

Annex F. SAR Test Result

SAR Results for Body Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.
2. SAR testing for LTE was performed on the maximum power mode.
3. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

SAR Test Result

System & Position								DUT	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
1	WCDMA II	HSUPA Subtest-5	Front Face	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	-0.03	0.809	0.95
	WCDMA II	HSUPA Subtest-5	Rear Face	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	-0.04	0.783	0.92
	WCDMA II	HSUPA Subtest-5	Left Side	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	-0.17	0.057	0.07
	WCDMA II	HSUPA Subtest-5	Right Side	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	-0.13	0.257	0.30
	WCDMA II	HSUPA Subtest-5	Top Side	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	0.16	0.581	0.69
	WCDMA II	HSUPA Subtest-5	Bottom Side	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	-0.11	0.072	0.08
	WCDMA II	HSUPA Subtest-5	Front Face	10	9400			Ant 1	-	1.00	22.00	21.15	1.22	0.13	0.773	0.94
	WCDMA II	HSUPA Subtest-5	Front Face	10	9538			Ant 1	-	1.00	22.00	21.23	1.19	0.02	0.77	0.92
	WCDMA II	HSUPA Subtest-5	Rear Face	10	9400			Ant 1	-	1.00	22.00	21.15	1.22	-0.05	0.738	0.90
	WCDMA II	HSUPA Subtest-5	Rear Face	10	9538			Ant 1	-	1.00	22.00	21.23	1.19	-0.17	0.725	0.86
	WCDMA II	HSUPA Subtest-5	Front Face	10	9262			Ant 1	-	1.00	22.00	21.27	1.18	0.08	0.797	0.94
	WCDMA V	HSUPA Subtest-5	Front Face	10	4132			Ant 2	-	1.00	21.50	21.46	1.01	-0.12	0.272	0.27
	WCDMA V	HSUPA Subtest-5	Rear Face	10	4132			Ant 2	-	1.00	21.50	21.46	1.01	0.15	0.208	0.21
	WCDMA V	HSUPA Subtest-5	Left Side	10	4132			Ant 2	-	1.00	21.50	21.46	1.01	0	<0.001	0.00
	WCDMA V	HSUPA Subtest-5	Right Side	10	4132			Ant 2	-	1.00	21.50	21.46	1.01	-0.18	0.046	0.05
	WCDMA V	HSUPA Subtest-5	Top Side	10	4132			Ant 2	-	1.00	21.50	21.46	1.01	-0.02	0.085	0.09
	WCDMA V	HSUPA Subtest-5	Bottom Side	10	4132			Ant 2	-	1.00	21.50	21.46	1.01	-0.08	0.049	0.05
	WCDMA V	HSUPA Subtest-5	Front Face	10	4182			Ant 2	-	1.00	21.50	21.43	1.02	-0.05	0.30	0.31
2	WCDMA V	HSUPA Subtest-5	Front Face	10	4233			Ant 2	-	1.00	21.50	21.28	1.05	-0.07	0.330	0.35
3	LTE 5	QPSK10M	Front Face	10	20525	1	0	Ant 2	-	1.00	24.30	23.27	1.27	-0.05	0.366	0.46
	LTE 5	QPSK10M	Rear Face	10	20525	1	0	Ant 2	-	1.00	24.30	23.27	1.27	0.01	0.309	0.39
	LTE 5	QPSK10M	Left Side	10	20525	1	0	Ant 2	-	1.00	24.30	23.27	1.27	0	<0.001	0.00
	LTE 5	QPSK10M	Right Side	10	20525	1	0	Ant 2	-	1.00	24.30	23.27	1.27	0.15	0.095	0.12
	LTE 5	QPSK10M	Top Side	10	20525	1	0	Ant 2	-	1.00	24.30	23.27	1.27	0.13	0.133	0.17
	LTE 5	QPSK10M	Bottom Side	10	20525	1	0	Ant 2	-	1.00	24.30	23.27	1.27	-0.02	0.077	0.10
	LTE 5	QPSK10M	Front Face	10	20525	25	0	Ant 2	-	1.00	23.30	22.23	1.28	0.17	0.287	0.37
	LTE 5	QPSK10M	Rear Face	10	20525	25	0	Ant 2	-	1.00	23.30	22.23	1.28	-0.04	0.244	0.31
	LTE 5	QPSK10M	Left Side	10	20525	25	0	Ant 2	-	1.00	23.30	22.23	1.28	0	<0.001	0.00
	LTE 5	QPSK10M	Right Side	10	20525	25	0	Ant 2	-	1.00	23.30	22.23	1.28	0.12	0.08	0.10
	LTE 5	QPSK10M	Top Side	10	20525	25	0	Ant 2	-	1.00	23.30	22.23	1.28	0.02	0.103	0.13
	LTE 5	QPSK10M	Bottom Side	10	20525	25	0	Ant 2	-	1.00	23.30	22.23	1.28	-0.11	0.067	0.09
	LTE 5	QPSK10M	Front Face	10	20450	1	0	Ant 2	-	1.00	24.30	23.23	1.28	0.03	0.293	0.38
	LTE 5	QPSK10M	Front Face	10	20600	1	0	Ant 2	-	1.00	24.30	23.21	1.29	0.13	0.323	0.42

SAR Test Result

System & Position								DUT	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
4	LTE 17	QPSK10M	Front Face	10	23790	1	0	Ant 2	-	1.00	24.30	23.34	1.25	-0.08	0.316	0.40
	LTE 17	QPSK10M	Rear Face	10	23790	1	0	Ant 2	-	1.00	24.30	23.34	1.25	-0.12	0.209	0.26
	LTE 17	QPSK10M	Left Side	10	23790	1	0	Ant 2	-	1.00	24.30	23.34	1.25	0	<0.001	0.00
	LTE 17	QPSK10M	Right Side	10	23790	1	0	Ant 2	-	1.00	24.30	23.34	1.25	0.03	0.075	0.09
	LTE 17	QPSK10M	Top Side	10	23790	1	0	Ant 2	-	1.00	24.30	23.34	1.25	0.16	0.095	0.12
	LTE 17	QPSK10M	Bottom Side	10	23790	1	0	Ant 2	-	1.00	24.30	23.34	1.25	-0.15	0.06	0.08
	LTE 17	QPSK10M	Front Face	10	23790	25	0	Ant 2	-	1.00	23.30	22.13	1.31	0.08	0.281	0.37
	LTE 17	QPSK10M	Rear Face	10	23790	25	0	Ant 2	-	1.00	23.30	22.13	1.31	-0.12	0.217	0.28
	LTE 17	QPSK10M	Left Side	10	23790	25	0	Ant 2	-	1.00	23.30	22.13	1.31	0	<0.001	0.00
	LTE 17	QPSK10M	Right Side	10	23790	25	0	Ant 2	-	1.00	23.30	22.13	1.31	0.16	0.082	0.11
	LTE 17	QPSK10M	Top Side	10	23790	25	0	Ant 2	-	1.00	23.30	22.13	1.31	0.13	0.092	0.12
	LTE 17	QPSK10M	Bottom Side	10	23790	25	0	Ant 2	-	1.00	23.30	22.13	1.31	-0.11	0.051	0.07
	LTE 17	QPSK10M	Front Face	10	23780	1	0	Ant 2	-	1.00	24.30	23.13	1.31	0.16	0.245	0.32
	LTE 17	QPSK10M	Front Face	10	23800	1	0	Ant 2	-	1.00	24.30	23.22	1.28	-0.01	0.27	0.35
5	WLAN2.4G	802.11b	Front Face	10	11			Ant 0	98.50	1.02	14.00	14.00	1.00	-0.12	0.03	0.03
	WLAN2.4G	802.11b	Rear Face	10	11			Ant 0	98.50	1.02	14.00	14.00	1.00	0.1	0.011	0.01
	WLAN2.4G	802.11b	Left Side	10	11			Ant 0	98.50	1.02	14.00	14.00	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	10	11			Ant 0	98.50	1.02	14.00	14.00	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	10	11			Ant 0	98.50	1.02	14.00	14.00	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	10	11			Ant 0	98.50	1.02	14.00	14.00	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Front Face	10	6			Ant 1	98.50	1.02	14.00	13.80	1.05	-0.14	0.083	0.09
	WLAN2.4G	802.11b	Rear Face	10	6			Ant 1	98.50	1.02	14.00	13.80	1.05	0.07	0.034	0.04
	WLAN2.4G	802.11b	Left Side	10	6			Ant 1	98.50	1.02	14.00	13.80	1.05	-0.18	0.012	0.01
	WLAN2.4G	802.11b	Right Side	10	6			Ant 1	98.50	1.02	14.00	13.80	1.05	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	10	6			Ant 1	98.50	1.02	14.00	13.80	1.05	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	10	6			Ant 1	98.50	1.02	14.00	13.80	1.05	0	<0.001	0.00
	WLAN2.4G	802.11b	Front Face	10	6			Ant 0+1	98.50	1.02	17.00	16.53	1.11	-0.06	0.069	0.08
	WLAN2.4G	802.11b	Rear Face	10	6			Ant 0+1	98.50	1.02	17.00	16.53	1.11	-0.07	0.028	0.03
WLAN2.4G	802.11b	Left Side	10	6			Ant 0+1	98.50	1.02	17.00	16.53	1.11	-0.08	0.00992	0.01	
WLAN2.4G	802.11b	Right Side	10	6			Ant 0+1	98.50	1.02	17.00	16.53	1.11	0	<0.001	0.00	
WLAN2.4G	802.11b	Top Side	10	6			Ant 0+1	98.50	1.02	17.00	16.53	1.11	0	<0.001	0.00	
WLAN2.4G	802.11b	Bottom Side	10	6			Ant 0+1	98.50	1.02	17.00	16.53	1.11	0	<0.001	0.00	
WLAN2.4G	802.11b	Front Face	10	1			Ant 1	98.50	1.02	14.00	13.64	1.09	-0.18	0.066	0.07	
WLAN2.4G	802.11b	Front Face	10	11			Ant 1	98.50	1.02	14.00	13.61	1.09	0.05	0.059	0.07	

SAR Test Result

System & Position								DUT	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	BT	LE	Front Face	10	19			Ant 0	61.20	1.63	1.00	-0.63	1.46	0	<0.001	0.00
	BT	LE	Rear Face	10	19			Ant 0	61.20	1.63	1.00	-0.63	1.46	0	<0.001	0.00
	BT	LE	Left Side	10	19			Ant 0	61.20	1.63	1.00	-0.63	1.46	0	<0.001	0.00
	BT	LE	Right Side	10	19			Ant 0	61.20	1.63	1.00	-0.63	1.46	0	<0.001	0.00
	BT	LE	Top Side	10	19			Ant 0	61.20	1.63	1.00	-0.63	1.46	0	<0.001	0.00
	BT	LE	Bottom Side	10	19			Ant 0	61.20	1.63	1.00	-0.63	1.46	0	<0.001	0.00
	BT	LE	Front Face	10	0			Ant 0	61.20	1.63	1.00	-0.87	1.54	0	<0.001	0.00
	BT	LE	Front Face	10	39			Ant 0	61.20	1.63	1.00	-0.9	1.55	0	<0.001	0.00