

Table 13.17: SAR Values(LTE Band 12-Head) Up Antenna

Report No.: I18D00109-SAR01

Frequ	uency			Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	Configuration	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Left	Touch	1	23.15	23.5	1.084	0.051	0.055	-0.13
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Left	Tilt	1	23.15	23.5	1.084	0.043	0.047	-0.17
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Right	Touch	Fig.17	23.15	23.5	1.084	0.085	0.092	-0.14
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Right	Tilt	1	23.15	23.5	1.084	0.08	0.087	-0.06
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Left	Touch	1	22.19	23	1.205	0.045	0.054	-0.06
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Left	Tilt	1	22.19	23	1.205	0.042	0.051	-0.31
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Right	Touch	1	22.19	23	1.205	0.072	0.087	0.12
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Right	Tilt	1	22.19	23	1.205	0.067	0.081	0.02

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Table 13.18: SAR Values (LTE Band 12-Body) Up Antenna

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Frequ	uency				(Measured	Maximum				
MHz	Ch.	Configuration	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Phantom	10	Fig.18	23.15	23.5	1.084	0.015	0.016	-0.15
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Ground	10	1	23.15	23.5	1.084	0.014	0.015	-0.17
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Left	10	1	23.15	23.5	1.084	0.009	0.010	0.12
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Right	10	1	23.15	23.5	1.084	0.001	0.001	-0.18
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Top	10	1	23.15	23.5	1.084	0.01	0.011	-0.01
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Phantom	10	1	22.19	23	1.205	0.011	0.013	-0.12
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Ground	10	1	22.19	23	1.205	0.011	0.013	-0.19
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Left	10	1	22.19	23	1.205	0.009	0.011	0.17
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Right	10	1	22.19	23	1.205	0.001	0.001	-0.15
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Top	10	1	22.19	23	1.205	0.007	0.008	0.11



Table 13.19: SAR Values(LTE Band 66-Head) Up Antenna

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Table 13.19: SAR Values(LTE Band 66-Head) Up Antenna												
	luency	Configuration	Side	Test Position	Figure No.	Measured average power	Maximum allowed Power	Scaling factor	Measured SAR(1g)	Reported SAR(1g)	Power Drift	
MHz	Ch.				1101	(dBm)	(dBm)	luoto.	(W/kg)	(W/kg)	(dB)	
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Left	Touch	1	23.34	23.5	1.038	0.401	0.416	0.18	
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Left	Tilt	1	23.34	23.5	1.038	0.431	0.447	0.10	
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Right	Touch	1	23.34	23.5	1.038	0.865	0.897	-0.07	
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Right	Tilt	Fig.19	23.34	23.5	1.038	0.906	0.940	0.03	
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Left	Touch	-	22.56	23.5	1.242	0.312	0.387	0.12	
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Left	Tilt	1	22.56	23.5	1.242	0.337	0.418	0.16	
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Right	Touch	-	22.56	23.5	1.242	0.677	0.841	0.15	
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Right	Tilt	1	22.56	23.5	1.242	0.704	0.874	0.08	
1745	132322	QPSK_20MHz_1RB_ 50 offset Middle	Right	Touch	1	23.13	23.5	1.089	0.825	0.898	0.01	
1770	132572	QPSK_20MHz_1RB_ 50 offset High	Right	Touch	1	22.91	23.5	1.146	0.769	0.881	0.06	
1745	132322	QPSK_20MHz_1RB_ 50 offset Middle	Right	Tilt	1	23.13	23.5	1.089	0.845	0.920	0.02	
1770	132572	QPSK_20MHz_1RB_ 50 offset High	Right	Tilt	1	22.91	23.5	1.146	0.853	0.977	0.07	
1745	132322	QPSK_20MHz_50RB_ 0 offset Middle	Right	Touch	1	22.49	23.5	1.262	0.621	0.784	0.10	
1770	132572	QPSK_20MHz_50RB_ 0 offset High	Right	Touch	1	22.36	23.5	1.300	0.635	0.826	-0.07	
1745	132322	QPSK_20MHz_50RB_ 0 offset Middle	Right	Tilt	1	22.49	23.5	1.262	0.645	0.814	0.03	
1770	132572	QPSK_20MHz_50RB_ 0 offset High	Right	Tilt	1	22.36	23.5	1.300	0.657	0.854	0.12	
1745	132322	QPSK_20MHz_100RB_ 0 offset Middle	Right	Tilt	1	22.06	22.5	1.107	0.598	0.662	0.16	
					Rep	eated						
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Right	Tilt	1	23.34	23.5	1.038	0.839	0.87	-0.13	

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Table 13.20: SAR Values (LTE Band 66-Body) Up Antenna

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Freq	luency				,	Measured	Maximum		Massurad	Demonted	Dawer
MHz	Ch.	Configuration	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Phantom	10	1	23.34	23.5	1.038	0.203	0.211	0.13
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Ground	10	1	23.34	23.5	1.038	0.258	0.268	0.16
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Left	10	Fig.20	23.34	23.5	1.038	0.268	0.278	0.03
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Right	10	1	23.34	23.5	1.038	0.041	0.043	0.13
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Top	10	1	23.34	23.5	1.038	0.257	0.267	0.16
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Phantom	10	1	22.56	23.5	1.242	0.155	0.192	0.07
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Ground	10	1	22.56	23.5	1.242	0.201	0.250	0.12
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Left	10	1	22.56	23.5	1.242	0.209	0.260	-0.04
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Right	10	1	22.56	23.5	1.242	0.033	0.041	0.11
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Top	10	1	22.56	23.5	1.242	0.221	0.274	0.15



Table 13.21: SAR Values(GSM 850 MHz Band-Head) Down Antenna

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Freque	ency	Mode		Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	/Band	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
836.6	190	GSM850	Left	Touch	1	32.44	33	1.138	0.128	0.146	-0.05
836.6	190	GSM850	Left	Tilt	1	32.44	33	1.138	0.099	0.113	-0.04
836.6	190	GSM850	Right	Touch	Fig.21	32.44	33	1.138	0.156	0.178	-0.07
836.6	190	GSM850	Right	Tilt	1	32.44	33	1.138	0.117	0.133	0.02

Table 13.22: SAR Values (GSM 850 MHz Band-Body) Down Antenna

Freque	ency						Measured	Maximum		Measured	Papartad	Power
MHz	Ch.	Mode /Band	Service /Headset	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Drift (dB)
836.6	190	GPRS 4TS	Class12	Toward Phantom	10	1	28.53	29	1.114	0.268	0.299	-0.11
836.6	190	GPRS 4TS	Class12	Toward Ground	10	Fig.22	28.53	29	1.114	0.509	0.567	-0.04
836.6	190	GPRS 4TS	Class12	Toward Left	10	1	28.53	29	1.114	0.100	0.111	-0.20
836.6	190	GPRS 4TS	Class12	Toward Right	10	1	28.53	29	1.114	0.431	0.480	-0.05
836.6	190	GPRS 4TS	Class12	Toward Bottom	10	1	28.53	29	1.114	0.48	0.535	-0.13

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Table 13.23: SAR Values(GSM 1900 MHz Band- Head) Down Antenna

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Freque	ency	Mode		Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	/Band	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1880	661	GSM1900	Left	Touch	1	29.76	30	1.057	0.091	0.096	0.16
1880	661	GSM1900	Left	Tilt	1	29.76	30	1.057	0.082	0.087	-0.01
1880	661	GSM1900	Right	Touch	Fig.23	29.76	30	1.057	0.147	0.155	0.13
1880	661	GSM1900	Right	Tilt	1	29.76	30	1.057	0.063	0.067	0.17

Table 13.24: SAR Values (GSM 1900 MHz Band-Body) Down Antenna

Freque	ency						Measured	Maximum		Measured	Reported	Power
MHz	Ch.	Mode /Band	Service /Headset	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1880	661	GPRS 4TS	Class12	Toward Phantom	10	-	25.6	26	1.096	0.308	0.338	-0.07
1880	661	GPRS 4TS	Class12	Toward Ground	10	Fig.24	25.6	26	1.096	0.353	0.387	-0.01
1880	661	GPRS 4TS	Class12	Toward Left	10	1	25.6	26	1.096	0.127	0.139	0.15
1880	661	GPRS 4TS	Class12	Toward Right	10	1	25.6	26	1.096	0.303	0.332	0.07
1880	661	GPRS 4TS	Class12	Toward Bottom	10	1	25.6	26	1.096	0.076	0.083	-0.12

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Table 13.25: SAR Values(WCDMA Band II- Head) Down Antenna

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Frequ	ency	Mode		Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	/Band	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1880	9400	Band II	Left	Touch	1	23.27	24	1.183	0.229	0.271	0.13
1880	9400	Band II	Left	Tilt	1	23.27	24	1.183	0.101	0.119	0.09
1880	9400	Band II	Right	Touch	Fig.25	23.27	24	1.183	0.242	0.286	-0.16
1880	9400	Band II	Right	Tilt	1	23.27	24	1.183	0.113	0.134	0.19

Table 13.26: SAR Values (WCDMA Band II-Body) Down Antenna

Frequ	ency						Measured	Maximum		Measured	Reported	Power
MHz	Ch.	Mode /Band	Service /Headset	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1880	9400	Band II	12.2kbps RMC	Toward Phantom	10	1	23.27	24	1.183	0.223	0.264	-0.19
1880	9400	Band II	12.2kbps RMC	Toward Ground	10	Fig.26	23.27	24	1.183	0.301	0.356	-0.04
1880	9400	Band II	12.2kbps RMC	Toward Left	10	1	23.27	24	1.183	0.153	0.181	-0.14
1880	9400	Band II	12.2kbps RMC	Toward Right	10	1	23.27	24	1.183	0.148	0.175	0.08
1880	9400	Band II	12.2kbps RMC	Toward Bottom	10	1	23.27	24	1.183	0.01	0.012	-0.08

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Table 13.27: SAR Values(WCDMA Band IV- Head) Down Antenna

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Freque	ency	Mode		Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	/Band	Side Left	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1732.6	1413	Band IV	Left	Touch	1	22.12	23	1.225	0.22	0.270	0.12
1732.6	1413	Band IV	Left	Tilt	1	22.12	23	1.225	0.168	0.206	0.05
1732.6	1413	Band IV	Right	Touch	Fig.27	22.12	23	1.225	0.282	0.345	0.18
1732.6	1413	Band IV	Right	Tilt	1	22.12	23	1.225	0.147	0.180	0.14

Table 13.28: SAR Values (WCDMA Band IV-Body) Down Antenna

Freque MHz	ency Ch.	Mode /Band	Service /Headset	Test Position	Spacing (mm)	Figure No.	Measured average power (dBm)	Maximum allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
1732.6	1413	Band IV	12.2kbps RMC	Toward Phantom	10	Fig.28	22.12	23	1.225	0.333	0.408	-0.08
1732.6	1413	Band IV	12.2kbps RMC	Toward Ground	10	1	22.12	23	1.225	0.256	0.314	0.14
1732.6	1413	Band IV	12.2kbps RMC	Toward Left	10	1	22.12	23	1.225	0.168	0.206	-0.01
1732.6	1413	Band IV	12.2kbps RMC	Toward Right	10	1	22.12	23	1.225	0.27	0.331	-0.03
1732.6	1413	Band IV	12.2kbps RMC	Toward Bottom	10	1	22.12	23	1.225	0.028	0.034	-0.12

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Table 13.29: SAR Values(WCDMA Band V- Head) Down Antenna

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Frequ	iency	Mode		Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	/Band	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
836.6	4183	Band V	Left	Touch	1	22.28	23	1.180	0.12	0.142	-0.16
836.6	4183	Band V	Left	Tilt	1	22.28	23	1.180	0.066	0.078	0.03
836.6	4183	Band V	Right	Touch	Fig.29	22.28	23	1.180	0.157	0.185	-0.15
836.6	4183	Band V	Right	Tilt	1	22.28	23	1.180	0.09	0.106	-0.05

Table 13.30: SAR Values (WCDMA Band V-Body) Down Antenna

MHz	Ch.	Mode /Band	Service /Headset	Test Position	Spacing (mm)	Figure No.	Measured average power (dBm)	Maximum allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
836.6	4183	Band V	12.2kbps RMC	Toward Phantom	10	Fig.30	22.28	23	1.180	0.299	0.353	0.09
836.6	4183	Band V	12.2kbps RMC	Toward Ground	10	1	22.28	23	1.180	0.255	0.301	-0.12
836.6	4183	Band V	12.2kbps RMC	Toward Left	10	1	22.28	23	1.180	0.001	0.001	-0.1
836.6	4183	Band V	12.2kbps RMC	Toward Right	10	1	22.28	23	1.180	0.153	0.181	0.14
836.6	4183	Band V	12.2kbps RMC	Toward Bottom	10	1	22.28	23	1.180	0.295	0.348	0.12

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Table 13.31: SAR Values(LTE Band 2- Head) Down Antenna

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Frequ	uency	Configuration	Side	Test	Figure	Measured average	Maximum allowed	Scaling	Measured SAR(1g)	Reported SAR(1g)	Power Drift
MHz	Ch.	oomiga aan	0.00	Position	No.	power (dBm)	Power (dBm)	factor	(W/kg)	(W/kg)	(dB)
1860	18700	QPSK_20MHz_1RB_ 50 offset Low	Left	Touch	1	22.77	23	1.054	0.17	0.179	0.15
1860	18700	QPSK_20MHz_1RB_ 50 offset Low	Left	Tilt	1	22.77	23	1.054	0.17	0.179	0.15
1860	18700	QPSK_20MHz_1RB_ 50 offset Low	Right	Touch	Fig.31	22.77	23	1.054	0.266	0.280	0.18
1860	18700	QPSK_20MHz_1RB_ 50 offset Low	Right	Tilt	1	22.77	23	1.054	0.114	0.120	0.20
1860	18700	QPSK_20MHz_50RB_ 0 offset Low	Left	Touch	1	21.84	23	1.306	0.139	0.182	0.13
1860	18700	QPSK_20MHz_50RB_ 0 offset Low	Left	Tilt	1	21.84	23	1.306	0.135	0.176	0.13
1860	18700	QPSK_20MHz_50RB_ 0 offset Low	Right	Touch	1	21.84	23	1.306	0.201	0.263	0.17
1860	18700	QPSK_20MHz_50RB_ 0 offset Low	Right	Tilt	1	21.84	23	1.306	0.107	0.140	0.12

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Table 13.32: SAR Values (LTE Band 2-Body) Down Antenna

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_		Iab	ie 13.32: 5	AK Value	S (LIE	Band 2-Boo		intenna			
Frequ	iency					Measured	Maximum		Measured	Reported	Power
		Configuration	Test	Spacing	Figure	average	allowed	Scaling	SAR(1g)	SAR(1g)	Drift
MHz	Ch.	ooga.aa.o	Position	(mm)	No.	power	Power	factor	(W/kg)	(W/kg)	(dB)
						(dBm)	(dBm)		(**/*\9/	(11/1.9)	(42)
1860	18700	QPSK_20MHz_1RB_	Toward	10	1	22.77	23	1.054	0.325	0.343	-0.07
1000	18700	50 offset Low	Phantom	10	,	22.11	23	1.034	0.323	0.545	-0.07
1860	18700	QPSK_20MHz_1RB_	Toward	10	,	22.77	22	1.054	0.222	0.245	0.04
1000	18700	50 offset Low	Ground	10	/	22.77	23	1.054	0.232	0.245	0.04
4000	40700	QPSK_20MHz_1RB_	Toward	40	,	22.77	22	4.054	0.454	0.400	0.45
1860	18700	50 offset Low	Left	10	/	22.77	23	1.054	0.154	0.162	0.15
4000	40700	QPSK_20MHz_1RB_	Toward	40	,	00.77	00	4.054	0.000	0.000	0.40
1860	18700	50 offset Low	Right	10	/	22.77	23	1.054	0.292	0.308	-0.19
4000	40700	QPSK_20MHz_1RB_	Toward	40	F: 00	00.77	00	4.054	0.044	0.055	0.00
1860	18700	50 offset Low	Bottom	10	Fig.32	22.77	23	1.054	0.811	0.855	0.08
4000	40700	QPSK_20MHz_50RB_	Toward	40	,	04.04	00	4 000	0.045	0.454	0.40
1860	18700	0 offset Low	Phantom	10	/	21.84	23	1.306	0.345	0.451	0.12
1000	40=00	QPSK_20MHz_50RB_	Toward	4.0		04.04		4.000			
1860	18700	0 offset Low	Ground	10	/	21.84	23	1.306	0.466	0.609	-0.06
		QPSK_20MHz_50RB_	Toward		_						
1860	18700	0 offset Low	Left	10	/	21.84	23	1.306	0.122	0.159	0.12
		QPSK_20MHz_50RB_	Toward		_						
1860	18700	0 offset Low	Right	10	/	21.84	23	1.306	0.234	0.306	0.13
		QPSK_20MHz_50RB_	Toward		_						
1860	18700	0 offset Low	Bottom	10	/	21.84	23	1.306	0.688	0.899	0.20
		QPSK_20MHz_1RB_	Toward		_						
1880	18900	50 offset Middle	Bottom	10	/	22.73	23	1.064	0.586	0.624	0.11
		QPSK_20MHz_1RB_	Toward		_						
1900	19100	50 offset High	Bottom	10	/	22.61	23	1.094	0.5	0.547	0.13
		QPSK_20MHz_50RB_	Toward								
1880	18900	0 offset Middle	Bottom	10	/	21.81	23	1.315	0.478	0.629	0.05
		QPSK_20MHz_50RB_	Toward								
1900	19100	0 offset High	Bottom	10	/	21.65	23	1.365	0.424	0.579	0.09
	1			I	_	_					
					Repea	ated					
		QPSK_20MHz_1RB_	Toward		_						
1860	18700	50 offset Low	Bottom	10	/	22.77	23	1.054	0.795	0.838	0.20
				1	l						



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Table 13.33: SAR Values(LTE Band 5- Head) Down Antenna

Frequ	uency			Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	Configuration	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Left	Touch	1	22.52	23	1.117	0.167	0.187	-0.17
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Left	Tilt	1	22.52	23	1.117	0.088	0.098	-0.04
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Right	Touch	Fig.33	22.52	23	1.117	0.177	0.198	-0.09
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Right	Tilt	1	22.52	23	1.117	0.076	0.085	-0.03
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Left	Touch	1	21.7	23	1.349	0.128	0.173	-0.16
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Left	Tilt	1	21.7	23	1.349	0.069	0.093	-0.02
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Right	Touch	1	21.7	23	1.349	0.161	0.217	-0.06
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Right	Tilt	1	21.7	23	1.349	0.076	0.103	-0.07

Table 13.34: SAR Values (LTE Band 5-Body) Down Antenna

	Fabre 13.34. SAR Values (LTE Band 3-Body) Down Antenna											
Frequ	uency					Measured	Maximum		Measured	Reported	Power	
MHz	Ch.	Configuration	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)	
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Toward Phantom	10	Fig.34	22.52	23	1.117	0.297	0.332	0.08	
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Toward Ground	10	1	22.52	23	1.117	0.216	0.241	-0.08	
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Toward Left	10	1	22.52	23	1.117	0.121	0.135	-0.18	
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Toward Right	10	1	22.52	23	1.117	0.263	0.294	-0.13	
836.5	20525	QPSK_10MHz_1RB_ 25 offset Middle	Toward Bottom	10	1	22.52	23	1.117	0.264	0.295	0.04	
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Toward Phantom	10	1	21.7	23	1.349	0.235	0.317	0.01	
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Toward Ground	10	1	21.7	23	1.349	0.173	0.233	-0.06	

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836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Toward Left	10	1	21.7	23	1.349	0.096	0.130	-0.02
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Toward Right	10	1	21.7	23	1.349	0.207	0.279	-0.05
836.5	20525	QPSK_10MHz_25RB_ 13 offset Middle	Toward Bottom	10	1	21.7	23	1.349	0.206	0.278	0.10

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Table 13.35: SAR Values(LTE Band 7- Head) Down Antenna

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Frequ	iency			Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	Configuration	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Left	Touch	1	19.95	20	1.012	0.237	0.240	0.06
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Left	Tilt	1	19.95	20	1.012	0.198	0.200	0.13
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Right	Touch	1	19.95	20	1.012	0.096	0.097	0.16
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Right	Tilt	Fig.35	19.95	20	1.012	0.255	0.258	0.12
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Left	Touch	1	19.11	20	1.227	0.173	0.212	0.18
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Left	Tilt	1	19.11	20	1.227	0.155	0.190	0.08
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Right	Touch	1	19.11	20	1.227	0.067	0.082	0.12
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Right	Tilt	1	19.11	20	1.227	0.201	0.247	-0.06

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Table 13.36: SAR Values (LTE Band 7-Body) Down Antenna

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Frequ	uency					Measured	Maximum		Maggurad	Papartad	Dower
MHz	Ch.	Configuration	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Toward Phantom	10	1	19.95	20	1.012	0.225	0.228	0.10
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Toward Ground	10	1	19.95	20	1.012	0.242	0.245	0.12
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Toward Left	10	1	19.95	20	1.012	0.281	0.284	0.19
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Toward Right	10	1	19.95	20	1.012	0.094	0.095	0.13
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Toward Bottom	10	Fig.36	19.95	20	1.012	0.518	0.524	0.17
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Toward Phantom	10	1	19.11	20	1.227	0.18	0.221	0.14
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Toward Ground	10	1	19.11	20	1.227	0.194	0.238	0.07
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Toward Left	10	1	19.11	20	1.227	0.223	0.274	0.18
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Toward Right	10	1	19.11	20	1.227	0.075	0.092	0.18
2535	21100	QPSK_20MHz_50RB_ 25 offset Middle	Toward Bottom	10	1	19.11	20	1.227	0.413	0.507	0.16

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Table 13.37: SAR Values(LTE Band 12- Head) Down Antenna

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Frequ	iency			Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	Configuration	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Left	Touch	1	23.15	23.5	1.084	0.117	0.127	-0.05
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Left	Tilt	1	23.15	23.5	1.084	0.083	0.090	0.00
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Right	Touch	Fig.37	23.15	23.5	1.084	0.124	0.134	0.15
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Right	Tilt	1	23.15	23.5	1.084	0.075	0.081	-0.14
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Left	Touch	1	22.19	23	1.205	0.095	0.114	0.12
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Left	Tilt	1	22.19	23	1.205	0.067	0.081	0.09
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Right	Touch	1	22.19	23	1.205	0.101	0.122	-0.13
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Right	Tilt	1	22.19	23	1.205	0.061	0.074	-0.19



Table 13.38: SAR Values (LTE Band 12-Body) Down Antenna

Report No.: I18D00109-SAR01

Frequ	uency				-	Measured	Maximum		Magazirad	Danastad	Dower
MHz	Ch.	Configuration	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Phantom	10	1	23.15	23.5	1.084	0.153	0.166	0.01
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Ground	10	1	23.15	23.5	1.084	0.172	0.186	-0.04
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Left	10	1	23.15	23.5	1.084	0.125	0.136	0.19
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Right	10	Fig.38	23.15	23.5	1.084	0.25	0.271	-0.17
707.5	23095	QPSK_10MHz_1RB_ 25 offset Middle	Toward Bottom	10	1	23.15	23.5	1.084	0.071	0.077	-0.16
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Phantom	10	1	22.19	23	1.205	0.124	0.149	-0.04
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Ground	10	1	22.19	23	1.205	0.14	0.169	-0.05
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Left	10	1	22.19	23	1.205	0.103	0.124	0.12
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Right	10	1	22.19	23	1.205	0.18	0.217	-0.13
707.5	23095	QPSK_10MHz_25RB_ 0 offset Middle	Toward Bottom	10	1	22.19	23	1.205	0.06	0.072	-0.18

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Table 13.39: SAR Values(LTE Band 66-Head) Down Antenna

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			101001				eau) Down		<u>-</u>		
Freq	uency			Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
		Configuration	Side	Position	No.	power	Power	factor	SAR(1g)	SAR(1g)	Drift
MHz	Ch.					(dBm)	(dBm)	iuoto.	(W/kg)	(W/kg)	(dB)
						(ubiii)	(dBiii)				
1720	132072	QPSK_20MHz_1RB_	Left	Touch	1	23.34	23.5	1.038	0.501	0.520	-0.01
		50 offset Low			-						
4700	422072	QPSK_20MHz_1RB_	1 -64	T:14	,	22.24	22.5	4.000	0.404	0.446	0.05
1720	132072	50 offset Low	Left	Tilt	1	23.34	23.5	1.038	0.401	0.416	0.05
		QPSK_20MHz_1RB_									
1720	132072	50 offset Low	Right	Touch	Fig.39	23.34	23.5	1.038	0.684	0.710	0.16
		QPSK_20MHz_1RB_									
1720	1720 132072	50 offset Low	Right	Tilt	/	23.34	23.5	1.038	0.397	0.412	0.09
		QPSK_20MHz_50RB_			_		_				
1720	132072	0 offset Low	Left	Touch	1	22.56	23.5	1.242	0.382	0.474	0.17
4=00	400000	QPSK_20MHz_50RB_				22.50		1 0 10			
1720	132072	0 offset Low	Left	Tilt	1	22.56	23.5	1.242	0.31	0.385	0.07
4=00	4000=0	QPSK_20MHz_50RB_						4.040	0.500		0.40
1720	132072	0 offset Low	Right	Touch	1	22.56	23.5	1.242	0.523	0.650	0.13
4=00	4000=0	QPSK_20MHz_50RB_						4.040			
1720	132072	0 offset Low	Right	Tilt	/	22.56	23.5	1.242	0.308	0.383	0.05
					Seconda	ary supply					
4700	422070	QPSK_20MHz_1RB_	Diam'r	Tawak	,	22.24	22.5	4.020	0.400	0.440	0.04
1720	132072	50 offset Low	Right	Touch	/	23.34	23.5	1.038	0.426	0.442	0.01



Table 14.40: SAR Values (LTE Band 66-Body) Down Antenna

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Freq	luency					Measured	Maximum		Measured	Reported	Power
MHz	Ch.	Configuration	Test Position	Spacing (mm)	Figure No.	average power (dBm)	allowed Power (dBm)	Scaling factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Phantom	10	Fig.40	23.34	23.5	1.038	0.498	0.517	-0.12
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Ground	10	1	23.34	23.5	1.038	0.436	0.453	-0.06
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Left	10	1	23.34	23.5	1.038	0.329	0.342	-0.08
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Right	10	1	23.34	23.5	1.038	0.475	0.493	-0.02
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Toward Bottom	10	1	23.34	23.5	1.038	0.183	0.190	0.10
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Phantom	10	1	22.56	23.5	1.242	0.416	0.517	-0.06
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Ground	10	1	22.56	23.5	1.242	0.352	0.437	-0.09
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Left	10	1	22.56	23.5	1.242	0.264	0.328	-0.13
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Right	10	1	22.56	23.5	1.242	0.363	0.451	-0.12
1720	132072	QPSK_20MHz_50RB_ 0 offset Low	Toward Bottom	10	1	22.56	23.5	1.242	0.134	0.166	0.19

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Table 13.41: SAR Values (Wi-Fi 802.11b - Head)

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						· values (v		D HCGG	<u> </u>		
Freque	ency	Mode		Test	Figure	Measured average	Maximum allowed	Scaling	Measured	Reported	Power
MHz	Ch.	/Band	Side	Position	No.	power (dBm)	Power (dBm)	factor	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
2412	1	Wi-Fi 2450	Left	Touch	1	13.12	13.5	1.091	0.357	0.389	0.24
2412	1	Wi-Fi 2450	Left	Tilt	1	13.12	13.5	1.091	0.269	0.293	0.12
2412	1	Wi-Fi 2450	Right	Touch	1	13.12	13.5	1.091	0.319	0.348	0.08
2412	1	Wi-Fi 2450	Right	Tilt	Fig.41	13.12	13.5	1.091	0.369	0.403	0.12

Table 13.42: SAR Values (Wi-Fi 802.11b - Body)

Freque MHz	Ch.	Mode /Band	Service /Headset	Test Position	Spacing (mm)	Figure No.	Measured average power (dBm)	Maximum allowed Power (dBm)	Scaling factor	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
2412	1	Wi-Fi 2450	802.11b	Toward Phantom	10	1	13.12	13.5	1.091	0.212	0.231	0.08
2412	1	Wi-Fi 2450	802.11b	Toward Ground	10	1	13.12	13.5	1.091	0.164	0.179	0.08
2412	1	Wi-Fi 2450	802.11b	Toward Left	10	1	13.12	13.5	1.091	0.008	0.009	0.12
2412	1	Wi-Fi 2450	802.11b	Toward Right	10	1	13.12	13.5	1.091	0.021	0.023	0.16
2412	1	Wi-Fi 2450	802.11b	Toward Top	10	Fig.42	13.12	13.5	1.091	0.396	0.432	0.10



14. Evaluation of Simultaneous

Table14.1 Simultaneous transmission SAR (WWAN Up Antenna +WLAN)

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Standa	alone SAR	for 2G	(W/Kg) l	Jp Anten	na
Toot	Position		GSM	GSM	Highest
iest	Position		850	1900	SAR
	Left	Cheek	0.776	0.293	0.776
Head	Leit	Tilt 15°	0.954	0.314	0.954
пеац	6: -:	Cheek	0.929	0.719	0.929
	Right	Tilt 15°	0.862	0.689	0.862
Hotspot &Body-	Phantom	Side	0.740	0.515	0.740
worn 10 mm	Ground	Side	0.547	0.489	0.547
	Left Si	de	0.451	0.181	0.451
Hotopot 10 mm	Right Side			0.298	0.298
Hotspot 10 mm	Top Si	de	0.818	0.464	0.818
	Bottom	Side			

	Standalor	ne SAR	for 3G(V	V/Kg) Up	Antenna	
Toot	Position		WCDMA	WCDMA	WCDMA	Highest SAR
lest	FOSITION		Band II	Band IV	Band V	Highest SAN
	Left		0.329	0.345	0.826	0.826
Head	Leit	Tilt 15°	0.075	0.371	0.818	0.818
neau	Dight	Cheek	0.761	0.946	1.123	1.123
	Right	Tilt 15°	0.574	0.681	1.117	1.117
Hotspot &Body-	Phantom	Side	0.131	0.202	0.517	0.517
worn 10 mm	Ground	Side	0.173	0.180	0.326	0.326
	Left Si	de	0.112	0.168	0.281	0.281
Hotspot 10 mm	Right S	Side	0.027	0.027	0.096	0.096
Hotspot 10 mm	Top Si	de	0.093	0.173	0.404	0.404
	Bottom	Side				



Standalone SAR for 4G (W/Kg) Up Antenna										
Test Pos	Test Position			LTE Band 5	LTE Band7	LTE Band 12	LTE Band 66	Highest SAR		
	Left	Cheek	0.257	0.698	0.457	0.055	0.416	0.457		
Used	Leit	Tilt 15°	0.227	1.038	0.550	0.051	0.447	1.038		
Head	D	Cheek	0.585	0.984	1.039	0.092	0.898	1.039		
	Right	Tilt 15°	0.522	0.982	1.052	0.087	0.977	1.052		
Hotspot &Body- worn	Phanto	m Side	0.091	0.371	0.535	0.016	0.211	0.535		
10 mm	Groun	d Side	0.148	0.346	0.324	0.015	0.268	0.346		
	Left	Side	0.159	0.159	0.242	0.011	0.278	0.278		
Hotopot 10 mm	Right	Side	0.030	0.032	0.035	0.001	0.043	0.043		
Hotspot 10 mm	Тор	Side	0.079	0.439	0.509	0.011	0.274	0.509		
	Bottor	n Side								

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Sir	Simultaneous multi-band transmission (Up Antenna + WLAN)											
Tost	Position		2G	3G	4G	2.4	2.4GHz					
1631	1 OSITION		20	30	70	ВТ	WiFi	2.4GHz				
	Left	Cheek	0.776	0.826	0.457	0.133	0.389	1.215				
Head	Leit	Tilt 15°	0.954	0.818	1.038	0.133	0.293	1.331				
пеац	Right	Cheek	0.929	1.123	1.039	0.133	0.348	1.471				
		Tilt 15°	0.862	1.117	1.052	0.133	0.403	1.520				
Hotspot &Body-	Phantom	Side	0.740	0.517	0.535	0.066	0.231	0.971				
worn 10 mm	Ground	Side	0.547	0.326	0.346	0.066	0.179	0.726				
	Left Si	de	0.451	0.281	0.278	0.066	0.009	0.517				
Hotonot 10 mm	Right Side		0.298	0.096	0.043	0.066	0.023	0.364				
Hotspot 10 mm	Top Si	de	0.818	0.404	0.509	0.066	0.432	1.250				
	Bottom :	Side				0.066		0.084				

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Table14.2 Simultaneous transmission SAR (WWAN Down Antenna +WLAN)

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Standal	one SAR f	or 2G(V	N/Kg) Do	wn Ante	nna
Toot	Position		GSM	GSM	Highest
lest	FOSITION		850	1900	SAR
	Left	Cheek	0.146	0.096	0.146
Head	Leit	Tilt 15°	0.113	0.087	0.113
пеац		Cheek	0.178	0.155	0.178
	Right	Tilt 15°	0.133	0.067	0.133
Hotspot &Body-	Phantom	Side	0.299	0.338	0.338
worn 10 mm	Ground	Side	0.567	0.387	0.567
	Left Si	de	0.111	0.139	0.139
Hotopot 10 mm	Right Side			0.332	0.480
Hotspot 10 mm	Top Si	de			
	Bottom	Side	0.535	0.083	0.535

	Standal	one SA	R for 3G	(W/Kg) D	own Anto	enna
Toot	Position		WCDMA	WCDMA	WCDMA	Highoot CAD
lest	Position		Band II	Band IV	Band V	Highest SAR
	Left	Cheek	0.271	0.270	0.142	0.271
Head	Leit	Tilt 15°	0.119	0.206	0.078	0.206
neau	Right	Cheek	0.286	0.345	0.185	0.345
		Tilt 15°	0.134	0.180	0.106	0.180
Hotspot &Body-	Phantom	Side	0.264	0.408	0.353	0.408
worn 10 mm	Ground	Side	0.356	0.314	0.301	0.356
	Left Si	de	0.181	0.206	0.001	0.206
Hotonot 10 mm	Right S	ide	0.175	0.331	0.181	0.331
Hotspot 10 mm	Top Si	de			-	
	Bottom	Side	0.012	0.034	0.348	0.348

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Standalone SAR for 4G (W/Kg) Down Antenna											
Test Pos	Test Position			LTE Band 5	LTE Band7	LTE Band 12	LTE Band 66	Highest SAR			
	1 - 44	Cheek	0.182	0.187	0.240	0.127	0.520	0.520			
Head	Left	Tilt 15°	0.179	0.098	0.200	0.090	0.416	0.416			
Head	Right	Cheek	0.280	0.217	0.097	0.134	0.710	0.710			
		Tilt 15°	0.140	0.103	0.258	0.081	0.412	0.412			
Hotspot &Body- worn	Phanto	m Side	0.451	0.332	0.228	0.166	0.517	0.517			
10 mm	Groun	d Side	0.609	0.241	0.245	0.186	0.453	0.609			
	Left	Side	0.162	0.135	0.284	0.136	0.342	0.342			
	Right	Side	0.308	0.294	0.095	0.271	0.493	0.493			
Hotspot 10 mm	Тор	Side									
	Botton	n Side	0.899	0.295	0.524	0.077	0.190	0.899			

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Simo	Simultaneous multi-band transmission (Down Antenna + WLAN)											
Toot	Position		2G	3G	4G	2.4GHz		SUM				
Test				36	40	ВТ	WiFi	2.4GHz				
	l oft	Cheek	0.271	0.271	0.520	0.133	0.389	0.909				
Head	Left	Tilt 15°	0.206	0.206	0.416	0.133	0.293	0.709				
Head	Right	Cheek	0.345	0.345	0.710	0.133	0.348	1.058				
		Tilt 15°	0.180	0.180	0.412	0.133	0.403	0.815				
Hotspot &Body-	Phantom	Side	0.408	0.408	0.517	0.066	0.231	0.748				
worn 10 mm	Ground	Side	0.356	0.356	0.609	0.066	0.179	0.788				
	Left Si	de	0.206	0.206	0.342	0.066	0.009	0.408				
Right S		ide	0.331	0.331	0.493	0.066	0.023	0.559				
Hotspot 10 mm	Top Si	de				0.066	0.432	0.432				
	Bottom :	Side	0.348	0.348	0.899	0.066		0.983				



According to the conducted power measurement result, we can draw the conclusion that: stand-alone SAR for WiFi should be performed. Then, simultaneous transmission SAR for WiFi/BT is considered with measurement results of GSM/WCDMA/LTE and WiFi/BT. According to the above table, the sum of reported SAR values for GSM/WCDMA/LTE and WiFi<1.6W/kg. So the simultaneous transmission SAR is not required for WiFi/BT transmitter.

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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.

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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; steps2) 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.

Table 15.1: SAR Measurement Variability for Head Value (1g)

Freq	uency	Configuration	Test	Original SAR	First Repeated	The Detic	
MHz	Ch.	Configuration	Position	(W/kg)	SAR (W/kg)	The Ratio	
836.6	190	GSM850	Right	0.817	0.839	1.027	
826.4	4132	Band V	Right	0.937	0.945	1.009	
826.4	4132	Band V	Right	0.937	0.94	1.003	
829	20450	QPSK_10MHz_1RB_ 25 offset Low	Right	0.939	0.942	1.003	
2535	21100	QPSK_20MHz_1RB_ 50 offset Middle	Right	1.04	1.02	1.020	
1720	132072	QPSK_20MHz_1RB_ 50 offset Low	Right	0.906	0.839	1.080	

Table 15.2: SAR Measurement Variability for Body Value (1g)

					, , , , , , , , , , , , , , , , , , , ,			
	Frequency		Configuration	Test	Original SAR	First Repeated	The Ratio	
	MHz	Ch.	Configuration	Position	(W/kg)	SAR (W/kg)	THE RATIO	
	1860	18700	QPSK_20MHz_1RB_	Toward	0.811	0.795	1.020	
	1000	16700	50 offset Low	Bottom	0.011	0.811 0.795	U.O I I	1.020

Note: According to the KDB 865664 D01repeated measurement is not required when the original highest measured SAR is < 0.8 W/kg.

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16. Measurement Uncertainty

Measurement uncertainty for 750 MHz to 3 GHz averaged over 1 gram

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weasurement und	Measurement uncertainty for 750 MHz to 3 GHz averaged over 1 gram						
Uncertainty Component	Uncertainty	Prob.	Div.	C _{i (1g)}	Std. Unc. (1-g)	V _i or Veff	
Measurement System							
Probe Calibration (k=1)	5.4	Normal	2	1	5.40	∞	
Probe Isotropy	4.70	Rectangular	√3	0.7	1.90	∞	
Modulation Response	2.40	Rectangular	√3	1	1.39	∞	
Hemispherical Isotropy	2.60	Rectangular	√3	0.7	1.05	∞	
Boundary Effect	1.00	Rectangular	√3	1	0.58	∞	
Linearity	4.70	Rectangular	√3	1	2.71	∞	
System Detection Limit	1.00	Rectangular	√3	1	0.58	∞	
Readout Electronics	0.30	Normal	1	1	0.30	∞	
Response Time	0.80	Rectangular	√3	1	0.46	∞	
Integration Time	2.60	Rectangular	√3	1	1.50	∞	
RF Ambient Noise	0.00	Rectangular	√3	1	0.00	∞	
RF Ambient Reflections	0.00	Rectangular	√3	1	0.00	∞	
Probe Positioner	0.40	Rectangular	√3	1	0.23	∞	
Probe Positioning	2.90	Rectangular	√3	1	1.67	∞	
Post-processing	1.00	Rectangular	√3	1	0.58	∞	
Test sample Related							
Test sample Positioning	1.2	Normal	1	1	1.2	5	
Device Holder Uncertainty	3.2	Normal	1	1	3.2	71	
Power drift	5	Rectangular	√3	1	2.89	∞	
Power Scaling	0	Rectangular	√3	1	0.00	∞	
Phantom and Tissue Parame	ters						
Phantom Uncertainty	4	Rectangular	√3	1	2.31	∞	
SAR correction	1.9	Rectangular	√3	1	1.10	∞	
Liquid Conductivity (meas)	4.19	Rectangular	1	0.78	3.27	∞	
Liquid Permittivity (meas)	4.4	Rectangular	1	0.26	1.14	∞	
Temp. unc Conductivity	0.18	Rectangular	√3	0.78	0.08	∞	
Temp. unc Permittivity	0.54	Rectangular	√3	0.23	0.07	∞	
Combined Std.		RSS			0.20		
Uncertainty		RSS			9.39		
Expanded STD Uncertainty		<i>k</i> =2			18. 77%		

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System check uncertainty for 750 MHz to 3 GHz averaged over 1 gram

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System check uncertainty for 750 MHz to 3 GHz averaged over 1 gram						
Uncertainty Component	Uncertainty	Prob.	Div.	C _{i (1g)}	Std. Unc. (1-g)	V _i or Veff
Measurement System						
Probe Calibration (k=1)	5.40	Normal	1	1	5.40	∞
Probe Isotropy	4.70	Rectangular	√3	0.7	1.90	∞
Modulation Response	2.40	Rectangular	√3	1	1.39	∞
Hemispherical Isotropy	2.60	Rectangular	√3	0.7	1.05	∞
Boundary Effect	1.00	Rectangular	√3	1	0.58	∞
Linearity	4.70	Rectangular	√3	1	2.71	∞
System Detection Limit	1.00	Rectangular	√3	1	0.58	∞
Readout Electronics	0.30	Normal	1	1	0.30	∞
Response Time	0.80	Rectangular	√3	1	0.46	∞
Integration Time	2.60	Rectangular	√3	1	1.50	∞
RF Ambient Noise	0.00	Rectangular	√3	1	0.00	∞
RF Ambient Reflections	0.00	Rectangular	√3	1	0.00	∞
Probe Positioner	0.40	Rectangular	√3	1	0.23	∞
Probe Positioning	2.90	Rectangular	√3	1	1.67	∞
Post-processing	1.00	Rectangular	√3	1	0.58	∞
Field source						
Deviation of the						
experimental source	5.5	Normal	1	1	5.5	∞
from numerical source						
Source to liquid	2	Rectangular	√3	1	1.15	∞
distance	2	Rectangular		1	1.13	
Power drift	5	Rectangular	√3	1	2.89	∞
Phantom and Tissue Parame	ters					
Phantom Uncertainty	4	Rectangular	√3	1	2.31	∞
SAR correction	1.9	Rectangular	√3	1	1.10	∞
Liquid Conductivity (meas)	4.19	Normal	1	0.78	3.27	∞
Liquid Permittivity (meas)	4.4	Normal	1	0.26	1.14	∞
Temp. unc Conductivity	0.18	Rectangular	√3	0.78	0.08	∞
Temp. unc Permittivity	0.54	Rectangular	√3	0.23	0.07	∞
Combined Std.		RSS			10.39	
Uncertainty		ROO			10.39	
Expanded STD Uncertainty		<i>k</i> =2			20.79%	

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17. Main Test Instrument

Table 17.1: List of Main Instruments

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No.	Name	Туре	Serial Number	Calibration Date	Valid Period
01	Network analyzer	N5242A	MY51221755	Dec 25, 2017	1 year
02	Power meter	NRVD	102257		1 year
03	Power sensor	NRV-Z5	100241	May 11, 2018	
03			100644		
04	Signal Generator	E4438C	MY49072044	May 11, 2018	1 Year
05	Amplifier	NTWPA-0086010F	12023024	No Calibration Ro	equested
06	Coupler	778D	MY4825551	May 11, 2018	1 year
07	BTS	E5515C	MY50266468	Dec 25, 2017	1 year
08	BTS	MT8820C	6201240338	May 11, 2018	1 year
09	E-field Probe	ES3DV3	3252	Aug 31, 2017	1 year
09				Sep 4, 2018	1 year
10	DAE	SPEAG DAE4	1244	Dec 4,2017	1 year
	Dipole Validation Kit	SPEAG D750V3	1144	Aug 03,2015	3 year
		SPEAG D835V2	4d112	Oct 22, 2015	3 year
11		SPEAG D1750V2	1044	Nov. 3,2015	3 year
11		SPEAG D1900V2	5d151	Dec 6,2017	1 year
		SPEAG D2450V2	858	Oct 30,2015	3 year
		SPEAG D2600V2	1031	Oct 30,2015	3 year

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ANNEX A. Highest SAR GRAPH RESULTS

Fig.1 GSM850 Right Cheek Middle Repeated

Date/Time: 2018/9/20 Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 0.935$ S/m; $\varepsilon_r = 42.671$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: GSM Professional 850MHz; Frequency: 836.6 MHz; Duty

Cycle: 1:8.3

Probe: ES3DV3 - SN3252ConvF(6.36, 6.36, 6.36); Calibrated: 9/4/2018

GSM850 Right Cheek Middle Repeated/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.978 W/kg

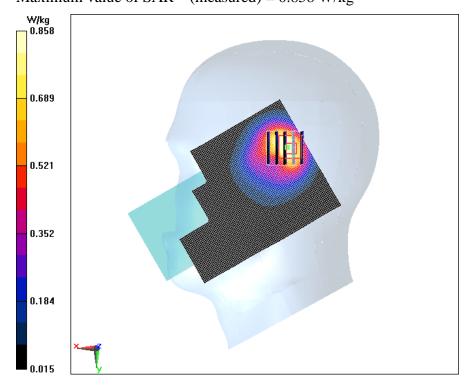
GSM850 Right Cheek Middle Repeated/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.84 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.413 W/kgMaximum value of SAR (measured) = 0.858 W/kg





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Fig.2 GSM850 4TS Top Mode Middle

Date/Time: 2018/9/13 Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 1.001$ S/m; $\varepsilon_r = 56.687$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: GSM 850MHz GPRS 4TS (0); Frequency: 836.6 MHz;

Duty Cycle: 1:2

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

GSM850 4TS Top Mode Middle/Area Scan (31x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.748 W/kg

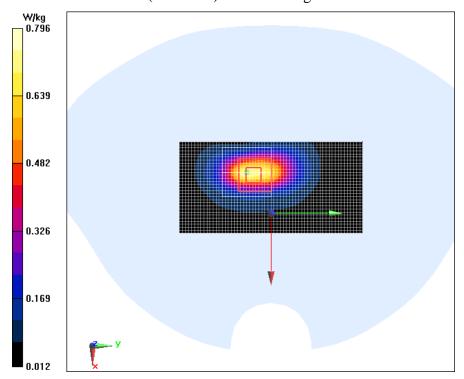
GSM850 4TS Top Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 19.02 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.734 W/kg; SAR(10 g) = 0.352 W/kg

Maximum of SAR (measured) = 0.796 W/kg



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Fig.3 GSM1900 Right Cheek Middle

Date/Time: 2018/9/11

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.293$ S/m; $\varepsilon_r = 41.918$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: GSM Professional 1900MHz; Frequency: 1880 MHz;

Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3252ConvF(5.18, 5.18, 5.18); Calibrated: 9/4/2018

GSM1900 Right Cheek Middle/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.936 W/kg

GSM1900 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 13.34 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.381 W/kg

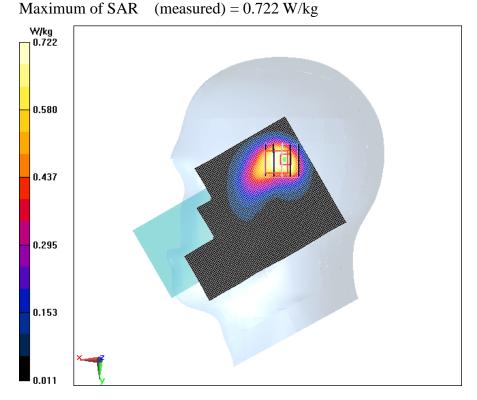




Fig.4 GSM1900 4TS Phantom Mode Middle

Date/Time: 2018/9/15

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.479$ S/m; $\varepsilon_r = 51.996$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: GSM 1900MHz GPRS 4TS (0); Frequency: 1880 MHz;

Duty Cycle: 1:2

Probe: ES3DV3 - SN3252ConvF(4.77, 4.77, 4.77); Calibrated: 9/4/2018

GSM1900 4TS Phantom Mode Middle/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.725 W/kg

GSM1900 4TS Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.058 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.808 W/kg

SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.265 W/kgMaximum value of SAR (measured) = 0.536 W/kg

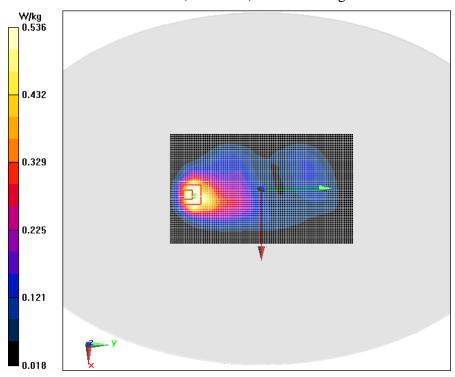




Fig.5 WCDMA Band 2 Right Cheek Middle

Date/Time: 2018/9/11

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.293 \text{ S/m}$; $\varepsilon_r = 41.918$; $\rho = 1000 \text{ kg/m}^3$

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional Band II; Frequency: 1880 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.18, 5.18, 5.18); Calibrated: 9/4/2018

WCDMA Band 2 Right Cheek Middle/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.797 W/kg

WCDMA Band 2 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.97 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.382 W/kgMaximum value of SAR (measured) = 0.698 W/kg

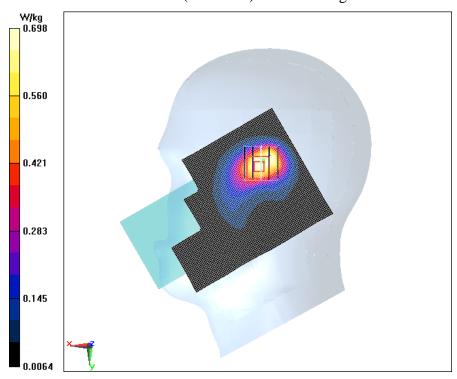




Fig.6WCDMA Band 2 Ground Mode Middle

Date/Time: 2018/9/15

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.479 \text{ S/m}$; $\varepsilon_r = 51.996$; $\rho = 1000 \text{ kg/m}^3$

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional Band II; Frequency: 1880 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.77, 4.77, 4.77); Calibrated: 9/4/2018

WCDMA Band 2 Ground Mode Middle/Area Scan (61x111x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.156 W/kg

WCDMA Band 2 Ground Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.490 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.217 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.096 W/kgMaximum value of SAR (measured) = 0.152 W/kg

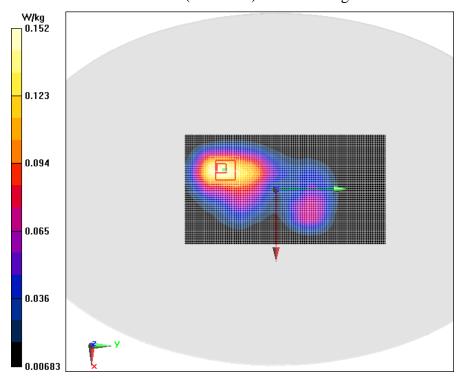




Fig.7WCDMA Band 4 Right Cheek Low

Date/Time: 2018/9/10 Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 1712.4 MHz; $\sigma = 1.299$ S/m; $\varepsilon_r = 41.015$;

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 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional 1800MHz; Frequency: 1712.4

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.39, 5.39, 5.39); Calibrated: 9/4/2018

WCDMA Band 4 Right Cheek Low/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 1.04 W/kg

WCDMA Band 4 Right Cheek Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.51 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.455 W/kg

Maximum of SAR (measured) = 0.832 W/kg

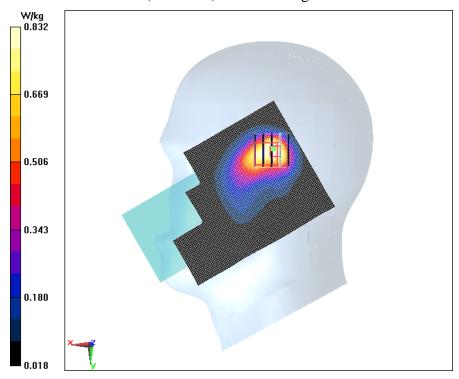




Fig.8 WCDMA Band 4 Phantom Mode Middle

Date/Time: 2018/9/13 Electronics: DAE4 Sn1244

Medium parameters used: f = 1733 MHz; $\sigma = 1.402$ S/m; $\varepsilon_r = 55.189$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional 1800MHz; Frequency: 1732.6

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.99, 4.99, 4.99); Calibrated: 9/4/2018

WCDMA Band 4 Phantom Mode Middle/Area Scan (61x111x1):

Measurement grid: dx=10 mm, dy=10 mm

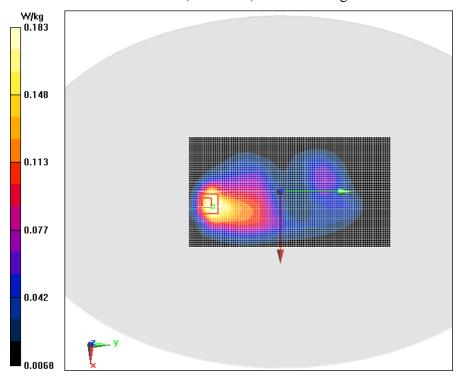
Maximum value of SAR (Measurement) = 0.230 W/kg

WCDMA Band 4 Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.005 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.093 W/kgMaximum value of SAR (measured) = 0.183 W/kg





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Fig.9 WCDMA Band5 Right Cheek Low Repeated

Date/Time: 2018/9/20

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.931$ S/m; $\varepsilon_r = 43.056$; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional Band V; Frequency: 826.4 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.36, 6.36, 6.36); Calibrated: 9/4/2018 **WCDMA Band5 Right Cheek Low Repeated/Area Scan (101x61x1):**

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 1.00 W/kg

WCDMA Band5 Right Cheek Low Repeated/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.53 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.945 W/kg; SAR(10 g) = 0.481 W/kgMaximum value of SAR (measured) = 1.10 W/kg

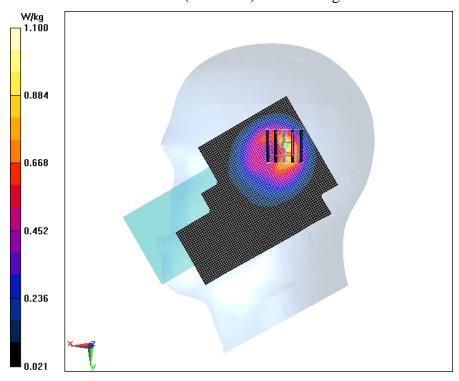




Fig.10 WCDMA Band5 Phantom Mode Middle

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 1.001$ S/m; $\varepsilon_r = 56.687$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 °C Liquid Temperature:22.5 °C

Communication System: WCDMA Professional 835MHz; Frequency: 836.6 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

WCDMA Band5 Phantom Mode Middle/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.494 W/kg

WCDMA Band5 Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.45 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.857 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.236 W/kgMaximum value of SAR (measured) = 0.471 W/kg

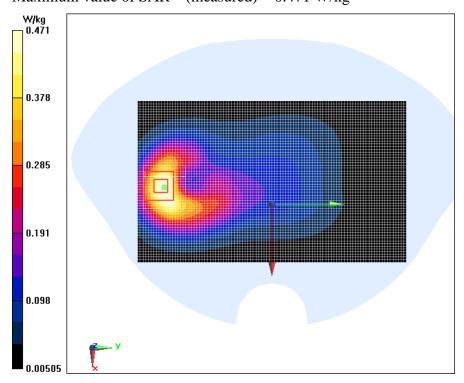




Fig.11 LTE Band 2 20M 1RB 50offset Right Cheek Low

Date/Time: 2018/9/11

Electronics: DAE4 Sn1244

Medium parameters used: f = 1860 MHz; $\sigma = 1.447 \text{ S/m}$; $\varepsilon_r = 40.493$; $\rho = 1000 \text{ kg/m}^3$

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 2 Professional 1800MHz; Frequency: 1860

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.18, 5.18, 5.18); Calibrated: 9/4/2018

LTE Band 2 20M 1RB 50offset Right Cheek Low/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.744 W/kg

LTE Band 2 20M 1RB 50offset Right Cheek Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.01 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.318 W/kg

Maximum of SAR (measured) = 0.638 W/kg

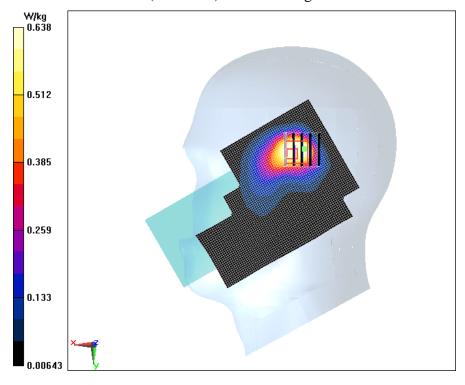




Fig.12 LTE Band 2 20M 1RB 50 offset Left Mode Low

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 1860 MHz; $\sigma = 1.457 \text{ S/m}$; $\varepsilon_r = 52.063$; $\rho = 1000 \text{ kg/m}^3$

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 2 Professional 1800MHz; Frequency: 1860

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.77, 4.77, 4.77); Calibrated: 9/4/2018 LTE Band 2 20M 1RB 50 offset Left Mode Low/Area Scan (41x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.136 W/kg

LTE Band 2 20M 1RB 50 offset Left Mode Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.812 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.076 W/kg

Maximum of SAR (measured) = 0.134 W/kg

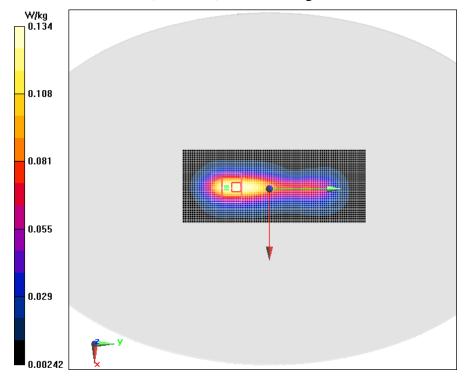




Fig.13 LTE Band 5 10M 1RB 25 offset Right Tilt Low Repeated

Date/Time: 2018/9/20

Electronics: DAE4 Sn1244

Medium parameters used: f = 829 MHz; $\sigma = 0.928$ S/m; $\varepsilon_r = 42.765$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 5 Professional 850MHz; Frequency: 829 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.36, 6.36, 6.36); Calibrated: 9/4/2018

LTE Band 5 10M 1RB 25 offset Right Tilt Low Repeated/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 1.08 W/kg

LTE Band 5 10M 1RB 25 offset Right Tilt Low Repeated/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.24 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 0.942 W/kg; SAR(10 g) = 0.440 W/kgMaximum value of SAR (measured) = 1.12 W/kg

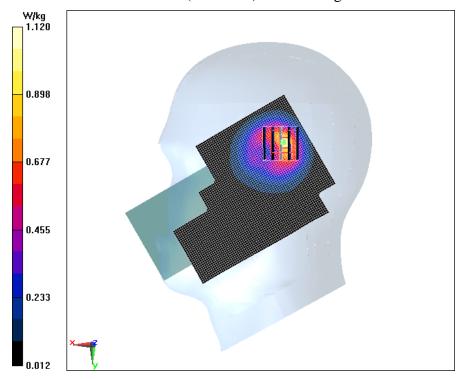




Fig.14 LTE Band 5 10M 1RB 25 offset Top Mode Middle

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 1.001$ S/m; $\varepsilon_r = 56.687$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 5 Professional 835MHz; Frequency: 836.5 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

LTE Band 5 10M 1RB 25 offset Top Mode Middle/Area Scan (31x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.637 W/kg

LTE Band 5 10M 1RB 25 offset Top Mode Middle/Zoom Scan (7x7x7)/Cube 0:

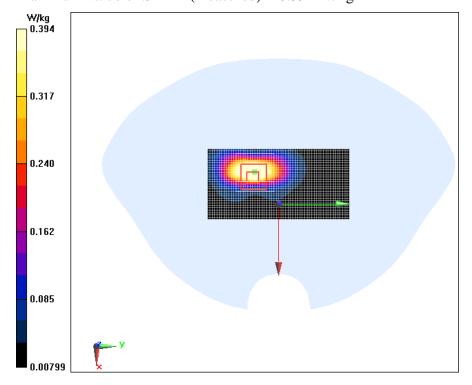
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.81 V/m; Power Drift = 1.05 dB

Peak SAR (extrapolated) = 0.833 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.394 W/kg





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Fig.15 LTE Band 7 20M 1RB 50 offset Right Tilt Middle

Date/Time: 2018/9/20 Electronics: DAE4 Sn1244

Medium parameters used: f = 2535 MHz; $\sigma = 1.906$ S/m; $\varepsilon_r = 40.132$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 7 Professional 2600MHz; Frequency: 2535

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.46, 4.46, 4.46); Calibrated: 9/4/2018

LTE Band 7 20M 1RB 50 offset Right Tilt Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 1.29 W/kg

LTE Band 7 20M 1RB 50 offset Right Tilt Middle/Zoom Scan (7x7x7)/Cube 0:

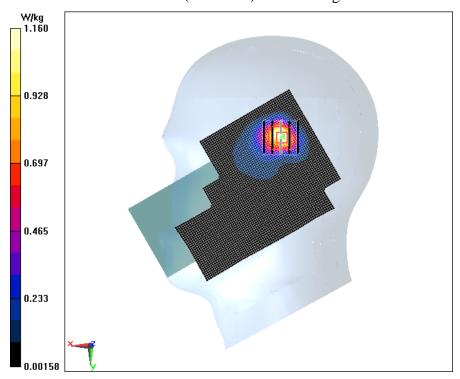
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.909 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.449 W/kg

Maximum value of SAR (measured) = 1.16 W/kg





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Fig.16 LTE Band 7 20M 1RB 50 offset Phantom Mode Middle

Date/Time: 2018/9/18 Electronics: DAE4 Sn1244

Medium parameters used: f = 2535 MHz; $\sigma = 2.031$ S/m; $\varepsilon_r = 54.546$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 7 Professional 2600MHz; Frequency: 2535

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.19, 4.19, 4.19); Calibrated: 9/4/2018

LTE Band 7 20M 1RB 50 offset Phantom Mode Middle/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.668 W/kg

LTE Band 7 20M 1RB 50 offset Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.880 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.261 W/kg

Maximum of SAR (measured) = 0.590 W/kg

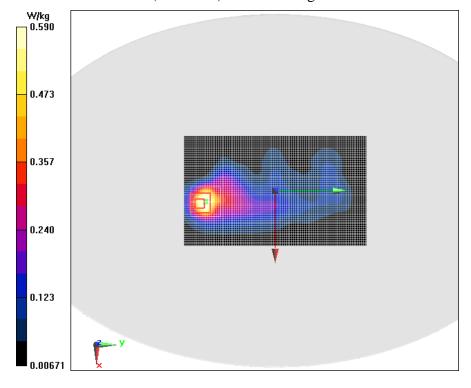




Fig.17 LTE Band 12 10M 1RB 25 offset Right Cheek Middle

Date/Time: 2018/7/29

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.84$ S/m; $\varepsilon_r = 42.183$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 12 Professional 750MHz; Frequency: 707.5

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.25, 6.25, 6.25); Calibrated: 8/31/2017

LTE Band 12 10M 1RB 25 offset Right Cheek Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.0870 W/kg

LTE Band 12 10M 1RB 25 offset Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.362 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.200 W/kg

SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.044 W/kg

Maximum of SAR (measured) = 0.0976 W/kg

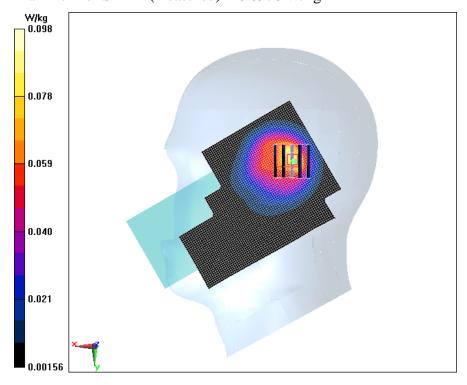




Fig.18LTE Band12 10M 1RB 25 offset Phantom Mode Middle

Date/Time: 2018/7/29

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.894$ S/m; $\varepsilon_r = 57.219$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 12 Professional 750MHz; Frequency: 707.5

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.34, 6.34, 6.34); Calibrated: 8/31/2017 LTE Band12 10M 1RB 25 offset Phantom Mode Middle 10mm/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.0147 W/kg

LTE Band12 10M 1RB 25 offset Phantom Mode Middle 10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.118 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0300 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.00827 W/kgMaximum value of SAR (measured) = 0.0157 W/kg

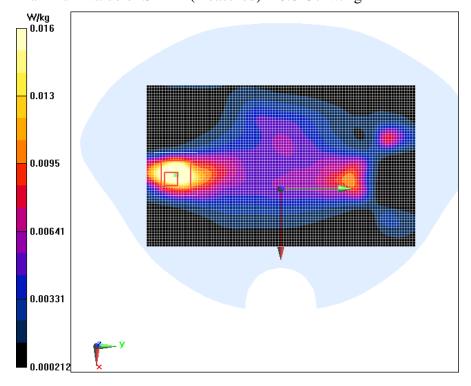




Fig.19 LTE Band 66 20M 1RB 50offset Right Tilt Low

Date/Time: 2018/9/10

Electronics: DAE4 Sn1244

Medium parameters used: f = 1720 MHz; $\sigma = 1.305$ S/m; $\varepsilon_r = 40.995$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 66 Professional 1800MHz; Frequency: 1720

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.39, 5.39, 5.39); Calibrated: 9/4/2018

LTE Band 66 20M 1RB 50offset Right Tilt Low/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

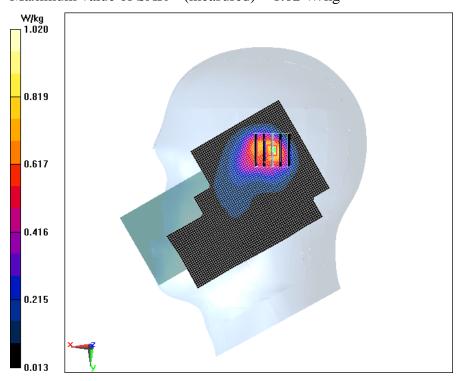
Maximum value of SAR (Measurement) = 0.897 W/kg

LTE Band 66 20M 1RB 50offset Right Tilt Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.75 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.906 W/kg; SAR(10 g) = 0.445 W/kgMaximum value of SAR (measured) = 1.02 W/kg





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Fig.20 LTE Band 66 20M 1RB 50offset Left Mode Low

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 1720 MHz; $\sigma = 1.389 \text{ S/m}$; $\varepsilon_r = 55.224$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 66 Professional 1800MHz; Frequency: 1720

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.99, 4.99, 4.99); Calibrated: 9/4/2018 LTE Band 66 20M 1RB 50offset Left Mode Low/Area Scan (41x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.301 W/kg

LTE Band 66 20M 1RB 50offset Left Mode Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.716 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.169 W/kgMaximum value of SAR (measured) = 0.292 W/kg

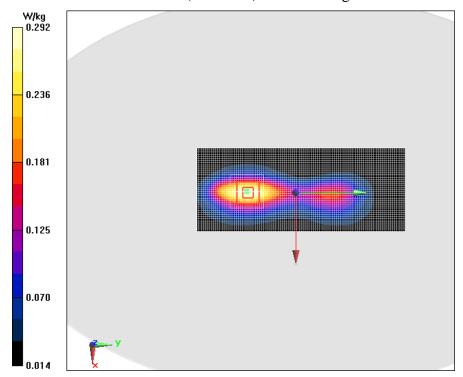




Fig.21 GSM850 Right Cheek Middle

Date/Time: 2018/9/20

Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 0.935$ S/m; $\varepsilon_r = 42.671$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: GSM Professional 850MHz; Frequency: 836.6 MHz; Duty

Cycle: 1:8.3

Probe: ES3DV3 - SN3252ConvF(6.51, 6.51, 6.51); Calibrated: 9/4/2018

GSM850 Right Cheek Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.168 W/kg

GSM850 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

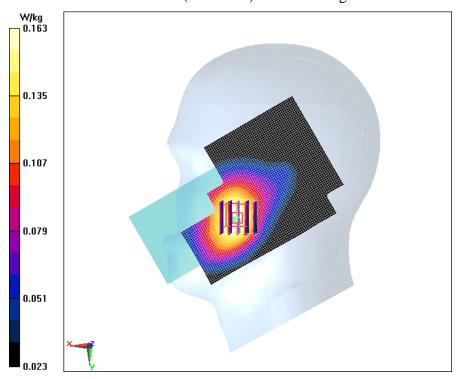
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.139 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.122 W/kg

Maximum value of SAR (measured) = 0.163 W/kg





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Fig.22 GSM850 4TS Ground Mode Middle

Date/Time: 2018/9/13 Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 1.001$ S/m; $\varepsilon_r = 56.687$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: GSM 835MHz GPRS 4TS (0); Frequency: 836.6 MHz;

Duty Cycle: 1:2

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

GSM850 4TS Ground Mode Middle/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.743 W/kg

GSM850 4TS Ground Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.81 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.146 W/kgMaximum value of SAR (measured) = 0.522 W/kg

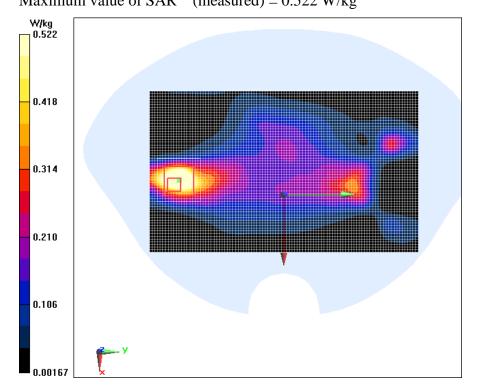




Fig.23 GSM1900 Right Cheek Middle

Date/Time: 2018/9/11

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.293$ S/m; $\varepsilon_r = 41.918$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 °C Liquid Temperature:22.5 °C

Communication System: GSM Professional 1900MHz; Frequency: 1880 MHz;

Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3252ConvF(5.18, 5.18, 5.18); Calibrated: 9/4/2018

GSM1900 Right Cheek Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

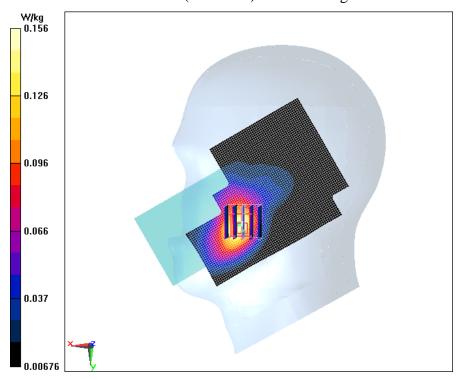
Maximum value of SAR (Measurement) = 0.156 W/kg

GSM1900 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 3.537 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.097 W/kgMaximum value of SAR (measured) = 0.156 W/kg





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Fig.24 GSM1900 4TS Ground Mode Middle

Date/Time: 2018/9/15

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.479$ S/m; $\varepsilon_r = 51.996$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 °C Liquid Temperature:22.5 °C

Communication System: GSM 1900MHz GPRS 4TS (0); Frequency: 1880 MHz;

Duty Cycle: 1:2

Probe: ES3DV3 - SN3252ConvF(4.77, 4.77, 4.77); Calibrated: 9/4/2018

GSM1900 4TS Ground Mode Middle/Area Scan (61x111x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.384 W/kg

GSM1900 4TS Ground Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.281 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.236 W/kgMaximum value of SAR (massyred) = 0.277 W/kg

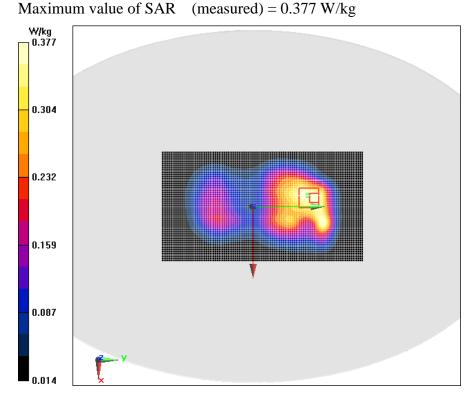




Fig.25 WCDMA Band 2 Right Cheek Middle

Date/Time: 2018/9/11

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.293 \text{ S/m}$; $\varepsilon_r = 41.918$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional Band II; Frequency: 1880 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.18, 5.18, 5.18); Calibrated: 9/4/2018

WCDMA Band 2 Right Cheek Middle/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.252 W/kg

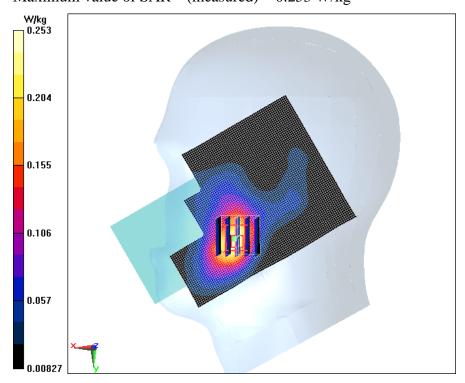
WCDMA Band 2 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.593 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.151 W/kgMaximum value of SAR (measured) = 0.253 W/kg



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Fig.26 WCDMA Band 2 Ground Mode Middle

Date/Time: 2018/9/15

Electronics: DAE4 Sn1244

Medium parameters used: f = 1880 MHz; $\sigma = 1.479 \text{ S/m}$; $\varepsilon_r = 51.996$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional Band II; Frequency: 1880 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.77, 4.77, 4.77); Calibrated: 9/4/2018

WCDMA Band 2 Ground Mode Middle/Area Scan (61x111x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.340 W/kg

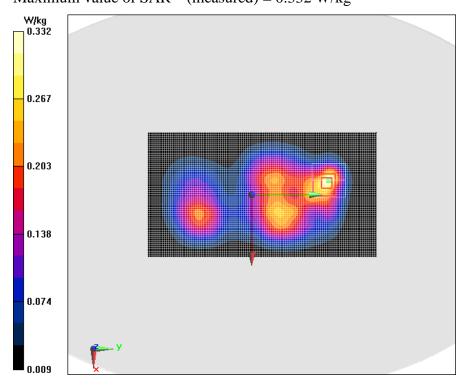
WCDMA Band 2 Ground Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.085 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.508 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.175 W/kgMaximum value of SAR (measured) = 0.332 W/kg





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Fig.27 WCDMA Band 4 Right Cheek Middle

Date/Time: 2018/9/10 Electronics: DAE4 Sn1244

Medium parameters used: f = 1733 MHz; $\sigma = 1.317$ S/m; $\varepsilon_r = 40.953$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional 1800MHz; Frequency: 1732.6

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.39, 5.39, 5.39); Calibrated: 9/4/2018

WCDMA Band 4 Right Cheek Middle/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.302 W/kg

WCDMA Band 4 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.883 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.191 W/kgMaximum value of SAR (measured) = 0.293 W/kg

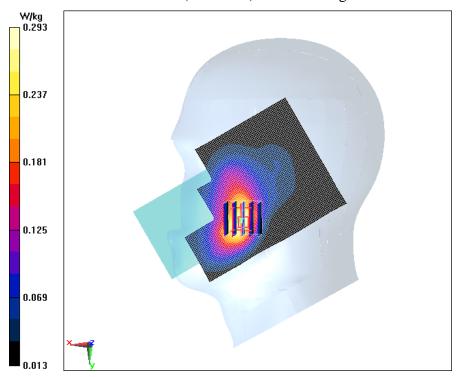




Fig.28 WCDMA Band 4 Phantom Mode Middle

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 1733 MHz; $\sigma = 1.402$ S/m; $\varepsilon_r = 55.189$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional 1800MHz; Frequency: 1732.6

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.99, 4.99, 4.99); Calibrated: 9/4/2018

WCDMA Band 4 Phantom Mode Middle/Area Scan (61x111x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.380 W/kg

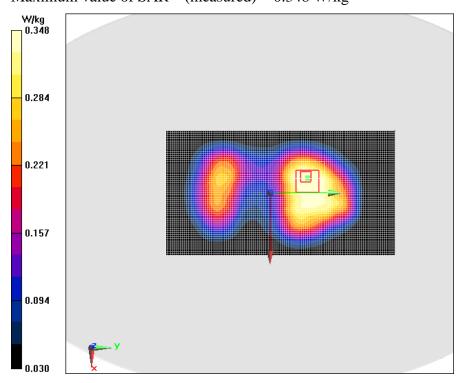
WCDMA Band 4 Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.011 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.247 W/kgMaximum value of SAR (measured) = 0.348 W/kg





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Fig.29 WCDMA Band5 Right Cheek Middle

Date/Time: 2018/9/20

Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 0.935$ S/m; $\varepsilon_r = 42.671$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: WCDMA Professional Band V; Frequency: 836.6 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.36, 6.36, 6.36); Calibrated: 9/4/2018

WCDMA Band5 Right Cheek Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.172 W/kg

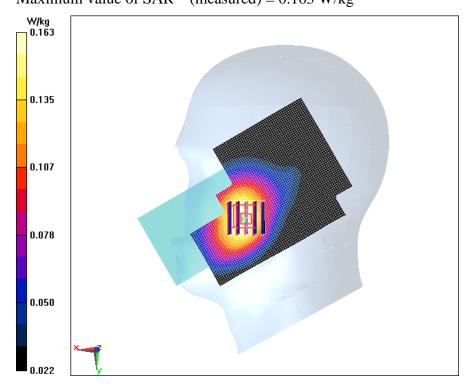
WCDMA Band5 Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.330 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.122 W/kgMaximum value of SAR (measured) = 0.163 W/kg





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Fig.30 WCDMA Band5 Phantom Mode Middle

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 837 MHz; $\sigma = 1.001$ S/m; $\varepsilon_r = 56.687$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 °C Liquid Temperature:22.5 °C

Communication System: WCDMA Professional 835MHz; Frequency: 836.6 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

WCDMA Band5 Phantom Mode Middle/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.317 W/kg

WCDMA Band5 Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.21 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.170 W/kg

Maximum of SAR (measured) = 0.321 W/kg

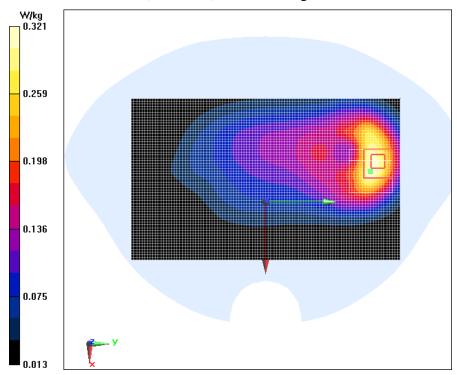




Fig.31 LTE Band 2 20M 1RB 50 offset Right Cheek Low

Date/Time: 2018/9/11

Electronics: DAE4 Sn1244

Medium parameters used: f = 1860 MHz; $\sigma = 1.447 \text{ S/m}$; $\varepsilon_r = 40.493$; $\rho = 1000 \text{ kg/m}^3$

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Ambient Temperature:22.5 °C Liquid Temperature:22.5 °C

Communication System: LTE Band 2 Professional 1800MHz; Frequency: 1860

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.18, 5.18, 5.18); Calibrated: 9/4/2018

LTE Band 2 20M 1RB 50 offset Right Cheek Low/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.269 W/kg

LTE Band 2 20M 1RB 50 offset Right Cheek Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.961 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.388 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.169 W/kgMaximum value of SAR (measured) = 0.282 W/kg

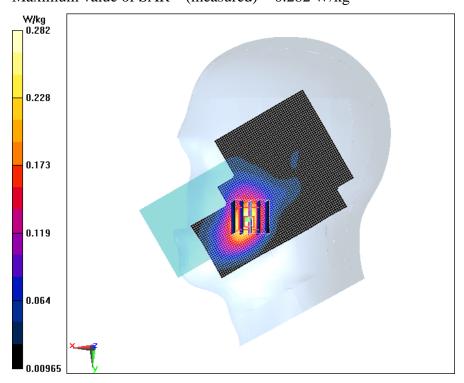




Fig.32 LTE Band 2 20M 1RB 50 offset Bottom Mode Low

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 1860 MHz; $\sigma = 1.457 \text{ S/m}$; $\varepsilon_r = 52.063$; $\rho = 1000 \text{ kg/m}^3$

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 2 Professional 1800MHz; Frequency: 1860

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.77, 4.77, 4.77); Calibrated: 9/4/2018

LTE Band 2 20M 1RB 50 offset Bottom Mode Low/Area Scan (31x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.988 W/kg

LTE Band 2 20M 1RB 50 offset Bottom Mode Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.48 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.461 W/kg

Maximum value of SAR (measured) = 0.888 W/kg

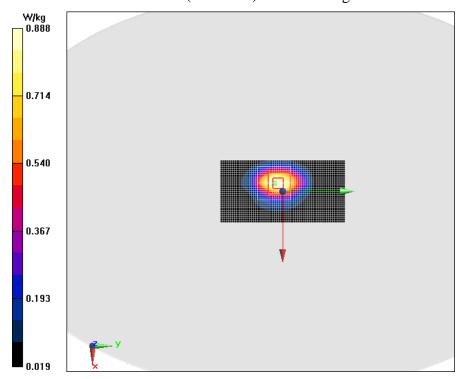




Fig.33 LTE Band 5 10M 1RB 25 offset Right Cheek Middle

Date/Time: 2018/9/20

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.935$ S/m; $\varepsilon_r = 42.671$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 5 Professional 850MHz; Frequency: 836.5 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.36, 6.36, 6.36); Calibrated: 9/4/2018

LTE Band 5 10M 1RB 25 offset Right Cheek Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.187 W/kg

LTE Band 5 10M 1RB 25 offset Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.327 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.184 W/kg

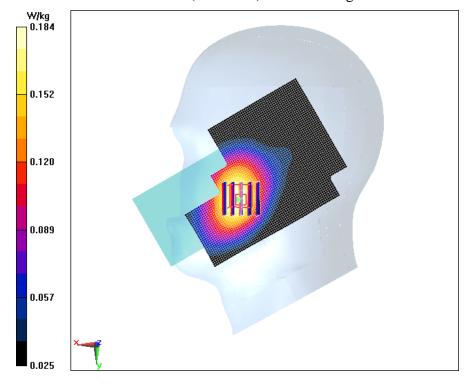




Fig.34 LTE Band 5 10M 1RB 25 offset Phantom Mode Middle

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 1.001$ S/m; $\varepsilon_r = 56.687$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5 °C Liquid Temperature: 22.5 °C

Communication System: LTE Band 5 Professional 835MHz; Frequency: 836.5 MHz;

Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

LTE Band 5 10M 1RB 25 offset Phantom Mode Middle/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.333 W/kg

LTE Band 5 10M 1RB 25 offset Phantom Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.58 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.331 W/kg

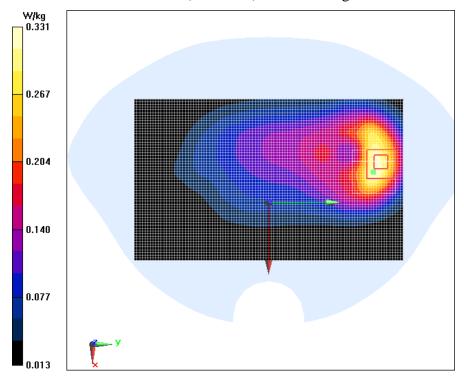




Fig.35 LTE Band 7 20M 1RB 50 offset Right Tilt Middle

Date/Time: 2018/9/20

Electronics: DAE4 Sn1244

Medium parameters used: f = 2535 MHz; $\sigma = 1.906$ S/m; $\varepsilon_r = 40.132$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 7 Professional 2600MHz; Frequency: 2535

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.46, 4.46, 4.46); Calibrated: 9/4/2018 LTE Band 7 20M 1RB 50 offset Right Tilt Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.281 W/kg

LTE Band 7 20M 1RB 50 offset Right Tilt Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.406 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.551 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.119 W/kgMaximum value of SAR (measured) = 0.280 W/kg

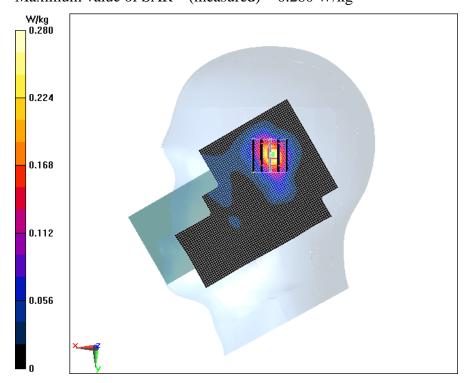




Fig.36 LTE Band 7 20M 1RB 50 offset Bottom Mode Middle

Date/Time: 2018/9/18 Electronics: DAE4 Sn1244

Medium parameters used: f = 2535 MHz; $\sigma = 2.031$ S/m; $\varepsilon_r = 54.546$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 7 Professional 2600MHz; Frequency: 2535

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.19, 4.19, 4.19); Calibrated: 9/4/2018

LTE Band 7 20M 1RB 50 offset Bottom Mode Middle/Area Scan (31x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.450 W/kg

LTE Band 7 20M 1RB 50 offset Bottom Mode Middle/Zoom Scan (7x7x7)/Cube

0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.822 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.204 W/kg

Maximum of SAR (measured) = 0.538 W/kg

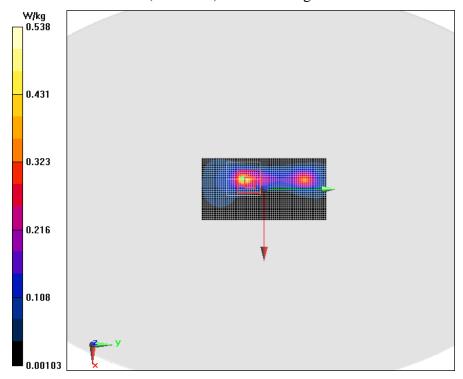




Fig.37 LTE Band 12 10M 1RB 25 offset Right Cheek Middle

Date/Time: 2018/7/29

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.84$ S/m; $\varepsilon_r = 42.183$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5 °C Liquid Temperature: 22.5 °C

Communication System: LTE Band 12 Professional 750MHz; Frequency: 707.5

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.25, 6.25, 6.25); Calibrated: 8/31/2017

LTE Band 12 10M 1RB 25 offset Right Cheek Middle/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.130 W/kg

LTE Band 12 10M 1RB 25 offset Right Cheek Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.527 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.146 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.128 W/kg

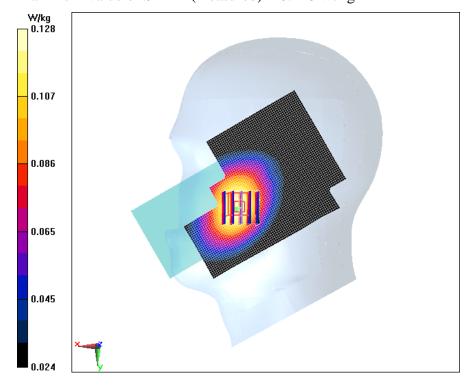




Fig.38 LTE Band12 10M 1RB 25 offset Right Mode Middle

Date/Time: 2018/7/29

Electronics: DAE4 Sn1244

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.894$ S/m; $\varepsilon_r = 57.219$; ρ

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 $= 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 12 Professional 750MHz; Frequency: 707.5

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.34, 6.34, 6.34); Calibrated: 8/31/2017

LTE Band12 10M 1RB 25 offset Right Mode Middle/Area Scan (41x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.260 W/kg

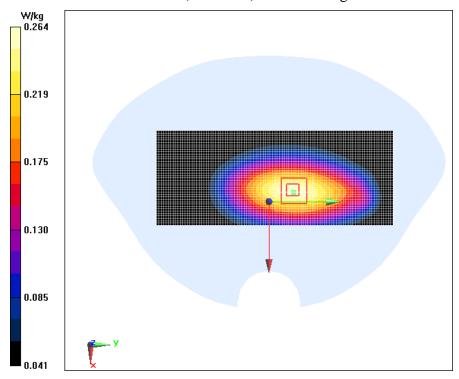
LTE Band12 10M 1RB 25 offset Right Mode Middle/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.61 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.344 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.179 W/kgMaximum value of SAR (measured) = 0.264 W/kg





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Fig.39 LTE Band 66 20M 1RB 50offset Right Cheek Low

Date/Time: 2018/9/10 Electronics: DAE4 Sn1244

Medium parameters used: f = 1720 MHz; $\sigma = 1.305 \text{ S/m}$; $\varepsilon_r = 40.995$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 66 Professional 1800MHz; Frequency: 1720

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.39, 5.39, 5.39); Calibrated: 9/4/2018

LTE Band 66 20M 1RB 50offset Right Cheek Low/Area Scan (101x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.757 W/kg

LTE Band 66 20M 1RB 50offset Right Cheek Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.328 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.446 W/kgMaximum value of SAR (measured) = 0.728 W/kg

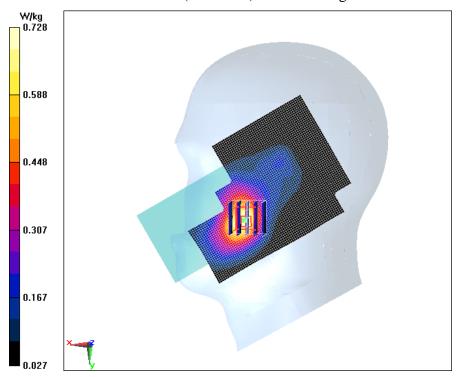




Fig. 40 LTE Band 66 20M 1RB 50offset Phantom Mode Low

Date/Time: 2018/9/13

Electronics: DAE4 Sn1244

Medium parameters used: f = 1720 MHz; $\sigma = 1.389$ S/m; $\varepsilon_r = 55.224$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: LTE Band 66 Professional 1800MHz; Frequency: 1720

MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.99, 4.99, 4.99); Calibrated: 9/4/2018

LTE Band 66 20M 1RB 50offset Phantom Mode Low/Area Scan (61x101x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 0.563 W/kg

LTE Band 66 20M 1RB 50offset Phantom Mode Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.33 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.361 W/kgMaximum value of SAR (measured) = 0.524 W/kg

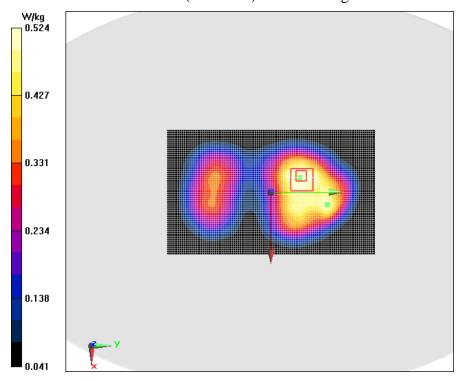




Fig.41 wifi Right Tilt Low

Date/Time: 2018/9/12

Electronics: DAE4 Sn1244

Medium parameters used: f = 2412 MHz; $\sigma = 1.825$ S/m; $\varepsilon_r = 39.105$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 °C Liquid Temperature:22.5 °C

Communication System: Wifi 2450 2600MHz; Frequency: 2412 MHz; Duty Cycle:

1:1

Probe: ES3DV3 - SN3252ConvF(4.74, 4.74, 4.74); Calibrated: 9/4/2018

wifi Right Tilt Low/Area Scan (111x71x1):

Measurement grid: dx=10 mm, dy=10 mm

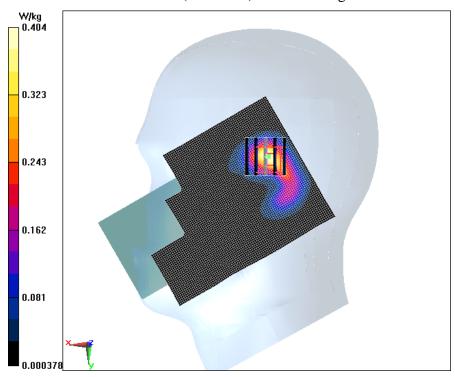
Maximum value of SAR (Measurement) = 0.410 W/kg

wifi Right Tilt Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.54 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.173 W/kgMaximum value of SAR (measured) = 0.404 W/kg





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Fig.42 WIFI Top Mode Low

Date/Time: 2018/9/12

Electronics: DAE4 Sn1244

Medium parameters used: f = 2412 MHz; $\sigma = 1.879$ S/m; $\varepsilon_r = 54.872$; $\rho = 1000$ kg/m³

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: Wifi 2450 2600MHz; Frequency: 2412 MHz; Duty Cycle:

1:1

Probe: ES3DV3 - SN3252ConvF(4.41, 4.41, 4.41); Calibrated: 9/4/2018

WIFI Top Mode Low/Area Scan (31x61x1):

Measurement grid: dx=10 mm, dy=10 mm

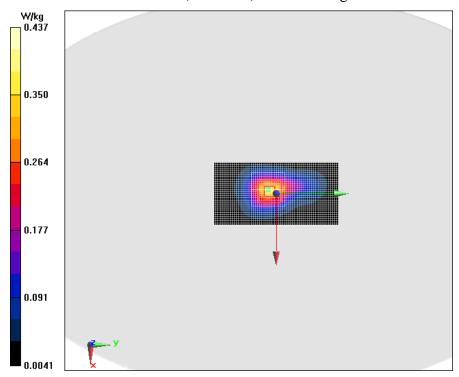
Maximum value of SAR (Measurement) = 0.374 W/kg

WIFI Top Mode Low/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 14.92 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.203 W/kgMaximum value of SAR (measured) = 0.437 W/kg





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ANNEX B. SYSTEM VALIDATION RESULTS

Head 750MHz

Date/Time: 2018/7/29

Electronics: DAE4 Sn1244

Medium parameters used: f = 750 MHz; $\sigma = 0.878 \text{ S/m}$; $\varepsilon_r = 41.565$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: CW 750MHz; Frequency: 750 MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.25, 6.25, 6.25); Calibrated: 8/31/2017

System Validation/Area Scan (71x131x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 2.21 W/kg

System Validation/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

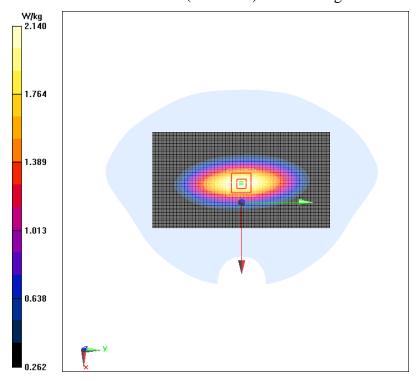
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.10 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (measured) = 2.14 W/kg





Body 750MHz

Date/Time: 2018/7/29 Electronics: DAE4 Sn1244

Medium parameters used: f = 750 MHz; $\sigma = 0.936$ S/m; $\varepsilon_r = 56.721$; $\rho = 1000$ kg/m³

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Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: CW 750MHz; Frequency: 750 MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.34, 6.34, 6.34); Calibrated: 8/31/2017

System Validation/Area Scan (71x131x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 2.23 W/kg

System Validation/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

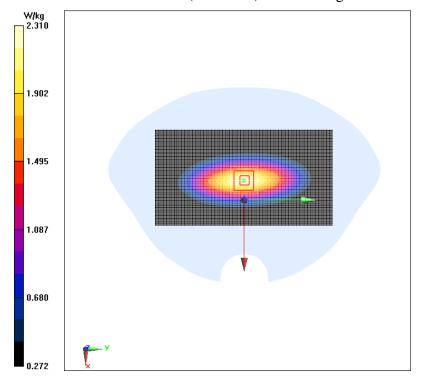
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.75 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.45 W/kg

Maximum value of SAR (measured) = 2.31 W/kg





Head 835MHz

Date/Time: 2018/9/20 Electronics: DAE4 Sn1244

Medium parameters used: f = 835 MHz; $\sigma = 0.933$ S/m; $\varepsilon_r = 42.694$; $\rho = 1000$ kg/m³

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Report Issued Date: Sep. 29, 2018

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: CW 900MHz; Frequency: 835 MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.36, 6.36, 6.36); Calibrated: 9/4/2018

System Validation/Area Scan (61x131x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 2.50 W/kg

System Validation/Zoom Scan (7x7x7)/Cube 0:

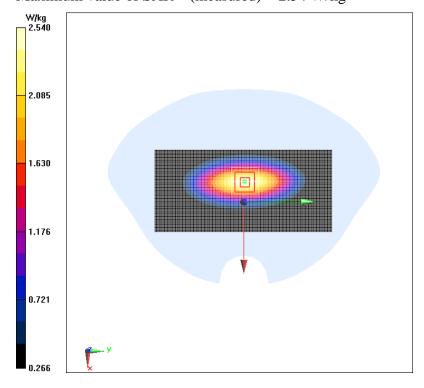
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.98 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 2.54 W/kg





Body 835MHz

Date/Time: 2018/9/13 Electronics: DAE4 Sn1244

Medium parameters used: f = 835 MHz; $\sigma = 0.998$ S/m; $\varepsilon_r = 56.705$; $\rho = 1000$ kg/m³

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Report Issued Date: Sep. 29, 2018

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: CW 835MHz; Frequency: 835 MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(6.29, 6.29, 6.29); Calibrated: 9/4/2018

System Validation/Area Scan (61x131x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 2.65 W/kg

System Validation/Zoom Scan (7x7x7)/Cube 0:

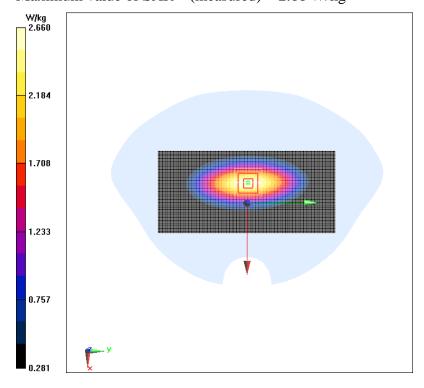
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.91 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.66 W/kg





Head 1750MHz

Date/Time: 2018/9/10 Electronics: DAE4 Sn1244

Medium parameters used: f = 1750 MHz; $\sigma = 1.334 \text{ S/m}$; $\varepsilon_r = 40.893$; $\rho = 1000 \text{ kg/m}^3$

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Report Issued Date: Sep. 29, 2018

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: CW 1800MHz; Frequency: 1750 MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(5.39, 5.39, 5.39); Calibrated: 9/4/2018

System check Validation/Area Scan (61x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 10.8 W/kg

System check Validation/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

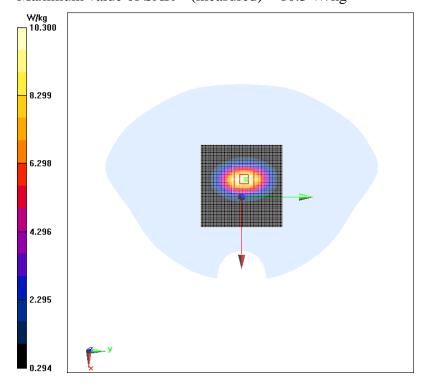
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.77 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 9.3 W/kg; SAR(10 g) = 5.08 W/kg

Maximum value of SAR (measured) = 10.3 W/kg





Body 1750MHz

Date/Time: 2018/9/13 Electronics: DAE4 Sn1244

Medium parameters used: f = 1750 MHz; $\sigma = 1.42$ S/m; $\varepsilon_r = 55.136$; $\rho = 1000$ kg/m³

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Report Issued Date: Sep. 29, 2018

Ambient Temperature:22.5 ℃ Liquid Temperature:22.5 ℃

Communication System: CW 1800MHz; Frequency: 1750 MHz; Duty Cycle: 1:1

Probe: ES3DV3 - SN3252ConvF(4.99, 4.99, 4.99); Calibrated: 9/4/2018

System check Validation/Area Scan (61x61x1):

Measurement grid: dx=10 mm, dy=10 mm

Maximum value of SAR (Measurement) = 10.7 W/kg

System check Validation/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.66 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.32 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 10.4 W/kg

