

Table 14-20 LTE700-FDD12 #1 Body

			LTE	700-FDD12 #1	Body			
Ambient Te	emperature:	22.5				Liquid Te	mperature:	22.3
	Davisa	SAR	Mea	sured SAR [W/kg]	Rep	orted SAR [V	V/kg]
Mode	Device orientation	measureme	23130	23095	23060	23130	23095	23060
	onentation	nt	М	М	Н	М	М	Н
	Tun	e-up	23.00	23.00	23.00	:	Scaling factor	*
	Measured F	Power [dBm]	22.82	22.85	22.82	1.04	1.04	1.04
		1g SAR		0.224			0.23	
	Front	10g SAR		0.166			0.17	
		Deviation		-0.01			-0.01	
	1722	1g SAR		0.312			0.32	
	Rear	10g SAR		0.233	.		0.24	
10MHz		Deviation		0.05			0.05	
QPSK1RB		1g SAR		0.225			0.23	
	Left edge	10g SAR		0.156			0.16	
		Deviation		0.02			0.02	
	Right edge	1g SAR		0.289			0.30	
		10g SAR		0.196			0.20	
		Deviation		0.08			0.08	
	Bottom edge	1g SAR		0.036			0.04	
		*******************************		0.02			0.02	
		Deviation		-0.01			-0.01	·
1000	Device	SAR		sured SAR [orted SAR [V	(Commission)
Mode	orientation	measureme	23130	23095	23060	23130	23095	23060
		nt	M	Н	М			
	Tune-up		22.00	22.00	22.00		Scaling factor	*
	Measured Power [dBm]		21.88	21.86	21.76	1.03	1.03	1.06
		1g SAR	0.185			0.19		
	Front						1	
	Front	10g SAR	0.139			0.14		
	Front	10g SAR Deviation	0.139 -0.04			-0.04		
	2,000 1111	10g SAR Deviation 1g SAR	0.139 -0.04 0.245			-0.04 0.25		
10MHz	Front Rear	10g SAR Deviation 1g SAR 10g SAR	0.139 -0.04 0.245 0.183			-0.04 0.25 0.19		
10MHz	2,000 1111	10g SAR Deviation 1g SAR 10g SAR Deviation	0.139 -0.04 0.245 0.183 0.1			-0.04 0.25 0.19 0.10		
QPSK50%	Rear	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR	0.139 -0.04 0.245 0.183 0.1 0.189			-0.04 0.25 0.19 0.10 0.19		
	2,000 1111	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13			-0.04 0.25 0.19 0.10 0.19 0.13		
QPSK50%	Rear	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR Deviation	0.139 -0.04 0.245 0.183 0.1 0.189 0.13			-0.04 0.25 0.19 0.10 0.19 0.13 0.05		
QPSK50%	Rear Left edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13			-0.04 0.25 0.19 0.10 0.19 0.13		
QPSK50%	Rear	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR Deviation	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11			-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11		
QPSK50%	Rear Left edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076			-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08		
QPSK50%	Rear Left edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR Deviation	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076			-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14		
QPSK50%	Rear Left edge Right edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.014			-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01		
QPSK50%	Rear Left edge Right edge Bottom edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07	sured SAR [W/kg]	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07	oorted SAR [V	Wkg]
QPSK50%	Rear Left edge Right edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR SAR Deviation SAR Measureme	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07	sured SAR [0	W/kg]	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07	oorted SAR [V	V/kg]
QPSK50% RB	Rear Left edge Right edge Bottom edge Device orientation	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR Deviation SAR Deviation SAR measureme nt	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Mea:	23095	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 -0.07 Reg	23095	23060
QPSK50% RB	Rear Left edge Right edge Bottom edge Device orientation Tun	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation SAR Deviation SAR measureme nt e-up	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Meas	23095 22.00	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07 Reg	23095 Scaling factor	23060
QPSK50% RB Mode	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR Deviation 1g SAR Deviation SAR Measureme nt e-up Power [dBm]	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Mea:	23095	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 -0.07 Reg	23095	23060
Mode 10MHz QPSK100%	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR Deviation 1g SAR tog SAR Deviation SAR measureme nt e-up Power [dBm] 1g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Meas	23095 22.00	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07 Reg	23095 Scaling factor	23060
QPSK50% RB Mode	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR 0eviation 1g SAR 10g SAR 10g SAR 10g SAR 0eviation SAR measureme nt e-up Cower [dBm] 1g SAR 10g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Meas	23095 22.00	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07 Reg	23095 Scaling factor	23060
Mode 10MHz QPSK100% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 0eviation 1g SAR 10g SAR 0eviation 1g SAR 10g SAR 10g SAR Deviation SAR measureme nt e-up Cower [dBm] 1g SAR 10g SAR Deviation	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Meas	23095 22.00 21.84	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07 Reg	23095 Scaling factor 1.04	23060
Mode 10MHz QPSK100% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation SAR measureme nt e-up Power [dBm] 1g SAR 10g SAR 10g SAR 10g SAR 10g SAR	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Meas	23095 22.00 21.84 0.306	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07 Reg	23095 Scaling factor 1.04 0.32	23060
Mode 10MHz QPSK100% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 0eviation 1g SAR 10g SAR 0eviation 1g SAR 10g SAR 10g SAR Deviation SAR measureme nt e-up Cower [dBm] 1g SAR 10g SAR Deviation	0.139 -0.04 0.245 0.183 0.1 0.189 0.13 0.05 0.11 0.076 0.14 0.008 -0.07 Meas	23095 22.00 21.84	23060	-0.04 0.25 0.19 0.10 0.19 0.13 0.05 0.11 0.08 0.14 0.01 0.01 -0.07 Reg	23095 Scaling factor 1.04	23060



Table 14-21 LTE750-FDD13 #1 Head

			LTE7	'50-FDD13 #1	Head			
Ambient Te	emperature:	22.5				Liquid Ter	mperature:	22.3
	Davisa	SAR	Meas	sured SAR [V	V/kg]	Rep	orted SAR [V	V/kg]
Mode	Device orientation	measureme	Н	M	23230	Н	M	23230
	Offeritation	nt	L	L	М	L	L	М
		e-up	1	1	24.00		Scaling factor	
	Measured F	Power [dBm]	0.00	0.00	23.31	#VALUE!	#VALUE!	1.17
		1g SAR			0.143	_		0.17
	Left Cheek	10g SAR			0.116	_		0.14
	——	Deviation			0.04			0.04
	Left Tilt	1g SAR			0.108			0.13
10MHz	Leit Till	10g SAR			0.087	-		0.10
QPSK1RB	<u> </u>	Deviation			-0.09	<u> </u>		-0.09
	Diaht Ohaala	1g SAR			0.199	<u>-</u>	.	0.23
	Right Cheek	<u> </u>			0.154	_		0.18
		Deviation			0.03	_		0.03
	Right Tilt	1g SAR			0.139	-		0.16
	Right Lift	10g SAR			0.114			0.13
		Deviation	W	sured SAR [V	0.01	Pon	orted SAB N	0.01
	Device orientation	SAR					orted SAR [V	
TRUE		measureme nt	H	M L	23230 H	H L	М	23230 H
	Tun	e-up	#VALUE!	#VALUE!	23.00		L Scaling factor	
	Measured Power [dBm]		0.00	0.00	22.42	#VALUE!	#VALUE!	1.14
	Wicasurcu i	1g SAR	0.00	0.00	0.113	#V/LUL	#V/LUL:	0.13
	Left Cheek	10g SAR			0.091	-		0.10
	Len Oncek	Deviation			0.02	 		0.02
		1g SAR			0.083			0.09
10MHz	Left Tilt	10g SAR			0.068	 		0.08
QPSK50%	2011111	Deviation			0.01			0.01
RB		1g SAR			0.157			0.18
	Right Cheek				0.121			0.14
		Deviation			-0.05			-0.05
		1g SAR			0.108			0.12
	Right Tilt	10g SAR			0.087	-		0.10
	, ugin in	Deviation			-0.02			-0.02
			Meas	sured SAR [V	C Wanted to the	Ren	orted SAR [V	
Mada	Device	SAR	Meas	Surce Crati	r/kgj	ТСР		,,rgj
Mode	orientation	measureme nt	Н	М	23230	Н	М	23230
	Tun	e-up	#VALUE!	#VALUE!	23.00		Scaling factor	•
10MHz	Measured F	Power [dBm]	1	1	22.43	#VALUE!	#VALUE!	1.14
QPSK100%		1g SAR						
RB	Left Cheek	10g SAR						
		Deviation						
10MHz		1g SAR			0.195			0.23
QPSK1RB	Worst Case	10g SAR			0.148			0.17
B2	l	Deviation			0.07			0.07



Table 14-22 LTE750-FDD13 #1 Body

			LTE7	50-FDD13#1	Body			
Ambient Te	emperature:	22.5				Liquid Ter	mperature:	22.3
		SAR	Meas	ured SAR [V	N/kg]	Rep	orted SAR [W	//kg]
Mode	Device	measureme	Н	М	23230	Н	М	23230
	orientation	nt	L	L	М	L	L	М
	Tun	e-up	1	1	24.00		Scaling factor	
		ower [dBm]	0.00	0.00	23.31	#VALUE!	#VALUE!	1.17
		1g SAR			0.243			0.28
	Front	10g SAR			0.19	1		0.22
	l	Deviation			0.08			0.08
		1g SAR			0.318			0.37
	Rear	10g SAR			0.248			0.29
40141	144000000000	Deviation			-0.01			-0.01
10MHz		1g SAR			0.196			0.23
QPSK1RB	Left edge	10g SAR			0.141			0.17
		Deviation			0.03			0.03
		1g SAR			0.302			0.35
	Right edge	10g SAR			0.229			0.27
	051 150	Deviation			0.02			0.02
		1g SAR			0.069			0.08
	Bottom edge	10g SAR			0.04			0.05
		Deviation			-0.01	·		-0.01
	90.00	SAR	Meas	ured SAR N	N/kg]	Rep	orted SAR [W	/kg]
Mode	Device	measureme	н	М	23230	Н	М	23230
Ville-Select	orientation	nt		•	Н	7.0		
	Tune-up		#VALUE!	#VALUE!	23.00		Scaling factor	•
		Power [dBm]	0.00	0.00	22.42	#VALUE!	#VALUE!	1.14
	Weasureu i	Ower [ubili]	0.00	0.00	22.42	#VALUE:	#VILUE:	1.17
		1g SAR			0.19			
	Front	1g SAR 10g SAR			0.19			0.22
	Front	10g SAR			0.149			0.22 0.17
	Front	10g SAR Deviation			0.149 -0.01			0.22 0.17 -0.01
	222 11 111	10g SAR Deviation 1g SAR			0.149 -0.01 0.247			0.22 0.17 -0.01 0.28
10MHz	Front Rear	10g SAR Deviation			0.149 -0.01			0.22 0.17 -0.01
10MHz QPSK50%	222 11 111	10g SAR Deviation 1g SAR 10g SAR Deviation			0.149 -0.01 0.247 0.205 0.01			0.22 0.17 -0.01 0.28 0.23
	Rear	10g SAR Deviation 1g SAR 10g SAR			0.149 -0.01 0.247 0.205			0.22 0.17 -0.01 0.28 0.23 0.01
QPSK50%	222 11 111	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR			0.149 -0.01 0.247 0.205 0.01 0.152			0.22 0.17 -0.01 0.28 0.23 0.01 0.17
QPSK50%	Rear	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR			0.149 -0.01 0.247 0.205 0.01 0.152 0.109			0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12
QPSK50%	Rear	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation			0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03			0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20
QPSK50%	Rear Left edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation 1g SAR			0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224			0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26
QPSK50%	Rear Left edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR			0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054			0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20
QPSK50%	Rear Left edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation			0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02			0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02
QPSK50%	Rear Left edge Right edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR			0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07			0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07
QPSK50%	Rear Left edge Right edge Bottom edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR 10g SAR	Meas	ured SAR [V	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Rep	orted SAR [W	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07
QPSK50%	Rear Left edge Right edge	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR Deviation	Meas H	sured SAR [V	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Rep	orted SAR [W	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07
QPSK50% RB	Rear Left edge Right edge Bottom edge Device orientation	10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR 10g SAR 10g SAR Deviation 1g SAR Deviation 1g SAR SAR Deviation SAR Measureme			0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	н	7.1	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07
QPSK50% RB	Rear Left edge Right edge Bottom edge Device orientation Tun	10g SAR Deviation 1g SAR Deviation 1g SAR The same of the same	Н	М	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	н	М	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07
QPSK50% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR Deviation 1g SAR Deviation 1g SAR Deviation 1g SAR tog SAR Deviation SAR measureme nt e-up	H #VALUE!	M #VALUE!	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Н	M Scaling factor	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07 [/kg]
QPSK50% RB Mode	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR Deviation 1g SAR Deviation 1g SAR 0eviation 1g SAR 10g SAR Deviation SAR measureme nt e-up Power [dBm] 1g SAR	H #VALUE!	M #VALUE!	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Н	M Scaling factor	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07 [/kg]
Mode 10MHz QPSK100%	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR Deviation 1g SAR The same of the same	H #VALUE!	M #VALUE!	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Н	M Scaling factor	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07 [/kg]
Mode 10MHz QPSK100% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation SAR measureme nt e-up Power [dBm] 1g SAR 10g SAR Deviation	H #VALUE!	M #VALUE!	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Н	M Scaling factor	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07 [/kg]
Mode 10MHz QPSK100% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F Front Worst case	10g SAR Deviation 1g SAR 10g SAR Deviation SAR measureme nt e-up Power [dBm] 1g SAR 10g SAR Deviation 1g SAR	H #VALUE!	M #VALUE!	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07	Н	M Scaling factor	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07 //kgl 23230 1.14
Mode 10MHz QPSK100% RB	Rear Left edge Right edge Bottom edge Device orientation Tun Measured F	10g SAR Deviation 1g SAR 10g SAR Deviation SAR measureme nt e-up Power [dBm] 1g SAR 10g SAR Deviation	H #VALUE!	M #VALUE!	0.149 -0.01 0.247 0.205 0.01 0.152 0.109 0.03 0.224 0.177 0.02 0.054 0.032 -0.07 N/kg] 23230 23.00 22.43	Н	M Scaling factor	0.22 0.17 -0.01 0.28 0.23 0.01 0.17 0.12 0.03 0.26 0.20 0.02 0.06 0.04 -0.07 //kg] 23230



14.3 Full SAR

Test Band	Channel	Frequency	Tune-Up	Measured Power	Test Position	Measured 10g SAR	Measured 1g SAR	Reported 10g SAR	Reported 1g SAR	Power Drift	Figure
GSM850	128	824.2 MHz	33.5	32. 52	Left Cheek	0.126	0.165	0.16	0.21	-0.04	<u>Fig A. 1</u>
GSM850	251	848.8 MHz	29	28.97	Rear	0.199	0.36	0.20	0.36	-0.07	<u>Fig A. 2</u>
PCS1900	661	1880 MHz	30.5	29.41	Left Cheek	0.074	0.122	0.10	0.16	-0.09	Fig A. 3
PCS1900	661	1880 MHz	26.5	25.85	Rear	0.297	0.503	0.34	0.58	0.05	Fig A. 4
WCDMA1900-BII	9262	1852.4 MHz	24	23.67	Left Cheek	0.175	0.283	0.19	0.31	0.05	Fig A. 5
WCDMA1900-BII	9262	1852.4 MHz	24	23.67	Rear	0.391	0.625	0.42	0.67	0.11	<u>Fig A. 6</u>
WCDMA1700-BIV	1513	1752.6 MHz	24	23.72	Left Cheek	0.243	0.382	0.26	0.41	-0.09	Fig A.7
WCDMA1700-BIV	1513	1752.6 MHz	24	23.72	Rear	0.546	0.847	0.58	0.90	-0.09	Fig A.8
WCDMA850-BV	4233	846.6 MHz	24	23.78	Right Cheek	0.253	0.339	0.27	0.36	0.19	Fig A. 9
WCDMA850-BV	4233	846.6 MHz	24	23.78	Rear	0.233	0.415	0.25	0.44	-0.04	Fig A. 10
LTE1900-FDD2	18700	1860 MHz	24.5	24.03	Left Cheek	0.194	0.314	0.22	0.35	0.01	Fig A. 11
LTE1900-FDD2	18700	1860 MHz	24.5	24.03	Rear	0.346	0.546	0.39	0.61	-0.05	Fig A. 12
LTE1700-FDD4	20300	1745 MHz	24	23.48	Left Cheek	0.227	0.349	0.26	0.39	0.06	Fig A. 13
LTE1700-FDD4	20300	1745 MHz	24	23.48	Rear	0.346	0.546	0.39	0.61	-0.05	Fig A. 14
LTE850-FDD5	20450	829 MHz	23	23.00	Right Cheek	0.157	0.207	0.16	0.21	0.16	Fig A. 15
LTE850-FDD5	20450	829 MHz	23	23.00	Rear	0.144	0.254	0.14	0.25	-0.02	Fig A. 16
LTE2500-FDD7	20850	2510 MHz	24	23.73	Left Cheek	0.084	0.157	0.09	0.17	0.02	Fig A. 17
LTE2500-FDD7	20850	2510 MHz	24	23.73	Rear	0.282	0.576	0.30	0.61	-0.05	Fig A. 18
LTE700-FDD12	23095	707.5 MHz	23	22.85	Right Cheek	0.201	0.254	0.21	0.26	0.17	Fig A. 19
LTE700-FDD12	23095	707.5 MHz	23	22.85	Rear	0.233	0.312	0.24	0.32	0.05	Fig A. 20
LTE750-FDD13	23230	782 MHz	24	23.31	Right Cheek	0.154	0.199	0.18	0.23	0.03	Fig A. 21
LTE750-FDD13	23230	782 MHz	24	23.31	Rear	0.248	0.318	0.29	0.37	-0.01	Fig A. 22



1Mbps

802.11b 1Mbps

B₂

Deviation

1g Fast SAR

10g SAR

Deviation

1g Fast SAR

10g SAR

Deviation 1g Fast SAR

10g SAR

Deviation

Right Cheek

Right Tilt

Worst Case

14.4 WLAN Evaluation

According to the KDB248227 D01, SAR is measured for 802.11b DSSS using the <u>initial test position</u> procedure.

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is \leq 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is \leq 1.2 W/kg or all required channels are tested.

Note3: According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

WLAN2450 #1 Liquid Temperature: Ambient Temperature: 22.5 22.3 Measured SAR [W/kg] Reported SAR [W/kg] Device SAR Rate 11 6 orientation measurement 11 6 1 2462 MHz 2437 MHz 2412 MHz 15.5 Tune up 15.5 15.5 Scaling factor Slot Average Power [dBm] 15.11 15.38 15.01 1.09 1.12 1g Fast SAR 0.316 0.32 Left Cheek 10g SAR 0.142 0.15 0.16 0.16 Deviation 1g Fast SAR 0.162 0.17 802.11b Left Tilt 10g SAR 0.079 0.08

-0.05

0.113

0.06

0.06

0.11

0.056

0.09

0.293

0.137

-0.03

Table 14-23 WLAN2450 #1

-0.05

0.12

0.06

0.11

0.06

0.09

0.30

0.14

-0.03



Table 14-24 WLAN2450 #1 Head Full SAR

			WLAN2	450 #1 Head F	ull SAR			
Ambient T	emperature:	22.5				Liquid Ter	mperature:	22.3
	Davies	SAR	Measured SAR [W/kg]			Reported SAR [W/kg]		
Rate	Device orientation	measurement	11	6	1	11	6	
	Offeritation	measurement	2462 MHz	2437 MHz	2412 MHz		6	
	Tur	ne up	15.5	15.5	15.5		Scaling factor	•
	Slot Average	Slot Average Power [dBm]		15.38	15.01	1.09	1.03	1.12
	Left Cheek	1g Full SAR		0.316			0.32	
		10g SAR		0.142			0.15	
		Deviation		0.16			0.16	
		1g Full SAR						
802.11b	Left Tilt	10g SAR						
1Mbps		Deviation						
		1g Full SAR						
	Right Cheek	10g SAR						
		Deviation						
		1g Full SAR						
	Right Tilt	10g SAR						
	, again the	Deviation						

Table 14-25 WLAN2450 #1 Body Fast SAR

		14510 17			ay i ast ont	•		
			WLAN2	450 #1 Body Fa	st SAR			
Ambient T	emperature:	22.5				Liquid Ter	mperature:	22.3
	Device	SAR	Measured SAR [W/kg]			Rep	orted SAR [W	/kg]
Rate	orientation	measurement	11	6	1	44		
	onentation	measurement	2462 MHz	2437 MHz	2412 MHz	11	6	1
	Tur	ne up	15.5	15.5	15.5		Scaling factor	
	Slot Average	e Power [dBm]	15.11	15.38	15.01	1.09	1.03	1.12
		1g Fast SAR		0.072			0.07	
	Front	10g SAR		0.038			0.04	
		Deviation		0.11			0.11	
	Rear	1g Fast SAR		0.083			0.09	
802.11b		10g SAR		0.044			0.05	
1Mbps		Deviation		0.15			0.15	
		1g Fast SAR		0.071			0.07	
	Top edge	10g SAR		0.033			0.03	
		Deviation		0.02			0.02	
		1g Fast SAR		0.033			0.03	
	Right edge	10g SAR		0.018			0.02	
		Deviation		0.13			0.13	
802.11b	14/2224 222	1g Fast SAR		0.081			0.08	
1Mbps	Worst case	10g SAR		0.039			0.04	
B1	check	Deviation		0.03			0.03	



Table 14-26 WLAN2450 #1 Body Fast SAR

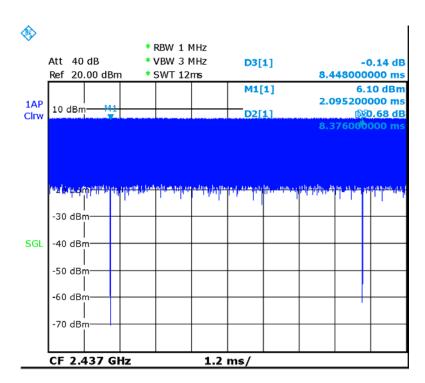
•	W LAN 2450 #1 Body FullS AR										
AmbientT	emperature:	22.5				Liquid Ter	n perature:	22.3			
	Device	SAR	M ea	sured SAR [W	/kg]	Rep	orted SAR [W	/kg]			
Rate	orientation	m easurem ent	11	6	1	11	6	1			
		m casarem en e	2462 MHz	2437 MHz	2412 M H z						
	Tur	ne up	15.5 15.5 15.5			Scaling factor	*				
	SlotAverage Power [dBm]		15.11	15.38	15.01	1.09	1.03	1.12			
		1g FullSAR									
	Front	10g S A R									
		Deviation									
	Rear	1g FullSAR		0.084			0.09				
		10g S A R		0.045			0.05				
		Deviation		0.15			0.15				
		1g FullSAR									
802.11b	Leftedge	10g SAR									
1M bps		Deviation									
		1g FullSAR									
	Rightedge	10g S A R									
		Deviation									
		1g FullSAR									
	Bottom edge	10g SAR									
		Deviation									
		1g FullSAR									
	Top edge	10g SAR									
		Deviation									

SAR is not required for OFDM because the 802.11b adjusted SAR $\,\leqslant\,\,$ 1.2 W/kg.

	According to the KDB 248227 D 01, The reported SAR m ust be scaled to 100% transm is son duty factor to determ ine compliance at the maximum tune-up to learnce limit. The scaled reported SAR is presented as below								
Frequ	iency	TestPosition	Actualduty	maximum duty	•	Scaled reported	Figure		
МНz	Ch.		factor	factor	SAR (lg) (W /kg)	SAR (1g) (W /kg)	9221		
2437 6 LeftCheek 99.15% 100% 0.32 0.33 Fig A.23									

	According to the KDB248227 D01, The reported SAR m ustbe scaled to 100% transm ission duty factor to determ ine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below								
Frequ	iency	TestPosition	,	maximum duty	Reported SAR (1g) (W /kg)	Scaled reported SAR (1g) (W /kg)	Figure		
МНz	MHz Ch. factor factor SAR(lg)(W/kg) SAR(lg)(W/kg)								
2437	2437 6 Rear 99.15% 100% 0.09 0.09 Fig A.24								





Picture 14.1 Duty factor plot



15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Mode	СН	Freq	Test Poisition	Original SAR (W/kg)	First Repeated SAR(W/kg)	The Ratio
WCDMA1700-BIV	1513	1752.6 MHz	Rear	0.847	0.831	1.02



16 Measurement Uncertainty

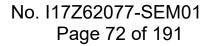
16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

10.1	Measurement on	CCIta	inty ioi itoi	mai OAIT i	COLO	,00011	1112	, OI 12 <i>j</i>		
No.	Error Description	Type	Uncertainty	Probably	Div.	(Ci)	(Ci)	Std.	Std.	Degree
			value	Distribution		1g	10g	Unc.	Unc.	of
								(1g)	(10g)	freedo
										m
Meas	surement system				_					
1	Probe calibration	В	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	В	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	В	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	В	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	В	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	В	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	В	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	В	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	В	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	&
12	Probe positioning with respect to phantom shell	В	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
			Test s	sample related	l				•	
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	В	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
			Phant	tom and set-uj	p					
17	Phantom uncertainty	В	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	В	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	8
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	В	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521



(Combined standard uncertainty	u' _c =	$=\sqrt{\sum_{i=1}^{21}c_i^2u_i^2}$					9.55	9.43	257
Expa	anded uncertainty									
(con	fidence interval of	i	$u_e = 2u_c$					19.1	18.9	
95 %	(o)									
16.2	Measurement U	ncert	ainty for No	ormal SAR	Tests	(3~6	GHz)			
No.	Error Description	Type	Uncertainty	Probably	Div.	(Ci)	(Ci)	Std.	Std.	Degree
			value	Distribution		1g	10g	Unc.	Unc.	of
								(1g)	(10g)	freedo
										m
Mea	surement system									
1	Probe calibration	В	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	В	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	В	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	В	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	В	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞

IVICA	vicasurement system											
1	Probe calibration	В	6.55	N	1	1	1	6.55	6.55	8		
2	Isotropy	В	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	8		
3	Boundary effect	В	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	8		
4	Linearity	В	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞		
5	Detection limit	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	8		
6	Readout electronics	В	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	8		
7	Response time	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	8		
8	Integration time	В	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	8		
9	RF ambient conditions-noise	В	0	R	$\sqrt{3}$	1	1	0	0	8		
10	RF ambient conditions-reflection	В	0	R	$\sqrt{3}$	1	1	0	0	8		
11	Probe positioned mech. restrictions	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	8		
12	Probe positioning with respect to phantom shell	В	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	8		
13	Post-processing	В	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞		
			Test s	sample related	l							
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71		
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5		
16	Drift of output power	В	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	8		
			Phant	tom and set-u	р							
17	Phantom uncertainty	В	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	8		
18	Liquid conductivity (target)	В	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	8		
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43		
20	Liquid permittivity	В	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	8		





	(target)									
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c' =$	$\sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					10.7	10.6	257
_	inded uncertainty fidence interval of	ī	$u_e = 2u_c$					21.4	21.1	

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)													
No.	Error Description	Type	Uncertainty	Probably	Div.	(Ci)	(Ci)	Std.	Std.	Degree			
			value	Distribution		1g	10g	Unc.	Unc.	of			
								(1g)	(10g)	freedo			
										m			
Meas	Measurement system												
1	Probe calibration	В	6.0	N	1	1	1	6.0	6.0	∞			
2	Isotropy	В	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞			
3	Boundary effect	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞			
4	Linearity	В	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞			
5	Detection limit	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞			
6	Readout electronics	В	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞			
7	Response time	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞			
8	Integration time	В	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞			
9	RF ambient conditions-noise	В	0	R	$\sqrt{3}$	1	1	0	0	∞			
10	RF ambient conditions-reflection	В	0	R	$\sqrt{3}$	1	1	0	0	&			
11	Probe positioned mech. Restrictions	В	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞			
12	Probe positioning with respect to phantom shell	В	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	8			
13	Post-processing	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞			
14	Fast SAR z- Approximation	В	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	8			
			Test s	sample related	l								
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71			
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5			
17	Drift of output power	В	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞			
			Phant	tom and set-u	p								
18	Phantom uncertainty	В	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞			



19	Liquid conductivity (target)	В	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	В	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
(Combined standard uncertainty		$\sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$					10.4	10.3	257
(cont	Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$					20.8	20.6	

16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty	Probably	Div.	(Ci)	(Ci)	Std.	Std.	Degree				
			value	Distribution		1g	10g	Unc.	Unc.	of				
								(1g)	(10g)	freedo				
										m				
Mea	Measurement system													
1	Probe calibration	В	6.55	N	1	1	1	6.55	6.55	∞				
2	Isotropy	В	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞				
3	Boundary effect	В	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞				
4	Linearity	В	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞				
5	Detection limit	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞				
6	Readout electronics	В	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞				
7	Response time	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞				
8	Integration time	В	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞				
9	RF ambient conditions-noise	В	0	R	$\sqrt{3}$	1	1	0	0	∞				
10	RF ambient conditions-reflection	В	0	R	$\sqrt{3}$	1	1	0	0	∞				
11	Probe positioned mech. Restrictions	В	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞				
12	Probe positioning with respect to phantom shell	В	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞				
13	Post-processing	В	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞				
14	Fast SAR z- Approximation	В	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞				
			Test s	sample related	1									
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71				

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16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	В	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
			Phant	tom and set-uj	p					
18	Phantom uncertainty	В	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	В	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	В	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty u_c :		u' _c =	$\sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$					13.5	13.4	257
Expanded uncertainty (confidence interval of 95 %)		ī	$u_e = 2u_c$					27.0	26.8	



17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Туре	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 13, 2017	One year
02	Power meter	NRVD	102196	March 02 2017	One year
03	Power sensor	NRV-Z5	100596	March 02,2017	One year
04	Signal Generator	E4438C	MY49071430	January 13,2017	One Year
05	Amplifier	60S1G4	0331848	No Calibration R	equested
06	BTS	E5515C	MY50263375	January 16, 2017	One year
07	BTS	CMW500	149646	October 31, 2017	One year
08	E-field Probe	SPEAG EX3DV4	3846	January 13,2017	One year
09	DAE	SPEAG DAE4	1331	January19, 2017	One year
10	Dipole Validation Kit	SPEAG D750V3	1017	July 19, 2017	One year
11	Dipole Validation Kit	SPEAG D835V2	4d069	July 19, 2017	One year
12	Dipole Validation Kit	SPEAG D1750V2	1003	July 21, 2017	One year
13	Dipole Validation Kit	SPEAG D1900V2	5d101	July 26, 2017	One year
14	Dipole Validation Kit	SPEAG D2450V2	853	July 21, 2017	One year
15	Dipole Validation Kit	SPEAG D2600V2	1012	July 21, 2017	One year

^{***}END OF REPORT BODY***



ANNEX A Graph Results

GSM850_CH128 Left Cheek

Date: 12/26/2017

Electronics: DAE4 Sn1331 Medium: Head 835 MHz

Medium parameters used: f = 824.2 MHz; $\sigma = 0.882 \text{ mho/m}$; $\epsilon r = 42.31$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C Communication System: GSM850 824.2 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN3846 ConvF(9.33,9.33,9.33)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.192 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.229 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.182 W/kg

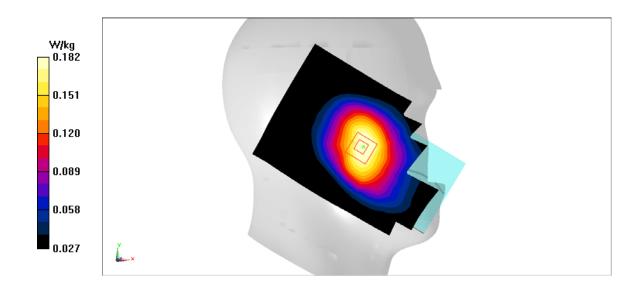


Fig A.1



GSM850 CH251 Rear

Date: 12/26/2017

Electronics: DAE4 Sn1331 Medium: Head 835 MHz

Medium parameters used: f = 848.8 MHz; $\sigma = 0.967 \text{ mho/m}$; $\epsilon r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C Communication System: GSM850 848.8 MHz Duty Cycle: 1:2

Probe: EX3DV4 – SN3846 ConvF(9.52,9.52,9.52)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.455 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.32 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.637 W/kg

SAR(1 g) = 0.36 W/kg; SAR(10 g) = 0.199 W/kg

Maximum value of SAR (measured) = 0.44 W/kg

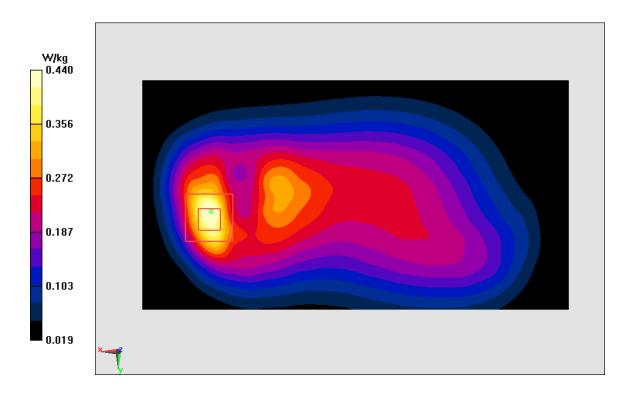


Fig A.2



PCS1900 CH661 Left Cheek

Date: 12/28/2017

Electronics: DAE4 Sn1331 Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.379 \text{ mho/m}$; $\epsilon r = 39.82$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C Communication System: PCS1900 1880 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN3846 ConvF(7.89,7.89,7.89)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.147 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.101 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.145 W/kg

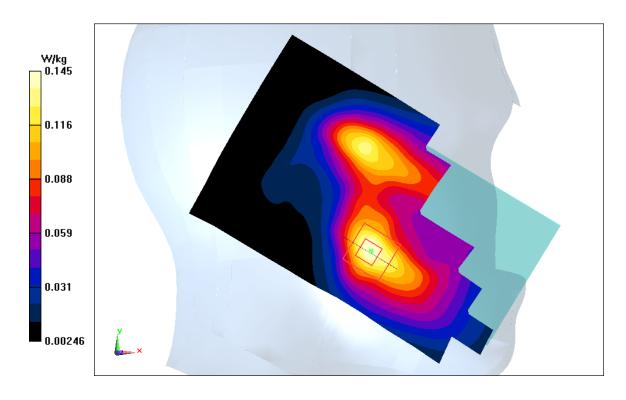


Fig A.3



PCS1900 CH661 Rear

Date: 12/28/2017

Electronics: DAE4 Sn1331 Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; $\sigma = 1.473 \text{ mho/m}$; $\epsilon r = 52.55$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C Communication System: PCS1900 1880 MHz Duty Cycle: 1:2

Probe: EX3DV4 – SN3846 ConvF(7.57,7.57,7.57)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mmMaximum value of SAR (interpolated) = 0.619 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.11 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 0.612 W/kg

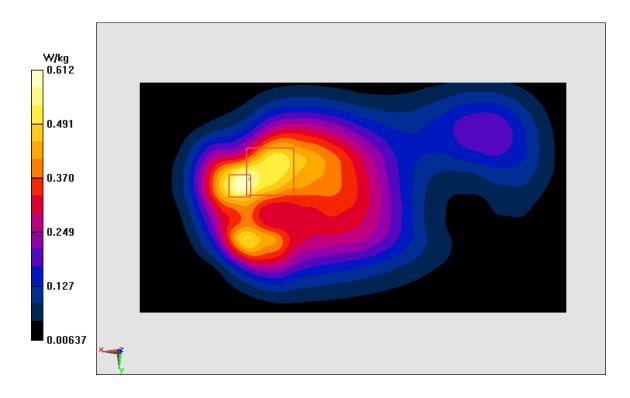


Fig A.4



WCDMA1900-BII_CH9262 Left Cheek

Date: 12/28/2017

Electronics: DAE4 Sn1331 Medium: Head 1900 MHz

Medium parameters used: f = 1852.4 MHz; $\sigma = 1.352$ mho/m; $\epsilon r = 39.86$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN3846 ConvF(7.89,7.89,7.89)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.347 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.647 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.329 W/kg

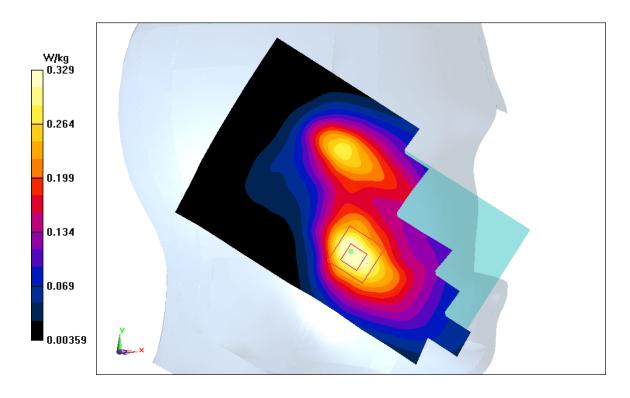


Fig A.5