 17.87                 |                     |          |  |
| 5                | 16QAM      | 1       | 12        | 17.77                | 17.85                   | 17.71                 | 18.5                | 0        |  |
| 5                | 16QAM      | 1       | 24        | 17.75                | 17.84                   | 17.71                 |                     |          |  |
| 5                | 16QAM      | 12      | 0         | 17.50                | 17.49                   | 17.65                 |                     |          |  |
| 5                | 16QAM      | 12      | 7         | 17.55                | 17.66                   | 17.71                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.52                | 17.60                   | 17.61                 | 18.5                | 0        |  |
| 5                | 16QAM      | 25      | 0         | 17.51                | 17.50                   | 17.66                 |                     |          |  |
| 5                | 64QAM      | 1       | 0         | 17.66                | 17.70                   | 17.77                 |                     |          |  |
| 5                | 64QAM      | 1       | 12        | 17.67                | 17.71                   | 17.76                 |                     |          |  |
| 5                | 64QAM      | 1       | 24        | 17.68                | 17.75                   | 17.80                 | 18.5                | 0        |  |
| 5                | 64QAM      | 12      | 0         | 17.46                | 17.48                   | 17.62                 |                     |          |  |
| 5                | 64QAM      | 12      | 7         | 17.51                | 17.63                   | 17.68                 |                     |          |  |
| 5                | 64QAM      | 12      | 13        | 17.45                | 17.57                   | 17.60                 |                     |          |  |
| 5                | 64QAM      | 25      | 0         | 17.51                | 17.49                   | 17.62                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20775                | 21100                   | 21425                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20925                | 20535                   | 20675                 | 18.5                | 0        |  |
| 5                | QPSK       | 1       | 0         | 17.38                | 17.43                   | 17.50                 |                     |          |  |
| 5                | QPSK       | 1       | 12        | 17.45                | 17.53                   | 17.55                 |                     |          |  |
| 5                | QPSK       | 1       | 24        | 17.45                | 17.49                   | 17.57                 |                     |          |  |
| 5                | QPSK       | 12      | 0         | 17.47                | 17.49                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 12      | 7         | 17.71                | 17.59                   | 17.66                 | 18.5                | 0        |  |
| 5                | QPSK       | 12      | 13        | 17.47                | 17.53                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.47                | 17.52                   | 17.63                 |                     |          |  |
| 5                | 16QAM      | 1       | 0         | 17.77                | 17.75                   | 17.87                 |                     |          |  |
| 5                | 16QAM      | 1       | 12        | 17.77                | 17.85                   | 17.71                 | 18.5                | 0        |  |
| 5                | 16QAM      | 1       | 24        | 17.75                | 17.84                   | 17.71                 |                     |          |  |
| 5                | 16QAM      | 12      | 0         | 17.50                | 17.49                   | 17.65                 |                     |          |  |
| 5                | 16QAM      | 12      | 7         | 17.55                | 17.66                   | 17.71                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.52                | 17.60                   | 17.61                 | 18.5                | 0        |  |
| 5                | 16QAM      | 25      | 0         | 17.51                | 17.50                   | 17.66                 |                     |          |  |
| 5                | 64QAM      | 1       | 0         | 17.66                | 17.70                   | 17.77                 |                     |          |  |
| 5                | 64QAM      | 1       | 12        | 17.67                | 17.71                   | 17.76                 |                     |          |  |
| 5                | 64QAM      | 1       | 24        | 17.68                | 17.75                   | 17.80                 | 18.5                | 0        |  |
| 5                | 64QAM      | 12      | 0         | 17.46                | 17.48                   | 17.62                 |                     |          |  |
| 5                | 64QAM      | 12      | 7         | 17.51                | 17.63                   | 17.68                 |                     |          |  |
| 5                | 64QAM      | 12      | 13        | 17.45                | 17.57                   | 17.60                 |                     |          |  |
| 5                | 64QAM      | 25      | 0         | 17.51                | 17.49                   | 17.62                 | 18.5                | 0        |  |
| Channel          |            |         |           | 20775                | 21100                   | 21425                 |                     |          |  |
| Frequency (MHz)  |            |         |           | 20925                | 20535                   | 20675                 | 18.5                | 0        |  |
| 5                | QPSK       | 1       | 0         | 17.38                | 17.43                   | 17.50                 |                     |          |  |
| 5                | QPSK       | 1       | 12        | 17.45                | 17.53                   | 17.55                 |                     |          |  |
| 5                | QPSK       | 1       | 24        | 17.45                | 17.49                   | 17.57                 |                     |          |  |
| 5                | QPSK       | 12      | 0         | 17.47                | 17.49                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 12      | 7         | 17.71                | 17.59                   | 17.66                 | 18.5                | 0        |  |
| 5                | QPSK       | 12      | 13        | 17.47                | 17.53                   | 17.60                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.47                | 17.52                   | 17.63                 |                     |          |  |
| 5                | 16QAM      | 1       | 0         | 17.77                | 17.75                   | 17.87                 |                     |          |  |
| 5                | 16QAM      | 1       | 12        | 17.77                | 17.85                   | 17.71                 | 18.5                | 0        |  |
| 5                | 16QAM      | 1       | 24        | 17.75                | 17.84                   | 17.71                 |                     |          |  |
| 5                | 16QAM      | 12      | 0         | 17.50                | 17.49                   | 17.65                 |                     |          |  |
| 5                | 16QAM      | 12      | 7         | 17.55                | 17.66                   | 17.71                 |                     |          |  |
| 5                | QPSK       | 25      | 0         | 17.52                | 17.60                   | 17.61                 | 18.5                | 0        |  |
| 5                | 16QAM      | 25      | 0         | 17.51                | 17.50                   | 17.66                 |                     |          |  |
| 5                | 64QAM      | 1       | 0         | 17.66                | 17.70                   | 17.77                 |                     |          |  |
| 5                | 64QAM      | 1       | 12        | 17.67                | 17.71                   | 17.76                 |                     |          |  |
| 5                | 64QAM      | 1       | 24        | 17.68                | 17.75                   | 17.80                 | 18.5                | 0        |  |
| 5                | 64QAM      | 12      | 0         | 17.46                | 17.48                   | 17.62                 |                     |          |  |
| 5                | 64QAM      | 12      | 7         | 17.51                | 17.63                   | 17.68                 |                     |          |  |
| 5                | 64QAM      | 12      | 13        |                      |                         |                       |                     |          |  |

| Band 66-Hotspot |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 14.56                 | 14.58                    | 14.51                  | 16                  | 0        |  |
| 20              | QPSK       | 1       | 49        | 14.36                 | 14.40                    | 14.24                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 14.36                 | 14.25                    | 14.23                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 14.42                 | 14.49                    | 14.39                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 14.15                 | 14.15                    | 14.12                  | 16                  | 0        |  |
| 20              | QPSK       | 50      | 50        | 14.23                 | 14.11                    | 14.03                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 14.07                 | 14.45                    | 14.05                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 14.09                 | 14.13                    | 14.34                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 14.30                 | 14.01                    | 14.26                  | 16                  | 0        |  |
| 20              | 16QAM      | 1       | 99        | 14.07                 | 14.05                    | 14.19                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 14.19                 | 14.40                    | 14.17                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 14.46                 | 14.19                    | 14.14                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 14.39                 | 14.32                    | 14.25                  | 16                  | 0        |  |
| 20              | 16QAM      | 100     | 0         | 14.22                 | 14.30                    | 14.27                  |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 14.20                 | 14.34                    | 14.24                  |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 14.57                 | 14.31                    | 14.44                  | 16                  | 0        |  |
| 20              | 64QAM      | 1       | 99        | 14.31                 | 14.40                    | 14.41                  |                     |          |  |
| 20              | 64QAM      | 50      | 0         | 14.53                 | 14.40                    | 14.45                  |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 14.39                 | 14.18                    | 14.26                  |                     |          |  |
| 20              | 64QAM      | 50      | 50        | 14.29                 | 14.39                    | 14.22                  | 16                  | 0        |  |
| 20              | 64QAM      | 100     | 0         | 14.39                 | 14.27                    | 14.36                  |                     |          |  |
| Channel         |            |         |           | 132047                | 132322                   | 132597                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 14.41                 | 14.33                    | 14.29                  | 16                  | 0        |  |
| 15              | QPSK       | 1       | 37        | 14.37                 | 14.19                    | 14.14                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 14.05                 | 14.03                    | 14.18                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 14.35                 | 14.33                    | 14.34                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 14.46                 | 14.38                    | 14.20                  | 16                  | 0        |  |
| 15              | QPSK       | 36      | 39        | 14.54                 | 14.15                    | 14.34                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 14.44                 | 14.16                    | 14.43                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 14.43                 | 14.52                    | 14.51                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 14.64                 | 14.46                    | 14.33                  | 16                  | 0        |  |
| 15              | 16QAM      | 1       | 74        | 14.64                 | 14.19                    | 14.30                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 14.56                 | 14.23                    | 14.27                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 14.31                 | 14.21                    | 14.29                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 14.38                 | 14.20                    | 14.17                  | 16                  | 0        |  |
| 15              | 16QAM      | 75      | 0         | 14.47                 | 14.33                    | 14.32                  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 14.37                 | 14.67                    | 14.27                  |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 14.67                 | 14.25                    | 14.25                  | 16                  | 0        |  |
| 15              | 64QAM      | 1       | 74        | 14.64                 | 14.53                    | 14.59                  |                     |          |  |
| 15              | 64QAM      | 36      | 0         | 14.61                 | 14.42                    | 14.40                  |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 14.46                 | 14.32                    | 14.30                  |                     |          |  |
| 15              | 64QAM      | 36      | 39        | 14.35                 | 14.28                    | 14.44                  | 16                  | 0        |  |
| 15              | 64QAM      | 75      | 0         | 14.38                 | 14.33                    | 14.19                  |                     |          |  |
| Channel         |            |         |           | 132022                | 132322                   | 132622                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10              | QPSK       | 1       | 0         | 14.55                 | 14.44                    | 14.31                  | 16                  | 0        |  |
| 10              | QPSK       | 1       | 25        | 14.53                 | 14.38                    | 14.16                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 14.08                 | 14.17                    | 14.25                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 14.11                 | 14.12                    | 14.16                  |                     |          |  |
| 10              | QPSK       | 25      | 12        | 14.35                 | 14.10                    | 14.12                  | 16                  | 0        |  |
| 10              | QPSK       | 25      | 25        | 14.29                 | 14.14                    | 14.19                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 14.28                 | 14.13                    | 14.31                  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 14.30                 | 14.35                    | 14.34                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 14.42                 | 14.20                    | 14.09                  | 16                  | 0        |  |
| 10              | 16QAM      | 1       | 49        | 14.51                 | 14.09                    | 14.19                  |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 14.28                 | 14.13                    | 14.12                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 14.18                 | 14.16                    | 14.14                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 14.12                 | 14.06                    | 14.18                  | 16                  | 0        |  |
| 10              | 16QAM      | 50      | 0         | 14.19                 | 14.09                    | 14.09                  |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 14.25                 | 14.41                    | 14.18                  |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 14.57                 | 14.25                    | 14.15                  | 16                  | 0        |  |
| 10              | 64QAM      | 1       | 49        | 14.50                 | 14.36                    | 14.36                  |                     |          |  |
| 10              | 64QAM      | 25      | 0         | 14.50                 | 14.22                    | 14.14                  |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 14.29                 | 14.18                    | 14.06                  |                     |          |  |
| 10              | 64QAM      | 25      | 25        | 14.21                 | 14.16                    | 14.32                  | 16                  | 0        |  |
| 10              | 64QAM      | 50      | 0         | 14.12                 | 14.19                    | 14.12                  |                     |          |  |
| Channel         |            |         |           | 131997                | 132322                   | 132647                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1772.5                 |                     |          |  |
| 5               | QPSK       | 1       | 0         | 14.44                 | 14.59                    | 14.53                  | 16                  | 0        |  |
| 5               | QPSK       | 1       | 12        | 14.32                 | 14.41                    | 14.57                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 14.41                 | 14.45                    | 14.31                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 14.16                 | 14.30                    | 14.20                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 14.01                 | 14.34                    | 14.13                  | 16                  | 0        |  |
| 5               | QPSK       | 12      | 13        | 14.08                 | 14.10                    | 14.02                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 14.05                 | 14.02                    | 14.17                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 14.49                 | 14.20                    | 14.09                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 14.44                 | 14.43                    | 14.12                  | 16                  | 0        |  |
| 5               | 16QAM      | 1       | 24        | 14.38                 | 14.18                    | 14.14                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 14.12                 | 14.12                    | 14.12                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 14.13                 | 14.34                    | 14.03                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 14.11                 | 14.09                    | 14.07                  | 16                  | 0        |  |
| 5               | 16QAM      | 25      | 0         | 14.12                 | 14.19                    | 14.06                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 14.00                 | 14.25                    | 14.14                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 14.33                 | 14.47                    | 14.02                  | 16                  | 0        |  |
| 5               | 64QAM      | 1       | 24        | 14.22                 | 14.21                    | 14.49                  |                     |          |  |
| 5               | 64QAM      | 12      | 0         | 14.15                 | 14.33                    | 14.25                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 14.15                 | 14.19                    | 14.11                  |                     |          |  |
| 5               | 64QAM      | 12      | 13        | 14.08                 | 14.15                    | 14.20                  | 16                  | 0        |  |
| 5               | 64QAM      | 12      | 13        | 14.08                 | 14.15                    | 14.20                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 14.18                 | 14.09                    | 14.13                  |                     |          |  |
| Channel         |            |         |           | 131987                | 132322                   | 132697                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1711.5                | 1745                     | 1778.5                 |                     |          |  |
| 3               | QPSK       | 1       | 0         | 14.43                 | 14.34                    | 14.32                  | 16                  | 0        |  |
| 3               | QPSK       | 1       | 8         | 14.45                 | 14.48                    | 14.26                  |                     |          |  |
| 3               | QPSK       | 1       | 14        | 14.43                 | 14.31                    | 14.37                  |                     |          |  |
| 3               | QPSK       | 8       | 0         | 14.20                 | 14.27                    | 14.00                  |                     |          |  |
| 3               | QPSK       | 8       | 4         | 14.34                 | 14.14                    | 14.10                  | 16                  | 0        |  |
| 3               | QPSK       | 8       | 7         | 14.03                 | 14.06                    | 14.07                  |                     |          |  |
| 3               | QPSK       | 15      | 0         | 14.14                 | 14.12                    | 14.03                  |                     |          |  |
| 3               | 16QAM      | 1       | 0         | 14.21                 | 14.18                    | 14.52                  |                     |          |  |
| 3               | 16QAM      | 1       | 8         | 14.32                 | 14.19                    | 14.27                  | 16                  | 0        |  |
| 3               | 16QAM      | 1       | 14        | 14.20                 | 14.17                    | 14.27                  |                     |          |  |
| 3               | 16QAM      | 8       | 0         | 14.13                 | 14.25                    | 14.12                  |                     |          |  |
| 3               | 16QAM      | 8       | 4         | 14.25                 | 14.13                    | 14.11                  |                     |          |  |
| 3               | 16QAM      | 8       | 7         | 14.09                 | 14.21                    | 14.02                  | 16                  | 0        |  |
| 3               | 16QAM      | 15      | 0         | 14.12                 | 14.05                    | 14.13                  |                     |          |  |
| 3               | 64QAM      | 1       | 0         | 14.16                 | 14.07                    | 14.03                  |                     |          |  |
| 3               | 64QAM      | 1       | 8         | 14.27                 | 14.21                    | 14.30                  | 16                  | 0        |  |
| 3               | 64QAM      | 1       | 14        | 14.08                 | 14.45                    | 14.29                  |                     |          |  |
| 3               | 64QAM      | 8       | 0         | 14.23                 | 14.13                    | 14.17                  |                     |          |  |
| 3               | 64QAM      | 8       | 4         | 14.26                 | 14.09                    | 14.06                  |                     |          |  |
| 3               | 64QAM      | 8       | 7         | 14.02                 | 14.14                    | 14.11                  | 16                  | 0        |  |
| 3               | 64QAM      | 15      | 0         | 14.26                 | 14.09                    | 14.19                  |                     |          |  |
| Channel         |            |         |           | 131979                | 132322                   | 132695                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1710.7                | 1745                     | 1779.3                 |                     |          |  |
| 1.4             | QPSK       | 1       | 0         | 14.33                 | 14.53                    | 14.25                  | 16                  | 0        |  |
| 1.4             | QPSK       | 1       | 3         | 14.27                 | 14.47                    | 14.52                  |                     |          |  |
| 1.4             | QPSK       | 1       | 5         | 14.40                 | 14.53                    | 14.43                  |                     |          |  |
| 1.4             | QPSK       | 3       | 0         | 14.18                 | 14.34                    | 14.16                  |                     |          |  |
| 1.4             | QPSK       | 3       | 1         | 14.06                 | 14.30                    | 14.10                  | 16                  | 0        |  |
| 1.4             | QPSK       | 3       | 3         | 14.10                 | 14.10                    | 14.02                  |                     |          |  |
| 1.4             | QPSK       | 6       | 0         | 14.09                 | 14.03                    | 14.17                  |                     |          |  |
| 1.4             | 16QAM      | 1       | 0         | 14.38                 | 14.15                    | 14.15                  |                     |          |  |
| 1.4             | 16QAM      | 1       | 3         | 14.26                 | 14.42                    | 14.16                  | 16                  | 0        |  |
| 1.4             | 16QAM      | 1       | 5         | 14.37                 | 14.21                    | 14.08                  |                     |          |  |
| 1.4             | 16QAM      | 3       | 0         | 14.15                 | 14.15                    | 14.27                  |                     |          |  |
| 1.4             | 16QAM      | 3       | 1         | 14.02                 | 14.34                    | 14.06                  |                     |          |  |
| 1.4             | 16QAM      | 3       | 3         | 14.08                 | 14.12                    | 14.19                  | 16                  | 0        |  |
| 1.4             | 16QAM      | 6       | 0         | 14.07                 | 14.01                    | 14.04                  |                     |          |  |
| 1.4             | 64QAM      | 1       | 0         | 14.05                 | 14.15                    | 14.10                  |                     |          |  |
| 1.4             | 64QAM      | 1       | 3         | 14.18                 | 14.33                    | 14.12                  |                     |          |  |
| 1.4             | 64QAM      | 1       | 5         | 14.21                 | 14.18                    | 14.51                  | 16                  | 0        |  |
| 1.4             | 64QAM      | 3       | 0         | 14.20                 | 14.35                    | 14.21                  |                     |          |  |
| 1.4             | 64QAM      | 3       | 1         | 14.15                 | 14.17                    | 14.15                  |                     |          |  |
| 1.4             | 64QAM      | 3       | 3         | 14.03                 | 14.03                    | 14.13                  |                     |          |  |
| 1.4             | 64QAM      | 6       | 0         | 14.16                 | 14.17                    | 14.08                  | 16                  | 0        |  |



| Band 38-Body Worn |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
|-------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|--|--|--|--|--|--|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 37850 38000 38150 |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 20                | QPSK       | 1       | 0         | 17.53                 | 17.69                 | 17.37                  | 18.5                | 0        |  |  |  |  |  |  |
| 20                | QPSK       | 1       | 40        | 17.68                 | 17.70                 | 17.78                  |                     |          |  |  |  |  |  |  |
| 20                | QPSK       | 1       | 80        | 17.59                 | 17.74                 | 17.79                  |                     |          |  |  |  |  |  |  |
| 20                | QPSK       | 50      | 0         | 17.53                 | 17.53                 | 17.59                  |                     |          |  |  |  |  |  |  |
| 20                | QPSK       | 50      | 24        | 17.59                 | 17.66                 | 17.72                  | 18.5                | 0        |  |  |  |  |  |  |
| 20                | QPSK       | 50      | 50        | 17.62                 | 17.68                 | 17.73                  |                     |          |  |  |  |  |  |  |
| 20                | QPSK       | 100     | 0         | 17.51                 | 17.56                 | 17.63                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 1       | 0         | 17.68                 | 17.79                 | 17.85                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 1       | 40        | 17.78                 | 17.75                 | 17.85                  | 18.5                | 0        |  |  |  |  |  |  |
| 20                | 16QAM      | 1       | 50        | 17.75                 | 17.81                 | 17.95                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 50      | 0         | 17.40                 | 17.55                 | 17.58                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 50      | 24        | 17.70                 | 17.69                 | 17.75                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 50      | 50        | 17.64                 | 17.71                 | 17.76                  | 18.5                | 0        |  |  |  |  |  |  |
| 20                | 16QAM      | 100     | 0         | 17.50                 | 17.57                 | 17.55                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 1       | 0         | 17.52                 | 17.73                 | 17.71                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 1       | 40        | 17.48                 | 17.69                 | 17.73                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 1       | 80        | 17.60                 | 17.73                 | 17.78                  | 18.5                | 0        |  |  |  |  |  |  |
| 20                | 16QAM      | 50      | 0         | 17.42                 | 17.48                 | 17.53                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 50      | 24        | 17.55                 | 17.65                 | 17.67                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 50      | 50        | 17.60                 | 17.66                 | 17.70                  |                     |          |  |  |  |  |  |  |
| 20                | 16QAM      | 100     | 0         | 17.52                 | 17.60                 | 17.67                  |                     |          |  |  |  |  |  |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 37825 38000 38175 |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 15                | QPSK       | 1       | 0         | 17.36                 | 17.60                 | 17.49                  | 18.5                | 0        |  |  |  |  |  |  |
| 15                | QPSK       | 1       | 37        | 17.59                 | 17.66                 | 17.73                  |                     |          |  |  |  |  |  |  |
| 15                | QPSK       | 1       | 74        | 17.65                 | 17.70                 | 17.78                  |                     |          |  |  |  |  |  |  |
| 15                | QPSK       | 36      | 0         | 17.61                 | 17.70                 | 17.78                  |                     |          |  |  |  |  |  |  |
| 15                | QPSK       | 36      | 36        | 17.70                 | 17.70                 | 17.78                  | 18.5                | 0        |  |  |  |  |  |  |
| 15                | QPSK       | 36      | 36        | 17.64                 | 17.73                 | 17.80                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 75      | 0         | 17.55                 | 17.64                 | 17.73                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 1       | 1         | 17.71                 | 17.73                 | 17.82                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 1       | 37        | 17.61                 | 17.79                 | 17.89                  | 18.5                | 0        |  |  |  |  |  |  |
| 15                | ISGMM      | 1       | 74        | 17.63                 | 17.65                 | 17.75                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 36      | 0         | 17.55                 | 17.54                 | 17.62                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 36      | 36        | 17.68                 | 17.63                 | 17.73                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 36      | 36        | 17.63                 | 17.66                 | 17.76                  | 18.5                | 0        |  |  |  |  |  |  |
| 15                | ISGMM      | 75      | 0         | 17.67                 | 17.63                 | 17.72                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 1       | 0         | 17.52                 | 17.56                 | 17.77                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 1       | 37        | 17.52                 | 17.62                 | 17.85                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 1       | 74        | 17.67                 | 17.77                 | 17.81                  | 18.5                | 0        |  |  |  |  |  |  |
| 15                | ISGMM      | 36      | 0         | 17.59                 | 17.61                 | 17.69                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 36      | 36        | 17.69                 | 17.67                 | 17.80                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 36      | 36        | 17.64                 | 17.74                 | 17.81                  |                     |          |  |  |  |  |  |  |
| 15                | ISGMM      | 75      | 0         | 17.55                 | 17.62                 | 17.73                  |                     |          |  |  |  |  |  |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 37800 38000 38200 |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 10                | QPSK       | 1       | 0         | 17.55                 | 17.61                 | 17.59                  | 18.5                | 0        |  |  |  |  |  |  |
| 10                | QPSK       | 1       | 25        | 17.53                 | 17.58                 | 17.71                  |                     |          |  |  |  |  |  |  |
| 10                | QPSK       | 1       | 40        | 17.27                 | 17.68                 | 17.76                  |                     |          |  |  |  |  |  |  |
| 10                | QPSK       | 25      | 0         | 17.56                 | 17.56                 | 17.55                  |                     |          |  |  |  |  |  |  |
| 10                | QPSK       | 25      | 12        | 17.66                 | 17.64                 | 17.75                  | 18.5                | 0        |  |  |  |  |  |  |
| 10                | QPSK       | 25      | 25        | 17.63                 | 17.66                 | 17.78                  |                     |          |  |  |  |  |  |  |
| 10                | QPSK       | 50      | 0         | 17.50                 | 17.58                 | 17.69                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 1       | 0         | 17.51                 | 17.72                 | 17.80                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 1       | 25        | 17.59                 | 17.74                 | 17.81                  | 18.5                | 0        |  |  |  |  |  |  |
| 10                | 16QAM      | 1       | 40        | 17.43                 | 17.77                 | 17.85                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 25      | 0         | 17.58                 | 17.56                 | 17.69                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 25      | 12        | 17.68                 | 17.60                 | 17.80                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 25      | 25        | 17.63                 | 17.69                 | 17.78                  | 18.5                | 0        |  |  |  |  |  |  |
| 10                | 16QAM      | 50      | 0         | 17.61                 | 17.61                 | 17.70                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 1       | 0         | 17.55                 | 17.59                 | 17.67                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 1       | 25        | 17.61                 | 17.60                 | 17.77                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 1       | 40        | 17.56                 | 17.74                 | 17.77                  | 18.5                | 0        |  |  |  |  |  |  |
| 10                | 16QAM      | 25      | 0         | 17.54                 | 17.62                 | 17.83                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 25      | 12        | 17.65                 | 17.68                 | 17.76                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 25      | 25        | 17.57                 | 17.68                 | 17.76                  |                     |          |  |  |  |  |  |  |
| 10                | 16QAM      | 50      | 0         | 17.54                 | 17.59                 | 17.65                  |                     |          |  |  |  |  |  |  |
| Channel           |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 37775 38000 38225 |            |         |           |                       |                       |                        |                     |          |  |  |  |  |  |  |
| 5                 | QPSK       | 1       | 0         | 17.51                 | 17.51                 | 17.68                  | 18.5                | 0        |  |  |  |  |  |  |
| 5                 | QPSK       | 1       | 12        | 17.53                 | 17.62                 | 17.72                  |                     |          |  |  |  |  |  |  |
| 5                 | QPSK       | 1       | 24        | 17.51                 | 17.61                 | 17.71                  |                     |          |  |  |  |  |  |  |
| 5                 | QPSK       | 12      | 0         | 17.62                 | 17.63                 | 17.79                  |                     |          |  |  |  |  |  |  |
| 5                 | QPSK       | 12      | 7         | 17.69                 | 17.74                 | 17.84                  | 18.5                | 0        |  |  |  |  |  |  |
| 5                 | QPSK       | 12      | 13        | 17.64                 | 17.75                 | 17.84                  |                     |          |  |  |  |  |  |  |
| 5                 | QPSK       | 25      | 0         | 17.64                 | 17.64                 | 17.81                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 1       | 0         | 17.58                 | 17.66                 | 17.81                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 1       | 12        | 17.73                 | 17.80                 | 17.92                  | 18.5                | 0        |  |  |  |  |  |  |
| 5                 | 15QAM      | 1       | 24        | 17.67                 | 17.75                 | 17.88                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 12      | 0         | 17.62                 | 17.61                 | 17.75                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 12      | 7         | 17.62                 | 17.73                 | 17.84                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 12      | 13        | 17.64                 | 17.68                 | 17.82                  | 18.5                | 0        |  |  |  |  |  |  |
| 5                 | 15QAM      | 25      | 0         | 17.65                 | 17.65                 | 17.83                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 1       | 0         | 17.57                 | 17.57                 | 17.85                  |                     |          |  |  |  |  |  |  |
| 5                 | 15QAM      | 1       | 24        | 17.43                 | 17.51                 | 17.80                  |                     |          |  |  |  |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 17.59                 | 17.69                 | 17.77                  | 18.5                | 0        |  |  |  |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 17.69                 | 17.73                 | 17.94                  |                     |          |  |  |  |  |  |  |
| 5                 | 16QAM      | 12      | 13        | 17.61                 | 17.70                 | 17.81                  |                     |          |  |  |  |  |  |  |
| 5                 | 16QAM      | 25      | 0         | 17.59                 | 17.63                 | 17.78                  |                     |          |  |  |  |  |  |  |

| Band 38-Hotspot |            |         |           |                       |                       |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz) |            |         |           |                       |                       |                        |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 14.82                 | 14.88                 | 14.87                  | 15.5                | 0        |  |  |
| 20              | QPSK       | 1       | 40        | 14.87                 | 14.91                 | 14.94                  |                     |          |  |  |
| 20              | QPSK       | 1       | 80        | 14.91                 | 14.94                 | 14.98                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 14.70                 | 14.77                 | 14.83                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 14.92                 | 14.90                 | 14.95                  | 15.5                | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 14.87                 | 14.90                 | 14.93                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 14.82                 | 14.85                 | 14.84                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 14.51                 | 14.53                 | 14.51                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 40        | 14.54                 | 14.59                 | 14.95                  | 15.5                | 0        |  |  |
| 20              | 16QAM      | 1       | 50        | 14.64                 | 14.67                 | 14.71                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 14.33                 | 14.38                 | 14.46                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 14.45                 | 14.42                 | 14.95                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 14.48                 | 14.54                 | 14.60                  | 15.5                | 0        |  |  |
| 20              | 16QAM      | 100     | 0         | 14.48                 | 14.44                 | 14.48                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 14.25                 | 14.27                 | 14.34                  | 15.5                | 0        |  |  |
| 20              | 64QAM      | 1       | 40        | 14.25                 | 14.32                 | 14.33                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 50        | 14.35                 | 14.40                 | 14.43                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 0         | 14.11                 | 14.13                 | 14.27                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 14.49                 | 14.45                 | 14.52                  | 15.5                | 0        |  |  |
| 20              | 64QAM      | 50      | 50        | 14.44                 | 14.48                 | 14.55                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 14.51                 | 14.49                 | 14.52                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 14.51                 | 14.53                 | 14.51                  |                     |          |  |  |
| Channel         |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz) |            |         |           |                       |                       |                        |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 14.77                 | 14.84                 | 14.90                  | 15.5                | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 14.79                 | 14.90                 | 14.95                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 14.89                 | 14.91                 | 14.95                  |                     |          |  |  |
| 15              | QPSK       | 1       | 80        | 14.80                 | 14.80                 | 14.75                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 14.91                 | 14.88                 | 15.02                  | 15.5                | 0        |  |  |
| 15              | QPSK       | 36      | 56        | 14.89                 | 14.89                 | 14.95                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 14.88                 | 14.85                 | 14.97                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 14.56                 | 14.50                 | 14.58                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 14.54                 | 14.60                 | 14.57                  | 15.5                | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 14.82                 | 14.88                 | 14.74                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 14.60                 | 14.35                 | 14.47                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 36        | 14.47                 | 14.50                 | 14.48                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 56        | 14.46                 | 14.54                 | 14.62                  | 15.5                | 0        |  |  |
| 15              | 16QAM      | 75      | 0         | 14.49                 | 14.43                 | 14.50                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 14.30                 | 14.32                 | 14.33                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 14.36                 | 14.38                 | 14.44                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 14.39                 | 14.37                 | 14.45                  | 15.5                | 0        |  |  |
| 15              | 64QAM      | 1       | 80        | 14.48                 | 14.44                 | 14.41                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 14.54                 | 14.55                 | 14.58                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 56        | 14.49                 | 14.52                 | 14.58                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 14.50                 | 14.50                 | 14.45                  | 15.5                | 0        |  |  |
| 15              | 64QAM      | 1       | 0         | 14.60                 | 14.55                 | 14.50                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 14.60                 | 14.55                 | 14.50                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 14.62                 | 14.58                 | 14.74                  |                     |          |  |  |
| Channel         |            |         |           |                       |                       |                        |                     |          |  |  |
| Frequency (MHz) |            |         |           |                       |                       |                        |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 14.48                 | 14.77                 | 14.84                  | 15.5                | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 14.47                 | 14.49                 | 14.93                  |                     |          |  |  |
| 10              | QPSK       | 1       | 40        | 14.57                 | 14.57                 | 14.59                  |                     |          |  |  |
| 10              | QPSK       | 26      | 0         | 14.80                 | 14.82                 | 14.88                  |                     |          |  |  |
| 10              | QPSK       | 26      | 12        | 14.80                 | 14.83                 | 14.94                  | 15.5                | 0        |  |  |
| 10              | QPSK       | 26      | 25        | 14.85                 | 14.86                 | 14.89                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 14.83                 | 14.81                 | 14.80                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 14.18                 | 14.09                 | 14.87                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 14.21                 | 14.17                 | 14.87                  | 15.5                | 0        |  |  |
| 10              | 16QAM      | 1       | 40        | 14.25                 | 14.62                 | 14.88                  |                     |          |  |  |
| 10              | 16QAM      | 26      | 0         | 14.35                 | 14.36                 | 14.43                  |                     |          |  |  |
| 10              | 16QAM      | 26      | 12        | 14.30                 | 14.32                 | 14.43                  |                     |          |  |  |
| 10              | 16QAM      | 26      | 25        | 14.40                 | 14.48                 | 14.58                  | 15.5                | 0        |  |  |
| 10              | 16QAM      | 50      | 0         | 14.45                 | 14.43                 | 14.48                  |                     |          |  |  |
| 10              | 16QAM      | 50      | 12        | 14.38                 | 14.42                 | 14.48                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 14.32                 | 14.38                 | 14.45                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 40        | 14.11                 | 14.47                 | 14.53                  | 15.5                | 0        |  |  |
| 10              | 64QAM      | 1       | 50        | 14.33                 | 14.37                 | 14.48                  |                     |          |  |  |
| 10              | 64QAM      | 26      | 12        | 14.49                 | 14.43                 | 14.58                  |                     |          |  |  |
| 10              | 64QAM      | 26      | 25        | 14.41                 | 14.49                 | 14.58                  |                     |          |  |  |
| 10              | 64QAM      | 26      | 50        | 14.40                 | 14.41                 | 14.49                  | 15.5                | 0        |  |  |
| 10              | 64QAM      | 50      | 0         | 14.55                 | 14.56                 | 14.57                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 12        | 14.52                 | 14.52                 | 14.52                  |                     |          |  |  |
| 10              | 64QAM      | 12      | 13        | 14.51                 | 14.59                 | 14.66                  |                     |          |  |  |
| 10              | 64QAM      | 26      | 0         | 14.55                 | 14.59                 | 14.66                  | 15.5                | 0        |  |  |
| 10              | 64QAM      | 26      | 12        | 14.58                 | 14.57                 | 14.63                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 12        | 14.32                 | 14.41                 | 14.46                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 24        | 14.31                 | 14.41                 | 14.45                  |                     |          |  |  |
| 10              | 64QAM      | 14      | 0         | 14.47                 | 14.45                 | 14.55                  | 15.5                | 0        |  |  |
| 10              | 64QAM      | 14      | 7         | 14.42                 | 14.38                 | 14.74                  |                     |          |  |  |
| 10              | 64QAM      | 14      | 13        | 14.46                 | 14.46                 | 14.68                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 0         | 14.46                 | 14.44                 | 14.58                  |                     |          |  |  |



| Band 41-Body Worn |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
|-------------------|------------|---------|-----------|-----------------------|---------------------------|----------------------------|------------------------|---------------------|----------|---|--|--|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power Mid-High Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB) |   |  |  |  |
| Channel           |            |         |           | 39750                 | 40185                     | 40620                      | 41055                  | 41490               |          |   |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| 20                | QPSK       | 1       | 0         | 17.91                 | 17.93                     | 17.97                      | 17.85                  | 17.84               | 18.5     | 0 |  |  |  |
| 20                | QPSK       | 1       | 49        | 17.93                 | 17.90                     | 17.86                      | 17.70                  | 17.54               |          |   |  |  |  |
| 20                | QPSK       | 1       | 99        | 17.86                 | 17.94                     | 17.76                      | 17.59                  | 17.30               |          |   |  |  |  |
| 20                | QPSK       | 50      | 0         | 17.90                 | 17.86                     | 17.84                      | 17.82                  | 17.91               |          |   |  |  |  |
| 20                | QPSK       | 50      | 24        | 17.72                 | 17.88                     | 17.85                      | 17.81                  | 17.89               |          |   |  |  |  |
| 20                | QPSK       | 50      | 50        | 17.88                 | 17.88                     | 17.75                      | 17.89                  | 17.68               | 18.5     | 0 |  |  |  |
| 20                | QPSK       | 100     | 0         | 17.80                 | 17.90                     | 17.86                      | 17.70                  | 17.72               |          |   |  |  |  |
| 20                | 16QAM      | 1       | 0         | 17.70                 | 17.86                     | 17.85                      | 17.86                  | 17.86               |          |   |  |  |  |
| 20                | 16QAM      | 1       | 49        | 17.87                 | 17.86                     | 17.76                      | 17.81                  | 17.72               |          |   |  |  |  |
| 20                | 16QAM      | 1       | 99        | 17.88                 | 17.74                     | 17.54                      | 17.37                  | 17.67               |          |   |  |  |  |
| 20                | 16QAM      | 50      | 0         | 17.82                 | 17.80                     | 17.85                      | 17.76                  | 17.84               | 18.5     | 0 |  |  |  |
| 20                | 16QAM      | 50      | 24        | 17.74                 | 17.71                     | 17.79                      | 17.81                  | 17.71               |          |   |  |  |  |
| 20                | 16QAM      | 50      | 50        | 17.72                 | 17.80                     | 17.75                      | 17.83                  | 17.79               |          |   |  |  |  |
| 20                | 16QAM      | 100     | 0         | 17.66                 | 17.58                     | 17.70                      | 17.73                  | 17.72               |          |   |  |  |  |
| 20                | 64QAM      | 1       | 0         | 17.54                 | 17.49                     | 17.27                      | 17.29                  | 17.53               |          |   |  |  |  |
| 20                | 64QAM      | 1       | 49        | 17.46                 | 17.63                     | 17.60                      | 17.68                  | 17.64               | 18.5     | 0 |  |  |  |
| 20                | 64QAM      | 1       | 99        | 17.42                 | 17.48                     | 17.29                      | 17.67                  | 17.46               |          |   |  |  |  |
| 20                | 64QAM      | 50      | 0         | 17.58                 | 17.53                     | 17.50                      | 17.68                  | 17.58               |          |   |  |  |  |
| 20                | 64QAM      | 50      | 24        | 17.67                 | 17.61                     | 17.73                      | 17.77                  | 17.74               |          |   |  |  |  |
| 20                | 64QAM      | 50      | 50        | 17.63                 | 17.52                     | 17.69                      | 17.56                  | 17.74               |          |   |  |  |  |
| 20                | 64QAM      | 100     | 0         | 17.69                 | 17.62                     | 17.73                      | 17.74                  | 17.77               | 18.5     | 0 |  |  |  |
| Channel           |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| 15                | QPSK       | 1       | 0         | 17.81                 | 17.36                     | 17.43                      | 17.58                  | 17.52               | 18.5     | 0 |  |  |  |
| 15                | QPSK       | 1       | 37        | 17.62                 | 17.59                     | 17.46                      | 17.20                  | 17.74               |          |   |  |  |  |
| 15                | QPSK       | 1       | 74        | 17.64                 | 17.39                     | 17.69                      | 17.46                  | 17.72               |          |   |  |  |  |
| 15                | QPSK       | 36      | 0         | 17.64                 | 17.61                     | 17.69                      | 17.76                  | 17.66               |          |   |  |  |  |
| 15                | QPSK       | 36      | 20        | 17.72                 | 17.67                     | 17.81                      | 17.82                  | 17.77               |          |   |  |  |  |
| 15                | QPSK       | 36      | 39        | 17.70                 | 17.69                     | 17.78                      | 17.72                  | 17.84               | 18.5     | 0 |  |  |  |
| 15                | QPSK       | 76      | 0         | 17.70                 | 17.61                     | 17.69                      | 17.77                  | 17.73               |          |   |  |  |  |
| 15                | 16QAM      | 1       | 0         | 17.65                 | 17.46                     | 17.50                      | 17.72                  | 17.53               |          |   |  |  |  |
| 15                | 16QAM      | 1       | 37        | 17.73                 | 17.64                     | 17.72                      | 17.82                  | 17.80               |          |   |  |  |  |
| 15                | 16QAM      | 1       | 74        | 17.76                 | 17.65                     | 17.76                      | 17.81                  | 17.74               |          |   |  |  |  |
| 15                | 16QAM      | 36      | 0         | 17.60                 | 17.59                     | 17.65                      | 17.74                  | 17.57               | 18.5     | 0 |  |  |  |
| 15                | 16QAM      | 36      | 20        | 17.68                 | 17.65                     | 17.77                      | 17.80                  | 17.73               |          |   |  |  |  |
| 15                | 16QAM      | 36      | 39        | 17.68                 | 17.68                     | 17.76                      | 17.80                  | 17.77               |          |   |  |  |  |
| 15                | 16QAM      | 76      | 0         | 17.70                 | 17.64                     | 17.76                      | 17.80                  | 17.73               |          |   |  |  |  |
| 15                | 64QAM      | 1       | 0         | 17.52                 | 17.35                     | 17.47                      | 17.49                  | 17.45               |          |   |  |  |  |
| 15                | 64QAM      | 1       | 37        | 17.45                 | 17.68                     | 17.66                      | 17.69                  | 17.58               | 18.5     | 0 |  |  |  |
| 15                | 64QAM      | 1       | 74        | 17.44                 | 17.69                     | 17.50                      | 17.33                  | 17.83               |          |   |  |  |  |
| 15                | 64QAM      | 36      | 0         | 17.65                 | 17.63                     | 17.69                      | 17.79                  | 17.65               |          |   |  |  |  |
| 15                | 64QAM      | 36      | 20        | 17.76                 | 17.69                     | 17.80                      | 17.83                  | 17.81               |          |   |  |  |  |
| 15                | 64QAM      | 36      | 39        | 17.71                 | 17.62                     | 17.80                      | 17.75                  | 17.86               |          |   |  |  |  |
| 15                | 64QAM      | 76      | 0         | 17.70                 | 17.63                     | 17.70                      | 17.80                  | 17.72               | 18.5     | 0 |  |  |  |
| Channel           |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| 10                | QPSK       | 1       | 0         | 17.63                 | 17.51                     | 17.41                      | 17.50                  | 17.48               | 18.5     | 0 |  |  |  |
| 10                | QPSK       | 1       | 25        | 17.66                 | 17.64                     | 17.76                      | 17.74                  | 17.75               |          |   |  |  |  |
| 10                | QPSK       | 1       | 49        | 17.71                 | 17.42                     | 17.51                      | 17.60                  | 17.50               |          |   |  |  |  |
| 10                | QPSK       | 25      | 0         | 17.76                 | 17.67                     | 17.77                      | 17.76                  | 17.59               |          |   |  |  |  |
| 10                | QPSK       | 25      | 12        | 17.79                 | 17.74                     | 17.84                      | 17.86                  | 17.85               |          |   |  |  |  |
| 10                | QPSK       | 25      | 25        | 17.76                 | 17.69                     | 17.76                      | 17.77                  | 17.75               | 18.5     | 0 |  |  |  |
| 10                | QPSK       | 50      | 0         | 17.71                 | 17.69                     | 17.76                      | 17.80                  | 17.76               |          |   |  |  |  |
| 10                | 16QAM      | 1       | 0         | 17.62                 | 17.49                     | 17.53                      | 17.61                  | 17.57               |          |   |  |  |  |
| 10                | 16QAM      | 1       | 25        | 17.76                 | 17.71                     | 17.79                      | 17.83                  | 17.78               |          |   |  |  |  |
| 10                | 16QAM      | 1       | 49        | 17.77                 | 17.53                     | 17.59                      | 17.65                  | 17.54               |          |   |  |  |  |
| 10                | 16QAM      | 25      | 0         | 17.84                 | 17.69                     | 17.76                      | 17.80                  | 17.74               | 18.5     | 0 |  |  |  |
| 10                | 16QAM      | 25      | 12        | 17.84                 | 17.77                     | 17.86                      | 17.81                  | 17.76               |          |   |  |  |  |
| 10                | 16QAM      | 25      | 25        | 17.80                 | 17.67                     | 17.75                      | 17.76                  | 17.78               |          |   |  |  |  |
| 10                | 16QAM      | 50      | 0         | 17.75                 | 17.69                     | 17.79                      | 17.81                  | 17.73               |          |   |  |  |  |
| 10                | 64QAM      | 1       | 0         | 17.64                 | 17.41                     | 17.42                      | 17.48                  | 17.46               |          |   |  |  |  |
| 10                | 64QAM      | 1       | 25        | 17.57                 | 17.56                     | 17.73                      | 17.75                  | 17.70               | 18.5     | 0 |  |  |  |
| 10                | 64QAM      | 1       | 49        | 17.63                 | 17.36                     | 17.48                      | 17.47                  | 17.47               |          |   |  |  |  |
| 10                | 64QAM      | 25      | 0         | 17.77                 | 17.64                     | 17.73                      | 17.76                  | 17.67               |          |   |  |  |  |
| 10                | 64QAM      | 25      | 12        | 17.80                 | 17.77                     | 17.82                      | 17.75                  | 17.73               |          |   |  |  |  |
| 10                | 64QAM      | 25      | 25        | 17.74                 | 17.66                     | 17.72                      | 17.77                  | 17.75               |          |   |  |  |  |
| 10                | 64QAM      | 50      | 0         | 17.67                 | 17.63                     | 17.76                      | 17.76                  | 17.69               | 18.5     | 0 |  |  |  |
| Channel           |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| Frequency (MHz)   |            |         |           |                       |                           |                            |                        |                     |          |   |  |  |  |
| 5                 | QPSK       | 1       | 0         | 17.69                 | 17.60                     | 17.70                      | 17.72                  | 17.67               | 18.5     | 0 |  |  |  |
| 5                 | QPSK       | 1       | 12        | 17.62                 | 17.57                     | 17.68                      | 17.68                  | 17.78               |          |   |  |  |  |
| 5                 | QPSK       | 1       | 24        | 17.61                 | 17.53                     | 17.65                      | 17.63                  | 17.62               |          |   |  |  |  |
| 5                 | QPSK       | 12      | 0         | 17.76                 | 17.70                     | 17.82                      | 17.85                  | 17.82               |          |   |  |  |  |
| 5                 | QPSK       | 12      | 7         | 17.77                 | 17.74                     | 17.83                      | 17.87                  | 17.83               |          |   |  |  |  |
| 5                 | QPSK       | 12      | 13        | 17.77                 | 17.71                     | 17.82                      | 17.85                  | 17.82               | 18.5     | 0 |  |  |  |
| 5                 | QPSK       | 25      | 0         | 17.71                 | 17.71                     | 17.79                      | 17.84                  | 17.82               |          |   |  |  |  |
| 5                 | 16QAM      | 1       | 0         | 17.77                 | 17.75                     | 17.79                      | 17.84                  | 17.82               |          |   |  |  |  |
| 5                 | 16QAM      | 1       | 12        | 17.66                 | 17.76                     | 17.66                      | 17.67                  | 17.83               |          |   |  |  |  |
| 5                 | 16QAM      | 1       | 24        | 17.81                 | 17.77                     | 17.86                      | 17.83                  | 17.81               |          |   |  |  |  |
| 5                 | 16QAM      | 12      | 0         | 17.75                 | 17.26                     | 17.57                      | 17.62                  | 17.63               | 18.5     | 0 |  |  |  |
| 5                 | 16QAM      | 12      | 7         | 17.78                 | 17.72                     | 17.80                      | 17.83                  | 17.82               |          |   |  |  |  |
| 5                 | 16QAM      | 12      | 13        | 17.75                 | 17.68                     | 17.78                      | 17.80                  | 17.80               |          |   |  |  |  |
| 5                 | 64QAM      | 1       | 0         | 17.67                 | 17.63                     | 17.65                      | 17.66                  | 17.84               |          |   |  |  |  |
| 5                 | 64QAM      | 1       | 12        | 17.53                 | 17.51                     | 17.63                      | 17.64                  | 17.63               |          |   |  |  |  |
| 5                 | 64QAM      | 1       | 24        | 17.66                 | 17.61                     | 17.66                      | 17.54                  | 17.57               | 18.5     | 0 |  |  |  |
| 5                 | 64QAM      | 12      | 0         | 17.73                 | 17.67                     | 17.78                      | 17.78                  | 17.81               |          |   |  |  |  |
| 5                 | 64QAM      | 12      | 7         | 17.76                 | 17.71                     | 17.80                      | 17.85                  | 17.83               |          |   |  |  |  |
| 5                 | 64QAM      | 12      | 13        | 17.72                 | 17.68                     | 17.77                      | 17.80                  | 17.79               |          |   |  |  |  |
| 5                 | 64QAM      | 25      | 0         | 17.70                 | 17.70                     | 17.76                      | 17.81                  | 17.78               |          |   |  |  |  |

| Band 41-Hotspot |            |         |           |                       |                           |                            |                        |                     |                     |          |                     |
|-----------------|------------|---------|-----------|-----------------------|---------------------------|----------------------------|------------------------|---------------------|---------------------|----------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power Mid-High Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB)            |          |                     |
| Channel         |            |         |           | 39750                 | 40185                     | 40620                      | 41055                  | 41490               |                     |          |                     |
| Frequency (MHz) |            |         |           |                       |                           |                            |                        |                     |                     |          |                     |
| 20              | QPSK       | 1       | 0         | 14.93                 | 14.88                     | 14.98                      | 15.01                  | 14.91               | 16                  | 0        |                     |
| 20              | QPSK       | 1       | 49        | 14.92                 | 14.83                     | 14.86                      | 14.85                  | 14.86               |                     |          |                     |
| 20              | QPSK       | 1       | 99        | 14.85                 | 14.85                     | 14.82                      | 14.86                  | 14.82               |                     |          |                     |
| 20              | QPSK       | 50      | 0         | 14.92                 | 14.82                     | 15.04                      | 14.92                  | 14.80               |                     |          |                     |
| 20              | QPSK       | 50      | 24        | 14.79                 | 14.91                     | 15.01                      | 14.86                  | 14.98               |                     |          |                     |
| 20              | QPSK       | 50      | 50        | 14.80                 | 14.83                     | 14.92                      | 14.72                  | 14.98               | 16                  | 0        |                     |
| 20              | QPSK       | 100     | 0         | 14.97                 | 14.79                     | 14.96                      | 14.86                  | 14.93               |                     |          |                     |
| 20              | 16QAM      | 1       | 0         | 14.90                 | 14.47                     | 14.54                      | 14.40                  | 14.35               |                     |          |                     |
| 20              | 16QAM      | 1       | 49        | 14.53                 | 14.51                     | 14.58                      | 14.57                  | 14.57               |                     |          |                     |
| 20              | 16QAM      | 50      | 0         | 14.40                 | 14.43                     | 14.42                      | 14.60                  | 14.53               | 16                  | 0        |                     |
| 20              | 16QAM      | 50      | 24        | 14.58                 | 14.54                     | 14.53                      | 14.68                  | 14.68               |                     |          |                     |
| 20              | 16QAM      | 50      | 50        | 14.54                 | 14.45                     | 14.54                      | 14.63                  | 14.70               |                     |          |                     |
| 20              | 16QAM      | 100     | 0         | 14.50                 | 14.42                     | 14.54                      | 14.68                  | 14.62               |                     |          |                     |
| 20              | 64QAM      | 1       | 0         | 14.29                 | 14.20                     | 14.31                      | 14.34                  | 14.16               | 16                  | 0        |                     |
| 20              | 64QAM      | 50      | 0         | 14.25                 | 14.16                     | 14.25                      | 14.38                  | 14.38               |                     |          |                     |
| 20              | 64QAM      | 1       | 99        | 14.20                 | 14.29                     | 14.38                      | 14.34                  | 14.32               |                     |          |                     |
| 20              | 64QAM      | 50      | 0         | 14.22                 | 14.30                     | 14.30                      | 14.52                  | 14.46               |                     |          |                     |
| 20              | 64QAM      | 50      | 24        | 14.36                 | 14.49                     | 14.49                      | 14.63                  | 14.61               | 16                  | 0        |                     |
| 20              | 64QAM      | 50      | 50        | 14.50                 | 14.34                     | 14.52                      | 14.60                  | 14.62               |                     |          |                     |
| 20              | 64QAM      | 100     | 0         | 14.50                 | 14.46                     | 14.59                      | 14.66                  | 14.67               |                     |          |                     |
| Channel         |            |         |           | 39750                 | 40185                     | 40620                      | 41055                  | 41490               |                     |          | Turn-up limit (dBm) |
| Frequency (MHz) |            |         |           | 200.31                | 204.83                    | 209.35                     | 213.78                 | 218.2               | 16.0                | 0        |                     |
| 15              | QPSK       | 1       | 0         | 14.97                 | 14.68                     | 14.90                      | 14.72                  | 14.62               | 16                  | 0        |                     |
| 15              | QPSK       | 1       | 37        | 14.97                 | 14.81                     | 14.82                      | 14.80                  | 14.80               |                     |          |                     |
| 15              | QPSK       | 1       | 74        | 14.99                 | 14.62                     | 14.77                      | 14.69                  | 14.88               |                     |          |                     |
| 15              | QPSK       | 1       | 111       | 14.97                 | 14.68                     | 14.81                      | 14.73                  | 14.80               |                     |          |                     |
| 15              | QPSK       | 36      | 0         | 14.88                 | 14.94                     | 14.98                      | 14.96                  | 15.01               |                     |          |                     |
| 15              | QPSK       | 36      | 39        | 15.04                 | 14.80                     | 14.98                      | 14.77                  | 15.01               | 16                  | 0        |                     |
| 15              | QPSK       | 36      | 75        | 15.01                 | 14.86                     | 14.94                      | 14.83                  | 14.98               |                     |          |                     |
| 15              | 16QAM      | 1       | 0         | 14.62                 | 14.30                     | 14.40                      | 14.68                  | 14.37               |                     |          |                     |
| 15              | 16QAM      | 1       | 37        | 14.66                 | 14.52                     | 14.63                      | 14.64                  | 14.61               |                     |          |                     |
| 15              | 16QAM      | 1       | 74        | 14.63                 | 14.37                     | 14.37                      | 14.63                  | 14.60               |                     |          |                     |
| 15              | 16QAM      | 36      | 0         | 14.40                 | 14.41                     | 14.51                      | 14.58                  | 14.37               | 16                  | 0        |                     |
| 15              | 16QAM      | 36      | 20        | 14.58                 | 14.46                     | 14.56                      | 14.62                  | 14.46               |                     |          |                     |
| 15              | 16QAM      | 36      | 56        | 14.55                 | 14.44                     | 14.56                      | 14.59                  | 14.64               |                     |          |                     |
| 15              | 16QAM      | 75      | 0         | 14.59                 | 14.48                     | 14.57                      | 14.62                  | 14.57               |                     |          |                     |
| 15              | 64QAM      | 1       | 0         | 14.30                 | 14.06                     | 14.11                      | 14.22                  | 14.15               | 16                  | 0        |                     |
| 15              | 64QAM      | 1       | 37        | 14.40                 | 14.32                     | 14.34                      | 14.44                  | 14.41               |                     |          |                     |
| 15              | 64QAM      | 1       | 74        | 14.35                 | 14.11                     | 14.26                      | 14.19                  | 14.39               |                     |          |                     |
| 15              | 64QAM      | 36      | 0         | 14.27                 | 14.42                     | 14.42                      | 14.59                  | 14.67               |                     |          |                     |
| 15              | 64QAM      | 36      | 20        | 14.28                 | 14.33                     | 14.35                      | 14.63                  | 14.59               | 16                  | 0        |                     |
| 15              | 64QAM      | 36      | 56        | 14.53                 | 14.44                     | 14.58                      | 14.65                  | 14.68               |                     |          |                     |
| 15              | 64QAM      | 75      | 0         | 14.57                 | 14.48                     | 14.58                      | 14.63                  | 14.67               |                     |          |                     |
| Channel         |            |         |           | 39750                 | 40185                     | 40620                      | 41055                  | 41490               |                     |          | Turn-up limit (dBm) |
| Frequency (MHz) |            |         |           | 229.1                 | 232.67                    | 237.3                      | 241.85                 | 246.5               | 16.0                | 0        |                     |
| 10              | QPSK       | 1       | 0         | 14.94                 | 14.54                     | 14.65                      | 14.65                  | 14.61               | 16                  | 0        |                     |
| 10              | QPSK       | 1       | 25        | 15.01                 | 14.50                     | 14.60                      | 14.68                  | 14.93               |                     |          |                     |
| 10              | QPSK       | 1       | 49        | 14.90                 | 14.50                     | 14.67                      | 14.57                  | 14.67               |                     |          |                     |
| 10              | QPSK       | 1       | 74        | 14.92                 | 14.59                     | 14.66                      | 14.58                  | 14.69               |                     |          |                     |
| 10              | QPSK       | 25      | 12        | 14.90                 | 14.97                     | 15.01                      | 14.88                  | 14.95               |                     |          |                     |
| 10              | QPSK       | 25      | 25        | 15.00                 | 14.87                     | 14.92                      | 14.86                  | 14.95               | 16                  | 0        |                     |
| 10              | QPSK       | 25      | 50        | 15.00                 | 14.92                     | 14.96                      | 14.90                  | 14.97               |                     |          |                     |
| 10              | 16QAM      | 1       | 0         | 14.62                 | 14.30                     | 14.37                      | 14.44                  | 14.43               |                     |          |                     |
| 10              | 16QAM      | 1       | 25        | 14.60                 | 14.54                     | 14.62                      | 14.65                  | 14.69               |                     |          |                     |
| 10              | 16QAM      | 1       | 49        | 14.61                 | 14.50                     | 14.59                      | 14.59                  | 14.60               | 16                  | 0        |                     |
| 10              | 16QAM      | 25      | 0         | 14.65                 | 14.48                     | 14.49                      | 14.53                  | 14.64               |                     |          |                     |
| 10              | 16QAM      | 25      | 12        | 14.67                 | 14.59                     | 14.68                      | 14.71                  | 14.72               |                     |          |                     |
| 10              | 16QAM      | 25      | 49        | 14.63                 | 14.47                     | 14.56                      | 14.58                  | 14.54               |                     |          |                     |
| 10              | 16QAM      | 50      | 0         | 14.54                 | 14.63                     | 14.58                      | 14.65                  | 14.54               | 16                  | 0        |                     |
| 10              | 64QAM      | 1       | 0         | 14.44                 | 14.16                     | 14.16                      | 14.27                  | 14.29               |                     |          |                     |
| 10              | 64QAM      | 1       | 25        | 14.41                 | 14.33                     | 14.42                      | 14.49                  | 14.44               |                     |          |                     |
| 10              | 64QAM      | 1       | 49        | 14.43                 | 14.16                     | 14.24                      | 14.23                  | 14.23               |                     |          |                     |
| 10              | 64QAM      | 1       | 74        | 14.58                 | 14.33                     | 14.43                      | 14.37                  | 14.50               | 16                  | 0        |                     |
| 10              | 64QAM      | 25      | 12        | 14.61                 | 14.56                     | 14.64                      | 14.69                  | 14.64               |                     |          |                     |
| 10              | 64QAM      | 25      | 25        | 14.60                 | 14.49                     | 14.51                      | 14.69                  | 14.64               |                     |          |                     |
| 10              | 64QAM      | 50      | 0         | 14.47                 | 14.47                     | 14.47                      | 14.60                  | 14.60               |                     |          |                     |
| Channel         |            |         |           | 39878                 | 40148                     | 40620                      | 41059                  | 41660               | Turn-up limit (dBm) | MPR (dB) |                     |
| Frequency (MHz) |            |         |           | 240.0                 | 243.81                    | 248.15                     | 252.49                 | 256.83              | 16.0                | 0        |                     |
| 5               | QPSK       | 1       | 0         | 14.90                 | 14.81                     | 14.81                      | 14.81                  | 14.90               | 16                  | 0        |                     |
| 5               | QPSK       | 1       | 12        | 14.92                 | 14.84                     | 14.85                      | 14.84                  | 14.84               |                     |          |                     |
| 5               | QPSK       | 1       | 24        | 14.93                 | 14.80                     | 14.81                      | 14.70                  | 14.94               |                     |          |                     |
| 5               | QPSK       | 12      | 0         | 14.90                 | 14.97                     | 14.99                      | 14.99                  | 14.99               |                     |          |                     |
| 5               | QPSK       | 12      | 7         | 14.96                 | 14.99                     | 14.92                      | 14.96                  | 15.02               |                     |          |                     |
| 5               | QPSK       | 12      | 13        | 14.97                 | 14.88                     | 14.97                      | 14.94                  | 15.03               | 16                  | 0        |                     |
| 5               | QPSK       | 12      | 19        | 15.07                 | 14.96                     | 15.01                      | 14.96                  | 15.02               |                     |          |                     |
| 5               | 16QAM      | 1       | 0         | 14.63                 | 14.33                     | 14.33                      | 14.60                  | 14.60               |                     |          |                     |
| 5               | 16QAM      | 1       | 12        | 14.68                 | 14.36                     | 14.37                      | 14.65                  | 14.67               |                     |          |                     |
| 5               | 16QAM      | 1       | 24        | 14.65                 | 14.97                     | 14.92                      | 14.93                  | 14.63               | 16                  | 0        |                     |
| 5               | 16QAM      | 12      | 0         | 14.61                 | 14.51                     | 14.57                      | 14.63                  | 14.64               |                     |          |                     |
| 5               | 16QAM      | 12      | 12        | 14.61                 | 14.52                     | 14.52                      | 14.62                  | 14.63               |                     |          |                     |
| 5               | 16QAM      | 12      | 13        | 14.69                 | 14.54                     | 14.55                      | 14.64                  | 14.67               |                     |          |                     |
| 5               | 16QAM      | 25      | 0         | 14.60                 | 14.58                     | 14.63                      | 14.70                  | 14.68               | 16                  | 0        |                     |
| 5               | 64QAM      | 1       | 0         | 14.43                 | 14.33                     | 14.33                      | 14.44                  | 14.44               |                     |          |                     |
| 5               | 64QAM      | 1       | 12        | 14.40                 | 14.40                     | 14.42                      | 14.44                  | 14.44               |                     |          |                     |
| 5               | 64QAM      | 1       | 24        | 14.59                 | 14.31                     | 14.37                      | 14.36                  | 14.37               |                     |          |                     |
| 5               | 64QAM      | 12      | 0         | 14.58                 | 14.51                     | 14.58                      | 14.62                  | 14.63               | 16                  | 0        |                     |
| 5               | 64QAM      | 12      | 7         | 14.59                 | 14.57                     | 14.63                      | 14.68                  | 14.68               |                     |          |                     |
| 5               | 64QAM      | 12      | 13        | 14.62                 | 14.53                     | 14.54                      | 14.63                  | 14.62               |                     |          |                     |
| 5               | 64QAM      | 12      | 19        | 14.55                 | 14.48                     | 14.55                      | 14.65                  | 14.61               |                     |          |                     |



Band 41 HPUE -Body Worn

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Low Meds Ch./Freq. | Power Low Hgh Meds Ch./Freq. | Power High Ch./Freq. | Turn-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|--------------------------|------------------------------|----------------------|---------------------|----------|
| Channel         |            |         |           |                     |                          |                              |                      |                     |          |
| Frequency (MHz) |            |         |           |                     |                          |                              |                      |                     |          |
| 20              | QPSK       | 1       | 0         | 17.77               | 17.67                    | 17.78                        | 17.68                | 17.71               |          |
| 20              | QPSK       | 1       | 49        | 17.78               | 17.72                    | 17.60                        | 17.76                | 17.72               | 18.5     |
| 20              | QPSK       | 1       | 99        | 17.45               | 17.76                    | 17.84                        | 17.35                | 17.68               |          |
| 20              | QPSK       | 50      | 0         | 17.69               | 17.66                    | 17.74                        | 17.65                | 17.70               |          |
| 20              | QPSK       | 50      | 24        | 17.71               | 17.61                    | 17.71                        | 17.71                | 17.63               | 18.5     |
| 20              | QPSK       | 50      | 99        | 17.63               | 17.55                    | 17.63                        | 17.47                | 17.59               |          |
| 20              | QPSK       | 100     | 0         | 17.33               | 17.16                    | 17.65                        | 17.28                | 17.26               |          |
| 20              | 16QAM      | 1       | 0         | 17.51               | 17.26                    | 17.71                        | 17.29                | 17.44               |          |
| 20              | 16QAM      | 1       | 49        | 17.52               | 17.48                    | 17.25                        | 17.51                | 17.48               | 18.5     |
| 20              | 16QAM      | 1       | 99        | 17.51               | 17.52                    | 17.27                        | 17.44                | 17.41               |          |
| 20              | 16QAM      | 50      | 0         | 17.32               | 17.25                    | 17.35                        | 17.32                | 17.27               |          |
| 20              | 16QAM      | 50      | 24        | 17.40               | 17.34                    | 17.40                        | 17.40                | 17.34               | 18.5     |
| 20              | 16QAM      | 50      | 99        | 17.36               | 17.25                    | 17.37                        | 17.21                | 17.37               |          |
| 20              | 64QAM      | 1       | 0         | 17.33               | 17.41                    | 17.17                        | 17.13                | 17.34               |          |
| 20              | 64QAM      | 1       | 49        | 17.44               | 17.49                    | 17.43                        | 17.37                | 17.44               | 18.5     |
| 20              | 64QAM      | 1       | 99        | 17.45               | 17.36                    | 17.13                        | 17.24                | 17.37               |          |
| 20              | 64QAM      | 50      | 0         | 17.22               | 17.15                    | 17.11                        | 17.28                | 17.13               |          |
| 20              | 64QAM      | 50      | 24        | 17.32               | 17.28                    | 17.34                        | 17.26                | 17.33               | 18.5     |
| 20              | 64QAM      | 50      | 99        | 17.27               | 17.15                    | 17.30                        | 17.11                | 17.30               |          |
| 20              | 64QAM      | 100     | 0         | 17.37               | 17.28                    | 17.31                        | 17.34                | 17.32               |          |
| Channel         |            |         |           |                     |                          |                              |                      |                     |          |
| Frequency (MHz) |            |         |           |                     |                          |                              |                      |                     |          |
| 15              | QPSK       | 1       | 0         | 2503.1              | 2504.3                   | 2505.3                       | 2503.8               | 2502.5              |          |
| 15              | QPSK       | 1       | 37        | 17.25               | 16.98                    | 17.60                        | 17.10                | 16.93               | 18.5     |
| 15              | QPSK       | 1       | 74        | 17.29               | 17.08                    | 17.33                        | 17.00                | 17.14               |          |
| 15              | QPSK       | 36      | 0         | 17.31               | 17.26                    | 17.26                        | 17.34                | 17.12               |          |
| 15              | QPSK       | 36      | 20        | 17.40               | 17.29                    | 17.30                        | 17.36                | 17.29               | 18.5     |
| 15              | QPSK       | 36      | 39        | 17.35               | 17.21                    | 17.34                        | 17.28                | 17.19               |          |
| 15              | QPSK       | 75      | 0         | 17.27               | 17.24                    | 17.27                        | 17.31                | 17.23               |          |
| 15              | 16QAM      | 1       | 0         | 17.33               | 17.24                    | 17.25                        | 17.31                | 17.23               |          |
| 15              | 16QAM      | 1       | 37        | 17.47               | 17.46                    | 17.52                        | 17.51                | 17.47               | 18.5     |
| 15              | 16QAM      | 1       | 74        | 17.44               | 17.34                    | 17.35                        | 17.41                | 17.33               |          |
| 15              | 16QAM      | 36      | 0         | 17.27               | 17.19                    | 17.20                        | 17.31                | 17.20               |          |
| 15              | 16QAM      | 36      | 20        | 17.35               | 17.27                    | 17.34                        | 17.35                | 17.23               | 18.5     |
| 15              | 16QAM      | 36      | 39        | 17.32               | 17.23                    | 17.30                        | 17.25                | 17.21               |          |
| 15              | 16QAM      | 75      | 0         | 17.34               | 17.23                    | 17.32                        | 17.32                | 17.20               |          |
| 15              | 64QAM      | 1       | 0         | 17.40               | 17.19                    | 17.16                        | 17.27                | 17.10               | 18.5     |
| 15              | 64QAM      | 1       | 37        | 17.35               | 17.25                    | 17.42                        | 17.41                | 17.37               |          |
| 15              | 64QAM      | 1       | 74        | 17.29               | 17.16                    | 17.30                        | 17.12                | 17.34               |          |
| 15              | 64QAM      | 36      | 0         | 17.27               | 17.24                    | 17.27                        | 17.31                | 17.13               |          |
| 15              | 64QAM      | 36      | 20        | 17.37               | 17.29                    | 17.35                        | 17.37                | 17.25               | 18.5     |
| 15              | 64QAM      | 36      | 39        | 17.38               | 17.23                    | 17.38                        | 17.30                | 17.33               |          |
| 15              | 64QAM      | 75      | 0         | 17.33               | 17.23                    | 17.30                        | 17.25                | 17.23               |          |
| Channel         |            |         |           |                     |                          |                              |                      |                     |          |
| Frequency (MHz) |            |         |           |                     |                          |                              |                      |                     |          |
| 10              | QPSK       | 1       | 0         | 22.73               | 22.47                    | 22.93                        | 22.33                | 22.65               |          |
| 10              | QPSK       | 1       | 25        | 17.11               | 17.10                    | 17.16                        | 17.16                | 17.10               | 18.5     |
| 10              | QPSK       | 1       | 49        | 17.23               | 16.84                    | 16.97                        | 16.87                | 16.85               |          |
| 10              | QPSK       | 25      | 0         | 17.37               | 17.20                    | 17.33                        | 17.34                | 17.18               |          |
| 10              | QPSK       | 25      | 12        | 17.40               | 17.36                    | 17.41                        | 17.41                | 17.39               |          |
| 10              | QPSK       | 25      | 25        | 17.38               | 17.23                    | 17.35                        | 17.30                | 17.22               | 18.5     |
| 10              | QPSK       | 50      | 0         | 17.34               | 17.29                    | 17.35                        | 17.32                | 17.15               |          |
| 10              | 16QAM      | 1       | 0         | 17.59               | 17.29                    | 17.29                        | 17.37                | 17.25               |          |
| 10              | 16QAM      | 1       | 25        | 17.52               | 17.28                    | 17.49                        | 17.52                | 17.47               | 18.5     |
| 10              | 16QAM      | 1       | 49        | 17.54               | 17.27                    | 17.34                        | 17.27                | 17.24               |          |
| 10              | 16QAM      | 25      | 0         | 17.44               | 17.25                    | 17.31                        | 17.37                | 17.17               |          |
| 10              | 16QAM      | 25      | 12        | 17.42               | 17.37                    | 17.44                        | 17.43                | 17.36               | 18.5     |
| 10              | 16QAM      | 25      | 25        | 17.44               | 17.26                    | 17.31                        | 17.32                | 17.25               |          |
| 10              | 16QAM      | 50      | 0         | 17.34               | 17.31                    | 17.31                        | 17.37                | 17.20               |          |
| 10              | 64QAM      | 1       | 0         | 17.68               | 17.29                    | 17.23                        | 17.29                | 17.21               |          |
| 10              | 64QAM      | 1       | 25        | 17.52               | 17.45                    | 17.56                        | 17.48                | 17.42               | 18.5     |
| 10              | 64QAM      | 1       | 49        | 17.56               | 17.22                    | 17.25                        | 17.27                | 17.23               |          |
| 10              | 64QAM      | 25      | 0         | 17.36               | 17.24                    | 17.29                        | 17.33                | 17.18               |          |
| 10              | 64QAM      | 25      | 12        | 17.37               | 17.34                    | 17.39                        | 17.37                | 17.34               | 18.5     |
| 10              | 64QAM      | 25      | 25        | 17.37               | 17.26                    | 17.33                        | 17.33                | 17.22               |          |
| 10              | 64QAM      | 50      | 0         | 17.27               | 17.25                    | 17.25                        | 17.30                | 17.16               |          |
| Channel         |            |         |           |                     |                          |                              |                      |                     |          |
| Frequency (MHz) |            |         |           |                     |                          |                              |                      |                     |          |
| 5               | QPSK       | 1       | 0         | 16.91               | 16.80                    | 16.74                        | 16.78                | 16.68               |          |
| 5               | QPSK       | 1       | 12        | 16.88               | 16.83                    | 16.82                        | 16.78                | 16.67               | 18.5     |
| 5               | QPSK       | 1       | 24        | 16.87               | 16.75                    | 16.75                        | 16.68                | 16.62               |          |
| 5               | QPSK       | 12      | 0         | 17.07               | 16.98                    | 17.01                        | 16.97                | 16.88               |          |
| 5               | QPSK       | 12      | 7         | 17.10               | 17.01                    | 17.04                        | 17.00                | 16.90               | 18.5     |
| 5               | QPSK       | 12      | 13        | 17.06               | 16.98                    | 17.01                        | 16.95                | 16.87               |          |
| 5               | QPSK       | 25      | 0         | 17.04               | 17.00                    | 16.99                        | 16.93                | 16.89               |          |
| 5               | 16QAM      | 1       | 0         | 17.24               | 17.15                    | 17.08                        | 17.11                | 17.03               | 18.5     |
| 5               | 16QAM      | 1       | 12        | 17.20               | 17.15                    | 17.14                        | 17.09                | 17.03               |          |
| 5               | 16QAM      | 1       | 24        | 17.25               | 17.16                    | 17.14                        | 17.06                | 16.99               |          |
| 5               | 16QAM      | 12      | 0         | 17.10               | 17.04                    | 17.05                        | 16.99                | 16.91               | 18.5     |
| 5               | 16QAM      | 12      | 7         | 17.11               | 17.02                    | 17.02                        | 16.98                | 16.91               |          |
| 5               | 16QAM      | 12      | 13        | 17.07               | 16.97                    | 17.00                        | 16.93                | 16.85               |          |
| 5               | 64QAM      | 1       | 0         | 17.08               | 17.05                    | 17.05                        | 17.00                | 16.92               |          |
| 5               | 64QAM      | 1       | 12        | 17.13               | 17.03                    | 17.03                        | 16.99                | 16.92               | 18.5     |
| 5               | 64QAM      | 1       | 24        | 17.07               | 17.05                    | 17.07                        | 17.04                | 16.94               |          |
| 5               | 64QAM      | 12      | 0         | 17.14               | 17.04                    | 17.05                        | 16.97                | 16.92               |          |
| 5               | 64QAM      | 12      | 7         | 17.05               | 16.98                    | 16.98                        | 16.94                | 16.86               | 18.5     |
| 5               | 64QAM      | 12      | 13        | 17.08               | 17.00                    | 17.03                        | 16.97                | 16.88               |          |
| 5               | 64QAM      | 25      | 0         | 17.01               | 16.99                    | 16.99                        | 16.94                | 16.84               |          |

Band 41 HPUE -Hotspot

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./ Freq. | Power Low Meds Ch./ Freq. | Power Low Hgh Meds Ch./ Freq. | Power High Ch./ Freq. | Turn-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|----------------------|---------------------------|-------------------------------|-----------------------|---------------------|----------|
| Channel         |            |         |           |                      |                           |                               |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                           |                               |                       |                     |          |
| 20              | QPSK       | 1       | 0         | 14.92                | 14.95                     | 15.07                         | 15.01                 | 14.96               |          |
| 20              | QPSK       | 1       | 49        | 15.00                | 14.97                     | 15.01                         | 15.01                 | 15.05               | 16       |
| 20              | QPSK       | 1       | 99        | 14.87                | 15.00                     | 14.76                         | 14.95                 | 14.94               |          |
| 20              | QPSK       | 50      | 0         | 14.87                | 14.93                     | 15.05                         | 14.89                 | 14.90               |          |
| 20              | QPSK       | 50      | 24        | 15.02                | 14.92                     | 14.92                         | 14.92                 | 14.95               | 16       |
| 20              | QPSK       | 50      | 99        | 14.93                | 14.76                     | 14.86                         | 14.83                 | 14.93               |          |
| 20              | QPSK       | 100     | 0         | 14.89                | 14.74                     | 14.95                         | 14.80                 | 14.84               |          |
| 20              | 16QAM      | 1       | 0         | 14.67                | 14.54                     | 14.52                         | 14.43                 | 14.52               |          |
| 20              | 16QAM      | 1       | 49        | 14.05                | 14.60                     | 14.64                         | 14.05                 | 14.73               | 16       |
| 20              | 16QAM      | 1       | 99        | 14.63                | 14.63                     | 14.44                         | 14.29                 | 14.61               |          |
| 20              | 16QAM      | 50      | 0         | 14.64                | 14.41                     | 14.38                         | 14.25                 | 14.65               |          |
| 20              | 16QAM      | 50      | 24        | 14.55                | 14.47                     | 14.55                         | 14.40                 | 14.59               | 16       |
| 20              | 16QAM      | 50      | 99        | 14.53                | 14.39                     | 14.57                         | 14.40                 | 14.61               |          |
| 20              | 16QAM      | 100     | 0         | 14.43                | 14.34                     | 14.47                         | 14.53                 | 14.54               |          |
| 20              | 64QAM      | 1       | 0         | 14.48                | 14.40                     | 14.15                         | 14.32                 | 14.15               |          |
| 20              | 64QAM      | 1       | 49        | 14.51                | 14.44                     | 14.40                         | 14.35                 | 14.39               | 16       |
| 20              | 64QAM      | 1       | 99        | 14.47                | 14.46                     | 14.30                         | 14.11                 | 14.48               |          |
| 20              | 64QAM      | 50      | 0         | 14.57                | 14.30                     | 14.30                         | 14.48                 | 14.39               |          |
| 20              | 64QAM      | 50      | 24        | 14.48                | 14.41                     | 14.52                         | 14.50                 | 14.50               | 16       |
| 20              | 64QAM      | 50      | 99        | 14.44                | 14.32                     | 14.48                         | 14.35                 | 14.54               |          |
| 20              | 64QAM      | 100     | 0         | 14.50                | 14.38                     | 14.51                         | 14.55                 | 14.58               |          |
| Channel         |            |         |           |                      |                           |                               |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                           |                               |                       |                     |          |
| 15              | QPSK       | 1       | 0         | 14.88                | 14.58                     | 14.54                         | 14.65                 | 14.51               |          |
| 15              | QPSK       | 1       | 37        | 14.80                | 14.76                     | 14.80                         | 14.77                 | 14.81               | 16       |
| 15              | QPSK       | 1       | 74        | 14.90                | 14.57                     | 14.75                         | 14.63                 | 14.82               |          |
| 15              | QPSK       | 36      | 0         | 14.88                | 14.78                     | 14.72                         | 14.87                 | 14.75               |          |
| 15              | QPSK       | 36      | 20        | 14.86                | 14.86                     | 14.37                         | 14.87                 | 14.86               | 16       |
| 15              | QPSK       | 36      | 39        | 14.94                | 14.80                     | 14.90                         | 14.71                 | 14.95               |          |
| 15              | QPSK       | 75      | 0         | 14.92                | 14.85                     | 14.86                         | 14.87                 | 14.89               |          |
| 15              | 16QAM      | 1       | 0         | 14.71                | 14.43                     | 14.47                         | 14.64                 | 14.50               |          |
| 15              | 16QAM      | 1       | 37        | 14.62                | 14.37                     | 14.66                         | 14.71                 | 14.73               | 16       |
| 15              | 16QAM      | 1       | 74        | 14.68                | 14.36                     | 14.51                         | 14.52                 | 14.49               |          |
| 15              | 16QAM      | 36      | 0         | 14.42                | 14.39                     | 14.43                         | 14.53                 | 14.39               |          |
| 15              | 16QAM      | 36      | 20        | 14.52                | 14.45                     | 14.59                         | 14.59                 | 14.49               | 16       |
| 15              | 16QAM      | 36      | 39        | 14.50                | 14.48                     | 14.37                         | 14.52                 | 14.49               |          |
| 15              | 16QAM      | 75      | 0         | 14.52                | 14.42                     | 14.51                         | 14.58                 | 14.46               |          |
| 15              | 64QAM      | 1       | 0         | 14.50                | 14.25                     | 14.28                         | 14.52                 | 14.32               | 16       |
| 15              | 64QAM      | 1       | 37        | 14.50                | 14.49                     | 14.55                         | 14.58                 | 14.58               |          |
| 15              | 64QAM      | 1       | 74        | 14.56                | 14.29                     | 14.45                         | 14.51                 | 14.57               |          |
| 15              | 64QAM      | 36      | 0         | 14.46                | 14.36                     | 14.40                         | 14.49                 | 14.46               |          |
| 15              | 64QAM      | 36      | 20        | 14.52                | 14.46                     | 14.51                         | 14.51                 | 14.55               | 16       |
| 15              | 64QAM      | 36      | 39        | 14.40                | 14.40                     | 14.54                         | 14.53                 | 14.62               |          |
| 15              | 64QAM      | 75      | 0         | 14.51                | 14.39                     | 14.53                         | 14.53                 | 14.49               |          |
| Channel         |            |         |           |                      |                           |                               |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                           |                               |                       |                     |          |
| 10              | QPSK       | 1       | 0         | 14.68                | 14.47                     | 14.47                         | 14.65                 | 14.45               |          |
| 10              | QPSK       | 1       | 25        | 14.81                | 14.71                     | 14.71                         | 14.69                 | 14.77               | 16       |
| 10              | QPSK       | 1       | 49        | 14.84                | 14.50                     | 14.54                         | 14.48                 | 14.56               |          |
| 10              | QPSK       | 1       | 74        | 14.94                | 14.46                     | 14.50                         | 14.44                 | 14.52               |          |
| 10              | QPSK       | 25      | 12        | 15.04                | 14.36                     | 14.36                         | 14.38                 | 14.93               | 16       |
| 10              | QPSK       | 25      | 25        | 15.02                | 14.86                     | 14.89                         | 14.80                 | 14.90               |          |
| 10              | QPSK       | 25      | 49        | 14.99                | 14.89                     | 14.89                         | 14.80                 | 14.94               |          |
| 10              | 16QAM      | 1       | 0         | 14.80                | 14.46                     | 14.51                         | 14.58                 | 14.58               |          |
| 10              | 16QAM      | 1       | 25        | 14.72                | 14.66                     | 14.76                         | 14.79                 | 14.76               | 16       |
| 10              | 16QAM      | 1       | 49        | 14.74                | 14.44                     | 14.44                         | 14.37                 | 14.54               |          |
| 10              | 16QAM      | 25      | 0         | 14.59                | 14.46                     | 14.52                         | 14.59                 | 14.65               |          |
| 10              | 16QAM      | 25      | 12        | 14.80                | 14.59                     | 14.82                         | 14.69                 | 14.85               |          |
| 10              | 16QAM      | 25      | 25        | 14.82                | 14.42                     | 14.82                         | 14.69                 | 14.98               | 16       |
| 10              | 16QAM      | 25      | 49        | 14.80                | 14.46                     | 14.85                         | 14.69                 | 14.90               |          |
| 10              | 64QAM      | 1       | 0         | 14.69                | 14.44                     | 14.44                         | 14.49                 | 14.49               |          |
| 10              | 64QAM      | 1       | 25        | 14.68                | 14.51                     | 14.64                         | 14.74                 | 14.70               | 16       |
| 10              | 64QAM      | 1       | 49        | 14.71                | 14.44                     | 14.56                         | 14.48                 | 14.61               |          |
| 10              | 64QAM      | 25      | 0         | 14.63                | 14.39                     | 14.45                         | 14.51                 | 14.60               |          |
| 10              | 64QAM      | 25      | 12        | 14.56                | 14.53                     | 14.59                         | 14.68                 | 14.61               | 16       |
| 10              | 64QAM      | 25      | 25        | 14.60                | 14.46                     | 14.45                         | 14.51                 | 14.63               |          |
| 10              | 64QAM      | 25      | 49        | 14.43                | 14.45                     | 14.53                         | 14.53                 | 14.63               |          |
| Channel         |            |         |           |                      |                           |                               |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                           |                               |                       |                     |          |
| 5               | QPSK       | 1       | 0         | 14.90                | 14.75                     | 14.72                         | 14.92                 | 14.77               |          |
| 5               | QPSK       | 1       | 12        | 14.85                | 14.75                     | 14.75                         | 14.75                 | 14.77               | 16       |
| 5               | QPSK       | 1       | 24        | 14.87                | 14.75                     | 14.75                         | 14.75                 | 14.76               |          |
| 5               | QPSK       | 12      | 0         | 15.03                | 14.93                     | 14.98                         | 14.91                 | 15.04               |          |
| 5               | QPSK       | 12      | 12        | 14.83                | 15.00                     | 15.03                         | 14.97                 | 15.06               | 16       |
| 5               | QPSK       | 12      | 24        | 14.89                | 14.93                     | 14.93                         | 14.93                 | 14.94               |          |
| 5               | 16QAM      | 1       | 0         | 14.74                | 14.67                     | 14.67                         | 14.79                 | 14.76               |          |
| 5               | 16QAM      | 1       | 12        | 14.77                | 14.72                     | 14.72                         | 14.77                 | 14.77               | 16       |
| 5               | 16QAM      | 1       | 24        | 14.80                | 14.66                     | 14.74                         | 14.74                 | 14.76               |          |
| 5               | 16QAM      | 12      | 0         | 14.60                | 14.59                     | 14.68                         | 14.67                 | 14.64               |          |
| 5               | 16QAM      | 12      | 12        | 14.67                | 14.55                     | 14.67                         | 14.67                 | 14.68               | 16       |
| 5               | 16QAM      | 12      | 24        | 14.62                | 14.50                     | 14.62                         | 14.63                 | 14.64               |          |
| 5               | 64QAM      | 1       | 0         | 14.56                | 14.56                     | 14.64                         | 14.67                 | 14.64               |          |
| 5               | 64QAM      | 1       | 12        | 14.63                | 14.59                     | 14.63                         | 14.63                 | 14.65               | 16       |
| 5               | 64QAM      | 1       | 24        | 14.66                | 14.56                     | 14.66                         | 14.66                 | 14.67               |          |
| 5               | 64QAM      | 12      | 0         | 14.54                | 14.51                     | 14.61                         | 14.61                 | 14.58               |          |
| 5               | 64QAM      | 12      | 12        | 14.63                | 14.57                     | 14.65                         | 14.64                 | 14.67               |          |
| 5               | 64QAM      | 12      | 24        | 14.60                | 14.54                     | 14.62                         | 14.60                 | 14.63               | 16       |
| 5               | 64QAM      | 25      | 0         | 14.40                | 14.48                     | 14.57                         | 14.61                 | 14.57               |          |

## Reduced Power Mode for Sensor On (EN-DC)

| Band 2 (1900MHz Band)<br>Part 24E |            |         |           |                          |                             |                           |                           |             |  |  |
|-----------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1860                     | 1880                        | 1900                      |                           |             |  |  |
| 20                                | QPSK       | 1       | 0         | 12.56                    | 12.61                       | 12.47                     | 13.5                      | 0           |  |  |
| 20                                | QPSK       | 1       | 49        | 12.33                    | 12.46                       | 12.40                     |                           |             |  |  |
| 20                                | QPSK       | 1       | 99        | 12.31                    | 12.35                       | 12.24                     |                           |             |  |  |
| 20                                | QPSK       | 50      | 0         | 12.46                    | 12.58                       | 12.43                     | 13.5                      | 0           |  |  |
| 20                                | QPSK       | 50      | 24        | 12.31                    | 12.13                       | 12.55                     |                           |             |  |  |
| 20                                | QPSK       | 50      | 50        | 12.47                    | 12.55                       | 12.45                     |                           |             |  |  |
| 20                                | QPSK       | 100     | 0         | 12.50                    | 12.51                       | 12.45                     | 13.5                      | 0           |  |  |
| 20                                | 16QAM      | 1       | 0         | 12.13                    | 12.53                       | 12.45                     |                           |             |  |  |
| 20                                | 16QAM      | 1       | 49        | 12.36                    | 12.55                       | 12.49                     |                           |             |  |  |
| 20                                | 16QAM      | 1       | 99        | 12.29                    | 12.45                       | 12.29                     | 13.5                      | 0           |  |  |
| 20                                | 16QAM      | 50      | 0         | 12.15                    | 12.19                       | 12.13                     |                           |             |  |  |
| 20                                | 16QAM      | 50      | 24        | 12.25                    | 12.27                       | 12.31                     |                           |             |  |  |
| 20                                | 16QAM      | 50      | 50        | 12.16                    | 12.30                       | 12.17                     | 13.5                      | 0           |  |  |
| 20                                | 16QAM      | 100     | 0         | 12.19                    | 12.19                       | 12.14                     |                           |             |  |  |
| 20                                | 64QAM      | 1       | 0         | 12.47                    | 12.30                       | 12.40                     |                           |             |  |  |
| 20                                | 64QAM      | 1       | 49        | 12.30                    | 12.30                       | 12.17                     | 13.5                      | 0           |  |  |
| 20                                | 64QAM      | 1       | 99        | 12.16                    | 12.36                       | 12.13                     |                           |             |  |  |
| 20                                | 64QAM      | 50      | 0         | 12.14                    | 12.22                       | 12.18                     |                           |             |  |  |
| 20                                | 64QAM      | 50      | 24        | 12.21                    | 12.27                       | 12.28                     | 13.5                      | 0           |  |  |
| 20                                | 64QAM      | 50      | 50        | 12.15                    | 12.26                       | 12.19                     |                           |             |  |  |
| 20                                | 64QAM      | 100     | 0         | 12.19                    | 12.20                       | 12.14                     |                           |             |  |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 18675                    | 18900                       | 19150                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 15                                | QPSK       | 1       | 0         | 12.11                    | 12.17                       | 12.20                     | 13.5                      | 0           |  |  |
| 15                                | QPSK       | 1       | 37        | 12.12                    | 12.19                       | 12.13                     |                           |             |  |  |
| 15                                | QPSK       | 1       | 74        | 12.01                    | 12.14                       | 11.98                     |                           |             |  |  |
| 15                                | QPSK       | 36      | 0         | 12.18                    | 12.17                       | 12.13                     | 13.5                      | 0           |  |  |
| 15                                | QPSK       | 36      | 20        | 12.26                    | 12.24                       | 12.18                     |                           |             |  |  |
| 15                                | QPSK       | 36      | 39        | 12.19                    | 12.31                       | 12.21                     |                           |             |  |  |
| 15                                | QPSK       | 75      | 0         | 12.21                    | 12.19                       | 12.13                     | 13.5                      | 0           |  |  |
| 15                                | 16QAM      | 1       | 0         | 12.42                    | 12.50                       | 12.50                     |                           |             |  |  |
| 15                                | 16QAM      | 1       | 37        | 12.42                    | 12.46                       | 12.44                     |                           |             |  |  |
| 15                                | 16QAM      | 1       | 74        | 12.27                    | 12.50                       | 12.27                     | 13.5                      | 0           |  |  |
| 15                                | 16QAM      | 36      | 0         | 12.15                    | 12.22                       | 12.16                     |                           |             |  |  |
| 15                                | 16QAM      | 36      | 20        | 12.21                    | 12.25                       | 12.19                     |                           |             |  |  |
| 15                                | 16QAM      | 36      | 39        | 12.18                    | 12.29                       | 12.18                     | 13.5                      | 0           |  |  |
| 15                                | 16QAM      | 75      | 0         | 12.21                    | 12.22                       | 12.15                     |                           |             |  |  |
| 15                                | 64QAM      | 1       | 0         | 12.31                    | 12.36                       | 12.32                     |                           |             |  |  |
| 15                                | 64QAM      | 1       | 37        | 12.21                    | 12.35                       | 12.25                     | 13.5                      | 0           |  |  |
| 15                                | 64QAM      | 1       | 74        | 12.10                    | 12.33                       | 12.14                     |                           |             |  |  |
| 15                                | 64QAM      | 36      | 0         | 12.16                    | 12.21                       | 12.16                     |                           |             |  |  |
| 15                                | 64QAM      | 36      | 20        | 12.19                    | 12.25                       | 12.18                     | 13.5                      | 0           |  |  |
| 15                                | 64QAM      | 36      | 39        | 12.15                    | 12.35                       | 12.15                     |                           |             |  |  |
| 15                                | 64QAM      | 75      | 0         | 12.20                    | 12.21                       | 12.19                     |                           |             |  |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 18850                    | 18900                       | 19150                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 10                                | QPSK       | 1       | 0         | 11.94                    | 11.93                       | 12.23                     | 13.5                      | 0           |  |  |
| 10                                | QPSK       | 1       | 25        | 12.13                    | 12.20                       | 12.10                     |                           |             |  |  |
| 10                                | QPSK       | 1       | 49        | 11.79                    | 11.92                       | 11.98                     |                           |             |  |  |
| 10                                | QPSK       | 25      | 0         | 12.21                    | 12.19                       | 12.12                     | 13.5                      | 0           |  |  |
| 10                                | QPSK       | 25      | 12        | 12.26                    | 12.27                       | 12.21                     |                           |             |  |  |
| 10                                | QPSK       | 25      | 25        | 12.14                    | 12.26                       | 12.14                     |                           |             |  |  |
| 10                                | QPSK       | 50      | 0         | 12.19                    | 12.16                       | 12.10                     | 13.5                      | 0           |  |  |
| 10                                | 16QAM      | 1       | 0         | 12.37                    | 12.37                       | 12.45                     |                           |             |  |  |
| 10                                | 16QAM      | 1       | 25        | 12.37                    | 12.47                       | 12.36                     |                           |             |  |  |
| 10                                | 16QAM      | 1       | 49        | 12.20                    | 12.35                       | 12.43                     | 13.5                      | 0           |  |  |
| 10                                | 16QAM      | 25      | 0         | 12.29                    | 12.20                       | 12.09                     |                           |             |  |  |
| 10                                | 16QAM      | 25      | 12        | 12.30                    | 12.30                       | 12.19                     |                           |             |  |  |
| 10                                | 16QAM      | 25      | 25        | 12.17                    | 12.29                       | 12.16                     | 13.5                      | 0           |  |  |
| 10                                | 16QAM      | 50      | 0         | 12.22                    | 12.21                       | 12.07                     |                           |             |  |  |
| 10                                | 64QAM      | 1       | 0         | 12.38                    | 12.29                       | 12.42                     |                           |             |  |  |
| 10                                | 64QAM      | 1       | 25        | 12.44                    | 12.46                       | 12.45                     | 13.5                      | 0           |  |  |
| 10                                | 64QAM      | 1       | 49        | 12.23                    | 12.33                       | 12.40                     |                           |             |  |  |
| 10                                | 64QAM      | 25      | 0         | 12.33                    | 12.22                       | 12.11                     |                           |             |  |  |
| 10                                | 64QAM      | 25      | 12        | 12.33                    | 12.30                       | 12.20                     | 13.5                      | 0           |  |  |
| 10                                | 64QAM      | 25      | 25        | 12.19                    | 12.23                       | 12.11                     |                           |             |  |  |
| 10                                | 64QAM      | 50      | 0         | 12.23                    | 12.16                       | 12.08                     |                           |             |  |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 18825                    | 18900                       | 19175                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 5                                 | QPSK       | 1       | 0         | 12.23                    | 12.13                       | 12.11                     | 13.5                      | 0           |  |  |
| 5                                 | QPSK       | 1       | 12        | 12.08                    | 12.26                       | 12.12                     |                           |             |  |  |
| 5                                 | QPSK       | 1       | 24        | 12.05                    | 12.11                       | 11.93                     |                           |             |  |  |
| 5                                 | QPSK       | 12      | 0         | 12.35                    | 12.30                       | 12.23                     | 13.5                      | 0           |  |  |
| 5                                 | QPSK       | 12      | 7         | 12.33                    | 12.32                       | 12.23                     |                           |             |  |  |
| 5                                 | QPSK       | 12      | 13        | 12.20                    | 12.29                       | 12.09                     |                           |             |  |  |
| 5                                 | QPSK       | 25      | 0         | 12.32                    | 12.29                       | 12.17                     | 13.5                      | 0           |  |  |
| 5                                 | 16QAM      | 1       | 0         | 12.38                    | 12.44                       | 12.48                     |                           |             |  |  |
| 5                                 | 16QAM      | 1       | 12        | 12.33                    | 12.41                       | 12.47                     |                           |             |  |  |
| 5                                 | 16QAM      | 1       | 24        | 12.46                    | 12.43                       | 12.33                     | 13.5                      | 0           |  |  |
| 5                                 | 16QAM      | 12      | 0         | 12.39                    | 12.33                       | 12.22                     |                           |             |  |  |
| 5                                 | 16QAM      | 12      | 7         | 12.37                    | 12.35                       | 12.21                     |                           |             |  |  |
| 5                                 | 16QAM      | 12      | 13        | 12.24                    | 12.31                       | 12.10                     | 13.5                      | 0           |  |  |
| 5                                 | 16QAM      | 25      | 0         | 12.35                    | 12.31                       | 12.20                     |                           |             |  |  |
| 5                                 | 16QAM      | 1       | 0         | 12.48                    | 12.40                       | 12.33                     |                           |             |  |  |
| 5                                 | 64QAM      | 1       | 12        | 12.47                    | 12.31                       | 12.34                     | 13.5                      | 0           |  |  |
| 5                                 | 64QAM      | 1       | 24        | 12.32                    | 12.35                       | 12.21                     |                           |             |  |  |
| 5                                 | 64QAM      | 12      | 0         | 12.37                    | 12.30                       | 12.25                     |                           |             |  |  |
| 5                                 | 64QAM      | 12      | 7         | 12.37                    | 12.32                       | 12.25                     | 13.5                      | 0           |  |  |
| 5                                 | 64QAM      | 12      | 13        | 12.24                    | 12.29                       | 12.15                     |                           |             |  |  |
| 5                                 | 64QAM      | 25      | 0         | 12.32                    | 12.31                       | 12.18                     |                           |             |  |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 18815                    | 18800                       | 19085                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 3                                 | QPSK       | 1       | 0         | 12.49                    | 12.16                       | 12.06                     | 13.5                      | 0           |  |  |
| 3                                 | QPSK       | 1       | 8         | 12.33                    | 12.33                       | 12.06                     |                           |             |  |  |
| 3                                 | QPSK       | 1       | 14        | 12.28                    | 12.22                       | 12.25                     |                           |             |  |  |
| 3                                 | QPSK       | 8       | 0         | 12.32                    | 12.26                       | 12.40                     | 13.5                      | 0           |  |  |
| 3                                 | QPSK       | 8       | 4         | 12.28                    | 12.22                       | 12.16                     |                           |             |  |  |
| 3                                 | QPSK       | 15      | 0         | 12.27                    | 12.23                       | 12.16                     |                           |             |  |  |
| 3                                 | 16QAM      | 1       | 0         | 12.23                    | 12.50                       | 12.55                     | 13.5                      | 0           |  |  |
| 3                                 | 16QAM      | 1       | 8         | 12.32                    | 12.24                       | 12.13                     |                           |             |  |  |
| 3                                 | 16QAM      | 1       | 14        | 12.46                    | 12.43                       | 12.35                     |                           |             |  |  |
| 3                                 | 16QAM      | 8       | 0         | 12.44                    | 12.29                       | 12.24                     | 13.5                      | 0           |  |  |
| 3                                 | 16QAM      | 8       | 4         | 12.38                    | 12.32                       | 12.25                     |                           |             |  |  |
| 3                                 | 16QAM      | 8       | 7         | 12.34                    | 12.28                       | 12.18                     |                           |             |  |  |
| 3                                 | 16QAM      | 15      | 0         | 12.38                    | 12.24                       | 12.23                     | 13.5                      | 0           |  |  |
| 3                                 | 64QAM      | 1       | 0         | 12.52                    | 12.38                       | 12.35                     |                           |             |  |  |
| 3                                 | 64QAM      | 1       | 8         | 12.33                    | 12.50                       | 12.37                     |                           |             |  |  |
| 3                                 | 64QAM      | 1       | 14        | 12.32                    | 12.35                       | 12.19                     | 13.5                      | 0           |  |  |
| 3                                 | 64QAM      | 8       | 0         | 12.29                    | 12.44                       | 12.22                     |                           |             |  |  |
| 3                                 | 64QAM      | 8       | 4         | 12.34                    |                             |                           |                           |             |  |  |

| Band 7 (2600MHz Band) |            |         |           |                          |                             |                           |                           |             |                     |  |  |
|-----------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|---------------------|--|--|
| Part 27               |            |         |           |                          |                             |                           |                           |             |                     |  |  |
| BW (MHz)              | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |                     |  |  |
| Channel               |            |         |           | 2100                     | 2535                        | 2150                      |                           |             |                     |  |  |
| Frequency (MHz)       |            |         |           | 2510                     | 2535                        | 2560                      |                           |             |                     |  |  |
| 20                    | QPSK       | 1       | 0         | 12.28                    | 12.32                       | 12.23                     | 13                        | 0           |                     |  |  |
| 20                    | QPSK       | 1       | 49        | 12.23                    | 12.28                       | 12.23                     |                           |             |                     |  |  |
| 20                    | QPSK       | 1       | 99        | 12.27                    | 12.29                       | 12.26                     |                           |             |                     |  |  |
| 20                    | QPSK       | 50      | 0         | 12.17                    | 12.26                       | 11.89                     |                           |             |                     |  |  |
| 20                    | QPSK       | 50      | 24        | 12.02                    | 11.91                       | 12.24                     | 13                        | 0           |                     |  |  |
| 20                    | QPSK       | 50      | 50        | 12.01                    | 12.25                       | 12.26                     |                           |             |                     |  |  |
| 20                    | QPSK       | 100     | 0         | 12.28                    | 12.30                       | 12.29                     |                           |             |                     |  |  |
| 20                    | 16QAM      | 1       | 0         | 12.18                    | 12.16                       | 11.97                     |                           |             |                     |  |  |
| 20                    | 16QAM      | 1       | 49        | 11.97                    | 12.01                       | 11.97                     | 13                        | 0           |                     |  |  |
| 20                    | 16QAM      | 1       | 99        | 12.23                    | 12.23                       | 12.24                     |                           |             |                     |  |  |
| 20                    | 16QAM      | 50      | 0         | 11.77                    | 11.88                       | 11.95                     |                           |             |                     |  |  |
| 20                    | 16QAM      | 50      | 24        | 12.02                    | 11.97                       | 12.01                     |                           |             |                     |  |  |
| 20                    | 16QAM      | 50      | 50        | 11.96                    | 11.89                       | 11.90                     | 13                        | 0           |                     |  |  |
| 20                    | 16QAM      | 100     | 0         | 11.91                    | 11.91                       | 11.92                     |                           |             |                     |  |  |
| 20                    | 64QAM      | 1       | 0         | 12.03                    | 11.98                       | 12.06                     |                           |             |                     |  |  |
| 20                    | 64QAM      | 1       | 49        | 12.09                    | 12.14                       | 12.07                     |                           |             |                     |  |  |
| 20                    | 64QAM      | 1       | 99        | 12.16                    | 12.12                       | 12.14                     | 13                        | 0           |                     |  |  |
| 20                    | 64QAM      | 50      | 0         | 11.79                    | 11.90                       | 11.96                     |                           |             |                     |  |  |
| 20                    | 64QAM      | 50      | 24        | 11.99                    | 11.97                       | 12.03                     |                           |             |                     |  |  |
| 20                    | 64QAM      | 50      | 50        | 11.96                    | 11.89                       | 11.89                     |                           |             |                     |  |  |
| 20                    | 64QAM      | 100     | 0         | 11.92                    | 11.91                       | 11.92                     | 13                        | 0           |                     |  |  |
| Channel               |            |         |           | 20625                    | 21100                       | 21375                     |                           |             | Tune-up limit (dBm) |  |  |
| Frequency (MHz)       |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                           |             | MPR (dB)            |  |  |
| 15                    | QPSK       | 1       | 0         | 11.83                    | 11.86                       | 11.85                     | 13                        | 0           |                     |  |  |
| 15                    | QPSK       | 1       | 37        | 11.85                    | 11.90                       | 11.83                     |                           |             |                     |  |  |
| 15                    | QPSK       | 1       | 74        | 11.93                    | 11.93                       | 11.88                     |                           |             |                     |  |  |
| 15                    | QPSK       | 36      | 0         | 11.89                    | 11.94                       | 11.94                     |                           |             |                     |  |  |
| 15                    | QPSK       | 36      | 20        | 12.02                    | 11.96                       | 11.99                     | 13                        | 0           |                     |  |  |
| 15                    | QPSK       | 36      | 39        | 11.99                    | 11.90                       | 11.94                     |                           |             |                     |  |  |
| 15                    | QPSK       | 75      | 0         | 11.95                    | 11.94                       | 11.96                     |                           |             |                     |  |  |
| 15                    | 16QAM      | 1       | 0         | 12.20                    | 12.21                       | 12.19                     |                           |             |                     |  |  |
| 15                    | 16QAM      | 1       | 37        | 12.23                    | 11.96                       | 12.18                     | 13                        | 0           |                     |  |  |
| 15                    | 16QAM      | 1       | 74        | 12.24                    | 11.98                       | 12.19                     |                           |             |                     |  |  |
| 15                    | 16QAM      | 36      | 0         | 11.91                    | 11.96                       | 11.95                     |                           |             |                     |  |  |
| 15                    | 16QAM      | 36      | 20        | 12.01                    | 12.00                       | 12.03                     |                           |             |                     |  |  |
| 15                    | 16QAM      | 36      | 39        | 12.02                    | 11.98                       | 11.96                     | 13                        | 0           |                     |  |  |
| 15                    | 16QAM      | 75      | 0         | 11.97                    | 11.98                       | 11.95                     |                           |             |                     |  |  |
| 15                    | 64QAM      | 1       | 0         | 12.06                    | 12.11                       | 12.06                     |                           |             |                     |  |  |
| 15                    | 64QAM      | 1       | 37        | 12.12                    | 12.13                       | 12.08                     |                           |             |                     |  |  |
| 15                    | 64QAM      | 1       | 74        | 12.13                    | 12.16                       | 12.07                     | 13                        | 0           |                     |  |  |
| 15                    | 64QAM      | 36      | 0         | 11.93                    | 11.97                       | 11.96                     |                           |             |                     |  |  |
| 15                    | 64QAM      | 36      | 20        | 11.99                    | 11.97                       | 12.02                     |                           |             |                     |  |  |
| 15                    | 64QAM      | 36      | 39        | 12.00                    | 11.98                       | 11.97                     |                           |             |                     |  |  |
| 15                    | 64QAM      | 75      | 0         | 11.98                    | 11.97                       | 11.95                     | 13                        | 0           |                     |  |  |
| Channel               |            |         |           | 20600                    | 21100                       | 21400                     |                           |             | Tune-up limit (dBm) |  |  |
| Frequency (MHz)       |            |         |           | 2505                     | 2535                        | 2565                      |                           |             | MPR (dB)            |  |  |
| 10                    | QPSK       | 1       | 0         | 11.85                    | 11.86                       | 11.82                     | 13                        | 0           |                     |  |  |
| 10                    | QPSK       | 1       | 25        | 11.83                    | 11.91                       | 11.79                     |                           |             |                     |  |  |
| 10                    | QPSK       | 1       | 49        | 11.90                    | 11.90                       | 11.85                     |                           |             |                     |  |  |
| 10                    | QPSK       | 25      | 0         | 11.91                    | 11.94                       | 11.92                     |                           |             |                     |  |  |
| 10                    | QPSK       | 25      | 12        | 12.00                    | 11.98                       | 11.98                     | 13                        | 0           |                     |  |  |
| 10                    | QPSK       | 25      | 25        | 12.00                    | 11.95                       | 11.96                     |                           |             |                     |  |  |
| 10                    | QPSK       | 50      | 0         | 11.92                    | 11.89                       | 11.91                     |                           |             |                     |  |  |
| 10                    | 16QAM      | 1       | 0         | 12.21                    | 12.00                       | 12.20                     |                           |             |                     |  |  |
| 10                    | 16QAM      | 1       | 25        | 12.22                    | 12.19                       | 12.19                     | 13                        | 0           |                     |  |  |
| 10                    | 16QAM      | 1       | 49        | 11.91                    | 12.25                       | 12.25                     |                           |             |                     |  |  |
| 10                    | 16QAM      | 25      | 0         | 11.96                    | 11.99                       | 11.96                     |                           |             |                     |  |  |
| 10                    | 16QAM      | 25      | 12        | 11.99                    | 12.00                       | 12.00                     |                           |             |                     |  |  |
| 10                    | 16QAM      | 25      | 25        | 12.02                    | 11.99                       | 11.99                     | 13                        | 0           |                     |  |  |
| 10                    | 16QAM      | 50      | 0         | 11.91                    | 11.90                       | 11.91                     |                           |             |                     |  |  |
| 10                    | 64QAM      | 1       | 0         | 12.18                    | 12.23                       | 12.15                     |                           |             |                     |  |  |
| 10                    | 64QAM      | 1       | 25        | 12.14                    | 12.25                       | 12.18                     |                           |             |                     |  |  |
| 10                    | 64QAM      | 1       | 49        | 11.98                    | 11.98                       | 12.23                     | 13                        | 0           |                     |  |  |
| 10                    | 64QAM      | 25      | 0         | 11.96                    | 11.98                       | 11.95                     |                           |             |                     |  |  |
| 10                    | 64QAM      | 25      | 12        | 12.00                    | 11.98                       | 12.01                     |                           |             |                     |  |  |
| 10                    | 64QAM      | 25      | 25        | 12.04                    | 12.00                       | 11.98                     |                           |             |                     |  |  |
| 10                    | 64QAM      | 50      | 0         | 11.89                    | 11.92                       | 11.90                     | 13                        | 0           |                     |  |  |
| Channel               |            |         |           | 20775                    | 21100                       | 21425                     |                           |             | Tune-up limit (dBm) |  |  |
| Frequency (MHz)       |            |         |           | 25025                    | 2535                        | 2567.5                    |                           |             | MPR (dB)            |  |  |
| 5                     | QPSK       | 1       | 0         | 11.90                    | 11.89                       | 11.85                     | 13                        | 0           |                     |  |  |
| 5                     | QPSK       | 1       | 12        | 11.88                    | 11.97                       | 11.90                     |                           |             |                     |  |  |
| 5                     | QPSK       | 1       | 24        | 11.92                    | 11.96                       | 11.85                     |                           |             |                     |  |  |
| 5                     | QPSK       | 12      | 0         | 11.95                    | 11.97                       | 11.89                     |                           |             |                     |  |  |
| 5                     | QPSK       | 12      | 7         | 12.03                    | 12.08                       | 11.99                     | 13                        | 0           |                     |  |  |
| 5                     | QPSK       | 12      | 13        | 11.97                    | 12.05                       | 11.95                     |                           |             |                     |  |  |
| 5                     | QPSK       | 25      | 0         | 11.94                    | 11.92                       | 11.93                     |                           |             |                     |  |  |
| 5                     | 16QAM      | 1       | 0         | 12.22                    | 12.21                       | 12.17                     |                           |             |                     |  |  |
| 5                     | 16QAM      | 1       | 12        | 12.21                    | 12.25                       | 12.19                     | 13                        | 0           |                     |  |  |
| 5                     | 16QAM      | 1       | 24        | 12.23                    | 11.94                       | 12.19                     |                           |             |                     |  |  |
| 5                     | 16QAM      | 12      | 0         | 11.99                    | 11.97                       | 11.94                     |                           |             |                     |  |  |
| 5                     | 16QAM      | 12      | 7         | 12.02                    | 12.12                       | 11.99                     |                           |             |                     |  |  |
| 5                     | 16QAM      | 12      | 13        | 12.03                    | 12.03                       | 11.94                     | 13                        | 0           |                     |  |  |
| 5                     | 16QAM      | 25      | 0         | 11.99                    | 11.96                       | 11.96                     |                           |             |                     |  |  |
| 5                     | 64QAM      | 1       | 0         | 12.15                    | 12.14                       | 12.10                     |                           |             |                     |  |  |
| 5                     | 64QAM      | 1       | 12        | 12.17                    | 12.21                       | 12.14                     |                           |             |                     |  |  |
| 5                     | 64QAM      | 1       | 24        | 12.11                    | 12.19                       | 12.11                     | 13                        | 0           |                     |  |  |
| 5                     | 64QAM      | 12      | 0         | 11.96                    | 11.91                       | 11.92                     |                           |             |                     |  |  |
| 5                     | 64QAM      | 12      | 7         | 11.96                    | 12.10                       | 11.96                     |                           |             |                     |  |  |
| 5                     | 64QAM      | 12      | 13        | 12.00                    | 11.99                       | 11.91                     |                           |             |                     |  |  |
| 5                     | 64QAM      | 25      | 0         | 11.99                    | 11.95                       | 11.95                     | 13                        | 0           |                     |  |  |
| Channel               |            |         |           | 20775                    | 21100                       | 21425                     |                           |             | Tune-up limit (dBm) |  |  |
| Frequency (MHz)       |            |         |           | 25025                    | 2535                        | 2567.5                    |                           |             | MPR (dB)            |  |  |

| Band 12 (700MHz Low Band)         |            |         |           |                       |                          |                        |                     |          |  |  |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| Part 27(only on channel required) |            |         |           |                       |                          |                        |                     |          |  |  |  |
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |  |  |
| Channel                           |            |         |           | 23050                 | 23095                    | 23130                  |                     |          |  |  |  |
| Frequency (MHz)                   |            |         |           | 704                   | 707.5                    | 711                    |                     |          |  |  |  |
| 10                                | QPSK       | 1       | 0         | 19.74                 | 19.82                    | 19.72                  | 21                  | 0        |  |  |  |
| 10                                | QPSK       | 1       | 25        | 19.73                 | 19.73                    | 19.76                  |                     |          |  |  |  |
| 10                                | QPSK       | 1       | 49        | 19.61                 | 19.66                    | 19.77                  |                     |          |  |  |  |
| 10                                | QPSK       | 25      | 0         | 19.57                 | 19.79                    | 19.64                  |                     |          |  |  |  |
| 10                                | QPSK       | 25      | 12        | 19.61                 | 19.62                    | 19.58                  | 21                  | 0        |  |  |  |
| 10                                | QPSK       | 25      | 25        | 19.75                 | 19.66                    | 19.89                  |                     |          |  |  |  |
| 10                                | QPSK       | 50      | 0         | 19.57                 | 19.72                    | 19.64                  |                     |          |  |  |  |
| 10                                | 16QAM      | 1       | 0         | 19.50                 | 19.50                    | 19.80                  | 21                  | 0        |  |  |  |
| 10                                | 16QAM      | 1       | 25        | 19.81                 | 19.79                    | 19.80                  |                     |          |  |  |  |
| 10                                | 16QAM      | 1       | 49        | 19.41                 | 19.76                    | 19.75                  |                     |          |  |  |  |
| 10                                | 16QAM      | 25      | 0         | 19.45                 | 19.50                    | 19.54                  |                     |          |  |  |  |
| 10                                | 16QAM      | 25      | 12        | 19.62                 | 19.54                    | 19.58                  | 21                  | 0        |  |  |  |
| 10                                | 16QAM      | 25      | 25        | 19.49                 | 19.47                    | 19.51                  |                     |          |  |  |  |
| 10                                | 16QAM      | 50      | 0         | 19.55                 | 19.53                    | 19.54                  |                     |          |  |  |  |
| 10                                | 8QAM       | 1       | 0         | 19.53                 | 19.54                    | 19.68                  | 21                  | 0        |  |  |  |
| 10                                | 8QAM       | 1       | 25        | 19.49                 | 19.50                    | 19.51                  |                     |          |  |  |  |
| 10                                | 8QAM       | 1       | 49        | 19.55                 | 19.50                    | 19.54                  |                     |          |  |  |  |
| 10                                | 8QAM       | 25      | 0         | 19.47                 | 19.43                    | 19.38                  |                     |          |  |  |  |
| 10                                | 8QAM       | 25      | 12        | 19.63                 | 19.53                    | 19.43                  | 21                  | 0        |  |  |  |
| 10                                | 8QAM       | 25      | 25        | 19.55                 | 19.51                    | 19.50                  |                     |          |  |  |  |
| 10                                | 8QAM       | 50      | 0         | 19.54                 | 19.53                    | 19.49                  |                     |          |  |  |  |
| Channel                           |            |         |           | 23050                 | 23095                    | 23135                  | Tune-up limit (dbm) | MPR (db) |  |  |  |
| Frequency (MHz)                   |            |         |           | 703.5                 | 707.5                    | 710.5                  |                     |          |  |  |  |
| 5                                 | QPSK       | 1       | 0         | 19.98                 | 19.98                    | 19.03                  | 21                  | 0        |  |  |  |
| 5                                 | QPSK       | 1       | 12        | 19.16                 | 19.13                    | 19.06                  |                     |          |  |  |  |
| 5                                 | QPSK       | 1       | 24        | 19.11                 | 19.09                    | 19.05                  |                     |          |  |  |  |
| 5                                 | QPSK       | 12      | 0         | 19.21                 | 19.16                    | 19.13                  |                     |          |  |  |  |
| 5                                 | QPSK       | 12      | 7         | 19.28                 | 19.22                    | 19.19                  | 21                  | 0        |  |  |  |
| 5                                 | QPSK       | 12      | 13        | 19.25                 | 19.18                    | 19.13                  |                     |          |  |  |  |
| 5                                 | QPSK       | 25      | 0         | 19.21                 | 19.20                    | 19.09                  |                     |          |  |  |  |
| 5                                 | 16QAM      | 1       | 0         | 19.46                 | 19.34                    | 19.31                  | 21                  | 0        |  |  |  |
| 5                                 | 16QAM      | 1       | 12        | 19.40                 | 19.37                    | 19.34                  |                     |          |  |  |  |
| 5                                 | 16QAM      | 1       | 24        | 19.42                 | 19.37                    | 19.33                  |                     |          |  |  |  |
| 5                                 | 16QAM      | 12      | 0         | 19.24                 | 19.20                    | 19.15                  |                     |          |  |  |  |
| 5                                 | 16QAM      | 12      | 7         | 19.30                 | 19.25                    | 19.22                  | 21                  | 0        |  |  |  |
| 5                                 | 16QAM      | 12      | 13        | 19.25                 | 19.22                    | 19.16                  |                     |          |  |  |  |
| 5                                 | 16QAM      | 25      | 0         | 19.29                 | 19.20                    | 19.14                  |                     |          |  |  |  |
| 5                                 | 8QAM       | 1       | 0         | 19.36                 | 19.26                    | 19.24                  | 21                  | 0        |  |  |  |
| 5                                 | 8QAM       | 1       | 12        | 19.31                 | 19.31                    | 19.24                  |                     |          |  |  |  |
| 5                                 | 8QAM       | 1       | 24        | 19.36                 | 19.28                    | 19.32                  |                     |          |  |  |  |
| 5                                 | 8QAM       | 12      | 0         | 19.21                 | 19.19                    | 19.15                  |                     |          |  |  |  |
| 5                                 | 8QAM       | 12      | 7         | 19.27                 | 19.25                    | 19.19                  | 21                  | 0        |  |  |  |
| 5                                 | 8QAM       | 12      | 13        | 19.22                 | 19.19                    | 19.15                  |                     |          |  |  |  |
| 5                                 | 8QAM       | 25      | 0         | 19.28                 | 19.20                    | 19.11                  |                     |          |  |  |  |
| Channel                           |            |         |           | 23025                 | 23095                    | 23165                  | Tune-up limit (dbm) | MPR (db) |  |  |  |
| Frequency (MHz)                   |            |         |           | 700.5                 | 707.5                    | 714.5                  |                     |          |  |  |  |
| 3                                 | QPSK       | 1       | 0         | 19.14                 | 19.19                    | 19.20                  | 21                  | 0        |  |  |  |
| 3                                 | QPSK       | 1       | 8         | 19.32                 | 19.33                    | 19.27                  |                     |          |  |  |  |
| 3                                 | QPSK       | 1       | 14        | 19.20                 | 19.26                    | 19.16                  |                     |          |  |  |  |
| 3                                 | QPSK       | 8       | 0         | 19.43                 | 19.31                    | 19.28                  |                     |          |  |  |  |
| 3                                 | QPSK       | 8       | 4         | 19.42                 | 19.37                    | 19.35                  | 21                  | 0        |  |  |  |
| 3                                 | QPSK       | 8       | 7         | 19.39                 | 19.33                    | 19.30                  |                     |          |  |  |  |
| 3                                 | QPSK       | 15      | 0         | 19.38                 | 19.35                    | 19.23                  |                     |          |  |  |  |
| 3                                 | 16QAM      | 1       | 0         | 19.64                 | 19.51                    | 19.53                  |                     |          |  |  |  |
| 3                                 | 16QAM      | 1       | 8         | 19.66                 | 19.61                    | 19.50                  | 21                  | 0        |  |  |  |
| 3                                 | 16QAM      | 1       | 14        | 19.64                 | 19.57                    | 19.51                  |                     |          |  |  |  |
| 3                                 | 16QAM      | 8       | 0         | 19.48                 | 19.37                    | 19.32                  |                     |          |  |  |  |
| 3                                 | 16QAM      | 8       | 4         | 19.51                 | 19.47                    | 19.41                  |                     |          |  |  |  |
| 3                                 | 16QAM      | 8       | 7         | 19.47                 | 19.43                    | 19.35                  | 21                  | 0        |  |  |  |
| 3                                 | 16QAM      | 15      | 0         | 19.45                 | 19.40                    | 19.30                  |                     |          |  |  |  |
| 3                                 | 8QAM       | 1       | 0         | 19.61                 | 19.46                    | 19.48                  |                     |          |  |  |  |
| 3                                 | 8QAM       | 1       | 8         | 19.58                 | 19.53                    | 19.52                  |                     |          |  |  |  |
| 3                                 | 8QAM       | 1       | 14        | 19.59                 | 19.51                    | 19.43                  | 21                  | 0        |  |  |  |
| 3                                 | 8QAM       | 8       | 0         | 19.42                 | 19.34                    | 19.30                  |                     |          |  |  |  |
| 3                                 | 8QAM       | 8       | 4         | 19.45                 | 19.42                    | 19.39                  |                     |          |  |  |  |
| 3                                 | 8QAM       | 8       | 7         | 19.43                 | 19.40                    | 19.33                  |                     |          |  |  |  |
| 3                                 | 8QAM       | 15      | 0         | 19.41                 | 19.36                    | 19.28                  |                     |          |  |  |  |
| Channel                           |            |         |           | 23025                 | 23095                    | 23173                  | Tune-up limit (dbm) | MPR (db) |  |  |  |
| Frequency (MHz)                   |            |         |           | 699.7                 | 707.5                    | 715.3                  |                     |          |  |  |  |
| 1.4                               | QPSK       | 1       | 0         | 19.46                 | 19.34                    | 19.24                  | 21                  | 0        |  |  |  |
| 1.4                               | QPSK       | 1       | 3         | 19.51                 | 19.46                    | 19.35                  |                     |          |  |  |  |
| 1.4                               | QPSK       | 1       | 5         | 19.23                 | 19.34                    | 19.47                  |                     |          |  |  |  |
| 1.4                               | QPSK       | 3       | 0         | 19.53                 | 19.46                    | 19.53                  |                     |          |  |  |  |
| 1.4                               | QPSK       | 3       | 1         | 19.47                 | 19.42                    | 19.59                  | 21                  | 0        |  |  |  |
| 1.4                               | QPSK       | 3       | 1         | 19.30                 | 19.50                    | 19.40                  |                     |          |  |  |  |
| 1.4                               | QPSK       | 6       | 0         | 19.33                 | 19.16                    | 19.12                  |                     |          |  |  |  |
| 1.4                               | 16QAM      | 1       | 0         | 19.29                 | 19.42                    | 19.41                  |                     |          |  |  |  |
| 1.4                               | 16QAM      | 1       | 3         | 19.46                 | 19.32                    | 19.35                  | 21                  | 0        |  |  |  |
| 1.4                               | 16QAM      | 1       | 5         | 19.46                 | 19.52                    | 19.32                  |                     |          |  |  |  |
| 1.4                               | 16QAM      | 3       | 0         | 19.26                 | 19.29                    | 19.30                  |                     |          |  |  |  |
| 1.4                               | 16QAM      | 3       | 1         | 19.41                 | 19.23                    | 19.16                  |                     |          |  |  |  |
| 1.4                               | 16QAM      | 3       | 3         | 19.39                 | 19.17                    | 19.16                  | 21                  | 0        |  |  |  |
| 1.4                               | 16QAM      | 6       | 0         | 19.27                 | 19.36                    | 19.18                  |                     |          |  |  |  |
| 1.4                               | 8QAM       | 1       | 0         | 19.27                 | 19.46                    | 19.45                  |                     |          |  |  |  |
| 1.4                               | 8QAM       | 1       | 3         | 19.12                 | 19.50                    | 19.38                  |                     |          |  |  |  |
| 1.4                               | 8QAM       | 1       | 5         | 19.57                 | 19.51                    | 19.51                  | 21                  | 0        |  |  |  |
| 1.4                               | 8QAM       | 3       | 0         | 19.44                 | 19.12                    | 19.42                  |                     |          |  |  |  |
| 1.4                               | 8QAM       | 3       | 1         | 19.26                 | 19.32                    | 19.32                  |                     |          |  |  |  |
| 1.4                               | 8QAM       | 3       | 3         | 19.34                 | 19.33                    | 19.25                  |                     |          |  |  |  |
| 1.4                               | 8QAM       | 6       | 0         | 19.33                 | 19.31                    | 19.41                  | 21                  | 0        |  |  |  |

## Reduced Power Mode for Hotspot On (EN-DC)

| Band 2 (1900MHz Band)<br>Part 24E |            |         |           |                        |                           |                         |                           |             |  |  |
|-----------------------------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------------|-------------|--|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low<br>Ch./Freq. | Power Middle<br>Ch./Freq. | Power High<br>Ch./Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel                           |            |         |           |                        |                           |                         |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1860                   | 1880                      | 1900                    |                           |             |  |  |
| 20                                | QPSK       | 1       | 0         | 10.23                  | 10.35                     | 10.15                   | 11.5                      | 0           |  |  |
| 20                                | QPSK       | 1       | 49        | 10.03                  | 10.19                     | 10.11                   |                           |             |  |  |
| 20                                | QPSK       | 1       | 99        | 10.17                  | 10.12                     | 9.97                    |                           |             |  |  |
| 20                                | QPSK       | 50      | 0         | 10.27                  | 10.21                     | 10.14                   | 11.5                      | 0           |  |  |
| 20                                | QPSK       | 50      | 24        | 10.17                  | 10.23                     | 10.24                   |                           |             |  |  |
| 20                                | QPSK       | 50      | 50        | 10.23                  | 10.28                     | 10.18                   |                           |             |  |  |
| 20                                | QPSK       | 100     | 0         | 10.15                  | 10.19                     | 10.10                   | 11.5                      | 0           |  |  |
| 20                                | 16QAM      | 1       | 0         | 10.13                  | 10.14                     | 10.14                   |                           |             |  |  |
| 20                                | 16QAM      | 1       | 49        | 10.15                  | 10.15                     | 10.08                   |                           |             |  |  |
| 20                                | 16QAM      | 1       | 99        | 10.09                  | 10.09                     | 9.93                    | 11.5                      | 0           |  |  |
| 20                                | 16QAM      | 50      | 0         | 9.77                   | 9.80                      | 9.76                    |                           |             |  |  |
| 20                                | 16QAM      | 50      | 24        | 9.87                   | 9.88                      | 9.92                    |                           |             |  |  |
| 20                                | 16QAM      | 50      | 50        | 9.90                   | 9.90                      | 9.78                    | 11.5                      | 0           |  |  |
| 20                                | 16QAM      | 100     | 0         | 9.80                   | 9.79                      | 9.75                    |                           |             |  |  |
| 20                                | 64QAM      | 1       | 0         | 9.96                   | 9.98                      | 9.95                    |                           |             |  |  |
| 20                                | 64QAM      | 1       | 49        | 9.90                   | 9.81                      | 9.95                    | 11.5                      | 0           |  |  |
| 20                                | 64QAM      | 1       | 99        | 9.96                   | 9.91                      | 9.81                    |                           |             |  |  |
| 20                                | 64QAM      | 50      | 0         | 9.85                   | 9.79                      | 9.72                    |                           |             |  |  |
| 20                                | 64QAM      | 50      | 24        | 9.90                   | 9.81                      | 9.88                    | 11.5                      | 0           |  |  |
| 20                                | 64QAM      | 50      | 50        | 9.91                   | 9.84                      | 9.77                    |                           |             |  |  |
| 20                                | 64QAM      | 100     | 0         | 9.84                   | 9.76                      | 9.73                    |                           |             |  |  |
| Channel                           |            |         |           |                        |                           |                         |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1867.5                 | 1890.0                    | 1912.5                  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 15                                | QPSK       | 1       | 0         | 9.84                   | 9.70                      | 9.71                    | 11.5                      | 0           |  |  |
| 15                                | QPSK       | 1       | 37        | 9.81                   | 9.73                      | 9.71                    |                           |             |  |  |
| 15                                | QPSK       | 1       | 74        | 9.58                   | 9.75                      | 9.62                    |                           |             |  |  |
| 15                                | QPSK       | 36      | 0         | 9.69                   | 9.76                      | 9.74                    | 11.5                      | 0           |  |  |
| 15                                | QPSK       | 36      | 20        | 9.75                   | 9.82                      | 9.81                    |                           |             |  |  |
| 15                                | QPSK       | 36      | 39        | 9.73                   | 9.88                      | 9.79                    |                           |             |  |  |
| 15                                | QPSK       | 75      | 0         | 9.76                   | 9.78                      | 9.73                    | 11.5                      | 0           |  |  |
| 15                                | 16QAM      | 1       | 0         | 9.95                   | 10.03                     | 10.10                   |                           |             |  |  |
| 15                                | 16QAM      | 1       | 37        | 9.96                   | 10.08                     | 10.08                   |                           |             |  |  |
| 15                                | 16QAM      | 1       | 74        | 9.86                   | 10.04                     | 9.89                    | 11.5                      | 0           |  |  |
| 15                                | 16QAM      | 36      | 0         | 9.71                   | 9.73                      | 9.72                    |                           |             |  |  |
| 15                                | 16QAM      | 36      | 20        | 9.77                   | 9.84                      | 9.80                    |                           |             |  |  |
| 15                                | 16QAM      | 36      | 39        | 9.68                   | 9.79                      | 9.79                    | 11.5                      | 0           |  |  |
| 15                                | 16QAM      | 75      | 0         | 9.74                   | 9.79                      | 9.73                    |                           |             |  |  |
| 15                                | 64QAM      | 1       | 0         | 9.86                   | 9.91                      | 9.93                    |                           |             |  |  |
| 15                                | 64QAM      | 1       | 37        | 9.79                   | 9.96                      | 9.90                    | 11.5                      | 0           |  |  |
| 15                                | 64QAM      | 1       | 74        | 9.71                   | 9.90                      | 9.78                    |                           |             |  |  |
| 15                                | 64QAM      | 36      | 0         | 9.71                   | 9.74                      | 9.73                    |                           |             |  |  |
| 15                                | 64QAM      | 36      | 20        | 9.79                   | 9.79                      | 9.79                    | 11.5                      | 0           |  |  |
| 15                                | 64QAM      | 36      | 39        | 9.72                   | 9.88                      | 9.78                    |                           |             |  |  |
| 15                                | 64QAM      | 75      | 0         | 9.74                   | 9.80                      | 9.76                    |                           |             |  |  |
| Channel                           |            |         |           |                        |                           |                         |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1865.0                 | 1890.0                    | 1915.0                  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 10                                | QPSK       | 1       | 0         | 9.83                   | 9.78                      | 9.81                    | 11.5                      | 0           |  |  |
| 10                                | QPSK       | 1       | 25        | 9.66                   | 9.72                      | 9.74                    |                           |             |  |  |
| 10                                | QPSK       | 1       | 49        | 9.78                   | 9.51                      | 9.67                    |                           |             |  |  |
| 10                                | QPSK       | 25      | 0         | 9.76                   | 9.74                      | 9.74                    | 11.5                      | 0           |  |  |
| 10                                | QPSK       | 25      | 12        | 9.82                   | 9.84                      | 9.82                    |                           |             |  |  |
| 10                                | QPSK       | 25      | 25        | 9.69                   | 9.85                      | 9.74                    |                           |             |  |  |
| 10                                | QPSK       | 50      | 0         | 9.72                   | 9.73                      | 9.68                    | 11.5                      | 0           |  |  |
| 10                                | 16QAM      | 1       | 0         | 9.84                   | 9.84                      | 10.17                   |                           |             |  |  |
| 10                                | 16QAM      | 1       | 25        | 10.03                  | 10.13                     | 10.07                   |                           |             |  |  |
| 10                                | 16QAM      | 1       | 49        | 9.75                   | 9.81                      | 10.01                   | 11.5                      | 0           |  |  |
| 10                                | 16QAM      | 25      | 0         | 9.78                   | 9.73                      | 9.72                    |                           |             |  |  |
| 10                                | 16QAM      | 25      | 12        | 9.83                   | 9.82                      | 9.82                    |                           |             |  |  |
| 10                                | 16QAM      | 25      | 25        | 9.68                   | 9.82                      | 9.79                    | 11.5                      | 0           |  |  |
| 10                                | 16QAM      | 50      | 0         | 9.74                   | 9.74                      | 9.68                    |                           |             |  |  |
| 10                                | 64QAM      | 1       | 0         | 9.84                   | 9.81                      | 10.19                   |                           |             |  |  |
| 10                                | 64QAM      | 1       | 25        | 10.01                  | 10.16                     | 10.08                   | 11.5                      | 0           |  |  |
| 10                                | 64QAM      | 1       | 49        | 9.79                   | 9.84                      | 9.99                    |                           |             |  |  |
| 10                                | 64QAM      | 25      | 0         | 9.81                   | 9.75                      | 9.71                    |                           |             |  |  |
| 10                                | 64QAM      | 25      | 12        | 9.84                   | 9.85                      | 9.82                    | 11.5                      | 0           |  |  |
| 10                                | 64QAM      | 25      | 25        | 9.66                   | 9.80                      | 9.75                    |                           |             |  |  |
| 10                                | 64QAM      | 50      | 0         | 9.69                   | 9.72                      | 9.70                    |                           |             |  |  |
| Channel                           |            |         |           |                        |                           |                         |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1862.5                 | 1890.0                    | 1917.5                  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 5                                 | QPSK       | 1       | 0         | 9.78                   | 9.72                      | 9.70                    | 11.5                      | 0           |  |  |
| 5                                 | QPSK       | 1       | 12        | 9.78                   | 9.84                      | 9.74                    |                           |             |  |  |
| 5                                 | QPSK       | 1       | 24        | 9.59                   | 9.71                      | 9.57                    |                           |             |  |  |
| 5                                 | QPSK       | 12      | 0         | 9.90                   | 9.89                      | 9.87                    | 11.5                      | 0           |  |  |
| 5                                 | QPSK       | 12      | 7         | 9.89                   | 9.86                      | 9.84                    |                           |             |  |  |
| 5                                 | QPSK       | 12      | 13        | 9.79                   | 9.86                      | 9.73                    |                           |             |  |  |
| 5                                 | QPSK       | 25      | 0         | 9.81                   | 9.84                      | 9.78                    | 11.5                      | 0           |  |  |
| 5                                 | 16QAM      | 1       | 0         | 10.07                  | 10.00                     | 10.02                   |                           |             |  |  |
| 5                                 | 16QAM      | 1       | 12        | 10.06                  | 10.09                     | 10.00                   |                           |             |  |  |
| 5                                 | 16QAM      | 1       | 24        | 9.96                   | 9.98                      | 9.90                    | 11.5                      | 0           |  |  |
| 5                                 | 16QAM      | 12      | 0         | 9.93                   | 9.89                      | 9.86                    |                           |             |  |  |
| 5                                 | 16QAM      | 12      | 7         | 9.89                   | 9.86                      | 9.83                    |                           |             |  |  |
| 5                                 | 16QAM      | 12      | 13        | 9.79                   | 9.80                      | 9.69                    | 11.5                      | 0           |  |  |
| 5                                 | 16QAM      | 25      | 0         | 9.85                   | 9.85                      | 9.82                    |                           |             |  |  |
| 5                                 | 64QAM      | 1       | 0         | 10.01                  | 9.93                      | 9.93                    |                           |             |  |  |
| 5                                 | 64QAM      | 1       | 12        | 10.01                  | 10.08                     | 10.01                   | 11.5                      | 0           |  |  |
| 5                                 | 64QAM      | 1       | 24        | 9.80                   | 9.89                      | 9.80                    |                           |             |  |  |
| 5                                 | 64QAM      | 12      | 0         | 9.88                   | 9.88                      | 9.84                    |                           |             |  |  |
| 5                                 | 64QAM      | 12      | 7         | 9.87                   | 9.86                      | 9.82                    | 11.5                      | 0           |  |  |
| 5                                 | 64QAM      | 12      | 13        | 9.77                   | 9.84                      | 9.74                    |                           |             |  |  |
| 5                                 | 64QAM      | 25      | 0         | 9.86                   | 9.84                      | 9.79                    |                           |             |  |  |
| Channel                           |            |         |           |                        |                           |                         |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1861.5                 | 1880.0                    | 1918.5                  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 3                                 | QPSK       | 1       | 0         | 9.58                   | 9.77                      | 9.70                    | 11.5                      | 0           |  |  |
| 3                                 | QPSK       | 1       | 8         | 9.68                   | 9.64                      | 9.73                    |                           |             |  |  |
| 3                                 | QPSK       | 1       | 14        | 9.75                   | 9.64                      | 9.78                    |                           |             |  |  |
| 3                                 | QPSK       | 8       | 0         | 9.58                   | 9.74                      | 9.62                    | 11.5                      | 0           |  |  |
| 3                                 | QPSK       | 8       | 4         | 9.84                   | 9.51                      | 9.63                    |                           |             |  |  |
| 3                                 | QPSK       | 8       | 7         | 9.78                   | 9.96                      | 9.86                    |                           |             |  |  |
| 3                                 | QPSK       | 15      | 0         | 9.60                   | 9.72                      | 9.65                    | 11.5                      | 0           |  |  |
| 3                                 | 16QAM      | 1       | 0         | 10.02                  | 10.01                     | 10.14                   |                           |             |  |  |
| 3                                 | 16QAM      | 1       | 8         | 9.73                   | 9.79                      | 9.83                    |                           |             |  |  |
| 3                                 | 16QAM      | 1       | 14        | 9.92                   | 9.96                      | 10.03                   | 11.5                      | 0           |  |  |
| 3                                 | 16QAM      | 8       | 0         | 9.71                   | 9.79                      | 9.82                    |                           |             |  |  |
| 3                                 | 16QAM      | 8       | 4         | 9.71                   | 9.76                      | 9.50                    |                           |             |  |  |
| 3                                 | 16QAM      | 8       | 7         | 9.78                   | 9.60                      | 9.71                    | 11.5                      | 0           |  |  |
| 3                                 | 16QAM      | 15      | 0         | 9.81                   | 9.51                      | 9.91                    |                           |             |  |  |
| 3                                 | 64QAM      | 1       | 0         | 9.98                   | 10.05                     | 9.99                    |                           |             |  |  |
| 3                                 | 64QAM      | 1       | 8         | 9.97                   | 10.05                     | 9.81                    | 11.5                      | 0           |  |  |
| 3                                 | 64QAM      | 1       | 14        | 9.93                   | 9.83                      | 9.92                    |                           |             |  |  |
| 3                                 | 64QAM      | 8       | 0         | 9.88                   | 9.57                      | 9.94                    |                           |             |  |  |
| 3                                 | 64QAM      | 8       | 4         | 9.82                   | 9.54                      | 9.75                    | 11.5                      | 0           |  |  |
| 3                                 | 64QAM      | 8       | 7         | 9.50                   | 9.50                      | 9.78                    |                           |             |  |  |
| 3                                 | 64QAM      | 15      | 0         | 9.82                   | 9.94                      | 9.73                    |                           |             |  |  |
| Channel                           |            |         |           |                        |                           |                         |                           |             |  |  |
| Frequency (MHz)                   |            |         |           | 1860.7                 | 1880.0                    | 1919.3                  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |  |
| 1.4                               | QPSK       | 1       | 0         | 9.82                   | 9.55                      | 9.55                    | 11.5                      | 0           |  |  |
| 1.4                               | QPSK       | 1       | 3         | 9.81                   | 9.58                      | 9.76                    |                           |             |  |  |
| 1.4                               | QPSK       | 1       | 5         | 9.70                   | 9.58                      | 9.74                    |                           |             |  |  |
| 1.4                               | QPSK       | 3       | 0         | 9.84                   | 9.57                      | 9.81                    | 11.5                      | 0           |  |  |
| 1.4                               | QPSK       | 3       | 1         | 9.77                   | 9.85                      | 9.77                    |                           |             |  |  |
| 1.4                               | QPSK       | 3       | 3         | 9.82                   | 9.83                      | 9.74                    |                           |             |  |  |
| 1.4                               | QPSK       | 6       | 0         | 9.64                   | 9.94                      | 9.70                    | 11.5                      | 0           |  |  |
| 1.4                               | QPSK       | 6       | 0         | 9.86                   | 9.93                      | 9.92                    |                           |             |  |  |
| 1.4                               | 16QAM      | 1       | 3         | 9.99                   | 9.77                      | 9.91                    |                           |             |  |  |
| 1.4                               | 16QAM      | 1       | 5         | 9.99                   | 9.98                      | 9.81                    | 11.5                      | 0           |  |  |
| 1.4                               | 16QAM      | 3       | 0         | 9.92                   | 9.72                      | 9.87                    |                           |             |  |  |
| 1.4                               | 16QAM      | 3       | 1         | 9.67                   | 9.84                      | 9.95                    |                           |             |  |  |
| 1.4                               | 16QAM      | 3       | 3         | 9.77                   | 9.84                      | 9.84                    | 11.5                      | 0           |  |  |
| 1.4                               | 16QAM      | 6       | 0         | 9.97                   | 10.01                     | 9.83                    |                           |             |  |  |
| 1.4                               | 64QAM      | 1       | 0         | 9.85                   | 9.84                      | 9.69                    |                           |             |  |  |
| 1.4                               | 64QAM      | 1       | 3         | 10.03                  | 10.07                     | 9.98                    | 11.5                      | 0           |  |  |
| 1.4                               | 64QAM      | 1       | 5         | 9.91                   | 9.73                      | 9.88                    |                           |             |  |  |
| 1.4                               | 64QAM      | 3       | 0         | 9.99                   | 9.83                      | 9.93                    |                           |             |  |  |
| 1.4                               | 64QAM      | 3       | 1         | 10.04                  | 9.87                      | 9.85                    | 11.5                      | 0           |  |  |
| 1.4                               | 64QAM      | 3       | 3         | 9.97                   | 9.77                      | 9.80                    |                           |             |  |  |
| 1.4                               | 64QAM      | 6       | 0         | 9.96                   | 9.82                      | 9.76                    |                           |             |  |  |

| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| Part 27               |            |         |           |                       |                          |                        |                     |          |  |
| BW (MHz)              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel               |            |         |           | 20650                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                    | QPSK       | 1       | 0         | 9.84                  | 10.03                    | 9.82                   | 11                  | 0        |  |
| 20                    | QPSK       | 1       | 49        | 9.83                  | 9.85                     | 9.81                   |                     |          |  |
| 20                    | QPSK       | 1       | 99        | 9.92                  | 9.89                     | 9.84                   |                     |          |  |
| 20                    | QPSK       | 50      | 0         | 9.92                  | 10.00                    | 9.92                   | 11                  | 0        |  |
| 20                    | QPSK       | 50      | 24        | 9.99                  | 9.95                     | 9.99                   |                     |          |  |
| 20                    | QPSK       | 50      | 50        | 9.84                  | 9.87                     | 9.87                   |                     |          |  |
| 20                    | QPSK       | 100     | 0         | 9.97                  | 9.96                     | 9.93                   | 11                  | 0        |  |
| 20                    | 16QAM      | 1       | 0         | 9.85                  | 9.86                     | 9.87                   |                     |          |  |
| 20                    | 16QAM      | 1       | 49        | 9.90                  | 9.94                     | 9.89                   |                     |          |  |
| 20                    | 16QAM      | 1       | 99        | 9.95                  | 9.91                     | 9.91                   | 11                  | 0        |  |
| 20                    | 16QAM      | 50      | 0         | 9.46                  | 9.57                     | 9.62                   |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 9.69                  | 9.67                     | 9.67                   |                     |          |  |
| 20                    | 16QAM      | 50      | 50        | 9.66                  | 9.57                     | 9.55                   | 11                  | 0        |  |
| 20                    | 16QAM      | 100     | 0         | 9.59                  | 9.58                     | 9.57                   |                     |          |  |
| 20                    | 64QAM      | 1       | 0         | 9.72                  | 9.75                     | 9.73                   |                     |          |  |
| 20                    | 64QAM      | 1       | 49        | 9.77                  | 9.80                     | 9.74                   | 11                  | 0        |  |
| 20                    | 64QAM      | 1       | 99        | 9.82                  | 9.81                     | 9.73                   |                     |          |  |
| 20                    | 64QAM      | 50      | 0         | 9.47                  | 9.59                     | 9.62                   |                     |          |  |
| 20                    | 64QAM      | 50      | 24        | 9.67                  | 9.61                     | 9.63                   | 11                  | 0        |  |
| 20                    | 64QAM      | 50      | 50        | 9.62                  | 9.55                     | 9.53                   |                     |          |  |
| 20                    | 64QAM      | 100     | 0         | 9.58                  | 9.58                     | 9.56                   |                     |          |  |
| Channel               |            |         |           | 20625                 | 21100                    | 21375                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15                    | QPSK       | 1       | 0         | 9.67                  | 9.81                     | 9.67                   | 11                  | 0        |  |
| 15                    | QPSK       | 1       | 37        | 9.78                  | 9.72                     | 9.73                   |                     |          |  |
| 15                    | QPSK       | 1       | 74        | 9.75                  | 9.71                     | 9.70                   |                     |          |  |
| 15                    | QPSK       | 36      | 0         | 9.34                  | 9.47                     | 9.54                   | 11                  | 0        |  |
| 15                    | QPSK       | 36      | 20        | 9.66                  | 9.44                     | 9.50                   |                     |          |  |
| 15                    | QPSK       | 36      | 39        | 9.60                  | 9.49                     | 9.32                   |                     |          |  |
| 15                    | QPSK       | 75      | 0         | 9.48                  | 9.35                     | 9.42                   | 11                  | 0        |  |
| 15                    | 16QAM      | 1       | 0         | 9.83                  | 9.84                     | 9.83                   |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 9.88                  | 9.88                     | 9.84                   |                     |          |  |
| 15                    | 16QAM      | 1       | 74        | 9.93                  | 9.91                     | 9.84                   | 11                  | 0        |  |
| 15                    | 16QAM      | 36      | 0         | 9.57                  | 9.57                     | 9.57                   |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 9.65                  | 9.61                     | 9.64                   |                     |          |  |
| 15                    | 16QAM      | 36      | 39        | 9.64                  | 9.56                     | 9.55                   | 11                  | 0        |  |
| 15                    | 16QAM      | 75      | 0         | 9.62                  | 9.57                     | 9.58                   |                     |          |  |
| 15                    | 64QAM      | 1       | 0         | 9.70                  | 9.74                     | 9.67                   |                     |          |  |
| 15                    | 64QAM      | 1       | 37        | 9.73                  | 9.77                     | 9.67                   | 11                  | 0        |  |
| 15                    | 64QAM      | 1       | 74        | 9.79                  | 9.78                     | 9.73                   |                     |          |  |
| 15                    | 64QAM      | 36      | 0         | 9.56                  | 9.58                     | 9.60                   |                     |          |  |
| 15                    | 64QAM      | 36      | 20        | 9.64                  | 9.61                     | 9.67                   | 11                  | 0        |  |
| 15                    | 64QAM      | 36      | 39        | 9.64                  | 9.57                     | 9.60                   |                     |          |  |
| 15                    | 64QAM      | 75      | 0         | 9.62                  | 9.58                     | 9.64                   |                     |          |  |
| Channel               |            |         |           | 20600                 | 21100                    | 21400                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10                    | QPSK       | 1       | 0         | 9.50                  | 9.53                     | 9.45                   | 11                  | 0        |  |
| 10                    | QPSK       | 1       | 25        | 9.46                  | 9.55                     | 9.47                   |                     |          |  |
| 10                    | QPSK       | 1       | 49        | 9.54                  | 9.59                     | 9.50                   |                     |          |  |
| 10                    | QPSK       | 25      | 0         | 9.62                  | 9.65                     | 9.61                   | 11                  | 0        |  |
| 10                    | QPSK       | 25      | 12        | 9.64                  | 9.69                     | 9.60                   |                     |          |  |
| 10                    | QPSK       | 25      | 25        | 9.69                  | 9.67                     | 9.59                   |                     |          |  |
| 10                    | QPSK       | 50      | 0         | 9.61                  | 9.56                     | 9.53                   | 11                  | 0        |  |
| 10                    | 16QAM      | 1       | 0         | 9.89                  | 9.95                     | 9.84                   |                     |          |  |
| 10                    | 16QAM      | 1       | 25        | 9.91                  | 9.96                     | 9.84                   |                     |          |  |
| 10                    | 16QAM      | 1       | 49        | 9.95                  | 9.95                     | 9.91                   | 11                  | 0        |  |
| 10                    | 16QAM      | 25      | 0         | 9.67                  | 9.67                     | 9.63                   |                     |          |  |
| 10                    | 16QAM      | 25      | 12        | 9.67                  | 9.71                     | 9.61                   |                     |          |  |
| 10                    | 16QAM      | 25      | 25        | 9.71                  | 9.70                     | 9.61                   | 11                  | 0        |  |
| 10                    | 16QAM      | 50      | 0         | 9.59                  | 9.67                     | 9.53                   |                     |          |  |
| 10                    | 64QAM      | 1       | 0         | 9.90                  | 9.92                     | 9.88                   |                     |          |  |
| 10                    | 64QAM      | 1       | 25        | 9.98                  | 9.93                     | 9.85                   | 11                  | 0        |  |
| 10                    | 64QAM      | 1       | 49        | 9.95                  | 9.96                     | 9.90                   |                     |          |  |
| 10                    | 64QAM      | 25      | 0         | 9.67                  | 9.70                     | 9.63                   |                     |          |  |
| 10                    | 64QAM      | 25      | 12        | 9.66                  | 9.70                     | 9.61                   | 11                  | 0        |  |
| 10                    | 64QAM      | 25      | 25        | 9.66                  | 9.71                     | 9.61                   |                     |          |  |
| 10                    | 64QAM      | 50      | 0         | 9.57                  | 9.55                     | 9.52                   |                     |          |  |
| Channel               |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5                     | QPSK       | 1       | 0         | 9.53                  | 9.55                     | 9.52                   | 11                  | 0        |  |
| 5                     | QPSK       | 1       | 12        | 9.55                  | 9.65                     | 9.55                   |                     |          |  |
| 5                     | QPSK       | 1       | 24        | 9.59                  | 9.63                     | 9.55                   |                     |          |  |
| 5                     | QPSK       | 12      | 0         | 9.62                  | 9.64                     | 9.62                   | 11                  | 0        |  |
| 5                     | QPSK       | 12      | 7         | 9.66                  | 9.74                     | 9.64                   |                     |          |  |
| 5                     | QPSK       | 12      | 13        | 9.66                  | 9.71                     | 9.62                   |                     |          |  |
| 5                     | QPSK       | 25      | 0         | 9.64                  | 9.67                     | 9.57                   | 11                  | 0        |  |
| 5                     | 16QAM      | 1       | 0         | 9.97                  | 9.95                     | 9.90                   |                     |          |  |
| 5                     | 16QAM      | 1       | 12        | 9.92                  | 9.94                     | 9.88                   |                     |          |  |
| 5                     | 16QAM      | 1       | 24        | 9.96                  | 9.96                     | 9.91                   | 11                  | 0        |  |
| 5                     | 16QAM      | 12      | 0         | 9.66                  | 9.67                     | 9.64                   |                     |          |  |
| 5                     | 16QAM      | 12      | 7         | 9.69                  | 9.76                     | 9.68                   |                     |          |  |
| 5                     | 16QAM      | 12      | 13        | 9.67                  | 9.73                     | 9.65                   | 11                  | 0        |  |
| 5                     | 16QAM      | 25      | 0         | 9.66                  | 9.68                     | 9.59                   |                     |          |  |
| 5                     | 64QAM      | 1       | 0         | 9.76                  | 9.80                     | 9.77                   |                     |          |  |
| 5                     | 64QAM      | 1       | 12        | 9.86                  | 9.89                     | 9.83                   | 11                  | 0        |  |
| 5                     | 64QAM      | 1       | 24        | 9.85                  | 9.85                     | 9.78                   |                     |          |  |
| 5                     | 64QAM      | 12      | 0         | 9.65                  | 9.65                     | 9.62                   |                     |          |  |
| 5                     | 64QAM      | 12      | 7         | 9.69                  | 9.74                     | 9.66                   | 11                  | 0        |  |
| 5                     | 64QAM      | 12      | 13        | 9.64                  | 9.71                     | 9.63                   |                     |          |  |
| 5                     | 64QAM      | 25      | 0         | 9.68                  | 9.68                     | 9.59                   |                     |          |  |

| Band 12 (700MHz Low Band)         |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|--|--|
| Part 27(Only on channel required) |            |         |           |                       |                          |                        |                     |          |                     |          |  |  |
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| Channel                           |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |                     |          |  |  |
| Frequency (MHz)                   |            |         |           | 704                   | 707.5                    | 711                    |                     |          |                     |          |  |  |
| 10                                | QPSK       | 1       | 0         | 19.74                 | 19.82                    | 19.72                  | 21                  | 0        |                     |          |  |  |
| 10                                | QPSK       | 1       | 25        | 19.73                 | 19.73                    | 19.76                  |                     |          |                     |          |  |  |
| 10                                | QPSK       | 1       | 49        | 19.61                 | 19.66                    | 19.77                  |                     |          |                     |          |  |  |
| 10                                | QPSK       | 25      | 0         | 19.57                 | 19.79                    | 19.64                  | 21                  | 0        |                     |          |  |  |
| 10                                | QPSK       | 25      | 12        | 19.61                 | 19.62                    | 19.58                  |                     |          |                     |          |  |  |
| 10                                | QPSK       | 25      | 25        | 19.76                 | 19.64                    | 19.69                  |                     |          |                     |          |  |  |
| 10                                | QPSK       | 50      | 0         | 19.57                 | 19.72                    | 19.64                  | 21                  | 0        |                     |          |  |  |
| 10                                | 16QAM      | 1       | 0         | 19.50                 | 19.50                    | 19.80                  |                     |          |                     |          |  |  |
| 10                                | 16QAM      | 1       | 25        | 19.81                 | 19.79                    | 19.80                  |                     |          |                     |          |  |  |
| 10                                | 16QAM      | 1       | 49        | 19.41                 | 19.76                    | 19.75                  | 21                  | 0        |                     |          |  |  |
| 10                                | 16QAM      | 25      | 0         | 19.45                 | 19.41                    | 19.38                  |                     |          |                     |          |  |  |
| 10                                | 16QAM      | 25      | 12        | 19.62                 | 19.54                    | 19.59                  |                     |          |                     |          |  |  |
| 10                                | 16QAM      | 25      | 25        | 19.49                 | 19.47                    | 19.51                  | 21                  | 0        |                     |          |  |  |
| 10                                | 16QAM      | 50      | 0         | 19.55                 | 19.53                    | 19.54                  |                     |          |                     |          |  |  |
| 10                                | 64QAM      | 1       | 0         | 19.53                 | 19.54                    | 19.58                  |                     |          |                     |          |  |  |
| 10                                | 64QAM      | 1       | 25        | 19.49                 | 19.50                    | 19.51                  | 21                  | 0        |                     |          |  |  |
| 10                                | 64QAM      | 1       | 49        | 19.55                 | 19.50                    | 19.54                  |                     |          |                     |          |  |  |
| 10                                | 64QAM      | 25      | 0         | 19.47                 | 19.43                    | 19.38                  |                     |          |                     |          |  |  |
| 10                                | 64QAM      | 25      | 12        | 19.63                 | 19.53                    | 19.43                  | 21                  | 0        |                     |          |  |  |
| 10                                | 64QAM      | 25      | 25        | 19.55                 | 19.51                    | 19.50                  |                     |          |                     |          |  |  |
| 10                                | 64QAM      | 50      | 0         | 19.54                 | 19.53                    | 19.49                  |                     |          |                     |          |  |  |
| Channel                           |            |         |           | 23035                 | 23095                    | 23155                  | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| Frequency (MHz)                   |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |          |                     |          |  |  |
| 5                                 | QPSK       | 1       | 0         | 19.06                 | 19.00                    | 19.03                  | 21                  | 0        |                     |          |  |  |
| 5                                 | QPSK       | 1       | 12        | 19.16                 | 19.13                    | 19.08                  |                     |          |                     |          |  |  |
| 5                                 | QPSK       | 1       | 24        | 19.11                 | 19.09                    | 19.05                  |                     |          |                     |          |  |  |
| 5                                 | QPSK       | 12      | 0         | 19.21                 | 19.16                    | 19.13                  | 21                  | 0        |                     |          |  |  |
| 5                                 | QPSK       | 12      | 7         | 19.28                 | 19.22                    | 19.19                  |                     |          |                     |          |  |  |
| 5                                 | QPSK       | 12      | 13        | 19.25                 | 19.18                    | 19.13                  |                     |          |                     |          |  |  |
| 5                                 | QPSK       | 25      | 0         | 19.21                 | 19.20                    | 19.09                  | 21                  | 0        |                     |          |  |  |
| 5                                 | 16QAM      | 1       | 0         | 19.46                 | 19.34                    | 19.31                  |                     |          |                     |          |  |  |
| 5                                 | 16QAM      | 1       | 12        | 19.40                 | 19.37                    | 19.34                  |                     |          |                     |          |  |  |
| 5                                 | 16QAM      | 1       | 24        | 19.42                 | 19.37                    | 19.33                  | 21                  | 0        |                     |          |  |  |
| 5                                 | 16QAM      | 12      | 0         | 19.24                 | 19.20                    | 19.15                  |                     |          |                     |          |  |  |
| 5                                 | 16QAM      | 12      | 7         | 19.30                 | 19.25                    | 19.22                  |                     |          |                     |          |  |  |
| 5                                 | 16QAM      | 12      | 13        | 19.25                 | 19.22                    | 19.18                  | 21                  | 0        |                     |          |  |  |
| 5                                 | 64QAM      | 1       | 0         | 19.36                 | 19.26                    | 19.24                  |                     |          |                     |          |  |  |
| 5                                 | 64QAM      | 1       | 12        | 19.31                 | 19.31                    | 19.24                  |                     |          |                     |          |  |  |
| 5                                 | 64QAM      | 1       | 24        | 19.36                 | 19.28                    | 19.32                  | 21                  | 0        |                     |          |  |  |
| 5                                 | 64QAM      | 12      | 0         | 19.21                 | 19.19                    | 19.15                  |                     |          |                     |          |  |  |
| 5                                 | 64QAM      | 12      | 7         | 19.27                 | 19.25                    | 19.19                  |                     |          |                     |          |  |  |
| 5                                 | 64QAM      | 12      | 13        | 19.22                 | 19.19                    | 19.15                  | 21                  | 0        |                     |          |  |  |
| 5                                 | 64QAM      | 25      | 0         | 19.28                 | 19.20                    | 19.11                  |                     |          |                     |          |  |  |
| Channel                           |            |         |           | 23025                 | 23095                    | 23165                  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)                   |            |         |           | 700.5                 | 707.5                    | 714.5                  |                     |          |                     |          |  |  |
| 3                                 | QPSK       | 1       | 0         | 19.14                 | 19.19                    | 19.20                  | 21                  | 0        |                     |          |  |  |
| 3                                 | QPSK       | 1       | 8         | 19.32                 | 19.33                    | 19.27                  |                     |          |                     |          |  |  |
| 3                                 | QPSK       | 1       | 14        | 19.20                 | 19.26                    | 19.19                  |                     |          |                     |          |  |  |
| 3                                 | QPSK       | 8       | 0         | 19.43                 | 19.31                    | 19.26                  | 21                  | 0        |                     |          |  |  |
| 3                                 | QPSK       | 8       | 4         | 19.42                 | 19.37                    | 19.35                  |                     |          |                     |          |  |  |
| 3                                 | QPSK       | 8       | 7         | 19.39                 | 19.33                    | 19.30                  |                     |          |                     |          |  |  |
| 3                                 | QPSK       | 15      | 0         | 19.38                 | 19.35                    | 19.23                  | 21                  | 0        |                     |          |  |  |
| 3                                 | 16QAM      | 1       | 0         | 19.64                 | 19.51                    | 19.53                  |                     |          |                     |          |  |  |
| 3                                 | 16QAM      | 1       | 8         | 19.66                 | 19.61                    | 19.50                  |                     |          |                     |          |  |  |
| 3                                 | 16QAM      | 1       | 14        | 19.64                 | 19.57                    | 19.51                  | 21                  | 0        |                     |          |  |  |
| 3                                 | 16QAM      | 8       | 0         | 19.48                 | 19.37                    | 19.32                  |                     |          |                     |          |  |  |
| 3                                 | 16QAM      | 8       | 4         | 19.51                 | 19.47                    | 19.41                  |                     |          |                     |          |  |  |
| 3                                 | 16QAM      | 8       | 7         | 19.47                 | 19.43                    | 19.35                  | 21                  | 0        |                     |          |  |  |
| 3                                 | 16QAM      | 15      | 0         | 19.45                 | 19.40                    | 19.30                  |                     |          |                     |          |  |  |
| 3                                 | 64QAM      | 1       | 0         | 19.61                 | 19.46                    | 19.46                  |                     |          |                     |          |  |  |
| 3                                 | 64QAM      | 1       | 8         | 19.56                 | 19.55                    | 19.52                  | 21                  | 0        |                     |          |  |  |
| 3                                 | 64QAM      | 1       | 14        | 19.59                 | 19.51                    | 19.43                  |                     |          |                     |          |  |  |
| 3                                 | 64QAM      | 8       | 0         | 19.42                 | 19.34                    | 19.30                  |                     |          |                     |          |  |  |
| 3                                 | 64QAM      | 8       | 4         | 19.45                 | 19.42                    | 19.39                  | 21                  | 0        |                     |          |  |  |
| 3                                 | 64QAM      | 8       | 7         | 19.43                 | 19.40                    | 19.33                  |                     |          |                     |          |  |  |
| 3                                 | 64QAM      | 15      | 0         | 19.41                 | 19.36                    | 19.28                  |                     |          |                     |          |  |  |
| Channel                           |            |         |           | 23017                 | 23095                    | 23173                  | Tune-up limit (dBm) | MPR (dB) |                     |          |  |  |
| Frequency (MHz)                   |            |         |           | 697.7                 | 707.5                    | 715.3                  |                     |          |                     |          |  |  |
| 1.4                               | QPSK       | 1       | 0         | 19.46                 | 19.34                    | 19.24                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | QPSK       | 1       | 3         | 19.51                 | 19.46                    | 19.35                  |                     |          |                     |          |  |  |
| 1.4                               | QPSK       | 1       | 5         | 19.23                 | 19.34                    | 19.47                  |                     |          |                     |          |  |  |
| 1.4                               | QPSK       | 3       | 0         | 19.53                 | 19.46                    | 19.53                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | QPSK       | 3       | 1         | 19.47                 | 19.42                    | 19.59                  |                     |          |                     |          |  |  |
| 1.4                               | QPSK       | 3       | 3         | 19.32                 | 19.50                    | 19.49                  |                     |          |                     |          |  |  |
| 1.4                               | QPSK       | 6       | 0         | 19.33                 | 19.16                    | 19.12                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | 16QAM      | 1       | 0         | 19.29                 | 19.42                    | 19.41                  |                     |          |                     |          |  |  |
| 1.4                               | 16QAM      | 1       | 3         | 19.46                 | 19.32                    | 19.35                  |                     |          |                     |          |  |  |
| 1.4                               | 16QAM      | 1       | 5         | 19.46                 | 19.52                    | 19.32                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | 16QAM      | 3       | 0         | 19.26                 | 19.29                    | 19.30                  |                     |          |                     |          |  |  |
| 1.4                               | 16QAM      | 3       | 1         | 19.41                 | 19.23                    | 19.16                  |                     |          |                     |          |  |  |
| 1.4                               | 16QAM      | 3       | 3         | 19.39                 | 19.17                    | 19.18                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | 16QAM      | 6       | 0         | 19.27                 | 19.36                    | 19.18                  |                     |          |                     |          |  |  |
| 1.4                               | 64QAM      | 1       | 0         | 19.27                 | 19.46                    | 19.45                  |                     |          |                     |          |  |  |
| 1.4                               | 64QAM      | 1       | 3         | 19.12                 | 19.50                    | 19.38                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | 64QAM      | 1       | 5         | 19.57                 | 19.51                    | 19.31                  |                     |          |                     |          |  |  |
| 1.4                               | 64QAM      | 3       | 0         | 19.44                 | 19.12                    | 19.42                  |                     |          |                     |          |  |  |
| 1.4                               | 64QAM      | 3       | 1         | 19.26                 | 19.33                    | 19.32                  | 21                  | 0        |                     |          |  |  |
| 1.4                               | 64QAM      | 3       | 3         | 19.34                 | 19.33                    | 19.25                  |                     |          |                     |          |  |  |
| 1.4                               | 64QAM      | 6       | 0         | 19.33                 | 19.31                    | 19.41                  |                     |          |                     |          |  |  |

## Reduced Power Mode for Handheld (EN-DC)

| Band 2 (1900MHz Band)<br>Part 24E |            |         |           |                               |                            |                          |                           |             |          |  |
|-----------------------------------|------------|---------|-----------|-------------------------------|----------------------------|--------------------------|---------------------------|-------------|----------|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low<br>Ch./ Freq.       | Power Middle<br>Ch./ Freq. | Power High<br>Ch./ Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |          |  |
| Channel                           |            |         |           |                               |                            |                          |                           |             |          |  |
| Frequency (MHz)                   |            |         |           |                               |                            |                          |                           |             |          |  |
| 1870 1880 1890 1900 1910          |            |         |           |                               |                            |                          |                           |             |          |  |
| 20                                | QPSK       | 1       | 0         | 15.69                         | 15.88                      | 15.77                    | 16.5                      | 0           |          |  |
| 20                                | QPSK       | 1       | 49        | 15.58                         | 15.76                      | 15.68                    |                           |             |          |  |
| 20                                | QPSK       | 1       | 99        | 15.52                         | 15.65                      | 15.54                    |                           |             |          |  |
| 20                                | QPSK       | 50      | 0         | 15.67                         | 15.81                      | 15.66                    | 16.5                      | 0           |          |  |
| 20                                | QPSK       | 50      | 24        | 15.78                         | 15.75                      | 15.40                    |                           |             |          |  |
| 20                                | QPSK       | 50      | 50        | 15.66                         | 15.74                      | 15.73                    |                           |             |          |  |
| 20                                | QPSK       | 100     | 0         | 15.72                         | 15.77                      | 15.69                    | 16.5                      | 0           |          |  |
| 20                                | 16QAM      | 1       | 0         | 15.73                         | 15.74                      | 15.77                    |                           |             |          |  |
| 20                                | 16QAM      | 1       | 49        | 15.68                         | 15.73                      | 15.65                    |                           |             |          |  |
| 20                                | 16QAM      | 1       | 99        | 15.58                         | 15.59                      | 15.43                    | 16.5                      | 0           |          |  |
| 20                                | 16QAM      | 50      | 0         | 15.37                         | 15.46                      | 15.36                    |                           |             |          |  |
| 20                                | 16QAM      | 50      | 24        | 15.50                         | 15.50                      | 15.42                    |                           |             |          |  |
| 20                                | 16QAM      | 50      | 50        | 15.39                         | 15.53                      | 15.42                    | 16.5                      | 0           |          |  |
| 20                                | 16QAM      | 100     | 0         | 15.41                         | 15.41                      | 15.34                    |                           |             |          |  |
| 20                                | 64QAM      | 1       | 0         | 15.86                         | 15.65                      | 15.59                    | 16.5                      | 0           |          |  |
| 20                                | 64QAM      | 1       | 49        | 15.56                         | 15.41                      | 15.51                    |                           |             |          |  |
| 20                                | 64QAM      | 1       | 99        | 15.46                         | 15.48                      | 15.64                    |                           |             |          |  |
| 20                                | 64QAM      | 50      | 0         | 15.38                         | 15.41                      | 15.36                    | 16.5                      | 0           |          |  |
| 20                                | 64QAM      | 50      | 24        | 15.48                         | 15.49                      | 15.44                    |                           |             |          |  |
| 20                                | 64QAM      | 50      | 50        | 15.39                         | 15.53                      | 15.44                    |                           |             |          |  |
| 20                                | 64QAM      | 100     | 0         | 15.42                         | 15.42                      | 15.35                    | 16.5                      | 0           |          |  |
| Channel                           |            |         |           | 18675 18850 18900 19025 19125 |                            |                          | Tune-up limit (dBm)       |             | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           |                               |                            |                          |                           |             |          |  |
| 15                                | QPSK       | 1       | 0         | 15.32                         | 15.48                      | 15.47                    | 16.5                      | 0           |          |  |
| 15                                | QPSK       | 1       | 37        | 15.36                         | 15.44                      | 15.31                    |                           |             |          |  |
| 15                                | QPSK       | 1       | 74        | 15.34                         | 15.41                      | 15.22                    |                           |             |          |  |
| 15                                | QPSK       | 36      | 0         | 15.46                         | 15.38                      | 15.48                    | 16.5                      | 0           |          |  |
| 15                                | QPSK       | 36      | 20        | 15.42                         | 15.62                      | 15.50                    |                           |             |          |  |
| 15                                | QPSK       | 36      | 39        | 15.52                         | 15.63                      | 15.57                    |                           |             |          |  |
| 15                                | QPSK       | 75      | 0         | 15.38                         | 15.52                      | 15.48                    | 16.5                      | 0           |          |  |
| 15                                | 16QAM      | 1       | 0         | 15.72                         | 15.67                      | 15.70                    |                           |             |          |  |
| 15                                | 16QAM      | 1       | 37        | 15.55                         | 15.53                      | 15.46                    |                           |             |          |  |
| 15                                | 16QAM      | 1       | 74        | 15.40                         | 15.39                      | 15.32                    | 16.5                      | 0           |          |  |
| 15                                | 16QAM      | 36      | 0         | 15.23                         | 15.24                      | 15.30                    |                           |             |          |  |
| 15                                | 16QAM      | 36      | 20        | 15.41                         | 15.42                      | 15.27                    |                           |             |          |  |
| 15                                | 16QAM      | 36      | 39        | 15.39                         | 15.43                      | 15.23                    | 16.5                      | 0           |          |  |
| 15                                | 16QAM      | 75      | 0         | 15.38                         | 15.24                      | 15.32                    |                           |             |          |  |
| 15                                | 64QAM      | 1       | 0         | 15.74                         | 15.45                      | 15.49                    |                           |             |          |  |
| 15                                | 64QAM      | 1       | 37        | 15.39                         | 15.38                      | 15.44                    | 16.5                      | 0           |          |  |
| 15                                | 64QAM      | 1       | 74        | 15.37                         | 15.48                      | 15.50                    |                           |             |          |  |
| 15                                | 64QAM      | 36      | 0         | 15.20                         | 15.41                      | 15.32                    |                           |             |          |  |
| 15                                | 64QAM      | 36      | 20        | 15.45                         | 15.46                      | 15.33                    | 16.5                      | 0           |          |  |
| 15                                | 64QAM      | 36      | 39        | 15.28                         | 15.36                      | 15.38                    |                           |             |          |  |
| 15                                | 64QAM      | 75      | 0         | 15.30                         | 15.29                      | 15.19                    |                           |             |          |  |
| Channel                           |            |         |           | 18650 18850 18900 19150       |                            |                          | Tune-up limit (dBm)       |             | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           |                               |                            |                          |                           |             |          |  |
| 10                                | QPSK       | 1       | 0         | 15.45                         | 15.65                      | 15.49                    | 16.5                      | 0           |          |  |
| 10                                | QPSK       | 1       | 25        | 15.22                         | 15.47                      | 15.50                    |                           |             |          |  |
| 10                                | QPSK       | 1       | 49        | 15.32                         | 15.37                      | 15.23                    |                           |             |          |  |
| 10                                | QPSK       | 25      | 0         | 15.50                         | 15.52                      | 15.46                    | 16.5                      | 0           |          |  |
| 10                                | QPSK       | 25      | 12        | 15.47                         | 15.60                      | 15.51                    |                           |             |          |  |
| 10                                | QPSK       | 25      | 25        | 15.37                         | 15.55                      | 15.46                    |                           |             |          |  |
| 10                                | QPSK       | 50      | 0         | 15.50                         | 15.54                      | 15.34                    | 16.5                      | 0           |          |  |
| 10                                | 16QAM      | 1       | 0         | 15.78                         | 15.68                      | 15.70                    |                           |             |          |  |
| 10                                | 16QAM      | 1       | 25        | 15.56                         | 15.53                      | 15.60                    |                           |             |          |  |
| 10                                | 16QAM      | 1       | 49        | 15.58                         | 15.49                      | 15.43                    | 16.5                      | 0           |          |  |
| 10                                | 16QAM      | 25      | 0         | 15.33                         | 15.35                      | 15.20                    |                           |             |          |  |
| 10                                | 16QAM      | 25      | 12        | 15.33                         | 15.40                      | 15.35                    |                           |             |          |  |
| 10                                | 16QAM      | 25      | 25        | 15.30                         | 15.41                      | 15.29                    | 16.5                      | 0           |          |  |
| 10                                | 16QAM      | 50      | 0         | 15.28                         | 15.39                      | 15.33                    |                           |             |          |  |
| 10                                | 64QAM      | 1       | 0         | 15.75                         | 15.63                      | 15.44                    |                           |             |          |  |
| 10                                | 64QAM      | 1       | 25        | 15.48                         | 15.32                      | 15.34                    | 16.5                      | 0           |          |  |
| 10                                | 64QAM      | 1       | 49        | 15.33                         | 15.44                      | 15.47                    |                           |             |          |  |
| 10                                | 64QAM      | 25      | 0         | 15.27                         | 15.19                      | 15.32                    |                           |             |          |  |
| 10                                | 64QAM      | 25      | 12        | 15.27                         | 15.46                      | 15.36                    | 16.5                      | 0           |          |  |
| 10                                | 64QAM      | 25      | 25        | 15.29                         | 15.51                      | 15.28                    |                           |             |          |  |
| 10                                | 64QAM      | 50      | 0         | 15.24                         | 15.40                      | 15.13                    |                           |             |          |  |
| Channel                           |            |         |           | 18625 18850 18900 19175       |                            |                          | Tune-up limit (dBm)       |             | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           |                               |                            |                          |                           |             |          |  |
| 5                                 | QPSK       | 1       | 0         | 15.42                         | 15.61                      | 15.50                    | 16.5                      | 0           |          |  |
| 5                                 | QPSK       | 1       | 12        | 15.44                         | 15.71                      | 15.53                    |                           |             |          |  |
| 5                                 | QPSK       | 1       | 24        | 15.50                         | 15.54                      | 15.34                    |                           |             |          |  |
| 5                                 | QPSK       | 12      | 0         | 15.62                         | 15.75                      | 15.62                    | 16.5                      | 0           |          |  |
| 5                                 | QPSK       | 12      | 7         | 15.75                         | 15.71                      | 15.64                    |                           |             |          |  |
| 5                                 | QPSK       | 12      | 13        | 15.64                         | 15.71                      | 15.52                    |                           |             |          |  |
| 5                                 | QPSK       | 25      | 0         | 15.73                         | 15.71                      | 15.62                    | 16.5                      | 0           |          |  |
| 5                                 | 16QAM      | 1       | 0         | 15.77                         | 15.62                      | 15.70                    |                           |             |          |  |
| 5                                 | 16QAM      | 1       | 12        | 15.77                         | 15.77                      | 15.71                    |                           |             |          |  |
| 5                                 | 16QAM      | 1       | 24        | 15.71                         | 15.70                      | 15.79                    | 16.5                      | 0           |          |  |
| 5                                 | 16QAM      | 12      | 0         | 15.80                         | 15.77                      | 15.68                    |                           |             |          |  |
| 5                                 | 16QAM      | 12      | 7         | 15.77                         | 15.74                      | 15.66                    |                           |             |          |  |
| 5                                 | 16QAM      | 12      | 13        | 15.69                         | 15.72                      | 15.58                    | 16.5                      | 0           |          |  |
| 5                                 | 16QAM      | 25      | 0         | 15.73                         | 15.68                      | 15.58                    |                           |             |          |  |
| 5                                 | 64QAM      | 1       | 0         | 15.70                         | 15.77                      | 15.78                    |                           |             |          |  |
| 5                                 | 64QAM      | 1       | 12        | 15.70                         | 15.68                      | 15.81                    | 16.5                      | 0           |          |  |
| 5                                 | 64QAM      | 1       | 24        | 15.69                         | 15.77                      | 15.64                    |                           |             |          |  |
| 5                                 | 64QAM      | 12      | 0         | 15.77                         | 15.70                      | 15.68                    |                           |             |          |  |
| 5                                 | 64QAM      | 12      | 7         | 15.77                         | 15.70                      | 15.65                    | 16.5                      | 0           |          |  |
| 5                                 | 64QAM      | 12      | 13        | 15.66                         | 15.67                      | 15.55                    |                           |             |          |  |
| 5                                 | 64QAM      | 25      | 0         | 15.74                         | 15.67                      | 15.61                    |                           |             |          |  |
| Channel                           |            |         |           | 18605 18815 18900 19195       |                            |                          | Tune-up limit (dBm)       |             | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           |                               |                            |                          |                           |             |          |  |
| 3                                 | QPSK       | 1       | 0         | 15.46                         | 15.63                      | 15.57                    | 16.5                      | 0           |          |  |
| 3                                 | QPSK       | 1       | 8         | 15.47                         | 15.64                      | 15.59                    |                           |             |          |  |
| 3                                 | QPSK       | 1       | 14        | 15.56                         | 15.53                      | 15.37                    |                           |             |          |  |
| 3                                 | QPSK       | 8       | 0         | 15.73                         | 15.76                      | 15.58                    | 16.5                      | 0           |          |  |
| 3                                 | QPSK       | 8       | 4         | 15.70                         | 15.53                      | 15.68                    |                           |             |          |  |
| 3                                 | QPSK       | 8       | 7         | 15.51                         | 15.71                      | 15.45                    |                           |             |          |  |
| 3                                 | QPSK       | 15      | 0         | 15.69                         | 15.66                      | 15.60                    | 16.5                      | 0           |          |  |
| 3                                 | 16QAM      | 1       | 0         | 15.72                         | 15.77                      | 15.68                    |                           |             |          |  |
| 3                                 | 16QAM      | 1       | 8         | 15.60                         | 15.60                      | 15.68                    |                           |             |          |  |
| 3                                 | 16QAM      | 1       | 14        | 15.70                         | 15.68                      | 15.76                    | 16.5                      | 0           |          |  |
| 3                                 | 16QAM      | 8       | 0         | 15.72                         | 15.63                      | 15.64                    |                           |             |          |  |
| 3                                 | 16QAM      | 8       | 4         | 15.65                         | 15.74                      | 15.52                    |                           |             |          |  |
| 3                                 | 16QAM      | 8       | 7         | 15.71                         | 15.73                      | 15.43                    | 16.5                      | 0           |          |  |
| 3                                 | 16QAM      | 15      | 0         | 15.59                         | 15.59                      | 15.54                    |                           |             |          |  |
| 3                                 | 64QAM      | 1       | 0         | 15.68                         | 15.73                      | 15.68                    |                           |             |          |  |
| 3                                 | 64QAM      | 1       | 8         | 15.73                         | 15.68                      | 15.69                    | 16.5                      | 0           |          |  |
| 3                                 | 64QAM      | 1       | 14        | 15.66                         | 15.66                      | 15.50                    |                           |             |          |  |
| 3                                 | 64QAM      | 8       | 0         | 15.75                         | 15.75                      | 15.68                    |                           |             |          |  |
| 3                                 | 64QAM      | 8       | 4         | 15.74                         | 15.52                      | 15.49                    | 16.5                      | 0           |          |  |
| 3                                 | 64QAM      | 8       | 7         | 15.56                         | 15.59                      | 15.61                    |                           |             |          |  |
| 3                                 | 64QAM      | 15      | 0         | 15.56                         | 15.74                      | 15.55                    |                           |             |          |  |
| Channel                           |            |         |           | 18505 18675 18800 19031       |                            |                          | Tune-up limit (dBm)       |             | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           |                               |                            |                          |                           |             |          |  |
| 1.4                               | QPSK       | 1       | 0         | 15.35                         | 15.63                      | 15.31                    | 16.5                      | 0           |          |  |
| 1.4                               | QPSK       | 1       | 3         | 15.41                         | 15.61                      | 15.43                    |                           |             |          |  |
| 1.4                               | QPSK       | 1       | 5         | 15.29                         | 15.32                      | 15.37                    |                           |             |          |  |
| 1.4                               | QPSK       | 3       | 0         | 15.60                         | 15.65                      | 15.56                    | 16.5                      | 0           |          |  |
| 1.4                               | QPSK       | 3       | 1         | 15.70                         | 15.66                      | 15.64                    |                           |             |          |  |
| 1.4                               | QPSK       | 3       | 3         | 15.61                         | 15.70                      | 15.43                    |                           |             |          |  |
| 1.4                               | QPSK       | 6       | 0         | 15.61                         | 15.58                      | 15.54                    | 16.5                      | 0           |          |  |
| 1.4                               | QPSK       | 6       | 1         | 15.79                         | 15.75                      | 15.72                    |                           |             |          |  |
| 1.4                               | 16QAM      | 1       | 0         | 15.47                         | 15.73                      | 15.54                    |                           |             |          |  |
| 1.4                               | 16QAM      | 1       | 3         | 15.71                         | 15.79                      | 15.71                    | 16.5                      | 0           |          |  |
| 1.4                               | 16QAM      | 1       | 5         | 15.66                         | 15.71                      | 15.70                    |                           |             |          |  |
| 1.4                               | 16QAM      | 3       | 0         | 15.63                         | 15.72                      | 15.69                    |                           |             |          |  |
| 1.4                               | 16QAM      | 3       | 1         | 15.71                         | 15.55                      | 15.54                    | 16.5                      | 0           |          |  |
| 1.4                               | 16QAM      | 3       | 3         | 15.52                         | 15.54                      | 15.50                    |                           |             |          |  |
| 1.4                               | 16QAM      | 3       | 5         | 15.55                         | 15.60                      | 15.62                    |                           |             |          |  |
| 1.4                               | 16QAM      | 6       | 0         | 15.57                         | 15.59                      | 15.54                    | 16.5                      | 0           |          |  |
| 1.4                               | 16QAM      | 6       | 1         | 15.57                         | 15.57                      | 15.53                    |                           |             |          |  |
| 1.4                               | 16QAM      | 6       | 3         | 15.59                         | 15.61                      | 15.59                    |                           |             |          |  |

| Band 7 (2600MHz Band)<br>Part 27 |            |         |           |                          |                             |                           |                           |             |        |
|----------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--------|
| BW (MHz)                         | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |        |
| Channel                          |            |         |           |                          |                             |                           |                           |             |        |
| Frequency (MHz)                  |            |         |           |                          |                             |                           | 20850                     | 21100       | 21350  |
|                                  |            |         |           |                          |                             |                           | 2535                      | 2555        | 2590   |
| 20                               | QPSK       | 1       | 0         | 16.43                    | 16.50                       | 16.35                     | 17.5                      | 0           |        |
| 20                               | QPSK       | 1       | 49        | 16.12                    | 16.16                       | 16.22                     |                           |             |        |
| 20                               | QPSK       | 1       | 99        | 16.23                    | 16.22                       | 16.27                     |                           |             |        |
| 20                               | QPSK       | 50      | 0         | 16.09                    | 16.42                       | 16.22                     |                           |             |        |
| 20                               | QPSK       | 50      | 24        | 16.31                    | 16.28                       | 16.31                     | 17.5                      | 0           |        |
| 20                               | QPSK       | 50      | 50        | 16.28                    | 16.28                       | 16.28                     |                           |             |        |
| 20                               | QPSK       | 100     | 0         | 16.15                    | 16.21                       | 16.19                     |                           |             |        |
| 20                               | 16QAM      | 1       | 0         | 16.30                    | 16.27                       | 16.36                     |                           |             |        |
| 20                               | 16QAM      | 1       | 49        | 16.35                    | 16.36                       | 16.40                     | 17.5                      | 0           |        |
| 20                               | 16QAM      | 1       | 99        | 16.40                    | 16.41                       | 16.38                     |                           |             |        |
| 20                               | 16QAM      | 50      | 0         | 15.97                    | 16.05                       | 16.12                     |                           |             |        |
| 20                               | 16QAM      | 50      | 24        | 16.15                    | 16.12                       | 16.16                     |                           |             |        |
| 20                               | 16QAM      | 50      | 50        | 16.13                    | 16.13                       | 16.13                     | 17.5                      | 0           |        |
| 20                               | 16QAM      | 100     | 0         | 16.09                    | 16.04                       | 16.06                     |                           |             |        |
| 20                               | 64QAM      | 1       | 0         | 16.22                    | 16.22                       | 16.36                     |                           |             |        |
| 20                               | 64QAM      | 1       | 49        | 16.33                    | 16.29                       | 16.36                     |                           |             |        |
| 20                               | 64QAM      | 1       | 99        | 16.23                    | 16.41                       | 16.41                     | 17.5                      | 0           |        |
| 20                               | 64QAM      | 50      | 0         | 15.92                    | 16.03                       | 16.11                     |                           |             |        |
| 20                               | 64QAM      | 50      | 24        | 16.14                    | 16.10                       | 16.15                     |                           |             |        |
| 20                               | 64QAM      | 50      | 50        | 16.11                    | 16.13                       | 16.14                     |                           |             |        |
| 20                               | 64QAM      | 100     | 0         | 16.09                    | 16.05                       | 16.07                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |        |
| Channel                          |            |         |           |                          |                             |                           | 20825                     | 21100       | 21375  |
| Frequency (MHz)                  |            |         |           |                          |                             |                           | 2527.5                    | 2535        | 2562.5 |
| 15                               | QPSK       | 1       | 0         | 15.96                    | 15.97                       | 16.04                     | 17.5                      | 0           |        |
| 15                               | QPSK       | 1       | 37        | 15.94                    | 16.01                       | 16.09                     |                           |             |        |
| 15                               | QPSK       | 1       | 74        | 16.04                    | 16.09                       | 16.14                     |                           |             |        |
| 15                               | QPSK       | 36      | 0         | 16.03                    | 16.06                       | 16.10                     |                           |             |        |
| 15                               | QPSK       | 36      | 20        | 16.11                    | 16.12                       | 16.15                     | 17.5                      | 0           |        |
| 15                               | QPSK       | 36      | 39        | 16.10                    | 16.13                       | 16.18                     |                           |             |        |
| 15                               | QPSK       | 75      | 0         | 16.06                    | 16.04                       | 16.13                     |                           |             |        |
| 15                               | 16QAM      | 1       | 0         | 16.27                    | 16.35                       | 16.38                     |                           |             |        |
| 15                               | 16QAM      | 1       | 37        | 16.34                    | 16.35                       | 16.44                     | 17.5                      | 0           |        |
| 15                               | 16QAM      | 1       | 74        | 16.39                    | 16.40                       | 16.10                     |                           |             |        |
| 15                               | 16QAM      | 36      | 0         | 16.06                    | 16.06                       | 16.10                     |                           |             |        |
| 15                               | 16QAM      | 36      | 20        | 16.15                    | 16.10                       | 16.17                     |                           |             |        |
| 15                               | 16QAM      | 36      | 39        | 16.12                    | 16.15                       | 16.19                     | 17.5                      | 0           |        |
| 15                               | 16QAM      | 75      | 0         | 16.09                    | 16.07                       | 16.12                     |                           |             |        |
| 15                               | 64QAM      | 1       | 0         | 16.23                    | 16.27                       | 16.31                     |                           |             |        |
| 15                               | 64QAM      | 1       | 37        | 16.32                    | 16.28                       | 16.29                     |                           |             |        |
| 15                               | 64QAM      | 1       | 74        | 16.26                    | 16.39                       | 16.39                     | 17.5                      | 0           |        |
| 15                               | 64QAM      | 36      | 0         | 16.03                    | 16.04                       | 16.10                     |                           |             |        |
| 15                               | 64QAM      | 36      | 20        | 16.14                    | 16.11                       | 16.14                     |                           |             |        |
| 15                               | 64QAM      | 36      | 39        | 16.13                    | 16.12                       | 16.22                     |                           |             |        |
| 15                               | 64QAM      | 75      | 0         | 16.11                    | 16.07                       | 16.13                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |        |
| Channel                          |            |         |           |                          |                             |                           | 20800                     | 21100       | 21400  |
| Frequency (MHz)                  |            |         |           |                          |                             |                           | 2505                      | 2535        | 2565   |
| 10                               | QPSK       | 1       | 0         | 16.04                    | 16.04                       | 16.05                     | 17.5                      | 0           |        |
| 10                               | QPSK       | 1       | 25        | 16.06                    | 16.08                       | 16.08                     |                           |             |        |
| 10                               | QPSK       | 1       | 49        | 16.10                    | 16.11                       | 16.16                     |                           |             |        |
| 10                               | QPSK       | 25      | 0         | 16.14                    | 16.16                       | 16.19                     |                           |             |        |
| 10                               | QPSK       | 25      | 12        | 16.19                    | 16.20                       | 16.25                     | 17.5                      | 0           |        |
| 10                               | QPSK       | 25      | 25        | 16.16                    | 16.26                       | 16.21                     |                           |             |        |
| 10                               | QPSK       | 50      | 0         | 16.10                    | 16.09                       | 16.10                     |                           |             |        |
| 10                               | 16QAM      | 1       | 0         | 16.34                    | 16.41                       | 16.42                     |                           |             |        |
| 10                               | 16QAM      | 1       | 25        | 16.42                    | 16.43                       | 16.46                     | 17.5                      | 0           |        |
| 10                               | 16QAM      | 1       | 49        | 16.45                    | 16.45                       | 16.36                     |                           |             |        |
| 10                               | 16QAM      | 25      | 0         | 16.13                    | 16.14                       | 16.14                     |                           |             |        |
| 10                               | 16QAM      | 25      | 12        | 16.19                    | 16.14                       | 16.23                     |                           |             |        |
| 10                               | 16QAM      | 25      | 25        | 16.16                    | 16.20                       | 16.26                     | 17.5                      | 0           |        |
| 10                               | 16QAM      | 50      | 0         | 16.07                    | 16.06                       | 16.05                     |                           |             |        |
| 10                               | 64QAM      | 1       | 0         | 16.36                    | 16.37                       | 16.38                     |                           |             |        |
| 10                               | 64QAM      | 1       | 25        | 16.40                    | 16.43                       | 16.45                     |                           |             |        |
| 10                               | 64QAM      | 1       | 49        | 16.47                    | 16.45                       | 16.43                     | 17.5                      | 0           |        |
| 10                               | 64QAM      | 25      | 0         | 16.15                    | 16.15                       | 16.14                     |                           |             |        |
| 10                               | 64QAM      | 25      | 12        | 16.16                    | 16.11                       | 16.24                     |                           |             |        |
| 10                               | 64QAM      | 25      | 25        | 16.16                    | 16.20                       | 16.23                     |                           |             |        |
| 10                               | 64QAM      | 50      | 0         | 16.05                    | 16.01                       | 16.04                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |        |
| Channel                          |            |         |           |                          |                             |                           | 20775                     | 21100       | 21425  |
| Frequency (MHz)                  |            |         |           |                          |                             |                           | 2526.5                    | 2535        | 2567.5 |
| 5                                | QPSK       | 1       | 0         | 16.07                    | 16.04                       | 16.15                     | 17.5                      | 0           |        |
| 5                                | QPSK       | 1       | 12        | 16.08                    | 16.15                       | 16.21                     |                           |             |        |
| 5                                | QPSK       | 1       | 24        | 16.12                    | 16.18                       | 16.20                     |                           |             |        |
| 5                                | QPSK       | 12      | 0         | 16.14                    | 16.13                       | 16.23                     |                           |             |        |
| 5                                | QPSK       | 12      | 7         | 16.21                    | 16.26                       | 16.28                     | 17.5                      | 0           |        |
| 5                                | QPSK       | 12      | 13        | 16.10                    | 16.21                       | 16.22                     |                           |             |        |
| 5                                | QPSK       | 25      | 0         | 16.13                    | 16.12                       | 16.24                     |                           |             |        |
| 5                                | 16QAM      | 1       | 0         | 16.33                    | 16.41                       | 16.36                     |                           |             |        |
| 5                                | 16QAM      | 1       | 12        | 16.34                    | 16.44                       | 16.41                     | 17.5                      | 0           |        |
| 5                                | 16QAM      | 1       | 24        | 16.39                    | 16.47                       | 16.38                     |                           |             |        |
| 5                                | 16QAM      | 12      | 0         | 16.11                    | 16.16                       | 16.25                     |                           |             |        |
| 5                                | 16QAM      | 12      | 7         | 16.20                    | 16.27                       | 16.30                     |                           |             |        |
| 5                                | 16QAM      | 12      | 13        | 16.10                    | 16.21                       | 16.26                     | 17.5                      | 0           |        |
| 5                                | 16QAM      | 25      | 0         | 16.12                    | 16.14                       | 16.22                     |                           |             |        |
| 5                                | 64QAM      | 1       | 0         | 16.26                    | 16.29                       | 16.40                     |                           |             |        |
| 5                                | 64QAM      | 1       | 12        | 16.27                    | 16.36                       | 16.41                     |                           |             |        |
| 5                                | 64QAM      | 1       | 24        | 16.30                    | 16.37                       | 16.38                     | 17.5                      | 0           |        |
| 5                                | 64QAM      | 12      | 0         | 16.08                    | 16.12                       | 16.18                     |                           |             |        |
| 5                                | 64QAM      | 12      | 7         | 16.12                    | 16.18                       | 16.35                     |                           |             |        |
| 5                                | 64QAM      | 12      | 13        | 16.09                    | 16.19                       | 16.19                     |                           |             |        |
| 5                                | 64QAM      | 25      | 0         | 16.12                    | 16.14                       | 16.21                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |        |

| Band 66         |            |         |           |                          |                             |                           |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1745                     | 1745                        | 1770                      |                           |             |  |
| 20              | QPSK       | 1       | 0         | 15.83                    | 16.15                       | 15.90                     | 17                        | 0           |  |
| 20              | QPSK       | 1       | 49        | 16.03                    | 16.05                       | 15.94                     |                           |             |  |
| 20              | QPSK       | 1       | 99        | 15.79                    | 16.11                       | 15.81                     |                           |             |  |
| 20              | QPSK       | 50      | 0         | 15.98                    | 16.13                       | 16.04                     |                           |             |  |
| 20              | QPSK       | 50      | 24        | 16.02                    | 15.73                       | 16.02                     | 17                        | 0           |  |
| 20              | QPSK       | 50      | 50        | 16.11                    | 16.05                       | 15.96                     |                           |             |  |
| 20              | QPSK       | 100     | 0         | 16.02                    | 16.11                       | 15.95                     |                           |             |  |
| 20              | 16QAM      | 1       | 0         | 16.09                    | 16.13                       | 16.12                     |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 16.13                    | 16.13                       | 16.13                     | 17                        | 0           |  |
| 20              | 16QAM      | 1       | 99        | 16.04                    | 15.85                       | 16.02                     |                           |             |  |
| 20              | 16QAM      | 50      | 0         | 16.01                    | 15.98                       | 15.93                     |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 16.14                    | 16.04                       | 15.92                     |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 16.00                    | 15.90                       | 15.89                     | 17                        | 0           |  |
| 20              | 16QAM      | 100     | 0         | 16.05                    | 15.93                       | 15.82                     |                           |             |  |
| 20              | 64QAM      | 1       | 0         | 15.73                    | 15.91                       | 15.84                     |                           |             |  |
| 20              | 64QAM      | 1       | 49        | 15.96                    | 15.96                       | 15.98                     |                           |             |  |
| 20              | 64QAM      | 1       | 99        | 15.92                    | 15.82                       | 15.88                     | 17                        | 0           |  |
| 20              | 64QAM      | 50      | 0         | 16.05                    | 15.96                       | 15.75                     |                           |             |  |
| 20              | 64QAM      | 50      | 24        | 16.13                    | 16.00                       | 15.82                     |                           |             |  |
| 20              | 64QAM      | 50      | 50        | 15.99                    | 15.90                       | 15.83                     |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 16.06                    | 15.95                       | 15.81                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                           |             |  |
| 15              | QPSK       | 1       | 0         | 15.50                    | 15.46                       | 15.49                     | 17                        | 0           |  |
| 15              | QPSK       | 1       | 37        | 15.66                    | 15.79                       | 15.75                     |                           |             |  |
| 15              | QPSK       | 1       | 74        | 15.49                    | 15.46                       | 15.37                     |                           |             |  |
| 15              | QPSK       | 36      | 0         | 16.09                    | 15.73                       | 15.93                     |                           |             |  |
| 15              | QPSK       | 36      | 20        | 15.95                    | 15.88                       | 16.12                     | 17                        | 0           |  |
| 15              | QPSK       | 36      | 39        | 16.04                    | 15.82                       | 15.76                     | 17                        | 0           |  |
| 15              | QPSK       | 75      | 0         | 15.78                    | 15.67                       | 15.48                     |                           |             |  |
| 15              | 16QAM      | 1       | 0         | 16.11                    | 16.05                       | 16.13                     |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 16.13                    | 16.02                       | 16.13                     |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 16.01                    | 15.99                       | 15.86                     | 17                        | 0           |  |
| 15              | 16QAM      | 36      | 0         | 15.99                    | 15.83                       | 16.00                     |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 15.94                    | 15.72                       | 15.69                     |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 15.77                    | 15.70                       | 15.70                     |                           |             |  |
| 15              | 16QAM      | 75      | 0         | 15.99                    | 16.04                       | 15.70                     | 17                        | 0           |  |
| 15              | 64QAM      | 1       | 0         | 15.79                    | 15.69                       | 15.50                     |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 15.89                    | 15.64                       | 15.86                     |                           |             |  |
| 15              | 64QAM      | 1       | 74        | 15.69                    | 15.52                       | 15.94                     |                           |             |  |
| 15              | 64QAM      | 36      | 0         | 16.00                    | 15.79                       | 15.59                     | 17                        | 0           |  |
| 15              | 64QAM      | 36      | 20        | 16.06                    | 15.56                       | 15.75                     |                           |             |  |
| 15              | 64QAM      | 36      | 39        | 15.68                    | 15.58                       | 15.85                     |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 16.12                    | 15.65                       | 15.89                     |                           |             |  |
| Channel         |            |         |           | 132022                   | 132322                      | 132622                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      |                           |             |  |
| 10              | QPSK       | 1       | 0         | 15.49                    | 15.48                       | 15.74                     | 17                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 15.83                    | 15.63                       | 15.52                     |                           |             |  |
| 10              | QPSK       | 1       | 49        | 15.51                    | 15.54                       | 15.73                     |                           |             |  |
| 10              | QPSK       | 25      | 0         | 15.99                    | 15.86                       | 15.94                     |                           |             |  |
| 10              | QPSK       | 25      | 12        | 16.15                    | 15.83                       | 15.83                     | 17                        | 0           |  |
| 10              | QPSK       | 25      | 25        | 16.00                    | 15.74                       | 15.68                     |                           |             |  |
| 10              | QPSK       | 50      | 0         | 16.04                    | 15.78                       | 15.91                     |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 15.92                    | 16.02                       | 15.81                     |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 16.11                    | 16.14                       | 15.98                     | 17                        | 0           |  |
| 10              | 16QAM      | 1       | 49        | 15.98                    | 15.75                       | 15.97                     |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 15.71                    | 15.98                       | 15.86                     |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 16.09                    | 15.82                       | 15.94                     |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 15.93                    | 15.91                       | 15.81                     | 17                        | 0           |  |
| 10              | 16QAM      | 50      | 0         | 15.79                    | 15.75                       | 15.86                     |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 15.81                    | 15.70                       | 15.58                     |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 15.79                    | 16.02                       | 15.75                     |                           |             |  |
| 10              | 64QAM      | 1       | 49        | 15.64                    | 15.73                       | 15.93                     | 17                        | 0           |  |
| 10              | 64QAM      | 25      | 0         | 15.73                    | 15.99                       | 15.83                     |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 15.73                    | 16.11                       | 15.95                     |                           |             |  |
| 10              | 64QAM      | 25      | 25        | 15.96                    | 15.96                       | 15.69                     |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 15.77                    | 15.70                       | 15.79                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 131997                   | 132322                      | 132647                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    |                           |             |  |
| 5               | QPSK       | 1       | 0         | 15.80                    | 15.94                       | 15.99                     | 17                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 15.94                    | 16.02                       | 15.77                     |                           |             |  |
| 5               | QPSK       | 1       | 24        | 15.88                    | 15.60                       | 16.01                     |                           |             |  |
| 5               | QPSK       | 12      | 0         | 15.91                    | 15.99                       | 16.07                     |                           |             |  |
| 5               | QPSK       | 12      | 7         | 16.03                    | 16.13                       | 15.87                     | 17                        | 0           |  |
| 5               | QPSK       | 12      | 13        | 15.80                    | 15.94                       | 15.88                     |                           |             |  |
| 5               | QPSK       | 25      | 0         | 16.13                    | 15.83                       | 16.06                     |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 16.04                    | 15.99                       | 16.09                     |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 16.13                    | 15.88                       | 15.73                     | 17                        | 0           |  |
| 5               | 16QAM      | 1       | 24        | 15.73                    | 15.73                       | 16.11                     |                           |             |  |
| 5               | 16QAM      | 12      | 0         | 16.14                    | 15.96                       | 15.89                     |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 16.13                    | 16.03                       | 16.12                     |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 16.13                    | 15.88                       | 15.73                     | 17                        | 0           |  |
| 5               | 16QAM      | 25      | 0         | 16.02                    | 16.10                       | 15.88                     |                           |             |  |
| 5               | 64QAM      | 1       | 0         | 15.93                    | 15.74                       | 15.82                     |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 15.81                    | 16.11                       | 16.14                     |                           |             |  |
| 5               | 64QAM      | 1       | 24        | 15.99                    | 15.99                       | 16.02                     | 17                        | 0           |  |
| 5               | 64QAM      | 12      | 0         | 15.89                    | 15.15                       | 15.96                     |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 15.81                    | 16.02                       | 16.09                     |                           |             |  |
| 5               | 64QAM      | 12      | 13        | 15.92                    | 15.73                       | 16.02                     |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 15.98                    | 16.03                       | 16.02                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 132007                   | 132322                      | 132665                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1711.5                   | 1745                        | 1777.5                    |                           |             |  |
| 3               | QPSK       | 1       | 0         | 15.68                    | 15.58                       | 15.77                     | 17                        | 0           |  |
| 3               | QPSK       | 1       | 8         | 15.70                    | 15.89                       | 15.85                     |                           |             |  |
| 3               | QPSK       | 1       | 14        | 15.60                    | 15.64                       | 15.53                     |                           |             |  |
| 3               | QPSK       | 8       | 0         | 15.76                    | 15.95                       | 16.02                     |                           |             |  |
| 3               | QPSK       | 8       | 4         | 15.78                    | 16.14                       | 16.03                     | 17                        | 0           |  |
| 3               | QPSK       | 8       | 7         | 15.91                    | 15.71                       | 15.88                     |                           |             |  |
| 3               | QPSK       | 15      | 0         | 16.14                    | 16.13                       | 15.82                     |                           |             |  |
| 3               | 16QAM      | 1       | 0         | 15.98                    | 16.02                       | 15.97                     |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 16.13                    | 16.13                       | 16.04                     | 17                        | 0           |  |
| 3               | 16QAM      | 1       | 14        | 15.96                    | 15.97                       | 15.99                     |                           |             |  |
| 3               | 16QAM      | 8       | 0         | 16.07                    | 15.89                       | 15.93                     |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 15.97                    | 16.13                       | 15.95                     |                           |             |  |
| 3               | 16QAM      | 8       | 7         | 16.07                    | 15.93                       | 15.90                     | 17                        | 0           |  |
| 3               | 16QAM      | 15      | 0         | 15.92                    | 15.72                       | 15.63                     |                           |             |  |
| 3               | 64QAM      | 1       | 0         | 15.67                    | 15.93                       | 15.92                     |                           |             |  |
| 3               | 64QAM      | 1       | 8         | 15.76                    | 15.84                       | 15.67                     |                           |             |  |
| 3               | 64QAM      | 1       | 14        | 15.68                    | 15.46                       | 15.67                     | 17                        | 0           |  |
| 3               | 64QAM      | 8       | 0         | 15.94                    | 15.95                       | 15.75                     |                           |             |  |
| 3               | 64QAM      | 8       | 4         | 16.04                    | 15.94                       | 15.94                     |                           |             |  |
| 3               | 64QAM      | 8       | 7         | 16.10                    | 15.78                       | 15.87                     |                           |             |  |
| 3               | 64QAM      | 15      | 0         | 16.11                    | 15.80                       | 15.71                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 131979                   | 132322                      | 132665                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1710.7                   | 1745                        | 1779.3                    |                           |             |  |
| 1.4             | QPSK       | 1       | 0         | 15.74                    | 15.73                       | 17.83                     | 17                        | 0           |  |
| 1.4             | QPSK       | 1       | 3         | 15.91                    | 15.64                       | 15.86                     |                           |             |  |
| 1.4             | QPSK       | 1       | 5         | 15.64                    | 15.48                       | 15.50                     |                           |             |  |
| 1.4             | QPSK       | 3       | 0         | 15.95                    | 15.97                       | 15.54                     |                           |             |  |
| 1.4             | QPSK       | 3       | 1         | 15.88                    | 15.72                       | 15.69                     | 17                        | 0           |  |
| 1.4             | QPSK       | 3       | 3         | 15.81                    | 15.64                       | 15.77                     |                           |             |  |
| 1.4             | QPSK       | 6       | 0         | 15.93                    | 16.05                       | 15.98                     |                           |             |  |
| 1.4             | QPSK       | 6       | 3         | 15.96                    | 15.93                       | 15.98                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 0         | 16.06                    | 16.12                       | 15.73                     | 17                        | 0           |  |
| 1.4             | 16QAM      | 1       | 5         | 15.67                    | 15.81                       | 15.89                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 0         | 15.70                    | 15.81                       | 16.02                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 1         | 15.90                    | 15.93                       | 15.98                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 16.03                    | 15.66                       | 15.99                     | 17                        | 0           |  |
| 1.4             | 16QAM      | 6       | 0         | 15.94                    | 15.95                       | 15.83                     |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 15.82                    | 15.84                       | 15.81                     |                           |             |  |
| 1.4             | 64QAM      | 1       | 3         | 15.92                    | 15.84                       | 15.66                     |                           |             |  |
| 1.4             | 64QAM      | 3       | 0         | 16.03                    | 16.06                       | 15.62                     | 17                        | 0           |  |
| 1.4             | 64QAM      | 3       | 1         | 15.98                    | 15.97                       | 15.72                     |                           |             |  |
| 1.4             | 64QAM      | 3       | 1         | 15.94                    | 15.71                       | 15.78                     |                           |             |  |
| 1.4             | 64QAM      | 6       | 0         | 15.83                    | 15.81                       | 15.63                     |                           |             |  |

## LTE Inter Band UL CA

| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |                     |          |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|---------------------|----------|--|
| Full Power            |            |         |           |                       |                          |                        |                     |          |  |                     |          |  |
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        |                     |          |  |                     |          |  |
|                       |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |                     |          |  |
| 20                    | QPSK       | 1       | 0         | 22.96                 | 23.03                    | 22.92                  | 24                  | 0        |  |                     |          |  |
| 20                    | QPSK       | 1       | 49        | 22.93                 | 22.80                    | 22.72                  |                     |          |  |                     |          |  |
| 20                    | QPSK       | 1       | 99        | 22.78                 | 22.71                    | 22.57                  |                     |          |  |                     |          |  |
| 20                    | QPSK       | 50      | 0         | 22.05                 | 22.10                    | 21.96                  | 23                  | 1        |  |                     |          |  |
| 20                    | QPSK       | 50      | 24        | 22.07                 | 21.82                    | 21.88                  |                     |          |  |                     |          |  |
| 20                    | QPSK       | 50      | 50        | 22.02                 | 21.80                    | 21.79                  |                     |          |  |                     |          |  |
| 20                    | QPSK       | 100     | 0         | 21.65                 | 21.77                    | 21.72                  | 23                  | 1        |  |                     |          |  |
| 20                    | 16QAM      | 1       | 0         | 22.06                 | 22.00                    | 21.73                  |                     |          |  |                     |          |  |
| 20                    | 16QAM      | 1       | 49        | 22.08                 | 22.08                    | 22.04                  |                     |          |  |                     |          |  |
| 20                    | 16QAM      | 1       | 99        | 21.97                 | 21.99                    | 21.91                  | 22                  | 2        |  |                     |          |  |
| 20                    | 16QAM      | 50      | 0         | 21.01                 | 21.03                    | 20.79                  |                     |          |  |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 20.98                 | 21.06                    | 20.91                  |                     |          |  |                     |          |  |
| 20                    | 16QAM      | 50      | 50        | 21.04                 | 21.01                    | 20.90                  | 22                  | 2        |  |                     |          |  |
| 20                    | 16QAM      | 100     | 0         | 21.07                 | 20.93                    | 20.85                  |                     |          |  |                     |          |  |
| 20                    | 64QAM      | 1       | 0         | 20.97                 | 20.70                    | 20.69                  |                     |          |  |                     |          |  |
| 20                    | 64QAM      | 1       | 49        | 20.85                 | 20.63                    | 20.60                  | 21                  | 3        |  |                     |          |  |
| 20                    | 64QAM      | 1       | 99        | 21.06                 | 20.87                    | 20.62                  |                     |          |  |                     |          |  |
| 20                    | 64QAM      | 50      | 0         | 19.76                 | 19.49                    | 19.77                  |                     |          |  |                     |          |  |
| 20                    | 64QAM      | 50      | 24        | 19.88                 | 19.79                    | 19.74                  | 20                  | 0        |  |                     |          |  |
| 20                    | 64QAM      | 50      | 50        | 19.95                 | 19.85                    | 19.73                  |                     |          |  |                     |          |  |
| 20                    | 64QAM      | 100     | 0         | 19.81                 | 19.63                    | 19.49                  |                     |          |  |                     |          |  |
| Channel               |            |         |           |                       |                          |                        |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| 15                    | QPSK       | 1       | 0         | 22.85                 | 22.78                    | 22.84                  | 24                  | 0        |  |                     |          |  |
| 15                    | QPSK       | 1       | 37        | 22.82                 | 22.64                    | 22.80                  |                     |          |  |                     |          |  |
| 15                    | QPSK       | 1       | 74        | 22.75                 | 22.50                    | 22.45                  |                     |          |  |                     |          |  |
| 15                    | QPSK       | 36      | 0         | 22.00                 | 21.86                    | 21.76                  | 23                  | 1        |  |                     |          |  |
| 15                    | QPSK       | 36      | 20        | 21.95                 | 21.84                    | 21.86                  |                     |          |  |                     |          |  |
| 15                    | QPSK       | 36      | 39        | 21.80                 | 21.63                    | 21.75                  |                     |          |  |                     |          |  |
| 15                    | QPSK       | 75      | 0         | 21.75                 | 21.62                    | 21.58                  | 23                  | 1        |  |                     |          |  |
| 15                    | 16QAM      | 1       | 0         | 21.81                 | 21.76                    | 21.62                  |                     |          |  |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 21.89                 | 21.85                    | 21.85                  |                     |          |  |                     |          |  |
| 15                    | 16QAM      | 1       | 74        | 21.91                 | 21.84                    | 21.75                  | 22                  | 2        |  |                     |          |  |
| 15                    | 16QAM      | 36      | 0         | 20.92                 | 20.79                    | 20.74                  |                     |          |  |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 20.86                 | 20.97                    | 20.83                  |                     |          |  |                     |          |  |
| 15                    | 16QAM      | 36      | 39        | 20.81                 | 20.76                    | 20.84                  | 22                  | 2        |  |                     |          |  |
| 15                    | 16QAM      | 75      | 0         | 20.95                 | 20.91                    | 20.57                  |                     |          |  |                     |          |  |
| 15                    | 64QAM      | 1       | 0         | 20.86                 | 20.55                    | 20.65                  |                     |          |  |                     |          |  |
| 15                    | 64QAM      | 1       | 37        | 20.65                 | 20.54                    | 20.59                  | 22                  | 2        |  |                     |          |  |
| 15                    | 64QAM      | 1       | 74        | 20.94                 | 20.81                    | 20.48                  |                     |          |  |                     |          |  |
| 15                    | 64QAM      | 36      | 0         | 19.56                 | 19.38                    | 19.69                  |                     |          |  |                     |          |  |
| 15                    | 64QAM      | 36      | 20        | 19.66                 | 19.58                    | 19.51                  | 21                  | 3        |  |                     |          |  |
| 15                    | 64QAM      | 36      | 39        | 19.80                 | 19.81                    | 19.58                  |                     |          |  |                     |          |  |
| 15                    | 64QAM      | 75      | 0         | 19.60                 | 19.40                    | 19.28                  |                     |          |  |                     |          |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| 10                    | QPSK       | 1       | 0         | 22.73                 | 22.82                    | 22.76                  | 24                  | 0        |  |                     |          |  |
| 10                    | QPSK       | 1       | 25        | 22.69                 | 22.65                    | 22.66                  |                     |          |  |                     |          |  |
| 10                    | QPSK       | 1       | 49        | 22.58                 | 22.51                    | 22.45                  |                     |          |  |                     |          |  |
| 10                    | QPSK       | 25      | 0         | 21.82                 | 22.06                    | 21.77                  | 23                  | 1        |  |                     |          |  |
| 10                    | QPSK       | 25      | 12        | 21.97                 | 21.77                    | 21.82                  |                     |          |  |                     |          |  |
| 10                    | QPSK       | 25      | 25        | 21.94                 | 21.56                    | 21.72                  |                     |          |  |                     |          |  |
| 10                    | QPSK       | 50      | 0         | 21.85                 | 21.68                    | 21.52                  | 23                  | 1        |  |                     |          |  |
| 10                    | 16QAM      | 1       | 0         | 21.97                 | 21.83                    | 21.59                  |                     |          |  |                     |          |  |
| 10                    | 16QAM      | 1       | 25        | 22.04                 | 21.93                    | 21.86                  |                     |          |  |                     |          |  |
| 10                    | 16QAM      | 1       | 49        | 21.80                 | 21.80                    | 21.78                  | 22                  | 2        |  |                     |          |  |
| 10                    | 16QAM      | 25      | 0         | 20.89                 | 20.90                    | 20.76                  |                     |          |  |                     |          |  |
| 10                    | 16QAM      | 25      | 12        | 20.82                 | 20.97                    | 20.80                  |                     |          |  |                     |          |  |
| 10                    | 16QAM      | 25      | 25        | 20.99                 | 20.79                    | 20.69                  | 22                  | 2        |  |                     |          |  |
| 10                    | 16QAM      | 50      | 0         | 20.82                 | 20.71                    | 20.45                  |                     |          |  |                     |          |  |
| 10                    | 64QAM      | 1       | 0         | 20.73                 | 20.51                    | 20.58                  |                     |          |  |                     |          |  |
| 10                    | 64QAM      | 1       | 25        | 20.80                 | 20.45                    | 20.50                  | 22                  | 2        |  |                     |          |  |
| 10                    | 64QAM      | 1       | 49        | 20.85                 | 20.73                    | 20.49                  |                     |          |  |                     |          |  |
| 10                    | 64QAM      | 25      | 0         | 19.70                 | 19.78                    | 19.75                  |                     |          |  |                     |          |  |
| 10                    | 64QAM      | 25      | 12        | 19.71                 | 19.69                    | 19.50                  | 21                  | 3        |  |                     |          |  |
| 10                    | 64QAM      | 25      | 25        | 19.84                 | 19.84                    | 19.66                  |                     |          |  |                     |          |  |
| 10                    | 64QAM      | 50      | 0         | 19.74                 | 19.45                    | 19.25                  |                     |          |  |                     |          |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| 5                     | QPSK       | 1       | 0         | 22.88                 | 22.83                    | 22.75                  | 24                  | 0        |  |                     |          |  |
| 5                     | QPSK       | 1       | 12        | 22.88                 | 22.72                    | 22.73                  |                     |          |  |                     |          |  |
| 5                     | QPSK       | 1       | 24        | 22.57                 | 22.60                    | 22.43                  |                     |          |  |                     |          |  |
| 5                     | QPSK       | 12      | 0         | 22.05                 | 22.07                    | 21.83                  | 23                  | 1        |  |                     |          |  |
| 5                     | QPSK       | 12      | 7         | 21.88                 | 21.78                    | 21.79                  |                     |          |  |                     |          |  |
| 5                     | QPSK       | 12      | 13        | 21.89                 | 21.81                    | 21.74                  |                     |          |  |                     |          |  |
| 5                     | QPSK       | 25      | 0         | 21.85                 | 21.76                    | 21.57                  | 23                  | 1        |  |                     |          |  |
| 5                     | 16QAM      | 1       | 0         | 22.07                 | 21.95                    | 21.94                  |                     |          |  |                     |          |  |
| 5                     | 16QAM      | 1       | 12        | 21.96                 | 21.87                    | 22.03                  |                     |          |  |                     |          |  |
| 5                     | 16QAM      | 1       | 24        | 21.80                 | 21.92                    | 21.84                  | 22                  | 2        |  |                     |          |  |
| 5                     | 16QAM      | 12      | 0         | 20.98                 | 20.99                    | 20.73                  |                     |          |  |                     |          |  |
| 5                     | 16QAM      | 12      | 7         | 20.77                 | 21.07                    | 20.83                  |                     |          |  |                     |          |  |
| 5                     | 16QAM      | 12      | 13        | 20.95                 | 20.89                    | 20.90                  | 22                  | 2        |  |                     |          |  |
| 5                     | 16QAM      | 25      | 0         | 20.92                 | 20.80                    | 20.80                  |                     |          |  |                     |          |  |
| 5                     | 64QAM      | 1       | 0         | 20.83                 | 20.62                    | 20.62                  |                     |          |  |                     |          |  |
| 5                     | 64QAM      | 1       | 12        | 20.77                 | 20.67                    | 20.74                  | 22                  | 2        |  |                     |          |  |
| 5                     | 64QAM      | 1       | 24        | 21.05                 | 20.80                    | 20.84                  |                     |          |  |                     |          |  |
| 5                     | 64QAM      | 12      | 0         | 19.55                 | 19.42                    | 19.54                  |                     |          |  |                     |          |  |
| 5                     | 64QAM      | 12      | 7         | 19.79                 | 19.58                    | 19.74                  | 21                  | 3        |  |                     |          |  |
| 5                     | 64QAM      | 12      | 13        | 19.72                 | 19.77                    | 19.58                  |                     |          |  |                     |          |  |
| 5                     | 64QAM      | 25      | 0         | 19.64                 | 19.61                    | 19.47                  |                     |          |  |                     |          |  |

| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| Hotspot               |            |         |           |                       |                          |                        |                     |          |  |
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel               |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                    | QPSK       | 1       | 0         | 13.81                 | 13.92                    | 13.86                  | 15                  | 0        |  |
| 20                    | QPSK       | 1       | 49        | 13.99                 | 13.77                    | 13.60                  |                     |          |  |
| 20                    | QPSK       | 1       | 99        | 13.85                 | 13.72                    | 13.52                  |                     |          |  |
| 20                    | QPSK       | 50      | 0         | 13.75                 | 13.86                    | 13.81                  | 15                  | 0        |  |
| 20                    | QPSK       | 50      | 24        | 13.56                 | 13.84                    | 13.71                  |                     |          |  |
| 20                    | QPSK       | 50      | 50        | 13.47                 | 13.57                    | 13.38                  |                     |          |  |
| 20                    | QPSK       | 100     | 0         | 13.58                 | 13.75                    | 13.53                  | 15                  | 0        |  |
| 20                    | 16QAM      | 1       | 0         | 13.86                 | 13.80                    | 13.66                  |                     |          |  |
| 20                    | 16QAM      | 1       | 49        | 13.99                 | 13.70                    | 13.58                  |                     |          |  |
| 20                    | 16QAM      | 1       | 99        | 13.81                 | 13.70                    | 13.53                  | 15                  | 0        |  |
| 20                    | 16QAM      | 50      | 0         | 13.52                 | 13.57                    | 13.34                  |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 13.39                 | 13.43                    | 13.34                  |                     |          |  |
| 20                    | 16QAM      | 50      | 50        | 13.32                 | 13.39                    | 13.08                  | 15                  | 0        |  |
| 20                    | 16QAM      | 100     | 0         | 13.22                 | 13.39                    | 13.26                  |                     |          |  |
| 20                    | 64QAM      | 1       | 0         | 13.34                 | 13.55                    | 13.46                  |                     |          |  |
| 20                    | 64QAM      | 1       | 49        | 13.42                 | 13.70                    | 13.50                  | 15                  | 0        |  |
| 20                    | 64QAM      | 1       | 99        | 13.52                 | 13.71                    | 13.57                  |                     |          |  |
| 20                    | 64QAM      | 50      | 0         | 13.08                 | 13.25                    | 13.11                  |                     |          |  |
| 20                    | 64QAM      | 50      | 24        | 13.27                 | 13.41                    | 13.12                  | 15                  | 0        |  |
| 20                    | 64QAM      | 50      | 50        | 13.16                 | 13.28                    | 12.99                  |                     |          |  |
| 20                    | 64QAM      | 100     | 0         | 13.05                 | 13.29                    | 13.16                  |                     |          |  |
| Channel               |            |         |           | 2507.5                | 2532.5                   | 2557.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2507.5                | 2532.5                   | 2557.5                 |                     |          |  |
| 15                    | QPSK       | 1       | 0         | 13.76                 | 13.83                    | 13.64                  | 15                  | 0        |  |
| 15                    | QPSK       | 1       | 37        | 13.38                 | 13.78                    | 13.55                  |                     |          |  |
| 15                    | QPSK       | 1       | 74        | 13.42                 | 13.68                    | 13.48                  |                     |          |  |
| 15                    | QPSK       | 36      | 0         | 13.59                 | 13.64                    | 13.65                  | 15                  | 0        |  |
| 15                    | QPSK       | 36      | 20        | 13.46                 | 13.67                    | 13.60                  |                     |          |  |
| 15                    | QPSK       | 36      | 39        | 13.37                 | 13.45                    | 13.19                  |                     |          |  |
| 15                    | QPSK       | 75      | 0         | 13.58                 | 13.63                    | 13.63                  | 15                  | 0        |  |
| 15                    | 16QAM      | 1       | 0         | 13.43                 | 13.66                    | 13.56                  |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 13.47                 | 13.61                    | 13.50                  |                     |          |  |
| 15                    | 16QAM      | 1       | 74        | 13.45                 | 13.59                    | 13.42                  | 15                  | 0        |  |
| 15                    | 16QAM      | 36      | 0         | 13.38                 | 13.55                    | 13.18                  |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 13.36                 | 13.30                    | 13.20                  |                     |          |  |
| 15                    | 16QAM      | 36      | 39        | 13.25                 | 13.36                    | 13.15                  | 15                  | 0        |  |
| 15                    | 16QAM      | 75      | 0         | 13.01                 | 13.26                    | 13.11                  |                     |          |  |
| 15                    | 16QAM      | 75      | 0         | 13.25                 | 13.51                    | 13.44                  |                     |          |  |
| 15                    | 64QAM      | 1       | 37        | 13.29                 | 13.59                    | 13.49                  | 15                  | 0        |  |
| 15                    | 64QAM      | 1       | 74        | 13.46                 | 13.61                    | 13.45                  |                     |          |  |
| 15                    | 64QAM      | 36      | 0         | 13.26                 | 13.19                    | 12.94                  |                     |          |  |
| 15                    | 64QAM      | 36      | 20        | 13.13                 | 13.31                    | 13.04                  | 15                  | 0        |  |
| 15                    | 64QAM      | 36      | 39        | 13.00                 | 13.16                    | 12.88                  |                     |          |  |
| 15                    | 64QAM      | 75      | 0         | 13.00                 | 13.11                    | 13.03                  |                     |          |  |
| Channel               |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10                    | QPSK       | 1       | 0         | 13.75                 | 13.83                    | 13.83                  | 15                  | 0        |  |
| 10                    | QPSK       | 1       | 25        | 13.44                 | 13.76                    | 13.45                  |                     |          |  |
| 10                    | QPSK       | 1       | 49        | 13.59                 | 13.64                    | 13.53                  |                     |          |  |
| 10                    | QPSK       | 25      | 0         | 13.59                 | 13.75                    | 13.75                  | 15                  | 0        |  |
| 10                    | QPSK       | 25      | 12        | 13.36                 | 13.71                    | 13.53                  |                     |          |  |
| 10                    | QPSK       | 25      | 25        | 13.36                 | 13.55                    | 13.45                  |                     |          |  |
| 10                    | QPSK       | 50      | 0         | 13.43                 | 13.62                    | 13.45                  | 15                  | 0        |  |
| 10                    | 16QAM      | 1       | 0         | 13.61                 | 13.64                    | 13.63                  |                     |          |  |
| 10                    | 16QAM      | 1       | 25        | 13.59                 | 13.50                    | 13.53                  |                     |          |  |
| 10                    | 16QAM      | 1       | 49        | 13.60                 | 13.50                    | 13.51                  | 15                  | 0        |  |
| 10                    | 16QAM      | 25      | 0         | 13.41                 | 13.36                    | 13.26                  |                     |          |  |
| 10                    | 16QAM      | 25      | 12        | 13.39                 | 13.33                    | 13.33                  |                     |          |  |
| 10                    | 16QAM      | 50      | 0         | 13.17                 | 13.32                    | 13.25                  | 15                  | 0        |  |
| 10                    | 64QAM      | 1       | 0         | 13.36                 | 13.36                    | 13.28                  |                     |          |  |
| 10                    | 64QAM      | 1       | 25        | 13.41                 | 13.51                    | 13.32                  |                     |          |  |
| 10                    | 64QAM      | 1       | 49        | 13.48                 | 13.56                    | 13.57                  | 15                  | 0        |  |
| 10                    | 64QAM      | 25      | 0         | 12.86                 | 13.22                    | 12.96                  |                     |          |  |
| 10                    | 64QAM      | 25      | 12        | 13.07                 | 13.24                    | 12.96                  |                     |          |  |
| 10                    | 64QAM      | 25      | 25        | 13.04                 | 13.28                    | 12.99                  | 15                  | 0        |  |
| 10                    | 64QAM      | 50      | 0         | 12.92                 | 13.25                    | 13.03                  |                     |          |  |
| 10                    | 64QAM      | 50      | 25        | 12.90                 | 13.03                    | 13.03                  |                     |          |  |
| Channel               |            |         |           | 2317.5                | 2532.5                   | 2567.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2502.5                | 2532.5                   | 2567.5                 |                     |          |  |
| 5                     | QPSK       | 1       | 0         | 13.59                 | 13.73                    | 13.79                  | 15                  | 0        |  |
| 5                     | QPSK       | 1       | 12        | 13.40                 | 13.70                    | 13.43                  |                     |          |  |
| 5                     | QPSK       | 1       | 24        | 13.61                 | 13.61                    | 13.41                  |                     |          |  |
| 5                     | QPSK       | 12      | 0         | 13.61                 | 13.79                    | 13.58                  | 15                  | 0        |  |
| 5                     | QPSK       | 12      | 7         | 13.53                 | 13.70                    | 13.60                  |                     |          |  |
| 5                     | QPSK       | 12      | 14        | 13.29                 | 13.34                    | 13.30                  |                     |          |  |
| 5                     | 16QAM      | 1       | 0         | 13.62                 | 13.66                    | 13.62                  | 15                  | 0        |  |
| 5                     | 16QAM      | 1       | 12        | 13.40                 | 13.56                    | 13.35                  |                     |          |  |
| 5                     | 16QAM      | 1       | 24        | 13.52                 | 13.65                    | 13.39                  |                     |          |  |
| 5                     | 16QAM      | 12      | 0         | 13.28                 | 13.55                    | 13.24                  | 15                  | 0        |  |
| 5                     | 16QAM      | 12      | 7         | 13.36                 | 13.22                    | 13.12                  |                     |          |  |
| 5                     | 16QAM      | 12      | 13        | 13.18                 | 13.25                    | 13.12                  |                     |          |  |
| 5                     | 16QAM      | 25      | 0         | 13.09                 | 13.15                    | 13.11                  | 15                  | 0        |  |
| 5                     | 64QAM      | 1       | 0         | 13.21                 | 13.44                    | 13.24                  |                     |          |  |
| 5                     | 64QAM      | 1       | 12        | 13.19                 | 13.46                    | 13.37                  |                     |          |  |
| 5                     | 64QAM      | 1       | 24        | 13.48                 | 13.65                    | 13.49                  | 15                  | 0        |  |
| 5                     | 64QAM      | 12      | 0         | 12.86                 | 13.14                    | 12.94                  |                     |          |  |
| 5                     | 64QAM      | 12      | 7         | 13.25                 | 13.33                    | 13.02                  |                     |          |  |
| 5                     | 64QAM      | 12      | 13        | 13.06                 | 13.04                    | 12.85                  | 15                  | 0        |  |
| 5                     | 64QAM      | 25      | 0         | 12.90                 | 13.09                    | 13.03                  |                     |          |  |



| Band 7 (2600MHz Band) |            |         |           |                          |                             |                           |                           |             |  |
|-----------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| Body Worn             |            |         |           |                          |                             |                           |                           |             |  |
| BW (MHz)              | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel               |            |         |           | 20850                    | 21100                       | 21350                     |                           |             |  |
| Frequency (MHz)       |            |         |           | 2510                     | 2535                        | 2560                      |                           |             |  |
| 20                    | QPSK       | 1       | 0         | 15.69                    | 15.73                       | 15.68                     | 16.5                      | 0           |  |
| 20                    | QPSK       | 1       | 49        | 15.65                    | 15.52                       | 15.59                     |                           |             |  |
| 20                    | QPSK       | 1       | 99        | 15.37                    | 15.18                       | 15.51                     |                           |             |  |
| 20                    | QPSK       | 50      | 0         | 15.55                    | 15.71                       | 15.61                     | 16.5                      | 0           |  |
| 20                    | QPSK       | 50      | 24        | 15.47                    | 15.43                       | 15.61                     |                           |             |  |
| 20                    | QPSK       | 50      | 50        | 15.65                    | 15.41                       | 15.68                     |                           |             |  |
| 20                    | QPSK       | 100     | 0         | 15.49                    | 15.60                       | 15.41                     | 16.5                      | 0           |  |
| 20                    | 16QAM      | 1       | 0         | 15.12                    | 15.08                       | 15.30                     |                           |             |  |
| 20                    | 16QAM      | 1       | 49        | 15.32                    | 15.18                       | 15.27                     |                           |             |  |
| 20                    | 16QAM      | 1       | 99        | 14.98                    | 14.94                       | 15.23                     | 16.5                      | 0           |  |
| 20                    | 16QAM      | 50      | 0         | 15.04                    | 14.96                       | 15.26                     |                           |             |  |
| 20                    | 16QAM      | 50      | 24        | 15.19                    | 15.12                       | 15.42                     |                           |             |  |
| 20                    | 16QAM      | 50      | 50        | 15.32                    | 15.08                       | 15.34                     | 16.5                      | 0           |  |
| 20                    | 16QAM      | 100     | 0         | 15.26                    | 15.05                       | 15.22                     |                           |             |  |
| 20                    | 64QAM      | 1       | 0         | 15.55                    | 15.49                       | 15.55                     |                           |             |  |
| 20                    | 64QAM      | 1       | 49        | 15.69                    | 15.46                       | 15.45                     | 16.5                      | 0           |  |
| 20                    | 64QAM      | 1       | 99        | 15.66                    | 15.57                       | 15.66                     |                           |             |  |
| 20                    | 64QAM      | 50      | 0         | 15.07                    | 14.93                       | 15.06                     |                           |             |  |
| 20                    | 64QAM      | 50      | 24        | 15.26                    | 15.13                       | 15.41                     | 16.5                      | 0           |  |
| 20                    | 64QAM      | 50      | 50        | 15.13                    | 14.97                       | 15.14                     |                           |             |  |
| 20                    | 64QAM      | 100     | 0         | 15.20                    | 15.04                       | 15.28                     |                           |             |  |
| Channel               |            |         |           | 20925                    | 21100                       | 21375                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)       |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                           |             |  |
| 15                    | QPSK       | 1       | 0         | 15.64                    | 15.69                       | 15.64                     | 16.5                      | 0           |  |
| 15                    | QPSK       | 1       | 37        | 15.57                    | 15.45                       | 15.38                     |                           |             |  |
| 15                    | QPSK       | 1       | 74        | 15.23                    | 15.31                       | 15.45                     |                           |             |  |
| 15                    | QPSK       | 36      | 0         | 15.41                    | 15.57                       | 15.50                     | 16.5                      | 0           |  |
| 15                    | QPSK       | 36      | 20        | 15.41                    | 15.28                       | 15.56                     |                           |             |  |
| 15                    | QPSK       | 36      | 39        | 15.56                    | 15.29                       | 15.42                     |                           |             |  |
| 15                    | QPSK       | 75      | 0         | 15.26                    | 15.55                       | 15.17                     | 16.5                      | 0           |  |
| 15                    | 16QAM      | 1       | 0         | 14.91                    | 14.94                       | 15.16                     |                           |             |  |
| 15                    | 16QAM      | 1       | 37        | 15.07                    | 14.95                       | 15.03                     |                           |             |  |
| 15                    | 16QAM      | 1       | 74        | 14.72                    | 14.76                       | 15.06                     | 16.5                      | 0           |  |
| 15                    | 16QAM      | 36      | 0         | 14.78                    | 14.76                       | 15.20                     |                           |             |  |
| 15                    | 16QAM      | 36      | 20        | 15.15                    | 14.97                       | 15.24                     |                           |             |  |
| 15                    | 16QAM      | 36      | 39        | 15.10                    | 15.03                       | 15.10                     | 16.5                      | 0           |  |
| 15                    | 16QAM      | 75      | 0         | 15.18                    | 14.79                       | 14.99                     |                           |             |  |
| 15                    | 64QAM      | 1       | 0         | 15.46                    | 15.44                       | 15.31                     |                           |             |  |
| 15                    | 64QAM      | 1       | 37        | 15.47                    | 15.30                       | 15.40                     | 16.5                      | 0           |  |
| 15                    | 64QAM      | 1       | 74        | 15.55                    | 15.45                       | 15.47                     |                           |             |  |
| 15                    | 64QAM      | 36      | 0         | 15.02                    | 15.02                       | 14.96                     |                           |             |  |
| 15                    | 64QAM      | 36      | 20        | 15.01                    | 15.04                       | 15.35                     | 16.5                      | 0           |  |
| 15                    | 64QAM      | 36      | 39        | 15.00                    | 15.03                       | 15.06                     |                           |             |  |
| 15                    | 64QAM      | 75      | 0         | 15.04                    | 14.78                       | 15.17                     |                           |             |  |
| Channel               |            |         |           | 20800                    | 21100                       | 21400                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)       |            |         |           | 2505                     | 2535                        | 2565                      |                           |             |  |
| 10                    | QPSK       | 1       | 0         | 15.61                    | 15.60                       | 15.56                     | 16.5                      | 0           |  |
| 10                    | QPSK       | 1       | 25        | 15.42                    | 15.34                       | 15.41                     |                           |             |  |
| 10                    | QPSK       | 1       | 49        | 15.27                    | 15.12                       | 15.37                     |                           |             |  |
| 10                    | QPSK       | 25      | 0         | 15.38                    | 15.52                       | 15.58                     | 16.5                      | 0           |  |
| 10                    | QPSK       | 25      | 12        | 15.37                    | 15.37                       | 15.39                     |                           |             |  |
| 10                    | QPSK       | 25      | 25        | 15.42                    | 15.32                       | 15.50                     |                           |             |  |
| 10                    | QPSK       | 50      | 0         | 15.23                    | 15.50                       | 15.29                     | 16.5                      | 0           |  |
| 10                    | 16QAM      | 1       | 0         | 14.94                    | 15.01                       | 15.08                     |                           |             |  |
| 10                    | 16QAM      | 1       | 25        | 15.09                    | 14.99                       | 15.20                     |                           |             |  |
| 10                    | 16QAM      | 1       | 49        | 14.75                    | 14.82                       | 15.14                     | 16.5                      | 0           |  |
| 10                    | 16QAM      | 25      | 0         | 15.10                    | 14.83                       | 15.16                     |                           |             |  |
| 10                    | 16QAM      | 25      | 12        | 15.14                    | 15.05                       | 15.31                     |                           |             |  |
| 10                    | 16QAM      | 25      | 25        | 15.28                    | 15.04                       | 15.27                     | 16.5                      | 0           |  |
| 10                    | 16QAM      | 50      | 0         | 15.03                    | 14.96                       | 15.17                     |                           |             |  |
| 10                    | 64QAM      | 1       | 0         | 15.40                    | 15.26                       | 15.30                     |                           |             |  |
| 10                    | 64QAM      | 1       | 25        | 15.55                    | 15.22                       | 15.24                     | 16.5                      | 0           |  |
| 10                    | 64QAM      | 1       | 49        | 15.40                    | 15.52                       | 15.45                     |                           |             |  |
| 10                    | 64QAM      | 25      | 0         | 14.87                    | 14.91                       | 14.85                     |                           |             |  |
| 10                    | 64QAM      | 25      | 12        | 15.07                    | 15.03                       | 15.32                     | 16.5                      | 0           |  |
| 10                    | 64QAM      | 25      | 25        | 14.91                    | 14.92                       | 14.86                     |                           |             |  |
| 10                    | 64QAM      | 50      | 0         | 15.00                    | 14.82                       | 15.03                     |                           |             |  |
| Channel               |            |         |           | 20775                    | 21100                       | 21425                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)       |            |         |           | 2502.5                   | 2535                        | 2567.5                    |                           |             |  |
| 5                     | QPSK       | 1       | 0         | 15.68                    | 15.70                       | 15.55                     | 16.5                      | 0           |  |
| 5                     | QPSK       | 1       | 12        | 15.44                    | 15.35                       | 15.39                     |                           |             |  |
| 5                     | QPSK       | 1       | 24        | 15.33                    | 15.21                       | 15.48                     |                           |             |  |
| 5                     | QPSK       | 12      | 0         | 15.56                    | 15.64                       | 15.43                     | 16.5                      | 0           |  |
| 5                     | QPSK       | 12      | 7         | 15.49                    | 15.32                       | 15.58                     |                           |             |  |
| 5                     | QPSK       | 12      | 13        | 15.47                    | 15.30                       | 15.51                     |                           |             |  |
| 5                     | QPSK       | 25      | 0         | 15.49                    | 15.51                       | 15.37                     | 16.5                      | 0           |  |
| 5                     | 16QAM      | 1       | 0         | 15.14                    | 14.86                       | 15.09                     |                           |             |  |
| 5                     | 16QAM      | 1       | 12        | 15.24                    | 14.96                       | 15.21                     |                           |             |  |
| 5                     | 16QAM      | 1       | 24        | 14.85                    | 14.89                       | 15.16                     | 16.5                      | 0           |  |
| 5                     | 16QAM      | 12      | 0         | 14.88                    | 14.87                       | 15.19                     |                           |             |  |
| 5                     | 16QAM      | 12      | 7         | 15.16                    | 14.92                       | 15.27                     |                           |             |  |
| 5                     | 16QAM      | 12      | 13        | 15.18                    | 14.88                       | 15.28                     | 16.5                      | 0           |  |
| 5                     | 16QAM      | 25      | 0         | 15.19                    | 14.95                       | 15.02                     |                           |             |  |
| 5                     | 64QAM      | 1       | 0         | 15.35                    | 15.38                       | 15.34                     |                           |             |  |
| 5                     | 64QAM      | 1       | 12        | 15.52                    | 15.38                       | 15.33                     | 16.5                      | 0           |  |
| 5                     | 64QAM      | 1       | 24        | 15.47                    | 15.36                       | 15.47                     |                           |             |  |
| 5                     | 64QAM      | 12      | 0         | 15.06                    | 15.11                       | 15.12                     |                           |             |  |
| 5                     | 64QAM      | 12      | 7         | 15.23                    | 15.03                       | 15.39                     | 16.5                      | 0           |  |
| 5                     | 64QAM      | 12      | 13        | 14.96                    | 15.08                       | 15.09                     |                           |             |  |
| 5                     | 64QAM      | 25      | 0         | 15.15                    | 14.93                       | 15.15                     |                           |             |  |

| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| Handheld              |            |         |           |                       |                          |                        |                     |          |  |
| BW (MHz)              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel               |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                    | QPSK       | 1       | 0         | 18.12                 | 18.22                    | 17.99                  | 19                  | 0        |  |
| 20                    | QPSK       | 1       | 49        | 17.84                 | 17.85                    | 18.09                  |                     |          |  |
| 20                    | QPSK       | 1       | 99        | 17.51                 | 17.73                    | 17.78                  |                     |          |  |
| 20                    | QPSK       | 50      | 0         | 17.97                 | 18.15                    | 18.08                  | 19                  | 0        |  |
| 20                    | QPSK       | 50      | 24        | 17.65                 | 17.81                    | 17.85                  |                     |          |  |
| 20                    | QPSK       | 50      | 50        | 17.65                 | 17.73                    | 17.86                  |                     |          |  |
| 20                    | QPSK       | 100     | 0         | 17.72                 | 17.85                    | 17.77                  | 19                  | 0        |  |
| 20                    | 16QAM      | 1       | 0         | 17.73                 | 17.65                    | 17.64                  |                     |          |  |
| 20                    | 16QAM      | 1       | 49        | 17.49                 | 17.38                    | 17.50                  |                     |          |  |
| 20                    | 16QAM      | 1       | 99        | 17.34                 | 17.30                    | 17.56                  | 19                  | 0        |  |
| 20                    | 16QAM      | 50      | 0         | 17.50                 | 17.45                    | 17.60                  |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 17.62                 | 17.45                    | 17.61                  |                     |          |  |
| 20                    | 16QAM      | 50      | 50        | 17.60                 | 17.53                    | 17.78                  | 19                  | 0        |  |
| 20                    | 16QAM      | 100     | 0         | 17.63                 | 17.44                    | 17.70                  |                     |          |  |
| 20                    | 64QAM      | 1       | 0         | 18.02                 | 17.92                    | 18.10                  |                     |          |  |
| 20                    | 64QAM      | 1       | 49        | 18.11                 | 18.08                    | 18.12                  | 19                  | 0        |  |
| 20                    | 64QAM      | 1       | 99        | 18.01                 | 17.96                    | 18.04                  |                     |          |  |
| 20                    | 64QAM      | 50      | 0         | 17.64                 | 17.42                    | 17.61                  |                     |          |  |
| 20                    | 64QAM      | 50      | 24        | 17.72                 | 17.64                    | 17.90                  | 19                  | 0        |  |
| 20                    | 64QAM      | 50      | 50        | 17.65                 | 17.53                    | 17.77                  |                     |          |  |
| 20                    | 64QAM      | 100     | 0         | 17.41                 | 17.42                    | 17.50                  |                     |          |  |
| Channel               |            |         |           | 20925                 | 21100                    | 21375                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15                    | QPSK       | 1       | 0         | 18.01                 | 18.05                    | 17.79                  | 19                  | 0        |  |
| 15                    | QPSK       | 1       | 37        | 17.65                 | 17.72                    | 17.93                  |                     |          |  |
| 15                    | QPSK       | 1       | 74        | 17.79                 | 17.68                    | 17.60                  |                     |          |  |
| 15                    | QPSK       | 36      | 0         | 17.67                 | 17.84                    | 17.84                  | 19                  | 0        |  |
| 15                    | QPSK       | 36      | 20        | 17.68                 | 17.52                    | 17.68                  |                     |          |  |
| 15                    | QPSK       | 36      | 39        | 17.66                 | 17.44                    | 17.72                  |                     |          |  |
| 15                    | QPSK       | 75      | 0         | 17.42                 | 17.62                    | 17.58                  | 19                  | 0        |  |
| 15                    | 16QAM      | 1       | 0         | 17.44                 | 17.46                    | 17.42                  |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 17.20                 | 17.12                    | 17.21                  |                     |          |  |
| 15                    | 16QAM      | 1       | 74        | 17.19                 | 17.15                    | 17.46                  | 19                  | 0        |  |
| 15                    | 16QAM      | 36      | 0         | 17.24                 | 17.20                    | 17.30                  |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 17.44                 | 17.29                    | 17.30                  |                     |          |  |
| 15                    | 16QAM      | 36      | 39        | 17.37                 | 17.40                    | 17.64                  | 19                  | 0        |  |
| 15                    | 16QAM      | 75      | 0         | 17.43                 | 17.30                    | 17.53                  |                     |          |  |
| 15                    | 64QAM      | 1       | 0         | 17.74                 | 17.67                    | 17.84                  |                     |          |  |
| 15                    | 64QAM      | 1       | 37        | 17.87                 | 17.96                    | 18.00                  | 19                  | 0        |  |
| 15                    | 64QAM      | 1       | 74        | 17.71                 | 17.75                    | 17.89                  |                     |          |  |
| 15                    | 64QAM      | 36      | 0         | 17.36                 | 17.17                    | 17.37                  |                     |          |  |
| 15                    | 64QAM      | 36      | 20        | 17.41                 | 17.48                    | 17.65                  | 19                  | 0        |  |
| 15                    | 64QAM      | 36      | 39        | 17.56                 | 17.26                    | 17.61                  |                     |          |  |
| 15                    | 64QAM      | 75      | 0         | 17.26                 | 17.11                    | 17.33                  |                     |          |  |
| Channel               |            |         |           | 20980                 | 21100                    | 21300                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10                    | QPSK       | 1       | 0         | 18.06                 | 17.81                    | 18.03                  | 19                  | 0        |  |
| 10                    | QPSK       | 1       | 25        | 17.65                 | 17.86                    | 17.57                  |                     |          |  |
| 10                    | QPSK       | 1       | 49        | 17.58                 | 17.57                    | 17.78                  |                     |          |  |
| 10                    | QPSK       | 25      | 0         | 17.97                 | 17.99                    | 17.84                  | 19                  | 0        |  |
| 10                    | QPSK       | 25      | 12        | 17.58                 | 17.74                    | 17.66                  |                     |          |  |
| 10                    | QPSK       | 25      | 25        | 17.68                 | 17.73                    | 17.76                  |                     |          |  |
| 10                    | QPSK       | 50      | 0         | 17.67                 | 17.66                    | 17.48                  | 19                  | 0        |  |
| 10                    | 16QAM      | 1       | 0         | 17.48                 | 17.39                    | 17.55                  |                     |          |  |
| 10                    | 16QAM      | 1       | 25        | 17.27                 | 17.32                    | 17.29                  |                     |          |  |
| 10                    | 16QAM      | 1       | 49        | 17.12                 | 17.47                    | 17.12                  | 19                  | 0        |  |
| 10                    | 16QAM      | 25      | 0         | 17.21                 | 17.48                    | 17.34                  |                     |          |  |
| 10                    | 16QAM      | 25      | 12        | 17.20                 | 17.39                    | 17.30                  |                     |          |  |
| 10                    | 16QAM      | 25      | 25        | 17.38                 | 17.55                    | 17.51                  | 19                  | 0        |  |
| 10                    | 16QAM      | 50      | 0         | 17.36                 | 17.52                    | 17.52                  |                     |          |  |
| 10                    | 16QAM      | 1       | 0         | 17.69                 | 17.72                    | 17.89                  |                     |          |  |
| 10                    | 64QAM      | 1       | 25        | 17.99                 | 17.86                    | 17.87                  | 19                  | 0        |  |
| 10                    | 64QAM      | 1       | 49        | 17.73                 | 17.83                    | 17.86                  |                     |          |  |
| 10                    | 64QAM      | 25      | 0         | 17.28                 | 17.31                    | 17.54                  |                     |          |  |
| 10                    | 64QAM      | 25      | 12        | 17.54                 | 17.74                    | 17.53                  | 19                  | 0        |  |
| 10                    | 64QAM      | 25      | 25        | 17.33                 | 17.54                    | 17.45                  |                     |          |  |
| 10                    | 64QAM      | 50      | 0         | 17.11                 | 17.31                    | 17.23                  |                     |          |  |
| Channel               |            |         |           | 20917.5               | 21100                    | 21300                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)       |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5                     | QPSK       | 1       | 0         | 17.76                 | 17.83                    | 18.06                  | 19                  | 0        |  |
| 5                     | QPSK       | 1       | 12        | 17.84                 | 18.01                    | 17.63                  |                     |          |  |
| 5                     | QPSK       | 1       | 24        | 17.79                 | 17.94                    | 17.94                  |                     |          |  |
| 5                     | QPSK       | 12      | 0         | 17.59                 | 17.79                    | 17.70                  | 19                  | 0        |  |
| 5                     | QPSK       | 12      | 7         | 17.65                 | 17.55                    | 17.76                  |                     |          |  |
| 5                     | QPSK       | 12      | 13        | 17.55                 | 17.64                    | 17.78                  |                     |          |  |
| 5                     | 16QAM      | 1       | 0         | 17.58                 | 17.43                    | 17.55                  | 19                  | 0        |  |
| 5                     | 16QAM      | 1       | 0         | 17.38                 | 17.30                    | 17.34                  |                     |          |  |
| 5                     | 16QAM      | 1       | 12        | 17.13                 | 17.19                    | 17.45                  |                     |          |  |
| 5                     | 16QAM      | 1       | 24        | 17.43                 | 17.27                    | 17.60                  | 19                  | 0        |  |
| 5                     | 16QAM      | 12      | 0         | 17.57                 | 17.37                    | 17.43                  |                     |          |  |
| 5                     | 16QAM      | 12      | 7         | 17.69                 | 17.45                    | 17.56                  |                     |          |  |
| 5                     | 16QAM      | 12      | 13        | 17.44                 | 17.39                    | 17.54                  | 19                  | 0        |  |
| 5                     | 16QAM      | 25      | 0         | 17.83                 | 17.75                    | 18.07                  |                     |          |  |
| 5                     | 64QAM      | 1       | 0         | 18.01                 | 18.00                    | 18.00                  |                     |          |  |
| 5                     | 64QAM      | 1       | 12        | 17.81                 | 17.94                    | 17.93                  | 19                  | 0        |  |
| 5                     | 64QAM      | 1       | 24        | 17.58                 | 17.85                    | 17.68                  |                     |          |  |
| 5                     | 64QAM      | 12      | 0         | 17.57                 | 17.62                    | 17.82                  |                     |          |  |
| 5                     | 64QAM      | 12      | 7         | 17.46                 | 17.46                    | 17.68                  | 19                  | 0        |  |
| 5                     | 64QAM      | 12      | 13        | 17.32                 | 17.44                    | 17.32                  |                     |          |  |
| 5                     | 64QAM      | 25      | 0         | 17.46                 | 17.44                    | 17.56                  |                     |          |  |



| Full Power                            |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 24 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|----|
| CA 7C                                 |             |            |         |           |         |           |                      |       |                     |                     |    |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |    |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |    |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |    |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 23.12                | 24.00 |                     |                     |    |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 23.12                | 24.00 |                     |                     |    |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 23.04                | 24.00 |                     |                     |    |
| 20850                                 | 21048       | 16QAM      | 1       | 99        | 1       | 0         | 22.01                | 23.00 |                     |                     |    |
| 21100                                 | 20902       | 16QAM      | 1       | 0         | 1       | 99        | 22.12                | 23.00 |                     |                     |    |
| 21350                                 | 21152       | 16QAM      | 1       | 0         | 1       | 99        | 22.14                | 23.00 |                     |                     |    |
| 20850                                 | 21048       | 64QAM      | 1       | 99        | 1       | 0         | 21.11                | 22.00 |                     |                     |    |
| 21100                                 | 20902       | 64QAM      | 1       | 0         | 1       | 99        | 21.23                | 22.00 |                     |                     |    |
| 21350                                 | 21152       | 64QAM      | 1       | 0         | 1       | 99        | 21.04                | 22.00 |                     |                     |    |

| Full Power                            |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 24 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|----|
| UL Intra Band CA                      |             |            |         |           |         |           |                      |       |                     |                     |    |
| CA 38C                                |             |            |         |           |         |           |                      |       |                     |                     |    |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |    |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |    |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |    |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 22.77                | 24.00 |                     |                     |    |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 22.56                | 24.00 |                     |                     |    |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 22.74                | 24.00 |                     |                     |    |
| 37850                                 | 38048       | 16QAM      | 1       | 99        | 1       | 0         | 21.65                | 23.00 |                     |                     |    |
| 37901                                 | 38099       | 16QAM      | 1       | 99        | 1       | 0         | 21.55                | 23.00 |                     |                     |    |
| 38150                                 | 37952       | 16QAM      | 1       | 0         | 1       | 99        | 21.45                | 23.00 |                     |                     |    |
| 37850                                 | 38048       | 64QAM      | 1       | 99        | 1       | 0         | 20.45                | 22.00 |                     |                     |    |
| 37901                                 | 38099       | 64QAM      | 1       | 99        | 1       | 0         | 20.55                | 22.00 |                     |                     |    |
| 38150                                 | 37952       | 64QAM      | 1       | 0         | 1       | 99        | 20.54                | 22.00 |                     |                     |    |

| Full Power                            |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 24 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|----|
| CA 41C                                |             |            |         |           |         |           |                      |       |                     |                     |    |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |    |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |    |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |    |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 22.67                | 24.00 |                     |                     |    |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 22.66                | 24.00 |                     |                     |    |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 22.81                | 24.00 |                     |                     |    |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 22.66                | 24.00 |                     |                     |    |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 22.54                | 24.00 |                     |                     |    |
| 39750                                 | 39948       | 16QAM      | 1       | 99        | 1       | 0         | 21.77                | 23.00 |                     |                     |    |
| 40185                                 | 39987       | 16QAM      | 1       | 0         | 1       | 99        | 21.67                | 23.00 |                     |                     |    |
| 40620                                 | 40422       | 16QAM      | 1       | 0         | 1       | 99        | 21.55                | 23.00 |                     |                     |    |
| 41055                                 | 41253       | 16QAM      | 1       | 99        | 1       | 0         | 21.78                | 23.00 |                     |                     |    |
| 41490                                 | 41292       | 16QAM      | 1       | 0         | 1       | 99        | 21.66                | 23.00 |                     |                     |    |
| 39750                                 | 39948       | 64QAM      | 1       | 99        | 1       | 0         | 20.78                | 22.00 |                     |                     |    |
| 40185                                 | 39987       | 64QAM      | 1       | 0         | 1       | 99        | 20.66                | 22.00 |                     |                     |    |
| 40620                                 | 40422       | 64QAM      | 1       | 0         | 1       | 99        | 20.75                | 22.00 |                     |                     |    |
| 41055                                 | 41253       | 64QAM      | 1       | 99        | 1       | 0         | 20.80                | 22.00 |                     |                     |    |
| 41490                                 | 41292       | 64QAM      | 1       | 0         | 1       | 99        | 20.66                | 22.00 |                     |                     |    |

| Body Worn                             |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 16.5 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|------|
| CA 7C                                 |             |            |         |           |         |           |                      |       |                     |                     |      |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |      |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |      |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 15.58                | 16.50 |                     |                     |      |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 15.67                | 16.50 |                     |                     |      |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 15.38                | 16.50 |                     |                     |      |
| 20850                                 | 21048       | 16QAM      | 1       | 99        | 1       | 0         | 15.66                | 16.50 |                     |                     |      |
| 21100                                 | 20902       | 16QAM      | 1       | 0         | 1       | 99        | 15.45                | 16.50 |                     |                     |      |
| 21350                                 | 21152       | 16QAM      | 1       | 0         | 1       | 99        | 15.62                | 16.50 |                     |                     |      |
| 20850                                 | 21048       | 64QAM      | 1       | 99        | 1       | 0         | 15.34                | 16.50 |                     |                     |      |
| 21100                                 | 20902       | 64QAM      | 1       | 0         | 1       | 99        | 15.56                | 16.50 |                     |                     |      |
| 21350                                 | 21152       | 64QAM      | 1       | 0         | 1       | 99        | 15.58                | 16.50 |                     |                     |      |

| Body Worn                             |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 18.5 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|------|
| CA 38C                                |             |            |         |           |         |           |                      |       |                     |                     |      |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |      |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |      |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.23                | 18.50 |                     |                     |      |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.33                | 18.50 |                     |                     |      |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.04                | 18.50 |                     |                     |      |
| 37850                                 | 38048       | 16QAM      | 1       | 99        | 1       | 0         | 17.01                | 18.50 |                     |                     |      |
| 37901                                 | 38099       | 16QAM      | 1       | 99        | 1       | 0         | 17.30                | 18.50 |                     |                     |      |
| 38150                                 | 37952       | 16QAM      | 1       | 0         | 1       | 99        | 17.24                | 18.50 |                     |                     |      |
| 37850                                 | 38048       | 64QAM      | 1       | 99        | 1       | 0         | 17.24                | 18.50 |                     |                     |      |
| 37901                                 | 38099       | 64QAM      | 1       | 99        | 1       | 0         | 17.30                | 18.50 |                     |                     |      |
| 38150                                 | 37952       | 64QAM      | 1       | 0         | 1       | 99        | 17.32                | 18.50 |                     |                     |      |

| Body Worn                             |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 18.5 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|------|
| CA 41C                                |             |            |         |           |         |           |                      |       |                     |                     |      |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |      |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |      |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 17.21                | 18.50 |                     |                     |      |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.26                | 18.50 |                     |                     |      |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.42                | 18.50 |                     |                     |      |
| 41055                                 | 41253       | QPSK       | 1       | 99        | 1       | 0         | 17.26                | 18.50 |                     |                     |      |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.27                | 18.50 |                     |                     |      |
| 39750                                 | 39948       | 16QAM      | 1       | 99        | 1       | 0         | 17.39                | 18.50 |                     |                     |      |
| 40185                                 | 39987       | 16QAM      | 1       | 0         | 1       | 99        | 17.11                | 18.50 |                     |                     |      |
| 40620                                 | 40422       | 16QAM      | 1       | 0         | 1       | 99        | 17.37                | 18.50 |                     |                     |      |
| 41055                                 | 41253       | 16QAM      | 1       | 99        | 1       | 0         | 17.20                | 18.50 |                     |                     |      |
| 41490                                 | 41292       | 16QAM      | 1       | 0         | 1       | 99        | 17.04                | 18.50 |                     |                     |      |
| 39750                                 | 39948       | 64QAM      | 1       | 99        | 1       | 0         | 17.39                | 18.50 |                     |                     |      |
| 40185                                 | 39987       | 64QAM      | 1       | 0         | 1       | 99        | 17.05                | 18.50 |                     |                     |      |
| 40620                                 | 40422       | 64QAM      | 1       | 0         | 1       | 99        | 17.06                | 18.50 |                     |                     |      |
| 41055                                 | 41253       | 64QAM      | 1       | 99        | 1       | 0         | 17.27                | 18.50 |                     |                     |      |
| 41490                                 | 41292       | 64QAM      | 1       | 0         | 1       | 99        | 17.13                | 18.50 |                     |                     |      |

| Hotspot                               |             |            |         |           |         |           |                      |       |                     | Tune up Power (dBm) | 14 |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|-------|---------------------|---------------------|----|
| CA 7C                                 |             |            |         |           |         |           |                      |       |                     |                     |    |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |       |                     |                     |    |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) |       | Tune up Power (dBm) |                     |    |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |       |                     |                     |    |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 13.36                | 14.00 |                     |                     |    |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 13.37                | 14.00 |                     |                     |    |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 13.12                | 14.00 |                     |                     |    |
| 20850                                 | 21048       | 16QAM      | 1       | 99        | 1       | 0         | 13.23                | 14.00 |                     |                     |    |
| 21100                                 | 20902       | 16QAM      | 1       | 0         | 1       | 99        | 13.10                | 14.00 |                     |                     |    |
| 21350                                 | 21152       | 16QAM      | 1       | 0         | 1       | 99        | 13.31                | 14.00 |                     |                     |    |
| 20850                                 | 21048       | 64QAM      | 1       | 99        | 1       | 0         | 13.00                | 14.00 |                     |                     |    |
| 21100                                 | 20902       | 64QAM      | 1       | 0         | 1       | 99        | 13.19                | 14.00 |                     |                     |    |
| 21350                                 | 21152       | 64QAM      | 1       | 0         | 1       | 99        | 13.17                | 14.00 |                     |                     |    |

| Hotspot                               |             |            |         |           |         |           | Tune up Power (dBm)  |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| CA 38C                                |             |            |         |           |         |           |                      |                     |
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 14.33                | 15.50               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 14.55                | 15.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 14.28                | 15.50               |
| 37850                                 | 38048       | 16QAM      | 1       | 99        | 1       | 0         | 14.08                | 15.50               |
| 37901                                 | 38099       | 16QAM      | 1       | 99        | 1       | 0         | 14.32                | 15.50               |
| 38150                                 | 37952       | 16QAM      | 1       | 0         | 1       | 99        | 14.48                | 15.50               |
| 37850                                 | 38048       | 64QAM      | 1       | 99        | 1       | 0         | 14.54                | 15.50               |
| 37901                                 | 38099       | 64QAM      | 1       | 99        | 1       | 0         | 14.51                | 15.50               |
| 38150                                 | 37952       | 64QAM      | 1       | 0         | 1       | 99        | 14.50                | 15.50               |

## 2CA DL

| Configure      | CA List    | PCC        |         |             |         |        |       |           |                          | SCC     |         |             |         |                          | Power          |                |       |
|----------------|------------|------------|---------|-------------|---------|--------|-------|-----------|--------------------------|---------|---------|-------------|---------|--------------------------|----------------|----------------|-------|
|                |            | LTE        | BW      | UL          | UL      | Mod.   | UL#   | UL        | DL Antenna Configuration | LTE     | BW      | DL          | DL      | DL Antenna Configuration | With CA        | Without CA     |       |
|                |            | Band       | (MHz)   | Freq. (MHz) | Channel |        | RB    | RB Offset |                          | Band    | (MHz)   | Freq. (MHz) | Channel |                          | Tx Power (dbm) | Tx Power (dbm) |       |
| Inter-Band     | CA_4A-5A   | Band 4     | 20M     | 1732.5      | 20175   | QPSK   | 1     | 0         | 4xMIMO                   | Band 5  | 10M     | 881.5       | 2525    | 4xMIMO                   | 22.56          | 22.67          |       |
|                |            | Band 5     | 10M     | 836.5       | 20525   | QPSK   | 1     | 0         | 4xMIMO                   | Band 4  | 20M     | 2132.5      | 2175    | 4xMIMO                   | 22.55          | 22.68          |       |
|                | CA_4A-7A   | Band 4     | 20M     | 1732.5      | 20175   | QPSK   | 1     | 0         | 4xMIMO                   | Band 7  | 20M     | 2655        | 3100    | 4xMIMO                   | 22.64          | 22.67          |       |
|                |            | Band 7     | 20M     | 2535        | 21100   | QPSK   | 1     | 0         | 4xMIMO                   | Band 4  | 20M     | 2132.5      | 2175    | 4xMIMO                   | 23.12          | 23.22          |       |
|                | CA_4A-12A  | Band 4     | 20M     | 1732.5      | 20175   | QPSK   | 1     | 0         | 4xMIMO                   | Band 12 | 10M     | 737.5       | 5895    | 4xMIMO                   | 22.55          | 22.67          |       |
|                |            | Band 12    | 10M     | 707.5       | 23965   | QPSK   | 1     | 0         | 4xMIMO                   | Band 4  | 20M     | 2132.5      | 2175    | 4xMIMO                   | 22.59          | 22.66          |       |
|                | CA_4A-17A  | Band 4     | 10M     | 1732.5      | 20175   | QPSK   | 1     | 0         | 4xMIMO                   | Band 17 | 10M     | 740         | 5790    | 4xMIMO                   | 22.12          | 22.23          |       |
|                |            | Band 17    | 10M     | 710         | 23790   | QPSK   | 1     | 0         | 4xMIMO                   | Band 4  | 10M     | 2132.5      | 2175    | 4xMIMO                   | 23.04          | 22.91          |       |
|                | CA_2A-5A   | Band 2     | 20M     | 1880        | 18900   | QPSK   | 1     | 0         | 4xMIMO                   | Band 5  | 10M     | 881.5       | 2525    | 4xMIMO                   | 22.66          | 22.73          |       |
|                |            | Band 5     | 10M     | 836.5       | 20525   | QPSK   | 1     | 0         | 4xMIMO                   | Band 2  | 20M     | 1960        | 900     | 4xMIMO                   | 22.45          | 22.68          |       |
|                | CA_5A-7A   | Band 5     | 10M     | 836.5       | 20525   | QPSK   | 1     | 0         | 4xMIMO                   | Band 7  | 20M     | 2655        | 3100    | 4xMIMO                   | 22.54          | 22.68          |       |
|                |            | Band 7     | 20M     | 2535        | 21100   | QPSK   | 1     | 0         | 4xMIMO                   | Band 5  | 10M     | 881.5       | 2525    | 4xMIMO                   | 23.12          | 23.22          |       |
|                | CA_5A-38A  | Band 5     | 10M     | 836.5       | 20525   | QPSK   | 1     | 0         | 4xMIMO                   | Band 38 | 20M     | 2595        | 38000   | 4xMIMO                   | 22.55          | 22.68          |       |
|                |            | Band 38    | 20M     | 2595        | 38000   | QPSK   | 1     | 0         | 4xMIMO                   | Band 5  | 10M     | 881.5       | 2525    | 4xMIMO                   | 22.76          | 22.87          |       |
|                | CA_5A-41A  | Band 5     | 10M     | 836.5       | 20525   | QPSK   | 1     | 0         | 4xMIMO                   | Band 41 | 20M     | 2593        | 40620   | 4xMIMO                   | 22.66          | 22.68          |       |
|                |            | Band 41    | 20M     | 2593        | 40620   | QPSK   | 1     | 0         | 4xMIMO                   | Band 5  | 10M     | 881.5       | 2525    | 4xMIMO                   | 22.76          | 22.89          |       |
|                | CA_26A-41A | Band 26    | 10M     | 831.5       | 20965   | QPSK   | 1     | 0         | 4xMIMO                   | Band 41 | 20M     | 2593        | 40620   | 4xMIMO                   | 22.65          | 22.76          |       |
|                |            | Band 41    | 20M     | 2593        | 40620   | QPSK   | 1     | 0         | 4xMIMO                   | Band 26 | 10M     | 876.5       | 8865    | 4xMIMO                   | 22.65          | 22.89          |       |
|                | Intra-Band | Contiguous | CA_7B   | Band 7      | 15M     | 2535   | 21100 | QPSK      | 1                        | 0       | 4xMIMO  | Band 7      | 5M      | 2664.3                   | 3193           | 4xMIMO         | 23.01 |
| CA_38C         |            |            | Band 38 | 20M         | 2585.1  | 37901  | QPSK  | 1         | 0                        | 4xMIMO  | Band 38 | 20M         | 2604.9  | 38099                    | 4xMIMO         | 22.65          | 22.87 |
| CA_66B         |            |            | Band 66 | 15M         | 1745    | 132322 | QPSK  | 1         | 0                        | 4xMIMO  | Band 66 | 5M          | 2164.3  | 66979                    | 4xMIMO         | 22.34          | 22.40 |
| Non-Contiguous |            | CA_66C     | Band 66 | 20M         | 1745    | 132322 | QPSK  | 1         | 0                        | 4xMIMO  | Band 66 | 20M         | 2174.8  | 67084                    | 4xMIMO         | 22.56          | 22.72 |
|                |            | CA_4A-4A   | Band 4  | 20M         | 1732.5  | 20175  | QPSK  | 1         | 0                        | 4xMIMO  | Band 4  | 5M          | 2152.5  | 2375                     | 4xMIMO         | 22.66          | 22.67 |
|                |            | CA_41A-41A | Band 41 | 20M         | 2593    | 40620  | QPSK  | 1         | 0                        | 4xMIMO  | Band 41 | 5M          | 2687.5  | 41660                    | 4xMIMO         | 22.99          | 22.89 |

## 3CA DL

| Configure  |                |         | PCC     |       |             |         |      |     |         |                          | SCC1    |        |             |         |                          | SCC2    |        |             |         |                          | Power          |                |
|------------|----------------|---------|---------|-------|-------------|---------|------|-----|---------|--------------------------|---------|--------|-------------|---------|--------------------------|---------|--------|-------------|---------|--------------------------|----------------|----------------|
|            |                |         | LTE     | BW    | UL          | UL      | Mod  | UL# | UL      | DL Antenna Configuration | LTE     | BW     | DL          | DL      | DL Antenna Configuration | LTE     | BW     | DL          | DL      | DL Antenna Configuration | With CA        | Without CA     |
|            |                |         | Band    | (MHz) | Freq. (MHz) | Channel |      | RB  | Offset  |                          | Band    | (MHz)  | Freq. (MHz) | Channel |                          | Band    | (MHz)  | Freq. (MHz) | Channel |                          | Tx Power (dBm) | Tx Power (dBm) |
| Inter-Band | CA_2A-7A-7A    | CA_41D  | Band 2  | 20M   | 1880        | 18900   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M    | 2687.5      | 3425    | 4x4MIMO                  | 22.85          | 22.73          |
|            |                |         | Band 7  | 20M   | 2535        | 21100   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2687.5      | 3425    | 4x4MIMO                  | Band 2  | 20M    | 1960        | 900     | 4x4MIMO                  | 23.12          | 23.22          |
|            | CA_2A-7C       | CA_41D  | Band 2  | 20M   | 1880        | 18900   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M    | 2674.8      | 3298    | 4x4MIMO                  | 22.88          | 22.73          |
|            |                |         | Band 7  | 20M   | 2535        | 21100   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2674.8      | 3298    | 4x4MIMO                  | Band 2  | 20M    | 1960        | 900     | 4x4MIMO                  | 22.2           | 23.22          |
|            | CA_4A-7C       | CA_41D  | Band 4  | 20M   | 1732.5      | 20175   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M    | 2674.8      | 3298    | 4x4MIMO                  | 22.36          | 22.67          |
|            |                |         | Band 7  | 20M   | 2535        | 21100   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2674.8      | 3298    | 4x4MIMO                  | Band 4  | 20M    | 2132.5      | 2175    | 4x4MIMO                  | 23.12          | 23.22          |
|            | CA_5A-7C       | CA_41D  | Band 5  | 10M   | 836.5       | 20525   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2655        | 3100    | 4x4MIMO                  | Band 7  | 20M    | 2674.8      | 3298    | 4x4MIMO                  | 22.85          | 22.68          |
|            |                |         | Band 7  | 20M   | 2535        | 21100   | QPSK | 1   | 0       | 4x4MIMO                  | Band 7  | 20M    | 2674.8      | 3298    | 4x4MIMO                  | Band 5  | 10M    | 881.5       | 2525    | 4x4MIMO                  | 23.09          | 23.22          |
|            | CA_5A-6A-66A   | CA_41D  | Band 5  | 10M   | 836.5       | 20525   | QPSK | 1   | 0       | 4x4MIMO                  | Band 66 | 20M    | 2155        | 66886   | 4x4MIMO                  | Band 66 | 20M    | 2197.5      | 67311   | 4x4MIMO                  | 22.86          | 22.68          |
|            |                |         | Band 66 | 20M   | 1745        | 132322  | QPSK | 1   | 0       | 4x4MIMO                  | Band 66 | 20M    | 2197.5      | 67311   | 4x4MIMO                  | Band 5  | 10M    | 881.5       | 2525    | 4x4MIMO                  | 22.85          | 22.72          |
|            | CA_12A-66A-66A | CA_41D  | Band 12 | 10M   | 707.5       | 23095   | QPSK | 1   | 0       | 4x4MIMO                  | Band 66 | 20M    | 2155        | 66886   | 4x4MIMO                  | Band 66 | 20M    | 2197.5      | 67311   | 4x4MIMO                  | 22.89          | 22.96          |
|            |                |         | Band 66 | 20M   | 1745        | 132322  | QPSK | 1   | 0       | 4x4MIMO                  | Band 66 | 20M    | 2197.5      | 67311   | 4x4MIMO                  | Band 12 | 10M    | 737.5       | 5095    | 4x4MIMO                  | 22.85          | 22.72          |
| CA_2A-41C  | CA_41D         | Band 26 | 15M     | 831.5 | 26865       | QPSK    | 1    | 0   | 4x4MIMO | Band 41                  | 20M     | 2593   | 40620       | 4x4MIMO | Band 41                  | 20M     | 2612.8 | 2791        | 4x4MIMO | 22.85                    | 22.76          |                |
|            |                | Band 41 | 20M     | 2593  | 40620       | QPSK    | 1    | 0   | 4x4MIMO | Band 41                  | 20M     | 2612.8 | 40818       | 4x4MIMO | Band 26                  | 15M     | 876.5  | 8865        | 4x4MIMO | 22.86                    | 22.89          |                |
|            |                | Band 41 | 20M     | 2593  | 40620       | QPSK    | 1    | 0   | 4x4MIMO | Band 41                  | 20M     | 2612.8 | 2791        | 4x4MIMO | Band 41                  | 20M     | 2632.6 | 2989        | 4x4MIMO | 22.77                    | 22.89          |                |
| Intra-Band | Contiguous     | CA_41D  |         |       |             |         |      |     |         |                          |         |        |             |         |                          |         |        |             |         |                          |                |                |



SCA DL

| Configure  |               | POC     |       |       |         |      |     |        |                          | SCC1    |       |        |         | SCC2                     |        |       |        | SCC3    |                          |         |       | SCC4  |         |                          |          | Power      |        |       |         |       |       |
|------------|---------------|---------|-------|-------|---------|------|-----|--------|--------------------------|---------|-------|--------|---------|--------------------------|--------|-------|--------|---------|--------------------------|---------|-------|-------|---------|--------------------------|----------|------------|--------|-------|---------|-------|-------|
|            |               | LTE     | BW    | UL    |         | Mod. | UL# |        | DL Antenna Configuration | LTE     | BW    | DL     |         | DL Antenna Configuration | LTE    | BW    | DL     |         | DL Antenna Configuration | LTE     | BW    | DL    |         | DL Antenna Configuration | With CA  | Without CA |        |       |         |       |       |
|            |               | Band    | (MHz) | Freq. | Channel |      | RB  | Offset |                          | Band    | (MHz) | Freq.  | Channel |                          | Band   | (MHz) | Freq.  | Channel |                          | Band    | (MHz) | Freq. | Channel |                          | Tx Power | Tx Power   |        |       |         |       |       |
|            |               |         |       | (MHz) |         |      |     |        |                          |         |       | (MHz)  |         |                          |        |       | (MHz)  |         |                          |         |       | (MHz) |         |                          |          |            | (MHz)  |       |         |       |       |
| Inter-Band | SA_7C_86A_86A | Band 5  | 10M   | 836.5 | 20525   | QPSK | 1   | 0      |                          | Band 7  | 20M   | 2655   | 3100    | 4x4MMMO                  | Band 7 | 20M   | 2674.8 | 3298    | 4x4MMMO                  | Band 66 | 20M   | 2145  | 66786   | 4x4MMMO                  | Band 66  | 8M         | 2177.5 | 67111 | 4x4MMMO | 22.66 | 22.68 |
|            |               | Band 7  | 20M   | 2535  | 21100   | QPSK | 1   | 0      | 4x4MMMO                  | Band 7  | 20M   | 2554.8 | 21298   | 4x4MMMO                  | Band 5 | 10M   | 861.5  | 2525    |                          | Band 66 | 20M   | 2145  | 66786   | 4x4MMMO                  | Band 66  | 8M         | 2177.5 | 67111 | 4x4MMMO | 23.00 | 23.22 |
|            |               | Band 66 | 20M   | 1745  | 132322  | QPSK | 1   | 0      | 4x4MMMO                  | Band 66 | 8M    | 2177.5 | 67111   | 4x4MMMO                  | Band 5 | 10M   | 861.5  | 2525    |                          | Band 7  | 20M   | 2655  | 3100    | 4x4MMMO                  | Band 7   | 20M        | 2674.8 | 3298  | 4x4MMMO | 22.67 | 22.72 |



Full Power

| n5              |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 166800                      | 167300                         | 167800                       |                        |             |  |
| Frequency (MHz) |            |         |           | 834                         | 836.5                          | 839                          |                        |             |  |
| 20              | P12 BPSK   | 1       | 1         | 22.32                       | 22.31                          | 22.30                        | 24.0                   | 0.0         |  |
| 20              | P12 BPSK   | 1       | 53        | 22.13                       | 22.11                          | 22.10                        |                        |             |  |
| 20              | P12 BPSK   | 1       | 104       | 21.93                       | 21.93                          | 21.90                        |                        |             |  |
| 20              | P12 BPSK   | 50      | 0         | 21.62                       | 21.59                          | 21.58                        | 23.5                   | 0.5         |  |
| 20              | P12 BPSK   | 50      | 28        | 21.88                       | 22.02                          | 22.03                        | 24.0                   | 0.0         |  |
| 20              | P12 BPSK   | 50      | 58        | 21.60                       | 21.45                          | 21.50                        | 23.5                   | 0.5         |  |
| 20              | P12 BPSK   | 100     | 0         | 21.49                       | 21.51                          | 21.49                        |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.20                       | 22.17                          | 22.14                        |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.03                       | 22.33                          | 22.23                        | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 21.87                       | 21.96                          | 21.89                        | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.13                       | 21.11                          | 21.07                        |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.10                       | 22.11                          | 22.05                        | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 58        | 20.88                       | 20.93                          | 20.95                        | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.10                       | 21.16                          | 21.02                        |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.06                       | 21.05                          | 21.05                        | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 19.72                       | 19.74                          | 19.76                        | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 17.68                       | 17.68                          | 17.72                        | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 166300                      | 167300                         | 168300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5                       | 836.5                          | 841.5                        |                        |             |  |
| 15              | QPSK       | 1       | 40        | 21.97                       | 21.89                          | 21.92                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 166800                      | 167300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 829                         | 836.5                          | 844                          |                        |             |  |
| 10              | QPSK       | 1       | 28        | 21.91                       | 21.86                          | 21.88                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 165300                      | 167300                         | 169300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        |                        |             |  |
| 5               | QPSK       | 1       | 13        | 21.89                       | 21.89                          | 21.86                        | 24.0                   | 0.0         |  |

| n7              |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 502000                      | 507000                         | 512000                       |                        |             |  |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |  |
| 20              | P12 BPSK   | 1       | 1         | 22.19                       | 22.71                          | 22.75                        | 24.0                   | 0.0         |  |
| 20              | P12 BPSK   | 1       | 53        | 22.65                       | 22.62                          | 22.61                        |                        |             |  |
| 20              | P12 BPSK   | 1       | 104       | 22.16                       | 22.17                          | 22.22                        |                        |             |  |
| 20              | P12 BPSK   | 50      | 0         | 22.10                       | 22.06                          | 22.09                        | 23.5                   | 0.5         |  |
| 20              | P12 BPSK   | 50      | 28        | 22.58                       | 22.55                          | 22.59                        | 24.0                   | 0.0         |  |
| 20              | P12 BPSK   | 50      | 58        | 21.98                       | 21.95                          | 21.97                        | 23.5                   | 0.5         |  |
| 20              | P12 BPSK   | 100     | 0         | 22.07                       | 22.04                          | 22.02                        |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.75                       | 22.76                          | 22.76                        |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.65                       | 22.77                          | 22.71                        | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.46                       | 22.51                          | 22.40                        | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.68                       | 21.65                          | 21.69                        |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.65                       | 22.72                          | 22.71                        | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 58        | 21.53                       | 21.55                          | 21.56                        | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.64                       | 21.66                          | 21.65                        |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.66                       | 21.64                          | 21.59                        | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 20.09                       | 20.12                          | 20.09                        | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 18.09                       | 18.13                          | 18.18                        | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |  |
| 15              | QPSK       | 1       | 40        | 22.61                       | 22.63                          | 22.60                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |  |
| 10              | QPSK       | 1       | 28        | 22.70                       | 22.65                          | 22.65                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |  |
| 5               | QPSK       | 1       | 13        | 22.67                       | 22.58                          | 22.63                        | 24.0                   | 0.0         |  |

| n66             |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 344000                      | 349000                         | 354000                       |                        |             |  |
| Frequency (MHz) |            |         |           | 1720                        | 1745                           | 1770                         |                        |             |  |
| 20              | P12 BPSK   | 1       | 1         | 22.90                       | 22.91                          | 22.99                        | 24.0                   | 0.0         |  |
| 20              | P12 BPSK   | 1       | 53        | 22.67                       | 22.72                          | 22.87                        |                        |             |  |
| 20              | P12 BPSK   | 1       | 104       | 22.76                       | 22.71                          | 22.78                        |                        |             |  |
| 20              | P12 BPSK   | 50      | 0         | 22.23                       | 22.35                          | 22.32                        | 23.5                   | 0.5         |  |
| 20              | P12 BPSK   | 50      | 28        | 22.77                       | 22.85                          | 22.78                        | 24.0                   | 0.0         |  |
| 20              | P12 BPSK   | 50      | 58        | 22.21                       | 22.27                          | 22.12                        | 23.5                   | 0.5         |  |
| 20              | P12 BPSK   | 100     | 0         | 22.20                       | 22.31                          | 22.23                        |                        |             |  |
| 20              | QPSK       | 1       | 1         | 23.19                       | 23.25                          | 22.85                        |                        |             |  |
| 20              | QPSK       | 1       | 53        | 23.01                       | 23.26                          | 23.00                        | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 23.10                       | 23.03                          | 22.96                        | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 22.00                       | 22.03                          | 22.00                        |                        |             |  |
| 20              | QPSK       | 50      | 28        | 22.40                       | 22.96                          | 22.89                        | 24.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 58        | 21.78                       | 21.88                          | 21.93                        | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.87                       | 22.06                          | 22.00                        |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 22.00                       | 22.04                          | 21.93                        | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 21.12                       | 21.27                          | 21.12                        | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 19.22                       | 19.23                          | 19.20                        | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 343500                      | 349000                         | 354500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                      | 1745                           | 1772.5                       |                        |             |  |
| 15              | QPSK       | 1       | 40        | 23.12                       | 23.03                          | 23.00                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 343000                      | 349000                         | 355000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1715                        | 1745                           | 1775                         |                        |             |  |
| 10              | QPSK       | 1       | 28        | 23.02                       | 22.99                          | 23.01                        | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 342500                      | 349000                         | 355500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                      | 1745                           | 1777.5                       |                        |             |  |
| 5               | QPSK       | 1       | 13        | 23.11                       | 22.89                          | 23.12                        | 24.0                   | 0.0         |  |





| n5-For Head     |            |         |           |                                                                                                   |                        |                      |                     |          |  |
|-----------------|------------|---------|-----------|---------------------------------------------------------------------------------------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>166800                                                                               | Power Middle<br>167300 | Power High<br>167800 | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 834                                                                                               | 836.5                  | 839                  |                     |          |  |
| Frequency (MHz) |            |         |           |                                                                                                   |                        |                      |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 19.39                                                                                             | 19.39                  | 19.31                | 20.5                | 0.0      |  |
| 20              | PI/2 BPSK  | 1       | 53        | 19.32                                                                                             | 19.38                  | 19.35                |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 104       | 19.31                                                                                             | 19.24                  | 19.13                |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 0         | 19.35                                                                                             | 19.30                  | 19.22                | 20.5                | 0.0      |  |
| 20              | PI/2 BPSK  | 50      | 28        | 19.27                                                                                             | 19.24                  | 19.20                | 20.5                | 0.0      |  |
| 20              | PI/2 BPSK  | 50      | 56        | 19.21                                                                                             | 19.21                  | 19.15                | 20.5                | 0.0      |  |
| 20              | PI/2 BPSK  | 100     | 0         | 19.25                                                                                             | 19.27                  | 19.19                | 20.5                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 19.42                                                                                             | 19.57                  | 19.21                |                     |          |  |
| 20              | QPSK       | 1       | 53        | 19.37                                                                                             | 19.56                  | 19.14                |                     |          |  |
| 20              | QPSK       | 1       | 104       | 19.29                                                                                             | 19.34                  | 19.05                | 20.5                | 0.0      |  |
| 20              | QPSK       | 50      | 0         | 19.22                                                                                             | 19.31                  | 19.26                | 20.5                | 0.0      |  |
| 20              | QPSK       | 50      | 28        | 19.32                                                                                             | 19.33                  | 19.19                | 20.5                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 19.25                                                                                             | 19.22                  | 19.11                | 20.5                | 0.0      |  |
| 20              | QPSK       | 100     | 0         | 19.31                                                                                             | 19.33                  | 19.22                | 20.5                | 0.0      |  |
| 20              | 16QAM      | 1       | 1         | 19.30                                                                                             | 19.20                  | 19.29                | 20.5                | 0.0      |  |
| 20              | 64QAM      | 1       | 1         | 19.50                                                                                             | 19.58                  | 19.42                | 20.5                | 0.0      |  |
| 20              | 256QAM     | 1       | 1         | 19.99                                                                                             | 19.99                  | 18.88                | 19.5                | 1.0      |  |
| Channel         |            |         |           | 166300                                                                                            | 167900                 | 168300               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 831.5                                                                                             | 836.5                  | 841.5                |                     |          |  |
| 15              | QPSK       | 1       | 40        | 19.43                                                                                             | 19.45                  | 19.55                | 20.5                | 0.0      |  |
| Channel         |            |         |           | 165800 <th>167300</th> <th>168800</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> | 167300                 | 168800               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 829 <th>836.5</th> <th>844</th> <th colspan="3"></th>                                             | 836.5                  | 844                  |                     |          |  |
| 10              | QPSK       | 1       | 26        | 19.45                                                                                             | 19.55                  | 19.43                | 20.5                | 0.0      |  |
| Channel         |            |         |           | 165300 <th>167300</th> <th>169300</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> | 167300                 | 169300               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 826.5 <th>836.5</th> <th>846.5</th> <th colspan="3"></th>                                         | 836.5                  | 846.5                |                     |          |  |
| 5               | QPSK       | 1       | 13        | 19.45                                                                                             | 19.44                  | 19.32                | 20.5                | 0.0      |  |

Reduced Power Mode for Receiver On / Sensor On / Hotspot On / Handheld On (EN-DC)

| n5-Body Worn    |            |         |           |                     |                         |                      |                        |             |  |
|-----------------|------------|---------|-----------|---------------------|-------------------------|----------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>166800 | Power Midline<br>167300 | Power High<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                 | 836.5                   | 839                  |                        |             |  |
| Frequency (MHz) |            |         |           |                     |                         |                      |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 21.17               | 21.15                   | 21.01                | 22.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 21.13               | 21.12                   | 21.06                |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 21.11               | 21.07                   | 20.88                |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 21.08               | 21.06                   | 21.01                | 22.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 28        | 21.02               | 21.01                   | 20.99                | 22.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 21.01               | 20.90                   | 20.85                | 22.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 21.00               | 20.99                   | 20.95                | 22.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 21.04               | 21.19                   | 21.12                |                        |             |  |
| 20              | QPSK       | 1       | 53        | 21.23               | 21.47                   | 21.22                |                        |             |  |
| 20              | QPSK       | 1       | 104       | 20.96               | 20.96                   | 20.93                | 22.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 21.05               | 21.05                   | 21.03                | 22.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 28        | 21.07               | 21.05                   | 20.99                | 22.0                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 20.96               | 20.88                   | 20.89                | 22.0                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 21.06               | 21.06                   | 21.03                | 22.0                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 20.80               | 21.02                   | 21.46                | 22.0                   | 0.0         |  |
| 20              | 64QAM      | 1       | 1         | 20.72               | 20.92                   | 21.02                | 21.5                   | 0.5         |  |
| 20              | 256QAM     | 1       | 1         | 18.62               | 18.65                   | 18.64                | 19.5                   | 2.5         |  |
| Channel         |            |         |           | 166300              | 167300                  | 168300               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5               | 836.5                   | 841.5                |                        |             |  |
| 15              | QPSK       | 1       | 40        | 21.12               | 21.23                   | 21.22                | 22.0                   | 0.0         |  |
| Channel         |            |         |           | 166800              | 167300                  | 168300               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 829                 | 836.5                   | 844                  |                        |             |  |
| 10              | QPSK       | 1       | 26        | 21.24               | 21.13                   | 21.15                | 22.0                   | 0.0         |  |
| Channel         |            |         |           | 167300              | 167300                  | 168300               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 826.5               | 836.5                   | 846.5                |                        |             |  |
| 5               | QPSK       | 1       | 13        | 21.24               | 21.22                   | 21.25                | 22.0                   | 0.0         |  |

| n5- Hotspot     |            |         |           |                     |                         |                      |                        |             |  |
|-----------------|------------|---------|-----------|---------------------|-------------------------|----------------------|------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>166800 | Power Midline<br>167300 | Power High<br>167800 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 834                 | 836.5                   | 839                  |                        |             |  |
| Frequency (MHz) |            |         |           | 19.63               | 19.63                   | 19.58                |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 19.63               | 19.63                   | 19.58                | 20.5                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 19.55               | 19.57                   | 19.55                |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 19.53               | 19.43                   | 19.44                |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 19.50               | 19.50                   | 19.47                | 20.5                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 28        | 19.47               | 19.48                   | 19.48                | 20.5                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 19.45               | 19.48                   | 19.35                | 20.5                   | 0.0         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 19.48               | 19.55                   | 19.47                | 20.5                   | 0.0         |  |
| 20              | QPSK       | 1       | 1         | 19.62               | 19.65                   | 19.64                |                        |             |  |
| 20              | QPSK       | 1       | 53        | 19.88               | 19.97                   | 19.52                |                        |             |  |
| 20              | QPSK       | 1       | 104       | 19.50               | 19.47                   | 19.45                | 20.5                   | 0.0         |  |
| 20              | QPSK       | 50      | 0         | 19.60               | 19.51                   | 19.54                | 20.5                   | 0.0         |  |
| 20              | QPSK       | 50      | 28        | 19.57               | 19.61                   | 19.46                | 20.5                   | 0.0         |  |
| 20              | QPSK       | 50      | 56        | 19.39               | 19.48                   | 19.41                | 20.5                   | 0.0         |  |
| 20              | QPSK       | 100     | 0         | 19.47               | 19.59                   | 19.51                | 20.5                   | 0.0         |  |
| 20              | 16QAM      | 1       | 1         | 19.11               | 19.84                   | 19.92                |                        |             |  |
| 20              | 64QAM      | 1       | 1         | 19.79               | 19.57                   | 19.96                |                        |             |  |
| 20              | 256QAM     | 1       | 1         | 18.64               | 18.71                   | 18.72                | 19.5                   | 1.0         |  |
| Channel         |            |         |           | 166300              | 167900                  | 168300               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 831.5               | 836.5                   | 841.5                |                        |             |  |
| 15              | QPSK       | 1       | 40        | 19.87               | 19.88                   | 19.78                | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 165800              | 167300                  | 168800               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 829                 | 836.5                   | 844                  |                        |             |  |
| 10              | QPSK       | 1       | 26        | 19.78               | 19.88                   | 19.91                | 20.5                   | 0.0         |  |
| Channel         |            |         |           | 166300              | 167300                  | 169300               | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 826.5               | 836.5                   | 846.5                |                        |             |  |
| 5               | QPSK       | 1       | 13        | 19.69               | 19.83                   | 19.92                | 20.5                   | 0.0         |  |

| n7_For_Head     |            |         |           |                  |                     |                   |                     |          |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low 500000 | Power Middle 507000 | Power High 512000 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 2510             | 2535                | 2560              | 15.5                | 0.0      |
| Frequency (MHz) |            |         |           |                  |                     |                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 14.61            | 14.78               | 14.61             | 15.5                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 14.59            | 14.69               | 14.69             |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 14.60            | 14.62               | 14.68             | 15.5                | 0.0      |
| 20              | PI2 BPSK   | 50      | 0         | 14.67            | 14.68               | 14.60             |                     |          |
| 20              | PI2 BPSK   | 50      | 28        | 14.64            | 14.73               | 14.64             | 15.5                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 14.55            | 14.65               | 14.64             |                     |          |
| 20              | PI2 BPSK   | 100     | 0         | 14.54            | 14.64               | 14.59             | 15.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 14.64            | 14.67               | 14.60             |                     |          |
| 20              | QPSK       | 1       | 53        | 14.65            | 14.78               | 14.70             | 15.5                | 0.0      |
| 20              | QPSK       | 1       | 104       | 14.71            | 14.68               | 14.67             |                     |          |
| 20              | QPSK       | 50      | 0         | 14.57            | 14.61               | 14.58             | 15.5                | 0.0      |
| 20              | QPSK       | 50      | 28        | 14.62            | 14.65               | 14.58             |                     |          |
| 20              | QPSK       | 50      | 56        | 14.60            | 14.57               | 14.62             | 15.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 14.60            | 14.60               | 14.59             |                     |          |
| 20              | 16QAM      | 1       | 1         | 14.62            | 14.77               | 14.75             | 15.5                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 14.76            | 14.68               | 14.66             |                     |          |
| 20              | 256QAM     | 1       | 1         | 14.38            | 14.50               | 14.62             | 15.5                | 0.0      |
| Channel         |            |         |           | 2075.0           | 507000              | 512000            |                     |          |
| Frequency (MHz) |            |         |           | 2507.5           | 2535                | 2562.5            | 15.5                | 0.0      |
| 15              | QPSK       | 1       | 40        | 14.66            | 14.66               | 14.54             |                     |          |
| Channel         |            |         |           | 501000           | 507000              | 513000            | 15.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2504             | 2535                | 2565              |                     |          |
| 10              | QPSK       | 1       | 26        | 14.67            | 14.54               | 14.63             | 15.5                | 0.0      |
| Channel         |            |         |           | 500500           | 507000              | 513000            |                     |          |
| Frequency (MHz) |            |         |           | 2502.5           | 2535                | 2567.5            | 15.5                | 0.0      |
| 5               | QPSK       | 1       | 13        | 14.55            | 14.45               | 14.60             |                     |          |

| n7-Body Worn    |            |         |           |                     |                        |                      |                        |          |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|------------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>500000 | Power Middle<br>507000 | Power High<br>512000 | Tune-up limit<br>(dBm) | MPR (dB) |
| Channel         |            |         |           | 2510                | 2535                   | 2560                 | 16.5                   | 0.0      |
| Frequency (MHz) |            |         |           |                     |                        |                      |                        |          |
| 20              | PI2 BPSK   | 1       | 1         | 15.92               | 15.92                  | 15.99                | 16.5                   | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 15.84               | 15.87                  | 16.17                |                        |          |
| 20              | PI2 BPSK   | 1       | 104       | 15.85               | 15.90                  | 16.08                | 16.5                   | 0.0      |
| 20              | PI2 BPSK   | 50      | 0         | 15.89               | 15.85                  | 15.84                |                        |          |
| 20              | PI2 BPSK   | 50      | 28        | 15.78               | 15.87                  | 15.84                | 16.5                   | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 15.79               | 15.82                  | 16.02                |                        |          |
| 20              | PI2 BPSK   | 100     | 0         | 15.74               | 15.88                  | 15.91                | 16.5                   | 0.0      |
| 20              | QPSK       | 1       | 1         | 15.84               | 15.91                  | 15.96                |                        |          |
| 20              | QPSK       | 1       | 53        | 16.23               | 16.49                  | 16.01                | 16.5                   | 0.0      |
| 20              | QPSK       | 1       | 104       | 15.84               | 15.88                  | 16.09                |                        |          |
| 20              | QPSK       | 50      | 0         | 15.92               | 15.92                  | 15.88                | 16.5                   | 0.0      |
| 20              | QPSK       | 50      | 28        | 16.11               | 16.28                  | 15.91                |                        |          |
| 20              | QPSK       | 50      | 56        | 16.06               | 15.90                  | 16.07                | 16.5                   | 0.0      |
| 20              | QPSK       | 100     | 0         | 15.90               | 16.22                  | 16.04                |                        |          |
| 20              | 16QAM      | 1       | 1         | 16.11               | 15.85                  | 16.03                | 16.5                   | 0.0      |
| 20              | 64QAM      | 1       | 1         | 16.03               | 15.99                  | 16.01                |                        |          |
| 20              | 256QAM     | 1       | 1         | 16.03               | 15.93                  | 15.97                | 16.5                   | 0.0      |
| Channel         |            |         |           | 501500              | 507000                 | 512500               |                        |          |
| Frequency (MHz) |            |         |           | 2507.5              | 2535                   | 2562.5               | Tune-up limit<br>(dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 40        | 15.58               | 15.61                  | 15.77                | 15.5                   | 0.0      |
| Channel         |            |         |           | 501000              | 507000                 | 513000               |                        |          |
| Frequency (MHz) |            |         |           | 2505                | 2535                   | 2565                 | Tune-up limit<br>(dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 26        | 15.77               | 15.61                  | 15.84                | 16.5                   | 0.0      |
| Channel         |            |         |           | 500500              | 507000                 | 513000               |                        |          |
| Frequency (MHz) |            |         |           | 2502.5              | 2535                   | 2567.5               | Tune-up limit<br>(dBm) | MPR (dB) |
| 5               | QPSK       | 1       | 13        | 15.63               | 15.73                  | 15.58                | 16.5                   | 0.0      |

| n7- Hotspot     |            |         |           |                  |                     |                   |                     |          |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low 500000 | Power Middle 507000 | Power High 512000 | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 2510             | 2535                | 2560              | 15.0                | 0.0      |
| Frequency (MHz) |            |         |           |                  |                     |                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 13.82            | 13.88               | 13.85             | 15.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 13.85            | 13.90               | 13.92             |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 13.86            | 13.87               | 13.91             | 15.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 0         | 13.85            | 13.83               | 13.86             |                     |          |
| 20              | PI2 BPSK   | 50      | 28        | 13.82            | 13.85               | 13.88             | 15.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 13.75            | 13.82               | 13.90             |                     |          |
| 20              | PI2 BPSK   | 100     | 0         | 13.85            | 13.87               | 13.82             | 15.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 13.80            | 13.81               | 13.91             |                     |          |
| 20              | QPSK       | 1       | 53        | 14.07            | 14.19               | 13.92             | 15.0                | 0.0      |
| 20              | QPSK       | 1       | 104       | 13.85            | 13.83               | 13.97             |                     |          |
| 20              | QPSK       | 50      | 0         | 13.87            | 13.86               | 13.87             | 15.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 13.95            | 14.07               | 13.97             |                     |          |
| 20              | QPSK       | 50      | 56        | 13.78            | 13.84               | 13.83             | 15.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 13.43            | 13.97               | 13.89             |                     |          |
| 20              | 16QAM      | 1       | 1         | 13.98            | 14.11               | 13.88             | 15.0                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 13.66            | 13.93               | 13.99             |                     |          |
| 20              | 256QAM     | 1       | 1         | 14.17            | 14.04               | 13.85             | 15.0                | 0.0      |
| Channel         |            |         |           | 507500           | 507000              | 512000            |                     |          |
| Frequency (MHz) |            |         |           | 2507.5           | 2535                | 2562.5            | 15.5                | 0.0      |
| 15              | QPSK       | 1       | 40        | 14.05            | 14.06               | 14.04             |                     |          |
| Channel         |            |         |           | 501000           | 507000              | 513000            | 15.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2504             | 2535                | 2565              |                     |          |
| 10              | QPSK       | 1       | 26        | 14.07            | 14.06               | 14.04             | 15.0                | 0.0      |
| Channel         |            |         |           | 500500           | 507000              | 513000            |                     |          |
| Frequency (MHz) |            |         |           | 2502.5           | 2535                | 2567.5            | 15.0                | 0.0      |
| 5               | QPSK       | 1       | 13        | 14.05            | 14.05               | 14.02             |                     |          |



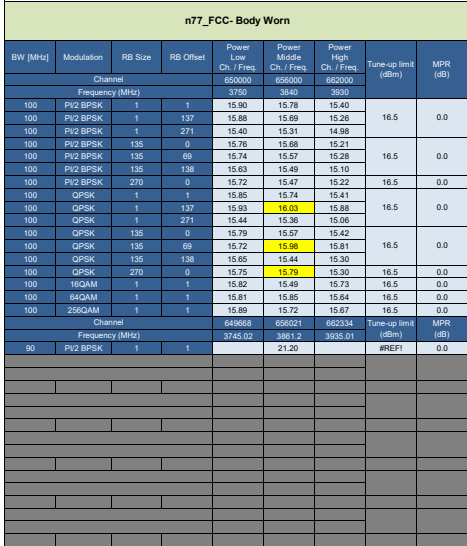
| n7-Handheld     |            |         |           |                  |                     |                   |                     |          |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low 500000 | Power Middle 507000 | Power High 512000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2510             | 2535                | 2560              | 19.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 1         | 17.62            | 17.45               | 17.38             |                     |          |
| 20              | PI2 BPSK   | 1       | 53        | 17.41            | 17.44               | 17.55             |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 17.38            | 17.38               | 17.45             |                     |          |
| 20              | PI2 BPSK   | 50      | 0         | 17.38            | 17.42               | 17.36             | 19.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 28        | 17.55            | 17.46               | 17.49             | 19.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 17.39            | 17.38               | 17.51             | 19.0                | 0.0      |
| 20              | PI2 BPSK   | 100     | 0         | 17.31            | 17.35               | 17.36             |                     |          |
| 20              | QPSK       | 1       | 1         | 17.65            | 17.55               | 17.45             | 19.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 17.56            | 17.79               | 17.64             |                     |          |
| 20              | QPSK       | 1       | 104       | 17.47            | 17.57               | 17.55             |                     |          |
| 20              | QPSK       | 50      | 0         | 17.46            | 17.43               | 17.42             | 19.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 17.39            | 17.63               | 17.43             | 19.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 17.33            | 17.39               | 17.50             | 19.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 17.45            | 17.54               | 17.47             |                     |          |
| 20              | 16QAM      | 1       | 1         | 17.70            | 17.54               | 17.42             | 19.0                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 17.78            | 17.51               | 17.58             | 19.0                | 0.0      |
| 20              | 256QAM     | 1       | 1         | 17.55            | 17.58               | 17.43             | 19.0                | 0.0      |
| Channel         |            |         |           | 20550            | 507000              | 512000            | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2607.5           | 2635                | 2662.5            | 19.0                | 0.0      |
| 15              | QPSK       | 1       | 40        | 17.67            | 17.67               | 17.56             |                     |          |
| Channel         |            |         |           | 501000           | 507000              | 513000            | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2604             | 2635                | 2664              | 19.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 17.64            | 17.67               | 17.58             |                     |          |
| Channel         |            |         |           | 509000           | 507000              | 513000            | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2562.5           | 2535                | 2547.5            | 19.0                | 0.0      |
| 5               | QPSK       | 1       | 13        | 17.75            | 17.75               | 17.64             |                     |          |

| n66_For_Head    |          |     |     |        |        |        |                     |          |
|-----------------|----------|-----|-----|--------|--------|--------|---------------------|----------|
| Channel         |          |     |     | 344000 | 349000 | 354000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1720   | 1745   | 1770   | 14.5                | 0.0      |
| 20              | PI2 BPSK | 1   | 1   | 13.49  | 13.54  | 13.23  |                     |          |
| 20              | PI2 BPSK | 1   | 53  | 13.34  | 13.29  | 13.19  |                     |          |
| 20              | PI2 BPSK | 1   | 104 | 13.28  | 13.38  | 13.20  | 14.5                | 0.0      |
| 20              | PI2 BPSK | 50  | 0   | 13.63  | 13.40  | 13.24  |                     |          |
| 20              | PI2 BPSK | 50  | 28  | 13.49  | 13.36  | 13.25  | 14.5                | 0.0      |
| 20              | PI2 BPSK | 50  | 56  | 13.41  | 13.26  | 13.15  | 14.5                | 0.0      |
| 20              | PI2 BPSK | 100 | 0   | 13.47  | 13.37  | 13.24  |                     |          |
| 20              | QPSK     | 1   | 1   | 13.60  | 13.54  | 13.35  | 14.5                | 0.0      |
| 20              | QPSK     | 1   | 53  | 13.42  | 13.70  | 13.65  |                     |          |
| 20              | QPSK     | 1   | 104 | 13.44  | 13.45  | 13.55  |                     |          |
| 20              | QPSK     | 50  | 0   | 13.57  | 13.38  | 13.21  | 14.5                | 0.0      |
| 20              | QPSK     | 50  | 28  | 13.45  | 13.58  | 13.47  | 14.5                | 0.0      |
| 20              | QPSK     | 50  | 56  | 13.47  | 13.33  | 13.17  | 14.5                | 0.0      |
| 20              | QPSK     | 100 | 0   | 13.48  | 13.49  | 13.23  | 14.5                | 0.0      |
| 20              | 16QAM    | 1   | 1   | 13.54  | 13.35  | 13.13  |                     |          |
| 20              | 64QAM    | 1   | 1   | 13.46  | 13.69  | 13.36  | 14.5                | 0.0      |
| 20              | 256QAM   | 1   | 1   | 13.56  | 13.56  | 13.43  | 14.5                | 0.0      |
| Channel         |          |     |     | 343500 | 349000 | 354500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1722.5 | 1745   | 1772.5 | 14.5                | 0.0      |
| 15              | QPSK     | 1   | 40  | 13.45  | 13.54  | 13.43  |                     |          |
| Channel         |          |     |     | 343000 | 349000 | 355000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1715   | 1745   | 1775   | 14.5                | 0.0      |
| 10              | QPSK     | 1   | 26  | 13.44  | 13.50  | 14.55  |                     |          |
| Channel         |          |     |     | 342500 | 349000 | 355500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1712.5 | 1745   | 1777.5 | 14.5                | 0.0      |
| 5               | QPSK     | 1   | 13  | 13.46  | 13.52  | 13.55  |                     |          |

| n66-Body worn   |          |     |     |        |        |        |                     |          |
|-----------------|----------|-----|-----|--------|--------|--------|---------------------|----------|
| Channel         |          |     |     | 344000 | 349000 | 354000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1720   | 1745   | 1770   | 15.5                | 0.0      |
| 20              | PI2 BPSK | 1   | 1   | 14.59  | 14.55  | 14.24  |                     |          |
| 20              | PI2 BPSK | 1   | 53  | 14.35  | 14.38  | 14.18  |                     |          |
| 20              | PI2 BPSK | 1   | 104 | 14.37  | 14.37  | 14.17  | 15.5                | 0.0      |
| 20              | PI2 BPSK | 50  | 0   | 14.58  | 14.38  | 14.06  |                     |          |
| 20              | PI2 BPSK | 50  | 28  | 14.45  | 14.33  | 14.25  | 15.5                | 0.0      |
| 20              | PI2 BPSK | 50  | 56  | 14.33  | 14.23  | 14.08  | 15.5                | 0.0      |
| 20              | PI2 BPSK | 100 | 0   | 14.45  | 14.35  | 14.28  |                     |          |
| 20              | QPSK     | 1   | 1   | 14.54  | 14.53  | 14.76  | 15.5                | 0.0      |
| 20              | QPSK     | 1   | 53  | 14.65  | 14.68  | 14.58  |                     |          |
| 20              | QPSK     | 1   | 104 | 14.40  | 14.38  | 14.25  |                     |          |
| 20              | QPSK     | 50  | 0   | 14.35  | 14.38  | 13.55  | 15.5                | 0.0      |
| 20              | QPSK     | 50  | 28  | 14.43  | 14.51  | 14.23  | 15.5                | 0.0      |
| 20              | QPSK     | 50  | 56  | 14.44  | 14.26  | 14.21  | 15.5                | 0.0      |
| 20              | QPSK     | 100 | 0   | 14.46  | 14.49  | 14.29  | 15.5                | 0.0      |
| 20              | 16QAM    | 1   | 1   | 14.55  | 14.33  | 14.55  |                     |          |
| 20              | 64QAM    | 1   | 1   | 14.78  | 14.68  | 14.35  | 15.5                | 0.0      |
| 20              | 256QAM   | 1   | 1   | 14.87  | 14.59  | 14.39  | 15.5                | 0.0      |
| Channel         |          |     |     | 343500 | 349000 | 354500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1722.5 | 1745   | 1772.5 | 15.5                | 0.0      |
| 15              | QPSK     | 1   | 40  | 14.65  | 14.78  | 14.56  |                     |          |
| Channel         |          |     |     | 343000 | 349000 | 355000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1715   | 1745   | 1775   | 15.5                | 0.0      |
| 10              | QPSK     | 1   | 26  | 14.67  | 14.55  | 14.72  |                     |          |
| Channel         |          |     |     | 342500 | 349000 | 355500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |          |     |     | 1712.5 | 1745   | 1777.5 | 15.5                | 0.0      |
| 5               | QPSK     | 1   | 13  | 14.67  | 14.66  | 14.76  |                     |          |

| n66-Hotspot     |           |     |     |        |        |        |                        |             |  |
|-----------------|-----------|-----|-----|--------|--------|--------|------------------------|-------------|--|
| Channel         |           |     |     | 344000 | 349000 | 354000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1750   | 1745   | 1770   |                        |             |  |
| 20              | Pl/2 BPSK | 1   | 1   | 13.56  | 13.49  | 13.33  | 14.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 1   | 53  | 13.32  | 13.35  | 13.28  |                        |             |  |
| 20              | Pl/2 BPSK | 1   | 104 | 13.35  | 13.42  | 13.23  |                        |             |  |
| 20              | Pl/2 BPSK | 50  | 0   | 13.57  | 13.43  | 13.29  | 14.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 50  | 28  | 13.45  | 13.31  | 13.28  | 14.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 50  | 56  | 13.36  | 13.30  | 13.18  | 14.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 100 | 0   | 13.43  | 13.38  | 13.28  |                        |             |  |
| 20              | QPSK      | 1   | 1   | 13.64  | 13.50  | 13.32  | 14.5                   | 0.0         |  |
| 20              | QPSK      | 1   | 53  | 13.59  | 13.71  | 13.56  |                        |             |  |
| 20              | QPSK      | 1   | 104 | 13.42  | 13.41  | 13.34  |                        |             |  |
| 20              | QPSK      | 50  | 0   | 13.52  | 13.37  | 13.17  | 14.5                   | 0.0         |  |
| 20              | QPSK      | 50  | 28  | 13.40  | 13.06  | 13.48  | 14.5                   | 0.0         |  |
| 20              | QPSK      | 50  | 56  | 13.40  | 13.34  | 13.20  | 14.5                   | 0.0         |  |
| 20              | QPSK      | 100 | 0   | 13.51  | 13.58  | 13.28  | 14.5                   | 0.0         |  |
| 20              | 8QAM      | 1   | 1   | 13.63  | 13.53  | 13.23  | 14.5                   | 0.0         |  |
| 20              | 8QAM      | 1   | 1   | 13.54  | 13.09  | 13.38  | 14.5                   | 0.0         |  |
| 20              | 256QAM    | 1   | 1   | 13.45  | 13.57  | 13.41  | 14.5                   | 0.0         |  |
| Channel         |           |     |     | 345000 | 349000 | 354000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1717.5 | 1745   | 1772.5 |                        |             |  |
| 15              | QPSK      | 1   | 40  | 13.60  | 13.54  | 13.55  | 14.5                   | 0.0         |  |
| Channel         |           |     |     | 343000 | 349000 | 350000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1715   | 1745   | 1775   |                        |             |  |
| 10              | QPSK      | 1   | 26  | 13.45  | 13.56  | 13.55  | 14.5                   | 0.0         |  |
| Channel         |           |     |     | 342500 | 349000 | 350500 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1712.5 | 1745   | 1777.5 |                        |             |  |
| 5               | QPSK      | 1   | 13  | 13.43  | 13.53  | 13.44  | 14.5                   | 0.0         |  |

| n66-Handheld    |           |     |     |        |        |        |                        |             |  |
|-----------------|-----------|-----|-----|--------|--------|--------|------------------------|-------------|--|
| Channel         |           |     |     | 344000 | 349000 | 354000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1750   | 1745   | 1770   |                        |             |  |
| 20              | Pl/2 BPSK | 1   | 1   | 17.56  | 17.53  | 17.25  | 18.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 1   | 53  | 17.43  | 17.33  | 17.28  |                        |             |  |
| 20              | Pl/2 BPSK | 1   | 104 | 17.32  | 17.36  | 17.30  |                        |             |  |
| 20              | Pl/2 BPSK | 50  | 0   | 17.53  | 17.38  | 17.22  | 18.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 50  | 28  | 17.47  | 17.26  | 17.24  | 18.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 50  | 56  | 17.57  | 17.28  | 17.20  | 18.5                   | 0.0         |  |
| 20              | Pl/2 BPSK | 100 | 0   | 17.47  | 17.29  | 17.22  |                        |             |  |
| 20              | QPSK      | 1   | 1   | 17.57  | 17.47  | 17.32  | 18.5                   | 0.0         |  |
| 20              | QPSK      | 1   | 53  | 17.45  | 17.61  | 17.48  |                        |             |  |
| 20              | QPSK      | 1   | 104 | 17.46  | 17.37  | 17.34  |                        |             |  |
| 20              | QPSK      | 50  | 0   | 17.51  | 17.36  | 17.19  | 18.5                   | 0.0         |  |
| 20              | QPSK      | 50  | 28  | 17.50  | 17.52  | 17.43  | 18.5                   | 0.0         |  |
| 20              | QPSK      | 50  | 56  | 17.44  | 17.29  | 17.22  | 18.5                   | 0.0         |  |
| 20              | QPSK      | 100 | 0   | 17.45  | 17.48  | 17.34  | 18.5                   | 0.0         |  |
| 20              | 8QAM      | 1   | 1   | 17.54  | 17.24  | 17.29  | 18.5                   | 0.0         |  |
| 20              | 8QAM      | 1   | 1   | 17.37  | 17.36  | 17.42  | 18.5                   | 0.0         |  |
| 20              | 256QAM    | 1   | 1   | 17.45  | 17.46  | 17.48  | 18.5                   | 0.0         |  |
| Channel         |           |     |     | 345000 | 349000 | 354000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1717.5 | 1745   | 1772.5 |                        |             |  |
| 15              | QPSK      | 1   | 40  | 17.55  | 17.45  | 17.34  | 18.5                   | 0.0         |  |
| Channel         |           |     |     | 343000 | 349000 | 350000 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1715   | 1745   | 1775   |                        |             |  |
| 10              | QPSK      | 1   | 26  | 17.55  | 17.43  | 17.54  | 18.5                   | 0.0         |  |
| Channel         |           |     |     | 342500 | 349000 | 350500 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |           |     |     | 1712.5 | 1745   | 1777.5 |                        |             |  |
| 5               | QPSK      | 1   | 13  | 17.28  | 17.34  | 17.52  | 18.5                   | 0.0         |  |



| n78_FCC-Handheld |            |         |           |                       |                          |                        |                     |          |     |
|------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel          |            |         |           | 650000                | 650000                   | 650000                 |                     |          |     |
| Frequency (MHz)  |            |         |           | 3750                  | 3750                     | 3750                   |                     |          |     |
| 100              | PI/2 BPSK  | 1       | 1         |                       | 17.32                    |                        | 18.0                | 0.0      |     |
| 100              | PI/2 BPSK  | 1       | 137       |                       | 17.21                    |                        |                     |          |     |
| 100              | PI/2 BPSK  | 1       | 271       |                       | 16.98                    |                        |                     |          |     |
| 100              | PI/2 BPSK  | 135     | 0         |                       | 17.33                    |                        | 18.0                | 0.0      |     |
| 100              | PI/2 BPSK  | 135     | 69        |                       | 17.35                    |                        |                     |          |     |
| 100              | PI/2 BPSK  | 135     | 138       |                       | 17.20                    |                        |                     |          |     |
| 100              | PI/2 BPSK  | 270     | 0         |                       | 17.32                    |                        | 18.0                | 0.0      |     |
| 100              | QPSK       | 1       | 1         |                       | 17.45                    |                        |                     |          |     |
| 100              | QPSK       | 1       | 137       |                       | 17.43                    |                        | 18.0                | 0.0      |     |
| 100              | QPSK       | 1       | 271       |                       | 17.32                    |                        |                     |          |     |
| 100              | QPSK       | 135     | 0         |                       | 17.33                    |                        |                     |          |     |
| 100              | QPSK       | 135     | 69        |                       | 17.19                    |                        | 18.0                | 0.0      |     |
| 100              | QPSK       | 135     | 138       |                       | 17.21                    |                        |                     |          |     |
| 100              | QPSK       | 270     | 0         |                       | 17.40                    |                        |                     |          |     |
| 100              | 16QAM      | 1       | 1         |                       | 16.99                    |                        | 18.0                | 0.0      |     |
| 100              | 64QAM      | 1       | 1         |                       | 17.10                    |                        | 18.0                | 0.0      |     |
| 100              | 256QAM     | 1       | 1         |                       | 17.27                    |                        | 18.0                | 0.0      |     |
| Channel          |            |         |           | 649668                | 650000                   | 650334                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)  |            |         |           | 3745.02               | 3750                     | 3755.01                | (dBm)               | (dB)     |     |
| 90               | QPSK       | 1       | 1         |                       | 17.32                    | 17.34                  | 17.23               | 18.0     | 0.0 |
| Channel          |            |         |           | 649334                | 650000                   | 650668                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)  |            |         |           | 3741.01               | 3750                     | 3760.02                | (dBm)               | (dB)     |     |
| 80               | QPSK       | 1       | 1         |                       | 17.22                    | 17.33                  | 17.22               | 18.0     | 0.0 |
| Channel          |            |         |           | 648668                | 650000                   | 651334                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)  |            |         |           | 3730.02               | 3750                     | 3770.01                | (dBm)               | (dB)     |     |
| 60               | QPSK       | 1       | 1         |                       | 17.23                    | 17.35                  | 17.24               | 18.0     | 0.0 |
| Channel          |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)  |            |         |           | 3725.01               | 3750                     | 3775.02                | (dBm)               | (dB)     |     |
| 50               | QPSK       | 1       | 1         |                       | 17.21                    | 17.23                  | 17.14               | 18.0     | 0.0 |
| Channel          |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)  |            |         |           | 3720                  | 3750                     | 3760                   | (dBm)               | (dB)     |     |
| 40               | QPSK       | 1       | 1         |                       | 17.34                    | 17.40                  | 17.21               | 18.0     | 0.0 |
| Channel          |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit       | MPR      |     |
| Frequency (MHz)  |            |         |           | 3710.01               | 3750                     | 3790.02                | (dBm)               | (dB)     |     |
| 20               | QPSK       | 1       | 1         |                       | 17.22                    | 17.34                  | 17.39               | 18.0     | 0.0 |

### Conducted Power

| 2.4GHz WLAN                                                                                                                                                         |         |                 |                     |               |                                                                                                                      |               |                                                                             |               |                                                                                                                   |               |                                                                             |               |                                                                            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|---------------------|---------------|----------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------|--|
| Art 3-6                                                                                                                                                             |         |                 |                     |               | Art 3-6                                                                                                              |               | Art 3-6                                                                     |               | Art 3-6                                                                                                           |               | Art 3-6                                                                     |               | Art 3-6                                                                    |  |
| Default Power (Max Power)<br>M Heat: Power table 8 (Stand-alone)<br>Body Worn: Power Table 10 (Stand-alone)<br>Handheld: Default Power & Power Table 1 (DBS Only)   |         |                 |                     |               | M Heat: Power table 7 (DBS Only) / R/W/WAN/VLAN / 9 (DBS+WWAN)<br>Handheld: Default Power & Power Table 1 (DBS Only) |               | Body Worn: Power Table 11 (DBS Only)<br>Handheld: Power table 2 (WWAN/VLAN) |               | Body Worn: Power Table 12 (DBS Only)<br>Handheld: Power table 4 (WWAN/VLAN)<br>Handheld: Power table 5 (DBS+WWAN) |               | Body Worn: Power table 13 (DBS+WWAN)<br>Handheld: Power table 5 (DBS+WWAN)  |               |                                                                            |  |
| Mode                                                                                                                                                                | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit | Average power (dBm)                                                                                                  | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Average power (dBm)                                                                                               | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Duty Cycle %                                                               |  |
| 802.11a 6Mbps                                                                                                                                                       | 1       | 2412            | 21.04               | 22.00         | 20.02                                                                                                                | 21.00         | 18.88                                                                       | 19.00         | 18.88                                                                                                             | 18.00         | 9.72                                                                        | 10.00         | 98.20                                                                      |  |
|                                                                                                                                                                     | 6       | 2437            | 20.91               | 22.00         | 19.46                                                                                                                | 21.00         | 18.79                                                                       | 19.00         | 18.86                                                                                                             | 18.00         | 9.68                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 11      | 2462            | 20.96               | 22.00         | 19.73                                                                                                                | 21.00         | 18.54                                                                       | 19.00         | 18.74                                                                                                             | 18.00         | 9.65                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 1       | 2412            | 20.89               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
|                                                                                                                                                                     | 6       | 2437            | 20.76               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
|                                                                                                                                                                     | 11      | 2462            | 20.72               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
| 802.11a-HT20 MCS0                                                                                                                                                   | 1       | 2412            | 20.90               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         | 100.00                                                                     |  |
|                                                                                                                                                                     | 6       | 2437            | 20.60               | 22.00         | Not Inquery                                                                                                          | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
|                                                                                                                                                                     | 11      | 2462            | 20.72               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
|                                                                                                                                                                     | 1       | 2412            | 20.89               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
|                                                                                                                                                                     | 6       | 2437            | 20.77               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
|                                                                                                                                                                     | 11      | 2462            | 20.70               | 22.00         |                                                                                                                      | 21.00         |                                                                             | 19.00         |                                                                                                                   | 18.00         |                                                                             | 14.00         |                                                                            |  |
| 5.2GHz WLAN                                                                                                                                                         |         |                 |                     |               |                                                                                                                      |               |                                                                             |               |                                                                                                                   |               |                                                                             |               |                                                                            |  |
| Art 5-6                                                                                                                                                             |         |                 |                     |               | Art 5-6                                                                                                              |               | Art 5-6                                                                     |               | Art 5-6                                                                                                           |               | Art 5-6                                                                     |               | Art 5-6                                                                    |  |
| Default Power (Max Power)<br>M Heat: Power table 8 (Stand-alone) / 7 (DBS Only) / R/W/WAN/VLAN / 9 (DBS+WWAN)<br>Handheld: Default Power & Power Table 1 (DBS Only) |         |                 |                     |               | Handheld: Power table 2 (WWAN/VLAN)                                                                                  |               | Body Worn: Power Table 10 (Stand-alone)                                     |               | Body Worn: Power Table 11 (DBS Only)<br>Handheld: Power table 3 (DBS+WWAN)                                        |               | Body Worn: Power Table 12 (WWAN/VLAN)<br>Handheld: Power table 5 (DBS+WWAN) |               | Body Worn: Power table 13 (DBS+WWAN)<br>Handheld: Power table 5 (DBS+WWAN) |  |
| Mode                                                                                                                                                                | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit | Average power (dBm)                                                                                                  | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Average power (dBm)                                                                                               | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Duty Cycle %                                                               |  |
| 802.11a 6Mbps                                                                                                                                                       | 36      | 5180            | 19.71               | 20.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 99.27         |                                                                            |  |
|                                                                                                                                                                     | 40      | 5200            | 20.76               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 44      | 5220            | 20.59               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 48      | 5240            | 20.43               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 36      | 5180            | 20.43               | 21.00         | Not Inquery                                                                                                          | 15.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        |               | 10.00                                                                      |  |
|                                                                                                                                                                     | 40      | 5200            | 20.47               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HT20 MCS0                                                                                                                                                   | 44      | 5220            | 20.22               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 48      | 5240            | 20.12               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 36      | 5180            | 19.68               | 19.00         | 15.18                                                                                                                | 15.00         | 14.97                                                                       | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 40      | 5200            | 20.25               | 21.00         | 15.23                                                                                                                | 15.00         | 14.98                                                                       | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 36      | 5180            | 20.49               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 40      | 5200            | 20.44               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
| 802.11a-VHT20 MCS0                                                                                                                                                  | 44      | 5220            | 20.20               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 48      | 5240            | 20.16               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 36      | 5180            | 19.74               | 19.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 40      | 5200            | 20.39               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 36      | 5180            | 19.68               | 19.00         | 14.23                                                                                                                | 15.00         | 14.23                                                                       | 15.00         | 13.00                                                                                                             | 9.00          | 9.33                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 40      | 5200            | 20.65               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HE20 MCS0                                                                                                                                                   | 44      | 5220            | 20.40               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 48      | 5240            | 20.34               | 21.00         | Not Inquery                                                                                                          | 15.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        |               | 10.00                                                                      |  |
|                                                                                                                                                                     | 36      | 5180            | 19.75               | 19.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 40      | 5200            | 20.62               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 44      | 5220            | 20.40               | 21.00         |                                                                                                                      | 15.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 48      | 5240            | 20.34               | 21.00         | Not Inquery                                                                                                          | 15.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        | 10.00         |                                                                            |  |
| 5.8GHz WLAN                                                                                                                                                         |         |                 |                     |               |                                                                                                                      |               |                                                                             |               |                                                                                                                   |               |                                                                             |               |                                                                            |  |
| Art 5-6                                                                                                                                                             |         |                 |                     |               | Art 5-6                                                                                                              |               | Art 5-6                                                                     |               | Art 5-6                                                                                                           |               | Art 5-6                                                                     |               | Art 5-6                                                                    |  |
| Default Power (Max Power)<br>M Heat: Power table 8 (Stand-alone) / 7 (DBS Only) / R/W/WAN/VLAN / 9 (DBS+WWAN)<br>Handheld: Default Power & Power Table 1 (DBS Only) |         |                 |                     |               | Handheld: Power table 2 (WWAN/VLAN)                                                                                  |               | Body Worn: Power Table 10 (Stand-alone)                                     |               | Body Worn: Power Table 11 (DBS Only)<br>Handheld: Power table 3 (DBS+WWAN)                                        |               | Body Worn: Power Table 12 (WWAN/VLAN)<br>Handheld: Power table 5 (DBS+WWAN) |               | Body Worn: Power table 13 (DBS+WWAN)<br>Handheld: Power table 5 (DBS+WWAN) |  |
| Mode                                                                                                                                                                | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit | Average power (dBm)                                                                                                  | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Average power (dBm)                                                                                               | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Duty Cycle %                                                               |  |
| 802.11a 6Mbps                                                                                                                                                       | 52      | 5260            | 20.30               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 99.27         |                                                                            |  |
|                                                                                                                                                                     | 56      | 5280            | 20.38               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 60      | 5300            | 20.52               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 64      | 5320            | 19.79               | 20.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 52      | 5260            | 20.09               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 56      | 5280            | 20.07               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HT20 MCS0                                                                                                                                                   | 60      | 5300            | 20.04               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 64      | 5320            | 20.39               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 52      | 5260            | 19.75               | 19.00         | 15.12                                                                                                                | 16.00         | 14.36                                                                       | 15.00         | 12.00                                                                                                             | 9.00          | 9.29                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 56      | 5280            | 20.09               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 60      | 5300            | 20.07               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 64      | 5320            | 20.24               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
| 802.11a-VHT20 MCS0                                                                                                                                                  | 52      | 5260            | 20.39               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 56      | 5280            | 20.37               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 60      | 5300            | 20.09               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 64      | 5320            | 20.24               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 52      | 5260            | 19.75               | 19.00         | 15.12                                                                                                                | 16.00         | 14.36                                                                       | 15.00         | 12.00                                                                                                             | 9.00          | 9.29                                                                        | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 56      | 5280            | 20.09               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HE20 MCS0                                                                                                                                                   | 60      | 5300            | 20.10               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 64      | 5320            | 20.39               | 21.00         | Not Inquery                                                                                                          | 16.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        |               | 10.00                                                                      |  |
|                                                                                                                                                                     | 52      | 5260            | 19.89               | 19.00         | 15.03                                                                                                                | 16.00         | 14.36                                                                       | 15.00         | 12.00                                                                                                             | 9.00          | 9.29                                                                        |               | 10.00                                                                      |  |
|                                                                                                                                                                     | 56      | 5280            | 20.36               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 60      | 5300            | 20.09               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 9.00          | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 64      | 5320            | 20.24               | 21.00         | Not Inquery                                                                                                          | 16.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 9.00                                                                        | 10.00         |                                                                            |  |
| 5.9GHz WLAN                                                                                                                                                         |         |                 |                     |               |                                                                                                                      |               |                                                                             |               |                                                                                                                   |               |                                                                             |               |                                                                            |  |
| Art 5-6                                                                                                                                                             |         |                 |                     |               | Art 5-6                                                                                                              |               | Art 5-6                                                                     |               | Art 5-6                                                                                                           |               | Art 5-6                                                                     |               | Art 5-6                                                                    |  |
| Default Power (Max Power)<br>M Heat: Power table 8 (Stand-alone) / 7 (DBS Only) / R/W/WAN/VLAN / 9 (DBS+WWAN)<br>Handheld: Default Power                            |         |                 |                     |               | Handheld: Power table 2 (WWAN/VLAN)                                                                                  |               | Body Worn: Power Table 10 (Stand-alone)                                     |               | Body Worn: Power Table 11 (DBS Only)<br>Handheld: Power table 3 (DBS+WWAN)                                        |               | Body Worn: Power Table 12 (WWAN/VLAN)<br>Handheld: Power table 5 (DBS+WWAN) |               | Body Worn: Power Table 13 (DBS+WWAN)<br>Handheld: Power table 5 (DBS+WWAN) |  |
| Mode                                                                                                                                                                | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit | Average power (dBm)                                                                                                  | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Average power (dBm)                                                                                               | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Duty Cycle %                                                               |  |
| 802.11a 6Mbps                                                                                                                                                       | 149     | 5745            | 20.77               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       | 99.27         |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.81               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.36               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 149     | 5745            | 20.71               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.47               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.37               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HT20 MCS0                                                                                                                                                   | 149     | 5745            | 20.73               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.49               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 149     | 5745            | 20.73               | 21.00         | Not Inquery                                                                                                          | 16.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 10.00                                                                       | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.49               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.37               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 159     | 5795            | 20.64               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
| 802.11a-VHT20 MCS0                                                                                                                                                  | 149     | 5745            | 20.73               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.49               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.37               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 159     | 5795            | 20.64               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 149     | 5745            | 20.73               | 21.00         | 15.58                                                                                                                | 16.00         | 13.62                                                                       | 15.00         | 12.67                                                                                                             | 13.00         | 10.23                                                                       | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 159     | 5795            | 20.64               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HE20 MCS0                                                                                                                                                   | 149     | 5745            | 20.73               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.49               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.42               | 21.00         | Not Inquery                                                                                                          | 16.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 10.00                                                                       |               | 10.00                                                                      |  |
|                                                                                                                                                                     | 159     | 5795            | 20.64               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 149     | 5745            | 20.73               | 21.00         | Not Inquery                                                                                                          | 16.00         |                                                                             | 15.00         |                                                                                                                   | 13.00         | 10.00                                                                       | 10.00         |                                                                            |  |
|                                                                                                                                                                     | 159     | 5795            | 20.64               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
| 5.9GHz WLAN                                                                                                                                                         |         |                 |                     |               |                                                                                                                      |               |                                                                             |               |                                                                                                                   |               |                                                                             |               |                                                                            |  |
| Art 5-6                                                                                                                                                             |         |                 |                     |               | Art 5-6                                                                                                              |               | Art 5-6                                                                     |               | Art 5-6                                                                                                           |               | Art 5-6                                                                     |               | Art 5-6                                                                    |  |
| Default Power (Max Power)<br>M Heat: Power table 8 (Stand-alone) / 7 (DBS Only) / R/W/WAN/VLAN / 9 (DBS+WWAN)<br>Handheld: Default Power & Power Table 1 (DBS Only) |         |                 |                     |               | Handheld: Power table 2 (WWAN/VLAN)                                                                                  |               | Body Worn: Power Table 10 (Stand-alone)                                     |               | Body Worn: Power Table 11 (DBS Only)<br>Handheld: Power table 3 (DBS+WWAN)                                        |               | Body Worn: Power Table 12 (WWAN/VLAN)<br>Handheld: Power table 5 (DBS+WWAN) |               | Body Worn: Power Table 13 (DBS+WWAN)<br>Handheld: Power table 5 (DBS+WWAN) |  |
| Mode                                                                                                                                                                | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit | Average power (dBm)                                                                                                  | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Average power (dBm)                                                                                               | Time-Up Limit | Average power (dBm)                                                         | Time-Up Limit | Duty Cycle %                                                               |  |
| 802.11a 6Mbps                                                                                                                                                       | 149     | 5745            | 20.77               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       | 99.27         |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.81               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.36               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 149     | 5745            | 20.71               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.47               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
|                                                                                                                                                                     | 165     | 5825            | 20.37               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       |               |                                                                            |  |
| 802.11a-HT20 MCS0                                                                                                                                                   | 149     | 5745            | 20.73               | 21.00         |                                                                                                                      | 16.00         | 15.00                                                                       |               | 13.00                                                                                                             | 10.00         | 10.00                                                                       | 100.00        |                                                                            |  |
|                                                                                                                                                                     | 157     | 5765            | 20.49               | 21.00         |                                                                                                                      | 16.00         |                                                                             |               |                                                                                                                   |               |                                                                             |               |                                                                            |  |



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***Appendix F. Supplemental Tuner Head & Body SAR Results***

The results are shown as follows.



