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# **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 51.1

Product: Smartphone

Test Mode: PCS1900 with GMSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
SIM 1 Card					®				
Left Cheek	voice	661	1880.0	0.22	0.391	29.40	29.36	0.395	1.6
Left Tilt	voice	661	1880.0	-0.03	0.108	29.40	29.36	0.109	1.6
Right Cheek	voice	661	1880.0	-0.02	0.326	29.40	29.36	0.329	© 1.6
Right Tilt	voice	661	1880.0	-0.11	0.066	29.40	29.36	0.067	1.6
Body back	voice	661	1880.0	0.05	0.608	29.40	29.36	0.614	1.6
Body front	voice	661	1880.0	0.32	0.549	29.40	29.36	0.554	1.6
	60			(R)			7.0		
Body back	GPRS-3 slot	661	1880	0.19	0.752	26.50	26.41	0.768	1.6
Body front	GPRS-3 slot	661	1880.0	0.08	0.643	26.50	26.41	0.656	1.6
Edge 2(Right)	GPRS-3 slot	661	1880.0	-0.01	0.154	26.50	26.41	0.157	1.6
Edge 3(Bottom)	GPRS-3 slot	661	1880.0	0.06	0.481	26.50	26.41	0.491	1.6
Edge 4(Left)	GPRS-3 slot	661	1880.0	-0.27	0.162	26.50	26.41	0.165	1.6

#### Note:

• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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Inspection he test results

# **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 51.1

Product: Smartphone

Test Mode: WCDMA Band II with QPSK modulation

				_		Max.		l <u>.</u>	
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	9400	1880	0.31	0.619	22.80	22.76	0.625	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.25	0.139	22.80	22.76	0.140	1.6
Right Cheek	RMC 12.2kbps	9400	1880	-0.26	0.686	22.80	22.76	0.692	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.14	0.111	22.80	22.76	0.112	® 1.6
Body back	RMC 12.2kbps	9262	1852.4	-0.16	1.091	22.80	22.63	1.135	1.6
Body back	RMC 12.2kbps	9400	1880	0.02	1.114	22.80	22.76	1.124	1.6
Body back	RMC 12.2kbps	9538	1907.6	0.23	1.090	22.80	22.54	1.157	1.6
Body front	RMC 12.2kbps	9262	1852.4	-0.15	1.029	22.80	22.63	1.070	1.6
Body front	RMC 12.2kbps	9400	1880	-0.06	1.006	22.80	22.76	1.015	1.6
Body front	RMC 12.2kbps	9538	1907.6	0.24	1.028	22.80	22.54	1.091	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.10	0.264	22.80	22.76	0.266	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	-0.02	0.713	22.80	22.76	0.720	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.35	0.328	22.80	22.76	0.331	1.6

#### Note:

• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

•The test separation for body back, body front and 4 Edges is 10mm of all above table.

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/Inspection The test results

ne test report.

### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 50.4

Product: Smartphone

Test Mode: WCDMA Band V with QPSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	4183	836.6	0.24	0.243	23.80	23.70	0.249	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	-0.18	0.161	23.80	23.70	0.165	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	0.52	0.249	23.80	23.70	0.255	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	-0.31	0.166	23.80	23.70	0.170	1.6
Body back	RMC 12.2kbps	4183	836.6	-0.04	0.373	23.80	23.70	0.382	1.6
Body front	RMC 12.2kbps	4183	836.6	0.27	0.284	23.80	23.70	0.291	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	-0.10	0.157	23.80	23.70	0.161	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	0.06	0.039	23.80	23.70	0.040	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	0.32	0.125	23.80	23.70	0.128	1.6

#### Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

•The test separation for body back, body front and 4 Edges is 10mm of all above table.

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### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 46.3

Product: Smartphone

Test Mode: LTE Band 4

ВМ			Test M	lode		Freq.	Power	SAR	Max. Tuneu	Meas.	Scaled	Limit
MHz	MOD	Position	UL RB Allocation	UL RB START	Ch.	(MHz)	Drift (<±5%)	(1g) (W/kg)	p Power (dBm)	Power (dBm)	SAR (W/Kg)	(W/kg)
	9	Left Cheek	1	0	20175	1732.5	0.17	0.527	24.40	23.93	0.587	1.6
		Left Tilt	1	0	20175	1732.5	0.05	0.262	24.40	23.93	0.292	1.6
	- (	Right Cheek	1	© O	20175	1732.5	-0.36	0.607	24.40	23.93	0.676	3 1.6
		Right Tilt	1	0	20175	1732.5	-0.24	0.267	24.40	23.93	0.298	1.6
		Body back	1	0	20050	1720	-0.31	0.888	24.40	24.02	0.969	1.6
	- 0	Body back	1	0	20175	1732.5	0.05	0.878	24.40	23.93	0.978	1.6
		Body back	1	0	20300	1745	-0.28	0.896	24.40	24.34	0.908	1.6
20	QPSK	Body front	1	0	20050	1720	-0.53	0.933	24.40	24.02	1.018	1.6
	@	Body front	1	0	20175	1732.5	-0.20	0.905	24.40	23.93	1.008	1.6
	C	Body front	1	0	20300	1745	0.02	0.945	24.40	24.34	0.958	1.6
		Edge 2(Right)	39	0	20175	1732.5	-0.12	0.295	24.40	23.93	0.329	1.6
a.C	) 	Edge 3(Bottom)	1	0	20175	1732.5	0.04	0.776	24.40	23.93	0.865	1.6
	- (	Edge 4(Left)	1	<b>0</b>	20175	1732.5	0.16	0.239	24.40	23.93	0.266	1.6

#### Note:

• When the 1-g Reported SAR is  $\leq$  0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498. • The test separation for body back, body front and 4 Edges is 10mm of all above table.

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### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 51.3

Product: Smartphone

Test Mode: LTE Band 7

вм	мор	Besides	Test M	ode	O!	Freq.	Power	SAR	Max. Tuneup	Meas. output	Scaled	Limit
MHz	MOD	Position	UL RB Allocation	UL RB START	Ch.	(MHz)	Drift (<±5%)	(1g) (W/kg)	Power (dBm)	Power (dBm)	SAR (W/Kg)	(W/kg
	3)	Left Cheek	1	0	21100	2535	0.21	0.668	24.10	24.01	0.682	1.6
		Left Tilt	1	0	21100	2535	0.05	0.100	24.10	24.01	0.102	1.6
	<	Right Cheek	1	0	21100	2535	0.27	0.725	24.10	24.01	0.740	<sub>©</sub> 1.6
		Right Tilt	1	0	21100	2535	-0.43	0.094	24.10	24.01	0.096	1.6
		Body back	1	0	20850	2510	0.16	1.181	24.10	23.94	1.225	1.6
		Body back	® 1	0	21100	2535	0.25	1.210	24.10	24.01	1.235	1.6
		Body back	1	0	21350	2560	-0.37	1.278	24.10	23.87	1.348	1.6
		Body front	1	0	20850	2510	-0.04	1.151	24.10	23.94	1.194	1.6
	8	Body front	1	0	21100	2535	-0.10	1.163	24.10	24.01	1.187	1.6
		Body front	1	0	21350	2560	-0.03	1.180	24.10	23.87	1.244	1.6
20	QPSK	Edge 2(Right)	10	0	21100	2535	-0.05	0.047	24.10	24.01	0.048	1.6
	3	Edge 3(Bottom)	1	0	20850	2510	0.27	0.958	24.10	23.94	0.994	1.6
	1	Edge 3(Bottom)	1	0	21100	2535	-0.32	0.939	24.10	24.01	0.959	1.6
		Edge 3(Bottom)	1	0	21350	2560	0.15	0.965	24.10	23.87	1.017	1.6
		Edge 4(Left)	1	0	21100	2535	-0.27	0.045	24.10	24.01	0.046	1.6
	C	Body back+Ear.	1	0	20850	2510	0.42	1.174	24.10	23.94	1.218	1.6
	©	Body back+Ear.	1	0	21100	2535	-0.32	1.190	24.10	24.01	1.215	1.6
	C	Body back+Ear.	1	0	21350	2560	0.38	1.263	24.10	23.87	1.332	1.6

#### Note:

When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
 The test separation for body back, body front and 4 Edges is 10mm of all above table.

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### **SAR MEASUREMENT**

Depth of Liquid (cm):>15 Relative Humidity (%): 48.2

Product: Smartphone

Test Mode:802.11b

163t Wode.002.1	10								
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
Left Cheek	DTS	6	2437	0.05	0.150	10.30	10.24	0.152	1.6
Left Tilt	DTS	6	2437	0.32	0.092	10.30	10.24	0.093	1.6
Right Cheek	DTS	6	2437	-0.05	0.259	10.30	10.24	0.263	<sub>©</sub> 1.6
Right Tilt	DTS	6	2437	-0.24	0.182	10.30	10.24	0.185	1.6
Body back	DTS	6	2437	0.11	0.173	10.30	10.24	0.175	1.6
Body front	DTS	6	2437	-0.08	0.063	10.30	10.24	0.064	1.6
Edge 1 (Top)	DTS	6	2437	-0.30	0.043	10.30	10.24	0.044	1.6
Edge 4(Left)	DTS	6	2437	-0.09	0.048	10.30	10.24	0.049	1.6

#### Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- •The test separation for body back, body front and 4 Edges is 10mm of all above table.

# Repeated SAR

Product: Smartphone

Test Mode: WCDMA Band II with QPSK modulation

Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Body back	RMC 12.2kbps	9400	1880	0.20	1.090			-	-	1.6

### **SAR MEASUREMENT**

Product: Smartphone

Test Mode: LTE Band 4& LTE Band 7

вм	I MOD I Position		Test Mode		Ch	Freq.	Power Drift	Once SAR	Power	Twice SAR	Power	Third SAR	Limit
MHz	MIOD	Position	UL RB Allocation	UL RB START	Ch.	(MHz)	(<±5%)	(1g) (W/kg)	Drift (<±5%)	(1g) (W/kg)	Drift (<±5%)	(1g) (W/kg)	(W/kg)
20	QPSK	Body front	1	0	20300	1745	0.13	0.944	®			10	1.6
20	<b>WF3N</b>	Body back	1	0	21350	2560	0.10	1.222	60	(		8	1.6

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# **Simultaneous Multi-band Transmission Evaluation:**

**Application Simultaneous Transmission information:** 

NO	Simultanaava atata		Portable Handse	t
NO	Simultaneous state	Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data)	Yes	Yes	- (
2	GSM(voice)+ Bluetooth(data)	<i>J</i>	Yes	-0
3	GSM (Data) + WLAN 2.4GHz (data)	39-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5 🏻	WCDMA+ WLAN 2.4GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	- 6 -	Yes	Yes
7	LTE + WLAN 2.4GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(data)		Yes	Yes

#### NOTE:

- 1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
- 2. Simultaneous with every transmitter must be the same test position.
- 3. KDB 447498 D01, BT SAR is excluded as below table.
- 4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 10mm for body-worn SAR.
- 5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
  - [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR<sup>30</sup>, where
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
  - The result is rounded to one decimal place for comparison
  - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

- 6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
  - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
  - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
  - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
  - (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[ $\sqrt{f(GHz)/x}$ ] W/kg for test separation distances  $\leq$  50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimat	ed SAR	Max Power inc Toler	luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)	
		dBm	mW	Distance (min)	(vv/kg)	
BT	Head	4	2.512	0	0.104	
	Body	0 4	2.512	10	0.052	

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# Sum of the SAR for GSM 850 &Wi-Fi & BT:

DE Evnocuro	Test	Simultaneo	ous Transmissio	on Scenario	Σ1-g SAR	SPLSR
RF Exposure Conditions	Position	GSM 850	WI-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
	Left Touch	0.335	0.152		0.487	No
Head	Left Tilt	0.224	0.093		0.317	No
(voice)	Right Touch	0.358	0.263		0.621	No
	Right Tilt	0.247	0.185		0.432	No
®	Book	0.428	0.175		0.603	No
Body-worn	Rear	0.428		0.052	0.480	No
(voice)	France	0.431	0.064		0.495	No
	Front	0.431		0.052	0.483	No
0	2	0.574		0.052	0.626	No
Body-worn	Rear	0.574	0.175		0.749	No
(Data)	<b>E</b>	0.404		0.052	0.456	No
	Front	0.404	0.064		0.468	No
Body-worn	Edge 4	0.235	0.049		0.284	No
(Hotspot)	Edge 4	0.235		0.052	0.287	No

### Note:

- -According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- ·SPLSR mean is "The SAR to Peak Location Separation Ratio '

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# Sum of the SAR for GSM 1900 &Wi-Fi & BT:

DE Evnocuro	Test	Simultaneo	ous Transmission	on Scenario	71 ~ CAD	SPLSR
RF Exposure Conditions	Position	PCS 1900	WI-Fi DTS Band	Bluetooth	Σ1-g SAR (W/Kg)	(Yes/No)
	Left Touch	0.395	0.152		0.547	No
Head	Left Tilt	0.109	0.093		0.202	No
(voice)	Right Touch	0.329	0.263		0.592	No
	Right Tilt	0.067	0.185		0.252	No
®	Book	0.614	0.175		0.789	No
Body-worn	Rear	0.614		0.052	0.666	No
(voice)	Frant	0.554	0.064		0.618	No
	Front	0.554		0.052	0.606	No
0	D	0.768		0.052	0.820	No
Body-worn	Rear	0.768	0.175		0.943	No
(Data)	Front	0.656		0.052	0.708	No
	Front	0.656	0.064		0.720	No
Body-worn	Edge 4	0.165	0.049		0.214	No
(Hotspot)	Edge 4	0.165		0.052	0.217	No

### Note:

-According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Residual Algorithms and the report is not permitted without the written authorization of AGC where the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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# Sum of the SAR for WCDMA Band II &Wi-Fi & BT:

RF Exposure Test		Simultaneo	ous Transmissio	on Scenario	71 ~ CAD	SPLSR
	Position	WCDMA Band II	Wi-Fi DTS Band	Bluetooth	Σ1-g SAR (W/Kg)	(Yes/No)
	Left Touch	0.625	0.152		0.777	No
l land	Left Tilt	0.140	0.093		0.233	No
Head	Right Touch	0.692	0.263		0.955	No
	Right Tilt	0.112	0.185		0.297	No
8	Rear	1.157	0.175		1.332	No
	Front	1.091	0.064		1.155	No
D	Edge 4	0.331	0.049		0.380	No
Body-worn	Rear	1.157		0.052	1.209	No
	Front	1.091		0.052	1.143	No
	Edge 4	0.331		0.052	0.383	No

### Note:

- ·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- ·SPLSR mean is "The SAR to Peak Location Separation Ratio "

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# Sum of the SAR for WCDMA Band V &Wi-Fi & BT:

DE Evposuro	Test	Simultaneous Transmission Scenario			71 ~ CAD	SPLSR
RF Exposure Conditions Position		WCDMA Band V	Wi-Fi DTS Band	Bluetooth	- Σ1-g SAR (W/Kg)	(Yes/No)
	Left Touch	0.249	0.152		0.401	No
Head	Left Tilt	0.165	0.093		0.258	No
Head	Right Touch	0.255	0.263		0.518	No No
	Right Tilt	0.170	0.185		0.355	No
®	Rear	0.382	0.175		0.557	No
	Front	0.291	0.064		0.355	No
Dadama	Edge 4	0.128	0.049		0.177	No
Body-worn	Rear	0.382		0.052	0.434	No
	Front	0.291		0.052	0.343	No
	Edge 4	0.128		0.052	0.180	No

### Note:

- ·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.
- ·SPLSR mean is "The SAR to Peak Location Separation Ratio "

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# Sum of the SAR for LTE Band 4 &Wi-Fi & BT:

RF Exposure Conditions Position		Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 4	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
	Left Touch	0.587	0.152		0.739	No
Head	Left Tilt	0.292	0.093		0.385	No
Head	Right Touch	0.676	0.263		0.939	○ No
	Right Tilt	0.298	0.185		0.483	No
8	Rear	0.978	0.175		1.153	No
	Front	1.018	0.064		1.082	No
Dadama	Edge 4	0.266	0.049		0.315	No
Body-worn	Rear	0.978		0.052	1.030	No
	Front	1.018		0.052	1.070	No
	Edge 4	0.266		0.052	0.318	No

### Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio "

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# Sum of the SAR for LTE Band 7 &Wi-Fi & BT:

RF Exposure Conditions Position		Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		LTE Band 7	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
	Left Touch	0.682	0.152		0.834	No
Usad	Left Tilt	0.102	0.093		0.195	No
Head	Right Touch	0.740	0.263		1.003	No
	Right Tilt	0.096	0.185		0.281	No
8	Rear	1.348	0.175		1.523	No
C	Front	1.244	0.064		1.308	No
Dadwara	Edge 4	0.046	0.049		0.095	No
Body-worn	Rear	1.348		0.052	1.400	No
	Front	1.244		0.052	1.296	No
	Edge 4	0.046		0.052	0.098	No

### Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is "The SAR to Peak Location Separation Ratio "

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# APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Oct. 24,2020

System Check Head 835 MHz

DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.26 Frequency: 835 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.88$  mho/m;  $\epsilon r = 40.63$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.2, Liquid temperature (°C): 20.9

### **SATIMO Configuration:**

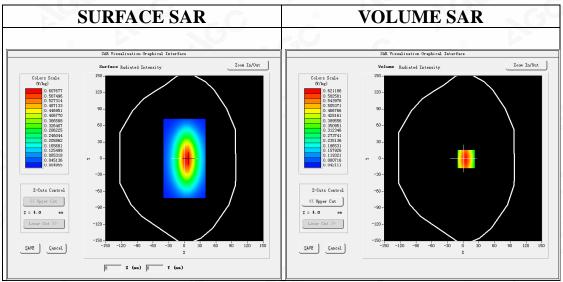
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

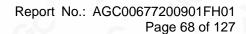
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



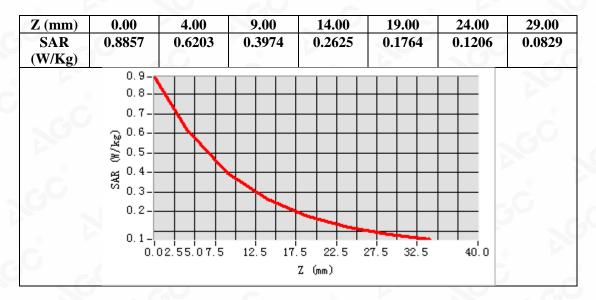
Maximum location: X=6.00, Y=-1.00 SAR Peak: 0.89 W/kg

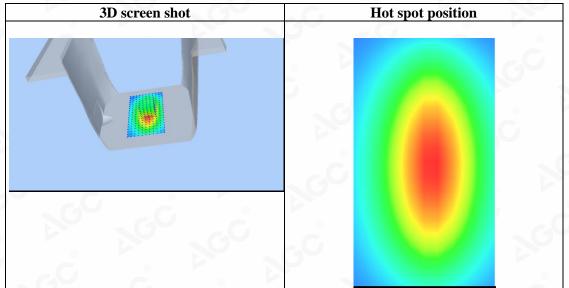
	8
<b>SAR 10g (W/Kg)</b>	0.389577
SAR 1g (W/Kg)	0.596385

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Date: Oct. 27,2020

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The test results

he test report.

Test Laboratory: AGC Lab System Check Head 1750MHz

DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=4.48 Frequency: 1750 MHz; Medium parameters used: f = 1800 MHz;  $\sigma = 1.36 \text{ mho/m}$ ;  $\epsilon r = 39.57$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C): 21.7, Liquid temperature ( $^{\circ}$ C): 21.5

**SATIMO Configuration:** 

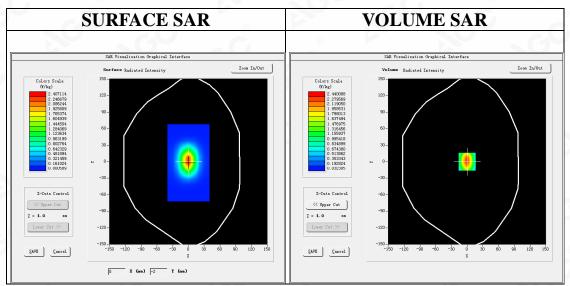
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

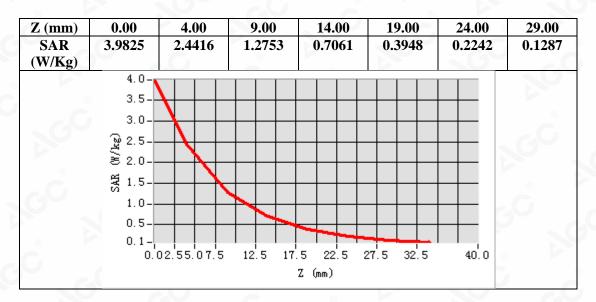


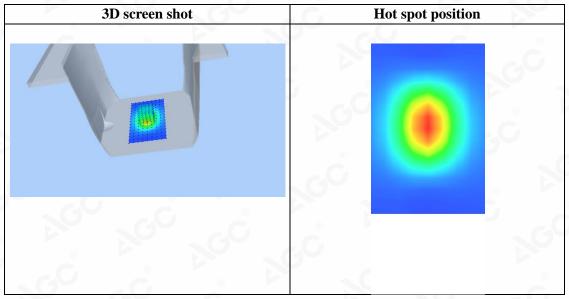
Maximum location: X=0.00, Y=0.00 SAR Peak: 3.97 W/kg

	0
<b>SAR 10g (W/Kg)</b>	1.178275
SAR 1g (W/Kg)	2.298637

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Date: Oct. 26,2020

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Test Laboratory: AGC Lab System Check Head 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72 Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.38$  mho/m;  $\epsilon r = 39.52$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C):21.4, Liquid temperature ( $^{\circ}$ C): 21.2

**SATIMO Configuration:** 

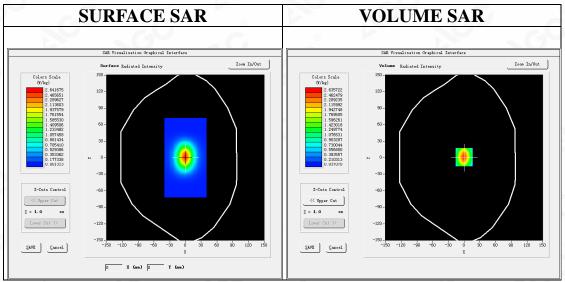
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

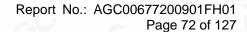
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



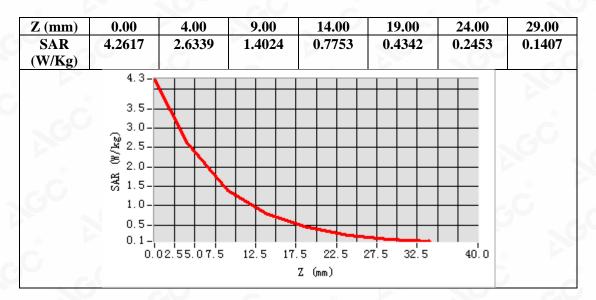
Maximum location: X=0.00, Y=1.00 SAR Peak: 4.23 W/kg

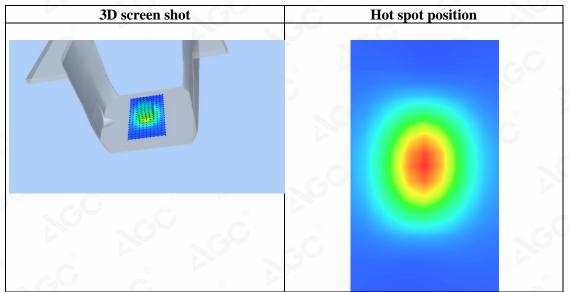
	8
<b>SAR 10g (W/Kg)</b>	1.250757
SAR 1g (W/Kg)	2.475391

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Date: Oct. 28,2020

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The test results

he test report.

Test Laboratory: AGC Lab System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.23 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz;  $\sigma = 1.85$  mho/m;  $\epsilon r = 38.91$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C):21.4, Liquid temperature ( $^{\circ}$ C): 21.2

### **SATIMO Configuration**

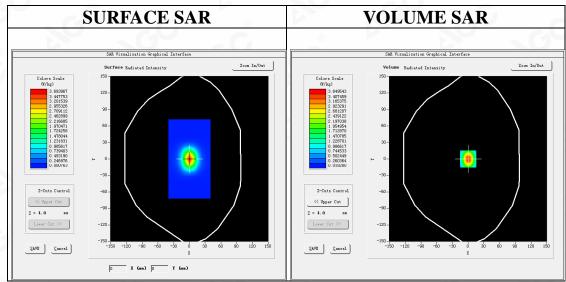
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

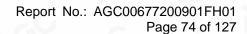
Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



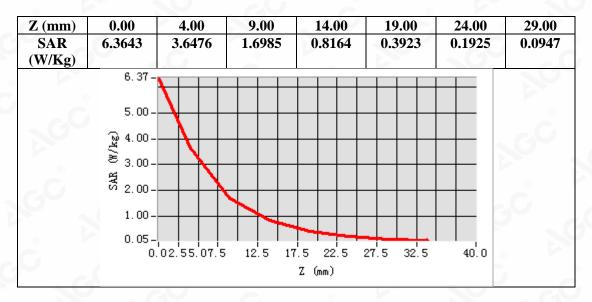
Maximum location: X=0.00, Y=0.00 SAR Peak: 6.28 W/kg

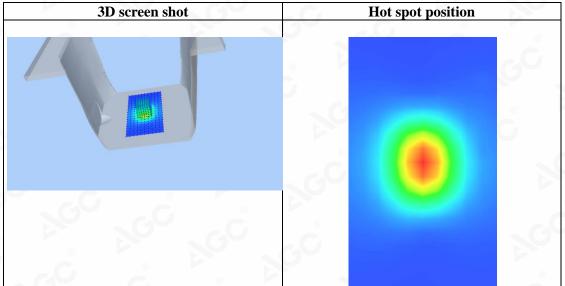
SAR 10g (W/Kg)	1.495684	
SAR 1g (W/Kg)	3.338361	

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Date: Oct. 29,2020

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The test results

Test Laboratory: AGC Lab System Check Head 2600MHz

DUT: Dipole 2600 MHz; Type: SID 2600

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=3.81 Frequency:2600 MHz; Medium parameters used: f = 2600 MHz;  $\sigma = 1.95$  mho/m;  $\epsilon r = 38.23$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ( $^{\circ}$ C): 21.9, Liquid temperature ( $^{\circ}$ C): 21.6

### **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

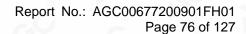
Measurement SW: OpenSAR V4\_02\_35

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

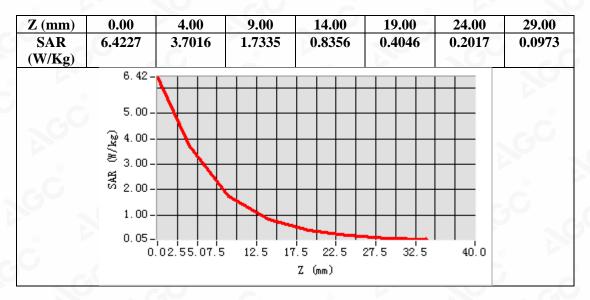
Maximum location: X=1.00, Y=0.00 SAR Peak: 6.40 W/kg

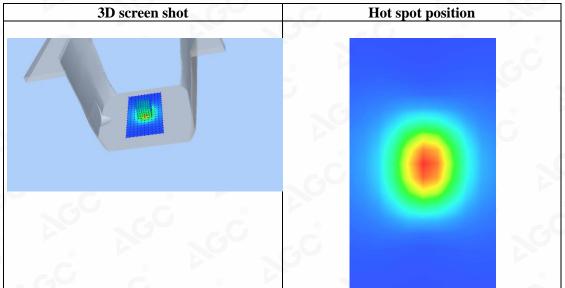
21111 2 0011	3,13,1,128
SAR 10g (W/Kg)	1.533942
SAR 1g (W/Kg)	3.421758

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# APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Oct. 24,2020

GSM 850 Mid-Touch-Right <SIM 1> DUT: Smartphone; Type: M5+

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.26; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.89$  mho/m;  $\epsilon r = 40.35$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Right Section

Ambient temperature ( $^{\circ}$ C): 21.2, Liquid temperature ( $^{\circ}$ C): 20.9

### **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

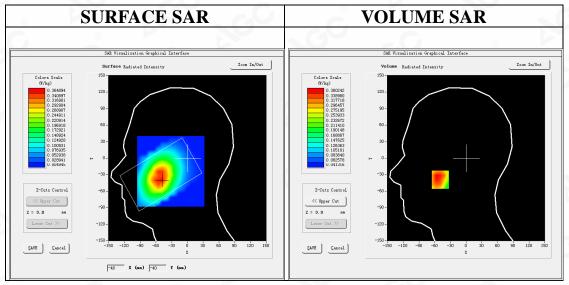
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/GSM 850 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GSM 850 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

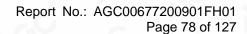
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



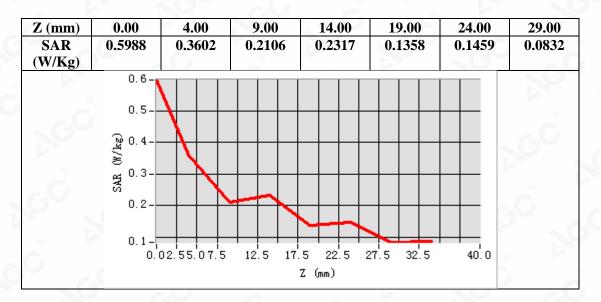
Maximum location: X=-49.00, Y=-39.00 SAR Peak: 0.43 W/kg

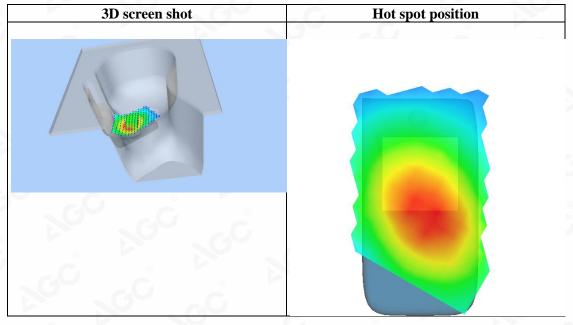
(8)	SAR 10g (W/Kg)	0.262289
	SAR 1g (W/Kg)	0.351956

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Date: Oct. 24,2020

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**Test Laboratory: AGC Lab** 

GSM 850 Mid- Body- Front ( MS) <SIM 1>

DUT: Smartphone; Type: M5+

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.26; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.89$  mho/m;  $\epsilon r = 40.35$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

### **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

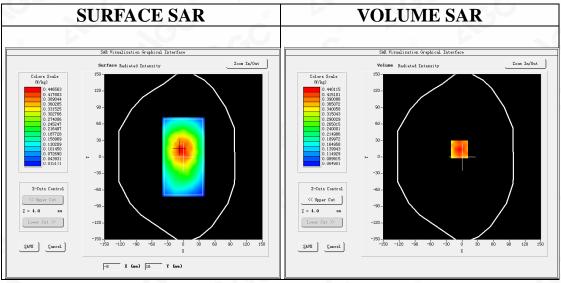
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/GSM 850 Mid-Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GSM 850 Mid-Body- Front Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Front
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

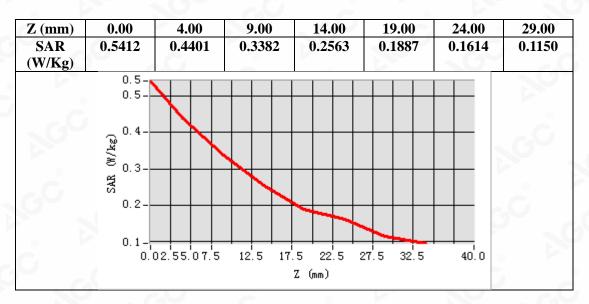


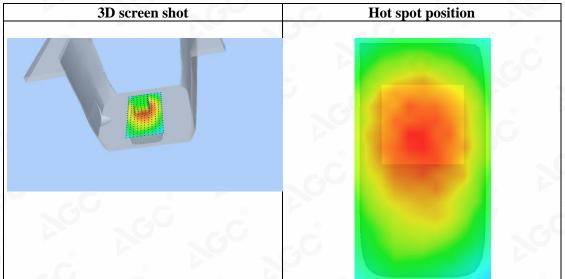
Maximum location: X=-5.00, Y=14.00 SAR Peak: 0.59 W/kg

<b>SAR 10g (W/Kg)</b>	0.304934
SAR 1g (W/Kg)	0.423614

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Test Laboratory: AGC Lab GPRS 850 Mid- Body- Back (4up) DUT: Smartphone; Type: M5+

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=5.26; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz;  $\sigma = 0.89$  mho/m;  $\epsilon r = 40.35$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

**SATIMO Configuration:** 

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

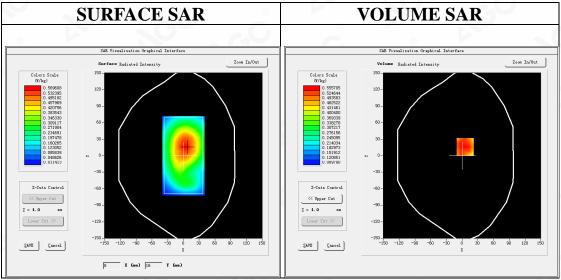
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4 02 35

Configuration/GPRS 850 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS 850 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

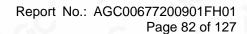
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



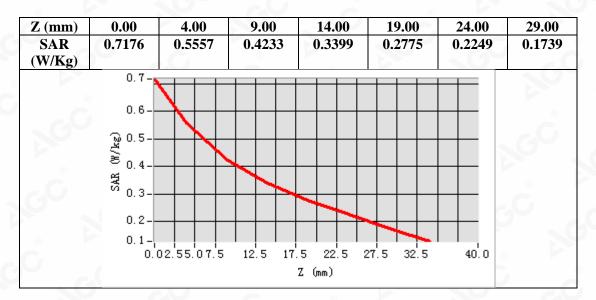
Maximum location: X=6.00, Y=16.00 SAR Peak: 0.72 W/kg

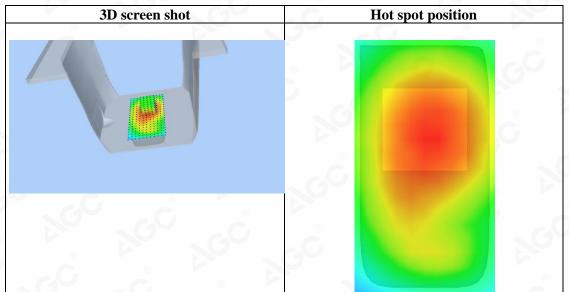
SAR 10g (W/Kg)	0.407597
SAR 1g (W/Kg)	0.545884

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Test Laboratory: AGC Lab Date: Oct. 26,2020

PCS 1900 Mid-Touch- Left <SIM 1> DUT: Smartphone; Type: M5+

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40$  mho/m;  $\epsilon = 39.02$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Left Section

Ambient temperature ( $^{\circ}$ C): 21.4, Liquid temperature ( $^{\circ}$ C): 21.2

SATIMO Configuration:

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

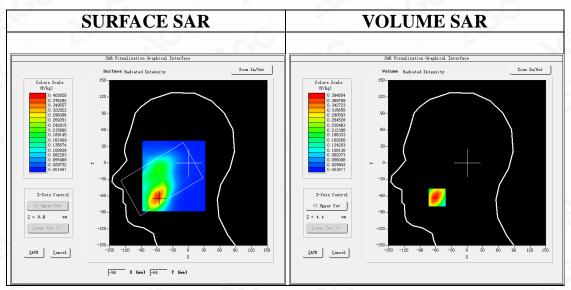
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4 02 35

Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

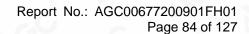
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



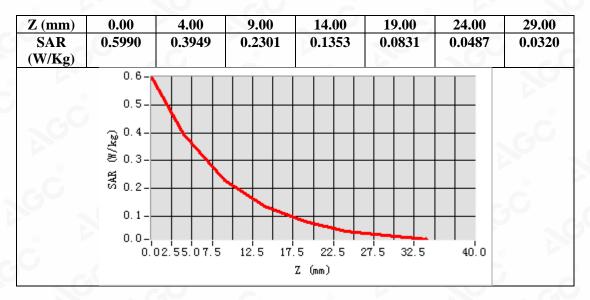
Maximum location: X=-57.00, Y=-63.00 SAR Peak: 0.65 W/kg

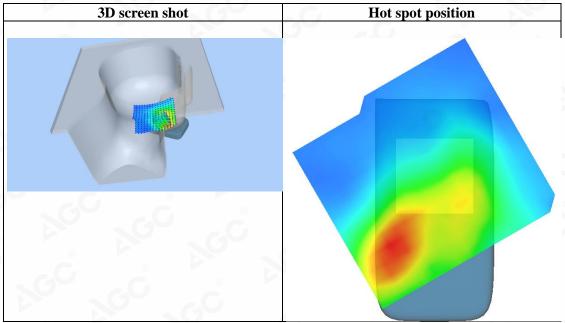
SAR 10g (W/Kg)	0.212990
SAR 1g (W/Kg)	0.391302

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Test Laboratory: AGC Lab

PCS 1900 Mid-Body-Back (MS)<SIM 1> DUT: Smartphone; Type: M5+

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40$  mho/m;  $\epsilon r = 39.02$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

#### **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

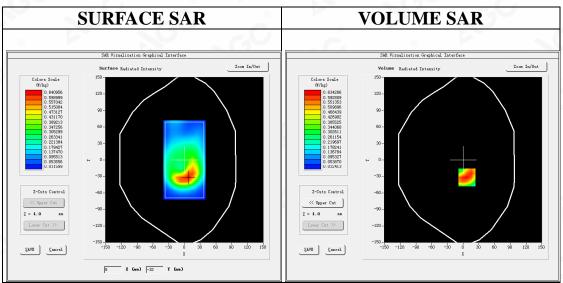
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

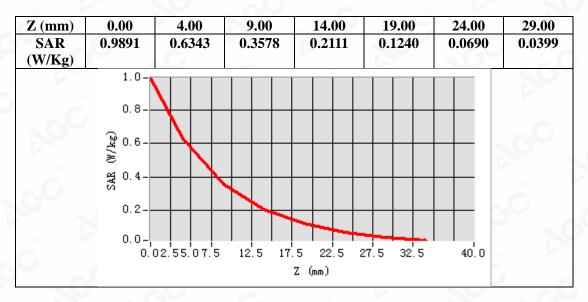


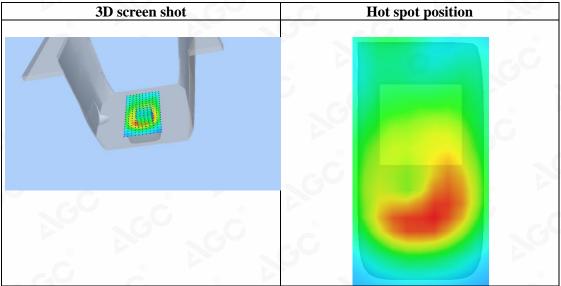
Maximum location: X=7.00, Y=-32.00 SAR Peak: 0.98 W/kg

SAR 10g (W/Kg) 0.337256 SAR 1g (W/Kg) 0.608294

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Test Laboratory: AGC Lab GPRS 1900 Mid-Body-Back (3up) DUT: Smartphone; Type: M5+

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40$  mho/m;  $\epsilon r = 39.02$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

**SATIMO Configuration:** 

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

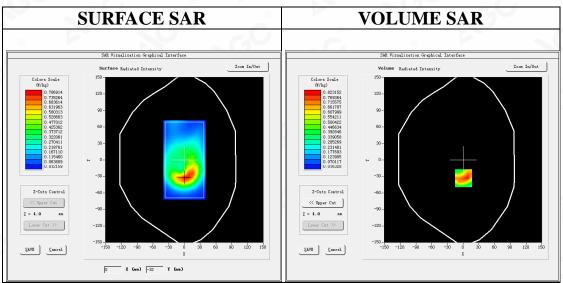
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/GPRS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

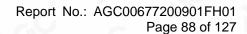
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)



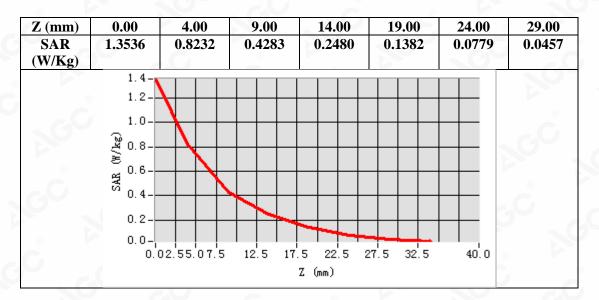
Maximum location: X=1.00, Y=-33.00 SAR Peak: 1.35 W/kg

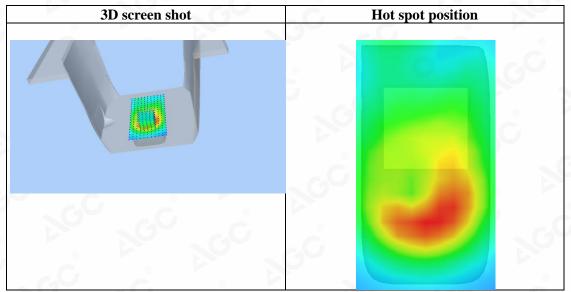
SAR 10g (W/Kg) 0.409419 SAR 1g (W/Kg) 0.752218

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**Test Laboratory: AGC Lab** 

WCDMA Band II Mid-Touch-Right (RMC)

DUT: Smartphone; Type: M5+

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 39.02$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Right Section

Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

## **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

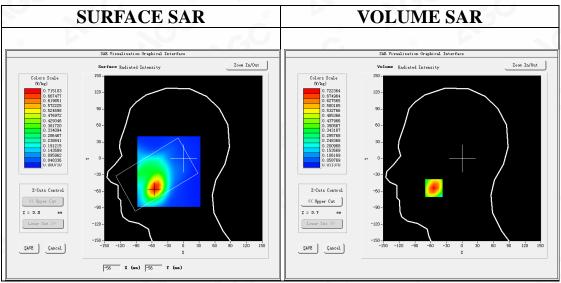
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/WCDMA band II Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/WCDMA band II Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

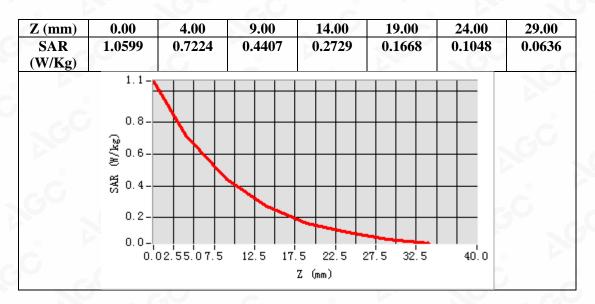
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

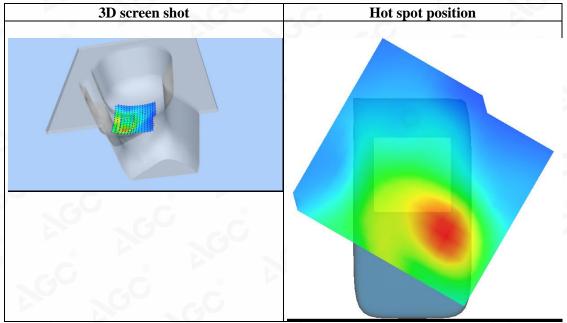


Maximum location: X=-54.00, Y=-54.00 SAR Peak: 1.06 W/kg

<b>SAR 10g (W/Kg)</b>	0.394110
SAR 1g (W/Kg)	0.685506









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Test Laboratory: AGC Lab Date: Oct. 26,2020

WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)

DUT: Smartphone; Type: M5+

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.40$  mho/m;  $\epsilon r = 39.02$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

## **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

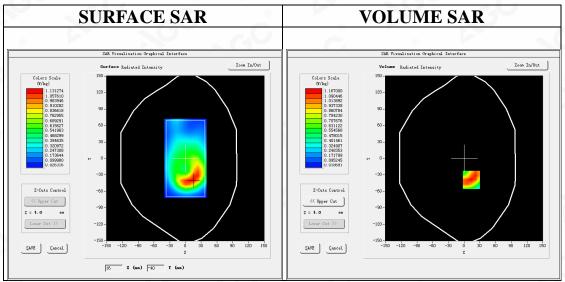
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

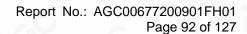
Configuration/ WCDMA band II Mid-Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ WCDMA band II Mid-Body-back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

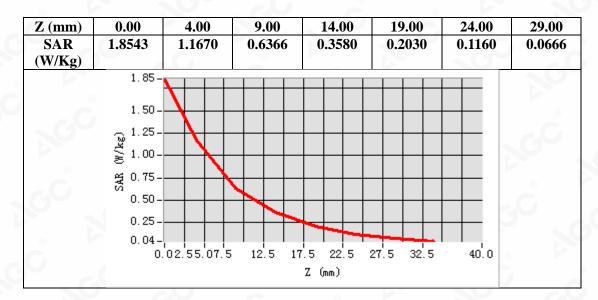


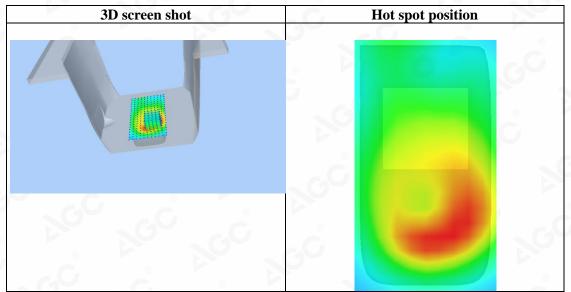
Maximum location: X=14.00, Y=-39.00 SAR Peak: 1.87 W/kg

SAR 10g (W/Kg)	0.607733
SAR 1g (W/Kg)	1.113676











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Test Laboratory: AGC Lab Date: Oct. 26,2020

WCDMA Band II High-Body-Towards Grounds (RMC 12.2kbps)

DUT: Smartphone; Type: M5+

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72; Frequency: 1907.6 MHz; Medium parameters used: f = 1900 MHz;  $\sigma = 1.36 \text{ mho/m}$ ;  $\epsilon = 40.51$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Flat Section

Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

**SATIMO Configuration:** 

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

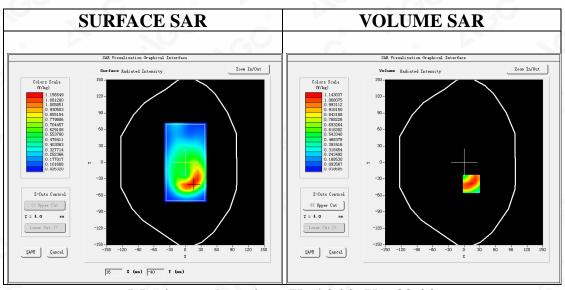
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

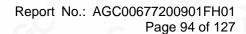
Configuration/ WCDMA band II High-Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ WCDMA band II High-Body-back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Alea Scall	Sun_sam_plan.txt, n= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	High
Signal	CDMA (Crest factor: 1.0)

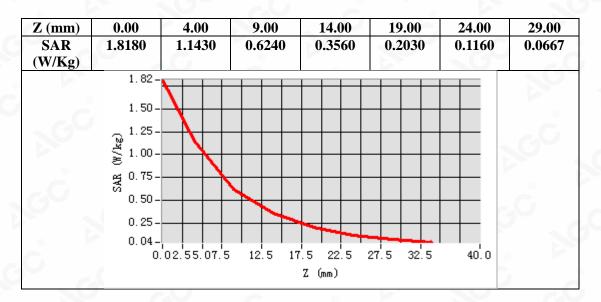


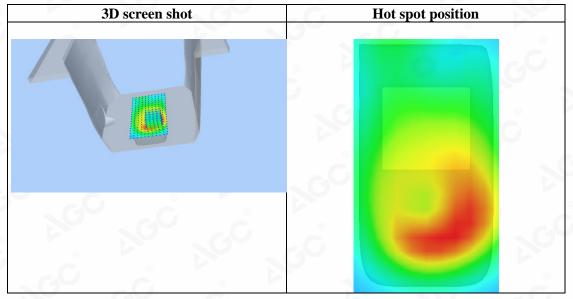
Maximum location: X=14.00, Y=-39.00 SAR Peak: 1.82 W/kg

SAR 10g (W/Kg)	0.597252
SAR 1g (W/Kg)	1.089697











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Test Laboratory: AGC Lab Date: Oct. 24,2020

WCDMA Band V Mid-Touch-Right (RMC)

DUT: Smartphone; Type: M5+

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.26;

Frequency: 836.6 MHz; Medium parameters used: f = 835MHz;  $\sigma = 0.89$  mho/m;  $\epsilon r = 40.35$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Right Section

Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

**SATIMO Configuration:** 

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

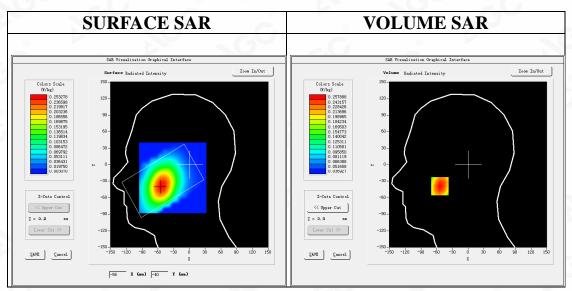
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

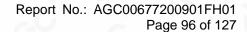
Configuration/ WCDMA Band V Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ WCDMA Band V Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

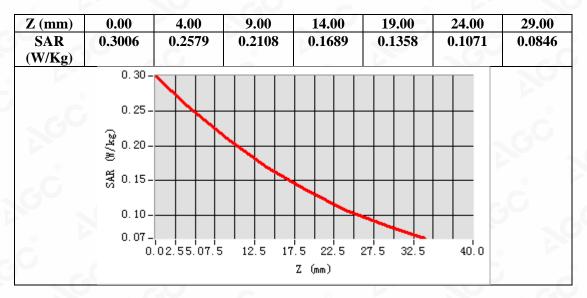


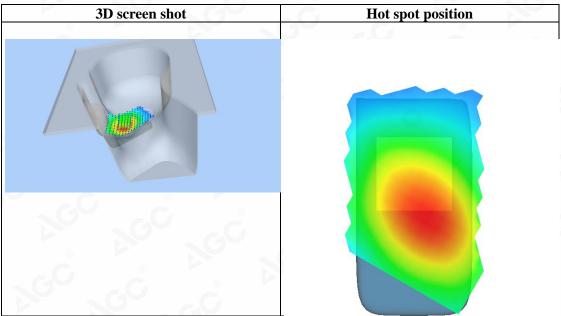
Maximum location: X=-54.00, Y=-39.00 SAR Peak: 0.30 W/kg

	8
SAR 10g (W/Kg)	0.187939
SAR 1g (W/Kg)	0.248893











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Test Laboratory: AGC Lab Date: Oct. 24,2020

WCDMA Band V Mid-Body-Towards Grounds (RMC)

DUT: Smartphone; Type: M5+

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.26; Frequency: 836.6 MHz; Medium parameters used: f = 835MHz;  $\sigma = 0.89$  mho/m;  $\epsilon r = 40.35$ ;  $\rho = 1000$  kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.2, Liquid temperature (°C): 20.9

**SATIMO Configuration:** 

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

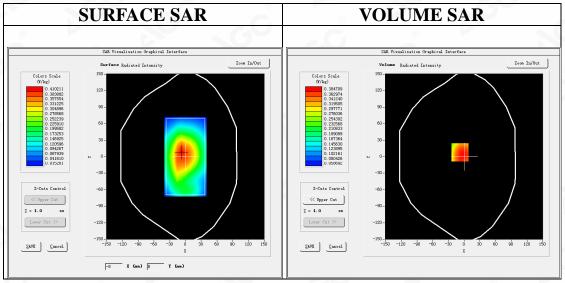
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/ WCDMA Band V Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

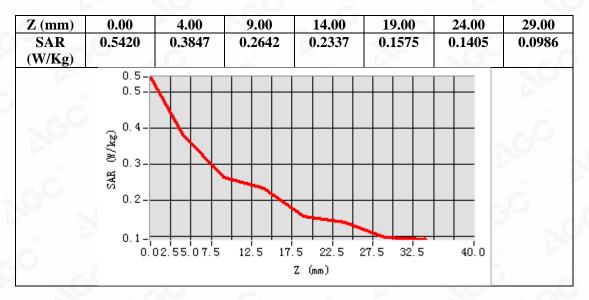
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

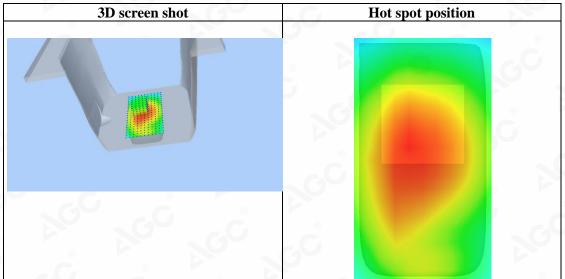


Maximum location: X=-8.00, Y=8.00 SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.279499
SAR 1g (W/Kg)	0.373328









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Test Laboratory: AGC Lab Date: Oct. 27,2020

LTE Band 4 Mid-Touch-Right (1 RB#0) DUT: Smartphone; Type: M5+

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=4.48; Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz;  $\sigma = 1.40 \text{ mho/m}$ ;  $\epsilon r = 41.08$ ;  $\rho = 1000 \text{ kg/m}^3$ ;

Phantom section: Right Section

Ambient temperature ( $^{\circ}$ C): 21.7, Liquid temperature ( $^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

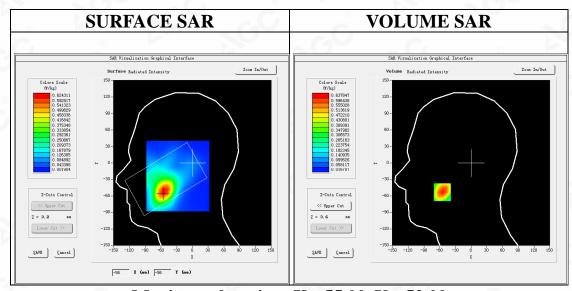
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

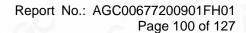
Configuration/ LTE Band 4 Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ LTE Band 4 Mid- Touch-Right /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

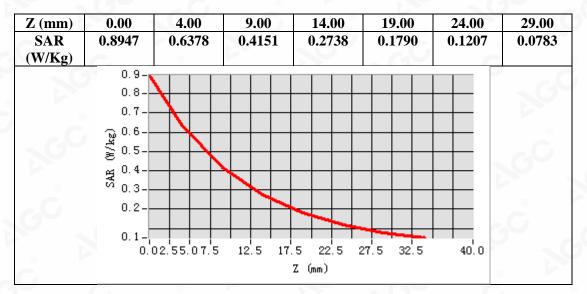


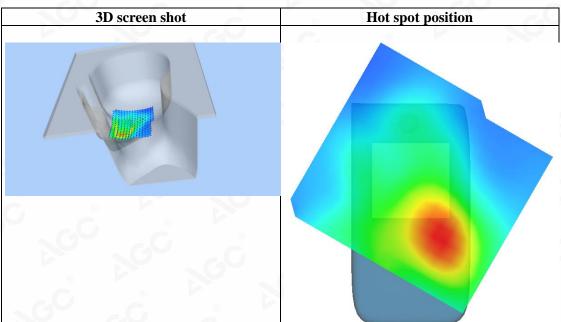
Maximum location: X=-55.00, Y=-53.00 SAR Peak: 0.90 W/kg

	21111 00011	002 00 1172-8
0	SAR 10g (W/Kg)	0.366918
	SAR 1g (W/Kg)	0.606589











Date: Oct. 27,2020

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Test Laboratory: AGC Lab

LTE Band 4 Low-Body-Front (1 RB#0) DUT: Smartphone; Type: M5+

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=4.48; Frequency:1720 MHz; Medium parameters used: f = 1800 MHz;  $\sigma = 1.42$  mho/m;  $\epsilon r = 41.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature ( $^{\circ}$ C): 21.7, Liquid temperature ( $^{\circ}$ C): 21.5

## **SATIMO Configuration:**

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

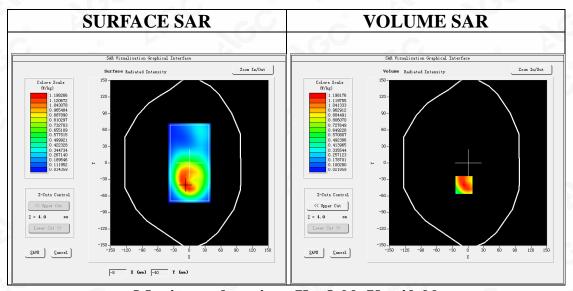
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_35

Configuration/ LTE Band 4 Low-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ LTE Band 4 Low-Body-Front/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5m;

surf_sam_plan.txt, h= 5.00 mm
5x5x7,dx=8mm dy=8mm dz=5mm
Validation plane
Body Front
LTE Band 4
Low
OFDM (Crest factor: 1.0)



Maximum location: X=-8.00, Y=-40.00 SAR Peak: 1.81 W/kg

21111 2 00010 1101 117119		
0	SAR 10g (W/Kg)	0.534264
	SAR 1g (W/Kg)	0.932713

