

FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1944-2
FCC ID : IHDT56XF3
STANDARD : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2013

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.



Approved by: Mark Qu / Manager



Sporton International (Kunshan) Inc.

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA7D2007-02	Rev. 01	Initial issue of report	Feb. 24, 2018

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT1944-2**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.30	0.72	0.72	1.56
		GSM1900	0.10	0.94	0.77	
	WCDMA	Band V	0.40	0.84	0.84	
		Band II	0.20	0.93	0.87	
	LTE	Band 5	0.42	0.93	0.93	
		Band 7	0.33	1.14	1.14	
		Band 38	0.25	1.03	1.03	
DTS	WLAN	2.4GHz WLAN	1.14	0.34	0.34	1.48
DSS	Bluetooth	2.4GHz Bluetooth		<0.10	<0.10	1.19
Equipment Class	Frequency Band		Highest SAR Summary			
			Product Specific 10g SAR (W/kg) (Gap 0mm)			
Licensed	GSM	GSM1900	3.13			
	WCDMA	Band II	3.67			
	LTE	Band 7	2.87			
Date of Testing:			2017/12/25 ~ 2018/2/3			

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.

2. Administration Data

Testing Laboratory	
Test Site	Sporton International (Kunshan) Inc.
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958

Applicant	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility LLC
Address	222 W, Merchandise Mart Plaza, Chicago IL 60654 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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT1944-2
FCC ID	IHDT56XF3
IMEI Code	SIM1: 354130090007276 SIM2: 354130090007284
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is not supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth v3.0+EDR, Bluetooth v4.0 LE, Bluetooth v4.1 LE, Bluetooth v4.2 LE
HW Version	DVT1B
SW Version	nora_row_n-userdebug 8.0.0 OPP27.60 222 intcfg,test-keys
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: - This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. - This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. - This device does not support DTM operation and supports GRPS/EGRPS mode up to multi-slot class 12. - When the phone is in talking mode and receiver worked, all WWAN powers are full power. - When the phone is in talking mode and receiver worked, then power reduction will be implemented immediately in WLAN 2.4GHz. - The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device. When front or back body worn condition is detected, GSM1900, WCDMA band II and LTE band 7/38 reduced power will be active. (P-sensor can't work at detecting presence of the user's body at the four edges of the device.) - When hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM1900, WCDMA band II and LTE band 7/38. - This device hotspot reduced power and P-sensor reduced power level are the same. So only show one reduced power level for hotspot reduced power and P-sensor reduced power for this application. - P-sensor can detect handheld state, for bottom side of product specific 10g SAR condition, WCDMA band II reduced powers will be active. For GSM1900 and LTE band 7, the power levels are the same as the full power. - 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). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.	

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05								
FCC ID	IHDT56XF3							
Equipment Name	Mobile Cellular Phone							
Operating Frequency Range of each LTE transmission band	LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz							
Channel Bandwidth	LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz							
Uplink Modulations Used	QPSK and 16QAM							
LTE Voice / Data requirements	Voice and Data							
LTE Release Version	R9, Cat4							
CA Support	Not Supported							
LTE MPR permanently built-in by design	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3							
	Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
		1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
	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	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
	256 QAM	≥ 1						≤ 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 1. The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device. When front or back body worn condition is detected, LTE band 7/38 reduced power will be active. (P-sensor can't work at detecting presence of the user's body at the four edges of the device.) 2. When hotspot mode is enabled, power reduction will be activated to limit the maximum power of LTE band 7/38.							

Transmission (H, M, L) channel numbers and frequencies in each LTE band								
LTE Band 5								
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844
LTE Band 7								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560
LTE Band 38								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610

5. Re-use of Measured Data

5.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT1944-2, FCC ID: IHDT56XF3) is electrically identical to the reference device (Model: XT1944-3, XT1944-4, FCC ID: IHDT56XF4 for WWAN Bands (except for LTE Band 38) and WLAN/Bluetooth, and Model: XT1944-6, FCC ID: IHDT56XF5 for LTE Band 38) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

5.2 Difference Section

The re-used RF data includes the following bands provided in Appendix A

- a. Sporton SAR Report No. FA7D2007 for the reference device Model: XT1944-3, XT1944-4, FCC ID: IHDT56XF4 for WWAN Bands (except for LTE Band 38) and WLAN/Bluetooth.
 - GSM850/1900
 - WCDMA Band V/II
 - LTE Band 5/7
 - WLAN/Bluetooth
- b. Sporton SAR Report No. FA7D2007-01 for the reference device Model: XT1944-6, FCC ID: IHDT56XF5 for LTE Band 38.
 - LTE Band 38

Spot check for WWAN and BT/WLAN are performed for ensure that SAR measurement for both device are the same. So, the original SAR value can represent this application.

5.3 Spot Check Verification Data Section

Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Original model (FCC ID: IHDT56XF4)				Spot check model (FCC ID: IHDT56XF3)				Deviation
											Average Power (dBm)	Tune-Up Limit (dBm)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	-	Reduced	1	2412	16.20	17.00	0.922	1.136	16.20	17.00	0.910	1.121	-1.32%
GSM850	-	-	-	-	GPRS 2 Tx slots	Back	5	Full	251	848.8	29.53	30.00	0.650	0.724	29.53	30.00	0.630	0.702	-3.04%
GSM1900	-	-	-	-	GPRS 2 Tx slots	Bottom Side	5	Reduced	810	1909.8	21.98	22.50	0.835	0.941	21.98	22.50	0.740	0.834	-11.37%
WCDMA Band V	-	-	-	-	RMC 12.2Kbps	Back	5	Full	4132	826.4	23.12	24.00	0.686	0.840	23.12	24.00	0.663	0.812	-3.33%
WCDMA Band II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5	Reduced	9538	1907.6	16.20	16.50	0.867	0.929	16.20	16.50	0.744	0.797	-14.21%
LTE Band 5	10M	QPSK	1	0	-	Back	5	Full	20525	836.5	23.18	24.00	0.770	0.930	23.18	24.00	0.748	0.903	-2.90%
LTE Band 7	20M	QPSK	1	49	-	Front	5	Reduced	21350	2560	18.82	19.00	1.090	1.136	18.82	19.00	1.020	1.063	-6.43%
Bluetooth	-	-	-	-	1Mbps	Front	5	Full	39	2441	11.26	11.50	0.043	0.049	11.26	11.50	0.041	0.047	-4.08%

Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Original model (FCC ID: IHDT56XF5)				Spot check model (FCC ID: IHDT56XF3)				Deviation
											Average Power (dBm)	Tune-Up Limit (dBm)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
LTE Band 38	20M	QPSK	1	0	-	Front	5	Reduced	38000	2595	19.78	21.00	0.774	1.031	19.78	21.00	0.728	0.970	-5.92%

Note: In the table above, all the deviation of SAR test results are compliant with uncertainty budget.

5.4 Reference detail Section

Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
IHDT56XF4	RF Exposure(FA7D2007)	All sections applicable (WWAN Bands (except for LTE Band 38), WLAN, Bluetooth)
IHDT56XF5	RF Exposure(FA7D2007-01)	All sections applicable (Only LTE Band 38)

6. Simultaneous Transmission Analysis

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

General Note:

- Spot check for all WWAN bands and BT/WLAN are performed for this application and found the original SAR value can represent this application. So we chose the original data which released from original report (Sporton Report Number FA7D2007 and EA7D2007-01 or refer to Appendix A) to do co-located analysis.
- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- EUT will choose each GSM, WCDMA, and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- This device WLAN 2.4GHz supports hotspot operation and Bluetooth support tethering applications.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- All licensed modes share the same antenna part and cannot 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.
- For Bluetooth/WLAN 2.4GHz product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg. So simultaneous transmission 10g SAR is not required.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar 1g SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg.

6.1 Head Exposure Conditions

WWAN Band		Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850	Right Cheek	0.298	0.369	0.67
		Right Tilted	0.183	0.382	0.57
		Left Cheek	0.301	1.136	1.44
		Left Tilted	0.173	0.761	0.93
	GSM1900	Right Cheek	0.100	0.369	0.47
		Right Tilted	0.033	0.382	0.42
		Left Cheek	0.062	1.136	1.20
		Left Tilted	0.024	0.761	0.79
WCDMA	Band V	Right Cheek	0.374	0.369	0.74
		Right Tilted	0.234	0.382	0.62
		Left Cheek	0.403	1.136	1.54
		Left Tilted	0.249	0.761	1.01
	Band II	Right Cheek	0.203	0.369	0.57
		Right Tilted	0.094	0.382	0.48
		Left Cheek	0.144	1.136	1.28
		Left Tilted	0.069	0.761	0.83
LTE	Band 5	Right Cheek	0.393	0.369	0.76
		Right Tilted	0.233	0.382	0.62
		Left Cheek	0.424	1.136	1.56
		Left Tilted	0.240	0.761	1.00
	Band 7	Right Cheek	0.211	0.369	0.58
		Right Tilted	0.160	0.382	0.54
		Left Cheek	0.326	1.136	1.46
		Left Tilted	0.173	0.761	0.93
	Band 38	Right Cheek	0.178	0.369	0.55
		Right Tilted	0.148	0.382	0.53
		Left Cheek	0.249	1.136	1.39
		Left Tilted	0.127	0.761	0.89

6.2 Hotspot Exposure Conditions

WWAN Band		Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	2.4GHz WLAN 1g SAR (W/kg)	Bluetooth 1g SAR (W/kg)		
GSM	GSM850	Front	0.464	0.344	0.049	0.81	0.51
		Back	0.724	0.344	0.046	1.07	0.77
		Left Side	0.504			0.50	0.50
		Right Side	0.521	0.344	0.039	0.87	0.56
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.144			0.14	0.14
	GSM1900	Front	0.338	0.344	0.049	0.68	0.39
		Back	0.765	0.344	0.046	1.11	0.81
		Left Side	0.090			0.09	0.09
		Right Side	0.116	0.344	0.039	0.46	0.16
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.941			0.94	0.94
WCDMA	Band V	Front	0.641	0.344	0.049	0.99	0.69
		Back	0.840	0.344	0.046	1.18	0.89
		Left Side	0.590			0.59	0.59
		Right Side	0.577	0.344	0.039	0.92	0.62
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.197			0.20	0.20
	Band II	Front	0.390	0.344	0.049	0.73	0.44
		Back	0.872	0.344	0.046	1.22	0.92
		Left Side	0.304			0.30	0.30
		Right Side	0.314	0.344	0.039	0.66	0.35
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.929			0.93	0.93
LTE	Band 5	Front	0.775	0.344	0.049	1.12	0.82
		Back	0.930	0.344	0.046	1.27	0.98
		Left Side	0.878			0.88	0.88
		Right Side	0.726	0.344	0.039	1.07	0.77
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.190			0.19	0.19
	Band 7	Front	1.136	0.344	0.049	1.48	1.19
		Back	0.999	0.344	0.046	1.34	1.05
		Left Side	0.273			0.27	0.27
		Right Side	0.256	0.344	0.039	0.60	0.30
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.577			0.58	0.58
	Band 38	Front	1.031	0.344	0.049	1.38	1.08
		Back	0.950	0.344	0.046	1.29	1.00
		Left Side	0.308			0.31	0.31
		Right Side	0.168	0.344	0.039	0.51	0.21
		Top Side		0.344	0.037	0.34	0.04
		Bottom Side	0.577			0.58	0.58

6.3 Body-Worn Accessory Exposure Conditions

WWAN Band		Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	2.4GHz WLAN 1g SAR (W/kg)	Bluetooth 1g SAR (W/kg)		
GSM	GSM850	Front	0.464	0.344	0.049	0.81	0.51
		Back	0.724	0.344	0.046	1.07	0.77
	GSM1900	Front	0.338	0.344	0.049	0.68	0.39
		Back	0.765	0.344	0.046	1.11	0.81
WCDMA	Band V	Front	0.641	0.344	0.049	0.99	0.69
		Back	0.840	0.344	0.046	1.18	0.89
	Band II	Front	0.390	0.344	0.049	0.73	0.44
		Back	0.872	0.344	0.046	1.22	0.92
LTE	Band 5	Front	0.775	0.344	0.049	1.12	0.82
		Back	0.930	0.344	0.046	1.27	0.98
	Band 7	Front	1.136	0.344	0.049	1.48	1.19
		Back	0.999	0.344	0.046	1.34	1.05
	Band 38	Front	1.031	0.344	0.049	1.38	1.08
		Back	0.950	0.344	0.046	1.29	1.00

Test Engineer: Nick Hu

7. 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.

8. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
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Appendix A. Reference Report

Please refer to Sporton report number FA7D2007 and FA7D2007-01 which are issued separately.