



TEST REPORT

No.I22N02586-SAR

For

Shenzhen Tinno Mobile Technology Corp.

Smart Phone

Model Name: U6080AA, U6080AC

With

Hardware Version: V1.0

Software Version: U6080AAV01.04.10, U6080ACV01.04.10

FCC ID: XD6U6080AA

Issued Date: 2023-03-02

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

Report Number	Revision	Description	Issue Date
I22N02586-SAR	Rev.0	1st edition	2023-03-02

CONTENTS

1. SUMMARY OF TEST REPORT	5
1.1. TEST ITEMS	5
1.2. TEST STANDARDS	5
1.3. TEST RESULT.....	5
1.4. TESTING LOCATION	5
1.5. PROJECT DATA	5
1.6. SIGNATURE.....	5
2. STATEMENT OF COMPLIANCE	6
3. CLIENT INFORMATION	8
3.1. APPLICANT INFORMATION	8
3.2. MANUFACTURER INFORMATION	8
4. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	9
4.1. ABOUT EUT.....	9
4.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	10
4.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	10
4.4. GENERAL DESCRIPTION.....	10
5. TEST METHODOLOGY	11
5.1. APPLICABLE LIMIT REGULATIONS	11
5.2. APPLICABLE MEASUREMENT STANDARDS	11
6. SPECIFIC ABSORPTION RATE (SAR).....	12
6.1. INTRODUCTION.....	12
6.2. SAR DEFINITION.....	12
7. TISSUE SIMULATING LIQUIDS	13
7.1. TARGETS FOR TISSUE SIMULATING LIQUID	13
7.2. DIELECTRIC PERFORMANCE	13
8. SYSTEM VERIFICATION	18
8.1. SYSTEM SETUP.....	18
8.2. SYSTEM VERIFICATION	19
9. MEASUREMENT PROCEDURES	20
9.1. TESTS TO BE PERFORMED.....	20
9.2. GENERAL MEASUREMENT PROCEDURE	22
9.3. WCDMA MEASUREMENT PROCEDURES FOR SAR	23
9.4. SAR MEASUREMENT FOR LTE.....	24
9.5. LTE (TDD) CONSIDERATIONS.....	25
9.6. BLUETOOTH & WLAN MEASUREMENT PROCEDURES FOR SAR.....	26
9.7. POWER DRIFT.....	26
10. CONDUCTED OUTPUT POWER	27

10.1. WCDMA MEASUREMENT RESULT	28
10.2. LTE MEASUREMENT RESULT	31
10.3. NR MEASUREMENT RESULT	112
10.4. BLUETOOTH AND WLAN MEASUREMENT RESULT	142
11. SIMULTANEOUS TX SAR CONSIDERATIONS	148
11.1. INTRODUCTION	148
11.2. TRANSMIT ANTENNA SEPARATION DISTANCES	148
11.3. SAR MEASUREMENT POSITIONS	150
12. EVALUATION OF SIMULTANEOUS	151
13. SUMMARY OF TEST RESULTS	175
13.1. TESTING ENVIRONMENT	175
13.2. SAR RESULTS FOR 3G/4G	176
13.3. TEST RESULTS FOR SUB 6G	192
13.4. TEST RESULTS FOR BLUETOOTH	202
13.5. WLAN EVALUATION FOR 2.4GHZ	203
13.6. WLAN EVALUATION FOR 5GHZ	205
13.7. PRODUCT SPECIFIC 10G SAR	209
14. SAR MEASUREMENT VARIABILITY	212
15. MEASUREMENT UNCERTAINTY	214
15.1. MEASUREMENT UNCERTAINTY FOR NORMAL SAR TESTS (300MHz~3GHz)	214
15.2. MEASUREMENT UNCERTAINTY FOR NORMAL SAR TESTS (3GHz~6GHz)	215
16. MAIN TEST INSTRUMENTS	216
ANNEX A: GRAPH RESULTS	217
ANNEX B: SYSTEM VERIFICATION RESULTS	263
ANNEX C: SAR MEASUREMENT SETUP	275
ANNEX D: POSITION OF THE WIRELESS DEVICE IN RELATION TO THE PHANTOM	281
ANNEX E: EQUIVALENT MEDIA RECIPES	284
ANNEX F: SYSTEM VALIDATION	285
ANNEX G: DAE CALIBRATION CERTIFICATE	286
ANNEX H: PROBE CALIBRATION CERTIFICATE	291
ANNEX I: DIPOLE CALIBRATION CERTIFICATE	300
ANNEX J: EXTENDED CALIBRATION SAR DIPOLE	362

1. Summary of Test Report

1.1. Test Items

Description: Smart Phone
Model Name: U6080AA, U6080AC
Applicant's Name: Shenzhen Tinno Mobile Technology Corp.
Manufacturer's Name: Shenzhen Tinno Mobile Technology Corp.

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

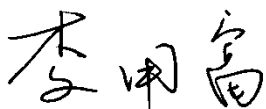
Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road,
Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project Data

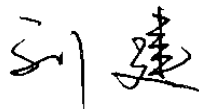
Testing Start Date: 2023-01-20

Testing End Date: 2023-02-22

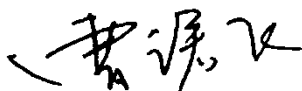
1.6. Signature



Li Yongfu
(Prepared 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 Shenzhen Tinno Mobile Technology Corp. Smart Phone U6080AA, U6080AC are as follows:

Table 2.1: Highest Reported SAR (1g)

Equipment Class	Frequency Bands	1g SAR (W/kg)		
		Head (Separation Distance 0mm)	Hotspot (Separation Distance 10mm)	Body-worn (Separation Distance 15mm)
PCE	WCDMA Band 2	0.28	0.92	0.59
PCE	WCDMA Band 4	0.24	0.91	0.60
PCE	WCDMA Band 5	0.38	0.46	0.41
PCE	LTE Band 2	0.29	1.01	0.60
PCE	LTE Band 5	0.37	0.53	0.47
PCE	LTE Band 12	0.35	0.57	0.53
PCE	LTE Band 14	0.37	0.53	0.50
PCE	LTE Band 30	0.14	1.30	0.56
CBE	LTE Band 48	0.72	1.24	0.28
PCE	LTE Band 66/4	0.23	0.93	0.67
PCE	NR n2 (NSA)	0.26	0.72	0.43
PCE	NR n5 (NSA)	0.34	0.43	0.39
PCE	NR n30 (NSA)	0.13	0.72	0.40
PCE	NR n66 (NSA)	0.22	0.70	0.32
PCE	NR n77 (NSA)	0.49	0.70	0.44
DSS	Bluetooth	0.34	0.06	0.02
DTS	WLAN 2.4GHz	1.11	1.03	0.45
NII	WLAN 5GHz	1.35	1.29	0.79

Table 2.2: Highest Reported SAR (10g)

Equipment Class	Frequency Bands	Extremity 10g SAR (W/kg) (Separation Distance 0mm)
PCE	WCDMA Band 2	2.80
PCE	WCDMA Band 4	2.93
PCE	LTE Band 2	2.75
PCE	LTE Band 30	2.93
CBE	LTE Band 48	2.30
PCE	LTE Band 66	3.09
DTS	WLAN 2.4GHz	3.33
NII	WLAN 5GHz	2.52

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 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)**, Head value is **1.35 W/kg (1g)**, Hotspot value is **1.30 W/kg (1g)**, Body-worn value is **0.79 W/kg (1g)** and Extremity SAR value is **3.33 W/kg (10g)**.

Table 2.3: Maximum Simultaneous Transmission SAR

/	Position	Sum (W/kg)
Highest reported SAR value for Head	Left Cheek DC_2A(Ant.1)_n77A(Ant.3) + WLAN 5HGHz + Bluetooth / Right Cheek DC_2A(Ant.1)_n77A(Ant.6) + WLAN 5HGHz + Bluetooth	1.59
Highest reported SAR value for Hotspot	Rear Side DC_30A(Ant.1)_n77A(Ant.6) + WLAN 5HGHz + Bluetooth	1.58
Highest reported SAR value for Body-worn	Rear Side DC_12A(Ant.5)_30A(Ant.1) + WLAN 5HGHz + Bluetooth	1.55
Highest reported SAR value for Extremity	Rear Side LTE Band 48 + WLAN 2.4GHz	3.91

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 **1.59 W/kg (1g)** and **3.91 W/kg (10g)**.

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

3. Client Information

3.1. Applicant Information

Company Name:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen, PRC
City:	Shenzhen
Country:	China
Telephone:	+86 0755-86095550

3.2. Manufacturer Information

Company Name:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen, PRC
City:	Shenzhen
Country:	China
Telephone:	+86 0755-86095550

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

4.1. About EUT

Description:	Smart Phone
Model Name:	U6080AA, U6080AC
Condition of EUT as received:	No obvious damage in appearance
Frequency Bands:	WCDMA Band 2/4/5, LTE Band 2/4/5/12/14/29/30/48/66, NR n2/n5/n30/n66/n77, Bluetooth, WLAN 2.4GHz, WLAN 5GHz, NFC
Tested Tx Frequency:	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)
	699 – 716MHz (LTE Band 12)
	788 – 798MHz (LTE Band 14)
	2305 – 2315MHz (LTE Band 30)
	3550 – 3700MHz (LTE Band 48)
	1710 – 1780MHz (LTE Band 66)
	1850 – 1910MHz (NR n2)
	824 – 849MHz (NR n5)
	2305 – 2315MHz (NR n30)
	1710 – 1780MHz (NR n66)
	3450 – 3550MHz, 3700 – 3980MHz (NR n77)
	2402 – 2480MHz (Bluetooth)
	2412 – 2462MHz (WLAN 2.4GHz)
	5150 – 5850MHz (WLAN 5GHz)
	13.56MHz (NFC)
Test device Production information:	Production unit
Device type:	Portable device
Antenna type:	Embedded antenna
Hotspot mode:	Support
Product Dimensions:	Long 168.23mm;Wide 76.12mm;Overall Diagonal 178.68mm
Remark: This device WLAN 5GHz U-NII-2A and U-NII-2C don't support hotspot operation.	

4.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receipt Date
UT01aa	868091060006715	V1.0	U6080AAV01.04.10	2022-12-09
UT02aa	868091060006798	V1.0	U6080AAV01.04.10	2022-12-09
UT06aa	868091060012838	V1.0	U6080AAV01.04.10	2023-01-09
UT07aa	868091060013612	V1.0	U6080AAV01.04.10	2023-01-09
UT08aa	868091060012887	V1.0	U6080AAV01.04.10	2023-01-09
UT09aa	868091060012762	V1.0	U6080AAV01.04.10	2023-01-09
UT10aa	868091060014701	V1.0	U6080AAV01.04.10	2023-01-09

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

Note: It is performed to test SAR with the UT06aa & UT07aa & UT08aa & UT09aa & UT10aa and conducted power with the UT01aa & UT02aa.

4.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery	466479	Guangdong Fenghua New Energy Co.,Ltd.

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

4.4. General Description

According to client's description, the table below shows the difference between U668AA and U668AC:

Model	U6080AA	U6080AC
Difference		
Software Version	U6080AAV01.04.10	U6080ACV01.04.10
Software Modifications	UI difference	
Mechanical appearance	Shell and battery cover has different color, logo of different.	

This report is based on the model U6080AA for the primary complete test.

According to the declaration of differences by manufacturer, all tests results of the model U6080AC is cited from the model U6080AA, there is no need to add any additional tests.

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 RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

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

KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02: REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES

TCB workshop May 2017: RF Exposure Procedures

TCB workshop October 2018: RF Exposure Procedures

TCB workshop April 2019: RF Exposure Procedures

TCB workshop November 2019: RF Exposure Policy Updates

TCB workshop April 2020: RF Exposure Policies and Procedures - Status

TCB workshop October 2020: RF Exposure Procedures

TCB workshop April 2022: RF Exposure Procedures

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

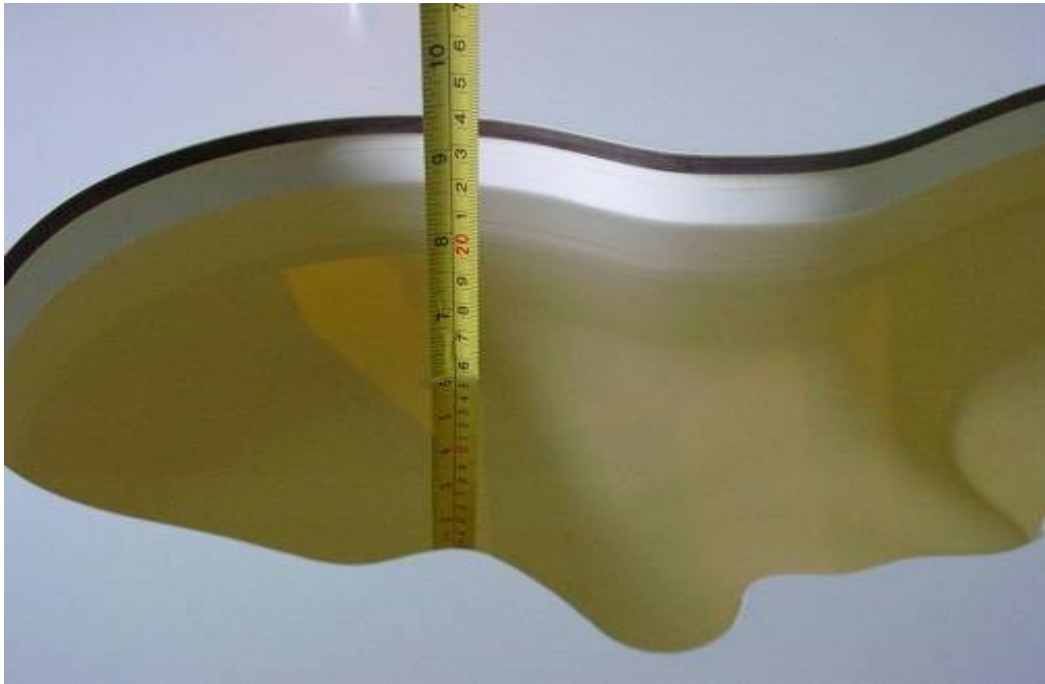
Frequency (MHz)	Liquid Type	Conductivity (σ)	$\pm 5\%$ Range	Permittivity (ϵ)	$\pm 5\%$ Range
750	Head	0.89	0.85~0.93	41.9	39.8~44.0
835	Head	0.90	0.86~0.95	41.5	39.4~43.6
1750	Head	1.37	1.30~1.44	40.1	38.1~42.1
1900	Head	1.40	1.33~1.47	40.0	38.0~42.0
2300	Head	1.67	1.57~1.75	39.5	37.5~41.4
2450	Head	1.80	1.71~1.89	39.2	37.2~41.2
3500	Head	2.91	2.77~3.05	37.9	36.0~39.7
3700	Head	3.12	2.97~3.27	37.7	35.8~39.5
3900	Head	3.32	3.16~3.48	37.5	35.7~39.3
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

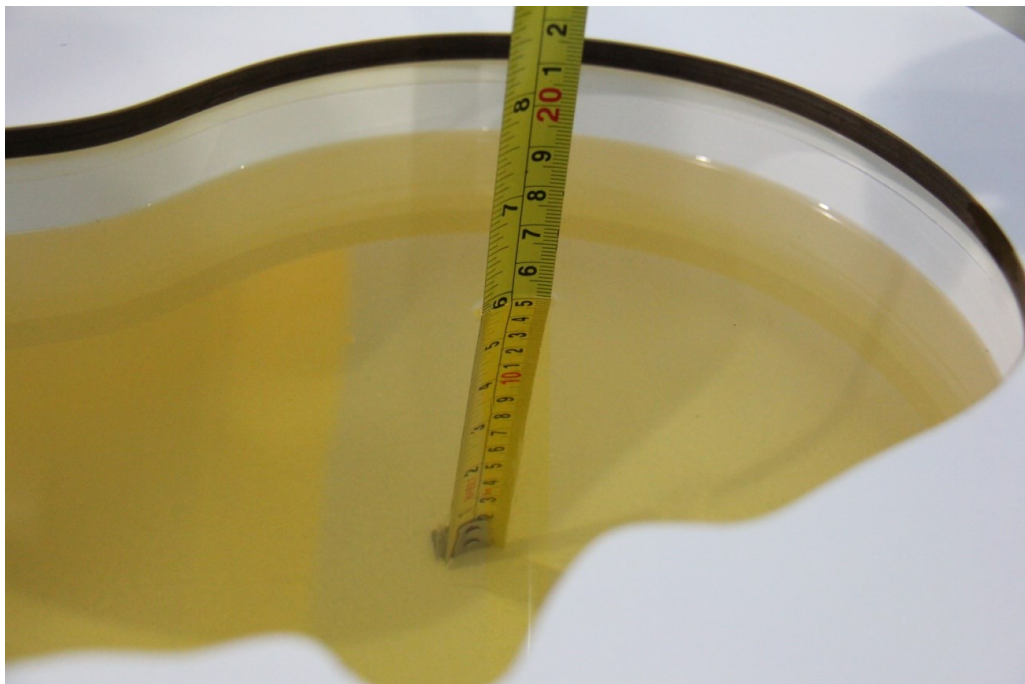
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency (MHz)	Conductivity σ (S/m)	Drift (%)	Permittivity ϵ	Drift (%)
2023-01-28	750	Head	0.877	-1.46	42.39	1.17
2023-01-20	835	Head	0.912	1.33	40.68	-1.98
2023-01-24	1750	Head	1.385	1.09	39.43	-1.67
2023-01-21	1900	Head	1.431	2.21	38.85	-2.88
2023-02-22	2300	Head	1.648	-1.32	39.94	1.11
2023-02-12	2450	Head	1.836	2.00	38.52	-1.73
2023-02-18	3500	Head	2.935	0.86	37.41	-1.29
2023-02-18	3700	Head	3.174	1.73	36.58	-2.97
2023-02-18	3900	Head	3.252	-2.05	37.96	1.23
2023-02-16	5250	Head	4.777	1.42	35.29	-1.70
2023-02-16	5600	Head	4.982	-1.74	35.88	1.07
2023-02-16	5750	Head	5.146	-1.42	36.59	3.36

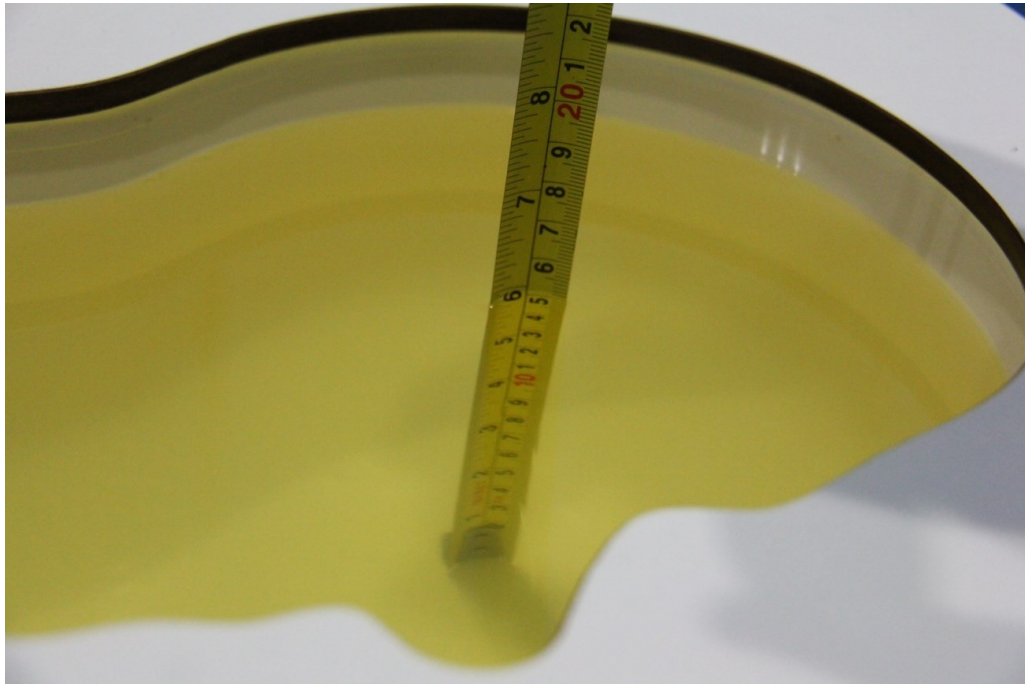
Note: The liquid temperature is 22.0°C.



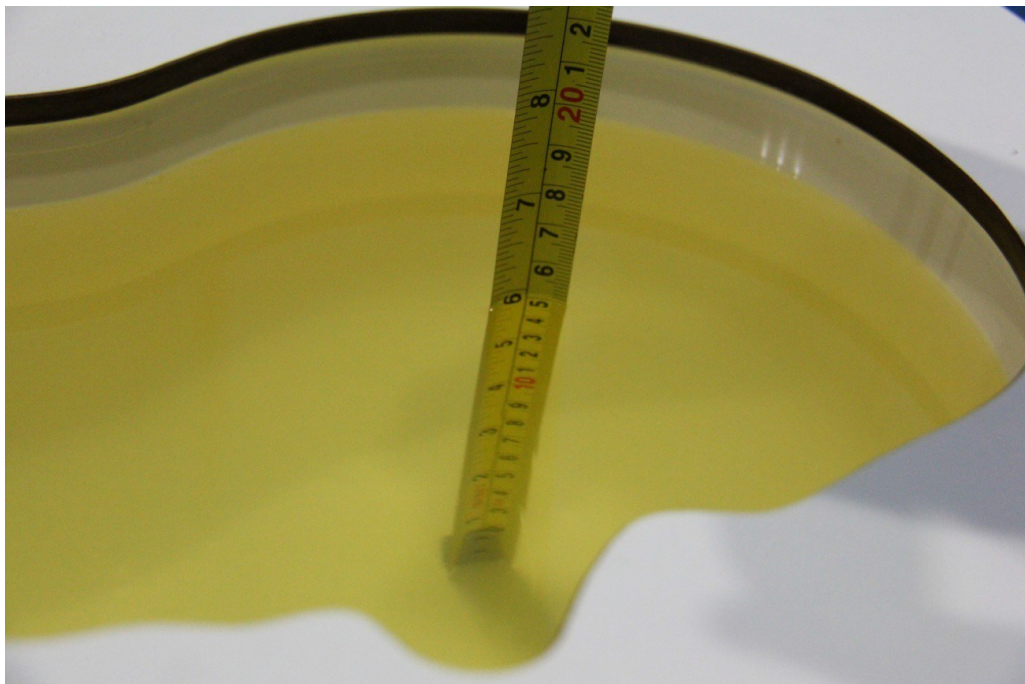
Picture 7-1: Liquid depth in the Head Phantom (750MHz)



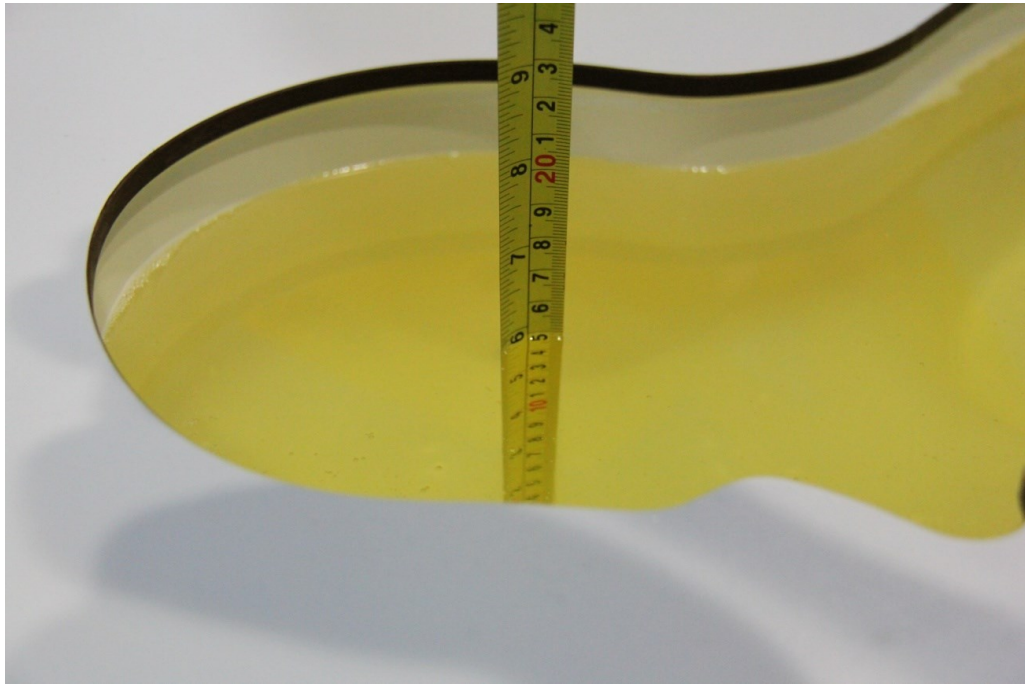
Picture 7-2: Liquid depth in the Head Phantom (835MHz)



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



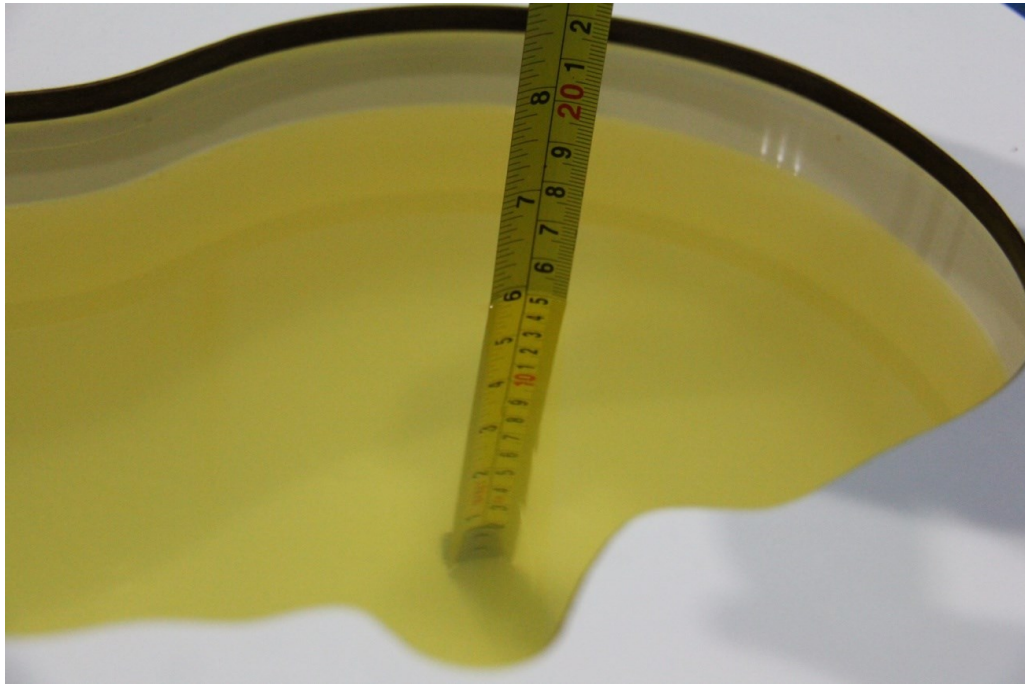
Picture 7-4: Liquid depth in the Head Phantom (1900MHz)



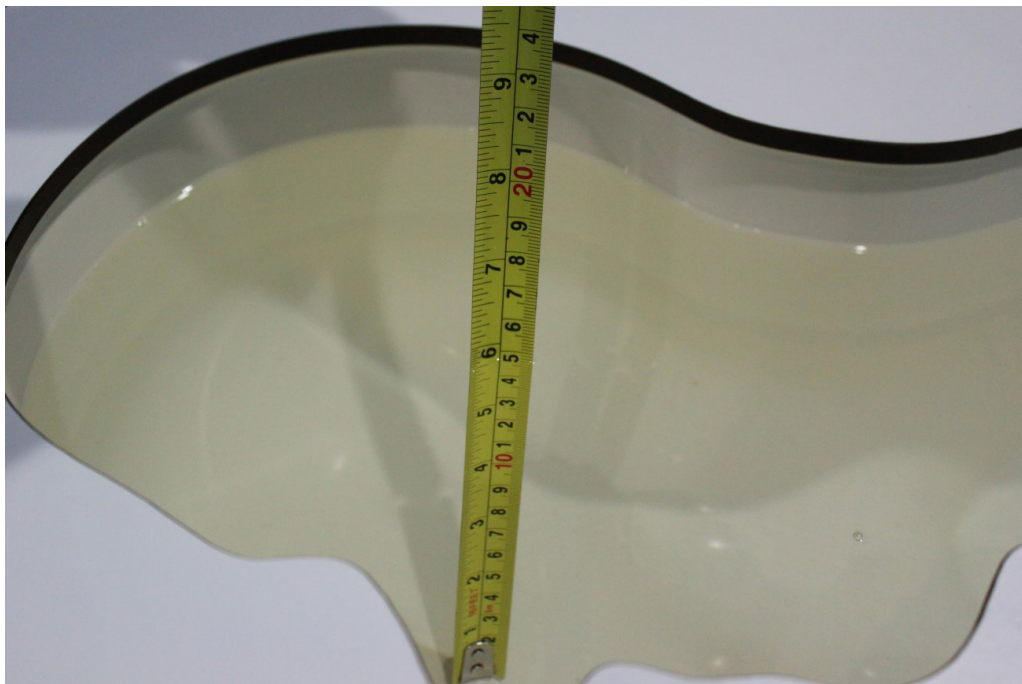
Picture 7-5: Liquid depth in the Head Phantom (2450MHz)



Picture 7-6: Liquid depth in the Head Phantom (3500MHz)



Picture 7-7: Liquid depth in the Head Phantom (3900MHz)

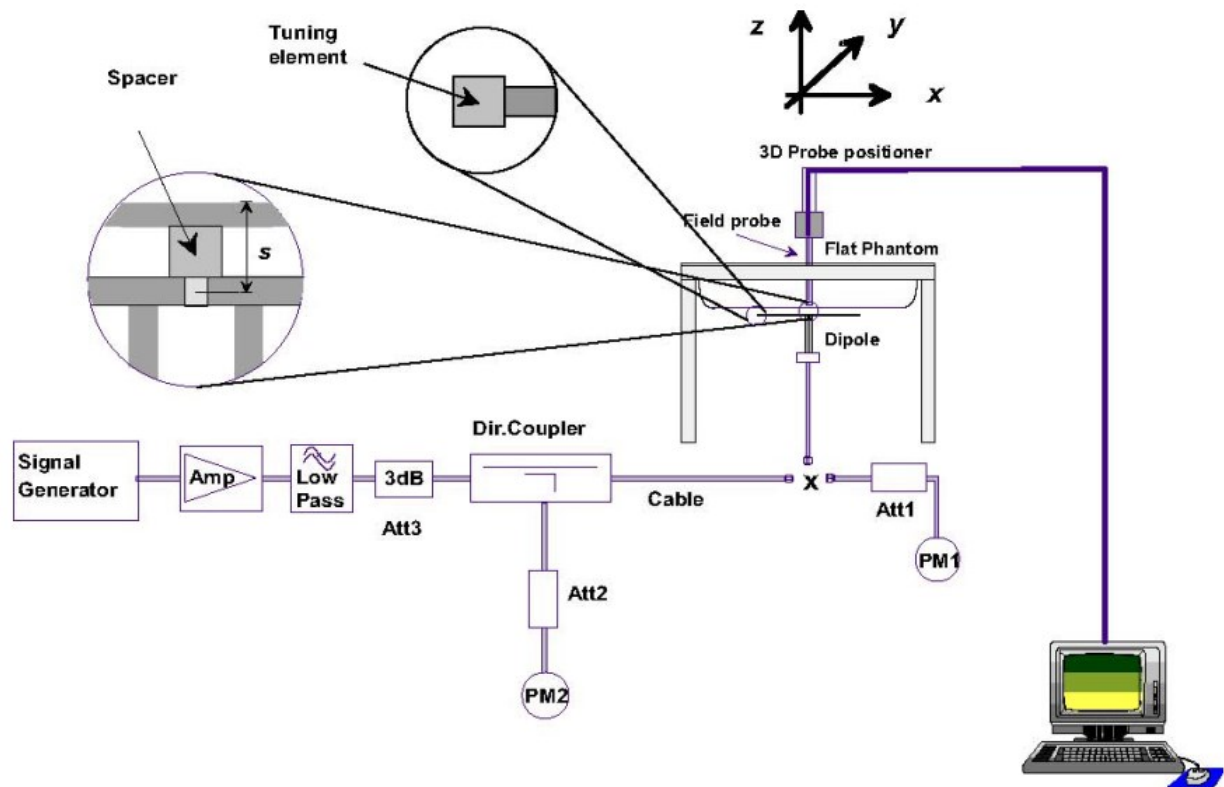


Picture 7-8: Liquid depth in the Head Phantom (5GHz)

8. System verification

8.1. System Setup

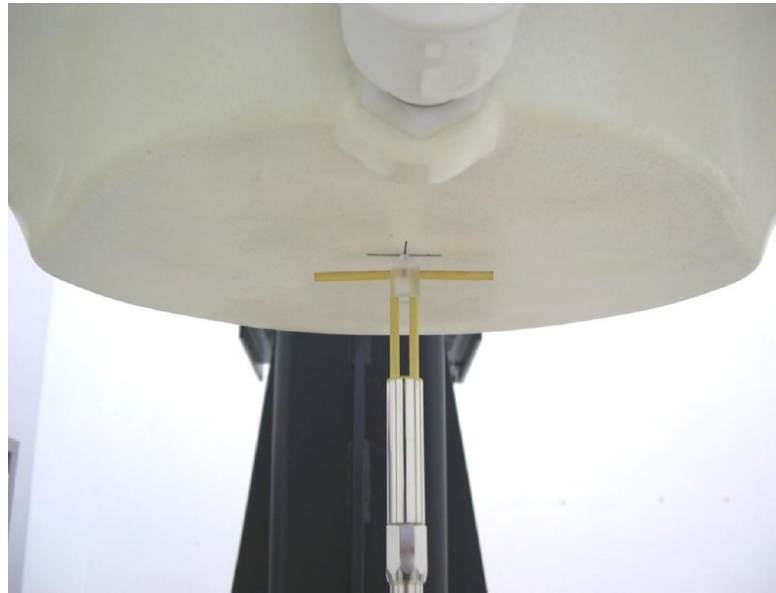
In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. 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 (%)	
				/		Normalize to 1W			
		10 g	1 g	10 g	1 g	10 g	1 g	10 g	1 g
2023-01-28	750	5.62	8.48	1.38	2.06	5.52	8.24	-1.78	-2.83
2023-01-20	835	6.29	9.64	1.63	2.52	6.52	10.08	3.66	4.56
2023-01-24	1750	19.60	36.30	4.96	9.34	19.84	37.36	1.22	2.92
2023-01-21	1900	20.50	40.20	5.23	10.5	20.92	42.00	2.05	4.48
2023-02-22	2300	22.70	48.30	5.57	11.8	22.28	47.20	-1.85	-2.28
2023-02-12	2450	24.20	53.20	6.20	13.8	24.80	55.20	2.48	3.76
2023-02-18	3500	25.20	66.80	2.56	6.84	25.60	68.40	1.59	2.40
2023-02-18	3700	25.00	66.70	2.58	6.96	25.80	69.60	3.20	4.35
2023-02-18	3900	24.80	71.30	2.43	6.81	24.30	68.10	-2.02	-4.49
2023-02-16	5250	22.80	79.70	2.34	8.30	23.40	83.00	2.63	4.14
2023-02-16	5600	23.60	82.60	2.30	7.96	23.00	79.60	-2.54	-3.63
2023-02-16	5750	22.10	78.50	2.17	7.61	21.70	76.10	-1.81	-3.06

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.

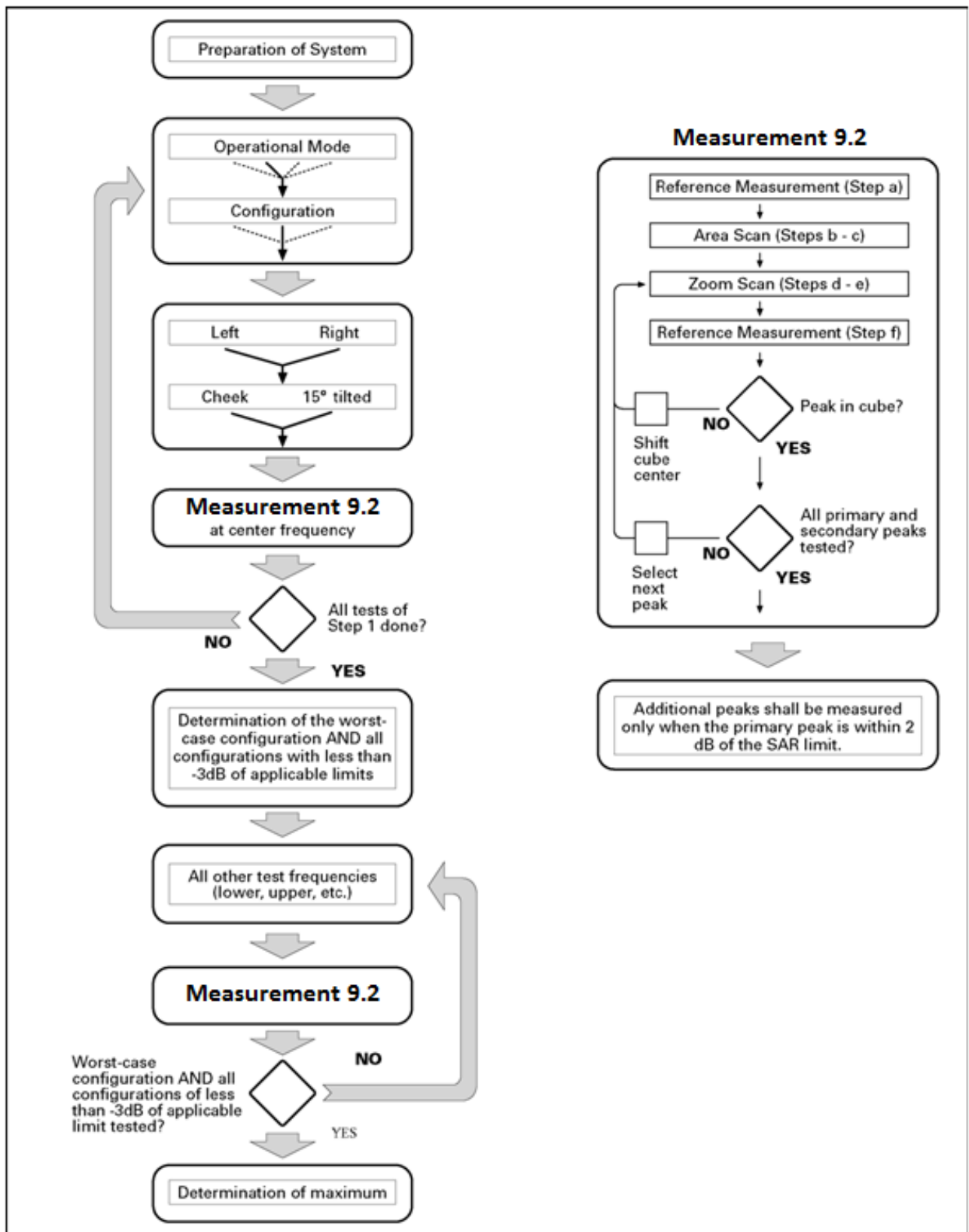
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the center of the transmit frequency band (f_c) for:

- 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, 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.

			$\leq 3\text{ GHz}$	$> 3\text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$5 \pm 1\text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5\text{ mm}$
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}			$\leq 2\text{ GHz: } \leq 15\text{ mm}$ $2 - 3\text{ GHz: } \leq 12\text{ mm}$	$3 - 4\text{ GHz: } \leq 12\text{ mm}$ $4 - 6\text{ GHz: } \leq 10\text{ mm}$
			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}			$\leq 2\text{ GHz: } \leq 8\text{ mm}$ $2 - 3\text{ GHz: } \leq 5\text{ mm}^*$	$3 - 4\text{ GHz: } \leq 5\text{ mm}^*$ $4 - 6\text{ GHz: } \leq 4\text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5\text{ mm}$	$3 - 4\text{ GHz: } \leq 4\text{ mm}$ $4 - 5\text{ GHz: } \leq 3\text{ mm}$ $5 - 6\text{ GHz: } \leq 2\text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	$\leq 4\text{ mm}$	$3 - 4\text{ GHz: } \leq 3\text{ mm}$ $4 - 5\text{ GHz: } \leq 2.5\text{ mm}$ $5 - 6\text{ GHz: } \leq 2\text{ mm}$
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30\text{ mm}$	$3 - 4\text{ GHz: } \geq 28\text{ mm}$ $4 - 5\text{ GHz: } \geq 25\text{ mm}$ $5 - 6\text{ GHz: } \geq 22\text{ mm}$
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 <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4\text{ W/kg}$, $\leq 8\text{ mm}$, $\leq 7\text{ mm}$ and $\leq 5\text{ mm}$ 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. SAR Measurement for LTE

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 48 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 (T_s) 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

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

Table 10.1: Summary of power level - WWAN antenna

Receiver on (Head)	Receiver off + Hotspot on (Hotspot on)	Receiver off + Hotspot off (Body-Worn/Extremity)
Power Level A1	Power Level B1	Power Level C1
(For UL CA & ENDC mode)		
Receiver on (Head)	Receiver off + Hotspot on (Hotspot on)	Receiver off + Hotspot off (Body-Worn/Extremity)
Power Level A2	Power Level B2	Power Level C2

Table 10.2: Summary of power level - WLAN antenna

Receiver on (Head)	Receiver off + Hotspot on (Hotspot on)	Receiver off + Hotspot off (Body-Worn/ Extremity)
Power Level D1	Power Level E1	Power Level F1
(WLAN + WWAN simultaneous transmission)		
Receiver on (Head)	Receiver off + Hotspot on (Hotspot on)	Receiver off + Hotspot off (Body-Worn/ Extremity)
Power Level D2	Power Level E2	Power Level F2

10.1. WCDMA Measurement result

Table 10.3: The conducted power measurement results WCDMA

Power Level A1/C1					
Item	band	WCDMA Band 2			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	RMC	24.0	22.90	22.90	23.00
HSUPA	1	20.5	19.50	19.50	19.60
	2	20.5	19.60	19.60	19.70
	3	21.0	20.00	20.00	20.10
	4	19.5	18.50	18.50	18.60
	5	22.0	21.00	21.00	21.10
HSDPA	1	23.5	21.90	21.90	22.00
	2	23.5	22.00	22.00	22.10
	3	23.0	21.60	21.60	21.70
	4	23.0	21.60	21.60	21.70
DC-HSDPA	1	23.5	21.80	21.90	22.00
	2	23.5	21.90	22.00	22.00
	3	23.0	21.50	21.60	21.70
	4	23.0	21.50	21.50	21.50
HSPA+	16QAM	23.0	21.80	21.60	21.90
Power Level B1					
Item	band	WCDMA Band 2			
	ARFCN	Tune up	Ch.9538 (1907.6MHz)	Ch.9400 (1880MHz)	Ch.9262 (1852.4MHz)
WCDMA	RMC	22.0	20.90	20.90	21.00
HSUPA	1	18.5	17.30	17.30	17.40
	2	18.5	17.40	17.40	17.50
	3	19.0	17.80	17.80	18.00
	4	17.5	16.30	16.30	16.40
	5	20.0	18.80	18.80	18.90
HSDPA	1	21.5	19.90	19.80	20.00
	2	21.5	20.00	19.90	20.10
	3	21.0	19.40	19.40	19.50
	4	21.0	19.40	19.30	19.50
DC-HSDPA	1	21.5	19.90	19.80	20.00
	2	21.5	19.90	19.90	19.90
	3	21.0	19.40	19.30	19.50
	4	21.0	19.40	19.40	19.40
HSPA+	16QAM	21.0	19.70	19.60	19.80

Power Level A1/C1					
Item	band	WCDMA Band 4			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	RMC	23.5	22.60	22.60	22.70
HSUPA	1	20.5	19.30	19.30	19.40
	2	20.5	19.40	19.40	19.50
	3	21.0	19.80	19.80	19.90
	4	19.5	18.30	18.30	18.40
	5	22.0	20.70	20.70	20.80
HSDPA	1	23.0	21.80	21.80	21.90
	2	23.0	21.90	21.90	22.00
	3	23.0	21.30	21.30	21.40
	4	23.0	21.30	21.30	21.40
DC-HSDPA	1	23.0	21.70	21.80	21.80
	2	23.0	21.80	21.90	22.00
	3	23.0	21.30	21.30	21.30
	4	23.0	21.20	21.30	21.40
HSPA+	16QAM	22.5	22.00	21.70	21.40
Power Level B1					
Item	band	WCDMA Band 4			
	ARFCN	Tune up	Ch.1513 (1752.6MHz)	Ch.1413 (1732.6MHz)	Ch.1312 (1712.4MHz)
WCDMA	RMC	21.0	19.60	19.60	19.70
HSUPA	1	17.5	16.10	16.10	16.20
	2	17.5	16.20	16.20	16.30
	3	18.0	16.60	16.60	16.70
	4	16.5	15.20	15.20	15.20
	5	19.0	17.50	17.50	17.60
HSDPA	1	20.0	18.60	18.60	18.60
	2	20.0	18.70	18.70	18.70
	3	20.0	18.10	18.10	18.20
	4	20.0	18.00	18.00	18.10
DC-HSDPA	1	20.0	18.60	18.60	18.60
	2	20.0	18.70	18.60	18.80
	3	20.0	18.20	18.10	18.30
	4	20.0	18.10	18.10	18.20
HSPA+	16QAM	19.0	18.30	18.20	18.20

Power Level A1/B1/C1					
Item	band	WCDMA Band 5			
	ARFCN	Tune up	Ch.4233 (846.6MHz)	Ch.4183 (836.6MHz)	Ch.4132 (826.4MHz)
WCDMA	RMC	24.0	22.60	22.60	22.60
HSUPA	1	20.5	19.10	19.10	19.10
	2	20.5	19.20	19.20	19.30
	3	21.0	19.70	19.70	19.70
	4	19.5	18.20	18.20	18.20
	5	22.0	20.60	20.60	20.60
HSDPA	1	23.5	21.60	21.50	21.60
	2	23.5	21.70	21.70	21.70
	3	23.0	21.10	21.10	21.20
	4	23.0	21.10	21.10	21.10
DC-HSDPA	1	23.5	21.60	21.60	21.60
	2	23.5	21.70	21.50	21.60
	3	23.0	21.20	21.10	21.30
	4	23.0	21.10	21.10	21.10
HSPA+	16QAM	23.0	21.40	21.60	21.20

10.2. LTE Measurement result

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

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

LTE Band 4 (1710 - 1755MHz) is covered by LTE Band 66 (1710 - 1880MHz)

Table 10.4: The conducted Power for LTE

Ant.5 - Power Level A1/C1								
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	23.00	22.26	21.09	24.0	23.0	22.0
		1880.0	22.98	22.19	21.11			
		1850.7	22.98	22.18	21.08			
	1RB_3	1909.3	23.01	22.27	21.12			
		1880.0	22.98	22.15	21.09			
		1850.7	22.97	22.19	21.08			
	1RB_0	1909.3	22.98	22.26	21.14			
		1880.0	22.99	22.13	21.04			
		1850.7	22.98	22.18	21.08			
	3RB_3	1909.3	23.04	22.00	21.07			
		1880.0	22.96	21.94	21.02			
		1850.7	22.98	21.94	21.04			
	3RB_1	1909.3	23.01	22.00	21.09			
		1880.0	23.03	22.01	21.05			
		1850.7	22.94	21.97	21.03			
	3RB_0	1909.3	23.05	21.98	21.10			
		1880.0	22.98	22.01	21.06			
		1850.7	22.94	21.96	21.05			
	6RB_0	1909.3	22.03	21.09	19.99	23.0	22.0	21.0
		1880.0	22.01	21.06	19.95			
		1850.7	21.96	20.98	19.90			

Ant.5 - Power Level A1/C1								
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	23.02	22.21	21.19	24.0	23.0	22.0
		1880.0	22.98	22.09	21.05			
		1851.5	22.97	22.21	21.04			
	1RB_7	1908.5	23.03	22.22	21.17			
		1880.0	23.01	22.10	21.08			
		1851.5	22.96	22.21	21.05			
	1RB_0	1908.5	23.01	22.18	21.08			
		1880.0	22.98	22.10	21.05			
		1851.5	22.96	22.19	21.05			
	8RB_7	1908.5	22.03	21.08	20.02	23.0	22.0	21.0
		1880.0	21.93	20.97	19.91			
		1851.5	21.95	21.02	19.94			
	8RB_4	1908.5	22.00	21.07	20.04			
		1880.0	21.94	21.02	19.92			
		1851.5	21.96	21.04	19.99			
	8RB_0	1908.5	22.03	21.07	20.01			
		1880.0	22.02	21.04	20.00			
		1851.5	21.97	21.01	19.97			
	15RB_0	1908.5	21.98	21.05	20.01			
		1880.0	21.94	20.96	19.93			
		1851.5	21.97	21.00	19.95			

Ant.5 - Power Level A1/C1								
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	23.07	22.31	21.19	24.0	23.0	22.0
		1880.0	23.03	22.19	21.08			
		1852.5	23.03	22.23	21.10			
	1RB_12	1907.5	23.06	22.26	21.14			
		1880.0	23.04	22.21	21.14			
		1852.5	23.05	22.22	21.13			
	1RB_0	1907.5	23.06	22.21	21.16			
		1880.0	23.04	22.21	21.13			
		1852.5	23.06	22.23	21.17			
	12RB_13	1907.5	22.04	21.01	20.00	23.0	22.0	21.0
		1880.0	21.97	20.93	19.92			
		1852.5	21.96	20.92	19.91			
	12RB_6	1907.5	22.05	21.04	20.04			
		1880.0	22.02	20.99	20.01			
		1852.5	21.99	21.01	19.99			
	12RB_0	1907.5	22.07	21.05	20.05			
		1880.0	22.09	21.06	20.09			
		1852.5	22.08	21.04	20.05			
	25RB_0	1907.5	22.07	21.05	19.98			
		1880.0	22.00	21.02	19.94			
		1852.5	22.03	21.02	19.98			

Ant.5 - Power Level A1/C1								
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	22.81	22.24	21.08	24.0	23.0	22.0
		1880.0	23.03	22.17	21.11			
		1855.0	22.98	22.23	21.13			
	1RB_24	1905.0	22.81	22.20	21.05			
		1880.0	23.06	22.18	21.12			
		1855.0	23.04	22.27	21.15			
	1RB_0	1905.0	22.78	22.18	21.06			
		1880.0	23.05	22.15	21.14			
		1855.0	23.02	22.25	21.12			
	25RB_25	1905.0	21.99	21.00	19.89	23.0	22.0	21.0
		1880.0	21.91	20.89	19.84			
		1855.0	21.96	20.98	19.95			
	25RB_12	1905.0	22.02	21.03	19.94			
		1880.0	22.01	20.98	19.93			
		1855.0	22.00	21.02	19.99			
	25RB_0	1905.0	22.15	21.17	20.10			
		1880.0	22.11	21.12	20.07			
		1855.0	22.09	21.10	20.05			
	50RB_0	1905.0	22.09	21.09	20.02			
		1880.0	21.98	20.94	19.93			
		1855.0	22.03	21.02	19.99			

Ant.5 - Power Level A1/C1								
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	22.78	22.17	21.02	24.0	23.0	22.0
		1880.0	22.95	22.16	21.01			
		1857.5	22.92	22.18	21.04			
	1RB_37	1902.5	22.83	22.13	20.99			
		1880.0	23.02	22.13	21.05			
		1857.5	22.98	22.27	21.14			
	1RB_0	1902.5	22.70	22.16	20.93			
		1880.0	22.99	22.14	21.07			
		1857.5	22.97	22.24	21.14			
	36RB_38	1902.5	21.94	20.90	19.85	23.0	22.0	21.0
		1880.0	21.91	20.89	19.89			
		1857.5	22.00	21.00	19.98			
	36RB_19	1902.5	21.97	20.99	19.95			
		1880.0	22.00	21.00	19.94			
		1857.5	21.98	21.01	19.99			
	36RB_0	1902.5	22.05	21.02	20.02			
		1880.0	22.11	21.10	20.07			
		1857.5	22.05	21.06	20.03			
	75RB_0	1902.5	22.01	21.00	19.92			
		1880.0	21.95	20.99	19.90			
		1857.5	22.00	21.02	19.97			

Ant.5 - Power Level A1/C1								
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	22.81	22.11	21.11	24.0	23.0	22.0
		1880.0	22.92	22.16	20.99			
		1860.0	22.96	22.12	20.91			
	1RB_50	1900.0	22.86	22.16	21.12			
		1880.0	23.04	22.19	21.06			
		1860.0	23.03	22.24	21.02			
	1RB_0	1900.0	22.71	22.14	21.02			
		1880.0	22.98	22.18	21.03			
		1860.0	23.00	22.24	20.96			
	50RB_50	1900.0	21.81	20.82	19.72	23.0	22.0	21.0
		1880.0	21.93	20.95	19.88			
		1860.0	22.19	21.12	20.10			
	50RB_25	1900.0	21.99	21.00	19.96			
		1880.0	22.00	21.02	19.97			
		1860.0	22.01	21.00	19.97			
	50RB_0	1900.0	22.00	20.87	19.82			
		1880.0	22.20	21.19	20.12			
		1860.0	22.19	21.12	20.08			
	100RB_0	1900.0	21.87	20.85	19.78			
		1880.0	21.99	20.97	19.88			
		1860.0	22.16	21.10	20.06			

Ant.5 - Power Level B1								
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	20.91	20.20	19.04	22.0	21.0	20.0
		1880.0	20.86	20.13	18.95			
		1850.7	20.82	20.19	18.99			
	1RB_3	1909.3	20.91	20.22	19.03			
		1880.0	20.87	20.17	18.97			
		1850.7	20.88	20.20	18.97			
	1RB_0	1909.3	20.90	20.23	19.06			
		1880.0	20.85	20.15	19.00			
		1850.7	20.84	20.16	18.98			
	3RB_3	1909.3	20.94	19.93	18.98			
		1880.0	20.88	19.87	18.94			
		1850.7	20.85	19.81	18.89			
	3RB_1	1909.3	20.91	19.94	18.99			
		1880.0	20.90	19.90	18.99			
		1850.7	20.87	19.80	18.94			
	3RB_0	1909.3	20.93	19.95	18.97			
		1880.0	20.90	19.86	18.96			
		1850.7	20.86	19.82	18.91			
	6RB_0	1909.3	19.95	19.01	17.91	21.0	20.0	19.0
		1880.0	19.89	18.91	17.85			
		1850.7	19.85	18.89	17.79			

Ant.5 - Power Level B1								
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	20.90	20.19	19.01	22.0	21.0	20.0
		1880.0	20.87	20.18	18.91			
		1851.5	20.83	20.11	18.96			
	1RB_7	1908.5	20.92	20.21	19.05			
		1880.0	20.87	20.13	18.95			
		1851.5	20.87	20.15	18.99			
	1RB_0	1908.5	20.88	20.15	18.97			
		1880.0	20.87	20.14	18.97			
		1851.5	20.85	20.16	18.99			
	8RB_7	1908.5	19.92	18.99	17.92	21.0	20.0	19.0
		1880.0	19.81	18.87	17.91			
		1851.5	19.85	18.91	17.91			
	8RB_4	1908.5	19.94	18.99	17.96			
		1880.0	19.82	18.87	17.89			
		1851.5	19.86	18.90	17.91			
	8RB_0	1908.5	19.98	19.00	17.99			
		1880.0	19.89	18.96	17.95			
		1851.5	19.85	18.91	17.90			
	15RB_0	1908.5	19.90	18.93	17.94			
		1880.0	19.85	18.85	17.85			
		1851.5	19.87	18.85	17.90			

Ant.5 - Power Level B1								
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	20.93	20.21	19.04	22.0	21.0	20.0
		1880.0	20.89	20.16	19.04			
		1852.5	20.90	20.19	19.01			
	1RB_12	1907.5	20.92	20.19	19.05			
		1880.0	20.93	20.19	19.04			
		1852.5	20.90	20.20	19.04			
	1RB_0	1907.5	20.90	20.15	19.03			
		1880.0	20.90	20.16	19.02			
		1852.5	20.93	20.21	19.01			
	12RB_13	1907.5	19.88	18.88	17.91	21.0	20.0	19.0
		1880.0	19.81	18.78	17.84			
		1852.5	19.84	18.81	17.85			
	12RB_6	1907.5	19.94	18.92	17.92			
		1880.0	19.89	18.89	17.95			
		1852.5	19.90	18.88	17.94			
	12RB_0	1907.5	19.96	18.95	18.00			
		1880.0	19.99	18.97	18.00			
		1852.5	19.97	18.92	17.98			
	25RB_0	1907.5	19.94	18.94	17.95			
		1880.0	19.89	18.91	17.90			
		1852.5	19.87	18.87	17.89			

Ant.5 - Power Level B1								
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	20.89	20.14	18.97	22.0	21.0	20.0
		1880.0	20.87	20.13	18.98			
		1855.0	20.85	20.12	18.98			
	1RB_24	1905.0	20.84	20.13	18.99			
		1880.0	20.91	20.18	19.01			
		1855.0	20.89	20.16	19.04			
	1RB_0	1905.0	20.85	20.15	18.99			
		1880.0	20.91	20.14	19.00			
		1855.0	20.88	20.16	19.03			
	25RB_25	1905.0	19.87	18.80	17.76	21.0	20.0	19.0
		1880.0	19.81	18.76	17.75			
		1855.0	19.89	18.88	17.86			
	25RB_12	1905.0	19.90	18.91	17.84			
		1880.0	19.89	18.87	17.86			
		1855.0	19.91	18.87	17.89			
	25RB_0	1905.0	20.02	19.03	17.98			
		1880.0	20.04	19.05	18.01			
		1855.0	19.98	18.98	17.97			
	50RB_0	1905.0	19.97	18.95	17.89			
		1880.0	19.88	18.85	17.86			
		1855.0	19.91	18.91	17.91			

Ant.5 - Power Level B1								
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	20.88	20.17	18.98	22.0	21.0	20.0
		1880.0	20.83	20.13	19.07			
		1857.5	20.85	20.17	19.01			
	1RB_37	1902.5	20.92	20.22	19.02			
		1880.0	20.94	20.20	19.10			
		1857.5	20.90	20.26	19.06			
	1RB_0	1902.5	20.79	20.13	18.96			
		1880.0	20.93	20.17	19.08			
		1857.5	20.89	20.23	19.06			
	36RB_38	1902.5	19.79	18.78	17.76	21.0	20.0	19.0
		1880.0	19.82	18.80	17.84			
		1857.5	19.88	18.90	17.92			
	36RB_19	1902.5	19.89	18.86	17.83			
		1880.0	19.92	18.90	17.90			
		1857.5	19.90	18.93	17.91			
	36RB_0	1902.5	19.90	18.93	17.87			
		1880.0	19.99	19.00	17.98			
		1857.5	19.99	18.97	18.02			
	75RB_0	1902.5	19.90	18.85	17.78			
		1880.0	19.88	18.85	17.85			
		1857.5	19.93	18.93	17.91			

Ant.5 - Power Level B1								
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	20.83	20.13	18.93	22.0	21.0	20.0
		1880.0	20.84	20.17	18.81			
		1860.0	20.82	20.11	18.90			
	1RB_50	1900.0	20.92	20.20	18.89			
		1880.0	20.94	20.21	18.90			
		1860.0	20.92	20.22	18.97			
	1RB_0	1900.0	20.77	20.11	18.74			
		1880.0	20.89	20.17	18.86			
		1860.0	20.87	20.19	18.96			
	50RB_50	1900.0	19.66	18.66	17.60	21.0	20.0	19.0
		1880.0	19.86	18.86	17.84			
		1860.0	20.03	19.06	18.09			
	50RB_25	1900.0	19.84	18.89	17.80			
		1880.0	19.95	18.95	17.95			
		1860.0	19.92	18.95	17.95			
	50RB_0	1900.0	19.86	18.76	17.68			
		1880.0	20.08	19.06	18.09			
		1860.0	20.06	19.07	18.07			
	100RB_0	1900.0	19.73	18.70	17.63			
		1880.0	19.98	18.95	17.89			
		1860.0	20.09	18.90	18.04			

Ant.1 - Power Level A2/B2/C2								
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	23.08	22.16	21.09	24.0	23.0	22.0
		1880.0	23.18	22.22	21.14			
		1850.7	23.29	22.32	21.21			
	1RB_3	1909.3	23.17	22.34	21.17			
		1880.0	23.45	22.46	21.33			
		1850.7	23.34	22.44	21.34			
	1RB_0	1909.3	23.05	22.17	21.09			
		1880.0	23.25	22.36	21.29			
		1850.7	23.18	22.34	21.25			
	3RB_3	1909.3	22.96	22.02	20.97			
		1880.0	23.30	22.30	21.35			
		1850.7	23.28	22.33	21.24			
	3RB_1	1909.3	23.09	22.19	21.13			
		1880.0	23.31	22.26	21.35			
		1850.7	23.41	22.29	21.36			
	3RB_0	1909.3	23.05	21.99	21.00			
		1880.0	23.27	22.29	21.24			
		1850.7	23.26	22.18	21.27			
	6RB_0	1909.3	22.08	21.07	20.18	23.0	22.0	21.0
		1880.0	22.18	21.23	20.38			
		1850.7	22.15	21.38	20.33			

Ant.1 - Power Level A2/B2/C2								
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	23.05	22.17	21.10	24.0	23.0	22.0
		1880.0	23.16	22.22	21.13			
		1851.5	23.29	22.31	21.24			
	1RB_7	1908.5	23.19	22.32	21.14			
		1880.0	23.43	22.49	21.33			
		1851.5	23.30	22.43	21.30			
	1RB_0	1908.5	23.05	22.16	21.07			
		1880.0	23.23	22.37	21.26			
		1851.5	23.17	22.30	21.24			
	8RB_7	1908.5	21.96	20.98	19.96	23.0	22.0	21.0
		1880.0	22.30	21.30	20.36			
		1851.5	22.28	21.30	20.22			
	8RB_4	1908.5	22.12	21.20	20.14			
		1880.0	22.29	21.23	20.33			
		1851.5	22.44	21.31	20.33			
	8RB_0	1908.5	22.04	21.02	20.02			
		1880.0	22.27	21.30	20.21			
		1851.5	22.28	21.17	20.30			
	15RB_0	1908.5	22.05	21.10	20.17			
		1880.0	22.20	21.25	20.36			
		1851.5	22.19	21.41	20.36			

Ant.1 - Power Level A2/B2/C2								
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	23.07	22.13	21.10	24.0	23.0	22.0
		1880.0	23.16	22.22	21.14			
		1852.5	23.27	22.28	21.27			
	1RB_12	1907.5	23.19	22.33	21.16			
		1880.0	23.42	22.47	21.32			
		1852.5	23.31	22.40	21.32			
	1RB_0	1907.5	23.07	22.14	21.07			
		1880.0	23.23	22.34	21.24			
		1852.5	23.15	22.28	21.23			
	12RB_13	1907.5	21.96	20.94	19.93	23.0	22.0	21.0
		1880.0	22.28	21.31	20.36			
		1852.5	22.28	21.26	20.21			
	12RB_6	1907.5	22.10	21.16	20.10			
		1880.0	22.25	21.27	20.32			
		1852.5	22.43	21.34	20.33			
	12RB_0	1907.5	22.07	21.05	20.04			
		1880.0	22.27	21.26	20.20			
		1852.5	22.30	21.19	20.28			
	25RB_0	1907.5	22.02	21.07	20.15			
		1880.0	22.24	21.29	20.37			
		1852.5	22.23	21.38	20.35			

Ant.1 - Power Level A2/B2/C2								
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	23.04	22.17	21.09	24.0	23.0	22.0
		1880.0	23.17	22.21	21.14			
		1855.0	23.25	22.32	21.24			
	1RB_24	1905.0	23.18	22.32	21.12			
		1880.0	23.39	22.47	21.35			
		1855.0	23.28	22.39	21.35			
	1RB_0	1905.0	23.07	22.13	21.05			
		1880.0	23.24	22.34	21.27			
		1855.0	23.15	22.27	21.20			
	25RB_25	1905.0	21.96	20.92	19.95	23.0	22.0	21.0
		1880.0	22.25	21.28	20.32			
		1855.0	22.26	21.27	20.21			
	25RB_12	1905.0	22.08	21.15	20.07			
		1880.0	22.27	21.29	20.35			
		1855.0	22.40	21.35	20.30			
	25RB_0	1905.0	22.10	21.03	20.08			
		1880.0	22.26	21.24	20.20			
		1855.0	22.33	21.19	20.31			
	50RB_0	1905.0	22.05	21.07	20.18			
		1880.0	22.24	21.27	20.34			
		1855.0	22.26	21.35	20.38			

Ant.1 - Power Level A2/B2/C2								
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	23.06	22.15	21.05	22.0	21.0	20.0
		1880.0	23.15	22.18	21.16			
		1857.5	23.22	22.36	21.26			
	1RB_37	1902.5	23.18	22.28	21.16			
		1880.0	23.35	22.43	21.31			
		1857.5	23.31	22.37	21.33			
	1RB_0	1902.5	23.09	22.11	21.04			
		1880.0	23.24	22.31	21.26			
		1857.5	23.16	22.27	21.19			
	36RB_38	1902.5	21.92	20.96	19.94	21.0	20.0	19.0
		1880.0	22.29	21.31	20.30			
		1857.5	22.27	21.25	20.22			
	36RB_19	1902.5	22.07	21.11	20.05			
		1880.0	22.31	21.28	20.34			
		1857.5	22.37	21.32	20.32			
	36RB_0	1902.5	22.12	21.07	20.10			
		1880.0	22.27	21.21	20.19			
		1857.5	22.30	21.22	20.29			
	75RB_0	1902.5	22.02	21.06	20.14			
		1880.0	22.24	21.30	20.31			
		1857.5	22.23	21.36	20.37			

Ant.1 - Power Level A2/B2/C2								
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	23.05	22.12	21.02	22.0	21.0	20.0
		1880.0	23.17	22.22	21.20			
		1860.0	23.25	22.34	21.28			
	1RB_50	1900.0	23.16	22.25	21.13			
		1880.0	23.31	22.40	21.29			
		1860.0	23.33	22.39	21.33			
	1RB_0	1900.0	23.05	22.13	21.04			
		1880.0	23.25	22.33	21.29			
		1860.0	23.19	22.26	21.19			
	50RB_50	1900.0	21.95	20.94	19.92	21.0	20.0	19.0
		1880.0	22.30	21.32	20.29			
		1860.0	22.29	21.24	20.26			
	50RB_25	1900.0	22.09	21.09	20.09			
		1880.0	22.33	21.28	20.30			
		1860.0	22.36	21.34	20.33			
	50RB_0	1900.0	22.09	21.05	20.09			
		1880.0	22.26	21.23	20.19			
		1860.0	22.28	21.23	20.27			
	100RB_0	1900.0	22.01	21.09	20.11			
		1880.0	22.25	21.32	20.32			
		1860.0	22.26	21.33	20.34			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
LTE Band 5			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	23.31	22.64	21.50	24.5	23.5	22.5
		836.5	23.36	22.64	21.55			
		824.7	23.45	22.63	21.54			
	1RB_3	848.3	23.37	22.62	21.51			
		836.5	23.40	22.58	21.53			
		824.7	23.43	22.62	21.50			
	1RB_0	848.3	23.29	22.57	21.52			
		836.5	23.38	22.56	21.53			
		824.7	23.39	22.62	21.50			
	3RB_3	848.3	23.36	22.35	21.41			
		836.5	23.38	22.39	21.45			
		824.7	23.41	22.42	21.50			
	3RB_1	848.3	23.35	22.35	21.42			
		836.5	23.40	22.42	21.49			
		824.7	23.43	22.43	21.52			
	3RB_0	848.3	23.37	22.34	21.45			
		836.5	23.38	22.44	21.49			
		824.7	23.42	22.39	21.54			
	6RB_0	848.3	22.37	21.42	20.34	23.5	22.5	21.5
		836.5	22.38	21.49	20.36			
		824.7	22.42	21.51	20.39			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
LTE Band 5			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	23.32	22.62	21.51	24.5	23.5	22.5
		836.5	23.42	22.65	21.50			
		825.5	23.39	22.69	21.54			
	1RB_7	847.5	23.31	22.60	21.52			
		836.5	23.42	22.64	21.55			
		825.5	23.45	22.68	21.61			
	1RB_0	847.5	23.36	22.63	21.55			
		836.5	23.42	22.67	21.51			
		825.5	23.43	22.70	21.55			
	8RB_7	847.5	22.35	21.43	20.41	23.5	22.5	21.5
		836.5	22.38	21.47	20.44			
		825.5	22.40	21.47	20.44			
	8RB_4	847.5	22.38	21.42	20.41			
		836.5	22.39	21.49	20.43			
		825.5	22.44	21.54	20.47			
	8RB_0	847.5	22.38	21.45	20.42			
		836.5	22.34	21.45	20.43			
		825.5	22.40	21.51	20.46			
	15RB_0	847.5	22.35	21.40	20.35			
		836.5	22.39	21.44	20.43			
		825.5	22.36	21.44	20.42			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
LTE Band 5			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	23.41	22.60	21.52	24.5	23.5	22.5
		836.5	23.43	22.61	21.49			
		826.5	23.46	22.69	21.61			
	1RB_12	846.5	23.43	22.61	21.55			
		836.5	23.44	22.63	21.49			
		826.5	23.47	22.67	21.61			
	1RB_0	846.5	23.38	22.58	21.53			
		836.5	23.42	22.66	21.54			
		826.5	23.45	22.66	21.59			
	12RB_13	846.5	22.38	21.34	20.36	23.5	22.5	21.5
		836.5	22.36	21.35	20.36			
		826.5	22.41	21.42	20.42			
	12RB_6	846.5	22.35	21.39	20.40			
		836.5	22.42	21.47	20.46			
		826.5	22.42	21.45	20.44			
	12RB_0	846.5	22.40	21.44	20.43			
		836.5	22.45	21.49	20.47			
		826.5	22.48	21.47	20.48			
	25RB_0	846.5	22.38	21.42	20.36			
		836.5	22.40	21.45	20.39			
		826.5	22.44	21.48	20.42			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
LTE Band 5			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	23.44	22.61	21.49	24.5	23.5	22.5
		836.5	23.50	22.72	21.57			
		829.0	23.52	22.74	21.59			
	1RB_24	844.0	23.39	22.62	21.47			
		836.5	23.49	22.69	21.55			
		829.0	23.48	22.70	21.62			
	1RB_0	844.0	23.39	22.60	21.46			
		836.5	23.48	22.69	21.60			
		829.0	23.43	22.69	21.58			
	25RB_25	844.0	22.43	21.30	20.25	23.5	22.5	21.5
		836.5	22.46	21.40	20.40			
		829.0	22.48	21.51	20.47			
	25RB_12	844.0	22.34	21.34	20.29			
		836.5	22.44	21.45	20.42			
		829.0	22.41	21.50	20.45			
	25RB_0	844.0	22.42	21.38	20.35			
		836.5	22.45	21.49	20.47			
		829.0	22.45	21.51	20.45			
	50RB_0	844.0	22.39	21.38	20.31			
		836.5	22.44	21.44	20.45			
		829.0	22.45	21.45	20.44			

Ant.1 - Power Level A2/B2/C2								
LTE Band 5			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	23.44	22.54	21.36	24.0	23.0	22.0
		836.5	23.34	22.51	21.43			
		824.7	23.35	22.54	21.32			
	1RB_3	848.3	23.41	22.48	21.45			
		836.5	23.53	22.58	21.42			
		824.7	23.45	22.51	21.40			
	1RB_0	848.3	23.37	22.50	21.31			
		836.5	23.39	22.43	21.47			
		824.7	23.50	22.56	21.41			
	3RB_3	848.3	23.23	22.22	21.38			
		836.5	23.40	22.32	21.34			
		824.7	23.46	22.34	21.36			
	3RB_1	848.3	23.35	22.25	21.37			
		836.5	23.40	22.38	21.43			
		824.7	23.39	22.31	21.44			
	3RB_0	848.3	23.37	22.31	21.39			
		836.5	23.45	22.44	21.42			
		824.7	23.39	22.39	21.44			
	6RB_0	848.3	22.42	21.34	20.34	23.0	22.0	21.0
		836.5	22.48	21.33	20.43			
		824.7	22.48	21.37	20.44			

Ant.1 - Power Level A2/B2/C2								
LTE Band 5			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	23.44	22.53	21.36	24.0	23.0	22.0
		836.5	23.35	22.50	21.41			
		825.5	23.38	22.52	21.30			
	1RB_7	847.5	23.43	22.52	21.42			
		836.5	23.52	22.58	21.45			
		825.5	23.46	22.49	21.43			
	1RB_0	847.5	23.35	22.47	21.30			
		836.5	23.42	22.43	21.43			
		825.5	23.47	22.54	21.41			
	8RB_7	847.5	22.25	21.23	20.34	23.0	22.0	21.0
		836.5	22.43	21.30	20.38			
		825.5	22.43	21.38	20.36			
	8RB_4	847.5	22.32	21.22	20.37			
		836.5	22.40	21.40	20.40			
		825.5	22.43	21.33	20.44			
	8RB_0	847.5	22.39	21.29	20.36			
		836.5	22.47	21.41	20.44			
		825.5	22.42	21.39	20.41			
	15RB_0	847.5	22.42	21.30	20.33			
		836.5	22.49	21.34	20.41			
		825.5	22.48	21.36	20.44			

Ant.1 - Power Level A2/B2/C2								
LTE Band 5			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	23.41	22.50	21.35	24.0	23.0	22.0
		836.5	23.39	22.50	21.41			
		826.5	23.36	22.50	21.33			
	1RB_12	846.5	23.41	22.51	21.43			
		836.5	23.49	22.57	21.47			
		826.5	23.49	22.51	21.42			
	1RB_0	846.5	23.37	22.50	21.32			
		836.5	23.41	22.47	21.40			
		826.5	23.44	22.52	21.39			
	12RB_13	846.5	22.27	21.24	20.31	23.0	22.0	21.0
		836.5	22.41	21.33	20.42			
		826.5	22.44	21.36	20.36			
	12RB_6	846.5	22.32	21.25	20.35			
		836.5	22.43	21.36	20.38			
		826.5	22.40	21.32	20.41			
	12RB_0	846.5	22.41	21.32	20.37			
		836.5	22.44	21.37	20.43			
		826.5	22.42	21.43	20.42			
	25RB_0	846.5	22.39	21.30	20.30			
		836.5	22.48	21.35	20.41			
		826.5	22.48	21.39	20.44			

Ant.1 - Power Level A2/B2/C2								
LTE Band 5			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	23.42	22.50	21.37	24.0	23.0	22.0
		836.5	23.42	22.52	21.44			
		829.0	23.39	22.47	21.34			
	1RB_24	844.0	23.44	22.51	21.43			
		836.5	23.53	22.59	21.51			
		829.0	23.46	22.53	21.45			
	1RB_0	844.0	23.41	22.49	21.36			
		836.5	23.42	22.50	21.39			
		829.0	23.48	22.53	21.42			
	25RB_25	844.0	22.31	21.26	20.29	23.0	22.0	21.0
		836.5	22.43	21.36	20.39			
		829.0	22.42	21.33	20.39			
	25RB_12	844.0	22.35	21.24	20.32			
		836.5	22.41	21.33	20.38			
		829.0	22.43	21.33	20.40			
	25RB_0	844.0	22.39	21.29	20.37			
		836.5	22.47	21.39	20.45			
		829.0	22.44	21.41	20.44			
	50RB_0	844.0	22.42	21.32	20.34			
		836.5	22.48	21.38	20.42			
		829.0	22.46	21.43	20.44			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
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	23.38	22.62	21.53	24.5	23.5	22.5
		707.5	23.42	22.68	21.58			
		699.7	23.44	22.66	21.56			
	1RB_3	715.3	23.39	22.64	21.55			
		707.5	23.45	22.71	21.55			
		699.7	23.44	22.68	21.57			
	1RB_0	715.3	23.37	22.64	21.52			
		707.5	23.44	22.71	21.55			
		699.7	23.40	22.63	21.55			
	3RB_3	715.3	23.42	22.45	21.56			
		707.5	23.47	22.47	21.60			
		699.7	23.48	22.48	21.58			
	3RB_1	715.3	23.42	22.44	21.58			
		707.5	23.44	22.49	21.60			
		699.7	23.41	22.46	21.58			
	3RB_0	715.3	23.38	22.41	21.55			
		707.5	23.42	22.48	21.55			
		699.7	23.42	22.49	21.54			
	6RB_0	715.3	22.48	21.52	20.40	23.5	22.5	21.5
		707.5	22.49	21.57	20.45			
		699.7	22.46	21.54	20.44			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
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	23.41	22.69	21.59	24.5	23.5	22.5
		707.5	23.45	22.70	21.69			
		700.5	23.48	22.75	21.68			
	1RB_7	714.5	23.44	22.70	21.61			
		707.5	23.47	22.73	21.69			
		700.5	23.45	22.72	21.66			
	1RB_0	714.5	23.44	22.68	21.60			
		707.5	23.38	22.71	21.61			
		700.5	23.42	22.72	21.61			
	8RB_7	714.5	22.43	21.50	20.49	23.5	22.5	21.5
		707.5	22.47	21.53	20.50			
		700.5	22.47	21.52	20.49			
	8RB_4	714.5	22.45	21.50	20.47			
		707.5	22.48	21.54	20.53			
		700.5	22.49	21.54	20.48			
	8RB_0	714.5	22.45	21.53	20.50			
		707.5	22.42	21.49	20.45			
		700.5	22.43	21.49	20.47			
	15RB_0	714.5	22.44	21.47	20.44			
		707.5	22.45	21.48	20.43			
		700.5	22.45	21.46	20.47			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
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	23.47	22.71	21.56	24.5	23.5	22.5
		707.5	23.52	22.78	21.65			
		701.5	23.51	22.77	21.70			
	1RB_12	713.5	23.44	22.70	21.58			
		707.5	23.55	22.80	21.66			
		701.5	23.51	22.74	21.68			
	1RB_0	713.5	23.47	22.67	21.54			
		707.5	23.51	22.75	21.67			
		701.5	23.46	22.67	21.61			
	12RB_13	713.5	22.43	21.42	20.44	23.5	22.5	21.5
		707.5	22.52	21.46	20.53			
		701.5	22.47	21.44	20.46			
	12RB_6	713.5	22.48	21.49	20.51			
		707.5	22.47	21.48	20.49			
		701.5	22.51	21.47	20.50			
	12RB_0	713.5	22.54	21.53	20.52			
		707.5	22.41	21.38	20.43			
		701.5	22.49	21.46	20.49			
	25RB_0	713.5	22.47	21.47	20.44			
		707.5	22.48	21.53	20.51			
		701.5	22.50	21.51	20.48			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
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	23.46	22.67	21.56	24.5	23.5	22.5
		707.5	23.50	22.69	21.52			
		704.0	23.52	22.82	21.68			
	1RB_24	711.0	23.41	22.62	21.53			
		707.5	23.49	22.66	21.55			
		704.0	23.45	22.73	21.59			
	1RB_0	711.0	23.34	22.63	21.49			
		707.5	23.36	22.56	21.49			
		704.0	23.43	22.70	21.58			
	25RB_25	711.0	22.42	21.35	20.41	23.5	22.5	21.5
		707.5	22.40	21.39	20.45			
		704.0	22.59	21.63	20.57			
	25RB_12	711.0	22.41	21.40	20.45			
		707.5	22.38	21.39	20.45			
		704.0	22.48	21.53	20.51			
	25RB_0	711.0	22.33	21.27	20.36			
		707.5	22.29	21.28	20.33			
		704.0	22.53	21.54	20.50			
	50RB_0	711.0	22.34	21.32	20.38			
		707.5	22.37	21.37	20.41			
		704.0	22.55	21.54	20.48			

Ant.1 - Power Level A2/B2/C2								
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	23.28	22.43	21.29	24.5	23.5	22.5
		707.5	23.29	22.37	21.32			
		699.7	23.38	22.52	21.34			
	1RB_3	715.3	23.35	22.49	21.29			
		707.5	23.42	22.51	21.41			
		699.7	23.39	22.49	21.38			
	1RB_0	715.3	23.42	22.44	21.33			
		707.5	23.34	22.40	21.40			
		699.7	23.37	22.54	21.40			
	3RB_3	715.3	23.29	22.24	21.27			
		707.5	23.25	22.26	21.31			
		699.7	23.32	22.18	21.36			
	3RB_1	715.3	23.27	22.28	21.36			
		707.5	23.34	22.30	21.39			
		699.7	23.32	22.40	21.40			
	3RB_0	715.3	23.29	22.24	21.37			
		707.5	23.43	22.38	21.29			
		699.7	23.43	22.28	21.39			
	6RB_0	715.3	22.27	21.26	20.34	23.5	22.5	21.5
		707.5	22.38	21.32	20.30			
		699.7	22.47	21.35	20.37			

Ant.1 - Power Level A2/B2/C2								
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	23.26	22.43	21.29	24.5	23.5	22.5
		707.5	23.26	22.37	21.31			
		700.5	23.36	22.50	21.31			
	1RB_7	714.5	23.35	22.46	21.29			
		707.5	23.38	22.52	21.39			
		700.5	23.40	22.48	21.36			
	1RB_0	714.5	23.39	22.43	21.37			
		707.5	23.32	22.37	21.38			
		700.5	23.34	22.57	21.43			
	8RB_7	714.5	22.27	21.22	20.24	23.5	22.5	21.5
		707.5	22.28	21.27	20.35			
		700.5	22.33	21.20	20.38			
	8RB_4	714.5	22.29	21.28	20.36			
		707.5	22.37	21.28	20.40			
		700.5	22.30	21.37	20.37			
	8RB_0	714.5	22.30	21.25	20.39			
		707.5	22.39	21.37	20.33			
		700.5	22.39	21.28	20.39			
	15RB_0	714.5	22.29	21.25	20.32			
		707.5	22.38	21.30	20.33			
		700.5	22.46	21.36	20.35			

Ant.1 - Power Level A2/B2/C2								
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	23.29	22.39	21.27	24.5	23.5	22.5
		707.5	23.26	22.34	21.27			
		701.5	23.33	22.48	21.31			
	1RB_12	713.5	23.32	22.45	21.32			
		707.5	23.41	22.51	21.42			
		701.5	23.39	22.51	21.38			
	1RB_0	713.5	23.40	22.45	21.36			
		707.5	23.33	22.40	21.38			
		701.5	23.37	22.54	21.44			
	12RB_13	713.5	22.27	21.22	20.25	23.5	22.5	21.5
		707.5	22.31	21.25	20.35			
		701.5	22.30	21.23	20.35			
	12RB_6	713.5	22.27	21.26	20.35			
		707.5	22.36	21.29	20.37			
		701.5	22.32	21.35	20.41			
	12RB_0	713.5	22.30	21.24	20.39			
		707.5	22.38	21.34	20.34			
		701.5	22.40	21.30	20.38			
	25RB_0	713.5	22.32	21.26	20.34			
		707.5	22.39	21.29	20.33			
		701.5	22.43	21.38	20.36			

Ant.1 - Power Level A2/B2/C2								
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	22.35	21.27	24.5	23.5	22.5
		707.5	23.29	22.35	21.29			
		704.0	23.36	22.47	21.33			
	1RB_24	711.0	23.33	22.44	21.35			
		707.5	23.38	22.47	21.41			
		704.0	23.42	22.53	21.41			
	1RB_0	711.0	23.37	22.47	21.37			
		707.5	23.31	22.40	21.35			
		704.0	23.41	22.50	21.41			
	25RB_25	711.0	22.26	21.23	20.27	23.5	22.5	21.5
		707.5	22.33	21.28	20.39			
		704.0	22.33	21.27	20.33			
	25RB_12	711.0	22.28	21.25	20.33			
		707.5	22.32	21.32	20.35			
		704.0	22.36	21.34	20.40			
	25RB_0	711.0	22.30	21.28	20.35			
		707.5	22.35	21.33	20.35			
		704.0	22.37	21.34	20.40			
	50RB_0	711.0	22.30	21.28	20.31			
		707.5	22.36	21.33	20.36			
		704.0	22.40	21.38	20.38			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
LTE Band 14			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	795.5	23.42	22.61	21.56	24.5	23.5	22.5
		793.0	23.49	22.69	21.55			
		790.5	23.48	22.72	21.56			
	1RB_12	795.5	23.48	22.66	21.60			
		793.0	23.51	22.74	21.57			
		790.5	23.49	22.76	21.64			
	1RB_0	795.5	23.47	22.67	21.60			
		793.0	23.51	22.75	21.61			
		790.5	23.43	22.67	21.56			
	12RB_13	795.5	22.39	21.37	20.40	23.5	22.5	21.5
		793.0	22.41	21.43	20.41			
		790.5	22.42	21.41	20.47			
	12RB_6	795.5	22.44	21.46	20.48			
		793.0	22.44	21.45	20.43			
		790.5	22.46	21.46	20.43			
	12RB_0	795.5	22.51	21.50	20.54			
		793.0	22.47	21.47	20.50			
		790.5	22.39	21.43	20.45			
	25RB_0	795.5	22.43	21.48	20.44			
		793.0	22.43	21.45	20.44			
		790.5	22.42	21.48	20.45			

Ant.5 - Power Level A1/B1/C1/A2/B2/C2								
LTE Band 14			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	793.0	23.50	22.73	21.54	24.5	23.5	22.5
	1RB_24	793.0	23.54	22.73	21.61			
	1RB_0	793.0	23.49	22.74	21.55			
	25RB_25	793.0	22.37	21.39	20.33	23.5	22.5	21.5
	25RB_12	793.0	22.44	21.52	20.45			
	25RB_0	793.0	22.46	21.48	20.45			
	50RB_0	793.0	22.44	21.47	20.48			

Ant.1 - Power Level A2								
LTE Band 14			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	795.5	21.45	21.57	21.44	22.0	22.0	22.0
		793.0	21.47	21.54	21.52			
		790.5	21.53	21.55	21.48			
	1RB_12	795.5	21.46	21.56	21.49			
		793.0	21.52	21.59	21.43			
		790.5	21.46	21.58	21.48			
	1RB_0	795.5	21.49	21.56	21.47			
		793.0	21.52	21.63	21.52			
		790.5	21.44	21.55	21.45			
	12RB_13	795.5	21.41	21.38	20.44	22.0	22.0	21.0
		793.0	21.44	21.40	20.46			
		790.5	21.45	21.36	20.40			
	12RB_6	795.5	21.34	21.43	20.47			
		793.0	21.47	21.48	20.43			
		790.5	21.41	21.34	20.41			
	12RB_0	795.5	21.36	21.36	20.44			
		793.0	21.43	21.40	20.50			
		790.5	21.34	21.38	20.43			
	25RB_0	795.5	21.44	21.33	20.42			
		793.0	21.45	21.35	20.31			
		790.5	21.45	21.38	20.45			

Ant.1 - Power Level A2								
LTE Band 14			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	793.0	21.44	21.48	21.48	22.0	22.0	22.0
	1RB_24	793.0	21.46	21.49	21.46			
	1RB_0	793.0	21.40	21.46	21.42			
	25RB_25	793.0	21.33	21.35	20.42	22.0	22.0	21.0
	25RB_12	793.0	21.39	21.42	20.45			
	25RB_0	793.0	21.28	21.33	20.38			
	50RB_0	793.0	21.40	21.42	20.36			

Ant.1 - Power Level B2/C2								
LTE Band 14			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	795.5	23.45	22.56	21.44	24.0	23.0	22.0
		793.0	23.50	22.55	21.52			
		790.5	23.49	22.56	21.47			
	1RB_12	795.5	23.45	22.58	21.45			
		793.0	23.52	22.59	21.45			
		790.5	23.48	22.55	21.44			
	1RB_0	795.5	23.48	22.58	21.48			
		793.0	23.55	22.63	21.49			
		790.5	23.45	22.53	21.45			
	12RB_13	795.5	22.41	21.39	20.47	23.0	22.0	21.0
		793.0	22.44	21.42	20.48			
		790.5	22.42	21.36	20.38			
	12RB_6	795.5	22.37	21.40	20.46			
		793.0	22.47	21.46	20.44			
		790.5	22.38	21.35	20.45			
	12RB_0	795.5	22.39	21.35	20.48			
		793.0	22.46	21.43	20.48			
		790.5	22.37	21.39	20.44			
	25RB_0	795.5	22.44	21.34	20.39			
		793.0	22.46	21.34	20.35			
		790.5	22.46	21.36	20.41			

Ant.1 - Power Level B2/C2								
LTE Band 14			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	793.0	23.48	22.54	21.47	24.0	23.0	22.0
	1RB_24	793.0	23.52	22.59	21.48			
	1RB_0	793.0	23.47	22.56	21.44			
	25RB_25	793.0	22.41	21.38	20.45	23.0	22.0	21.0
	25RB_12	793.0	22.47	21.45	20.46			
	25RB_0	793.0	22.41	21.37	20.42			
	50RB_0	793.0	22.47	21.35	20.37			

Ant.5 - Power Level A1								
LTE Band 30			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	2312.5	22.77	21.94	20.81	24.0	23.0	22.0
		2310.0	22.74	21.95	20.88			
		2307.5	22.72	21.91	20.86			
	1RB_12	2312.5	22.77	21.92	20.89			
		2310.0	22.75	21.96	20.87			
		2307.5	22.75	21.94	20.83			
	1RB_0	2312.5	22.72	21.90	20.85			
		2310.0	22.64	21.86	20.78			
		2307.5	22.64	21.83	20.74			
	12RB_13	2312.5	21.64	20.63	19.65	23.0	22.0	21.0
		2310.0	21.65	20.61	19.62			
		2307.5	21.63	20.64	19.65			
	12RB_6	2312.5	21.70	20.70	19.72			
		2310.0	21.71	20.68	19.71			
		2307.5	21.65	20.65	19.66			
	12RB_0	2312.5	21.81	20.80	19.81			
		2310.0	21.70	20.67	19.71			
		2307.5	21.57	20.54	19.59			
	25RB_0	2312.5	21.71	20.73	19.71			
		2310.0	21.72	20.70	19.68			
		2307.5	22.77	21.94	20.81			

Ant.5 - Power Level A1								
LTE Band 30			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	2310.0	22.72	21.96	20.88	24.0	23.0	22.0
	1RB_24	2310.0	22.71	21.90	20.90			
	1RB_0	2310.0	22.61	21.81	20.73			
	25RB_25	2310.0	21.59	20.59	19.58	23.0	22.0	21.0
	25RB_12	2310.0	21.66	20.67	19.66			
	25RB_0	2310.0	21.59	20.59	19.58			
	50RB_0	2310.0	21.50	20.48	19.43			

Ant.5 - Power Level B1								
LTE Band 30			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	2312.5	18.49	17.82	16.74	20.0	19.0	18.0
		2310.0	18.45	17.77	16.71			
		2307.5	18.44	17.83	16.65			
	1RB_12	2312.5	18.49	17.82	16.70			
		2310.0	18.46	17.84	16.71			
		2307.5	18.47	17.84	16.69			
	1RB_0	2312.5	18.46	17.81	16.70			
		2310.0	18.40	17.79	16.63			
		2307.5	18.35	17.71	16.59			
	12RB_13	2312.5	17.45	16.42	15.45	19.0	18.0	17.0
		2310.0	17.41	16.38	15.47			
		2307.5	17.48	16.45	15.47			
	12RB_6	2312.5	17.50	16.48	15.50			
		2310.0	17.47	16.44	15.50			
		2307.5	17.43	16.41	15.44			
	12RB_0	2312.5	17.57	16.55	15.58			
		2310.0	17.41	16.39	15.45			
		2307.5	17.35	16.34	15.35			
	25RB_0	2312.5	17.50	16.51	15.51			
		2310.0	17.50	16.47	15.49			
		2307.5	17.46	16.48	15.44			

Ant.5 - Power Level B1								
LTE Band 30			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	2310.0	18.49	17.80	16.67	20.0	19.0	18.0
	1RB_24	2310.0	18.46	17.82	16.67			
	1RB_0	2310.0	18.36	17.71	16.56			
	25RB_25	2310.0	17.37	16.41	15.35	19.0	18.0	17.0
	25RB_12	2310.0	17.44	16.45	15.48			
	25RB_0	2310.0	17.33	16.34	15.31			
	50RB_0	2310.0	17.48	16.45	15.43			

Ant.5 - Power Level C1								
LTE Band 30			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	2312.5	19.62	18.93	17.85	21.0	20.0	19.0
		2310.0	19.62	18.94	17.81			
		2307.5	19.59	18.89	17.79			
	1RB_12	2312.5	19.62	18.94	17.85			
		2310.0	19.62	18.95	17.84			
		2307.5	19.61	18.89	17.81			
	1RB_0	2312.5	19.61	18.96	17.84			
		2310.0	19.56	18.86	17.76			
		2307.5	19.55	18.81	17.69			
	12RB_13	2312.5	18.52	17.56	16.59	20.0	19.0	18.0
		2310.0	18.52	17.54	16.56			
		2307.5	18.57	17.60	16.63			
	12RB_6	2312.5	18.60	17.61	16.63			
		2310.0	18.58	17.64	16.63			
		2307.5	18.53	17.57	16.56			
	12RB_0	2312.5	18.68	17.73	16.71			
		2310.0	18.54	17.58	16.53			
		2307.5	18.45	17.46	16.44			
	25RB_0	2312.5	18.59	17.63	16.64			
		2310.0	18.59	17.63	16.61			
		2307.5	18.57	17.59	16.59			

Ant.5 - Power Level C1								
LTE Band 30			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	2310.0	19.62	18.93	17.80	21.0	20.0	19.0
	1RB_24	2310.0	19.62	18.94	17.79			
	1RB_0	2310.0	19.51	18.82	17.68			
	25RB_25	2310.0	18.47	17.50	16.50	20.0	19.0	18.0
	25RB_12	2310.0	18.56	17.59	16.58			
	25RB_0	2310.0	18.44	17.48	16.46			
	50RB_0	2310.0	18.57	17.58	16.57			

Ant.1 - Power Level A2								
LTE Band 30			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	2312.5	16.03	16.10	15.99	17.0	17.0	17.0
		2310.0	16.07	16.09	16.12			
		2307.5	16.04	16.02	15.96			
	1RB_12	2312.5	16.08	16.13	16.08			
		2310.0	16.06	16.09	16.11			
		2307.5	16.04	16.03	15.98			
	1RB_0	2312.5	16.03	16.06	16.00			
		2310.0	16.10	16.16	16.10			
		2307.5	16.06	16.05	15.92			
	12RB_13	2312.5	16.01	15.89	15.97	17.0	17.0	17.0
		2310.0	16.01	16.00	15.99			
		2307.5	15.96	15.93	15.88			
	12RB_6	2312.5	15.95	15.91	15.98			
		2310.0	16.03	16.00	16.01			
		2307.5	16.01	15.91	15.93			
	12RB_0	2312.5	15.99	15.94	15.91			
		2310.0	16.02	15.99	16.00			
		2307.5	15.96	15.90	15.89			
	25RB_0	2312.5	15.96	16.01	15.88			
		2310.0	16.02	16.02	15.96			
		2307.5	15.93	16.02	15.96			

Ant.1 - Power Level A2								
LTE Band 30			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	2310.0	16.04	16.12	16.10	17.0	17.0	17.0
	1RB_24	2310.0	16.12	16.18	16.17			
	1RB_0	2310.0	16.01	16.07	16.04			
	25RB_25	2310.0	16.05	16.11	16.08	17.0	17.0	17.0
	25RB_12	2310.0	16.09	16.13	16.11			
	25RB_0	2310.0	16.02	16.05	16.09			
	50RB_0	2310.0	16.06	16.09	16.12			

Ant.1 - Power Level B2/C2								
LTE Band 30			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	2312.5	19.16	19.24	19.12	20.0	20.0	20.0
		2310.0	19.26	19.24	19.25			
		2307.5	19.16	19.15	19.12			
	1RB_12	2312.5	19.22	19.29	19.27			
		2310.0	19.26	19.23	19.28			
		2307.5	19.18	19.19	19.17			
	1RB_0	2312.5	19.18	19.19	19.18			
		2310.0	19.24	19.32	19.25			
		2307.5	19.24	19.18	19.12			
	12RB_13	2312.5	19.20	19.09	19.15	20.0	20.0	20.0
		2310.0	19.14	19.14	19.17			
		2307.5	19.13	19.09	19.07			
	12RB_6	2312.5	19.10	19.03	19.13			
		2310.0	19.18	19.17	19.18			
		2307.5	19.13	19.03	19.11			
	12RB_0	2312.5	19.15	19.13	19.10			
		2310.0	19.20	19.18	19.17			
		2307.5	19.09	19.05	19.06			
	25RB_0	2312.5	19.10	19.16	19.05			
		2310.0	19.22	19.14	19.14			
		2307.5	19.06	19.21	19.08			

Ant.1 - Power Level B2/C2								
LTE Band 30			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	2310.0	19.17	19.26	19.28	20.0	20.0	20.0
	1RB_24	2310.0	19.26	19.38	19.31			
	1RB_0	2310.0	19.20	19.22	19.22			
	25RB_25	2310.0	19.21	19.28	19.28	20.0	20.0	20.0
	25RB_12	2310.0	19.24	19.31	19.31			
	25RB_0	2310.0	19.15	19.20	19.25			
	50RB_0	2310.0	19.25	19.23	19.25			

Ant.6 - Power Level A1								
LTE Band 48			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	3697.5	17.58	16.62	15.33	19.0	18.0	17.0
		3649.2	17.40	16.49	15.18			
		3600.8	17.83	16.89	15.61			
		3552.5	18.19	17.26	15.99			
	1RB_12	3697.5	17.63	16.66	15.41			
		3649.2	17.46	16.52	15.23			
		3600.8	17.88	16.94	15.66			
		3552.5	18.25	17.29	16.00			
	1RB_0	3697.5	17.58	16.66	15.39			
		3649.2	17.52	16.56	15.48			
		3600.8	17.91	16.97	15.71			
		3552.5	18.28	17.34	16.07			
	12RB_13	3697.5	16.56	15.53	14.59	18.0	17.0	16.0
		3649.2	16.40	15.36	14.43			
		3600.8	16.81	15.74	14.80			
		3552.5	17.21	16.15	15.23			
	12RB_6	3697.5	16.59	15.52	14.60			
		3649.2	16.46	15.41	14.44			
		3600.8	16.81	15.78	14.82			
		3552.5	17.25	16.20	15.25			
	12RB_0	3697.5	16.63	15.56	14.56			
		3649.2	16.50	15.46	14.47			
		3600.8	16.91	15.86	14.88			
		3552.5	17.30	16.24	15.24			
	25RB_0	3697.5	16.59	15.62	14.63			
		3649.2	16.48	15.49	14.52			
		3600.8	16.88	15.87	14.88			
		3552.5	17.30	16.31	15.29			

Ant.6 - Power Level A1								
LTE Band 48			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	3695.0	17.52	16.58	15.29	19.0	18.0	17.0
		3648.3	17.36	16.37	15.13			
		3601.7	17.76	16.78	15.54			
		3555.0	18.07	17.14	15.88			
	1RB_24	3695.0	17.58	16.65	15.35			
		3648.3	17.46	16.53	15.26			
		3601.7	17.86	16.89	15.65			
		3555.0	18.26	17.27	16.01			
	1RB_0	3695.0	17.61	16.65	15.36			
		3648.3	17.52	16.56	15.30			
		3601.7	17.93	16.98	15.72			
		3555.0	18.25	17.36	16.06			
	25RB_25	3695.0	16.55	15.60	14.60	18.0	17.0	16.0
		3648.3	16.42	15.39	14.42			
		3601.7	16.84	15.86	14.86			
		3555.0	17.12	16.17	15.21			
	25RB_12	3695.0	16.56	15.61	14.58			
		3648.3	16.43	15.45	14.49			
		3601.7	16.83	15.86	14.86			
		3555.0	17.25	16.26	15.29			
	25RB_0	3695.0	16.64	15.63	14.66			
		3648.3	16.49	15.53	14.51			
		3601.7	16.89	15.90	14.96			
		3555.0	17.24	16.27	15.30			
	50RB_0	3695.0	16.60	15.58	14.55			
		3648.3	16.46	15.45	14.40			
		3601.7	16.89	15.88	14.89			
		3555.0	17.24	16.25	15.21			

Ant.6 - Power Level A1								
LTE Band 48			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	3692.5	17.45	16.53	15.23	19.0	18.0	17.0
		3647.5	17.31	16.37	15.06			
		3602.5	17.68	16.76	15.47			
		3557.5	17.96	17.06	15.80			
	1RB_37	3692.5	17.51	16.59	15.28			
		3647.5	17.46	16.53	15.26			
		3602.5	17.84	16.93	15.62			
		3557.5	18.20	17.28	15.96			
	1RB_0	3692.5	17.52	16.58	15.30			
		3647.5	17.54	16.57	15.31			
		3602.5	17.93	16.99	15.69			
		3557.5	18.25	17.29	16.07			
	36RB_38	3692.5	16.55	15.53	14.50	18.0	17.0	16.0
		3647.5	16.38	15.28	14.31			
		3602.5	16.79	15.76	14.76			
		3557.5	17.11	16.03	15.03			
	36RB_19	3692.5	16.55	15.51	14.53			
		3647.5	16.43	15.33	14.37			
		3602.5	16.86	15.81	14.83			
		3557.5	17.15	16.13	15.12			
	36RB_0	3692.5	16.50	15.50	14.53			
		3647.5	16.49	15.49	14.47			
		3602.5	16.91	15.88	14.89			
		3557.5	17.23	16.20	15.16			
	75RB_0	3692.5	16.55	15.54	14.50			
		3647.5	16.42	15.41	14.36			
		3602.5	16.85	15.82	14.80			
		3557.5	17.17	16.18	15.17			

Ant.6 - Power Level A1								
LTE Band 48			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	3690.0	17.39	16.49	15.19	19.0	18.0	17.0
		3646.7	17.23	16.28	15.15			
		3603.3	17.60	16.68	15.40			
		3560.0	17.97	17.04	15.75			
	1RB_50	3690.0	17.53	16.59	15.29			
		3646.7	17.56	16.53	15.23			
		3603.3	17.92	16.93	15.64			
		3560.0	18.23	17.19	15.88			
	1RB_0	3690.0	17.49	16.55	15.29	18.0	17.0	16.0
		3646.7	17.53	16.61	15.32			
		3603.3	17.91	16.98	15.71			
		3560.0	18.21	17.32	16.02			
	50RB_50	3690.0	16.48	15.52	14.49			
		3646.7	16.42	15.43	14.39			
		3603.3	16.80	15.80	14.76			
		3560.0	17.11	16.09	15.07			
	50RB_25	3690.0	16.56	15.57	14.53			
		3646.7	16.50	15.49	14.43			
		3603.3	16.90	15.88	14.86			
		3560.0	17.17	16.15	15.11			
	50RB_0	3690.0	16.57	15.62	14.55			
		3646.7	16.55	15.59	14.57			
		3603.3	16.94	15.93	14.92			
		3560.0	17.26	16.28	15.24			
	100RB_0	3690.0	16.51	15.54	14.50			
		3646.7	16.45	15.43	14.38			
		3603.3	16.83	15.82	14.79			
		3560.0	17.18	16.16	15.11			

Ant.6 - Power Level B1								
LTE Band 48			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	3697.5	22.50	21.52	20.24	24.0	23.0	22.0
		3649.2	22.28	21.33	20.05			
		3600.8	22.64	21.69	20.38			
		3552.5	22.99	21.99	20.72			
	1RB_12	3697.5	22.56	21.55	20.27			
		3649.2	22.35	21.37	20.10			
		3600.8	22.67	21.68	20.44			
		3552.5	23.00	22.00	20.74			
	1RB_0	3697.5	22.54	21.52	20.27			
		3649.2	22.35	21.38	20.02			
		3600.8	22.72	21.71	20.49			
		3552.5	23.05	22.03	20.77			
	12RB_13	3697.5	21.48	20.42	19.49	23.0	22.0	21.0
		3649.2	21.25	20.19	19.27			
		3600.8	21.58	20.56	19.61			
		3552.5	21.92	20.86	19.92			
	12RB_6	3697.5	21.50	20.43	19.48			
		3649.2	21.28	20.27	19.31			
		3600.8	21.64	20.57	19.60			
		3552.5	21.99	20.91	19.99			
	12RB_0	3697.5	21.49	20.45	19.49			
		3649.2	21.34	20.31	19.35			
		3600.8	21.71	20.61	19.69			
		3552.5	22.01	20.99	19.99			
	25RB_0	3697.5	21.50	20.53	19.54			
		3649.2	21.33	20.34	19.41			
		3600.8	21.63	20.66	19.67			
		3552.5	21.99	21.02	20.04			

Ant.6 - Power Level B1								
LTE Band 48			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	3695.0	22.47	21.47	20.19	24.0	23.0	22.0
		3648.3	22.25	21.29	20.08			
		3601.7	22.60	21.63	20.32			
		3555.0	22.88	21.89	20.59			
	1RB_24	3695.0	22.51	21.49	20.23			
		3648.3	22.34	21.38	20.13			
		3601.7	22.68	21.71	20.40			
		3555.0	22.98	22.00	20.74			
	1RB_0	3695.0	22.51	21.52	20.24			
		3648.3	22.41	21.42	20.13			
		3601.7	22.72	21.76	20.51			
		3555.0	23.04	22.06	20.78			
	25RB_25	3695.0	21.49	20.51	19.50	23.0	22.0	21.0
		3648.3	21.23	20.25	19.34			
		3601.7	21.64	20.65	19.64			
		3555.0	21.89	20.90	19.89			
	25RB_12	3695.0	21.49	20.52	19.50			
		3648.3	21.33	20.38	19.34			
		3601.7	21.64	20.62	19.68			
		3555.0	21.96	20.98	20.00			
	25RB_0	3695.0	21.49	20.51	19.54			
		3648.3	21.40	20.40	19.39			
		3601.7	21.70	20.70	19.72			
		3555.0	22.00	21.01	20.01			
	50RB_0	3695.0	21.48	20.53	19.50			
		3648.3	21.31	20.32	19.30			
		3601.7	21.69	20.70	19.69			
		3555.0	21.98	20.99	19.97			

Ant.6 - Power Level B1								
LTE Band 48			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	3692.5	22.44	21.45	20.22	24.0	23.0	22.0
		3647.5	22.21	21.25	20.11			
		3602.5	22.55	21.59	20.15			
		3557.5	22.80	21.88	20.23			
	1RB_37	3692.5	22.47	21.49	20.51			
		3647.5	22.31	21.36	20.18			
		3602.5	22.67	21.71	20.11			
		3557.5	22.92	21.99	20.39			
	1RB_0	3692.5	22.46	21.51	20.70			
		3647.5	22.37	21.39	20.17			
		3602.5	22.67	21.74	20.16			
		3557.5	23.00	22.04	20.42			
	36RB_38	3692.5	21.46	20.48	20.76	23.0	22.0	21.0
		3647.5	21.26	20.28	19.41			
		3602.5	21.60	20.59	19.16			
		3557.5	21.87	20.88	19.53			
	36RB_19	3692.5	21.44	20.48	19.79			
		3647.5	21.31	20.31	19.42			
		3602.5	21.59	20.62	19.24			
		3557.5	21.92	20.96	19.63			
	36RB_0	3692.5	21.49	20.51	19.86			
		3647.5	21.32	20.32	19.43			
		3602.5	21.69	20.76	19.33			
		3557.5	21.96	20.98	19.67			
	75RB_0	3692.5	21.47	20.46	19.95			
		3647.5	21.31	20.29	19.39			
		3602.5	21.67	20.69	19.26			
		3557.5	21.94	20.97	19.61			

Ant.6 - Power Level B1								
LTE Band 48			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	3690.0	22.32	21.26	20.11	24.0	23.0	22.0
		3646.7	22.05	21.08	20.09			
		3603.3	22.38	21.43	20.23			
		3560.0	22.67	21.75	20.51			
	1RB_50	3690.0	22.43	21.40	20.18			
		3646.7	22.61	21.31	20.11			
		3603.3	22.63	21.65	20.39			
		3560.0	22.93	21.89	20.70			
	1RB_0	3690.0	22.42	21.36	20.17			
		3646.7	22.38	21.39	20.16			
		3603.3	22.60	21.71	20.42			
		3560.0	22.81	21.98	20.76			
	50RB_50	3690.0	21.38	20.35	19.41	23.0	22.0	21.0
		3646.7	21.21	20.24	19.16			
		3603.3	21.53	20.52	19.53			
		3560.0	21.80	20.78	19.79			
	50RB_25	3690.0	21.43	20.39	19.42			
		3646.7	21.29	20.27	19.24			
		3603.3	21.67	20.66	19.63			
		3560.0	21.83	20.85	19.86			
	50RB_0	3690.0	22.44	20.42	19.43			
		3646.7	21.40	20.39	19.33			
		3603.3	21.68	20.64	19.67			
		3560.0	21.94	20.95	19.95			
	100RB_0	3690.0	21.33	20.36	19.39			
		3646.7	21.26	20.24	19.26			
		3603.3	21.54	20.59	19.61			
		3560.0	21.85	20.82	19.87			

Ant.6 - Power Level C1								
LTE Band 48			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	3697.5	20.18	19.42	18.39	22.0	21.0	20.0
		3649.2	20.08	19.10	18.11			
		3600.8	20.27	19.53	18.12			
		3552.5	20.76	19.97	18.53			
	1RB_12	3697.5	20.27	19.42	18.19			
		3649.2	20.51	19.25	18.15			
		3600.8	20.75	19.92	18.43			
		3552.5	21.10	20.12	18.86			
	1RB_0	3697.5	20.33	19.39	18.04			
		3649.2	20.37	19.40	18.34			
		3600.8	20.60	20.09	18.71			
		3552.5	21.12	20.36	18.95			
	12RB_13	3697.5	19.33	18.28	17.44	21.0	20.0	19.0
		3649.2	19.17	18.27	17.34			
		3600.8	19.76	18.68	17.79			
		3552.5	19.99	18.81	18.14			
	12RB_6	3697.5	19.28	18.56	17.56			
		3649.2	19.40	18.54	17.29			
		3600.8	19.77	18.66	17.80			
		3552.5	19.97	19.12	17.94			
	12RB_0	3697.5	19.33	18.62	17.47			
		3649.2	19.44	18.43	17.48			
		3600.8	19.83	18.80	17.78			
		3552.5	20.13	19.16	18.11			
	25RB_0	3697.5	19.42	18.40	17.39			
		3649.2	19.33	18.32	17.33			
		3600.8	19.72	18.71	17.71			
		3552.5	20.06	19.03	18.02			

Ant.6 - Power Level C1								
LTE Band 48			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	3695.0	20.24	19.42	18.26	22.0	21.0	20.0
		3648.3	20.08	19.09	18.19			
		3601.7	20.36	19.62	18.24			
		3555.0	20.80	20.03	18.62			
	1RB_24	3695.0	20.31	19.43	18.13			
		3648.3	20.48	19.30	18.06			
		3601.7	20.69	19.84	18.47			
		3555.0	21.00	20.15	18.81			
	1RB_0	3695.0	20.31	19.37	18.07			
		3648.3	20.32	19.41	18.32			
		3601.7	20.67	19.97	18.61			
		3555.0	21.10	20.31	18.86			
	25RB_25	3695.0	19.39	18.40	17.40	21.0	20.0	19.0
		3648.3	19.26	18.21	17.25			
		3601.7	19.70	18.62	17.72			
		3555.0	20.00	18.86	18.02			
	25RB_12	3695.0	19.37	18.58	17.47			
		3648.3	19.41	18.42	17.24			
		3601.7	19.67	18.68	17.83			
		3555.0	19.97	19.00	18.04			
	25RB_0	3695.0	19.35	18.52	17.58			
		3648.3	19.44	18.43	17.48			
		3601.7	19.83	18.80	17.78			
		3555.0	20.13	19.16	18.11			
	50RB_0	3695.0	19.42	18.40	17.39			
		3648.3	19.33	18.32	17.33			
		3601.7	19.72	18.71	17.71			
		3555.0	20.06	19.03	18.02			