

Table 14.2-7: SAR Values (WCDMA 850 MHz Band - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4182	836.4	Left	Touch	/	22.52	23	0.369	0.41	0.674	0.75	0.04
4233	846.6	Left	Tilt	Fig.7	22.44	23	0.413	0.47	0.917	1.04	-0.12
4182	836.4	Left	Tilt	/	22.52	23	0.380	0.42	0.805	0.90	-0.01
4132	826.4	Left	Tilt	/	22.38	23	0.356	0.41	0.784	0.90	0.04
4182	836.4	Right	Touch	/	22.52	23	0.293	0.33	0.427	0.48	-0.02
4182	836.4	Right	Tilt	/	22.52	23	0.233	0.26	0.388	0.43	-0.07
4233	846.6	Left	Tilt	B2	22.44	23	0.401	0.46	0.854	0.97	0.06

Table 14.2-8: SAR Values (WCDMA 850 MHz Band - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Front	Fig.8	22.44	23	0.107	0.12	0.137	0.16	0.07
4182	836.4	Front	/	22.52	23	0.100	0.11	0.127	0.14	-0.01
4132	826.4	Front	/	22.38	23	0.082	0.09	0.108	0.12	0.05
4182	836.4	Rear	/	22.52	23	0.062	0.07	0.079	0.09	0.11
4182	836.4	Left	/	22.52	23	0.048	0.05	0.071	0.08	0.10
4182	836.4	Right	/	22.52	23	0.063	0.07	0.089	0.10	0.09
4182	836.4	Top	/	22.52	23	0.043	0.05	0.069	0.08	-0.04
4233	846.6	Front	B2	22.44	23	0.105	0.12	0.135	0.15	0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-9: SAR Values (WCDMA 850 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4182	836.4	Left	Touch	/	22.52	23	0.019	0.02	0.027	0.03	0.00
4182	836.4	Left	Tilt	/	22.52	23	0.007	0.01	0.010	0.01	0.01
4233	846.6	Right	Touch	Fig.9	22.44	23	0.025	0.03	0.032	0.04	0.05
4182	836.4	Right	Touch	/	22.52	23	0.020	0.02	0.029	0.03	0.00
4132	826.4	Right	Touch	/	22.38	23	0.016	0.02	0.023	0.03	0.00
4182	836.4	Right	Tilt	/	22.52	23	0.010	0.01	0.014	0.02	-0.05
4233	846.6	Right	Touch	B2	22.44	23	0.022	0.03	0.028	0.03	0.03

Table 14.2-10: SAR Values (WCDMA 850 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Front	/	22.44	23	0.033	0.04	0.048	0.05	0.13
4182	836.4	Front	Fig.10	22.52	23	0.039	0.04	0.049	0.05	0.00
4132	826.4	Front	/	22.38	23	0.026	0.03	0.037	0.04	0.01
4182	836.4	Rear	/	22.52	23	0.023	0.03	0.032	0.04	0.12
4182	836.4	Left	/	22.52	23	0.022	0.02	0.033	0.04	-0.02
4182	836.4	Right	/	22.52	23	0.026	0.03	0.039	0.04	-0.07
4182	836.4	Bottom	/	22.52	23	0.010	0.01	0.018	0.02	0.06
4182	836.4	Front	B2	22.52	23	0.028	0.03	0.040	0.04	0.02

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-11: SAR Values (WCDMA 1700 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Left	Touch	Fig.11	22.68	23.5	0.012	0.01	0.026	0.03	0.14
1412	1732.4	Left	Touch	/	22.58	23.5	0.010	0.01	0.022	0.03	0.11
1312	1712.4	Left	Touch	/	22.68	23.5	0.010	0.01	0.023	0.03	0.06
1412	1732.4	Left	Tilt	/	22.58	23.5	0.010	0.01	0.016	0.02	0.14
1412	1732.4	Right	Touch	/	22.58	23.5	0.007	0.01	0.014	0.02	0.09
1412	1732.4	Right	Tilt	/	22.58	23.5	0.005	0.01	0.010	0.01	0.12
1513	1752.6	Left	Touch	B2	22.68	23.5	0.011	0.01	0.024	0.03	0.18

Table 14.2-12: SAR Values (WCDMA 1700 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1513	1752.6	Front	Fig.12	22.68	23.5	0.147	0.18	0.295	0.36	-0.01
1412	1732.4	Front	/	22.58	23.5	0.142	0.18	0.294	0.36	-0.03
1312	1712.4	Front	/	22.68	23.5	0.125	0.15	0.252	0.30	0.14
1412	1732.4	Rear	/	22.58	23.5	0.037	0.05	0.070	0.09	0.07
1412	1732.4	Left	/	22.58	23.5	0.033	0.04	0.058	0.07	0.09
1412	1732.4	Right	/	22.58	23.5	0.025	0.03	0.049	0.06	0.02
1412	1732.4	Bottom	/	22.58	23.5	0.129	0.16	0.260	0.32	-0.03
1513	1752.6	Front	B2	22.68	23.5	0.143	0.17	0.289	0.35	0.07

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-13: SAR Values (WCDMA 1900 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C					Liquid Temperature: 22.1°C						
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9538	1907.6	Left	Touch	/	22.91	23.5	0.010	0.01	0.020	0.02	0.14
9400	1880	Left	Touch	Fig.13	22.99	23.5	0.010	0.01	0.023	0.03	0.09
9262	1852.4	Left	Touch	/	22.80	23.5	0.010	0.01	0.021	0.02	0.11
9400	1880	Left	Tilt	/	22.99	23.5	<0.01	<0.01	0.011	0.01	0.07
9400	1880	Right	Touch	/	22.99	23.5	<0.01	<0.01	0.011	0.01	0.06
9400	1880	Right	Tilt	/	22.99	23.5	<0.01	<0.01	0.010	0.01	0.05
9400	1880	Left	Touch	B2	22.99	23.5	0.010	0.01	0.020	0.02	0.12

Table 14.2-14: SAR Values (WCDMA 1900 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C					Liquid Temperature: 22.1°C					
Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9538	1907.6	Front	Fig.14	22.91	23.5	0.208	0.24	0.421	0.48	-0.13
9400	1880	Front	/	22.99	23.5	0.204	0.23	0.417	0.47	0.12
9262	1852.4	Front	/	22.80	23.5	0.174	0.20	0.355	0.42	0.09
9400	1880	Rear	/	22.99	23.5	0.062	0.07	0.122	0.14	0.18
9400	1880	Left	/	22.99	23.5	0.009	0.01	0.014	0.02	0.10
9400	1880	Right	/	22.99	23.5	0.009	0.01	0.010	0.01	0.17
9400	1880	Bottom	/	22.99	23.5	0.205	0.23	0.413	0.46	0.06
9538	1907.6	Front	B2	22.91	23.5	0.199	0.23	0.404	0.46	0.07

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.2-15: SAR Values (LTE Band2 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18700	1860	1RB_Low	Left	Touch	/	23.13	24	<0.01	<0.01	<0.01	<0.01	/
18700	1860	1RB_Low	Left	Tilt	/	23.13	24	<0.01	<0.01	<0.01	<0.01	/
18700	1860	1RB_Low	Right	Touch	/	23.13	24	<0.01	<0.01	0.015	0.02	0.03
18700	1860	1RB_Low	Right	Tilt	/	23.13	24	<0.01	<0.01	<0.01	<0.01	/
18700	1860	50RB_Low	Left	Touch	/	22.19	23	<0.01	<0.01	<0.01	<0.01	/
18700	1860	50RB_Low	Left	Tilt	/	22.19	23	<0.01	<0.01	<0.01	<0.01	/
18700	1860	50RB_Low	Right	Touch	/	22.19	23	<0.01	<0.01	0.010	0.01	0.15
18700	1860	50RB_Low	Right	Tilt	/	22.19	23	<0.01	<0.01	<0.01	<0.01	/
18700	1860	1RB_Low	Right	Touch	B2	23.13	24	<0.01	<0.01	0.014	0.02	0.01

Note1: The LTE mode is QPSK_20MHz.

Note2: The SAR value is too small to be plotted

Table 14.2-16: SAR Values (LTE Band2 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
18700	1860	1RB_Low	Front	Fig.16	23.13	24	0.196	0.24	0.399	0.49	-0.08
18700	1860	1RB_Low	Rear	/	23.13	24	0.057	0.07	0.107	0.13	0.06
18700	1860	1RB_Low	Left	/	23.13	24	0.045	0.05	0.073	0.09	-0.13
18700	1860	1RB_Low	Right	/	23.13	24	0.021	0.03	0.036	0.04	0.16
18700	1860	1RB_Low	Bottom	/	23.13	24	0.190	0.23	0.360	0.44	0.09
18700	1860	50RB_Low	Front	/	22.19	23	0.164	0.20	0.333	0.40	0.06
18700	1860	50RB_Low	Rear	/	22.19	23	0.047	0.06	0.085	0.10	-0.08
18700	1860	50RB_Low	Left	/	22.19	23	0.010	0.01	0.018	0.02	0.04
18700	1860	50RB_Low	Right	/	22.19	23	0.017	0.02	0.029	0.03	-0.11
18700	1860	50RB_Low	Bottom	/	22.19	23	0.164	0.20	0.321	0.39	0.09
18700	1860	1RB_Low	Front	B2	23.13	24	0.193	0.24	0.392	0.48	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-17: SAR Values(LTE Band4 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20300	1745	1RB_High	Left	Touch	/	23.40	24	<0.01	<0.01	0.009	0.01	0.01
20300	1745	1RB_High	Left	Tilt	/	23.40	24	<0.01	<0.01	0.008	0.01	-0.09
20300	1745	1RB_High	Right	Touch	/	23.40	24	<0.01	<0.01	0.013	0.01	0.04
20300	1745	1RB_High	Right	Tilt	/	23.40	24	<0.01	<0.01	0.007	0.01	0.19
20175	1732.5	50RB_High	Left	Touch	/	22.35	23	<0.01	<0.01	0.005	0.01	0.02
20175	1732.5	50RB_High	Left	Tilt	/	22.35	23	<0.01	<0.01	0.006	0.01	-0.17
20175	1732.5	50RB_High	Right	Touch	/	22.35	23	<0.01	<0.01	0.010	0.01	0.14
20175	1732.5	50RB_High	Right	Tilt	/	22.35	23	<0.01	<0.01	0.005	0.01	0.12
20300	1745	1RB_High	Right	Touch	B2	23.40	24	<0.01	<0.01	0.012	0.01	0.19

Note1: The LTE mode is QPSK_20MHz.

Note2: The SAR value is too small to be plotted

Table 14.2-18: SAR Values (LTE Band4 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20300	1745	1RB_High	Front	Fig.18	23.40	24	0.298	0.34	0.589	0.68	0.06
20300	1745	1RB_High	Rear	/	23.40	24	0.078	0.09	0.144	0.17	-0.03
20300	1745	1RB_High	Left	/	23.40	24	0.034	0.04	0.057	0.07	0.13
20300	1745	1RB_High	Right	/	23.40	24	0.011	0.01	0.015	0.02	-0.08
20300	1745	1RB_High	Bottom	/	23.40	24	0.039	0.04	0.077	0.09	0.14
20175	1732.5	50RB_High	Front	/	22.35	23	0.228	0.26	0.461	0.54	0.08
20175	1732.5	50RB_High	Rear	/	22.35	23	0.059	0.07	0.113	0.13	-0.02
20175	1732.5	50RB_High	Left	/	22.35	23	0.028	0.03	0.032	0.04	0.14
20175	1732.5	50RB_High	Right	/	22.35	23	0.009	0.01	0.012	0.01	0.09
20175	1732.5	50RB_High	Bottom	/	22.35	23	0.204	0.24	0.391	0.45	0.06
20300	1745	1RB_High	Front	B2	23.40	24	0.290	0.33	0.580	0.67	-0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-19: SAR Values (LTE Band5 - Head) – Top antenna

Ambient Temperature: 22.5°C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20600	844	1RB_High	Left	Touch	/	21.97	22.5	0.477	0.54	0.998	1.13	-0.06
20525	836.5	1RB_Low	Left	Touch	/	21.96	22.5	0.392	0.44	0.760	0.86	0.01
20450	829	1RB_Low	Left	Touch	/	22.18	22.5	0.463	0.50	0.956	1.03	-0.09
20600	844	1RB_High	Left	Tilt	Fig.19	21.97	22.5	0.453	0.51	1.09	1.23	0.05
20525	836.5	1RB_Low	Left	Tilt	/	21.96	22.5	0.393	0.45	0.939	1.06	0.03
20450	829	1RB_Low	Left	Tilt	/	22.18	22.5	0.375	0.40	0.880	0.95	0.05
20450	829	1RB_Low	Right	Touch	/	22.18	22.5	0.309	0.33	0.541	0.58	0.01
20450	829	1RB_Low	Right	Tilt	/	22.18	22.5	0.271	0.29	0.527	0.57	-0.04
20450	829	25RB_Low	Left	Touch	/	21.12	21.5	0.335	0.37	0.713	0.78	-0.01
20450	829	25RB_Low	Left	Tilt	/	21.12	21.5	0.303	0.33	0.714	0.78	0.02
20450	829	25RB_Low	Right	Touch	/	21.12	21.5	0.246	0.27	0.428	0.47	0.06
20450	829	25RB_Low	Right	Tilt	/	21.12	21.5	0.217	0.24	0.424	0.46	-0.03
20450	829	50RB	Left	Touch	/	21.11	21.5	0.329	0.36	0.676	0.74	-0.07
20450	829	50RB	Left	Tilt	/	21.11	21.5	0.313	0.34	0.750	0.82	-0.03
20600	844	1RB_High	Left	Tilt	B2	21.97	22.5	0.442	0.50	0.998	1.13	0.08

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-20: SAR Values (LTE Band5 - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Front	Fig.20	22.18	22.5	0.077	0.08	0.098	0.11	0.04
20450	829	1RB_Low	Rear	/	22.18	22.5	0.053	0.06	0.067	0.07	0.08
20450	829	1RB_Low	Left	/	22.18	22.5	0.049	0.05	0.063	0.07	0.05
20450	829	1RB_Low	Right	/	22.18	22.5	0.059	0.06	0.076	0.08	0.1
20450	829	1RB_Low	Top	/	22.18	22.5	0.027	0.03	0.035	0.04	0.14
20450	829	25RB_Low	Front	/	21.12	21.5	0.061	0.07	0.078	0.09	-0.11
20450	829	25RB_Low	Rear	/	21.12	21.5	0.042	0.05	0.054	0.06	0.07
20450	829	25RB_Low	Left	/	21.12	21.5	0.036	0.04	0.046	0.05	0.03
20450	829	25RB_Low	Right	/	21.12	21.5	0.047	0.05	0.061	0.07	-0.09
20450	829	25RB_Low	Top	/	21.12	21.5	0.045	0.05	0.058	0.06	0.17
20450	829	1RB_Low	Front	B2	22.18	22.5	0.065	0.07	0.083	0.09	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-21: SAR Values (LTE Band5 - Head) – Bottom antenna

Ambient Temperature: 22.5°C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Low	Left	Touch	/	22.18	22.5	0.021	0.02	0.030	0.03	0.08
20450	829	1RB_Low	Left	Tilt	/	22.18	22.5	0.018	0.02	0.032	0.03	0.11
20450	829	1RB_Low	Right	Touch	Fig.21	22.18	22.5	0.028	0.03	0.037	0.04	0.11
20450	829	1RB_Low	Right	Tilt	/	22.18	22.5	0.019	0.02	0.026	0.03	0.08
20450	829	25RB_Low	Left	Touch	/	21.12	21.5	0.017	0.02	0.024	0.03	0.04
20450	829	25RB_Low	Left	Tilt	/	21.12	21.5	0.016	0.02	0.032	0.03	0.19
20450	829	25RB_Low	Right	Touch	/	21.12	21.5	0.018	0.02	0.026	0.03	0.09
20450	829	25RB_Low	Right	Tilt	/	21.12	21.5	0.017	0.02	0.028	0.03	0.04
20450	829	1RB_Low	Right	Touch	B2	22.18	22.5	0.027	0.03	0.036	0.04	0.01

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-22: SAR Values (LTE Band5 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Front	/	22.18	22.5	0.037	0.04	0.047	0.05	-0.18
20450	829	1RB_Low	Rear	/	22.18	22.5	0.016	0.02	0.022	0.02	0.03
20450	829	1RB_Low	Left	/	22.18	22.5	0.030	0.03	0.045	0.05	-0.16
20450	829	1RB_Low	Right	Fig.22	22.18	22.5	0.040	0.04	0.057	0.06	-0.09
20450	829	1RB_Low	Bottom	/	22.18	22.5	0.012	0.01	0.020	0.02	0.10
20450	829	25RB_Low	Front	/	21.12	21.5	0.024	0.03	0.033	0.04	0.05
20450	829	25RB_Low	Rear	/	21.12	21.5	0.012	0.01	0.016	0.02	0.00
20450	829	25RB_Low	Left	/	21.12	21.5	0.024	0.03	0.035	0.04	0.15
20450	829	25RB_Low	Right	/	21.12	21.5	0.029	0.03	0.044	0.05	0.01
20450	829	25RB_Low	Bottom	/	21.12	21.5	0.010	0.01	0.016	0.02	0.05
20450	829	1RB_Low	Right	B2	22.18	22.5	0.033	0.04	0.048	0.05	0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-23: SAR Values (LTE Band7 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max.tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
21350	2560	1RB_High	Left	Touch	Fig.23	23.38	24	0.287	0.33	0.539	0.62	0.02
21350	2560	1RB_High	Left	Tilt	/	23.38	24	0.080	0.09	0.141	0.16	-0.06
21350	2560	1RB_High	Right	Touch		23.38	24	0.140	0.16	0.242	0.28	0.01
21350	2560	1RB_High	Right	Tilt	/	23.38	24	0.102	0.12	0.208	0.24	0.03
21350	2560	50RB_High	Left	Touch	/	22.23	23	0.219	0.26	0.412	0.49	-0.04
21350	2560	50RB_High	Left	Tilt	/	22.23	23	0.069	0.08	0.122	0.15	-0.02
21350	2560	50RB_High	Right	Touch	/	22.23	23	0.105	0.13	0.185	0.22	-0.07
21350	2560	50RB_High	Right	Tilt	/	22.23	23	0.076	0.09	0.155	0.19	0.02
21350	2560	1RB_High	Left	Touch	B2	23.38	24	0.276	0.32	0.482	0.56	0.01

Note1: The LTE mode is QPSK_20MHz.

Table 14.2-24: SAR Values (LTE Band7 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C Liquid Temperature: 22.1°C											
Frequency		Mode	Test Position	Figure No./ Note	Conducte d Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_High	Front	Fig.24	23.38	24	0.314	0.36	0.576	0.66	0.17
21350	2560	1RB_High	Rear	/	23.38	24	0.288	0.33	0.532	0.61	-0.12
21350	2560	1RB_High	Left	/	23.38	24	0.196	0.23	0.359	0.41	-0.11
21350	2560	1RB_High	Right	/	23.38	24	0.018	0.02	0.032	0.04	0.01
21350	2560	1RB_High	Bottom	/	23.38	24	0.204	0.24	0.424	0.49	0.12
21350	2560	50RB_High	Front	/	22.23	23	0.241	0.29	0.441	0.53	-0.16
21350	2560	50RB_High	Rear	/	22.23	23	0.225	0.27	0.413	0.49	0.14
21350	2560	50RB_High	Left	/	22.23	23	0.158	0.19	0.287	0.34	0.09
21350	2560	50RB_High	Right	/	22.23	23	0.014	0.02	0.026	0.03	0.04
21350	2560	50RB_High	Bottom	/	22.23	23	0.174	0.21	0.363	0.43	0.01
21350	2560	1RB_High	Front	B2	23.38	24	0.306	0.35	0.565	0.65	0.15

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.2-25: SAR Values (LTE Band12 - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23095	707.5	1RB_Low	Left	Touch	/	22.60	24	0.174	0.24	0.323	0.45	0.05
23095	707.5	1RB_Low	Left	Tilt	Fig.25	22.60	24	0.247	0.34	0.522	0.72	-0.06
23095	707.5	1RB_Low	Right	Touch	/	22.60	24	0.137	0.19	0.217	0.30	-0.01
23095	707.5	1RB_Low	Right	Tilt	/	22.60	24	0.142	0.20	0.244	0.34	0.08
23060	704	25RB_High	Left	Touch	/	21.66	23	0.137	0.19	0.250	0.34	0.10
23060	704	25RB_High	Left	Tilt	/	21.66	23	0.195	0.27	0.415	0.57	0.04
23060	704	25RB_High	Right	Touch	/	21.66	23	0.108	0.15	0.170	0.23	0.06
23060	704	25RB_High	Right	Tilt	/	21.66	23	0.110	0.15	0.115	0.16	-0.07
23095	707.5	1RB_Low	Left	Tilt	B2	22.60	24	0.232	0.32	0.514	0.71	-0.01

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-26: SAR Values (LTE Band12 - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23095	707.5	1RB_Low	Front	/	22.60	24	0.025	0.03	0.035	0.05	-0.01
23095	707.5	1RB_Low	Rear	Fig.26	22.60	24	0.068	0.09	0.085	0.12	0.01
23095	707.5	1RB_Low	Left	/	22.60	24	0.019	0.03	0.028	0.04	0.06
23095	707.5	1RB_Low	Right	/	22.60	24	0.013	0.02	0.019	0.03	0.17
23095	707.5	1RB_Low	Top	/	22.60	24	0.009	0.01	0.014	0.02	-0.01
23060	704	25RB_High	Front	/	21.66	23	0.020	0.03	0.029	0.04	0.12
23060	704	25RB_High	Rear	/	21.66	23	0.045	0.06	0.063	0.09	0.02
23060	704	25RB_High	Left	/	21.66	23	0.016	0.02	0.024	0.03	0.08
23060	704	25RB_High	Right	/	21.66	23	0.010	0.01	0.015	0.02	0.05
23060	704	25RB_High	Top	/	21.66	23	0.008	0.01	0.012	0.02	0.06
23095	707.5	1RB_Low	Rear	B2	22.60	24	0.066	0.09	0.082	0.11	0.14

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-27: SAR Values (LTE Band12 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23095	707.5	1RB_Low	Left	Touch	Fig.27	22.60	24	0.012	0.02	0.017	0.02	-0.06
23095	707.5	1RB_Low	Left	Tilt	/	22.60	24	0.007	0.01	0.010	0.01	0.10
23095	707.5	1RB_Low	Right	Touch	/	22.60	24	0.010	0.01	0.014	0.02	0.09
23095	707.5	1RB_Low	Right	Tilt	/	22.60	24	0.005	0.01	0.008	0.01	0.09
23060	704	25RB_High	Left	Touch	/	21.66	23	0.009	0.01	0.013	0.02	0.02
23060	704	25RB_High	Left	Tilt	/	21.66	23	0.005	0.01	0.008	0.01	0.02
23060	704	25RB_High	Right	Touch	/	21.66	23	0.007	0.01	0.011	0.01	0.01
23060	704	25RB_High	Right	Tilt	/	21.66	23	0.005	0.01	0.007	0.01	-0.09
23095	707.5	1RB_Low	Left	Touch	B2	22.60	24	0.010	0.01	0.015	0.02	-0.05

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-28: SAR Values (LTE Band12 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23095	707.5	1RB_Low	Front	Fig.28	22.60	24	0.050	0.07	0.092	0.13	0.04
23095	707.5	1RB_Low	Rear	/	22.60	24	0.026	0.04	0.038	0.05	0.02
23095	707.5	1RB_Low	Left	/	22.60	24	0.013	0.02	0.019	0.03	-0.01
23095	707.5	1RB_Low	Right	/	22.60	24	0.022	0.03	0.033	0.04	0.08
23095	707.5	1RB_Low	Bottom	/	22.60	24	0.024	0.03	0.043	0.06	0.13
23060	704	25RB_High	Front	/	21.66	23	0.042	0.06	0.070	0.10	0.04
23060	704	25RB_High	Rear	/	21.66	23	0.019	0.03	0.028	0.04	0.18
23060	704	25RB_High	Left	/	21.66	23	0.010	0.01	0.014	0.02	0.05
23060	704	25RB_High	Right	/	21.66	23	0.018	0.02	0.026	0.03	0.02
23060	704	25RB_High	Bottom	/	21.66	23	0.019	0.03	0.034	0.05	0.06
23095	707.5	1RB_Low	Front	B2	22.60	24	0.053	0.07	0.089	0.12	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-29: SAR Values (LTE Band13 - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23230	782	1RB_Low	Left	Touch	/	22.50	24	0.257	0.36	0.503	0.71	0.07
23230	782	1RB_Low	Left	Tilt	Fig.29	22.50	24	0.322	0.45	0.731	1.03	-0.11
23230	782	1RB_Low	Right	Touch	/	22.50	24	0.201	0.28	0.329	0.46	-0.01
23230	782	1RB_Low	Right	Tilt	/	22.50	24	0.200	0.28	0.362	0.51	-0.05
23230	782	25RB_Low	Left	Touch	/	21.47	23	0.203	0.29	0.397	0.57	0.02
23230	782	25RB_Low	Left	Tilt	/	21.47	23	0.259	0.37	0.590	0.84	0.07
23230	782	25RB_Low	Right	Touch	/	21.47	23	0.163	0.23	0.266	0.38	-0.06
23230	782	25RB_Low	Right	Tilt	/	21.47	23	0.162	0.23	0.293	0.42	-0.01
23230	782	50RB	Left	Tilt	/	21.46	23	0.247	0.35	0.577	0.82	-0.05
23230	782	1RB_Low	Left	Tilt	B2	22.50	24	0.308	0.44	0.687	0.97	0.01

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-30: SAR Values (LTE Band13 - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23230	782	1RB_Low	Front	Fig.30	22.50	24	0.084	0.12	0.159	0.22	0.03
23230	782	1RB_Low	Rear	/	22.50	24	0.028	0.04	0.091	0.13	0.03
23230	782	1RB_Low	Left	/	22.50	24	0.028	0.04	0.101	0.14	0.10
23230	782	1RB_Low	Right	/	22.50	24	0.036	0.05	0.133	0.19	0.08
23230	782	1RB_Low	Top	/	22.50	24	<0.01	<0.01	<0.01	<0.01	/
23230	782	25RB_Low	Front	/	21.47	23	0.038	0.05	0.128	0.18	0.02
23230	782	25RB_Low	Rear	/	21.47	23	0.023	0.03	0.075	0.11	-0.11
23230	782	25RB_Low	Left	/	21.47	23	0.022	0.03	0.080	0.11	0.01
23230	782	25RB_Low	Right	/	21.47	23	0.029	0.04	0.108	0.15	0.12
23230	782	25RB_Low	Top	/	21.47	23	<0.01	<0.01	<0.01	<0.01	/
23230	782	1RB_Low	Front	B2	22.50	24	0.042	0.06	0.150	0.21	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.2-31: SAR Values (LTE Band13 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23230	782	1RB_Low	Left	Touch	/	22.50	24	0.015	0.02	0.023	0.03	0.03
23230	782	1RB_Low	Left	Tilt	/	22.50	24	0.011	0.02	0.016	0.02	0.05
23230	782	1RB_Low	Right	Touch	Fig.31	22.50	24	0.025	0.04	0.032	0.05	-0.18
23230	782	1RB_Low	Right	Tilt	/	22.50	24	0.008	0.01	0.011	0.02	0.02
23230	782	25RB_Low	Left	Touch	/	21.47	23	0.008	0.01	0.018	0.03	0.02
23230	782	25RB_Low	Left	Tilt	/	21.47	23	0.006	0.01	0.013	0.02	-0.01
23230	782	25RB_Low	Right	Touch	/	21.47	23	0.016	0.02	0.023	0.03	0.04
23230	782	25RB_Low	Right	Tilt	/	21.47	23	0.007	0.01	0.010	0.01	0.03
23230	782	50RB	Left	Tilt	/	22.50	24	0.021	0.03	0.029	0.04	0.08
23230	782	1RB_Low	Right	Touch	B2	22.50	24	0.015	0.02	0.023	0.03	0.03

Note1: The LTE mode is QPSK_10MHz.

Table 14.2-32: SAR Values (LTE Band13 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23230	782	1RB_Low	Front	Fig.32	22.50	24	0.112	0.16	0.141	0.20	0.08
23230	782	1RB_Low	Rear	/	22.50	24	0.029	0.04	0.039	0.06	0.01
23230	782	1RB_Low	Left	/	22.50	24	0.010	0.01	0.018	0.03	0.12
23230	782	1RB_Low	Right	/	22.50	24	0.008	0.01	0.009	0.01	-0.16
23230	782	1RB_Low	Bottom	/	22.50	24	0.040	0.06	0.073	0.10	0.04
23230	782	25RB_Low	Front	/	21.47	23	0.062	0.09	0.112	0.16	0.02
23230	782	25RB_Low	Rear	/	21.47	23	0.018	0.03	0.029	0.04	0.12
23230	782	25RB_Low	Left	/	21.47	23	0.008	0.01	0.009	0.01	-0.17
23230	782	25RB_Low	Right	/	21.47	23	<0.01	<0.01	<0.01	<0.01	/
23230	782	25RB_Low	Bottom	/	21.47	23	0.040	0.06	0.075	0.11	-0.16
23230	782	1RB_Low	Front	B2	22.50	24	0.105	0.15	0.136	0.19	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

14.3 SAR results for Standard procedure

There is zoom scan measurement to be added for the highest measured SAR in each exposure configuration/band.

Table 14.3-1: SAR Values (GSM 850 MHz Band - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
128	824.2	Left	Touch	Fig.1	32.28	33.3	0.543	0.69	1.06	1.34	0.03

Table 14.3-2: SAR Values (GSM 850 MHz Band - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (1)	Front	Fig.2	32.36	33.3	0.127	0.16	0.163	0.20	0.17

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-3: SAR Values (GSM 850 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Touch	Fig.3	32.35	33.3	0.042	0.05	0.055	0.07	0.07

Table 14.3-4: SAR Values (GSM 850 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	GPRS (1)	Front	Fig.4	32.36	33.3	0.063	0.08	0.081	0.10	0.02

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-5: SAR Values (GSM 1900 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
661	1880	Left	Touch	Fig.5	28.91	30	<0.01	<0.01	0.020	0.03	0.04

Table 14.3-6: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
512	1850.2	GPRS (4)	Front	Fig.6	24.14	24.5	0.068	0.07	0.144	0.16	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-7: SAR Values (WCDMA 850 MHz Band - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4233	846.6	Left	Tilt	Fig.7	22.44	23	0.413	0.47	0.917	1.04	-0.12

Table 14.3-8: SAR Values (WCDMA 850 MHz Band - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4233	846.6	Front	Fig.8	22.44	23	0.107	0.12	0.137	0.16	0.07

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-9: SAR Values (WCDMA 850 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4233	846.6	Right	Touch	Fig.9	22.44	23	0.025	0.03	0.032	0.04	0.05

Table 14.3-10: SAR Values (WCDMA 850 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
4182	836.4	Front	Fig.10	22.52	23	0.039	0.04	0.049	0.05	0.00

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-11: SAR Values (WCDMA 1700 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
1513	1752.6	Left	Touch	Fig.11	22.68	23.5	0.012	0.01	0.026	0.03	0.14

Table 14.3-12: SAR Values (WCDMA 1700 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
1513	1752.6	Front	Fig.12	22.68	23.5	0.147	0.18	0.295	0.36	-0.01

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-13: SAR Values (WCDMA 1900 MHz Band - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
9400	1880	Left	Touch	Fig.13	22.99	23.5	0.010	0.01	0.023	0.03	0.09

Table 14.3-14: SAR Values (WCDMA 1900 MHz Band - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C				
Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
9538	1907.6	Front	Fig.14	22.91	23.5	0.208	0.24	0.421	0.48	-0.13

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.3-15: SAR Values (LTE Band2 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
18700	1860	1RB_Low	Right	Touch	Fig.15	23.13	24	<0.01	<0.01	0.015	0.02	0.03

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-16: SAR Values (LTE Band2 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
18700	1860	1RB_Low	Front	Fig.16	23.13	24	0.196	0.24	0.399	0.49	-0.08

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-17: SAR Values (LTE Band4 - Head) – Bottom antenna

Ambient Temperature: 22.5°C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Powe r Drift (dB)
Ch.	MHz											
20300	1745	1RB_High	Right	Touch	Fig.17	23.40	24	<0.01	<0.01	0.013	0.01	0.04

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-18: SAR Values (LTE Band4 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20300	1745	1RB_High	Front	Fig.18	23.40	24	0.298	0.34	0.589	0.68	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-19: SAR Values (LTE Band5 - Head) – Top antenna

Ambient Temperature: 22.5°C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20600	844	1RB_High	Left	Tilt	Fig.19	21.97	22.5	0.453	0.51	1.09	1.23	0.05

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-20: SAR Values (LTE Band5 - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Front	Fig.20	22.18	22.5	0.077	0.08	0.098	0.11	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-21: SAR Values (LTE Band5 - Head) – Bottom antenna

Ambient Temperature: 22.5°C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
20450	829	1RB_Low	Right	Touch	Fig.21	22.18	22.5	0.028	0.03	0.037	0.04	0.11

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-22: SAR Values (LTE Band5 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
20450	829	1RB_Low	Right	Fig.22	22.18	22.5	0.040	0.04	0.057	0.06	-0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-23: SAR Values (LTE Band7 - Head) – Bottom antenna

Ambient Temperature: 22.5°C														Liquid Temperature: 22.1°C													
Frequency			Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max.tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)														
Ch.	MHz																										
21350	2560	1RB_High	Left	Touch	Fig.23	23.38	24	0.287	0.33	0.539	0.62	0.02															

Note1: The LTE mode is QPSK_20MHz.

Table 14.3-24: SAR Values (LTE Band7 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
21350	2560	1RB_High	Front	Fig.24	23.38	24	0.314	0.36	0.576	0.66	0.17

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.3-25: SAR Values (LTE Band12 - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23095	707.5	1RB_Low	Left	Tilt	Fig.25	22.60	24	0.247	0.34	0.522	0.72	-0.06

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-26: SAR Values (LTE Band12 - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23095	707.5	1RB_Low	Rear	Fig.26	22.60	24	0.068	0.09	0.085	0.12	0.01

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-27: SAR Values (LTE Band12 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23095	707.5	1RB_Low	Left	Touch	Fig.27	22.60	24	0.012	0.02	0.017	0.02	-0.06

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-28: SAR Values (LTE Band12 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23095	707.5	1RB_Low	Front	Fig.28	22.60	24	0.050	0.07	0.092	0.13	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-29: SAR Values (LTE Band13 - Head) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C						
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
23230	782	1RB_Low	Left	Tilt	Fig.29	22.50	24	0.322	0.45	0.731	1.03	-0.11

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-30: SAR Values (LTE Band13 - Body) – Top antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23230	782	1RB_Low	Front	Fig.30	22.50	24	0.084	0.12	0.159	0.22	0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.3-31: SAR Values (LTE Band13 - Head) – Bottom antenna

Ambient Temperature: 22.5 °C													Liquid Temperature: 22.1°C			
Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)				
Ch.	MHz															
23230	782	1RB_Low	Right	Touch	Fig.31	22.50	24	0.025	0.04	0.032	0.05	-0.18				

Note1: The LTE mode is QPSK_10MHz.

Table 14.3-32: SAR Values (LTE Band13 - Body) – Bottom antenna

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
23230	782	1RB_Low	Front	Fig.32	22.50	24	0.112	0.16	0.141	0.20	0.08

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

14.4 WLAN Evaluation

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

Head Evaluation

Table 14.4-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR)

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	/	13.68	14	0.065	0.07	0.129	0.14	0.10
2462	11	Left	Tilt	/	13.68	14	0.060	0.06	0.123	0.13	0.08
2462	11	Right	Touch	/	13.68	14	0.186	0.20	0.414	0.45	0.01
2462	11	Right	Tilt	/	13.68	14	0.133	0.14	0.323	0.35	0.07
2462	11	Right	Touch	B2	13.68	14	0.172	0.19	0.395	0.43	-0.04

As shown above table, the initial test position for head is “Right Touch”. So the head SAR of WLAN is presented as below:

Table 14.4-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.1°C					
Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Right	Touch	Fig.33	13.68	14	0.156	0.17	0.346	0.37	0.01

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

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

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

Table 14.4-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.5 °C					Liquid Temperature: 22.1°C		
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.						
2462	11	Right	Touch	99.43%	100%	0.37	0.37
2462	11	Left	Touch	99.43%	100%	0.14	0.14
2462	11	Left	Tilt	99.43%	100%	0.13	0.13

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

Body Evaluation

Table 14.4-4: SAR Values (WLAN - Body)– 802.11b (Fast SAR)

Ambient Temperature: 22.5°C					Liquid Temperature: 22.1°C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Front	/	13.68	14	0.026	0.03	0.046	0.05	-0.05
2462	11	Rear	/	13.68	14	0.025	0.03	0.045	0.05	-0.04
2462	11	Right	/	13.68	14	0.013	0.01	0.025	0.03	0.16
2462	11	Top	/	13.68	14	0.019	0.02	0.036	0.04	-0.08
2462	11	Front	B2	13.68	14	0.025	0.03	0.046	0.05	0.09

As shown above table, the initial test position for body is “Front”. So the body SAR of WLAN is presented as below:

Table 14.4-5: SAR Values(WLAN - Body)– 802.11b (Full SAR)

Ambient Temperature: 22.5°C					Liquid Temperature: 22.1°C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g)(W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Front	Fig.34	13.68	14	0.026	0.03	0.047	0.05	-0.05

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

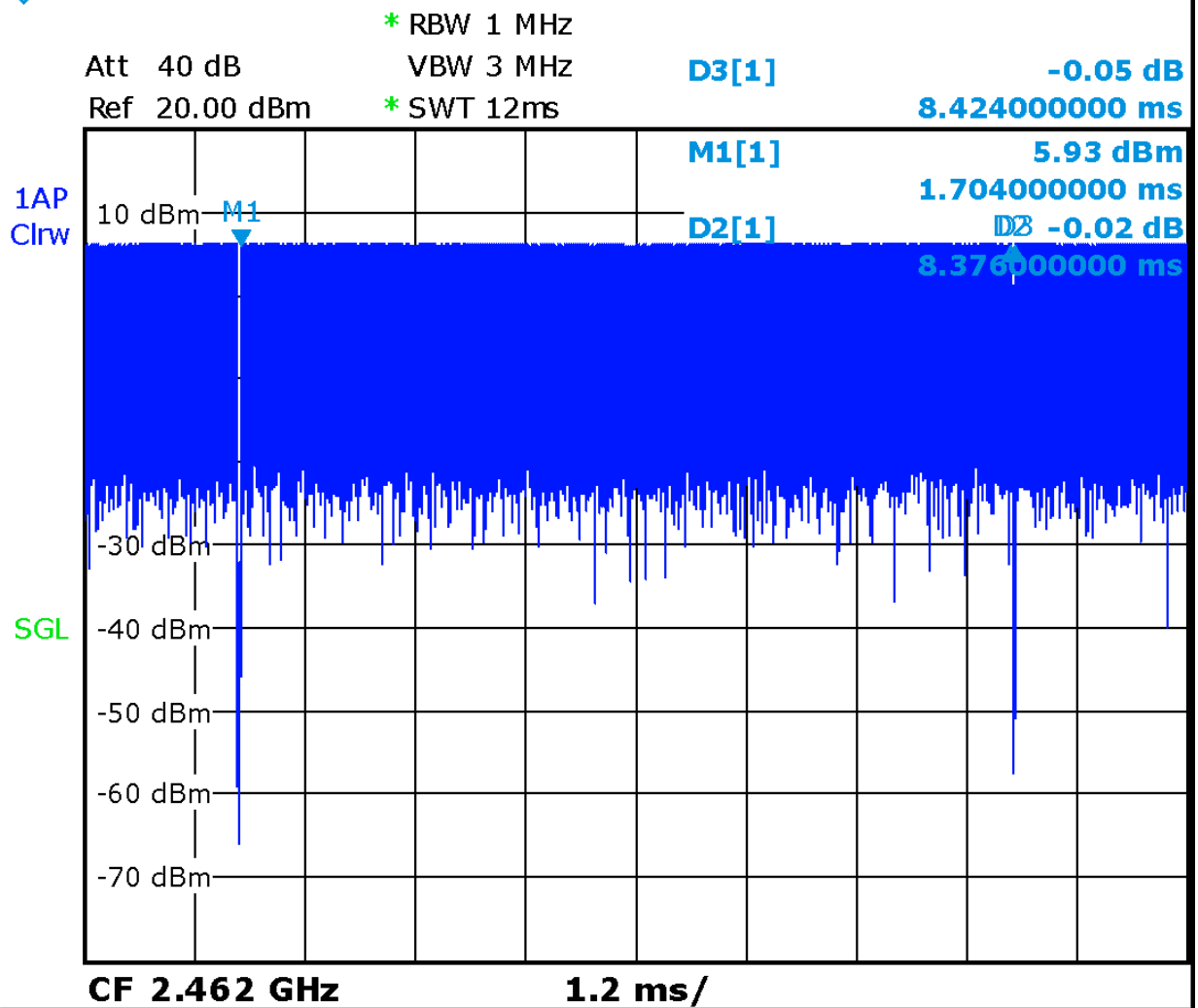
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg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

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

Table 14.4-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)

Ambient Temperature: 22.5 °C				Liquid Temperature: 22.1°C		
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g)(W/kg)	Scaled reported SAR (1g)(W/kg)
MHz	Ch.					
2462	11	Front	99.43%	100%	0.05	0.05

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.



Picture 14.1 Duty factor plot

15 SAR Measurement Variability

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

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

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

Table 15.1: SAR Measurement Variability for Head GSM850 (1g) – Top antenna

Frequency		Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
128	824.2	Left	Touch	1.06	1.05	1.01	/

Table 15.2: SAR Measurement Variability for Head W850 (1g) – Top antenna

Frequency		Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz						
4233	846.6	Left	Tilt	0.917	0.911	1.01	/

Table 15.3: SAR Measurement Variability for Head LTE B5 (1g) – Top antenna

Frequency		Mode	Side	Test Position	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
Ch.	MHz							
20600	844	1RB_High	Left	Tilt	1.09	1.07	1.02	/

16 Measurement Uncertainty

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

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

Combined standard uncertainty	$u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$					19.1	18.9	

16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞

	(target)									
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.7	10.6	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.4	21.1	

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

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

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

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

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder	A	3.4	N	1	1	1	3.4	3.4	5

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

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 13, 2017	One year
02	Power meter	NRVD	102083	September 22, 2016	One year
03	Power sensor	NRV-Z5	100595		
04	Signal Generator	E4438C	MY49071430	January 13, 2017	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	E5515C	MY50263375	January 16, 2017	One year
07	BTS	CMW500	159890	November 25, 2016	One year
08	E-field Probe	SPEAG EX3DV4	3846	January 13, 2017	One year
09	DAE	SPEAG DAE4	1331	January 19, 2017	One year
10	Dipole Validation Kit	SPEAG D750V3	1017	July 20, 2016	One year
11	Dipole Validation Kit	SPEAG D835V2	4d069	July 20, 2016	One year
12	Dipole Validation Kit	SPEAG D1750V2	1003	July 21, 2016	One year
13	Dipole Validation Kit	SPEAG D1900V2	5d101	July 28, 2016	One year
14	Dipole Validation Kit	SPEAG D2450V2	853	July 25, 2016	One year
15	Dipole Validation Kit	SPEAG D2600V2	1012	July 25, 2016	One year

END OF REPORT BODY

ANNEX A Graph Results

850 Left Cheek Low

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used: $f = 825$ MHz; $\sigma = 0.862$ mho/m; $\epsilon_r = 43.36$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: GSM 850 Frequency: 824.2 MHz Duty Cycle: 1:8.3

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

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

Maximum value of SAR (interpolated) = 1.01 W/kg

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

Reference Value = 25.91 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.84 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.543 W/kg

Maximum value of SAR (measured) = 1.44 W/kg

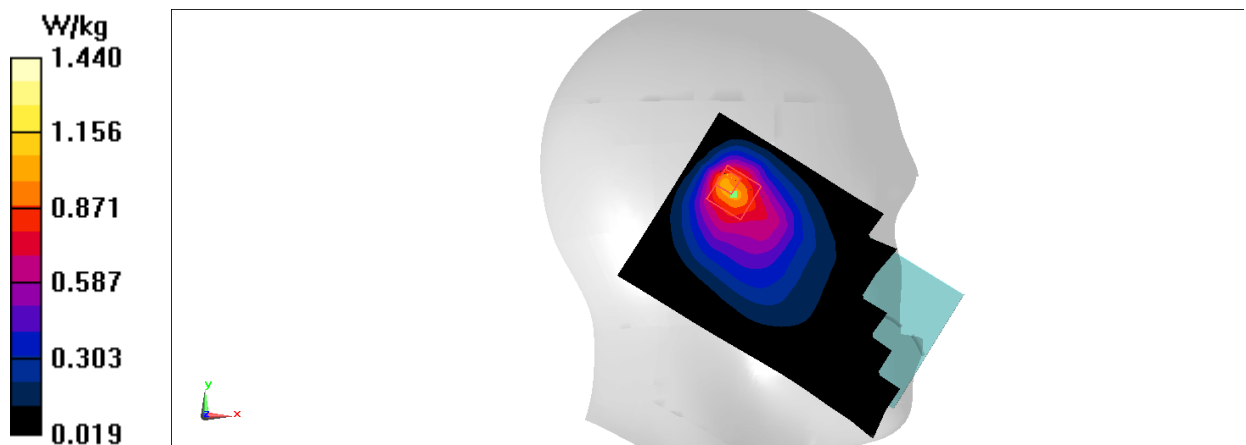


Fig.1 850MHz

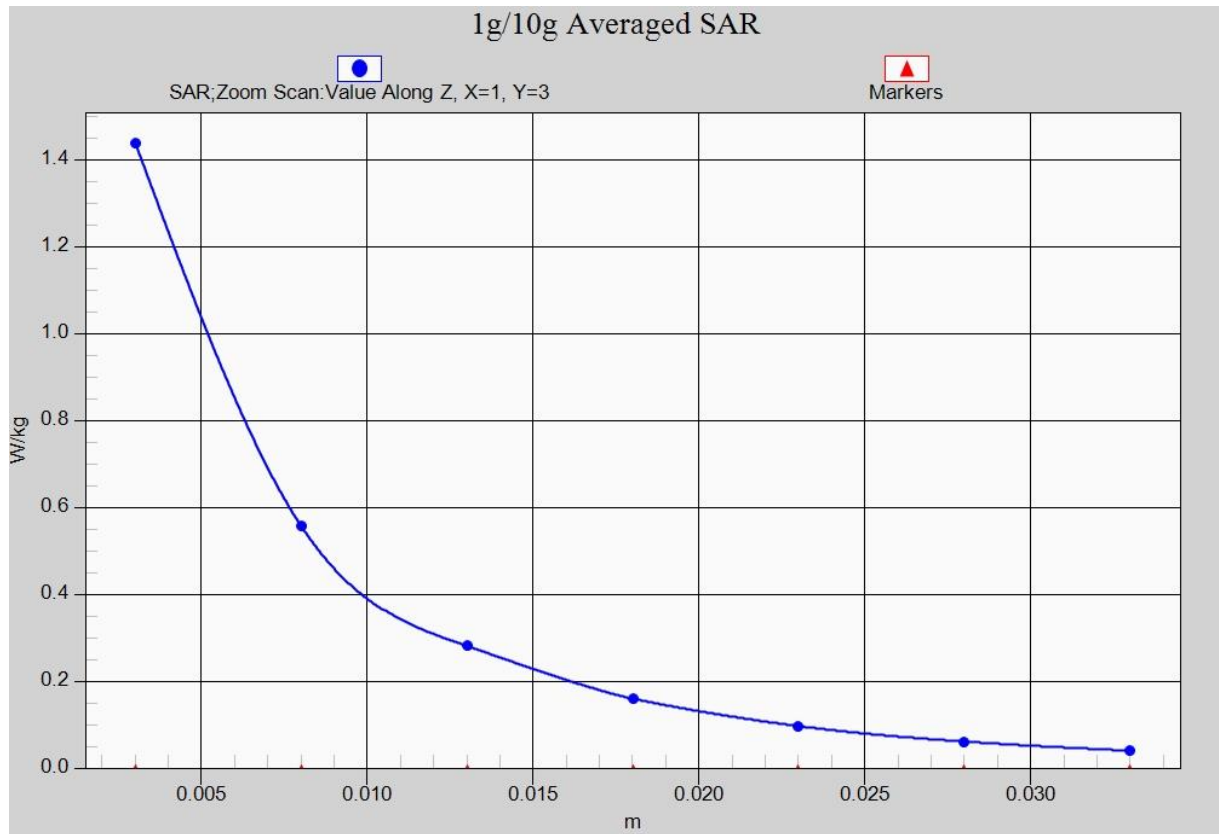


Fig. 1-1 Z-Scan at power reference point (850 MHz)

850 Body Front Middle

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.19$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:8.3

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

Area Scan (121x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.177 W/kg

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

Reference Value = 12.86 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.201 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.127 W/kg

Maximum value of SAR (measured) = 0.176 W/kg

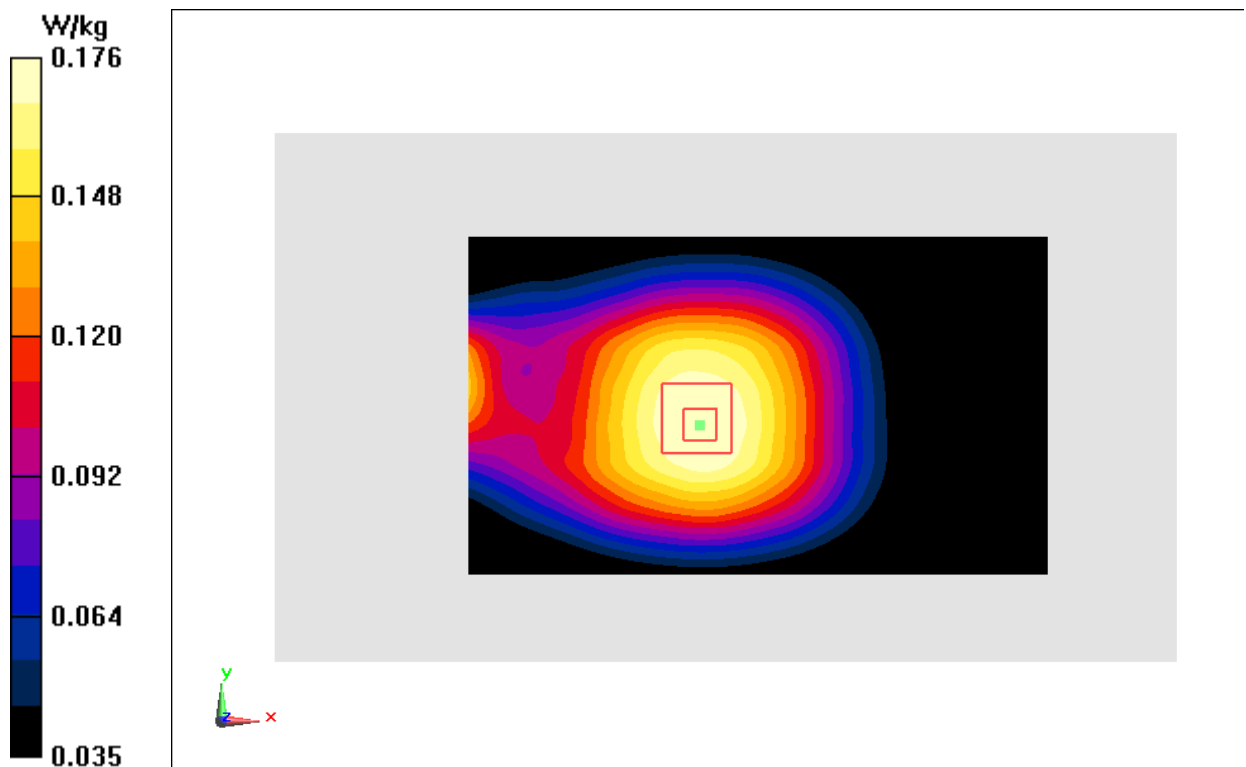


Fig.2 850 MHz

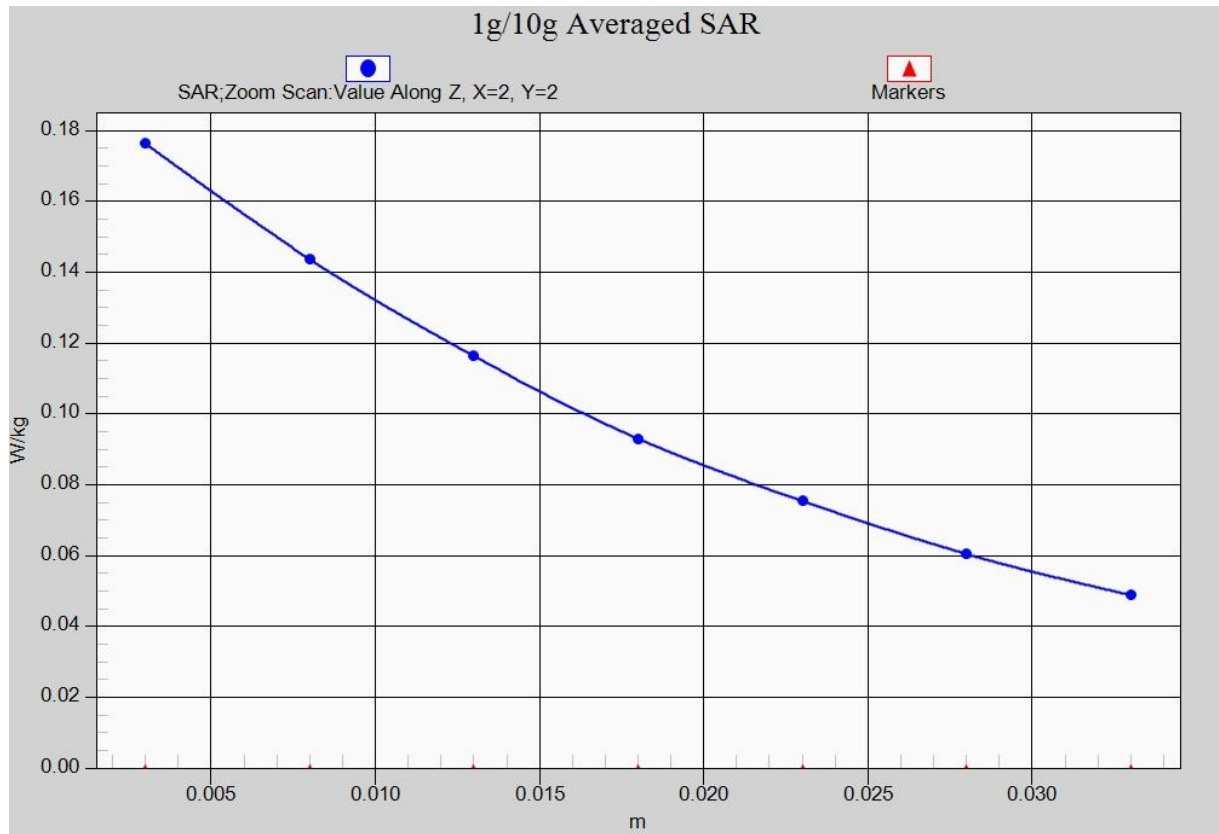


Fig. 2-1 Z-Scan at power reference point (850 MHz)

850 Left Cheek Middle

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.871$ mho/m; $\epsilon_r = 43.25$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: GSM 850 Frequency: 836.6 MHz Duty Cycle: 1:8.3

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

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

Maximum value of SAR (interpolated) = 0.0613 W/kg

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

Reference Value = 1.213 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0700 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.0598 W/kg

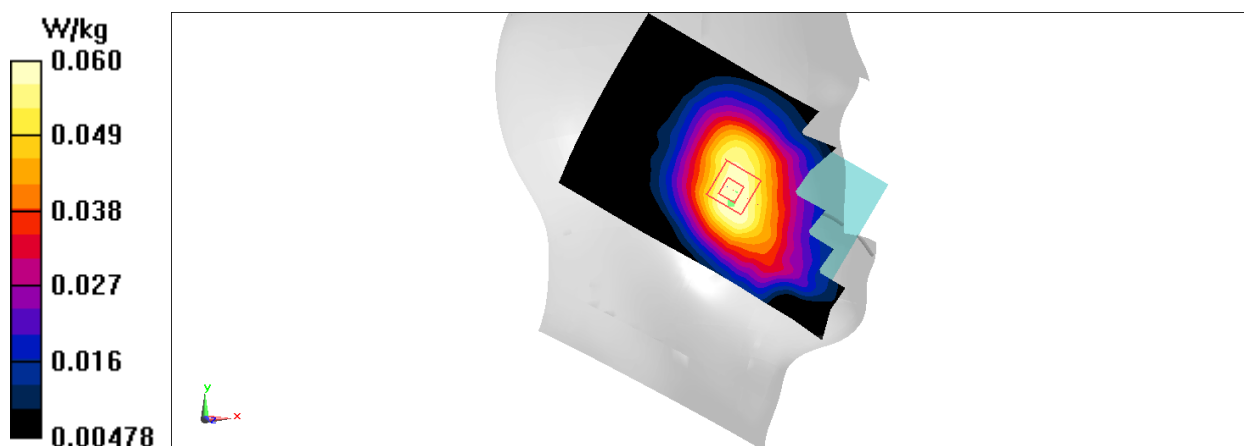


Fig.3 850MHz

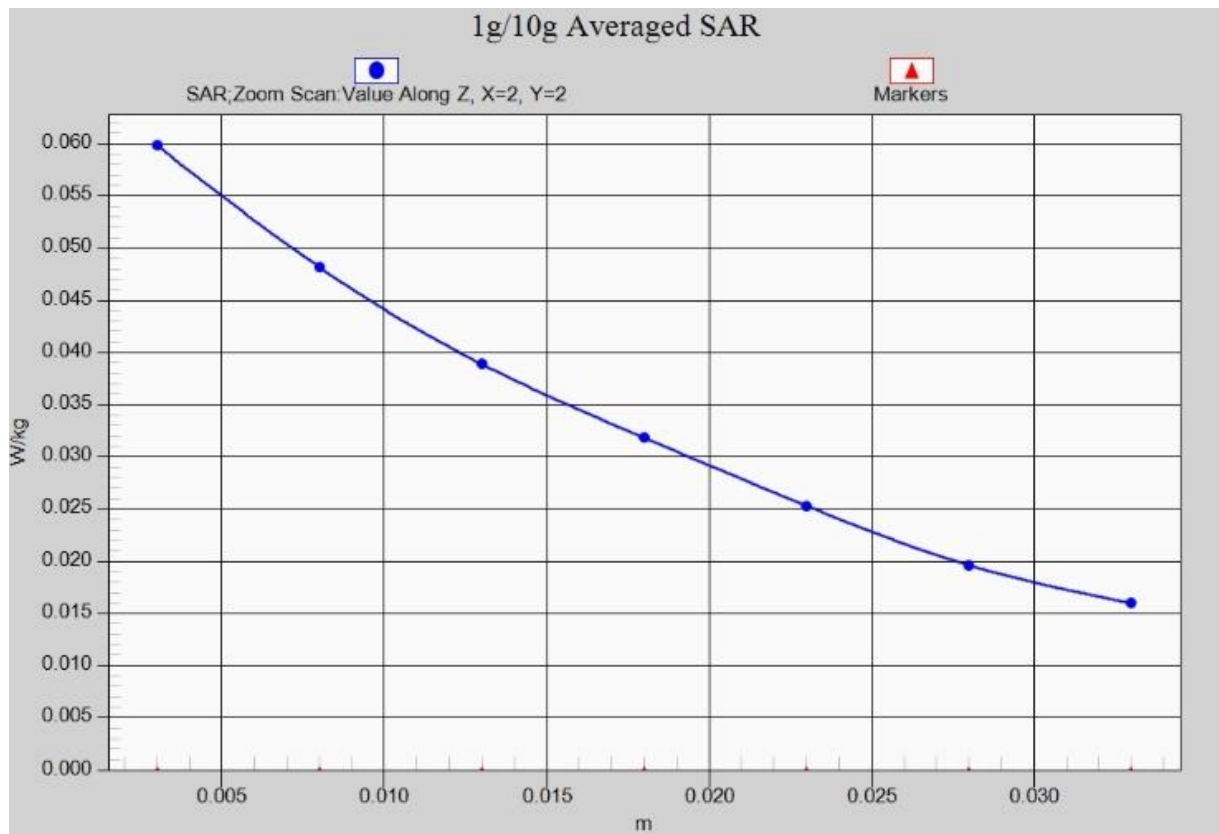


Fig. 3-1 Z-Scan at power reference point (850 MHz)

850 Body Front Middle

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.977$ mho/m; $\epsilon_r = 54.19$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:8.3

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

Area Scan (121x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.0992 W/kg

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

Reference Value = 9.264 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.0993 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.264 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.0888 W/kg

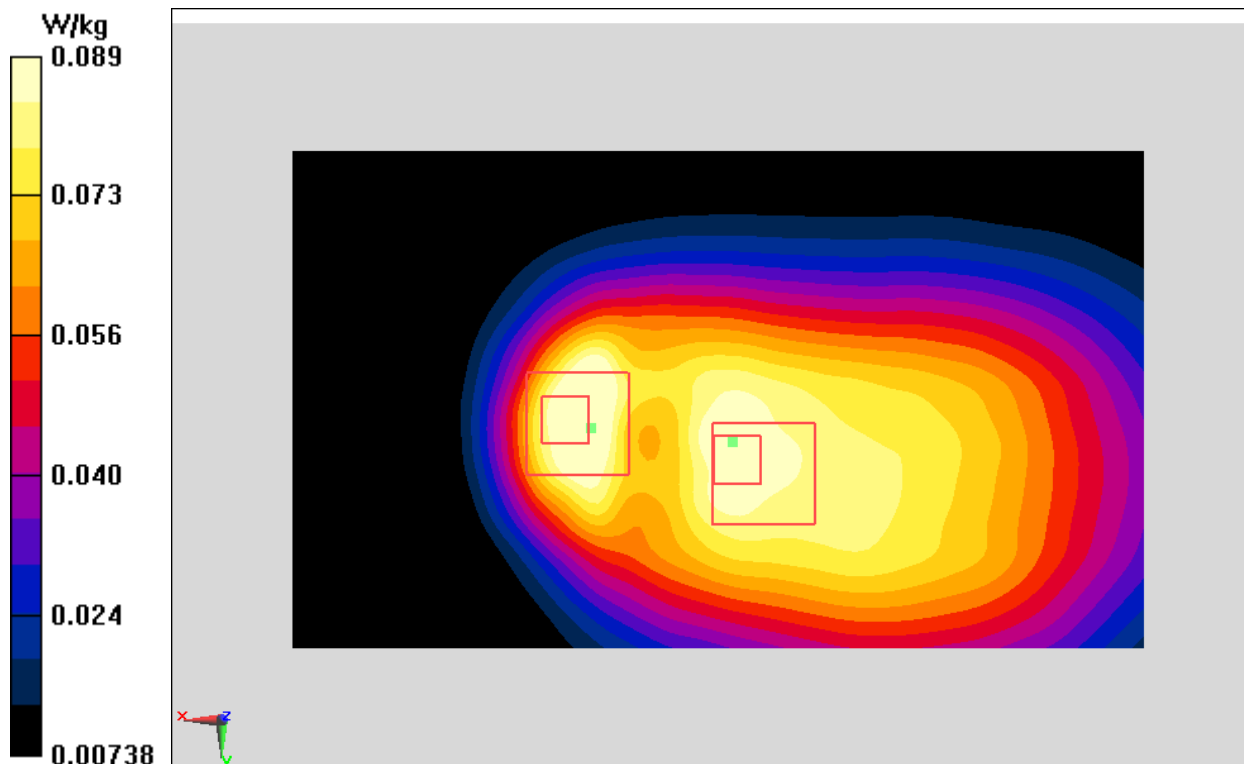


Fig.4 850 MHz

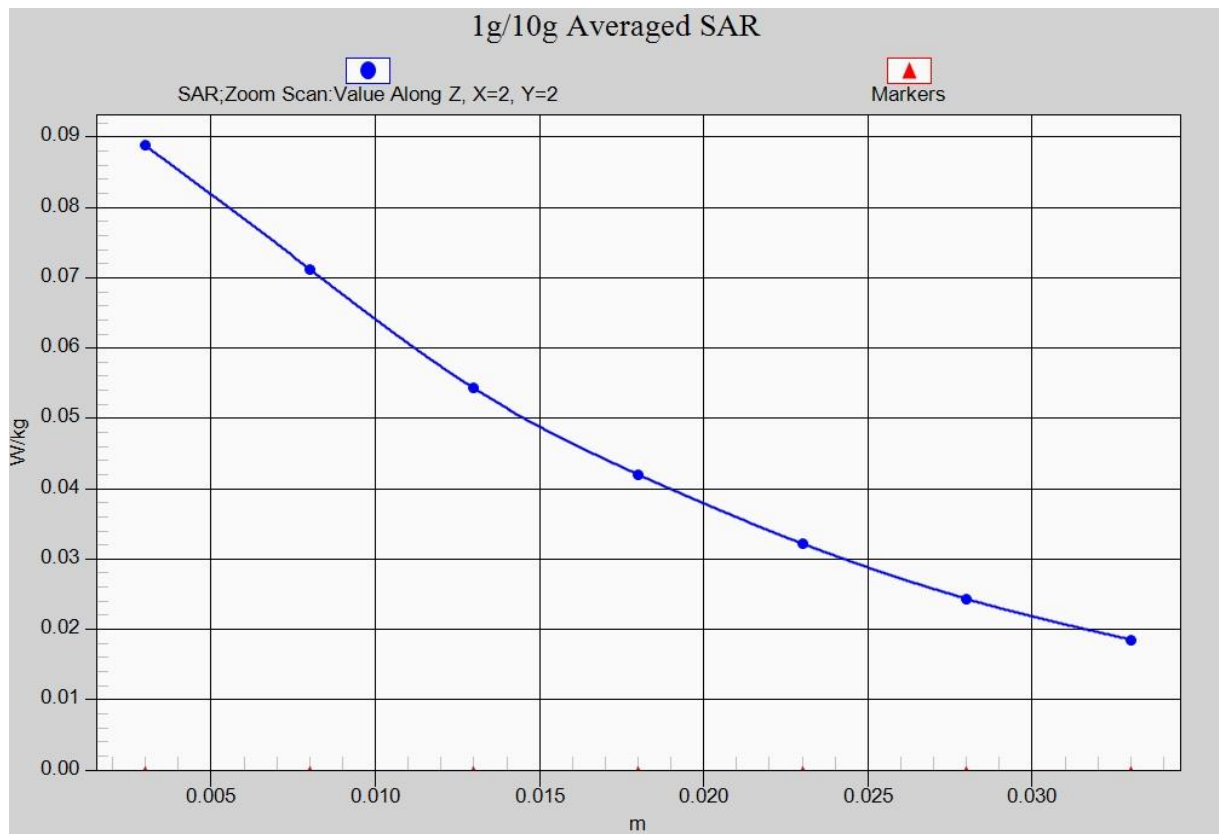


Fig. 4-1 Z-Scan at power reference point (850 MHz)

1900 Left Cheek Middle

Date: 2017-6-26

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.381$ mho/m; $\epsilon_r = 41.32$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

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

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

Maximum value of SAR (interpolated) = 0.0249 W/kg

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

Reference Value = 1.021 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00902 W/kg

Maximum value of SAR (measured) = 0.0267 W/kg

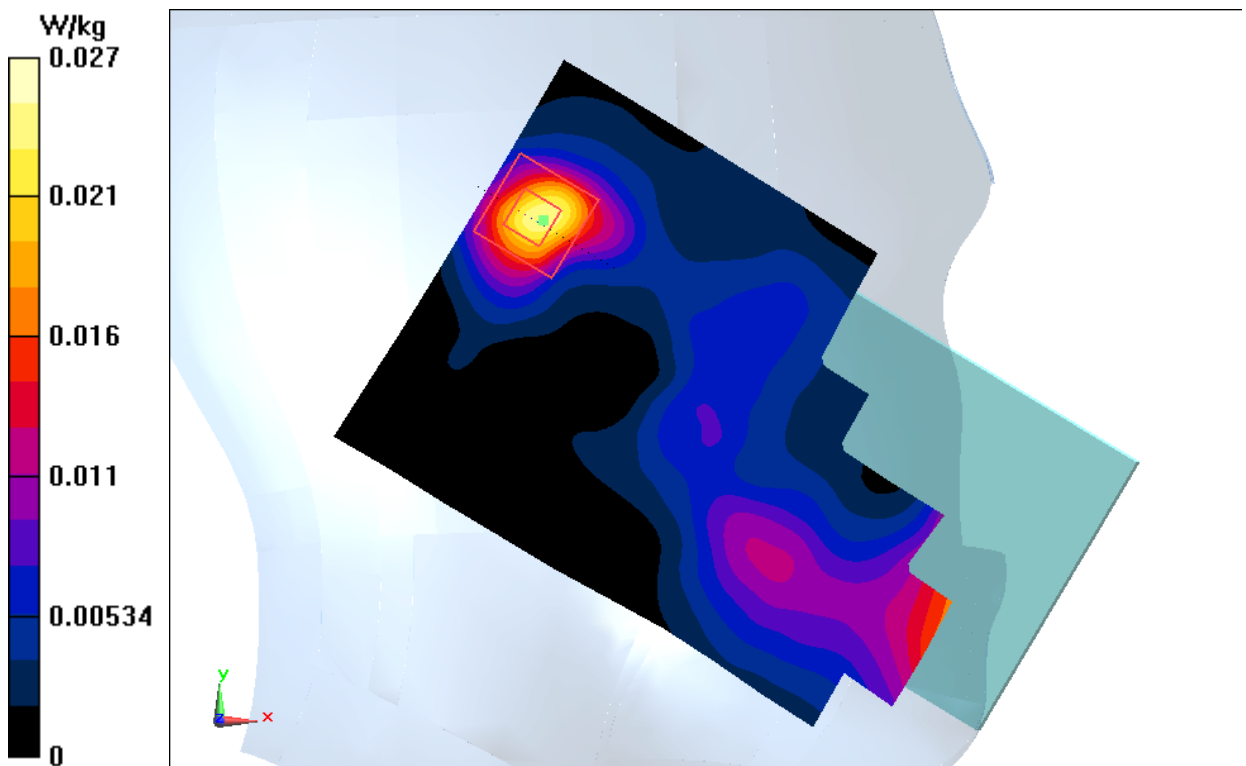


Fig.5 1900 MHz

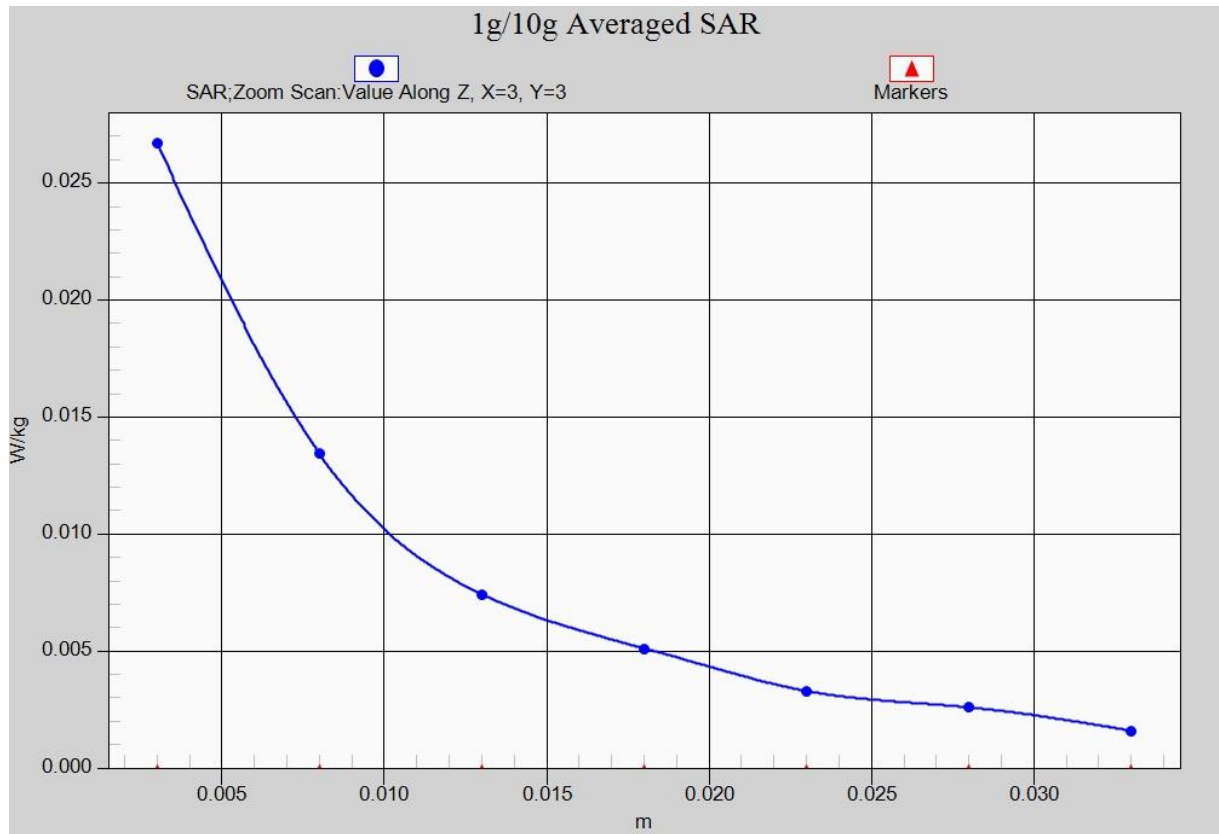


Fig. 5-1 Z-Scan at power reference point (1900 MHz)

1900 Body Front Low

Date: 2017-6-26

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:2

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

Area Scan (121x71x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.203 W/kg

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

Reference Value = 0.6280 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.285 W/kg

SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.217 W/kg

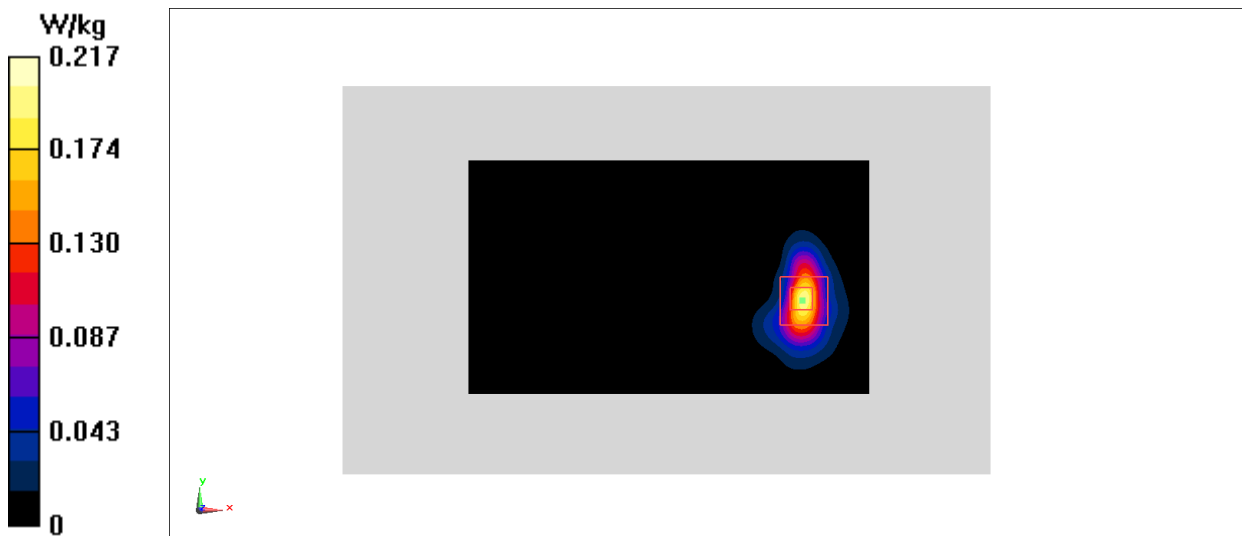


Fig.6 1900 MHz

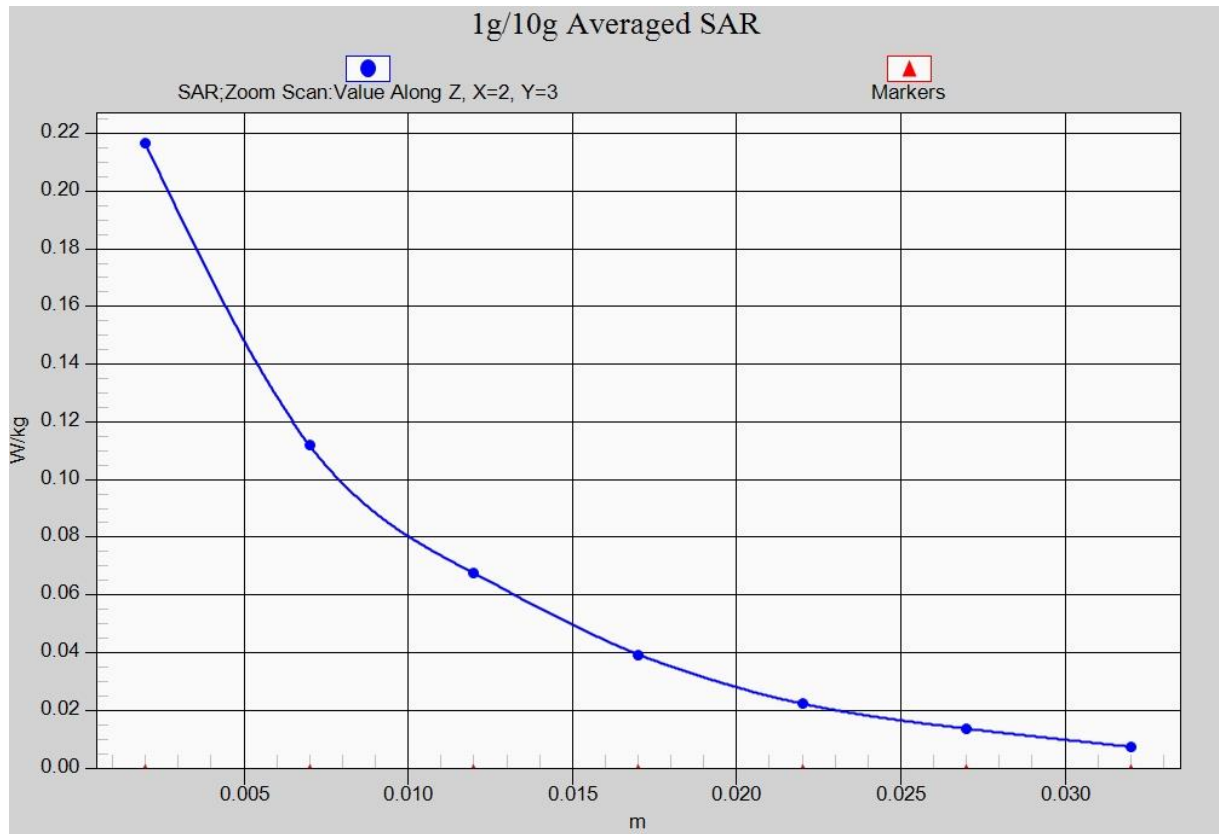


Fig. 6-1 Z-Scan at power reference point (1900 MHz)

WCDMA 850 Left Tilt High

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 43.065$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

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

Maximum value of SAR (interpolated) = 0.919 W/kg

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

Reference Value = 23.60 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.917 W/kg; SAR(10 g) = 0.413 W/kg

Maximum value of SAR (measured) = 1.05 W/kg

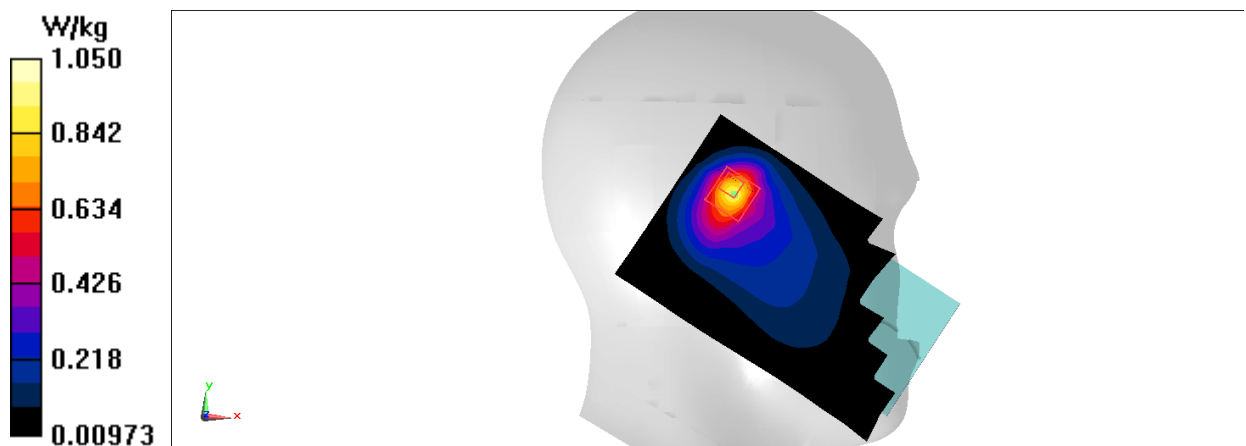


Fig.7 WCDMA 850

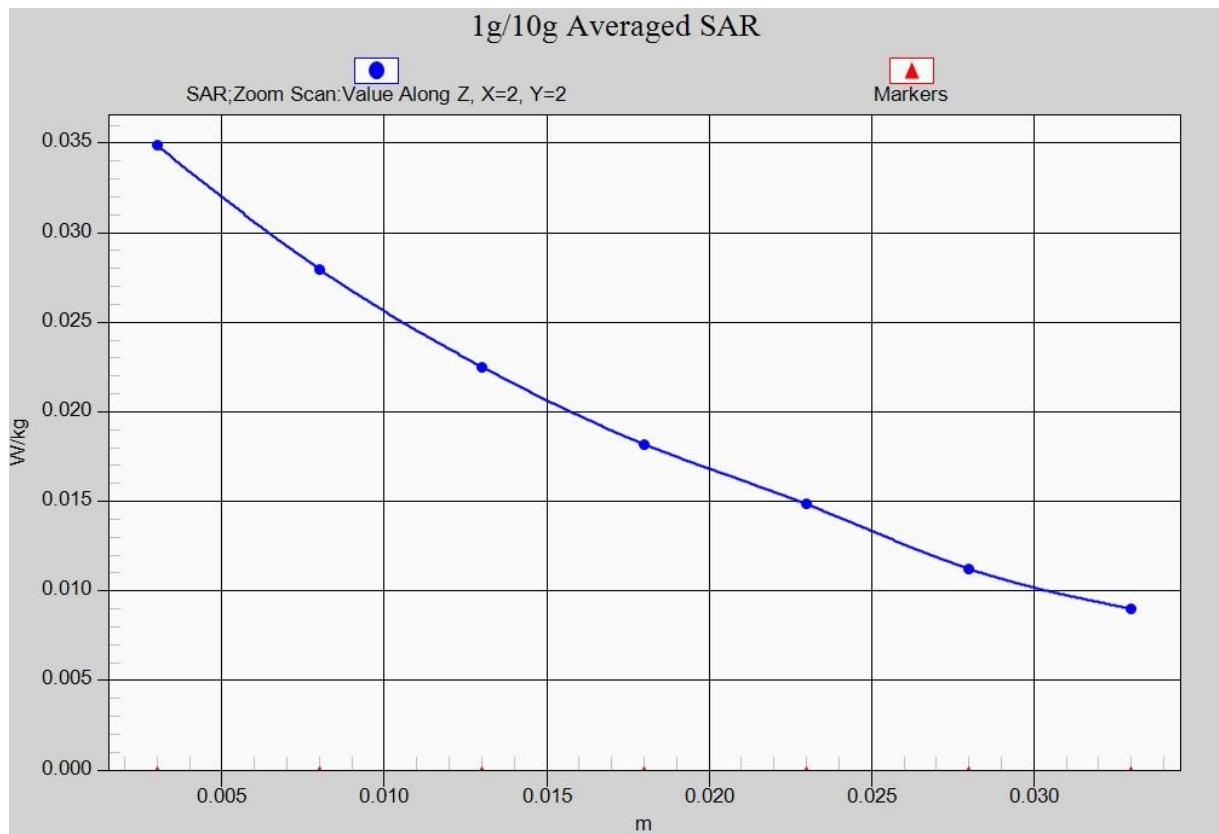


Fig. 7-1 Z-Scan at power reference point (850 MHz)

WCDMA 850 Body Front High

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.989$ mho/m; $\epsilon_r = 54.06$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.147 W/kg

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

Reference Value = 12.24 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.107 W/kg

Maximum value of SAR (measured) = 0.148 W/kg

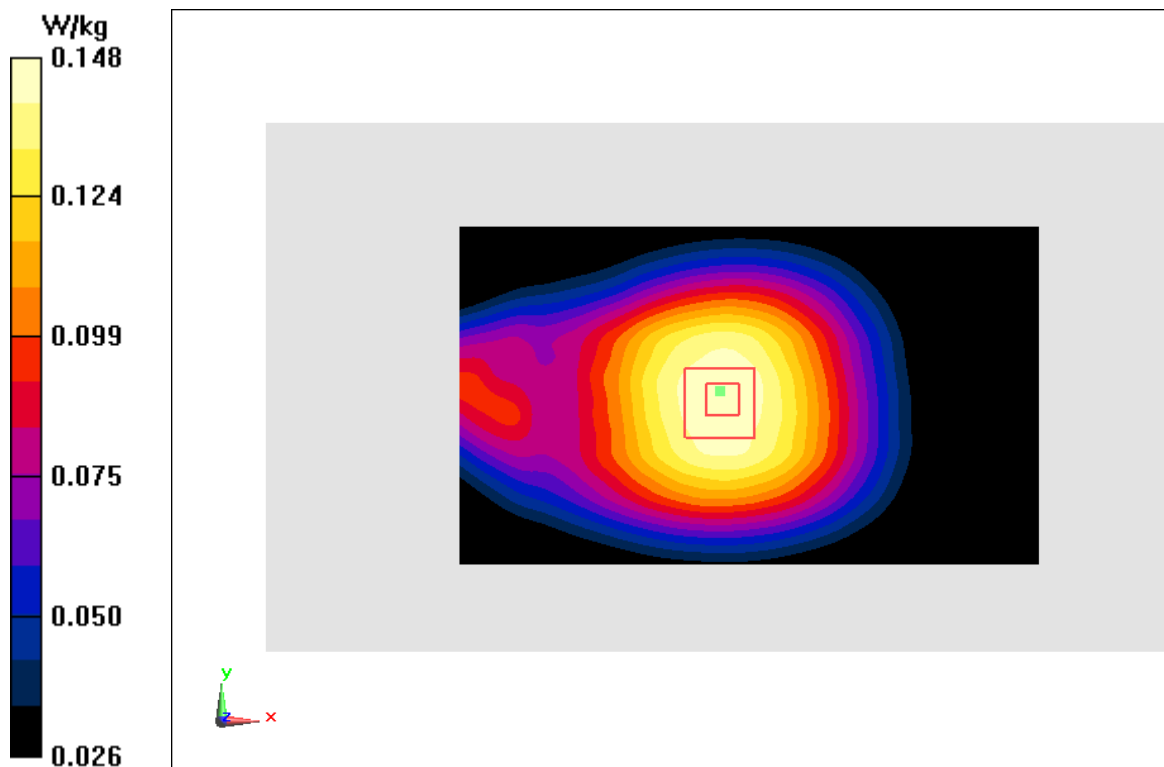


Fig.8 WCDMA 850

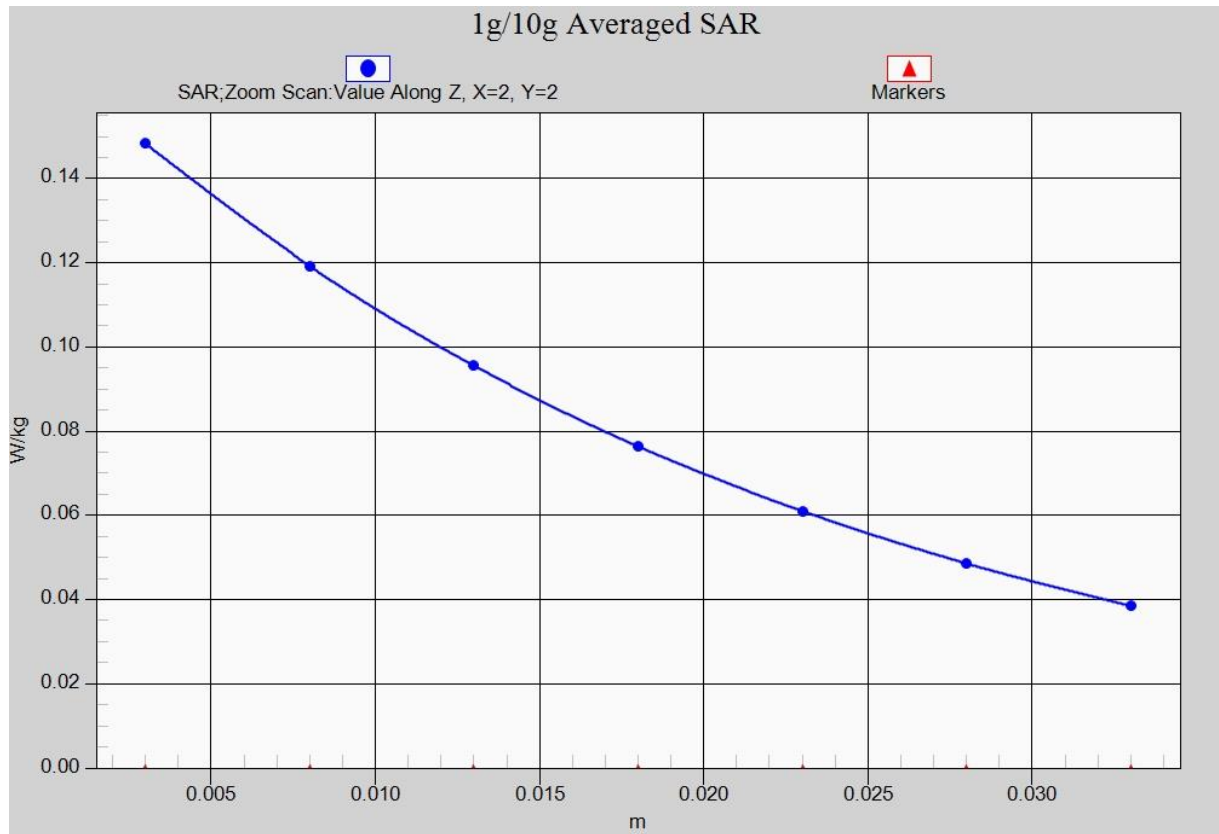


Fig. 8-1 Z-Scan at power reference point (WCDMA850)

WCDMA 850 Right Cheek High

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.882$ mho/m; $\epsilon_r = 43.065$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

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

Maximum value of SAR (interpolated) = 0.0344 W/kg

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

Reference Value = 1.465 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0349 W/kg

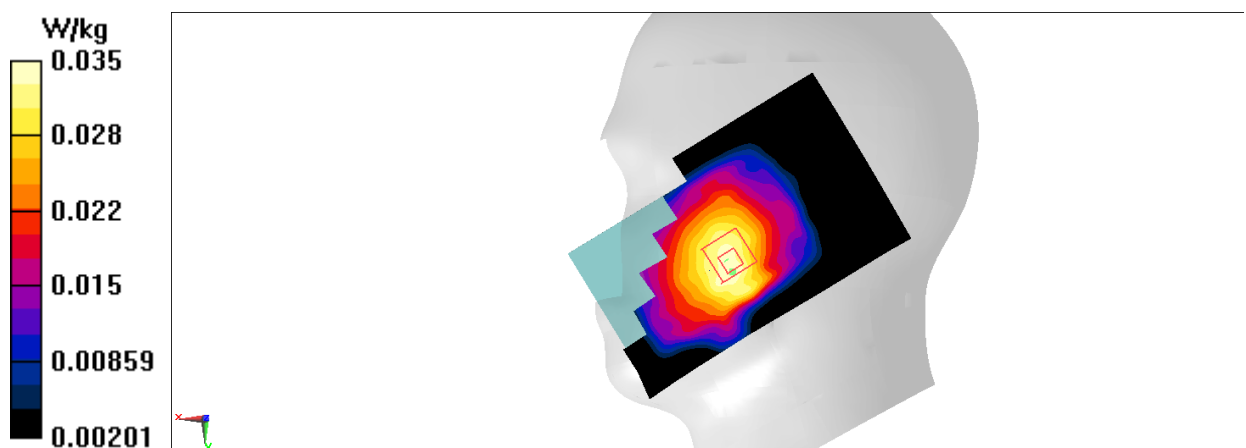


Fig.9 WCDMA 850

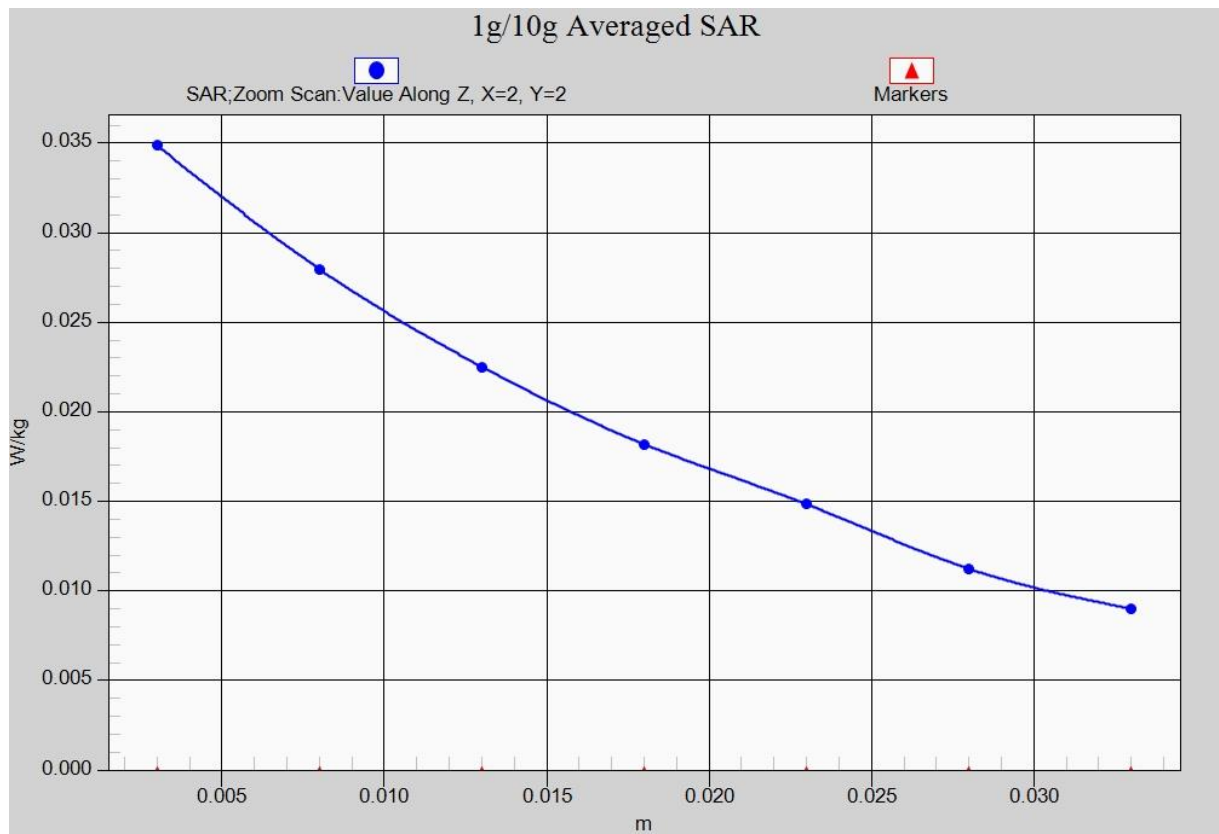


Fig. 9-1 Z-Scan at power reference point (850 MHz)

WCDMA 850 Body Front Middle

Date: 2017-6-24

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.979$ mho/m; $\epsilon_r = 54.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Area Scan (111x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0535 W/kg

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

Reference Value = 7.411 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0600 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.0532 W/kg

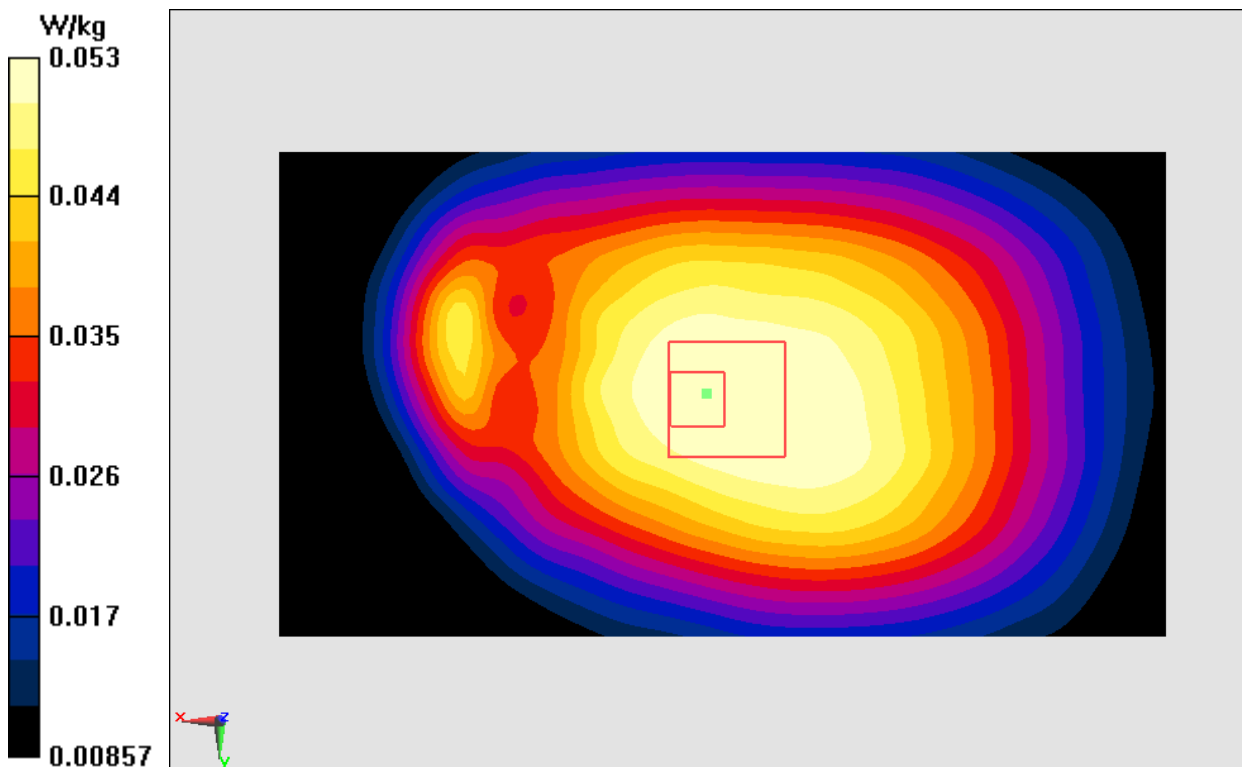


Fig.10 WCDMA 850

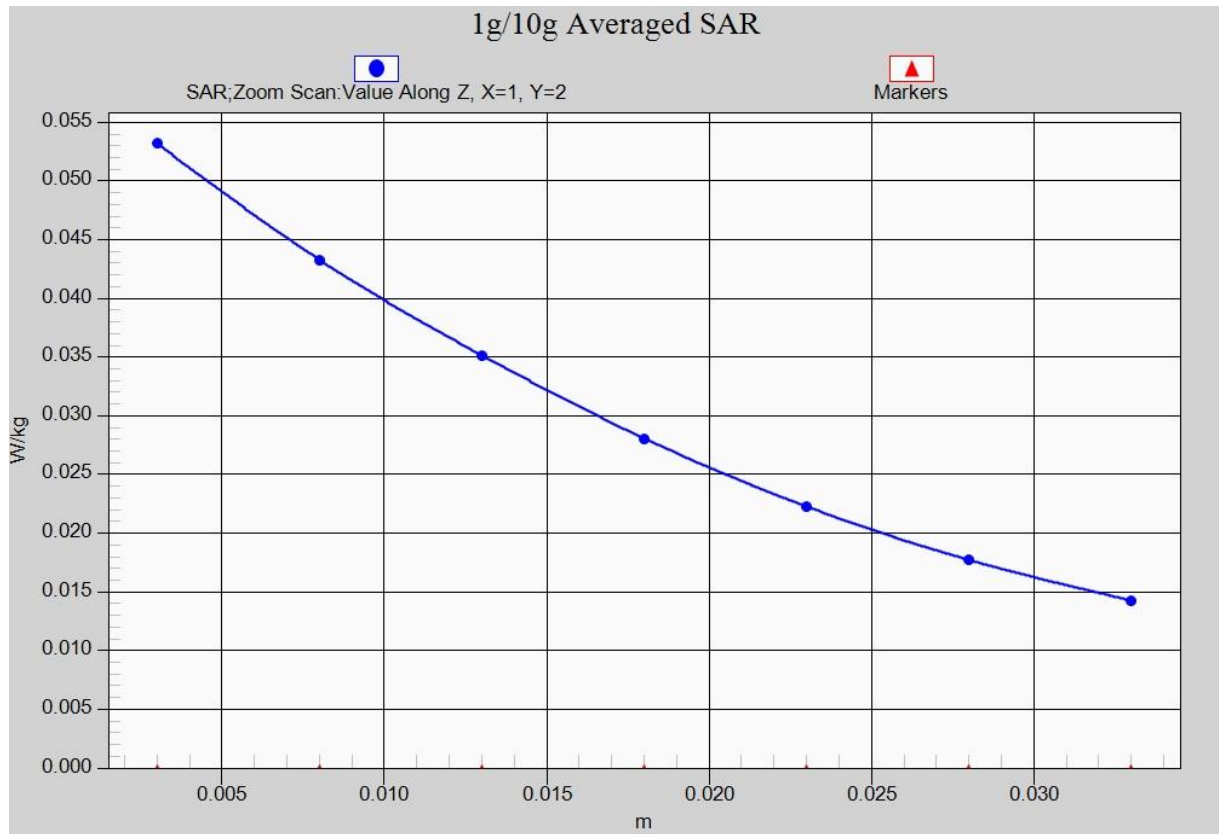


Fig. 10-1 Z-Scan at power reference point (WCDMA850)

WCDMA 1700 Left Cheek High

Date: 2017-6-28

Electronics: DAE4 Sn1331

Medium: Head 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.403$ mho/m; $\epsilon_r = 39.09$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: WCDMA 1750 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(8.16, 8.16, 8.16)

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

Maximum value of SAR (interpolated) = 0.0370 W/kg

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

Reference Value = 1.076 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0540 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0367 W/kg

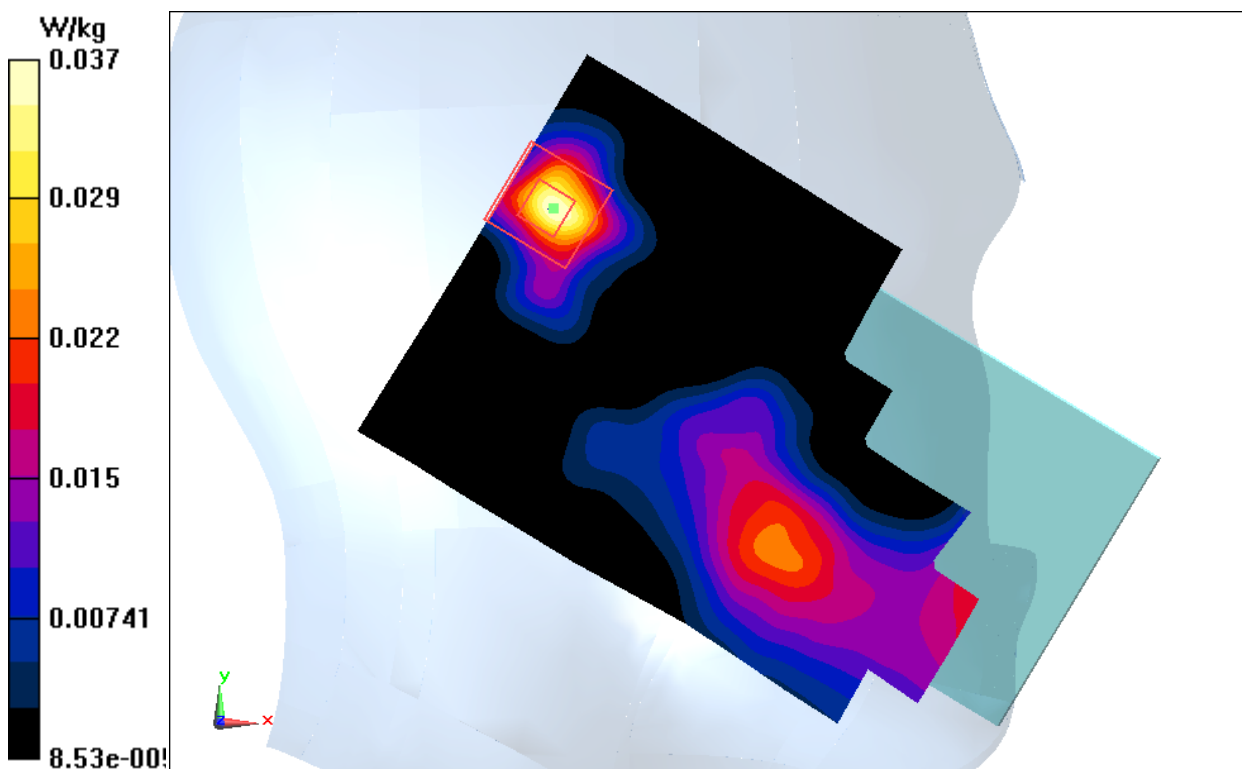


Fig.11 WCDMA1700

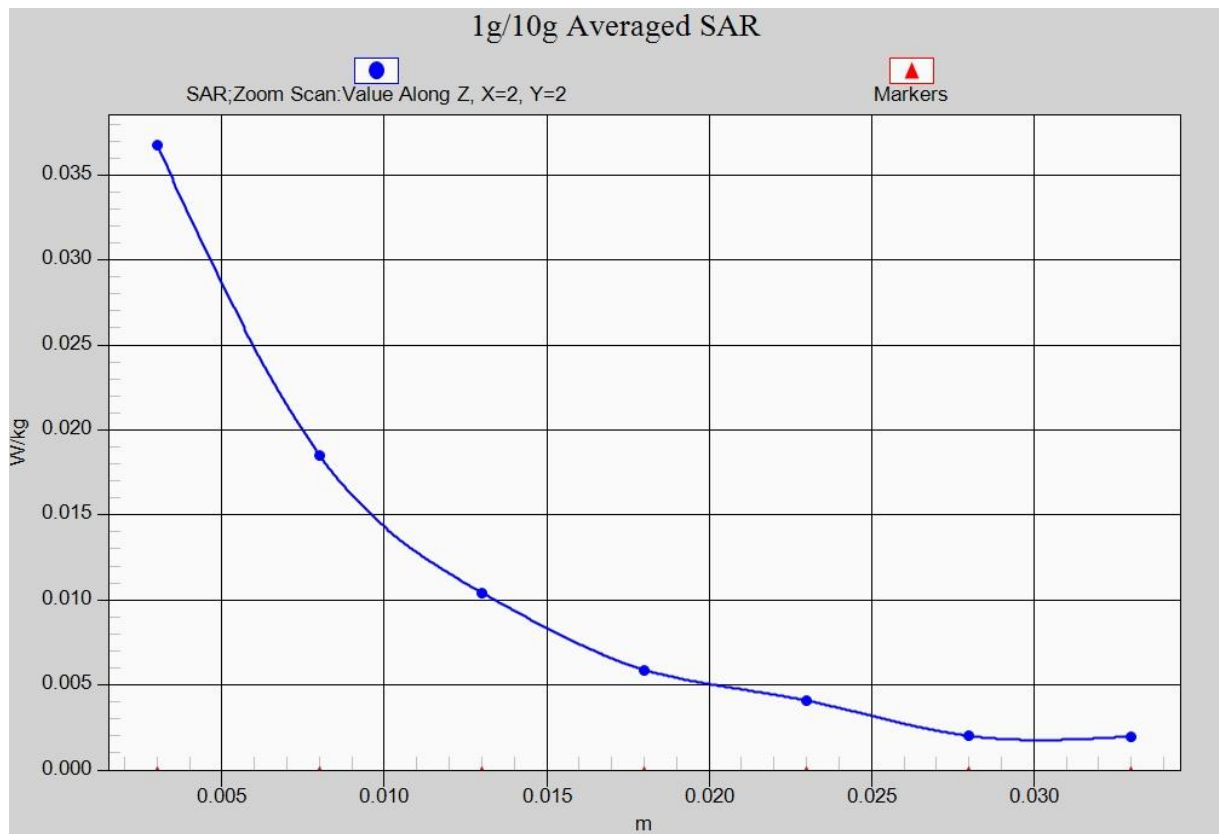


Fig. 11-1 Z-Scan at power reference point (WCDMA1700)

WCDMA 1700 Body Front High

Date: 2017-6-28

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.502$ mho/m; $\epsilon_r = 52.36$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.1°C

Communication System: WCDMA 1900 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN3846 ConvF(7.90, 7.90, 7.90)

Area Scan (121x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.425 W/kg

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

Reference Value = 2.432 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.527 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.419 W/kg

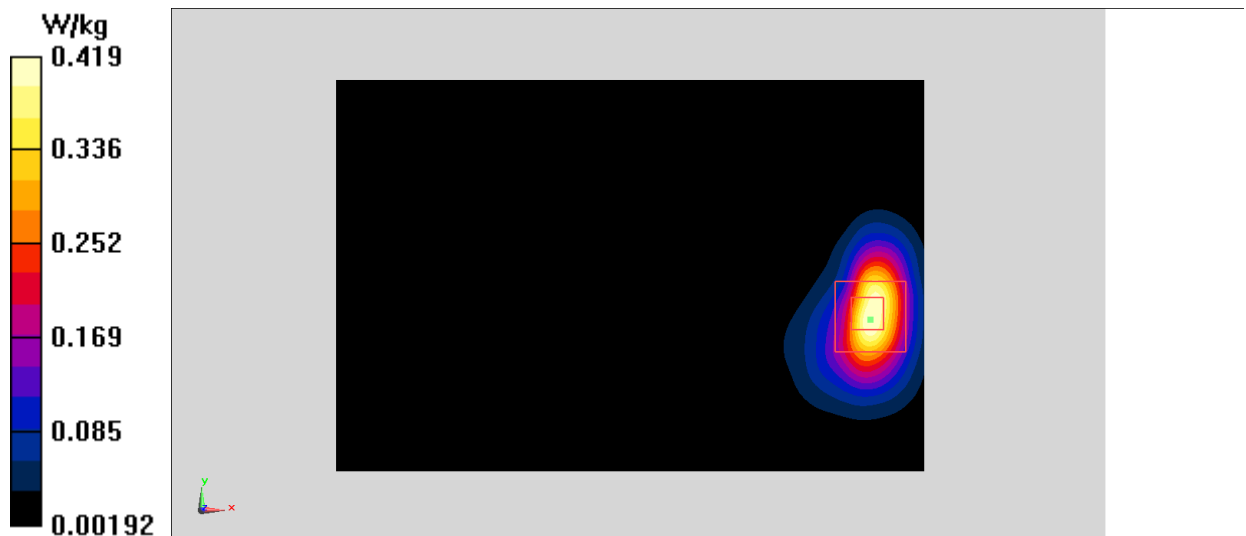


Fig.12 WCDMA1700