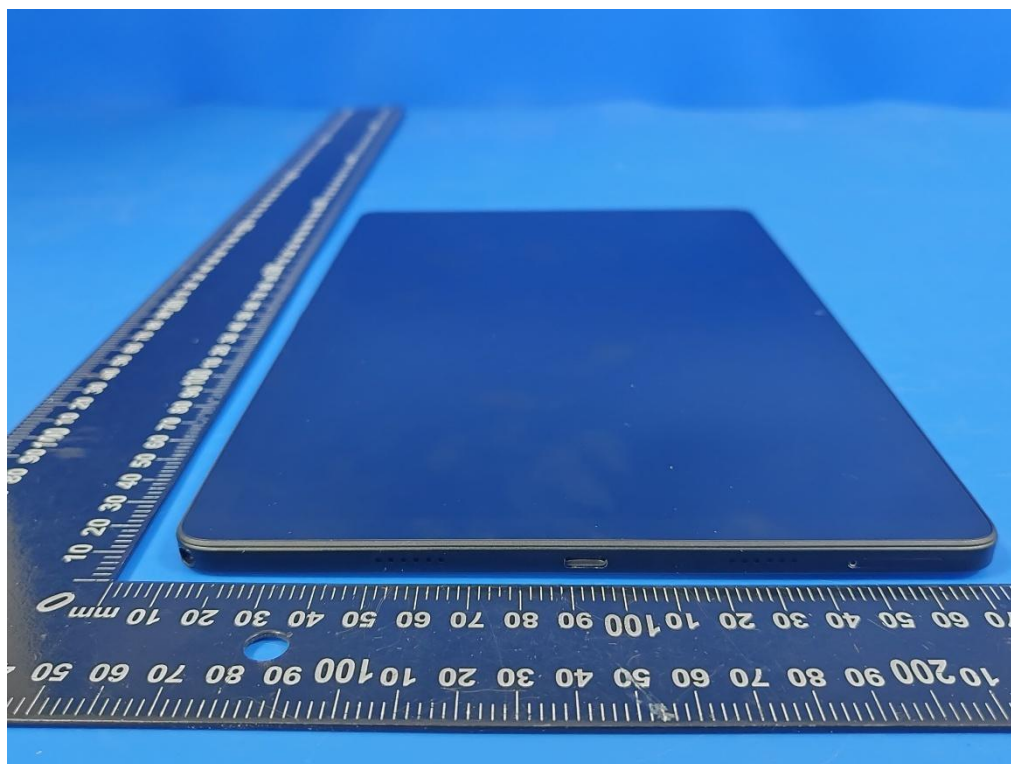
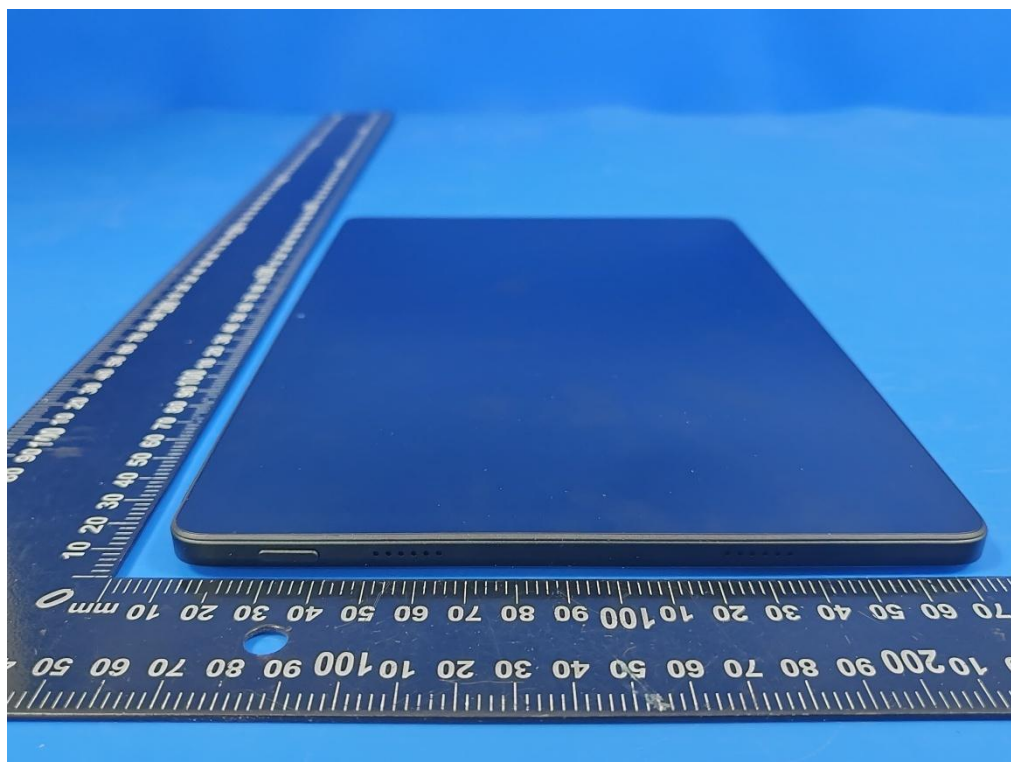




Right Edge

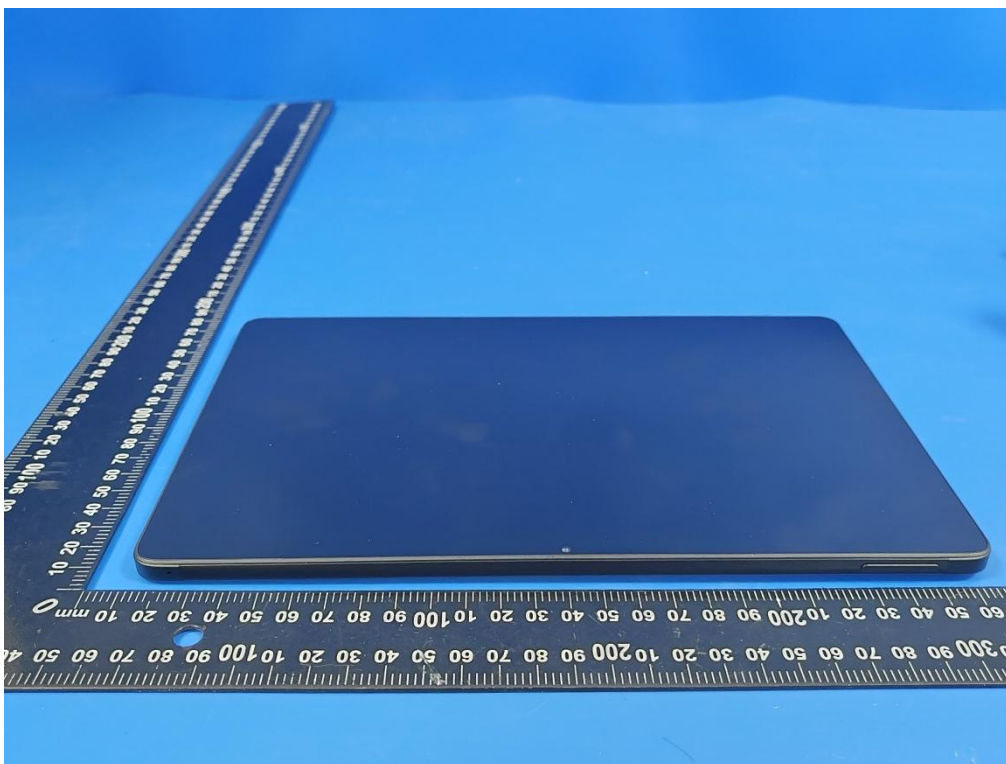


Left Edge

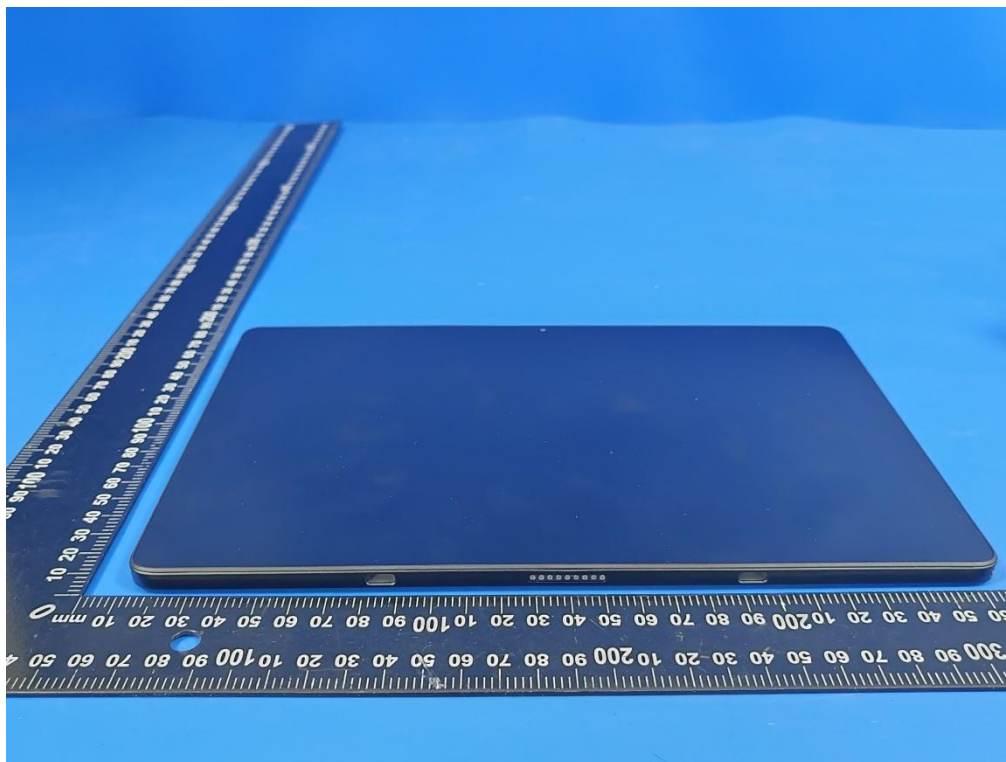




Top Edge



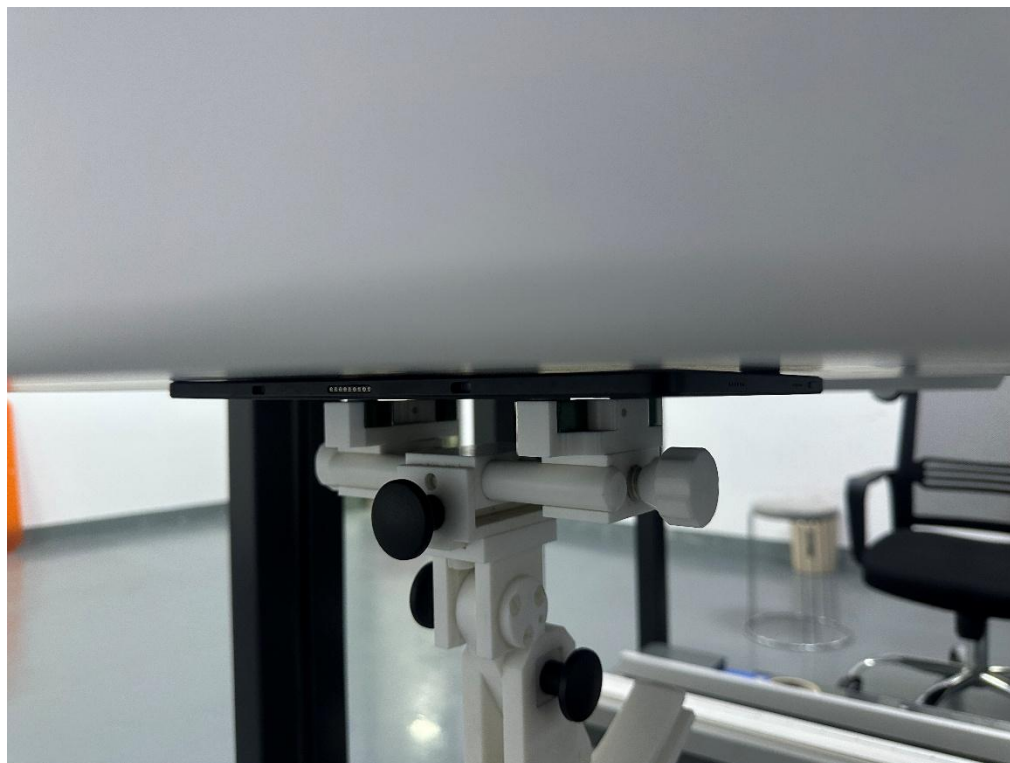
Bottom Edge



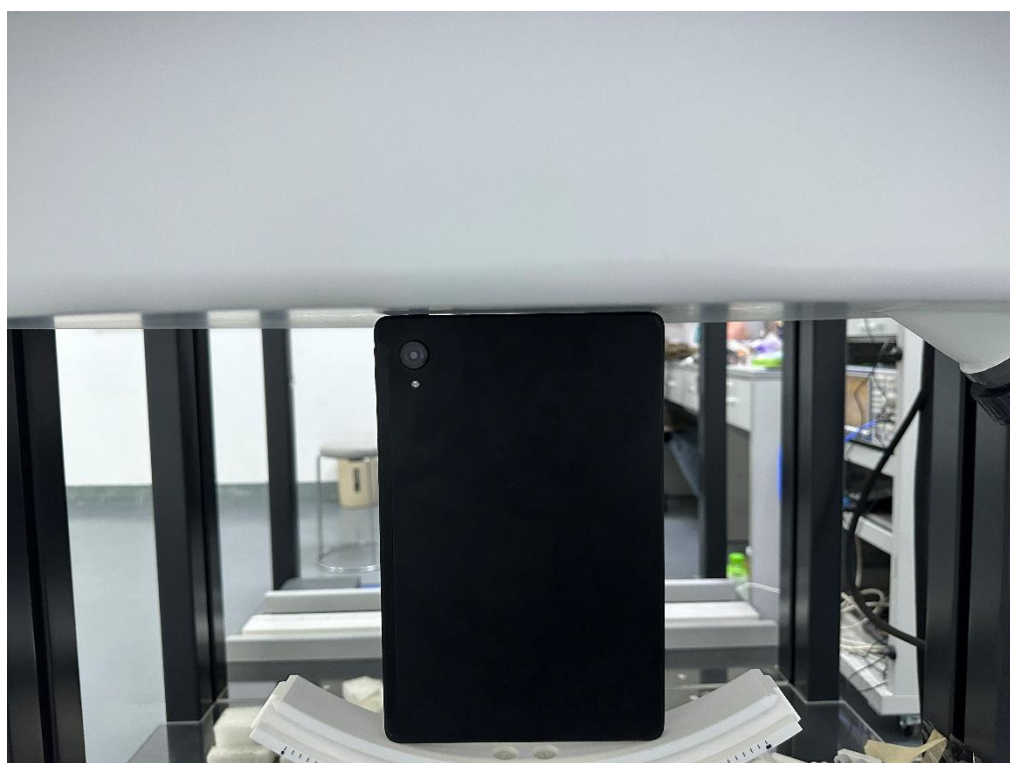


11.2 Setup Photos

Body Back side (separation distance 0mm)

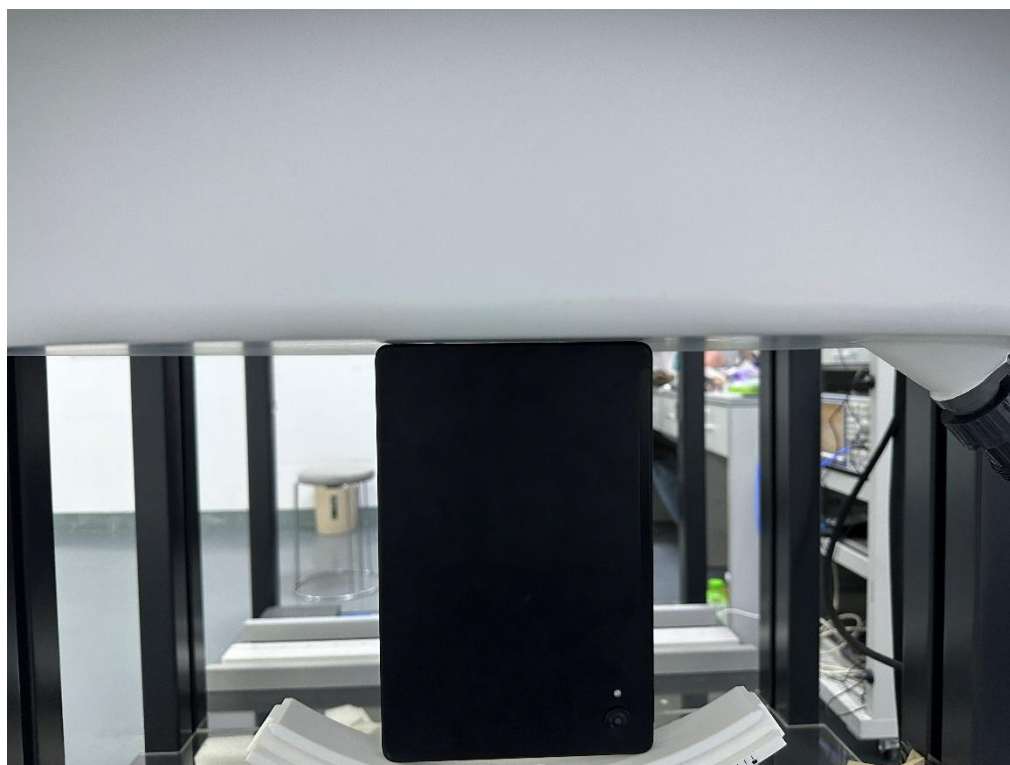


Body Left side (separation distance is 0mm)





Body Right side (separation distance is 0mm)



Body Top side (separation distance is 0mm)





Body Bottom side (separation distance is 0mm)





12. SAR Result Summary

12.2 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS Data-4 Slot	Back Side	836.6	0.555	0.17	31.00	30.79	1.050	0.582	1
		Left Side	836.6	0.192	1.45	31.00	30.79	1.050	0.202	/
		Right Side	836.6	0.056	-0.93	31.00	30.79	1.050	0.059	/
		Top Side	836.6	0.303	3.31	31.00	30.79	1.050	0.318	/
		Bottom Side	836.6	0.053	2.32	31.00	30.79	1.050	0.056	/
PCS 1900	GPRS (GMSK, 2-Slot)	Back Side	1850.2	1.045	-0.01	30.60	30.30	1.072	1.120	/
		Back Side	1880	1.056	1.00	30.60	30.23	1.089	1.150	/
		Back Side	1909.8	1.145	0.44	30.60	30.54	1.014	1.161	2
		Left Side	1909.8	0.377	2.72	30.60	30.54	1.014	0.382	/
		Right Side	1909.8	0.116	0.61	30.60	30.54	1.014	0.118	/
		Top Side	1909.8	0.639	-2.42	30.60	30.54	1.014	0.648	/
WCDMA Band II	HSDPA Subtest-1	Back Side	1852.4	0.858	-2.78	24.20	24.17	1.007	0.864	3
		Back Side	1880	0.756	2.78	24.20	23.69	1.125	0.850	/
		Back Side	1907.6	0.765	-0.77	24.20	23.70	1.122	0.858	/
		Right Side	1852.4	0.087	-1.96	24.20	24.17	1.007	0.088	/
		Top Side	1852.4	0.503	0.23	24.20	24.17	1.007	0.506	/
WCDMA Band IV	RMC	Back Side	1712.6	0.670	-3.35	24.50	24.44	1.014	0.679	4
		Right Side	1712.6	0.07	-0.26	24.50	24.44	1.014	0.071	/
		Top Side	1712.6	0.395	1.31	24.50	24.44	1.014	0.400	/
WCDMA Band V	RMC	Back Side	846.6	0.772	-2.27	24.20	24.13	1.016	0.785	5
		Right Side	846.6	0.081	-1.14	24.20	24.13	1.016	0.082	/
		Top Side	846.6	0.415	3.00	24.20	24.13	1.016	0.422	/
2.4GHz WLAN	802.11b	Back Side	2412	0.376	3.92	16.50	16.33	1.040	0.391	6
		Top Side	2412	0.238	-0.25	16.50	16.33	1.040	0.248	/
5.2GHz WLAN	802.11a	Back Side	5240	0.199	-0.85	12.20	12.18	1.005	0.200	7
		Top Side	5240	0.07	-0.09	12.20	12.18	1.005	0.070	/
5.3GHz WLAN	802.11a	Back Side	5320	0.221	-1.83	13.20	13.16	1.009	0.223	8
		Top Side	5320	0.108	-0.21	13.20	13.16	1.009	0.109	/
5.8GHz WLAN	802.11a	Back Side	5785	0.284	0.35	13.50	13.33	1.040	0.295	9
		Top Side	5785	0.127	3.58	13.50	13.33	1.040	0.132	/



Band	BW (MHz)	Mod.	RB Size	RB off set	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Back Side	1860	0.789	-3.12	25.00	24.44	1.138	0.898	/
			1	0	Back Side	1880	0.859	0.53	25.00	24.76	1.057	0.908	10
			1	0	Back Side	1900	0.802	-1.00	25.00	24.50	1.122	0.900	/
			50	0	Back Side	1880	0.756	-0.64	23.50	23.48	1.005	0.759	/
			1	0	Right Side	1880	0.089	-1.86	25.00	24.76	1.057	0.094	/
			50	0	Right Side	1880	0.076	3.04	23.50	23.48	1.005	0.076	/
			1	0	Top Side	1880	0.479	-1.55	25.00	24.76	1.057	0.506	/
			50	0	Top Side	1880	0.422	0.48	23.50	23.48	1.005	0.424	/
LTE Band 4	20M	QPSK	1	0	Back Side	1732.5	0.215	-2.11	24.00	23.97	1.007	0.216	11
			50	0	Back Side	1745	0.188	-0.33	23.00	22.98	1.005	0.189	/
			1	0	Right Side	1732.5	0.022	2.19	24.00	23.97	1.007	0.022	/
			50	0	Right Side	1745	0.022	-3.10	23.00	22.98	1.005	0.022	/
			1	0	Top Side	1732.5	0.127	-0.16	24.00	23.97	1.007	0.128	/
			50	0	Top Side	1745	0.11	-0.85	23.00	22.98	1.005	0.111	/
LTE Band 5	10M	QPSK	1	0	Back Side	829	0.776	-3.76	24.50	24.18	1.076	0.835	/
			1	0	Back Side	836.5	0.794	0.17	24.50	24.23	1.064	0.845	/
			1	0	Back Side	844	0.842	3.36	24.50	24.46	1.009	0.850	12
			25	0	Back Side	844	0.744	1.94	23.50	23.35	1.035	0.770	/
			1	0	Right Side	844	0.085	0.00	24.50	24.46	1.009	0.086	/
			25	0	Right Side	844	0.075	3.90	23.50	23.35	1.035	0.078	/
			1	0	Top Side	844	0.503	-1.22	24.50	24.46	1.009	0.508	/
			25	0	Top Side	844	0.446	-1.43	23.50	23.35	1.035	0.462	/
LTE Band 7	20M	QPSK	1	0	Back Side	2510	1.078	3.86	23.60	23.53	1.016	1.095	13
			1	0	Back Side	2535	0.926	1.88	23.60	22.93	1.167	1.081	/
			1	0	Back Side	2560	0.871	-2.49	23.60	22.64	1.247	1.086	/
			50	0	Back Side	2510	0.964	0.06	22.50	22.43	1.016	0.980	/
			50	0	Back Side	2535	0.78	2.96	22.50	21.78	1.180	0.921	/
			50	0	Back Side	2560	0.803	0.41	22.50	21.69	1.205	0.968	/
			100	0	Back Side	2510	0.943	3.03	22.50	22.48	1.005	0.947	/
			100	0	Back Side	2535	0.777	-0.15	22.50	21.81	1.172	0.911	/
			100	0	Back Side	2560	0.787	-2.19	22.50	21.73	1.194	0.940	/
			1	0	Right Side	2510	0.118	-1.17	23.60	23.53	1.016	0.120	/
			50	0	Right Side	2510	0.105	-2.99	22.50	22.43	1.016	0.107	/
			1	0	Top Side	2510	0.685	0.94	23.60	23.53	1.016	0.696	/
			50	0	Top Side	2510	0.601	-1.81	22.50	22.43	1.016	0.611	/
LTE Band 12	10M	QPSK	1	0	Back Side	704	0.465	-1.93	24.50	24.39	1.026	0.477	14
			25	0	Back Side	711	0.408	3.59	23.30	23.23	1.016	0.415	/
			1	0	Right Side	704	0.047	2.65	24.50	24.39	1.026	0.048	/
			25	0	Right Side	711	0.042	0.66	23.30	23.23	1.016	0.043	/
			1	0	Top Side	704	0.253	3.61	24.50	24.39	1.026	0.259	/
			25	0	Top Side	711	0.225	-1.36	23.30	23.23	1.016	0.229	/
LTE Band 25	20M	QPSK	1	0	Back Side	1860	0.812	-3.35	24.10	24.06	1.009	0.820	15
			1	0	Back Side	1882.5	0.649	-0.83	24.10	23.77	1.079	0.700	/
			1	0	Back Side	1905	0.656	-3.59	24.10	23.23	1.222	0.802	/
			50	0	Back Side	1860	0.715	-3.05	23.00	22.91	1.021	0.730	/
			1	0	Right Side	1860	0.085	2.16	24.10	24.06	1.009	0.086	/
			50	0	Right Side	1860	0.079	-3.38	23.00	22.91	1.021	0.081	/
			1	0	Top Side	1860	0.438	-3.51	24.10	24.06	1.009	0.442	/
			50	0	Top Side	1860	0.387	1.37	23.00	22.91	1.021	0.395	/
LTE Band 26	15M	QPSK	1	0	Back Side	841.5	0.653	-3.75	24.50	24.48	1.005	0.656	16
			36	0	Back Side	831.5	0.578	-0.74	23.50	23.31	1.045	0.604	/
			1	0	Right Side	841.5	0.065	-1.04	24.50	24.48	1.005	0.065	/
			36	0	Right Side	831.5	0.059	-1.90	23.50	23.31	1.045	0.062	/



			1	0	Top Side	841.5	0.372	-3.40	24.50	24.48	1.005	0.374	/
			36	0	Top Side	831.5	0.328	-2.27	23.50	23.31	1.045	0.343	/
LTE Band 38	20M	QPSK	1	0	Back Side	2580	0.472	-3.50	24.20	24.19	1.002	0.473	17
			50	0	Back Side	2595	0.418	3.37	24.00	23.88	1.028	0.430	/
			1	0	Right Side	2580	0.049	2.79	24.20	24.19	1.002	0.049	/
			50	0	Right Side	2595	0.044	-3.21	24.00	23.88	1.028	0.045	/
			1	0	Top Side	2580	0.28	-1.66	24.20	24.19	1.002	0.281	/
			50	0	Top Side	2595	0.249	-0.38	24.00	23.88	1.028	0.256	/
LTE Band 40	10M	QPSK	1	0	Back Side	2350	0.366	3.06	23.70	23.64	1.014	0.371	18
			50	0	Back Side	2350	0.326	3.73	22.50	22.47	1.007	0.328	/
			1	0	Right Side	2350	0.041	-0.85	23.70	23.64	1.014	0.042	/
			50	0	Right Side	2350	0.036	-2.40	22.50	22.47	1.007	0.036	/
			1	0	Top Side	2350	0.201	-3.85	23.70	23.64	1.014	0.204	/
			50	0	Top Side	2350	0.175	-2.24	22.50	22.47	1.007	0.176	/
LTE Band 41	20M	QPSK	1	0	Back Side	2506	1.096	0.54	25.00	24.86	1.033	1.132	19
			1	0	Back Side	2593	0.872	-0.04	25.00	23.91	1.285	1.121	/
			1	0	Back Side	2680	0.842	-2.95	25.00	23.74	1.337	1.126	/
			50	0	Back Side	2506	0.982	1.32	24.50	23.93	1.140	1.120	/
			50	0	Back Side	2593	0.838	-1.38	24.50	24.38	1.028	0.861	/
			50	0	Back Side	2680	0.862	3.34	24.50	23.40	1.288	1.110	/
			100	0	Back Side	2506	0.983	-3.39	24.50	24.30	1.047	1.029	/
			100	0	Back Side	2593	0.756	3.15	24.50	23.84	1.164	0.880	/
			100	0	Back Side	2680	0.764	-2.76	24.50	23.29	1.321	1.009	/
			1	0	Right Side	2506	0.12	3.36	25.00	24.86	1.033	0.124	/
			50	0	Right Side	2506	0.105	-1.00	24.50	24.38	1.028	0.108	/
			1	0	Top Side	2506	0.696	3.35	25.00	24.86	1.033	0.719	/
			50	0	Top Side	2506	0.614	2.68	24.50	24.38	1.028	0.631	/
LTE Band 66	20M	QPSK	1	0	Back Side	1720	1.078	2.74	24.60	24.41	1.045	1.127	/
			1	0	Back Side	1745	1.171	-2.60	24.60	24.53	1.016	1.190	20
			1	0	Back Side	1770	1.099	2.81	24.60	24.40	1.047	1.151	/
			50	0	Back Side	1720	0.853	-2.21	23.60	23.45	1.035	0.883	/
			50	0	Back Side	1745	0.958	-1.17	23.60	23.50	1.023	0.980	/
			50	0	Back Side	1770	0.875	2.22	23.60	23.39	1.050	0.918	/
			100	0	Back Side	1720	0.88	1.93	23.60	23.47	1.030	0.907	/
			100	0	Back Side	1745	0.944	3.45	23.60	23.51	1.021	0.964	/
			100	0	Back Side	1770	0.893	2.07	23.60	23.31	1.069	0.955	/
			1	0	Right Side	1745	0.131	-0.31	24.60	24.53	1.016	0.133	/
			50	0	Right Side	1745	0.119	-1.69	23.60	23.50	1.023	0.122	/
			1	0	Top Side	1745	0.74	-0.82	24.60	24.53	1.016	0.752	/
			50	0	Top Side	1745	0.65	2.63	23.60	23.50	1.023	0.665	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
3. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.3 Repeated SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
PCS 1900	GPRS (GMSK, 2-Slot)	Back Side	1850.2	1.006	-1.74	30.60	30.30	1.072	1.078
		Back Side	1880	1.018	0.21	30.60	30.23	1.089	1.109
		Back Side	1909.8	1.120	3.24	30.60	30.54	1.014	1.136
WCDMA Band II	HSDPA Subtest-1	Back Side	1852.4	0.856	-2.13	24.20	24.17	1.007	0.862
		Back Side	1880	0.751	-2.41	24.20	23.69	1.125	0.845
		Back Side	1907.6	0.732	-1.62	24.20	23.70	1.122	0.821

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
LTE Band 2	20M	QPSK	1	0	Back Side	1860	0.763	-2.34	25.00	24.44	1.138	0.868
			1	0	Back Side	1880	0.829	2.47	25.00	24.76	1.057	0.876
			1	0	Back Side	1900	0.764	-1.55	25.00	24.50	1.122	0.857
LTE Band 5	10M	QPSK	1	0	Back Side	829	0.757	-0.77	24.50	24.18	1.076	0.815
			1	0	Back Side	836.5	0.787	3.56	24.50	24.23	1.064	0.837
			1	0	Back Side	844	0.805	0.14	24.50	24.46	1.009	0.812
LTE Band 7	20M	QPSK	1	0	Back Side	2510	1.034	-1.93	23.60	23.53	1.016	1.051
			1	0	Back Side	2535	0.918	0.26	23.60	22.93	1.167	1.071
			1	0	Back Side	2560	0.824	-3.47	23.60	22.64	1.247	1.028
			50	0	Back Side	2510	0.955	2.86	22.50	22.43	1.016	0.971
			50	0	Back Side	2535	0.766	2.44	22.50	21.78	1.180	0.904
			50	0	Back Side	2560	0.778	-0.78	22.50	21.69	1.205	0.938
			100	0	Back Side	2510	0.927	1.18	22.50	22.48	1.005	0.931
			100	0	Back Side	2535	0.773	-0.60	22.50	21.81	1.172	0.906
			100	0	Back Side	2560	0.785	-1.04	22.50	21.73	1.194	0.937
LTE Band 41	20M	QPSK	1	0	Back Side	2506	1.038	0.53	25.00	24.86	1.033	1.072
			1	0	Back Side	2593	0.822	-1.25	25.00	23.91	1.285	1.057
			1	0	Back Side	2680	0.819	0.75	25.00	23.74	1.337	1.095
			50	0	Back Side	2506	0.974	2.47	24.50	23.93	1.140	1.111
			50	0	Back Side	2593	0.804	-0.37	24.50	24.38	1.028	0.827
			50	0	Back Side	2680	0.830	0.00	24.50	23.40	1.288	1.069
			100	0	Back Side	2506	0.983	1.58	24.50	24.30	1.047	1.029
			100	0	Back Side	2593	0.748	-2.65	24.50	23.84	1.164	0.871
			100	0	Back Side	2680	0.734	3.45	24.50	23.29	1.321	0.970



LTE Band 66	20M	QPSK	1	0	Back Side	1720	1.049	3.64	24.60	24.41	1.045	1.096
			1	0	Back Side	1745	1.124	0.60	24.60	24.53	1.016	1.142
			1	0	Back Side	1770	1.051	3.45	24.60	24.40	1.047	1.101
			50	0	Back Side	1720	0.848	-1.99	23.60	23.45	1.035	0.878
			50	0	Back Side	1745	0.946	-3.25	23.60	23.50	1.023	0.968
			50	0	Back Side	1770	0.773	1.56	23.60	23.39	1.050	0.811
			100	0	Back Side	1720	0.858	-1.09	23.60	23.47	1.030	0.884
			100	0	Back Side	1745	0.898	1.24	23.60	23.51	1.021	0.917
			100	0	Back Side	1770	0.857	-3.87	23.60	23.31	1.069	0.916

12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g (W/kg)	1 st Repeated SAR 1g	Ratio
PCS 1900	GPRS (GMSK, 2-Slot)	Back Side	1850	1.045	1.006	1.038
		Back Side	1880	1.056	1.018	1.038
		Back Side	1910	1.145	1.120	1.022
WCDMA Band II	HSDPA Subtest-1	Back Side	1852	0.858	0.856	1.002
		Back Side	1880	0.756	0.751	1.007
		Back Side	1908	0.765	0.732	1.045

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
LTE Band 4	20M	QPSK	1	0	Back Side	1860	0.789	0.763	1.034
			1	0	Back Side	1880	0.859	0.829	1.036
			1	0	Back Side	1900	0.802	0.764	1.050
LTE Band 4	20M	QPSK	1	0	Back Side	829	0.776	0.757	1.025
			1	0	Back Side	836.5	0.794	0.787	1.009
			1	0	Back Side	844	0.842	0.805	1.046
LTE Band 7	20M	QPSK	1	0	Back Side	2510	1.078	1.034	1.043
			1	0	Back Side	2535	0.926	0.918	1.009
			1	0	Back Side	2560	0.871	0.824	1.057
			50	0	Back Side	2510	0.968	0.955	1.014
			50	0	Back Side	2535	0.778	0.766	1.016
			50	0	Back Side	2560	0.802	0.778	1.031
			100	0	Back Side	2510	0.944	0.927	1.018
			100	0	Back Side	2535	0.779	0.773	1.008
			100	0	Back Side	2560	0.789	0.785	1.005
LTE Band 41	20M	QPSK	1	0	Back Side	2506	1.096	1.038	1.056
			1	0	Back Side	2593	0.872	0.822	1.061
			1	0	Back Side	2680	0.842	0.819	1.028
			50	0	Back Side	2506	0.983	0.974	1.009
			50	0	Back Side	2593	0.837	0.804	1.041
			50	0	Back Side	2680	0.864	0.830	1.041



			100	0	Back Side	2506	0.984	0.983	1.001
			100	0	Back Side	2593	0.753	0.748	1.007
			100	0	Back Side	2680	0.767	0.734	1.045
LTE Band 66	20M	QPSK	1	0	Back Side	1720	1.078	1.049	1.028
			1	0	Back Side	1745	1.171	1.124	1.042
			1	0	Back Side	1770	1.099	1.051	1.046
			50	0	Back Side	1720	0.879	0.848	1.037
			50	0	Back Side	1745	0.962	0.946	1.017
			50	0	Back Side	1770	0.79	0.773	1.022
			100	0	Back Side	1720	0.877	0.858	1.022
			100	0	Back Side	1745	0.942	0.898	1.049
			100	0	Back Side	1770	0.892	0.857	1.041

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 865664 D01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
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 $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. GSM + 2.4GHz WLAN/5G WLAN+NFC
	2. GSM + Bluetooth+NFC
	3. WCDMA + 2.4GHz WLAN/5G WLAN+NFC
	4. WCDMA + Bluetooth+NFC
	5. LTE + 2.4GHz WLAN/5G WLAN+NFC
	6. LTE + Bluetooth+NFC

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f \text{ (GHz)}} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $>50 \text{ mm}$.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency (GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Body	6	3.981	5	2.48	0.167
NFC	Body	-38	0.000158	5	0.01356	0.0000005



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN + NFC	Body	GSM	1.161	1.552
		NFC	0.0000005	
		2.4G WLAN	0.391	
GSM + Bluetooth+ NFC	Body	GSM	1.161	1.328
		NFC	0.0000005	
		BT	0.167	
GSM + 5G WLAN+ NFC	Body	GSM	1.161	1.456
		NFC	0.0000005	
		5G WLAN	0.295	
WCDMA + 2.4G WLAN + NFC	Body	WCDMA	0.864	1.255
		NFC	0.0000005	
		2.4G WLAN	0.391	
WCDMA + Bluetooth+ NFC	Body	WCDMA	0.864	1.031
		NFC	0.0000005	
		BT	0.167	
WCDMA + 5G WLAN+ NFC	Body	WCDMA	0.864	1.159
		NFC	0.0000005	
		5G WLAN	0.295	
LTE + 2.4G WLAN + NFC	Body	LTE	1.190	1.581
		NFC	0.0000005	
		2.4G WLAN	0.391	
LTE + Bluetooth+ NFC	Body	LTE	1.190	1.357
		NFC	0.0000005	
		BT	0.167	
LTE + 5G WLAN+ NFC	Body	LTE	1.190	1.485
		NFC	0.0000005	
		5G WLAN	0.295	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.05.20	2028.05.19
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.05.20	2028.05.19
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.05.20	2028.05.19
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.05.20	2028.05.19
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.05.20	2028.05.19
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.05.22	2028.05.21
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

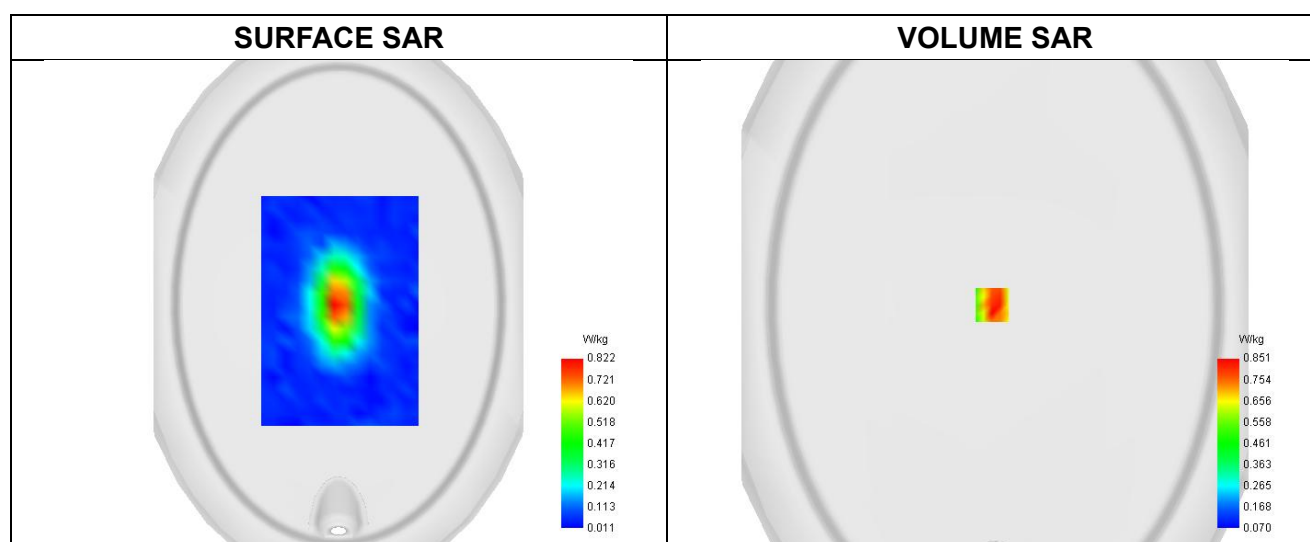
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2025-11-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.29
Conductivity (S/m)	0.88
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

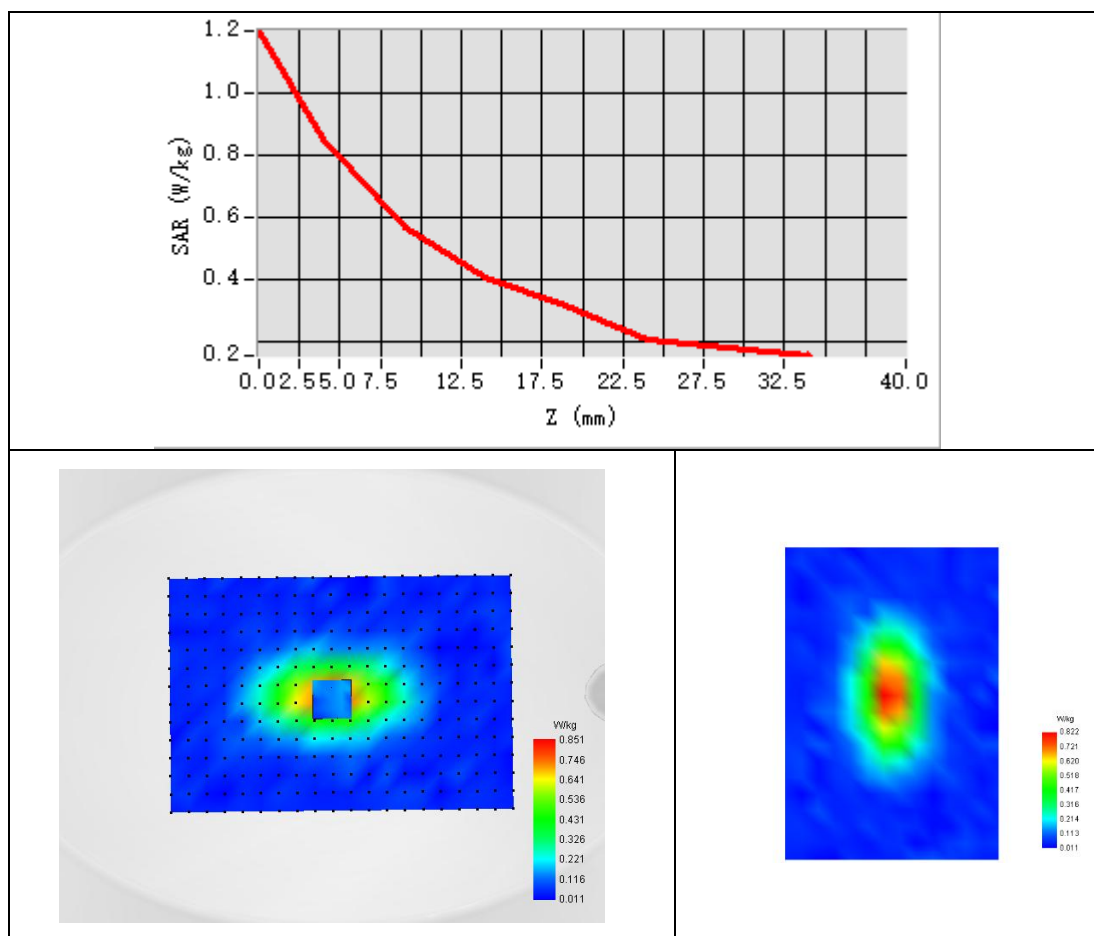


Maximum location: X=-3.00, Y=0.00 ; SAR Peak: 1.22 W/kg

SAR 10g (W/Kg)	0.578
SAR 1g (W/Kg)	0.890



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

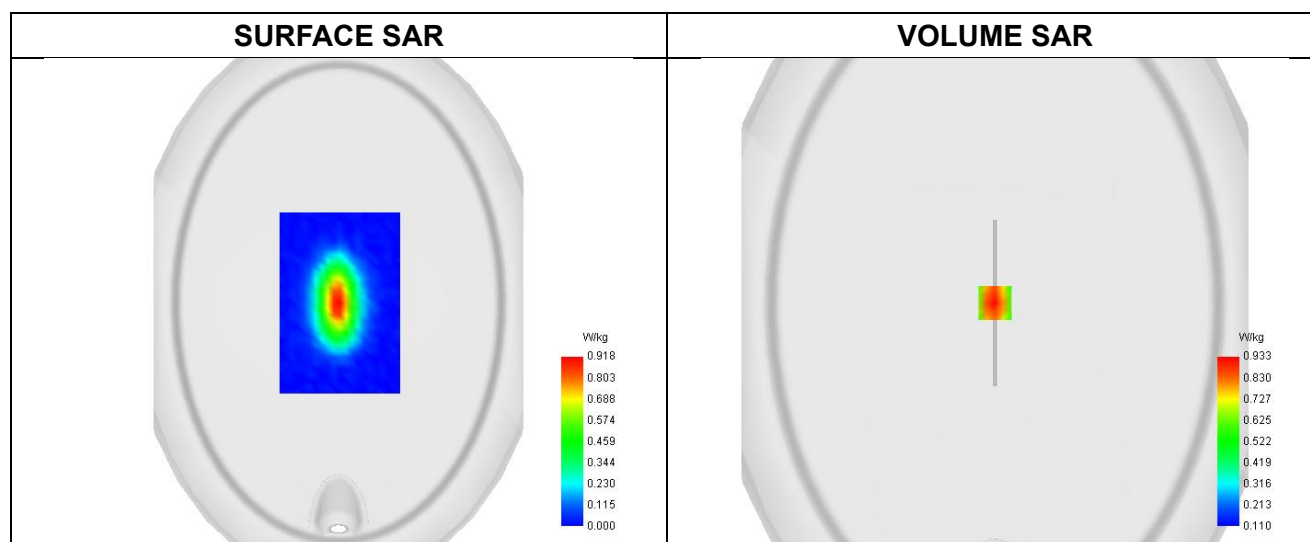
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2025-11-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.42
Conductivity (S/m)	0.95
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

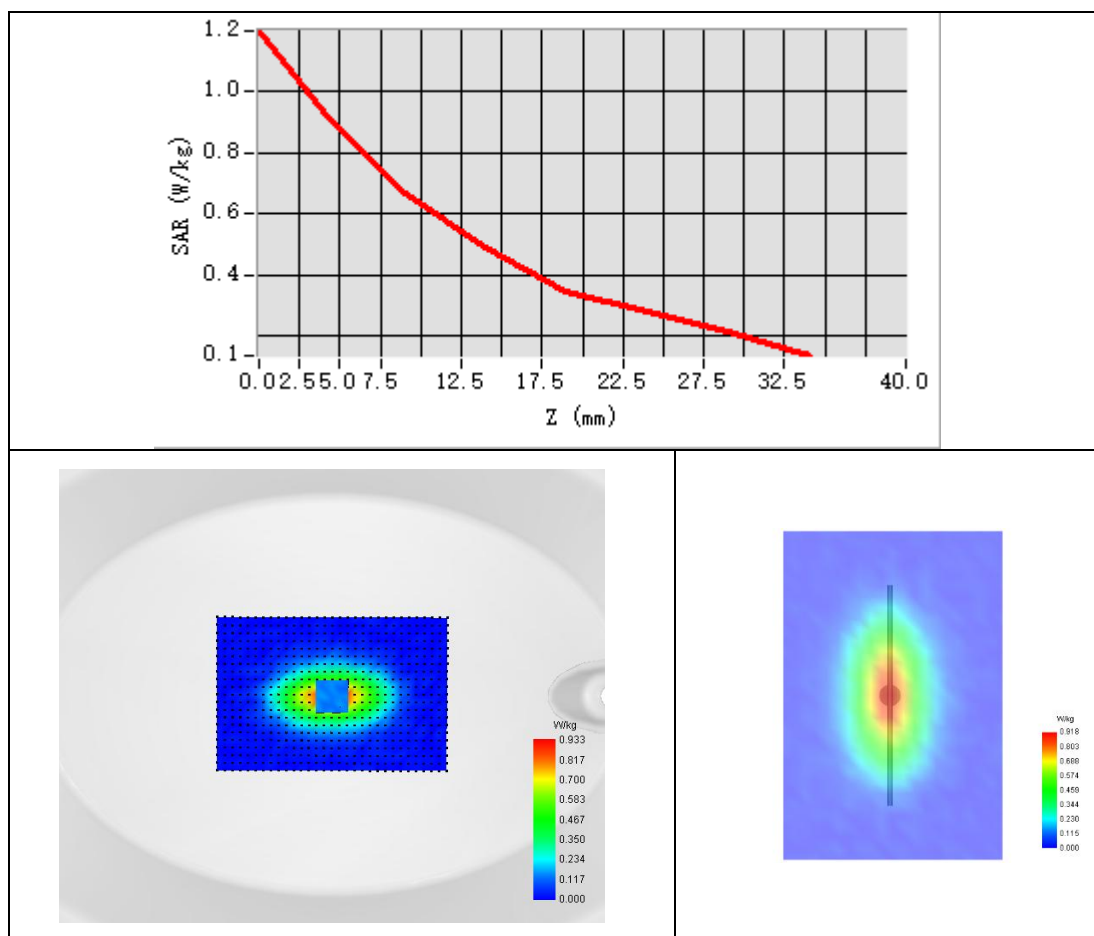


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	0.608
SAR 1g (W/Kg)	0.968



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

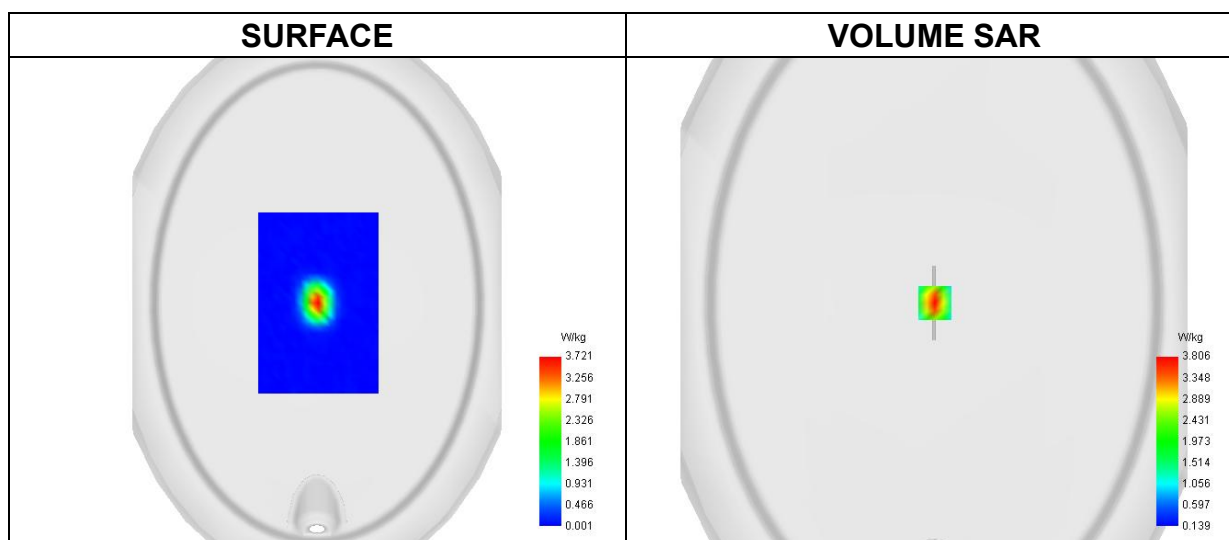
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement:2025-11-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.98
Conductivity (S/m)	1.37
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

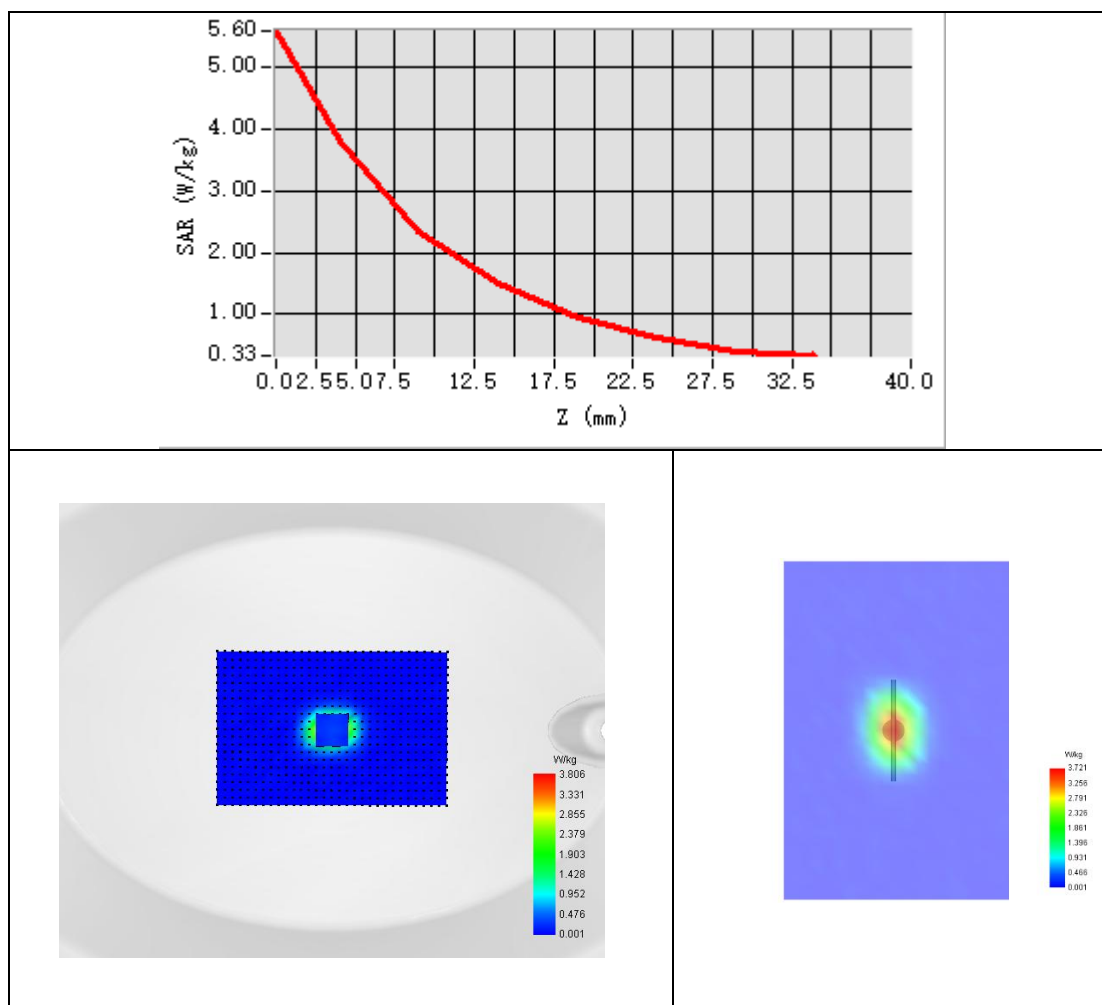


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 5.88 W/kg

SAR 10g (W/Kg)	1.886
SAR 1g (W/Kg)	3.691



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

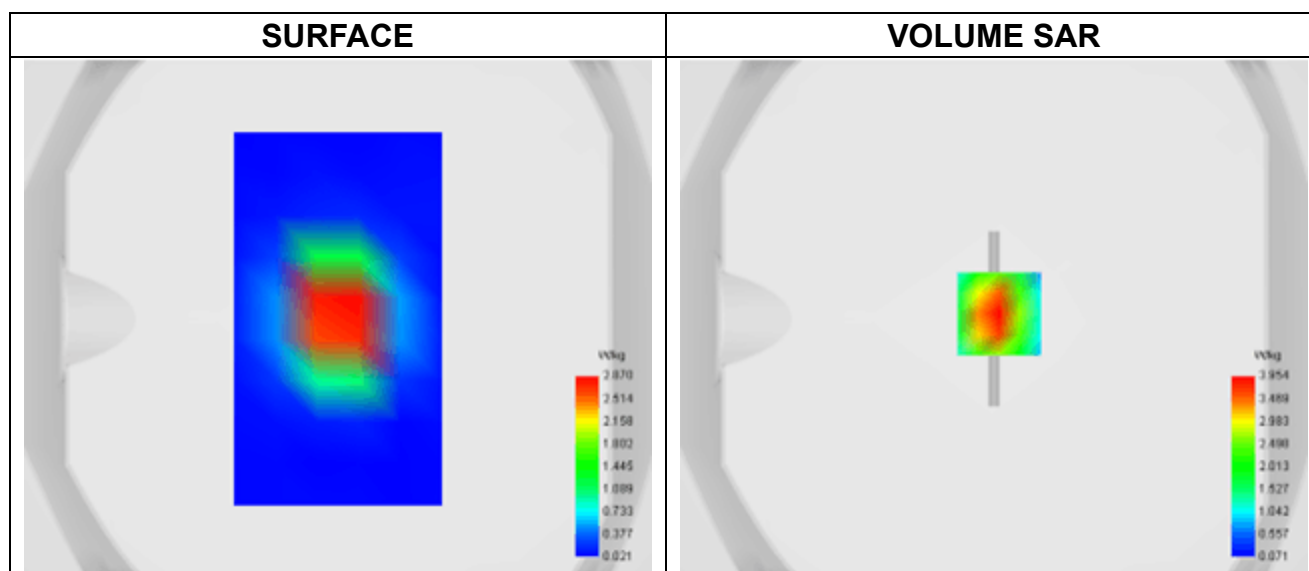
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement:2025-11-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	41.24
Conductivity (S/m)	1.39
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

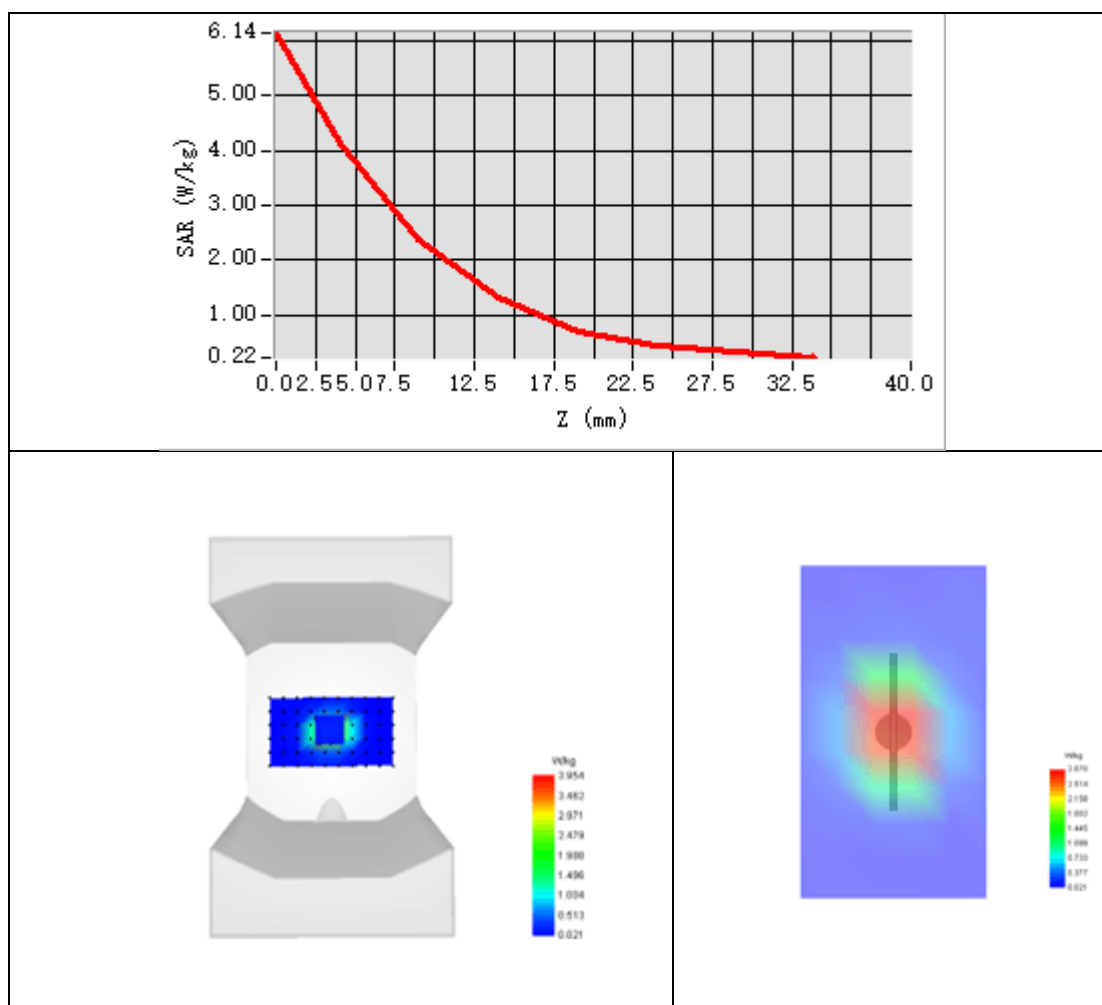


Maximum location: X=5.00, Y=1.00 ; SAR Peak: 6.89 W/kg

SAR 10g (W/Kg)	2.093
SAR 1g (W/Kg)	3.996



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

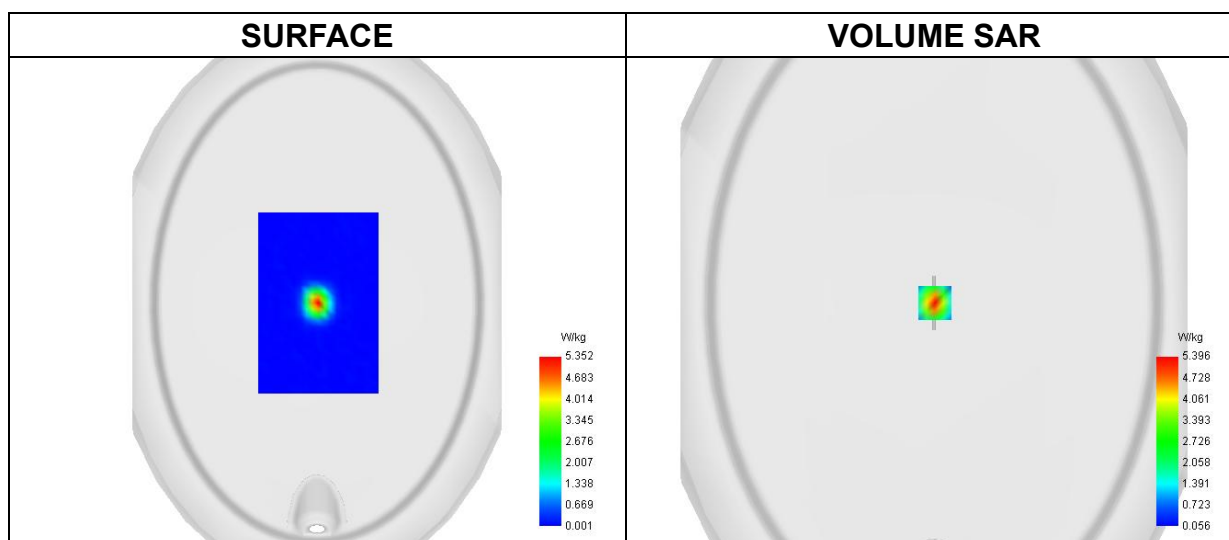
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement:2025-11-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.02
Conductivity (S/m)	1.78
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1

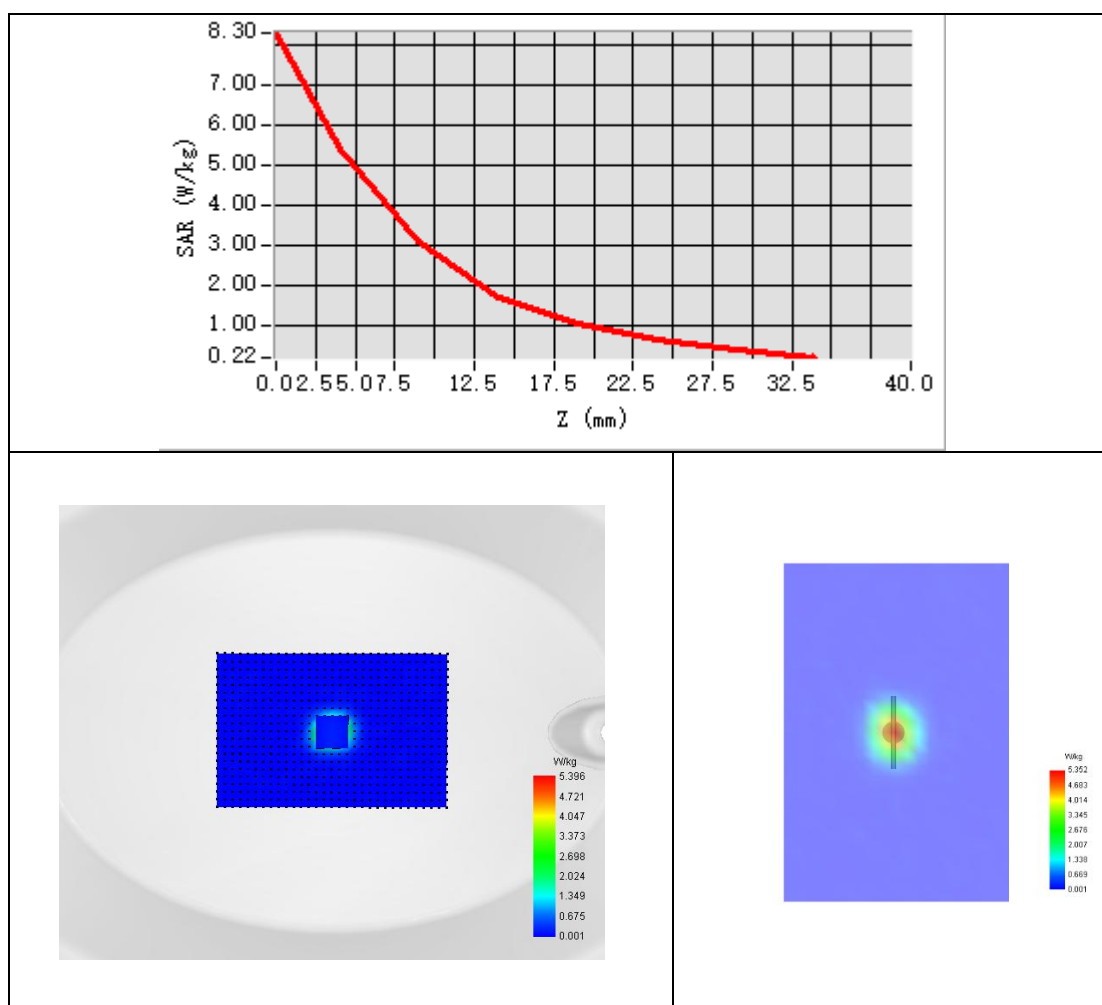


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.26 W/kg

SAR 10g (W/Kg)	2.457
SAR 1g (W/Kg)	5.283



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

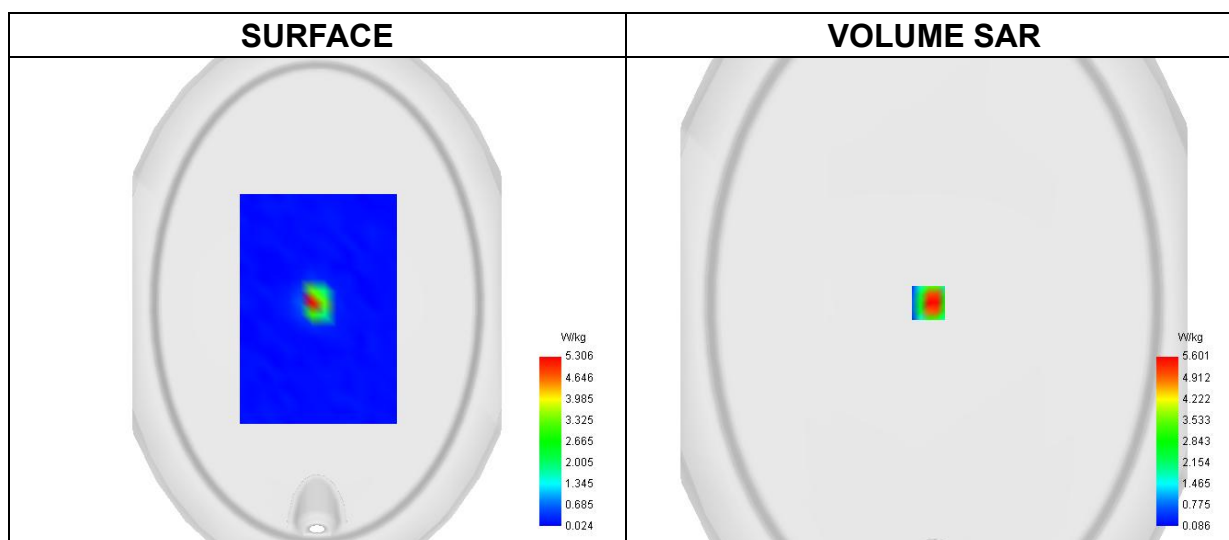
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement:2025-10-31

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	40.29
Conductivity (S/m)	1.95
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

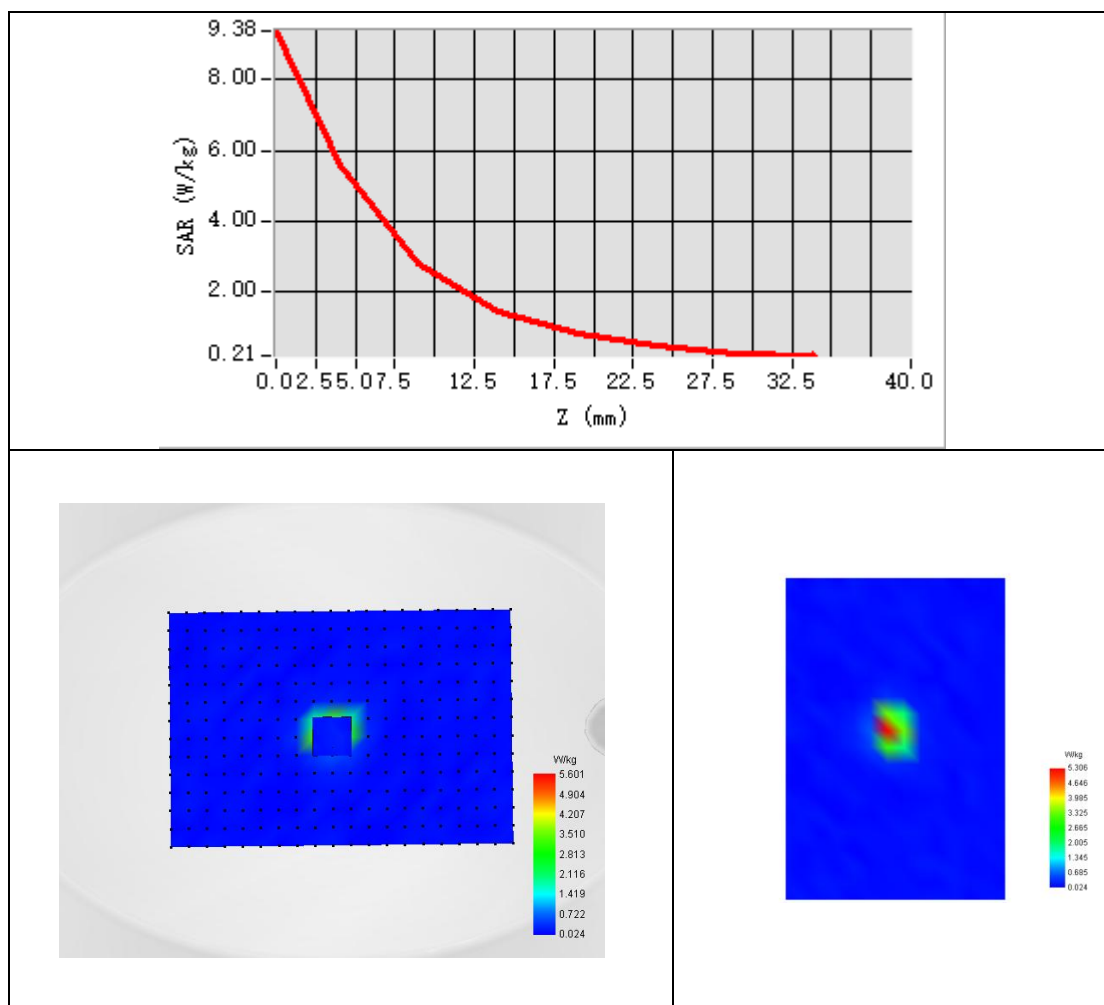


Maximum location: X=-5.00, Y=0.00 ; SAR Peak: 10.31 W/kg

SAR 10g (W/Kg)	2.489
SAR 1g (W/Kg)	5.628



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

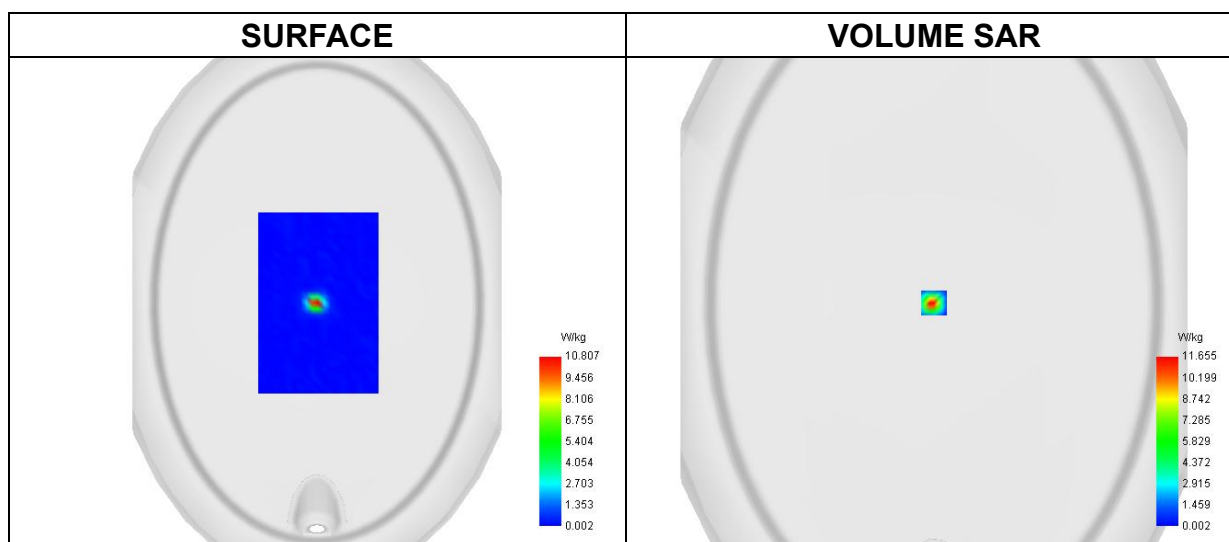
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement:2025-11-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.73
Conductivity (S/m)	4.62
Probe	2225-EPGO-450
ConvF	1.58
Crest factor:	1:1

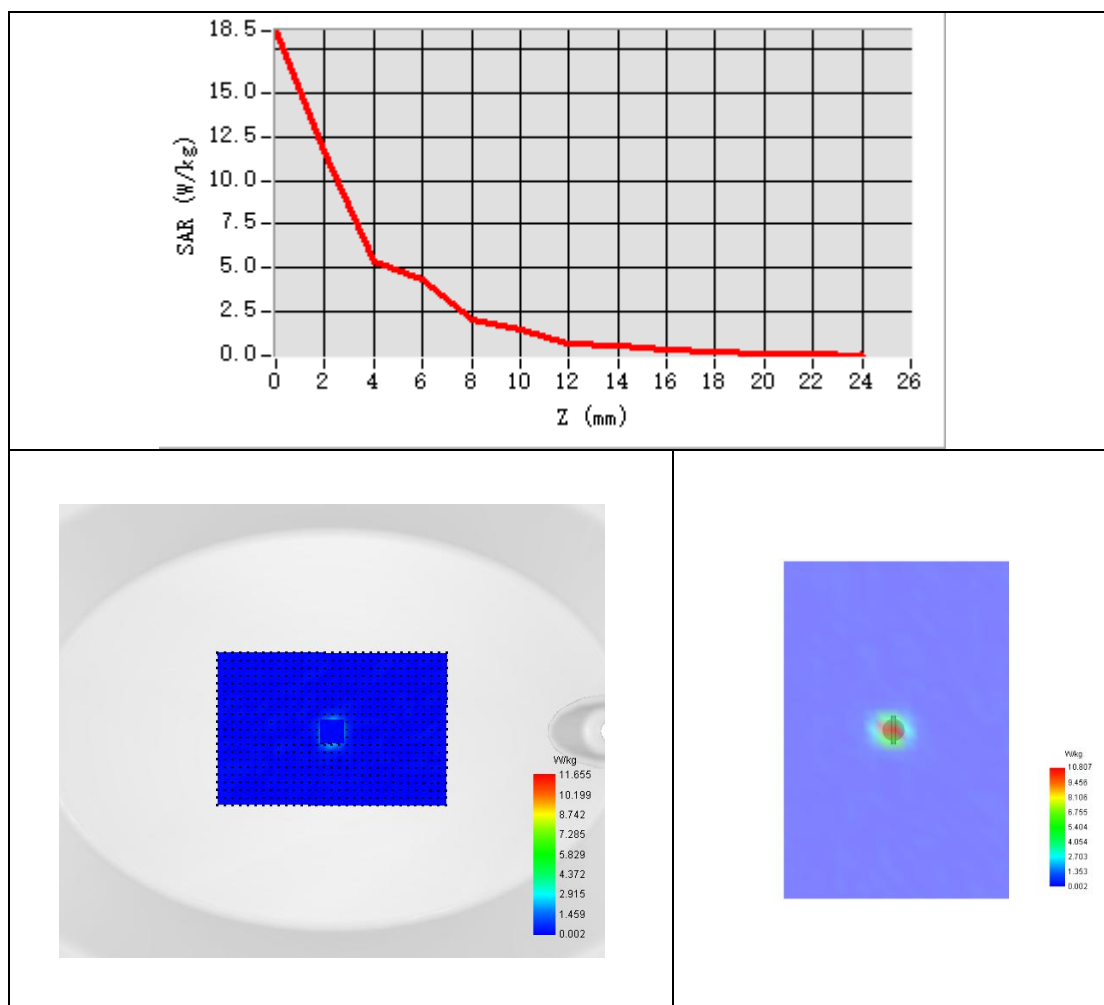


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 19.02 W/kg

SAR 10g (W/Kg)	2.280
SAR 1g (W/Kg)	7.778



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

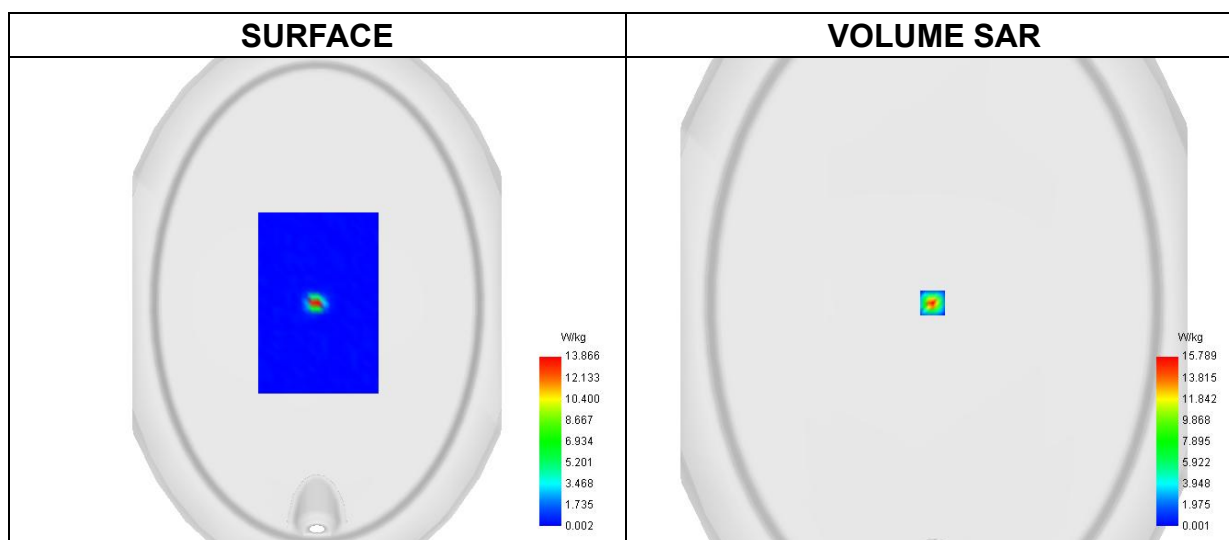
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement:2025-11-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	37.12
Conductivity (S/m)	4.89
Probe	2225-EPGO-450
ConvF	1.60
Crest factor:	1:1

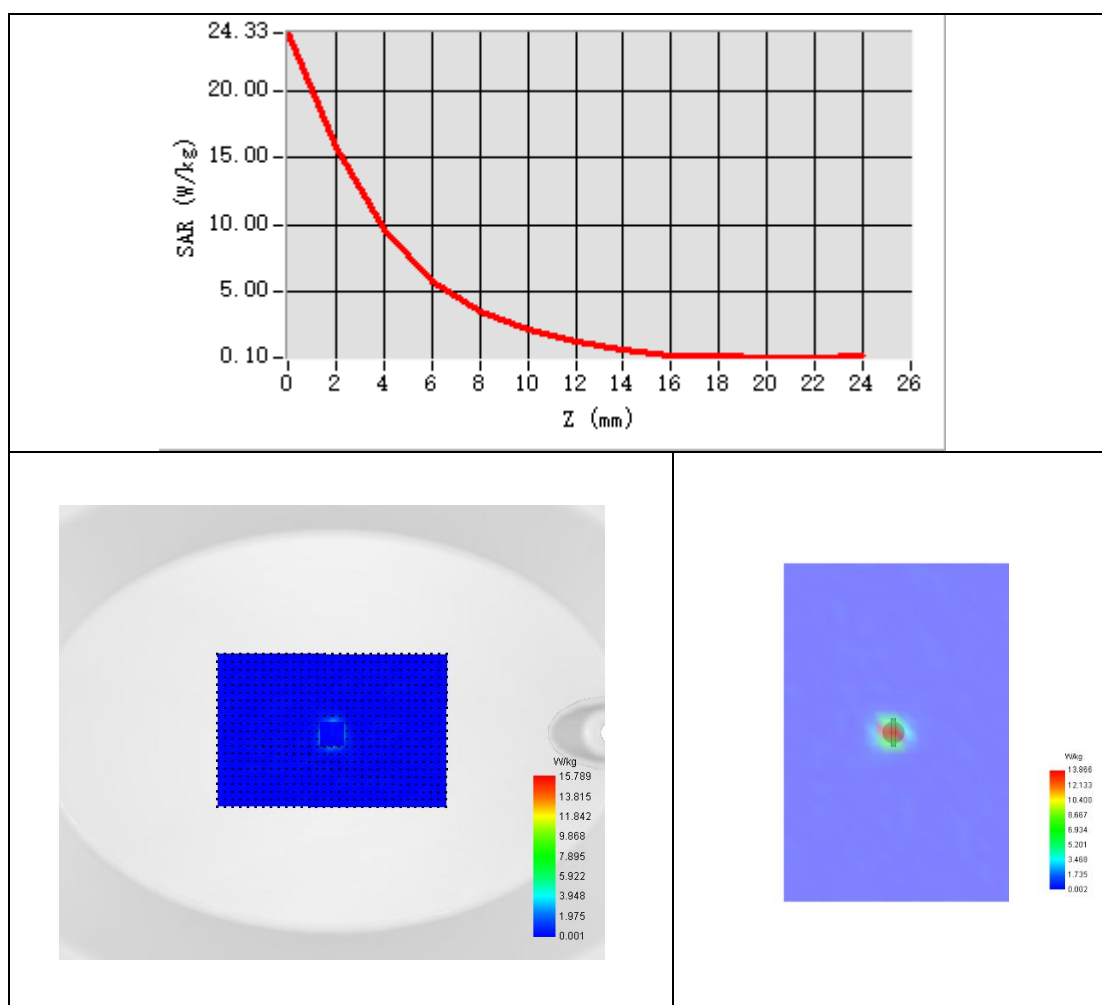


Maximum location: X=6.00, Y=5.00 ; SAR Peak: 25.07 W/kg

SAR 10g (W/Kg)	2.253
SAR 1g (W/Kg)	7.695



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

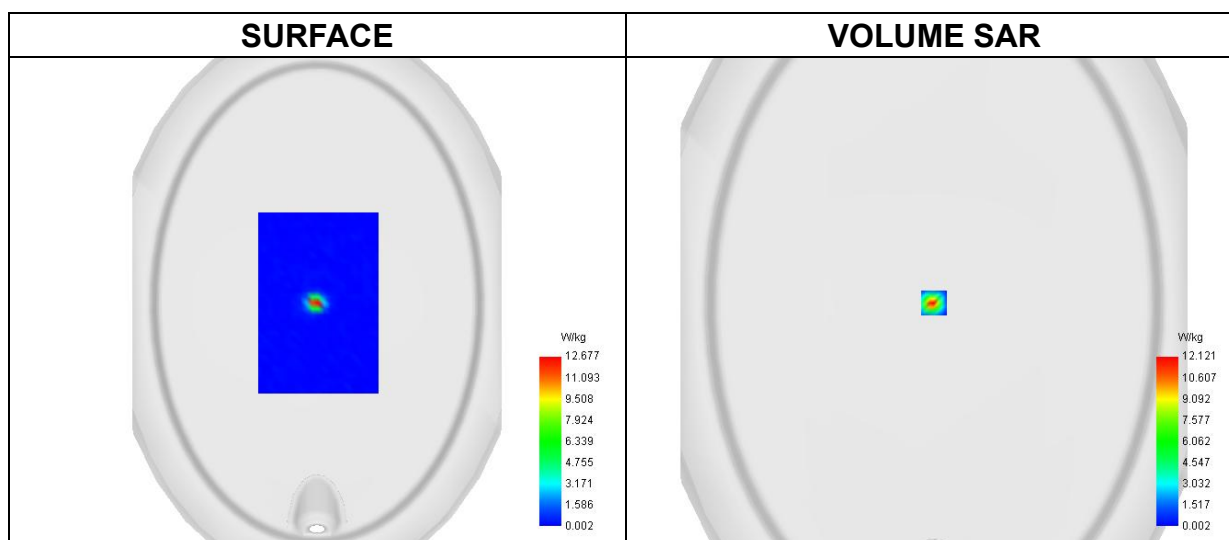
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement:2025-11-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.07
Conductivity (S/m)	5.26
Probe	2225-EPGO-450
ConvF	1.62
Crest factor:	1:1

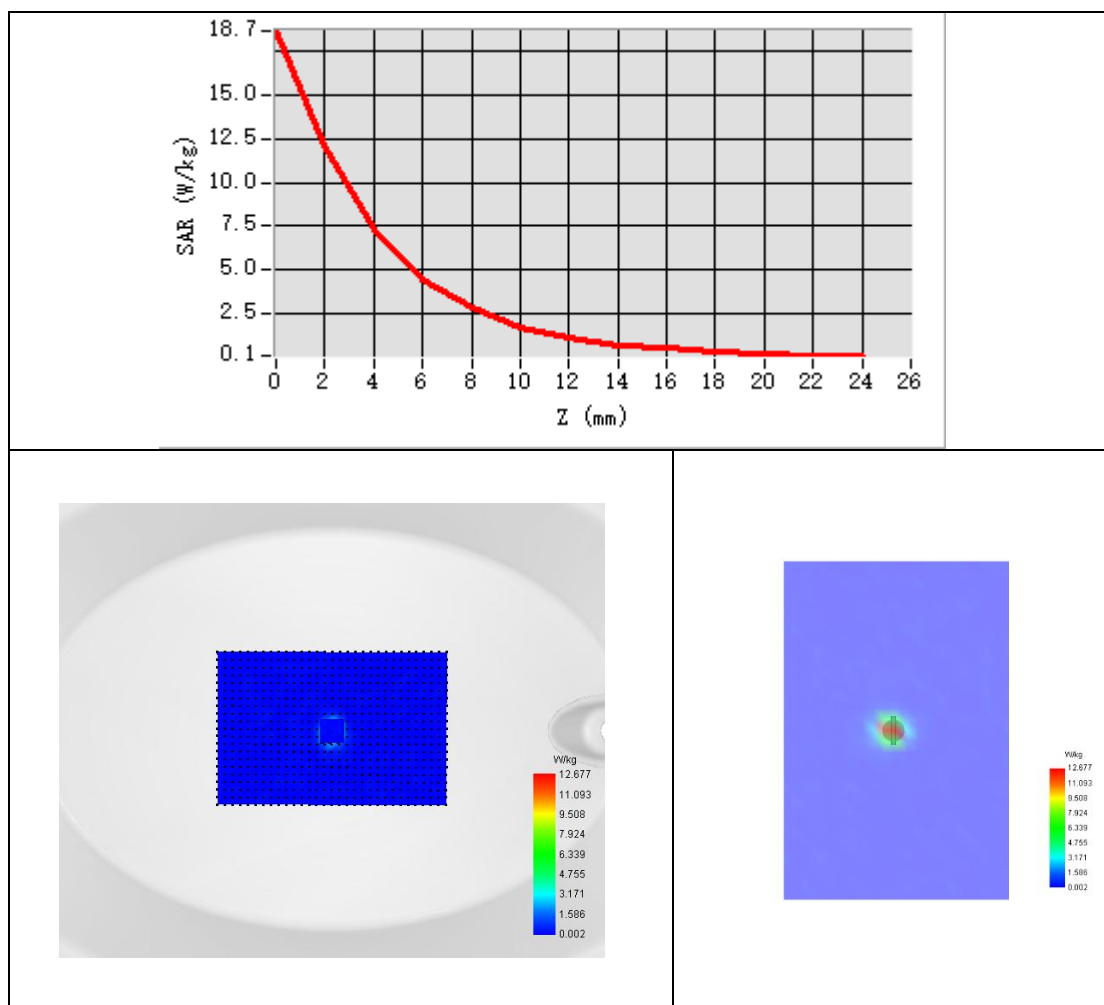


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 20.84 W/kg

SAR 10g (W/Kg)	2.334
SAR 1g (W/Kg)	8.043



Z Axis Scan



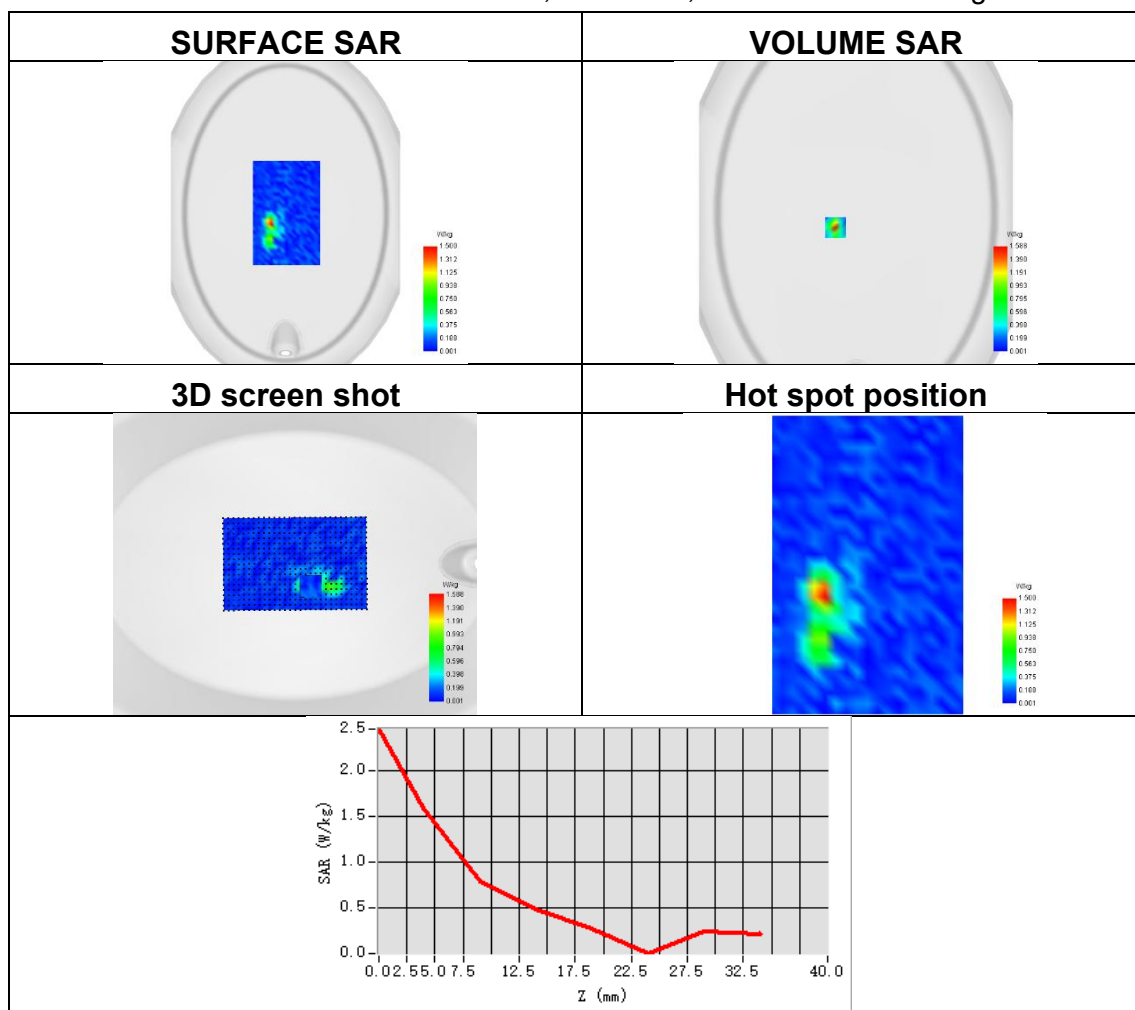


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-11-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.555
SAR 1g (W/Kg)	1.296
ConvF	1.72
Relative permittivity	42.42
Conductivity (S/m)	0.95

Maximum location: X=-32.00, Y=-23.00 ; SAR Peak: 2.52 W/kg

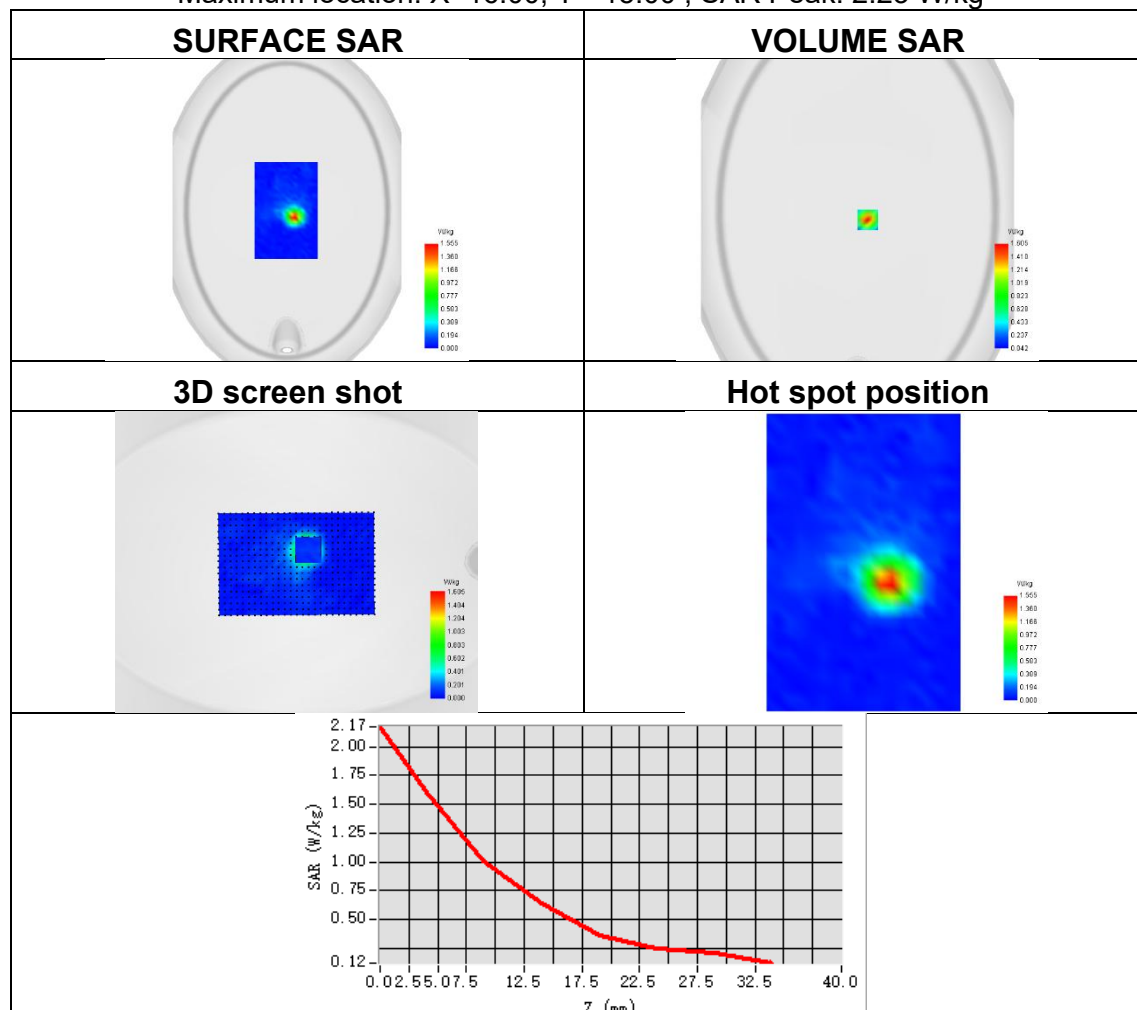




Plot 2:

Test Date	2025-11-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1909.8
SAR 10g (W/Kg)	0.791
SAR 1g (W/Kg)	1.145
ConvF	2.20
Relative permittivity	41.24
Conductivity (S/m)	1.39

Maximum location: X=16.00, Y=-15.00 ; SAR Peak: 2.23 W/kg

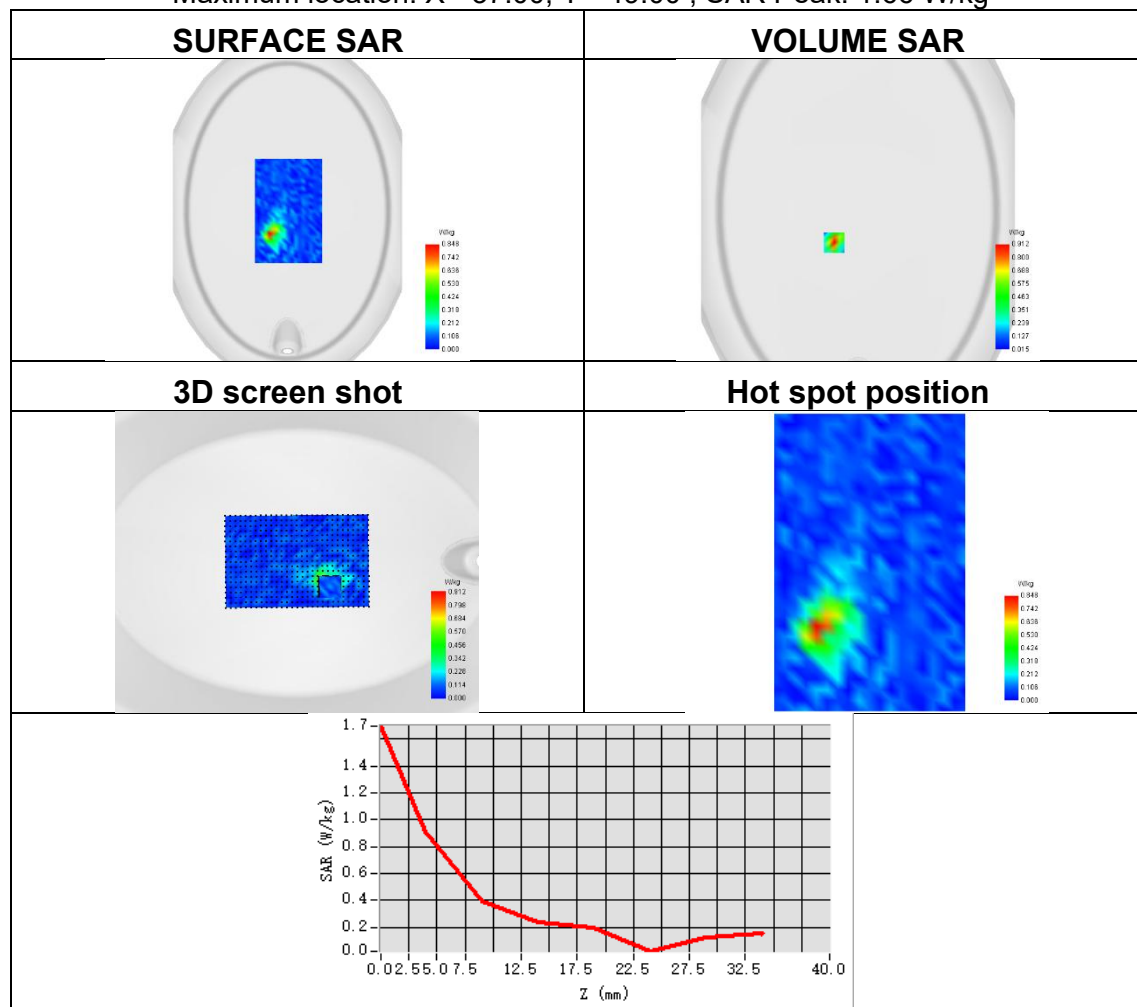




Plot 3:

Test Date	2025-11-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1852.4
SAR 10g (W/Kg)	0.386
SAR 1g (W/Kg)	0.858
ConvF	1.92
Relative permittivity	41.24
Conductivity (S/m)	1.39

Maximum location: X=-37.00, Y=-49.00 ; SAR Peak: 1.66 W/kg

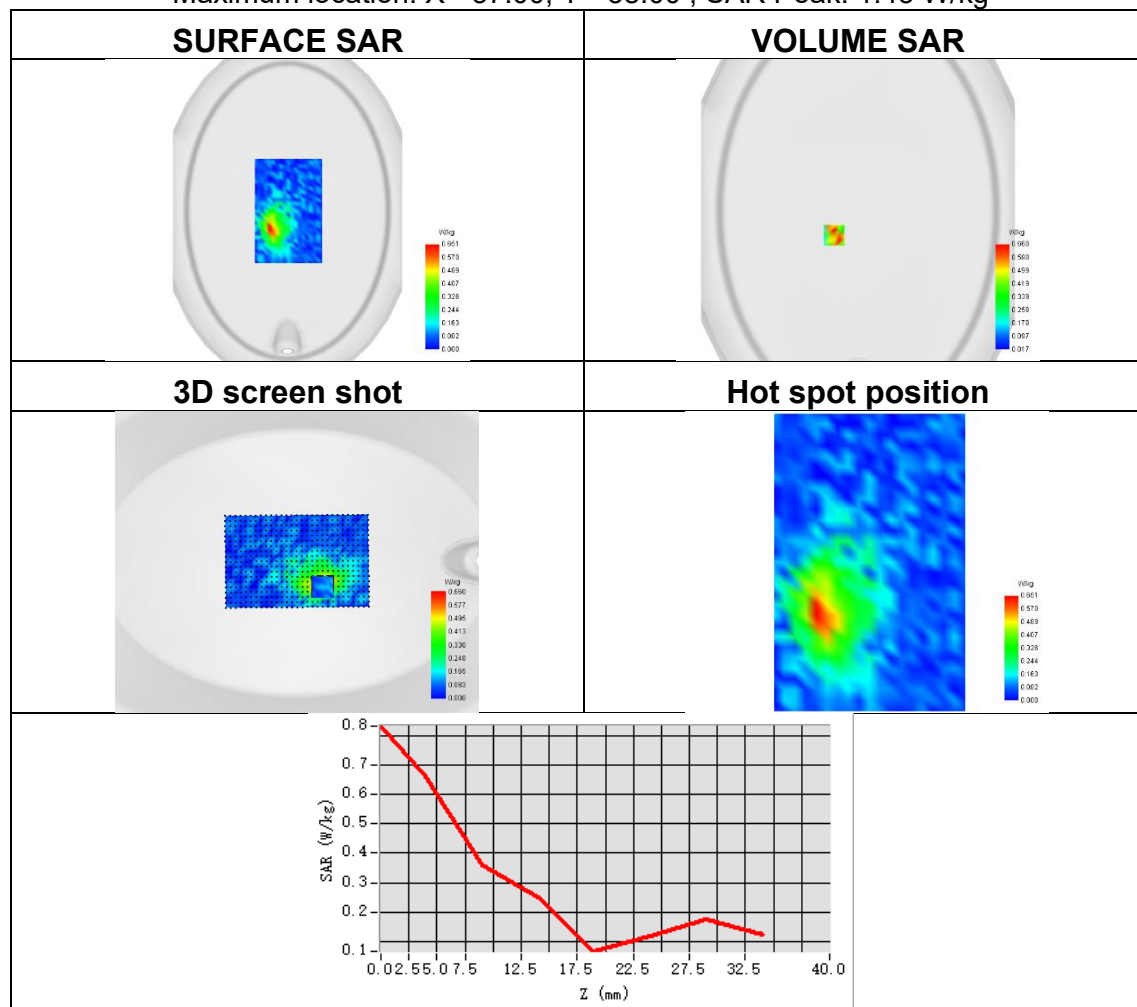




Plot 4:

Test Date	2025-11-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 4 (1700)
Signal	HSDPA
Frequency	1712.6
SAR 10g (W/Kg)	0.326
SAR 1g (W/Kg)	0.670
ConvF	1.92
Relative permittivity	40.98
Conductivity (S/m)	1.37

Maximum location: X=-37.00, Y=-38.00 ; SAR Peak: 1.43 W/kg

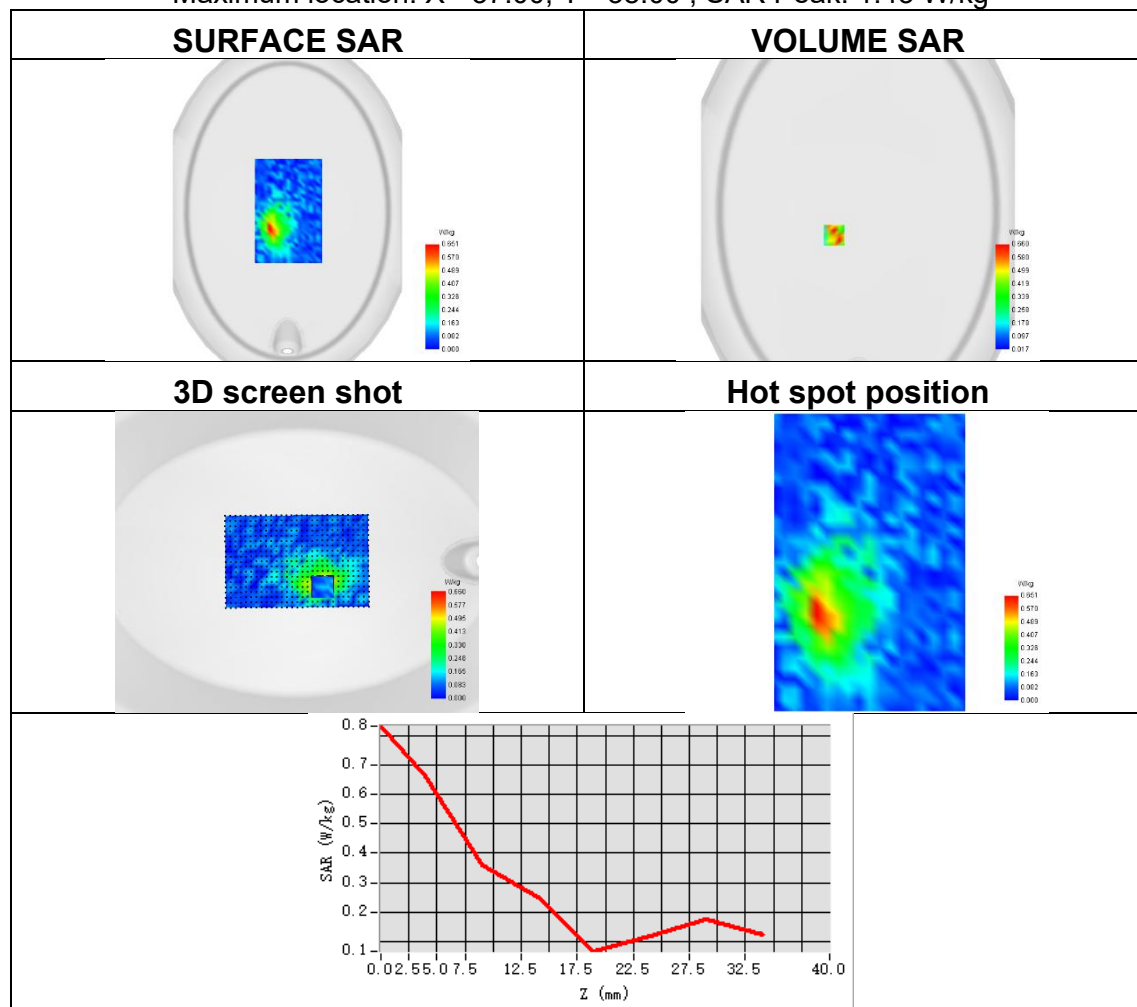




Plot 5:

Test Date	2025-11-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.326
SAR 1g (W/Kg)	0.670
ConvF	1.72
Relative permittivity	42.42
Conductivity (S/m)	0.95

Maximum location: X=-37.00, Y=-38.00 ; SAR Peak: 1.43 W/kg

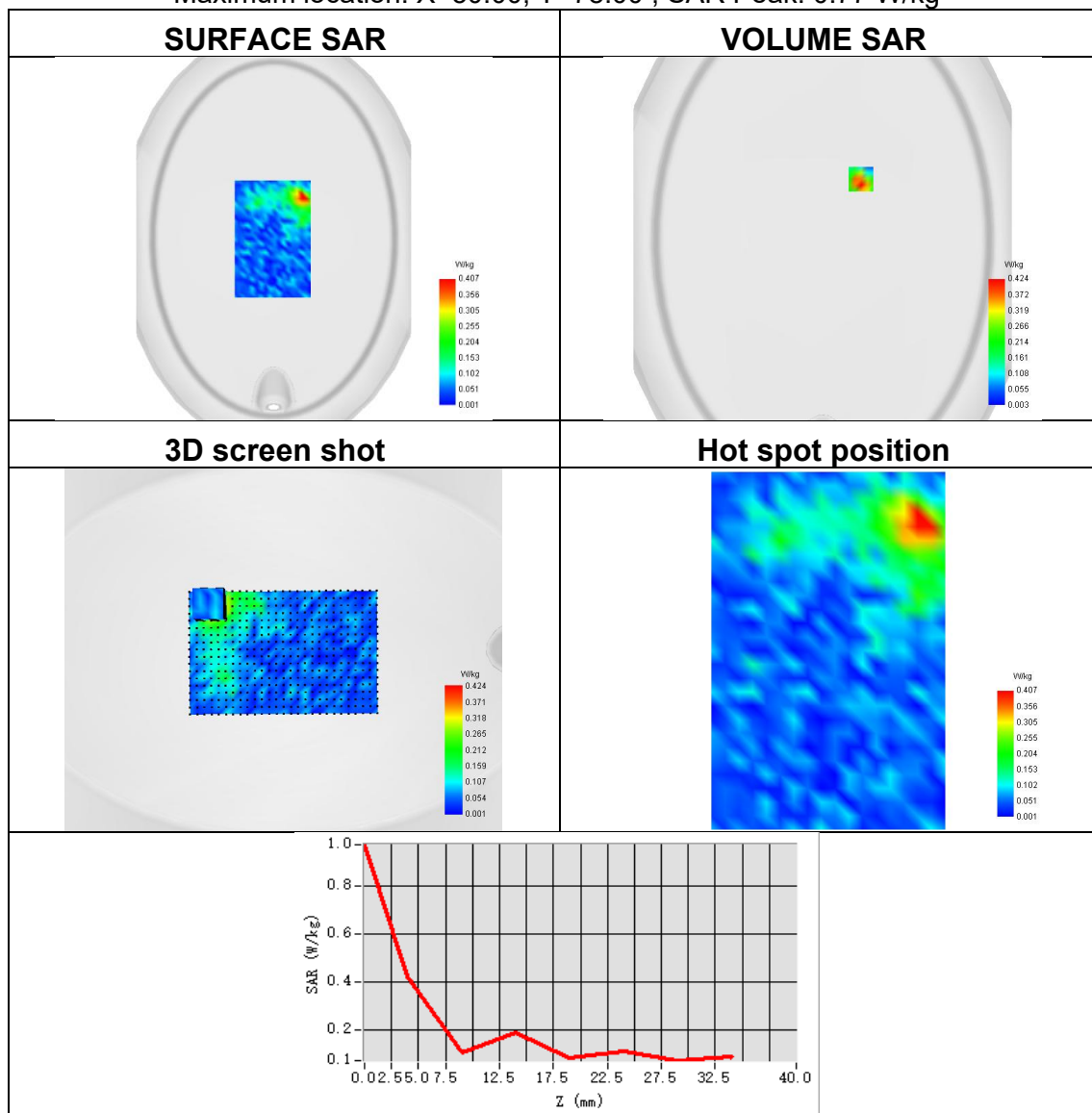




Plot 6:

Test Date	2025-11-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2412
SAR 10g (W/Kg)	0.197
SAR 1g (W/Kg)	0.376
ConvF	2.33
Relative permittivity	40.02
Conductivity (S/m)	1.78

Maximum location: X=50.00, Y=78.00 ; SAR Peak: 0.77 W/kg

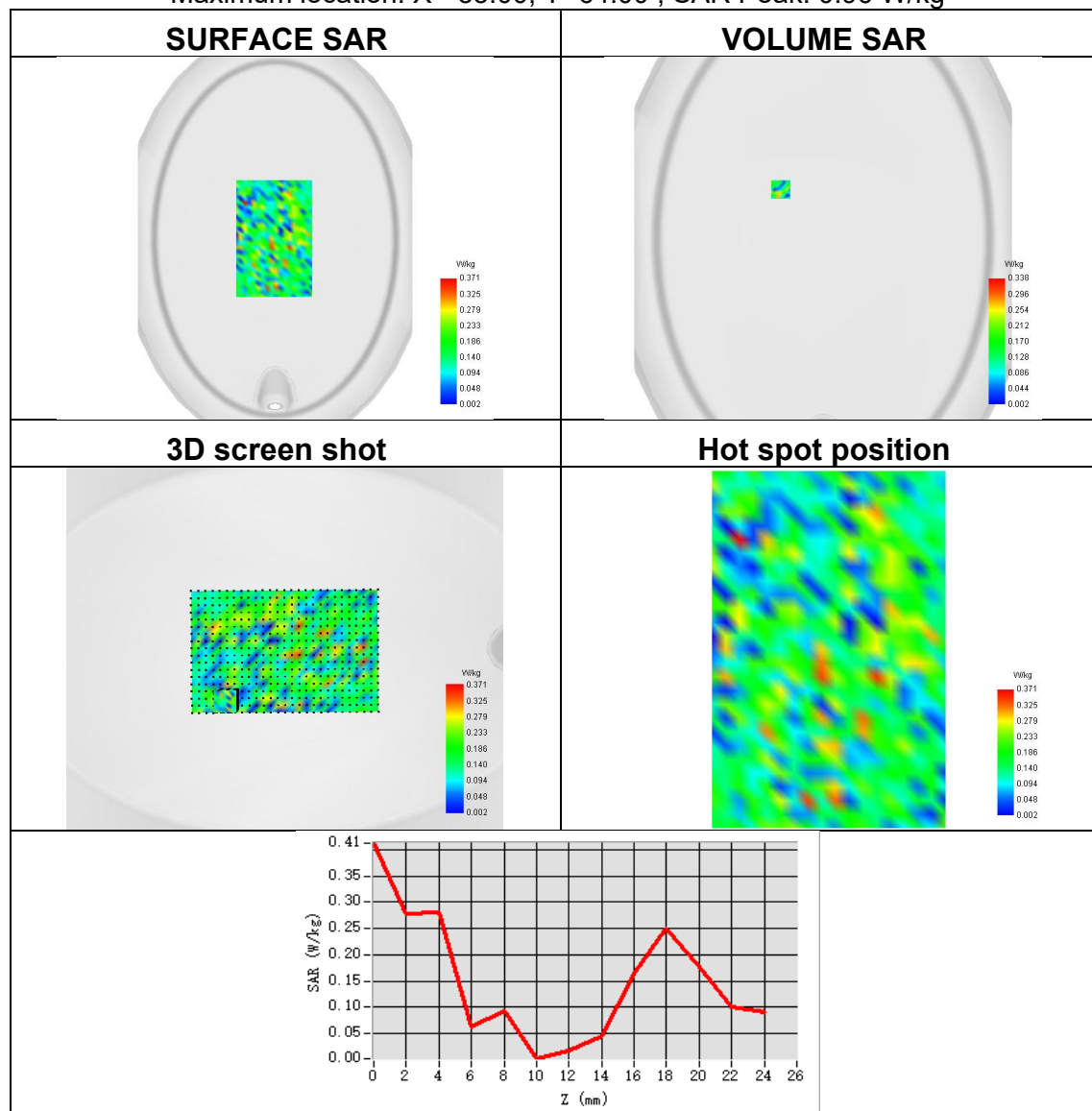




Plot 7:

Test Date	2025-11-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	802.11ac-VHT80
Frequency	5240
SAR 10g (W/Kg)	0.095
SAR 1g (W/Kg)	0.199
ConvF	1.99
Relative permittivity	36.73
Conductivity (S/m)	4.62

Maximum location: X=-55.00, Y=64.00 ; SAR Peak: 0.96 W/kg

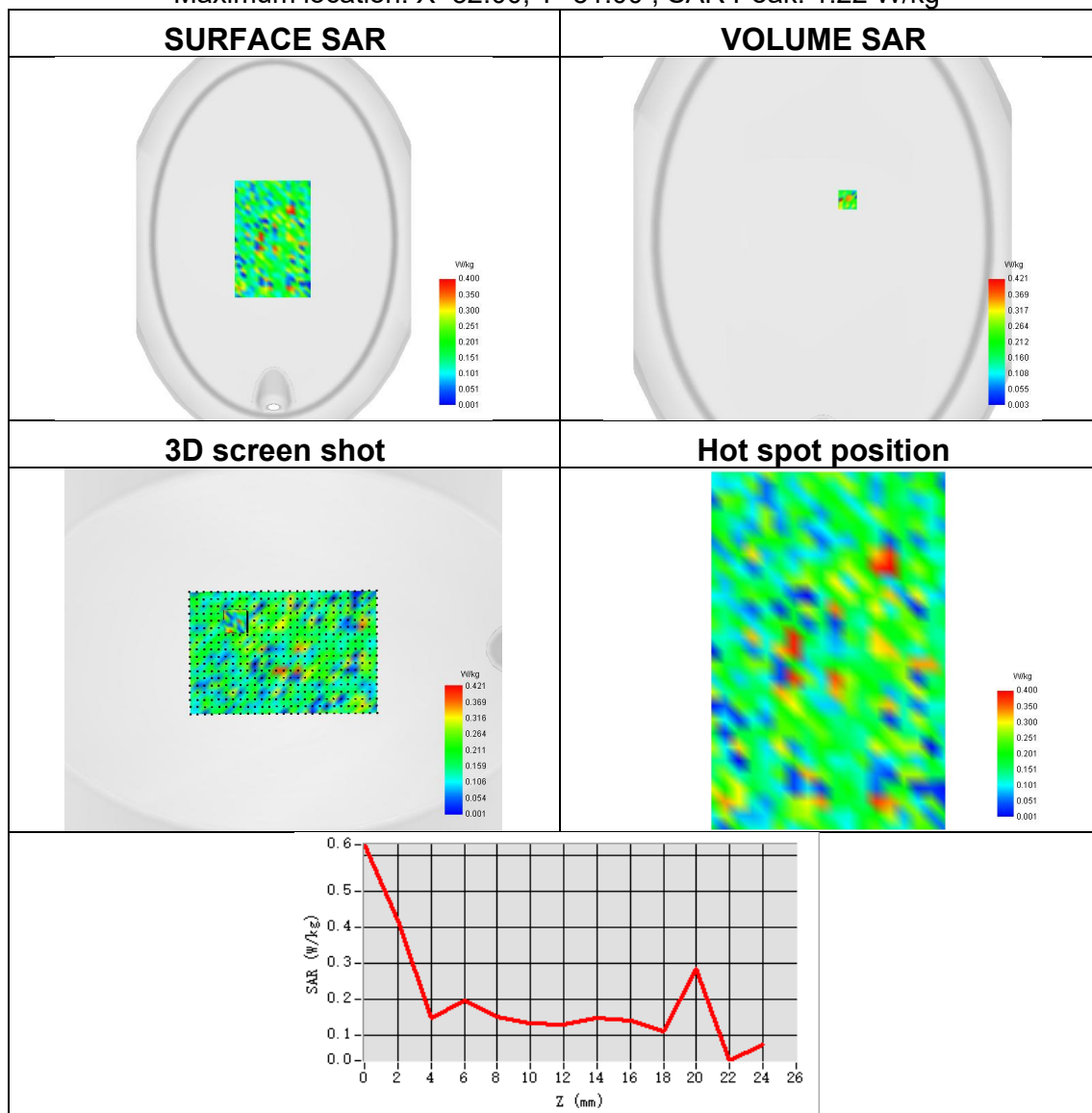




Plot 8:

Test Date	2025-11-05
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.221
ConvF	1.87
Relative permittivity	37.12
Conductivity (S/m)	4.89

Maximum location: X=32.00, Y=51.00 ; SAR Peak: 1.22 W/kg

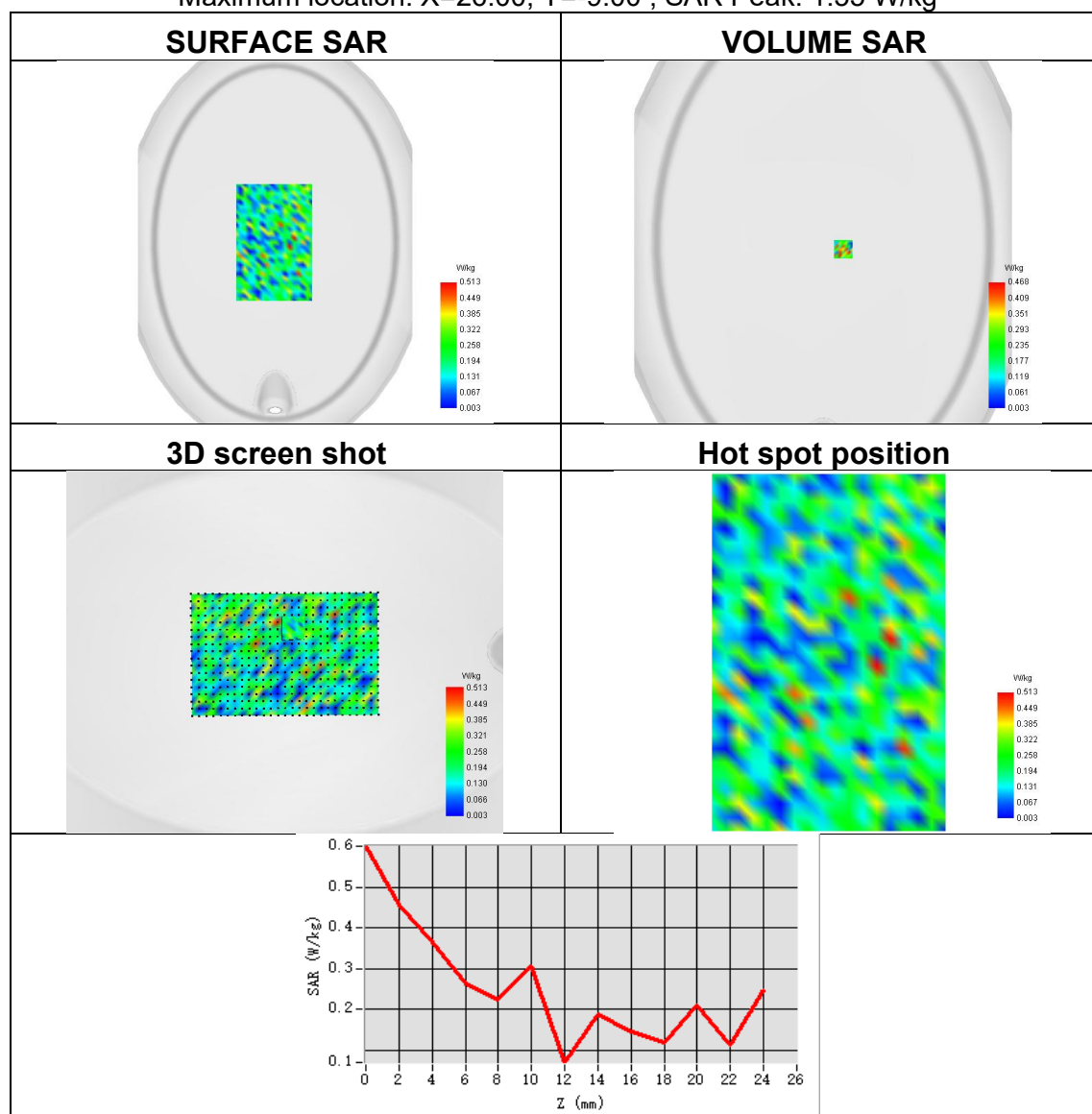




Plot 9:

Test Date	2025-11-05
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.167
SAR 1g (W/Kg)	0.284
ConvF	1.70
Relative permittivity	36.07
Conductivity (S/m)	5.26

Maximum location: X=26.00, Y=-9.00 ; SAR Peak: 1.55 W/kg

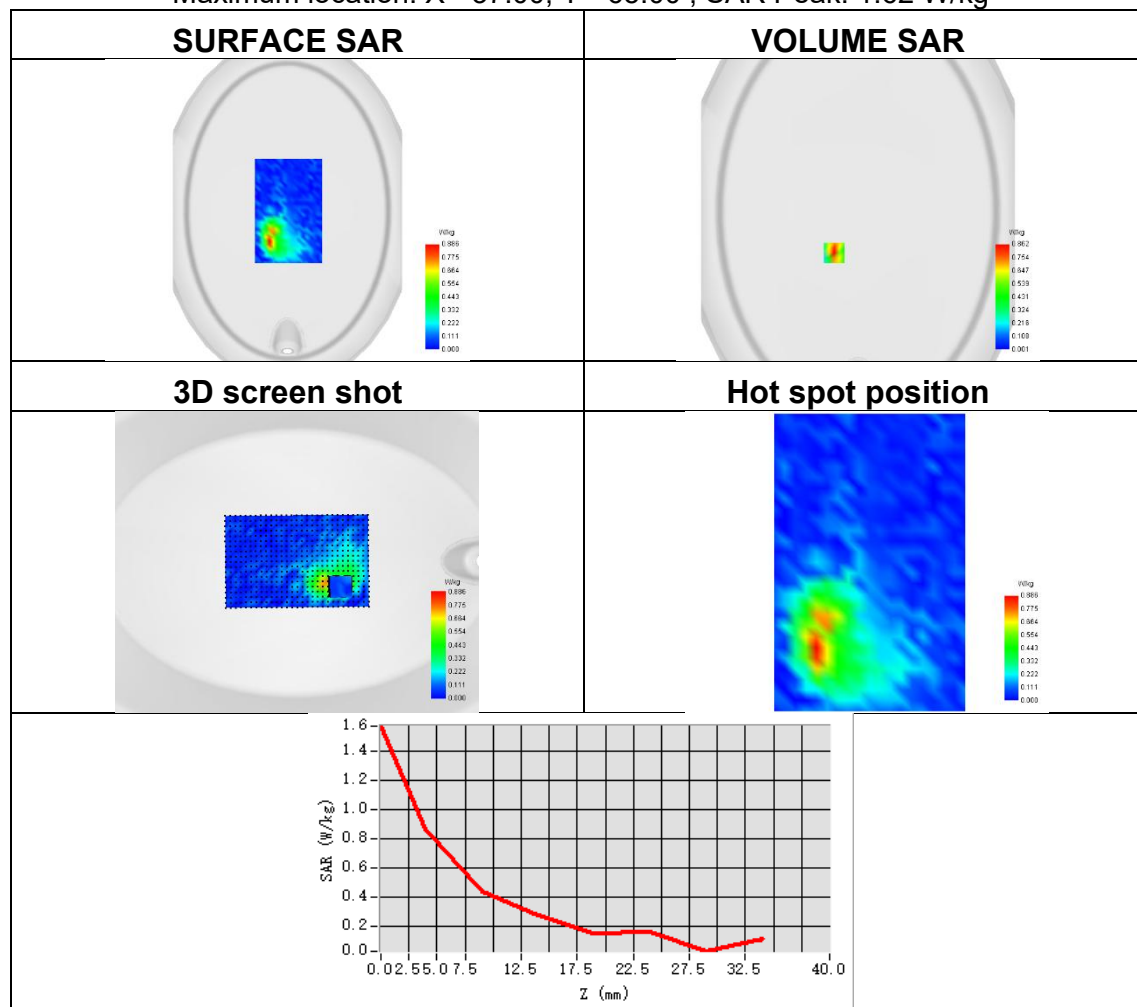




Plot 10:

Test Date	2025-11-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	LTE band 2
Signal	LTE FDD
Frequency	1880
SAR 10g (W/Kg)	0.396
SAR 1g (W/Kg)	0.859
ConvF	2.20
Relative permittivity	41.24
Conductivity (S/m)	1.39

Maximum location: X=-37.00, Y=-65.00 ; SAR Peak: 1.62 W/kg

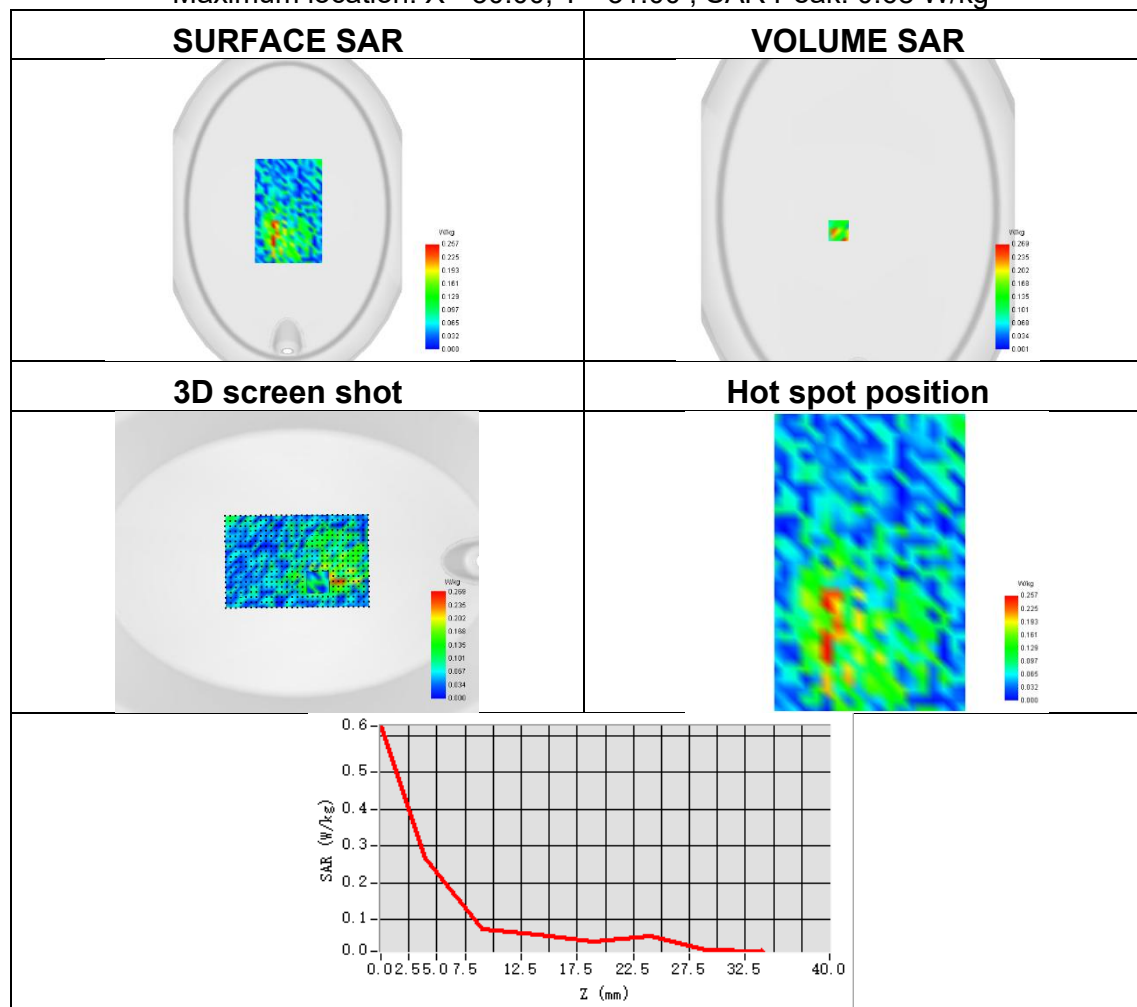




Plot 11:

Test Date	2025-11-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.215
ConvF	1.92
Relative permittivity	40.98
Conductivity (S/m)	1.37

Maximum location: X=-30.00, Y=-31.00 ; SAR Peak: 0.68 W/kg

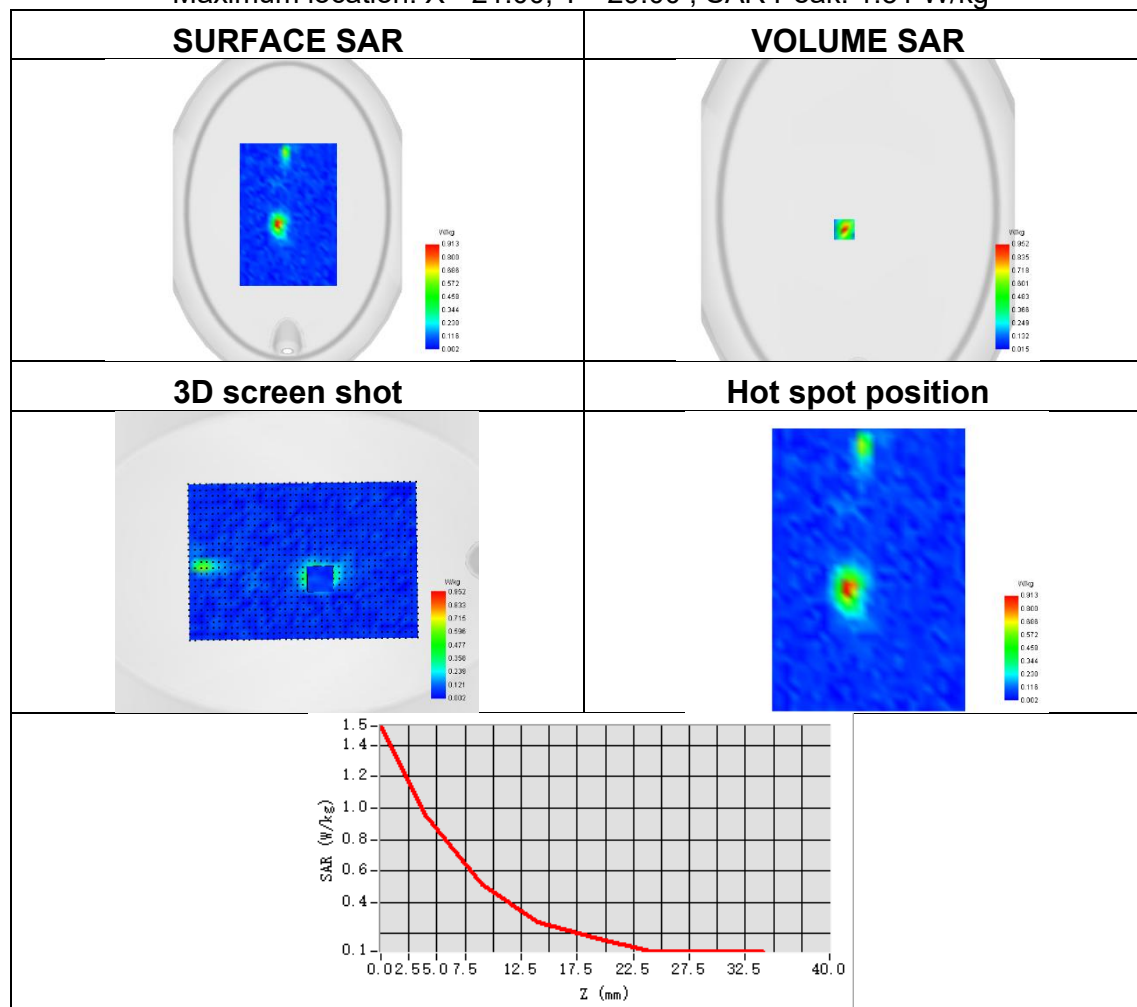




Plot 12:

Test Date	2025-11-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.390
SAR 1g (W/Kg)	0.842
ConvF	1.72
Relative permittivity	42.42
Conductivity (S/m)	0.95

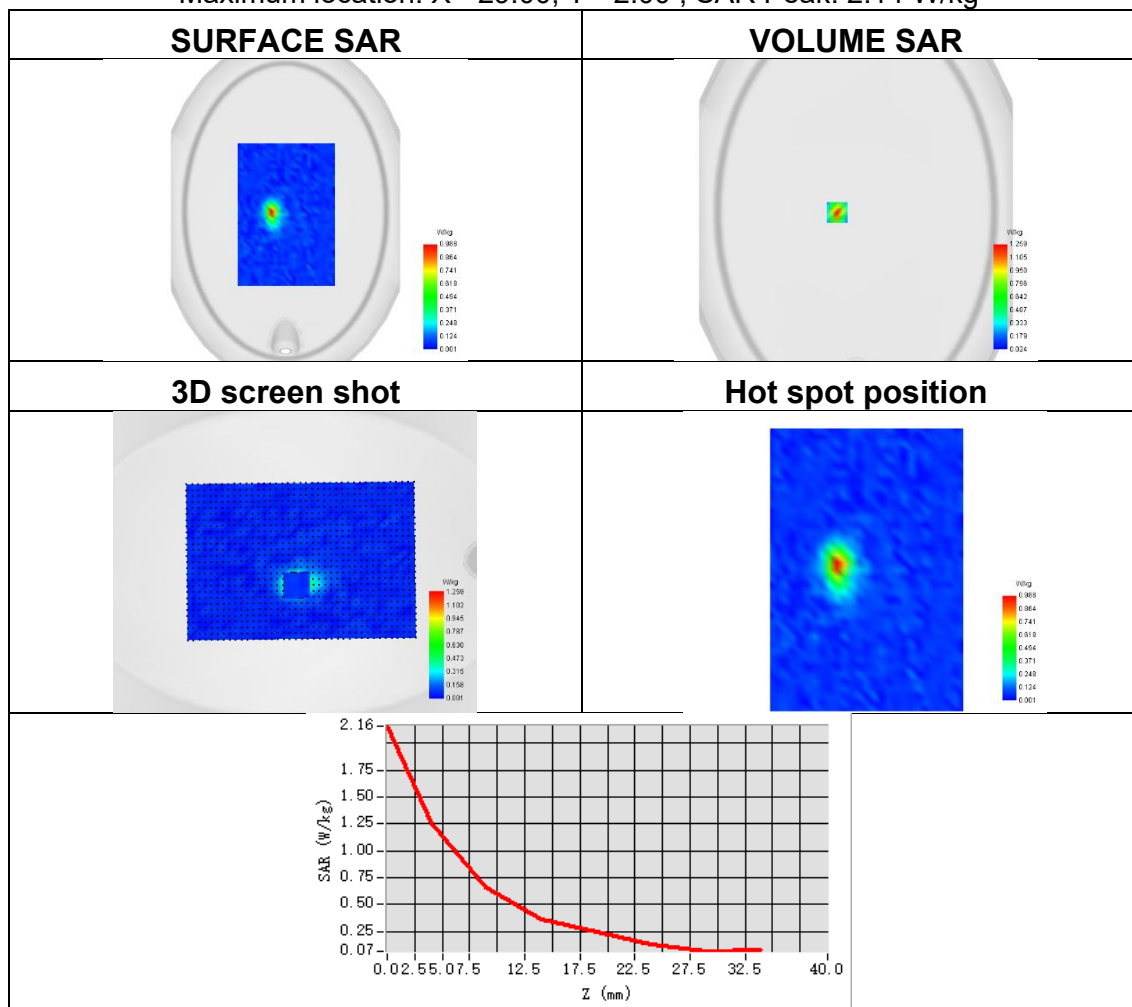
Maximum location: X=-21.00, Y=-29.00 ; SAR Peak: 1.51 W/kg



Plot 13:

Test Date	2025-10-31
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.556
SAR 1g (W/Kg)	1.078
ConvF	2.37
Relative permittivity	40.29
Conductivity (S/m)	1.95

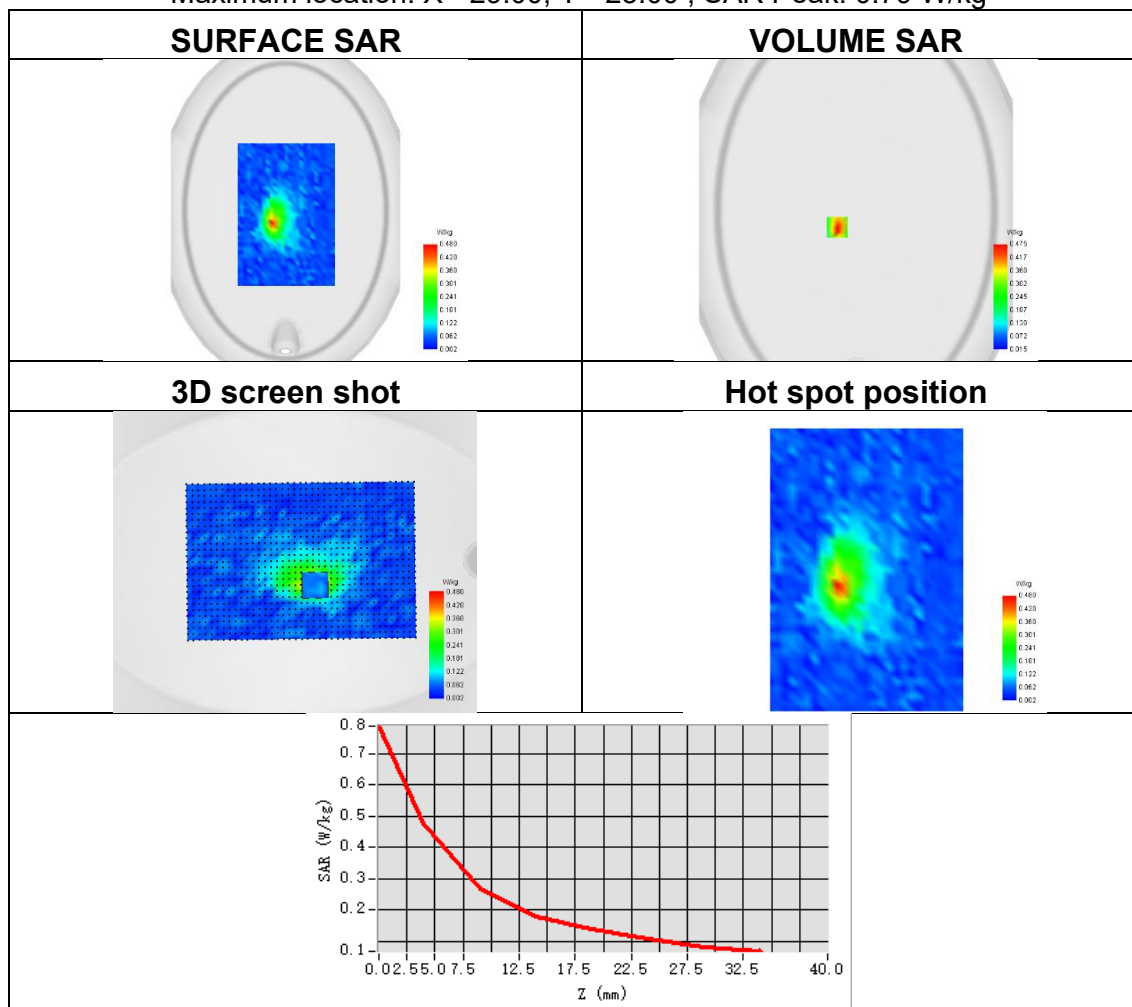
Maximum location: X=-29.00, Y=-2.00 ; SAR Peak: 2.14 W/kg



Plot 14:

Test Date	2025-11-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 12
Signal	LTE FDD
Frequency	704
SAR 10g (W/Kg)	0.261
SAR 1g (W/Kg)	0.465
ConvF	1.67
Relative permittivity	42.29
Conductivity (S/m)	0.88

Maximum location: X=-29.00, Y=-25.00 ; SAR Peak: 0.79 W/kg

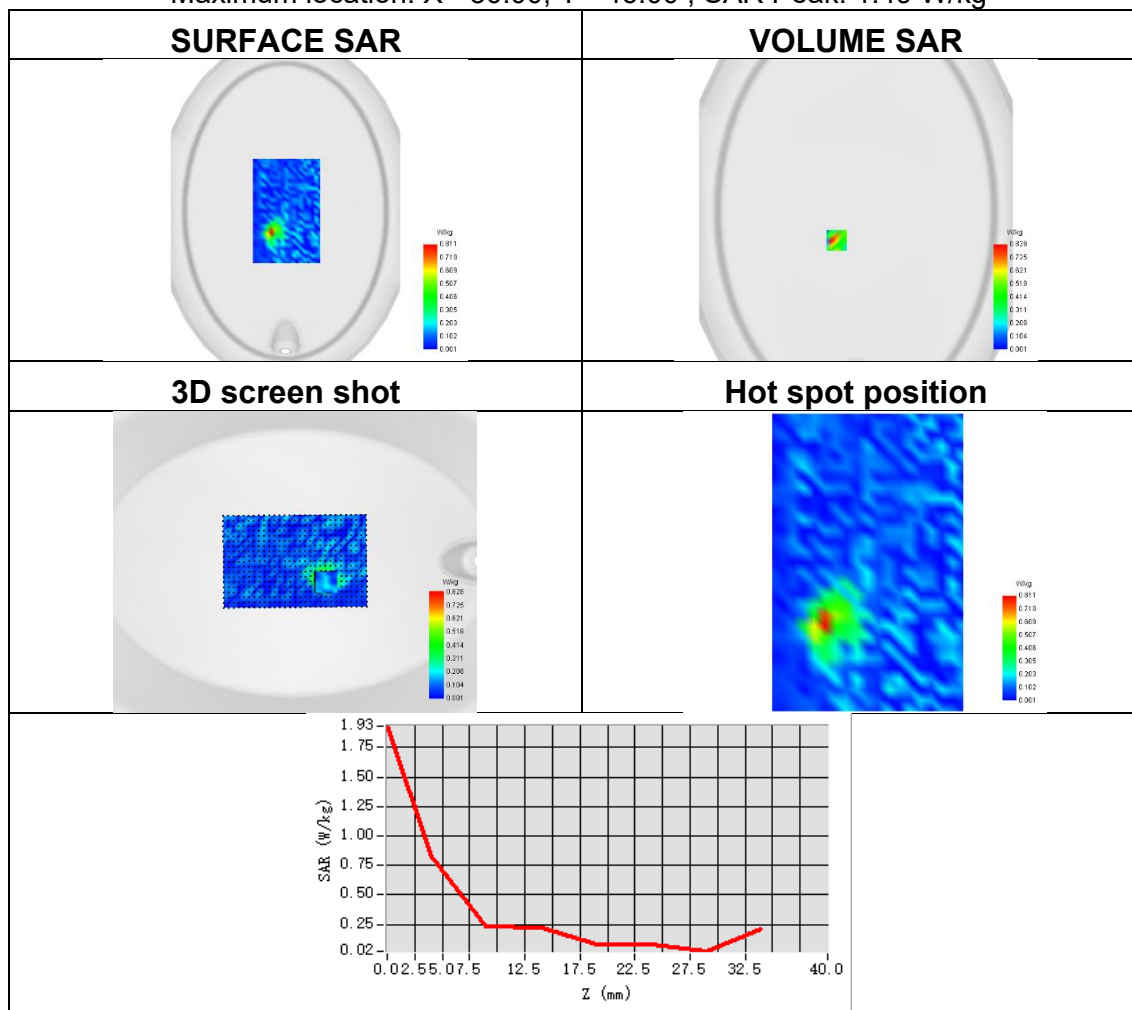




Plot 15:

Test Date	2025-11-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 25
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.365
SAR 1g (W/Kg)	0.812
ConvF	2.20
Relative permittivity	41.24
Conductivity (S/m)	1.39

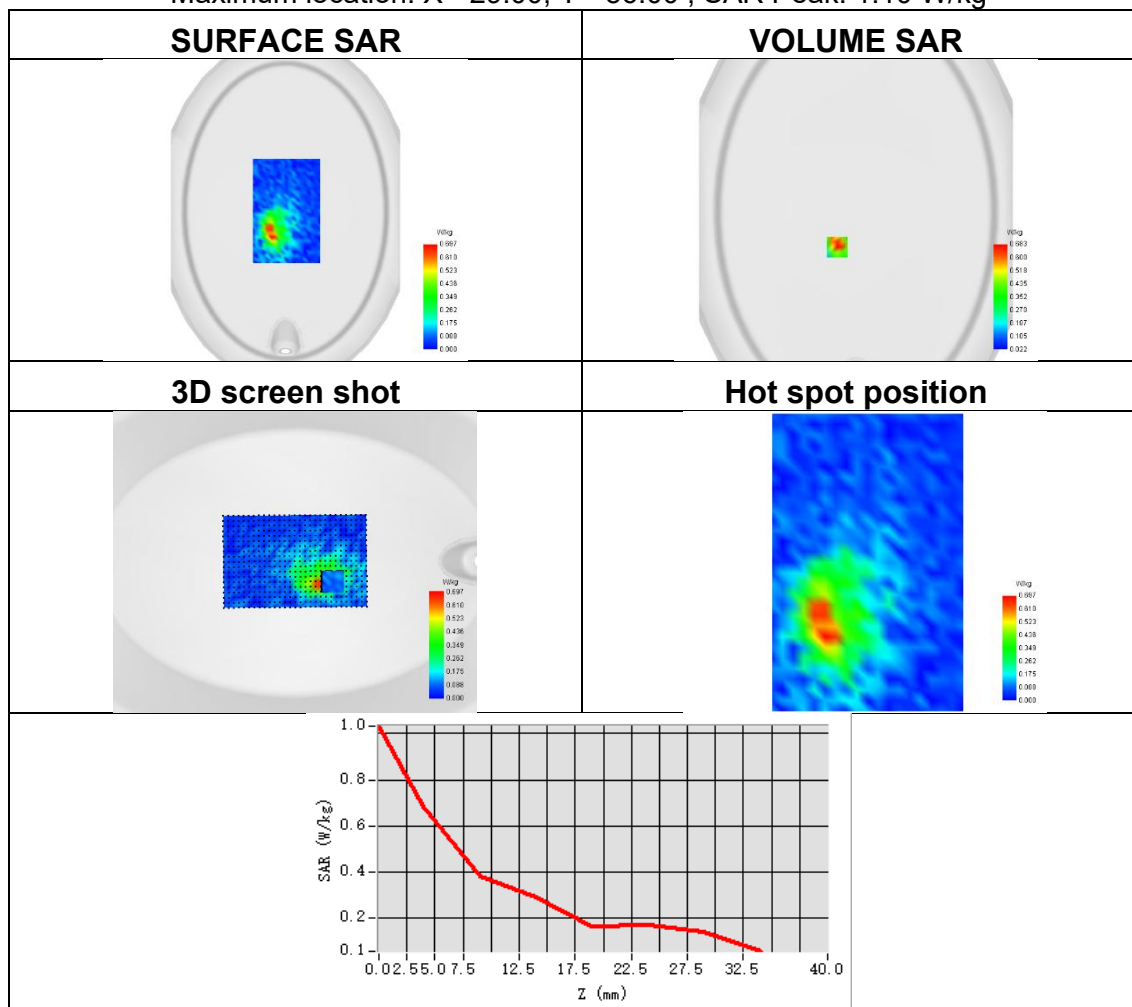
Maximum location: X=-30.00, Y=-46.00 ; SAR Peak: 1.49 W/kg



Plot 16:

Test Date	2025-11-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 26
Signal	LTE FDD
Frequency	841.5
SAR 10g (W/Kg)	0.368
SAR 1g (W/Kg)	0.653
ConvF	1.72
Relative permittivity	42.42
Conductivity (S/m)	0.95

Maximum location: X=-29.00, Y=-56.00 ; SAR Peak: 1.10 W/kg

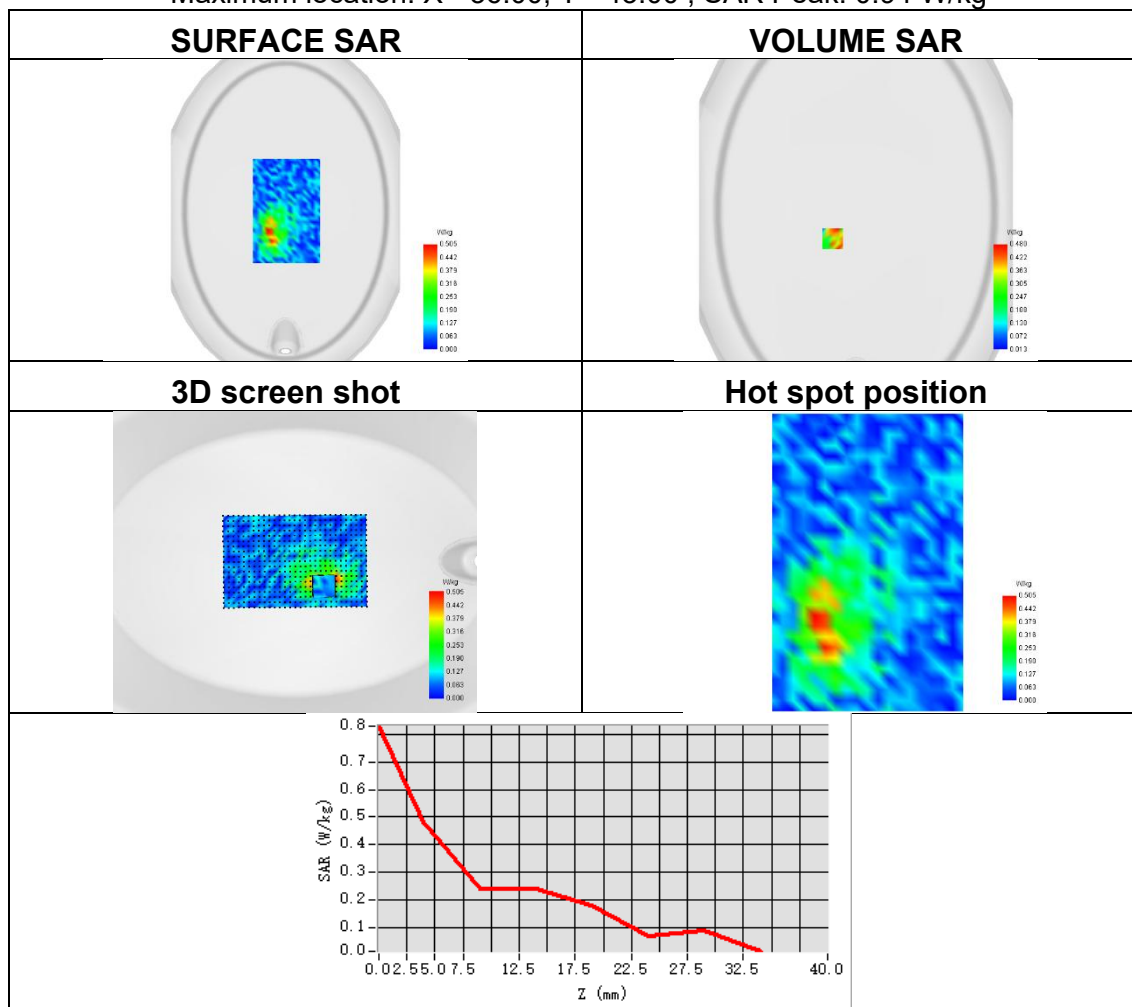




Plot 17:

Test Date	2025-10-31
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 38
Signal	LTE TDD
Frequency	2580
SAR 10g (W/Kg)	0.253
SAR 1g (W/Kg)	0.472
ConvF	2.37
Relative permittivity	40.29
Conductivity (S/m)	1.95

Maximum location: X=-36.00, Y=-43.00 ; SAR Peak: 0.94 W/kg

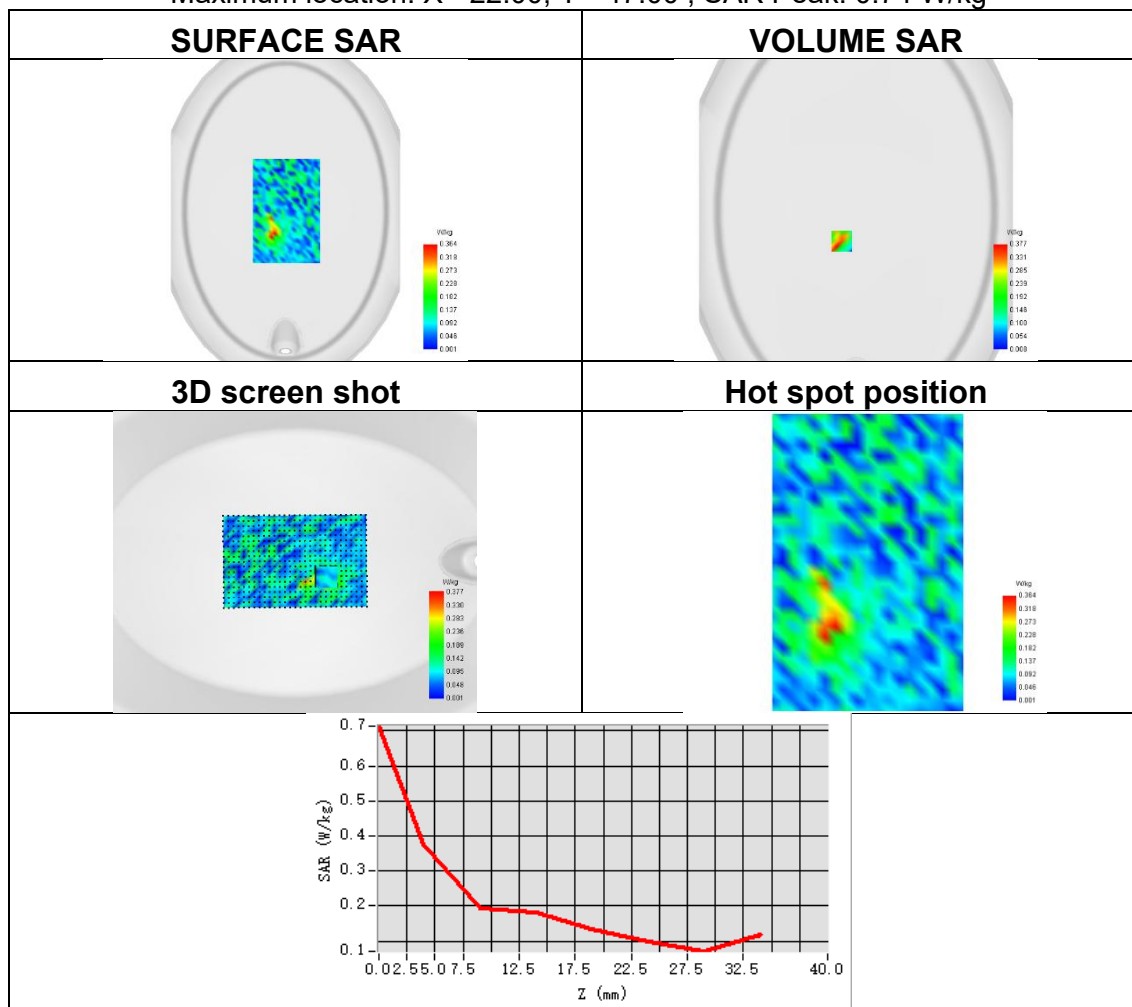




Plot 18:

Test Date	2025-11-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 40
Signal	LTE TDD
Frequency	2350
SAR 10g (W/Kg)	0.168
SAR 1g (W/Kg)	0.366
ConvF	2.33
Relative permittivity	40.02
Conductivity (S/m)	1.78

Maximum location: X=-22.00, Y=-47.00 ; SAR Peak: 0.74 W/kg

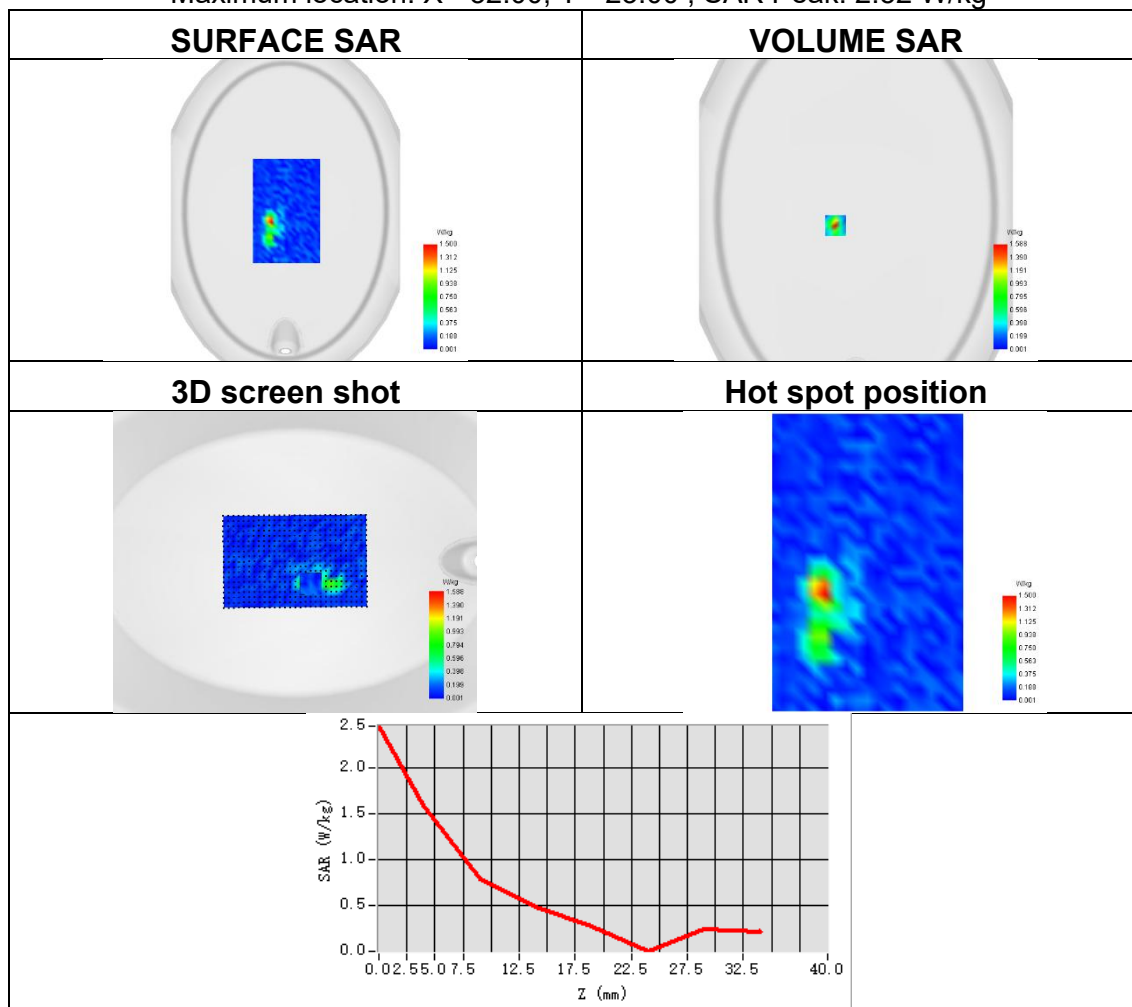




Plot 19:

Test Date	2025-10-31
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 41
Signal	LTE TDD
Frequency	2506
SAR 10g (W/Kg)	0.555
SAR 1g (W/Kg)	1.096
ConvF	2.37
Relative permittivity	40.29
Conductivity (S/m)	1.95

Maximum location: X=-32.00, Y=-23.00 ; SAR Peak: 2.52 W/kg

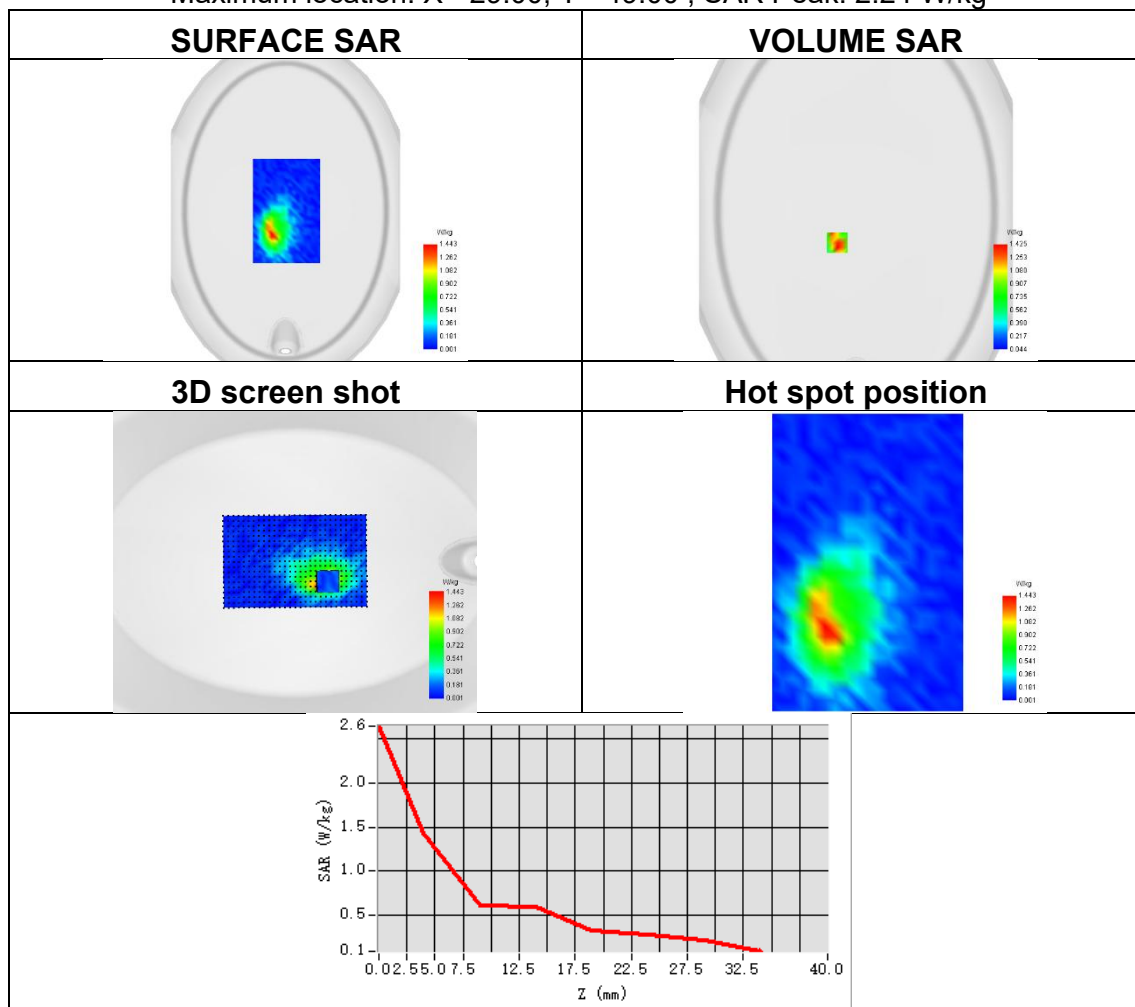




Plot 20:

Test Date	2025-11-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 66
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.776
SAR 1g (W/Kg)	1.171
ConvF	1.92
Relative permittivity	40.98
Conductivity (S/m)	1.37

Maximum location: X=-29.00, Y=-49.00 ; SAR Peak: 2.24 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※