FCC SAR Test Report

Report No. : FA142611

APPLICANT : Motorola Mobility LLC

: Mobile Phone **EQUIPMENT**

BRAND NAME : Motorola **MODEL NAME** : XT2155-1

FCC ID : IHDT56ZW4

STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International (Kunshan) Inc, would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Nick Hu / Supervisor

Approved by: Kat Yin / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 1 of 60

Table of Contents

Report No. : FA142611

Issued Date : Jun. 24, 2021 Form version. : 200414

1. Statement of Compliance	
2. Administration Data	
3. Guidance Applied	5
4. Equipment Under Test (EUT) Information	
4.1 General Information	6
4.2 General LTE SAR Test and Reporting Considerations	7
5. RF Exposure Limits	9
5.1 Uncontrolled Environment	9
5.2 Controlled Environment	9
6. Specific Absorption Rate (SAR)	10
6.1 Introduction	
6.2 SAR Definition	
7. System Description and Setup	11
7.1 E-Field Probe	12
7.2 Data Acquisition Electronics (DAE)	12
7.3 Phantom	13
7.4 Device Holder	
8. Measurement Procedures	15
8.1 Spatial Peak SAR Evaluation	
8.2 Power Reference Measurement	16
8.3 Area Scan	
8.4 Zoom Scan	
8.5 Volume Scan Procedures	
8.6 Power Drift Monitoring	
9. Test Equipment List	
10. System Verification	
10.1 Tissue Simulating Liquids	19
10.2 Tissue Verification	
10.3 System Performance Check Results	
11. RF Exposure Positions	22
11.1 Ear and handset reference point	
11.2 Definition of the cheek position	
11.3 Definition of the tilt position	
11.4 Body Worn Accessory	
11.5 Product Specific 10g SAR Exposure	
11.6 Wireless Router	26
12. Conducted RF Output Power (Unit: dBm)	
13. Antenna Location	36
14. SAR Test Results	37
14.1 Head SAR	40
14.2 Hotspot SAR	43
14.3 Body Worn Accessory SAR	47
14.4 Product specific 10g SAR	50
14.5 Repeated SAR Measurement	51
15. Simultaneous Transmission Analysis	
15.1 Head Exposure Conditions	53
15.2 Hotspot Exposure Conditions	
15.3 Body-Worn Accessory Exposure Conditions	55
15.4 Product specific 10g SAR Exposure Conditions	
15.5 SPLSR Evaluation and Analysis	
16. Uncertainty Assessment	
17. References	
Appendix A. Plots of System Performance Check	
Appendix B. Plots of High SAR Measurement	
Appendix C. DASY Calibration Certificate	
Appendix D. Test Setup Photos	
Appendix E. Conducted RF Output Power Table	

Revision History

Report No. : FA142611

		<u>, </u>					
REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE				
FA142611	Rev. 01	Initial issue of report	Jun. 24, 2021				

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 3 of 60

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Motorola Mobility LLC, Mobile Phone, XT2155-1, are as follows.

Report No.: FA142611

Highest 1g SAR Summary									
Equipment Class			uency ind		Head (Separation 0mm)	Hotspot (Separation 5mm) 1g SAR (W/kg	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)	
			GSM850		0.23	0.66	<u> </u>		
	G	SM	GSM1900		<0.10	1.18			
			Band		0.30	1.16	1.42		
	WC	DMA	Band		0.30	1.24	1.14		
Licensed	VVC	DIVIA	Band		0.20		0.99	1.59	
Licensed						0.99		1.59	
			Band		0.23	1.23	1.38		
	Ľ	TΕ	Band 5		0.19	0.75	0.75		
			Band 7		0.12	1.33	1.33		
5.70			Band 66/		0.22	1.13	1.10	4.50	
DTS		_AN	2.4GHz		1.32	1.32	0.81	1.59	
DSS	Blue	luetooth 2.4GHz Bl			0.20	0.17	0.17	1.59	
			High	nest 10g S	AR Summary	1		10.1	
Equipment Class				uency and		(W	cific 10g SAR /kg) tion 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)	
		G:	SM GS		SM1900	1.02			
	Licensed -		D. 4.0	Band II		1.37			
1.5			DMA	В	and IV	1.	1.12		
Licens				В	and 2	1.	1.68		
			ΓE	В	and 7	3	.06		
				Band	Band 66/Band 4		1.43		
DTS	S	WL	-AN	2.4G	2.4GHz WLAN 1.40			3.06	
	Date of Testing:					20	21/5/25 ~ 202	1/6/12	

Remark: This device supports LTE B4 and B66. Since the supported frequency span for LTE B4 falls completely within the supports frequency span for LTE B66, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4

2. Administration Data

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Report No.: FA142611

Testing Laboratory						
Test Firm	Sporton International (Kunshan) Inc.					
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158 FAX: +86-512-57900958					
Took Cita No	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	CN1257	314309				

Applicant Applicant			
Company Name	Motorola Mobility LLC		
Address	222 W, Merchandise Mart Plaza, Chicago, IL60654 USA		

Manufacturer Manufacturer				
Company Name	Motorola Mobility LLC			
Address	222 W, Merchandise Mart Plaza, Chicago, IL60654 USA			

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 5 of 60

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification					
Equipment Name	Mobile Phone				
Brand Name	Motorola				
Model Name	XT2155-1				
FCC ID	IHDT56ZW4				
IMEI Code	Sample 1: IMEI : 350164370010530 Sample 3: IMEI : 350164370013864				
	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 66: 1710 MHz ~ 1780 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE				
HW Version	DVT2				
SW Version	RON31.179-2				
GSM / (E)GPRS	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously				
Transfer mode	but can automatically switch between Packet and Circuit Switched Network.				
EUT Stage	Identical Prototype				

Report No.: FA142611

Remark:

- 1. 802.11n-HT40 is not supported in 2.4GHz WLAN.
- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3.
- This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
- The device implements receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which are provided in the operational description.
- For Some WWAN bands, Receiver off body-worn power level higher than hotspot reduced power level, so front/back Receiver off body-worn SAR can represent hotspot conservatively.
- There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active).
- There are three samples. Please refer to the operation description exhibit submitted. According to the difference, we chose sample 1 to perform full SAR testing and sample 3 verified the worst case of sample 1. For sample 2 and sample 1 are only the SIM card slot difference which does not affect the test, so sample 2 is not tested.
- There are two headsets, only supplier different, so only chose one headset to perform SAR testing.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4

4.2 General LTE SAR Test and Reporting Considerations

Summarize	d necessary ite	ms addres	sed in KD	B 94122	25 D05 v02	2r 0 5		
FCC ID	IHDT56ZW4							
Equipment Name	Mobile Phone	Mobile Phone						
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 66: 1710 MHz ~ 1780 MHz							
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used	QPSK / 16QAM	I / 64QAM						
LTE Voice / Data requirements	Voice and Data							
LTE Release Version	R11, Cat5							
CA Support	Not supported							
	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 a Modulation Channel bandwidth / Transmission bandwidth (NRB) 1.4 3.0 5 10 15 20 MHz MHz MHz MHz MHz MHz					and 3 MPR (dB)		
LTE MPR permanently built-in by design	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
	64 QAM 64 QAM	≤ 5 > 5	≤ 4 > 4	≤ 8 > 8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 2 ≤ 3
	256 QAM	- 5	- 4		≥1	/ 10	/ 10	≤ 5
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)							
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.							
Power reduction applied to satisfy SAR compliance	Yes, hotspot will trigger reduced power for some LTE bands, the detail please referred to section 13.							

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 7 of 60

			Transmis	sion (H, M	, L) chan	nel number	s and frequ	uencie	es in	each LTE	band		
	LTE Band 2												
	Bandwidth	1.4 MHz	Bandwid	th 3 MHz	Bandw	dth 5 MHz	Bandwidt	h 10 N	1Hz	Bandwidt	h 15 MHz	Bandwid	dth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (MH		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	185	55	18675	1857.5	18700	1860
М	18900	1880	18900	1880	18900	1880	18900	188	30	18900	1880	18900	1880
Н	19193	1909.3	19185	1908.5	19175	1907.5	19150	190)5	19125	1902.5	19100	1900
						LTE Baı	nd 4						
	Bandwidth	n 1.4 MHz	Bandwid	th 3 MHz	Bandw	dth 5 MHz	Bandwidt	h 10 N	1Hz	Bandwidt	h 15 MHz	Bandwid	dth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (MH		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	171	15	20025	1717.5	20050	1720
М	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732	2.5	20175	1732.5	20175	1732.5
Н	20393	1754.3	20385	1753.5	20375	1752.5	20350	175	50	20325	1747.5	20300	1745
						LTE Bai	nd 5						
	Band	dwidth 1.4	MHz	Bar	ndwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		MHz		
	Ch. #	Fre	q. (MHz)	Ch. #	F	eq. (MHz)	Ch. #		Fre	q. (MHz)	Ch. #	Fı	eq. (MHz)
L	20407	•	824.7	20415	5	825.5	20425	5		826.5	20450)	829
М	20525	,	836.5	20525	5	836.5	20525	5		836.5	20525	5	836.5
Н	20643	1	848.3	20635	5	847.5	20625			846.5 2060		0 844	
						LTE Baı							
		ndwidth 5 N			dwidth 10			dwidth				dwidth 20	
	Ch. #		q. (MHz)	Ch. #		eq. (MHz)	Ch. #			q. (MHz)	Ch. #		eq. (MHz)
L	20775		2502.5	20800		2505	20825			2507.5	20850		2510
М	21100		2535	21100		2535	21100	100 2535			21100		2535
Н	21425	5 2	2567.5	21400)	2565	21375	5	2	2562.5	21350)	2560
						LTE Ban							
	Bandwidth	1.4 MHz	Bandwid	th 3 MHz	Bandw	dth 5 MHz	Bandwidt			Bandwidt		Bandwid	th 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (MH		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	171		132047	1717.5	132072	
М	132322	1745	132322	1745	132322	1745	132322	174		132322	1745	132322	
Н	132665	1779.3	132657	1778.5	132647	1777.5	132622	177	75	132597	1772.5	132572	1770

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 8 of 60

5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Report No.: FA142611

5.2 Controlled Environment

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). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 9 of 60

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.

Report No.: FA142611

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)

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

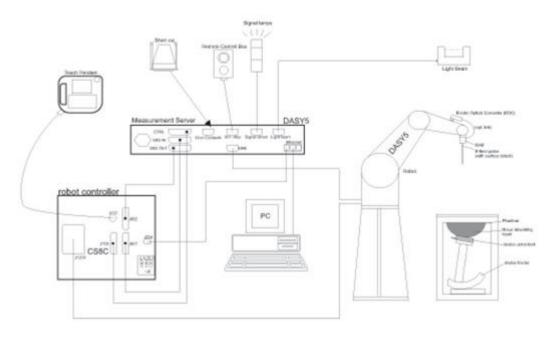
Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 10 of 60

7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



Report No. : FA142611

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning
- The phantom, the device holder and other accessories according to the targeted measurement.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 11 of 60

7.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 μW/g)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm



Report No. : FA142611

7.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Photo of DAE

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 12 of 60

7.3 Phantom

<SAM Twin Phantom>

107 1111 1 1111111111111111111111111111		
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	, in .
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 5
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

Report No.: FA142611

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 13 of 60

7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





Report No. : FA142611

Mounting Device for Hand-Held **Transmitters**

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 14 of 60

8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

Report No.: FA142611

- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

FCC ID : IHDT56ZW4 Page 15 of 60 Form version. : 200414

8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Report No.: FA142611

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz		
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°		
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$		
Maximum area scan spatial resolution: $\Delta x_{Area},\Delta y_{Area}$	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.			

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 16 of 60

8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Report No.: FA142611

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz	
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·Δz	Z _{Oom} (n-1)	
Minimum zoom scan volume	om scan x, y, z		≥ 30 mm	$3 - 4 \text{ GHz: } \ge 28 \text{ mm}$ $4 - 5 \text{ GHz: } \ge 25 \text{ mm}$ $5 - 6 \text{ GHz: } \ge 22 \text{ mm}$	

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.

8.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 17 of 60

When zoom scan is required and the reported 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. Test Equipment List

	N (5)	- "	0 : 111 1	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d258	2020/5/7	2023/5/6
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2019/3/27	2022/3/25
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	2019/3/26	2022/3/24
SPEAG	2450MHz System Validation Kit	D2450V2	908	2019/3/25	2022/3/23
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2021/11/25
SPEAG	Data Acquisition Electronics	DAE4	1649	2021/2/3	2022/2/2
SPEAG	Dosimetric E-Field Probe	EX3DV4	7627	2021/2/10	2022/2/9
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6201432831	2021/4/13	2022/4/12
Agilent	ENA Series Network Analyzer	E5071C	MY46106933	2020/8/1	2021/7/31
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2020/12/2	2021/12/1
Anritsu	Vector Signal Generator	MG3710A	6201682672	2021/1/7	2022/1/6
Rohde & Schwarz	Power Meter	NRVD	102081	2020/8/13	2021/8/12
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2020/8/13	2021/8/12
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2020/8/13	2021/8/12
R&S	CBT BLUETOOTH TESTER	CBT	101246	2021/4/12	2022/4/11
EXA	Spectrum Analyzer	FSV7	101632	2021/1/7	2022/1/6
Testo	Hygrometer	608-H1	1241332088	2021/1/7	2022/1/6
FLUKE	DIGITAC THERMOMETER	51	97240029	2020/8/14	2021/8/13
ARRA	Power Divider	A3200-2	N/A	No	te 1
MCL	Attenuation1	BW-S10W5+	N/A	No	te 1
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	No	te 1
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	No	te 1
Agilent	Dual Directional Coupler	778D	20500	No	te 1
Agilent	Dual Directional Coupler	11691D	MY48151020	No	te 1

Report No. : FA142611

Note:

- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check
- 2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

TEL: +86-512-57900158 / FAX: +86-512-57900958

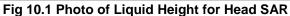
Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 18 of 60

10. System Verification

10.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.







Report No.: FA142611

Fig 10.2 Photo of Liquid Height for Body SAR

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 19 of 60



10.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Report No. : FA142611

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
				For Head				
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	Head	22.6	0.905	41.314	0.90	41.50	0.56	-0.45	±5	2021/5/25
1750	Head	22.9	1.344	39.248	1.37	40.10	-1.90	-2.12	±5	2021/5/28
1900	Head	22.7	1.424	38.981	1.40	40.00	1.71	-2.55	±5	2021/6/3
2450	Head	22.7	1.874	40.714	1.80	39.20	4.11	3.86	±5	2021/6/9
2600	Head	22.8	2.012	40.650	1.96	39.00	2.65	4.23	±5	2021/6/12

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 20 of 60

10.3 System Performance Check Results

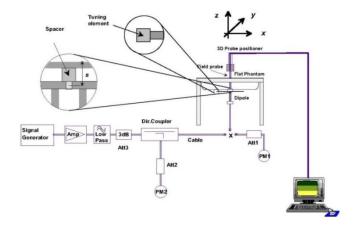
Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2021/5/25	835	Head	50	4d258	7627	1649	0.505	9.44	10.1	6.99
2021/5/28	1750	Head	50	1090	7627	1649	1.86	36.40	37.2	2.20
2021/6/3	1900	Head	50	5d170	7627	1649	2.05	39.00	41	5.13
2021/6/9	2450	Head	50	908	7627	1649	2.73	52.80	54.6	3.41
2021/6/12	2600	Head	50	1061	7627	1649	2.62	56.60	52.4	-7.42

<10a SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2021/5/25	835	Head	50	4d258	7627	1649	0.329	6.13	6.58	7.34
2021/5/28	1750	Head	50	1090	7627	1649	0.985	19.20	19.7	2.60
2021/6/3	1900	Head	50	5d170	7627	1649	1.06	20.30	21.2	4.43
2021/6/9	2450	Head	50	908	7627	1649	1.31	24.20	26.2	8.26
2021/6/12	2600	Head	50	1061	7627	1649	1.18	25.10	23.6	-5.98







Report No.: FA142611

Fig 11.3.2 Setup Photo

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Page 21 of 60 Form version. : 200414

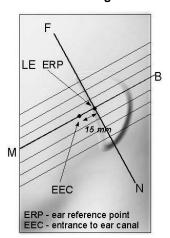
11. RF Exposure Positions

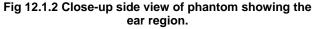
11.1 Ear and handset reference point

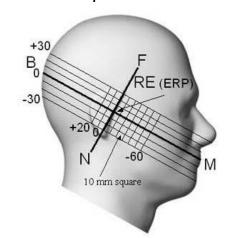
Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.



Fig 12.1.1 Front, back, and side views of SAM twin phantom







Report No.: FA142611

Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 22 of 60

11.2 Definition of the cheek position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane 5. normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

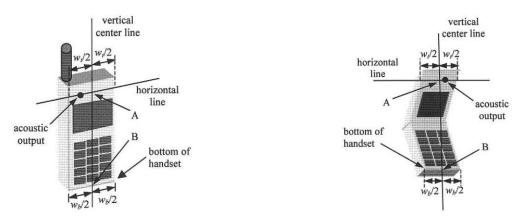


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 12.2.2 Handset vertical and horizontal reference lines-"clam-shell case"

Report No.: FA142611

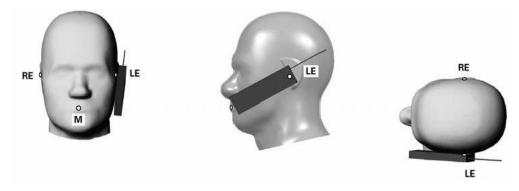


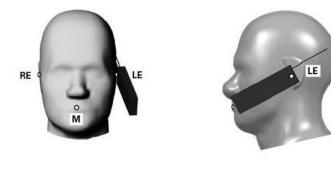
Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

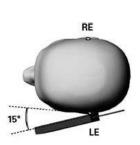
TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 23 of 60

11.3 Definition of the tilt position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point





Report No. : FA142611

Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 24 of 60

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 12.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Report No.: FA142611

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

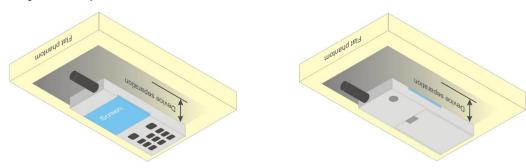


Fig 12.4 Body Worn Position

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 25 of 60

11.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

Report No.: FA142611

- 1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- 2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414

12. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

Report No. : FA142611

- 2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 2Tx slots for GSM850, and the GPRS 4Tx slots for GSM1900 are considered as the primary mode.
- Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction
 procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a
 secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary
 mode.

<WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
- 3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
- 4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

Sporton International (Kunshan) Inc.

HSDPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.

Report No. : FA142611

- The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, guoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	βε	βd	β _d (SF)	βc/βd	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
	(Note 4)	(Note 4)		(Note 4)			
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

- Note 1: \triangle_{ACK} , \triangle_{NACK} and $\triangle_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
- Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK = 30/15 with β_{hs} = 30/15 * β_c , and \triangle CQI = 24/15 with β_{hs} = 24/15 * β_c .
- Note 3: CM = 1 for β_0/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HSDPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
- Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15

Setup Configuration

TEL: +86-512-57900158 / FAX: +86-512-57900958 Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Page 28 of 60 Form version.: 200414



FCC SAR Test Report

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test ii. in the following table, C11.1.3, quoted from the TS 34.121

Report No. : FA142611

- Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
 vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βα	βd	β _d (SF)	βс/βа	βнs (Note1)	Вес	β _{ed} (Note 4) (Note 5)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

- Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 5/15 with $\beta_{hs} = 5/15 * \beta_c$.
- CM = 1 for β_c/β_d =12/15, $\beta_h = \beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH Note 2: and E-DPCCH the MPR is based on the relative CM difference.
- For subtest 1 the β_d/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by Note 3: setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to Note 4:
- Bed can not be set directly; it is set by Absolute Grant Value. Note 5:
- For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly Note 6: smaller MPR values.

Setup Configuration

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 29 of 60

FCC SAR Test Report

DC-HSDPA 3GPP release 8 Setup Configuration:

- The EUT was connected to Base Station referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting: C.
 - Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -25 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - Select HSDPA Uplink Parameters iv.
 - Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121

Report No. : FA142611

- a). Subtest 1: $\beta_c/\beta_d=2/15$ b). Subtest 2: $\beta_c/\beta_d=12/15$
- c). Subtest 3: $\beta_c/\beta_d=15/8$
- d). Subtest 4: $\beta_c/\beta_d=15/4$
- Set Delta ACK, Delta NACK and Delta CQI = 8 vi.
- Set Ack-Nack Repetition Factor to 3 vii.
- viii. Set CQI Feedback Cycle (k) to 4 ms
- Set CQI Repetition Factor to 2 ix.
- Power Ctrl Mode = All Up bits X.
- The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

	Parameter	Unit	Value
Nominal	Avg. Inf. Bit Rate	kbps	60
Inter-TTI	Distance	TTľs	1
Number (of HARQ Processes	Proces	6
		ses	0
Informati	on Bit Payload ($N_{\it INF}$)	Bits	120
Number	Code Blocks	Blocks	1
Binary Cl	hannel Bits Per TTI	Bits	960
Total Ava	ailable SML's in UE	SML's	19200
Number	of SML's per HARQ Proc.	SML's	3200
Coding R	late		0.15
Number	of Physical Channel Codes	Codes	1
Modulatio			QPSK
Note 1:	The RMC is intended to be used for	or DC-HSD	PA
	mode and both cells shall transmit	with identi	cal
Note 2:	Maximum number of transmission		
	retransmission is not allowed. The		cy and
	constellation version 0 shall be use	ed.	

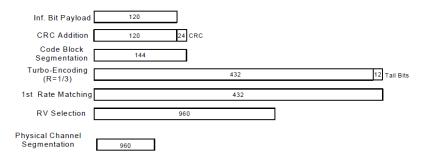


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

TEL: +86-512-57900158 / FAX: +86-512-57900958 Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 30 of 60



FORTON LAB. FCC SAR Test Report

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2E:HSPA+:UL with 16QAM
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test ii. in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E

Report No. : FA142611

- Set Channel Parms
- iv. Set Cell Power = -86 dBm
- Set Channel Type = HSPA ٧.
- vi. Set UE Target Power =21 dBm vii. Power Ctrl Mode= All Up Bits
- viii. Set Manual Uplink DPCH Bc/Bd = Manual
- ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
- Set HSPA Conn DL Channel Levels
- xi. Set HS-SCCH Configs
- xii. Set RB Test Mode Setup
- xiii. Set Common HSUPA Parameters
- xiv. Set Serving Grant
- xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-	βc	β_d	β _{HS}	β_{ec}	β_{ed}	β_{ed}	CM	MPR	AG	E-TFCI	E-TFCI
test	(Note3)		(Note1)		(2xSF2)	(2xSF4)	(dB)	(dB)	Index	(Note 5)	(boost)
					(Note 4)	(Note 4)	(Note 2)	(Note 2)	(Note 4)		
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105

- Note 1: \triangle_{ACK} , \triangle_{NACK} and $\triangle_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
- Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
- DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default. Note 3:
- β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 4:
- All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-Note 5: DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

Setup Configuration

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 / FAX: +86-512-57900958 Issued Date: Jun. 24, 2021

Form version. : 200414 FCC ID: IHDT56ZW4 Page 31 of 60

<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

Report No. : FA142611

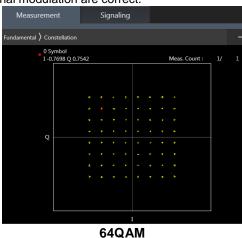
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+

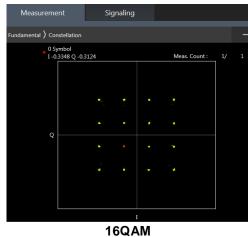
TEL: +86-512-57900158 / FAX: +86-512-57900958 Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Page 32 of 60 Form version.: 200414

<LTE Conducted Power>

General Note:

- 1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
- 2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
- 3. Per KDB 941225 D05v02r05, 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 for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r05, 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 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.
- 6. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 8. For LTE B4 / B5 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 9. LTE B4 SAR test was covered by B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger
- 10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.





Report No. : FA142611

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 33 of 60



<WLAN Conducted Power>

General Note:

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.

Report No.: FA142611

- 2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- 3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- 4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

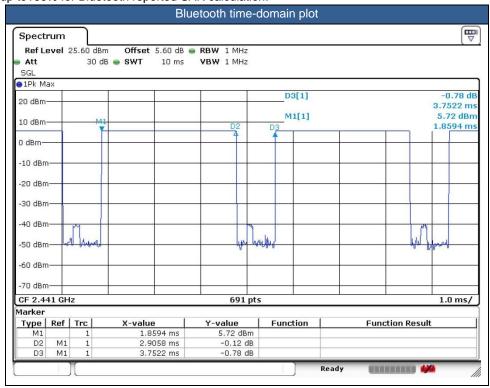
FCC ID : IHDT56ZW4 Page 34 of 60 Form version. : 200414

<2.4GHz Bluetooth>

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- The Bluetooth duty cycle is 77.44 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation.

Report No.: FA142611



TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 35 of 60

13. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 36 of 60

14. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Report No. : FA142611

- b. For SAR testing of WLAN/Bluetooth signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, 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
 - · ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - · ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. Pre KDB648474 D04v01r03, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset. When headset SAR is less than or equal than without headset SAR, no need to verify the remaining channels for headset SAR.
- 5. The device implements receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which are provided in the operational description.
- 6. For Some WWAN bands, Receiver off body-worn power level higher than hotspot reduced power level, so front/back receiver off body-worn SAR can represent hotspot conservatively.
- 7. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM1900, WCDMA Band II/IV, LTE Band 2/4/7/66 and WLAN 2.4GHz therefore product specific 10g SAR is necessary.
 - b. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
- 8. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active).
- 9. There are three samples. Please refer to the operation description exhibit submitted. According to the difference, we chose sample 1 to perform full SAR testing and sample 3 verified the worst case of sample 1. For sample 2 and sample 1 are only the SIM card slot difference which does not affect the test, so sample 2 is not tested.
- 10. There are two headsets, only supplier different, so only chose one headset to perform SAR testing.

TEL: +86-512-57900158 / FAX: +86-512-57900958 Issued Date: Jun. 24, 2021

FCC ID : IHDT56ZW4 Page 37 of 60 Form version. : 200414



GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 2Tx slots for GSM850, and the GPRS 4Tx slots for GSM1900 are considered as the primary mode.

Report No. : FA142611

2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 1/4 dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

- 1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than 1/4 dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

LTE Note:

- 1. Per KDB 941225 D05v02r05, 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 for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 3. Per KDB 941225 D05v02r05, 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 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.
- Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
- 5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 6. For LTE B4 / B5 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 7. LTE B4 SAR test was covered by LTE B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 38 of 60



WLAN/ Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Report No. : FA142611

- When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- 3. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 4. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
- 5. Based on WLAN2.4GHz and Bluetooth share the same antenna, so Bluetooth RF exposure evaluation chose the worst positon of WLAN 2.4GHz Ant to perform Bluetooth SAR test, and used this Bluetooth SAR value conservatively represent other position do co-located analysis with WWAN.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 39 of 60

14.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Sample	Power Reduction	Ch.		Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	GSM850	GPRS (2 Tx slots)	Right Cheek	1	Full	251	848.8	30.08	30.50	1.102	-0.01	0.211	0.232
	GSM850	GPRS (2 Tx slots)	Right Tilted	1	Full	251	848.8	30.08	30.50	1.102	0.14	0.109	0.120
	GSM850	GPRS (2 Tx slots)	Left Cheek	1	Full	251	848.8	30.08	30.50	1.102	0.04	0.202	0.223
	GSM850	GPRS (2 Tx slots)	Left Tilted	1	Full	251	848.8	30.08	30.50	1.102	-0.16	0.108	0.119
	GSM850	GPRS (2 Tx slots)	Right Cheek	3	Full	251	848.8	30.08	30.50	1.102	-0.03	0.208	0.229
02	GSM1900	GPRS (4 Tx slots)	Right Cheek	1	Full	512	1850.2	24.05	24.50	1.109	0.18	0.076	0.084
	GSM1900	GPRS (4 Tx slots)	Right Tilted	1	Full	512	1850.2	24.05	24.50	1.109	0.07	0.037	0.041
	GSM1900	GPRS (4 Tx slots)	Left Cheek	1	Full	512	1850.2	24.05	24.50	1.109	-0.16	0.071	0.079
	GSM1900	GPRS (4 Tx slots)	Left Tilted	1	Full	512	1850.2	24.05	24.50	1.109	0.19	0.063	0.070
	GSM1900	GPRS (4 Tx slots)	Right Cheek	3	Full	512	1850.2	24.05	24.50	1.109	0.06	0.071	0.079

Report No. : FA142611

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Sample	Power Reduction	Ch.	Freq.	Average Power	Tune-Up Limit	Scaling	Drift	Measured 1g SAR	Reported 1g SAR
	WCDMA II	RMC 12.2Kbps	Right Cheek	1	Full		1907.6	(dBm) 22.82	(dBm) 24.00	Factor 1,312	(dB) 0.08	(W/kg) 0.199	(W/kg) 0.261
	_	'											
	WCDMA II	RMC 12.2Kbps	Right Tilted	1	Full	9538	1907.6	22.82	24.00	1.312	0.05	0.132	0.173
03	WCDMA II	RMC 12.2Kbps	Left Cheek	1	Full	9538	1907.6	22.82	24.00	1.312	0.09	0.228	0.299
	WCDMA II	RMC 12.2Kbps	Left Tilted	1	Full	9538	1907.6	22.82	24.00	1.312	-0.01	0.155	0.203
	WCDMA II	RMC 12.2Kbps	Left Cheek	3	Full	9538	1907.6	22.82	24.00	1.312	0.08	0.174	0.228
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	1	Full	1312	1712.4	22.68	24.00	1.355	0.1	0.146	0.198
	WCDMA IV	RMC 12.2Kbps	Right Tilted	1	Full	1312	1712.4	22.68	24.00	1.355	0.04	0.106	0.144
	WCDMA IV	RMC 12.2Kbps	Left Cheek	1	Full	1312	1712.4	22.68	24.00	1.355	0.12	0.003	0.004
	WCDMA IV	RMC 12.2Kbps	Left Tilted	1	Full	1312	1712.4	22.68	24.00	1.355	0.11	0.061	0.083
	WCDMA IV	RMC 12.2Kbps	Right Cheek	3	Full	1312	1712.4	22.68	24.00	1.355	0.04	0.118	0.160
05	WCDMA V	RMC 12.2Kbps	Right Cheek	1	Full	4233	846.6	22.86	24.00	1.300	0.1	0.238	0.309
	WCDMA V	RMC 12.2Kbps	Right Tilted	1	Full	4233	846.6	22.86	24.00	1.300	-0.11	0.187	0.243
	WCDMA V	RMC 12.2Kbps	Left Cheek	1	Full	4233	846.6	22.86	24.00	1.300	-0.12	0.156	0.203
	WCDMA V	RMC 12.2Kbps	Left Tilted	1	Full	4233	846.6	22.86	24.00	1.300	0.01	0.122	0.159
	WCDMA V	RMC 12.2Kbps	Right Cheek	3	Full	4233	846.6	22.86	24.00	1.300	-0.03	0.223	0.290

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 40 of 60



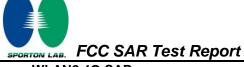
<FDD LTE SAR>

Plot	Band	BW	Modulation	RB	RB	Test	Sample	Power	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Bana	(MHz)	oaaiaiioii	Size	offset	Position	oapio	Reduction	J	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
06	LTE Band 2	20M	QPSK	1	49	Right Cheek	1	Full	19100	1900	23.68	24.00	1.076	0.01	0.214	0.230
	LTE Band 2	20M	QPSK	50	0	Right Cheek	1	Full	19100	1900	22.64	23.00	1.086	0.08	0.170	0.185
	LTE Band 2	20M	QPSK	1	49	Right Tilted	1	Full	19100	1900	23.68	24.00	1.076	0.07	0.109	0.117
	LTE Band 2	20M	QPSK	50	0	Right Tilted	1	Full	19100	1900	22.64	23.00	1.086	0.06	0.082	0.089
	LTE Band 2	20M	QPSK	1	49	Left Cheek	1	Full	19100	1900	23.68	24.00	1.076	-0.14	0.166	0.179
	LTE Band 2	20M	QPSK	50	0	Left Cheek	1	Full	19100	1900	22.64	23.00	1.086	0.06	0.128	0.139
	LTE Band 2	20M	QPSK	1	49	Left Tilted	1	Full	19100	1900	23.68	24.00	1.076	-0.09	0.173	0.186
	LTE Band 2	20M	QPSK	50	0	Left Tilted	1	Full	19100	1900	22.64	23.00	1.086	0.19	0.132	0.143
	LTE Band 2	20M	QPSK	1	49	Right Cheek	3	Full	19100	1900	23.68	24.00	1.076	0.06	0.202	0.217
07	LTE Band 5	10M	QPSK	1	0	Right Cheek	1	Full	20525	836.5	22.93	24.00	1.279	0.09	0.150	0.192
	LTE Band 5	10M	QPSK	25	12	Right Cheek	1	Full	20525	836.5	21.98	23.00	1.265	0.07	0.134	0.169
	LTE Band 5	10M	QPSK	1	0	Right Tilted	1	Full	20525	836.5	22.93	24.00	1.279	0.09	0.085	0.109
	LTE Band 5	10M	QPSK	25	12	Right Tilted	1	Full	20525	836.5	21.98	23.00	1.265	0.02	0.077	0.097
	LTE Band 5	10M	QPSK	1	0	Left Cheek	1	Full	20525	836.5	22.93	24.00	1.279	-0.1	0.137	0.175
	LTE Band 5	10M	QPSK	25	12	Left Cheek	1	Full	20525	836.5	21.98	23.00	1.265	-0.04	0.123	0.156
	LTE Band 5	10M	QPSK	1	0	Left Tilted	1	Full	20525	836.5	22.93	24.00	1.279	0.01	0.072	0.092
	LTE Band 5	10M	QPSK	25	12	Left Tilted	1	Full	20525	836.5	21.98	23.00	1.265	0.04	0.067	0.085
	LTE Band 5	10M	QPSK	1	0	Right Cheek	3	Full	20525	836.5	22.93	24.00	1.279	0.12	0.128	0.164
08	LTE Band 7	20M	QPSK	1	0	Right Cheek	1	Full	21100	2535	23.64	24.00	1.086	0.03	0.112	0.122
	LTE Band 7	20M	QPSK	50	24	Right Cheek	1	Full	21100	2535	22.45	23.00	1.135	0.08	0.093	0.106
	LTE Band 7	20M	QPSK	1	0	Right Tilted	1	Full	21100	2535	23.64	24.00	1.086	-0.05	0.057	0.062
	LTE Band 7	20M	QPSK	50	24	Right Tilted	1	Full	21100	2535	22.45	23.00	1.135	0.06	0.048	0.054
	LTE Band 7	20M	QPSK	1	0	Left Cheek	1	Full	21100	2535	23.64	24.00	1.086	0.08	0.101	0.110
	LTE Band 7	20M	QPSK	50	24	Left Cheek	1	Full	21100	2535	22.45	23.00	1.135	-0.15	0.091	0.103
	LTE Band 7	20M	QPSK	1	0	Left Tilted	1	Full	21100	2535	23.64	24.00	1.086	0.14	0.079	0.086
	LTE Band 7	20M	QPSK	50	24	Left Tilted	1	Full	21100	2535	22.45	23.00	1.135	0.02	0.070	0.079
	LTE Band 7	20M	QPSK	1	0	Right Cheek	3	Full	21100	2535	23.64	24.00	1.086	-0.06	0.102	0.111
09	LTE Band 66	20M	QPSK	1	49	Right Cheek	1	Full	132322	1745	23.66	24.00	1.081	0.17	0.203	0.220
	LTE Band 66	20M	QPSK	50	0	Right Cheek	1	Full	132322	1745	22.74	23.00	1.062	0.16	0.160	0.170
	LTE Band 66	20M	QPSK	1	49	Right Tilted	1	Full	132322	1745	23.66	24.00	1.081	0.09	0.107	0.116
	LTE Band 66	20M	QPSK	50	0	Right Tilted	1	Full	132322	1745	22.74	23.00	1.062	0.11	0.093	0.099
	LTE Band 66	20M	QPSK	1	49	Left Cheek	1	Full	132322	1745	23.66	24.00	1.081	0.09	0.139	0.150
	LTE Band 66	20M	QPSK	50	0	Left Cheek	1	Full	132322	1745	22.74	23.00	1.062	0.03	0.105	0.111
	LTE Band 66	20M	QPSK	1	49	Left Tilted	1	Full	132322	1745	23.66	24.00	1.081	0.08	0.129	0.140
	LTE Band 66	20M	QPSK	50	0	Left Tilted	1	Full	132322	1745	22.74	23.00	1.062	0.08	0.085	0.090
	LTE Band 66	20M	QPSK	1	49	Right Cheek	3	Full	132322	1745	23.66	24.00	1.081	-0.13	0.155	0.168

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 41 of 60



<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	1	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	-0.19	0.312	0.426
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	1	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	0.02	0.324	0.442
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	1	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	-0.02	0.812	1.107
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	1	Receiver on	4	2427	15.22	16.50	1.344	98.27	1.018	-0.03	0.722	0.988
10	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	-0.05	0.965	1.316
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	Receiver on	3	2422	15.05	16.50	1.396	98.27	1.018	0.01	0.704	1.001
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	Receiver on	4	2427	15.22	16.50	1.344	98.27	1.018	-0.03	0.510	0.698
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	Receiver on	5	2432	12.70	14.50	1.515	98.27	1.018	0.13	0.182	0.281
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	Receiver on	6	2437	13.75	15.50	1.498	98.27	1.018	0.08	0.245	0.374
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	Receiver on	11	2462	14.83	16.50	1.469	98.27	1.018	-0.03	0.785	1.174
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	3	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	0.04	0.758	1.034

Report No. : FA142611

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
11	Bluetooth	1Mbps	Left Tilted	1	Full	0	2402	7.09	9.00	1.552	77.44	1.291	-0.19	0.100	0.200
	Bluetooth	1Mbps	Left Tilted	3	Full	0	2402	7.09	9.00	1.552	77.44	1.291	0.11	0.072	0.145

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 42 of 60



14.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (2 Tx slots)	Front	5mm	1	Full	251	848.8	30.08	30.50	1.102	-0.17	0.495	0.545
12	GSM850	GPRS (2 Tx slots)	Back	5mm	1	Full	251	848.8	30.08	30.50	1.102	-0.07	0.596	0.657
	GSM850	GPRS (2 Tx slots)	Left Side	5mm	1	Full	251	848.8	30.08	30.50	1.102	0.05	0.186	0.205
	GSM850	GPRS (2 Tx slots)	Right Side	5mm	1	Full	251	848.8	30.08	30.50	1.102	0.12	0.303	0.334
	GSM850	GPRS (2 Tx slots)	Bottom Side	5mm	1	Full	251	848.8	30.08	30.50	1.102	-0.06	0.438	0.482
	GSM850	GPRS (2 Tx slots)	Back	5mm	3	Full	251	848.8	30.08	30.50	1.102	0.03	0.588	0.648
	GSM1900	GPRS (4 Tx slots)	Front	5mm	1	Hotspot on	512	1850.2	21.73	22.50	1.194	-0.02	0.243	0.290
	GSM1900	GPRS (4 Tx slots)	Back	5mm	1	Hotspot on	512	1850.2	21.73	22.50	1.194	-0.01	0.658	0.786
	GSM1900	GPRS (4 Tx slots)	Left Side	5mm	1	Hotspot on	512	1850.2	21.73	22.50	1.194	0.05	0.185	0.221
	GSM1900	GPRS (4 Tx slots)	Right Side	5mm	1	Hotspot on	512	1850.2	21.73	22.50	1.194	0.02	0.045	0.054
13	GSM1900	GPRS (4 Tx slots)	Bottom Side	5mm	1	Hotspot on	512	1850.2	21.73	22.50	1.194	-0.02	0.992	1.184
	GSM1900	GPRS (4 Tx slots)	Bottom Side	5mm	1	Hotspot on	661	1880	21.68	22.50	1.208	0.02	0.852	1.029
	GSM1900	GPRS (4 Tx slots)	Bottom Side	5mm	1	Hotspot on	810	1909.8	21.63	22.50	1.222	0.12	0.889	1.086
	GSM1900	GPRS (4 Tx slots)	Bottom Side	5mm	3	Hotspot on	512	1850.2	21.73	22.50	1.194	-0.02	0.848	1.013

Report No. : FA142611

<WCDMA SAR>

Plot	Donal	Mada	Test	Gap	01-	Power	Oh	Freq.					Measured	Reported
No.	Band	Mode	Position	(mm)	Sample	Reduction	Ch.	(MHz)	Power (dBm)	Limit (dBm)	Scaling Factor	Drift (dB)	1g SAR (W/kg)	1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	Hotspot on	9538	1907.6	17.52	19.00	1.406	-0.02	0.350	0.492
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Hotspot on	9538	1907.6	17.52	19.00	1.406	-0.04	0.675	0.949
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Hotspot on	9262	1852.4	17.18	19.00	1.521	0.05	0.777	1.181
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Hotspot on	9400	1880	17.28	19.00	1.486	0.03	0.801	1.190
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	1	Hotspot on	9538	1907.6	17.52	19.00	1.406	0.01	0.261	0.367
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	1	Hotspot on	9538	1907.6	17.52	19.00	1.406	0.04	0.034	0.048
14	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	Hotspot on	9538	1907.6	17.52	19.00	1.406	-0.03	0.955	1.343
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	Hotspot on	9262	1852.4	17.18	19.00	1.521	0.06	0.852	1.296
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	Hotspot on	9400	1880	17.28	19.00	1.486	0.01	0.843	1.253
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	3	Hotspot On	9538	1907.6	17.52	19.00	1.406	0.09	0.899	1.264
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	Hotspot on	1312	1712.4	16.50	18.00	1.413	-0.05	0.342	0.483
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Hotspot on	1312	1712.4	16.50	18.00	1.413	0.02	0.644	0.910
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Hotspot on	1413	1732.6	16.42	18.00	1.439	0.04	0.606	0.872
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	Hotspot on	1513	1752.6	16.37	18.00	1.455	0.02	0.584	0.850
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	1	Hotspot on	1312	1712.4	16.50	18.00	1.413	0.06	0.156	0.220
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	1	Hotspot on	1312	1712.4	16.50	18.00	1.413	0.01	0.052	0.073
15	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	Hotspot on	1312	1712.4	16.50	18.00	1.413	-0.04	0.874	1.235
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	Hotspot on	1413	1732.6	16.42	18.00	1.439	0.03	0.812	1.168
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	Hotspot on	1513	1752.6	16.37	18.00	1.455	0.04	0.785	1.143
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	3	Hotspot on	1312	1712.4	16.50	18.00	1.413	0.06	0.648	0.915
	WCDMA V	RMC 12.2Kbps	Front	5mm	1	Full	4233	846.6	22.86	24.00	1.300	0.03	0.588	0.764
16	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Full	4233	846.6	22.86	24.00	1.300	0.06	0.762	0.991
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Full	4132	826.4	22.45	24.00	1.429	0.06	0.693	0.990
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	Full	4182	836.4	22.80	24.00	1.318	0.06	0.745	0.982
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	1	Full	4233	846.6	22.86	24.00	1.300	0.11	0.214	0.278
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	1	Full	4233	846.6	22.86	24.00	1.300	0.15	0.354	0.460
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	1	Full	4233	846.6	22.86	24.00	1.300	-0.06	0.612	0.796
	WCDMA V	RMC 12.2Kbps	Back	5mm	3	Full	4233	846.6	22.86	24.00	1.300	0.03	0.699	0.909

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 43 of 60



Report No. : FA142611

No. Band Band BW Modulation Risk offset Position Computer C		<fuu< th=""><th>LIE</th><th>SAR></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></fuu<>	LIE	SAR>														
LTE Band 2 20M		Band		Modulation				Gap (mm)	Sample		Ch.	Freq. (MHz)	Power	Limit	Scaling	Drift	1g SAR	Reported 1g SAR (W/kg)
LTE Band 2 20M		LTE Band 2	20M	QPSK	1	49	Front	5mm	1	Hotspot on	19100	1900	19.16	19.50	1.081	-0.03	0.312	0.337
LTE Band 2		LTE Band 2	20M	QPSK	50	0	Front	5mm	1	Hotspot on	19100	1900	18.18	18.50	1.076	0.05	0.277	0.298
LTE Band 2 20M QPSK 1 49 Left Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.03 0.149 (LTE Band 2 20M QPSK 50 0 Left Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.05 0.113 (LTE Band 2 20M QPSK 1 49 Right Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.12 0.035 (LTE Band 2 20M QPSK 50 0 Right Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.12 0.035 (LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.04 0.027 (LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.06 0.991 TIT LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.06 0.991 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.06 0.974 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.06 0.974 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.06 0.974 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.151 0.15 0.820 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 0.765 (LTE Band 5 10M QPSK 1 0 Battom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 0.765 (LTE Band 5 10M QPSK 1 0 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.186 (LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.186 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.		LTE Band 2	20M	QPSK	1	49	Back	5mm	1	Hotspot on	19100	1900	19.16	19.50	1.081	0.05	0.647	0.700
LTE Band 2 20M QPSK 50 0 Left Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 0.05 0.113 (LTE Band 2 20M QPSK 1 49 Right Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.12 0.035 (LTE Band 2 20M QPSK 50 0 Right Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.12 0.035 (LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.06 0.991 1 TO LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.05 1.040 1 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1880 18.79 19.50 1.178 0.06 0.991 1 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.06 0.974 1 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.151 0.15 0.820 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 10 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 10 0 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.119 0.04 0.752 (LTE Band 2 20M QPSK 1 1 49 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 0.763 (LTE Band 2 20M QPSK 1 1 0 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 1.040 (LTE Band 5 10M QPSK 1 0 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.285 (LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.186 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00		LTE Band 2	20M	QPSK	50	0	Back	5mm	1	Hotspot on	19100	1900	18.18	18.50	1.076	0.12	0.512	0.551
LTE Band 2 20M QPSK 1 49 Right Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.12 0.035 (LTE Band 2 20M QPSK 50 0 Right Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 0.04 0.027 (LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 0.06 0.991 1 TE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.186 0.05 1.040 1 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.178 0.06 0.991 1 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 0.06 0.974 1 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.056 0.02 0.763 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 17.87 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 1 0 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.156 0.02 0.763 (LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.285 (LTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.285 (LTE Band 5 10M QPSK 1 0 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 1 0 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 1 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.265 0.06 0.09		LTE Band 2	20M	QPSK	1	49	Left Side	5mm	1	Hotspot on	19100	1900	19.16	19.50	1.081	0.03	0.149	0.161
LTE Band 2 20M QPSK 50 0 Right Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 0.04 0.027 (LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.081 -0.06 0.991 1 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 -0.05 1.040 1 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1880 18.79 19.50 1.178 -0.06 0.974 1 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 -0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.151 0.15 0.820 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1880 17.87 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 17.87 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 (LTE Band 2 20M QPSK 1 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 (LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.285 (LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.		LTE Band 2	20M	QPSK	50	0	Left Side	5mm	1	Hotspot on	19100	1900	18.18	18.50	1.076	0.05	0.113	0.122
LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 19.16 19.50 1.081 -0.06 0.991 1900 1900 1900 19.16 19.50 1.081 -0.06 0.991 1900 1900 1900 1900 1900 1900 190		LTE Band 2	20M	QPSK	1	49	Right Side	5mm	1	Hotspot on	19100	1900	19.16	19.50	1.081	0.12	0.035	0.038
Text Text		LTE Band 2	20M	QPSK	50	0	Right Side	5mm	1	Hotspot on	19100	1900	18.18	18.50	1.076	0.04	0.027	0.029
LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18900 1880 18.79 19.50 1.178 -0.06 0.974 1 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 -0.03 0.785 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.151 0.15 0.820 (LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 17.87 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.156 0.02 0.763 (LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 (LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 3 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 1.040 1 LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.285 (LTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.16 0.586 (LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.16 0.586 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.468 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.09 0.505 (LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.265 0.03 0.412 (LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.265 0.03 0.412 (LTE Band 5 10M QPSK 25 12 Bo		LTE Band 2	20M	QPSK	1	49	Bottom Side	5mm	1	Hotspot on	19100	1900	19.16	19.50	1.081	-0.06	0.991	1.072
LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.18 18.50 1.076 -0.03 0.785 0 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.151 0.15 0.820 0 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 17.87 18.50 1.156 0.02 0.763 0 LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 0 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 0 LTE Band 2 20M QPSK 1 0 Front 5mm 1 <td< td=""><td>17</td><td>LTE Band 2</td><td>20M</td><td>QPSK</td><td>1</td><td>49</td><td>Bottom Side</td><td>5mm</td><td>1</td><td>Hotspot on</td><td>18700</td><td>1860</td><td>18.76</td><td>19.50</td><td>1.186</td><td>-0.05</td><td>1.040</td><td>1.233</td></td<>	17	LTE Band 2	20M	QPSK	1	49	Bottom Side	5mm	1	Hotspot on	18700	1860	18.76	19.50	1.186	-0.05	1.040	1.233
LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18700 1860 17.89 18.50 1.151 0.15 0.820 0 LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 18900 1880 17.87 18.50 1.156 0.02 0.763 0 LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 0 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 18.01 18.50 1.119 0.04 0.752 0 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 1 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 0.763 0 LTE Band 5		LTE Band 2	20M	QPSK	1	49	Bottom Side	5mm	1	Hotspot on	18900	1880	18.79	19.50	1.178	-0.06	0.974	1.147
LTE Band 2 20M QPSK 50 0 Bottom Side 5mm 1 Hotspot on 1890 1880 17.87 18.50 1.156 0.02 0.763 0 LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 0 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 3 Hotspot on 18700 1860 18.76 19.50 1.118 0.02 1.040 1 LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.285 0 LTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.225 0 18 LTE		LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	Hotspot on	19100	1900	18.18	18.50	1.076	-0.03	0.785	0.845
LTE Band 2 20M QPSK 100 0 Bottom Side 5mm 1 Hotspot on 19100 1900 18.01 18.50 1.119 0.04 0.752 0.02 LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 3 Hotspot on 18700 1860 18.76 19.50 1.118 0.02 1.040 1 LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.285 0 LTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.225 0 18 LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.16 0.586 LTE Band 5 1		LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	Hotspot on	18700	1860	17.89	18.50	1.151	0.15	0.820	0.944
LTE Band 2 20M QPSK 1 49 Bottom Side 5mm 3 Hotspot on 18700 1860 18.76 19.50 1.186 0.02 1.040 1 LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.285 0 LTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.225 0 18 LTE Band 5 10M QPSK 1 0 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.16 0.586 0 LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.02 0.468 0 LTE Band 5 10M QPSK		LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	Hotspot on	18900	1880	17.87	18.50	1.156	0.02	0.763	0.882
LTE Band 5 10M QPSK 1 0 Front 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.02 0.285 (CLTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.225 (CLTE Band 5 10M QPSK 1 0 Back 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.225 (CLTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.02 0.468 (CLTE Band 5 10M QPSK 1 0 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.02 0.468 (CLTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.02 0.118 (CLTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.098 (CLTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.098 (CLTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 (CLTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 (CLTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 (CLTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.00 0.505 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (CLTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98		LTE Band 2	20M	QPSK	100	0	Bottom Side	5mm	1	Hotspot on	19100	1900	18.01	18.50	1.119	0.04	0.752	0.842
LTE Band 5 10M QPSK 25 12 Front 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.225 (18 LTE Band 5 10M QPSK 1 0 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.16 0.586 (18 LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.02 0.468 (18 LTE Band 5 10M QPSK 1 0 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (18 LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 (18 LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.098 (18 LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 (18 LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 (18 LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 (18 LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.09 0.505 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.03 0.412 (18 LTE Band 5 10M		LTE Band 2	20M	QPSK	1	49	Bottom Side	5mm	3	Hotspot on	18700	1860	18.76	19.50	1.186	0.02	1.040	1.233
18 LTE Band 5 10M QPSK 1 0 Back 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.16 0.586 0.02 0.468 0.02 0.118 0.02 0.118 0.02 0.118 0.02 0.118 0.02 0.02 0.118 0.02 0.018 0.02 0.118 0.02 <td></td> <td>LTE Band 5</td> <td>10M</td> <td>QPSK</td> <td>1</td> <td>0</td> <td>Front</td> <td>5mm</td> <td>1</td> <td>Full</td> <td>20525</td> <td>836.5</td> <td>22.93</td> <td>24.00</td> <td>1.279</td> <td>-0.02</td> <td>0.285</td> <td>0.365</td>		LTE Band 5	10M	QPSK	1	0	Front	5mm	1	Full	20525	836.5	22.93	24.00	1.279	-0.02	0.285	0.365
LTE Band 5 10M QPSK 25 12 Back 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.02 0.468 0 LTE Band 5 10M QPSK 1 0 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 0 LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.098 0 LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 0 LTE Band 5 10M QPSK		LTE Band 5	10M	QPSK	25	12	Front	5mm	1	Full	20525	836.5	21.98	23.00	1.265	0.06	0.225	0.285
LTE Band 5 10M QPSK 1 0 Left Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.118 0 LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.098 0 LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 0 LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 0 LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.09 0.505 LTE Band 5 10M QPSK<	18	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	Full	20525	836.5	22.93	24.00	1.279	-0.16	0.586	0.750
LTE Band 5 10M QPSK 25 12 Left Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.06 0.098 0 LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 0 LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 0 LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.09 0.505 0 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 -0.03 0.412 0		LTE Band 5	10M	QPSK	25	12	Back	5mm	1	Full	20525	836.5	21.98	23.00	1.265	0.02	0.468	0.592
LTE Band 5 10M QPSK 1 0 Right Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 0.02 0.187 0 LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 0 LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.09 0.505 0 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 -0.03 0.412 0		LTE Band 5	10M	QPSK	1	0	Left Side	5mm	1	Full	20525	836.5	22.93	24.00	1.279	0.02	0.118	0.151
LTE Band 5 10M QPSK 25 12 Right Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 0.12 0.145 0 LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.09 0.505 0 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 -0.03 0.412 0		LTE Band 5	10M	QPSK	25	12	Left Side	5mm	1	Full	20525	836.5	21.98	23.00	1.265	0.06	0.098	0.124
LTE Band 5 10M QPSK 1 0 Bottom Side 5mm 1 Full 20525 836.5 22.93 24.00 1.279 -0.09 0.505 0 LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 -0.03 0.412 0		LTE Band 5	10M	QPSK	1	0	Right Side	5mm	1	Full	20525	836.5	22.93	24.00	1.279	0.02	0.187	0.239
LTE Band 5 10M QPSK 25 12 Bottom Side 5mm 1 Full 20525 836.5 21.98 23.00 1.265 -0.03 0.412 (LTE Band 5	10M	QPSK	25	12	Right Side	5mm	1	Full	20525	836.5	21.98	23.00	1.265	0.12	0.145	0.183
		LTE Band 5	10M	QPSK	1	0	Bottom Side	5mm	1	Full	20525	836.5	22.93	24.00	1.279	-0.09	0.505	0.646
ITE Band 5 10M OPSK 1 0 Back 5mm 3 Full 20525 836 5 22 93 24 00 1 279 0.04 0.541 (LTE Band 5	10M	QPSK	25	12	Bottom Side	5mm	1	Full	20525	836.5	21.98	23.00	1.265	-0.03	0.412	0.521
		LTE Band 5	10M	QPSK	1	0	Back	5mm	3	Full	20525	836.5	22.93	24.00	1.279	0.04	0.541	0.692

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 44 of 60



SPORTON LAB. FCC SAR Test Report

Plot	Band	BW	Modulation	RB	RB	Test	Gap	Sample	Power	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Dana	(MHz)	Modulation	Size	offset	Position	(mm)	Jampie	Reduction	OII.	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm	1	Hotspot on	21100	2535	19.47	20.00	1.130	-0.02	0.368	0.416
	LTE Band 7	20M	QPSK	50	24	Front	5mm	1	Hotspot on	21100	2535	18.27	19.00	1.183	0.04	0.312	0.369
19	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Hotspot on	21100	2535	19.47	20.00	1.130	0.03	1.180	1.333
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Hotspot on	20850	2510	19.22	20.00	1.197	0.02	1.020	1.221
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Hotspot on	21350	2560	19.23	20.00	1.194	0.02	1.070	1.278
	LTE Band 7	20M	QPSK	50	24	Back	5mm	1	Hotspot on	21100	2535	18.27	19.00	1.183	0.06	0.788	0.932
	LTE Band 7	20M	QPSK	50	24	Back	5mm	1	Hotspot on	20850	2510	18.20	19.00	1.202	0.02	0.752	0.904
	LTE Band 7	20M	QPSK	50	24	Back	5mm	1	Hotspot on	21350	2560	18.21	19.00	1.199	0.03	0.761	0.913
	LTE Band 7	20M	QPSK	100	0	Back	5mm	1	Hotspot on	21100	2535	18.25	19.00	1.189	0.12	0.781	0.928
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	1	Hotspot on	21100	2535	19.47	20.00	1.130	0.06	0.125	0.141
	LTE Band 7	20M	QPSK	50	24	Left Side	5mm	1	Hotspot on	21100	2535	18.27	19.00	1.183	-0.03	0.101	0.119
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	1	Hotspot on	21100	2535	19.47	20.00	1.130	0.04	0.098	0.111
	LTE Band 7	20M	QPSK	50	24	Right Side	5mm	1	Hotspot on	21100	2535	18.27	19.00	1.183	0.06	0.084	0.099
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	Hotspot on	21100	2535	19.47	20.00	1.130	0.14	1.160	1.311
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	Hotspot on	20850	2510	19.22	20.00	1.197	0.02	1.020	1.221
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	Hotspot on	21350	2560	19.23	20.00	1.194	0.02	0.982	1.172
	LTE Band 7	20M	QPSK	50	24	Bottom Side	5mm	1	Hotspot on	21100	2535	18.27	19.00	1.183	0.06	0.850	1.006
	LTE Band 7	20M	QPSK	50	24	Bottom Side	5mm	1	Hotspot on	20850	2510	18.20	19.00	1.202	0.02	0.801	0.963
	LTE Band 7	20M	QPSK	50	24	Bottom Side	5mm	1	Hotspot on	21350	2560	18.21	19.00	1.199	0.01	0.815	0.978
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	1	Hotspot on	21100	2535	18.25	19.00	1.189	0.02	0.842	1.001
	LTE Band 7	20M	QPSK	1	0	Back	5mm	3	Hotspot on	21100	2535	19.47	20.00	1.130	-0.03	0.818	0.924
	LTE Band 66	20M	QPSK	1	49	Front	5mm	1	Hotspot on	132322	1745	16.95	17.50	1.135	-0.03	0.340	0.386
	LTE Band 66	20M	QPSK	50	0	Front	5mm	1	Hotspot on	132322	1745	15.88	16.50	1.153	0.06	0.280	0.323
	LTE Band 66	20M	QPSK	1	49	Back	5mm	1	Hotspot on	132322	1745	16.95	17.50	1.135	-0.19	0.810	0.919
	LTE Band 66	20M	QPSK	1	49	Back	5mm	1	Hotspot on	132072		16.66	17.50	1.213	0.02	0.760	0.922
	LTE Band 66	20M	QPSK	1	49	Back	5mm	1	Hotspot on	132572		16.91	17.50	1.146	0.02	0.630	0.722
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	Hotspot on	132322	1745	15.88	16.50	1.153	0.00	0.720	0.830
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	Hotspot on	132072		15.86	16.50	1.159	0.12	0.641	0.743
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	Hotspot on	132572		15.81	16.50	1.172	0.12	0.620	0.743
	LTE Band 66	20M	QPSK	100	0	Back	5mm	1	Hotspot on	132322		15.85	16.50	1.161	0.04	0.581	0.675
	LTE Band 66	20M	QPSK	1	49	Left Side	5mm	1	Hotspot on	132322	1745	16.95	17.50	1.135	0.03	0.093	0.106
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	1	Hotspot on	132322	1745	15.88	16.50	1.153	0.05	0.093	0.088
	LTE Band 66	20M	QPSK	1	49	Right Side	5mm	1	Hotspot on	132322	1745	16.95	17.50	1.135	0.06	0.460	0.522
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	1	Hotspot on	132322	1745	15.88	16.50	1.153	0.00	0.400	0.035
20	LTE Band 66		QPSK	1		Bottom Side				132322					0.02		1.129
20			QPSK	1						132322		16.95	17.50	1.135		0.995	
	LTE Band 66 LTE Band 66		QPSK QPSK	_	49	Bottom Side Bottom Side			Hotspot on			16.66	17.50	1.213	0.03	0.930	1.128 1.045
				1	49				Hotspot on	132572		16.91	17.50	1.146	0.06	0.912	
	LTE Band 66		QPSK	50	0	Bottom Side			Hotspot on	132322		15.88	16.50	1.153	0.02	0.780	0.900
	LTE Band 66		QPSK	50	0	Bottom Side		1	Hotspot on	132072		15.86	16.50	1.159	0.12	0.761	0.882
	LTE Band 66		QPSK	50	0	Bottom Side		1	Hotspot on	132572		15.81	16.50	1.172	0.05	0.780	0.914
	LTE Band 66		QPSK	100	0	Bottom Side			Hotspot on	132322		15.85	16.50	1.161	0.06	0.742	0.862
	LTE Band 66	20M	QPSK	1	49	Bottom Side	5mm	3	Hotspot on	132322	1745	16.95	17.50	1.135	0.03	0.585	0.664

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 45 of 60

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cycla		Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.02	0.425	0.611
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.04	0.561	0.807
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	Full	3	2422	16.07	17.50	1.391	98.27	1.018	0.04	0.461	0.653
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.02	0.058	0.083
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	-0.03	0.223	0.321
21	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	-0.06	0.916	1.317
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	3	2422	16.07	17.50	1.391	98.27	1.018	-0.07	0.722	1.023
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	4	2427	15.22	16.50	1.344	98.27	1.018	0.01	0.240	0.328
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	5	2432	12.70	14.50	1.515	98.27	1.018	0.05	0.105	0.162
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	6	2437	13.75	15.50	1.498	98.27	1.018	-0.02	0.163	0.249
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	Full	11	2462	15.66	17.50	1.529	98.27	1.018	0.07	0.463	0.721
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	3	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.03	0.861	1.238

Report No. : FA142611

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
22	Bluetooth	1Mbps	Back	5mm	1	Full	0	2402	7.09	9.00	1.552	77.44	1.291	0.13	0.083	0.166
	Bluetooth	1Mbps	Top Side	5mm	1	Full	0	2402	7.09	9.00	1.552	77.44	1.291	-0.06	0.075	0.150
	Bluetooth	1Mbps	Back	5mm	3	Full	0	2402	7.09	9.00	1.552	77.44	1.291	0.02	0.072	0.143

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 46 of 60

14.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (2 Tx slots)	Front	5mm	1	-	Full	251	848.8	30.08	30.50	1.102	-0.17	0.495	0.545
23	GSM850	GPRS (2 Tx slots)	Back	5mm	1	-	Full	251	848.8	30.08	30.50	1.102	-0.07	0.596	0.657
	GSM850	GPRS (2 Tx slots)	Back	5mm	3	-	Full	251	848.8	30.08	30.50	1.102	0.03	0.588	0.648
	GSM1900	GPRS (4 Tx slots)	Front	5mm	1	-	Full	512	1850.2	24.05	24.50	1.109	-0.03	0.451	0.500
24	GSM1900	GPRS (4 Tx slots)	Back	5mm	1	-	Full	512	1850.2	24.05	24.50	1.109	-0.01	1.220	1.353
	GSM1900	GPRS (4 Tx slots)	Back	5mm	1	Headset	Full	512	1850.2	24.05	24.50	1.109	-0.12	1.150	1.276
	GSM1900	GPRS (4 Tx slots)	Back	5mm	1	-	Full	661	1880	23.95	24.50	1.135	0.04	1.080	1.226
	GSM1900	GPRS (4 Tx slots)	Back	5mm	1	-	Full	810	1909.8	23.98	24.50	1.127	0.12	1.120	1.262
	GSM1900	GPRS (4 Tx slots)	Back	5mm	3	-	Full	512	1850.2	24.05	24.50	1.109	0.05	1.070	1.187

Report No. : FA142611

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	-	Receiver off	9538	1907.6	19.31	20.50	1.315	-0.03	0.512	0.673
25	WCDMA II	RMC 12.2Kbps	Back	5mm	1	-	Receiver off	9538	1907.6	19.31	20.50	1.315	-0.04	1.080	1.420
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Headset	Receiver off	9538	1907.6	19.31	20.50	1.315	0.03	0.977	1.285
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	-	Receiver off	9262	1852.4	19.01	20.50	1.409	0.06	0.951	1.340
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	-	Receiver off	9400	1880	19.09	20.50	1.384	0.04	0.963	1.332
	WCDMA II	RMC 12.2Kbps	Back	5mm	3	-	Receiver off	9538	1907.6	19.31	20.50	1.315	-0.03	0.716	0.942
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	-	Receiver off	1312	1712.4	17.76	19.00	1.330	-0.03	0.588	0.782
26	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	Receiver off	1312	1712.4	17.76	19.00	1.330	-0.04	0.854	1.136
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	Receiver off	1413	1732.6	17.70	19.00	1.349	0.05	0.842	1.136
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	Receiver off	1513	1752.6	17.55	19.00	1.396	-0.12	0.812	1.134
	WCDMA IV	RMC 12.2Kbps	Back	5mm	3	-	Receiver off	1312	1712.4	17.76	19.00	1.330	0.05	0.674	0.897
	WCDMA V	RMC 12.2Kbps	Front	5mm	1	-	Full	4233	846.6	22.86	24.00	1.300	0.03	0.588	0.764
27	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	Full	4233	846.6	22.86	24.00	1.300	0.06	0.762	0.991
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	Full	4132	826.4	22.45	24.00	1.429	0.06	0.693	0.990
	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	Full	4182	836.4	22.80	24.00	1.318	0.06	0.745	0.982
	WCDMA V	RMC 12.2Kbps	Back	5mm	3	-	Full	4233	846.6	22.86	24.00	1.300	0.03	0.699	0.909

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 47 of 60



SPORTON LAB. FCC SAR Test Report

<FDD LTE SAR>

		טט	LIE SAN	_														
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	49	Front	5mm	1	-	Receiver off	19100	1900	20.45	21.00	1.135	-0.03	0.421	0.478
	LTE Band 2	20M	QPSK	50	0	Front	5mm	1	-	Receiver off	19100	1900	19.41	20.00	1.146	0.06	0.385	0.441
	LTE Band 2	20M	QPSK	1	49	Back	5mm	1	-	Receiver off	19100	1900	20.45	21.00	1.135	0.12	1.080	1.226
	LTE Band 2	20M	QPSK	1	49	Back	5mm	1	-	Receiver off	18700	1860	20.25	21.00	1.189	0.05	1.120	1.331
28	LTE Band 2	20M	QPSK	1	49	Back	5mm	1	-	Receiver off	18900	1880	20.39	21.00	1.151	-0.07	1.200	1.381
	LTE Band 2	20M	QPSK	1	49	Back	5mm	1	Headset	Receiver off	18900	1880	20.39	21.00	1.151	-0.03	1.120	1.289
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	Receiver off	19100	1900	19.41	20.00	1.146	0.05	0.885	1.014
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	Receiver off	18700	1860	19.24	20.00	1.191	0.03	0.912	1.086
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	Receiver off	18900	1880	19.13	20.00	1.222	0.04	0.961	1.174
	LTE Band 2	20M	QPSK	100	0	Back	5mm	1	-	Receiver off	19100	1900	19.35	20.00	1.161	0.1	0.848	0.985
	LTE Band 2	20M	QPSK	1	49	Back	5mm	3	-	Receiver off	18900	1880	20.39	21.00	1.151	0.06	1.120	1.289
	LTE Band 5	10M	QPSK	1	0	Front	5mm	1	-	Full	20525	836.5	22.93	24.00	1.279	-0.02	0.285	0.365
	LTE Band 5	10M	QPSK	25	12	Front	5mm	1	-	Full	20525	836.5	21.98	23.00	1.265	0.06	0.225	0.285
29	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	-	Full	20525	836.5	22.93	24.00	1.279	-0.16	0.586	0.750
	LTE Band 5	10M	QPSK	25	12	Back	5mm	1	-	Full	20525	836.5	21.98	23.00	1.265	0.02	0.468	0.592
	LTE Band 5	10M	QPSK	1	0	Back	5mm	3	-	Full	20525	836.5	22.93	24.00	1.279	0.04	0.541	0.692
	LTE Band 7	20M	QPSK	1	0	Front	5mm	1	-	Receiver off	21100	2535	19.47	20.00	1.130	-0.02	0.368	0.416
	LTE Band 7	20M	QPSK	50	24	Front	5mm	1	-	Receiver off	21100	2535	18.27	19.00	1.183	0.04	0.312	0.369
30	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	-	Receiver off	21100	2535	19.47	20.00	1.130	0.03	1.180	1.333
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Headset	Receiver off	21100	2535	19.47	20.00	1.130	-0.03	1.120	1.265
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	-	Receiver off	20850	2510	19.22	20.00	1.197	0.02	1.020	1.221
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	-	Receiver off	21350	2560	19.23	20.00	1.194	0.02	1.070	1.278
	LTE Band 7	20M	QPSK	50	24	Back	5mm	1	-	Receiver off	21100	2535	18.27	19.00	1.183	0.06	0.788	0.932
	LTE Band 7	20M	QPSK	50	24	Back	5mm	1	-	Receiver off	20850	2510	18.20	19.00	1.202	0.02	0.752	0.904
	LTE Band 7	20M	QPSK	50	24	Back	5mm	1	-	Receiver off	21350	2560	18.21	19.00	1.199	0.03	0.761	0.913
	LTE Band 7	20M	QPSK	100	0	Back	5mm	1	-	Receiver off	21100	2535	18.25	19.00	1.189	0.12	0.781	0.928
	LTE Band 7	20M	QPSK	1	0	Back	5mm	3	-	Receiver off	21100	2535	19.47	20.00	1.130	-0.03	0.818	0.924
	LTE Band 66	20M	QPSK	1	49	Front	5mm	1	-	Receiver off	132322	1745	17.89	18.50	1.151	-0.02	0.410	0.472
	LTE Band 66	20M	QPSK	50	0	Front	5mm	1	-	Receiver off	132322	1745	16.79	17.50	1.178	0.06	0.364	0.429
31	LTE Band 66	20M	QPSK	1	49	Back	5mm	1	-	Receiver off	132322	1745	17.89	18.50	1.151	-0.19	0.953	1.097
	LTE Band 66	20M	QPSK	1	49	Back	5mm	1	-	Receiver off	132072	1720	17.80	18.50	1.175	0.12	0.920	1.081
	LTE Band 66	20M	QPSK	1	49	Back	5mm	1	-	Receiver off	132572	1770	17.81	18.50	1.172	0.04	0.829	0.972
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	-	Receiver off	132322	1745	16.79	17.50	1.178	0.03	0.861	1.014
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	-	Receiver off	132072	1720	16.78	17.50	1.180	-0.06	0.834	0.984
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	-	Receiver off	132572	1770	16.74	17.50	1.191	0.02	0.828	0.986
	LTE Band 66	20M	QPSK	100	0	Back	5mm	1	-	Receiver off	132322	1745	16.78	17.50	1.180	0.04	0.739	0.872
	LTE Band 66	20M	QPSK	1	49	Back	5mm	3	-	Receiver off	132322	1745	17.89	18.50	1.151	0.06	0.688	0.792

Report No.: FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 48 of 60

<WLAN2.4G SAR>

Plo No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.		Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cycle		Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.02	0.425	0.611
32	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.04	0.561	0.807
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	Full	3	2422	16.07	17.50	1.391	98.27	1.018	0.04	0.461	0.653
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	3	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.03	0.544	0.782

Report No. : FA142611

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
33	Bluetooth	1Mbps	Back	5mm	1	Full	0	2402	7.09	9.00	1.552	77.44	1.291	0.13	0.083	0.166
	Bluetooth	1Mbps	Back	5mm	3	Full	0	2402	7.09	9.00	1.552	77.44	1.291	0.02	0.072	0.143

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 49 of 60



14.4 Product specific 10g SAR

<GSM SAR>

Plo No		Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Drift	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
34	GSM1900	GPRS (4 Tx slots)	Back	0mm	1	Full	512	1850.2	24.05	24.50	1.109	-0.13	0.916	1.016
	GSM1900	GPRS (4 Tx slots)	Bottom Side	0mm	1	Full	512	1850.2	24.05	24.50	1.109	-0.01	0.755	0.837
	GSM1900	GPRS (4 Tx slots)	Back	0mm	3	Full	512	1850.2	24.05	24.50	1.109	0.01	0.905	1.004

Report No. : FA142611

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.		Power			Drift	Measured 10g SAR (W/kg)	
35	WCDMA II	RMC 12.2Kbps	Back	0mm	1	Receiver off	9538	1907.6	19.31	20.50	1.315	-0.09	1.040	1.368
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	Receiver off	9538	1907.6	19.31	20.50	1.315	-0.18	0.881	1.159
	WCDMA II	RMC 12.2Kbps	Back	0mm	3	Receiver off	9538	1907.6	19.31	20.50	1.315	0.01	0.990	1.302
	WCDMA IV	RMC 12.2Kbps	Back	0mm	1	Receiver off	1312	1712.4	17.76	19.00	1.330	0.01	0.718	0.955
36	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	1	Receiver off	1312	1712.4	17.76	19.00	1.330	-0.06	0.844	1.123
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	3	Receiver off	1312	1712.4	17.76	19.00	1.330	-0.04	0.822	1.094

<FDD LTE SAR>

Plot		BW		RB	RB	Test	Gap		Power	<u> </u>	Freq.			Tune-up		Measured	
No.	Band	(MHz)	Modulation	Size	offset	Position	(mm)	Sample	Reduction	Ch.	(MHz)	Power (dBm)	Limit (dBm)	Scaling Factor	Drift (dB)	10g SAR (W/kg)	10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	49	Back	0mm	1	Receiver off	19100	1900	20.45	21.00	1.135	-0.03	1.130	1.283
	LTE Band 2	20M	QPSK	50	0	Back	0mm	1	Receiver off	19100	1900	19.41	20.00	1.146	0.05	0.899	1.030
37	LTE Band 2	20M	QPSK	1	49	Bottom Side	0mm	1	Receiver off	19100	1900	20.45	21.00	1.135	-0.01	1.480	1.680
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	Receiver off	19100	1900	19.41	20.00	1.146	0.03	1.110	1.272
	LTE Band 2	20M	QPSK	1	49	Bottom Side	0mm	3	Receiver off	19100	1900	20.45	21.00	1.135	0.04	1.220	1.385
	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Receiver off	21100	2535	19.47	20.00	1.130	0.12	2.150	2.429
	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Receiver off	20850	2510	19.22	20.00	1.197	-0.03	1.920	2.298
	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	Receiver off	21350	2560	19.23	20.00	1.194	-0.06	2.280	2.722
	LTE Band 7	20M	QPSK	50	24	Back	0mm	1	Receiver off	21100	2535	18.27	19.00	1.183	0.06	1.840	2.177
	LTE Band 7	20M	QPSK	50	24	Back	0mm	1	Receiver off	20850	2510	18.20	19.00	1.202	0.12	1.680	2.020
	LTE Band 7	20M	QPSK	50	24	Back	0mm	1	Receiver off	21350	2560	18.21	19.00	1.199	0.08	1.810	2.171
	LTE Band 7	20M	QPSK	100	0	Back	0mm	1	Receiver off	21100	2535	18.25	19.00	1.189	0.14	1.830	2.175
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	1	Receiver off	21100	2535	19.47	20.00	1.130	-0.03	2.420	2.734
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	1	Receiver off	20850	2510	19.22	20.00	1.197	0.06	1.980	2.370
38	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	1	Receiver off	21350	2560	19.23	20.00	1.194	0.08	2.560	3.057
	LTE Band 7	20M	QPSK	50	24	Bottom Side	0mm	1	Receiver off	21100	2535	18.27	19.00	1.183	-0.04	1.910	2.260
	LTE Band 7	20M	QPSK	50	24	Bottom Side	0mm	1	Receiver off	20850	2510	18.20	19.00	1.202	0.01	1.750	2.104
	LTE Band 7	20M	QPSK	50	24	Bottom Side	0mm	1	Receiver off	21350	2560	18.21	19.00	1.199	0.12	2.010	2.411
	LTE Band 7	20M	QPSK	100	0	Bottom Side	0mm	1	Receiver off	21100	2535	18.25	19.00	1.189	0.06	1.920	2.282
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	3	Receiver off	21350	2560	19.23	20.00	1.194	0.07	2.280	2.722
	LTE Band 66	20M	QPSK	1	49	Back	0mm	1	Receiver off	132322	1745	17.89	18.50	1.151	-0.06	1.180	1.358
	LTE Band 66	20M	QPSK	50	0	Back	0mm	1	Receiver off	132322	1745	16.79	17.50	1.178	-0.04	1.020	1.201
39	LTE Band 66	20M	QPSK	1	49	Bottom Side	0mm	1	Receiver off	132322	1745	17.89	18.50	1.151	0.01	1.240	1.427
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	1	Receiver off	132322	1745	16.79	17.50	1.178	-0.03	1.120	1.319
	LTE Band 66	20M	QPSK	1	49	Bottom Side	0mm	3	Receiver off	132322	1745	17.89	18.50	1.151	0.08	0.780	0.898

<WLAN2.4G SAR>

	lot lo.	Band	Mode	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cycle	Duty Cycle Scaling Factor	Power Drift (dB)	10g SAR	Reported 10g SAR (W/kg)
-	40	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	-0.08	0.975	1.402
		WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	1	Full	1	2412	18.00	19.50	1.413	98.27	1.018	0.01	0.954	1.372

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 50 of 60

14.5 Repeated SAR Measurement

<1g>

No	0.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Sample	Gap (mm)		Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)		Reported 1g SAR (W/kg)
18	st	LTE Band 7	20M	QPSK	1	0	-	Back	1	5mm	Hotspot on	21100	2535	19.47	20.00	1.130	-	-	0.03	1.180	1	1.333
2n	nd	LTE Band 7	20M	QPSK	1	0	-	Back	1	5mm	Hotspot on	21100	2535	19.47	20.00	1.130	1	-	-0.12	1.150	1.026	1.299
18	st l	TE Band 66	20M	QPSK	1	49	-	Bottom Side	1	5mm	Hotspot on	132322	1745	16.95	17.50	1.135	,	-	0.15	0.995	1	1.129
2n	nd L	TE Band 66	20M	QPSK	1	49	-	Bottom Side	1	5mm	Hotspot on	132322	1745	16.95	17.50	1.135	-	-	0.03	0.980	1.015	1.112
18	st V	VLAN2.4GHz	1	ı		í	802.11b 1Mbps	Left Tilted	0mm	5mm	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	-0.05	0.965	1	1.316
2n	nd V	VLAN2.4GHz	-	ı	1	ı	802.11b 1Mbps	Left Tilted	0mm	5mm	Receiver on	1	2412	15.23	16.50	1.340	98.27	1.018	0.02	0.935	1.032	1.275
18	st	GSM1900	,				GPRS (4 Tx slots)	Back	1	5mm	Full	512	1850.2	24.05	24.50	1.109	,	-	-0.01	1.220	1	1.353
2n	nd	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	1	5mm	Full	512	1850.2	24.05	24.50	1.109	-	-	0.06	1.080	1.130	1.198

Report No.: FA142611

<10g>

No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)				Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	1	Receiver off	21350	2560	19.23	20.00	1.194	0.08	2.560	1	3.057
2nd	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	1	Receiver off	21350	2560	19.23	20.00	1.194	0.03	2.480	1.032	2.961

General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. The ratio is the difference in percentage between original and repeated measured SAR.
- 5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4

15. Simultaneous Transmission Analysis

			Portab	le Handset	
No.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product specific 10g SAR
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		Yes
2.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes	Yes
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	Yes
4.	LTE + WLAN2.4GHz	Yes	Yes	Yes	Yes
5.	GSM Voice + Bluetooth	Yes	Yes		Yes
6.	GPRS/EDGE + Bluetooth	Yes	Yes	Yes	Yes
7.	WCDMA + Bluetooth	Yes	Yes	Yes	Yes
8.	LTE + Bluetooth	Yes	Yes	Yes	Yes

Report No.: FA142611

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- 2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
- The reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 15.4.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4

15.1 Head Exposure Conditions

			1	2	3	1+2	1+3
WWA	N Band	Exposure Position	WWAN	2.4GHz WLAN	Bluetooth	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		Right Cheek	0.232	0.426	0.200	0.66	0.43
	GSM850	Right Tilted	0.120	0.442	0.200	0.56	0.32
	GOIVIOSO	Left Cheek	0.223	1.107	0.200	1.33	0.42
GSM		Left Tilted	0.119	1.316	0.200	1.44	0.32
OSIVI		Right Cheek	0.084	0.426	0.200	0.51	0.28
	GSM1900	Right Tilted	0.041	0.442	0.200	0.48	0.24
	G5W11900	Left Cheek	0.079	1.107	0.200	1.19	0.28
		Left Tilted	0.070	1.316	0.200	1.39	0.27
		Right Cheek	0.261	0.426	0.200	0.69	0.46
	WCDMA II	Right Tilted	0.173	0.442	0.200	0.62	0.37
	WCDIVIA II	Left Cheek	0.299	1.107	0.200	1.41	0.50
		Left Tilted	0.203	1.316	0.200	1.52	0.40
		Right Cheek	0.198	0.426	0.200	0.62	0.40
WCDMA	WCDMA IV	Right Tilted	0.144	0.442	0.200	0.59	0.34
WCDIVIA	WCDIVIA IV	Left Cheek	0.004	1.107	0.200	1.11	0.20
		Left Tilted	0.083	1.316	0.200	1.40	0.28
		Right Cheek	0.309	0.426	0.200	0.74	0.51
	WCDMA V	Right Tilted	0.243	0.442	0.200	0.69	0.44
	VVCDIVIA V	Left Cheek	0.203	1.107	0.200	1.31	0.40
		Left Tilted	0.159	1.316	0.200	1.48	0.36
		Right Cheek	0.230	0.426	0.200	0.66	0.43
	LTE Band 2	Right Tilted	0.117	0.442	0.200	0.56	0.32
	LIE Ballu 2	Left Cheek	0.179	1.107	0.200	1.29	0.38
		Left Tilted	0.186	1.316	0.200	1.50	0.39
		Right Cheek	0.192	0.426	0.200	0.62	0.39
	LTE Band 5	Right Tilted	0.109	0.442	0.200	0.55	0.31
	LIE Band 5	Left Cheek	0.175	1.107	0.200	1.28	0.38
LTE		Left Tilted	0.092	1.316	0.200	1.41	0.29
LIE		Right Cheek	0.122	0.426	0.200	0.55	0.32
	LTE Bond 7	Right Tilted	0.062	0.442	0.200	0.50	0.26
	LTE Band 7	Left Cheek	0.110	1.107	0.200	1.22	0.31
		Left Tilted	0.086	1.316	0.200	1.40	0.29
		Right Cheek	0.220	0.426	0.200	0.65	0.42
	LTE Dand CC	Right Tilted	0.116	0.442	0.200	0.56	0.32
	LTE Band 66	Left Cheek	0.150	1.107	0.200	1.26	0.35
		Left Tilted	0.140	1.316	0.200	1.46	0.34

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 53 of 60

15.2 Hotspot Exposure Conditions

			1	2	3	1+2			1+3
WWAN Band		Exposure	WWAN	2.4GHz WLAN	Bluetooth	Summed	Case	SPLSR	Summed
******	AN Danu	Position	1g SAR	1g SAR	1g SAR	1g SAR	No	SFLSK	1g SAR
		Front	(W/kg) 0.545	(W/kg) 0.611	(W/kg) 0.166	(W/kg) 1.16			(W/kg) 0.71
		Back	0.657	0.807	0.166	1.46			0.82
		Left side	0.205	0.083	0.166	0.29			0.37
	GSM850	Right side	0.203	0.321	0.166	0.66			0.50
		Top side	0.554	1.317	0.166	1.32			0.17
		Bottom side	0.482	1.017	0.166	0.48			0.65
GSM		Front	0.402	0.611	0.166	0.40			0.46
		Back	0.786	0.807	0.166	1.59			0.95
		Left side	0.700	0.007	0.166	0.30			0.39
	GSM1900	Right side	0.054	0.003	0.166	0.30			0.39
		Top side	0.034	1.317	0.166	1.32			0.22
		Bottom side	1.184	1.317	0.166	1.18			1.35
		Front	0.492	0.611	0.166	1.10			0.66
				0.807	0.166	2.00	#01	0.02	1.36
		Back Left side	1.190 0.367	0.807	0.166	0.45	#01	0.02	0.53
	WCDMA II								
		Right side	0.048	0.321	0.166	0.37			0.21
		Top side	4.040	1.317	0.166	1.32			0.17
		Bottom side	1.343	0.044	0.166	1.34			1.51
	WCDMA IV	Front	0.483	0.611	0.166	1.09	#00	0.04	0.65
		Back	0.910	0.807	0.166	1.72	#02	0.01	1.08
WCDMA		Left side	0.220	0.083	0.166	0.30			0.39
		Right side	0.073	0.321	0.166	0.39			0.24
		Top side		1.317	0.166	1.32			0.17
		Bottom side	1.235		0.166	1.24			1.40
		Front	0.764	0.611	0.166	1.38			0.93
		Back	0.991	0.807	0.166	1.80	#03	0.01	1.16
		Left side	0.278	0.083	0.166	0.36			0.44
		Right side	0.460	0.321	0.166	0.78			0.63
		Top side		1.317	0.166	1.32			0.17
		Bottom side	0.796		0.166	0.80			0.96
		Front	0.337	0.611	0.166	0.95			0.50
		Back	0.700	0.807	0.166	1.51			0.87
	LTE Band 2	Left side	0.161	0.083	0.166	0.24			0.33
		Right side	0.038	0.321	0.166	0.36			0.20
		Top side		1.317	0.166	1.32			0.17
		Bottom side	1.233		0.166	1.23			1.40
		Front	0.365	0.611	0.166	0.98			0.53
		Back	0.750	0.807	0.166	1.56			0.92
	LTE Band 5	Left side	0.151	0.083	0.166	0.23			0.32
LTE		Right side	0.239	0.321	0.166	0.56			0.41
		Top side		1.317	0.166	1.32			0.17
		Bottom side	0.646		0.166	0.65			0.81
		Front	0.416	0.611	0.166	1.03			0.58
		Back	1.333	0.807	0.166	2.14	#04	0.02	1.50
	LTE Band 7	Left side	0.141	0.083	0.166	0.22			0.31
	LIE Band /	Right side	0.111	0.321	0.166	0.43			0.28
		Top side		1.317	0.166	1.32			0.17
		Bottom side	1.311		0.166	1.31			1.48
	LTE Band 66	Front	0.386	0.611	0.166	1.00			0.55
	LIL Dallu 00	Back	0.922	0.807	0.166	1.73	#05	0.01	1.09

Report No. : FA142611

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 54 of 60

SPORTON LAB. FCC SAR Test Report

PORTON LAB. FCC	Report No. : FA142611						
	Left side	0.106	0.083	0.166	0.19		0.27
	Right side	0.522	0.321	0.166	0.84		0.69
	Top side		1.317	0.166	1.32		0.17
	Bottom side	1.129		0.166	1.13		1.30

15.3 Body-Worn Accessory Exposure Conditions

			1	2	3	1+2			1+3
WWA	AN Band	Exposure Position	WWAN	2.4GHz WLAN	Bluetooth	Summed	Case No	SPLSR	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	110		1g SAR (W/kg)
	GSM850	Front	0.545	0.611	0.166	1.16			0.71
	GSIVIOSU	Back	0.657	0.807	0.166	1.46			0.82
GSM		Front	0.500	0.611	0.166	1.11			0.67
	GSM1900	Back	1.353	0.807	0.166	2.16	#06	0.02	1.52
		Back with Headset	1.276		0.166	1.28			1.44
		Front	0.673	0.611	0.166	1.28			0.84
	WCDMA II	Back	1.420	0.807	0.166	2.23	#07	0.02	1.59
		Back with Headset	1.285		0.166	1.29			1.45
WCDMA	WCDMA IV	Front	0.782	0.611	0.166	1.39			0.95
		Back	1.136	0.807	0.166	1.94	#08	0.02	1.30
	WCDMA V	Front	0.764	0.611	0.166	1.38			0.93
		Back	0.991	0.807	0.166	1.80	#03	0.01	1.16
		Front	0.478	0.611	0.166	1.09			0.64
	LTE Band 2	Back	1.381	0.807	0.166	2.19	#09	0.02	1.55
		Back with Headset	1.289		0.166	1.29			1.46
		Front	0.365	0.611	0.166	0.98			0.53
LTE	LTE Band 5	Back	0.750	0.807	0.166	1.56			0.92
	LTE Band 7	Front	0.416	0.611	0.166	1.03			0.58
		Back	1.333	0.807	0.166	2.14	#04	0.02	1.50
		Back with Headset	1.265		0.166	1.27			1.43
	LTE Band 66	Front	0.472	0.611	0.166	1.08			0.64
	LIE Dallu 00	Back	1.097	0.807	0.166	1.90	#10	0.02	1.26

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 55 of 60

15.4 Product specific 10g SAR Exposure Conditions

			1	2	1+2	
ww	AN Band	Exposure	WWAN	2.4GHz WLAN	Summed	
		Position	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
		Back	1.016		1.02	
GSM	GSM1900	Top side		1.402	1.40	
		Bottom side	0.837		0.84	
		Back	1.368		1.37	
	WCDMA II	Top side		1.402	1.40	
WCDMA		Bottom side	1.159		1.16	
WCDIVIA		Back	0.955		0.96	
	WCDMA IV	Top side		1.402	1.40	
		Bottom side	1.123		1.12	
		Back	1.283		1.28	
	LTE Band 2	Top side		1.402	1.40	
		Bottom side	1.680		1.68	
		Back	2.722		2.72	
LTE	LTE Band 7	Top side		1.402	1.40	
		Bottom side	3.057		3.06	
		Back	1.358		1.36	
	LTE Band 66	Top side		1.402	1.40	
		Bottom side	1.427		1.43	

Report No. : FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

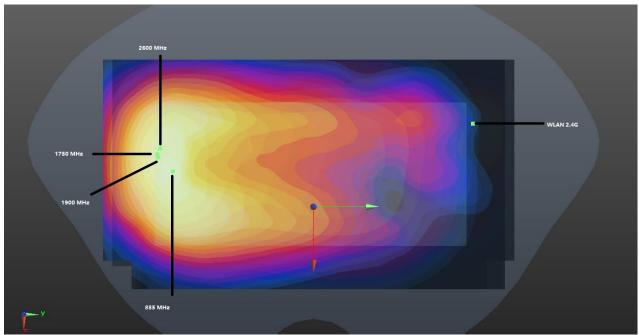
Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 56 of 60

15.5 SPLSR Evaluation and Analysis

General Note:

- When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
- 2. SPLSR = (SAR1 + SAR2)1.5 / (min. separation distance, mm). If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

Report No. : FA142611



Back for WWAN+WLAN2.4GHz_5mm

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 57 of 60



SPORTON LAB. FCC SAR Test Report

WWAN+WAN2.4G 5mm Back												
			SAR	Gap	Gap SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous	
Case 1	Band	Position	(W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR	
	WCDMA II	Back	1.19	5	-7.5	-79.5	-3.33	166 E	2.00	0.02	Not required	
	WLAN2.4GHz	Dack	0.807	5	-30.2	85.4	-3.01	166.5	2.00	0.02	Not required	
Case 2			SAR	Gap	SAR pe	ak locatio	on (mm)	3D distance (mm)	Summed	SPLSR	Simultaneous	
	Band	Position	(W/kg)	(mm)	X	Y	Z		SAR (W/kg)	Results	SAR	
	WCDMA IV	Back	0.910	5	-3.1	-78.4	-3.39	166.0	1.72	0.01	Not required	
	WLAN2.4GHz	Dack	0.807	5	-30.2	85.4	-3.01		1.72	0.01	Not required	
	Don't	Daniel au	SAR	Gap	SAR pe	ak locatio	on (mm)	3D	Summed	SPLSR	Simultaneous	
Case 3	Band	Position	(W/kg)	(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR	
	WCDMA V	Back	0.991	5	-1.4	-77	-3.37	164.9	1.80	0.01	Not required	
	WLAN2.4GHz	Dack	0.807	5	-30.2	85.4	-3.01	104.9	1.00	0.01	Not required	
	Dond	Decition	SAR	Gap	SAR pe	ak locatio	on (mm)	3D	Summed	SPLSR	Simultaneous SAR	
Case 4	Band	Position	(W/kg)	(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results		
	LTE Band 7	Back	1.333	5	-15.2	-75.4	-3.3	161.5	2.14	0.02	Not required	
	WLAN2.4GHz	Baok	0.807	5	-30.2	85.4	-3.01				Not required	
	Band	Position	SAR	Gap	SAR pe	ak locatio	on (mm)	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 5	Dallu		(W/kg)	(mm)	Х	Υ	Z					
	LTE Band 66	Back	0.922	5	-8.9	-79.9	-3.59	166.7	1.73	0.01	Not required	
	WLAN2.4GHz		0.807	5	-30.2	85.4	-3.01					
		Position	SAR	Gap	SAR peak location (mm)		3D	Summed	SPLSR	Simultaneous		
Case 6	Band		(W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR	
Ouse o	GSM1900	Deel	1.353	5	-3.4	-75	-3.51	162.6	2.16	0.02	Not required	
	WLAN2.4GHz	Back	0.807	5	-30.2	85.4	-3.01					
	D	Position	SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)	3D	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Coco 7	Band			(mm)	Х	Υ	Z	distance (mm)				
Case 7	WCDMA II		1.42	5	1.4	-77	-3.36			0.00		
	WLAN2.4GHz	Back	0.807	5	-30.2	85.4	-3.01	165.4	2.23	0.02	Not required	
			SAR	Gap	SAR pe	ak locatio	on (mm)	3D	Summed	SPLSR	Simultaneous	
Case 8	Band	Position	(W/kg)	(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR	
_ O ase 0	WCDMA IV	Pools	1.136	5	-5.9	-76.9	-3.19	164.1	1.04	0.00	Not required	
	WLAN2.4GHz	Back	0.807	5	-30.2	85.4	-3.01	164.1	1.94	0.02	Not required	
Case 9	Don't		osition SAR (W/kg)	Gap	SAR peak location (mm)		3D	Summed	SPLSR	Simultaneous		
	Band	Position		(mm)	X	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR	
	LTE Band 2	Book	Pools	Book	1.381	5	-10.7	-78.7	-3.31		2.19	0.02
	WLAN2.4GHz	Back	0.807	5	-30.2	85.4	-3.01	165.3		0.02	Not required	
	Band	Position	sition SAR (W/kg)	Gap	SAR pe	ak locatio	on (mm)	3D	Summed	SPLSR	Simultaneous	
Case 10				(mm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR	
Case 10	LTE Band 66	Deal	1.097	5	-7.4	-76.9	-3.33			0.03	Not remined	
	WLAN2.4GHz	Back	0.807	5	-30.2	85.4	-3.01	163.9	1.90	0.02	Not required	

Report No.: FA142611

Test Engineer: Nick Hu, Seven Xu, Hank Chang, Yuankai Kong

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 58 of 60

16. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

Report No.: FA142611

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 FCC ID: IHDT56ZW4 Form version. : 200414 Page 59 of 60

17. References

FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

Report No. : FA142611

- ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human [2] Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average [3] Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- SPEAG DASY System Handbook [4]
- FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation [6] Considerations" Oct 2015.
- FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and [7] Equipment Authorization Policies", Oct 2015
- FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct [8] 2015.
- FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015. [9]
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

----THE END-----

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date: Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page 60 of 60

Appendix A. Plots of System Performance Check

Report No. : FA142611

The plots are shown as follows.

Sporton International (Kunshan) Inc.

System Check_Head_835MHz

DUT: D835V2 - SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: f = 835 MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 41.314$; $\rho = 1000$

Date: 2021.5.25

 kg/m^3

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(10.21, 10.21, 10.21) @ 835 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

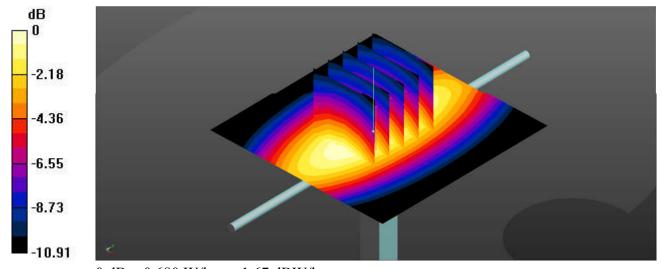
Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.711 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 30.29 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.779 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.329 W/kg

Maximum value of SAR (measured) = 0.680 W/kg



0 dB = 0.680 W/kg = -1.67 dBW/kg

System Check_Head_1750MHz

DUT: D1750V2 - SN:1090

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: f = 1750 MHz; $\sigma = 1.344$ S/m; $\varepsilon_r = 39.248$; $\rho = 1000$

Date: 2021.5.28

 kg/m^3

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

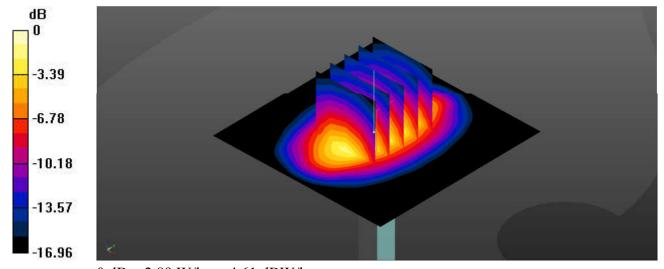
- Probe: EX3DV4 SN7627; ConvF(8.73, 8.73, 8.73) @ 1750 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 2.87 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 47.46 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 1.86 W/kg; SAR(10 g) = 0.985 W/kg

Maximum value of SAR (measured) = 2.89 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

System Check_Head_1900MHz

DUT: D1900V2 - SN:5d170

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: HSL_1900 Medium parameters used: f = 1900 MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 38.981$; $\rho = 1000$ kg/m³

Date: 2021.6.3

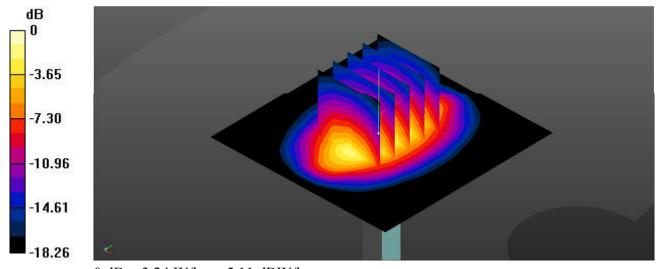
Ambient Temperature: 23.1 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.46, 8.46, 8.46) @ 1900 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 3.26 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 48.95 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 3.92 W/kg SAR(1 g) = 2.05 W/kg; SAR(10 g) = 1.06 W/kg Maximum value of SAR (measured) = 3.24 W/kg



0 dB = 3.24 W/kg = 5.11 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - SN:908

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: f = 2450 MHz; $\sigma = 1.874$ S/m; $\varepsilon_r = 40.714$; $\rho = 1000$

Date: 2021.6.9

 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8, 8, 8) @ 2450 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

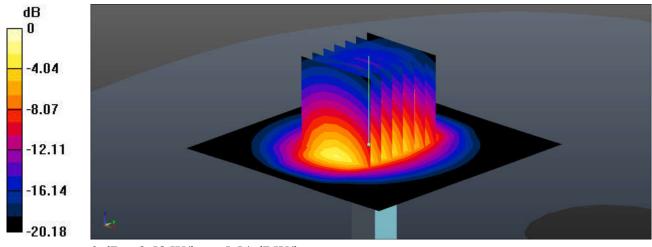
Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 3.75 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 44.97 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 5.25 W/kg

SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.31 W/kg

Maximum value of SAR (measured) = 3.58 W/kg



0 dB = 3.58 W/kg = 5.54 dBW/kg

System Check_Head_2600MHz

DUT: D2600V2 - SN:1061

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1 Medium: HSL_2600 Medium parameters used: f = 2600 MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 40.65$; $\rho = 1000$

Date: 2021.6.12

 kg/m^3

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

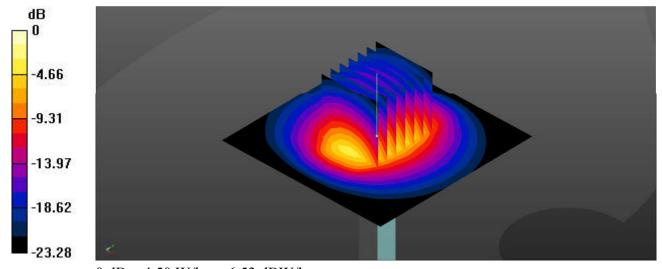
DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(7.71, 7.71, 7.71) @ 2600 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.47 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 48.68 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 5.63 W/kg

SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.18 W/kgMaximum value of SAR (measured) = 4.50 W/kg



0 dB = 4.50 W/kg = 6.53 dBW/kg

Appendix B. Plots of High SAR Measurement

Report No. : FA142611

The plots are shown as follows.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 / FAX: +86-512-57900958

Issued Date : Jun. 24, 2021 Form version. : 200414 FCC ID: IHDT56ZW4 Page B1 of B1

01_GSM850_GPRS (2 Tx slots)_Right Cheek_0mm_Ch251

Communication System: UID 0, GSM850 (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.15 Medium: HSL_835 Medium parameters used: f = 849 MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.146$; $\rho = 1000$ kg/m³

Date: 2021.5.25

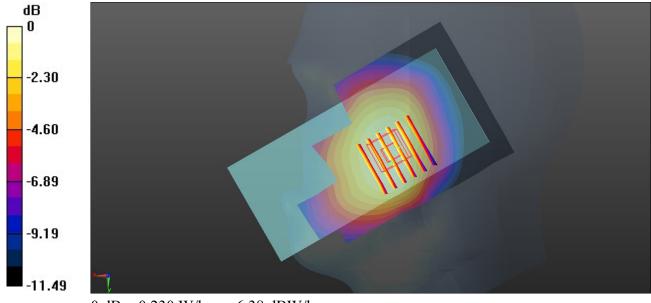
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(10.21, 10.21, 10.21) @ 849 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.230 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 15.97 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.267 W/kg **SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.164 W/kg**Maximum value of SAR (measured) = 0.230 W/kg



0 dB = 0.230 W/kg = -6.38 dBW/kg

02_GSM1900_GPRS (4 Tx slots)_Right Cheek_0mm_Ch512

Communication System: UID 0, PCS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: HSL_1900 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.077$; $\rho = 1000$ kg/m³

Date: 2021.6.3

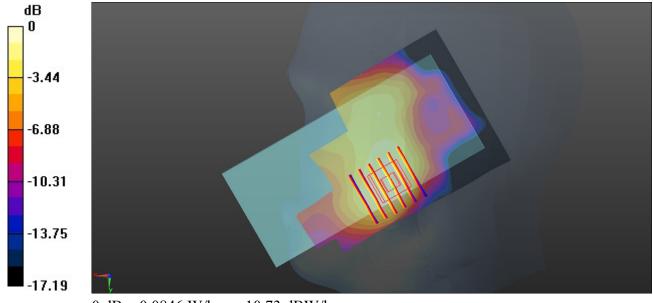
Ambient Temperature: 23.1 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.46, 8.46, 8.46) @ 1850.2 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.0934 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.884 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.108 W/kg SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.050 W/kg Maximum value of SAR (measured) = 0.0846 W/kg



0 dB = 0.0846 W/kg = -10.73 dBW/kg

03 WCDMA II RMC 12.2Kbps Left Cheek 0mm Ch9538

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: HSL_1900 Medium parameters used: f = 1908 MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 38.968$; $\rho = 1000$ kg/m³

Date: 2021.6.3

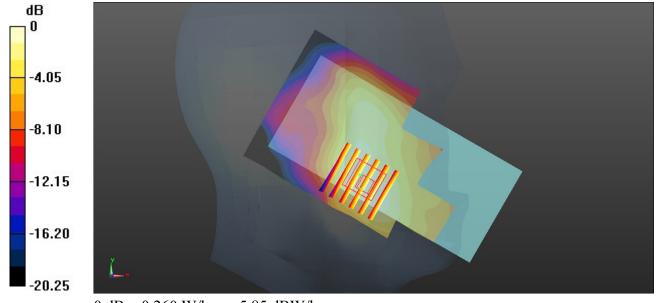
Ambient Temperature: 23.1 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.46, 8.46, 8.46) @ 1908 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.261 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.98 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.342 W/kg **SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.152 W/kg**Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

04_WCDMA IV_RMC 12.2Kbps_Right Cheek_0mm_Ch1312

Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1 Medium: HSL_1750 Medium parameters used: f = 1712.4 MHz; $\sigma = 1.322$ S/m; $\epsilon_r = 39.27$; $\rho = 1000$ kg/m³

Date: 2021.5.28

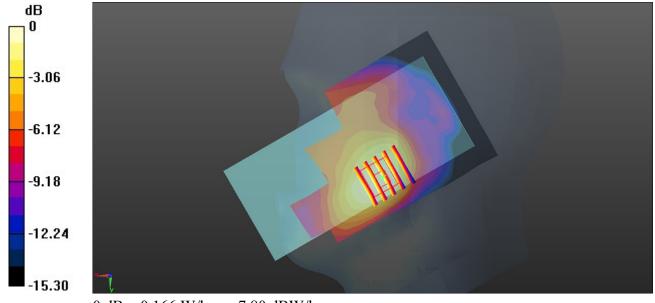
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.73, 8.73, 8.73) @ 1712.4 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.173 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.35 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.206 W/kg SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.097 W/kg Maximum value of SAR (measured) = 0.166 W/kg



0 dB = 0.166 W/kg = -7.80 dBW/kg

05_WCDMA V_RMC 12.2Kbps_Right Cheek_0mm_Ch4233

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz; Duty Cycle: 1:1 Medium: HSL_835 Medium parameters used: f = 847 MHz; $\sigma = 0.917$ S/m; $\epsilon_r = 41.171$; $\rho = 1000$ kg/m³

Date: 2021.5.25

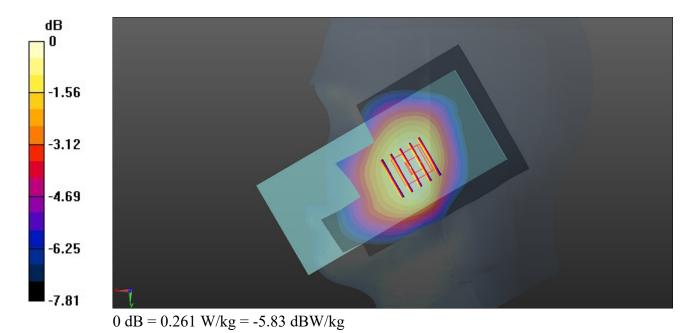
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(10.21, 10.21, 10.21) @ 847 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.258 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 16.75 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 0.296 W/kg SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.185 W/kg Maximum value of SAR (measured) = 0.261 W/kg



06 LTE Band 2 20M QPSK 1RB 49Offset Right Cheek 0mm Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: HSL_1900 Medium parameters used: f = 1900 MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 38.981$; $\rho = 1000$ kg/m³

Date: 2021.6.3

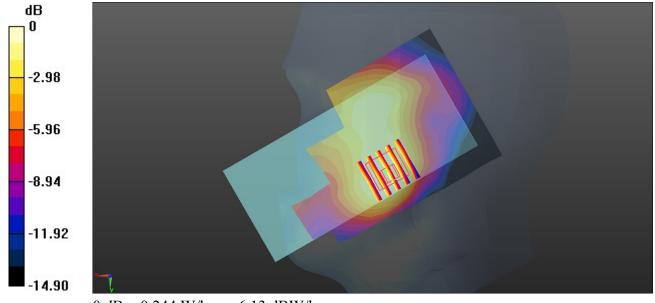
Ambient Temperature: 23.1 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.46, 8.46, 8.46) @ 1900 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.252 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.07 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.308 W/kg SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.141 W/kg Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.244 W/kg = -6.13 dBW/kg

07_LTE Band 5_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch20525

Communication System: UID 0, LTE-FDD (0); Frequency: 836.5 MHz; Duty Cycle: 1:1 Medium: HSL_835 Medium parameters used: f = 836.5 MHz; $\sigma = 0.906$ S/m; $\epsilon_r = 41.297$; $\rho = 1000$ kg/m³

Date: 2021.5.25

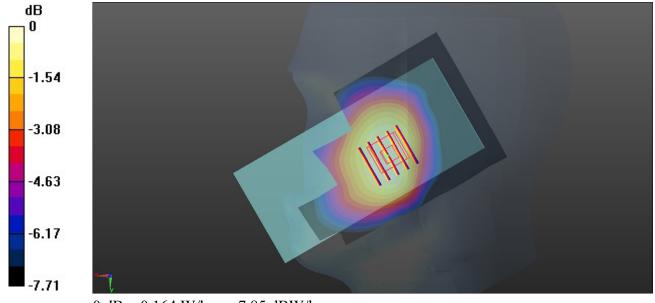
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(10.21, 10.21, 10.21) @ 836.5 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.167 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.54 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.187 W/kg SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.117 W/kg Maximum value of SAR (measured) = 0.164 W/kg



0 dB = 0.164 W/kg = -7.85 dBW/kg

08_LTE Band 7_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch21100

Communication System: UID 0, LTE-FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1 Medium: HSL_2600 Medium parameters used: f = 2535 MHz; $\sigma = 1.961$ S/m; $\epsilon_r = 40.765$; $\rho = 1000$ kg/m³

Date: 2021.6.12

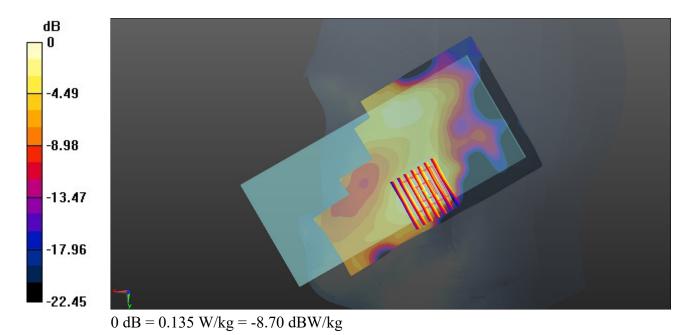
Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(7.71, 7.71, 7.71) @ 2535 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.147 W/kg

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.382 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.188 W/kg **SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.061 W/kg**Maximum value of SAR (measured) = 0.135 W/kg



09 LTE Band 66 20M QPSK 1RB 49Offset Right Cheek 0mm Ch132322

Communication System: UID 0, LTE-FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1 Medium: HSL_1750 Medium parameters used: f = 1745 MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 39.252$; $\rho = 1000$ kg/m³

Date: 2021.5.28

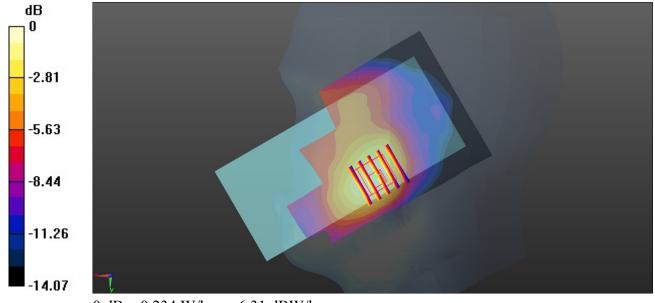
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.73, 8.73, 8.73) @ 1745 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.232 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.02 V/m; Power Drift = 0.17 dB Peak SAR (extrapolated) = 0.295 W/kg SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.131 W/kg Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg = -6.31 dBW/kg

10_WLAN2.4GHz_802.11b 1Mbps_Left Tilted_0mm_Ch1

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2412 MHz; Duty Cycle: 1:1.018 Medium: HSL_2450 Medium parameters used: f = 2412 MHz; $\sigma = 1.863$ S/m; $\epsilon_r = 40.999$; $\rho = 1000$ kg/m³

Date: 2021.6.9

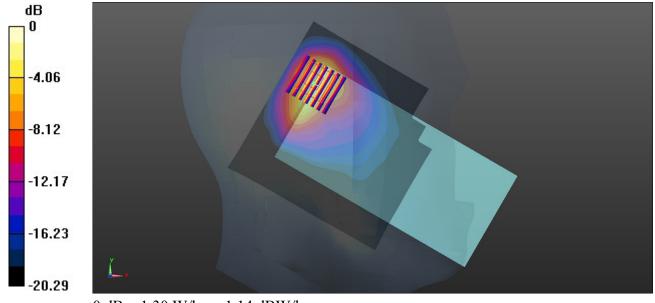
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8, 8, 8) @ 2412 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.26 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 28.03 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 2.23 W/kg **SAR(1 g) = 0.965 W/kg; SAR(10 g) = 0.410 W/kg**Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

11_Bluetooth_1Mbps_Left Tilted_0mm_Ch0

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz; Duty Cycle: 1:1.291 Medium: HSL_2450 Medium parameters used: f = 2402 MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 41.022$; $\rho = 1000$ kg/m³

Date: 2021.6.9

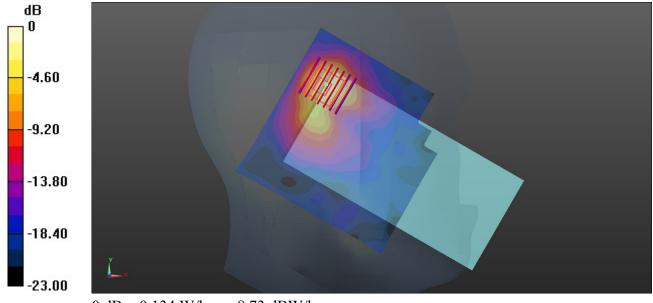
Ambient Temperature: 23.4 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8, 8, 8) @ 2402 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.136 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.827 V/m; Power Drift = -0.19 dB Peak SAR (extrapolated) = 0.238 W/kg **SAR(1 g) = 0.100 W/kg; SAR(10 g) = 0.041 W/kg**Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.134 W/kg = -8.73 dBW/kg

12_GSM850_GPRS (2 Tx slots)_Back_5mm_Ch251

Communication System: UID 0, GSM850 (0); Frequency: 848.8 MHz; Duty Cycle: 1:4.15 Medium: HSL_835 Medium parameters used: f = 849 MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.146$; $\rho = 1000$ kg/m³

Date: 2021.5.25

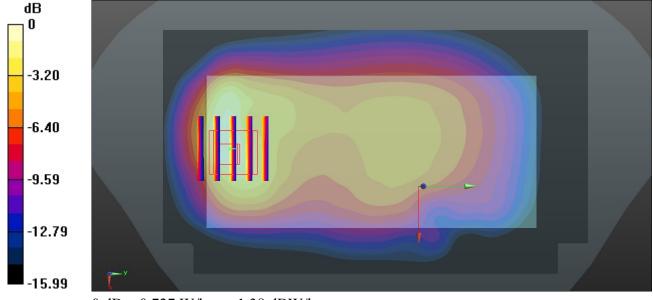
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(10.21, 10.21, 10.21) @ 848.8 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.793 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 27.53 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 1.22 W/kg SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.316 W/kg Maximum value of SAR (measured) = 0.727 W/kg



0 dB = 0.727 W/kg = -1.38 dBW/kg

13_GSM1900_GPRS (4 Tx slots)_Bottom Side_5mm_Ch512

Communication System: UID 0, PCS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: HSL_1900 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 39.077$; $\rho = 1000$ kg/m³

Date: 2021.6.3

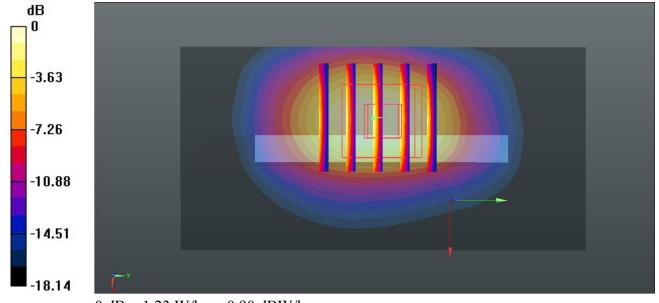
Ambient Temperature: 23.1 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7627; ConvF(8.46, 8.46, 8.46) @ 1850.2 MHz; Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.35 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 30.88 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.74 W/kg SAR(1 g) = 0.992 W/kg; SAR(10 g) = 0.515 W/kg Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg