



TEST REPORT

No.I21N01157-SAR

For

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: CPH2269

With

Hardware Version: 11

Software Version: ColorOS V11.1

FCC ID: R9C-CPH2269

Issued Date: 2021-05-20

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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REPORT HISTORY

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1. Summary of Test Report

1.1. Test Items

Description: Mobile Phone
Model Name: CPH2269
Applicant's name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Manufacturer's Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

ANSI C95.1-1992, IEEE 1528-2013

1.3. Test Result

Pass. Please refer to "13. Summary of Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project Data

Testing Start Date: 2021-04-12

Testing End Date: 2021-05-12

1.6. Signature

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(Reviewed this test report)

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(Approved this test report)



2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Guangdong OPPO Mobile Telecommunications Corp., Ltd. Mobile Phone CPH2269 are as follows:

Table 2.1: Highest Reported SAR for Head (1g)

Exposure Configuration	Technology Band	Highest Reported SAR 1g(W/Kg)	Equipment Class
Head (Separation Distance 0mm)	GSM850	0.72	PCE
	PCS1900	0.78	
	WCDMA Band2	1.09	
	WCDMA Band4	1.09	
	WCDMA Band5	0.75	
	LTE Band 2	1.05	
	LTE Band 4	1.09	
	LTE Band 7	0.99	
	LTE Band 12	0.29	
	LTE Band 26	0.78	
	LTE Band 38	0.95	
	LTE Band 41	0.62	
	LTE Band 66	1.15	
	Bluetooth	0.21	DSS
	WLAN 2.4GHz	0.97	DTS
WLAN 5GHz	0.68	NII	



Table 2.2: Highest Reported SAR for Hotspot (1g)

Exposure Configuration	Technology Band	Highest Reported SAR 1g(W/Kg)	Equipment Class
Hotspot (Separation Distance 10mm)	GSM850	0.57	PCE
	PCS1900	0.97	
	WCDMA Band2	1.18	
	WCDMA Band4	0.89	
	WCDMA Band5	0.37	
	LTE Band 2	1.08	
	LTE Band 4	0.95	
	LTE Band 7	0.96	
	LTE Band 12	0.40	
	LTE Band 26	0.34	
	LTE Band 38	0.76	
	LTE Band 41	0.63	
	LTE Band 66	0.90	
	WLAN 2.4GHz	0.44	DTS
	WLAN 5GHz	0.77	NII

Table 2.3: Highest Reported SAR for Body-worn (1g)

Exposure Configuration	Technology Band	Highest Reported SAR 1g(W/Kg)	Equipment Class
Body-worn (Separation Distance 10/15mm)	GSM850	0.36	PCE
	PCS1900	0.38	
	WCDMA Band2	0.48	
	WCDMA Band4	0.32	
	WCDMA Band5	0.18	
	LTE Band 2	0.52	
	LTE Band 4	0.37	
	LTE Band 7	0.40	
	LTE Band 12	0.22	
	LTE Band 26	0.25	
	LTE Band 33	0.31	
	LTE Band 41	0.30	
	LTE Band 66	0.37	
	WLAN 2.4GHz	0.44	DTS
	WLAN 5GHz	0.55	NII

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/Kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report.

The highest reported SAR value is obtained at the case of **(Table 2.1 & 2.2 & 2.3)**, head value is **1.15 W/kg (1g)**, Hotspot value is **1.18 W/kg (1g)** and Body-worn value is **0.55 W/kg (1g)**.

Table 2.4: The sum of reported SAR values for WWAN antenna and WLAN antenna

<i>l</i>	Position	WWAN	WLAN	Sum
Highest reported SAR value for Head	Right Tilt	0.94	0.29	1.23
Highest reported SAR value for Hotspot	Rear	0.64	0.44	1.08
Highest reported SAR value for Body-worn	Rear	0.37	0.44	0.81

Note: the test positions of above tables are for the worse case that has been evaluated.

Table 2.5: The sum of reported SAR values for WWAN antenna and Bluetooth antenna

<i>l</i>	Position	WWAN	Bluetooth	Sum
Highest reported SAR value for Head	Right Tilt	1.15	0.13	1.28
Highest reported SAR value for Hotspot	Top	1.18	0.21	1.39
Highest reported SAR value for Body-worn	Rear	0.52	0.14	0.66

Note: the test positions of above tables are for the worse case that has been evaluated.

According to the above tables, the highest sum of reported SAR values is **1.39 W/kg (1g)**.

The detail for simultaneous transmission consideration is described in chapter 12.



3. Client Information

3.1. Applicant Information

Company Name:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
City:	DongGuan
Country:	China
Telephone:	(86)76986076999

3.2. Manufacturer Information

Company Name:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
City:	DongGuan
Country:	China
Telephone:	(86)76986076999

4. Equipment under Test (EUT) and Ancillary Equipment (AE)

4.1. About EUT

Description:	Mobile Phone
Model Name:	CPH2269
Condition of EUT as received:	No obvious damage in appearance
Frequency Bands:	GSM 850/1900, WCDMA Band 2/4/5, Bluetooth, LTE Band 2/4/5/7/12/17/18/19/26/38/41/66, WLAN 2.4G/5G
Tested Tx Frequency:	824 – 849MHz (GSM 850)
	1850 – 1910MHz (GSM 1900)
	1850 – 1910MHz (WCDMA Band 2)
	1710 – 1755MHz (WCDMA Band 4)
	824 – 849MHz (WCDMA Band 5)
	1850 – 1910MHz (LTE Band 2)
	1710 – 1755MHz (LTE Band 4)
	824 – 849MHz (LTE Band 5)
	2500 – 2570MHz (LTE Band 7)
	699 – 716MHz (LTE Band 12)
	704 – 716MHz (LTE Band 17)
	815 – 830MHz (LTE Band 18)
	830 – 845MHz (LTE Band 19)
	814 – 849MHz (LTE Band 26)
	2570 – 2620MHz (LTE Band 38)
	2535 – 2655MHz (LTE Band 41)
	1710 – 1780MHz (LTE Band 66)
2402 – 2480MHz (Bluetooth)	
2412 – 2462MHz (WLAN 2.4G)	
5180 – 5825MHz (WLAN 5G)	
GPRS / EGPRS Multislot Class:	12
GPRS capability Class:	B
Test device Production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support
Product Dimensions:	Long 163.78mm; Wide 75.62mm; Overall Diagonal 180.39mm
Remark: 1. This device does not support DTM operation. 2. This device has WWAN Top and Bottom transmitter antennas which can refer to antenna location chapter. 3. The device is capable of switching between the top antenna and bottom antenna based on signal strength.	

4. There are totally 6 power reduction levels of WWAN antenna and 3 power reduction levels of WLAN antenna, detail descriptions of the power reduction mechanism are included in the operational description.
5. For WWAN transmitter (6 sets of power reduction levels).
- a) Head exposure conditions:
- Reduced power level 1 – GSM850/1900, WCDMA Band 2/4, LTE Band 2/4/7/38/41/66
While the device WWAN is transmitting at the WWAN top antenna and the audio is actively routed through the receiver, power reduction enabled for those bands.
- Reduced power level 2 – GSM850/1900, WCDMA Band 2/4, LTE Band 2/4/7/38/41/66
While the device WLAN 2.4G/5G antenna is transmitting simultaneously with the WWAN top antenna, and the audio is actively routed through the receiver, power reduction enabled for those bands.
- b) Body exposure condition
- Reduced power level 3 – WCDMA Band 2/4, LTE Band 2/4/7/38/41/66
While the device is transmitting at the WWAN top antenna and receiver is not working, power reduction enabled for those bands.
- Reduced power level 4 – WCDMA Band 2/4, LTE Band 2/4/66
While the device is transmitting at the WWAN bottom antenna and receiver is not working, power reduction enabled for those bands.
- Reduced power level 5 – GSM850/1900, WCDMA Band 2/4, LTE Band 2/4/7/38/41/66
While the device WLAN 2.4G/5G antenna is transmitting simultaneously with the WWAN top antenna and the receiver is not working, power reduction enabled for those bands.
- Reduced power level 6 – GSM1900, WCDMA Band 2/4, LTE Band 2/4/7/66
While the device WLAN 2.4G/5G antenna is transmitting simultaneously with the WWAN bottom antenna and the receiver is not working, power reduction enabled for those bands.
5. For WLAN transmitter (3 sets of power reduction levels).
- a) Head exposure conditions:
- Reduced power level 7 – WLAN 2.4G/5G
While the device WLAN 2.4G/5G antenna is transmitting and the audio is actively routed through the receiver, power reduction enabled for those bands.
- Reduced power level 8 – WLAN 2.4G/5G
While the device WLAN 2.4G/5G antenna is transmitting simultaneously with the WWAN antenna and the audio is actively routed through the receiver, power reduction enabled for those bands.
- b) Body exposure condition.
- Reduced power level 9 – WLAN 5G
When the device WLAN 5G antenna is transmitting simultaneously with the WWAN antenna and the receiver is not working, power reduction enabled for those bands.

4.2. Power reduction specification

The following tables summarize the key power reduction information. The detailed full power which is the maximum power the state can use and reduced tune-up specifications and conducted power measurement results are provided in chapter 12 of this report.

Band	Top Antenna				Bottom Antenna		
	Head	Head	Body	Body	Head	Body	Body
	Reduced power level 1	Reduced power level 2	Reduced power level 3	Reduced power level 5	Normal	Reduced power level 4	Reduced power level 6
GSM850	-2.0	-3.0	0	-1.0	0	0	0
GSM1900	-4.0	-5.0	0	-1.5	0	0	-1.0
WCDMA B2	-4.5	-5.5	-1.0	-2.5	0	-0.5	-2.0
WCDMA B4	-4.0	-5.5	-1.0	-2.0	0	-1.0	-2.5
WCDMA B5	0	0	0	0	0	0	0
LTE Band2	-5.0	-6.0	-1.0	-2.5	0	-0.5	-2.0
LTE Band4	-4.0	-5.0	-0.5	-2.0	0	-0.5	-2.5
LTE Band5	0	0	0	0	0	0	0
LTE Band7	-7.0	8.0	-4.5	-6.0	0	0	-1.0
LTE Band12	0	0	0	0	0	0	0
LTE Band17	0	0	0	0	0	0	0
LTE Band18	0	0	0	0	0	0	0
LTE Band19	0	0	0	0	0	0	0
LTE Band26	0	0	0	0	0	0	0
LTE Band38	-3.5	-5.0	-0.5	-2.0	0	0	0
LTE Band41	-4.0	-5.5	-1.5	-3.0	0	0	0
LTE Band66	-4.5	-5.5	-0.5	-2.0	0	-1.0	-2.5
Band	WLAN Antenna						
	Head		Head		Body		
	Reduced power level 7		Reduced power level 8		Reduced power level 9		
WLAN 2.4G	-2.5		-4.5		0		
WLAN 5.2G	-3.0		-6.0		-4.0		
WLAN 5.3G	-3.0		-6.0		-4.0		
WLAN 5.5G	-3.0		-6.0		-4.0		
WLAN 5.8G	-3.0		-6.0		-4.0		

4.3. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receipt Date
UT07aa	IMEI1:866223050027656 IMEI2:866223050027649	11	ColorOS V11.1	2021-04-10
UT08aa	IMEI1:866223050029017 IMEI2:866223050029009	11	ColorOS V11.1	2021-04-10
UT09aa	IMEI1:866223050031872 IMEI2:866223050031864	11	ColorOS V11.1	2021-04-10
UT10aa	IMEI1:864849050019871 IMEI2:864849050019863	11	ColorOS V11.1	2021-04-10

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the UT08aa & UT09aa & UT10aa, and conducted power with the UT07aa.

4.4. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery	BLP805	Sunwoda Electronic Co., Ltd.
AE2	Battery	BLP805	HUIZHOU DESAY BATTERY Co.,LTD.
AE3	Battery	BLP805	Chongqing CosMX Battery Co., Ltd.
AE4	Battery	BLP805	PT.BATTERY TECHNOLOGY INDONESIA
AE5	Headset	MH156	GuangDong Allwin Technology Co.,Ltd

*AE ID: is used to identify the test sample in the lab internally.

Note: The device has four types of batteries. AE1 battery was used for the initial test, AE2 battery, AE3 battery and AE4 battery were used for verification tests with the worst configuration.

5. Test Methodology

5.1. Applicable Limit Regulations

ANSI C95.1–1992 IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2. Applicable Measurement Standards

IEEE 1528–2013 Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Experimental Techniques.

KDB 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

KDB 648474 D04 Handset SAR v01r03 SAR Evaluation Considerations for Wireless Handsets.

KDB 941225 D01 SAR test for 3G devices v03r01 SAR Measurement Procedures for 3G Devices

KDB 941225 D05 SAR for LTE Devices v02r05 SAR Evaluation Considerations for LTE Devices

KDB 941225 D06 Hot Spot SAR v02r01 SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB 248227 D01 802.11 Wi-Fi SAR v02r02 SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters.

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04 SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB 865664 D02 RF Exposure Reporting v01r02 RF Exposure Compliance Reporting and Documentation Considerations

KDB 941225 D07 UMPC Mini Tablet v01r02 SAR Evaluation Procedures for UMPC Mini-Tablet Devices

TCB workshop April 2019; RF Exposure Procedures (Tissue Simulating Liquids)

6. Specific Absorption Rate (SAR)

6.1. Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2. SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7. Tissue Simulating Liquids

7.1. Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

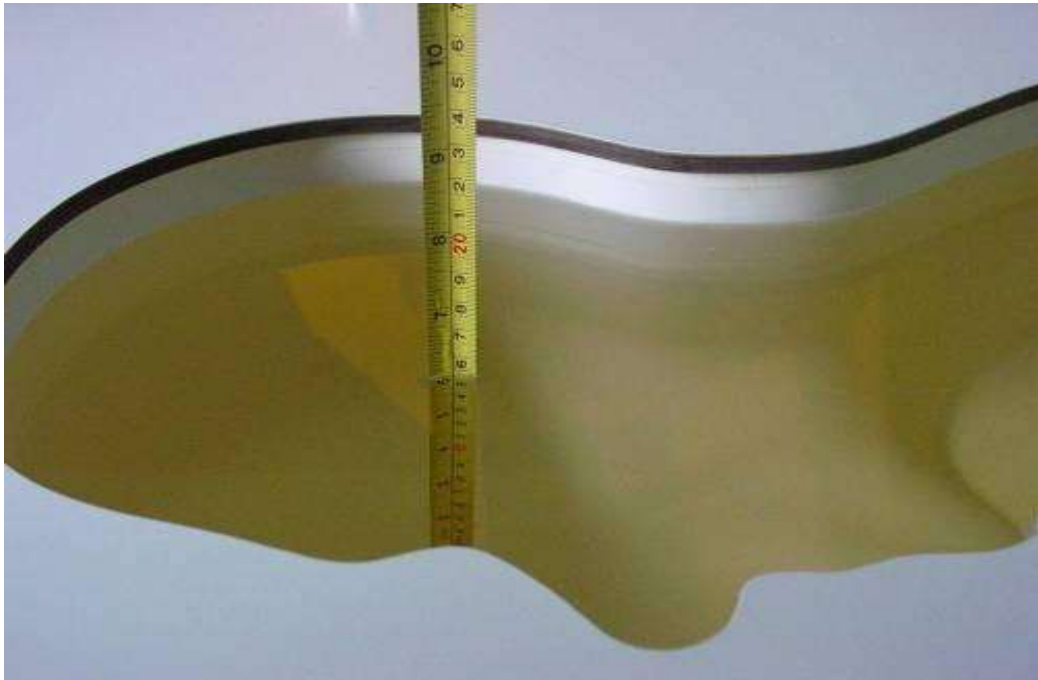
Frequency (MHz)	Liquid Type	Conductivity (σ)	$\pm 5\%$ Range	Permittivity (ϵ)	$\pm 5\%$ Range
750	Head	0.89	0.85~0.93	41.9	39.8~44.0
835	Head	0.90	0.86~0.95	41.5	39.4~43.6
1750	Head	1.37	1.30~1.44	40.1	38.1~42.1
1900	Head	1.40	1.33~1.47	40.0	38.0~42.0
2450	Head	1.80	1.71~1.89	39.2	37.2~41.2
2550	Head	1.91	1.81~2.01	39.1	37.1~41.0
5250	Head	4.71	4.47~4.95	35.9	34.1~37.7
5600	Head	5.07	4.82~5.32	35.5	33.8~37.3
5750	Head	5.22	4.96~5.48	35.4	33.6~37.1

7.2. Dielectric Performance

Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Conductivity σ (S/m)	Drift (%)	Permittivity ϵ	Drift (%)
2021-04-12	Head	750	0.914	2.70	41.16	-1.77
2021-04-20	Head	835	0.922	2.44	40.45	-2.53
2021-05-12	Head	1750	1.378	0.58	39.62	-1.20
2021-04-30	Head	1900	1.391	-0.64	39.27	-1.82
2021-05-08	Head	2450	1.826	1.44	38.55	-1.66
2021-04-27	Head	2550	1.953	2.25	37.94	-2.97
2021-05-10	Head	5250	4.645	-1.38	36.66	2.12
2021-05-10	Head	5600	5.145	1.48	34.73	-2.17
2021-05-10	Head	5750	5.166	-1.03	36.39	2.80

Note: The liquid temperature is 22.0°C.



Picture 7-1: Liquid depth in the Head Phantom (750MHz)



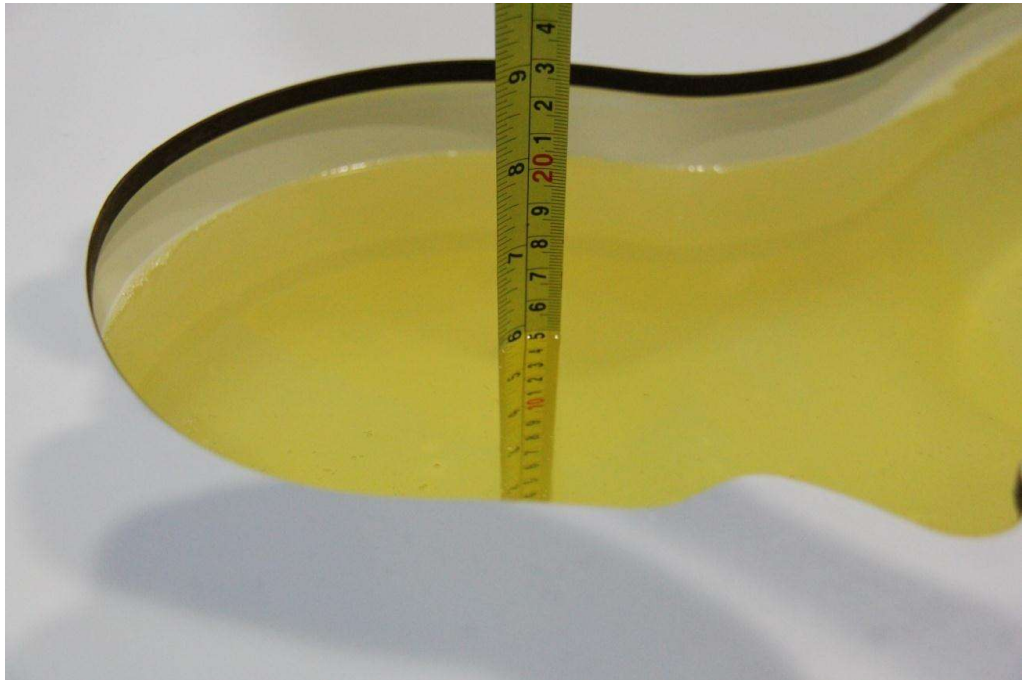
Picture 7-2: Liquid depth in the Head Phantom (835MHz)



Picture 7-3: Liquid depth in the Head Phantom (1750MHz)



Picture 7-4: Liquid depth in the Head Phantom (1900MHz)



Picture 7-5: Liquid depth in the Head Phantom(2450MHz)



Picture 7-6: Liquid depth in the Head Phantom(2550MHz)

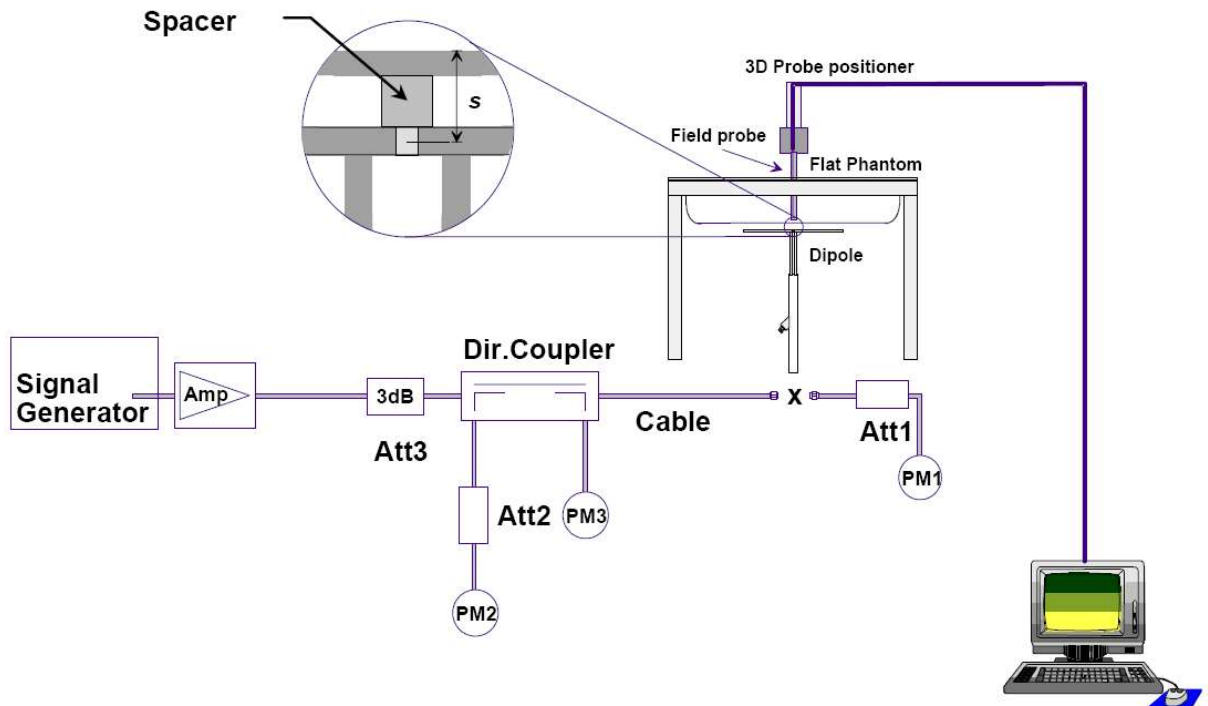


Picture 7-7: Liquid depth in the Head Phantom(5GHz)

8. System verification

8.1. System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 8.1 System Setup for System Evaluation

For the dipole below 3GHz, the output power on dipole port must be calibrated to 24 dBm (250mW) before dipole is connected.

For the dipole above 3GHz, the output power on dipole port must be calibrated to 20 dBm (100mW) before dipole is connected.



Picture 8.2 Photo of Dipole Setup

8.2. System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

Table 8.1: System Verification of Head

Measurement Date	Frequency (MHz)	Target value (W/kg)		Measured value (W/kg)				Deviation (%)	
		10 g	1 g	/		Normalize to 1W		10 g	1 g
				10 g	1 g	10 g	1 g		
2021-04-12	750	5.70	8.53	1.47	2.23	5.88	8.92	3.16	4.57
2021-04-20	835	6.29	9.62	1.59	2.45	6.36	9.80	1.11	1.87
2021-05-12	1750	19.30	36.40	4.88	9.32	19.52	37.28	1.14	2.42
2021-04-30	1900	21.00	40.50	5.17	9.85	20.68	39.40	-1.52	-2.72
2021-05-08	2450	24.10	52.00	6.14	13.4	24.56	53.60	1.91	3.08
2021-04-27	2550	26.50	57.80	6.76	15.0	27.04	60.00	2.04	3.81
2021-05-10	5250	22.30	78.00	2.19	7.53	21.90	75.30	-1.79	-3.46
2021-05-10	5600	22.70	79.50	2.33	8.27	23.30	82.70	2.64	4.03
2021-05-10	5750	22.20	78.40	2.16	7.48	21.60	74.80	-2.70	-4.59

9. Measurement Procedures

9.1. Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

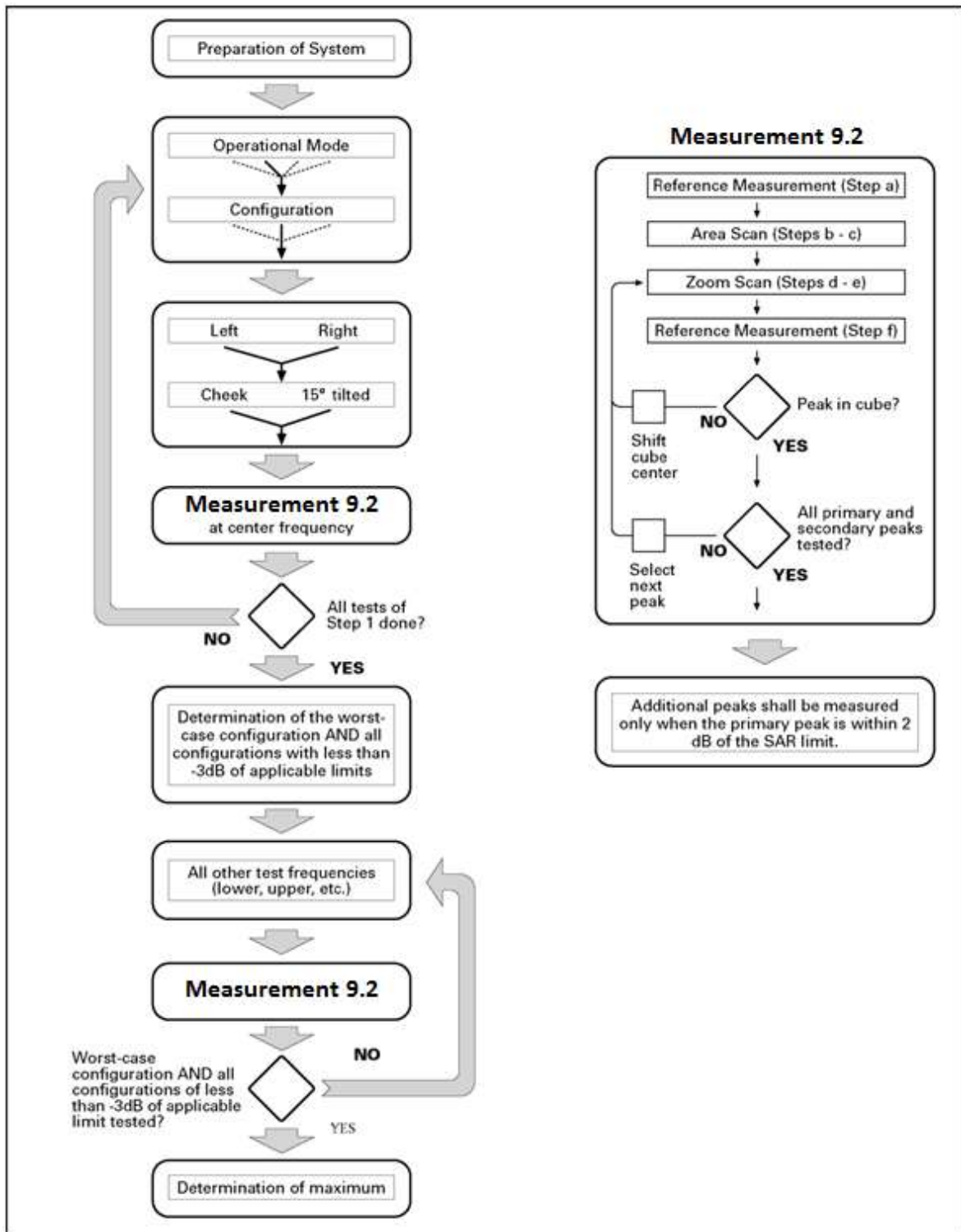
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the center of the transmit frequency band (f_c) for:

- a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
- b) all configurations for each device position in a), e.g., antenna extended and retracted, and
- c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_C > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.



Picture 9.1 Block diagram of the tests to be performed

9.2. General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the <i>reported</i> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.3. WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH_n), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.0	0.0	21	81

9.4. LTE Measurement Procedures for SAR

SAR tests for LTE are performed with a base station simulator, Anristu MT8820C. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the Anristu MT8820C. It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

9.5. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 41 support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle

Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

Where

$T_s = 1/(15000 \times 2048)$ seconds

Note:

1. From May 2017 TCB Workshop, HPUE does not support uplink-downlink configurations 0 and 6.
2. This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3% (Power Class 3) and configuration 1 at 43.3% (Power Class 2) duty cycle.

9.6. Bluetooth & WLAN Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

9.7. Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in Section 14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10. Conducted Output Power

10.1. GSM Measurement result

During the process of testing, the EUT was controlled via Agilent Digital Radio Communication tester (E5515C) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured peak output power should be greater and within 5% than EMI measurement.

Table 10.1: The conducted power measurement results for GSM

Top Antenna - Full Power				
GSM 850MHz	Tune up	Conducted Power (dBm)		
	34.0	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
		32.69	32.63	32.60
GSM 1900MHz	Tune up	Conducted Power(dBm)		
	30.5	Ch.810 (1909.8MHz)	Ch.661 (1880MHz)	Ch.512 (1850.2MHz)
		29.91	29.73	29.65
Bottom Antenna - Full Power				
GSM 850MHz	Tune up	Conducted Power (dBm)		
	34.0	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
		32.50	32.42	32.40
GSM 1900MHz	Tune up	Conducted Power(dBm)		
	30.5	Ch.810 (1909.8MHz)	Ch.661 (1880MHz)	Ch.512 (1850.2MHz)
		29.71	29.53	29.50

Top Antenna - Reduced power level 1				
GSM 850MHz	Tune up	Conducted Power (dBm)		
		Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
	32.0	31.07	31.15	31.09
GSM 1900MHz	Tune up	Conducted Power(dBm)		
		Ch.810 (1909.8MHz)	Ch.661 (1880MHz)	Ch.512 (1850.2MHz)
	26.5	26.25	26.09	26.05
Top Antenna - Reduced power level 2				
GSM 850MHz	Tune up	Conducted Power (dBm)		
		Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
	31.0	30.16	30.23	30.16
GSM 1900MHz	Tune up	Conducted Power(dBm)		
		Ch.810 (1909.8MHz)	Ch.661 (1880MHz)	Ch.512 (1850.2MHz)
	25.5	25.33	25.18	25.12

Top Antenna - Reduced power level 5				
GSM 850MHz	Tune up	Conducted Power (dBm)		
		Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
	33.0	31.90	31.90	31.87
GSM 1900MHz	Tune up	Conducted Power(dBm)		
		Ch.810 (1909.8MHz)	Ch.661 (1880MHz)	Ch.512 (1850.2MHz)
	29.5	28.71	28.65	28.52
Bottom Antenna - Reduced power level 6				
GSM 1900MHz	Tune up	Conducted Power(dBm)		
		Ch.810 (1909.8MHz)	Ch.661 (1880MHz)	Ch.512 (1850.2MHz)
	29.5	28.91	28.80	28.80

Table 10.2: The conducted power measurement results for GPRS and EGPRS

Top Antenna - Full Power								
GPRS850/ EGPRS850	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	34.0	32.67	32.62	32.58	-9.03dB	23.64	23.59	23.55
2Tx-slots	32.0	31.94	31.87	31.86	-6.02dB	25.92	25.85	25.84
3Tx-slots	30.5	30.20	30.11	30.10	-4.26dB	25.94	25.85	25.84
4Tx-slots	29.5	29.08	29.01	28.97	-3.01dB	26.07	26.00	25.96
EGPRS 850 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	27.5	27.14	26.85	26.79	-9.03dB	18.11	17.82	17.76
2Tx-slots	26.5	26.13	25.68	25.72	-6.02dB	20.11	19.66	19.70
3Tx-slots	24.5	23.84	23.48	23.56	-4.26dB	19.58	19.22	19.30
4Tx-slots	23.5	22.61	22.26	22.24	-3.01dB	19.60	19.25	19.23
GPRS1900/ EGPRS1900	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	30.5	29.90	29.70	29.63	-9.03dB	20.87	20.67	20.60
2Tx-slots	28.5	28.26	28.07	28.02	-6.02dB	22.24	22.05	22.00
3Tx-slots	27.5	27.32	27.15	27.11	-4.26dB	23.06	22.89	22.85
4Tx-slots	26.0	25.82	25.66	25.59	-3.01dB	22.81	22.65	22.58
EGPRS 1900 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	26.0	25.95	25.90	25.97	-9.03dB	17.02	16.87	16.94
2Tx-slots	25.5	25.09	24.89	25.02	-6.02dB	19.07	18.87	19.00
3Tx-slots	23.5	23.16	22.95	23.18	-4.26dB	18.90	18.69	18.92
4Tx-slots	22.5	22.08	21.97	21.96	-3.01dB	19.07	18.96	18.95

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for 850MHz and 3Txslots for 1900MHz.

Bottom Antenna - Full Power								
GPRS850/ EGPRS850	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	34.0	32.49	32.40	32.38	-9.03dB	23.46	23.37	23.35
2Tx-slots	32.0	31.78	31.77	31.68	-6.02dB	25.76	25.75	25.66
3Tx-slots	30.5	30.07	29.97	29.96	-4.26dB	25.81	25.71	25.70
4Tx-slots	29.5	28.98	28.91	28.91	-3.01dB	25.97	25.90	25.90
EGPRS 850 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	27.5	26.90	26.61	26.64	-9.03dB	17.87	17.58	17.61
2Tx-slots	26.5	25.99	25.58	25.52	-6.02dB	19.97	19.56	19.50
3Tx-slots	24.5	23.68	23.28	23.40	-4.26dB	19.42	19.02	19.14
4Tx-slots	23.5	22.48	22.16	22.11	-3.01dB	19.47	19.15	19.10
GPRS1900/ EGPRS1900	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	30.5	29.70	29.51	29.48	-9.03dB	20.67	20.48	20.45
2Tx-slots	28.5	28.07	27.84	27.85	-6.02dB	22.05	21.82	21.83
3Tx-slots	27.5	27.08	26.95	26.90	-4.26dB	22.82	22.69	22.64
4Tx-slots	26.0	25.63	25.45	25.41	-3.01dB	22.62	22.44	22.40
EGPRS 1900 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	26.0	25.83	25.70	25.73	-9.03dB	16.80	16.67	16.70
2Tx-slots	25.5	24.87	24.71	24.81	-6.02dB	18.85	18.69	18.79
3Tx-slots	23.5	22.99	22.75	22.94	-4.26dB	18.73	18.49	18.68
4Tx-slots	22.5	21.85	21.78	21.75	-3.01dB	18.84	18.77	18.74

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for 850MHz and 3Txslots for 1900MHz.



Top Antenna - Reduced power level 1								
GPRS850/ EGPRS850	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	32.0	31.06	31.12	31.07	-9.03dB	22.03	22.09	22.04
2Tx-slots	29.0	28.17	28.15	28.12	-6.02dB	22.15	22.13	22.10
3Tx-slots	27.0	26.38	26.34	26.32	-4.26dB	22.12	22.08	22.06
4Tx-slots	25.5	25.00	24.96	24.92	-3.01dB	21.99	21.95	21.91
EGPRS 850 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	25.5	25.34	25.10	24.95	-9.03dB	16.31	16.07	15.92
2Tx-slots	23.0	22.24	21.85	21.92	-6.02dB	16.22	15.83	15.90
3Tx-slots	21.0	20.21	19.71	19.98	-4.26dB	15.95	15.45	15.72
4Tx-slots	19.5	18.61	18.28	18.38	-3.01dB	15.60	15.27	15.37
GPRS1900/ EGPRS1900	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	26.5	26.24	26.07	26.02	-9.03dB	17.21	17.04	16.99
2Tx-slots	23.5	23.31	23.14	23.11	-6.02dB	17.29	17.12	17.09
3Tx-slots	22.0	21.58	21.39	21.35	-4.26dB	17.32	17.13	17.09
4Tx-slots	20.5	20.25	20.12	20.07	-3.01dB	17.24	17.11	17.06
EGPRS 1900 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	23.0	22.36	22.21	22.14	-9.03dB	13.33	13.18	13.11
2Tx-slots	21.5	19.31	19.14	19.26	-6.02dB	13.29	13.12	13.24
3Tx-slots	19.5	17.59	17.35	17.49	-4.26dB	13.33	13.09	13.23
4Tx-slots	18.5	16.25	16.06	16.13	-3.01dB	13.24	13.05	13.12



Top Antenna - Reduced power level 2								
GPRS850/ EGPRS850	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	31.0	30.15	30.21	30.15	-9.03dB	21.12	21.18	21.12
2Tx-slots	28.0	27.09	27.10	27.04	-6.02dB	21.07	21.08	21.02
3Tx-slots	25.5	25.32	25.31	25.31	-4.26dB	21.06	21.05	21.05
4Tx-slots	24.5	24.08	24.01	24.02	-3.01dB	21.07	21.00	21.01
EGPRS 850 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	25.0	24.44	24.17	24.01	-9.03dB	15.41	15.14	14.98
2Tx-slots	21.5	21.20	20.78	20.85	-6.02dB	15.18	14.76	14.83
3Tx-slots	19.5	19.16	18.64	18.96	-4.26dB	14.90	14.38	14.70
4Tx-slots	18.0	17.67	17.34	17.46	-3.01dB	14.66	14.33	14.45
GPRS1900/ EGPRS1900	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	25.5	25.31	25.17	25.10	-9.03dB	16.28	16.14	16.07
2Tx-slots	22.5	22.27	22.12	22.06	-6.02dB	16.25	16.10	16.04
3Tx-slots	21.0	20.55	20.37	20.36	-4.26dB	16.29	16.11	16.10
4Tx-slots	19.5	19.29	19.12	19.10	-3.01dB	16.28	16.11	16.09
EGPRS 1900 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	22.0	21.44	21.28	21.23	-9.03dB	12.41	12.25	12.20
2Tx-slots	19.0	18.27	18.06	18.20	-6.02dB	12.25	12.04	12.18
3Tx-slots	17.0	16.58	16.33	16.40	-4.26dB	12.32	12.07	12.14
4Tx-slots	16.0	15.30	15.16	15.25	-3.01dB	12.29	12.15	12.24

Top Antenna - Reduced power level 5								
GPRS850/ EGPRS850	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	33.0	31.89	31.88	31.85	-9.03dB	22.86	22.85	22.82
2Tx-slots	30.0	29.15	29.13	29.07	-6.02dB	23.13	23.11	23.05
3Tx-slots	28.0	27.38	27.36	27.27	-4.26dB	23.12	23.10	23.01
4Tx-slots	26.5	26.08	25.94	25.96	-3.01dB	23.07	22.93	22.95
EGPRS 850 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		251	190	128		251	190	128
1Tx-slots	26.5	26.10	25.93	25.73	-9.03dB	17.07	16.90	16.70
2Tx-slots	23.5	23.12	22.75	22.85	-6.02dB	17.10	16.73	16.83
3Tx-slots	21.5	21.19	20.72	20.98	-4.26dB	16.93	16.46	16.72
4Tx-slots	20.0	19.65	19.25	19.38	-3.01dB	16.64	16.24	16.37
GPRS1900/ EGPRS1900	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	29.0	28.70	28.62	28.50	-9.03dB	19.67	19.59	19.47
2Tx-slots	26.5	25.82	25.64	25.64	-6.02dB	19.80	19.62	19.62
3Tx-slots	25.0	24.08	23.93	23.89	-4.26dB	19.82	19.67	19.63
4Tx-slots	23.5	22.81	22.61	22.53	-3.01dB	19.80	19.60	19.52
EGPRS 1900 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	25.0	24.86	24.69	24.63	-9.03dB	15.83	15.66	15.60
2Tx-slots	22.0	21.78	21.60	21.78	-6.02dB	15.76	15.58	15.76
3Tx-slots	20.5	20.13	19.80	19.99	-4.26dB	15.87	15.54	15.73
4Tx-slots	19.0	18.72	18.52	18.65	-3.01dB	15.71	15.51	15.64

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 2Txslots for 850MHz and 3Txslots for 1900MHz.

Bottom Antenna - Reduced power level 6								
GPRS1900/ EGPRS1900	Tune up	Measured Power (dBm)			calculation	Average Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	29.5	28.90	28.78	28.77	-9.03dB	19.87	19.75	19.74
2Tx-slots	27.0	26.05	25.93	25.91	-6.02dB	20.03	19.91	19.89
3Tx-slots	25.5	24.38	24.29	24.28	-4.26dB	20.12	20.03	20.02
4Tx-slots	24.0	23.12	23.01	23.01	-3.01dB	20.11	20.00	20.00
EGPRS 1900 (8PSK)	Tune up	Measured Power (dBm)			calculation	Measured Power (dBm)		
		810	661	512		810	661	512
1Tx-slots	25.5	24.92	24.79	24.87	-9.03dB	15.89	15.76	15.84
2Tx-slots	22.5	22.12	21.87	21.89	-6.02dB	16.10	15.85	15.87
3Tx-slots	20.5	20.24	20.02	20.16	-4.26dB	15.98	15.76	15.90
4Tx-slots	19.5	18.91	18.75	18.85	-3.01dB	15.90	15.74	15.84

Notes:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 3Txslots for 1900MHz.

10.2. WCDMA Measurement result

Table 10.3: T The conducted power measurement results WCDMA

Top Antenna - Full Power					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	24.0	23.3	23.2	23.3
HSUPA	1	22.5	21.8	21.7	21.9
	2	22.5	21.3	21.2	21.3
	3	23.5	22.3	22.2	22.3
	4	22.0	20.8	20.7	20.8
	5	23.5	22.3	22.1	22.3
HSDPA	1	23.5	22.3	22.2	22.3
	2	23.5	22.2	22.2	22.3
	3	22.5	21.8	21.7	21.9
	4	22.5	21.7	21.7	21.8
DC-HSDPA	1	23.5	22.1	22.2	22.2
	2	23.5	22.2	22.2	22.2
	3	22.5	21.8	21.8	21.8
	4	22.5	21.6	21.7	21.8
Bottom Antenna - Full Power					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	24.0	23.2	23.0	23.2
HSUPA	1	22.5	21.7	21.5	21.7
	2	22.5	21.2	21.1	21.3
	3	23.5	22.2	22.1	22.2
	4	22.0	20.7	20.6	20.7
	5	23.5	22.1	22.0	22.3
HSDPA	1	23.5	22.2	22.1	22.3
	2	23.5	22.1	22.0	22.2
	3	22.5	21.6	21.6	21.7
	4	22.5	21.6	21.5	21.7
DC-HSDPA	1	23.5	22.2	22.2	22.3
	2	23.5	22.1	22.0	22.2
	3	22.5	21.6	21.5	21.7
	4	22.5	21.5	21.5	21.5

Top Antenna - Reduced power level 1					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	19.5	18.7	18.6	18.8
HSUPA	1	18.0	17.3	17.2	17.4
	2	18.0	16.8	16.6	16.9
	3	19.0	17.8	17.6	17.8
	4	17.5	16.3	16.2	16.4
	5	19.0	17.7	17.7	17.8
HSDPA	1	19.5	18.8	18.7	18.9
	2	19.5	18.8	18.6	18.8
	3	19.0	18.3	18.2	18.4
	4	19.0	18.3	18.1	18.4
DC-HSDPA	1	19.5	18.8	18.8	18.8
	2	19.5	18.8	18.6	18.7
	3	19.0	18.3	18.2	18.4
	4	19.0	18.2	18.2	18.2
Top Antenna - Reduced power level 2					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	18.5	17.7	17.6	17.7
HSUPA	1	17.0	16.2	16.1	16.3
	2	17.0	15.7	15.6	15.8
	3	18.0	16.8	16.6	16.8
	4	16.5	15.2	15.1	15.3
	5	18.0	16.6	16.6	16.8
HSDPA	1	18.5	17.7	17.6	17.8
	2	18.5	17.6	17.5	17.7
	3	18.0	17.2	17.1	17.3
	4	18.0	17.1	17.1	17.2
DC-HSDPA	1	18.5	17.6	17.6	17.6
	2	18.5	17.6	17.5	17.7
	3	18.0	17.1	17.1	17.1
	4	18.0	17.0	17.1	17.2

Top Antenna - Reduced power level 3					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	23.0	22.2	22.1	22.2
HSUPA	1	21.5	20.7	20.6	20.8
	2	21.5	20.3	20.1	20.3
	3	22.5	21.2	21.1	21.3
	4	21.0	19.7	19.6	19.8
	5	22.5	21.2	21.1	21.2
HSDPA	1	23.0	22.2	22.1	22.3
	2	23.0	22.2	22.1	22.2
	3	22.5	21.7	21.6	21.7
	4	22.5	21.7	21.6	21.7
DC-HSDPA	1	23.0	22.2	22.2	22.2
	2	23.0	22.1	22.1	22.2
	3	22.5	21.6	21.6	21.6
	4	22.5	21.6	21.5	21.6
Top Antenna - Reduced power level 5					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	21.5	20.8	20.7	20.8
HSUPA	1	20.0	19.3	19.2	19.4
	2	20.0	18.8	18.7	18.9
	3	21.0	19.8	19.8	19.9
	4	19.5	18.4	18.2	18.4
	5	21.0	19.8	19.7	19.8
HSDPA	1	21.5	20.8	20.7	20.9
	2	21.5	20.8	20.6	20.8
	3	21.0	20.3	20.2	20.4
	4	21.0	20.3	20.2	20.4
DC-HSDPA	1	21.5	20.8	20.7	20.8
	2	21.5	20.7	20.6	20.8
	3	21.0	20.4	20.2	20.4
	4	21.0	20.4	20.2	20.3

Bottom Antenna - Reduced power level 4					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	23.5	22.6	22.6	22.7
HSUPA	1	22.0	21.3	21.0	21.3
	2	22.0	20.6	20.5	20.6
	3	23.0	21.7	21.5	21.9
	4	21.5	20.1	20.1	20.2
	5	23.0	21.7	21.7	21.7
HSDPA	1	23.5	22.7	22.5	22.6
	2	23.5	22.7	22.5	22.6
	3	23.0	22.1	22.1	22.3
	4	23.0	22.2	22.1	22.3
DC-HSDPA	1	23.5	22.5	22.5	22.6
	2	23.5	22.4	22.3	22.6
	3	23.0	22.2	22.1	22.3
	4	23.0	22.2	22.1	22.2
Bottom Antenna - Reduced power level 6					
Item	band	WCDMA Band 2 result			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	\	22.0	21.1	21.0	21.2
HSUPA	1	20.5	19.7	19.6	19.8
	2	20.5	19.2	19.1	19.2
	3	21.5	20.2	20.1	20.3
	4	20.0	18.7	18.6	18.7
	5	21.5	20.2	20.1	20.2
HSDPA	1	22.0	21.1	21.1	21.2
	2	22.0	21.1	21.0	21.2
	3	21.5	20.6	20.6	20.7
	4	21.5	20.6	20.5	20.7
DC-HSDPA	1	22.0	21.1	21.0	21.1
	2	22.0	21.0	21.0	21.0
	3	21.5	20.6	20.5	20.6
	4	21.5	20.4	20.3	20.5



Top Antenna - Full Power					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	24.0	23.4	23.4	23.5
HSUPA	1	22.5	21.8	21.9	22.1
	2	22.5	21.4	21.4	21.5
	3	23.5	22.3	22.4	22.6
	4	22.0	20.9	20.9	21.1
	5	23.5	22.3	22.4	22.5
HSDPA	1	23.5	22.4	22.4	22.6
	2	23.5	22.3	22.4	22.5
	3	22.5	21.8	21.9	21.9
	4	22.5	21.8	21.9	21.9
DC-HSDPA	1	23.5	22.3	22.4	22.5
	2	23.5	22.2	22.4	22.4
	3	22.5	21.8	21.8	21.9
	4	22.5	21.7	21.8	21.9
Bottom Antenna - Full Power					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	24.0	23.3	23.3	23.4
HSUPA	1	22.5	21.8	21.8	22.0
	2	22.5	21.3	21.3	21.5
	3	23.5	22.3	22.3	22.5
	4	22.0	20.8	20.8	21.0
	5	23.5	22.3	22.3	22.5
HSDPA	1	23.5	22.3	22.3	22.5
	2	23.5	22.2	22.3	22.5
	3	22.5	21.7	21.7	22.0
	4	22.5	21.7	21.7	21.9
DC-HSDPA	1	23.5	22.2	22.3	22.4
	2	23.5	22.3	22.3	22.3
	3	22.5	21.7	21.8	21.9
	4	22.5	21.6	21.7	21.7

Top Antenna - Reduced power level 1					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	20.0	19.2	19.2	19.5
HSUPA	1	18.5	17.9	17.9	18.1
	2	18.5	17.4	17.4	17.6
	3	19.5	18.3	18.4	18.5
	4	18.0	16.8	17.0	17.1
	5	19.5	18.4	18.4	18.6
HSDPA	1	20.0	19.4	19.5	19.6
	2	20.0	19.4	19.4	19.6
	3	19.5	18.9	18.9	19.1
	4	19.5	18.8	18.9	19.1
DC-HSDPA	1	20.0	19.5	19.5	19.5
	2	20.0	19.3	19.4	19.4
	3	19.5	18.9	19.0	19.1
	4	19.5	18.8	18.9	19.0
Top Antenna - Reduced power level 2					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	18.5	17.7	17.7	17.9
HSUPA	1	17.0	16.1	16.2	16.4
	2	17.0	15.7	15.8	16.0
	3	18.0	16.9	16.9	17.0
	4	16.5	15.1	15.1	15.3
	5	18.0	16.7	16.9	17.0
HSDPA	1	18.5	17.9	17.9	18.1
	2	18.5	17.8	17.8	18.0
	3	18.0	17.3	17.4	17.5
	4	18.0	17.3	17.3	17.5
DC-HSDPA	1	18.5	17.8	17.9	17.9
	2	18.5	17.8	17.8	17.8
	3	18.0	17.3	17.4	17.5
	4	18.0	17.4	17.4	17.4

Top Antenna - Reduced power level 3					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	23.0	22.3	22.3	22.5
HSUPA	1	21.5	20.8	20.8	21.0
	2	21.5	20.3	20.3	20.5
	3	22.5	21.3	21.3	21.4
	4	21.0	19.8	19.9	20.0
	5	22.5	21.2	21.1	21.5
HSDPA	1	23.0	22.3	22.3	22.5
	2	23.0	22.2	22.3	22.5
	3	22.5	21.7	21.8	22.0
	4	22.5	21.7	21.8	22.0
DC-HSDPA	1	23.0	22.3	22.4	22.5
	2	23.0	22.2	22.3	22.4
	3	22.5	21.7	21.8	21.9
	4	22.5	21.8	21.8	21.8
Top Antenna - Reduced power level 5					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	22.0	21.3	21.4	21.6
HSUPA	1	20.5	19.9	19.9	20.1
	2	20.5	19.4	19.4	19.6
	3	21.5	20.3	20.4	20.6
	4	20.0	18.9	19.0	19.1
	5	21.5	20.4	20.4	20.6
HSDPA	1	22.0	21.4	21.5	21.6
	2	22.0	21.3	21.4	21.6
	3	21.5	20.8	20.9	21.1
	4	21.5	20.8	20.9	21.1
DC-HSDPA	1	22.0	21.3	21.4	21.6
	2	22.0	21.3	21.4	21.4
	3	21.5	20.8	20.8	20.9
	4	21.5	20.7	20.9	20.9

Bottom Antenna - Reduced power level 4					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	23.0	22.3	22.3	22.5
HSUPA	1	21.5	20.8	20.9	21.0
	2	21.5	20.2	20.3	20.4
	3	22.5	21.2	21.4	21.5
	4	21.0	19.7	19.8	19.9
	5	22.5	21.1	21.3	21.6
HSDPA	1	23.0	22.3	22.3	22.6
	2	23.0	22.2	22.2	22.5
	3	22.5	21.9	21.9	22.1
	4	22.5	21.7	21.7	21.9
DC-HSDPA	1	23.0	22.3	22.2	22.4
	2	23.0	22.2	22.2	22.3
	3	22.5	21.8	21.9	22.0
	4	22.5	21.8	21.8	21.9
Bottom Antenna - Reduced power level 6					
Item	band	WCDMA Band 4 result			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	\	21.5	20.8	20.8	21.0
HSUPA	1	20.0	19.3	19.3	19.5
	2	20.0	18.8	18.8	19.0
	3	21.0	19.8	19.8	20.0
	4	19.5	18.3	18.3	18.5
	5	21.0	19.6	19.8	20.0
HSDPA	1	21.5	20.8	20.8	21.0
	2	21.5	20.7	20.8	20.9
	3	21.0	20.3	20.3	20.5
	4	21.0	20.3	20.3	20.4
DC-HSDPA	1	21.5	20.9	20.8	21.0
	2	21.5	20.7	20.8	20.8
	3	21.0	20.3	20.2	20.3
	4	21.0	20.3	20.3	20.3



Top Antenna - Full Power					
Item	band	WCDMA Band 5 result			
	ARFCN	Tune up	Ch.4233 (846.6MHz)	Ch.4182 (836.4MHz)	Ch.4132 (826.4MHz)
WCDMA	\	24.0	23.5	23.4	23.4
HSUPA	1	22.5	22.1	22.0	21.9
	2	22.5	21.5	21.5	21.4
	3	23.5	22.5	22.5	22.5
	4	22.0	21.1	21.0	20.9
	5	23.5	22.5	22.5	22.4
HSDPA	1	23.5	22.6	22.5	22.5
	2	23.5	22.5	22.5	22.4
	3	22.5	22.1	22.0	21.9
	4	22.5	22.1	22.0	21.9
DC-HSDPA	1	23.5	22.5	22.5	22.5
	2	23.5	22.3	22.4	22.4
	3	22.5	22.1	22.0	21.9
	4	22.5	22.0	22.0	22.0
Bottom Antenna - Full Power					
Item	band	WCDMA Band 5 result			
	ARFCN	Tune up	Ch.4233 (846.6MHz)	Ch.4182 (836.4MHz)	Ch.4132 (826.4MHz)
WCDMA	\	24.0	23.5	23.4	23.4
HSUPA	1	22.5	22.0	22.0	21.9
	2	22.5	21.5	21.4	21.4
	3	23.5	22.5	22.4	22.4
	4	22.0	21.1	21.0	20.9
	5	23.5	22.4	22.4	22.4
HSDPA	1	23.5	22.6	22.5	22.5
	2	23.5	22.5	22.4	22.4
	3	22.5	22.0	21.9	21.9
	4	22.5	22.0	21.9	21.9
DC-HSDPA	1	23.5	22.5	22.5	22.4
	2	23.5	22.4	22.4	22.4
	3	22.5	22.0	22.0	22.0
	4	22.5	22.0	21.9	21.8

10.3. LTE Measurement result

According to April 2015 TCB workshop, SAR Test exclusion can be applied for testing overlapping LTE Bands as follows:

- a) The maximum out power, including tolerance, for the smaller band must be \leq the larger band to qualify for SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

LTE Band 5 (824-849MHz) is covered by LTE Band 26 (814-849MHz)

LTE Band 17 (704-716MHz) is covered by LTE Band 12 (699-716MHz)

LTE Band 18 (815-830MHz) is covered by LTE Band 26 (814-849MHz)

LTE Band 19 (830-845MHz) is covered by LTE Band 26 (814-849MHz)

Table 10.4: The conducted Power for LTE

Top Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	23.20	22.48	21.48	24.0	23.0	22.0
		1880.0	23.20	22.59	21.59	24.0	23.0	22.0
		1850.7	23.28	22.51	21.53	24.0	23.0	22.0
	1RB_3	1909.3	23.30	22.62	21.57	24.0	23.0	22.0
		1880.0	23.40	22.69	21.65	24.0	23.0	22.0
		1850.7	23.35	22.59	21.68	24.0	23.0	22.0
	1RB_0	1909.3	23.16	22.54	21.41	24.0	23.0	22.0
		1880.0	23.28	22.59	21.58	24.0	23.0	22.0
		1850.7	23.24	22.52	21.54	24.0	23.0	22.0
	3RB_3	1909.3	23.30	22.26	21.47	24.0	23.0	22.0
		1880.0	23.37	22.29	21.62	24.0	23.0	22.0
		1850.7	23.33	22.42	21.49	24.0	23.0	22.0
	3RB_1	1909.3	23.37	22.32	21.55	24.0	23.0	22.0
		1880.0	23.42	22.45	21.64	24.0	23.0	22.0
		1850.7	23.35	22.47	21.54	24.0	23.0	22.0
	3RB_0	1909.3	23.33	22.27	21.53	24.0	23.0	22.0
		1880.0	23.32	22.38	21.56	24.0	23.0	22.0
		1850.7	23.32	22.39	21.46	24.0	23.0	22.0
	6RB_0	1909.3	22.35	21.40	20.28	23.0	22.0	21.0
		1880.0	22.37	21.52	20.35	23.0	22.0	21.0
		1850.7	22.37	21.44	20.27	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	23.26	22.49	21.42	24.0	23.0	22.0
		1880.0	23.29	22.58	21.56	24.0	23.0	22.0
		1851.5	23.29	22.71	21.51	24.0	23.0	22.0
	1RB_7	1908.5	23.44	22.66	21.64	24.0	23.0	22.0
		1880.0	23.41	22.76	21.76	24.0	23.0	22.0
		1851.5	23.33	22.86	21.66	24.0	23.0	22.0
	1RB_0	1908.5	23.29	22.56	21.49	24.0	23.0	22.0
		1880.0	23.30	22.63	21.46	24.0	23.0	22.0
		1851.5	23.28	22.69	21.47	24.0	23.0	22.0
	8RB_7	1908.5	22.30	21.40	20.32	23.0	22.0	21.0
		1880.0	22.37	21.42	20.37	23.0	22.0	21.0
		1851.5	22.36	21.40	20.39	23.0	22.0	21.0
	8RB_4	1908.5	22.35	21.44	20.34	23.0	22.0	21.0
		1880.0	22.42	21.48	20.42	23.0	22.0	21.0
		1851.5	22.37	21.42	20.38	23.0	22.0	21.0
	8RB_0	1908.5	22.34	21.45	20.31	23.0	22.0	21.0
		1880.0	22.36	21.50	20.42	23.0	22.0	21.0
		1851.5	22.37	21.39	20.37	23.0	22.0	21.0
	15RB_0	1908.5	22.36	21.35	20.25	23.0	22.0	21.0
		1880.0	22.36	21.42	20.37	23.0	22.0	21.0
		1851.5	22.35	21.38	20.33	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	23.13	22.36	21.35	24.0	23.0	22.0
		1880.0	23.15	22.48	21.43	24.0	23.0	22.0
		1852.5	23.19	22.43	21.45	24.0	23.0	22.0
	1RB_12	1907.5	23.47	22.61	21.66	24.0	23.0	22.0
		1880.0	23.50	22.75	21.72	24.0	23.0	22.0
		1852.5	23.47	22.64	21.69	24.0	23.0	22.0
	1RB_0	1907.5	23.17	22.43	21.40	24.0	23.0	22.0
		1880.0	23.15	22.49	21.44	24.0	23.0	22.0
		1852.5	23.21	22.43	21.50	24.0	23.0	22.0
	12RB_13	1907.5	22.28	21.31	20.23	23.0	22.0	21.0
		1880.0	22.35	21.38	20.30	23.0	22.0	21.0
		1852.5	22.37	21.37	20.35	23.0	22.0	21.0
	12RB_6	1907.5	22.38	21.38	20.30	23.0	22.0	21.0
		1880.0	22.42	21.45	20.37	23.0	22.0	21.0
		1852.5	22.45	21.44	20.39	23.0	22.0	21.0
	12RB_0	1907.5	22.38	21.36	20.33	23.0	22.0	21.0
		1880.0	22.38	21.41	20.34	23.0	22.0	21.0
		1852.5	22.38	21.41	20.34	23.0	22.0	21.0
	25RB_0	1907.5	22.33	21.38	20.29	23.0	22.0	21.0
		1880.0	22.40	21.41	20.30	23.0	22.0	21.0
		1852.5	22.38	21.39	20.36	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	23.24	22.55	21.45	24.0	23.0	22.0
		1880.0	23.28	22.60	21.55	24.0	23.0	22.0
		1855.0	23.26	22.66	21.58	24.0	23.0	22.0
	1RB_24	1905.0	23.42	22.71	21.66	24.0	23.0	22.0
		1880.0	23.40	22.79	21.67	24.0	23.0	22.0
		1855.0	23.46	22.71	21.69	24.0	23.0	22.0
	1RB_0	1905.0	23.29	22.65	21.57	24.0	23.0	22.0
		1880.0	23.34	22.66	21.63	24.0	23.0	22.0
		1855.0	23.29	22.67	21.61	24.0	23.0	22.0
	25RB_25	1905.0	22.38	21.37	20.30	23.0	22.0	21.0
		1880.0	22.36	21.40	20.29	23.0	22.0	21.0
		1855.0	22.44	21.46	20.44	23.0	22.0	21.0
	25RB_12	1905.0	22.46	21.43	20.35	23.0	22.0	21.0
		1880.0	22.43	21.44	20.39	23.0	22.0	21.0
		1855.0	22.41	21.46	20.39	23.0	22.0	21.0
	25RB_0	1905.0	22.44	21.43	20.39	23.0	22.0	21.0
		1880.0	22.43	21.48	20.39	23.0	22.0	21.0
		1855.0	22.41	21.44	20.43	23.0	22.0	21.0
	50RB_0	1905.0	22.46	21.49	20.36	23.0	22.0	21.0
		1880.0	22.43	21.43	20.35	23.0	22.0	21.0
		1855.0	22.41	21.44	20.43	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	23.17	22.40	21.29	24.0	23.0	22.0
		1880.0	23.18	22.50	21.35	24.0	23.0	22.0
		1857.5	23.16	22.62	21.30	24.0	23.0	22.0
	1RB_37	1902.5	23.31	22.58	21.45	24.0	23.0	22.0
		1880.0	23.29	22.63	21.51	24.0	23.0	22.0
		1857.5	23.32	22.75	21.46	24.0	23.0	22.0
	1RB_0	1902.5	23.19	22.51	21.32	24.0	23.0	22.0
		1880.0	23.22	22.60	21.32	24.0	23.0	22.0
		1857.5	23.21	22.63	21.35	24.0	23.0	22.0
	36RB_38	1902.5	22.38	21.34	20.34	23.0	22.0	21.0
		1880.0	22.38	21.38	20.35	23.0	22.0	21.0
		1857.5	22.45	21.39	20.44	23.0	22.0	21.0
	36RB_19	1902.5	22.41	21.38	20.39	23.0	22.0	21.0
		1880.0	22.44	21.35	20.38	23.0	22.0	21.0
		1857.5	22.47	21.40	20.39	23.0	22.0	21.0
	36RB_0	1902.5	22.39	21.42	20.35	23.0	22.0	21.0
		1880.0	22.42	21.42	20.40	23.0	22.0	21.0
		1857.5	22.42	21.39	20.38	23.0	22.0	21.0
	75RB_0	1902.5	22.39	21.40	20.34	23.0	22.0	21.0
		1880.0	22.38	21.42	20.34	23.0	22.0	21.0
		1857.5	22.42	21.41	20.35	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	22.97	22.23	21.32	24.0	23.0	22.0
		1880.0	22.97	22.36	21.31	24.0	23.0	22.0
		1860.0	22.98	22.32	21.25	24.0	23.0	22.0
	1RB_50	1900.0	23.31	22.62	21.75	24.0	23.0	22.0
		1880.0	23.41	22.68	21.73	24.0	23.0	22.0
		1860.0	23.37	22.66	21.67	24.0	23.0	22.0
	1RB_0	1900.0	23.04	22.37	21.33	24.0	23.0	22.0
		1880.0	23.08	22.44	21.39	24.0	23.0	22.0
		1860.0	23.08	22.33	21.28	24.0	23.0	22.0
	50RB_50	1900.0	22.33	21.34	20.35	23.0	22.0	21.0
		1880.0	22.32	21.33	20.31	23.0	22.0	21.0
		1860.0	22.37	21.40	20.38	23.0	22.0	21.0
	50RB_25	1900.0	22.38	21.41	20.38	23.0	22.0	21.0
		1880.0	22.42	21.41	20.38	23.0	22.0	21.0
		1860.0	22.42	21.46	20.40	23.0	22.0	21.0
	50RB_0	1900.0	22.38	21.41	20.35	23.0	22.0	21.0
		1880.0	22.38	21.40	20.39	23.0	22.0	21.0
		1860.0	22.41	21.40	20.34	23.0	22.0	21.0
	100RB_0	1900.0	22.39	21.33	20.31	23.0	22.0	21.0
		1880.0	22.37	21.36	20.33	23.0	22.0	21.0
		1860.0	22.41	21.44	20.39	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	22.85	22.15	21.00	24.0	23.0	22.0
		1880.0	22.92	22.31	21.15	24.0	23.0	22.0
		1850.7	22.90	22.26	21.17	24.0	23.0	22.0
	1RB_3	1909.3	23.02	22.25	21.14	24.0	23.0	22.0
		1880.0	23.07	22.46	21.25	24.0	23.0	22.0
		1850.7	23.03	22.37	21.34	24.0	23.0	22.0
	1RB_0	1909.3	22.84	22.12	21.06	24.0	23.0	22.0
		1880.0	22.94	22.33	21.19	24.0	23.0	22.0
		1850.7	22.92	22.29	21.16	24.0	23.0	22.0
	3RB_3	1909.3	23.00	21.91	21.10	24.0	23.0	22.0
		1880.0	23.02	22.01	21.21	24.0	23.0	22.0
		1850.7	22.98	22.05	21.19	24.0	23.0	22.0
	3RB_1	1909.3	23.03	21.94	21.08	24.0	23.0	22.0
		1880.0	23.08	22.11	21.23	24.0	23.0	22.0
		1850.7	23.05	22.14	21.19	24.0	23.0	22.0
	3RB_0	1909.3	22.98	21.93	21.03	24.0	23.0	22.0
		1880.0	23.03	21.99	21.23	24.0	23.0	22.0
		1850.7	23.03	22.09	21.15	24.0	23.0	22.0
	6RB_0	1909.3	22.02	21.08	19.97	23.0	22.0	21.0
		1880.0	22.07	21.23	20.00	23.0	22.0	21.0
		1850.7	22.03	21.17	19.99	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	22.93	22.12	21.07	24.0	23.0	22.0
		1880.0	22.96	22.18	21.25	24.0	23.0	22.0
		1851.5	23.00	22.21	21.14	24.0	23.0	22.0
	1RB_7	1908.5	23.07	22.29	21.19	24.0	23.0	22.0
		1880.0	23.17	22.38	21.42	24.0	23.0	22.0
		1851.5	23.04	22.42	21.25	24.0	23.0	22.0
	1RB_0	1908.5	22.90	22.10	21.17	24.0	23.0	22.0
		1880.0	22.95	22.24	21.26	24.0	23.0	22.0
		1851.5	22.96	22.22	21.12	24.0	23.0	22.0
	8RB_7	1908.5	22.00	21.09	19.94	23.0	22.0	21.0
		1880.0	22.07	21.14	20.02	23.0	22.0	21.0
		1851.5	22.02	21.08	20.07	23.0	22.0	21.0
	8RB_4	1908.5	22.01	21.12	19.97	23.0	22.0	21.0
		1880.0	22.08	21.14	20.10	23.0	22.0	21.0
		1851.5	22.07	21.12	20.12	23.0	22.0	21.0
	8RB_0	1908.5	21.98	21.10	20.00	23.0	22.0	21.0
		1880.0	22.04	21.15	20.01	23.0	22.0	21.0
		1851.5	22.07	21.11	20.10	23.0	22.0	21.0
	15RB_0	1908.5	21.99	21.05	19.91	23.0	22.0	21.0
		1880.0	22.03	21.08	19.96	23.0	22.0	21.0
		1851.5	22.09	21.08	20.00	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	22.78	22.09	21.06	24.0	23.0	22.0
		1880.0	22.87	22.16	21.18	24.0	23.0	22.0
		1852.5	22.91	22.15	21.17	24.0	23.0	22.0
	1RB_12	1907.5	23.13	22.41	21.32	24.0	23.0	22.0
		1880.0	23.16	22.48	21.43	24.0	23.0	22.0
		1852.5	23.26	22.33	21.39	24.0	23.0	22.0
	1RB_0	1907.5	22.81	22.21	21.11	24.0	23.0	22.0
		1880.0	22.88	22.20	21.18	24.0	23.0	22.0
		1852.5	22.90	22.15	21.21	24.0	23.0	22.0
	12RB_13	1907.5	21.95	20.91	19.90	23.0	22.0	21.0
		1880.0	22.04	21.03	19.99	23.0	22.0	21.0
		1852.5	22.06	21.05	20.06	23.0	22.0	21.0
	12RB_6	1907.5	22.05	21.01	20.00	23.0	22.0	21.0
		1880.0	22.12	21.10	20.07	23.0	22.0	21.0
		1852.5	22.09	21.10	20.06	23.0	22.0	21.0
	12RB_0	1907.5	22.06	20.98	20.01	23.0	22.0	21.0
		1880.0	22.04	21.03	20.00	23.0	22.0	21.0
		1852.5	22.03	21.07	20.01	23.0	22.0	21.0
	25RB_0	1907.5	22.04	21.00	19.93	23.0	22.0	21.0
		1880.0	22.07	21.07	19.96	23.0	22.0	21.0
		1852.5	22.07	21.09	20.01	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	22.88	22.14	21.08	24.0	23.0	22.0
		1880.0	22.93	22.34	21.10	24.0	23.0	22.0
		1855.0	22.99	22.39	21.18	24.0	23.0	22.0
	1RB_24	1905.0	23.08	22.32	21.27	24.0	23.0	22.0
		1880.0	23.05	22.39	21.26	24.0	23.0	22.0
		1855.0	23.07	22.47	21.31	24.0	23.0	22.0
	1RB_0	1905.0	22.94	22.32	21.08	24.0	23.0	22.0
		1880.0	22.96	22.33	21.21	24.0	23.0	22.0
		1855.0	22.99	22.39	21.21	24.0	23.0	22.0
	25RB_25	1905.0	22.05	21.06	19.99	23.0	22.0	21.0
		1880.0	22.08	21.10	19.98	23.0	22.0	21.0
		1855.0	22.14	21.12	20.10	23.0	22.0	21.0
	25RB_12	1905.0	22.07	21.09	20.03	23.0	22.0	21.0
		1880.0	22.12	21.13	20.07	23.0	22.0	21.0
		1855.0	22.07	21.16	20.08	23.0	22.0	21.0
	25RB_0	1905.0	22.10	21.08	20.07	23.0	22.0	21.0
		1880.0	22.12	21.14	20.06	23.0	22.0	21.0
		1855.0	22.12	21.11	20.11	23.0	22.0	21.0
	50RB_0	1905.0	22.15	21.09	20.02	23.0	22.0	21.0
		1880.0	22.11	21.14	20.04	23.0	22.0	21.0
		1855.0	22.13	21.15	20.10	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	22.81	22.04	20.95	24.0	23.0	22.0
		1880.0	22.85	22.21	21.05	24.0	23.0	22.0
		1857.5	22.90	22.28	21.16	24.0	23.0	22.0
	1RB_37	1902.5	23.00	22.28	21.13	24.0	23.0	22.0
		1880.0	22.96	22.40	21.20	24.0	23.0	22.0
		1857.5	23.03	22.45	21.31	24.0	23.0	22.0
	1RB_0	1902.5	22.86	22.15	20.99	24.0	23.0	22.0
		1880.0	22.95	22.31	21.12	24.0	23.0	22.0
		1857.5	22.95	22.35	21.24	24.0	23.0	22.0
	36RB_38	1902.5	22.03	21.01	19.96	23.0	22.0	21.0
		1880.0	22.06	21.06	20.04	23.0	22.0	21.0
		1857.5	22.09	21.08	20.10	23.0	22.0	21.0
	36RB_19	1902.5	22.09	21.06	20.04	23.0	22.0	21.0
		1880.0	22.12	21.08	20.03	23.0	22.0	21.0
		1857.5	22.10	21.11	20.08	23.0	22.0	21.0
	36RB_0	1902.5	22.08	21.06	20.04	23.0	22.0	21.0
		1880.0	22.11	21.10	20.04	23.0	22.0	21.0
		1857.5	22.11	21.13	20.08	23.0	22.0	21.0
	75RB_0	1902.5	22.10	21.05	19.98	23.0	22.0	21.0
		1880.0	22.06	21.06	20.00	23.0	22.0	21.0
		1857.5	22.09	21.10	20.09	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	22.65	21.98	20.88	24.0	23.0	22.0
		1880.0	22.67	22.05	20.86	24.0	23.0	22.0
		1860.0	22.65	22.00	20.90	24.0	23.0	22.0
	1RB_50	1900.0	23.03	22.42	21.25	24.0	23.0	22.0
		1880.0	23.11	22.39	21.24	24.0	23.0	22.0
		1860.0	23.07	22.35	21.19	24.0	23.0	22.0
	1RB_0	1900.0	22.77	22.18	21.00	24.0	23.0	22.0
		1880.0	22.73	22.16	20.94	24.0	23.0	22.0
		1860.0	22.75	22.03	20.86	24.0	23.0	22.0
	50RB_50	1900.0	22.08	21.05	20.03	23.0	22.0	21.0
		1880.0	21.99	21.01	19.96	23.0	22.0	21.0
		1860.0	22.10	21.11	20.12	23.0	22.0	21.0
	50RB_25	1900.0	22.07	21.09	20.04	23.0	22.0	21.0
		1880.0	22.06	21.15	20.04	23.0	22.0	21.0
		1860.0	22.13	21.11	20.13	23.0	22.0	21.0
	50RB_0	1900.0	22.10	21.10	20.05	23.0	22.0	21.0
		1880.0	22.14	21.05	20.06	23.0	22.0	21.0
		1860.0	22.10	21.12	20.06	23.0	22.0	21.0
	100RB_0	1900.0	22.05	21.07	19.97	23.0	22.0	21.0
		1880.0	22.03	21.06	19.99	23.0	22.0	21.0
		1860.0	22.11	21.14	20.08	23.0	22.0	21.0



Top Antenna - Reduced power level 1								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	18.25	18.51	18.50	19.0	19.0	19.0
		1880.0	18.30	18.52	18.49	19.0	19.0	19.0
		1850.7	18.28	18.57	18.47	19.0	19.0	19.0
	1RB_3	1909.3	18.35	18.63	18.54	19.0	19.0	19.0
		1880.0	18.44	18.61	18.67	19.0	19.0	19.0
		1850.7	18.34	18.77	18.56	19.0	19.0	19.0
	1RB_0	1909.3	18.24	18.48	18.52	19.0	19.0	19.0
		1880.0	18.28	18.53	18.50	19.0	19.0	19.0
		1850.7	18.21	18.55	18.49	19.0	19.0	19.0
	3RB_3	1909.3	18.34	18.41	18.44	19.0	19.0	19.0
		1880.0	18.39	18.46	18.51	19.0	19.0	19.0
		1850.7	18.35	18.44	18.52	19.0	19.0	19.0
	3RB_1	1909.3	18.39	18.42	18.52	19.0	19.0	19.0
		1880.0	18.41	18.45	18.46	19.0	19.0	19.0
		1850.7	18.41	18.46	18.62	19.0	19.0	19.0
	3RB_0	1909.3	18.34	18.36	18.43	19.0	19.0	19.0
		1880.0	18.38	18.42	18.45	19.0	19.0	19.0
		1850.7	18.38	18.39	18.50	19.0	19.0	19.0
	6RB_0	1909.3	18.33	18.36	18.39	19.0	19.0	19.0
		1880.0	18.38	18.45	18.45	19.0	19.0	19.0
		1850.7	18.36	18.47	18.36	19.0	19.0	19.0



Top Antenna - Reduced power level 1								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	18.31	18.71	18.59	19.0	19.0	19.0
		1880.0	18.33	18.68	18.59	19.0	19.0	19.0
		1851.5	18.30	18.64	18.64	19.0	19.0	19.0
	1RB_7	1908.5	18.48	18.80	18.76	19.0	19.0	19.0
		1880.0	18.58	18.90	18.69	19.0	19.0	19.0
		1851.5	18.58	18.81	18.85	19.0	19.0	19.0
	1RB_0	1908.5	18.35	18.78	18.58	19.0	19.0	19.0
		1880.0	18.31	18.72	18.60	19.0	19.0	19.0
		1851.5	18.34	18.66	18.64	19.0	19.0	19.0
	8RB_7	1908.5	18.32	18.38	18.38	19.0	19.0	19.0
		1880.0	18.35	18.42	18.43	19.0	19.0	19.0
		1851.5	18.33	18.46	18.41	19.0	19.0	19.0
	8RB_4	1908.5	18.33	18.45	18.38	19.0	19.0	19.0
		1880.0	18.39	18.47	18.47	19.0	19.0	19.0
		1851.5	18.40	18.50	18.46	19.0	19.0	19.0
	8RB_0	1908.5	18.31	18.42	18.36	19.0	19.0	19.0
		1880.0	18.37	18.49	18.45	19.0	19.0	19.0
		1851.5	18.35	18.50	18.43	19.0	19.0	19.0
	15RB_0	1908.5	18.31	18.38	18.39	19.0	19.0	19.0
		1880.0	18.32	18.39	18.38	19.0	19.0	19.0
		1851.5	18.32	18.44	18.35	19.0	19.0	19.0



Top Antenna - Reduced power level 1								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	18.16	18.51	18.39	19.0	19.0	19.0
		1880.0	18.23	18.64	18.45	19.0	19.0	19.0
		1852.5	18.22	18.65	18.42	19.0	19.0	19.0
	1RB_12	1907.5	18.46	18.85	18.70	19.0	19.0	19.0
		1880.0	18.44	18.95	18.73	19.0	19.0	19.0
		1852.5	18.37	18.92	18.76	19.0	19.0	19.0
	1RB_0	1907.5	18.20	18.55	18.38	19.0	19.0	19.0
		1880.0	18.24	18.69	18.45	19.0	19.0	19.0
		1852.5	18.21	18.64	18.47	19.0	19.0	19.0
	12RB_13	1907.5	18.26	18.29	18.36	19.0	19.0	19.0
		1880.0	18.30	18.34	18.35	19.0	19.0	19.0
		1852.5	18.28	18.30	18.34	19.0	19.0	19.0
	12RB_6	1907.5	18.38	18.36	18.46	19.0	19.0	19.0
		1880.0	18.41	18.41	18.50	19.0	19.0	19.0
		1852.5	18.41	18.42	18.50	19.0	19.0	19.0
	12RB_0	1907.5	18.34	18.39	18.39	19.0	19.0	19.0
		1880.0	18.35	18.35	18.41	19.0	19.0	19.0
		1852.5	18.32	18.35	18.37	19.0	19.0	19.0
	25RB_0	1907.5	18.29	18.33	18.35	19.0	19.0	19.0
		1880.0	18.37	18.40	18.35	19.0	19.0	19.0
		1852.5	18.32	18.38	18.35	19.0	19.0	19.0



Top Antenna - Reduced power level 1								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	18.27	18.58	18.41	19.0	19.0	19.0
		1880.0	18.30	18.74	18.51	19.0	19.0	19.0
		1855.0	18.30	18.70	18.56	19.0	19.0	19.0
	1RB_24	1905.0	18.45	18.73	18.58	19.0	19.0	19.0
		1880.0	18.46	18.85	18.65	19.0	19.0	19.0
		1855.0	18.44	18.73	18.67	19.0	19.0	19.0
	1RB_0	1905.0	18.33	18.72	18.45	19.0	19.0	19.0
		1880.0	18.35	18.78	18.52	19.0	19.0	19.0
		1855.0	18.33	18.73	18.62	19.0	19.0	19.0
	25RB_25	1905.0	18.30	18.34	18.35	19.0	19.0	19.0
		1880.0	18.32	18.33	18.35	19.0	19.0	19.0
		1855.0	18.33	18.39	18.38	19.0	19.0	19.0
	25RB_12	1905.0	18.39	18.41	18.46	19.0	19.0	19.0
		1880.0	18.40	18.43	18.45	19.0	19.0	19.0
		1855.0	18.40	18.45	18.39	19.0	19.0	19.0
	25RB_0	1905.0	18.39	18.42	18.46	19.0	19.0	19.0
		1880.0	18.43	18.39	18.40	19.0	19.0	19.0
		1855.0	18.44	18.42	18.40	19.0	19.0	19.0
	50RB_0	1905.0	18.38	18.40	18.39	19.0	19.0	19.0
		1880.0	18.35	18.41	18.39	19.0	19.0	19.0
		1855.0	18.35	18.37	18.39	19.0	19.0	19.0



Top Antenna - Reduced power level 1								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	18.19	18.62	18.43	19.0	19.0	19.0
		1880.0	18.23	18.62	18.48	19.0	19.0	19.0
		1857.5	18.20	18.58	18.41	19.0	19.0	19.0
	1RB_37	1902.5	18.34	18.77	18.62	19.0	19.0	19.0
		1880.0	18.36	18.72	18.58	19.0	19.0	19.0
		1857.5	18.36	18.74	18.45	19.0	19.0	19.0
	1RB_0	1902.5	18.28	18.68	18.54	19.0	19.0	19.0
		1880.0	18.26	18.64	18.44	19.0	19.0	19.0
		1857.5	18.29	18.54	18.37	19.0	19.0	19.0
	36RB_38	1902.5	18.29	18.30	18.34	19.0	19.0	19.0
		1880.0	18.32	18.35	18.35	19.0	19.0	19.0
		1857.5	18.33	18.39	18.43	19.0	19.0	19.0
	36RB_19	1902.5	18.38	18.41	18.42	19.0	19.0	19.0
		1880.0	18.43	18.41	18.43	19.0	19.0	19.0
		1857.5	18.37	18.39	18.41	19.0	19.0	19.0
	36RB_0	1902.5	18.37	18.39	18.39	19.0	19.0	19.0
		1880.0	18.40	18.40	18.41	19.0	19.0	19.0
		1857.5	18.36	18.39	18.44	19.0	19.0	19.0
	75RB_0	1902.5	18.32	18.38	18.37	19.0	19.0	19.0
		1880.0	18.38	18.38	18.38	19.0	19.0	19.0
		1857.5	18.34	18.39	18.40	19.0	19.0	19.0



Top Antenna - Reduced power level 1								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	18.04	18.33	18.29	19.0	19.0	19.0
		1880.0	18.05	18.31	18.35	19.0	19.0	19.0
		1860.0	18.03	18.33	18.35	19.0	19.0	19.0
	1RB_50	1900.0	18.44	18.75	18.67	19.0	19.0	19.0
		1880.0	18.45	18.69	18.79	19.0	19.0	19.0
		1860.0	18.43	18.69	18.77	19.0	19.0	19.0
	1RB_0	1900.0	18.09	18.46	18.36	19.0	19.0	19.0
		1880.0	18.11	18.37	18.44	19.0	19.0	19.0
		1860.0	18.12	18.43	18.41	19.0	19.0	19.0
	50RB_50	1900.0	18.29	18.34	18.39	19.0	19.0	19.0
		1880.0	18.25	18.26	18.25	19.0	19.0	19.0
		1860.0	18.34	18.40	18.39	19.0	19.0	19.0
	50RB_25	1900.0	18.38	18.44	18.43	19.0	19.0	19.0
		1880.0	18.42	18.44	18.43	19.0	19.0	19.0
		1860.0	18.39	18.43	18.42	19.0	19.0	19.0
	50RB_0	1900.0	18.36	18.43	18.43	19.0	19.0	19.0
		1880.0	18.38	18.43	18.41	19.0	19.0	19.0
		1860.0	18.38	18.41	18.44	19.0	19.0	19.0
	100RB_0	1900.0	18.36	18.39	18.41	19.0	19.0	19.0
		1880.0	18.33	18.37	18.38	19.0	19.0	19.0
		1860.0	18.39	18.43	18.41	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	17.21	17.55	17.50	18.0	18.0	18.0
		1880.0	17.30	17.51	17.53	18.0	18.0	18.0
		1850.7	17.32	17.56	17.48	18.0	18.0	18.0
	1RB_3	1909.3	17.35	17.58	17.50	18.0	18.0	18.0
		1880.0	17.47	17.60	17.67	18.0	18.0	18.0
		1850.7	17.32	17.78	17.51	18.0	18.0	18.0
	1RB_0	1909.3	17.19	17.44	17.48	18.0	18.0	18.0
		1880.0	17.31	17.50	17.46	18.0	18.0	18.0
		1850.7	17.20	17.53	17.47	18.0	18.0	18.0
	3RB_3	1909.3	17.38	17.45	17.44	18.0	18.0	18.0
		1880.0	17.35	17.44	17.55	18.0	18.0	18.0
		1850.7	17.31	17.49	17.52	18.0	18.0	18.0
	3RB_1	1909.3	17.41	17.40	17.56	18.0	18.0	18.0
		1880.0	17.42	17.40	17.41	18.0	18.0	18.0
		1850.7	17.42	17.41	17.63	18.0	18.0	18.0
	3RB_0	1909.3	17.32	17.35	17.44	18.0	18.0	18.0
		1880.0	17.39	17.43	17.45	18.0	18.0	18.0
		1850.7	17.33	17.39	17.55	18.0	18.0	18.0
	6RB_0	1909.3	17.33	17.39	17.41	18.0	18.0	18.0
		1880.0	17.37	17.46	17.49	18.0	18.0	18.0
		1850.7	17.36	17.47	17.39	18.0	18.0	18.0



Top Antenna - Reduced power level 2								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	17.34	17.74	17.64	18.0	18.0	18.0
		1880.0	17.29	17.70	17.60	18.0	18.0	18.0
		1851.5	17.35	17.60	17.68	18.0	18.0	18.0
	1RB_7	1908.5	17.45	17.84	17.72	18.0	18.0	18.0
		1880.0	17.56	17.93	17.73	18.0	18.0	18.0
		1851.5	17.55	17.78	17.85	18.0	18.0	18.0
	1RB_0	1908.5	17.35	17.82	17.61	18.0	18.0	18.0
		1880.0	17.31	17.69	17.56	18.0	18.0	18.0
		1851.5	17.36	17.65	17.65	18.0	18.0	18.0
	8RB_7	1908.5	17.32	17.38	17.43	18.0	18.0	18.0
		1880.0	17.33	17.46	17.47	18.0	18.0	18.0
		1851.5	17.34	17.50	17.37	18.0	18.0	18.0
	8RB_4	1908.5	17.29	17.49	17.35	18.0	18.0	18.0
		1880.0	17.42	17.44	17.43	18.0	18.0	18.0
		1851.5	17.40	17.47	17.44	18.0	18.0	18.0
	8RB_0	1908.5	17.32	17.38	17.31	18.0	18.0	18.0
		1880.0	17.42	17.46	17.44	18.0	18.0	18.0
		1851.5	17.31	17.48	17.39	18.0	18.0	18.0
	15RB_0	1908.5	17.32	17.33	17.34	18.0	18.0	18.0
		1880.0	17.31	17.39	17.37	18.0	18.0	18.0
		1851.5	17.27	17.43	17.34	18.0	18.0	18.0



Top Antenna - Reduced power level 2								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	17.14	17.47	17.42	18.0	18.0	18.0
		1880.0	17.27	17.59	17.48	18.0	18.0	18.0
		1852.5	17.27	17.64	17.46	18.0	18.0	18.0
	1RB_12	1907.5	17.46	17.81	17.68	18.0	18.0	18.0
		1880.0	17.46	17.97	17.71	18.0	18.0	18.0
		1852.5	17.36	17.91	17.74	18.0	18.0	18.0
	1RB_0	1907.5	17.25	17.55	17.41	18.0	18.0	18.0
		1880.0	17.21	17.68	17.49	18.0	18.0	18.0
		1852.5	17.19	17.63	17.42	18.0	18.0	18.0
	12RB_13	1907.5	17.25	17.34	17.40	18.0	18.0	18.0
		1880.0	17.27	17.35	17.36	18.0	18.0	18.0
		1852.5	17.29	17.31	17.34	18.0	18.0	18.0
	12RB_6	1907.5	17.42	17.32	17.42	18.0	18.0	18.0
		1880.0	17.38	17.41	17.48	18.0	18.0	18.0
		1852.5	17.38	17.45	17.52	18.0	18.0	18.0
	12RB_0	1907.5	17.38	17.36	17.43	18.0	18.0	18.0
		1880.0	17.32	17.33	17.42	18.0	18.0	18.0
		1852.5	17.36	17.32	17.38	18.0	18.0	18.0
	25RB_0	1907.5	17.32	17.29	17.40	18.0	18.0	18.0
		1880.0	17.33	17.44	17.32	18.0	18.0	18.0
		1852.5	17.32	17.40	17.40	18.0	18.0	18.0



Top Antenna - Reduced power level 2								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	17.23	17.55	17.40	18.0	18.0	18.0
		1880.0	17.35	17.70	17.48	18.0	18.0	18.0
		1855.0	17.34	17.68	17.53	18.0	18.0	18.0
	1RB_24	1905.0	17.42	17.71	17.53	18.0	18.0	18.0
		1880.0	17.47	17.87	17.60	18.0	18.0	18.0
		1855.0	17.44	17.76	17.68	18.0	18.0	18.0
	1RB_0	1905.0	17.33	17.70	17.43	18.0	18.0	18.0
		1880.0	17.32	17.82	17.54	18.0	18.0	18.0
		1855.0	17.30	17.75	17.62	18.0	18.0	18.0
	25RB_25	1905.0	17.35	17.31	17.31	18.0	18.0	18.0
		1880.0	17.29	17.30	17.39	18.0	18.0	18.0
		1855.0	17.35	17.41	17.38	18.0	18.0	18.0
	25RB_12	1905.0	17.40	17.36	17.45	18.0	18.0	18.0
		1880.0	17.36	17.41	17.42	18.0	18.0	18.0
		1855.0	17.40	17.46	17.35	18.0	18.0	18.0
	25RB_0	1905.0	17.42	17.44	17.44	18.0	18.0	18.0
		1880.0	17.46	17.41	17.36	18.0	18.0	18.0
		1855.0	17.48	17.46	17.35	18.0	18.0	18.0
	50RB_0	1905.0	17.35	17.38	17.41	18.0	18.0	18.0
		1880.0	17.33	17.36	17.36	18.0	18.0	18.0
		1855.0	17.34	17.37	17.39	18.0	18.0	18.0



Top Antenna - Reduced power level 2								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	17.23	17.58	17.47	18.0	18.0	18.0
		1880.0	17.20	17.59	17.47	18.0	18.0	18.0
		1857.5	17.18	17.62	17.38	18.0	18.0	18.0
	1RB_37	1902.5	17.35	17.80	17.61	18.0	18.0	18.0
		1880.0	17.34	17.73	17.57	18.0	18.0	18.0
		1857.5	17.37	17.75	17.47	18.0	18.0	18.0
	1RB_0	1902.5	17.30	17.70	17.56	18.0	18.0	18.0
		1880.0	17.29	17.65	17.47	18.0	18.0	18.0
		1857.5	17.33	17.59	17.34	18.0	18.0	18.0
	36RB_38	1902.5	17.31	17.29	17.37	18.0	18.0	18.0
		1880.0	17.32	17.33	17.30	18.0	18.0	18.0
		1857.5	17.34	17.43	17.42	18.0	18.0	18.0
	36RB_19	1902.5	17.38	17.41	17.44	18.0	18.0	18.0
		1880.0	17.45	17.41	17.46	18.0	18.0	18.0
		1857.5	17.32	17.43	17.41	18.0	18.0	18.0
	36RB_0	1902.5	17.33	17.37	17.42	18.0	18.0	18.0
		1880.0	17.36	17.44	17.42	18.0	18.0	18.0
		1857.5	17.41	17.41	17.48	18.0	18.0	18.0
	75RB_0	1902.5	17.28	17.40	17.32	18.0	18.0	18.0
		1880.0	17.33	17.39	17.35	18.0	18.0	18.0
		1857.5	17.38	17.38	17.43	18.0	18.0	18.0



Top Antenna - Reduced power level 2								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	17.05	17.33	17.26	18.0	18.0	18.0
		1880.0	17.04	17.33	17.39	18.0	18.0	18.0
		1860.0	17.04	17.30	17.30	18.0	18.0	18.0
	1RB_50	1900.0	17.43	17.78	17.63	18.0	18.0	18.0
		1880.0	17.44	17.66	17.80	18.0	18.0	18.0
		1860.0	17.42	17.73	17.77	18.0	18.0	18.0
	1RB_0	1900.0	17.04	17.43	17.40	18.0	18.0	18.0
		1880.0	17.13	17.35	17.42	18.0	18.0	18.0
		1860.0	17.13	17.40	17.43	18.0	18.0	18.0
	50RB_50	1900.0	17.31	17.31	17.41	18.0	18.0	18.0
		1880.0	17.24	17.23	17.22	18.0	18.0	18.0
		1860.0	17.36	17.35	17.34	18.0	18.0	18.0
	50RB_25	1900.0	17.37	17.40	17.45	18.0	18.0	18.0
		1880.0	17.39	17.48	17.46	18.0	18.0	18.0
		1860.0	17.35	17.46	17.37	18.0	18.0	18.0
	50RB_0	1900.0	17.35	17.43	17.44	18.0	18.0	18.0
		1880.0	17.33	17.40	17.44	18.0	18.0	18.0
		1860.0	17.41	17.43	17.42	18.0	18.0	18.0
	100RB_0	1900.0	17.38	17.41	17.37	18.0	18.0	18.0
		1880.0	17.34	17.40	17.39	18.0	18.0	18.0
		1860.0	17.39	17.47	17.42	18.0	18.0	18.0



Top Antenna - Reduced power level 3								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	22.24	22.49	21.46	23.0	23.0	22.0
		1880.0	22.32	22.66	21.57	23.0	23.0	22.0
		1850.7	22.29	22.57	21.58	23.0	23.0	22.0
	1RB_3	1909.3	22.38	22.70	21.55	23.0	23.0	22.0
		1880.0	22.42	22.80	21.67	23.0	23.0	22.0
		1850.7	22.42	22.74	21.67	23.0	23.0	22.0
	1RB_0	1909.3	22.25	22.56	21.43	23.0	23.0	22.0
		1880.0	22.31	22.65	21.59	23.0	23.0	22.0
		1850.7	22.29	22.56	21.59	23.0	23.0	22.0
	3RB_3	1909.3	22.30	22.30	21.45	23.0	23.0	22.0
		1880.0	22.37	22.31	21.56	23.0	23.0	22.0
		1850.7	22.36	22.36	21.55	23.0	23.0	22.0
	3RB_1	1909.3	22.39	22.33	21.53	23.0	23.0	22.0
		1880.0	22.47	22.38	21.63	23.0	23.0	22.0
		1850.7	22.43	22.42	21.56	23.0	23.0	22.0
	3RB_0	1909.3	22.35	22.32	21.46	23.0	23.0	22.0
		1880.0	22.37	22.34	21.64	23.0	23.0	22.0
		1850.7	22.38	22.38	21.49	23.0	23.0	22.0
	6RB_0	1909.3	22.36	21.44	20.32	23.0	22.0	21.0
		1880.0	22.45	21.50	20.37	23.0	22.0	21.0
		1850.7	22.39	21.51	20.30	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	22.30	22.43	21.37	23.0	23.0	22.0
		1880.0	22.35	22.59	21.54	23.0	23.0	22.0
		1851.5	22.33	22.61	21.48	23.0	23.0	22.0
	1RB_7	1908.5	22.44	22.51	21.51	23.0	23.0	22.0
		1880.0	22.56	22.76	21.61	23.0	23.0	22.0
		1851.5	22.49	22.79	21.78	23.0	23.0	22.0
	1RB_0	1908.5	22.34	22.51	21.39	23.0	23.0	22.0
		1880.0	22.36	22.64	21.53	23.0	23.0	22.0
		1851.5	22.34	22.51	21.46	23.0	23.0	22.0
	8RB_7	1908.5	22.33	21.43	20.33	23.0	22.0	21.0
		1880.0	22.40	21.45	20.45	23.0	22.0	21.0
		1851.5	22.37	21.44	20.37	23.0	22.0	21.0
	8RB_4	1908.5	22.41	21.46	20.37	23.0	22.0	21.0
		1880.0	22.39	21.46	20.45	23.0	22.0	21.0
		1851.5	22.35	21.47	20.41	23.0	22.0	21.0
	8RB_0	1908.5	22.37	21.44	20.36	23.0	22.0	21.0
		1880.0	22.38	21.44	20.43	23.0	22.0	21.0
		1851.5	22.38	21.44	20.38	23.0	22.0	21.0
	15RB_0	1908.5	22.39	21.35	20.27	23.0	22.0	21.0
		1880.0	22.39	21.44	20.32	23.0	22.0	21.0
		1851.5	22.37	21.42	20.29	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	22.18	22.48	21.44	23.0	23.0	22.0
		1880.0	22.26	22.48	21.49	23.0	23.0	22.0
		1852.5	22.22	22.51	21.42	23.0	23.0	22.0
	1RB_12	1907.5	22.41	22.74	21.73	23.0	23.0	22.0
		1880.0	22.53	22.74	21.79	23.0	23.0	22.0
		1852.5	22.58	22.82	21.67	23.0	23.0	22.0
	1RB_0	1907.5	22.22	22.52	21.49	23.0	23.0	22.0
		1880.0	22.29	22.55	21.51	23.0	23.0	22.0
		1852.5	22.26	22.50	21.32	23.0	23.0	22.0
	12RB_13	1907.5	22.30	21.33	20.27	23.0	22.0	21.0
		1880.0	22.38	21.40	20.32	23.0	22.0	21.0
		1852.5	22.37	21.40	20.38	23.0	22.0	21.0
	12RB_6	1907.5	22.44	21.41	20.37	23.0	22.0	21.0
		1880.0	22.43	21.46	20.39	23.0	22.0	21.0
		1852.5	22.41	21.42	20.38	23.0	22.0	21.0
	12RB_0	1907.5	22.41	21.36	20.34	23.0	22.0	21.0
		1880.0	22.36	21.42	20.33	23.0	22.0	21.0
		1852.5	22.39	21.39	20.36	23.0	22.0	21.0
	25RB_0	1907.5	22.38	21.36	20.31	23.0	22.0	21.0
		1880.0	22.38	21.39	20.34	23.0	22.0	21.0
		1852.5	22.41	21.42	20.37	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	22.28	22.52	21.56	23.0	23.0	22.0
		1880.0	22.33	22.56	21.56	23.0	23.0	22.0
		1855.0	22.32	22.61	21.56	23.0	23.0	22.0
	1RB_24	1905.0	22.45	22.68	21.70	23.0	23.0	22.0
		1880.0	22.48	22.73	21.67	23.0	23.0	22.0
		1855.0	22.50	22.73	21.67	23.0	23.0	22.0
	1RB_0	1905.0	22.37	22.56	21.65	23.0	23.0	22.0
		1880.0	22.40	22.65	21.60	23.0	23.0	22.0
		1855.0	22.35	22.73	21.47	23.0	23.0	22.0
	25RB_25	1905.0	22.38	21.41	20.34	23.0	22.0	21.0
		1880.0	22.43	21.43	20.36	23.0	22.0	21.0
		1855.0	22.46	21.45	20.47	23.0	22.0	21.0
	25RB_12	1905.0	22.44	21.44	20.39	23.0	22.0	21.0
		1880.0	22.42	21.45	20.42	23.0	22.0	21.0
		1855.0	22.42	21.49	20.44	23.0	22.0	21.0
	25RB_0	1905.0	22.45	21.47	20.43	23.0	22.0	21.0
		1880.0	22.48	21.48	20.44	23.0	22.0	21.0
		1855.0	22.49	21.47	20.43	23.0	22.0	21.0
	50RB_0	1905.0	22.50	21.48	20.41	23.0	22.0	21.0
		1880.0	22.44	21.47	20.34	23.0	22.0	21.0
		1855.0	22.50	21.47	20.48	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	22.19	22.51	21.39	23.0	23.0	22.0
		1880.0	22.23	22.58	21.49	23.0	23.0	22.0
		1857.5	22.26	22.60	21.51	23.0	23.0	22.0
	1RB_37	1902.5	22.39	22.67	21.53	23.0	23.0	22.0
		1880.0	22.38	22.68	21.64	23.0	23.0	22.0
		1857.5	22.38	22.71	21.66	23.0	23.0	22.0
	1RB_0	1902.5	22.25	22.60	21.48	23.0	23.0	22.0
		1880.0	22.29	22.64	21.57	23.0	23.0	22.0
		1857.5	22.34	22.62	21.60	23.0	23.0	22.0
	36RB_38	1902.5	22.36	21.37	20.33	23.0	22.0	21.0
		1880.0	22.38	21.38	20.31	23.0	22.0	21.0
		1857.5	22.44	21.43	20.43	23.0	22.0	21.0
	36RB_19	1902.5	22.45	21.40	20.38	23.0	22.0	21.0
		1880.0	22.43	21.45	20.39	23.0	22.0	21.0
		1857.5	22.43	21.44	20.39	23.0	22.0	21.0
	36RB_0	1902.5	22.40	21.43	20.35	23.0	22.0	21.0
		1880.0	22.39	21.45	20.38	23.0	22.0	21.0
		1857.5	22.41	21.41	20.40	23.0	22.0	21.0
	75RB_0	1902.5	22.41	21.42	20.36	23.0	22.0	21.0
		1880.0	22.39	21.39	20.31	23.0	22.0	21.0
		1857.5	22.40	21.42	20.39	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	22.00	22.30	21.19	23.0	23.0	22.0
		1880.0	22.02	22.27	21.14	23.0	23.0	22.0
		1860.0	22.05	22.41	21.28	23.0	23.0	22.0
	1RB_50	1900.0	22.45	22.63	21.62	23.0	23.0	22.0
		1880.0	22.40	22.62	21.53	23.0	23.0	22.0
		1860.0	22.44	22.76	21.72	23.0	23.0	22.0
	1RB_0	1900.0	22.10	22.43	21.28	23.0	23.0	22.0
		1880.0	22.11	22.38	21.24	23.0	23.0	22.0
		1860.0	22.10	22.45	21.26	23.0	23.0	22.0
	50RB_50	1900.0	22.39	21.39	20.29	23.0	22.0	21.0
		1880.0	22.36	21.38	20.29	23.0	22.0	21.0
		1860.0	22.43	21.45	20.42	23.0	22.0	21.0
	50RB_25	1900.0	22.47	21.45	20.35	23.0	22.0	21.0
		1880.0	22.45	21.47	20.38	23.0	22.0	21.0
		1860.0	22.44	21.47	20.43	23.0	22.0	21.0
	50RB_0	1900.0	22.42	21.43	20.37	23.0	22.0	21.0
		1880.0	22.39	21.45	20.39	23.0	22.0	21.0
		1860.0	22.43	21.43	20.40	23.0	22.0	21.0
	100RB_0	1900.0	22.38	21.36	20.33	23.0	22.0	21.0
		1880.0	22.34	21.42	20.35	23.0	22.0	21.0
		1860.0	22.36	21.41	20.39	23.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	20.67	20.86	20.69	21.5	21.5	21.5
		1880.0	20.73	21.06	20.85	21.5	21.5	21.5
		1850.7	20.70	21.00	20.90	21.5	21.5	21.5
	1RB_3	1909.3	20.82	20.96	20.81	21.5	21.5	21.5
		1880.0	20.83	21.19	20.99	21.5	21.5	21.5
		1850.7	20.82	21.11	21.01	21.5	21.5	21.5
	1RB_0	1909.3	20.70	20.87	20.68	21.5	21.5	21.5
		1880.0	20.76	20.96	20.88	21.5	21.5	21.5
		1850.7	20.70	21.01	20.93	21.5	21.5	21.5
	3RB_3	1909.3	20.80	20.75	20.78	21.5	21.5	21.5
		1880.0	20.81	20.84	20.95	21.5	21.5	21.5
		1850.7	20.83	20.87	20.90	21.5	21.5	21.5
	3RB_1	1909.3	20.85	20.81	20.90	21.5	21.5	21.5
		1880.0	20.92	20.90	21.00	21.5	21.5	21.5
		1850.7	20.90	20.92	20.99	21.5	21.5	21.5
	3RB_0	1909.3	20.79	20.76	20.84	21.5	21.5	21.5
		1880.0	20.86	20.82	20.91	21.5	21.5	21.5
		1850.7	20.82	20.82	20.93	21.5	21.5	21.5
	6RB_0	1909.3	20.85	20.86	20.22	21.5	21.5	21.0
		1880.0	20.85	20.91	20.30	21.5	21.5	21.0
		1850.7	20.79	20.90	20.36	21.5	21.5	21.0



Top Antenna - Reduced power level 5								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	20.71	20.91	20.87	21.5	21.5	21.5
		1880.0	20.75	21.08	20.92	21.5	21.5	21.5
		1851.5	20.73	21.08	20.82	21.5	21.5	21.5
	1RB_7	1908.5	20.91	21.11	21.03	21.5	21.5	21.5
		1880.0	20.95	21.21	21.17	21.5	21.5	21.5
		1851.5	20.96	21.28	20.94	21.5	21.5	21.5
	1RB_0	1908.5	20.75	21.02	20.92	21.5	21.5	21.5
		1880.0	20.75	21.06	20.95	21.5	21.5	21.5
		1851.5	20.73	21.06	20.75	21.5	21.5	21.5
	8RB_7	1908.5	20.76	20.75	20.20	21.5	21.5	21.0
		1880.0	20.77	20.85	20.32	21.5	21.5	21.0
		1851.5	20.79	20.86	20.30	21.5	21.5	21.0
	8RB_4	1908.5	20.79	20.78	20.28	21.5	21.5	21.0
		1880.0	20.79	20.90	20.32	21.5	21.5	21.0
		1851.5	20.84	20.90	20.32	21.5	21.5	21.0
	8RB_0	1908.5	20.76	20.78	20.27	21.5	21.5	21.0
		1880.0	20.81	20.90	20.33	21.5	21.5	21.0
		1851.5	20.78	20.85	20.35	21.5	21.5	21.0
	15RB_0	1908.5	20.78	20.77	20.29	21.5	21.5	21.0
		1880.0	20.82	20.80	20.31	21.5	21.5	21.0
		1851.5	20.78	20.79	20.30	21.5	21.5	21.0



Top Antenna - Reduced power level 5								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	20.62	20.87	20.78	21.5	21.5	21.5
		1880.0	20.68	20.89	20.82	21.5	21.5	21.5
		1852.5	20.69	21.00	20.84	21.5	21.5	21.5
	1RB_12	1907.5	21.00	21.11	21.17	21.5	21.5	21.5
		1880.0	20.95	21.24	21.19	21.5	21.5	21.5
		1852.5	20.91	21.23	21.14	21.5	21.5	21.5
	1RB_0	1907.5	20.67	20.94	20.87	21.5	21.5	21.5
		1880.0	20.69	20.97	20.84	21.5	21.5	21.5
		1852.5	20.70	20.93	20.86	21.5	21.5	21.5
	12RB_13	1907.5	20.74	20.69	20.26	21.5	21.5	21.0
		1880.0	20.77	20.79	20.28	21.5	21.5	21.0
		1852.5	20.76	20.83	20.35	21.5	21.5	21.0
	12RB_6	1907.5	20.83	20.77	20.34	21.5	21.5	21.0
		1880.0	20.91	20.82	20.37	21.5	21.5	21.0
		1852.5	20.85	20.87	20.38	21.5	21.5	21.0
	12RB_0	1907.5	20.81	20.78	20.33	21.5	21.5	21.0
		1880.0	20.77	20.79	20.32	21.5	21.5	21.0
		1852.5	20.78	20.82	20.30	21.5	21.5	21.0
	25RB_0	1907.5	20.78	20.77	20.25	21.5	21.5	21.0
		1880.0	20.80	20.83	20.28	21.5	21.5	21.0
		1852.5	20.77	20.81	20.30	21.5	21.5	21.0



Top Antenna - Reduced power level 5								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	20.74	21.00	20.90	21.5	21.5	21.5
		1880.0	20.78	21.14	20.89	21.5	21.5	21.5
		1855.0	20.82	21.09	20.96	21.5	21.5	21.5
	1RB_24	1905.0	20.89	21.19	20.89	21.5	21.5	21.5
		1880.0	20.90	21.23	21.07	21.5	21.5	21.5
		1855.0	20.84	21.25	21.11	21.5	21.5	21.5
	1RB_0	1905.0	20.85	21.11	20.89	21.5	21.5	21.5
		1880.0	20.82	21.18	20.95	21.5	21.5	21.5
		1855.0	20.77	21.14	21.00	21.5	21.5	21.5
	25RB_25	1905.0	20.77	20.81	20.33	21.5	21.5	21.0
		1880.0	20.80	20.87	20.29	21.5	21.5	21.0
		1855.0	20.84	20.90	20.39	21.5	21.5	21.0
	25RB_12	1905.0	20.91	20.89	20.39	21.5	21.5	21.0
		1880.0	20.88	20.85	20.36	21.5	21.5	21.0
		1855.0	20.86	20.89	20.37	21.5	21.5	21.0
	25RB_0	1905.0	20.89	20.87	20.37	21.5	21.5	21.0
		1880.0	20.90	20.90	20.36	21.5	21.5	21.0
		1855.0	20.84	20.93	20.39	21.5	21.5	21.0
	50RB_0	1905.0	20.83	20.85	20.36	21.5	21.5	21.0
		1880.0	20.86	20.89	20.36	21.5	21.5	21.0
		1855.0	20.81	20.90	20.36	21.5	21.5	21.0



Top Antenna - Reduced power level 5								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	20.56	20.77	20.71	21.5	21.5	21.5
		1880.0	20.63	20.83	20.69	21.5	21.5	21.5
		1857.5	20.71	20.97	20.85	21.5	21.5	21.5
	1RB_37	1902.5	20.83	20.96	20.89	21.5	21.5	21.5
		1880.0	20.84	20.98	20.83	21.5	21.5	21.5
		1857.5	20.79	21.10	20.99	21.5	21.5	21.5
	1RB_0	1902.5	20.70	20.88	20.82	21.5	21.5	21.5
		1880.0	20.76	20.92	20.84	21.5	21.5	21.5
		1857.5	20.71	20.98	20.85	21.5	21.5	21.5
	36RB_38	1902.5	20.77	20.82	20.21	21.5	21.5	21.0
		1880.0	20.80	20.81	20.27	21.5	21.5	21.0
		1857.5	20.87	20.89	20.36	21.5	21.5	21.0
	36RB_19	1902.5	20.85	20.82	20.33	21.5	21.5	21.0
		1880.0	20.87	20.84	20.36	21.5	21.5	21.0
		1857.5	20.86	20.86	20.40	21.5	21.5	21.0
	36RB_0	1902.5	20.84	20.82	20.27	21.5	21.5	21.0
		1880.0	20.87	20.83	20.41	21.5	21.5	21.0
		1857.5	20.86	20.85	20.37	21.5	21.5	21.0
	75RB_0	1902.5	20.84	20.83	20.26	21.5	21.5	21.0
		1880.0	20.81	20.86	20.31	21.5	21.5	21.0
		1857.5	20.87	20.88	20.32	21.5	21.5	21.0



Top Antenna - Reduced power level 5								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	20.48	20.62	20.54	21.5	21.5	21.5
		1880.0	20.46	20.79	20.61	21.5	21.5	21.5
		1860.0	20.51	20.75	20.56	21.5	21.5	21.5
	1RB_50	1900.0	20.89	21.11	21.04	21.5	21.5	21.5
		1880.0	20.88	21.10	21.02	21.5	21.5	21.5
		1860.0	20.86	21.21	20.96	21.5	21.5	21.5
	1RB_0	1900.0	20.58	20.91	20.72	21.5	21.5	21.5
		1880.0	20.55	20.82	20.74	21.5	21.5	21.5
		1860.0	20.56	20.86	20.65	21.5	21.5	21.5
	50RB_50	1900.0	20.80	20.80	20.31	21.5	21.5	21.0
		1880.0	20.74	20.79	20.21	21.5	21.5	21.0
		1860.0	20.84	20.90	20.33	21.5	21.5	21.0
	50RB_25	1900.0	20.91	20.87	20.35	21.5	21.5	21.0
		1880.0	20.88	20.89	20.40	21.5	21.5	21.0
		1860.0	20.87	20.87	20.42	21.5	21.5	21.0
	50RB_0	1900.0	20.90	20.83	20.34	21.5	21.5	21.0
		1880.0	20.87	20.82	20.34	21.5	21.5	21.0
		1860.0	20.90	20.87	20.35	21.5	21.5	21.0
	100RB_0	1900.0	20.82	20.81	20.33	21.5	21.5	21.0
		1880.0	20.83	20.81	20.33	21.5	21.5	21.0
		1860.0	20.88	20.87	20.40	21.5	21.5	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	22.32	22.07	20.94	23.5	23.0	22.0
		1880.0	22.38	22.24	21.19	23.5	23.0	22.0
		1850.7	22.42	22.28	21.20	23.5	23.0	22.0
	1RB_3	1909.3	22.44	22.25	21.05	23.5	23.0	22.0
		1880.0	22.56	22.29	21.25	23.5	23.0	22.0
		1850.7	22.50	22.44	21.31	23.5	23.0	22.0
	1RB_0	1909.3	22.35	22.07	21.02	23.5	23.0	22.0
		1880.0	22.38	22.21	21.15	23.5	23.0	22.0
		1850.7	22.36	22.27	21.20	23.5	23.0	22.0
	3RB_3	1909.3	22.42	21.97	20.99	23.5	23.0	22.0
		1880.0	22.50	22.05	21.13	23.5	23.0	22.0
		1850.7	22.54	22.01	21.21	23.5	23.0	22.0
	3RB_1	1909.3	22.49	22.00	21.10	23.5	23.0	22.0
		1880.0	22.54	22.02	21.19	23.5	23.0	22.0
		1850.7	22.52	22.00	21.31	23.5	23.0	22.0
	3RB_0	1909.3	22.42	21.98	21.02	23.5	23.0	22.0
		1880.0	22.48	21.97	21.14	23.5	23.0	22.0
		1850.7	22.50	21.97	21.24	23.5	23.0	22.0
	6RB_0	1909.3	22.00	21.09	19.91	23.0	22.0	21.0
		1880.0	22.04	21.15	20.01	23.0	22.0	21.0
		1850.7	22.04	21.14	19.97	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	22.35	22.14	20.98	23.5	23.0	22.0
		1880.0	22.42	22.27	21.06	23.5	23.0	22.0
		1851.5	22.44	22.24	21.18	23.5	23.0	22.0
	1RB_7	1908.5	22.55	22.30	21.01	23.5	23.0	22.0
		1880.0	22.69	22.43	21.29	23.5	23.0	22.0
		1851.5	22.69	22.39	21.28	23.5	23.0	22.0
	1RB_0	1908.5	22.40	22.18	21.02	23.5	23.0	22.0
		1880.0	22.48	22.23	21.10	23.5	23.0	22.0
		1851.5	22.46	22.27	21.15	23.5	23.0	22.0
	8RB_7	1908.5	21.95	20.98	19.92	23.0	22.0	21.0
		1880.0	22.01	21.09	20.02	23.0	22.0	21.0
		1851.5	22.00	21.15	20.05	23.0	22.0	21.0
	8RB_4	1908.5	21.98	21.05	19.92	23.0	22.0	21.0
		1880.0	22.05	21.10	20.06	23.0	22.0	21.0
		1851.5	22.04	21.13	20.03	23.0	22.0	21.0
	8RB_0	1908.5	21.96	21.01	19.92	23.0	22.0	21.0
		1880.0	22.00	21.10	20.07	23.0	22.0	21.0
		1851.5	22.02	21.08	20.07	23.0	22.0	21.0
	15RB_0	1908.5	22.02	20.93	19.92	23.0	22.0	21.0
		1880.0	22.00	21.00	19.93	23.0	22.0	21.0
		1851.5	22.00	21.03	19.95	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	22.22	22.02	21.04	23.5	23.0	22.0
		1880.0	22.30	22.14	21.10	23.5	23.0	22.0
		1852.5	22.37	22.15	21.08	23.5	23.0	22.0
	1RB_12	1907.5	22.64	22.24	21.26	23.5	23.0	22.0
		1880.0	22.61	22.39	21.43	23.5	23.0	22.0
		1852.5	22.62	22.43	21.27	23.5	23.0	22.0
	1RB_0	1907.5	22.31	22.13	21.11	23.5	23.0	22.0
		1880.0	22.37	22.11	21.12	23.5	23.0	22.0
		1852.5	22.35	22.18	21.07	23.5	23.0	22.0
	12RB_13	1907.5	21.96	20.88	19.88	23.0	22.0	21.0
		1880.0	21.99	21.01	20.00	23.0	22.0	21.0
		1852.5	22.08	21.00	20.01	23.0	22.0	21.0
	12RB_6	1907.5	22.03	20.97	19.98	23.0	22.0	21.0
		1880.0	22.07	21.11	20.05	23.0	22.0	21.0
		1852.5	22.06	21.08	20.04	23.0	22.0	21.0
	12RB_0	1907.5	21.99	20.98	19.96	23.0	22.0	21.0
		1880.0	22.03	21.04	19.99	23.0	22.0	21.0
		1852.5	22.04	21.00	19.98	23.0	22.0	21.0
	25RB_0	1907.5	21.94	20.98	19.86	23.0	22.0	21.0
		1880.0	21.99	21.05	19.94	23.0	22.0	21.0
		1852.5	22.04	21.05	20.00	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	22.35	22.19	21.03	23.5	23.0	22.0
		1880.0	22.42	22.33	21.14	23.5	23.0	22.0
		1855.0	22.42	22.24	21.12	23.5	23.0	22.0
	1RB_24	1905.0	22.52	22.38	21.22	23.5	23.0	22.0
		1880.0	22.52	22.42	21.28	23.5	23.0	22.0
		1855.0	22.60	22.43	21.30	23.5	23.0	22.0
	1RB_0	1905.0	22.41	22.31	21.08	23.5	23.0	22.0
		1880.0	22.47	22.37	21.19	23.5	23.0	22.0
		1855.0	22.47	22.32	21.21	23.5	23.0	22.0
	25RB_25	1905.0	22.01	21.01	19.97	23.0	22.0	21.0
		1880.0	21.99	21.06	19.94	23.0	22.0	21.0
		1855.0	22.10	21.13	20.06	23.0	22.0	21.0
	25RB_12	1905.0	22.04	21.09	20.02	23.0	22.0	21.0
		1880.0	22.09	21.10	20.01	23.0	22.0	21.0
		1855.0	22.07	21.09	20.05	23.0	22.0	21.0
	25RB_0	1905.0	22.08	21.08	20.02	23.0	22.0	21.0
		1880.0	22.08	21.12	20.01	23.0	22.0	21.0
		1855.0	22.08	21.10	20.04	23.0	22.0	21.0
	50RB_0	1905.0	22.05	21.06	20.01	23.0	22.0	21.0
		1880.0	22.05	21.07	19.96	23.0	22.0	21.0
		1855.0	22.08	21.13	20.08	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	22.26	21.93	20.96	23.5	23.0	22.0
		1880.0	22.31	21.99	20.91	23.5	23.0	22.0
		1857.5	22.33	22.18	21.05	23.5	23.0	22.0
	1RB_37	1902.5	22.41	22.19	21.18	23.5	23.0	22.0
		1880.0	22.44	22.16	21.14	23.5	23.0	22.0
		1857.5	22.44	22.27	21.30	23.5	23.0	22.0
	1RB_0	1902.5	22.32	22.07	21.00	23.5	23.0	22.0
		1880.0	22.40	22.12	21.07	23.5	23.0	22.0
		1857.5	22.34	22.17	21.11	23.5	23.0	22.0
	36RB_38	1902.5	21.98	20.96	19.93	23.0	22.0	21.0
		1880.0	22.04	21.00	19.94	23.0	22.0	21.0
		1857.5	22.09	21.01	20.03	23.0	22.0	21.0
	36RB_19	1902.5	22.07	21.02	19.98	23.0	22.0	21.0
		1880.0	22.08	21.02	20.00	23.0	22.0	21.0
		1857.5	22.10	21.10	20.03	23.0	22.0	21.0
	36RB_0	1902.5	22.05	21.00	19.98	23.0	22.0	21.0
		1880.0	22.09	21.05	20.01	23.0	22.0	21.0
		1857.5	22.11	21.07	20.06	23.0	22.0	21.0
	75RB_0	1902.5	22.03	21.03	19.94	23.0	22.0	21.0
		1880.0	22.04	21.00	19.94	23.0	22.0	21.0
		1857.5	22.07	21.05	20.02	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	22.11	21.87	20.84	23.5	23.0	22.0
		1880.0	22.14	22.03	20.88	23.5	23.0	22.0
		1860.0	22.16	22.03	20.86	23.5	23.0	22.0
	1RB_50	1900.0	22.51	22.41	21.32	23.5	23.0	22.0
		1880.0	22.55	22.40	21.33	23.5	23.0	22.0
		1860.0	22.54	22.41	21.25	23.5	23.0	22.0
	1RB_0	1900.0	22.16	22.03	21.01	23.5	23.0	22.0
		1880.0	22.25	22.14	21.03	23.5	23.0	22.0
		1860.0	22.23	22.06	20.93	23.5	23.0	22.0
	50RB_50	1900.0	21.99	20.99	19.97	23.0	22.0	21.0
		1880.0	22.07	21.02	19.92	23.0	22.0	21.0
		1860.0	21.98	21.08	20.07	23.0	22.0	21.0
	50RB_25	1900.0	22.04	21.06	20.01	23.0	22.0	21.0
		1880.0	22.03	21.07	20.03	23.0	22.0	21.0
		1860.0	22.04	21.08	20.06	23.0	22.0	21.0
	50RB_0	1900.0	22.05	21.06	20.00	23.0	22.0	21.0
		1880.0	22.17	21.03	20.02	23.0	22.0	21.0
		1860.0	22.05	21.05	20.02	23.0	22.0	21.0
	100RB_0	1900.0	22.03	21.01	19.96	23.0	22.0	21.0
		1880.0	22.09	21.03	19.99	23.0	22.0	21.0
		1860.0	22.07	21.10	20.03	23.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1909.3	20.88	21.23	21.00	22.0	22.0	22.0
		1880.0	20.94	21.31	21.17	22.0	22.0	22.0
		1850.7	20.94	21.29	21.22	22.0	22.0	22.0
	1RB_3	1909.3	21.06	21.35	21.22	22.0	22.0	22.0
		1880.0	21.09	21.45	21.23	22.0	22.0	22.0
		1850.7	21.13	21.47	21.35	22.0	22.0	22.0
	1RB_0	1909.3	20.92	21.20	21.02	22.0	22.0	22.0
		1880.0	20.96	21.31	21.19	22.0	22.0	22.0
		1850.7	21.00	21.33	21.14	22.0	22.0	22.0
	3RB_3	1909.3	21.03	21.05	21.08	22.0	22.0	22.0
		1880.0	21.11	21.18	21.20	22.0	22.0	22.0
		1850.7	21.04	21.09	21.18	22.0	22.0	22.0
	3RB_1	1909.3	21.08	21.10	21.14	22.0	22.0	22.0
		1880.0	21.14	21.23	21.25	22.0	22.0	22.0
		1850.7	21.12	21.14	21.29	22.0	22.0	22.0
	3RB_0	1909.3	21.04	21.03	21.08	22.0	22.0	22.0
		1880.0	21.10	21.19	21.16	22.0	22.0	22.0
		1850.7	21.03	21.09	21.14	22.0	22.0	22.0
	6RB_0	1909.3	21.05	21.16	19.98	22.0	22.0	21.0
		1880.0	21.09	21.20	20.05	22.0	22.0	21.0
		1850.7	21.08	21.18	20.05	22.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1908.5	20.95	21.29	21.16	22.0	22.0	22.0
		1880.0	21.02	21.39	21.25	22.0	22.0	22.0
		1851.5	20.99	21.38	21.27	22.0	22.0	22.0
	1RB_7	1908.5	21.13	21.46	21.44	22.0	22.0	22.0
		1880.0	21.13	21.49	21.43	22.0	22.0	22.0
		1851.5	21.23	21.50	21.46	22.0	22.0	22.0
	1RB_0	1908.5	20.99	21.34	21.25	22.0	22.0	22.0
		1880.0	21.01	21.42	21.26	22.0	22.0	22.0
		1851.5	21.02	21.34	21.26	22.0	22.0	22.0
	8RB_7	1908.5	21.00	21.11	19.96	22.0	22.0	22.0
		1880.0	21.07	21.16	20.03	22.0	22.0	22.0
		1851.5	21.10	21.21	20.09	22.0	22.0	22.0
	8RB_4	1908.5	21.00	21.11	19.98	22.0	22.0	22.0
		1880.0	21.07	21.18	20.06	22.0	22.0	22.0
		1851.5	21.08	21.23	20.07	22.0	22.0	22.0
	8RB_0	1908.5	21.02	21.11	20.00	22.0	22.0	22.0
		1880.0	21.05	21.17	20.07	22.0	22.0	22.0
		1851.5	21.04	21.23	20.08	22.0	22.0	22.0
	15RB_0	1908.5	21.02	21.07	19.94	22.0	22.0	21.0
		1880.0	21.06	21.17	20.09	22.0	22.0	21.0
		1851.5	21.09	21.11	20.03	22.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1907.5	20.85	21.15	21.01	22.0	22.0	22.0
		1880.0	20.91	21.30	21.14	22.0	22.0	22.0
		1852.5	20.89	21.28	21.23	22.0	22.0	22.0
	1RB_12	1907.5	21.21	21.43	21.24	22.0	22.0	22.0
		1880.0	21.11	21.64	21.43	22.0	22.0	22.0
		1852.5	21.31	21.63	21.40	22.0	22.0	22.0
	1RB_0	1907.5	20.89	21.23	21.02	22.0	22.0	22.0
		1880.0	20.94	21.27	21.22	22.0	22.0	22.0
		1852.5	20.93	21.36	21.24	22.0	22.0	22.0
	12RB_13	1907.5	20.95	21.01	19.90	22.0	22.0	22.0
		1880.0	20.99	21.09	20.01	22.0	22.0	22.0
		1852.5	21.08	21.06	20.10	22.0	22.0	22.0
	12RB_6	1907.5	21.08	21.10	20.08	22.0	22.0	22.0
		1880.0	21.10	21.14	20.14	22.0	22.0	22.0
		1852.5	21.10	21.12	20.13	22.0	22.0	22.0
	12RB_0	1907.5	21.07	21.07	20.05	22.0	22.0	22.0
		1880.0	21.06	21.09	20.08	22.0	22.0	22.0
		1852.5	21.07	21.05	20.10	22.0	22.0	22.0
	25RB_0	1907.5	21.08	21.03	20.02	22.0	22.0	21.0
		1880.0	21.07	21.13	20.03	22.0	22.0	21.0
		1852.5	21.11	21.11	20.06	22.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1905.0	20.94	21.26	21.16	22.0	22.0	22.0
		1880.0	21.02	21.33	21.15	22.0	22.0	22.0
		1855.0	21.01	21.37	21.18	22.0	22.0	22.0
	1RB_24	1905.0	21.05	21.39	21.28	22.0	22.0	22.0
		1880.0	21.12	21.47	21.34	22.0	22.0	22.0
		1855.0	21.16	21.52	21.39	22.0	22.0	22.0
	1RB_0	1905.0	21.02	21.31	21.14	22.0	22.0	22.0
		1880.0	21.07	21.39	21.20	22.0	22.0	22.0
		1855.0	21.08	21.40	21.22	22.0	22.0	22.0
	25RB_25	1905.0	21.06	21.07	20.06	22.0	22.0	22.0
		1880.0	21.06	21.10	20.01	22.0	22.0	22.0
		1855.0	21.13	21.17	20.16	22.0	22.0	22.0
	25RB_12	1905.0	21.09	21.09	20.10	22.0	22.0	22.0
		1880.0	21.11	21.14	20.11	22.0	22.0	22.0
		1855.0	21.14	21.16	20.15	22.0	22.0	22.0
	25RB_0	1905.0	21.13	21.18	20.11	22.0	22.0	22.0
		1880.0	21.11	21.17	20.11	22.0	22.0	22.0
		1855.0	21.16	21.20	20.16	22.0	22.0	22.0
	50RB_0	1905.0	21.13	21.15	20.06	22.0	22.0	21.0
		1880.0	21.06	21.17	20.06	22.0	22.0	21.0
		1855.0	21.13	21.20	20.16	22.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1902.5	20.86	21.21	21.18	22.0	22.0	22.0
		1880.0	20.91	21.24	21.21	22.0	22.0	22.0
		1857.5	20.92	21.34	21.17	22.0	22.0	22.0
	1RB_37	1902.5	21.02	21.37	21.33	22.0	22.0	22.0
		1880.0	21.07	21.39	21.36	22.0	22.0	22.0
		1857.5	21.04	21.42	21.31	22.0	22.0	22.0
	1RB_0	1902.5	20.94	21.29	21.22	22.0	22.0	22.0
		1880.0	20.96	21.33	21.28	22.0	22.0	22.0
		1857.5	21.02	21.34	21.25	22.0	22.0	22.0
	36RB_38	1902.5	21.06	21.08	20.05	22.0	22.0	22.0
		1880.0	21.04	21.13	20.10	22.0	22.0	22.0
		1857.5	21.12	21.13	20.17	22.0	22.0	22.0
	36RB_19	1902.5	21.12	21.12	20.09	22.0	22.0	22.0
		1880.0	21.12	21.18	20.10	22.0	22.0	22.0
		1857.5	21.14	21.14	20.14	22.0	22.0	22.0
	36RB_0	1902.5	21.11	21.09	20.06	22.0	22.0	22.0
		1880.0	21.11	21.15	20.09	22.0	22.0	22.0
		1857.5	21.13	21.23	20.13	22.0	22.0	22.0
	75RB_0	1902.5	21.12	21.12	20.05	22.0	22.0	21.0
		1880.0	21.10	21.13	20.04	22.0	22.0	21.0
		1857.5	21.13	21.13	20.11	22.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 2			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1900.0	20.70	21.06	20.80	22.0	22.0	22.0
		1880.0	20.72	21.16	20.95	22.0	22.0	22.0
		1860.0	20.73	21.16	21.02	22.0	22.0	22.0
	1RB_50	1900.0	21.09	21.58	21.21	22.0	22.0	22.0
		1880.0	21.11	21.49	21.38	22.0	22.0	22.0
		1860.0	21.09	21.49	21.43	22.0	22.0	22.0
	1RB_0	1900.0	20.79	21.19	20.95	22.0	22.0	22.0
		1880.0	20.81	21.27	21.06	22.0	22.0	22.0
		1860.0	20.84	21.21	21.18	22.0	22.0	22.0
	50RB_50	1900.0	21.07	21.14	20.05	22.0	22.0	22.0
		1880.0	21.03	21.02	20.02	22.0	22.0	22.0
		1860.0	21.15	21.18	20.11	22.0	22.0	22.0
	50RB_25	1900.0	21.14	21.15	20.10	22.0	22.0	22.0
		1880.0	21.16	21.17	20.09	22.0	22.0	22.0
		1860.0	21.14	21.18	20.12	22.0	22.0	22.0
	50RB_0	1900.0	21.14	21.12	20.09	22.0	22.0	22.0
		1880.0	21.17	21.15	20.14	22.0	22.0	22.0
		1860.0	21.09	21.19	20.13	22.0	22.0	22.0
	100RB_0	1900.0	21.08	21.11	20.04	22.0	22.0	21.0
		1880.0	21.07	21.15	20.03	22.0	22.0	21.0
		1860.0	21.14	21.13	20.16	22.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	23.31	22.58	21.64	24.0	23.0	22.0
		1732.5	23.37	22.68	21.58	24.0	23.0	22.0
		1710.7	23.28	22.56	21.42	24.0	23.0	22.0
	1RB_3	1754.3	23.44	22.70	21.77	24.0	23.0	22.0
		1732.5	23.50	22.86	21.72	24.0	23.0	22.0
		1710.7	23.40	22.75	21.53	24.0	23.0	22.0
	1RB_0	1754.3	23.35	22.61	21.61	24.0	23.0	22.0
		1732.5	23.39	22.67	21.52	24.0	23.0	22.0
		1710.7	23.26	22.62	21.47	24.0	23.0	22.0
	3RB_3	1754.3	23.43	22.52	21.57	24.0	23.0	22.0
		1732.5	23.49	22.51	21.54	24.0	23.0	22.0
		1710.7	23.34	22.40	21.53	24.0	23.0	22.0
	3RB_1	1754.3	23.47	22.54	21.64	24.0	23.0	22.0
		1732.5	23.55	22.62	21.62	24.0	23.0	22.0
		1710.7	23.41	22.50	21.60	24.0	23.0	22.0
	3RB_0	1754.3	23.45	22.48	21.59	24.0	23.0	22.0
		1732.5	23.50	22.56	21.58	24.0	23.0	22.0
		1710.7	23.36	22.39	21.53	24.0	23.0	22.0
	6RB_0	1754.3	22.49	21.60	20.41	23.0	22.0	21.0
		1732.5	22.53	21.60	20.40	23.0	22.0	21.0
		1710.7	22.40	21.47	20.39	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	23.31	22.69	21.57	24.0	23.0	22.0
		1732.5	23.35	22.72	21.63	24.0	23.0	22.0
		1711.5	23.32	22.61	21.58	24.0	23.0	22.0
	1RB_7	1753.5	23.52	22.88	21.82	24.0	23.0	22.0
		1732.5	23.53	22.97	21.75	24.0	23.0	22.0
		1711.5	23.46	22.68	21.63	24.0	23.0	22.0
	1RB_0	1753.5	23.37	22.77	21.57	24.0	23.0	22.0
		1732.5	23.37	22.63	21.61	24.0	23.0	22.0
		1711.5	23.24	22.57	21.50	24.0	23.0	22.0
	8RB_7	1753.5	22.35	21.45	20.35	23.0	22.0	21.0
		1732.5	22.40	21.49	20.48	23.0	22.0	21.0
		1711.5	22.33	21.38	20.33	23.0	22.0	21.0
	8RB_4	1753.5	22.43	21.45	20.44	23.0	22.0	21.0
		1732.5	22.48	21.56	20.48	23.0	22.0	21.0
		1711.5	22.35	21.42	20.29	23.0	22.0	21.0
	8RB_0	1753.5	22.41	21.46	20.40	23.0	22.0	21.0
		1732.5	22.42	21.52	20.44	23.0	22.0	21.0
		1711.5	22.31	21.42	20.30	23.0	22.0	21.0
	15RB_0	1753.5	22.43	21.46	20.41	23.0	22.0	21.0
		1732.5	22.47	21.47	20.46	23.0	22.0	21.0
		1711.5	22.31	21.38	20.31	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	23.22	22.44	21.50	24.0	23.0	22.0
		1732.5	23.24	22.47	21.40	24.0	23.0	22.0
		1712.5	23.14	22.46	21.40	24.0	23.0	22.0
	1RB_12	1752.5	23.45	22.72	21.74	24.0	23.0	22.0
		1732.5	23.58	22.77	21.69	24.0	23.0	22.0
		1712.5	23.41	22.76	21.60	24.0	23.0	22.0
	1RB_0	1752.5	23.25	22.49	21.48	24.0	23.0	22.0
		1732.5	23.28	22.58	21.50	24.0	23.0	22.0
		1712.5	23.15	22.44	21.42	24.0	23.0	22.0
	12RB_13	1752.5	22.39	21.41	20.38	23.0	22.0	21.0
		1732.5	22.44	21.46	20.46	23.0	22.0	21.0
		1712.5	22.36	21.37	20.40	23.0	22.0	21.0
	12RB_6	1752.5	22.43	21.47	20.46	23.0	22.0	21.0
		1732.5	22.53	21.49	20.47	23.0	22.0	21.0
		1712.5	22.36	21.36	20.39	23.0	22.0	21.0
	12RB_0	1752.5	22.41	21.42	20.42	23.0	22.0	21.0
		1732.5	22.50	21.49	20.46	23.0	22.0	21.0
		1712.5	22.30	21.29	20.33	23.0	22.0	21.0
	25RB_0	1752.5	22.43	21.47	20.40	23.0	22.0	21.0
		1732.5	22.46	21.45	20.44	23.0	22.0	21.0
		1712.5	22.34	21.34	20.29	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	23.31	22.61	21.57	24.0	23.0	22.0
		1732.5	23.35	22.59	21.59	24.0	23.0	22.0
		1715.0	23.31	22.59	21.44	24.0	23.0	22.0
	1RB_24	1750.0	23.50	22.77	21.72	24.0	23.0	22.0
		1732.5	23.42	22.76	21.72	24.0	23.0	22.0
		1715.0	23.38	22.64	21.60	24.0	23.0	22.0
	1RB_0	1750.0	23.37	22.72	21.65	24.0	23.0	22.0
		1732.5	23.44	22.72	21.65	24.0	23.0	22.0
		1715.0	23.29	22.56	21.39	24.0	23.0	22.0
	25RB_25	1750.0	22.49	21.45	20.42	23.0	22.0	21.0
		1732.5	22.53	21.45	20.45	23.0	22.0	21.0
		1715.0	22.40	21.38	20.41	23.0	22.0	21.0
	25RB_12	1750.0	22.47	21.46	20.44	23.0	22.0	21.0
		1732.5	22.50	21.50	20.51	23.0	22.0	21.0
		1715.0	22.40	21.34	20.39	23.0	22.0	21.0
	25RB_0	1750.0	22.47	21.50	20.44	23.0	22.0	21.0
		1732.5	22.49	21.49	20.50	23.0	22.0	21.0
		1715.0	22.33	21.33	20.32	23.0	22.0	21.0
	50RB_0	1750.0	22.49	21.45	20.45	23.0	22.0	21.0
		1732.5	22.50	21.48	20.45	23.0	22.0	21.0
		1715.0	22.36	21.36	20.36	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	23.24	22.61	21.44	24.0	23.0	22.0
		1732.5	23.25	22.60	21.51	24.0	23.0	22.0
		1717.5	23.24	22.61	21.39	24.0	23.0	22.0
	1RB_37	1747.5	23.37	22.78	21.63	24.0	23.0	22.0
		1732.5	23.38	22.76	21.70	24.0	23.0	22.0
		1717.5	23.29	22.72	21.57	24.0	23.0	22.0
	1RB_0	1747.5	23.29	22.77	21.55	24.0	23.0	22.0
		1732.5	23.36	22.70	21.62	24.0	23.0	22.0
		1717.5	23.19	22.60	21.45	24.0	23.0	22.0
	36RB_38	1747.5	22.48	21.47	20.47	23.0	22.0	21.0
		1732.5	22.52	21.50	20.50	23.0	22.0	21.0
		1717.5	22.40	21.45	20.41	23.0	22.0	21.0
	36RB_19	1747.5	22.54	21.46	20.48	23.0	22.0	21.0
		1732.5	22.53	21.51	20.44	23.0	22.0	21.0
		1717.5	22.40	21.41	20.39	23.0	22.0	21.0
	36RB_0	1747.5	22.50	21.47	20.43	23.0	22.0	21.0
		1732.5	22.52	21.45	20.41	23.0	22.0	21.0
		1717.5	22.39	21.38	20.35	23.0	22.0	21.0
	75RB_0	1747.5	22.49	21.51	20.46	23.0	22.0	21.0
		1732.5	22.50	21.49	20.48	23.0	22.0	21.0
		1717.5	22.39	21.37	20.33	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	23.05	22.24	21.27	24.0	23.0	22.0
		1732.5	23.08	22.35	21.16	24.0	23.0	22.0
		1720.0	23.10	22.36	21.33	24.0	23.0	22.0
	1RB_50	1745.0	23.47	22.65	21.66	24.0	23.0	22.0
		1732.5	23.53	22.77	21.64	24.0	23.0	22.0
		1720.0	23.42	22.77	21.64	24.0	23.0	22.0
	1RB_0	1745.0	23.12	22.38	21.36	24.0	23.0	22.0
		1732.5	23.14	22.41	21.25	24.0	23.0	22.0
		1720.0	23.03	22.36	21.31	24.0	23.0	22.0
	50RB_50	1745.0	22.52	21.51	20.48	23.0	22.0	21.0
		1732.5	22.48	21.49	20.50	23.0	22.0	21.0
		1720.0	22.40	21.41	20.40	23.0	22.0	21.0
	50RB_25	1745.0	22.52	21.50	20.47	23.0	22.0	21.0
		1732.5	22.52	21.50	20.46	23.0	22.0	21.0
		1720.0	22.40	21.41	20.39	23.0	22.0	21.0
	50RB_0	1745.0	22.45	21.49	20.46	23.0	22.0	21.0
		1732.5	22.44	21.46	20.44	23.0	22.0	21.0
		1720.0	22.31	21.34	20.28	23.0	22.0	21.0
	100RB_0	1745.0	22.48	21.46	20.47	23.0	22.0	21.0
		1732.5	22.46	21.48	20.45	23.0	22.0	21.0
		1720.0	22.36	21.36	20.37	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	23.02	22.34	21.22	24.0	23.0	22.0
		1732.5	23.05	22.38	21.37	24.0	23.0	22.0
		1710.7	22.96	22.30	21.04	24.0	23.0	22.0
	1RB_3	1754.3	23.13	22.47	21.37	24.0	23.0	22.0
		1732.5	23.22	22.56	21.50	24.0	23.0	22.0
		1710.7	23.06	22.43	21.21	24.0	23.0	22.0
	1RB_0	1754.3	23.03	22.33	21.28	24.0	23.0	22.0
		1732.5	23.05	22.40	21.32	24.0	23.0	22.0
		1710.7	22.96	22.26	21.17	24.0	23.0	22.0
	3RB_3	1754.3	23.08	22.18	21.22	24.0	23.0	22.0
		1732.5	23.14	22.20	21.37	24.0	23.0	22.0
		1710.7	23.05	22.07	21.18	24.0	23.0	22.0
	3RB_1	1754.3	23.19	22.22	21.28	24.0	23.0	22.0
		1732.5	23.22	22.25	21.37	24.0	23.0	22.0
		1710.7	23.12	22.15	21.24	24.0	23.0	22.0
	3RB_0	1754.3	23.09	22.15	21.25	24.0	23.0	22.0
		1732.5	23.16	22.19	21.33	24.0	23.0	22.0
		1710.7	23.08	22.13	21.17	24.0	23.0	22.0
	6RB_0	1754.3	22.16	21.26	20.12	23.0	22.0	21.0
		1732.5	22.20	21.30	20.15	23.0	22.0	21.0
		1710.7	22.08	21.18	20.05	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	22.98	22.25	21.16	24.0	23.0	22.0
		1732.5	23.02	22.38	21.31	24.0	23.0	22.0
		1711.5	22.96	22.27	21.26	24.0	23.0	22.0
	1RB_7	1753.5	23.12	22.38	21.39	24.0	23.0	22.0
		1732.5	23.22	22.44	21.44	24.0	23.0	22.0
		1711.5	23.18	22.40	21.43	24.0	23.0	22.0
	1RB_0	1753.5	23.02	22.31	21.21	24.0	23.0	22.0
		1732.5	23.08	22.32	21.32	24.0	23.0	22.0
		1711.5	22.98	22.24	21.26	24.0	23.0	22.0
	8RB_7	1753.5	22.08	21.15	20.13	23.0	22.0	21.0
		1732.5	22.14	21.23	20.17	23.0	22.0	21.0
		1711.5	22.04	21.08	20.06	23.0	22.0	21.0
	8RB_4	1753.5	22.14	21.17	20.15	23.0	22.0	21.0
		1732.5	22.20	21.23	20.16	23.0	22.0	21.0
		1711.5	22.04	21.14	20.07	23.0	22.0	21.0
	8RB_0	1753.5	22.12	21.14	20.13	23.0	22.0	21.0
		1732.5	22.14	21.25	20.16	23.0	22.0	21.0
		1711.5	22.05	21.12	20.02	23.0	22.0	21.0
	15RB_0	1753.5	22.13	21.09	20.05	23.0	22.0	21.0
		1732.5	22.15	21.24	20.12	23.0	22.0	21.0
		1711.5	22.03	21.06	20.03	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	22.91	22.17	21.19	24.0	23.0	22.0
		1732.5	22.97	22.31	21.10	24.0	23.0	22.0
		1712.5	22.84	22.25	21.04	24.0	23.0	22.0
	1RB_12	1752.5	23.25	22.49	21.52	24.0	23.0	22.0
		1732.5	23.22	22.62	21.39	24.0	23.0	22.0
		1712.5	23.17	22.52	21.35	24.0	23.0	22.0
	1RB_0	1752.5	22.98	22.20	21.17	24.0	23.0	22.0
		1732.5	23.01	22.32	21.14	24.0	23.0	22.0
		1712.5	22.87	22.25	21.03	24.0	23.0	22.0
	12RB_13	1752.5	22.10	21.08	20.06	23.0	22.0	21.0
		1732.5	22.13	21.14	20.12	23.0	22.0	21.0
		1712.5	22.07	21.06	20.06	23.0	22.0	21.0
	12RB_6	1752.5	22.13	21.15	20.16	23.0	22.0	21.0
		1732.5	22.21	21.21	20.21	23.0	22.0	21.0
		1712.5	22.09	21.08	20.09	23.0	22.0	21.0
	12RB_0	1752.5	22.11	21.06	20.06	23.0	22.0	21.0
		1732.5	22.15	21.17	20.15	23.0	22.0	21.0
		1712.5	22.01	21.01	20.01	23.0	22.0	21.0
	25RB_0	1752.5	22.13	21.08	20.08	23.0	22.0	21.0
		1732.5	22.18	21.14	20.15	23.0	22.0	21.0
		1712.5	22.03	21.06	20.04	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	23.00	22.34	21.21	24.0	23.0	22.0
		1732.5	23.02	22.39	21.27	24.0	23.0	22.0
		1715.0	23.03	22.41	21.24	24.0	23.0	22.0
	1RB_24	1750.0	23.16	22.45	21.35	24.0	23.0	22.0
		1732.5	23.22	22.56	21.42	24.0	23.0	22.0
		1715.0	23.10	22.46	21.35	24.0	23.0	22.0
	1RB_0	1750.0	23.09	22.39	21.33	24.0	23.0	22.0
		1732.5	23.15	22.47	21.36	24.0	23.0	22.0
		1715.0	23.02	22.35	21.19	24.0	23.0	22.0
	25RB_25	1750.0	22.19	21.21	20.11	23.0	22.0	21.0
		1732.5	22.19	21.20	20.19	23.0	22.0	21.0
		1715.0	22.09	21.12	20.13	23.0	22.0	21.0
	25RB_12	1750.0	22.18	21.22	20.17	23.0	22.0	21.0
		1732.5	22.21	21.20	20.15	23.0	22.0	21.0
		1715.0	22.11	21.12	20.08	23.0	22.0	21.0
	25RB_0	1750.0	22.20	21.18	20.18	23.0	22.0	21.0
		1732.5	22.20	21.24	20.18	23.0	22.0	21.0
		1715.0	22.02	21.06	20.05	23.0	22.0	21.0
	50RB_0	1750.0	22.22	21.21	20.14	23.0	22.0	21.0
		1732.5	22.21	21.19	20.19	23.0	22.0	21.0
		1715.0	22.09	21.08	20.10	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	22.93	22.09	21.06	24.0	23.0	22.0
		1732.5	22.92	22.26	21.17	24.0	23.0	22.0
		1717.5	22.92	22.28	21.21	24.0	23.0	22.0
	1RB_37	1747.5	23.11	22.36	21.23	24.0	23.0	22.0
		1732.5	23.10	22.42	21.32	24.0	23.0	22.0
		1717.5	23.04	22.38	21.31	24.0	23.0	22.0
	1RB_0	1747.5	23.02	22.32	21.21	24.0	23.0	22.0
		1732.5	23.01	22.36	21.27	24.0	23.0	22.0
		1717.5	22.92	22.19	21.22	24.0	23.0	22.0
	36RB_38	1747.5	22.21	21.13	20.12	23.0	22.0	21.0
		1732.5	22.25	21.20	20.23	23.0	22.0	21.0
		1717.5	22.09	21.15	20.11	23.0	22.0	21.0
	36RB_19	1747.5	22.27	21.21	20.19	23.0	22.0	21.0
		1732.5	22.16	21.18	20.19	23.0	22.0	21.0
		1717.5	22.11	21.10	20.11	23.0	22.0	21.0
	36RB_0	1747.5	22.20	21.16	20.13	23.0	22.0	21.0
		1732.5	22.18	21.15	20.18	23.0	22.0	21.0
		1717.5	22.13	21.08	20.06	23.0	22.0	21.0
	75RB_0	1747.5	22.18	21.20	20.14	23.0	22.0	21.0
		1732.5	22.19	21.21	20.19	23.0	22.0	21.0
		1717.5	22.10	21.12	20.07	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	22.79	22.13	20.93	24.0	23.0	22.0
		1732.5	22.76	22.07	20.99	24.0	23.0	22.0
		1720.0	22.75	22.13	20.93	24.0	23.0	22.0
	1RB_50	1745.0	23.23	22.46	21.37	24.0	23.0	22.0
		1732.5	23.22	22.49	21.46	24.0	23.0	22.0
		1720.0	23.14	22.54	21.25	24.0	23.0	22.0
	1RB_0	1745.0	22.85	22.28	21.14	24.0	23.0	22.0
		1732.5	22.81	22.12	21.05	24.0	23.0	22.0
		1720.0	22.77	22.11	20.91	24.0	23.0	22.0
	50RB_50	1745.0	22.15	21.14	20.17	23.0	22.0	21.0
		1732.5	22.21	21.18	20.20	23.0	22.0	21.0
		1720.0	22.10	21.10	20.09	23.0	22.0	21.0
	50RB_25	1745.0	22.22	21.15	20.13	23.0	22.0	21.0
		1732.5	22.20	21.20	20.18	23.0	22.0	21.0
		1720.0	22.13	21.13	20.09	23.0	22.0	21.0
	50RB_0	1745.0	22.13	21.16	20.14	23.0	22.0	21.0
		1732.5	22.15	21.15	20.15	23.0	22.0	21.0
		1720.0	22.03	21.07	20.06	23.0	22.0	21.0
	100RB_0	1745.0	22.15	21.14	20.12	23.0	22.0	21.0
		1732.5	22.16	21.17	20.19	23.0	22.0	21.0
		1720.0	22.10	21.09	20.06	23.0	22.0	21.0



Top Antenna - Reduced power level 1								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	18.86	19.17	19.15	19.5	19.5	19.5
		1732.5	18.90	19.26	19.09	19.5	19.5	19.5
		1710.7	18.78	19.15	18.93	19.5	19.5	19.5
	1RB_3	1754.3	19.05	19.30	19.26	19.5	19.5	19.5
		1732.5	19.07	19.34	19.16	19.5	19.5	19.5
		1710.7	18.87	19.25	19.10	19.5	19.5	19.5
	1RB_0	1754.3	18.85	19.19	19.18	19.5	19.5	19.5
		1732.5	18.89	19.20	19.10	19.5	19.5	19.5
		1710.7	18.80	19.20	18.98	19.5	19.5	19.5
	3RB_3	1754.3	18.99	19.03	19.15	19.5	19.5	19.5
		1732.5	18.98	19.06	19.13	19.5	19.5	19.5
		1710.7	18.90	18.93	19.09	19.5	19.5	19.5
	3RB_1	1754.3	19.01	19.12	19.16	19.5	19.5	19.5
		1732.5	19.06	19.09	19.21	19.5	19.5	19.5
		1710.7	18.93	19.02	19.13	19.5	19.5	19.5
	3RB_0	1754.3	18.95	19.02	19.11	19.5	19.5	19.5
		1732.5	19.01	19.06	19.16	19.5	19.5	19.5
		1710.7	18.91	18.96	19.05	19.5	19.5	19.5
	6RB_0	1754.3	18.97	19.09	18.97	19.5	19.5	19.5
		1732.5	19.00	19.08	18.98	19.5	19.5	19.5
		1710.7	18.88	19.03	18.89	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	18.86	19.27	19.08	19.5	19.5	19.5
		1732.5	18.92	19.27	19.15	19.5	19.5	19.5
		1711.5	18.84	19.17	19.14	19.5	19.5	19.5
	1RB_7	1753.5	19.01	19.46	19.29	19.5	19.5	19.5
		1732.5	19.09	19.41	19.28	19.5	19.5	19.5
		1711.5	19.05	19.25	19.30	19.5	19.5	19.5
	1RB_0	1753.5	18.88	19.21	19.07	19.5	19.5	19.5
		1732.5	18.93	19.30	19.10	19.5	19.5	19.5
		1711.5	18.81	19.12	19.05	19.5	19.5	19.5
	8RB_7	1753.5	18.91	18.96	18.96	19.5	19.5	19.5
		1732.5	18.95	19.04	18.99	19.5	19.5	19.5
		1711.5	18.86	18.91	18.84	19.5	19.5	19.5
	8RB_4	1753.5	18.91	19.03	19.02	19.5	19.5	19.5
		1732.5	18.97	19.06	19.05	19.5	19.5	19.5
		1711.5	18.83	18.93	18.89	19.5	19.5	19.5
	8RB_0	1753.5	18.92	18.99	18.99	19.5	19.5	19.5
		1732.5	18.93	19.03	19.01	19.5	19.5	19.5
		1711.5	18.83	18.96	18.86	19.5	19.5	19.5
	15RB_0	1753.5	18.87	18.97	18.98	19.5	19.5	19.5
		1732.5	18.91	18.99	18.99	19.5	19.5	19.5
		1711.5	18.82	18.86	18.85	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	18.73	19.16	19.04	19.5	19.5	19.5
		1732.5	18.77	19.15	18.94	19.5	19.5	19.5
		1712.5	18.69	19.05	18.87	19.5	19.5	19.5
	1RB_12	1752.5	19.06	19.46	19.19	19.5	19.5	19.5
		1732.5	19.07	19.42	19.28	19.5	19.5	19.5
		1712.5	18.85	19.45	19.17	19.5	19.5	19.5
	1RB_0	1752.5	18.81	19.22	18.99	19.5	19.5	19.5
		1732.5	18.81	19.16	18.92	19.5	19.5	19.5
		1712.5	18.64	19.05	18.91	19.5	19.5	19.5
	12RB_13	1752.5	18.88	18.87	18.90	19.5	19.5	19.5
		1732.5	18.86	18.89	18.96	19.5	19.5	19.5
		1712.5	18.86	18.86	18.91	19.5	19.5	19.5
	12RB_6	1752.5	18.97	18.99	18.98	19.5	19.5	19.5
		1732.5	18.98	19.00	19.02	19.5	19.5	19.5
		1712.5	18.87	18.86	18.90	19.5	19.5	19.5
	12RB_0	1752.5	18.88	18.92	18.92	19.5	19.5	19.5
		1732.5	18.94	18.92	18.95	19.5	19.5	19.5
		1712.5	18.80	18.82	18.85	19.5	19.5	19.5
	25RB_0	1752.5	18.90	18.95	18.87	19.5	19.5	19.5
		1732.5	18.93	18.93	18.94	19.5	19.5	19.5
		1712.5	18.82	18.88	18.87	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	18.85	19.15	18.99	19.5	19.5	19.5
		1732.5	18.87	19.26	18.94	19.5	19.5	19.5
		1715.0	18.80	19.27	19.05	19.5	19.5	19.5
	1RB_24	1750.0	19.03	19.30	19.16	19.5	19.5	19.5
		1732.5	19.00	19.47	19.19	19.5	19.5	19.5
		1715.0	18.90	19.38	19.11	19.5	19.5	19.5
	1RB_0	1750.0	18.87	19.20	19.07	19.5	19.5	19.5
		1732.5	18.98	19.36	19.07	19.5	19.5	19.5
		1715.0	18.66	19.25	19.04	19.5	19.5	19.5
	25RB_25	1750.0	18.92	18.91	18.92	19.5	19.5	19.5
		1732.5	18.92	18.94	18.94	19.5	19.5	19.5
		1715.0	18.87	18.97	18.91	19.5	19.5	19.5
	25RB_12	1750.0	18.94	18.99	19.00	19.5	19.5	19.5
		1732.5	18.98	18.98	19.01	19.5	19.5	19.5
		1715.0	18.90	18.94	18.90	19.5	19.5	19.5
	25RB_0	1750.0	18.95	18.98	18.97	19.5	19.5	19.5
		1732.5	18.97	19.01	18.98	19.5	19.5	19.5
		1715.0	18.81	18.87	18.85	19.5	19.5	19.5
	50RB_0	1750.0	18.97	18.93	18.98	19.5	19.5	19.5
		1732.5	18.93	18.95	18.98	19.5	19.5	19.5
		1715.0	18.81	18.92	18.92	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	18.83	19.12	18.95	19.5	19.5	19.5
		1732.5	18.85	19.24	18.87	19.5	19.5	19.5
		1717.5	18.77	19.16	19.00	19.5	19.5	19.5
	1RB_37	1747.5	18.94	19.29	19.17	19.5	19.5	19.5
		1732.5	18.93	19.27	19.08	19.5	19.5	19.5
		1717.5	18.85	19.28	19.08	19.5	19.5	19.5
	1RB_0	1747.5	18.90	19.23	19.09	19.5	19.5	19.5
		1732.5	18.89	19.24	19.02	19.5	19.5	19.5
		1717.5	18.72	19.15	19.02	19.5	19.5	19.5
	36RB_38	1747.5	18.95	18.96	18.97	19.5	19.5	19.5
		1732.5	18.97	18.97	18.99	19.5	19.5	19.5
		1717.5	18.86	18.90	18.92	19.5	19.5	19.5
	36RB_19	1747.5	18.98	19.01	19.01	19.5	19.5	19.5
		1732.5	18.97	18.96	19.01	19.5	19.5	19.5
		1717.5	18.90	18.88	18.92	19.5	19.5	19.5
	36RB_0	1747.5	18.96	18.97	18.97	19.5	19.5	19.5
		1732.5	18.95	18.95	18.97	19.5	19.5	19.5
		1717.5	18.85	18.86	18.92	19.5	19.5	19.5
	75RB_0	1747.5	18.95	18.98	18.98	19.5	19.5	19.5
		1732.5	18.96	18.97	18.96	19.5	19.5	19.5
		1717.5	18.86	18.90	18.90	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	18.59	18.97	18.90	19.5	19.5	19.5
		1732.5	18.63	19.05	18.84	19.5	19.5	19.5
		1720.0	18.74	19.00	18.80	19.5	19.5	19.5
	1RB_50	1745.0	19.04	19.37	19.26	19.5	19.5	19.5
		1732.5	19.05	19.40	19.25	19.5	19.5	19.5
		1720.0	18.98	19.30	19.16	19.5	19.5	19.5
	1RB_0	1745.0	18.72	19.12	19.02	19.5	19.5	19.5
		1732.5	18.67	19.11	18.87	19.5	19.5	19.5
		1720.0	18.60	18.94	18.77	19.5	19.5	19.5
	50RB_50	1745.0	18.95	19.01	18.96	19.5	19.5	19.5
		1732.5	18.96	18.98	18.99	19.5	19.5	19.5
		1720.0	18.87	18.95	18.96	19.5	19.5	19.5
	50RB_25	1745.0	18.97	19.03	19.02	19.5	19.5	19.5
		1732.5	18.98	19.01	18.99	19.5	19.5	19.5
		1720.0	18.90	18.94	18.93	19.5	19.5	19.5
	50RB_0	1745.0	18.96	18.99	18.98	19.5	19.5	19.5
		1732.5	18.96	19.00	19.00	19.5	19.5	19.5
		1720.0	18.82	18.84	18.87	19.5	19.5	19.5
	100RB_0	1745.0	18.99	18.97	19.01	19.5	19.5	19.5
		1732.5	18.97	19.00	19.01	19.5	19.5	19.5
		1720.0	18.92	18.96	18.91	19.5	19.5	19.5



Top Antenna - Reduced power level 2								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	18.41	18.63	18.66	19.0	19.0	19.0
		1732.5	18.40	18.77	18.64	19.0	19.0	19.0
		1710.7	18.31	18.64	18.40	19.0	19.0	19.0
	1RB_3	1754.3	18.52	18.85	18.79	19.0	19.0	19.0
		1732.5	18.55	18.85	18.66	19.0	19.0	19.0
		1710.7	18.36	18.72	18.56	19.0	19.0	19.0
	1RB_0	1754.3	18.39	18.70	18.71	19.0	19.0	19.0
		1732.5	18.42	18.65	18.57	19.0	19.0	19.0
		1710.7	18.26	18.73	18.50	19.0	19.0	19.0
	3RB_3	1754.3	18.47	18.53	18.69	19.0	19.0	19.0
		1732.5	18.44	18.59	18.66	19.0	19.0	19.0
		1710.7	18.38	18.46	18.64	19.0	19.0	19.0
	3RB_1	1754.3	18.52	18.58	18.67	19.0	19.0	19.0
		1732.5	18.54	18.55	18.69	19.0	19.0	19.0
		1710.7	18.39	18.53	18.66	19.0	19.0	19.0
	3RB_0	1754.3	18.46	18.52	18.58	19.0	19.0	19.0
		1732.5	18.53	18.56	18.63	19.0	19.0	19.0
		1710.7	18.38	18.46	18.51	19.0	19.0	19.0
	6RB_0	1754.3	18.47	18.57	18.50	19.0	19.0	19.0
		1732.5	18.47	18.61	18.50	19.0	19.0	19.0
		1710.7	18.40	18.50	18.34	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	18.38	18.74	18.63	19.0	19.0	19.0
		1732.5	18.38	18.78	18.68	19.0	19.0	19.0
		1711.5	18.29	18.69	18.64	19.0	19.0	19.0
	1RB_7	1753.5	18.56	18.93	18.76	19.0	19.0	19.0
		1732.5	18.61	18.94	18.74	19.0	19.0	19.0
		1711.5	18.51	18.78	18.78	19.0	19.0	19.0
	1RB_0	1753.5	18.43	18.68	18.57	19.0	19.0	19.0
		1732.5	18.46	18.76	18.62	19.0	19.0	19.0
		1711.5	18.32	18.63	18.55	19.0	19.0	19.0
	8RB_7	1753.5	18.42	18.50	18.45	19.0	19.0	19.0
		1732.5	18.49	18.51	18.47	19.0	19.0	19.0
		1711.5	18.37	18.39	18.30	19.0	19.0	19.0
	8RB_4	1753.5	18.46	18.51	18.55	19.0	19.0	19.0
		1732.5	18.43	18.54	18.57	19.0	19.0	19.0
		1711.5	18.28	18.39	18.37	19.0	19.0	19.0
	8RB_0	1753.5	18.45	18.47	18.49	19.0	19.0	19.0
		1732.5	18.43	18.53	18.46	19.0	19.0	19.0
		1711.5	18.32	18.46	18.36	19.0	19.0	19.0
	15RB_0	1753.5	18.39	18.49	18.45	19.0	19.0	19.0
		1732.5	18.39	18.48	18.45	19.0	19.0	19.0
		1711.5	18.35	18.34	18.39	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	18.27	18.66	18.51	19.0	19.0	19.0
		1732.5	18.23	18.65	18.41	19.0	19.0	19.0
		1712.5	18.20	18.53	18.38	19.0	19.0	19.0
	1RB_12	1752.5	18.58	18.92	18.65	19.0	19.0	19.0
		1732.5	18.56	18.91	18.76	19.0	19.0	19.0
		1712.5	18.30	18.99	18.64	19.0	19.0	19.0
	1RB_0	1752.5	18.31	18.73	18.50	19.0	19.0	19.0
		1732.5	18.34	18.68	18.46	19.0	19.0	19.0
		1712.5	18.11	18.58	18.37	19.0	19.0	19.0
	12RB_13	1752.5	18.38	18.37	18.37	19.0	19.0	19.0
		1732.5	18.32	18.44	18.41	19.0	19.0	19.0
		1712.5	18.31	18.34	18.39	19.0	19.0	19.0
	12RB_6	1752.5	18.45	18.45	18.47	19.0	19.0	19.0
		1732.5	18.48	18.51	18.53	19.0	19.0	19.0
		1712.5	18.33	18.39	18.41	19.0	19.0	19.0
	12RB_0	1752.5	18.41	18.37	18.45	19.0	19.0	19.0
		1732.5	18.48	18.41	18.42	19.0	19.0	19.0
		1712.5	18.31	18.29	18.32	19.0	19.0	19.0
	25RB_0	1752.5	18.43	18.40	18.40	19.0	19.0	19.0
		1732.5	18.43	18.42	18.42	19.0	19.0	19.0
		1712.5	18.35	18.34	18.41	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	18.39	18.62	18.48	19.0	19.0	19.0
		1732.5	18.38	18.78	18.47	19.0	19.0	19.0
		1715.0	18.27	18.73	18.54	19.0	19.0	19.0
	1RB_24	1750.0	18.48	18.78	18.62	19.0	19.0	19.0
		1732.5	18.46	18.93	18.72	19.0	19.0	19.0
		1715.0	18.38	18.87	18.58	19.0	19.0	19.0
	1RB_0	1750.0	18.33	18.66	18.58	19.0	19.0	19.0
		1732.5	18.47	18.82	18.56	19.0	19.0	19.0
		1715.0	18.20	18.77	18.49	19.0	19.0	19.0
	25RB_25	1750.0	18.45	18.45	18.42	19.0	19.0	19.0
		1732.5	18.40	18.42	18.46	19.0	19.0	19.0
		1715.0	18.36	18.51	18.36	19.0	19.0	19.0
	25RB_12	1750.0	18.48	18.50	18.48	19.0	19.0	19.0
		1732.5	18.48	18.47	18.56	19.0	19.0	19.0
		1715.0	18.36	18.48	18.36	19.0	19.0	19.0
	25RB_0	1750.0	18.48	18.49	18.46	19.0	19.0	19.0
		1732.5	18.44	18.53	18.46	19.0	19.0	19.0
		1715.0	18.29	18.33	18.39	19.0	19.0	19.0
	50RB_0	1750.0	18.47	18.48	18.46	19.0	19.0	19.0
		1732.5	18.39	18.45	18.49	19.0	19.0	19.0
		1715.0	18.34	18.38	18.46	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	18.38	18.61	18.47	19.0	19.0	19.0
		1732.5	18.31	18.76	18.40	19.0	19.0	19.0
		1717.5	18.24	18.64	18.53	19.0	19.0	19.0
	1RB_37	1747.5	18.43	18.82	18.70	19.0	19.0	19.0
		1732.5	18.45	18.82	18.57	19.0	19.0	19.0
		1717.5	18.30	18.79	18.57	19.0	19.0	19.0
	1RB_0	1747.5	18.37	18.76	18.58	19.0	19.0	19.0
		1732.5	18.37	18.72	18.49	19.0	19.0	19.0
		1717.5	18.20	18.68	18.55	19.0	19.0	19.0
	36RB_38	1747.5	18.45	18.41	18.48	19.0	19.0	19.0
		1732.5	18.46	18.47	18.51	19.0	19.0	19.0
		1717.5	18.34	18.37	18.46	19.0	19.0	19.0
	36RB_19	1747.5	18.52	18.54	18.55	19.0	19.0	19.0
		1732.5	18.43	18.46	18.51	19.0	19.0	19.0
		1717.5	18.39	18.42	18.43	19.0	19.0	19.0
	36RB_0	1747.5	18.48	18.49	18.50	19.0	19.0	19.0
		1732.5	18.41	18.50	18.52	19.0	19.0	19.0
		1717.5	18.34	18.38	18.37	19.0	19.0	19.0
	75RB_0	1747.5	18.44	18.45	18.45	19.0	19.0	19.0
		1732.5	18.45	18.51	18.47	19.0	19.0	19.0
		1717.5	18.36	18.38	18.39	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	18.12	18.44	18.42	19.0	19.0	19.0
		1732.5	18.11	18.58	18.29	19.0	19.0	19.0
		1720.0	18.20	18.48	18.26	19.0	19.0	19.0
	1RB_50	1745.0	18.58	18.82	18.78	19.0	19.0	19.0
		1732.5	18.59	18.88	18.76	19.0	19.0	19.0
		1720.0	18.52	18.76	18.66	19.0	19.0	19.0
	1RB_0	1745.0	18.21	18.66	18.53	19.0	19.0	19.0
		1732.5	18.21	18.62	18.33	19.0	19.0	19.0
		1720.0	18.06	18.49	18.29	19.0	19.0	19.0
	50RB_50	1745.0	18.44	18.48	18.42	19.0	19.0	19.0
		1732.5	18.44	18.51	18.54	19.0	19.0	19.0
		1720.0	18.36	18.42	18.47	19.0	19.0	19.0
	50RB_25	1745.0	18.46	18.52	18.52	19.0	19.0	19.0
		1732.5	18.51	18.56	18.53	19.0	19.0	19.0
		1720.0	18.38	18.41	18.44	19.0	19.0	19.0
	50RB_0	1745.0	18.45	18.51	18.48	19.0	19.0	19.0
		1732.5	18.51	18.53	18.50	19.0	19.0	19.0
		1720.0	18.33	18.37	18.34	19.0	19.0	19.0
	100RB_0	1745.0	18.49	18.49	18.52	19.0	19.0	19.0
		1732.5	18.47	18.52	18.48	19.0	19.0	19.0
		1720.0	18.42	18.45	18.41	19.0	19.0	19.0



Top Antenna - Reduced power level 3								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	22.86	22.69	21.59	23.5	23.0	22.0
		1732.5	22.97	22.70	21.69	23.5	23.0	22.0
		1710.7	22.83	22.63	21.39	23.5	23.0	22.0
	1RB_3	1754.3	22.98	22.71	21.85	23.5	23.0	22.0
		1732.5	23.13	22.86	21.79	23.5	23.0	22.0
		1710.7	22.92	22.74	21.55	23.5	23.0	22.0
	1RB_0	1754.3	22.91	22.61	21.66	23.5	23.0	22.0
		1732.5	22.95	22.70	21.70	23.5	23.0	22.0
		1710.7	22.85	22.58	21.45	23.5	23.0	22.0
	3RB_3	1754.3	23.00	22.51	21.58	23.5	23.0	22.0
		1732.5	23.03	22.55	21.67	23.5	23.0	22.0
		1710.7	22.90	22.44	21.52	23.5	23.0	22.0
	3RB_1	1754.3	23.02	22.58	21.67	23.5	23.0	22.0
		1732.5	23.09	22.66	21.72	23.5	23.0	22.0
		1710.7	22.96	22.54	21.54	23.5	23.0	22.0
	3RB_0	1754.3	23.01	22.53	21.58	23.5	23.0	22.0
		1732.5	23.06	22.54	21.65	23.5	23.0	22.0
		1710.7	22.92	22.39	21.56	23.5	23.0	22.0
	6RB_0	1754.3	22.48	21.60	20.44	23.0	22.0	21.0
		1732.5	22.56	21.62	20.52	23.0	22.0	21.0
		1710.7	22.44	21.54	20.37	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	22.91	22.74	21.57	23.5	23.0	22.0
		1732.5	22.92	22.75	21.62	23.5	23.0	22.0
		1711.5	22.85	22.76	21.59	23.5	23.0	22.0
	1RB_7	1753.5	23.00	22.87	21.82	23.5	23.0	22.0
		1732.5	23.11	22.94	21.83	23.5	23.0	22.0
		1711.5	22.93	22.79	21.81	23.5	23.0	22.0
	1RB_0	1753.5	22.89	22.79	21.58	23.5	23.0	22.0
		1732.5	22.97	22.73	21.64	23.5	23.0	22.0
		1711.5	22.87	22.59	21.54	23.5	23.0	22.0
	8RB_7	1753.5	22.43	21.47	20.47	23.0	22.0	21.0
		1732.5	22.51	21.52	20.46	23.0	22.0	21.0
		1711.5	22.36	21.42	20.37	23.0	22.0	21.0
	8RB_4	1753.5	22.47	21.48	20.46	23.0	22.0	21.0
		1732.5	22.49	21.57	20.54	23.0	22.0	21.0
		1711.5	22.41	21.46	20.36	23.0	22.0	21.0
	8RB_0	1753.5	22.43	21.48	20.47	23.0	22.0	21.0
		1732.5	22.50	21.55	20.52	23.0	22.0	21.0
		1711.5	22.37	21.46	20.36	23.0	22.0	21.0
	15RB_0	1753.5	22.42	21.46	20.44	23.0	22.0	21.0
		1732.5	22.48	21.54	20.52	23.0	22.0	21.0
		1711.5	22.39	21.40	20.36	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	22.77	22.46	21.52	23.5	23.0	22.0
		1732.5	22.83	22.59	21.54	23.5	23.0	22.0
		1712.5	22.71	22.44	21.41	23.5	23.0	22.0
	1RB_12	1752.5	23.03	22.83	21.77	23.5	23.0	22.0
		1732.5	23.09	22.80	21.78	23.5	23.0	22.0
		1712.5	23.06	22.77	21.73	23.5	23.0	22.0
	1RB_0	1752.5	22.83	22.52	21.50	23.5	23.0	22.0
		1732.5	22.84	22.56	21.56	23.5	23.0	22.0
		1712.5	22.73	22.50	21.41	23.5	23.0	22.0
	12RB_13	1752.5	22.44	21.46	20.42	23.0	22.0	21.0
		1732.5	22.46	21.47	20.44	23.0	22.0	21.0
		1712.5	22.41	21.40	20.41	23.0	22.0	21.0
	12RB_6	1752.5	22.51	21.55	20.51	23.0	22.0	21.0
		1732.5	22.56	21.56	20.50	23.0	22.0	21.0
		1712.5	22.43	21.39	20.38	23.0	22.0	21.0
	12RB_0	1752.5	22.43	21.48	20.42	23.0	22.0	21.0
		1732.5	22.48	21.48	20.45	23.0	22.0	21.0
		1712.5	22.34	21.32	20.34	23.0	22.0	21.0
	25RB_0	1752.5	22.47	21.46	20.46	23.0	22.0	21.0
		1732.5	22.52	21.49	20.46	23.0	22.0	21.0
		1712.5	22.36	21.36	20.33	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	22.88	22.72	21.62	23.5	23.0	22.0
		1732.5	22.88	22.74	21.60	23.5	23.0	22.0
		1715.0	22.87	22.68	21.60	23.5	23.0	22.0
	1RB_24	1750.0	23.07	22.81	21.75	23.5	23.0	22.0
		1732.5	23.08	22.88	21.81	23.5	23.0	22.0
		1715.0	22.92	22.77	21.64	23.5	23.0	22.0
	1RB_0	1750.0	22.99	22.75	21.68	23.5	23.0	22.0
		1732.5	23.01	22.83	21.74	23.5	23.0	22.0
		1715.0	22.88	22.61	21.52	23.5	23.0	22.0
	25RB_25	1750.0	22.51	21.53	20.48	23.0	22.0	21.0
		1732.5	22.54	21.53	20.47	23.0	22.0	21.0
		1715.0	22.44	21.42	20.44	23.0	22.0	21.0
	25RB_12	1750.0	22.50	21.55	20.50	23.0	22.0	21.0
		1732.5	22.54	21.52	20.52	23.0	22.0	21.0
		1715.0	22.40	21.43	20.44	23.0	22.0	21.0
	25RB_0	1750.0	22.55	21.54	20.49	23.0	22.0	21.0
		1732.5	22.53	21.52	20.50	23.0	22.0	21.0
		1715.0	22.36	21.31	20.33	23.0	22.0	21.0
	50RB_0	1750.0	22.52	21.51	20.47	23.0	22.0	21.0
		1732.5	22.53	21.51	20.49	23.0	22.0	21.0
		1715.0	22.41	21.42	20.40	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	22.76	22.63	21.36	23.5	23.0	22.0
		1732.5	22.84	22.73	21.52	23.5	23.0	22.0
		1717.5	22.74	22.62	21.57	23.5	23.0	22.0
	1RB_37	1747.5	22.95	22.82	21.54	23.5	23.0	22.0
		1732.5	22.97	22.85	21.66	23.5	23.0	22.0
		1717.5	22.88	22.73	21.65	23.5	23.0	22.0
	1RB_0	1747.5	22.88	22.78	21.49	23.5	23.0	22.0
		1732.5	22.93	22.79	21.59	23.5	23.0	22.0
		1717.5	22.75	22.62	21.53	23.5	23.0	22.0
	36RB_38	1747.5	22.50	21.49	20.53	23.0	22.0	21.0
		1732.5	22.57	21.51	20.53	23.0	22.0	21.0
		1717.5	22.46	21.45	20.42	23.0	22.0	21.0
	36RB_19	1747.5	22.57	21.54	20.53	23.0	22.0	21.0
		1732.5	22.51	21.52	20.52	23.0	22.0	21.0
		1717.5	22.44	21.44	20.40	23.0	22.0	21.0
	36RB_0	1747.5	22.52	21.50	20.47	23.0	22.0	21.0
		1732.5	22.49	21.50	20.46	23.0	22.0	21.0
		1717.5	22.42	21.42	20.33	23.0	22.0	21.0
	75RB_0	1747.5	22.49	21.52	20.48	23.0	22.0	21.0
		1732.5	22.51	21.53	20.48	23.0	22.0	21.0
		1717.5	22.43	21.42	20.37	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	22.61	22.30	21.20	23.5	23.0	22.0
		1732.5	22.64	22.28	21.27	23.5	23.0	22.0
		1720.0	22.67	22.38	21.21	23.5	23.0	22.0
	1RB_50	1745.0	23.03	22.74	21.62	23.5	23.0	22.0
		1732.5	22.99	22.70	21.64	23.5	23.0	22.0
		1720.0	22.95	22.75	21.55	23.5	23.0	22.0
	1RB_0	1745.0	22.76	22.46	21.35	23.5	23.0	22.0
		1732.5	22.66	22.36	21.25	23.5	23.0	22.0
		1720.0	22.57	22.37	21.22	23.5	23.0	22.0
	50RB_50	1745.0	22.54	21.53	20.48	23.0	22.0	21.0
		1732.5	22.53	21.54	20.52	23.0	22.0	21.0
		1720.0	22.41	21.44	20.44	23.0	22.0	21.0
	50RB_25	1745.0	22.47	21.53	20.46	23.0	22.0	21.0
		1732.5	22.50	21.54	20.53	23.0	22.0	21.0
		1720.0	22.40	21.44	20.38	23.0	22.0	21.0
	50RB_0	1745.0	22.52	21.51	20.47	23.0	22.0	21.0
		1732.5	22.47	21.52	20.47	23.0	22.0	21.0
		1720.0	22.33	21.36	20.35	23.0	22.0	21.0
	100RB_0	1745.0	22.48	21.48	20.47	23.0	22.0	21.0
		1732.5	22.50	21.46	20.51	23.0	22.0	21.0
		1720.0	22.37	21.46	20.39	23.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	21.32	21.62	21.48	22.0	22.0	22.0
		1732.5	21.31	21.61	21.60	22.0	22.0	22.0
		1710.7	21.22	21.53	21.53	22.0	22.0	22.0
	1RB_3	1754.3	21.44	21.77	21.66	22.0	22.0	22.0
		1732.5	21.46	21.76	21.70	22.0	22.0	22.0
		1710.7	21.37	21.64	21.61	22.0	22.0	22.0
	1RB_0	1754.3	21.29	21.62	21.55	22.0	22.0	22.0
		1732.5	21.35	21.60	21.61	22.0	22.0	22.0
		1710.7	21.22	21.55	21.50	22.0	22.0	22.0
	3RB_3	1754.3	21.45	21.46	21.56	22.0	22.0	22.0
		1732.5	21.47	21.55	21.61	22.0	22.0	22.0
		1710.7	21.40	21.37	21.52	22.0	22.0	22.0
	3RB_1	1754.3	21.47	21.47	21.63	22.0	22.0	22.0
		1732.5	21.45	21.60	21.73	22.0	22.0	22.0
		1710.7	21.36	21.44	21.62	22.0	22.0	22.0
	3RB_0	1754.3	21.40	21.45	21.56	22.0	22.0	22.0
		1732.5	21.45	21.49	21.59	22.0	22.0	22.0
		1710.7	21.33	21.34	21.48	22.0	22.0	22.0
	6RB_0	1754.3	21.42	21.53	20.43	22.0	22.0	21.0
		1732.5	21.46	21.62	20.46	22.0	22.0	21.0
		1710.7	21.39	21.45	20.36	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	21.30	21.63	21.57	22.0	22.0	22.0
		1732.5	21.37	21.72	21.47	22.0	22.0	22.0
		1711.5	21.29	21.66	21.47	22.0	22.0	22.0
	1RB_7	1753.5	21.58	21.93	21.68	22.0	22.0	22.0
		1732.5	21.57	21.90	21.66	22.0	22.0	22.0
		1711.5	21.53	21.74	21.61	22.0	22.0	22.0
	1RB_0	1753.5	21.35	21.65	21.54	22.0	22.0	22.0
		1732.5	21.39	21.75	21.52	22.0	22.0	22.0
		1711.5	21.28	21.65	21.44	22.0	22.0	22.0
	8RB_7	1753.5	21.34	21.43	20.41	22.0	22.0	21.0
		1732.5	21.37	21.45	20.46	22.0	22.0	21.0
		1711.5	21.24	21.39	20.39	22.0	22.0	21.0
	8RB_4	1753.5	21.39	21.49	20.44	22.0	22.0	21.0
		1732.5	21.41	21.52	20.52	22.0	22.0	21.0
		1711.5	21.28	21.42	20.35	22.0	22.0	21.0
	8RB_0	1753.5	21.38	21.47	20.45	22.0	22.0	21.0
		1732.5	21.42	21.47	20.44	22.0	22.0	21.0
		1711.5	21.28	21.37	20.35	22.0	22.0	21.0
	15RB_0	1753.5	21.40	21.38	20.33	22.0	22.0	21.0
		1732.5	21.41	21.42	20.39	22.0	22.0	21.0
		1711.5	21.30	21.28	20.29	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	21.17	21.53	21.44	22.0	22.0	22.0
		1732.5	21.24	21.55	21.38	22.0	22.0	22.0
		1712.5	21.16	21.48	21.28	22.0	22.0	22.0
	1RB_12	1752.5	21.45	21.83	21.72	22.0	22.0	22.0
		1732.5	21.61	21.90	21.65	22.0	22.0	22.0
		1712.5	21.48	21.77	21.65	22.0	22.0	22.0
	1RB_0	1752.5	21.27	21.57	21.45	22.0	22.0	22.0
		1732.5	21.29	21.69	21.42	22.0	22.0	22.0
		1712.5	21.14	21.47	21.26	22.0	22.0	22.0
	12RB_13	1752.5	21.36	21.37	20.34	22.0	22.0	21.0
		1732.5	21.39	21.40	20.43	22.0	22.0	21.0
		1712.5	21.32	21.39	20.34	22.0	22.0	21.0
	12RB_6	1752.5	21.47	21.42	20.40	22.0	22.0	21.0
		1732.5	21.45	21.48	20.42	22.0	22.0	21.0
		1712.5	21.34	21.35	20.29	22.0	22.0	21.0
	12RB_0	1752.5	21.38	21.38	20.36	22.0	22.0	21.0
		1732.5	21.38	21.43	20.36	22.0	22.0	21.0
		1712.5	21.26	21.28	20.26	22.0	22.0	21.0
	25RB_0	1752.5	21.37	21.37	20.40	22.0	22.0	21.0
		1732.5	21.42	21.39	20.44	22.0	22.0	21.0
		1712.5	21.31	21.26	20.29	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	21.30	21.63	21.51	22.0	22.0	22.0
		1732.5	21.32	21.68	21.61	22.0	22.0	22.0
		1715.0	21.31	21.62	21.57	22.0	22.0	22.0
	1RB_24	1750.0	21.47	21.80	21.72	22.0	22.0	22.0
		1732.5	21.49	21.90	21.79	22.0	22.0	22.0
		1715.0	21.34	21.72	21.55	22.0	22.0	22.0
	1RB_0	1750.0	21.36	21.72	21.61	22.0	22.0	22.0
		1732.5	21.37	21.75	21.69	22.0	22.0	22.0
		1715.0	21.27	21.60	21.42	22.0	22.0	22.0
	25RB_25	1750.0	21.44	21.46	20.43	22.0	22.0	21.0
		1732.5	21.47	21.48	20.46	22.0	22.0	21.0
		1715.0	21.41	21.44	20.39	22.0	22.0	21.0
	25RB_12	1750.0	21.46	21.48	20.42	22.0	22.0	21.0
		1732.5	21.43	21.52	20.47	22.0	22.0	21.0
		1715.0	21.34	21.41	20.36	22.0	22.0	21.0
	25RB_0	1750.0	21.43	21.47	20.43	22.0	22.0	21.0
		1732.5	21.46	21.48	20.45	22.0	22.0	21.0
		1715.0	21.30	21.34	20.27	22.0	22.0	21.0
	50RB_0	1750.0	21.50	21.46	20.46	22.0	22.0	21.0
		1732.5	21.42	21.50	20.45	22.0	22.0	21.0
		1715.0	21.37	21.35	20.34	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	21.17	21.54	21.33	22.0	22.0	22.0
		1732.5	21.27	21.59	21.41	22.0	22.0	22.0
		1717.5	21.24	21.59	21.43	22.0	22.0	22.0
	1RB_37	1747.5	21.42	21.73	21.48	22.0	22.0	22.0
		1732.5	21.40	21.76	21.60	22.0	22.0	22.0
		1717.5	21.29	21.66	21.55	22.0	22.0	22.0
	1RB_0	1747.5	21.34	21.68	21.41	22.0	22.0	22.0
		1732.5	21.32	21.67	21.49	22.0	22.0	22.0
		1717.5	21.22	21.55	21.41	22.0	22.0	22.0
	36RB_38	1747.5	21.45	21.41	20.43	22.0	22.0	21.0
		1732.5	21.47	21.45	20.50	22.0	22.0	21.0
		1717.5	21.40	21.37	20.42	22.0	22.0	21.0
	36RB_19	1747.5	21.51	21.45	20.47	22.0	22.0	21.0
		1732.5	21.51	21.43	20.45	22.0	22.0	21.0
		1717.5	21.40	21.38	20.37	22.0	22.0	21.0
	36RB_0	1747.5	21.46	21.40	20.47	22.0	22.0	21.0
		1732.5	21.47	21.44	20.44	22.0	22.0	21.0
		1717.5	21.34	21.32	20.29	22.0	22.0	21.0
	75RB_0	1747.5	21.45	21.48	20.46	22.0	22.0	21.0
		1732.5	21.47	21.50	20.44	22.0	22.0	21.0
		1717.5	21.36	21.37	20.34	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	20.99	21.33	21.34	22.0	22.0	22.0
		1732.5	21.01	21.44	21.31	22.0	22.0	22.0
		1720.0	21.07	21.34	21.30	22.0	22.0	22.0
	1RB_50	1745.0	21.50	21.77	21.79	22.0	22.0	22.0
		1732.5	21.46	21.84	21.68	22.0	22.0	22.0
		1720.0	21.38	21.71	21.66	22.0	22.0	22.0
	1RB_0	1745.0	21.16	21.46	21.45	22.0	22.0	22.0
		1732.5	21.11	21.47	21.34	22.0	22.0	22.0
		1720.0	21.07	21.27	21.24	22.0	22.0	22.0
	50RB_50	1745.0	21.52	21.46	20.45	22.0	22.0	21.0
		1732.5	21.51	21.49	20.48	22.0	22.0	21.0
		1720.0	21.42	21.39	20.43	22.0	22.0	21.0
	50RB_25	1745.0	21.50	21.46	20.43	22.0	22.0	21.0
		1732.5	21.45	21.50	20.44	22.0	22.0	21.0
		1720.0	21.36	21.38	20.39	22.0	22.0	21.0
	50RB_0	1745.0	21.47	21.44	20.46	22.0	22.0	21.0
		1732.5	21.44	21.43	20.42	22.0	22.0	21.0
		1720.0	21.30	21.31	20.29	22.0	22.0	21.0
	100RB_0	1745.0	21.42	21.46	20.44	22.0	22.0	21.0
		1732.5	21.50	21.47	20.46	22.0	22.0	21.0
		1720.0	21.34	21.36	20.32	22.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	22.51	22.33	21.23	23.5	23.0	22.0
		1732.5	22.55	22.40	21.33	23.5	23.0	22.0
		1710.7	22.50	22.22	21.24	23.5	23.0	22.0
	1RB_3	1754.3	22.68	22.45	21.40	23.5	23.0	22.0
		1732.5	22.73	22.49	21.50	23.5	23.0	22.0
		1710.7	22.58	22.37	21.34	23.5	23.0	22.0
	1RB_0	1754.3	22.58	22.32	21.26	23.5	23.0	22.0
		1732.5	22.60	22.34	21.36	23.5	23.0	22.0
		1710.7	22.47	22.22	21.17	23.5	23.0	22.0
	3RB_3	1754.3	22.61	22.06	21.27	23.5	23.0	22.0
		1732.5	22.70	22.15	21.27	23.5	23.0	22.0
		1710.7	22.56	22.10	21.15	23.5	23.0	22.0
	3RB_1	1754.3	22.66	22.15	21.38	23.5	23.0	22.0
		1732.5	22.73	22.24	21.32	23.5	23.0	22.0
		1710.7	22.60	22.16	21.21	23.5	23.0	22.0
	3RB_0	1754.3	22.66	22.12	21.28	23.5	23.0	22.0
		1732.5	22.68	22.18	21.32	23.5	23.0	22.0
		1710.7	22.55	22.06	21.17	23.5	23.0	22.0
	6RB_0	1754.3	22.11	21.25	20.06	23.0	22.0	21.0
		1732.5	22.20	21.28	20.14	23.0	22.0	21.0
		1710.7	22.07	21.17	19.99	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	22.52	22.26	21.13	23.5	23.0	22.0
		1732.5	22.61	22.44	21.23	23.5	23.0	22.0
		1711.5	22.50	22.32	21.22	23.5	23.0	22.0
	1RB_7	1753.5	22.65	22.46	21.44	23.5	23.0	22.0
		1732.5	22.72	22.57	21.49	23.5	23.0	22.0
		1711.5	22.67	22.48	21.41	23.5	23.0	22.0
	1RB_0	1753.5	22.53	22.29	21.14	23.5	23.0	22.0
		1732.5	22.61	22.49	21.25	23.5	23.0	22.0
		1711.5	22.48	22.33	21.18	23.5	23.0	22.0
	8RB_7	1753.5	22.06	21.09	20.07	23.0	22.0	21.0
		1732.5	22.06	21.20	20.15	23.0	22.0	21.0
		1711.5	22.01	21.10	20.02	23.0	22.0	21.0
	8RB_4	1753.5	22.10	21.14	20.11	23.0	22.0	21.0
		1732.5	22.15	21.19	20.13	23.0	22.0	21.0
		1711.5	22.04	21.11	20.02	23.0	22.0	21.0
	8RB_0	1753.5	22.07	21.11	20.09	23.0	22.0	21.0
		1732.5	22.14	21.20	20.11	23.0	22.0	21.0
		1711.5	22.01	21.07	20.02	23.0	22.0	21.0
	15RB_0	1753.5	22.06	21.06	20.03	23.0	22.0	21.0
		1732.5	22.12	21.16	20.09	23.0	22.0	21.0
		1711.5	22.01	21.05	19.99	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	22.41	22.14	21.10	23.5	23.0	22.0
		1732.5	22.44	22.16	21.17	23.5	23.0	22.0
		1712.5	22.39	22.12	21.08	23.5	23.0	22.0
	1RB_12	1752.5	22.72	22.44	21.25	23.5	23.0	22.0
		1732.5	22.76	22.47	21.44	23.5	23.0	22.0
		1712.5	22.68	22.30	21.23	23.5	23.0	22.0
	1RB_0	1752.5	22.43	22.22	21.15	23.5	23.0	22.0
		1732.5	22.52	22.22	21.22	23.5	23.0	22.0
		1712.5	22.41	22.08	21.01	23.5	23.0	22.0
	12RB_13	1752.5	22.06	21.07	20.02	23.0	22.0	21.0
		1732.5	22.12	21.14	20.15	23.0	22.0	21.0
		1712.5	22.04	21.05	20.06	23.0	22.0	21.0
	12RB_6	1752.5	22.13	21.16	20.10	23.0	22.0	21.0
		1732.5	22.17	21.20	20.21	23.0	22.0	21.0
		1712.5	22.10	21.06	20.05	23.0	22.0	21.0
	12RB_0	1752.5	22.09	21.08	20.05	23.0	22.0	21.0
		1732.5	22.13	21.18	20.12	23.0	22.0	21.0
		1712.5	21.98	20.98	19.98	23.0	22.0	21.0
	25RB_0	1752.5	22.09	21.09	20.02	23.0	22.0	21.0
		1732.5	22.15	21.14	20.11	23.0	22.0	21.0
		1712.5	22.06	21.02	19.98	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	22.49	22.29	21.23	23.5	23.0	22.0
		1732.5	22.53	22.32	21.28	23.5	23.0	22.0
		1715.0	22.54	22.33	21.24	23.5	23.0	22.0
	1RB_24	1750.0	22.69	22.48	21.47	23.5	23.0	22.0
		1732.5	22.71	22.57	21.47	23.5	23.0	22.0
		1715.0	22.59	22.49	21.36	23.5	23.0	22.0
	1RB_0	1750.0	22.55	22.40	21.32	23.5	23.0	22.0
		1732.5	22.61	22.41	21.38	23.5	23.0	22.0
		1715.0	22.56	22.29	21.22	23.5	23.0	22.0
	25RB_25	1750.0	22.15	21.13	20.12	23.0	22.0	21.0
		1732.5	22.18	21.15	20.14	23.0	22.0	21.0
		1715.0	22.08	21.09	20.05	23.0	22.0	21.0
	25RB_12	1750.0	22.16	21.12	20.11	23.0	22.0	21.0
		1732.5	22.13	21.20	20.16	23.0	22.0	21.0
		1715.0	22.06	21.08	20.02	23.0	22.0	21.0
	25RB_0	1750.0	22.18	21.20	20.10	23.0	22.0	21.0
		1732.5	22.18	21.18	20.17	23.0	22.0	21.0
		1715.0	22.03	21.02	20.02	23.0	22.0	21.0
	50RB_0	1750.0	22.18	21.14	20.15	23.0	22.0	21.0
		1732.5	22.13	21.22	20.15	23.0	22.0	21.0
		1715.0	22.04	21.06	20.06	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	22.41	22.18	21.05	23.5	23.0	22.0
		1732.5	22.47	22.31	21.05	23.5	23.0	22.0
		1717.5	22.45	22.35	21.14	23.5	23.0	22.0
	1RB_37	1747.5	22.63	22.37	21.23	23.5	23.0	22.0
		1732.5	22.62	22.51	21.22	23.5	23.0	22.0
		1717.5	22.52	22.45	21.23	23.5	23.0	22.0
	1RB_0	1747.5	22.57	22.31	21.13	23.5	23.0	22.0
		1732.5	22.54	22.45	21.14	23.5	23.0	22.0
		1717.5	22.45	22.32	21.15	23.5	23.0	22.0
	36RB_38	1747.5	22.15	21.13	20.13	23.0	22.0	21.0
		1732.5	22.21	21.15	20.17	23.0	22.0	21.0
		1717.5	22.10	21.09	20.10	23.0	22.0	21.0
	36RB_19	1747.5	22.19	21.17	20.13	23.0	22.0	21.0
		1732.5	22.15	21.15	20.16	23.0	22.0	21.0
		1717.5	22.12	21.10	20.08	23.0	22.0	21.0
	36RB_0	1747.5	22.17	21.13	20.16	23.0	22.0	21.0
		1732.5	22.16	21.10	20.14	23.0	22.0	21.0
		1717.5	22.08	21.07	20.04	23.0	22.0	21.0
	75RB_0	1747.5	22.17	21.14	20.11	23.0	22.0	21.0
		1732.5	22.17	21.17	20.17	23.0	22.0	21.0
		1717.5	22.09	21.08	20.06	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	22.25	22.02	20.98	23.5	23.0	22.0
		1732.5	22.29	21.94	20.96	23.5	23.0	22.0
		1720.0	22.32	22.04	20.98	23.5	23.0	22.0
	1RB_50	1745.0	22.74	22.43	21.33	23.5	23.0	22.0
		1732.5	22.72	22.36	21.40	23.5	23.0	22.0
		1720.0	22.70	22.38	21.30	23.5	23.0	22.0
	1RB_0	1745.0	22.43	22.24	21.08	23.5	23.0	22.0
		1732.5	22.32	21.99	20.98	23.5	23.0	22.0
		1720.0	22.29	21.93	20.86	23.5	23.0	22.0
	50RB_50	1745.0	22.17	21.14	20.17	23.0	22.0	21.0
		1732.5	22.17	21.17	20.17	23.0	22.0	21.0
		1720.0	22.05	21.06	20.07	23.0	22.0	21.0
	50RB_25	1745.0	22.18	21.17	20.15	23.0	22.0	21.0
		1732.5	22.16	21.17	20.13	23.0	22.0	21.0
		1720.0	22.09	21.12	20.08	23.0	22.0	21.0
	50RB_0	1745.0	22.15	21.17	20.12	23.0	22.0	21.0
		1732.5	22.15	21.15	20.11	23.0	22.0	21.0
		1720.0	22.04	21.04	20.05	23.0	22.0	21.0
	100RB_0	1745.0	22.14	21.11	20.14	23.0	22.0	21.0
		1732.5	22.16	21.14	20.17	23.0	22.0	21.0
		1720.0	22.04	21.07	20.07	23.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1754.3	20.55	20.85	20.65	21.5	21.5	21.5
		1732.5	20.61	20.88	20.75	21.5	21.5	21.5
		1710.7	20.50	20.78	20.66	21.5	21.5	21.5
	1RB_3	1754.3	20.67	20.94	20.75	21.5	21.5	21.5
		1732.5	20.72	21.01	20.89	21.5	21.5	21.5
		1710.7	20.64	20.92	20.86	21.5	21.5	21.5
	1RB_0	1754.3	20.56	20.89	20.63	21.5	21.5	21.5
		1732.5	20.63	20.89	20.82	21.5	21.5	21.5
		1710.7	20.47	20.86	20.66	21.5	21.5	21.5
	3RB_3	1754.3	20.67	20.63	20.69	21.5	21.5	21.5
		1732.5	20.72	20.72	20.75	21.5	21.5	21.5
		1710.7	20.61	20.56	20.69	21.5	21.5	21.5
	3RB_1	1754.3	20.69	20.70	20.78	21.5	21.5	21.5
		1732.5	20.79	20.77	20.83	21.5	21.5	21.5
		1710.7	20.63	20.64	20.76	21.5	21.5	21.5
	3RB_0	1754.3	20.71	20.65	20.70	21.5	21.5	21.5
		1732.5	20.72	20.73	20.81	21.5	21.5	21.5
		1710.7	20.65	20.57	20.71	21.5	21.5	21.5
	6RB_0	1754.3	20.67	20.80	20.17	21.5	21.5	21.0
		1732.5	20.70	20.81	20.26	21.5	21.5	21.0
		1710.7	20.61	20.71	20.13	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1753.5	20.56	20.82	20.73	21.5	21.5	21.5
		1732.5	20.60	20.87	20.70	21.5	21.5	21.5
		1711.5	20.54	20.89	20.55	21.5	21.5	21.5
	1RB_7	1753.5	20.71	20.90	20.77	21.5	21.5	21.5
		1732.5	20.78	21.06	20.87	21.5	21.5	21.5
		1711.5	20.70	20.98	20.75	21.5	21.5	21.5
	1RB_0	1753.5	20.58	20.85	20.67	21.5	21.5	21.5
		1732.5	20.64	20.88	20.70	21.5	21.5	21.5
		1711.5	20.54	20.88	20.61	21.5	21.5	21.5
	8RB_7	1753.5	20.64	20.63	20.09	21.5	21.5	21.0
		1732.5	20.70	20.69	20.20	21.5	21.5	21.0
		1711.5	20.54	20.66	20.10	21.5	21.5	21.0
	8RB_4	1753.5	20.67	20.69	20.12	21.5	21.5	21.0
		1732.5	20.71	20.76	20.23	21.5	21.5	21.0
		1711.5	20.57	20.64	20.16	21.5	21.5	21.0
	8RB_0	1753.5	20.60	20.67	20.09	21.5	21.5	21.0
		1732.5	20.65	20.73	20.19	21.5	21.5	21.0
		1711.5	20.54	20.71	20.16	21.5	21.5	21.0
	15RB_0	1753.5	20.64	20.60	20.11	21.5	21.5	21.0
		1732.5	20.68	20.68	20.14	21.5	21.5	21.0
		1711.5	20.56	20.59	20.03	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1752.5	20.42	20.72	20.57	21.5	21.5	21.5
		1732.5	20.54	20.80	20.78	21.5	21.5	21.5
		1712.5	20.47	20.76	20.62	21.5	21.5	21.5
	1RB_12	1752.5	20.83	20.98	20.93	21.5	21.5	21.5
		1732.5	20.81	21.05	20.97	21.5	21.5	21.5
		1712.5	20.74	21.06	20.92	21.5	21.5	21.5
	1RB_0	1752.5	20.48	20.77	20.66	21.5	21.5	21.5
		1732.5	20.57	20.89	20.84	21.5	21.5	21.5
		1712.5	20.45	20.76	20.58	21.5	21.5	21.5
	12RB_13	1752.5	20.63	20.59	20.13	21.5	21.5	21.0
		1732.5	20.67	20.64	20.22	21.5	21.5	21.0
		1712.5	20.59	20.58	20.11	21.5	21.5	21.0
	12RB_6	1752.5	20.69	20.62	20.23	21.5	21.5	21.0
		1732.5	20.75	20.68	20.29	21.5	21.5	21.0
		1712.5	20.59	20.58	20.13	21.5	21.5	21.0
	12RB_0	1752.5	20.65	20.62	20.13	21.5	21.5	21.0
		1732.5	20.67	20.66	20.20	21.5	21.5	21.0
		1712.5	20.54	20.54	20.05	21.5	21.5	21.0
	25RB_0	1752.5	20.68	20.65	20.10	21.5	21.5	21.0
		1732.5	20.67	20.70	20.19	21.5	21.5	21.0
		1712.5	20.57	20.60	20.11	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1750.0	20.53	20.75	20.54	21.5	21.5	21.5
		1732.5	20.61	20.96	20.76	21.5	21.5	21.5
		1715.0	20.60	20.97	20.73	21.5	21.5	21.5
	1RB_24	1750.0	20.74	20.96	20.78	21.5	21.5	21.5
		1732.5	20.73	21.15	20.95	21.5	21.5	21.5
		1715.0	20.61	21.07	20.82	21.5	21.5	21.5
	1RB_0	1750.0	20.63	20.84	20.74	21.5	21.5	21.5
		1732.5	20.66	21.06	20.82	21.5	21.5	21.5
		1715.0	20.53	20.92	20.72	21.5	21.5	21.5
	25RB_25	1750.0	20.72	20.71	20.18	21.5	21.5	21.0
		1732.5	20.75	20.75	20.25	21.5	21.5	21.0
		1715.0	20.66	20.68	20.15	21.5	21.5	21.0
	25RB_12	1750.0	20.71	20.62	20.23	21.5	21.5	21.0
		1732.5	20.75	20.75	20.20	21.5	21.5	21.0
		1715.0	20.61	20.68	20.14	21.5	21.5	21.0
	25RB_0	1750.0	20.73	20.69	20.22	21.5	21.5	21.0
		1732.5	20.78	20.78	20.20	21.5	21.5	21.0
		1715.0	20.58	20.66	20.12	21.5	21.5	21.0
	50RB_0	1750.0	20.75	20.70	20.22	21.5	21.5	21.0
		1732.5	20.74	20.76	20.26	21.5	21.5	21.0
		1715.0	20.65	20.65	20.10	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1747.5	20.46	20.67	20.65	21.5	21.5	21.5
		1732.5	20.51	20.72	20.64	21.5	21.5	21.5
		1717.5	20.50	20.67	20.56	21.5	21.5	21.5
	1RB_37	1747.5	20.68	20.80	20.77	21.5	21.5	21.5
		1732.5	20.69	20.89	20.83	21.5	21.5	21.5
		1717.5	20.61	20.74	20.71	21.5	21.5	21.5
	1RB_0	1747.5	20.59	20.78	20.74	21.5	21.5	21.5
		1732.5	20.60	20.80	20.77	21.5	21.5	21.5
		1717.5	20.52	20.67	20.57	21.5	21.5	21.5
	36RB_38	1747.5	20.71	20.65	20.19	21.5	21.5	21.0
		1732.5	20.79	20.70	20.23	21.5	21.5	21.0
		1717.5	20.69	20.62	20.17	21.5	21.5	21.0
	36RB_19	1747.5	20.73	20.67	20.22	21.5	21.5	21.0
		1732.5	20.71	20.73	20.20	21.5	21.5	21.0
		1717.5	20.67	20.64	20.15	21.5	21.5	21.0
	36RB_0	1747.5	20.75	20.68	20.21	21.5	21.5	21.0
		1732.5	20.76	20.66	20.21	21.5	21.5	21.0
		1717.5	20.62	20.61	20.12	21.5	21.5	21.0
	75RB_0	1747.5	20.74	20.71	20.16	21.5	21.5	21.0
		1732.5	20.76	20.73	20.21	21.5	21.5	21.0
		1717.5	20.60	20.66	20.09	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 4			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1745.0	20.30	20.59	20.52	21.5	21.5	21.5
		1732.5	20.33	20.63	20.55	21.5	21.5	21.5
		1720.0	20.36	20.74	20.56	21.5	21.5	21.5
	1RB_50	1745.0	20.75	21.06	20.98	21.5	21.5	21.5
		1732.5	20.73	21.05	20.97	21.5	21.5	21.5
		1720.0	20.71	21.09	20.89	21.5	21.5	21.5
	1RB_0	1745.0	20.43	20.79	20.70	21.5	21.5	21.5
		1732.5	20.39	20.70	20.63	21.5	21.5	21.5
		1720.0	20.33	20.68	20.54	21.5	21.5	21.5
	50RB_50	1745.0	20.73	20.71	20.20	21.5	21.5	21.0
		1732.5	20.74	20.72	20.22	21.5	21.5	21.0
		1720.0	20.66	20.65	20.18	21.5	21.5	21.0
	50RB_25	1745.0	20.76	20.71	20.16	21.5	21.5	21.0
		1732.5	20.73	20.69	20.21	21.5	21.5	21.0
		1720.0	20.67	20.66	20.16	21.5	21.5	21.0
	50RB_0	1745.0	20.69	20.74	20.18	21.5	21.5	21.0
		1732.5	20.68	20.66	20.19	21.5	21.5	21.0
		1720.0	20.61	20.59	20.09	21.5	21.5	21.0
	100RB_0	1745.0	20.68	20.67	20.14	21.5	21.5	21.0
		1732.5	20.70	20.74	20.23	21.5	21.5	21.0
		1720.0	20.66	20.66	20.13	21.5	21.5	21.0



Top Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	22.89	22.13	21.15	24.0	23.0	22.0
		2535.0	22.77	22.02	21.06	24.0	23.0	22.0
		2502.5	22.85	22.03	20.99	24.0	23.0	22.0
	1RB_12	2567.5	23.22	22.35	21.41	24.0	23.0	22.0
		2535.0	23.06	22.30	21.31	24.0	23.0	22.0
		2502.5	23.10	22.29	21.20	24.0	23.0	22.0
	1RB_0	2567.5	22.84	21.99	21.10	24.0	23.0	22.0
		2535.0	22.78	22.01	21.01	24.0	23.0	22.0
		2502.5	22.89	22.10	20.93	24.0	23.0	22.0
	12RB_13	2567.5	22.06	21.03	20.01	23.0	22.0	21.0
		2535.0	21.94	20.98	19.86	23.0	22.0	21.0
		2502.5	21.99	21.04	19.86	23.0	22.0	21.0
	12RB_6	2567.5	22.05	21.06	20.05	23.0	22.0	21.0
		2535.0	21.98	21.01	19.94	23.0	22.0	21.0
		2502.5	22.03	21.04	19.89	23.0	22.0	21.0
	12RB_0	2567.5	22.04	21.05	19.98	23.0	22.0	21.0
		2535.0	21.91	20.93	19.82	23.0	22.0	21.0
		2502.5	21.94	20.95	19.81	23.0	22.0	21.0
	25RB_0	2567.5	22.06	21.04	19.98	23.0	22.0	21.0
		2535.0	21.95	20.98	19.86	23.0	22.0	21.0
		2502.5	21.98	20.98	19.93	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	23.06	22.36	21.15	24.0	23.0	22.0
		2535.0	22.91	22.26	21.14	24.0	23.0	22.0
		2505.0	22.97	22.20	21.20	24.0	23.0	22.0
	1RB_24	2565.0	23.04	22.24	21.15	24.0	23.0	22.0
		2535.0	23.00	22.27	21.16	24.0	23.0	22.0
		2505.0	23.05	22.27	21.24	24.0	23.0	22.0
	1RB_0	2565.0	22.92	22.13	21.01	24.0	23.0	22.0
		2535.0	22.90	22.18	21.12	24.0	23.0	22.0
		2505.0	22.98	22.17	21.20	24.0	23.0	22.0
	25RB_25	2565.0	22.02	21.03	20.02	23.0	22.0	21.0
		2535.0	22.01	21.03	19.89	23.0	22.0	21.0
		2505.0	22.10	21.17	19.96	23.0	22.0	21.0
	25RB_12	2565.0	22.03	21.00	19.99	23.0	22.0	21.0
		2535.0	21.95	20.99	19.89	23.0	22.0	21.0
		2505.0	21.99	21.05	19.89	23.0	22.0	21.0
	25RB_0	2565.0	22.09	21.04	19.98	23.0	22.0	21.0
		2535.0	22.00	21.04	19.84	23.0	22.0	21.0
		2505.0	21.95	20.98	19.81	23.0	22.0	21.0
	50RB_0	2565.0	22.07	21.07	20.06	23.0	22.0	21.0
		2535.0	22.00	21.00	19.88	23.0	22.0	21.0
		2505.0	22.05	21.05	19.90	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	23.02	22.27	21.22	24.0	23.0	22.0
		2535.0	22.85	22.10	21.03	24.0	23.0	22.0
		2507.5	22.93	22.11	20.99	24.0	23.0	22.0
	1RB_37	2562.5	22.97	22.23	21.17	24.0	23.0	22.0
		2535.0	22.96	22.17	21.06	24.0	23.0	22.0
		2507.5	23.02	22.20	21.04	24.0	23.0	22.0
	1RB_0	2562.5	22.80	22.09	20.97	24.0	23.0	22.0
		2535.0	22.83	22.04	20.96	24.0	23.0	22.0
		2507.5	22.92	22.09	20.94	24.0	23.0	22.0
	36RB_38	2562.5	22.11	21.07	20.04	23.0	22.0	21.0
		2535.0	22.01	21.05	19.96	23.0	22.0	21.0
		2507.5	22.13	21.11	20.00	23.0	22.0	21.0
	36RB_19	2562.5	22.08	21.02	19.99	23.0	22.0	21.0
		2535.0	22.01	20.99	19.94	23.0	22.0	21.0
		2507.5	22.03	21.04	19.96	23.0	22.0	21.0
	36RB_0	2562.5	22.05	21.02	19.90	23.0	22.0	21.0
		2535.0	21.99	20.98	19.91	23.0	22.0	21.0
		2507.5	22.02	20.95	19.89	23.0	22.0	21.0
	75RB_0	2562.5	22.03	21.06	19.98	23.0	22.0	21.0
		2535.0	22.00	21.02	19.92	23.0	22.0	21.0
		2507.5	22.06	21.10	19.90	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	22.83	22.11	21.08	24.0	23.0	22.0
		2535.0	22.69	21.94	20.97	24.0	23.0	22.0
		2510.0	22.72	21.98	20.97	24.0	23.0	22.0
	1RB_50	2560.0	23.05	22.27	21.20	24.0	23.0	22.0
		2535.0	22.97	22.20	21.34	24.0	23.0	22.0
		2510.0	23.07	22.24	21.29	24.0	23.0	22.0
	1RB_0	2560.0	22.60	21.84	20.82	24.0	23.0	22.0
		2535.0	22.56	21.78	20.88	24.0	23.0	22.0
		2510.0	22.69	21.93	20.95	24.0	23.0	22.0
	50RB_50	2560.0	22.01	20.97	19.97	23.0	22.0	21.0
		2535.0	22.13	21.10	20.03	23.0	22.0	21.0
		2510.0	22.17	21.16	20.05	23.0	22.0	21.0
	50RB_25	2560.0	22.09	21.03	20.00	23.0	22.0	21.0
		2535.0	22.06	21.05	19.94	23.0	22.0	21.0
		2510.0	22.07	21.10	20.01	23.0	22.0	21.0
	50RB_0	2560.0	22.05	21.03	19.92	23.0	22.0	21.0
		2535.0	22.04	20.98	19.91	23.0	22.0	21.0
		2510.0	21.94	20.96	19.83	23.0	22.0	21.0
	100RB_0	2560.0	22.05	20.99	19.95	23.0	22.0	21.0
		2535.0	22.05	21.07	19.98	23.0	22.0	21.0
		2510.0	22.05	21.07	19.97	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	22.73	22.02	20.85	24.0	23.0	22.0
		2535.0	22.54	21.79	20.77	24.0	23.0	22.0
		2502.5	22.56	21.82	20.79	24.0	23.0	22.0
	1RB_12	2567.5	22.89	22.21	21.00	24.0	23.0	22.0
		2535.0	22.85	21.92	20.97	24.0	23.0	22.0
		2502.5	22.80	22.02	21.01	24.0	23.0	22.0
	1RB_0	2567.5	22.66	21.84	20.80	24.0	23.0	22.0
		2535.0	22.51	21.72	20.77	24.0	23.0	22.0
		2502.5	22.53	21.82	20.76	24.0	23.0	22.0
	12RB_13	2567.5	21.85	20.78	19.80	23.0	22.0	21.0
		2535.0	21.72	20.69	19.64	23.0	22.0	21.0
		2502.5	21.68	20.68	19.61	23.0	22.0	21.0
	12RB_6	2567.5	21.87	20.87	19.80	23.0	22.0	21.0
		2535.0	21.73	20.75	19.68	23.0	22.0	21.0
		2502.5	21.72	20.68	19.64	23.0	22.0	21.0
	12RB_0	2567.5	21.83	20.82	19.73	23.0	22.0	21.0
		2535.0	21.67	20.68	19.59	23.0	22.0	21.0
		2502.5	21.61	20.62	19.53	23.0	22.0	21.0
	25RB_0	2567.5	21.83	20.82	19.78	23.0	22.0	21.0
		2535.0	21.74	20.73	19.57	23.0	22.0	21.0
		2502.5	21.71	20.66	19.56	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	22.88	22.10	20.97	24.0	23.0	22.0
		2535.0	22.70	21.88	20.75	24.0	23.0	22.0
		2505.0	22.66	21.90	20.80	24.0	23.0	22.0
	1RB_24	2565.0	22.82	22.07	20.91	24.0	23.0	22.0
		2535.0	22.74	22.04	20.78	24.0	23.0	22.0
		2505.0	22.76	21.91	20.83	24.0	23.0	22.0
	1RB_0	2565.0	22.71	21.88	20.79	24.0	23.0	22.0
		2535.0	22.61	21.89	20.69	24.0	23.0	22.0
		2505.0	22.62	21.83	20.80	24.0	23.0	22.0
	25RB_25	2565.0	21.86	20.84	19.79	23.0	22.0	21.0
		2535.0	21.76	20.78	19.62	23.0	22.0	21.0
		2505.0	21.82	20.80	19.63	23.0	22.0	21.0
	25RB_12	2565.0	21.86	20.83	19.73	23.0	22.0	21.0
		2535.0	21.75	20.76	19.65	23.0	22.0	21.0
		2505.0	21.71	20.70	19.59	23.0	22.0	21.0
	25RB_0	2565.0	21.88	20.85	19.75	23.0	22.0	21.0
		2535.0	21.78	20.77	19.60	23.0	22.0	21.0
		2505.0	21.68	20.67	19.53	23.0	22.0	21.0
	50RB_0	2565.0	21.89	20.87	19.81	23.0	22.0	21.0
		2535.0	21.77	20.77	19.63	23.0	22.0	21.0
		2505.0	21.73	20.74	19.59	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	22.75	22.01	21.04	24.0	23.0	22.0
		2535.0	22.64	21.88	20.92	24.0	23.0	22.0
		2507.5	22.64	21.86	20.86	24.0	23.0	22.0
	1RB_37	2562.5	22.73	21.94	20.96	24.0	23.0	22.0
		2535.0	22.70	21.88	20.94	24.0	23.0	22.0
		2507.5	22.71	21.92	20.89	24.0	23.0	22.0
	1RB_0	2562.5	22.59	21.75	20.85	24.0	23.0	22.0
		2535.0	22.56	21.73	20.78	24.0	23.0	22.0
		2507.5	22.60	21.79	20.74	24.0	23.0	22.0
	36RB_38	2562.5	21.90	20.87	19.79	23.0	22.0	21.0
		2535.0	21.81	20.82	19.72	23.0	22.0	21.0
		2507.5	21.84	20.79	19.71	23.0	22.0	21.0
	36RB_19	2562.5	21.89	20.84	19.75	23.0	22.0	21.0
		2535.0	21.80	20.79	19.68	23.0	22.0	21.0
		2507.5	21.78	20.76	19.69	23.0	22.0	21.0
	36RB_0	2562.5	21.84	20.79	19.69	23.0	22.0	21.0
		2535.0	21.76	20.79	19.65	23.0	22.0	21.0
		2507.5	21.69	20.68	19.60	23.0	22.0	21.0
	75RB_0	2562.5	21.87	20.81	19.74	23.0	22.0	21.0
		2535.0	21.79	20.75	19.66	23.0	22.0	21.0
		2507.5	21.78	20.76	19.67	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	22.69	21.91	20.75	24.0	23.0	22.0
		2535.0	22.50	21.81	20.74	24.0	23.0	22.0
		2510.0	22.50	21.76	20.77	24.0	23.0	22.0
	1RB_50	2560.0	22.79	22.06	20.88	24.0	23.0	22.0
		2535.0	22.78	22.09	21.01	24.0	23.0	22.0
		2510.0	22.80	22.06	21.04	24.0	23.0	22.0
	1RB_0	2560.0	22.39	21.66	20.53	24.0	23.0	22.0
		2535.0	22.34	21.65	20.56	24.0	23.0	22.0
		2510.0	22.43	21.61	20.64	24.0	23.0	22.0
	50RB_50	2560.0	21.76	20.78	19.74	23.0	22.0	21.0
		2535.0	21.84	20.84	19.77	23.0	22.0	21.0
		2510.0	21.89	20.87	19.83	23.0	22.0	21.0
	50RB_25	2560.0	21.87	20.88	19.77	23.0	22.0	21.0
		2535.0	21.78	20.78	19.73	23.0	22.0	21.0
		2510.0	21.80	20.80	19.72	23.0	22.0	21.0
	50RB_0	2560.0	21.79	20.78	19.68	23.0	22.0	21.0
		2535.0	21.73	20.77	19.67	23.0	22.0	21.0
		2510.0	21.67	20.68	19.58	23.0	22.0	21.0
	100RB_0	2560.0	21.81	20.76	19.71	23.0	22.0	21.0
		2535.0	21.78	20.81	19.69	23.0	22.0	21.0
		2510.0	21.78	20.81	19.70	23.0	22.0	21.0



Top Antenna - Reduced power level 1								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	15.93	16.32	16.20	17.0	17.0	17.0
		2535.0	15.75	16.24	16.10	17.0	17.0	17.0
		2502.5	15.88	16.17	16.07	17.0	17.0	17.0
	1RB_12	2567.5	16.08	16.50	16.47	17.0	17.0	17.0
		2535.0	16.08	16.43	16.40	17.0	17.0	17.0
		2502.5	16.03	16.46	16.41	17.0	17.0	17.0
	1RB_0	2567.5	15.72	16.28	16.11	17.0	17.0	17.0
		2535.0	15.76	16.18	16.04	17.0	17.0	17.0
		2502.5	15.85	16.30	16.09	17.0	17.0	17.0
	12RB_13	2567.5	16.02	15.98	16.04	17.0	17.0	17.0
		2535.0	15.90	15.96	15.99	17.0	17.0	17.0
		2502.5	15.89	16.02	15.92	17.0	17.0	17.0
	12RB_6	2567.5	16.06	16.06	16.17	17.0	17.0	17.0
		2535.0	15.96	16.06	16.01	17.0	17.0	17.0
		2502.5	15.95	16.09	16.09	17.0	17.0	17.0
	12RB_0	2567.5	16.04	16.03	16.13	17.0	17.0	17.0
		2535.0	15.81	15.91	15.99	17.0	17.0	17.0
		2502.5	15.89	15.88	15.92	17.0	17.0	17.0
	25RB_0	2567.5	15.99	16.00	16.07	17.0	17.0	17.0
		2535.0	15.95	15.97	15.95	17.0	17.0	17.0
		2502.5	15.91	15.94	15.95	17.0	17.0	17.0



Top Antenna - Reduced power level 1								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	16.09	16.33	16.21	17.0	17.0	17.0
		2535.0	15.83	16.20	16.12	17.0	17.0	17.0
		2505.0	15.96	16.24	16.25	17.0	17.0	17.0
	1RB_24	2565.0	15.97	16.32	16.24	17.0	17.0	17.0
		2535.0	15.95	16.33	16.20	17.0	17.0	17.0
		2505.0	16.02	16.34	16.29	17.0	17.0	17.0
	1RB_0	2565.0	15.86	16.19	16.04	17.0	17.0	17.0
		2535.0	15.89	16.22	16.11	17.0	17.0	17.0
		2505.0	15.87	16.24	16.17	17.0	17.0	17.0
	25RB_25	2565.0	15.97	15.99	16.08	17.0	17.0	17.0
		2535.0	15.99	15.96	15.95	17.0	17.0	17.0
		2505.0	16.01	16.12	16.10	17.0	17.0	17.0
	25RB_12	2565.0	16.01	16.08	16.05	17.0	17.0	17.0
		2535.0	15.96	15.99	15.98	17.0	17.0	17.0
		2505.0	16.00	16.05	16.01	17.0	17.0	17.0
	25RB_0	2565.0	16.06	16.05	16.04	17.0	17.0	17.0
		2535.0	15.87	15.87	15.87	17.0	17.0	17.0
		2505.0	15.85	15.96	15.90	17.0	17.0	17.0
	50RB_0	2565.0	16.08	16.08	16.10	17.0	17.0	17.0
		2535.0	15.91	15.94	16.01	17.0	17.0	17.0
		2505.0	15.97	16.00	15.99	17.0	17.0	17.0



Top Antenna - Reduced power level 1								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	16.02	16.40	16.34	17.0	17.0	17.0
		2535.0	15.87	16.30	16.08	17.0	17.0	17.0
		2507.5	15.92	16.39	16.24	17.0	17.0	17.0
	1RB_37	2562.5	16.00	16.39	16.31	17.0	17.0	17.0
		2535.0	15.88	16.29	16.14	17.0	17.0	17.0
		2507.5	15.94	16.34	16.29	17.0	17.0	17.0
	1RB_0	2562.5	15.83	16.21	16.15	17.0	17.0	17.0
		2535.0	15.76	16.13	16.10	17.0	17.0	17.0
		2507.5	15.91	16.33	16.03	17.0	17.0	17.0
	36RB_38	2562.5	16.08	16.08	16.04	17.0	17.0	17.0
		2535.0	15.96	15.94	16.04	17.0	17.0	17.0
		2507.5	16.07	16.06	16.10	17.0	17.0	17.0
	36RB_19	2562.5	16.06	16.07	16.14	17.0	17.0	17.0
		2535.0	15.98	15.96	15.96	17.0	17.0	17.0
		2507.5	16.03	16.05	16.08	17.0	17.0	17.0
	36RB_0	2562.5	16.01	15.98	16.09	17.0	17.0	17.0
		2535.0	15.95	15.90	15.93	17.0	17.0	17.0
		2507.5	15.95	15.91	16.01	17.0	17.0	17.0
	75RB_0	2562.5	16.05	16.00	16.04	17.0	17.0	17.0
		2535.0	15.96	15.98	15.99	17.0	17.0	17.0
		2507.5	16.02	16.06	16.01	17.0	17.0	17.0



Top Antenna - Reduced power level 1								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	15.84	16.17	16.23	17.0	17.0	17.0
		2535.0	15.72	16.07	16.02	17.0	17.0	17.0
		2510.0	15.70	16.04	15.96	17.0	17.0	17.0
	1RB_50	2560.0	15.96	16.36	16.27	17.0	17.0	17.0
		2535.0	15.97	16.32	16.20	17.0	17.0	17.0
		2510.0	15.95	16.35	16.33	17.0	17.0	17.0
	1RB_0	2560.0	15.58	15.96	15.96	17.0	17.0	17.0
		2535.0	15.54	15.97	15.80	17.0	17.0	17.0
		2510.0	15.70	15.95	15.96	17.0	17.0	17.0
	50RB_50	2560.0	15.97	15.98	15.98	17.0	17.0	17.0
		2535.0	16.07	16.10	16.03	17.0	17.0	17.0
		2510.0	16.13	16.08	16.11	17.0	17.0	17.0
	50RB_25	2560.0	16.11	16.06	16.08	17.0	17.0	17.0
		2535.0	16.06	16.06	16.04	17.0	17.0	17.0
		2510.0	16.11	16.08	16.06	17.0	17.0	17.0
	50RB_0	2560.0	16.02	16.01	15.90	17.0	17.0	17.0
		2535.0	15.99	16.02	16.02	17.0	17.0	17.0
		2510.0	15.93	15.93	15.88	17.0	17.0	17.0
	100RB_0	2560.0	15.96	16.04	16.04	17.0	17.0	17.0
		2535.0	16.01	16.03	16.04	17.0	17.0	17.0
		2510.0	15.98	16.06	16.05	17.0	17.0	17.0



Top Antenna - Reduced power level 2								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	14.86	15.13	15.05	16.0	16.0	16.0
		2535.0	14.80	15.08	14.95	16.0	16.0	16.0
		2502.5	14.85	15.08	14.83	16.0	16.0	16.0
	1RB_12	2567.5	15.09	15.37	15.26	16.0	16.0	16.0
		2535.0	15.05	15.28	15.23	16.0	16.0	16.0
		2502.5	15.03	15.32	15.18	16.0	16.0	16.0
	1RB_0	2567.5	14.78	15.10	14.93	16.0	16.0	16.0
		2535.0	14.73	15.05	14.94	16.0	16.0	16.0
		2502.5	14.80	15.10	14.83	16.0	16.0	16.0
	12RB_13	2567.5	14.94	14.95	14.96	16.0	16.0	16.0
		2535.0	14.94	14.92	14.90	16.0	16.0	16.0
		2502.5	14.96	15.00	14.96	16.0	16.0	16.0
	12RB_6	2567.5	15.00	15.00	15.00	16.0	16.0	16.0
		2535.0	14.99	14.98	14.95	16.0	16.0	16.0
		2502.5	14.95	14.98	14.96	16.0	16.0	16.0
	12RB_0	2567.5	14.99	14.95	14.95	16.0	16.0	16.0
		2535.0	14.87	14.89	14.86	16.0	16.0	16.0
		2502.5	14.88	14.88	14.87	16.0	16.0	16.0
	25RB_0	2567.5	14.96	14.98	14.97	16.0	16.0	16.0
		2535.0	14.90	14.89	14.93	16.0	16.0	16.0
		2502.5	14.96	14.94	14.92	16.0	16.0	16.0



Top Antenna - Reduced power level 2								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	15.03	15.35	15.27	16.0	16.0	16.0
		2535.0	14.94	15.23	15.10	16.0	16.0	16.0
		2505.0	14.96	15.22	15.16	16.0	16.0	16.0
	1RB_24	2565.0	15.02	15.25	15.15	16.0	16.0	16.0
		2535.0	14.95	15.23	15.12	16.0	16.0	16.0
		2505.0	14.99	15.24	15.19	16.0	16.0	16.0
	1RB_0	2565.0	14.85	15.10	14.99	16.0	16.0	16.0
		2535.0	14.91	15.16	15.04	16.0	16.0	16.0
		2505.0	14.94	15.15	15.11	16.0	16.0	16.0
	25RB_25	2565.0	14.97	14.97	14.90	16.0	16.0	16.0
		2535.0	15.00	15.00	14.96	16.0	16.0	16.0
		2505.0	15.06	15.06	15.02	16.0	16.0	16.0
	25RB_12	2565.0	14.97	14.99	14.94	16.0	16.0	16.0
		2535.0	14.96	14.97	14.99	16.0	16.0	16.0
		2505.0	15.00	14.99	14.97	16.0	16.0	16.0
	25RB_0	2565.0	15.04	15.04	14.95	16.0	16.0	16.0
		2535.0	14.94	14.92	14.92	16.0	16.0	16.0
		2505.0	14.88	14.90	14.89	16.0	16.0	16.0
	50RB_0	2565.0	15.03	14.98	14.98	16.0	16.0	16.0
		2535.0	14.98	14.98	14.94	16.0	16.0	16.0
		2505.0	15.01	14.97	14.95	16.0	16.0	16.0



Top Antenna - Reduced power level 2								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	15.01	15.31	15.10	16.0	16.0	16.0
		2535.0	14.90	15.19	15.07	16.0	16.0	16.0
		2507.5	14.96	15.21	15.17	16.0	16.0	16.0
	1RB_37	2562.5	14.94	15.14	15.02	16.0	16.0	16.0
		2535.0	14.92	15.21	15.11	16.0	16.0	16.0
		2507.5	14.98	15.23	15.21	16.0	16.0	16.0
	1RB_0	2562.5	14.82	15.10	14.88	16.0	16.0	16.0
		2535.0	14.83	15.11	15.01	16.0	16.0	16.0
		2507.5	14.87	15.16	15.13	16.0	16.0	16.0
	36RB_38	2562.5	15.01	15.03	14.99	16.0	16.0	16.0
		2535.0	15.02	15.00	14.99	16.0	16.0	16.0
		2507.5	15.10	15.08	15.08	16.0	16.0	16.0
	36RB_19	2562.5	15.00	14.99	14.99	16.0	16.0	16.0
		2535.0	15.04	14.99	14.96	16.0	16.0	16.0
		2507.5	15.04	15.01	15.02	16.0	16.0	16.0
	36RB_0	2562.5	15.00	14.96	14.91	16.0	16.0	16.0
		2535.0	14.96	14.97	14.94	16.0	16.0	16.0
		2507.5	14.98	14.91	14.96	16.0	16.0	16.0
	75RB_0	2562.5	14.99	14.99	14.95	16.0	16.0	16.0
		2535.0	15.02	14.98	14.96	16.0	16.0	16.0
		2507.5	15.05	15.05	14.99	16.0	16.0	16.0



Top Antenna - Reduced power level 2								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	14.82	15.10	15.05	16.0	16.0	16.0
		2535.0	14.69	14.95	15.00	16.0	16.0	16.0
		2510.0	14.76	15.02	14.96	16.0	16.0	16.0
	1RB_50	2560.0	15.01	15.25	15.15	16.0	16.0	16.0
		2535.0	15.03	15.26	15.27	16.0	16.0	16.0
		2510.0	15.00	15.34	15.25	16.0	16.0	16.0
	1RB_0	2560.0	14.63	14.89	14.81	16.0	16.0	16.0
		2535.0	14.56	14.86	14.85	16.0	16.0	16.0
		2510.0	14.71	14.97	14.87	16.0	16.0	16.0
	50RB_50	2560.0	14.99	14.92	14.91	16.0	16.0	16.0
		2535.0	15.09	15.04	15.07	16.0	16.0	16.0
		2510.0	15.31	15.16	15.10	16.0	16.0	16.0
	50RB_25	2560.0	15.04	15.01	15.00	16.0	16.0	16.0
		2535.0	15.05	15.01	15.02	16.0	16.0	16.0
		2510.0	15.01	15.01	15.03	16.0	16.0	16.0
	50RB_0	2560.0	15.01	14.93	14.90	16.0	16.0	16.0
		2535.0	15.05	15.01	14.93	16.0	16.0	16.0
		2510.0	14.92	14.92	14.89	16.0	16.0	16.0
	100RB_0	2560.0	14.99	14.93	14.94	16.0	16.0	16.0
		2535.0	15.04	15.00	14.99	16.0	16.0	16.0
		2510.0	15.09	14.99	15.03	16.0	16.0	16.0



Top Antenna - Reduced power level 3								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	18.42	18.73	18.57	19.5	19.5	19.5
		2535.0	18.33	18.67	18.48	19.5	19.5	19.5
		2502.5	18.33	18.65	18.53	19.5	19.5	19.5
	1RB_12	2567.5	18.65	18.92	18.80	19.5	19.5	19.5
		2535.0	18.62	19.02	18.69	19.5	19.5	19.5
		2502.5	18.61	19.04	18.80	19.5	19.5	19.5
	1RB_0	2567.5	18.31	18.63	18.51	19.5	19.5	19.5
		2535.0	18.29	18.65	18.49	19.5	19.5	19.5
		2502.5	18.35	18.63	18.51	19.5	19.5	19.5
	12RB_13	2567.5	18.53	18.52	18.57	19.5	19.5	19.5
		2535.0	18.42	18.42	18.46	19.5	19.5	19.5
		2502.5	18.48	18.45	18.48	19.5	19.5	19.5
	12RB_6	2567.5	18.54	18.56	18.60	19.5	19.5	19.5
		2535.0	18.49	18.45	18.50	19.5	19.5	19.5
		2502.5	18.55	18.47	18.56	19.5	19.5	19.5
	12RB_0	2567.5	18.52	18.50	18.55	19.5	19.5	19.5
		2535.0	18.40	18.37	18.42	19.5	19.5	19.5
		2502.5	18.44	18.35	18.41	19.5	19.5	19.5
	25RB_0	2567.5	18.51	18.50	18.50	19.5	19.5	19.5
		2535.0	18.40	18.41	18.38	19.5	19.5	19.5
		2502.5	18.47	18.48	18.48	19.5	19.5	19.5



Top Antenna - Reduced power level 3								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	18.59	18.85	18.75	19.5	19.5	19.5
		2535.0	18.45	18.82	18.64	19.5	19.5	19.5
		2505.0	18.50	18.85	18.57	19.5	19.5	19.5
	1RB_24	2565.0	18.52	18.75	18.74	19.5	19.5	19.5
		2535.0	18.48	18.74	18.60	19.5	19.5	19.5
		2505.0	18.55	18.84	18.62	19.5	19.5	19.5
	1RB_0	2565.0	18.46	18.63	18.54	19.5	19.5	19.5
		2535.0	18.41	18.72	18.54	19.5	19.5	19.5
		2505.0	18.47	18.71	18.50	19.5	19.5	19.5
	25RB_25	2565.0	18.50	18.51	18.45	19.5	19.5	19.5
		2535.0	18.48	18.43	18.44	19.5	19.5	19.5
		2505.0	18.55	18.53	18.53	19.5	19.5	19.5
	25RB_12	2565.0	18.53	18.50	18.50	19.5	19.5	19.5
		2535.0	18.47	18.45	18.42	19.5	19.5	19.5
		2505.0	18.49	18.51	18.48	19.5	19.5	19.5
	25RB_0	2565.0	18.53	18.52	18.51	19.5	19.5	19.5
		2535.0	18.44	18.40	18.41	19.5	19.5	19.5
		2505.0	18.42	18.44	18.41	19.5	19.5	19.5
	50RB_0	2565.0	18.53	18.54	18.53	19.5	19.5	19.5
		2535.0	18.43	18.44	18.43	19.5	19.5	19.5
		2505.0	18.47	18.47	18.48	19.5	19.5	19.5



Top Antenna - Reduced power level 3								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	18.53	18.88	18.74	19.5	19.5	19.5
		2535.0	18.38	18.68	18.55	19.5	19.5	19.5
		2507.5	18.43	18.71	18.45	19.5	19.5	19.5
	1RB_37	2562.5	18.53	18.77	18.61	19.5	19.5	19.5
		2535.0	18.45	18.77	18.61	19.5	19.5	19.5
		2507.5	18.52	18.74	18.54	19.5	19.5	19.5
	1RB_0	2562.5	18.35	18.70	18.54	19.5	19.5	19.5
		2535.0	18.37	18.65	18.44	19.5	19.5	19.5
		2507.5	18.39	18.67	18.38	19.5	19.5	19.5
	36RB_38	2562.5	18.55	18.56	18.53	19.5	19.5	19.5
		2535.0	18.50	18.51	18.49	19.5	19.5	19.5
		2507.5	18.58	18.56	18.56	19.5	19.5	19.5
	36RB_19	2562.5	18.61	18.54	18.58	19.5	19.5	19.5
		2535.0	18.54	18.52	18.49	19.5	19.5	19.5
		2507.5	18.56	18.50	18.56	19.5	19.5	19.5
	36RB_0	2562.5	18.54	18.47	18.48	19.5	19.5	19.5
		2535.0	18.52	18.49	18.47	19.5	19.5	19.5
		2507.5	18.51	18.40	18.52	19.5	19.5	19.5
	75RB_0	2562.5	18.54	18.54	18.51	19.5	19.5	19.5
		2535.0	18.49	18.50	18.47	19.5	19.5	19.5
		2507.5	18.55	18.52	18.52	19.5	19.5	19.5



Top Antenna - Reduced power level 3								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	18.37	18.65	18.59	19.5	19.5	19.5
		2535.0	18.23	18.52	18.49	19.5	19.5	19.5
		2510.0	18.25	18.51	18.44	19.5	19.5	19.5
	1RB_50	2560.0	18.52	18.80	18.72	19.5	19.5	19.5
		2535.0	18.53	18.81	18.76	19.5	19.5	19.5
		2510.0	18.54	18.81	18.79	19.5	19.5	19.5
	1RB_0	2560.0	18.13	18.46	18.34	19.5	19.5	19.5
		2535.0	18.12	18.34	18.35	19.5	19.5	19.5
		2510.0	18.19	18.43	18.44	19.5	19.5	19.5
	50RB_50	2560.0	18.47	18.47	18.47	19.5	19.5	19.5
		2535.0	18.55	18.54	18.51	19.5	19.5	19.5
		2510.0	18.67	18.62	18.60	19.5	19.5	19.5
	50RB_25	2560.0	18.59	18.53	18.56	19.5	19.5	19.5
		2535.0	18.54	18.51	18.53	19.5	19.5	19.5
		2510.0	18.57	18.60	18.56	19.5	19.5	19.5
	50RB_0	2560.0	18.54	18.48	18.45	19.5	19.5	19.5
		2535.0	18.51	18.45	18.44	19.5	19.5	19.5
		2510.0	18.44	18.38	18.42	19.5	19.5	19.5
	100RB_0	2560.0	18.52	18.49	18.51	19.5	19.5	19.5
		2535.0	18.52	18.51	18.52	19.5	19.5	19.5
		2510.0	18.53	18.51	18.53	19.5	19.5	19.5



Top Antenna - Reduced power level 5								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	16.86	17.34	17.01	18.0	18.0	18.0
		2535.0	16.76	17.13	16.99	18.0	18.0	18.0
		2502.5	16.78	17.17	17.05	18.0	18.0	18.0
	1RB_12	2567.5	17.15	17.54	17.14	18.0	18.0	18.0
		2535.0	17.00	17.40	17.18	18.0	18.0	18.0
		2502.5	16.99	17.37	17.39	18.0	18.0	18.0
	1RB_0	2567.5	16.79	17.24	16.97	18.0	18.0	18.0
		2535.0	16.72	17.12	16.93	18.0	18.0	18.0
		2502.5	16.78	17.15	17.05	18.0	18.0	18.0
	12RB_13	2567.5	16.96	16.98	16.98	18.0	18.0	18.0
		2535.0	16.84	16.92	16.91	18.0	18.0	18.0
		2502.5	16.97	16.96	17.01	18.0	18.0	18.0
	12RB_6	2567.5	17.04	17.04	17.06	18.0	18.0	18.0
		2535.0	16.93	16.97	17.05	18.0	18.0	18.0
		2502.5	16.95	16.97	17.02	18.0	18.0	18.0
	12RB_0	2567.5	16.91	17.01	17.01	18.0	18.0	18.0
		2535.0	16.83	16.91	16.91	18.0	18.0	18.0
		2502.5	16.81	16.87	16.95	18.0	18.0	18.0
	25RB_0	2567.5	16.98	16.99	17.03	18.0	18.0	18.0
		2535.0	16.88	16.92	16.89	18.0	18.0	18.0
		2502.5	16.92	16.93	16.93	18.0	18.0	18.0



Top Antenna - Reduced power level 5								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	17.01	17.36	17.33	18.0	18.0	18.0
		2535.0	16.87	17.21	17.14	18.0	18.0	18.0
		2505.0	16.90	17.25	17.09	18.0	18.0	18.0
	1RB_24	2565.0	16.97	17.33	17.30	18.0	18.0	18.0
		2535.0	16.94	17.25	17.14	18.0	18.0	18.0
		2505.0	17.02	17.32	17.10	18.0	18.0	18.0
	1RB_0	2565.0	16.83	17.21	17.12	18.0	18.0	18.0
		2535.0	16.81	17.17	17.10	18.0	18.0	18.0
		2505.0	16.89	17.33	17.06	18.0	18.0	18.0
	25RB_25	2565.0	16.98	16.98	16.96	18.0	18.0	18.0
		2535.0	16.92	16.98	16.99	18.0	18.0	18.0
		2505.0	17.00	17.00	17.04	18.0	18.0	18.0
	25RB_12	2565.0	16.99	17.00	17.03	18.0	18.0	18.0
		2535.0	16.91	16.95	16.97	18.0	18.0	18.0
		2505.0	16.97	16.97	16.97	18.0	18.0	18.0
	25RB_0	2565.0	17.02	17.01	17.04	18.0	18.0	18.0
		2535.0	16.86	16.89	16.94	18.0	18.0	18.0
		2505.0	16.87	16.87	16.93	18.0	18.0	18.0
	50RB_0	2565.0	17.01	17.01	17.04	18.0	18.0	18.0
		2535.0	16.92	16.95	16.95	18.0	18.0	18.0
		2505.0	16.96	16.98	17.01	18.0	18.0	18.0



Top Antenna - Reduced power level 5								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	16.97	17.44	17.26	18.0	18.0	18.0
		2535.0	16.85	17.23	17.19	18.0	18.0	18.0
		2507.5	16.84	17.26	17.17	18.0	18.0	18.0
	1RB_37	2562.5	16.95	17.37	17.23	18.0	18.0	18.0
		2535.0	16.90	17.29	17.23	18.0	18.0	18.0
		2507.5	16.94	17.35	17.23	18.0	18.0	18.0
	1RB_0	2562.5	16.82	17.23	17.09	18.0	18.0	18.0
		2535.0	16.78	17.16	17.12	18.0	18.0	18.0
		2507.5	16.80	17.18	17.11	18.0	18.0	18.0
	36RB_38	2562.5	17.01	17.01	17.03	18.0	18.0	18.0
		2535.0	16.97	16.96	16.98	18.0	18.0	18.0
		2507.5	17.06	17.09	17.09	18.0	18.0	18.0
	36RB_19	2562.5	17.03	17.03	17.05	18.0	18.0	18.0
		2535.0	16.98	17.00	17.00	18.0	18.0	18.0
		2507.5	17.02	17.06	17.04	18.0	18.0	18.0
	36RB_0	2562.5	16.95	17.01	17.02	18.0	18.0	18.0
		2535.0	16.93	16.94	16.94	18.0	18.0	18.0
		2507.5	16.92	16.96	16.97	18.0	18.0	18.0
	75RB_0	2562.5	17.00	17.02	16.99	18.0	18.0	18.0
		2535.0	16.95	16.98	16.96	18.0	18.0	18.0
		2507.5	17.01	17.02	17.04	18.0	18.0	18.0



Top Antenna - Reduced power level 5								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	16.80	17.21	17.03	18.0	18.0	18.0
		2535.0	16.64	16.97	16.80	18.0	18.0	18.0
		2510.0	16.71	17.09	16.88	18.0	18.0	18.0
	1RB_50	2560.0	17.06	17.35	17.17	18.0	18.0	18.0
		2535.0	17.04	17.31	17.12	18.0	18.0	18.0
		2510.0	17.09	17.40	17.26	18.0	18.0	18.0
	1RB_0	2560.0	16.59	16.90	16.78	18.0	18.0	18.0
		2535.0	16.58	16.94	16.75	18.0	18.0	18.0
		2510.0	16.67	17.05	16.89	18.0	18.0	18.0
	50RB_50	2560.0	16.97	16.95	16.99	18.0	18.0	18.0
		2535.0	17.06	17.06	17.05	18.0	18.0	18.0
		2510.0	17.11	17.15	17.11	18.0	18.0	18.0
	50RB_25	2560.0	17.08	17.06	17.10	18.0	18.0	18.0
		2535.0	16.99	17.03	16.99	18.0	18.0	18.0
		2510.0	17.05	17.05	17.06	18.0	18.0	18.0
	50RB_0	2560.0	16.97	16.99	16.94	18.0	18.0	18.0
		2535.0	16.94	17.01	16.98	18.0	18.0	18.0
		2510.0	16.89	16.92	16.89	18.0	18.0	18.0
	100RB_0	2560.0	16.93	17.01	16.99	18.0	18.0	18.0
		2535.0	16.95	17.03	17.00	18.0	18.0	18.0
		2510.0	17.00	17.01	17.00	18.0	18.0	18.0



Bottom Antenna - Reduced power level 6								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2567.5	21.79	21.95	21.01	23.0	23.0	22.0
		2535.0	21.62	21.81	20.87	23.0	23.0	22.0
		2502.5	21.57	21.78	20.74	23.0	23.0	22.0
	1RB_12	2567.5	21.93	22.05	21.18	23.0	23.0	22.0
		2535.0	21.76	22.01	21.11	23.0	23.0	22.0
		2502.5	21.87	22.00	20.87	23.0	23.0	22.0
	1RB_0	2567.5	21.66	21.88	20.90	23.0	23.0	22.0
		2535.0	21.58	21.78	20.84	23.0	23.0	22.0
		2502.5	21.55	21.75	20.67	23.0	23.0	22.0
	12RB_13	2567.5	21.89	20.88	19.86	23.0	22.0	21.0
		2535.0	21.73	20.76	19.68	23.0	22.0	21.0
		2502.5	21.76	20.74	19.59	23.0	22.0	21.0
	12RB_6	2567.5	21.94	20.91	19.86	23.0	22.0	21.0
		2535.0	21.81	20.80	19.70	23.0	22.0	21.0
		2502.5	21.80	20.73	19.63	23.0	22.0	21.0
	12RB_0	2567.5	21.90	20.87	19.83	23.0	22.0	21.0
		2535.0	21.76	20.74	19.61	23.0	22.0	21.0
		2502.5	21.70	20.69	19.53	23.0	22.0	21.0
	25RB_0	2567.5	21.91	20.90	19.81	23.0	22.0	21.0
		2535.0	21.76	20.73	19.69	23.0	22.0	21.0
		2502.5	21.72	20.73	19.65	23.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2565.0	21.93	22.22	21.01	23.0	23.0	22.0
		2535.0	21.75	22.07	20.94	23.0	23.0	22.0
		2505.0	21.75	21.98	20.99	23.0	23.0	22.0
	1RB_24	2565.0	21.82	22.14	21.03	23.0	23.0	22.0
		2535.0	21.77	22.03	21.00	23.0	23.0	22.0
		2505.0	21.78	22.00	21.01	23.0	23.0	22.0
	1RB_0	2565.0	21.76	21.98	20.84	23.0	23.0	22.0
		2535.0	21.68	22.01	20.92	23.0	23.0	22.0
		2505.0	21.67	21.89	20.92	23.0	23.0	22.0
	25RB_25	2565.0	21.94	20.90	19.86	23.0	22.0	21.0
		2535.0	21.85	20.84	19.70	23.0	22.0	21.0
		2505.0	21.86	20.87	19.70	23.0	22.0	21.0
	25RB_12	2565.0	21.87	20.89	19.83	23.0	22.0	21.0
		2535.0	21.77	20.79	19.71	23.0	22.0	21.0
		2505.0	21.75	20.75	19.67	23.0	22.0	21.0
	25RB_0	2565.0	21.96	20.91	19.77	23.0	22.0	21.0
		2535.0	21.82	20.79	19.67	23.0	22.0	21.0
		2505.0	21.73	20.73	19.57	23.0	22.0	21.0
	50RB_0	2565.0	21.96	20.93	19.90	23.0	22.0	21.0
		2535.0	21.79	20.83	19.69	23.0	22.0	21.0
		2505.0	21.79	20.81	19.68	23.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2562.5	21.88	22.11	20.94	23.0	23.0	22.0
		2535.0	21.68	21.92	20.85	23.0	23.0	22.0
		2507.5	21.68	22.04	20.80	23.0	23.0	22.0
	1RB_37	2562.5	21.87	21.98	20.89	23.0	23.0	22.0
		2535.0	21.73	22.01	20.93	23.0	23.0	22.0
		2507.5	21.74	22.03	20.83	23.0	23.0	22.0
	1RB_0	2562.5	21.69	21.85	20.75	23.0	23.0	22.0
		2535.0	21.57	21.80	20.67	23.0	23.0	22.0
		2507.5	21.64	21.90	20.75	23.0	23.0	22.0
	36RB_38	2562.5	21.94	20.88	19.87	23.0	22.0	21.0
		2535.0	21.85	20.84	19.76	23.0	22.0	21.0
		2507.5	21.87	20.85	19.77	23.0	22.0	21.0
	36RB_19	2562.5	21.91	20.86	19.83	23.0	22.0	21.0
		2535.0	21.82	20.85	19.79	23.0	22.0	21.0
		2507.5	21.81	20.83	19.74	23.0	22.0	21.0
	36RB_0	2562.5	21.88	20.81	19.77	23.0	22.0	21.0
		2535.0	21.82	20.82	19.74	23.0	22.0	21.0
		2507.5	21.78	20.74	19.66	23.0	22.0	21.0
	75RB_0	2562.5	21.92	20.91	19.78	23.0	22.0	21.0
		2535.0	21.83	20.85	19.73	23.0	22.0	21.0
		2507.5	21.83	20.86	19.71	23.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 7			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2560.0	21.71	21.93	20.96	23.0	23.0	22.0
		2535.0	21.53	21.84	20.84	23.0	23.0	22.0
		2510.0	21.58	21.76	20.76	23.0	23.0	22.0
	1RB_50	2560.0	21.88	22.05	21.17	23.0	23.0	22.0
		2535.0	21.81	22.05	21.03	23.0	23.0	22.0
		2510.0	21.89	22.01	20.98	23.0	23.0	22.0
	1RB_0	2560.0	21.44	21.67	20.75	23.0	23.0	22.0
		2535.0	21.42	21.66	20.59	23.0	23.0	22.0
		2510.0	21.45	21.57	20.55	23.0	23.0	22.0
	50RB_50	2560.0	21.88	20.84	19.83	23.0	22.0	21.0
		2535.0	21.88	20.91	19.82	23.0	22.0	21.0
		2510.0	21.97	20.96	19.83	23.0	22.0	21.0
	50RB_25	2560.0	21.96	20.92	19.85	23.0	22.0	21.0
		2535.0	21.84	20.83	19.80	23.0	22.0	21.0
		2510.0	21.84	20.87	19.79	23.0	22.0	21.0
	50RB_0	2560.0	21.86	20.84	19.78	23.0	22.0	21.0
		2535.0	21.83	20.80	19.71	23.0	22.0	21.0
		2510.0	21.75	20.75	19.69	23.0	22.0	21.0
	100RB_0	2560.0	21.90	20.84	19.75	23.0	22.0	21.0
		2535.0	21.87	20.88	19.76	23.0	22.0	21.0
		2510.0	21.86	20.87	19.76	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	715.3	23.10	22.37	21.28	24.0	23.0	22.0
		707.5	23.09	22.37	21.31	24.0	23.0	22.0
		699.7	23.14	22.26	21.40	24.0	23.0	22.0
	1RB_3	715.3	23.23	22.47	21.46	24.0	23.0	22.0
		707.5	23.20	22.39	21.50	24.0	23.0	22.0
		699.7	23.23	22.41	21.52	24.0	23.0	22.0
	1RB_0	715.3	23.09	22.33	21.32	24.0	23.0	22.0
		707.5	23.10	22.35	21.36	24.0	23.0	22.0
		699.7	23.08	22.24	21.43	24.0	23.0	22.0
	3RB_3	715.3	23.22	22.18	21.37	24.0	23.0	22.0
		707.5	23.17	22.27	21.34	24.0	23.0	22.0
		699.7	23.19	22.20	21.36	24.0	23.0	22.0
	3RB_1	715.3	23.26	22.22	21.42	24.0	23.0	22.0
		707.5	23.30	22.27	21.34	24.0	23.0	22.0
		699.7	23.25	22.22	21.41	24.0	23.0	22.0
	3RB_0	715.3	23.22	22.19	21.37	24.0	23.0	22.0
		707.5	23.23	22.25	21.33	24.0	23.0	22.0
		699.7	23.17	22.17	21.28	24.0	23.0	22.0
	6RB_0	715.3	22.32	21.36	20.27	23.0	22.0	21.0
		707.5	22.29	21.34	20.27	23.0	22.0	21.0
		699.7	22.30	21.30	20.33	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	714.5	23.21	22.44	21.36	24.0	23.0	22.0
		707.5	23.17	22.48	21.42	24.0	23.0	22.0
		700.5	23.22	22.57	21.50	24.0	23.0	22.0
	1RB_7	714.5	23.26	22.64	21.59	24.0	23.0	22.0
		707.5	23.34	22.64	21.70	24.0	23.0	22.0
		700.5	23.34	22.52	21.62	24.0	23.0	22.0
	1RB_0	714.5	23.10	22.43	21.37	24.0	23.0	22.0
		707.5	23.16	22.51	21.45	24.0	23.0	22.0
		700.5	23.13	22.41	21.38	24.0	23.0	22.0
	8RB_7	714.5	22.24	21.27	20.32	23.0	22.0	21.0
		707.5	22.22	21.30	20.33	23.0	22.0	21.0
		700.5	22.26	21.30	20.28	23.0	22.0	21.0
	8RB_4	714.5	22.24	21.25	20.32	23.0	22.0	21.0
		707.5	22.29	21.32	20.34	23.0	22.0	21.0
		700.5	22.27	21.27	20.29	23.0	22.0	21.0
	8RB_0	714.5	22.25	21.24	20.29	23.0	22.0	21.0
		707.5	22.24	21.26	20.30	23.0	22.0	21.0
		700.5	22.25	21.26	20.27	23.0	22.0	21.0
	15RB_0	714.5	22.24	21.25	20.25	23.0	22.0	21.0
		707.5	22.25	21.25	20.29	23.0	22.0	21.0
		700.5	22.25	21.29	20.29	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	713.5	23.07	22.25	21.16	24.0	23.0	22.0
		707.5	23.03	22.30	21.24	24.0	23.0	22.0
		701.5	23.11	22.40	21.34	24.0	23.0	22.0
	1RB_12	713.5	23.28	22.42	21.37	24.0	23.0	22.0
		707.5	23.32	22.60	21.51	24.0	23.0	22.0
		701.5	23.34	22.53	21.59	24.0	23.0	22.0
	1RB_0	713.5	23.05	22.26	21.18	24.0	23.0	22.0
		707.5	23.03	22.39	21.33	24.0	23.0	22.0
		701.5	23.01	22.18	21.25	24.0	23.0	22.0
	12RB_13	713.5	22.23	21.16	20.27	23.0	22.0	21.0
		707.5	22.29	21.32	20.30	23.0	22.0	21.0
		701.5	22.22	21.25	20.28	23.0	22.0	21.0
	12RB_6	713.5	22.34	21.32	20.31	23.0	22.0	21.0
		707.5	22.30	21.31	20.36	23.0	22.0	21.0
		701.5	22.33	21.34	20.37	23.0	22.0	21.0
	12RB_0	713.5	22.28	21.31	20.28	23.0	22.0	21.0
		707.5	22.28	21.29	20.35	23.0	22.0	21.0
		701.5	22.22	21.21	20.28	23.0	22.0	21.0
	25RB_0	713.5	22.28	21.28	20.31	23.0	22.0	21.0
		707.5	22.29	21.29	20.33	23.0	22.0	21.0
		701.5	22.28	21.27	20.27	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	711.0	23.29	22.53	21.51	24.0	23.0	22.0
		707.5	23.24	22.51	21.52	24.0	23.0	22.0
		704.0	23.20	22.46	21.35	24.0	23.0	22.0
	1RB_24	711.0	23.29	22.58	21.57	24.0	23.0	22.0
		707.5	23.33	22.56	21.48	24.0	23.0	22.0
		704.0	23.30	22.57	21.49	24.0	23.0	22.0
	1RB_0	711.0	23.14	22.49	21.41	24.0	23.0	22.0
		707.5	23.13	22.44	21.40	24.0	23.0	22.0
		704.0	23.12	22.32	21.24	24.0	23.0	22.0
	25RB_25	711.0	22.30	21.31	20.30	23.0	22.0	21.0
		707.5	22.41	21.33	20.37	23.0	22.0	21.0
		704.0	22.38	21.34	20.39	23.0	22.0	21.0
	25RB_12	711.0	22.36	21.34	20.29	23.0	22.0	21.0
		707.5	22.36	21.33	20.36	23.0	22.0	21.0
		704.0	22.39	21.36	20.40	23.0	22.0	21.0
	25RB_0	711.0	22.31	21.26	20.28	23.0	22.0	21.0
		707.5	22.34	21.33	20.35	23.0	22.0	21.0
		704.0	22.38	21.35	20.40	23.0	22.0	21.0
	50RB_0	711.0	22.32	21.28	20.31	23.0	22.0	21.0
		707.5	22.38	21.36	20.34	23.0	22.0	21.0
		704.0	22.38	21.36	20.37	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	715.3	22.93	22.13	21.09	24.0	23.0	22.0
		707.5	22.90	22.18	21.20	24.0	23.0	22.0
		699.7	22.89	22.19	21.07	24.0	23.0	22.0
	1RB_3	715.3	23.01	22.28	21.20	24.0	23.0	22.0
		707.5	23.01	22.29	21.37	24.0	23.0	22.0
		699.7	23.02	22.23	21.20	24.0	23.0	22.0
	1RB_0	715.3	22.87	22.13	21.11	24.0	23.0	22.0
		707.5	22.94	22.19	21.18	24.0	23.0	22.0
		699.7	22.88	22.18	20.97	24.0	23.0	22.0
	3RB_3	715.3	23.02	22.01	21.13	24.0	23.0	22.0
		707.5	23.04	22.03	21.15	24.0	23.0	22.0
		699.7	23.00	21.99	21.11	24.0	23.0	22.0
	3RB_1	715.3	23.10	22.03	21.16	24.0	23.0	22.0
		707.5	23.07	22.06	21.22	24.0	23.0	22.0
		699.7	23.09	22.04	21.13	24.0	23.0	22.0
	3RB_0	715.3	23.04	22.05	21.10	24.0	23.0	22.0
		707.5	23.03	22.07	21.21	24.0	23.0	22.0
		699.7	23.04	21.99	21.19	24.0	23.0	22.0
	6RB_0	715.3	22.06	21.20	20.04	23.0	22.0	21.0
		707.5	22.11	21.11	20.07	23.0	22.0	21.0
		699.7	22.09	21.16	20.04	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	714.5	22.94	22.11	21.10	24.0	23.0	22.0
		707.5	22.96	22.14	21.19	24.0	23.0	22.0
		700.5	22.96	22.19	21.29	24.0	23.0	22.0
	1RB_7	714.5	23.00	22.18	21.20	24.0	23.0	22.0
		707.5	23.09	22.33	21.29	24.0	23.0	22.0
		700.5	22.98	22.26	21.34	24.0	23.0	22.0
	1RB_0	714.5	22.84	22.08	21.02	24.0	23.0	22.0
		707.5	22.93	22.21	21.12	24.0	23.0	22.0
		700.5	22.87	22.08	21.19	24.0	23.0	22.0
	8RB_7	714.5	22.04	21.06	20.14	23.0	22.0	21.0
		707.5	22.08	21.09	20.14	23.0	22.0	21.0
		700.5	22.03	21.05	20.13	23.0	22.0	21.0
	8RB_4	714.5	22.02	21.08	20.16	23.0	22.0	21.0
		707.5	22.11	21.12	20.15	23.0	22.0	21.0
		700.5	22.04	21.12	20.11	23.0	22.0	21.0
	8RB_0	714.5	22.05	21.12	20.14	23.0	22.0	21.0
		707.5	22.07	21.13	20.12	23.0	22.0	21.0
		700.5	22.03	21.05	20.07	23.0	22.0	21.0
	15RB_0	714.5	22.05	21.04	20.04	23.0	22.0	21.0
		707.5	22.07	21.09	20.09	23.0	22.0	21.0
		700.5	22.01	21.08	20.05	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	713.5	22.89	22.03	21.12	24.0	23.0	22.0
		707.5	22.87	22.16	21.09	24.0	23.0	22.0
		701.5	22.91	22.21	21.02	24.0	23.0	22.0
	1RB_12	713.5	23.16	22.33	21.37	24.0	23.0	22.0
		707.5	23.14	22.41	21.33	24.0	23.0	22.0
		701.5	23.09	22.36	21.32	24.0	23.0	22.0
	1RB_0	713.5	22.84	22.13	21.13	24.0	23.0	22.0
		707.5	22.87	22.17	21.12	24.0	23.0	22.0
		701.5	22.84	22.11	20.95	24.0	23.0	22.0
	12RB_13	713.5	22.00	20.98	20.03	23.0	22.0	21.0
		707.5	22.08	21.09	20.07	23.0	22.0	21.0
		701.5	22.03	21.02	20.08	23.0	22.0	21.0
	12RB_6	713.5	22.10	21.08	20.15	23.0	22.0	21.0
		707.5	22.13	21.11	20.14	23.0	22.0	21.0
		701.5	22.11	21.13	20.17	23.0	22.0	21.0
	12RB_0	713.5	22.09	21.08	20.13	23.0	22.0	21.0
		707.5	22.09	21.06	20.12	23.0	22.0	21.0
		701.5	22.06	21.03	20.02	23.0	22.0	21.0
	25RB_0	713.5	22.08	21.09	20.08	23.0	22.0	21.0
		707.5	22.11	21.07	20.10	23.0	22.0	21.0
		701.5	22.05	21.06	20.02	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 12			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	711.0	23.02	22.22	21.20	24.0	23.0	22.0
		707.5	22.99	22.27	21.27	24.0	23.0	22.0
		704.0	23.06	22.35	21.30	24.0	23.0	22.0
	1RB_24	711.0	23.08	22.34	21.39	24.0	23.0	22.0
		707.5	23.08	22.37	21.37	24.0	23.0	22.0
		704.0	23.13	22.38	21.45	24.0	23.0	22.0
	1RB_0	711.0	22.93	22.22	21.19	24.0	23.0	22.0
		707.5	22.92	22.26	21.23	24.0	23.0	22.0
		704.0	22.93	22.11	21.11	24.0	23.0	22.0
	25RB_25	711.0	22.14	21.09	20.12	23.0	22.0	21.0
		707.5	22.15	21.16	20.15	23.0	22.0	21.0
		704.0	22.21	21.19	20.16	23.0	22.0	21.0
	25RB_12	711.0	22.18	21.14	20.14	23.0	22.0	21.0
		707.5	22.15	21.13	20.20	23.0	22.0	21.0
		704.0	22.18	21.14	20.14	23.0	22.0	21.0
	25RB_0	711.0	22.09	21.08	20.09	23.0	22.0	21.0
		707.5	22.13	21.11	20.15	23.0	22.0	21.0
		704.0	22.14	21.17	20.18	23.0	22.0	21.0
	50RB_0	711.0	22.17	21.11	20.08	23.0	22.0	21.0
		707.5	22.17	21.14	20.15	23.0	22.0	21.0
		704.0	22.21	21.18	20.15	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	848.3	23.14	22.38	21.43	24.0	23.0	22.0
		831.5	23.06	22.40	21.37	24.0	23.0	22.0
		814.7	23.08	22.48	21.34	24.0	23.0	22.0
	1RB_3	848.3	23.24	22.56	21.47	24.0	23.0	22.0
		831.5	23.21	22.53	21.51	24.0	23.0	22.0
		814.7	23.25	22.59	21.47	24.0	23.0	22.0
	1RB_0	848.3	23.10	22.43	21.40	24.0	23.0	22.0
		831.5	23.09	22.45	21.35	24.0	23.0	22.0
		814.7	23.08	22.43	21.36	24.0	23.0	22.0
	3RB_3	848.3	23.21	22.22	21.45	24.0	23.0	22.0
		831.5	23.23	22.13	21.40	24.0	23.0	22.0
		814.7	23.29	22.18	21.34	24.0	23.0	22.0
	3RB_1	848.3	23.33	22.23	21.49	24.0	23.0	22.0
		831.5	23.25	22.22	21.41	24.0	23.0	22.0
		814.7	23.26	22.18	21.46	24.0	23.0	22.0
	3RB_0	848.3	23.20	22.22	21.39	24.0	23.0	22.0
		831.5	23.17	22.11	21.38	24.0	23.0	22.0
		814.7	23.23	22.15	21.41	24.0	23.0	22.0
	6RB_0	848.3	22.22	21.30	20.20	23.0	22.0	21.0
		831.5	22.14	21.29	20.20	23.0	22.0	21.0
		814.7	22.17	21.32	20.19	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	847.5	23.12	22.45	21.39	24.0	23.0	22.0
		831.5	23.12	22.46	21.42	24.0	23.0	22.0
		815.5	23.14	22.54	22.45	24.0	23.0	22.0
	1RB_7	847.5	23.24	22.64	21.40	24.0	23.0	22.0
		831.5	23.32	22.59	21.59	24.0	23.0	22.0
		815.5	23.18	22.53	22.48	24.0	23.0	22.0
	1RB_0	847.5	23.14	22.48	21.44	24.0	23.0	22.0
		831.5	23.09	22.49	21.35	24.0	23.0	22.0
		815.5	23.15	22.44	22.32	24.0	23.0	22.0
	8RB_7	847.5	22.11	21.35	20.21	23.0	22.0	21.0
		831.5	22.11	21.31	20.21	23.0	22.0	21.0
		815.5	22.17	21.30	21.29	23.0	22.0	21.0
	8RB_4	847.5	22.18	21.38	20.30	23.0	22.0	21.0
		831.5	22.12	21.33	20.26	23.0	22.0	21.0
		815.5	22.19	21.30	21.22	23.0	22.0	21.0
	8RB_0	847.5	22.19	21.36	20.26	23.0	22.0	21.0
		831.5	22.08	21.30	20.19	23.0	22.0	21.0
		815.5	22.16	21.32	21.25	23.0	22.0	21.0
	15RB_0	847.5	22.13	21.27	20.23	23.0	22.0	21.0
		831.5	22.14	21.24	20.24	23.0	22.0	21.0
		815.5	22.14	21.22	21.24	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	846.5	23.01	22.22	21.34	24.0	23.0	22.0
		831.5	23.03	22.19	21.19	24.0	23.0	22.0
		816.5	23.03	22.20	21.28	24.0	23.0	22.0
	1RB_12	846.5	23.26	22.47	21.57	24.0	23.0	22.0
		831.5	23.27	22.36	21.39	24.0	23.0	22.0
		816.5	23.27	22.53	21.57	24.0	23.0	22.0
	1RB_0	846.5	22.99	22.24	21.24	24.0	23.0	22.0
		831.5	22.96	22.19	21.15	24.0	23.0	22.0
		816.5	22.99	22.27	21.24	24.0	23.0	22.0
	12RB_13	846.5	22.13	21.18	20.17	23.0	22.0	21.0
		831.5	22.14	21.23	20.16	23.0	22.0	21.0
		816.5	22.12	21.22	20.19	23.0	22.0	21.0
	12RB_6	846.5	22.19	21.30	20.19	23.0	22.0	21.0
		831.5	22.16	21.24	20.17	23.0	22.0	21.0
		816.5	22.16	21.21	20.17	23.0	22.0	21.0
	12RB_0	846.5	22.18	21.27	20.20	23.0	22.0	21.0
		831.5	22.06	21.17	20.16	23.0	22.0	21.0
		816.5	22.07	21.10	20.12	23.0	22.0	21.0
	25RB_0	846.5	22.19	21.25	20.19	23.0	22.0	21.0
		831.5	22.10	21.22	20.15	23.0	22.0	21.0
		816.5	22.11	21.16	20.10	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	844.0	23.18	22.53	21.44	24.0	23.0	22.0
		831.5	23.15	22.44	21.41	24.0	23.0	22.0
		820.0	23.14	22.48	21.40	24.0	23.0	22.0
	1RB_24	844.0	23.26	22.51	21.53	24.0	23.0	22.0
		831.5	23.13	22.57	21.52	24.0	23.0	22.0
		820.0	23.19	22.49	21.45	24.0	23.0	22.0
	1RB_0	844.0	23.07	22.36	21.35	24.0	23.0	22.0
		831.5	23.10	22.34	21.35	24.0	23.0	22.0
		820.0	23.08	22.39	21.31	24.0	23.0	22.0
	25RB_25	844.0	22.13	21.19	20.16	23.0	22.0	21.0
		831.5	22.19	21.23	20.19	23.0	22.0	21.0
		820.0	22.16	21.23	20.20	23.0	22.0	21.0
	25RB_12	844.0	22.16	21.26	20.19	23.0	22.0	21.0
		831.5	22.14	21.21	20.20	23.0	22.0	21.0
		820.0	22.12	21.18	20.16	23.0	22.0	21.0
	25RB_0	844.0	22.17	21.25	20.25	23.0	22.0	21.0
		831.5	22.18	21.21	20.19	23.0	22.0	21.0
		820.0	22.11	21.14	20.11	23.0	22.0	21.0
	50RB_0	844.0	22.18	21.26	20.17	23.0	22.0	21.0
		831.5	22.14	21.24	20.19	23.0	22.0	21.0
		820.0	22.15	21.18	20.15	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	841.5	23.08	22.47	21.23	24.0	23.0	22.0
		831.5	23.01	22.39	21.25	24.0	23.0	22.0
		822.5	23.02	22.49	21.32	24.0	23.0	22.0
	1RB_37	841.5	23.10	22.46	21.27	24.0	23.0	22.0
		831.5	23.26	22.40	21.39	24.0	23.0	22.0
		822.5	23.11	22.48	21.34	24.0	23.0	22.0
	1RB_0	841.5	22.94	22.36	21.10	24.0	23.0	22.0
		831.5	22.98	22.43	21.22	24.0	23.0	22.0
		822.5	22.96	22.32	21.23	24.0	23.0	22.0
	36RB_38	841.5	22.16	21.19	20.19	23.0	22.0	21.0
		831.5	22.16	21.23	20.18	23.0	22.0	21.0
		822.5	22.21	21.25	20.24	23.0	22.0	21.0
	36RB_19	841.5	22.15	21.18	20.23	23.0	22.0	21.0
		831.5	22.16	21.23	20.17	23.0	22.0	21.0
		822.5	22.17	21.21	20.22	23.0	22.0	21.0
	36RB_0	841.5	22.09	21.14	20.15	23.0	22.0	21.0
		831.5	22.14	21.20	20.18	23.0	22.0	21.0
		822.5	22.11	21.15	20.12	23.0	22.0	21.0
	75RB_0	841.5	22.13	21.21	20.15	23.0	22.0	21.0
		831.5	22.17	21.22	20.12	23.0	22.0	21.0
		822.5	22.14	21.20	20.14	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	848.3	22.95	22.17	21.19	24.0	23.0	22.0
		831.5	22.88	22.11	21.19	24.0	23.0	22.0
		814.7	22.92	22.11	21.07	24.0	23.0	22.0
	1RB_3	848.3	23.10	22.31	21.26	24.0	23.0	22.0
		831.5	23.02	22.23	21.27	24.0	23.0	22.0
		814.7	23.04	22.27	21.32	24.0	23.0	22.0
	1RB_0	848.3	22.95	22.23	21.17	24.0	23.0	22.0
		831.5	22.92	22.09	21.22	24.0	23.0	22.0
		814.7	22.89	22.09	21.12	24.0	23.0	22.0
	3RB_3	848.3	23.01	22.00	21.21	24.0	23.0	22.0
		831.5	22.97	21.99	21.13	24.0	23.0	22.0
		814.7	23.02	22.02	21.09	24.0	23.0	22.0
	3RB_1	848.3	23.07	22.11	21.21	24.0	23.0	22.0
		831.5	23.05	22.05	21.20	24.0	23.0	22.0
		814.7	23.03	22.07	21.09	24.0	23.0	22.0
	3RB_0	848.3	23.04	22.02	21.17	24.0	23.0	22.0
		831.5	22.99	21.96	21.08	24.0	23.0	22.0
		814.7	22.98	21.98	21.05	24.0	23.0	22.0
	6RB_0	848.3	22.03	21.13	20.02	23.0	22.0	21.0
		831.5	22.00	21.11	20.05	23.0	22.0	21.0
		814.7	22.02	21.10	20.02	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	847.5	23.01	22.33	21.29	24.0	23.0	22.0
		831.5	22.98	22.32	21.32	24.0	23.0	22.0
		815.5	22.98	22.33	21.30	24.0	23.0	22.0
	1RB_7	847.5	23.17	22.59	21.42	24.0	23.0	22.0
		831.5	23.15	22.51	21.37	24.0	23.0	22.0
		815.5	23.15	22.37	21.45	24.0	23.0	22.0
	1RB_0	847.5	22.98	22.37	21.27	24.0	23.0	22.0
		831.5	22.99	22.26	21.28	24.0	23.0	22.0
		815.5	22.97	22.22	21.29	24.0	23.0	22.0
	8RB_7	847.5	22.01	21.10	20.08	23.0	22.0	21.0
		831.5	22.00	21.10	20.05	23.0	22.0	21.0
		815.5	21.97	21.07	20.06	23.0	22.0	21.0
	8RB_4	847.5	22.07	21.17	20.04	23.0	22.0	21.0
		831.5	22.05	21.13	20.07	23.0	22.0	21.0
		815.5	22.00	21.14	20.06	23.0	22.0	21.0
	8RB_0	847.5	22.06	21.15	20.06	23.0	22.0	21.0
		831.5	22.01	21.12	19.98	23.0	22.0	21.0
		815.5	21.97	21.10	20.03	23.0	22.0	21.0
	15RB_0	847.5	22.02	21.04	20.03	23.0	22.0	21.0
		831.5	21.96	21.07	20.02	23.0	22.0	21.0
		815.5	21.95	21.06	19.98	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	846.5	22.86	22.12	21.11	24.0	23.0	22.0
		831.5	22.83	22.10	20.96	24.0	23.0	22.0
		816.5	22.81	22.12	20.99	24.0	23.0	22.0
	1RB_12	846.5	23.15	22.45	21.36	24.0	23.0	22.0
		831.5	23.11	22.32	21.22	24.0	23.0	22.0
		816.5	23.00	22.35	21.29	24.0	23.0	22.0
	1RB_0	846.5	22.79	22.11	21.09	24.0	23.0	22.0
		831.5	22.76	22.08	20.90	24.0	23.0	22.0
		816.5	22.79	22.11	21.00	24.0	23.0	22.0
	12RB_13	846.5	21.95	20.97	19.96	23.0	22.0	21.0
		831.5	21.97	20.99	19.93	23.0	22.0	21.0
		816.5	21.96	21.03	19.95	23.0	22.0	21.0
	12RB_6	846.5	21.99	21.10	19.99	23.0	22.0	21.0
		831.5	21.97	21.04	20.01	23.0	22.0	21.0
		816.5	21.95	21.00	20.00	23.0	22.0	21.0
	12RB_0	846.5	21.98	21.07	19.98	23.0	22.0	21.0
		831.5	21.94	20.97	19.93	23.0	22.0	21.0
		816.5	21.86	20.95	19.94	23.0	22.0	21.0
	25RB_0	846.5	21.98	21.02	20.05	23.0	22.0	21.0
		831.5	21.95	20.97	19.92	23.0	22.0	21.0
		816.5	21.89	20.97	19.92	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	844.0	22.93	22.24	21.26	24.0	23.0	22.0
		831.5	22.92	22.16	21.26	24.0	23.0	22.0
		820.0	22.91	22.25	21.26	24.0	23.0	22.0
	1RB_24	844.0	23.01	22.28	21.33	24.0	23.0	22.0
		831.5	22.96	22.30	21.36	24.0	23.0	22.0
		820.0	22.95	22.24	21.26	24.0	23.0	22.0
	1RB_0	844.0	22.85	22.03	21.21	24.0	23.0	22.0
		831.5	22.82	22.12	21.20	24.0	23.0	22.0
		820.0	22.83	22.18	21.17	24.0	23.0	22.0
	25RB_25	844.0	21.91	20.99	19.94	23.0	22.0	21.0
		831.5	21.95	21.05	19.98	23.0	22.0	21.0
		820.0	21.99	21.04	20.01	23.0	22.0	21.0
	25RB_12	844.0	21.97	21.05	20.00	23.0	22.0	21.0
		831.5	21.95	21.06	20.02	23.0	22.0	21.0
		820.0	21.90	21.00	19.99	23.0	22.0	21.0
	25RB_0	844.0	22.03	21.06	20.02	23.0	22.0	21.0
		831.5	21.97	21.08	20.05	23.0	22.0	21.0
		820.0	21.87	20.91	19.93	23.0	22.0	21.0
	50RB_0	844.0	22.00	21.00	19.97	23.0	22.0	21.0
		831.5	21.97	21.05	20.00	23.0	22.0	21.0
		820.0	21.91	20.95	19.91	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 26			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	841.5	22.92	22.22	21.14	24.0	23.0	22.0
		831.5	22.86	22.00	21.02	24.0	23.0	22.0
		822.5	22.84	22.14	21.04	24.0	23.0	22.0
	1RB_37	841.5	22.93	22.14	21.15	24.0	23.0	22.0
		831.5	22.94	22.12	21.17	24.0	23.0	22.0
		822.5	22.90	22.20	21.09	24.0	23.0	22.0
	1RB_0	841.5	22.74	21.96	21.01	24.0	23.0	22.0
		831.5	22.77	21.97	21.00	24.0	23.0	22.0
		822.5	22.77	22.04	20.96	24.0	23.0	22.0
	36RB_38	841.5	21.92	20.97	19.93	23.0	22.0	21.0
		831.5	22.02	21.02	20.00	23.0	22.0	21.0
		822.5	21.98	21.02	20.04	23.0	22.0	21.0
	36RB_19	841.5	21.98	21.02	19.94	23.0	22.0	21.0
		831.5	21.97	21.01	20.01	23.0	22.0	21.0
		822.5	22.00	20.99	20.02	23.0	22.0	21.0
	36RB_0	841.5	21.94	20.94	19.92	23.0	22.0	21.0
		831.5	21.94	20.99	20.00	23.0	22.0	21.0
		822.5	21.88	20.90	19.91	23.0	22.0	21.0
	75RB_0	841.5	21.95	20.98	19.90	23.0	22.0	21.0
		831.5	21.97	21.02	20.00	23.0	22.0	21.0
		822.5	21.95	20.98	19.95	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2617.5	22.92	21.97	20.68	24.0	23.0	22.0
		2595.0	22.92	21.94	20.65	24.0	23.0	22.0
		2572.5	22.90	21.90	20.72	24.0	23.0	22.0
	1RB_12	2617.5	23.06	22.08	20.86	24.0	23.0	22.0
		2595.0	23.04	22.05	20.85	24.0	23.0	22.0
		2572.5	23.05	22.10	20.93	24.0	23.0	22.0
	1RB_0	2617.5	22.91	21.92	20.67	24.0	23.0	22.0
		2595.0	22.89	21.93	20.69	24.0	23.0	22.0
		2572.5	22.91	21.94	20.75	24.0	23.0	22.0
	12RB_13	2617.5	22.04	20.96	20.03	23.0	22.0	21.0
		2595.0	22.01	20.95	20.03	23.0	22.0	21.0
		2572.5	22.00	20.96	19.99	23.0	22.0	21.0
	12RB_6	2617.5	22.11	21.06	20.10	23.0	22.0	21.0
		2595.0	22.07	21.02	20.04	23.0	22.0	21.0
		2572.5	22.06	21.09	20.09	23.0	22.0	21.0
	12RB_0	2617.5	22.02	20.95	20.01	23.0	22.0	21.0
		2595.0	22.00	20.92	19.98	23.0	22.0	21.0
		2572.5	21.89	20.95	19.97	23.0	22.0	21.0
	25RB_0	2617.5	22.03	21.05	20.02	23.0	22.0	21.0
		2595.0	22.00	20.96	19.95	23.0	22.0	21.0
		2572.5	21.92	20.99	19.99	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2615.0	23.00	22.11	20.75	24.0	23.0	22.0
		2595.0	22.99	22.06	20.62	24.0	23.0	22.0
		2575.0	22.96	22.03	21.06	24.0	23.0	22.0
	1RB_24	2615.0	23.10	22.15	20.87	24.0	23.0	22.0
		2595.0	23.11	22.13	20.87	24.0	23.0	22.0
		2575.0	23.11	22.19	20.89	24.0	23.0	22.0
	1RB_0	2615.0	22.99	22.02	20.71	24.0	23.0	22.0
		2595.0	23.00	22.07	20.81	24.0	23.0	22.0
		2575.0	23.02	22.02	20.81	24.0	23.0	22.0
	25RB_25	2615.0	22.12	21.06	20.02	23.0	22.0	21.0
		2595.0	22.05	21.04	20.01	23.0	22.0	21.0
		2575.0	22.07	21.09	20.04	23.0	22.0	21.0
	25RB_12	2615.0	22.09	21.07	20.03	23.0	22.0	21.0
		2595.0	22.06	21.08	20.01	23.0	22.0	21.0
		2575.0	22.04	21.10	20.16	23.0	22.0	21.0
	25RB_0	2615.0	22.11	21.12	20.04	23.0	22.0	21.0
		2595.0	22.01	21.01	19.98	23.0	22.0	21.0
		2575.0	22.04	20.95	20.06	23.0	22.0	21.0
	50RB_0	2615.0	22.00	21.06	19.97	23.0	22.0	21.0
		2595.0	21.95	20.99	19.88	23.0	22.0	21.0
		2575.0	21.92	21.05	19.92	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2612.5	22.93	21.97	20.70	24.0	23.0	22.0
		2595.0	22.88	21.95	20.72	24.0	23.0	22.0
		2577.5	22.87	21.94	20.66	24.0	23.0	22.0
	1RB_37	2612.5	23.00	22.07	20.71	24.0	23.0	22.0
		2595.0	23.00	22.04	20.76	24.0	23.0	22.0
		2577.5	22.98	22.01	20.74	24.0	23.0	22.0
	1RB_0	2612.5	22.93	21.95	20.74	24.0	23.0	22.0
		2595.0	22.89	21.91	20.64	24.0	23.0	22.0
		2577.5	22.92	21.96	20.76	24.0	23.0	22.0
	36RB_38	2612.5	22.05	20.95	19.93	23.0	22.0	21.0
		2595.0	22.00	20.93	19.93	23.0	22.0	21.0
		2577.5	22.04	20.99	19.98	23.0	22.0	21.0
	36RB_19	2612.5	22.02	20.93	19.99	23.0	22.0	21.0
		2595.0	22.03	20.98	19.95	23.0	22.0	21.0
		2577.5	22.03	21.00	19.99	23.0	22.0	21.0
	36RB_0	2612.5	21.95	20.80	19.95	23.0	22.0	21.0
		2595.0	21.97	20.95	19.97	23.0	22.0	21.0
		2577.5	21.97	20.88	19.98	23.0	22.0	21.0
	75RB_0	2612.5	21.94	20.91	19.86	23.0	22.0	21.0
		2595.0	21.97	20.94	19.90	23.0	22.0	21.0
		2577.5	21.95	20.96	19.88	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2610.0	22.74	21.78	20.49	24.0	23.0	22.0
		2595.0	22.74	21.76	20.47	24.0	23.0	22.0
		2580.0	22.72	21.75	20.45	24.0	23.0	22.0
	1RB_50	2610.0	22.94	22.00	20.82	24.0	23.0	22.0
		2595.0	22.95	22.04	20.77	24.0	23.0	22.0
		2580.0	23.07	22.10	20.81	24.0	23.0	22.0
	1RB_0	2610.0	22.72	21.75	20.51	24.0	23.0	22.0
		2595.0	22.76	21.81	20.51	24.0	23.0	22.0
		2580.0	22.74	21.82	20.56	24.0	23.0	22.0
	50RB_50	2610.0	21.85	20.94	19.88	23.0	22.0	21.0
		2595.0	21.89	20.95	19.84	23.0	22.0	21.0
		2580.0	21.96	21.02	19.97	23.0	22.0	21.0
	50RB_25	2610.0	21.92	21.03	19.92	23.0	22.0	21.0
		2595.0	21.90	20.95	19.87	23.0	22.0	21.0
		2580.0	21.92	20.99	19.90	23.0	22.0	21.0
	50RB_0	2610.0	21.92	20.98	19.95	23.0	22.0	21.0
		2595.0	21.89	20.96	19.89	23.0	22.0	21.0
		2580.0	21.87	21.01	19.90	23.0	22.0	21.0
	100RB_0	2610.0	21.97	20.96	19.99	23.0	22.0	21.0
		2595.0	21.99	20.99	19.94	23.0	22.0	21.0
		2580.0	21.96	20.99	19.98	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2617.5	22.64	21.66	20.37	24.0	23.0	22.0
		2595.0	22.65	21.69	20.39	24.0	23.0	22.0
		2572.5	22.64	21.69	20.37	24.0	23.0	22.0
	1RB_12	2617.5	22.85	21.86	20.58	24.0	23.0	22.0
		2595.0	22.78	21.84	20.60	24.0	23.0	22.0
		2572.5	22.81	21.85	20.69	24.0	23.0	22.0
	1RB_0	2617.5	22.62	21.65	20.35	24.0	23.0	22.0
		2595.0	22.64	21.66	20.25	24.0	23.0	22.0
		2572.5	22.66	21.66	20.40	24.0	23.0	22.0
	12RB_13	2617.5	21.78	20.71	19.71	23.0	22.0	21.0
		2595.0	21.75	20.67	19.77	23.0	22.0	21.0
		2572.5	21.67	20.69	19.76	23.0	22.0	21.0
	12RB_6	2617.5	21.85	20.82	19.81	23.0	22.0	21.0
		2595.0	21.80	20.74	19.76	23.0	22.0	21.0
		2572.5	21.77	20.78	19.85	23.0	22.0	21.0
	12RB_0	2617.5	21.74	20.68	19.70	23.0	22.0	21.0
		2595.0	21.73	20.69	19.73	23.0	22.0	21.0
		2572.5	21.71	20.67	19.74	23.0	22.0	21.0
	25RB_0	2617.5	21.78	20.75	19.71	23.0	22.0	21.0
		2595.0	21.73	20.75	19.70	23.0	22.0	21.0
		2572.5	21.60	20.73	19.80	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2615.0	22.76	21.80	20.56	24.0	23.0	22.0
		2595.0	22.71	21.81	20.57	24.0	23.0	22.0
		2575.0	22.73	21.83	20.33	24.0	23.0	22.0
	1RB_24	2615.0	22.86	21.86	20.55	24.0	23.0	22.0
		2595.0	22.86	21.89	20.61	24.0	23.0	22.0
		2575.0	22.90	21.88	20.65	24.0	23.0	22.0
	1RB_0	2615.0	22.68	21.71	20.46	24.0	23.0	22.0
		2595.0	22.73	21.76	20.44	24.0	23.0	22.0
		2575.0	22.74	21.82	20.53	24.0	23.0	22.0
	25RB_25	2615.0	21.82	20.82	19.70	23.0	22.0	21.0
		2595.0	21.85	20.81	19.76	23.0	22.0	21.0
		2575.0	21.77	20.77	19.80	23.0	22.0	21.0
	25RB_12	2615.0	21.82	20.80	19.72	23.0	22.0	21.0
		2595.0	21.82	20.81	19.75	23.0	22.0	21.0
		2575.0	21.79	20.86	19.80	23.0	22.0	21.0
	25RB_0	2615.0	21.84	20.87	19.74	23.0	22.0	21.0
		2595.0	21.67	20.84	19.75	23.0	22.0	21.0
		2575.0	21.81	20.88	19.82	23.0	22.0	21.0
	50RB_0	2615.0	21.72	20.77	19.60	23.0	22.0	21.0
		2595.0	21.63	20.72	19.67	23.0	22.0	21.0
		2575.0	21.62	20.72	19.69	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2612.5	22.64	21.68	20.45	24.0	23.0	22.0
		2595.0	22.65	21.60	20.16	24.0	23.0	22.0
		2577.5	22.64	21.67	20.62	24.0	23.0	22.0
	1RB_37	2612.5	22.73	21.76	20.52	24.0	23.0	22.0
		2595.0	22.73	21.74	20.52	24.0	23.0	22.0
		2577.5	22.74	21.80	20.59	24.0	23.0	22.0
	1RB_0	2612.5	22.67	21.71	20.42	24.0	23.0	22.0
		2595.0	22.63	21.69	20.46	24.0	23.0	22.0
		2577.5	22.70	21.72	20.45	24.0	23.0	22.0
	36RB_38	2612.5	21.71	20.69	19.63	23.0	22.0	21.0
		2595.0	21.72	20.67	19.67	23.0	22.0	21.0
		2577.5	21.63	20.71	19.73	23.0	22.0	21.0
	36RB_19	2612.5	21.75	20.69	19.69	23.0	22.0	21.0
		2595.0	21.77	20.72	19.80	23.0	22.0	21.0
		2577.5	21.69	20.74	19.75	23.0	22.0	21.0
	36RB_0	2612.5	21.78	20.68	19.67	23.0	22.0	21.0
		2595.0	21.62	20.69	19.75	23.0	22.0	21.0
		2577.5	21.77	20.56	19.72	23.0	22.0	21.0
	75RB_0	2612.5	21.72	20.69	19.58	23.0	22.0	21.0
		2595.0	21.67	20.65	19.64	23.0	22.0	21.0
		2577.5	21.58	20.70	19.64	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2610.0	22.53	21.54	20.22	24.0	23.0	22.0
		2595.0	22.53	21.52	20.23	24.0	23.0	22.0
		2580.0	22.50	21.54	20.24	24.0	23.0	22.0
	1RB_50	2610.0	22.78	21.78	20.63	24.0	23.0	22.0
		2595.0	22.77	21.79	20.53	24.0	23.0	22.0
		2580.0	22.87	21.84	20.62	24.0	23.0	22.0
	1RB_0	2610.0	22.50	21.58	20.28	24.0	23.0	22.0
		2595.0	22.53	21.56	20.26	24.0	23.0	22.0
		2580.0	22.53	21.56	20.30	24.0	23.0	22.0
	50RB_50	2610.0	21.63	20.68	19.64	23.0	22.0	21.0
		2595.0	21.63	20.65	19.61	23.0	22.0	21.0
		2580.0	21.65	20.77	19.71	23.0	22.0	21.0
	50RB_25	2610.0	21.72	20.74	19.69	23.0	22.0	21.0
		2595.0	21.74	20.76	19.66	23.0	22.0	21.0
		2580.0	21.68	20.79	19.68	23.0	22.0	21.0
	50RB_0	2610.0	21.70	20.74	19.66	23.0	22.0	21.0
		2595.0	21.66	20.80	19.61	23.0	22.0	21.0
		2580.0	21.71	20.78	19.69	23.0	22.0	21.0
	100RB_0	2610.0	21.78	20.74	19.73	23.0	22.0	21.0
		2595.0	21.76	20.72	19.75	23.0	22.0	21.0
		2580.0	21.80	20.80	19.77	23.0	22.0	21.0



Top Antenna - Reduced power level 1								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2617.5	19.59	19.67	19.37	20.5	20.5	20.5
		2595.0	19.62	19.59	19.35	20.5	20.5	20.5
		2572.5	19.60	19.65	19.37	20.5	20.5	20.5
	1RB_12	2617.5	19.79	19.84	19.58	20.5	20.5	20.5
		2595.0	19.75	19.77	19.51	20.5	20.5	20.5
		2572.5	19.75	19.97	19.63	20.5	20.5	20.5
	1RB_0	2617.5	19.56	19.68	19.36	20.5	20.5	20.5
		2595.0	19.60	19.58	19.29	20.5	20.5	20.5
		2572.5	19.61	19.65	19.39	20.5	20.5	20.5
	12RB_13	2617.5	19.72	19.67	19.68	20.5	20.5	20.5
		2595.0	19.74	19.70	19.68	20.5	20.5	20.5
		2572.5	19.65	19.67	19.64	20.5	20.5	20.5
	12RB_6	2617.5	19.82	19.75	19.80	20.5	20.5	20.5
		2595.0	19.80	19.71	19.71	20.5	20.5	20.5
		2572.5	19.74	19.68	19.73	20.5	20.5	20.5
	12RB_0	2617.5	19.72	19.66	19.70	20.5	20.5	20.5
		2595.0	19.71	19.64	19.63	20.5	20.5	20.5
		2572.5	19.67	19.65	19.66	20.5	20.5	20.5
	25RB_0	2617.5	19.76	19.71	19.71	20.5	20.5	20.5
		2595.0	19.75	19.73	19.74	20.5	20.5	20.5
		2572.5	19.64	19.64	19.72	20.5	20.5	20.5



Top Antenna - Reduced power level 1								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2615.0	19.77	19.77	19.45	20.5	20.5	20.5
		2595.0	19.76	19.70	19.48	20.5	20.5	20.5
		2575.0	19.72	19.74	19.45	20.5	20.5	20.5
	1RB_24	2615.0	19.80	19.85	19.54	20.5	20.5	20.5
		2595.0	19.81	19.82	19.52	20.5	20.5	20.5
		2575.0	19.80	19.77	19.46	20.5	20.5	20.5
	1RB_0	2615.0	19.70	19.74	19.42	20.5	20.5	20.5
		2595.0	19.72	19.77	19.43	20.5	20.5	20.5
		2575.0	19.74	19.82	19.50	20.5	20.5	20.5
	25RB_25	2615.0	19.67	19.72	19.71	20.5	20.5	20.5
		2595.0	19.72	19.70	19.69	20.5	20.5	20.5
		2575.0	19.70	19.75	19.73	20.5	20.5	20.5
	25RB_12	2615.0	19.75	19.70	19.76	20.5	20.5	20.5
		2595.0	19.70	19.78	19.75	20.5	20.5	20.5
		2575.0	19.75	19.75	19.78	20.5	20.5	20.5
	25RB_0	2615.0	19.73	19.75	19.78	20.5	20.5	20.5
		2595.0	19.67	19.70	19.65	20.5	20.5	20.5
		2575.0	19.73	19.69	19.76	20.5	20.5	20.5
	50RB_0	2615.0	19.68	19.70	19.69	20.5	20.5	20.5
		2595.0	19.68	19.67	19.66	20.5	20.5	20.5
		2575.0	19.70	19.74	19.64	20.5	20.5	20.5



Top Antenna - Reduced power level 1								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2612.5	19.61	19.69	19.43	20.5	20.5	20.5
		2595.0	19.61	19.66	19.32	20.5	20.5	20.5
		2577.5	19.63	19.60	19.35	20.5	20.5	20.5
	1RB_37	2612.5	19.69	19.78	19.47	20.5	20.5	20.5
		2595.0	19.66	19.73	19.45	20.5	20.5	20.5
		2577.5	19.74	19.74	19.42	20.5	20.5	20.5
	1RB_0	2612.5	19.64	19.67	19.40	20.5	20.5	20.5
		2595.0	19.63	19.67	19.36	20.5	20.5	20.5
		2577.5	19.65	19.73	19.44	20.5	20.5	20.5
	36RB_38	2612.5	19.68	19.63	19.64	20.5	20.5	20.5
		2595.0	19.76	19.71	19.64	20.5	20.5	20.5
		2577.5	19.74	19.62	19.67	20.5	20.5	20.5
	36RB_19	2612.5	19.76	19.65	19.70	20.5	20.5	20.5
		2595.0	19.74	19.70	19.70	20.5	20.5	20.5
		2577.5	19.76	19.64	19.68	20.5	20.5	20.5
	36RB_0	2612.5	19.75	19.67	19.67	20.5	20.5	20.5
		2595.0	19.67	19.61	19.65	20.5	20.5	20.5
		2577.5	19.63	19.64	19.68	20.5	20.5	20.5
	75RB_0	2612.5	19.62	19.61	19.59	20.5	20.5	20.5
		2595.0	19.65	19.60	19.56	20.5	20.5	20.5
		2577.5	19.67	19.60	19.65	20.5	20.5	20.5



Top Antenna - Reduced power level 1								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2610.0	19.44	19.54	19.21	20.5	20.5	20.5
		2595.0	19.44	19.48	19.20	20.5	20.5	20.5
		2580.0	19.45	19.51	19.15	20.5	20.5	20.5
	1RB_50	2610.0	19.65	19.77	19.44	20.5	20.5	20.5
		2595.0	19.72	19.77	19.48	20.5	20.5	20.5
		2580.0	19.76	19.88	19.58	20.5	20.5	20.5
	1RB_0	2610.0	19.46	19.49	19.21	20.5	20.5	20.5
		2595.0	19.45	19.51	19.24	20.5	20.5	20.5
		2580.0	19.44	19.53	19.23	20.5	20.5	20.5
	50RB_50	2610.0	19.64	19.63	19.55	20.5	20.5	20.5
		2595.0	19.62	19.58	19.57	20.5	20.5	20.5
		2580.0	19.63	19.70	19.65	20.5	20.5	20.5
	50RB_25	2610.0	19.63	19.64	19.60	20.5	20.5	20.5
		2595.0	19.68	19.64	19.61	20.5	20.5	20.5
		2580.0	19.65	19.72	19.62	20.5	20.5	20.5
	50RB_0	2610.0	19.67	19.66	19.67	20.5	20.5	20.5
		2595.0	19.60	19.57	19.55	20.5	20.5	20.5
		2580.0	19.60	19.61	19.57	20.5	20.5	20.5
	100RB_0	2610.0	19.71	19.70	19.71	20.5	20.5	20.5
		2595.0	19.72	19.68	19.63	20.5	20.5	20.5
		2580.0	19.76	19.72	19.73	20.5	20.5	20.5



Top Antenna - Reduced power level 2								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2617.5	18.11	18.17	17.90	19.0	19.0	19.0
		2595.0	18.05	18.15	17.85	19.0	19.0	19.0
		2572.5	18.10	18.19	17.89	19.0	19.0	19.0
	1RB_12	2617.5	18.24	18.34	18.09	19.0	19.0	19.0
		2595.0	18.47	18.37	18.10	19.0	19.0	19.0
		2572.5	18.30	18.40	18.10	19.0	19.0	19.0
	1RB_0	2617.5	18.10	18.16	17.88	19.0	19.0	19.0
		2595.0	18.07	18.21	17.87	19.0	19.0	19.0
		2572.5	18.12	18.17	17.93	19.0	19.0	19.0
	12RB_13	2617.5	18.17	18.11	18.17	19.0	19.0	19.0
		2595.0	18.21	18.17	18.18	19.0	19.0	19.0
		2572.5	18.22	18.21	18.18	19.0	19.0	19.0
	12RB_6	2617.5	18.24	18.24	18.26	19.0	19.0	19.0
		2595.0	18.25	18.19	18.25	19.0	19.0	19.0
		2572.5	18.29	18.27	18.31	19.0	19.0	19.0
	12RB_0	2617.5	18.16	18.12	18.19	19.0	19.0	19.0
		2595.0	18.20	18.15	18.12	19.0	19.0	19.0
		2572.5	18.19	18.19	18.19	19.0	19.0	19.0
	25RB_0	2617.5	18.20	18.21	18.25	19.0	19.0	19.0
		2595.0	18.19	18.18	18.16	19.0	19.0	19.0
		2572.5	18.14	18.24	18.23	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2615.0	18.15	18.30	18.00	19.0	19.0	19.0
		2595.0	18.16	18.30	17.95	19.0	19.0	19.0
		2575.0	18.22	18.27	18.00	19.0	19.0	19.0
	1RB_24	2615.0	18.28	18.37	18.06	19.0	19.0	19.0
		2595.0	18.25	18.40	18.11	19.0	19.0	19.0
		2575.0	18.33	18.44	18.14	19.0	19.0	19.0
	1RB_0	2615.0	18.14	18.25	17.97	19.0	19.0	19.0
		2595.0	18.19	18.31	18.02	19.0	19.0	19.0
		2575.0	18.26	18.28	18.01	19.0	19.0	19.0
	25RB_25	2615.0	18.19	18.23	18.25	19.0	19.0	19.0
		2595.0	18.19	18.22	18.27	19.0	19.0	19.0
		2575.0	18.30	18.29	18.31	19.0	19.0	19.0
	25RB_12	2615.0	18.19	18.24	18.25	19.0	19.0	19.0
		2595.0	18.28	18.25	18.29	19.0	19.0	19.0
		2575.0	18.27	18.34	18.28	19.0	19.0	19.0
	25RB_0	2615.0	18.21	18.25	18.22	19.0	19.0	19.0
		2595.0	18.20	18.29	18.25	19.0	19.0	19.0
		2575.0	18.22	18.24	18.24	19.0	19.0	19.0
	50RB_0	2615.0	18.20	18.23	18.20	19.0	19.0	19.0
		2595.0	18.22	18.21	18.18	19.0	19.0	19.0
		2575.0	18.26	18.28	18.29	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2612.5	18.04	18.18	17.90	19.0	19.0	19.0
		2595.0	18.09	18.15	17.90	19.0	19.0	19.0
		2577.5	18.10	18.22	17.96	19.0	19.0	19.0
	1RB_37	2612.5	18.14	18.23	17.99	19.0	19.0	19.0
		2595.0	18.19	18.26	17.96	19.0	19.0	19.0
		2577.5	18.19	18.31	18.02	19.0	19.0	19.0
	1RB_0	2612.5	18.10	18.18	17.89	19.0	19.0	19.0
		2595.0	18.12	18.21	17.89	19.0	19.0	19.0
		2577.5	18.16	18.22	17.98	19.0	19.0	19.0
	36RB_38	2612.5	18.15	18.14	18.14	19.0	19.0	19.0
		2595.0	18.22	18.11	18.16	19.0	19.0	19.0
		2577.5	18.25	18.25	18.25	19.0	19.0	19.0
	36RB_19	2612.5	18.24	18.16	18.21	19.0	19.0	19.0
		2595.0	18.17	18.23	18.26	19.0	19.0	19.0
		2577.5	18.27	18.22	18.30	19.0	19.0	19.0
	36RB_0	2612.5	18.21	18.18	18.20	19.0	19.0	19.0
		2595.0	18.21	18.19	18.22	19.0	19.0	19.0
		2577.5	18.24	18.18	18.19	19.0	19.0	19.0
	75RB_0	2612.5	18.18	18.18	18.18	19.0	19.0	19.0
		2595.0	18.14	18.21	18.15	19.0	19.0	19.0
		2577.5	18.22	18.29	18.22	19.0	19.0	19.0



Top Antenna - Reduced power level 2								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2610.0	17.94	18.00	17.72	19.0	19.0	19.0
		2595.0	17.90	17.98	17.71	19.0	19.0	19.0
		2580.0	17.94	17.98	17.75	19.0	19.0	19.0
	1RB_50	2610.0	18.20	18.33	18.00	19.0	19.0	19.0
		2595.0	18.29	18.35	18.05	19.0	19.0	19.0
		2580.0	18.31	18.36	18.05	19.0	19.0	19.0
	1RB_0	2610.0	17.92	18.02	17.75	19.0	19.0	19.0
		2595.0	17.92	18.06	17.75	19.0	19.0	19.0
		2580.0	17.98	18.08	17.80	19.0	19.0	19.0
	50RB_50	2610.0	18.15	18.17	18.13	19.0	19.0	19.0
		2595.0	18.11	18.16	18.11	19.0	19.0	19.0
		2580.0	18.23	18.30	18.29	19.0	19.0	19.0
	50RB_25	2610.0	18.13	18.19	18.21	19.0	19.0	19.0
		2595.0	18.27	18.15	18.14	19.0	19.0	19.0
		2580.0	18.26	18.25	18.24	19.0	19.0	19.0
	50RB_0	2610.0	18.16	18.24	18.18	19.0	19.0	19.0
		2595.0	18.20	18.23	18.18	19.0	19.0	19.0
		2580.0	18.18	18.23	18.20	19.0	19.0	19.0
	100RB_0	2610.0	18.14	18.17	18.18	19.0	19.0	19.0
		2595.0	18.14	18.18	18.17	19.0	19.0	19.0
		2580.0	18.21	18.19	18.22	19.0	19.0	19.0



Top Antenna - Reduced power level 3								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2617.5	22.44	22.02	20.72	23.5	23.0	22.0
		2595.0	22.25	21.97	20.70	23.5	23.0	22.0
		2572.5	22.41	21.95	20.69	23.5	23.0	22.0
	1RB_12	2617.5	22.63	22.13	20.89	23.5	23.0	22.0
		2595.0	22.66	22.12	20.89	23.5	23.0	22.0
		2572.5	22.60	22.11	20.95	23.5	23.0	22.0
	1RB_0	2617.5	22.39	21.98	20.69	23.5	23.0	22.0
		2595.0	22.36	21.92	20.70	23.5	23.0	22.0
		2572.5	22.42	21.94	20.72	23.5	23.0	22.0
	12RB_13	2617.5	22.09	21.02	20.08	23.0	22.0	21.0
		2595.0	22.03	20.96	20.03	23.0	22.0	21.0
		2572.5	22.07	21.01	20.01	23.0	22.0	21.0
	12RB_6	2617.5	22.15	21.12	20.13	23.0	22.0	21.0
		2595.0	22.10	21.03	20.06	23.0	22.0	21.0
		2572.5	22.09	21.11	20.05	23.0	22.0	21.0
	12RB_0	2617.5	22.10	20.97	20.00	23.0	22.0	21.0
		2595.0	22.04	20.98	19.98	23.0	22.0	21.0
		2572.5	21.92	20.92	19.99	23.0	22.0	21.0
	25RB_0	2617.5	22.05	21.02	20.07	23.0	22.0	21.0
		2595.0	22.03	20.98	19.99	23.0	22.0	21.0
		2572.5	21.98	21.06	20.04	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2615.0	22.55	22.09	20.87	23.5	23.0	22.0
		2595.0	22.57	22.10	20.79	23.5	23.0	22.0
		2575.0	22.45	22.06	20.88	23.5	23.0	22.0
	1RB_24	2615.0	22.63	22.15	20.86	23.5	23.0	22.0
		2595.0	22.64	22.17	20.89	23.5	23.0	22.0
		2575.0	22.67	22.24	20.92	23.5	23.0	22.0
	1RB_0	2615.0	22.49	22.06	20.77	23.5	23.0	22.0
		2595.0	22.53	22.03	20.97	23.5	23.0	22.0
		2575.0	22.53	22.11	20.81	23.5	23.0	22.0
	25RB_25	2615.0	22.11	21.08	20.07	23.0	22.0	21.0
		2595.0	22.09	21.06	20.05	23.0	22.0	21.0
		2575.0	22.10	21.10	20.10	23.0	22.0	21.0
	25RB_12	2615.0	22.11	21.12	20.08	23.0	22.0	21.0
		2595.0	22.09	21.08	20.04	23.0	22.0	21.0
		2575.0	22.06	21.13	20.17	23.0	22.0	21.0
	25RB_0	2615.0	22.13	21.15	20.05	23.0	22.0	21.0
		2595.0	22.03	21.08	19.99	23.0	22.0	21.0
		2575.0	22.12	20.99	20.05	23.0	22.0	21.0
	50RB_0	2615.0	22.04	21.10	20.01	23.0	22.0	21.0
		2595.0	21.99	21.02	19.89	23.0	22.0	21.0
		2575.0	21.98	21.05	20.02	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2612.5	22.51	22.00	20.71	23.5	23.0	22.0
		2595.0	22.52	21.95	20.74	23.5	23.0	22.0
		2577.5	22.50	21.95	20.72	23.5	23.0	22.0
	1RB_37	2612.5	22.57	22.11	20.74	23.5	23.0	22.0
		2595.0	22.53	22.06	20.77	23.5	23.0	22.0
		2577.5	22.52	22.07	20.80	23.5	23.0	22.0
	1RB_0	2612.5	22.46	22.02	20.46	23.5	23.0	22.0
		2595.0	22.46	21.94	20.88	23.5	23.0	22.0
		2577.5	22.45	21.98	20.72	23.5	23.0	22.0
	36RB_38	2612.5	22.09	21.01	19.98	23.0	22.0	21.0
		2595.0	22.06	20.97	19.96	23.0	22.0	21.0
		2577.5	22.07	21.04	20.02	23.0	22.0	21.0
	36RB_19	2612.5	22.00	20.89	20.03	23.0	22.0	21.0
		2595.0	22.06	20.99	19.98	23.0	22.0	21.0
		2577.5	22.05	21.02	20.04	23.0	22.0	21.0
	36RB_0	2612.5	22.00	20.91	20.00	23.0	22.0	21.0
		2595.0	22.00	20.97	19.97	23.0	22.0	21.0
		2577.5	22.05	20.95	20.05	23.0	22.0	21.0
	75RB_0	2612.5	22.02	20.93	19.92	23.0	22.0	21.0
		2595.0	22.01	20.97	19.93	23.0	22.0	21.0
		2577.5	21.97	21.02	19.93	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2610.0	22.32	21.82	20.53	23.5	23.0	22.0
		2595.0	22.29	21.81	20.50	23.5	23.0	22.0
		2580.0	22.20	21.83	20.62	23.5	23.0	22.0
	1RB_50	2610.0	22.58	22.13	20.92	23.5	23.0	22.0
		2595.0	22.56	22.06	20.83	23.5	23.0	22.0
		2580.0	22.57	22.12	20.83	23.5	23.0	22.0
	1RB_0	2610.0	22.26	21.79	20.58	23.5	23.0	22.0
		2595.0	22.25	21.84	20.55	23.5	23.0	22.0
		2580.0	22.30	21.82	20.59	23.5	23.0	22.0
	50RB_50	2610.0	21.99	20.99	19.89	23.0	22.0	21.0
		2595.0	21.99	20.98	19.95	23.0	22.0	21.0
		2580.0	22.02	21.05	20.00	23.0	22.0	21.0
	50RB_25	2610.0	21.93	21.04	19.94	23.0	22.0	21.0
		2595.0	21.98	21.01	19.93	23.0	22.0	21.0
		2580.0	21.97	21.05	19.94	23.0	22.0	21.0
	50RB_0	2610.0	21.98	21.03	19.93	23.0	22.0	21.0
		2595.0	21.93	20.97	19.92	23.0	22.0	21.0
		2580.0	21.94	21.00	19.90	23.0	22.0	21.0
	100RB_0	2610.0	22.01	21.00	20.03	23.0	22.0	21.0
		2595.0	22.04	21.03	20.03	23.0	22.0	21.0
		2580.0	21.97	21.05	20.05	23.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2617.5	20.88	20.95	20.62	22.0	22.0	22.0
		2595.0	20.81	20.89	20.67	22.0	22.0	22.0
		2572.5	20.90	20.95	20.68	22.0	22.0	22.0
	1RB_12	2617.5	20.98	21.17	20.83	22.0	22.0	22.0
		2595.0	20.97	21.13	20.83	22.0	22.0	22.0
		2572.5	21.06	21.18	20.85	22.0	22.0	22.0
	1RB_0	2617.5	20.87	20.88	20.61	22.0	22.0	22.0
		2595.0	20.84	20.90	20.65	22.0	22.0	22.0
		2572.5	20.92	20.97	20.58	22.0	22.0	22.0
	12RB_13	2617.5	20.98	20.96	19.98	22.0	22.0	21.0
		2595.0	21.01	20.91	19.99	22.0	22.0	21.0
		2572.5	21.08	20.91	19.96	22.0	22.0	21.0
	12RB_6	2617.5	21.08	21.06	20.07	22.0	22.0	21.0
		2595.0	21.10	20.95	19.99	22.0	22.0	21.0
		2572.5	21.10	21.03	20.01	22.0	22.0	21.0
	12RB_0	2617.5	21.01	20.94	19.95	22.0	22.0	21.0
		2595.0	20.99	20.90	19.94	22.0	22.0	21.0
		2572.5	21.03	20.94	19.97	22.0	22.0	21.0
	25RB_0	2617.5	20.95	21.03	20.05	22.0	22.0	21.0
		2595.0	20.93	20.95	19.94	22.0	22.0	21.0
		2572.5	20.97	20.96	19.99	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2615.0	21.00	21.09	20.69	22.0	22.0	22.0
		2595.0	20.98	20.89	20.71	22.0	22.0	22.0
		2575.0	20.97	21.32	20.77	22.0	22.0	22.0
	1RB_24	2615.0	21.09	21.12	20.85	22.0	22.0	22.0
		2595.0	21.09	21.13	20.82	22.0	22.0	22.0
		2575.0	21.14	21.15	20.85	22.0	22.0	22.0
	1RB_0	2615.0	20.98	21.02	20.70	22.0	22.0	22.0
		2595.0	20.99	21.10	20.79	22.0	22.0	22.0
		2575.0	21.04	21.06	20.76	22.0	22.0	22.0
	25RB_25	2615.0	21.02	21.03	20.00	22.0	22.0	21.0
		2595.0	20.96	20.97	20.00	22.0	22.0	21.0
		2575.0	21.05	21.09	20.05	22.0	22.0	21.0
	25RB_12	2615.0	21.00	21.04	20.02	22.0	22.0	21.0
		2595.0	21.01	21.02	19.98	22.0	22.0	21.0
		2575.0	21.01	21.06	20.07	22.0	22.0	21.0
	25RB_0	2615.0	20.99	21.07	20.02	22.0	22.0	21.0
		2595.0	20.95	21.00	19.94	22.0	22.0	21.0
		2575.0	20.99	20.95	20.03	22.0	22.0	21.0
	50RB_0	2615.0	20.85	21.04	19.92	22.0	22.0	21.0
		2595.0	20.86	20.94	19.83	22.0	22.0	21.0
		2575.0	20.89	21.03	19.97	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2612.5	20.91	20.94	20.68	22.0	22.0	22.0
		2595.0	20.90	20.90	20.62	22.0	22.0	22.0
		2577.5	20.91	21.00	20.68	22.0	22.0	22.0
	1RB_37	2612.5	20.98	20.99	20.69	22.0	22.0	22.0
		2595.0	20.98	21.01	20.74	22.0	22.0	22.0
		2577.5	21.02	21.09	20.76	22.0	22.0	22.0
	1RB_0	2612.5	20.89	20.77	20.35	22.0	22.0	22.0
		2595.0	20.89	20.89	20.81	22.0	22.0	22.0
		2577.5	20.95	20.99	20.67	22.0	22.0	22.0
	36RB_38	2612.5	20.99	20.91	19.89	22.0	22.0	21.0
		2595.0	21.03	20.94	19.99	22.0	22.0	21.0
		2577.5	21.08	20.96	19.96	22.0	22.0	21.0
	36RB_19	2612.5	21.03	20.84	19.97	22.0	22.0	21.0
		2595.0	21.06	20.99	19.94	22.0	22.0	21.0
		2577.5	21.10	20.98	19.98	22.0	22.0	21.0
	36RB_0	2612.5	21.04	20.88	19.93	22.0	22.0	21.0
		2595.0	21.00	20.89	19.95	22.0	22.0	21.0
		2577.5	20.99	20.88	19.97	22.0	22.0	21.0
	75RB_0	2612.5	20.92	20.82	19.84	22.0	22.0	21.0
		2595.0	20.95	20.95	19.86	22.0	22.0	21.0
		2577.5	20.92	20.91	19.87	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 38			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2610.0	20.72	20.78	20.46	22.0	22.0	22.0
		2595.0	20.68	20.73	20.43	22.0	22.0	22.0
		2580.0	20.70	20.80	20.51	22.0	22.0	22.0
	1RB_50	2610.0	21.03	21.08	20.84	22.0	22.0	22.0
		2595.0	21.02	21.04	20.76	22.0	22.0	22.0
		2580.0	21.01	21.05	20.82	22.0	22.0	22.0
	1RB_0	2610.0	20.75	20.76	20.46	22.0	22.0	22.0
		2595.0	20.77	20.83	20.52	22.0	22.0	22.0
		2580.0	20.80	20.81	20.57	22.0	22.0	22.0
	50RB_50	2610.0	20.81	20.95	19.80	22.0	22.0	21.0
		2595.0	20.84	20.93	19.84	22.0	22.0	21.0
		2580.0	20.93	20.98	19.94	22.0	22.0	21.0
	50RB_25	2610.0	20.88	20.92	19.85	22.0	22.0	21.0
		2595.0	20.89	20.95	19.88	22.0	22.0	21.0
		2580.0	20.89	20.98	19.91	22.0	22.0	21.0
	50RB_0	2610.0	20.86	20.99	19.93	22.0	22.0	21.0
		2595.0	20.86	20.92	19.85	22.0	22.0	21.0
		2580.0	20.89	20.94	19.86	22.0	22.0	21.0
	100RB_0	2610.0	20.99	20.94	19.96	22.0	22.0	21.0
		2595.0	20.97	20.95	19.94	22.0	22.0	21.0
		2580.0	21.03	21.00	20.00	22.0	22.0	21.0



Top Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2652.5	22.88	21.94	20.69	24.0	23.0	22.0
		2595.0	22.82	21.90	20.62	24.0	23.0	22.0
		2537.5	22.81	21.90	20.64	24.0	23.0	22.0
	1RB_12	2652.5	23.07	22.15	20.96	24.0	23.0	22.0
		2595.0	22.96	22.01	20.83	24.0	23.0	22.0
		2537.5	23.07	22.09	20.94	24.0	23.0	22.0
	1RB_0	2652.5	22.93	22.01	20.71	24.0	23.0	22.0
		2595.0	22.81	21.84	20.61	24.0	23.0	22.0
		2537.5	22.91	21.92	20.68	24.0	23.0	22.0
	12RB_13	2652.5	22.06	21.01	20.00	23.0	22.0	21.0
		2595.0	21.89	20.86	19.89	23.0	22.0	21.0
		2537.5	21.99	20.97	19.93	23.0	22.0	21.0
	12RB_6	2652.5	22.10	21.04	20.05	23.0	22.0	21.0
		2595.0	21.97	20.90	19.94	23.0	22.0	21.0
		2537.5	22.05	20.96	19.98	23.0	22.0	21.0
	12RB_0	2652.5	22.10	21.01	20.06	23.0	22.0	21.0
		2595.0	21.86	20.84	19.84	23.0	22.0	21.0
		2537.5	22.00	20.93	19.88	23.0	22.0	21.0
	25RB_0	2652.5	22.03	21.06	20.06	23.0	22.0	21.0
		2595.0	21.89	20.94	19.93	23.0	22.0	21.0
		2537.5	21.97	21.03	19.92	23.0	22.0	21.0



Top Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2650.0	22.96	22.02	20.74	24.0	23.0	22.0
		2595.0	22.95	21.96	20.71	24.0	23.0	22.0
		2540.0	22.92	22.01	20.71	24.0	23.0	22.0
	1RB_24	2650.0	23.10	22.17	20.85	24.0	23.0	22.0
		2595.0	23.01	22.02	20.76	24.0	23.0	22.0
		2540.0	23.03	22.09	20.84	24.0	23.0	22.0
	1RB_0	2650.0	23.02	22.13	20.84	24.0	23.0	22.0
		2595.0	22.87	21.92	20.69	24.0	23.0	22.0
		2540.0	22.98	22.04	20.77	24.0	23.0	22.0
	25RB_25	2650.0	22.02	21.04	20.11	23.0	22.0	21.0
		2595.0	21.88	20.90	19.91	23.0	22.0	21.0
		2540.0	22.01	21.12	19.97	23.0	22.0	21.0
	25RB_12	2650.0	22.10	21.11	20.13	23.0	22.0	21.0
		2595.0	21.95	20.99	20.00	23.0	22.0	21.0
		2540.0	21.97	21.04	20.04	23.0	22.0	21.0
	25RB_0	2650.0	22.12	21.15	20.15	23.0	22.0	21.0
		2595.0	21.94	20.85	19.90	23.0	22.0	21.0
		2540.0	21.96	21.02	19.89	23.0	22.0	21.0
	50RB_0	2650.0	22.01	21.13	20.01	23.0	22.0	21.0
		2595.0	21.80	20.98	19.78	23.0	22.0	21.0
		2540.0	21.92	21.06	19.83	23.0	22.0	21.0



Top Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2647.5	22.84	21.93	20.68	24.0	23.0	22.0
		2595.0	22.80	21.87	20.63	24.0	23.0	22.0
		2542.5	22.82	21.90	20.61	24.0	23.0	22.0
	1RB_37	2647.5	23.04	22.12	20.80	24.0	23.0	22.0
		2595.0	22.92	22.02	20.72	24.0	23.0	22.0
		2542.5	22.99	22.06	20.77	24.0	23.0	22.0
	1RB_0	2647.5	22.93	22.02	20.69	24.0	23.0	22.0
		2595.0	22.72	21.79	20.54	24.0	23.0	22.0
		2542.5	22.88	21.96	20.72	24.0	23.0	22.0
	36RB_38	2647.5	22.02	20.99	20.03	23.0	22.0	21.0
		2595.0	22.07	20.82	19.85	23.0	22.0	21.0
		2542.5	21.99	20.94	19.92	23.0	22.0	21.0
	36RB_19	2647.5	22.07	21.04	20.08	23.0	22.0	21.0
		2595.0	21.92	20.86	19.93	23.0	22.0	21.0
		2542.5	22.02	20.99	19.97	23.0	22.0	21.0
	36RB_0	2647.5	22.06	21.03	20.09	23.0	22.0	21.0
		2595.0	21.76	20.75	19.85	23.0	22.0	21.0
		2542.5	21.94	20.93	19.88	23.0	22.0	21.0
	75RB_0	2647.5	22.02	21.10	20.00	23.0	22.0	21.0
		2595.0	21.82	20.87	19.82	23.0	22.0	21.0
		2542.5	21.91	21.06	19.84	23.0	22.0	21.0



Top Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2645.0	22.69	21.77	20.50	24.0	23.0	22.0
		2595.0	22.67	21.68	20.43	24.0	23.0	22.0
		2545.0	22.53	21.53	20.36	24.0	23.0	22.0
	1RB_50	2645.0	23.09	22.20	20.91	24.0	23.0	22.0
		2595.0	22.91	22.00	20.75	24.0	23.0	22.0
		2545.0	23.06	22.12	20.82	24.0	23.0	22.0
	1RB_0	2645.0	22.74	21.84	20.51	24.0	23.0	22.0
		2595.0	22.53	21.61	20.38	24.0	23.0	22.0
		2545.0	22.73	21.80	20.49	24.0	23.0	22.0
	50RB_50	2645.0	21.90	21.07	19.98	23.0	22.0	21.0
		2595.0	21.79	21.07	19.84	23.0	22.0	21.0
		2545.0	21.90	21.07	19.86	23.0	22.0	21.0
	50RB_25	2645.0	22.04	21.16	20.05	23.0	22.0	21.0
		2595.0	21.83	21.00	19.83	23.0	22.0	21.0
		2545.0	21.87	21.08	19.90	23.0	22.0	21.0
	50RB_0	2645.0	22.02	21.09	19.99	23.0	22.0	21.0
		2595.0	21.75	20.93	19.73	23.0	22.0	21.0
		2545.0	21.80	20.95	19.79	23.0	22.0	21.0
	100RB_0	2645.0	22.02	21.12	20.03	23.0	22.0	21.0
		2595.0	21.88	20.98	19.84	23.0	22.0	21.0
		2545.0	21.90	21.02	19.90	23.0	22.0	21.0



Bottom Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2652.5	22.58	21.65	20.37	24.0	23.0	22.0
		2595.0	22.58	21.64	20.38	24.0	23.0	22.0
		2537.5	22.60	21.65	20.39	24.0	23.0	22.0
	1RB_12	2652.5	22.76	21.83	20.64	24.0	23.0	22.0
		2595.0	22.75	21.86	20.61	24.0	23.0	22.0
		2537.5	22.85	21.93	20.58	24.0	23.0	22.0
	1RB_0	2652.5	22.62	21.71	20.45	24.0	23.0	22.0
		2595.0	22.54	21.63	20.37	24.0	23.0	22.0
		2537.5	22.62	21.65	20.42	24.0	23.0	22.0
	12RB_13	2652.5	21.75	20.65	19.73	23.0	22.0	21.0
		2595.0	21.66	20.61	19.65	23.0	22.0	21.0
		2537.5	21.74	20.72	19.70	23.0	22.0	21.0
	12RB_6	2652.5	21.74	20.74	19.78	23.0	22.0	21.0
		2595.0	21.70	20.63	19.72	23.0	22.0	21.0
		2537.5	21.78	20.71	19.71	23.0	22.0	21.0
	12RB_0	2652.5	21.75	20.71	19.77	23.0	22.0	21.0
		2595.0	21.59	20.66	19.60	23.0	22.0	21.0
		2537.5	21.72	20.67	19.51	23.0	22.0	21.0
	25RB_0	2652.5	21.71	20.77	19.80	23.0	22.0	21.0
		2595.0	21.69	20.73	19.68	23.0	22.0	21.0
		2537.5	21.71	20.72	19.66	23.0	22.0	21.0



Bottom Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2650.0	22.62	21.72	20.45	24.0	23.0	22.0
		2595.0	22.64	21.70	20.43	24.0	23.0	22.0
		2540.0	22.63	21.72	20.47	24.0	23.0	22.0
	1RB_24	2650.0	22.79	21.87	20.59	24.0	23.0	22.0
		2595.0	22.75	21.74	20.51	24.0	23.0	22.0
		2540.0	22.72	21.85	20.53	24.0	23.0	22.0
	1RB_0	2650.0	22.71	21.81	20.51	24.0	23.0	22.0
		2595.0	22.62	21.68	20.38	24.0	23.0	22.0
		2540.0	22.72	21.76	20.52	24.0	23.0	22.0
	25RB_25	2650.0	21.73	20.74	19.79	23.0	22.0	21.0
		2595.0	21.72	20.71	19.68	23.0	22.0	21.0
		2540.0	21.81	20.83	19.78	23.0	22.0	21.0
	25RB_12	2650.0	21.79	20.82	19.84	23.0	22.0	21.0
		2595.0	21.66	20.66	19.76	23.0	22.0	21.0
		2540.0	21.72	20.80	19.78	23.0	22.0	21.0
	25RB_0	2650.0	21.80	20.84	19.87	23.0	22.0	21.0
		2595.0	21.70	20.73	19.67	23.0	22.0	21.0
		2540.0	21.69	20.74	19.64	23.0	22.0	21.0
	50RB_0	2650.0	21.69	20.82	19.71	23.0	22.0	21.0
		2595.0	21.60	20.75	19.62	23.0	22.0	21.0
		2540.0	21.65	20.82	19.58	23.0	22.0	21.0



Bottom Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2647.5	22.59	21.61	20.36	24.0	23.0	22.0
		2595.0	22.57	21.67	20.40	24.0	23.0	22.0
		2542.5	22.53	21.63	20.37	24.0	23.0	22.0
	1RB_37	2647.5	22.72	21.79	20.50	24.0	23.0	22.0
		2595.0	22.70	21.70	20.46	24.0	23.0	22.0
		2542.5	22.72	21.77	20.51	24.0	23.0	22.0
	1RB_0	2647.5	22.63	21.72	20.43	24.0	23.0	22.0
		2595.0	22.49	21.55	20.32	24.0	23.0	22.0
		2542.5	22.63	21.66	20.43	24.0	23.0	22.0
	36RB_38	2647.5	21.77	20.66	19.72	23.0	22.0	21.0
		2595.0	21.69	20.68	19.62	23.0	22.0	21.0
		2542.5	21.73	20.71	19.68	23.0	22.0	21.0
	36RB_19	2647.5	21.77	20.73	19.74	23.0	22.0	21.0
		2595.0	21.67	20.59	19.69	23.0	22.0	21.0
		2542.5	21.75	20.69	19.71	23.0	22.0	21.0
	36RB_0	2647.5	21.78	20.73	19.79	23.0	22.0	21.0
		2595.0	21.67	20.58	19.60	23.0	22.0	21.0
		2542.5	21.70	20.63	19.61	23.0	22.0	21.0
	75RB_0	2647.5	21.71	20.77	19.68	23.0	22.0	21.0
		2595.0	21.69	20.69	19.57	23.0	22.0	21.0
		2542.5	21.67	20.78	19.58	23.0	22.0	21.0



Bottom Antenna – Full Power								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2645.0	22.39	21.43	20.14	24.0	23.0	22.0
		2595.0	22.36	21.43	20.18	24.0	23.0	22.0
		2545.0	22.23	21.31	20.07	24.0	23.0	22.0
	1RB_50	2645.0	22.80	21.88	20.62	24.0	23.0	22.0
		2595.0	22.73	21.74	20.53	24.0	23.0	22.0
		2545.0	22.75	21.83	20.55	24.0	23.0	22.0
	1RB_0	2645.0	22.44	21.52	20.23	24.0	23.0	22.0
		2595.0	22.29	21.36	20.10	24.0	23.0	22.0
		2545.0	22.48	21.51	20.26	24.0	23.0	22.0
	50RB_50	2645.0	21.63	20.73	19.63	23.0	22.0	21.0
		2595.0	21.62	20.84	19.61	23.0	22.0	21.0
		2545.0	21.64	20.81	19.63	23.0	22.0	21.0
	50RB_25	2645.0	21.67	20.83	19.74	23.0	22.0	21.0
		2595.0	21.59	20.79	19.58	23.0	22.0	21.0
		2545.0	21.62	20.79	19.61	23.0	22.0	21.0
	50RB_0	2645.0	21.70	20.80	19.70	23.0	22.0	21.0
		2595.0	21.54	20.68	19.50	23.0	22.0	21.0
		2545.0	21.51	20.68	19.51	23.0	22.0	21.0
	100RB_0	2645.0	21.73	20.73	19.73	23.0	22.0	21.0
		2595.0	21.63	20.75	19.64	23.0	22.0	21.0
		2545.0	21.71	20.73	19.59	23.0	22.0	21.0



Top Antenna - Reduced power level 1								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2652.5	19.10	19.19	18.86	20.0	20.0	20.0
		2595.0	19.03	19.07	18.79	20.0	20.0	20.0
		2537.5	19.02	19.12	18.81	20.0	20.0	20.0
	1RB_12	2652.5	19.30	19.39	19.11	20.0	20.0	20.0
		2595.0	19.22	19.24	18.97	20.0	20.0	20.0
		2537.5	19.29	19.33	19.09	20.0	20.0	20.0
	1RB_0	2652.5	19.16	19.26	18.93	20.0	20.0	20.0
		2595.0	18.95	19.08	18.78	20.0	20.0	20.0
		2537.5	19.10	19.14	18.89	20.0	20.0	20.0
	12RB_13	2652.5	19.16	19.10	19.17	20.0	20.0	20.0
		2595.0	19.07	19.03	19.05	20.0	20.0	20.0
		2537.5	19.14	19.10	19.12	20.0	20.0	20.0
	12RB_6	2652.5	19.26	19.19	19.25	20.0	20.0	20.0
		2595.0	19.12	19.07	19.09	20.0	20.0	20.0
		2537.5	19.18	19.11	19.15	20.0	20.0	20.0
	12RB_0	2652.5	19.18	19.15	19.20	20.0	20.0	20.0
		2595.0	19.00	18.97	18.98	20.0	20.0	20.0
		2537.5	19.09	19.07	19.08	20.0	20.0	20.0
	25RB_0	2652.5	19.15	19.22	19.22	20.0	20.0	20.0
		2595.0	19.00	19.05	19.10	20.0	20.0	20.0
		2537.5	19.07	19.14	19.08	20.0	20.0	20.0



Top Antenna - Reduced power level 1								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2650.0	19.21	19.21	19.00	20.0	20.0	20.0
		2595.0	19.11	19.13	18.89	20.0	20.0	20.0
		2540.0	19.11	19.15	18.86	20.0	20.0	20.0
	1RB_24	2650.0	19.34	19.38	19.11	20.0	20.0	20.0
		2595.0	19.12	19.28	18.99	20.0	20.0	20.0
		2540.0	19.24	19.28	19.04	20.0	20.0	20.0
	1RB_0	2650.0	19.20	19.33	19.06	20.0	20.0	20.0
		2595.0	19.05	19.13	18.82	20.0	20.0	20.0
		2540.0	19.14	19.26	19.02	20.0	20.0	20.0
	25RB_25	2650.0	19.14	19.18	19.18	20.0	20.0	20.0
		2595.0	19.07	19.05	19.06	20.0	20.0	20.0
		2540.0	19.20	19.21	19.13	20.0	20.0	20.0
	25RB_12	2650.0	19.29	19.29	19.33	20.0	20.0	20.0
		2595.0	19.10	19.12	19.17	20.0	20.0	20.0
		2540.0	19.17	19.21	19.18	20.0	20.0	20.0
	25RB_0	2650.0	19.25	19.30	19.26	20.0	20.0	20.0
		2595.0	19.01	19.05	19.05	20.0	20.0	20.0
		2540.0	19.08	19.04	19.09	20.0	20.0	20.0
	50RB_0	2650.0	19.18	19.22	19.18	20.0	20.0	20.0
		2595.0	19.03	19.07	19.04	20.0	20.0	20.0
		2540.0	19.10	19.11	19.09	20.0	20.0	20.0



Top Antenna - Reduced power level 1								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2647.5	19.09	19.13	18.85	20.0	20.0	20.0
		2595.0	19.00	19.09	18.78	20.0	20.0	20.0
		2542.5	18.96	19.03	18.78	20.0	20.0	20.0
	1RB_37	2647.5	19.25	19.36	19.05	20.0	20.0	20.0
		2595.0	19.11	19.19	18.87	20.0	20.0	20.0
		2542.5	19.19	19.25	18.97	20.0	20.0	20.0
	1RB_0	2647.5	19.12	19.20	18.95	20.0	20.0	20.0
		2595.0	18.93	18.98	18.70	20.0	20.0	20.0
		2542.5	19.11	19.20	18.91	20.0	20.0	20.0
	36RB_38	2647.5	19.22	19.12	19.16	20.0	20.0	20.0
		2595.0	19.13	19.05	19.03	20.0	20.0	20.0
		2542.5	19.16	19.04	19.14	20.0	20.0	20.0
	36RB_19	2647.5	19.24	19.19	19.22	20.0	20.0	20.0
		2595.0	19.14	19.09	19.04	20.0	20.0	20.0
		2542.5	19.18	19.07	19.17	20.0	20.0	20.0
	36RB_0	2647.5	19.23	19.13	19.20	20.0	20.0	20.0
		2595.0	19.07	18.93	18.97	20.0	20.0	20.0
		2542.5	19.12	18.98	19.08	20.0	20.0	20.0
	75RB_0	2647.5	19.24	19.22	19.22	20.0	20.0	20.0
		2595.0	19.05	19.06	19.05	20.0	20.0	20.0
		2542.5	19.05	19.04	19.02	20.0	20.0	20.0



Top Antenna - Reduced power level 1								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2645.0	18.87	18.96	18.68	20.0	20.0	20.0
		2595.0	18.80	18.90	18.63	20.0	20.0	20.0
		2545.0	18.68	18.76	18.50	20.0	20.0	20.0
	1RB_50	2645.0	19.29	19.38	19.13	20.0	20.0	20.0
		2595.0	19.25	19.25	18.94	20.0	20.0	20.0
		2545.0	19.27	19.26	18.96	20.0	20.0	20.0
	1RB_0	2645.0	18.93	19.04	18.74	20.0	20.0	20.0
		2595.0	18.71	18.84	18.55	20.0	20.0	20.0
		2545.0	18.95	19.02	18.68	20.0	20.0	20.0
	50RB_50	2645.0	19.20	19.25	19.22	20.0	20.0	20.0
		2595.0	19.03	19.05	19.02	20.0	20.0	20.0
		2545.0	19.03	19.12	19.10	20.0	20.0	20.0
	50RB_25	2645.0	19.28	19.33	19.30	20.0	20.0	20.0
		2595.0	19.00	19.03	19.01	20.0	20.0	20.0
		2545.0	19.07	19.13	19.12	20.0	20.0	20.0
	50RB_0	2645.0	19.26	19.28	19.23	20.0	20.0	20.0
		2595.0	18.95	18.98	18.98	20.0	20.0	20.0
		2545.0	18.94	19.00	18.95	20.0	20.0	20.0
	100RB_0	2645.0	19.19	19.23	19.19	20.0	20.0	20.0
		2595.0	18.99	19.04	19.04	20.0	20.0	20.0
		2545.0	19.04	19.06	19.04	20.0	20.0	20.0



Top Antenna - Reduced power level 2								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2652.5	17.61	17.72	17.43	18.5	18.5	18.5
		2595.0	17.50	17.60	17.33	18.5	18.5	18.5
		2537.5	17.54	17.62	17.35	18.5	18.5	18.5
	1RB_12	2652.5	17.92	18.01	17.71	18.5	18.5	18.5
		2595.0	17.69	17.82	17.52	18.5	18.5	18.5
		2537.5	17.77	17.87	17.61	18.5	18.5	18.5
	1RB_0	2652.5	17.67	17.84	17.48	18.5	18.5	18.5
		2595.0	17.45	17.59	17.30	18.5	18.5	18.5
		2537.5	17.60	17.67	17.44	18.5	18.5	18.5
	12RB_13	2652.5	17.65	17.62	17.66	18.5	18.5	18.5
		2595.0	17.59	17.50	17.53	18.5	18.5	18.5
		2537.5	17.63	17.61	17.66	18.5	18.5	18.5
	12RB_6	2652.5	17.74	17.70	17.78	18.5	18.5	18.5
		2595.0	17.66	17.58	17.68	18.5	18.5	18.5
		2537.5	17.74	17.69	17.72	18.5	18.5	18.5
	12RB_0	2652.5	17.72	17.68	17.69	18.5	18.5	18.5
		2595.0	17.57	17.45	17.51	18.5	18.5	18.5
		2537.5	17.60	17.58	17.62	18.5	18.5	18.5
	25RB_0	2652.5	17.69	17.76	17.80	18.5	18.5	18.5
		2595.0	17.57	17.67	17.59	18.5	18.5	18.5
		2537.5	17.61	17.60	17.61	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2650.0	17.66	17.80	17.51	18.5	18.5	18.5
		2595.0	17.59	17.74	17.43	18.5	18.5	18.5
		2540.0	17.65	17.73	17.43	18.5	18.5	18.5
	1RB_24	2650.0	17.84	17.92	17.65	18.5	18.5	18.5
		2595.0	17.69	17.79	17.50	18.5	18.5	18.5
		2540.0	17.71	17.83	17.56	18.5	18.5	18.5
	1RB_0	2650.0	17.77	17.87	17.59	18.5	18.5	18.5
		2595.0	17.59	17.68	17.40	18.5	18.5	18.5
		2540.0	17.68	17.82	17.52	18.5	18.5	18.5
	25RB_25	2650.0	17.64	17.72	17.73	18.5	18.5	18.5
		2595.0	17.65	17.60	17.65	18.5	18.5	18.5
		2540.0	17.62	17.68	17.71	18.5	18.5	18.5
	25RB_12	2650.0	17.79	17.80	17.87	18.5	18.5	18.5
		2595.0	17.58	17.69	17.72	18.5	18.5	18.5
		2540.0	17.65	17.71	17.69	18.5	18.5	18.5
	25RB_0	2650.0	17.68	17.80	17.85	18.5	18.5	18.5
		2595.0	17.54	17.62	17.66	18.5	18.5	18.5
		2540.0	17.59	17.64	17.63	18.5	18.5	18.5
	50RB_0	2650.0	17.78	17.84	17.82	18.5	18.5	18.5
		2595.0	17.64	17.67	17.66	18.5	18.5	18.5
		2540.0	17.72	17.73	17.62	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2647.5	17.54	17.70	17.41	18.5	18.5	18.5
		2595.0	17.50	17.61	17.33	18.5	18.5	18.5
		2542.5	17.44	17.55	17.33	18.5	18.5	18.5
	1RB_37	2647.5	17.74	17.88	17.55	18.5	18.5	18.5
		2595.0	17.55	17.74	17.46	18.5	18.5	18.5
		2542.5	17.66	17.74	17.50	18.5	18.5	18.5
	1RB_0	2647.5	17.66	17.71	17.53	18.5	18.5	18.5
		2595.0	17.40	17.57	17.24	18.5	18.5	18.5
		2542.5	17.60	17.70	17.46	18.5	18.5	18.5
	36RB_38	2647.5	17.76	17.72	17.75	18.5	18.5	18.5
		2595.0	17.60	17.55	17.59	18.5	18.5	18.5
		2542.5	17.67	17.63	17.62	18.5	18.5	18.5
	36RB_19	2647.5	17.79	17.79	17.82	18.5	18.5	18.5
		2595.0	17.69	17.62	17.64	18.5	18.5	18.5
		2542.5	17.69	17.66	17.68	18.5	18.5	18.5
	36RB_0	2647.5	17.78	17.74	17.78	18.5	18.5	18.5
		2595.0	17.61	17.56	17.59	18.5	18.5	18.5
		2542.5	17.61	17.56	17.60	18.5	18.5	18.5
	75RB_0	2647.5	17.72	17.82	17.81	18.5	18.5	18.5
		2595.0	17.59	17.67	17.62	18.5	18.5	18.5
		2542.5	17.66	17.70	17.67	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2645.0	17.40	17.52	17.21	18.5	18.5	18.5
		2595.0	17.31	17.43	17.15	18.5	18.5	18.5
		2545.0	17.18	17.30	17.05	18.5	18.5	18.5
	1RB_50	2645.0	17.82	17.94	17.63	18.5	18.5	18.5
		2595.0	17.68	17.75	17.46	18.5	18.5	18.5
		2545.0	17.71	17.81	17.54	18.5	18.5	18.5
	1RB_0	2645.0	17.48	17.57	17.34	18.5	18.5	18.5
		2595.0	17.21	17.33	17.07	18.5	18.5	18.5
		2545.0	17.46	17.54	17.25	18.5	18.5	18.5
	50RB_50	2645.0	17.74	17.83	17.80	18.5	18.5	18.5
		2595.0	17.62	17.74	17.70	18.5	18.5	18.5
		2545.0	17.63	17.71	17.71	18.5	18.5	18.5
	50RB_25	2645.0	17.84	17.90	17.88	18.5	18.5	18.5
		2595.0	17.66	17.76	17.73	18.5	18.5	18.5
		2545.0	17.65	17.71	17.69	18.5	18.5	18.5
	50RB_0	2645.0	17.80	17.86	17.82	18.5	18.5	18.5
		2595.0	17.56	17.62	17.60	18.5	18.5	18.5
		2545.0	17.58	17.61	17.58	18.5	18.5	18.5
	100RB_0	2645.0	17.73	17.77	17.80	18.5	18.5	18.5
		2595.0	17.57	17.62	17.64	18.5	18.5	18.5
		2545.0	17.57	17.61	17.62	18.5	18.5	18.5



Top Antenna - Reduced power level 3								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2652.5	21.41	21.47	20.69	22.5	22.5	22.0
		2595.0	21.28	21.39	20.65	22.5	22.5	22.0
		2537.5	21.31	21.39	20.68	22.5	22.5	22.0
	1RB_12	2652.5	21.65	21.70	20.94	22.5	22.5	22.0
		2595.0	21.51	21.61	20.81	22.5	22.5	22.0
		2537.5	21.60	21.60	20.96	22.5	22.5	22.0
	1RB_0	2652.5	21.44	21.51	20.73	22.5	22.5	22.0
		2595.0	21.24	21.39	20.58	22.5	22.5	22.0
		2537.5	21.37	21.50	20.70	22.5	22.5	22.0
	12RB_13	2652.5	21.52	20.98	19.99	22.5	22.0	21.0
		2595.0	21.38	20.87	19.88	22.5	22.0	21.0
		2537.5	21.49	20.99	19.92	22.5	22.0	21.0
	12RB_6	2652.5	21.55	21.04	20.04	22.5	22.0	21.0
		2595.0	21.46	20.94	19.93	22.5	22.0	21.0
		2537.5	21.58	20.99	19.98	22.5	22.0	21.0
	12RB_0	2652.5	21.55	21.00	20.04	22.5	22.0	21.0
		2595.0	21.31	20.81	19.85	22.5	22.0	21.0
		2537.5	21.44	20.91	19.91	22.5	22.0	21.0
	25RB_0	2652.5	21.54	21.07	20.04	22.5	22.0	21.0
		2595.0	21.37	20.90	19.90	22.5	22.0	21.0
		2537.5	21.44	21.02	19.96	22.5	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2650.0	21.46	21.54	20.77	22.5	22.5	22.0
		2595.0	21.41	21.46	20.68	22.5	22.5	22.0
		2540.0	21.45	21.49	20.74	22.5	22.5	22.0
	1RB_24	2650.0	21.60	21.69	20.87	22.5	22.5	22.0
		2595.0	21.47	21.54	20.78	22.5	22.5	22.0
		2540.0	21.48	21.59	20.81	22.5	22.5	22.0
	1RB_0	2650.0	21.52	21.62	20.83	22.5	22.5	22.0
		2595.0	21.32	21.44	20.68	22.5	22.5	22.0
		2540.0	21.47	21.54	20.78	22.5	22.5	22.0
	25RB_25	2650.0	21.52	21.05	20.11	22.5	22.0	21.0
		2595.0	21.36	20.92	19.86	22.5	22.0	21.0
		2540.0	21.52	21.08	20.00	22.5	22.0	21.0
	25RB_12	2650.0	21.55	21.11	20.18	22.5	22.0	21.0
		2595.0	21.41	21.01	19.95	22.5	22.0	21.0
		2540.0	21.49	21.03	20.00	22.5	22.0	21.0
	25RB_0	2650.0	21.63	21.14	20.15	22.5	22.0	21.0
		2595.0	21.27	20.88	19.78	22.5	22.0	21.0
		2540.0	21.46	21.01	19.89	22.5	22.0	21.0
	50RB_0	2650.0	21.59	21.11	20.01	22.5	22.0	21.0
		2595.0	21.31	21.00	19.82	22.5	22.0	21.0
		2540.0	21.46	21.06	19.86	22.5	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2647.5	21.37	21.45	20.68	22.5	22.5	22.0
		2595.0	21.32	21.40	20.62	22.5	22.5	22.0
		2542.5	21.29	21.41	20.63	22.5	22.5	22.0
	1RB_37	2647.5	21.55	21.64	20.79	22.5	22.5	22.0
		2595.0	21.38	21.45	20.73	22.5	22.5	22.0
		2542.5	21.44	21.57	20.78	22.5	22.5	22.0
	1RB_0	2647.5	21.44	21.54	20.74	22.5	22.5	22.0
		2595.0	21.21	21.27	20.58	22.5	22.5	22.0
		2542.5	21.42	21.49	20.72	22.5	22.5	22.0
	36RB_38	2647.5	21.57	21.02	20.04	22.5	22.0	21.0
		2595.0	21.37	20.91	19.93	22.5	22.0	21.0
		2542.5	21.77	21.01	19.87	22.5	22.0	21.0
	36RB_19	2647.5	21.59	21.03	20.07	22.5	22.0	21.0
		2595.0	21.44	20.93	19.93	22.5	22.0	21.0
		2542.5	21.53	20.99	19.98	22.5	22.0	21.0
	36RB_0	2647.5	21.56	21.04	20.09	22.5	22.0	21.0
		2595.0	21.36	20.81	19.85	22.5	22.0	21.0
		2542.5	21.46	20.91	19.92	22.5	22.0	21.0
	75RB_0	2647.5	21.60	21.12	20.02	22.5	22.0	21.0
		2595.0	21.42	21.10	19.84	22.5	22.0	21.0
		2542.5	21.52	21.11	19.87	22.5	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2645.0	21.20	21.31	20.50	22.5	22.5	22.0
		2595.0	21.13	21.20	20.42	22.5	22.5	22.0
		2545.0	20.94	21.07	20.35	22.5	22.5	22.0
	1RB_50	2645.0	21.62	21.71	20.95	22.5	22.5	22.0
		2595.0	21.51	21.59	20.78	22.5	22.5	22.0
		2545.0	21.53	21.66	20.81	22.5	22.5	22.0
	1RB_0	2645.0	21.27	21.33	20.55	22.5	22.5	22.0
		2595.0	21.03	21.13	20.39	22.5	22.5	22.0
		2545.0	21.24	21.36	20.52	22.5	22.5	22.0
	50RB_50	2645.0	21.49	21.09	19.98	22.5	22.0	21.0
		2595.0	21.41	21.03	19.87	22.5	22.0	21.0
		2545.0	21.40	21.06	19.87	22.5	22.0	21.0
	50RB_25	2645.0	21.59	21.15	20.05	22.5	22.0	21.0
		2595.0	21.41	21.02	19.85	22.5	22.0	21.0
		2545.0	21.41	21.07	19.90	22.5	22.0	21.0
	50RB_0	2645.0	21.55	21.14	20.01	22.5	22.0	21.0
		2595.0	21.29	20.97	19.76	22.5	22.0	21.0
		2545.0	21.32	20.97	19.78	22.5	22.0	21.0
	100RB_0	2645.0	21.53	21.09	20.03	22.5	22.0	21.0
		2595.0	21.39	20.96	19.89	22.5	22.0	21.0
		2545.0	21.43	21.04	19.86	22.5	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	2652.5	19.93	19.96	19.67	21.0	21.0	21.0
		2595.0	19.81	19.87	19.59	21.0	21.0	21.0
		2537.5	19.80	19.92	19.66	21.0	21.0	21.0
	1RB_12	2652.5	20.10	20.14	19.91	21.0	21.0	21.0
		2595.0	19.98	19.99	19.74	21.0	21.0	21.0
		2537.5	20.07	20.10	19.83	21.0	21.0	21.0
	1RB_0	2652.5	19.92	19.99	19.70	21.0	21.0	21.0
		2595.0	19.78	19.83	19.55	21.0	21.0	21.0
		2537.5	19.89	19.96	19.69	21.0	21.0	21.0
	12RB_13	2652.5	19.81	19.97	19.97	21.0	21.0	21.0
		2595.0	19.90	19.84	19.86	21.0	21.0	21.0
		2537.5	19.95	19.91	19.94	21.0	21.0	21.0
	12RB_6	2652.5	20.02	20.02	20.05	21.0	21.0	21.0
		2595.0	19.95	19.89	19.93	21.0	21.0	21.0
		2537.5	20.02	19.96	19.97	21.0	21.0	21.0
	12RB_0	2652.5	19.89	20.02	20.03	21.0	21.0	21.0
		2595.0	19.89	19.82	19.82	21.0	21.0	21.0
		2537.5	19.95	19.86	19.88	21.0	21.0	21.0
	25RB_0	2652.5	20.02	20.11	20.04	21.0	21.0	21.0
		2595.0	19.90	19.90	19.86	21.0	21.0	21.0
		2537.5	19.98	19.93	19.94	21.0	21.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	2650.0	19.98	20.05	19.73	21.0	21.0	21.0
		2595.0	19.91	19.99	19.65	21.0	21.0	21.0
		2540.0	19.92	19.98	19.71	21.0	21.0	21.0
	1RB_24	2650.0	20.10	20.18	19.87	21.0	21.0	21.0
		2595.0	19.98	20.04	19.73	21.0	21.0	21.0
		2540.0	20.03	20.09	19.80	21.0	21.0	21.0
	1RB_0	2650.0	20.03	20.12	19.80	21.0	21.0	21.0
		2595.0	19.89	19.95	19.66	21.0	21.0	21.0
		2540.0	20.02	20.06	19.78	21.0	21.0	21.0
	25RB_25	2650.0	19.92	20.08	20.08	21.0	21.0	21.0
		2595.0	19.81	19.88	19.88	21.0	21.0	21.0
		2540.0	19.96	19.91	19.93	21.0	21.0	21.0
	25RB_12	2650.0	20.10	20.08	20.13	21.0	21.0	21.0
		2595.0	19.91	19.92	19.95	21.0	21.0	21.0
		2540.0	19.98	19.98	19.99	21.0	21.0	21.0
	25RB_0	2650.0	20.07	20.13	20.07	21.0	21.0	21.0
		2595.0	19.81	19.81	19.88	21.0	21.0	21.0
		2540.0	19.85	19.85	19.86	21.0	21.0	21.0
	50RB_0	2650.0	19.97	19.98	20.00	21.0	21.0	21.0
		2595.0	19.79	19.82	19.80	21.0	21.0	21.0
		2540.0	19.85	19.82	19.84	21.0	21.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	2647.5	19.84	19.91	19.66	21.0	21.0	21.0
		2595.0	19.82	19.89	19.59	21.0	21.0	21.0
		2542.5	19.77	19.85	19.59	21.0	21.0	21.0
	1RB_37	2647.5	20.06	20.13	19.79	21.0	21.0	21.0
		2595.0	19.87	19.99	19.67	21.0	21.0	21.0
		2542.5	19.96	20.05	19.75	21.0	21.0	21.0
	1RB_0	2647.5	19.94	19.98	19.72	21.0	21.0	21.0
		2595.0	19.76	19.82	19.50	21.0	21.0	21.0
		2542.5	19.89	19.98	19.70	21.0	21.0	21.0
	36RB_38	2647.5	19.98	19.97	20.03	21.0	21.0	21.0
		2595.0	19.93	19.83	19.84	21.0	21.0	21.0
		2542.5	19.97	19.89	19.91	21.0	21.0	21.0
	36RB_19	2647.5	20.08	20.02	20.05	21.0	21.0	21.0
		2595.0	19.98	19.87	19.89	21.0	21.0	21.0
		2542.5	20.00	19.93	19.96	21.0	21.0	21.0
	36RB_0	2647.5	20.03	20.05	20.01	21.0	21.0	21.0
		2595.0	19.88	19.81	19.82	21.0	21.0	21.0
		2542.5	19.93	19.84	19.87	21.0	21.0	21.0
	75RB_0	2647.5	19.93	20.03	20.08	21.0	21.0	21.0
		2595.0	19.82	19.83	19.81	21.0	21.0	21.0
		2542.5	19.84	19.86	19.83	21.0	21.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 41			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	2645.0	19.69	19.81	19.49	21.0	21.0	21.0
		2595.0	19.61	19.69	19.39	21.0	21.0	21.0
		2545.0	19.50	19.62	19.30	21.0	21.0	21.0
	1RB_50	2645.0	20.07	20.14	19.85	21.0	21.0	21.0
		2595.0	19.91	19.98	19.72	21.0	21.0	21.0
		2545.0	20.02	20.06	19.73	21.0	21.0	21.0
	1RB_0	2645.0	19.78	19.86	19.51	21.0	21.0	21.0
		2595.0	19.50	19.60	19.32	21.0	21.0	21.0
		2545.0	19.76	19.81	19.55	21.0	21.0	21.0
	50RB_50	2645.0	19.91	19.97	19.94	21.0	21.0	21.0
		2595.0	19.84	19.86	19.83	21.0	21.0	21.0
		2545.0	19.87	19.89	19.87	21.0	21.0	21.0
	50RB_25	2645.0	19.99	20.04	20.01	21.0	21.0	21.0
		2595.0	19.84	19.85	19.81	21.0	21.0	21.0
		2545.0	19.88	19.89	19.86	21.0	21.0	21.0
	50RB_0	2645.0	19.96	20.01	19.97	21.0	21.0	21.0
		2595.0	19.68	19.74	19.72	21.0	21.0	21.0
		2545.0	19.76	19.77	19.72	21.0	21.0	21.0
	100RB_0	2645.0	20.01	20.02	19.99	21.0	21.0	21.0
		2595.0	19.86	19.83	19.82	21.0	21.0	21.0
		2545.0	19.86	19.85	19.85	21.0	21.0	21.0



Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	23.25	22.54	21.43	24.0	23.0	22.0
		1745.0	23.34	22.57	21.53	24.0	23.0	22.0
		1710.7	23.22	22.42	21.44	24.0	23.0	22.0
	1RB_3	1779.3	23.43	22.64	21.61	24.0	23.0	22.0
		1745.0	23.45	22.72	21.71	24.0	23.0	22.0
		1710.7	23.36	22.58	21.62	24.0	23.0	22.0
	1RB_0	1779.3	23.31	22.49	21.45	24.0	23.0	22.0
		1745.0	23.36	22.61	21.54	24.0	23.0	22.0
		1710.7	23.21	22.44	21.50	24.0	23.0	22.0
	3RB_3	1779.3	23.37	22.34	21.55	24.0	23.0	22.0
		1745.0	23.44	22.47	21.60	24.0	23.0	22.0
		1710.7	23.29	22.33	21.47	24.0	23.0	22.0
	3RB_1	1779.3	23.48	22.36	21.58	24.0	23.0	22.0
		1745.0	23.52	22.51	21.65	24.0	23.0	22.0
		1710.7	23.34	22.43	21.44	24.0	23.0	22.0
	3RB_0	1779.3	23.40	22.29	21.49	24.0	23.0	22.0
		1745.0	23.46	22.51	21.55	24.0	23.0	22.0
		1710.7	23.29	22.35	21.42	24.0	23.0	22.0
	6RB_0	1779.3	22.46	21.49	20.35	23.0	22.0	21.0
		1745.0	22.52	21.56	20.47	23.0	22.0	21.0
		1710.7	22.35	21.42	20.34	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	23.30	22.51	21.47	24.0	23.0	22.0
		1745.0	23.38	22.69	21.56	24.0	23.0	22.0
		1711.5	23.28	22.62	21.54	24.0	23.0	22.0
	1RB_7	1778.5	23.52	22.64	21.60	24.0	23.0	22.0
		1745.0	23.57	22.95	21.75	24.0	23.0	22.0
		1711.5	23.52	22.70	21.68	24.0	23.0	22.0
	1RB_0	1778.5	23.32	22.57	21.53	24.0	23.0	22.0
		1745.0	23.37	22.74	21.56	24.0	23.0	22.0
		1711.5	23.30	22.62	21.51	24.0	23.0	22.0
	8RB_7	1778.5	22.35	21.42	20.39	23.0	22.0	21.0
		1745.0	22.41	21.52	20.48	23.0	22.0	21.0
		1711.5	22.31	21.34	20.33	23.0	22.0	21.0
	8RB_4	1778.5	22.42	21.43	20.44	23.0	22.0	21.0
		1745.0	22.48	21.52	20.52	23.0	22.0	21.0
		1711.5	22.38	21.41	20.35	23.0	22.0	21.0
	8RB_0	1778.5	22.41	21.40	20.42	23.0	22.0	21.0
		1745.0	22.46	21.44	20.49	23.0	22.0	21.0
		1711.5	22.30	21.34	20.34	23.0	22.0	21.0
	15RB_0	1778.5	22.44	21.38	20.33	23.0	22.0	21.0
		1745.0	22.45	21.42	20.43	23.0	22.0	21.0
		1711.5	22.32	21.32	20.28	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	23.16	22.40	21.26	24.0	23.0	22.0
		1745.0	23.27	22.53	21.36	24.0	23.0	22.0
		1712.5	23.13	22.39	21.33	24.0	23.0	22.0
	1RB_12	1777.5	23.53	22.70	21.58	24.0	23.0	22.0
		1745.0	23.53	22.72	21.74	24.0	23.0	22.0
		1712.5	23.42	22.73	21.77	24.0	23.0	22.0
	1RB_0	1777.5	23.20	22.44	21.26	24.0	23.0	22.0
		1745.0	23.23	22.57	21.48	24.0	23.0	22.0
		1712.5	23.13	22.43	21.30	24.0	23.0	22.0
	12RB_13	1777.5	22.42	21.33	20.29	23.0	22.0	21.0
		1745.0	22.44	21.43	20.42	23.0	22.0	21.0
		1712.5	22.35	21.37	20.38	23.0	22.0	21.0
	12RB_6	1777.5	22.49	21.46	20.36	23.0	22.0	21.0
		1745.0	22.48	21.51	20.53	23.0	22.0	21.0
		1712.5	22.34	21.34	20.35	23.0	22.0	21.0
	12RB_0	1777.5	22.41	21.42	20.33	23.0	22.0	21.0
		1745.0	22.43	21.47	20.44	23.0	22.0	21.0
		1712.5	22.28	21.29	20.28	23.0	22.0	21.0
	25RB_0	1777.5	22.41	21.38	20.40	23.0	22.0	21.0
		1745.0	22.46	21.45	20.43	23.0	22.0	21.0
		1712.5	22.29	21.33	20.29	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	23.24	22.54	21.45	24.0	23.0	22.0
		1745.0	23.29	22.55	21.51	24.0	23.0	22.0
		1715.0	23.26	22.56	21.49	24.0	23.0	22.0
	1RB_24	1775.0	23.41	22.66	21.58	24.0	23.0	22.0
		1745.0	23.44	22.74	21.66	24.0	23.0	22.0
		1715.0	23.37	22.52	21.54	24.0	23.0	22.0
	1RB_0	1775.0	23.32	22.56	21.54	24.0	23.0	22.0
		1745.0	23.40	22.62	21.60	24.0	23.0	22.0
		1715.0	23.24	22.44	21.47	24.0	23.0	22.0
	25RB_25	1775.0	22.46	21.43	20.34	23.0	22.0	21.0
		1745.0	22.47	21.48	20.48	23.0	22.0	21.0
		1715.0	22.40	21.40	20.36	23.0	22.0	21.0
	25RB_12	1775.0	22.46	21.42	20.41	23.0	22.0	21.0
		1745.0	22.50	21.49	20.46	23.0	22.0	21.0
		1715.0	22.33	21.36	20.29	23.0	22.0	21.0
	25RB_0	1775.0	22.54	21.54	20.48	23.0	22.0	21.0
		1745.0	22.49	21.42	20.45	23.0	22.0	21.0
		1715.0	22.29	21.29	20.27	23.0	22.0	21.0
	50RB_0	1775.0	22.50	21.49	20.43	23.0	22.0	21.0
		1745.0	22.49	21.50	20.44	23.0	22.0	21.0
		1715.0	22.35	21.33	20.31	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	23.18	22.42	21.35	24.0	23.0	22.0
		1745.0	23.24	22.52	21.48	24.0	23.0	22.0
		1717.5	23.19	22.55	21.46	24.0	23.0	22.0
	1RB_37	1772.5	23.37	22.56	21.49	24.0	23.0	22.0
		1745.0	23.37	22.70	21.68	24.0	23.0	22.0
		1717.5	23.29	22.56	21.54	24.0	23.0	22.0
	1RB_0	1772.5	23.30	22.56	21.45	24.0	23.0	22.0
		1745.0	23.36	22.69	21.69	24.0	23.0	22.0
		1717.5	23.19	22.48	21.44	24.0	23.0	22.0
	36RB_38	1772.5	22.46	21.40	20.36	23.0	22.0	21.0
		1745.0	22.43	21.44	20.38	23.0	22.0	21.0
		1717.5	22.39	21.38	20.40	23.0	22.0	21.0
	36RB_19	1772.5	22.46	21.39	20.40	23.0	22.0	21.0
		1745.0	22.47	21.42	20.44	23.0	22.0	21.0
		1717.5	22.35	21.36	20.33	23.0	22.0	21.0
	36RB_0	1772.5	22.46	21.41	20.43	23.0	22.0	21.0
		1745.0	22.50	21.47	20.46	23.0	22.0	21.0
		1717.5	22.30	21.29	20.26	23.0	22.0	21.0
	75RB_0	1772.5	22.45	21.42	20.36	23.0	22.0	21.0
		1745.0	22.43	21.46	20.41	23.0	22.0	21.0
		1717.5	22.34	21.32	20.33	23.0	22.0	21.0



Top Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	22.98	22.15	21.22	24.0	23.0	22.0
		1745.0	22.99	22.26	21.13	24.0	23.0	22.0
		1720.0	22.95	22.38	21.11	24.0	23.0	22.0
	1RB_50	1770.0	23.37	22.48	21.48	24.0	23.0	22.0
		1745.0	23.42	22.69	21.56	24.0	23.0	22.0
		1720.0	23.28	22.68	21.46	24.0	23.0	22.0
	1RB_0	1770.0	23.04	22.22	21.18	24.0	23.0	22.0
		1745.0	23.14	22.48	21.33	24.0	23.0	22.0
		1720.0	23.01	22.36	21.07	24.0	23.0	22.0
	50RB_50	1770.0	22.35	21.29	20.28	23.0	22.0	21.0
		1745.0	22.44	21.42	20.39	23.0	22.0	21.0
		1720.0	22.35	21.33	20.36	23.0	22.0	21.0
	50RB_25	1770.0	22.45	21.41	20.39	23.0	22.0	21.0
		1745.0	22.43	21.47	20.44	23.0	22.0	21.0
		1720.0	22.34	21.34	20.31	23.0	22.0	21.0
	50RB_0	1770.0	22.47	21.47	20.41	23.0	22.0	21.0
		1745.0	22.42	21.43	20.43	23.0	22.0	21.0
		1720.0	22.25	21.28	20.28	23.0	22.0	21.0
	100RB_0	1770.0	22.36	21.37	20.33	23.0	22.0	21.0
		1745.0	22.44	21.39	20.43	23.0	22.0	21.0
		1720.0	22.27	21.25	20.27	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	23.01	22.17	21.02	24.0	23.0	22.0
		1745.0	23.03	22.33	21.12	24.0	23.0	22.0
		1710.7	22.89	22.17	21.10	24.0	23.0	22.0
	1RB_3	1779.3	23.07	22.32	21.12	24.0	23.0	22.0
		1745.0	23.21	22.50	21.29	24.0	23.0	22.0
		1710.7	23.06	22.36	21.18	24.0	23.0	22.0
	1RB_0	1779.3	22.97	22.21	21.07	24.0	23.0	22.0
		1745.0	23.01	22.29	21.22	24.0	23.0	22.0
		1710.7	22.94	22.18	21.16	24.0	23.0	22.0
	3RB_3	1779.3	23.12	22.02	21.24	24.0	23.0	22.0
		1745.0	23.18	22.17	21.19	24.0	23.0	22.0
		1710.7	23.04	22.08	21.09	24.0	23.0	22.0
	3RB_1	1779.3	23.14	22.11	21.27	24.0	23.0	22.0
		1745.0	23.19	22.27	21.32	24.0	23.0	22.0
		1710.7	23.08	22.15	21.20	24.0	23.0	22.0
	3RB_0	1779.3	23.07	22.07	21.25	24.0	23.0	22.0
		1745.0	23.15	22.23	21.24	24.0	23.0	22.0
		1710.7	23.02	22.08	21.18	24.0	23.0	22.0
	6RB_0	1779.3	22.17	21.23	20.10	23.0	22.0	21.0
		1745.0	22.21	21.26	20.16	23.0	22.0	21.0
		1710.7	22.06	21.18	20.10	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	23.01	22.24	21.25	24.0	23.0	22.0
		1745.0	23.05	22.29	21.38	24.0	23.0	22.0
		1711.5	23.00	22.29	21.23	24.0	23.0	22.0
	1RB_7	1778.5	23.21	22.45	21.46	24.0	23.0	22.0
		1745.0	23.33	22.52	21.50	24.0	23.0	22.0
		1711.5	23.20	22.37	21.46	24.0	23.0	22.0
	1RB_0	1778.5	23.04	22.31	21.25	24.0	23.0	22.0
		1745.0	23.09	22.34	21.37	24.0	23.0	22.0
		1711.5	22.98	22.25	21.04	24.0	23.0	22.0
	8RB_7	1778.5	22.11	21.12	20.07	23.0	22.0	21.0
		1745.0	22.18	21.17	20.17	23.0	22.0	21.0
		1711.5	22.07	21.13	20.08	23.0	22.0	21.0
	8RB_4	1778.5	22.18	21.18	20.12	23.0	22.0	21.0
		1745.0	22.19	21.24	20.21	23.0	22.0	21.0
		1711.5	22.10	21.16	20.10	23.0	22.0	21.0
	8RB_0	1778.5	22.12	21.16	20.07	23.0	22.0	21.0
		1745.0	22.14	21.22	20.20	23.0	22.0	21.0
		1711.5	22.06	21.16	20.08	23.0	22.0	21.0
	15RB_0	1778.5	22.12	21.13	20.08	23.0	22.0	21.0
		1745.0	22.15	21.19	20.11	23.0	22.0	21.0
		1711.5	22.07	21.04	19.99	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	22.85	22.16	21.06	24.0	23.0	22.0
		1745.0	22.95	22.30	21.14	24.0	23.0	22.0
		1712.5	22.82	22.23	21.10	24.0	23.0	22.0
	1RB_12	1777.5	23.20	22.49	21.28	24.0	23.0	22.0
		1745.0	23.22	22.62	21.44	24.0	23.0	22.0
		1712.5	23.18	22.51	21.51	24.0	23.0	22.0
	1RB_0	1777.5	22.89	22.19	21.07	24.0	23.0	22.0
		1745.0	22.94	22.31	21.19	24.0	23.0	22.0
		1712.5	22.83	22.12	21.10	24.0	23.0	22.0
	12RB_13	1777.5	22.10	21.05	20.05	23.0	22.0	21.0
		1745.0	22.16	21.12	20.13	23.0	22.0	21.0
		1712.5	22.07	21.04	20.06	23.0	22.0	21.0
	12RB_6	1777.5	22.18	21.12	20.16	23.0	22.0	21.0
		1745.0	22.21	21.20	20.21	23.0	22.0	21.0
		1712.5	22.11	21.10	20.09	23.0	22.0	21.0
	12RB_0	1777.5	22.12	21.07	20.13	23.0	22.0	21.0
		1745.0	22.12	21.11	20.14	23.0	22.0	21.0
		1712.5	22.02	21.00	19.99	23.0	22.0	21.0
	25RB_0	1777.5	22.15	21.11	20.07	23.0	22.0	21.0
		1745.0	22.15	21.15	20.12	23.0	22.0	21.0
		1712.5	22.03	21.06	19.97	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	22.98	22.11	21.15	24.0	23.0	22.0
		1745.0	23.01	22.16	21.10	24.0	23.0	22.0
		1715.0	22.99	22.27	21.19	24.0	23.0	22.0
	1RB_24	1775.0	23.09	22.24	21.20	24.0	23.0	22.0
		1745.0	23.13	22.36	21.25	24.0	23.0	22.0
		1715.0	23.08	22.33	21.27	24.0	23.0	22.0
	1RB_0	1775.0	23.03	22.16	21.20	24.0	23.0	22.0
		1745.0	23.08	22.36	21.33	24.0	23.0	22.0
		1715.0	22.97	22.26	21.19	24.0	23.0	22.0
	25RB_25	1775.0	22.17	21.09	20.11	23.0	22.0	21.0
		1745.0	22.22	21.21	20.15	23.0	22.0	21.0
		1715.0	22.08	21.08	20.03	23.0	22.0	21.0
	25RB_12	1775.0	22.16	21.11	20.07	23.0	22.0	21.0
		1745.0	22.20	21.16	20.17	23.0	22.0	21.0
		1715.0	22.05	21.08	20.05	23.0	22.0	21.0
	25RB_0	1775.0	22.24	21.16	20.18	23.0	22.0	21.0
		1745.0	22.21	21.21	20.14	23.0	22.0	21.0
		1715.0	22.02	21.03	19.94	23.0	22.0	21.0
	50RB_0	1775.0	22.21	21.21	20.17	23.0	22.0	21.0
		1745.0	22.22	21.19	20.20	23.0	22.0	21.0
		1715.0	22.05	21.06	20.10	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	22.89	22.14	21.12	24.0	23.0	22.0
		1745.0	22.92	22.17	21.14	24.0	23.0	22.0
		1717.5	22.91	22.19	21.11	24.0	23.0	22.0
	1RB_37	1772.5	23.04	22.30	21.26	24.0	23.0	22.0
		1745.0	23.06	22.34	21.23	24.0	23.0	22.0
		1717.5	23.01	22.28	21.11	24.0	23.0	22.0
	1RB_0	1772.5	22.97	22.27	21.21	24.0	23.0	22.0
		1745.0	23.06	22.36	21.26	24.0	23.0	22.0
		1717.5	22.88	22.19	21.13	24.0	23.0	22.0
	36RB_38	1772.5	22.15	21.08	20.10	23.0	22.0	21.0
		1745.0	22.15	21.12	20.15	23.0	22.0	21.0
		1717.5	22.12	21.07	20.09	23.0	22.0	21.0
	36RB_19	1772.5	22.16	21.15	20.12	23.0	22.0	21.0
		1745.0	22.15	21.12	20.11	23.0	22.0	21.0
		1717.5	22.10	21.08	20.04	23.0	22.0	21.0
	36RB_0	1772.5	22.15	21.13	20.13	23.0	22.0	21.0
		1745.0	22.19	21.14	20.12	23.0	22.0	21.0
		1717.5	22.02	21.00	20.01	23.0	22.0	21.0
	75RB_0	1772.5	22.13	21.12	20.11	23.0	22.0	21.0
		1745.0	22.14	21.15	20.12	23.0	22.0	21.0
		1717.5	22.08	21.06	20.06	23.0	22.0	21.0



Bottom Antenna - Full Power								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	22.68	22.00	20.88	24.0	23.0	22.0
		1745.0	22.69	21.99	20.95	24.0	23.0	22.0
		1720.0	22.70	22.05	20.99	24.0	23.0	22.0
	1RB_50	1770.0	23.04	22.37	21.21	24.0	23.0	22.0
		1745.0	23.10	22.41	21.37	24.0	23.0	22.0
		1720.0	23.04	22.42	21.34	24.0	23.0	22.0
	1RB_0	1770.0	22.74	22.15	20.95	24.0	23.0	22.0
		1745.0	22.85	22.18	21.11	24.0	23.0	22.0
		1720.0	22.70	22.05	20.93	24.0	23.0	22.0
	50RB_50	1770.0	22.01	21.04	20.02	23.0	22.0	21.0
		1745.0	22.15	21.16	20.08	23.0	22.0	21.0
		1720.0	22.01	21.07	20.06	23.0	22.0	21.0
	50RB_25	1770.0	22.12	21.11	20.13	23.0	22.0	21.0
		1745.0	22.17	21.17	20.17	23.0	22.0	21.0
		1720.0	22.05	21.06	20.04	23.0	22.0	21.0
	50RB_0	1770.0	22.15	21.11	20.15	23.0	22.0	21.0
		1745.0	22.14	21.14	20.14	23.0	22.0	21.0
		1720.0	21.97	20.99	19.98	23.0	22.0	21.0
	100RB_0	1770.0	22.09	21.05	20.06	23.0	22.0	21.0
		1745.0	22.10	21.11	20.12	23.0	22.0	21.0
		1720.0	22.00	21.01	20.03	23.0	22.0	21.0



Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	18.84	19.10	19.08	19.5	19.5	19.5
		1745.0	18.91	19.18	19.18	19.5	19.5	19.5
		1710.7	18.75	19.12	18.85	19.5	19.5	19.5
	1RB_3	1779.3	19.02	19.17	19.24	19.5	19.5	19.5
		1745.0	18.97	19.31	19.34	19.5	19.5	19.5
		1710.7	18.92	19.16	18.97	19.5	19.5	19.5
	1RB_0	1779.3	18.83	19.16	19.14	19.5	19.5	19.5
		1745.0	18.90	19.20	19.09	19.5	19.5	19.5
		1710.7	18.76	19.13	18.96	19.5	19.5	19.5
	3RB_3	1779.3	18.92	18.94	19.08	19.5	19.5	19.5
		1745.0	18.95	19.05	19.06	19.5	19.5	19.5
		1710.7	18.84	18.91	18.99	19.5	19.5	19.5
	3RB_1	1779.3	19.03	19.09	19.14	19.5	19.5	19.5
		1745.0	19.04	19.08	19.15	19.5	19.5	19.5
		1710.7	18.91	18.98	19.04	19.5	19.5	19.5
	3RB_0	1779.3	18.93	19.00	19.07	19.5	19.5	19.5
		1745.0	18.97	19.02	19.08	19.5	19.5	19.5
		1710.7	18.88	18.88	19.03	19.5	19.5	19.5
	6RB_0	1779.3	18.94	19.04	18.95	19.5	19.5	19.5
		1745.0	19.00	19.09	18.99	19.5	19.5	19.5
		1710.7	18.80	19.04	18.85	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	18.88	19.16	19.03	19.5	19.5	19.5
		1745.0	18.91	19.29	19.15	19.5	19.5	19.5
		1711.5	18.78	19.19	19.11	19.5	19.5	19.5
	1RB_7	1778.5	18.98	19.45	19.20	19.5	19.5	19.5
		1745.0	19.04	19.43	19.34	19.5	19.5	19.5
		1711.5	18.86	19.33	19.27	19.5	19.5	19.5
	1RB_0	1778.5	18.88	19.28	19.04	19.5	19.5	19.5
		1745.0	18.93	19.30	19.13	19.5	19.5	19.5
		1711.5	18.73	19.12	19.05	19.5	19.5	19.5
	8RB_7	1778.5	18.89	18.95	18.94	19.5	19.5	19.5
		1745.0	18.97	19.05	19.02	19.5	19.5	19.5
		1711.5	18.80	18.90	18.85	19.5	19.5	19.5
	8RB_4	1778.5	18.97	18.97	19.02	19.5	19.5	19.5
		1745.0	18.99	19.09	19.01	19.5	19.5	19.5
		1711.5	18.86	18.95	18.86	19.5	19.5	19.5
	8RB_0	1778.5	18.94	19.00	18.98	19.5	19.5	19.5
		1745.0	18.98	19.08	18.99	19.5	19.5	19.5
		1711.5	18.82	18.93	18.86	19.5	19.5	19.5
	15RB_0	1778.5	18.92	18.97	18.99	19.5	19.5	19.5
		1745.0	18.94	19.03	18.95	19.5	19.5	19.5
		1711.5	18.82	18.84	18.86	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	18.73	18.97	18.92	19.5	19.5	19.5
		1745.0	18.78	19.00	18.88	19.5	19.5	19.5
		1712.5	18.67	19.01	18.83	19.5	19.5	19.5
	1RB_12	1777.5	19.12	19.31	19.26	19.5	19.5	19.5
		1745.0	19.09	19.26	19.25	19.5	19.5	19.5
		1712.5	18.95	19.31	19.17	19.5	19.5	19.5
	1RB_0	1777.5	18.78	18.97	18.92	19.5	19.5	19.5
		1745.0	18.83	19.15	19.02	19.5	19.5	19.5
		1712.5	18.67	18.96	18.89	19.5	19.5	19.5
	12RB_13	1777.5	18.86	18.86	18.88	19.5	19.5	19.5
		1745.0	18.89	18.93	18.99	19.5	19.5	19.5
		1712.5	18.81	18.90	18.92	19.5	19.5	19.5
	12RB_6	1777.5	18.96	18.98	18.98	19.5	19.5	19.5
		1745.0	19.02	18.98	19.01	19.5	19.5	19.5
		1712.5	18.86	18.87	18.94	19.5	19.5	19.5
	12RB_0	1777.5	18.92	18.91	18.90	19.5	19.5	19.5
		1745.0	18.93	18.97	19.00	19.5	19.5	19.5
		1712.5	18.74	18.81	18.83	19.5	19.5	19.5
	25RB_0	1777.5	18.90	18.87	18.87	19.5	19.5	19.5
		1745.0	18.94	18.91	18.92	19.5	19.5	19.5
		1712.5	18.76	18.86	18.81	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	18.84	19.17	19.03	19.5	19.5	19.5
		1745.0	18.87	19.18	19.16	19.5	19.5	19.5
		1715.0	18.82	19.16	18.98	19.5	19.5	19.5
	1RB_24	1775.0	18.99	19.31	19.22	19.5	19.5	19.5
		1745.0	19.11	19.37	19.21	19.5	19.5	19.5
		1715.0	18.94	19.21	19.13	19.5	19.5	19.5
	1RB_0	1775.0	18.92	19.24	19.14	19.5	19.5	19.5
		1745.0	18.98	19.20	19.20	19.5	19.5	19.5
		1715.0	18.74	19.14	18.95	19.5	19.5	19.5
	25RB_25	1775.0	18.91	18.90	18.87	19.5	19.5	19.5
		1745.0	18.95	18.95	18.96	19.5	19.5	19.5
		1715.0	18.86	18.93	18.93	19.5	19.5	19.5
	25RB_12	1775.0	18.93	18.96	18.93	19.5	19.5	19.5
		1745.0	18.98	18.97	18.99	19.5	19.5	19.5
		1715.0	18.84	18.85	18.88	19.5	19.5	19.5
	25RB_0	1775.0	18.98	19.00	18.99	19.5	19.5	19.5
		1745.0	18.97	19.00	18.93	19.5	19.5	19.5
		1715.0	18.75	18.83	18.84	19.5	19.5	19.5
	50RB_0	1775.0	18.95	18.95	18.96	19.5	19.5	19.5
		1745.0	18.99	18.98	18.96	19.5	19.5	19.5
		1715.0	18.82	18.89	18.87	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	18.75	18.99	18.84	19.5	19.5	19.5
		1745.0	18.77	19.13	18.97	19.5	19.5	19.5
		1717.5	18.76	19.14	19.10	19.5	19.5	19.5
	1RB_37	1772.5	18.91	19.32	19.10	19.5	19.5	19.5
		1745.0	18.94	19.31	19.21	19.5	19.5	19.5
		1717.5	18.85	19.21	19.07	19.5	19.5	19.5
	1RB_0	1772.5	18.83	19.27	19.04	19.5	19.5	19.5
		1745.0	18.87	19.30	19.19	19.5	19.5	19.5
		1717.5	18.72	19.09	18.99	19.5	19.5	19.5
	36RB_38	1772.5	18.90	18.89	18.92	19.5	19.5	19.5
		1745.0	18.92	18.91	18.93	19.5	19.5	19.5
		1717.5	18.85	18.89	18.89	19.5	19.5	19.5
	36RB_19	1772.5	18.99	18.98	18.98	19.5	19.5	19.5
		1745.0	18.97	18.97	18.96	19.5	19.5	19.5
		1717.5	18.86	18.91	18.87	19.5	19.5	19.5
	36RB_0	1772.5	18.95	19.00	18.97	19.5	19.5	19.5
		1745.0	19.01	18.98	19.01	19.5	19.5	19.5
		1717.5	18.79	18.81	18.80	19.5	19.5	19.5
	75RB_0	1772.5	18.95	18.93	18.93	19.5	19.5	19.5
		1745.0	18.93	18.99	18.97	19.5	19.5	19.5
		1717.5	18.79	18.89	18.88	19.5	19.5	19.5



Top Antenna - Reduced power level 1								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	18.61	18.97	18.74	19.5	19.5	19.5
		1745.0	18.60	19.05	18.72	19.5	19.5	19.5
		1720.0	18.58	18.93	18.85	19.5	19.5	19.5
	1RB_50	1770.0	18.91	19.32	19.10	19.5	19.5	19.5
		1745.0	19.01	19.40	19.26	19.5	19.5	19.5
		1720.0	18.91	19.24	19.13	19.5	19.5	19.5
	1RB_0	1770.0	18.67	19.05	18.85	19.5	19.5	19.5
		1745.0	18.71	19.18	19.01	19.5	19.5	19.5
		1720.0	18.54	18.86	18.85	19.5	19.5	19.5
	50RB_50	1770.0	18.83	18.87	18.88	19.5	19.5	19.5
		1745.0	18.92	18.97	18.91	19.5	19.5	19.5
		1720.0	18.83	18.91	18.91	19.5	19.5	19.5
	50RB_25	1770.0	18.95	18.97	18.96	19.5	19.5	19.5
		1745.0	18.98	18.99	19.02	19.5	19.5	19.5
		1720.0	18.87	18.88	18.86	19.5	19.5	19.5
	50RB_0	1770.0	18.92	18.97	18.95	19.5	19.5	19.5
		1745.0	18.97	19.02	18.97	19.5	19.5	19.5
		1720.0	18.78	18.81	18.84	19.5	19.5	19.5
	100RB_0	1770.0	18.96	18.94	18.90	19.5	19.5	19.5
		1745.0	18.97	18.97	18.97	19.5	19.5	19.5
		1720.0	18.79	18.83	18.86	19.5	19.5	19.5



Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	17.85	18.09	18.11	18.5	18.5	18.5
		1745.0	17.86	18.15	18.18	18.5	18.5	18.5
		1710.7	17.73	18.07	17.81	18.5	18.5	18.5
	1RB_3	1779.3	18.06	18.16	18.24	18.5	18.5	18.5
		1745.0	17.92	18.33	18.34	18.5	18.5	18.5
		1710.7	17.92	18.11	18.00	18.5	18.5	18.5
	1RB_0	1779.3	17.80	18.20	18.12	18.5	18.5	18.5
		1745.0	17.87	18.18	18.09	18.5	18.5	18.5
		1710.7	17.76	18.13	17.95	18.5	18.5	18.5
	3RB_3	1779.3	17.87	17.98	18.05	18.5	18.5	18.5
		1745.0	17.99	18.07	18.03	18.5	18.5	18.5
		1710.7	17.84	17.92	18.01	18.5	18.5	18.5
	3RB_1	1779.3	17.99	18.11	18.09	18.5	18.5	18.5
		1745.0	18.08	18.12	18.17	18.5	18.5	18.5
		1710.7	17.89	17.99	18.06	18.5	18.5	18.5
	3RB_0	1779.3	17.93	17.98	18.03	18.5	18.5	18.5
		1745.0	17.95	18.03	18.07	18.5	18.5	18.5
		1710.7	17.91	17.85	18.02	18.5	18.5	18.5
	6RB_0	1779.3	17.98	18.08	17.92	18.5	18.5	18.5
		1745.0	18.04	18.08	18.01	18.5	18.5	18.5
		1710.7	17.78	18.04	17.85	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	17.85	18.12	17.99	18.5	18.5	18.5
		1745.0	17.87	18.26	18.18	18.5	18.5	18.5
		1711.5	17.82	18.23	18.12	18.5	18.5	18.5
	1RB_7	1778.5	17.94	18.47	18.19	18.5	18.5	18.5
		1745.0	18.07	18.51	18.32	18.5	18.5	18.5
		1711.5	17.83	18.36	18.31	18.5	18.5	18.5
	1RB_0	1778.5	17.92	18.27	18.00	18.5	18.5	18.5
		1745.0	17.89	18.35	18.09	18.5	18.5	18.5
		1711.5	17.74	18.12	18.03	18.5	18.5	18.5
	8RB_7	1778.5	17.92	17.97	17.92	18.5	18.5	18.5
		1745.0	17.96	18.07	18.02	18.5	18.5	18.5
		1711.5	17.79	17.89	17.82	18.5	18.5	18.5
	8RB_4	1778.5	17.92	17.93	18.01	18.5	18.5	18.5
		1745.0	17.99	18.11	17.96	18.5	18.5	18.5
		1711.5	17.84	17.95	17.89	18.5	18.5	18.5
	8RB_0	1778.5	17.89	18.03	17.97	18.5	18.5	18.5
		1745.0	17.99	18.04	17.95	18.5	18.5	18.5
		1711.5	17.82	17.88	17.83	18.5	18.5	18.5
	15RB_0	1778.5	17.93	17.95	17.99	18.5	18.5	18.5
		1745.0	17.96	18.02	17.98	18.5	18.5	18.5
		1711.5	17.79	17.81	17.90	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	17.78	18.01	17.88	18.5	18.5	18.5
		1745.0	17.77	18.04	17.88	18.5	18.5	18.5
		1712.5	17.68	18.05	17.88	18.5	18.5	18.5
	1RB_12	1777.5	18.12	18.32	18.29	18.5	18.5	18.5
		1745.0	18.06	18.29	18.30	18.5	18.5	18.5
		1712.5	17.96	18.32	18.21	18.5	18.5	18.5
	1RB_0	1777.5	17.82	17.98	17.92	18.5	18.5	18.5
		1745.0	17.86	18.17	17.99	18.5	18.5	18.5
		1712.5	17.68	17.96	17.90	18.5	18.5	18.5
	12RB_13	1777.5	17.87	17.88	17.88	18.5	18.5	18.5
		1745.0	17.94	17.94	18.00	18.5	18.5	18.5
		1712.5	17.82	17.93	17.87	18.5	18.5	18.5
	12RB_6	1777.5	17.95	17.97	18.01	18.5	18.5	18.5
		1745.0	18.06	18.00	17.97	18.5	18.5	18.5
		1712.5	17.87	17.88	17.97	18.5	18.5	18.5
	12RB_0	1777.5	17.89	17.89	17.88	18.5	18.5	18.5
		1745.0	17.94	17.98	18.00	18.5	18.5	18.5
		1712.5	17.73	17.81	17.80	18.5	18.5	18.5
	25RB_0	1777.5	17.91	17.90	17.86	18.5	18.5	18.5
		1745.0	17.90	17.95	17.88	18.5	18.5	18.5
		1712.5	17.80	17.86	17.85	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	17.80	18.13	17.99	18.5	18.5	18.5
		1745.0	17.85	18.18	18.14	18.5	18.5	18.5
		1715.0	17.82	18.17	17.94	18.5	18.5	18.5
	1RB_24	1775.0	18.02	18.34	18.24	18.5	18.5	18.5
		1745.0	18.10	18.39	18.22	18.5	18.5	18.5
		1715.0	17.97	18.24	18.16	18.5	18.5	18.5
	1RB_0	1775.0	17.91	18.22	18.18	18.5	18.5	18.5
		1745.0	18.03	18.22	18.18	18.5	18.5	18.5
		1715.0	17.70	18.13	17.94	18.5	18.5	18.5
	25RB_25	1775.0	17.88	17.95	17.85	18.5	18.5	18.5
		1745.0	17.97	17.99	18.01	18.5	18.5	18.5
		1715.0	17.85	17.94	17.89	18.5	18.5	18.5
	25RB_12	1775.0	17.98	17.92	17.91	18.5	18.5	18.5
		1745.0	17.95	17.93	17.95	18.5	18.5	18.5
		1715.0	17.88	17.89	17.92	18.5	18.5	18.5
	25RB_0	1775.0	18.01	17.97	17.97	18.5	18.5	18.5
		1745.0	18.00	17.98	17.95	18.5	18.5	18.5
		1715.0	17.74	17.79	17.86	18.5	18.5	18.5
	50RB_0	1775.0	17.92	17.97	17.94	18.5	18.5	18.5
		1745.0	18.01	17.96	17.92	18.5	18.5	18.5
		1715.0	17.82	17.85	17.84	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	17.78	17.96	17.84	18.5	18.5	18.5
		1745.0	17.77	18.16	17.97	18.5	18.5	18.5
		1717.5	17.77	18.10	18.13	18.5	18.5	18.5
	1RB_37	1772.5	17.92	18.28	18.06	18.5	18.5	18.5
		1745.0	17.96	18.29	18.24	18.5	18.5	18.5
		1717.5	17.82	18.24	18.11	18.5	18.5	18.5
	1RB_0	1772.5	17.80	18.29	18.01	18.5	18.5	18.5
		1745.0	17.90	18.31	18.22	18.5	18.5	18.5
		1717.5	17.68	18.06	17.98	18.5	18.5	18.5
	36RB_38	1772.5	17.91	17.93	17.96	18.5	18.5	18.5
		1745.0	17.93	17.88	17.93	18.5	18.5	18.5
		1717.5	17.89	17.87	17.89	18.5	18.5	18.5
	36RB_19	1772.5	17.97	17.93	17.98	18.5	18.5	18.5
		1745.0	17.93	18.01	17.92	18.5	18.5	18.5
		1717.5	17.84	17.86	17.91	18.5	18.5	18.5
	36RB_0	1772.5	18.00	17.97	17.97	18.5	18.5	18.5
		1745.0	18.01	18.01	18.04	18.5	18.5	18.5
		1717.5	17.81	17.78	17.85	18.5	18.5	18.5
	75RB_0	1772.5	17.99	17.97	17.91	18.5	18.5	18.5
		1745.0	17.92	17.97	17.96	18.5	18.5	18.5
		1717.5	17.82	17.92	17.84	18.5	18.5	18.5



Top Antenna - Reduced power level 2								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	17.65	17.96	17.74	18.5	18.5	18.5
		1745.0	17.56	18.00	17.71	18.5	18.5	18.5
		1720.0	17.56	17.97	17.84	18.5	18.5	18.5
	1RB_50	1770.0	17.93	18.27	18.09	18.5	18.5	18.5
		1745.0	17.98	18.39	18.29	18.5	18.5	18.5
		1720.0	17.89	18.20	18.12	18.5	18.5	18.5
	1RB_0	1770.0	17.71	18.01	17.82	18.5	18.5	18.5
		1745.0	17.71	18.16	18.02	18.5	18.5	18.5
		1720.0	17.59	17.87	17.83	18.5	18.5	18.5
	50RB_50	1770.0	17.81	17.83	17.90	18.5	18.5	18.5
		1745.0	17.94	17.95	17.94	18.5	18.5	18.5
		1720.0	17.80	17.92	17.92	18.5	18.5	18.5
	50RB_25	1770.0	17.95	17.92	17.91	18.5	18.5	18.5
		1745.0	17.96	17.95	17.99	18.5	18.5	18.5
		1720.0	17.91	17.84	17.90	18.5	18.5	18.5
	50RB_0	1770.0	17.91	17.92	17.94	18.5	18.5	18.5
		1745.0	17.94	17.99	17.96	18.5	18.5	18.5
		1720.0	17.81	17.79	17.85	18.5	18.5	18.5
	100RB_0	1770.0	17.98	17.96	17.93	18.5	18.5	18.5
		1745.0	18.01	17.98	17.93	18.5	18.5	18.5
		1720.0	17.79	17.87	17.82	18.5	18.5	18.5



Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	22.84	22.48	21.46	23.5	23.0	22.0
		1745.0	22.89	22.65	21.52	23.5	23.0	22.0
		1710.7	22.79	22.57	21.43	23.5	23.0	22.0
	1RB_3	1779.3	23.00	22.58	21.52	23.5	23.0	22.0
		1745.0	23.09	22.77	21.66	23.5	23.0	22.0
		1710.7	22.94	22.68	21.62	23.5	23.0	22.0
	1RB_0	1779.3	22.86	22.51	21.41	23.5	23.0	22.0
		1745.0	22.92	22.72	21.58	23.5	23.0	22.0
		1710.7	22.83	22.59	21.53	23.5	23.0	22.0
	3RB_3	1779.3	22.97	22.39	21.46	23.5	23.0	22.0
		1745.0	23.04	22.56	21.64	23.5	23.0	22.0
		1710.7	22.85	22.35	21.58	23.5	23.0	22.0
	3RB_1	1779.3	23.02	22.50	21.63	23.5	23.0	22.0
		1745.0	23.07	22.54	21.69	23.5	23.0	22.0
		1710.7	22.94	22.46	21.56	23.5	23.0	22.0
	3RB_0	1779.3	22.96	22.45	21.54	23.5	23.0	22.0
		1745.0	23.03	22.50	21.67	23.5	23.0	22.0
		1710.7	22.89	22.34	21.53	23.5	23.0	22.0
	6RB_0	1779.3	22.56	21.55	20.45	23.0	22.0	21.0
		1745.0	22.56	21.58	20.50	23.0	22.0	21.0
		1710.7	22.41	21.48	20.37	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	22.84	22.55	21.56	23.5	23.0	22.0
		1745.0	22.95	22.72	21.50	23.5	23.0	22.0
		1711.5	22.83	22.60	21.45	23.5	23.0	22.0
	1RB_7	1778.5	23.10	22.80	21.79	23.5	23.0	22.0
		1745.0	23.10	22.84	21.68	23.5	23.0	22.0
		1711.5	23.02	22.68	21.63	23.5	23.0	22.0
	1RB_0	1778.5	22.87	22.60	21.54	23.5	23.0	22.0
		1745.0	22.98	22.77	21.45	23.5	23.0	22.0
		1711.5	22.84	22.67	21.43	23.5	23.0	22.0
	8RB_7	1778.5	22.47	21.47	20.37	23.0	22.0	21.0
		1745.0	22.48	21.56	20.49	23.0	22.0	21.0
		1711.5	22.37	21.42	20.40	23.0	22.0	21.0
	8RB_4	1778.5	22.45	21.51	20.42	23.0	22.0	21.0
		1745.0	22.54	21.60	20.49	23.0	22.0	21.0
		1711.5	22.43	21.48	20.42	23.0	22.0	21.0
	8RB_0	1778.5	22.45	21.49	20.42	23.0	22.0	21.0
		1745.0	22.50	21.57	20.52	23.0	22.0	21.0
		1711.5	22.36	21.40	20.36	23.0	22.0	21.0
	15RB_0	1778.5	22.48	21.47	20.41	23.0	22.0	21.0
		1745.0	22.53	21.49	20.50	23.0	22.0	21.0
		1711.5	22.36	21.38	20.33	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	22.72	22.43	21.37	23.5	23.0	22.0
		1745.0	22.78	22.50	21.46	23.5	23.0	22.0
		1712.5	22.70	22.45	21.48	23.5	23.0	22.0
	1RB_12	1777.5	23.02	22.71	21.64	23.5	23.0	22.0
		1745.0	23.08	22.83	21.77	23.5	23.0	22.0
		1712.5	23.05	22.79	21.75	23.5	23.0	22.0
	1RB_0	1777.5	22.74	22.46	21.38	23.5	23.0	22.0
		1745.0	22.83	22.58	21.56	23.5	23.0	22.0
		1712.5	22.73	22.40	21.42	23.5	23.0	22.0
	12RB_13	1777.5	22.43	21.39	20.37	23.0	22.0	21.0
		1745.0	22.48	21.48	20.51	23.0	22.0	21.0
		1712.5	22.40	21.39	20.41	23.0	22.0	21.0
	12RB_6	1777.5	22.52	21.48	20.47	23.0	22.0	21.0
		1745.0	22.55	21.50	20.59	23.0	22.0	21.0
		1712.5	22.42	21.41	20.42	23.0	22.0	21.0
	12RB_0	1777.5	22.49	21.45	20.45	23.0	22.0	21.0
		1745.0	22.47	21.43	20.48	23.0	22.0	21.0
		1712.5	22.36	21.30	20.35	23.0	22.0	21.0
	25RB_0	1777.5	22.47	21.41	20.42	23.0	22.0	21.0
		1745.0	22.48	21.47	20.47	23.0	22.0	21.0
		1712.5	22.39	21.42	20.35	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	22.85	22.53	21.49	23.5	23.0	22.0
		1745.0	22.88	22.69	21.47	23.5	23.0	22.0
		1715.0	22.91	22.70	21.57	23.5	23.0	22.0
	1RB_24	1775.0	22.97	22.67	21.65	23.5	23.0	22.0
		1745.0	23.06	22.86	21.65	23.5	23.0	22.0
		1715.0	22.94	22.77	21.62	23.5	23.0	22.0
	1RB_0	1775.0	22.87	22.62	21.45	23.5	23.0	22.0
		1745.0	23.01	22.81	21.64	23.5	23.0	22.0
		1715.0	22.85	22.66	21.55	23.5	23.0	22.0
	25RB_25	1775.0	22.50	21.47	20.45	23.0	22.0	21.0
		1745.0	22.56	21.55	20.53	23.0	22.0	21.0
		1715.0	22.46	21.46	20.39	23.0	22.0	21.0
	25RB_12	1775.0	22.53	21.47	20.45	23.0	22.0	21.0
		1745.0	22.54	21.52	20.50	23.0	22.0	21.0
		1715.0	22.38	21.40	20.37	23.0	22.0	21.0
	25RB_0	1775.0	22.61	21.57	20.50	23.0	22.0	21.0
		1745.0	22.56	21.52	20.54	23.0	22.0	21.0
		1715.0	22.35	21.34	20.33	23.0	22.0	21.0
	50RB_0	1775.0	22.53	21.53	20.50	23.0	22.0	21.0
		1745.0	22.55	21.56	20.55	23.0	22.0	21.0
		1715.0	22.39	21.41	20.40	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	22.78	22.34	21.41	23.5	23.0	22.0
		1745.0	22.84	22.53	21.38	23.5	23.0	22.0
		1717.5	22.79	22.53	21.37	23.5	23.0	22.0
	1RB_37	1772.5	22.92	22.47	21.57	23.5	23.0	22.0
		1745.0	22.96	22.69	21.57	23.5	23.0	22.0
		1717.5	22.85	22.61	21.43	23.5	23.0	22.0
	1RB_0	1772.5	22.83	22.46	21.53	23.5	23.0	22.0
		1745.0	22.92	22.69	21.54	23.5	23.0	22.0
		1717.5	22.79	22.42	21.32	23.5	23.0	22.0
	36RB_38	1772.5	22.51	21.44	20.45	23.0	22.0	21.0
		1745.0	22.53	21.50	20.46	23.0	22.0	21.0
		1717.5	22.42	21.42	20.46	23.0	22.0	21.0
	36RB_19	1772.5	22.55	21.47	20.47	23.0	22.0	21.0
		1745.0	22.56	21.48	20.53	23.0	22.0	21.0
		1717.5	22.44	21.41	20.44	23.0	22.0	21.0
	36RB_0	1772.5	22.54	21.46	20.49	23.0	22.0	21.0
		1745.0	22.56	21.51	20.52	23.0	22.0	21.0
		1717.5	22.30	21.32	20.34	23.0	22.0	21.0
	75RB_0	1772.5	22.53	21.48	20.45	23.0	22.0	21.0
		1745.0	22.53	21.50	20.48	23.0	22.0	21.0
		1717.5	22.39	21.39	20.38	23.0	22.0	21.0



Top Antenna - Reduced power level 3								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	22.54	22.35	21.25	23.5	23.0	22.0
		1745.0	22.62	22.38	21.24	23.5	23.0	22.0
		1720.0	22.61	22.37	21.24	23.5	23.0	22.0
	1RB_50	1770.0	22.94	22.69	21.64	23.5	23.0	22.0
		1745.0	23.04	22.71	21.61	23.5	23.0	22.0
		1720.0	23.00	22.70	21.63	23.5	23.0	22.0
	1RB_0	1770.0	22.69	22.41	21.36	23.5	23.0	22.0
		1745.0	22.75	22.54	21.43	23.5	23.0	22.0
		1720.0	22.63	22.34	21.20	23.5	23.0	22.0
	50RB_50	1770.0	22.40	21.37	20.38	23.0	22.0	21.0
		1745.0	22.54	21.50	20.49	23.0	22.0	21.0
		1720.0	22.39	21.42	20.43	23.0	22.0	21.0
	50RB_25	1770.0	22.50	21.49	20.46	23.0	22.0	21.0
		1745.0	22.57	21.54	20.50	23.0	22.0	21.0
		1720.0	22.41	21.41	20.39	23.0	22.0	21.0
	50RB_0	1770.0	22.49	21.53	20.48	23.0	22.0	21.0
		1745.0	22.52	21.46	20.49	23.0	22.0	21.0
		1720.0	22.32	21.33	20.30	23.0	22.0	21.0
	100RB_0	1770.0	22.47	21.43	20.42	23.0	22.0	21.0
		1745.0	22.51	21.47	20.48	23.0	22.0	21.0
		1720.0	22.35	21.33	20.35	23.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	21.28	21.53	21.49	22.0	22.0	22.0
		1745.0	21.31	21.64	21.46	22.0	22.0	22.0
		1710.7	21.21	21.53	21.29	22.0	22.0	22.0
	1RB_3	1779.3	21.35	21.63	21.63	22.0	22.0	22.0
		1745.0	21.46	21.80	21.61	22.0	22.0	22.0
		1710.7	21.37	21.67	21.38	22.0	22.0	22.0
	1RB_0	1779.3	21.30	21.52	21.52	22.0	22.0	22.0
		1745.0	21.33	21.70	21.48	22.0	22.0	22.0
		1710.7	21.18	21.59	21.29	22.0	22.0	22.0
	3RB_3	1779.3	21.40	21.44	21.52	22.0	22.0	22.0
		1745.0	21.44	21.44	21.56	22.0	22.0	22.0
		1710.7	21.33	21.34	21.43	22.0	22.0	22.0
	3RB_1	1779.3	21.47	21.47	21.53	22.0	22.0	22.0
		1745.0	21.55	21.51	21.54	22.0	22.0	22.0
		1710.7	21.38	21.40	21.43	22.0	22.0	22.0
	3RB_0	1779.3	21.46	21.40	21.51	22.0	22.0	22.0
		1745.0	21.47	21.42	21.60	22.0	22.0	22.0
		1710.7	21.30	21.29	21.41	22.0	22.0	22.0
	6RB_0	1779.3	21.40	21.50	20.35	22.0	22.0	21.0
		1745.0	21.47	21.53	20.45	22.0	22.0	21.0
		1710.7	21.32	21.42	20.31	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	21.29	21.59	21.47	22.0	22.0	22.0
		1745.0	21.40	21.69	21.52	22.0	22.0	22.0
		1711.5	21.27	21.56	21.43	22.0	22.0	22.0
	1RB_7	1778.5	21.56	21.77	21.70	22.0	22.0	22.0
		1745.0	21.63	21.88	21.75	22.0	22.0	22.0
		1711.5	21.44	21.59	21.56	22.0	22.0	22.0
	1RB_0	1778.5	21.32	21.60	21.50	22.0	22.0	22.0
		1745.0	21.39	21.74	21.54	22.0	22.0	22.0
		1711.5	21.26	21.49	21.42	22.0	22.0	22.0
	8RB_7	1778.5	21.39	21.39	20.34	22.0	22.0	21.0
		1745.0	21.44	21.49	20.39	22.0	22.0	21.0
		1711.5	21.28	21.38	20.27	22.0	22.0	21.0
	8RB_4	1778.5	21.42	21.44	20.34	22.0	22.0	21.0
		1745.0	21.47	21.55	20.46	22.0	22.0	21.0
		1711.5	21.28	21.42	20.32	22.0	22.0	21.0
	8RB_0	1778.5	21.39	21.40	20.37	22.0	22.0	21.0
		1745.0	21.41	21.48	20.41	22.0	22.0	21.0
		1711.5	21.26	21.40	20.29	22.0	22.0	21.0
	15RB_0	1778.5	21.42	21.39	20.34	22.0	22.0	21.0
		1745.0	21.40	21.39	20.45	22.0	22.0	21.0
		1711.5	21.30	21.32	20.28	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	21.20	21.48	21.28	22.0	22.0	22.0
		1745.0	21.23	21.52	21.36	22.0	22.0	22.0
		1712.5	21.14	21.48	21.35	22.0	22.0	22.0
	1RB_12	1777.5	21.48	21.87	21.65	22.0	22.0	22.0
		1745.0	21.54	21.94	21.74	22.0	22.0	22.0
		1712.5	21.48	21.75	21.76	22.0	22.0	22.0
	1RB_0	1777.5	21.23	21.44	21.28	22.0	22.0	22.0
		1745.0	21.27	21.56	21.45	22.0	22.0	22.0
		1712.5	21.12	21.47	21.36	22.0	22.0	22.0
	12RB_13	1777.5	21.32	21.32	20.28	22.0	22.0	21.0
		1745.0	21.40	21.38	20.41	22.0	22.0	21.0
		1712.5	21.34	21.29	20.36	22.0	22.0	21.0
	12RB_6	1777.5	21.43	21.42	20.38	22.0	22.0	21.0
		1745.0	21.46	21.44	20.53	22.0	22.0	21.0
		1712.5	21.35	21.30	20.37	22.0	22.0	21.0
	12RB_0	1777.5	21.40	21.39	20.33	22.0	22.0	21.0
		1745.0	21.40	21.39	20.41	22.0	22.0	21.0
		1712.5	21.26	21.24	20.29	22.0	22.0	21.0
	25RB_0	1777.5	21.43	21.37	20.34	22.0	22.0	21.0
		1745.0	21.42	21.41	20.40	22.0	22.0	21.0
		1712.5	21.30	21.26	20.25	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	21.28	21.45	21.46	22.0	22.0	22.0
		1745.0	21.31	21.54	21.51	22.0	22.0	22.0
		1715.0	21.25	21.59	21.39	22.0	22.0	22.0
	1RB_24	1775.0	21.43	21.57	21.59	22.0	22.0	22.0
		1745.0	21.43	21.72	21.69	22.0	22.0	22.0
		1715.0	21.30	21.65	21.55	22.0	22.0	22.0
	1RB_0	1775.0	21.37	21.52	21.51	22.0	22.0	22.0
		1745.0	21.39	21.62	21.50	22.0	22.0	22.0
		1715.0	21.24	21.55	21.36	22.0	22.0	22.0
	25RB_25	1775.0	21.42	21.40	20.37	22.0	22.0	21.0
		1745.0	21.46	21.46	20.47	22.0	22.0	21.0
		1715.0	21.37	21.33	20.35	22.0	22.0	21.0
	25RB_12	1775.0	21.44	21.39	20.37	22.0	22.0	21.0
		1745.0	21.48	21.48	20.43	22.0	22.0	21.0
		1715.0	21.33	21.35	20.28	22.0	22.0	21.0
	25RB_0	1775.0	21.51	21.48	20.46	22.0	22.0	21.0
		1745.0	21.46	21.48	20.45	22.0	22.0	21.0
		1715.0	21.28	21.29	20.23	22.0	22.0	21.0
	50RB_0	1775.0	21.49	21.45	20.44	22.0	22.0	21.0
		1745.0	21.50	21.49	20.46	22.0	22.0	21.0
		1715.0	21.32	21.37	20.32	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	21.16	21.42	21.36	22.0	22.0	22.0
		1745.0	21.23	21.54	21.50	22.0	22.0	22.0
		1717.5	21.17	21.54	21.42	22.0	22.0	22.0
	1RB_37	1772.5	21.36	21.58	21.54	22.0	22.0	22.0
		1745.0	21.40	21.71	21.64	22.0	22.0	22.0
		1717.5	21.23	21.61	21.51	22.0	22.0	22.0
	1RB_0	1772.5	21.29	21.61	21.52	22.0	22.0	22.0
		1745.0	21.36	21.75	21.61	22.0	22.0	22.0
		1717.5	21.20	21.48	21.38	22.0	22.0	22.0
	36RB_38	1772.5	21.40	21.42	20.36	22.0	22.0	21.0
		1745.0	21.47	21.41	20.43	22.0	22.0	21.0
		1717.5	21.38	21.37	20.39	22.0	22.0	21.0
	36RB_19	1772.5	21.44	21.41	20.40	22.0	22.0	21.0
		1745.0	21.46	21.45	20.43	22.0	22.0	21.0
		1717.5	21.36	21.35	20.32	22.0	22.0	21.0
	36RB_0	1772.5	21.46	21.45	20.40	22.0	22.0	21.0
		1745.0	21.48	21.46	20.45	22.0	22.0	21.0
		1717.5	21.28	21.26	20.24	22.0	22.0	21.0
	75RB_0	1772.5	21.46	21.41	20.38	22.0	22.0	21.0
		1745.0	21.45	21.46	20.43	22.0	22.0	21.0
		1717.5	21.33	21.34	20.33	22.0	22.0	21.0



Top Antenna - Reduced power level 5								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	21.00	21.26	21.21	22.0	22.0	22.0
		1745.0	21.01	21.27	21.27	22.0	22.0	22.0
		1720.0	21.01	21.29	21.29	22.0	22.0	22.0
	1RB_50	1770.0	21.37	21.73	21.57	22.0	22.0	22.0
		1745.0	21.44	21.72	21.69	22.0	22.0	22.0
		1720.0	21.33	21.66	21.61	22.0	22.0	22.0
	1RB_0	1770.0	21.07	21.41	21.30	22.0	22.0	22.0
		1745.0	21.11	21.43	21.39	22.0	22.0	22.0
		1720.0	20.96	21.34	21.16	22.0	22.0	22.0
	50RB_50	1770.0	21.39	21.33	20.31	22.0	22.0	21.0
		1745.0	21.46	21.43	20.43	22.0	22.0	21.0
		1720.0	21.34	21.33	20.34	22.0	22.0	21.0
	50RB_25	1770.0	21.45	21.39	20.39	22.0	22.0	21.0
		1745.0	21.47	21.44	20.47	22.0	22.0	21.0
		1720.0	21.30	21.36	20.33	22.0	22.0	21.0
	50RB_0	1770.0	21.46	21.47	20.40	22.0	22.0	21.0
		1745.0	21.45	21.45	20.43	22.0	22.0	21.0
		1720.0	21.27	21.25	20.20	22.0	22.0	21.0
	100RB_0	1770.0	21.37	21.37	20.35	22.0	22.0	21.0
		1745.0	21.41	21.42	20.41	22.0	22.0	21.0
		1720.0	21.28	21.25	20.27	22.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	22.00	22.13	21.10	23.0	23.0	22.0
		1745.0	22.06	22.26	21.20	23.0	23.0	22.0
		1710.7	21.90	22.24	21.11	23.0	23.0	22.0
	1RB_3	1779.3	22.15	22.24	21.24	23.0	23.0	22.0
		1745.0	22.15	22.44	21.31	23.0	23.0	22.0
		1710.7	22.05	22.35	21.31	23.0	23.0	22.0
	1RB_0	1779.3	21.98	22.13	21.14	23.0	23.0	22.0
		1745.0	22.06	22.29	21.24	23.0	23.0	22.0
		1710.7	21.91	22.24	21.18	23.0	23.0	22.0
	3RB_3	1779.3	22.11	21.99	21.23	23.0	23.0	22.0
		1745.0	22.16	22.11	21.24	23.0	23.0	22.0
		1710.7	22.04	22.02	21.04	23.0	23.0	22.0
	3RB_1	1779.3	22.13	22.08	21.25	23.0	23.0	22.0
		1745.0	22.21	22.18	21.24	23.0	23.0	22.0
		1710.7	22.12	22.08	21.18	23.0	23.0	22.0
	3RB_0	1779.3	22.10	22.01	21.20	23.0	23.0	22.0
		1745.0	22.17	22.09	21.25	23.0	23.0	22.0
		1710.7	22.04	22.03	21.06	23.0	23.0	22.0
	6RB_0	1779.3	22.15	21.17	20.05	23.0	22.0	21.0
		1745.0	22.16	21.26	20.09	23.0	22.0	21.0
		1710.7	22.02	21.12	20.04	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	22.01	22.23	21.14	23.0	23.0	22.0
		1745.0	22.00	22.25	21.27	23.0	23.0	22.0
		1711.5	21.97	22.24	21.12	23.0	23.0	22.0
	1RB_7	1778.5	22.21	22.36	21.37	23.0	23.0	22.0
		1745.0	22.24	22.43	21.45	23.0	23.0	22.0
		1711.5	22.13	22.43	21.35	23.0	23.0	22.0
	1RB_0	1778.5	22.03	22.23	21.14	23.0	23.0	22.0
		1745.0	22.04	22.30	21.25	23.0	23.0	22.0
		1711.5	22.00	22.23	21.10	23.0	23.0	22.0
	8RB_7	1778.5	22.05	21.06	20.04	23.0	22.0	21.0
		1745.0	22.12	21.12	20.09	23.0	22.0	21.0
		1711.5	22.01	21.06	19.99	23.0	22.0	21.0
	8RB_4	1778.5	22.09	21.11	20.04	23.0	22.0	21.0
		1745.0	22.15	21.18	20.09	23.0	22.0	21.0
		1711.5	22.05	21.11	20.02	23.0	22.0	21.0
	8RB_0	1778.5	22.10	21.12	20.05	23.0	22.0	21.0
		1745.0	22.11	21.16	20.12	23.0	22.0	21.0
		1711.5	22.01	21.08	19.94	23.0	22.0	21.0
	15RB_0	1778.5	22.10	21.08	20.06	23.0	22.0	21.0
		1745.0	22.12	21.16	20.11	23.0	22.0	21.0
		1711.5	21.97	21.01	19.98	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	21.88	21.92	20.93	23.0	23.0	22.0
		1745.0	21.88	22.14	21.07	23.0	23.0	22.0
		1712.5	21.83	22.06	21.09	23.0	23.0	22.0
	1RB_12	1777.5	22.18	22.35	21.23	23.0	23.0	22.0
		1745.0	22.27	22.46	21.34	23.0	23.0	22.0
		1712.5	22.32	22.37	21.43	23.0	23.0	22.0
	1RB_0	1777.5	21.92	22.06	20.95	23.0	23.0	22.0
		1745.0	21.99	22.19	21.16	23.0	23.0	22.0
		1712.5	21.84	22.05	21.11	23.0	23.0	22.0
	12RB_13	1777.5	22.01	21.00	20.00	23.0	22.0	21.0
		1745.0	22.13	21.10	20.09	23.0	22.0	21.0
		1712.5	22.04	21.03	20.04	23.0	22.0	21.0
	12RB_6	1777.5	22.16	21.12	20.03	23.0	22.0	21.0
		1745.0	22.19	21.14	20.17	23.0	22.0	21.0
		1712.5	22.07	21.05	20.04	23.0	22.0	21.0
	12RB_0	1777.5	22.09	21.05	20.06	23.0	22.0	21.0
		1745.0	22.12	21.08	20.08	23.0	22.0	21.0
		1712.5	21.97	20.97	20.01	23.0	22.0	21.0
	25RB_0	1777.5	22.10	21.10	20.02	23.0	22.0	21.0
		1745.0	22.13	21.11	20.09	23.0	22.0	21.0
		1712.5	22.00	20.99	19.98	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	21.99	22.11	21.13	23.0	23.0	22.0
		1745.0	22.01	22.26	21.13	23.0	23.0	22.0
		1715.0	22.00	22.30	21.07	23.0	23.0	22.0
	1RB_24	1775.0	22.08	22.28	21.27	23.0	23.0	22.0
		1745.0	22.21	22.35	21.32	23.0	23.0	22.0
		1715.0	22.06	22.37	21.18	23.0	23.0	22.0
	1RB_0	1775.0	22.04	22.21	21.17	23.0	23.0	22.0
		1745.0	22.13	22.34	21.28	23.0	23.0	22.0
		1715.0	21.98	22.29	21.11	23.0	23.0	22.0
	25RB_25	1775.0	22.12	21.07	20.06	23.0	22.0	21.0
		1745.0	22.16	21.14	20.12	23.0	22.0	21.0
		1715.0	22.06	21.04	20.04	23.0	22.0	21.0
	25RB_12	1775.0	22.14	21.07	20.08	23.0	22.0	21.0
		1745.0	22.17	21.07	20.14	23.0	22.0	21.0
		1715.0	22.04	21.05	20.02	23.0	22.0	21.0
	25RB_0	1775.0	22.20	21.15	20.16	23.0	22.0	21.0
		1745.0	22.18	21.08	20.14	23.0	22.0	21.0
		1715.0	22.00	20.97	19.98	23.0	22.0	21.0
	50RB_0	1775.0	22.14	21.12	20.09	23.0	22.0	21.0
		1745.0	22.17	21.15	20.11	23.0	22.0	21.0
		1715.0	22.03	21.04	20.04	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	21.90	22.11	21.03	23.0	23.0	22.0
		1745.0	21.88	22.20	21.11	23.0	23.0	22.0
		1717.5	21.95	22.24	21.10	23.0	23.0	22.0
	1RB_37	1772.5	22.04	22.25	21.17	23.0	23.0	22.0
		1745.0	22.07	22.37	21.29	23.0	23.0	22.0
		1717.5	21.99	22.29	21.19	23.0	23.0	22.0
	1RB_0	1772.5	21.98	22.24	21.17	23.0	23.0	22.0
		1745.0	22.05	22.40	21.31	23.0	23.0	22.0
		1717.5	21.89	22.13	21.09	23.0	23.0	22.0
	36RB_38	1772.5	22.14	21.06	20.03	23.0	22.0	21.0
		1745.0	22.17	21.10	20.08	23.0	22.0	21.0
		1717.5	22.09	21.04	20.09	23.0	22.0	21.0
	36RB_19	1772.5	22.16	21.08	20.07	23.0	22.0	21.0
		1745.0	22.17	21.12	20.08	23.0	22.0	21.0
		1717.5	22.06	21.02	20.02	23.0	22.0	21.0
	36RB_0	1772.5	22.15	21.13	20.08	23.0	22.0	21.0
		1745.0	22.14	21.14	20.16	23.0	22.0	21.0
		1717.5	21.98	20.97	19.97	23.0	22.0	21.0
	75RB_0	1772.5	22.15	21.10	20.04	23.0	22.0	21.0
		1745.0	22.13	21.17	20.11	23.0	22.0	21.0
		1717.5	22.02	21.07	19.98	23.0	22.0	21.0



Bottom Antenna - Reduced power level 4								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	21.74	21.83	20.76	23.0	23.0	22.0
		1745.0	21.73	21.93	20.89	23.0	23.0	22.0
		1720.0	21.76	22.00	20.97	23.0	23.0	22.0
	1RB_50	1770.0	22.07	22.26	21.17	23.0	23.0	22.0
		1745.0	22.15	22.35	21.34	23.0	23.0	22.0
		1720.0	22.05	22.25	21.34	23.0	23.0	22.0
	1RB_0	1770.0	21.80	21.96	20.95	23.0	23.0	22.0
		1745.0	21.91	22.17	21.10	23.0	23.0	22.0
		1720.0	21.70	21.94	20.98	23.0	23.0	22.0
	50RB_50	1770.0	22.02	21.01	20.03	23.0	22.0	21.0
		1745.0	22.11	21.12	20.11	23.0	22.0	21.0
		1720.0	22.01	20.99	20.01	23.0	22.0	21.0
	50RB_25	1770.0	22.15	21.11	20.10	23.0	22.0	21.0
		1745.0	22.19	21.09	20.11	23.0	22.0	21.0
		1720.0	22.04	21.04	20.05	23.0	22.0	21.0
	50RB_0	1770.0	22.16	21.18	20.11	23.0	22.0	21.0
		1745.0	22.15	21.07	20.14	23.0	22.0	21.0
		1720.0	22.01	21.03	19.94	23.0	22.0	21.0
	100RB_0	1770.0	22.09	21.07	20.06	23.0	22.0	21.0
		1745.0	22.10	21.11	20.12	23.0	22.0	21.0
		1720.0	22.00	20.98	19.99	23.0	22.0	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4 MHz	1RB_5	1779.3	20.53	20.79	20.57	21.5	21.5	21.5
		1745.0	20.59	20.91	20.77	21.5	21.5	21.5
		1710.7	20.47	20.83	20.70	21.5	21.5	21.5
	1RB_3	1779.3	20.71	20.85	20.72	21.5	21.5	21.5
		1745.0	20.73	21.05	20.91	21.5	21.5	21.5
		1710.7	20.60	20.90	20.83	21.5	21.5	21.5
	1RB_0	1779.3	20.58	20.81	20.59	21.5	21.5	21.5
		1745.0	20.57	20.91	20.79	21.5	21.5	21.5
		1710.7	20.47	20.76	20.72	21.5	21.5	21.5
	3RB_3	1779.3	20.67	20.55	20.64	21.5	21.5	21.5
		1745.0	20.71	20.63	20.81	21.5	21.5	21.5
		1710.7	20.58	20.58	20.69	21.5	21.5	21.5
	3RB_1	1779.3	20.72	20.59	20.80	21.5	21.5	21.5
		1745.0	20.74	20.70	20.91	21.5	21.5	21.5
		1710.7	20.65	20.66	20.75	21.5	21.5	21.5
	3RB_0	1779.3	20.69	20.55	20.70	21.5	21.5	21.5
		1745.0	20.72	20.63	20.83	21.5	21.5	21.5
		1710.7	20.56	20.60	20.70	21.5	21.5	21.5
	6RB_0	1779.3	20.72	20.74	20.16	21.5	21.5	21.0
		1745.0	20.72	20.75	20.17	21.5	21.5	21.0
		1710.7	20.58	20.64	20.05	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
3 MHz	1RB_14	1778.5	20.58	20.74	20.61	21.5	21.5	21.5
		1745.0	20.60	20.85	20.75	21.5	21.5	21.5
		1711.5	20.53	20.77	20.68	21.5	21.5	21.5
	1RB_7	1778.5	20.74	20.95	20.81	21.5	21.5	21.5
		1745.0	20.81	21.03	20.89	21.5	21.5	21.5
		1711.5	20.62	20.88	20.78	21.5	21.5	21.5
	1RB_0	1778.5	20.57	20.80	20.61	21.5	21.5	21.5
		1745.0	20.62	20.78	20.81	21.5	21.5	21.5
		1711.5	20.52	20.72	20.68	21.5	21.5	21.5
	8RB_7	1778.5	20.61	20.62	20.12	21.5	21.5	21.0
		1745.0	20.67	20.67	20.19	21.5	21.5	21.0
		1711.5	20.56	20.61	20.07	21.5	21.5	21.0
	8RB_4	1778.5	20.68	20.63	20.20	21.5	21.5	21.0
		1745.0	20.69	20.74	20.24	21.5	21.5	21.0
		1711.5	20.59	20.65	20.12	21.5	21.5	21.0
	8RB_0	1778.5	20.63	20.67	20.14	21.5	21.5	21.0
		1745.0	20.69	20.72	20.24	21.5	21.5	21.0
		1711.5	20.55	20.61	20.11	21.5	21.5	21.0
	15RB_0	1778.5	20.63	20.61	20.09	21.5	21.5	21.0
		1745.0	20.66	20.69	20.11	21.5	21.5	21.0
		1711.5	20.52	20.61	20.05	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5 MHz	1RB_24	1777.5	20.41	20.57	20.53	21.5	21.5	21.5
		1745.0	20.48	20.70	20.64	21.5	21.5	21.5
		1712.5	20.37	20.73	20.52	21.5	21.5	21.5
	1RB_12	1777.5	20.78	21.00	20.86	21.5	21.5	21.5
		1745.0	20.82	21.03	20.86	21.5	21.5	21.5
		1712.5	20.81	21.09	20.78	21.5	21.5	21.5
	1RB_0	1777.5	20.49	20.66	20.61	21.5	21.5	21.5
		1745.0	20.53	20.75	20.59	21.5	21.5	21.5
		1712.5	20.44	20.76	20.53	21.5	21.5	21.5
	12RB_13	1777.5	20.60	20.52	20.06	21.5	21.5	21.0
		1745.0	20.66	20.66	20.18	21.5	21.5	21.0
		1712.5	20.59	20.58	20.10	21.5	21.5	21.0
	12RB_6	1777.5	20.71	20.63	20.13	21.5	21.5	21.0
		1745.0	20.70	20.70	20.21	21.5	21.5	21.0
		1712.5	20.62	20.61	20.11	21.5	21.5	21.0
	12RB_0	1777.5	20.67	20.59	20.08	21.5	21.5	21.0
		1745.0	20.66	20.64	20.11	21.5	21.5	21.0
		1712.5	20.55	20.53	20.05	21.5	21.5	21.0
	25RB_0	1777.5	20.68	20.57	20.12	21.5	21.5	21.0
		1745.0	20.71	20.66	20.18	21.5	21.5	21.0
		1712.5	20.58	20.53	20.05	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10 MHz	1RB_49	1775.0	20.54	20.83	20.65	21.5	21.5	21.5
		1745.0	20.58	20.89	20.76	21.5	21.5	21.5
		1715.0	20.54	20.86	20.67	21.5	21.5	21.5
	1RB_24	1775.0	20.73	20.92	20.78	21.5	21.5	21.5
		1745.0	20.76	21.06	20.94	21.5	21.5	21.5
		1715.0	20.61	20.92	20.79	21.5	21.5	21.5
	1RB_0	1775.0	20.61	20.86	20.68	21.5	21.5	21.5
		1745.0	20.66	20.99	20.83	21.5	21.5	21.5
		1715.0	20.51	20.81	20.56	21.5	21.5	21.5
	25RB_25	1775.0	20.71	20.65	20.17	21.5	21.5	21.0
		1745.0	20.74	20.74	20.21	21.5	21.5	21.0
		1715.0	20.62	20.66	20.14	21.5	21.5	21.0
	25RB_12	1775.0	20.69	20.67	20.17	21.5	21.5	21.0
		1745.0	20.74	20.69	20.18	21.5	21.5	21.0
		1715.0	20.59	20.63	20.09	21.5	21.5	21.0
	25RB_0	1775.0	20.80	20.75	20.21	21.5	21.5	21.0
		1745.0	20.70	20.75	20.20	21.5	21.5	21.0
		1715.0	20.58	20.55	20.08	21.5	21.5	21.0
	50RB_0	1775.0	20.74	20.68	20.17	21.5	21.5	21.0
		1745.0	20.73	20.71	20.18	21.5	21.5	21.0
		1715.0	20.59	20.65	20.08	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15 MHz	1RB_74	1772.5	20.45	20.61	20.47	21.5	21.5	21.5
		1745.0	20.44	20.70	20.64	21.5	21.5	21.5
		1717.5	20.44	20.69	20.74	21.5	21.5	21.5
	1RB_37	1772.5	20.59	20.80	20.64	21.5	21.5	21.5
		1745.0	20.67	20.84	20.80	21.5	21.5	21.5
		1717.5	20.57	20.78	20.83	21.5	21.5	21.5
	1RB_0	1772.5	20.56	20.75	20.60	21.5	21.5	21.5
		1745.0	20.64	20.88	20.84	21.5	21.5	21.5
		1717.5	20.41	20.66	20.71	21.5	21.5	21.5
	36RB_38	1772.5	20.71	20.59	20.12	21.5	21.5	21.0
		1745.0	20.70	20.64	20.19	21.5	21.5	21.0
		1717.5	20.63	20.59	20.11	21.5	21.5	21.0
	36RB_19	1772.5	20.69	20.63	20.16	21.5	21.5	21.0
		1745.0	20.72	20.68	20.22	21.5	21.5	21.0
		1717.5	20.63	20.64	20.11	21.5	21.5	21.0
	36RB_0	1772.5	20.72	20.66	20.13	21.5	21.5	21.0
		1745.0	20.71	20.67	20.20	21.5	21.5	21.0
		1717.5	20.55	20.52	20.04	21.5	21.5	21.0
	75RB_0	1772.5	20.71	20.66	20.12	21.5	21.5	21.0
		1745.0	20.73	20.65	20.15	21.5	21.5	21.0
		1717.5	20.58	20.58	20.03	21.5	21.5	21.0



Bottom Antenna - Reduced power level 6								
LTE Band 66			Actual output Power (dBm)			Tune up		
Band -width	RB No. / RB offset	Frequency (MHz)	Modulation			Modulation		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20 MHz	1RB_99	1770.0	20.33	20.53	20.41	21.5	21.5	21.5
		1745.0	20.30	20.51	20.43	21.5	21.5	21.5
		1720.0	20.33	20.69	20.44	21.5	21.5	21.5
	1RB_50	1770.0	20.71	20.94	20.69	21.5	21.5	21.5
		1745.0	20.78	20.96	20.71	21.5	21.5	21.5
		1720.0	20.62	20.96	20.75	21.5	21.5	21.5
	1RB_0	1770.0	20.38	20.62	20.46	21.5	21.5	21.5
		1745.0	20.45	20.71	20.53	21.5	21.5	21.5
		1720.0	20.30	20.69	20.46	21.5	21.5	21.5
	50RB_50	1770.0	20.60	20.57	20.05	21.5	21.5	21.0
		1745.0	20.65	20.66	20.18	21.5	21.5	21.0
		1720.0	20.63	20.64	20.07	21.5	21.5	21.0
	50RB_25	1770.0	20.66	20.63	20.15	21.5	21.5	21.0
		1745.0	20.67	20.71	20.18	21.5	21.5	21.0
		1720.0	20.59	20.64	20.12	21.5	21.5	21.0
	50RB_0	1770.0	20.61	20.67	20.17	21.5	21.5	21.0
		1745.0	20.60	20.69	20.18	21.5	21.5	21.0
		1720.0	20.57	20.56	20.02	21.5	21.5	21.0
	100RB_0	1770.0	20.62	20.63	20.09	21.5	21.5	21.0
		1745.0	20.66	20.66	20.17	21.5	21.5	21.0
		1720.0	20.55	20.56	20.04	21.5	21.5	21.0

10.4. WLAN and Bluetooth Measurement result

Table 10.13: The conducted Power measurement results for Bluetooth

Bluetooth Mode	Tune up	Averaged Power (dBm)		
		Ch.0 (2402MHz)	Ch.39 (2441MHz)	Ch.78 (2480MHz)
GFSK	10.0	7.24	7.17	8.05
EDR2M-4_DQPSK	7.0	6.30	6.21	6.71
EDR3M-8DPSK	7.0	6.36	6.28	6.87
/	/	Ch.0 (2402MHz)	Ch.19 (2440MHz)	Ch.39 (2480MHz)
BLE(1M)	8.0	6.06	6.79	6.39
BLE(2M)	8.0	6.09	6.83	6.42

Table 10.14: The conducted Power measurement results for WLAN 2.4G

Full Power			
WLAN 2.4GHz	Duty Cycle: 100%		
Mode	Tune up	Channel	Averaged Power (dBm)
802.11b	12.0	Ch.1 (2412 MHz)	10.71
	20.0	Ch.2 (2417Mhz)	18.59
	20.0	Ch.6 (2437Mhz)	18.80
	20.0	Ch.9 (2452MHz)	18.57
	16.5	Ch.10 (2457MHz)	15.26
	12.5	Ch.11 (2462MHz)	11.24
802.11g	12.0	Ch.1 (2412 MHz)	10.39
	19.0	Ch.2 (2417Mhz)	17.07
	19.0	Ch.6 (2437Mhz)	17.58
	19.0	Ch.9 (2452MHz)	17.29
	16.5	Ch.10 (2457MHz)	14.95
	12.5	Ch.11 (2462MHz)	11.09
802.11n(20MHz)	12.0	Ch.1 (2412 MHz)	10.45
	19.0	Ch.2 (2417Mhz)	17.11
	19.0	Ch.6 (2437Mhz)	17.65
	19.0	Ch.9 (2452MHz)	17.32
	16.5	Ch.10 (2457MHz)	15.06
	12.5	Ch.11 (2462MHz)	11.10



Reduced power level 7			
WLAN 2.4GHz	Duty Cycle: 100%		
Mode	Tune up	Channel	Averaged Power (dBm)
802.11b	12.0	Ch.1 (2412 MHz)	10.71
	17.5	Ch.2 (2417Mhz)	16.07
	17.5	Ch.6 (2437Mhz)	16.29
	17.5	Ch.9 (2452MHz)	15.98
	16.5	Ch.10 (2457MHz)	15.26
	12.5	Ch.11 (2462MHz)	11.24
802.11g	12.0	Ch.1 (2412 MHz)	10.39
	17.5	Ch.2 (2417Mhz)	15.86
	17.5	Ch.6 (2437Mhz)	16.07
	17.5	Ch.9 (2452MHz)	15.74
	16.5	Ch.10 (2457MHz)	14.95
	12.5	Ch.11 (2462MHz)	11.09
802.11n(20MHz)	12.0	Ch.1 (2412 MHz)	10.45
	17.5	Ch.2 (2417Mhz)	15.93
	17.5	Ch.6 (2437Mhz)	16.12
	17.5	Ch.9 (2452MHz)	15.81
	16.5	Ch.10 (2457MHz)	15.06
	12.5	Ch.11 (2462MHz)	11.10



Reduced power level 8			
WLAN 2.4GHz	Duty Cycle: 100%		
Mode	Tune up	Channel	Averaged Power (dBm)
802.11b	12.0	Ch.1 (2412 MHz)	10.71
	15.5	Ch.2 (2417Mhz)	14.14
	15.5	Ch.6 (2437Mhz)	14.36
	15.5	Ch.9 (2452MHz)	14.02
	15.5	Ch.10 (2457MHz)	14.28
	12.5	Ch.11 (2462MHz)	11.24
802.11g	12.0	Ch.1 (2412 MHz)	10.39
	15.5	Ch.2 (2417Mhz)	13.88
	15.5	Ch.6 (2437Mhz)	14.15
	15.5	Ch.9 (2452MHz)	13.97
	15.5	Ch.10 (2457MHz)	14.04
	12.5	Ch.11 (2462MHz)	11.09
802.11n(20MHz)	12.0	Ch.1 (2412 MHz)	10.45
	15.5	Ch.2 (2417Mhz)	13.92
	15.5	Ch.6 (2437Mhz)	14.20
	15.5	Ch.9 (2452MHz)	14.03
	15.5	Ch.10 (2457MHz)	14.12
	12.5	Ch.11 (2462MHz)	11.10



Full Power						
Averaged Power (dBm) Duty Cycle: 100%						
Mode	802.11a		802.11n-20MHz		802.11ac-20MHz	
Channel	Tune up	6Mbps	Tune up	MCS0	Tune up	MCS0
<U-NII-1>						
36(5180MHz)	16.0	14.29	16.0	14.26	16.0	14.21
40(5200MHz)	16.0	14.40	16.0	14.31	16.0	14.24
44(5220MHz)	16.0	14.37	16.0	14.22	16.0	14.26
48(5240MHz)	16.0	14.41	16.0	14.26	16.0	14.32
<U-NII-2A>						
52(5260MHz)	16.0	14.25	16.0	14.17	16.0	14.22
56(5280MHz)	16.0	14.19	16.0	14.18	16.0	14.11
60(5300MHz)	16.0	14.08	16.0	14.06	16.0	14.04
64(5320MHz)	15.0	13.15	15.0	13.10	15.0	13.09
<U-NII-2C>						
100(5500MHz)	15.0	13.07	15.0	13.06	14.5	12.53
116(5580MHz)	16.0	14.17	16.0	14.07	16.0	14.10
124(5620MHz)	16.0	14.10	16.0	14.04	16.0	14.06
132(5660MHz)	16.0	14.06	16.0	14.01	16.0	14.05
140(5700MHz)	14.5	12.51	13.0	11.19	16.0	14.07
<U-NII-3>						
149(5745MHz)	16.0	14.12	16.0	14.12	16.0	14.09
157(5785MHz)	16.0	14.07	16.0	14.07	16.0	14.04
165(5825MHz)	16.0	14.04	16.0	14.04	16.0	14.02



Full Power							
Averaged Power (dBm) Duty Cycle: 100%							
Mode	802.11n-40MHz		802.11ac-40MHz		Mode	802.11ac-80MHz	
Channel	Tune up	MCS0	Tune up	MCS0	Channel	Tune up	MCS0
<U-NII-1>							
38(5190MHz)	13.5	11.55	13.5	11.51	42(5210MHz)	14.5	12.55
46(5230MHz)	16.0	14.22	16.0	14.13	/	/	/
<U-NII-2A>							
54(5270MHz)	16.0	14.15	16.0	14.07	58(5290MHz)	14.5	12.51
62(5310MHz)	13.0	11.04	13.0	11.06	/	/	/
<U-NII-2C>							
102(5510MHz)	14.0	12.04	14.0	11.93	106(5530MHz)	13.5	11.52
110(5550MHz)	16.0	14.08	16.0	14.06	122(5610MHz)	16.0	14.01
126(5630MHz)	16.0	14.03	16.0	14.02	/	/	/
134(5670MHz)	16.0	14.04	16.0	14.03	/	/	/
<U-NII-3>							
151(5755MHz)	16.0	14.05	16.0	14.03	155(5775MHz)	16.0	14.01
159(5795MHz)	16.0	14.03	16.0	14.01	/	/	/



Reduced power level 7								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	13.0	13.0	13.0	/	13.0	13.0	/	13.0
36(5180MHz)	11.30	11.27	11.21	38(5190MHz)	11.08	11.09	42(5210MHz)	11.24
40(5200MHz)	11.35	11.30	11.25	46(5230MHz)	11.12	11.16	/	/
44(5220MHz)	11.31	11.25	11.28	/	/	/	/	/
48(5240MHz)	11.38	11.37	11.30	/	/	/	/	/
<U-NII-2A>								
Tune up	13.0	13.0	13.0	/	13.0	13.0	/	13.0
52(5260MHz)	11.25	11.20	11.26	54(5270MHz)	11.04	11.12	58(5290MHz)	11.29
56(5280MHz)	11.20	11.14	11.17	62(5310MHz)	11.04	11.09	/	/
60(5300MHz)	11.11	11.09	11.08	/	/	/	/	/
64(5320MHz)	11.08	11.12	11.10	/	/	/	/	/
<U-NII-2C>								
Tune up	13.0	13.0	13.0	/	13.0	13.0	/	13.0
100(5500MHz)	11.12	11.06	11.13	102(5510MHz)	11.08	11.23	106(5530MHz)	11.28
116(5580MHz)	11.09	11.12	11.10	110(5550MHz)	11.05	11.14	122(5610MHz)	11.14
124(5620MHz)	11.13	11.08	11.08	126(5630MHz)	11.13	11.08	/	/
132(5660MHz)	11.06	11.09	11.06	134(5670MHz)	11.08	11.13	/	/
140(5700MHz)	11.10	11.19	11.09	/	/	/	/	/
<U-NII-3>								
Tune up	13.0	13.0	13.0	/	13.0	13.0	/	13.0
149(5745MHz)	11.12	11.06	11.13	151(5755MHz)	11.07	11.20	155(5775MHz)	11.23
157(5785MHz)	11.09	11.12	11.10	159(5795MHz)	11.05	11.06	/	/
165(5825MHz)	11.13	11.08	11.08	/	/	/	/	/



Reduced power level 8								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	10.0	10.0	10.0	/	10.0	10.0	/	10.0
36(5180MHz)	8.36	8.31	8.28	38(5190MHz)	8.18	8.15	42(5210MHz)	8.25
40(5200MHz)	8.39	8.36	8.30	46(5230MHz)	8.20	8.26	/	/
44(5220MHz)	8.36	8.30	8.32	/	/	/	/	/
48(5240MHz)	8.41	8.48	8.35	/	/	/	/	/
<U-NII-2A>								
Tune up	10.0	10.0	10.0	/	10.0	10.0	/	10.0
52(5260MHz)	8.28	8.22	8.29	54(5270MHz)	8.11	8.25	58(5290MHz)	8.27
56(5280MHz)	8.25	8.18	8.21	62(5310MHz)	8.20	8.14	/	/
60(5300MHz)	8.17	8.11	8.15	/	/	/	/	/
64(5320MHz)	8.13	8.16	8.14	/	/	/	/	/
<U-NII-2C>								
Tune up	10.0	10.0	10.0	/	10.0	10.0	/	10.0
100(5500MHz)	8.18	8.15	8.19	102(5510MHz)	8.22	8.23	106(5530MHz)	8.22
116(5580MHz)	8.14	8.16	8.17	110(5550MHz)	8.14	8.14	122(5610MHz)	8.20
124(5620MHz)	8.18	8.11	8.12	126(5630MHz)	8.16	8.08	/	/
132(5660MHz)	8.09	8.13	8.15	134(5670MHz)	8.14	8.13	/	/
140(5700MHz)	8.21	8.25	8.14	/	/	/	/	/
<U-NII-3>								
Tune up	10.0	10.0	10.0	/	10.0	10.0	/	10.0
149(5745MHz)	8.22	8.18	8.14	151(5755MHz)	8.20	8.25	155(5775MHz)	8.19
157(5785MHz)	8.14	8.12	8.18	159(5795MHz)	8.14	8.16	/	/
165(5825MHz)	8.20	8.09	8.16	/	/	/	/	/



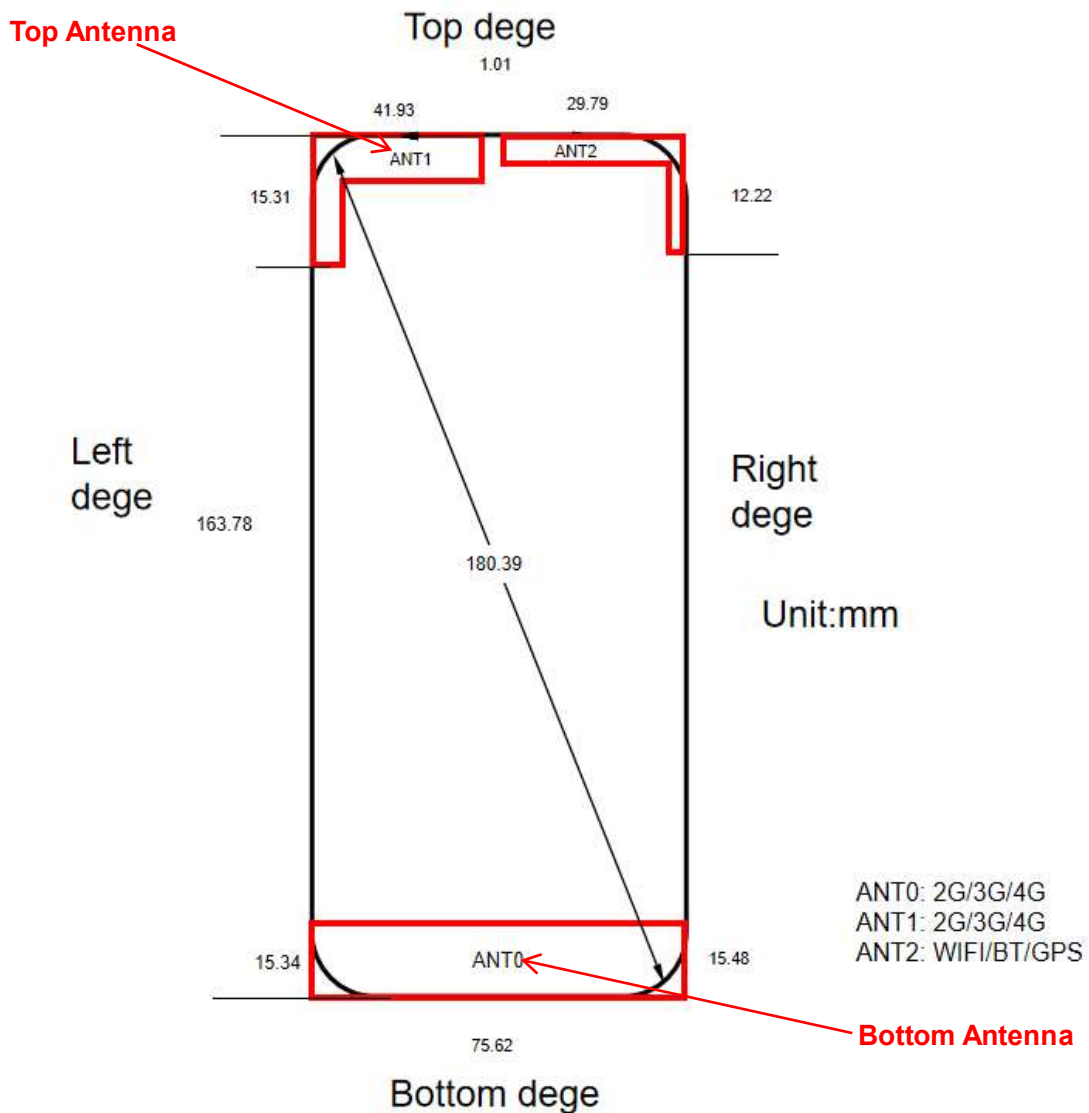
Reduced power level 9								
Averaged Power (dBm) Duty Cycle: 100%								
Mode	802.11a	802.11n -20MHz	802.11ac -20MHz	Mode	802.11n -40MHz	802.11ac -40MHz	Mode	802.11ac -80MHz
Channel	6Mbps	MCS0	MCS0	Channel	MCS0	MCS0	Channel	MCS0
<U-NII-1>								
Tune up	12.0	12.0	12.0	/	12.0	12.0	/	12.0
36(5180MHz)	10.38	10.33	10.33	38(5190MHz)	10.22	10.18	42(5210MHz)	10.33
40(5200MHz)	10.42	10.39	10.35	46(5230MHz)	10.23	10.29	/	/
44(5220MHz)	10.37	10.35	10.41	/	/	/	/	/
48(5240MHz)	10.45	10.44	10.37	/	/	/	/	/
<U-NII-2A>								
Tune up	12.0	12.0	12.0	/	12.0	12.0	/	12.0
52(5260MHz)	10.33	10.25	10.31	54(5270MHz)	10.15	10.31	58(5290MHz)	10.42
56(5280MHz)	10.26	10.22	10.25	62(5310MHz)	10.27	10.22	/	/
60(5300MHz)	10.19	10.18	10.18	/	/	/	/	/
64(5320MHz)	10.13	10.20	10.17	/	/	/	/	/
<U-NII-2C>								
Tune up	12.0	12.0	12.0	/	12.0	12.0	/	12.0
100(5500MHz)	10.22	10.20	10.22	102(5510MHz)	10.25	10.28	106(5530MHz)	10.25
116(5580MHz)	10.18	10.19	10.30	110(5550MHz)	10.19	10.21	122(5610MHz)	10.21
124(5620MHz)	10.21	10.15	10.19	126(5630MHz)	10.23	10.14	/	/
132(5660MHz)	10.12	10.21	10.25	134(5670MHz)	10.17	10.17	/	/
140(5700MHz)	10.28	10.28	10.22	/	/	/	/	/
<U-NII-3>								
Tune up	12.0	12.0	12.0	/	12.0	12.0	/	12.0
149(5745MHz)	10.28	10.23	10.17	151(5755MHz)	10.22	10.29	155(5775MHz)	10.13
157(5785MHz)	10.19	10.15	10.22	159(5795MHz)	10.19	10.17	/	/
165(5825MHz)	10.25	10.11	10.19	/	/	/	/	/

11. Simultaneous TX SAR Considerations

11.1. Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the Bluetooth and WLAN can transmit simultaneous with other transmitters.

11.2. Transmit Antenna Separation Distances



Picture 11.1 Antenna Locations (Back View)

11.3. SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 25mm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
Top antenna	Yes	Yes	Yes	Yes	Yes	No
Bottom antenna	Yes	Yes	Yes	Yes	No	Yes
WLAN antenna	Yes	Yes	Yes	Yes	Yes	No

11.4. Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Table 12.1: Standalone SAR test exclusion considerations

Band/Mode	f(GHz)	Position	SAR test exclusion threshold (mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.44	Head	9.60	10.0	10.00	No
		Body	19.20	10.0	10.00	Yes
WLAN 2.4G	2.45	Head	9.58	20.0	100.00	No
		Body	19.17	20.0	100.00	No
WLAN 5G	5.20	Head	6.58	16.0	39.81	No
		Body	13.16	16.0	39.81	No
	5.30	Head	6.52	16.0	39.81	No
		Body	13.03	16.0	39.81	No
	5.60	Head	6.34	16.0	39.81	No
		Body	12.68	16.0	39.81	No
	5.80	Head	6.23	16.0	39.81	No
		Body	12.46	16.0	39.81	No

12. Evaluation of Simultaneous

Table 12.1: The sum of reported SAR values for WWAN antenna and WLAN

<i>l</i>	Position	WWAN	WLAN	Sum
Highest reported SAR value for Head	Right Tilt	0.94	0.29	1.23
Highest reported SAR value for Hotspot	Rear	0.64	0.44	1.08
Highest reported SAR value for Body-worn	Rear	0.37	0.44	0.81

Note: the test positions of above tables are for the worse case that has been evaluated.

Table 12.2: The sum of reported SAR values for WWAN antenna and Bluetooth

<i>l</i>	Position	WWAN	Bluetooth	Sum
Highest reported SAR value for Head	Right Tilt	1.15	0.13	1.28
Highest reported SAR value for Hotspot	Top	1.18	0.21	1.39
Highest reported SAR value for Body-worn	Rear	0.52	0.14	0.66

Note: the test positions of above tables are for the worse case that has been evaluated.

Table 12.3: Estimated SAR for Bluetooth

Position	f (GHz)	Distance (mm)	Upper limit of power *		Estimated _{1g} (W/kg)
			dBm	mW	
Hotspot	2.441	10	10.0	6.31	0.21
Body-Worn	2.441	15	10.0	6.31	0.14

* - Maximum possible output power declared by manufacturer

Conclusion:

According to the above tables, the sum of reported SAR values is < 1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

13. Summary of Test Results

According to the client's decision rule in the test registration form, which is "based on the measurement results as the basis of the conformity statement", the test conclusion of this report meets the limit requirements.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 10.

The device support dual SIMs, SIM1 was used for the all configuration SAR testing and SIM2 test the worst case SAR of SIM1.

Note:

B2 (Battery): BLP805 (HUIZHOU DESAY BATTERY Co., LTD.)

B3 (Battery): BLP805 (Chongqing CosMX Battery Co., Ltd.)

B4 (Battery): BLP805 (PT.BATTERY TECHNOLOGY INDONESIA)

Duty Cycle

Mode	Duty Cycle
Speech for GSM850/1900	1:8.3
GPRS for GSM850	1:2
GPRS for GSM850 - Reduced power level 5	1:4
GPRS for GSM1900	1:2.67
WCDMA Band 2/4/5	1:1
FDD_LTE Band 2/4/7/12/26/66	1:1
TDD_LTE Band 38/41	1:1.58
Bluetooth	1:1

13.1. Testing Environment

Temperature:	18°C~25°C
Relative humidity:	30%~70%
Ground system resistance:	<4Ω
Ambient noise & Reflection:	< 0.012 W/kg

13.2. SAR results

Table 13.1: SAR Values (GSM 850 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Reduced power level 1									
190	836.6	Speech	Left Cheek	/	31.15	32.0	0.256	0.31	-0.03
190	836.6	Speech	Left Tilt	/	31.15	32.0	0.231	0.28	-0.03
190	836.6	Speech	Right Cheek	1	31.15	32.0	0.595	0.72	-0.02
190	836.6	Speech	Right Tilt	/	31.15	32.0	0.493	0.60	-0.03
190	836.6	Speech	Right Cheek	B2	31.15	32.0	0.578	0.70	0.04
190	836.6	Speech	Right Cheek	B3	31.15	32.0	0.556	0.68	0.12
190	836.6	Speech	Right Cheek	B4	31.15	32.0	0.574	0.70	0.03
Reduced power level 2									
190	836.6	Speech	Left Cheek	/	30.23	31.0	0.192	0.23	0.05
190	836.6	Speech	Left Tilt	/	30.23	31.0	0.171	0.20	-0.03
190	836.6	Speech	Right Cheek	/	30.23	31.0	0.441	0.53	-0.01
190	836.6	Speech	Right Tilt	/	30.23	31.0	0.365	0.44	0.02

Table 13.2: SAR Values (GSM 850 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
190	836.6	Speech	Left Cheek	/	32.42	34.0	0.171	0.25	-0.04
190	836.6	Speech	Left Tilt	/	32.42	34.0	0.071	0.10	0.06
190	836.6	Speech	Right Cheek	/	32.42	34.0	0.195	0.28	-0.10
190	836.6	Speech	Right Tilt	/	32.42	34.0	0.121	0.17	-0.11
190	836.6	Speech	Right Cheek	B2	32.42	34.0	0.187	0.27	-0.12
190	836.6	Speech	Right Cheek	B3	32.42	34.0	0.188	0.27	0.09
190	836.6	Speech	Right Cheek	B4	32.42	34.0	0.190	0.27	-0.19



Table 13.3: SAR Values (GSM 850 -Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
190	836.6	GPRS	Front	/	29.01	29.5	0.203	0.23	-0.05
190	836.6	GPRS	Rear	/	29.01	29.5	0.328	0.37	-0.19
190	836.6	GPRS	Left	/	29.01	29.5	0.161	0.18	-0.06
190	836.6	GPRS	Right	/	29.01	29.5	0.148	0.17	0.07
190	836.6	GPRS	Top	/	29.01	29.5	0.208	0.23	-0.07
190	836.6	GPRS	Rear	B2	29.01	29.5	0.317	0.35	0.04
190	836.6	GPRS	Rear	B3	29.01	29.5	0.301	0.34	0.12
190	836.6	GPRS	Rear	B4	29.01	29.5	0.311	0.35	0.09
Body-Worn Test Data (15mm)									
190	836.6	GPRS	Front	/	29.01	29.5	0.082	0.09	0.02
190	836.6	GPRS	Rear	/	29.01	29.5	0.168	0.19	0.01
Hotspot Test Data (10mm) - Reduced power level 5									
190	836.6	GPRS	Front	/	29.13	30.0	0.097	0.12	0.15
190	836.6	GPRS	Rear	/	29.13	30.0	0.158	0.19	-0.10
190	836.6	GPRS	Left	/	29.13	30.0	0.077	0.09	0.06
190	836.6	GPRS	Right	/	29.13	30.0	0.071	0.09	-0.09
190	836.6	GPRS	Top	/	29.13	30.0	0.100	0.12	0.14
Body-Worn Test Data (15mm) - Reduced power level 5									
190	836.6	GPRS	Front	/	29.13	30.0	0.039	0.05	0.03
190	836.6	GPRS	Rear	/	29.13	30.0	0.079	0.10	0.14



Table 13.4: SAR Values (GSM 850 -Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
190	836.6	GPRS	Front	/	28.91	29.5	0.229	0.26	0.01
190	836.6	GPRS	Rear	2	28.91	29.5	0.501	0.57	-0.03
190	836.6	GPRS	Left	/	28.91	29.5	0.324	0.37	0.07
190	836.6	GPRS	Right	/	28.91	29.5	0.189	0.22	-0.03
190	836.6	GPRS	Bottom	/	28.91	29.5	0.305	0.35	0.14
190	836.6	GPRS	Rear	B2	28.91	29.5	0.479	0.55	-0.02
190	836.6	GPRS	Rear	B3	28.91	29.5	0.483	0.55	-0.01
190	836.6	GPRS	Rear	B4	28.91	29.5	0.480	0.55	-0.19
Body-Worn Test Data (15mm)									
190	836.6	GPRS	Front	/	28.91	29.5	0.109	0.12	0.01
190	836.6	GPRS	Rear	/	28.91	29.5	0.318	0.36	-0.07

Table 13.5: SAR Values (GSM 1900 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Reduced power level 1									
661	1880	Speech	Left Cheek	/	26.09	26.5	0.365	0.40	0.08
661	1880	Speech	Left Tilt	/	26.09	26.5	0.435	0.48	0.00
661	1880	Speech	Right Cheek	/	26.09	26.5	0.569	0.63	0.06
661	1880	Speech	Right Tilt	3	26.09	26.5	0.714	0.78	-0.06
661	1880	Speech	Right Tilt	B2	26.09	26.5	0.707	0.78	0.04
661	1880	Speech	Right Tilt	B3	26.09	26.5	0.703	0.77	0.12
661	1880	Speech	Right Tilt	B4	26.09	26.5	0.688	0.76	0.06
Reduced power level 2									
661	1880	Speech	Left Cheek	/	25.18	25.5	0.295	0.32	0.13
661	1880	Speech	Left Tilt	/	25.18	25.5	0.352	0.38	0.05
661	1880	Speech	Right Cheek	/	25.18	25.5	0.461	0.50	-0.08
661	1880	Speech	Right Tilt	/	25.18	25.5	0.578	0.62	0.06

Table 13.6: SAR Values (GSM 1900 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
661	1880	Speech	Left Cheek	/	29.53	30.5	0.206	0.26	-0.15
661	1880	Speech	Left Tilt	/	29.53	30.5	0.112	0.14	-0.02
661	1880	Speech	Right Cheek	/	29.53	30.5	0.198	0.25	0.15
661	1880	Speech	Right Tilt	/	29.53	30.5	0.176	0.22	-0.07
661	1880	Speech	Left Cheek	B2	29.53	30.5	0.198	0.25	0.18
661	1880	Speech	Left Cheek	B3	29.53	30.5	0.203	0.25	0.15
661	1880	Speech	Left Cheek	B4	29.53	30.5	0.198	0.25	-0.17



Table 13.7: SAR Values (GSM 1900 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Hotspot Test Data (10mm)									
661	1880	GPRS	Front	/	27.15	27.5	0.551	0.60	0.01
661	1880	GPRS	Rear	/	27.15	27.5	0.730	0.79	0.06
661	1880	GPRS	Left	/	27.15	27.5	0.146	0.16	0.07
661	1880	GPRS	Right	/	27.15	27.5	0.078	0.08	0.12
661	1880	GPRS	Top	/	27.15	27.5	0.826	0.90	-0.14
810	1909.8	GPRS	Top	/	27.32	27.5	0.770	0.80	-0.17
512	1850.2	GPRS	Top	4	27.11	27.5	0.888	0.97	-0.17
512	1850.2	GPRS	Top	B2	27.11	27.5	0.826	0.90	0.14
512	1850.2	GPRS	Top	B3	27.11	27.5	0.866	0.95	0.03
512	1850.2	GPRS	Top	B4	27.11	27.5	0.873	0.96	0.06
Body-Worn Test Data (15mm)									
661	1880	GPRS	Front	/	27.15	27.5	0.245	0.27	0.04
661	1880	GPRS	Rear	/	27.15	27.5	0.352	0.38	0.17
Hotspot Test Data (10mm) - Reduced power level 5									
661	1880	GPRS	Front	/	23.93	25.0	0.247	0.32	0.01
661	1880	GPRS	Rear	/	23.93	25.0	0.327	0.42	-0.05
661	1880	GPRS	Left	/	23.93	25.0	0.065	0.08	0.12
661	1880	GPRS	Right	/	23.93	25.0	0.035	0.04	0.06
661	1880	GPRS	Top	/	23.93	25.0	0.370	0.47	-0.05
Body-Worn Test Data (15mm) - Reduced power level 5									
661	1880	GPRS	Front	/	23.93	25.0	0.119	0.15	0.08
661	1880	GPRS	Rear	/	23.93	25.0	0.171	0.22	0.02

Table 13.8: SAR Values (GSM 1900 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Hotspot Test Data (10mm)									
661	1880	GPRS	Front	/	26.95	27.5	0.327	0.37	0.07
661	1880	GPRS	Rear	/	26.95	27.5	0.558	0.63	0.09
661	1880	GPRS	Left	/	26.95	27.5	0.110	0.12	-0.03
661	1880	GPRS	Right	/	26.95	27.5	0.150	0.17	-0.13
661	1880	GPRS	Bottom	/	26.95	27.5	0.724	0.82	0.09
810	1909.8	GPRS	Bottom	/	27.08	27.5	0.728	0.80	0.06
512	1850.2	GPRS	Bottom	/	26.90	27.5	0.750	0.86	0.09
512	1850.2	GPRS	Bottom	B2	26.90	27.5	0.719	0.83	-0.06
512	1850.2	GPRS	Bottom	B3	26.90	27.5	0.741	0.85	-0.08
512	1850.2	GPRS	Bottom	B4	26.90	27.5	0.722	0.83	0.05
Body-Worn Test Data (15mm)									
661	1880	GPRS	Front	/	26.95	27.5	0.202	0.23	0.06
661	1880	GPRS	Rear	/	26.95	27.5	0.301	0.34	0.14
Hotspot Test Data (10mm) - Reduced power level 6									
661	1880	GPRS	Front	/	24.29	25.5	0.179	0.24	-0.02
661	1880	GPRS	Rear	/	24.29	25.5	0.305	0.40	-0.09
661	1880	GPRS	Left	/	24.29	25.5	0.060	0.08	-0.13
661	1880	GPRS	Right	/	24.29	25.5	0.082	0.11	-0.08
661	1880	GPRS	Bottom	/	24.29	25.5	0.396	0.52	0.13
Body-Worn Test Data (15mm) - Reduced power level 6									
661	1880	GPRS	Front	/	24.29	25.5	0.107	0.14	0.09
661	1880	GPRS	Rear	/	24.29	25.5	0.159	0.21	0.05

Table 13.9: SAR Values (WCDMA Band 2 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Reduced power level 1									
9400	1880	RMC	Left Cheek	/	18.60	19.5	0.539	0.66	-0.09
9400	1880	RMC	Left Tilt	/	18.60	19.5	0.604	0.74	0.01
9400	1880	RMC	Right Cheek	/	18.60	19.5	0.842	1.04	-0.02
9400	1880	RMC	Right Tilt	/	18.60	19.5	0.836	1.03	-0.02
9538	1907.6	RMC	Right Cheek	/	18.70	19.5	0.881	1.06	-0.02
9612	1852.4	RMC	Right Cheek	/	18.80	19.5	0.807	0.95	0.01
9538	1907.6	RMC	Right Tilt	5	18.70	19.5	0.907	1.09	0.03
9612	1852.4	RMC	Right Tilt	/	18.80	19.5	0.833	0.98	0.04
9538	1907.6	RMC	Right Tilt	B2	18.70	19.5	0.847	1.02	0.06
9538	1907.6	RMC	Right Tilt	B3	18.70	19.5	0.865	1.04	0.12
9538	1907.6	RMC	Right Tilt	B4	18.70	19.5	0.883	1.06	0.07
Reduced power level 2									
9400	1880	RMC	Left Cheek	/	17.60	18.5	0.424	0.52	-0.04
9400	1880	RMC	Left Tilt	/	17.60	18.5	0.475	0.58	0.08
9400	1880	RMC	Right Cheek	/	17.60	18.5	0.663	0.82	0.07
9400	1880	RMC	Right Tilt	/	17.60	18.5	0.658	0.81	-0.11
9538	1907.6	RMC	Right Cheek	/	17.70	18.5	0.694	0.83	0.14
9612	1852.4	RMC	Right Cheek	/	17.70	18.5	0.635	0.76	-0.14
9538	1907.6	RMC	Right Tilt	/	17.70	18.5	0.714	0.86	-0.17
9612	1852.4	RMC	Right Tilt	/	17.70	18.5	0.656	0.79	-0.02

Table 13.10: SAR Values (WCDMA Band 2 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
9400	1880	RMC	Left Cheek	/	23.00	24.0	0.130	0.16	0.11
9400	1880	RMC	Left Tilt	/	23.00	24.0	0.080	0.10	0.05
9400	1880	RMC	Right Cheek	/	23.00	24.0	0.069	0.09	-0.08
9400	1880	RMC	Right Tilt	/	23.00	24.0	0.061	0.08	-0.05
9400	1880	RMC	Left Cheek	B2	23.00	24.0	0.124	0.16	-0.11
9400	1880	RMC	Left Cheek	B3	23.00	24.0	0.128	0.16	-0.06
9400	1880	RMC	Left Cheek	B4	23.00	24.0	0.129	0.16	0.00



Table 13.11: SAR Values (WCDMA Band 2 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Hotspot Test Data (10mm) - Reduced power level 3									
9400	1880	RMC	Front	/	22.10	23.0	0.606	0.75	-0.03
9400	1880	RMC	Rear	/	22.10	23.0	0.851	1.05	0.09
9400	1880	RMC	Left	/	22.10	23.0	0.150	0.18	0.09
9400	1880	RMC	Right	/	22.10	23.0	0.075	0.09	0.18
9400	1880	RMC	Top	/	22.10	23.0	0.916	1.13	0.05
9538	1907.6	RMC	Rear	/	22.20	23.0	0.901	1.08	0.11
9612	1852.4	RMC	Rear	/	22.20	23.0	0.808	0.97	0.02
9538	1907.6	RMC	Top	6	22.20	23.0	0.982	1.18	0.08
9612	1852.4	RMC	Top	/	22.20	23.0	0.852	1.02	0.04
9538	1907.6	RMC	Top	SIM2	22.20	23.0	0.966	1.16	0.10
9538	1907.6	RMC	Top	B2	22.20	23.0	0.945	1.14	0.08
9538	1907.6	RMC	Top	B3	22.20	23.0	0.958	1.15	0.08
9538	1907.6	RMC	Top	B4	22.20	23.0	0.971	1.17	0.08
Body-Worn Test Data (15mm) - Reduced power level 3									
9400	1880	RMC	Front	/	22.10	23.0	0.250	0.31	0.09
9400	1880	RMC	Rear	/	22.10	23.0	0.290	0.36	0.18
Hotspot Test Data (10mm) - Reduced power level 5									
9400	1880	RMC	Front	/	20.70	21.5	0.333	0.40	-0.09
9400	1880	RMC	Rear	/	20.70	21.5	0.467	0.56	0.12
9400	1880	RMC	Left	/	20.70	21.5	0.082	0.10	0.02
9400	1880	RMC	Right	/	20.70	21.5	0.041	0.05	0.01
9400	1880	RMC	Top	/	20.70	21.5	0.503	0.60	-0.03
Body-Worn Test Data (15mm) - Reduced power level 5									
9400	1880	RMC	Front	/	20.70	21.5	0.198	0.24	-0.07
9400	1880	RMC	Rear	/	20.70	21.5	0.230	0.28	0.07

Table 13.12: SAR Values (WCDMA Band 2 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Hotspot Test Data (10mm) - Reduced power level 4									
9400	1880	RMC	Front	/	22.60	23.5	0.316	0.39	0.02
9400	1880	RMC	Rear	/	22.60	23.5	0.630	0.78	0.15
9400	1880	RMC	Left	/	22.60	23.5	0.089	0.11	0.03
9400	1880	RMC	Right	/	22.60	23.5	0.104	0.13	0.03
9400	1880	RMC	Bottom	/	22.60	23.5	0.774	0.95	0.02
9538	1907.6	RMC	Bottom	/	22.60	23.5	0.721	0.89	0.01
9612	1852.4	RMC	Bottom	/	22.70	23.5	0.858	1.03	0.02
9612	1852.4	RMC	Bottom	B2	22.70	23.5	0.837	1.01	-0.07
9612	1852.4	RMC	Bottom	B3	22.70	23.5	0.832	1.00	0.15
9612	1852.4	RMC	Bottom	B4	22.70	23.5	0.818	0.98	0.18
Body-Worn Test Data (15mm) - Reduced power level 4									
9400	1880	RMC	Front	/	22.60	23.5	0.226	0.28	0.08
9400	1880	RMC	Rear	/	22.60	23.5	0.392	0.48	0.02
Hotspot Test Data (10mm) - Reduced power level 6									
9400	1880	RMC	Front	/	21.00	22.0	0.224	0.28	-0.01
9400	1880	RMC	Rear	/	21.00	22.0	0.447	0.56	-0.04
9400	1880	RMC	Left	/	21.00	22.0	0.063	0.08	0.08
9400	1880	RMC	Right	/	21.00	22.0	0.074	0.09	0.03
9400	1880	RMC	Bottom	/	21.00	22.0	0.549	0.69	0.19
Body-Worn Test Data (15mm) - Reduced power level 6									
9400	1880	RMC	Front	/	21.00	22.0	0.150	0.19	0.06
9400	1880	RMC	Rear	/	21.00	22.0	0.261	0.33	0.17



Table 13.13: SAR Values (WCDMA Band 4 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Reduced power level 1									
1413	1732.6	RMC	Left Cheek	/	19.20	20.0	0.469	0.56	-0.04
1413	1732.6	RMC	Left Tilt	/	19.20	20.0	0.568	0.68	0.01
1413	1732.6	RMC	Right Cheek	/	19.20	20.0	0.847	1.02	0.06
1413	1732.6	RMC	Right Tilt	/	19.20	20.0	0.887	1.07	0.00
1513	1752.6	RMC	Right Cheek	/	19.20	20.0	0.898	1.08	0.01
1312	1712.4	RMC	Right Cheek	/	19.50	20.0	0.829	0.93	0.03
1513	1752.6	RMC	Right Tilt	7	19.20	20.0	0.910	1.09	0.01
1312	1712.4	RMC	Right Tilt	/	19.50	20.0	0.466	0.52	0.01
1513	1752.6	RMC	Right Tilt	B2	19.20	20.0	0.832	1.00	0.03
1513	1752.6	RMC	Right Tilt	B3	19.20	20.0	0.856	1.03	0.12
1513	1752.6	RMC	Right Tilt	B4	19.20	20.0	0.881	1.06	0.07
Reduced power level 2									
1413	1732.6	RMC	Left Cheek	/	17.70	18.5	0.332	0.40	0.10
1413	1732.6	RMC	Left Tilt	/	17.70	18.5	0.403	0.48	-0.16
1413	1732.6	RMC	Right Cheek	/	17.70	18.5	0.600	0.72	-0.06
1413	1732.6	RMC	Right Tilt	/	17.70	18.5	0.629	0.76	0.01

Table 13.14: SAR Values (WCDMA Band 4 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
1413	1732.6	RMC	Left Cheek	/	23.30	24.0	0.116	0.14	-0.03
1413	1732.6	RMC	Left Tilt	/	23.30	24.0	0.074	0.09	0.15
1413	1732.6	RMC	Right Cheek	/	23.30	24.0	0.079	0.09	0.08
1413	1732.6	RMC	Right Tilt	/	23.30	24.0	0.086	0.10	-0.09
1413	1732.6	RMC	Left Cheek	B2	23.30	24.0	0.115	0.14	0.12
1413	1732.6	RMC	Left Cheek	B3	23.30	24.0	0.114	0.13	0.16
1413	1732.6	RMC	Left Cheek	B4	23.30	24.0	0.112	0.13	0.12



Table 13.15: SAR Values (WCDMA Band 4 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Hotspot Test Data (10mm) - Reduced power level 3									
1413	1732.6	RMC	Front	/	22.30	23.0	0.520	0.61	0.06
1413	1732.6	RMC	Rear	/	22.30	23.0	0.720	0.85	0.05
1413	1732.6	RMC	Left	/	22.30	23.0	0.063	0.07	0.16
1413	1732.6	RMC	Right	/	22.30	23.0	0.027	0.03	0.04
1413	1732.6	RMC	Top	/	22.30	23.0	0.475	0.56	-0.09
1513	1752.6	RMC	Rear	8	22.30	23.0	0.759	0.89	0.07
1312	1712.4	RMC	Rear	/	22.50	23.0	0.682	0.77	0.06
1513	1752.6	RMC	Rear	B2	22.30	23.0	0.687	0.81	0.04
1513	1752.6	RMC	Rear	B3	22.30	23.0	0.701	0.82	0.12
1513	1752.6	RMC	Rear	B4	22.30	23.0	0.732	0.86	0.06
Body-Worn Test Data (15mm) - Reduced power level 3									
1413	1732.6	RMC	Front	/	22.30	23.0	0.223	0.26	0.14
1413	1732.6	RMC	Rear	/	22.30	23.0	0.271	0.32	0.10
Hotspot Test Data (10mm) - Reduced power level 5									
1413	1732.6	RMC	Front	/	21.40	22.0	0.325	0.37	0.09
1413	1732.6	RMC	Rear	/	21.40	22.0	0.455	0.52	-0.04
1413	1732.6	RMC	Left	/	21.40	22.0	0.039	0.04	-0.14
1413	1732.6	RMC	Right	/	21.40	22.0	0.017	0.02	0.17
1413	1732.6	RMC	Top	/	21.40	22.0	0.297	0.34	-0.14
Body-Worn Test Data (15mm) - Reduced power level 5									
1413	1732.6	RMC	Front	/	21.40	22.0	0.177	0.20	0.03
1413	1732.6	RMC	Rear	/	21.40	22.0	0.213	0.24	0.14



Table 13.16: SAR Values (WCDMA Band 4 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Hotspot Test Data (10mm) - Reduced power level 4									
1413	1732.6	RMC	Front	/	22.30	23.0	0.233	0.27	0.14
1413	1732.6	RMC	Rear	/	22.30	23.0	0.604	0.71	0.02
1413	1732.6	RMC	Left	/	22.30	23.0	0.072	0.08	0.11
1413	1732.6	RMC	Right	/	22.30	23.0	0.116	0.14	0.03
1413	1732.6	RMC	Bottom	/	22.30	23.0	0.758	0.89	0.02
1513	1752.6	RMC	Bottom	/	22.30	23.0	0.710	0.83	0.05
1312	1712.4	RMC	Bottom	/	22.50	23.0	0.630	0.71	0.05
1413	1732.6	RMC	Bottom	B2	22.30	23.0	0.734	0.86	-0.16
1413	1732.6	RMC	Bottom	B3	22.30	23.0	0.747	0.88	0.03
1413	1732.6	RMC	Bottom	B4	22.30	23.0	0.730	0.86	0.07
Body-Worn Test Data (15mm) - Reduced power level 4									
1413	1732.6	RMC	Front	/	22.30	23.0	0.132	0.16	0.04
1413	1732.6	RMC	Rear	/	22.30	23.0	0.276	0.32	-0.02
Hotspot Test Data (10mm) - Reduced power level 6									
1413	1732.6	RMC	Front	/	20.80	21.5	0.146	0.17	0.13
1413	1732.6	RMC	Rear	/	20.80	21.5	0.378	0.44	0.00
1413	1732.6	RMC	Left	/	20.80	21.5	0.045	0.05	-0.03
1413	1732.6	RMC	Right	/	20.80	21.5	0.073	0.09	0.12
1413	1732.6	RMC	Bottom	/	20.80	21.5	0.474	0.56	0.06
Body-Worn Test Data (15mm) - Reduced power level 6									
1413	1732.6	RMC	Front	/	20.80	21.5	0.094	0.11	0.04
1413	1732.6	RMC	Rear	/	20.80	21.5	0.196	0.23	0.02

Table 13.17: SAR Values (WCDMA Band 5 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
4182	836.4	RMC	Left Cheek	/	23.40	24.0	0.462	0.53	-0.16
4182	836.4	RMC	Left Tilt	/	23.40	24.0	0.105	0.12	0.03
4182	836.4	RMC	Right Cheek	9	23.40	24.0	0.657	0.75	-0.08
4182	836.4	RMC	Right Tilt	/	23.40	24.0	0.197	0.23	0.10
4182	836.4	RMC	Right Cheek	B2	23.40	24.0	0.609	0.70	-0.08
4182	836.4	RMC	Right Cheek	B3	23.40	24.0	0.621	0.71	-0.08
4182	836.4	RMC	Right Cheek	B4	23.40	24.0	0.631	0.72	-0.08

Table 13.18: SAR Values (WCDMA Band 5 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
4182	836.4	RMC	Left Cheek	/	23.30	24.0	0.107	0.13	0.13
4182	836.4	RMC	Left Tilt	/	23.30	24.0	0.054	0.06	0.00
4182	836.4	RMC	Right Cheek	/	23.30	24.0	0.096	0.11	-0.12
4182	836.4	RMC	Right Tilt	/	23.30	24.0	0.055	0.06	-0.11
4182	836.4	RMC	Left Cheek	B2	23.30	24.0	0.103	0.12	-0.12
4182	836.4	RMC	Left Cheek	B3	23.30	24.0	0.106	0.12	-0.03
4182	836.4	RMC	Left Cheek	B4	23.30	24.0	0.102	0.12	-0.11



Table 13.19: SAR Values (WCDMA Band 5 -Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
4182	836.4	RMC	Front	/	23.40	24.0	0.124	0.14	0.06
4182	836.4	RMC	Rear	/	23.40	24.0	0.202	0.23	-0.09
4182	836.4	RMC	Left	/	23.40	24.0	0.082	0.09	0.04
4182	836.4	RMC	Right	/	23.40	24.0	0.056	0.06	0.15
4182	836.4	RMC	Top	/	23.40	24.0	0.128	0.15	0.02
4182	836.4	RMC	Rear	B2	23.40	24.0	0.185	0.21	0.06
4182	836.4	RMC	Rear	B3	23.40	24.0	0.190	0.22	0.12
4182	836.4	RMC	Rear	B4	23.40	24.0	0.193	0.22	0.06
Body-Worn Test Data (15mm)									
4182	836.4	RMC	Front	/	23.40	24.0	0.076	0.09	0.13
4182	836.4	RMC	Rear	/	23.40	24.0	0.103	0.12	0.05

Table 13.20: SAR Values (WCDMA Band 5 -Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
4182	836.4	RMC	Front	/	23.30	24.0	0.162	0.19	0.03
4182	836.4	RMC	Rear	10	23.30	24.0	0.311	0.37	0.02
4182	836.4	RMC	Left	/	23.30	24.0	0.276	0.32	0.10
4182	836.4	RMC	Right	/	23.30	24.0	0.189	0.22	0.08
4182	836.4	RMC	Bottom	/	23.30	24.0	0.208	0.24	0.13
4182	836.4	RMC	Rear	B2	23.30	24.0	0.305	0.36	-0.01
4182	836.4	RMC	Rear	B3	23.30	24.0	0.307	0.36	0.13
4182	836.4	RMC	Rear	B4	23.30	24.0	0.297	0.35	0.04
Body-Worn Test Data (15mm)									
4182	836.4	RMC	Front	/	23.30	24.0	0.115	0.14	-0.07
4182	836.4	RMC	Rear	/	23.30	24.0	0.149	0.18	0.06



Table 13.21: SAR Values (LTE Band 2 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Reduced power level 1									
18900	1880	1RB50	Left Cheek	/	18.45	19.0	0.519	0.59	-0.12
18900	1880	50RB25	Left Cheek	/	18.42	19.0	0.520	0.59	0.18
18900	1880	1RB50	Left Tilt	/	18.45	19.0	0.603	0.68	-0.17
18900	1880	50RB25	Left Tilt	/	18.42	19.0	0.602	0.69	-0.18
18900	1880	1RB50	Right Cheek	/	18.45	19.0	0.741	0.84	0.18
18900	1880	50RB25	Right Cheek	/	18.42	19.0	0.730	0.83	0.14
18900	1880	1RB50	Right Tilt	/	18.45	19.0	0.830	0.94	0.02
18900	1880	50RB25	Right Tilt	/	18.42	19.0	0.803	0.92	-0.10
19100	1900	1RB50	Right Cheek	/	18.44	19.0	0.741	0.84	-0.05
18700	1860	1RB50	Right Cheek	/	18.43	19.0	0.714	0.81	-0.11
19100	1900	50RB25	Right Cheek	/	18.38	19.0	0.735	0.85	-0.07
18700	1860	50RB25	Right Cheek	/	18.39	19.0	0.730	0.84	-0.18
19100	1900	1RB50	Right Tilt	11	18.44	19.0	0.917	1.04	0.10
18700	1860	1RB50	Right Tilt	/	18.43	19.0	0.884	1.01	-0.16
19100	1900	50RB25	Right Tilt	/	18.38	19.0	0.910	1.05	-0.03
18700	1860	50RB25	Right Tilt	/	18.39	19.0	0.904	1.04	0.10
18700	1860	100RB	Right Tilt	/	18.39	19.0	0.888	1.02	-0.14
19100	1900	50RB25	Right Tilt	B2	18.38	19.0	0.873	1.01	-0.14
19100	1900	50RB25	Right Tilt	B3	18.38	19.0	0.901	1.04	0.02
19100	1900	50RB25	Right Tilt	B4	18.38	19.0	0.890	1.03	-0.15
Reduced power level 2									
18900	1880	1RB50	Left Cheek	/	17.44	18.0	0.544	0.62	-0.03
18900	1880	50RB25	Left Cheek	/	17.39	18.0	0.538	0.62	-0.01
18900	1880	1RB50	Left Tilt	/	17.44	18.0	0.629	0.72	-0.01
18900	1880	50RB25	Left Tilt	/	17.39	18.0	0.623	0.72	0.13
18900	1880	1RB50	Right Cheek	/	17.44	18.0	0.575	0.65	0.17
18900	1880	50RB25	Right Cheek	/	17.39	18.0	0.581	0.67	-0.11
18900	1880	1RB50	Right Tilt	/	17.44	18.0	0.715	0.81	-0.02
18900	1880	50RB25	Right Tilt	/	17.39	18.0	0.640	0.74	0.08
19100	1900	1RB50	Right Tilt	/	17.43	18.0	0.730	0.83	0.03
18700	1860	1RB50	Right Tilt	/	17.42	18.0	0.703	0.80	-0.05
18700	1860	100RB	Right Tilt	/	17.39	18.0	0.712	0.82	0.03



Table 13.22: SAR Values (LTE Band 2 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
18900	1880	1RB50	Left Cheek	/	23.11	24.0	0.126	0.15	-0.14
18900	1880	50RB0	Left Cheek	/	22.14	23.0	0.068	0.08	0.05
18900	1880	1RB50	Left Tilt	/	23.11	24.0	0.073	0.09	-0.15
18900	1880	50RB0	Left Tilt	/	22.14	23.0	0.039	0.05	-0.04
18900	1880	1RB50	Right Cheek	/	23.11	24.0	0.088	0.11	0.06
18900	1880	50RB0	Right Cheek	/	22.14	23.0	0.047	0.06	-0.14
18900	1880	1RB50	Right Tilt	/	23.11	24.0	0.064	0.08	-0.04
18900	1880	50RB0	Right Tilt	/	22.14	23.0	0.035	0.04	0.07
18900	1880	1RB50	Left Cheek	B2	23.11	24.0	0.122	0.15	0.17
18900	1880	1RB50	Left Cheek	B3	23.11	24.0	0.124	0.15	0.20
18900	1880	1RB50	Left Cheek	B4	23.11	24.0	0.122	0.15	0.05



Table 13.23: SAR Values (LTE Band 2 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Hotspot Test Data (10mm) - Reduced power level 3									
19100	1900	1RB50	Front	/	22.45	23.0	0.542	0.62	-0.11
19100	1900	50RB25	Front	/	22.47	23.0	0.518	0.59	0.03
19100	1900	1RB50	Rear	/	22.45	23.0	0.657	0.75	0.19
19100	1900	50RB25	Rear	/	22.47	23.0	0.661	0.75	0.10
19100	1900	1RB50	Left	/	22.45	23.0	0.132	0.15	0.14
19100	1900	50RB25	Left	/	22.47	23.0	0.133	0.15	0.07
19100	1900	1RB50	Right	/	22.45	23.0	0.066	0.08	0.03
19100	1900	50RB25	Right	/	22.47	23.0	0.067	0.08	0.05
19100	1900	1RB50	Top	/	22.45	23.0	0.791	0.90	0.10
19100	1900	50RB25	Top	/	22.47	23.0	0.799	0.90	0.10
18900	1880	1RB50	Top	/	22.40	23.0	0.708	0.81	0.09
18700	1860	1RB50	Top	/	22.44	23.0	0.686	0.78	0.07
18900	1880	50RB25	Top	/	22.45	23.0	0.712	0.81	0.09
18700	1860	50RB25	Top	/	22.44	23.0	0.681	0.77	0.08
19100	1900	100RB	Top	/	22.38	23.0	0.740	0.85	0.08
19100	1900	50RB25	Top	B2	22.47	23.0	0.765	0.86	0.02
19100	1900	50RB25	Top	B3	22.47	23.0	0.776	0.88	-0.09
19100	1900	50RB25	Top	B4	22.47	23.0	0.789	0.89	0.04
Body-Worn Test Data (15mm) - Reduced power level 3									
19100	1900	1RB50	Front	/	22.45	23.0	0.272	0.31	0.02
19100	1900	50RB25	Front	/	22.47	23.0	0.271	0.31	0.12
19100	1900	1RB50	Rear	/	22.45	23.0	0.344	0.39	0.06
19100	1900	50RB25	Rear	/	22.47	23.0	0.346	0.39	0.11
Hotspot Test Data (10mm) - Reduced power level 5									
19100	1900	1RB50	Front	/	20.89	21.5	0.381	0.44	0.13
19100	1900	50RB25	Front	/	20.91	21.5	0.364	0.42	0.12
19100	1900	1RB50	Rear	/	20.89	21.5	0.462	0.53	0.16
19100	1900	50RB25	Rear	/	20.91	21.5	0.465	0.53	-0.01
19100	1900	1RB50	Left	/	20.89	21.5	0.093	0.11	0.13
19100	1900	50RB25	Left	/	20.91	21.5	0.093	0.11	0.07
19100	1900	1RB50	Right	/	20.89	21.5	0.047	0.05	0.17
19100	1900	50RB25	Right	/	20.91	21.5	0.047	0.05	0.15
19100	1900	1RB50	Top	/	20.89	21.5	0.556	0.64	0.03
19100	1900	50RB25	Top	/	20.91	21.5	0.555	0.64	0.03
Body-Worn Test Data (15mm) - Reduced power level 5									
19100	1900	1RB50	Front	/	20.89	21.5	0.199	0.23	-0.16
19100	1900	50RB25	Front	/	20.91	21.5	0.199	0.23	0.13



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19100	1900	1RB50	Rear	/	20.89	21.5	0.252	0.29	0.06
19100	1900	50RB25	Rear	/	20.91	21.5	0.253	0.29	0.16



Table 13.24: SAR Values (LTE Band 2 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.3°C Liquid Temperature: 21.8°C									
Hotspot Test Data (10mm) - Reduced power level 4									
18900	1880	1RB50	Front	/	22.55	23.5	0.359	0.45	-0.10
18900	1880	50RB0	Front	/	22.17	23.0	0.318	0.38	-0.08
18900	1880	1RB50	Rear	/	22.55	23.5	0.732	0.91	0.16
18900	1880	50RB0	Rear	/	22.17	23.0	0.651	0.79	0.02
18900	1880	1RB50	Left	/	22.55	23.5	0.091	0.11	0.13
18900	1880	50RB0	Left	/	22.17	23.0	0.081	0.10	0.06
18900	1880	1RB50	Right	/	22.55	23.5	0.130	0.16	0.04
18900	1880	50RB0	Right	/	22.17	23.0	0.116	0.14	0.03
18900	1880	1RB50	Bottom	/	22.55	23.5	0.848	1.06	0.19
18900	1880	50RB0	Bottom	/	22.17	23.0	0.769	0.93	0.01
19100	1900	1RB50	Rear	/	22.51	23.5	0.730	0.92	0.05
18700	1860	1RB50	Rear	/	22.54	23.5	0.703	0.88	0.09
18900	1880	100RB0	Rear	/	22.09	23.0	0.624	0.77	0.01
19100	1900	1RB50	Bottom	/	22.51	23.5	0.837	1.05	0.01
18700	1860	1RB50	Bottom	12	22.54	23.5	0.864	1.08	0.03
19100	1900	50RB0	Bottom	/	22.05	23.0	0.749	0.93	0.01
18700	1860	50RB0	Bottom	/	22.05	23.0	0.764	0.95	0.02
18900	1880	100RB0	Bottom	/	22.09	23.0	0.751	0.93	0.02
18700	1860	1RB50	Bottom	B2	22.54	23.5	0.854	1.07	0.18
18700	1860	1RB50	Bottom	B3	22.54	23.5	0.848	1.06	-0.12
18700	1860	1RB50	Bottom	B4	22.54	23.5	0.850	1.06	0.06
Body-Worn Test Data (15mm) - Reduced power level 4									
18900	1880	1RB50	Front	/	22.55	23.5	0.277	0.34	0.00
18900	1880	50RB0	Front	/	22.17	23.0	0.232	0.28	0.05
18900	1880	1RB50	Rear	/	22.55	23.5	0.415	0.52	0.02
18900	1880	50RB0	Rear	/	22.17	23.0	0.353	0.43	0.17
18900	1880	1RB50	Rear	SIM2	22.55	23.5	0.406	0.51	0.08
Hotspot Test Data (10mm) - Reduced power level 6									
18900	1880	1RB50	Front	/	21.11	22.0	0.254	0.31	0.11
18900	1880	50RB0	Front	/	21.17	22.0	0.225	0.27	0.01
18900	1880	1RB50	Rear	/	21.11	22.0	0.518	0.64	-0.01
18900	1880	50RB0	Rear	/	21.17	22.0	0.461	0.56	-0.13
18900	1880	1RB50	Left	/	21.11	22.0	0.065	0.08	-0.11
18900	1880	50RB0	Left	/	21.17	22.0	0.057	0.07	0.10
18900	1880	1RB50	Right	/	21.11	22.0	0.092	0.11	-0.13
18900	1880	50RB0	Right	/	21.17	22.0	0.082	0.10	0.05
18900	1880	1RB50	Bottom	/	21.11	22.0	0.600	0.74	-0.09



18900	1880	50RB0	Bottom	/	21.17	22.0	0.544	0.66	-0.10
Body-Worn Test Data (15mm) - Reduced power level 6									
18900	1880	1RB50	Front	/	21.11	22.0	0.200	0.25	0.03
18900	1880	50RB0	Front	/	21.17	22.0	0.167	0.20	0.08
18900	1880	1RB50	Rear	/	21.11	22.0	0.299	0.37	0.14
18900	1880	50RB0	Rear	/	21.17	22.0	0.254	0.31	-0.02



Table 13.25: SAR Values (LTE Band 4 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Reduced power level 1									
20175	1732.5	1RB50	Left Cheek	/	19.05	19.5	0.552	0.61	0.00
20175	1732.5	50RB25	Left Cheek	/	18.98	19.5	0.548	0.62	-0.11
20175	1732.5	1RB50	Left Tilt	/	19.05	19.5	0.694	0.77	0.00
20175	1732.5	50RB25	Left Tilt	/	18.98	19.5	0.689	0.78	0.01
20175	1732.5	1RB50	Right Cheek	/	19.05	19.5	0.795	0.88	0.05
20175	1732.5	50RB25	Right Cheek	/	18.98	19.5	0.801	0.90	0.06
20175	1732.5	1RB50	Right Tilt	/	19.05	19.5	0.926	1.03	-0.20
20175	1732.5	50RB25	Right Tilt	/	18.98	19.5	0.926	1.04	0.03
20300	1745	1RB50	Right Cheek	/	19.04	19.5	0.782	0.87	0.11
20050	1720	1RB50	Right Cheek	/	18.98	19.5	0.744	0.84	-0.01
20300	1745	50RB25	Right Cheek	/	18.97	19.5	0.801	0.90	0.14
20050	1720	50RB25	Right Cheek	/	18.90	19.5	0.744	0.85	-0.18
20300	1745	1RB50	Right Tilt	/	19.04	19.5	0.941	1.05	0.20
20050	1720	1RB50	Right Tilt	/	18.98	19.5	0.896	1.01	0.09
20300	1745	50RB25	Right Tilt	13	18.97	19.5	0.964	1.09	0.12
20050	1720	50RB25	Right Tilt	/	18.90	19.5	0.896	1.03	0.17
20300	1745	100RB	Right Tilt	/	18.99	19.5	0.903	1.02	0.15
20300	1745	50RB25	Right Tilt	B2	18.97	19.5	0.935	1.06	-0.03
20300	1745	50RB25	Right Tilt	B3	18.97	19.5	0.928	1.05	0.00
20300	1745	50RB25	Right Tilt	B4	18.97	19.5	0.937	1.06	0.07
Reduced power level 2									
20175	1732.5	1RB50	Left Cheek	/	18.59	19.0	0.459	0.50	0.14
20175	1732.5	50RB25	Left Cheek	/	18.51	19.0	0.455	0.51	0.18
20175	1732.5	1RB50	Left Tilt	/	18.59	19.0	0.577	0.63	-0.12
20175	1732.5	50RB25	Left Tilt	/	18.51	19.0	0.572	0.64	-0.10
20175	1732.5	1RB50	Right Cheek	/	18.59	19.0	0.661	0.73	0.09
20175	1732.5	50RB25	Right Cheek	/	18.51	19.0	0.666	0.75	0.01
20175	1732.5	1RB50	Right Tilt	/	18.59	19.0	0.769	0.85	0.08
20175	1732.5	50RB25	Right Tilt	/	18.51	19.0	0.769	0.86	0.14
20300	1745	1RB50	Right Tilt	/	18.58	19.0	0.782	0.86	-0.03
20050	1720	1RB50	Right Tilt	/	18.52	19.0	0.744	0.83	0.20
20300	1745	50RB25	Right Tilt	/	18.46	19.0	0.801	0.91	0.06
20050	1720	50RB25	Right Tilt	/	18.38	19.0	0.744	0.86	0.02
20300	1745	100RB	Right Tilt	/	18.49	19.0	0.750	0.84	0.05



Table 13.26: SAR Values (LTE Band 4 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
20300	1745	1RB50	Left Cheek	/	23.23	24.0	0.062	0.07	0.10
20300	1745	50RB25	Left Cheek	/	22.22	23.0	0.032	0.04	0.05
20300	1745	1RB50	Left Tilt	/	23.23	24.0	0.014	0.02	-0.04
20300	1745	50RB25	Left Tilt	/	22.22	23.0	0.007	0.01	0.01
20300	1745	1RB50	Right Cheek	/	23.23	24.0	0.021	0.02	0.07
20300	1745	50RB25	Right Cheek	/	22.22	23.0	0.010	0.01	0.03
20300	1745	1RB50	Right Tilt	/	23.23	24.0	0.006	0.01	0.10
20300	1745	50RB25	Right Tilt	/	22.22	23.0	0.004	0.00	-0.14
20300	1745	1RB50	Left Cheek	B2	23.23	24.0	0.061	0.07	0.04
20300	1745	1RB50	Left Cheek	B3	23.23	24.0	0.057	0.07	-0.05
20300	1745	1RB50	Left Cheek	B4	23.23	24.0	0.054	0.06	-0.02



Table 13.27: SAR Values (LTE Band 4 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Hotspot Test Data (10mm) - Reduced power level 3									
20300	1745	1RB50	Front	/	23.03	23.5	0.460	0.51	0.05
20300	1745	50RB50	Front	/	22.54	23.0	0.413	0.46	0.10
20300	1745	1RB50	Rear	/	23.03	23.5	0.656	0.73	0.04
20300	1745	50RB50	Rear	/	22.54	23.0	0.559	0.62	0.08
20300	1745	1RB50	Left	/	23.03	23.5	0.178	0.20	0.17
20300	1745	50RB50	Left	/	22.54	23.0	0.141	0.16	-0.01
20300	1745	1RB50	Right	/	23.03	23.5	0.116	0.13	0.01
20300	1745	50RB50	Right	/	22.54	23.0	0.092	0.10	0.09
20300	1745	1RB50	Top	14	23.03	23.5	0.854	0.95	0.05
20300	1745	50RB50	Top	/	22.54	23.0	0.767	0.85	0.02
20175	1732.5	1RB50	Top	/	22.99	23.5	0.839	0.94	0.02
20050	1720	1RB50	Top	/	22.95	23.5	0.796	0.90	0.01
20175	1732.5	50RB50	Top	/	22.53	23.0	0.738	0.82	0.01
20050	1720	50RB50	Top	/	22.41	23.0	0.707	0.81	0.02
20175	1732.5	100RB	Top	/	22.50	23.0	0.737	0.83	0.03
20300	1745	1RB50	Top	B2	23.03	23.5	0.827	0.92	-0.12
20300	1745	1RB50	Top	B3	23.03	23.5	0.816	0.91	-0.05
20300	1745	1RB50	Top	B4	23.03	23.5	0.826	0.92	0.15
Body-Worn Test Data (15mm) - Reduced power level 3									
20300	1745	1RB50	Front	/	23.03	23.5	0.252	0.28	0.05
20300	1745	50RB50	Front	/	22.54	23.0	0.229	0.25	0.17
20300	1745	1RB50	Rear	/	23.03	23.5	0.322	0.36	0.12
20300	1745	50RB50	Rear	/	22.54	23.0	0.291	0.32	0.09
Hotspot Test Data (10mm) - Reduced power level 5									
20300	1745	1RB50	Front	/	21.50	22.0	0.319	0.36	-0.10
20300	1745	50RB50	Front	/	21.52	22.0	0.287	0.32	-0.06
20300	1745	1RB50	Rear	/	21.50	22.0	0.456	0.51	-0.20
20300	1745	50RB50	Rear	/	21.52	22.0	0.388	0.43	-0.16
20300	1745	1RB50	Left	/	21.50	22.0	0.124	0.14	-0.19
20300	1745	50RB50	Left	/	21.52	22.0	0.098	0.11	-0.02
20300	1745	1RB50	Right	/	21.50	22.0	0.081	0.09	0.18
20300	1745	50RB50	Right	/	21.52	22.0	0.064	0.07	0.12
20300	1745	1RB50	Top	/	21.50	22.0	0.593	0.67	0.00
20300	1745	50RB50	Top	/	21.52	22.0	0.533	0.60	0.17
Body-Worn Test Data (15mm) - Reduced power level 5									
20300	1745	1RB50	Front	/	21.50	22.0	0.181	0.20	-0.18
20300	1745	50RB50	Front	/	21.52	22.0	0.164	0.18	0.16



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20300	1745	1RB50	Rear	/	21.50	22.0	0.231	0.26	-0.11
20300	1745	50RB50	Rear	/	21.52	22.0	0.209	0.23	0.12



Table 13.28: SAR Values (LTE Band 4 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Hotspot Test Data (10mm) - Reduced power level 4									
20300	1745	1RB50	Front	/	22.74	23.5	0.244	0.29	0.05
20300	1745	50RB25	Front	/	22.18	23.0	0.212	0.26	0.05
20300	1745	1RB50	Rear	/	22.74	23.5	0.568	0.68	0.14
20300	1745	50RB25	Rear	/	22.18	23.0	0.471	0.57	0.07
20300	1745	1RB50	Left	/	22.74	23.5	0.073	0.09	0.09
20300	1745	50RB25	Left	/	22.18	23.0	0.066	0.08	0.15
20300	1745	1RB50	Right	/	22.74	23.5	0.100	0.12	0.01
20300	1745	50RB25	Right	/	22.18	23.0	0.091	0.11	0.08
20300	1745	1RB50	Bottom	/	22.74	23.5	0.675	0.80	0.06
20300	1745	50RB25	Bottom	/	22.18	23.0	0.604	0.73	0.07
20300	1745	1RB50	Bottom	B2	22.74	23.5	0.653	0.78	0.19
20300	1745	1RB50	Bottom	B3	22.74	23.5	0.651	0.78	-0.16
20300	1745	1RB50	Bottom	B4	22.74	23.5	0.643	0.77	0.12
Body-Worn Test Data (15mm) - Reduced power level 4									
20300	1745	1RB50	Front	/	22.74	23.5	0.150	0.18	0.07
20300	1745	50RB25	Front	/	22.18	23.0	0.129	0.16	0.10
20300	1745	1RB50	Rear	/	22.74	23.5	0.314	0.37	0.06
20300	1745	50RB25	Rear	/	22.18	23.0	0.270	0.33	0.01
Hotspot Test Data (10mm) - Reduced power level 6									
20300	1745	1RB50	Front	/	20.75	21.5	0.154	0.18	-0.13
20300	1745	50RB25	Front	/	20.76	21.5	0.133	0.16	0.11
20300	1745	1RB50	Rear	/	20.75	21.5	0.358	0.43	0.03
20300	1745	50RB25	Rear	/	20.76	21.5	0.297	0.35	-0.13
20300	1745	1RB50	Left	/	20.75	21.5	0.046	0.05	-0.07
20300	1745	50RB25	Left	/	20.76	21.5	0.042	0.05	0.12
20300	1745	1RB50	Right	/	20.75	21.5	0.063	0.07	0.11
20300	1745	50RB25	Right	/	20.76	21.5	0.057	0.07	-0.07
20300	1745	1RB50	Bottom	/	20.75	21.5	0.425	0.51	-0.10
20300	1745	50RB25	Bottom	/	20.76	21.5	0.380	0.45	0.14
Body-Worn Test Data (15mm) - Reduced power level 6									
20300	1745	1RB50	Front	/	20.75	21.5	0.098	0.12	-0.19
20300	1745	50RB25	Front	/	20.76	21.5	0.084	0.10	0.07
20300	1745	1RB50	Rear	/	20.75	21.5	0.205	0.24	0.09
20300	1745	50RB25	Rear	/	20.76	21.5	0.176	0.21	0.03



Table 13.29: SAR Values (LTE Band 7 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Reduced power level 1									
21100	2535	1RB50	Left Cheek	/	15.97	17.0	0.190	0.24	0.03
20850	2510	50RB50	Left Cheek	/	16.13	17.0	0.227	0.28	0.02
21100	2535	1RB50	Left Tilt	/	15.97	17.0	0.256	0.32	0.04
20850	2510	50RB50	Left Tilt	/	16.13	17.0	0.308	0.38	0.08
21100	2535	1RB50	Right Cheek	/	15.97	17.0	0.554	0.70	0.06
20850	2510	50RB50	Right Cheek	/	16.13	17.0	0.611	0.75	0.07
21100	2535	1RB50	Right Tilt	/	15.97	17.0	0.661	0.84	0.01
20850	2510	50RB50	Right Tilt	/	16.13	17.0	0.750	0.92	0.01
21350	2560	1RB50	Right Tilt	/	15.96	17.0	0.620	0.79	0.01
21100	2535	1RB50	Right Tilt	15	15.95	17.0	0.774	0.99	0.07
21350	2560	50RB25	Right Tilt	/	16.11	17.0	0.639	0.78	0.08
21100	2535	50RB50	Right Tilt	/	16.07	17.0	0.693	0.86	0.05
21100	2535	100RB	Right Tilt	/	16.01	17.0	0.722	0.91	0.09
21100	2535	1RB50	Right Tilt	B2	15.95	17.0	0.751	0.96	-0.14
21100	2535	1RB50	Right Tilt	B3	15.95	17.0	0.741	0.94	-0.15
21100	2535	1RB50	Right Tilt	B4	15.95	17.0	0.753	0.96	-0.18
Reduced power level 2									
21100	2535	1RB50	Left Cheek	/	15.03	16.0	0.186	0.23	-0.19
20850	2510	50RB50	Left Cheek	/	15.31	16.0	0.223	0.26	0.13
21100	2535	1RB50	Left Tilt	/	15.03	16.0	0.251	0.31	0.02
20850	2510	50RB50	Left Tilt	/	15.31	16.0	0.302	0.35	-0.12
21100	2535	1RB50	Right Cheek	/	15.03	16.0	0.524	0.66	-0.08
20850	2510	50RB50	Right Cheek	/	15.31	16.0	0.624	0.73	0.18
21100	2535	1RB50	Right Tilt	/	15.03	16.0	0.612	0.77	-0.14
20850	2510	50RB50	Right Tilt	/	15.31	16.0	0.674	0.79	-0.14



Table 13.30: SAR Values (LTE Band 7 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
20850	2510	1RB50	Left Cheek	/	22.80	24.0	0.173	0.23	0.02
20850	2510	50RB50	Left Cheek	/	21.89	23.0	0.136	0.18	0.12
20850	2510	1RB50	Left Tilt	/	22.80	24.0	0.136	0.18	-0.09
20850	2510	50RB50	Left Tilt	/	21.89	23.0	0.107	0.14	-0.11
20850	2510	1RB50	Right Cheek	/	22.80	24.0	0.262	0.35	0.03
20850	2510	50RB50	Right Cheek	/	21.89	23.0	0.186	0.24	-0.11
20850	2510	1RB50	Right Tilt	/	22.80	24.0	0.181	0.24	0.01
20850	2510	50RB50	Right Tilt	/	21.89	23.0	0.143	0.18	0.11
20850	2510	1RB50	Right Cheek	B2	22.80	24.0	0.258	0.34	-0.05
20850	2510	1RB50	Right Cheek	B3	22.80	24.0	0.251	0.33	-0.19
20850	2510	1RB50	Right Cheek	B4	22.80	24.0	0.249	0.33	0.16



Table 13.31: SAR Values (LTE Band 7 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Hotspot Test Data (10mm) - Reduced power level 3									
20850	2510	1RB50	Front	/	18.54	19.5	0.199	0.25	0.06
20850	2510	50RB50	Front	/	18.67	19.5	0.199	0.24	9.00
20850	2510	1RB50	Rear	/	18.54	19.5	0.664	0.83	0.00
20850	2510	50RB50	Rear	/	18.67	19.5	0.675	0.82	0.05
20850	2510	1RB50	Left	/	18.54	19.5	0.210	0.26	0.12
20850	2510	50RB50	Left	/	18.67	19.5	0.222	0.27	0.04
20850	2510	1RB50	Right	/	18.54	19.5	0.009	0.01	0.02
20850	2510	50RB50	Right	/	18.67	19.5	0.012	0.01	0.03
20850	2510	1RB50	Top	/	18.54	19.5	0.746	0.93	0.08
20850	2510	50RB50	Top	/	18.67	19.5	0.756	0.92	0.11
21350	2560	1RB50	Rear	/	18.52	19.5	0.525	0.66	0.01
21100	2535	1RB50	Rear	/	18.53	19.5	0.590	0.74	0.05
21350	2560	50RB25	Rear	/	18.59	19.5	0.530	0.65	0.07
21100	2535	50RB50	Rear	/	18.55	19.5	0.569	0.71	0.02
20850	2510	100RB	Rear	/	18.53	19.5	0.683	0.85	-0.02
21350	2560	1RB50	Top	/	18.52	19.5	0.443	0.56	0.07
21100	2535	1RB50	Top	/	18.53	19.5	0.600	0.75	0.13
21350	2560	50RB25	Top	/	18.59	19.5	0.448	0.55	0.10
21100	2535	50RB50	Top	/	18.55	19.5	0.553	0.69	0.14
20850	2510	100RB	Top	16	18.53	19.5	0.765	0.96	0.11
20850	2510	100RB	Top	B2	18.53	19.5	0.726	0.91	-0.05
20850	2510	100RB	Top	B3	18.53	19.5	0.750	0.94	0.09
20850	2510	100RB	Top	B4	18.53	19.5	0.721	0.90	0.19
Body-Worn Test Data (15mm) - Reduced power level 3									
20850	2510	1RB50	Front	/	18.54	19.5	0.104	0.13	0.13
20850	2510	50RB50	Front	/	18.67	19.5	0.105	0.13	0.02
20850	2510	1RB50	Rear	/	18.54	19.5	0.280	0.35	0.05
20850	2510	50RB50	Rear	/	18.67	19.5	0.281	0.34	0.06
Hotspot Test Data (10mm) - Reduced power level 5									
20850	2510	1RB50	Front	/	17.09	18.0	0.143	0.18	-0.10
20850	2510	50RB50	Front	/	17.11	18.0	0.143	0.18	0.00
20850	2510	1RB50	Rear	/	17.09	18.0	0.478	0.59	-0.12
20850	2510	50RB50	Rear	/	17.11	18.0	0.486	0.60	0.16
20850	2510	1RB50	Left	/	17.09	18.0	0.151	0.19	-0.14
20850	2510	50RB50	Left	/	17.11	18.0	0.160	0.20	-0.20
20850	2510	1RB50	Right	/	17.09	18.0	0.007	0.01	0.07
20850	2510	50RB50	Right	/	17.11	18.0	0.008	0.01	0.04



20850	2510	1RB50	Top	/	17.09	18.0	0.537	0.66	-0.11
20850	2510	50RB50	Top	/	17.11	18.0	0.544	0.67	-0.05
Body-Worn Test Data (15mm) - Reduced power level 5									
20850	2510	1RB50	Front	/	17.09	18.0	0.074	0.09	-0.10
20850	2510	50RB50	Front	/	17.11	18.0	0.074	0.09	-0.10
20850	2510	1RB50	Rear	/	17.09	18.0	0.198	0.24	0.12
20850	2510	50RB50	Rear	/	17.11	18.0	0.199	0.24	0.03



Table 13.32: SAR Values (LTE Band 7 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Hotspot Test Data (10mm)									
20850	2510	1RB50	Front	/	22.80	24.0	0.268	0.35	-0.07
20850	2510	50RB50	Front	/	21.89	23.0	0.214	0.28	-0.09
20850	2510	1RB50	Rear	/	22.80	24.0	0.502	0.66	0.18
20850	2510	50RB50	Rear	/	21.89	23.0	0.402	0.52	0.16
20850	2510	1RB50	Left	/	22.80	24.0	0.076	0.10	0.14
20850	2510	50RB50	Left	/	21.89	23.0	0.062	0.08	0.19
20850	2510	1RB50	Right	/	22.80	24.0	0.237	0.31	0.12
20850	2510	50RB50	Right	/	21.89	23.0	0.193	0.25	0.14
20850	2510	1RB50	Bottom	/	22.80	24.0	0.487	0.64	-0.18
20850	2510	50RB50	Bottom	/	21.89	23.0	0.381	0.49	-0.19
20850	2510	1RB50	Rear	B2	22.80	24.0	0.489	0.64	-0.13
20850	2510	1RB50	Rear	B3	22.80	24.0	0.479	0.63	0.02
20850	2510	1RB50	Rear	B4	22.80	24.0	0.486	0.64	-0.15
Body-Worn Test Data (15mm)									
20850	2510	1RB50	Front	/	22.80	24.0	0.180	0.24	0.05
20850	2510	50RB50	Front	/	21.89	23.0	0.142	0.18	0.09
20850	2510	1RB50	Rear	/	22.80	24.0	0.301	0.40	0.09
20850	2510	50RB50	Rear	/	21.89	23.0	0.224	0.29	0.03
Hotspot Test Data (10mm) - Reduced power level 6									
20850	2510	1RB50	Front	/	21.89	23.0	0.202	0.26	-0.08
20850	2510	50RB50	Front	/	21.97	23.0	0.162	0.21	-0.12
20850	2510	1RB50	Rear	/	21.89	23.0	0.379	0.49	-0.18
20850	2510	50RB50	Rear	/	21.97	23.0	0.304	0.39	0.16
20850	2510	1RB50	Left	/	21.89	23.0	0.057	0.07	-0.07
20850	2510	50RB50	Left	/	21.97	23.0	0.047	0.06	0.01
20850	2510	1RB50	Right	/	21.89	23.0	0.179	0.23	-0.13
20850	2510	50RB50	Right	/	21.97	23.0	0.146	0.19	0.00
20850	2510	1RB50	Bottom	/	21.89	23.0	0.368	0.48	-0.16
20850	2510	50RB50	Bottom	/	21.97	23.0	0.288	0.37	0.09
Body-Worn Test Data (15mm) - Reduced power level 6									
20850	2510	1RB50	Front	/	21.89	23.0	0.127	0.16	-0.18
20850	2510	50RB50	Front	/	21.97	23.0	0.100	0.13	-0.17
20850	2510	1RB50	Rear	/	21.89	23.0	0.212	0.27	0.12
20850	2510	50RB50	Rear	/	21.97	23.0	0.158	0.20	-0.02



Table 13.33: SAR Values (LTE Band 12 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
23095	707.5	1RB24	Left Cheek	/	23.33	24.0	0.056	0.07	0.01
23095	707.5	25RB25	Left Cheek	/	22.41	23.0	0.044	0.05	0.08
23095	707.5	1RB24	Left Tilt	/	23.33	24.0	0.058	0.07	-0.01
23095	707.5	25RB25	Left Tilt	/	22.41	23.0	0.044	0.05	0.13
23095	707.5	1RB24	Right Cheek	/	23.33	24.0	0.114	0.13	-0.05
23095	707.5	25RB25	Right Cheek	/	22.41	23.0	0.095	0.11	0.08
23095	707.5	1RB24	Right Tilt	/	23.33	24.0	0.098	0.11	0.09
23095	707.5	25RB25	Right Tilt	/	22.41	23.0	0.079	0.09	0.07
23095	707.5	1RB24	Right Cheek	B2	23.33	24.0	0.110	0.13	0.16
23095	707.5	1RB24	Right Cheek	B3	23.33	24.0	0.110	0.13	0.10
23095	707.5	1RB24	Right Cheek	B4	23.33	24.0	0.108	0.13	-0.16

Table 13.34: SAR Values (LTE Band 12 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
23060	704	1RB24	Left Cheek	17	23.13	24.0	0.240	0.29	-0.09
23060	704	25RB25	Left Cheek	/	22.21	23.0	0.197	0.24	0.15
23060	704	1RB24	Left Tilt	/	23.13	24.0	0.149	0.18	0.05
23060	704	25RB25	Left Tilt	/	22.21	23.0	0.122	0.15	0.13
23060	704	1RB24	Right Cheek	/	23.13	24.0	0.208	0.25	0.14
23060	704	25RB25	Right Cheek	/	22.21	23.0	0.171	0.21	0.03
23060	704	1RB24	Right Tilt	/	23.13	24.0	0.158	0.19	-0.08
23060	704	25RB25	Right Tilt	/	22.21	23.0	0.130	0.16	-0.10
23060	704	1RB24	Left Cheek	B2	23.13	24.0	0.231	0.28	-0.14
23060	704	1RB24	Left Cheek	B3	23.13	24.0	0.228	0.28	-0.10
23060	704	1RB24	Left Cheek	B4	23.13	24.0	0.232	0.28	-0.12

Note: SAR for LTE Band 17 is covered by LTE Band 12 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 13.35: SAR Values (LTE Band 12 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
23095	707.5	1RB24	Front	/	23.33	24.0	0.022	0.03	-0.01
23095	707.5	25RB25	Front	/	22.41	23.0	0.016	0.02	0.05
23095	707.5	1RB24	Rear	/	23.33	24.0	0.032	0.04	0.07
23095	707.5	25RB25	Rear	/	22.41	23.0	0.029	0.03	0.04
23095	707.5	1RB24	Left	/	23.33	24.0	0.020	0.02	0.04
23095	707.5	25RB25	Left	/	22.41	23.0	0.016	0.02	0.01
23095	707.5	1RB24	Right	/	23.33	24.0	0.016	0.02	0.02
23095	707.5	25RB25	Right	/	22.41	23.0	0.012	0.01	0.15
23095	707.5	1RB24	Top	/	23.33	24.0	0.014	0.02	-0.04
23095	707.5	25RB25	Top	/	22.41	23.0	0.012	0.01	0.07
23095	707.5	1RB24	Rear	B2	23.33	24.0	0.028	0.03	-0.19
23095	707.5	1RB24	Rear	B3	23.33	24.0	0.027	0.03	-0.09
23095	707.5	1RB24	Rear	B4	23.33	24.0	0.022	0.03	-0.04
Body-Worn Test Data (15mm)									
23095	707.5	1RB24	Front	/	23.33	24.0	0.017	0.02	0.08
23095	707.5	25RB25	Front	/	22.41	23.0	0.011	0.01	0.04
23095	707.5	1RB24	Rear	/	23.33	24.0	0.023	0.03	0.08
23095	707.5	25RB25	Rear	/	22.41	23.0	0.018	0.02	0.01

Note: SAR for LTE Band 17 is covered by LTE Band 12 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 13.36: SAR Values (LTE Band 12 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
23060	704	1RB24	Front	/	23.13	24.0	0.192	0.23	0.00
23060	704	25RB25	Front	/	22.21	23.0	0.149	0.18	0.02
23060	704	1RB24	Rear	/	23.13	24.0	0.252	0.31	0.03
23060	704	25RB25	Rear	/	22.21	23.0	0.187	0.22	0.04
23060	704	1RB24	Left	18	23.13	24.0	0.331	0.40	0.01
23060	704	25RB25	Left	/	22.21	23.0	0.262	0.31	-0.01
23060	704	1RB24	Right	/	23.13	24.0	0.061	0.07	0.01
23060	704	25RB25	Right	/	22.21	23.0	0.046	0.06	0.13
23060	704	1RB24	Bottom	/	23.13	24.0	0.116	0.14	-0.08
23060	704	25RB25	Bottom	/	22.21	23.0	0.092	0.11	-0.11
23060	704	1RB24	Left	B2	23.13	24.0	0.323	0.39	-0.15
23060	704	1RB24	Left	B3	23.13	24.0	0.315	0.38	-0.12
23060	704	1RB24	Left	B4	23.13	24.0	0.323	0.39	-0.05
Body-Worn Test Data (15mm)									
23060	704	1RB24	Front	/	23.13	24.0	0.143	0.17	0.02
23060	704	25RB25	Front	/	22.21	23.0	0.108	0.13	0.03
23060	704	1RB24	Rear	/	23.13	24.0	0.178	0.22	0.02
23060	704	25RB25	Rear	/	22.21	23.0	0.134	0.16	0.02

Note: SAR for LTE Band 17 is covered by LTE Band 12 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

Table 13.37: SAR Values (LTE Band 26 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
26865	831.5	1RB37	Left Cheek	/	23.26	24.0	0.509	0.60	-0.06
26775	822.5	36RB18	Left Cheek	/	22.21	23.0	0.385	0.46	0.02
26865	831.5	1RB37	Left Tilt	/	23.16	24.0	0.370	0.45	0.11
26775	822.5	36RB18	Left Tilt	/	22.21	23.0	0.288	0.35	0.06
26865	831.5	1RB37	Right Cheek	19	23.26	24.0	0.662	0.78	-0.04
26775	822.5	36RB18	Right Cheek	/	22.21	23.0	0.438	0.53	0.09
26865	831.5	1RB37	Right Tilt	/	23.16	24.0	0.561	0.68	0.07
26775	822.5	36RB18	Right Tilt	/	22.21	23.0	0.367	0.44	0.09
26865	831.5	1RB37	Right Cheek	B2	23.26	24.0	0.632	0.75	0.02
26865	831.5	1RB37	Right Cheek	B3	23.26	24.0	0.632	0.75	0.05
26865	831.5	1RB37	Right Cheek	B4	23.26	24.0	0.641	0.76	0.10

Table 13.38: SAR Values (LTE Band 26 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
26865	831.5	1RB37	Left Cheek	/	22.94	24.0	0.097	0.12	-0.14
26865	831.5	36RB38	Left Cheek	/	22.02	23.0	0.086	0.11	0.06
26865	831.5	1RB37	Left Tilt	/	22.94	24.0	0.070	0.09	-0.01
26865	831.5	36RB38	Left Tilt	/	22.02	23.0	0.062	0.08	0.15
26865	831.5	1RB37	Right Cheek	/	22.94	24.0	0.101	0.13	-0.14
26865	831.5	36RB38	Right Cheek	/	22.02	23.0	0.086	0.11	-0.07
26865	831.5	1RB37	Right Tilt	/	22.94	24.0	0.066	0.08	-0.09
26865	831.5	36RB38	Right Tilt	/	22.02	23.0	0.058	0.07	0.00
26865	831.5	1RB37	Right Cheek	B2	22.94	24.0	0.098	0.13	0.03
26865	831.5	1RB37	Right Cheek	B3	22.94	24.0	0.089	0.11	0.08
26865	831.5	1RB37	Right Cheek	B4	22.94	24.0	0.097	0.12	-0.09

Note: SAR for LTE Band 5/18/19 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 13.39: SAR Values (LTE Band 26 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
26865	831.5	1RB37	Front	/	23.26	24.0	0.144	0.17	-0.19
26775	822.5	36RB18	Front	/	22.21	23.0	0.093	0.11	0.16
26865	831.5	1RB37	Rear	/	23.26	24.0	0.220	0.26	0.04
26775	822.5	36RB18	Rear	/	22.21	23.0	0.161	0.19	0.00
26865	831.5	1RB37	Left	/	23.26	24.0	0.115	0.14	0.09
26775	822.5	36RB18	Left	/	22.21	23.0	0.085	0.10	0.09
26865	831.5	1RB37	Right	/	23.26	24.0	0.096	0.11	0.10
26775	822.5	36RB18	Right	/	22.21	23.0	0.069	0.08	0.08
26865	831.5	1RB37	Top	/	23.26	24.0	0.123	0.15	0.00
26775	822.5	36RB18	Top	/	22.21	23.0	0.083	0.10	0.06
26865	831.5	1RB37	Rear	B2	23.26	24.0	0.204	0.24	-0.02
26865	831.5	1RB37	Rear	B3	23.26	24.0	0.110	0.13	0.15
26865	831.5	1RB37	Rear	B4	23.26	24.0	0.215	0.25	0.08
Body-Worn Test Data (15mm)									
26865	831.5	1RB37	Front	/	23.26	24.0	0.099	0.12	0.04
26775	822.5	36RB18	Front	/	22.21	23.0	0.073	0.09	0.02
26865	831.5	1RB37	Rear	/	23.26	24.0	0.109	0.13	0.02
26775	822.5	36RB18	Rear	/	22.21	23.0	0.080	0.10	-0.01

Note: SAR for LTE Band 5/18/19 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 13.40: SAR Values (LTE Band 26 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C									
Hotspot Test Data (10mm)									
26865	831.5	1RB37	Front	/	22.94	24.0	0.160	0.20	0.03
26865	831.5	36RB38	Front	/	22.02	23.0	0.126	0.16	0.03
26865	831.5	1RB37	Rear	20	22.94	24.0	0.263	0.34	0.01
26865	831.5	36RB38	Rear	/	22.02	23.0	0.243	0.30	0.07
26865	831.5	1RB37	Left	/	22.94	24.0	0.213	0.27	0.00
26865	831.5	36RB38	Left	/	22.02	23.0	0.169	0.21	-0.01
26865	831.5	1RB37	Right	/	22.94	24.0	0.136	0.17	0.02
26865	831.5	36RB38	Right	/	22.02	23.0	0.106	0.13	0.03
26865	831.5	1RB37	Bottom	/	22.94	24.0	0.174	0.22	-0.07
26865	831.5	36RB38	Bottom	/	22.02	23.0	0.146	0.18	-0.08
26865	831.5	1RB37	Rear	B2	22.94	24.0	0.257	0.33	-0.06
26865	831.5	1RB37	Rear	B3	22.94	24.0	0.250	0.32	0.09
26865	831.5	1RB37	Rear	B4	22.94	24.0	0.254	0.32	-0.12
Body-Worn Test Data (15mm)									
26865	831.5	1RB37	Front	/	22.94	24.0	0.134	0.17	0.02
26865	831.5	36RB38	Front	/	22.02	23.0	0.108	0.14	0.05
26865	831.5	1RB37	Rear	/	22.94	24.0	0.192	0.25	-0.01
26865	831.5	36RB38	Rear	/	22.02	23.0	0.157	0.20	0.02

Note: SAR for LTE Band 5/18/19 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 13.41: SAR Values (LTE Band 38 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Reduced power level 1									
37850	2580	1RB50	Left Cheek	/	19.76	20.5	0.220	0.26	0.03
38000	2595	50RB25	Left Cheek	/	19.68	20.5	0.213	0.26	0.08
37850	2580	1RB50	Left Tilt	/	19.76	20.5	0.217	0.26	0.04
38000	2595	50RB25	Left Tilt	/	19.68	20.5	0.194	0.23	0.19
37850	2580	1RB50	Right Cheek	/	19.76	20.5	0.731	0.87	0.08
38000	2595	50RB25	Right Cheek	/	19.68	20.5	0.681	0.82	0.05
37850	2580	1RB50	Right Tilt	/	19.76	20.5	0.759	0.90	0.03
38000	2595	50RB25	Right Tilt	/	19.68	20.5	0.727	0.88	0.06
38150	2610	1RB50	Right Cheek	/	19.65	20.5	0.658	0.80	0.04
38000	2595	1RB50	Right Cheek	/	19.72	20.5	0.708	0.85	0.17
38150	2610	50RB0	Right Cheek	/	19.67	20.5	0.672	0.81	0.09
37850	2580	50RB25	Right Cheek	/	19.65	20.5	0.746	0.91	0.03
37850	2580	100RB	Right Cheek	/	19.76	20.5	0.693	0.82	0.09
38150	2610	1RB50	Right Tilt	/	19.65	20.5	0.685	0.83	0.04
38000	2595	1RB50	Right Tilt	/	19.72	20.5	0.738	0.88	0.07
38150	2610	50RB0	Right Tilt	/	19.67	20.5	0.696	0.84	0.01
37850	2580	50RB25	Right Tilt	21	19.65	20.5	0.785	0.95	0.09
37850	2580	100RB	Right Tilt	/	19.76	20.5	0.729	0.86	0.01
37850	2580	50RB25	Right Tilt	B2	19.65	20.5	0.766	0.93	0.20
37850	2580	50RB25	Right Tilt	B3	19.65	20.5	0.764	0.93	-0.08
37850	2580	50RB25	Right Tilt	B4	19.65	20.5	0.747	0.91	0.20
Reduced power level 2									
37850	2580	1RB50	Left Cheek	/	18.31	19.0	0.166	0.19	0.08
38000	2595	50RB25	Left Cheek	/	18.27	19.0	0.161	0.19	0.19
37850	2580	1RB50	Left Tilt	/	18.31	19.0	0.164	0.19	-0.11
38000	2595	50RB25	Left Tilt	/	18.27	19.0	0.147	0.17	-0.07
37850	2580	1RB50	Right Cheek	/	18.31	19.0	0.553	0.65	-0.09
38000	2595	50RB25	Right Cheek	/	18.27	19.0	0.515	0.61	-0.17
37850	2580	1RB50	Right Tilt	/	18.31	19.0	0.574	0.67	0.04
38000	2595	50RB25	Right Tilt	/	18.27	19.0	0.550	0.65	0.13



Table 13.42: SAR Values (LTE Band 38 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
37850	2580	1RB50	Left Cheek	/	22.87	24.0	0.108	0.14	-0.08
38000	2595	50RB25	Left Cheek	/	21.74	23.0	0.077	0.10	-0.08
37850	2580	1RB50	Left Tilt	/	22.87	24.0	0.020	0.03	0.09
38000	2595	50RB25	Left Tilt	/	21.74	23.0	0.014	0.02	0.13
37850	2580	1RB50	Right Cheek	/	22.87	24.0	0.182	0.24	0.10
38000	2595	50RB25	Right Cheek	/	21.74	23.0	0.129	0.17	-0.06
37850	2580	1RB50	Right Tilt	/	22.87	24.0	0.094	0.12	-0.01
38000	2595	50RB25	Right Tilt	/	21.74	23.0	0.067	0.09	0.05
37850	2580	1RB50	Right Cheek	B2	22.87	24.0	0.176	0.23	0.18
37850	2580	1RB50	Right Cheek	B3	22.87	24.0	0.177	0.23	-0.14
37850	2580	1RB50	Right Cheek	B4	22.87	24.0	0.171	0.22	-0.09



Table 13.43: SAR Values (LTE Band 38 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Hotspot Test Data (10mm) - Reduced power level 3									
38150	2610	1RB50	Front	/	22.58	23.5	0.272	0.34	0.06
37850	2580	50RB50	Front	/	22.02	23.0	0.250	0.31	0.19
38150	2610	1RB50	Rear	22	22.58	23.5	0.617	0.76	0.01
37850	2580	50RB50	Rear	/	22.02	23.0	0.604	0.76	0.02
38150	2610	1RB50	Left	/	22.58	23.5	0.411	0.51	-0.01
37850	2580	50RB50	Left	/	22.02	23.0	0.390	0.49	-0.01
38150	2610	1RB50	Right	/	22.58	23.5	0.012	0.01	0.02
37850	2580	50RB50	Right	/	22.02	23.0	0.009	0.01	0.04
38150	2610	1RB50	Top	/	22.58	23.5	0.539	0.67	0.17
37850	2580	50RB50	Top	/	22.02	23.0	0.531	0.67	-0.06
38150	2610	1RB50	Rear	B2	22.58	23.5	0.601	0.74	-0.11
38150	2610	1RB50	Rear	B3	22.58	23.5	0.605	0.75	0.14
38150	2610	1RB50	Rear	B4	22.58	23.5	0.591	0.73	-0.03
Body-Worn Test Data (15mm) - Reduced power level 3									
38150	2610	1RB50	Front	/	22.58	23.5	0.160	0.20	0.06
37850	2580	50RB50	Front	/	22.02	23.0	0.144	0.18	0.19
38150	2610	1RB50	Rear	/	22.58	23.5	0.250	0.31	0.02
37850	2580	50RB50	Rear	/	22.02	23.0	0.209	0.26	0.01
Hotspot Test Data (10mm) - Reduced power level 5									
38150	2610	1RB50	Front	/	21.03	22.0	0.204	0.26	0.03
37850	2580	50RB50	Front	/	20.93	22.0	0.187	0.24	0.12
38150	2610	1RB50	Rear	/	21.03	22.0	0.452	0.57	0.01
37850	2580	50RB50	Rear	/	20.93	22.0	0.462	0.59	0.09
38150	2610	1RB50	Left	/	21.03	22.0	0.308	0.39	0.10
37850	2580	50RB50	Left	/	20.93	22.0	0.292	0.37	-0.05
38150	2610	1RB50	Right	/	21.03	22.0	0.009	0.01	0.05
37850	2580	50RB50	Right	/	20.93	22.0	0.007	0.01	0.03
38150	2610	1RB50	Top	/	21.03	22.0	0.398	0.50	-0.07
37850	2580	50RB50	Top	/	20.93	22.0	0.404	0.52	0.19
Body-Worn Test Data (15mm) - Reduced power level 5									
38150	2610	1RB50	Front	/	21.03	22.0	0.123	0.15	-0.18
37850	2580	50RB50	Front	/	20.93	22.0	0.111	0.14	0.16
38150	2610	1RB50	Rear	/	21.03	22.0	0.192	0.24	-0.01
37850	2580	50RB50	Rear	/	20.93	22.0	0.161	0.21	0.03



Table 13.44: SAR Values (LTE Band 38 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Hotspot Test Data (10mm)									
37850	2580	1RB50	Front	/	22.87	24.0	0.166	0.22	0.14
38000	2595	50RB25	Front	/	21.74	23.0	0.127	0.17	0.09
37850	2580	1RB50	Rear	/	22.87	24.0	0.372	0.48	0.06
38000	2595	50RB25	Rear	/	21.74	23.0	0.299	0.40	0.12
37850	2580	1RB50	Left	/	22.87	24.0	0.041	0.05	-0.11
38000	2595	50RB25	Left	/	21.74	23.0	0.033	0.04	0.05
37850	2580	1RB50	Right	/	22.87	24.0	0.171	0.22	0.06
38000	2595	50RB25	Right	/	21.74	23.0	0.132	0.18	0.11
37850	2580	1RB50	Bottom	/	22.87	24.0	0.285	0.37	-0.19
38000	2595	50RB25	Bottom	/	21.74	23.0	0.220	0.29	-0.12
37850	2580	1RB50	Rear	B2	22.87	24.0	0.362	0.47	0.15
37850	2580	1RB50	Rear	B3	22.87	24.0	0.364	0.47	0.10
37850	2580	1RB50	Rear	B4	22.87	24.0	0.350	0.45	-0.05
Body-Worn Test Data (15mm)									
37850	2580	1RB50	Front	/	22.87	24.0	0.110	0.14	0.13
38000	2595	50RB25	Front	/	21.74	23.0	0.082	0.11	0.07
37850	2580	1RB50	Rear	/	22.87	24.0	0.186	0.24	0.09
38000	2595	50RB25	Rear	/	21.74	23.0	0.151	0.20	0.05



Table 13.45: SAR Values (LTE Band 41 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Reduced power level 1									
41140	2645	1RB50	Left Cheek	/	19.29	20.0	0.138	0.16	0.03
41140	2645	50RB25	Left Cheek	/	19.28	20.0	0.136	0.16	0.05
41140	2645	1RB50	Left Tilt	/	19.29	20.0	0.122	0.14	0.05
41140	2645	50RB25	Left Tilt	/	19.28	20.0	0.121	0.14	0.01
41140	2645	1RB50	Right Cheek	/	19.29	20.0	0.428	0.50	0.02
41140	2645	50RB25	Right Cheek	/	19.28	20.0	0.419	0.49	0.11
41140	2645	1RB50	Right Tilt	23	19.29	20.0	0.523	0.62	0.01
41140	2645	50RB25	Right Tilt	/	19.28	20.0	0.460	0.54	0.06
41140	2645	1RB50	Right Tilt	B2	19.29	20.0	0.507	0.60	0.03
41140	2645	1RB50	Right Tilt	B3	19.29	20.0	0.496	0.58	0.04
41140	2645	1RB50	Right Tilt	B4	19.29	20.0	0.509	0.60	0.08
Reduced power level 2									
41140	2645	1RB50	Left Cheek	/	17.82	18.5	0.095	0.11	0.11
41140	2645	50RB25	Left Cheek	/	17.84	18.5	0.093	0.11	0.14
41140	2645	1RB50	Left Tilt	/	17.82	18.5	0.084	0.10	-0.13
41140	2645	50RB25	Left Tilt	/	17.84	18.5	0.083	0.10	0.05
41140	2645	1RB50	Right Cheek	/	17.82	18.5	0.293	0.34	0.07
41140	2645	50RB25	Right Cheek	/	17.84	18.5	0.287	0.33	0.08
41140	2645	1RB50	Right Tilt	/	17.82	18.5	0.358	0.42	-0.10
41140	2645	50RB25	Right Tilt	/	17.84	18.5	0.315	0.37	0.09



Table 13.46: SAR Values (LTE Band 41 - Head) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
41140	2645	1RB50	Left Cheek	/	22.80	24.0	0.161	0.21	0.08
41140	2645	50RB0	Left Cheek	/	21.70	23.0	0.133	0.18	-0.13
41140	2645	1RB50	Left Tilt	/	22.80	24.0	0.135	0.18	-0.15
41140	2645	50RB0	Left Tilt	/	21.70	23.0	0.111	0.15	-0.14
41140	2645	1RB50	Right Cheek	/	22.80	24.0	0.233	0.31	0.09
41140	2645	50RB0	Right Cheek	/	21.70	23.0	0.192	0.26	0.00
41140	2645	1RB50	Right Tilt	/	22.80	24.0	0.145	0.19	0.14
41140	2645	50RB0	Right Tilt	/	21.70	23.0	0.119	0.16	0.04
41140	2645	1RB50	Right Cheek	B2	22.80	24.0	0.226	0.30	0.16
41140	2645	1RB50	Right Cheek	B3	22.80	24.0	0.222	0.29	0.04
41140	2645	1RB50	Right Cheek	B4	22.80	24.0	0.221	0.29	0.00



Table 13.47: SAR Values (LTE Band 41 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Hotspot Test Data (10mm) - Reduced power level 3									
41140	2645	1RB50	Front	/	21.62	22.5	0.192	0.24	0.03
41140	2645	50RB25	Front	/	21.59	22.5	0.188	0.23	0.10
41140	2645	1RB50	Rear	/	21.62	22.5	0.449	0.55	0.05
41140	2645	50RB25	Rear	/	21.59	22.5	0.439	0.54	0.06
41140	2645	1RB50	Left	/	21.62	22.5	0.295	0.36	0.09
41140	2645	50RB25	Left	/	21.59	22.5	0.291	0.36	0.01
41140	2645	1RB50	Right	/	21.62	22.5	0.010	0.01	-0.03
41140	2645	50RB25	Right	/	21.59	22.5	0.009	0.01	0.04
41140	2645	1RB50	Top	/	21.62	22.5	0.250	0.31	0.06
41140	2645	50RB25	Top	/	21.59	22.5	0.248	0.31	0.02
41140	2645	1RB50	Rear	B2	21.62	22.5	0.436	0.53	0.15
41140	2645	1RB50	Rear	B3	21.62	22.5	0.423	0.52	-0.08
41140	2645	1RB50	Rear	B4	21.62	22.5	0.431	0.53	0.06
Body-Worn Test Data (15mm) - Reduced power level 3									
41140	2645	1RB50	Front	/	21.62	22.5	0.126	0.15	0.02
41140	2645	50RB25	Front	/	21.59	22.5	0.123	0.15	0.02
41140	2645	1RB50	Rear	/	21.62	22.5	0.176	0.22	0.04
41140	2645	50RB25	Rear	/	21.59	22.5	0.171	0.21	0.05
Hotspot Test Data (10mm) - Reduced power level 5									
41140	2645	1RB50	Front	/	20.07	21.0	0.132	0.16	0.14
41140	2645	50RB25	Front	/	19.99	21.0	0.129	0.16	-0.01
41140	2645	1RB50	Rear	/	20.07	21.0	0.308	0.38	0.14
41140	2645	50RB25	Rear	/	19.99	21.0	0.301	0.38	0.15
41140	2645	1RB50	Left	/	20.07	21.0	0.202	0.25	-0.10
41140	2645	50RB25	Left	/	19.99	21.0	0.200	0.25	-0.01
41140	2645	1RB50	Right	/	20.07	21.0	0.007	0.01	0.06
41140	2645	50RB25	Right	/	19.99	21.0	0.006	0.01	-0.12
41140	2645	1RB50	Top	/	20.07	21.0	0.171	0.21	-0.04
41140	2645	50RB25	Top	/	19.99	21.0	0.170	0.21	0.14
Body-Worn Test Data (15mm) - Reduced power level 5									
41140	2645	1RB50	Front	/	20.07	21.0	0.099	0.12	-0.06
41140	2645	50RB25	Front	/	19.99	21.0	0.096	0.12	0.06
41140	2645	1RB50	Rear	/	20.07	21.0	0.138	0.17	0.15
41140	2645	50RB25	Rear	/	19.99	21.0	0.134	0.17	0.01



Table 13.48: SAR Values (LTE Band 41 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.1°C Liquid Temperature: 21.6°C									
Hotspot Test Data (10mm)									
41140	2645	1RB50	Front	/	22.80	24.0	0.173	0.23	0.00
41140	2645	50RB0	Front	/	21.70	23.0	0.136	0.18	0.03
41140	2645	1RB50	Rear	24	22.80	24.0	0.478	0.63	0.12
41140	2645	50RB0	Rear	/	21.70	23.0	0.349	0.47	0.05
41140	2645	1RB50	Left	/	22.80	24.0	0.046	0.06	0.18
41140	2645	50RB0	Left	/	21.70	23.0	0.039	0.05	0.02
41140	2645	1RB50	Right	/	22.80	24.0	0.161	0.21	0.09
41140	2645	50RB0	Right	/	21.70	23.0	0.129	0.17	0.09
41140	2645	1RB50	Bottom	/	22.80	24.0	0.293	0.39	-0.16
41140	2645	50RB0	Bottom	/	21.70	23.0	0.231	0.31	-0.14
41140	2645	1RB50	Rear	B2	22.80	24.0	0.456	0.60	0.07
41140	2645	1RB50	Rear	B3	22.80	24.0	0.461	0.61	0.14
41140	2645	1RB50	Rear	B4	22.80	24.0	0.457	0.60	0.03
Body-Worn Test Data (15mm)									
41140	2645	1RB50	Front	/	22.80	24.0	0.100	0.13	0.09
41140	2645	50RB0	Front	/	21.70	23.0	0.078	0.11	0.08
41140	2645	1RB50	Rear	/	22.80	24.0	0.229	0.30	0.00
41140	2645	50RB0	Rear	/	21.70	23.0	0.177	0.24	0.17



Table 13.49: SAR Values (LTE Band 66 - Head) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Reduced power level 1									
132322	1745	1RB50	Left Cheek	/	19.01	19.5	0.572	0.64	-0.05
132322	1745	50RB25	Left Cheek	/	18.98	19.5	0.574	0.65	0.09
132322	1745	1RB50	Left Tilt	/	19.01	19.5	0.664	0.74	0.17
132322	1745	50RB25	Left Tilt	/	18.98	19.5	0.663	0.75	0.09
132322	1745	1RB50	Right Cheek	/	19.01	19.5	0.825	0.92	-0.04
132322	1745	50RB25	Right Cheek	/	18.98	19.5	0.896	1.01	-0.06
132322	1745	1RB50	Right Tilt	/	19.01	19.5	0.944	1.06	0.03
132322	1745	50RB25	Right Tilt	/	18.98	19.5	0.951	1.07	0.14
132572	1770	1RB50	Right Cheek	/	18.91	19.5	0.863	0.99	-0.17
132072	1720	1RB50	Right Cheek	/	18.91	19.5	0.766	0.88	0.05
132572	1770	50RB25	Right Cheek	/	18.95	19.5	0.883	1.00	-0.10
132072	1720	50RB25	Right Cheek	/	18.87	19.5	0.760	0.88	-0.20
132572	1770	1RB50	Right Tilt	/	18.91	19.5	0.988	1.13	-0.14
132072	1720	1RB50	Right Tilt	/	18.91	19.5	0.877	1.00	-0.14
132572	1770	50RB25	Right Tilt	25	18.95	19.5	1.010	1.15	-0.04
132072	1720	50RB25	Right Tilt	/	18.87	19.5	0.870	1.01	0.09
132322	1745	100RB	Right Tilt	/	18.97	19.5	0.929	1.05	-0.04
132572	1770	50RB25	Right Tilt	SIM2	18.95	19.5	0.995	1.13	0.08
132572	1770	50RB25	Right Tilt	B2	18.95	19.5	0.961	1.09	0.02
132572	1770	50RB25	Right Tilt	B3	18.95	19.5	0.985	1.12	0.00
132572	1770	50RB25	Right Tilt	B4	18.95	19.5	0.982	1.11	0.10
Reduced power level 2									
132322	1745	1RB50	Left Cheek	/	17.98	18.5	0.606	0.68	0.16
132322	1745	50RB25	Left Cheek	/	17.96	18.5	0.608	0.69	0.01
132322	1745	1RB50	Left Tilt	/	17.98	18.5	0.668	0.75	-0.08
132322	1745	50RB25	Left Tilt	/	17.96	18.5	0.687	0.78	0.08
132322	1745	1RB50	Right Cheek	/	17.98	18.5	0.743	0.84	0.00
132322	1745	50RB25	Right Cheek	/	17.96	18.5	0.750	0.85	0.00
132322	1745	1RB50	Right Tilt	/	17.98	18.5	0.775	0.87	0.12
132322	1745	50RB25	Right Tilt	/	17.96	18.5	0.781	0.88	0.03
132572	1770	1RB50	Right Cheek	/	17.93	18.5	0.778	0.89	-0.09
132072	1720	1RB50	Right Cheek	/	17.89	18.5	0.688	0.79	-0.18
132572	1770	50RB25	Right Cheek	/	17.95	18.5	0.791	0.90	0.13
132072	1720	50RB25	Right Cheek	/	17.91	18.5	0.731	0.84	0.15
132572	1770	1RB50	Right Tilt	/	17.93	18.5	0.731	0.83	-0.16
132072	1720	1RB50	Right Tilt	/	17.89	18.5	0.718	0.83	-0.07
132572	1770	50RB25	Right Tilt	/	17.95	18.5	0.825	0.94	0.15



132072	1720	50RB25	Right Tilt	/	17.91	18.5	0.762	0.87	0.00
132322	1745	100RB	Right Tilt	/	18.01	18.5	0.762	0.85	0.20

Table 13.50: SAR Values (LTE Band 66 - Head) – Bottom Antenna

Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
132322	1745	1RB50	Left Cheek	/	23.10	24.0	0.137	0.17	-0.07
132322	1745	50RB25	Left Cheek	/	22.17	23.0	0.104	0.13	0.04
132322	1745	1RB50	Left Tilt	/	23.10	24.0	0.056	0.07	0.08
132322	1745	50RB25	Left Tilt	/	22.17	23.0	0.043	0.05	-0.11
132322	1745	1RB50	Right Cheek	/	23.10	24.0	0.093	0.11	0.05
132322	1745	50RB25	Right Cheek	/	22.17	23.0	0.071	0.09	-0.05
132322	1745	1RB50	Right Tilt	/	23.10	24.0	0.069	0.08	0.03
132322	1745	50RB25	Right Tilt	/	22.17	23.0	0.053	0.06	0.14
132322	1745	1RB50	Left Cheek	B2	23.10	24.0	0.131	0.16	0.12
132322	1745	1RB50	Left Cheek	B3	23.10	24.0	0.130	0.16	-0.03
132322	1745	1RB50	Left Cheek	B4	23.10	24.0	0.132	0.16	0.04



Table 13.51: SAR Values (LTE Band 66 - Body) – Top Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Hotspot Test Data (10mm) - Reduced power level 3									
132322	1745	1RB50	Front	/	23.04	23.5	0.468	0.52	0.10
132322	1745	50RB25	Front	/	22.57	23.0	0.422	0.47	0.10
132322	1745	1RB50	Rear	/	23.04	23.5	0.672	0.75	0.09
132322	1745	50RB25	Rear	/	22.57	23.0	0.567	0.63	0.09
132322	1745	1RB50	Left	/	23.04	23.5	0.170	0.19	0.10
132322	1745	50RB25	Left	/	22.57	23.0	0.153	0.17	30.06
132322	1745	1RB50	Right	/	23.04	23.5	0.104	0.12	0.02
132322	1745	50RB25	Right	/	22.57	23.0	0.092	0.10	0.16
132322	1745	1RB50	Top	26	23.04	23.5	0.806	0.90	0.10
132322	1745	50RB25	Top	/	22.57	23.0	0.701	0.77	0.08
132572	1770	1RB50	Top	/	22.94	23.5	0.790	0.90	0.14
132072	1720	1RB50	Top	/	23.00	23.5	0.720	0.81	0.13
132322	1745	100RB	Top	/	22.51	23.0	0.679	0.76	0.13
132322	1745	1RB50	Top	B2	23.04	23.5	0.785	0.87	0.16
132322	1745	1RB50	Top	B3	23.04	23.5	0.787	0.87	0.05
132322	1745	1RB50	Top	B4	23.04	23.5	0.783	0.87	0.18
Body-Worn Test Data (15mm) - Reduced power level 3									
132322	1745	1RB50	Front	/	23.04	23.5	0.261	0.29	0.00
132322	1745	50RB25	Front	/	22.57	23.0	0.236	0.26	0.05
132322	1745	1RB50	Rear	/	23.04	23.5	0.330	0.37	0.13
132322	1745	50RB25	Rear	/	22.57	23.0	0.296	0.33	0.15
Hotspot Test Data (10mm) - Reduced power level 5									
132322	1745	1RB50	Front	/	21.44	22.0	0.325	0.37	0.19
132322	1745	50RB25	Front	/	21.47	22.0	0.293	0.33	-0.02
132322	1745	1RB50	Rear	/	21.44	22.0	0.467	0.53	0.07
132322	1745	50RB25	Rear	/	21.47	22.0	0.394	0.45	-0.19
132322	1745	1RB50	Left	/	21.44	22.0	0.118	0.13	0.15
132322	1745	50RB25	Left	/	21.47	22.0	0.106	0.12	0.09
132322	1745	1RB50	Right	/	21.44	22.0	0.072	0.08	0.09
132322	1745	50RB25	Right	/	21.47	22.0	0.064	0.07	-0.04
132322	1745	1RB50	Top	/	21.44	22.0	0.560	0.64	0.08
132322	1745	50RB25	Top	/	21.47	22.0	0.487	0.55	-0.08
Body-Worn Test Data (15mm) - Reduced power level 5									
132322	1745	1RB50	Front	/	21.44	22.0	0.187	0.21	0.11
132322	1745	50RB25	Front	/	21.47	22.0	0.169	0.19	0.12
132322	1745	1RB50	Rear	/	21.44	22.0	0.236	0.27	-0.11
132322	1745	50RB25	Rear	/	21.47	22.0	0.212	0.24	0.04



Table 13.52: SAR Values (LTE Band 66 - Body) – Bottom Antenna

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.3°C									
Hotspot Test Data (10mm) - Reduced power level 4									
132322	1745	1RB50	Front	/	22.15	23.0	0.214	0.26	0.07
132322	1745	50RB25	Front	/	22.19	23.0	0.208	0.25	0.16
132322	1745	1RB50	Rear	/	22.15	23.0	0.496	0.60	0.11
132322	1745	50RB25	Rear	/	22.19	23.0	0.484	0.58	0.03
132322	1745	1RB50	Left	/	22.15	23.0	0.065	0.08	0.05
132322	1745	50RB25	Left	/	22.19	23.0	0.065	0.08	-0.01
132322	1745	1RB50	Right	/	22.15	23.0	0.088	0.11	0.12
132322	1745	50RB25	Right	/	22.19	23.0	0.089	0.11	-0.03
132322	1745	1RB50	Bottom	/	22.15	23.0	0.587	0.71	0.06
132322	1745	50RB25	Bottom	/	22.19	23.0	0.601	0.72	0.08
132322	1745	50RB25	Bottom	B2	22.19	23.0	0.568	0.68	-0.12
132322	1745	50RB25	Bottom	B3	22.19	23.0	0.580	0.70	0.11
132322	1745	50RB25	Bottom	B4	22.19	23.0	0.585	0.70	-0.11
Body-Worn Test Data (15mm) - Reduced power level 4									
132322	1745	1RB50	Front	/	22.15	23.0	0.142	0.17	0.18
132322	1745	50RB25	Front	/	22.19	23.0	0.137	0.17	-0.09
132322	1745	1RB50	Rear	/	22.15	23.0	0.271	0.33	0.09
132322	1745	50RB25	Rear	/	22.19	23.0	0.267	0.32	0.01
Hotspot Test Data (10mm) - Reduced power level 6									
132322	1745	1RB50	Front	/	20.78	21.5	0.149	0.18	0.00
132322	1745	50RB25	Front	/	20.67	21.5	0.145	0.18	-0.18
132322	1745	1RB50	Rear	/	20.78	21.5	0.346	0.41	-0.14
132322	1745	50RB25	Rear	/	20.67	21.5	0.337	0.41	0.16
132322	1745	1RB50	Left	/	20.78	21.5	0.045	0.05	0.13
132322	1745	50RB25	Left	/	20.67	21.5	0.045	0.05	-0.04
132322	1745	1RB50	Right	/	20.78	21.5	0.061	0.07	-0.05
132322	1745	50RB25	Right	/	20.67	21.5	0.062	0.08	-0.12
132322	1745	1RB50	Bottom	/	20.78	21.5	0.409	0.48	-0.08
132322	1745	50RB25	Bottom	/	20.67	21.5	0.419	0.51	-0.17
Body-Worn Test Data (15mm) - Reduced power level 6									
132322	1745	1RB50	Front	/	20.78	21.5	0.105	0.12	-0.11
132322	1745	50RB25	Front	/	20.67	21.5	0.102	0.12	-0.13
132322	1745	1RB50	Rear	/	20.78	21.5	0.201	0.24	0.06
132322	1745	50RB25	Rear	/	20.67	21.5	0.198	0.24	0.14

**Table 13.53: SAR Values (Bluetooth - Head)**

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
78	2480	GFSK	Left Cheek	27	8.05	10.0	0.135	0.21	0.02
78	2480	GFSK	Left Tilt	/	8.05	10.0	0.091	0.14	0.06
78	2480	GFSK	Right Cheek	/	8.05	10.0	0.101	0.16	0.11
78	2480	GFSK	Right Tilt	/	8.05	10.0	0.086	0.13	0.10
78	2480	GFSK	Left Cheek	B2	8.05	10.0	0.129	0.20	0.08
78	2480	GFSK	Left Cheek	B3	8.05	10.0	0.117	0.18	0.05
78	2480	GFSK	Left Cheek	B4	8.05	10.0	0.120	0.19	0.03

13.3. WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

Table 13.54: SAR Values (WLAN 2.4G - Head)

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C									
Reduced power level 7									
6	2437	802.11b	Left Cheek	/	16.29	17.5	0.637	0.84	0.03
6	2437	802.11b	Left Tilt	/	16.29	17.5	0.531	0.70	0.05
6	2437	802.11b	Right Cheek	/	16.29	17.5	0.281	0.37	0.13
6	2437	802.11b	Right Tilt	/	16.29	17.5	0.246	0.33	0.10
2	2417	802.11b	Left Cheek	28	16.07	17.5	0.696	0.97	0.04
2	2417	802.11b	Left Cheek	B2	16.07	17.5	0.684	0.95	0.08
2	2417	802.11b	Left Cheek	B3	16.07	17.5	0.672	0.93	0.12
2	2417	802.11b	Left Cheek	B4	16.07	17.5	0.665	0.92	0.07
Reduced power level 8									
6	2437	802.11b	Left Cheek	/	14.36	15.5	0.420	0.55	0.14
6	2437	802.11b	Left Tilt	/	14.36	15.5	0.350	0.46	0.20
6	2437	802.11b	Right Cheek	/	14.36	15.5	0.185	0.24	0.19
6	2437	802.11b	Right Tilt	/	14.36	15.5	0.162	0.21	0.00

Note1: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

Table 13.55: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
2	2417	Left Cheek	100%	100%	0.97	0.97

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

Table 13.56: SAR Values (WLAN 2.4G - Body)

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C									
Test Data (10mm)									
6	2437	802.11b	Front	/	18.80	20.0	0.209	0.28	0.19
6	2437	802.11b	Rear	29	18.80	20.0	0.332	0.44	0.07
6	2437	802.11b	Left	/	18.80	20.0	0.034	0.04	0.01
6	2437	802.11b	Right	/	18.80	20.0	0.245	0.32	0.04
6	2437	802.11b	Top	/	18.80	20.0	0.210	0.28	-0.01
6	2437	802.11b	Rear	B2	18.80	20.0	0.328	0.43	0.05
6	2437	802.11b	Rear	B3	18.80	20.0	0.316	0.42	0.07
6	2437	802.11b	Rear	B4	18.80	20.0	0.320	0.42	0.09

Note1: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit..

Table 13.57: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
6	2437	Rear	100%	100%	0.44	0.44

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

13.4. WLAN Evaluation for 5G

Table 13.58: SAR Values (WLAN 5G - Head)

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.2°C									
U-NII-2A - Reduced power level 7									
58	5290	11ac 80M	Left Cheek	/	11.29	13.0	0.375	0.56	-0.03
58	5290	11ac 80M	Left Tilt	/	11.29	13.0	0.420	0.62	0.07
58	5290	11ac 80M	Right Cheek	/	11.29	13.0	0.157	0.23	0.05
58	5290	11ac 80M	Right Tilt	/	11.29	13.0	0.256	0.38	0.06
U-NII-2C - Reduced power level 7									
106	5530	11ac 80M	Left Cheek	/	11.28	13.0	0.283	0.42	0.09
106	5530	11ac 80M	Left Tilt	/	11.28	13.0	0.348	0.52	-0.08
106	5530	11ac 80M	Right Cheek	/	11.28	13.0	0.292	0.43	0.04
106	5530	11ac 80M	Right Tilt	/	11.28	13.0	0.305	0.45	0.03
U-NII-3 - Reduced power level 7									
155	5775	11ac 80M	Left Cheek	/	11.23	13.0	0.360	0.54	0.02
155	5775	11ac 80M	Left Tilt	/	11.23	13.0	0.359	0.54	0.08
155	5775	11ac 80M	Right Cheek	/	11.23	13.0	0.411	0.62	-0.05
155	5775	11ac 80M	Right Tilt	30	11.23	13.0	0.450	0.68	0.07
155	5775	11ac 80M	Right Tilt	B2	11.23	13.0	0.442	0.66	0.08
155	5775	11ac 80M	Right Tilt	B3	11.23	13.0	0.432	0.65	0.02
155	5775	11ac 80M	Right Tilt	B4	11.23	13.0	0.439	0.66	0.04

Note1: U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

Table 13.59: SAR Values (WLAN 5G - Head)

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.2°C									
U-NII-2A - Reduced power level 8									
58	5290	11ac 80M	Left Cheek	/	8.27	10.0	0.147	0.22	0.04
58	5290	11ac 80M	Left Tilt	/	8.27	10.0	0.183	0.27	0.03
58	5290	11ac 80M	Right Cheek	/	8.27	10.0	0.091	0.14	-0.14
58	5290	11ac 80M	Right Tilt	/	8.27	10.0	0.112	0.17	-0.03
U-NII-2C - Reduced power level 8									
106	5530	11ac 80M	Left Cheek	/	8.22	10.0	0.123	0.19	-0.08
106	5530	11ac 80M	Left Tilt	/	8.22	10.0	0.151	0.23	0.13
106	5530	11ac 80M	Right Cheek	/	8.22	10.0	0.127	0.19	-0.07
106	5530	11ac 80M	Right Tilt	/	8.22	10.0	0.132	0.20	-0.05
U-NII-3 - Reduced power level 8									
155	5775	11ac 80M	Left Cheek	/	8.19	10.0	0.174	0.26	0.02
155	5775	11ac 80M	Left Tilt	/	8.19	10.0	0.173	0.26	-0.11
155	5775	11ac 80M	Right Cheek	/	8.19	10.0	0.170	0.26	0.06
155	5775	11ac 80M	Right Tilt	/	8.19	10.0	0.193	0.29	0.07

Note1: U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

Table 13.60: SAR Values (WLAN - Head) – 11ac-80M (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
155	5775	Right Tilt	100%	100%	0.68	0.68

Table 13.61: SAR Values (WLAN 5G - Body)

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.2°C									
U-NII-2A Test Data (10mm)									
54	5270	11n 40M	Front	/	14.15	16.0	0.206	0.32	0.09
54	5270	11n 40M	Rear	/	14.15	16.0	0.356	0.55	0.10
54	5270	11n 40M	Left	/	14.15	16.0	0.043	0.07	0.06
54	5270	11n 40M	Right	/	14.15	16.0	0.250	0.38	0.05
54	5270	11n 40M	Top	/	14.15	16.0	0.456	0.70	-0.03
U-NII-2C Test Data (10mm)									
122	5610	11ac 80M	Front	/	14.01	16.0	0.265	0.42	0.13
122	5610	11ac 80M	Rear	/	14.01	16.0	0.331	0.52	0.01
122	5610	11ac 80M	Left	/	14.01	16.0	0.023	0.04	0.15
122	5610	11ac 80M	Right	/	14.01	16.0	0.159	0.25	0.11
122	5610	11ac 80M	Top	31	14.01	16.0	0.487	0.77	0.09
122	5610	11ac 80M	Top	B2	14.01	16.0	0.465	0.74	0.03
122	5610	11ac 80M	Top	B3	14.01	16.0	0.449	0.71	0.07
122	5610	11ac 80M	Top	B4	14.01	16.0	0.457	0.72	0.10
U-NII-3 Test Data (10mm)									
155	5775	11ac 80M	Front	/	14.01	16.0	0.236	0.37	0.09
155	5775	11ac 80M	Rear	/	14.01	16.0	0.243	0.38	0.05
155	5775	11ac 80M	Left	/	14.01	16.0	0.031	0.05	0.03
155	5775	11ac 80M	Right	/	14.01	16.0	0.124	0.20	0.12
155	5775	11ac 80M	Top	/	14.01	16.0	0.432	0.68	0.06

Note1: U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

Table 13.62: SAR Values (WLAN 5G - Body)

Frequency		Test Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
Ch.	MHz								
Ambient Temperature: 22.8°C Liquid Temperature: 22.2°C									
U-NII-2A Test Data (10mm) - Reduced power level 9									
58	5290	11ac 80M	Front	/	10.42	12.0	0.081	0.12	-0.19
58	5290	11ac 80M	Rear	/	10.42	12.0	0.140	0.20	-0.18
58	5290	11ac 80M	Left	/	10.42	12.0	0.017	0.02	-0.03
58	5290	11ac 80M	Right	/	10.42	12.0	0.098	0.14	-0.07
58	5290	11ac 80M	Top	/	10.42	12.0	0.184	0.26	0.08
U-NII-2C Test Data (10mm) - Reduced power level 9									
106	5530	11ac 80M	Front	/	10.25	12.0	0.108	0.16	0.14
106	5530	11ac 80M	Rear	/	10.25	12.0	0.132	0.20	-0.06
106	5530	11ac 80M	Left	/	10.25	12.0	0.009	0.01	-0.03
106	5530	11ac 80M	Right	/	10.25	12.0	0.065	0.10	0.03
106	5530	11ac 80M	Top	/	10.25	12.0	0.191	0.29	0.18
U-NII-3 Test Data (10mm) - Reduced power level 9									
155	5775	11ac 80M	Front	/	10.13	12.0	0.099	0.15	0.12
155	5775	11ac 80M	Rear	/	10.13	12.0	0.102	0.16	0.08
155	5775	11ac 80M	Left	/	10.13	12.0	0.013	0.02	0.11
155	5775	11ac 80M	Right	/	10.13	12.0	0.052	0.08	0.18
155	5775	11ac 80M	Top	/	10.13	12.0	0.178	0.27	0.09

Note1: U-NII-1 and U-NII-2A bands have the same specified maximum output and tolerance; SAR is measured for U-NII-2A band first. Adjusted SAR of U-NII-2A band is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

Table 13.63: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
Ch.	MHz					
122	5610	Top	100%	100%	0.77	0.77

14. SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Table 14.1: SAR Measurement Variability for GSM1900 Body – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
512	1850.2	Top	0.888	0.874	1.02	/

Table 14.2: SAR Measurement Variability for WCDMA Band 2 Head – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
9538	1907.6	Right Tilt	0.907	0.892	1.02	/

Table 14.3: SAR Measurement Variability for WCDMA Band 2 Body – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
9538	1907.6	Top	0.982	0.946	1.04	/

Table 14.4: SAR Measurement Variability for WCDMA Band 2 Body – Bottom Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
9612	1852.4	Bottom	0.858	0.833	1.03	/

Table 14.5: SAR Measurement Variability for WCDMA Band 4 Head – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
1513	1752.6	Right Tilt	0.910	0.884	1.03	/

Table 14.6: SAR Measurement Variability for LTE Band 2 Head – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
19100	1900	Right Tilt	0.917	0.902	1.02	/

Table 14.8: SAR Measurement Variability for LTE Band 2 Body – Bottom Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
18700	1860	Bottom	0.864	0.855	1.01	/

Table 14.9: SAR Measurement Variability for LTE Band 4 Head – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
20300	1745	Right Tilt	0.964	0.949	1.02	/

Table 14.10: SAR Measurement Variability for LTE Band 4 Body – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
20300	1745	Top	0.854	0.841	1.02	/

Table 14.11: SAR Measurement Variability for LTE Band 66 Head – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
132572	1770	Right Tilt	1.010	0.997	1.01	/

Table 14.12: SAR Measurement Variability for LTE Band 66 Body – Top Antenna

Frequency		Test Position	Original	1 st Repeated	Ratio	2 nd Repeated
Ch.	MHz		SAR (W/kg)	SAR (W/kg)		SAR (W/kg)
132322	1745	Top	0.806	0.799	1.01	/

15. Measurement Uncertainty

15.1. Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	12	N	2	1	1	6.0	6.0	∞
2	Isotropy	B	7.4	R	$\sqrt{3}$	1	1	4.3	4.3	∞
3	Boundary effect	B	1.1	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
7	Response time	B	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
8	Integration time	B	1.7	R	$\sqrt{3}$	1	1	1.0	1.0	∞
9	RF ambient conditions-noise	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
10	RF ambient conditions-reflection	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
11	Probe positioned mech. restrictions	B	0.35	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	9
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	9
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.4	10.3	95.5
Expanded uncertainty (Confidence interval of 95 %)		$u_e = 2u_c$						20.8	20.6	

15.2. Measurement Uncertainty for Normal SAR Tests (3GHz~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	12	N	2	1	1	6.0	6.0	∞
2	Isotropy	B	7.4	R	$\sqrt{3}$	1	1	4.3	4.3	∞
3	Boundary effect	B	1.1	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
7	Response time	B	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
8	Integration time	B	1.7	R	$\sqrt{3}$	1	1	1.0	1.0	∞
9	RF ambient conditions-noise	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
10	RF ambient conditions-reflection	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
11	Probe positioned mech. Restrictions	B	0.35	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						11.1	11.0	257
Expanded uncertainty (Confidence interval of 95 %)		$u_e = 2u_c$						22.2	22.0	

16. Main Test Instruments

Table 16.1: List of Main Instruments for original sample test

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46103759	2020-11-15	One year
02	Dielectric probe	85070E	MY44300317	/	/
03	Power meter	E4418B	MY50000366	2020-12-13	One year
04	Power sensor	E9304A	MY50000188		
05	Power meter	NRP	101460	2021-01-15	One year
06	Power sensor	NRP-Z91	100553		
07	Signal Generator	E8257D	MY47461211	2021-01-15	One year
08	Amplifier	VTL5400	0404	/	/
09	E-field Probe	EX3DV4	7621	2020-10-05 & 2020-11-30	One year
10	DAE	DAE4	1527	2020-11-06	One year
11	Dipole Validation Kit	D750V3	1163	2019-09-03	Three year
12	Dipole Validation Kit	D835V2	4d057	2018-10-09	Three year
13	Dipole Validation Kit	D1750V2	1152	2019-08-30	Three year
14	Dipole Validation Kit	D1900V2	5d088	2018-10-24	Three year
15	Dipole Validation Kit	D2450V2	873	2018-10-26	Three year
16	Dipole Validation Kit	D2550V2	1010	2018-08-24	Three year
17	Dipole Validation Kit	D5GHzV2	1238	2019-08-29	Three year
18	BTS	MT8820C	6201341853	2020-01-15	One year
19	BTS	E5515C	GB46110722	2020-01-15	One year
20	BTS	CMW500	158344	2020-07-17	One year
21	Software	DASY5	52.8.8.1222	/	/

ANNEX A: Graph Results

GSM850 Head

Date: 2021-4-20

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 40.435$; $\rho = 1000$ kg/m³

Communication System: UID 0, GSM (0) Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN7621 ConvF (10.35, 10.35, 10.35);

Right Cheek Middle/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.40 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 0.848 W/kg

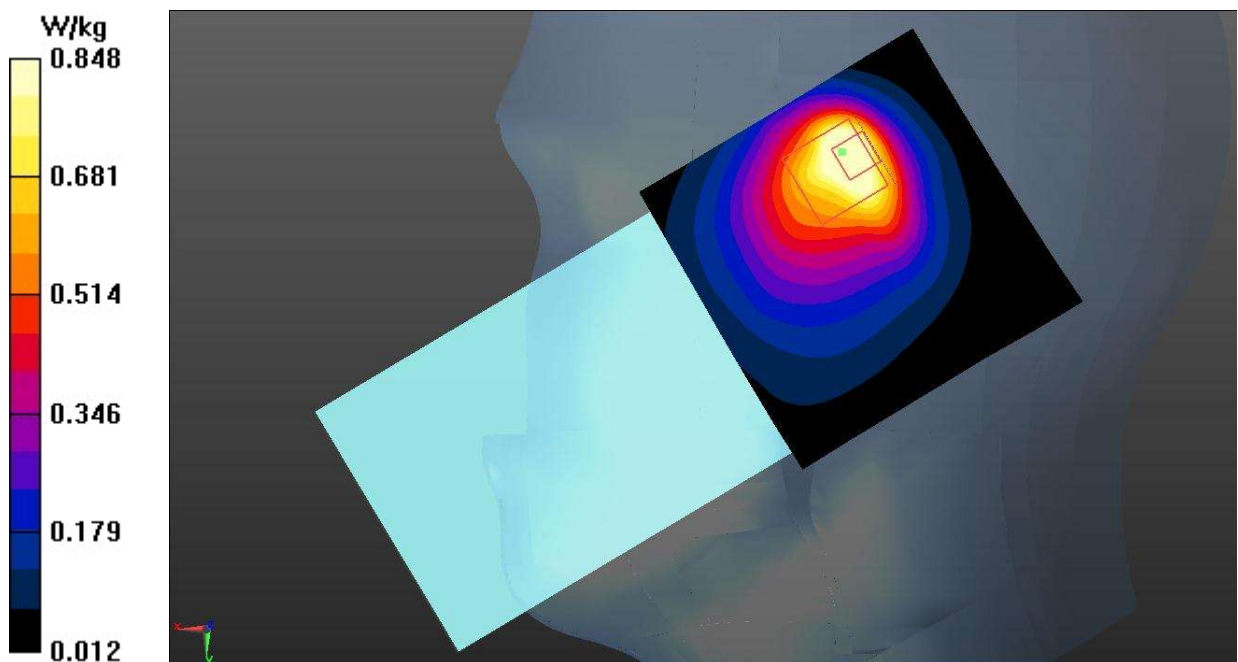


Fig.1 GSM 850

GSM850 Body

Date: 2021-4-20

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 40.435$; $\rho = 1000$ kg/m³

Communication System: UID 0, GPRS 4Txslot (0) Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: EX3DV4 – SN7621 ConvF (10.35, 10.35, 10.35);

Rear Side Middle/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.646 W/kg

Rear Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.71 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.915 W/kg

SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.289 W/kg

Maximum value of SAR (measured) = 0.594 W/kg

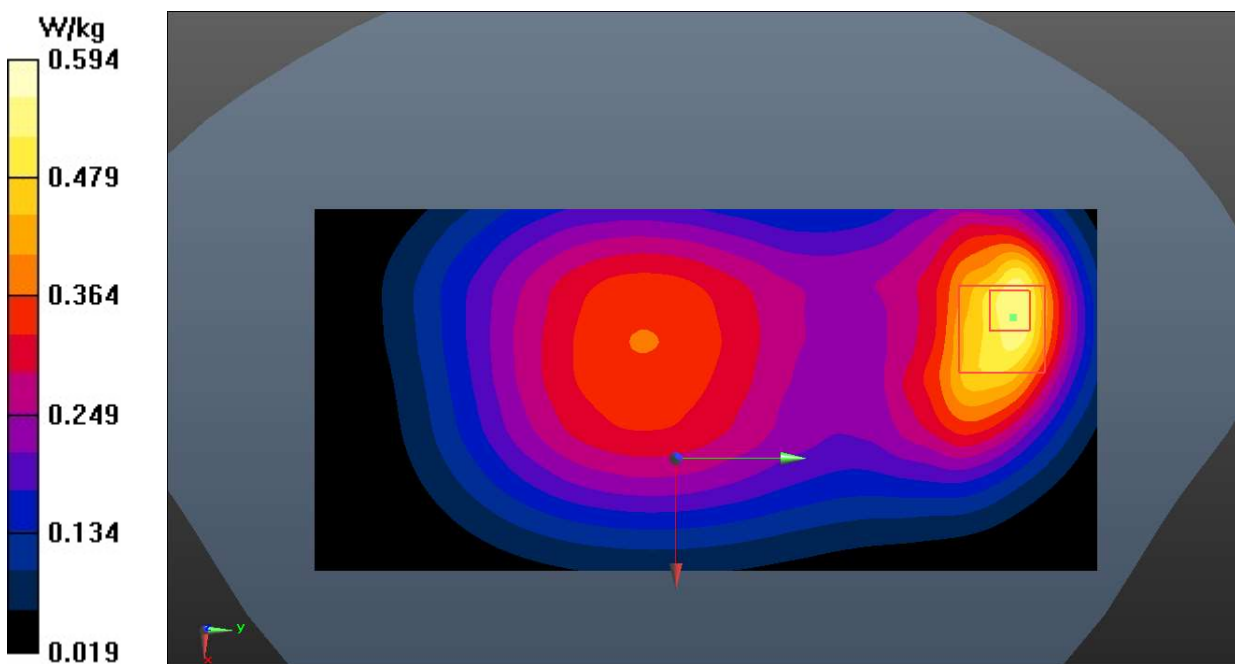


Fig.2 GSM 850

GSM1900 Head

Date: 2021-4-30

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ S/m; $\epsilon_r = 39.351$; $\rho = 1000$ kg/m³

Communication System: UID 0, GSM (0) Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN7621 ConvF (8.77, 8.77, 8.77);

Right Tilt Middle/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.988 W/kg

Right Tilt Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.58 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.714 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

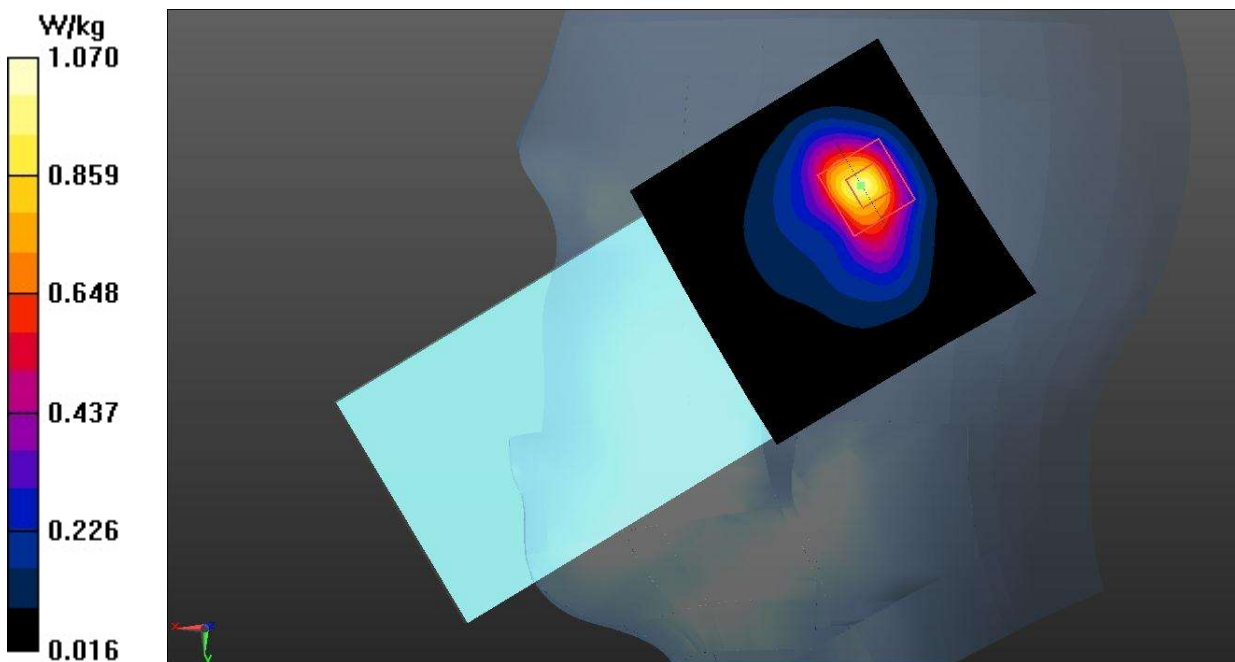


Fig.3 GSM 1900

GSM1900 Body

Date: 2021-4-30

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 39.467$; $\rho = 1000$ kg/m³

Communication System: UID 0, 3 slot GPRS (0) Frequency: 1850.2 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 – SN7621 ConvF (8.77, 8.77, 8.77);

Top Side Low/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

Top Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.57 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.469 W/kg

Maximum value of SAR (measured) = 1.27 W/kg

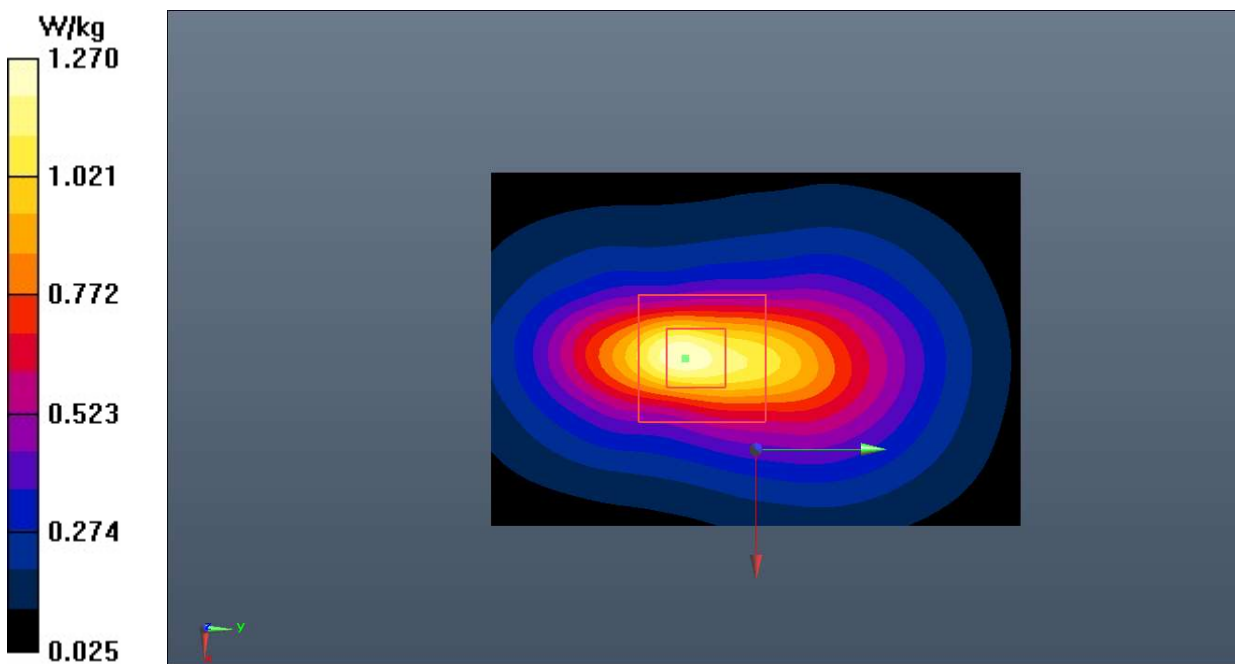


Fig.4 GSM 1900

WCDMA Band 2 Head

Date: 2021-4-30

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.242$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (8.77, 8.77, 8.77);

Right Tilt High/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

Right Tilt High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.30 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.432 W/kg

Maximum value of SAR (measured) = 1.44 W/kg

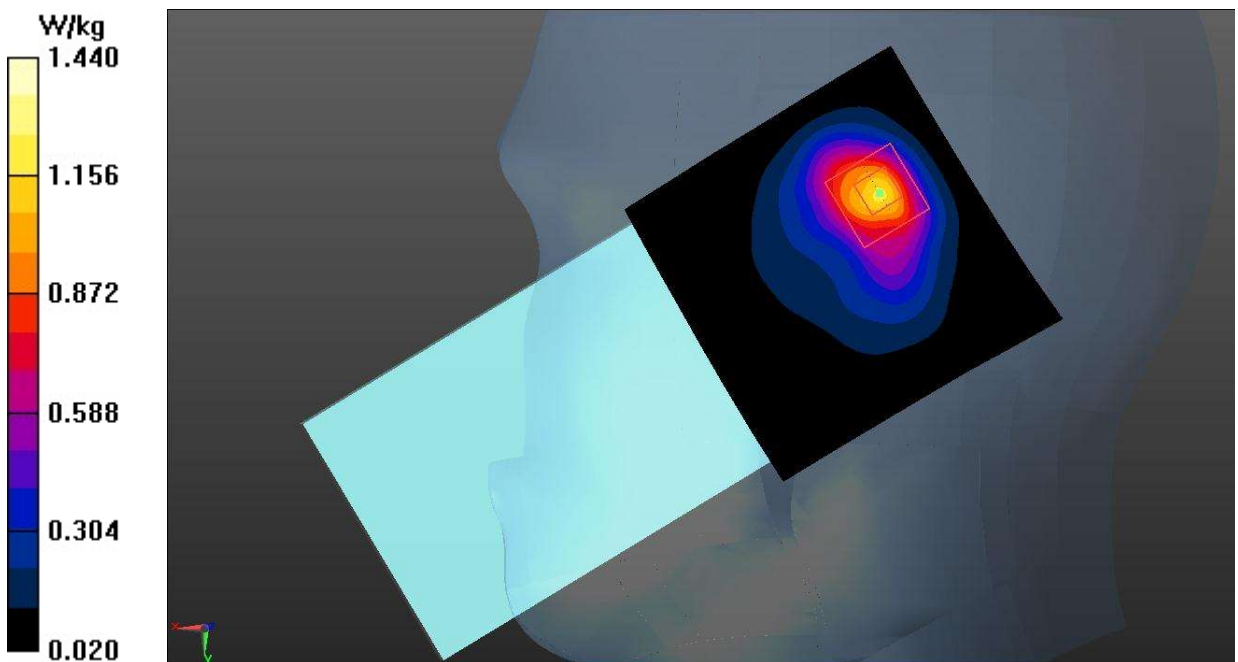


Fig.5 WCDMA Band 2

WCDMA Band 2 Body

Date: 2021-4-30

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.242$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (8.77, 8.77, 8.77);

Top Side High/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

Top Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.42 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.501 W/kg

Maximum value of SAR (measured) = 1.27 W/kg

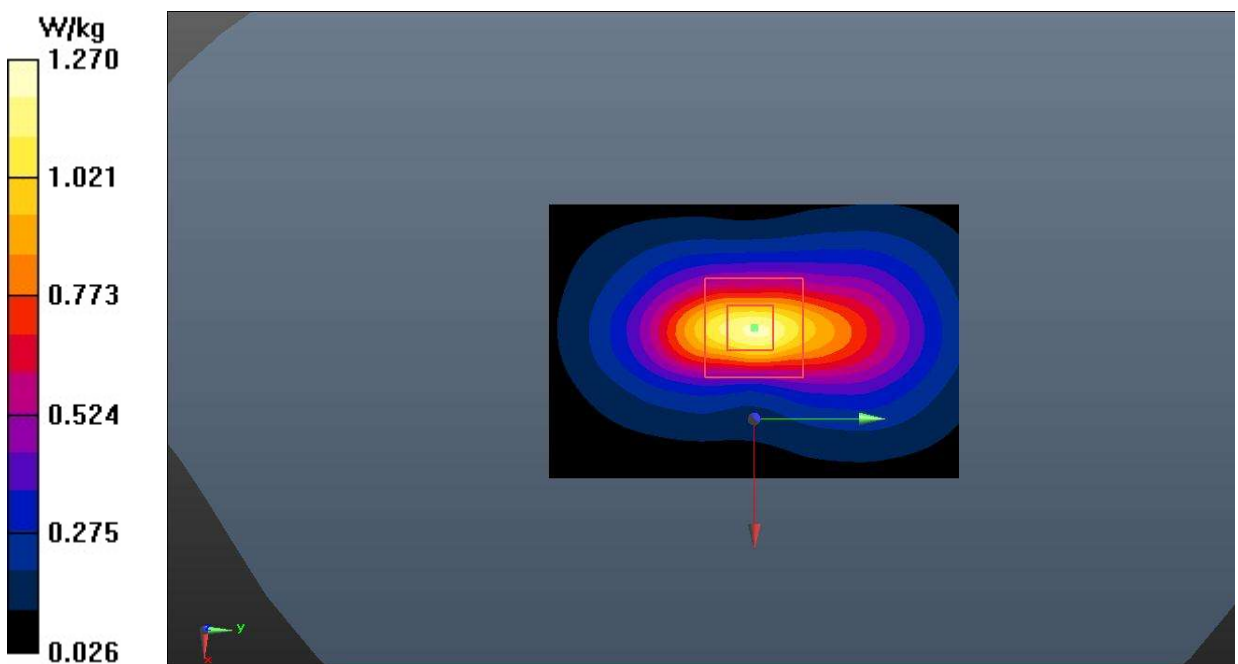


Fig.6 WCDMA Band 2

WCDMA Band 4 Head

Date: 2021-5-12

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.381$ S/m; $\epsilon_r = 39.61$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (9.14, 9.14, 9.14);

Right Tilt High/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

Right Tilt High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.99 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.438 W/kg

Maximum value of SAR (measured) = 1.43 W/kg

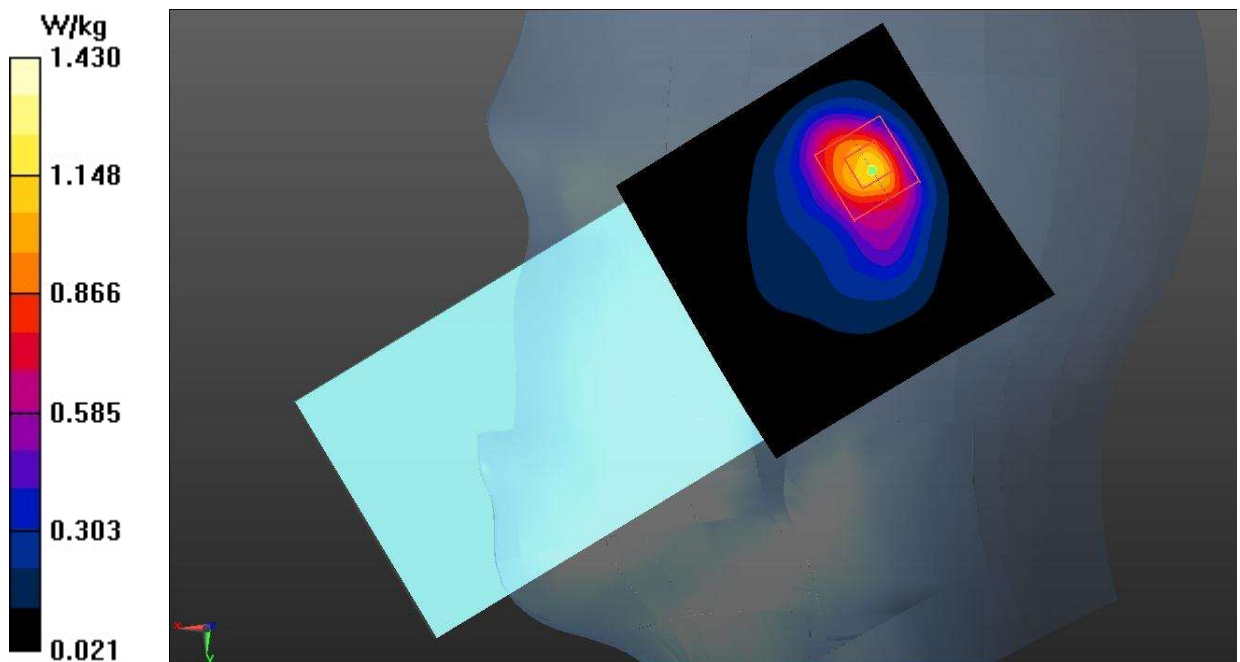


Fig.7 WCDMA Band 4

WCDMA Band 4 Body

Date: 2021-5-12

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.381$ S/m; $\epsilon_r = 39.61$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (9.14, 9.14, 9.14);

Rear Side High/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.941 W/kg

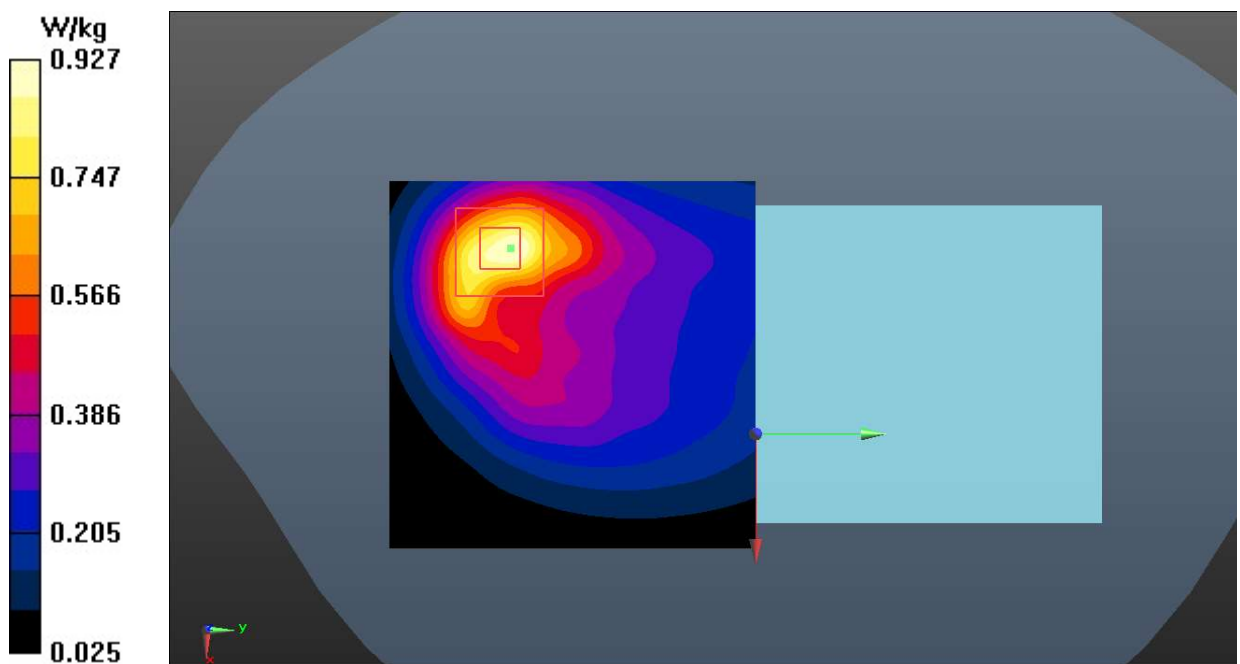
Rear Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.48 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.421 W/kg

Maximum value of SAR (measured) = 0.927 W/kg

**Fig.8 WCDMA Band 4**

WCDMA Band 5 Head

Date: 2021-4-20

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 40.437$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 836.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (10.35, 10.35, 10.35);

Right Cheek Middle/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

Right Cheek Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.97 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.419 W/kg

Maximum value of SAR (measured) = 0.904 W/kg

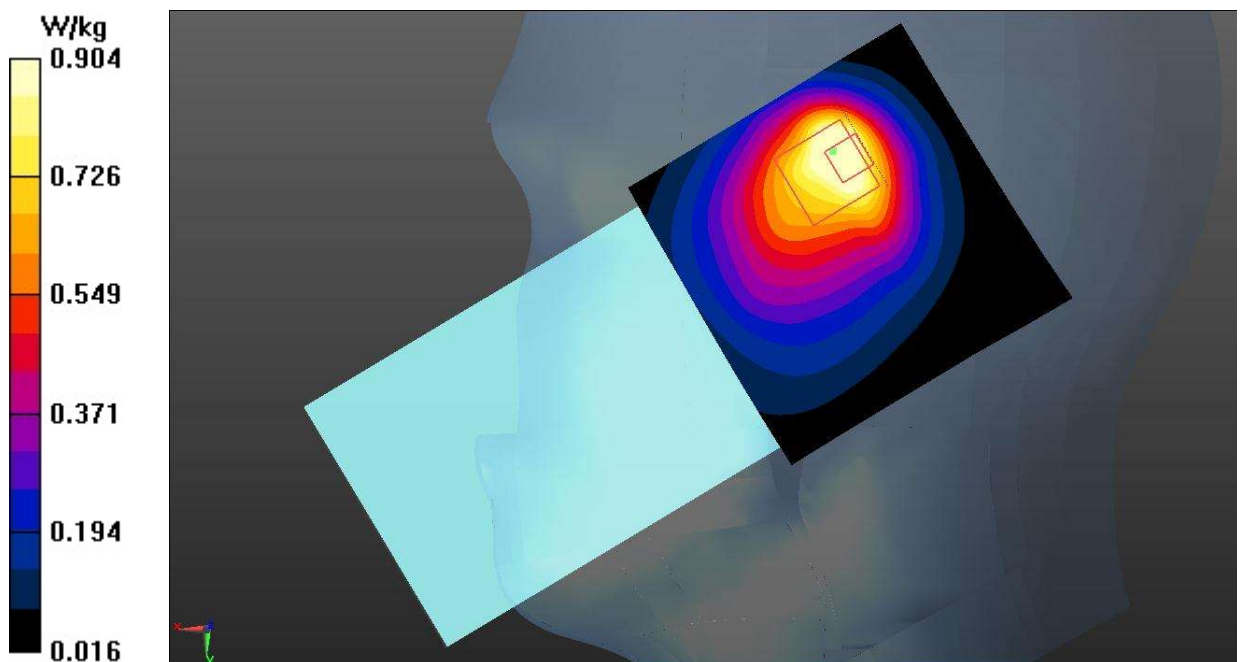


Fig.9 WCDMA Band 5

WCDMA Band 5 Body

Date: 2021-4-20

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.923$ S/m; $\epsilon_r = 40.437$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 836.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (10.35, 10.35, 10.35);

Rear Side Middle/Area Scan (61x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.361 W/kg

Rear Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.95 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 0.386 W/kg

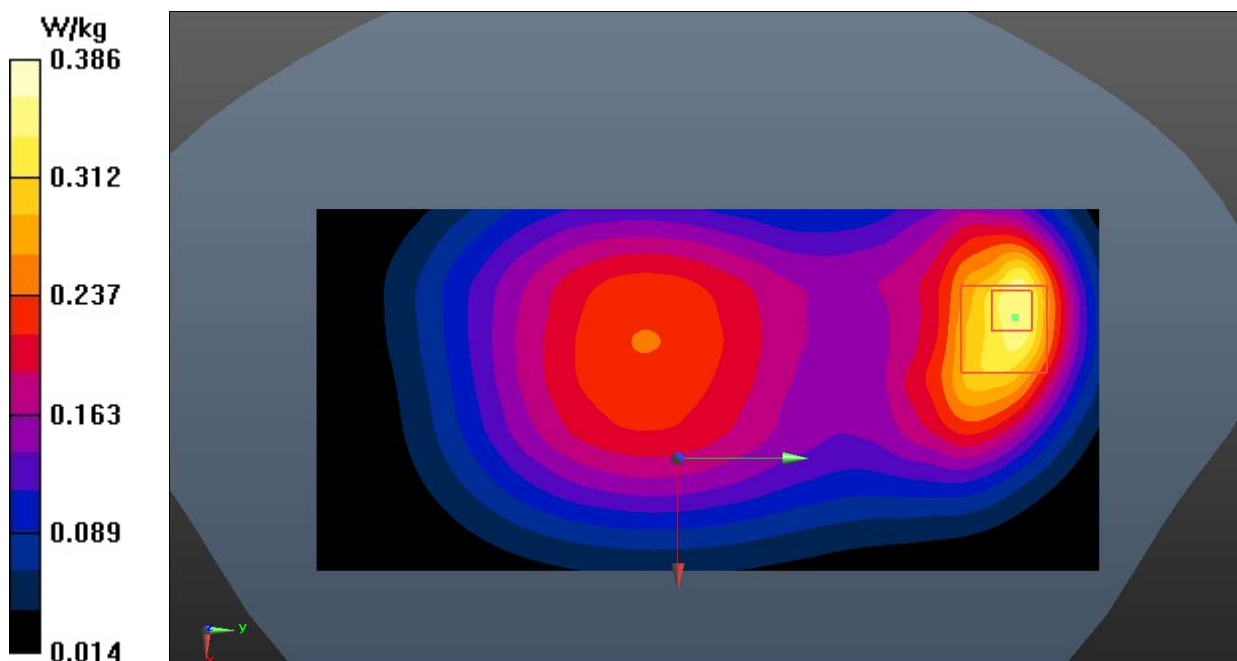


Fig.10 WCDMA Band 5

LTE Band 2 Head

Date: 2021-4-30

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 39.273$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (8.77, 8.77, 8.77);

Right Tilt High 1RB50/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

Right Tilt High 1RB50/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.04 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.917 W/kg; SAR(10 g) = 0.427 W/kg

Maximum value of SAR (measured) = 1.19 W/kg

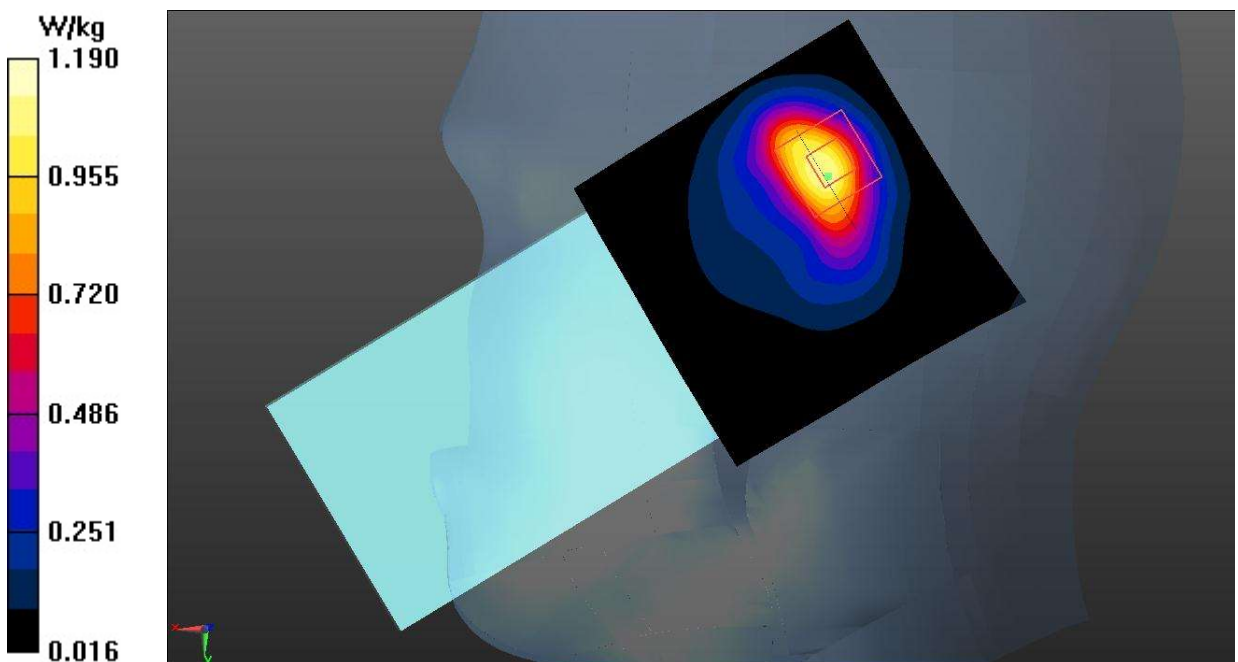


Fig.11 LTE Band 2

LTE Band 2 Body

Date: 2021-4-30

Electronics: DAE4 Sn1527

Medium: Head 1900MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 39.429$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (8.77, 8.77, 8.77);

Bottom Side Low 1RB50/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.37 W/kg**Bottom Side Low 1RB50/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.19 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.864 W/kg; SAR(10 g) = 0.498 W/kg

Maximum value of SAR (measured) = 1.48 W/kg

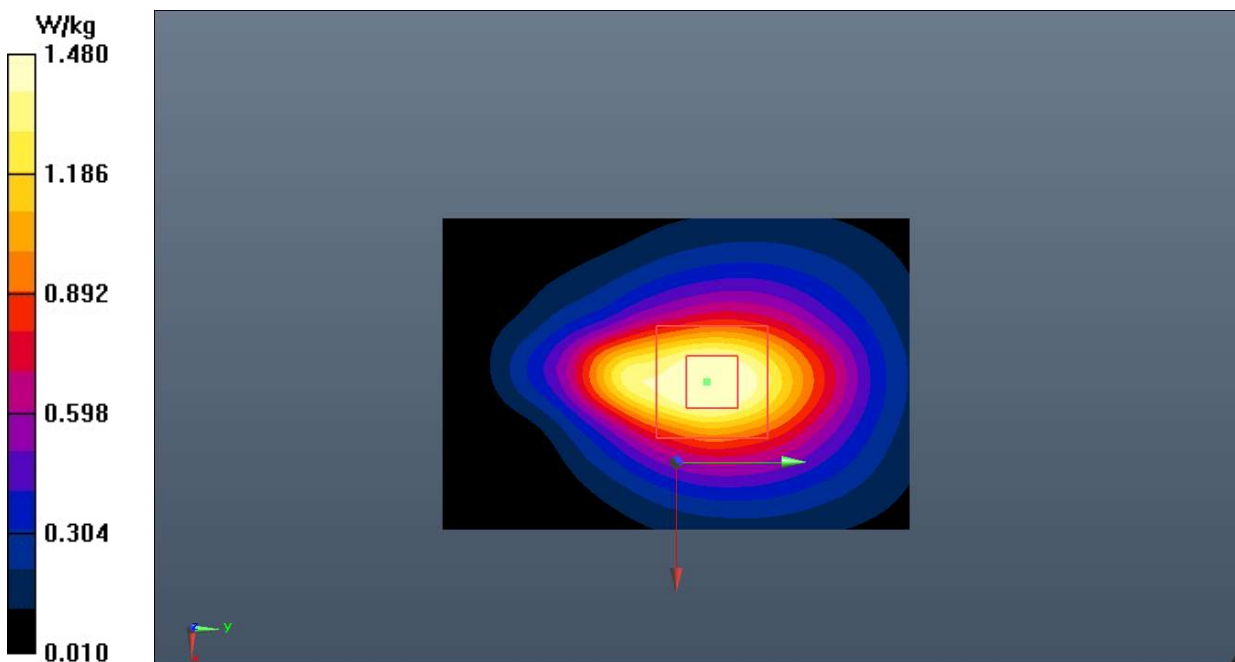


Fig.12 LTE Band 2

LTE Band 4 Head

Date: 2021-5-12

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 39.642$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (9.14, 9.14, 9.14);

Right Tilt High 50RB25/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

Right Tilt High 50RB25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.55 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.464 W/kg

Maximum value of SAR (measured) = 1.54 W/kg

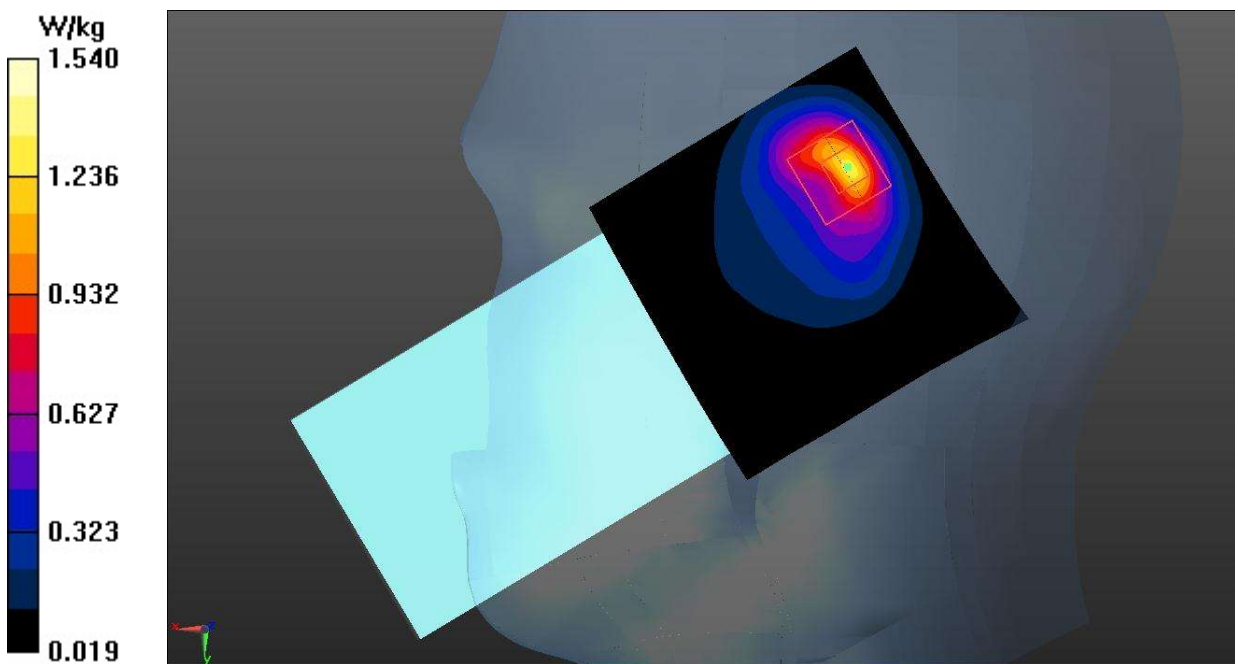


Fig.13 LTE Band 4

LTE Band 4 Body

Date: 2021-5-12

Electronics: DAE4 Sn1527

Medium: Head 1750MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 39.642$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (9.14, 9.14, 9.14);

Top Side High 1BR50/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

Top Side High 1BR50/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.77 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.456 W/kg

Maximum value of SAR (measured) = 1.22 W/kg

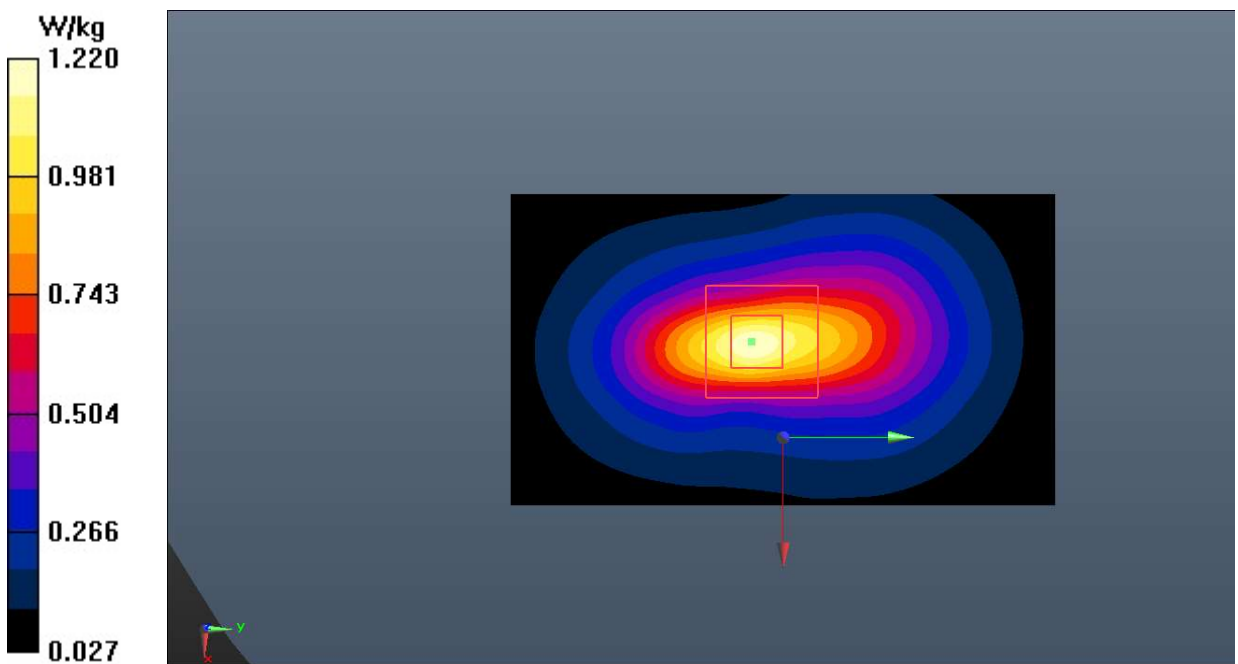


Fig.14 LTE Band 4

LTE Band 7 Head

Date: 2021-4-27

Electronics: DAE4 Sn1527

Medium: Head 2550MHz

Medium parameters used (interpolated): $f = 2535$ MHz; $\sigma = 1.961$ S/m; $\epsilon_r = 38.502$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (8.01, 8.01, 8.01);

Right Tilt Middle 1RB50/Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.840 W/kg**Right Tilt Middle 1RB50/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.918 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 1.35 W/kg

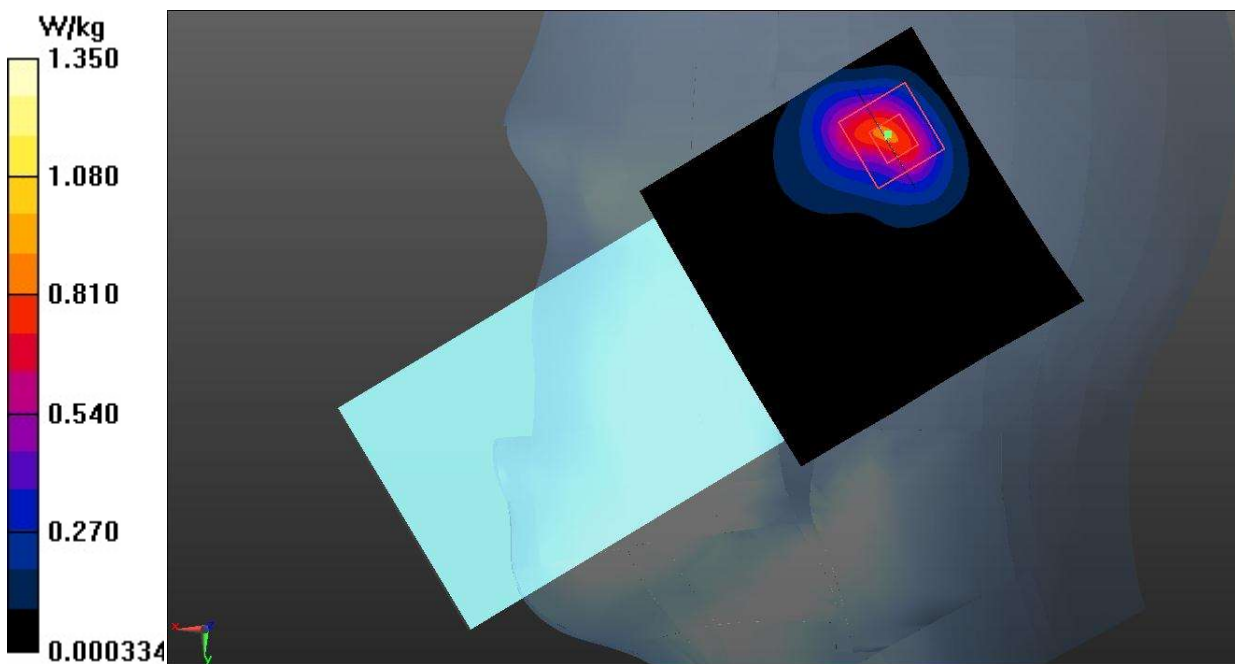


Fig.15 LTE Band 7

LTE Band 7 Body

Date: 2021-4-27

Electronics: DAE4 Sn1527

Medium: Head 2550MHz

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.961$ S/m; $\epsilon_r = 38.502$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 2510 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (8.01, 8.01, 8.01);

Top Side Low 100RB/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

Top Side Low 100RB/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.70 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 1.20 W/kg

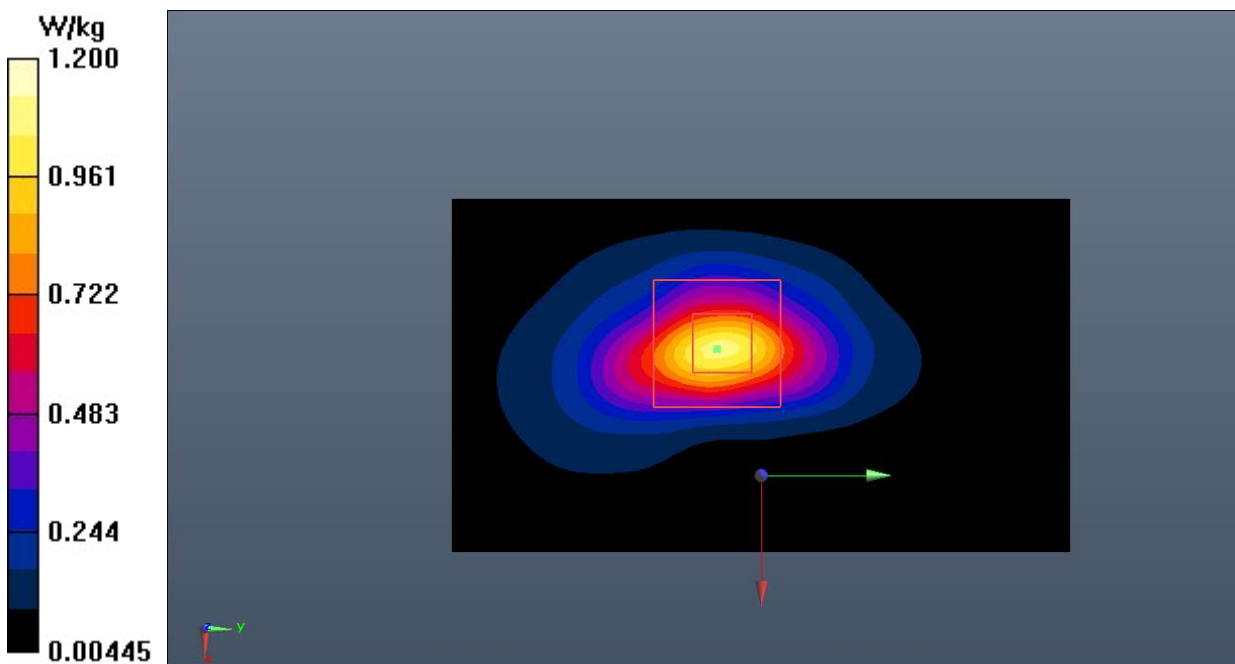


Fig.16 LTE Band 7

LTE Band 12 Head

Date: 2021-4-12

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.885 \text{ S/m}$; $\epsilon_r = 41.71$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (10.88, 10.88, 10.88);

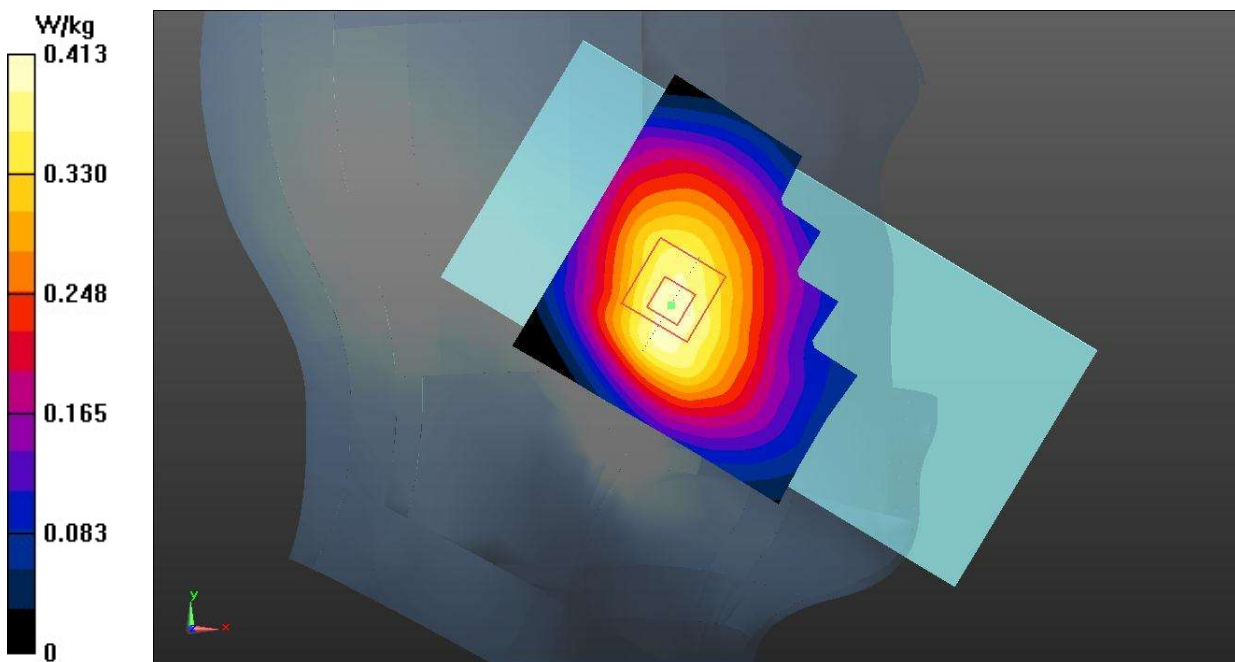
Left Cheek Low 1RB24/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.420 W/kg **Left Cheek Low 1RB24/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 4.914 V/m ; Power Drift = -0.09 dB Peak SAR (extrapolated) = 0.655 W/kg **SAR(1 g) = 0.240 W/kg ; SAR(10 g) = 0.156 W/kg** Maximum value of SAR (measured) = 0.413 W/kg 

Fig.17 LTE Band 12

LTE Band 12 Body

Date: 2021-4-12

Electronics: DAE4 Sn1527

Medium: Head 750MHz

Medium parameters used: $f = 704$ MHz; $\sigma = 0.885$ S/m; $\epsilon_r = 41.71$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (10.88, 10.88, 10.88);

Left Side Low 1RB24/Area Scan (41x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.409 W/kg

Left Side Low 1RB24 /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.60 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.230 W/kg

Maximum value of SAR (measured) = 0.409 W/kg

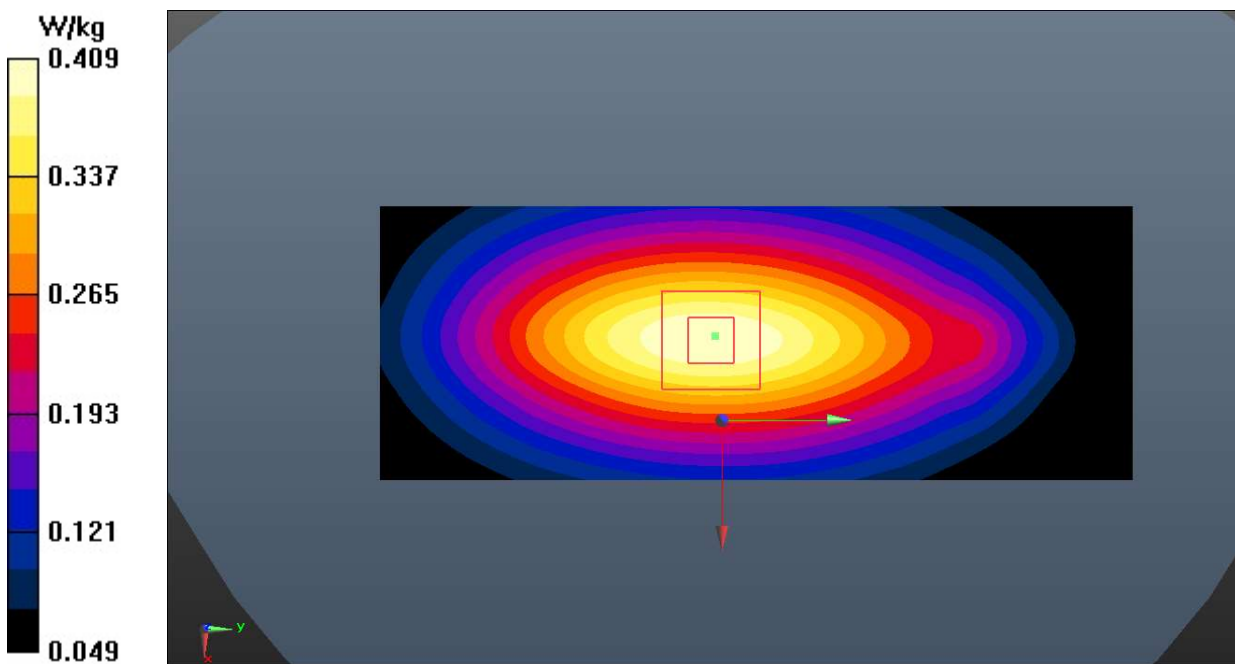


Fig.18 LTE Band 12

LTE Band 26 Head

Date: 2021-4-20

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used: $f = 832 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 40.49$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (10.35, 10.35, 10.35);

Right Cheek Middle 1RB37/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.09 W/kg**Right Cheek Middle 1RB37/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.82 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.417 W/kg

Maximum value of SAR (measured) = 0.965 W/kg

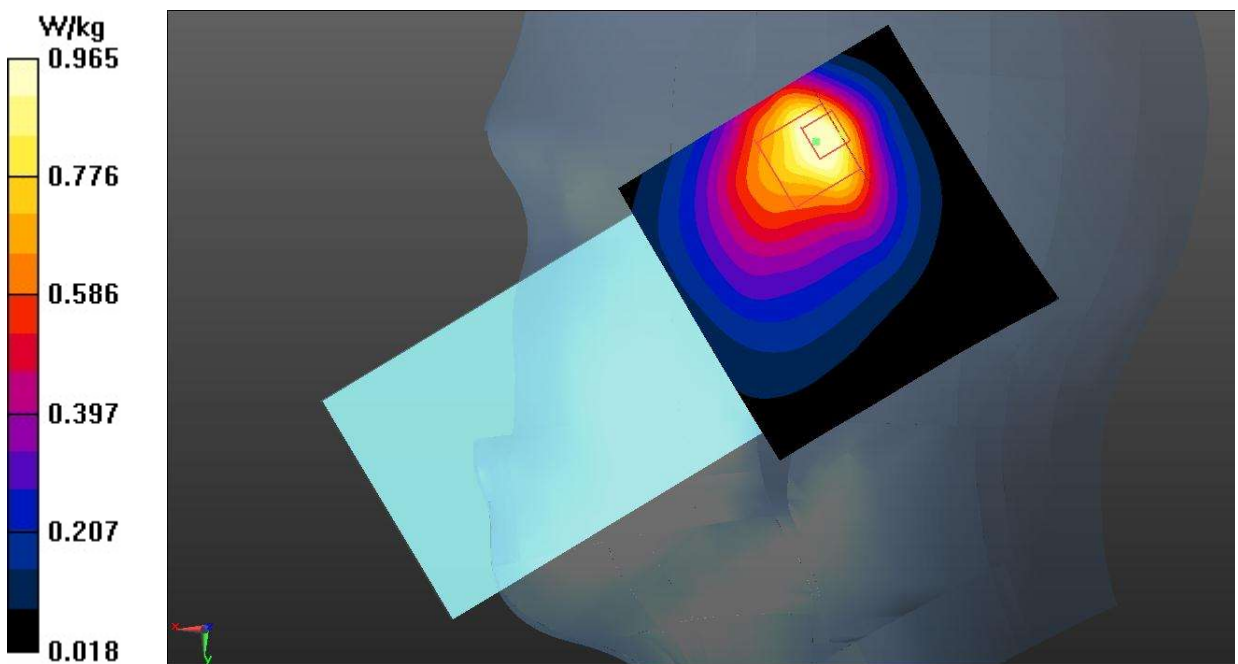


Fig.19 LTE Band 26

LTE Band 26 Body

Date: 2021-4-20

Electronics: DAE4 Sn1527

Medium: Head 835MHz

Medium parameters used: $f = 832$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 40.49$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7621 ConvF (10.35, 10.35, 10.35);

Rear Side Middle 1RB37/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.378 W/kg**Rear Side Middle 1RB37/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.97 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.490 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.372 W/kg

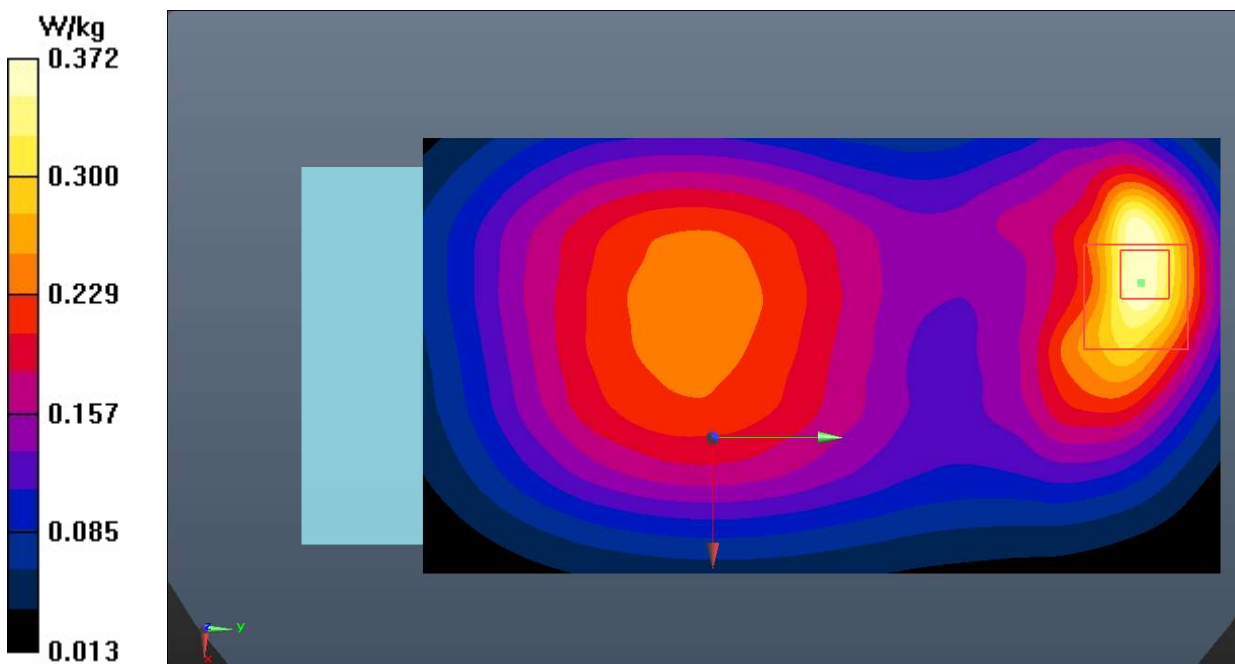


Fig.20 LTE Band 26

LTE Band 38 Head

Date: 2021-4-27

Electronics: DAE4 Sn1527

Medium: Head 2550MHz

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.922$ S/m; $\epsilon_r = 39.432$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_TDD (0) Frequency: 2580 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7621 ConvF (7.84, 7.84, 7.84);

Right Tilt Low 50RB25/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.00 W/kg

Right Tilt Low 50RB25/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.752 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 1.37 W/kg

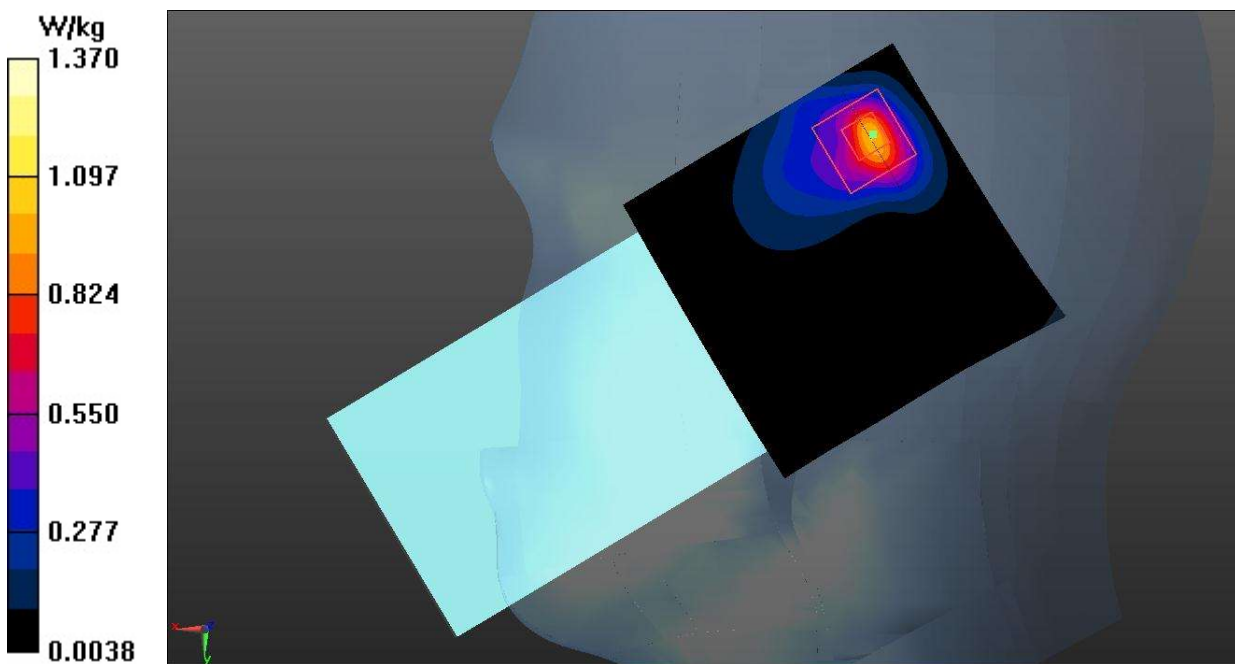


Fig.21 LTE Band 38