

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	14.42	15
		40	5200		14.61	15
		48	5240		14.39	15
	U-NII-2A	52	5260		14.57	15
		60	5300		14.64	15
		64	5320		14.62	15
	U-NII-2C	100	5500		14.2	16
		116	5580		14.45	16
		140	5700		15.35	16
	U-NII-3	149	5745		15.21	16
		157	5785		14.87	16
		165	5825		14.84	16
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	14.64	15
		40	5200		14.68	15
		48	5240		14.1	15
	U-NII-2A	52	5260		14.62	15
		60	5300		14.7	15
		64	5320		13.92	15
	U-NII-2C	100	5500		14.23	15
		116	5580		14.49	15
		140	5700		14.01	15
	U-NII-3	149	5745		15.28	16
		157	5785		14.9	16
		165	5825		14.33	16
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	13.23	14
		46	5230		15.18	16
	U-NII-2A	54	5270		15.52	16
		62	5310		15.26	16
	U-NII-2C	102	5510		15.77	16
		110	5550		15.04	16
		134	5670		15.75	16
	U-NII-3	151	5755		15.41	16
		159	5795		15.34	16



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 20M	U-NII-1	36	5180	MCS0	15.17	16
		40	5200		15.26	16
		48	5240		14.63	16
	U-NII-2A	52	5260		15.1	16
		60	5300		15.22	16
		64	5320		14.9	16
	U-NII-2C	100	5500		14.66	16
		116	5580		14.96	16
		140	5700		15.42	16
	U-NII-3	149	5745		15.75	16
		157	5785		15.4	16
		165	5825		14.92	16
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 40M	U-NII-1	38	5190	MCS0	13.43	14
		46	5230		15.57	16
	U-NII-2A	54	5270		15.91	16
		62	5310		14.92	16
	U-NII-2C	102	5510		15.96	17
		110	5550		15.83	17
		134	5670		16.24	17
	U-NII-3	151	5755		16.36	17
		159	5795		16.24	17
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	13.68	14
	U-NII-2A	58	5290		13.88	14
	U-NII-2C	106	5530		13.87	15
		122	5610		14.24	15
	U-NII-3	155	5775		15.12	16

7.1.3 Conducted Power Of BT

BT			Average Conducted Power(dBm)	Tune up (dBm)
Modulation	Channel	Frequency(MHz)		
GFSK	0	2402	7.32	9
	39	2441	8.53	10
	78	2480	9.12	11
$\pi/4$ DQPSK	0	2402	8.23	9
	39	2441	9.42	10
	78	2480	10.02	11
8DPSK	0	2402	8.36	9
	39	2441	9.56	10
	78	2480	10.04	11

BLE			Average Conducted Power(dBm)	Tune up (dBm)
Modulation	Channel	Frequency(MHz)		
GFSK	0	2402	0.35	2
	19	2440	1.23	2
	39	2480	1.2	2

7.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D04, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

- 3) “*” is repeated measurement.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.





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7.2.1 SAR Result Of LTE Band 2

LTE Band 2 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB_0	18900/1880	1:1	0.079	0.041	0.02	23.1	23.5	1.094	0.086	0.045	22.3	1.6
Front side	20M_QPSK 50RB_0	18900/1880	1:1	0.065	0.032	0.09	22.0	23.0	1.259	0.082	0.040	22.3	1.6
Back side	20M_QPSK 1RB_0	18900/1880	1:1	0.213	0.113	0.03	23.1	23.5	1.094	0.233	0.124	22.3	1.6
Back side	20M_QPSK 50RB_0	18900/1880	1:1	0.139	0.078	-0.12	22.0	23.0	1.259	0.175	0.098	22.3	1.6
Left side	20M_QPSK 1RB_0	18900/1880	1:1	0.057	0.033	0.03	23.1	23.5	1.094	0.062	0.036	22.3	1.6
Left side	20M_QPSK 50RB_0	18900/1880	1:1	0.048	0.022	0.16	22.0	23.0	1.259	0.060	0.028	22.3	1.6
Right side	20M_QPSK 1RB_0	18900/1880	1:1	0.148	0.085	-0.14	23.1	23.5	1.094	0.162	0.093	22.3	1.6
Right side	20M_QPSK 50RB_0	18900/1880	1:1	0.126	0.071	0.19	22.0	23.0	1.259	0.159	0.089	22.3	1.6
Top side	20M_QPSK 1RB_0	18900/1880	1:1	0.031	0.015	0.03	23.1	23.5	1.094	0.034	0.016	22.3	1.6
Top side	20M_QPSK 50RB_0	18900/1880	1:1	0.024	0.012	0.18	22.0	23.0	1.259	0.030	0.015	22.3	1.6
Bottom side	20M_QPSK 1RB_0	18900/1880	1:1	0.096	0.044	-0.13	23.1	23.5	1.094	0.105	0.049	22.3	1.6
Bottom side	20M_QPSK 50RB_0	18900/1880	1:1	0.078	0.036	0.03	22.0	23.0	1.259	0.098	0.045	22.3	1.6
Back side	20M_QPSK 1RB_0	18700/1860	1:1	0.198	0.088	0.06	22.9	23.5	1.146	0.227	0.101	22.3	1.6
Back side	20M_QPSK 1RB_0	19100/1900	1:1	0.186	0.075	0.11	23.1	23.5	1.096	0.204	0.082	22.3	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	20M_QPSK 1RB_0	18900/1880	1:1	0.189	0.099	0.09	23.1	23.5	1.094	0.207	0.108	22.3	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB_0	18900/1880	1:1	0.328	0.173	0.06	23.1	23.5	1.094	0.359	0.189	22.3	4
Front side	20M_QPSK 50RB_0	18900/1880	1:1	0.267	0.140	-0.07	22.0	23.0	1.259	0.336	0.176	22.3	4
Back side	20M_QPSK 1RB_0	18900/1880	1:1	0.591	0.293	0.08	23.1	23.5	1.094	0.647	0.321	22.3	4
Back side	20M_QPSK 50RB_0	18900/1880	1:1	0.477	0.235	0.05	22.0	23.0	1.259	0.601	0.296	22.3	4
Left side	20M_QPSK 1RB_0	18900/1880	1:1	0.214	0.104	0.15	23.1	23.5	1.094	0.234	0.114	22.3	4
Left side	20M_QPSK 50RB_0	18900/1880	1:1	0.173	0.084	0.1	22.0	23.0	1.259	0.218	0.106	22.3	4
Right side	20M_QPSK 1RB_0	18900/1880	1:1	0.703	0.337	-0.04	23.1	23.5	1.094	0.769	0.369	22.3	4
Right side	20M_QPSK 50RB_0	18900/1880	1:1	0.571	0.277	0.09	22.0	23.0	1.259	0.719	0.349	22.3	4
Top side	20M_QPSK 1RB_0	18900/1880	1:1	0.075	0.034	0.19	23.1	23.5	1.094	0.082	0.037	22.3	4
Top side	20M_QPSK 50RB_0	18900/1880	1:1	0.068	0.029	-0.08	22.0	23.0	1.259	0.086	0.037	22.3	4
Bottom side	20M_QPSK 1RB_0	18900/1880	1:1	0.309	0.168	0.17	23.1	23.5	1.094	0.338	0.184	22.3	4
Bottom side	20M_QPSK 50RB_0	18900/1880	1:1	0.297	0.162	-0.16	22.0	23.0	1.259	0.374	0.204	22.3	4
Right side	20M_QPSK 1RB_0	18700/1860	1:1	0.675	0.315	0.08	22.9	23.5	1.146	0.773	0.361	22.3	4
Right side	20M_QPSK 1RB_0	19100/1900	1:1	0.674	0.314	-0.18	23.1	23.5	1.096	0.739	0.344	22.3	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Right side	20M_QPSK 1RB_0	18900/1880	1:1	0.7	0.331	-0.16	23.1	23.5	1.094	0.766	0.362	22.3	4



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7.2.2 SAR Result Of LTE Band 4

LTE Band 4 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scale d factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.157	0.101	-0.03	22.65	23	1.084	0.170	0.109	22.2	1.6
Front side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.146	0.086	-0.07	21.53	22	1.114	0.163	0.096	22.2	1.6
Back side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.670	0.383	-0.16	22.65	23	1.084	0.726	0.415	22.2	1.6
Back side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.621	0.316	-0.03	21.53	22	1.114	0.692	0.352	22.2	1.6
Left side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.148	0.087	-0.04	22.65	23	1.084	0.160	0.094	22.2	1.6
Left side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.116	0.072	-0.17	21.53	22	1.114	0.129	0.080	22.2	1.6
Right side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.321	0.19	-0.09	22.65	23	1.084	0.348	0.206	22.2	1.6
Right side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.286	0.167	-0.1	21.53	22	1.114	0.319	0.186	22.2	1.6
Top side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.064	0.029	0.16	22.65	23	1.084	0.069	0.031	22.2	1.6
Top side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.046	0.011	-0.11	21.53	22	1.114	0.051	0.012	22.2	1.6
Bottom side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.356	0.209	0.17	22.65	23	1.084	0.386	0.227	22.2	1.6
Bottom side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.311	0.111	-0.08	21.53	22	1.114	0.347	0.124	22.2	1.6
Back side	20M_QPSK 1RB 50	20300/1745	1:1	0.638	0.368	0.05	22.52	23	1.117	0.713	0.411	22.2	1.6
Back side	20M_QPSK 1RB 50	20050/1720	1:1	0.342	0.371	-0.09	22.49	23	1.125	0.385	0.417	22.2	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.659	0.374	0.17	22.65	23	1.084	0.714	0.405	22.2	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.73	0.422	0.14	22.65	23	1.084	0.791	0.457	22.2	4
Front side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.689	0.398	0.09	21.53	22	1.114	0.768	0.443	22.2	4
Back side	20M_QPSK 1RB 50	20175/1732.5	1:1	2.05	1.03	-0.07	22.65	23	1.084	2.222	1.116	22.2	4
Back side	20M_QPSK 50RB 0	20175/1732.5	1:1	1.87	0.972	-0.15	21.53	22	1.114	2.084	1.083	22.2	4
Left side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.351	0.192	-0.09	22.65	23	1.084	0.380	0.208	22.2	4
Left side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.336	0.179	-0.08	21.53	22	1.114	0.374	0.199	22.2	4
Right side	20M_QPSK 1RB 50	20175/1732.5	1:1	1.23	0.648	-0.1	22.65	23	1.084	1.333	0.702	22.2	4
Right side	20M_QPSK 50RB 0	20175/1732.5	1:1	1.12	0.621	-0.17	21.53	22	1.114	1.248	0.692	22.2	4
Top side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.112	0.052	-0.12	22.65	23	1.084	0.121	0.056	22.2	4
Top side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.101	0.049	0.08	21.53	22	1.114	0.113	0.055	22.2	4
Bottom side	20M_QPSK 1RB 50	20175/1732.5	1:1	0.864	0.512	-0.15	22.65	23	1.084	0.937	0.555	22.2	4
Bottom side	20M_QPSK 50RB 0	20175/1732.5	1:1	0.842	0.489	0.02	21.53	22	1.114	0.938	0.545	22.2	4
Back side	20M_QPSK 1RB 50	20300/1745	1:1	1.86	0.875	0.14	22.52	23	1.117	2.077	0.977	22.2	4
Back side	20M_QPSK 1RB 50	20050/1720	1:1	1.89	0.889	-0.09	22.49	23	1.125	2.126	1.000	22.2	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	20M_QPSK 1RB 50	20175/1732.5	1:1	2.01	0.999	0.11	22.65	23	1.084	2.179	1.083	22.2	4



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7.2.3 SAR Result Of LTE Band 5

LTE Band 5 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	10M_QPSK 1RB_0	20525/836.5	1:1	0.112	0.078	0.14	23.1	23.5	1.096	0.123	0.086	22.1	1.6
Front side	10M_QPSK 25RB_0	20525/836.5	1:1	0.101	0.064	0.09	22.32	23.0	1.169	0.118	0.075	22.1	1.6
Back side	10M_QPSK 1RB_0	20525/836.5	1:1	0.361	0.204	0.05	23.1	23.5	1.096	0.396	0.224	22.1	1.6
Back side	10M_QPSK 25RB_0	20525/836.5	1:1	0.336	0.176	0.04	22.32	23.0	1.169	0.393	0.206	22.1	1.6
Left side	10M_QPSK 1RB_0	20525/836.5	1:1	0.045	0.023	0.05	23.1	23.5	1.096	0.049	0.025	22.1	1.6
Left side	10M_QPSK 25RB_0	20525/836.5	1:1	0.031	0.019	-0.13	22.32	23.0	1.169	0.036	0.022	22.1	1.6
Right side	10M_QPSK 1RB_0	20525/836.5	1:1	0.062	0.043	0.16	23.1	23.5	1.096	0.068	0.047	22.1	1.6
Right side	10M_QPSK 25RB_0	20525/836.5	1:1	0.041	0.026	0.09	22.32	23.0	1.169	0.048	0.030	22.1	1.6
Top side	10M_QPSK 1RB_0	20525/836.5	1:1	0.010	0.003	-0.04	23.1	23.5	1.096	0.011	0.003	22.1	1.6
Top side	10M_QPSK 25RB_0	20525/836.5	1:1	0.005	0.001	0.08	22.32	23.0	1.169	0.006	0.001	22.1	1.6
Bottom side	10M_QPSK 1RB_0	20525/836.5	1:1	0.181	0.111	-0.16	23.1	23.5	1.096	0.198	0.122	22.1	1.6
Bottom side	10M_QPSK 25RB_0	20525/836.5	1:1	0.168	0.101	-0.06	22.32	23.0	1.169	0.196	0.118	22.1	1.6
Back side	10M_QPSK 1RB_0	20450/829	1:1	0.168	0.101	-0.19	23.09	23.5	1.099	0.185	0.111	22.1	1.6
Back side	10M_QPSK 1RB_0	20600/844	1:1	0.168	0.101	0.11	23.04	23.5	1.112	0.187	0.112	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	10M_QPSK 1RB_0	20525/836.5	1:1	0.354	0.198	0.11	23.1	23.5	1.096	0.388	0.217	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	10M_QPSK 1RB_0	20525/836.5	1:1	0.32	0.209	-0.18	23.10	23.5	1.096	0.351	0.229	22.1	4
Front side	10M_QPSK 25RB_0	20525/836.5	1:1	0.298	0.175	0.07	22.32	23.0	1.169	0.349	0.205	22.1	4
Back side	10M_QPSK 1RB_0	20525/836.5	1:1	0.871	0.451	0.01	23.10	23.5	1.096	0.955	0.495	22.1	4
Back side	10M_QPSK 25RB_0	20525/836.5	1:1	0.854	0.446	0.14	22.32	23.0	1.169	0.999	0.522	22.1	4
Left side	10M_QPSK 1RB_0	20525/836.5	1:1	0.84	0.43	-0.08	23.10	23.5	1.096	0.921	0.471	22.1	4
Left side	10M_QPSK 25RB_0	20525/836.5	1:1	0.831	0.428	0.18	22.32	23.0	1.169	0.972	0.501	22.1	4
Right side	10M_QPSK 1RB_0	20525/836.5	1:1	0.162	0.096	-0.15	23.10	23.5	1.096	0.178	0.105	22.1	4
Right side	10M_QPSK 25RB_0	20525/836.5	1:1	0.154	0.085	-0.16	22.32	23.0	1.169	0.180	0.099	22.1	4
Top side	10M_QPSK 1RB_0	20525/836.5	1:1	0.031	0.014	-0.06	23.10	23.5	1.096	0.034	0.015	22.1	4
Top side	10M_QPSK 25RB_0	20525/836.5	1:1	0.028	0.011	0.11	22.32	23.0	1.169	0.033	0.013	22.1	4
Bottom side	10M_QPSK 1RB_0	20525/836.5	1:1	0.701	0.403	0.16	23.10	23.5	1.096	0.769	0.442	22.1	4
Bottom side	10M_QPSK 25RB_0	20525/836.5	1:1	0.684	0.385	0.17	22.32	23.0	1.169	0.800	0.450	22.1	4
Back side	10M_QPSK 25RB_0	20450/829	1:1	0.871	0.453	0.01	22.16	23.0	1.213	1.057	0.550	22.1	4
Back side	10M_QPSK 25RB_0	20600/844	1:1	0.842	0.437	0.14	22.10	23.0	1.230	1.036	0.538	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	10M_QPSK 25RB_0	20450/829	1:1	0.862	0.45	0.19	22.16	23.0	1.213	1.046	0.546	22.1	4



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7.2.4 SAR Result Of LTE Band 7

LTE Band 7 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB_0	20850/2510	1:1	0.042	0.012	0.03	23.10	23.50	1.096	0.046	0.013	22.1	1.6
Front side	20M_QPSK 50RB_0	20850/2510	1:1	0.031	0.010	-0.13	21.99	23.00	1.262	0.039	0.013	22.1	1.6
Back side	20M_QPSK 1RB_0	20850/2510	1:1	0.500	0.250	-0.03	23.10	23.50	1.096	0.548	0.274	22.1	1.6
Back side	20M_QPSK 50RB_0	20850/2510	1:1	0.486	0.242	0.09	21.99	23.00	1.262	0.613	0.305	22.1	1.6
Left side	20M_QPSK 1RB_0	20850/2510	1:1	0.047	0.019	-0.16	23.10	23.50	1.096	0.052	0.020	22.1	1.6
Left side	20M_QPSK 50RB_0	20850/2510	1:1	0.035	0.010	0.16	21.99	23.00	1.262	0.044	0.013	22.1	1.6
Right side	20M_QPSK 1RB_0	20850/2510	1:1	0.152	0.085	-0.17	23.10	23.50	1.096	0.167	0.093	22.1	1.6
Right side	20M_QPSK 50RB_0	20850/2510	1:1	0.143	0.069	-0.1	21.99	23.00	1.262	0.180	0.087	22.1	1.6
Top side	20M_QPSK 1RB_0	20850/2510	1:1	0.032	0.013	0.06	23.10	23.50	1.096	0.035	0.014	22.1	1.6
Top side	20M_QPSK 50RB_0	20850/2510	1:1	0.028	0.009	0.13	21.99	23.00	1.262	0.035	0.011	22.1	1.6
Bottom side	20M_QPSK 1RB_0	20850/2510	1:1	0.212	0.104	-0.11	23.10	23.50	1.096	0.232	0.114	22.1	1.6
Bottom side	20M_QPSK 50RB_0	20850/2510	1:1	0.201	0.086	0.11	21.99	23.00	1.262	0.254	0.109	22.1	1.6
Back side	20M_QPSK 50RB_0	21100/2535.5	1:1	0.473	0.236	0.17	21.89	23.00	1.291	0.611	0.305	22.1	1.6
Back side	20M_QPSK 50RB_0	21350/2560	1:1	0.462	0.222	-0.13	21.80	23.00	1.318	0.609	0.293	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	20M_QPSK 50RB_0	20850/2510	1:1	0.482	0.24	-0.06	21.99	23.00	1.262	0.608	0.303	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB_0	20850/2510	1:1	0.294	0.154	0.03	23.10	23.50	1.096	0.322	0.169	22.1	4
Front side	20M_QPSK 50RB_0	20850/2510	1:1	0.286	0.149	-0.19	21.99	23.00	1.262	0.361	0.188	22.1	4
Back side	20M_QPSK 1RB_0	20850/2510	1:1	1.57	0.725	-0.12	23.10	23.50	1.096	1.721	0.795	22.1	4
Back side	20M_QPSK 50RB_0	20850/2510	1:1	1.45	0.716	0.08	21.99	23.00	1.262	1.830	0.903	22.1	4
Left side	20M_QPSK 1RB_0	20850/2510	1:1	0.114	0.051	-0.05	23.10	23.50	1.096	0.125	0.056	22.1	4
Left side	20M_QPSK 50RB_0	20850/2510	1:1	0.108	0.046	-0.16	21.99	23.00	1.262	0.136	0.058	22.1	4
Right side	20M_QPSK 1RB_0	20850/2510	1:1	0.738	0.357	-0.03	23.10	23.50	1.096	0.809	0.391	22.1	4
Right side	20M_QPSK 50RB_0	20850/2510	1:1	0.726	0.349	-0.07	21.99	23.00	1.262	0.916	0.440	22.1	4
Top side	20M_QPSK 1RB_0	20850/2510	1:1	0.087	0.046	0.09	23.10	23.50	1.096	0.095	0.050	22.1	4
Top side	20M_QPSK 50RB_0	20850/2510	1:1	0.076	0.039	0.1	21.99	23.00	1.262	0.096	0.049	22.1	4
Bottom side	20M_QPSK 1RB_0	20850/2510	1:1	1.49	0.616	-0.01	23.10	23.50	1.096	1.634	0.675	22.1	4
Bottom side	20M_QPSK 50RB_0	20850/2510	1:1	1.35	0.598	-0.15	21.99	23.00	1.262	1.703	0.755	22.1	4
Back side	20M_QPSK 50RB_0	21100/2535.5	1:1	1.46	0.698	0.19	21.89	23.00	1.291	1.885	0.901	22.1	4
Back side	20M_QPSK 50RB_0	21350/2560	1:1	1.33	0.676	-0.05	21.80	23.00	1.318	1.753	0.891	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	20M_QPSK 50RB_0	20850/2510	1:1	1.45	0.71	0.03	21.99	23.00	1.262	1.830	0.896	22.1	4



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7.2.5 SAR Result Of LTE Band 12

LTE Band 12 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	10M_QPSK 1RB_0	23060/704	1:1	0.087	0.063	0.06	23.01	23.5	1.119	0.098	0.070	22.1	1.6
Front side	10M_QPSK 25RB_0	23060/704	1:1	0.079	0.056	-0.07	21.91	22.5	1.146	0.090	0.064	22.1	1.6
Back side	10M_QPSK 1RB_0	23060/704	1:1	0.140	0.110	-0.02	23.01	23.5	1.119	0.157	0.123	22.1	1.6
Back side	10M_QPSK 25RB_0	23060/704	1:1	0.132	0.101	-0.1	21.91	22.5	1.146	0.151	0.116	22.1	1.6
Left side	10M_QPSK 1RB_0	23060/704	1:1	0.071	0.050	0.09	23.01	23.5	1.119	0.080	0.056	22.1	1.6
Left side	10M_QPSK 25RB_0	23060/704	1:1	0.064	0.038	0.09	21.91	22.5	1.146	0.073	0.044	22.1	1.6
Right side	10M_QPSK 1RB_0	23060/704	1:1	0.115	0.079	-0.15	23.01	23.5	1.119	0.129	0.089	22.1	1.6
Right side	10M_QPSK 25RB_0	23060/704	1:1	0.098	0.065	0.01	21.91	22.5	1.146	0.112	0.074	22.1	1.6
Top side	10M_QPSK 1RB_0	23060/704	1:1	0.023	0.009	-0.02	23.01	23.5	1.119	0.026	0.010	22.1	1.6
Top side	10M_QPSK 25RB_0	23060/704	1:1	0.015	0.002	-0.04	21.91	22.5	1.146	0.017	0.002	22.1	1.6
Bottom side	10M_QPSK 1RB_0	23060/704	1:1	0.058	0.034	0.17	23.01	23.5	1.119	0.065	0.038	22.1	1.6
Bottom side	10M_QPSK 25RB_0	23060/704	1:1	0.058	0.034	-0.07	21.91	22.5	1.146	0.067	0.039	22.1	1.6
Back side	10M_QPSK 1RB_0	23095/707.5	1:1	0.134	0.098	-0.04	22.94	23.5	1.138	0.152	0.111	22.1	1.6
Back side	10M_QPSK 1RB_0	23130/711	1:1	0.131	0.095	0.16	22.98	23.5	1.127	0.148	0.107	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	10M_QPSK 1RB_0	23060/704	1:1	0.139	0.109	-0.06	23.01	23.5	1.119	0.156	0.122	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	10M_QPSK 1RB_0	23060/704	1:1	0.163	0.104	-0.01	23.01	23.5	1.119	0.182	0.116	22.1	4
Front side	10M_QPSK 25RB_0	23060/704	1:1	0.159	0.098	-0.11	21.91	22.5	1.146	0.182	0.112	22.1	4
Back side	10M_QPSK 1RB_0	23060/704	1:1	0.487	0.273	-0.1	23.01	23.5	1.119	0.545	0.306	22.1	4
Back side	10M_QPSK 25RB_0	23060/704	1:1	0.472	0.262	-0.19	21.91	22.5	1.146	0.541	0.300	22.1	4
Left side	10M_QPSK 1RB_0	23060/704	1:1	0.214	0.122	-0.16	23.01	23.5	1.119	0.240	0.137	22.1	4
Left side	10M_QPSK 25RB_0	23060/704	1:1	0.198	0.116	-0.01	21.91	22.5	1.146	0.227	0.133	22.1	4
Right side	10M_QPSK 1RB_0	23060/704	1:1	0.097	0.060	0.11	23.01	23.5	1.119	0.109	0.067	22.1	4
Right side	10M_QPSK 25RB_0	23060/704	1:1	0.085	0.051	-0.13	21.91	22.5	1.146	0.097	0.058	22.1	4
Top side	10M_QPSK 1RB_0	23060/704	1:1	0.034	0.016	-0.19	23.01	23.5	1.119	0.038	0.018	22.1	4
Top side	10M_QPSK 25RB_0	23060/704	1:1	0.029	0.009	-0.09	21.91	22.5	1.146	0.033	0.010	22.1	4
Bottom side	10M_QPSK 1RB_0	23060/704	1:1	0.292	0.164	0.07	23.01	23.5	1.119	0.327	0.184	22.1	4
Bottom side	10M_QPSK 25RB_0	23060/704	1:1	0.275	0.153	0.1	21.91	22.5	1.146	0.315	0.175	22.1	4
Back side	10M_QPSK 1RB_0	23095/707.5	1:1	0.476	0.262	-0.09	22.94	23.5	1.138	0.542	0.298	22.1	4
Back side	10M_QPSK 1RB_0	23130/711	1:1	0.472	0.255	-0.05	22.98	23.5	1.127	0.532	0.287	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	10M_QPSK 1RB_0	23060/704	1:1	0.485	0.27	0.12	23.01	23.5	1.119	0.543	0.302	22.1	4



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7.2.6 SAR Result Of LTE Band 13

LTE Band 13 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	10M_QPSK 1RB_0	23230/782	1:1	0.099	0.069	-0.1	23.15	23.5	1.084	0.107	0.075	22.1	1.6
Front side	10M_QPSK 25RB_0	23230/782	1:1	0.086	0.065	0.06	22.13	23	1.222	0.105	0.079	22.1	1.6
Back side	10M_QPSK 1RB_0	23230/782	1:1	0.210	0.121	0.1	23.15	23.5	1.084	0.228	0.131	22.1	1.6
Back side	10M_QPSK 25RB_0	23230/782	1:1	0.186	0.102	-0.09	22.13	23	1.222	0.227	0.125	22.1	1.6
Left side	10M_QPSK 1RB_0	23230/782	1:1	0.107	0.073	0.19	23.15	23.5	1.084	0.116	0.079	22.1	1.6
Left side	10M_QPSK 25RB_0	23230/782	1:1	0.094	0.064	-0.05	22.13	23	1.222	0.115	0.078	22.1	1.6
Right side	10M_QPSK 1RB_0	23230/782	1:1	0.070	0.048	-0.14	23.15	23.5	1.084	0.075	0.052	22.1	1.6
Right side	10M_QPSK 25RB_0	23230/782	1:1	0.059	0.036	-0.17	22.13	23	1.222	0.072	0.044	22.1	1.6
Top side	10M_QPSK 1RB_0	23230/782	1:1	0.011	0.006	0.02	23.15	23.5	1.084	0.012	0.007	22.1	1.6
Top side	10M_QPSK 25RB_0	23230/782	1:1	0.009	0.002	0.02	22.13	23	1.222	0.011	0.002	22.1	1.6
Bottom side	10M_QPSK 1RB_0	23230/782	1:1	0.108	0.064	0.03	23.15	23.5	1.084	0.117	0.070	22.1	1.6
Bottom side	10M_QPSK 25RB_0	23230/782	1:1	0.092	0.043	-0.07	22.13	23	1.222	0.112	0.053	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	10M_QPSK 1RB_0	23230/782	1:1	0.205	0.116	-0.11	23.15	23.5	1.084	0.222	0.126	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	10M_QPSK 1RB_0	23230/782	1:1	0.254	0.171	-0.18	23.15	23.5	1.084	0.275	0.185	22.1	4
Front side	10M_QPSK 25RB_0	23230/782	1:1	0.243	0.162	0.12	22.13	23	1.222	0.297	0.198	22.1	4
Back side	10M_QPSK 1RB_0	23230/782	1:1	0.847	0.449	0.02	23.15	23.5	1.084	0.918	0.487	22.1	4
Back side	10M_QPSK 25RB_0	23230/782	1:1	0.831	0.432	0.08	22.13	23	1.222	1.015	0.528	22.1	4
Left side	10M_QPSK 1RB_0	23230/782	1:1	0.662	0.342	-0.16	23.15	23.5	1.084	0.718	0.371	22.1	4
Left side	10M_QPSK 25RB_0	23230/782	1:1	0.653	0.337	0.14	22.13	23	1.222	0.798	0.412	22.1	4
Right side	10M_QPSK 1RB_0	23230/782	1:1	0.155	0.091	0.19	23.15	23.5	1.084	0.168	0.099	22.1	4
Right side	10M_QPSK 25RB_0	23230/782	1:1	0.142	0.082	-0.03	22.13	23	1.222	0.173	0.100	22.1	4
Top side	10M_QPSK 1RB_0	23230/782	1:1	0.035	0.012	-0.06	23.15	23.5	1.084	0.038	0.013	22.1	4
Top side	10M_QPSK 25RB_0	23230/782	1:1	0.024	0.006	-0.19	22.13	23	1.222	0.029	0.007	22.1	4
Bottom side	10M_QPSK 1RB_0	23230/782	1:1	0.779	0.398	0.15	23.15	23.5	1.084	0.844	0.431	22.1	4
Bottom side	10M_QPSK 25RB_0	23230/782	1:1	0.762	0.375	-0.08	22.13	23	1.222	0.931	0.458	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	10M_QPSK 25RB_0	23230/782	1:1	0.826	0.429	-0.01	22.13	23	1.222	1.009	0.524	22.1	4



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7.2.7 SAR Result Of LTE Band 14

LTE Band 14 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	10M_QPSK 1RB_0	23330/793	1:1	0.121	0.084	0.17	22.84	23	1.038	0.126	0.087	22.1	1.6
Front side	10M_QPSK 25RB_0	23330/793	1:1	0.116	0.076	0.05	21.68	22	1.076	0.125	0.082	22.1	1.6
Back side	10M_QPSK 1RB_0	23330/793	1:1	0.208	0.123	0.1	22.84	23	1.038	0.216	0.128	22.1	1.6
Back side	10M_QPSK 25RB_0	23330/793	1:1	0.196	0.112	0.18	21.68	22	1.076	0.211	0.121	22.1	1.6
Left side	10M_QPSK 1RB_0	23330/793	1:1	0.147	0.100	-0.11	22.84	23	1.038	0.153	0.104	22.1	1.6
Left side	10M_QPSK 25RB_0	23330/793	1:1	0.138	0.094	-0.08	21.68	22	1.076	0.149	0.101	22.1	1.6
Right side	10M_QPSK 1RB_0	23330/793	1:1	0.078	0.054	0.06	22.84	23	1.038	0.081	0.056	22.1	1.6
Right side	10M_QPSK 25RB_0	23330/793	1:1	0.069	0.042	0.17	21.68	22	1.076	0.074	0.045	22.1	1.6
Top side	10M_QPSK 1RB_0	23330/793	1:1	0.023	0.011	0.19	22.84	23	1.038	0.024	0.011	22.1	1.6
Top side	10M_QPSK 25RB_0	23330/793	1:1	0.019	0.007	0.15	21.68	22	1.076	0.020	0.008	22.1	1.6
Bottom side	10M_QPSK 1RB_0	23330/793	1:1	0.106	0.065	-0.01	22.84	23	1.038	0.110	0.067	22.1	1.6
Bottom side	10M_QPSK 25RB_0	23330/793	1:1	0.086	0.046	0.13	21.68	22	1.076	0.093	0.050	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	10M_QPSK 1RB_0	23330/793	1:1	0.201	0.119	-0.19	22.84	23	1.038	0.209	0.123	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	10M_QPSK 1RB_0	23330/793	1:1	0.272	0.178	0.06	22.84	23	1.038	0.282	0.185	22.1	4
Front side	10M_QPSK 25RB_0	23330/793	1:1	0.260	0.165	0.02	21.68	22	1.076	0.280	0.178	22.1	4
Back side	10M_QPSK 1RB_0	23330/793	1:1	0.864	0.458	0.04	22.84	23	1.038	0.896	0.475	22.1	4
Back side	10M_QPSK 25RB_0	23330/793	1:1	0.830	0.440	0.05	21.68	22	1.076	0.893	0.474	22.1	4
Left side	10M_QPSK 1RB_0	23330/793	1:1	0.721	0.362	0.17	22.84	23	1.038	0.748	0.376	22.1	4
Left side	10M_QPSK 25RB_0	23330/793	1:1	0.678	0.334	-0.16	21.68	22	1.076	0.730	0.360	22.1	4
Right side	10M_QPSK 1RB_0	23330/793	1:1	0.217	0.093	0.09	22.84	23	1.038	0.225	0.096	22.1	4
Right side	10M_QPSK 25RB_0	23330/793	1:1	0.189	0.076	-0.08	21.68	22	1.076	0.203	0.082	22.1	4
Top side	10M_QPSK 1RB_0	23330/793	1:1	0.033	0.016	0.16	22.84	23	1.038	0.034	0.017	22.1	4
Top side	10M_QPSK 25RB_0	23330/793	1:1	0.029	0.010	-0.06	21.68	22	1.076	0.031	0.011	22.1	4
Bottom side	10M_QPSK 1RB_0	23330/793	1:1	0.726	0.385	-0.12	22.84	23	1.038	0.753	0.399	22.1	4
Bottom side	10M_QPSK 25RB_0	23330/793	1:1	0.704	0.370	-0.09	21.68	22	1.076	0.758	0.398	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	10M_QPSK 1RB_0	23330/793	1:1	0.862	0.449	0.17	22.84	23	1.038	0.894	0.466	22.1	4



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7.2.8 SAR Result Of LTE Band 17

LTE Band 17 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	10M_QPSK 1RB_0	23800/711	1:1	0.113	0.081	-0.13	22.95	23	1.012	0.114	0.081	22.1	1.6
Front side	10M_QPSK 25RB_25	23800/711	1:1	0.098	0.076	0.12	21.93	22	1.016	0.100	0.077	22.1	1.6
Back side	10M_QPSK 1RB_0	23800/711	1:1	0.162	0.126	0.08	22.95	23	1.012	0.164	0.127	22.1	1.6
Back side	10M_QPSK 25RB_25	23800/711	1:1	0.155	0.119	0.03	21.93	22	1.016	0.158	0.121	22.1	1.6
Left side	10M_QPSK 1RB_0	23800/711	1:1	0.095	0.065	0.02	22.95	23	1.012	0.096	0.066	22.1	1.6
Left side	10M_QPSK 25RB_25	23800/711	1:1	0.086	0.058	0.08	21.93	22	1.016	0.087	0.059	22.1	1.6
Right side	10M_QPSK 1RB_0	23800/711	1:1	0.133	0.092	-0.19	22.95	23	1.012	0.135	0.093	22.1	1.6
Right side	10M_QPSK 25RB_25	23800/711	1:1	0.126	0.084	0.03	21.93	22	1.016	0.128	0.085	22.1	1.6
Top side	10M_QPSK 1RB_0	23800/711	1:1	0.023	0.011	-0.11	22.95	23	1.012	0.023	0.011	22.1	1.6
Top side	10M_QPSK 25RB_25	23800/711	1:1	0.011	0.006	-0.11	21.93	22	1.016	0.011	0.006	22.1	1.6
Bottom side	10M_QPSK 1RB_0	23800/711	1:1	0.054	0.034	0.1	22.95	23	1.012	0.054	0.034	22.1	1.6
Bottom side	10M_QPSK 25RB_25	23800/711	1:1	0.042	0.029	0.14	21.93	22	1.016	0.043	0.029	22.1	1.6
Back side	10M_QPSK 1RB_0	23780/709	1:1	0.142	0.116	0.06	22.89	23	1.026	0.146	0.119	22.1	1.6
Back side	10M_QPSK 1RB_0	23790/710	1:1	0.139	0.110	-0.06	22.91	23	1.021	0.142	0.112	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	10M_QPSK 1RB_0	23800/711	1:1	0.159	0.116	-0.05	22.95	23	1.012	0.161	0.117	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	10M_QPSK 1RB_0	23800/711	1:1	0.157	0.107	-0.08	22.95	23	1.012	0.159	0.108	22.1	4
Front side	10M_QPSK 25RB_25	23800/711	1:1	0.149	0.100	0.01	21.93	22	1.016	0.151	0.102	22.1	4
Back side	10M_QPSK 1RB_0	23800/711	1:1	0.437	0.239	0.05	22.95	23	1.012	0.442	0.242	22.1	4
Back side	10M_QPSK 25RB_25	23800/711	1:1	0.426	0.226	0.07	21.93	22	1.016	0.433	0.230	22.1	4
Left side	10M_QPSK 1RB_0	23800/711	1:1	0.260	0.130	0.15	22.95	23	1.012	0.263	0.132	22.1	4
Left side	10M_QPSK 25RB_25	23800/711	1:1	0.251	0.123	-0.06	21.93	22	1.016	0.255	0.125	22.1	4
Right side	10M_QPSK 1RB_0	23800/711	1:1	0.121	0.070	0.07	22.95	23	1.012	0.122	0.071	22.1	4
Right side	10M_QPSK 25RB_25	23800/711	1:1	0.115	0.064	-0.15	21.93	22	1.016	0.117	0.065	22.1	4
Top side	10M_QPSK 1RB_0	23800/711	1:1	0.055	0.023	-0.17	22.95	23	1.012	0.056	0.023	22.1	4
Top side	10M_QPSK 25RB_25	23800/711	1:1	0.042	0.016	0.17	21.93	22	1.016	0.043	0.016	22.1	4
Bottom side	10M_QPSK 1RB_0	23800/711	1:1	0.329	0.180	-0.08	22.95	23	1.012	0.333	0.182	22.1	4
Bottom side	10M_QPSK 25RB_25	23800/711	1:1	0.316	0.174	-0.06	21.93	22	1.016	0.321	0.177	22.1	4
Back side	10M_QPSK 1RB_0	23780/709	1:1	0.429	0.234	-0.02	22.89	23	1.026	0.440	0.240	22.1	4
Back side	10M_QPSK 1RB_0	23790/710	1:1	0.424	0.231	0.01	22.91	23	1.021	0.433	0.236	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	10M_QPSK 1RB_0	23800/711	1:1	0.435	0.236	0.05	22.95	23	1.012	0.440	0.239	22.1	4



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7.2.9 SAR Result Of LTE Band 25

LTE Band 25 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.198	0.12	-0.14	22.99	23	1.002	0.198	0.120	22.3	1.6
Front side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.185	0.101	0.05	21.9	22.5	1.148	0.212	0.116	22.3	1.6
Back side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.413	0.245	0.04	22.99	23	1.002	0.414	0.246	22.3	1.6
Back side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.398	0.239	-0.04	21.9	22.5	1.148	0.457	0.274	22.3	1.6
Left side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.14	0.079	-0.09	22.99	23	1.002	0.140	0.079	22.3	1.6
Left side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.129	0.065	-0.05	21.9	22.5	1.148	0.148	0.075	22.3	1.6
Right side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.391	0.222	0.08	22.99	23	1.002	0.392	0.223	22.3	1.6
Right side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.384	0.216	-0.02	21.9	22.5	1.148	0.441	0.248	22.3	1.6
Top side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.023	0.009	-0.1	22.99	23	1.002	0.023	0.009	22.3	1.6
Top side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.012	0.003	-0.02	21.9	22.5	1.148	0.014	0.003	22.3	1.6
Bottom side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.267	0.156	-0.01	22.99	23	1.002	0.268	0.156	22.3	1.6
Bottom side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.254	0.142	0.1	21.9	22.5	1.148	0.292	0.163	22.3	1.6
Back side	20M_QPSK 50RB_25	26140/1860	1:1	0.366	0.235	0.01	21.73	22.5	1.194	0.437	0.281	22.3	1.6
Back side	20M_QPSK 50RB_25	26590/1905	1:1	0.359	0.226	-0.16	21.82	22.5	1.169	0.420	0.264	22.3	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.396	0.232	0.02	21.9	22.5	1.148	0.455	0.266	22.3	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.878	0.486	0.19	22.99	23	1.002	0.880	0.487	22.3	4
Front side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.865	0.472	0.09	21.9	22.5	1.148	0.993	0.542	22.3	4
Back side	20M_QPSK 1RB_50	26365/1882.5	1:1	1.51	0.782	0.16	22.99	23	1.002	1.513	0.784	22.3	4
Back side	20M_QPSK 50RB_25	26365/1882.5	1:1	1.46	0.772	-0.01	21.9	22.5	1.148	1.676	0.886	22.3	4
Left side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.647	0.328	-0.04	22.99	23	1.002	0.648	0.329	22.3	4
Left side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.632	0.316	-0.09	21.9	22.5	1.148	0.726	0.363	22.3	4
Right side	20M_QPSK 1RB_50	26365/1882.5	1:1	1.67	0.806	0.06	22.99	23	1.002	1.674	0.808	22.3	4
Right side	20M_QPSK 50RB_25	26365/1882.5	1:1	1.53	0.799	-0.06	21.9	22.5	1.148	1.757	0.917	22.3	4
Top side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.064	0.036	-0.17	22.99	23	1.002	0.064	0.036	22.3	4
Top side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.052	0.023	0.13	21.9	22.5	1.148	0.060	0.026	22.3	4
Bottom side	20M_QPSK 1RB_50	26365/1882.5	1:1	0.853	0.484	0.13	22.99	23	1.002	0.855	0.485	22.3	4
Bottom side	20M_QPSK 50RB_25	26365/1882.5	1:1	0.842	0.473	-0.17	21.9	22.5	1.148	0.967	0.543	22.3	4
Right side	20M_QPSK 50RB_25	26140/1860	1:1	1.46	0.762	-0.04	21.73	22.5	1.194	1.743	0.910	22.3	4
Right side	20M_QPSK 50RB_25	26590/1905	1:1	1.39	0.769	-0.06	21.82	22.5	1.169	1.626	0.899	22.3	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Right side	20M_QPSK 50RB_25	26365/1882.5	1:1	1.5	0.797	-0.04	21.9	22.5	1.148	1.722	0.915	22.3	4



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7.2.10 SAR Result Of LTE Band 26a

LTE Band 26a SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	10M_QPSK 1RB_0	26740/819	1:1	0.092	0.065	-0.17	23.06	23.5	1.107	0.102	0.072	22.1	1.6
Front side	10M_QPSK 25RB_13	26740/819	1:1	0.073	0.053	-0.15	21.96	22	1.009	0.074	0.053	22.1	1.6
Back side	10M_QPSK 1RB_0	26740/819	1:1	0.387	0.218	0.08	23.06	23.5	1.107	0.428	0.241	22.1	1.6
Back side	10M_QPSK 25RB_13	26740/819	1:1	0.369	0.198	0.02	21.96	22	1.009	0.372	0.200	22.1	1.6
Left side	10M_QPSK 1RB_0	26740/819	1:1	0.172	0.118	-0.04	23.06	23.5	1.107	0.190	0.131	22.1	1.6
Left side	10M_QPSK 25RB_13	26740/819	1:1	0.169	0.101	-0.06	21.96	22	1.009	0.171	0.102	22.1	1.6
Right side	10M_QPSK 1RB_0	26740/819	1:1	0.058	0.040	0.01	23.06	23.5	1.107	0.064	0.044	22.1	1.6
Right side	10M_QPSK 25RB_13	26740/819	1:1	0.042	0.032	-0.06	21.96	22	1.009	0.042	0.032	22.1	1.6
Top side	10M_QPSK 1RB_0	26740/819	1:1	0.010	0.006	0.17	23.06	23.5	1.107	0.011	0.007	22.1	1.6
Top side	10M_QPSK 25RB_13	26740/819	1:1	0.003	0.001	0.15	21.96	22	1.009	0.003	0.001	22.1	1.6
Bottom side	10M_QPSK 1RB_0	26740/819	1:1	0.174	0.105	-0.05	23.06	23.5	1.107	0.193	0.116	22.1	1.6
Bottom side	10M_QPSK 25RB_13	26740/819	1:1	0.168	0.098	0.03	21.96	22	1.009	0.170	0.099	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	10M_QPSK 1RB_0	26740/819	1:1	0.379	0.213	0.08	23.06	23.5	1.107	0.419	0.236	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	10M_QPSK 1RB_0	26740/819	1:1	0.273	0.179	-0.06	23.06	23.5	1.107	0.302	0.198	22.1	4
Front side	10M_QPSK 25RB_13	26740/819	1:1	0.261	0.165	-0.01	21.96	22	1.009	0.263	0.167	22.1	4
Back side	10M_QPSK 1RB_0	26740/819	1:1	0.873	0.452	0.08	23.06	23.5	1.107	0.966	0.500	22.1	4
Back side	10M_QPSK 25RB_13	26740/819	1:1	0.869	0.446	-0.14	21.96	22	1.009	0.877	0.450	22.1	4
Left side	10M_QPSK 1RB_0	26740/819	1:1	0.618	0.327	-0.02	23.06	23.5	1.107	0.684	0.362	22.1	4
Left side	10M_QPSK 25RB_13	26740/819	1:1	0.602	0.319	0.09	21.96	22	1.009	0.608	0.322	22.1	4
Right side	10M_QPSK 1RB_0	26740/819	1:1	0.148	0.087	-0.02	23.06	23.5	1.107	0.164	0.096	22.1	4
Right side	10M_QPSK 25RB_13	26740/819	1:1	0.142	0.076	-0.06	21.96	22	1.009	0.143	0.077	22.1	4
Top side	10M_QPSK 1RB_0	26740/819	1:1	0.036	0.014	0.17	23.06	23.5	1.107	0.040	0.015	22.1	4
Top side	10M_QPSK 25RB_13	26740/819	1:1	0.028	0.009	0.02	21.96	22	1.009	0.028	0.009	22.1	4
Bottom side	10M_QPSK 1RB_0	26740/819	1:1	0.642	0.389	-0.09	23.06	23.5	1.107	0.710	0.430	22.1	4
Bottom side	10M_QPSK 25RB_13	26740/819	1:1	0.638	0.375	-0.05	21.96	22	1.009	0.644	0.378	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	10M_QPSK 1RB_0	26740/819	1:1	0.869	0.447	0.1	23.06	23.5	1.107	0.962	0.495	22.1	4



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7.2.11 SAR Result Of LTE Band 26b

LTE Band 26b SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	15M_QPSK 1RB_74	26915/836.5	1:1	0.089	0.062	-0.03	23.16	23.5	1.081	0.096	0.067	22.1	1.6
Front side	15M_QPSK 36RB_0	26915/836.5	1:1	0.082	0.046	-0.19	22.09	22.5	1.099	0.090	0.051	22.1	1.6
Back side	15M_QPSK 1RB_74	26915/836.5	1:1	0.374	0.215	0.09	23.16	23.5	1.081	0.404	0.233	22.1	1.6
Back side	15M_QPSK 36RB_0	26915/836.5	1:1	0.365	0.207	-0.04	22.09	22.5	1.099	0.401	0.227	22.1	1.6
Left side	15M_QPSK 1RB_74	26915/836.5	1:1	0.169	0.115	-0.07	23.16	23.5	1.081	0.183	0.124	22.1	1.6
Left side	15M_QPSK 36RB_0	26915/836.5	1:1	0.166	0.106	0.12	22.09	22.5	1.099	0.182	0.116	22.1	1.6
Right side	15M_QPSK 1RB_74	26915/836.5	1:1	0.055	0.037	-0.1	23.16	23.5	1.081	0.060	0.040	22.1	1.6
Right side	15M_QPSK 36RB_0	26915/836.5	1:1	0.044	0.029	-0.13	22.09	22.5	1.099	0.048	0.032	22.1	1.6
Top side	15M_QPSK 1RB_74	26915/836.5	1:1	0.023	0.012	0.08	23.16	23.5	1.081	0.025	0.013	22.1	1.6
Top side	15M_QPSK 36RB_0	26915/836.5	1:1	0.018	0.007	0.08	22.09	22.5	1.099	0.020	0.008	22.1	1.6
Bottom side	15M_QPSK 1RB_74	26915/836.5	1:1	0.171	0.102	-0.12	23.16	23.5	1.081	0.185	0.110	22.1	1.6
Bottom side	15M_QPSK 36RB_0	26915/836.5	1:1	0.162	0.091	0.06	22.09	22.5	1.099	0.178	0.100	22.1	1.6
Back side	15M_QPSK 1RB_74	26865/831.5	1:1	0.362	0.203	-0.05	23.09	23.5	1.099	0.398	0.223	22.1	1.6
Back side	15M_QPSK 1RB_74	26965/841.5	1:1	0.348	0.195	0.16	23.08	23.5	1.102	0.383	0.215	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	15M_QPSK 1RB_74	26915/836.5	1:1	0.365	0.206		23.16	23.5	1.081	0.395	0.223	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	15M_QPSK 1RB_74	26915/836.5	1:1	0.27	0.176	-0.04	23.16	23.5	1.081	0.292	0.190	22.1	4
Front side	15M_QPSK 36RB_0	26915/836.5	1:1	0.265	0.169	0.09	22.09	22.5	1.099	0.291	0.186	22.1	4
Back side	15M_QPSK 1RB_74	26915/836.5	1:1	0.87	0.449	0.04	23.16	23.5	1.081	0.941	0.486	22.1	4
Back side	15M_QPSK 36RB_0	26915/836.5	1:1	0.795	0.439	0.04	22.09	22.5	1.099	0.874	0.482	22.1	4
Left side	15M_QPSK 1RB_74	26915/836.5	1:1	0.615	0.324	0.16	23.16	23.5	1.081	0.665	0.350	22.1	4
Left side	15M_QPSK 36RB_0	26915/836.5	1:1	0.595	0.316	0.11	22.09	22.5	1.099	0.654	0.347	22.1	4
Right side	15M_QPSK 1RB_74	26915/836.5	1:1	0.145	0.084	-0.14	23.16	23.5	1.081	0.157	0.091	22.1	4
Right side	15M_QPSK 36RB_0	26915/836.5	1:1	0.133	0.083	0.18	22.09	22.5	1.099	0.146	0.091	22.1	4
Top side	15M_QPSK 1RB_74	26915/836.5	1:1	0.046	0.023	-0.17	23.16	23.5	1.081	0.050	0.025	22.1	4
Top side	15M_QPSK 36RB_0	26915/836.5	1:1	0.035	0.012	-0.09	22.09	22.5	1.099	0.038	0.013	22.1	4
Bottom side	15M_QPSK 1RB_74	26915/836.5	1:1	0.639	0.386	0.05	23.16	23.5	1.081	0.691	0.417	22.1	4
Bottom side	15M_QPSK 36RB_0	26915/836.5	1:1	0.635	0.373	-0.08	22.09	22.5	1.099	0.698	0.410	22.1	4
Back side	15M_QPSK 1RB_74	26865/831.5	1:1	0.859	0.432	0.01	23.09	23.5	1.099	0.944	0.475	22.1	4
Back side	15M_QPSK 1RB_74	26965/841.5	1:1	0.855	0.426	0.16	23.08	23.5	1.102	0.942	0.469	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	15M_QPSK 1RB_74	26915/836.5	1:1	0.865	0.445	0.13	23.16	23.5	1.081	0.935	0.481	22.1	4



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7.2.12 SAR Result Of LTE Band 41

LTE Band 41 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB_0	40620/2593	1:1	0.011	0.003	-0.17	22.93	23.5	1.140	0.012	0.004	22.1	1.6
Front side	20M_QPSK 50RB_0	40620/2593	1:1	0.005	0.003	-0.11	21.78	22.5	1.180	0.006	0.004	22.1	1.6
Back side	20M_QPSK 1RB_0	40620/2593	1:1	0.110	0.051	-0.16	22.93	23.5	1.140	0.125	0.059	22.1	1.6
Back side	20M_QPSK 50RB_0	40620/2593	1:1	0.085	0.043	-0.09	21.78	22.5	1.180	0.100	0.051	22.1	1.6
Left side	20M_QPSK 1RB_0	40620/2593	1:1	0.014	0.006	0.01	22.93	23.5	1.140	0.016	0.007	22.1	1.6
Left side	20M_QPSK 50RB_0	40620/2593	1:1	0.010	0.002	-0.07	21.78	22.5	1.180	0.012	0.002	22.1	1.6
Right side	20M_QPSK 1RB_0	40620/2593	1:1	0.066	0.036	0.17	22.93	23.5	1.140	0.075	0.041	22.1	1.6
Right side	20M_QPSK 50RB_0	40620/2593	1:1	0.046	0.029	0.11	21.78	22.5	1.180	0.054	0.034	22.1	1.6
Top side	20M_QPSK 1RB_0	40620/2593	1:1	0.012	0.006	0.09	22.93	23.5	1.140	0.014	0.007	22.1	1.6
Top side	20M_QPSK 50RB_0	40620/2593	1:1	0.003	0.002	0.12	21.78	22.5	1.180	0.004	0.002	22.1	1.6
Bottom side	20M_QPSK 1RB_0	40620/2593	1:1	0.065	0.029	0.17	22.93	23.5	1.140	0.074	0.033	22.1	1.6
Bottom side	20M_QPSK 50RB_0	40620/2593	1:1	0.046	0.021	0.09	21.78	22.5	1.180	0.054	0.025	22.1	1.6
Back side	20M_QPSK 1RB_0	39750/2506	1:1	0.092	0.046	-0.11	22.73	23.5	1.194	0.110	0.055	22.1	1.6
Back side	20M_QPSK 1RB_0	40185/2549.5	1:1	0.086	0.042	-0.15	22.69	23.5	1.205	0.104	0.051	22.1	1.6
Back side	20M_QPSK 1RB_0	41055/2636.5	1:1	0.090	0.046	-0.17	22.82	23.5	1.169	0.105	0.054	22.1	1.6
Back side	20M_QPSK 1RB_0	41490/2680	1:1	0.082	0.039	-0.13	22.83	23.5	1.167	0.096	0.046	22.1	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	20M_QPSK 1RB_0	40620/2593	1:1	0.101	0.048	-0.18	22.93	23.5	1.140	0.115	0.055	22.1	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB_0	40620/2593	1:1	0.094	0.045	0.16	22.93	23.5	1.140	0.107	0.051	22.1	4
Front side	20M_QPSK 50RB_0	40620/2593	1:1	0.085	0.031	0.16	21.78	22.5	1.180	0.100	0.037	22.1	4
Back side	20M_QPSK 1RB_0	40620/2593	1:1	0.411	0.185	0.03	22.93	23.5	1.140	0.469	0.211	22.1	4
Back side	20M_QPSK 50RB_0	40620/2593	1:1	0.395	0.174	0.01	21.78	22.5	1.180	0.466	0.205	22.1	4
Left side	20M_QPSK 1RB_0	40620/2593	1:1	0.024	0.010	0.08	22.93	23.5	1.140	0.028	0.011	22.1	4
Left side	20M_QPSK 50RB_0	40620/2593	1:1	0.019	0.006	-0.15	21.78	22.5	1.180	0.022	0.007	22.1	4
Right side	20M_QPSK 1RB_0	40620/2593	1:1	0.227	0.100	-0.09	22.93	23.5	1.140	0.259	0.113	22.1	4
Right side	20M_QPSK 50RB_0	40620/2593	1:1	0.216	0.086	0.05	21.78	22.5	1.180	0.255	0.102	22.1	4
Top side	20M_QPSK 1RB_0	40620/2593	1:1	0.033	0.015	-0.18	22.93	23.5	1.140	0.038	0.017	22.1	4
Top side	20M_QPSK 50RB_0	40620/2593	1:1	0.028	0.010	0.01	21.78	22.5	1.180	0.033	0.012	22.1	4
Bottom side	20M_QPSK 1RB_0	40620/2593	1:1	0.432	0.172	0.1	22.93	23.5	1.140	0.493	0.196	22.1	4
Bottom side	20M_QPSK 50RB_0	40620/2593	1:1	0.426	0.168	-0.01	21.78	22.5	1.180	0.503	0.198	22.1	4
Back side	20M_QPSK 1RB_0	39750/2506	1:1	0.402	0.172	0.16	22.73	23.5	1.194	0.480	0.205	22.1	4
Back side	20M_QPSK 1RB_0	40185/2549.5	1:1	0.398	0.170	0.14	22.69	23.5	1.205	0.480	0.205	22.1	4
Back side	20M_QPSK 1RB_0	41055/2636.5	1:1	0.395	0.165	-0.11	22.82	23.5	1.169	0.462	0.193	22.1	4
Back side	20M_QPSK 1RB_0	41490/2680	1:1	0.399	0.171	0.05	22.83	23.5	1.167	0.466	0.200	22.1	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	20M_QPSK 1RB_0	40620/2593	1:1	0.403	0.181	0.06	22.93	23.5	1.140	0.460	0.206	22.1	4



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7.2.13 SAR Result Of LTE Band 66

LTE Band 66 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB_99	132322/1745	1:1	0.159	0.102	-0.05	22.89	23	1.026	0.163	0.105	22.2	1.6
Front side	20M_QPSK 50RB_50	132322/1745	1:1	0.143	0.086	-0.02	21.56	22	1.107	0.158	0.095	22.2	1.6
Back side	20M_QPSK 1RB_99	132322/1745	1:1	0.712	0.393	0.19	22.89	23	1.026	0.730	0.403	22.2	1.6
Back side	20M_QPSK 50RB_50	132322/1745	1:1	0.685	0.384	0.02	21.56	22	1.107	0.758	0.425	22.2	1.6
Left side	20M_QPSK 1RB_99	132322/1745	1:1	0.148	0.087	-0.12	22.89	23	1.026	0.152	0.089	22.2	1.6
Left side	20M_QPSK 50RB_50	132322/1745	1:1	0.133	0.071	0.18	21.56	22	1.107	0.147	0.079	22.2	1.6
Right side	20M_QPSK 1RB_99	132322/1745	1:1	0.366	0.211	0.06	22.89	23	1.026	0.375	0.216	22.2	1.6
Right side	20M_QPSK 50RB_50	132322/1745	1:1	0.355	0.197	-0.16	21.56	22	1.107	0.393	0.218	22.2	1.6
Top side	20M_QPSK 1RB_99	132322/1745	1:1	0.003	0.001	-0.15	22.89	23	1.026	0.003	0.001	22.2	1.6
Top side	20M_QPSK 50RB_50	132322/1745	1:1	0.002	0.001	0.11	21.56	22	1.107	0.002	0.001	22.2	1.6
Bottom side	20M_QPSK 1RB_99	132322/1745	1:1	0.363	0.207	0.05	22.89	23	1.026	0.372	0.212	22.2	1.6
Bottom side	20M_QPSK 50RB_50	132322/1745	1:1	0.337	0.176	0.03	21.56	22	1.107	0.373	0.195	22.2	1.6
Back side	20M_QPSK 50RB_50	132072/1720	1:1	0.67	0.376	-0.15	21.49	22	1.125	0.753	0.423	22.2	1.6
Back side	20M_QPSK 50RB_50	132572/1770	1:1	0.669	0.368	0.17	21.48	22	1.127	0.754	0.415	22.2	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Back side	20M_QPSK 50RB_50	132322/1745	1:1	0.682	0.38	0.07	21.56	22	1.107	0.755	0.421	22.2	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB_99	132322/1745	1:1	0.732	0.410	-0.13	22.89	23	1.026	0.751	0.421	22.2	4
Front side	20M_QPSK 50RB_50	132322/1745	1:1	0.726	0.389	-0.13	21.56	22	1.107	0.803	0.430	22.2	4
Back side	20M_QPSK 1RB_99	132322/1745	1:1	1.820	0.944	0.17	22.89	23	1.026	1.867	0.968	22.2	4
Back side	20M_QPSK 50RB_50	132322/1745	1:1	1.790	0.931	0.06	21.56	22	1.107	1.981	1.030	22.2	4
Left side	20M_QPSK 1RB_99	132322/1745	1:1	0.504	0.249	-0.19	22.89	23	1.026	0.517	0.255	22.2	4
Left side	20M_QPSK 50RB_50	132322/1745	1:1	0.490	0.238	0.06	21.56	22	1.107	0.542	0.263	22.2	4
Right side	20M_QPSK 1RB_99	132322/1745	1:1	1.210	0.635	0.07	22.89	23	1.026	1.241	0.651	22.2	4
Right side	20M_QPSK 50RB_50	132322/1745	1:1	1.190	0.621	0.17	21.56	22	1.107	1.317	0.687	22.2	4
Top side	20M_QPSK 1RB_99	132322/1745	1:1	0.045	0.033	-0.12	22.89	23	1.026	0.046	0.034	22.2	4
Top side	20M_QPSK 50RB_50	132322/1745	1:1	0.032	0.025	0.12	21.56	22	1.107	0.035	0.028	22.2	4
Bottom side	20M_QPSK 1RB_99	132322/1745	1:1	0.889	0.531	0	22.89	23	1.026	0.912	0.545	22.2	4
Bottom side	20M_QPSK 50RB_50	132322/1745	1:1	0.866	0.525	-0.09	21.56	22	1.107	0.958	0.581	22.2	4
Back side	20M_QPSK 50RB_50	132072/1720	1:1	1.760	0.895	0.01	21.49	22	1.125	1.979	1.007	22.2	4
Back side	20M_QPSK 50RB_50	132572/1770	1:1	1.770	0.900	0.05	21.48	22	1.127	1.995	1.014	22.2	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	20M_QPSK 50RB_50	132322/1745	1:1	1.75	0.926		21.56	22	1.107	1.937	1.025	22.2	4



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7.2.14 SAR Result Of LTE Band 71

LTE Band 71 SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	20M_QPSK 1RB_0	133297/680.5	1:1	0.049	0.040	-0.07	23.00	23.5	1.122	0.055	0.044	22.2	1.6
Front side	20M_QPSK 50RB_0	133297/680.5	1:1	0.036	0.034	-0.05	22.39	22.5	1.026	0.037	0.035	22.2	1.6
Back side	20M_QPSK 1RB_0	133297/680.5	1:1	0.037	0.021	-0.16	23.00	23.5	1.122	0.041	0.024	22.2	1.6
Back side	20M_QPSK 50RB_0	133297/680.5	1:1	0.026	0.015	0.1	22.39	22.5	1.026	0.027	0.015	22.2	1.6
Left side	20M_QPSK 1RB_0	133297/680.5	1:1	0.091	0.066	0.01	23.00	23.5	1.122	0.103	0.074	22.2	1.6
Left side	20M_QPSK 50RB_0	133297/680.5	1:1	0.076	0.052	0.06	22.39	22.5	1.026	0.078	0.053	22.2	1.6
Right side	20M_QPSK 1RB_0	133297/680.5	1:1	0.021	0.010	-0.18	23.00	23.5	1.122	0.024	0.011	22.2	1.6
Right side	20M_QPSK 50RB_0	133297/680.5	1:1	0.021	0.009	0.1	22.39	22.5	1.026	0.022	0.009	22.2	1.6
Top side	20M_QPSK 1RB_0	133297/680.5	1:1	0.008	0.004	-0.14	23.00	23.5	1.122	0.009	0.004	22.2	1.6
Top side	20M_QPSK 50RB_0	133297/680.5	1:1	0.007	0.003	-0.06	22.39	22.5	1.026	0.007	0.003	22.2	1.6
Bottom side	20M_QPSK 1RB_0	133297/680.5	1:1	0.023	0.011	-0.02	23.00	23.5	1.122	0.026	0.012	22.2	1.6
Bottom side	20M_QPSK 50RB_0	133297/680.5	1:1	0.022	0.011	0.08	22.39	22.5	1.026	0.023	0.011	22.2	1.6
Left side	20M_QPSK 1RB_0	133222/673	1:1	0.085	0.059	-0.16	22.94	23.5	1.138	0.097	0.067	22.2	1.6
Left side	20M_QPSK 1RB_0	133372/688	1:1	0.082	0.057	-0.14	22.92	23.5	1.143	0.094	0.065	22.2	1.6
Body Test data at the worst case with SIM2(Separate 10mm)													
Left side	20M_QPSK 1RB_0	133297/680.5	1:1	0.086	0.01	0.03	23.00	23.5	1.122	0.096	0.011	22.2	1.6
Extremity Test data(Separate 0mm)													
Front side	20M_QPSK 1RB_0	133297/680.5	1:1	0.194	0.156	0.15	23.00	23.5	1.122	0.218	0.175	22.2	4
Front side	20M_QPSK 50RB_0	133297/680.5	1:1	0.175	0.142	-0.02	22.39	22.5	1.026	0.179	0.146	22.2	4
Back side	20M_QPSK 1RB_0	133297/680.5	1:1	0.371	0.236	0.03	23.00	23.5	1.122	0.416	0.265	22.2	4
Back side	20M_QPSK 50RB_0	133297/680.5	1:1	0.368	0.199	-0.12	22.39	22.5	1.026	0.377	0.204	22.2	4
Left side	20M_QPSK 1RB_0	133297/680.5	1:1	0.155	0.081	-0.05	23.00	23.5	1.122	0.174	0.091	22.2	4
Left side	20M_QPSK 50RB_0	133297/680.5	1:1	0.152	0.076	0.03	22.39	22.5	1.026	0.156	0.078	22.2	4
Right side	20M_QPSK 1RB_0	133297/680.5	1:1	0.083	0.038	-0.06	23.00	23.5	1.122	0.093	0.043	22.2	4
Right side	20M_QPSK 50RB_0	133297/680.5	1:1	0.082	0.034	0.18	22.39	22.5	1.026	0.084	0.035	22.2	4
Top side	20M_QPSK 1RB_0	133297/680.5	1:1	0.031	0.015	0.17	23.00	23.5	1.122	0.035	0.017	22.2	4
Top side	20M_QPSK 50RB_0	133297/680.5	1:1	0.026	0.010	0.16	22.39	22.5	1.026	0.027	0.010	22.2	4
Bottom side	20M_QPSK 1RB_0	133297/680.5	1:1	0.093	0.044	0.02	23.00	23.5	1.122	0.104	0.049	22.2	4
Bottom side	20M_QPSK 50RB_0	133297/680.5	1:1	0.088	0.042	0.13	22.39	22.5	1.026	0.090	0.043	22.2	4
Back side	20M_QPSK 1RB_0	133222/673	1:1	0.348	0.221	-0.03	22.94	23.5	1.138	0.396	0.251	22.2	4
Back side	20M_QPSK 1RB_0	133372/688	1:1	0.351	0.226	-0.13	22.92	23.5	1.143	0.401	0.258	22.2	4
Extremity Test data at the worst case with SIM2(Separate 0mm)													
Back side	20M_QPSK 1RB_0	133297/680.5	1:1	0.365	0.231	0.03	23.00	23.5	1.122	0.410	0.259	22.2	4



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7.2.15 SAR Result Of 2.4GHz Wi-Fi

Wi-Fi 2.4G SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR(W/kg)	Liqui d Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	802.11b	11/2462	98.57 %	1.015	0.078	0.033	-0.19	16.48	17.00	1.127	0.089	22.0	1.6
Back side	802.11b	11/2462	98.57 %	1.015	0.171	0.093	0.15	16.48	17.00	1.127	0.196	22.0	1.6
Left side	802.11b	11/2462	98.57 %	1.015	0.031	0.080	0.01	16.48	17.00	1.127	0.035	22.0	1.6
Right side	802.11b	11/2462	98.57 %	1.015	0.108	0.049	-0.03	16.48	17.00	1.127	0.124	22.0	1.6
Top side	802.11b	11/2462	98.57 %	1.015	0.064	0.035	0.03	16.48	17.00	1.127	0.073	22.0	1.6
Bottom side	802.11b	11/2462	98.57 %	1.015	0.002	0.001	0.02	16.48	17.00	1.127	0.002	22.0	1.6
Back side	802.11b	1/2412	98.89 %	1.011	0.165	0.086	0.01	16.32	17.00	1.169	0.195	22.0	1.6
Back side	802.11b	6/2437	98.89 %	1.011	0.168	0.089	0.08	16.39	17.00	1.151	0.195	22.0	1.6
Extremity Test data(Separate 0mm)													
Front side	802.11b	11/2462	98.57 %	1.015	0.334	0.145	0.02	16.48	17.00	1.127	0.166	22.0	4
Back side	802.11b	11/2462	98.57 %	1.015	0.270	0.146	0.09	16.48	17.00	1.127	0.167	22.0	4
Left side	802.11b	11/2462	98.57 %	1.015	0.063	0.018	-0.15	16.48	17.00	1.127	0.021	22.0	4
Right side	802.11b	11/2462	98.57 %	1.015	0.728	0.315	0.04	16.48	17.00	1.127	0.360	22.0	4
Top side	802.11b	11/2462	98.57 %	1.015	0.326	0.136	0.08	16.48	17.00	1.127	0.156	22.0	4
Bottom side	802.11b	11/2462	98.57 %	1.015	0.009	0.001	0.02	16.48	17.00	1.127	0.001	22.0	4
Right side	802.11b	1/2412	98.89 %	1.011	0.584	0.252	0.07	16.32	17.00	1.169	0.298	22.0	4
Right side	802.11b	6/2437	98.89 %	1.011	0.713	0.308	0.09	16.39	17.00	1.151	0.358	22.0	4



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7.2.16 SAR Result Of Bluetooth

Bluetooth SAR Test Record													
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.	SAR limit (W/kg)
Body Test data(Separate 10mm)													
Front side	GFSK	78/2480	78.30%	1.277	0.012	0.008	0.17	9.12	11.00	1.542	0.024	22.0	1.6
Back side	GFSK	78/2480	78.30%	1.277	0.030	0.011	0.06	9.12	11.00	1.542	0.058	22.0	1.6
Left side	GFSK	78/2480	78.30%	1.277	0.003	0.001	-0.09	9.12	11.00	1.542	0.006	22.0	1.6
Right side	GFSK	78/2480	78.30%	1.277	0.001	0.001	-0.19	9.12	11.00	1.542	0.002	22.0	1.6
Top side	GFSK	78/2480	78.30%	1.277	0.002	0.001	0.02	9.12	11.00	1.542	0.004	22.0	1.6
Bottom side	GFSK	78/2480	78.30%	1.277	0.001	0.001	0.06	9.12	11.00	1.542	0.002	22.0	1.6
Back side	GFSK	0/2402	78.22%	1.278	0.024	0.009	-0.14	7.32	9.00	1.472	0.045	22.0	1.6
Back side	GFSK	39/2441	78.30%	1.277	0.018	0.005	-0.03	8.53	10.00	1.403	0.032	22.0	1.6
Extremity Test data(Separate 0mm)													
Front side	GFSK	78/2480	78.30%	1.277	0.051	0.019	0.02	9.12	11.00	1.542	0.100	22.0	4
Back side	GFSK	78/2480	78.30%	1.277	0.074	0.028	-0.04	9.12	11.00	1.542	0.146	22.0	4
Left side	GFSK	78/2480	78.30%	1.277	0.032	0.014	0.07	9.12	11.00	1.542	0.063	22.0	4
Right side	GFSK	78/2480	78.30%	1.277	0.124	0.047	-0.07	9.12	11.00	1.542	0.244	22.0	4
Top side	GFSK	78/2480	78.30%	1.277	0.036	0.018	0.17	9.12	11.00	1.542	0.071	22.0	4
Bottom side	GFSK	78/2480	78.30%	1.277	0.010	0.008	0.17	9.12	11.00	1.542	0.020	22.0	4
Right side	GFSK	0/2402	78.22%	1.278	0.116	0.039	0.11	7.32	9.00	1.472	0.218	22.0	4
Right side	GFSK	39/2441	78.30%	1.277	0.110	0.023	0.11	8.53	10.00	1.403	0.197	22.0	4



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7.2.17 SAR Result Of 5G WiFi

Wi-Fi 5G SAR Test Record														
Test position	Test mode	Test Ch./Freq.	Duty Cycle %	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 1-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Body Test data U-NII-2A(Separate 10mm)														
Front side	802.11ac 20M	60/5300	98.17	1.019	0.159	0.073	-0.16	15.22	16	1.197	0.194	0.089	22.2	1.6
Back side	802.11ac 20M	60/5300	98.17	1.019	0.344	0.158	0.11	15.22	16	1.197	0.420	0.193	22.2	1.6
Left side	802.11ac 20M	60/5300	98.17	1.019	0.023	0.014	-0.04	15.22	16	1.197	0.028	0.017	22.2	1.6
Right side	802.11ac 20M	60/5300	98.17	1.019	0.107	0.037	-0.13	15.22	16	1.197	0.130	0.045	22.2	1.6
Top side	802.11ac 20M	60/5300	98.17	1.019	0.045	0.021	0.08	15.22	16	1.197	0.055	0.026	22.2	1.6
Bottom side	802.11ac 20M	60/5300	98.17	1.019	0.011	0.006	-0.09	15.22	16	1.197	0.013	0.007	22.2	1.6
Back side	802.11ac 20M	52/5260	98.22	1.018	0.326	0.147	-0.12	15.1	16	1.230	0.408	0.184	22.2	1.6
Back side	802.11ac 20M	64/5320	98.22	1.018	0.287	0.124	0.05	14.6	16	1.380	0.403	0.174	22.2	1.6
Extremity Test data U-NII-2A(Separate 0mm)														
Front side	802.11ac 20M	60/5300	98.17	1.019	0.662	0.434	0.07	15.22	16	1.197	0.807	0.529	22.2	4
Back side	802.11ac 20M	60/5300	98.17	1.019	0.475	0.200	-0.1	15.22	16	1.197	0.579	0.244	22.2	4
Left side	802.11ac 20M	60/5300	98.17	1.019	0.076	0.034	0.02	15.22	16	1.197	0.093	0.041	22.2	4
Right side	802.11ac 20M	60/5300	98.17	1.019	0.179	0.073	0.03	15.22	16	1.197	0.218	0.089	22.2	4
Top side	802.11ac 20M	60/5300	98.17	1.019	0.272	0.084	-0.02	15.22	16	1.197	0.332	0.103	22.2	4
Bottom side	802.11ac 20M	60/5300	98.17	1.019	0.063	0.026	0.04	15.22	16	1.197	0.077	0.032	22.2	4
Front side	802.11ac 20M	52/5260	98.22	1.018	0.723	0.410	0.18	15.1	16	1.230	0.905	0.513	22.2	4
Front side	802.11ac 20M	64/5320	98.22	1.018	0.714	0.398	-0.15	14.9	16	1.288	0.936	0.522	22.2	4
Body Test data U-NII-2C(Separate 10mm)														
Front side	802.11ac 40M	134/5670	96.56	1.036	0.157	0.070	0.12	16.24	17	1.191	0.194	0.086	22.2	1.6
Back side	802.11ac 40M	134/5670	96.56	1.036	0.571	0.296	-0.01	16.24	17	1.191	0.705	0.365	22.2	1.6
Left side	802.11ac 40M	134/5670	96.56	1.036	0.003	0.001	-0.13	16.24	17	1.191	0.004	0.001	22.2	1.6
Right side	802.11ac 40M	134/5670	96.56	1.036	0.109	0.0424	0.17	16.24	17	1.191	0.135	0.052	22.2	1.6
Top side	802.11ac 40M	134/5670	96.56	1.036	0.221	0.085	-0.15	16.24	17	1.191	0.273	0.105	22.2	1.6
Bottom side	802.11ac 40M	134/5670	96.56	1.036	0.012	0.003	0.12	16.24	17	1.191	0.015	0.004	22.2	1.6
Back side	802.11ac 40M	102/5510	96.46	1.037	0.564	0.282	0.07	15.96	17	1.271	0.743	0.372	22.2	1.6
Back side	802.11ac 40M	110/5550	96.46	1.037	0.546	0.276	-0.07	15.83	17	1.309	0.741	0.375	22.2	1.6
Extremity Test data U-NII-2C(Separate 0mm)														
Front side	802.11ac 40M	134/5670	96.56	1.036	0.365	0.167	-0.05	16.24	17	1.191	0.450	0.206	22.2	4
Back side	802.11ac 40M	134/5670	96.56	1.036	0.748	0.446	-0.19	16.24	17	1.191	0.923	0.550	22.2	4
Left side	802.11ac 40M	134/5670	96.56	1.036	0.085	0.032	-0.15	16.24	17	1.191	0.105	0.040	22.2	4



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Right side	802.11ac 40M	134/5670	96.56	1.036	0.638	0.172	-0.09	16.24	17	1.191	0.787	0.212	22.2	4
Top side	802.11ac 40M	134/5670	96.56	1.036	0.431	0.137	-0.08	16.24	17	1.191	0.532	0.169	22.2	4
Bottom side	802.11ac 40M	134/5670	96.56	1.036	0.056	0.027	0.04	16.24	17	1.191	0.069	0.033	22.2	4
Back side	802.11ac 40M	102/5510	96.46	1.037	0.689	0.432	-0.04	15.96	17	1.271	0.908	0.569	22.2	4
Back side	802.11ac 40M	110/5550	96.46	1.037	0.673	0.409	-0.12	15.83	17	1.309	0.914	0.555	22.2	4
Body Test data U-NII-3(Separate 10mm)														
Front side	802.11ac 40M	151/5755	96.44	1.037	0.061	0.001	0.07	16.36	17	1.159	0.074	0.001	22.2	1.6
Back side	802.11ac 40M	151/5755	96.44	1.037	0.255	0.071	-0.06	16.36	17	1.159	0.306	0.085	22.2	1.6
Left side	802.11ac 40M	151/5755	96.44	1.037	0.068	0.026	0.13	16.36	17	1.159	0.082	0.031	22.2	1.6
Right side	802.11ac 40M	151/5755	96.44	1.037	0.15	0.039	0.19	16.36	17	1.159	0.180	0.047	22.2	1.6
Top side	802.11ac 40M	151/5755	96.44	1.037	0.132	0.035	-0.04	16.36	17	1.159	0.159	0.042	22.2	1.6
Bottom side	802.11ac 40M	151/5755	96.44	1.037	0.032	0.015	-0.13	16.36	17	1.159	0.038	0.018	22.2	1.6
Back side	802.11ac 40M	159/5795	96.44	1.037	0.241	0.062	0.02	16.24	17	1.191	0.298	0.077	22.2	1.6
Extremity Test data U-NII-3(Separate 0mm)														
Front side	802.11ac 40M	151/5755	96.44	1.037	0.182	0.093	-0.02	16.36	17	1.159	0.219	0.112	22.2	4
Back side	802.11ac 40M	151/5755	96.44	1.037	0.76	0.416	0.18	16.36	17	1.159	0.913	0.500	22.2	4
Left side	802.11ac 40M	151/5755	96.44	1.037	0.202	0.0646	0.15	16.36	17	1.159	0.243	0.078	22.2	4
Right side	802.11ac 40M	151/5755	96.44	1.037	0.636	0.3	-0.05	16.36	17	1.159	0.764	0.360	22.2	4
Top side	802.11ac 40M	151/5755	96.44	1.037	0.494	0.139	0.18	16.36	17	1.159	0.594	0.167	22.2	4
Bottom side	802.11ac 40M	151/5755	96.44	1.037	0.012	0.006	0.1	16.36	17	1.159	0.014	0.007	22.2	4
Back side	802.11ac 40M	159/5795	96.44	1.037	0.69	0.339	0.13	16.24	17	1.191	0.852	0.419	22.2	4



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7.3 Multiple Transmitter Evaluation

7.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Body	Extremity
1	WWAN + WIFI 2.4GHz	Yes	Yes
2	WWAN + 5GHz	Yes	Yes
3	WWAN + BT	Yes	Yes

Simultaneous Transmission SAR Summation Scenario for Extremity

WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX. WLAN 5G (W/kg)	④MAX. BT SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Volume scan
LTE Band 2	Front side	0.086	0.089	0.194	0.024	0.175	0.280	0.110	NO
	Back side	0.233	0.196	0.743	0.058	0.429	0.976	0.291	NO
	Left side	0.062	0.035	0.082	0.006	0.097	0.144	0.068	NO
	Right side	0.162	0.124	0.180	0.002	0.286	0.342	0.164	NO
	Top side	0.034	0.073	0.273	0.004	0.107	0.307	0.038	NO
	Bottom side	0.105	0.002	0.038	0.002	0.107	0.143	0.107	NO
LTE Band 4	Front side	0.170	0.089	0.194	0.024	0.259	0.364	0.194	NO
	Back side	0.726	0.196	0.743	0.058	0.922	1.469	0.784	NO
	Left side	0.160	0.035	0.082	0.006	0.195	0.242	0.166	NO
	Right side	0.348	0.124	0.180	0.002	0.472	0.528	0.350	NO
	Top side	0.069	0.073	0.273	0.004	0.142	0.342	0.073	NO
	Bottom side	0.386	0.002	0.038	0.002	0.388	0.424	0.388	NO
LTE Band 5	Front side	0.123	0.089	0.194	0.024	0.212	0.317	0.147	NO
	Back side	0.396	0.196	0.743	0.058	0.592	1.139	0.454	NO
	Left side	0.049	0.035	0.082	0.006	0.084	0.131	0.055	NO
	Right side	0.068	0.124	0.180	0.002	0.192	0.248	0.070	NO
	Top side	0.011	0.073	0.273	0.004	0.084	0.284	0.015	NO
	Bottom side	0.198	0.002	0.038	0.002	0.200	0.236	0.200	NO
LTE Band 7	Front side	0.046	0.089	0.194	0.024	0.135	0.240	0.070	NO
	Back side	0.613	0.196	0.743	0.058	0.809	1.356	0.671	NO
	Left side	0.052	0.035	0.082	0.006	0.087	0.134	0.058	NO
	Right side	0.180	0.124	0.180	0.002	0.304	0.360	0.182	NO
	Top side	0.035	0.073	0.273	0.004	0.108	0.308	0.039	NO
	Bottom side	0.254	0.002	0.038	0.002	0.256	0.292	0.256	NO
LTE Band 12	Front side	0.098	0.089	0.194	0.024	0.187	0.292	0.122	NO
	Back side	0.157	0.196	0.743	0.058	0.353	0.900	0.215	NO
	Left side	0.080	0.035	0.082	0.006	0.115	0.162	0.086	NO
	Right side	0.129	0.124	0.180	0.002	0.253	0.309	0.131	NO
	Top side	0.026	0.073	0.273	0.004	0.099	0.299	0.030	NO
	Bottom side	0.067	0.002	0.038	0.002	0.069	0.105	0.069	NO



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LTE Band 13	Front side	0.107	0.089	0.194	0.024	0.196	0.301	0.131	NO
	Back side	0.228	0.196	0.743	0.058	0.424	0.971	0.286	NO
	Left side	0.116	0.035	0.082	0.006	0.151	0.198	0.122	NO
	Right side	0.075	0.124	0.180	0.002	0.199	0.255	0.077	NO
	Top side	0.012	0.073	0.273	0.004	0.085	0.285	0.016	NO
	Bottom side	0.117	0.002	0.038	0.002	0.119	0.155	0.119	NO
LTE Band 14	Front side	0.126	0.089	0.194	0.024	0.215	0.320	0.150	NO
	Back side	0.216	0.196	0.743	0.058	0.412	0.959	0.274	NO
	Left side	0.153	0.035	0.082	0.006	0.188	0.235	0.159	NO
	Right side	0.081	0.124	0.180	0.002	0.205	0.261	0.083	NO
	Top side	0.024	0.073	0.273	0.004	0.097	0.297	0.028	NO
	Bottom side	0.110	0.002	0.038	0.002	0.112	0.148	0.112	NO
LTE Band 17	Front side	0.114	0.089	0.194	0.024	0.203	0.308	0.138	NO
	Back side	0.164	0.196	0.743	0.058	0.360	0.907	0.222	NO
	Left side	0.096	0.035	0.082	0.006	0.131	0.178	0.102	NO
	Right side	0.135	0.124	0.180	0.002	0.259	0.315	0.137	NO
	Top side	0.023	0.073	0.273	0.004	0.096	0.296	0.027	NO
	Bottom side	0.054	0.002	0.038	0.002	0.056	0.092	0.056	NO
LTE Band 25	Front side	0.212	0.089	0.194	0.024	0.301	0.406	0.236	NO
	Back side	0.457	0.196	0.743	0.058	0.653	1.200	0.515	NO
	Left side	0.148	0.035	0.082	0.006	0.183	0.230	0.154	NO
	Right side	0.441	0.124	0.180	0.002	0.565	0.621	0.443	NO
	Top side	0.023	0.073	0.273	0.004	0.096	0.296	0.027	NO
	Bottom side	0.292	0.002	0.038	0.002	0.294	0.330	0.294	NO
LTE Band 26a	Front side	0.102	0.089	0.194	0.024	0.191	0.296	0.126	NO
	Back side	0.428	0.196	0.743	0.058	0.624	1.171	0.486	NO
	Left side	0.190	0.035	0.082	0.006	0.225	0.272	0.196	NO
	Right side	0.064	0.124	0.180	0.002	0.188	0.244	0.066	NO
	Top side	0.011	0.073	0.273	0.004	0.084	0.284	0.015	NO
	Bottom side	0.193	0.002	0.038	0.002	0.195	0.231	0.195	NO
LTE Band 26b	Front side	0.096	0.089	0.194	0.024	0.185	0.290	0.120	NO
	Back side	0.404	0.196	0.743	0.058	0.600	1.147	0.462	NO
	Left side	0.183	0.035	0.082	0.006	0.218	0.265	0.189	NO
	Right side	0.060	0.124	0.180	0.002	0.184	0.240	0.062	NO
	Top side	0.025	0.073	0.273	0.004	0.098	0.298	0.029	NO
	Bottom side	0.185	0.002	0.038	0.002	0.187	0.223	0.187	NO
LTE Band 41	Front side	0.012	0.089	0.194	0.024	0.101	0.206	0.036	NO
	Back side	0.125	0.196	0.743	0.058	0.321	0.868	0.183	NO
	Left side	0.016	0.035	0.082	0.006	0.051	0.098	0.022	NO
	Right side	0.075	0.124	0.180	0.002	0.199	0.255	0.077	NO
	Top side	0.014	0.073	0.273	0.004	0.087	0.287	0.018	NO
	Bottom side	0.074	0.002	0.038	0.002	0.076	0.112	0.076	NO
LTE Band 66	Front side	0.163	0.089	0.194	0.024	0.252	0.357	0.187	NO
	Back side	0.758	0.196	0.743	0.058	0.954	1.501	0.816	NO
	Left side	0.152	0.035	0.082	0.006	0.187	0.234	0.158	NO
	Right side	0.393	0.124	0.180	0.002	0.517	0.573	0.395	NO
	Top side	0.003	0.073	0.273	0.004	0.076	0.276	0.007	NO



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	Bottom side	0.373	0.002	0.038	0.002	0.375	0.411	0.375	NO
LTE Band 71	Front side	0.055	0.089	0.194	0.024	0.144	0.249	0.079	NO
	Back side	0.041	0.196	0.743	0.058	0.237	0.784	0.099	NO
	Left side	0.103	0.035	0.082	0.006	0.138	0.185	0.109	NO
	Right side	0.024	0.124	0.180	0.002	0.148	0.204	0.026	NO
	Top side	0.009	0.073	0.273	0.004	0.082	0.282	0.013	NO
	Bottom side	0.026	0.002	0.038	0.002	0.028	0.064	0.028	NO

Simultaneous Transmission SAR Summation Scenario for Extremity

WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX. WLAN 5G (W/kg)	④MAX. BT SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Volume scan
LTE Band 2	Front side	0.189	0.166	0.529	0.100	0.355	0.718	0.289	NO
	Back side	0.321	0.167	0.569	0.146	0.488	0.890	0.467	NO
	Left side	0.114	0.021	0.078	0.063	0.135	0.192	0.177	NO
	Right side	0.369	0.360	0.360	0.244	0.729	0.729	0.613	NO
	Top side	0.037	0.156	0.169	0.071	0.193	0.206	0.108	NO
	Bottom side	0.204	0.001	0.033	0.020	0.205	0.237	0.224	NO
LTE Band 4	Front side	0.457	0.166	0.529	0.100	0.623	0.986	0.557	NO
	Back side	1.116	0.167	0.569	0.146	1.283	1.685	1.262	NO
	Left side	0.208	0.021	0.078	0.063	0.229	0.286	0.271	NO
	Right side	0.702	0.360	0.360	0.244	1.062	1.062	0.946	NO
	Top side	0.056	0.156	0.169	0.071	0.212	0.225	0.127	NO
	Bottom side	0.555	0.001	0.033	0.020	0.556	0.588	0.575	NO
LTE Band 5	Front side	0.229	0.166	0.529	0.100	0.395	0.758	0.329	NO
	Back side	0.522	0.167	0.569	0.146	0.689	1.091	0.668	NO
	Left side	0.501	0.021	0.078	0.063	0.522	0.579	0.564	NO
	Right side	0.105	0.360	0.360	0.244	0.465	0.465	0.349	NO
	Top side	0.015	0.156	0.169	0.071	0.171	0.184	0.086	NO
	Bottom side	0.450	0.001	0.033	0.020	0.451	0.483	0.470	NO
LTE Band 7	Front side	0.188	0.166	0.529	0.100	0.354	0.717	0.288	NO
	Back side	0.903	0.167	0.569	0.146	1.070	1.472	1.049	NO
	Left side	0.058	0.021	0.078	0.063	0.079	0.136	0.121	NO
	Right side	0.440	0.360	0.360	0.244	0.800	0.800	0.684	NO
	Top side	0.050	0.156	0.169	0.071	0.206	0.219	0.121	NO
	Bottom side	0.755	0.001	0.033	0.020	0.756	0.788	0.775	NO
LTE Band 12	Front side	0.116	0.166	0.529	0.100	0.282	0.645	0.216	NO
	Back side	0.306	0.167	0.569	0.146	0.473	0.875	0.452	NO
	Left side	0.137	0.021	0.078	0.063	0.158	0.215	0.200	NO
	Right side	0.067	0.360	0.360	0.244	0.427	0.427	0.311	NO
	Top side	0.018	0.156	0.169	0.071	0.174	0.187	0.089	NO
	Bottom side	0.184	0.001	0.033	0.020	0.185	0.217	0.204	NO
LTE Band 13	Front side	0.198	0.166	0.529	0.100	0.364	0.727	0.298	NO
	Back side	0.528	0.167	0.569	0.146	0.695	1.097	0.674	NO
	Left side	0.412	0.021	0.078	0.063	0.433	0.490	0.475	NO
	Right side	0.100	0.360	0.360	0.244	0.460	0.460	0.344	NO
	Top side	0.013	0.156	0.169	0.071	0.169	0.182	0.084	NO
	Bottom side	0.458	0.001	0.033	0.020	0.459	0.491	0.478	NO



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LTE Band 14	Front side	0.185	0.166	0.529	0.100	0.351	0.714	0.285	NO
	Back side	0.475	0.167	0.569	0.146	0.642	1.044	0.621	NO
	Left side	0.376	0.021	0.078	0.063	0.397	0.454	0.439	NO
	Right side	0.096	0.360	0.360	0.244	0.456	0.456	0.340	NO
	Top side	0.017	0.156	0.169	0.071	0.173	0.186	0.088	NO
	Bottom side	0.399	0.001	0.033	0.020	0.400	0.432	0.419	NO
LTE Band 17	Front side	0.108	0.166	0.529	0.100	0.274	0.637	0.208	NO
	Back side	0.242	0.167	0.569	0.146	0.409	0.811	0.388	NO
	Left side	0.132	0.021	0.078	0.063	0.153	0.210	0.195	NO
	Right side	0.071	0.360	0.360	0.244	0.431	0.431	0.315	NO
	Top side	0.023	0.156	0.169	0.071	0.179	0.192	0.094	NO
	Bottom side	0.182	0.001	0.033	0.020	0.183	0.215	0.202	NO
LTE Band 25	Front side	0.542	0.166	0.529	0.100	0.708	1.071	0.642	NO
	Back side	0.886	0.167	0.569	0.146	1.053	1.455	1.032	NO
	Left side	0.363	0.021	0.078	0.063	0.384	0.441	0.426	NO
	Right side	0.917	0.360	0.360	0.244	1.277	1.277	1.161	NO
	Top side	0.036	0.156	0.169	0.071	0.192	0.205	0.107	NO
	Bottom side	0.543	0.001	0.033	0.020	0.544	0.576	0.563	NO
LTE Band 26a	Front side	0.198	0.166	0.529	0.100	0.364	0.727	0.298	NO
	Back side	0.500	0.167	0.569	0.146	0.667	1.069	0.646	NO
	Left side	0.362	0.021	0.078	0.063	0.383	0.440	0.425	NO
	Right side	0.096	0.360	0.360	0.244	0.456	0.456	0.340	NO
	Top side	0.015	0.156	0.169	0.071	0.171	0.184	0.086	NO
	Bottom side	0.430	0.001	0.033	0.020	0.431	0.463	0.450	NO
LTE Band 26b	Front side	0.190	0.166	0.529	0.100	0.356	0.719	0.290	NO
	Back side	0.486	0.167	0.569	0.146	0.653	1.055	0.632	NO
	Left side	0.350	0.021	0.078	0.063	0.371	0.428	0.413	NO
	Right side	0.091	0.360	0.360	0.244	0.451	0.451	0.335	NO
	Top side	0.025	0.156	0.169	0.071	0.181	0.194	0.096	NO
	Bottom side	0.417	0.001	0.033	0.020	0.418	0.450	0.437	NO
LTE Band 41	Front side	0.051	0.166	0.529	0.100	0.217	0.580	0.151	NO
	Back side	0.211	0.167	0.569	0.146	0.378	0.780	0.357	NO
	Left side	0.011	0.021	0.078	0.063	0.032	0.089	0.074	NO
	Right side	0.113	0.360	0.360	0.244	0.473	0.473	0.357	NO
	Top side	0.017	0.156	0.169	0.071	0.173	0.186	0.088	NO
	Bottom side	0.198	0.001	0.033	0.020	0.199	0.231	0.218	NO
LTE Band 66	Front side	0.421	0.166	0.529	0.100	0.587	0.950	0.521	NO
	Back side	1.030	0.167	0.569	0.146	1.197	1.599	1.176	NO
	Left side	0.263	0.021	0.078	0.063	0.284	0.341	0.326	NO
	Right side	0.687	0.360	0.360	0.244	1.047	1.047	0.931	NO
	Top side	0.034	0.156	0.169	0.071	0.190	0.203	0.105	NO
	Bottom side	0.581	0.001	0.033	0.020	0.582	0.614	0.601	NO
LTE Band 71	Front side	0.175	0.166	0.529	0.100	0.341	0.704	0.275	NO
	Back side	0.265	0.167	0.569	0.146	0.432	0.834	0.411	NO
	Left side	0.091	0.021	0.078	0.063	0.112	0.169	0.154	NO
	Right side	0.043	0.360	0.360	0.244	0.403	0.403	0.287	NO
	Top side	0.017	0.156	0.169	0.071	0.173	0.186	0.088	NO
	Bottom side	0.049	0.001	0.033	0.020	0.050	0.082	0.069	NO



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8 Equipment list

Test Platform		SPEAG DASY5 Professional				
Location		SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch				
Software Reference		DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)				
Hardware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	P C	DELL	Core(TM)i3-6100 3.7GHz	7LLVLG2	N/A	N/A
☒	Signal Generator	Agilent	N5173B	MY53270267	2022/07/12	2023/07/11
☒	S-Parameter Network Analyzer	Agilent	E5071C	MY46527453	2022/06/21	2023/06/20
☒	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A
☒	Power sensor	KEYSIGHT	U2021XA	MY57110007	2022/07/12	2023/7/11
☒	universal Radio communication tester	R&S	CMW500	154501	2023/03/20	2024/03/19
☒	DAE	SPEAG	DAE4	760	2022/06/06	2023/06/05
☒	E-field PROBE	SPEAG	EX3DV4	3836	2022/06/27	2023/06/26
☒	Dipole	SPEAG	D750V3	1188	2022/03/29	2025/03/28
☒	Dipole	SPEAG	D835V2	4d042	2022/06/8	2025/06/07
☒	Dipole	SPEAG	D1800V2	254	2022/06/16	2025/06/15
☒	Dipole	SPEAG	D1900V2	5d136	2022/06/07	2025/06/06
☒	Dipole	SPEAG	D2450V2	955	2022/06/06	2025/06/05
☒	Dipole	SPEAG	D2600V2	1158	2022/03/31	2025/03/30
☒	Dipole	SPEAG	D5GHzV2	1042	2022/06/01	2025/05/31
☒	Electro Thermometer	MITIR	N/A	N/A	2022/06/02	2023/06/01
☒	Amplifier	Mini-circuits	ZVE-3W-83+	857501833	N/A	N/A
☒	Amplifier	Mini-circuits	ZHL-42W	A0950002	N/A	N/A
☒	3db ATTENUATOR	SHX	SMA-3dB-6G	12021302	N/A	N/A
☒	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
☒	Dual Directional Coupler	Agilent	772D	MY46151275	N/A	N/A
☒	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A
☒	ELI V8.0	SPEAG	QDOVA004AA	2062	N/A	N/A
☒	Twin SAM Phantom	SPEAG	QD000P40CD	1673	N/A	N/A
	Twin Phantom	SPEAG	QD000P40CB	1438	N/A	N/A
☒	ROBOT KRC	SPEAG	CS8	SP1/D/211/421/00	N/A	N/A
☒	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A



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