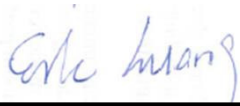


# FCC SAR Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT1929-5  
**MARKETING NAME** : Moto Z3 Play  
**FCC ID** : IHDT56XE5  
**STANDARD** : FCC 47 CFR Part 2 (2.1093)  
ANSI/IEEE C95.1-1992  
IEEE 1528-2013

We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Manager



Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)



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Appendix A. Reference Report 1

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### Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA811821-04	Rev. 01	Initial issue of report	Mar. 28, 2018



### 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Motorola Mobility LLC, Mobile Cellular Phone, XT1929-5, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Product Specific (Separation 0mm) 10g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 5mm)	Hotspot (Separation 5mm)			
		1g SAR (W/kg)					
Licensed	GSM850	0.18	0.68	0.68		1.59	
	GSM1900	0.13	1.15	1.14	1.38		
	WCDMA II	0.28	1.18	1.12	3.02		
	WCDMA V	0.41	0.90	0.90			
	LTE Band 5	0.36	0.92	0.92			
	LTE Band 7	0.80	1.10	1.10	3.19		
DTS	2.4GHz WLAN	1.12	0.80	0.84		1.55	
NII	5GHz WLAN	1.14	0.74	0.94	0.97	1.59	
DSS	Bluetooth	0.26	0.12	0.16		1.28	

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body, 4.0 W/kg for Product Specific) 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

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978

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 D05A Rel.10 LTE SAR Test Guidance v01r02
- 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	XT1929-5
Marketing Name	Moto Z3 Play
FCC ID	IHDT56XE5
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 WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz : 802.11b/g/n HT20 WLAN 5GHz : 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC:ASK



Product Feature & Specification	
HW Version	DVT2
SW Version	OPW28.22
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
<b>Remark:</b>	
<ol style="list-style-type: none"> <li>The IHDT56XE5 has the identical design as IHDT56XE1 on GSM850 / 1900, WCDMA B2 / B5 and LTE B5 /B7. Therefore, these transmitters test result is used in this report to be performed simultaneous transmission analysis and spot checks these transmitters were performed on FCC ID: IHDT56XE5 to ensure that the SAR measurements for both devices are the same, the spot check result refer to section 6</li> <li>The IHDT56XE5 has the identical design as IHDT56XE2 on 2.4GHz WLAN / Bluetooth and 5GHz WLAN. Therefore, these transmitters test result is used in this report to be performed simultaneous transmission analysis and spot checks these transmitters were performed on FCC ID: IHDT56XE5 to ensure that the SAR measurements for both devices are the same, the spot check result refer to section 6</li> <li>This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, this technique is employed in the GSM, WCDMA and LTE modes but not supports LTE B7. The detail descriptions of the antenna tuner are included in the operational description and supplemental data refer to FCC ID: IHDT56XE1, Report No.: FA811821 sectioni16.</li> <li>This device 2.4GHz / 5.8GHz WLAN supports Hotspot operation.</li> <li>When operating in a call in talk position at the head, the device utilizes the At-Head power table. When operating in a body-worn condition, with proximity of the user's body at the front or back of the device, the device operates in the Body-Worn power table. If neither the At-Head or Body-Worn condition is detected, but the device is operating in WiFi Hotspot mode, the device utilizes the Hotspot power table. When operating in any other radiated condition, the device uses the Default power table.</li> <li>The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device. The control logic is such that, when this front or back body-worn condition is detected and the device is operating in a mode where on-body operation may be expected, the conducted power is applied in the Body-Worn power table. In this condition (user's body detected at front or back face of the device), the Body-Worn power table is applied regardless whether or not the Wi-Fi hotspot mode is active.</li> <li>Note that the Body-Worn Reduced power tables and detection schemes described above are sufficient to assure that body-worn SAR limits are met, regardless whether the Wi-Fi hotspot feature is active or not. However, because FCC has an additional specific test definition and limit for Wi-Fi hotspot mode operation, the additional Hotspot power table is applied if hand-held operation is indicated (i.e., not At-Head or Body-Worn) when the Wi-Fi hotspot feature is active. This ensures the 4 edges of the device comply with the letter of the Wi-Fi Hotspot requirement.</li> <li>The device additionally employs proximity sensors that detect the presence of tissue near the currently active transmit antenna (if that antenna may require reduced power relative the Default power table in order to meet extremity SAR limits). The control logic is such that, if the Body-Worn, At-Head or WiFi Hotspot conditions are not detected, but tissue (as a finger or hand, for example) is detected near the transmitting antenna, the Handheld Reduced power table will be applied</li> <li>Reduced power for different RF exposure conditions:  Head: If audio is present at the earpiece, the device will reduce output powers on the WLAN transmitter for held-to-ear and detail descriptions of the power reduction mechanism are included in the operational description.  Body worn: The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device, when operating in near-body condition by end user, the device will reduced maximum output powers on the GSM1900, WCDMA B5 and LTE B5 / B7 transmitter and detail descriptions of the power reduction mechanism are included in the operational description.  Hotspot: When the mobile hotspot session is turn on by end user, the device will reduced output powers on the GSM1900, WCDMA B2 / B5 and LTE B5 / B7 transmitter and detail descriptions of the power reduction mechanism are included in the operational description.  Handheld: The device additionally employs proximity sensors that detect the presence of tissue near the currently active transmit antenna, the device will reduced output powers on the WCDMA B2 and LTE B5 / B7 transmitter and detail descriptions of the power reduction mechanism are included in the operational description.</li> <li>For the sensor trigger test is refer to original report, FCC ID: IHDT56XE1, Report No.: FA811821 sectioni4.3</li> </ol>	



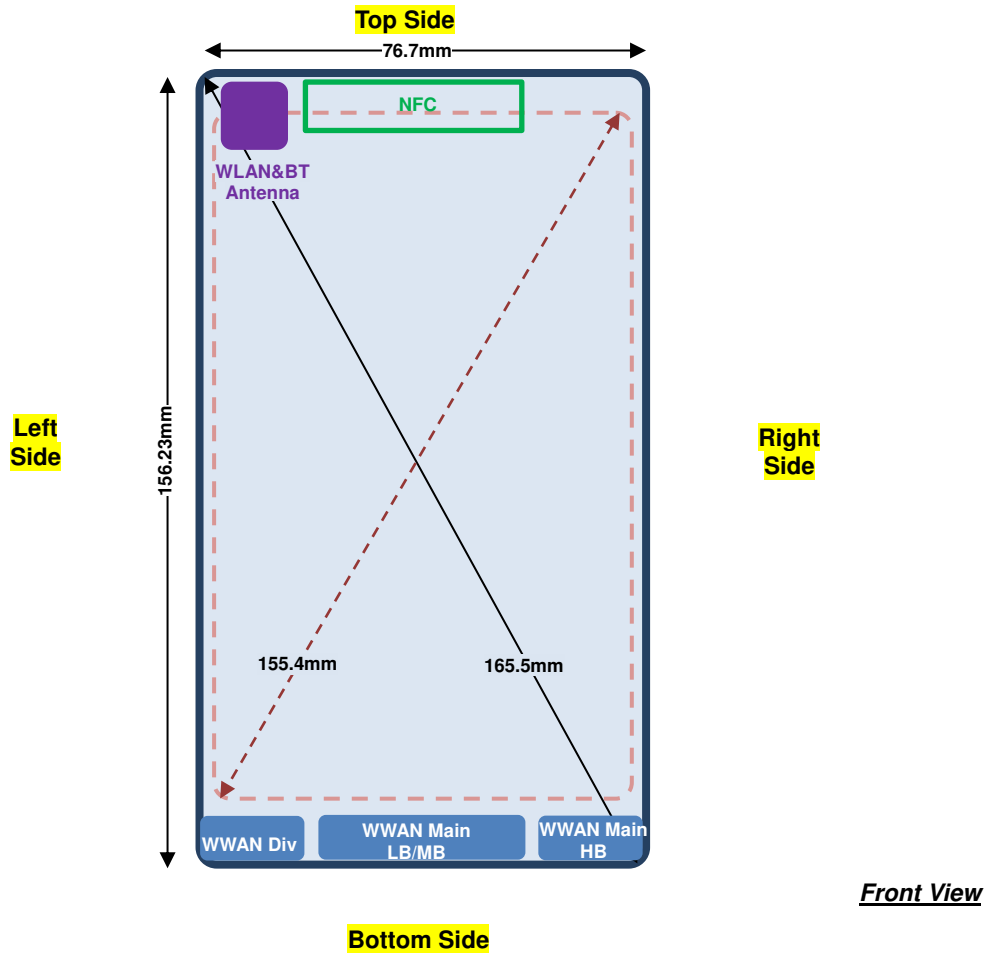
**4.2 General LTE SAR Test and Reporting Considerations**

Summarized necessary items addressed in KDB 941225 D05 v02r05								
FCC ID	IHDT56XE5							
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							
Channel Bandwidth	LTE Band 05: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 07: 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used	QPSK / 16QAM / 64QAM							
LTE Voice / Data requirements	Voice and Data							
LTE MPR permanently built-in by design	<b>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</b>							
	Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						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, when operating in hotspot mode or Near-body or Product Specific that LTE B5 / B7 power reduction applied to satisfy SAR compliance.							
LTE Carrier Aggregation Combinations	Intra-Band possible combinations please refer to FCC ID: IHDT56XE1, Report No.: FA811821, section12.							
LTE Carrier Aggregation Additional Information	This device supports maximum of 2 carriers in the downlink in the uplink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.							
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



### 5. Antenna Location

<Mobile Phone>





**6. Spot Check Verification Data**

**<Head Exposure Condition>**

Band	Mode	Test Position	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
					Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
GSM850	GPRS (2 Tx slots)	Left Cheek	128	824.2	30.31	32.00	1.476	0.123	0.182	30.20	32.00	1.514	0.114	0.173	-4.9%
GSM1900	GPRS (3 Tx slots)	Right Cheek	810	1909.8	26.87	28.00	1.297	0.099	0.128	26.37	28.00	1.455	0.086	0.125	-2.5%
WCDMA II	RMC 12.2Kbps	Right Cheek	9538	1907.6	22.73	23.50	1.194	0.233	0.278	22.64	23.50	1.219	0.187	0.228	-18.1%
WCDMA V	RMC 12.2Kbps	Left Cheek	4132	826.4	22.64	24.00	1.368	0.298	0.408	22.51	24.00	1.409	0.261	0.368	-9.8%
LTE Band 5/26	15M_QPSK_1_37	Left Cheek	26865	831.5	22.73	24.00	1.340	0.269	0.360						
LTE Band 5	10M_QPSK_1_0	Left Cheek	20525	836.5						22.42	24.00	1.439	0.215	0.309	-14.2%
LTE Band 7_Main	20M_QPSK_1_99	Right Cheek	21350	2560	22.83	24.00	1.309	0.61	0.799	22.00	24.00	1.585	0.488	0.773	-3.2%
LTE Band 7_Aux	20M_QPSK_1_99	Left Cheek	21350	2560	22.83	24.00	1.309	0.491	0.643	22.00	24.00	1.585	0.352	0.558	-13.2%

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	11	2462	16.94	18.00	95.05	0.836	1.123	16.09	18.00	99.04	0.717	1.124	0.1%
WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	60	5300	16.43	16.50	94.98	0.855	0.914	16.21	16.50	94.85	0.972	1.095	19.8%
WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	100	5500	16.48	16.50	94.98	1.080	1.142	16.45	16.50	94.85	1.120	1.194	4.6%
WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	165	5825	16.49	16.50	94.98	0.911	0.961	16.19	16.50	94.85	0.737	0.834	-13.1%
Bluetooth	1Mbps	Right Cheek	0mm	0	2402	12.26	13.00		0.220	0.261	12.61	13.00		0.249	0.272	4.4%

**<Hotspot Exposure Condition>**

Band	Mode	Test Position	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
					Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
GSM850	GPRS (2 Tx slots)	Back	128	824.2	30.31	32.00	1.476	0.460	0.679	30.20	32.00	1.514	0.371	0.562	-17.3%
GSM1900	GPRS (3 Tx slots)	Bottom Side	810	1909.80	19.68	20.50	1.208	0.944	1.140	19.52	20.50	1.253	0.842	1.055	-7.5%
WCDMA II	RMC 12.2Kbps	Bottom Side	9262	1852.4	13.95	15.50	1.429	0.786	1.123	13.50	15.50	1.585	0.622	0.986	-12.2%
WCDMA V	RMC 12.2Kbps	Back	4233	846.6	22.15	23.50	1.365	0.658	0.898	21.63	23.50	1.538	0.548	0.843	-6.1%
LTE Band 5/26	15M_QPSK_36_0	Back	26865	831.5	21.98	23.50	1.419	0.646	0.917						
LTE Band 5	10M_QPSK_1_0	Back	20525	836.5						21.74	23.50	1.500	0.529	0.793	-13.5%
LTE Band 7_Main	20M_QPSK_50_50	Back	20850	2510	16.66	18.00	1.361	0.804	1.095	17.17	18.00	1.211	0.796	0.964	-12.0%
LTE Band 7_Aux	20M_QPSK_1_49	Back	21350	2560	16.85	18.00	1.303	0.663	0.864	16.85	18.00	1.303	0.538	0.701	-18.9%

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	6	2437	18.97	19.00	98.89	0.829	0.844	18.68	19.00	99.04	0.863	0.938	11.2%
WLAN5GHz	802.11a 6Mbps	Left Side	5mm	36	5180	16.95	17.00	94.98	0.621	0.661	16.95	17.00	94.85	0.740	0.789	19.4%
WLAN5GHz	802.11a 6Mbps	Left Side	5mm	149	5745	16.94	17.00	94.98	0.882	0.941	16.78	17.00	94.85	0.701	0.777	-17.4%
Bluetooth	1Mbps	Left Side	5mm	0	2402	12.26	13.00		0.135	0.160	12.61	13.00		0.132	0.144	-9.8%



<Body-worn Exposure Condition>

Band	Mode	Test Position	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
					Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
GSM850	GPRS (2 Tx slots)	Back	128	824.2	30.31	32.00	1.476	0.460	0.679	30.20	32.00	1.514	0.371	0.562	-17.3%
GSM1900	GPRS (3 Tx slots)	Back	810	1909.8	21.05	21.50	1.109	1.04	1.154	20.95	21.50	1.135	0.936	1.062	-7.9%
WCDMA II	RMC 12.2Kbps	Front	9400	1880	16.33	17.50	1.309	0.899	1.177	16.06	17.50	1.393	0.942	1.312	11.5%
WCDMA V	RMC 12.2Kbps	Back	4233	846.6	22.15	23.50	1.365	0.658	0.898	21.63	23.50	1.538	0.548	0.843	-6.1%
LTE Band 5/26	15M_QPSK_36_0	Back	26865	831.5	21.98	23.50	1.419	0.646	0.917						
LTE Band 5	10M_QPSK_1_0	Back	20525	836.5						21.74	23.50	1.500	0.529	0.793	-13.5%
LTE Band 7_Main	20M_QPSK_50_50	Back	20850	2510	16.66	18.00	1.361	0.804	1.095	17.17	18.00	1.211	0.796	0.964	-12.0%
LTE Band 7_Aux	20M_QPSK_1_49	Back	21350	2560	16.85	18.00	1.303	0.663	0.864	16.85	18.00	1.303	0.538	0.701	-18.9%

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	802.11b 1Mbps	Back	5mm	6	2437	18.97	19.00	98.89	0.784	0.798	18.68	19.00	99.04	0.700	0.761	-4.6%
WLAN5GHz	802.11a 6Mbps	Back	5mm	52	5260	16.88	17.00	94.98	0.502	0.543	16.95	17.00	94.85	0.522	0.557	2.4%
WLAN5GHz	802.11a 6Mbps	Back	5mm	100	5500	16.71	17.00	94.98	0.657	0.739	16.96	17.00	94.85	0.592	0.630	-14.8%
WLAN5GHz	802.11a 6Mbps	Back	5mm	149	5745	16.96	17.00	94.98	0.648	0.688	16.78	17.00	94.85	0.519	0.575	-16.4%
Bluetooth	1Mbps	Back	5mm	0	2402	12.26	13.00		0.103	0.122	12.61	13.00		0.096	0.105	-14.0%

<Product Specific Exposure Condition>

Band	Mode	Test Position	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
					Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
GSM1900	GPRS (3 Tx slots)	Bottom Side	810	1909.8	26.87	28.00	1.297	1.060	1.375	26.37	28.00	1.455	0.891	1.297	-5.7%
WCDMA II	RMC 12.2Kbps	Bottom Side	9262	1852.40	22.23	23.00	1.194	2.53	3.021	21.90	23.00	1.288	1.950	2.512	-16.8%
LTE Band 7_Main	20M_QPSK_1_49	Right Side	21100	2535	20.84	21.50	1.164	2.740	3.190	21.01	21.50	1.119	2.310	2.586	-18.9%
LTE Band 7_Aux	20M_QPSK_1_49	Left Side	21350	2560	20.99	21.50	1.125	2.420	2.722	21.01	21.50	1.119	2.640	2.955	8.6%

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model					Spot Check Mode					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
WLAN5GHz	802.11a 6Mbps	Left Side	0mm	52	5260	16.88	17.00	94.98	0.781	0.845	16.84	17.00	94.85	0.840	0.919	8.7%
WLAN5GHz	802.11a 6Mbps	Left Side	0mm	100	5500	16.71	17.00	94.98	0.860	0.967	16.96	17.00	94.85	1.060	1.127	16.5%

**7. Simultaneous Transmission Analysis**

NO.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product Specific
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
9.	GSM Voice + WLAN5GHz	Yes	Yes		Yes
10.	GPRS/EDGE + WLAN5GHz	Yes	Yes	Yes	Yes
11.	WCDMA + WLAN5GHz	Yes	Yes	Yes	Yes
12.	LTE + WLAN5GHz	Yes	Yes	Yes	Yes

**General Note:**

1. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation < 1.6W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , 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  $SPLSR \leq 0.04$  for 1g SAR, if  $SPLSR < 0.1$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
  - v) The SPLSR calculated results please refer to section 7.5.



**7.1 Head Exposure Conditions**

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4	1+2 SPLSR	1+2 Case No	1+3 SPLSR	1+3 Case No	
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed	Summed	Summed					
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
GSM	GSM850	Right Cheek	0.083	1.123	1.142	0.261	<b>1.206</b>	<b>1.225</b>	<b>0.344</b>				
		Right Tilted	0.037	0.627	0.734	0.157	<b>0.664</b>	<b>0.771</b>	<b>0.194</b>				
		Left Cheek	0.182	0.317	0.361	0.077	<b>0.499</b>	<b>0.543</b>	<b>0.259</b>				
		Left Tilted	0.043	0.326	0.203	0.077	<b>0.369</b>	<b>0.246</b>	<b>0.120</b>				
	GSM1900	Right Cheek	0.128	1.123	1.142	0.261	<b>1.251</b>	<b>1.270</b>	<b>0.389</b>				
		Right Tilted	0.032	0.627	0.734	0.157	<b>0.659</b>	<b>0.766</b>	<b>0.189</b>				
		Left Cheek	0.065	0.317	0.361	0.077	<b>0.382</b>	<b>0.426</b>	<b>0.142</b>				
		Left Tilted	0.051	0.326	0.203	0.077	<b>0.377</b>	<b>0.254</b>	<b>0.128</b>				
WCDMA	WCDMA II	Right Cheek	0.278	1.123	1.142	0.261	<b>1.401</b>	<b>1.420</b>	<b>0.539</b>				
		Right Tilted	0.088	0.627	0.734	0.157	<b>0.715</b>	<b>0.822</b>	<b>0.245</b>				
		Left Cheek	0.113	0.317	0.361	0.077	<b>0.430</b>	<b>0.474</b>	<b>0.190</b>				
		Left Tilted	0.121	0.326	0.203	0.077	<b>0.447</b>	<b>0.324</b>	<b>0.198</b>				
	WCDMA V	Right Cheek	0.309	1.123	1.142	0.261	<b>1.432</b>	<b>1.451</b>	<b>0.570</b>				
		Right Tilted	0.137	0.627	0.734	0.157	<b>0.764</b>	<b>0.871</b>	<b>0.294</b>				
		Left Cheek	0.408	0.317	0.361	0.077	<b>0.725</b>	<b>0.769</b>	<b>0.485</b>				
		Left Tilted	0.146	0.326	0.203	0.077	<b>0.472</b>	<b>0.349</b>	<b>0.223</b>				
LTE	LTE Band 7_Main	Right Cheek	0.799	1.123	1.142	0.261	<b>1.922</b>	<b>1.941</b>	<b>1.060</b>	0.03	Case 1	0.02	Case 1
		Right Tilted	0.389	0.627	0.734	0.157	<b>1.016</b>	<b>1.123</b>	<b>0.546</b>				
		Left Cheek	0.348	0.317	0.361	0.077	<b>0.665</b>	<b>0.709</b>	<b>0.425</b>				
		Left Tilted	0.423	0.326	0.203	0.077	<b>0.749</b>	<b>0.626</b>	<b>0.500</b>				
	LTE Band 7_Aux	Right Cheek	0.359	1.123	1.142	0.261	<b>1.482</b>	<b>1.501</b>	<b>0.620</b>				
		Right Tilted	0.264	0.627	0.734	0.157	<b>0.891</b>	<b>0.998</b>	<b>0.421</b>				
		Left Cheek	0.643	0.317	0.361	0.077	<b>0.960</b>	<b>1.004</b>	<b>0.720</b>				
		Left Tilted	0.196	0.326	0.203	0.077	<b>0.522</b>	<b>0.399</b>	<b>0.273</b>				
	LTE Band 26	Right Cheek	0.289	1.123	1.142	0.261	<b>1.412</b>	<b>1.431</b>	<b>0.550</b>				
		Right Tilted	0.122	0.627	0.734	0.157	<b>0.749</b>	<b>0.856</b>	<b>0.279</b>				
		Left Cheek	0.360	0.317	0.361	0.077	<b>0.677</b>	<b>0.721</b>	<b>0.437</b>				
		Left Tilted	0.162	0.326	0.203	0.077	<b>0.488</b>	<b>0.365</b>	<b>0.239</b>				



**7.2 Hotspot Exposure Conditions**

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3	1+4	1+2 SPLSR	1+2 Case No	1+3 SPLSR	1+3 Case No	
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed	Summed	Summed					
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
GSM	GSM850	Front	0.359	0.441	0.670	0.090	0.800	1.029	0.449				
		Back	0.679	0.798	0.688	0.122	1.477	1.367	0.801				
		Left side	0.244	0.844	0.941	0.160	1.088	1.185	0.404				
		Right side	0.145				0.145	0.145	0.145				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	0.203				0.203	0.203	0.203				
	GSM1900	Front	0.773	0.441	0.670	0.090	1.214	1.443	0.863				
		Back	0.750	0.798	0.688	0.122	1.548	1.438	0.872				
		Left side	0.027	0.844	0.941	0.160	0.871	0.968	0.187				
		Right side	0.075				0.075	0.075	0.075				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	1.140				1.140	1.140	1.140				
WCDMA	WCDMA II	Front	0.794	0.441	0.670	0.090	1.235	1.464	0.884				
		Back	0.667	0.798	0.688	0.122	1.465	1.355	0.789				
		Left side	0.024	0.844	0.941	0.160	0.868	0.965	0.184				
		Right side	0.073				0.073	0.073	0.073				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	1.123				1.123	1.123	1.123				
	WCDMA V	Front	0.701	0.441	0.670	0.090	1.142	1.371	0.791				
		Back	0.898	0.798	0.688	0.122	1.696	1.586	1.020	0.02	Case 2		
		Left side	0.440	0.844	0.941	0.160	1.284	1.381	0.600				
		Right side	0.286				0.286	0.286	0.286				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	0.386				0.386	0.386	0.386				
LTE	LTE Band 7_Main	Front	0.642	0.441	0.670	0.090	1.083	1.312	0.732				
		Back	1.095	0.798	0.688	0.122	1.893	1.783	1.217	0.02	Case 3	0.02	Case 3
		Left side		0.844	0.941	0.160	0.844	0.941	0.160				
		Right side	0.907				0.907	0.907	0.907				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	0.265				0.265	0.265	0.265				
	LTE Band 7_Aux	Front	0.512	0.441	0.670	0.090	0.953	1.182	0.602				
		Back	0.864	0.798	0.688	0.122	1.662	1.552	0.986	0.02	Case 4		
		Left side	0.569	0.844	0.941	0.160	1.413	1.510	0.729				
		Right side					0.000	0.000	0.000				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	0.098				0.098	0.098	0.098				
	LTE Band 26	Front	0.768	0.441	0.670	0.090	1.209	1.438	0.858				
		Back	0.917	0.798	0.688	0.122	1.715	1.605	1.039	0.02	Case 5	0.01	Case 5
		Left side	0.447	0.844	0.941	0.160	1.291	1.388	0.607				
		Right side	0.310				0.310	0.310	0.310				
		Top side		0.155	0.097	0.034	0.155	0.097	0.034				
		Bottom side	0.424				0.424	0.424	0.424				



**7.3 Body-Worn Accessory Exposure Conditions**

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+2 SPLSR	1+2 Case No	1+3 SPLSR	1+3 Case No	
		WWAN 1g SAR (W/kg)	2.4GHz WLAN 1g SAR (W/kg)	5GHz WLAN 1g SAR (W/kg)	Bluetooth 1g SAR (W/kg)								
GSM	GSM850	Front	0.359	0.441	0.670	0.090	<b>0.800</b>	<b>1.029</b>	<b>0.449</b>				
		Back	0.679	0.798	0.739	0.122	<b>1.477</b>	<b>1.418</b>	<b>0.801</b>				
	GSM1900	Front	1.068	0.441	0.670	0.090	<b>1.509</b>	<b>1.738</b>	<b>1.158</b>			0.01	Case 6
		Back	1.154	0.798	0.739	0.122	<b>1.952</b>	<b>1.893</b>	<b>1.276</b>	0.02	Case 7	0.02	Case 7
WCDMA	WCDMA II	Front	1.177	0.441	0.670	0.090	<b>1.618</b>	<b>1.847</b>	<b>1.267</b>	0.01	Case 8	0.02	Case 8
		Back	1.007	0.798	0.739	0.122	<b>1.805</b>	<b>1.746</b>	<b>1.129</b>	0.02	Case 9	0.02	Case 9
	WCDMA V	Front	0.701	0.441	0.670	0.090	<b>1.142</b>	<b>1.371</b>	<b>0.791</b>				
		Back	0.898	0.798	0.739	0.122	<b>1.696</b>	<b>1.637</b>	<b>1.020</b>	0.02	Case 10	0.01	Case 10
LTE	LTE Band 7_Main	Front	0.642	0.441	0.670	0.090	<b>1.083</b>	<b>1.312</b>	<b>0.732</b>				
		Back	1.095	0.798	0.739	0.122	<b>1.893</b>	<b>1.834</b>	<b>1.217</b>	0.02	Case 11	0.02	Case 11
	LTE Band 7_Aux	Front	0.512	0.441	0.670	0.090	<b>0.953</b>	<b>1.182</b>	<b>0.602</b>				
		Back	0.864	0.798	0.739	0.122	<b>1.662</b>	<b>1.603</b>	<b>0.986</b>	0.02	Case 12	0.02	Case 12
	LTE Band 26	Front	0.768	0.441	0.670	0.090	<b>1.209</b>	<b>1.438</b>	<b>0.858</b>				
		Back	0.917	0.798	0.739	0.122	<b>1.715</b>	<b>1.656</b>	<b>1.039</b>	0.02	Case 13	0.01	Case 13



**7.4 Product Specific Conditions**

**Remark:**

1. According to KDB 941225 D06 v02r01 and KDB 648474 D04v01r03, for WWAN / 2.4GHz WLAN / Bluetooth and 5GHz WLAN SAR ("-" ) was excluded, due to transmitting antenna located larger 25mm from that surface or edge and Hotspot SAR was < 1.2W/Kg.

WWAN Band		Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth			
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)			
GSM	GSM1900	Front			0.408			0.408	
		Back			0.317			0.317	
		Left side			0.967			0.967	
		Right side							
		Top side			0.141			0.141	
		Bottom side	1.375					1.375	1.375
WCDMA	WCDMA II	Front			0.408			0.408	
		Back			0.317			0.317	
		Left side			0.967			0.967	
		Right side							
		Top side			0.141			0.141	
		Bottom side	3.021					3.021	3.021
LTE	LTE Band 7_Main	Front			0.408			0.408	
		Back			0.317			0.317	
		Left side			0.967			0.967	
		Right side	3.190				3.190	3.190	3.190
		Top side			0.141			0.141	
		Bottom side							
	LTE Band 7_Aux	Front			0.408			0.408	
		Back			0.317			0.317	
		Left side	2.722		0.967		2.722	3.689	2.722
		Right side							
		Top side			0.141			0.141	
		Bottom side							



**7.5 SPLSR Evaluation and Analysis**

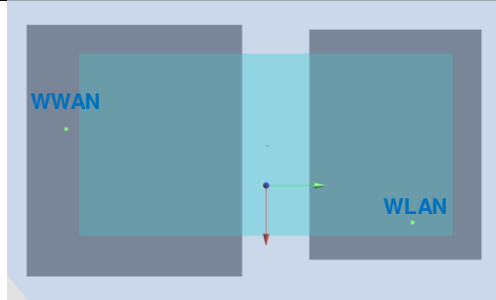
**General Note:**

- SPLSR =  $(SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$ . If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary

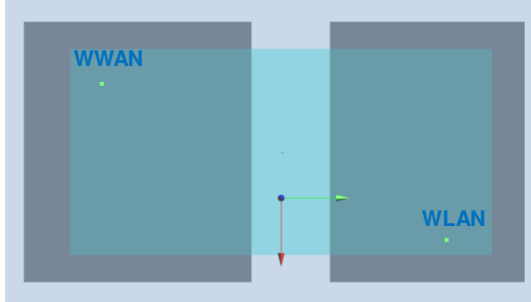
Case 1	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	LTE Band 7	Right Cheek	0.799	0	49.01	70.41	0.35	102.9	1.92	0.03	Not required
	WLAN2.4GHz		1.123	0	19.49	-28.2	-0.78				
	LTE Band 7	Right Cheek	0.799	0	49.01	70.41	0.35	108.7	1.94	0.02	Not required
	WLAN5GHz		1.142	5	15.84	-33.09	-0.26				



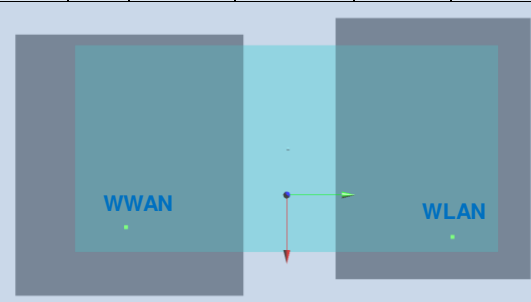
Case 2	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 2	WCDMA V	Back	0.898	5	-14	-77.7	-1.32	144.9	1.70	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				



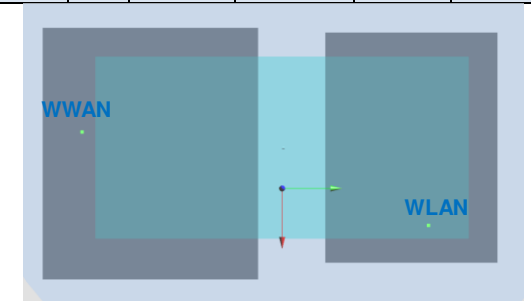
Case 3	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 3	LTE Band 7_Main	Back	1.095	5	-28.2	-66.2	-6.03	139.7	1.89	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
Case 3	LTE Band 7_Main	Back	1.095	5	-28.2	-66.2	-6.03	147.5	1.78	0.02	Not required
	WLAN5GHz		0.688	5	39.8	64.6	-0.08				



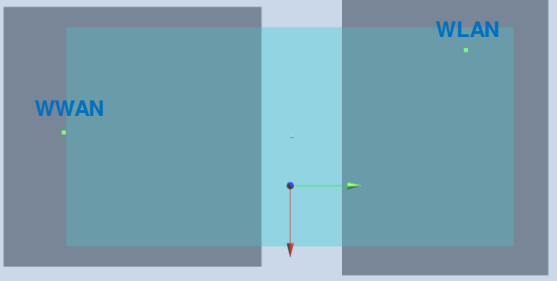
Case 4	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 4	LTE Band 7_Aux	Back	0.864	5	26.8	-60.2	0.09	119.9	1.66	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				



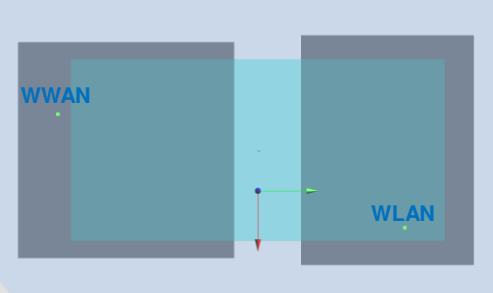
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 5	LTE Band 26	Back	0.917	5	-13.9	-79.4	-1.36	146.5	1.72	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
Case 5	LTE Band 26	Back	0.917	5	-13.9	-79.4	-1.36	153.7	1.61	0.01	Not required
	WLAN5GHz		0.688	5	39.8	64.6	-0.08				



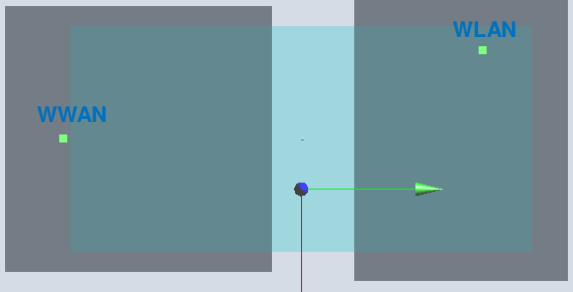
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900	Front	1.068	5	0.8	-81.5	-1.39	157.9	1.74	0.01	Not required
	WLAN5GHz		0.67	5	-33.4	72.6	-0.45				



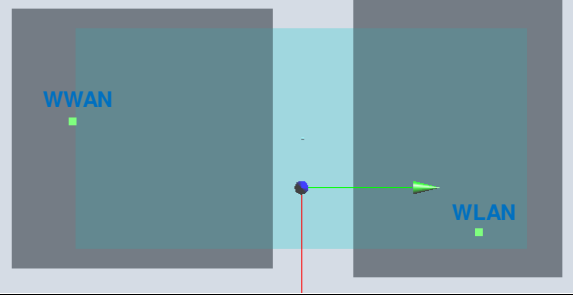
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900	Back	1.154	5	-13.4	-81.6	-1.43	148.4	1.95	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
	GSM1900	Back	1.154	5	-13.4	-81.6	-1.43	155.8	1.89	0.02	Not required
	WLAN5GHz		0.739	5	37	65.8	-0.2				



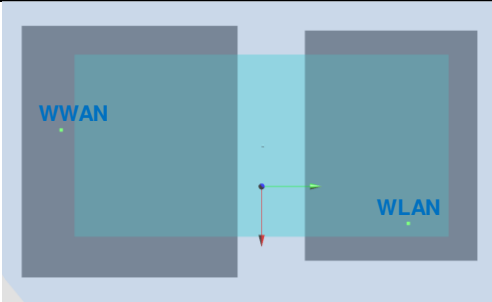
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II	Front	1.177	5	2.2	-77.9	-1.72	144.5	1.62	0.01	Not required
	WLAN2.4GHz		0.441	5	-34.8	61.8	-1.61				
	WCDMA II	Front	1.177	5	2.2	-77.9	-1.72	154.7	1.85	0.02	Not required
	WLAN5GHz		0.67	5	-33.4	72.6	-0.45				



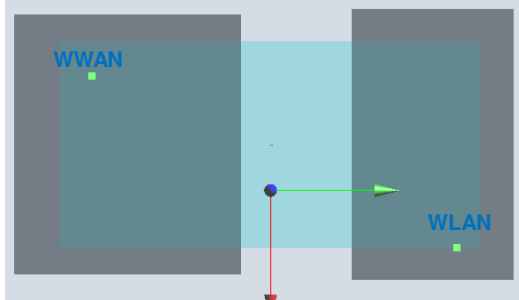
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 9	WCDMA II	Back	1.007	5	-13.4	-78	-1.78	145.0	1.81	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
Case 9	WCDMA II	Back	1.007	5	-13.4	-78	-1.78	152.4	1.75	0.02	Not required
	WLAN5GHz		0.739	5	37	65.8	-0.2				



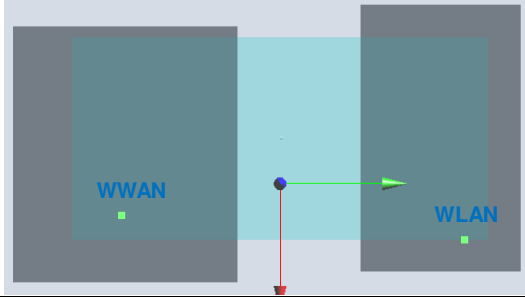
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 10	WCDMA V	Back	0.898	5	-14	-77.7	-1.32	144.9	1.70	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
Case 10	WCDMA V	Back	0.898	5	-14	-77.7	-1.32	152.3	1.64	0.01	Not required
	WLAN5GHz		0.739	5	37	65.8	-0.2				



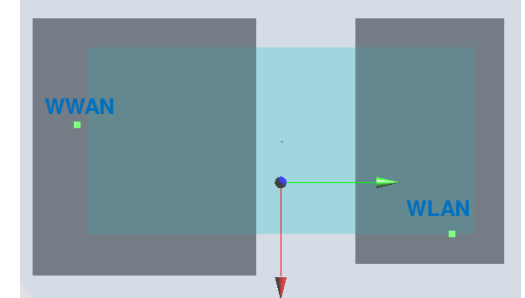
Case 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 11	LTE Band 7_Main	Back	1.095	5	-28.2	-66.2	-6.03	139.7	1.89	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
Case 11	LTE Band 7_Main	Back	1.095	5	-28.2	-66.2	-6.03	147.3	1.83	0.02	Not required
	WLAN5GHz		0.739	5	37	65.8	-0.2				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 12	LTE Band 7_Aux	Back	0.864	5	26.8	-60.2	0.09	119.9	1.66	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
	LTE Band 7	Back	0.864	5	26.8	-60.2	0.09	126.4	1.60	0.02	Not required
	WLAN5GHz		0.739	5	37	65.8	-0.2				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 13	LTE Band 26	Back	0.917	5	-13.9	-79.4	-1.36	146.5	1.72	0.02	Not required
	WLAN2.4GHz		0.798	5	32.4	59.6	-1.23				
	LTE Band 26	Back	0.917	5	-13.9	-79.4	-1.36	153.9	1.66	0.01	Not required
	WLAN5GHz		0.739	5	37	65.8	-0.2				



## **8. References**

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- [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
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
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- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.