

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	20300/1745	1.13	1.08	1.0462963	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.11 SAR Result of LTE Band 5

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	20525/836.5	1:1	0.462	-0.02	23.78	24.00	1.052	0.486	22.1
Left tilted	10	QPSK 1RB_0	20525/836.5	1:1	0.065	0.04	23.78	24.00	1.052	0.068	22.1
Right cheek	10	QPSK 1RB_0	20525/836.5	1:1	0.402	0.10	23.78	24.00	1.052	0.423	22.1
Right tilted	10	QPSK 1RB_0	20525/836.5	1:1	0.091	0.13	23.78	24.00	1.052	0.096	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	20450/829	1:1	0.412	0.01	22.67	23.00	1.079	0.445	22.1
Left tilted	10	QPSK 25RB_13	20450/829	1:1	0.052	0.09	22.67	23.00	1.079	0.056	22.1
Right cheek	10	QPSK 25RB_13	20450/829	1:1	0.385	0.09	22.67	23.00	1.079	0.415	22.1
Right tilted	10	QPSK 25RB_13	20450/829	1:1	0.079	0.06	22.67	23.00	1.079	0.085	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.181	0.04	23.78	24.00	1.052	0.190	22.1
Back side	10	QPSK 1RB_0	20525/836.5	1:1	0.162	-0.14	23.78	24.00	1.052	0.170	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	20450/829	1:1	0.142	0.04	22.67	23.00	1.079	0.153	22.1
Back side	10	QPSK 25RB_13	20450/829	1:1	0.144	-0.20	22.67	23.00	1.079	0.155	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.181	0.04	23.78	24.00	1.052	0.190	22.1
Back side	10	QPSK 1RB_0	20525/836.5	1:1	0.162	-0.14	23.78	24.00	1.052	0.170	22.1
Left side	10	QPSK 1RB_0	20525/836.5	1:1	0.303	0.05	23.78	24.00	1.052	0.319	22.1
Right side	10	QPSK 1RB_0	20525/836.5	1:1	0.006	0.14	23.78	24.00	1.052	0.006	22.1
Top side	10	QPSK 1RB_0	20525/836.5	1:1	0.014	0.01	23.78	24.00	1.052	0.014	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	20450/829	1:1	0.142	0.04	22.67	23.00	1.079	0.153	22.1
Back side	10	QPSK 25RB_13	20450/829	1:1	0.144	-0.20	22.67	23.00	1.079	0.155	22.1
Left side	10	QPSK 25RB_13	20450/829	1:1	0.269	0.06	22.67	23.00	1.079	0.290	22.1
Right side	10	QPSK 25RB_13	20450/829	1:1	0.004	0.01	22.67	23.00	1.079	0.005	22.1
Top side	10	QPSK 25RB_13	20450/829	1:1	0.010	0.03	22.67	23.00	1.079	0.011	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_25	20600/844	1:1	0.093	-0.15	23.90	24.00	1.023	0.095	22.1
Left tilted	10	QPSK 1RB_25	20600/844	1:1	0.060	0.15	23.90	24.00	1.023	0.061	22.1
Right cheek	10	QPSK 1RB_25	20600/844	1:1	0.156	0.07	23.90	24.00	1.023	0.160	22.1
Right tilted	10	QPSK 1RB_25	20600/844	1:1	0.073	0.08	23.90	24.00	1.023	0.075	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	20525/836.5	1:1	0.075	0.02	22.16	23.00	1.213	0.090	22.1
Left tilted	10	QPSK 25RB_13	20525/836.5	1:1	0.049	0.20	22.16	23.00	1.213	0.060	22.1
Right cheek	10	QPSK 25RB_13	20525/836.5	1:1	0.115	0.02	22.16	23.00	1.213	0.140	22.1
Right tilted	10	QPSK 25RB_13	20525/836.5	1:1	0.060	0.03	22.16	23.00	1.213	0.073	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	20600/844	1:1	0.277	-0.10	23.90	24.00	1.023	0.283	22.1
Back side	10	QPSK 1RB_25	20600/844	1:1	0.253	0.11	23.90	24.00	1.023	0.259	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	20525/836.5	1:1	0.250	-0.02	22.16	23.00	1.213	0.303	22.1
Back side	10	QPSK 25RB_13	20525/836.5	1:1	0.207	0.07	22.16	23.00	1.213	0.251	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	20600/844	1:1	0.277	-0.10	23.90	24.00	1.023	0.283	22.1
Back side	10	QPSK 1RB_25	20600/844	1:1	0.253	0.11	23.90	24.00	1.023	0.259	22.1
Left side	10	QPSK 1RB_25	20600/844	1:1	0.055	0.13	23.90	24.00	1.023	0.056	22.1
Right side	10	QPSK 1RB_25	20600/844	1:1	0.137	0.14	23.90	24.00	1.023	0.140	22.1
Bottom side	10	QPSK 1RB_25	20600/844	1:1	0.283	0.20	23.90	24.00	1.023	0.290	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	20525/836.5	1:1	0.250	-0.02	22.16	23.00	1.213	0.303	22.1
Back side	10	QPSK 25RB_13	20525/836.5	1:1	0.207	0.07	22.16	23.00	1.213	0.251	22.1
Left side	10	QPSK 25RB_13	20525/836.5	1:1	0.048	0.19	22.16	23.00	1.213	0.058	22.1
Right side	10	QPSK 25RB_13	20525/836.5	1:1	0.139	0.16	22.16	23.00	1.213	0.169	22.1



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Bottom side	10	QPSK 25RB_13	20525/836.5	1:1	0.233	0.04	22.16	23.00	1.213	0.283	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	10	QPSK 1RB_0	20525/836.5	1:1	0.455	0.11	23.78	24.00	1.052	0.479	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.174	0.01	23.78	24.00	1.052	0.183	22.1
Hotspot Test data at the worst case with Second supply											
Left side	10	QPSK 1RB_0	20525/836.5	1:1	0.281	-0.17	23.78	24.00	1.052	0.296	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	10	QPSK 1RB_25	20600/844	1:1	0.151	0.03	23.90	24.00	1.023	0.155	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 25RB_13	20525/836.5	1:1	0.230	0.17	22.16	23.00	1.213	0.279	22.1
Hotspot Test data at the worst case with Second supply											
Front side	10	QPSK 25RB_13	20525/836.5	1:1	0.230	0.17	22.16	23.00	1.213	0.279	22.1

Table 21: SAR of LTE Band 5 for Head and Body.



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8.2.12 SAR Result of LTE Band 7

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)-1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	20850/2510	1:1	0.402	0.03	17.77	18.00	1.054	0.424	22.1
Left tilted	20	QPSK 1RB_99	20850/2510	1:1	0.098	0.13	17.77	18.00	1.054	0.103	22.1
Right cheek	20	QPSK 1RB_99	20850/2510	1:1	0.959	0.07	17.77	18.00	1.054	1.011	22.1
Right tilted	20	QPSK 1RB_99	20850/2510	1:1	0.248	0.08	17.77	18.00	1.054	0.261	22.1
Right cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.933	0.02	17.55	18.00	1.109	1.035	22.1
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.890	0.07	17.50	18.00	1.122	0.999	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	20850/2510	1:1	0.423	-0.01	17.93	18.00	1.016	0.430	22.1
Left tilted	20	QPSK 50RB_25	20850/2510	1:1	0.101	-0.02	17.93	18.00	1.016	0.103	22.1
Right cheek	20	QPSK 50RB_25	20850/2510	1:1	1.000	0.05	17.93	18.00	1.016	1.016	22.1
Right tilted	20	QPSK 50RB_25	20850/2510	1:1	0.262	0.14	17.93	18.00	1.016	0.266	22.1
Right cheek	20	QPSK 50RB_50	21100/2535.5	1:1	0.969	0.08	17.71	18.00	1.069	1.036	22.1
Right cheek	20	QPSK 50RB_25	21350/2560	1:1	0.948	0.04	17.61	18.00	1.094	1.037	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	20850/2510	1:1	1.010	0.04	17.86	18.00	1.033	1.043	22.1
Right cheek-repeat	20	QPSK 100RB_0	20850/2510	1:1	0.996	0.14	17.86	18.00	1.033	1.029	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_99	21100/2535.5	1:1	0.726	-0.02	22.61	23.00	1.094	0.794	22.1
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.707	0.01	22.61	23.00	1.094	0.773	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.732	-0.02	22.38	23.00	1.153	0.844	22.1
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.706	-0.02	22.38	23.00	1.153	0.814	22.1
Front side	20	QPSK 50RB_25	21100/2535.5	1:1	0.723	0.04	22.35	23.00	1.161	0.840	22.1
Front side	20	QPSK 50RB_25	21350/2560	1:1	0.697	0.08	22.34	23.00	1.164	0.811	22.1
Back side	20	QPSK 50RB_25	21100/2535.5	1:1	0.702	0.06	22.35	23.00	1.161	0.815	22.1
Back side	20	QPSK 50RB_25	21350/2560	1:1	0.671	0.00	22.34	23.00	1.164	0.781	22.1
Body worn Test data (Separate 10mm 100%RB) Sensor on											
Front side	20	QPSK 100RB_0	21350/2560	1:1	0.713	0.07	22.43	23.00	1.140	0.813	22.1
Back side	20	QPSK 100RB_0	21350/2560	1:1	0.674	-0.05	22.43	23.00	1.140	0.769	22.1
Body worn Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.586	0.18	23.40	24.00	1.148	0.673	22.1
Back side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.301	0.04	23.40	24.00	1.148	0.346	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK 50RB_25	20850/2510	1:1	0.502	-0.01	22.38	23.00	1.153	0.579	22.1
Back side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.213	0.02	22.38	23.00	1.153	0.246	22.1
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	20	QPSK 1RB_99	21100/2535.5	1:1	0.726	-0.02	22.61	23.00	1.094	0.794	22.1
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.707	0.01	22.61	23.00	1.094	0.773	22.1
Left side	20	QPSK 1RB_99	21100/2535.5	1:1	0.942	-0.05	22.61	23.00	1.094	1.031	22.1
Right side	20	QPSK 1RB_99	21100/2535.5	1:1	0.026	0.02	22.61	23.00	1.094	0.029	22.1
Top side	20	QPSK 1RB_99	21100/2535.5	1:1	0.164	0.04	22.61	23.00	1.094	0.179	22.1
Left side	20	QPSK 1RB_99	20850/2510	1:1	0.974	0.09	22.60	23.00	1.096	1.068	22.1
Left side	20	QPSK 1RB_99	21350/2560	1:1	0.881	0.09	22.51	23.00	1.119	0.986	22.1
Hotspot Test data(Separate 10mm 50%RB)Sensor on											
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.732	-0.02	22.38	23.00	1.153	0.844	22.1
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.706	-0.02	22.38	23.00	1.153	0.814	22.1
Left side	20	QPSK 50RB_25	20850/2510	1:1	0.982	0.05	22.38	23.00	1.153	1.133	22.1
Left side-repeat	20	QPSK 50RB_25	20850/2510	1:1	0.959	0.04	22.38	23.00	1.153	1.106	22.1
Right side	20	QPSK 50RB_25	20850/2510	1:1	0.234	0.08	22.38	23.00	1.153	0.270	22.1
Top side	20	QPSK 50RB_25	20850/2510	1:1	0.156	0.18	22.38	23.00	1.153	0.180	22.1
Front side	20	QPSK 50RB_25	21100/2535.5	1:1	0.723	0.04	22.35	23.00	1.161	0.840	22.1
Front side	20	QPSK 50RB_25	21350/2560	1:1	0.697	0.08	22.34	23.00	1.164	0.811	22.1
Back side	20	QPSK 50RB_25	21100/2535.5	1:1	0.702	0.06	22.35	23.00	1.161	0.815	22.1
Back side	20	QPSK 50RB_25	21350/2560	1:1	0.671	0.00	22.34	23.00	1.164	0.781	22.1
Left side	20	QPSK 50RB_25	21100/2535.5	1:1	0.928	0.10	22.35	23.00	1.161	1.078	22.1
Left side	20	QPSK 50RB_25	21350/2560	1:1	0.900	0.12	22.34	23.00	1.164	1.048	22.1
Hotspot Test data(Separate 10mm 100%RB)Sensor on											



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Front side	20	QPSK 100RB_0	21350/2560	1:1	0.713	0.07	22.43	23.00	1.140	0.813	22.1
Back side	20	QPSK 100RB_0	21350/2560	1:1	0.674	-0.05	22.43	23.00	1.140	0.769	22.1
Left side	20	QPSK 100RB_0	21350/2560	1:1	0.906	0.10	22.43	23.00	1.140	1.033	22.1
Hotspot Test data(Separate 10mm 1RB)Sensor off											
Front side-15mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.586	0.18	23.40	24.00	1.148	0.673	22.1
Back side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.301	0.04	23.40	24.00	1.148	0.346	22.1
Left side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.477	0.08	23.40	24.00	1.148	0.548	22.1
Right side-15mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.021	0.06	23.40	24.00	1.148	0.024	22.1
Top side-14mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.130	0.06	23.40	24.00	1.148	0.149	22.1
Hotspot Test data (Separate 10mm 50%RB)Sensor off											
Front side-15mm	20	QPSK 50RB_25	20850/2510	1:1	0.502	-0.01	22.38	23.00	1.153	0.579	22.1
Back side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.213	0.02	22.38	23.00	1.153	0.246	22.1
Left side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.400	0.03	22.38	23.00	1.153	0.461	22.1
Right side-15mm	20	QPSK 50RB_25	20850/2510	1:1	0.025	-0.07	22.38	23.00	1.153	0.029	22.1
Top side-14mm	20	QPSK 50RB_25	20850/2510	1:1	0.104	0.01	22.38	23.00	1.153	0.120	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor on											
Left side	20	QPSK 1RB_99	21100/2535.5	1:1	1.310	-0.10	22.61	23.00	1.094	1.433	22.1
Product specific 10g SAR Test data(Separate 0mm 50%RB)Sensor on											
Left side	20	QPSK 50RB_25	20850/2510	1:1	1.450	-0.13	22.38	23.00	1.153	1.673	22.1
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor off											
Left side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.253	0.08	23.40	24.00	1.148	0.290	22.1
Product specific 10g SAR Test data(Separate 0mm 50%RB)Sensor off											
Left side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.213	0.03	22.38	23.00	1.153	0.246	22.1
ANTO											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.040	0.19	22.55	24.00	1.396	0.055	22.1
Left tilted	20	QPSK 1RB_99	21100/2535.5	1:1	0.014	0.18	22.55	24.00	1.396	0.019	22.1
Right cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.018	0.08	22.55	24.00	1.396	0.026	22.1
Right tilted	20	QPSK 1RB_99	21100/2535.5	1:1	0.025	0.02	22.55	24.00	1.396	0.035	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	20850/2510	1:1	0.013	0.07	21.67	23.00	1.358	0.017	22.1
Left tilted	20	QPSK 50RB_25	20850/2510	1:1	0.009	0.14	21.67	23.00	1.358	0.012	22.1
Right cheek	20	QPSK 50RB_25	20850/2510	1:1	0.020	0.00	21.67	23.00	1.358	0.027	22.1
Right tilted	20	QPSK 50RB_25	20850/2510	1:1	0.016	0.11	21.67	23.00	1.358	0.022	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_99	21100/2535.5	1:1	0.384	-0.08	20.71	22.00	1.346	0.517	22.1
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.455	0.09	20.71	22.00	1.346	0.612	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.430	-0.06	20.81	22.00	1.315	0.566	22.1
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.481	0.00	20.81	22.00	1.315	0.633	22.1
Body worn Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.213	-0.09	22.55	24.00	1.396	0.297	22.1
Back side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.214	0.08	22.55	24.00	1.396	0.299	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK 50RB_25	20850/2510	1:1	0.244	-0.08	21.67	23.00	1.358	0.331	22.1
Back side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.227	-0.03	21.67	23.00	1.358	0.308	22.1
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_99	21100/2535.5	1:1	0.384	-0.08	20.71	22.00	1.346	0.517	22.1
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.455	0.09	20.71	22.00	1.346	0.612	22.1
Left side	20	QPSK 1RB_99	21100/2535.5	1:1	0.034	-0.13	20.71	22.00	1.346	0.046	22.1
Right side	20	QPSK 1RB_99	21100/2535.5	1:1	0.115	0.19	20.71	22.00	1.346	0.155	22.1
Bottom side	20	QPSK 1RB_99	21100/2535.5	1:1	0.922	0.02	20.71	22.00	1.346	1.241	22.1
Bottom side	20	QPSK 1RB_99	20850/2510	1:1	0.980	0.01	20.68	22.00	1.355	1.328	22.1
Bottom side	20	QPSK 1RB_99	21350/2560	1:1	0.807	-0.12	20.70	22.00	1.349	1.089	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.430	-0.06	20.81	22.00	1.315	0.566	22.1
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.481	0.00	20.81	22.00	1.315	0.633	22.1
Left side	20	QPSK 50RB_25	20850/2510	1:1	0.027	-0.04	20.81	22.00	1.315	0.036	22.1
Right side	20	QPSK 50RB_25	20850/2510	1:1	0.108	0.07	20.81	22.00	1.315	0.142	22.1



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Bottom side	20	QPSK 50RB_25	20850/2510	1:1	1.030	0.01	20.81	22.00	1.315	1.355	22.1
Bottom side-repeat	20	QPSK 50RB_25	20850/2510	1:1	1.010	0.05	20.81	22.00	1.315	1.328	22.1
Bottom side	20	QPSK 50RB_50	21100/2535.5	1:1	0.996	-0.04	20.74	22.00	1.337	1.331	22.1
Bottom side	20	QPSK 50RB_50	21350/2560	1:1	0.859	-0.10	20.79	22.00	1.321	1.135	22.1
Hotspot Test data (Separate 10mm 100%RB) Sensor on											
Bottom side	20	QPSK 100RB_0	20850/2510	1:1	1.020	-0.11	20.80	22.00	1.318	1.345	22.1
Hotspot Test data (Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.213	-0.09	22.55	24.00	1.396	0.297	22.1
Back side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.214	0.08	22.55	24.00	1.396	0.299	22.1
Left side-17mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.035	-0.01	22.55	24.00	1.396	0.049	22.1
Right side-15mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.103	-0.06	22.55	24.00	1.396	0.144	22.1
Bottom side-19mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.291	-0.02	22.55	24.00	1.396	0.406	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK 50RB_25	20850/2510	1:1	0.244	-0.08	21.67	23.00	1.358	0.331	22.1
Back side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.227	-0.03	21.67	23.00	1.358	0.308	22.1
Left side-17mm	20	QPSK 50RB_25	20850/2510	1:1	0.015	0.00	21.67	23.00	1.358	0.020	22.1
Right side-15mm	20	QPSK 50RB_25	20850/2510	1:1	0.083	0.05	21.67	23.00	1.358	0.113	22.1
Bottom side-19mm	20	QPSK 50RB_25	20850/2510	1:1	0.343	0.03	21.67	23.00	1.358	0.466	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on											
Bottom side	20	QPSK 1RB_99	21100/2535.5	1:1	1.470	0.05	20.71	22.00	1.346	1.978	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on											
Bottom side	20	QPSK 50RB_25	20850/2510	1:1	1.510	0.02	20.81	22.00	1.315	1.986	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off											
Bottom side-19mm	20	QPSK 1RB_99	21100/2535.5	1:1	0.152	-0.02	22.55	24.00	1.396	0.212	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off											
Bottom side-19mm	20	QPSK 50RB_25	20850/2510	1:1	0.180	0.03	21.67	23.00	1.358	0.244	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK 100RB_0	20850/2510	1:1	0.950	0.01	17.86	18.00	1.033	0.981	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.711	-0.18	22.38	23.00	1.153	0.820	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK 50RB_25	20850/2510	1:1	0.932	0.18	22.38	23.00	1.153	1.075	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.020	0.11	22.55	24.00	1.396	0.028	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.441	-0.15	20.81	22.00	1.315	0.580	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK 50RB_25	20850/2510	1:1	0.960	-0.05	20.81	22.00	1.315	1.263	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data at the worst case with Second supply											
Bottom side	20	QPSK 50RB_25	20850/2510	1:1	1.390	0.07	20.81	22.00	1.315	1.828	22.1

Table 22: SAR of LTE Band 7 for Head and Body.



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	20850/2510	1.01	0.996	1.0140562	N/A	N/A
Left side	20850/2510	0.982	0.959	1.0239833	N/A	N/A
Bottom side	20850/2510	1.03	1.01	1.019802	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.13 SAR Result of LTE Band 12

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.660	-0.05	23.20	24.00	1.202	0.793	22.1
Left tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.114	0.05	23.20	24.00	1.202	0.137	22.1
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.553	-0.03	23.20	24.00	1.202	0.665	22.1
Right tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.111	0.05	23.20	24.00	1.202	0.133	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	23095/707.5	1:1	0.574	0.03	22.22	23.00	1.197	0.687	22.1
Left tilted	10	QPSK 25RB_25	23095/707.5	1:1	0.092	0.01	22.22	23.00	1.197	0.110	22.1
Right cheek	10	QPSK 25RB_25	23095/707.5	1:1	0.453	-0.09	22.22	23.00	1.197	0.542	22.1
Right tilted	10	QPSK 25RB_25	23095/707.5	1:1	0.090	0.01	22.22	23.00	1.197	0.107	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23095/707.5	1:1	0.199	0.04	23.20	24.00	1.202	0.239	22.1
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.174	-0.07	23.20	24.00	1.202	0.209	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23095/707.5	1:1	0.142	0.13	22.22	23.00	1.197	0.170	22.1
Back side	10	QPSK 25RB_25	23095/707.5	1:1	0.140	-0.07	22.22	23.00	1.197	0.168	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23095/707.5	1:1	0.199	0.04	23.20	24.00	1.202	0.239	22.1
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.174	-0.07	23.20	24.00	1.202	0.209	22.1
Left side	10	QPSK 1RB_49	23095/707.5	1:1	0.460	0.04	23.20	24.00	1.202	0.553	22.1
Right side	10	QPSK 1RB_49	23095/707.5	1:1	0.020	0.00	23.20	24.00	1.202	0.024	22.1
Top side	10	QPSK 1RB_49	23095/707.5	1:1	0.013	0.13	23.20	24.00	1.202	0.016	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23095/707.5	1:1	0.263	0.02	22.22	23.00	1.197	0.315	22.1
Back side	10	QPSK 25RB_25	23095/707.5	1:1	0.243	-0.12	22.22	23.00	1.197	0.291	22.1
Left side	10	QPSK 25RB_25	23095/707.5	1:1	0.364	0.07	22.22	23.00	1.197	0.436	22.1
Right side	10	QPSK 25RB_25	23095/707.5	1:1	0.002	-0.03	22.22	23.00	1.197	0.002	22.1
Top side	10	QPSK 25RB_25	23095/707.5	1:1	0.003	0.13	22.22	23.00	1.197	0.003	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23060/704	1:1	0.071	0.01	22.98	24.00	1.265	0.089	22.1
Left tilted	10	QPSK 1RB_49	23060/704	1:1	0.041	0.06	22.98	24.00	1.265	0.052	22.1
Right cheek	10	QPSK 1RB_49	23060/704	1:1	0.086	-0.19	22.98	24.00	1.265	0.109	22.1
Right tilted	10	QPSK 1RB_49	23060/704	1:1	0.042	0.08	22.98	24.00	1.265	0.053	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23095/707.5	1:1	0.056	0.04	22.11	23.00	1.227	0.068	22.1
Left tilted	10	QPSK 25RB_13	23095/707.5	1:1	0.034	0.02	22.11	23.00	1.227	0.042	22.1
Right cheek	10	QPSK 25RB_13	23095/707.5	1:1	0.074	0.06	22.11	23.00	1.227	0.090	22.1
Right tilted	10	QPSK 25RB_13	23095/707.5	1:1	0.036	0.19	22.11	23.00	1.227	0.044	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23060/704	1:1	0.146	0.02	22.98	24.00	1.265	0.185	22.1
Back side	10	QPSK 1RB_49	23060/704	1:1	0.123	0.09	22.98	24.00	1.265	0.156	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23095/707.5	1:1	0.108	0.01	22.11	23.00	1.227	0.133	22.1
Back side	10	QPSK 25RB_13	23095/707.5	1:1	0.101	0.13	22.11	23.00	1.227	0.124	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23060/704	1:1	0.146	0.02	22.98	24.00	1.265	0.185	22.1
Back side	10	QPSK 1RB_49	23060/704	1:1	0.123	0.09	22.98	24.00	1.265	0.156	22.1
Left side	10	QPSK 1RB_49	23060/704	1:1	0.048	0.10	22.98	24.00	1.265	0.061	22.1
Right side	10	QPSK 1RB_49	23060/704	1:1	0.184	-0.04	22.98	24.00	1.265	0.233	22.1
Bottom side	10	QPSK 1RB_49	23060/704	1:1	0.141	0.01	22.98	24.00	1.265	0.178	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23095/707.5	1:1	0.108	0.01	22.11	23.00	1.227	0.133	22.1
Back side	10	QPSK 25RB_13	23095/707.5	1:1	0.101	0.13	22.11	23.00	1.227	0.124	22.1
Left side	10	QPSK 25RB_13	23095/707.5	1:1	0.040	0.12	22.11	23.00	1.227	0.049	22.1
Right side	10	QPSK 25RB_13	23095/707.5	1:1	0.135	0.15	22.11	23.00	1.227	0.166	22.1



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Bottom side	10	QPSK 25RB_13	23095/707.5	1:1	0.118	0.20	22.11	23.00	1.227	0.145	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.623	0.01	23.20	24.00	1.202	0.749	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_49	23095/707.5	1:1	0.192	0.08	23.20	24.00	1.202	0.231	22.1
Hotspot Test data at the worst case with Second supply											
Left side	10	QPSK 1RB_49	23095/707.5	1:1	0.442	0.16	23.20	24.00	1.202	0.531	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	10	QPSK 1RB_49	23060/704	1:1	0.083	0.15	22.98	24.00	1.265	0.105	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_49	23060/704	1:1	0.139	0.01	22.98	24.00	1.265	0.176	22.1
Hotspot Test data at the worst case with Second supply											
Right side	10	QPSK 1RB_49	23060/704	1:1	0.181	-0.08	22.98	24.00	1.265	0.229	22.1
ANT1 ENDC											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.660	-0.05	23.20	20.50	0.537	0.354	22.1
Left tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.114	0.05	23.20	20.50	0.537	0.061	22.1
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.553	-0.03	23.20	20.50	0.537	0.297	22.1
Right tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.111	0.05	23.20	20.50	0.537	0.060	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	23095/707.5	1:1	0.574	0.03	22.22	20.50	0.673	0.386	22.1
Left tilted	10	QPSK 25RB_25	23095/707.5	1:1	0.092	0.01	22.22	20.50	0.673	0.062	22.1
Right cheek	10	QPSK 25RB_25	23095/707.5	1:1	0.453	-0.09	22.22	20.50	0.673	0.305	22.1
Right tilted	10	QPSK 25RB_25	23095/707.5	1:1	0.090	0.01	22.22	20.50	0.673	0.060	22.1

Table 23: SAR of LTE Band 12 for Head and Body.



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8.2.14 SAR Result of LTE Band 13

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_25	23230/782	1:1	0.243	0.08	23.55	24.00	1.109	0.270	22.1
Left tilted	10	QPSK 1RB_25	23230/782	1:1	0.041	0.05	23.55	24.00	1.109	0.046	22.1
Right cheek	10	QPSK 1RB_25	23230/782	1:1	0.215	0.08	23.55	24.00	1.109	0.238	22.1
Right tilted	10	QPSK 1RB_25	23230/782	1:1	0.041	0.06	23.55	24.00	1.109	0.046	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23230/782	1:1	0.205	0.02	22.55	23.00	1.109	0.227	22.1
Left tilted	10	QPSK 25RB_13	23230/782	1:1	0.034	0.08	22.55	23.00	1.109	0.038	22.1
Right cheek	10	QPSK 25RB_13	23230/782	1:1	0.175	0.02	22.55	23.00	1.109	0.194	22.1
Right tilted	10	QPSK 25RB_13	23230/782	1:1	0.034	0.20	22.55	23.00	1.109	0.037	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	23230/782	1:1	0.223	0.07	23.55	24.00	1.109	0.247	22.1
Back side	10	QPSK 1RB_25	23230/782	1:1	0.141	-0.14	23.55	24.00	1.109	0.156	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23230/782	1:1	0.121	0.04	22.55	23.00	1.109	0.134	22.1
Back side	10	QPSK 25RB_13	23230/782	1:1	0.111	-0.13	22.55	23.00	1.109	0.123	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	23230/782	1:1	0.223	0.07	23.55	24.00	1.109	0.247	22.1
Back side	10	QPSK 1RB_25	23230/782	1:1	0.141	-0.14	23.55	24.00	1.109	0.156	22.1
Left side	10	QPSK 1RB_25	23230/782	1:1	0.229	0.13	23.55	24.00	1.109	0.254	22.1
Right side	10	QPSK 1RB_25	23230/782	1:1	0.006	0.02	23.55	24.00	1.109	0.007	22.1
Top side	10	QPSK 1RB_25	23230/782	1:1	0.004	0.06	23.55	24.00	1.109	0.005	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23230/782	1:1	0.121	0.04	22.55	23.00	1.109	0.134	22.1
Back side	10	QPSK 25RB_13	23230/782	1:1	0.111	-0.13	22.55	23.00	1.109	0.123	22.1
Left side	10	QPSK 25RB_13	23230/782	1:1	0.173	0.02	22.55	23.00	1.109	0.192	22.1
Right side	10	QPSK 25RB_13	23230/782	1:1	0.005	0.09	22.55	23.00	1.109	0.005	22.1
Top side	10	QPSK 25RB_13	23230/782	1:1	0.003	0.07	22.55	23.00	1.109	0.003	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23230/782	1:1	0.067	0.02	23.10	24.00	1.230	0.083	22.1
Left tilted	10	QPSK 1RB_49	23230/782	1:1	0.047	0.03	23.10	24.00	1.230	0.058	22.1
Right cheek	10	QPSK 1RB_49	23230/782	1:1	0.111	0.13	23.10	24.00	1.230	0.137	22.1
Right tilted	10	QPSK 1RB_49	23230/782	1:1	0.058	0.03	23.10	24.00	1.230	0.071	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	23230/782	1:1	0.060	0.09	22.08	23.00	1.236	0.074	22.1
Left tilted	10	QPSK 25RB_25	23230/782	1:1	0.039	0.04	22.08	23.00	1.236	0.048	22.1
Right cheek	10	QPSK 25RB_25	23230/782	1:1	0.096	0.01	22.08	23.00	1.236	0.118	22.1
Right tilted	10	QPSK 25RB_25	23230/782	1:1	0.049	0.04	22.08	23.00	1.236	0.060	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23230/782	1:1	0.198	0.02	23.10	24.00	1.230	0.244	22.1
Back side	10	QPSK 1RB_49	23230/782	1:1	0.159	0.07	23.10	24.00	1.230	0.196	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23230/782	1:1	0.151	-0.05	22.08	23.00	1.236	0.187	22.1
Back side	10	QPSK 25RB_25	23230/782	1:1	0.130	0.10	22.08	23.00	1.236	0.161	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23230/782	1:1	0.198	0.02	23.10	24.00	1.230	0.244	22.1
Back side	10	QPSK 1RB_49	23230/782	1:1	0.159	0.07	23.10	24.00	1.230	0.196	22.1
Left side	10	QPSK 1RB_49	23230/782	1:1	0.067	0.12	23.10	24.00	1.230	0.082	22.1
Right side	10	QPSK 1RB_49	23230/782	1:1	0.135	0.14	23.10	24.00	1.230	0.166	22.1
Bottom side	10	QPSK 1RB_49	23230/782	1:1	0.197	0.18	23.10	24.00	1.230	0.242	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23230/782	1:1	0.151	-0.05	22.08	23.00	1.236	0.187	22.1
Back side	10	QPSK 25RB_25	23230/782	1:1	0.130	0.10	22.08	23.00	1.236	0.161	22.1
Left side	10	QPSK 25RB_25	23230/782	1:1	0.055	0.19	22.08	23.00	1.236	0.067	22.1
Right side	10	QPSK 25RB_25	23230/782	1:1	0.142	0.11	22.08	23.00	1.236	0.176	22.1



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Bottom side	10	QPSK 25RB_25	23230/782	1:1	0.160	0.19	22.08	23.00	1.236	0.198	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	10	QPSK 1RB_25	23230/782	1:1	0.221	0.11	23.55	24.00	1.109	0.245	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_25	23230/782	1:1	0.208	-0.08	23.55	24.00	1.109	0.231	22.1
Hotspot Test data at the worst case with Second supply											
Left side	10	QPSK 1RB_25	23230/782	1:1	0.211	0.13	23.55	24.00	1.109	0.234	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	10	QPSK 1RB_49	23230/782	1:1	0.103	0.06	23.10	24.00	1.230	0.127	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_49	23230/782	1:1	0.183	0.07	23.10	24.00	1.230	0.225	22.1
Hotspot Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_49	23230/782	1:1	0.183	0.07	23.10	24.00	1.230	0.225	22.1

Table 24: SAR of LTE Band 13 for Head and Body.



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8.2.15 SAR Result of LTE Band 14

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	23330/793	1:1	0.227	0.07	23.67	24.00	1.079	0.245	22.1
Left tilted	10	QPSK 1RB_0	23330/793	1:1	0.039	0.02	23.67	24.00	1.079	0.042	22.1
Right cheek	10	QPSK 1RB_0	23330/793	1:1	0.203	0.02	23.67	24.00	1.079	0.219	22.1
Right tilted	10	QPSK 1RB_0	23330/793	1:1	0.040	0.04	23.67	24.00	1.079	0.043	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23330/793	1:1	0.181	0.07	22.51	23.00	1.119	0.203	22.1
Left tilted	10	QPSK 25RB_13	23330/793	1:1	0.031	0.06	22.51	23.00	1.119	0.035	22.1
Right cheek	10	QPSK 25RB_13	23330/793	1:1	0.156	-0.07	22.51	23.00	1.119	0.175	22.1
Right tilted	10	QPSK 25RB_13	23330/793	1:1	0.031	0.07	22.51	23.00	1.119	0.035	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.202	0.10	23.67	24.00	1.079	0.218	22.1
Back side	10	QPSK 1RB_0	23330/793	1:1	0.117	-0.17	23.67	24.00	1.079	0.126	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23330/793	1:1	0.097	0.04	22.51	23.00	1.119	0.108	22.1
Back side	10	QPSK 25RB_13	23330/793	1:1	0.090	-0.17	22.51	23.00	1.119	0.101	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.202	0.10	23.67	24.00	1.079	0.218	22.1
Back side	10	QPSK 1RB_0	23330/793	1:1	0.117	-0.17	23.67	24.00	1.079	0.126	22.1
Left side	10	QPSK 1RB_0	23330/793	1:1	0.208	0.06	23.67	24.00	1.079	0.224	22.1
Right side	10	QPSK 1RB_0	23330/793	1:1	0.005	0.03	23.67	24.00	1.079	0.005	22.1
Top side	10	QPSK 1RB_0	23330/793	1:1	0.004	0.09	23.67	24.00	1.079	0.004	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23330/793	1:1	0.097	0.04	22.51	23.00	1.119	0.108	22.1
Back side	10	QPSK 25RB_13	23330/793	1:1	0.090	-0.17	22.51	23.00	1.119	0.101	22.1
Left side	10	QPSK 25RB_13	23330/793	1:1	0.151	0.03	22.51	23.00	1.119	0.169	22.1
Right side	10	QPSK 25RB_13	23330/793	1:1	0.003	0.07	22.51	23.00	1.119	0.004	22.1
Top side	10	QPSK 25RB_13	23330/793	1:1	0.003	0.07	22.51	23.00	1.119	0.003	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	23330/793	1:1	0.068	0.07	23.05	24.00	1.245	0.085	22.1
Left tilted	10	QPSK 1RB_0	23330/793	1:1	0.049	0.01	23.05	24.00	1.245	0.061	22.1
Right cheek	10	QPSK 1RB_0	23330/793	1:1	0.112	0.09	23.05	24.00	1.245	0.139	22.1
Right tilted	10	QPSK 1RB_0	23330/793	1:1	0.060	0.03	23.05	24.00	1.245	0.074	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23330/793	1:1	0.054	0.03	22.12	23.00	1.225	0.066	22.1
Left tilted	10	QPSK 25RB_13	23330/793	1:1	0.048	0.05	22.12	23.00	1.225	0.059	22.1
Right cheek	10	QPSK 25RB_13	23330/793	1:1	0.093	0.04	22.12	23.00	1.225	0.114	22.1
Right tilted	10	QPSK 25RB_13	23330/793	1:1	0.046	0.17	22.12	23.00	1.225	0.057	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.204	0.02	23.05	24.00	1.245	0.254	22.1
Back side	10	QPSK 1RB_0	23330/793	1:1	0.163	0.06	23.05	24.00	1.245	0.203	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23330/793	1:1	0.154	-0.04	22.12	23.00	1.225	0.189	22.1
Back side	10	QPSK 25RB_13	23330/793	1:1	0.133	0.08	22.12	23.00	1.225	0.163	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.204	0.02	23.05	24.00	1.245	0.254	22.1
Back side	10	QPSK 1RB_0	23330/793	1:1	0.163	0.06	23.05	24.00	1.245	0.203	22.1
Left side	10	QPSK 1RB_0	23330/793	1:1	0.067	0.14	23.05	24.00	1.245	0.084	22.1
Right side	10	QPSK 1RB_0	23330/793	1:1	0.175	0.15	23.05	24.00	1.245	0.218	22.1
Bottom side	10	QPSK 1RB_0	23330/793	1:1	0.202	0.20	23.05	24.00	1.245	0.251	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23330/793	1:1	0.154	-0.04	22.12	23.00	1.225	0.189	22.1
Back side	10	QPSK 25RB_13	23330/793	1:1	0.133	0.08	22.12	23.00	1.225	0.163	22.1
Left side	10	QPSK 25RB_13	23330/793	1:1	0.052	0.16	22.12	23.00	1.225	0.064	22.1
Right side	10	QPSK 25RB_13	23330/793	1:1	0.151	0.10	22.12	23.00	1.225	0.185	22.1



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Bottom side	10	QPSK 25RB_13	23330/793	1:1	0.163	0.02	22.12	23.00	1.225	0.200	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	10	QPSK 1RB_0	23330/793	1:1	0.208	0.03	23.67	24.00	1.079	0.224	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.201	0.04	23.67	24.00	1.079	0.217	22.1
Hotspot Test data at the worst case with Second supply											
Left side	10	QPSK 1RB_0	23330/793	1:1	0.205	0.09	23.67	24.00	1.079	0.221	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	10	QPSK 1RB_0	23330/793	1:1	0.109	0.07	23.05	24.00	1.245	0.136	22.1
Body worn Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.189	0.03	23.05	24.00	1.245	0.235	22.1
Hotspot Test data at the worst case with Second supply											
Front side	10	QPSK 1RB_0	23330/793	1:1	0.189	0.03	23.05	24.00	1.245	0.235	22.1

Table 25: SAR of LTE Band 14 for Head and Body.



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8.2.16 SAR Result of LTE Band 25

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	26140/1860	1:1	0.415	0.01	19.48	20.00	1.127	0.468	22.3
Left tilted	20	QPSK 1RB_99	26140/1860	1:1	0.112	0.05	19.48	20.00	1.127	0.126	22.3
Right cheek	20	QPSK 1RB_99	26140/1860	1:1	0.705	0.09	19.48	20.00	1.127	0.795	22.3
Right tilted	20	QPSK 1RB_99	26140/1860	1:1	0.182	0.05	19.48	20.00	1.127	0.205	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	26365/1882.5	1:1	0.450	0.06	19.51	20.00	1.119	0.504	22.3
Left tilted	20	QPSK 50RB_25	26365/1882.5	1:1	0.146	0.19	19.51	20.00	1.119	0.163	22.3
Right cheek	20	QPSK 50RB_25	26365/1882.5	1:1	0.770	0.05	19.51	20.00	1.119	0.862	22.3
Right tilted	20	QPSK 50RB_25	26365/1882.5	1:1	0.206	0.17	19.51	20.00	1.119	0.231	22.3
Right cheek	20	QPSK 50RB_25	26140/1860	1:1	0.725	0.04	19.47	20.00	1.130	0.819	22.3
Right cheek	20	QPSK 50RB_25	26590/1905	1:1	0.816	0.09	19.44	20.00	1.138	0.928	22.3
Right cheek-repeat	20	QPSK 50RB_25	26590/1905	1:1	0.804	0.16	19.44	20.00	1.138	0.915	22.3
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	26140/1860	1:1	0.718	0.09	19.51	20.00	1.119	0.804	22.3
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_99	26140/1860	1:1	0.321	0.18	22.59	23.00	1.099	0.353	22.3
Back side	20	QPSK 1RB_99	26140/1860	1:1	0.355	0.13	22.59	23.00	1.099	0.390	22.3
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK 50RB_25	26365/1882.5	1:1	0.328	0.17	22.55	23.00	1.109	0.364	22.3
Back side	20	QPSK 50RB_25	26365/1882.5	1:1	0.346	0.07	22.55	23.00	1.109	0.384	22.3
Body worn Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK 1RB_99	26140/1860	1:1	0.204	0.03	23.40	24.00	1.148	0.234	22.3
Back side-17mm	20	QPSK 1RB_99	26140/1860	1:1	0.235	-0.02	23.40	24.00	1.148	0.270	22.3
Body worn Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.168	-0.07	22.56	23.00	1.107	0.186	22.3
Back side-17mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.204	-0.02	22.56	23.00	1.107	0.226	22.3
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	20	QPSK 1RB_99	26140/1860	1:1	0.321	0.18	22.59	23.00	1.099	0.353	22.3
Back side	20	QPSK 1RB_99	26140/1860	1:1	0.355	0.13	22.59	23.00	1.099	0.390	22.3
Left side	20	QPSK 1RB_99	26140/1860	1:1	0.533	0.06	22.59	23.00	1.099	0.586	22.3
Right side	20	QPSK 1RB_99	26140/1860	1:1	0.026	0.05	22.59	23.00	1.099	0.028	22.3
Top side	20	QPSK 1RB_99	26140/1860	1:1	0.093	0.06	22.59	23.00	1.099	0.102	22.3
Hotspot Test data (Separate 10mm 50%RB)Sensor on											
Front side	20	QPSK 50RB_25	26365/1882.5	1:1	0.328	0.17	22.55	23.00	1.109	0.364	22.3
Back side	20	QPSK 50RB_25	26365/1882.5	1:1	0.346	0.07	22.55	23.00	1.109	0.384	22.3
Left side	20	QPSK 50RB_25	26365/1882.5	1:1	0.352	0.01	22.55	23.00	1.109	0.390	22.3
Right side	20	QPSK 50RB_25	26365/1882.5	1:1	0.027	0.09	22.55	23.00	1.109	0.030	22.3
Top side	20	QPSK 50RB_25	26365/1882.5	1:1	0.120	0.05	22.55	23.00	1.109	0.133	22.3
Hotspot Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK 1RB_99	26140/1860	1:1	0.204	0.03	23.40	24.00	1.148	0.234	22.3
Back side-17mm	20	QPSK 1RB_99	26140/1860	1:1	0.235	-0.02	23.40	24.00	1.148	0.270	22.3
Left side-17mm	20	QPSK 1RB_99	26140/1860	1:1	0.248	0.08	23.40	24.00	1.148	0.285	22.3
Right side-15mm	20	QPSK 1RB_99	26140/1860	1:1	0.033	0.09	23.40	24.00	1.148	0.038	22.3
Top side-14mm	20	QPSK 1RB_99	26140/1860	1:1	0.117	0.15	23.40	24.00	1.148	0.134	22.3
Hotspot Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.168	-0.07	22.56	23.00	1.107	0.186	22.3
Back side-17mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.204	-0.02	22.56	23.00	1.107	0.226	22.3
Left side-17mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.215	-0.01	22.56	23.00	1.107	0.238	22.3
Right side-15mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.029	0.11	22.56	23.00	1.107	0.032	22.3
Top side-14mm	20	QPSK 50RB_25	26365/1882.5	1:1	0.123	0.16	22.56	23.00	1.107	0.136	22.3
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	26140/1860	1:1	0.018	0.14	22.51	23.50	1.256	0.022	22.3
Left tilted	20	QPSK 1RB_0	26140/1860	1:1	0.006	0.02	22.51	23.50	1.256	0.008	22.3
Right cheek	20	QPSK 1RB_0	26140/1860	1:1	0.007	0.03	22.51	23.50	1.256	0.009	22.3



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Right tilted	20	QPSK 1RB_0	26140/1860	1:1	0.006	0.02	22.51	23.50	1.256	0.007	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	26140/1860	1:1	0.010	0.03	21.59	23.00	1.384	0.014	22.3
Left tilted	20	QPSK 50RB_50	26140/1860	1:1	0.007	0.03	21.59	23.00	1.384	0.010	22.3
Right cheek	20	QPSK 50RB_50	26140/1860	1:1	0.008	0.04	21.59	23.00	1.384	0.012	22.3
Right tilted	20	QPSK 50RB_50	26140/1860	1:1	0.005	0.06	21.59	23.00	1.384	0.006	22.3
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_0	26140/1860	1:1	0.489	0.09	21.81	22.50	1.172	0.573	22.3
Back side	20	QPSK 1RB_0	26140/1860	1:1	0.390	0.03	21.81	22.50	1.172	0.457	22.3
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK 50RB_50	26140/1860	1:1	0.463	0.02	21.72	22.50	1.197	0.554	22.3
Back side	20	QPSK 50RB_50	26140/1860	1:1	0.382	0.05	21.72	22.50	1.197	0.457	22.3
Body worn Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK 1RB_0	26140/1860	1:1	0.299	0.02	22.51	23.50	1.256	0.376	22.3
Back side-17mm	20	QPSK 1RB_0	26140/1860	1:1	0.227	0.04	22.51	23.50	1.256	0.285	22.3
Body worn Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK 50RB_50	26140/1860	1:1	0.210	-0.15	21.59	23.00	1.384	0.291	22.3
Back side-17mm	20	QPSK 50RB_50	26140/1860	1:1	0.189	0.01	21.59	23.00	1.384	0.261	22.3
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	20	QPSK 1RB_0	26140/1860	1:1	0.489	0.09	21.81	22.50	1.172	0.573	22.3
Back side	20	QPSK 1RB_0	26140/1860	1:1	0.390	0.03	21.81	22.50	1.172	0.457	22.3
Left side	20	QPSK 1RB_0	26140/1860	1:1	0.021	0.08	21.81	22.50	1.172	0.024	22.3
Right side	20	QPSK 1RB_0	26140/1860	1:1	0.036	0.08	21.81	22.50	1.172	0.042	22.3
Bottom side	20	QPSK 1RB_0	26140/1860	1:1	0.934	0.02	21.81	22.50	1.172	1.095	22.3
Bottom side	20	QPSK 1RB_0	26365/1882.5	1:1	1.010	0.17	21.69	22.50	1.205	1.217	22.3
Bottom side	20	QPSK 1RB_0	26590/1905	1:1	0.975	0.04	21.77	22.50	1.183	1.153	22.3
Hotspot Test data(Separate 10mm 50%RB)Sensor on											
Front side	20	QPSK 50RB_50	26140/1860	1:1	0.463	0.02	21.72	22.50	1.197	0.554	22.3
Back side	20	QPSK 50RB_50	26140/1860	1:1	0.382	0.05	21.72	22.50	1.197	0.457	22.3
Left side	20	QPSK 50RB_50	26140/1860	1:1	0.017	0.04	21.72	22.50	1.197	0.020	22.3
Right side	20	QPSK 50RB_50	26140/1860	1:1	0.035	0.07	21.72	22.50	1.197	0.042	22.3
Bottom side	20	QPSK 50RB_50	26140/1860	1:1	0.951	-0.04	21.72	22.50	1.197	1.138	22.3
Bottom side	20	QPSK 50RB_50	26365/1882.5	1:1	0.977	-0.03	21.57	22.50	1.239	1.210	22.3
Bottom side	20	QPSK 50RB_50	26590/1905	1:1	0.918	0.00	21.70	22.50	1.202	1.104	22.3
Hotspot Test data(Separate 10mm 100%RB)Sensor on											
Bottom side	20	QPSK 100RB_0	26365/1882.5	1:1	0.991	0.02	21.58	22.50	1.236	1.225	22.3
Bottom side-repeat	20	QPSK 100RB_0	26365/1882.5	1:1	0.985	0.17	21.58	22.50	1.236	1.217	22.3
Hotspot Test data(Separate 10mm 1RB)Sensor off											
Front side-15mm	20	QPSK 1RB_0	26140/1860	1:1	0.299	0.02	22.51	23.50	1.256	0.376	22.3
Back side-17mm	20	QPSK 1RB_0	26140/1860	1:1	0.227	0.04	22.51	23.50	1.256	0.285	22.3
Left side-17mm	20	QPSK 1RB_0	26140/1860	1:1	0.012	0.07	22.51	23.50	1.256	0.015	22.3
Right side-15mm	20	QPSK 1RB_0	26140/1860	1:1	0.031	0.01	22.51	23.50	1.256	0.039	22.3
Bottom side-19mm	20	QPSK 1RB_0	26140/1860	1:1	0.345	0.11	22.51	23.50	1.256	0.433	22.3
Hotspot Test data(Separate 10mm 50%RB)Sensor off											
Front side-15mm	20	QPSK 50RB_50	26140/1860	1:1	0.210	-0.15	21.59	23.00	1.384	0.291	22.3
Back side-17mm	20	QPSK 50RB_50	26140/1860	1:1	0.189	0.01	21.59	23.00	1.384	0.261	22.3
Left side-17mm	20	QPSK 50RB_50	26140/1860	1:1	0.008	0.16	21.59	23.00	1.384	0.011	22.3
Right side-15mm	20	QPSK 50RB_50	26140/1860	1:1	0.025	0.08	21.59	23.00	1.384	0.034	22.3
Bottom side-19mm	20	QPSK 50RB_50	26140/1860	1:1	0.300	0.02	21.59	23.00	1.384	0.415	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor on											
Bottom side	20	QPSK 1RB_0	26140/1860	1:1	2.080	0.06	21.81	22.50	1.172	2.438	22.3
Bottom side	20	QPSK 1RB_0	26365/1882.5	1:1	2.100	0.05	21.69	22.50	1.205	2.531	22.3
Bottom side	20	QPSK 1RB_0	26590/1905	1:1	1.980	0.04	21.77	22.50	1.183	2.342	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB)Sensor on											
Bottom side	20	QPSK 50RB_50	26140/1860	1:1	2.070	0.05	21.72	22.50	1.197	2.477	22.3
Bottom side	20	QPSK 50RB_50	26365/1882.5	1:1	2.040	0.06	21.57	22.50	1.239	2.527	22.3
Bottom side	20	QPSK 50RB_50	26590/1905	1:1	1.930	0.07	21.70	22.50	1.202	2.320	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB)Sensor on											
Bottom side	20	QPSK 100RB_0	26365/1882.5	1:1	2.040	0.04	21.58	22.50	1.236	2.521	22.3
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor off											
Bottom side-19mm	20	QPSK 1RB_0	26140/1860	1:1	0.198	0.11	22.51	23.50	1.256	0.249	22.1



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Product specific 10g SAR Test data (Separate 0mm 50%RB)Sensor off											
Bottom side-19mm	20	QPSK 50RB_50	26140/1860	1:1	0.169	0.02	21.59	23.00	1.384	0.234	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK 50RB_25	26590/1905	1:1	0.805	0.01	19.44	20.00	1.138	0.916	22.3
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_99	26140/1860	1:1	0.342	0.11	22.59	23.00	1.099	0.376	22.3
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK 1RB_99	26140/1860	1:1	0.500	0.09	22.59	23.00	1.099	0.550	22.3
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 1RB_0	26140/1860	1:1	0.013	0.08	22.51	23.50	1.256	0.016	22.3
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK 1RB_0	26140/1860	1:1	0.446	0.01	21.81	22.50	1.172	0.523	22.3
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK 100RB_0	26365/1882.5	1:1	0.928	0.17	21.58	22.50	1.236	1.147	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data at the worst case with Second supply											
Bottom side	20	QPSK 1RB_0	26365/1882.5	1:1	2.010	-0.04	21.69	22.50	1.205	2.422	22.3

Table 26: SAR of LTE Band 25 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	26590/1905	0.816	0.804	1.0149254	N/A	N/A
Bottom side	26365/1882.5	0.991	0.985	1.0060914	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

8.2.17 SAR Result of LTE Band 26

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_74	26765/821.5	1:1	0.492	0.14	23.63	24.00	1.089	0.536	22.1
Left tilted	15	QPSK 1RB_74	26765/821.5	1:1	0.074	-0.07	23.63	24.00	1.089	0.080	22.1
Right cheek	15	QPSK 1RB_74	26765/821.5	1:1	0.438	0.08	23.63	24.00	1.089	0.477	22.1
Right tilted	15	QPSK 1RB_74	26765/821.5	1:1	0.092	0.15	23.63	24.00	1.089	0.100	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_0	26765/821.5	1:1	0.377	0.10	22.70	23.00	1.072	0.404	22.1
Left tilted	15	QPSK 36RB_0	26765/821.5	1:1	0.065	0.04	22.70	23.00	1.072	0.070	22.1
Right cheek	15	QPSK 36RB_0	26765/821.5	1:1	0.390	-0.02	22.70	23.00	1.072	0.418	22.1
Right tilted	15	QPSK 36RB_0	26765/821.5	1:1	0.082	0.15	22.70	23.00	1.072	0.087	22.1
Body worn Test data(Separate 10mm 1RB)											



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Front side	15	QPSK 1RB_74	26765/821.5	1:1	0.284	0.11	23.63	24.00	1.089	0.309	22.1
Back side	15	QPSK 1RB_74	26765/821.5	1:1	0.290	-0.17	23.63	24.00	1.089	0.316	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_0	26765/821.5	1:1	0.189	0.17	22.70	23.00	1.072	0.203	22.1
Back side	15	QPSK 36RB_0	26765/821.5	1:1	0.180	-0.14	22.70	23.00	1.072	0.193	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_74	26765/821.5	1:1	0.284	0.11	23.63	24.00	1.089	0.309	22.1
Back side	15	QPSK 1RB_74	26765/821.5	1:1	0.290	-0.17	23.63	24.00	1.089	0.316	22.1
Left side	15	QPSK 1RB_74	26765/821.5	1:1	0.313	0.03	23.63	24.00	1.089	0.341	22.1
Right side	15	QPSK 1RB_74	26765/821.5	1:1	0.006	0.07	23.63	24.00	1.089	0.006	22.1
Top side	15	QPSK 1RB_74	26765/821.5	1:1	0.013	0.01	23.63	24.00	1.089	0.014	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_0	26765/821.5	1:1	0.189	0.17	22.70	23.00	1.072	0.203	22.1
Back side	15	QPSK 36RB_0	26765/821.5	1:1	0.180	-0.14	22.70	23.00	1.072	0.193	22.1
Left side	15	QPSK 36RB_0	26765/821.5	1:1	0.263	0.06	22.70	23.00	1.072	0.282	22.1
Right side	15	QPSK 36RB_0	26765/821.5	1:1	0.003	0.01	22.70	23.00	1.072	0.004	22.1
Top side	15	QPSK 36RB_0	26765/821.5	1:1	0.009	0.02	22.70	23.00	1.072	0.009	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_74	26865/831.5	1:1	0.087	0.09	22.92	24.00	1.282	0.111	22.1
Left tilted	15	QPSK 1RB_74	26865/831.5	1:1	0.061	0.19	22.92	24.00	1.282	0.078	22.1
Right cheek	15	QPSK 1RB_74	26865/831.5	1:1	0.155	0.08	22.92	24.00	1.282	0.199	22.1
Right tilted	15	QPSK 1RB_74	26865/831.5	1:1	0.072	0.16	22.92	24.00	1.282	0.092	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_39	26865/831.5	1:1	0.071	0.05	21.97	23.00	1.268	0.089	22.1
Left tilted	15	QPSK 36RB_39	26865/831.5	1:1	0.052	-0.09	21.97	23.00	1.268	0.065	22.1
Right cheek	15	QPSK 36RB_39	26865/831.5	1:1	0.122	0.01	21.97	23.00	1.268	0.155	22.1
Right tilted	15	QPSK 36RB_39	26865/831.5	1:1	0.062	0.17	21.97	23.00	1.268	0.078	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_74	26865/831.5	1:1	0.311	0.05	22.92	24.00	1.282	0.399	22.1
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.319	0.02	22.92	24.00	1.282	0.409	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_39	26865/831.5	1:1	0.219	-0.06	21.97	23.00	1.268	0.278	22.1
Back side	15	QPSK 36RB_39	26865/831.5	1:1	0.198	0.19	21.97	23.00	1.268	0.251	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_74	26865/831.5	1:1	0.311	0.05	22.92	24.00	1.282	0.399	22.1
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.319	0.02	22.92	24.00	1.282	0.409	22.1
Left side	15	QPSK 1RB_74	26865/831.5	1:1	0.066	0.04	22.92	24.00	1.282	0.085	22.1
Right side	15	QPSK 1RB_74	26865/831.5	1:1	0.195	0.09	22.92	24.00	1.282	0.250	22.1
Bottom side	15	QPSK 1RB_74	26865/831.5	1:1	0.280	0.17	22.92	24.00	1.282	0.359	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_39	26865/831.5	1:1	0.219	-0.06	21.97	23.00	1.268	0.278	22.1
Back side	15	QPSK 36RB_39	26865/831.5	1:1	0.198	0.19	21.97	23.00	1.268	0.251	22.1
Left side	15	QPSK 36RB_39	26865/831.5	1:1	0.055	0.16	21.97	23.00	1.268	0.070	22.1
Right side	15	QPSK 36RB_39	26865/831.5	1:1	0.164	0.10	21.97	23.00	1.268	0.208	22.1
Bottom side	15	QPSK 36RB_39	26865/831.5	1:1	0.229	0.01	21.97	23.00	1.268	0.290	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	15	QPSK 1RB_74	26765/821.5	1:1	0.471	0.12	23.63	24.00	1.089	0.513	22.1
Body worn Test data at the worst case with Second supply											
Back side	15	QPSK 1RB_74	26765/821.5	1:1	0.260	-0.17	23.63	24.00	1.089	0.283	22.1
Hotspot Test data at the worst case with Second supply											
Left side	15	QPSK 1RB_74	26765/821.5	1:1	0.300	0.11	23.63	24.00	1.089	0.327	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	15	QPSK 1RB_74	26865/831.5	1:1	0.147	-0.13	22.92	24.00	1.282	0.189	22.1
Body worn Test data at the worst case with Second supply											
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.308	-0.01	22.92	24.00	1.282	0.395	22.1



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Hotspot Test data at the worst case with Second supply											
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.308	-0.01	22.92	24.00	1.282	0.395	22.1

Table 27: SAR of LTE Band 26 for Head and Body.



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8.2.18 SAR Result of LTE Band 30

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	27710/2310	1:1	0.580	-0.08	18.71	19.00	1.069	0.620	22.1
Left tilted	10	QPSK 1RB_0	27710/2310	1:1	0.125	0.11	18.71	19.00	1.069	0.134	22.1
Right cheek	10	QPSK 1RB_0	27710/2310	1:1	1.200	0.16	18.71	19.00	1.069	1.283	22.1
Right tilted	10	QPSK 1RB_0	27710/2310	1:1	0.300	0.09	18.71	19.00	1.069	0.321	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	27710/2310	1:1	0.665	0.08	18.66	19.00	1.081	0.719	22.1
Left tilted	10	QPSK 25RB_13	27710/2310	1:1	0.131	0.04	18.66	19.00	1.081	0.142	22.1
Right cheek	10	QPSK 25RB_13	27710/2310	1:1	1.220	0.07	18.66	19.00	1.081	1.319	22.1
Right cheek-repeat	10	QPSK 25RB_13	27710/2310	1:1	1.180	0.02	18.66	19.00	1.081	1.276	22.1
Right tilted	10	QPSK 25RB_13	27710/2310	1:1	0.309	0.10	18.66	19.00	1.081	0.334	22.1
Head Test data(100%RB)											
Right cheek	10	QPSK 50RB_0	27710/2310	1:1	1.050	0.03	18.62	19.00	1.091	1.146	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	10	QPSK 1RB_0	27710/2310	1:1	0.731	0.14	22.80	23.00	1.047	0.765	22.1
Back side	10	QPSK 1RB_0	27710/2310	1:1	0.848	-0.10	22.80	23.00	1.047	0.888	22.1
Back side-repeat	10	QPSK 1RB_0	27710/2310	1:1	0.834	0.01	22.80	23.00	1.047	0.873	22.1
Body worn Test data(Separate 10mm 50%RB) Sensor on											
Front side	10	QPSK 25RB_13	27710/2310	1:1	0.703	0.14	22.67	23.00	1.079	0.758	22.1
Back side	10	QPSK 25RB_13	27710/2310	1:1	0.709	0.03	22.67	23.00	1.079	0.765	22.1
Body worn Test data(Separate 10mm 100%RB) Sensor on											
Back side	10	QPSK 50RB_0	27710/2310	1:1	0.690	0.01	22.53	23.00	1.114	0.769	22.1
Body worn Test data(1RB) Sensor off											
Front side-15mm	10	QPSK 1RB_0	27710/2310	1:1	0.430	0.19	23.62	24.00	1.091	0.469	22.1
Back side-17mm	10	QPSK 1RB_0	27710/2310	1:1	0.339	-0.08	23.62	24.00	1.091	0.370	22.1
Body worn Test data(50%RB) Sensor off											
Front side-15mm	10	QPSK 25RB_13	27710/2310	1:1	0.331	0.00	22.67	23.00	1.079	0.357	22.1
Back side-17mm	10	QPSK 25RB_13	27710/2310	1:1	0.277	0.12	22.67	23.00	1.079	0.299	22.1
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	10	QPSK 1RB_0	27710/2310	1:1	0.731	0.14	22.80	23.00	1.047	0.765	22.1
Back side	10	QPSK 1RB_0	27710/2310	1:1	0.848	-0.10	22.80	23.00	1.047	0.888	22.1
Left side	10	QPSK 1RB_0	27710/2310	1:1	1.090	0.08	22.80	23.00	1.047	1.141	22.1
Right side	10	QPSK 1RB_0	27710/2310	1:1	0.024	0.04	22.80	23.00	1.047	0.025	22.1
Top side	10	QPSK 1RB_0	27710/2310	1:1	0.127	0.02	22.80	23.00	1.047	0.133	22.1
Hotspot Test data(Separate 10mm 50%RB)Sensor on											
Front side	10	QPSK 25RB_13	27710/2310	1:1	0.703	0.14	22.67	23.00	1.079	0.758	22.1
Back side	10	QPSK 25RB_13	27710/2310	1:1	0.709	0.03	22.67	23.00	1.079	0.765	22.1
Left side	10	QPSK 25RB_13	27710/2310	1:1	1.030	0.09	22.67	23.00	1.079	1.111	22.1
Right side	10	QPSK 25RB_13	27710/2310	1:1	0.023	0.02	22.67	23.00	1.079	0.025	22.1
Top side	10	QPSK 25RB_13	27710/2310	1:1	0.132	-0.04	22.67	23.00	1.079	0.142	22.1
Hotspot Test data(Separate 10mm 100%RB)Sensor on											
Back side	10	QPSK 50RB_0	27710/2310	1:1	0.690	0.01	22.53	23.00	1.114	0.769	22.1
Left side	10	QPSK 50RB_0	27710/2310	1:1	1.070	-0.01	22.53	23.00	1.114	1.192	22.1
Left side -repeat	10	QPSK 50RB_0	27710/2310	1:1	1.050	-0.05	22.53	23.00	1.114	1.170	22.1
Hotspot Test data(1RB) Sensor off											
Front side-15mm	10	QPSK 1RB_0	27710/2310	1:1	0.430	0.19	23.62	24.00	1.091	0.469	22.1
Back side-17mm	10	QPSK 1RB_0	27710/2310	1:1	0.339	-0.08	23.62	24.00	1.091	0.370	22.1
Left side-17mm	10	QPSK 1RB_0	27710/2310	1:1	0.478	0.00	23.62	24.00	1.091	0.522	22.1
Right side-15mm	10	QPSK 1RB_0	27710/2310	1:1	0.015	-0.08	23.62	24.00	1.091	0.017	22.1
Top side-14mm	10	QPSK 1RB_0	27710/2310	1:1	0.073	0.04	23.62	24.00	1.091	0.080	22.1
Hotspot Test data(50%RB) Sensor off											
Front side-15mm	10	QPSK 25RB_13	27710/2310	1:1	0.331	0.00	22.67	23.00	1.079	0.357	22.1
Back side-17mm	10	QPSK 25RB_13	27710/2310	1:1	0.277	0.12	22.67	23.00	1.079	0.299	22.1
Left side-17mm	10	QPSK 25RB_13	27710/2310	1:1	0.402	0.06	22.67	23.00	1.079	0.434	22.1
Right side-15mm	10	QPSK 25RB_13	27710/2310	1:1	0.013	0.01	22.67	23.00	1.079	0.014	22.1
Top side-14mm	10	QPSK 25RB_13	27710/2310	1:1	0.073	0.00	22.67	23.00	1.079	0.079	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.



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g											
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor on											
Left side	10	QPSK 1RB_0	27710/2310	1:1	1.440	0.02	22.80	23.00	1.047	1.508	22.1
Product specific 10g SAR Test data(Separate 0mm 50%RB)Sensor on											
Left side	10	QPSK 25RB_13	27710/2310	1:1	1.430	0.12	22.67	23.00	1.079	1.543	22.1
Product specific 10g SAR Test data(1RB) Sensor off											
Left side-17mm	10	QPSK 1RB_0	27710/2310	1:1	0.255	0.00	23.62	24.00	1.091	0.278	22.1
Product specific 10g SAR Test data(50%RB) Sensor off											
Left side-17mm	10	QPSK 25RB_13	27710/2310	1:1	0.214	0.06	22.67	23.00	1.079	0.231	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	27710/2310	1:1	0.014	0.17	22.87	24.00	1.297	0.018	22.1
Left tilted	10	QPSK 1RB_0	27710/2310	1:1	0.007	0.06	22.87	24.00	1.297	0.009	22.1
Right cheek	10	QPSK 1RB_0	27710/2310	1:1	0.031	0.03	22.87	24.00	1.297	0.041	22.1
Right tilted	10	QPSK 1RB_0	27710/2310	1:1	0.013	0.07	22.87	24.00	1.297	0.016	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	27710/2310	1:1	0.011	0.02	21.65	23.00	1.365	0.015	22.1
Left tilted	10	QPSK 25RB_13	27710/2310	1:1	0.007	0.04	21.65	23.00	1.365	0.009	22.1
Right cheek	10	QPSK 25RB_13	27710/2310	1:1	0.030	0.09	21.65	23.00	1.365	0.041	22.1
Right tilted	10	QPSK 25RB_13	27710/2310	1:1	0.006	0.07	21.65	23.00	1.365	0.008	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	27710/2310	1:1	0.248	0.03	22.87	24.00	1.297	0.322	22.1
Back side	10	QPSK 1RB_0	27710/2310	1:1	0.308	-0.07	22.87	24.00	1.297	0.400	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	27710/2310	1:1	0.203	0.09	21.65	23.00	1.365	0.277	22.1
Back side	10	QPSK 25RB_13	27710/2310	1:1	0.231	0.05	21.65	23.00	1.365	0.315	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	27710/2310	1:1	0.248	0.03	22.87	24.00	1.297	0.322	22.1
Back side	10	QPSK 1RB_0	27710/2310	1:1	0.308	-0.07	22.87	24.00	1.297	0.400	22.1
Left side	10	QPSK 1RB_0	27710/2310	1:1	0.019	-0.07	22.87	24.00	1.297	0.025	22.1
Right side	10	QPSK 1RB_0	27710/2310	1:1	0.042	0.07	22.87	24.00	1.297	0.054	22.1
Bottom side	10	QPSK 1RB_0	27710/2310	1:1	0.517	0.04	22.87	24.00	1.297	0.671	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	27710/2310	1:1	0.203	0.09	21.65	23.00	1.365	0.277	22.1
Back side	10	QPSK 25RB_13	27710/2310	1:1	0.231	0.05	21.65	23.00	1.365	0.315	22.1
Left side	10	QPSK 25RB_13	27710/2310	1:1	0.015	0.02	21.65	23.00	1.365	0.021	22.1
Right side	10	QPSK 25RB_13	27710/2310	1:1	0.038	0.15	21.65	23.00	1.365	0.052	22.1
Bottom side	10	QPSK 25RB_13	27710/2310	1:1	0.426	-0.02	21.65	23.00	1.365	0.581	22.1
ANT1 with Simultaneous transmission											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	27710/2310	1:1	0.580	-0.08	18.71	18.00	0.849	0.493	22.1
Left tilted	10	QPSK 1RB_0	27710/2310	1:1	0.125	0.11	18.71	18.00	0.849	0.106	22.1
Right cheek	10	QPSK 1RB_0	27710/2310	1:1	1.200	0.16	18.71	18.00	0.849	1.019	22.1
Right tilted	10	QPSK 1RB_0	27710/2310	1:1	0.300	0.09	18.71	18.00	0.849	0.255	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	27710/2310	1:1	0.665	0.08	18.66	18.00	0.859	0.571	22.1
Left tilted	10	QPSK 25RB_13	27710/2310	1:1	0.131	0.04	18.66	18.00	0.859	0.113	22.1
Right cheek	10	QPSK 25RB_13	27710/2310	1:1	1.220	0.07	18.66	18.00	0.859	1.048	22.1
Right cheek-repeat	10	QPSK 25RB_13	27710/2310	1:1	1.180	0.02	18.66	18.00	0.859	1.014	22.1
Right tilted	10	QPSK 25RB_13	27710/2310	1:1	0.309	0.10	18.66	18.00	0.859	0.265	22.1
Head Test data(100%RB)											
Right cheek	10	QPSK 50RB_0	27710/2310	1:1	1.050	0.03	18.62	18.00	0.867	0.910	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	10	QPSK 25RB_13	27710/2310	1:1	1.090	0.02	18.66	19.00	1.081	1.179	22.1
Body worn Test data at the worst case with Second supply											
Back side	10	QPSK 1RB_0	27710/2310	1:1	0.818	-0.08	22.80	23.00	1.047	0.857	22.1
Hotspot Test data at the worst case with Second supply											



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Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Left side	10	QPSK 50RB_0	27710/2310	1:1	1.010	0.07	22.53	23.00	1.114	1.125	22.1
Product specific 10g SAR Test data at the worst case with Second supply											
Left side	10	QPSK 25RB_13	27710/2310	1:1	1.350	0.18	22.67	23.00	1.079	1.457	22.1
ANTO											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	10	QPSK 1RB_0	27710/2310	1:1	0.025	0.01	22.87	24.00	1.297	0.032	22.1
Body worn Test data at the worst case with Second supply											
Back side	10	QPSK 1RB_0	27710/2310	1:1	0.287	-0.04	22.87	24.00	1.297	0.372	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	10	QPSK 1RB_0	27710/2310	1:1	0.478	-0.19	22.87	24.00	1.297	0.620	22.1

Table 28: SAR of LTE Band 30 for Head and Body.



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8.2.19 SAR Result of LTE Band 38

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	37850/2580	1:1.58	0.499	-0.08	20.78	21.00	1.052	0.525	22.1
Left tilted	20	QPSK 1RB_0	37850/2580	1:1.58	0.168	-0.09	20.78	21.00	1.052	0.177	22.1
Right cheek	20	QPSK 1RB_0	37850/2580	1:1.58	1.330	0.03	20.78	21.00	1.052	1.399	22.1
Right cheek-repeat	20	QPSK 1RB_0	37850/2580	1:1.58	1.310	0.13	20.78	21.00	1.052	1.378	22.1
Right tilted	20	QPSK 1RB_0	37850/2580	1:1.58	0.367	0.02	20.78	21.00	1.052	0.386	22.1
Right cheek	20	QPSK 1RB_0	38000/2595	1:1.58	1.280	0.06	20.71	21.00	1.069	1.368	22.1
Right cheek	20	QPSK 1RB_0	38150/2610	1:1.58	1.280	0.06	20.68	21.00	1.076	1.378	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	37850/2580	1:1.58	0.521	0.17	20.86	21.00	1.033	0.538	22.1
Left tilted	20	QPSK 50RB_0	37850/2580	1:1.58	0.173	-0.07	20.86	21.00	1.033	0.179	22.1
Right cheek	20	QPSK 50RB_0	37850/2580	1:1.58	1.340	0.02	20.86	21.00	1.033	1.384	22.1
Right tilted	20	QPSK 50RB_0	37850/2580	1:1.58	0.374	0.06	20.86	21.00	1.033	0.386	22.1
Right cheek	20	QPSK 50RB_25	38000/2595	1:1.58	1.281	0.06	20.79	21.00	1.050	1.344	22.1
Right cheek	20	QPSK 50RB_25	38150/2610	1:1.58	1.260	0.06	20.73	21.00	1.064	1.341	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	37850/2580	1:1.58	1.330	0.14	20.87	21.00	1.030	1.370	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	38150/2610	1:1.58	0.627	0.06	22.38	24.00	1.452	0.910	22.1
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.506	-0.06	22.38	24.00	1.452	0.735	22.1
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.632	0.05	22.19	24.00	1.517	0.959	22.1
Front side	20	QPSK 1RB_50	38000/2595	1:1.58	0.620	0.11	22.31	24.00	1.476	0.915	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	38150/2610	1:1.58	0.503	-0.01	21.29	23.00	1.483	0.746	22.1
Back side	20	QPSK 50RB_25	38150/2610	1:1.58	0.408	0.16	21.29	23.00	1.483	0.605	22.1
Body worn Test data (Separate 10mm 100%RB)											
Front side	20	QPSK 100RB_0	38150/2610	1:1.58	0.482	0.08	21.31	23.00	1.476	0.711	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	38150/2610	1:1.58	0.627	0.06	22.38	24.00	1.452	0.910	22.1
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.506	-0.06	22.38	24.00	1.452	0.735	22.1
Left side	20	QPSK 1RB_0	38150/2610	1:1.58	0.716	0.03	22.38	24.00	1.452	1.040	22.1
Right side	20	QPSK 1RB_0	38150/2610	1:1.58	0.027	0.17	22.38	24.00	1.452	0.038	22.1
Top side	20	QPSK 1RB_0	38150/2610	1:1.58	0.122	-0.06	22.38	24.00	1.452	0.177	22.1
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.632	0.05	22.19	24.00	1.517	0.959	22.1
Front side	20	QPSK 1RB_50	38000/2595	1:1.58	0.620	0.11	22.31	24.00	1.476	0.915	22.1
Left side	20	QPSK 1RB_99	37850/2580	1:1.58	0.728	0.02	22.19	24.00	1.517	1.104	22.1
Left side	20	QPSK 1RB_50	38000/2595	1:1.58	0.728	-0.07	22.31	24.00	1.476	1.074	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	38150/2610	1:1.58	0.503	-0.01	21.29	23.00	1.483	0.746	22.1
Back side	20	QPSK 50RB_25	38150/2610	1:1.58	0.408	0.16	21.29	23.00	1.483	0.605	22.1
Left side	20	QPSK 50RB_25	38150/2610	1:1.58	0.532	-0.11	21.29	23.00	1.483	0.789	22.1
Right side	20	QPSK 50RB_25	38150/2610	1:1.58	0.023	-0.11	21.29	23.00	1.483	0.034	22.1
Top side	20	QPSK 50RB_25	38150/2610	1:1.58	0.105	0.12	21.29	23.00	1.483	0.156	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Front side	20	QPSK 100RB_0	38150/2610	1:1.58	0.482	0.08	21.31	23.00	1.476	0.711	22.1
Left side	20	QPSK 100RB_0	38150/2610	1:1.58	0.612	0.09	21.31	23.00	1.476	0.903	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.031	-0.12	22.76	24.00	1.330	0.041	22.1
Left tilted	20	QPSK 1RB_0	38000/2595	1:1.58	0.010	0.09	22.76	24.00	1.330	0.013	22.1
Right cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.020	0.00	22.76	24.00	1.330	0.027	22.1
Right tilted	20	QPSK 1RB_0	38000/2595	1:1.58	0.027	0.07	22.76	24.00	1.330	0.036	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	38150/2610	1:1.58	0.014	0.00	21.77	23.00	1.327	0.019	22.1
Left tilted	20	QPSK 50RB_50	38150/2610	1:1.58	0.009	0.05	21.77	23.00	1.327	0.011	22.1
Right cheek	20	QPSK 50RB_50	38150/2610	1:1.58	0.017	0.07	21.77	23.00	1.327	0.022	22.1



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Right tilted	20	QPSK 50RB_50	38150/2610	1:1.58	0.017	0.01	21.77	23.00	1.327	0.022	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	38000/2595	1:1.58	0.208	0.06	22.76	24.00	1.330	0.277	22.1
Back side	20	QPSK 1RB_0	38000/2595	1:1.58	0.374	0.08	22.76	24.00	1.330	0.498	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	38150/2610	1:1.58	0.172	0.06	21.77	23.00	1.327	0.228	22.1
Back side	20	QPSK 50RB_50	38150/2610	1:1.58	0.243	0.05	21.77	23.00	1.327	0.323	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	38000/2595	1:1.58	0.208	0.06	22.76	24.00	1.330	0.277	22.1
Back side	20	QPSK 1RB_0	38000/2595	1:1.58	0.374	0.08	22.76	24.00	1.330	0.498	22.1
Left side	20	QPSK 1RB_0	38000/2595	1:1.58	0.065	0.04	22.76	24.00	1.330	0.087	22.1
Right side	20	QPSK 1RB_0	38000/2595	1:1.58	0.119	0.12	22.76	24.00	1.330	0.158	22.1
Bottom side	20	QPSK 1RB_0	38000/2595	1:1.58	0.453	-0.05	22.76	24.00	1.330	0.603	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	38150/2610	1:1.58	0.172	0.06	21.77	23.00	1.327	0.228	22.1
Back side	20	QPSK 50RB_50	38150/2610	1:1.58	0.243	0.05	21.77	23.00	1.327	0.323	22.1
Left side	20	QPSK 50RB_50	38150/2610	1:1.58	0.053	-0.08	21.77	23.00	1.327	0.070	22.1
Right side	20	QPSK 50RB_50	38150/2610	1:1.58	0.099	0.08	21.77	23.00	1.327	0.132	22.1
Bottom side	20	QPSK 50RB_50	38150/2610	1:1.58	0.383	-0.02	21.77	23.00	1.327	0.508	22.1
ANT1 with Simultaneous transmission											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	37850/2580	1:1.58	0.499	-0.08	20.78	20.00	0.836	0.417	22.1
Left tilted	20	QPSK 1RB_0	37850/2580	1:1.58	0.168	-0.09	20.78	20.00	0.836	0.140	22.1
Right cheek	20	QPSK 1RB_0	37850/2580	1:1.58	1.330	0.03	20.78	20.00	0.836	1.111	22.1
Right cheek-repeat	20	QPSK 1RB_0	37850/2580	1:1.58	1.310	0.13	20.78	20.00	0.836	1.095	22.1
Right tilted	20	QPSK 1RB_0	37850/2580	1:1.58	0.367	0.02	20.78	20.00	0.836	0.307	22.1
Right cheek	20	QPSK 1RB_0	38000/2595	1:1.58	1.280	0.06	20.71	20.00	0.849	1.087	22.1
Right cheek	20	QPSK 1RB_0	38150/2610	1:1.58	1.280	0.06	20.68	20.00	0.855	1.094	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	37850/2580	1:1.58	0.521	0.17	20.86	20.00	0.820	0.427	22.1
Left tilted	20	QPSK 50RB_0	37850/2580	1:1.58	0.173	-0.07	20.86	20.00	0.820	0.142	22.1
Right cheek	20	QPSK 50RB_0	37850/2580	1:1.58	1.340	0.02	20.86	20.00	0.820	1.099	22.1
Right tilted	20	QPSK 50RB_0	37850/2580	1:1.58	0.374	0.06	20.86	20.00	0.820	0.307	22.1
Right cheek	20	QPSK 50RB_25	38000/2595	1:1.58	1.281	0.06	20.79	20.00	0.834	1.068	22.1
Right cheek	20	QPSK 50RB_25	38150/2610	1:1.58	1.260	0.06	20.73	20.00	0.845	1.065	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	37850/2580	1:1.58	1.330	0.14	20.87	20.00	0.818	1.089	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK 1RB_0	37850/2580	1:1.58	1.210	0.01	20.78	21.00	1.052	1.273	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.584	0.07	22.19	24.00	1.517	0.886	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK 1RB_99	37850/2580	1:1.58	0.715	0.09	22.19	24.00	1.517	1.085	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.022	-0.17	22.76	24.00	1.330	0.029	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_0	38000/2595	1:1.58	0.355	0.14	22.76	24.00	1.330	0.472	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK 1RB_0	38000/2595	1:1.58	0.431	0.03	22.76	24.00	1.330	0.573	22.1

Table 29: SAR of LTE Band 38 for Head and Body.



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	37850/2580	1.33	1.31	1.0152672	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

8.2.20 SAR Result of LTE Band 41

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	ANT1						
					SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.480	-0.04	20.97	21.00	1.007	0.483	22.1
Left tilted	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.298	0.17	20.97	21.00	1.007	0.300	22.1
Right cheek	20	QPSK 1RB_0	41055/2636.5	1:1.58	1.260	0.02	20.97	21.00	1.007	1.269	22.1
Right tilted	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.343	-0.05	20.97	21.00	1.007	0.345	22.1
Right cheek	20	QPSK 1RB_0	39750/2506	1:1.58	1.210	0.03	20.91	21.00	1.021	1.235	22.1
Right cheek	20	QPSK 1RB_0	40185/2549.5	1:1.58	1.190	0.02	20.64	21.00	1.086	1.293	22.1
Right cheek	20	QPSK 1RB_0	40620/2593	1:1.58	1.150	0.03	20.51	21.00	1.119	1.287	22.1
Right cheek	20	QPSK 1RB_0	41490/2680	1:1.58	1.120	0.02	20.69	21.00	1.074	1.203	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.491	0.16	20.95	21.00	1.012	0.497	22.1
Left tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.238	0.07	20.95	21.00	1.012	0.241	22.1
Right cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	1.280	0.01	20.95	21.00	1.012	1.295	22.1
Right cheek-repeat	20	QPSK 50RB_0	41055/2636.5	1:1.58	1.220	0.08	20.95	21.00	1.012	1.234	22.1
Right tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.363	0.02	20.95	21.00	1.012	0.367	22.1
Right cheek	20	QPSK 50RB_0	39750/2506	1:1.58	1.260	-0.04	20.94	21.00	1.014	1.278	22.1
Right cheek	20	QPSK 50RB_0	40185/2549.5	1:1.58	1.240	0.18	20.74	21.00	1.062	1.317	22.1
Right cheek	20	QPSK 50RB_0	40620/2593	1:1.58	1.170	0.03	20.61	21.00	1.094	1.280	22.1
Right cheek	20	QPSK 50RB_0	41490/2680	1:1.58	1.170	-0.04	20.75	21.00	1.059	1.239	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	41055/2636.5	1:1.58	1.260	0.08	20.96	21.00	1.009	1.272	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.605	0.00	23.49	24.00	1.125	0.680	22.1
Back side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.490	-0.01	23.49	24.00	1.125	0.551	22.1
Front side	20	QPSK 1RB_99	39750/2506	1:1.58	0.573	-0.07	23.22	24.00	1.197	0.686	22.1
Front side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.580	0.07	23.22	24.00	1.197	0.694	22.1
Front side	20	QPSK 1RB_0	40620/2593	1:1.58	0.559	0.09	23.47	24.00	1.130	0.632	22.1
Front side	20	QPSK 1RB_0	41490/2680	1:1.58	0.484	0.09	23.46	24.00	1.132	0.548	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.483	0.09	22.60	23.00	1.096	0.530	22.1
Back side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.385	0.10	22.60	23.00	1.096	0.422	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.605	0.00	23.49	24.00	1.125	0.680	22.1
Back side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.490	-0.01	23.49	24.00	1.125	0.551	22.1
Left side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.809	0.03	23.49	24.00	1.125	0.910	22.1
Left side-repeat	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.797	0.13	23.49	24.00	1.125	0.896	22.1
Right side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.030	-0.05	23.49	24.00	1.125	0.033	22.1
Top side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.139	0.14	23.49	24.00	1.125	0.156	22.1
Front side	20	QPSK 1RB_99	39750/2506	1:1.58	0.573	-0.07	23.22	24.00	1.197	0.686	22.1
Front side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.580	0.07	23.22	24.00	1.197	0.694	22.1
Front side	20	QPSK 1RB_0	40620/2593	1:1.58	0.559	0.09	23.47	24.00	1.130	0.632	22.1

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Front side	20	QPSK 1RB_0	41490/2680	1:1.58	0.484	0.09	23.46	24.00	1.132	0.548	22.1
Left side	20	QPSK 1RB_99	39750/2506	1:1.58	0.705	0.09	23.22	24.00	1.197	0.844	22.1
Left side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.691	0.09	23.22	24.00	1.197	0.827	22.1
Left side	20	QPSK 1RB_0	40620/2593	1:1.58	0.699	0.07	23.47	24.00	1.130	0.790	22.1
Left side	20	QPSK 1RB_0	41490/2680	1:1.58	0.733	0.06	23.46	24.00	1.132	0.830	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.483	0.09	22.60	23.00	1.096	0.530	22.1
Back side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.385	0.10	22.60	23.00	1.096	0.422	22.1
Left side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.647	0.02	22.60	23.00	1.096	0.709	22.1
Right side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.014	0.07	22.60	23.00	1.096	0.015	22.1
Top side	20	QPSK 50RB_25	41055/2636.5	1:1.58	0.109	0.09	22.60	23.00	1.096	0.120	22.1
Left side	20	QPSK 50RB_25	39750/2506	1:1.58	0.495	0.08	22.31	23.00	1.172	0.580	22.1
Left side	20	QPSK 50RB_50	40185/2549.5	1:1.58	0.580	0.04	22.42	23.00	1.143	0.663	22.1
Left side	20	QPSK 50RB_25	40620/2593	1:1.58	0.572	0.07	22.49	23.00	1.125	0.643	22.1
Left side	20	QPSK 50RB_0	41490/2680	1:1.58	0.595	0.04	22.56	23.00	1.107	0.658	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Left side	20	QPSK 100RB_0	40620/2593	1:1.58	0.573	0.07	22.49	23.00	1.125	0.644	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.036	0.02	22.72	24.00	1.343	0.048	22.1
Left tilted	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.015	0.06	22.72	24.00	1.343	0.020	22.1
Right cheek	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.024	0.09	22.72	24.00	1.343	0.032	22.1
Right tilted	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.031	0.18	22.72	24.00	1.343	0.041	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.019	0.08	21.82	23.00	1.312	0.025	22.1
Left tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.010	0.09	21.82	23.00	1.312	0.013	22.1
Right cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.018	0.00	21.82	23.00	1.312	0.024	22.1
Right tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.021	0.07	21.82	23.00	1.312	0.028	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.240	0.02	22.72	24.00	1.343	0.322	22.1
Back side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.274	0.10	22.72	24.00	1.343	0.368	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.185	0.07	21.82	23.00	1.312	0.243	22.1
Back side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.239	0.04	21.82	23.00	1.312	0.314	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.240	0.02	22.72	24.00	1.343	0.322	22.1
Back side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.274	0.10	22.72	24.00	1.343	0.368	22.1
Left side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.068	0.03	22.72	24.00	1.343	0.092	22.1
Right side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.123	0.10	22.72	24.00	1.343	0.165	22.1
Bottom side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.440	0.01	22.72	24.00	1.343	0.591	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.185	0.07	21.82	23.00	1.312	0.243	22.1
Back side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.239	0.04	21.82	23.00	1.312	0.314	22.1
Left side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.058	-0.11	21.82	23.00	1.312	0.076	22.1
Right side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.102	0.03	21.82	23.00	1.312	0.134	22.1
Bottom side	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.381	-0.03	21.82	23.00	1.312	0.500	22.1
ANT1 with Simultaneous transmission											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.480	-0.04	20.97	20.00	0.800	0.384	22.1
Left tilted	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.298	0.17	20.97	20.00	0.800	0.238	22.1
Right cheek	20	QPSK 1RB_0	41055/2636.5	1:1.58	1.260	0.02	20.97	20.00	0.800	1.008	22.1
Right tilted	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.343	-0.05	20.97	20.00	0.800	0.274	22.1
Right cheek	20	QPSK 1RB_0	39750/2506	1:1.58	1.210	0.03	20.91	20.00	0.811	0.981	22.1
Right cheek	20	QPSK 1RB_0	40185/2549.5	1:1.58	1.190	0.02	20.64	20.00	0.863	1.027	22.1
Right cheek	20	QPSK 1RB_0	40620/2593	1:1.58	1.150	0.03	20.51	20.00	0.889	1.023	22.1
Right cheek	20	QPSK 1RB_0	41490/2680	1:1.58	1.120	0.02	20.69	20.00	0.853	0.955	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.491	0.16	20.95	20.00	0.804	0.395	22.1
Left tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.238	0.07	20.95	20.00	0.804	0.191	22.1
Right cheek	20	QPSK 50RB_0	41055/2636.5	1:1.58	1.280	0.01	20.95	20.00	0.804	1.029	22.1



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Right tilted	20	QPSK 50RB_0	41055/2636.5	1:1.58	0.363	0.02	20.95	20.00	0.804	0.292	22.1
Right cheek	20	QPSK 50RB_0	39750/2506	1:1.58	1.260	-0.04	20.94	20.00	0.805	1.015	22.1
Right cheek	20	QPSK 50RB_0	40185/2549.5	1:1.58	1.240	0.18	20.74	20.00	0.843	1.046	22.1
Right cheek	20	QPSK 50RB_0	40620/2593	1:1.58	1.170	0.03	20.61	20.00	0.869	1.017	22.1
Right cheek	20	QPSK 50RB_0	41490/2680	1:1.58	1.170	-0.04	20.75	20.00	0.841	0.984	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	41055/2636.5	1:1.58	1.260	0.08	20.96	20.00	0.802	1.010	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK 50RB_0	40185/2549.5	1:1.58	1.120	0.11	20.74	21.00	1.062	1.189	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK 1RB_50	40185/2549.5	1:1.58	0.529	0.16	23.22	24.00	1.197	0.633	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK 1RB_0	41055/2636.5	1:1.58	0.753	-0.04	23.49	24.00	1.125	0.847	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.031	-0.05	22.72	24.00	1.343	0.042	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.255	0.07	22.72	24.00	1.343	0.342	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK 1RB_99	41055/2636.5	1:1.58	0.410	-0.17	22.72	24.00	1.343	0.551	22.1

Table 30: SAR of LTE Band 41 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	41055/2636.5	1.28	1.22	1.0491803	N/A	N/A
Left side	41055/2636.5	0.809	0.797	1.0150565	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.21 SAR Result of LTE Band 48

ANT2											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	56640/3690	1:1.58	0.506	-0.16	19.40	20.00	1.148	0.581	22.1
Left tilted	20	QPSK 1RB_50	56640/3690	1:1.58	0.669	0.08	19.40	20.00	1.148	0.768	22.1
Right cheek	20	QPSK 1RB_50	56640/3690	1:1.58	0.556	0.07	19.40	20.00	1.148	0.638	22.1
Right tilted	20	QPSK 1RB_50	56640/3690	1:1.58	0.430	0.07	19.40	20.00	1.148	0.494	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	56640/3690	1:1.58	0.553	-0.08	19.51	20.00	1.119	0.619	22.1
Left tilted	20	QPSK 50RB_50	56640/3690	1:1.58	0.679	0.05	19.51	20.00	1.119	0.760	22.1
Right cheek	20	QPSK 50RB_50	56640/3690	1:1.58	0.456	0.03	19.51	20.00	1.119	0.510	22.1
Right tilted	20	QPSK 50RB_50	56640/3690	1:1.58	0.559	-0.02	19.51	20.00	1.119	0.626	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	56640/3690	1:1.58	0.264	0.00	23.60	24.00	1.096	0.289	22.1
Back side	20	QPSK 1RB_50	56640/3690	1:1.58	0.525	-0.03	23.60	24.00	1.096	0.576	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	56640/3690	1:1.58	0.215	0.05	22.65	23.00	1.084	0.233	22.1
Back side	20	QPSK 50RB_50	56640/3690	1:1.58	0.402	0.09	22.65	23.00	1.084	0.436	22.1
Front side	20	QPSK 1RB_50	56640/3690	1:1.58	0.264	0.00	23.60	24.00	1.096	0.289	22.1
Back side	20	QPSK 1RB_50	56640/3690	1:1.58	0.525	-0.03	23.60	24.00	1.096	0.576	22.1
Left side	20	QPSK 1RB_50	56640/3690	1:1.58	0.048	0.10	23.60	24.00	1.096	0.052	22.1
Right side	20	QPSK 1RB_50	56640/3690	1:1.58	0.065	-0.09	23.60	24.00	1.096	0.071	22.1
Top side	20	QPSK 1RB_50	56640/3690	1:1.58	0.783	-0.13	23.60	24.00	1.096	0.859	22.1
Top side	20	QPSK 1RB_0	55340/3560	1:1.58	0.623	0.11	23.60	24.00	1.096	0.683	22.1
Top side	20	QPSK 1RB_50	55990/3625	1:1.58	0.792	0.15	23.60	24.00	1.096	0.868	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	56640/3690	1:1.58	0.215	0.05	22.65	23.00	1.084	0.233	22.1
Back side	20	QPSK 50RB_50	56640/3690	1:1.58	0.402	0.09	22.65	23.00	1.084	0.436	22.1
Left side	20	QPSK 50RB_50	56640/3690	1:1.58	0.041	0.02	22.65	23.00	1.084	0.045	22.1
Right side	20	QPSK 50RB_50	56640/3690	1:1.58	0.054	-0.06	22.65	23.00	1.084	0.059	22.1
Top side	20	QPSK 50RB_50	56640/3690	1:1.58	0.669	0.14	22.65	23.00	1.084	0.725	22.1
Hotspot Test data (Separate 10mm 100%RB)											
Top side	20	QPSK 100RB_0	55990/3625	1:1.58	0.652	0.11	22.59	23.00	1.099	0.717	22.1
ANT3											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	55340/3560	1:1.58	1.130	0.06	20.49	21.00	1.125	1.271	22.1
Left cheek-repeat	20	QPSK 1RB_0	55340/3560	1:1.58	1.110	0.10	20.49	21.00	1.125	1.248	22.1
Left tilted	20	QPSK 1RB_0	55340/3560	1:1.58	0.160	0.08	20.49	21.00	1.125	0.180	22.1
Right cheek	20	QPSK 1RB_0	55340/3560	1:1.58	0.137	0.02	20.49	21.00	1.125	0.154	22.1
Right tilted	20	QPSK 1RB_0	55340/3560	1:1.58	0.060	0.14	20.49	21.00	1.125	0.068	22.1
Left cheek	20	QPSK 1RB_0	55990/3625	1:1.58	1.020	0.05	20.21	21.00	1.199	1.223	22.1
Left cheek	20	QPSK 1RB_0	56640/3690	1:1.58	0.900	0.05	19.83	21.00	1.309	1.178	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	55340/3560	1:1.58	0.877	-0.11	20.50	21.00	1.122	0.984	22.1
Left tilted	20	QPSK 50RB_0	55340/3560	1:1.58	0.171	0.09	20.50	21.00	1.122	0.192	22.1
Right cheek	20	QPSK 50RB_0	55340/3560	1:1.58	0.136	0.02	20.50	21.00	1.122	0.153	22.1
Right tilted	20	QPSK 50RB_0	55340/3560	1:1.58	0.057	0.06	20.50	21.00	1.122	0.064	22.1
Left cheek	20	QPSK 50RB_0	55990/3625	1:1.58	0.815	0.08	20.21	21.00	1.199	0.978	22.1
Left cheek	20	QPSK 50RB_50	56640/3690	1:1.58	0.737	0.01	19.85	21.00	1.303	0.960	22.1
Head Test data(100%RB)											
Left cheek	20	QPSK 100RB_0	55340/3560	1:1.58	0.716	-0.01	20.51	21.00	1.119	0.802	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	56640/3690	1:1.58	0.296	0.04	23.14	24.00	1.219	0.361	22.1
Back side	20	QPSK 1RB_50	56640/3690	1:1.58	0.357	0.02	23.14	24.00	1.219	0.435	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_50	56640/3690	1:1.58	0.232	0.07	22.18	23.00	1.208	0.280	22.1
Back side	20	QPSK 50RB_50	56640/3690	1:1.58	0.306	0.19	22.18	23.00	1.208	0.370	22.1



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Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	56640/3690	1:1.58	0.296	0.04	23.14	24.00	1.219	0.361	22.1
Back side	20	QPSK 1RB_50	56640/3690	1:1.58	0.357	0.02	23.14	24.00	1.219	0.435	22.1
Left side	20	QPSK 1RB_50	56640/3690	1:1.58	0.014	0.04	23.14	24.00	1.219	0.017	22.1
Right side	20	QPSK 1RB_50	56640/3690	1:1.58	0.651	0.02	23.14	24.00	1.219	0.794	22.1
Top side	20	QPSK 1RB_50	56640/3690	1:1.58	0.078	0.01	23.14	24.00	1.219	0.095	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	56640/3690	1:1.58	0.232	0.07	22.18	23.00	1.208	0.280	22.1
Back side	20	QPSK 50RB_50	56640/3690	1:1.58	0.306	0.19	22.18	23.00	1.208	0.370	22.1
Left side	20	QPSK 50RB_50	56640/3690	1:1.58	0.007	0.12	22.18	23.00	1.208	0.008	22.1
Right side	20	QPSK 50RB_50	56640/3690	1:1.58	0.509	0.02	22.18	23.00	1.208	0.615	22.1
Top side	20	QPSK 50RB_50	56640/3690	1:1.58	0.059	0.01	22.18	23.00	1.208	0.071	22.1
ANT3 with Simultaneous transmission											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	55340/3560	1:1.58	1.130	0.06	20.49	19.50	0.796	0.900	22.1
Left tilted	20	QPSK 1RB_0	55340/3560	1:1.58	0.160	0.08	20.49	19.50	0.796	0.127	22.1
Right cheek	20	QPSK 1RB_0	55340/3560	1:1.58	0.137	0.02	20.49	19.50	0.796	0.109	22.1
Right tilted	20	QPSK 1RB_0	55340/3560	1:1.58	0.060	0.14	20.49	19.50	0.796	0.048	22.1
Left cheek	20	QPSK 1RB_0	55990/3625	1:1.58	1.020	0.05	20.21	19.50	0.849	0.866	22.1
Left cheek	20	QPSK 1RB_0	56640/3690	1:1.58	0.900	0.05	19.83	19.50	0.927	0.834	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	55340/3560	1:1.58	0.877	-0.11	20.50	19.50	0.794	0.697	22.1
Left tilted	20	QPSK 50RB_0	55340/3560	1:1.58	0.171	0.09	20.50	19.50	0.794	0.136	22.1
Right cheek	20	QPSK 50RB_0	55340/3560	1:1.58	0.136	0.02	20.50	19.50	0.794	0.108	22.1
Right tilted	20	QPSK 50RB_0	55340/3560	1:1.58	0.057	0.06	20.50	19.50	0.794	0.045	22.1
Left cheek	20	QPSK 50RB_0	55990/3625	1:1.58	0.815	0.08	20.21	19.50	0.849	0.692	22.1
Left cheek	20	QPSK 50RB_50	56640/3690	1:1.58	0.737	0.01	19.85	19.50	0.923	0.680	22.1
Head Test data(100%RB)											
Left cheek	20	QPSK 100RB_0	55340/3560	1:1.58	0.716	-0.01	20.51	19.50	0.793	0.567	22.1
ANT2											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left tilted	20	QPSK 1RB_50	56640/3690	1:1.58	0.641	0.05	19.40	20.00	1.148	0.736	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_50	56640/3690	1:1.58	0.477	-0.07	23.60	24.00	1.096	0.523	22.1
Hotspot Test data at the worst case with Second supply											
Top side	20	QPSK 1RB_50	55990/3625	1:1.58	0.744	0.06	23.60	24.00	1.096	0.816	22.1
ANT3											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 1RB_0	55340/3560	1:1.58	1.060	-0.02	20.49	21.00	1.125	1.192	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_50	56640/3690	1:1.58	0.323	-0.18	23.14	24.00	1.219	0.394	22.1
Hotspot Test data at the worst case with Second supply											
Right side	20	QPSK 1RB_50	56640/3690	1:1.58	0.632	-0.17	23.14	24.00	1.219	0.770	22.1

Table 31: SAR of LTE Band 48 for Head and Body.



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	55340/3560	1.13	1.11	1.018018	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once. 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit). 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 . 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						



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8.2.22 SAR Result of LTE Band 66

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	132072/1720	1:1.58	0.498	0.02	20.68	21.00	1.076	0.536	22.1
Left tilted	20	QPSK 1RB_50	132072/1720	1:1.58	0.181	0.03	20.68	21.00	1.076	0.195	22.1
Right cheek	20	QPSK 1RB_50	132072/1720	1:1.58	0.845	0.10	20.68	21.00	1.076	0.910	22.1
Right tilted	20	QPSK 1RB_50	132072/1720	1:1.58	0.232	0.17	20.68	21.00	1.076	0.250	22.1
Right cheek	20	QPSK 1RB_0	132322/1745	1:1.58	0.915	0.10	20.67	21.00	1.079	0.987	22.1
Right cheek	20	QPSK 1RB_0	132572/1770	1:1.58	1.070	0.11	20.55	21.00	1.109	1.187	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	132072/1720	1:1.58	0.502	0.02	20.74	21.00	1.062	0.533	22.1
Left tilted	20	QPSK 50RB_25	132072/1720	1:1.58	0.187	0.03	20.74	21.00	1.062	0.199	22.1
Right cheek	20	QPSK 50RB_25	132072/1720	1:1.58	0.858	-0.02	20.74	21.00	1.062	0.911	22.1
Right tilted	20	QPSK 50RB_25	132072/1720	1:1.58	0.279	0.15	20.74	21.00	1.062	0.296	22.1
Right cheek	20	QPSK 50RB_25	132322/1745	1:1.58	0.928	0.05	20.63	21.00	1.089	1.011	22.1
Right cheek	20	QPSK 50RB_25	132572/1770	1:1.58	1.130	0.06	20.73	21.00	1.064	1.202	22.1
Right cheek-repeat	20	QPSK 50RB_25	132572/1770	1:1.58	1.050	0.02	20.73	21.00	1.064	1.117	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	132072/1720	1:1.58	0.855	0.02	20.70	21.00	1.072	0.916	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	132072/1720	1:1.58	0.354	0.17	23.49	24.00	1.125	0.398	22.1
Back side	20	QPSK 1RB_50	132072/1720	1:1.58	0.378	0.03	23.49	24.00	1.125	0.425	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132072/1720	1:1.58	0.306	0.02	22.51	23.00	1.119	0.343	22.1
Back side	20	QPSK 50RB_25	132072/1720	1:1.58	0.322	0.02	22.51	23.00	1.119	0.360	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	132072/1720	1:1.58	0.354	0.17	23.49	24.00	1.125	0.398	22.1
Back side	20	QPSK 1RB_50	132072/1720	1:1.58	0.378	0.03	23.49	24.00	1.125	0.425	22.1
Left side	20	QPSK 1RB_50	132072/1720	1:1.58	0.534	0.05	23.49	24.00	1.125	0.601	22.1
Right side	20	QPSK 1RB_50	132072/1720	1:1.58	0.035	0.08	23.49	24.00	1.125	0.039	22.1
Top side	20	QPSK 1RB_50	132072/1720	1:1.58	0.089	0.14	23.49	24.00	1.125	0.100	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132072/1720	1:1.58	0.306	0.02	22.51	23.00	1.119	0.343	22.1
Back side	20	QPSK 50RB_25	132072/1720	1:1.58	0.322	0.02	22.51	23.00	1.119	0.360	22.1
Left side	20	QPSK 50RB_25	132072/1720	1:1.58	0.447	0.06	22.51	23.00	1.119	0.500	22.1
Right side	20	QPSK 50RB_25	132072/1720	1:1.58	0.030	0.10	22.51	23.00	1.119	0.033	22.1
Top side	20	QPSK 50RB_25	132072/1720	1:1.58	0.074	0.02	22.51	23.00	1.119	0.083	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	132322/1745	1:1.58	0.020	0.10	23.85	24.00	1.035	0.021	22.1
Left tilted	20	QPSK 1RB_99	132322/1745	1:1.58	0.008	0.04	23.85	24.00	1.035	0.008	22.1
Right cheek	20	QPSK 1RB_99	132322/1745	1:1.58	0.012	0.02	23.85	24.00	1.035	0.012	22.1
Right tilted	20	QPSK 1RB_99	132322/1745	1:1.58	0.005	0.03	23.85	24.00	1.035	0.005	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	132322/1745	1:1.58	0.010	0.03	22.86	23.00	1.033	0.011	22.1
Left tilted	20	QPSK 50RB_25	132322/1745	1:1.58	0.005	0.13	22.86	23.00	1.033	0.005	22.1
Right cheek	20	QPSK 50RB_25	132322/1745	1:1.58	0.008	0.07	22.86	23.00	1.033	0.009	22.1
Right tilted	20	QPSK 50RB_25	132322/1745	1:1.58	0.004	-0.15	22.86	23.00	1.033	0.004	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	132322/1745	1:1.58	0.228	0.04	23.85	24.00	1.035	0.236	22.1
Back side	20	QPSK 1RB_99	132322/1745	1:1.58	0.251	0.01	23.85	24.00	1.035	0.260	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132322/1745	1:1.58	0.246	0.04	22.86	23.00	1.033	0.254	22.1
Back side	20	QPSK 50RB_25	132322/1745	1:1.58	0.208	0.03	22.86	23.00	1.033	0.215	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	132322/1745	1:1.58	0.228	0.04	23.85	24.00	1.035	0.236	22.1
Back side	20	QPSK 1RB_99	132322/1745	1:1.58	0.251	0.01	23.85	24.00	1.035	0.260	22.1
Left side	20	QPSK 1RB_99	132322/1745	1:1.58	0.037	0.10	23.85	24.00	1.035	0.039	22.1



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Right side	20	QPSK 1RB_99	132322/1745	1:1.58	0.029	-0.02	23.85	24.00	1.035	0.030	22.1
Bottom side	20	QPSK 1RB_99	132322/1745	1:1.58	0.713	0.05	23.85	24.00	1.035	0.738	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132322/1745	1:1.58	0.246	0.04	22.86	23.00	1.033	0.254	22.1
Back side	20	QPSK 50RB_25	132322/1745	1:1.58	0.208	0.03	22.86	23.00	1.033	0.215	22.1
Left side	20	QPSK 50RB_25	132322/1745	1:1.58	0.031	0.09	22.86	23.00	1.033	0.032	22.1
Right side	20	QPSK 50RB_25	132322/1745	1:1.58	0.023	0.08	22.86	23.00	1.033	0.024	22.1
Bottom side	20	QPSK 50RB_25	132322/1745	1:1.58	0.497	-0.18	22.86	23.00	1.033	0.513	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK 50RB_25	132572/1770	1:1.58	1.020	-0.05	20.73	21.00	1.064	1.085	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_50	132072/1720	1:1.58	0.331	0.04	23.49	24.00	1.125	0.372	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK 1RB_50	132072/1720	1:1.58	0.510	-0.07	23.49	24.00	1.125	0.574	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 1RB_99	132322/1745	1:1.58	0.015	0.10	23.85	24.00	1.035	0.016	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK 1RB_99	132322/1745	1:1.58	0.233	0.17	23.85	24.00	1.035	0.241	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK 1RB_99	132322/1745	1:1.58	0.678	-0.17	23.85	24.00	1.035	0.702	22.1
ANT1 EN-DC											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	132072/1720	1:1.58	0.498	0.02	20.68	18.00	0.540	0.269	22.1
Left tilted	20	QPSK 1RB_50	132072/1720	1:1.58	0.181	0.03	20.68	18.00	0.540	0.098	22.1
Right cheek	20	QPSK 1RB_50	132072/1720	1:1.58	0.845	0.10	20.68	18.00	0.540	0.456	22.1
Right tilted	20	QPSK 1RB_50	132072/1720	1:1.58	0.232	0.17	20.68	18.00	0.540	0.125	22.1
Right cheek	20	QPSK 1RB_0	132322/1745	1:1.58	0.915	0.10	20.67	18.00	0.541	0.495	22.1
Right cheek	20	QPSK 1RB_0	132572/1770	1:1.58	1.070	0.11	20.55	18.00	0.556	0.595	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	132072/1720	1:1.58	0.502	0.02	20.74	18.00	0.532	0.267	22.1
Left tilted	20	QPSK 50RB_25	132072/1720	1:1.58	0.187	0.03	20.74	18.00	0.532	0.100	22.1
Right cheek	20	QPSK 50RB_25	132072/1720	1:1.58	0.858	-0.02	20.74	18.00	0.532	0.457	22.1
Right tilted	20	QPSK 50RB_25	132072/1720	1:1.58	0.279	0.15	20.74	18.00	0.532	0.148	22.1
Right cheek	20	QPSK 50RB_25	132322/1745	1:1.58	0.928	0.05	20.63	18.00	0.546	0.506	22.1
Right cheek	20	QPSK 50RB_25	132572/1770	1:1.58	1.130	0.06	20.73	18.00	0.533	0.603	22.1
Right cheek-repeat	20	QPSK 50RB_25	132572/1770	1:1.58	1.050	0.02	20.73	18.00	0.533	0.560	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	132072/1720	1:1.58	0.855	0.02	20.70	18.00	0.537	0.459	22.1

Table 32: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	132572/1770	1.13	1.05	1.0761905	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.23 SAR Result of LTE Band 71

ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	133372/688	1:1	0.417	-0.11	23.36	24.00	1.159	0.483	22.1
Left tilted	20	QPSK 1RB_99	133372/688	1:1	0.072	-0.11	23.36	24.00	1.159	0.083	22.1
Right cheek	20	QPSK 1RB_99	133372/688	1:1	0.260	0.06	23.36	24.00	1.159	0.301	22.1
Right tilted	20	QPSK 1RB_99	133372/688	1:1	0.045	0.07	23.36	24.00	1.159	0.052	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	133222/673	1:1	0.511	0.16	22.50	23.00	1.122	0.573	22.1
Left tilted	20	QPSK 50RB_0	133222/673	1:1	0.070	0.08	22.50	23.00	1.122	0.078	22.1
Right cheek	20	QPSK 50RB_0	133222/673	1:1	0.320	0.06	22.50	23.00	1.122	0.359	22.1
Right tilted	20	QPSK 50RB_0	133222/673	1:1	0.064	0.03	22.50	23.00	1.122	0.072	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	133372/688	1:1	0.218	-0.13	23.36	24.00	1.159	0.253	22.1
Back side	20	QPSK 1RB_99	133372/688	1:1	0.194	0.09	23.36	24.00	1.159	0.225	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	133222/673	1:1	0.256	-0.03	22.50	23.00	1.122	0.287	22.1
Back side	20	QPSK 50RB_0	133222/673	1:1	0.219	0.01	22.50	23.00	1.122	0.246	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	133372/688	1:1	0.218	-0.13	23.36	24.00	1.159	0.253	22.1
Back side	20	QPSK 1RB_99	133372/688	1:1	0.194	0.09	23.36	24.00	1.159	0.225	22.1
Left side	20	QPSK 1RB_99	133372/688	1:1	0.353	0.03	23.36	24.00	1.159	0.409	22.1
Right side	20	QPSK 1RB_99	133372/688	1:1	0.009	-0.08	23.36	24.00	1.159	0.010	22.1
Top side	20	QPSK 1RB_99	133372/688	1:1	0.009	-0.02	23.36	24.00	1.159	0.010	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	133222/673	1:1	0.256	-0.03	22.50	23.00	1.122	0.287	22.1
Back side	20	QPSK 50RB_0	133222/673	1:1	0.219	0.01	22.50	23.00	1.122	0.246	22.1
Left side	20	QPSK 50RB_0	133222/673	1:1	0.336	-0.02	22.50	23.00	1.122	0.377	22.1
Right side	20	QPSK 50RB_0	133222/673	1:1	0.008	-0.09	22.50	23.00	1.122	0.009	22.1
Top side	20	QPSK 50RB_0	133222/673	1:1	0.009	-0.13	22.50	23.00	1.122	0.010	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	133322/683	1:1	0.074	0.01	23.59	24.00	1.099	0.081	22.1
Left tilted	20	QPSK 1RB_50	133322/683	1:1	0.043	0.16	23.59	24.00	1.099	0.047	22.1
Right cheek	20	QPSK 1RB_50	133322/683	1:1	0.097	0.08	23.59	24.00	1.099	0.106	22.1
Right tilted	20	QPSK 1RB_50	133322/683	1:1	0.047	0.18	23.59	24.00	1.099	0.052	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	133322/683	1:1	0.059	0.02	22.48	23.00	1.127	0.066	22.1
Left tilted	20	QPSK 50RB_50	133322/683	1:1	0.036	0.15	22.48	23.00	1.127	0.041	22.1
Right cheek	20	QPSK 50RB_50	133322/683	1:1	0.077	0.01	22.48	23.00	1.127	0.086	22.1
Right tilted	20	QPSK 50RB_50	133322/683	1:1	0.039	0.09	22.48	23.00	1.127	0.044	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	133322/683	1:1	0.155	-0.11	23.59	24.00	1.099	0.170	22.1
Back side	20	QPSK 1RB_50	133322/683	1:1	0.141	-0.04	23.59	24.00	1.099	0.155	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	133322/683	1:1	0.129	-0.09	22.48	23.00	1.127	0.145	22.1
Back side	20	QPSK 50RB_50	133322/683	1:1	0.117	-0.05	22.48	23.00	1.127	0.132	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	133322/683	1:1	0.155	-0.11	23.59	24.00	1.099	0.170	22.1
Back side	20	QPSK 1RB_50	133322/683	1:1	0.141	-0.04	23.59	24.00	1.099	0.155	22.1
Left side	20	QPSK 1RB_50	133322/683	1:1	0.059	0.05	23.59	24.00	1.099	0.065	22.1
Right side	20	QPSK 1RB_50	133322/683	1:1	0.149	0.05	23.59	24.00	1.099	0.164	22.1
Bottom side	20	QPSK 1RB_50	133322/683	1:1	0.134	-0.08	23.59	24.00	1.099	0.147	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	133322/683	1:1	0.129	-0.09	22.48	23.00	1.127	0.145	22.1
Back side	20	QPSK 50RB_50	133322/683	1:1	0.117	-0.05	22.48	23.00	1.127	0.132	22.1
Left side	20	QPSK 50RB_50	133322/683	1:1	0.050	0.04	22.48	23.00	1.127	0.056	22.1
Right side	20	QPSK 50RB_50	133322/683	1:1	0.142	0.15	22.48	23.00	1.127	0.160	22.1



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Bottom side	20	QPSK 50RB_50	133322/683	1:1	0.113	-0.13	22.48	23.00	1.127	0.127	22.1
ANT1											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK 50RB_0	133222/673	1:1	0.477	0.01	22.50	23.00	1.122	0.535	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK 50RB_0	133222/673	1:1	0.221	-0.17	22.50	23.00	1.122	0.248	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK 1RB_99	133372/688	1:1	0.322	0.16	23.36	24.00	1.159	0.373	22.1
ANT0											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK 1RB_50	133322/683	1:1	0.083	-0.17	23.59	24.00	1.099	0.091	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK 1RB_50	133322/683	1:1	0.142	0.08	23.59	24.00	1.099	0.156	22.1
Hotspot Test data at the worst case with Second supply											
Front side	20	QPSK 1RB_50	133322/683	1:1	0.142	0.08	23.59	24.00	1.099	0.156	22.1

Table 33: SAR of LTE Band 71 for Head and Body.



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8.2.24 SAR Result of 5G NR n2

Ant1 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_53	376000/1880	0.287	0.03	16.04	16.50	1.112	0.319	22.1
Left tilted	20	QPSK	1_53	376000/1880	0.068	0.04	16.04	16.50	1.112	0.076	22.1
Right cheek	20	QPSK	1_53	376000/1880	0.635	0.13	16.04	16.50	1.112	0.706	22.1
Right tilted	20	QPSK	1_53	376000/1880	0.140	0.03	16.04	16.50	1.112	0.156	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK	50_56	372000/1860	0.273	-0.01	16.01	16.50	1.119	0.306	22.1
Left tilted	20	QPSK	50_56	372000/1860	0.072	0.10	16.01	16.50	1.119	0.080	22.1
Right cheek	20	QPSK	50_56	372000/1860	0.618	0.06	16.01	16.50	1.119	0.692	22.1
Right tilted	20	QPSK	50_56	372000/1860	0.144	0.06	16.01	16.50	1.119	0.161	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_53	372000/1860	0.381	0.08	22.09	22.50	1.099	0.419	22.1
Back side	20	QPSK	1_53	372000/1860	0.451	0.11	22.09	22.50	1.099	0.496	22.1
Body worn Test data(Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	376000/1880	0.489	0.05	21.92	22.50	1.143	0.559	22.1
Back side	20	QPSK	50_28	376000/1880	0.545	-0.03	21.92	22.50	1.143	0.623	22.1
Body worn Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK	1_53	376000/1880	0.255	0.09	23.05	23.50	1.109	0.283	22.1
Back side-17mm	20	QPSK	1_53	376000/1880	0.230	0.07	23.05	23.50	1.109	0.255	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK	50_28	376000/1880	0.294	0.01	23.02	23.50	1.117	0.328	22.1
Back side-17mm	20	QPSK	50_28	376000/1880	0.212	0.01	23.02	23.50	1.117	0.237	22.1
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	20	QPSK	1_53	372000/1860	0.381	0.08	22.09	22.50	1.099	0.419	22.1
Back side	20	QPSK	1_53	372000/1860	0.451	0.11	22.09	22.50	1.099	0.496	22.1
Left side	20	QPSK	1_53	372000/1860	0.616	-0.13	22.09	22.50	1.099	0.677	22.1
Right side	20	QPSK	1_53	372000/1860	0.031	-0.04	22.09	22.50	1.099	0.034	22.1
Top side	20	QPSK	1_53	372000/1860	0.166	-0.11	22.09	22.50	1.099	0.182	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	376000/1880	0.489	0.05	21.92	22.50	1.143	0.559	22.1
Back side	20	QPSK	50_28	376000/1880	0.545	-0.03	21.92	22.50	1.143	0.623	22.1
Left side	20	QPSK	50_28	376000/1880	0.678	-0.05	21.92	22.50	1.143	0.775	22.1
Right side	20	QPSK	50_28	376000/1880	0.037	0.12	21.92	22.50	1.143	0.042	22.1
Top side	20	QPSK	50_28	376000/1880	0.199	-0.08	21.92	22.50	1.143	0.227	22.1
Hotspot Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK	1_53	376000/1880	0.255	0.09	23.05	23.50	1.109	0.283	22.1
Back side-17mm	20	QPSK	1_53	376000/1880	0.230	0.07	23.05	23.50	1.109	0.255	22.1
Left side-17mm	20	QPSK	1_53	376000/1880	0.280	0.19	23.05	23.50	1.109	0.311	22.1
Right side-15mm	20	QPSK	1_53	376000/1880	0.034	-0.05	23.05	23.50	1.109	0.038	22.1
Top side-14mm	20	QPSK	1_53	376000/1880	0.147	0.01	23.05	23.50	1.109	0.163	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor off											
Front side-15mm	20	QPSK	50_28	376000/1880	0.294	0.01	23.02	23.50	1.117	0.328	22.1
Back side-17mm	20	QPSK	50_28	376000/1880	0.212	0.01	23.02	23.50	1.117	0.237	22.1
Left side-17mm	20	QPSK	50_28	376000/1880	0.319	-0.03	23.02	23.50	1.117	0.356	22.1
Right side-15mm	20	QPSK	50_28	376000/1880	0.028	-0.08	23.02	23.50	1.117	0.031	22.1
Top side-14mm	20	QPSK	50_28	376000/1880	0.171	-0.02	23.02	23.50	1.117	0.191	22.1
Ant0 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_1	376000/1880	0.025	0.07	23.17	23.50	1.079	0.027	22.1
Left tilted	20	QPSK	1_1	376000/1880	0.013	0.05	23.17	23.50	1.079	0.014	22.1
Right cheek	20	QPSK	1_1	376000/1880	0.018	0.08	23.17	23.50	1.079	0.019	22.1
Right tilted	20	QPSK	1_1	376000/1880	0.013	0.03	23.17	23.50	1.079	0.014	22.1
Head Test data(50%RB)											



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Left cheek	20	QPSK	50_28	372000/1860	0.017	0.01	22.34	22.50	1.038	0.017	22.1
Left tilted	20	QPSK	50_28	372000/1860	0.009	0.03	22.34	22.50	1.038	0.010	22.1
Right cheek	20	QPSK	50_28	372000/1860	0.013	0.02	22.34	22.50	1.038	0.013	22.1
Right tilted	20	QPSK	50_28	372000/1860	0.009	0.06	22.34	22.50	1.038	0.009	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_53	376000/1880	0.480	0.02	21.41	21.50	1.021	0.490	22.1
Back side	20	QPSK	1_53	376000/1880	0.380	-0.08	21.41	21.50	1.021	0.388	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	376000/1880	0.482	0.08	21.27	21.50	1.054	0.508	22.1
Back side	20	QPSK	50_28	376000/1880	0.394	0.02	21.27	21.50	1.054	0.415	22.1
Body worn Test data(Separate 15mm 1RB) Sensor off											
Front side-15mm	20	QPSK	1_1	376000/1880	0.362	-0.04	23.17	23.50	1.079	0.391	22.1
Back side-17mm	20	QPSK	1_1	376000/1880	0.227	0.08	23.17	23.50	1.079	0.245	22.1
Body worn Test data (Separate 15mm RB) Sensor off											
Front side-15mm	20	QPSK	50_28	372000/1860	0.334	0.02	22.34	23.50	1.306	0.436	22.1
Back side-17mm	20	QPSK	50_28	372000/1860	0.228	0.12	22.34	23.50	1.306	0.298	22.1
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	20	QPSK	1_53	376000/1880	0.480	0.02	21.41	21.50	1.021	0.490	22.1
Back side	20	QPSK	1_53	376000/1880	0.380	-0.08	21.41	21.50	1.021	0.388	22.1
Left side	20	QPSK	1_53	376000/1880	0.027	-0.07	21.41	21.50	1.021	0.028	22.1
Right side	20	QPSK	1_53	376000/1880	0.033	0.08	21.41	21.50	1.021	0.034	22.1
Bottom side	20	QPSK	1_53	376000/1880	1.160	-0.08	21.41	21.50	1.021	1.184	22.1
Bottom side	20	QPSK	1_104	372000/1860	1.160	-0.04	21.36	21.50	1.033	1.198	22.1
Bottom side	20	QPSK	1_1	380000/1900	1.130	-0.08	21.37	21.50	1.030	1.164	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	376000/1880	0.482	0.08	21.27	21.50	1.054	0.508	22.1
Back side	20	QPSK	50_28	376000/1880	0.394	0.02	21.27	21.50	1.054	0.415	22.1
Left side	20	QPSK	50_28	376000/1880	0.029	0.08	21.27	21.50	1.054	0.031	22.1
Right side	20	QPSK	50_28	376000/1880	0.036	0.13	21.27	21.50	1.054	0.038	22.1
Bottom side	20	QPSK	50_28	376000/1880	1.240	0.01	21.27	21.50	1.054	1.307	22.1
Bottom side-repeat	20	QPSK	50_28	376000/1880	1.190	0.01	21.27	21.50	1.054	1.255	22.1
Bottom side	20	QPSK	50_28	372000/1860	1.120	-0.02	21.24	21.50	1.062	1.189	22.1
Bottom side	20	QPSK	50_28	380000/1900	1.090	-0.04	21.25	21.50	1.059	1.155	22.1
Hotspot Test data(Separate 10mm 100%RB)Sensor on											
Bottom side	20	QPSK	100_0	376000/1880	0.727	-0.10	20.34	20.50	1.038	0.754	22.1
Hotspot Test data(Separate 1RB)Sensor off											
Front side-15mm	20	QPSK	1_1	376000/1880	0.362	-0.04	23.17	23.50	1.079	0.391	22.1
Back side-17mm	20	QPSK	1_1	376000/1880	0.227	0.08	23.17	23.50	1.079	0.245	22.1
Left side-17mm	20	QPSK	1_1	376000/1880	0.022	-0.02	23.17	23.50	1.079	0.024	22.1
Right side-15mm	20	QPSK	1_1	376000/1880	0.039	-0.19	23.17	23.50	1.079	0.042	22.1
Bottom side-19mm	20	QPSK	1_1	376000/1880	0.423	-0.08	23.17	23.50	1.079	0.456	22.1
Hotspot Test data (Separate 50%RB) Sensor off											
Front side-15mm	20	QPSK	50_28	372000/1860	0.334	0.02	22.34	23.50	1.306	0.436	22.1
Back side-17mm	20	QPSK	50_28	372000/1860	0.228	0.12	22.34	23.50	1.306	0.298	22.1
Left side-17mm	20	QPSK	50_28	372000/1860	0.022	0.03	22.34	23.50	1.306	0.029	22.1
Right side-15mm	20	QPSK	50_28	372000/1860	0.040	-0.05	22.34	23.50	1.306	0.052	22.1
Bottom side-19mm	20	QPSK	50_28	372000/1860	0.425	-0.01	22.34	23.50	1.306	0.555	22.1
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor on											
Bottom side	20	QPSK	1_53	376000/1880	1.630	-0.04	21.41	21.50	1.021	1.664	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB)Sensor on											
Bottom side	20	QPSK	50_28	376000/1880	1.590	0.00	21.27	21.50	1.054	1.676	22.1
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor off											
Bottom side-19mm	20	QPSK	1_1	376000/1880	0.239	-0.08	23.17	23.50	1.079	0.258	22.1
Hotspot Test data (Separate 50%RB) Sensor off											
Bottom side-19mm	20	QPSK	50_28	372000/1860	0.242	-0.01	22.34	23.50	1.306	0.316	22.1
Ant1 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								



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Head Test data at the worst case with Second supply											
Right cheek	20	QPSK	1_53	376000/1880	0.608	0.11	16.04	16.50	1.112	0.676	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK	50_28	376000/1880	0.518	0.07	21.92	22.50	1.143	0.592	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK	50_28	376000/1880	0.642	0.08	21.92	22.50	1.143	0.734	22.1
Ant0 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK	1_1	376000/1880	0.019	0.01	23.17	23.50	1.079	0.020	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK	50_28	376000/1880	0.452	0.07	21.27	21.50	1.054	0.477	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK	50_28	376000/1880	1.220	0.02	21.27	21.50	1.054	1.286	22.1
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Product specific 10g SAR Test data at the worst case with Second supply											
Bottom side	20	QPSK	50_28	376000/1880	1.520	-0.11	21.27	21.50	1.054	1.603	22.1
Ant0 EN-DC Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Hotspot Test data(Separate 10mm 1RB)Sensor on											
Front side	20	QPSK	1_53	376000/1880	0.480	0.02	21.41	18.50	0.512	0.246	22.1
Back side	20	QPSK	1_53	376000/1880	0.380	-0.08	21.41	18.50	0.512	0.194	22.1
Left side	20	QPSK	1_53	376000/1880	0.027	-0.07	21.41	18.50	0.512	0.014	22.1
Right side	20	QPSK	1_53	376000/1880	0.033	0.08	21.41	18.50	0.512	0.017	22.1
Bottom side	20	QPSK	1_53	376000/1880	1.160	-0.08	21.41	18.50	0.512	0.594	22.1
Bottom side	20	QPSK	1_104	372000/1860	1.160	-0.04	21.36	18.50	0.518	0.600	22.1
Bottom side	20	QPSK	1_1	380000/1900	1.130	-0.08	21.37	18.50	0.516	0.584	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	376000/1880	0.482	0.08	21.27	18.50	0.528	0.255	22.1
Back side	20	QPSK	50_28	376000/1880	0.394	0.02	21.27	18.50	0.528	0.208	22.1
Left side	20	QPSK	50_28	376000/1880	0.029	0.08	21.27	18.50	0.528	0.015	22.1
Right side	20	QPSK	50_28	376000/1880	0.036	0.13	21.27	18.50	0.528	0.019	22.1
Bottom side	20	QPSK	50_28	376000/1880	1.240	0.01	21.27	18.50	0.528	0.655	22.1
Bottom side-repeat	20	QPSK	50_28	376000/1880	1.190	0.01	21.27	18.50	0.528	0.629	22.1
Bottom side	20	QPSK	50_28	372000/1860	1.120	-0.02	21.24	18.50	0.532	0.596	22.1
Bottom side	20	QPSK	50_28	380000/1900	1.090	-0.04	21.25	18.50	0.531	0.579	22.1
Hotspot Test data(Separate 10mm 100%RB)Sensor on											
Bottom side	20	QPSK	100_0	376000/1880	0.727	-0.10	20.34	18.50	0.655	0.476	22.1

Table 34: SAR of 5G NR n2 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back Side	376000/1880	1.24	1.19	1.0420168	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.1 SAR Result of 5G NR n5

Ant1 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_1	167800/839	0.493	-0.04	22.85	24.00	1.303	0.642	22.1
Left tilted	20	QPSK	1_1	167800/839	0.083	0.16	22.85	24.00	1.303	0.108	22.1
Right cheek	20	QPSK	1_1	167800/839	0.418	-0.11	22.85	24.00	1.303	0.545	22.1
Right tilted	20	QPSK	1_1	167800/839	0.089	-0.01	22.85	24.00	1.303	0.116	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK	50_28	167800/839	0.367	0.05	22.76	24.00	1.330	0.488	22.1
Left tilted	20	QPSK	50_28	167800/839	0.062	0.19	22.76	24.00	1.330	0.082	22.1
Right cheek	20	QPSK	50_28	167800/839	0.358	0.04	22.76	24.00	1.330	0.476	22.1
Right tilted	20	QPSK	50_28	167800/839	0.076	-0.09	22.76	24.00	1.330	0.102	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK	1_1	167800/839	0.207	0.14	22.85	24.00	1.303	0.270	22.1
Back side	20	QPSK	1_1	167800/839	0.236	0.02	22.85	24.00	1.303	0.308	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK	50_28	167800/839	0.188	0.11	22.76	24.00	1.330	0.250	22.1
Back side	20	QPSK	50_28	167800/839	0.190	-0.17	22.76	24.00	1.330	0.253	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK	1_1	167800/839	0.207	0.14	22.85	24.00	1.303	0.270	22.1
Back side	20	QPSK	1_1	167800/839	0.236	0.02	22.85	24.00	1.303	0.308	22.1
Left side	20	QPSK	1_1	167800/839	0.358	-0.01	22.85	24.00	1.303	0.467	22.1
Right side	20	QPSK	1_1	167800/839	0.004	0.04	22.85	24.00	1.303	0.005	22.1
Top side	20	QPSK	1_1	167800/839	0.014	0.08	22.85	24.00	1.303	0.019	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK	50_28	167800/839	0.188	0.11	22.76	24.00	1.330	0.250	22.1
Back side	20	QPSK	50_28	167800/839	0.190	-0.17	22.76	24.00	1.330	0.253	22.1
Left side	20	QPSK	50_28	167800/839	0.279	-0.03	22.76	24.00	1.330	0.371	22.1
Right side	20	QPSK	50_28	167800/839	0.004	-0.09	22.76	24.00	1.330	0.006	22.1
Top side	20	QPSK	50_28	167800/839	0.014	0.12	22.76	24.00	1.330	0.019	22.1
Ant0 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_1	166800/834	0.115	-0.02	22.55	24.00	1.396	0.161	22.1
Left tilted	20	QPSK	1_1	166800/834	0.071	0.03	22.55	24.00	1.396	0.098	22.1
Right cheek	20	QPSK	1_1	166800/834	0.154	-0.03	22.55	24.00	1.396	0.215	22.1
Right tilted	20	QPSK	1_1	166800/834	0.078	0.01	22.55	24.00	1.396	0.108	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK	50_28	167300/836.5	0.095	0.16	22.58	24.00	1.387	0.132	22.1
Left tilted	20	QPSK	50_28	167300/836.5	0.065	0.04	22.58	24.00	1.387	0.090	22.1
Right cheek	20	QPSK	50_28	167300/836.5	0.145	-0.02	22.58	24.00	1.387	0.201	22.1
Right tilted	20	QPSK	50_28	167300/836.5	0.070	0.02	22.58	24.00	1.387	0.097	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK	1_1	166800/834	0.346	-0.09	22.55	24.00	1.396	0.483	22.1
Back side	20	QPSK	1_1	166800/834	0.315	0.07	22.55	24.00	1.396	0.440	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK	50_28	167300/836.5	0.313	-0.13	22.58	24.00	1.387	0.434	22.1
Back side	20	QPSK	50_28	167300/836.5	0.296	0.03	22.58	24.00	1.387	0.410	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK	1_1	166800/834	0.346	-0.09	22.55	24.00	1.396	0.483	22.1
Back side	20	QPSK	1_1	166800/834	0.315	0.07	22.55	24.00	1.396	0.440	22.1
Left side	20	QPSK	1_1	166800/834	0.092	-0.10	22.55	24.00	1.396	0.128	22.1
Right side	20	QPSK	1_1	166800/834	0.232	0.11	22.55	24.00	1.396	0.324	22.1
Bottom side	20	QPSK	1_1	166800/834	0.338	-0.07	22.55	24.00	1.396	0.472	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK	50_28	167300/836.5	0.313	-0.13	22.58	24.00	1.387	0.434	22.1
Back side	20	QPSK	50_28	167300/836.5	0.296	0.03	22.58	24.00	1.387	0.410	22.1



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Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Left side	20	QPSK	50_28	167300/836.5	0.072	-0.07	22.58	24.00	1.387	0.100	22.1
Right side	20	QPSK	50_28	167300/836.5	0.218	0.02	22.58	24.00	1.387	0.302	22.1
Bottom side	20	QPSK	50_28	167300/836.5	0.320	-0.08	22.58	24.00	1.387	0.444	22.1
Ant1 Test Record											
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK	1_1	167800/839	0.455	0.01	22.85	24.00	1.303	0.593	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK	1_1	167800/839	0.203	0.16	22.85	24.00	1.303	0.265	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK	1_1	167800/839	0.331	0.13	22.85	24.00	1.303	0.431	22.1
Ant0 Test Record											
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK	1_1	166800/834	0.143	0.06	22.55	24.00	1.396	0.200	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK	1_1	166800/834	0.309	0.05	22.55	24.00	1.396	0.431	22.1
Hotspot Test data at the worst case with Second supply											
Front side	20	QPSK	1_1	166800/834	0.309	0.05	22.55	24.00	1.396	0.431	22.1

Table 35: SAR of 5G NR n5 for Head and Body.



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8.2.2 SAR Result of 5G NR n25

Ant1 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_53	372000/1860	0.318	-0.19	16.01	16.50	1.119	0.356	22.1
Left tilted	20	QPSK	1_53	372000/1860	0.075	-0.09	16.01	16.50	1.119	0.084	22.1
Right cheek	20	QPSK	1_53	372000/1860	0.808	0.05	16.01	16.50	1.119	0.905	22.1
Right cheek-repeat	20	QPSK	1_53	372000/1860	0.762	0.05	16.01	16.50	1.119	0.853	22.1
Right tilted	20	QPSK	1_53	372000/1860	0.112	0.01	16.01	16.50	1.119	0.125	22.1
Right cheek	20	QPSK	1_53	376500/1882.5	0.638	0.02	15.91	16.50	1.146	0.731	22.1
Right cheek	20	QPSK	1_53	381000/1905	0.553	0.05	15.81	16.50	1.172	0.648	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK	50_56	376500/1882.5	0.335	-0.02	15.90	16.50	1.148	0.385	22.1
Left tilted	20	QPSK	50_56	376500/1882.5	0.078	0.02	15.90	16.50	1.148	0.089	22.1
Right cheek	20	QPSK	50_56	376500/1882.5	0.568	0.01	15.90	16.50	1.148	0.652	22.1
Right tilted	20	QPSK	50_56	376500/1882.5	0.139	0.07	15.90	16.50	1.148	0.160	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK	100_0	372000/1860	0.551	0.11	15.88	16.50	1.153	0.636	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_104	381000/1905	0.457	0.03	21.99	22.50	1.125	0.514	22.1
Back side	20	QPSK	1_104	381000/1905	0.434	0.02	21.99	22.50	1.125	0.488	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	372000/1860	0.415	0.19	21.92	22.50	1.143	0.474	22.1
Back side	20	QPSK	50_28	372000/1860	0.464	-0.02	21.92	22.50	1.143	0.530	22.1
Body worn Test data(Separate 10mm 1RB) Sensor off											
Front side 15mm	20	QPSK	1_53	376500/1882.5	0.297	0.10	22.58	23.50	1.236	0.367	22.1
Back side 17mm	20	QPSK	1_53	376500/1882.5	0.254	-0.11	22.58	23.50	1.236	0.314	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor off											
Front side 15mm	20	QPSK	50_28	376500/1882.5	0.280	0.11	22.63	23.50	1.222	0.342	22.1
Back side 17mm	20	QPSK	50_28	376500/1882.5	0.257	0.00	22.63	23.50	1.222	0.314	22.1
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_104	381000/1905	0.457	0.03	21.99	22.50	1.125	0.514	22.1
Back side	20	QPSK	1_104	381000/1905	0.434	0.02	21.99	22.50	1.125	0.488	22.1
Left side	20	QPSK	1_104	381000/1905	0.762	-0.03	21.99	22.50	1.125	0.857	22.1
Right side	20	QPSK	1_104	381000/1905	0.054	-0.17	21.99	22.50	1.125	0.061	22.1
Top side	20	QPSK	1_104	381000/1905	0.221	-0.11	21.99	22.50	1.125	0.249	22.1
Left side	20	QPSK	1_104	372000/1860	0.661	-0.11	21.98	22.50	1.127	0.745	22.1
Left side	20	QPSK	1_1	376500/1882.5	0.721	0.00	21.95	22.50	1.135	0.818	22.1
Hotspot Test data(Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	372000/1860	0.415	0.19	21.92	22.50	1.143	0.474	22.1
Back side	20	QPSK	50_28	372000/1860	0.464	-0.02	21.92	22.50	1.143	0.530	22.1
Left side	20	QPSK	50_28	372000/1860	0.632	0.04	21.92	22.50	1.143	0.722	22.1
Right side	20	QPSK	50_28	372000/1860	0.041	-0.18	21.92	22.50	1.143	0.047	22.1
Top side	20	QPSK	50_28	372000/1860	0.177	-0.05	21.92	22.50	1.143	0.202	22.1
Hotspot Test data(Separate 10mm 100%RB) Sensor on											
Left side	20	QPSK	100_0	376500/1882.5	0.431	-0.15	20.80	21.50	1.175	0.506	22.1
Hotspot Test data(Separate 10mm 1RB) Sensor off											
Front side-15mm	20	QPSK	1_53	376500/1882.5	0.297	0.10	22.58	23.50	1.236	0.367	22.1
Back side-17mm	20	QPSK	1_53	376500/1882.5	0.254	-0.11	22.58	23.50	1.236	0.314	22.1
Left side-17mm	20	QPSK	1_53	376500/1882.5	0.321	0.07	22.58	23.50	1.236	0.397	22.1
Right side-15mm	20	QPSK	1_53	376500/1882.5	0.049	-0.07	22.58	23.50	1.236	0.061	22.1
Top side-14mm	20	QPSK	1_53	376500/1882.5	0.235	-0.04	22.58	23.50	1.236	0.290	22.1
Hotspot Test data (Separate 50%RB) Sensor off											
Front side-15mm	20	QPSK	50_28	376500/1882.5	0.280	0.11	22.63	23.50	1.222	0.342	22.1
Back side-17mm	20	QPSK	50_28	376500/1882.5	0.257	0.00	22.63	23.50	1.222	0.314	22.1
Left side-17mm	20	QPSK	50_28	376500/1882.5	0.341	0.04	22.63	23.50	1.222	0.417	22.1
Right side-15mm	20	QPSK	50_28	376500/1882.5	0.028	-0.17	22.63	23.50	1.222	0.034	22.1
Top side-14mm	20	QPSK	50_28	376500/1882.5	0.176	0.04	22.63	23.50	1.222	0.215	22.1

Ant0 Test Record



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Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_1	376500/1882.5	0.024	0.02	21.66	23.50	1.528	0.036	22.1
Left tilted	20	QPSK	1_1	376500/1882.5	0.010	0.06	21.66	23.50	1.528	0.015	22.1
Right cheek	20	QPSK	1_1	376500/1882.5	0.015	0.09	21.66	23.50	1.528	0.022	22.1
Right tilted	20	QPSK	1_1	376500/1882.5	0.009	0.08	21.66	23.50	1.528	0.013	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK	50_28	372000/1860	0.017	0.09	21.74	23.50	1.500	0.025	22.1
Left tilted	20	QPSK	50_28	372000/1860	0.010	0.04	21.74	23.50	1.500	0.015	22.1
Right cheek	20	QPSK	50_28	372000/1860	0.013	0.03	21.74	23.50	1.500	0.020	22.1
Right tilted	20	QPSK	50_28	372000/1860	0.009	-0.02	21.74	23.50	1.500	0.013	22.1
Body worn Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_1	376500/1882.5	0.471	0.07	19.83	21.50	1.469	0.692	22.1
Back side	20	QPSK	1_1	376500/1882.5	0.385	0.04	19.83	21.50	1.469	0.566	22.1
Body worn Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	372000/1860	0.341	0.06	19.87	21.50	1.455	0.496	22.1
Back side	20	QPSK	50_28	372000/1860	0.309	0.06	19.87	21.50	1.455	0.450	22.1
Body worn Test data(Separate 1RB) Sensor off											
Front side-15mm	20	QPSK	1_1	376500/1882.5	0.345	0.07	21.66	23.50	1.528	0.527	22.1
Back side-17mm	20	QPSK	1_1	376500/1882.5	0.211	0.06	21.66	23.50	1.528	0.322	22.1
Body worn Test data (Separate 50%RB) Sensor off											
Front side-15mm	20	QPSK	50_28	372000/1860	0.306	-0.16	21.74	23.50	1.500	0.459	22.1
Back side-17mm	20	QPSK	50_28	372000/1860	0.201	0.08	21.74	23.50	1.500	0.301	22.1
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_1	376500/1882.5	0.471	0.07	19.83	21.50	1.469	0.692	22.1
Back side	20	QPSK	1_1	376500/1882.5	0.385	0.04	19.83	21.50	1.469	0.566	22.1
Left side	20	QPSK	1_1	376500/1882.5	0.032	-0.05	19.83	21.50	1.469	0.047	22.1
Right side	20	QPSK	1_1	376500/1882.5	0.039	-0.16	19.83	21.50	1.469	0.057	22.1
Bottom side	20	QPSK	1_1	376500/1882.5	0.827	-0.19	19.83	21.50	1.469	1.215	22.1
Bottom side	20	QPSK	1_1	372000/1860	0.831	0.05	19.80	21.50	1.479	1.229	22.1
Bottom side	20	QPSK	1_1	381000/1905	0.876	-0.19	19.82	21.50	1.472	1.290	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	372000/1860	0.341	0.06	19.87	21.50	1.455	0.496	22.1
Back side	20	QPSK	50_28	372000/1860	0.309	0.06	19.87	21.50	1.455	0.450	22.1
Left side	20	QPSK	50_28	372000/1860	0.029	-0.05	19.87	21.50	1.455	0.042	22.1
Right side	20	QPSK	50_28	372000/1860	0.040	0.02	19.87	21.50	1.455	0.058	22.1
Bottom side	20	QPSK	50_28	372000/1860	0.898	-0.03	19.87	21.50	1.455	1.307	22.1
Bottom side-repeat	20	QPSK	50_28	372000/1860	0.833	-0.02	19.87	21.50	1.455	1.212	22.1
Bottom side	20	QPSK	50_28	376500/1882.5	0.838	-0.17	19.77	21.50	1.489	1.248	22.1
Bottom side	20	QPSK	50_28	381000/1905	0.792	-0.19	19.82	21.50	1.472	1.166	22.1
Hotspot Test data (Separate 10mm 100%RB) Sensor on											
Bottom side	20	QPSK	100_0	381000/1905	0.650	-0.09	18.81	20.50	1.476	0.959	22.1
Hotspot Test data(Separate 1RB) Sensor off											
Front side-15mm	20	QPSK	1_1	376500/1882.5	0.345	0.07	21.66	23.50	1.528	0.527	22.1
Back side-17mm	20	QPSK	1_1	376500/1882.5	0.211	0.06	21.66	23.50	1.528	0.322	22.1
Left side-17mm	20	QPSK	1_1	376500/1882.5	0.021	-0.15	21.66	23.50	1.528	0.032	22.1
Right side-15mm	20	QPSK	1_1	376500/1882.5	0.043	0.17	21.66	23.50	1.528	0.066	22.1
Bottom side-19mm	20	QPSK	1_1	376500/1882.5	0.466	0.00	21.66	23.50	1.528	0.712	22.1
Hotspot Test data (Separate 50%RB) Sensor off											
Front side-15mm	20	QPSK	50_28	372000/1860	0.306	-0.16	21.74	23.50	1.500	0.459	22.1
Back side-17mm	20	QPSK	50_28	372000/1860	0.201	0.08	21.74	23.50	1.500	0.301	22.1
Left side-17mm	20	QPSK	50_28	372000/1860	0.023	-0.04	21.74	23.50	1.500	0.035	22.1
Right side-15mm	20	QPSK	50_28	372000/1860	0.028	-0.01	21.74	23.50	1.500	0.042	22.1
Bottom side-19mm	20	QPSK	50_28	372000/1860	0.461	0.12	21.74	23.50	1.500	0.691	22.1
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor on											
Bottom side	20	QPSK	1_1	376500/1882.5	1.620	0.01	19.83	21.50	1.469	2.380	22.1
Bottom side	20	QPSK	1_1	372000/1860	1.590	0.08	19.80	21.50	1.479	2.352	22.1



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Bottom side	20	QPSK	1_1	381000/1905	1.480	-0.04	19.82	21.50	1.472	2.179	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB)Sensor on											
Bottom side	20	QPSK	50_28	372000/1860	1.700	0.06	19.87	21.50	1.455	2.474	22.1
Bottom side	20	QPSK	50_28	376500/1882.5	1.540	0.05	19.77	21.50	1.489	2.294	22.1
Bottom side	20	QPSK	50_28	381000/1905	1.400	0.02	19.82	21.50	1.472	2.061	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB)Sensor on											
Bottom side	20	QPSK	100_0	381000/1905	1.140	0.04	18.81	21.50	1.858	2.118	22.1
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor off											
Bottom side-19mm	20	QPSK	1_1	376500/1882.5	0.262	0.00	21.66	23.50	1.528	0.400	22.1
Hotspot Test data (Separate 50%RB) Sensor off											
Bottom side-19mm	20	QPSK	50_28	372000/1860	0.259	0.12	21.74	23.50	1.500	0.388	22.1
Ant1 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data at the worst case with Second supply											
Right cheek	20	QPSK	1_53	372000/1860	0.759	0.01	16.01	16.50	1.119	0.850	22.1
Body worn Test data at the worst case with Second supply											
Back side	20	QPSK	50_28	372000/1860	0.434	0.17	21.92	22.50	1.143	0.496	22.1
Hotspot Test data at the worst case with Second supply											
Left side	20	QPSK	1_104	381000/1905	0.744	0.16	21.99	22.50	1.125	0.837	22.1
Ant0 Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data at the worst case with Second supply											
Left cheek	20	QPSK	1_1	376500/1882.5	0.019	0.18	21.66	23.50	1.528	0.029	22.1
Body worn Test data at the worst case with Second supply											
Front side	20	QPSK	1_1	376500/1882.5	0.455	0.02	19.83	21.50	1.469	0.668	22.1
Hotspot Test data at the worst case with Second supply											
Bottom side	20	QPSK	50_28	372000/1860	0.871	0.16	19.87	21.50	1.455	1.268	22.1
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Product specific 10g SAR Test data at the worst case with Second supply											
Bottom side	20	QPSK	50_28	372000/1860	1.560	0.01	19.87	21.50	1.455	2.271	22.1
Ant1 EN-DC Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset								
Head Test data(1RB)											
Left cheek	20	QPSK	1_53	372000/1860	0.318	-0.19	16.01	15.50	0.889	0.283	22.1
Left tilted	20	QPSK	1_53	372000/1860	0.075	-0.09	16.01	15.50	0.889	0.067	22.1
Right cheek	20	QPSK	1_53	372000/1860	0.808	0.05	16.01	15.50	0.889	0.718	22.1
Right cheek-repeat	20	QPSK	1_53	372000/1860	0.762	0.05	16.01	15.50	0.889	0.678	22.1
Right tilted	20	QPSK	1_53	372000/1860	0.112	0.01	16.01	15.50	0.889	0.100	22.1
Right cheek	20	QPSK	1_53	376500/1882.5	0.638	0.02	15.91	15.50	0.910	0.581	22.1
Right cheek	20	QPSK	1_53	381000/1905	0.553	0.05	15.81	15.50	0.931	0.515	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK	50_56	376500/1882.5	0.335	-0.02	15.90	15.50	0.912	0.306	22.1
Left tilted	20	QPSK	50_56	376500/1882.5	0.078	0.02	15.90	15.50	0.912	0.071	22.1
Right cheek	20	QPSK	50_56	376500/1882.5	0.568	0.01	15.90	15.50	0.912	0.518	22.1
Right tilted	20	QPSK	50_56	376500/1882.5	0.139	0.07	15.90	15.50	0.912	0.127	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK	100_0	372000/1860	0.551	0.11	15.88	15.50	0.916	0.505	22.1
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_104	381000/1905	0.457	0.03	21.99	20.50	0.710	0.324	22.1
Back side	20	QPSK	1_104	381000/1905	0.434	0.02	21.99	20.50	0.710	0.308	22.1
Left side	20	QPSK	1_104	381000/1905	0.762	-0.03	21.99	20.50	0.710	0.541	22.1
Right side	20	QPSK	1_104	381000/1905	0.054	-0.17	21.99	20.50	0.710	0.038	22.1
Top side	20	QPSK	1_104	381000/1905	0.221	-0.11	21.99	20.50	0.710	0.157	22.1



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Left side	20	QPSK	1_104	372000/1860	0.661	-0.11	21.98	20.50	0.711	0.470	22.1
Left side	20	QPSK	1_1	376500/1882.5	0.721	0.00	21.95	20.50	0.716	0.516	22.1
Hotspot Test data(Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	372000/1860	0.415	0.19	21.92	20.50	0.721	0.299	22.1
Back side	20	QPSK	50_28	372000/1860	0.464	-0.02	21.92	20.50	0.721	0.335	22.1
Left side	20	QPSK	50_28	372000/1860	0.632	0.04	21.92	20.50	0.721	0.456	22.1
Right side	20	QPSK	50_28	372000/1860	0.041	-0.18	21.92	20.50	0.721	0.030	22.1
Top side	20	QPSK	50_28	372000/1860	0.177	-0.05	21.92	20.50	0.721	0.128	22.1
Hotspot Test data(Separate 10mm 100%RB) Sensor on											
Left side	20	QPSK	100_0	376500/1882.5	0.431	-0.15	20.80	20.50	0.933	0.402	22.1
Ant0 EN-DC Test Record											
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size RB offset								
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK	1_1	376500/1882.5	0.471	0.07	19.83	19.00	0.826	0.389	22.1
Back side	20	QPSK	1_1	376500/1882.5	0.385	0.04	19.83	19.00	0.826	0.318	22.1
Left side	20	QPSK	1_1	376500/1882.5	0.032	-0.05	19.83	19.00	0.826	0.027	22.1
Right side	20	QPSK	1_1	376500/1882.5	0.039	-0.16	19.83	19.00	0.826	0.032	22.1
Bottom side	20	QPSK	1_1	376500/1882.5	0.827	-0.19	19.83	19.00	0.826	0.683	22.1
Bottom side	20	QPSK	1_1	372000/1860	0.831	0.05	19.80	19.00	0.832	0.691	22.1
Bottom side	20	QPSK	1_1	381000/1905	0.876	-0.19	19.82	19.00	0.828	0.725	22.1
Hotspot Test data (Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK	50_28	372000/1860	0.341	0.06	19.87	19.00	0.818	0.279	22.1
Back side	20	QPSK	50_28	372000/1860	0.309	0.06	19.87	19.00	0.818	0.253	22.1
Left side	20	QPSK	50_28	372000/1860	0.029	-0.05	19.87	19.00	0.818	0.024	22.1
Right side	20	QPSK	50_28	372000/1860	0.040	0.02	19.87	19.00	0.818	0.033	22.1
Bottom side	20	QPSK	50_28	372000/1860	0.898	-0.03	19.87	19.00	0.818	0.735	22.1
Bottom side-repeat	20	QPSK	50_28	372000/1860	0.833	-0.02	19.87	19.00	0.818	0.682	22.1
Bottom side	20	QPSK	50_28	376500/1882.5	0.838	-0.17	19.77	19.00	0.838	0.702	22.1
Bottom side	20	QPSK	50_28	381000/1905	0.792	-0.19	19.82	19.00	0.828	0.656	22.1
Hotspot Test data (Separate 10mm 100%RB) Sensor on											
Bottom side	20	QPSK	100_0	381000/1905	0.650	-0.09	18.81	19.00	1.045	0.679	22.1
Test position	Test mode			Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size RB offset								
Product specific 10g SAR Test data(Separate 0mm 1RB)Sensor on											
Bottom side	20	QPSK	1_1	376500/1882.5	1.620	0.01	19.83	19.00	0.826	1.338	22.1
Bottom side	20	QPSK	1_1	372000/1860	1.590	0.08	19.80	19.00	0.832	1.323	22.1
Bottom side	20	QPSK	1_1	381000/1905	1.480	-0.04	19.82	19.00	0.828	1.225	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB)Sensor on											
Bottom side	20	QPSK	50_28	372000/1860	1.700	0.06	19.87	19.00	0.818	1.391	22.1
Bottom side	20	QPSK	50_28	376500/1882.5	1.540	0.05	19.77	19.00	0.838	1.290	22.1
Bottom side	20	QPSK	50_28	381000/1905	1.400	0.02	19.82	19.00	0.828	1.159	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB)Sensor on											
Bottom side	20	QPSK	100_0	381000/1905	1.140	0.04	18.81	19.00	1.045	1.191	22.1

Table 36: SAR of 5G NR n25 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	372000/1860	0.808	0.762	1.0603675	N/A	N/A
Bottom side	372000/1860	0.898	0.833	1.0780312	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.3 SAR Result of 5G NR n38

Ant3 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset									
Head Test data(1RB)												
Left cheek	20	QPSK	1_1	519000/2595	1:1	0.253	0.07	16.38	17.50	1.294	0.327	22.1
Left tilted	20	QPSK	1_1	519000/2595	1:1	0.130	0.14	16.38	17.50	1.294	0.168	22.1
Right cheek	20	QPSK	1_1	519000/2595	1:1	0.167	0.01	16.38	17.50	1.294	0.216	22.1
Right tilted	20	QPSK	1_1	519000/2595	1:1	0.053	0.01	16.38	17.50	1.294	0.068	22.1
Head Test data(50%RB)												
Left cheek	20	QPSK	50_28	516000/2580	1:1	0.237	0.09	16.48	17.50	1.265	0.300	22.1
Left tilted	20	QPSK	50_28	516000/2580	1:1	0.059	0.08	16.48	17.50	1.265	0.075	22.1
Right cheek	20	QPSK	50_28	516000/2580	1:1	0.066	0.04	16.48	17.50	1.265	0.083	22.1
Right tilted	20	QPSK	50_28	516000/2580	1:1	0.020	0.02	16.48	17.50	1.265	0.025	22.1
Body worn Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_1	519000/2595	1:1	0.069	0.07	16.38	17.50	1.294	0.089	22.1
Back side	20	QPSK	1_1	519000/2595	1:1	0.072	-0.04	16.38	17.50	1.294	0.093	22.1
Body worn Test data (Separate 10mm 50%RB)												
Front side	20	QPSK	50_28	516000/2580	1:1	0.077	0.04	16.48	17.50	1.265	0.097	22.1
Back side	20	QPSK	50_28	516000/2580	1:1	0.084	-0.12	16.48	17.50	1.265	0.107	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_1	519000/2595	1:1	0.069	0.07	16.38	17.50	1.294	0.089	22.1
Back side	20	QPSK	1_1	519000/2595	1:1	0.072	-0.04	16.38	17.50	1.294	0.093	22.1
Left side	20	QPSK	1_1	519000/2595	1:1	0.004	0.04	16.38	17.50	1.294	0.005	22.1
Right side	20	QPSK	1_1	519000/2595	1:1	0.132	0.04	16.38	17.50	1.294	0.171	22.1
Top side	20	QPSK	1_1	519000/2595	1:1	0.013	-0.12	16.38	17.50	1.294	0.017	22.1
Hotspot Test data (Separate 10mm 50%RB)												
Front side	20	QPSK	50_28	516000/2580	1:1	0.077	0.04	16.48	17.50	1.265	0.097	22.1
Back side	20	QPSK	50_28	516000/2580	1:1	0.084	-0.12	16.48	17.50	1.265	0.107	22.1
Left side	20	QPSK	50_28	516000/2580	1:1	0.004	0.11	16.48	17.50	1.265	0.005	22.1
Right side	20	QPSK	50_28	516000/2580	1:1	0.151	0.05	16.48	17.50	1.265	0.191	22.1
Top side	20	QPSK	50_28	516000/2580	1:1	0.014	-0.19	16.48	17.50	1.265	0.018	22.1
Ant1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset									
Head Test data(1RB)												
Left cheek	20	QPSK	1_104	516000/2580	1:1	0.338	-0.08	17.03	17.50	1.114	0.377	22.1
Left tilted	20	QPSK	1_104	516000/2580	1:1	0.118	0.05	17.03	17.50	1.114	0.131	22.1
Right cheek	20	QPSK	1_104	516000/2580	1:1	1.050	0.09	17.03	17.50	1.114	1.170	22.1
Right cheek-repeat	20	QPSK	1_104	516000/2580	1:1	1.040	0.01	17.03	17.50	1.114	1.159	22.1
Right tilted	20	QPSK	1_104	516000/2580	1:1	0.261	-0.03	17.03	17.50	1.114	0.291	22.1
Right cheek	20	QPSK	1_53	519000/2595	1:1	0.835	0.07	16.82	17.50	1.169	0.977	22.1
Right cheek	20	QPSK	1_104	522000/2610	1:1	0.883	0.04	17.03	17.50	1.114	0.984	22.1
Head Test data(50%RB)												
Left cheek	20	QPSK	50_28	516000/2580	1:1	0.560	-0.06	16.90	17.50	1.148	0.643	22.1
Left tilted	20	QPSK	50_28	516000/2580	1:1	0.131	-0.09	16.90	17.50	1.148	0.150	22.1
Right cheek	20	QPSK	50_28	516000/2580	1:1	0.979	0.01	16.90	17.50	1.148	1.124	22.1
Right tilted	20	QPSK	50_28	516000/2580	1:1	0.263	-0.05	16.90	17.50	1.148	0.302	22.1
Right cheek	20	QPSK	50_28	519000/2595	1:1	0.910	0.08	16.90	17.50	1.148	1.045	22.1
Right cheek	20	QPSK	50_28	522000/2610	1:1	0.935	0.03	16.90	17.50	1.148	1.074	22.1
Head Test data(100%RB)												
Right cheek	20	QPSK	100RB_0	516000/2580	1:1	0.703	0.31	15.99	16.50	1.125	0.791	22.1
Body worn Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_104	516000/2580	1:1	0.251	0.02	17.03	17.50	1.114	0.280	22.1
Back side	20	QPSK	1_104	516000/2580	1:1	0.198	0.13	17.03	17.50	1.114	0.221	22.1
Body worn Test data (Separate 10mm 50%RB)												
Front side	20	QPSK	50_28	516000/2580	1:1	0.260	0.04	16.90	17.50	1.148	0.299	22.1
Back side	20	QPSK	50_28	516000/2580	1:1	0.258	0.16	16.90	17.50	1.148	0.296	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_104	516000/2580	1:1	0.251	0.02	17.03	17.50	1.114	0.280	22.1
Back side	20	QPSK	1_104	516000/2580	1:1	0.198	0.13	17.03	17.50	1.114	0.221	22.1
Left side	20	QPSK	1_104	516000/2580	1:1	0.272	0.03	17.03	17.50	1.114	0.303	22.1
Right side	20	QPSK	1_104	516000/2580	1:1	0.005	0.03	17.03	17.50	1.114	0.005	22.1
Top side	20	QPSK	1_104	516000/2580	1:1	0.049	0.05	17.03	17.50	1.114	0.054	22.1
Hotspot Test data (Separate 10mm 50%RB)												
Front side	20	QPSK	50_28	516000/2580	1:1	0.260	0.04	16.90	17.50	1.148	0.299	22.1
Back side	20	QPSK	50_28	516000/2580	1:1	0.258	0.16	16.90	17.50	1.148	0.296	22.1



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Left side	20	QPSK	50_28	516000/2580	1:1	0.279	0.03	16.90	17.50	1.148	0.320	22.1
Right side	20	QPSK	50_28	516000/2580	1:1	0.005	0.04	16.90	17.50	1.148	0.005	22.1
Top side	20	QPSK	50_28	516000/2580	1:1	0.055	0.14	16.90	17.50	1.148	0.063	22.1
Ant3 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset									
Head Test data at the worst case with Second supply												
Left cheek	20	QPSK	1_1	519000/2595	1:1	0.244	0.03	16.38	17.50	1.294	0.316	22.1
Body worn Test data at the worst case with Second supply												
Back side	20	QPSK	50_28	516000/2580	1:1	0.069	-0.12	16.48	17.50	1.265	0.087	22.1
Hotspot Test data at the worst case with Second supply												
Right side	20	QPSK	50_28	516000/2580	1:1	0.142	0.06	16.48	17.50	1.265	0.180	22.1
Ant1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_RB offset									
Head Test data at the worst case with Second supply												
Right cheek	20	QPSK	1_104	516000/2580	1:1	0.940	0.03	17.03	17.50	1.114	1.047	22.1
Body worn Test data at the worst case with Second supply												
Front side	20	QPSK	50_28	516000/2580	1:1	0.240	0.16	16.90	17.50	1.148	0.276	22.1
Hotspot Test data at the worst case with Second supply												
Left side	20	QPSK	50_28	516000/2580	1:1	0.253	0.18	16.90	17.50	1.148	0.290	22.1

Table 37: SAR of 5G NR n38 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	516000/2580	1.05	1.04	1.0096154	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.4 SAR Result of 5G NR n41

Ant3 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scale factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_RB offset									
Head Test data(1RB)												
Left cheek	100	QPSK	1_1	523302/2616.5 1	1:1	0.722	-0.09	18.19	19.00	1.205	0.870	22.1
Left tilted	100	QPSK	1_1	523302/2616.5 1	1:1	0.247	0.06	18.19	19.00	1.205	0.298	22.1
Right cheek	100	QPSK	1_1	523302/2616.5 1	1:1	0.255	0.18	18.19	19.00	1.205	0.307	22.1
Right tilted	100	QPSK	1_1	523302/2616.5 1	1:1	0.093	-0.04	18.19	19.00	1.205	0.112	22.1
Left cheek	100	QPSK	1_1	509202/2546.0 1	1:1	0.935	0.04	18.18	19.00	1.208	1.129	22.1
Left cheek	100	QPSK	1_137	513900/2569.5	1:1	0.858	-0.03	18.15	19.00	1.216	1.043	22.1
Left cheek	100	QPSK	1_137	518598/2592.9 9	1:1	0.819	-0.06	18.14	19.00	1.219	0.998	22.1
Left cheek	100	QPSK	1_137	528000/2640	1:1	0.745	0.00	18.18	19.00	1.208	0.900	22.1
Left cheek-repeat	100	QPSK	1_1	509202/2546.0 1	1:1	0.842	-0.06	18.18	19.00	1.208	1.017	22.1
Head Test data(50%RB)												
Left cheek	100	QPSK	135_69	509202/2546.0 1	1:1	0.751	0.09	18.37	19.00	1.156	0.868	22.1
Left tilted	100	QPSK	135_69	509202/2546.0 1	1:1	0.236	-0.09	18.37	19.00	1.156	0.273	22.1
Right cheek	100	QPSK	135_69	509202/2546.0 1	1:1	0.212	0.03	18.37	19.00	1.156	0.245	22.1
Right tilted	100	QPSK	135_69	509202/2546.0 1	1:1	0.181	0.18	18.37	19.00	1.156	0.209	22.1
Left cheek	100	QPSK	135_69	513900/2569.5	1:1	0.757	-0.05	18.19	19.00	1.205	0.912	22.1
Left cheek	100	QPSK	135_69	518598/2592.9 9	1:1	0.693	-0.09	18.23	19.00	1.194	0.827	22.1
Left cheek	100	QPSK	135_69	523302/2616.5 1	1:1	0.696	-0.09	18.23	19.00	1.194	0.831	22.1
Left cheek	100	QPSK	135_69	528000/2640	1:1	0.719	-0.05	18.30	19.00	1.175	0.845	22.1
Head Test data(100%RB)												
Left cheek	100	QPSK	270RB_0	509202/2546.0 1	1:1	0.652	-0.08	17.39	18.00	1.151	0.750	22.1
Body worn Test data(Separate 10mm 1RB)												
Front side	100	QPSK	1_137	523302/2616.5 1	1:1	0.155	0.01	18.19	20.00	1.517	0.235	22.1
Back side	100	QPSK	1_137	523302/2616.5 1	1:1	0.212	0.09	18.19	20.00	1.517	0.322	22.1
Body worn Test data (Separate 10mm 50%RB)												
Front side	100	QPSK	135_69	509202/2546.0 1	1:1	0.186	-0.07	18.37	20.00	1.455	0.271	22.1
Back side	100	QPSK	135_69	509202/2546.0 1	1:1	0.226	0.02	18.37	20.00	1.455	0.329	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	100	QPSK	1_137	523302/2616.5 1	1:1	0.155	0.01	18.19	20.00	1.517	0.235	22.1
Back side	100	QPSK	1_137	523302/2616.5 1	1:1	0.212	0.09	18.19	20.00	1.517	0.322	22.1
Left side	100	QPSK	1_137	523302/2616.5 1	1:1	0.002	-0.11	18.19	20.00	1.517	0.003	22.1
Right side	100	QPSK	1_137	523302/2616.5 1	1:1	0.339	-0.04	18.19	20.00	1.517	0.514	22.1
Top side	100	QPSK	1_137	523302/2616.5 1	1:1	0.037	0.09	18.19	20.00	1.517	0.055	22.1
Hotspot Test data (Separate 10mm 50%RB)												



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Front side	100	QPSK	135_69	509202/2546.0 1	1:1	0.186	-0.07	18.37	20.00	1.455	0.271	22.1
Back side	100	QPSK	135_69	509202/2546.0 1	1:1	0.226	0.02	18.37	20.00	1.455	0.329	22.1
Left side	100	QPSK	135_69	509202/2546.0 1	1:1	0.004	0.01	18.37	20.00	1.455	0.006	22.1
Right side	100	QPSK	135_69	509202/2546.0 1	1:1	0.322	0.03	18.37	20.00	1.455	0.469	22.1
Top side	100	QPSK	135_69	509202/2546.0 1	1:1	0.047	-0.08	18.37	20.00	1.455	0.069	22.1
Ant1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scale factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size RB offset									
Head Test data(1RB)												
Left cheek	100	QPSK	1_1	509202/2546.0 1	1:1	0.468	0.00	17.31	18.00	1.172	0.549	22.1
Left tilted	100	QPSK	1_1	509202/2546.0 1	1:1	0.141	-0.03	17.31	18.00	1.172	0.165	22.1
Right cheek	100	QPSK	1_1	509202/2546.0 1	1:1	0.991	0.01	17.31	18.00	1.172	1.162	22.1
Right tilted	100	QPSK	1_1	509202/2546.0 1	1:1	0.314	-0.16	17.31	18.00	1.172	0.368	22.1
Right cheek	100	QPSK	1_1	513900/2569.5	1:1	0.941	0.08	16.94	18.00	1.276	1.201	22.1
Right cheek	100	QPSK	1_1	518598/2592.9 9	1:1	0.892	0.04	16.85	18.00	1.303	1.162	22.1
Right cheek	100	QPSK	1_1	523302/2616.5 1	1:1	0.976	0.07	16.71	18.00	1.346	1.314	22.1
Right cheek-repeat	100	QPSK	1_1	523302/2616.5 1	1:1	0.961	0.17	16.71	18.00	1.346	1.293	22.1
Right cheek	100	QPSK	1_1	528000/2640	1:1	0.841	0.09	16.58	18.00	1.387	1.166	22.1
Head Test data(50%RB)												
Left cheek	100	QPSK	135_69	523302/2616.5 1	1:1	0.350	0.10	16.85	18.00	1.303	0.456	22.1
Left tilted	100	QPSK	135_69	523302/2616.5 1	1:1	0.118	-0.05	16.85	18.00	1.303	0.154	22.1
Right cheek	100	QPSK	135_69	523302/2616.5 1	1:1	0.787	0.10	16.85	18.00	1.303	1.026	22.1
Right tilted	100	QPSK	135_69	523302/2616.5 1	1:1	0.283	-0.19	16.85	18.00	1.303	0.369	22.1
Right cheek	100	QPSK	135_69	509202/2546.0 1	1:1	0.880	0.15	16.80	18.00	1.318	1.160	22.1
Right cheek	100	QPSK	135_69	513900/2569.5	1:1	0.836	0.04	16.78	18.00	1.324	1.107	22.1
Right cheek	100	QPSK	135_69	518598/2592.9 9	1:1	0.834	0.08	16.72	18.00	1.343	1.120	22.1
Right cheek	100	QPSK	135_69	528000/2640	1:1	0.668	0.02	16.60	18.00	1.380	0.922	22.1
Head Test data(100%RB)												
Right cheek	100	QPSK	270RB_0	509202/2546.0 1	1:1	0.668	0.09	15.95	17.00	1.274	0.851	22.1
Body worn Test data(Separate 10mm 1RB)												
Front side	100	QPSK	1_1	509202/2546.0 1	1:1	0.360	0.07	18.25	20.00	1.496	0.539	22.1
Back side	100	QPSK	1_1	509202/2546.0 1	1:1	0.283	0.07	18.25	20.00	1.496	0.423	22.1
Body worn Test data (Separate 10mm 50%RB)												
Front side	100	QPSK	135_69	523302/2616.5 1	1:1	0.272	0.02	17.87	20.00	1.560	0.424	22.1
Back side	100	QPSK	135_69	523302/2616.5 1	1:1	0.230	-0.11	17.87	20.00	1.560	0.359	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	100	QPSK	1_1	509202/2546.0 1	1:1	0.360	0.07	18.25	20.00	1.496	0.539	22.1
Back side	100	QPSK	1_1	509202/2546.0 1	1:1	0.283	0.07	18.25	20.00	1.496	0.423	22.1



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Left side	100	QPSK	1_1	509202/2546.0 1	1:1	0.352	0.13	18.25	20.00	1.496	0.527	22.1
Right side	100	QPSK	1_1	509202/2546.0 1	1:1	0.022	0.06	18.25	20.00	1.496	0.032	22.1
Top side	100	QPSK	1_1	509202/2546.0 1	1:1	0.090	0.09	18.25	20.00	1.496	0.134	22.1
Hotspot Test data (Separate 10mm 50%RB)												
Front side	100	QPSK	135_69	523302/2616.5 1	1:1	0.272	0.02	17.87	20.00	1.560	0.424	22.1
Back side	100	QPSK	135_69	523302/2616.5 1	1:1	0.230	-0.11	17.87	20.00	1.560	0.359	22.1
Left side	100	QPSK	135_69	523302/2616.5 1	1:1	0.316	0.04	17.87	20.00	1.560	0.493	22.1
Right side	100	QPSK	135_69	523302/2616.5 1	1:1	0.010	0.07	17.87	20.00	1.560	0.016	22.1
Top side	100	QPSK	135_69	523302/2616.5 1	1:1	0.055	0.02	17.87	20.00	1.560	0.086	22.1
Ant1 Test Record with Simultaneous transmission												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scale factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_RB offset									
Head Test data(1RB)												
Left cheek	100	QPSK	1_1	509202/2546.0 1	1:1	0.468	0.00	17.31	17.00	0.931	0.436	22.1
Left tilted	100	QPSK	1_1	509202/2546.0 1	1:1	0.141	-0.03	17.31	17.00	0.931	0.131	22.1
Right cheek	100	QPSK	1_1	509202/2546.0 1	1:1	0.991	0.01	17.31	17.00	0.931	0.923	22.1
Right tilted	100	QPSK	1_1	509202/2546.0 1	1:1	0.314	-0.16	17.31	17.00	0.931	0.292	22.1
Right cheek	100	QPSK	1_1	513900/2569.5	1:1	0.941	0.08	16.94	17.00	1.014	0.954	22.1
Right cheek	100	QPSK	1_1	518598/2592.9 9	1:1	0.892	0.04	16.85	17.00	1.035	0.923	22.1
Right cheek	100	QPSK	1_1	523302/2616.5 1	1:1	0.976	0.07	16.71	17.00	1.069	1.043	22.1
Right cheek-repeat	100	QPSK	1_1	523302/2616.5 1	1:1	0.961	0.17	16.71	17.00	1.069	1.027	22.1
Right cheek	100	QPSK	1_1	528000/2640	1:1	0.841	0.09	16.58	17.00	1.102	0.926	22.1
Head Test data(50%RB)												
Left cheek	100	QPSK	135_69	523302/2616.5 1	1:1	0.350	0.10	16.85	17.00	1.035	0.362	22.1
Left tilted	100	QPSK	135_69	523302/2616.5 1	1:1	0.118	-0.05	16.85	17.00	1.035	0.122	22.1
Right cheek	100	QPSK	135_69	523302/2616.5 1	1:1	0.787	0.10	16.85	17.00	1.035	0.815	22.1
Right tilted	100	QPSK	135_69	523302/2616.5 1	1:1	0.283	-0.19	16.85	17.00	1.035	0.293	22.1
Right cheek	100	QPSK	135_69	509202/2546.0 1	1:1	0.880	0.15	16.80	17.00	1.047	0.921	22.1
Right cheek	100	QPSK	135_69	513900/2569.5	1:1	0.836	0.04	16.78	17.00	1.052	0.879	22.1
Right cheek	100	QPSK	135_69	518598/2592.9 9	1:1	0.834	0.08	16.72	17.00	1.067	0.890	22.1
Right cheek	100	QPSK	135_69	528000/2640	1:1	0.668	0.02	16.60	17.00	1.096	0.732	22.1
Head Test data(100%RB)												
Right cheek	100	QPSK	270RB_0	509202/2546.0 1	1:1	0.668	0.09	15.95	17.00	1.274	0.851	22.1
Ant3 Test Record with Simultaneous transmission												
Test position	Test mode			Test ch./Freq.	Duty Cycle Scale factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW	Modulation	RB Size_RB offset									
Head Test data(1RB)												



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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsigroup.com.cn
 Shenzhen Branch 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com