

Table 14.26: SAR Values (Wi-Fi 802.11a - Head)

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.0 °C					
Frequency		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)
MHz	Ch.										
5220	44	Left	Touch	/	16.83	17.0	0.068	0.07	0.260	0.27	0.18
5220	44	Left	Tilt	/	16.83	17.0	0.025	0.03	0.097	0.10	0.19
5220	44	Right	Touch	/	16.83	17.0	0.045	0.05	0.126	0.13	0.14
5220	44	Right	Tilt	/	16.83	17.0	0.017	0.02	0.047	0.05	-0.17
5300	60	Left	Touch	Fig.25	17.62	18.0	0.172	0.19	0.492	0.54	0.18
5300	60	Left	Tilt	/	17.62	18.0	0.083	0.09	0.238	0.26	0.18
5300	60	Right	Touch	/	17.62	18.0	0.042	0.05	0.118	0.13	0.10
5300	60	Right	Tilt	/	17.62	18.0	0.012	0.01	0.033	0.04	0.00
5700	140	Left	Touch	/	17.97	18.0	0.117	0.12	0.320	0.32	0.14
5700	140	Left	Tilt	/	17.97	18.0	0.041	0.04	0.116	0.12	0.10
5700	140	Right	Touch	/	17.97	18.0	0.035	0.04	0.101	0.10	0.11
5700	140	Right	Tilt	/	17.97	18.0	0.012	0.01	0.033	0.03	0.09
5745	149	Left	Touch	/	17.79	18.0	0.167	0.18	0.479	0.50	0.17
5745	149	Left	Tilt	/	17.79	18.0	0.057	0.06	0.162	0.17	0.12
5745	149	Right	Touch	/	17.79	18.0	0.051	0.05	0.146	0.15	0.16
5745	149	Right	Tilt	/	17.79	18.0	0.011	0.01	0.031	0.03	0.10

Table 14.27: SAR Values (Wi-Fi 802.11a - Body)

Ambient Temperature: 22.5 °C						Liquid Temperature: 22.0 °C				
Frequency		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)
MHz	Ch.									
5220	44	Front	/	16.83	17.0	0.037	0.04	0.090	0.09	0.15
5220	44	Rear	Fig.26	16.83	17.0	0.183	0.19	0.503	0.52	0.12
5220	44	Right	/	16.83	17.0	0.153	0.16	0.421	0.44	-0.05
5220	44	Top	/	16.83	17.0	0.021	0.02	0.051	0.05	0.11
5300	60	Front	/	17.62	18.0	0.020	0.02	0.055	0.06	0.11
5300	60	Rear	/	17.62	18.0	0.159	0.17	0.441	0.48	0.18
5300	60	Right	/	17.62	18.0	0.109	0.12	0.301	0.33	-0.14
5300	60	Top	/	17.62	18.0	0.009	0.01	0.024	0.03	0.13
5700	140	Front	/	17.97	18.0	0.025	0.03	0.069	0.07	0.10
5700	140	Rear	/	17.97	18.0	0.141	0.14	0.388	0.39	-0.17
5700	140	Right	/	17.97	18.0	0.119	0.12	0.332	0.33	0.18
5700	140	Top	/	17.97	18.0	0.011	0.01	0.029	0.03	0.14
5745	149	Front	/	17.79	18.0	0.024	0.03	0.067	0.07	0.10
5745	149	Rear	/	17.79	18.0	0.143	0.15	0.395	0.41	0.10
5745	149	Right	/	17.79	18.0	0.128	0.13	0.354	0.37	0.04
5745	149	Top	/	17.79	18.0	0.009	0.01	0.026	0.03	0.18

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.28: SAR Values (Wi-Fi 802.11n (20M) - Head)

Frequency		Side	Test Position	Figure No.	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C				
MHz	Ch.				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)
5300	60	Left	Touch	Fig.27	18.12	18.5	0.200	0.22	0.601	0.66	0.16
5300	60	Left	Tilt	/	18.12	18.5	0.037	0.04	0.113	0.12	0.06
5300	60	Right	Touch	/	18.12	18.5	0.060	0.07	0.183	0.20	0.00
5300	60	Right	Tilt	/	18.12	18.5	0.014	0.01	0.042	0.05	0.10
5700	140	Left	Touch	/	18.45	18.5	0.082	0.08	0.247	0.25	0.05
5700	140	Left	Tilt	/	18.45	18.5	0.036	0.04	0.109	0.11	0.11
5700	140	Right	Touch	/	18.45	18.5	0.025	0.03	0.077	0.08	0.00
5700	140	Right	Tilt	/	18.45	18.5	0.007	0.01	0.022	0.02	0.16

Table 14.29: SAR Values (Wi-Fi 802.11n (20M) - Body)

Frequency		Test Position	Figure No.	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C				
MHz	Ch.			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)
5300	60	Front	/	18.12	18.5	0.034	0.04	0.089	0.10	0.10
5300	60	Rear	Fig.28	18.12	18.5	0.123	0.13	0.324	0.35	0.09
5300	60	Right	/	18.12	18.5	0.114	0.12	0.303	0.33	-0.14
5300	60	Top	/	18.12	18.5	0.007	0.01	0.019	0.02	0.14
5700	140	Front	/	18.45	18.5	0.037	0.04	0.098	0.10	0.11
5700	140	Rear	/	18.45	18.5	0.126	0.13	0.329	0.33	0.10
5700	140	Right	/	18.45	18.5	0.111	0.11	0.301	0.30	0.08
5700	140	Top	/	18.45	18.5	0.008	0.01	0.021	0.02	-0.17

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.30: SAR Values (Wi-Fi 802.11n (40M) - Head)

Frequency		Side	Test Position	Figure No.	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C				
MHz	Ch.				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)
5310	62	Left	Touch	Fig.29	17.98	18.0	0.194	0.19	0.549	0.55	0.02
5310	62	Left	Tilt	/	17.98	18.0	0.077	0.08	0.218	0.22	0.13
5310	62	Right	Touch	/	17.98	18.0	0.060	0.06	0.155	0.16	0.14
5310	62	Right	Tilt	/	17.98	18.0	0.023	0.02	0.059	0.06	0.12

Table 14.31: SAR Values (Wi-Fi 802.11n (40M) - Body)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5310	62	Front	/	17.98	18.0	0.028	0.03	0.074	0.07	0.14
5310	62	Rear	Fig.30	17.98	18.0	0.175	0.18	0.492	0.49	0.01
5310	62	Right	/	17.98	18.0	0.151	0.15	0.427	0.43	-0.10
5310	62	Top	/	17.98	18.0	0.017	0.02	0.044	0.04	0.16

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.32: SAR Values (Wi-Fi 802.11ac (80M) - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5210	42	Left	Touch	Fig.31	16.31	17.0	0.195	0.23	0.566	0.66	0.10
5290	58	Left	Touch	/	17.85	18.0	0.191	0.20	0.562	0.58	0.15
5530	106	Left	Touch	/	17.94	18.0	0.150	0.15	0.460	0.47	-0.19
5610	122	Left	Touch	/	17.93	18.0	0.128	0.13	0.387	0.39	0.10
5775	155	Left	Touch	/	17.90	18.0	0.104	0.11	0.320	0.33	0.16

Table 14.33: SAR Values (Wi-Fi 802.11ac (80M) - Body)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5210	42	Rear	Fig.32	16.31	17.0	0.161	0.19	0.446	0.52	0.15
5290	58	Rear	/	17.85	18.0	0.143	0.15	0.426	0.44	-0.12
5530	106	Rear	/	17.94	18.0	0.117	0.12	0.343	0.35	0.10
5610	122	Rear	/	17.93	18.0	0.089	0.09	0.264	0.27	0.10
5775	155	Rear	/	17.9	18.0	0.059	0.06	0.174	0.18	0.10

Note1: The distance between the EUT and the phantom bottom is 15mm.

14.2 SAR results for Standard procedure

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

Table 14.34: SAR Values (GSM 850 MHz Band - Head) – AP OFF

Frequency		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)	
MHz	Ch.											
824.2		128	Right	Touch	Fig.1	33.26	34.0	0.467	0.55	0.607	0.72	-0.06

Table 14.35: SAR Values (GSM 850 MHz Band - Body) – AP OFF

Frequency		Mode (number of timeslots)	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)	
MHz	Ch.											
836.6		190	GPRS (3)	Front	Fig.2	29.63	31.0	0.645	0.88	0.858	1.18	-0.10

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.36: SAR Values (GSM 850 MHz Band - Body) – AP ON

Frequency		Mode (number of timeslots)	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)	
MHz	Ch.											
836.6		190	GPRS (4)	Rear	Fig.3	22.59	24.0	0.232	0.32	0.298	0.41	-0.03

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

Table 14.37: SAR Values (GSM 1900 MHz Band - Head) – AP OFF

Frequency		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)	
MHz	Ch.											
1850.2		512	Left	Touch	Fig.4	30.99	31.5	0.136	0.15	0.234	0.26	0.11

Table 14.38: SAR Values (GSM 1900 MHz Band - Body) – AP OFF

Frequency		Mode (number of timeslots)	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)	
MHz	Ch.											
1909.8		810	GPRS (4)	Rear	Fig.5	25.76	27.0	0.356	0.47	0.613	0.82	-0.17

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.39: SAR Values (GSM 1900 MHz Band - Body) – AP ON

Frequency		Mode (number of timeslots)	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)	
MHz	Ch.											
1909.8		810	GPRS (4)	Rear	Fig.6	19.81	21.0	0.199	0.26	0.368	0.48	0.02

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

Table 14.40: SAR Values (WCDMA 850 MHz Band - Head) – AP OFF

Frequency		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)
MHz	Ch.										
Ambient Temperature: 22.6 °C						Liquid Temperature: 22.1 °C					
836.4	4182	Left	Touch	Fig.7	24.22	24.5	0.444	0.47	0.575	0.61	-0.08

Table 14.41: SAR Values (WCDMA 850 MHz Band - Body) – AP OFF

Frequency		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)
MHz	Ch.									
Ambient Temperature: 22.6 °C					Liquid Temperature: 22.1 °C					
846.6	4233	Rear	Fig.8	24.27	24.5	0.582	0.61	0.754	0.80	0.14

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.42: SAR Values (WCDMA 850 MHz Band - Body) – AP ON

Frequency		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)
MHz	Ch.									
Ambient Temperature: 22.6 °C					Liquid Temperature: 22.1 °C					
836.4	4182	Rear	Fig.9	18.35	20.0	0.165	0.24	0.214	0.31	0.01

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

Table 14.43: SAR Values (WCDMA 1700 MHz Band - Head) – APP OFF

Frequency		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)
MHz	Ch.										
Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °C					
1752.6	1513	Right	Touch	Fig.10	24.36	25.0	0.202	0.23	0.335	0.39	0.05

Table 14.44: SAR Values (WCDMA 1700 MHz Band - Body) – AP OFF

Frequency		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)
MHz	Ch.									
Ambient Temperature: 22.7 °C					Liquid Temperature: 22.2 °C					
846.6	4233	Bottom	Fig.11	24.36	25.0	0.616	0.71	1.08	1.25	0.08

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.45: SAR Values (WCDMA 1700 MHz Band - Body) – AP ON

Frequency		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)
MHz	Ch.									
Ambient Temperature: 22.7 °C					Liquid Temperature: 22.2 °C					
846.6	4233	Front	Fig.12	18.17	19.5	0.251	0.34	0.464	0.63	0.06

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

Table 14.46: SAR Values (WCDMA 1900 MHz Band - Head) – AP OFF

Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °C					
Frequency		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)
MHz	Ch.										
1880	9400	Left	Touch	Fig.13	23.76	24.0	0.210	0.22	0.343	0.36	-0.16

Table 14.47: SAR Values (WCDMA 1900 MHz Band - Body) – AP OFF

Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °C				
Frequency		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)
MHz	Ch.									
1907.6	9538	Bottom Headset	Fig.14	23.74	24.0	0.545	0.58	0.936	0.99	0.01

Note1: The distance between the EUT and the phantom bottom is 15mm. Note2: The type of Headset is MH750c

Table 14.48: SAR Values (WCDMA 1900 MHz Band - Body) – AP ON

Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °C				
Frequency		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)
MHz	Ch.									
1880	9400	Rear	Fig.15	17.73	19.0	0.247	0.33	0.451	0.60	0.10

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

Table 14.49: SAR Values (LTE Band4 - Head) – AP OFF

Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °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)
MHz	Ch.											
1732.5	20175	1RB_High	Right	Touch	Fig.16	23.79	24.0	0.166	0.17	0.258	0.27	0.10

Note1: The LTE mode is QPSK_20MHz.

Table 14.50: SAR Values (LTE Band4 - Body) – AP OFF

Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °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)
MHz	Ch.										
1745	20300	1RB_High	Bottom	Fig.17	23.73	24.0	0.522	0.56	0.928	0.99	0.06

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.51: SAR Values (LTE Band4 - Body) – AP ON

Ambient Temperature: 22.7 °C						Liquid Temperature: 22.2 °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)
MHz	Ch.										
1732.5	20175	1RB_Low	Front	Fig.18	18.00	19.0	0.229	0.29	0.427	0.54	-0.15

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

Note2: The LTE mode is QPSK_20MHz.

Table 14.52: SAR Values (LTE Band17 - Head) – AP OFF

Ambient Temperature: 22.6 °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)
MHz	Ch.											
709	23780	1RB_Mid	Left	Touch	Fig.19	23.87	24.0	0.159	0.16	0.195	0.20	-0.14

Note1: The LTE mode is QPSK_10MHz.

Table 14.53: SAR Values (LTE Band17 - Body) – AP OFF

Ambient Temperature: 22.6 °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)
MHz	Ch.										
709	23780	1RB_Mid	Rear	Fig.20	23.87	24.0	0.244	0.25	0.306	0.32	0.01

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.54: SAR Values (LTE Band17 - Body) – AP ON

Ambient Temperature: 22.6 °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)
MHz	Ch.										
710	23790	1RB_Mid	Rear	Fig.21	21.48	22.0	0.211	0.24	0.269	0.30	0.03

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

Note2: The LTE mode is QPSK_10MHz.

Table 14.55: SAR Values (Wi-Fi 802.11b - Head) – AP OFF

Ambient Temperature: 22.6 °C						Liquid Temperature: 22.1 °C					
Frequency		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)
MHz	Ch.										
2437	6	Left	Touch	Fig.22	19.50	20.0	0.303	0.34	0.614	0.69	-0.17

Table 14.56: SAR Values (Wi-Fi 802.11b - Body) – AP OFF

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.6 °C		Liquid Temperature: 22.1 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
2412	1	Rear	Fig.23	19.04	20.0	0.186	0.23	0.358	0.45	-0.05

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.57: SAR Values (Wi-Fi 802.11b - Body) – AP ON

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.6 °C		Liquid Temperature: 22.1 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
2437	6	Rear	Fig.24	15.52	16.0	0.210	0.23	0.458	0.51	0.14

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

Table 14.58: SAR Values (Wi-Fi 802.11a - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5300	60	Left	Touch	Fig.25	17.62	18.0	0.172	0.19	0.492	0.54	0.18

Table 14.59: SAR Values (Wi-Fi 802.11a - Body)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5220	44	Rear	Fig.26	16.83	17.0	0.183	0.19	0.503	0.52	0.12

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.60: SAR Values (Wi-Fi 802.11n (20M) - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5300	60	Left	Touch	Fig.27	18.12	18.5	0.200	0.22	0.601	0.66	0.16

Table 14.61: SAR Values (Wi-Fi 802.11n (20M) - Body)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5300	60	Rear	Fig.28	18.12	18.5	0.123	0.13	0.324	0.35	0.09

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.62: SAR Values (Wi-Fi 802.11n (40M) - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5310	62	Left	Touch	Fig.29	17.98	18.0	0.194	0.19	0.549	0.55	0.02

Table 14.63: SAR Values (Wi-Fi 802.11n (40M) - Body)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5310	62	Rear	Fig.30	17.98	18.0	0.175	0.18	0.492	0.49	0.01

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.64: SAR Values (Wi-Fi 802.11ac (80M) - Head)

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5210	42	Left	Touch	Fig.31	16.31	17.0	0.195	0.23	0.566	0.66	0.10

Table 14.65: SAR Values (Wi-Fi 802.11ac (80M) - Body)

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.5 °C		Liquid Temperature: 22.0 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
5210	42	Rear	Fig.32	16.31	17.0	0.161	0.19	0.446	0.52	0.15

Note1: The distance between the EUT and the phantom bottom is 15mm.

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 (~ 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 Body GSM 850 (1g) – AP OFF

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
836.6	190	Front	15	0.858	0.851	1.01	/

Table 15.2: SAR Measurement Variability for Body WCDMA 1700 (1g) – AP OFF

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
846.6	4233	Bottom	15	1.08	1.06	1.02	/

Table 15.3: SAR Measurement Variability for Body WCDMA 1900 (1g) – AP OFF

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
1907.6	9538	Bottom Headset	15	0.936	0.933	1.00	/

Table 15.4: SAR Measurement Variability for Body LTE Band4 (1g) – AP OFF

Frequency		Mode	Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.							
1745	20300	1RB_High	Bottom	15	0.928	0.923	1.01	/

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	5.5	N	1	1	1	5.5	5.5	∞
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	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	$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$							9.25	9.12	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$							18.5	18.2	

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	6.5	N	1	1	1	6.5	6.5	∞
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	RF ambient 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 (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		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.8	10.7	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.6	21.4	

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	5.5	N	1	1	1	5.5	5.5	∞
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	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	∞
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		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.1	9.95	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.2	19.9	

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	6.5	N	1	1	1	6.5	6.5	∞
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	RF ambient 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	A	3.3	N	1	1	1	3.3	3.3	71

	positioning									
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		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.3	13.2	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						26.6	26.4	

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	February 15, 2013	One year
02	Power meter	NRVD	102083	September 11, 2013	One year
03	Power sensor	NRV-Z5	100542		
04	Signal Generator	E4438C	MY49070393	November 13, 2012	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	E5515C	MY50263375	January 30, 2013	One year
07	BTS	CMW500	129942	March 12, 2013	One year
08	E-field Probe	SPEAG EX3DV4	3846	December 20, 2012	One year
09	E-field Probe	SPEAG EX3DV4	3846	September 03, 2013	One year
10	DAE	SPEAG DAE4	771	November 20, 2012	One year
11	Dipole Validation Kit	SPEAG D750V3	1017	August 29, 2013	One year
12	Dipole Validation Kit	SPEAG D835V2	443	August 29, 2013	One year
13	Dipole Validation Kit	SPEAG D1750V2	1003	September 03, 2013	One year
14	Dipole Validation Kit	SPEAG D1900V2	5d101	July 09, 2013	One year
15	Dipole Validation Kit	SPEAG D2450V2	853	July 08, 2013	One year
16	Dipole Validation Kit	SPEAG D5GHzV2	1060	July 03, 2013	One year

END OF REPORT BODY

ANNEX A Graph Results

850 Right Cheek Low

Date: 2013-9-15

Electronics: DAE4 Sn771

Medium: Head 850 MHz

Medium parameters used: $f = 825$ MHz; $\sigma = 0.906$ mho/m; $\epsilon_r = 41.001$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN3846 ConvF(9.18, 9.18, 9.18)

Cheek Low/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.646 W/kg

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

Reference Value = 5.868 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.467 W/kg

Maximum value of SAR (measured) = 0.636 W/kg

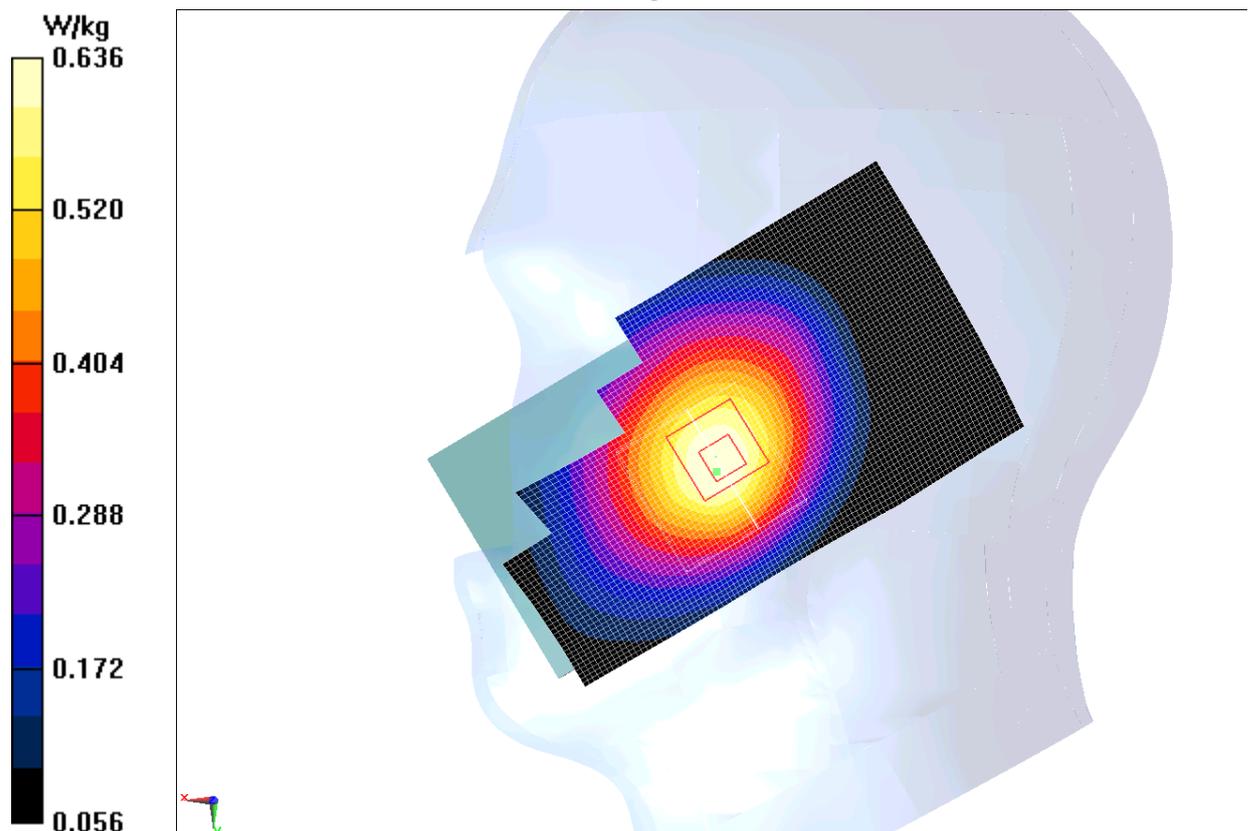


Fig.1 850MHz CH128

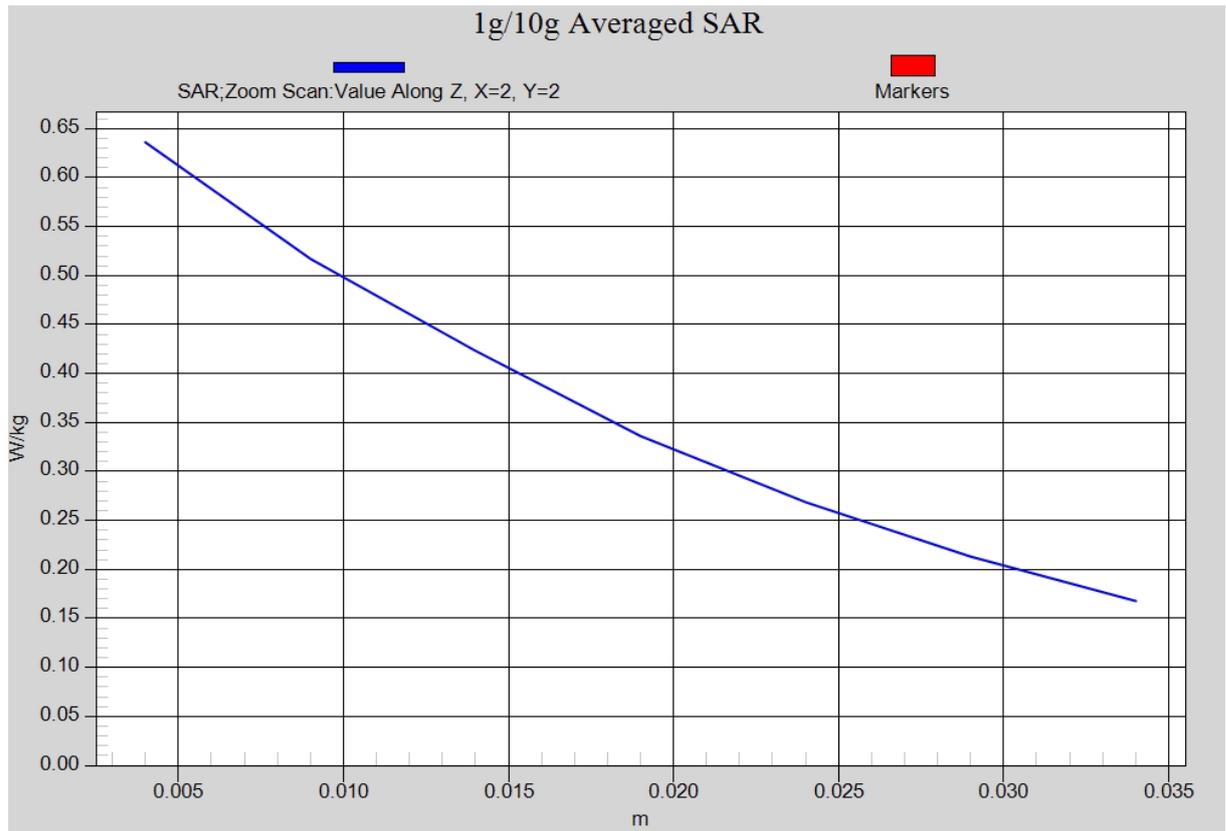


Fig. 1-1 Z-Scan at power reference point (850 MHz CH128)

850 Body Front Middle – AP OFF

Date: 2013-9-15

Electronics: DAE4 Sn771

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 54.599$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 - SN3846 ConvF(9.04, 9.04, 9.04)

Front Middle/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.896 W/kg

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

Reference Value = 30.720 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.858 W/kg; SAR(10 g) = 0.645 W/kg

Maximum value of SAR (measured) = 0.863 W/kg

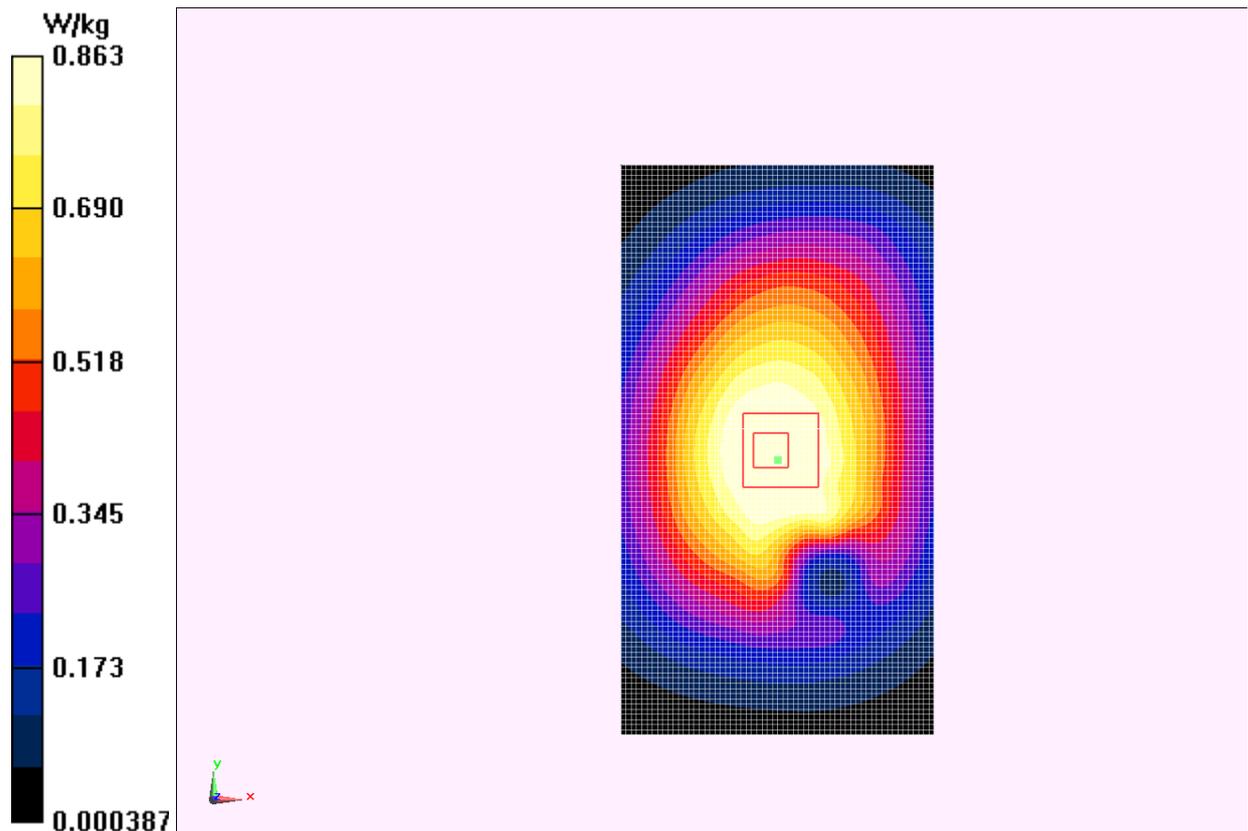


Fig.2 850 MHz CH190

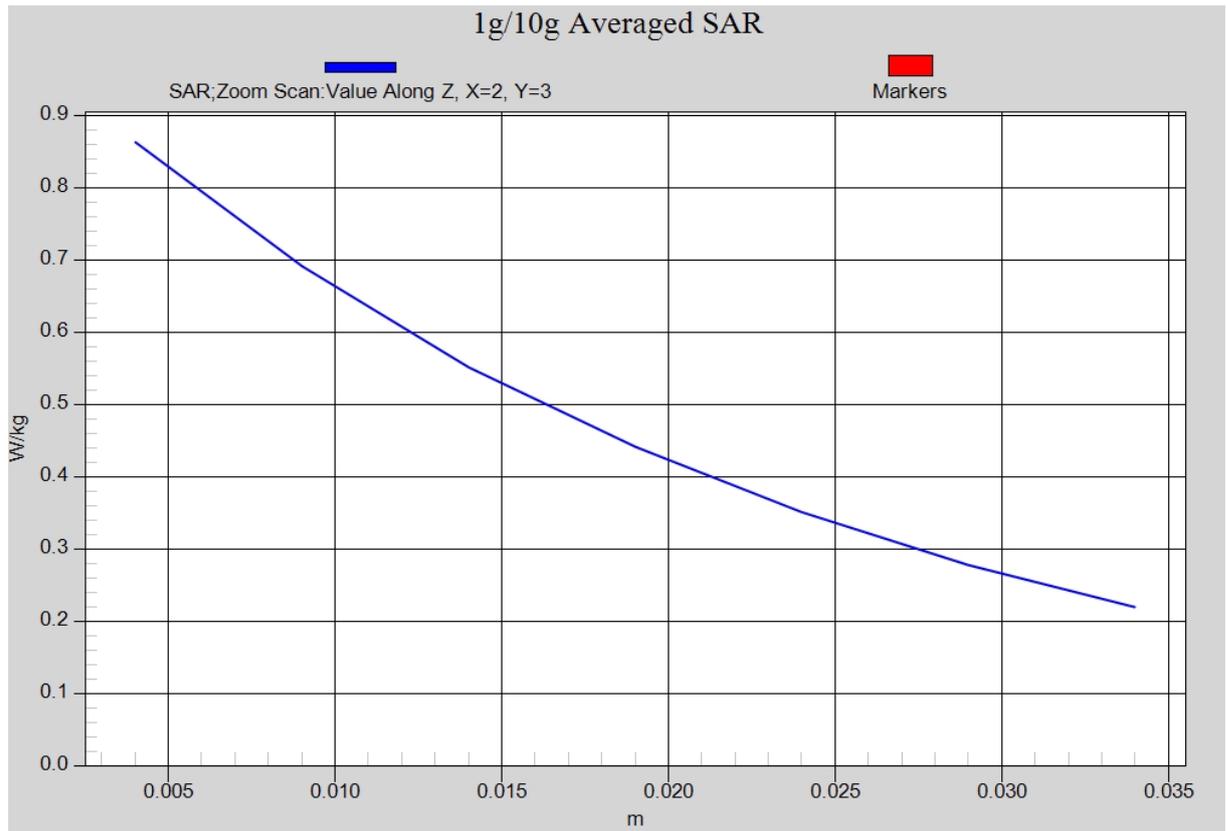


Fig. 2-1 Z-Scan at power reference point (850 MHz CH190)

850 Body Rear Middle – AP ON

Date: 2013-9-15

Electronics: DAE4 Sn771

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.985$ mho/m; $\epsilon_r = 54.599$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN3846 ConvF(9.04, 9.04, 9.04)

Rear Middle/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.345 W/kg

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

Reference Value = 17.981 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.341 W/kg

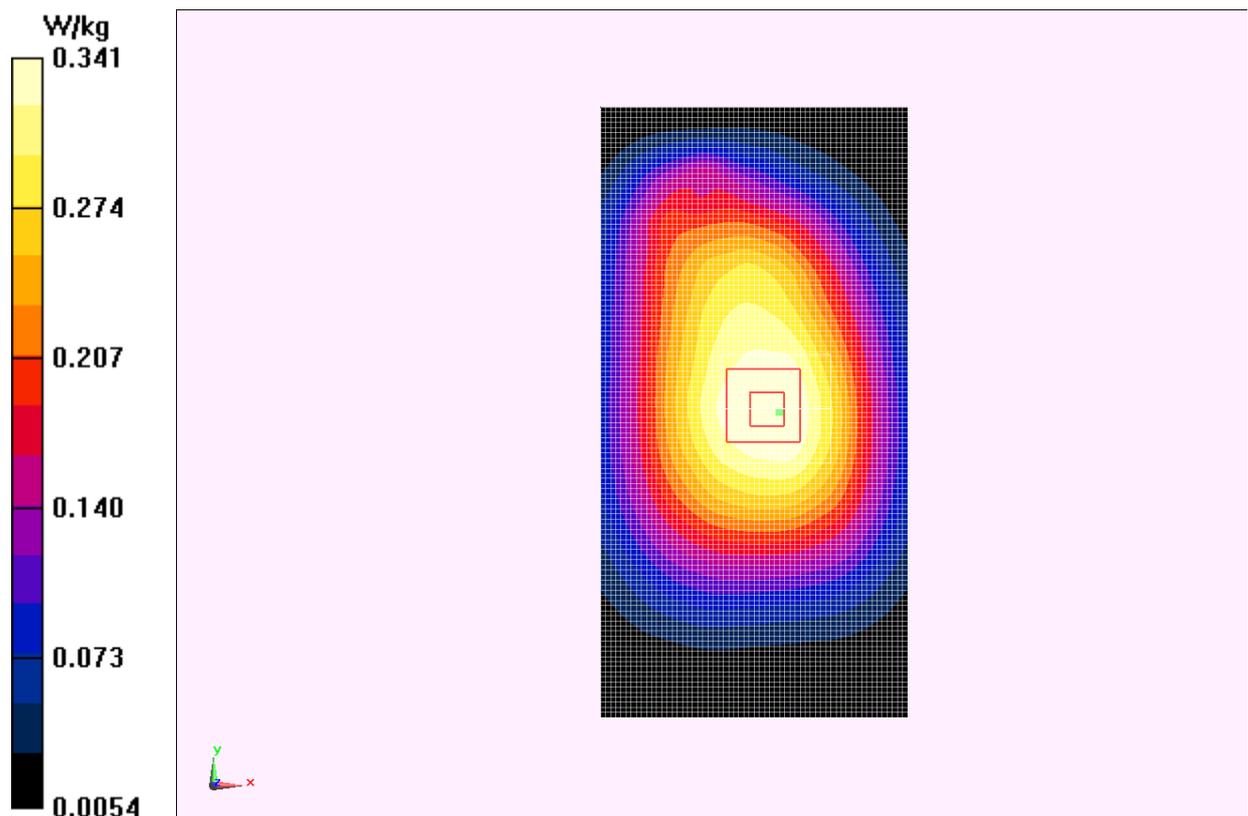


Fig.3 850 MHz CH190

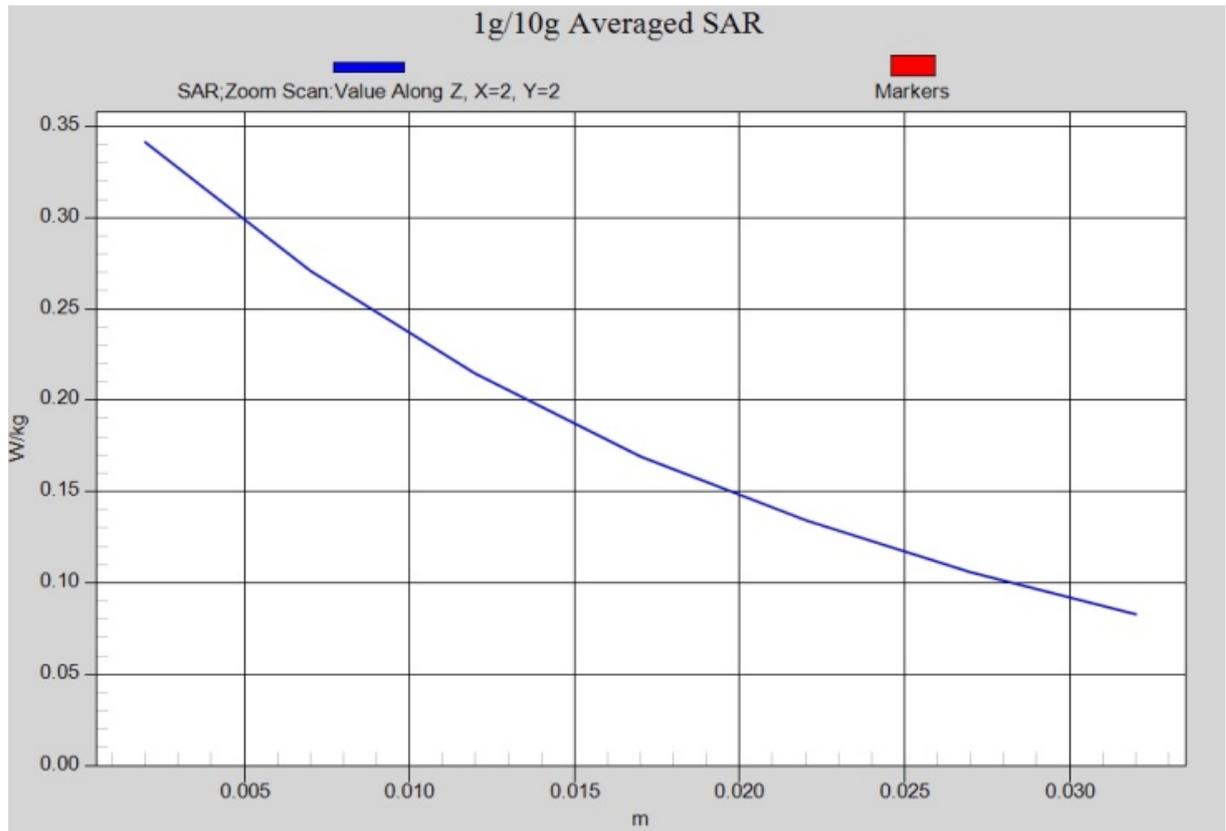


Fig. 3-1 Z-Scan at power reference point (850 MHz CH190)

1900 Left Cheek Low

Date: 2013-9-16

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.386$ mho/m; $\epsilon_r = 39.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3846 ConvF(8.01, 8.01, 8.01)

Cheek Low/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.264 W/kg

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

Reference Value = 2.351 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.253 W/kg

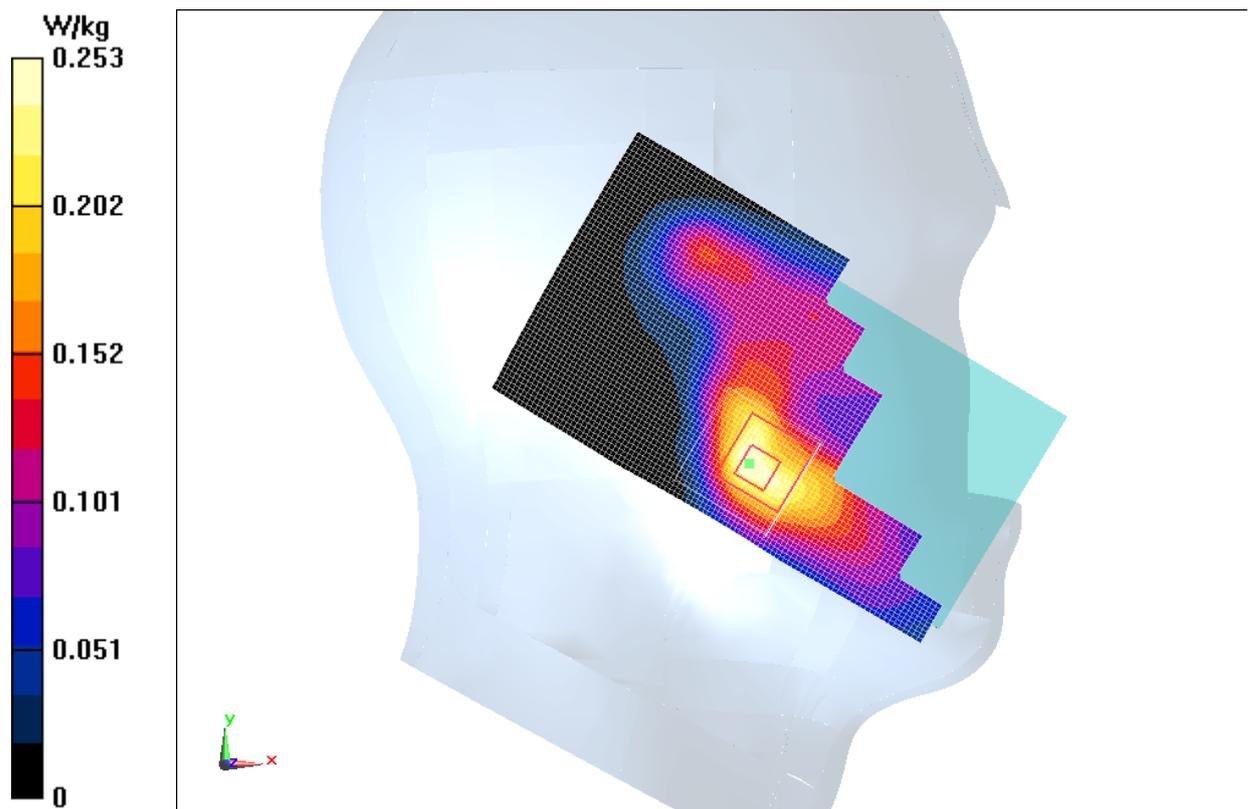


Fig.4 1900 MHz CH512

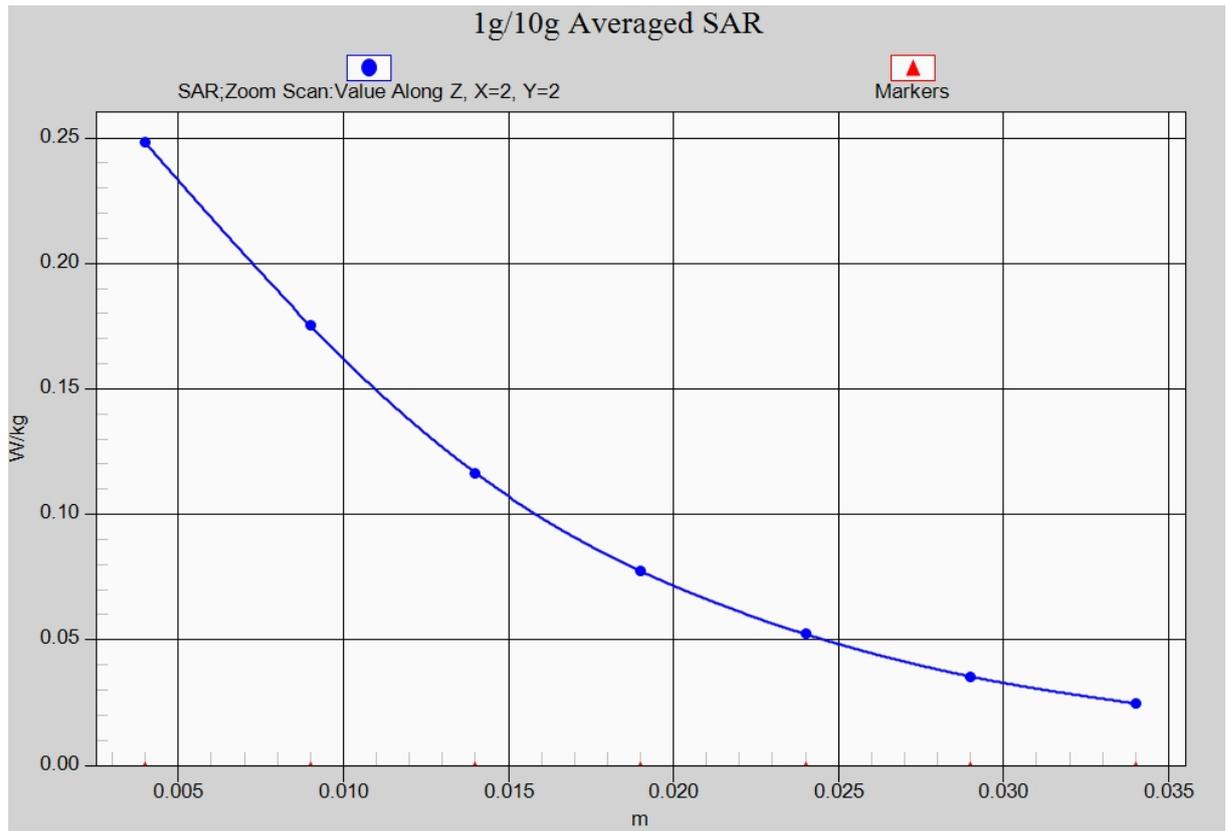


Fig. 4-1 Z-Scan at power reference point (1900 MHz CH512)

1900 Body Rear High – AP OFF

Date: 2013-9-16

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.521$ mho/m; $\epsilon_r = 51.936$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN3846 ConvF(7.37, 7.37, 7.37)

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

Maximum value of SAR (interpolated) = 0.651 W/kg

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

Reference Value = 12.529 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.356 W/kg

Maximum value of SAR (measured) = 0.695 W/kg

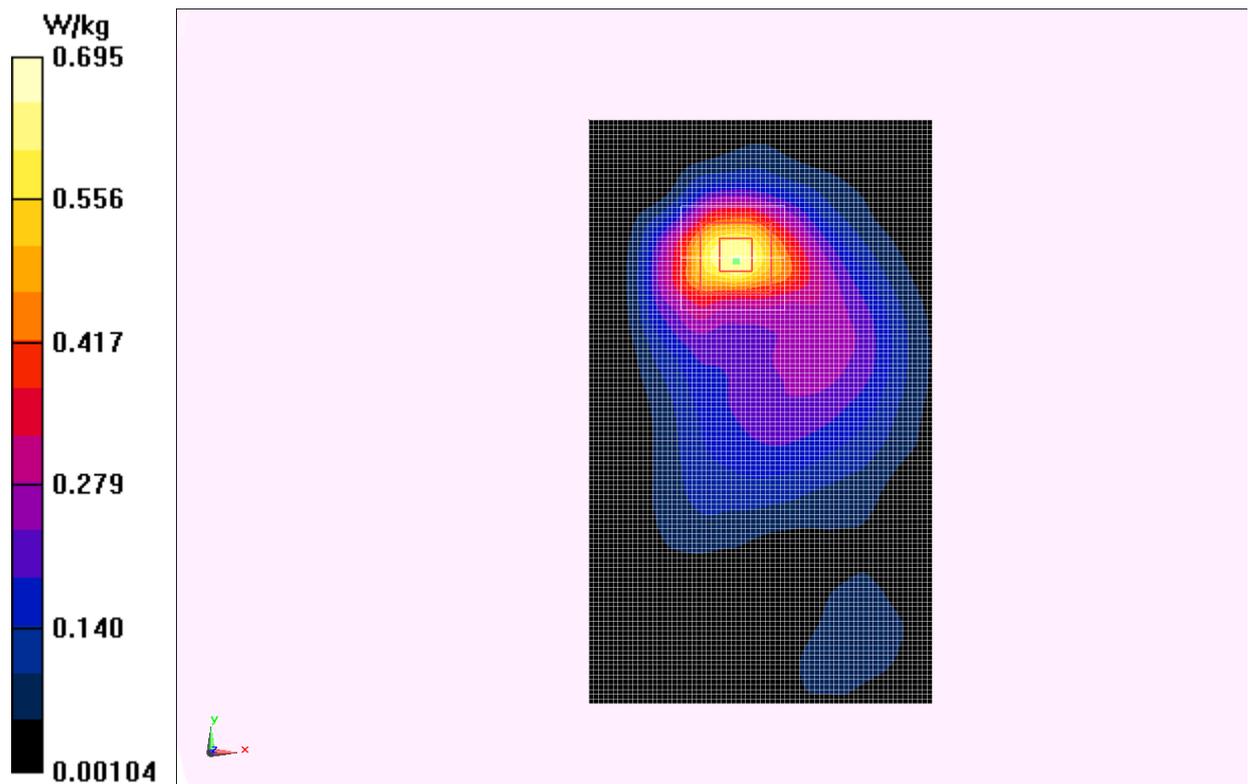


Fig.5 1900 MHz CH810

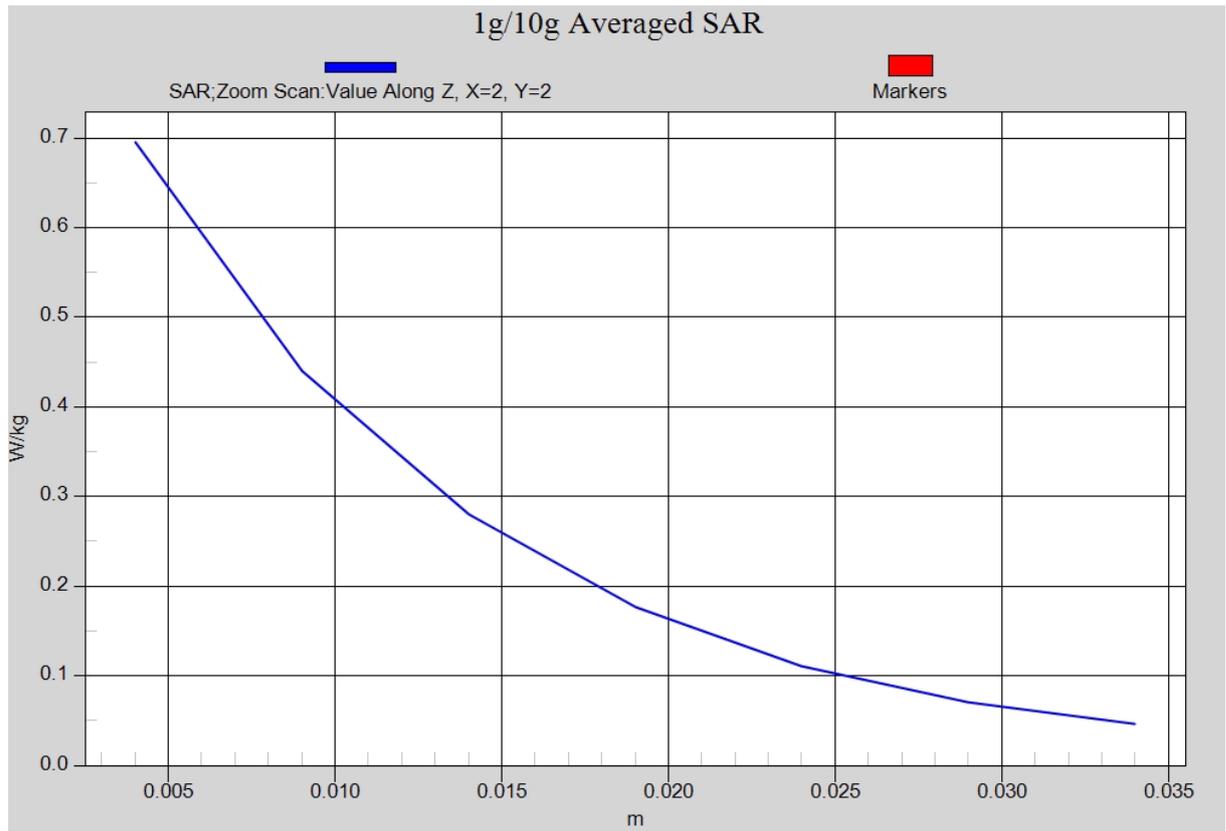


Fig.5-1 Z-Scan at power reference point (1900 MHz CH810)

1900 Body Rear High – AP ON

Date: 2013-9-16

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.521$ mho/m; $\epsilon_r = 51.936$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN3846 ConvF(7.37, 7.37, 7.37)

Rear High/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.428 W/kg

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

Reference Value = 6.508 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.199 W/kg

Maximum value of SAR (measured) = 0.404 W/kg

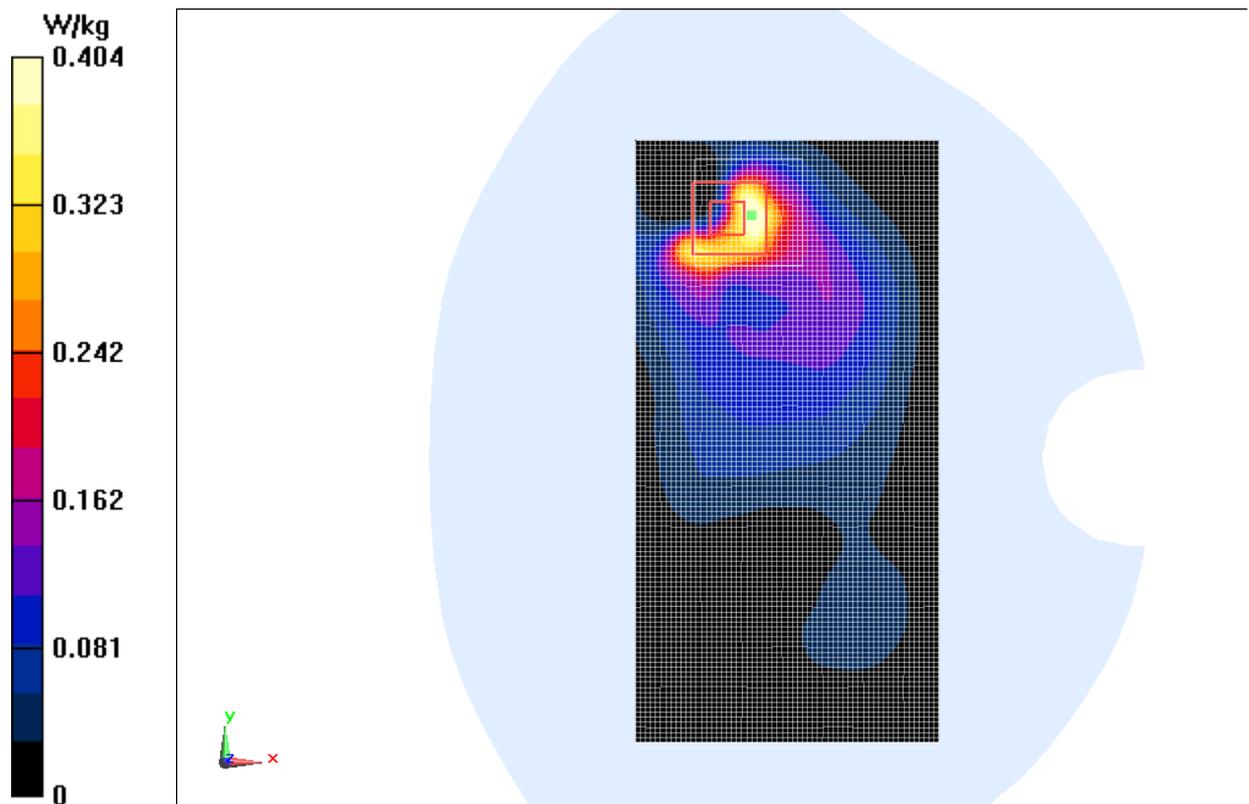


Fig.6 1900 MHz CH810

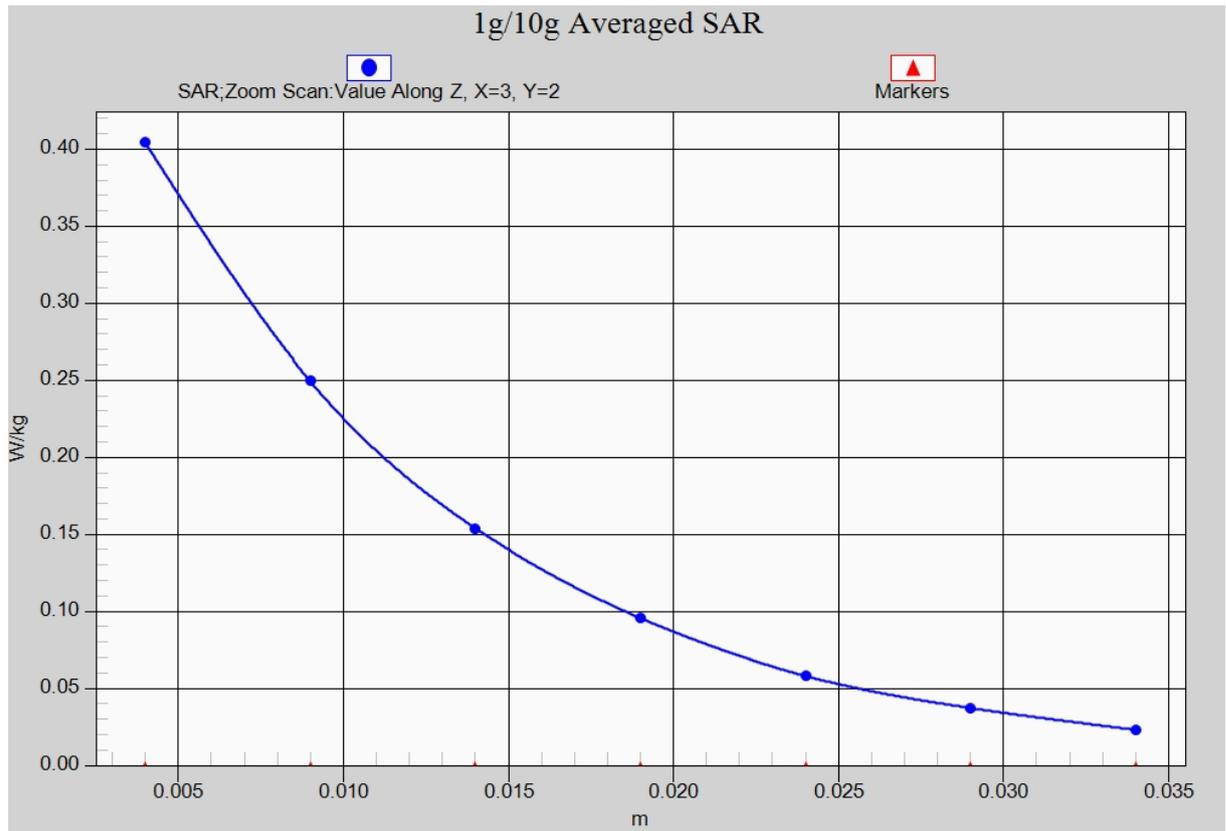


Fig.6-1 Z-Scan at power reference point (1900 MHz CH810)

WCDMA 850 Left Cheek Middle

Date: 2013-9-15

Electronics: DAE4 Sn771

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.914$ mho/m; $\epsilon_r = 40.847$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN3846 ConvF(9.18, 9.18, 9.18)

Cheek Middle/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.619 W/kg

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

Reference Value = 5.797 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.697 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.444 W/kg

Maximum value of SAR (measured) = 0.606 W/kg

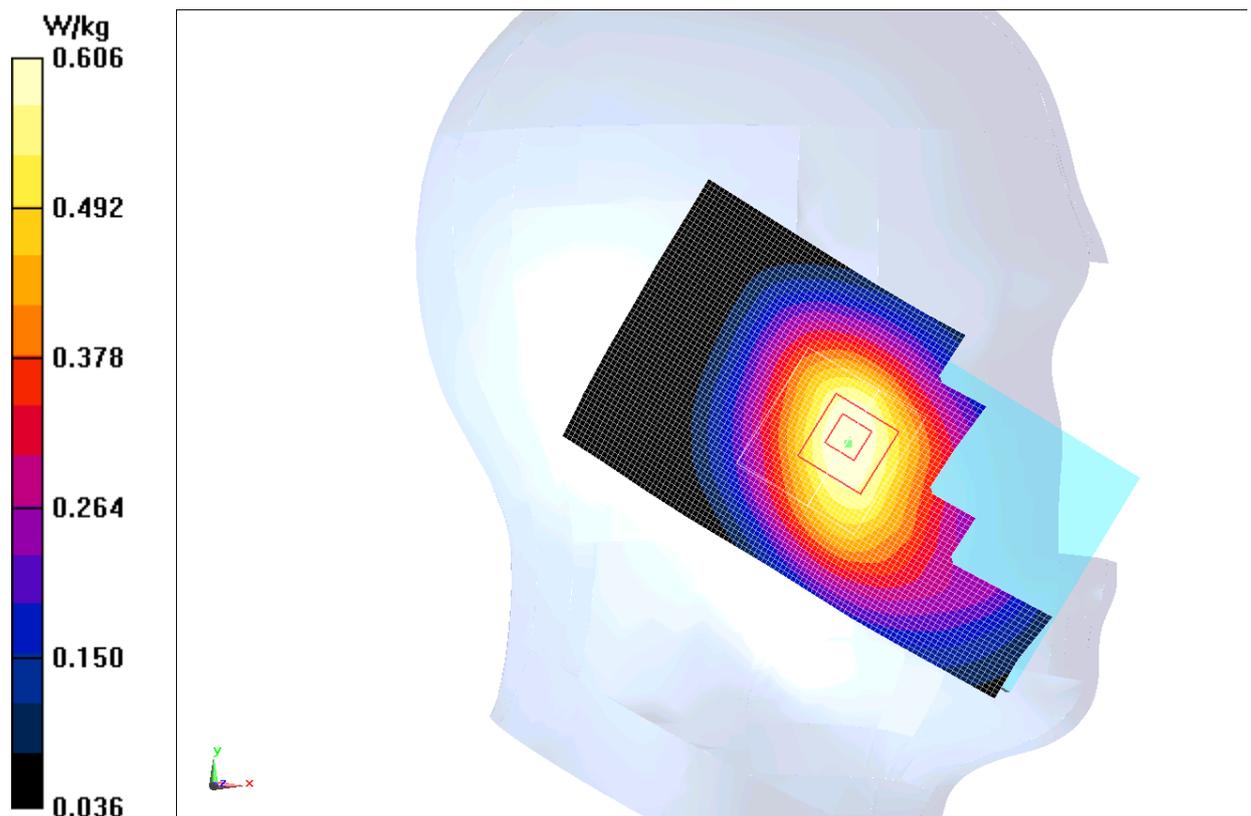


Fig.7 WCDMA 850 CH4182

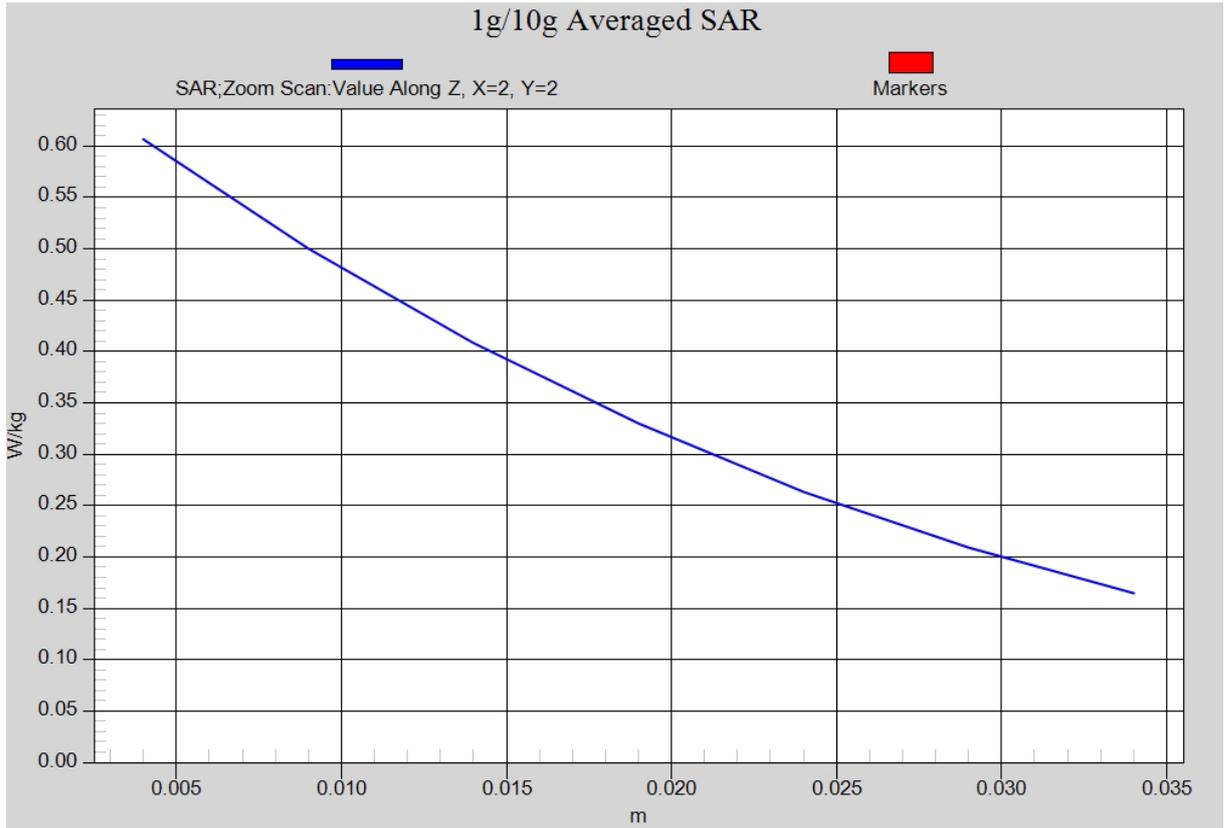


Fig. 7-1 Z-Scan at power reference point (WCDMA 850 CH4182)

WCDMA 850 Body Rear High – AP OFF

Date: 2013-9-15

Electronics: DAE4 Sn771

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.994$ mho/m; $\epsilon_r = 54.476$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN3846 ConvF(9.04, 9.04, 9.04)

Rear High/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.802 W/kg

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

Reference Value = 26.502 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.917 W/kg

SAR(1 g) = 0.754 W/kg; SAR(10 g) = 0.582 W/kg

Maximum value of SAR (measured) = 0.792 W/kg

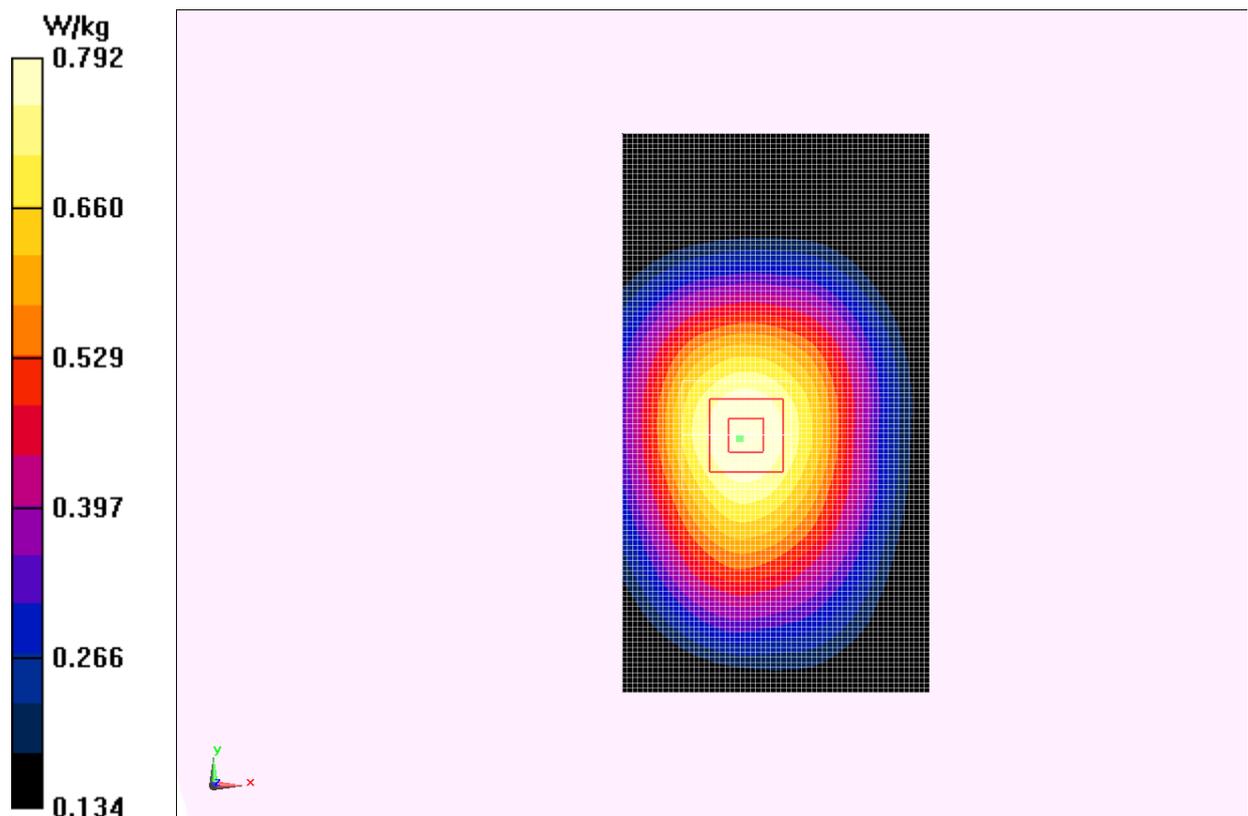


Fig.8 WCDMA 850 CH4233

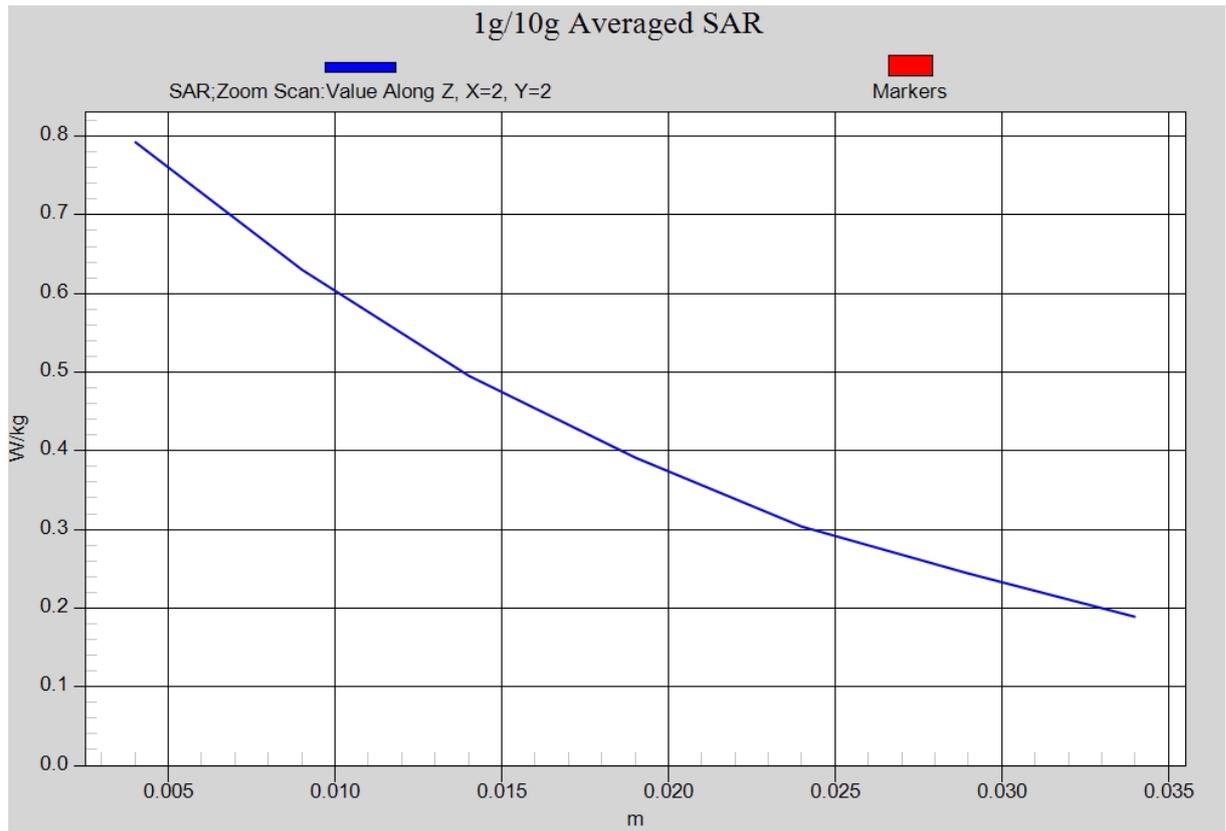


Fig. 8-1 Z-Scan at power reference point (WCDMA850 CH4233)

WCDMA 850 Body Rear Middle – AP ON

Date: 2013-9-15

Electronics: DAE4 Sn771

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.984$ mho/m; $\epsilon_r = 54.601$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN3846 ConvF(9.04, 9.04, 9.04)

Rear Middle/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.244 W/kg

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

Reference Value = 14.809 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.244 W/kg

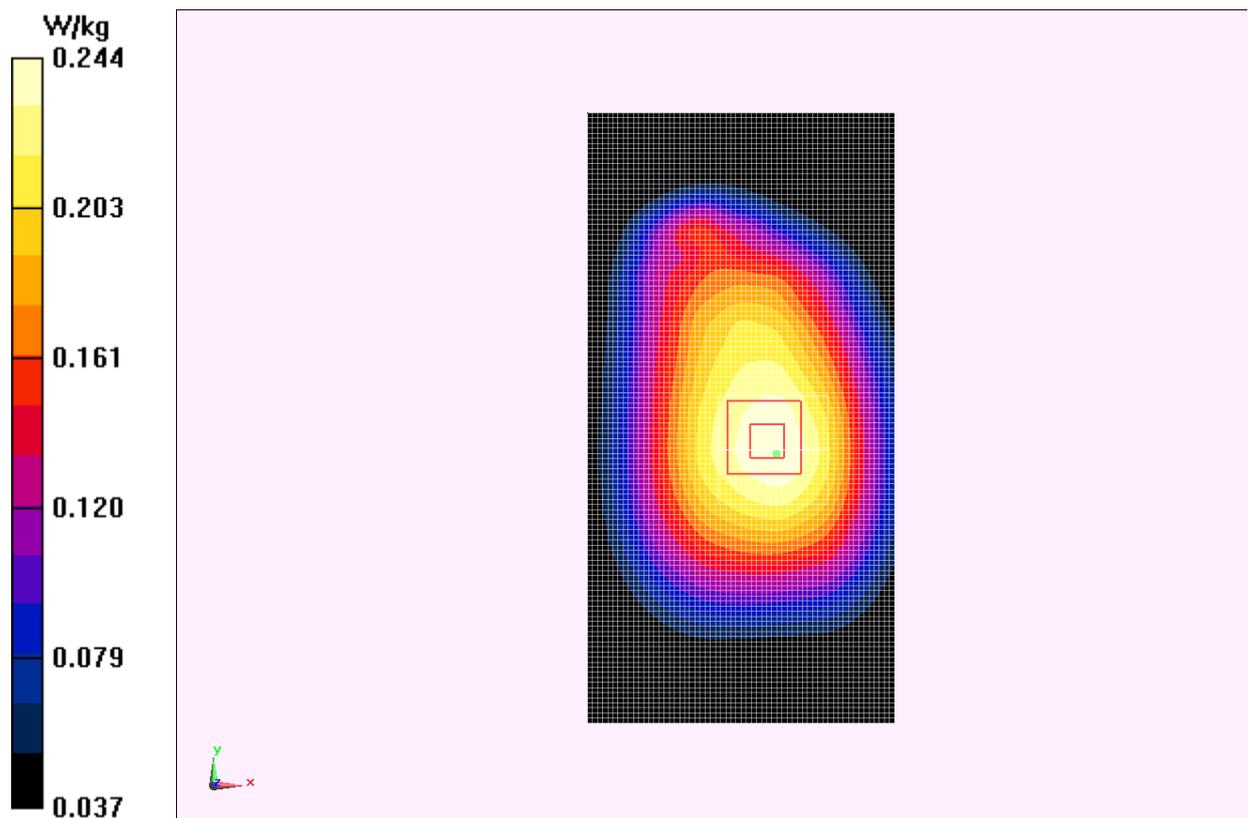


Fig.9 WCDMA 850 CH4182

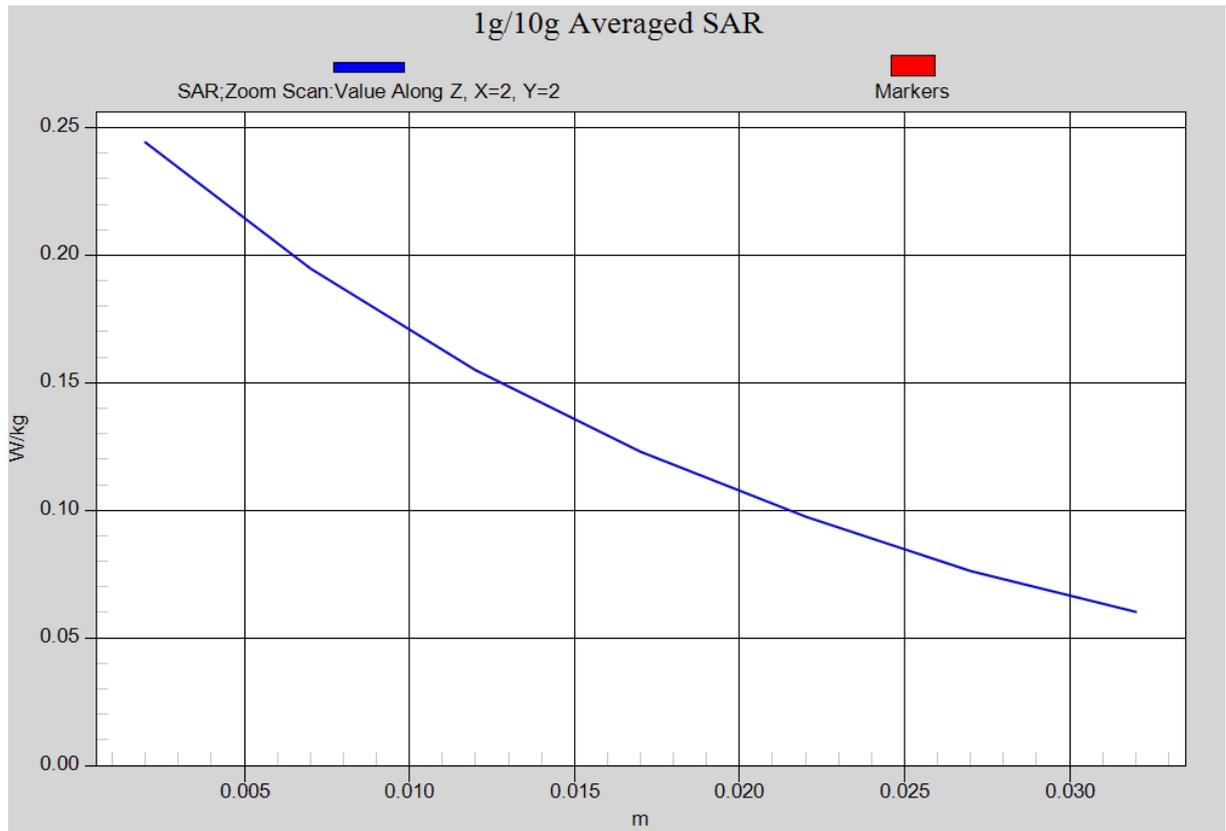


Fig. 9-1 Z-Scan at power reference point (WCDMA850 CH4182)

WCDMA 1700 Right Cheek High

Date: 2013-9-17

Electronics: DAE4 Sn771

Medium: Head 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.367$ mho/m; $\epsilon_r = 40.952$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.39, 8.39, 8.39)

Cheek High/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.367 W/kg

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

Reference Value = 4.353 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.514 W/kg

SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.202 W/kg

Maximum value of SAR (measured) = 0.361 W/kg

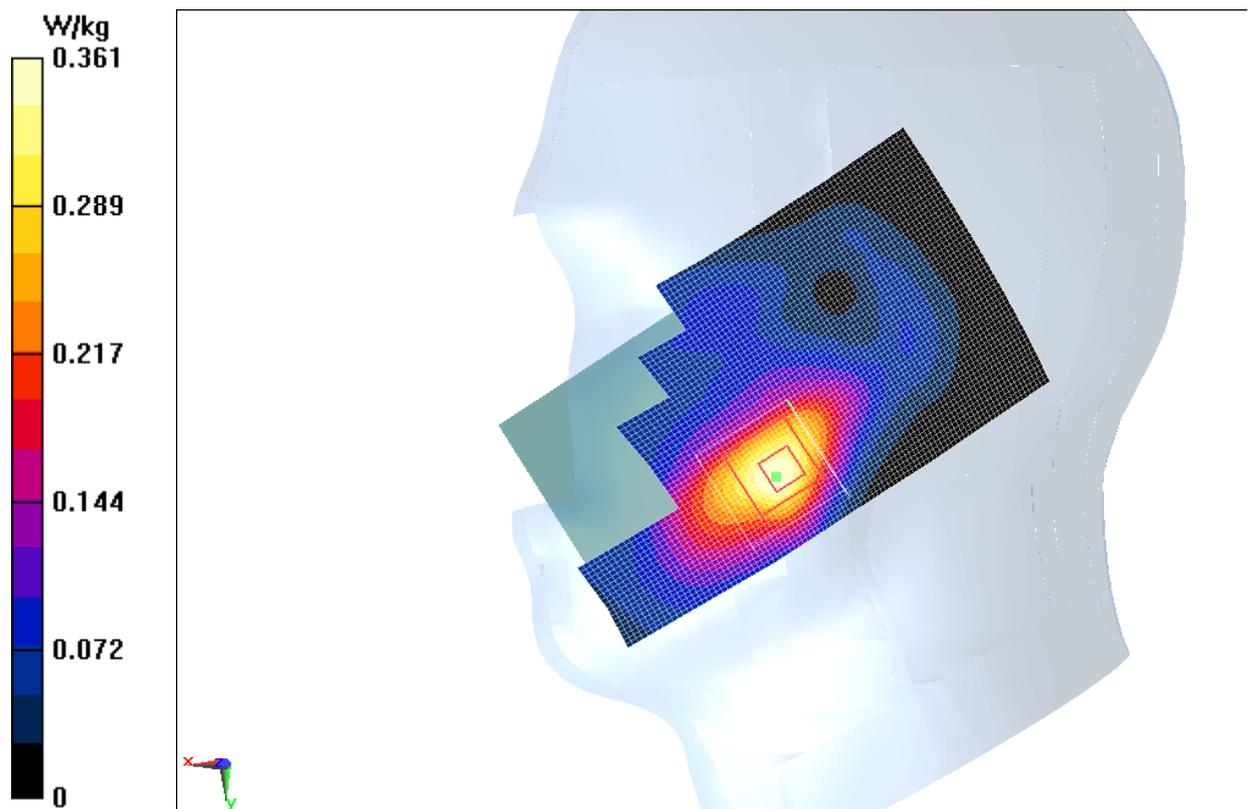


Fig.10 1700MHz CH1513

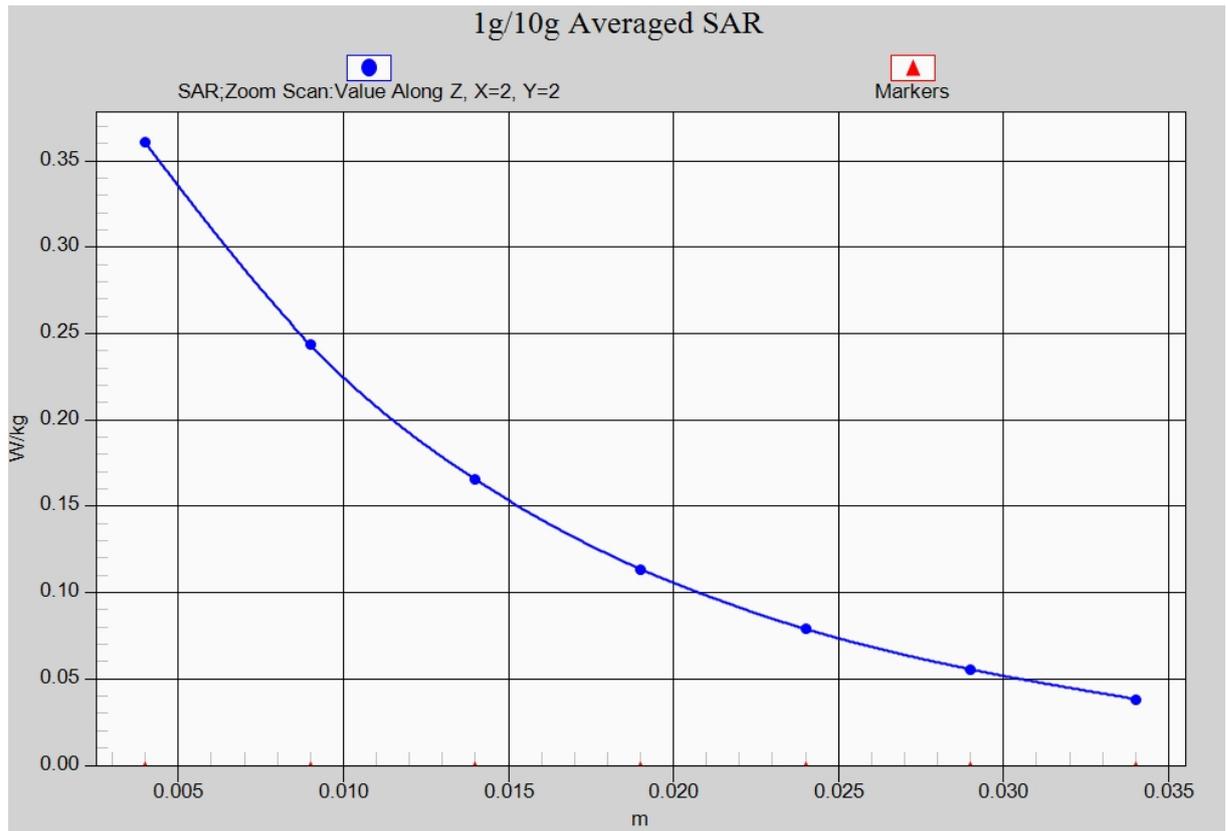


Fig. 10-1 Z-Scan at power reference point (1700 MHz CH1513)

WCDMA 1700 Body Bottom Edge High – AP OFF

Date: 2013-9-17

Electronics: DAE4 Sn771

Medium: Body 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.517$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.63, 7.63, 7.63)

Bottom Edge High/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

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

Reference Value = 20.760 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.616 W/kg

Maximum value of SAR (measured) = 1.20 W/kg

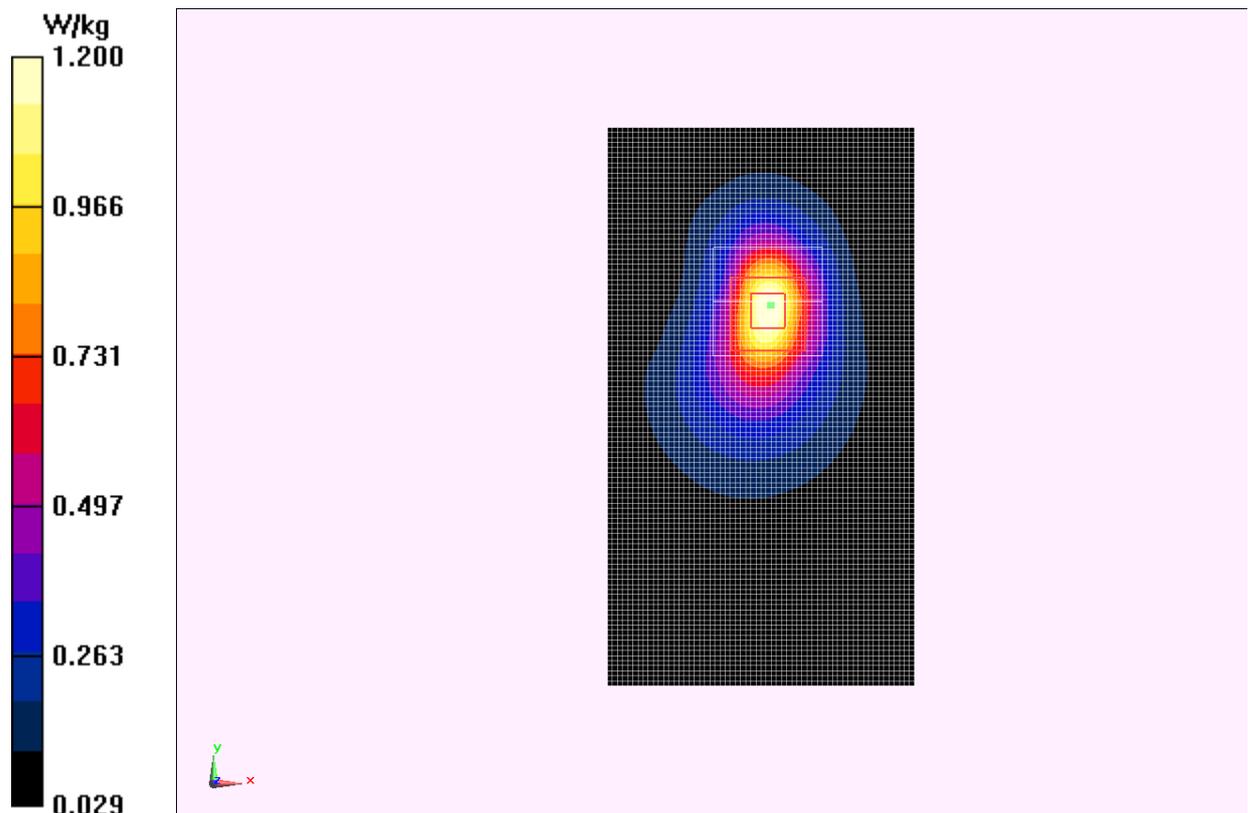


Fig.11 1700 MHz CH1513

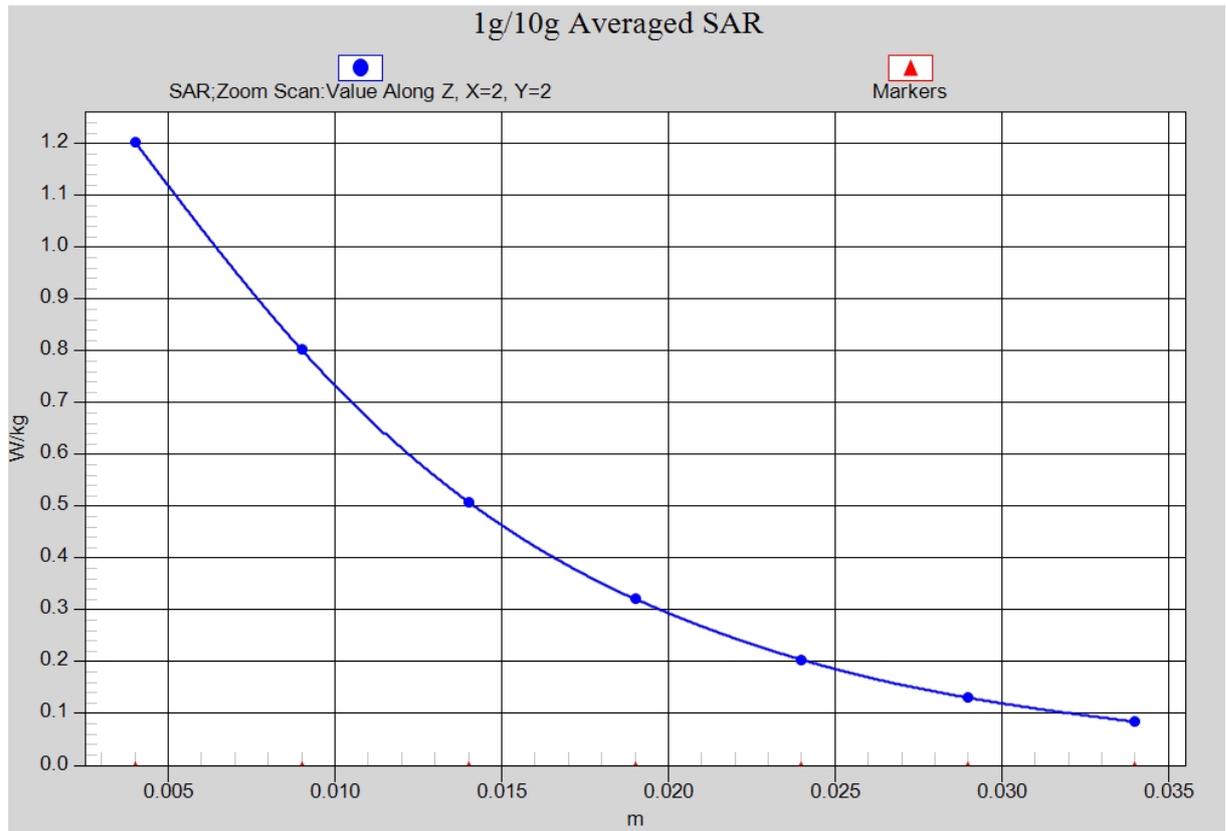


Fig. 11-1 Z-Scan at power reference point (1700 MHz CH1513)

WCDMA 1700 Body Front High – AP ON

Date: 2013-9-17

Electronics: DAE4 Sn771

Medium: Body 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.517$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.63, 7.63, 7.63)

Front High/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.472 W/kg

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

Reference Value = 6.850 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.721 W/kg

SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.251 W/kg

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

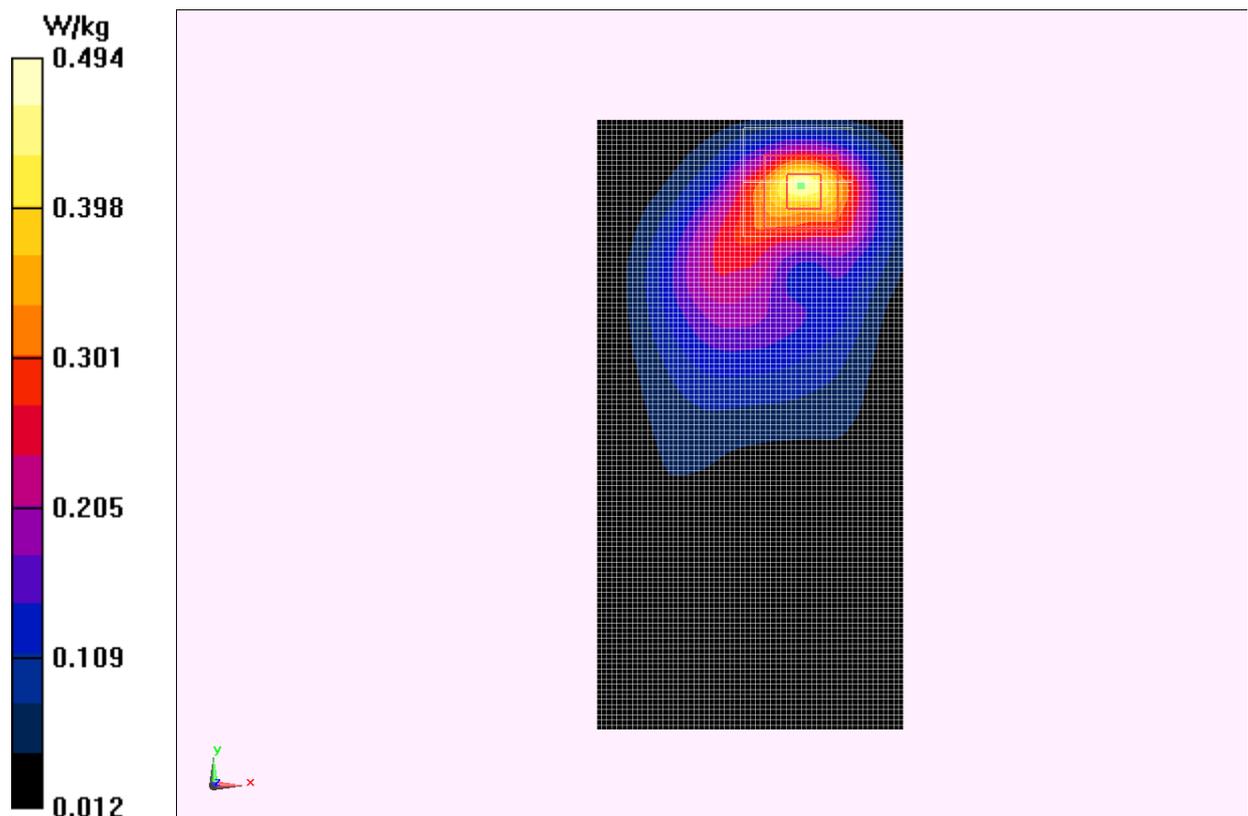


Fig.12 1700 MHz CH1513

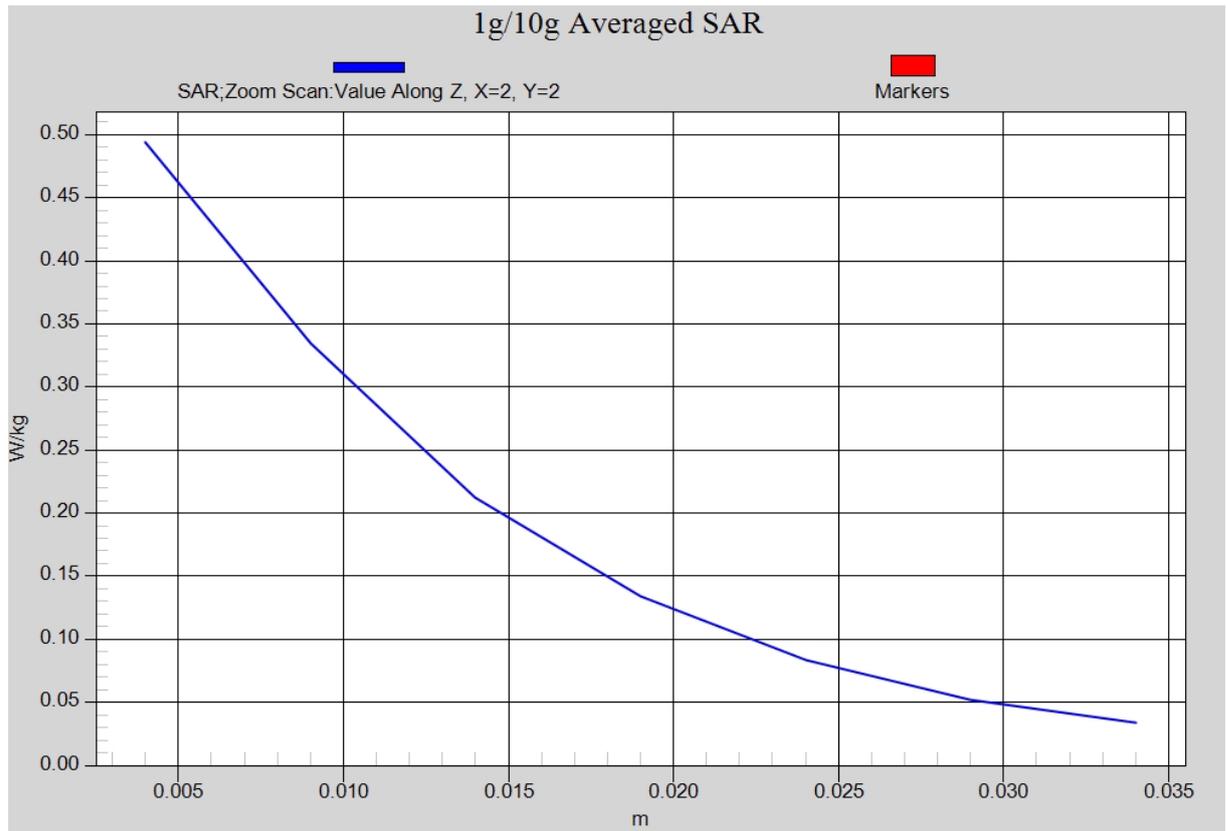


Fig. 12-1 Z-Scan at power reference point (1700 MHz CH1513)

WCDMA 1900 Left Cheek Middle

Date: 2013-9-16

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.408$ mho/m; $\epsilon_r = 39.109$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.01, 8.01, 8.01)

Cheek Middle/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.379 W/kg

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

Reference Value = 3.289 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 0.379 W/kg

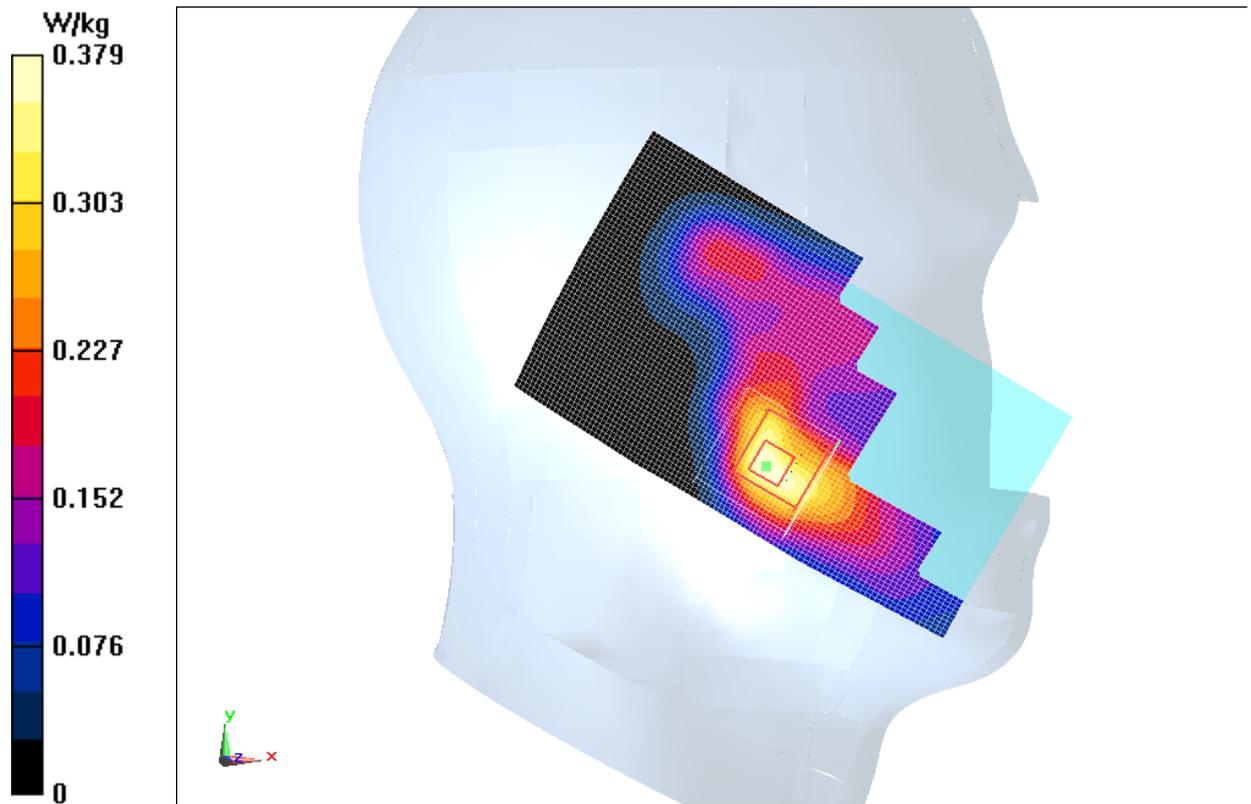


Fig.13 WCDMA1900 CH9400

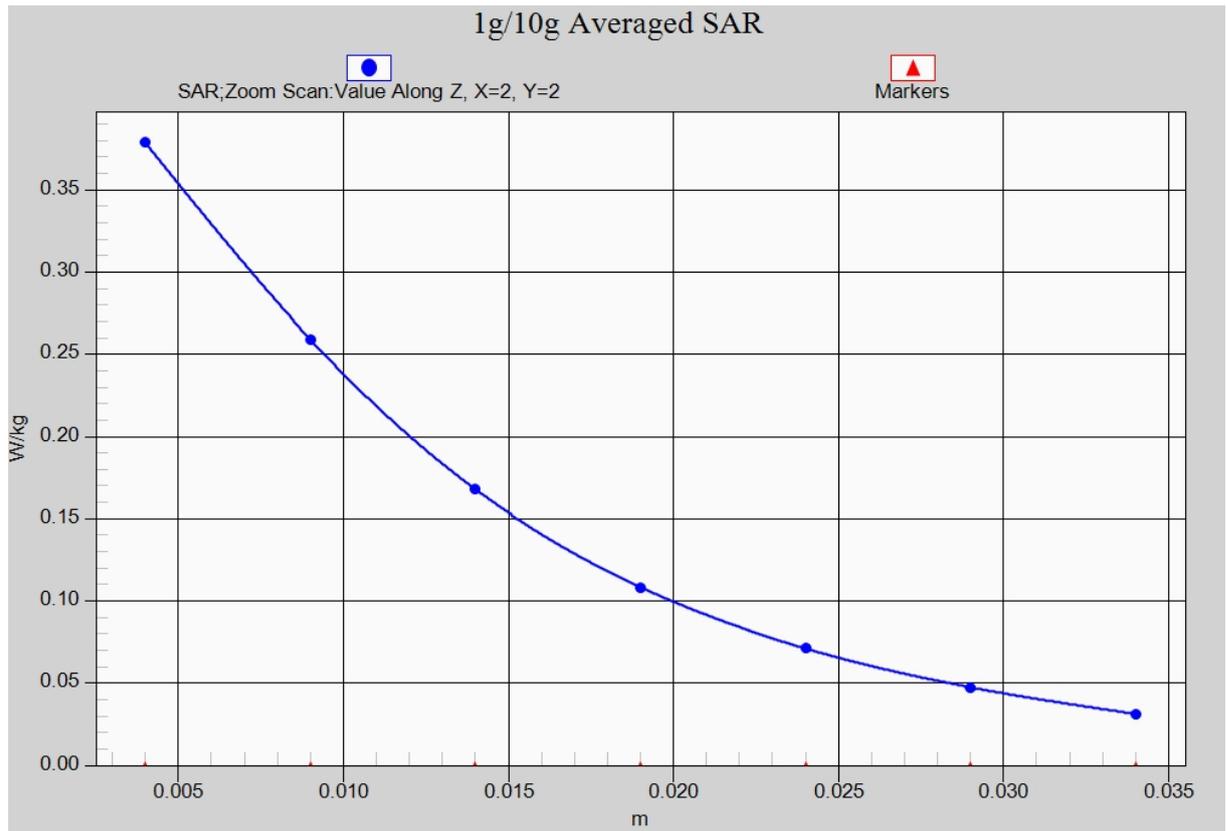


Fig. 13-1 Z-Scan at power reference point (WCDMA1900 CH9400)

WCDMA 1900 Body Bottom Edge High with Headset – AP OFF

Date: 2013-9-16

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.518$ mho/m; $\epsilon_r = 51.941$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: WCDMA 1900 Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.37, 7.37, 7.37)

Bottom Edge High/Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

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

Reference Value = 11.625 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.936 W/kg; SAR(10 g) = 0.545 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

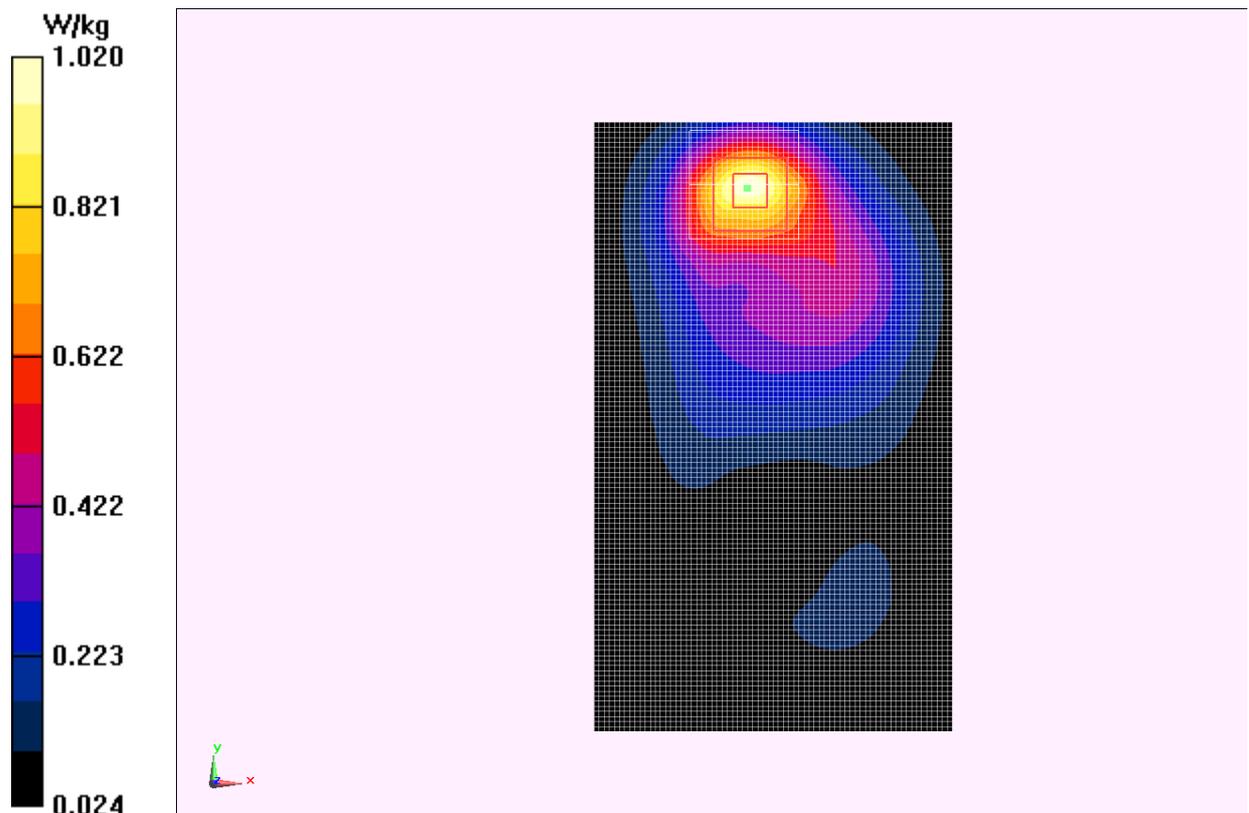


Fig.14 WCDMA1900 CH9538

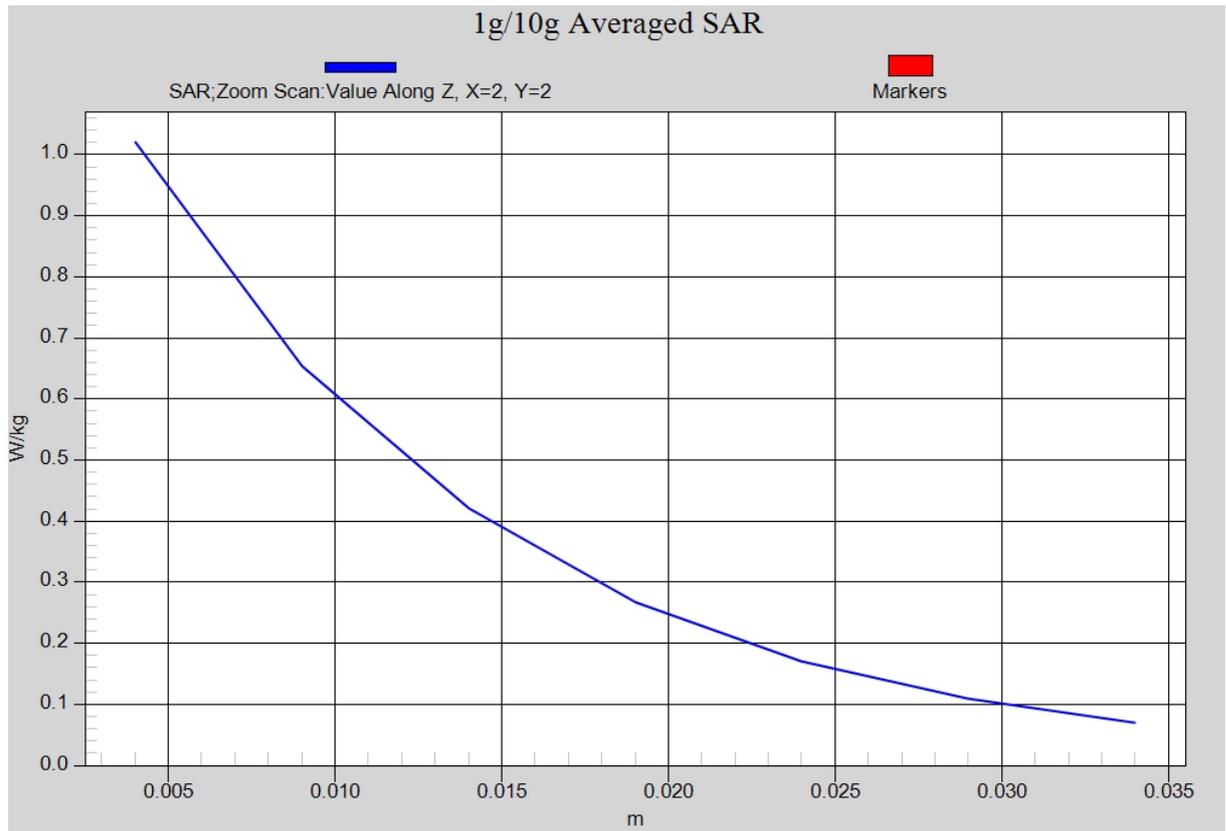


Fig. 14-1 Z-Scan at power reference point (WCDMA1900 CH9538)

WCDMA 1900 Body Rear Middle – AP ON

Date: 2013-9-16

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.509$ mho/m; $\epsilon_r = 54.096$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.37, 7.37, 7.37)

Rear Middle/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.507 W/kg

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

Reference Value = 7.997 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.751 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 0.514 W/kg

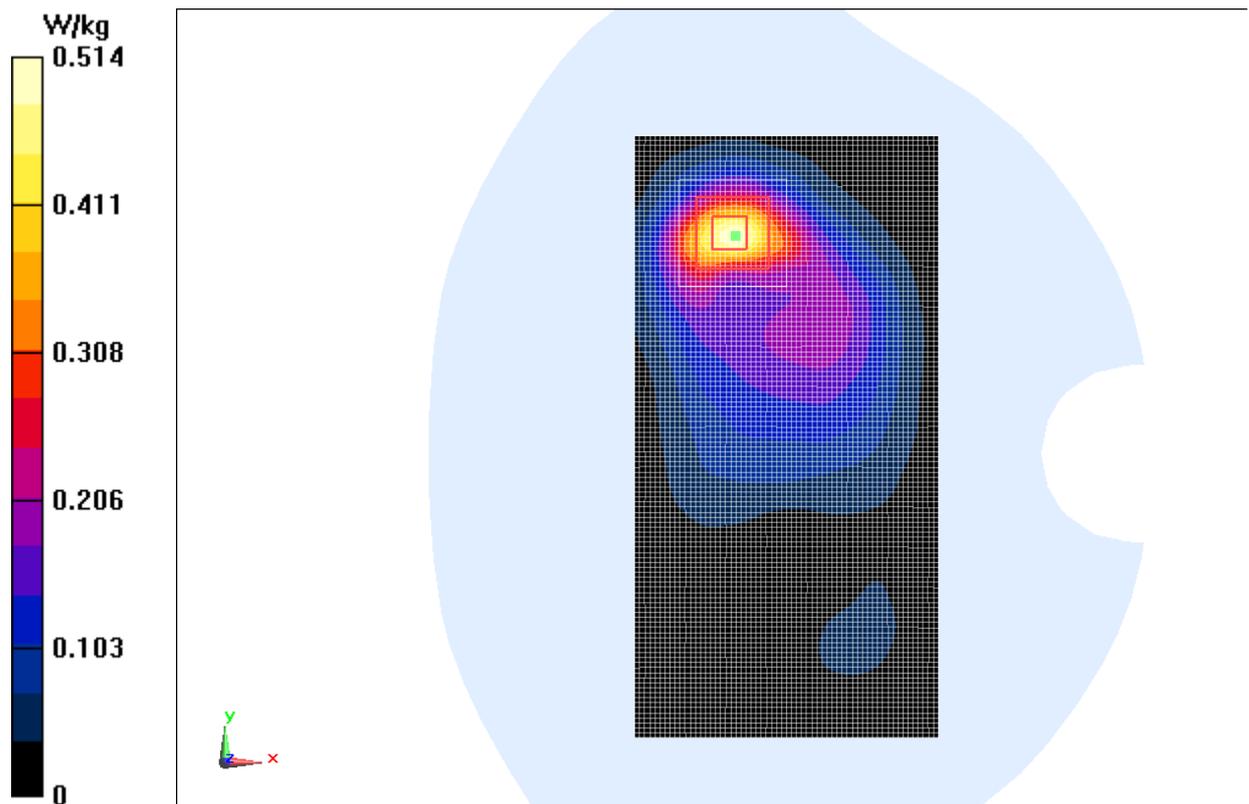


Fig.15 WCDMA1900 CH9400

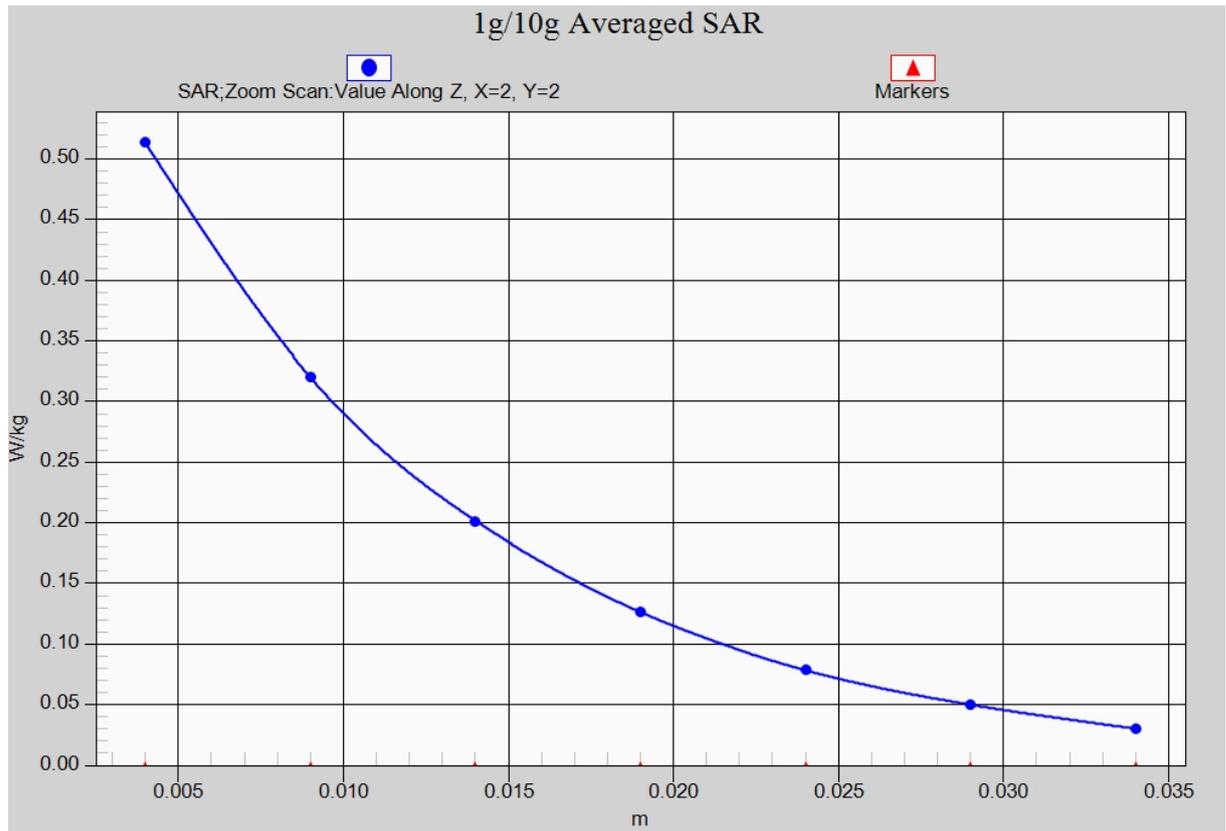


Fig. 15-1 Z-Scan at power reference point (WCDMA1900 CH9400)

LTE Band4 Right Cheek Middle with QPSK_20M_1RB_High

Date: 2013-9-17

Electronics: DAE4 Sn771

Medium: Head 1750 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.353$ mho/m; $\epsilon_r = 41.069$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: LTE Band4 Frequency: 1732.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.39, 8.39, 8.39)

Cheek Middle/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.291 W/kg

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

Reference Value = 3.925 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.380 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.278 W/kg

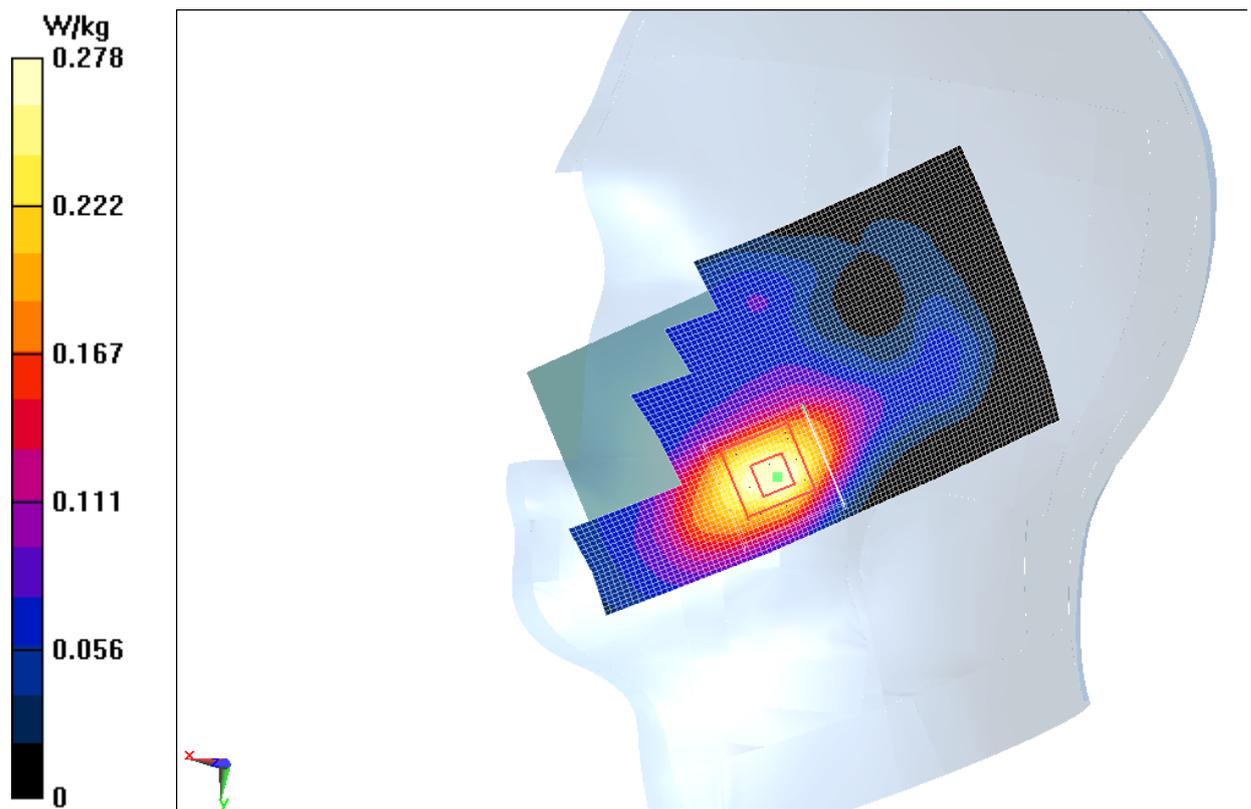


Fig.16 LTE Band4 CH20175

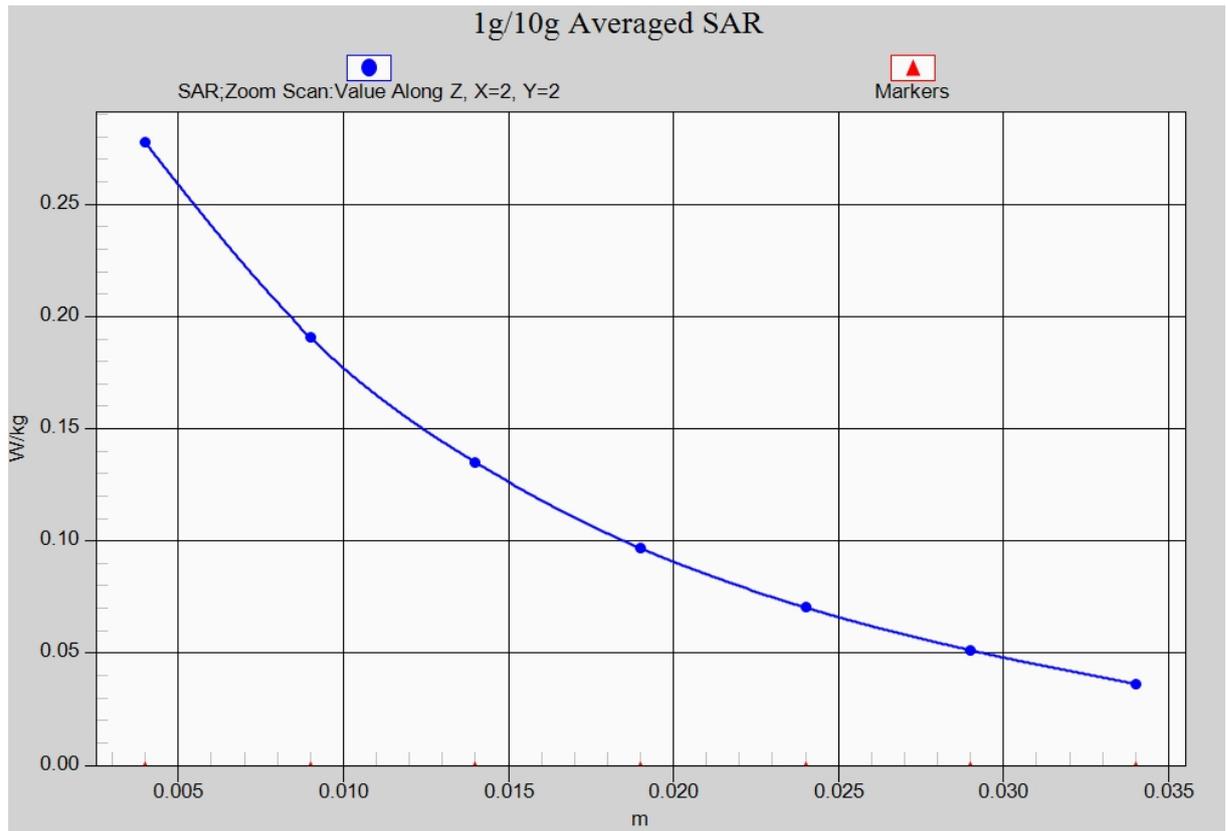


Fig. 16-1 Z-Scan at power reference point (LTE Band4 CH20175)

LTE Band4 Body Bottom Edge High with QPSK_20M_1RB_High – AP OFF

Date: 2013-9-17

Electronics: DAE4 Sn771

Medium: Body 1750 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.512$ mho/m; $\epsilon_r = 52.331$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: LTE Band4 Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.63, 7.63, 7.63)

Bottom Edge High/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

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

Reference Value = 18.102 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.928 W/kg; SAR(10 g) = 0.522 W/kg

Maximum value of SAR (measured) = 1.22 W/kg

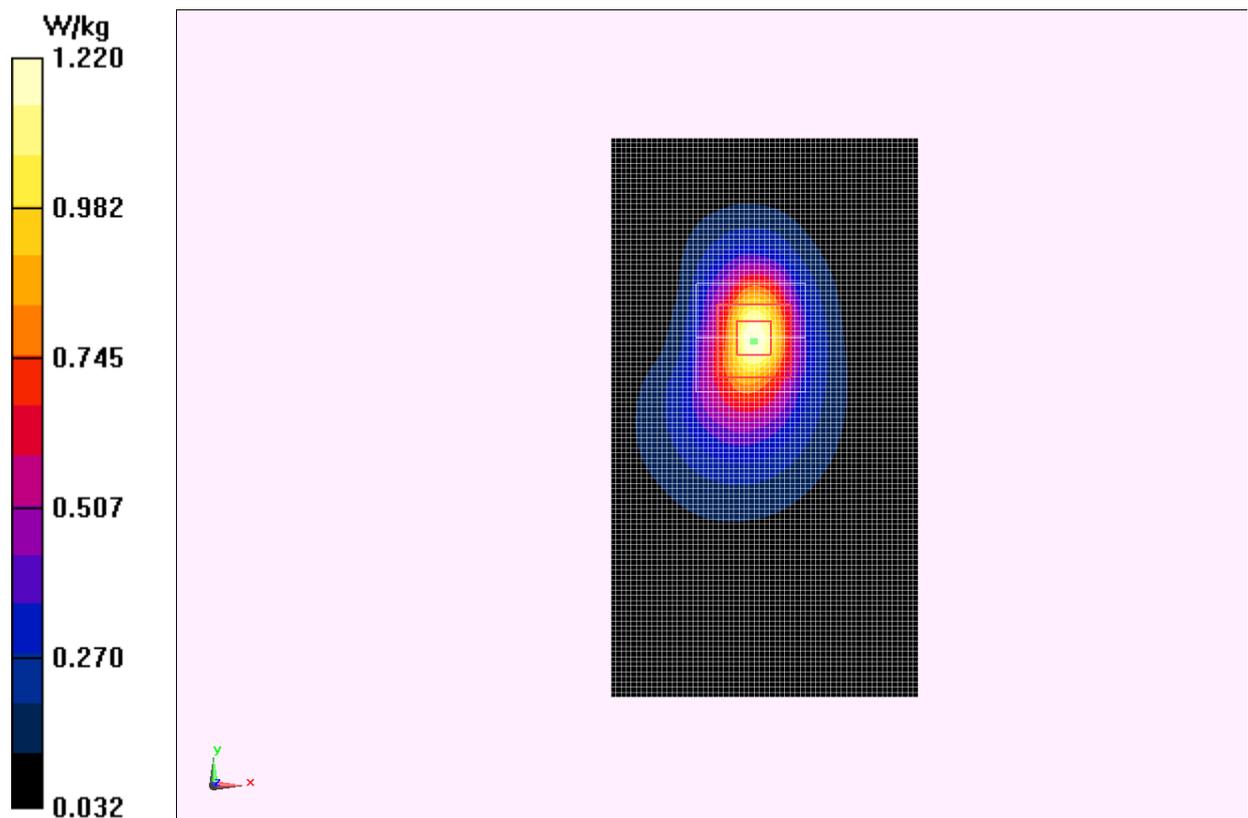


Fig.17 LTE Band4 CH20300

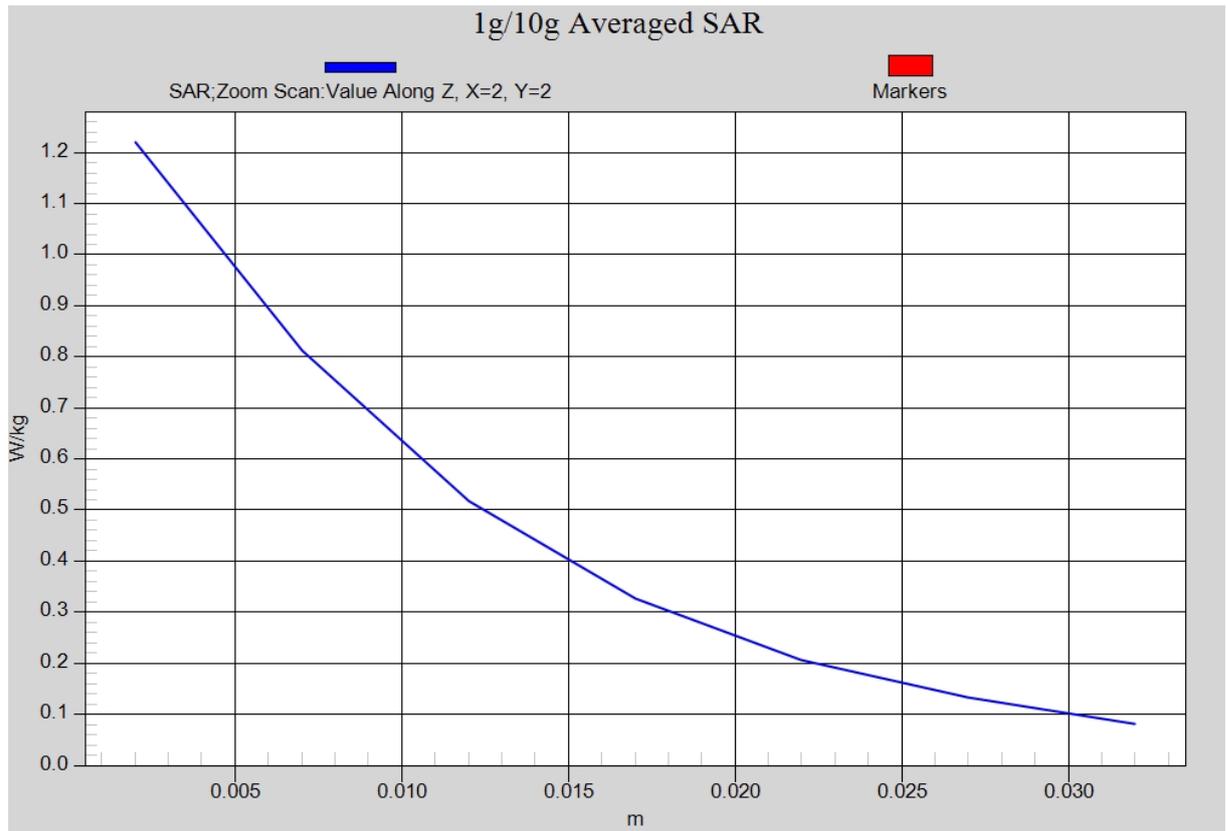


Fig. 17-1 Z-Scan at power reference point (LTE Band4 CH20300)

LTE Band4 Body Front Middle with QPSK_20M_1RB_Low – AP ON

Date: 2013-9-17

Electronics: DAE4 Sn771

Medium: Body 1750 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.502$ mho/m; $\epsilon_r = 52.381$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C

Communication System: LTE Band4 Frequency: 1732.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.63, 7.63, 7.63)

Front Middle/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.559 W/kg

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

Reference Value = 6.720 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.548 W/kg

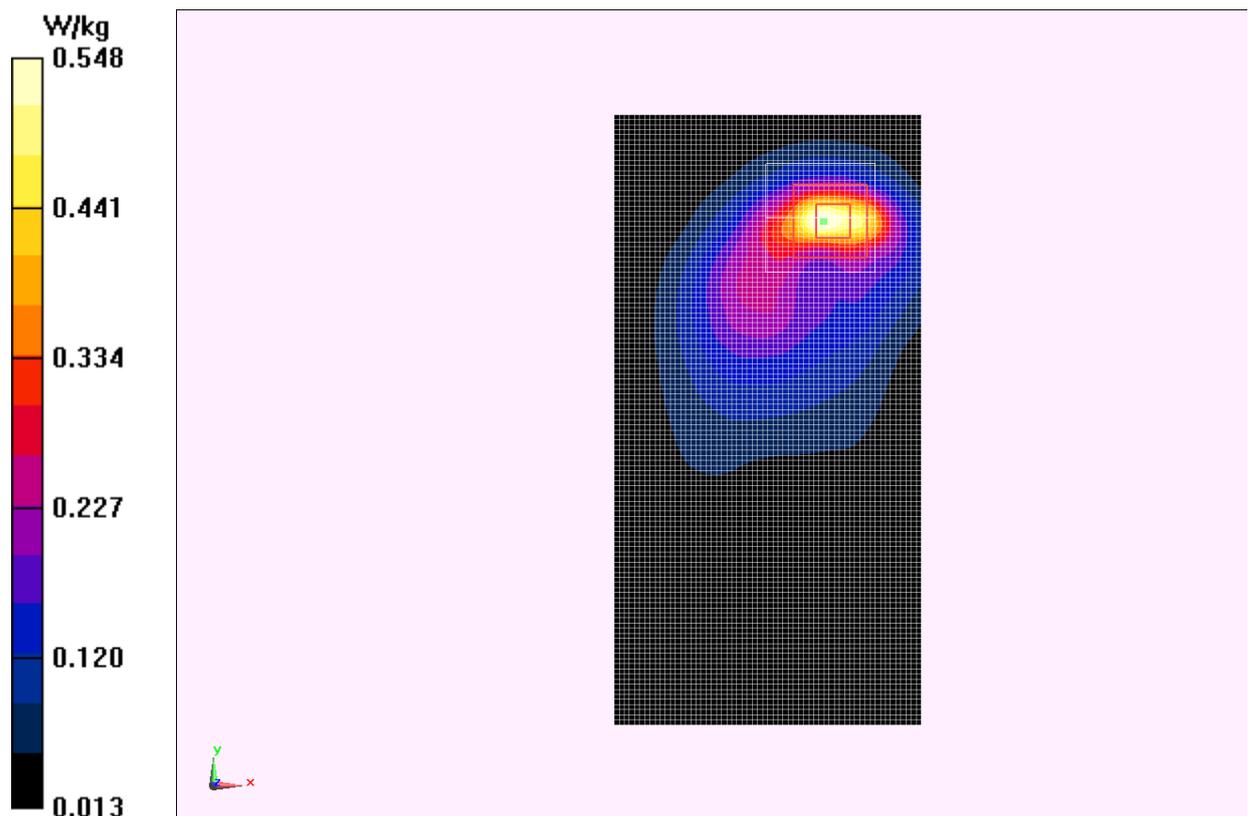


Fig.18 LTE Band4 CH20175

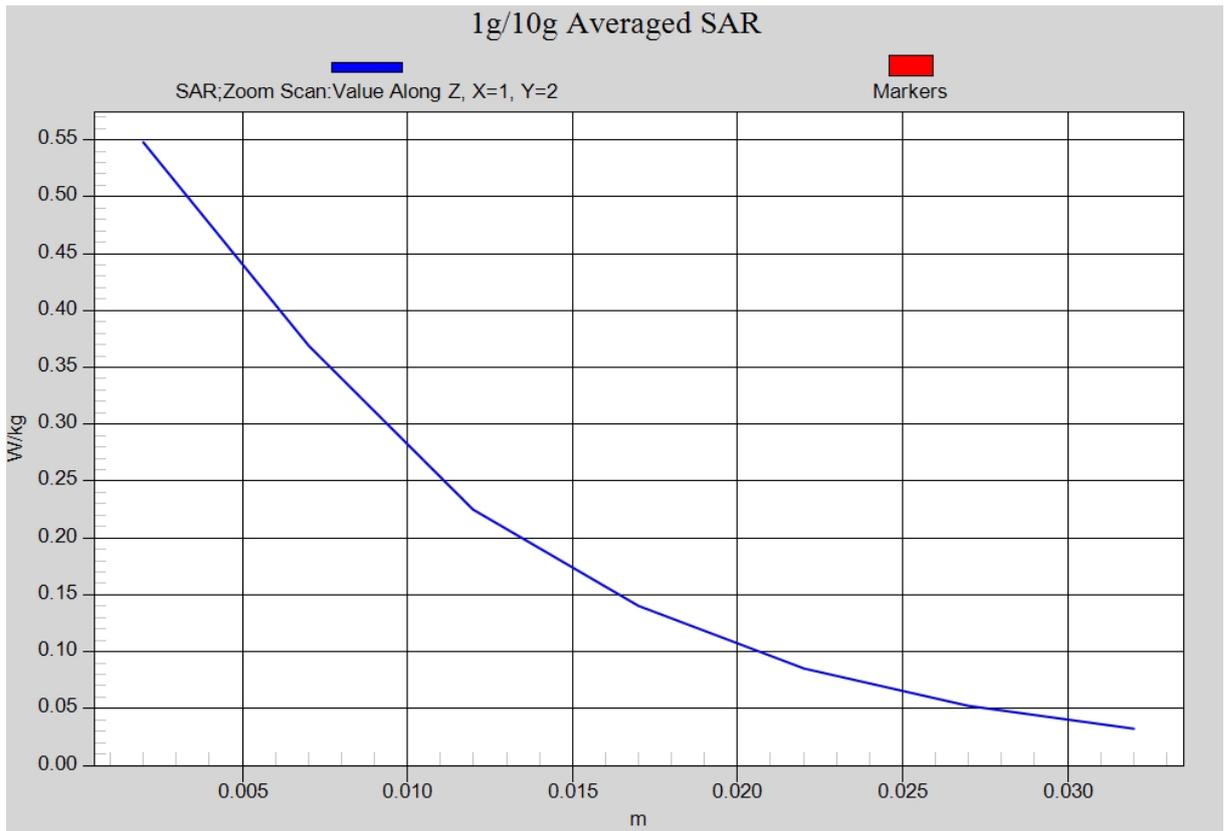


Fig. 18-1 Z-Scan at power reference point (LTE Band4 CH20175)

LTE Band17 Left Cheek Low with QPSK_10M_1RB_Middle

Date: 2013-9-18

Electronics: DAE4 Sn771

Medium: Head 750 MHz

Medium parameters used (interpolated): $f = 709$ MHz; $\sigma = 0.877$ mho/m; $\epsilon_r = 42.809$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band17 Frequency: 709 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.53, 9.53, 9.53)

Cheek Low/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.202 W/kg

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

Reference Value = 3.665 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.159 W/kg

Maximum value of SAR (measured) = 0.201 W/kg

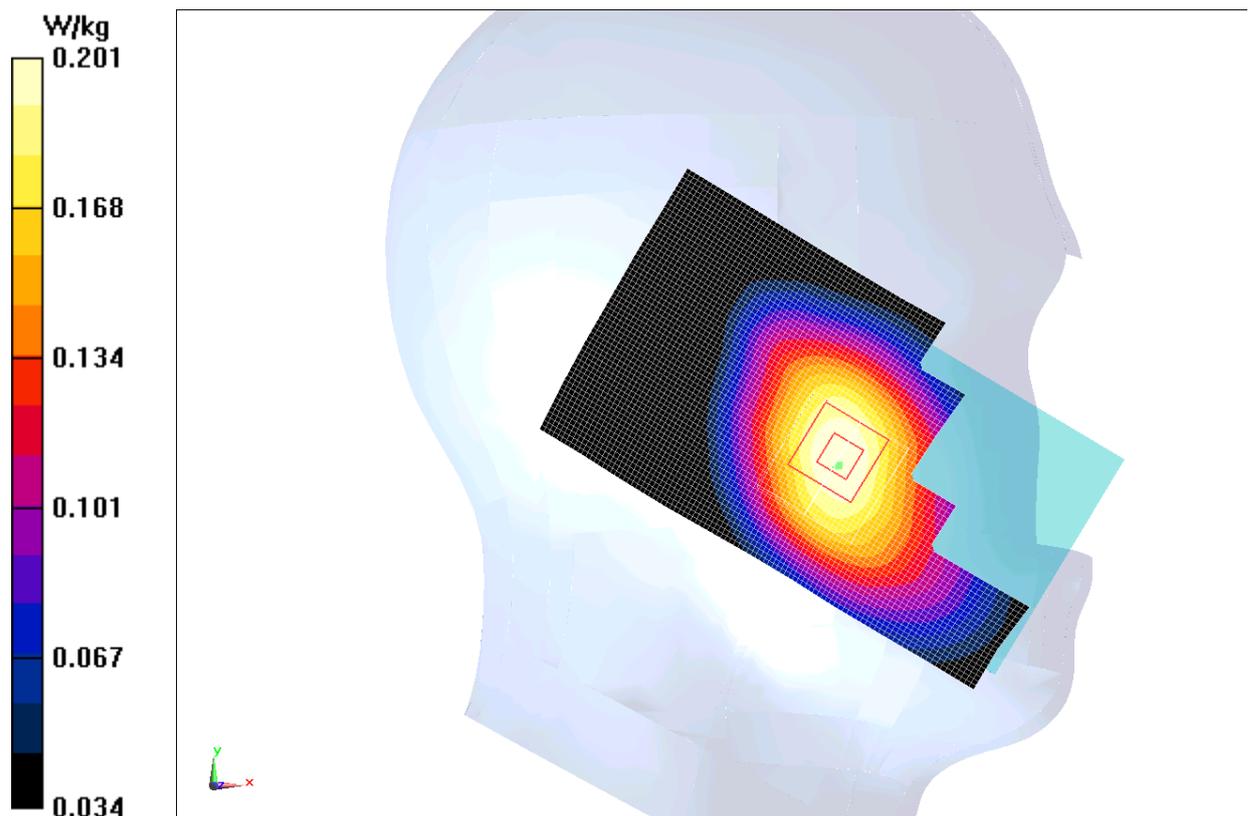


Fig.19 LTE Band17 CH23780

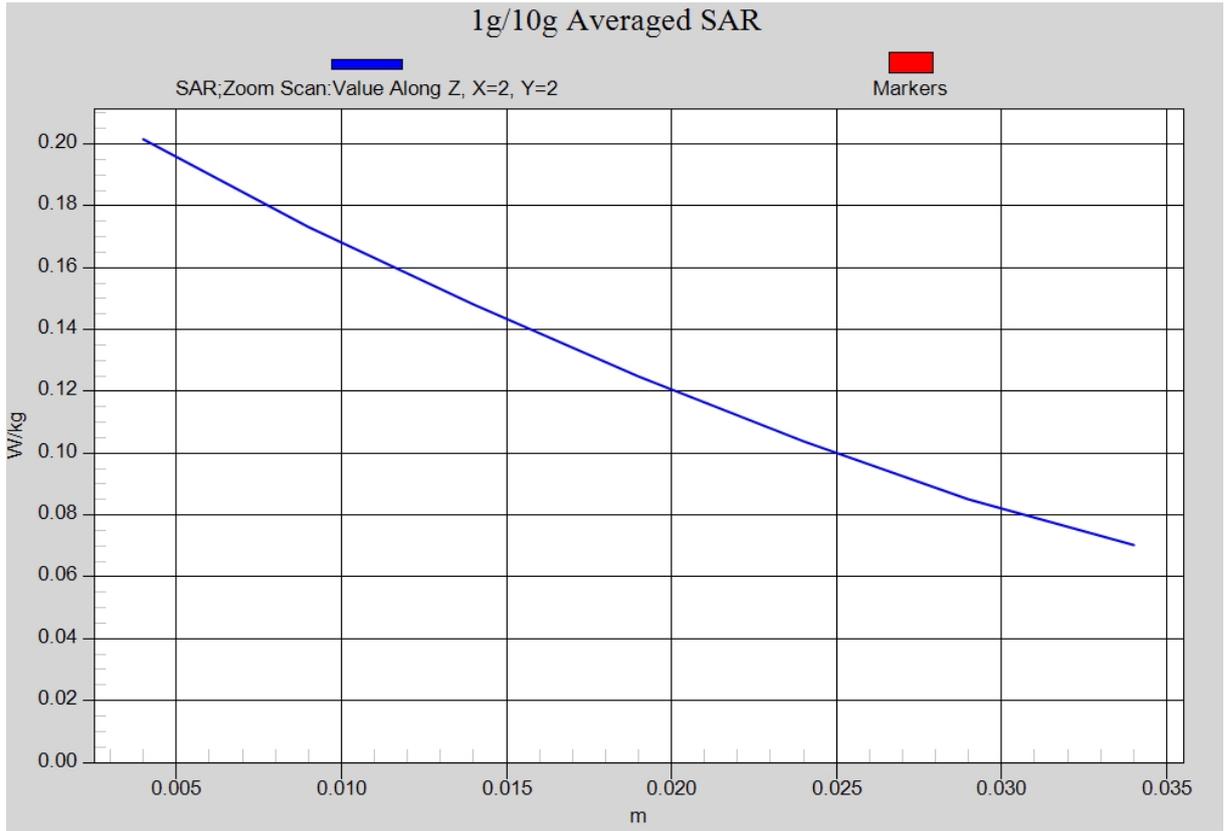


Fig. 19-1 Z-Scan at power reference point (LTE Band17 CH23780)

LTE Band17 Body Rear Low with QPSK_10M_1RB_Middle – AP OFF

Date: 2013-9-18

Electronics: DAE4 Sn771

Medium: Body 750 MHz

Medium parameters used (interpolated): $f = 709$ MHz; $\sigma = 0.953$ mho/m; $\epsilon_r = 57.18$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band17 Frequency: 709 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.28, 9.28, 9.28)

Rear Low/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 16.878 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.244 W/kg

Maximum value of SAR (measured) = 0.318 W/kg

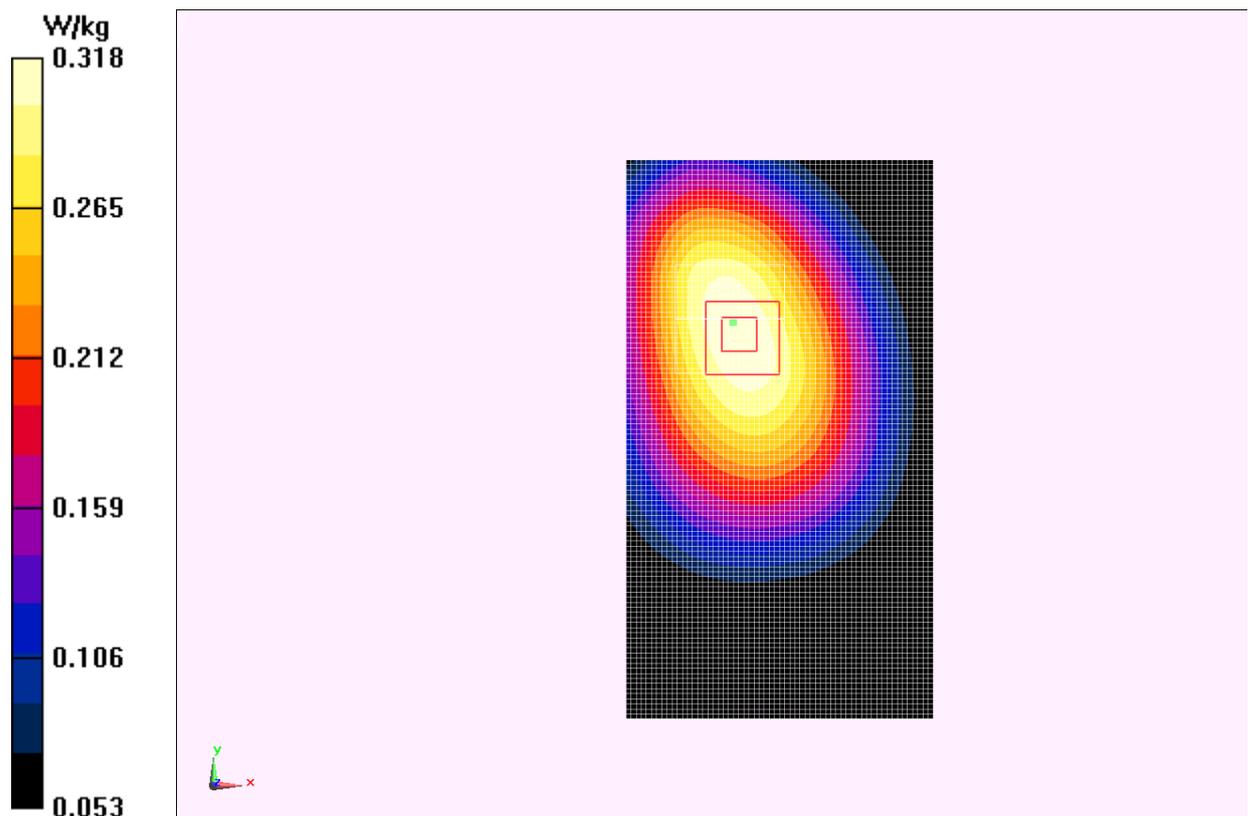


Fig.20 LTE Band17 CH23780

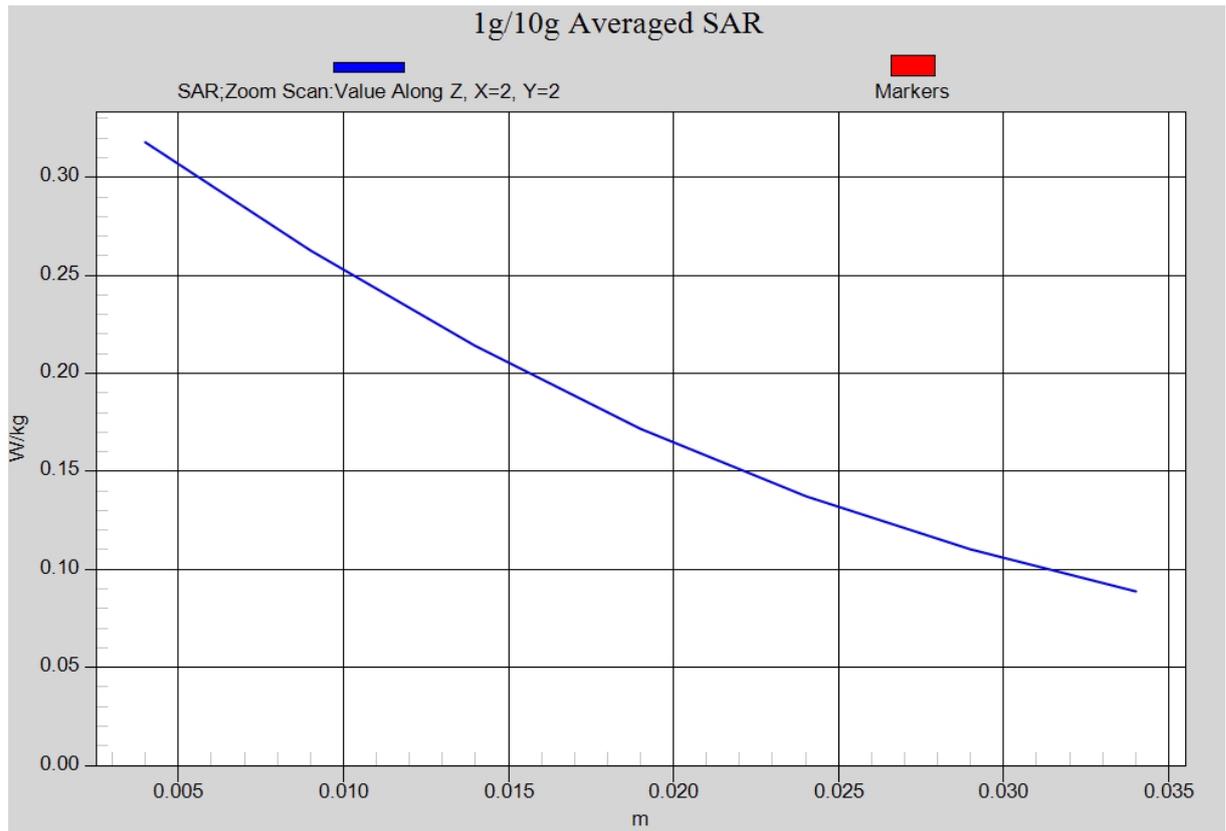


Fig. 20-1 Z-Scan at power reference point (LTE Band17 CH23780)