

Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN 2.4G and BT

Band	Antenna	DSI State	Position	Dist.(mm)	Stand alone SAR			SUM SAR 1+2+3
					1	2	3.000	
					WWAN	2.4G WIFI	Bluetooth	
LTE B2	ANT0	FULL	Left Cheek	0	0.296	0.132	0.052	0.480
		FULL	Left Tilt	0	0.086	0.099	0.027	0.212
		FULL	Right Cheek	0	0.594	0.278	0.089	0.961
		FULL	Right Tilt	0	0.116	0.072	0.020	0.208
LTE B4	ANT0	FULL	Left Cheek	0	0.179	0.132	0.052	0.363
		FULL	Left Tilt	0	0.086	0.099	0.027	0.212
		FULL	Right Cheek	0	0.417	0.278	0.089	0.784
		FULL	Right Tilt	0	0.098	0.072	0.020	0.190
LTE B5	ANT0	FULL	Left Cheek	0	0.166	0.132	0.052	0.350
		FULL	Left Tilt	0	0.067	0.099	0.027	0.193
		FULL	Right Cheek	0	0.280	0.278	0.089	0.647
		FULL	Right Tilt	0	0.061	0.072	0.020	0.153
LTE B12	ANT0	FULL	Left Cheek	0	0.186	0.132	0.052	0.370
		FULL	Left Tilt	0	0.070	0.099	0.027	0.196
		FULL	Right Cheek	0	0.244	0.278	0.089	0.611
		FULL	Right Tilt	0	0.088	0.072	0.020	0.180
LTE B13	ANT0	FULL	Left Cheek	0	0.268	0.132	0.052	0.452
		FULL	Left Tilt	0	0.115	0.099	0.027	0.241
		FULL	Right Cheek	0	0.334	0.278	0.089	0.701
		FULL	Right Tilt	0	0.115	0.072	0.020	0.207
LTE B17	ANT0	FULL	Left Cheek	0	0.160	0.132	0.052	0.344
		FULL	Left Tilt	0	0.070	0.099	0.027	0.196
		FULL	Right Cheek	0	0.215	0.278	0.089	0.582
		FULL	Right Tilt	0	0.072	0.072	0.020	0.164
LTE B25	ANT0	FULL	Left Cheek	0	0.353	0.132	0.052	0.537
		FULL	Left Tilt	0	0.106	0.099	0.027	0.232
		FULL	Right Cheek	0	0.588	0.278	0.089	0.955
		FULL	Right Tilt	0	0.148	0.072	0.020	0.240
LTE B26	ANT0	FULL	Left Cheek	0	0.104	0.132	0.052	0.288
		FULL	Left Tilt	0	0.035	0.099	0.027	0.161
		FULL	Right Cheek	0	0.129	0.278	0.089	0.496
		FULL	Right Tilt	0	0.035	0.072	0.020	0.127
LTE B66	ANT0	FULL	Left Cheek	0	0.170	0.132	0.052	0.354
		FULL	Left Tilt	0	0.078	0.099	0.027	0.204
		FULL	Right Cheek	0	0.453	0.278	0.089	0.820
		FULL	Right Tilt	0	0.116	0.072	0.020	0.208
LTE B71	ANT0	FULL	Left Cheek	0	0.219	0.132	0.052	0.403
		FULL	Left Tilt	0	0.083	0.099	0.027	0.209
		FULL	Right Cheek	0	0.294	0.278	0.089	0.661
		FULL	Right Tilt	0	0.093	0.072	0.020	0.185

Note1: The highest Summed 1g SAR is 0.961 W/Kg< 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN 2.4G and BT

Band	Antenna	DSI State	Position	Dist.(mm)	Stand alone SAR			SUM SAR
					1	2	3	1+2+3
					WWAN	2.4G WIFI	Bluetooth	
LTE B2	ANT0	FULL	Front Side	10	0.379	0.121	0.018	0.518
		FULL	Back Side	10	1.104	0.228	0.033	1.365
LTE B4	ANT0	FULL	Front Side	10	0.261	0.121	0.018	0.400
		FULL	Back Side	10	1.111	0.228	0.033	1.372
LTE B5	ANT0	FULL	Front Side	10	0.387	0.121	0.018	0.526
		FULL	Back Side	10	0.990	0.228	0.033	1.251
LTE B12	ANT0	FULL	Front Side	10	0.427	0.121	0.018	0.566
		FULL	Back Side	10	0.999	0.228	0.033	1.260
LTE B13	ANT0	FULL	Front Side	10	0.517	0.121	0.018	0.656
		FULL	Back Side	10	0.728	0.228	0.033	0.989
LTE B17	ANT0	FULL	Front Side	10	0.444	0.121	0.018	0.583
		FULL	Back Side	10	0.966	0.228	0.033	1.227
LTE B25	ANT0	FULL	Front Side	10	0.439	0.121	0.018	0.578
		FULL	Back Side	10	1.103	0.228	0.033	1.364
LTE B26	ANT0	FULL	Front Side	10	0.362	0.121	0.018	0.501
		FULL	Back Side	10	0.955	0.228	0.033	1.216
LTE B66	ANT0	FULL	Front Side	10	0.247	0.121	0.018	0.386
		FULL	Back Side	10	1.113	0.228	0.033	1.374
LTE B71	ANT0	FULL	Front Side	10	0.320	0.121	0.018	0.459
		FULL	Back Side	10	0.759	0.228	0.033	1.020
Note1: The highest Summed 1g SAR is 1.374 W/Kg< 1.6 W/kg, so Simultaneous Transmission SAR test is not required								

Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN 2.4G and BT

Band	Antenna	DSI State	Position	Dist.(mm)	Stand alone SAR			SUM SAR 1+2+3
					1 WWAN	2 2.4G WIFI	3 Bluetooth	
LTE B2	ANT0	FULL	Front Side	10	0.379	0.121	0.018	0.518
		FULL	Back Side	10	1.104	0.228	0.033	1.365
		FULL	Left Edge	10	0.428	0.103	0.020	0.551
		FULL	Right Edge	10	0.145	0.000	0.000	0.145
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.734	0.000	0.000	0.734
LTE B4	ANT0	FULL	Front Side	10	0.261	0.121	0.018	0.400
		FULL	Back Side	10	1.111	0.228	0.033	1.372
		FULL	Left Edge	10	0.379	0.103	0.020	0.502
		FULL	Right Edge	10	0.075	0.000	0.000	0.075
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.731	0.000	0.000	0.731
LTE B5	ANT0	FULL	Front Side	10	0.387	0.121	0.018	0.526
		FULL	Back Side	10	0.990	0.228	0.033	1.251
		FULL	Left Edge	10	0.434	0.103	0.020	0.557
		FULL	Right Edge	10	0.395	0.000	0.000	0.395
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.044	0.000	0.000	0.044
LTE B12	ANT0	FULL	Front Side	10	0.427	0.121	0.018	0.566
		FULL	Back Side	10	0.999	0.228	0.033	1.260
		FULL	Left Edge	10	0.391	0.103	0.020	0.514
		FULL	Right Edge	10	0.418	0.000	0.000	0.418
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.095	0.000	0.000	0.095
LTE B13	ANT0	FULL	Front Side	10	0.517	0.121	0.018	0.656
		FULL	Back Side	10	0.728	0.228	0.033	0.989
		FULL	Left Edge	10	0.467	0.103	0.020	0.590
		FULL	Right Edge	10	0.410	0.000	0.000	0.410
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.081	0.000	0.000	0.081
LTE B17	ANT0	FULL	Front Side	10	0.444	0.121	0.018	0.583
		FULL	Back Side	10	0.966	0.228	0.033	1.227
		FULL	Left Edge	10	0.400	0.103	0.020	0.523
		FULL	Right Edge	10	0.423	0.000	0.000	0.423
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.101	0.000	0.000	0.101
LTE B25	ANT0	FULL	Front Side	10	0.439	0.121	0.018	0.578
		FULL	Back Side	10	1.103	0.228	0.033	1.364
		FULL	Left Edge	10	0.470	0.103	0.020	0.593
		FULL	Right Edge	10	0.152	0.000	0.000	0.152
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.743	0.000	0.000	0.743
LTE B26	ANT0	FULL	Front Side	10	0.362	0.121	0.018	0.501
		FULL	Back Side	10	0.955	0.228	0.033	1.216
		FULL	Left Edge	10	0.356	0.103	0.020	0.479
		FULL	Right Edge	10	0.340	0.000	0.000	0.340
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.046	0.000	0.000	0.046
LTE B66	ANT0	FULL	Front Side	10	0.247	0.121	0.018	0.386
		FULL	Back Side	10	1.113	0.228	0.033	1.374
		FULL	Left Edge	10	0.323	0.103	0.020	0.446
		FULL	Right Edge	10	0.099	0.000	0.000	0.099
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.650	0.000	0.000	0.650
LTE B71	ANT0	FULL	Front Side	10	0.320	0.121	0.018	0.459
		FULL	Back Side	10	0.759	0.228	0.033	1.020
		FULL	Left Edge	10	0.277	0.103	0.020	0.400
		FULL	Right Edge	10	0.287	0.000	0.000	0.287
		FULL	Top Edge	10	0.000	0.083	0.018	0.101
		FULL	Bottom Edge	10	0.080	0.000	0.000	0.080

Note1: The highest Summed 1g SAR is 1.374 W/Kg< 1.6 W/kg, so Simultaneous Transmission SAR test is not required.