

14.1 SAR results

Table 14-1 GSM850 #1 Head

			GS	M850 #1 Hea	d			
Ambient T	emperature:		22.	5		Liquid Ter	mperature:	22.3
	Device	SAR		sured SAR [orted SAR [\	
Mode	orientation	measurement	CH251	CH190	CH128	CH251	CH190	CH128
	Officiation	measurement	848.8 MHz	836.6 MHz	824.2 MHz	848.8 MHz	836.6 MHz	824.2 MHz
	Tur	ne-up	32.50	32.50	32.50		Scaling factor	r*
	Slot Average	e Power [dBm]	31.54	31.58	31.53	1.25	1.23	1.25
		1g SAR		0.127			0.16	
	Left Cheek	10g SAR		0.102			0.13	
		Deviation		0.05			0.05	
		1g SAR		0.087			0.11	
GSM	Left Tilt	10g SAR		0.07			0.09	
GSIVI		Deviation		-0.01			-0.01	
		1g SAR	0.168	0.159	0.145	0.21	0.20	0.18
	Right Cheek	10g SAR	0.13	0.12	0.111	0.16	0.15	0.14
		Deviation	0.2	0.06	0.03	0.20	0.06	0.03
		1g SAR		0.095			0.12	
	Right Tilt	10g SAR		0.077			0.10	
		Deviation		-0.08			-0.08	

Table 14-2 GSM850 #1 Body

			GS	M850 #1 Bod	у				
Ambient T	emperature:	22.5				Liquid Te	Scaling factor Scaling factor Scaling factor Page 26 1.19 1.22		
	Device	SAR	Measured SAR [W/kg]			Reported SAR [W/kg]			
Mode		measurement	CH251	CH190	CH128	CH251	CH190	CH128	
	Tune-up		28.50	28.50	28.50				
	Slot Average	e Power [dBm]	27.49	27.73	27.63	1.26	1.19	1.22	
	Front	1g SAR		0.292			0.35		
	Front	10g SAR		0.198			0.24		
		Deviation		0.09			0.09		
		1g SAR	0.386	0.325	0.331	0.49	0.39	0.40	
	Rear	10g SAR	0.215	0.173	0.18	0.27	0.21	0.22	
GPRS 4		Deviation	-0.05	0.03	-0.08	-0.05	0.03	-0.08	
Txslots		1g SAR		0.195			0.23		
TABIOLO	Left edge	10g SAR		0.124			0.15		
	1101110000	Deviation		-0.1			-0.10	0.22	
		1g SAR		0.269			0.32	0.22	
	Right edge	10g SAR		0.167			0.20		
		Deviation		0.05			0.05		
		1g SAR		0.154			0.18		
	Bottom edge	10g SAR		0.079			0.09		
		Deviation		0.04			0.04		
	Tune-up		28.50	28.50	28.50		Scaling factor*		
EGPRS GMSK 4	Slot Average	e Power [dBm]	27.67	27.68	27.59	1.21	1.21	1.23	
		1g SAR	0.378			0.46			
Txslots	Rear	10g SAR	0.187			0.23			
	500000000	Deviation	-0.07			-0.07			



Table 14-3 PCS1900 #1 Head

			PC	S1900 #1 Hea	d				
Ambient T	emperature:		22	.5		Liquid Te	mperature:	22.3	
Mode	Device orientation	SAR measurement	Mea: CH810 1909.8	sured SAR [V CH661 1880 MHz	V/kg] CH512 1850.2	Rep CH810 1909,8	V/kg] CH512		
	Tur	ne-up	30.30	30.30	30.30		1 1880 MHz 1 Scaling factor		
	Slot Average	e Power [dBm]	29.44	29.51	29.77	1.22	1.20 1.13		
		1g SAR		0.173			0.21		
	Left Cheek	10g SAR		0.107			0.13		
		Deviation		0.07			0.07		
		1g SAR		0.096			0.12		
GSM	Left Tilt	10g SAR		0.056			0.07		
GSIVI		Deviation		-0.04			-0.04		
	619	1g SAR	0.265	0.252	0.204	0.32	0.30	0.23	
	Right Cheek	10g SAR	0.153	0.147	0.12	0.19	0.18	0.14	
		Deviation	-0.11	-0.01	0.08	-0.11	-0.01	1.13 0.23	
		1g SAR		0.034			0.04		
	Right Tilt	10g SAR		0.018			0.02		
	11 11 11	Deviation		0.03			0.03		

Table 14-4 PCS1900 #1 Body

			PC	S1900 #1 Bod	у			
Ambient T	emperature:	22.5				Liquid Te	mperature:	22.3
	Device	SAR	Measured SAR [W/kg]			Reported SAR [W/kg]		
Mode		measurement	CH810	CH661	CH512	CH810	CH661	CH512
	0110111011011		1909.8	1880 MHz	1850.2	1909.8	1880 MHz	1850.2
			25.00	25.00	25.00		Scaling factor	
	Slot Average	e Power [dBm]	24.07	24.10	24.12	1.24	1.23	1.22
	Front Rear	1g SAR		0.297			0.37	
	Front	10g SAR		0.171			0.21	
		Deviation		0.05			0.05	
		1g SAR		0.305			0.38	
	Rear	10g SAR		0.163			0.20	
GPRS 4		Deviation		0.01			0.01	
Txslots		1g SAR		0.117			0.14	
IASIOIS	Left edge	10g SAR		0.065			0.08	
	10000000	Deviation		-0.06			-0.06	
		1g SAR		0.091			0.11	
	Right edge	10g SAR		0.054			0.07	
		Deviation		-0.03			-0.03	
		1g SAR	0.424	0.397	0.378	0.53	0.49	0.46
	Bottom edge	10g SAR	0.211	0.191	0.185	0.26	0.23	0.23
	1000	Deviation	-0.03	0.09	0.01	-0.03	0.09	0.01
	Tune-up		25.00	25.00	25.00	2	Scaling factor	•
EGPRS	Slot Average	e Power [dBm]	24.04	24.08	24.10	1.25	1.24	1.23
GMSK 4		1g SAR	0.415			0.52		
Txslots	Bottom edge	10g SAR	0.201			0.25		
		Deviation	0.04			0.04		



Table 14-5 WCDMA1900-BII #1Head

			WCD	MA1900-BII #1	Head				
Ambient To	emperature:	22.5				Liquid Ter	1.15 1.15		
Mode	Device orientation	SAR measurement	Meas CH9538 1907.6 MHz	sured SAR [N CH9400 1880 MHz	W/kg] CH9262 1852.4 MHz	CH9538 CH9400 CH9			
	Tun	e-up	24.00	24.00	24.00				
	Slot Average	Power [dBm]	23.41	23.40	23.37	1.15	1.15	1.16	
		1g SAR		0.308			0.35		
	Left Cheek	10g SAR		0.194			0.22		
		Deviation		0.05			0.05		
		1g SAR		0.162			0.19		
RMC	Left Tilt	10g SAR		0.098			0.11		
RWC		Deviation		-0.08			-0.08		
		1g SAR	0.477	0.481	0.515	0.55	0.55	0.60	
	Right Cheek	10g SAR	0.276	0.278	0.301	0.32	0.32	0.35	
		Deviation	0.02	-0.06	0.01	0.02	-0.06	0.01	
		1g SAR		0.113			0.13		
	Right Tilt	10g SAR		0.071			0.08		
		Deviation		0.06			0.06		

Table 14-6 WCDMA1900-BII #1Body

			WCD	MA1900-BII#1	Body					
Ambient 7	Temperature:	22.5				Liquid Ter	mperature:	22.3		
	Device	SAR	Measured SAR [W/kg]				orted SAR [W			
Mode	orientation	measurement	CH9538	CH9400	CH9262	CH9538		CH9262		
			1907.6 MHz			1907.6 MHz		1852.4 MHz		
		ie-up	24.00	24.00	24.00		Scaling factor	//kg] CH9262 1852.4 MHz		
	Slot Average	Power [dBm]	23.41	23.40	23.37	1.15	CH9400 CH9262 1880 MHz 1852.4 MHz Scaling factor* 1.15 1.16 0.72 0.83 0.42 0.50 0.01 0.09 0.67 0.37 0.04 0.67			
		1g SAR	0.583	0.624	0.719	0.67	0.72	0.83		
	Front	10g SAR	0.336	0.37	0.434	0.38	0.42	0.50		
		Deviation	0.06	0.01	0.09	0.06	0.01	0.09		
		1g SAR		0.585			0.67			
	Rear	10g SAR		0.324			0.37			
		Deviation		0.04			0.04	**CH9262 1852.4 MHz *** 1.16 0.83 0.50		
RMC		1g SAR		0.585			0.67			
	Left edge	10g SAR		0.324			0.37			
	100000000000000000000000000000000000000	Deviation		-0.02			-0.02			
		1g SAR		0.208			0.24			
	Right edge	10g SAR		0.12			0.14			
		Deviation		-0.01			-0.01			
		1g SAR		0.179			0.21			
	Bottom edge	10g SAR		0.106			0.12			
1		Deviation		-0.07			-0.07			



Table 14-7 WCDMA1700-BIV #1Head

	WCDMA1700-BIV #1Head											
Ambient Te	emperature:	22.5				Liquid Ter	52.6 MHz 1732.4 MHz 1712. Scaling factor* 1.03 1.01 1. 0.36 0.32 0. 0.22 0.20 0.					
Mode	Device orientation	SAR measurement	CH1513	sured SAR [V CH1412 1732.4 MHz	CH1312	CH1513	CH1312					
	Tun	e-up	24.00	24.00	24.00							
	Slot Average	Power [dBm]	23.88	23.94	23.91	1.03	1.01	1.02				
		1g SAR	0.348	0.318	0.329	0.36	0.32	0.34				
	Left Cheek	10g SAR	0.214	0.197	0.204	0.22	0.20	0.21				
		Deviation	-0.04	0.04	0.01	-0.04	0.04	0.01				
		1g SAR		0.095			0.10					
RMC	Left Tilt	10g SAR		0.055			0.06					
KWC		Deviation		-0.09			-0.09					
		1g SAR		0.219			0.22					
	Right Cheek	10g SAR		0.135			0.14					
		Deviation		-0.03			-0.03					
		1g SAR		0.081			0.08					
	Right Tilt	10g SAR		0.052			0.05	0.21				
		Deviation		0.05			0.05					

Table 14-8 WCDMA1700-BIV #1Body

	WCDMA1700-BIV #1Body										
Ambient Te	emperature:	22.5				Liquid Ter	mperature:	22.3			
	Device	SAR		sured SAR [V			orted SAR [W				
Mode		measurement	CH1513	CH1412	CH1312	CH1513	CH1412	CH1312			
			1752.6 MHz	1732.4 MHz	1712.4 MHz		1732.4 MHz				
	Tun	e-up	24.00	24.00	24.00		Scaling factor	•			
	Slot Average	Power [dBm]	23.88	23.94	23.91	1.03	1.01	1.02			
		1g SAR	0.717	0.987	0.601	0.74	1.00	0.61			
	Front	10g SAR	0.314	0.595	0.3	0.32	0.60	0.31			
		Deviation	0.06	0.06	-0.01	0.06	0.06	-0.01			
		1g SAR	0.949	0.968	0.895	0.98	0.98	0.91			
	Rear	10g SAR	0.565	0.568	0.534	0.58	0.58	0.55			
		Deviation	-0.04	-0.06	0.03	-0.04	-0.06	7/kg] CH1312 1712.4 MHz 1.02 0.61 0.31 -0.01 0.91			
RMC		1g SAR		0.364			0.37				
	Left edge	10g SAR		0.212			0.21				
		Deviation		0.09			0.09				
		1g SAR		0.297			0.30	0.03			
	Right edge	10g SAR		0.184			0.19				
		Deviation		0.1			0.10				
		1g SAR	0.689	0.859	0.835	0.71	0.87	0.85			
	Bottom edge	10g SAR	0.22	0.463	0.45	0.23	0.47	0.46			
		Deviation	0.04	-0.07	-0.01	0.04	-0.07	-0.01			



Table 14-9 WCDMA850-BV #1Head

	WCDMA850-BV #1Head Ambient Temperature: 22.5 Liquid Temperature: 22.3											
Ambient Te	emperature:	22.5				Liquid Ter	46.6 MHz 835.4 MHz 826.4 Scaling factor* 1.14 1.13 1.1 0.19 0.15 0.06 0.13 0.11 -0.01					
	Device	SAR		sured SAR [V								
Mode		measurement	CH4233	CH4182	CH4132			CH4132				
			846.6 MHz	835.4 MHz	826.4 MHz							
	Tun	e-up	24.00	24.00	24.00		Scaling factor	•				
	Slot Average	Power [dBm]	23.44	23.47	23.45	1.14	1.13	1.14				
		1g SAR		0.17			0.19					
	Left Cheek	10g SAR		0.136			0.15					
		Deviation		0.06			0.06					
		1g SAR		0.118			0.13					
RMC	Left Tilt	10g SAR		0.093			0.11					
KWC		Deviation		-0.01			-0.01					
		1g SAR	0.222	0.219	0.219	0.25	0.25	0.25				
	Right Cheek	10g SAR	0.172	0.169	0.169	0.20	0.19	0.19				
		Deviation	0.14	0.09	0.03	0.14	0.09	0.03				
		1g SAR		0.122			0.14					
	Right Tilt	10g SAR		0.099			0.11	0.19				
		Deviation		0.02			0.02					

Table 14-10 WCDMA850-BV #1Body

			WCE)MA850-BV #1E	Body			
Ambient T	emperature:	22.5				Liquid Ter		
	Device	SAR	Measured SAR [W/kg]					
Mode		measurement	CH4233	CH4182	CH4132			CH4132
			846.6 MHZ		826.4 MHz			
		ie-up	24.00	24.00	24.00			
	Slot Average	Power [dBm]	23.44	23.47	23.45	1.14	1.13	1.14
	I .	1g SAR		0.231			0.26	
	Front	10g SAR		0.166			0.19	
		Deviation		0.05			0.05	
		1g SAR	0.328	0.3	0.278	0.37	0.34	0.32
	Rear	10g SAR	0.181	0.167	0.199	0.21	0.19	0.23
		Deviation	0.03	-0.01	-0.06	0.03	-0.01	-0.06
RMC		1g SAR		0.159			0.18	
	Left edge	10g SAR		0.106			0.12	
		Deviation		0.03			0.03	
		1g SAR		0.221			0.25	
	Right edge	10g SAR		0.148			0.17	
		Deviation		-0.09			-0.09	
		1g SAR		0.144			0.16	
	Bottom edge	10g SAR		0.08			0.09	
	Bottom edge	Deviation		0.01			0.01	



Table 14-11 LTE1900-FDD2 #1 Head

			LTE1	1900-FDD2 #1	Head			
Ambient Te	emperature:	22.5				Liquid Ter	mperature:	22.3
	Davisa	SAR	Meas	sured SAR [W/kg]		orted SAR [V	V/kg]
Mode	Device	measureme	19100	18900	18700	19100	18900	18700
	orientation	nt	М	М	М	М	M	M
		e-up	24.00	24.00	24.00		Scaling factor	
	Measured F	ower [dBm]	23.44	23.02	23.00	1.14	1.25	1.26
		1g SAR	0.296			0.34		
	Left Cheek	10g SAR	0.183			0.21		
		Deviation	-0.05			-0.05		
	194 - 10412/1542/10	1g SAR	0.189			0.22		
20MHz	Left Tilt	10g SAR	0.111			0.13		
QPSK1RB		Deviation	0.03			0.03		
		1g SAR	0.465			0.53		
	Right Cheek	10g SAR	0.27			0.31		
		Deviation	0.13			0.13		
		1g SAR	0.102			0.12		
	Right Tilt	10g SAR	0.063			0.07		
		Deviation	0.09			0.09		
		SAR	Measured SAR [W/kg]			Repo	orted SAR [V	V/kg]
TRUE	Device	measureme	19100	18900	18700	19100	18900	18700
	orientation	nt	М	L	н	М	L	Н
	Tun	e-up	23.00	23.00	23.00		Scaling factor	
	Measured F	Power [dBm]	22.40	22.43	21.87	1.15	1.14	1.30
		1g SAR		0.252			0.29	
	Left Cheek	10g SAR		0.157			0.18	
		Deviation		0.02			0.02	
		1g SAR		0.162			0.18	
20MHz	Left Tilt	10g SAR		0.097			0.11	
QPSK50%		Deviation		-0.06			-0.06	//kg] 18700 M 1.26 1.26 //kg] 18700 H
RB		1g SAR		0.361			0.41	18700 M * 1.26 1.26 V/kg] 18700
	Right Cheek			0.207			0.24	
		Deviation		-0.01			-0.01	
		1g SAR		0.092			0.10	
	Right Tilt	10g SAR		0.055			0.06	
		Deviation		0.04			0.04	



Table 14-12 LTE1900-FDD2 #1 Body

			LTE1	1900-FDD2 #1	Body			
Ambient Te	emperature:	22.5				Liquid Ter	mperature:	22.3
		SAR	Meas	sured SAR [W/kg]	Rep	orted SAR [V	V/kg]
Mode	Device	measureme	19100	18900	18700	19100	18900	18700
	orientation	nt	М	М	М	М	М	М
	Tun	e-up	24.00	24.00	24.00		Scaling factor	.*
	Measured F	Power [dBm]	23.44	23.02	23.00	1.14	1.25	1.26
		1g SAR	0.688			0.78		
	Front	10g SAR	0.362			0.41		V/kg] 18700 M 1.26 1.26 V/kg] 18700
		Deviation	0.09			0.09		
		1g SAR	0.689			0.78		
	Rear	10g SAR	0.365			0.42		
001411-	110.771.000	Deviation	0.08		• • • • • • • • • • • • • • • • • • • •	0.08		
20MHz		1g SAR	0.14			0.16		
QPSK1RB	Left edge	10g SAR	0.077			0.09		
		Deviation	-0.04			-0.04		
		1g SAR	0.237			0.27		
	Right edge	10g SAR	0.133			0.15		
		Deviation	-0.01			-0.01		
		1g SAR	0.658			0.75		
	Bottom edge	10g SAR	0.319			0.36		
		Deviation	0.05			0.05		
		SAR	Meas	sured SAR	W/kg]	Rep	orted SAR [V	V/kg]
Mode	Device	measureme	19100	18900	18700	19100	18900	18700
	orientation	nt	М	L	Н			
	Tun	e-up	23.00	23.00	23.00		Scaling factor	
	Measured F	Power [dBm]	22.40	22.43	21.87	1.15	1.14	1.30
		1g SAR		0.616			0.70	
	Front	10g SAR		0.358			0.41	
	1100000	Deviation		0.03			0.03	
		1g SAR		0.571			0.65	
//A-22-8/80-W-8	Rear	10g SAR		0.333			0.38	
20MHz		Deviation		0.07			0.07	
QPSK50%		1g SAR		0.12			0.14	
RB	Left edge	10g SAR		0.068	[0.08	
	ALL THE ARTIST	Deviation		-0.03			-0.03	
		1g SAR		0.218			0.25	
	Right edge	10g SAR		0.119			0.14	
		Deviation		-0.01			-0.01	
		1g SAR		0.595			0.68	
	Bottom edge	10g SAR		0.291			0.33	
		Deviation		0.02			0.02	



Table 14-13 LTE850-FDD5 #1 Head

			LTE	850-FDD5 #1	Head			
Ambient Temperature: 22.5						Liquid Temperature: 22.3		
Mode	Device orientation	SAR	Measured SAR [W/kg]			Reported SAR [W/kg]		
		measureme	20600	20525	20450	20600	20525	20450
		nt	М	М	М	M	М	М
10MHz QPSK1RB	Tune-up		24.50	24.50	24.50	Scaling factor*		
	Measured F	ower [dBm]	23.47	23.37	23.45	1.27	1.30	1.27
	Left Cheek	1g SAR	0.19			0.24		
		10g SAR	0.153			0.19		
		Deviation	0.05			0.05		
	Left Tilt	1g SAR	0.165			0.21		
		10g SAR	0.132			0.17		
		Deviation	-0.03			-0.03		
	Right Cheek	1g SAR	0.243			0.31		
		10g SAR	0.186			0.24		
		Deviation	0.11			0.11		
	Right Tilt	1g SAR	0.124			0.16		
		10g SAR	0.101			0.13		
		Deviation	0.06			0.06		
TRUE	Device orientation	SAR	Measured SAR [W/kg]			Reported SAR [W/kg]		
		measureme	20600	20525	20450	20600	20525	20450
		nt	Н	М	М	Н	М	М
10MHz QPSK50% RB	Tune-up		23.50	23.50	23.50	Scaling factor*		*
	Measured Power [dBm]		22.38	22.40	22.34	1.29	1.29	1.30
	Left Cheek	1g SAR		0.144			0.19	
		10g SAR		0.117			0.15	
		Deviation		0.01			0.01	
	Left Tilt	1g SAR		0.11			0.14	
		10g SAR		0.089			0.11	
		Deviation		-0.04			-0.04	
	Right Cheek	1g SAR		0.185			0.24	
		10g SAR		0.144			0.19	
		Deviation		-0.01			-0.01	
	Right Tilt	1g SAR		0.105			0.14	
		10g SAR		0.085			0.11	
		Deviation		0.03		·	0.03	