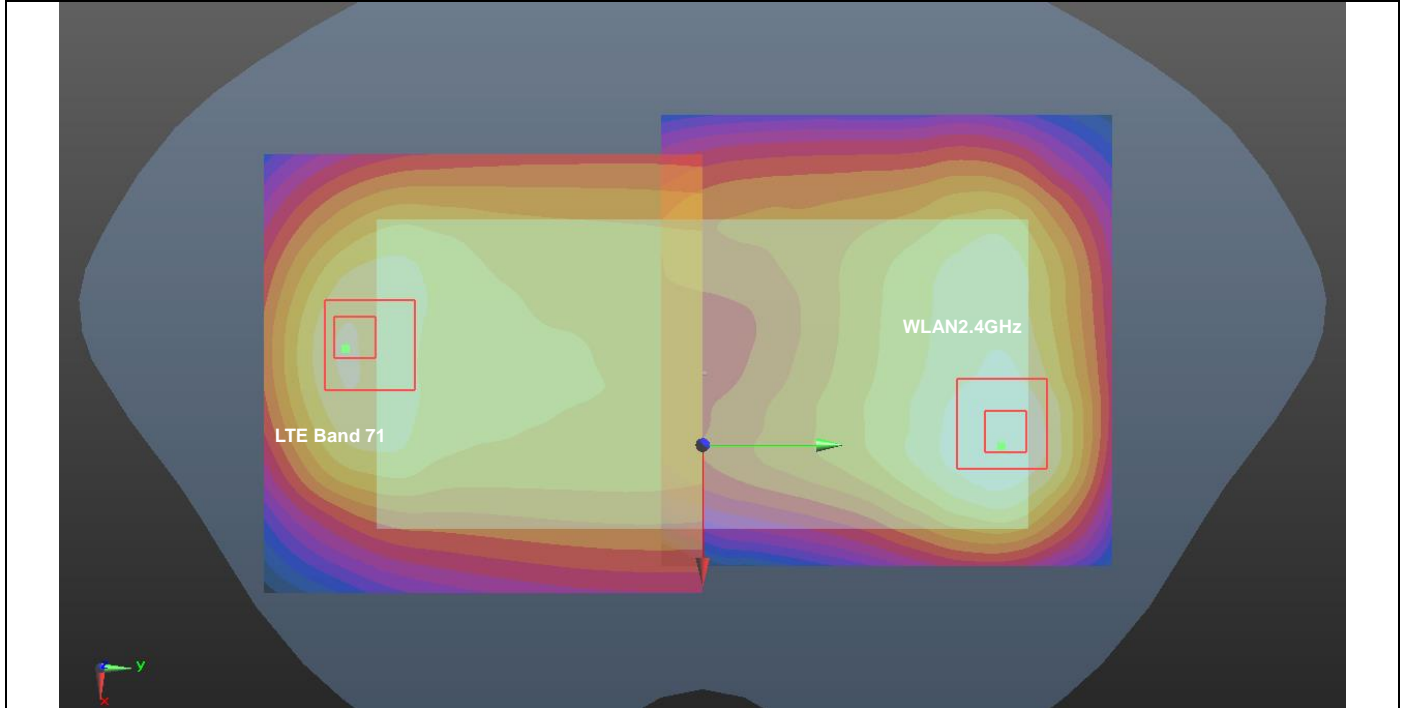
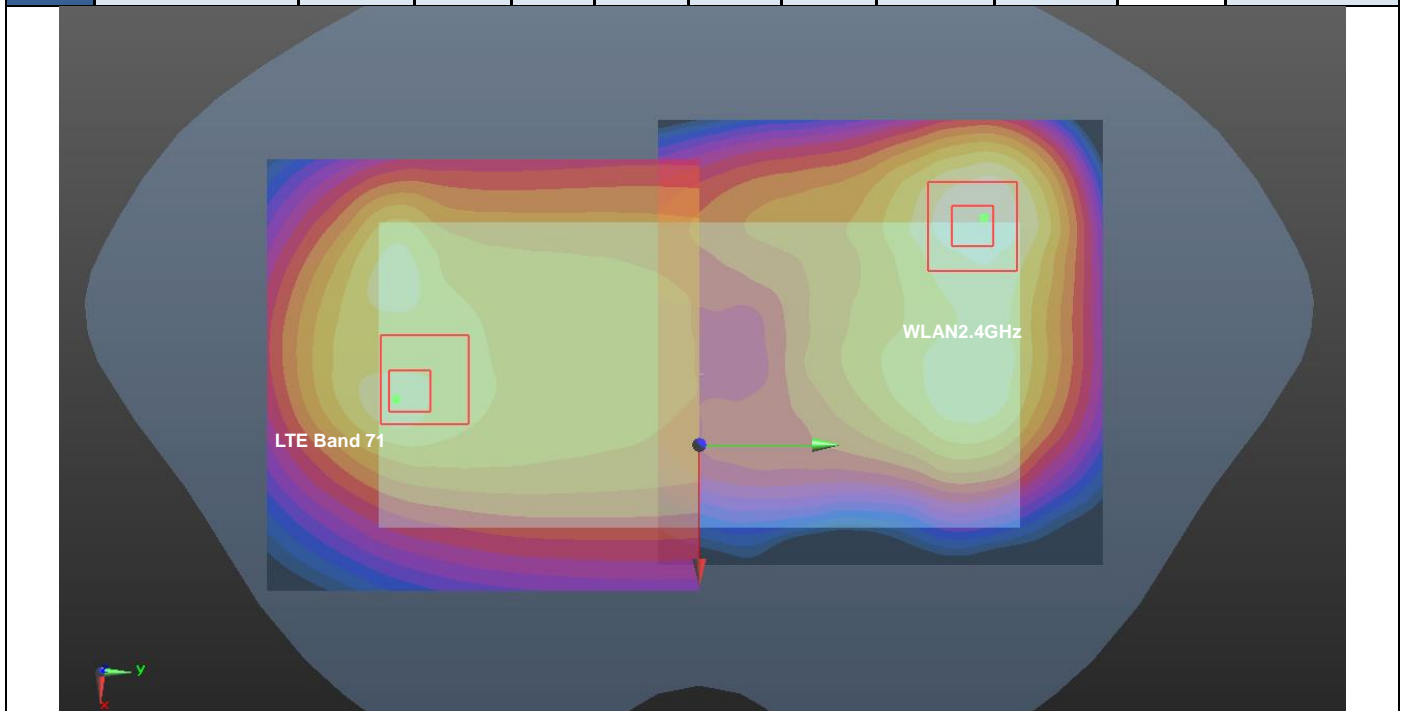


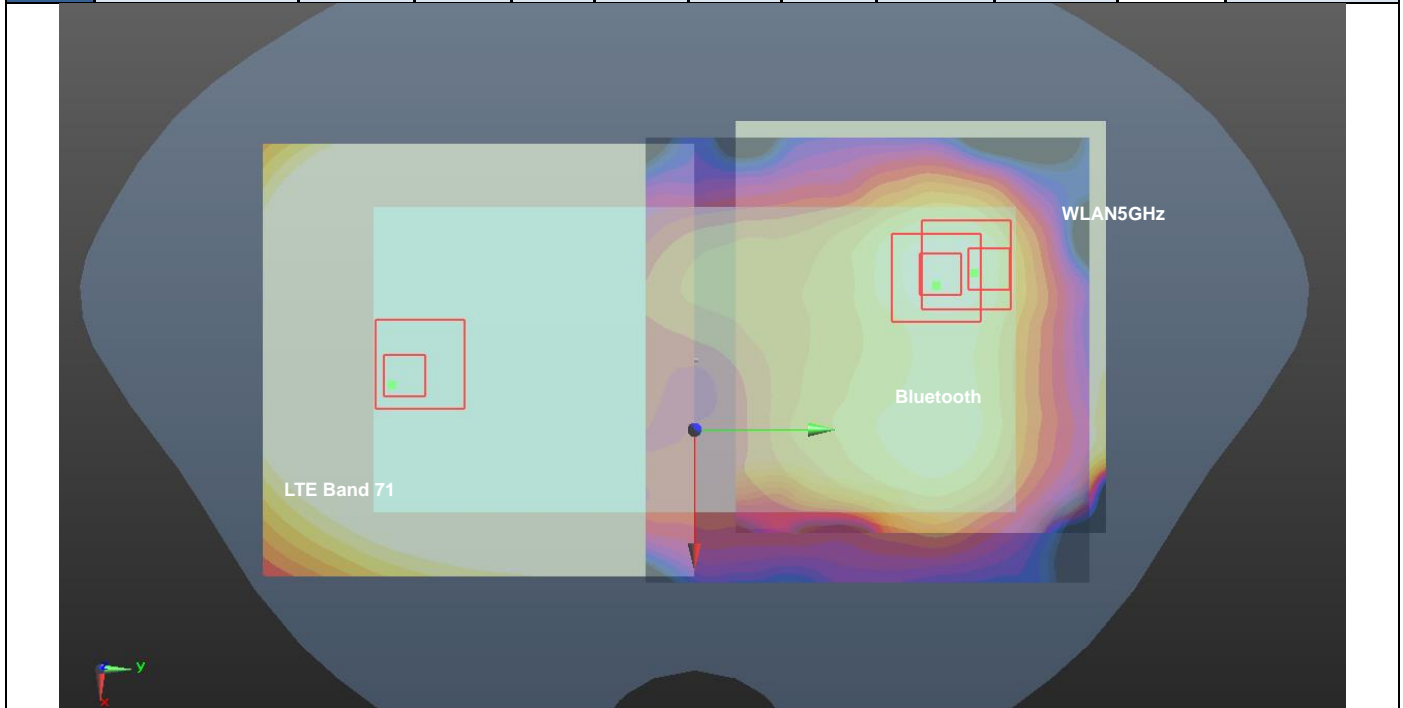
Case #49	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 71	Front	0.655	5	-6	-83.9	-3.67	163.0	1.63	0.01	Not required
	WLAN2.4GHz		0.97	5	22.2	76.6	1.71				



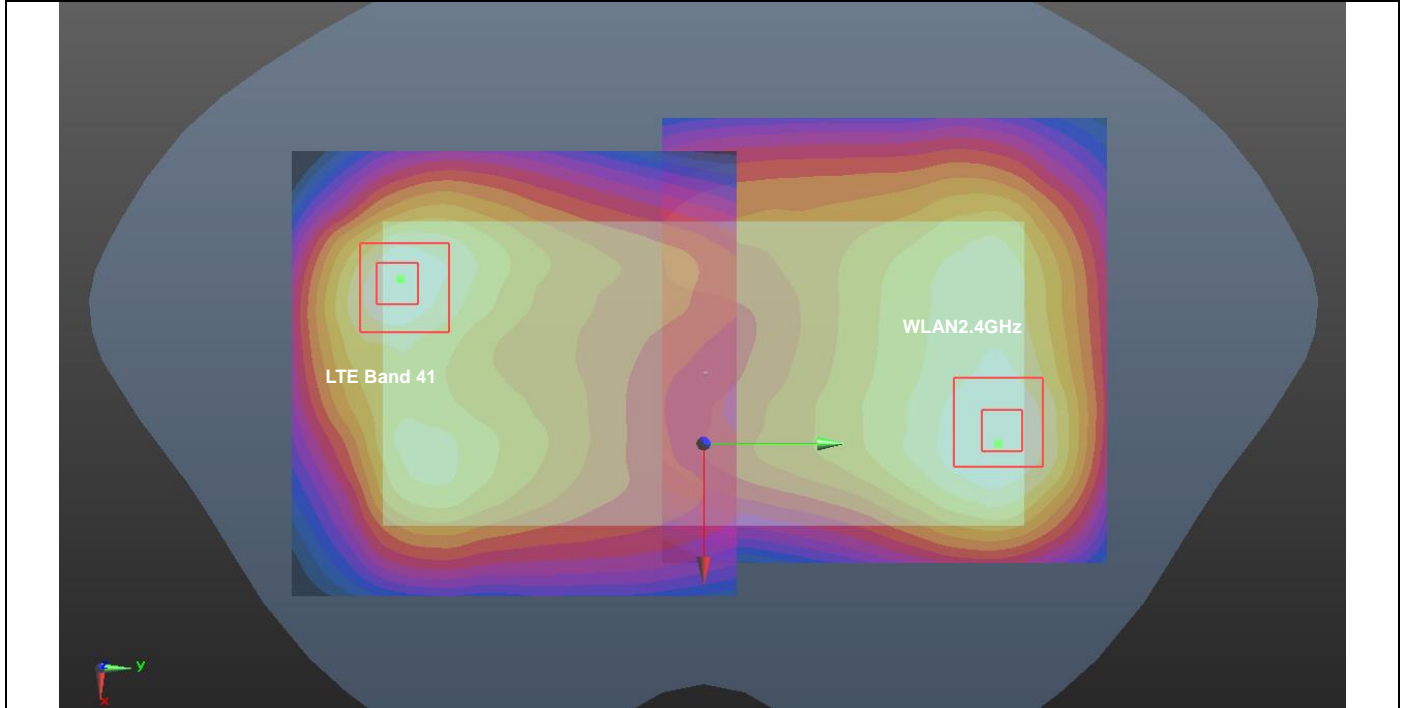
Case #50	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 71	Back	0.661	5	4.4	-73.5	-3.7	144.7	1.85	0.02	Not required
	WLAN2.4GHz		1.19	5	-29	67.2	1.56				



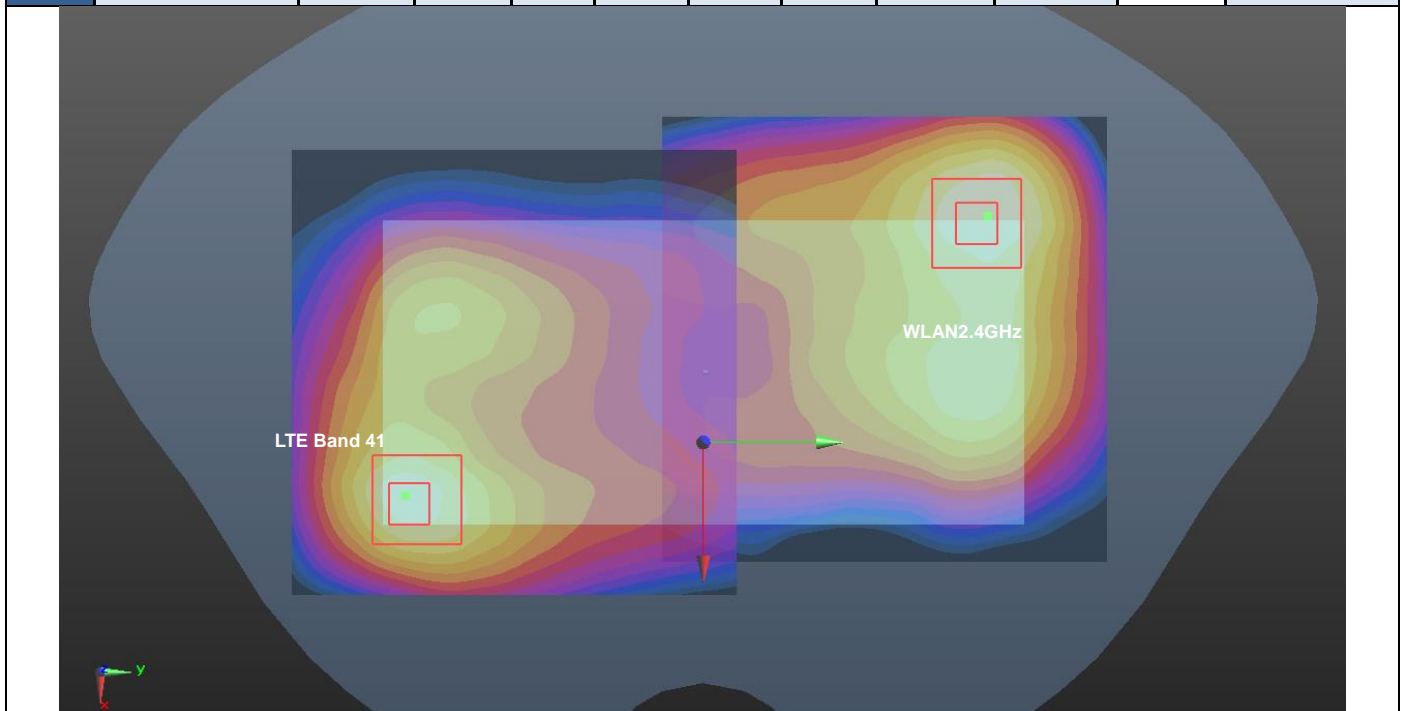
Case #51	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 71	Back	0.661	5	4.4	-73.5	-3.7	136.7	1.93	0.02	Not required
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				
	Bluetooth		0.066	5	-21	60.8	-1.97				
	LTE Band 71	Back	0.661	5	4.4	-73.5	-3.7	144.6	1.93	0.02	Not required
	Bluetooth		0.066	5	-21	60.8	-1.97				
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				



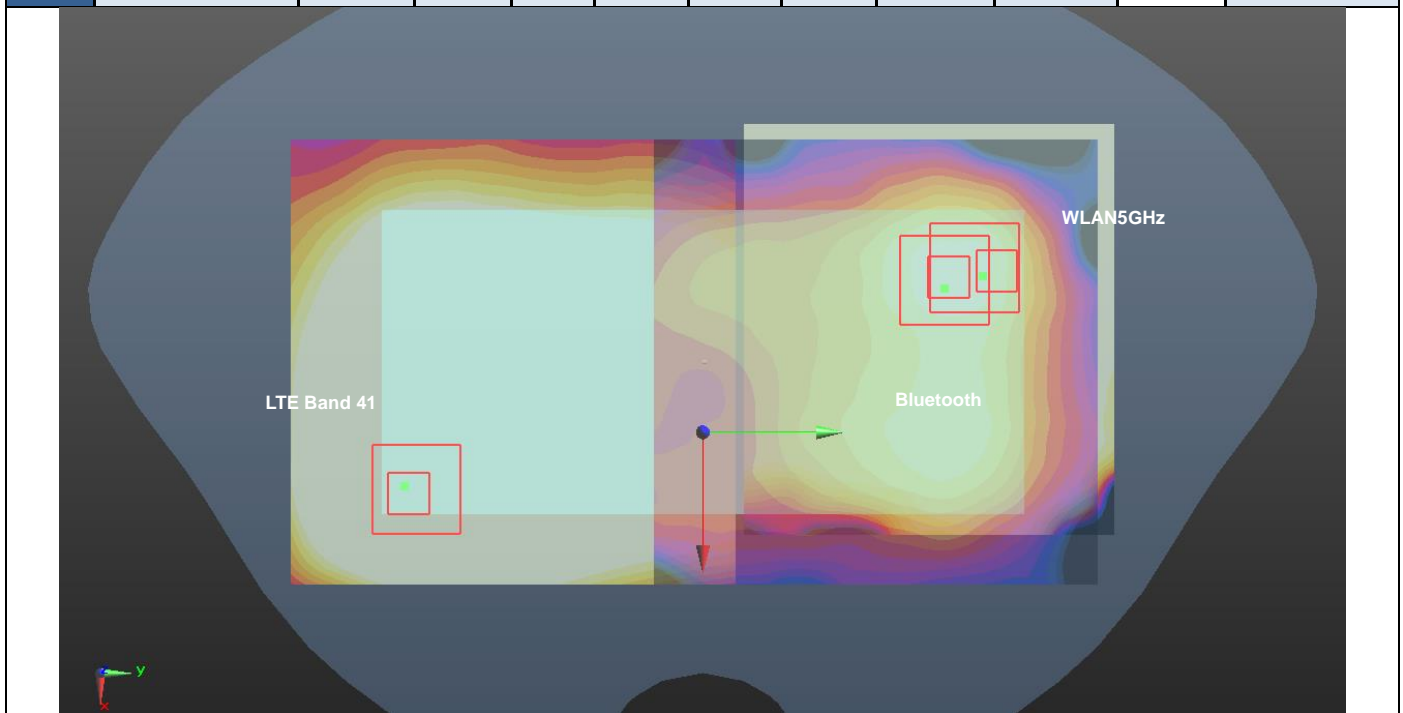
Case #52	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Front	1.247	5	-22.8	-77.6	-1.84	160.7	2.22	0.02	Not required
	WLAN2.4GHz		0.97	5	22.2	76.6	1.71				



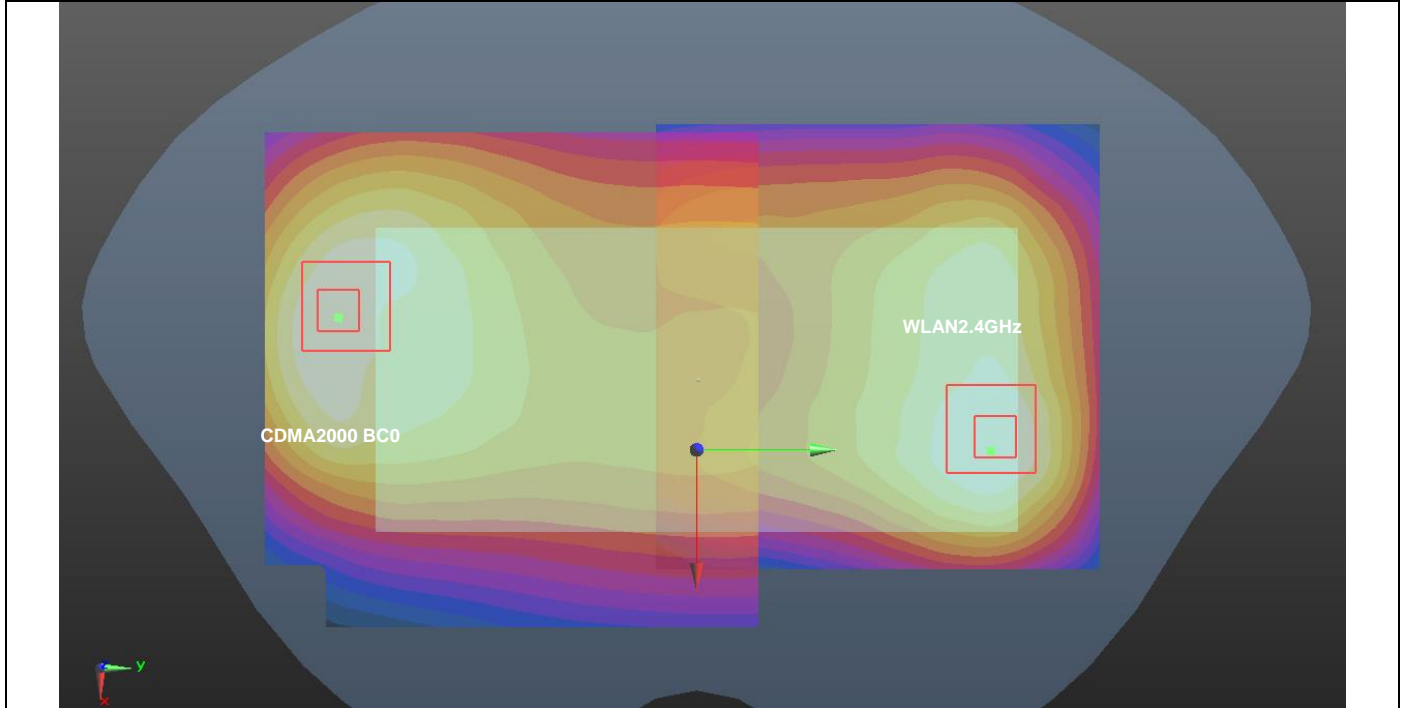
Case #53	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Back	1.355	5	32	-73.4	-1.6	153.3	2.55	0.03	Not required
	WLAN2.4GHz		1.19	5	-29	67.2	1.56				



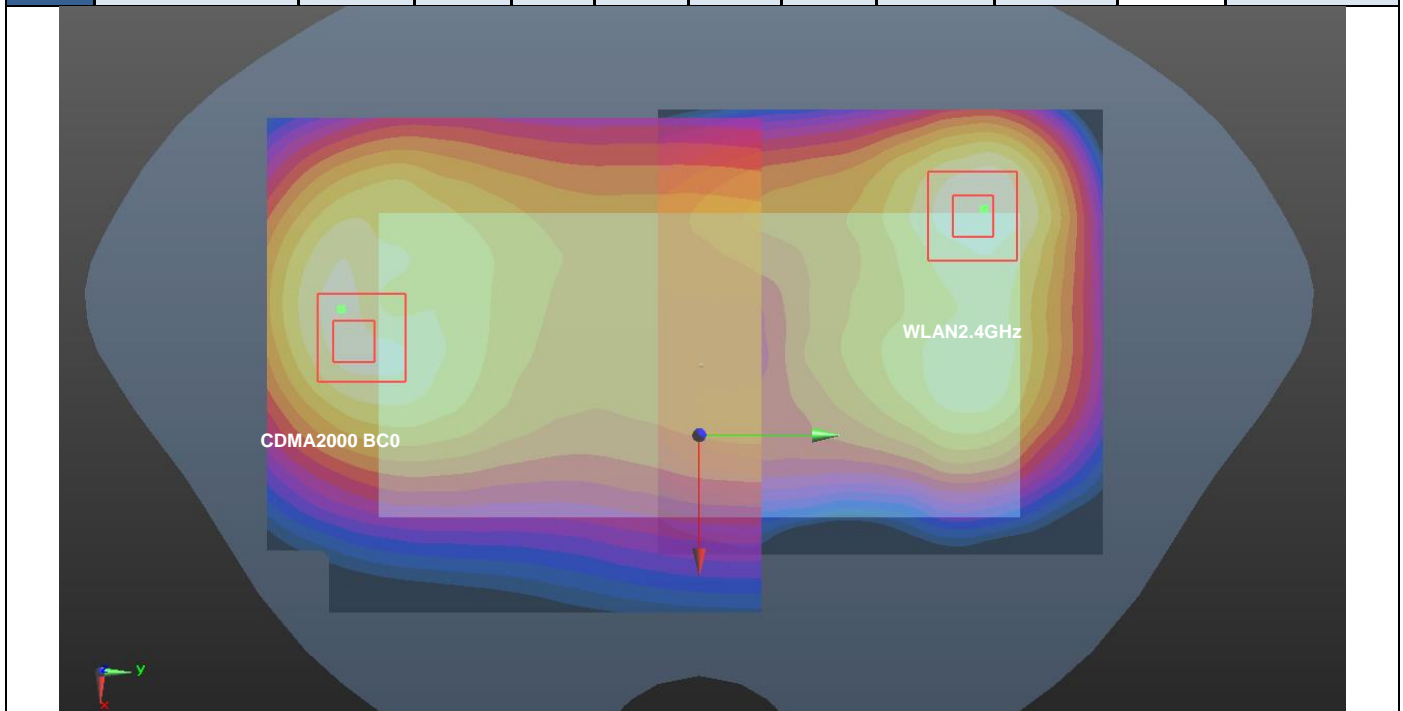
Case #54	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 41	Back	1.355	5	32	-73.4	-1.6	144.3	2.63	0.03	Not required
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				
	Bluetooth		0.066	5	-21	60.8	-1.97				
	LTE Band 41	Back	1.355	5	32	-73.4	-1.6	150.7	2.63	0.03	Not required
	Bluetooth		0.066	5	-21	60.8	-1.97				
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				



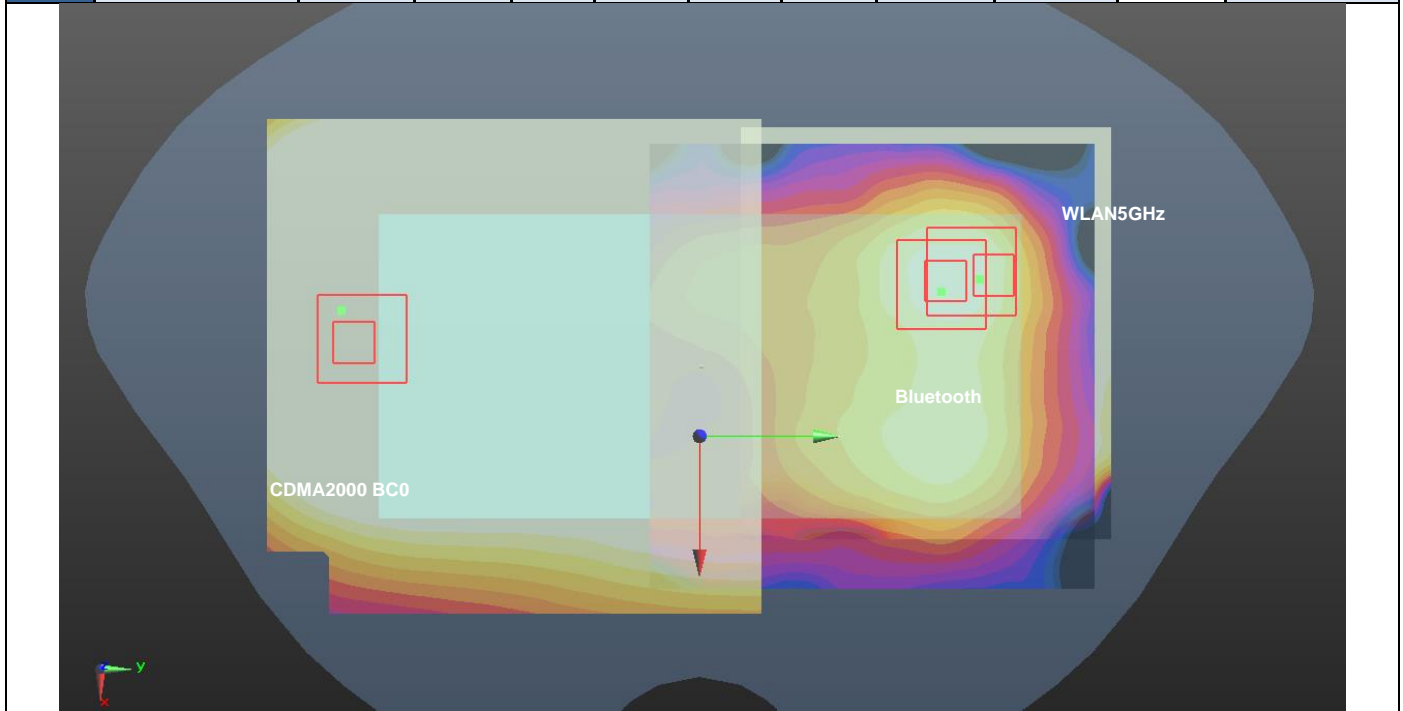
Case #55	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC0	Front	1.277	5	-16.6	-87	-1.98	168.2	2.25	0.02	Not required
	WLAN2.4GHz		0.97	5	22.2	76.6	1.71				



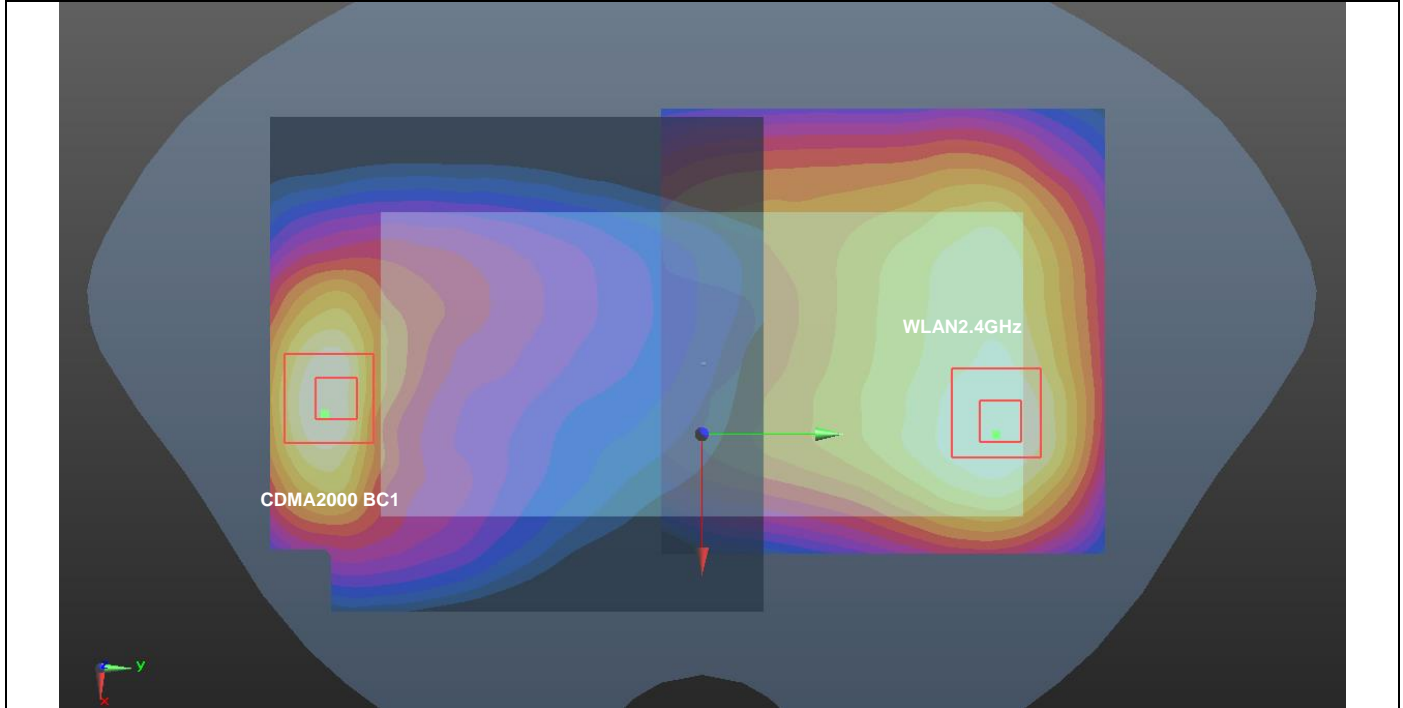
Case #56	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC0	Back	1.29	5	-7.1	-85.4	-1.98	154.2	2.48	0.03	Not required
	WLAN2.4GHz		1.19	5	-29	67.2	1.56				



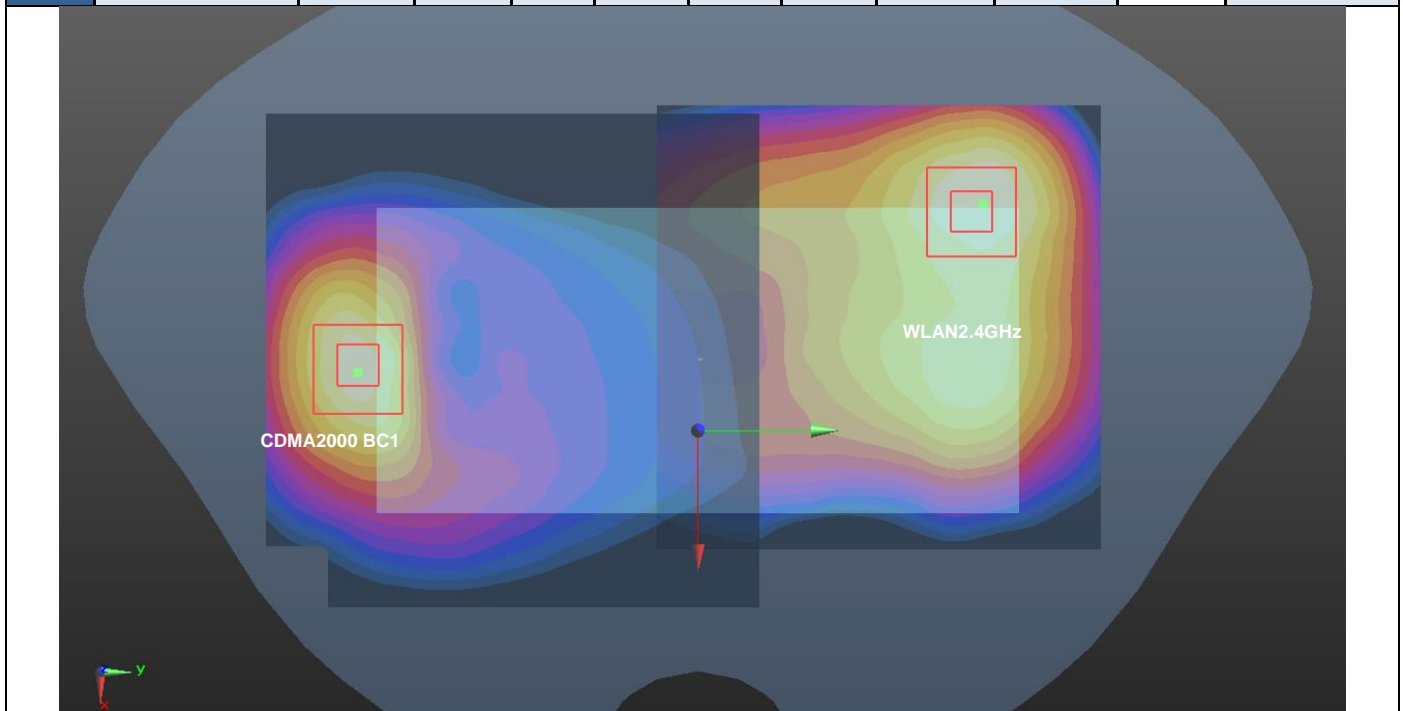
Case #57	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #57	CDMA2000 BC0	Back	1.29	5	-7.1	-85.4	-1.98	146.9	2.56	0.03	Not required
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				
	Bluetooth		0.066	5	-21	60.8	-1.97				
	CDMA2000 BC0	Back	1.29	5	-7.1	-85.4	-1.98	155.3	2.56	0.03	Not required
	Bluetooth		0.066	5	-21	60.8	-1.97				
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				



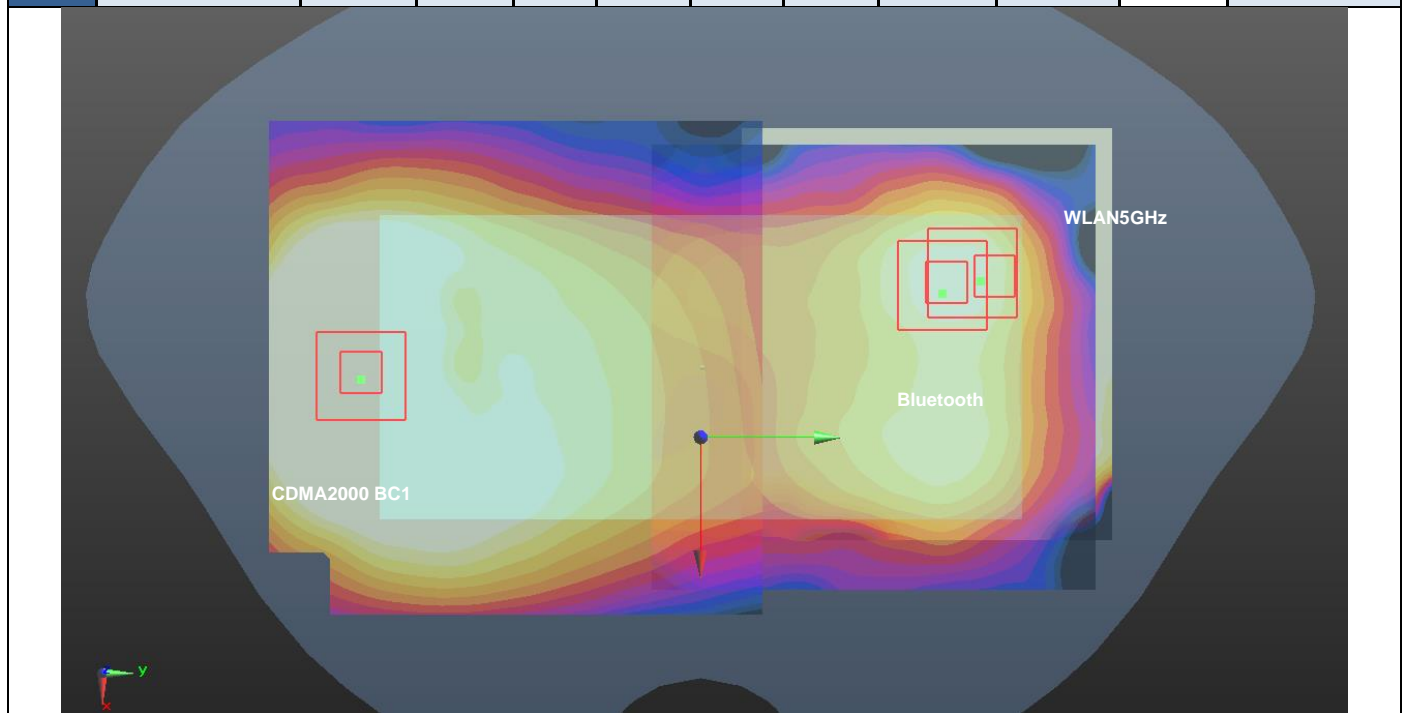
Case #58	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC1	Front	1.103	5	8.8	-88.3	-1.78	165.5	2.07	0.02	Not required
	WLAN2.4GHz		0.97	5	22.2	76.6	1.71				



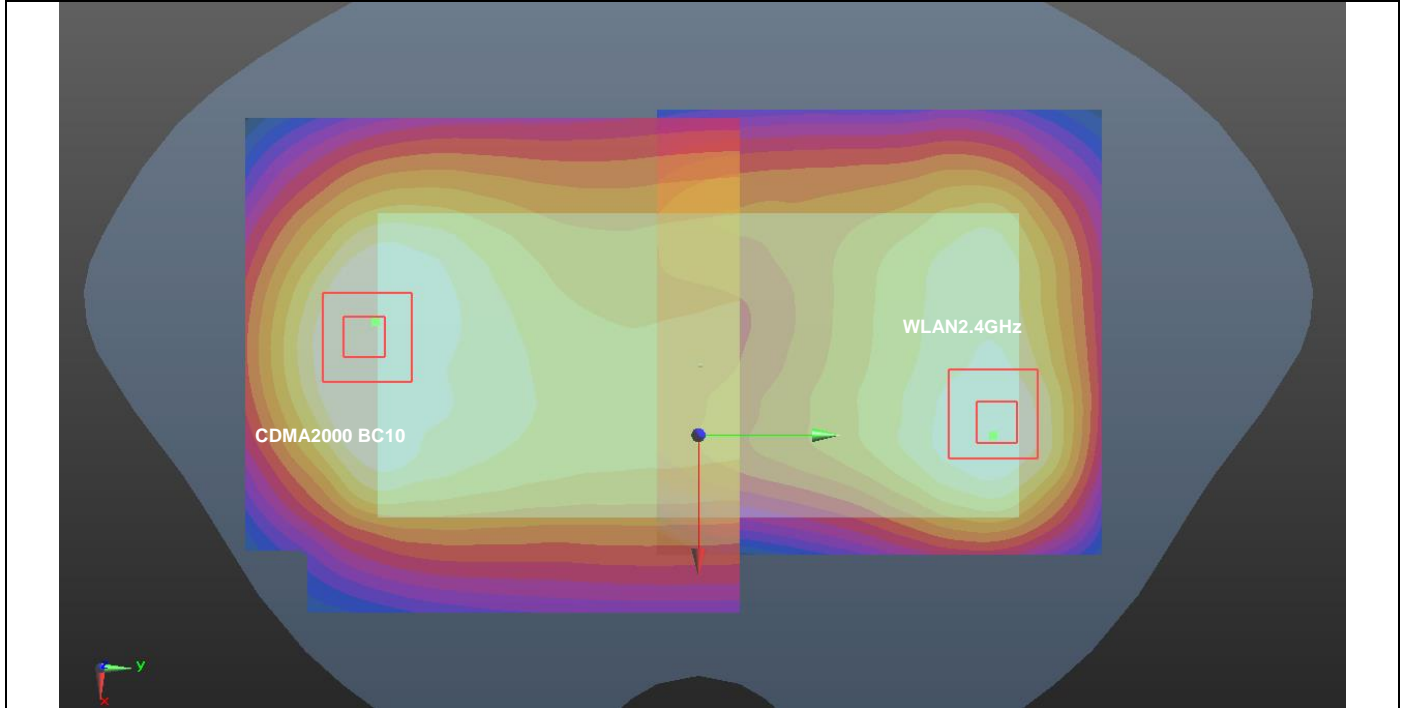
Case #59	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC1	Back	1.181	5	-1.8	-82.5	-1.91	152.2	2.37	0.02	Not required
	WLAN2.4GHz		1.19	5	-29	67.2	1.56				



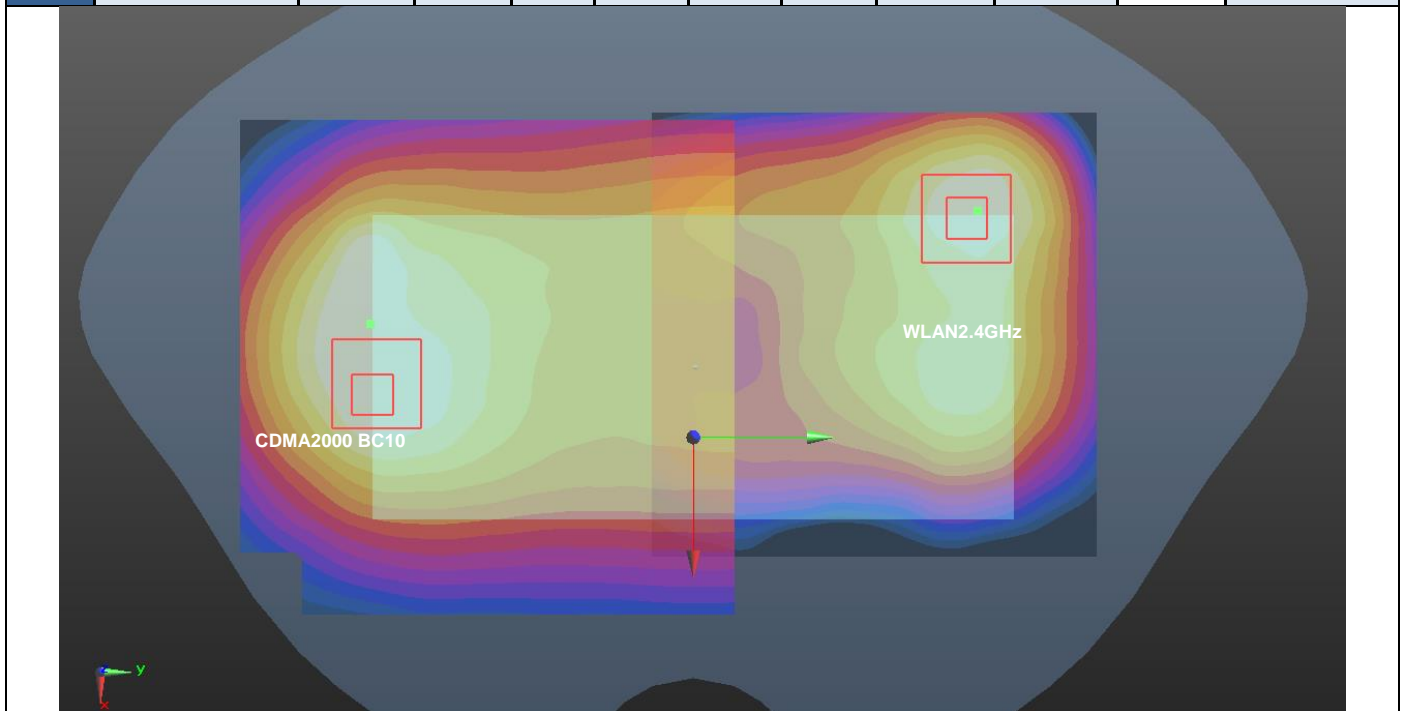
Case #60	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case #60	CDMA2000 BC1	Back	1.181	5	-1.8	-82.5	-1.91	144.6	2.45	0.03	Not required
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				
	Bluetooth		0.066	5	-21	60.8	-1.97				
	CDMA2000 BC1	Back	1.181	5	-1.8	-82.5	-1.91	152.7	2.45	0.03	Not required
	Bluetooth		0.066	5	-21	60.8	-1.97				
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				



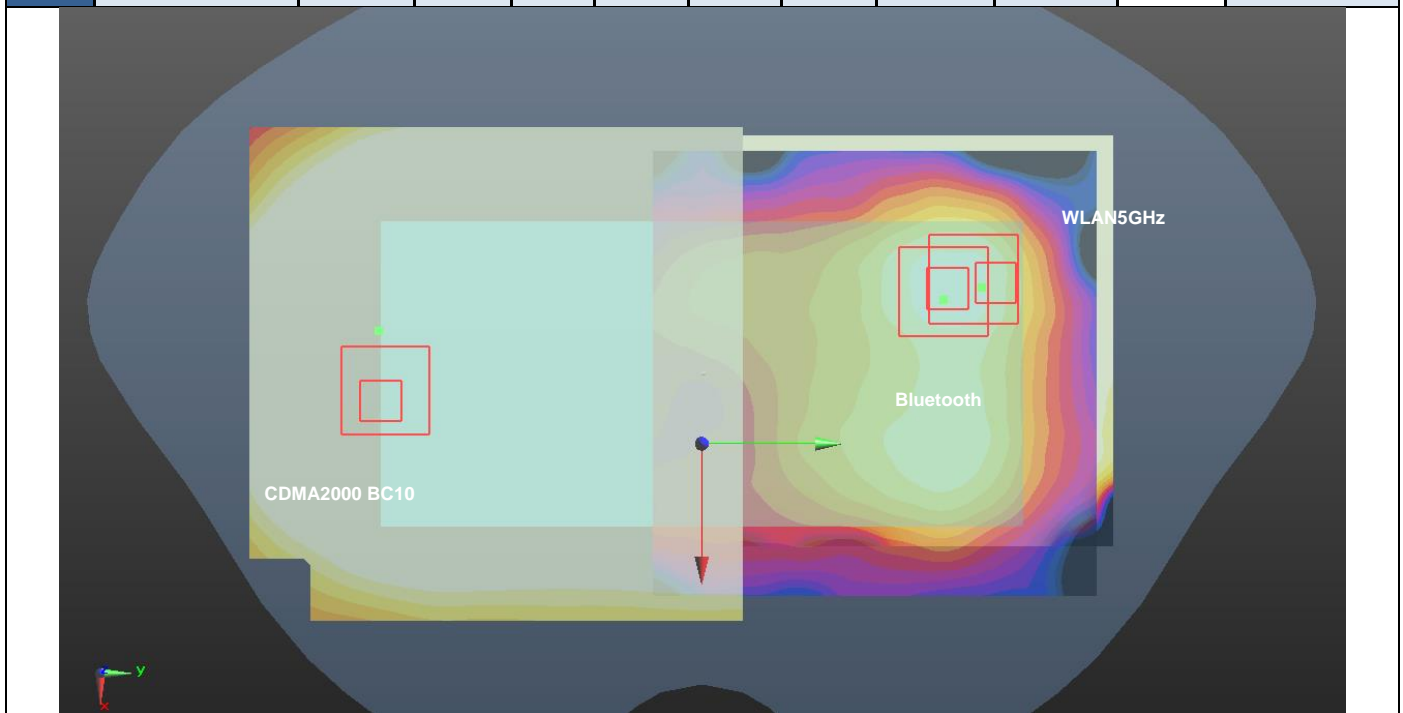
Case #61	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC10	Front	1.351	5	-7.3	-81.7	-3.03	161.1	2.32	0.02	Not required
	WLAN2.4GHz		0.97	5	22.2	76.6	1.71				



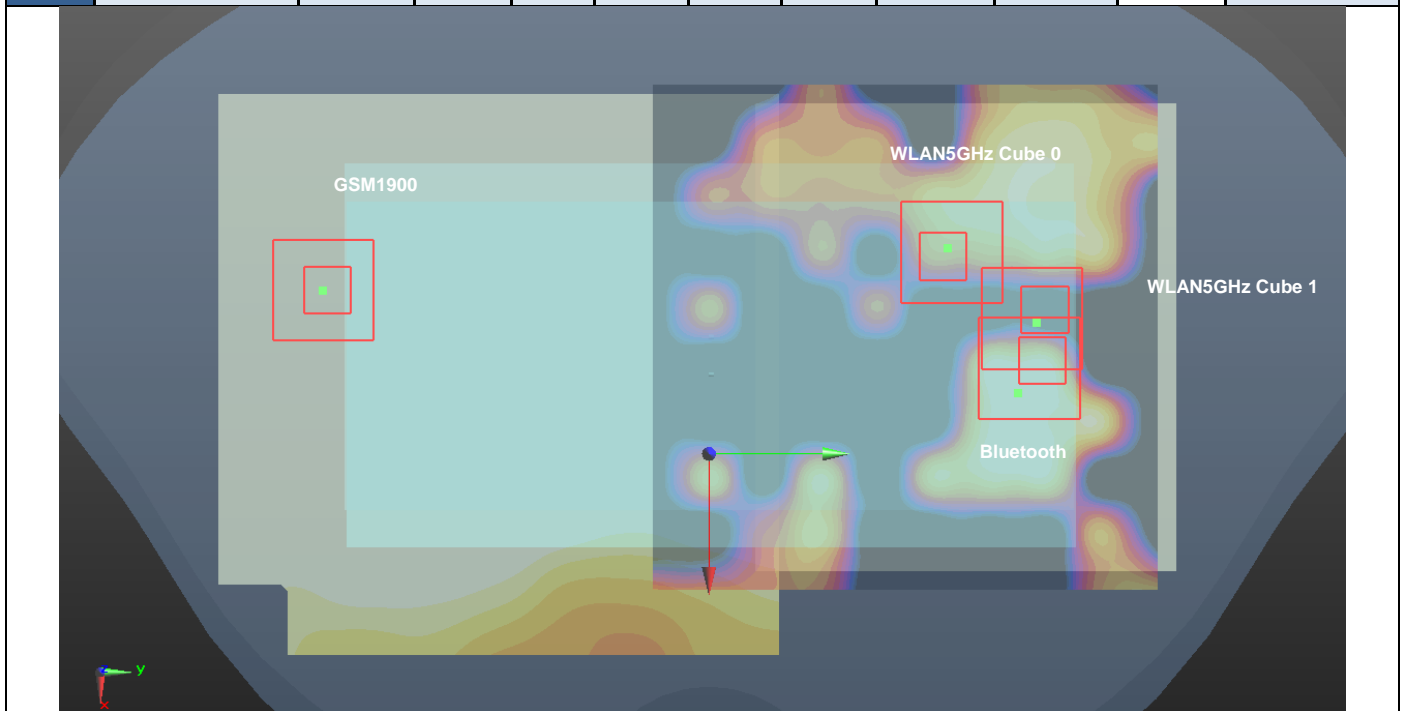
Case #62	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC10	Back	1.184	5	7.1	-78.5	-3.03	150.2	2.37	0.02	Not required
	WLAN2.4GHz		1.19	5	-29	67.2	1.56				



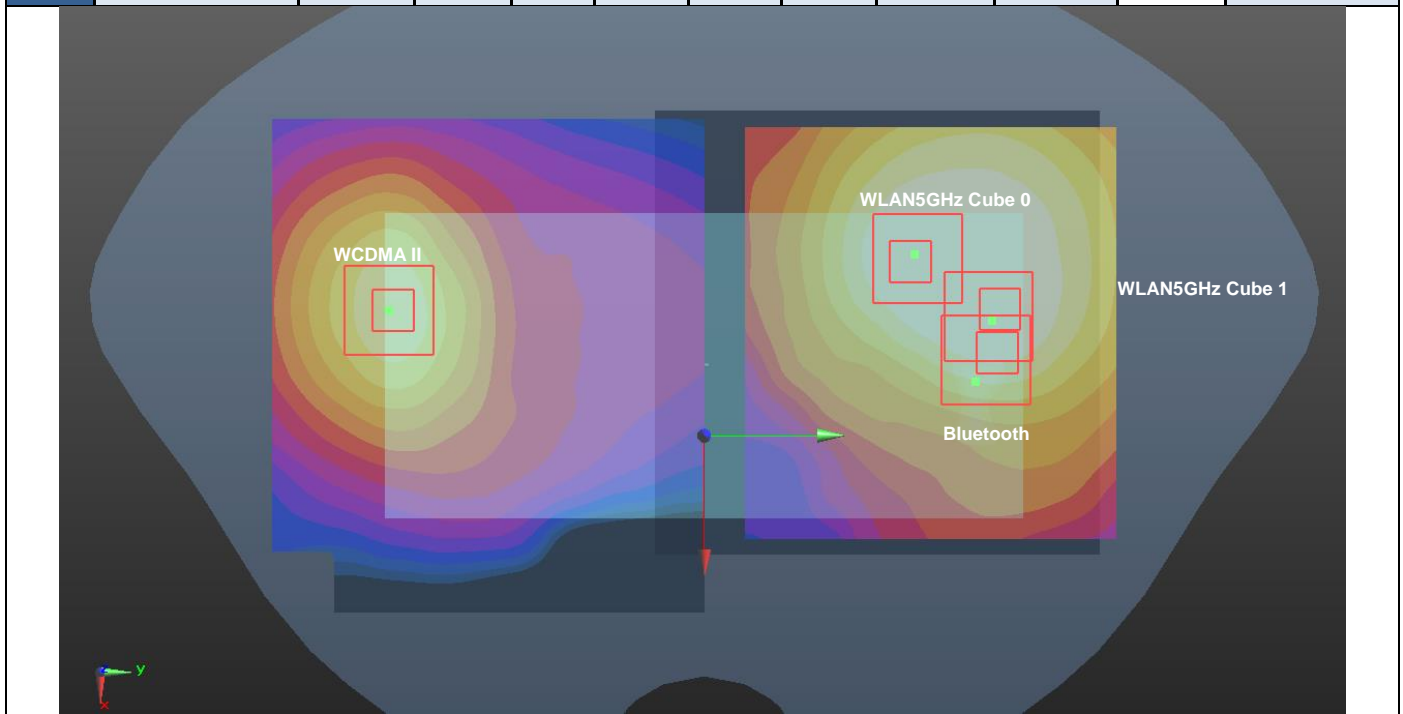
Case #63	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	CDMA2000 BC10	Back	1.184	5	7.1	-78.5	-3.03	142.1	2.46	0.03	Not required
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				
	Bluetooth		0.066	5	-21	60.8	-1.97				
	CDMA2000 BC10	Back	1.184	5	7.1	-78.5	-3.03	149.9	2.46	0.03	Not required
	Bluetooth		0.066	5	-21	60.8	-1.97				
	WLAN5GHz		1.207	5	-15.4	69.6	1.64				



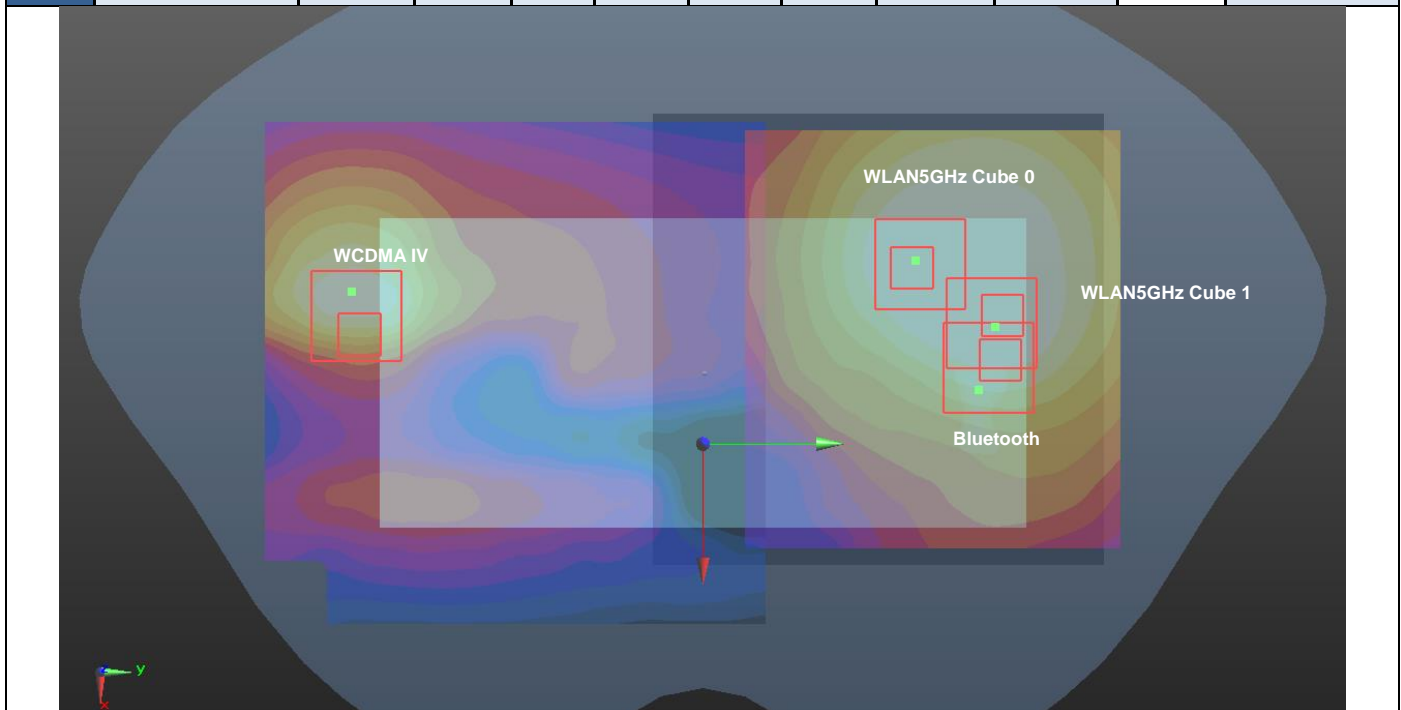
Case #64	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #64	GSM1900	Back	0.481	19	-18	-80.9	-3.04	149.3	1.64	0.01	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	GSM1900	Back	0.481	19	-18	-80.9	-3.04	129.6	1.64	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	GSM1900	Back	0.481	19	-18	-80.9	-3.04	149.3	1.64	0.01	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
	GSM1900	Back	0.481	19	-18	-80.9	-3.04	151.4	1.64	0.01	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				



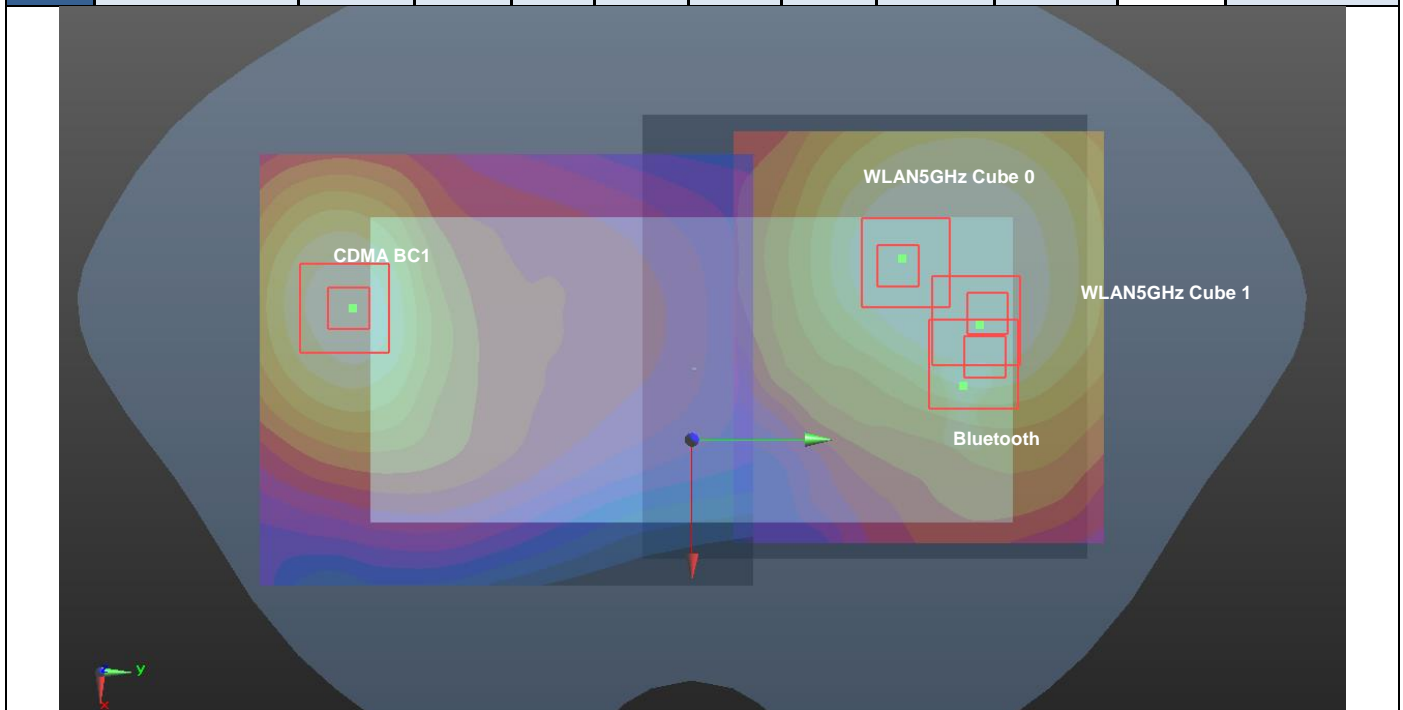
Case #65	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #65	WCDMA II	Back	0.882	19	-13.5	-74.9	-3.15	142.6	2.04	0.02	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	WCDMA II	Back	0.882	19	-13.5	-74.9	-3.15	123.6	2.04	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	WCDMA II	Back	0.882	19	-13.5	-74.9	-3.15	142.6	2.04	0.02	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
	WCDMA II	Back	0.882	19	-13.5	-74.9	-3.15	145.2	2.04	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				



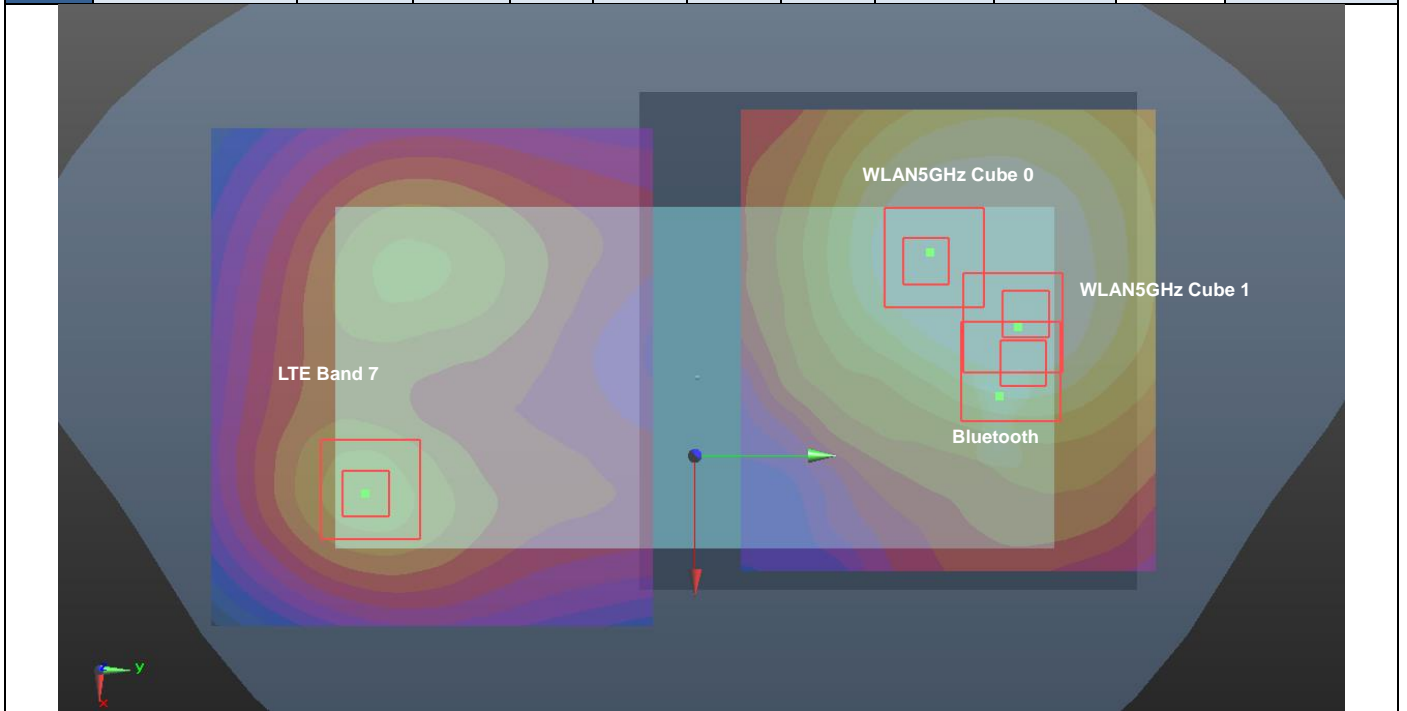
Case #66	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #66	WCDMA IV	Back	0.91	19	-6.7	-80.8	-3.03	147.6	2.07	0.02	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	WCDMA IV	Back	0.91	19	-6.7	-80.8	-3.03	129.8	2.07	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	WCDMA IV	Back	0.91	19	-6.7	-80.8	-3.03	147.6	2.07	0.02	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
WCDMA IV	Back	0.91	19	-6.7	-80.8	-3.03	150.9	2.07	0.02	Not required	
Bluetooth		0.008	19	8	66	1.64					
WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65					



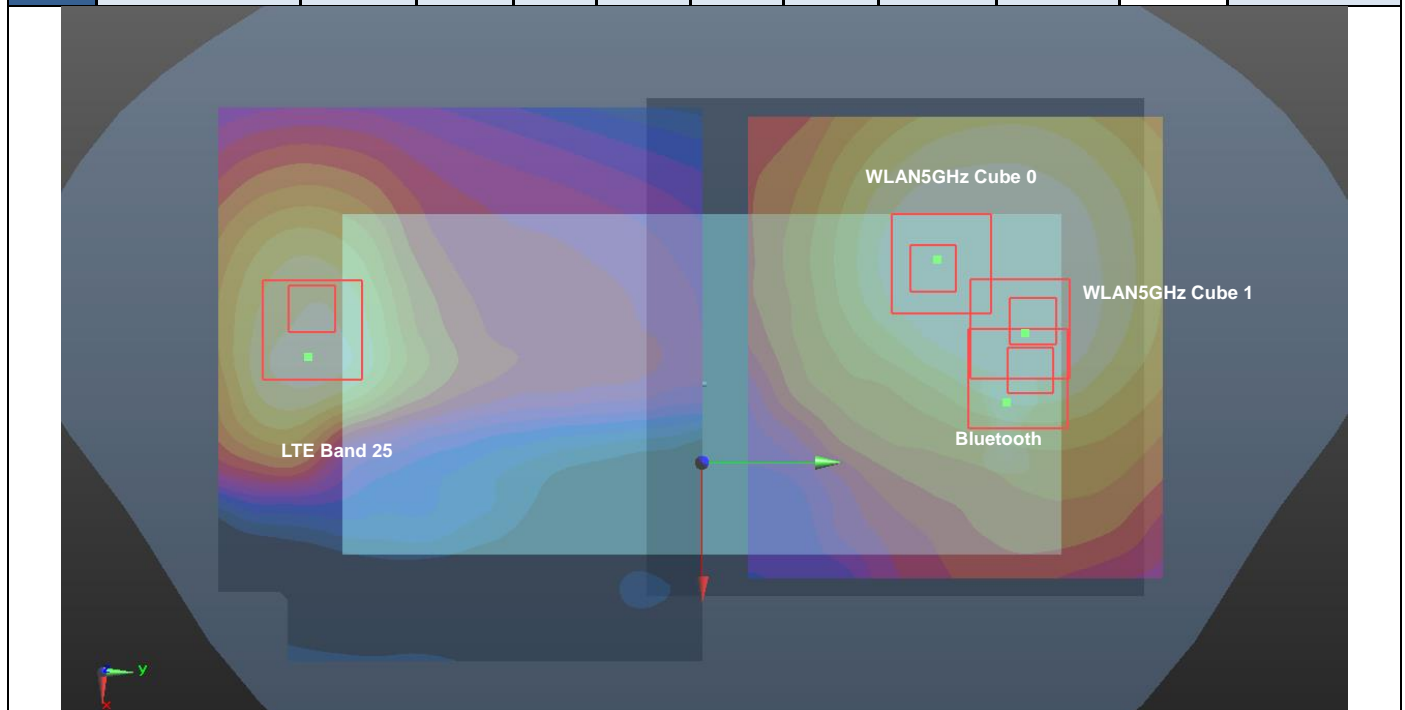
Case #68	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #68	CDMA BC1	Back	1.092	19	-15	-82.5	-3.06	150.3	2.25	0.02	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	CDMA BC1	Back	1.092	19	-15	-82.5	-3.06	131.2	2.25	0.03	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	CDMA BC1	Back	1.092	19	-15	-82.5	-3.06	150.3	2.25	0.02	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
CDMA BC1	Back	1.092	19	-15	-82.5	-3.06	152.8	2.25	0.02	Not required	
Bluetooth		0.008	19	8	66	1.64					
WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65					



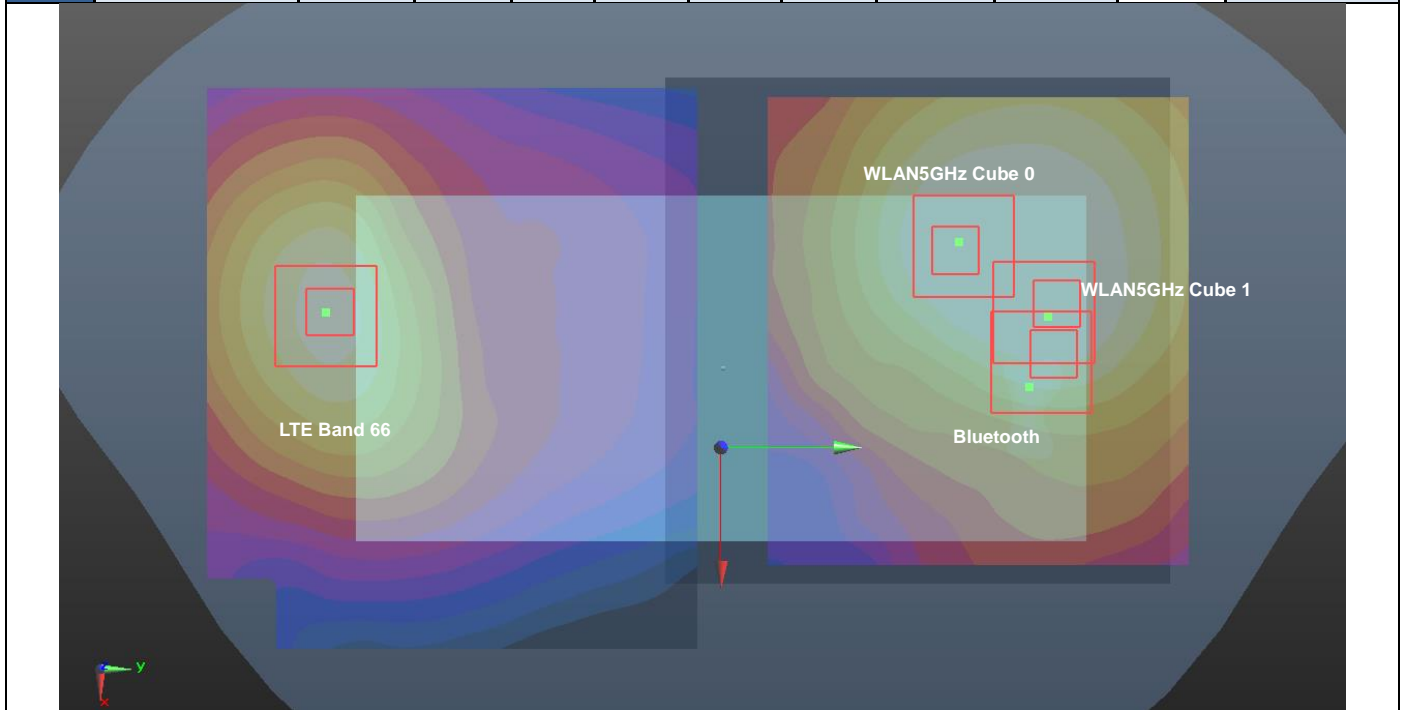
Case #69	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #69	LTE Band 7	Back	0.561	19	24.2	-71.4	-1.65	138.4	1.72	0.02	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	LTE Band 7	Back	0.561	19	24.2	-71.4	-1.65	126.5	1.72	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	LTE Band 7	Back	0.561	19	24.2	-71.4	-1.65	138.4	1.72	0.02	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
	LTE Band 7	Back	0.561	19	24.2	-71.4	-1.65	144.7	1.72	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				



Case #70	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #70	LTE Band 25	Back	1.205	19	-18.8	-83.9	-3.06	152.3	2.36	0.02	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	LTE Band 25	Back	1.205	19	-18.8	-83.9	-3.06	132.6	2.36	0.03	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	LTE Band 25	Back	1.205	19	-18.8	-83.9	-3.06	152.3	2.36	0.02	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
	LTE Band 25	Back	1.205	19	-18.8	-83.9	-3.06	154.5	2.36	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				

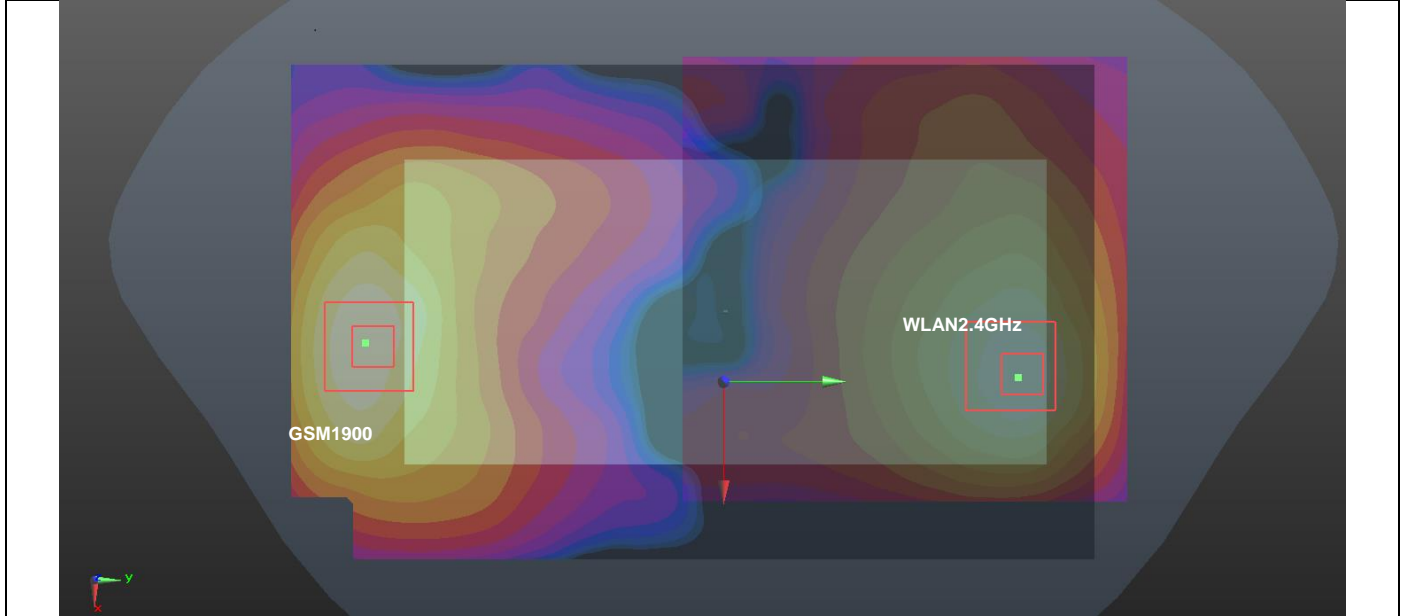


Case #71	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #71	LTE Band 66	Back	0.923	19	-12	-84.5	-3.07	151.9	2.08	0.02	Not required
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	Bluetooth		0.008	19	8	66	1.64				
	LTE Band 66	Back	0.923	19	-12	-84.5	-3.07	133.2	2.08	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 0		1.15	19	-15.8	48.6	1.6				
	LTE Band 66	Back	0.923	19	-12	-84.5	-3.07	151.9	2.08	0.02	Not required
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				
	Bluetooth		0.008	19	8	66	1.64				
	LTE Band 66	Back	0.923	19	-12	-84.5	-3.07	154.7	2.08	0.02	Not required
	Bluetooth		0.008	19	8	66	1.64				
	WLAN5GHz Cube 1		1.15	19	-6.2	70	1.65				

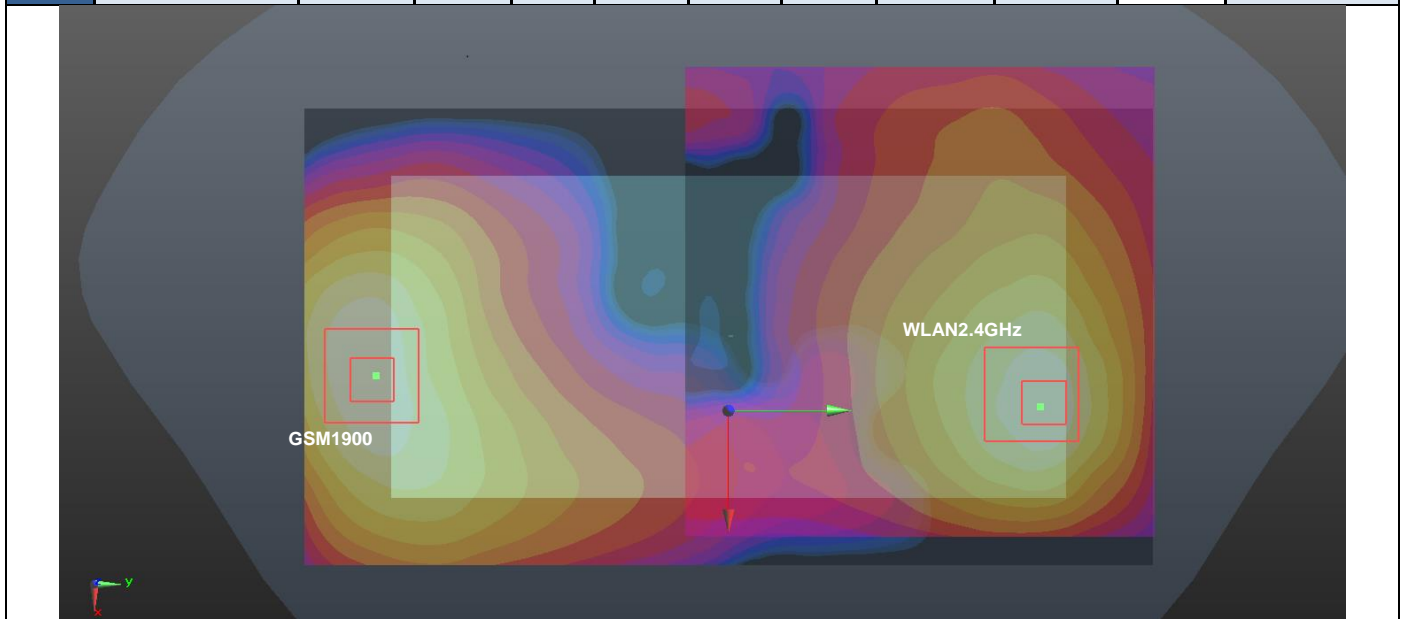


10g SAR

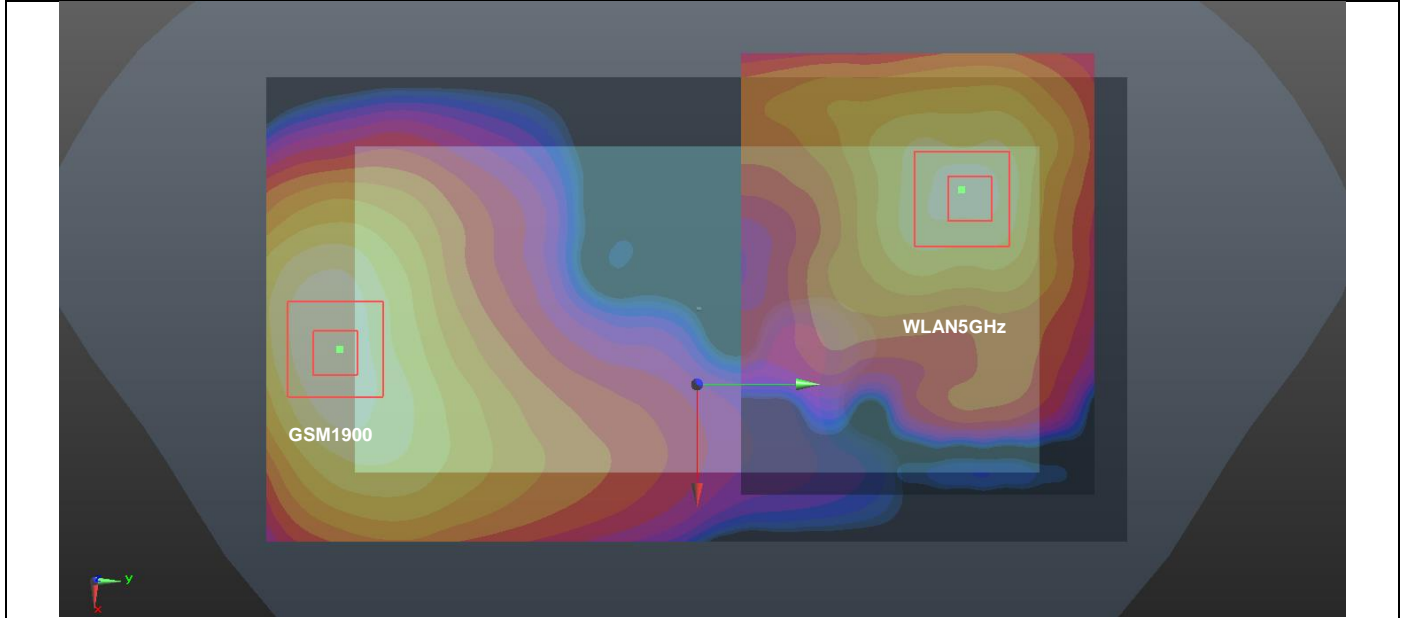
Case #10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	GSM1900				X	Y	Z				
	GSM1900	Front	3.126	0	9.1	-85.4	-1.55	161.7	6.20	0.10	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



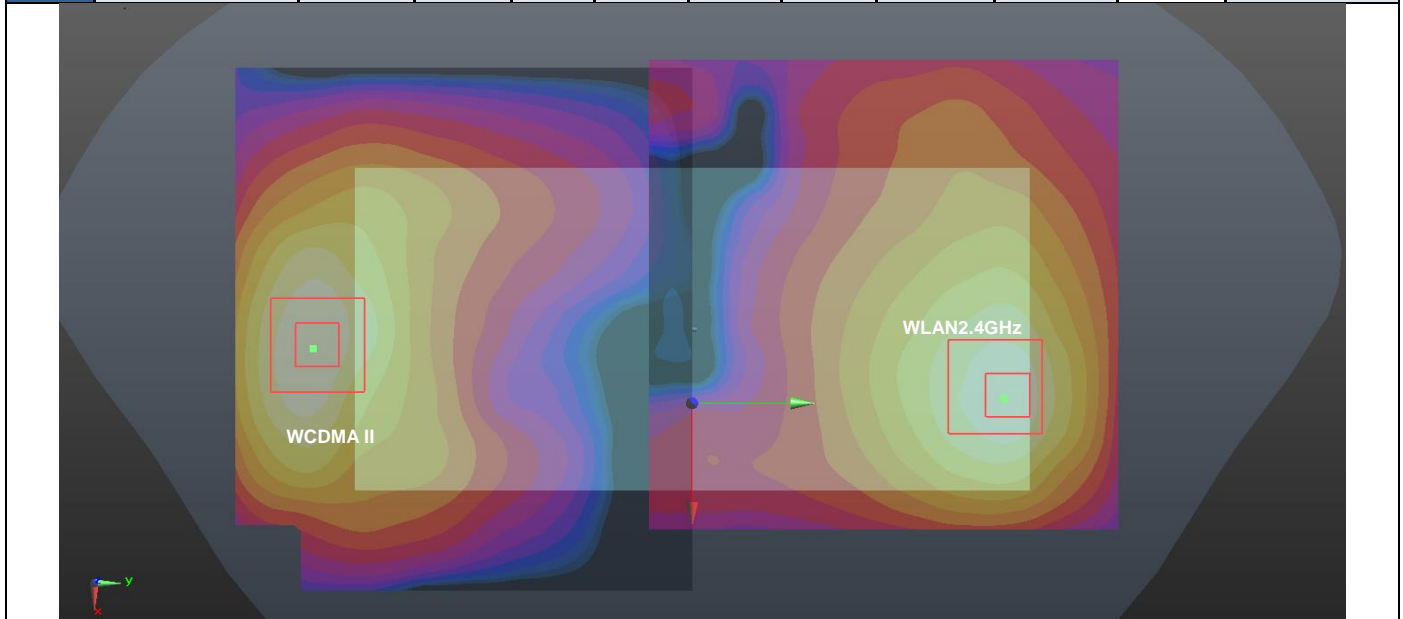
Case #02	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	GSM1900				X	Y	Z				
	GSM1900	Back	2.288	0	15.4	-79.4	-1.48	142.9	5.21	0.08	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



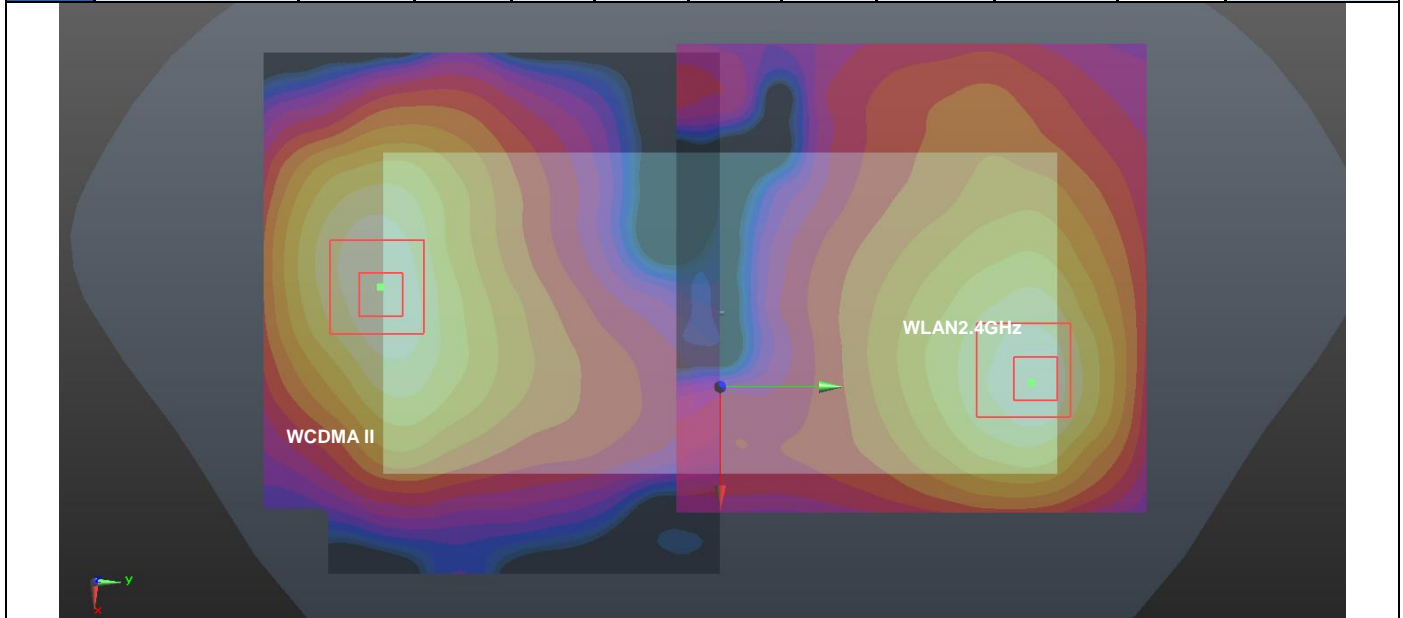
Case #03	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900	Back	2.288	0	15.4	-79.4	-1.48	152.8	5.39	0.08	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



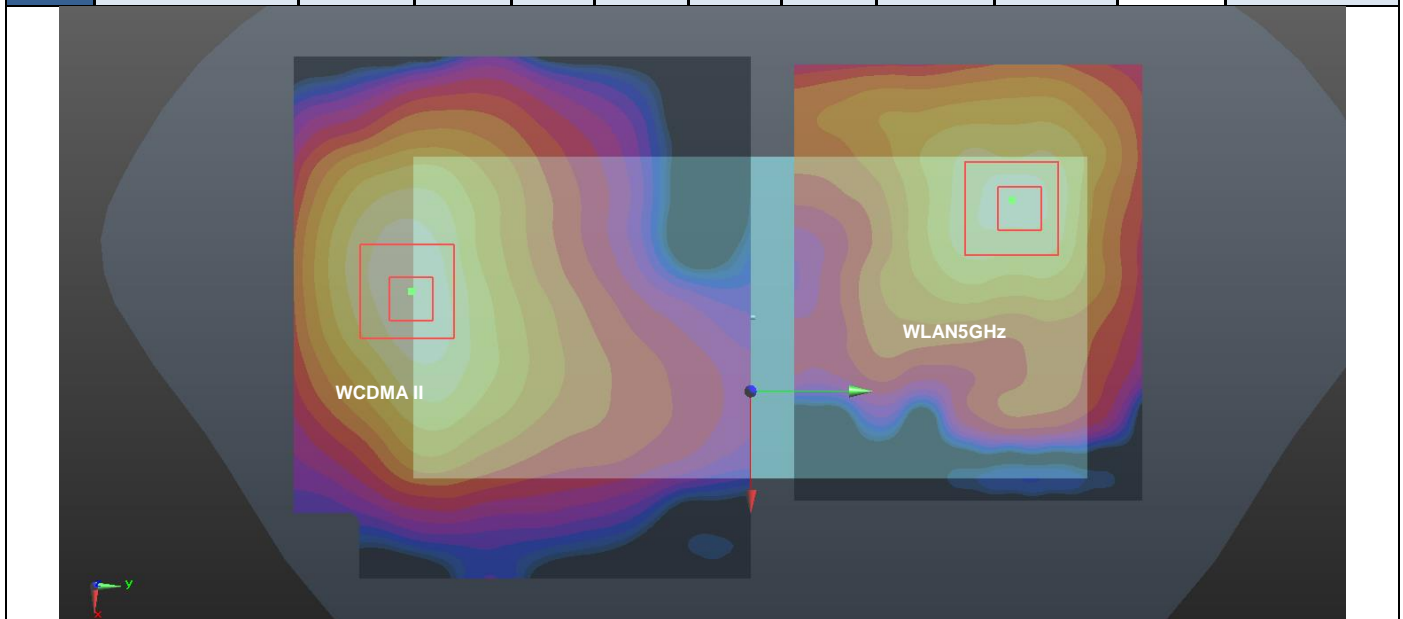
Case #04	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II	Front	2.884	0	4.5	-85.4	-1.63	162.2	5.96	0.09	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



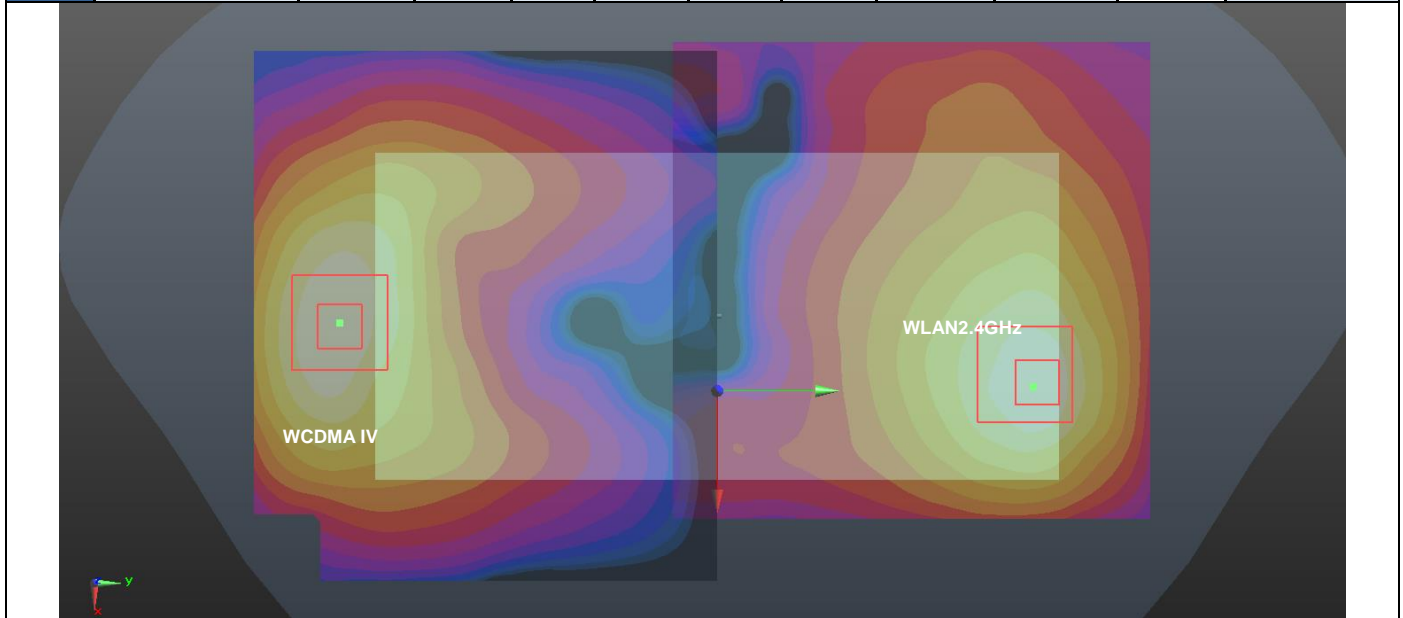
Case #05	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II	Back	2.775	0	0.4	-74.8	-2.8	135.8	5.70	0.10	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



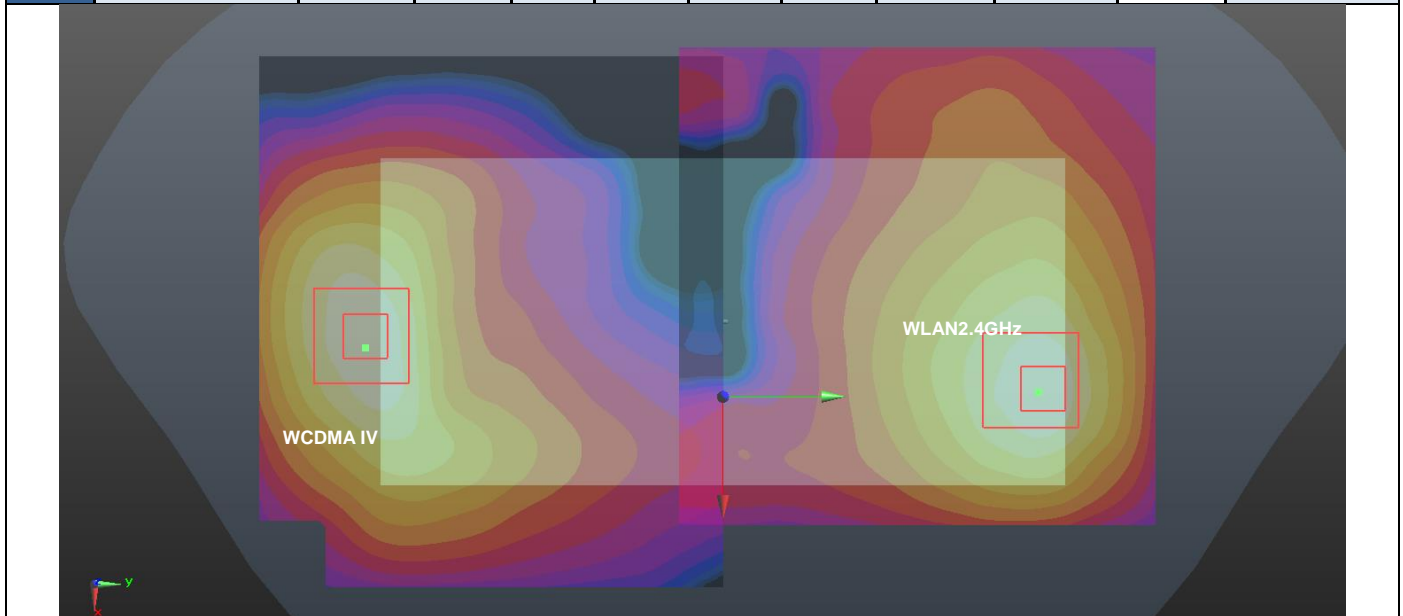
Case #06	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II	Back	2.775	0	0.4	-74.8	-2.8	144.8	5.88	0.10	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



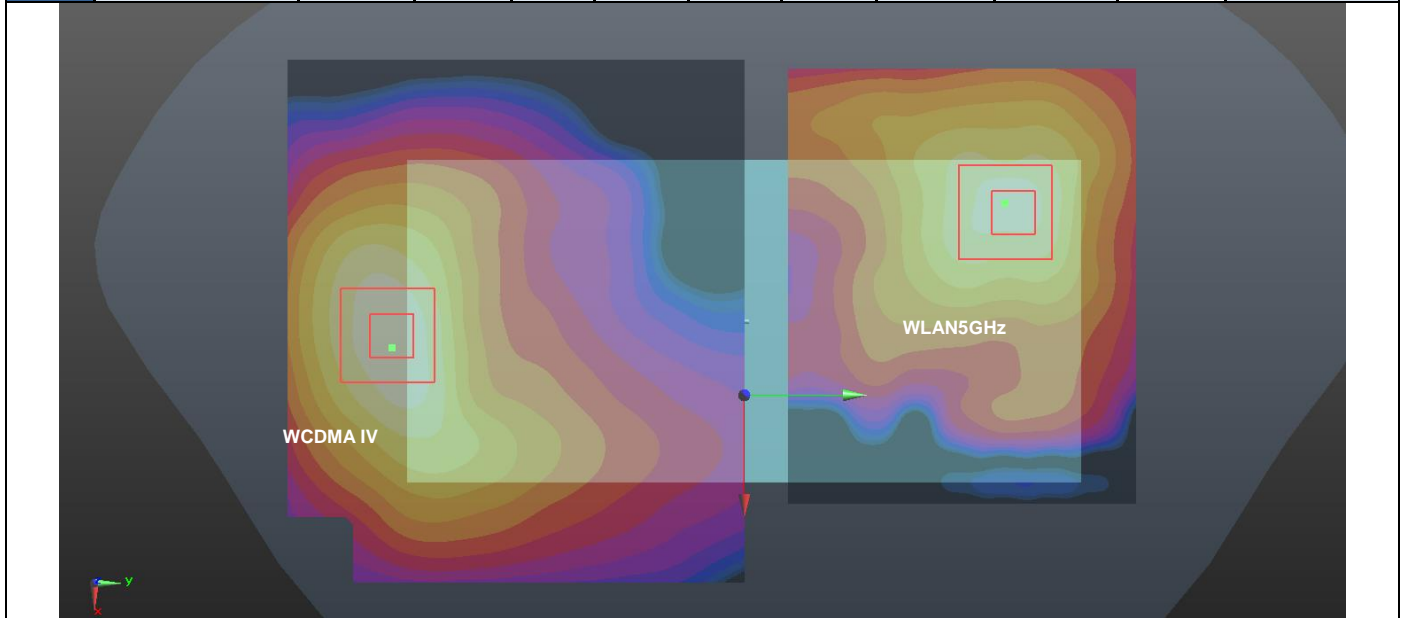
Case #07	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA IV	Front	2.368	0	1.5	-83.9	-1.66	161.1	5.45	0.08	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



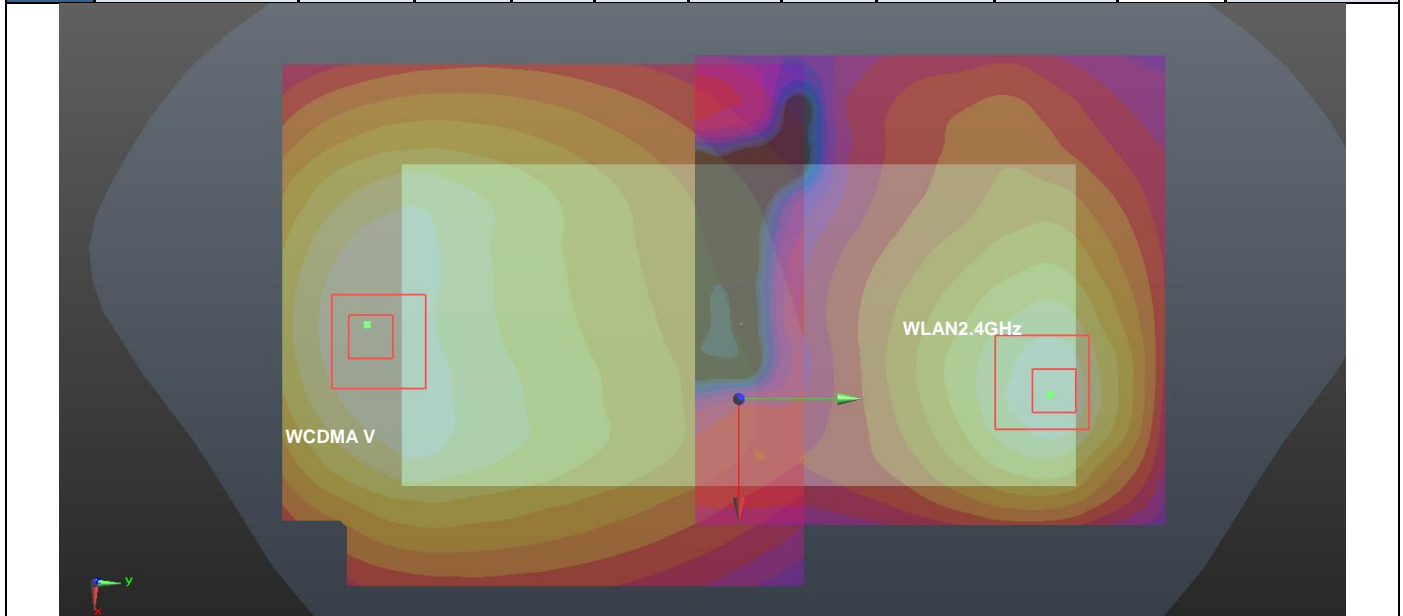
Case #08	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA IV	Back	2.503	0	1.2	-81	-1.82	142.1	5.43	0.09	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



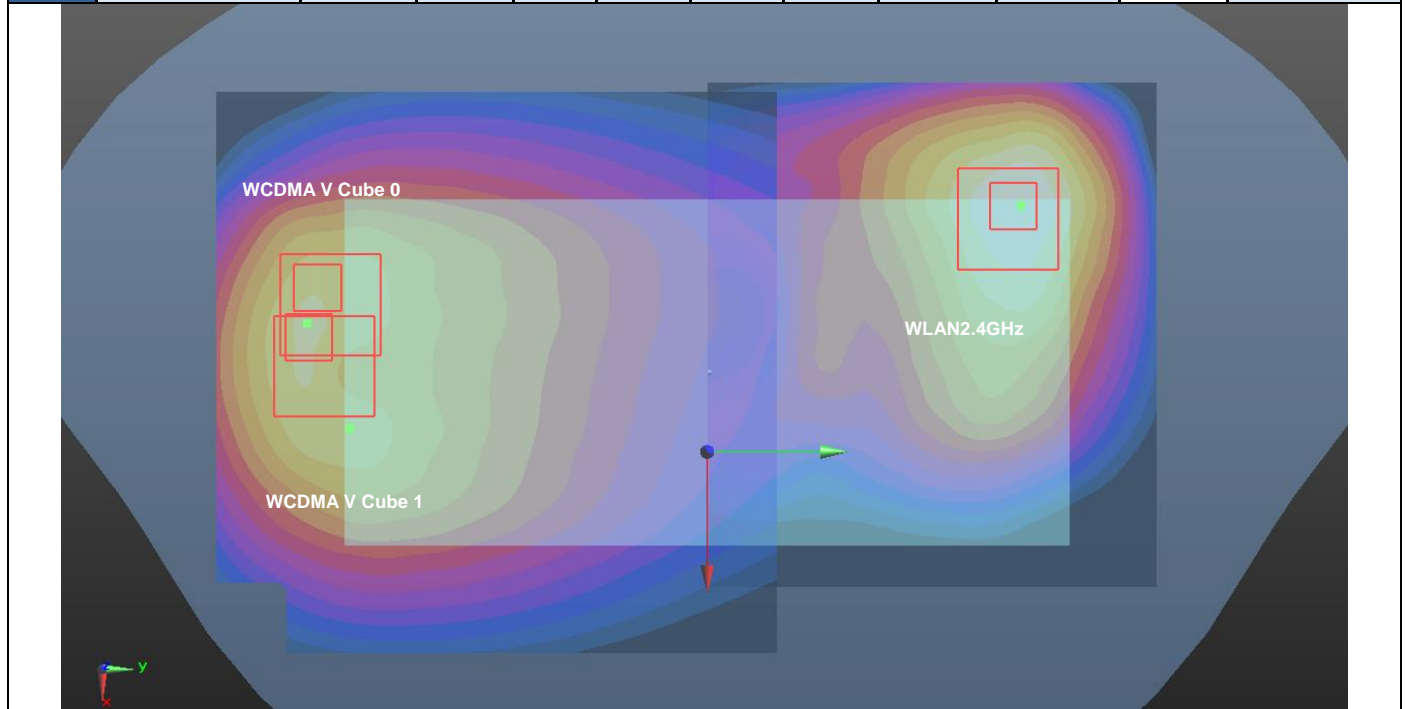
Case #09	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA IV	Back	2.503	0	1.2	-81	-1.82	151.0	5.61	0.09	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



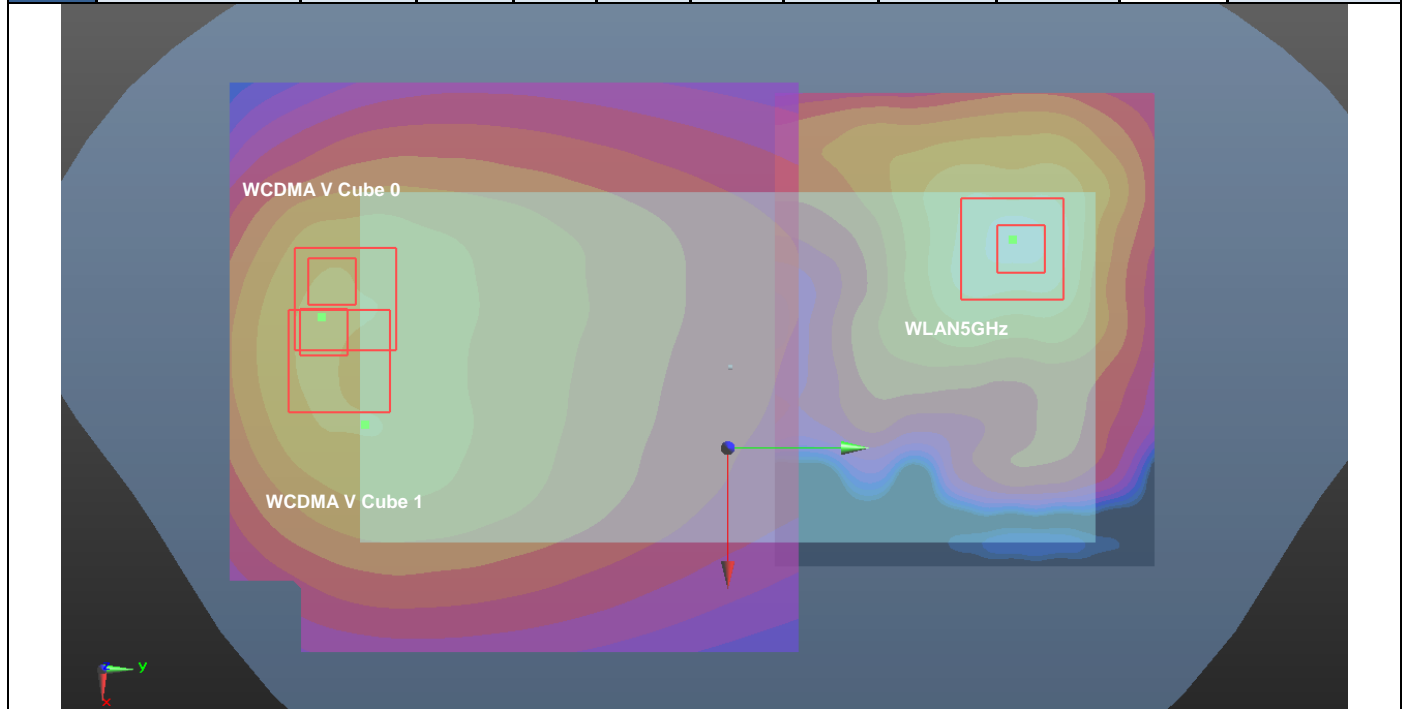
Case #10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA V	Front	2.116	0	0	-85.5	56.15	171.7	5.19	0.07	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



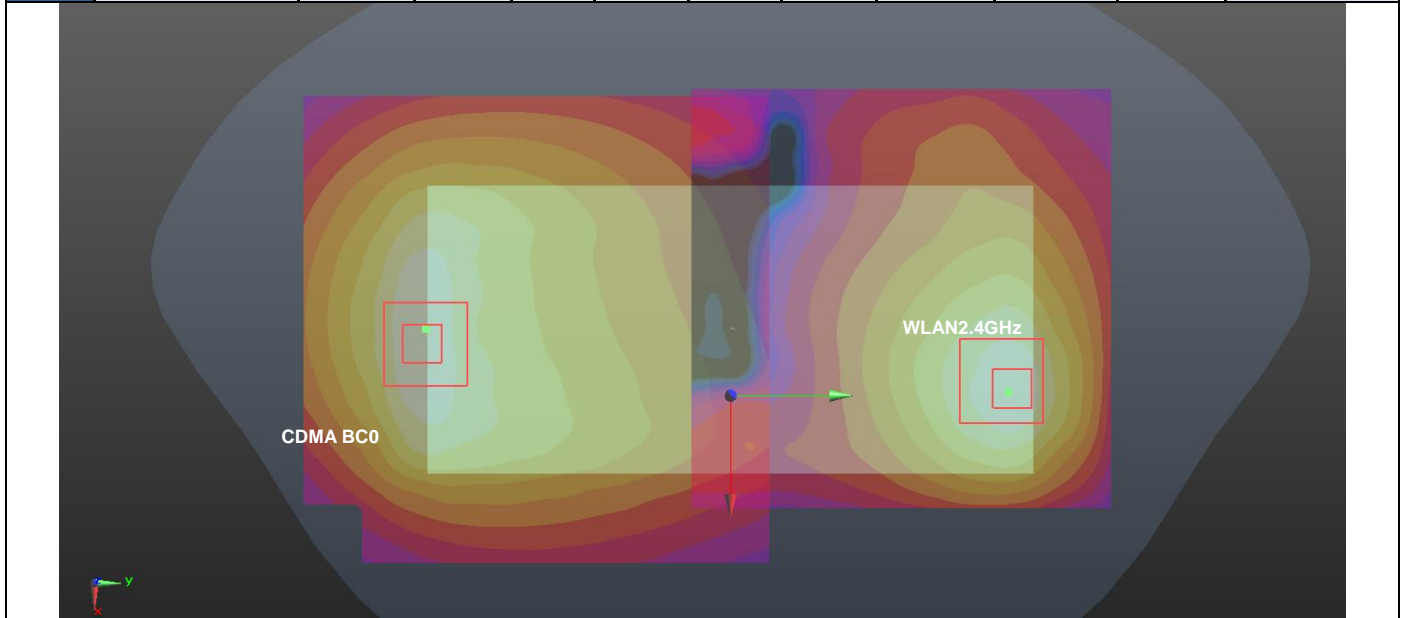
Case #11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #11	WCDMA V Cube 0	Back	1.876	0	-18.5	-83.9	-1.67	144.0	4.80	0.07	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				
	WCDMA V Cube 1	Back	1.876	0	-12	-84.5	-1.59	144.6	4.80	0.07	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



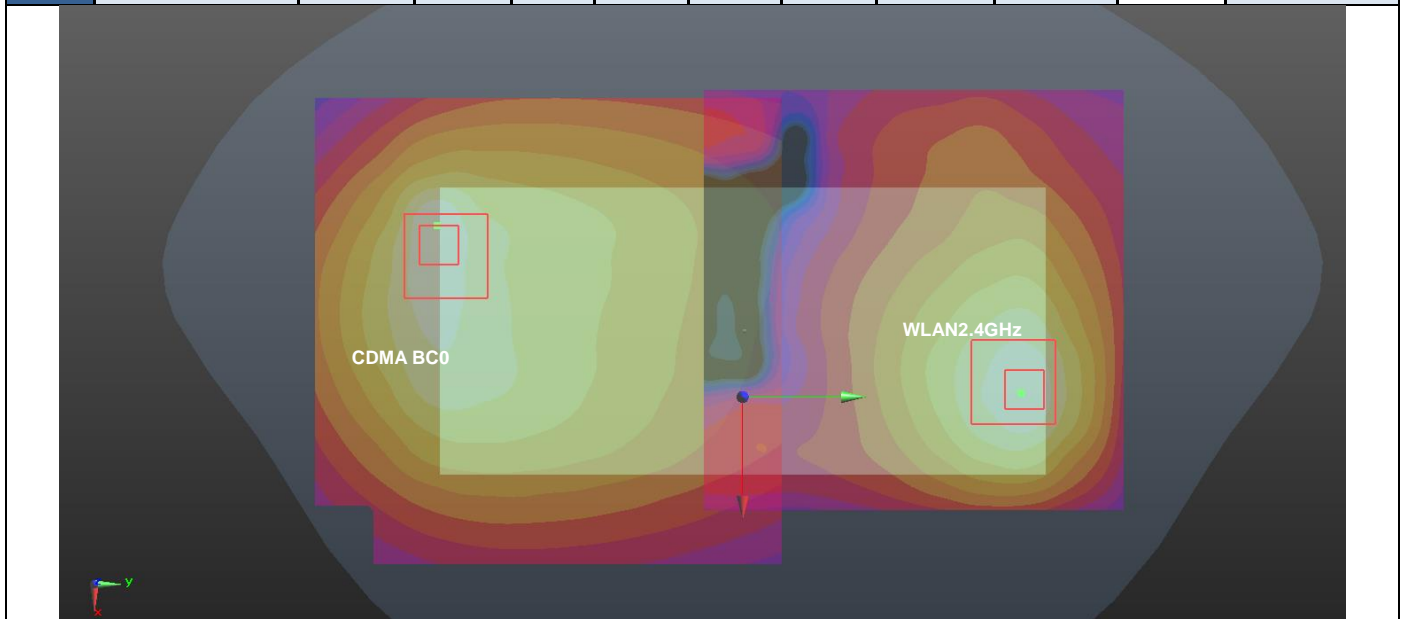
Case #12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #12	WCDMA V Cube 0	Back	1.876	0	-18.5	-83.9	-1.67	151.4	4.98	0.07	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				
	WCDMA V Cube 1	Back	1.876	0	-12	-84.5	-1.59	152.5	4.98	0.07	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



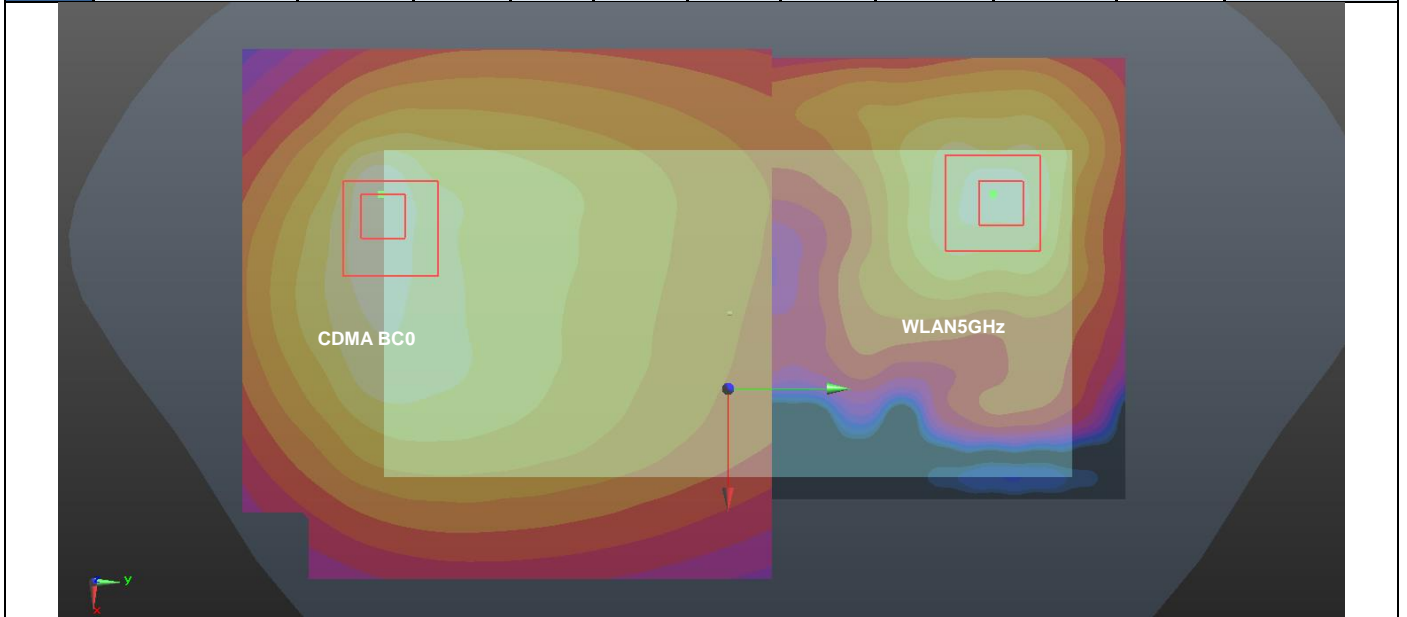
Case #13	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC0	Front	2.706	0	16	-78.5	-2.88	154.4	5.78	0.09	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



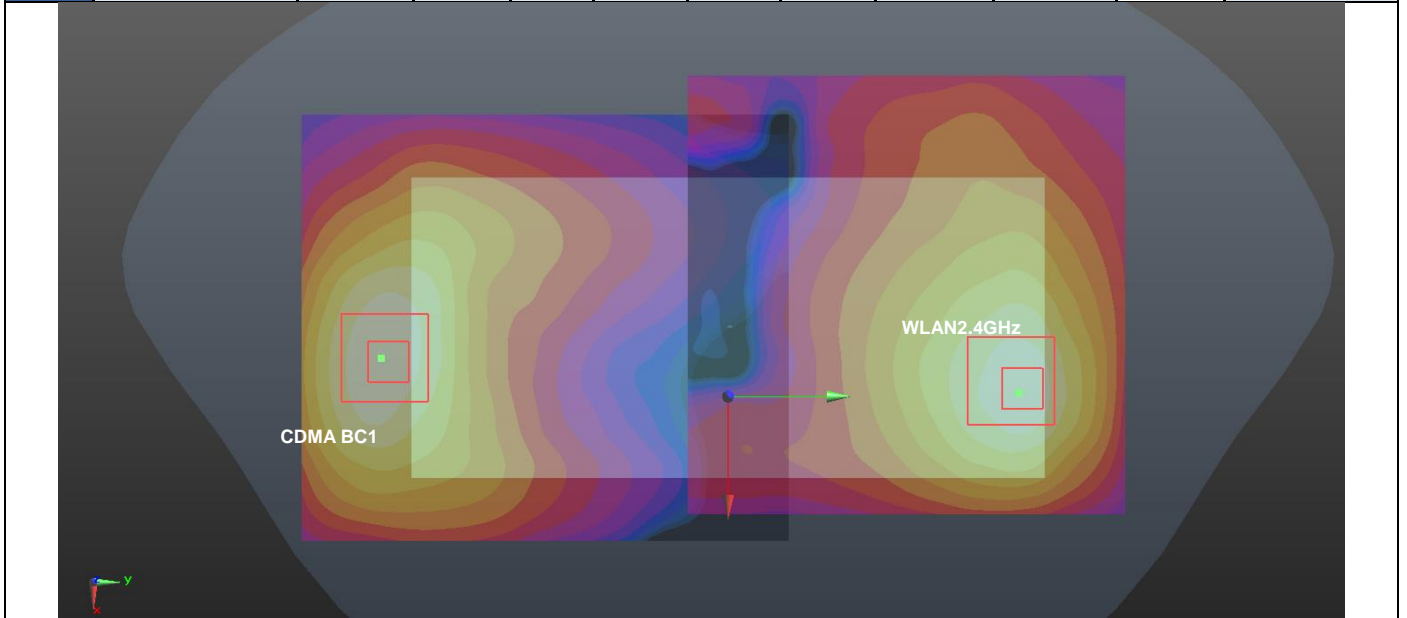
Case #14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC0	Back	2.283	0	25.4	-78.5	-2.85	144.6	5.21	0.08	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



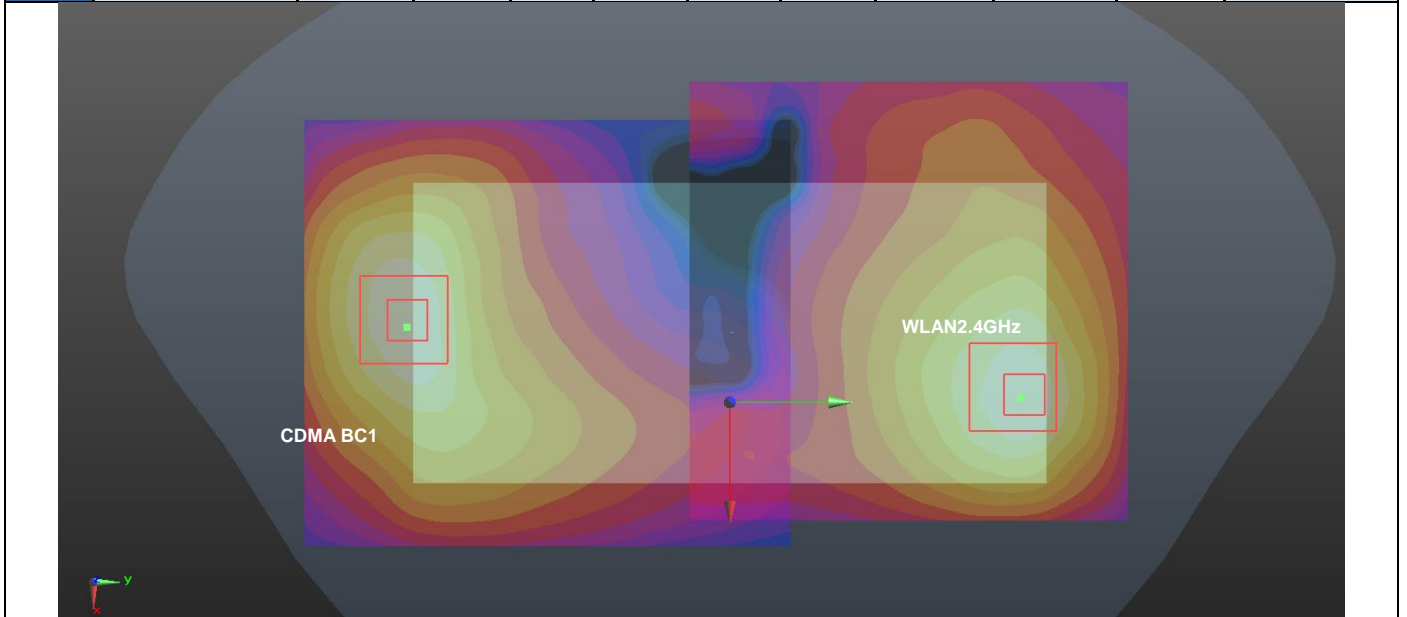
Case #15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC0	Back	2.283	0	25.4	-78.5	-2.85	155.1	5.39	0.08	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



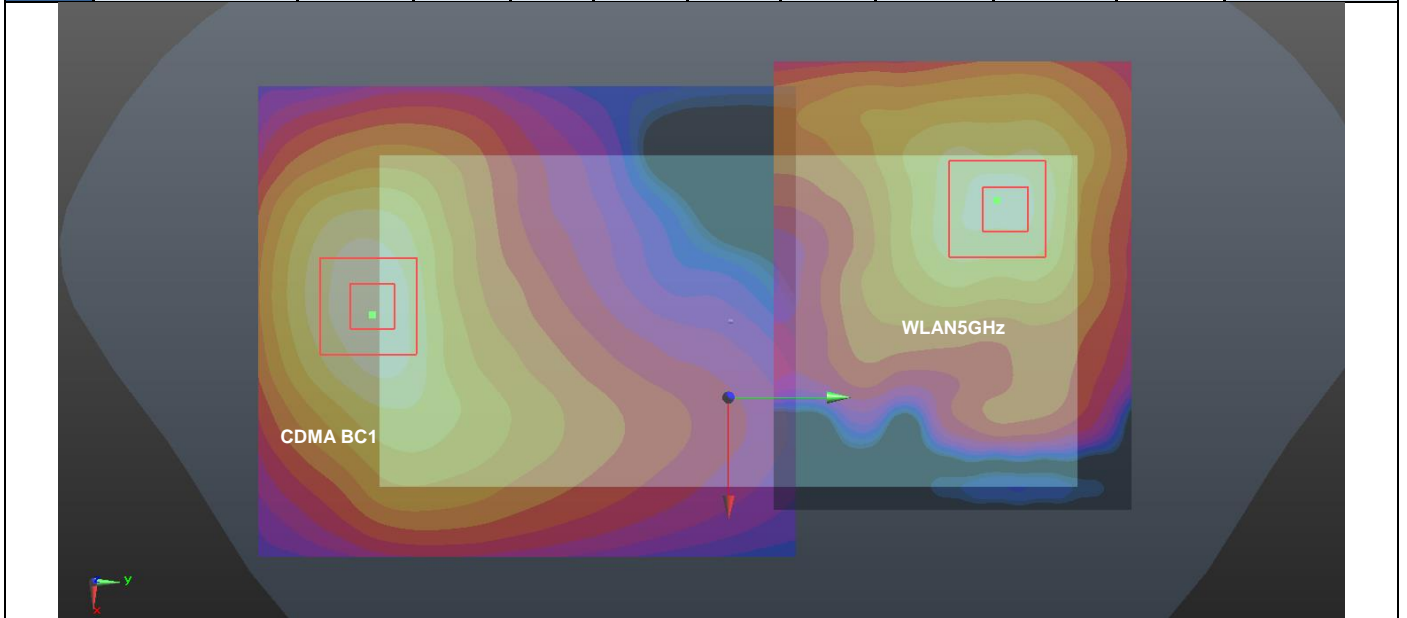
Case #16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC1	Front	3.051	0	9.1	-83.9	-1.67	160.2	6.13	0.09	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



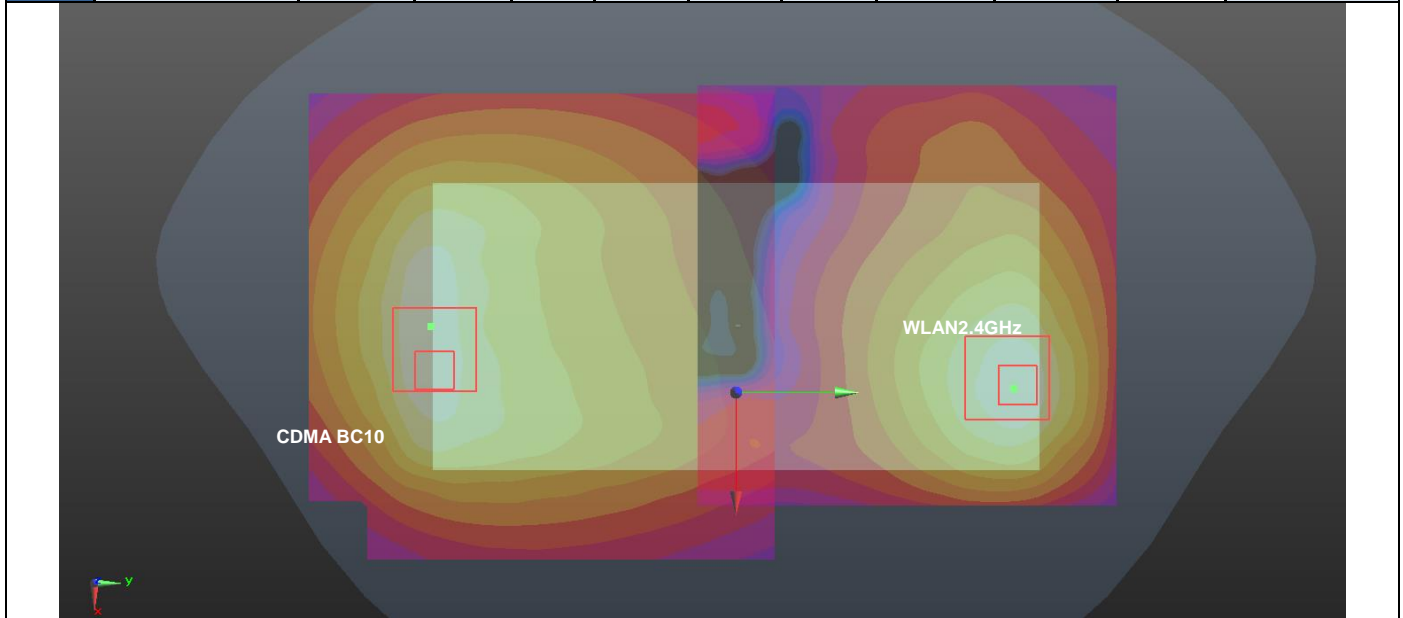
Case #17	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC1	Back	2.949	0	-6.3	-79.5	-1.87	139.9	5.87	0.10	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



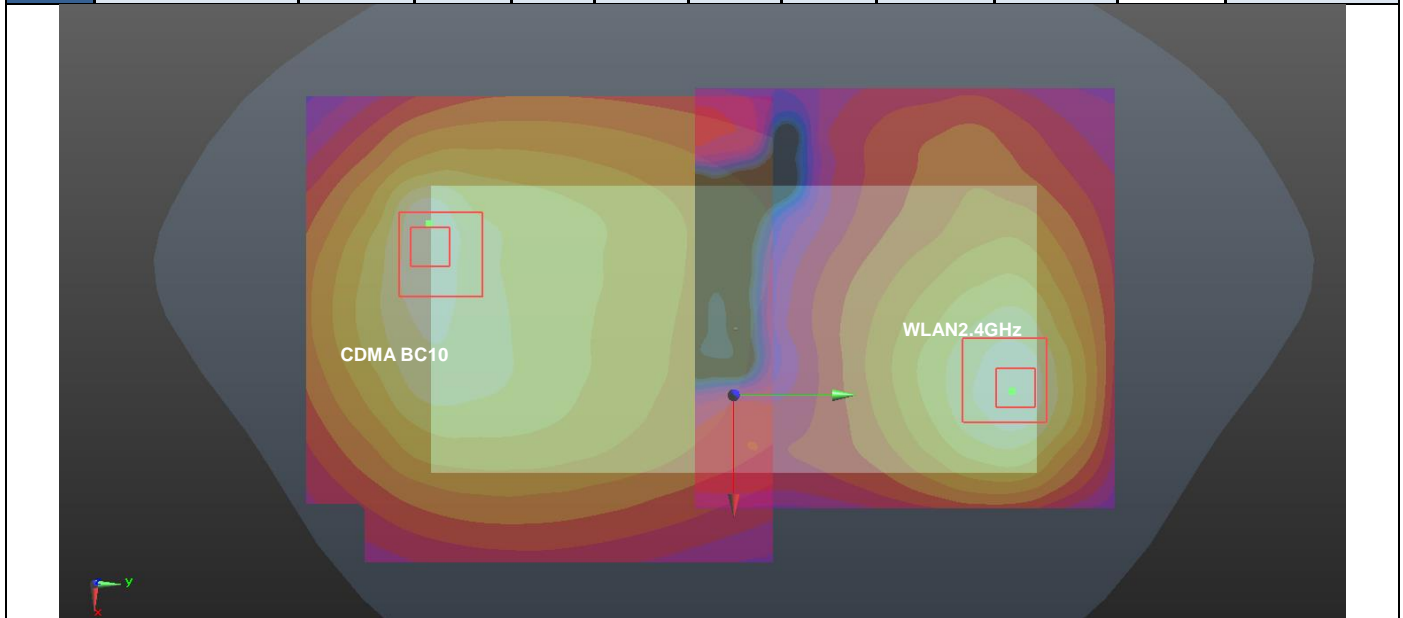
Case #18	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC1	Back	2.949	0	-6.3	-79.5	-1.87	148.3	6.06	0.10	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



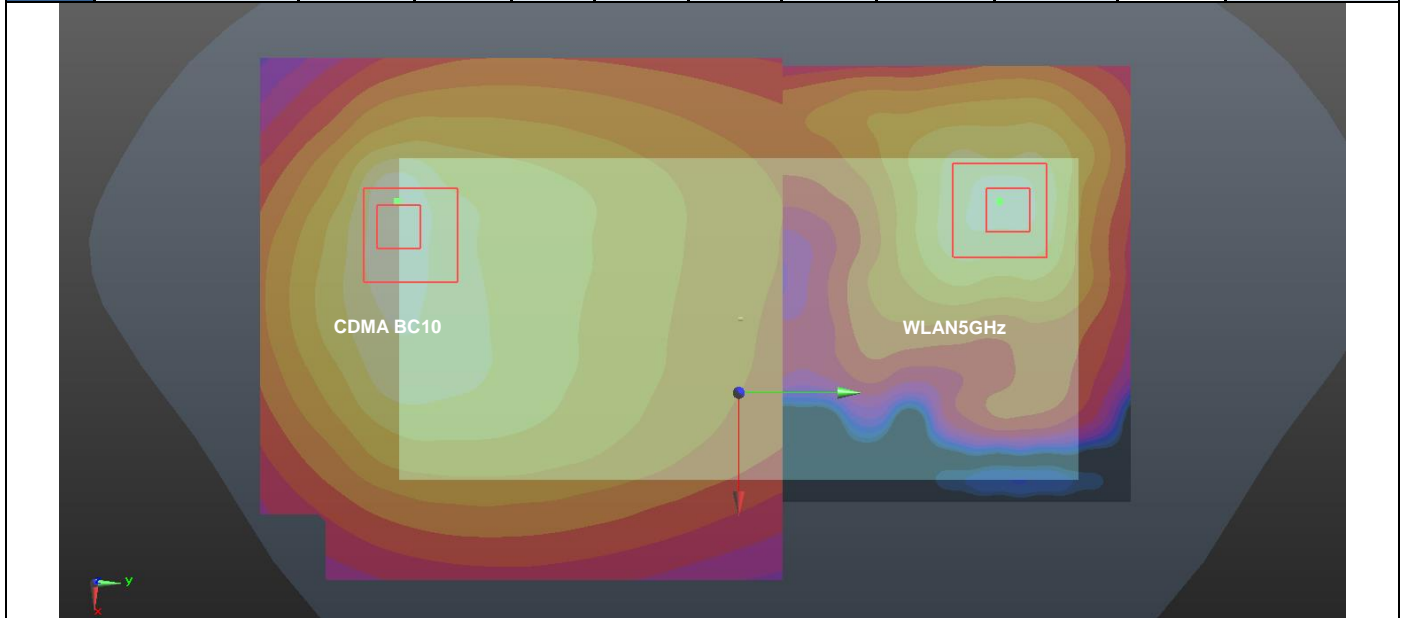
Case #19	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC10	Front	2.763	0	16	-78.5	-2.88	154.4	5.84	0.09	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



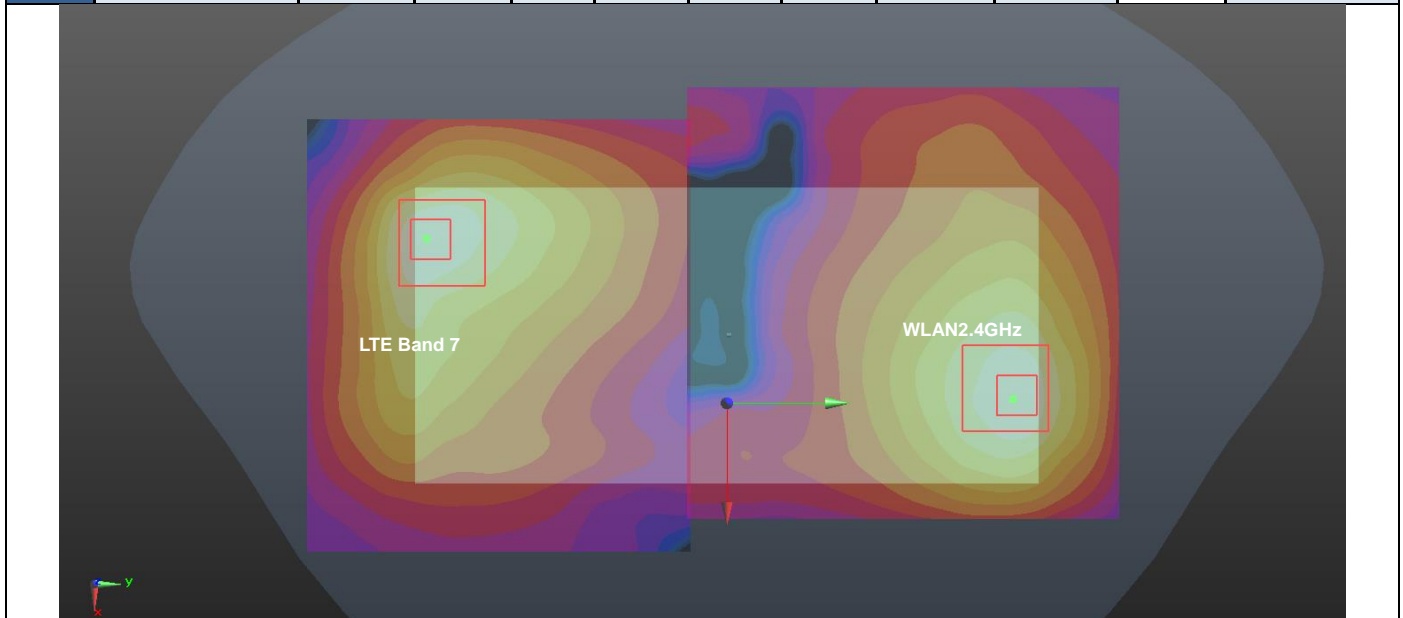
Case #20	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC10	Back	2.283	0	-19	-78.5	-3.36	138.6	5.21	0.09	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



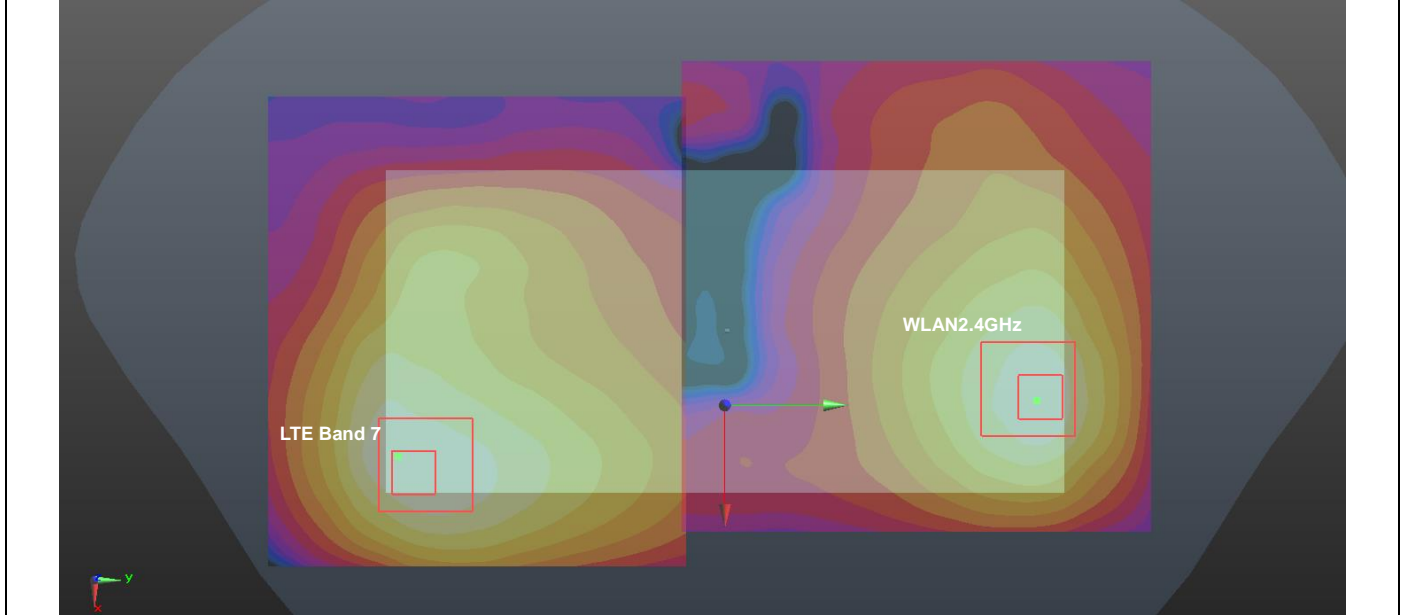
Case #21	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC10	Back	2.283	0	-19	-78.5	-3.36	146.0	5.39	0.09	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



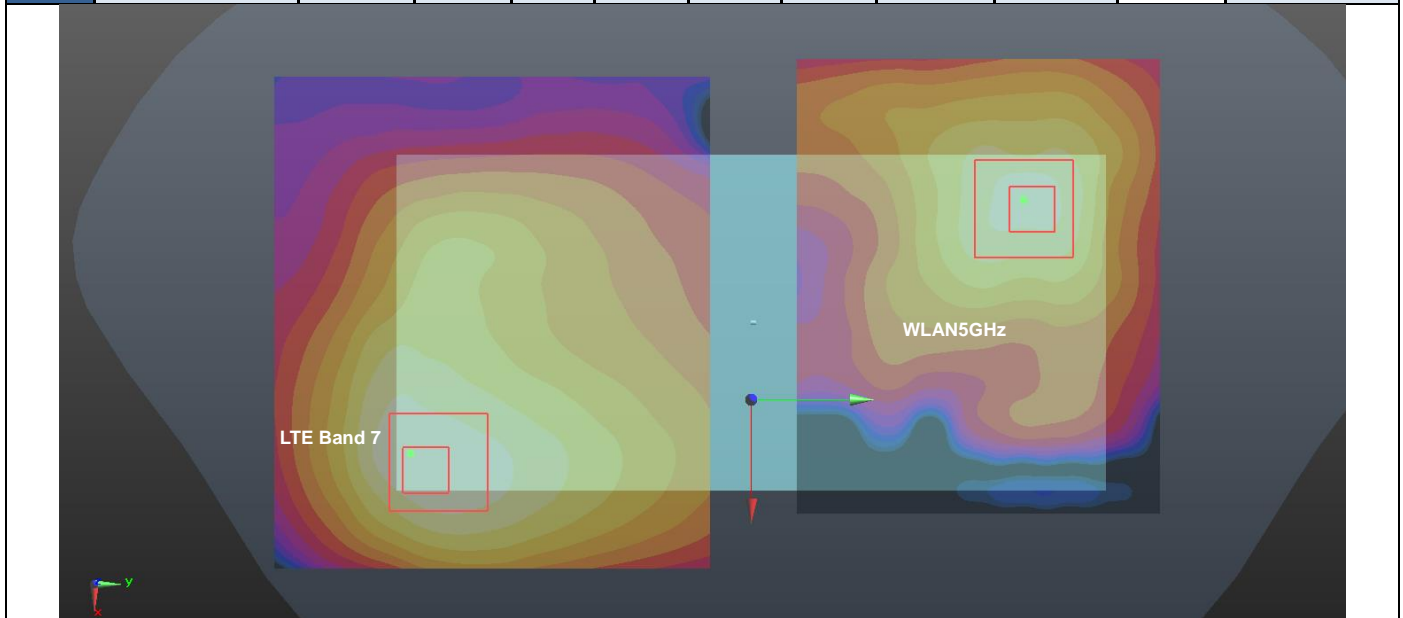
Case #22	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7	Front	2.856	0	-25	-76	-1.74	159.4	5.93	0.09	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



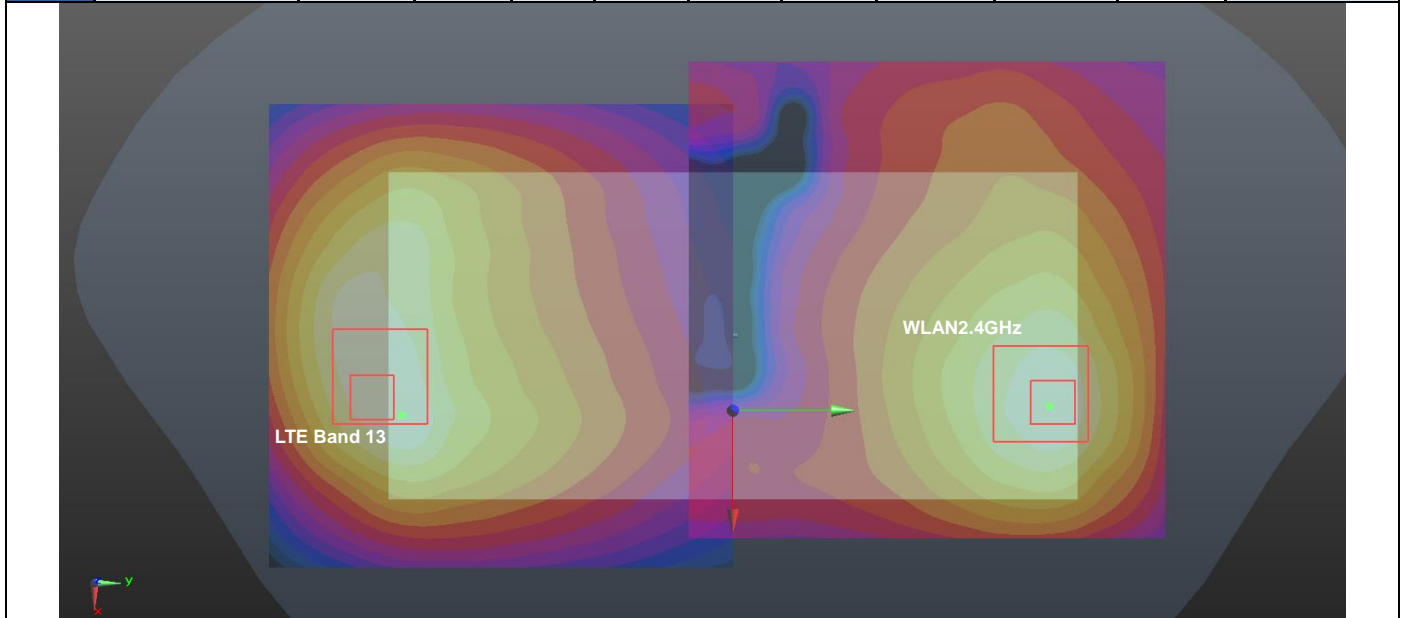
Case #23	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7	Back	2.906	0	32.8	-75	-1.42	143.5	5.83	0.10	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



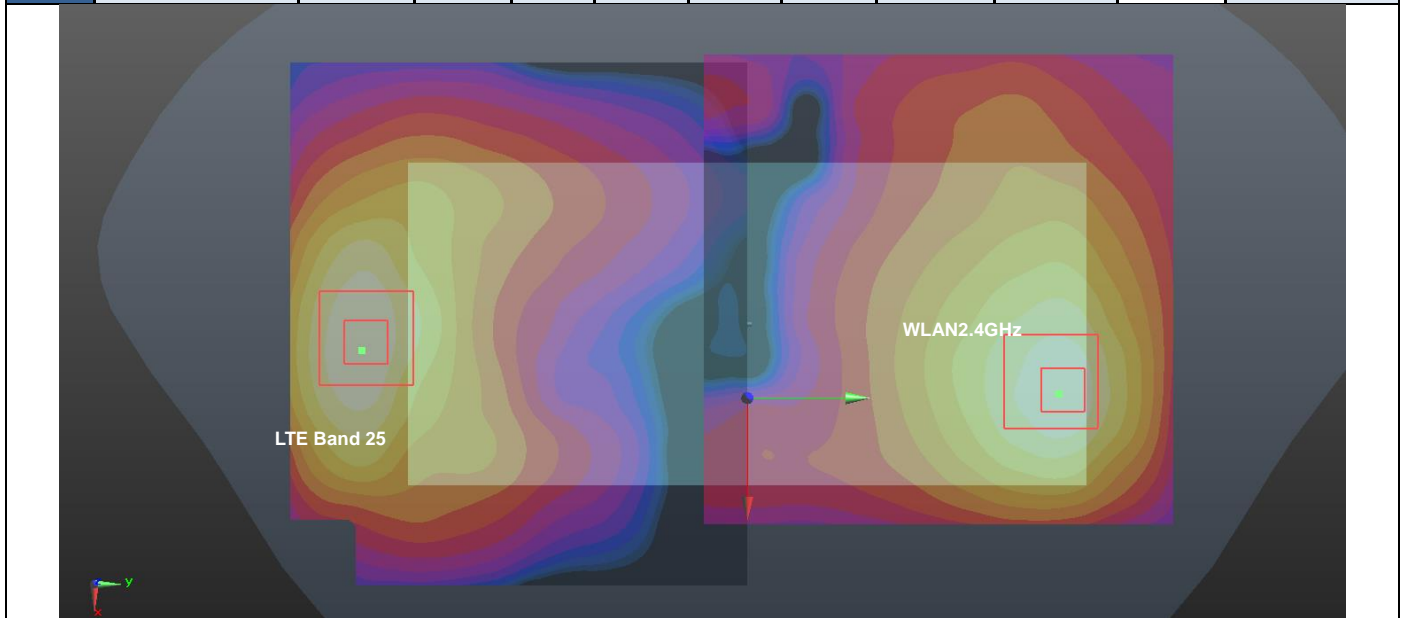
Case #24	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7	Back	2.906	0	32.8	-75	-1.42	154.5	6.01	0.10	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



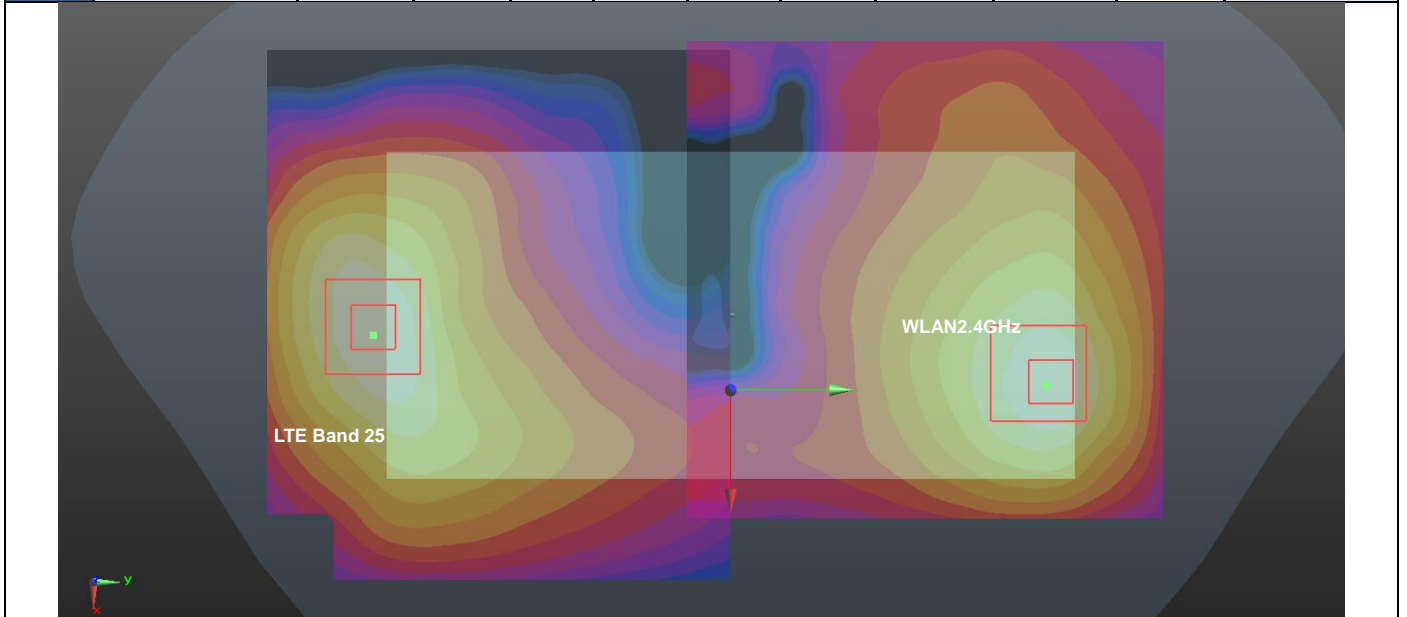
Case #25	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 13	Front	1.694	0	18	-81.4	-1.79	157.2	4.77	0.07	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



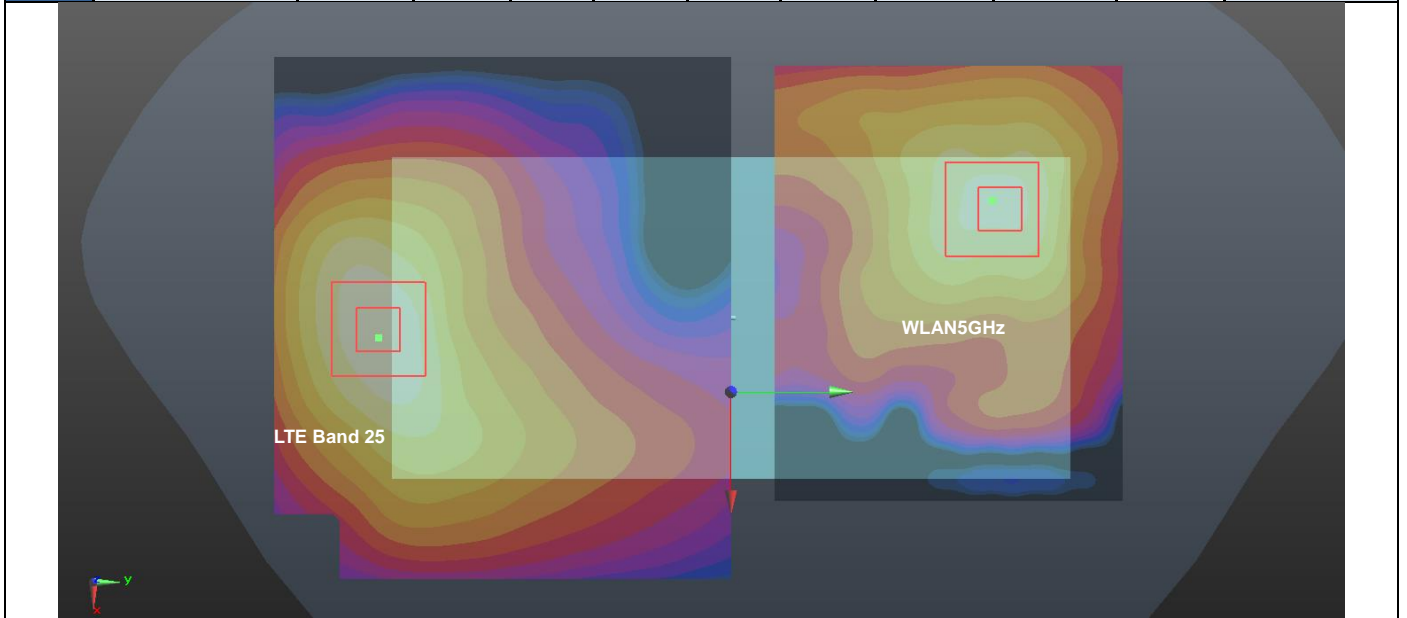
Case #26	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 25	Front	3.16	0	4.4	-86.9	-1.66	163.7	6.24	0.10	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



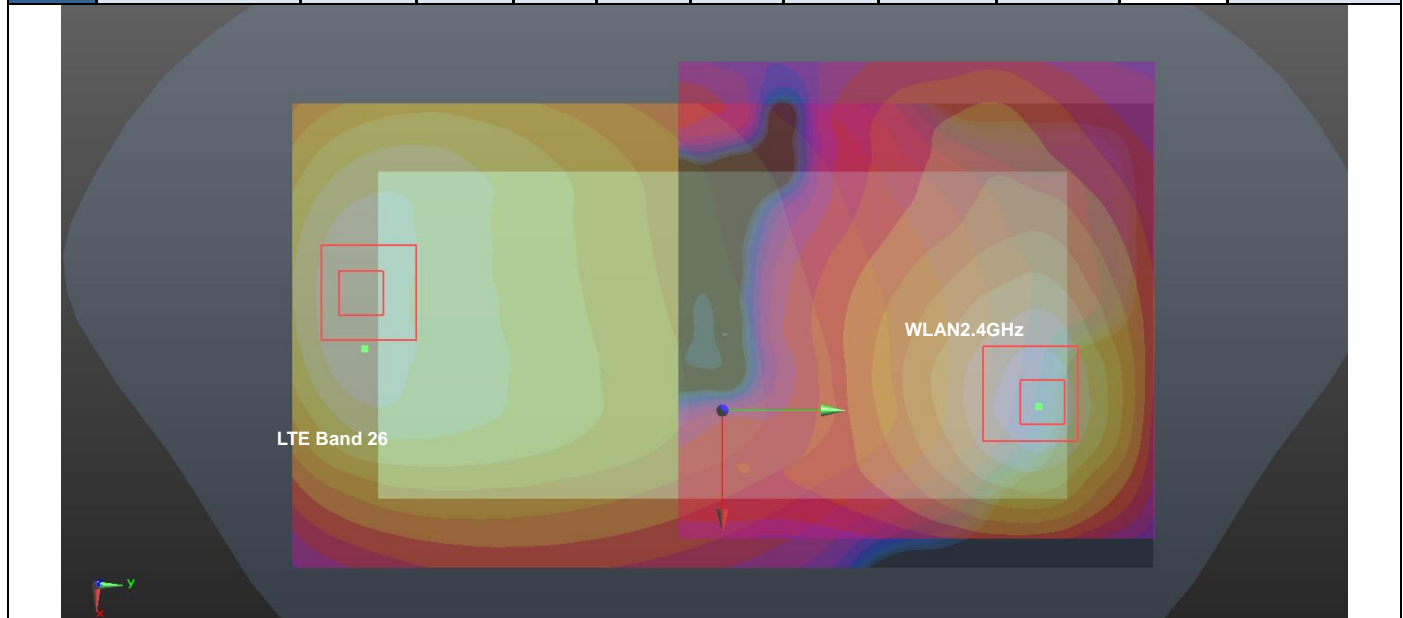
Case #27	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 25	Back	3.012	0	-7.7	-83.5	1.91	143.7	5.94	0.10	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



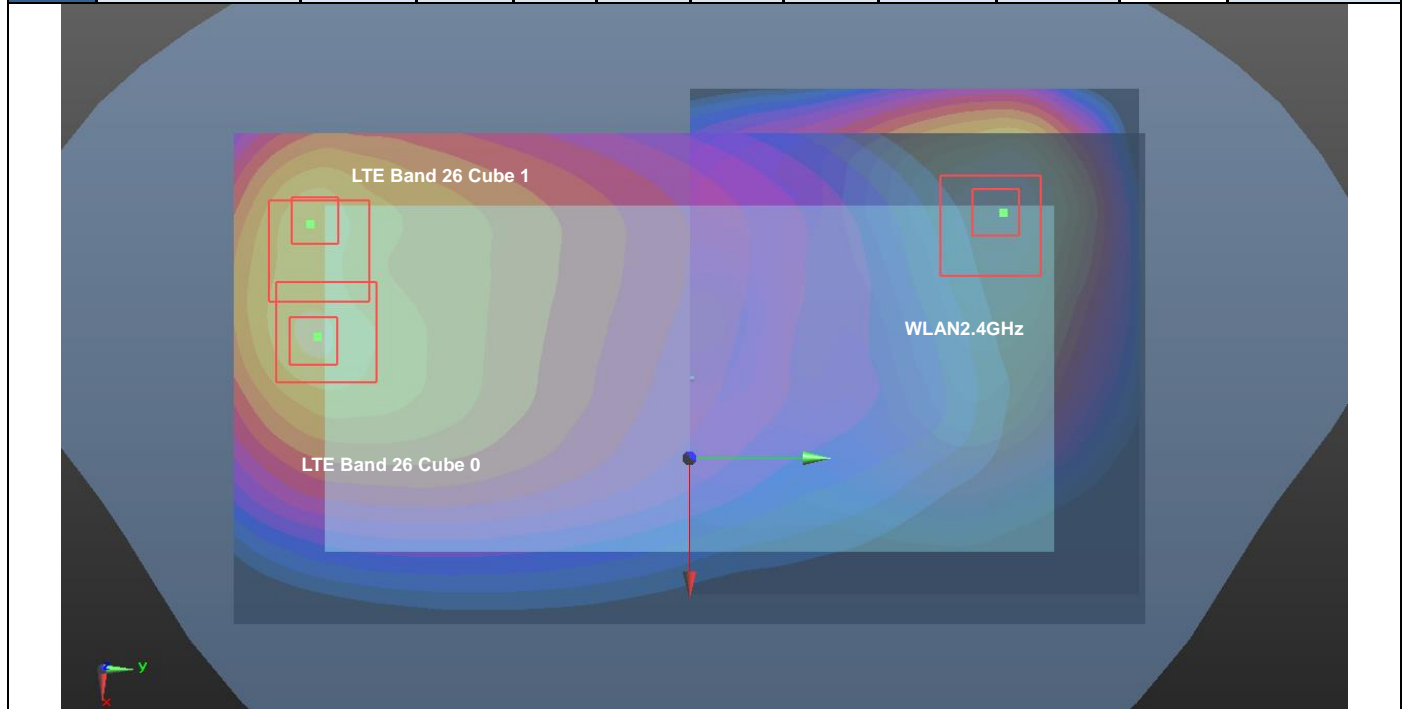
Case #28	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 25	Back	3.012	0	-7.7	-83.5	1.91	152.0	6.12	0.10	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



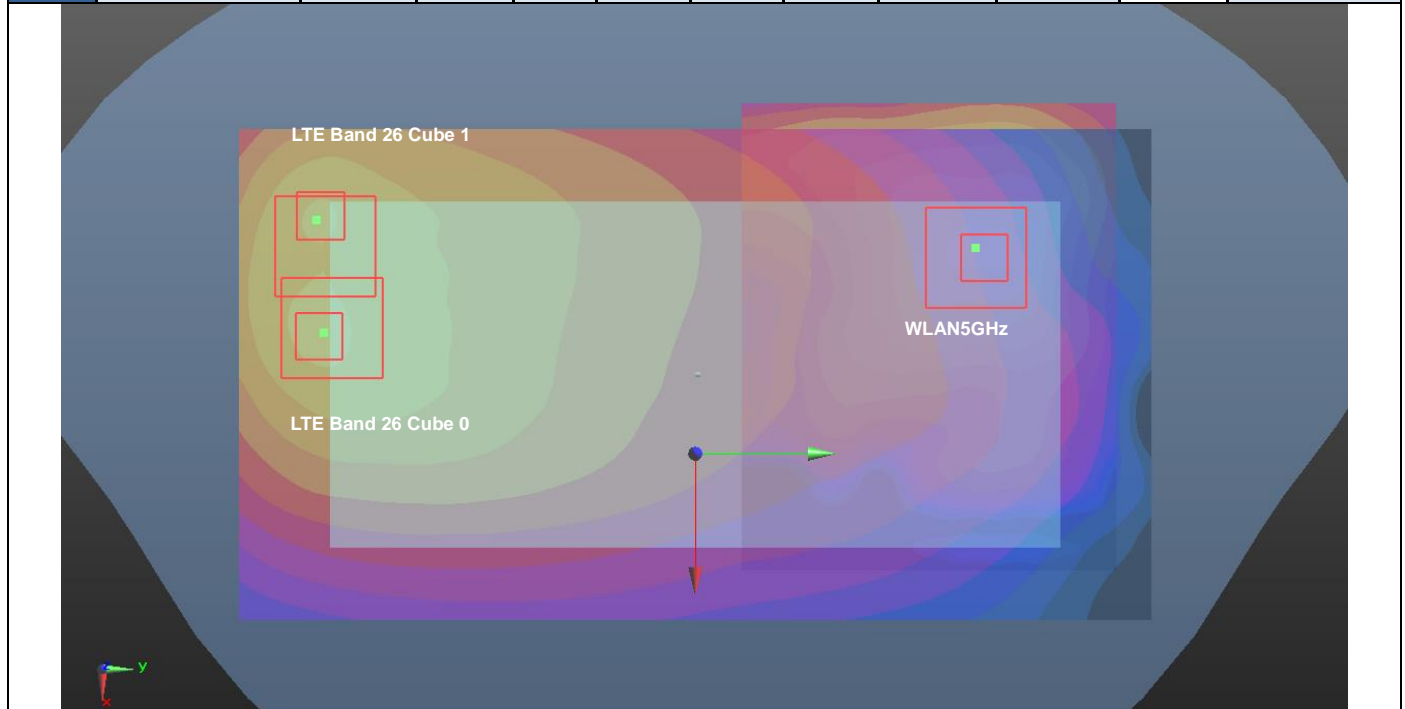
Case #29	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 26	Front	1.92	0	3	-81	-1.92	158.0	5.00	0.07	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



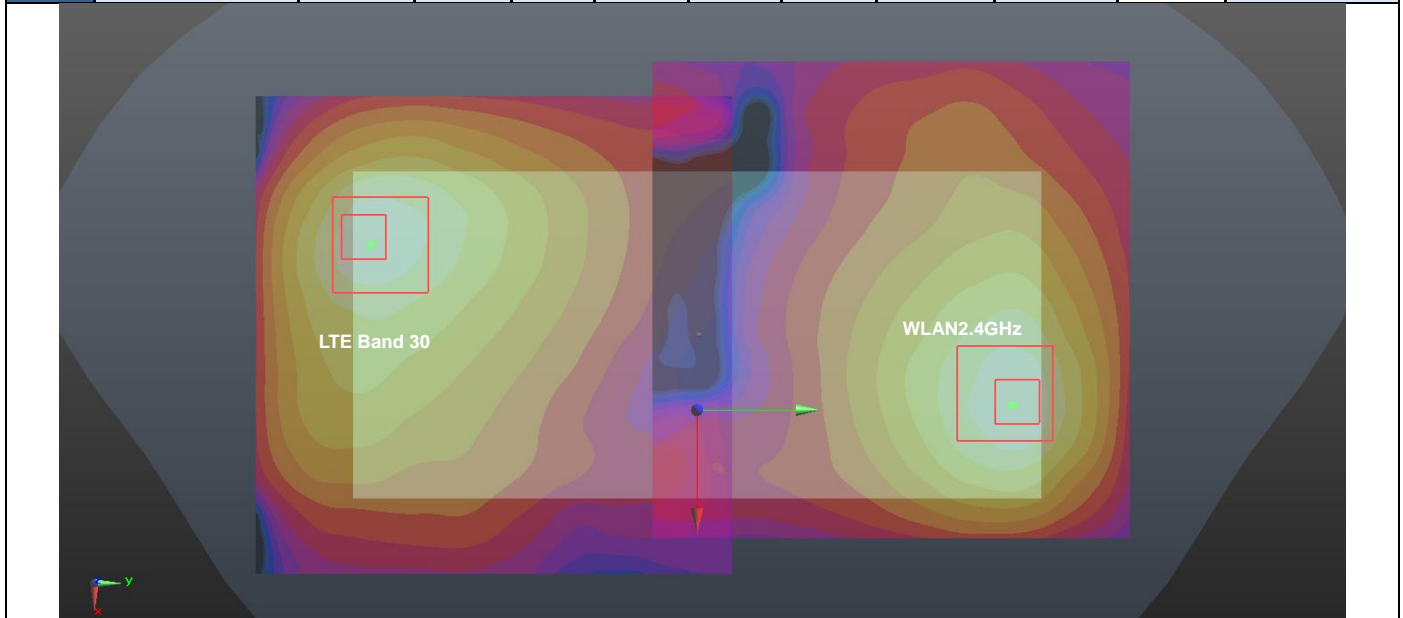
Case #30	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #30	LTE Band 26 Cube 0	Back	1.522	0	-9	-82.7	-1.96	142.9	4.45	0.07	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				
	LTE Band 26 Cube 1	Back	1.522	0	-36.2	-79.4	-2.06	140.9	4.45	0.07	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



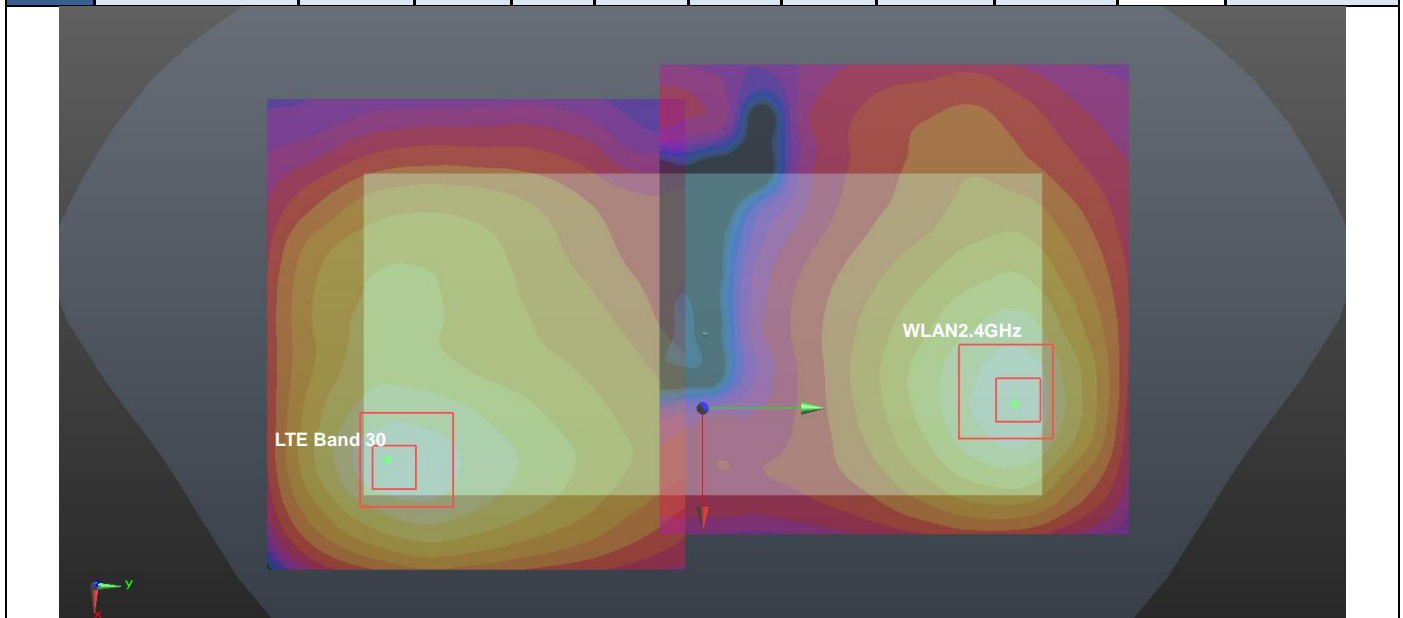
Case #31	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #31	LTE Band 26 Cube 0	Back	1.522	0	-9	-82.7	-1.96	151.1	4.63	0.07	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				
	LTE Band 26 Cube 1	Back	1.522	0	-36.2	-79.4	-2.06	146.9	4.63	0.07	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



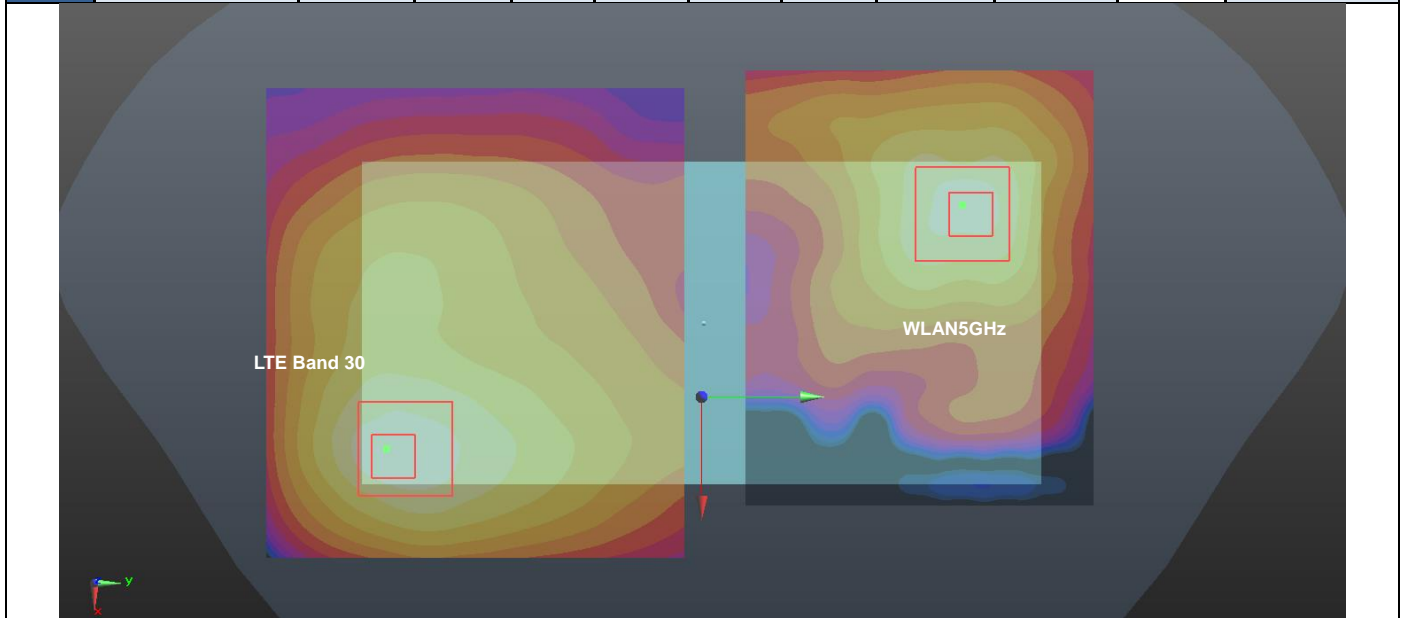
Case #32	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 30	Front	3.095	0	-23.4	-77.6	-1.85	160.4	6.17	0.10	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



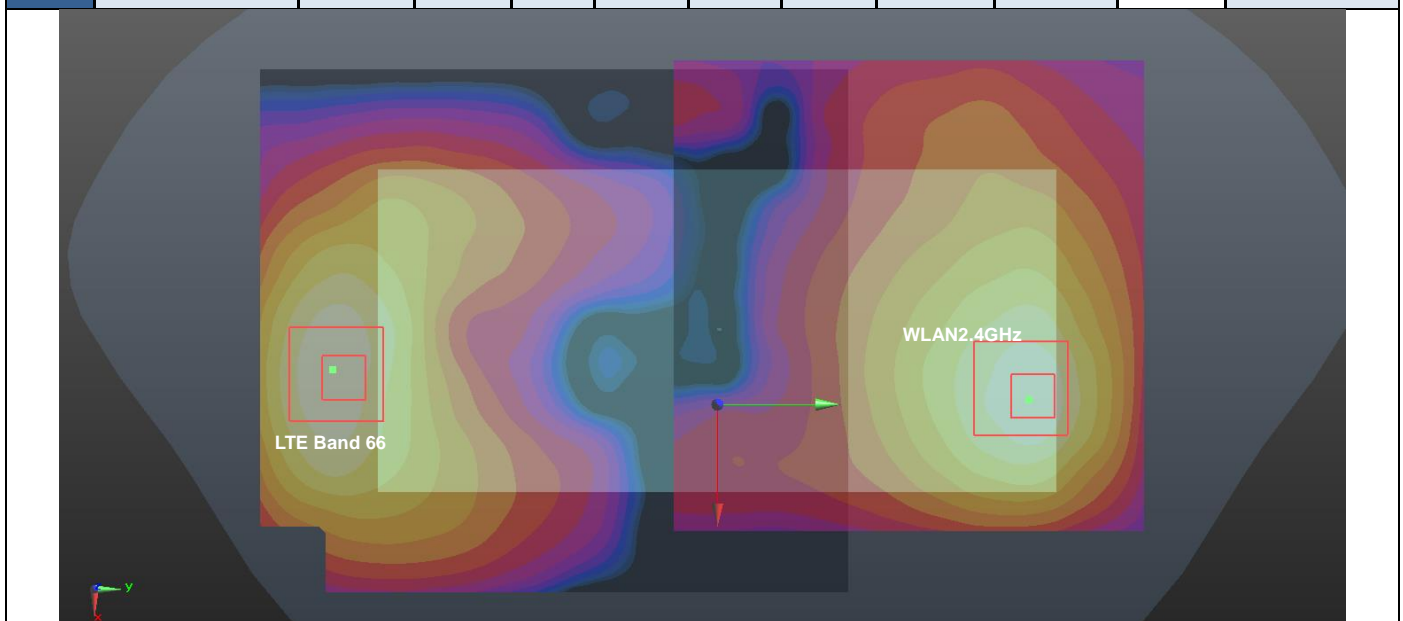
Case #33	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 30	Back	2.865	0	30.8	-74.4	-1.5	142.3	5.79	0.10	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



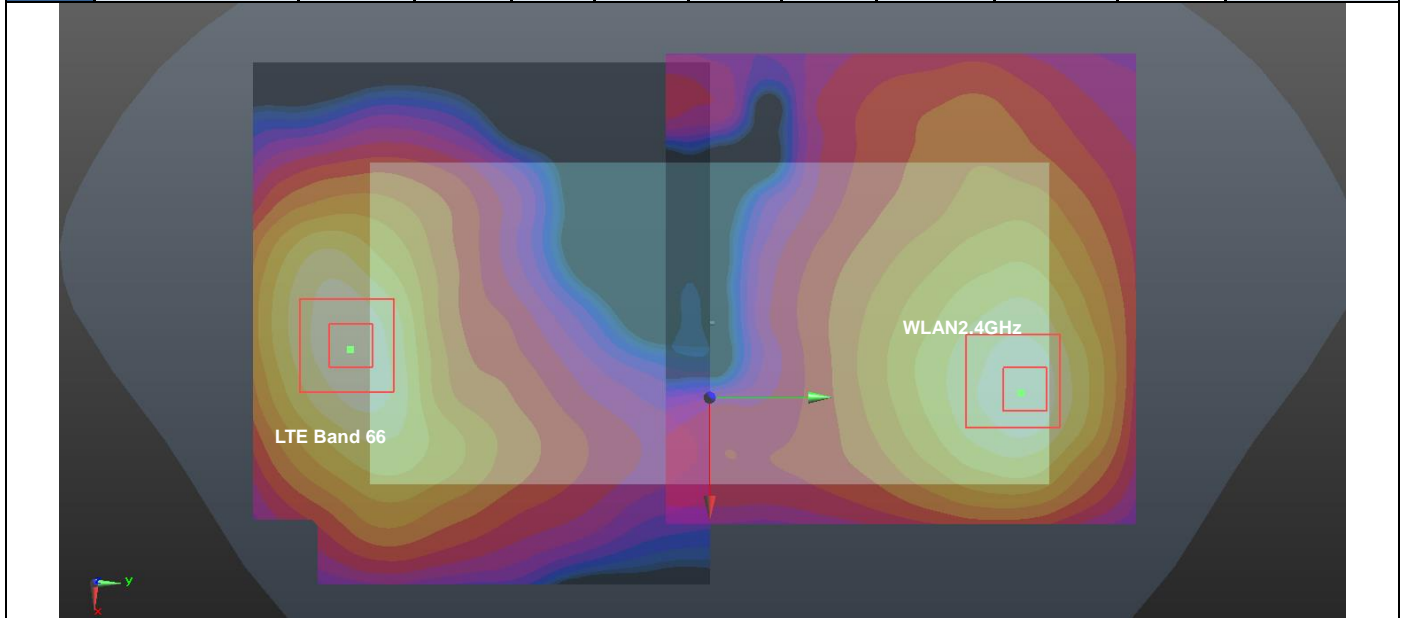
Case #34	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 30	Back	2.865	0	30.8	-74.4	-1.5	153.2	5.97	0.10	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



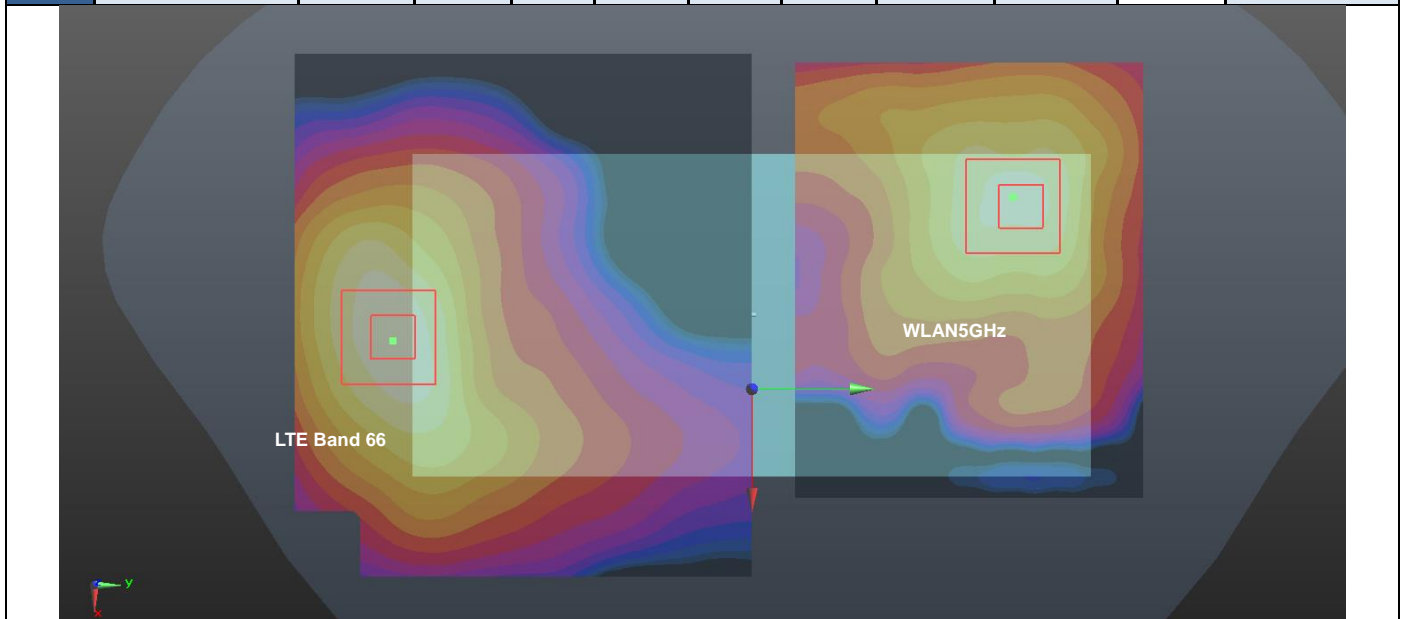
Case #35	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66	Front	2.53	0	12.2	-85.3	-1.42	161.4	5.61	0.08	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



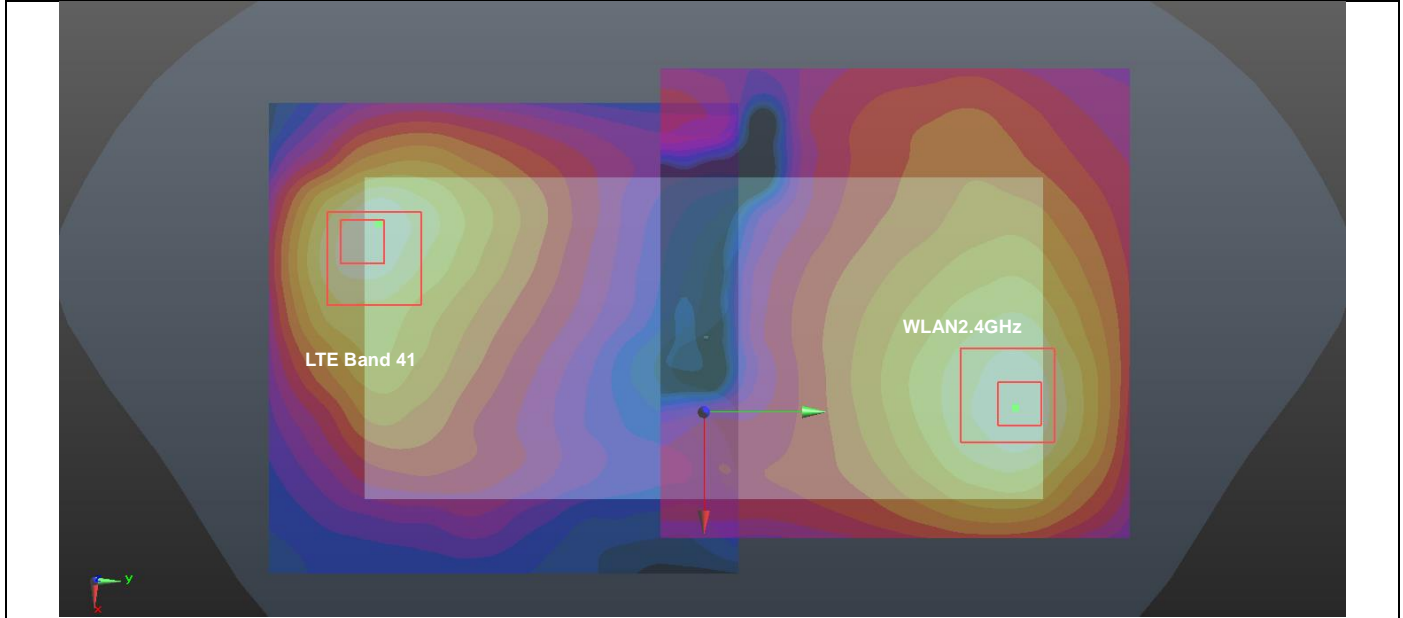
Case #36	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66	Back	2.426	0	1.2	-82.5	-1.79	143.6	5.35	0.09	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



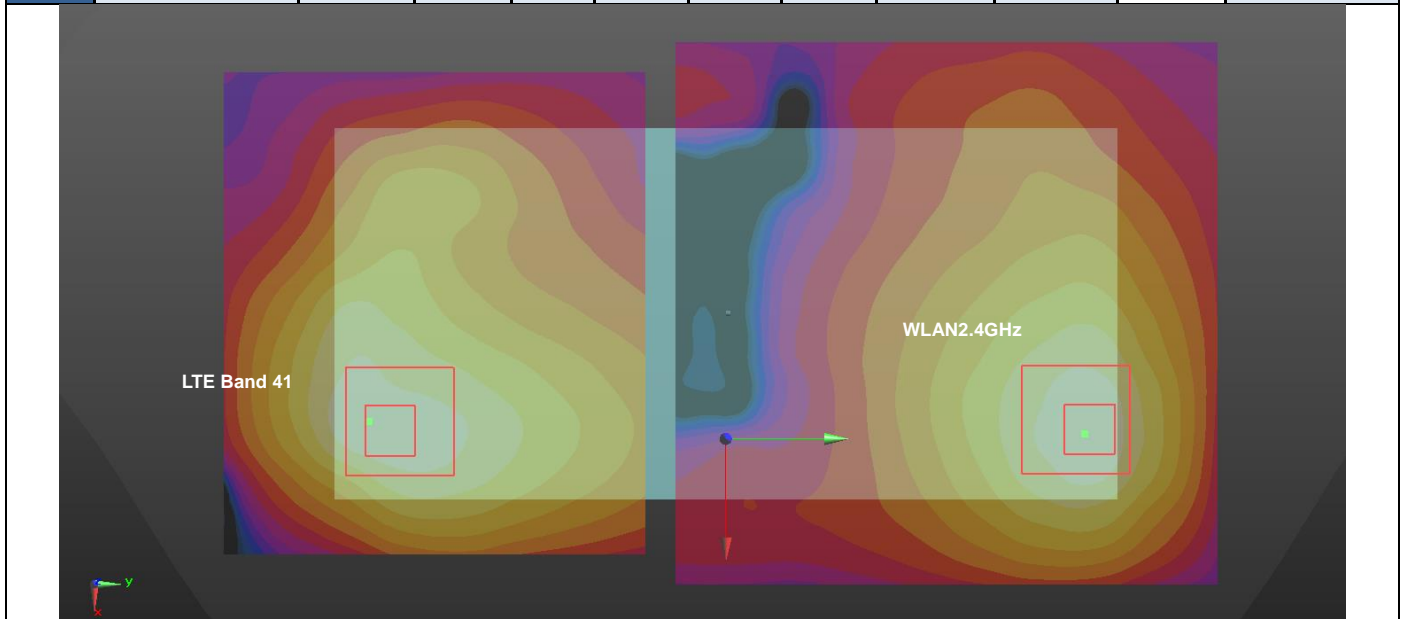
Case #37	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66	Back	2.426	0	1.2	-82.5	-1.79	152.5	5.53	0.09	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



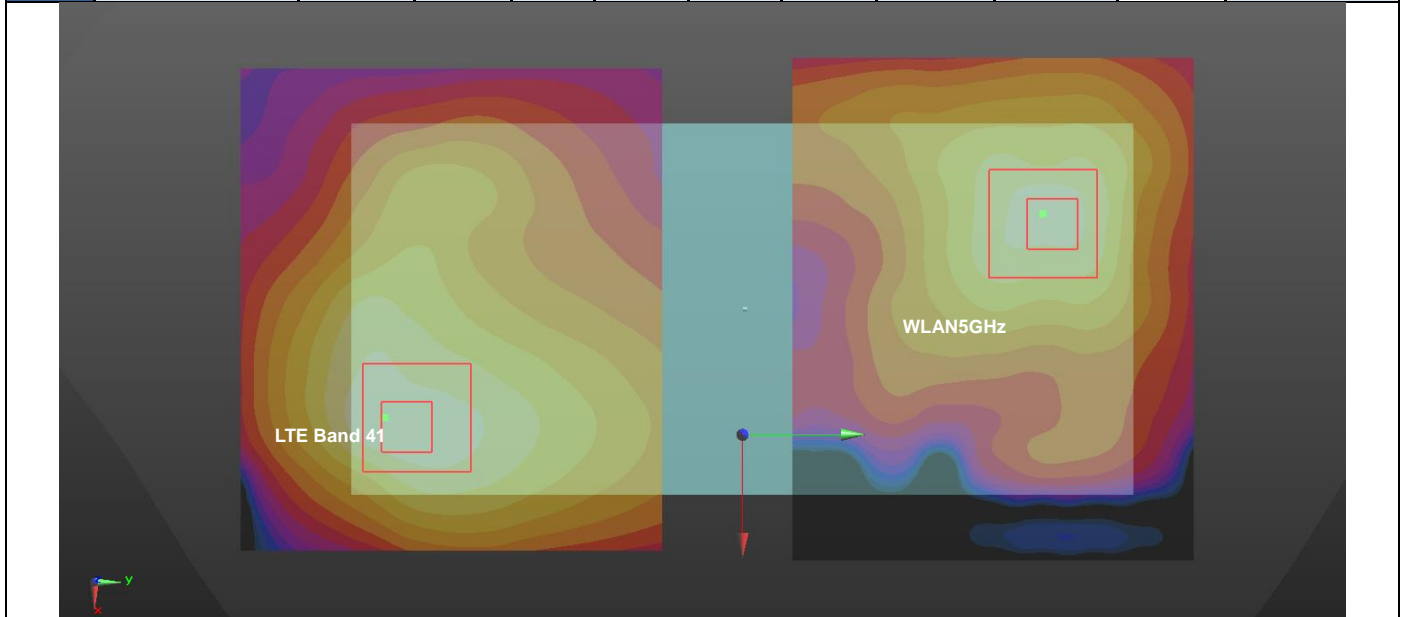
Case #38	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Front	2.366	0	-24.4	-79.8	-1.52	162.8	5.44	0.08	Not required
	WLAN2.4GHz		3.078	0	24	75.6	1.8				



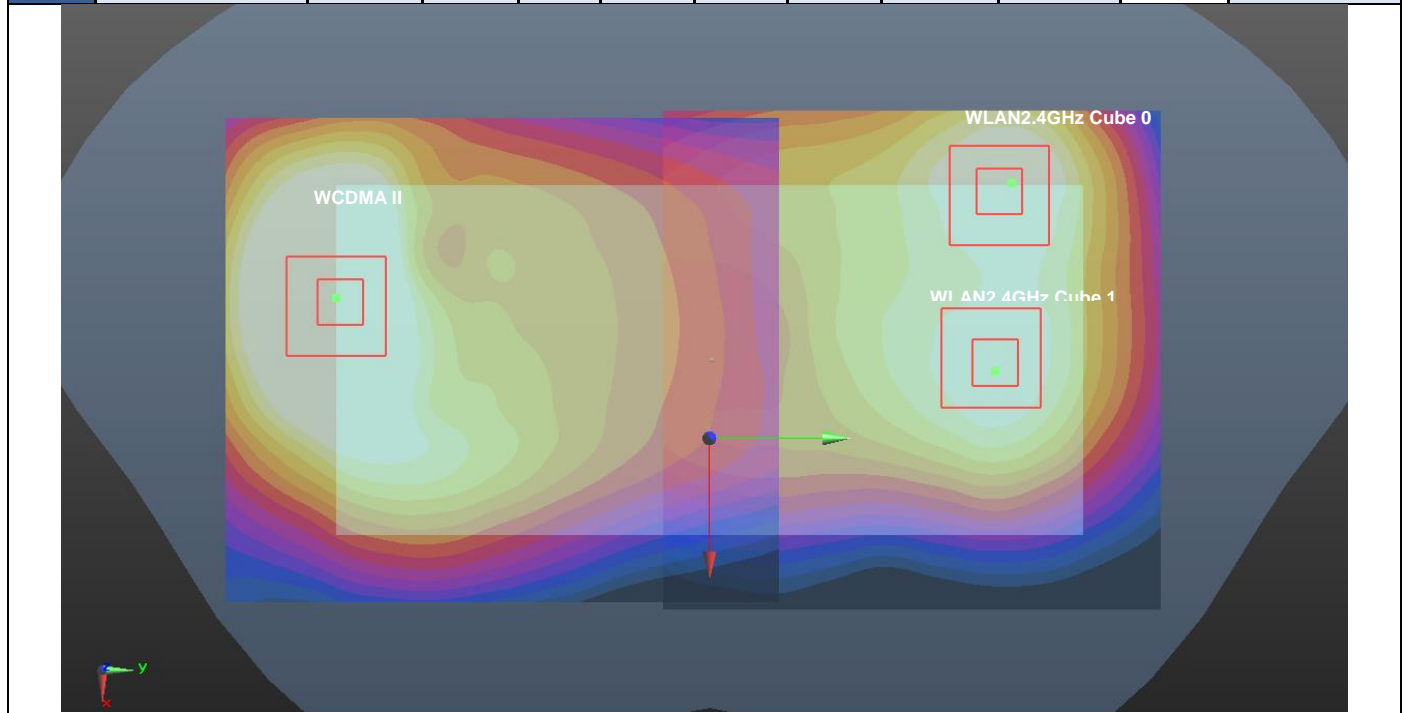
Case #39	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Back	2.989	0	24.2	-71	2.03	137.0	5.91	0.10	Not required
	WLAN2.4GHz		2.924	0	-15.8	60	1.64				



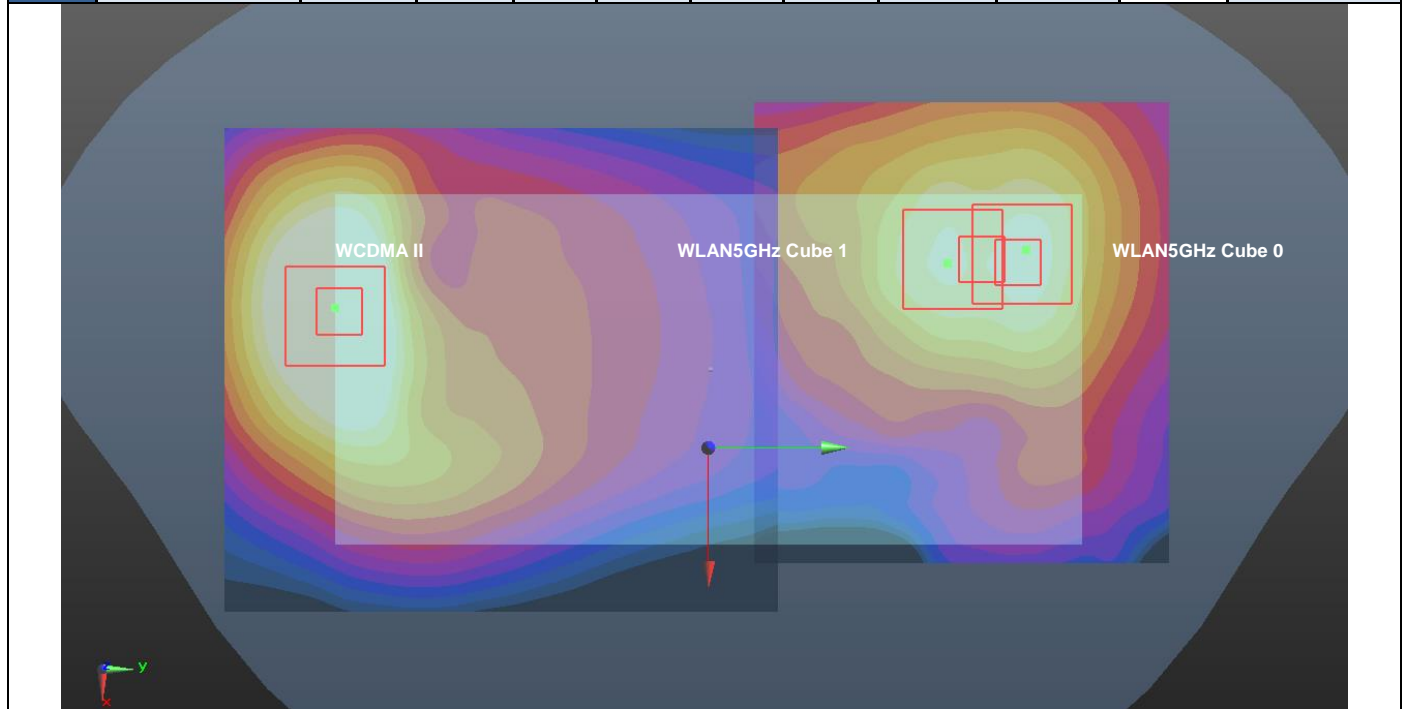
Case #40	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41	Back	2.989	0	24.2	-71	2.03	147.6	6.10	0.10	Not required
	WLAN5GHz		3.106	0	-27.6	67.2	1.78				



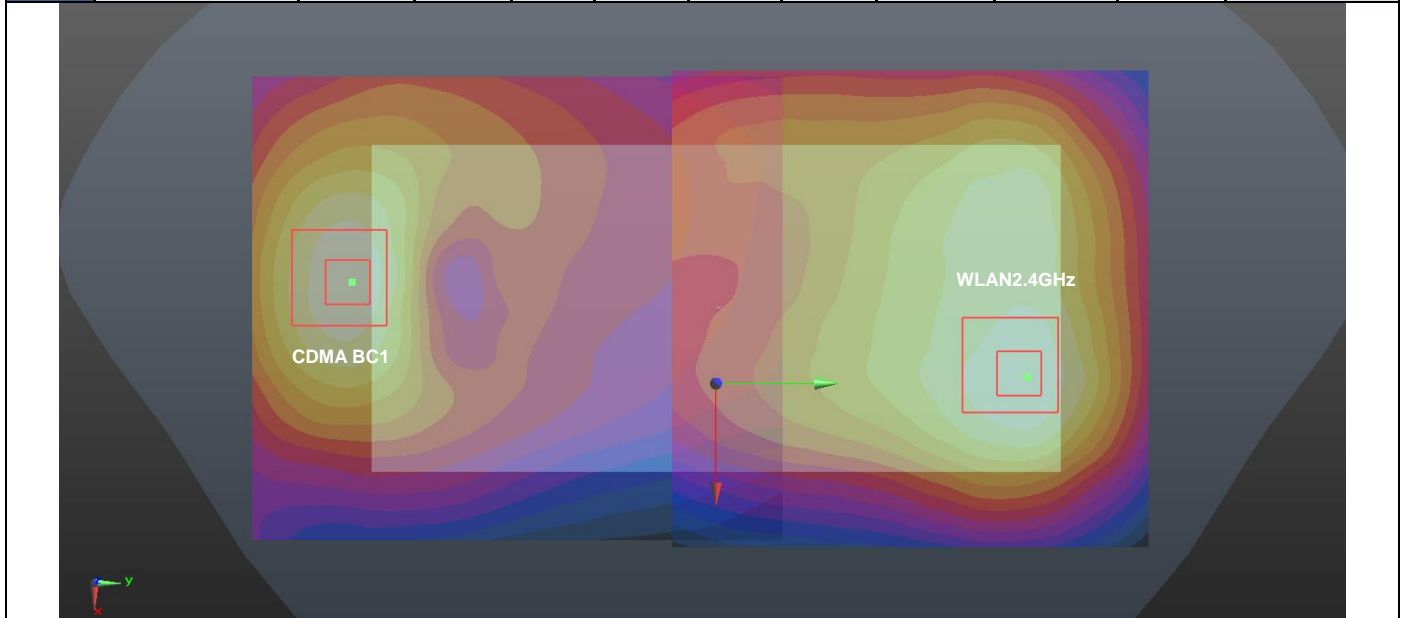
Case #41	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II	Back	3.430	7	-13.5	-81	-3.09	146.6	4.03	0.06	Not required
	WLAN2.4GHz Cube 0		0.597	7	-37.4	63.6	-3.83				
	WCDMA II	Back	3.430	7	-13.5	-81	-3.09	144.8	4.03	0.06	Not required
	WLAN2.4GHz Cube 1		0.597	7	1.4	63	-3.55				



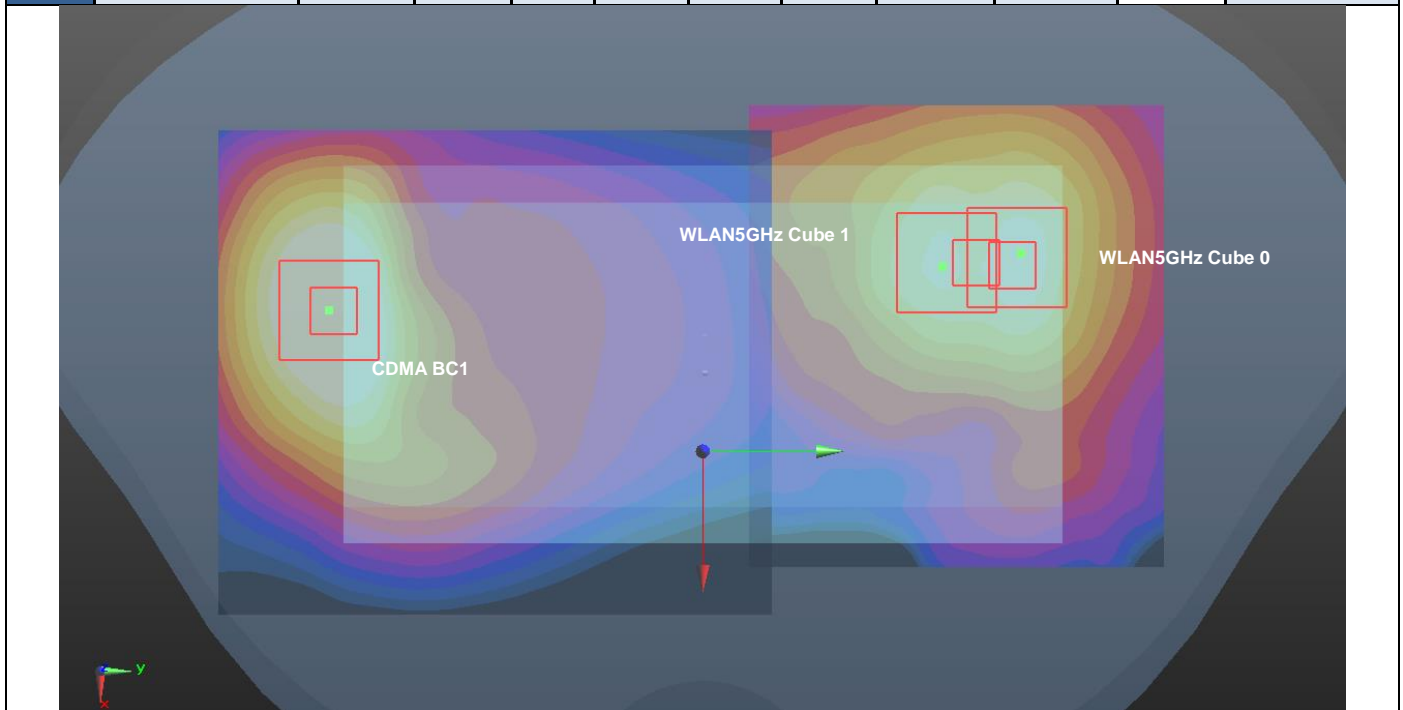
Case #42	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #42	WCDMA II	Back	3.430	7	-13.5	-81	-3.09	146.9	4.11	0.06	Not required
	WLAN5GHz Cube 0		0.683	7	-15.6	65.8	1.61				
	WCDMA II	Back	3.430	7	-13.5	-81	-3.09	145.1	4.11	0.06	Not required
	WLAN5GHz Cube 1		0.683	7	-15.8	64	1.61				



Case #43	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC1	Front	3.529	6	-6	-82.5	-3.05	157.4	4.11	0.05	Not required
	WLAN2.4GHz		0.576	6	15.6	73.4	-3.13				



Case #44	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA BC1	Back	3.341	7	-15.1	-79.4	-3.08	145.3	4.02	0.06	Not required
	WLAN5GHz Cube 0		0.683	7	-15.6	65.8	1.61				
	CDMA BC1	Back	3.341	7	-15.1	-79.4	-3.08	143.5	4.02	0.06	Not required
	WLAN5GHz Cube 1		0.683	7	-15.8	64	1.61				



## **16. 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 bands (except for GSM850/1900, LTE band7/30/38/41), 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.
3. This device supports LTE B2 / B4 / B5 / B17 and B25 / B66 / B26 / B12. Since the supported frequency span for LTE B2 / B4 / B5 / B17 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, chose LTE B25 / B66 / B26 / B12 for dynamic antenna analysis.
4. According to workshop 2019, if any single point SAR measurement result is  $> 1.2 \text{ W/kg}$  for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination. So we verified the single point SAR that bands with SAR value high than  $1.2 \text{ W/Kg}$ .
5. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

### **16.1 Supplemental Tuner Head & Body SAR Results**

Please refer to Appendix F.

**Test Engineer :** Nick Hu, Yuan Zhao, Jiaying Chang, Yuankai Kong



## **17. 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.

## 18. 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.

-----THE END-----



## **Appendix A. Plots of System Performance Check**

The plots are shown as follows.

### System Check\_Head\_750MHz

**DUT: D750V3 - SN:1087**

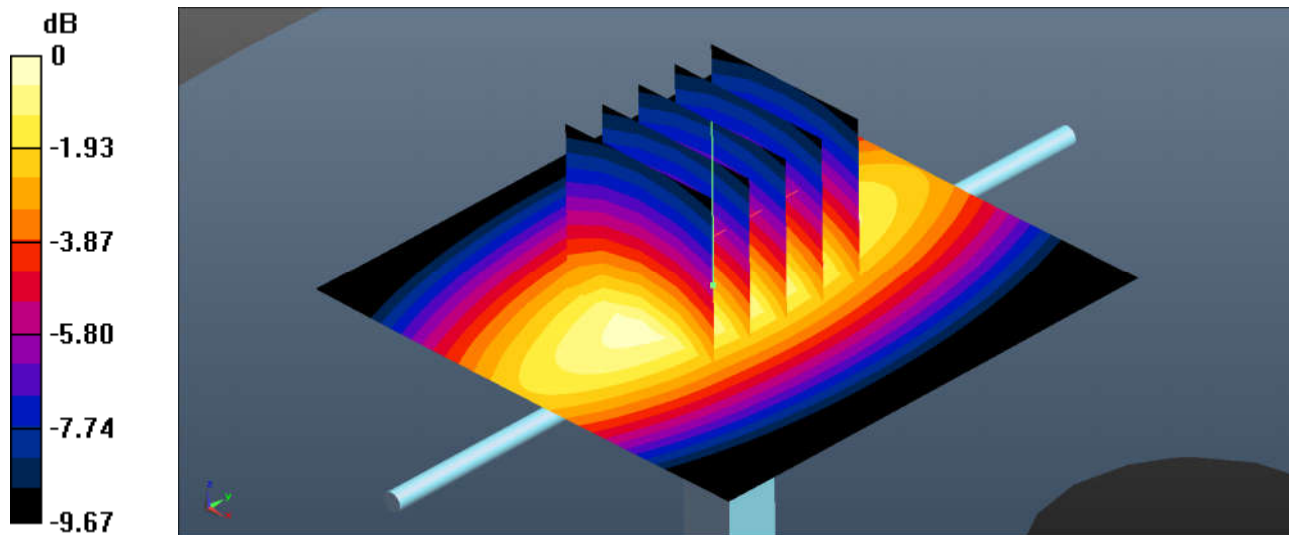
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.931$  S/m;  $\epsilon_r = 43.513$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.56, 6.56, 6.56); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 2.57 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 55.88 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 3.10 W/kg  
**SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.46 W/kg**  
Maximum value of SAR (measured) = 2.52 W/kg



0 dB = 2.52 W/kg = 4.01 dBW/kg

### System Check\_Head\_750MHz

**DUT: D750V3 - SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 41.171$ ;  $\rho = 1000 \text{ kg/m}^3$

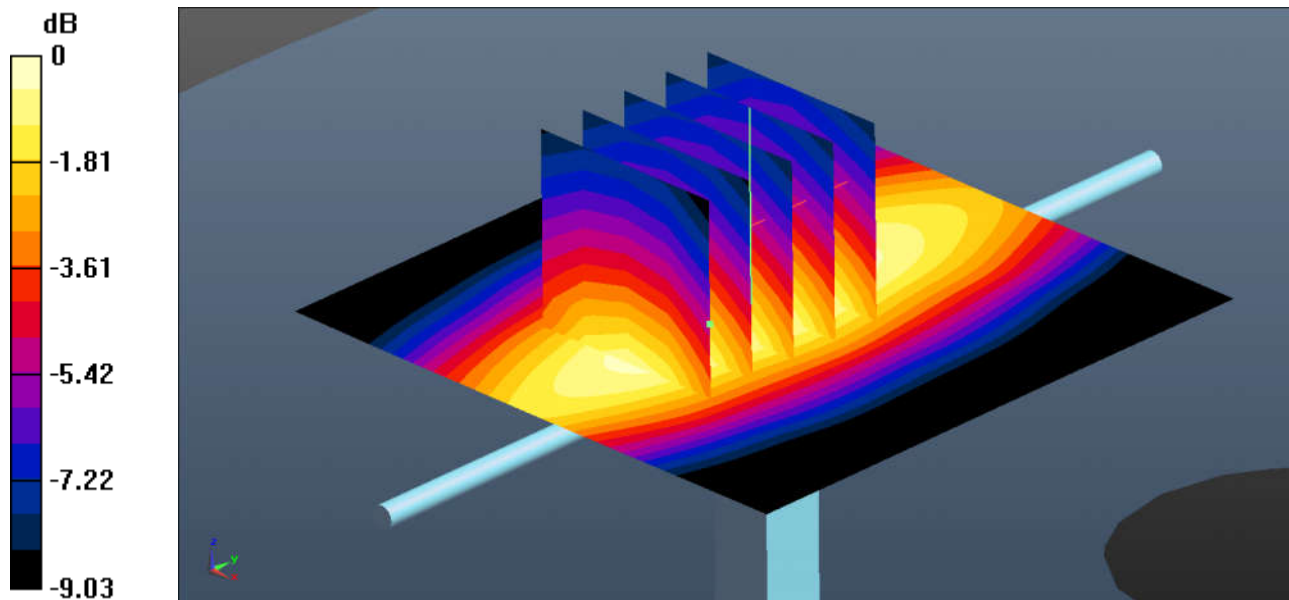
Ambient Temperature :  $23.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.6 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.56, 6.56, 6.56); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) =  $2.46 \text{ W/kg}$

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $45.93 \text{ V/m}$ ; Power Drift =  $-0.14 \text{ dB}$   
Peak SAR (extrapolated) =  $2.63 \text{ W/kg}$   
**SAR(1 g) =  $1.97 \text{ W/kg}$ ; SAR(10 g) =  $1.38 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.38 \text{ W/kg}$



0 dB =  $2.38 \text{ W/kg} = 3.77 \text{ dBW/kg}$

### System Check\_Head\_835MHz

**DUT: 835V2 - SN:4d151**

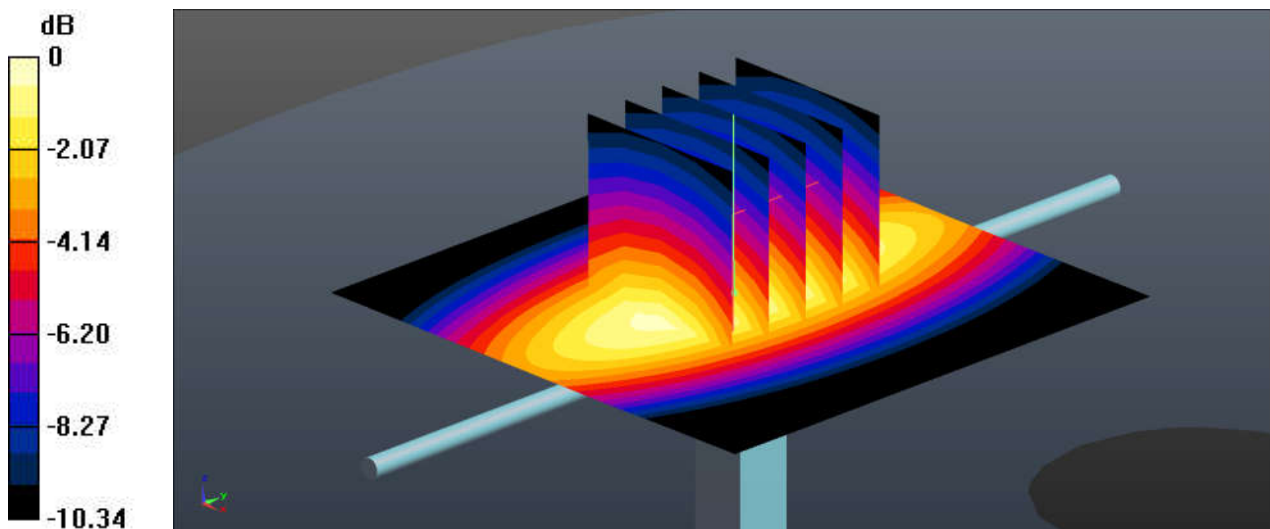
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: HSL\_850 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.911 \text{ S/m}$ ;  $\epsilon_r = 42.671$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.7 \text{ }^\circ\text{C}$

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.39, 6.39, 6.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) =  $2.94 \text{ W/kg}$

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $59.21 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$   
Peak SAR (extrapolated) =  $3.54 \text{ W/kg}$   
**SAR(1 g) =  $2.48 \text{ W/kg}$ ; SAR(10 g) =  $1.64 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.91 \text{ W/kg}$



0 dB =  $2.91 \text{ W/kg} = 4.64 \text{ dBW/kg}$

**System Check\_Head\_835MHz**

**DUT: 835V2 - SN:4d151**

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

Medium: HSL\_850 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.898 \text{ S/m}$ ;  $\epsilon_r = 41.217$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.7 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.39, 6.39, 6.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) =  $3.19 \text{ W/kg}$

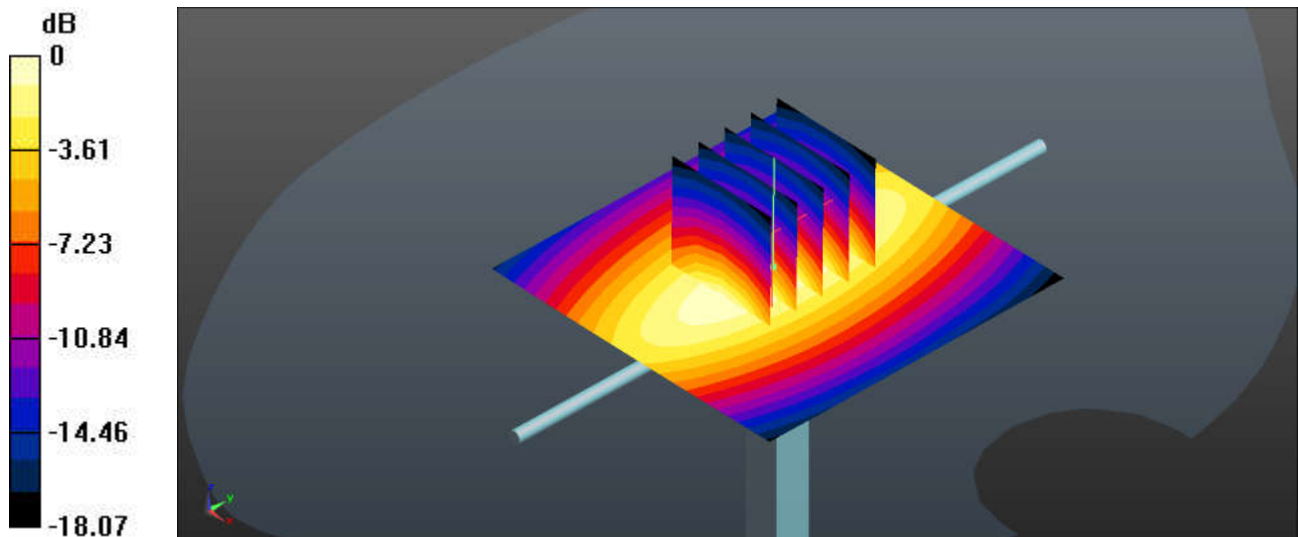
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $61.20 \text{ V/m}$ ; Power Drift =  $0.06 \text{ dB}$

Peak SAR (extrapolated) =  $3.59 \text{ W/kg}$

**SAR(1 g) =  $2.37 \text{ W/kg}$ ; SAR(10 g) =  $1.55 \text{ W/kg}$**

Maximum value of SAR (measured) =  $3.18 \text{ W/kg}$



0 dB =  $3.19 \text{ W/kg} = 5.04 \text{ dBW/kg}$

### System Check\_Head\_1750MHz

**DUT: D1750V2 - SN:1090**

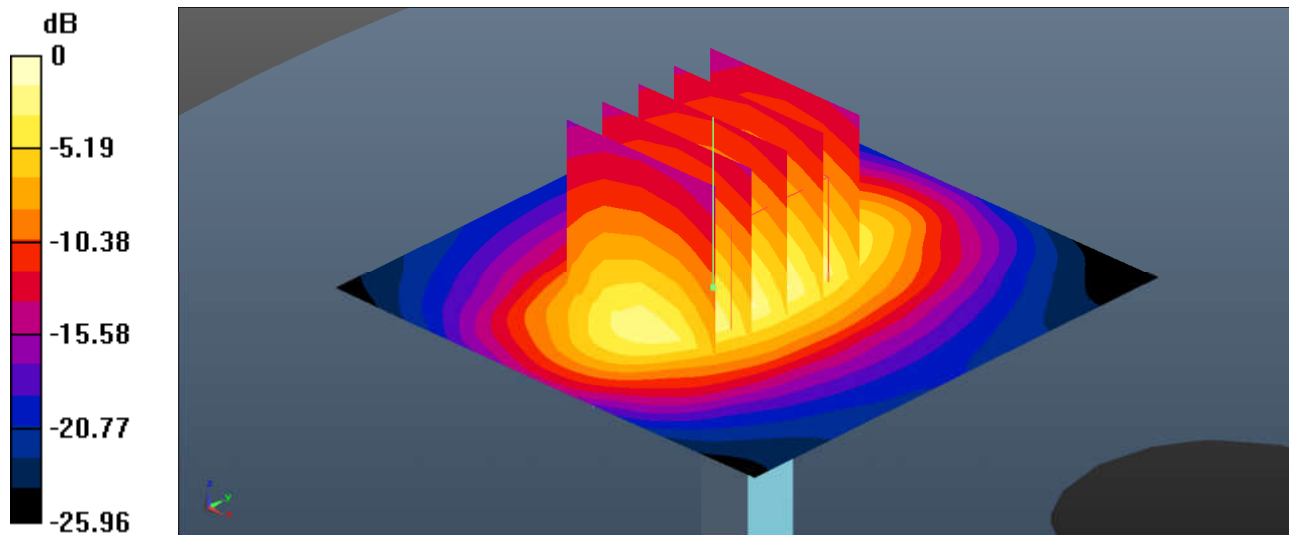
Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.343$  S/m;  $\epsilon_r = 38.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.53, 5.53, 5.53); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 11.0 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 92.55 V/m; Power Drift = -0.10 dB  
Peak SAR (extrapolated) = 14.4 W/kg  
**SAR(1 g) = 8.5 W/kg; SAR(10 g) = 4.66 W/kg**  
Maximum value of SAR (measured) = 10.4 W/kg



0 dB = 10.4 W/kg = 10.17 dBW/kg

**System Check\_Head\_1750MHz**

**DUT: D1750V2 - SN:1090**

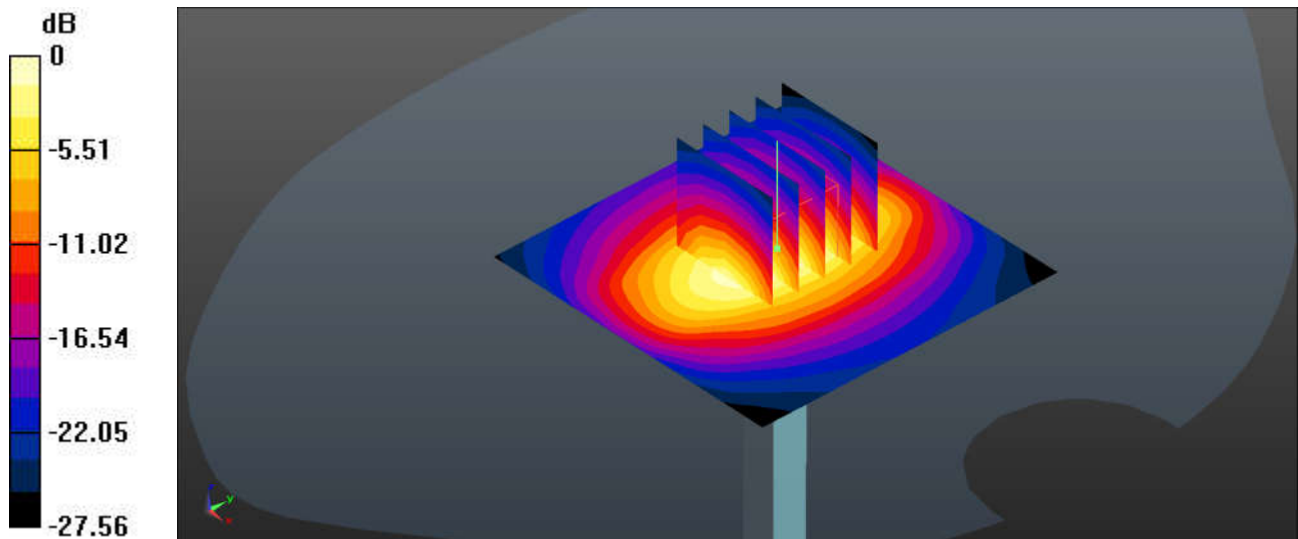
Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1  
 Medium: HSL\_1750 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 39.118$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.53, 5.53, 5.53); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 14.2 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 101.0 V/m; Power Drift = -0.01 dB  
 Peak SAR (extrapolated) = 16.9 W/kg  
**SAR(1 g) = 9.22 W/kg; SAR(10 g) = 4.89 W/kg**  
 Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

### System Check\_Head\_1750MHz

**DUT: D1750V2 - SN:1090**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.366$  S/m;  $\epsilon_r = 40.296$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.53, 5.53, 5.53); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 14.0 W/kg

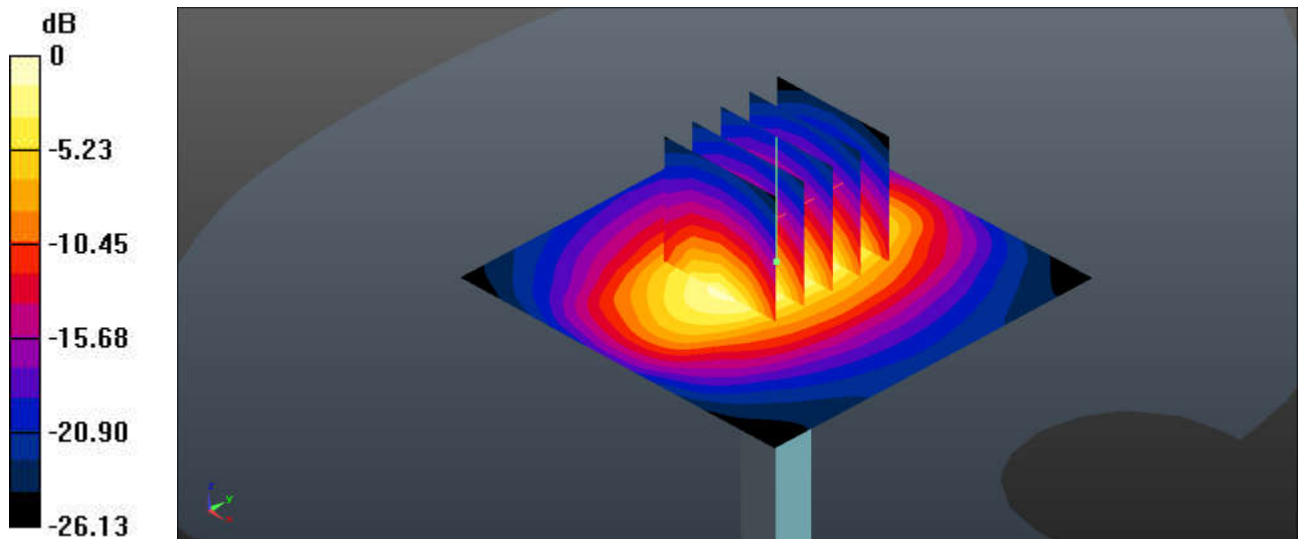
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.84 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.84 W/kg**

Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.0 W/kg = 11.46 dBW/kg

### System Check\_Head\_1900MHz

**DUT: D1900V2 - SN:5d170**

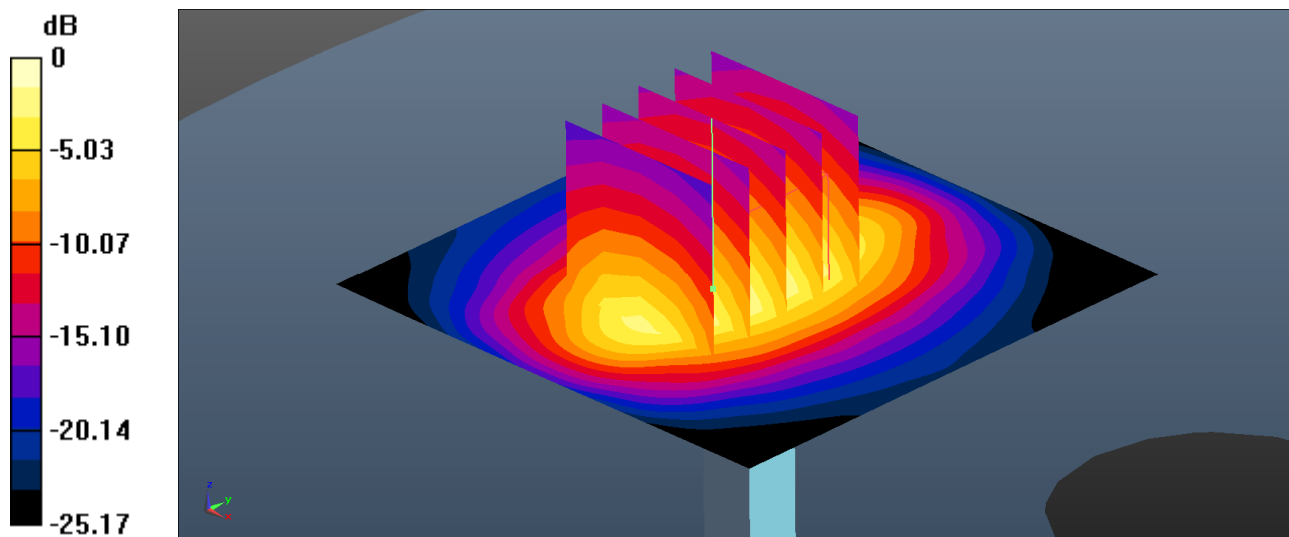
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.638$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.32, 5.32, 5.32); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 13.1 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 98.02 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 18.1 W/kg  
**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.31 W/kg**  
Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

**System Check\_Head\_1900MHz**

**DUT: D1900V2 - SN:5d170**

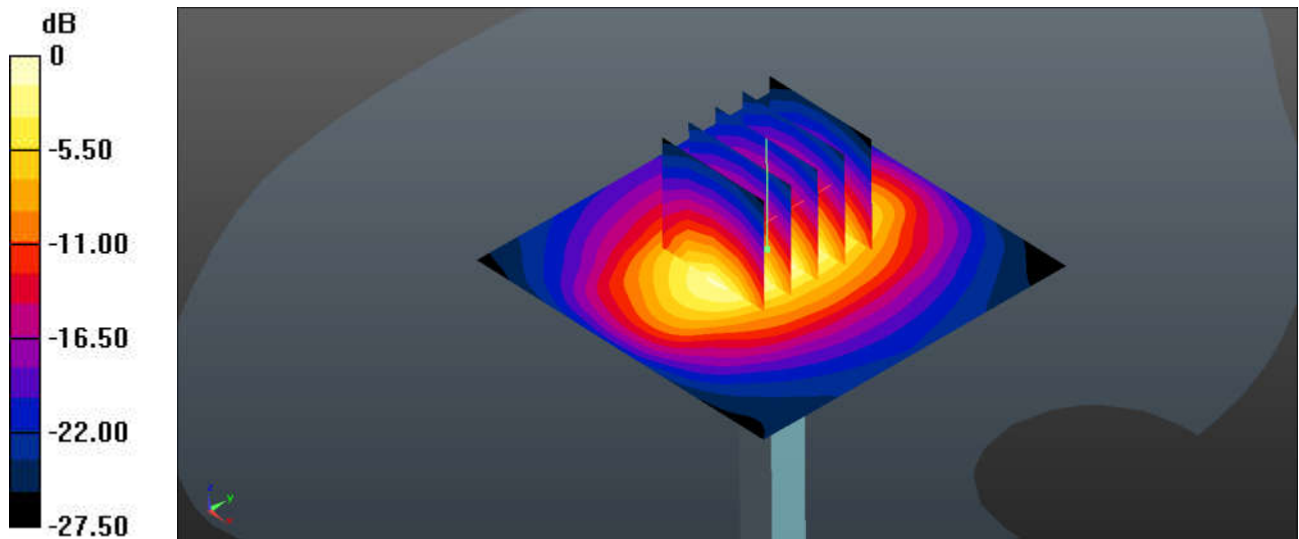
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1  
 Medium: HSL\_1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.435$  S/m;  $\epsilon_r = 40.072$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.32, 5.32, 5.32); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 14.7 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 85.21 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 19.1 W/kg  
**SAR(1 g) = 10 W/kg; SAR(10 g) = 5.1 W/kg**  
 Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

**System Check\_Head\_1900MHz**

**DUT: D1900V2 - SN:5d170**

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium: HSL\_1900 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.431$  S/m;  $\epsilon_r = 39.102$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.32, 5.32, 5.32); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- 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) = 15.0 W/kg

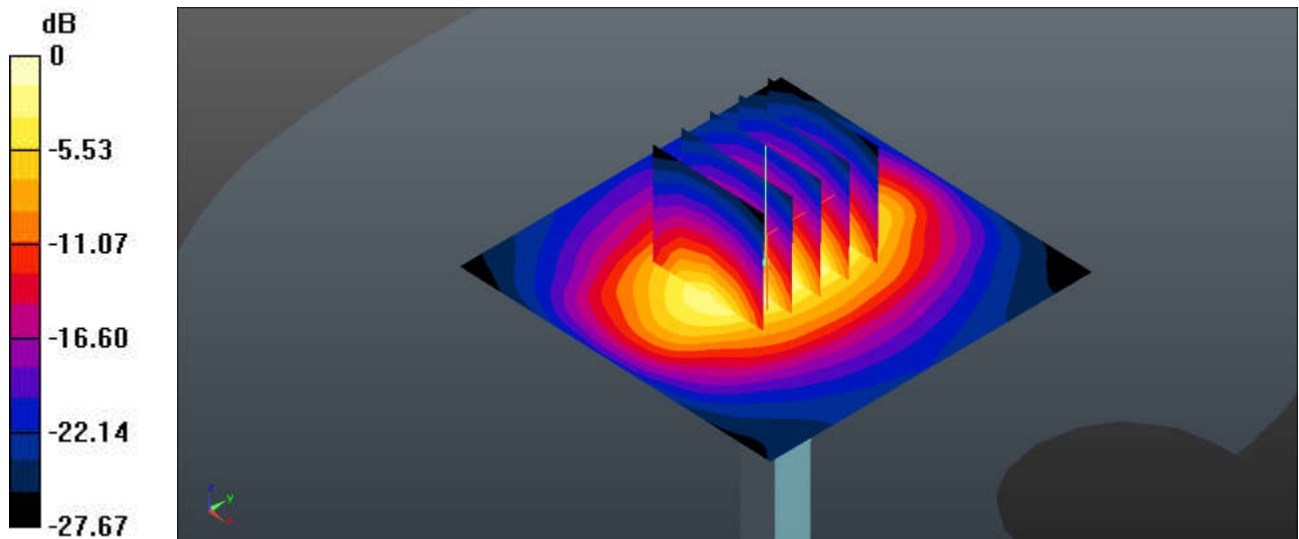
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.67 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.8 W/kg

**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.24 W/kg**

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



0 dB = 15.0 W/kg = 11.76 dBW/kg

### System Check\_Head\_2300MHz

**DUT: D2300V2 - SN:1055**

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL\_2300 Medium parameters used:  $f = 2300$  MHz;  $\sigma = 1.687$  S/m;  $\epsilon_r = 41.316$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.89, 4.89, 4.89); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 16.9 W/kg

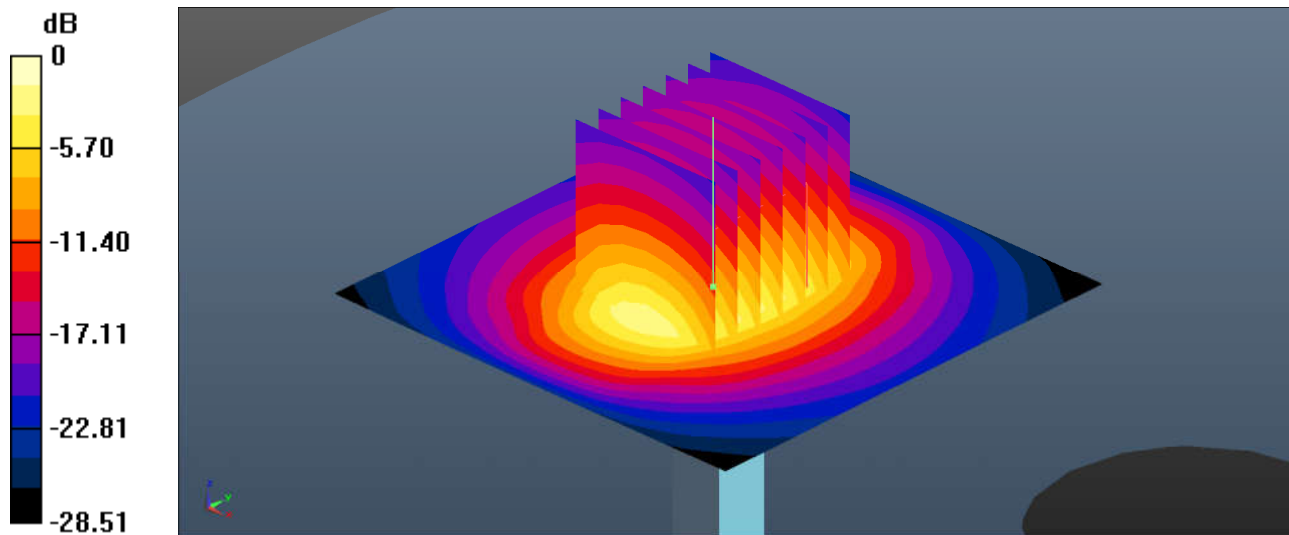
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 101.7 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 25.2 W/kg

**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.86 W/kg**

Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 16.4 W/kg = 12.15 dBW/kg

### System Check\_Head\_2450MHz

**DUT: D2450V2 - SN:908**

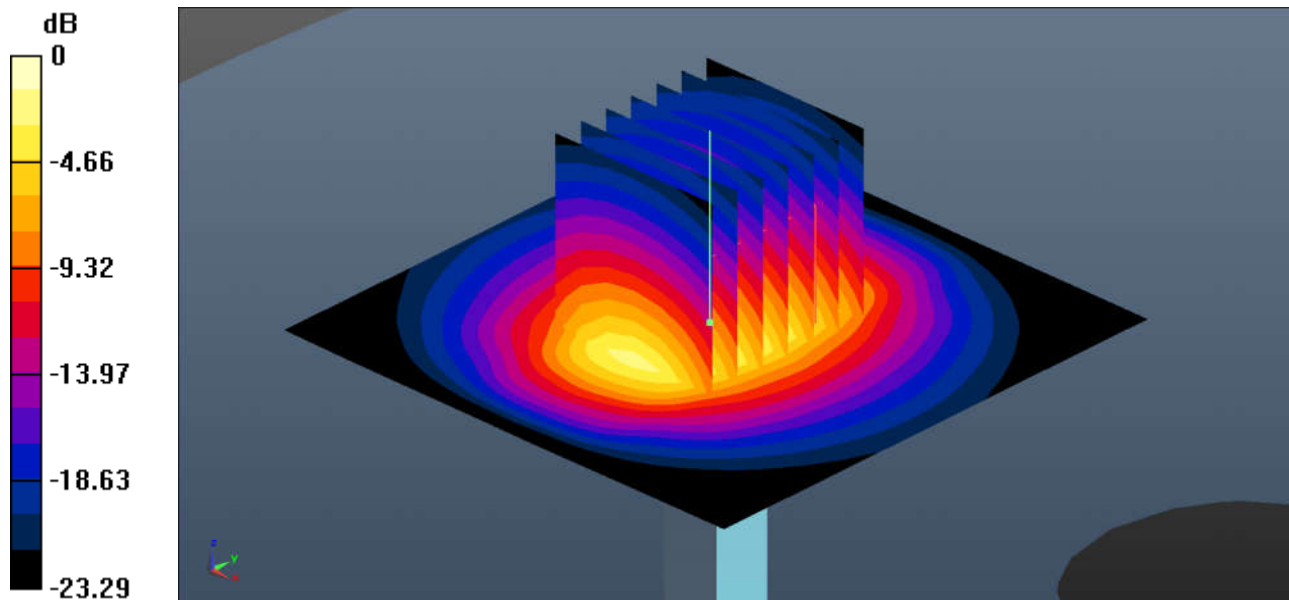
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1  
Medium: HSL\_2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.818$  S/m;  $\epsilon_r = 38.299$ ;  $\rho = 1000$ kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.6, 4.6, 4.6); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 19.0 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 103.0 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 29.2 W/kg  
**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.23 W/kg**  
Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

**System Check\_Head\_2600MHz**

**DUT: D2600V2 - SN:1070**

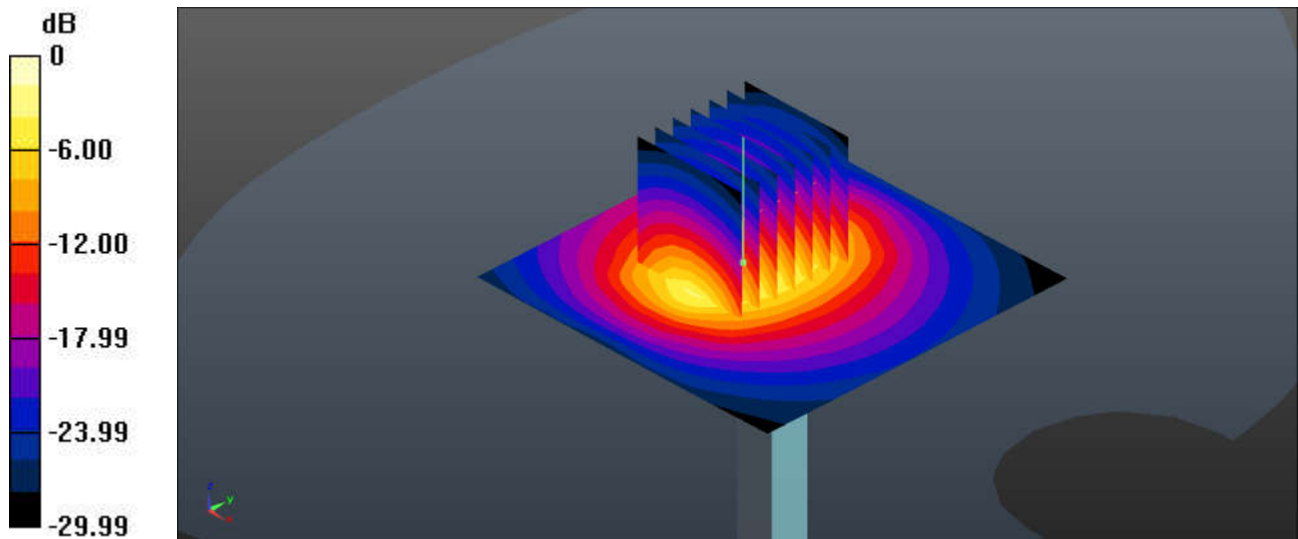
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1  
 Medium: HSL\_2600 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.049$  S/m;  $\epsilon_r = 37.828$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.39, 4.39, 4.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 24.4 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 72.80 V/m; Power Drift = 0.15 dB  
 Peak SAR (extrapolated) = 32.7 W/kg  
**SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.59 W/kg**  
 Maximum value of SAR (measured) = 23.6 W/kg



0 dB = 24.4 W/kg = 13.87 dBW/kg

**System Check\_Head\_2600MHz**

**DUT: D2600V2 - SN:1070**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL\_2600 Medium parameters used:  $f = 2600 \text{ MHz}$ ;  $\sigma = 2.056 \text{ S/m}$ ;  $\epsilon_r = 38.481$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.8 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.39, 4.39, 4.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid:  $dx=1.200 \text{ mm}$ ,  $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) =  $23.9 \text{ W/kg}$

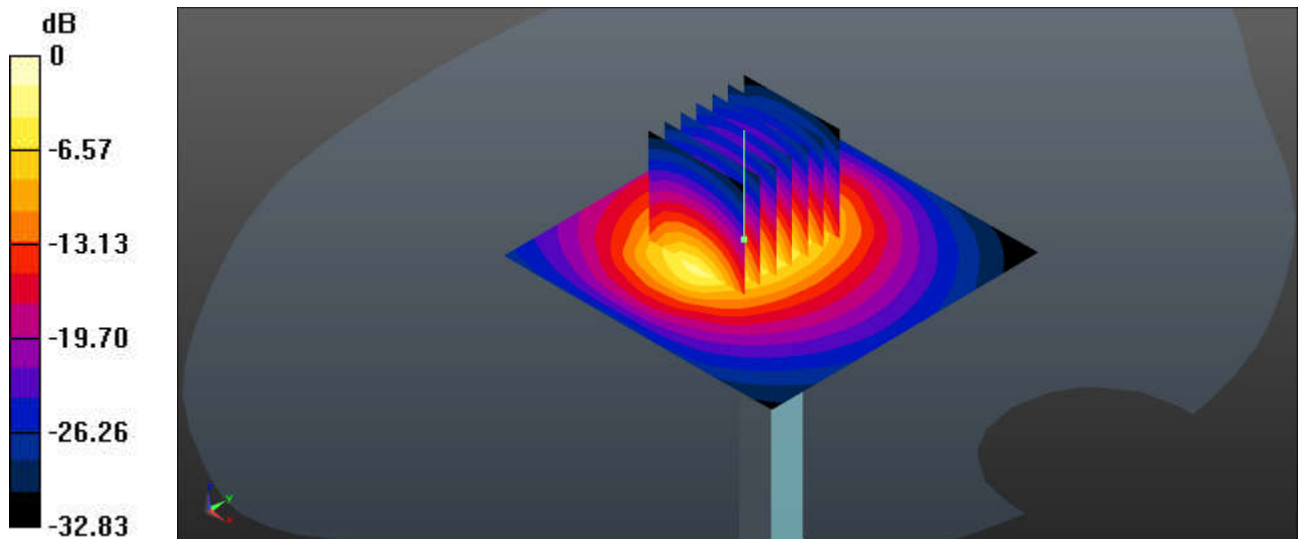
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $72.01 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

Peak SAR (extrapolated) =  $29.4 \text{ W/kg}$

**SAR(1 g) =  $14.6 \text{ W/kg}$ ; SAR(10 g) =  $6.55 \text{ W/kg}$**

Maximum value of SAR (measured) =  $23.1 \text{ W/kg}$



0 dB =  $23.9 \text{ W/kg} = 13.41 \text{ dBW/kg}$

**System Check\_Head\_2600MHz**

**DUT: D2600V2 - SN:1070**

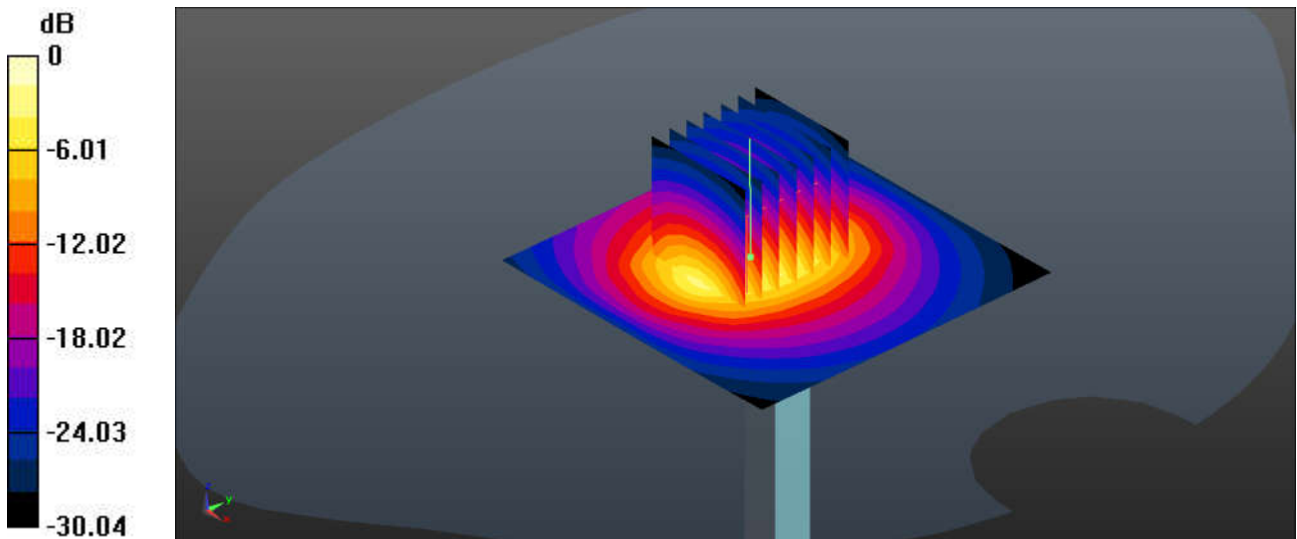
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1  
 Medium: HSL\_2600 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.03$  S/m;  $\epsilon_r = 37.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(4.39, 4.39, 4.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=250mW/Area Scan (71x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Maximum value of SAR (interpolated) = 24.8 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 76.37 V/m; Power Drift = 0.09 dB  
 Peak SAR (extrapolated) = 33.7 W/kg  
**SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.51 W/kg**  
 Maximum value of SAR (measured) = 23.9 W/kg



0 dB = 24.8 W/kg = 13.94 dBW/kg

### System Check\_Head\_5250MHz

**DUT: D5GHzV2 - SN:1113**

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.595$  S/m;  $\epsilon_r = 36.403$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(5.19, 5.19, 5.19); Calibrated: 2019.5.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.7.23
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.0 W/kg

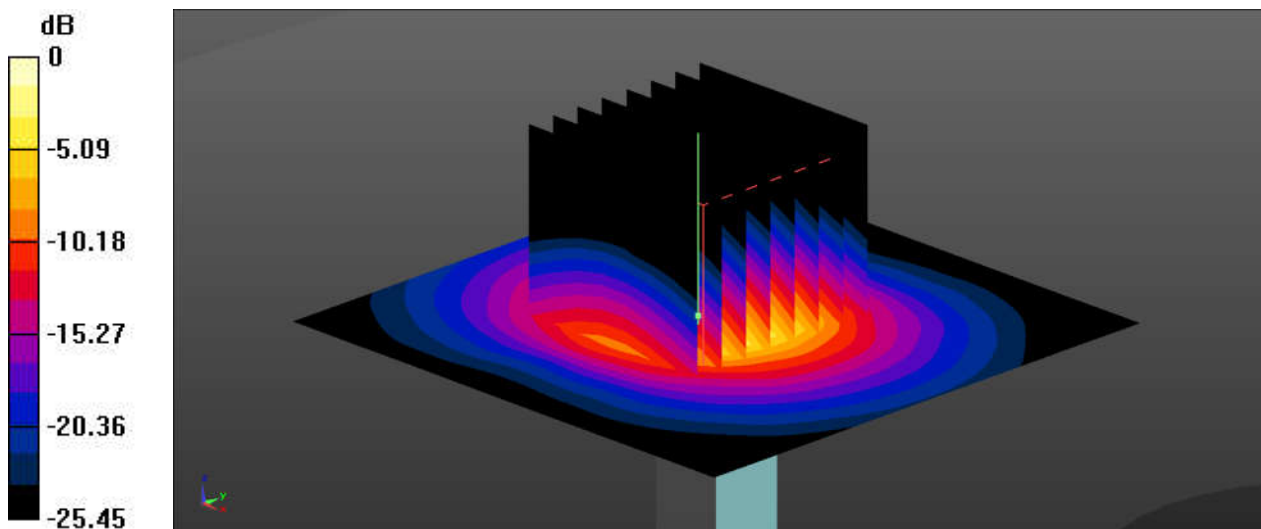
**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.59 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 30.0 W/kg

**SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.35 W/kg**

Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

### System Check\_Head\_5600MHz

**DUT: D5GHzV2 - SN:1113**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.985$  S/m;  $\epsilon_r = 35.823$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(4.92, 4.92, 4.92); Calibrated: 2019.5.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.7.23
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 21.0 W/kg

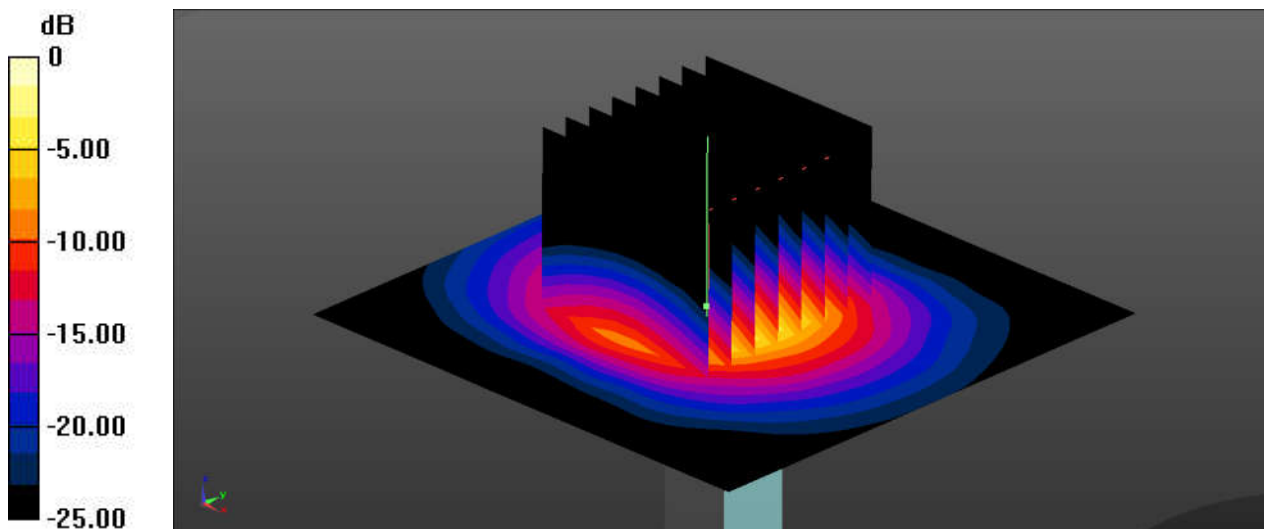
**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 43.06 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 33.5 W/kg

**SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.39 W/kg**

Maximum value of SAR (measured) = 19.3 W/kg



0 dB = 19.3 W/kg = 12.86 dBW/kg

### System Check\_Head\_5750MHz

**DUT: D5GHzV2 - SN:1113**

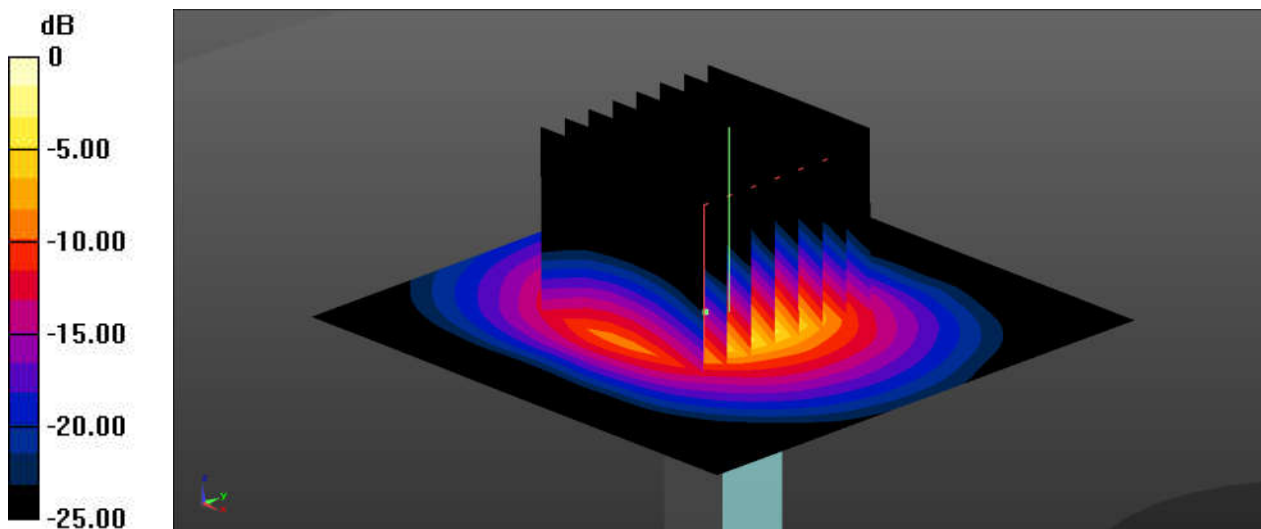
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1  
Medium: HSL\_5000 Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.16$  S/m;  $\epsilon_r = 35.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(5.17, 5.17, 5.17); Calibrated: 2019.5.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.7.23
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 18.5 W/kg

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 39.34 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 31.9 W/kg  
**SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.18 W/kg**  
Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 18.5 W/kg = 12.67 dBW/kg



## **Appendix B. Plots of High SAR Measurement**

The plots are shown as follows.

### 01\_GSM850\_GPRS 2 Tx slots\_Right Cheek\_0mm\_Ch251

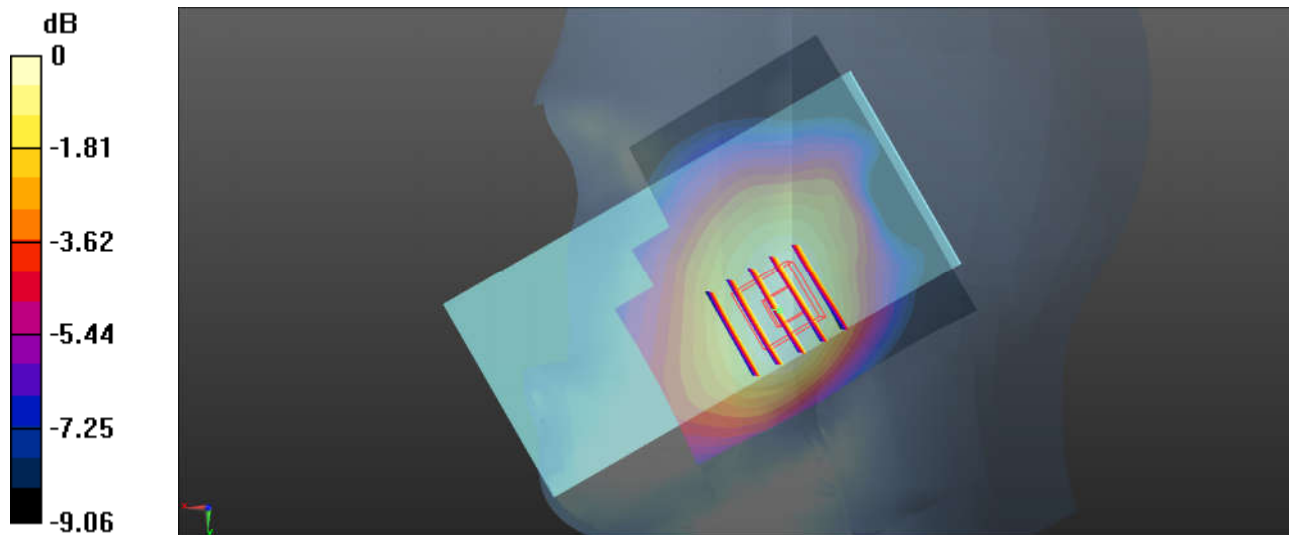
Communication System: UID 0, GSM850 (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08  
Medium: HSL\_850 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.924$  S/m;  $\epsilon_r = 42.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.1 °C ; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.39, 6.39, 6.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch251/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.708 W/kg

**Ch251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.615 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 0.778 W/kg  
**SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.410 W/kg**  
Maximum value of SAR (measured) = 0.674 W/kg



0 dB = 0.674 W/kg = -1.71 dBW/kg

### 02\_GSM1900\_GPRS 3 Tx slots\_Left Cheek\_0mm\_Ch661

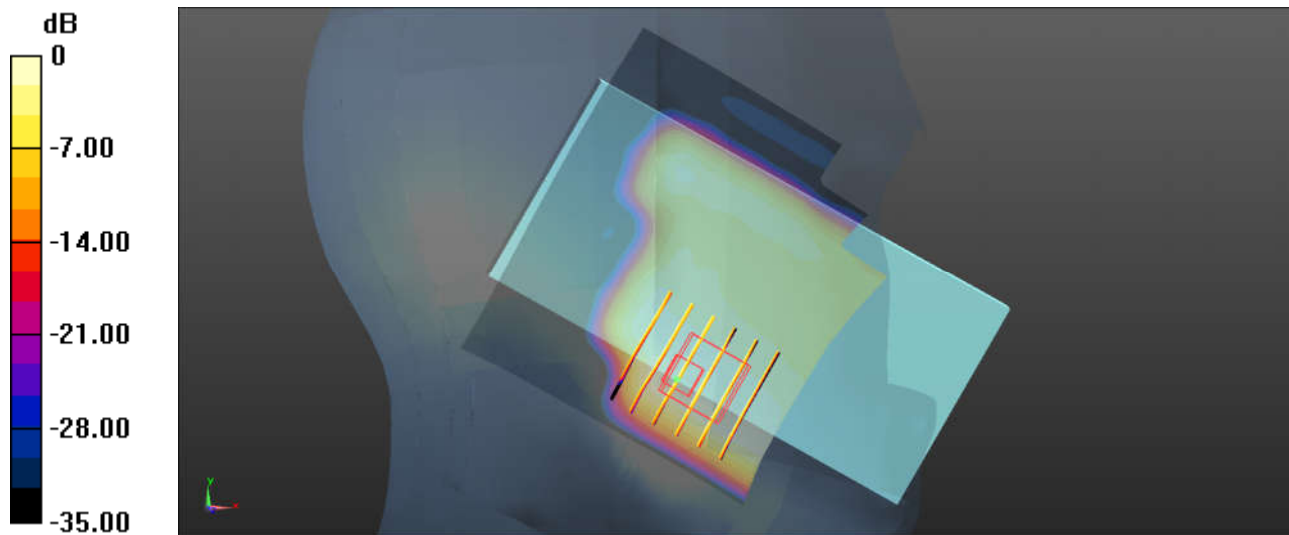
Communication System: UID 0, PCS (0); Frequency: 1880 MHz; Duty Cycle: 1:2.77  
Medium: HSL\_1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.37$  S/m;  $\epsilon_r = 40.728$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.32, 5.32, 5.32); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch661/Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.0956 W/kg

**Ch661/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.621 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 0.0960 W/kg  
**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.034 W/kg**  
Maximum value of SAR (measured) = 0.0815 W/kg



0 dB = 0.0815 W/kg = -10.89 dBW/kg

### 03\_WCDMA II\_RMC 12.2Kbps\_Left Cheek\_0mm\_Ch9400

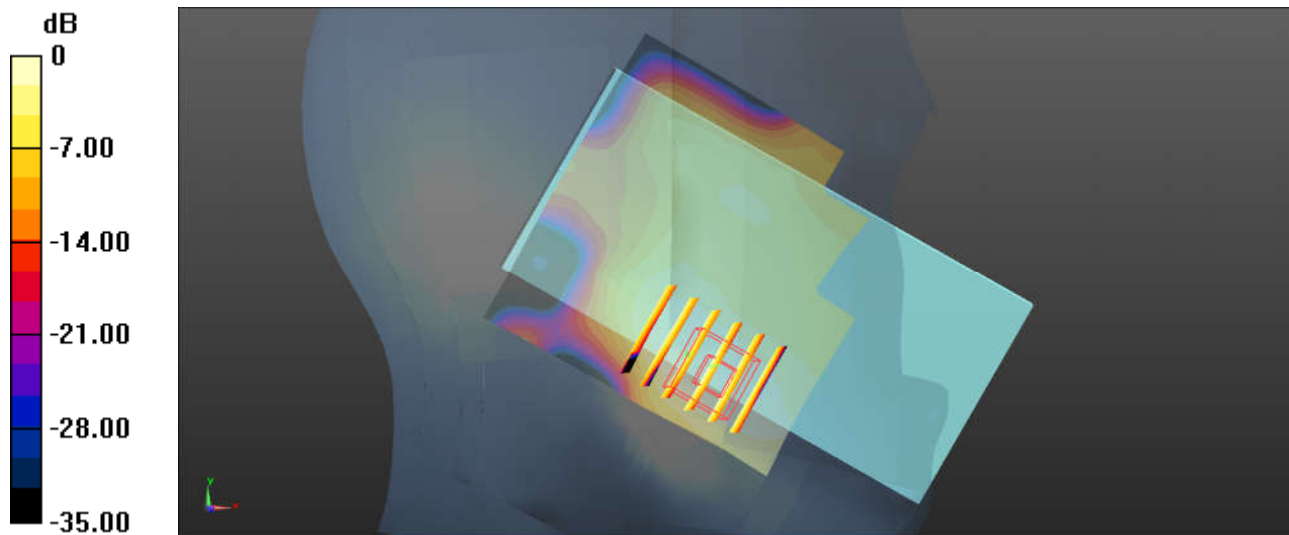
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 39.190$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.32, 5.32, 5.32); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch9400/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.168 W/kg

**Ch9400/Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 4.365 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 0.182 W/kg  
**SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.065 W/kg**  
Maximum value of SAR (measured) = 0.152 W/kg



### 04\_WCDMA IV\_RMC 12.2Kbps\_Right Cheek\_0mm\_Ch1312

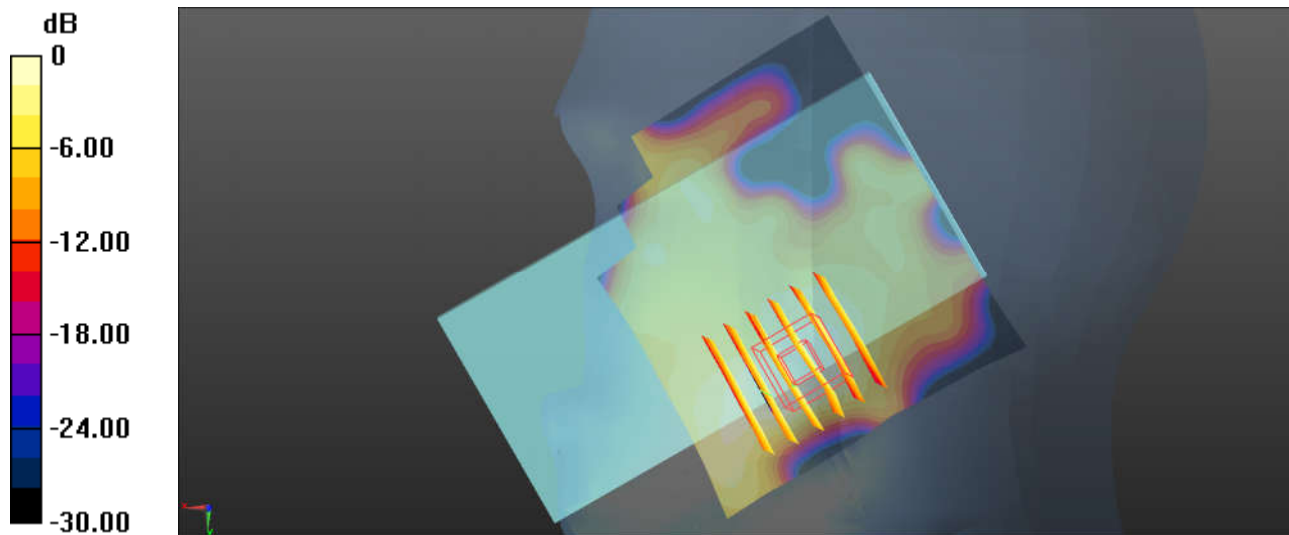
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750 Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.306$  S/m;  $\epsilon_r = 38.723$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.53, 5.53, 5.53); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch1312/Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.204 W/kg

**Ch1312/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.081 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.304 W/kg  
**SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.082 W/kg**  
Maximum value of SAR (measured) = 0.199 W/kg



0 dB = 0.199 W/kg = -7.01 dBW/kg

**05\_WCDMA V\_RMC 12.2Kbps\_Right Cheek\_0mm\_Ch4233**

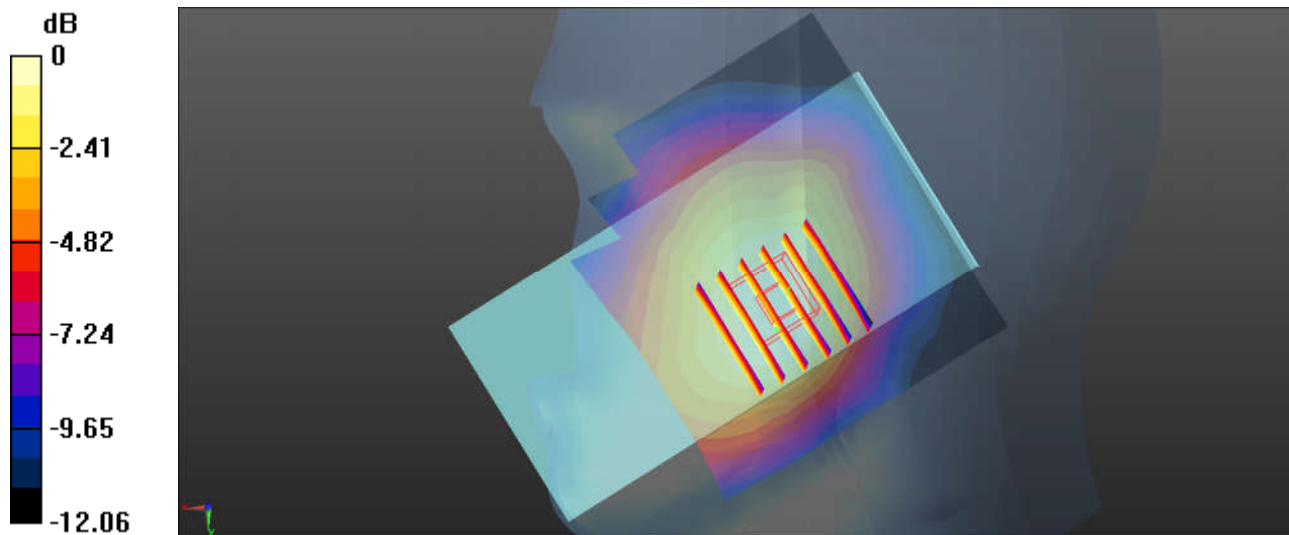
Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz; Duty Cycle: 1:1  
 Medium: HSL\_850 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 42.538$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.1 °C ; Liquid Temperature : 22.7 °C

**DASY5 Configuration:**

- Probe: ES3DV3 - SN3293; ConvF(6.39, 6.39, 6.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch4233/Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 0.603 W/kg

**Ch4233/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 5.297 V/m; Power Drift = 0.04 dB  
 Peak SAR (extrapolated) = 0.681 W/kg  
**SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.361 W/kg**  
 Maximum value of SAR (measured) = 0.607 W/kg



0 dB = 0.607 W/kg = -2.17 dBW/kg

### 06\_CDMA2000 BC0\_RC3 SO55\_Right Cheek\_0mm\_Ch777

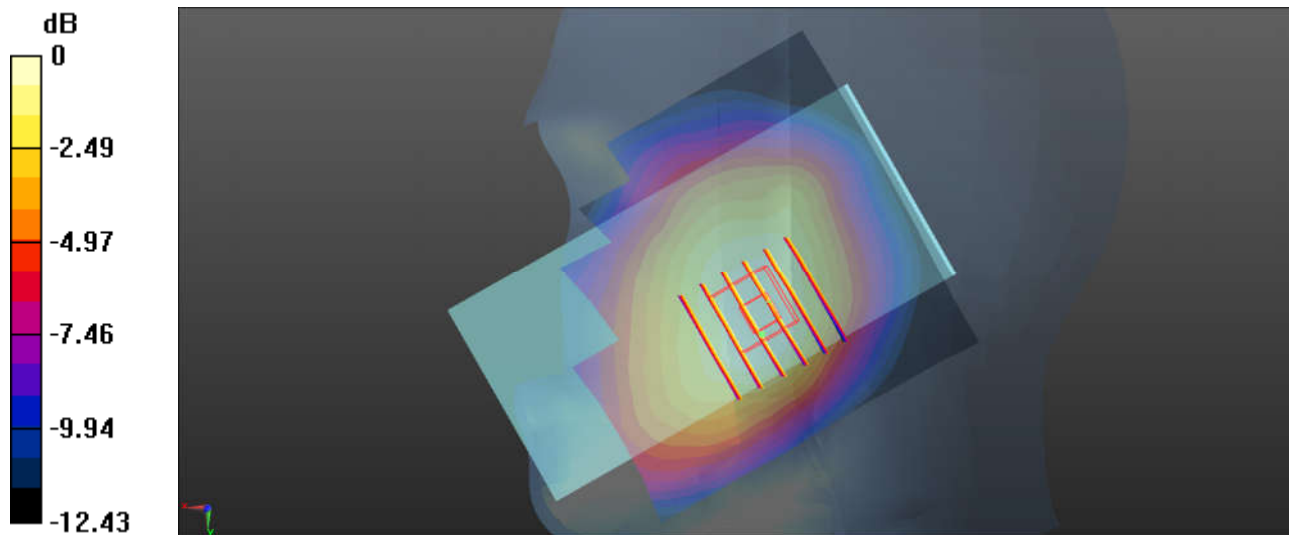
Communication System: UID 0, CDMA (0); Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: HSL\_850 Medium parameters used:  $f = 848.31$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 41.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.1 °C ; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.39, 6.39, 6.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch777/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.621 W/kg

**Ch777/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.509 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 0.674 W/kg  
**SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.362 W/kg**  
Maximum value of SAR (measured) = 0.602 W/kg



0 dB = 0.602 W/kg = -2.20 dBW/kg

### 07\_CDMA2000 BC10\_RC3 SO55\_Right Cheek\_0mm\_Ch476

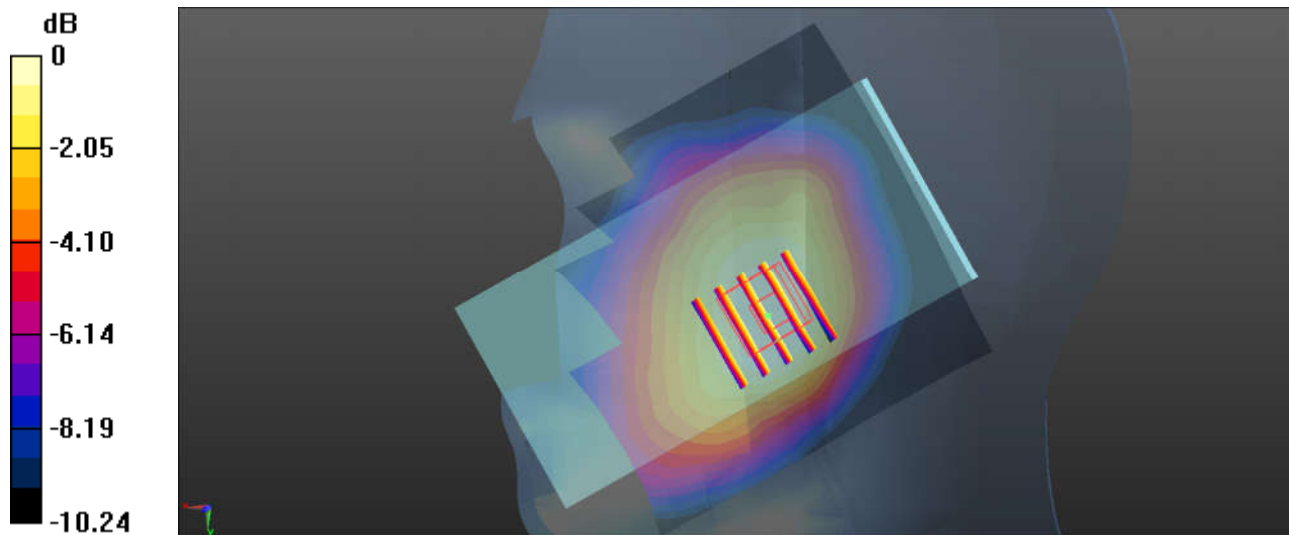
Communication System: UID 0, CDMA (0); Frequency: 817.9 MHz; Duty Cycle: 1:1  
Medium: HSL\_850 Medium parameters used:  $f = 818 \text{ MHz}$ ;  $\sigma = 0.882 \text{ S/m}$ ;  $\epsilon_r = 41.428$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.7 \text{ }^\circ\text{C}$

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.39, 6.39, 6.39); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch476/Area Scan (81x81x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.582 \text{ W/kg}$

**Ch476/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $6.693 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$   
Peak SAR (extrapolated) =  $0.634 \text{ W/kg}$   
**SAR(1 g) =  $0.451 \text{ W/kg}$ ; SAR(10 g) =  $0.341 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $0.564 \text{ W/kg}$



$0 \text{ dB} = 0.564 \text{ W/kg} = -2.49 \text{ dBW/kg}$

### 08\_CDMA2000 BC1\_RC3 SO55\_Left Cheek\_0mm\_Ch600

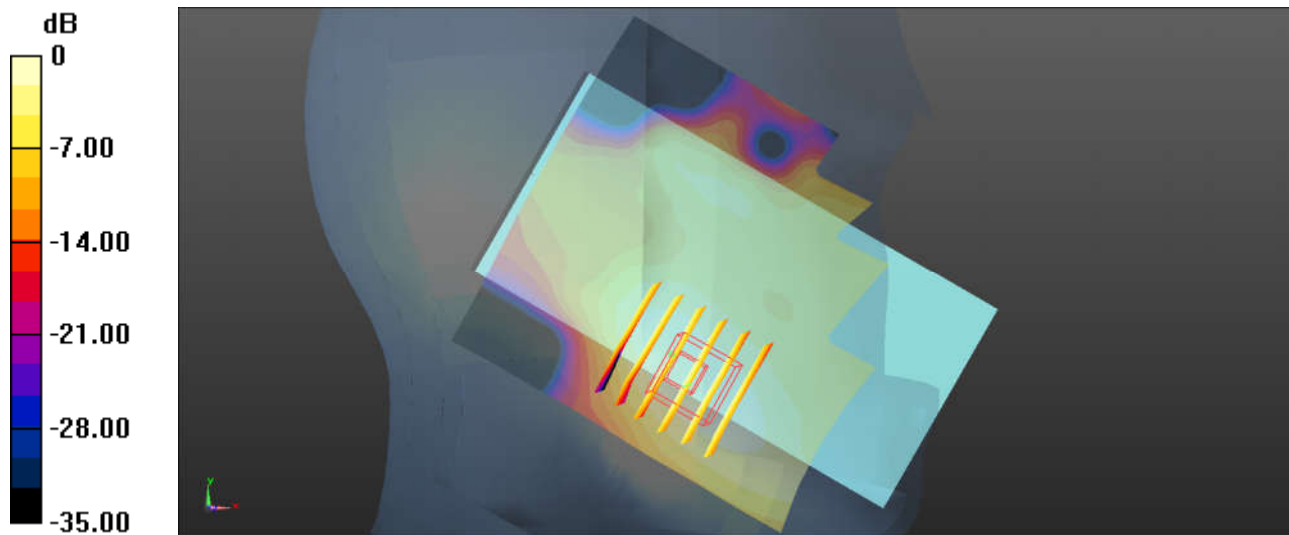
Communication System: UID 0, CDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 39.190$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.9 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(5.32, 5.32, 5.32); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch600/Area Scan (81x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.120 W/kg

**Ch600/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 2.678 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 0.144 W/kg  
**SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.054 W/kg**  
Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg = -9.36 dBW/kg

### 09\_LTE Band 12\_10M\_QPSK\_1RB\_25Offset\_Left Cheek\_0mm\_Ch23095

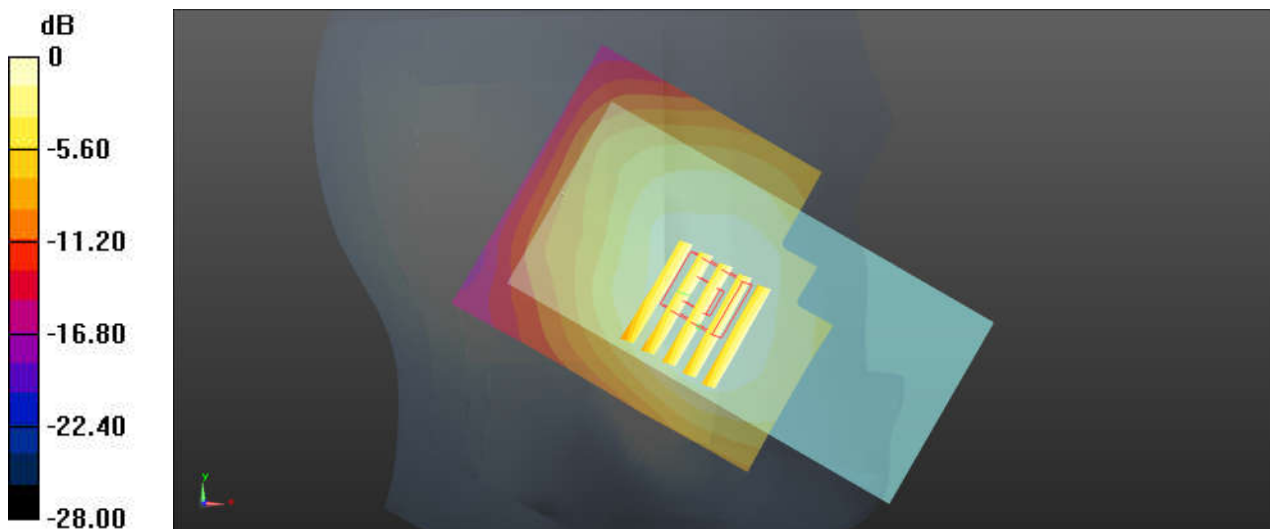
Communication System: UID 0, LTE-FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 707.5$  MHz;  $\sigma = 0.891$  S/m;  $\epsilon_r = 44.047$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.56, 6.56, 6.56); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch23095/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.324 W/kg

**Ch23095/Zoom Scan (6x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.313 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.353 W/kg  
**SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.224 W/kg**  
Maximum value of SAR (measured) = 0.327 W/kg



0 dB = 0.324 W/kg = -4.89 dBW/kg

### 10\_LTE Band 13\_10M\_QPSK\_1RB\_0Offset\_Right Cheek\_0mm\_Ch23230

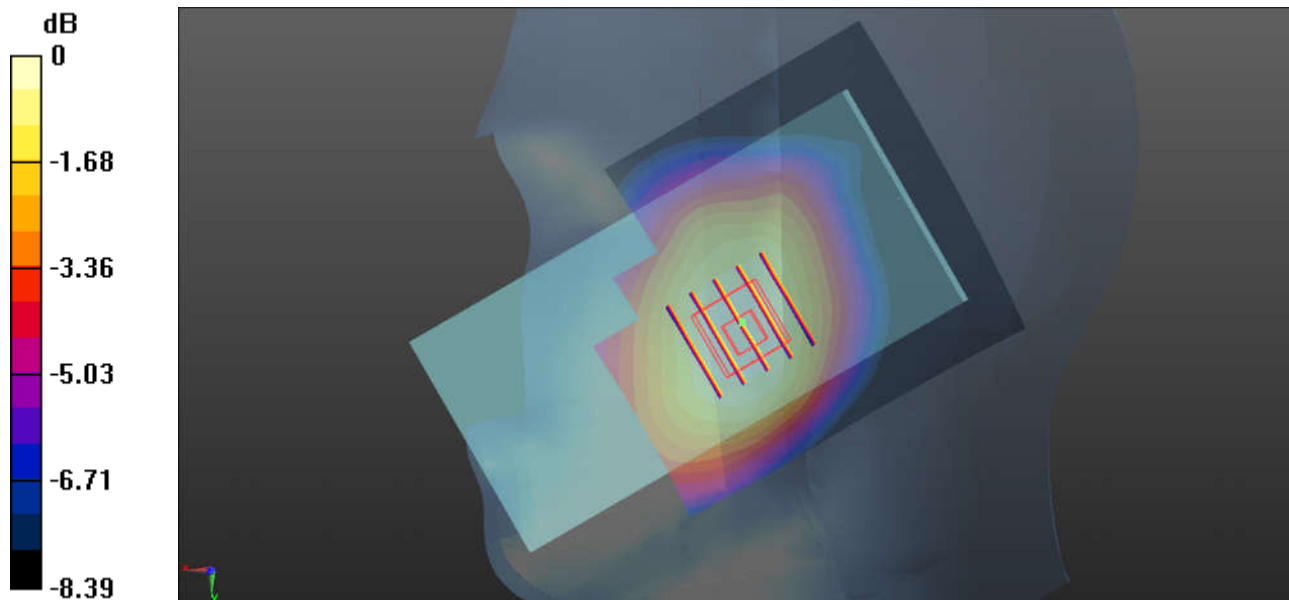
Communication System: UID 0, LTE-FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1  
Medium: HSL\_750 Medium parameters used:  $f = 782$  MHz;  $\sigma = 0.9$  S/m;  $\epsilon_r = 40.783$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3293; ConvF(6.56, 6.56, 6.56); Calibrated: 2019.11.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2019.11.20
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**Ch23230/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.474 W/kg

**Ch23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 7.431 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 0.499 W/kg  
**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.296 W/kg**  
Maximum value of SAR (measured) = 0.457 W/kg



0 dB = 0.457 W/kg = -3.40 dBW/kg