



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504  
E-mail: ctll@chinattl.com http://www.chinattl.cn

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz $\pm$ 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	39.0 $\pm$ 6 %	1.95 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	---	---

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>55.8 W/kg <math>\pm</math> 18.8 % (k=2)</b>
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>24.6 W/kg <math>\pm</math> 18.7 % (k=2)</b>



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

## Appendix(Additional assessments outside the scope of CNAS L0570)

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.1 $\Omega$ - 5.12j $\Omega$
Return Loss	- 25.7dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	1.058 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.  
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
-----------------	-------



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

### DASY5 Validation Report for Head TSL

Date: 09.16.2021

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1110**

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.949$  S/m;  $\epsilon_r = 39.04$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(7.1, 7.1, 7.1) @ 2600 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.3 V/m; Power Drift = 0.01 dB

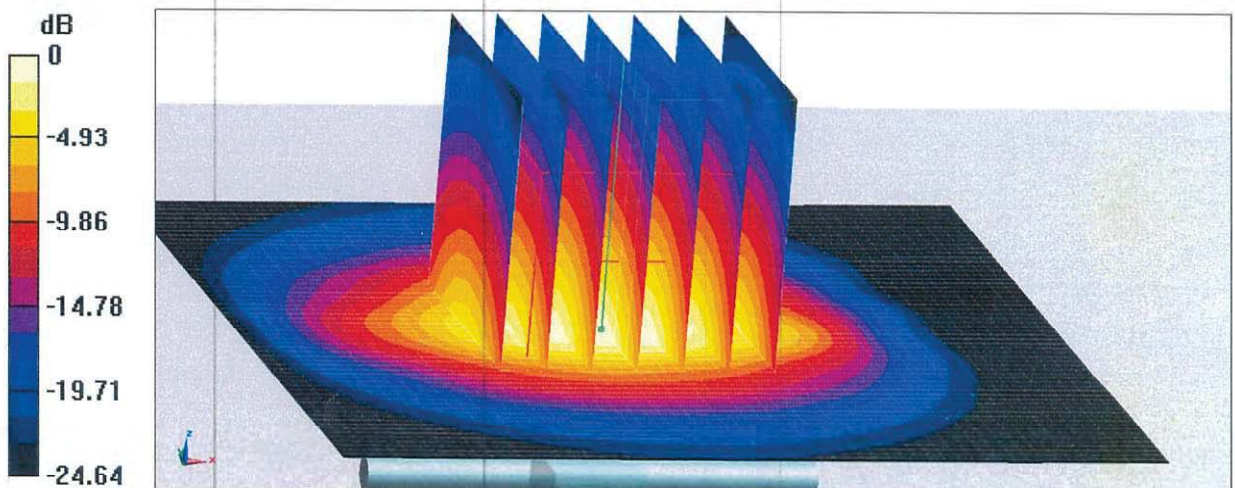
Peak SAR (extrapolated) = 30.6 W/kg

**SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.13 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 45.2%

Maximum value of SAR (measured) = 24.1 W/kg



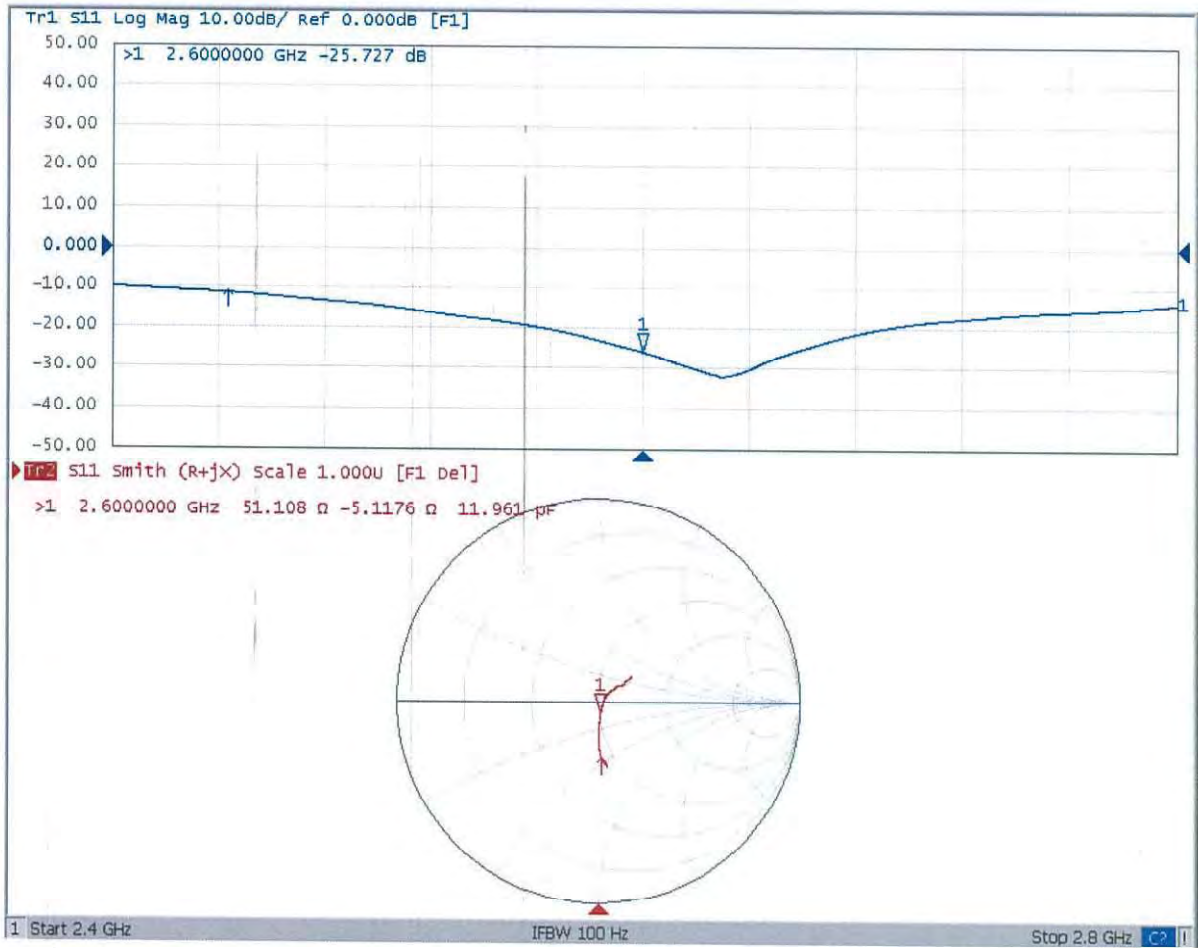
0 dB = 24.1 W/kg = 13.82 dBW/kg



In Collaboration with  
**s p e a g**  
CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

### Impedance Measurement Plot for Head TSL



## D2600V2 - SN: 1110 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

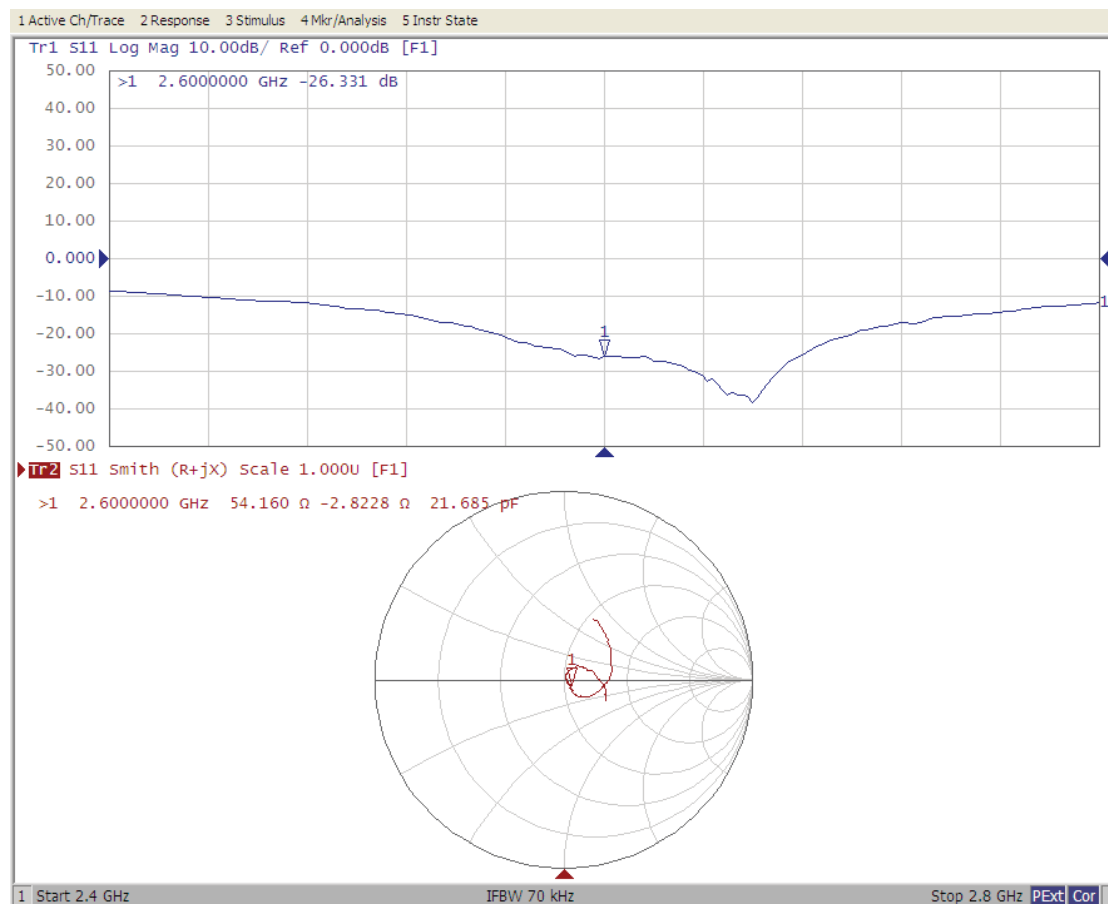
D2600V2 - SN: 1110						
2600 Head						
Date of Measurement	Return-loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021.09.16	-25.7		51.1		-5.1	
2022.09.16	-26.3	2.7	54.2	3.1	-2.8	2.3
2023.09.16	-26.0	-1.2	53.1	2	-4.2	0.9

### <Justification of the extended calibration>

The return loss is <-20dB, within 20% of prior calibration, and the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

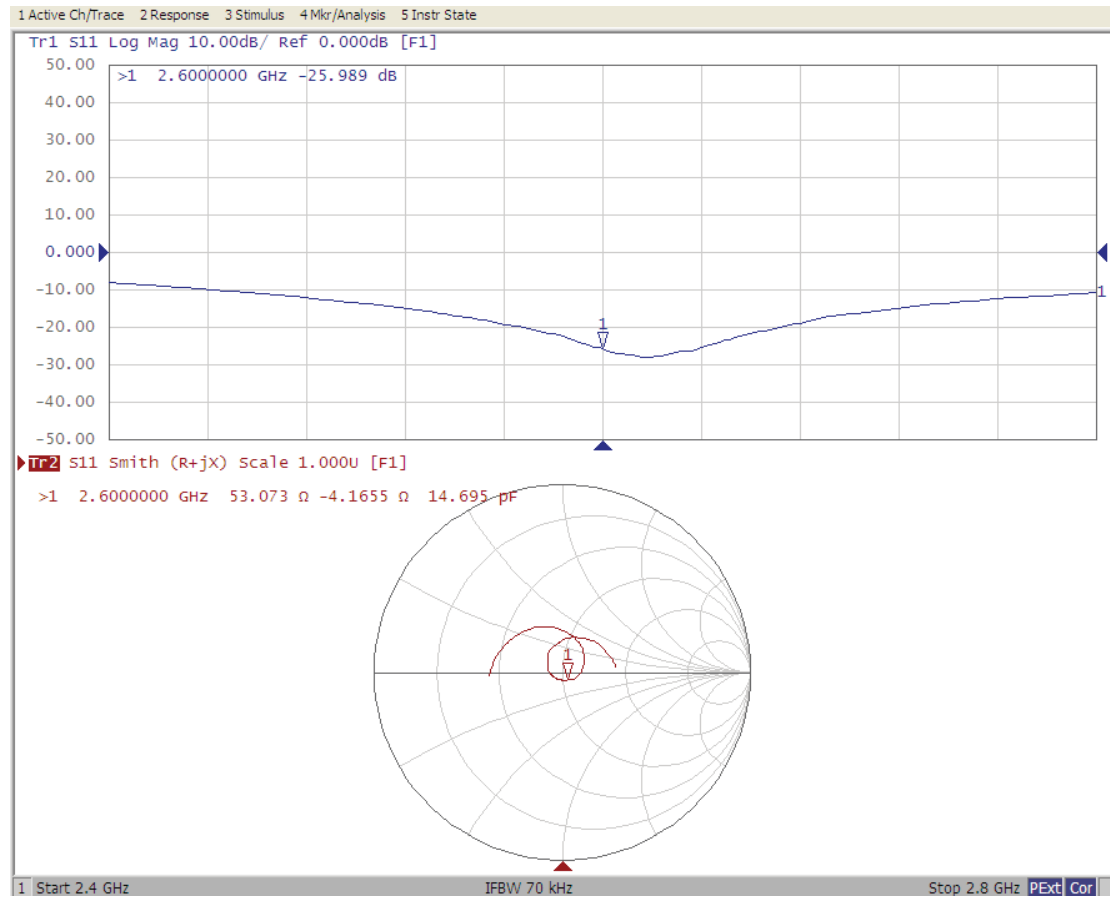
### <Dipole Verification Data>

#### Head 2600MHz \_2022.09.16



# <Dipole Verification Data>

Head 2600MHz \_2023.09.16



Client

7layers

Certificate No: Z21-60431

## CALIBRATION CERTIFICATE

Object D5GHzV2 - SN: 1315

Calibration Procedure(s) FF-Z11-003-01  
Calibration Procedures for dipole validation kits




Calibration date: October 22, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
Power sensor NRP8S	104291	24-Sep-21 (CTTL, No.J21X08326)	Sep-22
ReferenceProbe EX3DV4	SN 7517	03-Feb-21(CTTL-SPEAG,No.Z21-60001)	Feb-22
DAE4	SN 1556	15-Jan-21(SPEAG,No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	01-Feb-21 (CTTL, No.J21X00593)	Jan-22
NetworkAnalyzerE5071C	MY46110673	14-Jan-21 (CTTL, No.J21X00232)	Jan-22

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: October 27, 2021

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

### Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
N/A	not applicable or not measured

### 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 assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

### Additional Documentation:

- DASY4/5 System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

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%.





Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
 Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504  
 E-mail: cttl@chinattl.com http://www.chinattl.cn

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

<b>DASY Version</b>	DASY52	V52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Triple Flat Phantom 5.1C	
<b>Distance Dipole Center - TSL</b>	10 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
<b>Frequency</b>	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz	

### Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	35.9	4.71 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	36.6 ± 6 %	4.70 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	---	---

### SAR result with Head TSL at 5250 MHz

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	7.66 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>76.9 W/kg ± 24.4 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	2.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>22.1 W/kg ± 24.2 % (k=2)</b>



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
 Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504  
 E-mail: cttl@chinattl.com http://www.chinattl.cn

**Head TSL parameters at 5600 MHz**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	35.5	5.07 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	36.0 ± 6 %	5.08 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	---	---

**SAR result with Head TSL at 5600 MHz**

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	8.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>81.9 W/kg ± 24.4 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>23.5 W/kg ± 24.2 % (k=2)</b>

**Head TSL parameters at 5750 MHz**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	35.4	5.22 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	35.8 ± 6 %	5.25 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	<1.0 °C	---	---

**SAR result with Head TSL at 5750 MHz**

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>76.1 W/kg ± 24.4 % (k=2)</b>
<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>21.7 W/kg ± 24.2 % (k=2)</b>



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

### Appendix (Additional assessments outside the scope of CNAS L0570)

#### Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	50.5Ω - 3.27jΩ
Return Loss	- 29.7dB

#### Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.2Ω + 0.81jΩ
Return Loss	- 27.8dB

#### Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	49.4Ω + 1.99jΩ
Return Loss	- 33.6dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.098 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### Additional EUT Data

Manufactured by	SPEAG
-----------------	-------



## DASY5 Validation Report for Head TSL

Date: 10.22.2021

Test Laboratory: CTTL, Beijing, China

**DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1315**

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz,  
Frequency: 5750 MHz,

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.704$  S/m;  $\epsilon_r = 36.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>,  
Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.084$  S/m;  $\epsilon_r = 36$ ;  $\rho = 1000$  kg/m<sup>3</sup>,  
Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.248$  S/m;  $\epsilon_r = 35.78$ ;  $\rho = 1000$  kg/m<sup>3</sup>,

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(5.42, 5.42, 5.42) @ 5250 MHz; ConvF(4.75, 4.75, 4.75) @ 5600 MHz; ConvF(4.82, 4.82, 4.82) @ 5750 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP\_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

### Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan,

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.32 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.0 W/kg

**SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.2 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 65%

Maximum value of SAR (measured) = 18.2 W/kg

### Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan,

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.09 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 34.9 W/kg

**SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.34 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

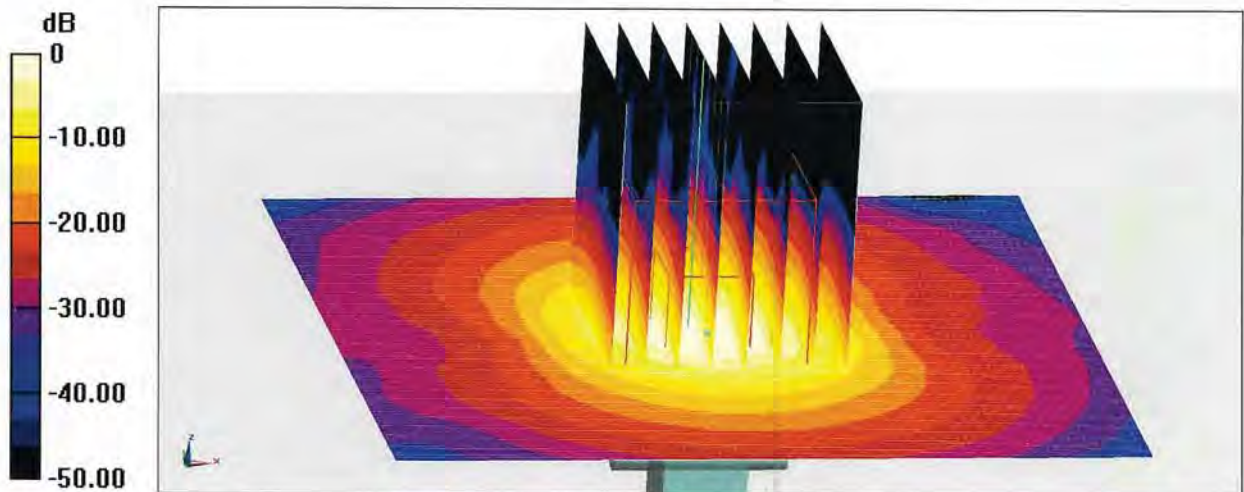
Ratio of SAR at M2 to SAR at M1 = 63.3%

Maximum value of SAR (measured) = 19.9 W/kg



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

**Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan,**  
**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 67.72 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 33.5 W/kg  
**SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.16 W/kg**  
Smallest distance from peaks to all points 3 dB below = 7.2 mm  
Ratio of SAR at M2 to SAR at M1 = 62.4%  
Maximum value of SAR (measured) = 18.6 W/kg

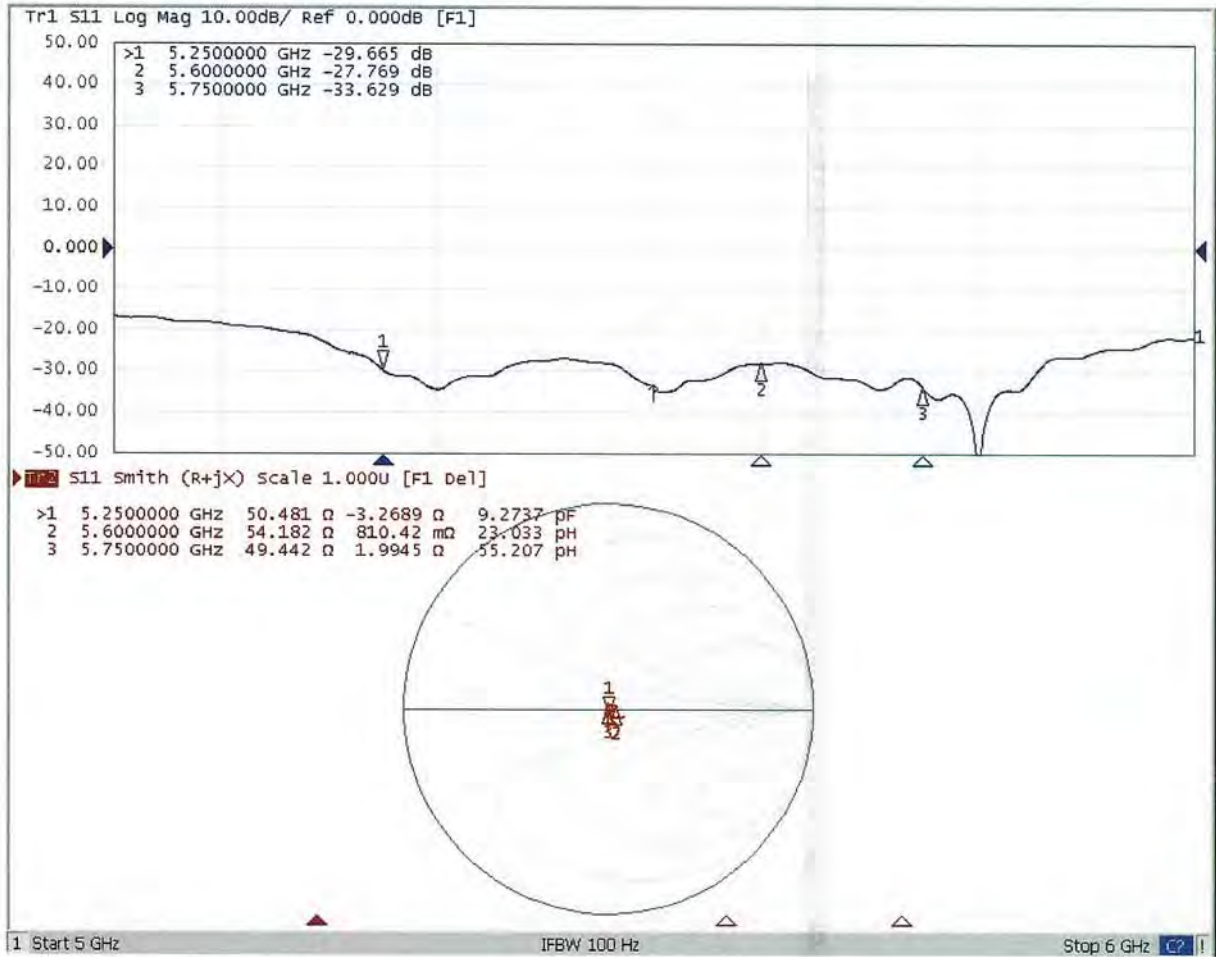


**0 dB = 18.6 W/kg = 12.70 dBW/kg**



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China  
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504  
E-mail: cttl@chinattl.com http://www.chinattl.cn

### Impedance Measurement Plot for Head TSL



## D5GHzV2 - SN: 1315 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

D5GHzV2 - SN: 1315						
5250MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-29.7		50.5		-3.27	
10.21.2022	-34.53	16.26	51.16	0.66	1.56	4.83
10.20.2023	-25.84	-12.98	54.50	4.00	-2.96	0.31

D5GHzV2 - SN: 1315						
5600MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-27.8		54.2		0.81	
10.21.2022	-31.03	11.63	49.59	-4.61	-2.79	-3.60
10.20.2023	-26.15	-5.95	54.92	0.71	-1.82	-2.63

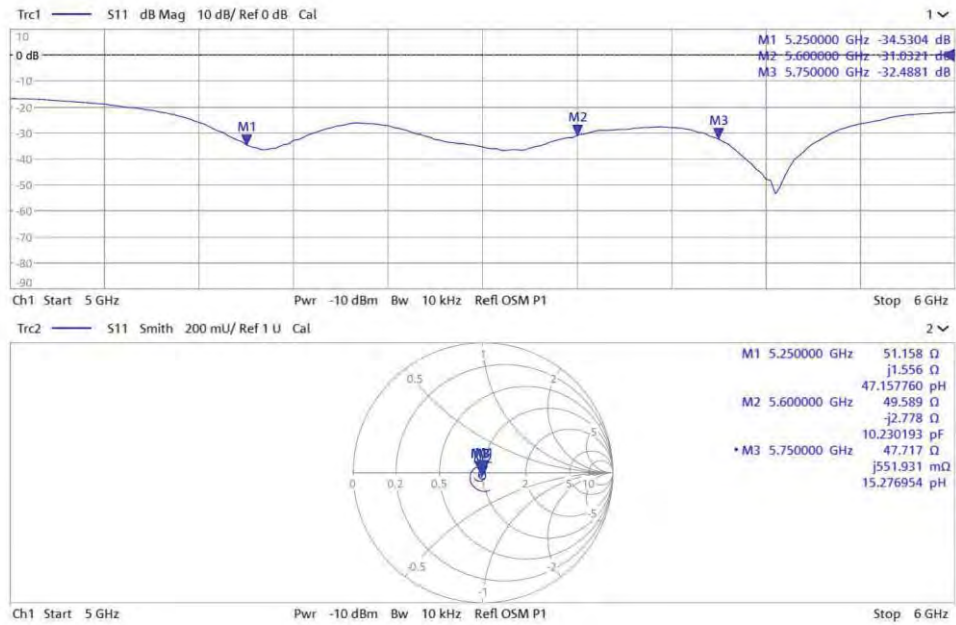
D5GHzV2 - SN: 1315						
5750MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-33.6		49.4		1.99	
10.21.2022	-32.49	-3.31	47.72	-1.68	0.55	-1.44
10.20.2023	-36.43	8.41	50.87	1.47	1.34	-0.65

### <Justification of the extended calibration>

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

<Dipole Verification Data>

Head 5250-5750MHz\_2022.10.21



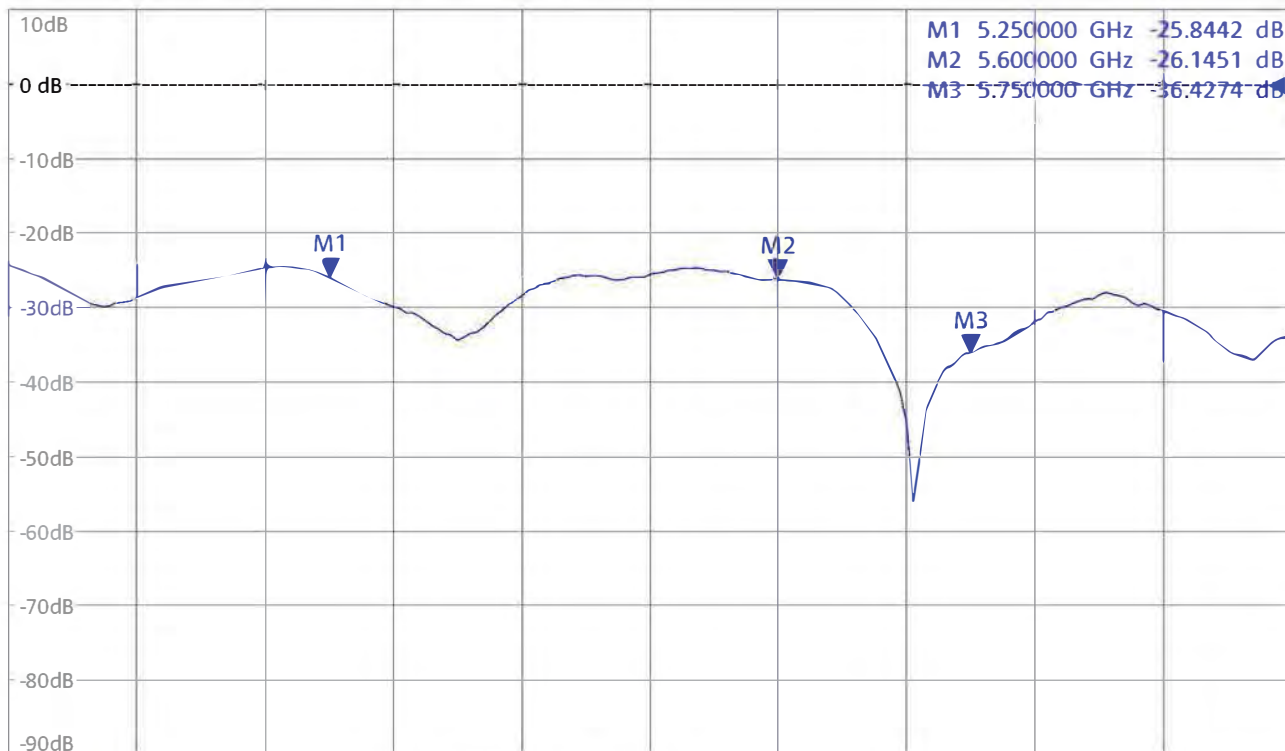


### <Dipole Verification Data>

Head 5250-5750MHz\_2023.10.20

Trc1 — S11 dB Mag 10 dB/ Ref 0 dB Cal

1

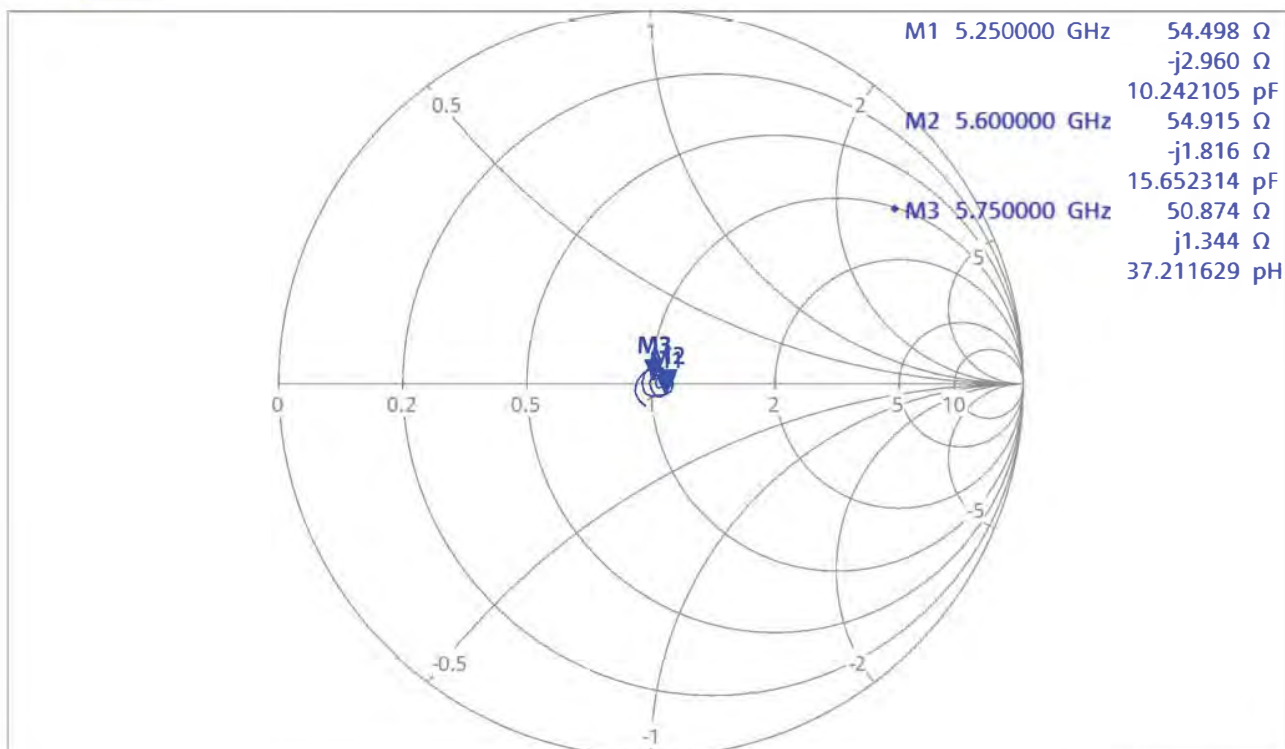


Ch1 Start 5 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

Stop 6 GHz

Trc2 — S11 Smith 200 mU/ Ref 1 U Cal

2



Ch1 Start 5 GHz Pwr -10 dBm Bw 10 kHz Refl OSM P1

Stop 6 GHz



## Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.

## WWAN Full Power & DSI-2 Power & DSI-1 Power Ant1(MAIN)

Band	GSM850				GSM1900				
	Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8		
GSM	32.08	32.11	32.15	33.50	29.36	29.37	29.22	30.50	
GPRS 1Tx Slot	32.06	32.09	32.14	33.50	29.34	29.35	29.20	30.50	
GPRS 2Tx Slot	28.61	28.64	28.69	30.00	25.61	25.66	25.55	26.70	
GPRS 3Tx Slot	27.21	27.23	27.30	28.50	23.82	23.90	23.82	25.00	
GPRS 4Tx Slot	26.23	26.26	26.32	27.50	22.98	22.97	22.91	24.00	
EDGE 1Tx Slot	26.41	26.39	26.30	28.00	25.06	25.17	25.16	27.00	
EDGE 2Tx Slot	23.43	23.49	23.56	25.00	22.06	22.16	22.25	24.00	
EDGE 3Tx Slot	21.84	21.71	21.57	23.20	20.23	20.38	20.33	22.20	
EDGE 4Tx Slot	20.12	20.14	20.05	22.00	19.07	19.13	19.03	21.00	

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
	Channel	128	189		251	512	661	
GSM	23.08	23.11	23.15	24.50	20.36	20.37	20.22	21.50
GPRS 1Tx Slot	23.06	23.09	23.14	24.50	20.34	20.35	20.20	21.50
GPRS 2Tx Slot	22.61	22.64	22.69	24.00	19.61	19.66	19.55	20.70
GPRS 3Tx Slot	22.95	22.97	23.04	24.24	19.56	19.64	19.56	20.74
GPRS 4Tx Slot	23.23	23.26	23.32	24.50	19.98	19.97	19.91	21.00
EDGE 1Tx Slot	17.41	17.39	17.30	19.00	16.06	16.17	16.16	18.00
EDGE 2Tx Slot	17.43	17.49	17.56	19.00	16.06	16.16	16.25	18.00
EDGE 3Tx Slot	17.58	17.45	17.31	18.94	15.97	16.12	16.07	17.94
EDGE 4Tx Slot	17.12	17.14	17.05	19.00	16.07	16.13	16.03	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
	TX Channel	9262	9400		9538	Max. Tune-up Power (dBm)	1312		1413	1513	Max. Tune-up Power (dBm)	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.37	24.24	24.26	25.50	24.55	24.50	24.49	25.50	24.24	24.20	24.17	25.50
HSDPA Subtest-1	23.53	23.38	23.41	24.00	23.71	23.61	23.60	24.00	23.39	23.37	23.30	24.00
HSDPA Subtest-2	23.51	23.36	23.42	24.00	23.74	23.60	23.68	24.00	23.44	23.33	23.34	24.00
HSDPA Subtest-3	22.96	22.84	22.86	24.00	23.25	23.13	23.18	24.00	22.94	22.89	22.86	24.00
HSDPA Subtest-4	22.98	22.84	22.92	24.00	23.16	23.12	23.15	24.00	22.90	22.88	22.85	24.00
DC-HSDPA Subtest-1	23.52	23.39	23.42	24.00	23.66	23.67	23.58	24.00	23.43	23.33	23.28	24.00
DC-HSDPA Subtest-2	23.51	23.35	23.42	24.00	23.65	23.64	23.63	24.00	23.40	23.37	23.31	24.00
DC-HSDPA Subtest-3	22.98	22.86	22.86	24.00	23.15	23.12	23.17	24.00	22.88	22.82	22.82	24.00
DC-HSDPA Subtest-4	22.99	22.93	22.94	24.00	23.19	23.15	23.09	24.00	22.88	22.89	22.83	24.00
HSUPA Subtest-1	21.76	21.60	21.63	23.00	21.91	21.80	21.86	23.00	21.61	21.50	21.49	23.00
HSUPA Subtest-2	21.40	21.24	21.36	23.00	21.63	21.56	21.52	23.00	21.30	21.21	21.17	23.00
HSUPA Subtest-3	22.37	22.21	22.23	23.00	22.48	22.43	22.45	23.00	22.23	22.15	22.11	23.00
HSUPA Subtest-4	21.23	21.03	21.13	23.00	21.22	21.14	21.16	23.00	21.18	21.11	21.07	23.00
HSUPA Subtest-5	22.32	22.22	22.15	23.00	22.48	22.48	22.39	23.00	22.15	22.17	22.16	23.00
HSPA+ Subtest-1	21.58	21.49	21.48	23.00	21.84	21.71	21.69	23.00	21.49	21.45	21.36	23.00

LTE Band 2									
BW	Modulation	RB Size	RB Offset	Channel			SPP	MPE	Max. Tense-up (dBm)
				1875	1890	1915			
20M	QPSK	50	0	23.75	23.75	0	25.5		
			1	24.14	24.14	0	25.5		
			1	24.53	24.53	0	25.5		
			1	24.92	24.92	0	25.5		
			1	25.31	25.31	0	25.5		
			1	25.70	25.70	0	25.5		
	16QAM	0	22.73	22.65	22.64	1	24.5		
		1	22.76	22.68	22.67	1	24.5		
		1	22.79	22.71	22.70	1	24.5		
		1	22.82	22.74	22.73	1	24.5		
		1	22.85	22.77	22.76	1	24.5		
		1	22.88	22.80	22.79	1	24.5		
64QAM	0	21.89	21.81	21.80	2	23.5			
	1	21.92	21.84	21.83	2	23.5			
	1	21.95	21.87	21.86	2	23.5			
	1	21.98	21.90	21.89	2	23.5			
	1	22.01	21.93	21.92	2	23.5			
	1	22.04	21.96	21.95	2	23.5			

LTE Band 4									
BW	Modulation	RB Size	RB Offset	Channel			SPP	MPE	Max. Tense-up (dBm)
				1715	1730	1755			
20M	QPSK	50	0	23.75	23.75	0	25.5		
			1	24.14	24.14	0	25.5		
			1	24.53	24.53	0	25.5		
			1	24.92	24.92	0	25.5		
			1	25.31	25.31	0	25.5		
			1	25.70	25.70	0	25.5		
	16QAM	0	23.17	23.17	23.17	1	24.5		
		1	23.20	23.20	23.20	1	24.5		
		1	23.23	23.23	23.23	1	24.5		
		1	23.26	23.26	23.26	1	24.5		
		1	23.29	23.29	23.29	1	24.5		
		1	23.32	23.32	23.32	1	24.5		
64QAM	0	21.91	21.83	21.82	2	23.5			
	1	21.94	21.86	21.85	2	23.5			
	1	21.97	21.89	21.88	2	23.5			
	1	22.00	21.92	21.91	2	23.5			
	1	22.03	21.95	21.94	2	23.5			
	1	22.06	21.98	21.97	2	23.5			

LTE Band 5									
BW	Modulation	RB Size	RB Offset	Channel			SPP	MPE	Max. Tense-up (dBm)
				1845	1860	1885			
20M	QPSK	50	0	23.75	23.75	0	25.5		
			1	24.14	24.14	0	25.5		
			1	24.53	24.53	0	25.5		
			1	24.92	24.92	0	25.5		
			1	25.31	25.31	0	25.5		
			1	25.70	25.70	0	25.5		
	16QAM	0	23.17	23.17	23.17	1	24.5		
		1	23.20	23.20	23.20	1	24.5		
		1	23.23	23.23	23.23	1	24.5		
		1	23.26	23.26	23.26	1	24.5		
		1	23.29	23.29	23.29	1	24.5		
		1	23.32	23.32	23.32	1	24.5		
64QAM	0	21.91	21.83	21.82	2	23.5			
	1	21.94	21.86	21.85	2	23.5			
	1	21.97	21.89	21.88	2	23.5			
	1	22.00	21.92	21.91	2	23.5			
	1	22.03	21.95	21.94	2	23.5			
	1	22.06	21.98	21.97	2	23.5			





## WWAN DSI-3 Power & DSI-4 Power Ant1(MAIN)

Band	GSM850				GSM1900			
	Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.08	32.11	32.15	33.50	27.35	27.36	27.26	28.50
GPRS 1Tx Slot	32.06	32.09	32.14	33.50	27.33	27.35	27.24	28.50
GPRS 2Tx Slot	28.61	28.64	28.69	30.00	22.59	22.66	22.60	23.70
GPRS 3Tx Slot	27.21	27.23	27.30	28.50	20.83	20.93	20.87	22.00
GPRS 4Tx Slot	26.23	26.26	26.32	27.50	19.74	19.89	19.81	21.00
EDGE 1Tx Slot	26.41	26.39	26.30	28.00	25.02	25.16	25.07	27.00
EDGE 2Tx Slot	23.43	23.49	23.56	25.00	21.10	21.29	21.14	23.00
EDGE 3Tx Slot	21.84	21.71	21.57	23.20	19.25	19.24	19.32	21.20
EDGE 4Tx Slot	20.12	20.14	20.05	22.00	18.66	18.71	18.65	20.50

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
	Channel	128	189		251	512	661	
GSM	23.08	23.11	23.15	24.50	18.35	18.36	18.26	19.50
GPRS 1Tx Slot	23.06	23.09	23.14	24.50	18.33	18.35	18.24	19.50
GPRS 2Tx Slot	22.61	22.64	22.69	24.00	16.59	16.66	16.60	17.70
GPRS 3Tx Slot	22.95	22.97	23.04	24.24	16.57	16.67	16.61	17.74
GPRS 4Tx Slot	23.23	23.26	23.32	24.50	16.74	16.89	16.81	18.00
EDGE 1Tx Slot	17.41	17.39	17.30	19.00	16.02	16.16	16.07	18.00
EDGE 2Tx Slot	17.43	17.49	17.56	19.00	15.10	15.29	15.14	17.00
EDGE 3Tx Slot	17.58	17.45	17.31	18.94	14.99	14.98	15.06	16.94
EDGE 4Tx Slot	17.12	17.14	17.05	19.00	15.66	15.71	15.65	17.50

Band	WCDMA II			WCDMA II Max. Tune-up Power (dBm)	WCDMA IV			WCDMA IV Max. Tune-up Power (dBm)	WCDMA V			WCDMA V Max. Tune-up Power (dBm)
	Tx Channel	9262	9400		9538	1312	1413		1513	4132	4182	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	20.37	20.25	20.28	21.50	20.55	20.52	20.49	21.50	24.24	24.20	24.17	25.50
HSDPA Subtest-1	19.54	19.36	19.47	20.00	19.68	19.70	19.59	20.00	23.39	23.37	23.30	24.00
HSDPA Subtest-2	19.49	19.38	19.46	20.00	19.71	19.64	19.63	20.00	23.44	23.33	23.34	24.00
HSDPA Subtest-3	19.01	18.94	18.94	20.00	19.16	19.21	19.14	20.00	22.94	22.89	22.86	24.00
HSDPA Subtest-4	19.07	18.85	18.98	20.00	19.24	19.15	19.15	20.00	22.90	22.88	22.85	24.00
DC-HSDPA Subtest-1	19.55	19.37	19.39	20.00	19.72	19.63	19.62	20.00	23.43	23.33	23.28	24.00
DC-HSDPA Subtest-2	19.50	19.36	19.40	20.00	19.72	19.69	19.62	20.00	23.40	23.37	23.31	24.00
DC-HSDPA Subtest-3	18.98	18.94	18.94	20.00	19.16	19.21	19.15	20.00	22.88	22.82	22.82	24.00
DC-HSDPA Subtest-4	19.02	18.87	18.94	20.00	19.24	19.18	19.15	20.00	22.88	22.89	22.83	24.00
HSUPA Subtest-1	17.72	17.62	17.59	19.00	17.85	17.87	17.80	19.00	21.61	21.50	21.49	23.00
HSUPA Subtest-2	17.43	17.28	17.37	19.00	17.59	17.58	17.49	19.00	21.30	21.21	21.17	23.00
HSUPA Subtest-3	18.35	18.16	18.21	19.00	18.51	18.43	18.47	19.00	22.23	22.15	22.11	23.00
HSUPA Subtest-4	17.19	17.07	17.09	19.00	17.15	17.12	17.12	19.00	21.18	21.11	21.07	23.00
HSUPA Subtest-5	18.35	18.16	18.19	19.00	18.45	18.44	18.43	19.00	22.15	22.17	22.16	23.00
HSPA+ Subtest-1	17.65	17.48	17.48	19.00	17.78	17.71	17.75	19.00	21.49	21.45	21.36	23.00





LTE Band 7								
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel	Frequency (MHz)	2395	2110	2150		
20M	QPSK	1	0	20.27	20.22	20.28	21.5	
		1	50	20.42	20.44	20.51	21.5	
		1	99	20.27	20.37	20.38	21.5	
		50	0	20.19	20.28	20.33	21.5	
		50	25	20.35	20.39	20.34	21.5	
		50	50	20.35	20.28	20.31	21.5	
		100	0	20.44	20.37	20.42	21.5	
		1	0	20.01	20.05	20.06	21.5	
		1	50	20.29	20.36	20.38	21.5	
		1	99	20.13	20.09	20.12	21.5	
		50	0	20.18	20.28	20.32	21.5	
		50	25	20.35	20.38	20.48	21.5	
	50	50	20.28	20.38	20.42	21.5		
	100	0	20.29	20.34	20.39	21.5		
	16QAM	1	0	20.02	19.93	19.99	21.5	
		1	50	20.35	20.38	20.39	21.5	
		1	99	20.20	20.09	20.19	21.5	
		50	0	20.23	20.22	20.30	21.5	
		50	25	20.33	20.29	20.32	21.5	
		50	50	20.26	20.37	20.31	21.5	
		100	0	20.39	20.29	20.40	21.5	
		64QAM	1	0	20.02	19.93	19.99	21.5
			1	50	20.35	20.38	20.39	21.5
			1	99	20.20	20.09	20.19	21.5
50			0	20.23	20.22	20.30	21.5	
50			25	20.33	20.29	20.32	21.5	
50	50		20.26	20.37	20.31	21.5		
100	0		20.39	20.29	20.40	21.5		
BW	Modulation		Channel	Frequency (MHz)	2882.5	2110	2137.5	Max. Tune-up (dBm)
			Frequency (MHz)	2887.5	2335	2862.5	21.5	
15M	QPSK		1	0	20.19	20.18	20.27	21.5
			1	37	20.27	20.41	20.42	21.5
			1	74	20.25	20.25	20.31	21.5
		36	0	20.07	20.23	20.20	21.5	
		36	19	20.33	20.27	20.33	21.5	
		36	39	20.26	20.25	20.23	21.5	
		75	0	20.37	20.23	20.41	21.5	
		1	0	19.91	19.95	19.91	21.5	
		1	37	20.15	20.21	20.25	21.5	
		1	74	20.27	19.94	20.11	21.5	
		36	0	20.16	20.25	20.25	21.5	
		36	19	20.21	20.26	20.44	21.5	
	36	39	20.19	20.27	20.38	21.5		
	75	0	20.21	20.26	20.32	21.5		
	16QAM	1	0	19.90	19.80	19.93	21.5	
		1	37	20.33	20.34	20.26	21.5	
		1	74	20.14	19.95	20.18	21.5	
		36	0	20.18	20.08	20.27	21.5	
		36	19	20.27	20.16	20.18	21.5	
		36	39	20.25	20.31	20.22	21.5	
		75	0	20.24	20.27	20.34	21.5	
		64QAM	1	0	19.90	19.80	19.93	21.5
			1	37	20.33	20.34	20.26	21.5
			1	74	20.14	19.95	20.18	21.5
36			0	20.18	20.08	20.27	21.5	
36			19	20.27	20.16	20.18	21.5	
36	39		20.25	20.31	20.22	21.5		
75	0		20.24	20.27	20.34	21.5		
BW	Modulation		Channel	Frequency (MHz)	2880	2100	2140	Max. Tune-up (dBm)
			Frequency (MHz)	2905	2335	2865	21.5	
10M	QPSK		1	0	20.19	20.09	20.26	21.5
			1	24	20.40	20.39	20.45	21.5
			1	49	20.20	20.26	20.34	21.5
		25	0	20.05	20.22	20.18	21.5	
		25	12	20.21	20.38	20.24	21.5	
		25	25	20.27	20.27	20.27	21.5	
		50	0	20.34	20.25	20.34	21.5	
		1	0	19.98	19.90	19.96	21.5	
		1	24	20.28	20.23	20.28	21.5	
		1	49	19.98	20.01	19.99	21.5	
		25	0	20.16	20.16	20.20	21.5	
		25	12	20.30	20.30	20.44	21.5	
	25	25	20.15	20.36	20.31	21.5		
	50	0	20.21	20.21	20.20	21.5		
	16QAM	1	0	19.97	19.92	19.94	21.5	
		1	24	20.27	20.35	20.38	21.5	
		1	49	20.06	20.05	20.04	21.5	
		25	0	20.18	20.17	20.21	21.5	
		25	12	20.30	20.19	20.30	21.5	
		25	25	20.23	20.28	20.26	21.5	
		50	0	20.31	20.15	20.34	21.5	
		64QAM	1	0	19.97	19.92	19.94	21.5
			1	24	20.27	20.35	20.38	21.5
			1	49	20.06	20.05	20.04	21.5
25			0	20.18	20.17	20.21	21.5	
25			12	20.30	20.19	20.30	21.5	
25	25		20.23	20.28	20.26	21.5		
50	0		20.31	20.15	20.34	21.5		
BW	Modulation		Channel	Frequency (MHz)	2877.5	2100	2142.5	Max. Tune-up (dBm)
			Frequency (MHz)	2922.5	2335	2872.5	21.5	
5M	QPSK		1	0	20.23	20.10	20.14	21.5
			1	12	20.29	20.30	20.46	21.5
			1	24	20.25	20.27	20.38	21.5
		12	0	20.08	20.21	20.20	21.5	
		12	6	20.20	20.25	20.27	21.5	
		12	13	20.26	20.25	20.31	21.5	
		25	0	20.38	20.24	20.27	21.5	
		1	0	19.99	19.98	19.98	21.5	
		1	12	20.17	20.24	20.33	21.5	
		1	24	20.07	20.06	20.06	21.5	
		12	0	20.14	20.19	20.30	21.5	
		12	6	20.32	20.33	20.38	21.5	
	12	13	20.22	20.24	20.40	21.5		
	25	0	20.14	20.25	20.32	21.5		
	16QAM	1	0	19.98	19.87	19.92	21.5	
		1	12	20.29	20.21	20.34	21.5	
		1	24	20.18	20.04	20.10	21.5	
		12	0	20.19	20.08	20.25	21.5	
		12	6	20.20	20.26	20.18	21.5	
		12	13	20.14	20.31	20.29	21.5	
		25	0	20.33	20.22	20.26	21.5	
		64QAM	1	0	19.98	19.87	19.92	21.5
			1	12	20.29	20.21	20.34	21.5
			1	24	20.18	20.04	20.10	21.5
12			0	20.19	20.08	20.25	21.5	
12			6	20.20	20.26	20.18	21.5	
12	13		20.14	20.31	20.29	21.5		
25	0		20.33	20.22	20.26	21.5		

LTE Band 13								
BW	Modulation	RB Size	RB Offset	Mid	High	Max. Tune-up (dBm)		
		Channel	Frequency (MHz)	2320	2320			
10M	QPSK	1	0	24.00	24.00	25.5		
		1	24	24.11	24.11	25.5		
		1	49	23.85	23.85	25.5		
		25	0	23.09	23.09	24.5		
		25	12	22.98	22.98	24.5		
		25	25	23.04	23.04	24.5		
		50	0	23.15	23.15	24.5		
		1	0	23.07	23.07	24.5		
		1	24	23.28	23.28	24.5		
		1	49	23.05	23.05	24.5		
		25	0	22.18	22.18	23.5		
		25	12	22.11	22.11	23.5		
	25	25	22.14	22.14	23.5			
	50	0	22.20	22.20	23.5			
	1	0	22.15	22.15	23.5			
	16QAM	1	0	23.07	23.07	24.5		
		1	24	23.28	23.28	24.5		
		1	49	23.05	23.05	24.5		
		25	0	22.18	22.18	23.5		
		25	12	22.11	22.11	23.5		
		25	25	22.14	22.14	23.5		
		50	0	22.20	22.20	23.5		
		1	0	22.15	22.15	23.5		
		64QAM	1	0	23.07	23.07	24.5	
1			24	23.28	23.28	24.5		
1			49	23.05	23.05	24.5		
25			0	22.18	22.18	23.5		
25	12		22.11	22.11	23.5			
25	25		22.14	22.14	23.5			
50	0		22.20	22.20	23.5			
1	0		22.15	22.15	23.5			
BW	Modulation		Channel	Frequency (MHz)	2320.5	2320	2326	Max. Tune-up (dBm)
			Frequency (MHz)	2325	2320	2326	24.5	
5M	QPSK		1	0	23.99	23.95	23.99	24.5
			1	12	24.03	24.04	23.99	24.5
		1	24	23.81	23.71	23.80	24.5	
		12	0	23.08	22.99	23.02	24.5	
		12	6	22.90	22.84	22.95	24.5	
		12	13	22.92	22.97	23.03	24.5	
		25	0	23.05	23.07	23.12	24.5	
		1	0	22.96	23.01	23.06	24.5	
		1	12	23.23	23.24	23.26	24.5	
		1	24	22.90	22.91	22.91	24.5	
		12	0	22.13	22.03	22.09	23.5	
		12	6	21.98	21.99	21.99	23.5	
	12	13	22.00	22.00	22.13	23.5		
	25	0	22.13	22.11	22.10	23.5		
	16QAM	1	0	22.02	22.00	22.12	23.5	
		1	12	22.22	22.20	22.15	23.5	
		1	24	21.99	22.12	22.07	23.5	
		12	0	21.02	21.05	20.97	22.5	
		12	6	20.96	20.91	21.03	22.5	
		12	13	20.94	20.92	21.06	22.5	
		25	0	21.08	20.99	21.04	22.5	
		64QAM	1	0	22.02	22.00	22.12	23.5
			1	12	22.22	22.20	22.15	23.5
			1	24	21.99	22.12	22.07	23.5
12			0	21.02	21.05	20.97	22.5	
12			6	20.96	20.91	21.03	22.5	
12	13		20.94	20.92	21.06	22.5		
25	0		21.08	20.99	21.04	22.5		

LTE Band 26							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel	Frequency (MHz)	2676.5	2686	2696.5	
15M	QPSK	1	0	23.69	23.64	23.60	

LTE Band 38									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
				3780	3800	3810			
20M	QPSK	50	0	23.19	23.19	23.19	24.5		
				1	50	23.55	23.65	23.49	24.5
				1	99	23.20	23.67	23.15	24.5
				1	50	23.33	23.35	23.41	24.5
				50	25	23.29	23.37	23.33	24.5
				50	50	23.34	23.43	23.23	24.5
	16QAM	100	0	23.42	23.41	23.41	24.5		
				1	0	23.17	23.17	23.09	24.5
				1	50	23.41	23.51	23.41	24.5
				1	99	23.06	23.19	23.13	24.5
				50	25	22.22	22.26	22.15	23.5
				50	50	22.22	22.26	22.15	23.5
64QAM	100	0	22.21	22.28	22.20	23.5			
			1	0	21.80	21.85	21.81	23.5	
			1	50	22.01	22.13	21.98	23.5	
			1	99	21.87	21.93	21.78	23.5	
			50	0	21.23	21.20	21.23	23.5	
			50	25	21.15	21.20	21.23	23.5	
15M	QPSK	36	0	23.19	23.19	23.19	24.5		
				1	37	23.51	23.55	23.42	24.5
				1	74	23.17	23.17	23.00	24.5
				36	0	23.30	23.25	23.29	24.5
				36	19	23.24	23.30	23.30	24.5
				36	39	23.30	23.42	23.10	24.5
	16QAM	75	0	23.36	23.29	23.34	24.5		
				1	0	23.06	23.04	23.08	24.5
				1	37	23.40	23.49	23.31	24.5
				1	74	23.04	23.09	23.03	24.5
				36	0	22.22	22.14	22.03	23.5
				36	19	22.12	22.24	22.10	23.5
64QAM	75	0	22.18	22.22	22.10	23.5			
			1	0	22.13	22.18	22.12	23.5	
			1	0	21.65	21.78	21.66	23.5	
			1	37	21.86	22.11	21.92	23.5	
			1	74	21.77	21.88	21.75	23.5	
			36	0	21.19	21.19	21.11	22.5	
10M	QPSK	25	0	23.19	23.19	23.19	24.5		
				1	49	23.08	23.14	23.12	24.5
				25	0	23.27	23.25	23.30	24.5
				25	12	23.25	23.28	23.29	24.5
				25	25	23.20	23.29	23.08	24.5
				50	0	23.36	23.27	23.37	24.5
	16QAM	50	0	23.08	23.16	23.04	24.5		
				1	24	23.32	23.50	23.36	24.5
				1	49	22.92	23.10	23.05	24.5
				25	0	22.22	22.09	22.16	23.5
				25	12	22.01	22.18	22.13	23.5
				25	25	22.21	22.12	22.06	23.5
64QAM	50	0	22.17	22.21	22.12	23.5			
			1	0	21.76	21.70	21.67	23.5	
			1	24	22.00	22.11	21.91	23.5	
			1	49	21.85	21.84	21.74	23.5	
			25	0	21.22	21.11	21.16	22.5	
			25	12	21.13	21.08	21.12	22.5	
5M	QPSK	12	0	23.19	23.19	23.19	24.5		
				1	24	23.14	23.24	23.14	24.5
				12	0	23.22	23.26	23.29	24.5
				12	6	23.17	23.34	23.28	24.5
				12	13	23.19	23.41	23.18	24.5
				25	0	23.30	23.26	23.31	24.5
	16QAM	12	0	23.05	23.08	23.04	24.5		
				1	12	23.37	23.49	23.28	24.5
				1	24	22.92	23.12	23.06	24.5
				12	0	22.14	22.06	22.05	23.5
				12	6	22.09	22.20	22.04	23.5
				12	13	22.09	22.25	22.07	23.5
64QAM	12	0	22.15	22.16	22.17	23.5			
			1	0	21.65	21.75	21.74	23.5	
			1	12	21.89	22.12	21.91	23.5	
			1	24	21.75	21.89	21.85	23.5	
			12	0	21.09	21.10	21.12	22.5	
			12	6	21.06	21.09	21.18	22.5	

LTE Band 41 (2496 - 2690MHz)									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
				2496	2516	2536			
20M	QPSK	50	0	22.89	22.73	22.75	24.5		
				1	50	23.04	22.91	22.95	24.5
				1	99	22.58	22.67	22.58	24.5
				50	0	22.84	22.73	22.74	24.5
				50	25	22.86	22.82	22.75	24.5
				50	50	22.85	22.86	22.87	24.5
	16QAM	100	0	22.93	22.80	22.87	24.5		
				1	0	22.63	22.65	22.56	24.5
				1	50	22.90	22.79	22.89	24.5
				1	99	22.67	22.56	22.52	24.5
				50	0	21.94	21.80	21.71	23.5
				50	25	21.89	21.92	21.88	23.5
64QAM	100	0	22.02	21.88	21.91	23.5			
			1	0	21.59	21.94	21.80	23.5	
			1	50	21.83	21.70	21.79	23.5	
			1	99	21.42	21.39	21.41	23.5	
			50	0	20.81	20.78	20.82	23.5	
			50	25	20.82	20.87	20.85	23.5	
15M	QPSK	36	0	22.89	22.73	22.75	24.5		
				1	37	23.04	22.91	22.95	24.5
				1	74	22.58	22.55	22.59	24.5
				36	0	22.78	22.67	22.72	24.5
				36	19	22.79	22.67	22.61	24.5
				36	39	22.72	22.76	22.70	24.5
	16QAM	75	0	22.85	22.66	22.62	24.5		
				1	0	22.53	22.51	22.53	24.5
				1	37	22.76	22.77	22.84	24.5
				1	74	22.62	22.44	22.79	24.5
				36	0	21.83	21.67	21.79	23.5
				36	19	21.78	21.78	21.73	23.5
64QAM	75	0	21.84	21.82	21.83	23.5			
			1	0	21.90	21.90	21.81	23.5	
			1	0	21.35	21.40	21.30	23.5	
			1	37	21.78	21.59	21.64	23.5	
			1	74	21.37	21.32	21.29	23.5	
			36	0	20.73	20.75	20.59	23.5	
10M	QPSK	25	0	22.89	22.73	22.75	24.5		
				1	49	22.92	22.99	22.92	24.5
				25	0	22.82	22.68	22.63	24.5
				25	12	22.80	22.73	22.64	24.5
				25	25	22.79	22.73	22.75	24.5
				50	0	22.79	22.74	22.84	24.5
	16QAM	50	0	22.60	22.53	22.57	24.5		
				1	24	22.87	22.70	22.86	24.5
				1	49	22.54	22.52	22.49	24.5
				25	0	21.92	21.85	21.78	23.5
				25	12	21.82	21.87	21.74	23.5
				25	25	21.90	21.86	21.83	23.5
64QAM	50	0	21.90	21.91	21.76	23.5			
			1	0	21.27	21.30	21.24	23.5	
			1	24	21.76	21.68	21.53	23.5	
			1	49	21.32	21.35	21.40	23.5	
			25	0	20.71	20.72	20.51	23.5	
			25	12	20.88	20.73	20.79	23.5	
5M	QPSK	12	0	22.89	22.73	22.75	24.5		
				1	24	22.65	22.63	22.68	24.5
				12	0	22.77	22.71	22.74	24.5
				12	6	22.73	22.68	22.74	24.5
				12	13	22.77	22.78	22.72	24.5
				25	0	22.80	22.66	22.66	24.5
	16QAM	12	0	22.48	22.46	22.47	24.5		
				1	12	22.80	22.78	22.70	24.5
				1	24	22.53	22.52	22.41	24.5
				12	0	21.86	21.86	21.78	23.5
				12	6	21.80	21.86	21.82	23.5
				12	13	21.96	21.78	21.70	23.5
64QAM	12	0	21.94	21.88	21.85	23.5			
			1	0	21.31	21.43	21.28	23.5	
			1	12	21.71	21.05	21.65	23.5	
			1	24	21.27	21.36	21.21	23.5	
			12	0	20.80	20.74	20.77	23.5	
			12	6	20.87	20.81	20.76	23.5	

LTE Band 66									
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
				13272	13222	13272			
20M	QPSK	50	0	1727.5	1727.5	1727.5	21.5		
				1	0	20.25	20.22	20.15	21.5
				1	50	20.45	20.48	20.40	21.5
				1	99	20.05	20.07	20.12	21.5
				50	0	20.22	20.29	20.16	21.5
				50	25	20.26	20.32	20.28	21.5
	16QAM	100	0	20.21	20.20	20.14	21.5		
				1	0	20.20	20.23	20.10	21.5
				1	0	20.07	20.13	20.05	21.5
				1	50	20.39	20.42	20.34	21.5
				1	99	20.04	20.10	20.02	21.5
				50	0	20.21	20.23	20.27	21.5
64QAM	100	0	20.13	20.18	20.19	21.5			
			1	0	20.12	20.14	20.01	21.5	
			1	0	20.17	20.17	20.11	21.5	
			1	0	19.95	19.90	19.89	21.5	
			1	50	20.22	20.34	20.19	21.5	
			1	99	19.85	19.75	19.78	21.5	
15M	QPSK	36	0	1727.5	1727.5	1727.5	21.5		
				1	0	20.20	20.21	20.08	21.5
				1	37	20.34	20.43	20.37	21.5
				1	74	19.99	19.98	19.98	21.5
				36	0	20.28	20.18	20.09	21.5
				36	19	20.16	20.12	20.17	21.5
	16QAM	75	0	19.99	20.05	20.05	21.5		
				1	0	20.12	20.08	20.00	21.5
				1	0	19.97	20.09		

## WWAN Full Power & DSI-2 Power Ant2(DIV)

Band	GSM850				GSM1900				
	Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8		
GSM	31.95	31.96	32.04	33.50	29.57	29.68	29.52	30.50	
GPRS 1Tx Slot	31.93	31.94	32.02	33.50	29.56	29.66	29.51	30.50	
GPRS 2Tx Slot	28.49	28.49	28.57	30.00	25.80	25.96	25.87	26.70	
GPRS 3Tx Slot	27.11	27.10	27.08	28.50	24.01	24.19	24.14	25.00	
GPRS 4Tx Slot	26.14	26.14	26.22	27.50	23.08	23.27	23.23	24.00	
EDGE 1Tx Slot	26.90	26.72	26.77	28.00	25.42	25.39	25.59	27.00	
EDGE 2Tx Slot	23.96	23.79	23.93	25.00	22.14	22.09	22.34	24.00	
EDGE 3Tx Slot	22.28	22.10	22.16	23.20	20.29	20.25	20.48	22.20	
EDGE 4Tx Slot	20.88	20.53	20.64	22.00	19.54	19.37	19.50	21.00	

Source-Based Time-Averaged Power									
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)	
	Channel	128	189		251	512	661		810
GSM		22.95	22.96	23.04	24.50	20.57	20.68	20.52	21.50
GPRS 1Tx Slot		22.93	22.94	23.02	24.50	20.56	20.66	20.51	21.50
GPRS 2Tx Slot		22.49	22.49	22.57	24.00	19.80	19.96	19.87	20.70
GPRS 3Tx Slot		22.85	22.84	22.82	24.24	19.75	19.93	19.88	20.74
GPRS 4Tx Slot		23.14	23.14	23.22	24.50	20.08	20.27	20.23	21.00
EDGE 1Tx Slot		17.90	17.72	17.77	19.00	16.42	16.39	16.59	18.00
EDGE 2Tx Slot		17.96	17.79	17.93	19.00	16.14	16.09	16.34	18.00
EDGE 3Tx Slot		18.02	17.84	17.90	18.94	16.03	15.99	16.22	17.94
EDGE 4Tx Slot		17.88	17.53	17.64	19.00	16.54	16.37	16.50	18.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V	
	TX Channel	9262	9400		9538	Max. Tune-up Power (dBm)	1312		1413	1513	Max. Tune-up Power (dBm)		4132
Rx Channel	9662	9800	9938			1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6			1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.45	24.39	24.40	25.50	24.56	24.54	24.55	25.50	24.12	24.09	24.10	25.50	
HSDPA Subtest-1	23.63	23.59	23.51	24.00	23.73	23.71	23.75	24.00	23.30	23.23	23.20	24.00	
HSDPA Subtest-2	23.62	23.51	23.59	24.00	23.69	23.69	23.66	24.00	23.26	23.19	23.22	24.00	
HSDPA Subtest-3	23.13	23.00	23.01	24.00	23.19	23.18	23.15	24.00	22.75	22.74	22.77	24.00	
HSDPA Subtest-4	23.07	23.06	22.99	24.00	23.24	23.24	23.21	24.00	22.80	22.72	22.70	24.00	
DC-HSDPA Subtest-1	23.55	23.56	23.49	24.00	23.75	23.70	23.65	24.00	23.29	23.22	23.26	24.00	
DC-HSDPA Subtest-2	23.56	23.50	23.49	24.00	23.65	23.69	23.67	24.00	23.27	23.27	23.22	24.00	
DC-HSDPA Subtest-3	23.14	23.02	23.02	24.00	23.18	23.17	23.23	24.00	22.80	22.75	22.72	24.00	
DC-HSDPA Subtest-4	23.11	23.07	23.10	24.00	23.22	23.23	23.22	24.00	22.72	22.78	22.76	24.00	
HSUPA Subtest-1	21.75	21.76	21.77	23.00	21.91	21.89	21.93	23.00	21.44	21.46	21.42	23.00	
HSUPA Subtest-2	21.45	21.45	21.39	23.00	21.57	21.54	21.60	23.00	21.12	21.15	21.18	23.00	
HSUPA Subtest-3	22.40	22.35	22.30	23.00	22.46	22.49	22.48	23.00	22.12	22.07	22.01	23.00	
HSUPA Subtest-4	21.10	21.01	21.09	23.00	21.18	21.24	21.20	23.00	21.09	21.07	21.10	23.00	
HSUPA Subtest-5	22.37	22.29	22.40	23.00	22.50	22.44	22.55	23.00	22.08	22.07	22.02	23.00	
HSPA+ Subtest-1	21.73	21.61	21.61	23.00	21.78	21.76	21.84	23.00	21.39	21.33	21.40	23.00	

LTE Band 2										
BW	Modulation	RB Size	RB Offset	Channel			SPP	MPE	Max. Twp-up (dBm)	
				Low	Mid	High				
				1875	1890	1915	1925	1935	1945	
				1880	1895	1910	1920	1930	1940	
				Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	
20M	QPSK	50	0	24.09	24.04	23.94	0	25.5		
				50	24.37	24.29	24.21	0	25.5	
				1	99	23.98	23.80	23.70	0	25.5
				50	0	23.22	23.24	23.11	1	24.5
				50	25	23.15	23.11	23.06	1	24.5
	16QAM	50	0	23.21	23.16	23.06	1	24.5		
				50	25	22.15	22.14	22.05	2	23.5
				50	50	22.33	22.06	22.11	2	23.5
				100	0	22.28	22.19	22.05	2	23.5
				1	0	22.22	22.22	22.09	2	23.5
64QAM	50	0	22.47	22.23	22.28	2	23.5			
			1	99	22.14	22.10	21.86	2	23.5	
			50	0	21.10	21.19	20.94	3	22.5	
			50	25	21.10	21.10	20.88	3	22.5	
			50	50	21.13	21.00	21.09	3	22.5	
100	0	21.24	21.11	21.02	3	22.5				
10M	QPSK	36	0	23.40	23.39	23.31	0	25.5		
				1	37	23.31	23.16	23.07	0	25.5
				1	74	23.84	23.65	23.65	0	25.5
				36	0	23.17	23.14	23.07	1	24.5
				36	19	23.04	23.05	22.98	1	24.5
	16QAM	36	0	23.12	23.10	23.07	1	24.5		
				36	39	23.21	23.13	23.07	1	24.5
				36	19	22.07	21.99	22.00	2	23.5
				36	39	22.32	21.99	21.99	2	23.5
				75	0	22.24	22.10	21.93	2	23.5
64QAM	36	0	22.18	22.12	22.02	2	23.5			
			1	37	22.37	22.16	22.21	2	23.5	
			1	74	22.07	22.04	21.79	2	23.5	
			36	0	20.99	21.11	20.80	3	22.5	
			36	19	20.99	21.08	20.78	3	22.5	
75	0	21.11	21.05	21.07	3	22.5				
100	0	21.21	21.06	20.94	3	22.5				
20M	QPSK	50	0	23.94	23.92	23.86	0	25.5		
				1	24	24.23	24.16	24.08	0	25.5
				1	49	23.89	23.71	23.66	0	25.5
				25	0	23.20	23.16	22.98	1	24.5
				25	12	23.01	22.99	22.93	1	24.5
	16QAM	25	0	23.25	23.25	23.08	1	24.5		
				25	25	23.24	23.11	23.08	1	24.5
				1	0	23.18	23.09	22.88	1	24.5
				1	24	23.39	23.37	23.25	1	24.5
				1	49	22.95	22.98	22.97	1	24.5
64QAM	25	0	22.04	22.10	22.05	2	23.5			
			25	12	22.03	22.09	22.04	2	23.5	
			25	25	22.28	21.92	22.00	2	23.5	
			50	0	22.18	22.05	21.84	2	23.5	
			1	0	22.11	22.15	21.95	2	23.5	
10M	QPSK	25	0	24.06	24.02	23.96	0	25.5		
				1	24	24.35	24.28	24.20	0	25.5
				1	49	23.91	23.67	23.68	0	25.5
				12	0	23.18	23.21	22.99	1	24.5
				12	6	23.08	23.04	22.99	1	24.5
	16QAM	12	0	23.21	23.20	22.98	1	24.5		
				12	13	23.21	23.08	22.98	1	24.5
				25	0	23.18	23.07	22.94	1	24.5
				1	0	23.11	23.23	22.94	1	24.5
				1	12	23.39	23.35	23.29	1	24.5
64QAM	12	0	23.03	23.01	22.96	1	24.5			
			12	6	22.95	22.97	22.96	1	24.5	
			12	13	22.94	22.92	22.86	1	24.5	
			12	6	22.03	22.06	21.93	2	23.5	
			12	13	22.19	21.84	21.99	2	23.5	
25	0	22.25	22.16	22.03	2	23.5				
20M	QPSK	50	0	22.10	22.18	21.88	2	23.5		
				1	12	22.43	22.10	22.02	2	23.5
				1	24	22.03	21.99	21.79	2	23.5
				12	0	21.08	21.15	20.83	3	22.5
				12	6	21.09	21.08	20.84	3	22.5
	16QAM	12	0	21.03	21.10	21.02	3	22.5		
				12	13	21.10	21.02	21.03	3	22.5
				25	0	21.12	21.00	20.93	3	22.5
				1	0	22.16	22.15	22.01	2	23.5
				1	7	22.25	22.14	22.21	2	23.5
10M	QPSK	36	0	23.99	23.99	23.90	0	25.5		
				1	7	24.24	24.23	24.16	0	25.5
				1	14	23.85	23.71	23.62	0	25.5
				8	0	23.12	23.17	23.00	1	24.5
				8	3	23.01	23.05	22.99	1	24.5
	16QAM	8	0	23.27	23.02	22.97	1	24.5		
				15	0	23.23	23.09	23.06	1	24.5
				1	0	23.06	23.15	22.95	1	24.5
				1	7	23.57	23.36	23.35	1	24.5
				1	14	22.92	22.99	22.88	1	24.5
64QAM	8	0	22.09	22.07	21.96	2	23.5			
			8	3	22.11	22.13	21.90	2	23.5	
			8	7	22.20	21.95	22.05	2	23.5	
			15	0	22.21	22.08	22.04	2	23.5	
			1	0	22.16	22.15	22.01	2	23.5	
20M	QPSK	50	0	24.02	23.99	23.91	0	25.5		
				1	2	24.32	24.26	24.18	0	25.5
				1	5	23.83	23.75	23.65	0	25.5
				3	0	23.98	24.03	23.91	0	25.5
				3	1	23.84	23.90	23.80	0	25.5
	16QAM	3	0	23.98	23.95	23.78	0	25.5		
				6	0	23.20	23.04	23.02	1	24.5
				1	0	23.10	23.22	22.96	1	24.5
				1	2	23.41	23.38	23.25	1	24.5
				1	5	22.90	22.90	22.95	1	24.5
64QAM	3	0	22.87	22.89	22.87	1	24.5			
			3	1	22.84	22.89	22.83	1	24.5	
			3	3	23.09	22.87	22.87	1	24.5	
			6	0	22.19	22.18	21.95	2	23.5	
			1	0	22.17	22.17	22.03	2	23.5	
10M	QPSK	36	0	23.43	23.42	23.32	0	25.5		
				1	5	23.83	23.75	23.65	0	25.5
				3	0	23.98	23.92	23.80	0	25.5
				3	1	23.84	23.89	23.80	0	25.5
				3	3	23.98	23.95	23.78	0	25.5
	16QAM	6	0	23.20	23.04	23.02	1	24.5		
				1	0	23.10	23.22	22.96	1	24.5
				1	2	23.41	23.38	23.25	1	24.5
				1	5	22.90	22.90	22.95	1	24.5
				3	0	22.87	22.89	22.87	1	24.5
64QAM	3	0	22.84	22.89	22.83	1	24.5			
			3	3	23.09	22.87	22.87	1	24.5	
			6	0	22.19	22.18	21.95	2	23.5	
			1	0	22.17	22.17	22.03	2	23.5	
			1	2	22.43	22.21	22.18	2	23.5	
20M	QPSK	50	0	24.09	24.04	23.94	0	25.5		
				1	50	24.37	24.29	24.21	0	25.5
				1	99	23.98	23.80	23.70	0	25.5
				50	0	23.22	23.24	23.11	1	24.5
				50	25	23.15	23.11	23.06	1	24.5
	16QAM	50	0	23.21	23.16	23.06	1	24.5		
				50	25	22.15	22.14	22.05	2	23.5
				50	50	22.33	22.06	22.11	2	23.5
				100	0	22.28	22.19	22.05	2	23.5
				1	0	22.22	22.22	22.09	2	23.5
64QAM	50	0	22.47	22.23	22.28	2	23.5			
			1	99	22.14	22.10	21.86	2	23.5	
			50	0	21.10	21.19	20.94	3	22.5	
			50	25	21.10	21.10	20.88	3	22.5	
			50	50	21.13	21.00	21.09	3	22.5	
100	0	21.24	21.11	21.02	3	22.5				

LTE Band 4										
BW	Modulation	RB Size	RB Offset	Channel			SPP	MPE	Max. Twp-up (dBm)	
				Low	Mid	High				
				1715	1732	1749	1750	1750	1750	
				1720	1732	1740	1740	1740	1740	
				Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	
20M	QPSK	50	0	24.06	24.02	23.96	0	25.5		
				1	50	24.19	24.08	24.00	0	25.5
				1	99	23.73	23.67	23.57	0	25.5
				50	0	23.14	23.01	22.87	1	24.5
				50	25	23.19	23.02	22.91	1	24.5
	16QAM	50	0	23.23	23.19	23.01	1	24.5		
				50	25	22.16	22.10	21.96	2	23.5
				50	50	22.24	22.06	21.89	2	23.5
				100	0	22.20	22.08	22.00	2	23.5
				1	0	21.99	21.87	21.70	2	23.5
64QAM	50	0	21.87	21.87	21.70	2	23.5			
			50	0	21.19	21.00	20.95	3	22.5	
			50	25	21.23	21.04	21.04	3	22.5	
			50	50	21.22	21.14	20.93	3	22.5	
			100	0	21.06	21.00	20.97	3	22.5	
10M	QPSK	36	0	23.92	23.92	23.76	0	25.5		

LTE Band 7									
BW	Modulation	RB Size Channel	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
			20850	21100	21350				
		Channel Frequency (MHz)	20850	21100	21350				
20M	QPSK	1	0	22.47	22.55	22.49	0	24	
		1	50	22.39	22.54	23.01	0	24	
		1	99	22.38	22.49	22.54	0	24	
		50	0	22.42	22.35	22.40	1	24	
		50	25	22.67	22.71	22.78	1	24	
	16QAM	50	50	22.68	22.70	22.61	1	24	
		100	0	22.52	22.52	22.62	1	24	
		1	0	22.42	22.44	22.39	1	24	
		1	50	22.59	22.65	22.71	1	24	
		1	99	22.26	22.25	22.18	1	24	
	64QAM	50	0	21.81	21.85	21.95	2	23	
		1	0	21.96	21.99	21.88	2	23	
		50	0	21.02	20.96	20.88	3	22	
		50	25	21.16	21.05	21.24	3	22	
		50	50	21.09	21.26	21.13	3	22	
	10M	QPSK	1	0	22.97	21.10	20.99	3	22
			1	0	21.82	21.89	21.92	2	23
			1	50	22.21	22.23	22.43	2	23
			50	0	21.02	20.96	20.88	3	22
			50	25	21.16	21.05	21.24	3	22
10M	16QAM	1	0	21.72	21.77	21.80	2	23	
		1	24	22.28	22.41	22.34	1	24	
		1	49	22.22	22.22	22.13	1	24	
		12	6	21.88	22.16	22.05	2	23	
		12	13	22.14	22.03	22.11	2	23	
10M	64QAM	1	0	21.69	21.84	21.81	2	23	
		1	24	22.18	22.16	22.41	2	23	
		1	49	22.14	22.11	21.81	2	23	
		25	12	21.14	21.00	21.15	3	22	
		25	25	20.95	21.20	21.06	3	22	
10M	QPSK	1	0	22.40	22.54	22.43	0	24	
		1	24	22.85	22.84	22.87	0	24	
		1	49	22.24	22.45	22.40	0	24	
		25	0	22.28	22.34	22.34	1	24	
		25	12	22.57	22.54	22.76	1	24	
10M	16QAM	25	25	22.63	22.55	22.57	1	24	
		50	0	22.47	22.39	22.52	1	24	
		1	0	22.38	22.41	22.34	1	24	
		1	24	22.46	22.52	22.69	1	24	
		1	49	22.13	22.12	22.10	1	24	
10M	64QAM	25	0	21.70	21.79	21.89	2	23	
		25	12	21.95	22.25	22.06	2	23	
		25	25	22.09	22.02	22.04	2	23	
		50	0	22.11	22.05	21.95	2	23	
		1	0	21.69	21.84	21.81	2	23	
10M	QPSK	1	0	22.32	22.54	22.44	0	24	
		1	12	22.86	22.82	22.87	0	24	
		1	24	22.24	22.42	22.53	0	24	
		12	0	22.35	22.21	22.31	1	24	
		12	6	22.60	22.65	22.66	1	24	
10M	16QAM	12	13	22.63	22.61	22.50	1	24	
		25	0	22.50	22.47	22.47	1	24	
		1	0	22.27	22.31	22.31	1	24	
		1	12	22.49	22.55	22.69	1	24	
		1	24	22.11	22.17	22.14	1	24	
10M	64QAM	12	0	21.76	21.76	21.94	2	23	
		12	6	21.88	22.16	22.05	2	23	
		12	13	22.14	22.03	22.11	2	23	
		25	0	22.01	22.10	21.93	2	23	
		1	0	21.70	21.74	21.87	2	23	
10M	QPSK	1	0	22.32	22.54	22.44	0	24	
		1	12	22.86	22.82	22.87	0	24	
		1	24	22.24	22.42	22.53	0	24	
		12	0	22.35	22.21	22.31	1	24	
		12	6	22.60	22.65	22.66	1	24	
10M	16QAM	12	13	22.63	22.61	22.50	1	24	
		25	0	22.50	22.47	22.47	1	24	
		1	0	22.27	22.31	22.31	1	24	
		1	12	22.49	22.55	22.69	1	24	
		1	24	22.11	22.17	22.14	1	24	
10M	64QAM	12	0	21.76	21.76	21.94	2	23	
		12	6	21.88	22.16	22.05	2	23	
		12	13	22.14	22.03	22.11	2	23	
		25	0	22.01	22.10	21.93	2	23	
		1	0	21.70	21.74	21.87	2	23	

LTE Band 13									
BW	Modulation	RB Size Channel	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
			2330	2330	2330				
		Channel Frequency (MHz)	2330	2330	2330				
10M	QPSK	1	0	23.96	24.23	24.23	0	25.5	
		1	24	23.81	23.81	23.81	0	25.5	
		25	0	23.44	23.44	23.44	1	24.5	
		25	12	23.08	23.08	23.08	1	24.5	
		25	25	23.30	23.30	23.30	1	24.5	
	16QAM	50	0	23.40	23.40	23.40	1	24.5	
		1	0	22.94	22.94	22.94	1	24.5	
		1	24	23.20	23.20	23.20	1	24.5	
		1	49	23.14	23.14	23.14	1	24.5	
		25	0	22.18	22.18	22.18	2	23.5	
	64QAM	25	12	22.17	22.17	22.17	2	23.5	
		25	25	22.13	22.13	22.13	2	23.5	
		50	0	22.24	22.24	22.24	2	23.5	
		1	0	22.32	22.32	22.32	2	23.5	
		1	24	22.56	22.56	22.56	2	23.5	
	10M	QPSK	1	0	23.87	23.90	23.81	0	25.5
			1	12	24.22	24.17	24.13	0	25.5
			1	24	23.80	23.70	23.69	0	25.5
			12	0	23.07	23.06	23.15	1	24.5
			12	6	23.05	22.96	22.91	1	24.5
10M	16QAM	12	13	23.02	23.03	22.93	1	24.5	
		25	0	23.06	23.02	23.10	1	24.5	
		1	0	22.91	22.91	22.91	1	24.5	
		1	12	23.15	23.05	23.17	1	24.5	
		1	24	23.13	23.07	23.11	1	24.5	
10M	64QAM	12	0	22.05	22.14	22.09	2	23.5	
		12	6	22.16	22.11	22.07	2	23.5	
		12	13	22.02	22.07	22.09	2	23.5	
		25	0	22.17	22.18	22.23	2	23.5	
		1	0	22.20	22.27	22.19	2	23.5	
10M	QPSK	1	0	22.41	22.55	22.52	2	23.5	
		1	24	22.33	22.26	22.24	2	23.5	
		12	0	21.19	21.24	21.16	3	22.5	
		12	6	21.05	21.11	21.01	3	22.5	
		12	13	20.95	21.06	21.01	3	22.5	
10M	16QAM	25	0	21.19	21.08	21.22	3	22.5	
		1	0	21.72	21.77	21.80	2	23	
		1	24	22.18	22.16	22.41	2	23	
		1	49	22.14	22.11	21.81	2	23	
		25	12	21.14	21.00	21.15	3	22	
10M	64QAM	25	25	20.95	21.20	21.06	3	22	
		50	0	20.83	21.02	20.91	3	22	
		1	0	21.69	21.84	21.81	2	23	
		1	24	22.18	22.16	22.41	2	23	
		1	49	22.14	22.11	21.81	2	23	

LTE Band 26									
BW	Modulation	RB Size Channel	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
			26765	26865	26965				
		Channel Frequency (MHz)	26765	26865	26965				
15M	QPSK	1	0	24.06	24.00	23.99	0	25.5	
		1	37	24.18	24.14	24.02	0	25.5	
		1	74	24.01	23.96	23.75	0	25.5	
		36	0	23.01	22.96	22.98	1	24.5	
		36	19	23.14	23.08	22.96	1	24.5	
	16QAM	36	39	23.12	22.99	22.94	1	24.5	
		75	0	22.92	23.07	23.00	1	24.5	
		1	0	23.08	23.04	22.92	1	24.5	
		1	37	23.21	23.10	23.05	1	24.5	
		1	74	23.08	23.06	23.01	1	24.5	
	64QAM	36	0	22.02	22.03	21.86	2	23.5	
		36	19	22.08	22.17	22.00	2	23.5	
		36	39	22.18	22.21	21.86	2	23.5	
		75	0	22.15	22.03	21.89	2	23.5	
		1	0	22.34	22.40	22.21	2	23.5	
	15M	QPSK	1	0	23.96	23.90	23.81	0	25.5
			1	24	24.05	24.00	23.95	0	25.5
			1	49	23.89	23.82	23.61	0	25.5
			25	0	23.00	22.95	22.88	1	24.5
			25	12	23.05	22.93	22.85	1	24.5
16QAM		25	25	23.10	22.95	22.86	1	24.5	
		50	0	22.87	23.06	22.92	1	24.5	
		1	0	23.01	23.01	22.78	1	24.5	
		1	24	23.06	23.08	22.96	1	24.5	
		1	49	23.05	23.02	22.85	1	24.5	
64QAM		25	0	21.98	21.97	21.75	2	23.5	
		25	12	21.95	22.15	21.88	2	23.5	
		25	25	22.04	21.87	21.74	2	23.5	
		50	0	22.09	21.95	21.82	2	23.5	
		1	0	22.27	22.36	22.20	2	23.5	
15M		QPSK	1	0	23.96	24.23	24.23	0	25.5
			1	24	23.81	23.81	23.81	0	25.5
			25	0	23.44	23.44	23.44	1	24.5
			25	12	23.08	23.08	23.08	1	

LTE Band 38										
BW	Modulation	RB Size	RB Offset	Low	Mid	High	SPP	Max. Ture-up (dB)	Max. Ture-up (dB)	
				Channel Frequency (MHz)	3780	3800				3815
20M	QPSK	100AM	1	0	24.25	24.37	24.22	0	25.5	
			1	50	24.74	24.49	24.53	0	25.5	
			1	99	24.32	24.25	24.18	0	25.5	
			50	0	23.39	23.31	23.24	1	24.5	
			50	25	23.54	23.50	23.38	1	24.5	
			50	50	23.33	23.29	23.22	1	24.5	
			100	0	23.40	23.39	23.37	1	24.5	
			1	0	22.32	23.03	22.99	1	24.5	
			1	50	22.30	22.24	22.21	1	24.5	
			1	99	22.87	22.91	22.89	1	24.5	
20M	16QAM	100AM	50	0	22.31	22.61	22.48	2	23.5	
			50	25	22.47	22.62	22.45	2	23.5	
			50	50	22.34	22.32	22.29	2	23.5	
			100	0	22.98	22.40	22.48	2	23.5	
			1	0	22.14	22.11	21.90	2	23.5	
			1	50	22.28	22.32	22.29	2	23.5	
			1	99	21.98	22.04	21.88	2	23.5	
			50	0	21.49	21.38	21.34	3	22.5	
			50	25	21.45	21.43	21.45	3	22.5	
			50	50	21.44	21.36	21.42	3	22.5	
20M	64QAM	100AM	100	0	21.49	21.36	21.37	3	22.5	
			Channel	3780	3800	3815	SPP	Max.		
			Frequency (MHz)	297.5	298	292.5	MPP	Max.		
			1	0	24.24	24.22	24.20	0	25.5	
			1	37	24.67	24.46	24.41	0	25.5	
			1	74	24.16	24.22	24.12	0	25.5	
			36	0	23.35	23.22	23.13	1	24.5	
			36	19	23.51	23.42	23.37	1	24.5	
			36	39	23.25	23.14	23.17	1	24.5	
			75	0	23.25	23.45	23.34	1	24.5	
15M	16QAM	100AM	1	0	23.21	22.88	22.93	1	24.5	
			1	37	23.17	23.21	23.23	1	24.5	
			1	74	22.73	22.89	22.79	1	24.5	
			36	0	22.18	22.42	22.44	2	23.5	
			36	19	22.35	22.42	22.37	2	23.5	
			36	39	22.21	22.26	22.23	2	23.5	
			75	0	22.48	22.25	22.38	2	23.5	
			1	0	22.08	22.07	21.88	2	23.5	
			1	37	22.05	22.20	22.15	2	23.5	
			1	74	21.91	21.91	21.85	2	23.5	
15M	64QAM	100AM	36	0	21.42	21.36	21.28	3	22.5	
			36	19	21.39	21.41	21.38	3	22.5	
			36	39	21.36	21.26	21.33	3	22.5	
			75	0	21.26	21.21	21.31	3	22.5	
			Channel	3780	3800	3815	SPP	Max.		
			Frequency (MHz)	297.5	298	292.5	MPP	Max.		
			1	0	24.20	24.35	24.19	0	25.5	
			1	12	24.68	24.34	24.38	0	25.5	
			1	24	24.24	24.20	24.07	0	25.5	
			12	0	23.33	23.26	23.41	1	24.5	
12	6	23.39	23.41	23.26	1	24.5				
12	13	23.28	23.15	23.17	1	24.5				
25	0	23.35	23.47	23.38	1	24.5				
10M	16QAM	100AM	1	0	23.14	22.88	22.88	1	24.5	
			1	12	23.20	23.19	23.11	1	24.5	
			1	24	22.83	22.76	22.75	1	24.5	
			12	0	22.25	22.38	22.44	2	23.5	
			12	6	22.40	22.41	22.42	2	23.5	
			12	13	22.31	22.24	22.35	2	23.5	
			25	0	22.48	22.37	22.39	2	23.5	
			1	0	22.07	22.05	21.87	2	23.5	
			1	12	22.26	22.21	22.20	2	23.5	
			1	24	21.93	21.95	21.83	2	23.5	
10M	64QAM	100AM	12	0	21.34	21.29	21.20	3	22.5	
			12	6	21.43	21.32	21.43	3	22.5	
			12	13	21.33	21.26	21.37	3	22.5	
			25	0	21.32	21.33	21.33	3	22.5	
			Channel	3780	3800	3815	SPP	Max.		
			Frequency (MHz)	297.5	298	292.5	MPP	Max.		
			1	0	24.09	24.00	23.87	0	25	
			1	12	24.36	24.07	24.01	0	25	
			1	24	23.89	23.98	23.84	0	25	
			12	0	23.10	23.14	23.01	0	25	
12	6	23.02	22.94	22.87	0	25				
12	13	23.03	22.92	22.81	0	25				
25	0	23.16	22.87	22.81	0	25				
5M	16QAM	100AM	1	0	22.21	22.62	22.54	1	24	
			1	12	23.02	22.89	22.87	1	24	
			1	24	22.70	22.63	22.53	1	24	
			12	0	22.11	22.10	21.92	1	23	
			12	6	22.11	22.05	21.92	1	23	
			12	13	21.97	21.90	21.71	1	23	
			25	0	22.25	22.24	22.17	1	23	
			1	0	21.72	21.69	21.46	1	23	
			1	12	21.96	21.94	21.84	1	23	
			1	24	21.74	21.67	21.40	1	23	
5M	64QAM	100AM	12	0	21.28	21.17	20.96	0	22	
			12	6	21.20	21.05	21.04	0	22	
			12	13	21.00	20.92	20.89	0	22	
			25	0	21.32	21.12	21.03	0	22	
			Channel	3780	3800	3815	SPP	Max.		
			Frequency (MHz)	297.5	298	292.5	MPP	Max.		
			1	0	24.09	24.00	23.87	0	25	
			1	12	24.36	24.07	24.01	0	25	
			1	24	23.89	23.98	23.84	0	25	
			12	0	23.10	23.14	23.01	0	25	
12	6	23.02	22.94	22.87	0	25				
12	13	23.03	22.92	22.81	0	25				

LTE Band 41 (2486 - 2690MHz)												
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	SPP	Max. Ture-up (dB)		
				Channel Frequency (MHz)	3970	4015	4060	4105			4140	
20M	QPSK	100AM	1	0	24.17	24.01	23.98	23.65	23.71	0	25	
			1	50	24.38	24.19	24.12	23.93	23.95	0	25	
			1	99	24.01	24.03	23.74	23.59	23.60	0	25	
			50	0	23.22	23.21	23.06	22.81	22.95	1	24	
			50	25	23.10	23.07	22.97	22.84	22.95	1	24	
			50	50	23.05	23.07	23.03	22.87	22.73	1	24	
			100	0	23.20	22.97	22.93	22.74	22.78	1	24	
			1	0	22.80	22.64	22.68	22.29	22.45	1	24	
			1	50	22.98	22.94	22.99	22.54	22.69	1	24	
			1	99	22.72	22.68	22.56	22.24	22.48	1	24	
20M	16QAM	100AM	50	0	22.21	22.15	22.07	21.82	21.94	2	23	
			50	25	22.17	22.04	21.99	21.72	21.77	2	23	
			50	50	22.10	22.02	21.83	21.70	21.63	2	23	
			100	0	22.28	22.31	22.20	21.83	22.01	2	23	
			1	0	21.74	21.78	21.60	21.34	21.44	2	23	
			1	50	22.08	21.98	21.92	21.67	21.82	2	23	
			1	99	21.86	21.81	21.49	21.38	21.30	2	23	
			50	0	21.39	21.29	21.06	20.86	20.90	3	22	
			50	25	21.24	21.12	21.15	20.70	20.97	3	22	
			50	50	21.11	21.00	21.02	20.70	21.01	3	22	
20M	64QAM	100AM	100	0	21.35	21.21	21.10	20.84	20.90	3	22	
			Channel	3970	4015	4060	4105	4140	SPP	Max.		
			Frequency (MHz)	265.5	248.5	293	267.8	262.5	MPP	Max.		
			1	0	24.04	23.68	23.94	23.62	23.66	0	25	
			1	37	24.28	24.16	24.07	23.88	23.95	0	25	
			1	74	23.86	24.00	23.92	23.50	23.59	0	25	
			36	0	23.07	23.20	23.09	22.78	22.94	1	24	
			36	19	22.98	22.96	22.82	22.82	22.78	1	24	
			36	39	22.97	23.05	22.79	22.56	22.66	1	24	
			75	0	23.16	22.91	22.82	22.64	22.69	1	24	
15M	16QAM	100AM	1	0	22.73	22.63	22.67	22.28	22.41	1	24	
			1	37	22.85	22.85	22.97	22.41	22.59	1	24	
			1	74	22.61	22.53	22.42	22.19	22.41	1	24	
			36	0	22.18	22.12	22.06	21.78	21.86	2	23	
			36	19	22.02	21.98	21.92	21.62	21.68	2	23	
			36	39	21.96	21.88	21.74	21.57	21.71	2	23	
			75	0	22.27	22.30	22.19	21.77	21.97	2	23	
			1	0	21.70	21.75	21.49	21.23	21.41	2	23	
			1	37	22.00	21.96	21.82	21.55	21.75	2	23	
			1	74	21.75	21.50	21.39	21.26	21.28	2	23	
15M	64QAM	100AM	36	0	21.38	21.17	20.91	20.58	20.80	3	22	
			36	19	21.12	20.99	21.13	20.57	20.85	3	22	
			36	39	20.97	20.89	20.92	20.52	20.83			

## WWAN DSI-1 Power Ant2(DIV)

Band	GSM850				GSM1900				
	Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8		
GSM	30.02	30.03	30.11	31.50	25.10	25.28	25.20	26.00	
GPRS 1Tx Slot	30.00	30.02	30.10	31.50	25.08	25.26	25.18	26.00	
GPRS 2Tx Slot	26.55	26.55	26.63	28.00	21.29	21.51	21.47	22.20	
GPRS 3Tx Slot	25.14	25.13	25.22	26.50	19.52	19.78	19.75	20.50	
GPRS 4Tx Slot	24.18	24.18	24.26	25.50	18.56	18.81	18.78	19.50	
EDGE 1Tx Slot	26.90	26.72	26.77	28.00	24.44	24.35	24.50	26.00	
EDGE 2Tx Slot	23.96	23.79	23.93	25.00	19.87	19.56	19.89	21.50	
EDGE 3Tx Slot	22.28	22.10	22.16	23.20	18.12	18.04	18.29	19.70	
EDGE 4Tx Slot	20.88	20.53	20.64	22.00	17.47	17.40	17.59	19.00	

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
	Channel	128	189		251	512	661	
GSM	21.02	21.03	21.11	22.50	16.10	16.28	16.20	17.00
GPRS 1Tx Slot	21.00	21.02	21.10	22.50	16.08	16.26	16.18	17.00
GPRS 2Tx Slot	20.55	20.55	20.63	22.00	15.29	15.51	15.47	16.20
GPRS 3Tx Slot	20.88	20.87	20.96	22.24	15.26	15.52	15.49	16.24
GPRS 4Tx Slot	21.18	21.18	21.26	22.50	15.56	15.81	15.78	16.50
EDGE 1Tx Slot	17.90	17.72	17.77	19.00	15.44	15.35	15.50	17.00
EDGE 2Tx Slot	17.96	17.79	17.93	19.00	13.87	13.56	13.89	15.50
EDGE 3Tx Slot	18.02	17.84	17.90	18.94	13.86	13.78	14.03	15.44
EDGE 4Tx Slot	17.88	17.53	17.64	19.00	14.47	14.40	14.59	16.00

Band	WCDMA II			WCDMA II Max. Tune-up Power (dBm)	WCDMA IV			WCDMA IV Max. Tune-up Power (dBm)	WCDMA V			WCDMA V Max. Tune-up Power (dBm)
	Tx Channel	9262	9400		9538	1312	1413		1513	4132	4182	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	18.11	17.97	18.03	19.00	19.57	19.52	19.49	20.50	21.66	21.60	21.63	23.00
HSDPA Subtest-1	17.10	17.02	17.09	17.50	18.68	18.64	18.61	19.00	20.79	20.75	20.74	21.50
HSDPA Subtest-2	17.08	16.96	17.06	17.50	18.74	18.68	18.61	19.00	20.86	20.73	20.81	21.50
HSDPA Subtest-3	16.63	16.53	16.57	17.50	18.23	18.20	18.12	19.00	20.36	20.28	20.25	21.50
HSDPA Subtest-4	16.62	16.50	16.56	17.50	18.20	18.15	18.11	19.00	20.28	20.25	20.31	21.50
DC-HSDPA Subtest-1	17.07	16.99	17.05	17.50	18.75	18.62	18.67	19.00	20.83	20.80	20.82	21.50
DC-HSDPA Subtest-2	17.13	17.02	17.05	17.50	18.66	18.67	18.63	19.00	20.81	20.73	20.73	21.50
DC-HSDPA Subtest-3	16.57	16.53	16.57	17.50	18.17	18.21	18.10	19.00	20.32	20.20	20.28	21.50
DC-HSDPA Subtest-4	16.67	16.55	16.62	17.50	18.23	18.20	18.13	19.00	20.35	20.26	20.23	21.50
HSUPA Subtest-1	15.34	15.26	15.28	16.50	16.97	16.89	16.84	18.00	18.95	18.99	19.02	20.50
HSUPA Subtest-2	14.97	14.86	14.93	16.50	16.59	16.60	16.57	18.00	18.74	18.62	18.65	20.50
HSUPA Subtest-3	15.89	15.77	15.87	16.50	17.51	17.47	17.44	18.00	19.64	19.59	19.54	20.50
HSUPA Subtest-4	14.64	14.56	14.61	16.50	16.17	16.16	16.09	18.00	18.63	18.59	18.62	20.50
HSUPA Subtest-5	15.88	15.86	15.92	16.50	17.51	17.46	17.41	18.00	19.64	19.56	19.62	20.50
HSPA+ Subtest-1	15.22	15.09	15.17	16.50	16.79	16.75	16.75	18.00	18.87	18.81	18.93	20.50

		LTE Band 2					
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-upt. (dBm)
		Channel Frequency (MHz)	1870	1880	1910	1920	
20M	QPSK	1	0	18.20	18.11	18.02	19.5
		1	50	18.44	18.29	18.25	19.5
		1	99	17.99	17.90	17.78	19.5
		50	0	18.22	18.14	18.05	19.5
		50	25	18.08	18.05	17.90	19.5
		50	50	18.20	18.13	17.90	19.5
	16QAM	1	0	18.15	18.13	17.92	19.5
		1	50	18.23	18.32	18.11	19.5
		1	99	18.01	17.72	17.71	19.5
		50	0	18.07	18.04	17.84	19.5
		50	25	18.15	18.01	17.90	19.5
		50	50	18.13	18.11	18.05	19.5
64QAM	100	0	18.10	18.06	17.97	19.5	
	1	0	17.95	17.84	17.91	19.5	
	1	50	18.16	18.19	17.98	19.5	
	1	99	17.77	17.62	17.56	19.5	
	50	0	18.04	18.02	17.87	19.5	
	50	25	18.08	18.05	17.81	19.5	
20M	QPSK	1	0	18.20	18.11	18.02	19.5
		1	37	18.24	18.22	18.06	19.5
		1	74	17.96	17.84	17.64	19.5
		36	0	18.11	18.06	18.07	19.5
		36	19	17.98	18.04	17.86	19.5
		36	39	18.07	18.09	17.78	19.5
	16QAM	75	0	18.07	18.05	17.84	19.5
		1	0	17.88	17.87	17.81	19.5
		1	37	18.22	18.27	18.06	19.5
		1	74	17.70	17.70	17.65	19.5
		36	0	18.05	17.91	17.82	19.5
		36	19	18.08	17.99	17.84	19.5
64QAM	36	39	17.98	17.96	18.01	19.5	
	75	0	18.09	17.99	17.93	19.5	
	1	0	17.83	17.73	17.85	19.5	
	1	37	18.05	18.07	17.88	19.5	
	1	74	17.84	17.51	17.49	19.5	
	36	0	17.99	17.96	17.77	19.5	
20M	QPSK	1	0	18.14	17.98	17.99	19.5
		1	24	18.20	18.26	18.14	19.5
		1	49	17.89	17.77	17.74	19.5
		25	0	18.19	18.05	17.99	19.5
		25	12	18.01	18.05	17.84	19.5
		25	25	18.08	18.11	17.76	19.5
	16QAM	50	0	18.00	18.07	17.81	19.5
		1	0	17.98	18.00	17.85	19.5
		1	24	18.18	18.18	17.99	19.5
		1	49	17.86	17.68	17.67	19.5
		25	0	17.93	17.89	17.63	19.5
		25	12	18.11	17.87	17.88	19.5
64QAM	25	25	18.01	18.03	17.91	19.5	
	50	0	18.03	18.05	17.85	19.5	
	1	0	17.71	17.71	17.81	19.5	
	1	24	18.06	18.05	17.68	19.5	
	1	49	17.76	17.49	17.46	19.5	
	25	0	17.96	17.99	17.84	19.5	
20M	QPSK	1	0	18.14	18.01	17.97	19.5
		1	12	18.20	18.24	18.15	19.5
		1	24	17.87	17.86	17.75	19.5
		12	0	18.17	18.09	18.03	19.5
		12	6	18.02	18.05	17.82	19.5
		12	13	18.13	18.04	17.85	19.5
	16QAM	25	0	18.02	18.11	17.89	19.5
		1	0	18.09	17.89	17.82	19.5
		1	12	18.10	18.26	17.99	19.5
		1	24	17.99	17.68	17.61	19.5
		12	0	17.93	17.89	17.64	19.5
		12	6	18.11	17.96	17.81	19.5
64QAM	12	13	18.07	18.02	17.93	19.5	
	25	0	17.95	17.98	17.89	19.5	
	1	0	17.84	17.79	17.77	19.5	
	1	12	18.05	18.14	17.68	19.5	
	1	24	17.68	17.60	17.47	19.5	
	12	0	17.95	17.89	17.76	19.5	
20M	QPSK	1	0	18.14	18.02	17.97	19.5
		1	7	18.20	18.26	18.19	19.5
		1	14	17.83	17.88	17.69	19.5
		8	0	18.13	18.05	17.93	19.5
		8	3	18.06	18.05	17.88	19.5
		8	7	18.06	18.12	17.88	19.5
	16QAM	15	0	17.99	18.12	17.77	19.5
		1	0	17.99	17.87	17.79	19.5
		1	7	18.17	18.30	18.04	19.5
		1	14	17.90	17.73	17.64	19.5
		8	0	17.83	17.89	17.69	19.5
		8	3	18.07	17.99	17.77	19.5
64QAM	8	7	18.00	18.05	17.97	19.5	
	15	0	18.02	17.95	17.88	19.5	
	1	0	17.84	17.71	17.88	19.5	
	1	7	18.08	18.07	17.67	19.5	
	1	14	17.69	17.51	17.53	19.5	
	8	0	17.94	17.97	17.72	19.5	
20M	QPSK	1	0	18.28	18.10	17.85	19.5
		1	2	18.43	18.21	18.14	19.5
		1	5	17.88	17.84	17.52	19.5
		3	0	18.18	18.10	18.02	19.5
		3	1	18.00	18.07	17.76	19.5
		3	3	18.18	18.05	17.86	19.5
	16QAM	6	0	18.01	18.11	17.87	19.5
		1	0	18.07	17.93	17.87	19.5
		1	2	18.19	18.21	18.10	19.5
		1	5	17.95	17.71	17.56	19.5
		3	0	18.02	17.93	17.92	19.5
		3	1	18.09	17.84	17.67	19.5
64QAM	3	3	18.03	18.04	17.96	19.5	
	6	0	18.02	17.92	17.88	19.5	
	1	0	17.87	17.69	17.89	19.5	
	1	2	18.06	18.04	17.94	19.5	
	1	5	17.62	17.53	17.42	19.5	
	3	0	18.01	17.88	17.77	19.5	
20M	QPSK	1	0	18.04	18.03	17.67	19.5
		3	3	17.95	17.91	17.90	19.5
		6	0	18.03	17.99	17.78	19.5
		1	0	18.28	18.10	17.85	19.5
		1	2	18.43	18.21	18.14	19.5
		1	5	17.88	17.84	17.52	19.5
	16QAM	3	0	18.18	18.10	18.02	19.5
		3	1	18.00	18.07	17.76	19.5
		3	3	18.18	18.05	17.86	19.5
		6	0	18.01	18.11	17.87	19.5
		1	0	18.07	17.93	17.87	19.5
		1	2	18.19	18.21	18.10	19.5
64QAM	1	5	17.95	17.71	17.56	19.5	
	3	0	18.02	17.93	17.92	19.5	
	3	1	18.09	17.84	17.67	19.5	
	3	3	18.03	18.04	17.96	19.5	
	6	0	18.02	17.92	17.88	19.5	
	1	0	17.87	17.69	17.89	19.5	
20M	QPSK	1	0	18.28	18.10	17.85	19.5
		1	2	18.43	18.21	18.14	19.5
		1	5	17.88	17.84	17.52	19.5
		3	0	18.18	18.10	18.02	19.5
		3	1	18.00	18.07	17.76	19.5
		3	3	18.18	18.05	17.86	19.5
	16QAM	6	0	18.01	18.11	17.87	19.5
		1	0	18.07	17.93	17.87	19.5
		1	2	18.19	18.21	18.10	19.5
		1	5	17.95	17.71	17.56	19.5
		3	0	18.02	17.93	17.92	19.5
		3	1	18.09	17.84	17.67	19.5
64QAM	3	3	18.03	18.04	17.96	19.5	
	6	0	18.02	17.92	17.88	19.5	
	1	0	17.87	17.69	17.89	19.5	
	1	2	18.06	18.04	17.94	19.5	
	1	5	17.62	17.53	17.42	19.5	
	3	0	18.01	17.88	17.77	19.5	

		LTE Band 4					
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Time-upt. (dBm)
		Channel Frequency (MHz)	2050	2075	2090	2125	
20M	QPSK	1	0	18.20	18.14	18.07	20.5
		1	50	18.46	18.04	18.12	20.5
		1	99	18.59	18.56	18.51	20.5
		50	0	18.85	18.84	18.91	20.5
		50	25	19.01	18.81	18.87	20.5
		50	50	18.93	18.84	18.93	20.5
	16QAM	100	0	18.98	18.80	18.95	20.5
		1	0	18.63	18.65	18.71	20.5
		1	50	18.97	19.10	18.99	20.5
		1	99	18.56	18.66	18.65	20.5
		50	0	18.76	18.89	18.80	20.5
		50	25	18.82	18.94	18.87	20.5
64QAM	50	50	18.83	18.78	18.90	20.5	
	100	0	18.94	18.86	18.91	20.5	
	1	0	18.63	18.90	18.93	20.5	
	1	50	18.73	18.90	18.93	20.5	
	1	99	18.56	18.55	18.52	20.5	
	50	0	18.84	18.76	18.95	20.5	
20M	QPSK	1	0	18.28	18.23	18.20	20.5
		1	37	19.11	18.95	18.98	20.5
		1	74	18.90	18.48	18.37	20.5
		36	0	18.81	18.76	18.80	20.5
		36	19	18.88	18.66	18.78	20.5
		36	39	18.81	18.80	18.86	20.5
	16QAM	75	0	18.86	18.77	18.92	20.5
		1	0	18.56	18.63	18.67	20.5
		1	37	18.85	19.09	18.91	20.5
		1	74	18.65	18.61	18.67	20.5
		36	0	18.86	18.84	18.77	20.5
		36	19	18.72	18.90	18.84	20.5
64QAM	36	39	18.73	18.76	18.81	20.5	
	75	0	18.93	18.77	18.78	20.5	
	1	0	18.48	18.46	18.45	20.5	



LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel	Frequency (MHz)	2980	2110	2150	
20M	QPSK	1	0	14.27	14.33	14.33	15.5
		1	50	14.63	14.59	14.71	15.5
		1	99	14.62	14.62	14.63	15.5
		50	0	14.19	14.20	14.17	15.5
		50	25	14.29	14.36	14.46	15.5
	16QAM	50	50	14.44	14.63	14.60	15.5
		100	0	14.38	14.44	14.40	15.5
		1	0	14.29	14.31	14.32	15.5
		1	50	14.56	14.89	14.58	15.5
		1	99	14.23	14.41	14.44	15.5
	64QAM	50	0	14.14	14.24	14.16	15.5
		50	25	14.31	14.32	14.45	15.5
		50	50	14.54	14.47	14.47	15.5
		100	0	14.35	14.41	14.47	15.5
		1	0	14.18	14.12	14.15	15.5
	QPSK	1	50	14.33	14.51	14.49	15.5
		1	99	14.08	14.14	14.17	15.5
		50	0	14.19	14.23	14.32	15.5
		50	25	14.16	14.33	14.41	15.5
		50	50	14.50	14.45	14.46	15.5
16QAM	100	0	14.32	14.40	14.44	15.5	
	QPSK	Channel	2982.5	2110	2175	Max. Tune-up (dBm)	
		Frequency (MHz)	2987.5	2335	2362.5	15.5	
		1	0	14.16	14.31	14.27	15.5
		1	37	14.80	14.58	14.64	15.5
1		74	14.51	14.52	14.53	15.5	
16QAM	36	0	14.05	14.09	14.16	15.5	
	36	19	14.28	14.29	14.42	15.5	
	36	39	14.31	14.53	14.55	15.5	
	75	0	14.23	14.34	14.37	15.5	
	1	0	14.24	14.20	14.22	15.5	
64QAM	1	37	14.55	14.54	14.57	15.5	
	1	74	14.09	14.31	14.42	15.5	
	36	0	14.08	14.23	14.04	15.5	
	36	19	14.26	14.31	14.38	15.5	
	36	39	14.48	14.46	14.46	15.5	
QPSK	75	0	14.29	14.40	14.32	15.5	
	1	0	14.04	14.10	14.03	15.5	
	1	37	14.21	14.39	14.44	15.5	
	1	74	14.07	14.02	14.02	15.5	
	36	0	14.18	14.09	14.15	15.5	
16QAM	36	19	14.03	14.18	14.33	15.5	
	36	39	14.37	14.41	14.31	15.5	
	75	0	14.17	14.37	14.32	15.5	
	Channel	2980	2100	2140	Max. Tune-up (dBm)		
	Frequency (MHz)	2995	2335	2365	15.5		
QPSK	1	0	14.13	14.19	14.18	15.5	
	1	24	14.56	14.53	14.67	15.5	
	1	49	14.56	14.49	14.56	15.5	
	25	0	14.08	14.10	14.03	15.5	
	25	12	14.21	14.31	14.36	15.5	
16QAM	25	25	14.42	14.49	14.53	15.5	
	50	0	14.36	14.43	14.33	15.5	
	1	0	14.24	14.20	14.19	15.5	
	1	24	14.44	14.68	14.55	15.5	
	1	49	14.14	14.27	14.41	15.5	
64QAM	25	0	14.01	14.17	14.13	15.5	
	25	12	14.19	14.18	14.32	15.5	
	25	25	14.40	14.45	14.39	15.5	
	50	0	14.32	14.35	14.38	15.5	
	1	0	14.09	14.07	14.06	15.5	
QPSK	1	24	14.19	14.38	14.40	15.5	
	1	49	14.06	14.09	14.03	15.5	
	25	0	14.04	14.21	14.30	15.5	
	25	12	14.08	14.27	14.37	15.5	
	25	25	14.35	14.32	14.36	15.5	
16QAM	50	0	14.29	14.39	14.31	15.5	
	Channel	2977.5	2100	2142.5	Max. Tune-up (dBm)		
	Frequency (MHz)	2992.5	2335	2367.5	15.5		
	1	0	14.19	14.23	14.20	15.5	
	1	12	14.56	14.55	14.56	15.5	
64QAM	1	24	14.56	14.49	14.62	15.5	
	12	0	14.12	14.19	14.06	15.5	
	12	6	14.27	14.32	14.36	15.5	
	12	13	14.31	14.60	14.50	15.5	
	25	0	14.36	14.37	14.35	15.5	
QPSK	1	0	14.22	14.19	14.27	15.5	
	1	12	14.45	14.60	14.54	15.5	
	1	24	14.16	14.28	14.43	15.5	
	12	0	14.01	14.10	14.15	15.5	
	12	6	14.23	14.25	14.39	15.5	
16QAM	12	13	14.39	14.32	14.39	15.5	
	25	0	14.33	14.38	14.39	15.5	
	1	0	14.14	14.01	14.01	15.5	
	1	12	14.29	14.41	14.42	15.5	
	1	24	14.04	14.03	14.15	15.5	
64QAM	12	0	14.18	14.15	14.31	15.5	
	12	6	14.10	14.30	14.37	15.5	
	12	13	14.39	14.35	14.38	15.5	
	25	0	14.26	14.33	14.29	15.5	

LTE Band 13						
BW	Modulation	RB Size	RB Offset	Mid	High	Max. Tune-up (dBm)
		Channel	Frequency (MHz)	2320	2320	
10M	QPSK	1	0	23.21	23.21	24.5
		1	24	23.47	23.47	24.5
		1	49	23.30	23.30	24.5
		25	0	23.42	23.42	24.5
		25	12	23.36	23.36	24.5
	16QAM	25	25	23.32	23.32	24.5
		50	0	23.45	23.45	24.5
		1	0	23.09	23.09	24.5
		1	24	23.14	23.14	24.5
		1	49	23.00	23.00	24.5
	64QAM	25	0	21.98	21.98	23.5
		25	12	21.98	21.98	23.5
		25	25	21.89	21.89	23.5
		50	0	21.95	21.95	23.5
		1	0	22.27	22.27	23.5
	QPSK	1	24	22.36	22.36	23.5
		1	49	22.24	22.24	23.5
		25	0	21.15	21.15	22.5
		25	12	21.14	21.14	22.5
		25	25	21.12	21.12	22.5
16QAM	50	0	21.10	21.10	22.5	
	Channel	2320.5	2320	2326	Max. Tune-up (dBm)	
	Frequency (MHz)	2313	2319	2310	24.5	
	1	12	23.35	23.34	23.42	24.5
	1	24	23.27	23.28	23.19	24.5
64QAM	12	0	23.10	22.97	22.97	24.5
	12	6	22.95	22.93	22.99	24.5
	12	13	23.02	23.00	23.01	24.5
	25	0	22.95	22.93	22.90	24.5
	1	0	22.98	22.98	23.07	24.5
QPSK	1	12	23.05	23.01	23.12	24.5
	1	24	22.89	22.93	22.94	24.5
	12	0	21.95	21.90	21.91	23.5
	12	6	21.81	21.95	21.86	23.5
	12	13	21.81	21.77	21.79	23.5
16QAM	25	0	21.84	21.88	21.86	23.5
	1	0	22.24	22.24	22.21	23.5
	1	12	22.21	22.28	22.33	23.5
	1	24	22.19	22.12	22.14	23.5
	12	0	21.14	21.10	21.12	22.5
64QAM	12	6	21.08	20.99	21.13	22.5
	12	13	21.07	21.09	20.98	22.5
	25	0	21.00	21.06	20.96	22.5

LTE Band 26							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel	Frequency (MHz)	2676.5	2686.5	2696.5	
15M	QPSK	1	0	22.35	22.19	22.21	23.5
		1	37	22.38	22.35	22.26	23.5
		1	74	22.17	22.15	22.01	23.5
		36	0	21.88	21.83	21.83	23.5
		36	19	22.10	22.02	21.91	23.5
	16QAM	36	39	21.98	21.94	21.81	23.5
		75	0	21.98	21.93	21.94	23.5
		1	0	21.99	21.92	21.78	23.5
		1	37	22.08	22.08	21.92	23.5
		1	74	21.96	21.98	21.95	23.5
	64QAM	36	0	21.95	21.90	21.73	23.5
		36	19	21.94	22.02	21.88	23.5
		36	39	22.05	22.00	21.84	23.5
		75	0	22.09	21.91	21.85	23.5
		1	0	22.04	22.15	21.99	23.5
	QPSK	1	37	22.34	22.18	22.29	23.5
		1	74	22.16	22.10	22.11	23.5
		36	0	20.93	20.83	20.93	22.5
		36	19	21.09	20.96	21.07	22.5
		36	39	21.11	21.03	20.76	22.5
16QAM	75	0	21.01	20.90	20.85	22.5	
	Channel	2674	2686	2696	Max. Tune-up (dBm)		
	Frequency (MHz)	819	831.5	844	23.5		
	1	0	22.32	22.16	22.09	23.5	
	1	24	22.24	22.34	22.11	23.5	
64QAM	1	49	22.06	22.07	21.99	23.5	
	25	0	21.83	21.77	21.70	23.5	
	25	12	21.99	22.00	21.89	23.5	
	25	25	21.86	21.88	21.79	23.5	
	50	0	21.83	21.96	21.86	23.5	
QPSK	1	0	21.98	21.85	21.65	23.5	
	1	24	21.93	22.03	21.79	23.5	
	1	49	21.92	21.94	21.86	23.5	
	25	0	21.90	21.79	21.85	23.5	
	25	12	21.83	21.98	21.73	23.5	
16QAM	25	25	22.01	21.97	21.71	23.5	
	50	0	21.97	21.87	21.71	23.5	
	1	0	21.99	22.11	21.79	23.5	
	1	24	22.27	22.17	22.21	23.5	
	1	49	22.09	21.97	22.09	23.5	
64QAM	25	0	20.90	20.75	20.82	22.5	
	25	12	21.01	20.92	21.04	22.5	
	25	25	20.99	20.94	20.74	22.5	
	50	0	20.90	20.75	20.78	22.5	
	Channel	2671.5	2686.5	2701.5			

LTE Band 38								
BW	Modulation	Channel	Low	Mid	High	Max. Time-up (dBm)		
		RB Size	RB Offset	3780	3800		3815	
20M	QPSK	3780	2888	2893	2898	18		
		1	0	16.75	16.75	16.73	18	
		1	50	17.14	17.03	16.86	18	
		1	99	16.59	16.58	16.65	18	
		50	0	17.02	16.89	16.90	18	
	16QAM	50	25	16.93	16.84	16.83	18	
		50	50	16.95	16.82	16.81	18	
		50	50	16.95	16.80	16.78	18	
		50	50	16.95	16.75	16.73	18	
		100	0	17.05	17.03	16.80	18	
64QAM	100	0	16.47	16.29	16.27	18		
	1	50	16.79	16.67	16.70	18		
	1	99	16.37	16.26	16.25	18		
	50	0	17.10	16.98	16.92	18		
	50	25	16.93	16.77	16.83	18		
	50	50	17.06	16.88	16.93	18		
	100	0	17.01	17.03	16.75	18		
	10M	QPSK	3782	2890	2895	2898	18	
			1	0	16.80	16.80	16.58	18
			1	37	16.75	16.84	16.72	18
1			74	16.55	16.48	16.58	18	
36			0	16.80	16.84	16.76	18	
16QAM		36	19	17.00	16.71	16.71	18	
		36	39	16.82	16.79	16.73	18	
		75	0	16.86	16.79	16.63	18	
		1	0	16.27	16.35	16.28	18	
		1	37	16.81	16.66	16.71	18	
64QAM	36	19	16.46	16.23	16.19	18		
	36	0	16.70	16.71	16.80	18		
	36	19	16.87	16.71	16.74	18		
	36	39	16.88	16.74	16.64	18		
	75	0	16.94	17.01	16.79	18		
	1	0	16.53	16.22	16.24	18		
	1	37	16.77	16.65	16.57	18		
	1	74	16.23	16.21	16.20	18		
	36	19	16.90	16.85	16.77	18		
	36	39	16.93	16.77	16.85	18		
75	0	17.00	16.91	16.61	18			
5M	QPSK	3780	2890	2895	2898	18		
		1	0	16.79	16.66	16.66	18	
		1	24	16.75	16.80	16.75	18	
		1	49	16.51	16.55	16.54	18	
		25	0	16.79	16.86	16.88	18	
	16QAM	25	12	16.88	16.70	16.68	18	
		25	25	16.88	16.79	16.74	18	
		50	0	16.85	16.74	16.66	18	
		1	0	16.33	16.29	16.34	18	
		1	24	16.80	16.58	16.60	18	
64QAM	1	49	16.45	16.33	16.12	18		
	25	0	16.70	16.68	16.78	18		
	25	12	16.85	16.68	16.70	18		
	25	25	16.83	16.71	16.68	18		
	50	0	16.98	16.97	16.69	18		
	1	0	16.36	16.19	16.12	18		
	1	24	16.74	16.58	16.56	18		
	1	49	16.22	16.20	16.20	18		
	25	0	17.09	16.97	16.77	18		
	25	12	16.88	16.89	16.90	18		
25	25	17.00	16.87	16.79	18			
50	0	16.97	16.79	16.68	18			
20M	QPSK	3778	2890	2895	2898	18		
		1	0	16.81	16.62	16.63	18	
		1	12	17.01	16.92	16.73	18	
		1	24	16.96	16.47	16.54	18	
		12	0	16.80	16.76	16.79	18	
	16QAM	12	6	16.93	16.73	16.73	18	
		12	13	16.83	16.76	16.80	18	
		25	0	16.84	16.67	16.68	18	
		1	0	16.30	16.35	16.27	18	
		1	12	16.71	16.54	16.64	18	
64QAM	1	24	16.48	16.24	16.14	18		
	12	0	16.76	16.68	16.76	18		
	12	6	16.86	16.68	16.69	18		
	12	13	16.89	16.73	16.65	18		
	25	0	17.03	16.92	16.77	18		
	1	0	16.36	16.27	16.15	18		
	1	12	16.68	16.65	16.66	18		
	1	24	16.24	16.16	16.14	18		
	12	0	16.96	16.84	16.85	18		
	12	6	16.81	16.99	16.82	18		
12	13	17.00	16.83	16.83	18			
25	0	16.86	16.79	16.61	18			

LTE Band 41 (2496 - 2690MHz)								
BW	Modulation	Channel	Low	Mid	High	Max. Time-up (dBm)		
		RB Size	RB Offset	2496	2498		2499	
20M	QPSK	2496	2584.5	2589	2593.5	18		
		1	0	17.01	16.89	16.81	18	
		1	50	17.12	17.01	17.07	18	
		1	99	16.80	16.68	16.48	18	
		50	0	17.08	16.88	17.04	18	
	16QAM	50	25	16.93	16.93	16.93	18	
		50	50	17.00	16.85	16.86	18	
		50	50	16.95	16.88	16.87	18	
		50	50	16.94	16.97	16.81	18	
		100	0	17.10	16.97	17.01	18	
64QAM	100	0	16.51	16.49	16.49	18		
	1	50	16.45	16.37	16.43	18		
	1	99	16.62	16.47	16.53	18		
	50	0	17.07	16.98	16.88	18		
	50	25	16.95	16.87	17.05	18		
	50	50	17.04	16.99	17.05	18		
	100	0	17.08	16.98	17.00	18		
	10M	QPSK	2498	2583	2588	2592.5	18	
			1	0	16.99	16.85	16.70	18
			1	37	17.08	16.87	17.06	18
1			74	16.76	16.55	16.75	18	
36			0	17.07	16.77	16.90	18	
16QAM		36	19	16.83	16.90	16.69	18	
		36	39	16.86	16.78	16.86	18	
		75	0	17.00	16.90	16.95	18	
		1	0	16.49	16.24	16.40	18	
		1	37	16.70	16.54	16.66	18	
64QAM	36	0	16.88	16.90	16.83	18		
	36	19	16.86	16.74	17.01	18		
	36	39	16.92	16.93	16.90	18		
	75	0	17.05	16.96	16.88	18		
	1	0	16.53	16.44	16.45	18		
	1	37	16.40	16.31	16.34	18		
	1	74	16.61	16.43	16.41	18		
	36	0	16.97	16.91	16.78	18		
	36	19	16.82	16.82	16.98	18		
	36	39	16.93	16.96	16.87	18		
75	0	17.03	16.90	16.97	18			
5M	QPSK	2498	2583	2588	2592.5	18		
		1	0	16.94	16.88	16.73	18	
		1	24	17.11	16.93	16.92	18	
		1	49	16.56	16.55	16.70	18	
		25	0	17.07	16.82	16.84	18	
	16QAM	25	12	16.80	16.83	16.67	18	
		25	25	16.88	16.75	16.90	18	
		50	0	16.95	16.80	16.84	18	
		1	0	16.53	16.24	16.40	18	
		1	24	16.65	16.61	16.54	18	
64QAM	1	49	16.50	16.35	16.49	18		
	25	0	16.85	16.87	16.81	18		
	25	12	16.92	16.87	16.96	18		
	25	25	16.86	16.84	16.87	18		
	50	0	16.95	16.83	17.00	18		
	1	0	16.48	16.43	16.42	18		
	1	24	16.43	16.23	16.30	18		
	1	49	16.51	16.37	16.45	18		
	25	0	17.04	16.90	16.80	18		
	25	12	16.82	16.93	16.92	18		
25	25	16.99	16.94	16.97	18			
50	0	17.01	16.96	16.85	18			
20M	QPSK	2498	2583	2588	2592.5	18		
		1	0	16.88	16.81	16.66	18	
		1	12	16.98	16.86	16.97	18	
		1	24	16.67	16.66	16.45	18	
		12	0	17.00	16.87	16.93	18	
	16QAM	12	6	16.92	16.86	16.92	18	
		12	13	16.96	16.72	16.81	18	
		25	0	16.96	16.84	16.90	18	
		1	0	16.56	16.26	16.28	18	
		1	12	16.70	16.61	16.63	18	
64QAM	1	24	16.48	16.30	16.40	18		
	12	0	16.94	16.88	16.79	18		
	12	6	16.93	16.75	16.97	18		
	12	13	16.92	16.80	16.80	18		
	25	0	16.97	16.96	16.51	18		
	1	0	16.59	16.37	16.40	18		
	1	12	16.33	16.32	16.33	18		
	1	24	16.55	16.39	16.51	18		
	12	0	17.04	16.86	16.75	18		
	12	6	16.88	16.89	16.94	18		
12	13	17.03	16.95	16.96	18			
25	0	17.03	16.92	16.97	18			

LTE Band 66							
BW	Modulation	Channel	Low	Mid	High	Max. Time-up (dBm)	
		RB Size	RB Offset	13262	13222		13262
20M	QPSK	13262	12726	12726	12726	18	
		1	0	19.15	19.21	19.24	20.5
		1	50	19.19	19.32	19.21	20.5
		1	99	18.80	18.90	18.95	20.5
		50	0	19.08	19.18	19.07	20.5
	16QAM	50	25	19.04	19.20	18.95	20.5
		50	50	18.85	19.20	19.14	20.5
		50	50	18.98	19.11	18.97	20.5
		50	50	18.92	19.07	18.98	20.5
		100	0	19.09	19.14	18.93	20.5
64QAM	100	0	18.85	19.04	18.84	20.5	
	1	50	19.00	19.05	19.18	20.5	
	1	99	18.81	18.78	18.79	20.5	
	50	0	19.12	19.27	19.19	20.5	
	50	25	18.98	19.06	19.11	20.5	
	50	50	18.91				