



DC_5A_n41A	30	80	518598	217@0	CP_QPSK	20.63	PASS
DC_5A_n41A	30	80	518598	109@54	CP_QPSK	21.59	PASS
DC_5A_n41A	30	80	518598	1@1	CP_QPSK	21.03	PASS
DC_5A_n41A	30	80	518598	1@215	CP_QPSK	21.19	PASS
DC_5A_n41A	30	80	518598	217@0	CP_16QAM	19.96	PASS
DC_5A_n41A	30	80	518598	109@54	CP_16QAM	21.12	PASS
DC_5A_n41A	30	80	518598	1@1	CP_16QAM	20.28	PASS
DC_5A_n41A	30	80	518598	1@215	CP_16QAM	20.5	PASS
DC_5A_n41A	30	80	518598	217@0	CP_64QAM	19.42	PASS
DC_5A_n41A	30	80	518598	109@54	CP_64QAM	19.62	PASS
DC_5A_n41A	30	80	518598	1@1	CP_64QAM	18.84	PASS
DC_5A_n41A	30	80	518598	1@215	CP_64QAM	19.07	PASS
DC_5A_n41A	30	80	518598	217@0	CP_256QAM	16.4	PASS
DC_5A_n41A	30	80	518598	109@54	CP_256QAM	16.6	PASS
DC_5A_n41A	30	80	518598	1@1	CP_256QAM	15.9	PASS
DC_5A_n41A	30	80	518598	1@215	CP_256QAM	16.14	PASS
DC_5A_n41A	30	80	529998	216@0	DFT_BPSK	22.65	PASS
DC_5A_n41A	30	80	529998	108@54	DFT_BPSK	23.21	PASS
DC_5A_n41A	30	80	529998	1@1	DFT_BPSK	22.49	PASS
DC_5A_n41A	30	80	529998	1@215	DFT_BPSK	22.83	PASS
DC_5A_n41A	30	80	529998	216@0	DFT_QPSK	22.13	PASS
DC_5A_n41A	30	80	529998	108@54	DFT_QPSK	23.2	PASS
DC_5A_n41A	30	80	529998	1@1	DFT_QPSK	22.54	PASS
DC_5A_n41A	30	80	529998	1@215	DFT_QPSK	22.88	PASS
DC_5A_n41A	30	80	529998	216@0	DFT_16QAM	21.12	PASS
DC_5A_n41A	30	80	529998	108@54	DFT_16QAM	22.2	PASS
DC_5A_n41A	30	80	529998	1@1	DFT_16QAM	21.51	PASS
DC_5A_n41A	30	80	529998	1@215	DFT_16QAM	21.83	PASS
DC_5A_n41A	30	80	529998	216@0	DFT_64QAM	20.64	PASS
DC_5A_n41A	30	80	529998	108@54	DFT_64QAM	20.73	PASS
DC_5A_n41A	30	80	529998	1@1	DFT_64QAM	20.11	PASS
DC_5A_n41A	30	80	529998	1@215	DFT_64QAM	20.44	PASS
DC_5A_n41A	30	80	529998	216@0	DFT_256QAM	18.23	PASS
DC_5A_n41A	30	80	529998	108@54	DFT_256QAM	18.11	PASS
DC_5A_n41A	30	80	529998	1@1	DFT_256QAM	18.24	PASS
DC_5A_n41A	30	80	529998	1@215	DFT_256QAM	18.13	PASS
DC_5A_n41A	30	80	529998	217@0	CP_QPSK	20.45	PASS
DC_5A_n41A	30	80	529998	109@54	CP_QPSK	21.68	PASS
DC_5A_n41A	30	80	529998	1@1	CP_QPSK	21.12	PASS
DC_5A_n41A	30	80	529998	1@215	CP_QPSK	21.4	PASS
DC_5A_n41A	30	80	529998	217@0	CP_16QAM	20.08	PASS
DC_5A_n41A	30	80	529998	109@54	CP_16QAM	21.19	PASS
DC_5A_n41A	30	80	529998	1@1	CP_16QAM	20.45	PASS
DC_5A_n41A	30	80	529998	1@215	CP_16QAM	20.77	PASS
DC_5A_n41A	30	80	529998	217@0	CP_64QAM	19.58	PASS
DC_5A_n41A	30	80	529998	109@54	CP_64QAM	19.7	PASS
DC_5A_n41A	30	80	529998	1@1	CP_64QAM	19	PASS
DC_5A_n41A	30	80	529998	1@215	CP_64QAM	19.33	PASS



DC_5A_n41A	30	80	529998	217@0	CP_256QAM	16.54	PASS
DC_5A_n41A	30	80	529998	109@54	CP_256QAM	16.66	PASS
DC_5A_n41A	30	80	529998	1@1	CP_256QAM	16.07	PASS
DC_5A_n41A	30	80	529998	1@215	CP_256QAM	16.39	PASS
DC_5A_n41A	30	90	508200	243@0	DFT_BPSK	22.36	PASS
DC_5A_n41A	30	90	508200	120@60	DFT_BPSK	23.03	PASS
DC_5A_n41A	30	90	508200	1@1	DFT_BPSK	22.34	PASS
DC_5A_n41A	30	90	508200	1@243	DFT_BPSK	22.38	PASS
DC_5A_n41A	30	90	508200	243@0	DFT_QPSK	21.88	PASS
DC_5A_n41A	30	90	508200	120@60	DFT_QPSK	23.04	PASS
DC_5A_n41A	30	90	508200	1@1	DFT_QPSK	22.37	PASS
DC_5A_n41A	30	90	508200	1@243	DFT_QPSK	22.38	PASS
DC_5A_n41A	30	90	508200	243@0	DFT_16QAM	20.9	PASS
DC_5A_n41A	30	90	508200	120@60	DFT_16QAM	22.04	PASS
DC_5A_n41A	30	90	508200	1@1	DFT_16QAM	21.35	PASS
DC_5A_n41A	30	90	508200	1@243	DFT_16QAM	21.38	PASS
DC_5A_n41A	30	90	508200	243@0	DFT_64QAM	20.39	PASS
DC_5A_n41A	30	90	508200	120@60	DFT_64QAM	20.52	PASS
DC_5A_n41A	30	90	508200	1@1	DFT_64QAM	19.95	PASS
DC_5A_n41A	30	90	508200	1@243	DFT_64QAM	19.96	PASS
DC_5A_n41A	30	90	508200	243@0	DFT_256QAM	18.4	PASS
DC_5A_n41A	30	90	508200	120@60	DFT_256QAM	18.51	PASS
DC_5A_n41A	30	90	508200	1@1	DFT_256QAM	17.86	PASS
DC_5A_n41A	30	90	508200	1@243	DFT_256QAM	17.89	PASS
DC_5A_n41A	30	90	508200	245@0	CP_QPSK	19.85	PASS
DC_5A_n41A	30	90	508200	123@61	CP_QPSK	21.51	PASS
DC_5A_n41A	30	90	508200	1@1	CP_QPSK	21.01	PASS
DC_5A_n41A	30	90	508200	1@243	CP_QPSK	20.99	PASS
DC_5A_n41A	30	90	508200	245@0	CP_16QAM	19.87	PASS
DC_5A_n41A	30	90	508200	123@61	CP_16QAM	21.02	PASS
DC_5A_n41A	30	90	508200	1@1	CP_16QAM	20.32	PASS
DC_5A_n41A	30	90	508200	1@243	CP_16QAM	20.31	PASS
DC_5A_n41A	30	90	508200	245@0	CP_64QAM	19.35	PASS
DC_5A_n41A	30	90	508200	123@61	CP_64QAM	19.53	PASS
DC_5A_n41A	30	90	508200	1@1	CP_64QAM	18.78	PASS
DC_5A_n41A	30	90	508200	1@243	CP_64QAM	18.84	PASS
DC_5A_n41A	30	90	508200	245@0	CP_256QAM	16.35	PASS
DC_5A_n41A	30	90	508200	123@61	CP_256QAM	16.5	PASS
DC_5A_n41A	30	90	508200	1@1	CP_256QAM	15.84	PASS
DC_5A_n41A	30	90	508200	1@243	CP_256QAM	15.84	PASS
DC_5A_n41A	30	90	518598	243@0	DFT_BPSK	22.64	PASS
DC_5A_n41A	30	90	518598	120@60	DFT_BPSK	23.13	PASS
DC_5A_n41A	30	90	518598	1@1	DFT_BPSK	23.15	PASS
DC_5A_n41A	30	90	518598	1@243	DFT_BPSK	22.48	PASS
DC_5A_n41A	30	90	518598	243@0	DFT_QPSK	22.46	PASS
DC_5A_n41A	30	90	518598	120@60	DFT_QPSK	23.1	PASS
DC_5A_n41A	30	90	518598	1@1	DFT_QPSK	22.22	PASS
DC_5A_n41A	30	90	518598	1@243	DFT_QPSK	22.45	PASS



DC_5A_n41A	30	90	518598	243@0	DFT_16QAM	20.91	PASS
DC_5A_n41A	30	90	518598	120@60	DFT_16QAM	22.1	PASS
DC_5A_n41A	30	90	518598	1@1	DFT_16QAM	21.24	PASS
DC_5A_n41A	30	90	518598	1@243	DFT_16QAM	21.5	PASS
DC_5A_n41A	30	90	518598	243@0	DFT_64QAM	20.42	PASS
DC_5A_n41A	30	90	518598	120@60	DFT_64QAM	20.61	PASS
DC_5A_n41A	30	90	518598	1@1	DFT_64QAM	19.77	PASS
DC_5A_n41A	30	90	518598	1@243	DFT_64QAM	20.06	PASS
DC_5A_n41A	30	90	518598	243@0	DFT_256QAM	18.13	PASS
DC_5A_n41A	30	90	518598	120@60	DFT_256QAM	18.44	PASS
DC_5A_n41A	30	90	518598	1@1	DFT_256QAM	18.26	PASS
DC_5A_n41A	30	90	518598	1@243	DFT_256QAM	18.06	PASS
DC_5A_n41A	30	90	518598	245@0	CP_QPSK	20.98	PASS
DC_5A_n41A	30	90	518598	123@61	CP_QPSK	21.59	PASS
DC_5A_n41A	30	90	518598	1@1	CP_QPSK	20.88	PASS
DC_5A_n41A	30	90	518598	1@243	CP_QPSK	21.16	PASS
DC_5A_n41A	30	90	518598	245@0	CP_16QAM	19.89	PASS
DC_5A_n41A	30	90	518598	123@61	CP_16QAM	21.08	PASS
DC_5A_n41A	30	90	518598	1@1	CP_16QAM	20.16	PASS
DC_5A_n41A	30	90	518598	1@243	CP_16QAM	20.43	PASS
DC_5A_n41A	30	90	518598	245@0	CP_64QAM	19.37	PASS
DC_5A_n41A	30	90	518598	123@61	CP_64QAM	19.57	PASS
DC_5A_n41A	30	90	518598	1@1	CP_64QAM	18.65	PASS
DC_5A_n41A	30	90	518598	1@243	CP_64QAM	18.93	PASS
DC_5A_n41A	30	90	518598	245@0	CP_256QAM	16.37	PASS
DC_5A_n41A	30	90	518598	123@61	CP_256QAM	16.56	PASS
DC_5A_n41A	30	90	518598	1@1	CP_256QAM	15.75	PASS
DC_5A_n41A	30	90	518598	1@243	CP_256QAM	16	PASS
DC_5A_n41A	30	90	528996	243@0	DFT_BPSK	22.53	PASS
DC_5A_n41A	30	90	528996	120@60	DFT_BPSK	23.17	PASS
DC_5A_n41A	30	90	528996	1@1	DFT_BPSK	22.28	PASS
DC_5A_n41A	30	90	528996	1@243	DFT_BPSK	22.63	PASS
DC_5A_n41A	30	90	528996	243@0	DFT_QPSK	22.05	PASS
DC_5A_n41A	30	90	528996	120@60	DFT_QPSK	23.1	PASS
DC_5A_n41A	30	90	528996	1@1	DFT_QPSK	22.28	PASS
DC_5A_n41A	30	90	528996	1@243	DFT_QPSK	22.61	PASS
DC_5A_n41A	30	90	528996	243@0	DFT_16QAM	21.03	PASS
DC_5A_n41A	30	90	528996	120@60	DFT_16QAM	22.16	PASS
DC_5A_n41A	30	90	528996	1@1	DFT_16QAM	21.31	PASS
DC_5A_n41A	30	90	528996	1@243	DFT_16QAM	21.65	PASS
DC_5A_n41A	30	90	528996	243@0	DFT_64QAM	20.55	PASS
DC_5A_n41A	30	90	528996	120@60	DFT_64QAM	20.66	PASS
DC_5A_n41A	30	90	528996	1@1	DFT_64QAM	19.88	PASS
DC_5A_n41A	30	90	528996	1@243	DFT_64QAM	20.24	PASS
DC_5A_n41A	30	90	528996	243@0	DFT_256QAM	18.13	PASS
DC_5A_n41A	30	90	528996	120@60	DFT_256QAM	18.15	PASS
DC_5A_n41A	30	90	528996	1@1	DFT_256QAM	18.11	PASS
DC_5A_n41A	30	90	528996	1@243	DFT_256QAM	18.26	PASS



DC_5A_n41A	30	90	528996	245@0	CP_QPSK	20.64	PASS
DC_5A_n41A	30	90	528996	123@61	CP_QPSK	21.11	PASS
DC_5A_n41A	30	90	528996	1@1	CP_QPSK	21.13	PASS
DC_5A_n41A	30	90	528996	1@243	CP_QPSK	21.64	PASS
DC_5A_n41A	30	90	528996	245@0	CP_16QAM	20.64	PASS
DC_5A_n41A	30	90	528996	123@61	CP_16QAM	21.15	PASS
DC_5A_n41A	30	90	528996	1@1	CP_16QAM	20.11	PASS
DC_5A_n41A	30	90	528996	1@243	CP_16QAM	20.56	PASS
DC_5A_n41A	30	90	528996	245@0	CP_64QAM	19.5	PASS
DC_5A_n41A	30	90	528996	123@61	CP_64QAM	19.62	PASS
DC_5A_n41A	30	90	528996	1@1	CP_64QAM	18.59	PASS
DC_5A_n41A	30	90	528996	1@243	CP_64QAM	19.02	PASS
DC_5A_n41A	30	90	528996	245@0	CP_256QAM	16.49	PASS
DC_5A_n41A	30	90	528996	123@61	CP_256QAM	16.63	PASS
DC_5A_n41A	30	90	528996	1@1	CP_256QAM	15.71	PASS
DC_5A_n41A	30	90	528996	1@243	CP_256QAM	16.16	PASS
DC_5A_n41A	30	100	509202	270@0	DFT_BPSK	22.39	PASS
DC_5A_n41A	30	100	509202	135@67	DFT_BPSK	23	PASS
DC_5A_n41A	30	100	509202	1@1	DFT_BPSK	22.18	PASS
DC_5A_n41A	30	100	509202	1@271	DFT_BPSK	22.23	PASS
DC_5A_n41A	30	100	509202	270@0	DFT_QPSK	21.86	PASS
DC_5A_n41A	30	100	509202	135@67	DFT_QPSK	23	PASS
DC_5A_n41A	30	100	509202	1@1	DFT_QPSK	22.18	PASS
DC_5A_n41A	30	100	509202	1@271	DFT_QPSK	22.23	PASS
DC_5A_n41A	30	100	509202	270@0	DFT_16QAM	20.87	PASS
DC_5A_n41A	30	100	509202	135@67	DFT_16QAM	22.02	PASS
DC_5A_n41A	30	100	509202	1@1	DFT_16QAM	21.03	PASS
DC_5A_n41A	30	100	509202	1@271	DFT_16QAM	21.08	PASS
DC_5A_n41A	30	100	509202	270@0	DFT_64QAM	20.34	PASS
DC_5A_n41A	30	100	509202	135@67	DFT_64QAM	20.49	PASS
DC_5A_n41A	30	100	509202	1@1	DFT_64QAM	19.6	PASS
DC_5A_n41A	30	100	509202	1@271	DFT_64QAM	19.62	PASS
DC_5A_n41A	30	100	509202	270@0	DFT_256QAM	18.33	PASS
DC_5A_n41A	30	100	509202	135@67	DFT_256QAM	18.53	PASS
DC_5A_n41A	30	100	509202	1@1	DFT_256QAM	17.58	PASS
DC_5A_n41A	30	100	509202	1@271	DFT_256QAM	17.64	PASS
DC_5A_n41A	30	100	509202	273@0	CP_QPSK	21.06	PASS
DC_5A_n41A	30	100	509202	137@68	CP_QPSK	21.11	PASS
DC_5A_n41A	30	100	509202	1@1	CP_QPSK	20.59	PASS
DC_5A_n41A	30	100	509202	1@271	CP_QPSK	21.85	PASS
DC_5A_n41A	30	100	509202	273@0	CP_16QAM	20.64	PASS
DC_5A_n41A	30	100	509202	137@68	CP_16QAM	20.99	PASS
DC_5A_n41A	30	100	509202	1@1	CP_16QAM	20.17	PASS
DC_5A_n41A	30	100	509202	1@271	CP_16QAM	20.18	PASS
DC_5A_n41A	30	100	509202	273@0	CP_64QAM	19.35	PASS
DC_5A_n41A	30	100	509202	137@68	CP_64QAM	19.48	PASS
DC_5A_n41A	30	100	509202	1@1	CP_64QAM	18.63	PASS
DC_5A_n41A	30	100	509202	1@271	CP_64QAM	18.71	PASS



DC_5A_n41A	30	100	509202	273@0	CP_256QAM	16.29	PASS
DC_5A_n41A	30	100	509202	137@68	CP_256QAM	16.42	PASS
DC_5A_n41A	30	100	509202	1@1	CP_256QAM	15.71	PASS
DC_5A_n41A	30	100	509202	1@271	CP_256QAM	15.77	PASS
DC_5A_n41A	30	100	518598	270@0	DFT_BPSK	22.56	PASS
DC_5A_n41A	30	100	518598	135@67	DFT_BPSK	23.08	PASS
DC_5A_n41A	30	100	518598	1@1	DFT_BPSK	22.08	PASS
DC_5A_n41A	30	100	518598	1@271	DFT_BPSK	22.38	PASS
DC_5A_n41A	30	100	518598	270@0	DFT_QPSK	21.86	PASS
DC_5A_n41A	30	100	518598	135@67	DFT_QPSK	23.08	PASS
DC_5A_n41A	30	100	518598	1@1	DFT_QPSK	22.06	PASS
DC_5A_n41A	30	100	518598	1@271	DFT_QPSK	22.33	PASS
DC_5A_n41A	30	100	518598	270@0	DFT_16QAM	20.88	PASS
DC_5A_n41A	30	100	518598	135@67	DFT_16QAM	22.1	PASS
DC_5A_n41A	30	100	518598	1@1	DFT_16QAM	21.06	PASS
DC_5A_n41A	30	100	518598	1@271	DFT_16QAM	21.39	PASS
DC_5A_n41A	30	100	518598	270@0	DFT_64QAM	20.35	PASS
DC_5A_n41A	30	100	518598	135@67	DFT_64QAM	20.59	PASS
DC_5A_n41A	30	100	518598	1@1	DFT_64QAM	19.58	PASS
DC_5A_n41A	30	100	518598	1@271	DFT_64QAM	19.9	PASS
DC_5A_n41A	30	100	518598	270@0	DFT_256QAM	18.35	PASS
DC_5A_n41A	30	100	518598	135@67	DFT_256QAM	18.58	PASS
DC_5A_n41A	30	100	518598	1@1	DFT_256QAM	17.6	PASS
DC_5A_n41A	30	100	518598	1@271	DFT_256QAM	17.9	PASS
DC_5A_n41A	30	100	518598	273@0	CP_QPSK	20.56	PASS
DC_5A_n41A	30	100	518598	137@68	CP_QPSK	21.15	PASS
DC_5A_n41A	30	100	518598	1@1	CP_QPSK	20.78	PASS
DC_5A_n41A	30	100	518598	1@271	CP_QPSK	21.5	PASS
DC_5A_n41A	30	100	518598	273@0	CP_16QAM	20.56	PASS
DC_5A_n41A	30	100	518598	137@68	CP_16QAM	21.07	PASS
DC_5A_n41A	30	100	518598	1@1	CP_16QAM	20	PASS
DC_5A_n41A	30	100	518598	1@271	CP_16QAM	20.33	PASS
DC_5A_n41A	30	100	518598	273@0	CP_64QAM	19.33	PASS
DC_5A_n41A	30	100	518598	137@68	CP_64QAM	19.56	PASS
DC_5A_n41A	30	100	518598	1@1	CP_64QAM	18.54	PASS
DC_5A_n41A	30	100	518598	1@271	CP_64QAM	18.86	PASS
DC_5A_n41A	30	100	518598	273@0	CP_256QAM	16.31	PASS
DC_5A_n41A	30	100	518598	137@68	CP_256QAM	16.53	PASS
DC_5A_n41A	30	100	518598	1@1	CP_256QAM	15.6	PASS
DC_5A_n41A	30	100	518598	1@271	CP_256QAM	15.91	PASS
DC_5A_n41A	30	100	528000	270@0	DFT_BPSK	22.53	PASS
DC_5A_n41A	30	100	528000	135@67	DFT_BPSK	23.11	PASS
DC_5A_n41A	30	100	528000	1@1	DFT_BPSK	22.15	PASS
DC_5A_n41A	30	100	528000	1@271	DFT_BPSK	22.52	PASS
DC_5A_n41A	30	100	528000	270@0	DFT_QPSK	22	PASS
DC_5A_n41A	30	100	528000	135@67	DFT_QPSK	23.16	PASS
DC_5A_n41A	30	100	528000	1@1	DFT_QPSK	22.14	PASS
DC_5A_n41A	30	100	528000	1@271	DFT_QPSK	22.5	PASS



DC_5A_n41A	30	100	528000	270@0	DFT_16QAM	20.99	PASS
DC_5A_n41A	30	100	528000	135@67	DFT_16QAM	22.16	PASS
DC_5A_n41A	30	100	528000	1@1	DFT_16QAM	21.16	PASS
DC_5A_n41A	30	100	528000	1@271	DFT_16QAM	21.52	PASS
DC_5A_n41A	30	100	528000	270@0	DFT_64QAM	20.48	PASS
DC_5A_n41A	30	100	528000	135@67	DFT_64QAM	20.62	PASS
DC_5A_n41A	30	100	528000	1@1	DFT_64QAM	19.69	PASS
DC_5A_n41A	30	100	528000	1@271	DFT_64QAM	20.07	PASS
DC_5A_n41A	30	100	528000	270@0	DFT_256QAM	18.49	PASS
DC_5A_n41A	30	100	528000	135@67	DFT_256QAM	18.63	PASS
DC_5A_n41A	30	100	528000	1@1	DFT_256QAM	17.66	PASS
DC_5A_n41A	30	100	528000	1@271	DFT_256QAM	18.04	PASS
DC_5A_n41A	30	100	528000	273@0	CP_QPSK	19.95	PASS
DC_5A_n41A	30	100	528000	137@68	CP_QPSK	21.59	PASS
DC_5A_n41A	30	100	528000	1@1	CP_QPSK	20.74	PASS
DC_5A_n41A	30	100	528000	1@271	CP_QPSK	21.17	PASS
DC_5A_n41A	30	100	528000	273@0	CP_16QAM	19.94	PASS
DC_5A_n41A	30	100	528000	137@68	CP_16QAM	21.15	PASS
DC_5A_n41A	30	100	528000	1@1	CP_16QAM	20.05	PASS
DC_5A_n41A	30	100	528000	1@271	CP_16QAM	20.48	PASS
DC_5A_n41A	30	100	528000	273@0	CP_64QAM	19.48	PASS
DC_5A_n41A	30	100	528000	137@68	CP_64QAM	19.62	PASS
DC_5A_n41A	30	100	528000	1@1	CP_64QAM	18.57	PASS
DC_5A_n41A	30	100	528000	1@271	CP_64QAM	18.99	PASS
DC_5A_n41A	30	100	528000	273@0	CP_256QAM	16.45	PASS
DC_5A_n41A	30	100	528000	137@68	CP_256QAM	16.58	PASS
DC_5A_n41A	30	100	528000	1@1	CP_256QAM	15.65	PASS
DC_5A_n41A	30	100	528000	1@271	CP_256QAM	16.07	PASS



10.2 Tune up Power

Mode	GSM850	GSM1900
GSM	33±1dBm	29.5±1dBm
GPRS (1 Slot)	33±1dBm	29.5±1dBm
GPRS (2 Slot)	32.5±1dBm	29.5±1dBm
GPRS (3 Slot)	31±1dBm	28±1dBm
GPRS (4 Slot)	30±1dBm	26.5±1dBm

Mode	WCDMA Band II	WCDMA Band V	WCDMA Band IV
RMC	23±1dBm	23±1dBm	23±1dBm
HSDPA Subtest-1	22±1dBm	22±1dBm	22±1dBm
HSDPA Subtest-2	21.5±1dBm	21.5±1dBm	21.5±1dBm
HSDPA Subtest-3	20.5±1dBm	20.5±1dBm	20.5±1dBm
HSDPA Subtest-4	20.5±1dBm	20.5±1dBm	20.5±1dBm
HSUPA Subtest-1	22±1dBm	21.5±1dBm	21.5±1dBm
HSUPA Subtest-2	22±1dBm	22±1dBm	21.5±1dBm
HSUPA Subtest-3	20.5±1dBm	21±1dBm	21±1dBm
HSUPA Subtest-4	22±1dBm	22±1dBm	22±1dBm
HSUPA Subtest-5	21.5±1dBm	21±1dBm	21±1dBm

Mode	CDMA
CDMA BC0	23±1dBm
CDMA BC1	22.5±1dBm

Mode	NFC
NFC	-44±1dBm



BW[MHz]	RB Size	Mode	Band 2	Band 4	Band 5	Band 7	Band 12
1.4	1	QPSK	23.5±1dBm	23.5±1dBm	24±1dBm	N/A	24±1dBm
1.4	3		22.5±1dBm	23.5±1dBm	22.5±1dBm	N/A	24±1dBm
1.4	6		22.5±1dBm	22.5±1dBm	22.5±1dBm	N/A	23±1dBm
1.4	1	16- QAM	23±1dBm	22.5±1dBm	23±1dBm	N/A	23±1dBm
1.4	3		22.5±1dBm	22.5±1dBm	21.5±1dBm	N/A	23±1dBm
1.4	6		21.5±1dBm	21.5±1dBm	21.5±1dBm	N/A	22±1dBm
3	1	QPSK	23.5±1dBm	23.5±1dBm	24±1dBm	N/A	24±1dBm
3	8		22.5±1dBm	22.5±1dBm	22.5±1dBm	N/A	23±1dBm
3	15		22.5±1dBm	22.5±1dBm	23±1dBm	N/A	23±1dBm
3	1	16- QAM	23±1dBm	23±1dBm	23±1dBm	N/A	23.5±1dBm
3	8		21.5±1dBm	21.5±1dBm	21.5±1dBm	N/A	22±1dBm
3	15		21.5±1dBm	21.5±1dBm	21.5±1dBm	N/A	22±1dBm
5	1	QPSK	23.5±1dBm	23.5±1dBm	24±1dBm	24±1dBm	24±1dBm
5	12		22.5±1dBm	22.5±1dBm	22.5±1dBm	23±1dBm	23±1dBm
5	25		2.5±1dBm	22.5±1dBm	22.5±1dBm	23±1dBm	23±1dBm
5	1	16- QAM	23±1dBm	23±1dBm	23±1dBm	23.5±1dBm	23±1dBm
5	12		21.5±1dBm	21.5±1dBm	21.5±1dBm	22±1dBm	22±1dBm
5	25		21.5±1dBm	21.5±1dBm	21.5±1dBm	22±1dBm	22±1dBm
10	1	QPSK	23.5±1dBm	23.5±1dBm	24±1dBm	24±1dBm	24±1dBm
10	25		22.5±1dBm	22.5±1dBm	24±1dBm	23±1dBm	23±1dBm
10	50		22.5±1dBm	22.5±1dBm	23±1dBm	23±1dBm	23±1dBm
10	1	16- QAM	23±1dBm	23±1dBm	23±1dBm	23.5±1dBm	23.5±1dBm
10	25		21.5±1dBm	21.5±1dBm	23±1dBm	22±1dBm	22±1dBm
10	50		21.5±1dBm	21.5±1dBm	22±1dBm	22±1dBm	22±1dBm
15	1	QPSK	23.5±1dBm	23.5±1dBm	N/A	24±1dBm	N/A
15	36		22.5±1dBm	22.5±1dBm	N/A	23±1dBm	N/A
15	75		22.5±1dBm	22.5±1dBm	N/A	23±1dBm	N/A
15	1	16- QAM	23±1dBm	23±1dBm	N/A	23.5±1dBm	N/A
15	36		21.5±1dBm	21.5±1dBm	N/A	22±1dBm	N/A
15	75		21.5±1dBm	21.5±1dBm	N/A	22±1dBm	N/A
20	1	QPSK	24±1dBm	23.5±1dBm	N/A	24.5±1dBm	N/A
20	50		22.5±1dBm	22.5±1dBm	N/A	23±1dBm	N/A
20	100		22.5±1dBm	22.5±1dBm	N/A	23±1dBm	N/A
20	1	16- QAM	23±1dBm	23±1dBm	N/A	23.5±1dBm	N/A
20	50		21.5±1dBm	21.5±1dBm	N/A	22.5±1dBm	N/A
20	100		21.5±1dBm	21.5±1dBm	N/A	22±1dBm	N/A



BW[MHz]	RB Size	Mode	Band 13	Band 17	Band 25	Band 26	Band 26
1.4	1	QPSK	N/A	N/A	23.5±1dBm	24±1dBm	24±1dBm
1.4	3		N/A	N/A	23.5±1dBm	24±1dBm	24±1dBm
1.4	6		N/A	N/A	22.5±1dBm	23±1dBm	23±1dBm
1.4	1	16- QAM	N/A	N/A	23±1dBm	23±1dBm	23±1dBm
1.4	3		N/A	N/A	22.5±1dBm	23±1dBm	23±1dBm
1.4	6		N/A	N/A	21.5±1dBm	22±1dBm	22±1dBm
3	1	QPSK	N/A	N/A	23.5±1dBm	24±1dBm	24±1dBm
3	8		N/A	N/A	22.5±1dBm	23±1dBm	22.5±1dBm
3	15		N/A	N/A	22.5±1dBm	23±1dBm	23±1dBm
3	1	16- QAM	N/A	N/A	23±1dBm	23.5±1dBm	23±1dBm
3	8		N/A	N/A	21.5±1dBm	22±1dBm	22±1dBm
3	15		N/A	N/A	21.5±1dBm	22±1dBm	22±1dBm
5	1	QPSK	24±1dBm	24±1dBm	23.5±1dBm	24±1dBm	24±1dBm
5	12		22.5±1dBm	23±1dBm	22.5±1dBm	23±1dBm	23±1dBm
5	25		22.5±1dBm	23±1dBm	22.5±1dBm	23±1dBm	23±1dBm
5	1	16- QAM	23.5±1dBm	23.5±1dBm	23±1dBm	23.5±1dBm	23.5±1dBm
5	12		21.5±1dBm	22±1dBm	21.5±1dBm	22±1dBm	21.5±1dBm
5	25		21.5±1dBm	22±1dBm	21.5±1dBm	22±1dBm	22±1dBm
10	1	QPSK	24±1dBm	24±1dBm	24±1dBm	24±1dBm	24±1dBm
10	25		22.5±1dBm	23±1dBm	23±1dBm	23±1dBm	23±1dBm
10	50		23±1dBm	23±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
10	1	16- QAM	23±1dBm	23.5±1dBm	23±1dBm	23.5±1dBm	23.5±1dBm
10	25		21.5±1dBm	22±1dBm	22±1dBm	22±1dBm	21.5±1dBm
10	50		21.5±1dBm	22±1dBm	21.5±1dBm	21.5±1dBm	21.5±1dBm
15	1	QPSK	N/A	N/A	23.5±1dBm	N/A	24±1dBm
15	36		N/A	N/A	22.5±1dBm	N/A	23±1dBm
15	75		N/A	N/A	22.5±1dBm	N/A	22.5±1dBm
15	1	16- QAM	N/A	N/A	23±1dBm	N/A	23±1dBm
15	36		N/A	N/A	21.5±1dBm	N/A	21.5±1dBm
15	75		N/A	N/A	21.5±1dBm	N/A	21.5±1dBm
20	1	QPSK	N/A	N/A	23.5±1dBm	N/A	N/A
20	50		N/A	N/A	22.5±1dBm	N/A	N/A
20	100		N/A	N/A	22.5±1dBm	N/A	N/A
20	1	16- QAM	N/A	N/A	23±1dBm	N/A	N/A
20	50		N/A	N/A	21.5±1dBm	N/A	N/A
20	100		N/A	N/A	21.5±1dBm	N/A	N/A



BW[MHz]	RB Size	Mode	Band 38	Band 40 (2305-2315)	Band 40 (2350-2360)	Band 41	Band 66
1.4	1	QPSK	N/A	N/A	N/A	N/A	23±1dBm
1.4	3		N/A	N/A	N/A	N/A	23±1dBm
1.4	6		N/A	N/A	N/A	N/A	22±1dBm
1.4	1	16- QAM	N/A	N/A	N/A	N/A	22.5±1dBm
1.4	3		N/A	N/A	N/A	N/A	22.5±1dBm
1.4	6		N/A	N/A	N/A	N/A	21.5±1dBm
3	1	QPSK	N/A	N/A	N/A	N/A	23±1dBm
3	8		N/A	N/A	N/A	N/A	22±1dBm
3	15		N/A	N/A	N/A	N/A	22±1dBm
3	1	16- QAM	N/A	N/A	N/A	N/A	22.5±1dBm
3	8		N/A	N/A	N/A	N/A	21±1dBm
3	15		N/A	N/A	N/A	N/A	21±1dBm
5	1	QPSK	24±1dBm	12±1dBm	12±1dBm	23.5±1dBm	22.5±1dBm
5	12		23±1dBm	11±1dBm	11±1dBm	23.5±1dBm	0±1dBm
5	25		23±1dBm	11±1dBm	11±1dBm	23.5±1dBm	20±1dBm
5	1	16- QAM	23.5±1dBm	11.5±1dBm	11.5±1dBm	24±1dBm	20±1dBm
5	12		21.5±1dBm	10±1dBm	10±1dBm	23.5±1dBm	20.5±1dBm
5	25		21.5±1dBm	10±1dBm	10±1dBm	23.5±1dBm	20±1dBm
10	1	QPSK	24±1dBm	12±1dBm	12±1dBm	23.5±1dBm	22.5±1dBm
10	25		23±1dBm	11±1dBm	11±1dBm	23.5±1dBm	22±1dBm
10	50		22.5±1dBm	11±1dBm	11±1dBm	23.5±1dBm	22±1dBm
10	1	16- QAM	23.5±1dBm	11±1dBm	11±1dBm	24±1dBm	21.5±1dBm
10	25		22±1dBm	10±1dBm	10±1dBm	23.5±1dBm	20±1dBm
10	50		21.5±1dBm	10±1dBm	10±1dBm	23.5±1dBm	20±1dBm
15	1	QPSK	24±1dBm	N/A	N/A	23.5±1dBm	22.5±1dBm
15	36		22.5±1dBm	N/A	N/A	23.5±1dBm	20±1dBm
15	75		22.5±1dBm	N/A	N/A	23.5±1dBm	20±1dBm
15	1	16- QAM	23.5±1dBm	N/A	N/A	24±1dBm	20±1dBm
15	36		22±1dBm	N/A	N/A	23.5±1dBm	20±1dBm
15	75		21.5±1dBm	N/A	N/A	23.5±1dBm	20±1dBm
20	1	QPSK	23.5±1dBm	N/A	N/A	23.5±1dBm	23.5±1dBm
20	50		22.5±1dBm	N/A	N/A	23.5±1dBm	22±1dBm
20	100		22.5±1dBm	N/A	N/A	23.5±1dBm	22±1dBm
20	1	16- QAM	23±1dBm	N/A	N/A	24±1dBm	22.5±1dBm
20	50		22±1dBm	N/A	N/A	23.5±1dBm	21±1dBm
20	100		21.5±1dBm	N/A	N/A	23.5±1dBm	21±1dBm



Mode	BT
GFSK	4±1dBm
$\pi/4$ -DQPSK	3±1dBm
8DPSK	3±1dBm

Mode	BLE
GFSK(1Mbps)	-2.5±1dBm
GFSK(2Mbps)	-2.5±1dBm

Mode	2.4G WLAN ANT 1	2.4G WLAN ANT 2	2.4G WLAN MIMO
802.11b	14±1dBm	15.5±1dBm	N/A
802.11g	13.5±1dBm	14±1dBm	N/A
802.11n(HT20)	12±1dBm	13±1dBm	12.5±1dBm
802.11n(HT40)	12±1dBm	12.5±1dBm	12±1dBm
802.11ax-HE20	13±1dBm	14±1dBm	13±1dBm
802.11ac-VHT40	12.5±1dBm	13±1dBm	13±1dBm

Mode	5.2G WLAN ANT 1	5.2G WLAN ANT 2	5.2G WLAN MIMO
802.11a	13.5±1dBm	13±1dBm	N/A
802.11n-HT20	12±1dBm	11±1dBm	11.5±1dBm
802.11n-HT40	12±1dBm	11±1dBm	11.5±1dBm
802.11ac-VHT20	12±1dBm	11.5±1dBm	11.5±1dBm
802.11ac-VHT40	12±1dBm	10.5±1dBm	11.5±1dBm
802.11ac-VHT80	12±1dBm	10±1dBm	11±1dBm
802.11ax-VHT20	12±1dBm	10.5±1dBm	11.5±1dBm
802.11ax-VHT40	12±1dBm	11±1dBm	11.5±1dBm
802.11ax-VHT80	12±1dBm	10.5±1dBm	11±1dBm



Mode	5.3G WLAN ANT 1	5.3G WLAN ANT 2	5.3G WLAN MIMO
802.11a	13.5±1dBm	13±1dBm	N/A
802.11n-HT20	12.5±1dBm	11.5±1dBm	13±1dBm
802.11n-HT40	12.5±1dBm	11±1dBm	11.5±1dBm
802.11ac-VHT20	12.5±1dBm	11.5±1dBm	12±1dBm
802.11ac-VHT40	12.5±1dBm	11±1dBm	12±1dBm
802.11ac-VHT80	12±1dBm	11±1dBm	11.5±1dBm
802.11ax-VHT20	12±1dBm	11.5±1dBm	12±1dBm
802.11ax-VHT40	12.5±1dBm	11±1dBm	12±1dBm
802.11ax-VHT80	12.5±1dBm	10.5±1dBm	11.5±1dBm

Mode	5.6G WLAN ANT 1	5.6G WLAN ANT 2	5.6G WLAN MIMO
802.11a	14±1dBm	11±1dBm	N/A
802.11n-HT20	12.5±1dBm	10±1dBm	13±1dBm
802.11n-HT40	12±1dBm	9.5±1dBm	12±1dBm
802.11ac-VHT20	12.5±1dBm	9.5±1dBm	12.5±1dBm
802.11ac-VHT40	12±1dBm	9.5±1dBm	12±1dBm
802.11ac-VHT80	11.5±1dBm	10.5±1dBm	12±1dBm
802.11ax-VHT20	12±1dBm	10.5±1dBm	12±1dBm
802.11ax-VHT40	12±1dBm	11±1dBm	12.5±1dBm
802.11ax-VHT80	12±1dBm	11.5±1dBm	12±1dBm

Mode	5.8G WLAN ANT 1	5.8G WLAN ANT 2	5.8G WLAN MIMO
802.11a	13±1dBm	13±1dBm	N/A
802.11n-HT20	11.5±1dBm	10.5±1dBm	12±1dBm
802.11n-HT40	12±1dBm	9.5±1dBm	11.5±1dBm
802.11ac-VHT20	12±1dBm	9.5±1dBm	12±1dBm
802.11ac-VHT40	11.5±1dBm	9±1dBm	11.5±1dBm
802.11ac-VHT80	11.5±1dBm	10±1dBm	11±1dBm
802.11ax-VHT20	11.5±1dBm	10±1dBm	12±1dBm
802.11ax-VHT40	12±1dBm	11±1dBm	11.5±1dBm
802.11ax-VHT80	11.5±1dBm	11±1dBm	11.5±1dBm



BW[MHz]	Mode	SA N2	SA N5	SA N7
5	DFT_BPSK	22.5±1dBm	23.3±1dBm	22.3±1dBm
5	DFT_QPSK	22.5±1dBm	23.3±1dBm	22.3±1dBm
5	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
5	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
5	DFT_QAM256	18±1dBm	18±1dBm	18±1dBm
5	CP_QPSK	21.5±1dBm	21.5±1dBm	21.5±1dBm
10	DFT_BPSK	22.5±1dBm	23.3±1dBm	22.3±1dBm
10	DFT_QPSK	22.5±1dBm	23.3±1dBm	22.3±1dBm
10	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
10	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
10	DFT_QAM256	18±1dBm	18±1dBm	18±1dBm
10	CP_QPSK	21.5±1dBm	21.5±1dBm	21.5±1dBm
15	DFT_BPSK	22.5±1dBm	23.3±1dBm	22.3±1dBm
15	DFT_QPSK	22.5±1dBm	23.3±1dBm	22.3±1dBm
15	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
15	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
15	DFT_QAM256	18±1dBm	18±1dBm	18±1dBm
15	CP_QPSK	21.5±1dBm	21.5±1dBm	21.5±1dBm
20	DFT_BPSK	22.5±1dBm	23.5±1dBm	22.5±1dBm
20	DFT_QPSK	22.5±1dBm	23.5±1dBm	22.5±1dBm
20	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
20	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
20	DFT_QAM256	18±1dBm	18±1dBm	18±1dBm
20	CP_QPSK	21.5±1dBm	21.5±1dBm	21.5±1dBm



BW[MHz]	Mode	SA N25	SA N26 (814-824)	SA N26 (824-849)
5	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.4±1dBm
5	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.4±1dBm
5	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
5	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
5	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
5	CP_QPSK	22.±1dBm	21±1dBm	21±1dBm
10	DFT_BPSK	22.5±1dBm	22.6±1dBm	22.4±1dBm
10	DFT_QPSK	22.5±1dBm	22.6±1dBm	22.4±1dBm
10	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
10	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
10	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
10	CP_QPSK	22.±1dBm	21±1dBm	21±1dBm
15	DFT_BPSK	22.5±1dBm	N/A	22.4±1dBm
15	DFT_QPSK	22.5±1dBm	N/A	22.4±1dBm
15	DFT_QAM16	21.5±1dBm	N/A	21.5±1dBm
15	DFT_QAM64	20±1dBm	N/A	20±1dBm
15	DFT_QAM256	18±1dBm	N/A	18±1dBm
15	CP_QPSK	22.±1dBm	N/A	21±1dBm
20	DFT_BPSK	22.5±1dBm	N/A	22.6±1dBm
20	DFT_QPSK	22.5±1dBm	N/A	22.6±1dBm
20	DFT_QAM16	21.5±1dBm	N/A	21.5±1dBm
20	DFT_QAM64	20±1dBm	N/A	20±1dBm
20	DFT_QAM256	18±1dBm	N/A	18±1dBm
20	CP_QPSK	22.±1dBm	N/A	21±1dBm



BW[MHz]	Mode	SA N38	SA N41	SA N77 (3450-3550)	SA N77 (3700-3980)
10	DFT_BPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
10	DFT_QPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
10	DFT_QAM16	21.5±1dBm	22±1dBm	21.5±1dBm	21.5±1dBm
10	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm	20±1dBm
10	DFT_QAM256	18±1dBm	18.5±1dBm	19±1dBm	18±1dBm
10	CP_QPSK	22±1dBm	21.5±1dBm	21±1dBm	21±1dBm
15	DFT_BPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
15	DFT_QPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
15	DFT_QAM16	21.5±1dBm	22±1dBm	21.5±1dBm	21.5±1dBm
15	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm	20±1dBm
15	DFT_QAM256	18±1dBm	18.5±1dBm	19±1dBm	18±1dBm
15	CP_QPSK	22±1dBm	21.5±1dBm	21±1dBm	21±1dBm
20	DFT_BPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
20	DFT_QPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
20	DFT_QAM16	21.5±1dBm	22±1dBm	21.5±1dBm	21.5±1dBm
20	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm	20±1dBm
20	DFT_QAM256	18±1dBm	18.5±1dBm	19±1dBm	18±1dBm
20	CP_QPSK	22±1dBm	21.5±1dBm	21±1dBm	21±1dBm
25	DFT_BPSK	/	22.6±1dBm	/	/
25	DFT_QPSK	/	22.6±1dBm	/	/
25	DFT_QAM16	/	22±1dBm	/	/
25	DFT_QAM64	/	20±1dBm	/	/
25	DFT_QAM256	/	18.5±1dBm	/	/
25	CP_QPSK	/	21.5±1dBm	/	/
30	DFT_BPSK	/	22.6±1dBm	/	/
30	DFT_QPSK	/	22.6±1dBm	/	/
30	DFT_QAM16	/	22±1dBm	/	/
30	DFT_QAM64	/	20±1dBm	/	/
30	DFT_QAM256	/	18.5±1dBm	/	/
30	CP_QPSK	/	21.5±1dBm	/	/
40	DFT_BPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
40	DFT_QPSK	22.5±1dBm	22.6±1dBm	22.5±1dBm	22.5±1dBm
40	DFT_QAM16	21.5±1dBm	22±1dBm	21.5±1dBm	21.5±1dBm
40	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm	20±1dBm
40	DFT_QAM256	18±1dBm	18.5±1dBm	19±1dBm	18±1dBm
40	CP_QPSK	22±1dBm	21.5±1dBm	21±1dBm	21±1dBm
50	DFT_BPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
50	DFT_QPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
50	DFT_QAM16	/	22±1dBm	21.5±1dBm	21.5±1dBm
50	DFT_QAM64	/	20±1dBm	20±1dBm	20±1dBm
50	DFT_QAM256	/	18.5±1dBm	19±1dBm	18±1dBm
50	CP_QPSK	/	21.5±1dBm	21±1dBm	21±1dBm
60	DFT_BPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
60	DFT_QPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
60	DFT_QAM16	/	22±1dBm	21.5±1dBm	21.5±1dBm
60	DFT_QAM64	/	20±1dBm	20±1dBm	20±1dBm



60	DFT_QAM256	/	18.5±1dBm	19±1dBm	18±1dBm
60	CP_QPSK	/	21.5±1dBm	21±1dBm	21±1dBm
70	DFT_BPSK	/	/	22.5±1dBm	22.5±1dBm
70	DFT_QPSK	/	/	22.5±1dBm	22.5±1dBm
70	DFT_QAM16	/	/	21.5±1dBm	21.5±1dBm
70	DFT_QAM64	/	/	20±1dBm	20±1dBm
70	DFT_QAM256	/	/	19±1dBm	18±1dBm
70	CP_QPSK	/	/	21±1dBm	21±1dBm
80	DFT_BPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
80	DFT_QPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
80	DFT_QAM16	/	22±1dBm	21.5±1dBm	21.5±1dBm
80	DFT_QAM64	/	20±1dBm	20±1dBm	20±1dBm
80	DFT_QAM256	/	18.5±1dBm	19±1dBm	18±1dBm
80	CP_QPSK	/	21.5±1dBm	21±1dBm	21±1dBm
90	DFT_BPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
90	DFT_QPSK	/	22.6±1dBm	22.5±1dBm	22.5±1dBm
90	DFT_QAM16	/	22±1dBm	21.5±1dBm	21.5±1dBm
90	DFT_QAM64	/	20±1dBm	20±1dBm	20±1dBm
90	DFT_QAM256	/	18.5±1dBm	19±1dBm	18±1dBm
90	CP_QPSK	/	21.5±1dBm	21±1dBm	21±1dBm
100	DFT_BPSK	/	22.8±1dBm	22.7±1dBm	22.5±1dBm
100	DFT_QPSK	/	22.8±1dBm	22.7±1dBm	22.5±1dBm
100	DFT_QAM16	/	22±1dBm	21.5±1dBm	21.5±1dBm
100	DFT_QAM64	/	20±1dBm	20±1dBm	20±1dBm
100	DFT_QAM256	/	18.5±1dBm	19±1dBm	18±1dBm
100	CP_QPSK	/	21.5±1dBm	21±1dBm	21±1dBm



BW[MHz]	Mode	SA N77 (3700- 3980)	SA N78 (3450- 3550)	SA N78 (3700- 3980)
10	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
10	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
10	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
10	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
10	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
10	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
15	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
15	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
15	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
15	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
15	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
15	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
20	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
20	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
20	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
20	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
20	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
20	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
40	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
40	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
40	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
40	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
40	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
40	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
50	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
50	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
50	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
50	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
50	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
50	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
60	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
60	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
60	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
60	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
60	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
60	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
70	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
70	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
70	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
70	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
70	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
70	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
80	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
80	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
80	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm



80	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
80	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
80	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
90	DFT_BPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
90	DFT_QPSK	22.5±1dBm	22.4±1dBm	22.3±1dBm
90	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
90	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
90	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
90	CP_QPSK	21±1dBm	21±1dBm	21±1dBm
100	DFT_BPSK	22.5±1dBm	22.5±1dBm	22.5±1dBm
100	DFT_QPSK	22.5±1dBm	22.5±1dBm	22.5±1dBm
100	DFT_QAM16	21.5±1dBm	21.5±1dBm	21.5±1dBm
100	DFT_QAM64	20±1dBm	20±1dBm	20±1dBm
100	DFT_QAM256	18±1dBm	18.5±1dBm	18±1dBm
100	CP_QPSK	21±1dBm	21±1dBm	21±1dBm



BW[MHz]	Mode	NSA N41+B5
10	DFT_BPSK	22.4±1dBm
10	DFT_QPSK	22.4±1dBm
10	DFT_QAM16	21.5±1dBm
10	DFT_QAM64	20±1dBm
10	DFT_QAM256	18±1dBm
10	CP_QPSK	21±1dBm
15	DFT_BPSK	22.4±1dBm
15	DFT_QPSK	22.4±1dBm
15	DFT_QAM16	21.5±1dBm
15	DFT_QAM64	20±1dBm
15	DFT_QAM256	18±1dBm
15	CP_QPSK	21±1dBm
20	DFT_BPSK	22.4±1dBm
20	DFT_QPSK	22.4±1dBm
20	DFT_QAM16	21.5±1dBm
20	DFT_QAM64	20±1dBm
20	DFT_QAM256	18±1dBm
20	CP_QPSK	21±1dBm
30	DFT_BPSK	22.4±1dBm
30	DFT_QPSK	22.4±1dBm
30	DFT_QAM16	21.5±1dBm
30	DFT_QAM64	20±1dBm
30	DFT_QAM256	18±1dBm
30	CP_QPSK	21±1dBm
40	DFT_BPSK	22.4±1dBm
40	DFT_QPSK	22.4±1dBm
40	DFT_QAM16	21.5±1dBm
40	DFT_QAM64	20±1dBm
40	DFT_QAM256	18±1dBm
40	CP_QPSK	21±1dBm
50	DFT_BPSK	22.4±1dBm
50	DFT_QPSK	22.4±1dBm
50	DFT_QAM16	21.5±1dBm
50	DFT_QAM64	20±1dBm
50	DFT_QAM256	18±1dBm
50	CP_QPSK	21±1dBm
60	DFT_BPSK	22.4±1dBm
60	DFT_QPSK	22.4±1dBm
60	DFT_QAM16	21.5±1dBm
60	DFT_QAM64	20±1dBm
60	DFT_QAM256	18±1dBm
60	CP_QPSK	21±1dBm
80	DFT_BPSK	22.4±1dBm
80	DFT_QPSK	22.4±1dBm
80	DFT_QAM16	21.5±1dBm
80	DFT_QAM64	20±1dBm
80	DFT_QAM256	18±1dBm



80	CP_QPSK	21±1dBm
90	DFT_BPSK	22.4±1dBm
90	DFT_QPSK	22.4±1dBm
90	DFT_QAM16	21.5±1dBm
90	DFT_QAM64	20±1dBm
90	DFT_QAM256	18±1dBm
90	CP_QPSK	21±1dBm
100	DFT_BPSK	22.5±1dBm
100	DFT_QPSK	22.5±1dBm
100	DFT_QAM16	21.5±1dBm
100	DFT_QAM64	20±1dBm
100	DFT_QAM256	18±1dBm
100	CP_QPSK	21±1dBm

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

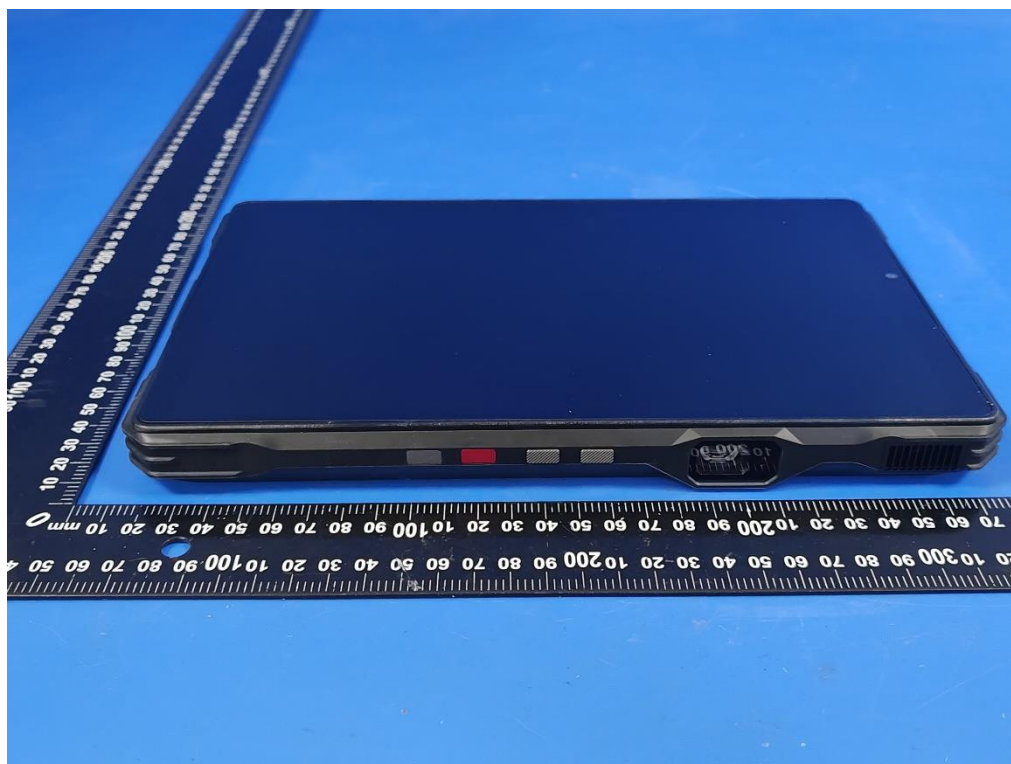


Back side





Right Edge



Left Edge





Top Edge



Bottom Edge



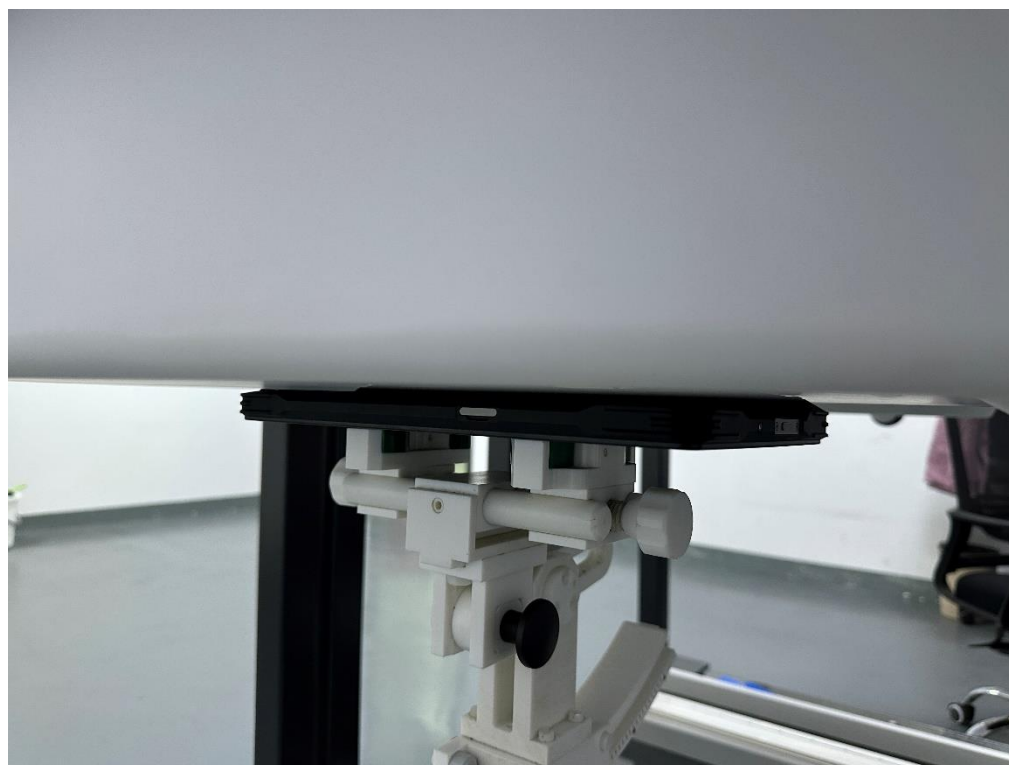


11.2 Setup Photos

Body Front side



Body Back side





Body Right side

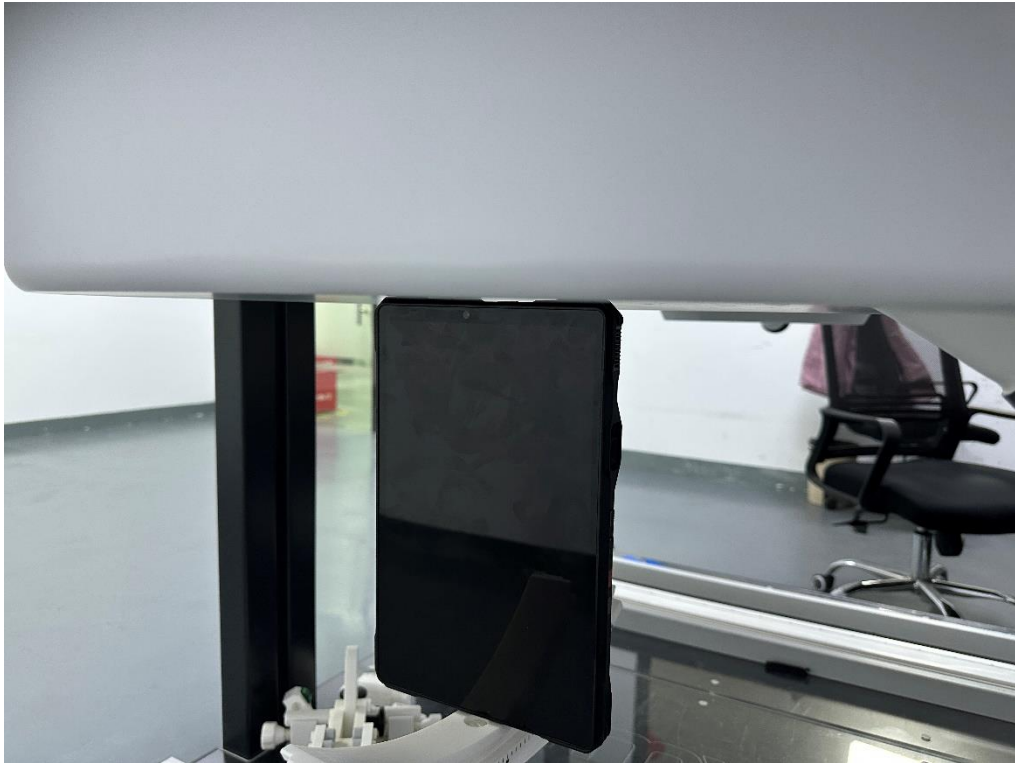


Body Left side

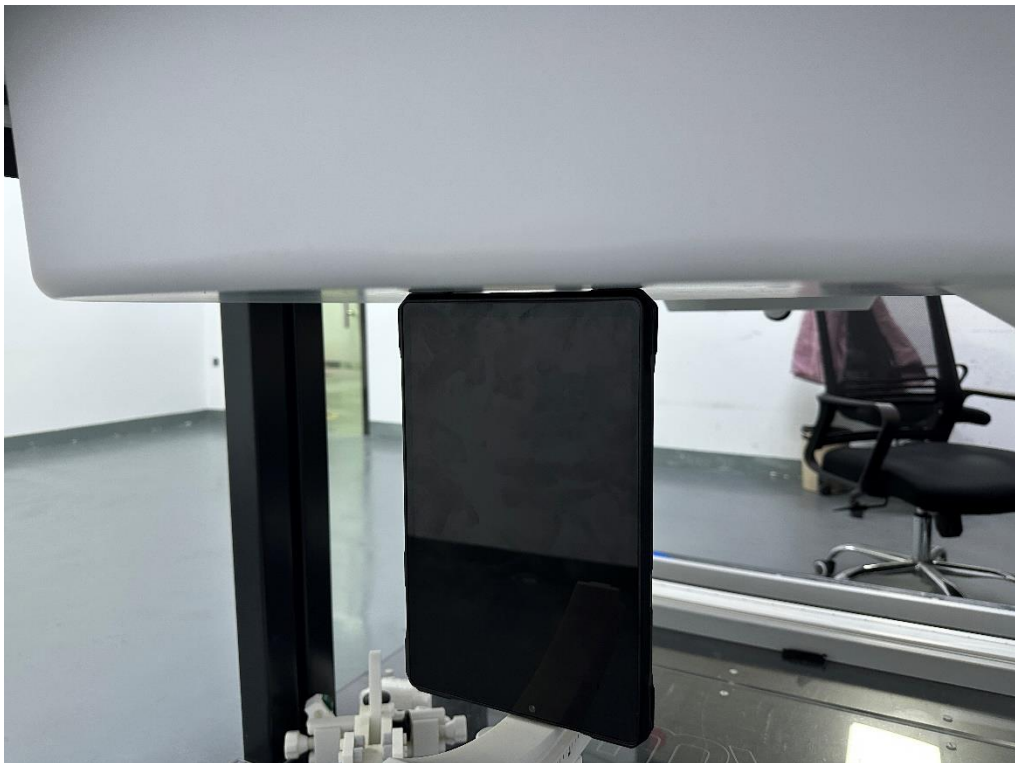




Top Edge



Bottom Edge





12. SAR Result Summary

12.1 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)	Scaled SAR (W/Kg)	Meas. No.
GSM850	GSM	Back Side	824.2	0.812	2.00	34.00	33.47	0.917	/
		Back Side	836.6	0.877	-1.51	34.00	33.77	0.925	/
		Back Side	848.8	0.929	-0.01	34.00	33.87	0.957	1
		Left Side	848.8	0.399	0.66	34.00	33.87	0.411	/
		Right Side	848.8	0.065	-2.08	34.00	33.87	0.067	/
		Top Side	848.8	0.034	1.91	34.00	33.87	0.035	/
		Bottom Side	848.8	0.384	-2.68	34.00	33.87	0.396	/
PCS 1900	GSM	Back Side	1909.8	0.511	0.67	30.50	30.19	0.549	2
		Left Side	1909.8	0.049	-2.68	30.50	30.19	0.053	/
		Right Side	1909.8	0.027	-2.57	30.50	30.19	0.029	/
		Bottom Side	1909.8	0.308	0.38	30.50	30.19	0.331	/
WCDMA Band II	RMC	Back Side	1907.6	0.438	-3.26	24.00	23.77	0.462	3
		Left Side	1907.6	0.022	3.02	24.00	23.77	0.023	/
		Right Side	1907.6	0.021	2.17	24.00	23.77	0.022	/
		Bottom Side	1907.6	0.244	-1.59	24.00	23.77	0.257	/
WCDMA Band IV	RMC	Back Side	1752.4	0.663	-1.40	24.00	23.65	0.719	4
		Left Side	1752.4	0.038	-1.28	24.00	23.65	0.041	/
		Right Side	1752.4	0.024	-1.30	24.00	23.65	0.026	/
		Bottom Side	1752.4	0.467	0.55	24.00	23.65	0.506	/
WCDMA Band V	RMC	Back Side	846.6	0.296	-1.17	24.00	23.54	0.329	5
		Left Side	846.6	0.146	2.12	24.00	23.54	0.162	/
		Right Side	846.6	0.024	3.35	24.00	23.54	0.027	/
		Bottom Side	846.6	0.141	3.97	24.00	23.54	0.157	/
CDMA	BC0	Back Side	824.7	0.280	0.69	24.00	23.56	0.310	6
		Left Side	824.7	0.117	1.96	24.00	23.56	0.129	/
		Right Side	824.7	0.067	1.94	24.00	23.56	0.074	/
		Bottom Side	824.7	0.121	0.39	24.00	23.56	0.134	/
CDMA	BC1	Back Side	1908.75	0.133	1.29	23.50	23.47	0.134	7
		Left Side	1908.75	0.071	2.42	23.50	23.47	0.071	/
		Right Side	1908.75	0.044	1.93	23.50	23.47	0.044	/
		Bottom Side	1908.75	0.054	-3.40	23.50	23.47	0.054	/
2.4GHz WLAN ANT 1	802.11b	Back Side	2412	0.256	0.11	15.00	14.55	0.284	8
		Left Side	2412	0.054	-2.31	15.00	14.55	0.060	/
2.4GHz WLAN ANT 2	802.11b	Back Side	2462	0.282	1.75	16.50	16.30	0.295	9
		Left Side	2462	0.101	2.00	16.50	16.30	0.106	/
		Top Side	2462	0.043	0.91	16.50	16.30	0.045	/
2.4GHz WLAN ANT 1 MIMO	802.11ac-VHT40	Back Side	2422	0.052	3.63	14.00	13.93	0.053	10
		Left Side	2422	0.034	-3.31	14.00	13.93	0.035	/
2.4GHz WLAN ANT 2 MIMO	802.11ac-VHT40	Back Side	2422	0.034	1.91	14.00	13.93	0.035	11
		Left Side	2422	0.019	1.09	14.00	13.93	0.019	/
		Top Side	2422	0.011	1.76	14.00	13.93	0.011	/
5.2GHz WLAN ANT 1	802.11a	Back Side	5180	0.307	0.04	14.50	14.41	0.313	12
		Left Side	5180	0.096	3.56	14.50	14.41	0.098	/



5.2GHz WLAN ANT 2	802.11a	Back Side	5180	0.305	-2.35	14.00	13.95	0.309	13
		Left Side	5180	0.122	3.72	14.00	13.95	0.123	/
		Left Side	5180	0.105	3.72	14.00	13.95	0.106	/
5.2GHz WLAN ANT 1 MIMO	802.11ax- HE20	Back Side	5240	0.150	-2.51	12.50	12.48	0.151	14
		Left Side	5240	0.064	-0.47	12.50	12.48	0.064	/
5.2GHz WLAN ANT 2 MIMO	802.11ax- HE20	Back Side	5240	0.091	1.22	12.50	12.48	0.091	15
		Left Side	5240	0.041	-2.05	12.50	12.48	0.041	/
		Top Side	5240	0.037	-2.05	12.50	12.48	0.037	/
5.3GHz WLAN ANT 1	802.11a	Back Side	5320	0.113	2.67	14.50	14.40	0.116	16
		Left Side	5320	0.051	0.50	14.50	14.40	0.052	/
5.3GHz WLAN ANT 2	802.11a	Back Side	5300	0.147	-1.75	14.00	13.97	0.148	17
		Left Side	5300	0.075	2.01	14.00	13.97	0.076	/
		Top Side	5300	0.066	2.01	14.00	13.97	0.066	/
5.3GHz WLAN ANT 1 MIMO	802.11n- HT20	Back Side	5260	0.199	1.36	14.00	13.73	0.212	18
		Left Side	5260	0.070	0.67	14.00	13.73	0.074	/
5.3GHz WLAN ANT 2 MIMO	802.11n- HT20	Back Side	5260	0.201	2.30	14.00	13.73	0.214	19
		Left Side	5260	0.087	3.59	14.00	13.73	0.093	/
		Top Side	5260	0.079	3.59	14.00	13.73	0.084	/
5.6GHz WLAN ANT 1	802.11a	Back Side	5700	0.113	0.18	15.00	14.57	0.125	20
		Left Side	5700	0.040	-0.55	15.00	14.57	0.044	/
5.6GHz WLAN ANT 2	802.11ax- HE80	Back Side	5530	0.314	-1.26	12.50	12.09	0.345	21
		Left Side	5530	0.109	2.41	12.50	12.09	0.120	/
		Top Side	5530	0.087	2.41	12.50	12.09	0.096	/
5.6GHz WLAN ANT 1 MIMO	802.11n- HT20	Back Side	5700	0.213	-0.50	14.00	13.77	0.225	22
		Left Side	5700	0.077	-3.86	14.00	13.77	0.081	/
5.6GHz WLAN ANT 2 MIMO	802.11n- HT20	Back Side	5700	0.108	-1.51	14.00	13.77	0.114	23
		Left Side	5700	0.061	-2.84	14.00	13.77	0.064	/
		Left Side	5700	0.044	-2.84	14.00	13.77	0.046	/
5.8GHz WLAN ANT 1	802.11a	Back Side	5745	0.348	2.20	14.00	13.95	0.352	24
		Left Side	5745	0.117	3.18	14.00	13.95	0.118	/
5.8GHz WLAN ANT 2	802.11a	Back Side	5745	0.368	0.51	14.00	13.53	0.410	25
		Left Side	5745	0.120	1.57	14.00	13.53	0.134	/
		Top Side	5745	0.106	1.57	14.00	13.53	0.118	/
5.8GHz WLAN ANT 1 MIMO	802.11ac- VHT20	Back Side	5745	0.127	-0.98	13.00	12.74	0.135	26
		Left Side	5745	0.050	3.00	13.00	12.74	0.053	/
5.8GHz WLAN ANT 2 MIMO	802.11ac- VHT20	Back Side	5745	0.096	-0.22	13.00	12.74	0.102	27
		Left Side	5745	0.036	-1.63	13.00	12.74	0.038	/
		Top Side	5745	0.031	-1.63	13.00	12.74	0.033	/

Band	Mode	Max SAR	WIFI MIMO
		(W/Kg)	
2.4G WLAN	802.11ac-VHT40	0.053	0.088
	802.11ac-VHT40	0.035	
5.2G WLAN	802.11ax-HE20	0.151	0.242
	802.11ax-HE20	0.091	
5.3G WLAN	802.11n-HT20	0.212	0.426
	802.11n-HT20	0.214	
5.6G WLAN	802.11n-HT20	0.225	0.339
	802.11n-HT20	0.114	
5.8G WLAN	802.11ac-VHT20	0.135	0.237
	802.11ac-VHT20	0.102	



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)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	99	Back Side	1900	0.571	2.87	25.00	24.52	0.638	28
			50	0	Back Side	1900	0.478	-1.26	23.50	23.39	0.490	/
			1	99	Left Side	1900	0.181	3.20	25.00	24.52	0.202	/
			50	0	Left Side	1900	0.168	3.85	23.50	23.39	0.172	/
			1	99	Right Side	1900	0.031	-3.73	25.00	24.52	0.035	/
			50	0	Right Side	1900	0.030	-2.85	23.50	23.39	0.031	/
			1	99	Bottom Side	1900	0.275	3.65	25.00	24.52	0.307	/
			50	0	Bottom Side	1900	0.254	-0.91	23.50	23.39	0.261	/
LTE Band 4	20M	QPSK	1	49	Back Side	1720	0.763	0.30	24.50	24.22	0.814	29
			1	99	Back Side	1732.5	0.715	0.02	24.50	24.04	0.795	/
			1	99	Back Side	1745	0.820	-2.16	24.50	24.41	0.837	/
			50	24	Back Side	1745	0.676	2.17	23.50	23.30	0.708	/
			1	99	Left Side	1745	0.252	-2.88	24.50	24.41	0.257	/
			50	24	Left Side	1745	0.209	-3.23	23.50	23.30	0.219	/
			1	99	Right Side	1745	0.170	-2.68	24.50	24.41	0.174	/
			50	24	Right Side	1745	0.148	-3.89	23.50	23.30	0.155	/
			1	99	Bottom Side	1745	0.100	-1.27	24.50	24.41	0.102	/
			50	24	Bottom Side	1745	0.093	3.02	23.50	23.30	0.097	/
LTE Band 5	10M	QPSK	1	0	Back Side	844	0.411	-2.23	25.00	24.56	0.455	30
			25	12	Back Side	844	0.381	-3.30	25.00	24.54	0.424	/
			1	0	Left Side	844	0.165	-2.74	25.00	24.56	0.183	/
			25	12	Left Side	844	0.139	-0.98	25.00	24.54	0.155	/
			1	0	Right Side	844	0.122	-1.30	25.00	24.56	0.135	/
			25	12	Right Side	844	0.101	0.89	25.00	24.54	0.112	/
			1	0	Bottom Side	844	0.043	-2.31	25.00	24.56	0.048	/
			25	12	Bottom Side	844	0.038	0.62	25.00	24.54	0.042	/



LTE Band 7	20M	QPSK	1	99	Back Side	2510	0.861	1.84	25.50	24.93	0.982	/
			1	99	Back Side	2535	0.940	-1.05	25.50	25.03	1.047	31
			1	49	Back Side	2560	0.823	0.52	25.50	24.90	0.945	/
			50	0	Back Side	2560	0.773	-1.68	24.00	23.97	0.778	/
			1	99	Left Side	2535	0.286	-3.29	25.50	25.03	0.319	/
			50	0	Left Side	2560	0.247	-3.12	24.00	23.97	0.249	/
			1	99	Top Side	2535	0.147	-1.09	25.50	25.03	0.164	/
			50	0	Top Side	2560	0.122	-3.94	24.00	23.97	0.123	/
LTE Band 12	10M	QPSK	1	49	Back Side	704	0.514	-2.34	25.00	24.71	0.549	32
			25	0	Back Side	704	0.427	0.59	24.00	23.58	0.470	/
			1	49	Left Side	704	0.162	0.54	25.00	24.71	0.173	/
			25	0	Left Side	704	0.129	0.23	24.00	23.58	0.142	/
			1	49	Right Side	704	0.118	2.13	25.00	24.71	0.126	/
			25	0	Right Side	704	0.116	2.90	24.00	23.58	0.128	/
			1	49	Bottom Side	704	0.064	-2.05	25.00	24.71	0.068	/
			25	0	Bottom Side	704	0.067	-0.88	24.00	23.58	0.074	/
LTE Band 13	10M	QPSK	1	0	Back Side	782	0.504	-3.19	25.00	24.64	0.548	33
			25	12	Back Side	782	0.411	-3.43	23.50	23.48	0.413	/
			1	0	Left Side	782	0.154	-0.90	25.00	24.64	0.167	/
			25	12	Left Side	782	0.150	3.88	23.50	23.48	0.151	/
			1	0	Right Side	782	0.118	-0.82	25.00	24.64	0.128	/
			25	12	Right Side	782	0.090	-0.44	23.50	23.48	0.090	/
			1	0	Bottom Side	782	0.051	-3.60	25.00	24.64	0.055	/
			25	12	Bottom Side	782	0.040	2.81	23.50	23.48	0.040	/
LTE Band 17	10M	QPSK	1	49	Back Side	709	0.532	-0.96	25.00	24.76	0.562	34
			25	0	Back Side	710	0.443	1.03	24.00	23.62	0.484	/
			1	49	Left Side	709	0.160	-1.41	25.00	24.76	0.169	/
			25	0	Left Side	710	0.128	1.17	24.00	23.62	0.140	/
			1	49	Right Side	709	0.122	0.35	25.00	24.76	0.129	/
			25	0	Right Side	710	0.106	-2.27	24.00	23.62	0.116	/
			1	49	Bottom Side	709	0.057	-0.73	25.00	24.76	0.060	/
			25	0	Bottom Side	710	0.059	-2.45	24.00	23.62	0.064	/



LTE Band 25	20M	QPSK	1	99	Back Side	1860	0.735	1.99	24.50	24.17	0.793	/
			1	49	Back Side	1882.5	0.814	-0.27	24.50	24.37	0.839	/
			1	49	Back Side	1905	0.863	-1.14	24.50	24.50	0.863	35
			50	24	Back Side	1905	0.713	2.70	23.50	23.53	0.708	/
			1	49	Left Side	1905	0.271	-2.70	24.50	24.50	0.271	/
			50	24	Left Side	1905	0.223	3.48	23.50	23.53	0.221	/
			1	49	Right Side	1905	0.184	-0.18	24.50	24.50	0.184	/
			50	24	Right Side	1905	0.177	-0.92	23.50	23.53	0.176	/
			1	49	Bottom Side	1905	0.091	-2.96	24.50	24.50	0.091	/
			50	24	Bottom Side	1905	0.103	0.21	23.50	23.53	0.102	/
LTE Band 26	15M	QPSK	1	74	Back Side	841.5	0.416	1.40	25.00	24.71	0.445	36
			36	39	Back Side	841.5	0.340	2.51	24.00	23.51	0.381	/
			1	74	Left Side	841.5	0.139	-2.72	25.00	24.71	0.149	/
			36	39	Left Side	841.5	0.118	-1.33	24.00	23.51	0.132	/
			1	74	Right Side	841.5	0.096	2.62	25.00	24.71	0.103	/
			36	39	Right Side	841.5	0.086	2.58	24.00	23.51	0.096	/
			1	74	Bottom Side	841.5	0.054	-1.72	25.00	24.71	0.058	/
			36	39	Bottom Side	841.5	0.071	-2.78	24.00	23.51	0.079	/
LTE Band 38	20M	QPSK	1	49	Back Side	2580	0.483	-2.13	24.50	24.72	0.459	37
			50	24	Back Side	2595	0.394	0.01	23.50	23.51	0.393	/
			1	49	Left Side	2580	0.159	0.33	24.50	24.72	0.151	/
			50	24	Left Side	2595	0.130	-3.62	23.50	23.51	0.130	/
			1	49	Top Side	2580	0.081	-1.55	24.50	24.72	0.077	/
			50	24	Top Side	2595	0.086	-0.25	23.50	23.51	0.086	/
LTE Band 40	10M	QPSK	1	24	Back Side	2310	0.960	2.10	13.00	12.76	1.015	38
			25	24	Back Side	2310	0.785	2.44	12.00	11.69	0.843	/
			1	24	Left Side	2310	0.293	-3.40	13.00	12.76	0.310	/
			25	24	Left Side	2310	0.237	3.30	12.00	11.69	0.255	/



LTE Band 41	20M	QPSK	1	49	Back Side	2593	0.388	2.70	24.50	24.92	0.352	39
			50	0	Back Side	2680	0.323	2.90	24.50	24.40	0.331	/
			1	49	Left Side	2593	0.120	1.81	24.50	24.92	0.109	/
			50	0	Left Side	2680	0.095	-2.01	24.50	24.40	0.097	/
			1	49	Top Side	2593	0.074	-3.44	24.50	24.92	0.067	/
			50	0	Top Side	2680	0.071	-3.20	24.50	24.40	0.073	/
LTE Band 66	20M	QPSK	1	99	Back Side	1720	0.774	-2.45	24.00	24.05	0.765	40
			50	0	Back Side	1770	0.632	3.40	23.00	22.96	0.638	/
			1	99	Left Side	1720	0.248	-3.84	24.00	24.05	0.245	/
			50	0	Left Side	1770	0.217	-1.57	23.00	22.96	0.219	/
			1	99	Right Side	1720	0.156	2.88	24.00	24.05	0.154	/
			50	0	Right Side	1770	0.127	-0.37	23.00	22.96	0.128	/
			1	99	Bottom Side	1720	0.082	1.34	24.00	24.05	0.081	/
			50	0	Bottom Side	1770	0.085	-1.14	23.00	22.96	0.086	/
SA N2	20M	DFT_QPSK	1	104	Back Side	1900	0.327	-3.29	23.30	23.12	0.341	/
			50	25	Back Side	1900	0.380	-3.55	23.50	23.38	0.391	41
			1	104	Left Side	1900	0.092	1.23	23.30	23.12	0.096	/
			50	25	Left Side	1900	0.120	-1.36	23.50	23.38	0.123	/
			1	104	Right Side	1900	0.093	-1.45	23.30	23.12	0.097	/
			50	25	Right Side	1900	0.095	0.99	23.50	23.38	0.098	/
			1	104	Bottom Side	1900	0.060	-1.02	23.30	23.12	0.063	/
			50	25	Bottom Side	1900	0.054	0.36	23.50	23.38	0.056	/
SA N5	20M	DFT_QPSK	1	1	Back Side	834	0.232	-0.08	23.30	23.14	0.241	/
			50	25	Back Side	836.5	0.276	2.08	23.50	23.16	0.298	42
			1	1	Left Side	834	0.080	0.32	23.30	23.14	0.083	/
			50	25	Left Side	836.5	0.101	0.13	23.50	23.16	0.109	/
			1	1	Right Side	834	0.072	-2.65	23.30	23.14	0.075	/
			50	25	Right Side	836.5	0.075	3.53	23.50	23.16	0.081	/
			1	1	Bottom Side	834	0.036	-0.74	23.30	23.14	0.037	/
			50	25	Bottom Side	836.5	0.046	0.41	23.50	23.16	0.050	/



SA N7	20M	DFT_QPSK	1	104	Back Side	2560	0.406	1.80	23.00	22.98	0.408	/
			50	25	Back Side	2535	0.490	-1.54	23.50	23.09	0.539	43
			1	104	Left Side	2560	0.399	-2.93	23.00	22.98	0.401	/
			50	25	Left Side	2535	0.482	2.73	23.50	23.09	0.530	/
SA N25	20M	DFT_QPSK	1	1	Back Side	1905	0.368	1.40	23.30	23.01	0.393	/
			50	25	Back Side	1905	0.438	3.75	23.50	23.32	0.457	44
			1	1	Left Side	1905	0.126	2.49	23.30	23.01	0.135	/
			50	25	Left Side	1905	0.136	-3.11	23.50	23.32	0.142	/
			1	1	Right Side	1905	0.085	0.53	23.30	23.01	0.091	/
			50	25	Right Side	1905	0.091	3.37	23.50	23.32	0.095	/
			1	1	Bottom Side	1905	0.055	1.38	23.30	23.01	0.059	/
			50	25	Bottom Side	1905	0.054	1.98	23.50	23.32	0.056	/
SA N26	20M	DFT_QPSK	1	1	Back Side	836.5	0.297	3.15	23.30	23.05	0.315	/
			50	25	Back Side	831.5	0.344	1.54	23.60	23.19	0.378	45
			1	1	Left Side	836.5	0.117	3.09	23.30	23.05	0.124	/
			50	25	Left Side	831.5	0.118	3.80	23.60	23.19	0.130	/
			1	1	Right Side	836.5	0.073	-3.12	23.30	23.05	0.077	/
			50	25	Right Side	831.5	0.082	-1.01	23.60	23.19	0.090	/
			1	1	Bottom Side	836.5	0.067	-0.76	23.30	23.05	0.071	/
			50	25	Bottom Side	831.5	0.049	3.31	23.60	23.19	0.054	/
SA N38	40M	DFT_QPSK	1	104	Back Side	2590	0.436	0.84	23.00	22.85	0.451	/
			50	25	Back Side	2600	0.503	-2.02	23.50	23.44	0.510	46
			1	104	Left Side	2590	0.392	-0.96	23.00	22.85	0.406	/
			50	25	Left Side	2600	0.485	-3.39	23.50	23.44	0.492	/
SA N41	100M	DFT_QPSK	1	271	Back Side	2640	0.433	2.77	23.00	22.71	0.463	/
			135	67	Back Side	2640	0.506	1.20	23.80	23.36	0.560	47
			1	271	Left Side	2640	0.127	-3.03	23.00	22.71	0.136	/
			135	67	Left Side	2640	0.151	2.70	23.80	23.36	0.167	/



SA N77	100M	DFT_QPSK	1	271	Back Side	3750	0.436	2.10	22.50	22.37	0.449	/
			135	67	Back Side	3750	0.526	-3.61	23.50	23.06	0.582	48
			1	271	Left Side	3750	0.127	1.33	22.50	22.37	0.131	/
			135	67	Left Side	3750	0.165	-3.93	23.50	23.06	0.183	/
			1	271	Bottom Side	3750	0.084	2.08	22.50	22.37	0.087	/
			135	67	Bottom Side	3750	0.069	-0.24	23.50	23.06	0.076	/
SA N78	100M	DFT_QPSK	1	271	Back Side	3750	0.716	0.28	22.50	22.35	0.741	/
			135	67	Back Side	3750	0.843	1.78	23.50	23.07	0.931	49
			1	271	Left Side	3750	0.230	-2.34	22.50	22.35	0.238	/
			135	67	Left Side	3750	0.270	1.72	23.50	23.07	0.298	/
			1	271	Bottom Side	3750	0.087	-2.44	22.50	22.35	0.090	/
			135	67	Bottom Side	3750	0.094	-0.45	23.50	23.07	0.104	/

NSA:

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)	Scaled SAR (W/Kg)	Meas. No.
SA N41	100M	DFT_QPSK	1	271	Back Side	2640	0.433	2.77	23.00	22.71	0.463	/
			135	67	Back Side	2640	0.506	1.20	23.80	23.36	0.560	47
			1	271	Left Side	2640	0.127	-3.03	23.00	22.71	0.136	/
			135	67	Left Side	2640	0.151	2.70	23.80	23.36	0.167	/
LTE Band 5	20M	QPSK	1	0	Back Side	844	0.411	-2.23	25.00	24.56	0.455	30
			25	12	Back Side	844	0.381	-3.30	25.00	24.54	0.424	/
			1	0	Left Side	844	0.165	-2.74	25.00	24.56	0.183	/
			25	12	Left Side	844	0.139	-0.98	25.00	24.54	0.155	/
			1	0	Right Side	844	0.122	-1.30	25.00	24.56	0.135	/
			25	12	Right Side	844	0.101	0.89	25.00	24.54	0.112	/
			1	0	Bottom Side	844	0.043	-2.31	25.00	24.56	0.048	/
			25	12	Bottom Side	844	0.038	0.62	25.00	24.54	0.042	/

Band	Mode	Max SAR (W/Kg)	NSA N41+B5
NSA N41+B5	SA N41	0.455	1.015
	LTE B5	0.560	

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - 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.
 - Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
- 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.



12.2 Repeated SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR(W/Kg)
GSM 850	GPRS Data-4 Slot	Back Side	128	0.802	-0.10	34.00	33.47	0.906
		Back Side	190	0.863	-1.89	34.00	33.77	0.910
		Back Side	251	0.905	-3.75	34.00	33.87	0.932

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)	Scaled SAR (W/Kg)
LTE Band 4	20M	QPSK	1	49	Back Side	1720	0.757	2.52	24.50	24.22	0.807
			1	99	Back Side	1745	0.817	3.80	24.50	24.41	0.834
LTE Band 7	20M	QPSK	1	99	Back Side	2510	0.844	0.20	25.50	24.93	0.963
			1	99	Back Side	2535	0.698	1.28	25.50	25.03	0.778
			1	49	Back Side	2560	0.674	2.32	25.50	24.90	0.774
LTE Band 25	20M	QPSK	1	49	Back Side	1882.5	0.809	-1.45	24.50	24.37	0.834
			1	49	Back Side	1905	0.698	0.63	24.50	24.50	0.698
LTE Band 40	20M	QPSK	1	24	Back Side	2310	0.944	2.89	13.00	12.76	0.997
			25	24	Back Side	2310	0.698	3.66	12.00	11.69	0.750
SA N78	100M	DFT_QPSK	135	67	Back Side	3750	0.827	-2.65	23.50	23.07	0.913



12.3 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
GSM 850	GSM	Back Side	824.2	0.812	0.802	1.012
		Back Side	836.6	0.877	0.863	1.016
		Back Side	848.8	0.929	0.905	1.027

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	49	Back Side	1720	0.763	0.757	1.008
			1	99	Back Side	1745	0.820	0.817	1.003
LTE Band 7	20M	QPSK	1	99	Back Side	2510	0.861	0.844	1.020
			1	99	Back Side	2535	0.940	0.905	1.039
			1	49	Back Side	2560	0.823	0.811	1.015
LTE Band 25	20M	QPSK	1	49	Back Side	1882.5	0.814	0.809	1.006
			1	49	Back Side	1905	0.863	0.834	1.035
LTE Band 40	20M	QPSK	1	24	Back Side	2310	0.960	0.944	1.017
			25	24	Back Side	2310	0.785	0.783	1.002
SA N78	100M	DFT_QPSK	135	67	Back Side	3750	0.843	0.827	1.019

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.



12.4 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. CDMA + 2.4GHz WLAN/5G WLAN+NFC
	6. CDMA + Bluetooth+NFC
	7. LTE + 2.4GHz WLAN/5G WLAN+NFC
	8. LTE + Bluetooth+NFC
	9. SA+2.4GHz WLAN/5G WLAN+NFC
	10. SA+ Bluetooth+NFC
	11. NSA + 2.4GHz WLAN/5G WLAN+NFC
	12. NSA + 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	Head	5	3.162	5	2.441	0.132
	Body			5	2.441	0.132
NFC	Head	-43	0.000050	5	0.01356	0.0000002
	Body			5	0.01356	0.0000002



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN + NFC	Body	GSM	0.957	1.252
		NFC	0.0000002	
		2.4G WLAN	0.295	
GSM + Bluetooth+ NFC	Body	GSM	0.957	1.089
		NFC	0.0000002	
		BT	0.132	
GSM + 5G WLAN+ NFC	Body	GSM	0.957	1.383
		NFC	0.0000002	
		5G WLAN	0.426	
WCDMA + 2.4G WLAN + NFC	Body	WCDMA	0.719	1.014
		NFC	0.0000002	
		2.4G WLAN	0.295	
WCDMA + Bluetooth+ NFC	Body	WCDMA	0.719	0.851
		NFC	0.0000002	
		BT	0.132	
WCDMA + 5G WLAN+ NFC	Body	WCDMA	0.719	1.145
		NFC	0.0000002	
		5G WLAN	0.426	
CDMA + 2.4G WLAN + NFC	Body	CDMA	0.310	0.605
		NFC	0.0000002	
		2.4G WLAN	0.295	
CDMA + Bluetooth+ NFC	Body	CDMA	0.310	0.442
		NFC	0.0000002	
		BT	0.132	
CDMA + 5G WLAN+ NFC	Body	CDMA	0.310	0.736
		NFC	0.0000002	
		5G WLAN	0.426	
LTE + 2.4G WLAN + NFC	Body	LTE	1.047	1.342
		NFC	0.0000002	
		2.4G WLAN	0.295	
LTE + Bluetooth+ NFC	Body	LTE	1.047	1.179
		NFC	0.0000002	
		BT	0.132	
LTE + 5G WLAN+ NFC	Body	LTE	1.047	1.473
		NFC	0.0000002	
		5G WLAN	0.426	
NR SA + 2.4G WLAN + NFC	Body	NR SA	0.931	1.226
		NFC	0.0000002	
		2.4G WLAN	0.295	
NR SA + Bluetooth+ NFC	Body	NR SA	0.931	1.063
		NFC	0.0000002	
		BT	0.132	
NR SA + 5G WLAN+ NFC	Body	NR SA	0.931	1.357
		NFC	0.0000002	
		5G WLAN	0.426	



NSA + 2.4G WLAN + NFC	Body	NSA	1.015	1.310
		NFC	0.0000002	
		2.4G WLAN	0.295	
NSA + Bluetooth+ NFC	Body	NSA	1.015	1.147
		NFC	0.0000002	
		BT	0.132	
NSA + 5G WLAN+ NFC	Body	NSA	1.015	1.441
		NFC	0.0000002	
		5G WLAN	0.426	

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	2022.02.11	2025.02.10
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2022.02.11	2025.02.10
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2022.02.11	2025.02.10
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2022.02.11	2025.02.10
2300MHz Dipole	MVG	DIP2G300	SN 06/22 DIP2G100-644	2022.02.11	2025.02.10
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2022.02.11	2025.02.10
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2022.02.11	2025.02.10
3700MHz Dipole	MVG	DIP3G700	SN 06/22 DIP3G700-648	2022.02.11	2025.02.10
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2022.02.11	2025.02.10
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2024.02.07	2025.02.06
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2024.02.07	2025.02.06
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	2024.04.11	2025.04.10
Network Analyzer	ZVL	R&S	116184-HC	2024.03.25	2025.03.24
Multi Meter	DMM6500	Keithley	4527252	2024.03.15	2025.03.14
Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Wireless Communication Test Set	R&S	CMW500	137737	2024.03.09	2025.03.08
Power Sensor	R&S	Z11	116184	2024.02.23	2025.02.22
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2024.03.11	2025.03.10
Temperature hygrometer	N/A	TP101	N/A	2024.03.11	2025.03.10



Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.05.20	2028.05.19
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)

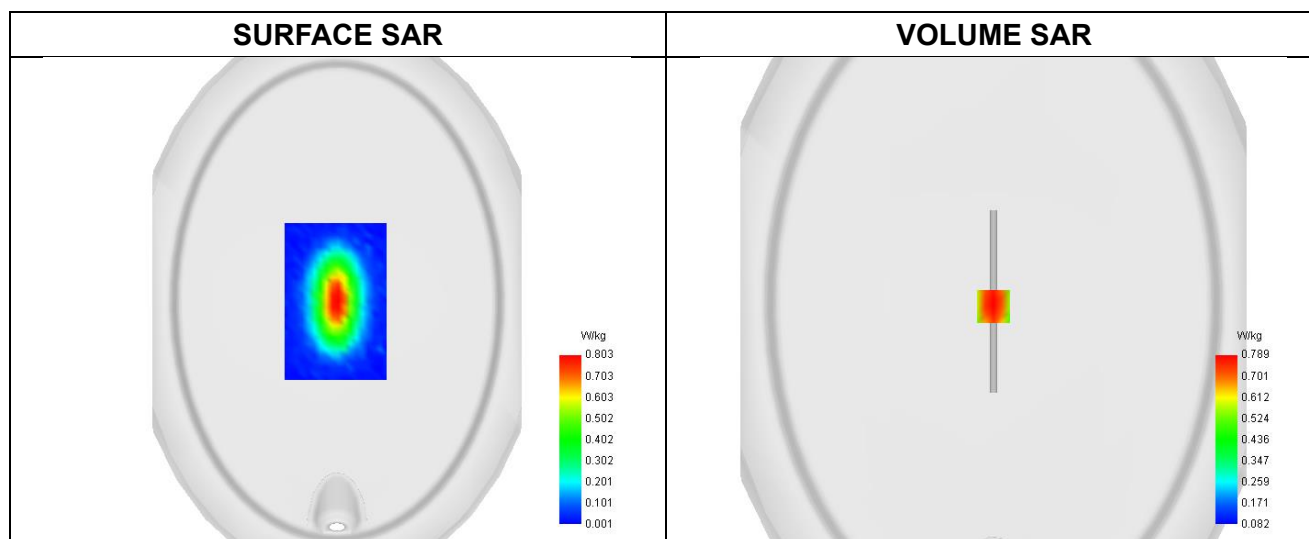
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-10-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.82
Conductivity (S/m)	0.87
Probe	SN 04/22 EPGO364
ConvF	1.68
Crest factor:	1:1

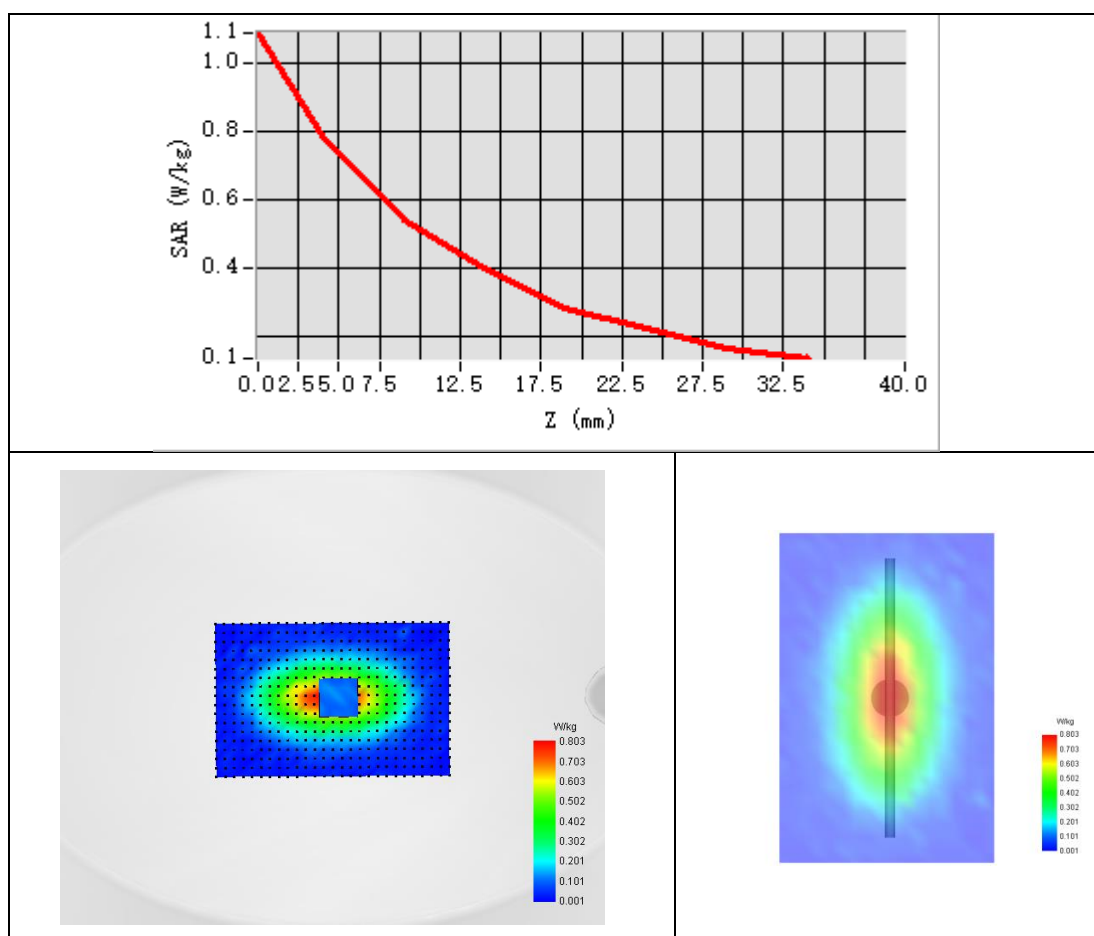


Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.542
SAR 1g (W/Kg)	0.797



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

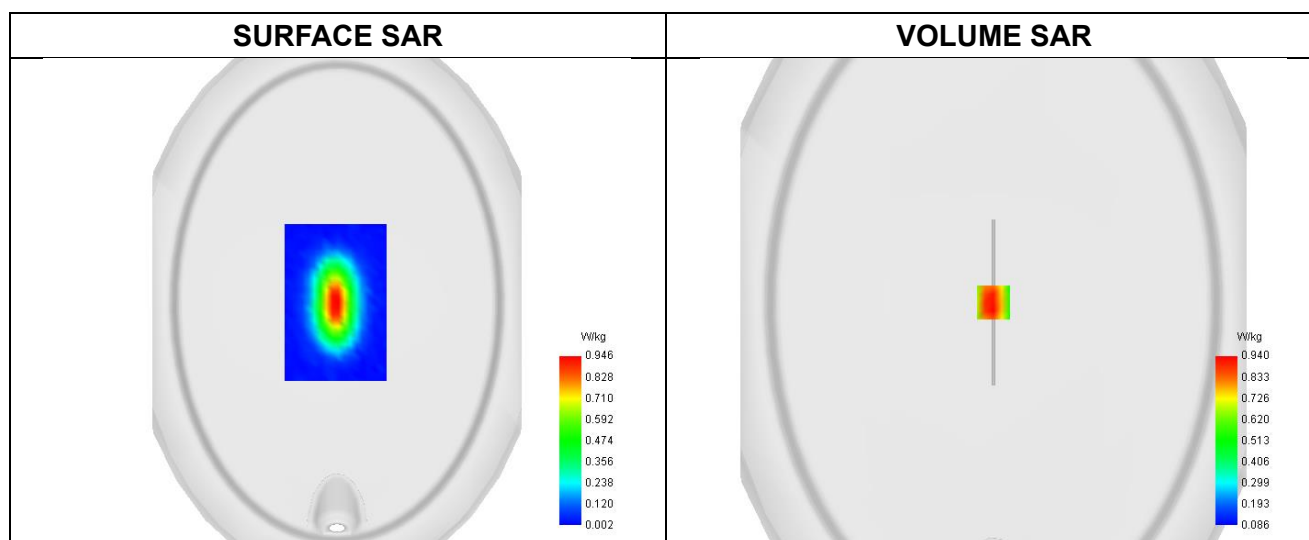
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-10-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.26
Conductivity (S/m)	0.93
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

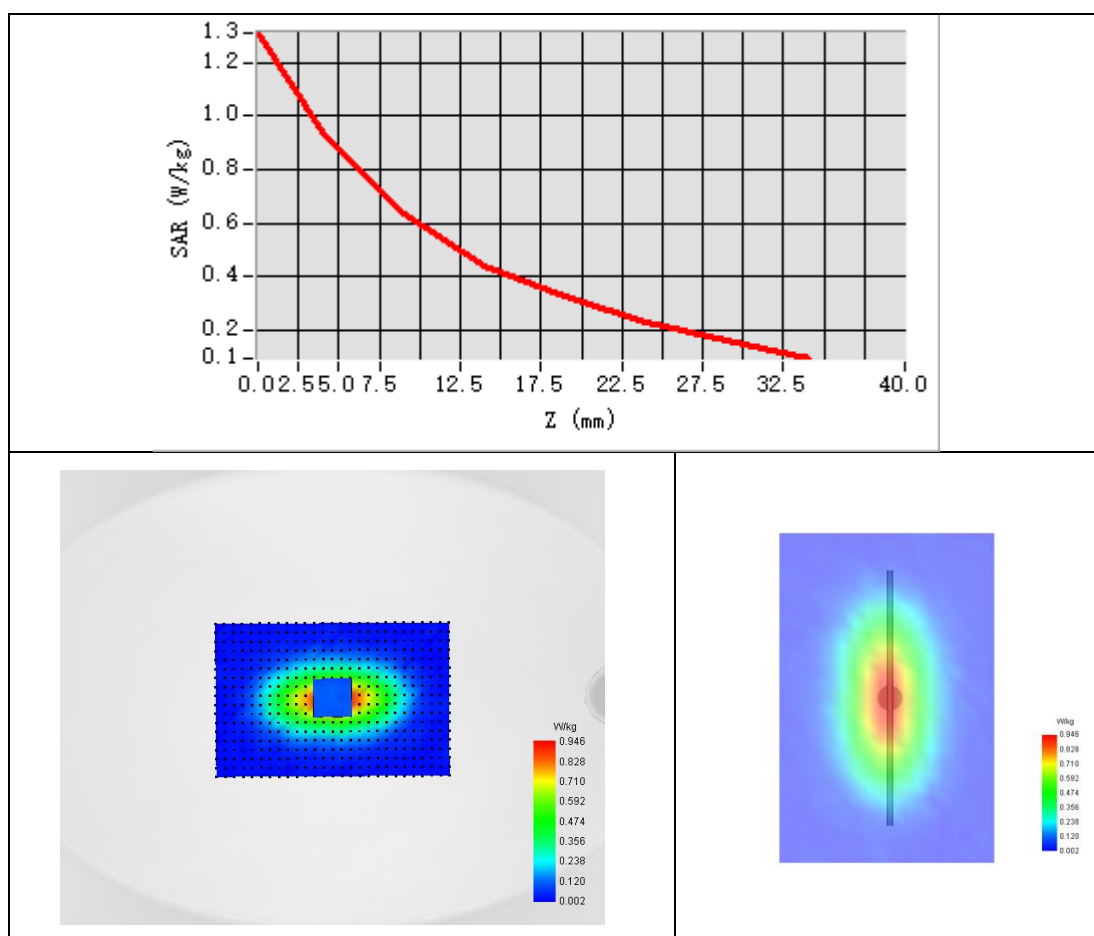


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.599
SAR 1g (W/Kg)	0.964



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

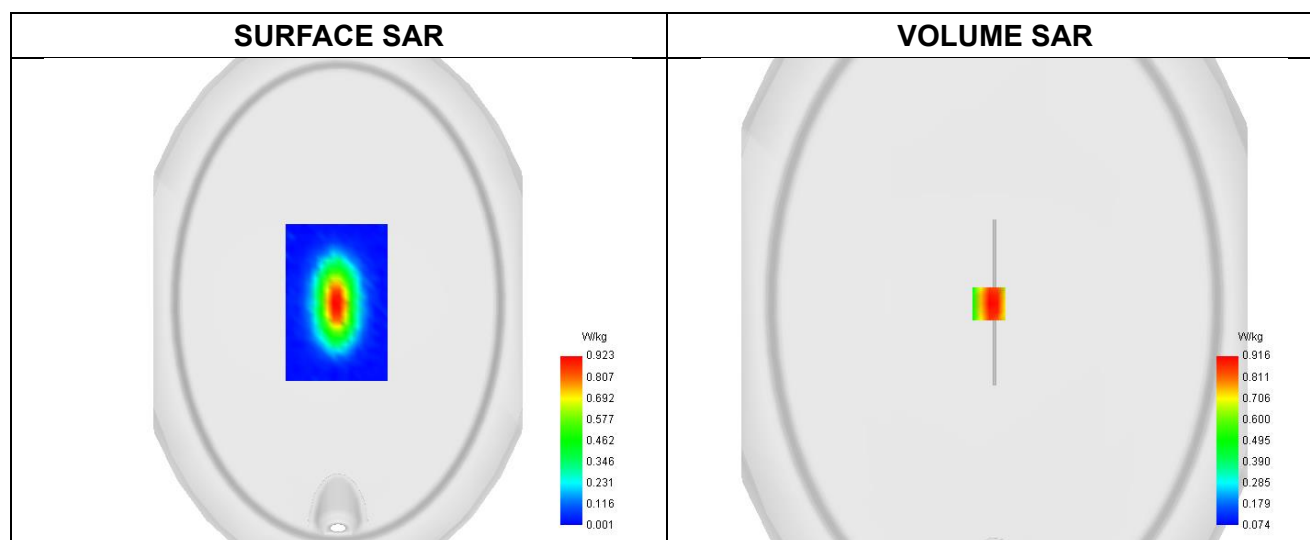
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-10-06

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.60
Conductivity (S/m)	0.88
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

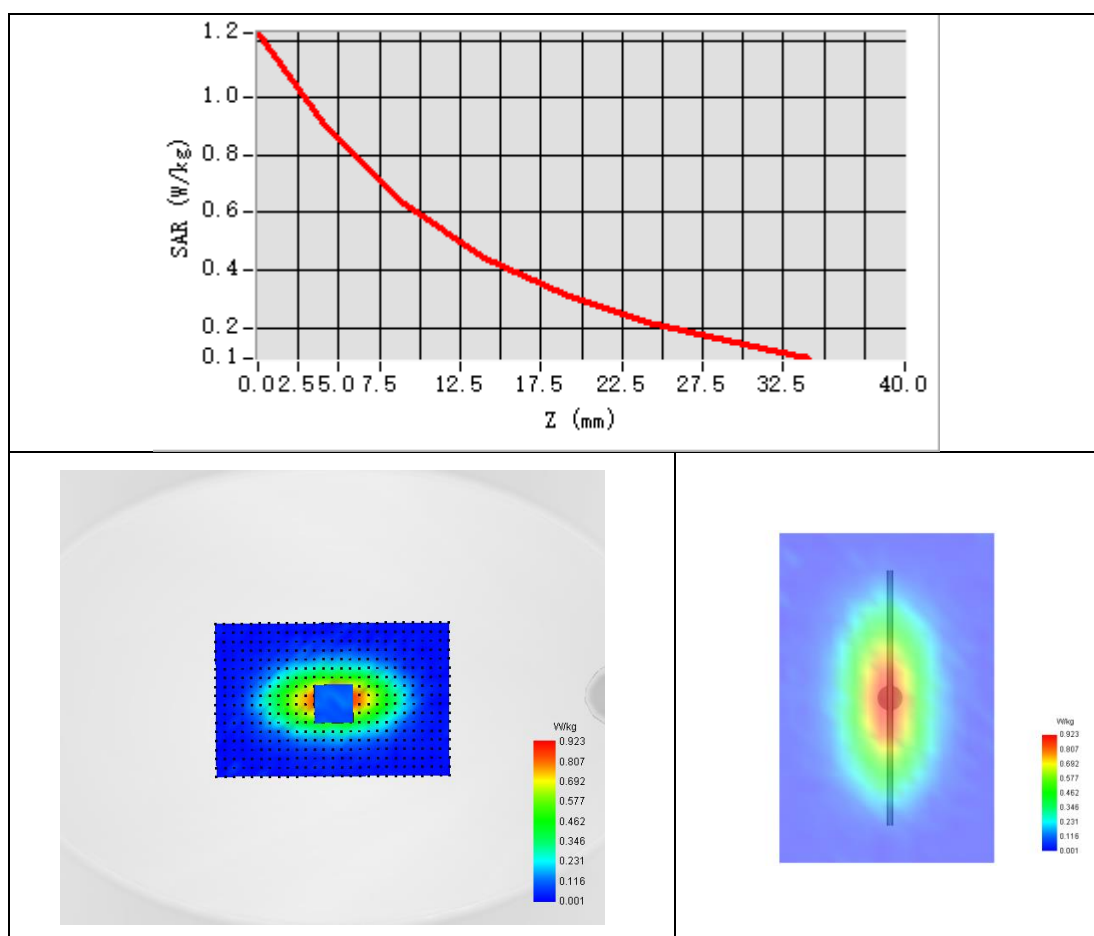


Maximum location: X=-5.00, Y=-1.00 ; SAR Peak: 1.27 W/kg

SAR 10g (W/Kg)	0.597
SAR 1g (W/Kg)	0.953



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

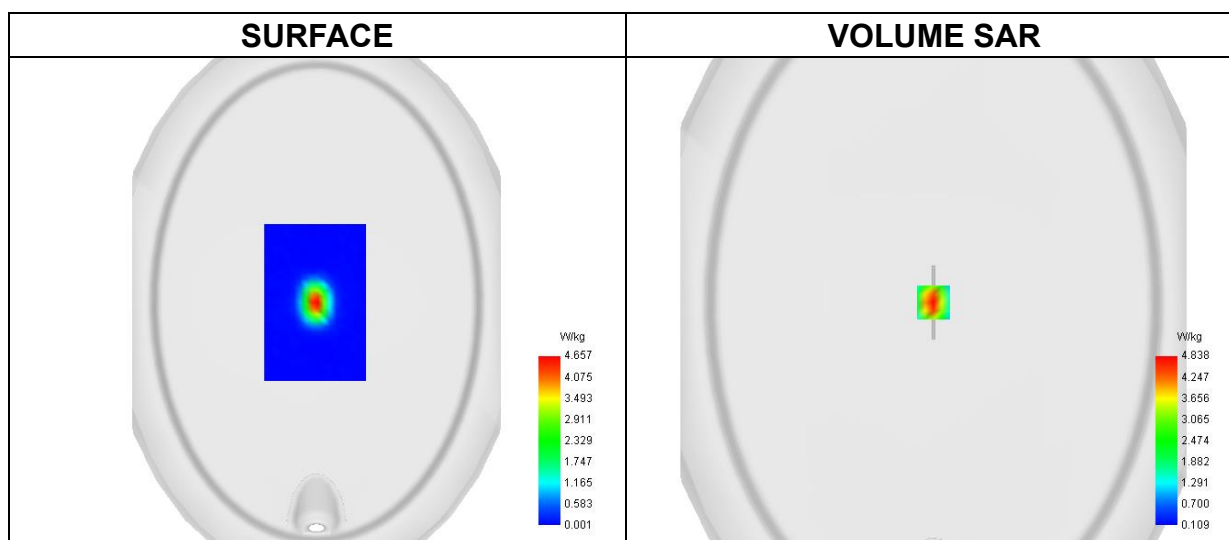
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.13
Conductivity (S/m)	1.38
Probe	SN 04/22 EPGO364
ConvF	1.91
Crest factor:	1:1

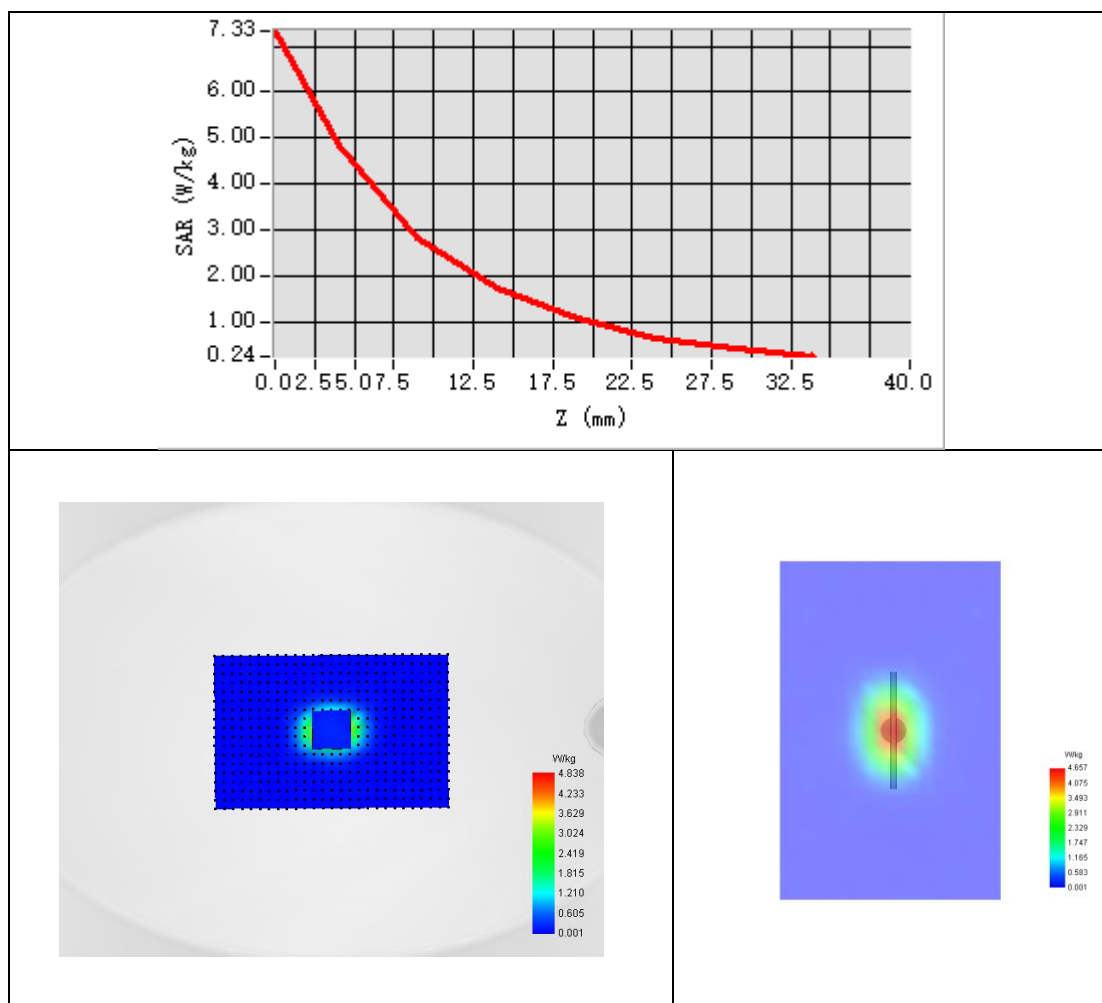


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 7.35 W/kg

SAR 10g (W/Kg)	2.035
SAR 1g (W/Kg)	3.908



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

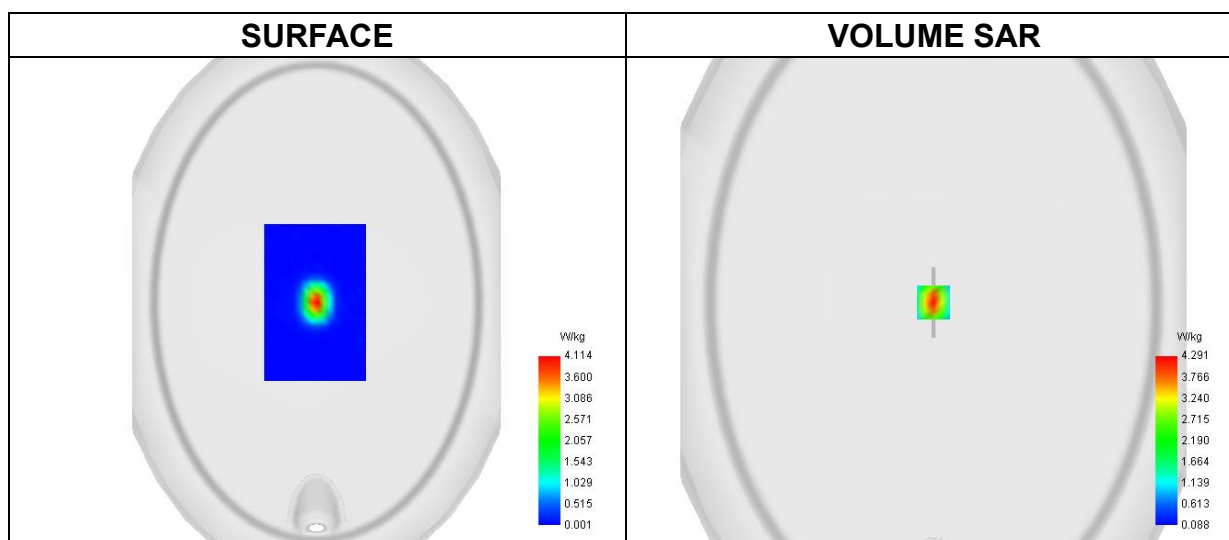
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-07

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.68
Conductivity (S/m)	1.38
Probe	SN 04/22 EPGO364
ConvF	2.24
Crest factor:	1:1

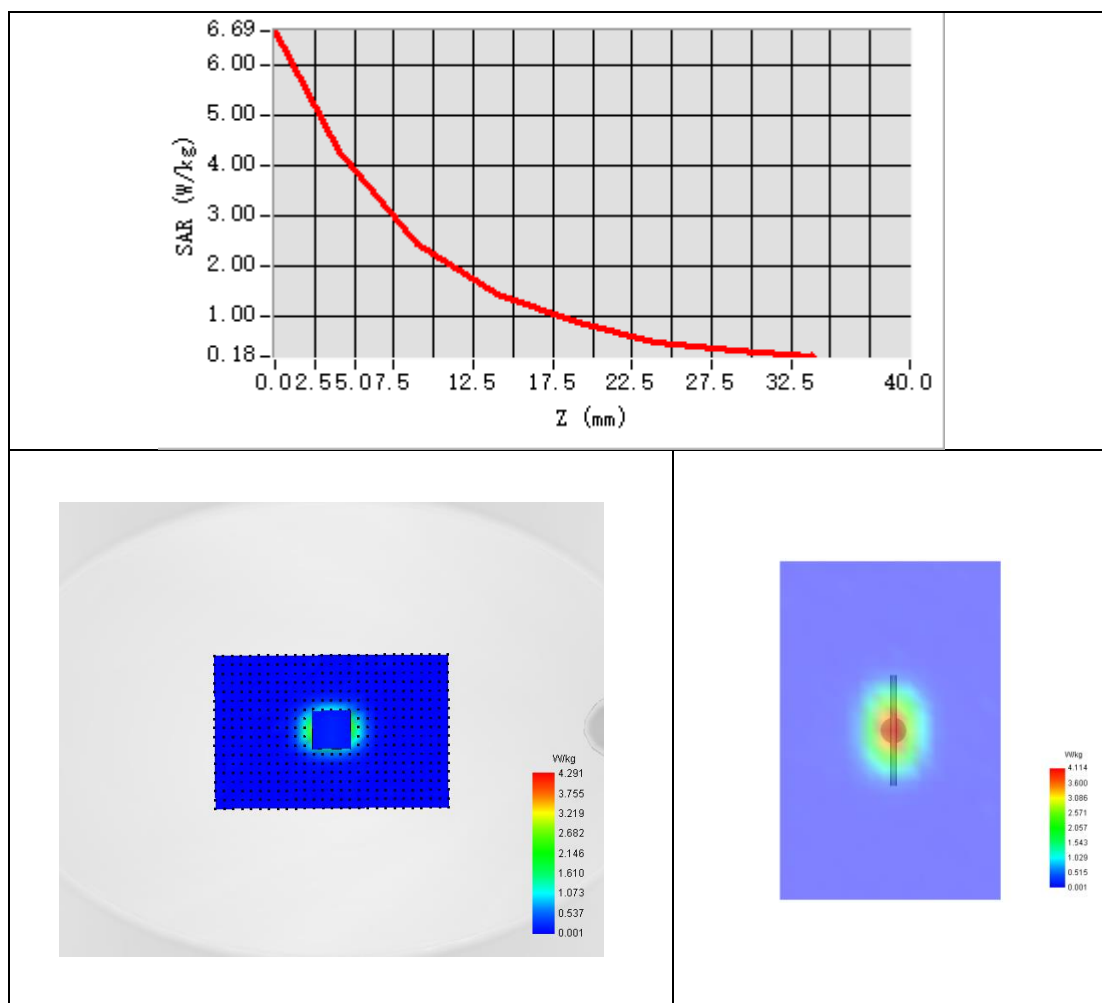


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.65 W/kg

SAR 10g (W/Kg)	2.066
SAR 1g (W/Kg)	4.097



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

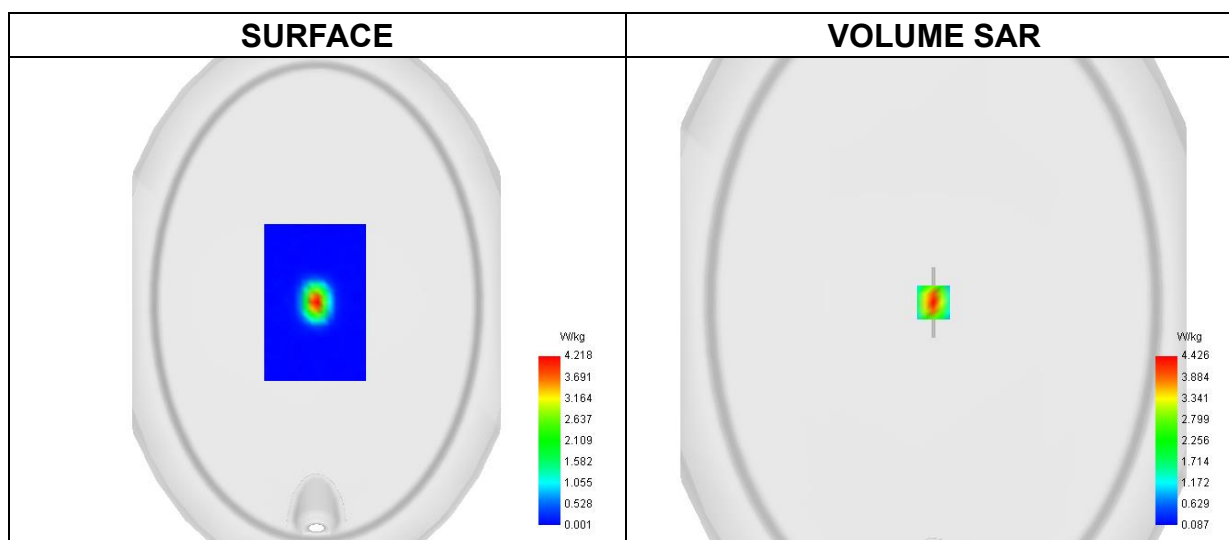
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.76
Conductivity (S/m)	1.41
Probe	SN 04/22 EPGO364
ConvF	2.24
Crest factor:	1:1

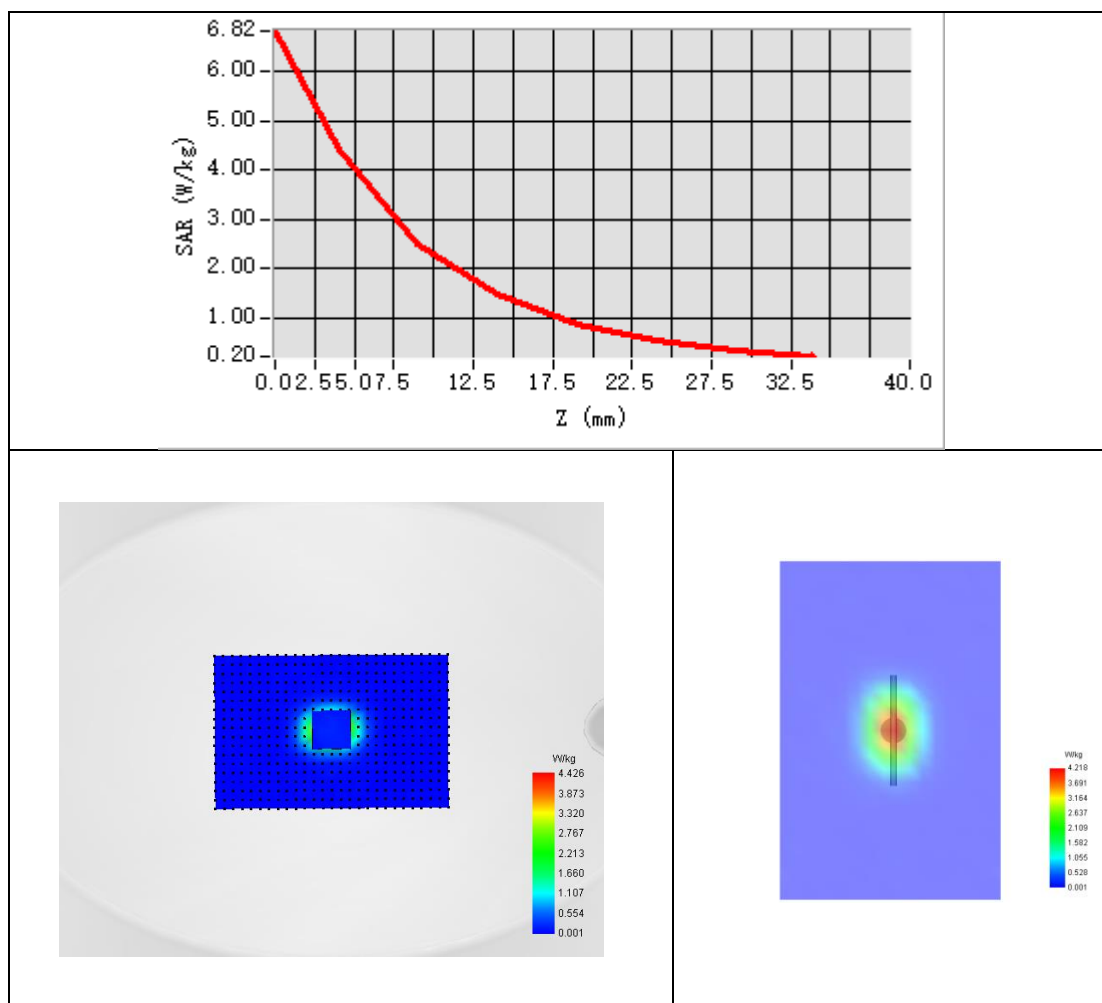


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.84 W/kg

SAR 10g (W/Kg)	2.080
SAR 1g (W/Kg)	4.063



Z Axis Scan





System Performance Check Data (2300MHz)

Type: Phone measurement (Complete)

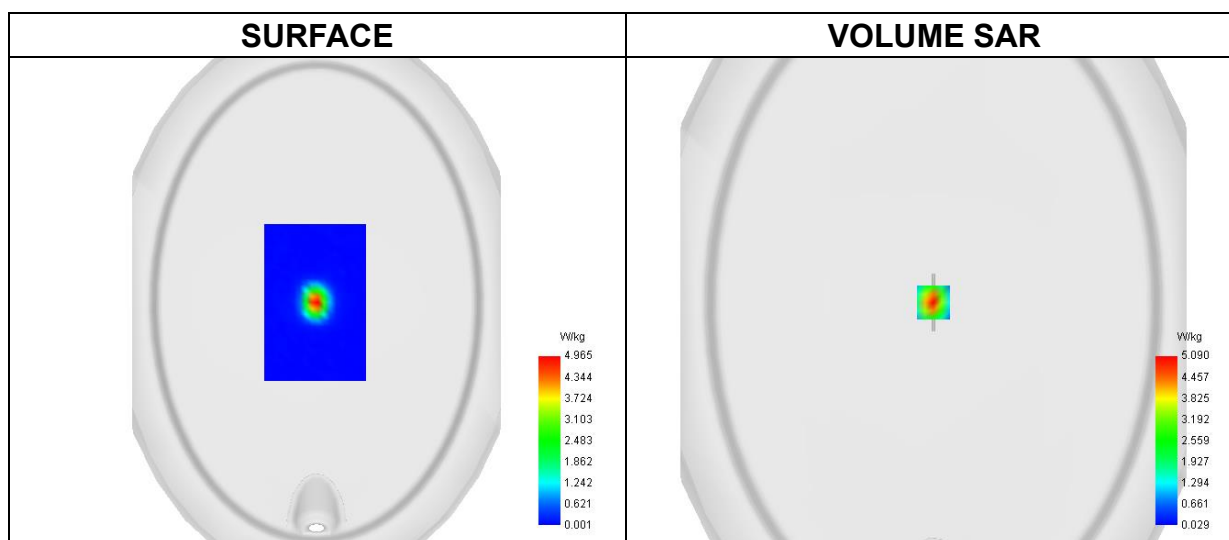
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-06

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Channels	Middle
Signal	CW
Frequency (MHz)	2300.000
Relative permittivity	40.42
Conductivity (S/m)	1.68
Probe	SN 04/22 EPGO364
ConvF	2.31
Crest factor:	1:1

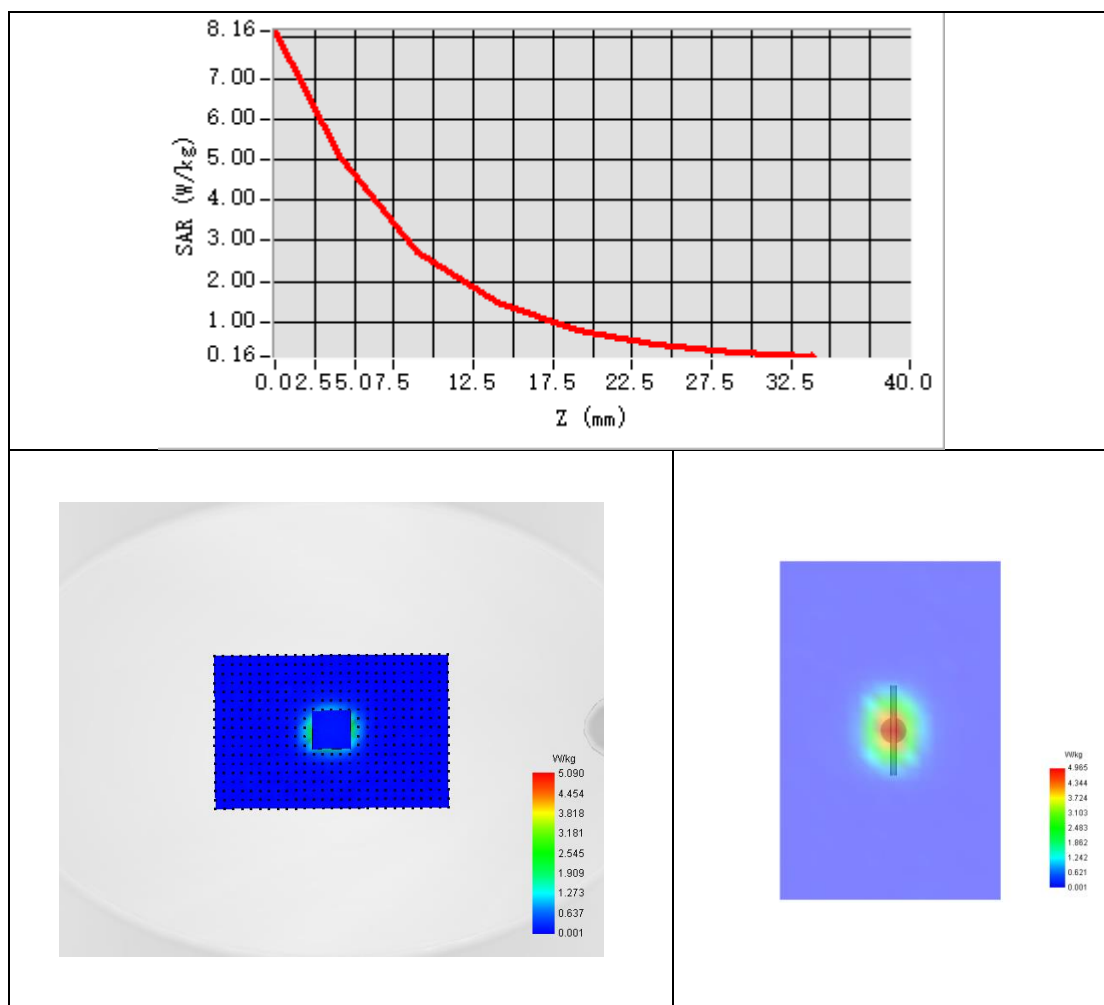


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 8.18 W/kg

SAR 10g (W/Kg)	2.335
SAR 1g (W/Kg)	5.065



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

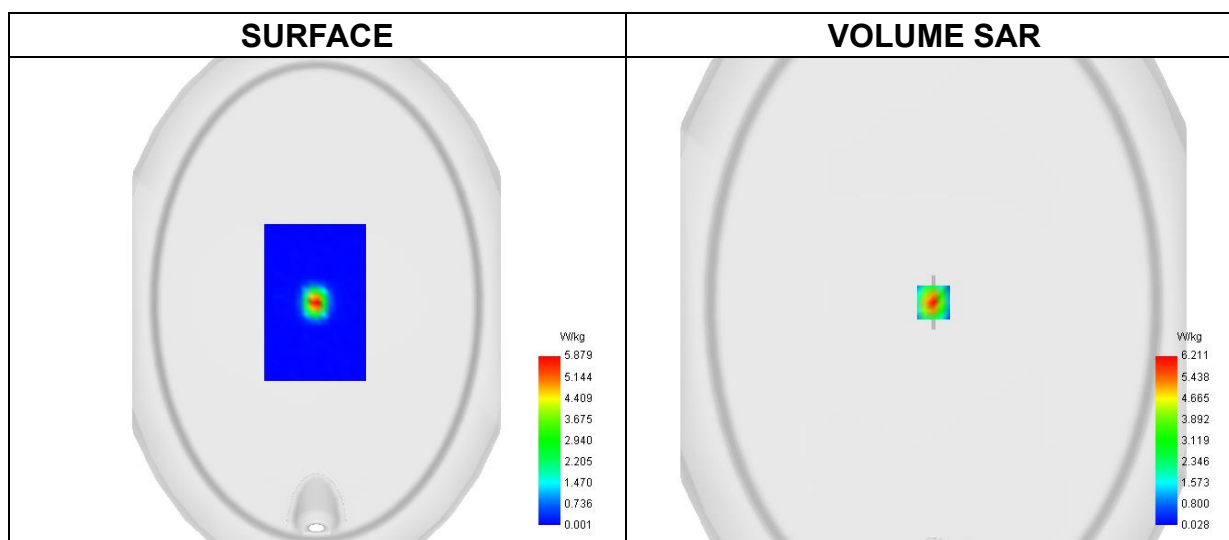
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-08

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.54
Conductivity (S/m)	1.86
Probe	SN 04/22 EPGO364
ConvF	2.30
Crest factor:	1:1

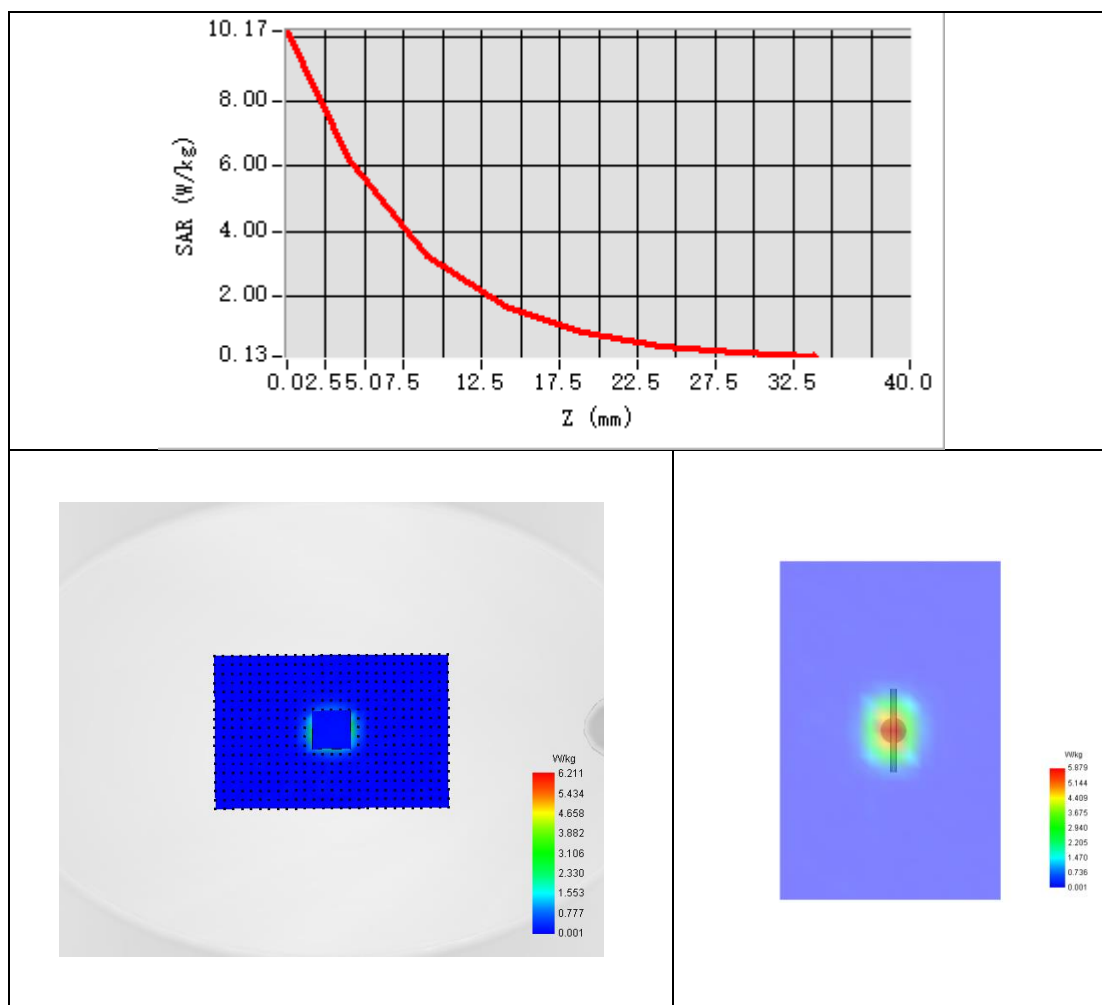


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.19 W/kg

SAR 10g (W/Kg)	2.348
SAR 1g (W/Kg)	5.392



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

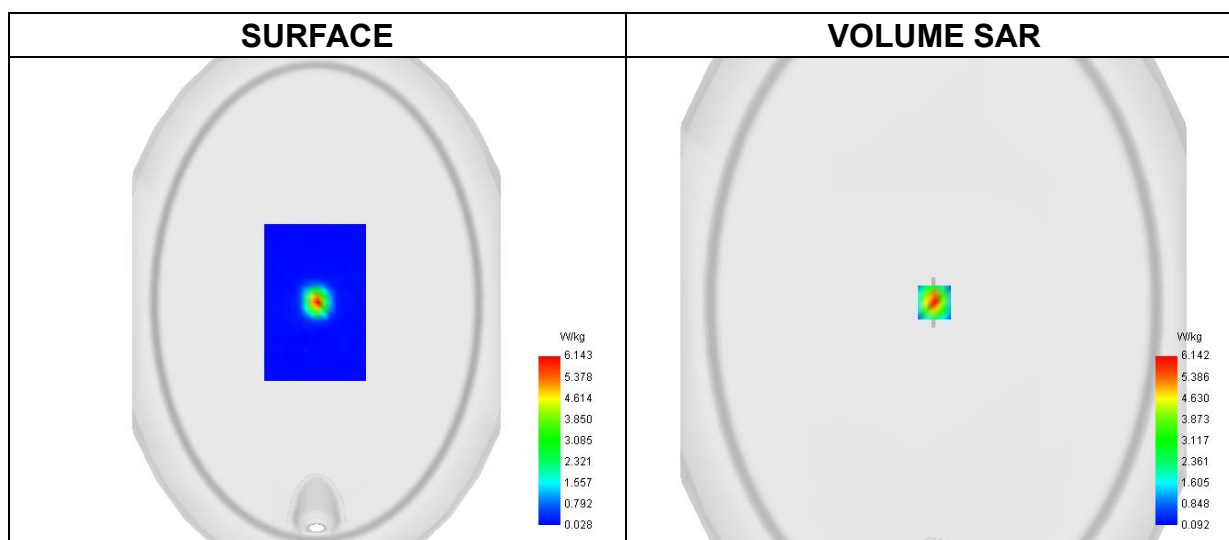
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.75
Conductivity (S/m)	1.93
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1

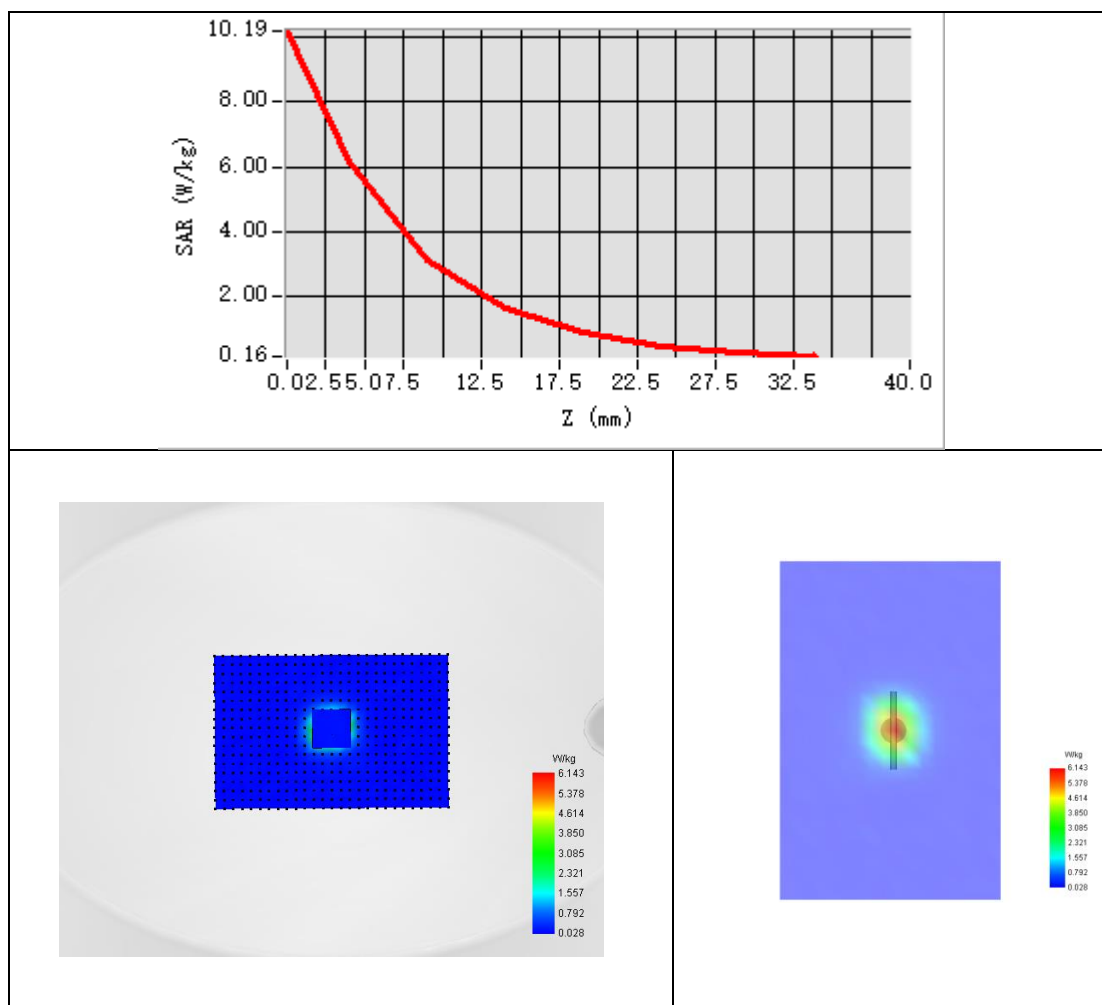


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 10.13 W/kg

SAR 10g (W/Kg)	2.415
SAR 1g (W/Kg)	5.640



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

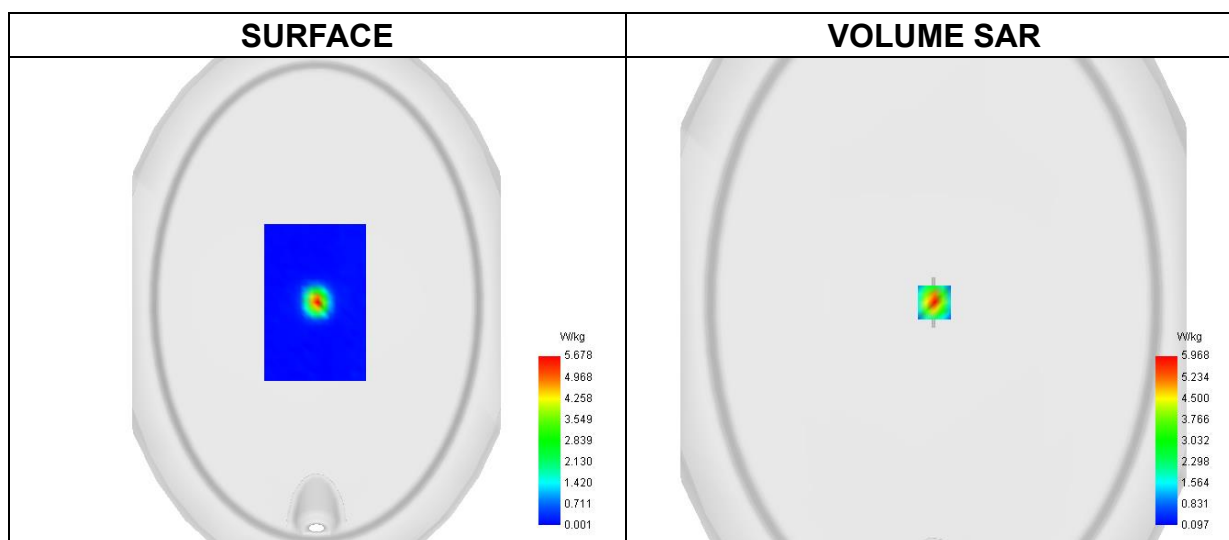
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-10-08

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)	1.92
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1

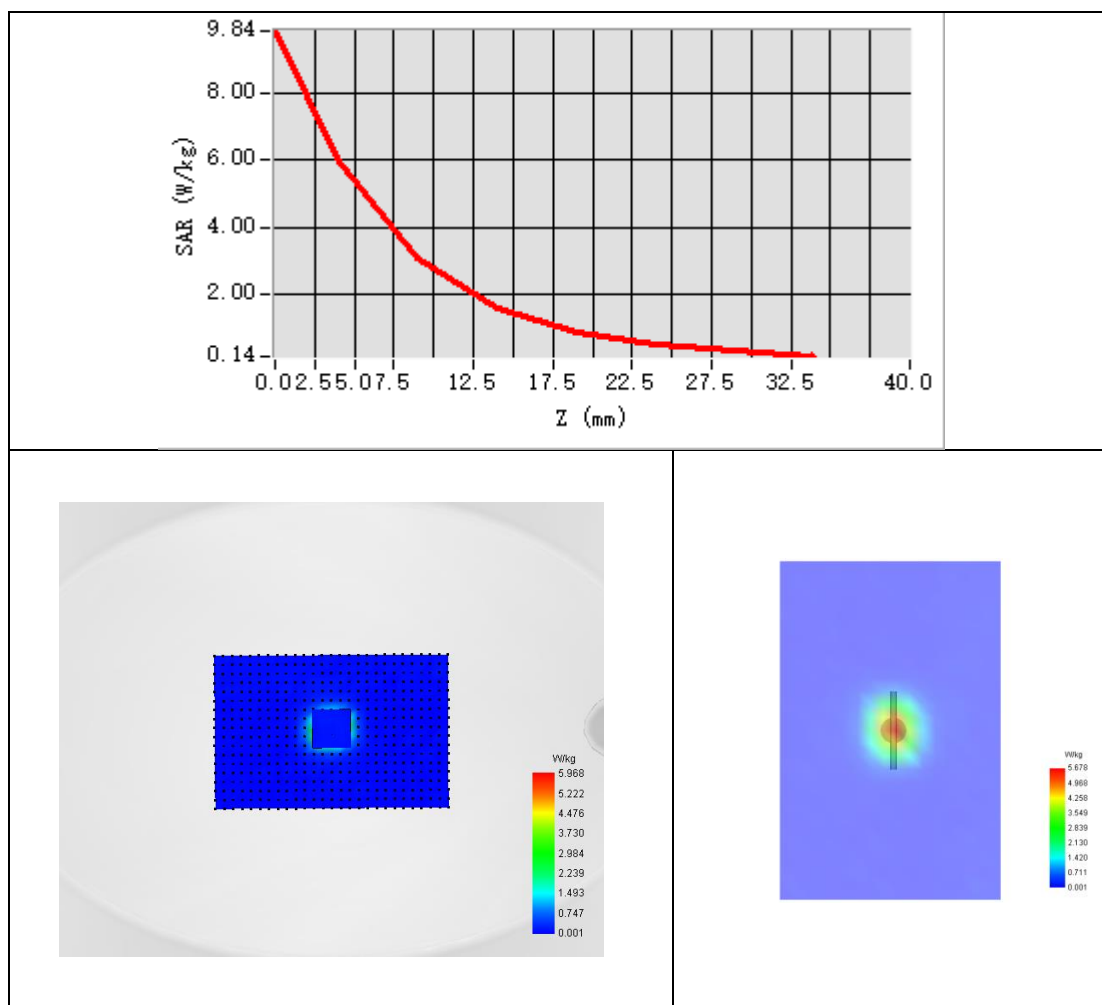


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 9.83 W/kg

SAR 10g (W/Kg)	2.420
SAR 1g (W/Kg)	5.759



Z Axis Scan





System Performance Check Data (3700MHz)

Type: Phone measurement (Complete)

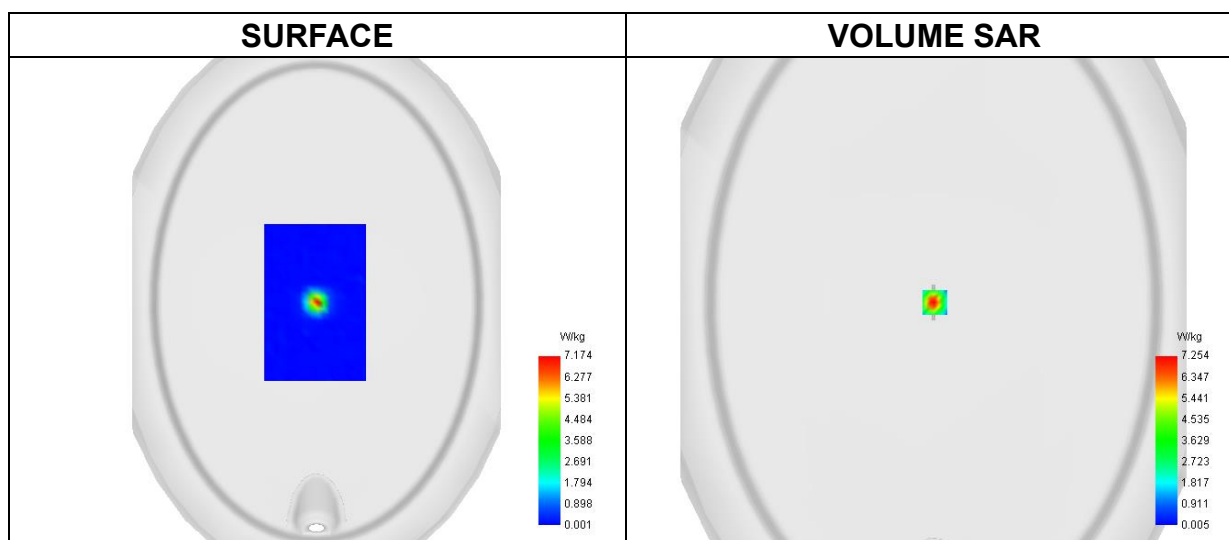
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-10-11

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW3700
Channels	Middle
Signal	CW
Frequency (MHz)	3700.000
Relative permittivity	39.00
Conductivity (S/m)	3.12
Probe	SN 04/22 EPGO364
ConvF	1.84
Crest factor:	1:1

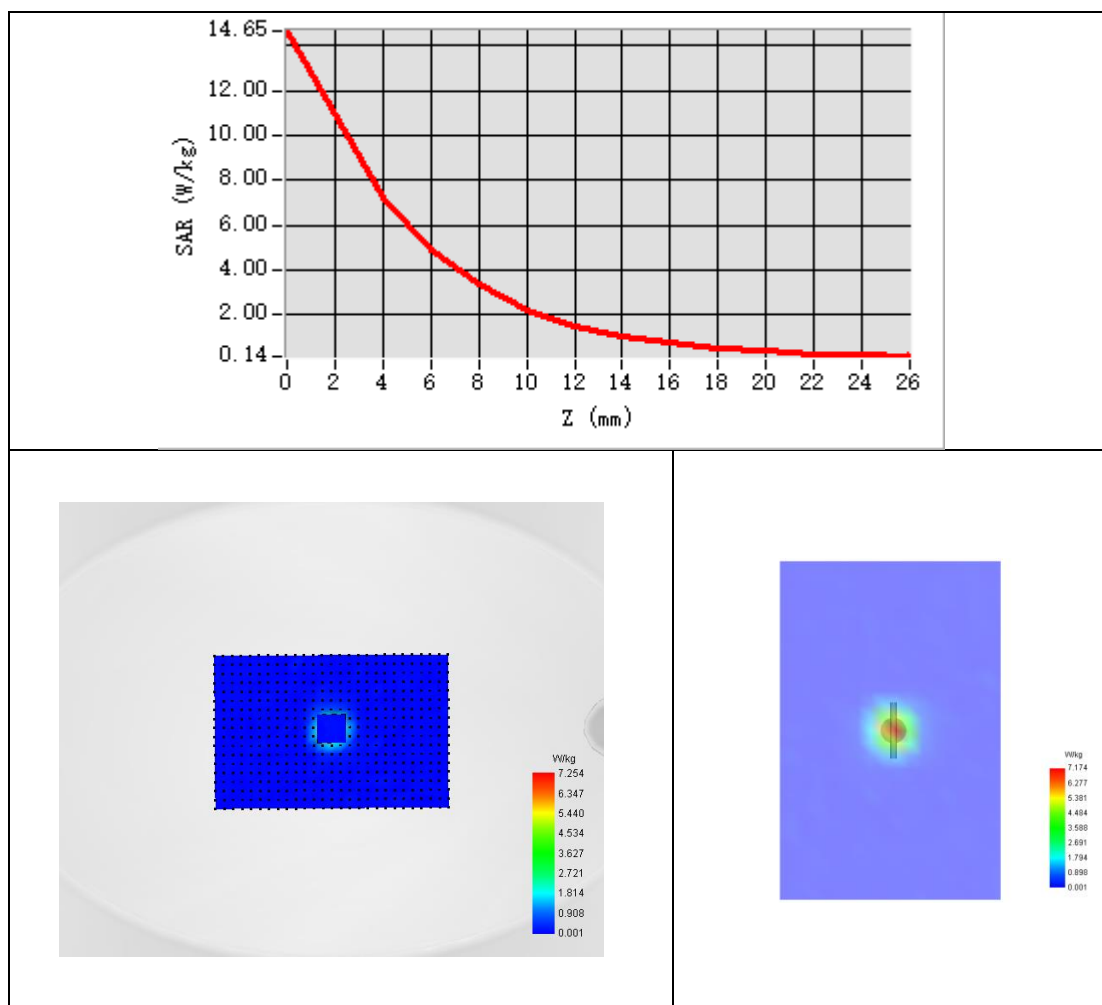


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 14.54 W/kg

SAR 10g (W/Kg)	2.532
SAR 1g (W/Kg)	6.949



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

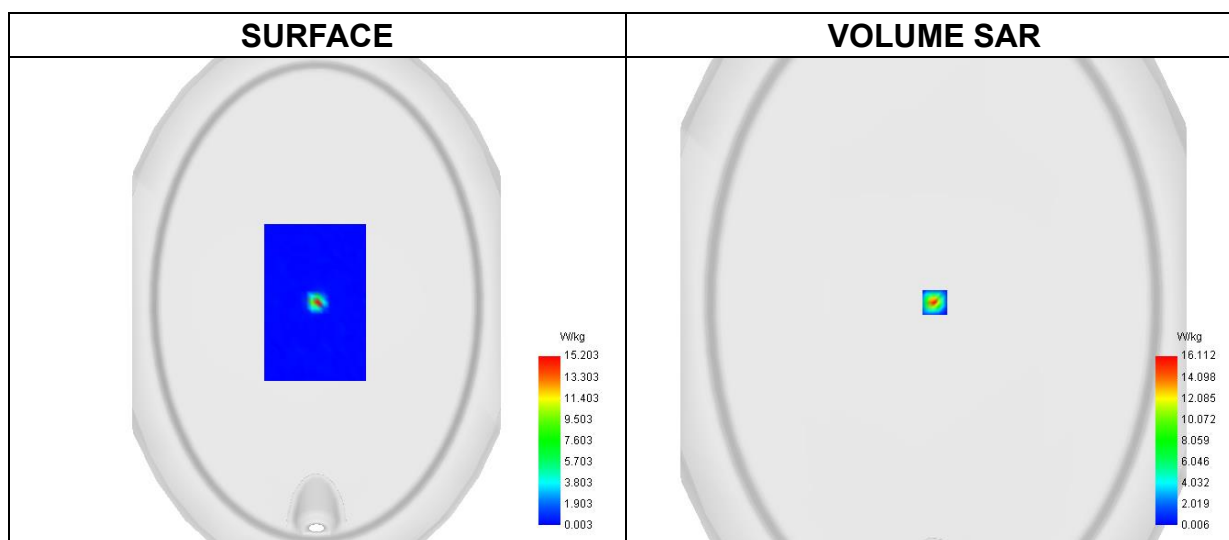
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-10-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	35.82
Conductivity (S/m)	4.65
Probe	SN 04/22 EPGO364
ConvF	1.98
Crest factor:	1:1

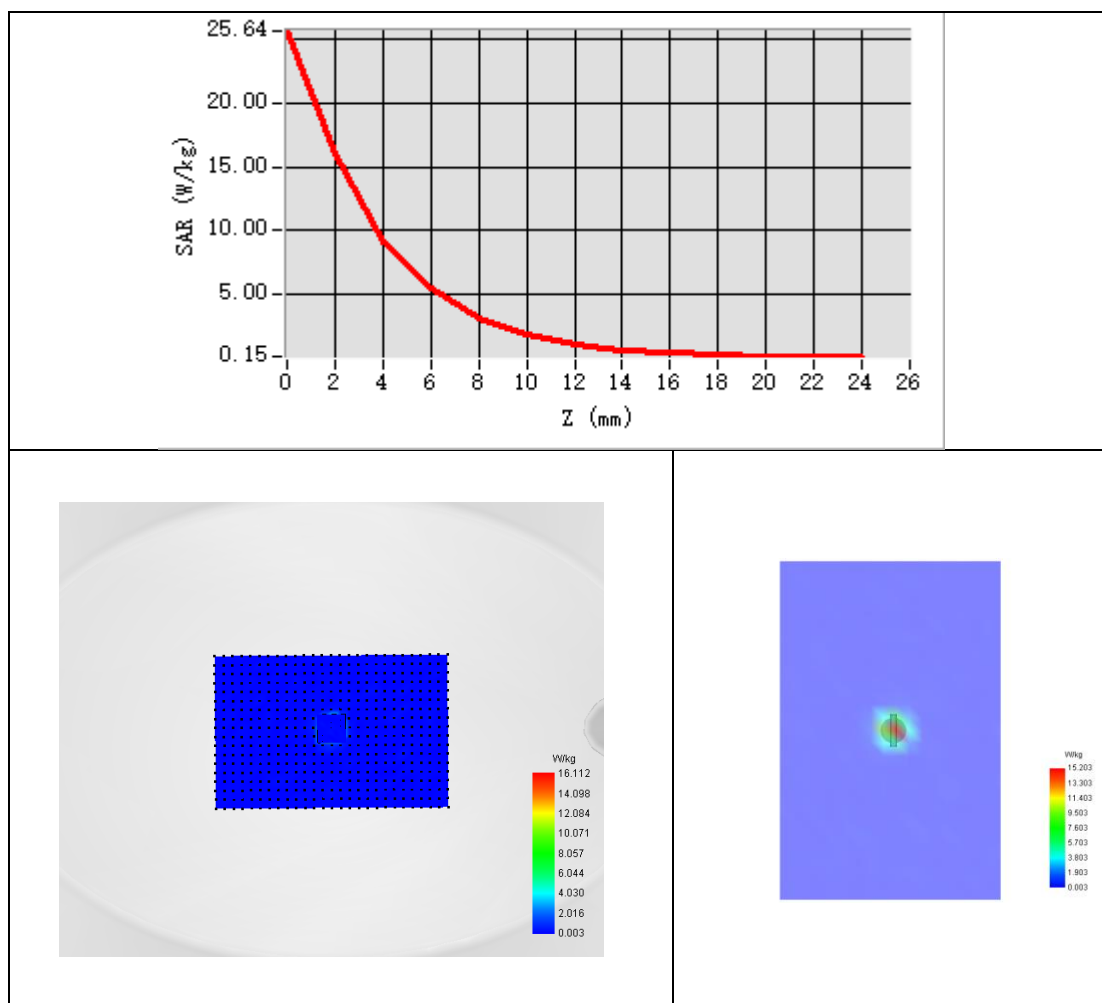


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 26.81 W/kg

SAR 10g (W/Kg)	2.315
SAR 1g (W/Kg)	8.107



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

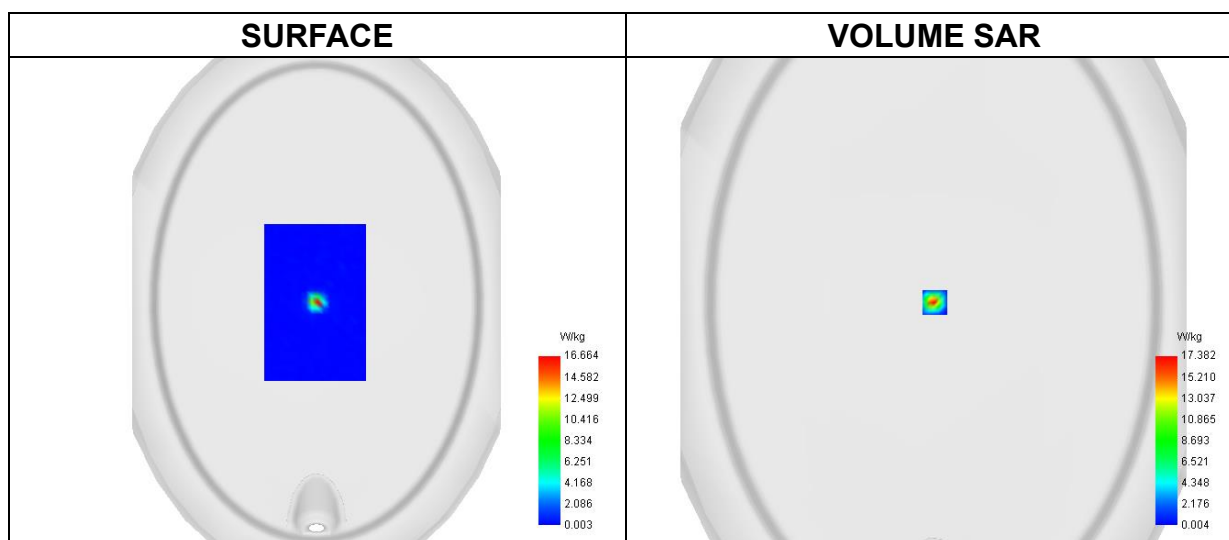
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-10-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.00
Conductivity (S/m)	4.84
Probe	SN 04/22 EPGO364
ConvF	1.83
Crest factor:	1:1

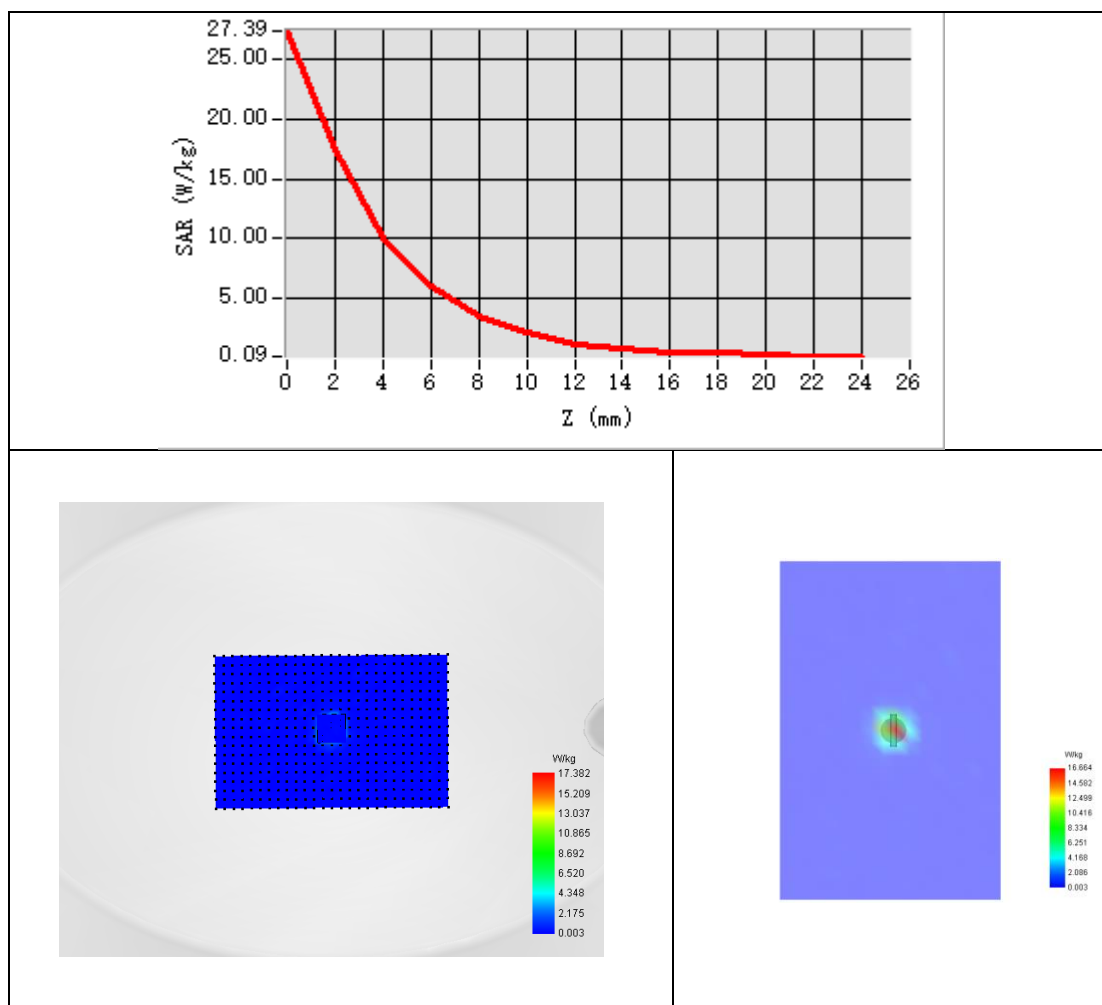


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 29.26 W/kg

SAR 10g (W/Kg)	2.419
SAR 1g (W/Kg)	8.434



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

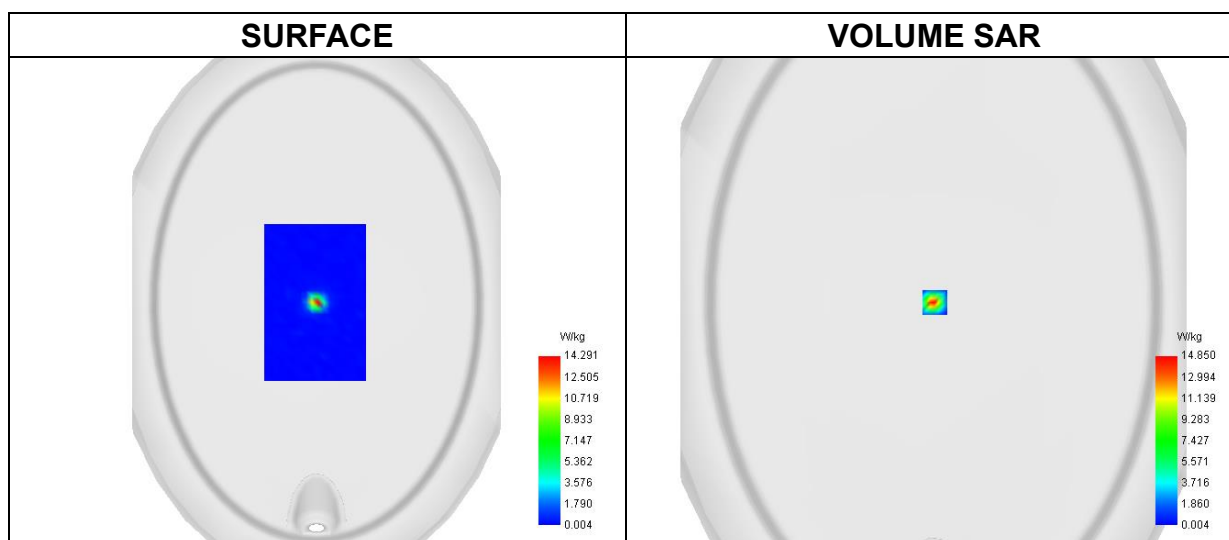
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-10-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	35.86
Conductivity (S/m)	5.12
Probe	SN 04/22 EPGO364
ConvF	1.86
Crest factor:	1:1

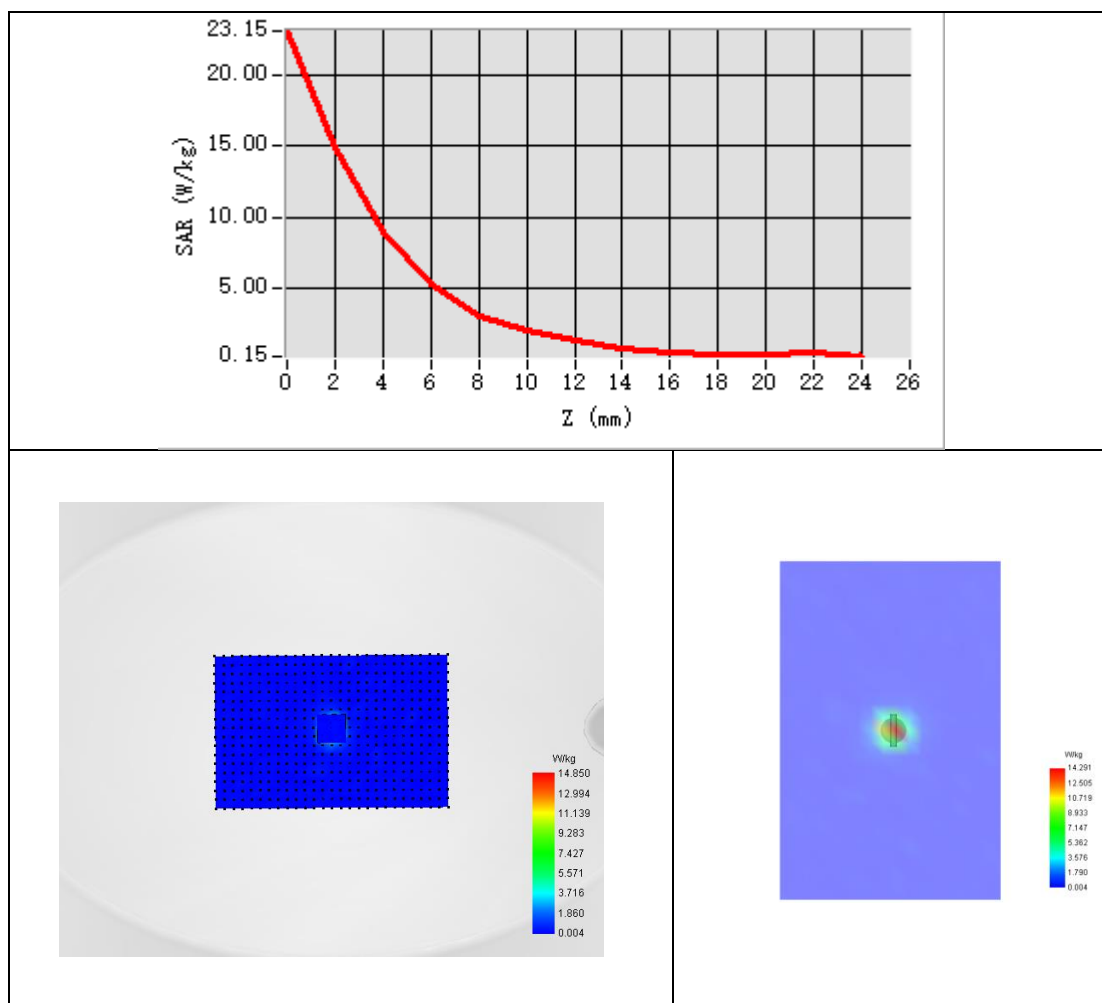


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 23.91 W/kg

SAR 10g (W/Kg)	2.373
SAR 1g (W/Kg)	8.111



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

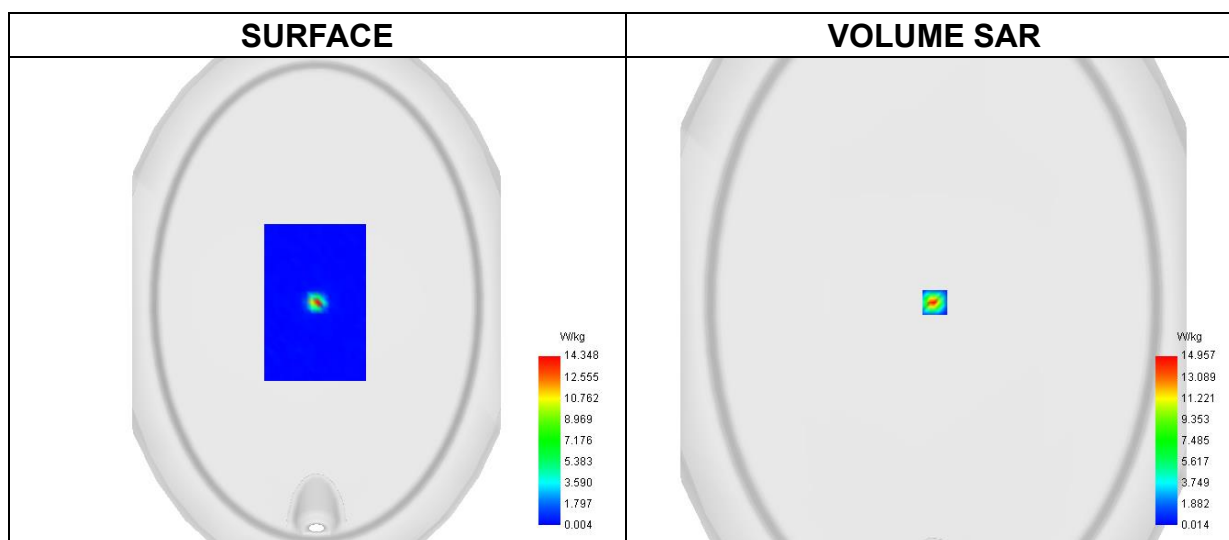
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2024-10-10

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	35.39
Conductivity (S/m)	5.23
Probe	SN 04/22 EPGO364
ConvF	1.71
Crest factor:	1:1

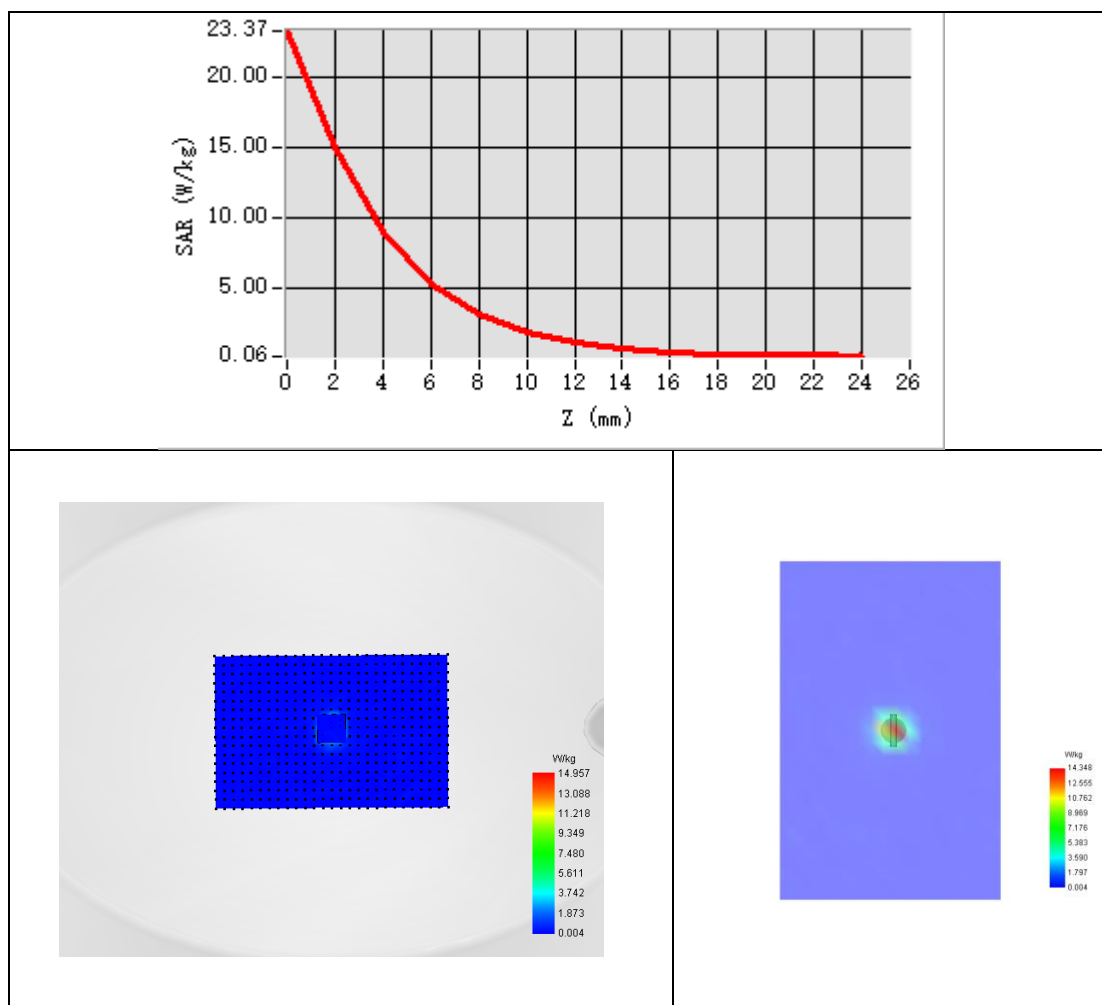


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 24.10 W/kg

SAR 10g (W/Kg)	2.360
SAR 1g (W/Kg)	8.182



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

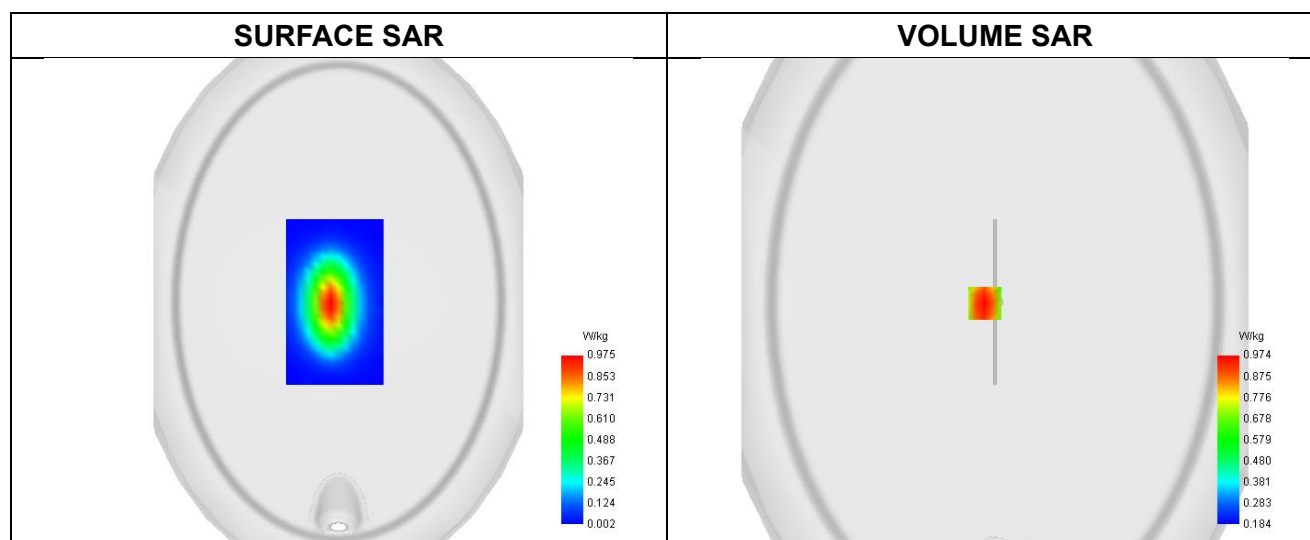
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-12-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.500
Conductivity (S/m)	0.900
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

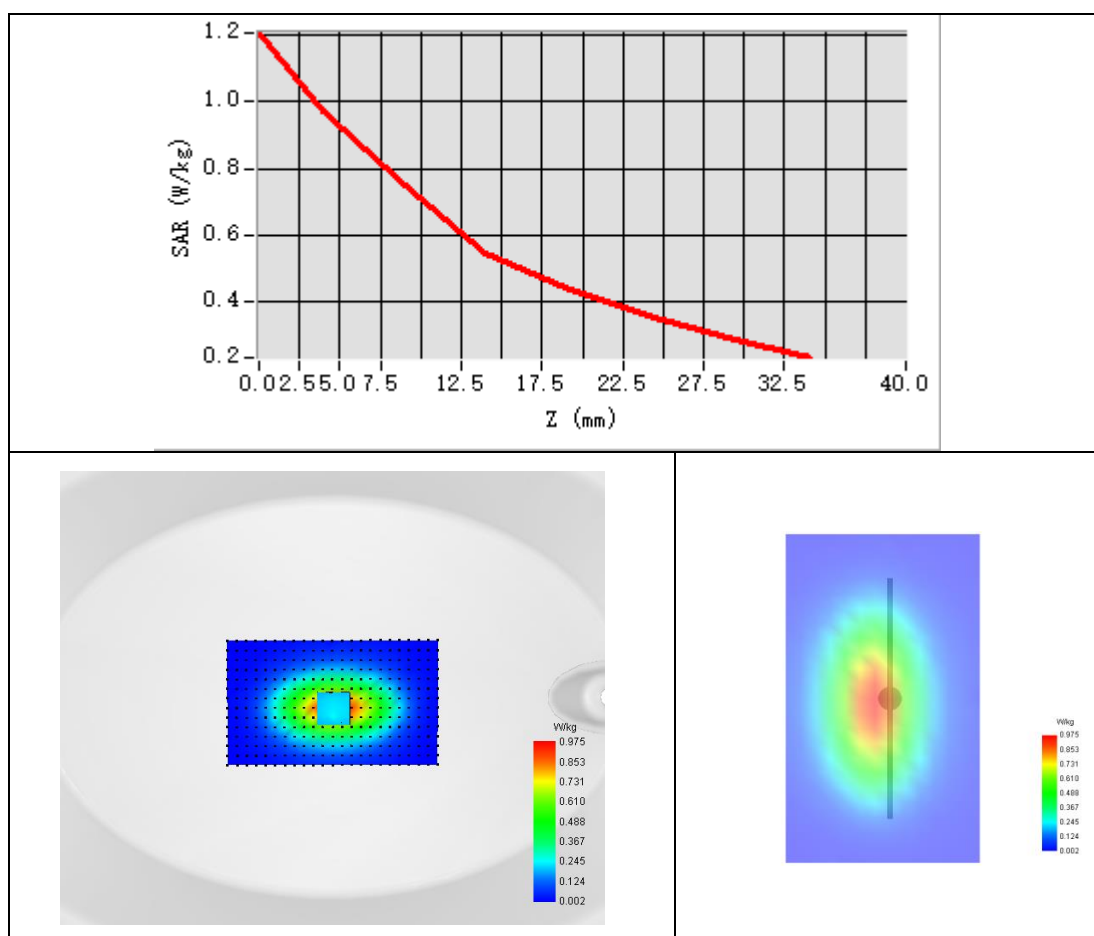


Maximum location: X=-10.00, Y=-1.00 ; SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.613
SAR 1g (W/Kg)	0.924



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

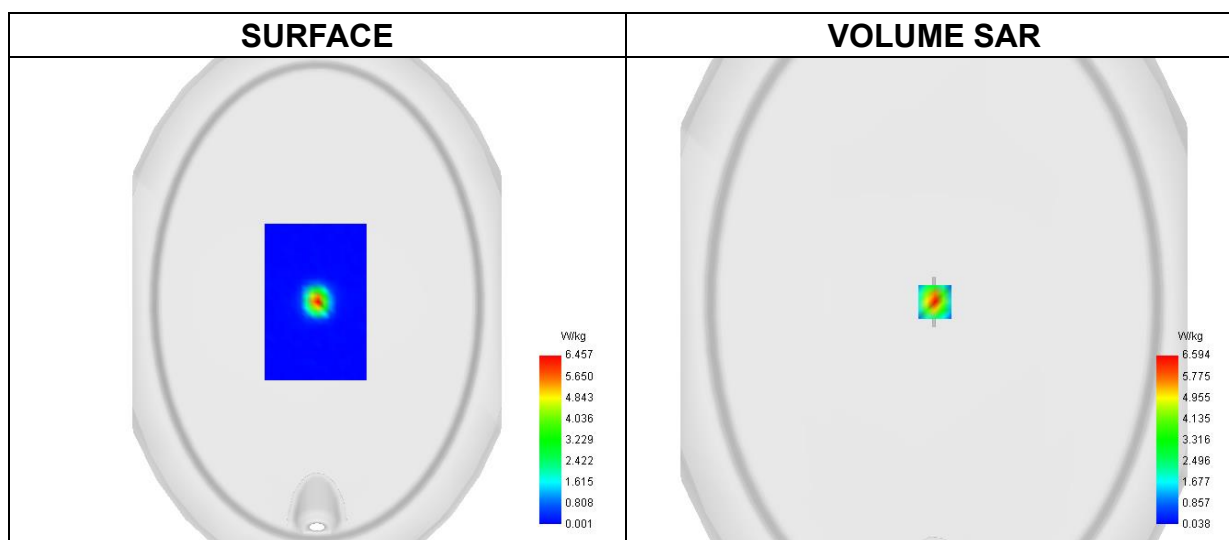
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	40.16
Conductivity (S/m)	1.90
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

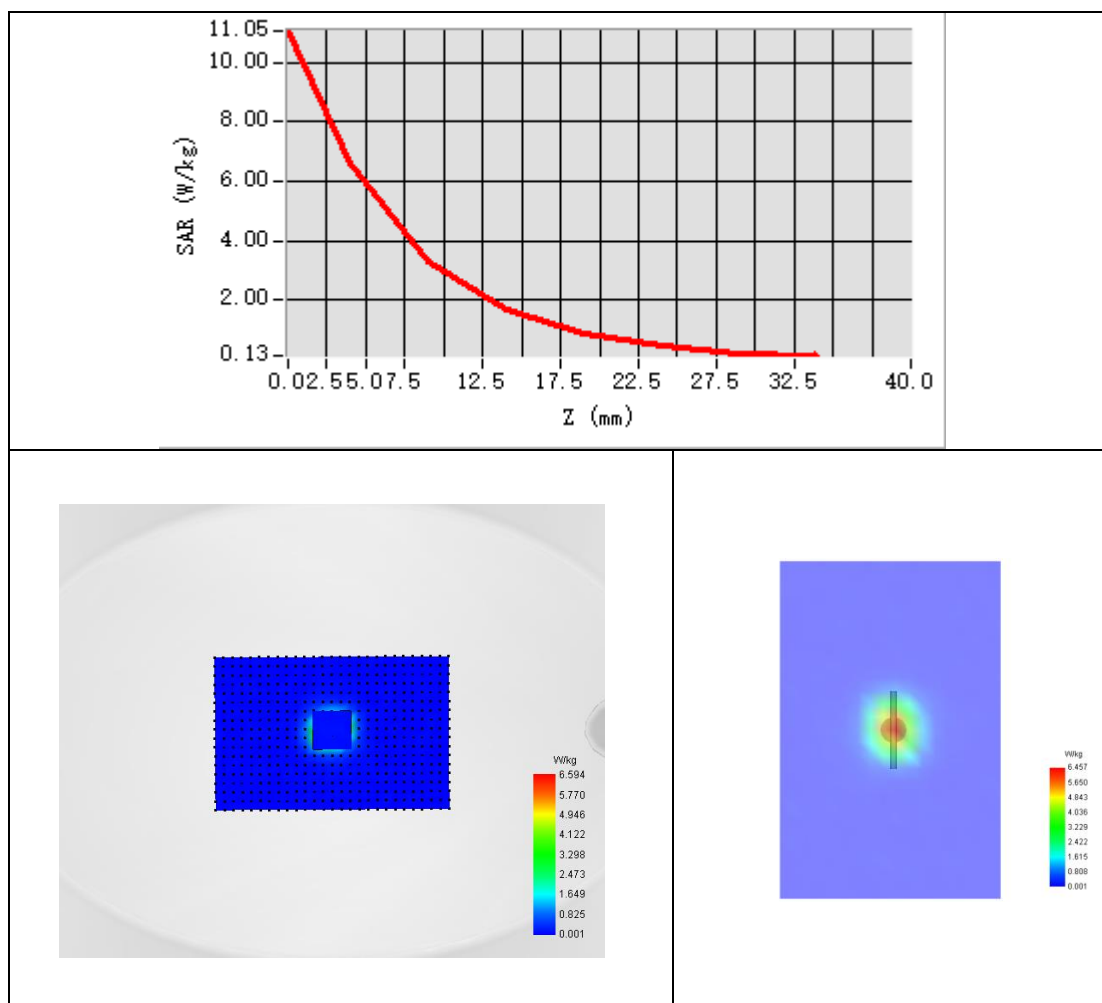


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 11.00 W/kg

SAR 10g (W/Kg)	2.269
SAR 1g (W/Kg)	5.813



Z Axis Scan



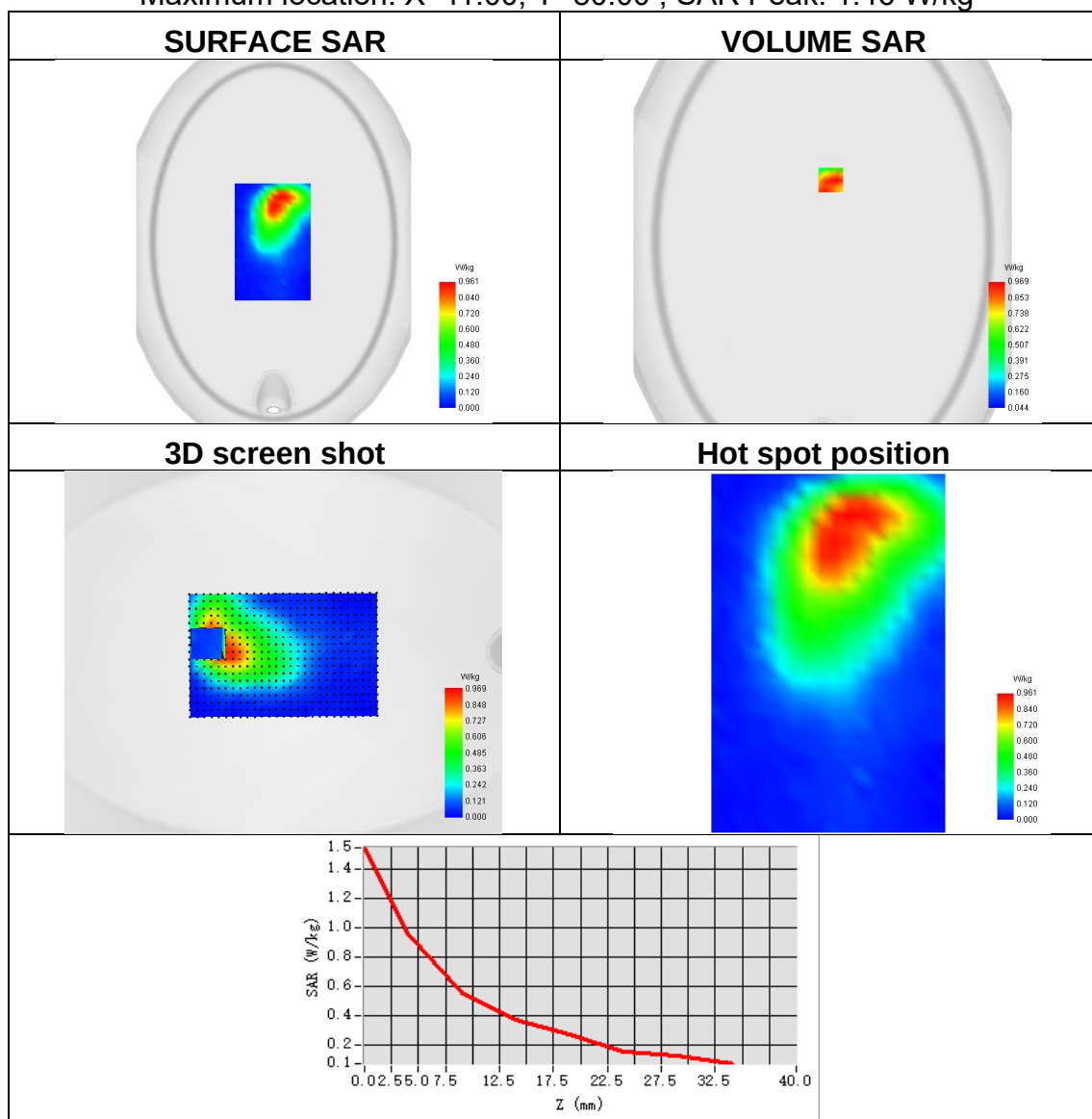


Appendix B. SAR Test Plots

Plot 1:

Test Date	2024-10-01
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	848.8
SAR 10g (W/Kg)	0.445
SAR 1g (W/Kg)	0.929
ConvF	1.70
Relative permittivity	41.26
Conductivity (S/m)	0.93

Maximum location: X=11.00, Y=80.00 ; SAR Peak: 1.46 W/kg

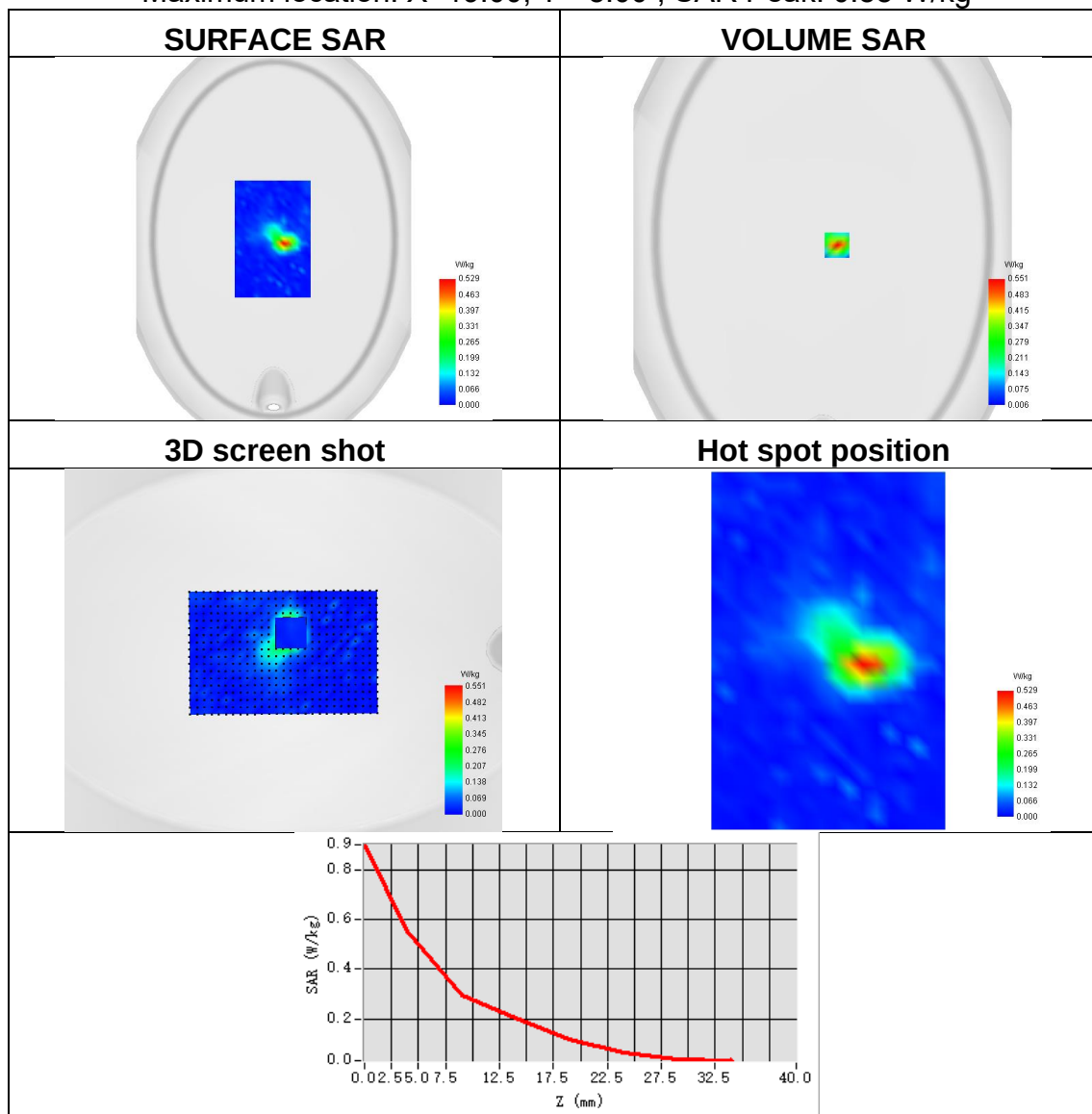




Plot 2:

Test Date	2024-10-02
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)	0.253
SAR 1g (W/Kg)	0.511
ConvF	2.24
Relative permittivity	40.76
Conductivity (S/m)	1.41

Maximum location: X=19.00, Y=-8.00 ; SAR Peak: 0.88 W/kg

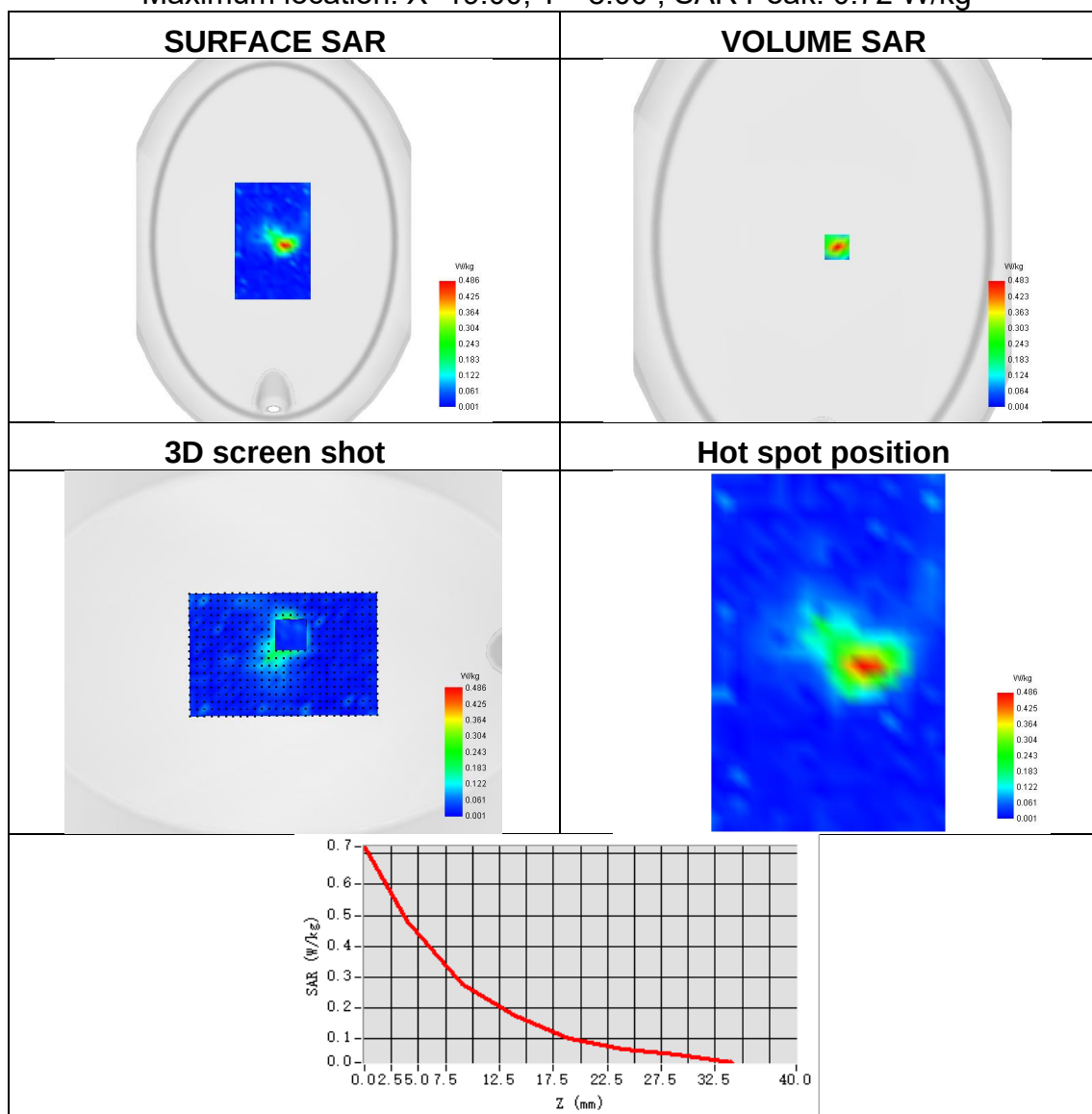




Plot 3:

Test Date	2024-10-02
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	WCDMA
Frequency	1907.6
SAR 10g (W/Kg)	0.226
SAR 1g (W/Kg)	0.438
ConvF	2.24
Relative permittivity	40.76
Conductivity (S/m)	1.41

Maximum location: X=19.00, Y=-8.00 ; SAR Peak: 0.72 W/kg

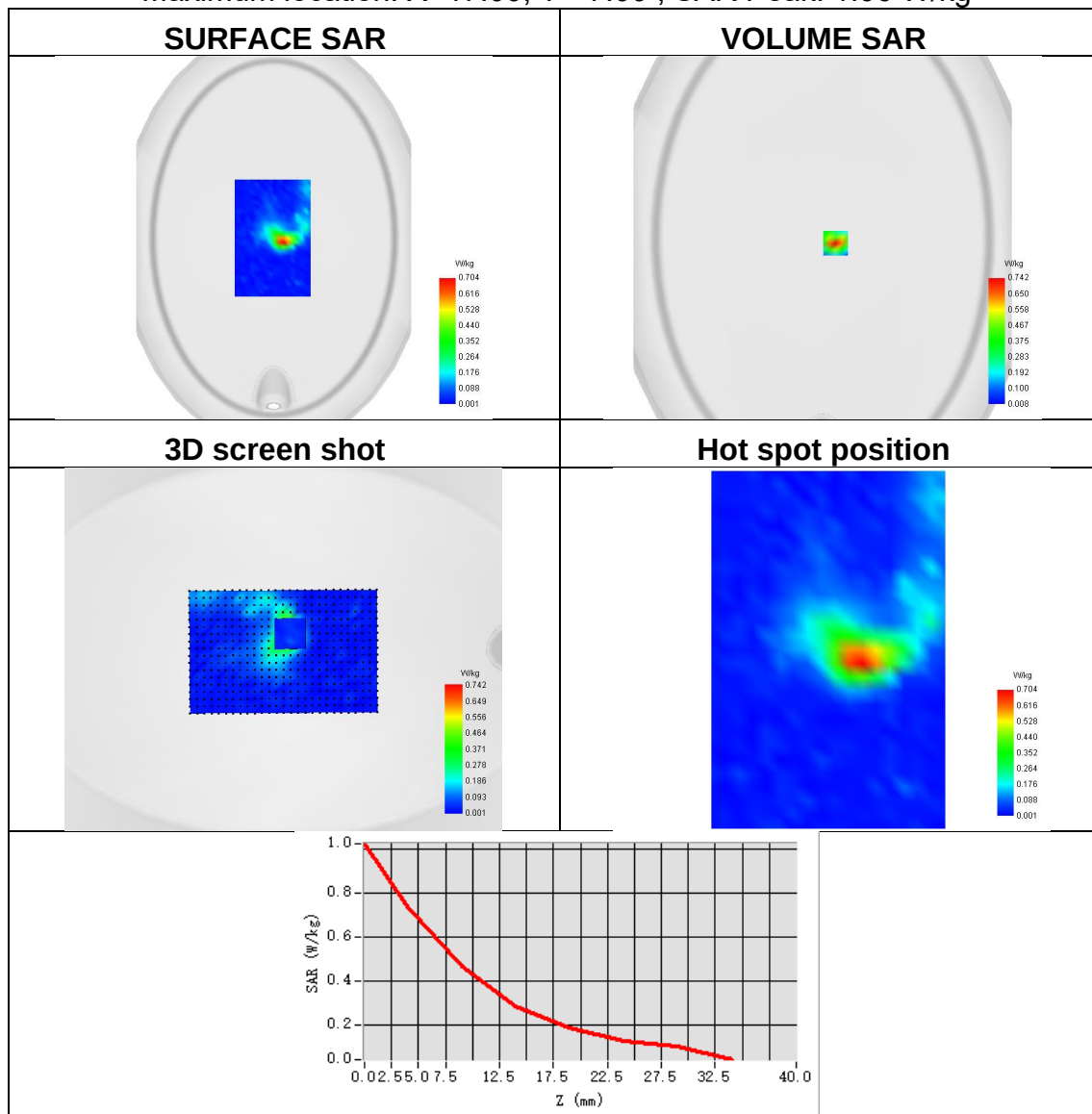




Plot 4:

Test Date	2024-10-05
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	WCDMA
Frequency	1752.4
SAR 10g (W/Kg)	0.354
SAR 1g (W/Kg)	0.663
ConvF	1.91
Relative permittivity	40.13
Conductivity (S/m)	1.38

Maximum location: X=17.00, Y=-7.00 ; SAR Peak: 1.06 W/kg

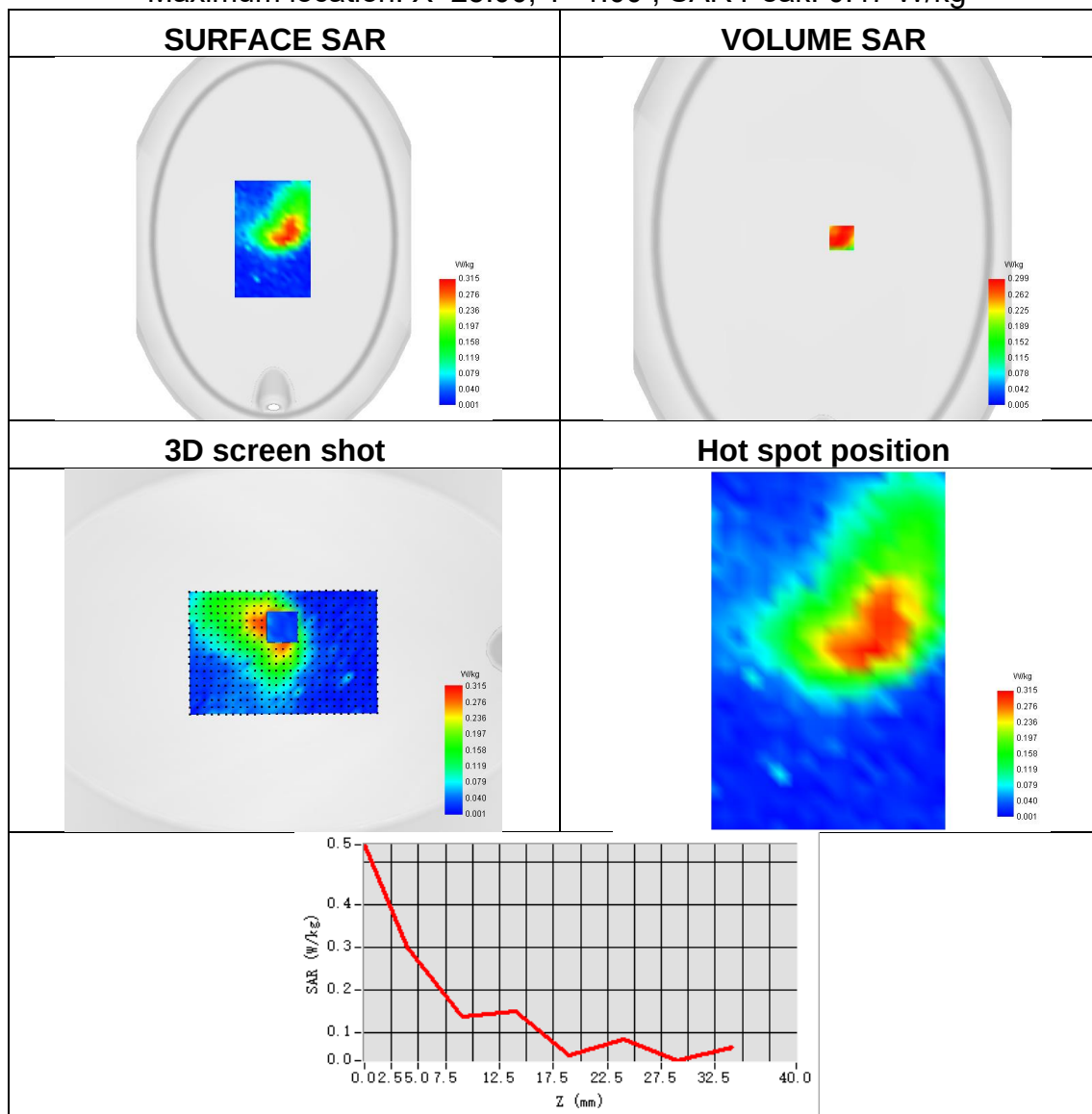




Plot 5:

Test Date	2024-10-01
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)	0.148
SAR 1g (W/Kg)	0.296
ConvF	1.70
Relative permittivity	41.26
Conductivity (S/m)	0.93

Maximum location: X=25.00, Y=1.00 ; SAR Peak: 0.47 W/kg





Plot 6:

Test Date	2024-10-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	BC0 (US Cellular)
Signal	CDMA (CDMA2000)
Frequency	824.7
SAR 10g (W/Kg)	0.108
SAR 1g (W/Kg)	0.280
ConvF	1.70
Relative permittivity	41.60
Conductivity (S/m)	0.88

Maximum location: X=10.00, Y=24.00 ; SAR Peak: 0.64 W/kg

