FCC SAR Compliance Test Report

For

TECNO MOBILE LIMITED

ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17

CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

Model: T349

Test Engineer:	Stars Liang	
Report Number:	FCC16073806-4	
Report Date:	2016-08-04	
FCC ID:	2ADYY-T349	
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REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Relesse	2016-08-04	Hank Huang
REV.1.1	Modify attachments and report issues	2016-08-18	Hank Huang

Modified History

1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 Application details

Date of receipt of test item:	2016-07-14
Start of test:	2016-07-16
End of test:	2016-07-17

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for T349 is as below:

Band	Position	MAX Reported SAR1g (W/kg)
C SM950	Head	0.782
GSIM850	Body 10mm	0.818
CSM1000	Head	0.320
63111900	Body 10mm	0.468
The highest simultaneous SAR is 0.856W/kg per KDB690783 D01		

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontraolled exposure limits of 1.6 W/Kg as averaged over any 1g tissue according to the FCC rule §2.1093, the ANSI/IEEE C95.1:2005, the NCRP Report Number 86 for uncontrolled environment, according to the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

1.4 EUT Information

Device Information:			
Product Type:	Product Type: Mobile Phone		
Model:	T349		
Device Type:	Portable device		
Exposure Category:	uncontrolled enviror	nment / genera	I population
Production Unit or Identical Prototype:	Production Unit		
Hardware version:	PCBA_MB_DL181_	V00_MTK	
Software version :	T349-DL181-SAM-2	20160702	
Antenna Type :	Internal Antenna		
Device Operating Configurations:			
Supporting Mode(s) :	GSM850/1900 , BT		
Modulation:	GMSK, GFSK/π/4-DQPSK/ 8-DPSK		
Device Class :	Class B, No DTM Mode		
	Band	TX(MHz)	RX(MHz)
Onersting Frequency Dense(a)	GSM850	824~849	869~894
Operating Frequency Range(S)	GSM1900	1850~1910	1930~1990
	ВТ	2402~2480	2402~2480
GPRS class level:	GPRS class 12		
	128-190-251(GSM850)		
Test Channels (low-mid-high):	512-661-810(GSM1900)		
Power Source:	3.7 V/1150mAh Rechargeable Battery		

2 Testing laboratory

Test Site	QTC Certification & Testing Co., Ltd.
Tact Location	2nd Floor, BI Building, Fengyeyuan Industrial Plant,, Liuxian 2st. Road, Xin'an
Test Location	Street, Bao'an District,,Shenzhen,518000
Telephone	+86-755-26996144 EXT:8164
Fax	+86-755-26996253

3 Test Environment

	Required	Actual
Ambient temperature:	18 – 25 °C	22 ± 2 °C
Tissue Simulating liquid:	22 ± 2 °C	22 ± 2 °C
Relative humidity content:	30 – 70 %	30 – 70 %

4 Applicant and Manufacturer

Applicant/Client Name:	TECNO MOBILE LIMITED
Applicant Address:	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer Name:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Address:	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China

5 Test standards:

ANSI Std C95.1-2005	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
IEEE Std 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
RSS-102	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands (Issue 5 March 2015)
KDB447498 D01	General RF Exposure Guidance v06
KDB648474 D04	Head set SAR v01r03
KDB865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB865664 D02	RF Exposure Reporting v01r02

5.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain/Body/Arms/Legs)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Head s/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

The limit applied in this test report is shown in bold letters

Notes:

- The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- ** The Spatial Average value of the SAR averaged over the whole body.
- *** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.

5.2 SAR Definition

Specific Absorption Rate is defined as 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).

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

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

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

where:

 σ = conductivity of the tissue (S/m)

 ρ = mass density of the tissue (kg/m³)

E = rms electric field strength (V/m)

6 SAR Measurement System

6.1 The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Device holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

The COMOSAR system uses the high precision robots KR 6 R900 sixx type out of the newer series from Satimo SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from Satimo is used. The KR 6 R900 sixx robot series have many features that are important for

our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller

6.3 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE 5 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 5 mm
- Distance between probe tip and sensor center: 2.5mm
- Distance between sensor center and the inner phantom surface: 4 mm

(repeatability better than +/- 1mm)

- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.50 dB
- Calibration range: 300 to 2600MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and suface normal line:less than 30°

6.4 Measurement procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface.
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors can not directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8
 * 5 or 8 * 4 or 5 mm.With these data, the peak spatial-average SAR value can be calculated.

6.5 Description of interpolation/extrapolation scheme

- The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.
- An extrapolation is using to determinate this highest local SAR values.
 The extrapolation is based on afourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.
- The measurements have to be performed over a limited time(due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR average over 10 grams and 1gram requires a very fine resolution in the three dimensional scanned data array.

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

6.7 Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



Device holder

System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

6.8 Video Positioning System

- The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.
- During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.
- The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



6.9 Tissue simulating liquids: dielectric properties

The following materials are used for producing the tissue-equivalent materials.

Ingredients(% of weight)	Frequency (MHz)								
frequency band	450	🖂 835	1800	🖂 1900	2450				
Tissue Type	Head	Head	Head	Head	Head				
Water	38.56	41.45	52.64	55.242	62.7				
Salt (NaCl)	3.95	1.45	0.36	0.306	0.5				
Sugar	56.32	56.0	0.0	0.0	0.0				
HEC	0.98	1.0	0.0	0.0	0.0				
Bactericide	0.19	0.1	0.0	0.0	0.0				
Triton X-100	0.0	0.0	0.0	0.0	36.8				
DGBE	0.0	0.0	47.0	44.542	0.0				
Ingredients(% of weight)			Frequency (I	MHz)					
frequency band	450	🛛 835	1800	🖂 1900	2450				
Tissue Type	Body	Body	Body	Body	Body				
Water	51.16	52.4	69.91	69.91	73.2				
Salt (NaCl)	1.49	1.40	0.13	0.13	0.04				
Sugar	46.78	45.0	0.0	0.0	0.0				
HEC	0.52	1.0	0.0	0.0	0.0				
Bactericide	0.05	0.1	0.0	0.0	0.0				
Triton X-100	0.0	0.0	0.0	0.0	0.0				
DGBE	0.0	0.0	29.96	29.96	26.7				

(Liquids used for tests are marked with \boxtimes):

Salt: 99+% Pure Sodium Chloride

Sugar: 98+% Pure Sucrose

Water: De-ionized, $16M\Omega$ + resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

6.10 Tissue simulating liquids: parameters

Tissue	Measured	Target T	ïssue	Measur	ed Tissue	Liquid	
Туре	Frequency (MHz)	ε _r (+/-5%)	σ (S/m) (+/-5%)	٤ _r	σ (S/m)	Temp.	Test Date
	825	41.60 (39.52~43.68)	0.90 (0.86~0.95)	41.51	0.89		
835MHz Head	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	41.50	0.90	21.6°C	2016-7-16
850	41.50 (39.43~43.58)	0.92 (0.87~0.97)	41.35	0.92			
	825	55.20 (52.44~57.96)	0.97 (0.92~1.02)	55.26	0.95		
835MHz Body	835	55.20 (52.44~57.96)	0.97 (0.92~1.02)	55.25	0.97	21.6°C	2016-7-16
	850	55.20 (52.44~57.96)	0.99 (0.94~1.04)	55.10	0.99		
	1850	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.79	1.41		
1900MHz	1880	40.00 (38.00~42.00)	1.40 (1.33~1.47)	40.09	1.39	21.6%	2016 7 19
Head	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.73	1.41	21.0 C	2010-7-18
	1910	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.40	1.43		
	1850	53.30 (50.64~55.97)	1.52 (1.44~1.60)	53.22	1.52		
1900MHz	1880	53.30 (50.64~55.97)	1.52 (1.44~1.60)	53.54	1.51	01.000	2010 7 19
Body	1900	53.30 (50.64~55.97)	1.52 (1.44~1.60)	53.15	1.53	21.0 0	2010-7-18
	1910	53.30 (50.64~55.97)	1.52 (1.44~1.60)	53.86	1.55		
		ε _r = Relative	permittivity, σ=	- Conducti	vity		

7 System Check

7.1 System check procedure

The System check is performed by using a System check dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the System check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during

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the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



7.2 System check results

The system Check is performed for verifying the accuracy of the complete measurement system and performance of the software. The following table shows System check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

System Check	Target SAR (Measur (Normaliz	ed SAR ed to 1W)	Liquid	Test Date	
System Check	1-g (mW/g)	10-g (mW/g)	1-g (mW/g)	10-g (mW/g)	Temp.	Test Date
D835V2 Head	9.56 (8.60~10.52)	6.19 (5.57~6.81)	9.135	5.912	21.6°C	2016-7-16
D1900V2 Head	39.46 (35.51~43.41)	20.42 (18.38~22.46)	41.144	20.622	21.6°C	2016-7-18
D835V2 Body	9.86 (8.87~10.85)	6.38 (5.74~7.02)	9.607	6.227	21.6°C	2016-7-16
D1900V2 Body	40.06 (36.05~44.07)	20.76 (18.68~22.84)	42.785	21.448	21.6°C	2016-7-18
	Note: All SAR	values are norma	lized to 1W	forward pov	wer.	

8 SAR Test Test Configuration

8.1 **GSM** Test Configurations

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using CMU200 the power lever is set to "5" and "0" in SAR of GSM850 and GSM1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5.

9 Detailed Test Results

9.1 Conducted Power measurements

The output power was measured using an integrated RF connector and attached RF cable.

9.1.1 Conducted Power of GSM850

GSM850(SIM1)		Burst-Averaged output Power (dBm)			Division	Source Based time Average Power(dBm)		
	. ,	128CH	128CH 190CH 251CH		Factors	128CH	190CH	251CH
GSI	M(CS)	33.25	33.36	33.30	-9.03	24.22	24.33	24.27
	1 Tx Slot	33.23	33.27	33.34	-9.03	24.20	24.24	24.31
GPRS	2 Tx Slots	32.21	32.38	32.41	-6.02	26.19	26.36	26.39
(GMSK)	3 Tx Slots	30.42	30.49	30.51	-4.26	26.16	26.23	26.25
	4 Tx Slots	29.66	29.46	29.68	-3.01	26.65	26.45	26.67

GSM850(SIM2)		Burst-Averaged output Power (dBm)			Division	Source Based time Average Power(dBm)		
		128CH 190CH 251CH		Factors	128CH	190CH	251CH	
GSI	M(CS)	33.20	33.37	33.38	-9.03	24.17	24.34	24.35
	1 Tx Slot	33.26	33.31	33.42	-9.03	24.23	24.28	24.39
GPRS	2 Tx Slots	32.18	32.33	32.37	-6.02	26.16	26.31	26.35
(GMSK)	3 Tx Slots	30.31	30.46	30.32	-4.26	26.05	26.20	26.06
	4 Tx Slots	29.70	29.58	29.56	-3.01	26.69	26.57	26.55

Note: 1) The conducted power of GSM850 is measured with RMS detector.

2) Source Based time Average Power was calculated from the measured burst-averaged output

power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

3)The bolded GPRS 4Tx slots mode was selected for SAR testing according the highest Source

Based time Average Power table.

4) channel /Frequency: 128/824.2; 190/836.6; 251/848.8

5) For Dual SIM Operation, when the power of deviation of SIM1 and SIM2 not more than 0.5dB,

which tested SIM1 mode first, and then tested SIM2 mode at the worst position from SIM1 mode .

GSM1900(SIM1)		Burst-Averaged output Power (dBm)			Division	Source Based time Average Power(dBm)		
			661CH	810CH	Factors	512CH	661CH	810CH
GSN	M(CS)	30.56	30.51	30.31	-9.03	21.53	21.48	21.28
	1 Tx Slot	30.61	30.47	30.49	-9.03	21.58	21.44	21.46
GPRS	2 Tx Slots	29.39	29.38	29.27	-6.02	23.37	23.36	23.25
(GMSK)	3 Tx Slots	27.34	27.18	27.19	-4.26	23.08	22.92	22.93
	4 Tx Slots	26.49	26.59	26.43	-3.01	23.48	23.58	23.42

9.1.2 Conducted Power of GSM1900

GSM1900(SIM2)		Burst-Averaged output Power (dBm)			Division	Source Based time Average Power(dBm)		
	· · ·	512CH 661CH 810CH Fac		Factors	512CH	661CH	810CH	
GSI	M(CS)	30.54	30.50	30.36	-9.03	21.51	21.47	21.33
	1 Tx Slot	30.67	30.47	30.50	-9.03	21.64	21.44	21.47
GPRS	2 Tx Slots	29.34	29.42	29.23	-6.02	23.32	23.40	23.21
(GMSK)	3 Tx Slots	27.33	27.24	27.24	-4.26	23.07	22.98	22.98
	4 Tx Slots	26.49	26.57	26.61	-3.01	23.48	23.56	23.60

Note: 1) The conducted power of GSM1900 is measured with RMS detector.

2) Source Based time Average Power was calculated from the measured burst-averaged output

power by converting the slot powers into linear units and calculating the energy over 8 timeslots.

3)The bolded GPRS 4Tx slots mode was selected for SAR testing according the highest Source

Based time Average Power table.

4) channel /Frequency: 512/1850.2; 661/1880; 810/1909.8

5) For Dual SIM Operation, when the power of deviation of SIM1 and SIM2 not more than 0.5dB,

which tested SIM1 mode first, and then tested SIM2 mode at the worst position from SIM1 mode .

9.1.3 Conducted Power of BT

The maximum output power of BT is:

	Average Conducted Power (dBm)						
BT	0CH	39CH	78CH				
	2.16	2.64	2.61				

Note: 1) channel /Frequency:0/2402,39/2441,78/2480.

9.2 SAR test results

Notes:

1) Per KDB447498 D01v05 r02,the SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the scaled SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

2) Per KDB447498 D01v05r02, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

3) Per KDB447498 D01v05r02, All measurement SAR result is scaled-up to account for tune-up tolerance is compliant.

4) Per KDB648474 D04v01r02, body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn with headset SAR.

6) Per KDB865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is \geq 0.8W/Kg; if the deviation among the repeated measurement is \leq 20%, and the measured SAR <1.45W/Kg, only one repeated measurement is required.

7) Per KDB865664 D02v01r01, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing(Refer to appendix B for details).

9.2.1 Results overview of GSM850

Test Position	Test	Test	SAR (W/	Value /kg)	Power	Condu cted	Tune-up	Scaled	Conver
of Head	/Freq.(MHz)	Mode	1-g	10-g	(%)	Power (dBm)	(dBm)	(W/kg)	factor
			SI	M1 Card	Slot	· · ·			
Left Head Touched	190/836.6	GSM	0.485	0.340	1.750	31.940	32.000	0.492	4.93
Left Head Tilted 15°	190/836.6	GSM	0.315	0.261	1.250	31.940	32.000	0.319	4.93
Right Head Touched	190/836.6	GSM	0.461	0.300	0.160	31.940	32.000	0.467	4.93
Right Head Tilted 15°	190/836.6	GSM	0.291	0.184	-2.800	31.940	32.000	0.295	4.93
Left Head Touched	128/824.2	GSM	0.305	0.197	1.530	31.940	32.000	0.309	4.93
Left Head Touched	251/848.8	GSM	0.771	0.449	1.840	31.940	32.000	0.782	4.93
	·		SI	M2 Card	Slot				
Left Head Touched	251/848.8	GSM	0.354	0.310	-1.280	31.940	32.000	0.359	4.93
Test Position	Test	Test	SAR (W/	Value /kg)	Power	Condu cted	Tune-up	Scaled	Conver
Test Position of Body with 10mm	Test channel /Freq.(MHz)	Test Mode	SAR (W/ 1-g	Value /kg) 10-g	Power Drift (%)	Condu cted Power (dBm)	Tune-up Limit (dBm)	Scaled SAR _{1-g} (W/kg)	Conver sion factor
Test Position of Body with 10mm	Test channel /Freq.(MHz)	Test Mode	SAR (W/ 1-g	Value /kg) 10-g M1 Card	Power Drift (%) Slot	Condu cted Power (dBm)	Tune-up Limit (dBm)	Scaled SAR _{1-g} (W/kg)	Conver sion factor
Test Position of Body with 10mm Towards Phantom	Test channel /Freq.(MHz) 190/836.6	Test Mode GPRS 4TS	SAR (W/ 1-g SI 0.727	Value /kg) 10-g M1 Card 0.610	Power Drift (%) Slot -0.360	Condu cted Power (dBm) 29.490	Tune-up Limit (dBm) 30.000	Scaled SAR _{1-g} (W/kg) 0.818	Conver sion factor
Test Position of Body with 10mm Towards Phantom Towards Ground	Test channel /Freq.(MHz) 190/836.6 190/836.6	Test Mode GPRS 4TS GPRS 4TS	SAR (W/ 1-g SII 0.727 0.699	Value /kg) 10-g M1 Card 0.610 0.485	Power Drift (%) Slot -0.360 1.700	Condu cted Power (dBm) 29.490 29.490	Tune-up Limit (dBm) 30.000 30.000	Scaled SAR _{1-g} (W/kg) 0.818 0.786	Conver sion factor 5.07 5.07
Test Position of Body with 10mm Towards Phantom Towards Ground Towards Phantom	Test channel /Freq.(MHz) 190/836.6 190/836.6 128/824.2	Test Mode GPRS 4TS GPRS 4TS GPRS 4TS	SAR (W/ 1-g SI 0.727 0.699 0.648	Value /kg) 10-g M1 Card 0.610 0.485 0.454	Power Drift (%) Slot -0.360 1.700 -4.590	Condu cted Power (dBm) 29.490 29.490 29.490	Tune-up Limit (dBm) 30.000 30.000 30.000	Scaled SAR _{1-g} (W/kg) 0.818 0.786 0.729	Conver sion factor 5.07 5.07 5.07
Test Position of Body with 10mm Towards Phantom Towards Ground Towards Phantom Towards Phantom	Test channel /Freq.(MHz) 190/836.6 190/836.6 128/824.2 251/848.8	Test Mode GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS	SAR (W) 1-g SII 0.727 0.699 0.648 0.696	Value /kg) 10-g M1 Card 0.610 0.485 0.454 0.481	Power Drift (%) Slot -0.360 1.700 -4.590 1.340	Condu cted Power (dBm) 29.490 29.490 29.490 29.490	Tune-up Limit (dBm) 30.000 30.000 30.000 30.000	Scaled SAR _{1-g} (W/kg) 0.818 0.786 0.729 0.783	Conver sion factor 5.07 5.07 5.07
Test Position of Body with 10mm Towards Phantom Towards Ground Towards Phantom Towards Phantom Towards Phantom Wards Phantom with Headset	Test channel //Freq.(MHz) 190/836.6 190/836.6 128/824.2 251/848.8 190/836.6 190/836.6	Test Mode GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS GSM	SAR (W) 1-g SI 0.727 0.699 0.648 0.696 0.460	Value /kg) 10-g M1 Card 0.610 0.485 0.454 0.481 0.296	Power Drift (%) Slot -0.360 1.700 -4.590 1.340 2.490	Condu cted Power (dBm) 29.490 29.490 29.490 29.490 31.940	Tune-up Limit (dBm) 30.000 30.000 30.000 30.000 30.000 30.000	Scaled SAR _{1-g} (W/kg) 0.818 0.786 0.729 0.783 0.466	Conver sion factor 5.07 5.07 5.07 5.07 5.07
Test Position of Body with 10mm Towards Phantom Towards Ground Towards Phantom Towards Phantom Towards Phantom Towards Phantom with Headset	Test channel /Freq.(MHz) 190/836.6 190/836.6 128/824.2 251/848.8 190/836.6	Test Mode GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS GSM	SAR (W/ 1-g SII 0.727 0.699 0.648 0.696 0.460 SII	Value /kg) 10-g M1 Card 0.610 0.485 0.454 0.481 0.296 M2 Card	Power Drift (%) Slot -0.360 1.700 -4.590 1.340 2.490 Slot	Condu cted Power (dBm) 29.490 29.490 29.490 29.490 31.940	Tune-up Limit (dBm) 30.000 30.000 30.000 30.000 30.000 30.000	Scaled SAR _{1-g} (W/kg) 0.818 0.786 0.729 0.783 0.466	Conver sion factor 5.07 5.07 5.07 5.07 5.07

9.2.2 Results overview of GSM1900

Test Position of	Test channel	Test	SAR (W/	Value /kg)	Power Drift	Conducted Power	Tune-up Limit	Scaled SAR ₁₋₀	Convers ion	
Head	/Freq.(MHz)	Mode	1-g	10-g	(%)	(dBm)	(dBm)	(W/kg)	factor	
				SIM1	Card Slot					
Left Head Touched	661/1880	GSM	0.123	0.049	1.300	29.410	30.000	0.141	4.63	
Left Head Tilted 15°	661/1880	GSM	0.243	0.107	2.420	29.410	30.000	0.278	4.63	
Right Head Touched	661/1880	GSM	0.135	0.057	-2.340	29.410	30.000	0.155	4.63	
Right Head Tilted 15°	661/1880	GSM	0.234	0.107	4.150	29.410	30.000	0.268	4.63	
Left Head Tilted 15°	512/1850.2	GSM	0.279	0.126	0.090	29.410	30.000	0.320	4.63	
Left Head Tilted 15°	810/1909.8	GSM	0.222	0.100	-3.220	29.410	30.000	0.254	4.63	
				SIM2	Card Slot					
Left Head Tilted 15°	512/1850.2	GSM	0.126	0.131	1.620	29.410	30.000	0.144	4.63	
Test Position of	Test	Test	SAR (W/	Value 'kg)	Power	Conducted	Tune-up	Scaled	Convers	
Body with	Channel	Mode			DIIIL	Fower			16 31 1	
10mm 10mm 10mm (abiii) (abiii) (abiii) SIM1 Card Slot										
10mm	/Freq.(MHz)	Mode	1-g	10-g SIM1 ((%) Card Slot	(dBm)	(dBm)	(W/kg)	factor	
10mm Towards Phantom	/Freq.(MHz) 661/1880	GPRS 4TS	1-g 0.068	10-g SIM1 0.034	(%) Card Slot 0.000	(dBm) 26.210	(dBm) 27.000	(W/kg)	4.78	
10mm Towards Phantom Towards Ground	/Freq.(MHz) 661/1880 661/1880	GPRS 4TS GPRS 4TS	1-g 0.068 0.119	10-g SIM1 0.034 0.051	(%) Card Slot 0.000 0.000	(dBm) 26.210 26.210	(dBm) 27.000 27.000	(W/kg)	4.78 4.78	
10mm Towards Phantom Towards Ground Towards Ground	/Freq.(MHz) 661/1880 661/1880 512/1850.2	GPRS 4TS GPRS 4TS GPRS 4TS	1-g 0.068 0.119 0.254	10-g SIM1 0 0.034 0.051 0.130	(%) Card Slot 0.000 0.000 1.220	(dBm) 26.210 26.210 26.210	(dBm) 27.000 27.000 27.000	(W/kg) 0.082 0.143 0.305	4.78 4.78 4.78 4.78	
10mm Towards Phantom Towards Ground Towards Ground Towards Ground	/Freq.(MHz) 661/1880 661/1880 512/1850.2 810/1909.8	GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS	1-g 0.068 0.119 0.254 0.183	10-g SIM1 0 0.034 0.051 0.130 0.079	(%) Card Slot 0.000 0.000 1.220 -1.560	(dBm) 26.210 26.210 26.210 26.210	(dBm) 27.000 27.000 27.000 27.000	(W/kg) 0.082 0.143 0.305 0.220	4.78 4.78 4.78 4.78 4.78	
10mm Towards Phantom Towards Ground Towards Ground Towards Ground Towards Ground with Headset	/Freq.(MHz) 661/1880 661/1880 512/1850.2 810/1909.8 512/1850.2	GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS GSM	1-g 0.068 0.119 0.254 0.183 0.390	10-g SIM1 0 0.034 0.051 0.130 0.079 0.188	(%) Card Slot 0.000 0.000 1.220 -1.560 3.010	(dBm) 26.210 26.210 26.210 26.210 26.210	(dBm) 27.000 27.000 27.000 27.000 27.000	(W/kg) 0.082 0.143 0.305 0.220 0.468	4.78 4.78 4.78 4.78 4.78 4.78 4.78	
10mm Towards Phantom Towards Ground Towards Ground Towards Ground towards Ground with Headset	/Freq.(MHz) 661/1880 661/1880 512/1850.2 810/1909.8 512/1850.2	GPRS 4TS GPRS 4TS GPRS 4TS GPRS 4TS GSM	1-g 0.068 0.119 0.254 0.183 0.390	10-g SIM1 0.034 0.051 0.130 0.079 0.188 SIM2	(%) Card Slot 0.000 0.000 1.220 -1.560 3.010 Card Slot	(dBm) 26.210 26.210 26.210 26.210 26.210	(dBm) 27.000 27.000 27.000 27.000 27.000	(W/kg) 0.082 0.143 0.305 0.220 0.468	4.78 4.78 4.78 4.78 4.78 4.78 4.78	

10 Multiple Transmitter Information

The SAR measurement positions of each side are as below:

Mode	Front Side	Rear Side	Left Side	Right Side	Top Side	Bottom Side
2G Antenna	Yes	Yes	No	No	No	No

1) Per KDB941225 D06v01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

10.1.1 Stand-alone SAR test exclusion

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

• f(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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Body-Worn position

Mode	Pmax(dBm)	Pmax(mW)	Distance(mm)	f(GHz)	Calculation Result	exclusion Threshold	SAR test exclusion
BT	2.64	1.84	10.00	2.450	0.29	3.00	Yes

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When the standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)]·[$\sqrt{f}(GHz)/x$] W/kg for test separation distances \leq 50 mm, where x = 7.5 for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine

SAR test exclusion.

Mode	Position	Pmax(dBm)	Pmax(mW)	Distance(mm)	f(GHz)	X	Estimated SAR(W/Kg)
BT	Body	2.64	1.84	10.00	2.45	7.50	0.038

10.1.2 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities are as below:

Simultaneous Transmission Possibilities							
Simultaneous Tx Combination	Configuration	Head	Body				
1	GSM/GPRS +BT	No	YES				

10.1.3 SAR Summation Scenario

	Test Position	Scaled	SAR _{Max}	7 SAD		
		GSM850 BT			JF LJF	
Body	Towards Phantom	0.818	0.038	0.856	NA	
	Towards Ground	0.786	0.038	0.824	NA	
	Towards Phantom with headset	0.466	0.038	0.504	NA	
	Towards Ground with beadset	/	/	/	NA	

Note: Simultaneous Tx Combination of GSM850 and BT

	Tost Position	Scaled	SAR _{Max}	T. SAP		
		GSM1900 BT			JF LJF	
	Towards Phantom	0.068	0.038	0.106	NA	
	Towards Ground	0.254	0.038	0.292	NA	
Body	Towards Phantom with headset	/	/	/	NA	
	Towards Ground with headset	0.390	0.038	0.428	NA	

Note: Simultaneous Tx Combination of GSM1900 and BT

MAX. Σ SAR_{1g} = 0.856W/kg<1.6 W/kg, so the Simultaneous SAR is not required for BT antenna.

11 Measurement uncertainty evaluation

11.1 Measurement uncertainty evaluation for SAR test

The following table includes the uncertainty table of the IEEE 1528. The values are determined by Satimo. The breakdown of the individual uncertainties is as follows:

Measurement Uncertainty evaluation for SAR test								
Incertainty Component	Tol.	Prob.	Div	Ci	Ci	1g U _i	10g U _i	V.
	(±%)	Dist.		(1g)	(10g)	(±%)	(±%)	v I
measurement system		- NI			-			
Probe Calibration	5.8	N	1	1	$\frac{1}{(1-2)^{1/2}}$	5.8	5.8	∞
Axial Isotropy	3.5	R	_√3	(1-C _p) ^{1/2}	(1-C _p) ^{1/2}	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	_√3	√Cp	√C _p	2.41	2.41	8
Boundary Effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	8
system Detection Limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	8
Modulation response	3	Ν	1	1	1	3.00	3.00	8
Readout Electronics	0.5	N	1	1	1	0.50	0.50	8
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	8
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	8
RF Ambient Conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	8
RF Ambient Conditions-	0	D		4	4	4 70	4 70	
Reflections	3	R	$\sqrt{3}$	Ĩ	Ĩ	1.73	1.73	8
Probe Positioner Mechanical	14	R	<u>,</u> [3	1	1	0.81	0.81	8
Tolerance	1.7		γ3	-	-	0.01	0.01	
Probe positioning with respect to Phantom Shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	8
Extrapolation, interpolation and Integration Algorithms for	2.3	R	<u>√3</u>	1	1	1.33	1.33	8
Max.SAR Evaluation	2.0		40		•			
Test sample Related							1	
Test Sample Positioning	2.6	N	1	1	1	2.60	2.60	11
Device Holder Uncertainty	3	Ν	1	1	1	3.00	3.00	7
Output Power Variation-SAR drift	5	R	$\sqrt{3}$	1	1	2.89	2.89	8
	2	D		1	1	1 15	1 15	~
Phantom and Tissue Parameters	2		73		I	1.15	1.15	~
Phantom Uncertainty	[_					
(shape and thickness tolerances)	4	R	√3	1	1	2.31	2.31	8
Uncertainty in SAR correction for								
deviation	2	Ν	1	1	0.84	2.00	1.68	∞
(in permittivity and conductivity)								
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.60	1.08	5
Liquid conductivity (target.)	5	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	5
Liquid Permittivity (meas.)	2.5	Ν	1	0.60	0.49	1.50	1.23	8
Liquid Permittivity (target.)	5	R	√3	0.60	0.49	1.73	1.42	8
Combined Standard Uncertainly		Rss				10.63	10.54	
Expanded Uncertainty (95%								
CONFIDENCE INTERRVAL		K				21.26	21.08	

11.2 Measurement uncertainty evaluation for system check

The following table includes the uncertainty table of the IEEE 1528. The values are determined by Satimo. The breakdown of the individual uncertainties is as follows:

Uncertainty For System Performance Check									
Uncertainty Component	Tol.	Prob.	Div.	Ci	Ci	1g	10g	Vi	
		Dist.		1g	10g	U _i (±%)	U _i (±%)	•	
Probe Calibration	5.8	N	1	1	1	5.80	5.80	∞	
Axial Isotropy	3.5	R	<u></u>	$(1-C_{\rm r})^{1/2}$	$(1-C_{r})^{1/2}$	1 43	1 43	∞	
Hemispherical Isotropy	5.9	R		(1 O _p) √C ₂	(1 O _p) √C ₂	2 41	2 41	∞	
Boundary Effect	1	R	<u>√</u> 3	, Ο _ρ	1	0.58	0.58	∞	
	47	R		1	1	2 71	2 71	∞	
system detection Limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	8	
Modulation response	0	N	1	1	1	0.00	0.00	8	
Readout Electronics	0.5	N	1	1	1	0.50	0.50	8	
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	8	
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	8	
RF ambient Conditions - Noise	3	R	√3	1	1	1.73	1.73	∞	
RF ambient Conditions – Reflections	3	R	√3	1	1	1.73	1.73	8	
Probe positioned Mechanical Tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	8	
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	8	
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	8	
Dipole									
Deviation of experimental source from numerical source	4	Ν	1	1	1	4.00	4.00	8	
Input power and SAR drift measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	8	
Dipole axis to liquid Distance	2	R	$\sqrt{3}$	1	1	1.16	1.16	8	
Phantom and Tissue Parameters			•						
Phantom Uncertainty (shape and thickness tolerances)	4	R	$\sqrt{3}$	1	1	2.31	2.31	8	
Uncertainty in SAR correction for deviation (in permittivity and conductivity)	2	Ν	1	1	0.84	2.00	1.68	8	
Liquid conductivity (meas.)	2.5	Ν	1	0.64	0.43	1.60	1.08	5	
Liquid conductivity (target.)	5	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	5	
Liquid Permittivity (meas.)	2.5	Ν	1	0.60	0.49	1.50	1.23	8	
Liquid Permittivity (target.)	5	R	$\sqrt{3}$	0.60	0.49	1.73	1.41	8	
Combined Standard Uncertainty		Rss				10.28	9.98		
Expanded Uncertainty (95% Confidence interval)		k				20.57	19.95		

12 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

	Manufact		Type(Model)	Serial number	calibration		
	urer	Device Type			Last Cal.	Due Date	
\boxtimes	SATIMO	COMOSAR DOSIMETRIC E FIELD PROBE	SSE5	SN 09/13 EP170	2015-08-25	2016-08-26	
\boxtimes	SATIMO	COMOSAR 835 MHz REFERENCE DIPOLE	SID835	SN 14/13 DIP0G835-235	2015-08-25	2016-08-26	
	SATIMO	COMOSAR 900 MHz REFERENCE DIPOLE	SID900	SN 14/13 DIP0G900-231	2015-08-25	2016-08-26	
	SATIMO	COMOSAR 1800 MHz REFERENCE DIPOLE	SID1800	SN 14/13 DIP1G800-232	2015-08-25	2016-08-26	
\boxtimes	SATIMO	COMOSAR 1900 MHz REFERENCE DIPOLE	SID1900	SN 14/13 DIP1G900-236	2015-08-25	2016-08-26	
	SATIMO	COMOSAR 2000 MHz REFERENCE DIPOLE	SID2000	SN 14/13 DIP2G000-237	2015-08-25	2016-08-26	
	SATIMO	COMOSAR 2450 MHz REFERENCE DIPOLE	SID2450	SN 14/13 DIP2G450-238	2015-09-15	2016-09-14	
	SATIMO	COMOSAR 2600 MHz REFERENCE DIPOLE	SID2600	SN 28/14 DIP2G600-327	2015-08-25	2016-08-26	
\boxtimes	SATIMO	Software	OPENSAR	N/A	N/A	N/A	
\boxtimes	SATIMO	Phantom	COMOSAR IEEE SAM PHANTOM	SN 14/13 SAM99	N/A	N/A	
\boxtimes	R&S	Universal Radio Communication Tester	CMU 200	117528	2015-08-19	2016-08-18	
\boxtimes	HP	Network Analyser	8753D	3410A08889	2015-08-19	2016-08-18	
\boxtimes	HP	Signal Generator	E4421B	GB39340770	2015-08-19	2016-08-18	
\square	Keithley	Multimeter	Keithley 2000	4014539	2015-08-19	2016-08-18	
\boxtimes	SATIMO	Amplifier	Power Amplifier	MODU-023-A- 0004	2015-10-13	2016-10-12	
\square	Agilent	Power Meter	E4418B	GB43312909	2015-10-13	2016-10-12	
\square	Agilent	Power Meter Sensor	E4412A	MY41500046	2015-10-13	2016-10-12	
\square	Agilent	Power Meter	E4417A	GB41291826	2015-10-13	2016-10-12	
\square	Agilent	Power Meter Sensor	8481H	MY41091215	2015-10-13	2016-10-12	

Annex A: System performance verification

(Please See the SAR Measurement Plots of annex A.)

Annex B: Measurement results

(Please See the SAR Measurement Plots of annex B.)

Annex C: Calibration reports

(Please See the Calibration reports of annex C.)

Photo 2: Front view Photo 1: Measurement System OPENSAR 10 11 12 13 14 15 16 17 18 4 5 6 7 8 9 2 3 5 STANLESS STEEL 6 4 16 INCH 1 3 2 32 Photo 3: Rear View Photo 4: Left Head Touched 3 4 5 6 7 8 9 10 11 12 13 14 15 CIT 1 2 2 3 Ą INCH 1

Annex D: Photo documentation

SAR Evaluation Report



SAR Evaluation Report



SAR Evaluation Report



End