



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	0	Front	5	Full	133322	683	23.10	24.00	1.230	-0.07	0.310	0.381
	LTE Band 71	20M	QPSK	50	0	Front	5	Full	133322	683	22.29	23.00	1.178	-0.01	0.179	0.211
30	LTE Band 71	20M	QPSK	1	0	Back	5	Full	133322	683	23.10	24.00	1.230	0.02	0.679	0.835
	LTE Band 71	20M	QPSK	50	50	Back	5	Full	133322	683	22.29	23.00	1.178	-0.05	0.435	0.512
	LTE Band 71	20M	QPSK	100	0	Back	5	Full	133322	683	22.20	23.00	1.202	-0.14	0.434	0.522
	LTE Band 71	20M	QPSK	1	0	Left Side	5	Full	133322	683	23.10	24.00	1.230	0.01	0.298	0.367
	LTE Band 71	20M	QPSK	50	50	Left Side	5	Full	133322	683	22.29	23.00	1.178	0.03	0.167	0.197
	LTE Band 71	20M	QPSK	1	0	Right Side	5	Full	133322	683	23.10	24.00	1.230	0.06	0.176	0.217
	LTE Band 71	20M	QPSK	50	50	Right Side	5	Full	133322	683	22.29	23.00	1.178	0.05	0.087	0.102
	LTE Band 71	20M	QPSK	1	0	Bottom Side	5	Full	133322	683	23.10	24.00	1.230	0.01	0.347	0.427
	LTE Band 71	20M	QPSK	50	50	Bottom Side	5	Full	133322	683	22.29	23.00	1.178	0.02	0.228	0.268
	LTE Band 12	10M	QPSK	1	49	Front	5	Full	23095	707.5	22.97	24.00	1.268	0.01	0.417	0.529
	LTE Band 12	10M	QPSK	25	12	Front	5	Full	23095	707.5	22.03	23.00	1.250	0.02	0.336	0.420
31	LTE Band 12	10M	QPSK	1	49	Back	5	Full	23095	707.5	22.97	24.00	1.268	0.05	0.677	0.858
	LTE Band 12	10M	QPSK	25	12	Back	5	Full	23095	707.5	22.03	23.00	1.250	0.07	0.570	0.713
	LTE Band 12	10M	QPSK	50	0	Back	5	Full	23095	707.5	22.03	23.00	1.250	0.02	0.586	0.733
	LTE Band 12	10M	QPSK	1	49	Left Side	5	Full	23095	707.5	22.97	24.00	1.268	0.02	0.430	0.545
	LTE Band 12	10M	QPSK	25	12	Left Side	5	Full	23095	707.5	22.03	23.00	1.250	0.03	0.247	0.309
	LTE Band 12	10M	QPSK	1	49	Right Side	5	Full	23095	707.5	22.97	24.00	1.268	0.01	0.226	0.286
	LTE Band 12	10M	QPSK	25	12	Right Side	5	Full	23095	707.5	22.03	23.00	1.250	-0.02	0.136	0.170
	LTE Band 12	10M	QPSK	1	49	Bottom Side	5	Full	23095	707.5	22.97	24.00	1.268	0.01	0.370	0.469
	LTE Band 12	10M	QPSK	25	12	Bottom Side	5	Full	23095	707.5	22.03	23.00	1.250	0.05	0.280	0.350
	LTE Band 13	10M	QPSK	1	0	Front	5	Hotspot On	23230	782	22.11	23.00	1.227	-0.04	0.499	0.612
	LTE Band 13	10M	QPSK	25	0	Front	5	Hotspot On	23230	782	22.12	23.00	1.225	0.01	0.389	0.476
32	LTE Band 13	10M	QPSK	1	0	Back	5	Hotspot On	23230	782	22.11	23.00	1.227	-0.06	0.975	1.197
	LTE Band 13	10M	QPSK	25	0	Back	5	Hotspot On	23230	782	22.12	23.00	1.225	0.09	0.753	0.922
	LTE Band 13	10M	QPSK	50	0	Back	5	Hotspot On	23230	782	22.19	23.00	1.205	0.17	0.696	0.839
	LTE Band 13	10M	QPSK	1	0	Left Side	5	Hotspot On	23230	782	22.11	23.00	1.227	0.08	0.490	0.601
	LTE Band 13	10M	QPSK	25	0	Left Side	5	Hotspot On	23230	782	22.12	23.00	1.225	0.04	0.413	0.506
	LTE Band 13	10M	QPSK	1	0	Right Side	5	Hotspot On	23230	782	22.11	23.00	1.227	0	0.251	0.308
	LTE Band 13	10M	QPSK	25	0	Right Side	5	Hotspot On	23230	782	22.12	23.00	1.225	0.01	0.224	0.274
	LTE Band 13	10M	QPSK	1	0	Bottom Side	5	Hotspot On	23230	782	22.11	23.00	1.227	0.04	0.409	0.502
	LTE Band 13	10M	QPSK	25	0	Bottom Side	5	Hotspot On	23230	782	22.12	23.00	1.225	0.18	0.352	0.431
	LTE Band 26	15M	QPSK	1	0	Front	5	Hotspot On	26865	831.5	22.26	23.00	1.186	0.01	0.504	0.598
	LTE Band 26	15M	QPSK	36	20	Front	5	Hotspot On	26865	831.5	22.03	23.00	1.250	0.02	0.381	0.476
33	LTE Band 26	15M	QPSK	1	0	Back	5	Hotspot On	26865	831.5	22.26	23.00	1.186	-0.01	1.060	1.257
	LTE Band 26	15M	QPSK	36	20	Back	5	Hotspot On	26865	831.5	22.03	23.00	1.250	0.06	0.808	1.010
	LTE Band 26	15M	QPSK	75	0	Back	5	Hotspot On	26865	831.5	21.99	23.00	1.262	0.08	0.696	0.878
	LTE Band 26	15M	QPSK	1	0	Left Side	5	Hotspot On	26865	831.5	22.26	23.00	1.186	0.08	0.478	0.567
	LTE Band 26	15M	QPSK	36	20	Left Side	5	Hotspot On	26865	831.5	22.03	23.00	1.250	0.02	0.385	0.481
	LTE Band 26	15M	QPSK	1	0	Right Side	5	Hotspot On	26865	831.5	22.26	23.00	1.186	0.16	0.228	0.270
	LTE Band 26	15M	QPSK	36	20	Right Side	5	Hotspot On	26865	831.5	22.03	23.00	1.250	0.02	0.162	0.203
	LTE Band 26	15M	QPSK	1	0	Bottom Side	5	Hotspot On	26865	831.5	22.26	23.00	1.186	0.09	0.492	0.583
	LTE Band 26	15M	QPSK	36	20	Bottom Side	5	Hotspot On	26865	831.5	22.03	23.00	1.250	0.14	0.393	0.491



FCC SAR Test Report

Report No. : FA920101

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66	20M	QPSK	1	99	Front	5	Hotspot On	132072	1720	16.35	17.00	1.161	0.08	0.709	0.823
	LTE Band 66	20M	QPSK	1	99	Front	5	Hotspot On	132322	1745	16.26	17.00	1.186	0.01	0.687	0.815
	LTE Band 66	20M	QPSK	1	99	Front	5	Hotspot On	132572	1770	16.22	17.00	1.197	0.13	0.664	0.795
	LTE Band 66	20M	QPSK	50	50	Front	5	Hotspot On	132072	1720	16.37	17.00	1.156	0.01	0.708	0.819
	LTE Band 66	20M	QPSK	50	50	Front	5	Hotspot On	132322	1745	16.25	17.00	1.189	0.02	0.676	0.803
	LTE Band 66	20M	QPSK	50	50	Front	5	Hotspot On	132572	1770	16.27	17.00	1.183	0.12	0.671	0.794
	LTE Band 66	20M	QPSK	100	0	Front	5	Hotspot On	132072	1720	16.30	17.00	1.175	0.04	0.704	0.827
	LTE Band 66	20M	QPSK	1	99	Back	5	Hotspot On	132072	1720	16.35	17.00	1.161	-0.06	1.100	1.278
	LTE Band 66	20M	QPSK	1	99	Back	5	Hotspot On	132322	1745	16.26	17.00	1.186	0.01	0.917	1.087
	LTE Band 66	20M	QPSK	1	99	Back	5	Hotspot On	132572	1770	16.22	17.00	1.197	0.12	1.020	1.221
	LTE Band 66	20M	QPSK	50	50	Back	5	Hotspot On	132072	1720	16.37	17.00	1.156	0.05	1.040	1.202
	LTE Band 66	20M	QPSK	50	50	Back	5	Hotspot On	132322	1745	16.25	17.00	1.189	-0.07	1.050	1.248
	LTE Band 66	20M	QPSK	50	50	Back	5	Hotspot On	132572	1770	16.27	17.00	1.183	0.03	1.020	1.207
	LTE Band 66	20M	QPSK	100	0	Back	5	Hotspot On	132072	1720	16.30	17.00	1.175	0.1	1.030	1.210
	LTE Band 66	20M	QPSK	1	99	Left Side	5	Hotspot On	132072	1720	15.14	15.50	1.086	0.02	0.057	0.061
	LTE Band 66	20M	QPSK	50	50	Left Side	5	Hotspot On	132072	1720	14.68	15.50	1.208	0.14	0.058	0.070
	LTE Band 66	20M	QPSK	1	99	Right Side	5	Hotspot On	132072	1720	15.14	15.50	1.086	0.05	0.043	0.047
	LTE Band 66	20M	QPSK	50	50	Right Side	5	Hotspot On	132072	1720	14.68	15.50	1.208	0.06	0.043	0.052
	LTE Band 66	20M	QPSK	1	99	Bottom Side	5	Hotspot On	132072	1720	15.14	15.50	1.086	0.05	1.050	1.141
	LTE Band 66	20M	QPSK	1	99	Bottom Side	5	Hotspot On	132322	1745	15.07	15.50	1.104	0.06	0.970	1.071
	LTE Band 66	20M	QPSK	1	99	Bottom Side	5	Hotspot On	132572	1770	14.98	15.50	1.127	0.19	1.070	1.206
	LTE Band 66	20M	QPSK	50	50	Bottom Side	5	Hotspot On	132072	1720	14.68	15.50	1.208	-0.1	1.050	1.268
	LTE Band 66	20M	QPSK	50	50	Bottom Side	5	Hotspot On	132322	1745	14.73	15.50	1.194	0.06	1.090	1.301
34	LTE Band 66	20M	QPSK	50	50	Bottom Side	5	Hotspot On	132572	1770	14.22	15.50	1.343	-0.11	1.070	1.437
	LTE Band 66	20M	QPSK	100	0	Bottom Side	5	Hotspot On	132072	1720	14.55	15.50	1.245	-0.18	1.070	1.332
	LTE Band 25	20M	QPSK	1	99	Front	5	Hotspot On	26590	1905	16.60	17.00	1.096	0.05	0.641	0.703
	LTE Band 25	20M	QPSK	50	24	Front	5	Hotspot On	26590	1905	16.42	17.00	1.143	0.12	0.628	0.718
	LTE Band 25	20M	QPSK	1	99	Back	5	Hotspot On	26590	1905	16.60	17.00	1.096	0.07	1.120	1.228
	LTE Band 25	20M	QPSK	1	99	Back	5	Hotspot On	26140	1860	16.45	17.00	1.135	0.03	0.944	1.071
	LTE Band 25	20M	QPSK	1	99	Back	5	Hotspot On	26340	1880	16.50	17.00	1.122	-0.07	0.886	0.994
	LTE Band 25	20M	QPSK	50	24	Back	5	Hotspot On	26590	1905	16.42	17.00	1.143	0.1	1.070	1.223
	LTE Band 25	20M	QPSK	50	24	Back	5	Hotspot On	26140	1860	16.27	17.00	1.183	0.06	0.847	1.002
	LTE Band 25	20M	QPSK	50	24	Back	5	Hotspot On	26340	1880	16.31	17.00	1.172	0.1	0.949	1.112
35	LTE Band 25	20M	QPSK	100	0	Back	5	Hotspot On	26590	1905	16.24	17.00	1.191	0.06	1.070	1.275
	LTE Band 25	20M	QPSK	1	99	Left Side	5	Hotspot On	26590	1905	15.20	15.50	1.072	-0.06	0.036	0.039
	LTE Band 25	20M	QPSK	50	24	Left Side	5	Hotspot On	26590	1905	14.76	15.50	1.186	0.02	0.022	0.026
	LTE Band 25	20M	QPSK	1	99	Right Side	5	Hotspot On	26590	1905	15.20	15.50	1.072	0.09	0.032	0.034
	LTE Band 25	20M	QPSK	50	24	Right Side	5	Hotspot On	26590	1905	14.76	15.50	1.186	0.02	0.031	0.037
	LTE Band 25	20M	QPSK	1	99	Bottom Side	5	Hotspot On	26590	1905	15.20	15.50	1.072	-0.17	1.060	1.136
	LTE Band 25	20M	QPSK	1	99	Bottom Side	5	Hotspot On	26140	1860	15.19	15.50	1.074	0.03	0.900	0.967
	LTE Band 25	20M	QPSK	1	99	Bottom Side	5	Hotspot On	26340	1880	14.99	15.50	1.125	0.02	0.952	1.071
	LTE Band 25	20M	QPSK	50	24	Bottom Side	5	Hotspot On	26590	1905	14.76	15.50	1.186	0.06	1.010	1.198
	LTE Band 25	20M	QPSK	50	24	Bottom Side	5	Hotspot On	26140	1860	14.73	15.50	1.194	-0.13	0.783	0.935
	LTE Band 25	20M	QPSK	50	24	Bottom Side	5	Hotspot On	26340	1880	14.62	15.50	1.225	-0.13	0.877	1.074
	LTE Band 25	20M	QPSK	100	0	Bottom Side	5	Hotspot On	26590	1905	14.60	15.50	1.230	-0.17	1.000	1.230



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5	Hotspot On	21350	2560	19.81	20.50	1.172	0.11	0.629	0.737
	LTE Band 7	20M	QPSK	50	0	Front	5	Hotspot On	21350	2560	19.87	20.50	1.156	0.04	0.638	0.738
	LTE Band 7	20M	QPSK	1	0	Back	5	Hotspot On	21350	2560	19.81	20.50	1.172	0.01	1.060	1.243
	LTE Band 7	20M	QPSK	1	0	Back	5	Hotspot On	20850	2510	19.58	20.50	1.236	-0.01	1.030	1.273
36	LTE Band 7	20M	QPSK	1	0	Back	5	Hotspot On	21100	2535	19.75	20.50	1.189	-0.03	1.110	1.319
	LTE Band 7	20M	QPSK	50	0	Back	5	Hotspot On	21350	2560	19.87	20.50	1.156	0.06	1.080	1.249
	LTE Band 7	20M	QPSK	50	0	Back	5	Hotspot On	20850	2510	19.65	20.50	1.216	0.13	1.060	1.289
	LTE Band 7	20M	QPSK	50	0	Back	5	Hotspot On	21100	2535	19.66	20.50	1.213	-0.01	1.040	1.262
	LTE Band 7	20M	QPSK	100	0	Back	5	Hotspot On	21350	2560	19.75	20.50	1.189	0.01	1.100	1.307
	LTE Band 7	20M	QPSK	1	0	Left Side	5	Hotspot On	21350	2560	19.81	20.50	1.172	0.12	0.066	0.077
	LTE Band 7	20M	QPSK	50	0	Left Side	5	Hotspot On	21350	2560	19.87	20.50	1.156	0.09	0.066	0.077
	LTE Band 7	20M	QPSK	1	0	Right Side	5	Hotspot On	21350	2560	19.81	20.50	1.172	-0.01	0.470	0.551
	LTE Band 7	20M	QPSK	50	0	Right Side	5	Hotspot On	21350	2560	19.87	20.50	1.156	0.06	0.476	0.550
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5	Hotspot On	21350	2560	19.81	20.50	1.172	0.03	0.634	0.743
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5	Hotspot On	21350	2560	19.87	20.50	1.156	0.11	0.639	0.739

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Mode	Power Class	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41	20M	QPSK	1	0	Front	5	Hotspot On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.01	0.451	0.492
	LTE Band 41	20M	QPSK	50	0	Front	5	Hotspot On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.01	0.465	0.506
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.04	0.809	0.882
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	3	39750	2506	21.57	22.00	1.104	62.9	1.006	0.16	0.724	0.804
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	3	40185	2549.5	21.24	22.00	1.191	62.9	1.006	-0.01	0.702	0.841
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	3	40620	2593	21.17	22.00	1.211	62.9	1.006	0.05	0.728	0.887
37	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	3	41490	2680	21.46	22.00	1.132	62.9	1.006	-0.13	1.210	1.378
	LTE Band 41	20M	QPSK	50	0	Back	5	Hotspot On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.02	0.815	0.887
	LTE Band 41	20M	QPSK	50	0	Back	5	Hotspot On	3	39750	2506	21.60	22.00	1.096	62.9	1.006	0.16	0.718	0.792
	LTE Band 41	20M	QPSK	50	0	Back	5	Hotspot On	3	40185	2549.5	21.46	22.00	1.132	62.9	1.006	0.01	0.715	0.815
	LTE Band 41	20M	QPSK	50	0	Back	5	Hotspot On	3	40620	2593	21.15	22.00	1.216	62.9	1.006	0.02	0.738	0.903
	LTE Band 41	20M	QPSK	50	0	Back	5	Hotspot On	3	41490	2680	21.23	22.00	1.194	62.9	1.006	-0.18	0.834	1.002
	LTE Band 41	20M	QPSK	100	0	Back	5	Hotspot On	3	41055	2636.5	21.62	22.00	1.091	62.9	1.006	0.05	0.832	0.914
	LTE Band 41	20M	QPSK	1	0	Left Side	5	Hotspot On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.01	0.051	0.055
	LTE Band 41	20M	QPSK	50	0	Left Side	5	Hotspot On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.01	0.051	0.056
	LTE Band 41	20M	QPSK	1	0	Right Side	5	Hotspot On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.01	0.332	0.362
	LTE Band 41	20M	QPSK	50	0	Right Side	5	Hotspot On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.02	0.335	0.364
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5	Hotspot On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.19	0.378	0.412
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5	Hotspot On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.05	0.378	0.411
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	2	41055	2636.5	21.65	22.00	1.084	42.9	1.009	0.13	0.552	0.604
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	2	39750	2506	21.57	22.00	1.104	42.9	1.009	0.12	0.485	0.540
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	2	40185	2549.5	21.24	22.00	1.191	42.9	1.009	0.06	0.461	0.554
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	2	40620	2593	21.17	22.00	1.211	42.9	1.009	0.09	0.460	0.562
	LTE Band 41	20M	QPSK	1	0	Back	5	Hotspot On	2	41490	2680	21.46	22.00	1.132	42.9	1.009	-0.04	0.768	0.878

<WLAN 2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5	Hotspot On	11	2462	17.62	18.00	1.091	100	1.000	-0.05	0.474	0.517
38	WLAN2.4GHz	802.11b 1Mbps	Back	5	Hotspot On	11	2462	17.62	18.00	1.091	100	1.000	-0.15	0.983	1.073
	WLAN2.4GHz	802.11b 1Mbps	Back	5	Hotspot On	1	2412	17.09	18.00	1.233	100	1.000	-0.18	0.829	1.022
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5	Hotspot On	11	2462	17.62	18.00	1.091	100	1.000	-0.13	0.148	0.162
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5	Hotspot On	11	2462	17.62	18.00	1.091	100	1.000	-0.12	0.733	0.800
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5	Hotspot On	1	2412	17.09	18.00	1.233	100	1.000	-0.09	0.668	0.824

<WLAN 5GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5	Hotspot On	42	5210	13.39	13.50	1.027	85.1	1.175	0.01	0.246	0.297
39	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5	Hotspot On	42	5210	13.39	13.50	1.027	85.1	1.175	-0.03	0.909	1.096
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5	Hotspot On	42	5210	13.39	13.50	1.027	85.1	1.175	-0.11	0.127	0.153
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5	Hotspot On	42	5210	13.39	13.50	1.027	85.1	1.175	-0.16	0.208	0.251
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5	Hotspot On	155	5775	12.76	13.00	1.058	85.1	1.175	0.03	0.231	0.287
40	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5	Hotspot On	155	5775	12.76	13.00	1.058	85.1	1.175	0.04	0.890	1.106
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Side	5	Hotspot On	155	5775	12.76	13.00	1.058	85.1	1.175	0.03	0.107	0.133
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Top Side	5	Hotspot On	155	5775	12.76	13.00	1.058	85.1	1.175	0.03	0.197	0.245

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	5	Full	39	2441	8.77	9.00	1.054	77.02	1.082	0.02	0.033	0.038
41	Bluetooth	1Mbps	Back	5	Full	39	2441	8.77	9.00	1.054	77.02	1.082	-0.07	0.059	0.067
	Bluetooth	1Mbps	Left Side	5	Full	39	2441	8.77	9.00	1.054	77.02	1.082	0.01	0.010	0.011
	Bluetooth	1Mbps	Top Side	5	Full	39	2441	8.77	9.00	1.054	77.02	1.082	0.02	0.050	0.057

15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (2 Tx slot)	Front	5	-	P-Sensor On	128	824.2	28.90	30.00	1.288	-0.06	0.552	0.711
	GSM850	GPRS (2 Tx slot)	Back	5	-	P-Sensor On	128	824.2	28.90	30.00	1.288	-0.09	0.968	1.247
	GSM850	GPRS (2 Tx slot)	Back	5	-	P-Sensor On	189	836.4	28.57	30.00	1.390	-0.02	0.684	0.951
	GSM850	GPRS (2 Tx slot)	Back	5	-	P-Sensor On	251	848.8	28.43	30.00	1.435	-0.01	0.818	1.174
42	GSM850	GPRS (2 Tx slot)	Back	5	Headset	P-Sensor On	128	824.2	28.90	30.00	1.288	0.01	0.972	1.252
	GSM850	GPRS (2 Tx slot)	Back	5	Headset	P-Sensor On	189	836.4	28.57	30.00	1.390	0.05	0.698	0.970
	GSM850	GPRS (2 Tx slot)	Back	5	Headset	P-Sensor On	251	848.8	28.43	30.00	1.435	0.06	0.839	1.204
	GSM1900	GPRS (2 Tx slot)	Front	5	-	P-Sensor On	810	1909.8	22.75	23.50	1.189	0.03	0.797	0.947
	GSM1900	GPRS (2 Tx slot)	Front	5	-	P-Sensor On	512	1850.2	22.72	23.50	1.197	0.05	0.602	0.720
	GSM1900	GPRS (2 Tx slot)	Front	5	-	P-Sensor On	661	1880	22.70	23.50	1.202	0.01	0.765	0.920
	GSM1900	GPRS (2 Tx slot)	Back	5	-	P-Sensor On	810	1909.8	22.75	23.50	1.189	0.04	1.170	1.391
	GSM1900	GPRS (2 Tx slot)	Back	5	-	P-Sensor On	512	1850.2	22.72	23.50	1.197	0.03	0.963	1.152
43	GSM1900	GPRS (2 Tx slot)	Back	5	-	P-Sensor On	661	1880	22.70	23.50	1.202	-0.08	1.180	1.419
	GSM1900	GPRS (2 Tx slot)	Back	5	Headset	P-Sensor On	661	1880	22.70	23.50	1.202	0.08	1.160	1.395
	GSM1900	GPRS (2 Tx slot)	Back	5	Headset	P-Sensor On	512	1850.2	22.72	23.50	1.197	0.16	0.980	1.173
	GSM1900	GPRS (2 Tx slot)	Back	5	Headset	P-Sensor On	810	1909.8	22.75	23.50	1.189	0.02	1.120	1.331

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	5	-	Full	4132	826.4	24.16	24.50	1.081	0.01	0.615	0.665
	WCDMA Band V	RMC 12.2Kbps	Back	5	-	Full	4132	826.4	24.16	24.50	1.081	0.01	1.110	1.200
	WCDMA Band V	RMC 12.2Kbps	Back	5	-	Full	4182	836.4	24.05	24.50	1.109	0.02	1.180	1.309
44	WCDMA Band V	RMC 12.2Kbps	Back	5	-	Full	4233	846.6	23.84	24.50	1.164	-0.02	1.180	1.374
	WCDMA Band V	RMC 12.2Kbps	Back	5	Headset	Full	4233	846.6	23.84	24.50	1.164	0.01	1.010	1.176
	WCDMA Band V	RMC 12.2Kbps	Back	5	Headset	Full	4132	826.4	24.16	24.50	1.081	-0.01	0.984	1.064
	WCDMA Band V	RMC 12.2Kbps	Back	5	Headset	Full	4182	836.4	24.05	24.50	1.109	0.04	1.030	1.142
	WCDMA Band IV	RMC 12.2Kbps	Front	5	-	P-Sensor On	1312	1712.4	15.79	16.00	1.050	-0.07	0.838	0.880
	WCDMA Band IV	RMC 12.2Kbps	Front	5	-	P-Sensor On	1413	1732.6	15.61	16.00	1.094	-0.01	0.831	0.909
	WCDMA Band IV	RMC 12.2Kbps	Front	5	-	P-Sensor On	1513	1752.6	15.77	16.00	1.054	0.14	0.873	0.920
	WCDMA Band IV	RMC 12.2Kbps	Back	5	-	P-Sensor On	1312	1712.4	15.79	16.00	1.050	0.06	1.240	1.301
45	WCDMA Band IV	RMC 12.2Kbps	Back	5	-	P-Sensor On	1413	1732.6	15.61	16.00	1.094	0.06	1.260	1.378
	WCDMA Band IV	RMC 12.2Kbps	Back	5	-	P-Sensor On	1513	1752.6	15.77	16.00	1.054	0.01	1.190	1.255
	WCDMA Band IV	RMC12.2Kbps	Back	5	Headset	P-Sensor On	1413	1732.6	15.61	16.00	1.094	0.05	1.260	1.378
	WCDMA Band IV	RMC12.2Kbps	Back	5	Headset	P-Sensor On	1312	1712.4	15.79	16.00	1.050	0.09	1.220	1.280
	WCDMA Band IV	RMC12.2Kbps	Back	5	Headset	P-Sensor On	1513	1752.6	15.77	16.00	1.054	-0.03	1.160	1.223
	WCDMA Band II	RMC 12.2Kbps	Front	5	-	P-Sensor On	9400	1880	16.40	17.00	1.148	-0.03	0.706	0.811
	WCDMA Band II	RMC 12.2Kbps	Front	5	-	P-Sensor On	9262	1852.4	16.19	17.00	1.205	-0.03	0.573	0.690
	WCDMA Band II	RMC 12.2Kbps	Front	5	-	P-Sensor On	9538	1907.6	16.36	17.00	1.159	0.16	0.697	0.808
	WCDMA Band II	RMC 12.2Kbps	Back	5	-	P-Sensor On	9400	1880	16.40	17.00	1.148	0.09	0.980	1.125
46	WCDMA Band II	RMC 12.2Kbps	Back	5	-	P-Sensor On	9262	1852.4	16.19	17.00	1.205	0.07	1.120	1.350
	WCDMA Band II	RMC 12.2Kbps	Back	5	-	P-Sensor On	9538	1907.6	16.36	17.00	1.159	-0.12	1.140	1.321
	WCDMA Band II	RMC12.2Kbps	Back	5	Headset	P-Sensor On	9262	1852.4	16.19	17.00	1.205	0.04	1.090	1.313
	WCDMA Band II	RMC12.2Kbps	Back	5	Headset	P-Sensor On	9400	1880	16.40	17.00	1.148	0.06	0.970	1.114
	WCDMA Band II	RMC12.2Kbps	Back	5	Headset	P-Sensor On	9538	1907.6	16.36	17.00	1.159	0.01	1.080	1.251



<CDMA2000 SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Front	5	-	Full	384	836.52	24.28	25.00	1.180	-0.02	0.737	0.870
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Front	5	-	Full	1013	824.7	24.31	25.00	1.172	0.03	0.648	0.760
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Front	5	-	Full	777	848.31	24.19	25.00	1.205	0.02	0.788	0.950
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	5	-	Full	384	836.52	24.28	25.00	1.180	0.01	1.060	1.251
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	5	-	Full	1013	824.7	24.31	25.00	1.172	0.01	0.902	1.057
47	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	5	-	Full	777	848.31	24.19	25.00	1.205	0.02	1.070	1.289
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	5	Headset	Full	777	848.31	24.19	25.00	1.205	0.11	1.050	1.265
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	5	Headset	Full	384	836.52	24.28	25.00	1.180	0.02	1.060	1.251
	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	5	Headset	Full	1013	824.7	24.31	25.00	1.172	0.08	0.889	1.042
	CDMA2000 BC1	RC3 SO32 (F+SCH)	Front	5	-	P-Sensor On	25	1851.25	15.29	16.00	1.178	-0.01	0.494	0.582
	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	5	-	P-Sensor On	25	1851.25	15.29	16.00	1.178	0.06	0.720	0.848
	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	5	-	P-Sensor On	600	1880	15.28	16.00	1.180	0.08	0.846	0.999
48	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	5	-	P-Sensor On	1175	1908.75	15.21	16.00	1.199	0.03	0.989	1.186
	CDMA2000 BC10	RC3 SO32 (F+SCH)	Front	5	-	Full	476	817.9	24.28	25.00	1.180	0.01	0.633	0.747
49	CDMA2000 BC10	RC3 SO32 (F+SCH)	Back	5	-	Full	476	817.9	24.28	25.00	1.180	0.07	0.935	1.104
	CDMA2000 BC10	RC3 SO32 (F+SCH)	Back	5	-	Full	580	820.5	24.26	25.00	1.186	0.02	0.909	1.078
	CDMA2000 BC10	RC3 SO32 (F+SCH)	Back	5	-	Full	684	823.1	24.22	25.00	1.197	0.01	0.898	1.075

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	0	Front	5	-	Full	133322	683	23.10	24.00	1.230	-0.07	0.310	0.381
	LTE Band 71	20M	QPSK	50	0	Front	5	-	Full	133322	683	22.29	23.00	1.178	-0.01	0.179	0.211
50	LTE Band 71	20M	QPSK	1	0	Back	5	-	Full	133322	683	23.10	24.00	1.230	0.02	0.679	0.835
	LTE Band 71	20M	QPSK	50	50	Back	5	-	Full	133322	683	22.29	23.00	1.178	-0.05	0.435	0.512
	LTE Band 71	20M	QPSK	100	0	Back	5	-	Full	133322	683	22.20	23.00	1.202	-0.14	0.434	0.522
	LTE Band 12	10M	QPSK	1	49	Front	5	-	Full	23095	707.5	22.97	24.00	1.268	0.01	0.417	0.529
	LTE Band 12	10M	QPSK	25	12	Front	5	-	Full	23095	707.5	22.03	23.00	1.250	0.02	0.336	0.420
51	LTE Band 12	10M	QPSK	1	49	Back	5	-	Full	23095	707.5	22.97	24.00	1.268	0.05	0.677	0.858
	LTE Band 12	10M	QPSK	25	12	Back	5	-	Full	23095	707.5	22.03	23.00	1.250	0.07	0.570	0.713
	LTE Band 12	10M	QPSK	50	0	Back	5	-	Full	23095	707.5	22.03	23.00	1.250	0.02	0.586	0.733
	LTE Band 13	10M	QPSK	1	0	Front	5	-	P-Sensor On	23230	782	22.11	23.00	1.227	-0.04	0.499	0.612
	LTE Band 13	10M	QPSK	25	0	Front	5	-	P-Sensor On	23230	782	22.12	23.00	1.225	0.01	0.389	0.476
52	LTE Band 13	10M	QPSK	1	0	Back	5	-	P-Sensor On	23230	782	22.11	23.00	1.227	-0.06	0.975	1.197
	LTE Band 13	10M	QPSK	25	0	Back	5	-	P-Sensor On	23230	782	22.12	23.00	1.225	0.09	0.753	0.922
	LTE Band 13	10M	QPSK	50	0	Back	5	-	P-Sensor On	23230	782	22.19	23.00	1.205	0.17	0.696	0.839
	LTE Band 26	15M	QPSK	1	0	Front	5	-	P-Sensor On	26865	831.5	22.26	23.00	1.186	0.01	0.504	0.598
	LTE Band 26	15M	QPSK	36	20	Front	5	-	P-Sensor On	26865	831.5	22.03	23.00	1.250	0.02	0.381	0.476
53	LTE Band 26	15M	QPSK	1	0	Back	5	-	P-Sensor On	26865	831.5	22.26	23.00	1.186	-0.01	1.060	1.257
	LTE Band 26	15M	QPSK	1	0	Back	5	Headset	P-Sensor On	26865	831.5	22.26	23.00	1.186	0.15	1.040	1.233
	LTE Band 26	15M	QPSK	36	20	Back	5	-	P-Sensor On	26865	831.5	22.03	23.00	1.250	0.06	0.808	1.010
	LTE Band 26	15M	QPSK	75	0	Back	5	-	P-Sensor On	26865	831.5	21.99	23.00	1.262	0.08	0.696	0.878



FCC SAR Test Report

Report No. : FA920101

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66	20M	QPSK	1	99	Front	5	-	P-Sensor On	132072	1720	16.35	17.00	1.161	0.08	0.709	0.823
	LTE Band 66	20M	QPSK	1	99	Front	5	-	P-Sensor On	132322	1745	16.26	17.00	1.186	0.01	0.687	0.815
	LTE Band 66	20M	QPSK	1	99	Front	5	-	P-Sensor On	132572	1770	16.22	17.00	1.197	0.13	0.664	0.795
	LTE Band 66	20M	QPSK	50	50	Front	5	-	P-Sensor On	132072	1720	16.37	17.00	1.156	0.01	0.708	0.819
	LTE Band 66	20M	QPSK	50	50	Front	5	-	P-Sensor On	132322	1745	16.25	17.00	1.189	0.02	0.676	0.803
	LTE Band 66	20M	QPSK	50	50	Front	5	-	P-Sensor On	132572	1770	16.27	17.00	1.183	0.12	0.671	0.794
	LTE Band 66	20M	QPSK	100	0	Front	5	-	P-Sensor On	132072	1720	16.30	17.00	1.175	0.04	0.704	0.827
54	LTE Band 66	20M	QPSK	1	99	Back	5	-	P-Sensor On	132072	1720	16.35	17.00	1.161	-0.06	1.100	1.278
	LTE Band 66	20M	QPSK	1	99	Back	5	-	P-Sensor On	132322	1745	16.26	17.00	1.186	0.01	0.917	1.087
	LTE Band 66	20M	QPSK	1	99	Back	5	-	P-Sensor On	132572	1770	16.22	17.00	1.197	0.12	1.020	1.221
	LTE Band 66	20M	QPSK	50	50	Back	5	-	P-Sensor On	132072	1720	16.37	17.00	1.156	0.05	1.040	1.202
	LTE Band 66	20M	QPSK	50	50	Back	5	-	P-Sensor On	132322	1745	16.25	17.00	1.189	-0.07	1.050	1.248
	LTE Band 66	20M	QPSK	50	50	Back	5	-	P-Sensor On	132572	1770	16.27	17.00	1.183	0.03	1.020	1.207
	LTE Band 66	20M	QPSK	100	0	Back	5	-	P-Sensor On	132072	1720	16.30	17.00	1.175	0.1	1.030	1.210
	LTE Band 66	20M	QPSK	1	99	Back	5	Headset	P-Sensor On	132072	1720	16.35	17.00	1.161	0.1	1.080	1.254
	LTE Band 66	20M	QPSK	1	99	Back	5	Headset	P-Sensor On	132322	1745	16.26	17.00	1.186	0.19	1.030	1.221
	LTE Band 66	20M	QPSK	1	99	Back	5	Headset	P-Sensor On	132572	1770	16.22	17.00	1.197	0.01	0.981	1.174
	LTE Band 25	20M	QPSK	1	99	Front	5	-	P-Sensor On	26590	1905	16.60	17.00	1.096	0.05	0.641	0.703
	LTE Band 25	20M	QPSK	50	24	Front	5	-	P-Sensor On	26590	1905	16.42	17.00	1.143	0.12	0.628	0.718
	LTE Band 25	20M	QPSK	1	99	Back	5	-	P-Sensor On	26590	1905	16.60	17.00	1.096	0.07	1.120	1.228
	LTE Band 25	20M	QPSK	1	99	Back	5	-	P-Sensor On	26140	1860	16.45	17.00	1.135	0.03	0.944	1.071
	LTE Band 25	20M	QPSK	1	99	Back	5	-	P-Sensor On	26340	1880	16.50	17.00	1.122	-0.07	0.886	0.994
	LTE Band 25	20M	QPSK	50	24	Back	5	-	P-Sensor On	26590	1905	16.42	17.00	1.143	0.1	1.070	1.223
	LTE Band 25	20M	QPSK	50	24	Back	5	-	P-Sensor On	26140	1860	16.27	17.00	1.183	0.06	0.847	1.002
	LTE Band 25	20M	QPSK	50	24	Back	5	-	P-Sensor On	26340	1880	16.31	17.00	1.172	0.1	0.949	1.112
55	LTE Band 25	20M	QPSK	100	0	Back	5	-	P-Sensor On	26590	1905	16.24	17.00	1.191	0.06	1.070	1.275
	LTE Band 25	20M	QPSK	100	0	Back	5	Headset	P-Sensor On	26590	1905	16.24	17.00	1.191	0.12	1.060	1.263
	LTE Band 7	20M	QPSK	1	0	Front	5	-	P-Sensor On	21350	2560	19.81	20.50	1.172	0.11	0.629	0.737
	LTE Band 7	20M	QPSK	50	0	Front	5	-	P-Sensor On	21350	2560	19.87	20.50	1.156	0.04	0.638	0.738
	LTE Band 7	20M	QPSK	1	0	Back	5	-	P-Sensor On	21350	2560	19.81	20.50	1.172	0.01	1.060	1.243
	LTE Band 7	20M	QPSK	1	0	Back	5	-	P-Sensor On	20850	2510	19.58	20.50	1.236	-0.01	1.030	1.273
56	LTE Band 7	20M	QPSK	1	0	Back	5	-	P-Sensor On	21100	2535	19.75	20.50	1.189	-0.03	1.110	1.319
	LTE Band 7	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	21350	2560	19.81	20.50	1.172	0.04	0.636	0.746
	LTE Band 7	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	20850	2510	19.58	20.50	1.236	0.06	0.656	0.811
	LTE Band 7	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	21100	2535	19.75	20.50	1.189	0.05	0.618	0.734
	LTE Band 7	20M	QPSK	50	0	Back	5	-	P-Sensor On	21350	2560	19.87	20.50	1.156	0.06	1.080	1.249
	LTE Band 7	20M	QPSK	50	0	Back	5	-	P-Sensor On	20850	2510	19.65	20.50	1.216	0.13	1.060	1.289
	LTE Band 7	20M	QPSK	50	0	Back	5	-	P-Sensor On	21100	2535	19.66	20.50	1.213	-0.01	1.040	1.262
	LTE Band 7	20M	QPSK	100	0	Back	5	-	P-Sensor On	21350	2560	19.75	20.50	1.189	0.01	1.100	1.307



<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Headset	Power Mode	Power Class	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41	20M	QPSK	1	0	Front	5	-	P-Sensor On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.01	0.451	0.492
	LTE Band 41	20M	QPSK	50	0	Front	5	-	P-Sensor On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.01	0.465	0.506
	LTE Band 41	20M	QPSK	1	0	Back	5	-	P-Sensor On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.04	0.809	0.882
	LTE Band 41	20M	QPSK	1	0	Back	5	-	P-Sensor On	3	39750	2506	21.57	22.00	1.104	62.9	1.006	0.16	0.724	0.804
	LTE Band 41	20M	QPSK	1	0	Back	5	-	P-Sensor On	3	40185	2549.5	21.24	22.00	1.191	62.9	1.006	-0.01	0.702	0.841
	LTE Band 41	20M	QPSK	1	0	Back	5	-	P-Sensor On	3	40620	2593	21.17	22.00	1.211	62.9	1.006	0.05	0.728	0.887
57	LTE Band 41	20M	QPSK	1	0	Back	5	-	P-Sensor On	3	41490	2680	21.46	22.00	1.132	62.9	1.006	-0.13	1.210	1.378
	LTE Band 41	20M	QPSK	50	0	Back	5	-	P-Sensor On	3	41055	2636.5	21.66	22.00	1.081	62.9	1.006	0.02	0.815	0.887
	LTE Band 41	20M	QPSK	50	0	Back	5	-	P-Sensor On	3	39750	2506	21.60	22.00	1.096	62.9	1.006	0.16	0.718	0.792
	LTE Band 41	20M	QPSK	50	0	Back	5	-	P-Sensor On	3	40185	2549.5	21.46	22.00	1.132	62.9	1.006	0.01	0.715	0.815
	LTE Band 41	20M	QPSK	50	0	Back	5	-	P-Sensor On	3	40620	2593	21.15	22.00	1.216	62.9	1.006	0.02	0.738	0.903
	LTE Band 41	20M	QPSK	50	0	Back	5	-	P-Sensor On	3	41490	2680	21.23	22.00	1.194	62.9	1.006	-0.18	0.834	1.002
	LTE Band 41	20M	QPSK	100	0	Back	5	-	P-Sensor On	3	41055	2636.5	21.62	22.00	1.091	62.9	1.006	0.05	0.832	0.914
	LTE Band 41	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	3	41055	2636.5	21.65	22.00	1.084	62.9	1.006	0.02	0.793	0.865
	LTE Band 41	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	3	39750	2506	21.57	22.00	1.104	62.9	1.006	0.06	0.482	0.535
	LTE Band 41	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	3	40185	2549.5	21.24	22.00	1.191	62.9	1.006	-0.16	0.491	0.588
	LTE Band 41	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	3	40620	2593	21.17	22.00	1.211	62.9	1.006	-0.17	0.501	0.610
	LTE Band 41	20M	QPSK	1	0	Back	5	Headset	P-Sensor On	3	41490	2680	21.46	22.00	1.132	62.9	1.006	0.06	0.554	0.631
	LTE Band 41	20M	QPSK	1	0	Back	5	5	P-Sensor On	2	41055	2636.5	21.65	22.00	1.084	42.9	1.009	0.13	0.552	0.604
	LTE Band 41	20M	QPSK	1	0	Back	5	5	P-Sensor On	2	39750	2506	21.57	22.00	1.104	42.9	1.009	0.12	0.485	0.540
	LTE Band 41	20M	QPSK	1	0	Back	5	5	P-Sensor On	2	40185	2549.5	21.24	22.00	1.191	42.9	1.009	0.06	0.461	0.554
	LTE Band 41	20M	QPSK	1	0	Back	5	5	P-Sensor On	2	40620	2593	21.17	22.00	1.211	42.9	1.009	0.09	0.460	0.562
	LTE Band 41	20M	QPSK	1	0	Back	5	5	P-Sensor On	2	41490	2680	21.46	22.00	1.132	42.9	1.009	-0.04	0.768	0.878

<WLAN 2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5	-	P-Sensor On	11	2462	17.62	18.00	1.091	100	1.000	-0.05	0.474	0.517
58	WLAN2.4GHz	802.11b 1Mbps	Back	5	-	P-Sensor On	11	2462	17.62	18.00	1.091	100	1.000	-0.15	0.983	1.073
	WLAN2.4GHz	802.11b 1Mbps	Back	5	-	P-Sensor On	1	2412	17.09	18.00	1.233	100	1.000	-0.18	0.829	1.022

<WLAN 5GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5	-	P-Sensor On	42	5210	13.39	13.50	1.027	85.1	1.175	0.01	0.246	0.297
79	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5	-	P-Sensor On	42	5210	13.39	13.50	1.027	85.1	1.175	-0.03	0.909	1.096
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5	-	P-Sensor On	58	5290	12.88	13.00	1.028	85.1	1.175	-0.01	0.209	0.252
59	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5	-	P-Sensor On	58	5290	12.88	13.00	1.028	85.1	1.175	0.07	0.933	1.127
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5	-	P-Sensor On	106	5530	12.66	13	1.082	85.1	1.175	0.02	0.221	0.281
60	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5	-	P-Sensor On	106	5530	12.66	13	1.082	85.1	1.175	0.04	0.857	1.090
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5	-	P-Sensor On	122	5610	12.49	13	1.126	85.1	1.175	0.04	0.821	1.086
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5	-	P-Sensor On	155	5775	12.76	13.00	1.058	85.1	1.175	0.03	0.231	0.287
61	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5	-	P-Sensor On	155	5775	12.76	13.00	1.058	85.1	1.175	0.04	0.890	1.106

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	5	-	Full	39	2441	8.77	9.00	1.054	77.02	1.082	0.02	0.033	0.038
62	Bluetooth	1Mbps	Back	5	-	Full	39	2441	8.77	9.00	1.054	77.02	1.082	-0.07	0.059	0.067

15.4 Product specific 10g SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
63	GSM850	GPRS (2 Tx slot)	Back	0	Full	128	824.2	29.59	31.00	1.384	0.09	1.800	2.490
	GSM850	GPRS (2 Tx slot)	Back	0	Full	189	836.4	29.58	31.00	1.387	0.05	1.790	2.482
	GSM850	GPRS (2 Tx slot)	Back	0	Full	251	848.8	29.34	31.00	1.466	0.03	1.590	2.330
	GSM1900	GPRS (2 Tx slot)	Front	0	Full	810	1909.8	27.01	28.00	1.256	0.01	2.160	2.713
	GSM1900	GPRS (2 Tx slot)	Front	0	Full	512	1850.2	26.70	28.00	1.349	0.07	1.900	2.563
	GSM1900	GPRS (2 Tx slot)	Front	0	Full	661	1880	26.88	28.00	1.294	0.01	2.160	2.795
	GSM1900	GPRS (2 Tx slot)	Back	0	Full	810	1909.8	27.01	28.00	1.256	0.01	2.470	3.102
	GSM1900	GPRS (2 Tx slot)	Back	0	Full	512	1850.2	26.70	28.00	1.349	-0.02	2.580	3.480
	GSM1900	GPRS (2 Tx slot)	Back	0	Full	661	1880	26.88	28.00	1.294	0.01	2.590	3.352
	GSM1900	GPRS (2 Tx slot)	Bottom Side	0	Full	810	1909.8	27.01	28.00	1.256	0.06	2.170	2.726
64	GSM1900	GPRS (2 Tx slot)	Bottom Side	0	Full	512	1850.2	26.90	28.00	1.288	0.07	2.780	3.581
	GSM1900	GPRS (2 Tx slot)	Bottom Side	0	Full	661	1880	26.88	28.00	1.294	0.01	2.350	3.041

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
65	WCDMA Band V	RMC 12.2Kbps	Back	0	Full	4233	846.6	23.84	24.50	1.164	0.02	1.450	1.688
	WCDMA Band IV	RMC 12.2Kbps	Front	0	Handheld On	1312	1712.4	19.68	20.00	1.076	0.02	2.290	2.465
	WCDMA Band IV	RMC 12.2Kbps	Front	0	Handheld On	1413	1732.6	19.30	20.00	1.175	0.05	2.240	2.632
	WCDMA Band IV	RMC 12.2Kbps	Front	0	Handheld On	1513	1752.6	19.24	20.00	1.191	-0.03	2.330	2.776
	WCDMA Band IV	RMC 12.2Kbps	Back	0	Handheld On	1312	1712.4	19.68	20.00	1.076	-0.11	3.080	3.316
	WCDMA Band IV	RMC 12.2Kbps	Back	0	Handheld On	1413	1732.6	19.30	20.00	1.175	-0.02	2.880	3.384
66	WCDMA Band IV	RMC 12.2Kbps	Back	0	Handheld On	1513	1752.6	19.24	20.00	1.191	0.09	2.920	3.478
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	0	Handheld On	1312	1712.4	19.68	20.00	1.076	-0.18	3.150	3.391
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	0	Handheld On	1413	1732.6	19.30	20.00	1.175	-0.07	2.890	3.395
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	0	Handheld On	1513	1752.6	19.24	20.00	1.191	0.05	2.810	3.347
	WCDMA Band II	RMC 12.2Kbps	Front	0	Handheld On	9400	1880	19.50	20.00	1.122	-0.02	1.500	1.683
	WCDMA Band II	RMC 12.2Kbps	Back	0	Handheld On	9400	1880	19.50	20.00	1.122	-0.09	2.390	2.682
	WCDMA Band II	RMC 12.2Kbps	Back	0	Handheld On	9262	1852.4	19.21	20.00	1.199	0.16	2.300	2.759
	WCDMA Band II	RMC 12.2Kbps	Back	0	Handheld On	9538	1907.6	19.36	20.00	1.159	0.01	2.120	2.457
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	0	Handheld On	9400	1880	19.50	20.00	1.122	0.09	2.480	2.783
67	WCDMA Band II	RMC 12.2Kbps	Bottom Side	0	Handheld On	9262	1852.4	19.21	20.00	1.199	0.06	2.580	3.095
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	0	Handheld On	9538	1907.6	19.36	20.00	1.159	-0.11	2.310	2.677



<CDMA2000 SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
68	CDMA2000 BC0	RTAP 153.6Kbps	Back	0	Full	384	836.52	24.30	25.00	1.175	0.1	1.160	1.363
	CDMA2000 BC1	RTAP 153.6Kbps	Back	0	Handheld On	25	1851.25	20.22	21.00	1.197	0.04	2.790	3.339
	CDMA2000 BC1	RTAP 153.6Kbps	Back	0	Handheld On	600	1880	20.26	21.00	1.186	0.09	2.860	3.391
69	CDMA2000 BC1	RTAP 153.6Kbps	Back	0	Handheld On	1175	1908.75	20.05	21.00	1.245	0.09	2.860	3.559
	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	0	Handheld On	25	1851.25	20.22	21.00	1.197	0.03	2.640	3.159
	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	0	Handheld On	600	1880	20.26	21.00	1.186	-0.01	2.590	3.071
	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	0	Handheld On	1175	1908.75	20.05	21.00	1.245	-0.08	2.510	3.124
70	CDMA2000 BC10	RTAP 153.6Kbps	Back	0	Full	476	817.9	24.30	25.00	1.175	0.05	0.777	0.913

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
71	LTE Band 13	10M	QPSK	1	0	Back	0	Full	23230	782	23.17	24.00	1.211	0.12	1.910	2.312
	LTE Band 13	10M	QPSK	25	0	Back	0	Full	23230	782	22.15	23.00	1.216	0.06	1.030	1.253
	LTE Band 13	10M	QPSK	50	0	Back	0	Full	23230	782	22.08	23.00	1.236	0.12	1.010	1.248
72	LTE Band 26	15M	QPSK	1	0	Back	0	Full	26865	831.5	23.01	24.00	1.256	0.09	1.910	2.399
	LTE Band 26	15M	QPSK	36	20	Back	0	Full	26865	831.5	21.97	23.00	1.268	0.19	0.949	1.203
	LTE Band 26	15M	QPSK	75	0	Back	0	Full	26865	831.5	22.04	23.00	1.247	0.01	0.939	1.171
	LTE Band 66	20M	QPSK	1	99	Front	0	Handheld On	132072	1720	19.58	20.00	1.102	0.01	1.800	1.983
	LTE Band 66	20M	QPSK	50	50	Front	0	Handheld On	132072	1720	19.81	20.00	1.045	0.06	1.820	1.901
	LTE Band 66	20M	QPSK	1	99	Back	0	Handheld On	132072	1720	19.58	20.00	1.102	0.04	2.310	2.545
	LTE Band 66	20M	QPSK	1	99	Back	0	Handheld On	132322	1745	19.48	20.00	1.127	0.06	2.280	2.570
	LTE Band 66	20M	QPSK	1	99	Back	0	Handheld On	132572	1770	19.48	20.00	1.127	0.09	2.160	2.435
	LTE Band 66	20M	QPSK	50	50	Back	0	Handheld On	132072	1720	19.81	20.00	1.045	0.08	2.360	2.466
	LTE Band 66	20M	QPSK	50	50	Back	0	Handheld On	132322	1745	19.30	20.00	1.175	0.06	2.400	2.820
	LTE Band 66	20M	QPSK	50	50	Back	0	Handheld On	132572	1770	19.22	20.00	1.197	0.01	2.170	2.597
	LTE Band 66	20M	QPSK	100	0	Back	0	Handheld On	132072	1720	19.19	20.00	1.205	0.06	2.400	2.892
	LTE Band 66	20M	QPSK	1	99	Bottom Side	0	Handheld On	132072	1720	19.58	20.00	1.102	0.05	2.470	2.721
	LTE Band 66	20M	QPSK	1	99	Bottom Side	0	Handheld On	132322	1745	19.48	20.00	1.127	0.03	2.220	2.502
	LTE Band 66	20M	QPSK	1	99	Bottom Side	0	Handheld On	132572	1770	19.48	20.00	1.127	0.03	2.140	2.412
	LTE Band 66	20M	QPSK	50	50	Bottom Side	0	Handheld On	132072	1720	19.81	20.00	1.045	0.01	2.560	2.674
	LTE Band 66	20M	QPSK	50	50	Bottom Side	0	Handheld On	132322	1745	19.30	20.00	1.175	0.09	2.250	2.644
	LTE Band 66	20M	QPSK	50	50	Bottom Side	0	Handheld On	132572	1770	19.22	20.00	1.197	0.03	2.190	2.621
73	LTE Band 66	20M	QPSK	100	0	Bottom Side	0	Handheld On	132072	1720	19.19	20.00	1.205	0.09	2.610	3.145



FCC SAR Test Report

Report No. : FA920101

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 25	20M	QPSK	1	99	Front	0	Handheld On	26590	1905	20.35	20.50	1.035	0.01	2.040	2.112
	LTE Band 25	20M	QPSK	1	99	Front	0	Handheld On	26140	1860	20.16	20.50	1.081	0.01	1.890	2.044
	LTE Band 25	20M	QPSK	1	99	Front	0	Handheld On	26340	1880	20.14	20.50	1.086	0.08	1.830	1.988
	LTE Band 25	20M	QPSK	50	24	Front	0	Handheld On	26590	1905	19.92	20.50	1.143	0.05	2.050	2.343
	LTE Band 25	20M	QPSK	50	24	Front	0	Handheld On	26140	1860	19.91	20.50	1.146	0.03	1.890	2.165
	LTE Band 25	20M	QPSK	50	24	Front	0	Handheld On	26340	1880	19.78	20.50	1.180	0.05	2.050	2.420
	LTE Band 25	20M	QPSK	100	0	Front	0	Handheld On	26590	1905	19.95	20.50	1.135	0.01	2.020	2.293
	LTE Band 25	20M	QPSK	1	99	Back	0	Handheld On	26590	1905	20.35	20.50	1.035	0.07	2.380	2.464
	LTE Band 25	20M	QPSK	1	99	Back	0	Handheld On	26140	1860	20.16	20.50	1.081	0.12	2.580	2.790
	LTE Band 25	20M	QPSK	1	99	Back	0	Handheld On	26340	1880	20.14	20.50	1.086	0.08	2.520	2.738
	LTE Band 25	20M	QPSK	50	24	Back	0	Handheld On	26590	1905	19.92	20.50	1.143	0.09	2.300	2.629
	LTE Band 25	20M	QPSK	50	24	Back	0	Handheld On	26140	1860	19.91	20.50	1.146	0.04	2.530	2.898
	LTE Band 25	20M	QPSK	50	24	Back	0	Handheld On	26340	1880	19.78	20.50	1.180	0.06	2.590	3.057
	LTE Band 25	20M	QPSK	100	0	Back	0	Handheld On	26590	1905	19.95	20.50	1.135	0.09	2.300	2.611
	LTE Band 25	20M	QPSK	1	99	Bottom Side	0	Handheld On	26590	1905	20.35	20.50	1.035	0.03	2.550	2.640
	LTE Band 25	20M	QPSK	1	99	Bottom Side	0	Handheld On	26140	1860	20.16	20.50	1.081	0.03	2.910	3.147
	LTE Band 25	20M	QPSK	1	99	Bottom Side	0	Handheld On	26340	1880	20.14	20.50	1.086	0.03	2.820	3.064
	LTE Band 25	20M	QPSK	50	24	Bottom Side	0	Handheld On	26590	1905	19.92	20.50	1.143	0.03	2.790	3.189
74	LTE Band 25	20M	QPSK	50	24	Bottom Side	0	Handheld On	26140	1860	19.91	20.50	1.146	0.01	3.140	3.597
	LTE Band 25	20M	QPSK	50	24	Bottom Side	0	Handheld On	26340	1880	19.78	20.50	1.180	0.02	2.990	3.529
	LTE Band 25	20M	QPSK	100	0	Bottom Side	0	Handheld On	26590	1905	19.95	20.50	1.135	0.09	2.770	3.144
	LTE Band 7	20M	QPSK	1	0	Front	0	Handheld On	21350	2560	21.23	22.00	1.194	0.03	1.530	1.827
	LTE Band 7	20M	QPSK	50	0	Front	0	Handheld On	21350	2560	21.30	22.00	1.175	0.02	1.580	1.856
75	LTE Band 7	20M	QPSK	1	0	Back	0	Handheld On	21350	2560	21.23	22.00	1.194	0.05	2.670	3.188
	LTE Band 7	20M	QPSK	1	0	Back	0	Handheld On	20850	2510	21.06	22.00	1.242	0.01	2.490	3.092
	LTE Band 7	20M	QPSK	1	0	Back	0	Handheld On	21100	2535	21.08	22.00	1.236	0.01	2.450	3.028
	LTE Band 7	20M	QPSK	50	0	Back	0	Handheld On	21350	2560	21.30	22.00	1.175	0.02	2.630	3.090
	LTE Band 7	20M	QPSK	50	0	Back	0	Handheld On	20850	2510	21.21	22.00	1.199	0.06	2.580	3.095
	LTE Band 7	20M	QPSK	50	0	Back	0	Handheld On	21100	2535	21.14	22.00	1.219	0.01	2.520	3.072
	LTE Band 7	20M	QPSK	100	0	Back	0	Handheld On	21350	2560	21.18	22.00	1.208	0.01	2.620	3.164
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0	Handheld On	21350	2560	21.23	22.00	1.194	0.01	1.280	1.528
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0	Handheld On	21350	2560	21.30	22.00	1.175	-0.03	1.390	1.633



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Class	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 41	20M	QPSK	1	0	Back	0	3	Full	41055	2636.5	23.20	24.00	1.202	62.9	1.006	0.07	2.320	2.806
	LTE Band 41	20M	QPSK	1	0	Back	0	3	Full	39750	2506	22.89	24.00	1.291	62.9	1.006	0.01	2.580	3.351
	LTE Band 41	20M	QPSK	1	0	Back	0	3	Full	40185	2549.5	23.03	24.00	1.250	62.9	1.006	0.02	2.670	3.358
	LTE Band 41	20M	QPSK	1	0	Back	0	3	Full	40620	2593	22.94	24.00	1.276	62.9	1.006	0.01	2.090	2.684
76	LTE Band 41	20M	QPSK	1	0	Back	0	3	Full	41490	2680	23.05	24.00	1.245	62.9	1.006	0.03	2.700	3.380
	LTE Band 41	20M	QPSK	50	0	Back	0	3	Full	41055	2636.5	22.20	23.00	1.202	62.9	1.006	0.01	2.330	2.818
	LTE Band 41	20M	QPSK	50	0	Back	0	3	Full	39750	2506	21.94	23.00	1.276	62.9	1.006	0.01	2.200	2.825
	LTE Band 41	20M	QPSK	50	0	Back	0	3	Full	40185	2549.5	22.11	23.00	1.227	62.9	1.006	0.01	2.220	2.741
	LTE Band 41	20M	QPSK	50	0	Back	0	3	Full	40620	2593	21.97	23.00	1.268	62.9	1.006	0.01	2.100	2.678
	LTE Band 41	20M	QPSK	50	0	Back	0	3	Full	41490	2680	21.96	23.00	1.271	62.9	1.006	0.01	2.320	2.965
	LTE Band 41	20M	QPSK	100	0	Back	0	3	Full	41055	2636.5	22.24	23.00	1.191	62.9	1.006	0.01	2.380	2.852
	LTE Band 41	20M	QPSK	1	0	Back	0	2	Handheld On	40620	2593	22.80	24.00	1.318	42.9	1.009	-0.03	1.710	2.275
	LTE Band 41	20M	QPSK	1	0	Back	0	2	Handheld On	39750	2506	22.52	24.00	1.406	42.9	1.009	-0.11	1.650	2.341
	LTE Band 41	20M	QPSK	1	0	Back	0	2	Handheld On	40185	2549.5	22.56	24.00	1.393	42.9	1.009	-0.06	1.620	2.277
	LTE Band 41	20M	QPSK	1	0	Back	0	2	Handheld On	41055	2636.5	22.41	24.00	1.442	42.9	1.009	0.03	1.710	2.488
	LTE Band 41	20M	QPSK	1	0	Back	0	2	Handheld On	41490	2680	22.46	24.00	1.426	42.9	1.009	0.19	1.720	2.474

<WLAN 5GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0	P-Sensor On	58	5290	12.88	13.00	1.028	85.1	1.175	0.05	0.218	0.263
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0	P-Sensor On	58	5290	12.88	13.00	1.028	85.1	1.175	-0.07	0.363	0.438
	WLAN5.3GHz	80.211a 6Mbps	Left Side	0	Full	52	5260	20.09	20.50	1.099	95.32	1.049	-0.14	0.823	0.949
77	WLAN5.3GHz	80.211a 6Mbps	Top Side	0	Full	52	5260	20.09	20.50	1.099	95.32	1.049	-0.16	0.980	1.130
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	0	Full	106	5530	12.60	13	1.096	85.1	1.175	0.1	0.341	0.439
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	0	Full	106	5530	12.60	13	1.096	85.1	1.175	0.01	0.548	0.706
	WLAN 5.5GHz	80.211a 6Mbps	Left Side	0	Full	100	5500	20.15	20.50	1.084	95.32	1.049	-0.14	0.702	0.798
78	WLAN 5.5GHz	80.211a 6Mbps	Top Side	0	Full	100	5500	20.15	20.50	1.084	95.32	1.049	-0.09	0.786	0.894

15.5 TDD LTE Band 41(HPUE) Linearity Data Analysis

LTE Band 41(HPUE)-Linearity Data for Head		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	26.00
Reported 1g SAR (W/kg)	0.241	0.240
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	172.38
Linearity SAR (W/kg)	0.261	
% deviation from expected linearity		-8.14%

LTE Band 41(HPUE)-Linearity Data for Hotspot		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	22.00
Reported 1g SAR (W/kg)	1.378	0.878
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	100.32	68.63
Linearity SAR (W/kg)	0.943	
% deviation from expected linearity		-6.85%

LTE Band 41(HPUE)-Linearity Data for Body-worn		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	22.00
Reported 1g SAR (W/kg)	1.378	0.878
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	100.32	68.63
Linearity SAR (W/kg)	0.943	
% deviation from expected linearity		-6.85%

LTE Band 41(HPUE)-Linearity Data for Product specific 10g SAR		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	24.00
Reported 1g SAR (W/kg)	3.380	2.488
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	108.76
Linearity SAR (W/kg)	2.312	
% deviation from expected linearity		7.61%

General Note:

1. The device can adjust uplink/downlink configuration automatically according to the transmitting power class level for LTE band 41.
2. According to TCB Workshop May 2017, Rel. 14 has introduced HPUE Power Class 2 for Band 41. HPUE Power Class 2 does not support uplink downlink configurations 0 and 6.
3. Power class 3 is expected to be the dominant use configuration; therefore, SAR should be tested as normally required.
4. Power class 2 is tested using the highest SAR test configuration in power class 3 of each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in power class 2.
5. Separate SAR testing for Power Class 2 is not required when
 - the reported SAR vs. output power can be linearly scaled with < 10%
 - discrepancy between power classes and all *reported* 1g SAR are < 1.4 W/kg (The same procedures should be adapted for measurements according to extremity limits by applying a factor of 2.5 for extremity exposure.)

**15.6 Repeated SAR Measurement****<1g SAR>**

No.	Band	Mode	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Class	Headset	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN 2.4GHz	802.11b 1Mbps	-	-	-	-	Right Tilted	0	-	-	Receiver on	1	2412	17.09	18.00	1.233	100	1.000	0.08	0.943	1	1.163
2nd	WLAN 2.4GHz	802.11b 1Mbps	-	-	-	-	Right Tilted	0	-	-	Receiver on	1	2412	17.09	18.00	1.233	100	1.000	0.01	0.937	1.006	1.155
1st	WLAN5.5GHz	802.11ac-VHT80 MCS0	-	-	-	-	Right Cheek	0	-	-	Receiver on	106	5530	13.61	14.50	1.228	85.1	1.175	0.08	0.803	1	1.159
2nd	WLAN5.5GHz	802.11ac-VHT80 MCS0	-	-	-	-	Right Cheek	0	-	-	Receiver on	106	5530	13.61	14.50	1.228	85.1	1.175	0.03	0.743	1.081	1.072
1st	WLAN5.8GHz	802.11ac-VHT80 MCS0	-	-	-	-	Right Cheek	0	-	-	Receiver on	155	5775	12.76	13.00	1.058	85.1	1.175	0.05	0.916	1	1.138
2nd	WLAN5.8GHz	802.11ac-VHT80 MCS0	-	-	-	-	Right Cheek	0	-	-	Receiver on	155	5775	12.76	13.00	1.058	85.1	1.175	0.03	0.913	1.003	1.135
1st	GSM1900	GPRS (2 Tx slot)	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	661	1880	22.70	23.50	1.202	-	-	-0.08	1.180	1	1.419
2nd	GSM1900	GPRS (2 Tx slot)	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	661	1880	22.70	23.50	1.202	-	-	-0.03	1.150	1.026	1.383
1st	WCDMA Band V	RMC 12.2Kbps	-	-	-	-	Back	5	-	-	Full	4233	846.6	23.84	24.50	1.164	-	-	-0.02	1.180	1	1.374
2nd	WCDMA Band V	RMC 12.2Kbps	-	-	-	-	Back	5	-	-	Full	4233	846.6	23.84	24.50	1.164	-	-	0.06	1.170	1.009	1.362
1st	WCDMA Band IV	RMC 12.2Kbps	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	1413	1732.6	15.61	16.00	1.094	-	-	0.06	1.260	1	1.378
2nd	WCDMA Band IV	RMC 12.2Kbps	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	1413	1732.6	15.61	16.00	1.094	-	-	-0.01	1.230	1.024	1.346
1st	LTE Band 41	-	20M	QPSK	1	0	Back	5	3	-	Hotspot On/ P-Sensor On	41490	2636.5	21.46	22.00	1.132	62.9	1.006	-0.13	1.210	1	1.378
2nd	LTE Band 41	-	20M	QPSK	1	0	Back	5	3	-	Hotspot On/ P-Sensor On	41490	2636.5	21.46	22.00	1.132	62.9	1.006	0.06	1.180	1.025	1.344
1st	WLAN 2.4GHz	802.11b 1Mbps	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	1	2412	17.09	18.00	1.233	100	1.000	-0.18	0.829	1	1.022
2nd	WLAN 2.4GHz	802.11b 1Mbps	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	11	2462	17.62	18.00	1.091	100	1.000	-0.14	0.896	0.925	0.978
1st	WLAN5.2GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	42	5210	13.39	13.50	1.027	85.1	1.175	-0.03	0.909	1	1.096
2nd	WLAN5.2GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	42	5210	13.39	13.50	1.027	85.1	1.175	42	0.905	1.004	1.092
1st	WLAN5.3GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	P-Sensor On	58	5290	12.88	13.00	1.028	85.1	1.175	0.07	0.933	1	1.127
2nd	WLAN5.3GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	P-Sensor On	58	5290	12.88	13.00	1.028	85.1	1.175	58	0.931	1.002	1.125
1st	WLAN5.5GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	P-Sensor On	106	5530	12.66	13	1.082	85.1	1.175	0.04	0.857	1	1.090
2nd	WLAN5.5GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	P-Sensor On	106	5530	12.66	13.00	1.082	85.1	1.175	0.07	0.854	1.004	1.086
1st	WLAN5.8GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	155	5775	12.76	13.00	1.058	85.1	1.175	0.04	0.890	1	1.106
2nd	WLAN5.8GHz	802.11ac-VHT80 MCS0	-	-	-	-	Back	5	-	-	Hotspot On/ P-Sensor On	155	5775	12.76	13.00	1.058	85.1	1.175	0.01	0.879	1.013	1.092



<10g SAR>

No.	Band	Mode	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Class	Power Mode	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA Band IV	RMC 12.2Kbps	-	-	-	-	Bottom Side	0	-	Handheld On	1312	1712.4	19.68	20.00	1.076	-	-	-0.18	3.150	1	3.391
2nd	WCDMA Band IV	RMC 12.2Kbps	-	-	-	-	Bottom Side	0	-	Handheld On	1312	1712.4	19.68	20.00	1.076	-	-	0.01	3.130	1.006	3.369
1st	LTE Band 25	-	20M	QPSK	50	24	Bottom Side	0	-	Handheld On	26140	1860	19.91	20.50	1.146	-	-	0.01	3.140	1	3.597
2nd	LTE Band 25	-	20M	QPSK	50	24	Bottom Side	0	-	Handheld On	26140	1860	19.91	20.50	1.146	-	-	0.06	3.110	1.010	3.563
1st	LTE Band 41	-	20M	QPSK	1	0	Back	0	3	Full	41490	2636.5	23.05	24.00	1.245	62.9	1.006	0.03	2.700	1	3.380
2nd	LTE Band 41	-	20M	QPSK	1	0	Back	0	3	Full	41490	2636.5	23.05	24.00	1.245	62.9	1.006	-0.09	2.680	1.007	3.355

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset		
		Head	Body-worn	Hotspot
1.	GSM Voice + WLAN2.4GHz	Yes	Yes	
2.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes
4.	CDMA + WLAN2.4GHz	Yes	Yes	Yes
5.	LTE + WLAN2.4GHz	Yes	Yes	Yes
6.	GSM Voice + WLAN5.3/5.5GHz	Yes	Yes	
7.	GPRS/EDGE + WLAN5.3/5.5GHz	Yes	Yes	
8.	WCDMA + WLAN5.3/5.5GHz	Yes	Yes	
9.	CDMA + WLAN5.3/5.5GHz	Yes	Yes	
10.	LTE + WLAN5.3/5.5GHz	Yes	Yes	
11.	GSM Voice + WLAN5.2/5.8GHz	Yes	Yes	
12.	GPRS/EDGE + WLAN5.2/5.8GHz	Yes	Yes	Yes
13.	WCDMA + WLAN5.2/5.8GHz	Yes	Yes	Yes
14.	CDMA + WLAN5.2/5.8GHz	Yes	Yes	Yes
15.	LTE + WLAN5.2/5.8GHz	Yes	Yes	Yes
16.	GSM Voice + Bluetooth	Yes	Yes	
17.	GPRS/EDGE + Bluetooth	Yes	Yes	Yes
18.	WCDMA + Bluetooth	Yes	Yes	Yes
19.	CDMA + Bluetooth	Yes	Yes	Yes
20.	LTE + Bluetooth	Yes	Yes	Yes
21.	Bluetooth + WLAN5.3/5.5GHz	Yes	Yes	
22.	Bluetooth + WLAN5.2/5.8GHz	Yes	Yes	Yes
23.	GSM Voice + Bluetooth + WLAN5.3/5.5GHz	Yes	Yes	
24.	GPRS/EDGE + Bluetooth + WLAN5.3/5.5GHz	Yes	Yes	
25.	WCDMA + Bluetooth + WLAN5.3/5.5GHz	Yes	Yes	
26.	CDMA + Bluetooth + WLAN5.3/5.5GHz	Yes	Yes	
27.	LTE + Bluetooth + WLAN5.3/5.5GHz	Yes	Yes	
28.	GSM Voice + Bluetooth + WLAN5.2/5.8GHz	Yes	Yes	
29.	GPRS/EDGE + Bluetooth + WLAN5.2/5.8GHz	Yes	Yes	Yes
30.	WCDMA + Bluetooth + WLAN5.2/5.8GHz	Yes	Yes	Yes
31.	CDMA + Bluetooth + WLAN5.2/5.8GHz	Yes	Yes	Yes
32.	LTE + Bluetooth + WLAN5.2/5.8GHz	Yes	Yes	Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 2.4GHz WLAN/ 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- The reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR, $SPLSR \leq 0.10$ for 10g SAR simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 16.5.

16.1 Head Exposure Conditions

WWAN Band		Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM	GSM850	Right Cheek	0.227	0.954	1.159	0.024	1.18	1.41
		Right Tilted	0.152	1.163	1.120	0.024	1.32	1.30
		Left Cheek	0.311	0.602	0.658	0.003	0.91	0.97
		Left Tilted	0.177	0.589	0.638	0.001	0.77	0.82
	GSM1900	Right Cheek	0.057	0.954	1.159	0.024	1.01	1.24
		Right Tilted	0.021	1.163	1.120	0.024	1.18	1.17
		Left Cheek	0.039	0.602	0.658	0.003	0.64	0.70
		Left Tilted	0.029	0.589	0.638	0.001	0.62	0.67
WCDMA	Band V	Right Cheek	0.151	0.954	1.159	0.024	1.11	1.33
		Right Tilted	0.119	1.163	1.120	0.024	1.28	1.26
		Left Cheek	0.223	0.602	0.658	0.003	0.83	0.88
		Left Tilted	0.134	0.589	0.638	0.001	0.72	0.77
	Band IV	Right Cheek	0.140	0.954	1.159	0.024	1.09	1.32
		Right Tilted	0.089	1.163	1.120	0.024	1.25	1.23
		Left Cheek	0.218	0.602	0.658	0.003	0.82	0.88
		Left Tilted	0.064	0.589	0.638	0.001	0.65	0.70
	Band II	Right Cheek	0.085	0.954	1.159	0.024	1.04	1.27
		Right Tilted	0.063	1.163	1.120	0.024	1.23	1.21
		Left Cheek	0.117	0.602	0.658	0.003	0.72	0.78
		Left Tilted	0.062	0.589	0.638	0.001	0.65	0.70
CDMA2000	BC0	Right Cheek	0.220	0.954	1.159	0.024	1.17	1.40
		Right Tilted	0.140	1.163	1.120	0.024	1.30	1.28
		Left Cheek	0.281	0.602	0.658	0.003	0.88	0.94
		Left Tilted	0.127	0.589	0.638	0.001	0.72	0.77
	BC1	Right Cheek	0.152	0.954	1.159	0.024	1.11	1.34
		Right Tilted	0.127	1.163	1.120	0.024	1.29	1.27
		Left Cheek	0.158	0.602	0.658	0.003	0.76	0.82
		Left Tilted	0.063	0.589	0.638	0.001	0.65	0.70
	BC10	Right Cheek	0.198	0.954	1.159	0.024	1.15	1.38
		Right Tilted	0.146	1.163	1.120	0.024	1.31	1.29
		Left Cheek	0.263	0.602	0.658	0.003	0.87	0.92
		Left Tilted	0.136	0.589	0.638	0.001	0.73	0.78

WWAN Band		Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE	Band 71	Right Cheek	0.117	0.954	1.159	0.024	1.07	1.30
		Right Tilted	0.073	1.163	1.120	0.024	1.24	1.22
		Left Cheek	0.141	0.602	0.658	0.003	0.74	0.80
		Left Tilted	0.065	0.589	0.638	0.001	0.65	0.70
	Band 12	Right Cheek	0.262	0.954	1.159	0.024	1.22	1.45
		Right Tilted	0.151	1.163	1.120	0.024	1.31	1.30
		Left Cheek	0.262	0.602	0.658	0.003	0.86	0.92
		Left Tilted	0.156	0.589	0.638	0.001	0.75	0.80
	Band 13	Right Cheek	0.343	0.954	1.159	0.024	1.30	1.53
		Right Tilted	0.154	1.163	1.120	0.024	1.32	1.30
		Left Cheek	0.346	0.602	0.658	0.003	0.95	1.01
		Left Tilted	0.172	0.589	0.638	0.001	0.76	0.81
	Band 26	Right Cheek	0.261	0.954	1.159	0.024	1.22	1.44
		Right Tilted	0.196	1.163	1.120	0.024	1.36	1.34
		Left Cheek	0.329	0.602	0.658	0.003	0.93	0.99
		Left Tilted	0.190	0.589	0.638	0.001	0.78	0.83
	Band 66	Right Cheek	0.104	0.954	1.159	0.024	1.06	1.29
		Right Tilted	0.061	1.163	1.120	0.024	1.22	1.21
		Left Cheek	0.128	0.602	0.658	0.003	0.73	0.79
		Left Tilted	0.061	0.589	0.638	0.001	0.65	0.70
	Band 25	Right Cheek	0.079	0.954	1.159	0.024	1.03	1.26
		Right Tilted	0.036	1.163	1.120	0.024	1.20	1.18
		Left Cheek	0.137	0.602	0.658	0.003	0.74	0.80
		Left Tilted	0.023	0.589	0.638	0.001	0.61	0.66
	Band 7	Right Cheek	0.345	0.954	1.159	0.024	1.30	1.53
		Right Tilted	0.147	1.163	1.120	0.024	1.31	1.29
		Left Cheek	0.217	0.602	0.658	0.003	0.82	0.88
		Left Tilted	0.283	0.589	0.638	0.001	0.87	0.92
	Band 41	Right Cheek	0.241	0.954	1.159	0.024	1.20	1.42
		Right Tilted	0.103	1.163	1.120	0.024	1.27	1.25
		Left Cheek	0.137	0.602	0.658	0.003	0.74	0.80
		Left Tilted	0.173	0.589	0.638	0.001	0.76	0.81

16.2 Hotspot Exposure Conditions

WWAN Band		Exposure Position	1	2	3	4	1+2			1+3+4		
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed 1g SAR (W/kg)	SPLSR	Case No	Summed 1g SAR (W/kg)	SPLSR	Case No
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
GSM	GSM850	Front	0.711	0.517	0.297	0.038	1.23			1.05		
		Back	1.247	1.073	1.106	0.067	2.32	0.02	#01	2.42	0.03	#02
		Left Side	0.548	0.162	0.153	0.011	0.71			0.71		
		Right Side	0.262				0.26			0.26		
		Top Side		0.824	0.251	0.057	0.82			0.31		
	GSM1900	Bottom Side	0.432				0.43			0.43		
		Front	0.947	0.517	0.297	0.038	1.46			1.28		
		Back	1.419	1.073	1.106	0.067	2.49	0.02	#03	2.59	0.03	#04
		Left Side	0.033	0.162	0.153	0.011	0.20			0.20		
		Right Side	0.036				0.04			0.04		
WCDMA	Band V	Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	1.364				1.36			1.36		
		Front	0.665	0.517	0.297	0.038	1.18			1.00		
		Back	1.374	1.073	1.106	0.067	2.45	0.03	#05	2.55	0.03	#06
		Left Side	0.562	0.162	0.153	0.011	0.72			0.73		
	Band IV	Right Side	0.384				0.38			0.38		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.595				0.60			0.60		
		Front	0.920	0.517	0.297	0.038	1.44			1.26		
		Back	1.378	1.073	1.106	0.067	2.45	0.03	#07	2.55	0.03	#08
	Band II	Left Side	0.072	0.162	0.153	0.011	0.23			0.24		
		Right Side	0.050				0.05			0.05		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	1.283				1.28			1.28		
		Front	0.811	0.517	0.297	0.038	1.33			1.15		
		Back	1.350	1.073	1.106	0.067	2.42	0.03	#09	2.52	0.03	#10
		Left Side	0.069	0.162	0.153	0.011	0.23			0.23		
CDMA2000	BC0	Right Side	0.034				0.03			0.03		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	1.060				1.06			1.06		
		Front	0.876	0.517	0.297	0.038	1.39			1.21		
		Back	1.390	1.073	1.106	0.067	2.46	0.02	#11	2.56	0.03	#12
	BC1	Left Side	0.560	0.162	0.153	0.011	0.72			0.72		
		Right Side	0.214				0.21			0.21		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.685				0.69			0.69		
		Front	0.583	0.517	0.297	0.038	1.10			0.92		
	BC10	Back	1.157	1.073	1.106	0.067	2.23	0.02	#13	2.33	0.02	#14
		Left Side	0.326	0.162	0.153	0.011	0.49			0.49		
		Right Side	0.302				0.30			0.30		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.992				0.99			0.99		
		Front	0.760	0.517	0.297	0.038	1.28			1.10		
		Back	1.292	1.073	1.106	0.067	2.37	0.02	#15	2.47	0.02	#16
		Left Side	0.636	0.162	0.153	0.011	0.80			0.80		
		Right Side	0.294				0.29			0.29		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.599				0.60			0.60		



WWAN Band		Exposure Position	1	2	3	4	1+2			1+3+4		
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed 1g SAR (W/kg)	SPLSR	Case No	Summed 1g SAR (W/kg)	SPLSR	Case No
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
LTE	Band 71	Front	0.381	0.517	0.297	0.038	0.90			0.72		
		Back	0.835	1.073	1.106	0.067	1.91	0.02	#17	2.01	0.02	#18
		Left Side	0.367	0.162	0.153	0.011	0.53			0.53		
		Right Side	0.217				0.22			0.22		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.427				0.43			0.43		
	Band 12	Front	0.529	0.517	0.297	0.038	1.05			0.86		
		Back	0.858	1.073	1.106	0.067	1.93	0.02	#19	2.03	0.02	#20
		Left Side	0.545	0.162	0.153	0.011	0.71			0.71		
		Right Side	0.286				0.29			0.29		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.469				0.47			0.47		
	Band 13	Front	0.612	0.517	0.297	0.038	1.13			0.95		
		Back	1.197	1.073	1.106	0.067	2.27	0.02	#21	2.37	0.02	#22
		Left Side	0.601	0.162	0.153	0.011	0.76			0.77		
		Right Side	0.308				0.31			0.31		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.502				0.50			0.50		
	Band 26	Front	0.598	0.517	0.297	0.038	1.12			0.93		
		Back	1.257	1.073	1.106	0.067	2.33	0.02	#23	2.43	0.03	#24
		Left Side	0.567	0.162	0.153	0.011	0.73			0.73		
		Right Side	0.270				0.27			0.27		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.583				0.58			0.58		
	Band 66	Front	0.827	0.517	0.297	0.038	1.34			1.16		
		Back	1.278	1.073	1.106	0.067	2.35	0.02	#25	2.45	0.03	#26
		Left Side	0.070	0.162	0.153	0.011	0.23			0.23		
		Right Side	0.052				0.05			0.05		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	1.437				1.44			1.44		
	Band 25	Front	0.718	0.517	0.297	0.038	1.24			1.05		
		Back	1.275	1.073	1.106	0.067	2.35	0.02	#27	2.45	0.03	#28
		Left Side	0.039	0.162	0.153	0.011	0.20			0.20		
		Right Side	0.037				0.04			0.04		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	1.230				1.23			1.23		
	Band 7	Front	0.738	0.517	0.297	0.038	1.26			1.07		
		Back	1.319	1.073	1.106	0.067	2.39	0.03	#29	2.49	0.03	#30
		Left Side	0.077	0.162	0.153	0.011	0.24			0.24		
		Right Side	0.551				0.55			0.55		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.743				0.74			0.74		
	Band 41	Front	0.506	0.517	0.297	0.038	1.02			0.84		
		Back	1.378	1.073	1.106	0.067	2.45	0.03	#31	2.55	0.03	#32
		Left Side	0.056	0.162	0.153	0.011	0.22			0.22		
		Right Side	0.364				0.36			0.36		
		Top Side		0.824	0.251	0.057	0.82			0.31		
		Bottom Side	0.412				0.41			0.41		



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band		Exposure Position	1	2	3	4	1+2			1+3+4		
			WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth	Summed 1g SAR (W/kg)	SPLSR	Case No	Summed 1g SAR (W/kg)	SPLSR	Case No
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
GSM	GSM850	Front	0.711	0.517	0.297	0.038	1.23			1.05		
		Back	1.247	1.073	1.127	0.067	2.32	0.02	#01	2.44	0.03	#33
		Back with Headset	1.252				1.25			1.25		
	GSM1900	Front	0.947	0.517	0.297	0.038	1.46			1.28		
		Back	1.419	1.073	1.127	0.067	2.49	0.02	#03	2.61	0.03	#34
		Back with Headset	1.395				1.40			1.40		
WCDMA	Band V	Front	0.665	0.517	0.297	0.038	1.18			1.00		
		Back	1.374	1.073	1.127	0.067	2.45	0.03	#05	2.57	0.03	#35
		Back with Headset	1.176				1.18			1.18		
	Band IV	Front	0.920	0.517	0.297	0.038	1.44			1.26		
		Back	1.378	1.073	1.127	0.067	2.45	0.03	#07	2.57	0.03	#36
		Back with Headset	1.378				1.38			1.38		
	Band II	Front	0.811	0.517	0.297	0.038	1.33			1.15		
		Back	1.350	1.073	1.127	0.067	2.42	0.03	#09	2.54	0.03	#37
		Back with Headset	1.313				1.31			1.31		
CDMA2000	BC0	Front	0.950	0.517	0.297	0.038	1.47			1.29		
		Back	1.289	1.073	1.127	0.067	2.36	0.02	#38	2.48	0.03	#39
		Back with Headset	1.265				1.27			1.27		
	BC1	Front	0.582	0.517	0.297	0.038	1.10			0.92		
		Back	1.186	1.073	1.127	0.067	2.26	0.02	#40	2.38	0.02	#41
	BC10	Front	0.747	0.517	0.297	0.038	1.26			1.08		
LTE	Band 71	Front	0.381	0.517	0.297	0.038	0.90			0.72		
		Back	0.835	1.073	1.127	0.067	1.91	0.02	#17	2.03	0.02	#44
	Band 12	Front	0.529	0.517	0.297	0.038	1.05			0.86		
		Back	0.858	1.073	1.127	0.067	1.93	0.02	#19	2.05	0.02	#45
	Band 13	Front	0.612	0.517	0.297	0.038	1.13			0.95		
		Back	1.197	1.073	1.127	0.067	2.27	0.02	#21	2.39	0.02	#46
	Band 26	Front	0.598	0.517	0.297	0.038	1.12			0.93		
		Back	1.257	1.073	1.127	0.067	2.33	0.02	#23	2.45	0.03	#47
	Band 66	Back with Headset	1.233				1.23			1.23		
		Front	0.827	0.517	0.297	0.038	1.34			1.16		
		Back	1.278	1.073	1.127	0.067	2.35	0.02	#25	2.47	0.03	#48
	Band 25	Back with Headset	1.254				1.25			1.25		
		Front	0.718	0.517	0.297	0.038	1.24			1.05		
		Back	1.275	1.073	1.127	0.067	2.35	0.02	#27	2.47	0.03	#49
	Band 7	Back with Headset	1.263				1.26			1.26		
		Front	0.738	0.517	0.297	0.038	1.26			1.07		
		Back	1.319	1.073	1.127	0.067	2.39	0.03	#29	2.51	0.03	#50
	Band 41	Back with Headset	0.811				0.81			0.81		
		Front	0.506	0.517	0.297	0.038	1.02			0.84		
		Back	1.378	1.073	1.127	0.067	2.45	0.03	#31	2.57	0.03	#51
		Back with Headset	0.865				0.87			0.87		

16.4 Product specific 10g SAR Exposure Conditions

WWAN Band		Exposure Position	1	2	1+2		
			WWAN Bottom	5GHz WLAN	Summed 10g SAR (W/kg)	SPLSR	Case No
			10g SAR (W/kg)	10g SAR (W/kg)			
GSM	GSM850	Back	2.490	0.706	3.20		
	GSM1900	Front	2.795	0.439	3.23		
		Back	3.480	0.706	4.19	0.06	#55
		Bottom Side	3.581		3.58		
WCDMA	Band V	Back	1.688	0.706	2.39		
	Band IV	Front	2.776	0.439	3.22		
		Back	3.478	0.706	4.18	0.05	#52
		Bottom Side	3.395		3.40		
	Band II	Front	1.683	0.439	2.12		
		Back	2.759	0.706	3.47		
		Bottom Side	3.095		3.10		
CDMA2000	BC0	Back	1.363	0.706	2.07		
	BC1	Back	3.559	0.706	4.27	0.06	#53
		Bottom Side	3.159		3.16		
	BC10	Back	0.913	0.706	1.62		
	Band 13	Back	2.312	0.706	3.02		
	Band 26	Back	2.399	0.706	3.11		
	Band 66	Front	1.983	0.439	2.42		
		Back	2.892	0.706	3.60		
		Bottom Side	3.145		3.15		
	Band 25	Front	2.420	0.439	2.86		
		Back	3.057	0.706	3.76		
		Bottom Side	3.597		3.60		
	Band 7	Front	1.856	0.439	2.30		
		Back	3.188	0.706	3.89		
		Bottom Side	1.633		1.63		
	Band 41	Back	3.380	0.706	4.09	0.06	#54

Remark:

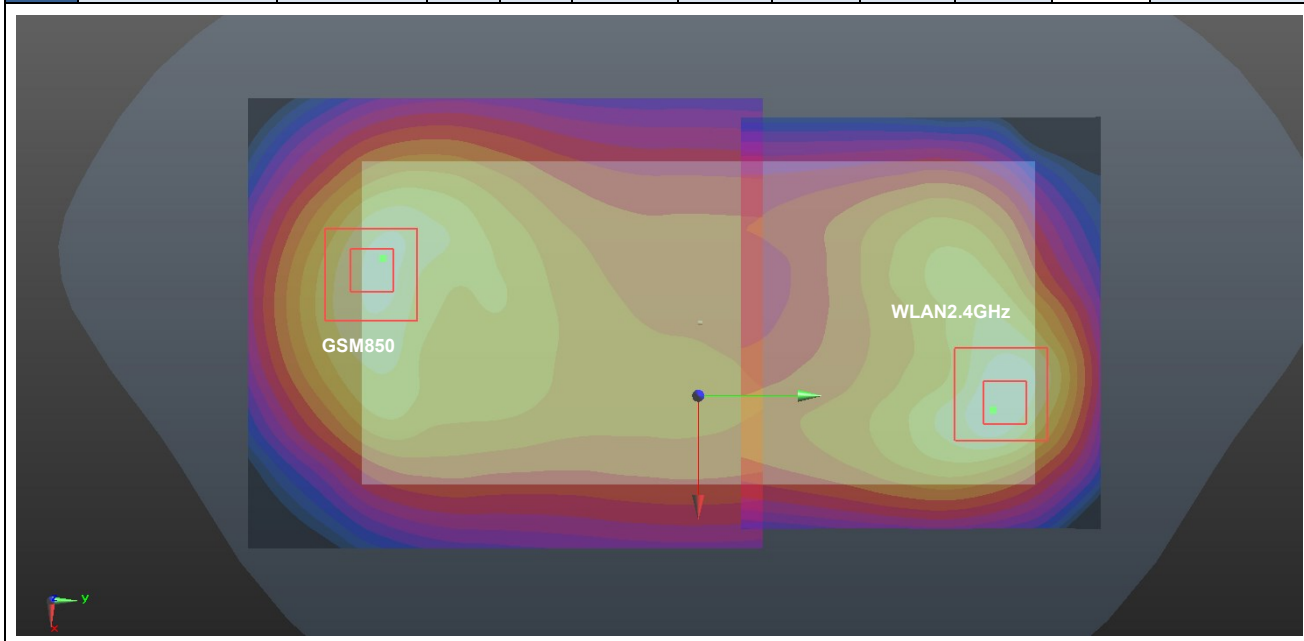
- For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
- If SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

16.5 SPLSR Evaluation and Analysis

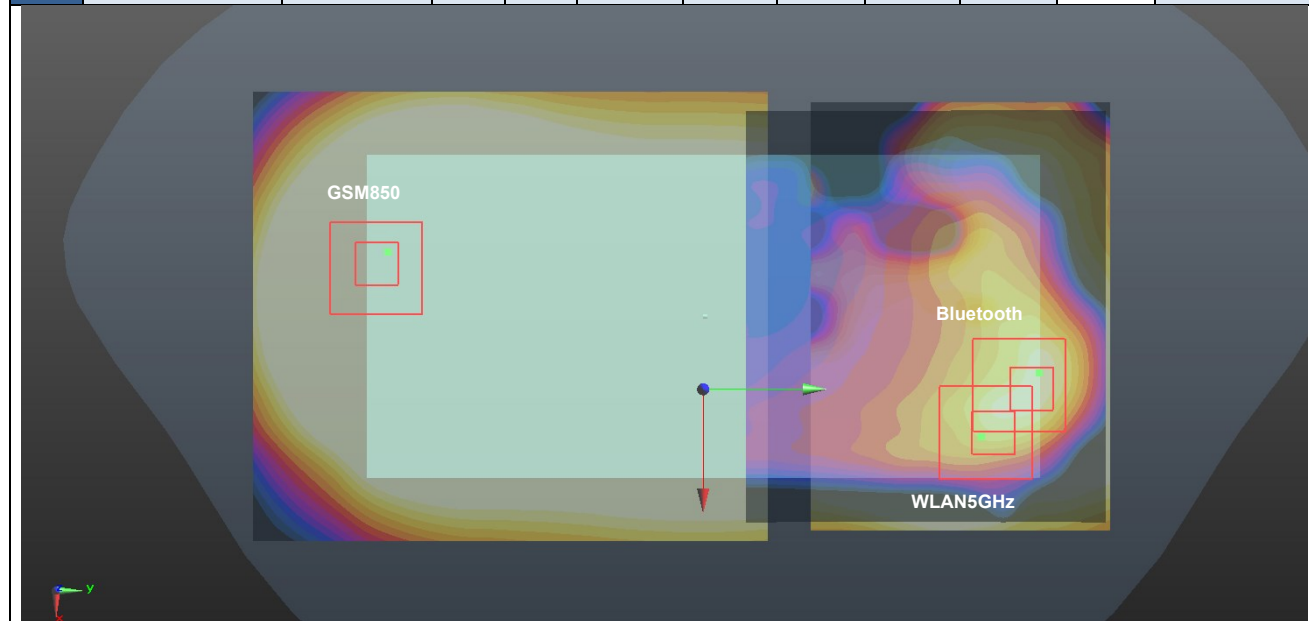
General Note:

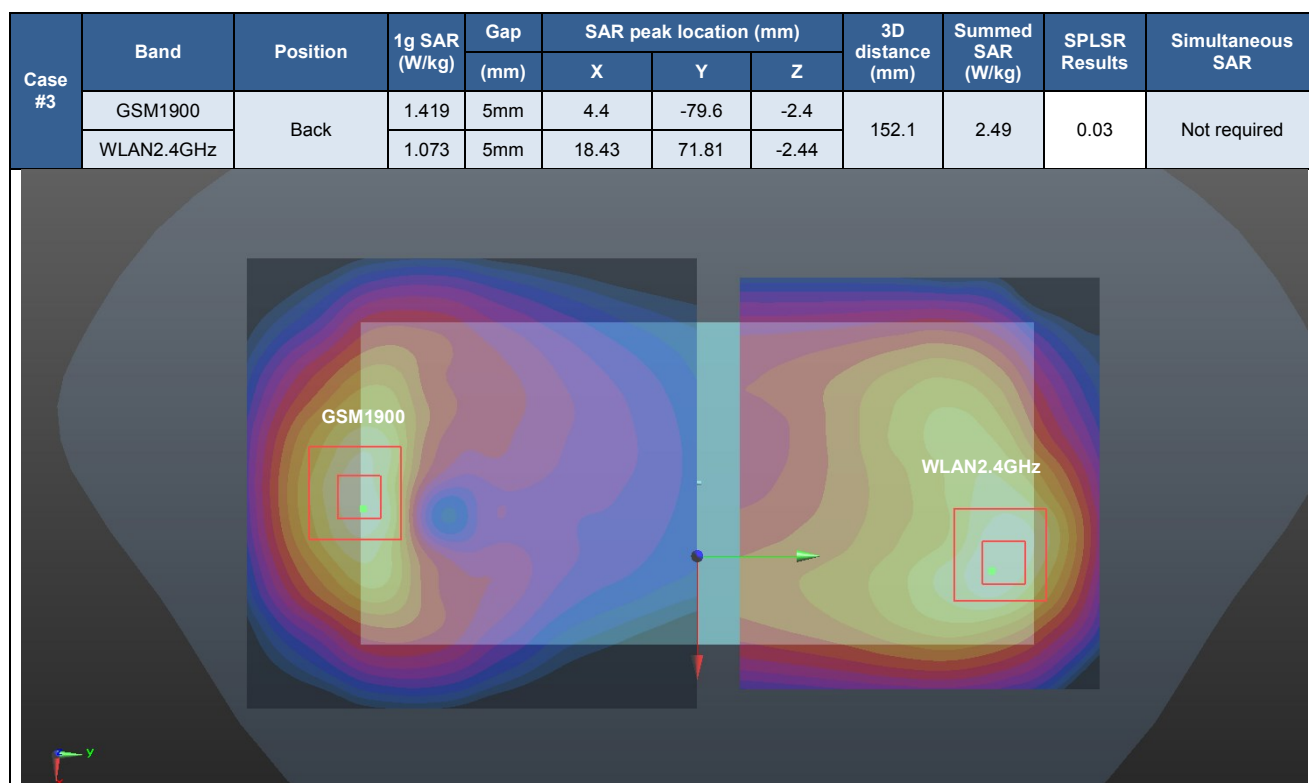
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.

Case #1	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM850	Back	1.247	5mm	-15	-75.1	-3.79	150.7	2.32	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				

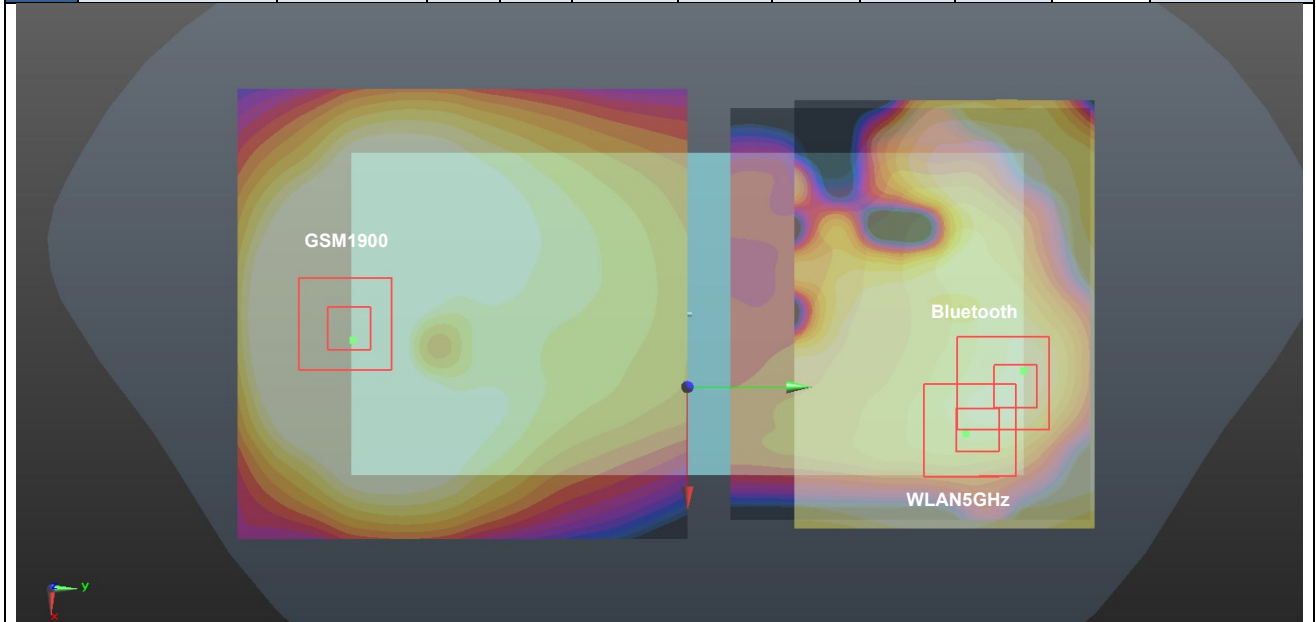


	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #2	GSM850	Back	1.247	5mm	-15	-75.1	-3.79	149.6	2.42	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	GSM850	Back	1.247	5mm	-15	-75.1	-3.79	154.9	2.42	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				

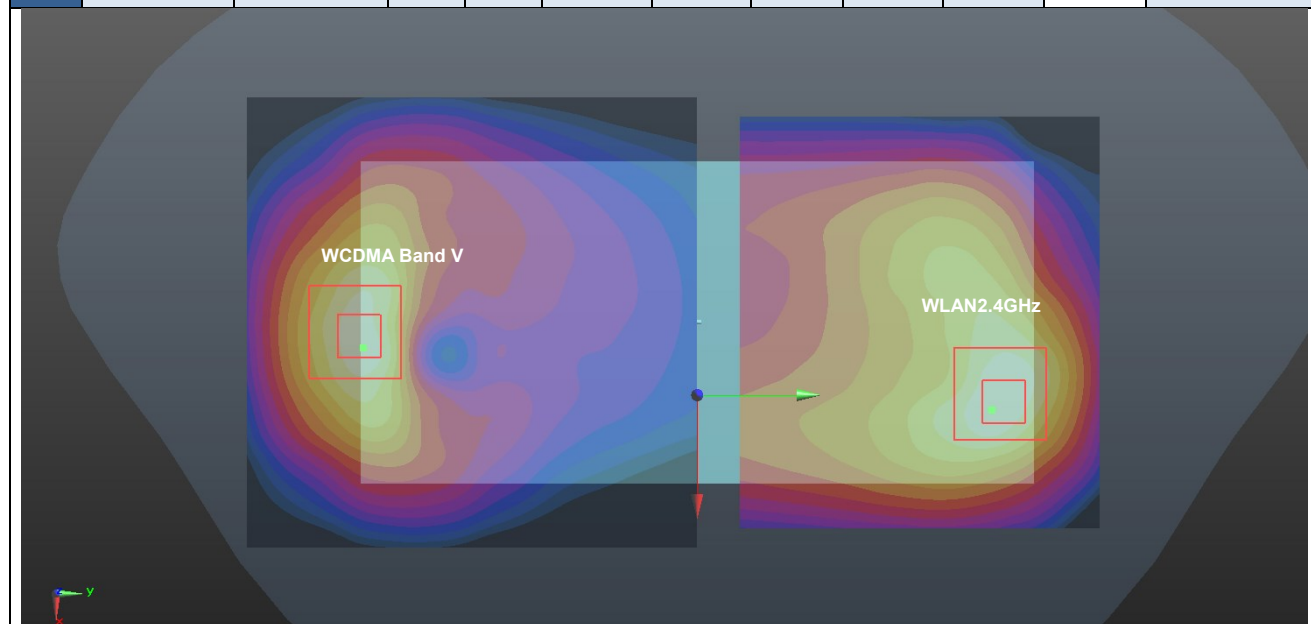




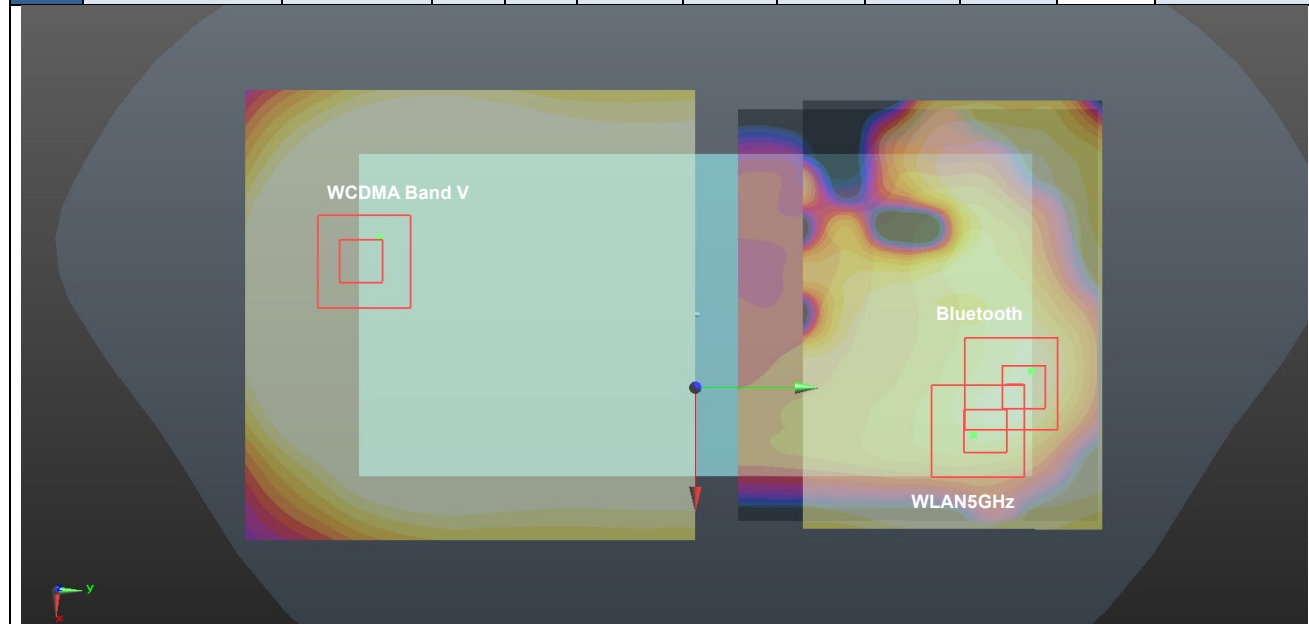
Case #4	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900	Back	1.419	5mm	4.4	-79.6	-2.4	149.7	2.59	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	GSM1900	Back	1.419	5mm	4.4	-79.6	-2.4	156.5	2.59	0.03	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



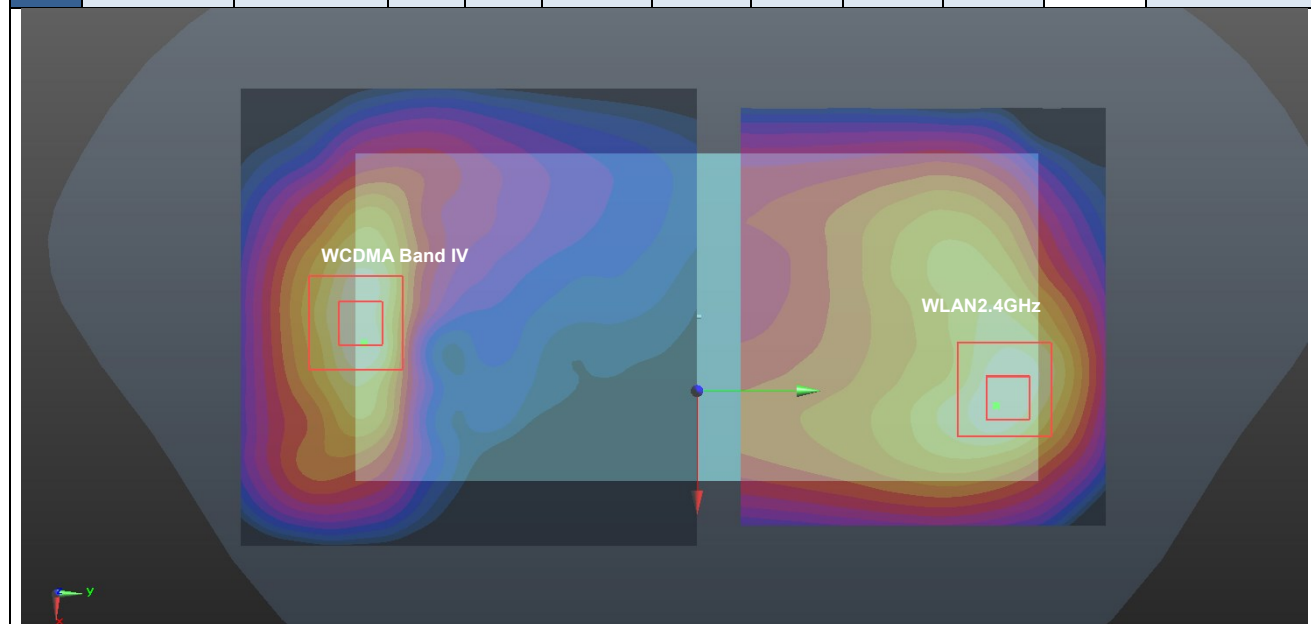
Case #5	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band V	Back	1.374	5mm	-14.8	-76.7	-3.67	152.2	2.45	0.03	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



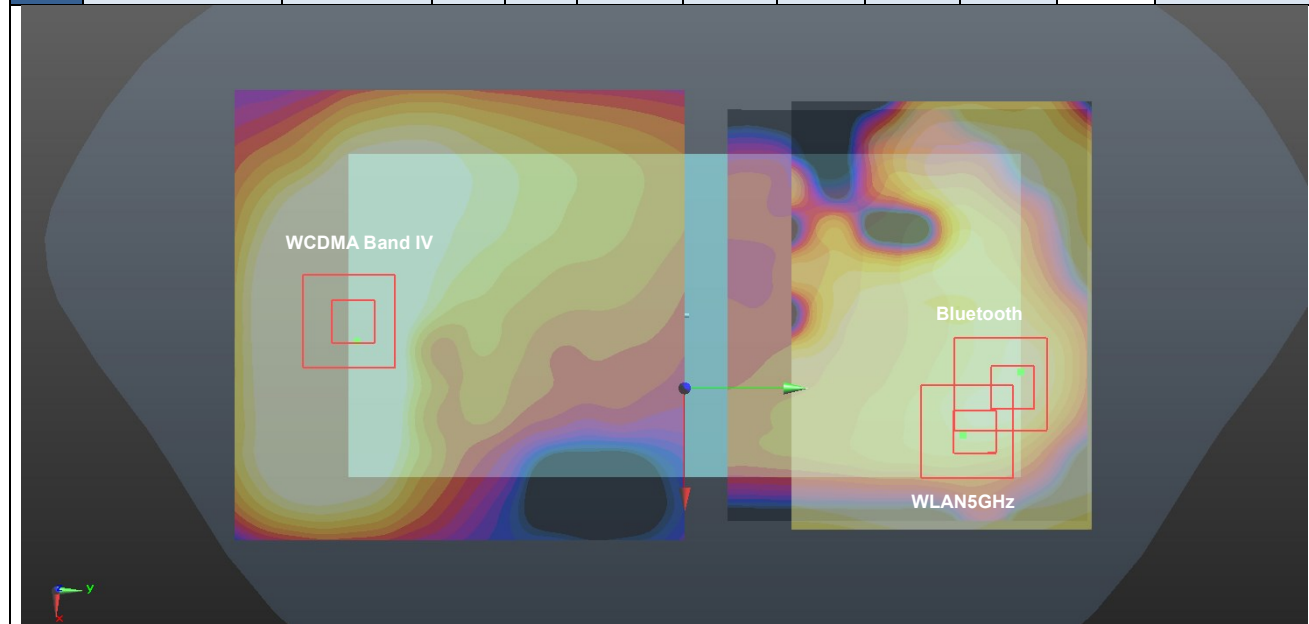
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #6	WCDMA Band V	Back	1.374	5mm	-14.8	-76.7	-3.67	151.1	2.55	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	WCDMA Band V	Back	1.374	5mm	-14.8	-76.7	-3.67	156.4	2.55	0.03	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



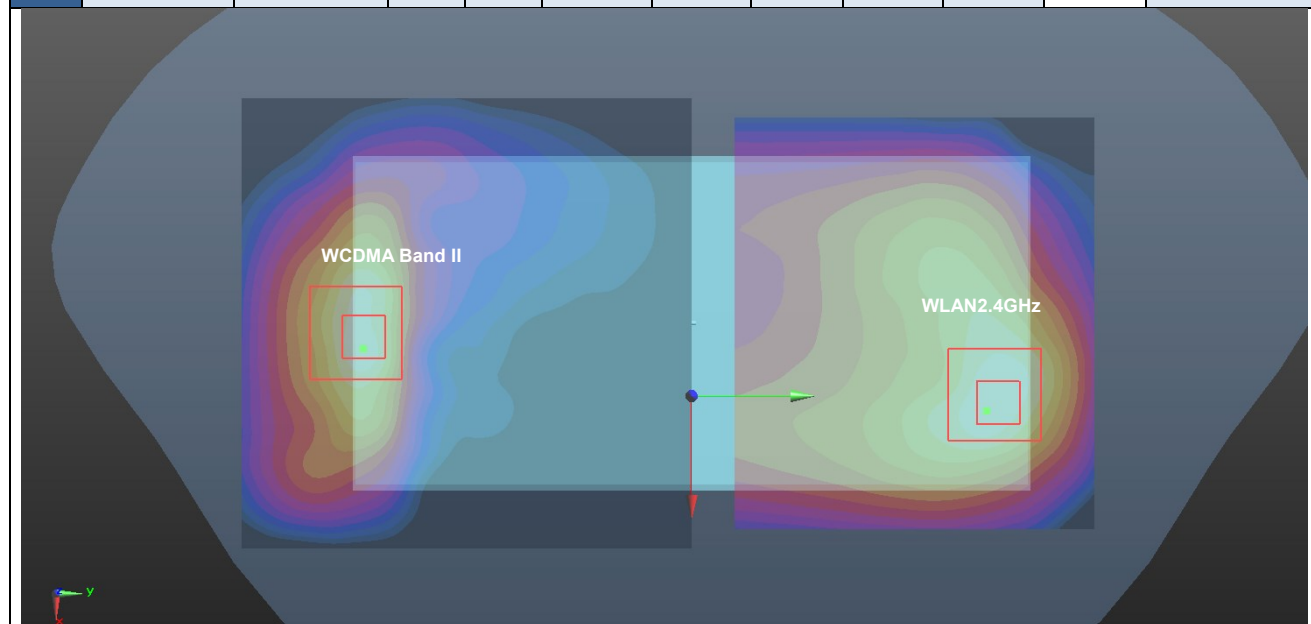
Case #7	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band IV	Back	1.378	5mm	2.8	-76.5	-2.56	149.1	2.45	0.03	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



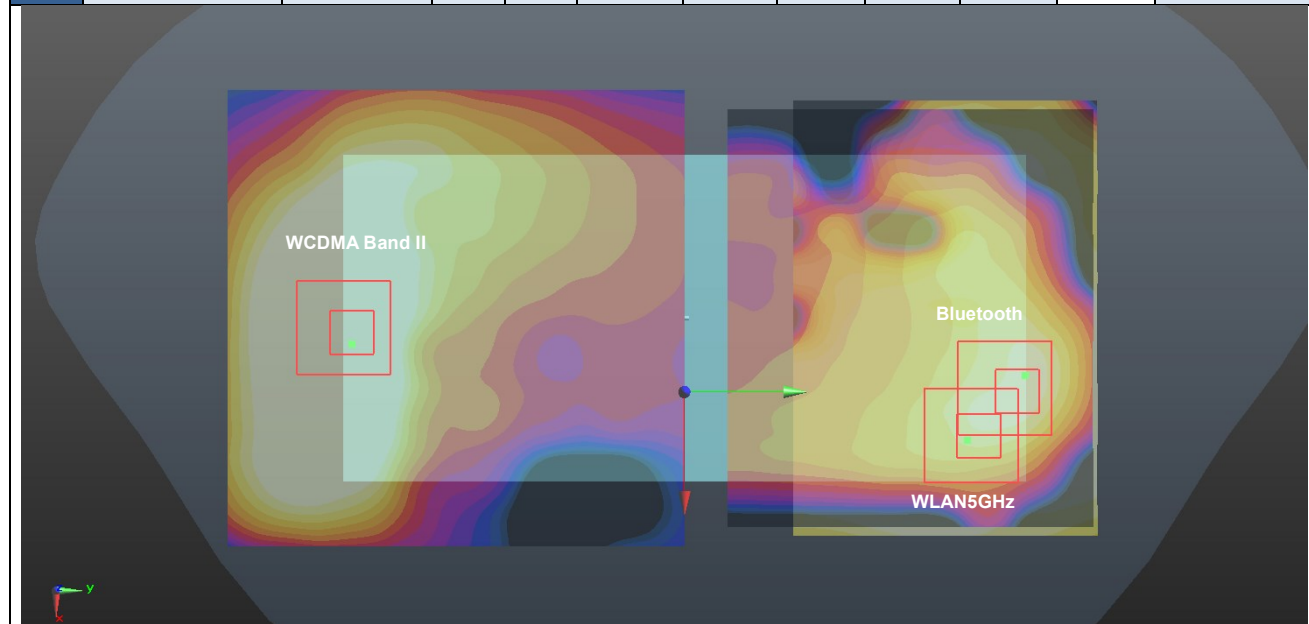
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #8	WCDMA Band IV	Back	1.378	5mm	2.8	-76.5	-2.56	146.9	2.55	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	WCDMA Band IV	Back	1.378	5mm	2.8	-76.5	-2.56	153.6	2.55	0.03	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



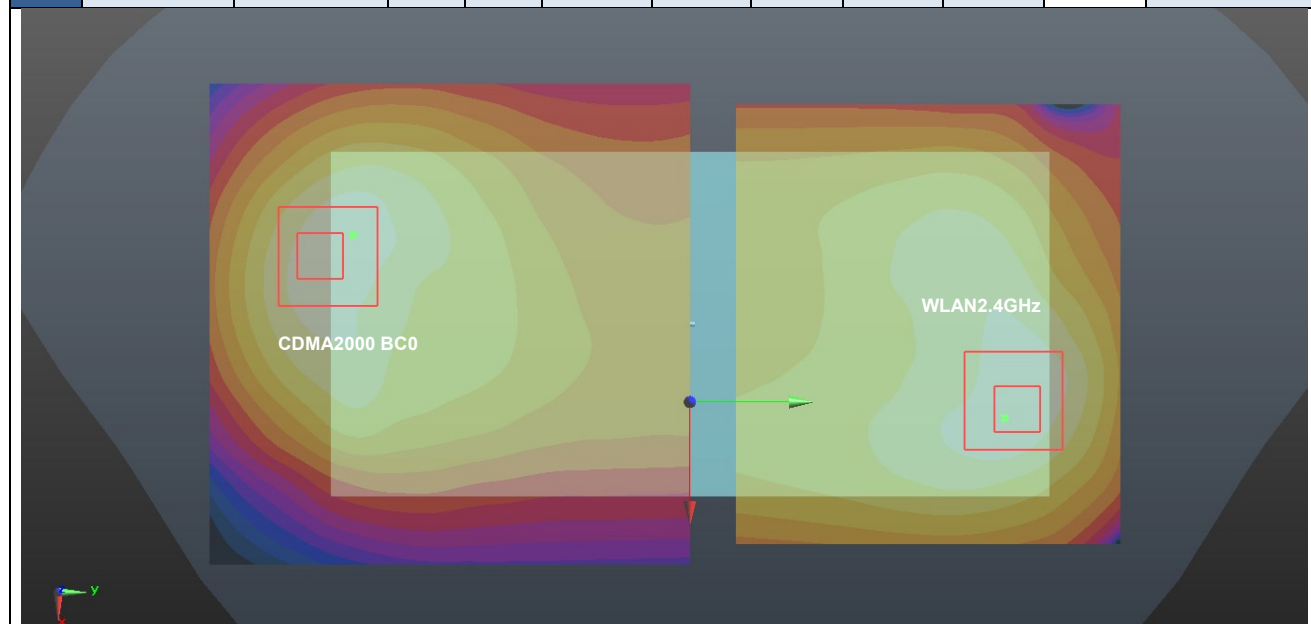
Case #9	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band II	Back	1.35	5mm	2.8	-76.5	-2.57	149.1	2.42	0.03	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



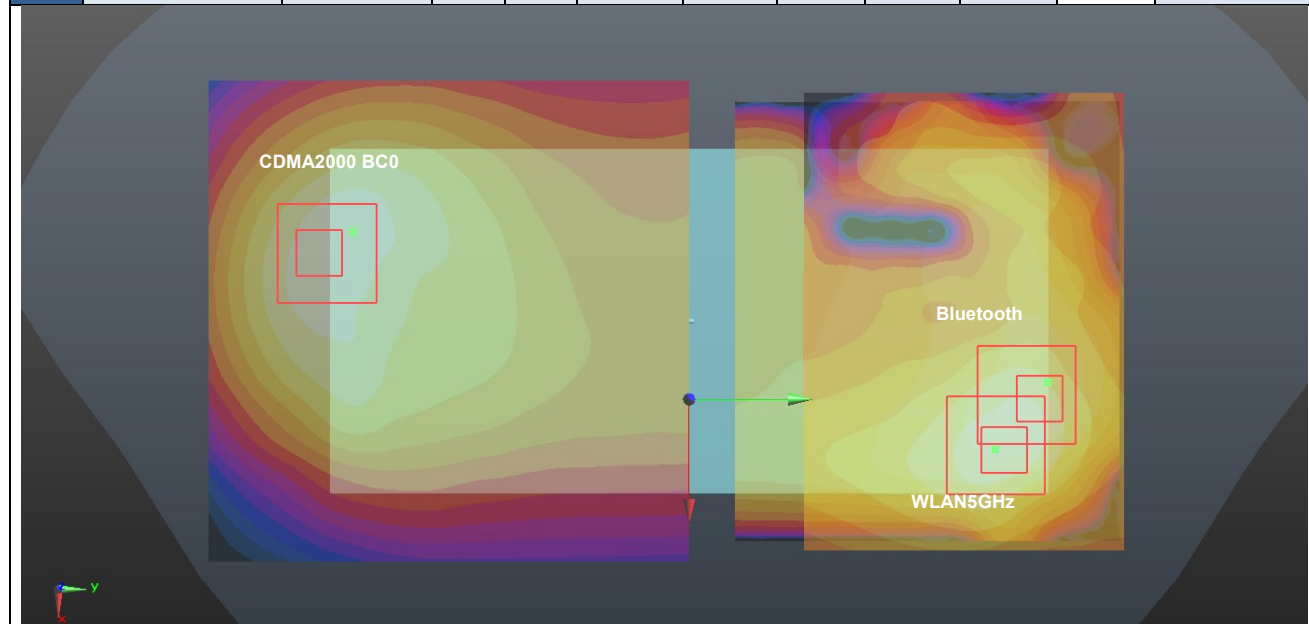
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #10	WCDMA Band II	Back	1.35	5mm	2.8	-76.5	-2.57	146.9	2.52	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	WCDMA Band II	Back	1.35	5mm	2.8	-76.5	-2.57	153.6	2.52	0.03	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



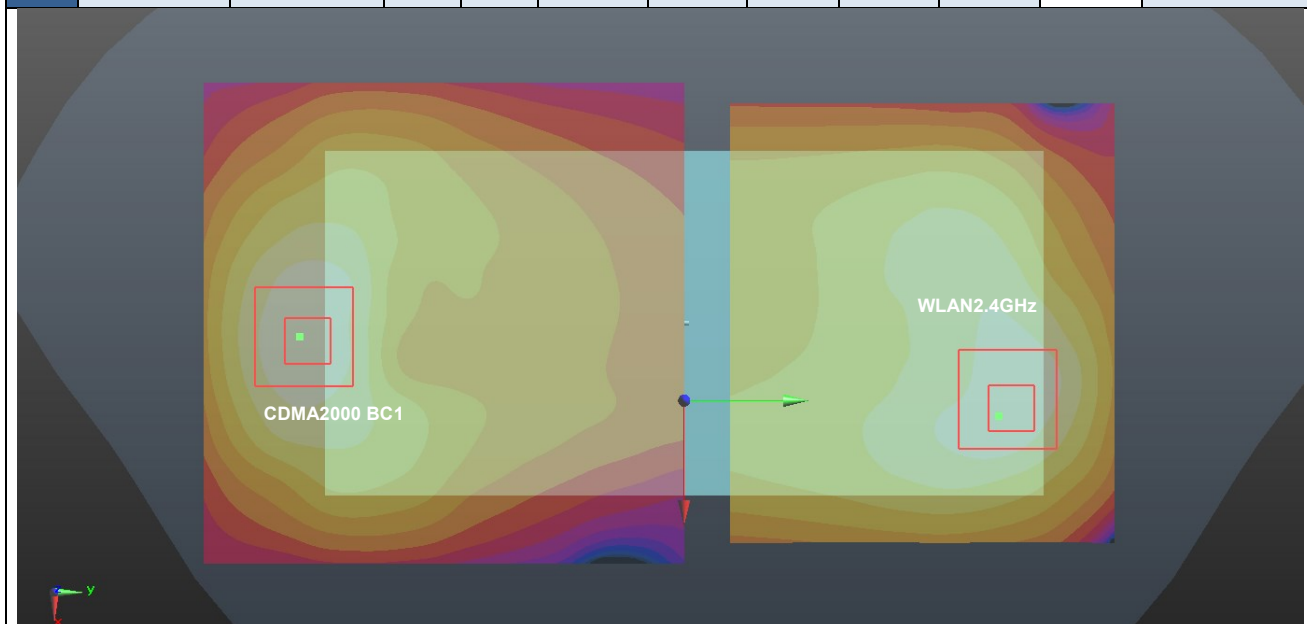
Case #11	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC0	Back	1.39	5mm	-16.3	-79.9	-1.87	155.6	2.46	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



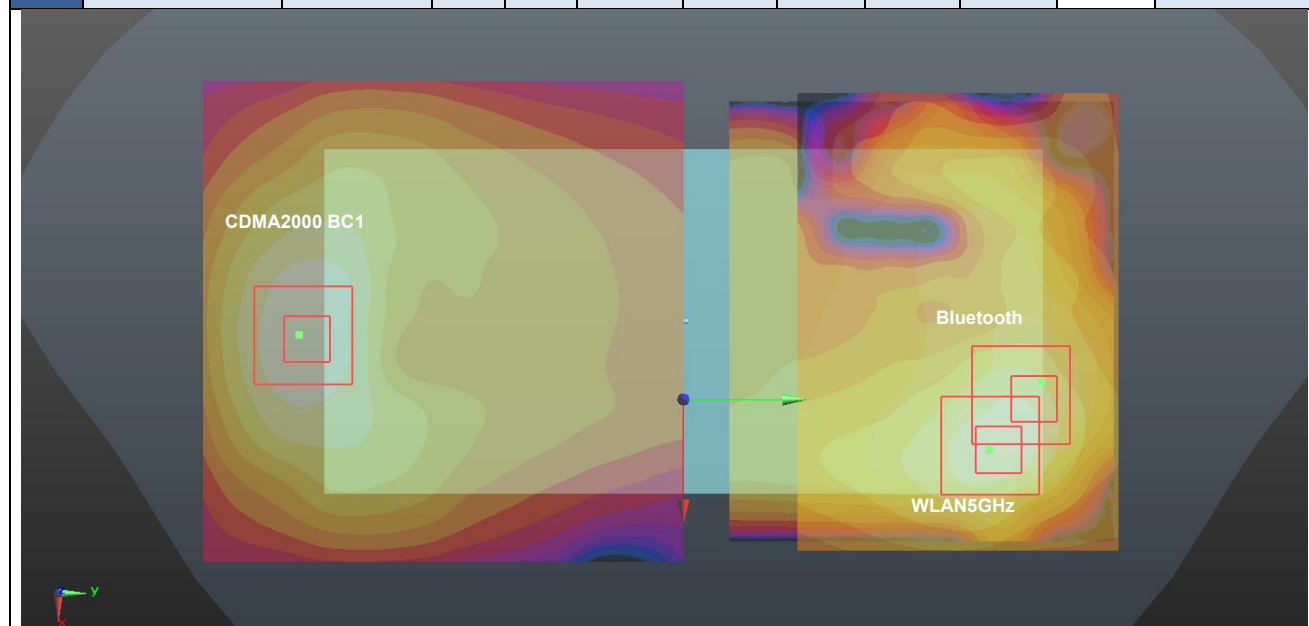
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #12	CDMA2000 BC0	Back	1.39	5mm	-16.3	-79.9	-1.87	156.5	2.56	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.01	70.2	-2.29				
	CDMA2000 BC0	Back	1.39	5mm	-16.3	-79.9	-1.87	159.9	2.56	0.03	Not required
	WLAN5GHz		1.106	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



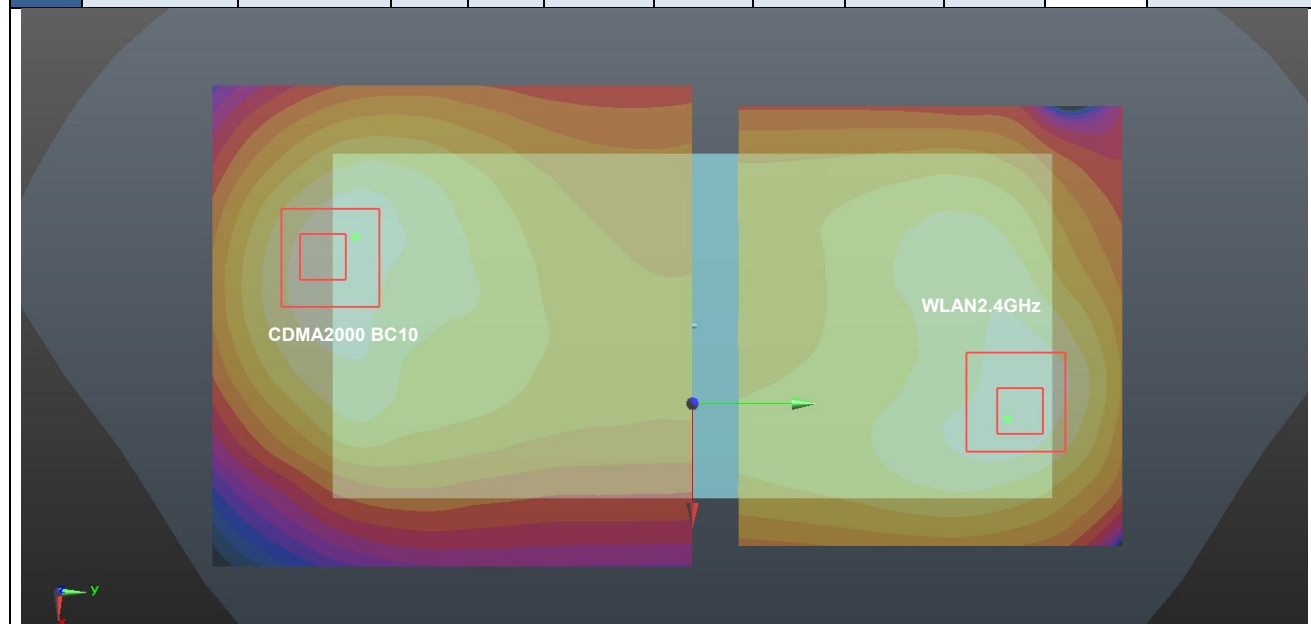
Case #13	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC1	Back	1.157	5mm	6.2	-82.4	-1.86	154.7	2.23	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



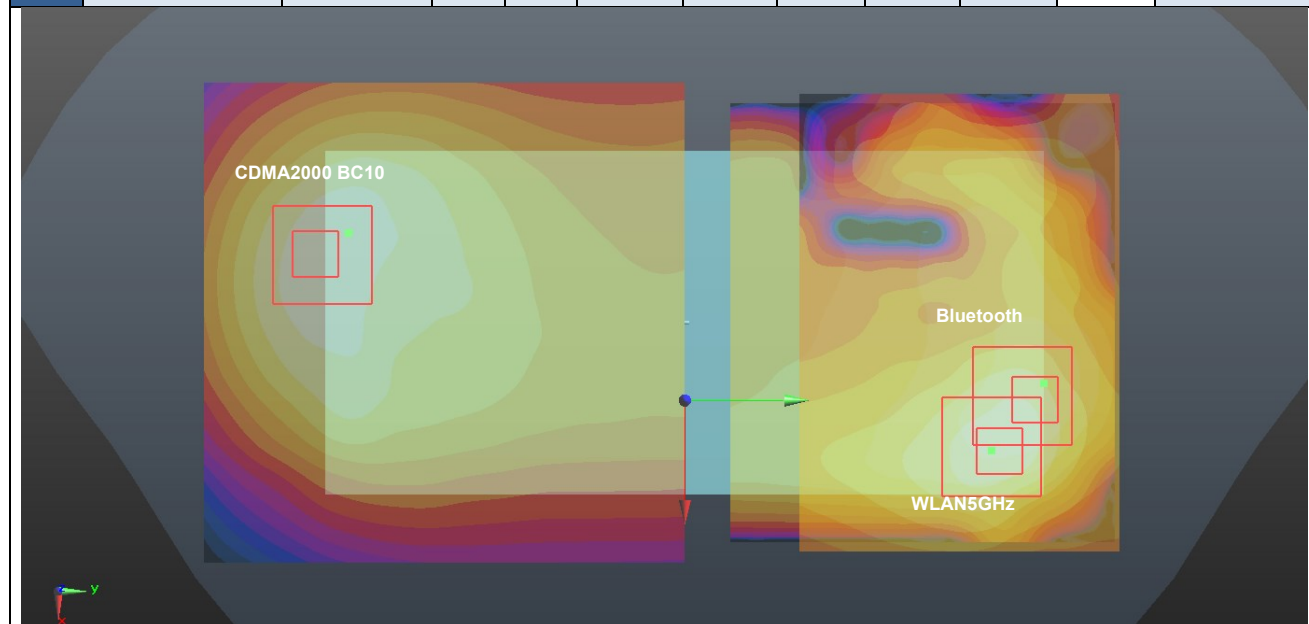
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #14	CDMA2000 BC1	Back	1.157	5mm	6.2	-82.4	-1.86	154.2	2.33	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.01	70.2	-2.29				
	CDMA2000 BC1	Back	1.157	5mm	6.2	-82.4	-1.86	159.2	2.33	0.02	Not required
	WLAN5GHz		1.106	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				

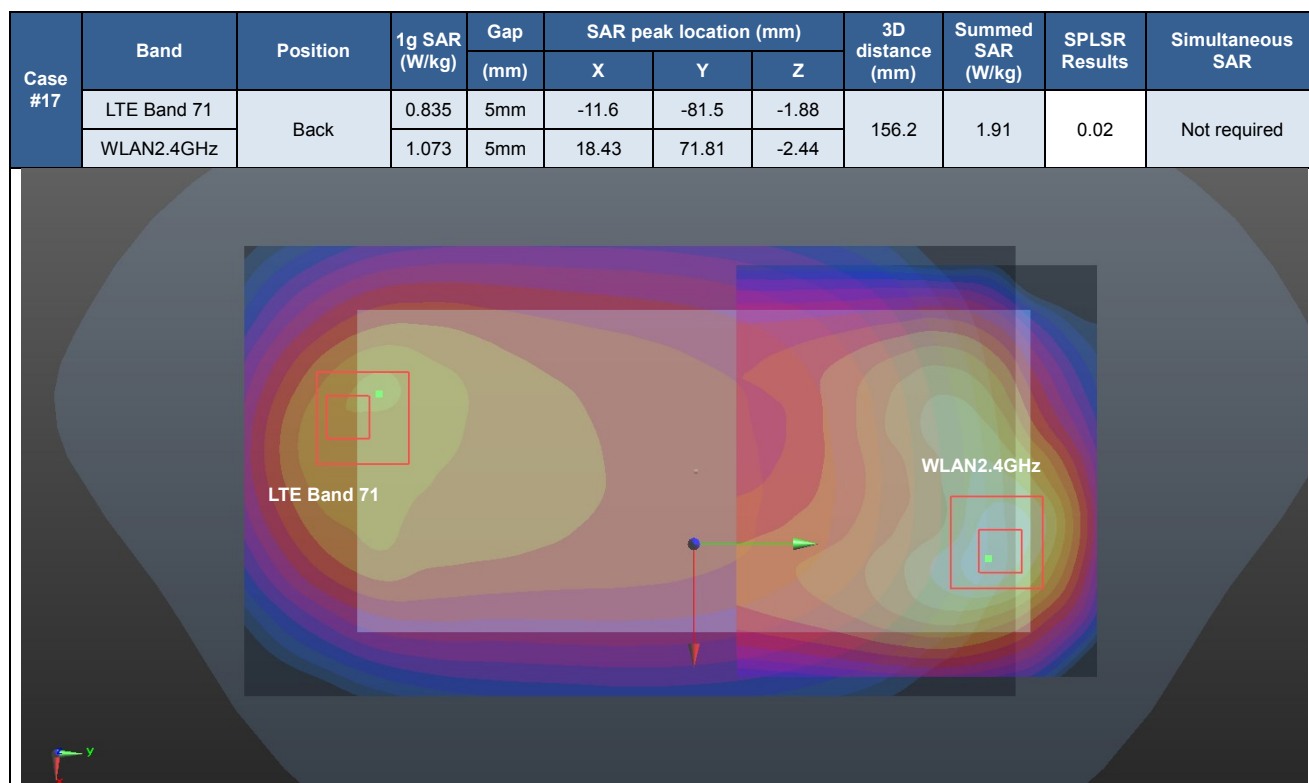


Case #15	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC10	Back	1.292	5mm	-13.2	-79.7	-1.86	154.8	2.37	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				

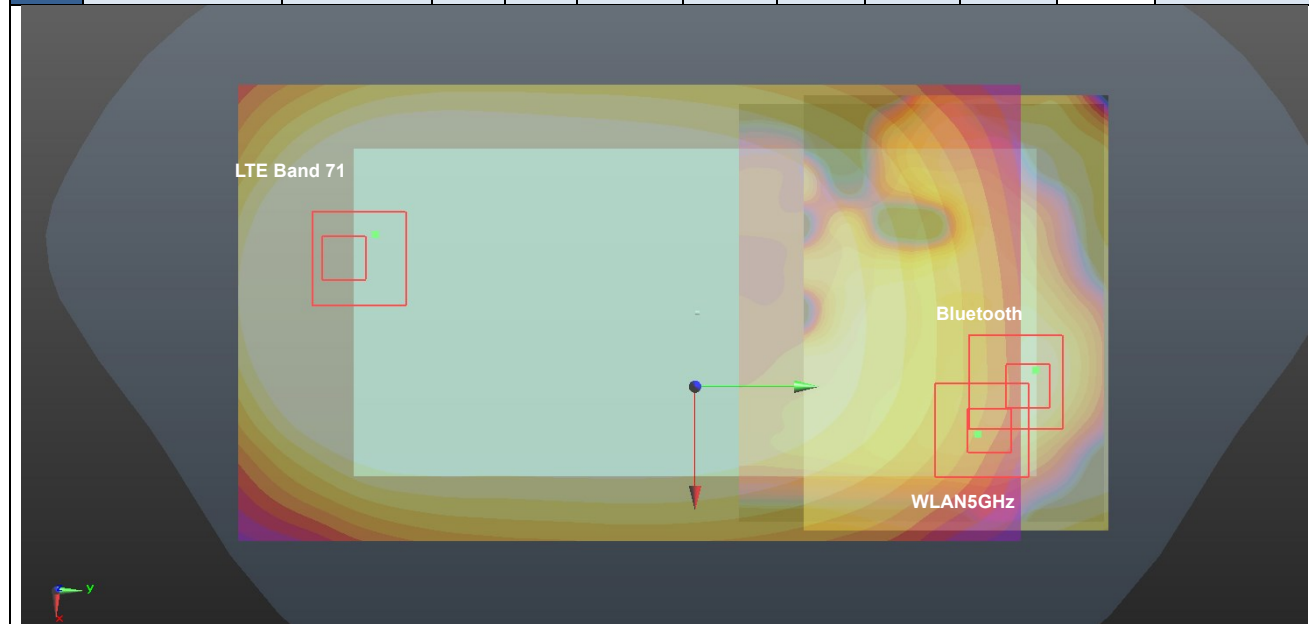


	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #16	CDMA2000 BC10	Back	1.292	5mm	-13.2	-79.7	-1.86	155.5	2.47	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.01	70.2	-2.29				
	CDMA2000 BC10	Back	1.292	5mm	-13.2	-79.7	-1.86	159.0	2.47	0.02	Not required
	WLAN5GHz		1.106	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				

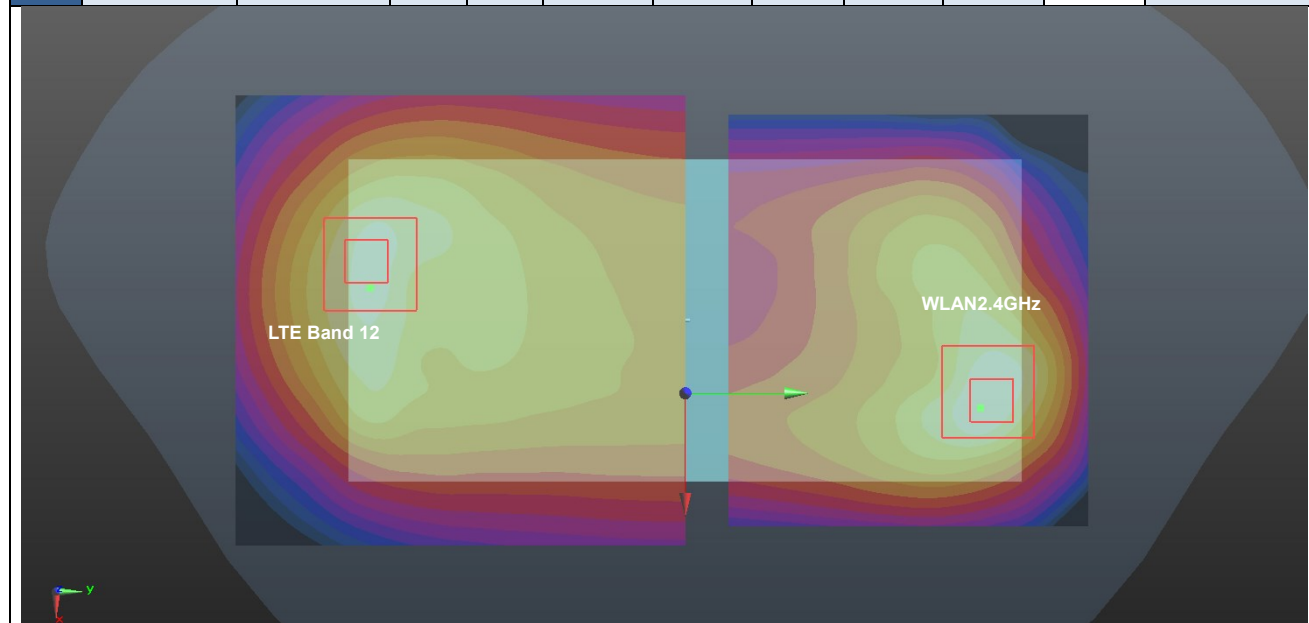




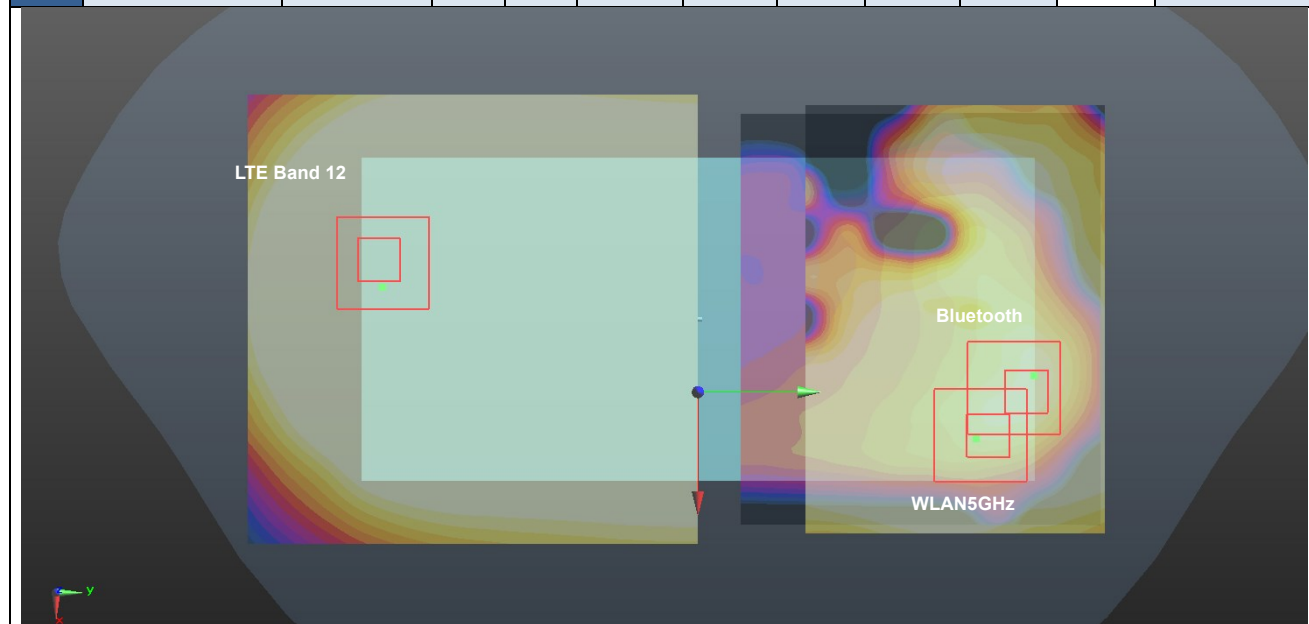
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #18	LTE Band 71	Back	0.835	5mm	-11.6	-81.5	-1.88	154.9	2.01	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 71	Back	0.835	5mm	-11.6	-81.5	-1.88	160.5	2.01	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



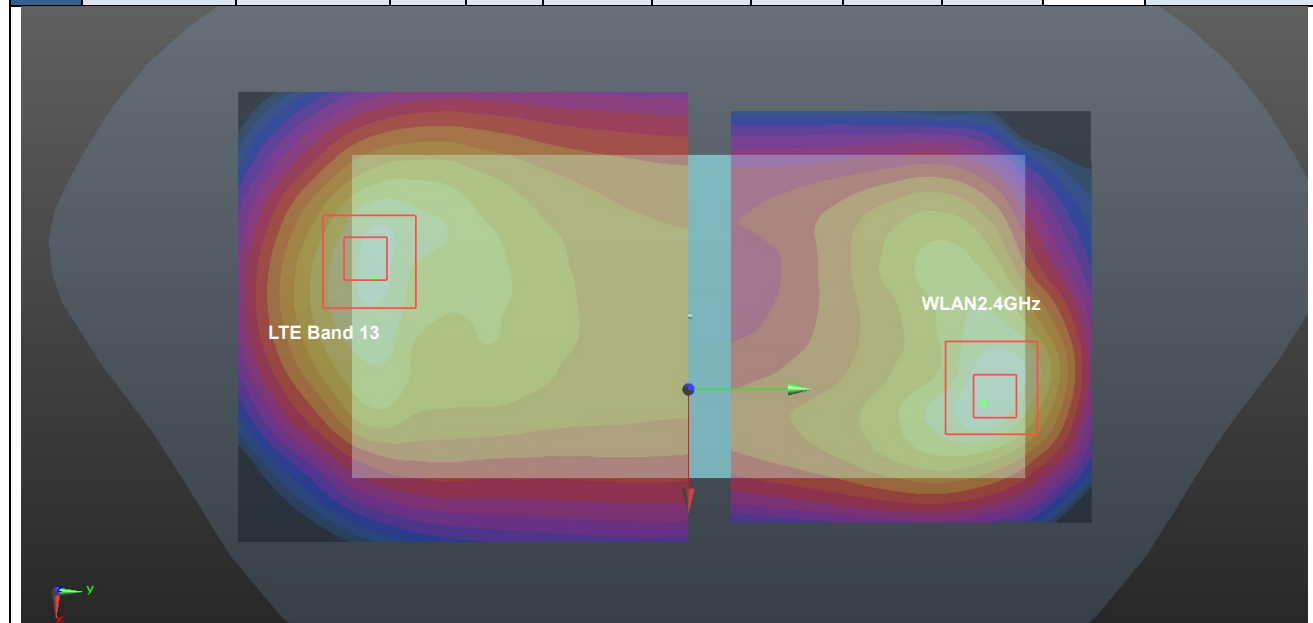
Case #19	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 12	Back	0.858	5mm	X	Y	Z	149.2	1.93	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



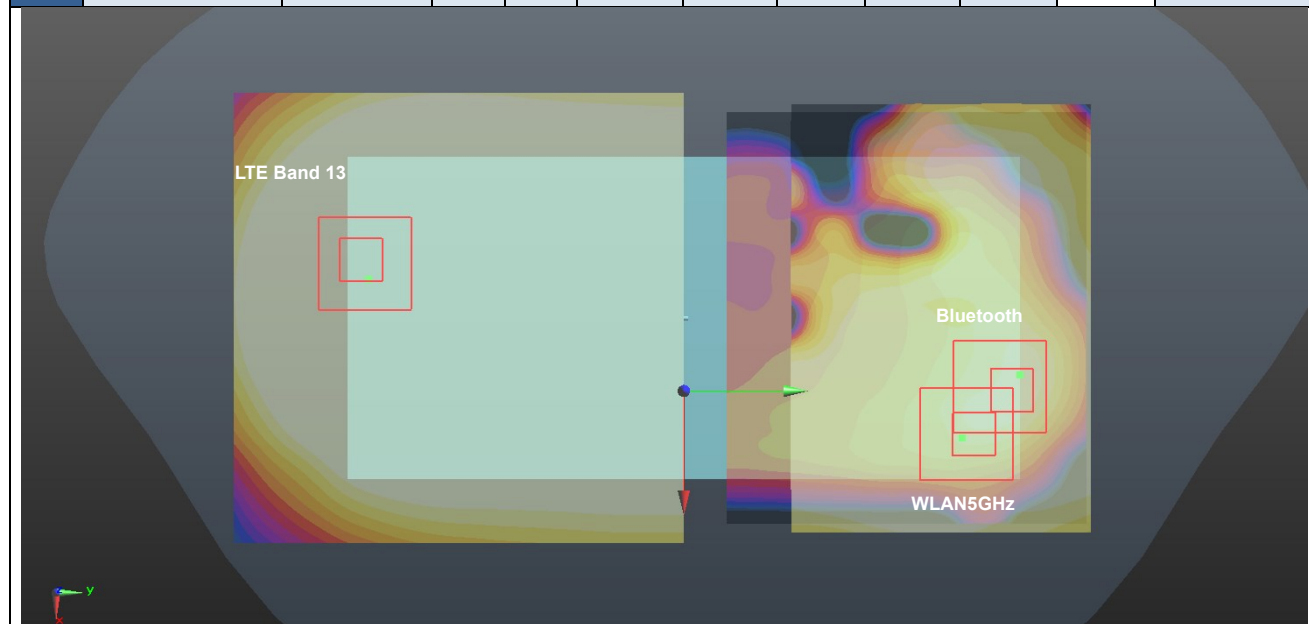
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #20	LTE Band 12	Back	0.858	5mm	-15.5	-73.5	-3.71	148.2	2.03	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 12	Back	0.858	5mm	-15.5	-73.5	-3.71	153.4	2.03	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



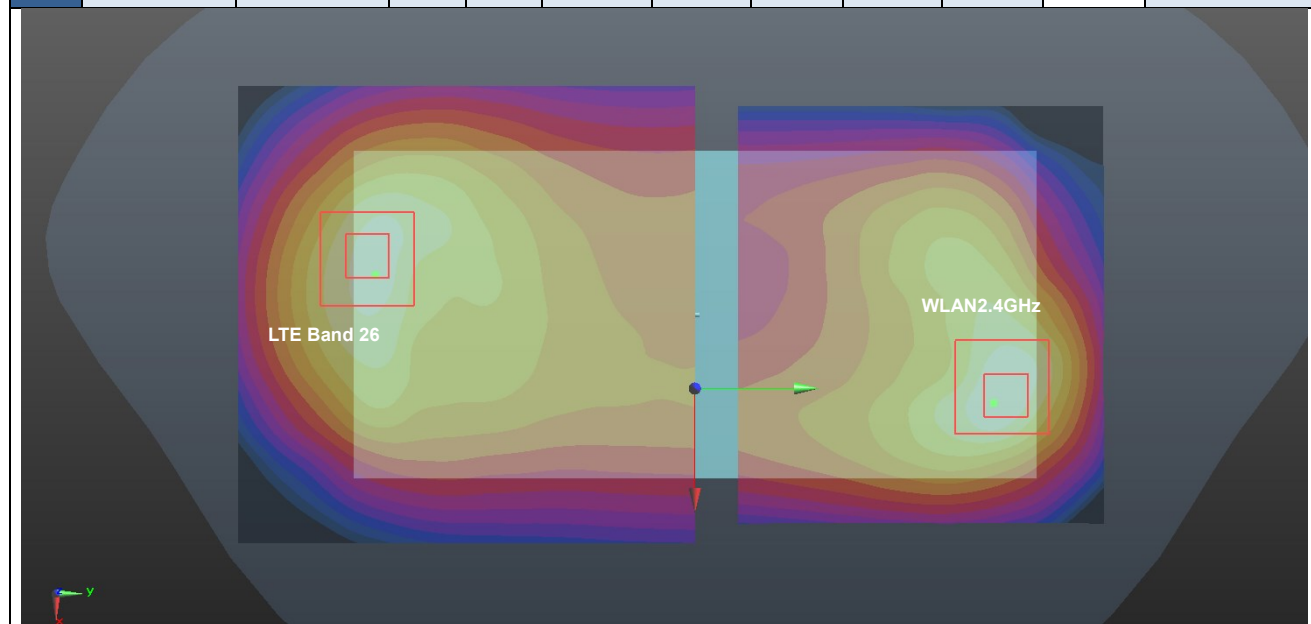
Case #21	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 13	Back	1.197	5mm	-13.8	-75.1	-3.8	150.4	2.27	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



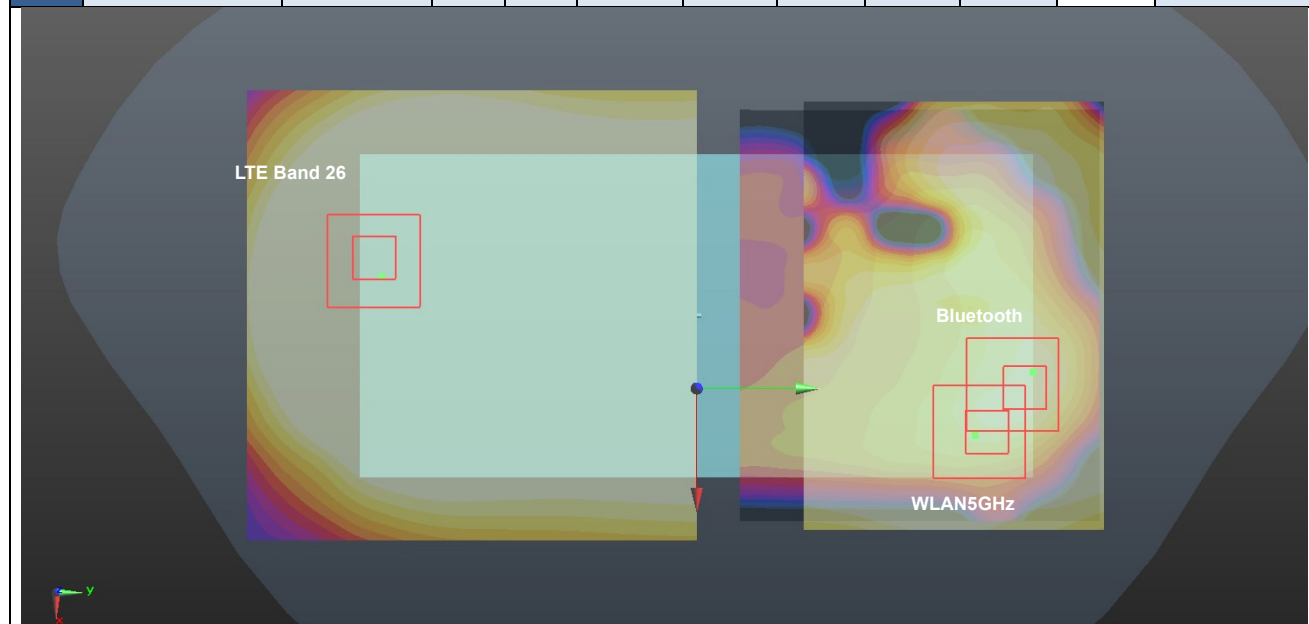
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #22	LTE Band 13	Back	1.197	5mm	-13.8	-75.1	-3.8	149.3	2.37	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 13	Back	1.197	5mm	-13.8	-75.1	-3.8	154.7	2.37	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



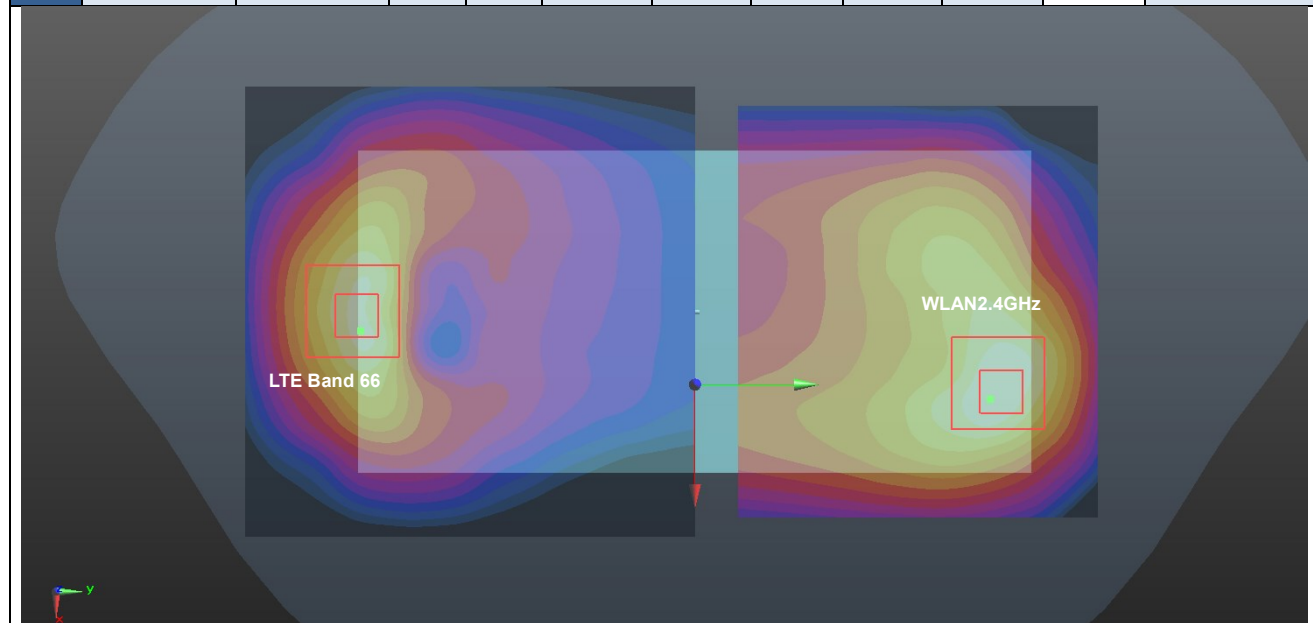
Case #23	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 26	Back	1.257	5mm	-13.8	-75.1	-3.82	150.4	2.33	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



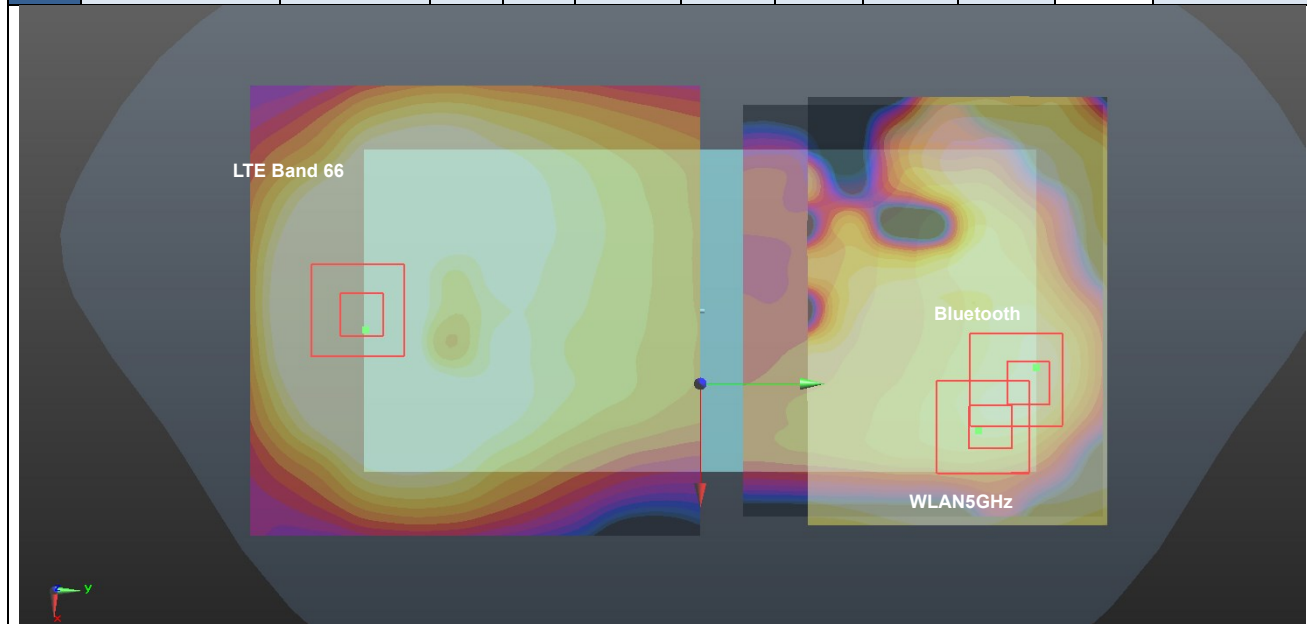
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #24	LTE Band 26	Back	1.257	5mm	-13.8	-75.1	-3.82	149.3	2.43	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 26	Back	1.257	5mm	-13.8	-75.1	-3.82	154.7	2.43	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				

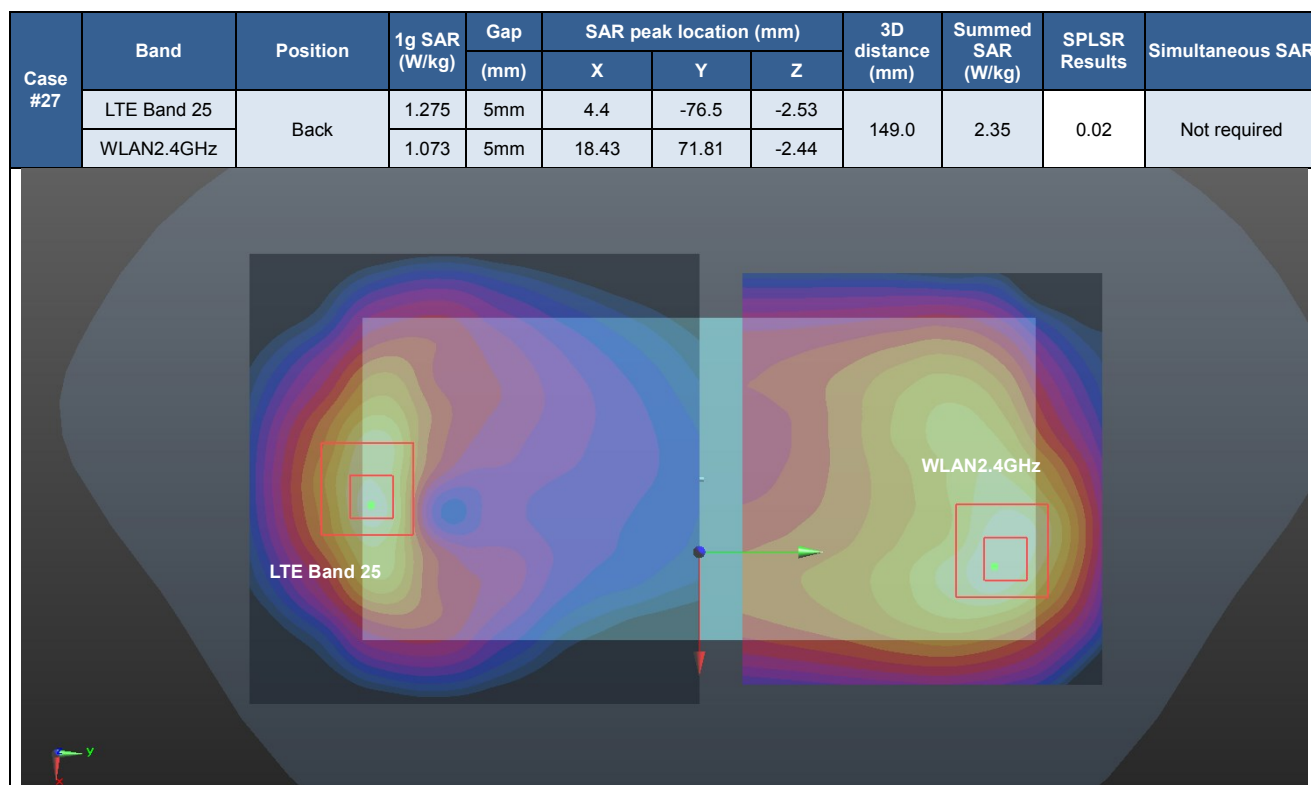


Case #25	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66	Back	1.278	5mm	1.3	-78	-2.41	150.8	2.35	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				

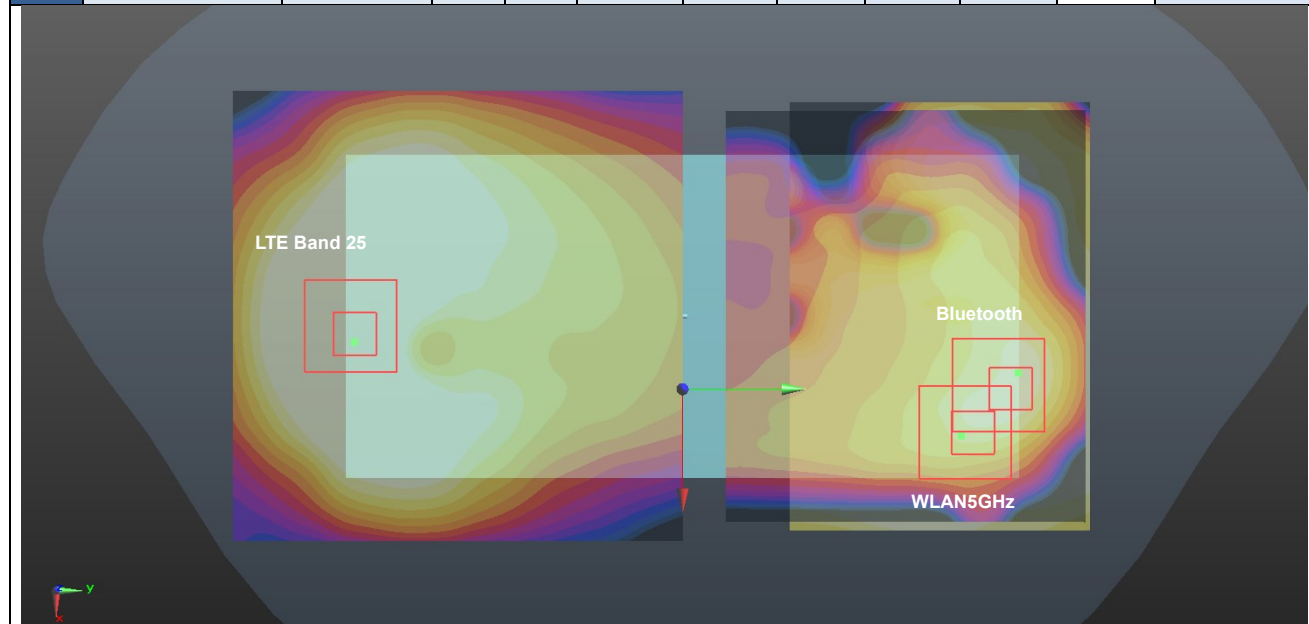


	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #26	LTE Band 66	Back	1.278	5mm	1.3	-78	-2.41	148.6	2.45	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 66	Back	1.278	5mm	1.3	-78	-2.41	155.2	2.45	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				

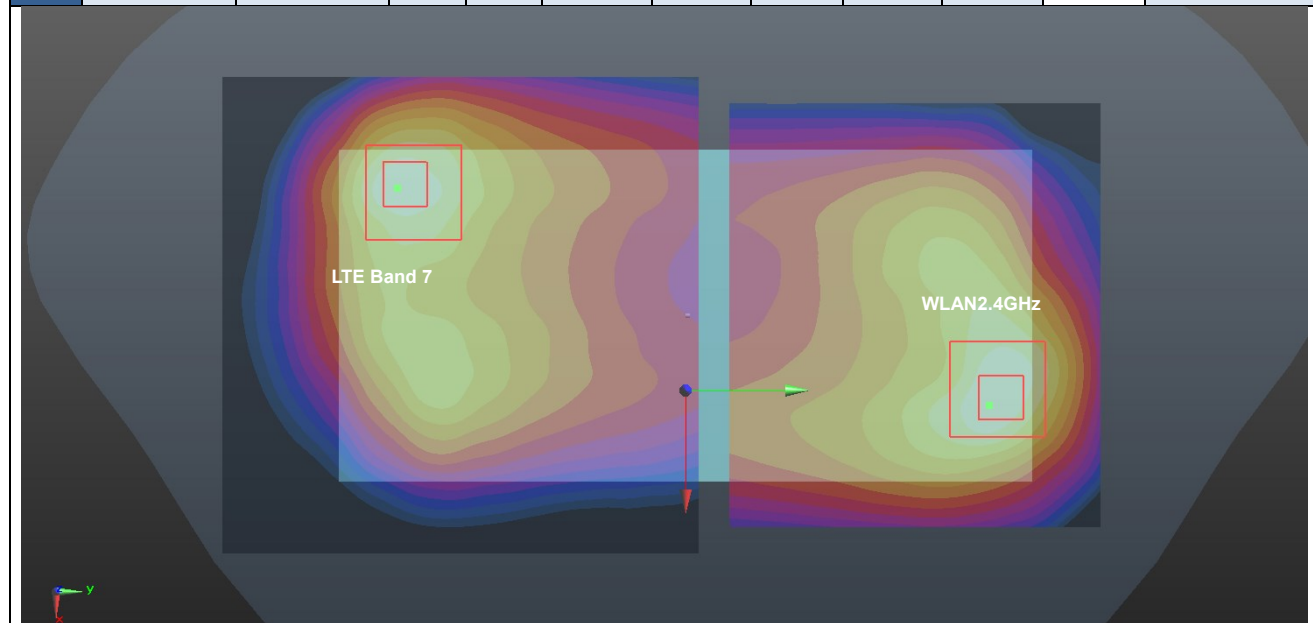




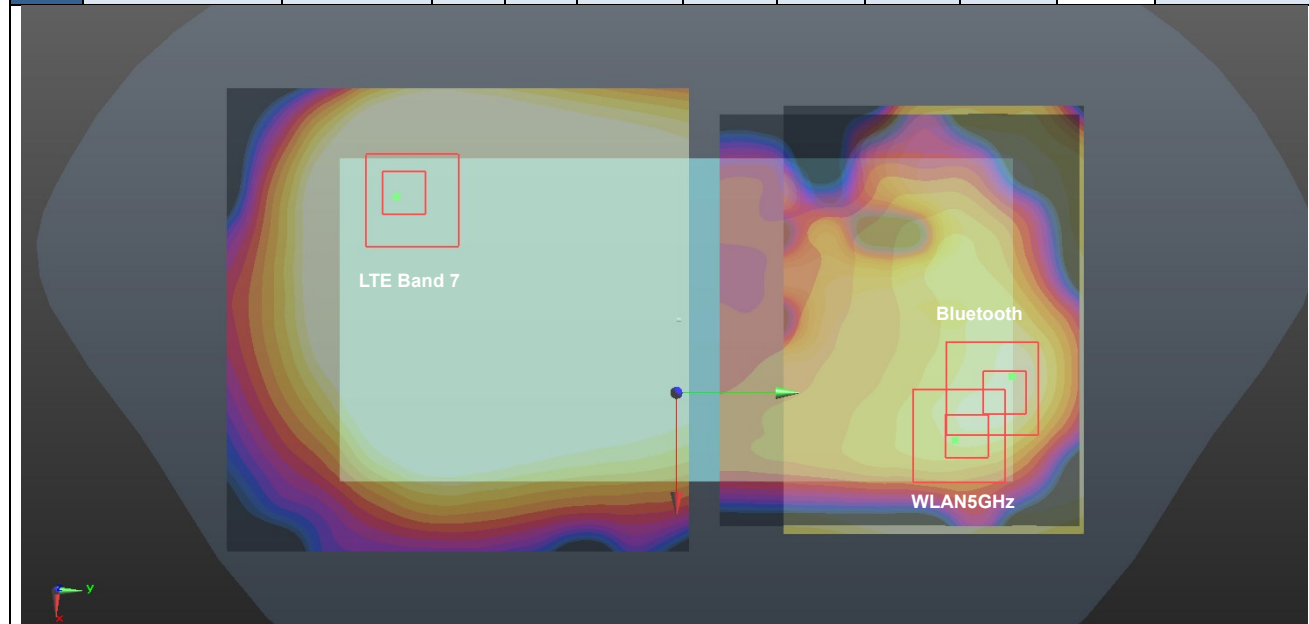
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #28	LTE Band 25	Back	1.275	5mm	4.4	-76.5	-2.53	146.6	2.45	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 25	Back	1.275	5mm	4.4	-76.5	-2.53	153.4	2.45	0.02	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



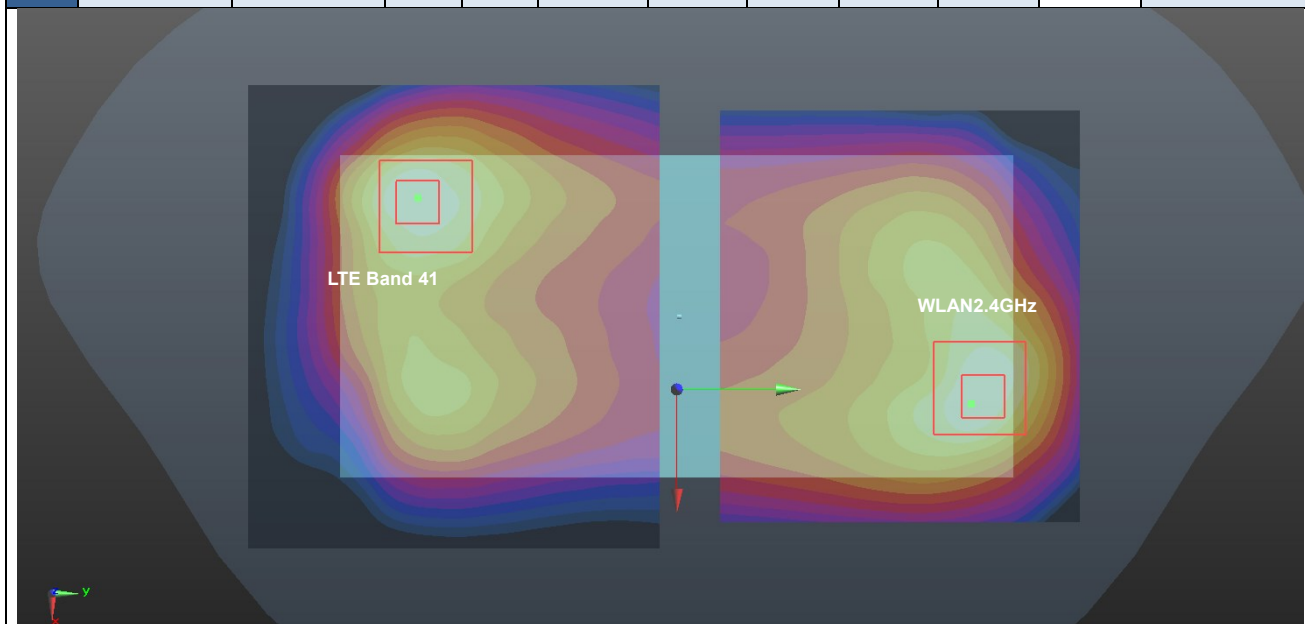
Case #29	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 7	Back	1.319	5mm	X	Y	Z	146.1	2.39	0.03	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



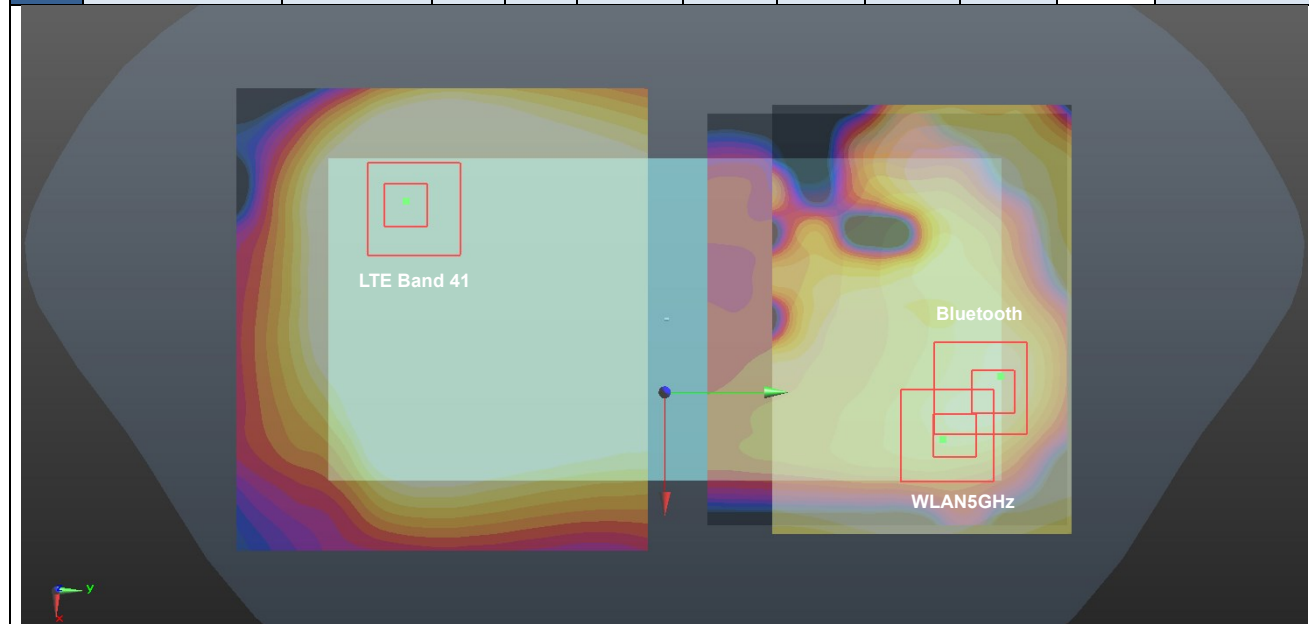
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #30	LTE Band 7	Back	1.319	5mm	-31.8	-65.4	-2.62	146.4	2.49	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 7	Back	1.319	5mm	-31.8	-65.4	-2.62	150.0	2.49	0.03	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



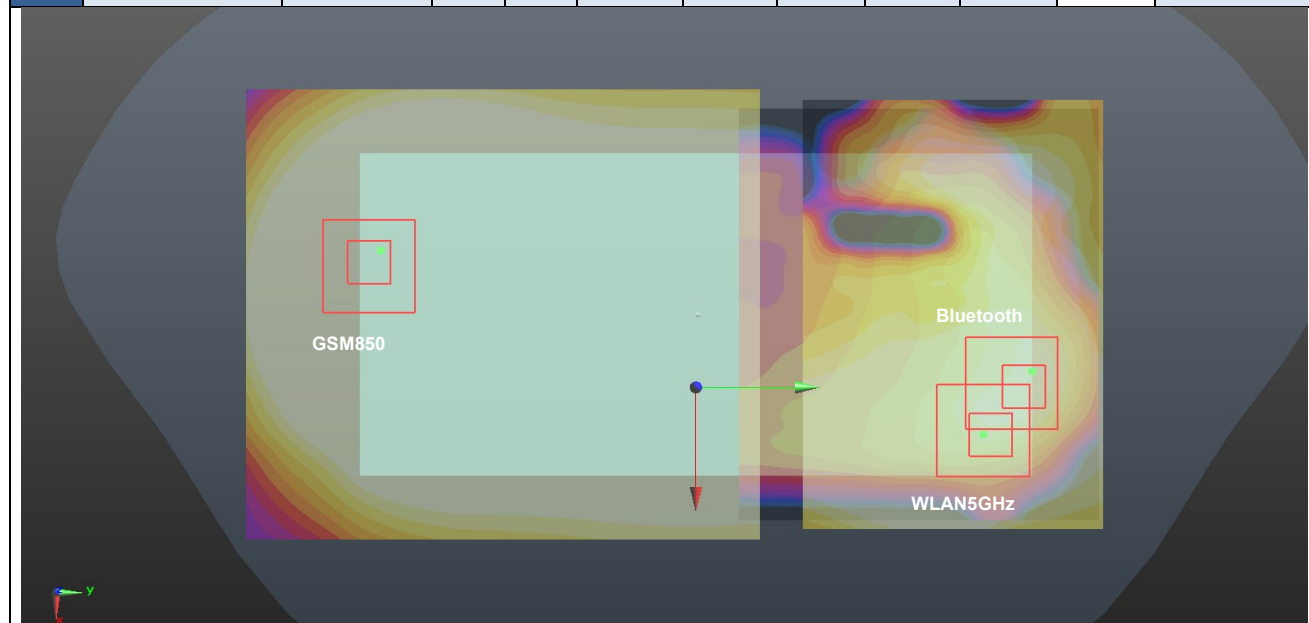
Case #31	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Back	1.378	5mm	-28.6	-63.4	-3.62	143.2	2.45	0.03	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



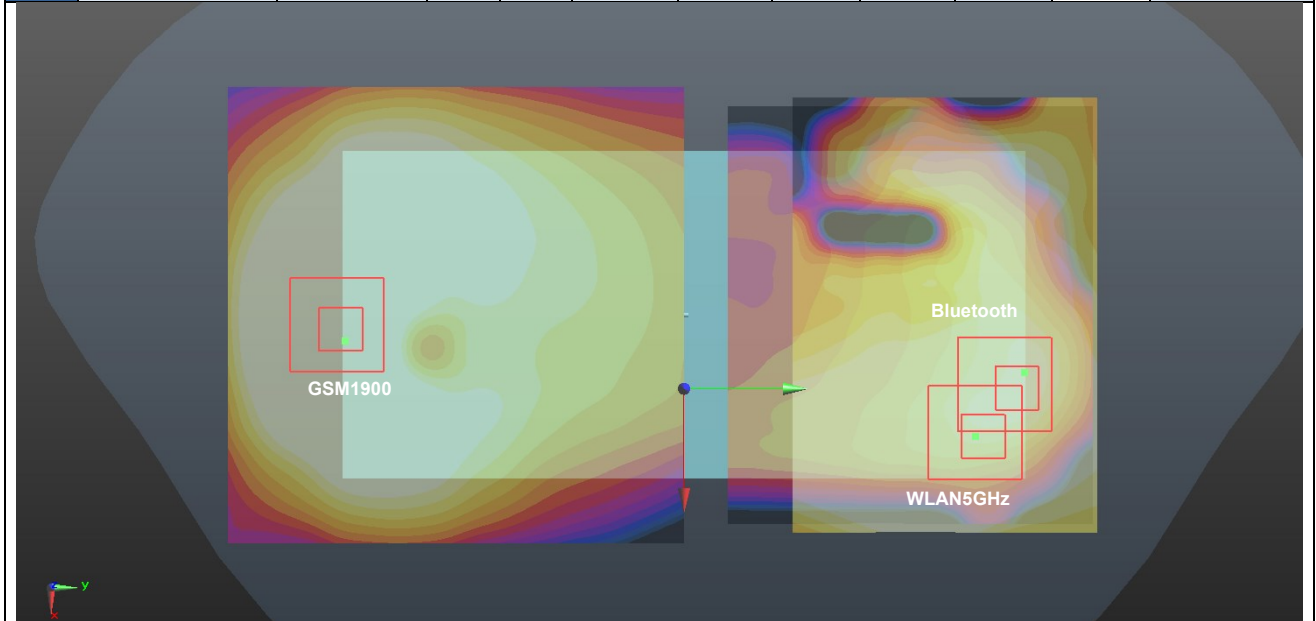
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #32	LTE Band 41	Back	1.378	5mm	-28.6	-63.4	-3.62	143.3	2.55	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	LTE Band 41	Back	1.378	5mm	-28.6	-63.4	-3.62	147.1	2.55	0.03	Not required
	WLAN5GHz		1.106	5mm	28.04	68.2	-2.28				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



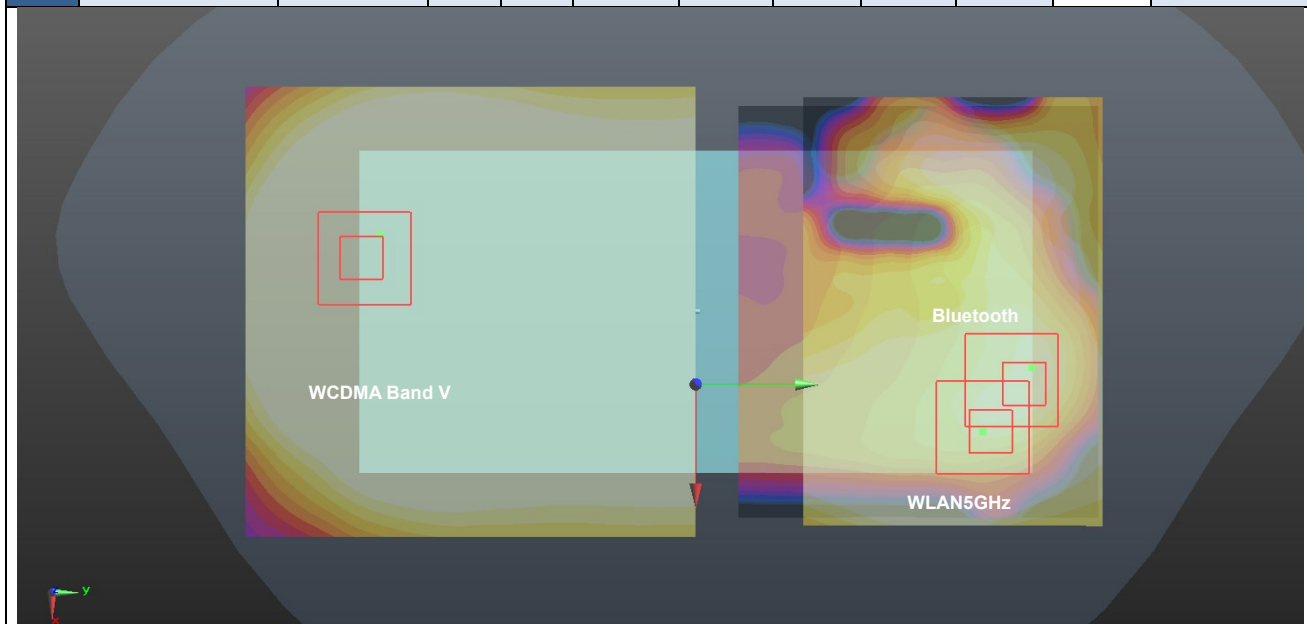
Case #33	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM850	Back	1.247	5mm	-15	-75.1	-3.79	151.5	2.44	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	GSM850	Back	1.247	5mm	-15	-75.1	-3.79	154.9	2.44	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



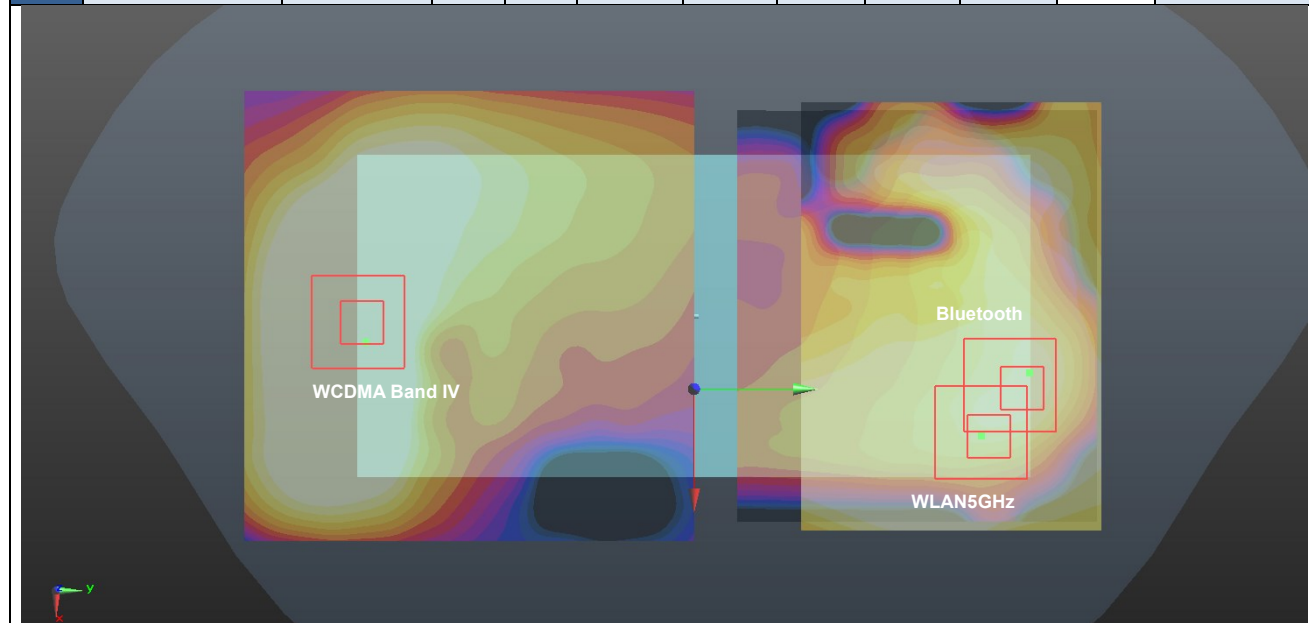
Case #34	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900	Back	1.419	5mm	4.4	-79.6	-2.4	151.6	2.61	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	GSM1900	Back	1.419	5mm	4.4	-79.6	-2.4	156.5	2.61	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



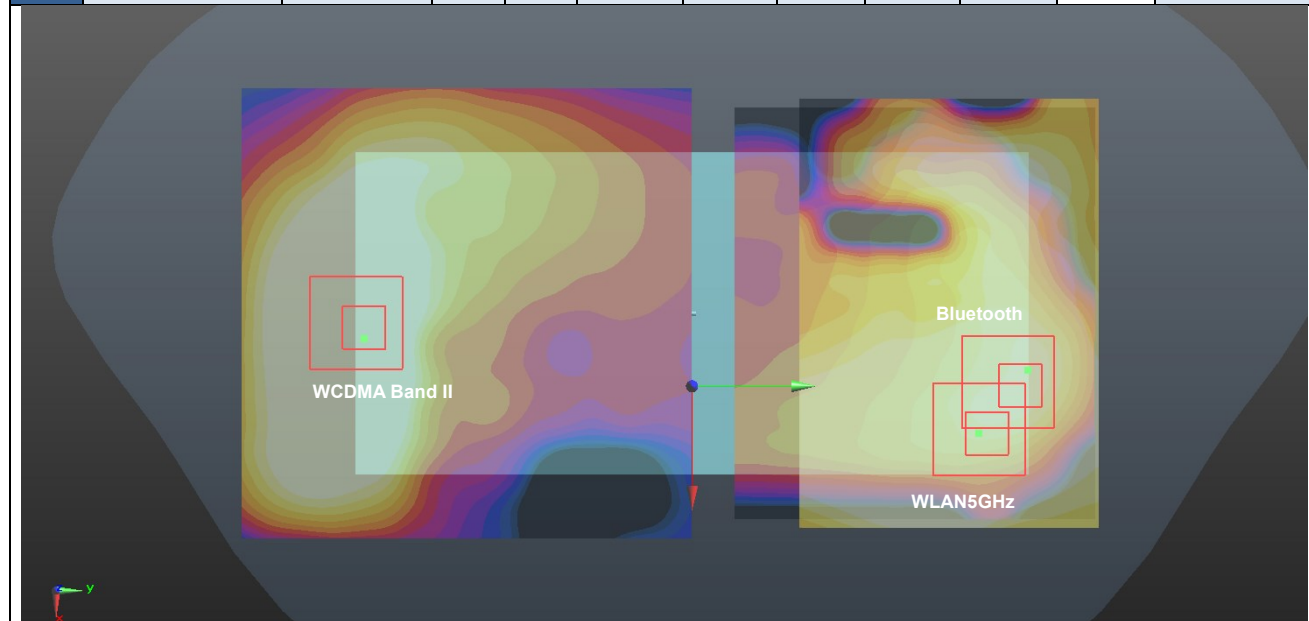
Case #35	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band V	Back	1.374	5mm	-14.8	-76.7	-3.67	153.0	2.57	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	WCDMA Band V	Back	1.374	5mm	-14.8	-76.7	-3.67	156.4	2.57	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



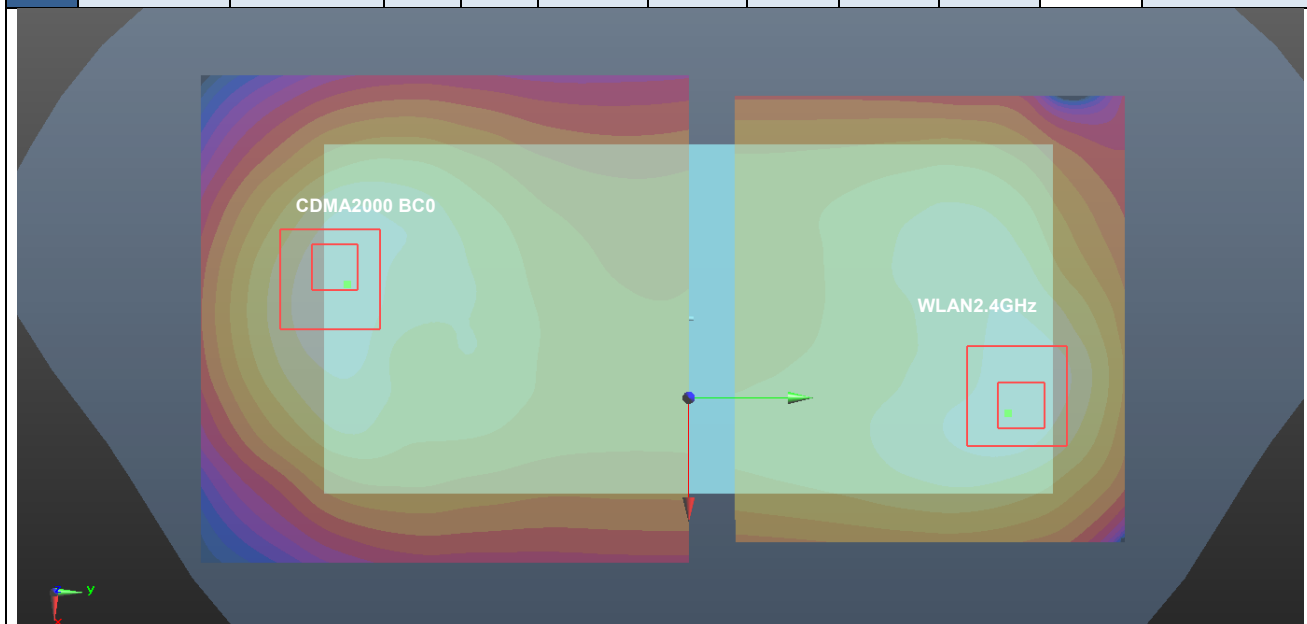
	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #36	WCDMA Band IV	Back	1.378	5mm	2.8	-76.5	-2.56	148.9	2.57	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	WCDMA Band IV	Back	1.378	5mm	2.8	-76.5	-2.56	153.6	2.57	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



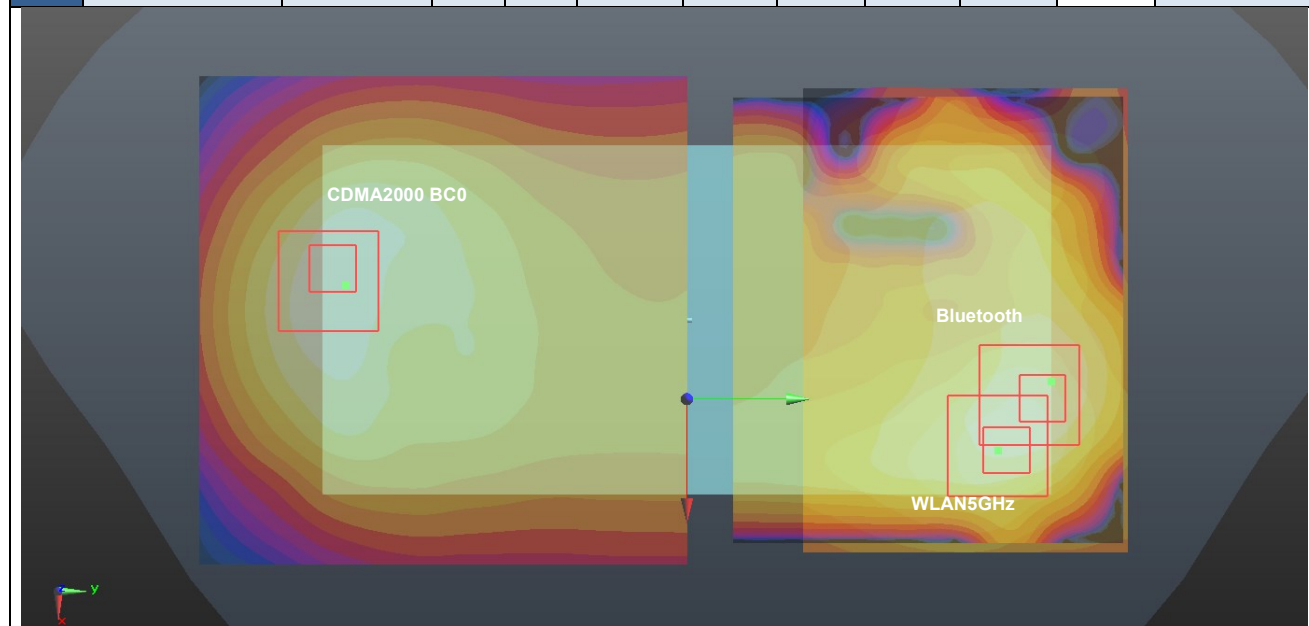
	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #37	WCDMA Band II	Back	1.35	5mm	2.8	-76.5	-2.57	148.9	2.54	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	WCDMA Band II	Back	1.35	5mm	2.8	-76.5	-2.57	153.6	2.54	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



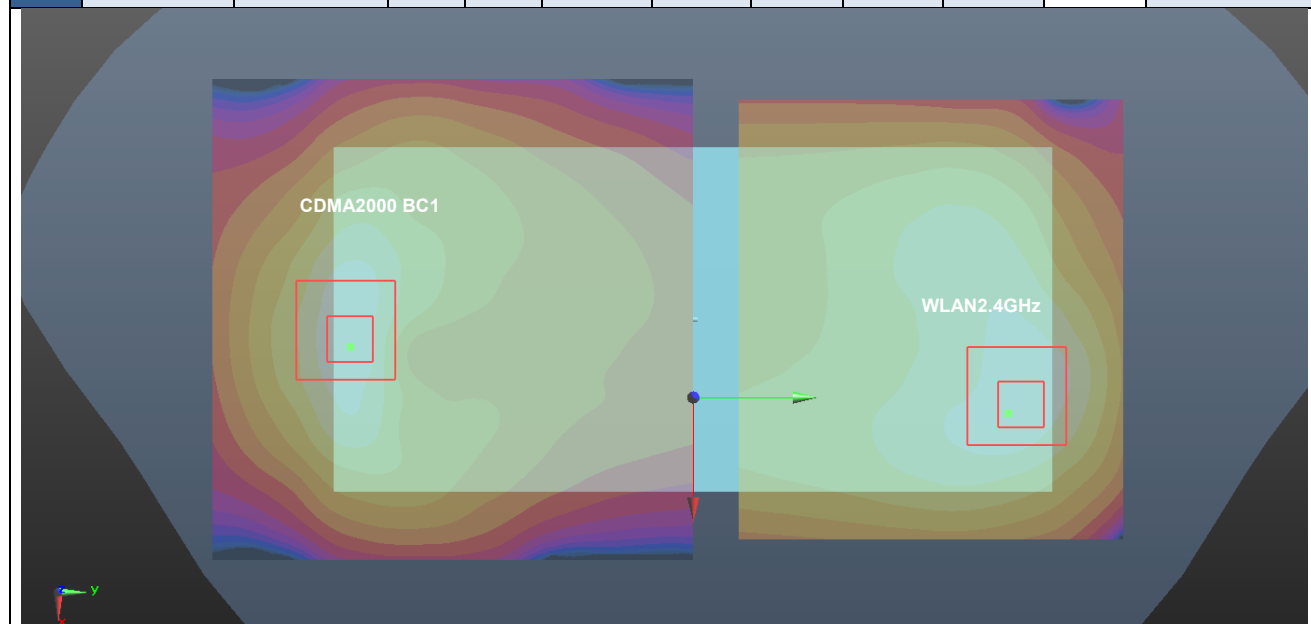
Case #38	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC0	Back	1.289	5mm	-12.3	-75.1	-3.57	150.1	2.36	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



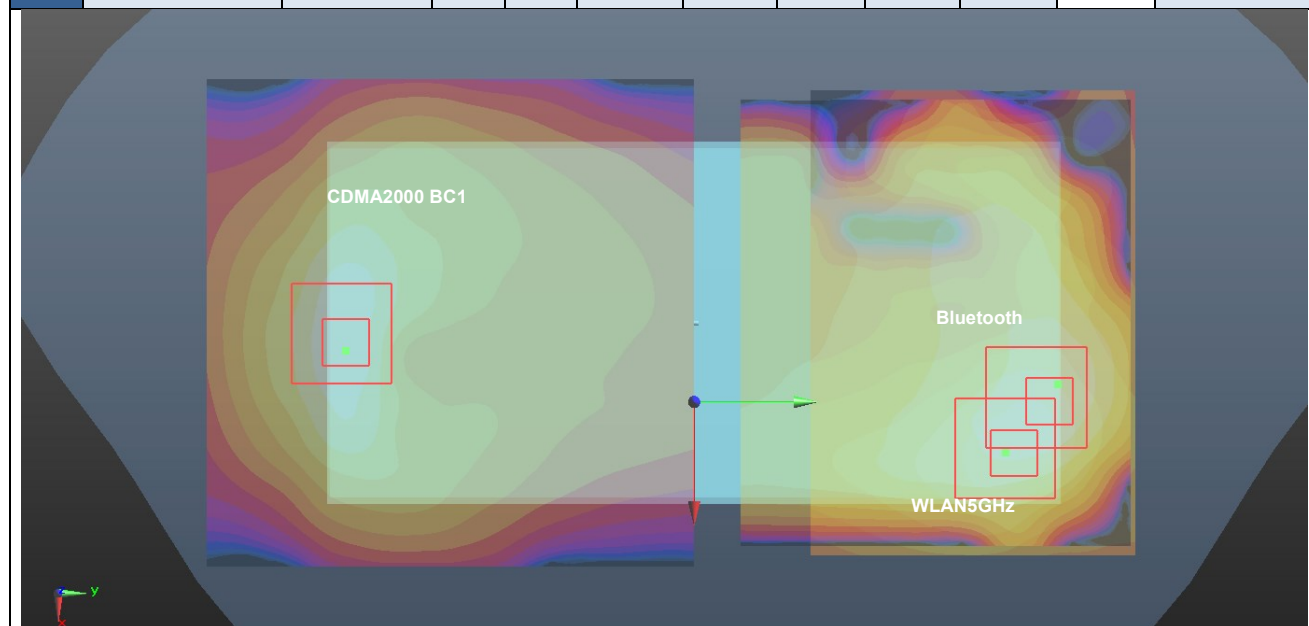
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #39	CDMA2000 BC0	Back	1.289	5mm	-12.3	-75.1	-3.57	150.8	2.48	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	CDMA2000 BC0	Back	1.289	5mm	-12.3	-75.1	-3.57	154.4	2.48	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



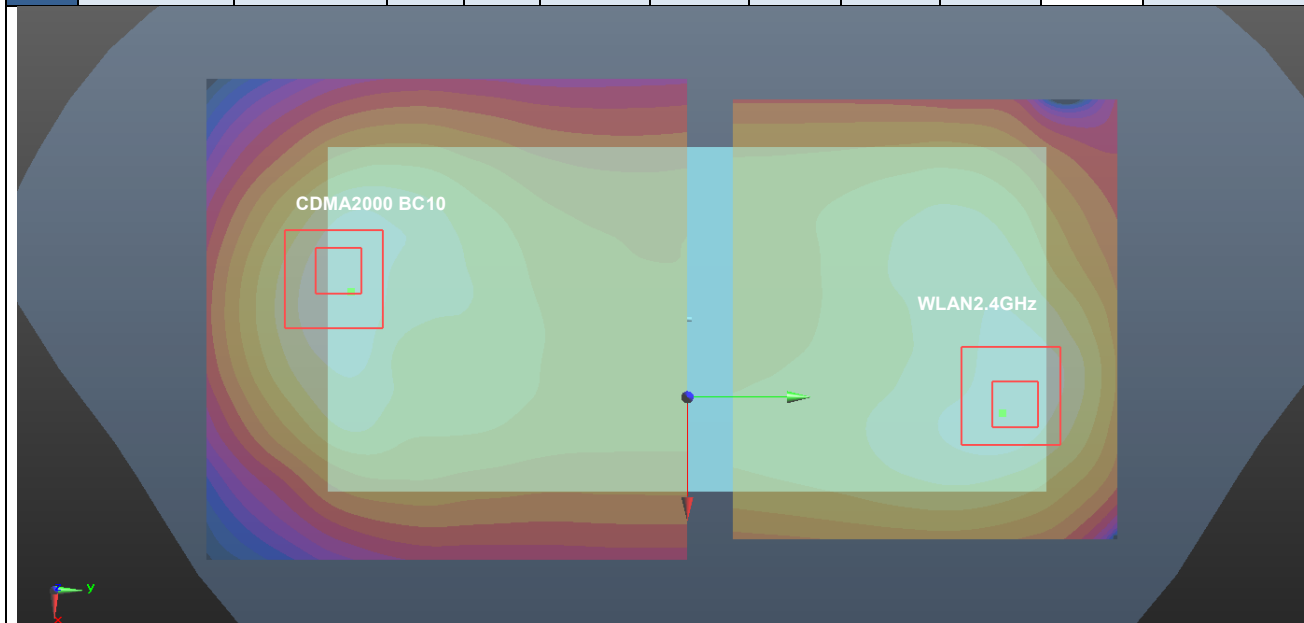
Case #40	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC1	Back	1.186	5mm	4.4	-75	-3.28	147.5	2.26	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



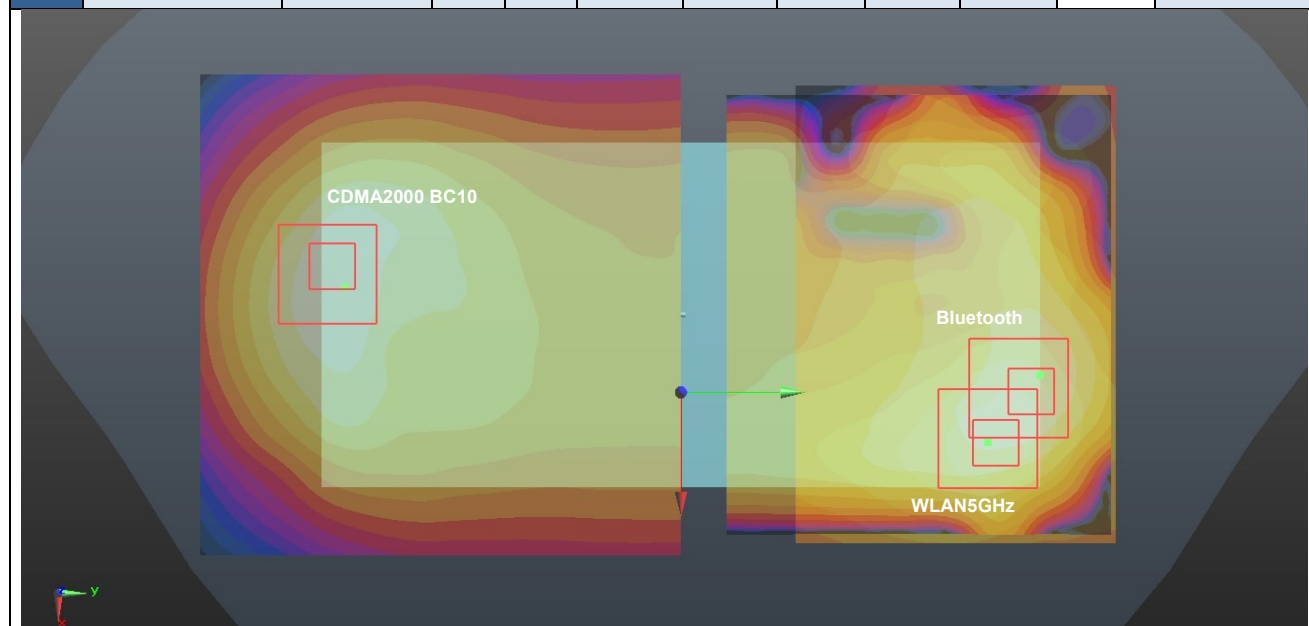
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #41	CDMA2000 BC1	Back	1.186	5mm	4.4	-75	-3.28	147.1	2.38	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	CDMA2000 BC1	Back	1.186	5mm	4.4	-75	-3.28	151.9	2.38	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



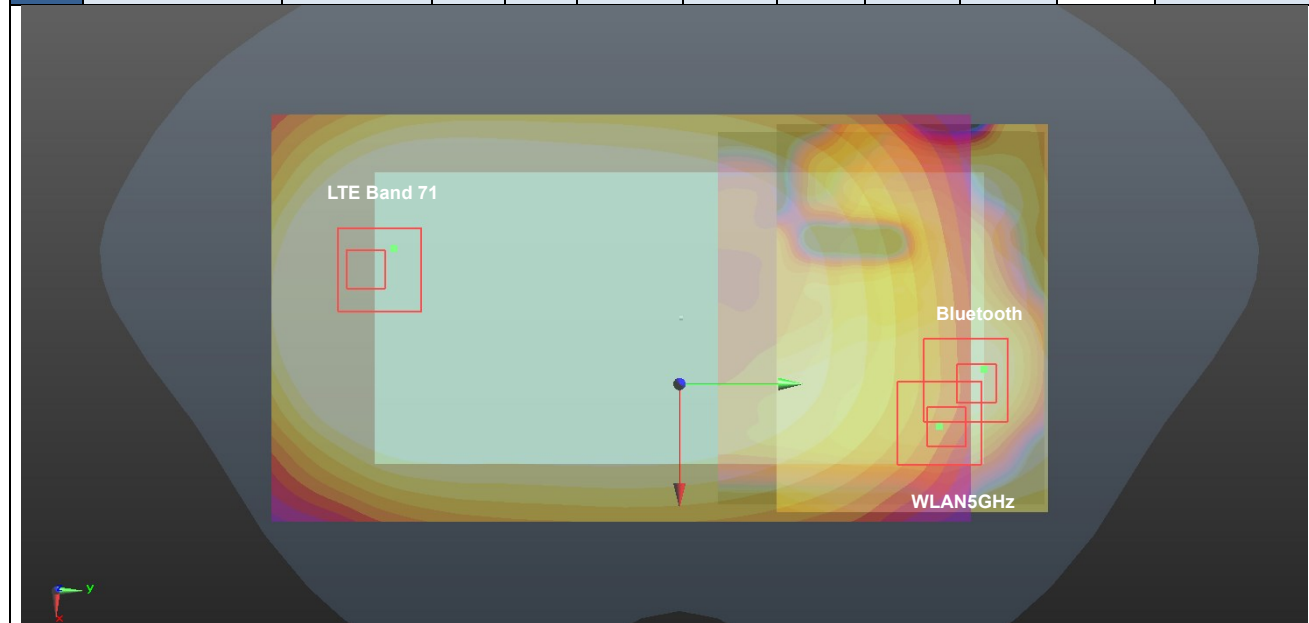
Case #42	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC10	Back	1.104	5mm	-12.4	-75.1	-3.58	150.1	2.18	0.02	Not required
	WLAN2.4GHz		1.073	5mm	18.43	71.81	-2.44				



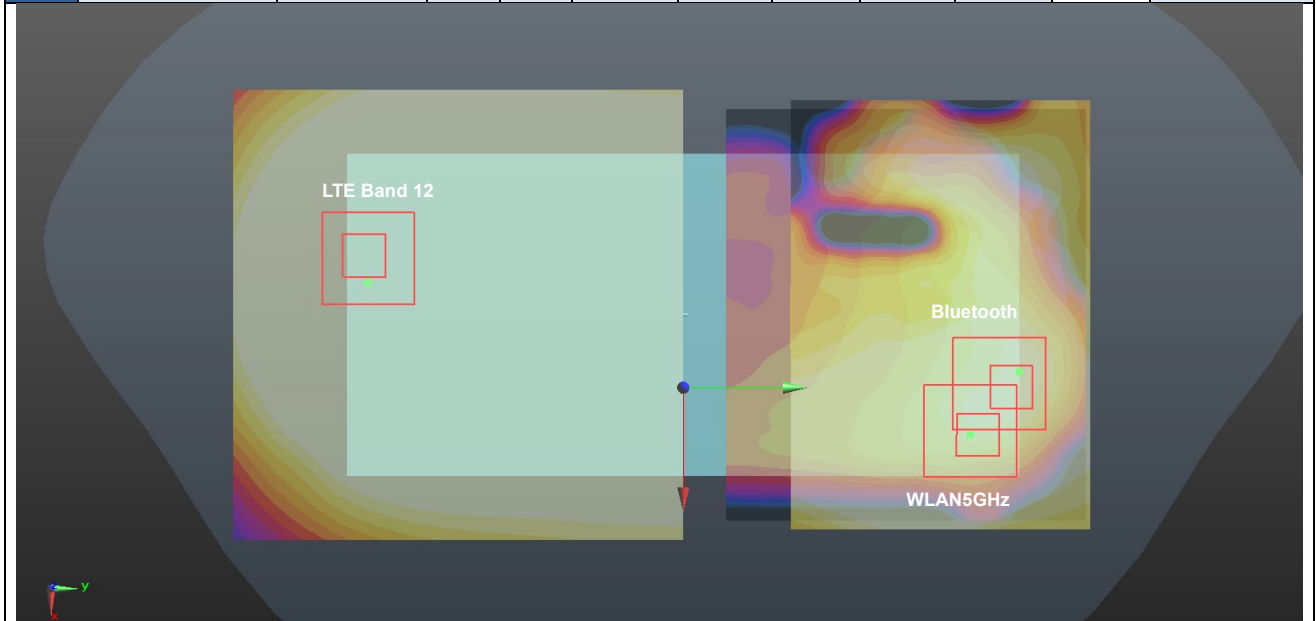
	Band	Position	1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #43	CDMA2000 BC10	Back	1.104	5mm	-12.4	-75.1	-3.58	150.8	2.30	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	CDMA2000 BC10	Back	1.104	5mm	-12.4	-75.1	-3.58	154.4	2.30	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



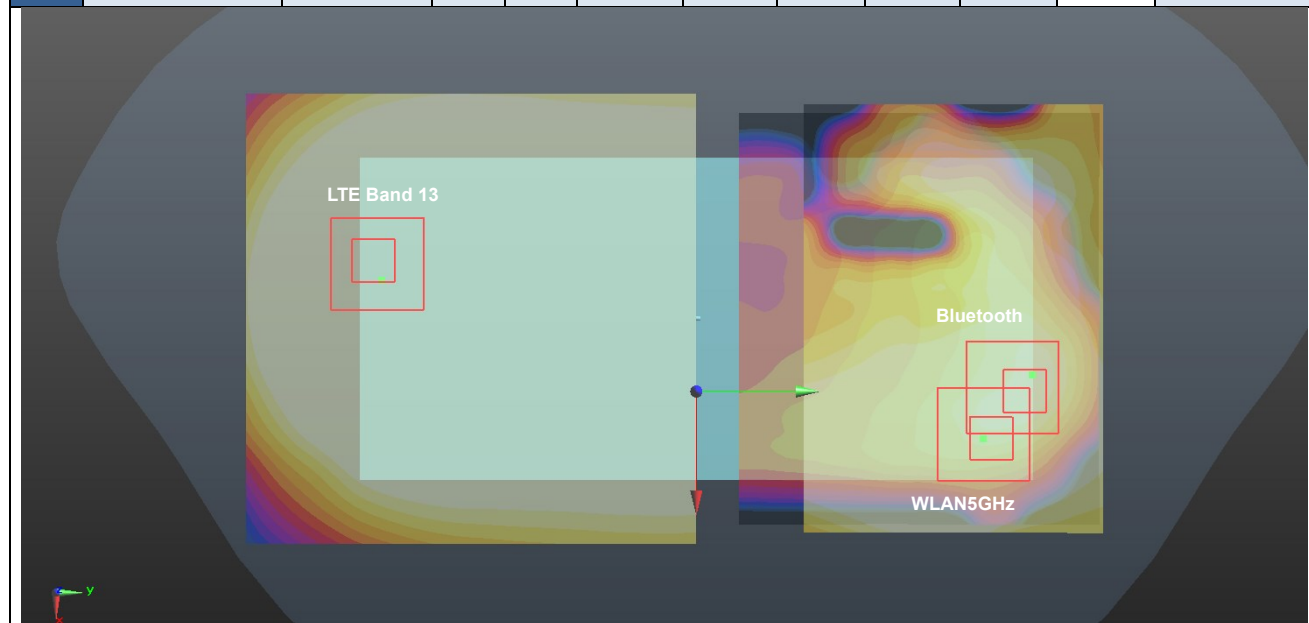
	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #44	LTE Band 71	Back	0.835	5mm	-11.6	-81.5	-1.88	156.8	2.03	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 71	Back	0.835	5mm	-11.6	-81.5	-1.88	160.5	2.03	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



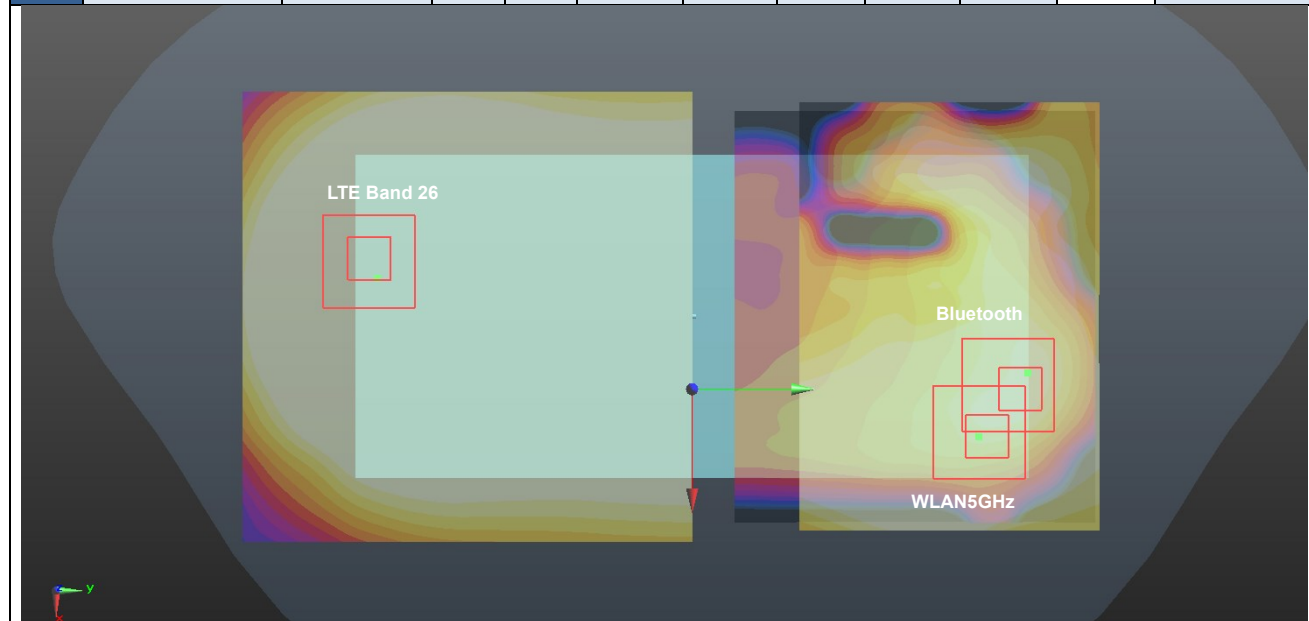
Case #45	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 12	Back	0.858	5mm	-15.5	-73.5	-3.71	150.1	2.05	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 12	Back	0.858	5mm	-15.5	-73.5	-3.71	153.4	2.05	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



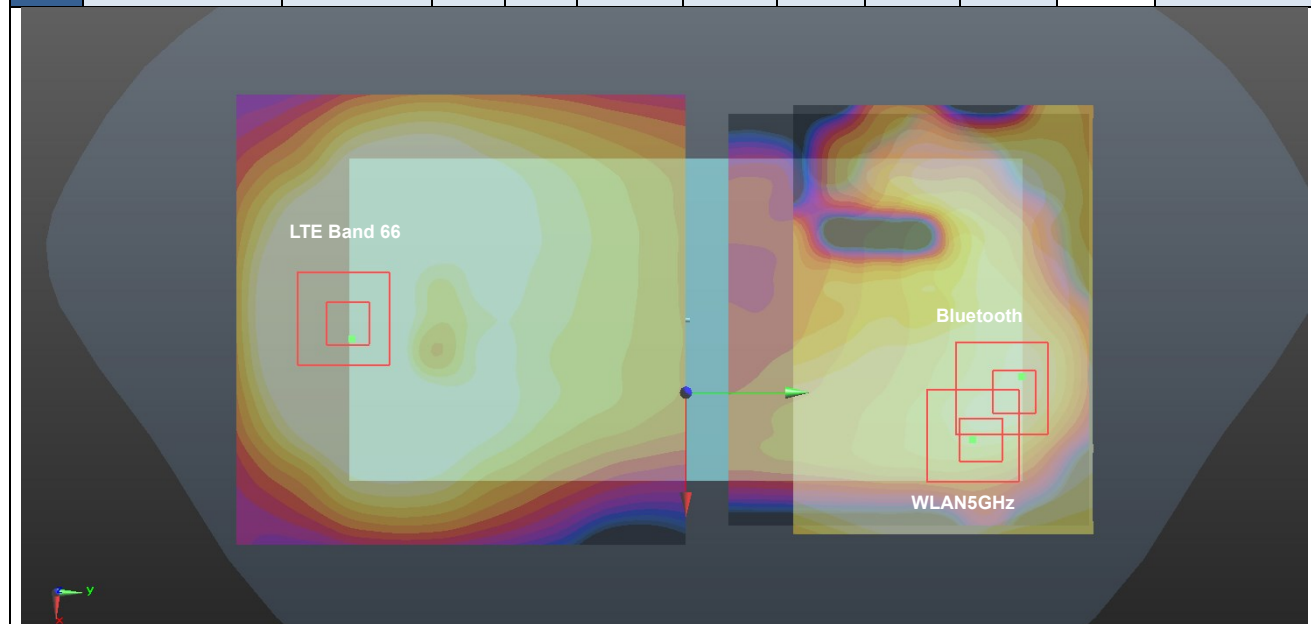
Case #46	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 13	Back	1.197	5mm	-13.8	-75.1	-3.8	151.2	2.39	0.02	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 13	Back	1.197	5mm	-13.8	-75.1	-3.8	154.7	2.39	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



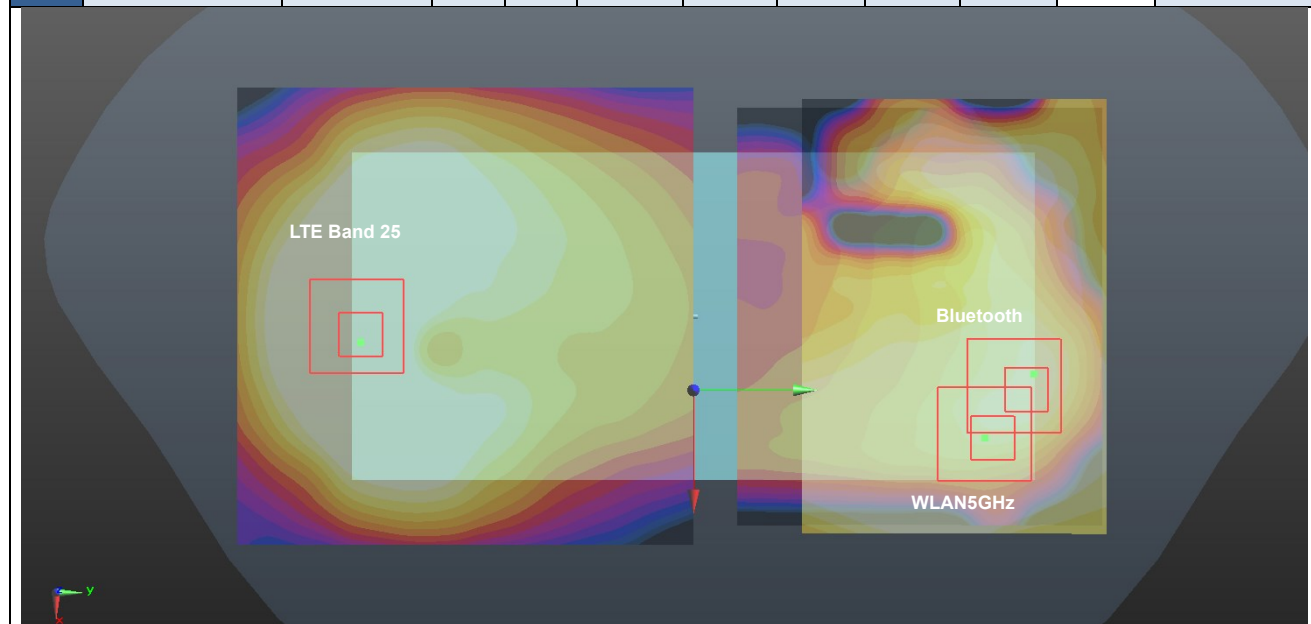
	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #47	LTE Band 26	Back	1.257	5mm	-13.8	-75.1	-3.82	151.2	2.45	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 26	Back	1.257	5mm	-13.8	-75.1	-3.82	154.7	2.45	0.02	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



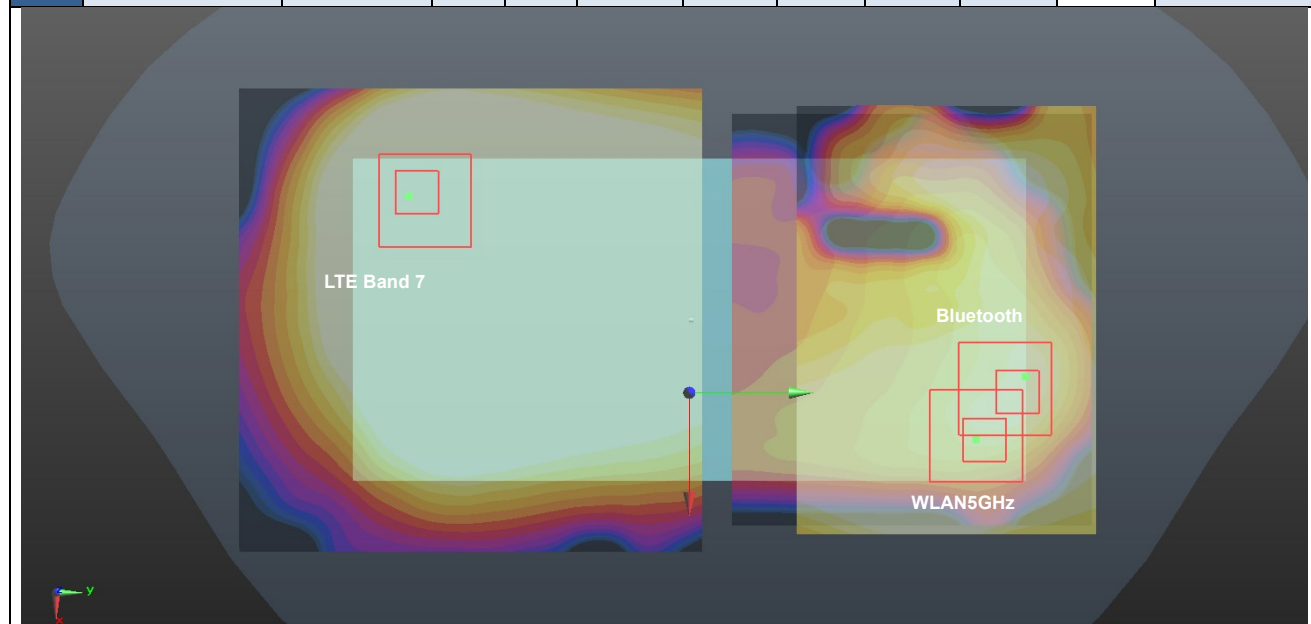
Case #48	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #48	LTE Band 66	Back	1.278	5mm	1.3	-78	-2.41	150.6	2.47	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 66	Back	1.278	5mm	1.3	-78	-2.41	155.2	2.47	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



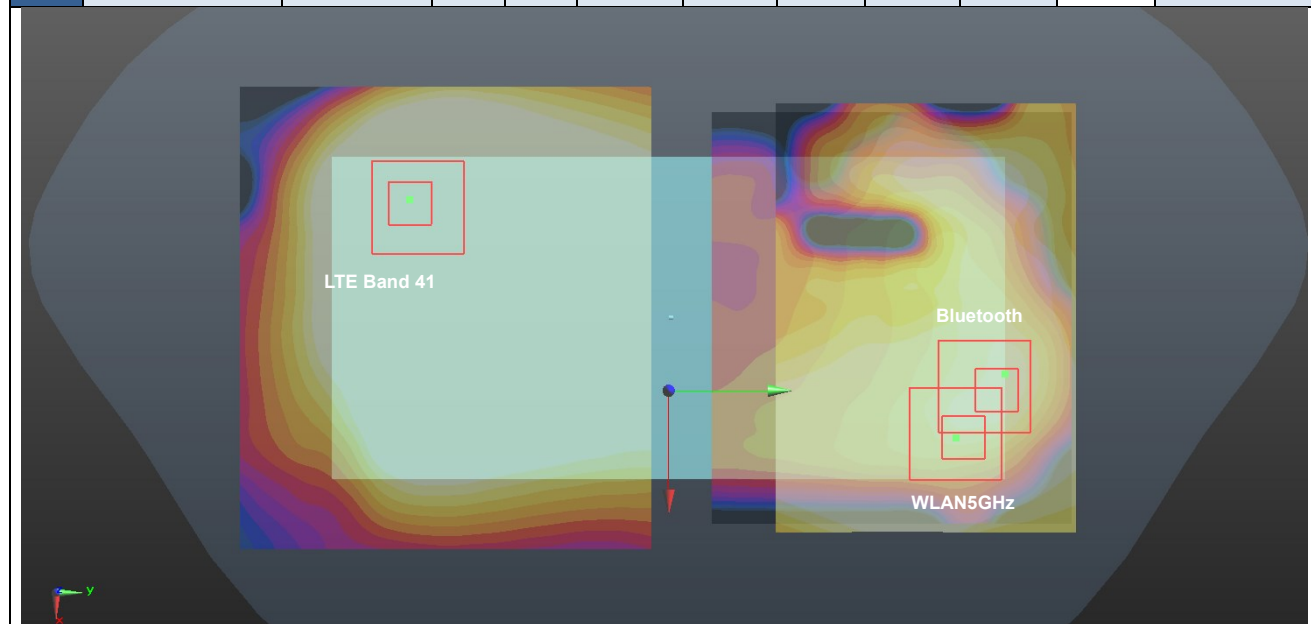
Case #49	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #49	LTE Band 25	Back	1.275	5mm	4.4	-76.5	-2.53	148.6	2.47	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 25	Back	1.275	5mm	4.4	-76.5	-2.53	153.4	2.47	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



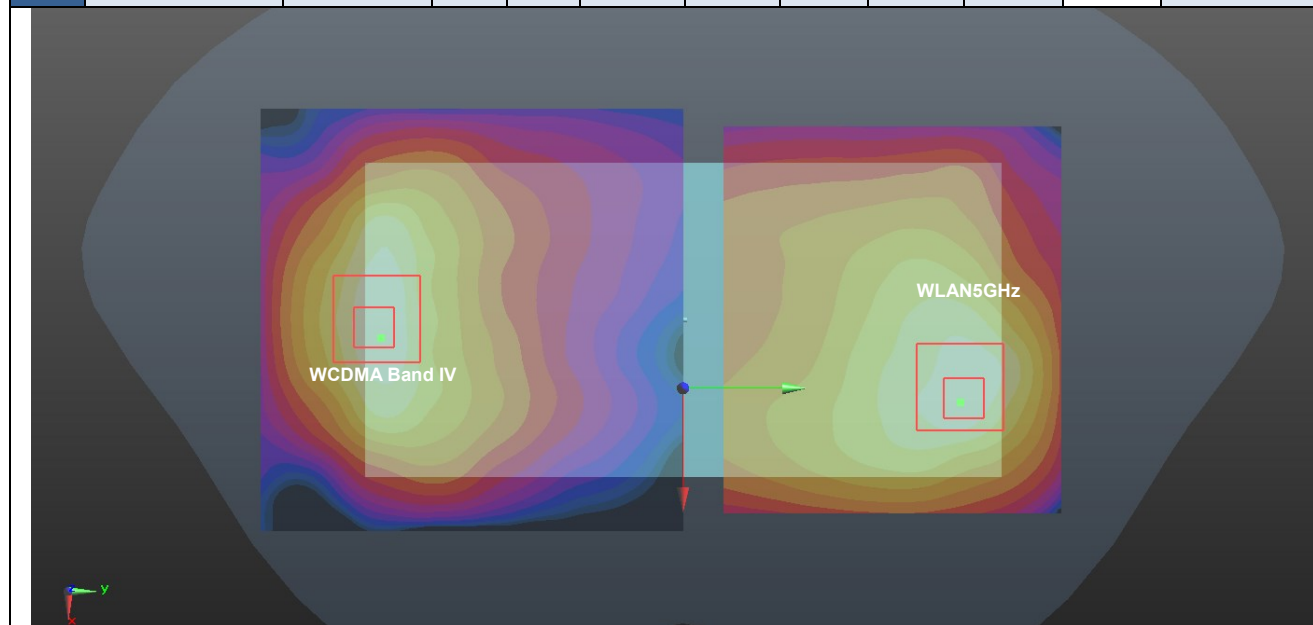
Case #50	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #50	LTE Band 7	Back	1.319	5mm	-31.8	-65.4	-2.62	148.2	2.51	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 7	Back	1.319	5mm	-31.8	-65.4	-2.62	150.0	2.51	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



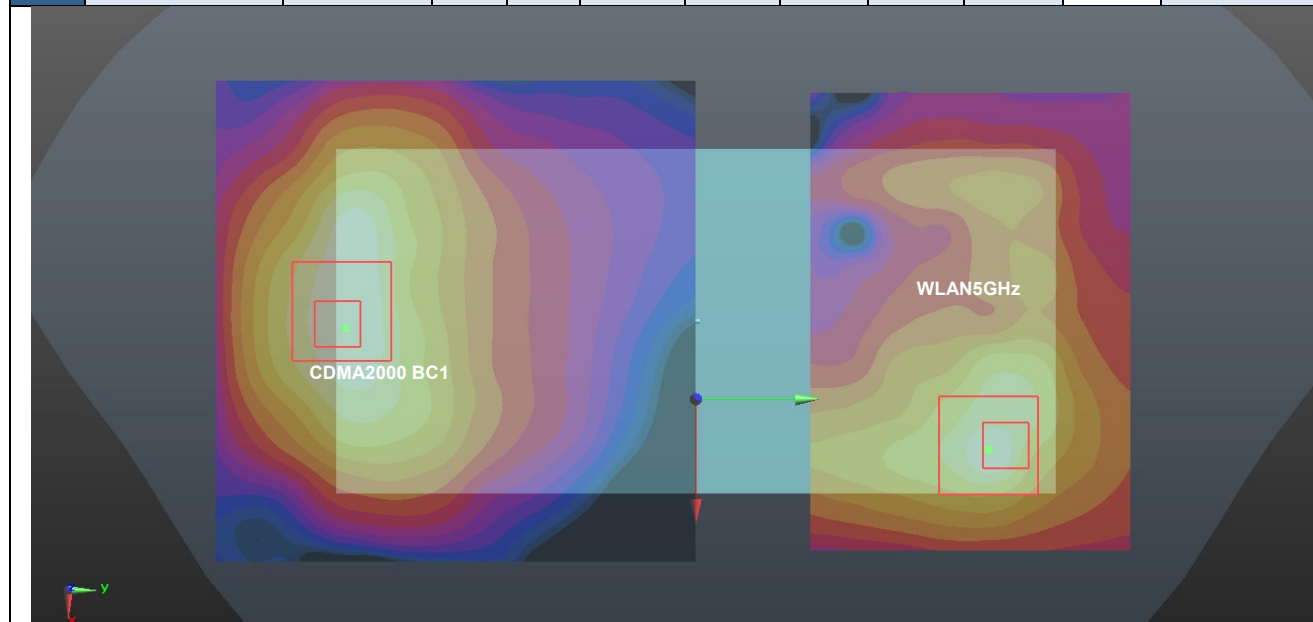
Case #51	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #51	LTE Band 41	Back	1.378	5mm	-28.6	-63.4	-3.62	145.1	2.57	0.03	Not required
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	LTE Band 41	Back	1.378	5mm	-28.6	-63.4	-3.62	147.1	2.57	0.03	Not required
	WLAN5GHz		1.127	5mm	28.01	70.2	-2.29				
	Bluetooth		0.067	5mm	17.24	76.4	-2.39				



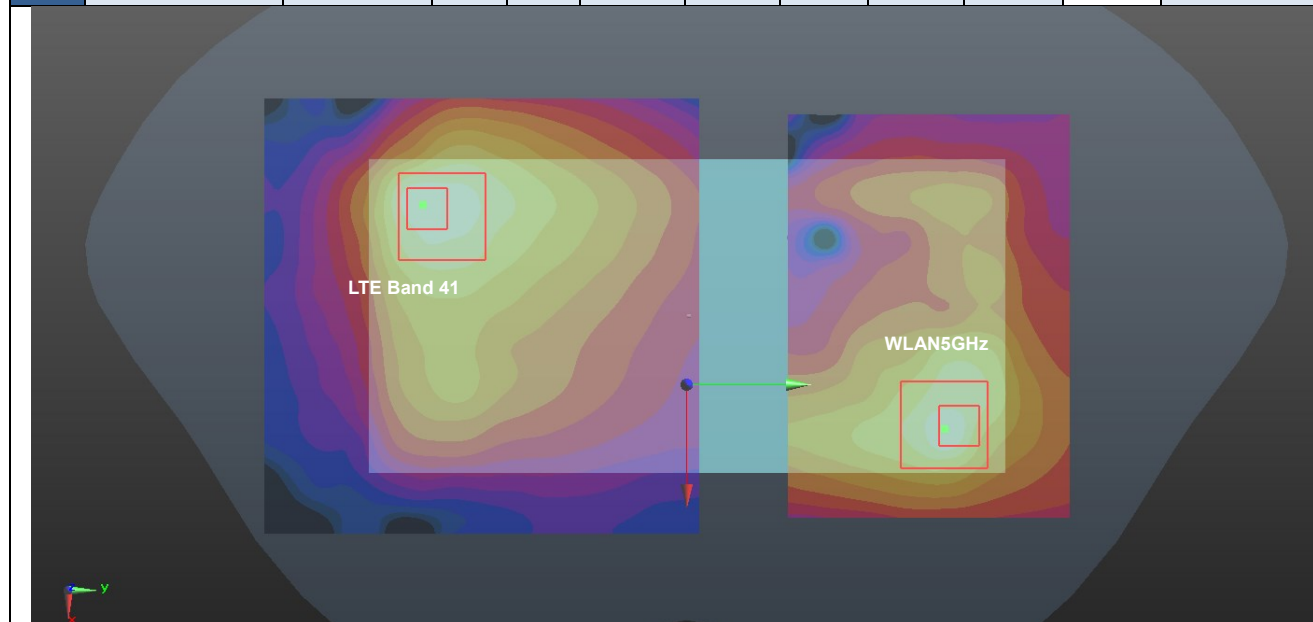
Case #52	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	WCDMA Band IV		3.478	0mm	X	Y	Z				
	WLAN5GHz		0.706	0mm	28.02	68	-1.04				



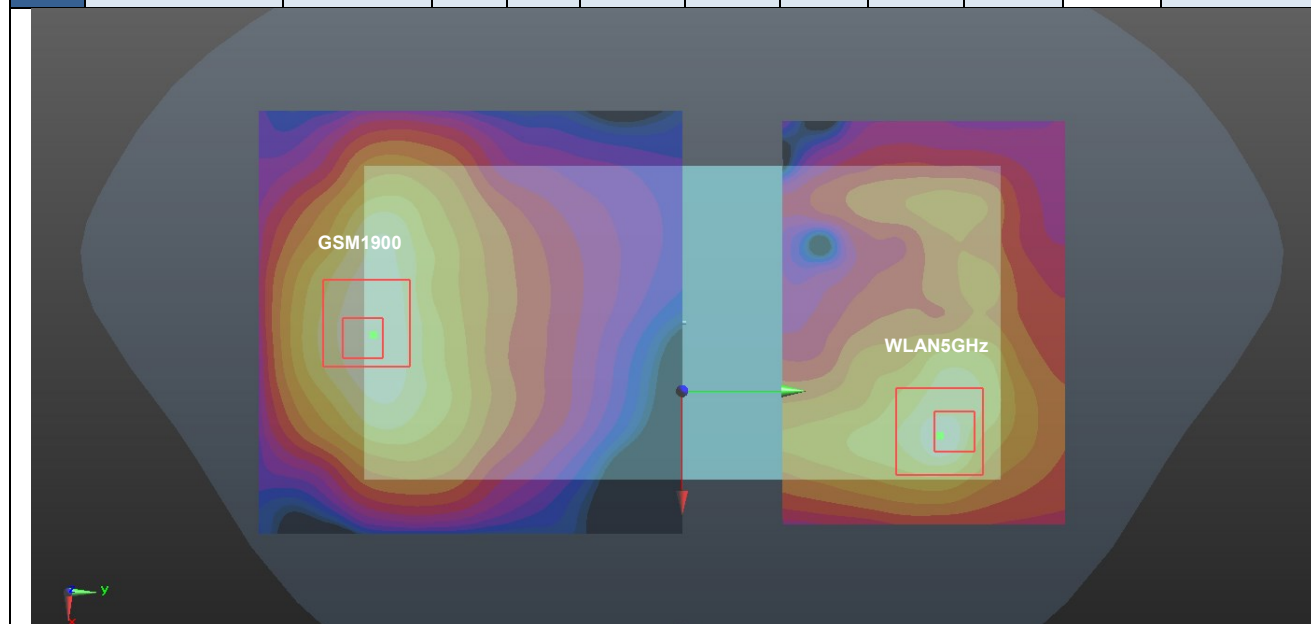
Case #53	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC1	Back	3.559	0mm	4.4	-78	-2.48	147.9	4.27	0.06	Not required
	WLAN5GHz		0.706	0mm	28.02	68	-1.04				



Case #54	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Back	3.38	0mm	-28.6	-66.4	-3.18	145.9	4.09	0.06	Not required
	WLAN5GHz		0.706	0mm	28.02	68	-1.04				



Case #55	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900	Back	3.48	0mm	4.6	-78.1	-1.99	148.0	4.19	0.06	Not required
	WLAN5GHz		0.706	0mm	28.02	68	-1.04				



17. Supplemental Tuner Tests Results

General Note:

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 144 tuner states.
3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

17.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix C.

Test Engineer: Nick Hu

18. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

19. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [11] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [12] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [13] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3-1012

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

Medium: HSL_750_190302 Medium parameters used: $f = 750$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 43.239$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7306;ConvF(10.19, 10.19, 10.19) @ 750 MHz;Calibrated: 2018/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2018/5/24
- Phantom: SAM_Right; Type: QD000P40CD; Serial: 1884
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.84 W/kg

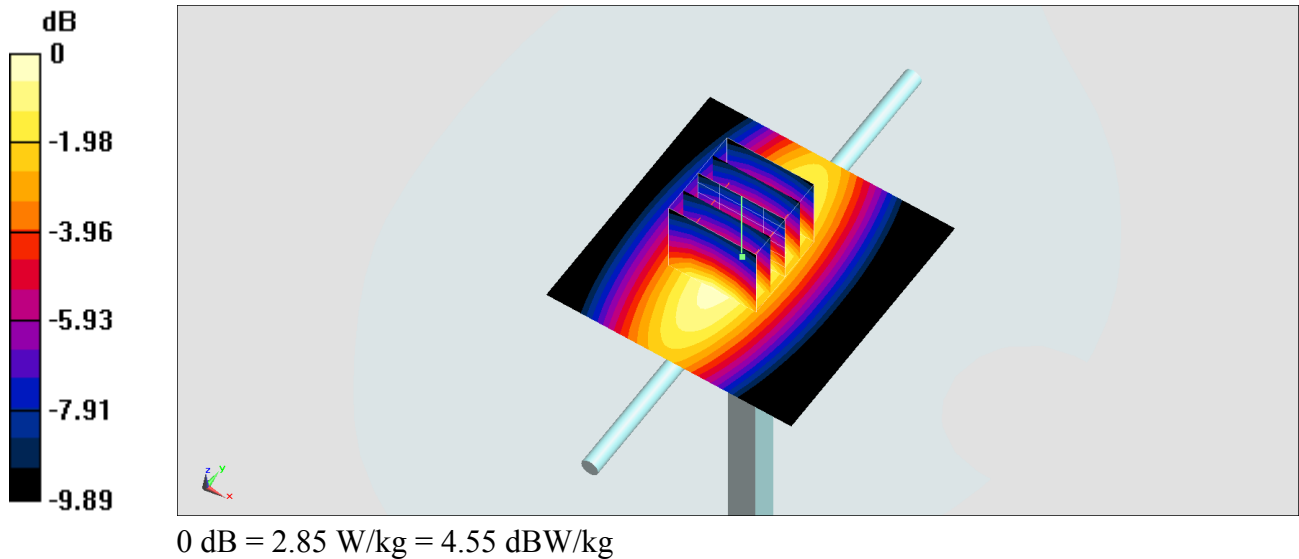
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.08 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.46 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



System Check_Head_750MHz

DUT: D750V3-1012

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

Medium: HSL_750_190302 Medium parameters used: $f = 750$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 43.261$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.7 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7306;ConvF(10.19, 10.19, 10.19);Calibrated: 2018/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2018/5/24
- Phantom: SAM_Right; Type: QD000P40CD; Serial: 1884
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.95 W/kg

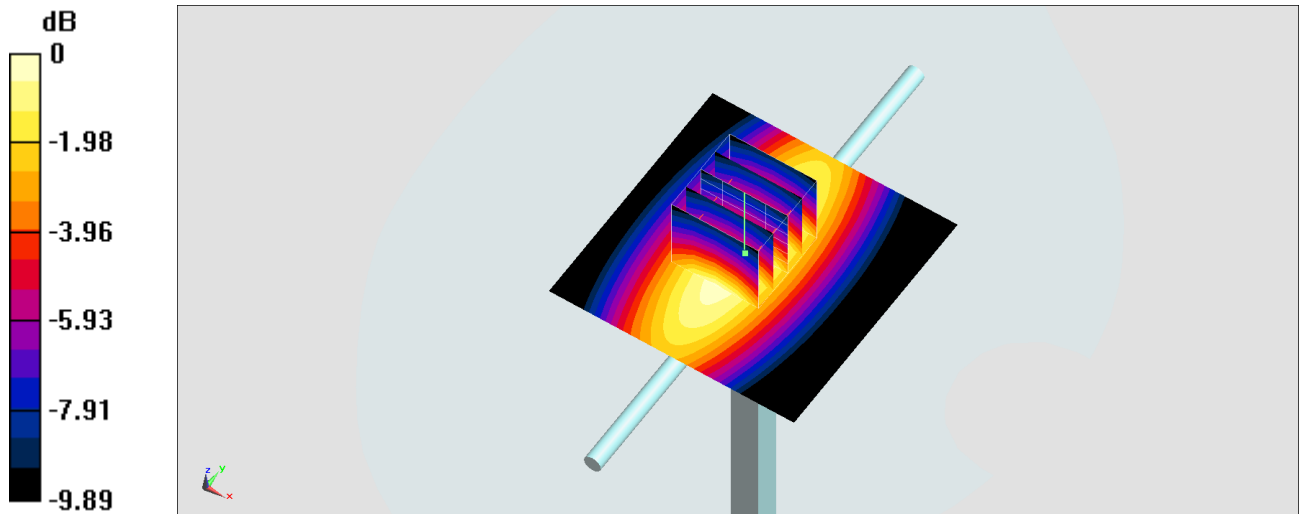
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.08 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.51 W/kg

Maximum value of SAR (measured) = 2.96 W/kg



0 dB = 2.96 W/kg = 4.71 dBW/kg

System Check_Head_835MHz

DUT: D835V2-499

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

Medium: HSL_835_190303 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.867 \text{ S/m}$; $\epsilon_r = 41.378$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.6°C ; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7306; ConvF(9.96, 9.96, 9.96); Calibrated: 2018/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2018/5/24
- Phantom: SAM_Right; Type: QD000P40CD; Serial: 1884
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.16 W/kg

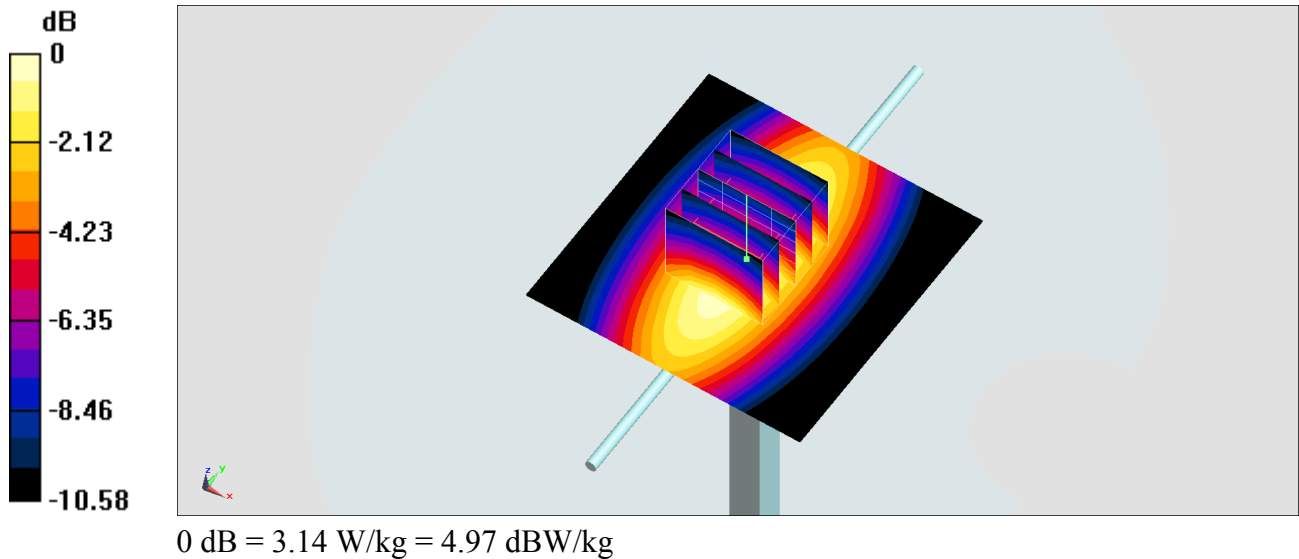
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 62.88 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.54 W/kg

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

Maximum value of SAR (measured) = 3.14 W/kg



System Check_Head_835MHz**DUT: D835V2 - SN:4d151**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_850 Medium parameters used: $f = 835$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 42.273$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn915; Calibrated: 2018.6.20
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.34 W/kg

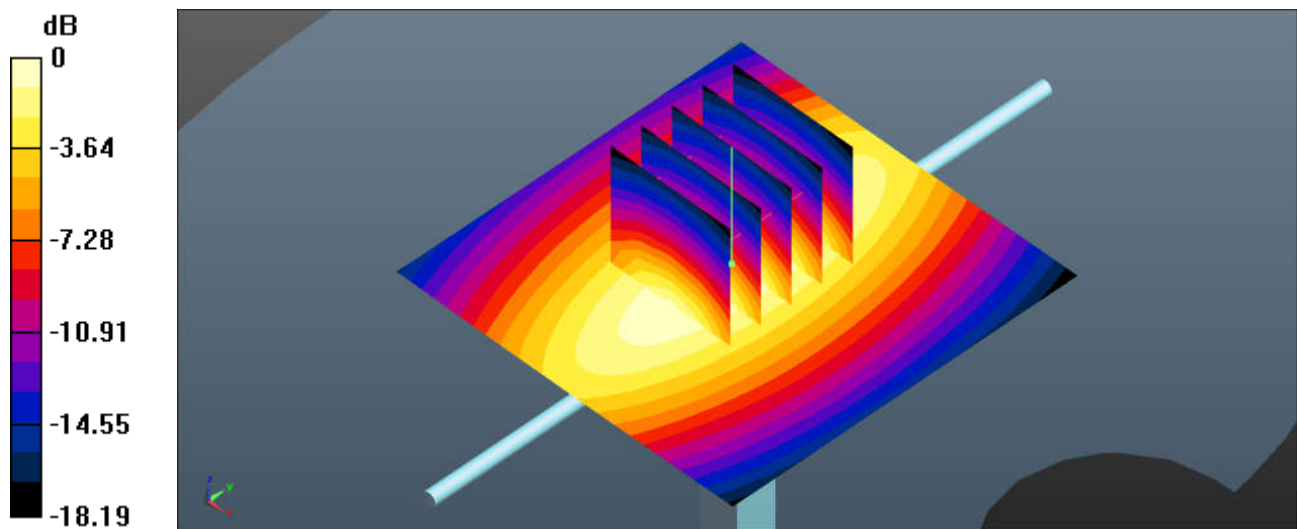
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.78 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 2.34 W/kg



0 dB = 2.34 W/kg = 3.69 dBW/kg

System Check_Head_1750MHz

DUT: D1750V2-1068

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

Medium: HSL_1750_190301 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.346$ S/m; $\epsilon_r = 40.529$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7306; ConvF(8.69, 8.69, 8.69); Calibrated: 2018/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2018/5/24
- Phantom: SAM_Right; Type: QD000P40CD; Serial: 1884
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.6 W/kg

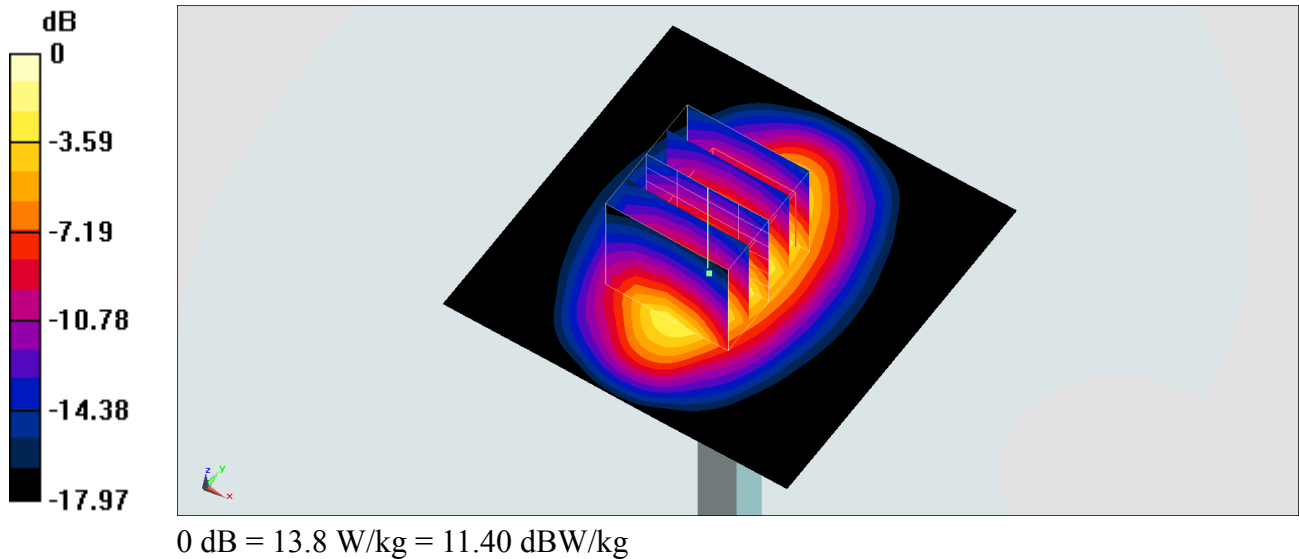
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 106.2 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 9.2 W/kg; SAR(10 g) = 4.92 W/kg

Maximum value of SAR (measured) = 13.8 W/kg



System Check_Head_1900MHz

DUT: D1900V2-5d041

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_190301 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 40.344$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7306; ConvF(8.26, 8.26, 8.26); Calibrated: 2018/7/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2018/5/24
- Phantom: SAM_Right; Type: QD000P40CD; Serial: 1884
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 112.2 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 19.4 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.32 W/kg

Maximum value of SAR (measured) = 16.1 W/kg

