



**FCC SAR Test Report**

**Report No. : FA441212**

Model	Power	Modulation	Ch 1	Ch 2	Frequency	Distance	Antenna	Antenna Type	Antenna Gain	Frequency	Power	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8	Ch 9	Ch 10	Ch 11	Ch 12	Ch 13	Ch 14	
FR1 n66 Other PA	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI7	349000	1745	1	22.28	24.00	1.486	-	-	0.01	0.836	1.242						
FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI7	349000	1745	1	22.85	24.00	1.303	-	-	0.1	0.873	1.138						
FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI7	349000	1745	1	22.85	24.00	1.303	-	-	-0.13	0.413	0.538						
FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	22.85	24.00	1.303	-	-	-0.06	0.787	1.026						
FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 2	DSI7	349000	1745	1	22.82	24.00	1.312	-	-	0.1	0.903	1.185						
FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	DSI7	349000	1745	1	22.82	24.00	1.312	-	-	0.06	0.825	1.083						
FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 2	DSI7	349000	1745	1	22.82	24.00	1.312	-	-	0.02	0.407	0.534						
FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	22.82	24.00	1.312	-	-	0.02	0.733	0.962						
FR1 n66	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 2	DSI7	349000	1745	1	22.70	23.00	1.072	-	-	-0.07	0.896	0.960						
FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 2	DSI7	349000	1745	1	22.70	23.00	1.072	-	-	0.02	0.818	0.877						
FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	22.70	23.00	1.072	-	-	-0.02	0.734	0.786						
FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI7	349000	1745	1	14.38	15.50	1.294	-	-	-0.06	0.165	0.214						
FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI7	349000	1745	1	14.38	15.50	1.294	-	-	-0.04	0.461	0.597						
FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI7	349000	1745	1	14.38	15.50	1.294	-	-	0.12	0.228	0.295						
FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI7	349000	1745	1	14.38	15.50	1.294	-	-	0.09	0.261	0.338						
FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	DSI7	349000	1745	1	14.35	15.50	1.303	-	-	-0.13	0.176	0.229						
FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI7	349000	1745	1	14.35	15.50	1.303	-	-	0.15	0.471	0.614						
FR1 n66 Other PA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI7	349000	1745	1	14.35	15.50	1.303	-	-	0.03	0.465	0.606						
FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 1	DSI7	349000	1745	1	14.35	15.50	1.303	-	-	0.08	0.231	0.301						
FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	DSI7	349000	1745	1	14.35	15.50	1.303	-	-	-0.15	0.285	0.371						
FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI7	349000	1745	1	19.55	21.00	1.396	-	-	-0.03	0.557	0.778						
FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI7	349000	1745	1	19.55	21.00	1.396	-	-	0.14	0.760	1.061						
FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	DSI7	349000	1745	1	19.55	21.00	1.396	-	-	-0.03	0.675	0.943						
FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI7	349000	1745	1	19.55	21.00	1.396	-	-	0.02	0.516	0.721						
FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	DSI7	349000	1745	1	19.52	21.00	1.406	-	-	0.02	0.529	0.744						
FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	DSI7	349000	1745	1	19.52	21.00	1.406	-	-	0.08	0.736	1.035						
FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 0	DSI7	349000	1745	1	19.52	21.00	1.406	-	-	0.15	0.623	0.876						
FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI7	349000	1745	1	19.52	21.00	1.406	-	-	0.04	0.502	0.706						
FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	DSI7	349000	1745	1	19.41	21.00	1.442	-	-	0.08	0.720	1.038						
FR1 n66	40M	QPSK	216	0	DFT-15	Left Side	5mm	Ant 0	DSI7	349000	1745	1	19.41	21.00	1.442	-	-	-0.02	0.612	0.883						
<b>1900Mhz</b>																										
34	GSM1900				GPRS(3 Tx slots)	Front	5mm	Ant 2	DSI7	661	1880	1	25.76	25.80	1.009	-	-	0.07	0.749	<b>0.756</b>						
	GSM1900				GPRS(3 Tx slots)	Back	5mm	Ant 2	DSI7	661	1880	1	25.76	25.80	1.009	-	-	0.12	0.620	0.626						
	GSM1900				GPRS(3 Tx slots)	Right Side	5mm	Ant 2	DSI7	661	1880	1	25.76	25.80	1.009	-	-	-0.15	0.413	0.417						
	GSM1900				GPRS(3 Tx slots)	Bottom Side	5mm	Ant 2	DSI7	661	1880	1	25.76	25.80	1.009	-	-	-0.04	0.536	0.541						
35	WCDMA II				RMC 12.2Kbps	Front	5mm	Ant 2	DSI7	9400	1880	1	21.68	22.70	1.265	-	-	0.09	0.812	<b>1.027</b>						
	WCDMA II				RMC 12.2Kbps	Back	5mm	Ant 2	DSI7	9400	1880	1	21.68	22.70	1.265	-	-	0.09	0.649	0.821						
	WCDMA II				RMC 12.2Kbps	Right Side	5mm	Ant 2	DSI7	9400	1880	1	21.68	22.70	1.265	-	-	-0.14	0.385	0.487						
	WCDMA II				RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI7	9400	1880	1	21.68	22.70	1.265	-	-	0.11	0.705	0.892						
	WCDMA II				RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI7	9262	1852.4	1	21.62	22.70	1.282	-	-	-0.1	0.635	0.814						
	WCDMA II				RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI7	9538	1907.6	1	21.66	22.70	1.271	-	-	-0.13	0.640	0.813						
	WCDMA II				RMC 12.2Kbps	Front	5mm	Ant 2	DSI7	9262	1852.4	1	21.62	22.70	1.282	-	-	0.03	0.661	0.848						
	WCDMA II				RMC 12.2Kbps	Front	5mm	Ant 2	DSI7	9538	1907.6	1	21.66	22.70	1.271	-	-	-0.15	0.775	0.985						
	WCDMA II				RMC 12.2Kbps	Back	5mm	Ant 2	DSI7	9262	1852.4	1	21.62	22.70	1.282	-	-	0.12	0.615	0.789						
	WCDMA II				RMC 12.2Kbps	Back	5mm	Ant 2	DSI7	9538	1907.6	1	21.66	22.70	1.271	-	-	0.05	0.625	0.794						
	WCDMA II				RMC 12.2Kbps	Front	5mm	Ant 1	DSI7	9400	1880	1	15.79	17.70	1.552	-	-	0.16	0.141	0.219						
	WCDMA II				RMC 12.2Kbps	Back	5mm	Ant 1	DSI7	9400	1880	1	15.79	17.70	1.552	-	-	-0.11	0.392	0.609						
	WCDMA II				RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI7	9400	1880	1	15.79	17.70	1.552	-	-	0.13	0.086	0.134						
	WCDMA II				RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI7	9400	1880	1	15.79	17.70	1.552	-	-	-0.02	0.350	0.543						
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI7	26340	1880	1	21.70	23.20	1.413	-	-	0.14	0.857	1.211					
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	26340	1880	1	21.70	23.20	1.413	-	-	-0.12	0.735	1.038					
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI7	26340	1880	1	21.70	23.20	1.413	-	-	-0.13	0.421	0.595					
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	26340	1880	1	21.70	23.20	1.413	-	-	0.14	0.825	1.165					
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	26140	1860	1	21.63	23.20	1.435	-	-	0.07							



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Table with columns for LTE Band, Modulation, Power, MPE, SAR, Frequency, Location, Antenna, etc. Row 36 is highlighted in yellow.



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	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 2	DSI7	372000	1860	1	19.31	20.50	1.315	-	-	0.15	0.808	1.063
	FR1 n2 Other PA	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 2	DSI7	372000	1860	1	19.31	20.50	1.315	-	-	-0.09	0.678	0.892
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 2	DSI7	380000	1900	1	19.28	20.50	1.324	-	-	-0.12	0.691	0.915
	FR1 n2	20M	QPSK	100	0	DFT-15	Bottom Side	5mm	Ant 2	DSI7	376000	1880	1	19.29	20.50	1.321	-	-	-0.15	0.715	0.945
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI7	376000	1880	1	14.12	15.50	1.374	-	-	-0.01	0.136	0.187
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI7	376000	1880	1	14.12	15.50	1.374	-	-	-0.16	0.350	0.481
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI7	376000	1880	1	14.12	15.50	1.374	-	-	-0.12	0.109	0.150
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI7	376000	1880	1	14.12	15.50	1.374	-	-	0	0.262	0.360
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI7	376000	1880	1	14.10	15.50	1.380	-	-	-0.14	0.145	0.200
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI7	376000	1880	1	14.10	15.50	1.380	-	-	0.16	0.368	0.508
	FR1 n2 Other PA	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI7	376000	1880	1	14.10	15.50	1.380	-	-	0.07	0.345	0.476
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 1	DSI7	376000	1880	1	14.10	15.50	1.380	-	-	0.01	0.114	0.157
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	5mm	Ant 1	DSI7	376000	1880	1	14.10	15.50	1.380	-	-	-0.12	0.273	0.377
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI7	376000	1880	1	20.28	22.00	1.486	-	-	0.08	0.716	1.064
37	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI7	376000	1880	1	20.28	22.00	1.486	-	-	-0.05	0.828	1.230
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	DSI7	376000	1880	1	20.28	22.00	1.486	-	-	-0.05	0.410	0.609
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI7	376000	1880	1	20.28	22.00	1.486	-	-	-0.06	0.670	0.996
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI7	372000	1860	1	20.24	22.00	1.500	-	-	0.11	0.694	1.041
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI7	380000	1900	1	20.22	22.00	1.507	-	-	0.07	0.639	0.963
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI7	372000	1860	1	20.24	22.00	1.500	-	-	-0.15	0.744	1.116
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI7	380000	1900	1	20.22	22.00	1.507	-	-	0.12	0.685	1.032
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI7	372000	1860	1	20.24	22.00	1.500	-	-	-0.1	0.810	1.215
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI7	380000	1900	1	20.22	22.00	1.507	-	-	0.09	0.786	1.184
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	DSI7	376000	1880	1	20.25	22.00	1.496	-	-	0.13	0.680	1.017
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI7	376000	1880	1	20.25	22.00	1.496	-	-	-0.14	0.791	1.184
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 0	DSI7	376000	1880	1	20.25	22.00	1.496	-	-	-0.02	0.402	0.601
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	DSI7	376000	1880	1	20.25	22.00	1.496	-	-	-0.03	0.645	0.965
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	DSI7	372000	1860	1	20.23	22.00	1.503	-	-	0.15	0.671	1.009
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	DSI7	380000	1900	1	20.20	22.00	1.514	-	-	-0.1	0.623	0.943
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	DSI7	372000	1860	1	20.23	22.00	1.503	-	-	-0.08	0.731	1.099
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	DSI7	380000	1900	1	20.20	22.00	1.514	-	-	-0.09	0.673	1.019
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI7	372000	1860	1	20.23	22.00	1.503	-	-	-0.08	0.784	1.178
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI7	380000	1900	1	20.20	22.00	1.514	-	-	-0.04	0.767	1.161
	FR1 n2	20M	QPSK	100	0	DFT-15	Front	5mm	Ant 0	DSI7	376000	1880	1	20.21	22.00	1.510	-	-	-0.08	0.650	0.982
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	DSI7	376000	1880	1	20.21	22.00	1.510	-	-	0.1	0.745	1.125
	FR1 n2	20M	QPSK	100	0	DFT-15	Bottom Side	5mm	Ant 0	DSI7	376000	1880	1	20.21	22.00	1.510	-	-	-0.14	0.630	0.951
<b>2600Mhz</b>																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI7	21100	2535	1	18.77	19.90	1.297	-	-	-0.08	0.514	0.667
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	21100	2535	1	18.77	19.90	1.297	-	-	0.09	0.539	0.699
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI7	21100	2535	1	18.77	19.90	1.297	-	-	-0.04	0.353	0.458
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	21100	2535	1	18.77	19.90	1.297	-	-	0.11	0.893	1.158
38	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	20850	2510	1	18.70	19.90	1.318	-	-	-0.08	0.955	1.259
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	20850	2510	2	18.70	19.90	1.318	-	-	0.03	0.919	1.211
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	20850+ 21048	2510+ 2529.8	1	18.65	19.90	1.334	-	-	0.06	0.884	1.179
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	21350	2560	1	18.72	19.90	1.312	-	-	0	0.903	1.185
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI7	21100	2535	1	18.73	19.90	1.309	-	-	-0.11	0.475	0.622
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI7	21100	2535	1	18.73	19.90	1.309	-	-	0.08	0.516	0.676
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI7	21100	2535	1	18.73	19.90	1.309	-	-	0.16	0.343	0.449
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	21100	2535	1	18.73	19.90	1.309	-	-	0.12	0.873	1.143
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	20850	2510	1	18.65	19.90	1.334	-	-	0.09	0.912	1.216
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	21350	2560	1	18.69	19.90	1.321	-	-	0.03	0.876	1.157
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	DSI7	21100	2535	1	18.70	19.90	1.318	-	-	-0.08	0.866	1.142
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	21100	2535	1	15.28	16.20	1.236	-	-	-0.05	0.204	0.252
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	21100	2535	1	15.28	16.20	1.236	-	-	0.1	0.490	0.606
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	21100+ 20902	2535+ 2515.2	1	15.22	16.20	1.253	-	-	0.02	0.439	0.550



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	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	21100	2535	1	15.28	16.20	1.236	-	-	0.07	0.253	0.313
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	15.28	16.20	1.236	-	-	-0.13	0.281	0.347
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	21100	2535	1	15.24	16.20	1.247	-	-	-0.08	0.195	0.243
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	21100	2535	1	15.24	16.20	1.247	-	-	-0.02	0.448	0.559
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	21100	2535	1	15.24	16.20	1.247	-	-	-0.08	0.248	0.309
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	15.24	16.20	1.247	-	-	0.15	0.270	0.337
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	21100	2535	1	17.70	19.20	1.413	-	-	0.03	0.485	0.685
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	21100	2535	1	17.70	19.20	1.413	-	-	-0.15	0.561	0.792
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	21100	2535	1	17.70	19.20	1.413	-	-	0.14	0.274	0.387
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	21100	2535	1	17.70	19.20	1.413	-	-	0.03	0.741	1.047
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	21100+20902	2535+2515.2	1	17.63	19.20	1.435	-	-	0.05	0.700	1.005
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	20850	2510	1	17.66	19.20	1.426	-	-	0.13	0.704	1.004
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	21350	2560	1	17.62	19.20	1.439	-	-	0.08	0.722	1.039
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	21100	2535	1	17.65	19.20	1.429	-	-	-0.07	0.476	0.680
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	21100	2535	1	17.65	19.20	1.429	-	-	-0.15	0.546	0.780
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI7	21100	2535	1	17.65	19.20	1.429	-	-	-0.02	0.265	0.379
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	21100	2535	1	17.65	19.20	1.429	-	-	0.12	0.719	1.027
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	20850	2510	1	17.64	19.20	1.432	-	-	-0.05	0.678	0.971
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	21350	2560	1	17.60	19.20	1.445	-	-	0.03	0.692	1.000
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI7	21100	2535	1	17.63	19.20	1.435	-	-	-0.11	0.705	1.012
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI7	40620	2593	1	21.10	22.00	1.230	62.9	1.006	0.06	0.425	0.526
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	40620	2593	1	21.10	22.00	1.230	62.9	1.006	-0.11	0.561	0.694
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI7	40620	2593	1	21.10	22.00	1.230	62.9	1.006	-0.06	0.364	0.451
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	40620	2593	1	21.10	22.00	1.230	62.9	1.006	0.11	0.937	1.160
39	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	39750	2506	1	21.08	22.00	1.236	62.9	1.006	-0.03	1.000	1.243
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	39750+39948	2506+2525.8	1	20.96	22.00	1.271	62.9	1.006	0.01	0.931	1.190
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	40185	2549.5	1	21.05	22.00	1.245	62.9	1.006	0.04	0.933	1.168
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	41055	2636.5	1	21.02	22.00	1.253	62.9	1.006	0.04	0.858	1.082
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	DSI7	41490	2680	1	21.00	22.00	1.259	62.9	1.006	-0.07	0.770	0.975
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	39750	2506	1	21.08	22.00	1.236	62.9	1.006	0.01	0.626	0.778
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	40185	2549.5	1	21.05	22.00	1.245	62.9	1.006	-0.08	0.572	0.716
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	41055	2636.5	1	21.02	22.00	1.253	62.9	1.006	-0.07	0.526	0.663
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI7	41490	2680	1	21.00	22.00	1.259	62.9	1.006	-0.03	0.471	0.597
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI7	40620	2593	1	21.08	22.00	1.236	62.9	1.006	-0.14	0.394	0.490
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI7	40620	2593	1	21.08	22.00	1.236	62.9	1.006	-0.02	0.541	0.673
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI7	40620	2593	1	21.08	22.00	1.236	62.9	1.006	0.11	0.344	0.428
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	40620	2593	1	21.08	22.00	1.236	62.9	1.006	-0.02	0.926	1.151
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	39750	2506	1	21.02	22.00	1.253	62.9	1.006	-0.11	0.916	1.155
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	40185	2549.5	1	20.98	22.00	1.265	62.9	1.006	0.05	0.925	1.177
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	41055	2636.5	1	21.00	22.00	1.259	62.9	1.006	0.11	0.837	1.060
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	DSI7	41490	2680	1	20.98	22.00	1.265	62.9	1.006	0.03	0.786	1.000
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI7	39750	2506	1	21.02	22.00	1.253	62.9	1.006	-0.02	0.611	0.770
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI7	40185	2549.5	1	20.98	22.00	1.265	62.9	1.006	0.02	0.562	0.715
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI7	41055	2636.5	1	21.00	22.00	1.259	62.9	1.006	0.14	0.509	0.645
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI7	41490	2680	1	20.98	22.00	1.265	62.9	1.006	-0.09	0.467	0.594
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	DSI7	40620	2593	1	21.02	22.00	1.253	62.9	1.006	0.14	0.537	0.677
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	DSI7	40620	2593	1	21.02	22.00	1.253	62.9	1.006	0.01	0.918	1.157
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	40620	2593	1	16.70	17.30	1.148	62.9	1.006	-0.11	0.146	0.169
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	40620	2593	1	16.70	17.30	1.148	62.9	1.006	-0.09	0.255	0.295
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	40620	2593	1	16.70	17.30	1.148	62.9	1.006	-0.03	0.478	0.552
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	40620+40422	2593+2573.2	1	16.60	17.30	1.175	62.9	1.006	0.12	0.443	0.524
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	40620	2593	1	16.70	17.30	1.148	62.9	1.006	0	0.140	0.162
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	40620	2593	1	16.64	17.30	1.164	62.9	1.006	-0.05	0.145	0.170
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	40620	2593	1	16.64	17.30	1.164	62.9	1.006	0.15	0.254	0.297
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	40620	2593	1	16.64	17.30	1.164	62.9	1.006	-0.15	0.343	0.402



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LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	40620	2593	1	16.64	17.30	1.164	62.9	1.006	-0.08	0.133	0.156
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	40620	2593	1	20.10	21.60	1.413	62.9	1.006	0.11	0.535	0.760
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	40620	2593	1	20.10	21.60	1.413	62.9	1.006	0.15	0.689	0.979
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	40620	2593	1	20.10	21.60	1.413	62.9	1.006	-0.01	0.364	0.517
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	40620	2593	1	20.10	21.60	1.413	62.9	1.006	0.09	0.749	1.064
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	39750	2506	1	20.03	21.60	1.435	62.9	1.006	0.08	0.748	1.080
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	40185	2549.5	1	20.08	21.60	1.419	62.9	1.006	0.06	0.798	1.139
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	41055	2636.5	1	20.00	21.60	1.445	62.9	1.006	0.02	0.746	1.085
LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	41490	2680	1	20.05	21.60	1.429	62.9	1.006	0.04	0.839	1.206
LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	41490+ 41292	2680+ 2660.2	1	19.95	21.60	1.462	62.9	1.006	0.11	0.786	1.156
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	39750	2506	1	20.03	21.60	1.435	62.9	1.006	0.12	0.521	0.752
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	40185	2549.5	1	20.08	21.60	1.419	62.9	1.006	0.01	0.562	0.802
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	41055	2636.5	1	20.00	21.60	1.445	62.9	1.006	-0.01	0.519	0.755
LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	41490	2680	1	20.05	21.60	1.429	62.9	1.006	-0.14	0.576	0.828
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	39750	2506	1	20.03	21.60	1.435	62.9	1.006	-0.12	0.642	0.927
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	40185	2549.5	1	20.08	21.60	1.419	62.9	1.006	0.02	0.687	0.981
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	41055	2636.5	1	20.00	21.60	1.445	62.9	1.006	-0.07	0.643	0.935
LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	41490	2680	1	20.05	21.60	1.429	62.9	1.006	-0.13	0.725	1.042
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	40620	2593	1	20.08	21.60	1.419	62.9	1.006	0.01	0.526	0.751
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	40620	2593	1	20.08	21.60	1.419	62.9	1.006	0.09	0.672	0.959
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI7	40620	2593	1	20.08	21.60	1.419	62.9	1.006	-0.02	0.351	0.501
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	40620	2593	1	20.08	21.60	1.419	62.9	1.006	-0.12	0.729	1.041
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	39750	2506	1	20.02	21.60	1.439	62.9	1.006	0.11	0.712	1.031
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	40185	2549.5	1	20.05	21.60	1.429	62.9	1.006	0.03	0.745	1.071
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	41055	2636.5	1	19.97	21.60	1.455	62.9	1.006	0.11	0.731	1.070
LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	41490	2680	1	19.99	21.60	1.449	62.9	1.006	-0.04	0.816	1.189
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	39750	2506	1	20.02	21.60	1.439	62.9	1.006	0.09	0.506	0.732
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	40185	2549.5	1	20.05	21.60	1.429	62.9	1.006	0.03	0.553	0.795
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	41055	2636.5	1	19.97	21.60	1.455	62.9	1.006	-0.14	0.506	0.741
LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	41490	2680	1	19.99	21.60	1.449	62.9	1.006	-0.15	0.537	0.783
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	39750	2506	1	20.02	21.60	1.439	62.9	1.006	-0.01	0.631	0.913
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	40185	2549.5	1	20.05	21.60	1.429	62.9	1.006	0.04	0.654	0.940
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	41055	2636.5	1	19.97	21.60	1.455	62.9	1.006	0.09	0.633	0.927
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	41490	2680	1	19.99	21.60	1.449	62.9	1.006	0.1	0.702	1.023
LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 0	DSI7	40620	2593	1	20.02	21.60	1.439	62.9	1.006	-0.07	0.520	0.753
LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI7	40620	2593	1	20.02	21.60	1.439	62.9	1.006	0.12	0.659	0.954
LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI7	40620	2593	1	20.02	21.60	1.439	62.9	1.006	-0.1	0.715	1.035
FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI7	507000	2535	1	20.33	21.00	1.167	-	-	0.13	0.598	0.698
FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI7	507000	2535	1	20.33	21.00	1.167	-	-	0.14	0.897	1.047
FR1 n7	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI7	507000	2535	1	20.33	21.00	1.167	-	-	-0.11	0.384	0.448
FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	DSI7	507000	2535	1	20.33	21.00	1.167	-	-	-0.09	0.998	1.164
FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 2	DSI7	507000	2535	1	20.30	21.00	1.175	-	-	0.02	0.556	0.653
FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	DSI7	507000	2535	1	20.30	21.00	1.175	-	-	0.04	0.864	1.015
FR1 n7	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 2	DSI7	507000	2535	1	20.30	21.00	1.175	-	-	0.12	0.362	0.425
FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 2	DSI7	507000	2535	1	20.30	21.00	1.175	-	-	-0.04	0.930	1.093
FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 2	DSI7	507000	2535	1	20.26	21.00	1.186	-	-	0.08	0.838	0.994
FR1 n7	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 2	DSI7	507000	2535	1	20.26	21.00	1.186	-	-	0.02	0.900	1.067
FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI7	507000	2535	1	16.29	17.00	1.178	-	-	0.02	0.164	0.193
FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI7	507000	2535	1	16.29	17.00	1.178	-	-	0.03	0.478	0.563
FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI7	507000	2535	1	16.29	17.00	1.178	-	-	0.1	0.313	0.369
FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI7	507000	2535	1	16.29	17.00	1.178	-	-	-0.03	0.287	0.338
FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	DSI7	507000	2535	1	16.23	17.00	1.194	-	-	0.05	0.162	0.193
FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI7	507000	2535	1	16.23	17.00	1.194	-	-	-0.06	0.445	0.531
FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 1	DSI7	507000	2535	1	16.23	17.00	1.194	-	-	-0.15	0.284	0.339
FR1 n7	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	DSI7	507000	2535	1	16.23	17.00	1.194	-	-	-0.1	0.274	0.327
FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	DSI7	507000	2535	1	17.60	19.00	1.380	-	-	-0.01	0.511	0.705



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	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	DSI7	507000	2535	1	17.60	19.00	1.380	-	-	0.01	0.640	0.883
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	DSI7	507000	2535	1	17.60	19.00	1.380	-	-	-0.08	0.399	0.551
40	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	DSI7	507000	2535	1	17.60	19.00	1.380	-	-	0.01	0.884	1.220
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	DSI7	507000	2535	1	17.56	19.00	1.393	-	-	-0.05	0.481	0.670
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	DSI7	507000	2535	1	17.56	19.00	1.393	-	-	-0.11	0.615	0.857
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 0	DSI7	507000	2535	1	17.56	19.00	1.393	-	-	-0.09	0.385	0.536
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	DSI7	507000	2535	1	17.56	19.00	1.393	-	-	-0.07	0.865	1.205
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	DSI7	507000	2535	1	17.55	19.00	1.396	-	-	0.07	0.590	0.824
	FR1 n7	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 0	DSI7	507000	2535	1	17.55	19.00	1.396	-	-	-0.02	0.850	1.187
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSI7	518598	2592.99	1	19.16	20.00	1.213	-	-	-0.1	0.510	0.619
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI7	518598	2592.99	1	19.16	20.00	1.213	-	-	0.15	0.638	0.774
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 2	DSI7	518598	2592.99	1	19.16	20.00	1.213	-	-	0.03	0.347	0.421
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	19.16	20.00	1.213	-	-	-0.14	0.906	1.099
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	DSI7	518598	2592.99	1	19.14	20.00	1.219	-	-	-0.12	0.548	0.668
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI7	518598	2592.99	1	19.14	20.00	1.219	-	-	-0.09	0.663	0.808
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 2	DSI7	518598	2592.99	1	19.14	20.00	1.219	-	-	0.11	0.375	0.457
41	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	19.14	20.00	1.219	-	-	0.07	1.030	1.256
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 2	DSI7	518598	2592.99	1	19.06	20.00	1.242	-	-	-0.06	0.538	0.668
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	DSI7	518598	2592.99	1	19.06	20.00	1.242	-	-	-0.01	0.634	0.787
	FR1 n41	100M	QPSK	270	0	DFT-30	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	19.06	20.00	1.242	-	-	0	0.935	1.161
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	DSI7	518598	2592.99	1	15.28	16.00	1.180	-	-	-0.02	0.200	0.236
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	DSI7	518598	2592.99	1	15.28	16.00	1.180	-	-	-0.07	0.299	0.353
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	15.28	16.00	1.180	-	-	-0.05	0.468	0.552
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	15.28	16.00	1.180	-	-	-0.08	0.101	0.119
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	DSI7	518598	2592.99	1	15.27	16.00	1.183	-	-	0.05	0.211	0.250
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	DSI7	518598	2592.99	1	15.27	16.00	1.183	-	-	-0.12	0.310	0.367
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	15.27	16.00	1.183	-	-	-0.02	0.500	0.592
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	15.27	16.00	1.183	-	-	0.03	0.106	0.125
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	DSI7	519000	2595	1	18.33	20.00	1.469	-	-	0	0.581	0.853
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	DSI7	519000	2595	1	18.33	20.00	1.469	-	-	-0.16	0.730	1.072
	FR1 n38	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 0	DSI7	519000	2595	1	18.33	20.00	1.469	-	-	0.1	0.311	0.457
90	FR1 n38	40M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 0	DSI7	519000	2595	1	18.33	20.00	1.469	-	-	0	0.810	1.190
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 0	DSI7	519000	2595	1	18.31	20.00	1.476	-	-	-0.15	0.546	0.806
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 0	DSI7	519000	2595	1	18.31	20.00	1.476	-	-	-0.16	0.755	1.114
	FR1 n38	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 0	DSI7	519000	2595	1	18.31	20.00	1.476	-	-	-0.07	0.302	0.446
	FR1 n38	40M	QPSK	50	28	DFT-30	Bottom Side	5mm	Ant 0	DSI7	519000	2595	1	18.31	20.00	1.476	-	-	-0.12	0.746	1.101
	FR1 n38	40M	QPSK	100	0	DFT-30	Front	5mm	Ant 0	DSI7	518598	2592.99	1	18.33	20.00	1.469	-	-	-0.12	0.515	0.756
	FR1 n38	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 0	DSI7	518598	2592.99	1	18.33	20.00	1.469	-	-	0.04	0.718	1.055
	FR1 n38	40M	QPSK	100	0	DFT-30	Bottom Side	5mm	Ant 0	DSI7	518598	2592.99	1	18.33	20.00	1.469	-	-	-0.14	0.728	1.069
<b>3500Mhz</b>																					
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI7	42590	3500	1	17.75	18.20	1.109	62.9	1.006	-0.05	0.200	0.223
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	42590	3500	1	17.75	18.20	1.109	62.9	1.006	-0.05	0.294	0.328
	LTE Band 42	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI7	42590	3500	1	17.75	18.20	1.109	62.9	1.006	0.06	0.525	0.586
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI7	42590	3500	1	17.72	18.20	1.117	62.9	1.006	-0.02	0.184	0.207
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 4	DSI7	42590	3500	1	17.72	18.20	1.117	62.9	1.006	-0.06	0.284	0.319
	LTE Band 42	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI7	42590	3500	1	17.72	18.20	1.117	62.9	1.006	-0.04	0.505	0.567
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 3	DSI7	42590	3500	1	18.40	19.60	1.318	62.9	1.006	-0.13	0.229	0.304
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	42590	3500	1	18.40	19.60	1.318	62.9	1.006	-0.12	0.409	0.542
	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 3	DSI7	42590	3500	1	18.40	19.60	1.318	62.9	1.006	-0.06	0.127	0.168
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 3	DSI7	42590	3500	1	18.40	19.60	1.318	62.9	1.006	-0.09	0.420	0.557
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 3	DSI7	42590	3500	1	18.35	19.60	1.334	62.9	1.006	-0.08	0.215	0.288
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 3	DSI7	42590	3500	1	18.35	19.60	1.334	62.9	1.006	-0.16	0.394	0.529
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 3	DSI7	42590	3500	1	18.35	19.60	1.334	62.9	1.006	0.1	0.121	0.162
	LTE Band 42	20M	QPSK	50	0	-	Top Side	5mm	Ant 3	DSI7	42590	3500	1	18.35	19.60	1.334	62.9	1.006	-0.12	0.392	0.526
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 6	DSI7	42590	3500	1	23.63	24.00	1.089	62.9	1.006	-0.12	0.325	0.356
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI7	42590	3500	1	23.63	24.00	1.089	62.9	1.006	0.11	0.399	0.437



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	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	DSI7	42590	3500	1	23.63	24.00	1.089	62.9	1.006	0.07	0.880	0.964
	LTE Band 42	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 6	DSI7	42590	3500	1	23.63	24.00	1.089	62.9	1.006	0.04	0.191	0.209
	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	DSI7	42190	3460	1	23.52	24.00	1.117	62.9	1.006	-0.07	0.900	1.011
42	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	DSI7	42990	3540	1	23.55	24.00	1.109	62.9	1.006	0.05	0.959	1.070
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 6	DSI7	42590	3500	1	23.50	24.00	1.122	62.9	1.006	-0.1	0.303	0.342
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI7	42590	3500	1	23.50	24.00	1.122	62.9	1.006	0.1	0.370	0.418
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 6	DSI7	42590	3500	1	23.50	24.00	1.122	62.9	1.006	-0.03	0.826	0.932
	LTE Band 42	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 6	DSI7	42590	3500	1	23.50	24.00	1.122	62.9	1.006	0.08	0.158	0.178
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 6	DSI7	42190	3460	1	23.44	24.00	1.138	62.9	1.006	-0.07	0.835	0.956
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 6	DSI7	42990	3540	1	23.45	24.00	1.135	62.9	1.006	0.05	0.876	1.000
	LTE Band 42	20M	QPSK	100	0	-	Right Side	5mm	Ant 6	DSI7	42590	3500	1	23.42	24.00	1.143	62.9	1.006	0.01	0.775	0.891
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	42590	3500	1	18.39	19.30	1.233	62.9	1.006	0.16	0.157	0.195
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	42590	3500	1	18.39	19.30	1.233	62.9	1.006	0.16	0.454	0.563
	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	42590	3500	1	18.39	19.30	1.233	62.9	1.006	-0.13	0.053	0.066
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 9	DSI7	42590	3500	1	18.39	19.30	1.233	62.9	1.006	-0.16	0.318	0.394
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	42590	3500	1	18.36	19.30	1.242	62.9	1.006	-0.16	0.155	0.194
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	42590	3500	1	18.36	19.30	1.242	62.9	1.006	-0.12	0.426	0.532
	LTE Band 42	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	42590	3500	1	18.36	19.30	1.242	62.9	1.006	0.15	0.051	0.064
	LTE Band 42	20M	QPSK	50	0	-	Top Side	5mm	Ant 9	DSI7	42590	3500	1	18.36	19.30	1.242	62.9	1.006	0.16	0.309	0.386
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	DSI7	633332	3499.98	1	14.72	15.50	1.197	-	-	-0.07	0.178	0.213
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI7	633332	3499.98	1	14.72	15.50	1.197	-	-	0.04	0.371	0.444
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 4	DSI7	633332	3499.98	1	14.72	15.50	1.197	-	-	0.03	0.438	0.524
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	DSI7	633332	3499.98	1	14.65	15.50	1.216	-	-	-0.06	0.180	0.219
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI7	633332	3499.98	1	14.65	15.50	1.216	-	-	-0.04	0.387	0.471
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 4	DSI7	633332	3499.98	1	14.65	15.50	1.216	-	-	0.08	0.479	0.583
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	DSI7	633332	3499.98	1	14.45	15.50	1.274	-	-	-0.13	0.200	0.255
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	DSI7	633332	3499.98	1	14.45	15.50	1.274	-	-	-0.09	0.292	0.372
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 3	DSI7	633332	3499.98	1	14.45	15.50	1.274	-	-	0.08	0.087	0.111
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 3	DSI7	633332	3499.98	1	14.45	15.50	1.274	-	-	-0.12	0.426	0.543
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 3	DSI7	633332	3499.98	1	14.40	15.50	1.288	-	-	0.06	0.196	0.252
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	DSI7	633332	3499.98	1	14.40	15.50	1.288	-	-	-0.1	0.279	0.359
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 3	DSI7	633332	3499.98	1	14.40	15.50	1.288	-	-	0.12	0.081	0.104
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 3	DSI7	633332	3499.98	1	14.40	15.50	1.288	-	-	0.13	0.397	0.511
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 6	DSI7	633332	3499.98	1	21.28	22.00	1.180	-	-	0.01	0.235	0.277
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 6	DSI7	633332	3499.98	1	21.28	22.00	1.180	-	-	0.12	0.497	0.587
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 6	DSI7	633332	3499.98	1	21.28	22.00	1.180	-	-	0.13	0.855	1.009
	FR1 n78	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 6	DSI7	633332	3499.98	1	21.28	22.00	1.180	-	-	0.1	0.206	0.243
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 6	DSI7	633332	3499.98	1	21.25	22.00	1.189	-	-	0.07	0.254	0.302
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 6	DSI7	633332	3499.98	1	21.25	22.00	1.189	-	-	0.03	0.512	0.609
43	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 6	DSI7	633332	3499.98	1	21.25	22.00	1.189	-	-	-0.09	0.922	1.096
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 6	DSI7	633332	3499.98	2	21.25	22.00	1.189	-	-	0.07	0.833	0.990
	FR1 n78	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 6	DSI7	633332	3499.98	1	21.25	22.00	1.189	-	-	0.12	0.247	0.294
	FR1 n78	100M	QPSK	270	0	DFT-30	Right Side	5mm	Ant 6	DSI7	633332	3499.98	1	21.18	22.00	1.208	-	-	-0.16	0.866	1.046
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 9	DSI7	633332	3499.98	1	16.00	17.00	1.259	-	-	-0.07	0.121	0.152
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	DSI7	633332	3499.98	1	16.00	17.00	1.259	-	-	0.04	0.426	0.536
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 9	DSI7	633332	3499.98	1	16.00	17.00	1.259	-	-	0.05	0.041	0.052
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 9	DSI7	633332	3499.98	1	16.00	17.00	1.259	-	-	0.06	0.156	0.196
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 9	DSI7	633332	3499.98	1	15.94	17.00	1.276	-	-	0.11	0.126	0.161
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	DSI7	633332	3499.98	1	15.94	17.00	1.276	-	-	-0.09	0.431	0.550
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 9	DSI7	633332	3499.98	1	15.94	17.00	1.276	-	-	-0.1	0.043	0.055
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 9	DSI7	633332	3499.98	1	15.94	17.00	1.276	-	-	0.07	0.173	0.221



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
<b>WLAN &amp; BT</b>																		
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 8	Hotspot	39	2441	1	12.25	14.00	1.496	77.03	1.298	0.06	0.053	0.102	
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 8	Hotspot	39	2441	1	12.25	14.00	1.496	77.03	1.298	-0.01	0.105	0.204	
44	Bluetooth	DH5 1Mbps	Right Side	5mm	Ant 8	Hotspot	39	2441	1	12.25	14.00	1.496	77.03	1.298	0.15	0.172	0.334	
	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 8	Hotspot	39	2441	1	12.25	14.00	1.496	77.03	1.298	-0.11	0.058	0.112	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8+7(7)	Hotspot	1	2412	1	15.61	17.00	1.377	100	1.000	0.04	0.287	0.395	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	Hotspot	1	2412	1	15.61	17.00	1.377	100	1.000	-0.06	0.572	0.788	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 8+7(7)	Hotspot	1	2412	1	15.61	17.00	1.377	100	1.000	0.08	0.154	0.212	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 8+7(7)	Hotspot	1	2412	1	15.61	17.00	1.377	100	1.000	-0.02	0.622	0.857	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 8+7(7)	Hotspot	6	2437	1	15.42	17.00	1.439	100	1.000	-0.01	0.569	0.819	
45	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 8+7(7)	Hotspot	11	2462	1	15.46	17.00	1.426	100	1.000	-0.08	0.641	0.914	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8+7(8)	Hotspot	42	5210	1	11.81	13.50	1.476	100	1.000	-0.12	0.162	0.239	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(8)	Hotspot	42	5210	1	11.81	13.50	1.476	100	1.000	0.14	0.251	0.370	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 8+7(8)	Hotspot	42	5210	1	11.81	13.50	1.476	100	1.000	0.12	0.159	0.235	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8+7(8)	Hotspot	42	5210	1	11.81	13.50	1.476	100	1.000	0.09	0.400	0.590	
46	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8+7(8)	Hotspot	42	5210	2	11.81	13.50	1.476	100	1.000	0.02	0.413	0.609	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8+7(8)	Hotspot	155	5775	1	11.37	12.50	1.297	100	1.000	-0.05	0.227	0.294	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(8)	Hotspot	155	5775	1	11.37	12.50	1.297	100	1.000	-0.13	0.243	0.315	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 8+7(8)	Hotspot	155	5775	1	11.37	12.50	1.297	100	1.000	-0.16	0.197	0.256	
47	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 8+7(8)	Hotspot	155	5775	1	11.37	12.50	1.297	100	1.000	-0.11	0.448	0.581	





16.3 Body Worn Accessory SAR

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Antenna, Headset, Power State, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Reported 1g SAR (W/kg). Rows are grouped by frequency bands: 750Mhz, 835Mhz, and 1750Mhz.



# FCC SAR Test Report

Report No. : FA441212

	WCDMA IV					RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI3	1312	1712.4	1	21.58	22.70	1.294	-	-	-0.02	0.790	1.022
54	WCDMA IV					RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI3	1513	1752.6	1	21.42	22.70	1.343	-	-	-0.15	0.822	1.104
	WCDMA IV					RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI3	1312	1712.4	1	21.58	22.70	1.294	-	-	-0.06	0.754	0.976
	WCDMA IV					RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI3	1513	1752.6	1	21.42	22.70	1.343	-	-	0.05	0.786	1.055
	WCDMA IV					RMC 12.2Kbps	Front	14mm	Ant 2	-	DSI4	1513	1752.6	1	22.76	24.00	1.330	-	-	-0.04	0.375	0.499
	WCDMA IV					RMC 12.2Kbps	Back	19mm	Ant 2	-	DSI4	1513	1752.6	1	22.76	24.00	1.330	-	-	-0.02	0.284	0.378
	WCDMA IV					RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI3	1413	1732.6	1	15.02	16.70	1.472	-	-	-0.15	0.178	0.262
	WCDMA IV					RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	1413	1732.6	1	15.02	16.70	1.472	-	-	-0.06	0.511	0.752
	WCDMA IV					RMC 12.2Kbps	Front	14mm	Ant 1	-	DSI4	1413	1732.6	1	22.38	24.00	1.452	-	-	0.14	0.287	0.417
	WCDMA IV					RMC 12.2Kbps	Back	19mm	Ant 1	-	DSI4	1413	1732.6	1	22.38	24.00	1.452	-	-	0.01	0.455	0.661
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	132322	1745	1	21.30	22.70	1.380	-	-	-0.15	0.721	0.995
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	132322	1745	1	21.30	22.70	1.380	-	-	-0.09	0.684	0.944
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	132072	1720	1	21.25	22.70	1.396	-	-	-0.05	0.731	1.021
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	132072	1720	1	21.25	22.70	1.396	-	-	0.06	0.721	1.007
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	132572	1770	1	21.22	22.70	1.406	-	-	-0.01	0.634	0.891
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	132072	1720	1	21.25	22.70	1.396	-	-	0.12	0.652	0.910
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	132572	1770	1	21.22	22.70	1.406	-	-	0.01	0.602	0.846
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	DSI4	132072	1720	1	22.54	24.00	1.400	-	-	0.02	0.335	0.469
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 2	-	DSI4	132322	1745	1	22.58	24.00	1.387	-	-	0.15	0.227	0.315
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	132322	1745	1	21.25	22.70	1.396	-	-	-0.15	0.691	0.965
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	132322	1745	1	21.25	22.70	1.396	-	-	0	0.652	0.910
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	132072	1720	1	21.21	22.70	1.409	-	-	0.1	0.711	1.002
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	132572	1770	1	21.20	22.70	1.413	-	-	-0.06	0.623	0.880
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	132072	1720	1	21.21	22.70	1.409	-	-	0.11	0.642	0.905
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	132572	1770	1	21.20	22.70	1.413	-	-	-0.09	0.589	0.832
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI3	132322	1745	1	21.17	22.70	1.422	-	-	0.12	0.702	0.998
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI3	132322	1745	1	21.17	22.70	1.422	-	-	-0.14	0.662	0.942
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	132322	1745	1	15.66	16.70	1.271	-	-	0.07	0.276	0.351
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	132322	1745	1	15.66	16.70	1.271	-	-	-0.11	0.566	0.719
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	132322	1745	1	15.66	16.70	1.271	-	-	0.03	0.542	0.689
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI4	132322	1745	1	22.41	24.00	1.442	-	-	-0.03	0.341	0.492
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI4	132322	1745	1	22.41	24.00	1.442	-	-	0.03	0.462	0.666
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI3	132322	1745	1	15.58	16.70	1.294	-	-	0.11	0.267	0.346
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	132322	1745	1	15.58	16.70	1.294	-	-	-0.06	0.535	0.692
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	20.98	22.60	1.452	-	-	-0.08	0.655	0.951
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	20.98	22.60	1.452	-	-	-0.05	0.786	1.141
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132072	1720	1	20.94	22.60	1.466	-	-	0.1	0.641	0.939
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132572	1770	1	20.90	22.60	1.479	-	-	0.11	0.626	0.926
55	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132072	1720	1	20.94	22.60	1.466	-	-	0.06	0.797	1.168
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132572	1770	1	20.90	22.60	1.479	-	-	-0.07	0.774	1.145
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI4	132322	1745	1	22.61	24.00	1.377	-	-	0.01	0.331	0.456
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 0	-	DSI4	132072	1720	1	22.58	24.00	1.387	-	-	0.1	0.206	0.286
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	20.96	22.60	1.459	-	-	0.02	0.631	0.921
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	20.96	22.60	1.459	-	-	-0.13	0.775	1.131
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132072	1720	1	20.89	22.60	1.483	-	-	-0.05	0.623	0.924
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132572	1770	1	20.85	22.60	1.496	-	-	0.13	0.606	0.907
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132072	1720	1	20.89	22.60	1.483	-	-	0.09	0.747	1.107
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132572	1770	1	20.85	22.60	1.496	-	-	0.07	0.748	1.119
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	20.92	22.60	1.472	-	-	0.03	0.630	0.928
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	20.92	22.60	1.472	-	-	0.09	0.773	1.138
56	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	349000	1745	1	22.85	24.00	1.303	-	-	-0.14	0.969	1.263
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	349000	1745	2	22.85	24.00	1.303	-	-	0.06	0.833	1.086
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	349000	1745	1	22.28	24.00	1.486	-	-	0.01	0.836	1.242
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI3	349000	1745	1	22.85	24.00	1.303	-	-	0.1	0.873	1.138
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	Headset	DSI3	349000	1745	1	22.85	24.00	1.303	-	-	0.08	0.549	0.715



	FR1 n66	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 2	-	DSI4	349000	1745	1	22.85	24.00	1.303	-	-	0.07	0.191	0.249
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	19mm	Ant 2	-	DSI4	349000	1745	1	22.85	24.00	1.303	-	-	0.12	0.154	0.201
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 2	-	DSI3	349000	1745	1	22.82	24.00	1.312	-	-	0.1	0.903	1.185
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	-	DSI3	349000	1745	1	22.82	24.00	1.312	-	-	0.06	0.825	1.083
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 2	-	DSI3	349000	1745	1	22.70	23.00	1.072	-	-	-0.07	0.896	0.960
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 2	-	DSI3	349000	1745	1	22.70	23.00	1.072	-	-	0.02	0.818	0.877
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI3	349000	1745	1	15.85	17.00	1.303	-	-	0.03	0.240	0.313
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI3	349000	1745	1	15.85	17.00	1.303	-	-	0.07	0.567	0.739
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI3	349000	1745	1	15.83	17.00	1.309	-	-	0.05	0.271	0.355
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI3	349000	1745	1	15.83	17.00	1.309	-	-	0.05	0.643	0.842
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI3	349000	1745	1	15.83	17.00	1.309	-	-	-0.02	0.633	0.829
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	14mm	Ant 1	-	DSI4	349000	1745	1	22.75	24.00	1.334	-	-	0.05	0.368	0.491
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	19mm	Ant 1	-	DSI4	349000	1745	1	22.75	24.00	1.334	-	-	0.05	0.377	0.503
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	-	DSI3	349000	1745	1	15.73	17.00	1.340	-	-	-0.01	0.595	0.797
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	349000	1745	1	19.55	21.00	1.396	-	-	-0.03	0.557	0.778
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	349000	1745	1	19.55	21.00	1.396	-	-	0.14	0.760	1.061
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	-	DSI4	349000	1745	1	22.53	24.00	1.403	-	-	0.06	0.272	0.382
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	19mm	Ant 0	-	DSI4	349000	1745	1	22.53	24.00	1.403	-	-	0.01	0.246	0.345
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3	349000	1745	1	19.52	21.00	1.406	-	-	0.02	0.529	0.744
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	349000	1745	1	19.52	21.00	1.406	-	-	0.08	0.736	1.035
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3	349000	1745	1	19.41	21.00	1.442	-	-	0.08	0.720	1.038
<b>1900Mhz</b>																						
57	GSM1900	-	-	-	-	GPRS(3 Tx slots)	Front	5mm	Ant 2	-	DSI3	661	1880	1	25.76	25.80	1.009	-	-	0.07	0.749	<b>0.756</b>
	GSM1900	-	-	-	-	GPRS(3 Tx slots)	Back	5mm	Ant 2	-	DSI3	661	1880	1	25.76	25.80	1.009	-	-	0.12	0.620	0.626
58	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI3	9400	1880	1	21.68	22.70	1.265	-	-	0.09	0.812	<b>1.027</b>
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI3	9400	1880	1	21.68	22.70	1.265	-	-	0.09	0.649	0.821
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI3	9262	1852.4	1	21.62	22.70	1.282	-	-	0.03	0.661	0.848
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI3	9538	1907.6	1	21.66	22.70	1.271	-	-	-0.15	0.775	0.985
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI3	9262	1852.4	1	21.62	22.70	1.282	-	-	0.12	0.615	0.789
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI3	9538	1907.6	1	21.66	22.70	1.271	-	-	0.05	0.625	0.794
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 2	-	DSI4	9400	1880	1	23.12	24.00	1.225	-	-	-0.1	0.323	0.396
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 2	-	DSI4	9400	1880	1	23.12	24.00	1.225	-	-	-0.05	0.222	0.272
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI3	9400	1880	1	17.32	19.20	1.542	-	-	-0.1	0.189	0.291
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	9400	1880	1	17.32	19.20	1.542	-	-	0.12	0.537	0.828
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	9262	1852.4	1	17.28	19.20	1.556	-	-	0.04	0.486	0.756
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	9538	1907.6	1	17.25	19.20	1.567	-	-	0.04	0.509	0.797
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 1	-	DSI4	9400	1880	1	22.36	24.00	1.459	-	-	-0.05	0.216	0.315
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 1	-	DSI4	9400	1880	1	22.36	24.00	1.459	-	-	0.01	0.226	0.330
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	26340	1880	1	21.70	23.20	1.413	-	-	0.14	0.857	1.211
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	26340	1880	1	21.70	23.20	1.413	-	-	-0.12	0.735	1.038
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	26140	1860	1	21.63	23.20	1.435	-	-	0.02	0.765	1.098
59	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	26590	1905	1	21.65	23.20	1.429	-	-	0.14	0.871	<b>1.245</b>
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	26140	1860	1	21.63	23.20	1.435	-	-	-0.11	0.636	0.913
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	26590	1905	1	21.65	23.20	1.429	-	-	-0.04	0.724	1.035
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	Headset	DSI3	26590	1905	1	21.65	23.20	1.429	-	-	0.09	0.537	0.767
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	DSI4	26590	1905	1	22.75	24.00	1.334	-	-	0.08	0.287	0.383
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 2	-	DSI4	26340	1880	1	22.90	24.00	1.288	-	-	0.06	0.201	0.259
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	26340	1880	1	21.66	23.00	1.361	-	-	0.14	0.796	1.084
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	26340	1880	1	21.66	23.00	1.361	-	-	0.12	0.705	0.960
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	26140	1860	1	21.62	23.00	1.374	-	-	0	0.762	1.047
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	26590	1905	1	21.60	23.00	1.380	-	-	-0.03	0.871	1.202
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	26140	1860	1	21.62	23.00	1.374	-	-	-0.04	0.626	0.860
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	26590	1905	1	21.60	23.00	1.380	-	-	0.02	0.711	0.981
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI3	26340	1880	1	21.65	23.00	1.365	-	-	0.14	0.817	1.115
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI3	26340	1880	1	21.65	23.00	1.365	-	-	0.13	0.712	0.972
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	26340	1880	1	15.95	17.20	1.334	-	-	-0.15	0.231	0.308



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	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	1	15.95	17.20	1.334	-	-	0.02	0.561	0.748
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI4	26340	1880	1	22.36	24.00	1.459	-	-	0.09	0.337	0.492
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI4	26340	1880	1	22.36	24.00	1.459	-	-	-0.08	0.375	0.547
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI3	26340	1880	1	15.89	17.20	1.352	-	-	0.06	0.219	0.296
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	1	15.89	17.20	1.352	-	-	0.02	0.536	0.725
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	1	15.88	17.20	1.355	-	-	-0.06	0.510	0.691
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	21.85	23.10	1.334	-	-	-0.01	0.723	0.964
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	21.85	23.10	1.334	-	-	-0.01	0.755	1.007
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26140	1860	1	21.78	23.10	1.355	-	-	-0.02	0.731	0.991
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26590	1905	1	21.82	23.10	1.343	-	-	-0.11	0.694	0.932
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26140	1860	1	21.78	23.10	1.355	-	-	0.06	0.791	1.072
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26590	1905	1	21.82	23.10	1.343	-	-	0.04	0.779	1.046
	LTE Band 25	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI4	26340	1880	1	23.07	24.00	1.239	-	-	0.05	0.307	0.380
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 0	-	DSI4	26140	1860	1	22.96	24.00	1.271	-	-	0.07	0.170	0.216
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	21.82	23.00	1.312	-	-	-0.06	0.694	0.911
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	21.82	23.00	1.312	-	-	-0.07	0.714	0.937
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	26140	1860	1	21.74	23.00	1.337	-	-	0.11	0.716	0.957
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	26590	1905	1	21.73	23.00	1.340	-	-	0.01	0.673	0.902
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26140	1860	1	21.74	23.00	1.337	-	-	-0.1	0.762	1.018
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26590	1905	1	21.73	23.00	1.340	-	-	0.13	0.756	1.013
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	21.77	23.00	1.327	-	-	-0.04	0.702	0.932
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	21.77	23.00	1.327	-	-	-0.01	0.722	0.958
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	376000	1880	1	22.81	24.00	1.315	-	-	-0.02	0.756	0.994
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI3	376000	1880	1	22.81	24.00	1.315	-	-	-0.12	0.789	1.038
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	372000	1860	1	22.76	24.00	1.330	-	-	0.09	0.775	1.031
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	380000	1900	1	22.78	24.00	1.324	-	-	-0.13	0.738	0.977
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI3	372000	1860	1	22.76	24.00	1.330	-	-	-0.03	0.837	1.114
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI3	380000	1900	1	22.78	24.00	1.324	-	-	-0.13	0.772	1.022
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 2	-	DSI3	376000	1880	1	22.72	24.00	1.343	-	-	0.12	0.785	1.054
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 2	-	DSI3	376000	1880	1	22.72	24.00	1.343	-	-	0.08	0.816	1.096
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 2	-	DSI3	372000	1860	1	22.66	24.00	1.361	-	-	-0.07	0.809	1.101
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 2	-	DSI3	380000	1900	1	22.68	24.00	1.355	-	-	0.14	0.752	1.019
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 2	-	DSI3	372000	1860	1	22.66	24.00	1.361	-	-	0.03	0.857	1.167
	FR1 n2 Other PA	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 2	-	DSI3	372000	1860	1	22.66	24.00	1.361	-	-	-0.03	0.833	1.134
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 2	-	DSI3	380000	1900	1	22.68	24.00	1.355	-	-	0.12	0.793	1.075
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	14mm	Ant 2	-	DSI4	372000	1860	1	22.66	24.00	1.361	-	-	-0.12	0.262	0.357
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	19mm	Ant 2	-	DSI4	372000	1860	1	22.66	24.00	1.361	-	-	0.14	0.187	0.255
	FR1 n2	20M	QPSK	100	0	DFT-15	Front	5mm	Ant 2	-	DSI3	376000	1880	1	22.70	24.00	1.349	-	-	0.14	0.755	1.018
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 2	-	DSI3	376000	1880	1	22.70	24.00	1.349	-	-	0.07	0.796	1.074
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI3	376000	1880	1	15.58	17.00	1.387	-	-	0.1	0.211	0.293
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI3	376000	1880	1	15.58	17.00	1.387	-	-	0.05	0.542	0.752
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	-	DSI3	376000	1880	1	15.57	17.00	1.390	-	-	0.05	0.229	0.318
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI3	376000	1880	1	15.57	17.00	1.390	-	-	0.12	0.581	0.808
	FR1 n2 Other PA	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI3	376000	1880	1	15.57	17.00	1.390	-	-	-0.04	0.557	0.774
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI3	372000	1860	1	15.50	17.00	1.413	-	-	-0.14	0.512	0.723
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI3	380000	1900	1	15.48	17.00	1.419	-	-	-0.1	0.509	0.722
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	14mm	Ant 1	-	DSI4	376000	1880	1	22.41	24.00	1.442	-	-	0.02	0.266	0.384
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	19mm	Ant 1	-	DSI4	376000	1880	1	22.41	24.00	1.442	-	-	0.01	0.304	0.438
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	-	DSI3	376000	1880	1	15.46	17.00	1.426	-	-	-0.02	0.533	0.760
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	376000	1880	1	20.28	22.00	1.486	-	-	0.08	0.716	1.064
60	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	376000	1880	1	20.28	22.00	1.486	-	-	-0.05	0.828	1.230
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	372000	1860	1	20.24	22.00	1.500	-	-	-0.15	0.744	1.116
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	380000	1900	1	20.22	22.00	1.507	-	-	0.12	0.685	1.032
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	372000	1860	1	20.24	22.00	1.500	-	-	-0.1	0.810	1.215
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	380000	1900	1	20.22	22.00	1.507	-	-	0.09	0.786	1.184
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Headset	DSI3	376000	1880	1	20.28	22.00	1.486	-	-	0.06	0.801	1.190



	FR1 n2	20M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	-	DS14	376000	1880	1	22.25	24.00	1.496	-	-	0.07	0.227	0.340
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	19mm	Ant 0	-	DS14	372000	1860	1	22.19	24.00	1.517	-	-	0.02	0.146	0.221
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DS13	376000	1880	1	20.25	22.00	1.496	-	-	0.13	0.680	1.017
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DS13	376000	1880	1	20.25	22.00	1.496	-	-	-0.14	0.791	1.184
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DS13	372000	1860	1	20.23	22.00	1.503	-	-	-0.08	0.731	1.099
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DS13	380000	1900	1	20.20	22.00	1.514	-	-	-0.09	0.673	1.019
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DS13	372000	1860	1	20.23	22.00	1.503	-	-	-0.08	0.784	1.178
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DS13	380000	1900	1	20.20	22.00	1.514	-	-	-0.04	0.767	1.161
	FR1 n2	20M	QPSK	100	0	DFT-15	Front	5mm	Ant 0	-	DS13	376000	1880	1	20.21	22.00	1.510	-	-	-0.08	0.650	0.982
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	-	DS13	376000	1880	1	20.21	22.00	1.510	-	-	0.1	0.745	1.125

600Mhz

	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	21100	2535	1	21.25	22.40	1.303	-	-	-0.06	0.748	0.975
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DS13	21100	2535	1	21.25	22.40	1.303	-	-	0.04	0.806	1.050
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	20850	2510	1	21.22	22.40	1.312	-	-	0.06	0.756	0.992
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	21350	2560	1	21.20	22.40	1.318	-	-	0.13	0.688	0.907
61	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DS13	20850	2510	1	21.22	22.40	1.312	-	-	0.03	0.821	1.077
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DS13	20850+ 21048	2510+ 2529.8	1	21.10	22.40	1.349	-	-	0.14	0.729	0.983
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DS13	21350	2560	1	21.20	22.40	1.318	-	-	0.13	0.772	1.018
	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	DS14	20850	2510	1	23.33	24.00	1.167	-	-	0.18	0.290	0.338
	LTE Band 7	20M	QPSK	1	0	-	Back	19mm	Ant 2	-	DS14	20850	2510	1	23.33	24.00	1.167	-	-	-0.01	0.253	0.295
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DS13	21100	2535	1	21.23	22.40	1.309	-	-	0.15	0.736	0.964
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DS13	21100	2535	1	21.23	22.40	1.309	-	-	0.01	0.786	1.029
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DS13	20850	2510	1	21.19	22.40	1.321	-	-	-0.05	0.742	0.980
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DS13	21350	2560	1	21.18	22.40	1.324	-	-	-0.18	0.646	0.856
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DS13	20850	2510	1	21.19	22.40	1.321	-	-	-0.1	0.807	1.066
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DS13	21350	2560	1	21.18	22.40	1.324	-	-	0.01	0.766	1.014
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DS13	21100	2535	1	21.20	22.40	1.318	-	-	0.03	0.725	0.956
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DS13	21100	2535	1	21.20	22.40	1.318	-	-	-0.09	0.766	1.010
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DS13	21100	2535	1	16.60	17.70	1.288	-	-	-0.17	0.306	0.394
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DS13	21100	2535	1	16.60	17.70	1.288	-	-	0.06	0.626	0.806
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DS13	20850	2510	1	16.57	17.70	1.297	-	-	-0.16	0.655	0.850
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DS13	20850+ 21048	2510+ 2529.8	1	16.43	17.70	1.340	-	-	0.12	0.621	0.832
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DS13	21350	2560	1	16.52	17.70	1.312	-	-	0.06	0.533	0.699
	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DS14	21100	2535	1	23.14	24.00	1.219	-	-	-0.05	0.160	0.195
	LTE Band 7	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DS14	20850	2510	1	22.97	24.00	1.268	-	-	0.06	0.164	0.208
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DS13	21100	2535	1	16.55	17.70	1.303	-	-	-0.03	0.240	0.313
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DS13	21100	2535	1	16.55	17.70	1.303	-	-	0.04	0.607	0.791
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DS13	21100	2535	1	16.53	17.70	1.309	-	-	-0.04	0.588	0.770
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DS13	21100	2535	1	18.50	20.20	1.479	-	-	-0.15	0.537	0.794
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DS13	21100	2535	1	18.50	20.20	1.479	-	-	0.06	0.707	1.046
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DS13	21100+ 20902	2535+ 2515.2	1	18.43	20.20	1.503	-	-	0.04	0.668	1.004
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DS13	20850	2510	1	18.43	20.20	1.503	-	-	-0.16	0.661	0.994
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DS13	21350	2560	1	18.40	20.20	1.514	-	-	-0.03	0.643	0.973
	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DS14	21100	2535	1	22.41	24.00	1.442	-	-	-0.04	0.272	0.392
	LTE Band 7	20M	QPSK	1	0	-	Back	19mm	Ant 0	-	DS14	21100	2535	1	22.41	24.00	1.442	-	-	0.14	0.223	0.322
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DS13	21100	2535	1	18.45	20.20	1.496	-	-	-0.09	0.505	0.756
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DS13	21100	2535	1	18.45	20.20	1.496	-	-	-0.1	0.656	0.982
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DS13	20850	2510	1	18.42	20.20	1.507	-	-	-0.13	0.642	0.967
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DS13	21350	2560	1	18.39	20.20	1.517	-	-	0.01	0.637	0.966
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DS13	21100	2535	1	18.40	20.20	1.514	-	-	0.07	0.626	0.947
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	40620	2593	1	23.70	24.00	1.072	62.9	1.006	0.02	0.626	0.675
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DS13	40620	2593	1	23.70	24.00	1.072	62.9	1.006	0.06	0.805	0.868
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	39750	2506	1	23.48	24.00	1.127	62.9	1.006	0.11	0.661	0.750
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	40185	2549.5	1	23.53	24.00	1.114	62.9	1.006	-0.02	0.543	0.609
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DS13	41055	2636.5	1	23.61	24.00	1.094	62.9	1.006	-0.05	0.551	0.606



**FCC SAR Test Report**

**Report No. : FA441212**

	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI3	41490	2680	1	23.35	24.00	1.161	62.9	1.006	-0.07	0.506	0.591
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	39750	2506	1	23.48	24.00	1.127	62.9	1.006	-0.01	0.890	1.009
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	39750+ 39948	2506+ 2525.8	1	23.30	24.00	1.175	62.9	1.006	-0.12	0.811	0.959
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	40185	2549.5	1	23.53	24.00	1.114	62.9	1.006	-0.04	0.733	0.822
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	41055	2636.5	1	23.61	24.00	1.094	62.9	1.006	0.12	0.726	0.799
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI3	41490	2680	1	23.35	24.00	1.161	62.9	1.006	-0.12	0.646	0.755
	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	DSI4	39750	2506	1	23.48	24.00	1.127	62.9	1.006	-0.15	0.216	0.245
	LTE Band 41	20M	QPSK	1	0	-	Back	19mm	Ant 2	-	DSI4	39750	2506	1	23.48	24.00	1.127	62.9	1.006	0.07	0.173	0.196
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	40620	2593	1	22.71	23.00	1.069	62.9	1.006	0.1	0.598	0.643
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	40620	2593	1	22.71	23.00	1.069	62.9	1.006	0.02	0.784	0.843
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	39750	2506	1	22.50	23.00	1.122	62.9	1.006	-0.04	0.626	0.707
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	40185	2549.5	1	22.65	23.00	1.084	62.9	1.006	-0.15	0.537	0.586
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	41055	2636.5	1	22.62	23.00	1.091	62.9	1.006	0.03	0.542	0.595
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI3	41490	2680	1	22.44	23.00	1.138	62.9	1.006	-0.14	0.499	0.571
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	39750	2506	1	22.50	23.00	1.122	62.9	1.006	0.07	0.867	0.979
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	40185	2549.5	1	22.65	23.00	1.084	62.9	1.006	0.12	0.726	0.792
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	41055	2636.5	1	22.62	23.00	1.091	62.9	1.006	0.17	0.711	0.781
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI3	41490	2680	1	22.44	23.00	1.138	62.9	1.006	0.11	0.637	0.729
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI3	40620	2593	1	22.69	23.00	1.074	62.9	1.006	0.02	0.576	0.622
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI3	40620	2593	1	22.69	23.00	1.074	62.9	1.006	0.06	0.712	0.769
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	40620	2593	1	20.40	21.30	1.230	62.9	1.006	-0.14	0.339	0.420
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	40620	2593	1	20.40	21.30	1.230	62.9	1.006	0.16	0.570	0.705
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	39750	2506	1	20.31	21.30	1.256	62.9	1.006	-0.02	0.664	0.839
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	40185	2549.5	1	20.29	21.30	1.262	62.9	1.006	-0.1	0.670	0.850
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	41055	2636.5	1	20.35	21.30	1.245	62.9	1.006	-0.07	0.634	0.794
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	41490	2680	1	20.33	21.30	1.250	62.9	1.006	0.15	0.685	0.862
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	41490+ 41292	2680+ 2660.2	1	20.25	21.30	1.274	62.9	1.006	-0.12	0.642	0.822
	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI4	40620	2593	1	23.35	24.00	1.161	62.9	1.006	0.09	0.095	0.111
	LTE Band 41	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI4	41490	2680	1	23.15	24.00	1.216	62.9	1.006	0.09	0.083	0.102
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI3	40620	2593	1	20.34	21.30	1.247	62.9	1.006	-0.05	0.327	0.410
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	40620	2593	1	20.34	21.30	1.247	62.9	1.006	0.08	0.557	0.699
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	39750	2506	1	20.29	21.30	1.262	62.9	1.006	0.08	0.651	0.826
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	40185	2549.5	1	20.25	21.30	1.274	62.9	1.006	0.15	0.662	0.848
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	41055	2636.5	1	20.30	21.30	1.259	62.9	1.006	-0.1	0.591	0.748
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	41490	2680	1	20.32	21.30	1.253	62.9	1.006	-0.06	0.646	0.814
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI3	40620	2593	1	20.30	21.30	1.259	62.9	1.006	0.16	0.533	0.675
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	40620	2593	1	22.45	23.50	1.274	62.9	1.006	0.1	0.645	0.826
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	40620	2593	1	22.45	23.50	1.274	62.9	1.006	0.18	0.816	1.045
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	39750	2506	1	22.40	23.50	1.288	62.9	1.006	0	0.641	0.831
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	40185	2549.5	1	22.35	23.50	1.303	62.9	1.006	-0.18	0.637	0.835
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	41055	2636.5	1	22.38	23.50	1.294	62.9	1.006	-0.15	0.619	0.806
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	41490	2680	1	22.33	23.50	1.309	62.9	1.006	0.09	0.711	0.936
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	39750	2506	1	22.40	23.50	1.288	62.9	1.006	0.09	0.845	1.095
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	40185	2549.5	1	22.35	23.50	1.303	62.9	1.006	-0.05	0.861	1.129
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	41055	2636.5	1	22.38	23.50	1.294	62.9	1.006	0.11	0.801	1.043
62	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	41490	2680	1	22.33	23.50	1.309	62.9	1.006	-0.09	0.937	1.234
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	41490+ 41292	2680+ 2660.2	1	22.22	23.50	1.343	62.9	1.006	-0.04	0.871	1.177
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3	41490	2680	1	22.33	23.50	1.309	62.9	1.006	0.05	0.856	1.127
	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	DSI4	41490	2680	1	23.00	24.00	1.259	62.9	1.006	-0.09	0.147	0.186
	LTE Band 41	20M	QPSK	1	0	-	Back	19mm	Ant 0	-	DSI4	41490	2680	1	23.00	24.00	1.259	62.9	1.006	-0.01	0.122	0.155
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	40620	2593	1	22.21	23.00	1.199	62.9	1.006	0.05	0.616	0.743
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	40620	2593	1	22.21	23.00	1.199	62.9	1.006	0.09	0.796	0.961
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	39750	2506	1	21.85	23.00	1.303	62.9	1.006	-0.15	0.634	0.831
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	40185	2549.5	1	22.08	23.00	1.236	62.9	1.006	0.18	0.625	0.777
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	41055	2636.5	1	22.17	23.00	1.211	62.9	1.006	0.11	0.606	0.738



	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	41490	2680	1	22.06	23.00	1.242	62.9	1.006	0.05	0.701	0.876	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	39750	2506	1	21.85	23.00	1.303	62.9	1.006	-0.15	0.837	1.097	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	40185	2549.5	1	22.08	23.00	1.236	62.9	1.006	0	0.796	0.990	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	41055	2636.5	1	22.17	23.00	1.211	62.9	1.006	0.17	0.782	0.952	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	41490	2680	1	22.06	23.00	1.242	62.9	1.006	0.04	0.911	1.138	
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI3	40620	2593	1	22.15	23.00	1.216	62.9	1.006	-0.03	0.607	0.743	
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	40620	2593	1	22.15	23.00	1.216	62.9	1.006	-0.09	0.776	0.949	
63	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI3	507000	2535	1	22.35	23.00	1.161	-	-	-0.11	0.641	0.744	
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI3	507000	2535	1	22.35	23.00	1.161	-	-	0.06	0.959	1.114	
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 2	-	DSI4	507000	2535	1	23.38	24.00	1.153	-	-	-0.14	0.224	0.258	
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	19mm	Ant 2	-	DSI4	507000	2535	1	23.38	24.00	1.153	-	-	0.12	0.169	0.195	
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 2	-	DSI3	507000	2535	1	22.32	23.00	1.169	-	-	0.08	0.634	0.741	
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	-	DSI3	507000	2535	1	22.32	23.00	1.169	-	-	0.09	0.898	1.050	
	FR1 n7	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 2	-	DSI3	507000	2535	1	22.29	23.00	1.178	-	-	-0.14	0.625	0.736	
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 2	-	DSI3	507000	2535	1	22.29	23.00	1.178	-	-	-0.04	0.871	1.026	
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI3	507000	2535	1	17.80	18.50	1.175	-	-	-0.18	0.234	0.275	
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI3	507000	2535	1	17.80	18.50	1.175	-	-	0.15	0.696	0.818	
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 1	-	DSI4	507000	2535	1	23.26	24.00	1.186	-	-	-0.16	0.162	0.192	
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	19mm	Ant 1	-	DSI4	507000	2535	1	23.26	24.00	1.186	-	-	0.02	0.152	0.180	
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI3	507000	2535	1	17.76	18.50	1.186	-	-	-0.1	0.228	0.270	
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI3	507000	2535	1	17.76	18.50	1.186	-	-	-0.04	0.642	0.761	
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	-	DSI3	507000	2535	1	17.65	18.50	1.216	-	-	-0.08	0.655	0.797	
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	507000	2535	1	19.08	20.50	1.387	-	-	-0.18	0.641	0.889	
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	1	19.08	20.50	1.387	-	-	-0.17	0.782	1.084	
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	14mm	Ant 0	-	DSI4	507000	2535	1	22.55	24.00	1.396	-	-	-0.12	0.268	0.374	
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	19mm	Ant 0	-	DSI4	507000	2535	1	22.55	24.00	1.396	-	-	-0.02	0.227	0.317	
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3	507000	2535	1	19.03	20.50	1.403	-	-	0.02	0.609	0.854	
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	1	19.03	20.50	1.403	-	-	0.08	0.750	1.052	
	FR1 n7	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0	-	DSI3	507000	2535	1	19.00	20.50	1.413	-	-	-0.11	0.617	0.872	
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	1	19.00	20.50	1.413	-	-	-0.04	0.752	1.062	
64	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	-	DSI3	518598	2592.99	1	21.76	22.50	1.186	-	-	0.08	0.811	0.962	
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	-	DSI3	518598	2592.99	1	21.76	22.50	1.186	-	-	-0.02	0.956	1.134	
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	-	DSI3	518598	2592.99	1	21.74	22.50	1.191	-	-	0.07	0.837	0.997	
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	-	DSI3	518598	2592.99	1	21.74	22.50	1.191	-	-	0.01	0.967	1.152	
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	14mm	Ant 2	-	DSI4	518598	2592.99	1	23.05	24.00	1.245	-	-	0.12	0.215	0.268	
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	19mm	Ant 2	-	DSI4	518598	2592.99	1	23.05	24.00	1.245	-	-	-0.17	0.190	0.236	
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 2	-	DSI3	518598	2592.99	1	21.73	22.50	1.194	-	-	-0.11	0.786	0.938	
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	-	DSI3	518598	2592.99	1	21.73	22.50	1.194	-	-	0.03	0.930	1.110	
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	-	DSI3	518598	2592.99	1	18.82	19.50	1.169	-	-	-0.15	0.424	0.496	
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	-	DSI3	518598	2592.99	1	18.82	19.50	1.169	-	-	-0.15	0.711	0.832	
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 1	-	DSI4	518598	2592.99	1	23.30	24.00	1.175	-	-	-0.05	0.175	0.206	
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	19mm	Ant 1	-	DSI4	518598	2592.99	1	23.30	24.00	1.175	-	-	-0.11	0.130	0.153	
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	-	DSI3	518598	2592.99	1	18.79	19.50	1.178	-	-	-0.09	0.376	0.443	
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	-	DSI3	518598	2592.99	1	18.79	19.50	1.178	-	-	-0.03	0.686	0.808	
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 1	-	DSI3	518598	2592.99	1	18.80	19.50	1.175	-	-	0	0.630	0.740	
91	FR1 n38	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	-	DSI3	519000	2595	1	18.85	20.50	1.462	-	-	-0.09	0.562	0.822	
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	-	DSI3	519000	2595	1	18.85	20.50	1.462	-	-	-0.04	0.767	1.121	
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	14mm	Ant 0	-	DSI4	519000	2595	1	22.31	24.00	1.476	-	-	-0.05	0.231	0.341	
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	19mm	Ant 0	-	DSI4	519000	2595	1	22.31	24.00	1.476	-	-	-0.07	0.166	0.245	
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 0	-	DSI3	519000	2595	1	18.84	20.50	1.466	-	-	-0.05	0.541	0.793	
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 0	-	DSI3	519000	2595	1	18.84	20.50	1.466	-	-	0.08	0.713	1.045	
	FR1 n38	40M	QPSK	100	0	DFT-30	Front	5mm	Ant 0	-	DSI3	519000	2595	1	18.81	20.50	1.476	-	-	0.13	0.531	0.784	
FR1 n38	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 0	-	DSI3	519000	2595	1	18.81	20.50	1.476	-	-	-0.07	0.702	1.036		
3500Mhz																							
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	42590	3500	1	21.18	21.70	1.127	62.9	1.006	-0.02	0.411	0.466	
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	42590	3500	1	21.18	21.70	1.127	62.9	1.006	0.09	0.692	0.785	



FCC SAR Test Report

Report No. : FA441212

Table with columns for LTE Band, Modulation, Power, Frequency, Antenna, etc. Includes rows for LTE Band 42 and FR1 n78. A specific row for LTE Band 42 has a highlighted value of 0.847.





Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
<b>WLAN &amp; BT</b>																			
67	Bluetooth	DH5 1Mbps	Front	5mm	Ant 8	-	Standalone/Simultaneous	39	2441	1	12.25	14.00	1.496	77.03	1.298	0.06	0.053	0.102	
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 8	-	Standalone/Simultaneous	39	2441	1	12.25	14.00	1.496	77.03	1.298	-0.01	0.105	<b>0.204</b>	
	Bluetooth	DH5 1Mbps	Front	14mm	Ant 8	-	Full	39	2441	1	17.80	19.50	1.479	77.03	1.298	0.05	0.045	0.086	
	Bluetooth	DH5 1Mbps	Back	19mm	Ant 8	-	Full	39	2441	1	17.80	19.50	1.479	77.03	1.298	0.01	0.049	0.094	
68	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8+7(7)	-	Standalone	1	2412	1	17.71	19.00	1.346	100	1.000	0.08	0.466	0.627	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	-	Standalone	1	2412	1	17.71	19.00	1.346	100	1.000	-0.05	0.929	<b>1.250</b>	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	-	Standalone	1	2412	2	17.71	19.00	1.346	100	1.000	-0.05	0.912	1.227	
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 8+7(7)	-	Standalone	1	2412	1	17.57	19.00	1.390	100	1.000	0.01	0.836	1.162	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	-	Standalone	6	2437	1	17.41	19.00	1.442	100	1.000	0.03	0.826	1.191	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	-	Standalone	11	2462	1	17.51	19.00	1.409	100	1.000	-0.06	0.831	1.171	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	Headset	Standalone	1	2412	1	17.71	19.00	1.346	100	1.000	0.04	0.889	1.196	
	WLAN2.4GHz	802.11b 1Mbps	Front	14mm	Ant 8+7(7)	-	Full	1	2412	1	20.10	21.50	1.380	100	1.000	0.07	0.152	0.210	
	WLAN2.4GHz	802.11b 1Mbps	Back	19mm	Ant 8+7(7)	-	Full	1	2412	1	20.10	21.50	1.380	100	1.000	-0.06	0.201	0.277	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8+7(7)	-	Simultaneous	1	2412	1	15.61	17.00	1.377	100	1.000	0.02	0.271	0.373	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8+7(7)	-	Simultaneous	1	2412	1	15.61	17.00	1.377	100	1.000	-0.03	0.506	0.697	
	69	WLAN5.3GHz	802.11n-HT40 MCS0	Front	5mm	Ant 8+7(8)	-	Standalone	54	5270	1	15.59	17.00	1.384	100	1.000	0.05	0.460	0.636
WLAN5.3GHz		802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	-	Standalone	54	5270	1	15.59	17.00	1.384	100	1.000	0.08	0.776	1.074	
WLAN5.3GHz		802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	-	Standalone	54	5270	2	15.59	17.00	1.384	100	1.000	0.03	0.826	<b>1.143</b>	
WLAN5.3GHz		802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	-	Standalone	62	5310	1	14.56	16.50	1.563	100	1.000	-0.13	0.716	1.119	
WLAN5.3GHz		802.11n-HT40 MCS0	Front	14mm	Ant 8+7(8)	-	Full	54	5270	1	17.55	19.50	1.567	100	1.000	-0.17	0.118	0.185	
WLAN5.3GHz		802.11n-HT40 MCS0	Back	19mm	Ant 8+7(8)	-	Full	54	5270	1	17.55	19.50	1.567	100	1.000	-0.11	0.072	0.113	
WLAN5.3GHz		802.11ac-VHT160 MCS0	Front	5mm	Ant 8+7(8)	-	Simultaneous	50	5250	1	11.59	13.00	1.384	100	1.000	0.07	0.261	0.361	
WLAN5.3GHz		802.11ac-VHT160 MCS0	Back	5mm	Ant 8+7(8)	-	Simultaneous	50	5250	1	11.59	13.00	1.384	100	1.000	0.12	0.352	0.487	
WLAN5.5GHz		802.11ac-VHT80 MCS0	Front	5mm	Ant 8+7(7)	-	Standalone	138	5690	1	14.32	15.50	1.312	100	1.000	0.06	0.326	0.428	
WLAN5.5GHz		802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(7)	-	Standalone	138	5690	1	14.32	15.50	1.312	100	1.000	0.08	0.845	<b>1.109</b>	
70	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(7)	-	Standalone	106	5530	1	12.84	14.50	1.466	100	1.000	0.1	0.637	0.934	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(7)	-	Standalone	122	5610	1	13.87	15.50	1.455	100	1.000	0.13	0.756	1.100	
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	14mm	Ant 8+7(8)	-	Full	142	5710	1	17.52	19.50	1.578	100	1.000	0.12	0.187	0.295	
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	19mm	Ant 8+7(8)	-	Full	142	5710	1	17.52	19.50	1.578	100	1.000	-0.06	0.290	0.458	
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 8+7(7)	-	Simultaneous	114	5570	1	11.37	13.00	1.455	100	1.000	0.09	0.177	0.258	
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 8+7(7)	-	Simultaneous	114	5570	1	11.37	13.00	1.455	100	1.000	0.02	0.335	0.488	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8+7(8)	-	Standalone	155	5775	1	15.19	16.50	1.352	100	1.000	0.14	0.526	0.711	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(8)	-	Standalone	155	5775	1	15.19	16.50	1.352	100	1.000	0.07	0.804	<b>1.087</b>	
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	14mm	Ant 8+7(8)	-	Full	151	5755	1	17.65	19.50	1.531	100	1.000	-0.18	0.148	0.227	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	19mm	Ant 8+7(8)	-	Full	151	5755	1	17.65	19.50	1.531	100	1.000	0.05	0.203	0.311	
71	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 8+7(8)	-	Simultaneous	155	5775	1	11.94	13.00	1.276	100	1.000	0.06	0.247	0.315	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(8)	-	Simultaneous	155	5775	1	11.94	13.00	1.276	100	1.000	0.02	0.368	0.470	



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
<b>1750Mhz</b>																					
	WCDMA IV					RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1413	1732.6	1	22.99	24.00	1.262	-	-	-0.12	2.050	2.587
	WCDMA IV					RMC 12.2Kbps	Back	0mm	Ant 2	DSi6	1413	1732.6	1	22.99	24.00	1.262	-	-	-0.16	1.460	1.842
	WCDMA IV					RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSi6	1413	1732.6	1	22.99	24.00	1.262	-	-	0.05	1.730	2.183
	WCDMA IV					RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSi6	1312	1712.4	1	22.97	24.00	1.268	-	-	-0.01	1.670	2.117
	WCDMA IV					RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSi6	1513	1752.6	1	22.76	24.00	1.330	-	-	0.04	1.720	2.288
	WCDMA IV					RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1312	1712.4	1	22.97	24.00	1.268	-	-	-0.13	2.100	2.662
72	WCDMA IV					RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1513	1752.6	1	22.76	24.00	1.330	-	-	0.07	2.160	<b>2.874</b>
	WCDMA IV					RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1513	1752.6	2	22.76	24.00	1.330	-	-	0.02	1.990	2.648
	WCDMA IV					RMC 12.2Kbps	Front	3mm	Ant 2	DSi4	1513	1752.6	1	22.76	24.00	1.330	-	-	0.14	1.260	1.676
	WCDMA IV					RMC 12.2Kbps	Back	6mm	Ant 2	DSi4	1413	1732.6	1	22.99	24.00	1.262	-	-	-0.15	0.746	0.941
	WCDMA IV					RMC 12.2Kbps	Bottom Side	6mm	Ant 2	DSi4	1513	1752.6	1	22.76	24.00	1.330	-	-	-0.13	1.260	1.676
	WCDMA IV					RMC 12.2Kbps	Front	0mm	Ant 1	DSi6	1413	1732.6	1	19.05	20.70	1.462	-	-	-0.02	0.653	0.955
	WCDMA IV					RMC 12.2Kbps	Back	0mm	Ant 1	DSi6	1413	1732.6	1	19.05	20.70	1.462	-	-	-0.08	1.200	1.755
	WCDMA IV					RMC 12.2Kbps	Left Side	0mm	Ant 1	DSi6	1413	1732.6	1	19.05	20.70	1.462	-	-	0	0.781	1.142
	WCDMA IV					RMC 12.2Kbps	Top Side	0mm	Ant 1	DSi6	1413	1732.6	1	19.05	20.70	1.462	-	-	-0.11	1.490	2.179
	WCDMA IV					RMC 12.2Kbps	Top Side	0mm	Ant 1	DSi6	1312	1712.4	1	18.82	20.70	1.542	-	-	0.13	1.420	2.189
	WCDMA IV					RMC 12.2Kbps	Top Side	0mm	Ant 1	DSi6	1513	1752.6	1	19.02	20.70	1.472	-	-	0.16	1.580	2.326
	WCDMA IV					RMC 12.2Kbps	Front	3mm	Ant 1	DSi4	1413	1732.6	1	22.38	24.00	1.452	-	-	0.03	0.638	0.926
	WCDMA IV					RMC 12.2Kbps	Back	11mm	Ant 1	DSi4	1413	1732.6	1	22.38	24.00	1.452	-	-	-0.13	0.414	0.601
	WCDMA IV					RMC 12.2Kbps	Left Side	8mm	Ant 1	DSi4	1413	1732.6	1	22.38	24.00	1.452	-	-	0.04	0.390	0.566
	WCDMA IV					RMC 12.2Kbps	Top Side	6mm	Ant 1	DSi4	1513	1752.6	1	22.34	24.00	1.466	-	-	0.16	0.880	1.290
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSi6	132322	1745	1	22.58	24.00	1.387	-	-	0.03	1.840	2.552
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSi6	132322	1745	1	22.58	24.00	1.387	-	-	0.05	1.760	2.441
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSi6	132322	1745	1	22.58	24.00	1.387	-	-	0.07	1.260	1.747
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSi6	132322	1745	1	22.58	24.00	1.387	-	-	-0.15	1.760	2.441
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSi6	132072	1720	1	22.54	24.00	1.400	-	-	0.02	1.580	2.211
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSi6	132572	1770	1	22.52	24.00	1.406	-	-	0.05	1.460	2.053
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSi6	132072	1720	1	22.54	24.00	1.400	-	-	0.03	1.740	2.435
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSi6	132572	1770	1	22.52	24.00	1.406	-	-	-0.06	1.560	2.193
	LTE Band 66	20M	QPSK	1	0	-	Front	3mm	Ant 2	DSi4	132322	1745	1	22.58	24.00	1.387	-	-	0.1	1.070	1.484
	LTE Band 66	20M	QPSK	1	0	-	Back	6mm	Ant 2	DSi4	132322	1745	1	22.58	24.00	1.387	-	-	0.07	0.591	0.820
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	6mm	Ant 2	DSi4	132322	1745	1	22.58	24.00	1.387	-	-	0.12	0.780	1.082
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSi6	132322	1745	1	22.55	23.00	1.109	-	-	0.09	1.760	1.952
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSi6	132322	1745	1	22.55	23.00	1.109	-	-	0.05	1.180	1.309
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSi6	132322	1745	1	22.55	23.00	1.109	-	-	-0.08	1.640	1.819
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSi6	132072	1720	1	22.48	23.00	1.127	-	-	-0.03	1.510	1.702
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSi6	132572	1770	1	22.41	23.00	1.146	-	-	-0.15	1.410	1.615
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSi6	132072	1720	1	22.48	23.00	1.127	-	-	0.1	1.680	1.894
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSi6	132572	1770	1	22.41	23.00	1.146	-	-	0.17	1.510	1.730
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSi6	132322	1745	1	22.57	23.00	1.104	-	-	-0.05	1.750	1.932
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSi6	132322	1745	1	22.57	23.00	1.104	-	-	0.03	1.580	1.744
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSi6	132322	1745	1	19.28	20.70	1.387	-	-	0.08	1.050	1.456
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSi6	132322	1745	1	19.28	20.70	1.387	-	-	0.11	1.460	2.025
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSi6	132322	1745	1	19.28	20.70	1.387	-	-	0.12	0.989	1.372
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSi6	132322	1745	1	19.28	20.70	1.387	-	-	-0.04	1.190	1.650
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSi6	132072	1720	1	19.20	20.70	1.413	-	-	0.15	1.290	1.822
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSi6	132572	1770	1	19.22	20.70	1.406	-	-	-0.06	1.520	2.137
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSi6	132572	1770	1	19.22	20.70	1.406	-	-	0.01	1.410	1.983
	LTE Band 66	20M	QPSK	1	0	-	Front	3mm	Ant 1	DSi4	132322	1745	1	22.41	24.00	1.442	-	-	0.16	0.894	1.289
	LTE Band 66	20M	QPSK	1	0	-	Back	11mm	Ant 1	DSi4	132572	1770	1	22.38	24.00	1.452	-	-	0.1	0.572	0.831
	LTE Band 66	20M	QPSK	1	0	-	Left Side	8mm	Ant 1	DSi4	132322	1745	1	22.41	24.00	1.442	-	-	0.14	0.625	0.901



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Table with columns: LTE Band 66, 20M, QPSK, 1, 0, -, Top Side, 6mm, Ant 1, DSI4, 132322, 1745, 1, 22.41, 24.00, 1.442, -, -, 0.04, 0.922, 1.330. Includes rows 73 and 74.



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	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI6	349000	1745	1	22.47	24.00	1.422	-	-	0.1	1.570	2.233
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI6	349000	1745	1	22.47	24.00	1.422	-	-	0.12	1.540	2.190
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 0	DSI6	349000	1745	1	22.47	24.00	1.422	-	-	-0.02	1.260	1.792
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI6	349000	1745	1	22.47	24.00	1.422	-	-	-0.15	1.170	1.664
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 0	DSI6	349000	1745	1	21.59	23.00	1.384	-	-	0.05	1.460	2.020
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI6	349000	1745	1	21.59	23.00	1.384	-	-	0.08	1.400	1.937
<b>1900Mhz</b>																					
	WCDMA II					RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	9400	1880	1	23.12	24.00	1.225	-	-	0.08	2.080	2.547
	WCDMA II					RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI6	9400	1880	1	23.12	24.00	1.225	-	-	0.07	1.520	1.861
75	WCDMA II					RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	9262	1852.4	1	22.94	24.00	1.276	-	-	-0.03	2.130	2.719
	WCDMA II					RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	9538	1907.6	1	22.99	24.00	1.262	-	-	0.09	2.020	2.549
	WCDMA II					RMC 12.2Kbps	Front	3mm	Ant 2	DSI4	9262	1852.4	1	22.94	24.00	1.276	-	-	-0.03	1.380	1.761
	WCDMA II					RMC 12.2Kbps	Bottom Side	6mm	Ant 2	DSI4	9400	1880	1	23.12	24.00	1.225	-	-	0.13	0.605	0.741
	WCDMA II					RMC 12.2Kbps	Back	0mm	Ant 1	DSI6	9400	1880	1	19.28	21.20	1.556	-	-	0.03	0.867	1.349
	WCDMA II					RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI6	9400	1880	1	19.28	21.20	1.556	-	-	0.04	1.400	2.178
	WCDMA II					RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI6	9262	1852.4	1	19.22	21.20	1.578	-	-	0.12	1.300	2.051
	WCDMA II					RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI6	9538	1907.6	1	19.24	21.20	1.570	-	-	0.03	1.320	2.073
	WCDMA II					RMC 12.2Kbps	Back	11mm	Ant 1	DSI4	9400	1880	1	22.36	24.00	1.459	-	-	0	0.226	0.330
	WCDMA II					RMC 12.2Kbps	Top Side	6mm	Ant 1	DSI4	9400	1880	1	22.36	24.00	1.459	-	-	-0.13	0.729	1.063
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI6	26340	1880	1	22.90	24.00	1.288	-	-	0.16	1.940	2.499
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI6	26340	1880	1	22.90	24.00	1.288	-	-	0.07	1.130	1.456
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	26340	1880	1	22.90	24.00	1.288	-	-	0.01	1.510	1.945
76	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI6	26140	1860	1	22.80	24.00	1.318	-	-	0.07	2.100	2.768
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI6	26590	1905	1	22.75	24.00	1.334	-	-	-0.03	1.820	2.427
	LTE Band 25	20M	QPSK	1	0	-	Front	3mm	Ant 2	DSI4	26140	1860	1	22.80	24.00	1.318	-	-	-0.12	1.060	1.397
	LTE Band 25	20M	QPSK	1	0	-	Back	6mm	Ant 2	DSI4	26340	1880	1	22.90	24.00	1.288	-	-	-0.11	0.530	0.683
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	6mm	Ant 2	DSI4	26340	1880	1	22.90	24.00	1.288	-	-	-0.14	0.507	0.653
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI6	26340	1880	1	22.44	23.00	1.138	-	-	0	1.850	2.105
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI6	26340	1880	1	22.44	23.00	1.138	-	-	0.16	1.090	1.240
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI6	26340	1880	1	22.44	23.00	1.138	-	-	-0.14	1.480	1.684
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSI6	26340	1880	1	22.39	23.00	1.151	-	-	0	1.870	2.152
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI6	26340	1880	1	22.39	23.00	1.151	-	-	-0.11	1.520	1.749
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI6	26340	1880	1	21.00	22.20	1.318	-	-	0.08	0.922	1.215
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	26340	1880	1	21.00	22.20	1.318	-	-	-0.11	1.540	2.030
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI6	26340	1880	1	21.00	22.20	1.318	-	-	-0.02	1.270	1.674
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	26140	1860	1	20.90	22.20	1.349	-	-	0.13	1.390	1.875
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	26590	1905	1	20.94	22.20	1.337	-	-	0.15	1.300	1.738
	LTE Band 25	20M	QPSK	1	0	-	Front	3mm	Ant 1	DSI4	26340	1880	1	22.36	24.00	1.459	-	-	-0.05	0.748	1.091
	LTE Band 25	20M	QPSK	1	0	-	Back	11mm	Ant 1	DSI4	26340	1880	1	22.36	24.00	1.459	-	-	-0.13	0.481	0.702
	LTE Band 25	20M	QPSK	1	0	-	Top Side	6mm	Ant 1	DSI4	26340	1880	1	22.36	24.00	1.459	-	-	-0.06	1.110	1.619
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI6	26340	1880	1	20.96	22.20	1.330	-	-	-0.11	0.874	1.163
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI6	26340	1880	1	20.96	22.20	1.330	-	-	-0.01	1.460	1.942
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI6	26340	1880	1	20.96	22.20	1.330	-	-	-0.01	1.260	1.676
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI6	26340	1880	1	20.94	22.20	1.337	-	-	0.02	1.410	1.885
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI6	26340	1880	1	23.07	24.00	1.239	-	-	0.11	1.630	2.019
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI6	26340	1880	1	23.07	24.00	1.239	-	-	-0.16	1.470	1.821
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI6	26140	1860	1	22.96	24.00	1.271	-	-	-0.01	1.680	2.135
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI6	26590	1905	1	22.95	24.00	1.274	-	-	-0.01	1.780	2.267
	LTE Band 25	20M	QPSK	1	0	-	Front	3mm	Ant 0	DSI4	26590	1905	1	22.95	24.00	1.274	-	-	-0.1	0.929	1.183
	LTE Band 25	20M	QPSK	1	0	-	Back	6mm	Ant 0	DSI4	26340	1880	1	23.07	24.00	1.239	-	-	-0.14	0.498	0.617
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI6	26340	1880	1	22.62	23.00	1.091	-	-	-0.16	1.550	1.692
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	26340	1880	1	22.62	23.00	1.091	-	-	-0.01	1.450	1.583
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI6	26340	1880	1	22.59	23.00	1.099	-	-	0.12	1.520	1.670
77	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	DSI6	376000	1880	1	22.81	24.00	1.315	-	-	-0.05	1.930	2.538
	FR1 n2 Other PA	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	DSI6	376000	1880	1	22.81	24.00	1.315	-	-	0.17	1.760	2.315
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	DSI6	376000	1880	1	22.81	24.00	1.315	-	-	-0.1	1.510	1.986
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	DSI6	376000	1880	1	22.81	24.00	1.315	-	-	0.16	1.810	2.381



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	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	DSI6	372000	1860	1	22.76	24.00	1.330	-	-	-0.13	1.760	2.342
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	DSI6	380000	1900	1	22.78	24.00	1.324	-	-	-0.16	1.690	2.238
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	DSI6	372000	1860	1	22.76	24.00	1.330	-	-	0.15	1.870	2.488
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	DSI6	380000	1900	1	22.78	24.00	1.324	-	-	0.09	1.720	2.278
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	3mm	Ant 2	DSI4	376000	1880	1	22.81	24.00	1.315	-	-	0.06	0.803	1.056
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	6mm	Ant 2	DSI4	376000	1880	1	22.81	24.00	1.315	-	-	0.01	0.426	0.560
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	6mm	Ant 2	DSI4	376000	1880	1	22.81	24.00	1.315	-	-	0.09	0.760	1.000
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 2	DSI6	376000	1880	1	22.72	24.00	1.343	-	-	0.15	1.840	2.471
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 2	DSI6	376000	1880	1	22.72	24.00	1.343	-	-	-0.06	1.390	1.866
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 2	DSI6	376000	1880	1	22.72	24.00	1.343	-	-	0	1.760	2.363
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 2	DSI6	372000	1860	1	22.66	24.00	1.361	-	-	-0.03	1.680	2.287
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 2	DSI6	380000	1900	1	22.68	24.00	1.355	-	-	-0.07	1.610	2.182
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 2	DSI6	372000	1860	1	22.66	24.00	1.361	-	-	0.09	1.760	2.396
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 2	DSI6	380000	1900	1	22.68	24.00	1.355	-	-	0.08	1.680	2.277
	FR1 n2	20M	QPSK	100	0	DFT-15	Front	0mm	Ant 2	DSI6	376000	1880	1	22.70	24.00	1.349	-	-	0.04	1.760	2.374
	FR1 n2	20M	QPSK	100	0	DFT-15	Bottom Side	0mm	Ant 2	DSI6	376000	1880	1	22.70	24.00	1.349	-	-	0.02	1.650	2.226
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI6	376000	1880	1	20.60	22.00	1.380	-	-	-0.06	1.250	1.725
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI6	376000	1880	1	20.60	22.00	1.380	-	-	0.16	1.730	2.388
	FR1 n2 Other PA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI6	376000	1880	1	20.60	22.00	1.380	-	-	0.01	1.600	2.209
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI6	376000	1880	1	20.60	22.00	1.380	-	-	-0.1	1.670	2.305
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI6	372000	1860	1	20.53	22.00	1.403	-	-	0.13	1.590	2.230
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI6	380000	1900	1	20.55	22.00	1.396	-	-	-0.03	1.480	2.067
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI6	372000	1860	1	20.53	22.00	1.403	-	-	-0.05	1.650	2.315
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI6	380000	1900	1	20.55	22.00	1.396	-	-	-0.13	1.600	2.234
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	3mm	Ant 1	DSI4	376000	1880	1	22.55	24.00	1.396	-	-	-0.01	0.707	0.987
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	11mm	Ant 1	DSI4	376000	1880	1	22.55	24.00	1.396	-	-	0	0.395	0.552
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	6mm	Ant 1	DSI4	376000	1880	1	22.55	24.00	1.396	-	-	0.13	1.130	1.578
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 1	DSI6	376000	1880	1	20.58	22.00	1.387	-	-	0.11	1.190	1.650
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	DSI6	376000	1880	1	20.58	22.00	1.387	-	-	0.02	1.650	2.288
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI6	376000	1880	1	20.58	22.00	1.387	-	-	-0.13	1.580	2.191
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI6	372000	1860	1	20.52	22.00	1.406	-	-	-0.06	1.510	2.123
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 1	DSI6	380000	1900	1	20.54	22.00	1.400	-	-	0.07	1.420	1.987
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	DSI6	372000	1860	1	20.52	22.00	1.406	-	-	-0.16	1.630	2.292
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	DSI6	380000	1900	1	20.54	22.00	1.400	-	-	-0.01	1.570	2.197
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 1	DSI6	376000	1880	1	20.57	22.00	1.390	-	-	0.14	1.590	2.210
	FR1 n2	20M	QPSK	100	0	DFT-15	Top Side	0mm	Ant 1	DSI6	376000	1880	1	20.57	22.00	1.390	-	-	-0.16	1.510	2.099
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI6	376000	1880	1	21.29	23.00	1.483	-	-	0.04	1.560	2.313
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	376000	1880	1	21.29	23.00	1.483	-	-	0.07	1.480	2.194
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	376000	1880	1	21.29	23.00	1.483	-	-	0.01	1.080	1.601
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI6	372000	1860	1	21.25	23.00	1.496	-	-	0.02	1.450	2.170
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI6	380000	1900	1	21.22	23.00	1.507	-	-	0.08	1.420	2.139
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	372000	1860	1	21.25	23.00	1.496	-	-	-0.09	1.310	1.960
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	380000	1900	1	21.22	23.00	1.507	-	-	0.14	1.280	1.928
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	3mm	Ant 0	DSI4	376000	1880	1	22.25	24.00	1.496	-	-	-0.1	0.891	1.333
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	6mm	Ant 0	DSI4	376000	1880	1	22.25	24.00	1.496	-	-	0.07	0.515	0.771
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	6mm	Ant 0	DSI4	376000	1880	1	22.25	24.00	1.496	-	-	-0.1	0.396	0.593
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 0	DSI6	376000	1880	1	21.26	23.00	1.493	-	-	0.16	1.490	2.224
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 0	DSI6	376000	1880	1	21.26	23.00	1.493	-	-	-0.02	1.400	2.090
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	0mm	Ant 0	DSI6	376000	1880	1	21.26	23.00	1.493	-	-	-0.1	1.030	1.538
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 0	DSI6	372000	1860	1	21.24	23.00	1.500	-	-	-0.1	1.370	2.055
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 0	DSI6	380000	1900	1	21.21	23.00	1.510	-	-	0.09	1.310	1.978
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 0	DSI6	372000	1860	1	21.24	23.00	1.500	-	-	-0.01	1.250	1.875
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 0	DSI6	380000	1900	1	21.21	23.00	1.510	-	-	-0.11	1.190	1.797
	FR1 n2	20M	QPSK	100	0	DFT-15	Front	0mm	Ant 0	DSI6	376000	1880	1	21.24	23.00	1.500	-	-	0.15	1.400	2.100
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 0	DSI6	376000	1880	1	21.24	23.00	1.500	-	-	-0.06	1.330	1.995
<b>2600Mhz</b>																					
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI6	21100	2535	1	21.77	22.90	1.297	-	-	-0.15	1.490	1.933
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI6	21100	2535	1	21.77	22.90	1.297	-	-	-0.16	0.914	1.186



**FCC SAR Test Report**

**Report No. : FA441212**

78	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	21100	2535	1	21.77	22.90	1.297	-	-	0.01	2.350	<b>3.048</b>
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	21100+20902	2535+2515.2	1	21.69	22.90	1.321	-	-	0.12	2.210	2.920
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	20850	2510	1	21.74	22.90	1.306	-	-	-0.02	2.190	2.861
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	21350	2560	1	21.70	22.90	1.318	-	-	-0.15	2.090	2.755
	LTE Band 7	20M	QPSK	1	0	-	Front	3mm	Ant 2	DSI4	21100	2535	1	23.36	24.00	1.159	-	-	0.12	0.984	1.140
	LTE Band 7	20M	QPSK	1	0	-	Back	6mm	Ant 2	DSI4	21100	2535	1	23.36	24.00	1.159	-	-	0	0.631	0.731
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	6mm	Ant 2	DSI4	21100	2535	1	23.36	24.00	1.159	-	-	0.02	1.200	1.391
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI6	21100	2535	1	21.70	22.90	1.318	-	-	-0.01	1.410	1.859
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI6	21100	2535	1	21.70	22.90	1.318	-	-	-0.09	0.879	1.159
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI6	21100	2535	1	21.70	22.90	1.318	-	-	-0.07	2.270	2.992
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI6	20850	2510	1	21.68	22.90	1.324	-	-	0.07	2.110	2.794
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI6	21350	2560	1	21.65	22.90	1.334	-	-	0.09	2.060	2.747
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI6	21100	2535	1	21.66	22.90	1.330	-	-	0.13	2.150	2.860
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI6	21100	2535	1	21.22	22.20	1.253	-	-	-0.02	1.250	1.566
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	21100	2535	1	21.22	22.20	1.253	-	-	0.14	1.710	2.143
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI6	21100	2535	1	21.22	22.20	1.253	-	-	-0.07	1.450	1.817
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI6	21100	2535	1	21.22	22.20	1.253	-	-	-0.14	0.749	0.939
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	20850	2510	1	21.15	22.20	1.274	-	-	0.03	1.810	2.305
	LTE Band 7C	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	20850+21048	2510+2529.8	1	21.12	22.20	1.282	-	-	-0.06	1.680	2.154
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI6	21350	2560	1	21.18	22.20	1.265	-	-	0.08	1.610	2.036
	LTE Band 7	20M	QPSK	1	0	-	Front	3mm	Ant 1	DSI4	21100	2535	1	23.14	24.00	1.219	-	-	-0.05	0.571	0.696
	LTE Band 7	20M	QPSK	1	0	-	Back	11mm	Ant 1	DSI4	20850	2510	1	22.97	24.00	1.268	-	-	-0.01	0.279	0.354
	LTE Band 7	20M	QPSK	1	0	-	Left Side	8mm	Ant 1	DSI4	21100	2535	1	23.14	24.00	1.219	-	-	0.11	0.483	0.589
	LTE Band 7	20M	QPSK	1	0	-	Top Side	6mm	Ant 1	DSI4	21100	2535	1	23.14	24.00	1.219	-	-	0.13	0.479	0.584
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI6	21100	2535	1	21.18	22.20	1.265	-	-	-0.03	1.210	1.530
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI6	21100	2535	1	21.18	22.20	1.265	-	-	-0.01	1.680	2.125
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI6	21100	2535	1	21.18	22.20	1.265	-	-	0.11	1.430	1.809
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI6	21100	2535	1	21.18	22.20	1.265	-	-	-0.12	0.701	0.887
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI6	20850	2510	1	21.13	22.20	1.279	-	-	-0.11	1.710	2.188
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI6	21350	2560	1	21.15	22.20	1.274	-	-	0.04	1.590	2.025
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI6	21100	2535	1	21.07	22.20	1.297	-	-	-0.03	1.610	2.088
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI6	21100	2535	1	19.55	21.20	1.462	-	-	0.14	1.410	2.062
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI6	21100	2535	1	19.55	21.20	1.462	-	-	-0.01	1.500	2.193
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI6	21100	2535	1	19.55	21.20	1.462	-	-	0.1	1.310	1.915
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI6	20850	2510	1	19.48	21.20	1.486	-	-	0.02	1.430	2.125
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI6	21350	2560	1	19.50	21.20	1.479	-	-	0.05	1.340	1.982
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI6	20850	2510	1	19.48	21.20	1.486	-	-	0.08	1.590	2.363
	LTE Band 7C	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI6	20850+21048	2510+2529.8	1	19.40	21.20	1.514	-	-	-0.09	1.510	2.285
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI6	21350	2560	1	19.50	21.20	1.479	-	-	0.03	1.550	2.293
	LTE Band 7	20M	QPSK	1	0	-	Front	3mm	Ant 0	DSI4	20850	2510	1	22.32	24.00	1.472	-	-	0.07	0.910	1.340
	LTE Band 7	20M	QPSK	1	0	-	Back	6mm	Ant 0	DSI4	20850	2510	1	22.32	24.00	1.472	-	-	0.15	0.526	0.774
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	6mm	Ant 0	DSI4	21100	2535	1	22.41	24.00	1.442	-	-	-0.06	0.823	1.187
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI6	21100	2535	1	19.52	21.20	1.472	-	-	0.11	1.330	1.958
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	21100	2535	1	19.52	21.20	1.472	-	-	-0.15	1.410	2.076
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI6	21100	2535	1	19.52	21.20	1.472	-	-	-0.03	1.250	1.840
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	20850	2510	1	19.45	21.20	1.496	-	-	-0.04	1.420	2.125
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	21350	2560	1	19.40	21.20	1.514	-	-	0.07	1.380	2.089
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI6	21100	2535	1	19.49	21.20	1.483	-	-	-0.15	1.250	1.853
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI6	21100	2535	1	19.49	21.20	1.483	-	-	-0.07	1.390	2.061
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI6	40620	2593	1	23.70	24.00	1.072	62.9	1.006	-0.02	1.580	1.703
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	40620	2593	1	23.70	24.00	1.072	62.9	1.006	0.04	2.340	2.522
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	40620+40422	2593+2573.2	1	23.60	24.00	1.096	62.9	1.006	0.08	2.230	2.460
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	39750	2506	1	23.48	24.00	1.127	62.9	1.006	-0.15	2.150	2.438
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	40185	2549.5	1	23.53	24.00	1.114	62.9	1.006	-0.02	1.960	2.197
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	41055	2636.5	1	23.61	24.00	1.094	62.9	1.006	0.14	1.930	2.124
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI6	41490	2680	1	23.35	24.00	1.161	62.9	1.006	-0.13	1.920	2.243



Table with 21 columns: LTE Band, Modulation, Power, etc. Row 79 is highlighted with a yellow background.



	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	40185	2549.5	1	22.08	23.00	1.236	62.9	1.006	-0.05	1.550	1.927
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	41055	2636.5	1	22.17	23.00	1.211	62.9	1.006	0.06	1.440	1.754
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI6	41490	2680	1	22.06	23.00	1.242	62.9	1.006	-0.07	1.480	1.849
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI6	40620	2593	1	22.15	23.00	1.216	62.9	1.006	0.02	1.430	1.750
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 2	DSI6	507000	2535	1	22.82	23.50	1.169	-	-	0.09	1.680	1.965
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 2	DSI6	507000	2535	1	22.82	23.50	1.169	-	-	-0.15	1.890	2.210
80	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	DSI6	507000	2535	1	22.82	23.50	1.169	-	-	0.13	2.610	3.052
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	3mm	Ant 2	DSI4	507000	2535	1	23.38	24.00	1.153	-	-	0.07	0.756	0.872
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	6mm	Ant 2	DSI4	507000	2535	1	23.38	24.00	1.153	-	-	0.03	0.408	0.471
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	6mm	Ant 2	DSI4	507000	2535	1	23.38	24.00	1.153	-	-	0.16	0.819	0.945
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 2	DSI6	507000	2535	1	22.79	23.50	1.178	-	-	0.01	1.620	1.908
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 2	DSI6	507000	2535	1	22.79	23.50	1.178	-	-	-0.09	1.860	2.190
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 2	DSI6	507000	2535	1	22.79	23.50	1.178	-	-	0.08	2.480	2.920
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 2	DSI6	507000	2535	1	22.75	23.50	1.189	-	-	-0.09	1.790	2.127
	FR1 n7	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 2	DSI6	507000	2535	1	22.75	23.50	1.189	-	-	0.08	2.360	2.805
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI6	507000	2535	1	21.70	22.50	1.202	-	-	-0.12	1.750	2.104
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI6	507000	2535	1	21.70	22.50	1.202	-	-	0.13	1.630	1.960
	FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI6	507000	2535	1	21.70	22.50	1.202	-	-	0.11	0.644	0.774
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	11mm	Ant 1	DSI4	507000	2535	1	23.26	24.00	1.186	-	-	0	0.263	0.312
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	8mm	Ant 1	DSI4	507000	2535	1	23.26	24.00	1.186	-	-	-0.13	0.377	0.447
	FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	6mm	Ant 1	DSI4	507000	2535	1	23.26	24.00	1.186	-	-	0.02	0.498	0.591
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI6	507000	2535	1	21.68	22.50	1.208	-	-	0.01	1.620	1.957
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 1	DSI6	507000	2535	1	21.68	22.50	1.208	-	-	-0.03	1.590	1.920
	FR1 n7	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI6	507000	2535	1	21.68	22.50	1.208	-	-	0.13	0.575	0.694
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 1	DSI6	507000	2535	1	21.65	22.50	1.216	-	-	-0.12	1.570	1.909
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI6	507000	2535	1	19.59	21.00	1.384	-	-	0.05	1.410	1.951
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	1	19.59	21.00	1.384	-	-	0.01	2.000	2.767
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 0	DSI6	507000	2535	1	19.59	21.00	1.384	-	-	0.09	0.980	1.356
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	507000	2535	1	19.59	21.00	1.384	-	-	0.04	1.860	2.573
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	3mm	Ant 0	DSI4	507000	2535	1	22.55	24.00	1.396	-	-	0.09	0.867	1.211
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	6mm	Ant 0	DSI4	507000	2535	1	22.55	24.00	1.396	-	-	-0.16	0.574	0.802
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	DSI4	507000	2535	1	22.55	24.00	1.396	-	-	0.01	0.496	0.693
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	6mm	Ant 0	DSI4	507000	2535	1	22.55	24.00	1.396	-	-	-0.05	0.784	1.095
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI6	507000	2535	1	19.57	21.00	1.390	-	-	0.01	1.310	1.821
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	1	19.57	21.00	1.390	-	-	0.15	1.910	2.655
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 0	DSI6	507000	2535	1	19.57	21.00	1.390	-	-	0.06	0.950	1.320
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI6	507000	2535	1	19.57	21.00	1.390	-	-	-0.16	1.730	2.405
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	1	19.51	21.00	1.409	-	-	0.08	1.350	1.903
	FR1 n7	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 0	DSI6	507000	2535	1	19.51	21.00	1.409	-	-	0.04	1.440	2.029
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 2	DSI6	518598	2592.99	1	21.76	22.50	1.186	-	-	0.09	1.640	1.945
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI6	518598	2592.99	1	21.76	22.50	1.186	-	-	0.1	2.020	2.395
81	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI6	518598	2592.99	1	21.76	22.50	1.186	-	-	0.03	2.630	3.119
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI6	518598	2592.99	2	21.66	22.50	1.213	-	-	-0.07	2.210	2.682
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	3mm	Ant 2	DSI4	518598	2592.99	1	23.14	24.00	1.219	-	-	-0.06	0.713	0.869
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	6mm	Ant 2	DSI4	518598	2592.99	1	23.14	24.00	1.219	-	-	-0.02	0.473	0.577
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	6mm	Ant 2	DSI4	518598	2592.99	1	23.14	24.00	1.219	-	-	0.1	1.050	1.280
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 2	DSI6	518598	2592.99	1	21.74	22.50	1.191	-	-	0.16	1.540	1.835
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI6	518598	2592.99	1	21.74	22.50	1.191	-	-	0.01	1.890	2.251
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 2	DSI6	518598	2592.99	1	21.74	22.50	1.191	-	-	-0.08	2.500	2.978
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 2	DSI6	518598	2592.99	1	21.73	22.50	1.194	-	-	0.15	1.530	1.827
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	DSI6	518598	2592.99	1	21.73	22.50	1.194	-	-	-0.13	1.920	2.292
	FR1 n41	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	Ant 2	DSI6	518598	2592.99	1	21.73	22.50	1.194	-	-	0.15	2.480	2.961
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 1	DSI6	518598	2592.99	1	21.82	22.50	1.169	-	-	0.02	1.790	2.093
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI6	518598	2592.99	1	21.82	22.50	1.169	-	-	0.08	2.020	2.362
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	DSI6	518598	2592.99	1	21.82	22.50	1.169	-	-	0.14	1.390	1.626
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 1	DSI6	518598	2592.99	1	21.78	22.50	1.180	-	-	0.14	1.860	2.195
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSI6	518598	2592.99	1	21.78	22.50	1.180	-	-	-0.01	2.060	2.431





Table with columns for device model, frequency, modulation, power, duty cycle, location, antenna, and SAR values. Includes rows for FR1 n41, FR1 n38, LTE Band 42, and FR1 n78. A '3500Mhz' section is also present.



# FCC SAR Test Report

Report No. : FA441212

	FR1 n78	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 6	DSI4	633332	3499.98	1	20.19	21.00	1.205	-	-	0.08	1.680	2.024
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	DSI6	633332	3499.98	1	21.00	22.00	1.259	-	-	-0.02	1.150	1.448
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	DSI6	633332	3499.98	1	20.95	22.00	1.274	-	-	-0.06	1.290	1.643
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	4mm	Ant 9	DSI4	633332	3499.98	1	20.95	22.00	1.274	-	-	-0.07	0.363	0.462

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 8+7(7)	Standalone	1	2412	1	19.51	20.50	1.256	100	1.000	-0.02	1.320	1.658
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 8+7(7)	Standalone	1	2412	1	19.51	20.50	1.256	100	1.000	-0.07	1.430	1.796
84	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 8+7(7)	Standalone	1	2412	1	19.51	20.50	1.256	100	1.000	0.08	2.370	<b>2.977</b>
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 8+7(7)	Standalone	6	2437	1	19.11	20.50	1.377	100	1.000	0.02	2.010	2.768
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 8+7(7)	Standalone	11	2462	1	19.12	20.50	1.374	100	1.000	0.13	1.910	2.624
	WLAN2.4GHz	802.11b 1Mbps	Front	3mm	Ant 8+7(7)	Full	1	2412	1	20.10	21.50	1.380	100	1.000	-0.14	0.559	0.772
	WLAN2.4GHz	802.11b 1Mbps	Back	4mm	Ant 8+7(7)	Full	1	2412	1	20.10	21.50	1.380	100	1.000	0.11	0.976	1.347
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 8+7(7)	Full	1	2412	1	20.10	21.50	1.380	100	1.000	0.09	0.841	1.161
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 8+7(7)	Simultaneous	1	2412	1	14.36	15.50	1.300	100	1.000	0.09	0.438	0.569
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 8+7(7)	Simultaneous	1	2412	1	14.36	15.50	1.300	100	1.000	0.04	0.510	0.663
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 8+7(7)	Simultaneous	1	2412	1	14.36	15.50	1.300	100	1.000	0.08	0.763	0.992
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8+7(8)	Standalone	46	5230	1	17.41	19.00	1.442	100	1.000	-0.09	1.060	1.529
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8+7(8)	Standalone	46	5230	1	17.41	19.00	1.442	100	1.000	-0.15	0.557	0.803
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8+7(8)	Standalone	46	5230	1	17.41	19.00	1.442	100	1.000	-0.06	0.967	1.395
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	46	5230	1	17.41	19.00	1.442	100	1.000	0.07	1.870	2.697
85	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	46	5230	2	17.41	19.00	1.442	100	1.000	-0.12	2.050	<b>2.956</b>
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	38	5190	1	15.04	16.50	1.400	100	1.000	-0.1	1.370	1.917
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	3mm	Ant 8+7(8)	Full	46	5230	1	17.55	19.50	1.567	100	1.000	-0.12	0.321	0.503
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	4mm	Ant 8+7(8)	Full	46	5230	1	17.55	19.50	1.567	100	1.000	0.13	0.412	0.646
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	7mm	Ant 8+7(8)	Full	46	5230	1	17.55	19.50	1.567	100	1.000	-0.05	0.218	0.342
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	5mm	Ant 8+7(8)	Full	46	5230	1	17.55	19.50	1.567	100	1.000	0.1	0.462	0.724
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 8+7(7)	Simultaneous	42	5210	1	11.58	13.00	1.387	100	1.000	-0.02	0.338	0.469
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8+7(7)	Simultaneous	42	5210	1	11.58	13.00	1.387	100	1.000	0.02	0.172	0.239
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 8+7(7)	Simultaneous	42	5210	1	11.58	13.00	1.387	100	1.000	-0.03	0.301	0.417
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8+7(7)	Simultaneous	42	5210	1	11.58	13.00	1.387	100	1.000	-0.05	0.660	0.915
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8+7(8)	Standalone	54	5270	1	16.94	18.50	1.432	100	1.000	0.11	0.921	1.319
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8+7(8)	Standalone	54	5270	1	16.94	18.50	1.432	100	1.000	0.08	0.403	0.577
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8+7(8)	Standalone	54	5270	1	16.94	18.50	1.432	100	1.000	-0.02	0.800	1.146
86	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	54	5270	1	16.94	18.50	1.432	100	1.000	0.15	2.050	<b>2.936</b>
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	62	5310	1	14.56	16.50	1.563	100	1.000	-0.12	1.400	2.188
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	3mm	Ant 8+7(8)	Full	54	5270	1	17.55	19.50	1.567	100	1.000	-0.04	0.271	0.425
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	4mm	Ant 8+7(8)	Full	54	5270	1	17.55	19.50	1.567	100	1.000	0.08	0.375	0.588
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	7mm	Ant 8+7(8)	Full	54	5270	1	17.55	19.50	1.567	100	1.000	-0.13	0.135	0.212
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	5mm	Ant 8+7(8)	Full	54	5270	1	17.55	19.50	1.567	100	1.000	-0.16	0.376	0.589
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 8+7(7)	Simultaneous	50	5250	1	11.89	13.50	1.449	100	1.000	-0.07	0.316	0.458
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+7(7)	Simultaneous	50	5250	1	11.89	13.50	1.449	100	1.000	0.06	0.129	0.187
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 8+7(7)	Simultaneous	50	5250	1	11.89	13.50	1.449	100	1.000	-0.11	0.267	0.387
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 8+7(7)	Simultaneous	50	5250	1	11.89	13.50	1.449	100	1.000	0.11	0.655	0.949
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 8+7(7)	Standalone	138	5690	1	16.68	18.00	1.355	100	1.000	0.14	1.130	1.531
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8+7(7)	Standalone	138	5690	1	16.68	18.00	1.355	100	1.000	0.06	0.594	0.805
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 8+7(7)	Standalone	138	5690	1	16.68	18.00	1.355	100	1.000	-0.03	1.200	1.626
87	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8+7(7)	Standalone	138	5690	1	16.68	18.00	1.355	100	1.000	0.12	1.940	<b>2.629</b>
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8+7(7)	Standalone	106	5530	1	12.84	14.50	1.466	100	1.000	0.02	1.120	1.641
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8+7(7)	Standalone	122	5610	1	16.42	18.00	1.439	100	1.000	0.05	1.710	2.460
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	3mm	Ant 8+7(8)	Full	142	5710	1	17.52	19.50	1.578	100	1.000	0.07	0.469	0.740
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	4mm	Ant 8+7(8)	Full	142	5710	1	17.52	19.50	1.578	100	1.000	-0.08	0.674	1.063
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	7mm	Ant 8+7(8)	Full	142	5710	1	17.52	19.50	1.578	100	1.000	0.05	0.330	0.521



**FCC SAR Test Report**

**Report No. : FA441212**

	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	5mm	Ant 8+7(8)	Full	142	5710	1	17.52	19.50	1.578	100	1.000	-0.17	0.559	0.882
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 8+7(7)	Simultaneous	114	5570	1	11.16	13.00	1.528	100	1.000	-0.03	0.362	0.553
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+7(7)	Simultaneous	114	5570	1	11.16	13.00	1.528	100	1.000	0.13	0.193	0.295
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 8+7(7)	Simultaneous	114	5570	1	11.16	13.00	1.528	100	1.000	-0.06	0.384	0.587
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 8+7(7)	Simultaneous	114	5570	1	11.16	13.00	1.528	100	1.000	0.12	0.646	0.987
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8+7(8)	Standalone	151	5755	1	17.58	19.00	1.387	100	1.000	-0.11	1.840	2.552
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 8+7(8)	Standalone	151	5755	1	17.58	19.00	1.387	100	1.000	0.13	0.770	1.068
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 8+7(8)	Standalone	151	5755	1	17.58	19.00	1.387	100	1.000	0.05	1.410	1.955
88	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	151	5755	1	17.58	19.00	1.387	100	1.000	0.13	2.110	<b>2.926</b>
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 8+7(8)	Standalone	159	5795	1	17.51	19.00	1.409	100	1.000	0.09	1.710	2.410
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	159	5795	1	17.51	19.00	1.409	100	1.000	-0.05	1.870	2.635
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	3mm	Ant 8+7(8)	Full	151	5755	1	17.65	19.50	1.531	100	1.000	0.01	0.544	0.833
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	4mm	Ant 8+7(8)	Full	151	5755	1	17.65	19.50	1.531	100	1.000	0.03	0.769	1.177
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	7mm	Ant 8+7(8)	Full	151	5755	1	17.65	19.50	1.531	100	1.000	0.1	0.362	0.554
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	5mm	Ant 8+7(8)	Full	151	5755	1	17.65	19.50	1.531	100	1.000	-0.16	0.639	0.978
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 8+7(8)	Simultaneous	155	5775	1	11.28	12.50	1.324	100	1.000	-0.09	0.662	0.877
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8+7(8)	Simultaneous	155	5775	1	11.28	12.50	1.324	100	1.000	-0.04	0.229	0.303
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 8+7(8)	Simultaneous	155	5775	1	11.28	12.50	1.324	100	1.000	-0.07	0.437	0.579
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 8+7(8)	Simultaneous	155	5775	1	11.28	12.50	1.324	100	1.000	0.01	0.686	0.908



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Tilted	0mm	Ant 8+7(7)	Standalone	11	2462	17.68	19.00	1.355	100	1.000	0.13	0.931	1	1.262
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Tilted	0mm	Ant 8+7(7)	Standalone	11	2462	17.68	19.00	1.355	100	1.000	0.08	0.897	1.038	1.216
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+7(8)	Standalone	155	5775	13.16	14.50	1.361	100	1.000	-0.09	0.843	1	1.148
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+7(8)	Standalone	155	5775	13.16	14.50	1.361	100	1.000	0.07	0.831	1.014	1.131
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	4182	836.4	22.97	24.00	1.268	-	-	0.02	0.888	1	1.126
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	4182	836.4	22.97	24.00	1.268	-	-	0.04	0.861	1.031	1.091
1st	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI7	349000	1745	22.85	24.00	1.303	-	-	-0.14	0.969	1	1.263
2nd	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI7	349000	1745	22.85	24.00	1.303	-	-	0.08	0.938	1.033	1.222
1st	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI7	26590	1905	21.65	23.20	1.429	-	-	0.14	0.871	1	1.245
2nd	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI7	26590	1905	21.65	23.20	1.429	-	-	0.04	0.859	1.014	1.227
1st	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	19.14	20.00	1.219	-	-	0.07	1.030	1	1.256
2nd	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	19.14	20.00	1.219	-	-	0.07	0.984	1.047	1.199
1st	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	DSI7	42990	3540	23.55	24.00	1.109	62.9	1.006	0.05	0.959	1	1.070
2nd	LTE Band 42	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	DSI7	42990	3540	23.55	24.00	1.109	62.9	1.006	0.07	0.938	1.022	1.047
1st	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	Standalone	54	5270	15.59	17.00	1.384	100	1.000	0.03	0.826	1	1.143
2nd	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	Standalone	54	5270	15.59	17.00	1.384	100	1.000	0.07	0.798	1.035	1.104
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(7)	Standalone	138	5690	14.32	15.50	1.312	100	1.000	0.08	0.845	1	1.109
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 8+7(7)	Standalone	138	5690	14.32	15.50	1.312	100	1.000	0.01	0.819	1.032	1.075

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	1513	1752.6	22.76	24.00	1.330	-	-	0.07	2.160	1	2.874
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	1513	1752.6	22.76	24.00	1.330	-	-	0.09	2.080	1.038	2.767
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	9262	1852.4	22.94	24.00	1.276	-	-	-0.03	2.130	1	2.719
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI6	9262	1852.4	22.94	24.00	1.276	-	-	0.04	2.090	1.019	2.668
1st	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI6	518598	2592.99	21.76	22.50	1.186	-	-	0.03	2.630	1	3.119
2nd	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI6	518598	2592.99	21.76	22.50	1.186	-	-	0.09	2.570	1.023	3.047
1st	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	DSI6	42990	3540	22.58	23.20	1.153	62.9	1.006	0.08	2.050	1	2.379
2nd	LTE Band 42	20M	QPSK	1	0	-	Left Side	0mm	Ant 4	DSI6	42990	3540	22.58	23.20	1.153	62.9	1.006	0.08	1.980	1.035	2.298
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 8+7(7)	Standalone	1	2412	19.51	20.50	1.256	100	1.000	0.08	2.370	1	2.977
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 8+7(7)	Standalone	1	2412	19.51	20.50	1.256	100	1.000	0.09	2.260	1.049	2.839
1st	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	46	5230	17.41	19.00	1.442	100	1.000	-0.12	2.050	1	2.956
2nd	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	46	5230	17.41	19.00	1.442	100	1.000	0.08	1.950	1.051	2.812
1st	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	54	5270	16.94	18.50	1.432	100	1.000	0.15	2.050	1	2.936
2nd	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	54	5270	16.94	18.50	1.432	100	1.000	0.06	1.930	1.062	2.764
1st	WLAN5.8GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	151	5755	17.58	19.00	1.387	100	1.000	0.13	2.110	1	2.926
2nd	WLAN5.8GHz	-	-	-	-	802.11n-HT40 MCS0	Top Side	0mm	Ant 8+7(8)	Standalone	151	5755	17.58	19.00	1.387	100	1.000	0.07	2.020	1.045	2.801

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/kg$ .
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/kg$ , only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

## 17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6GHz	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
6.	WLAN6GHz+ Bluetooth	Yes	Yes		Yes
7.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
8.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes		Yes
9.	WWAN + WLAN2.4GHz + NFC				Yes
10.	WWAN + WLAN5GHz + NFC				Yes
11.	WWAN + WLAN6GHz + NFC				Yes
12.	WWAN + Bluetooth + NFC				Yes
13.	WLAN5GHz+ Bluetooth + NFC				Yes
14.	WLAN6GHz+ Bluetooth + NFC				Yes
15.	WWAN + WLAN5GHz+ Bluetooth + NFC				Yes
16.	WWAN + WLAN6GHz+ Bluetooth + NFC				Yes

**General Note:**

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). WLAN6GHz has no hotspot function.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can't transmit simultaneously.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- For co-located SAR with WWAN, always chose higher SAR among WLAN5GHz, WLAN 6GHz, it is the worst co-located analysis and can represent each WLAN5GHz and WLAN 6GHz bands.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for Head/hotspot/extremity exposure condition each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- The maximum SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is

- not necessary.
- iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
  - v) The SPLSR calculated results please refer to section 17.6.
18. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support FR2 or other MPE field measurement, therefore section 17 in the SAR report has no TER analysis according to KDB 987594 requirement.

### 17.1 Sub6 Antenna Groups

The Qualcomm® Smart Transmit™ 3.0 of Smart Transmit (Gen2) Feature operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating below conditions for all exposure positions under each DSI for a given exposure category.

- 1) Case 1: Demonstrate that Sum of maximum reported SAR from each of the sub6 AGs and the reported normalized SAR values from radios outside Smart Transmit should be less than regulatory limits for each supported DSI. This condition must be demonstrated for all antenna combinations of sub6 AGs.
  - i. For a given DSI, obtain the highest *reported* SAR for each antenna out of all supported technologies and frequency bands. Obtain the maximum *reported* SAR for each AG by taking the maximum out of *reported* SAR for all antennas belonging to each AG.
  - ii. Demonstrate that the sum of maximum reported SAR (normalized to regulatory limit) from each of the sub6 AGs and the sum of reported SAR (normalized to regulatory limit) from all supported radios outside of Smart Transmit should be less than 1.0
- 2) Case 2: If the Case 1 is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR criteria (Section 4.3.2 (c) in FCC KDB 447498 D01 v06) for each exposure position under each supported DSI. For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.

This device supports two sub6 AG: AG0 and AG1, the detailed please refer to the below table:

<b>Antenna Group 0 (AG0)</b>	ANT0 & ANT2 & ANT6
<b>Antenna Group 1 (AG1)</b>	ANT1 & ANT3 & ANT4 & ANT9

- 3) This model's multi\_Tx\_factor is 1.0.

The conditions are verified through the following criterias:

- i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.
  1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported* SAR at *Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: { [max.SAR.AG0+ max.SAR.AG1] + WIFI/BT worst-case reported SAR } ≤ 1.6 (for 1g, or 4.0 for 10g). (WIFI/BT worst-case reported SAR is the worst SAR in all combinations of WIFI and BT simultaneous transmission)
- ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:
  - a. SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.
  - b. Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.
  - c. Use the 'closest' peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by 'closest', select the peak location out of all antennas (ε AGj) that is closest to the peak location of other AG where SPLSR is evaluated.
- iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: {max.SAR.AG0 + worst-case reported SAR} ≤ 1.6 and {max.SAR.AG1+ worst-case reported SAR } ≤ 1.6 for compliance demonstration (for 1g, or 4.0 for 10g).



For summed SAR results and SPLSR detailed analysis, please refer to section 17.2/17.3 / 17.4 / 17.5 / 17.6 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

**17.2 Head Exposure Conditions**

**General Note:** The unit of SAR evaluation is W/kg.  
**Simultaneous Transmission Evaluation of WWAN+WLAN+BT:**  
**<AG0 maximum report SAR>:**

Test Position	Ant 0	Ant 2	Ant 6	All Antenna MAX SAR 1g W/kg
Right Cheek	0.190	0.174	0.262	<b>0.262</b>
Right Tilted	0.178	0.095	0.094	<b>0.178</b>
Left Cheek	0.362	0.186	0.170	<b>0.362</b>
Left Tilted	0.120	0.095	0.160	<b>0.160</b>

**<AG1 maximum report SAR>:**

Test Position	Ant 1	Ant 3	Ant 4	Ant 9	All Antenna MAX SAR 1g W/kg
Right Cheek	0.889	0.289	0.823	0.355	<b>0.889</b>
Right Tilted	0.886	0.354	0.492	0.496	<b>0.886</b>
Left Cheek	0.438	0.621	0.329	0.571	<b>0.621</b>
Left Tilted	0.594	0.699	0.239	0.534	<b>0.699</b>

**<WLAN2.4GHZ/5GHZ/6GHZ +BT Worse-case SAR>:**

Test Position	1	2	3	1+3 Summed 1g SAR (W/kg)	WLAN/BT worse case
	Bluetooth	2.4GWLAN	5G/6GWLAN		
Right Cheek	0.052	0.433	0.329	0.381	<b>0.433</b>
Right Tilted	0.059	0.444	0.348	0.407	<b>0.444</b>
Left Cheek	0.200	0.573	0.455	0.655	<b>0.655</b>
Left Tilted	0.182	0.640	0.427	0.609	<b>0.640</b>

**<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:**

Test Position	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case
Right Cheek	0.889	0.262	0.433	<b>1.58</b>
Right Tilted	0.886	0.178	0.444	<b>1.51</b>
Left Cheek	0.621	0.362	0.655	<b>1.64</b>
Left Tilted	0.699	0.160	0.640	<b>1.50</b>

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Left Cheek					
Ant,combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	0.438	0.362	0.655	1.46	
ANT3-ANT0	0.621	0.362	0.655	<b>1.64</b>	<b>Case 1</b>
ANT4-ANT0	0.329	0.362	0.655	1.35	
ANT5-ANT0		0.362	0.655	1.02	
ANT9-ANT0	0.571	0.362	0.655	<b>1.59</b>	
ANT1-ANT2	0.438	0.186	0.655	1.28	
ANT3-ANT2	0.621	0.186	0.655	1.46	
ANT4-ANT2	0.329	0.186	0.655	1.17	
ANT5-ANT2		0.186	0.655	0.84	
ANT9-ANT2	0.571	0.186	0.655	1.41	
ANT1-ANT6	0.438	0.170	0.655	1.26	
ANT3-ANT6	0.621	0.170	0.655	1.45	
ANT4-ANT6	0.329	0.170	0.655	1.15	
ANT5-ANT6		0.170	0.655	0.83	
ANT9-ANT6	0.571	0.170	0.655	1.40	

**17.3 Hotspot Exposure Conditions**

**General Note:** The unit of SAR evaluation is W/kg.  
**Simultaneous Transmission Evaluation of WWAN+WLAN+BT:**  
**<AG0 maximum report SAR>:**

Test Position	Ant 0	Ant 2	Ant 6	All Antenna MAX SAR 1g W/kg
Front	1.116	1.263	0.356	<b>1.263</b>
Back	1.230	1.138	0.609	<b>1.230</b>
Left side	1.067			<b>1.067</b>
Right side		0.595	1.096	<b>1.096</b>
Top side				<b>0.000</b>
Bottom side	1.220	1.259	0.294	<b>1.259</b>

**<AG1 maximum report SAR>:**

Test Position	Ant 1	Ant 3	Ant 4	Ant 9	All Antenna MAX SAR 1g W/kg
Front	0.335	0.304	0.223	0.195	<b>0.335</b>
Back	0.631	0.542	0.471	0.563	<b>0.631</b>
Left side	0.592		0.586		<b>0.592</b>
Right side		0.168		0.066	<b>0.168</b>
Top side	0.553	0.557		0.394	<b>0.557</b>
Bottom side					<b>0.000</b>

**<WLAN2.4GHz/5GHz/6GHz +BT Worse-case SAR>:**

Test Position	1 Bluetooth	2 2.4GWLAN	3 5GWLAN	1+3 Summed 1g SAR (W/kg)	WLAN/BT worse case
Front	0.102	0.395	0.294	0.396	<b>0.396</b>
Back	0.204	0.788	0.370	0.574	<b>0.788</b>
Left side				0.000	<b>0.000</b>
Right side	0.334	0.212	0.256	0.590	<b>0.590</b>
Top side	0.112	0.914	0.609	0.721	<b>0.914</b>
Bottom side				0.000	<b>0.000</b>

**<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:**

Test Position	AG0	AG1	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case
Front	0.335	1.263	0.396	<b>1.99</b>
Back	0.631	1.230	0.788	<b>2.65</b>
Left side	0.592	1.067	0.000	<b>1.66</b>
Right side	0.168	1.096	0.590	<b>1.85</b>
Top side	0.557	0.000	0.914	<b>1.47</b>
Bottom side	0.000	1.259	0.000	<b>1.26</b>

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.





Front					
Ant,combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	0.335	1.116	0.396	1.85	Case 18
ANT3-ANT0	0.304	1.116	0.396	1.82	Case 19
ANT4-ANT0	0.223	1.116	0.396	1.74	Case 20
ANT5-ANT0		1.116	0.396	1.51	
ANT9-ANT0	0.195	1.116	0.396	1.71	Case 21
ANT1-ANT2	0.335	1.263	0.396	1.99	Case 22
ANT3-ANT2	0.304	1.263	0.396	1.96	Case 23
ANT4-ANT2	0.223	1.263	0.396	1.88	Case 24
ANT5-ANT2		1.263	0.396	1.66	Case 25
ANT9-ANT2	0.195	1.263	0.396	1.85	Case 26
ANT1-ANT6	0.335	0.356	0.396	1.09	
ANT3-ANT6	0.304	0.356	0.396	1.06	
ANT4-ANT6	0.223	0.356	0.396	0.98	
ANT5-ANT6		0.356	0.396	0.75	
ANT9-ANT6	0.195	0.356	0.396	0.95	

Back					
Ant,combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	0.631	1.230	0.788	2.65	Case 27
ANT3-ANT0	0.542	1.230	0.788	2.56	Case 28
ANT4-ANT0	0.471	1.230	0.788	2.49	Case 29
ANT5-ANT0		1.230	0.788	2.02	Case 30
ANT9-ANT0	0.563	1.230	0.788	2.58	Case 31
ANT1-ANT2	0.631	1.138	0.788	2.56	Case 32
ANT3-ANT2	0.542	1.138	0.788	2.47	Case 33
ANT4-ANT2	0.471	1.138	0.788	2.40	Case 34
ANT5-ANT2		1.138	0.788	1.93	Case 35
ANT9-ANT2	0.563	1.138	0.788	2.49	Case 36
ANT1-ANT6	0.631	0.609	0.788	2.03	Case 37
ANT3-ANT6	0.542	0.609	0.788	1.94	Case 38
ANT4-ANT6	0.471	0.609	0.788	1.87	Case 39
ANT5-ANT6		0.609	0.788	1.40	
ANT9-ANT6	0.563	0.609	0.788	1.96	Case 40

Left side					
Ant,combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	0.592	1.067		1.66	Case 41
ANT3-ANT0		1.067		1.07	
ANT4-ANT0	0.586	1.067		1.65	Case 42
ANT5-ANT0		1.067		1.07	
ANT9-ANT0		1.067		1.07	
ANT1-ANT2	0.592			0.59	
ANT3-ANT2				0.00	
ANT4-ANT2	0.586			0.59	
ANT5-ANT2				0.00	
ANT9-ANT2				0.00	
ANT1-ANT6	0.592			0.59	
ANT3-ANT6				0.00	
ANT4-ANT6	0.586			0.59	
ANT5-ANT6				0.00	
ANT9-ANT6				0.00	



Right side					
Ant,combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0			0.590	0.59	
ANT3-ANT0	0.168		0.590	0.76	
ANT4-ANT0			0.590	0.59	
ANT5-ANT0			0.590	0.59	
ANT9-ANT0	0.066		0.590	0.66	
ANT1-ANT2		0.595	0.590	1.19	
ANT3-ANT2	0.168	0.595	0.590	1.35	
ANT4-ANT2		0.595	0.590	1.19	
ANT5-ANT2		0.595	0.590	1.19	
ANT9-ANT2	0.066	0.595	0.590	1.25	
ANT1-ANT6		1.096	0.590	1.69	Case 43
ANT3-ANT6	0.168	1.096	0.590	1.85	Case 44
ANT4-ANT6		1.096	0.590	1.69	Case 45
ANT5-ANT6		1.096	0.590	1.69	Case 46
ANT9-ANT6	0.066	1.096	0.590	1.75	Case 47

**17.4 Body-Worn Accessory Exposure Conditions**

**General Note:** The unit of SAR evaluation is W/kg.  
**Simultaneous Transmission Evaluation of WWAN+WLAN+BT:**  
**<AG0 maximum report SAR>:**

Test Position	Ant 0	Ant 2	Ant 6	All Antenna MAX SAR 1g W/kg
Front	1.116	1.236	0.489	<b>1.236</b>
Back	1.234	1.167	0.601	<b>1.234</b>

**<AG1 maximum report SAR>:**

Ant 1	Ant 3	Ant 4	Ant 9	All Antenna MAX SAR 1g W/kg
0.496	0.516	0.466	0.322	<b>0.516</b>
0.862	0.774	0.813	0.847	<b>0.862</b>

**<WLAN2.4GHz/5GHz/6GHz +BT Worse-case SAR>:**

Test Position	1	2	3	1+3 Summed 1g SAR (W/kg)	WLAN/BT worse case
	Bluetooth	2.4GWLAN	5G/6GWLAN		
Front	0.102	0.373	0.361	0.463	<b>0.463</b>
Back	0.204	0.697	0.488	0.692	<b>0.697</b>

**<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:**

Test Position	AG0	AG1	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case
Front	0.516	1.236	0.463	<b>2.22</b>
Back	0.862	1.234	0.697	<b>2.79</b>

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Front					
Ant.combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	0.496	1.116	0.463	<b>2.08</b>	<b>Case 59</b>
ANT3-ANT0	0.516	1.116	0.463	<b>2.10</b>	<b>Case 60</b>
ANT4-ANT0	0.466	1.116	0.463	<b>2.05</b>	<b>Case 61</b>
ANT5-ANT0		1.116	0.463	1.58	
ANT9-ANT0	0.322	1.116	0.463	<b>1.90</b>	<b>Case 62</b>
ANT1-ANT2	0.496	1.236	0.463	<b>2.20</b>	<b>Case 63</b>
ANT3-ANT2	0.516	1.236	0.463	<b>2.22</b>	<b>Case 64</b>
ANT4-ANT2	0.466	1.236	0.463	<b>2.17</b>	<b>Case 65</b>
ANT5-ANT2		1.236	0.463	<b>1.70</b>	<b>Case 66</b>
ANT9-ANT2	0.322	1.236	0.463	<b>2.02</b>	<b>Case 67</b>
ANT1-ANT6	0.496	0.489	0.463	1.45	
ANT3-ANT6	0.516	0.489	0.463	1.47	
ANT4-ANT6	0.466	0.489	0.463	1.42	
ANT5-ANT6		0.489	0.463	0.95	
ANT9-ANT6	0.322	0.489	0.463	1.27	



Ant.combination	AG1	AG0	WLAN/BT worse case	AG0+AG1+WLAN/BT worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	0.862	1.234	0.697	2.79	Case 68
ANT3-ANT0	0.774	1.234	0.697	2.71	Case 69
ANT4-ANT0	0.813	1.234	0.697	2.74	Case 70
ANT5-ANT0		1.234	0.697	1.93	Case 71
ANT9-ANT0	0.847	1.234	0.697	2.78	Case 72
ANT1-ANT2	0.862	1.167	0.697	2.73	Case 73
ANT3-ANT2	0.774	1.167	0.697	2.64	Case 74
ANT4-ANT2	0.813	1.167	0.697	2.68	Case 75
ANT5-ANT2		1.167	0.697	1.86	Case 76
ANT9-ANT2	0.847	1.167	0.697	2.71	Case 77
ANT1-ANT6	0.862	0.601	0.697	2.16	Case 78
ANT3-ANT6	0.774	0.601	0.697	2.07	Case 79
ANT4-ANT6	0.813	0.601	0.697	2.11	Case 80
ANT5-ANT6		0.601	0.697	1.30	
ANT9-ANT6	0.847	0.601	0.697	2.15	Case 81

**17.5 Product specific 10g SAR Exposure Conditions**

**Remark:**

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

**General Note:** The unit of SAR evaluation is W/kg.

**Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:**

**<AG0 maximum report SAR>:**

Test Position	Ant 0	Ant 2	Ant 6	All Antenna MAX SAR 1g W/kg
Front	2.774	2.874		<b>2.874</b>
Back	2.767	2.395		<b>2.767</b>
Left side	1.894			<b>1.894</b>
Right side			2.146	<b>2.146</b>
Top side				<b>0.000</b>
Bottom side	2.573	3.119		<b>3.119</b>

**<AG1 maximum report SAR>:**

Test Position	Ant 1	Ant 3	Ant 4	Ant 9	All Antenna MAX SAR 1g W/kg
Front	2.195		0.940		<b>2.195</b>
Back	2.468	0.773	1.930	1.643	<b>2.468</b>
Left side	1.960		2.379		<b>2.379</b>
Right side					<b>0.000</b>
Top side	2.326	2.291			<b>2.326</b>
Bottom side					<b>0.000</b>

**<WLAN2.4GHz/5GHz/6GHz +BT +NFC Worse-case SAR>:**

Test Position	1	2	3	4	2+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)	WLAN/BT+NFC worse case
	Bluetooth	2.4GWLAN	5G/6GWLAN	NFC			
Front 0mm		0.569	0.877	0.000	0.569	0.877	<b>0.877</b>
Back 0mm		0.663	0.303	0.016	0.679	0.319	<b>0.679</b>
Left side 0mm				0.000	0.000	0.000	<b>0.000</b>
Right side 0mm			0.587	0.000	0.000	0.587	<b>0.587</b>
Top side 0mm		0.992	0.987	0.000	0.992	0.987	<b>0.992</b>
Bottom side 0mm				0.000	0.000	0.000	<b>0.000</b>

**<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT+NFC Worse-case>:**

Test Position	AG0	AG1	WLAN/BT +NFC worse case	AG0+AG1+WLAN/BT+NFC worse case
Front	2.195	2.874	0.877	<b>5.95</b>
Back	2.468	2.767	0.679	<b>5.91</b>
Left side	2.379	1.894	0.000	<b>4.27</b>
Right side	0.000	2.146	0.587	2.73
Top side	2.326	0.000	0.992	3.32
Bottom side	0.000	3.119	0.000	3.12

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.



Front					
Ant,combination	AG1	AG0	WLAN/BT +NFC worse case	AG0+AG1+WLAN/BT+NFC worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	2.195	2.774	0.877	5.85	Case 47
ANT3-ANT0		2.774	0.877	3.65	
ANT4-ANT0	0.940	2.774	0.877	4.59	Case 48
ANT5-ANT0		2.774	0.877	3.65	
ANT9-ANT0		2.774	0.877	3.65	
ANT1-ANT2	2.195	2.874	0.877	5.95	Case 49
ANT3-ANT2		2.874	0.877	3.75	
ANT4-ANT2	0.940	2.874	0.877	4.69	Case 50
ANT5-ANT2		2.874	0.877	3.75	
ANT9-ANT2		2.874	0.877	3.75	
ANT1-ANT6	2.195		0.877	3.07	
ANT3-ANT6			0.877	0.88	
ANT4-ANT6	0.940		0.877	1.82	
ANT5-ANT6			0.877	0.88	
ANT9-ANT6			0.877	0.88	

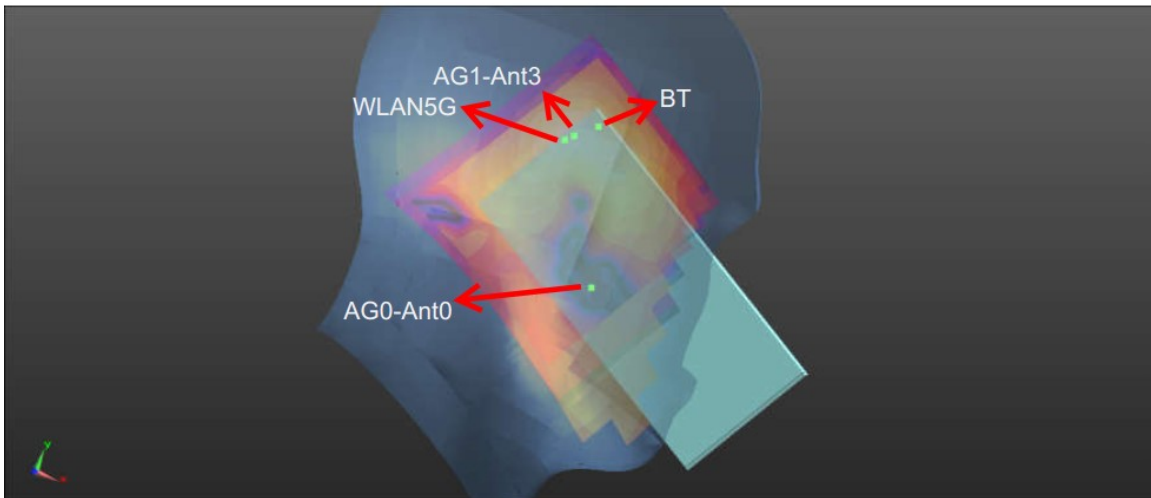
Back					
Ant,combination	AG1	AG0	WLAN/BT +NFC worse case	AG0+AG1+WLAN/BT+NFC worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	2.468	2.767	0.679	5.91	Case 51
ANT3-ANT0	0.773	2.767	0.679	4.22	Case 52
ANT4-ANT0	1.930	2.767	0.679	5.38	Case 53
ANT5-ANT0		2.767	0.679	3.45	
ANT9-ANT0	1.643	2.767	0.679	5.09	Case 54
ANT1-ANT2	2.468	2.395	0.679	5.54	Case 55
ANT3-ANT2	0.773	2.395	0.679	3.85	
ANT4-ANT2	1.930	2.395	0.679	5.00	Case 56
ANT5-ANT2		2.395	0.679	3.07	
ANT9-ANT2	1.643	2.395	0.679	4.72	Case 57
ANT1-ANT6	2.468		0.679	3.15	
ANT3-ANT6	0.773		0.679	1.45	
ANT4-ANT6	1.930		0.679	2.61	
ANT5-ANT6			0.679	0.68	
ANT9-ANT6	1.643		0.679	2.32	

Left side					
Ant,combination	AG1	AG0	WLAN/BT +NFC worse case	AG0+AG1+WLAN/BT+NFC worse case	SPLSR
	SAR	SAR			
ANT1-ANT0	1.960	1.894		3.85	
ANT3-ANT0		1.894		1.89	
ANT4-ANT0	2.379	1.894		4.27	Case 58
ANT5-ANT0		1.894		1.89	
ANT9-ANT0		1.894		1.89	
ANT1-ANT2	1.960			1.96	
ANT3-ANT2				0.00	
ANT4-ANT2	2.379			2.38	
ANT5-ANT2				0.00	
ANT9-ANT2				0.00	
ANT1-ANT6	1.960			1.96	
ANT3-ANT6				0.00	
ANT4-ANT6	2.379			2.38	
ANT5-ANT6				0.00	
ANT9-ANT6				0.00	

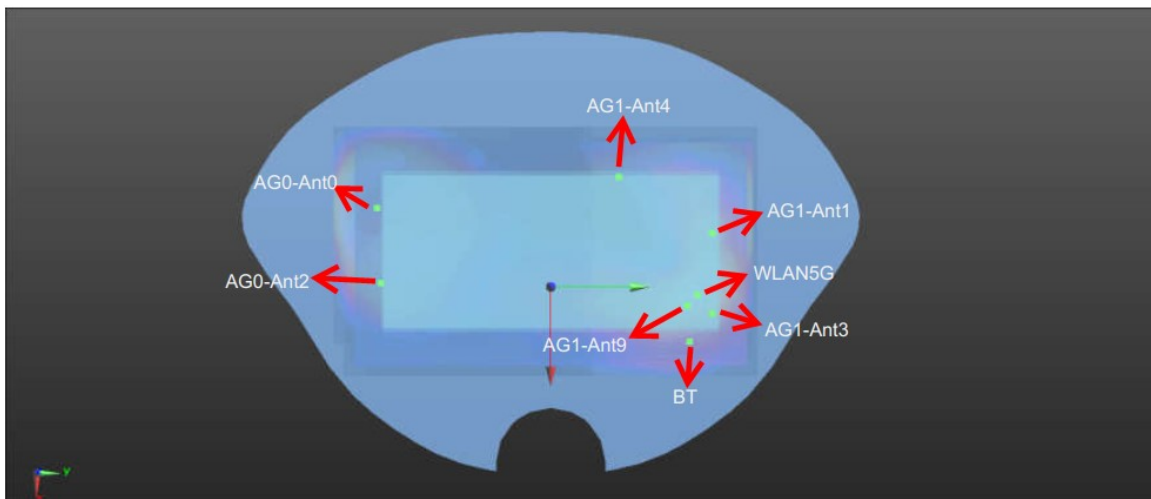
### 17.6 SPLSR Evaluation and Analysis

**General Note:**

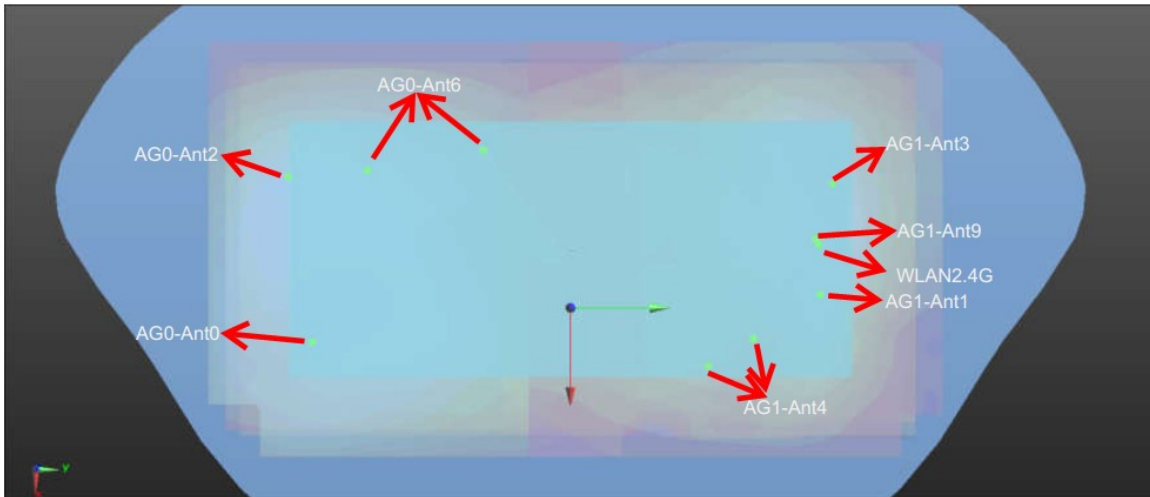
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where  $(x1, y1, z1)$  and  $(x2, y2, z2)$  are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2.  $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, AG1 was summed algebraically with the BT/WIFI Antenna 7/8 and NFC antenna for the purposes of hybrid SPLSR combination and they are located at the Top of the device.
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
5. The axis peak locations refer to Section 17.7.



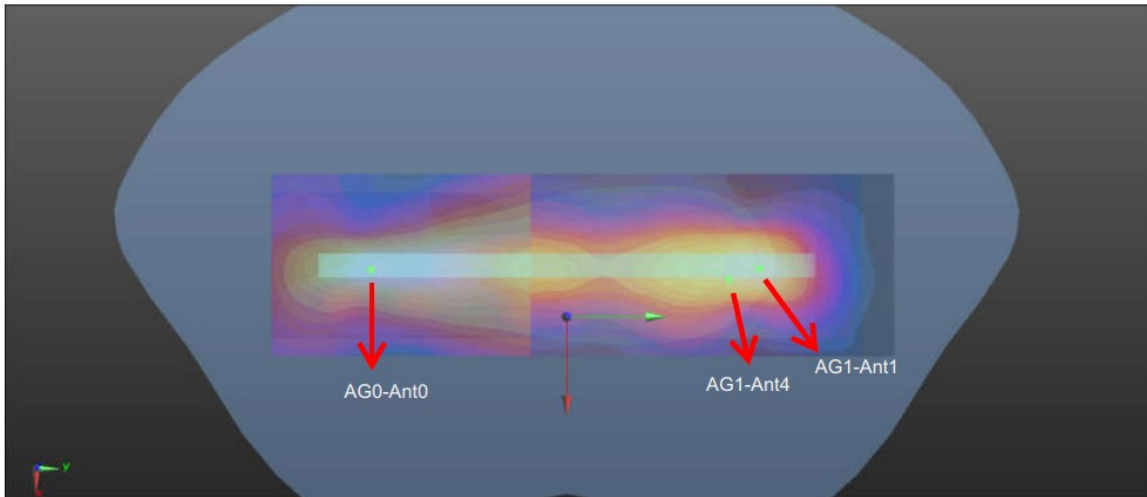
**Head\_Left Cheek 0mm**



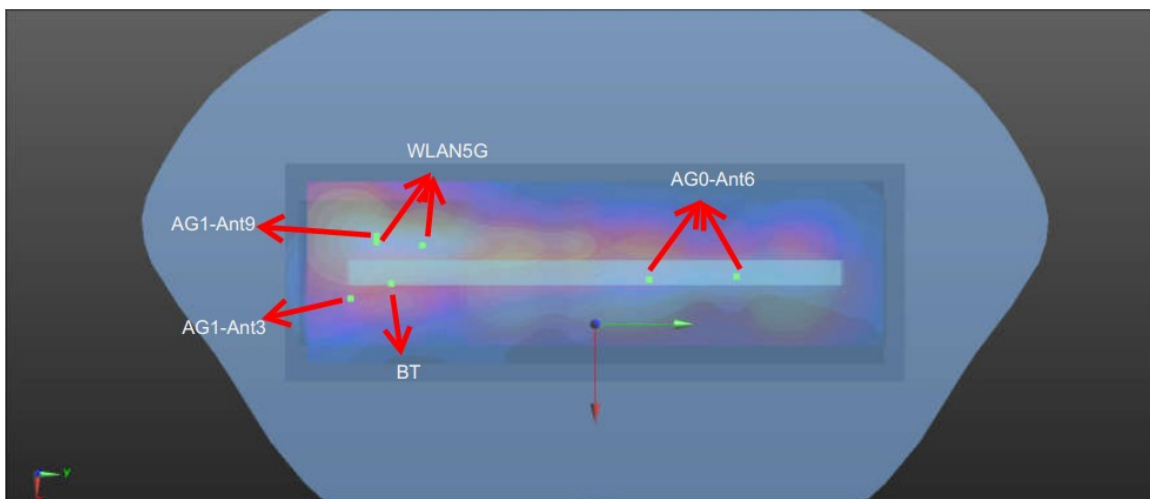
**Hotspot\_Front 5mm**



**Hotspot\_Back 5mm**

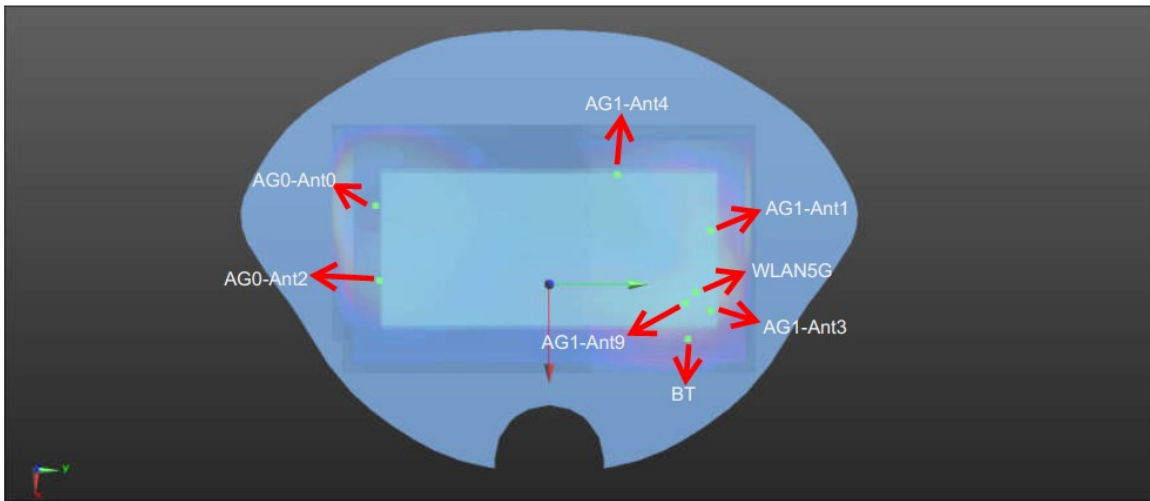


**Hotspot\_Left Side 5mm**

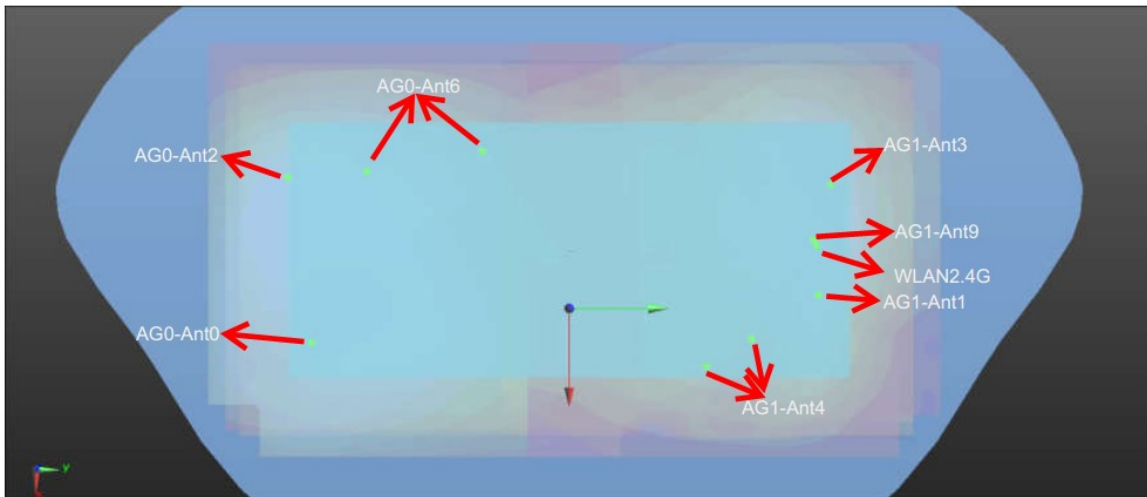


**Hotspot\_Right Side 5mm**

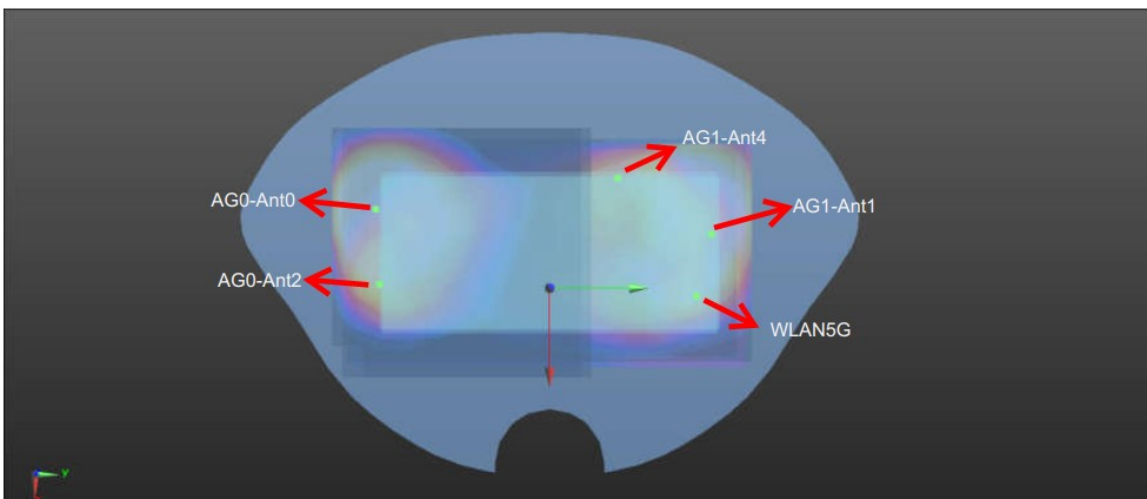




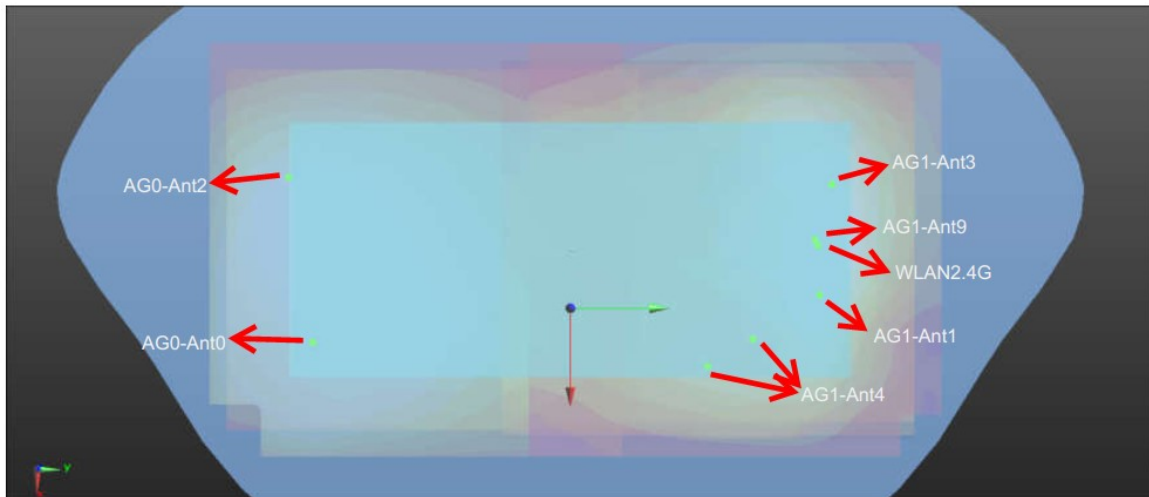
**Body\_Front 5mm**



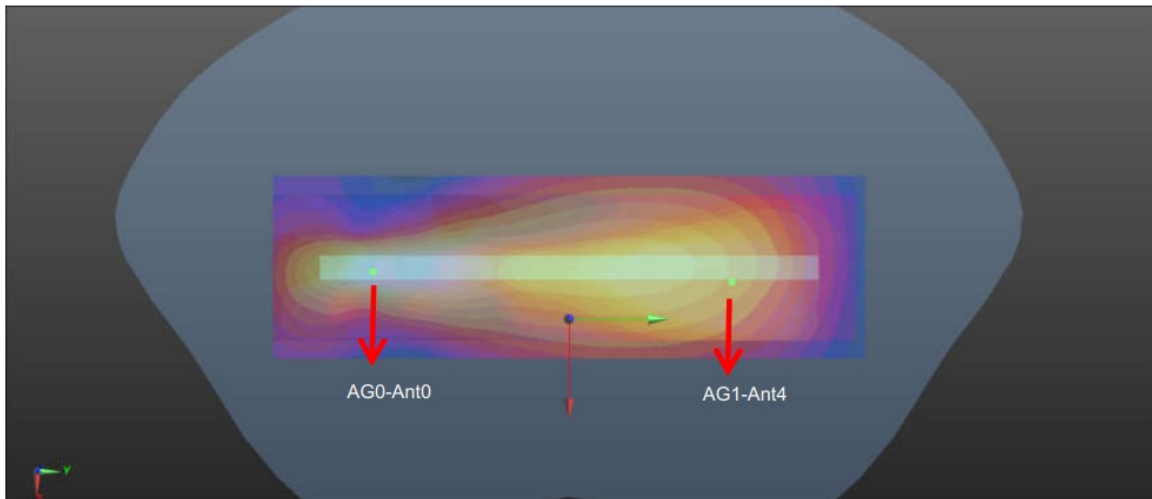
**Body\_Back 5mm**



**Extremity\_Front 0mm**



Extremity\_Back 0mm



Extremity\_Left Side 0mm



<Head>

Left Cheek												
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 1	AG0-Ant0	Left Cheek	0.362	1.28	0mm	56.90	296.20	-171.60	56.1	1.64	0.04	Not required
	AG1-Ant3		0.621		0mm	17.90	336.50	-169.90				
	WLAN		0.655		0mm							
	AG0-Ant0	Left Cheek	0.362	1.28	0mm	56.90	296.20	-171.60	55.9	1.64	0.04	Not required
	AG1-Ant3		0.621		0mm							
	WLAN		0.655		0mm	6.60	320.50	-169.40				

<Hotspot>

Front												
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 18	AG0-Ant0	Front	1.116	0.73	5mm	-55.00	-69.90	-203.00	145.0	1.85	0.02	Not required
	AG1-Ant1		0.335		5mm	-55.00	75.10	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant0	Front	1.116	0.73	5mm	-55.00	-69.90	-203.00	159.7	1.85	0.02	Not required
	AG1-Ant1		0.335		5mm							
	WLAN		0.396		5mm	5.00	78.10	-203.00				
Case 19	AG0-Ant0	Front	1.116	0.70	5mm	-55.00	-69.90	-203.00	163.8	1.82	0.01	Not required
	AG1-Ant3		0.304		5mm	-5.00	86.10	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant0	Front	1.116	0.70	5mm	-55.00	-69.90	-203.00	159.7	1.82	0.02	Not required
	AG1-Ant3		0.304		5mm							
	WLAN		0.396		5mm	5.00	78.10	-203.00				
Case 20	AG0-Ant0	Front	1.116	0.62	5mm	-55.00	-69.90	-203.00	117.9	1.74	0.02	Not required
	AG1-Ant4		0.223		5mm	-65.00	47.60	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant0	Front	1.116	0.62	5mm	-55.00	-69.90	-203.00	159.7	1.74	0.01	Not required
	AG1-Ant4		0.223		5mm							
	WLAN		0.396		5mm	5.00	78.10	-203.00				
Case 21	AG0-Ant0	Front	1.116	0.59	5mm	-55.00	-69.90	-203.00	161.6	1.71	0.01	Not required
	AG1-Ant9		0.195		5mm	-5.00	83.80	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant0	Front	1.116	0.59	5mm	-55.00	-69.90	-203.00	159.7	1.71	0.01	Not required
	AG1-Ant9		0.195		5mm							
	WLAN		0.396		5mm	5.00	78.10	-203.00				
Case 22	AG0-Ant2	Front	1.263	0.73	5mm	-5.00	-72.00	-203.00	155.4	1.99	0.02	Not required
	AG1-Ant1		0.335		5mm	-55.00	75.10	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant2	Front	1.263	0.73	5mm	-5.00	-72.00	-203.00	150.4	1.99	0.02	Not required
	AG1-Ant1		0.335		5mm							
	WLAN		0.396		5mm	5.00	78.10	-203.00				
Case 23	AG0-Ant2	Front	1.263	0.70	5mm	-5.00	-72.00	-203.00	158.1	1.96	0.02	Not required
	AG1-Ant3		0.304		5mm	-5.00	86.10	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant2	Front	1.263	0.70	5mm	-5.00	-72.00	-203.00	150.4	1.96	0.02	Not required
	AG1-Ant3		0.304		5mm							
	WLAN		0.396		5mm	5.00	78.10	-203.00				
Case 24	AG0-Ant2	Front	1.263	0.62	5mm	-5.00	-72.00	-203.00	133.8	1.88	0.02	Not required
	AG1-Ant4		0.223		5mm	-65.00	47.60	-203.00				
	WLAN		0.396		5mm							
	AG0-Ant2	Front	1.263	0.62	5mm	-5.00	-72.00	-203.00	150.4	1.88	0.02	Not required
	AG1-Ant4		0.223		5mm							
	WLAN		0.396		5mm							



Case 25	WLAN		0.396		5mm	5.00	78.10	-203.00	118.4	1.66	0.02	Not required
	AG0-Ant2	Front	1.263	1.26	5mm	-5.00	-72.00	-203.00				
	AG1		0.40	5mm	38.20	38.20	-203.00					
	WLAN			0.396	5mm							
	AG0-Ant2	Front	1.263	1.26	5mm	-5.00	-72.00	-203.00				
	AG1		0.40	5mm								
WLAN	0.396			5mm	5.00	78.10	-203.00					
Case 26	AG0-Ant2	Front	1.263	1.26	5mm	-5.00	-72.00	-203.00	155.8	1.85	0.02	Not required
	AG1-Ant9		0.59	5mm	-5.00	83.80	-203.00					
	WLAN			0.396	5mm							
	AG0-Ant2	Front	1.263	1.26	5mm	-5.00	-72.00	-203.00				
	AG1-Ant9		0.59	5mm								
	WLAN			0.396	5mm	5.00	78.10	-203.00				

Back

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 27	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00	142.5	2.65	0.03	Not required
	AG1-Ant1		1.42	5mm	-10.00	73.80	-203.00					
	WLAN			0.788	5mm							
	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00				
	AG1-Ant1		1.42	5mm								
	WLAN			0.788	5mm	-55.00	73.20	-203.00				
Case 28	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00	159.5	2.56	0.03	Not required
	AG1-Ant3		1.33	5mm	-55.00	79.90	-203.00					
	WLAN			0.788	5mm							
	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00				
	AG1-Ant3		1.33	5mm								
	WLAN			0.788	5mm	-55.00	73.20	-203.00				
Case 29	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00	137.6	2.49	0.03	Not required
	AG1-Ant4		1.26	5mm	5.00	69.70	-203.00					
	WLAN			0.788	5mm							
	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00				
	AG1-Ant4		1.26	5mm								
	WLAN			0.788	5mm	-55.00	73.20	-203.00				
Case 30	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00	124.5	2.02	0.02	Not required
	AG1		0.79	5mm	-65.00	35.00	-203.00					
	WLAN			0.788	5mm							
	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00				
	AG1		0.79	5mm								
	WLAN			0.788	5mm	-55.00	73.20	-203.00				
Case 31	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00	147.7	2.58	0.03	Not required
	AG1-Ant9		1.35	5mm	-25.00	76.70	-203.00					
	WLAN			0.788	5mm							
	AG0-Ant0	Back	1.230	1.23	5mm	5.00	-67.90	-203.00				
	AG1-Ant9		1.35	5mm								
	WLAN			0.788	5mm	-55.00	73.20	-203.00				
Case 32	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00	156.0	2.56	0.03	Not required
	AG1-Ant1		1.42	5mm	-10.00	73.80	-203.00					
	WLAN			0.788	5mm							
	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00				
	AG1-Ant1		1.42	5mm								
	WLAN			0.788	5mm	-55.00	73.20	-203.00				
Case 33	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00	155.5	2.47	0.02	Not required
	AG1-Ant3		1.33	5mm	-55.00	79.90	-203.00					
	WLAN	0.788		5mm								
	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00				



	AG1-Ant3		0.542	1.33	5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 34	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00	157.2	2.40	0.02	Not required
	AG1-Ant4		0.471		5mm	5.00	69.70	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00				
	AG1-Ant4		0.471		5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 35	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00	111.1	1.93	0.02	Not required
	AG1				5mm	-65.00	35.00	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00				
	AG1				5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 36	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00	155.2	2.49	0.03	Not required
	AG1-Ant9		0.563		5mm	-25.00	76.70	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant2	Back	1.138	1.14	5mm	-55.00	-75.60	-203.00				
	AG1-Ant9		0.563		5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 37	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00	127.7	2.03	0.02	Not required
	AG1-Ant1		0.631		5mm	-10.00	73.80	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00				
	AG1-Ant1		0.631		5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 38	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00	121.8	1.94	0.02	Not required
	AG1-Ant3		0.542		5mm	-55.00	79.90	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00				
	AG1-Ant3		0.542		5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 39	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00	131.4	1.87	0.02	Not required
	AG1-Ant4		0.471		5mm	5.00	69.70	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00				
	AG1-Ant4		0.471		5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				
Case 40	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00	124.8	1.96	0.02	Not required
	AG1-Ant9		0.563		5mm	-25.00	76.70	-203.00				
	WLAN		0.788		5mm							
	AG0-Ant6	Back	0.609	0.61	5mm	-65.00	-41.50	-203.00				
	AG1-Ant9		0.563		5mm							
	WLAN		0.788		5mm	-55.00	73.20	-203.00				

Left side

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 41	AG0-Ant0	Left side	1.067	1.07	5mm	-25.00	-41.90	-203.00	101.6	1.66	0.02	Not required
	AG1-Ant1		0.592		5mm	-25.00	59.70	-203.00				
	WLAN				5mm							
	AG0-Ant0	Left side	1.067	1.07	5mm	-25.00	-41.90	-203.00				
	AG1-Ant1		0.592		5mm							
	WLAN				5mm							
Case 42	AG0-Ant0	Left side	1.067	1.07	5mm	-25.00	-41.90	-203.00	90.2	1.65	0.02	Not required
	AG1-Ant4		0.586		5mm	-25.00	48.30	-203.00				
	WLAN				5mm							



Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
	AG0-Ant0	Left side	1.067	1.07	5mm	-25.00	-41.90	-203.00	208.8	1.65	0.01	Not required
	AG1-Ant4		0.586	0.59	5mm							
	WLAN				5mm							
Right side												
Case 43	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	208.1	1.69	0.01	Not required
	AG1-Ant1			0.59	5mm							
	WLAN		0.590		5mm							
Case 43	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	95.1	1.69	0.02	Not required
	AG1-Ant1			0.59	5mm							
	WLAN		0.590		5mm	-25.00	-57.00	-203.00				
Case 44	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	119.8	1.85	0.02	Not required
	AG1-Ant3		0.168	0.76	5mm	-25.00	-81.70	-203.00				
	WLAN		0.590		5mm							
Case 44	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	95.1	1.85	0.03	Not required
	AG1-Ant3		0.168	0.76	5mm							
	WLAN		0.590		5mm	-25.00	-57.00	-203.00				
Case 45	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	208.1	1.69	0.01	Not required
	AG1-Ant4			0.59	5mm							
	WLAN		0.590		5mm							
Case 45	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	95.1	1.69	0.02	Not required
	AG1-Ant4			0.59	5mm							
	WLAN		0.590		5mm	-25.00	-57.00	-203.00				
Case 46	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	208.1	1.69	0.01	Not required
	AG1			0.59	5mm							
	WLAN		0.590		5mm							
Case 46	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	95.1	1.69	0.02	Not required
	AG1			0.59	5mm							
	WLAN		0.590		5mm	-25.00	-57.00	-203.00				
Case 47	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	117.9	1.75	0.02	Not required
	AG1-Ant9		0.066	0.66	5mm	-41.00	-78.70	-203.00				
	WLAN		0.590		5mm							
Case 47	AG0-Ant6	Right side	1.096	1.10	5mm	-25.00	38.10	-203.00	95.1	1.75	0.02	Not required
	AG1-Ant9		0.066	0.66	5mm							
	WLAN		0.590		5mm	-25.00	-57.00	-203.00				



<Body-worn>

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Front				3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					Gap (mm)	SAR peak location (mm)						
						X	Y	Z				
Case 59	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	145.0	2.08	0.02	Not required
	AG1-Ant1		0.496	0.96	5mm	-55.00	75.10	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	159.7	2.08	0.02	Not required
	AG1-Ant1		0.496	0.96	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 60	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	163.8	2.10	0.02	Not required
	AG1-Ant3		0.516	0.98	5mm	-5.00	86.10	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	159.7	2.10	0.02	Not required
	AG1-Ant3		0.516	0.98	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 61	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	117.9	2.05	0.02	Not required
	AG1-Ant4		0.466	0.93	5mm	-65.00	47.60	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	159.7	2.05	0.02	Not required
	AG1-Ant4		0.466	0.93	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 62	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	161.6	1.90	0.02	Not required
	AG1-Ant9		0.322	0.79	5mm	-5.00	83.80	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant0	Front	1.116	1.12	5mm	-55.00	-69.90	-203.00	159.7	1.90	0.02	Not required
	AG1-Ant9		0.322	0.79	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 63	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	167.5	2.20	0.02	Not required
	AG1-Ant1		0.496	0.96	5mm	75.10	75.10	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	150.4	2.20	0.02	Not required
	AG1-Ant1		0.496	0.96	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 64	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	158.1	2.22	0.02	Not required
	AG1-Ant3		0.516	0.98	5mm	-5.00	86.10	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	150.4	2.22	0.02	Not required
	AG1-Ant3		0.516	0.98	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 65	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	133.8	2.17	0.02	Not required
	AG1-Ant4		0.466	0.93	5mm	-65.00	47.60	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	150.4	2.17	0.02	Not required
	AG1-Ant4		0.466	0.93	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 66	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	112.0	1.70	0.02	Not required
	AG1			0.46	5mm	15.00	38.20	-203.00				
	WLAN		0.463		5mm							
	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	150.4	1.70	0.01	Not required
	AG1			0.46	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Case 67	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	155.8	2.02	0.02	Not required
	AG1-Ant9		0.322	0.79	5mm	-5.00	83.80	-203.00				
	WLAN		0.463		5mm							



Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
	AG0-Ant2	Front	1.236	1.24	5mm	-5.00	-72.00	-203.00	150.4	2.02	0.02	Not required
	AG1-Ant9		0.322	0.79	5mm							
	WLAN		0.463		5mm	5.00	78.10	-203.00				
Back												
Case 68	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	142.5	2.79	0.03	Not required
	AG1-Ant1		0.862	1.56	5mm	-10.00	73.80	-203.00				
	WLAN		0.697		5mm							
Case 68	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	153.3	2.79	0.03	Not required
	AG1-Ant1		0.862	1.56	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 69	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	159.5	2.71	0.03	Not required
	AG1-Ant3		0.774	1.47	5mm	-55.00	79.90	-203.00				
	WLAN		0.697		5mm							
Case 69	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	153.3	2.71	0.03	Not required
	AG1-Ant3		0.774	1.47	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 70	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	137.6	2.74	0.03	Not required
	AG1-Ant4		0.813	1.51	5mm	5.00	69.70	-203.00				
	WLAN		0.697		5mm							
Case 70	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	153.3	2.74	0.03	Not required
	AG1-Ant4		0.813	1.51	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 71	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	124.5	1.93	0.02	Not required
	AG1			0.70	5mm	-65.00	35.00	-203.00				
	WLAN		0.697		5mm							
Case 71	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	153.3	1.93	0.02	Not required
	AG1-Ant5			0.70	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 72	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	147.7	2.78	0.03	Not required
	AG1-Ant9		0.847	1.54	5mm	-25.00	76.70	-203.00				
	WLAN		0.697		5mm							
Case 72	AG0-Ant0	Front	1.234	1.23	5mm	5.00	-67.90	-203.00	153.3	2.78	0.03	Not required
	AG1-Ant9		0.847	1.54	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 73	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	156.0	2.73	0.03	Not required
	AG1-Ant1		0.862	1.56	5mm	-10.00	73.80	-203.00				
	WLAN		0.697		5mm							
Case 73	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	148.8	2.73	0.03	Not required
	AG1-Ant1		0.862	1.56	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 74	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	155.5	2.64	0.03	Not required
	AG1-Ant3		0.774	1.47	5mm	-55.00	79.90	-203.00				
	WLAN		0.697		5mm							
Case 74	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	148.8	2.64	0.03	Not required
	AG1-Ant3		0.774	1.47	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 75	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	157.2	2.68	0.03	Not required
	AG1-Ant4		0.813	1.51	5mm	5.00	69.70	-203.00				
	WLAN		0.697		5mm							
Case 75	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	148.8	2.68	0.03	Not required
	AG1-Ant4		0.813	1.51	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 76	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	111.1	1.86	0.02	Not required
	AG1			0.70	5mm	-65.00	35.00	-203.00				





	WLAN		0.697		5mm							
	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	148.8	1.86	0.02	Not required
	AG1			0.70	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 77	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	155.2	2.71	0.03	Not required
	AG1-Ant9		0.847	1.54	5mm	-25.00	76.70	-203.00				
	WLAN		0.697		5mm							
	AG0-Ant2	Front	1.167	1.17	5mm	-55.00	-75.60	-203.00	148.8	2.71	0.03	Not required
	AG1-Ant9		0.847	1.54	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 78	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	127.7	2.16	0.02	Not required
	AG1-Ant1		0.862	1.56	5mm	-10.00	73.80	-203.00				
	WLAN		0.697		5mm							
	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	115.1	2.16	0.03	Not required
	AG1-Ant1		0.862	1.56	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 79	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	121.8	2.07	0.02	Not required
	AG1-Ant3		0.774	1.47	5mm	-55.00	79.90	-203.00				
	WLAN		0.697		5mm							
	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	115.1	2.07	0.03	Not required
	AG1-Ant3		0.774	1.47	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 80	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	131.4	2.11	0.02	Not required
	AG1-Ant4		0.813	1.51	5mm	5.00	69.70	-203.00				
	WLAN		0.697		5mm							
	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	115.1	2.11	0.03	Not required
	AG1-Ant4		0.813	1.51	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				
Case 81	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	124.8	2.15	0.03	Not required
	AG1-Ant9		0.847	1.54	5mm	-25.00	76.70	-203.00				
	WLAN		0.697		5mm							
	AG0-Ant6	Front	0.601	0.60	5mm	-65.00	-41.50	-203.00	115.1	2.15	0.03	Not required
	AG1-Ant9		0.847	1.54	5mm							
	WLAN		0.697		5mm	-55.00	73.20	-203.00				



<Extremity>

Front												
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 47	AG0-Ant0	Front	2.774	2.77	0mm	-70.00	-68.60	-203.00	151.7	5.85	0.09	Not required
	AG1-Ant1		2.195		0mm	-45.00	81.00	-203.00				
	WLAN		0.877		0mm							
	AG0-Ant0	Front	2.774	2.77	0mm	-70.00	-68.60	-203.00	163.7	5.85	0.09	Not required
	AG1-Ant1		2.195		0mm							
	WLAN		0.877		0mm	-15.00	85.60	-203.00				
Case 48	AG0-Ant0	Front	2.774	2.77	0mm	-70.00	-68.60	-203.00	115.8	4.59	0.08	Not required
	AG1-Ant4		0.940		0mm	-65.00	47.10	-203.00				
	WLAN		0.877		0mm							
	AG0-Ant0	Front	2.774	2.77	0mm	-70.00	-68.60	-203.00	163.7	4.59	0.06	Not required
	AG1-Ant4		0.940		0mm							
	WLAN		0.877		0mm	-15.00	85.60	-203.00				
Case 49	AG0-Ant2	Front	2.874	2.87	0mm	-15.00	-76.40	-203.00	160.2	5.95	0.09	Not required
	AG1-Ant1		2.195		0mm	-45.00	81.00	-203.00				
	WLAN		0.877		0mm							
	AG0-Ant2	Front	2.874	2.87	0mm	-15.00	-76.40	-203.00	162.0	5.95	0.09	Not required
	AG1-Ant1		2.195		0mm							
	WLAN		0.877		0mm	-15.00	85.60	-203.00				
Case 50	AG0-Ant2	Front	2.874	2.87	0mm	-15.00	-76.40	-203.00	133.2	4.69	0.08	Not required
	AG1-Ant4		0.940		0mm	-65.00	47.10	-203.00				
	WLAN		0.877		0mm							
	AG0-Ant2	Front	2.874	2.87	0mm	-15.00	-76.40	-203.00	162.0	4.69	0.06	Not required
	AG1-Ant4		0.940		0mm							
	WLAN		0.877		0mm	-15.00	85.60	-203.00				



Back												
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 51	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	147.0	5.91	0.10	Not required
	AG1-Ant1		2.468	3.15	0mm	-10.00	75.60	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	152.3	5.91	0.09	Not required
	AG1-Ant1		2.468	3.15	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					
Case 52	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	163.1	4.22	0.05	Not required
	AG1-Ant3		0.773	1.45	0mm	-55.00	81.10	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	152.3	4.22	0.06	Not required
	AG1-Ant3		0.773	1.45	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					
Case 53	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	124.6	5.38	0.10	Not required
	AG1-Ant4		1.930	2.61	0mm	15.00	53.60	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	152.3	5.38	0.08	Not required
	AG1-Ant4		1.930	2.61	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					
Case 54	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	152.8	5.09	0.08	Not required
	AG1-Ant9		1.643	2.32	0mm	-35.00	76.90	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant0	Back	2.767	2.77	0mm	5.00	-70.60	-203.00	152.3	5.09	0.08	Not required
	AG1-Ant9		1.643	2.32	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					
Case 55	AG0-Ant2	Back	2.395	2.40	0mm	-40.00	-75.60	-203.00	154.1	5.54	0.08	Not required
	AG1-Ant1		2.468	3.15	0mm	-10.00	75.60	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant2	Back	2.395	2.40	0mm	-40.00	-75.60	-203.00	145.8	5.54	0.09	Not required
	AG1-Ant1		2.468	3.15	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					
Case 56	AG0-Ant2	Back	2.395	2.40	0mm	-40.00	-75.60	-203.00	140.4	5.00	0.08	Not required
	AG1-Ant4		1.930	2.61	0mm	15.00	53.60	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant2	Back	2.395	2.40	0mm	-40.00	-75.60	-203.00	145.8	5.00	0.08	Not required
	AG1-Ant4		1.930	2.61	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					
Case 57	AG0-Ant2	Back	2.395	2.40	0mm	-40.00	-75.60	-203.00	152.6	4.72	0.07	Not required
	AG1-Ant9		1.643	2.32	0mm	-35.00	76.90	-203.00				
	WLAN		0.679	0mm								
	AG0-Ant2	Back	2.395	2.40	0mm	-40.00	-75.60	-203.00	145.8	4.72	0.07	Not required
	AG1-Ant9		1.643	2.32	0mm							
	WLAN		0.679	0mm	-55.00	69.40	-203.00					

Left side												
Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 58	AG0-Ant0	Left side	1.894	1.89	0mm	-25.00	-34.20	-203.00	95.0	4.27	0.09	Not required
	AG1-Ant4		2.379	2.38	0mm	-25.00	60.80	-203.00				

**17.7 SAR Peak Locations of Maximum Report SAR**

**General Note:**

1. SAR Peak Locations of maximum report SAR corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.
3. WWAN antenna always chose the worst Axis among each frequency range (750MHz/835MHz/1750MHz/1900MHz /2300MHz/2600MHz/3500MHz/3700MHz/5GHz/6GHz) within the selected antenna for each exposure position.

**<Head>**

Left Cheek											
Freq.	Support_Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13/17	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:0.7 Y:295.8 Z:-166.9					X:57.4 Y:261.9 Z:-170.7			
835MHz	GSM850,3TX WCDMA,V LTE,Band,5/26 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-2.4 Y:297.6 Z:-166.5					X:53.9 Y:264.0 Z:-171.4			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:5.3 Y:310 Z:-168.9					X:60.2 Y:243.1 Z:-167.8	X:58.3 Y:244.2 Z:-168.4		
1900MHz	GSM1900,3TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:6.9 Y:309.1 Z:-169					X:56.9 Y:296.2 Z:-171.6	X:55.8 Y:262.9 Z:-171		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:6.6 Y:320.5 Z:-169.4	
2450MHz	Bluetooth	Max,SAR									NA
		Axis(X,Y,Z)									X:32.4 Y:339.1 Z:-169.9
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-3 Y:314.9 Z:-167.9					X:50.4 Y:249.1 Z:-170.4	X:62.9 Y:298.3 Z:-170.4		
3500/3700 MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA	NA	NA				
		Axis(X,Y,Z)		X:17.9 Y:336.5 Z:-169.9	X:4.8 Y:287.7 Z:-166.8	X:54.1 Y:303.6 Z:-171.8	X:20.1 Y:323.8 Z:-170.6				
5250/5600 /5750MHz	5/6GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:17.3 Y:336.8 Z:-169.8	



<Hotspot>

Front											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-55 Y:83.1 Z:-203					X:-55 Y:-75.6 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-55 Y:84.6 Z:-203					X:-70 Y:-81.8 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-55 Y:87 Z:-203					X:-55 Y:-69.9 Z:-203	X:-10 Y:-79.2 Z:-203		
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-40 Y:89.2 Z:-203					X:-55 Y:-72.9 Z:-203	X:-10 Y:-78.3 Z:-203		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:-25 Y:91.1 Z:-203	
2450MHz	Bluetooth	Max,SAR									NA
		Axis(X,Y,Z)									X:5 Y:76.5 Z:-203
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-55 Y:75.1 Z:-203					X:-45 Y:-80.7 Z:-203	X:-5 Y:-72 Z:-203		
3500/3700 MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA	NA	NA				
		Axis(X,Y,Z)		X:-5 Y:86.1 Z:-203	X:-65 Y:47.6 Z:-203	X:-5 Y:-66.2 Z:-203	X:-5 Y:83.8 Z:-203				
5250/5600/ 5750MHz	5/6GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:5 Y:78.1 Z:-203	

Back											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:5 Y:75.1 Z:-203					X:-10 Y:-81.3 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-10 Y:73.8 Z:-203					X:5 Y:-76.4 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-10 Y:79 Z:-203					X:5 Y:-67.9 Z:-203	X:-55 Y:-75.6 Z:-203		
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-10 Y:76.6 Z:-203					X:5 Y:-68.2 Z:-203	X:-55 Y:-76.5 Z:-203		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:-25 Y:83.2 Z:-203	
2450MHz	Bluetooth	Max,SAR									NA
		Axis(X,Y,Z)									X:-55 Y:71.8 Z:-203
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-5 Y:76 Z:-203					X:-5 Y:-80.3 Z:-203	X:-45 Y:-78 Z:-203		
3500/3700 MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA	NA	NA				
		Axis(X,Y,Z)		X:-55 Y:79.9 Z:-203	X:5 Y:69.7 Z:-203	X:-65 Y:-41.5 Z:-203	X:-25 Y:76.7 Z:-203				
5250/5600 /5750MHz	5/6GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:-55 Y:73.2 Z:-203	



Left Side											
Freq.	Support_Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:59.7 Z:-203					X:-25 Y:-56.7 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:59.7 Z:-203					X:-25 Y:-56.7 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:68.4 Z:-203					X:-25 Y:-64.5 Z:-203			
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:69.3 Z:-203					X:-25 Y:-71.7 Z:-203			
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR									
		Axis(X,Y,Z)									
2450MHz	Bluetooth	Max,SAR									
		Axis(X,Y,Z)									
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:62.2 Z:-203					X:-25 Y:-41.9 Z:-203			
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR			NA						
		Axis(X,Y,Z)			X:-25 Y:48.3 Z:-203						
5250/5600/5750MHz	5/6GWLAN	Max,SAR									
		Axis(X,Y,Z)									

Right Side											
Freq.	Support_Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR									
		Axis(X,Y,Z)									
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR									
		Axis(X,Y,Z)									
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR						NA			
		Axis(X,Y,Z)						X:-25 Y:61.5 Z:-203			
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR						NA			
		Axis(X,Y,Z)						X:-25 Y:63 Z:-203			
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR							NA		
		Axis(X,Y,Z)							X:-25 Y:-75.6 Z:-203		
2450MHz	Bluetooth	Max,SAR									NA
		Axis(X,Y,Z)									X:-25 Y:-69.9 Z:-203
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR						NA			
		Axis(X,Y,Z)						X:-25 Y:57 Z:-203			
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR		NA		NA	NA				
		Axis(X,Y,Z)		X:-25 Y:-81.7 Z:-203		X:-25 Y:38.1 Z:-203	X:-41 Y:-78.7 Z:-203				
5250/5600/5750MHz	5/6GWLAN	Max,SAR								NA	
		Axis(X,Y,Z)								X:-25 Y:-57 Z:-203	



<Body-worn>

Front											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-55 Y:83.1 Z:-203					X:-55 Y:-75.6 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-55 Y:84.6 Z:-203					X:-70 Y:-81.8 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-55 Y:87 Z:-203					X:-55 Y:-69.9 Z:-203	X:-10 Y:-79.2 Z:-203		
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-40 Y:89.2 Z:-203					X:-55 Y:-72.9 Z:-203	X:-10 Y:-78.3 Z:-203		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR									NA
		Axis(X,Y,Z)								X:-25 Y:91.1 Z:-203	
2450MHz	Bluetooth	Max,SAR									NA
		Axis(X,Y,Z)									X:5 Y:76.5 Z:-203
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-55 Y:75.1 Z:-203					X:-45 Y:-80.7 Z:-203	X:-5 Y:-72 Z:-203		
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA	NA	NA				
		Axis(X,Y,Z)		X:-5 Y:86.1 Z:-203	X:-65 Y:47.6 Z:-203	X:-5 Y:-66.2 Z:-203	X:-5 Y:83.8 Z:-203				
5250/5600/5750MHz	5/6GWLAN	Max,SAR									NA
		Axis(X,Y,Z)								X:5 Y:78.1 Z:-203	

Back											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:5 Y:75.1 Z:-203					X:-10 Y:-81.3 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-10 Y:73.8 Z:-203					X:5 Y:-76.4 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-10 Y:79 Z:-203					X:5 Y:-67.9 Z:-203	X:-55 Y:-75.6 Z:-203		
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-10 Y:76.6 Z:-203					X:5 Y:-68.2 Z:-203	X:-55 Y:-76.5 Z:-203		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR									NA
		Axis(X,Y,Z)								X:-25 Y:83.2 Z:-203	
2450MHz	Bluetooth	Max,SAR									NA
		Axis(X,Y,Z)									X:-55 Y:71.8 Z:-203
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-5 Y:76 Z:-203					X:-5 Y:-80.3 Z:-203	X:-45 Y:-78 Z:-203		
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA	NA	NA				
		Axis(X,Y,Z)		X:-55 Y:79.9 Z:-203	X:5 Y:69.7 Z:-203	X:-65 Y:-41.5 Z:-203	X:-25 Y:76.7 Z:-203				
5250/5600/5750MHz	5/6GWLAN	Max,SAR									NA
		Axis(X,Y,Z)								X:-55 Y:73.2 Z:-203	



<Extremity>

Front											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-55 Y:83.1 Z:-203					X:-70 Y:-70.4 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-55 Y:81.9 Z:-203					X:-70 Y:-68.6 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-55 Y:86 Z:-203					X:-55 Y:-72.6 Z:-203	X:-10 Y:-80.4 Z:-203		
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-40 Y:84.6 Z:-203					X:-55 Y:-72 Z:-203	X:-10 Y:-78.3 Z:-203		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR									NA
		Axis(X,Y,Z)									X:-15 Y:85.6 Z:-203
2450MHz	Bluetooth	Max,SAR									
		Axis(X,Y,Z)									
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-45 Y:81 Z:-203					X:-45 Y:-80.1 Z:-203	X:-15 Y:-76.4 Z:-203		
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA						
		Axis(X,Y,Z)		X:5 Y:84.7 Z:-203	X:-65 Y:47.1 Z:-203						
5250/5600/5750MHz	5/6GWLAN	Max,SAR									NA
		Axis(X,Y,Z)									X:-5 Y:85.6 Z:-203

Back											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-10 Y:76.2 Z:-203					X:5 Y:-73.3 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-10 Y:75.6 Z:-203					X:5 Y:-70.6 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-10 Y:76.9 Z:-203					X:5 Y:-73.1 Z:-203	X:-40 Y:-75.6 Z:-203		
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-10 Y:76.8 Z:-203					X:5 Y:-70.9 Z:-203	X:-40 Y:-75.9 Z:-203		
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR									NA
		Axis(X,Y,Z)									X:-25 Y:81.8 Z:-203
2450MHz	Bluetooth	Max,SAR									
		Axis(X,Y,Z)									
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA	NA		
		Axis(X,Y,Z)	X:-5 Y:75.9 Z:-203					X:-5 Y:-80.3 Z:-203	X:-35 Y:-78.8 Z:-203		
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR		NA	NA		NA				
		Axis(X,Y,Z)		X:-55 Y:81.1 Z:-203	X:15 Y:53.6 Z:-203		X:-35 Y:76.9 Z:-203				
5250/5600/5750MHz	5/6GWLAN	Max,SAR									NA
		Axis(X,Y,Z)									X:-55 Y:69.4 Z:-203
NFC	Max,SAR		NA								
		Axis(X,Y,Z)	X:8 Y:69.8 Z:-184								





Left Side											
Freq.	Support,Band		Ant 1	Ant 3	Ant 4	Ant 6	Ant 9	Ant 0	Ant 2	Ant 8+7	Ant 8
750MHz	LTE,Band,12/13	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:55.8 Z:-203					X:-25 Y:-37.8 Z:-203			
835MHz	GSM850,4TX WCDMA,V LTE,Band,5 FR1,n5	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:56 Z:-203					X:-25 Y:-34.2 Z:-203			
1750MHz	WCDMA,IV LTE,Band,4/66 FR1,n66	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:63.8 Z:-203					X:-25 Y:-69.6 Z:-203			
1900MHz	GSM1900,4TX WCDMA,II LTE,Band,2/25 FR1,n2	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:66.3 Z:-203					X:-25 Y:-73.2 Z:-203			
2300MHz		Max,SAR									
		Axis(X,Y,Z)									
2450MHz	2.4GWLAN	Max,SAR									
		Axis(X,Y,Z)									
2450MHz	Bluetooth	Max,SAR									
		Axis(X,Y,Z)									
2600MHz	LTE,Band,7/38/41 FR1,n7/38/41	Max,SAR	NA					NA			
		Axis(X,Y,Z)	X:-25 Y:64 Z:-203					X:-17 Y:-58.5 Z:-203			
3500/3700MHz	LTE,Band,42 FR1,n78	Max,SAR			NA						
		Axis(X,Y,Z)			X:-25 Y:60.8 Z:-203						
5250/5600/5750MHz	5/6GWLAN	Max,SAR									
		Axis(X,Y,Z)									

## **18. Supplemental Tuner Tests Results**

### **General Note:**

1. This device implements impedance tuner (250 states) antenna tuning techniques in the WCDMA V, LTE Band 2/4/5/7/12/13/17/25/26/66/38/41, and 5GNR n2/5/7/66 for ANT0.
2. LTE B17 / B5 / B2 / B4 / B38 SAR test was covered by LTE B12 / B26 / B25 / B66 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. Per 2019, April TCBC Workshop titled "RF Exposure Procedures", the following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions.
  - 1) SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
  - 2) Total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
  - 3) The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
  - 4) Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
  - 5) If any single point SAR measurement result is  $> 1.2$  W/kg for 1gSAR (or  $> 3.0$  W/kg for 10gSAR) for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
4. The above test procedures were followed to demonstrate that the SAR results in Section 16 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
5. To evaluate all of the tuner states, the 250 tuner states for ANT0 is divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was  $> 1.2$  W/kg or 10g SAR was  $> 3.0$  W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all tuner states.
6. According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions.
7. According to KDB 648474 D04 v01r03, this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
8. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

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

Please refer to Appendix G.

**Test Engineer :** Hank Huang, Kevin Xu, David Dai, Bin He



## **19. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is  $< 1.5$  W/kg and the measured 10-g SAR within a frequency band is  $< 3.75$  W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **20. References**

- [1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, “SAR Measurement Requirements for 100 MHz to 6 GHz”, Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [10] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015
- [11] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015
- [12] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015
- [13] FCC KDB 941225 D06 v02r01, “SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities”, Oct 2015.
- [14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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