



**FCC SAR Test Report**

**Report No. : FA352602-01**

2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 1	DSI 2	650000	3840	1	20.26	21.50	1.330	-	-	0.07	0.329	0.438		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	650000	3750	1	23.65	25.00	1.365	-	-	-0.09	0.166	0.227		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	650000	3750	1	23.65	25.00	1.365	-	-	-0.11	0.093	0.127		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	650000	3750	1	23.65	25.00	1.365	-	-	0.08	0.069	0.094		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	650000	3750	1	23.65	25.00	1.365	-	-	-0.05	0.008	0.011		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 2	650000	3750	1	23.60	25.00	1.380	-	-	-0.08	0.142	0.196		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 2	650000	3750	1	23.60	25.00	1.380	-	-	-0.18	0.075	0.104		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 2	650000	3750	1	23.60	25.00	1.380	-	-	-0.12	0.061	0.084		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 2	650000	3750	1	23.60	25.00	1.380	-	-	0.04	0.006	0.008		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 2	650000	3750	1	22.06	23.00	1.242	-	-	0.18	0.193	0.240		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 2	650000	3750	1	22.06	23.00	1.242	-	-	0.18	0.223	0.277		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 2	650000	3750	1	22.06	23.00	1.242	-	-	0.11	0.296	0.368		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 2	650000	3750	1	22.06	23.00	1.242	-	-	0.07	0.140	0.174		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 2	650000	3750	1	21.86	23.00	1.300	-	-	-0.17	0.245	0.319		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 2	650000	3750	1	21.86	23.00	1.300	-	-	-0.19	0.258	0.335		
14	2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 2	650000	3750	1	21.86	23.00	1.300	-	-	0.11	0.364	<b>0.473</b>	
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 2	650000	3750	1	21.86	23.00	1.300	-	-	0	0.181	0.235		

Plot No.	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)	Deviation
<b>WLAN2.4GHz/Bluetooth</b>																			
	1st	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone	39	2441	1	12.50	14.00	1.413	77.03	1.298	-0.05	0.398	0.730	1%
15	2nd	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Standalone	39	2441	1	12.50	14.00	1.413	77.03	1.298	0.11	0.402	<b>0.737</b>	
	1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	11	2462	1	15.90	17.00	1.288	97.46	1.026	-0.08	0.839	1.109	-4%
16	2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	11	2462	1	15.90	17.00	1.288	97.46	1.026	-0.02	0.810	<b>1.071</b>	
<b>WLAN5GHz</b>																			
	1st	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	58	5290	1	11.72	13.00	1.343	89.6	1.116	-0.14	0.758	1.136	-19%
17	2nd	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	58	5290	1	11.72	13.00	1.343	89.6	1.116	-0.15	0.638	<b>0.956</b>	
	1st	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	122	5610	1	13.28	15.00	1.486	89.6	1.116	-0.11	0.664	1.101	-20%
18	2nd	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	122	5610	1	13.28	15.00	1.486	89.6	1.116	0.08	0.555	<b>0.920</b>	
	1st	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	155	5775	1	13.28	15.00	1.486	89.6	1.116	0.15	0.592	0.982	-22%
19	2nd	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	155	5775	1	13.28	15.00	1.486	89.6	1.116	-0.16	0.484	<b>0.803</b>	



16.2 Hotspot SAR

Plot No.	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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation
<b>835MHz</b>																					
	1st	GSM850	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	DSI 7	251	848.8	1	27.41	29.00	1.442	0.12	0.866	1.249	-2%
20	2nd	GSM850	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	DSI 7	251	848.8	1	27.41	29.00	1.442	0.13	0.845	1.219	-2%
	1st	GSM850	-	-	-	-	GPRS 2 Tx slots	Bottom Side	5mm	Ant 0	DSI 7	189	836.4	1	27.47	29.00	1.422	0.17	0.513	0.730	9%
	2nd	GSM850	-	-	-	-	GPRS 2 Tx slots	Bottom Side	5mm	Ant 0	DSI 7	189	836.4	1	27.47	29.00	1.422	0.11	0.566	0.805	9%
	1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4233	846.6	1	20.82	22.20	1.374	0.14	0.844	1.160	-5%
21	2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4233	846.6	1	20.82	22.20	1.374	-0.01	0.806	1.107	-5%
	1st	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	DSI 7	26865	831.5	1	21.28	22.70	1.387	0.02	0.415	0.576	-13%
	2nd	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	DSI 7	26865	831.5	1	21.28	22.70	1.387	0.03	0.368	0.510	-13%
	1st	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI 7	26865	831.5	1	21.57	23.00	1.390	0.13	0.844	1.173	1%
22	2nd	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI 7	26865	831.5	1	21.57	23.00	1.390	0.11	0.848	1.179	1%
	1st	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	DSI 7	166300	831.5	1	21.89	23.00	1.291	-0.09	0.446	0.576	13%
	2nd	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	DSI 7	166300	831.5	1	21.89	23.00	1.291	0.06	0.511	0.660	13%
	1st	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI 7	166300	831.5	1	22.49	23.50	1.262	-0.04	1.010	1.274	-1%
23	2nd	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	DSI 7	166300	831.5	1	22.49	23.50	1.262	0.05	1.000	1.262	-1%
	1st	FR1 n26	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	DSI 7	166300	831.5	1	22.49	23.50	1.262	-0.18	0.793	1.001	-4%
	2nd	FR1 n26	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	DSI 7	166300	831.5	1	22.49	23.50	1.262	0.06	0.766	0.967	-4%
<b>1900MHz</b>																					
	1st	GSM1900	-	-	-	-	GPRS 2 Tx slots	Bottom Side	5mm	Ant 0	DSI 7	661	1880	1	22.10	23.50	1.380	0.03	0.924	1.275	0%
24	2nd	GSM1900	-	-	-	-	GPRS 2 Tx slots	Bottom Side	5mm	Ant 0	DSI 7	661	1880	1	22.10	23.50	1.380	-0.01	0.919	1.269	0%
	1st	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	DSI 7	661	1880	1	22.10	23.50	1.380	-0.01	0.663	0.915	-2%
	2nd	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	DSI 7	661	1880	1	22.10	23.50	1.380	-0.12	0.651	0.899	-2%
	1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	9400	1880	1	14.64	16.00	1.368	-0.13	0.843	1.153	-10%
25	2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	9400	1880	1	14.64	16.00	1.368	0.03	0.763	1.044	-10%
	1st	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	26340	1880	1	15.91	17.00	1.285	-0.06	0.460	0.591	4%
	2nd	LTE Band 2	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	18900	1880	1	15.91	17.00	1.285	0.19	0.478	0.614	4%
	1st	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	26140	1860	1	15.19	16.50	1.352	0.06	0.865	1.170	-9%
26	2nd	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 7	18900	1880	1	15.19	16.50	1.352	-0.02	0.796	1.076	-9%



Plot No.	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 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation
<b>2600MHz</b>																							
	2nd	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI 7	21100	2535	1	12.35	13.50	1.303	-	-	-0.16	0.157	0.205	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI 7	21100	2535	1	12.35	13.50	1.303	-	-	-0.02	0.281	0.366	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI 7	21100	2535	1	12.35	13.50	1.303	-	-	0.17	0.134	0.175	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	21100	2535	1	12.35	13.50	1.303	-	-	-0.1	0.445	0.580	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI 7	21100	2535	1	12.31	13.50	1.315	-	-	-0.19	0.176	0.231	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	DSI 7	21100	2535	1	12.31	13.50	1.315	-	-	-0.03	0.292	0.384	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI 7	21100	2535	1	12.31	13.50	1.315	-	-	-0.12	0.143	0.188	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	DSI 7	21100	2535	1	12.31	13.50	1.315	-	-	-0.07	0.454	0.597	
	1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	21100	2535	1	18.00	19.50	1.413	-	-	0.12	0.820	1.158	
27	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	21100	2535	1	18.00	19.50	1.413	-	-	0.18	0.770	<b>1.088</b>	-6%
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI 7	40620	2593	1	13.80	14.50	1.175	62.9	1.006	0.19	0.173	0.204	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI 7	40620	2593	1	13.80	14.50	1.175	62.9	1.006	0.14	0.326	0.385	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI 7	40620	2593	1	13.80	14.50	1.175	62.9	1.006	0.03	0.163	0.193	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	40620	2593	1	13.80	14.50	1.175	62.9	1.006	0.18	0.521	0.616	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	39750	2506	1	13.76	14.50	1.186	62.9	1.006	-0.04	0.502	0.599	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	40185	2549.5	1	13.78	14.50	1.180	62.9	1.006	-0.14	0.535	0.635	
	2nd	LTE Band 38C	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	37901+38099	2585.1+2604.9	1	13.56	14.50	1.242	62.9	1.006	0.12	0.488	0.610	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	41055	2636.5	1	13.75	14.50	1.189	62.9	1.006	0.02	0.485	0.580	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	41490	2680	1	13.72	14.50	1.197	62.9	1.006	0.14	0.420	0.506	
	2nd	LTE Band 41 PC2	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI 7	40185	2549.5	1	15.57	16.10	1.130	42.9	1.009	-0.14	0.525	0.598	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI 7	40620	2593	1	13.73	14.50	1.194	62.9	1.006	0.1	0.158	0.190	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	DSI 7	40620	2593	1	13.73	14.50	1.194	62.9	1.006	0.12	0.297	0.357	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI 7	40620	2593	1	13.73	14.50	1.194	62.9	1.006	-0.1	0.149	0.179	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	DSI 7	40620	2593	1	13.73	14.50	1.194	62.9	1.006	-0.09	0.479	0.575	
	2nd	LTE Band 41	20M	QPSK	100	0	-	Top Side	5mm	Ant 4	DSI 7	40620	2593	1	13.71	14.50	1.199	62.9	1.006	-0.19	0.468	0.565	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	40620	2593	1	19.85	21.00	1.303	62.9	1.006	-0.04	0.821	1.076	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	39750	2506	1	19.70	21.00	1.349	62.9	1.006	-0.1	0.707	0.959	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	40185	2549.5	1	19.81	21.00	1.315	62.9	1.006	-0.06	0.790	1.045	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	41055	2636.5	1	19.62	21.00	1.374	62.9	1.006	0.07	0.711	0.983	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 7	41490	2680	1	19.35	21.00	1.462	62.9	1.006	0.06	0.722	1.062	
28	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	40620	2593	1	19.85	21.00	1.303	62.9	1.006	0.13	0.959	<b>1.257</b>	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	40620	2593	2	19.85	21.00	1.303	62.9	1.006	0.02	0.748	0.981	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	39750	2506	1	19.70	21.00	1.349	62.9	1.006	0.02	0.860	1.167	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	40185	2549.5	1	19.81	21.00	1.315	62.9	1.006	0.07	0.899	1.189	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	41055	2636.5	1	19.62	21.00	1.374	62.9	1.006	-0.19	0.854	1.180	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	41490	2680	1	19.35	21.00	1.462	62.9	1.006	0.01	0.843	1.240	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 7	40620	2593	1	19.85	21.00	1.303	62.9	1.006	0.16	0.454	0.595	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	40620	2593	1	19.85	21.00	1.303	62.9	1.006	-0.04	0.741	0.971	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	39750	2506	1	19.70	21.00	1.349	62.9	1.006	-0.14	0.649	0.881	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	40185	2549.5	1	19.81	21.00	1.315	62.9	1.006	0	0.687	0.909	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	41055	2636.5	1	19.62	21.00	1.374	62.9	1.006	-0.16	0.639	0.883	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	DSI 7	41490	2680	1	19.35	21.00	1.462	62.9	1.006	-0.05	0.632	0.930	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.07	0.784	1.037	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 7	39750	2506	1	19.80	21.00	1.318	62.9	1.006	-0.13	0.675	0.895	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 7	40185	2549.5	1	19.69	21.00	1.352	62.9	1.006	0.14	0.754	1.026	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 7	41055	2636.5	1	19.55	21.00	1.396	62.9	1.006	-0.13	0.679	0.954	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 7	41490	2680	1	19.43	21.00	1.435	62.9	1.006	-0.16	0.690	0.996	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.12	0.922	1.220	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 7	39750	2506	1	19.80	21.00	1.318	62.9	1.006	-0.05	0.821	1.089	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 7	40185	2549.5	1	19.69	21.00	1.352	62.9	1.006	0.09	0.855	1.163	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 7	41055	2636.5	1	19.55	21.00	1.396	62.9	1.006	0.08	0.796	1.118	



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2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 7	41490	2680	1	19.43	21.00	1.435	62.9	1.006	0.03	0.838	1.210		
2nd	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.19	0.441	0.583		
2nd	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.06	0.708	0.937		
2nd	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 7	39750	2506	1	19.80	21.00	1.318	62.9	1.006	0	0.620	0.822		
2nd	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 7	40185	2549.5	1	19.69	21.00	1.352	62.9	1.006	0.07	0.656	0.892		
2nd	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 7	41055	2636.5	1	19.55	21.00	1.396	62.9	1.006	-0.02	0.610	0.857		
2nd	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	DSI 7	41490	2680	1	19.43	21.00	1.435	62.9	1.006	-0.1	0.624	0.901		
2nd	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	DSI 7	40620	2593	1	19.79	21.00	1.321	62.9	1.006	-0.15	0.766	1.018		
2nd	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 7	40620	2593	1	19.79	21.00	1.321	62.9	1.006	-0.11	0.890	1.183		
2nd	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	DSI 7	40620	2593	1	19.79	21.00	1.321	62.9	1.006	0.16	0.689	0.916		
1st	FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 4	DSI 7	507000	2535	1	11.53	12.50	1.250	-	-	-0.02	0.488	0.610	-1%	
2nd	FR1 n7	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 4	DSI 7	507000	2535	1	11.53	12.50	1.250	-	-	-0.18	0.482	0.603	-1%	
1st	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 7	507000	2535	1	18.96	20.00	1.271	-	-	-0.12	1.000	1.271	-4%	
29	2nd	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 7	507000	2535	1	18.96	20.00	1.271	-	-	-0.14	0.964	1.225	-4%
1st	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 7	507000	2535	1	18.96	20.00	1.271	-	-	0.06	0.953	1.211	-4%	
2nd	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 7	507000	2535	1	18.96	20.00	1.271	-	-	0.13	0.912	1.159	-4%	
1st	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 7	518598	2592.99	1	11.82	13.00	1.312	-	-	-0.07	0.465	0.610	-2%	
30	2nd	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 7	518598	2592.99	1	11.82	13.00	1.312	-	-	-0.04	0.456	0.598	-2%
<b>3000MHz-4000MHz</b>																							
1st	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI 7	42590	3500	1	13.71	15.00	1.346	62.9	1.006	-0.06	0.450	0.609	-3%	
31	2nd	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 5	DSI 7	42590	3500	1	13.71	15.00	1.346	62.9	1.006	-0.13	0.437	0.592	-3%	
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI 7	656000	3840	1	11.33	13.00	1.469	-	-	-0.04	0.232	0.341		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI 7	656000	3840	1	11.33	13.00	1.469	-	-	-0.14	0.376	0.552		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	DSI 7	656000	3840	1	11.33	13.00	1.469	-	-	0	0.072	0.106		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	DSI 7	656000	3840	1	11.33	13.00	1.469	-	-	0.17	0.248	0.364		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	DSI 7	656000	3840	1	11.28	13.00	1.486	-	-	-0.05	0.233	0.346		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	DSI 7	656000	3840	1	11.28	13.00	1.486	-	-	0.18	0.381	0.566		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	DSI 7	656000	3840	1	11.28	13.00	1.486	-	-	0.13	0.079	0.117		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 5	DSI 7	656000	3840	1	11.28	13.00	1.486	-	-	-0.12	0.262	0.389		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	DSI 7	656000	3840	1	11.24	13.00	1.500	-	-	0.14	0.361	0.541		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	DSI 7	656000	3840	1	10.89	12.00	1.291	-	-	0.02	0.048	0.062		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	DSI 7	656000	3840	1	10.89	12.00	1.291	-	-	-0.06	0.415	0.536		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 2	DSI 7	656000	3840	1	10.89	12.00	1.291	-	-	0.09	0.113	0.146		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 2	DSI 7	656000	3840	1	10.89	12.00	1.291	-	-	-0.1	0.011	0.014		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	DSI 7	656000	3840	1	10.85	12.00	1.303	-	-	0.11	0.055	0.072		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	DSI 7	656000	3840	1	10.85	12.00	1.303	-	-	-0.05	0.436	0.568		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	DSI 7	656000	3840	1	10.85	12.00	1.303	-	-	-0.12	0.121	0.158		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 2	DSI 7	656000	3840	1	10.85	12.00	1.303	-	-	0.09	0.012	0.016		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	DSI 7	656000	3840	1	10.65	12.00	1.365	-	-	-0.04	0.406	0.554		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI 7	656000	3840	1	12.84	14.50	1.466	-	-	-0.19	0.032	0.047		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 7	656000	3840	1	12.84	14.50	1.466	-	-	-0.01	0.405	0.594		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	DSI 7	656000	3840	1	12.84	14.50	1.466	-	-	-0.12	0.083	0.122		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	DSI 7	656000	3840	1	12.84	14.50	1.466	-	-	0.15	0.007	0.010		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	DSI 7	656000	3840	1	12.83	14.50	1.469	-	-	-0.08	0.040	0.059		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 7	656000	3840	1	12.83	14.50	1.469	-	-	0.11	0.411	0.604		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 8	DSI 7	656000	3840	1	12.83	14.50	1.469	-	-	0.03	0.094	0.138		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	DSI 7	656000	3840	1	12.83	14.50	1.469	-	-	-0.18	0.010	0.015		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	DSI 7	656000	3840	1	12.76	14.50	1.493	-	-	-0.02	0.392	0.585		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	DSI 7	656000	3840	1	18.49	19.50	1.262	-	-	-0.19	0.979	1.235		
32	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	DSI 7	656000	3840	1	18.49	19.50	1.262	-	-	0.1	1.010	1.274	
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	DSI 7	656000	3840	2	18.49	19.50	1.262	-	-	-0.05	0.854	1.078		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 1	DSI 7	656000	3840	1	18.49	19.50	1.262	-	-	-0.03	0.633	0.799		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 1	DSI 7	656000	3840	1	18.49	19.50	1.262	-	-	0.1	0.595	0.751		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	DSI 7	656000	3840	1	18.42	19.50	1.282	-	-	0.19	0.931	1.194		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	DSI 7	656000	3840	1	18.42	19.50	1.282	-	-	-0.01	0.978	1.254		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 1	DSI 7	656000	3840	1	18.42	19.50	1.282	-	-	0.09	0.616	0.790		



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2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 1	DSI 7	656000	3840	1	18.42	19.50	1.282	-	-	-0.14	0.583	0.748	
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 1	DSI 7	656000	3840	1	18.36	19.50	1.300	-	-	-0.14	0.889	1.156	
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 1	DSI 7	656000	3840	1	18.36	19.50	1.300	-	-	0.14	0.934	1.214	
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Left Side	5mm	Ant 1	DSI 7	656000	3840	1	18.36	19.50	1.300	-	-	0.12	0.588	0.764	
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Bottom Side	5mm	Ant 1	DSI 7	656000	3840	1	18.36	19.50	1.300	-	-	-0.16	0.557	0.724	

Plot No.	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)	Deviation
<b>WLAN2.4GHz/Bluetooth</b>																			
	1st	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	Simultaneous	39	2441	1	12.50	14.00	1.413	77.03	1.298	0.16	0.270	0.495	-25%
33	2nd	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	Simultaneous	39	2441	1	12.50	14.00	1.413	77.03	1.298	-0.13	0.216	<b>0.396</b>	
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	1	2412	1	16.50	18.00	1.413	97.46	1.026	0.19	0.502	0.728	-25%
34	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	1	2412	1	16.50	18.00	1.413	97.46	1.026	0.13	0.402	<b>0.583</b>	
<b>WLAN5GHz</b>																			
	1st	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Simultaneous	42	5210	1	11.42	13.00	1.439	89.6	1.116	0.18	0.460	0.739	-19%
35	2nd	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Simultaneous	42	5210	1	11.42	13.00	1.439	89.6	1.116	0.18	0.386	<b>0.620</b>	
	1st	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Simultaneous	155	5775	1	11.31	13.00	1.476	89.6	1.116	0.17	0.431	0.710	-21%
36	2nd	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Simultaneous	155	5775	1	11.31	13.00	1.476	89.6	1.116	-0.11	0.355	<b>0.585</b>	



16.3 Body Worn Accessory SAR

Plot No.	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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation
<b>835MHz</b>																						
37	1st	GSM850	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	-	DSI 3	251	848.8	1	27.41	29.00	1.442	0.12	0.866	1.249	-2%
	2nd	GSM850	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	-	DSI 3	251	848.8	1	27.41	29.00	1.442	0.13	0.845	<b>1.219</b>	
	1st	GSM850	-	-	-	-	GPRS 2 Tx slots	Front	5mm	Ant 0	-	DSI 3	189	836.4	1	27.47	29.00	1.422	0.11	0.434	0.617	-5%
	2nd	GSM850	-	-	-	-	GPRS 2 Tx slots	Front	5mm	Ant 0	-	DSI 3	189	836.4	1	27.47	29.00	1.422	0.06	0.414	0.589	
38	1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	1	20.82	22.20	1.374	0.14	0.844	1.160	-5%
	2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	1	20.82	22.20	1.374	-0.01	0.806	<b>1.107</b>	
	1st	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	26865	831.5	1	22.43	24.00	1.435	0.1	0.611	0.877	-1%
	2nd	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	26865	831.5	1	22.43	24.00	1.435	-0.06	0.603	0.866	
	1st	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.57	23.00	1.390	0.13	0.844	1.173	1%
39	2nd	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	1	21.57	23.00	1.390	0.11	0.848	<b>1.179</b>	
	1st	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	-	DSI 3	166300	831.5	1	22.85	24.00	1.303	0.15	0.651	0.848	-1%
	2nd	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 4	-	DSI 3	166300	831.5	1	22.85	24.00	1.303	0.09	0.647	0.843	
	1st	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DSI 3	166300	831.5	1	22.49	23.50	1.262	-0.04	1.010	1.274	-1%
40	2nd	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	DSI 3	166300	831.5	1	22.49	23.50	1.262	0.05	1.000	<b>1.262</b>	
	1st	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DSI 3	166300	831.5	1	22.49	23.50	1.262	-0.02	0.516	0.651	3%
	2nd	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	DSI 3	166300	831.5	1	22.49	23.50	1.262	0.07	0.500	0.631	
<b>1900MHz</b>																						
41	1st	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	-	DSI 3	661	1880	1	22.59	24.00	1.384	-0.19	0.759	1.050	3%
	2nd	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	-	DSI 3	661	1880	1	22.59	24.00	1.384	0.06	0.779	<b>1.078</b>	
42	1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	1	16.15	17.50	1.365	0.04	0.859	1.172	-11%
	2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	1	16.15	17.50	1.365	0.18	0.777	<b>1.060</b>	
	1st	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	26140	1860	1	18.94	20.00	1.276	0.19	0.676	0.863	-7%
	2nd	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	18900	1880	1	18.94	20.00	1.276	0.01	0.631	0.805	
	1st	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26140	1860	1	16.53	18.00	1.403	0.04	0.873	1.225	-8%
43	2nd	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	18900	1880	1	16.53	18.00	1.403	0.03	0.810	<b>1.136</b>	





Plot No.	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)	Deviation
2600MHz																								
	2nd	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	21100	2535	1	14.95	16.00	1.274	-	-	0.13	0.352	0.448	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	21100	2535	1	14.95	16.00	1.274	-	-	0.09	0.636	0.810	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	20850	2510	1	14.77	16.00	1.327	-	-	0.16	0.584	0.775	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	21350	2560	1	14.74	16.00	1.337	-	-	0.04	0.599	0.801	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Front	14mm	Ant 4	-	DSI 4	21100	2535	1	22.97	24.00	1.268	-	-	-0.01	0.539	0.683	
	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	19mm	Ant 4	-	DSI 4	21100	2535	1	22.97	24.00	1.268	-	-	0.15	0.416	0.527	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI 3	21100	2535	1	14.94	16.00	1.276	-	-	0.01	0.364	0.465	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	21100	2535	1	14.94	16.00	1.276	-	-	0.16	0.658	0.840	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	20850	2510	1	14.82	16.00	1.312	-	-	0.05	0.605	0.794	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	21350	2560	1	14.74	16.00	1.337	-	-	-0.07	0.620	0.829	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Front	14mm	Ant 4	-	DSI 4	21100	2535	1	21.91	23.00	1.285	-	-	0.17	0.441	0.567	
	2nd	LTE Band 7	20M	QPSK	50	0	-	Back	19mm	Ant 4	-	DSI 4	21100	2535	1	21.91	23.00	1.285	-	-	-0.12	0.312	0.401	
	2nd	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	DSI 3	21100	2535	1	14.90	16.00	1.288	-	-	-0.07	0.628	0.809	
	1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	1	18.00	19.50	1.413	-	-	0.12	0.820	1.158	
44	2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	1	18.00	19.50	1.413	-	-	0.18	0.770	1.088	-6%
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI 3	40620	2593	1	15.74	16.50	1.191	62.9	1.006	0.09	0.280	0.336	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	40620	2593	1	15.74	16.50	1.191	62.9	1.006	0.11	0.653	0.783	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	39750	2506	1	15.64	16.50	1.219	62.9	1.006	0.1	0.592	0.726	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	40185	2549.5	1	15.73	16.50	1.194	62.9	1.006	-0.16	0.733	0.880	
	2nd	LTE Band 38C	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	37901+38099	2585.1+2604.9	1	15.55	16.50	1.245	62.9	1.006	0.03	0.689	0.863	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	41055	2636.5	1	15.62	16.50	1.225	62.9	1.006	0.13	0.598	0.737	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	41490	2680	1	15.65	16.50	1.216	62.9	1.006	0	0.586	0.717	
	2nd	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI 3	40185	2549.5	1	17.48	18.10	1.153	42.9	1.009	-0.16	0.679	0.790	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 4	-	DSI 4	40620	2593	1	22.79	24.00	1.321	62.9	1.006	-0.13	0.512	0.681	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 4	-	DSI 4	39750	2506	1	22.73	24.00	1.340	62.9	1.006	0.01	0.462	0.623	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 4	-	DSI 4	40185	2549.5	1	22.76	24.00	1.330	62.9	1.006	0.09	0.572	0.766	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 4	-	DSI 4	41055	2636.5	1	22.73	24.00	1.340	62.9	1.006	0.05	0.466	0.628	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 4	-	DSI 4	41490	2680	1	22.75	24.00	1.334	62.9	1.006	0.14	0.457	0.613	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	19mm	Ant 4	-	DSI 4	40185	2549.5	1	22.76	24.00	1.330	62.9	1.006	-0.1	0.435	0.582	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI 3	40620	2593	1	15.70	16.50	1.202	62.9	1.006	0.03	0.267	0.323	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	40620	2593	1	15.70	16.50	1.202	62.9	1.006	0.05	0.624	0.755	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	39750	2506	1	15.50	16.50	1.259	62.9	1.006	0.14	0.565	0.716	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	40185	2549.5	1	15.66	16.50	1.213	62.9	1.006	-0.13	0.648	0.791	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	41055	2636.5	1	15.48	16.50	1.265	62.9	1.006	0.06	0.571	0.726	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI 3	41490	2680	1	15.54	16.50	1.247	62.9	1.006	0.05	0.560	0.703	
	2nd	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	DSI 3	40620	2593	1	15.69	16.50	1.205	62.9	1.006	-0.05	0.610	0.739	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	1	19.85	21.00	1.303	62.9	1.006	-0.04	0.821	1.076	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	1	19.70	21.00	1.349	62.9	1.006	-0.1	0.707	0.959	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.81	21.00	1.315	62.9	1.006	-0.06	0.790	1.045	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.62	21.00	1.374	62.9	1.006	0.07	0.711	0.983	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	1	19.35	21.00	1.462	62.9	1.006	0.06	0.722	1.062	
45	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	1	19.85	21.00	1.303	62.9	1.006	0.13	0.959	1.257	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	2	19.85	21.00	1.303	62.9	1.006	0.02	0.748	0.981	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	1	19.70	21.00	1.349	62.9	1.006	0.02	0.860	1.167	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.81	21.00	1.315	62.9	1.006	0.07	0.899	1.189	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.62	21.00	1.374	62.9	1.006	-0.19	0.854	1.180	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	1	19.35	21.00	1.462	62.9	1.006	0.01	0.843	1.240	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	40620	2593	1	19.85	21.00	1.303	62.9	1.006	0.01	0.843	1.105	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Front	14mm	Ant 1	-	DSI 4	40620	2593	1	22.95	24.00	1.274	62.9	1.006	-0.1	0.288	0.369	
	2nd	LTE Band 41	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI 4	40620	2593	1	22.95	24.00	1.274	62.9	1.006	0.14	0.184	0.236	
	2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.07	0.784	1.037	



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2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	1	19.80	21.00	1.318	62.9	1.006	-0.13	0.675	0.895		
2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.69	21.00	1.352	62.9	1.006	0.14	0.754	1.026		
2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.55	21.00	1.396	62.9	1.006	-0.13	0.679	0.954		
2nd	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	1	19.43	21.00	1.435	62.9	1.006	-0.16	0.690	0.996		
2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.12	0.922	1.220		
2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	1	19.80	21.00	1.318	62.9	1.006	-0.05	0.821	1.089		
2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	1	19.69	21.00	1.352	62.9	1.006	0.09	0.855	1.163		
2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	1	19.55	21.00	1.396	62.9	1.006	0.08	0.796	1.118		
2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	1	19.43	21.00	1.435	62.9	1.006	0.03	0.838	1.210		
2nd	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	Headset	DSI 3	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.03	0.891	1.179		
2nd	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	1	19.79	21.00	1.321	62.9	1.006	-0.15	0.766	1.018		
2nd	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	1	19.79	21.00	1.321	62.9	1.006	-0.11	0.890	1.183		
1st	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI 3	507000	2535	1	15.48	16.00	1.127	-	-	0.19	0.821	0.925	1%	
2nd	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	-	DSI 3	507000	2535	1	15.48	16.00	1.127	-	-	-0.02	0.830	0.936		
1st	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	507000	2535	1	18.96	20.00	1.271	-	-	-0.12	1.000	1.271	-4%	
46	2nd	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	507000	2535	1	18.96	20.00	1.271	-	-	-0.14	0.964	1.225	-4%
1st	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	507000	2535	1	18.96	20.00	1.271	-	-	0.06	0.953	1.211	-4%	
2nd	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	507000	2535	1	18.96	20.00	1.271	-	-	0.13	0.912	1.159		
1st	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	518598	2592.99	1	14.16	15.50	1.361	-	-	-0.16	0.687	0.935	6%	
47	2nd	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	518598	2592.99	1	14.16	15.50	1.361	-	-	-0.06	0.734	0.999	
<b>3000MHz-4000MHz</b>																								
1st	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	42590	3500	1	15.58	17.00	1.387	62.9	1.006	0.1	0.667	0.931	7%	
48	2nd	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	DSI 3	42590	3500	1	15.58	17.00	1.387	62.9	1.006	0.01	0.720	1.004	
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	DSI 3	656000	3840	1	12.82	14.50	1.472	-	-	-0.03	0.335	0.493		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	12.82	14.50	1.472	-	-	-0.09	0.524	0.771		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 5	-	DSI 4	656000	3840	1	25.36	27.00	1.459	-	-	0.15	0.541	0.789		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	19mm	Ant 5	-	DSI 4	656000	3840	1	25.36	27.00	1.459	-	-	-0.1	0.241	0.352		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	DSI 3	656000	3840	1	12.76	14.50	1.493	-	-	0.03	0.341	0.509		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	12.76	14.50	1.493	-	-	0.11	0.545	0.814		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	14mm	Ant 5	-	DSI 4	656000	3840	1	25.25	27.00	1.496	-	-	0.17	0.597	0.893		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	19mm	Ant 5	-	DSI 4	656000	3840	1	25.25	27.00	1.496	-	-	0.15	0.303	0.453		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 5	-	DSI 3	656000	3840	1	12.74	14.50	1.500	-	-	0.09	0.321	0.481		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	-	DSI 3	656000	3840	1	12.74	14.50	1.500	-	-	0.01	0.509	0.763		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	-	DSI 3	656000	3840	1	14.02	15.00	1.253	-	-	0.09	0.046	0.058		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	14.02	15.00	1.253	-	-	-0.01	0.702	0.880		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 2	-	DSI 4	656000	3840	1	17.37	18.50	1.297	-	-	-0.05	0.030	0.039		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	19mm	Ant 2	-	DSI 4	656000	3840	1	17.37	18.50	1.297	-	-	-0.18	0.122	0.158		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	-	DSI 3	656000	3840	1	14.01	15.00	1.256	-	-	0.12	0.051	0.064		
49	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	14.01	15.00	1.256	-	-	-0.19	0.743	0.933	
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	14mm	Ant 2	-	DSI 4	656000	3840	1	17.29	18.50	1.321	-	-	-0.15	0.035	0.046		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	19mm	Ant 2	-	DSI 4	656000	3840	1	17.29	18.50	1.321	-	-	-0.01	0.114	0.151		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	-	DSI 3	656000	3840	1	13.94	15.00	1.276	-	-	-0.17	0.711	0.908		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI 3	656000	3840	1	14.29	16.00	1.483	-	-	0.17	0.038	0.056		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	1	14.29	16.00	1.483	-	-	0.14	0.581	0.861		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 8	-	DSI 4	656000	3840	1	20.39	22.00	1.449	-	-	-0.11	0.039	0.057		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	19mm	Ant 8	-	DSI 4	656000	3840	1	20.39	22.00	1.449	-	-	-0.05	0.234	0.339		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI 3	656000	3840	1	14.27	16.00	1.489	-	-	0	0.049	0.073		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	1	14.27	16.00	1.489	-	-	-0.03	0.608	0.906		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	14mm	Ant 8	-	DSI 4	656000	3840	1	20.37	22.00	1.455	-	-	0	0.049	0.071		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	19mm	Ant 8	-	DSI 4	656000	3840	1	20.37	22.00	1.455	-	-	-0.03	0.566	0.824		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	-	DSI 3	656000	3840	1	14.11	16.00	1.545	-	-	0.16	0.551	0.851		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	-	DSI 3	656000	3840	1	16.76	18.00	1.330	-	-	-0.19	0.677	0.901		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	16.76	18.00	1.330	-	-	0.1	0.699	0.930		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	14mm	Ant 1	-	DSI 4	656000	3840	1	20.37	21.50	1.297	-	-	0.06	0.397	0.515		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	19mm	Ant 1	-	DSI 4	656000	3840	1	20.37	21.50	1.297	-	-	0.11	0.225	0.292		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	-	DSI 3	656000	3840	1	16									





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2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	16.72	18.00	1.343	-	-	-0.01	0.677	0.909	
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 1	-	DSI 3	656000	3840	1	16.74	18.00	1.337	-	-	-0.14	0.615	0.822	
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 1	-	DSI 3	656000	3840	1	16.74	18.00	1.337	-	-	0.14	0.632	0.845	

Plot No.	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)	Deviation
<b>WLAN2.4GHz/Bluetooth</b>																				
	1st	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	-	Standalone	39	2441	1	12.50	14.00	1.413	77.03	1.298	0.16	0.270	0.495	-25%
50	2nd	Bluetooth	DH5 1Mbps	Back	5mm	Ant 6	-	Standalone	39	2441	1	12.50	14.00	1.413	77.03	1.298	-0.13	0.216	<b>0.396</b>	
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	11	2462	1	17.90	19.50	1.445	97.46	1.026	0.11	0.802	1.189	-22%
51	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	-	Standalone	11	2462	1	17.90	19.50	1.445	97.46	1.026	0.19	0.659	<b>0.977</b>	
<b>WLAN5GHz</b>																				
	1st	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	58	5290	1	11.25	13.00	1.496	89.6	1.116	0.17	0.651	1.087	-19%
52	2nd	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	58	5290	1	11.25	13.00	1.496	89.6	1.116	-0.12	0.545	<b>0.910</b>	
	1st	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	122	5610	1	14.85	16.50	1.462	89.6	1.116	-0.07	0.695	1.134	-20%
53	2nd	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	122	5610	1	14.85	16.50	1.462	89.6	1.116	-0.02	0.580	<b>0.946</b>	
	1st	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	155	5775	1	14.81	16.50	1.476	89.6	1.116	-0.13	0.670	1.103	-23%
54	2nd	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Standalone	155	5775	1	14.81	16.50	1.476	89.6	1.116	0.16	0.545	<b>0.898</b>	



16.4 Product specific 10g SAR

Plot No.	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	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Deviation
<b>835MHz</b>																					
	1st	GSM850	-	-	-	-	GPRS 2 Tx slots	Bottom Side	0mm	Ant 0	DSI 6	189	836.4	1	30.22	31.50	1.343	0.12	2.120	2.847	-14%
55	2nd	GSM850	-	-	-	-	GPRS 2 Tx slots	Bottom Side	0mm	Ant 0	DSI 6	189	836.4	1	30.22	31.50	1.343	-0.04	1.860	<b>2.498</b>	
	1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4233	846.6	1	22.67	24.00	1.358	-0.04	2.330	3.165	0%
56	2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	4233	846.6	1	22.67	24.00	1.358	-0.17	2.320	<b>3.151</b>	
	1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4233	846.6	1	22.67	24.00	1.358	0	1.970	2.676	7%
	2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4233	846.6	1	22.67	24.00	1.358	0.03	2.110	2.866	
	1st	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	22.45	24.00	1.429	0.06	2.220	3.172	0%
57	2nd	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26865	831.5	1	22.45	24.00	1.429	-0.16	2.210	<b>3.158</b>	
	1st	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26865	831.5	1	22.45	24.00	1.429	0.01	2.080	2.972	-5%
	2nd	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	26865	831.5	1	22.45	24.00	1.429	-0.11	1.980	2.829	
	1st	FR1 n26	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	166300	831.5	1	22.93	24.00	1.279	0.14	1.970	2.520	-6%
58	2nd	FR1 n26	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI 6	166300	831.5	1	22.93	24.00	1.279	0.16	1.860	<b>2.380</b>	
<b>1900MHz</b>																					
	1st	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	0mm	Ant 0	DSI 6	512	1850.2	1	26.96	28.00	1.271	-0.05	2.360	2.999	-1%
59	2nd	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	0mm	Ant 0	DSI 6	512	1850.2	1	26.96	28.00	1.271	-0.03	2.340	<b>2.973</b>	
	1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	1	19.65	21.00	1.365	0.17	2.140	2.920	-2%
60	2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	1	19.65	21.00	1.365	0.04	2.100	<b>2.866</b>	
	1st	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	26140	1860	1	20.41	21.50	1.285	-0.13	1.900	2.442	2%
	2nd	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	DSI 6	18900	1880	1	20.41	21.50	1.285	0.01	1.930	2.481	
	1st	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	26590	1905	1	20.19	21.50	1.352	0.04	2.130	2.880	-1%
61	2nd	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	20.19	21.50	1.352	-0.01	2.100	<b>2.839</b>	



Plot No.	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)	Deviation
<b>2600MHz</b>																							
	2nd	LTE Band 7	20M	QPSK	1	0		Front	0mm	Ant 4	DSI 6	21100	2535	1	19.35	20.50	1.303	-	-	0.15	1.460	1.903	
	2nd	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	21100	2535	1	19.35	20.50	1.303	-	-	-0.08	1.850	2.411	
	2nd	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	20850	2510	1	19.12	20.50	1.374	-	-	-0.06	1.660	2.281	
	2nd	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	21350	2560	1	19.17	20.50	1.358	-	-	-0.07	1.710	2.323	
	2nd	LTE Band 7	20M	QPSK	1	0		Left Side	0mm	Ant 4	DSI 6	21100	2535	1	19.35	20.50	1.303	-	-	-0.16	1.320	1.720	
	2nd	LTE Band 7	20M	QPSK	1	0		Top Side	0mm	Ant 4	DSI 6	21100	2535	1	19.35	20.50	1.303	-	-	0.15	1.270	1.655	
	2nd	LTE Band 7	20M	QPSK	1	0		Front	9mm	Ant 4	DSI 4	21100	2535	1	22.97	24.00	1.268	-	-	-0.15	0.646	0.819	
	2nd	LTE Band 7	20M	QPSK	1	0		Back	13mm	Ant 4	DSI 4	21100	2535	1	22.97	24.00	1.268	-	-	-0.08	0.405	0.513	
	2nd	LTE Band 7	20M	QPSK	1	0		Left Side	6mm	Ant 4	DSI 4	21100	2535	1	22.97	24.00	1.268	-	-	0.12	0.845	1.071	
	2nd	LTE Band 7	20M	QPSK	1	0		Top Side	17mm	Ant 4	DSI 4	21100	2535	1	22.97	24.00	1.268	-	-	0.16	0.368	0.466	
	2nd	LTE Band 7	20M	QPSK	50	0		Front	0mm	Ant 4	DSI 6	21100	2535	1	19.29	20.50	1.321	-	-	0.03	1.420	1.876	
	2nd	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	21100	2535	1	19.29	20.50	1.321	-	-	0.15	1.790	2.365	
	2nd	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	20850	2510	1	19.11	20.50	1.377	-	-	0.06	1.620	2.231	
	2nd	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	21350	2560	1	19.15	20.50	1.365	-	-	-0.01	1.670	2.279	
	2nd	LTE Band 7	20M	QPSK	50	0		Left Side	0mm	Ant 4	DSI 6	21100	2535	1	19.29	20.50	1.321	-	-	-0.18	1.290	1.704	
	2nd	LTE Band 7	20M	QPSK	50	0		Top Side	0mm	Ant 4	DSI 6	21100	2535	1	19.29	20.50	1.321	-	-	-0.15	1.240	1.638	
	2nd	LTE Band 7	20M	QPSK	100	0		Back	0mm	Ant 4	DSI 6	21100	2535	1	19.22	20.50	1.343	-	-	0.09	1.710	2.296	
	1st	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	1	19.78	21.00	1.324	-	-	0.09	2.250	2.980	
62	2nd	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	1	19.78	21.00	1.324	-	-	-0.09	1.930	<b>2.556</b>	-17%
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 4	DSI 6	40620	2593	1	20.78	21.50	1.180	62.9	1.006	-0.19	1.610	1.912	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 4	DSI 6	39750	2506	1	20.58	21.50	1.236	62.9	1.006	0	1.510	1.877	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 4	DSI 6	40185	2549.5	1	20.73	21.50	1.194	62.9	1.006	0.11	1.590	1.910	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 4	DSI 6	41055	2636.5	1	20.67	21.50	1.211	62.9	1.006	0.19	1.520	1.851	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 4	DSI 6	41490	2680	1	20.65	21.50	1.216	62.9	1.006	-0.07	1.270	1.554	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	40620	2593	1	20.78	21.50	1.180	62.9	1.006	-0.12	1.910	2.268	
	2nd	LTE Band 38C	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	37901+38099	2585.1+2604.9	1	20.50	21.50	1.259	62.9	1.006	0.01	1.750	2.216	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	39750	2506	1	20.58	21.50	1.236	62.9	1.006	-0.01	1.590	1.977	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	40185	2549.5	1	20.73	21.50	1.194	62.9	1.006	-0.14	1.690	2.030	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	41055	2636.5	1	20.67	21.50	1.211	62.9	1.006	-0.11	1.580	1.924	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	41490	2680	1	20.65	21.50	1.216	62.9	1.006	0.05	1.510	1.847	
	2nd	LTE Band 41	20M	QPSK	1	0		Left Side	0mm	Ant 4	DSI 6	40620	2593	1	20.78	21.50	1.180	62.9	1.006	-0.01	1.080	1.282	
	2nd	LTE Band 41	20M	QPSK	1	0		Top Side	0mm	Ant 4	DSI 6	40620	2593	1	20.78	21.50	1.180	62.9	1.006	0.11	1.210	1.437	
	2nd	LTE Band 41 PC2	20M	QPSK	1	0		Back	0mm	Ant 4	DSI 6	40620	2593	1	22.58	23.10	1.127	42.9	1.009	-0.02	1.810	2.059	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	9mm	Ant 4	DSI 4	40620	2593	1	22.79	24.00	1.321	62.9	1.006	-0.18	0.544	0.723	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	13mm	Ant 4	DSI 4	40620	2593	1	22.79	24.00	1.321	62.9	1.006	-0.02	0.467	0.621	
	2nd	LTE Band 41	20M	QPSK	1	0		Left Side	6mm	Ant 4	DSI 4	40620	2593	1	22.79	24.00	1.321	62.9	1.006	-0.18	0.695	0.924	
	2nd	LTE Band 41	20M	QPSK	1	0		Top Side	17mm	Ant 4	DSI 4	40620	2593	1	22.79	24.00	1.321	62.9	1.006	0.09	0.277	0.368	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 4	DSI 6	40620	2593	1	20.76	21.50	1.186	62.9	1.006	0.18	1.570	1.873	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 4	DSI 6	39750	2506	1	20.58	21.50	1.236	62.9	1.006	-0.12	1.470	1.828	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 4	DSI 6	40185	2549.5	1	20.61	21.50	1.227	62.9	1.006	-0.12	1.510	1.865	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 4	DSI 6	41055	2636.5	1	20.63	21.50	1.222	62.9	1.006	-0.12	1.480	1.819	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 4	DSI 6	41490	2680	1	20.71	21.50	1.199	62.9	1.006	-0.12	1.240	1.496	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	40620	2593	1	20.76	21.50	1.186	62.9	1.006	0.09	1.700	2.028	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	39750	2506	1	20.58	21.50	1.236	62.9	1.006	-0.12	1.550	1.927	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	40185	2549.5	1	20.61	21.50	1.227	62.9	1.006	-0.12	1.620	2.000	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	41055	2636.5	1	20.63	21.50	1.222	62.9	1.006	-0.12	1.540	1.893	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 4	DSI 6	41490	2680	1	20.71	21.50	1.199	62.9	1.006	-0.12	1.470	1.774	
	2nd	LTE Band 41	20M	QPSK	50	0		Left Side	0mm	Ant 4	DSI 6	40620	2593	1	20.76	21.50	1.186	62.9	1.006	0.17	1.050	1.253	
	2nd	LTE Band 41	20M	QPSK	50	0		Top Side	0mm	Ant 4	DSI 6	40620	2593	1	20.76	21.50	1.186	62.9	1.006	-0.14	1.180	1.408	
	2nd	LTE Band 41	20M	QPSK	100	0		Front	0mm	Ant 4	DSI 6	40620	2593	1	20.71	21.50	1.199	62.9	1.006	-0.06	1.520	1.834	
	2nd	LTE Band 41	20M	QPSK	100	0		Back	0mm	Ant 4	DSI 6	40620	2593	1	20.71	21.50	1.199	62.9	1.006	-0.05	1.660	2.003	



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	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 1	DSI 6	40620	2593	1	22.95	24.00	1.274	62.9	1.006	-0.16	2.290	2.934	
63	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 1	DSI 6	39750	2506	1	22.93	24.00	1.279	62.9	1.006	-0.06	2.440	<b>3.140</b>	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 1	DSI 6	39750	2506	2	22.93	24.00	1.279	62.9	1.006	-0.11	1.830	2.355	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 1	DSI 6	40185	2549.5	1	22.92	24.00	1.282	62.9	1.006	-0.14	2.350	3.032	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 1	DSI 6	41055	2636.5	1	22.75	24.00	1.334	62.9	1.006	0.13	2.230	2.992	
	2nd	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 1	DSI 6	41490	2680	1	22.46	24.00	1.426	62.9	1.006	-0.19	2.130	3.055	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 1	DSI 6	40620	2593	1	22.95	24.00	1.274	62.9	1.006	0.01	2.190	2.806	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 1	DSI 6	39750	2506	1	22.93	24.00	1.279	62.9	1.006	0.01	2.290	2.947	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 1	DSI 6	40185	2549.5	1	22.92	24.00	1.282	62.9	1.006	-0.06	2.250	2.903	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 1	DSI 6	41055	2636.5	1	22.75	24.00	1.334	62.9	1.006	-0.07	2.150	2.884	
	2nd	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 1	DSI 6	41490	2680	1	22.46	24.00	1.426	62.9	1.006	-0.02	2.020	2.897	
	2nd	LTE Band 41	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DSI 6	40620	2593	1	22.95	24.00	1.274	62.9	1.006	-0.09	0.877	1.124	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 1	DSI 6	40620	2593	1	21.89	23.00	1.291	62.9	1.006	-0.03	2.190	2.845	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 1	DSI 6	39750	2506	1	21.86	23.00	1.300	62.9	1.006	0.1	2.330	3.048	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 1	DSI 6	40185	2549.5	1	21.84	23.00	1.306	62.9	1.006	0.01	2.240	2.943	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 1	DSI 6	41055	2636.5	1	21.73	23.00	1.340	62.9	1.006	-0.01	2.130	2.871	
	2nd	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 1	DSI 6	41490	2680	1	21.63	23.00	1.371	62.9	1.006	0.06	2.030	2.800	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 1	DSI 6	40620	2593	1	21.89	23.00	1.291	62.9	1.006	-0.04	2.090	2.715	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 1	DSI 6	39750	2506	1	21.86	23.00	1.300	62.9	1.006	-0.06	2.190	2.864	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 1	DSI 6	40185	2549.5	1	21.84	23.00	1.306	62.9	1.006	0.17	2.150	2.825	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 1	DSI 6	41055	2636.5	1	21.73	23.00	1.340	62.9	1.006	-0.12	2.050	2.763	
	2nd	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 1	DSI 6	41490	2680	1	21.63	23.00	1.371	62.9	1.006	-0.18	1.930	2.662	
	2nd	LTE Band 41	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DSI 6	40620	2593	1	21.89	23.00	1.291	62.9	1.006	-0.1	0.838	1.089	
	2nd	LTE Band 41	20M	QPSK	100	0		Front	0mm	Ant 1	DSI 6	40620	2593	1	21.82	23.00	1.312	62.9	1.006	0.1	2.150	2.838	
	2nd	LTE Band 41	20M	QPSK	100	0		Back	0mm	Ant 1	DSI 6	40620	2593	1	21.82	23.00	1.312	62.9	1.006	0.13	2.010	2.653	
	2nd	LTE Band 41	20M	QPSK	100	0		Left Side	0mm	Ant 1	DSI 6	40620	2593	1	21.82	23.00	1.312	62.9	1.006	0.04	1.210	1.597	
	1st	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 4	DSI 6	507000	2535	1	18.73	19.50	1.194	-	-	-0.14	2.060	2.460	1%
	2nd	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 4	DSI 6	507000	2535	1	18.73	19.50	1.194	-	-	0.09	2.090	2.495	
	1st	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	507000	2535	1	18.81	20.00	1.315	-	-	-0.11	2.120	2.788	-7%
64	2nd	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	507000	2535	1	18.81	20.00	1.315	-	-	0.06	1.990	<b>2.617</b>	
	1st	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	518598	2592.99	1	18.38	19.50	1.294	-	-	0.11	1.800	2.330	-6%
65	2nd	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	518598	2592.99	1	18.38	19.50	1.294	-	-	0.04	1.700	<b>2.200</b>	
<b>3000MHz-4000MHz</b>																							
	1st	LTE Band 42	20M	QPSK	1	0	-	Front	0mm	Ant 5	DSI 6	42590	3500	1	19.44	21.00	1.432	62.9	1.006	0.1	1.590	2.291	8%
66	2nd	LTE Band 42	20M	QPSK	1	0	-	Front	0mm	Ant 5	DSI 6	42590	3500	1	19.44	21.00	1.432	62.9	1.006	0.09	1.720	<b>2.478</b>	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 5	DSI 6	656000	3840	1	18.32	20.00	1.472	-	-	-0.12	1.440	2.120	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	DSI 6	656000	3840	1	18.32	20.00	1.472	-	-	-0.1	0.878	1.293	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	DSI 4	656000	3840	1	25.36	27.00	1.459	-	-	-0.08	1.010	1.473	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI 6	656000	3840	1	18.32	20.00	1.472	-	-	-0.02	1.330	1.958	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	4mm	Ant 5	DSI 4	656000	3840	1	25.36	27.00	1.459	-	-	0.07	1.100	1.605	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	8mm	Ant 5	DSI 4	656000	3840	1	25.36	27.00	1.459	-	-	0.12	0.610	0.890	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	11mm	Ant 5	DSI 4	656000	3840	1	25.36	27.00	1.459	-	-	0.15	0.366	0.534	
	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 5	DSI 6	656000	3840	1	18.27	20.00	1.489	-	-	-0.04	1.340	1.996	
	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	DSI 6	656000	3840	1	18.27	20.00	1.489	-	-	0.01	0.819	1.220	
	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	DSI 4	656000	3840	1	25.25	27.00	1.496	-	-	0.07	0.943	1.411	
	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 5	DSI 6	656000	3840	1	18.27	20.00	1.489	-	-	0.03	1.240	1.847	
	2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 5	DSI 6	656000	3840	1	18.22	20.00	1.507	-	-	-0.12	1.280	1.928	
	2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	DSI 6	656000	3840	1	18.22	20.00	1.507	-	-	-0.16	0.783	1.180	
	2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 5	DSI 4	656000	3840	1	24.34	26.00	1.466	-	-	-0.17	0.900	1.319	
	2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 5	DSI 6	656000	3840	1	18.22	20.00	1.507	-	-	-0.17	1.190	1.793	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI 4	656000	3840	1	17.37	18.50	1.297	-	-	-0.13	1.710	2.218	
	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 4	656000	3840	1	17.29	18.50	1.321	-	-	0.17	1.700	2.246	
	2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	DSI 4	656000	3840	1	17.23	18.50	1.340	-	-	0.15	1.610	2.157	
	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 4	656000	3840	1	20.39	22.00	1.449	-	-	0.01	1.700	2.463	
	2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 4	656000	3840	1	20.37	22.00	1.455	-	-	0.18	1.630	2.372	
	2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	DSI 4	656000	3840	1	20.27	22.00	1.489						



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2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 1	DSI 6	656000	3840	1	20.37	21.50	1.297	-	-	0.13	1.510	1.959		
67	2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	656000	3840	1	20.37	21.50	1.297	-	-	-0.17	2.210	<b>2.867</b>	
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	656000	3840	2	20.37	21.50	1.297	-	-	-0.08	2.030	2.633		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	DSI 6	656000	3840	1	20.37	21.50	1.297	-	-	-0.1	1.400	1.816		
2nd	FR1 n77	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 1	DSI 6	656000	3840	1	20.37	21.50	1.297	-	-	-0.02	1.110	1.440		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 1	DSI 6	656000	3840	1	20.35	21.50	1.303	-	-	0.06	1.440	1.877		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSI 6	656000	3840	1	20.35	21.50	1.303	-	-	0.03	2.130	2.776		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 1	DSI 6	656000	3840	1	20.35	21.50	1.303	-	-	-0.15	1.340	1.746		
2nd	FR1 n77	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 1	DSI 6	656000	3840	1	20.35	21.50	1.303	-	-	0.16	1.060	1.381		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 1	DSI 6	656000	3840	1	20.26	21.50	1.330	-	-	0.11	1.400	1.863		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	DSI 6	656000	3840	1	20.26	21.50	1.330	-	-	0.18	2.070	2.754		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 1	DSI 6	656000	3840	1	20.26	21.50	1.330	-	-	-0.01	1.300	1.730		
2nd	FR1 n77	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	Ant 1	DSI 6	656000	3840	1	20.26	21.50	1.330	-	-	-0.11	1.020	1.357		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 1	DSI 6	650000	3750	1	22.06	23.00	1.242	-	-	-0.19	1.290	1.602		
68	2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	650000	3750	1	22.06	23.00	1.242	-	-	-0.11	2.280	<b>2.831</b>	
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	DSI 6	650000	3750	1	22.06	23.00	1.242	-	-	-0.05	1.240	1.540		
2nd	FR1 n78	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 1	DSI 6	650000	3750	1	22.06	23.00	1.242	-	-	-0.04	0.991	1.230		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 1	DSI 6	650000	3750	1	21.86	23.00	1.300	-	-	0	1.210	1.573		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	DSI 6	650000	3750	1	21.86	23.00	1.300	-	-	-0.19	2.130	2.769		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 1	DSI 6	650000	3750	1	21.86	23.00	1.300	-	-	-0.06	1.160	1.508		
2nd	FR1 n78	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 1	DSI 6	650000	3750	1	21.86	23.00	1.300	-	-	-0.09	0.923	1.200		
2nd	FR1 n78	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	DSI 6	650000	3750	1	21.79	22.00	1.050	-	-	-0.16	2.080	2.183		

Plot No.	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)	Deviation
<b>WLAN2.4GHz</b>																			
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	1	2412	1	19.60	21.00	1.380	97.46	1.026	-0.13	0.755	1.069	
69	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	1	2412	1	19.60	21.00	1.380	97.46	1.026	0.12	0.589	<b>0.834</b>	-28%
<b>WLAN5GHz</b>																			
	1st	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	36	5180	1	17.79	19.50	1.482	97.31	1.028	-0.05	1.690	2.575	
70	2nd	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	36	5180	1	17.79	19.50	1.482	97.31	1.028	0.19	1.400	<b>2.133</b>	-21%
	1st	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	64	5320	1	18.41	19.50	1.285	97.31	1.028	0.08	2.060	2.721	
71	2nd	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	64	5320	1	18.41	19.50	1.285	97.31	1.028	-0.02	1.630	<b>2.153</b>	-26%
	1st	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	116	5580	1	18.38	20.00	1.452	97.31	1.028	-0.01	1.770	2.641	
72	2nd	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	116	5580	1	18.38	20.00	1.452	97.31	1.028	-0.07	1.490	<b>2.223</b>	-19%
	1st	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	149	5745	1	17.40	19.00	1.445	97.31	1.028	0.02	1.400	2.079	
73	2nd	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	149	5745	1	17.40	19.00	1.445	97.31	1.028	-0.01	1.120	<b>1.664</b>	-25%



16.5 Repeated SAR Measurement

<1g>

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 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	40620	2593	1	19.85	21.00	1.303	62.9	1.006	0.13	0.959	1	1.257
2st	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 7	40620	2593	1	19.85	21.00	1.303	62.9	1.006	-0.11	0.931	1.030	1.221
1st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	DSI 7	656000	3840	1	18.49	19.50	1.262	-	-	0.1	1.010	1	1.274
2st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	DSI 7	656000	3840	1	18.49	19.50	1.262	-	-	0.02	0.982	1.029	1.239

<10g>

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)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	1	22.93	24.00	1.279	62.9	1.006	-0.06	2.440	1	3.140
2st	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	1	22.93	24.00	1.279	62.9	1.006	0.03	2.280	1.070	2.934
1st	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	650000	3750	1	22.06	23.00	1.242	-	-	-0.11	2.280	1	2.831
2st	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	650000	3750	1	22.06	23.00	1.242	-	-	0.08	2.130	1.070	2.645
1st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	656000	3840	1	20.37	21.50	1.297	-	-	-0.17	2.210	1	2.867
2st	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	DSI 6	656000	3840	1	20.37	21.50	1.297	-	-	-0.17	2.000	1.105	2.594

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.



**16.6 TDD LTE Linearity Data Analysis**

**General Note:**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

Head			Hopspot		
LTE Band 41_Ant 4(HPUE)-Linearity Data for DSI 2			LTE Band 41_Ant 4(HPUE)-Linearity Data for DSI 7		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	18.60	Maximum Tune up Power (dBm)	14.50	16.10
Reported 1g SAR (W/kg)	0.853	0.780	Reported 1g SAR (W/kg)	0.635	0.598
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	31.73	31.37	Frame Averaged (mW)	17.84	17.64
Linearity SAR (W/kg)	0.843		Linearity SAR (W/kg)	0.628	
% deviation from expected linearity		-7.52%	% deviation from expected linearity		-4.75%

Body-worn			Extremity		
LTE Band 41_Ant 4(HPUE)-Linearity Data for DSI 3			LTE Band 41_Ant 4(HPUE)-Linearity Data for DSI 6		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)		LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	18.10	Maximum Tune up Power (dBm)	21.50	23.10
Reported 1g SAR (W/kg)	0.880	0.790	Reported 10g SAR (W/kg)	2.268	2.059
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	28.28	27.96	Frame Averaged (mW)	89.41	88.41
Linearity SAR (W/kg)	0.870		Linearity SAR (W/kg)	2.242	
% deviation from expected linearity		-9.21%	% deviation from expected linearity		-8.18%

## 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 + Bluetooth	Yes	Yes	Yes	Yes
4.	WWAN + WLAN2.4GHz+NFC				Yes
5.	WWAN + WLAN5GHz+NFC				Yes
6.	WWAN + Bluetooth+NFC				Yes

**General Note:**

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. 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.
5. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
6. 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).
7. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
8. WLAN 2.4GHz and Bluetooth share the same antenna, and they cannot transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
11. NFC can transmit simultaneously with other Radios in extremity exposure condition.
12. For standalone WWAN, always choose the highest SAR among the selected WWAN bands within the selected antenna for head each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
13. The maximum SAR summation is calculated based on the same configuration and test position.
14. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , 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.
  - iii) 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.

### 17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and  $A \leq 1.0$ ; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and  $B \leq 1.0$ .

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

If  $A + C \leq 1.0$  and  $B + C \leq 1.0$  can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Else, if  $A + C > 1.0$  and/or  $B + C > 1.0$ , then the followings need to hold true for compliance:

i. A and C are decoupled based on the SPLSR criteria, and

ii.  $(100-x)\% * B + C \leq 1.0$ , and

iii.  $x\% * A + (100-x)\% * B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

**Conclusion:**

- For the verified maximum SAR from chapter 16.1 to 16.4, when the SAR test results were less than original SAR results (Sporton SAR report no.: FA352602), there is no need to consider co-located SAR for original report had been performed conservatively. For the SAR results were higher than original SAR results and full test bands, they were evaluated to do simultaneous transmission analysis with WLAN/BT.

**17.2 Head Exposure Conditions**

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 4	Right Cheek	0.859	0.154	0.240	0.133	1.01	1.10	0.99
	Right Tilted	0.724	0.152	0.264	0.130	0.88	0.99	0.85
	Left Cheek	0.276	0.406	0.351	0.358	0.68	0.63	0.63
	Left Tilted	0.302	0.343	0.393	0.314	0.65	0.70	0.62
LTE Band 41 Ant 4	Right Cheek	0.853	0.154	0.240	0.133	1.01	1.09	0.99
	Right Tilted	0.804	0.152	0.264	0.130	0.96	1.07	0.93
	Left Cheek	0.273	0.406	0.351	0.358	0.68	0.62	0.63
	Left Tilted	0.299	0.343	0.393	0.314	0.64	0.69	0.61
LTE Band 41 Ant 1	Right Cheek	0.423	0.154	0.240	0.133	0.58	0.66	0.56
	Right Tilted	0.327	0.152	0.264	0.130	0.48	0.59	0.46
	Left Cheek	0.749	0.406	0.351	0.358	1.16	1.10	1.11
	Left Tilted	0.219	0.343	0.393	0.314	0.56	0.61	0.53
FR1 n77 Ant 5	Right Cheek	0.691	0.154	0.240	0.133	0.85	0.93	0.82
	Right Tilted	0.797	0.152	0.264	0.130	0.95	1.06	0.93
	Left Cheek	0.867	0.406	0.351	0.358	1.27	1.22	1.23
	Left Tilted	0.900	0.343	0.393	0.314	1.24	1.29	1.21
FR1 n77 Ant 2	Right Cheek	0.118	0.154	0.240	0.133	0.27	0.36	0.25
	Right Tilted	0.084	0.152	0.264	0.130	0.24	0.35	0.21
	Left Cheek	0.065	0.406	0.351	0.358	0.47	0.42	0.42
	Left Tilted	0.008	0.343	0.393	0.314	0.35	0.40	0.32
FR1 n77 Ant 8	Right Cheek	0.158	0.154	0.240	0.133	0.31	0.40	0.29
	Right Tilted	0.165	0.152	0.264	0.130	0.32	0.43	0.30
	Left Cheek	0.224	0.406	0.351	0.358	0.63	0.58	0.58
	Left Tilted	0.211	0.343	0.393	0.314	0.55	0.60	0.53
FR1 n77 Ant 1	Right Cheek	0.311	0.154	0.240	0.133	0.47	0.55	0.44
	Right Tilted	0.352	0.152	0.264	0.130	0.50	0.62	0.48
	Left Cheek	0.512	0.406	0.351	0.358	0.92	0.86	0.87
	Left Tilted	0.240	0.343	0.393	0.314	0.58	0.63	0.55
FR1 n78 Ant 2	Right Cheek	0.227	0.154	0.240	0.133	0.38	0.47	0.36
	Right Tilted	0.127	0.152	0.264	0.130	0.28	0.39	0.26
	Left Cheek	0.094	0.406	0.351	0.358	0.50	0.45	0.45
	Left Tilted	0.011	0.343	0.393	0.314	0.35	0.40	0.33
FR1 n78 Ant 1	Right Cheek	0.319	0.154	0.240	0.133	0.47	0.56	0.45
	Right Tilted	0.335	0.152	0.264	0.130	0.49	0.60	0.47
	Left Cheek	0.473	0.406	0.351	0.358	0.88	0.82	0.83
	Left Tilted	0.235	0.343	0.393	0.314	0.58	0.63	0.55



WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 0	Right Cheek	0.828	0.154	0.240	0.133	0.98	1.07	0.96
	Right Tilted	0.384	0.152	0.264	0.130	0.54	0.65	0.51
	Left Cheek	0.640	0.406	0.351	0.358	1.05	0.99	1.00
	Left Tilted	0.325	0.343	0.393	0.314	0.67	0.72	0.64
GSM1900 Ant 0	Right Cheek	0.252	0.154	0.240	0.133	0.41	0.49	0.39
	Right Tilted	0.121	0.152	0.264	0.130	0.27	0.39	0.25
	Left Cheek	0.138	0.406	0.351	0.358	0.54	0.49	0.50
	Left Tilted	0.143	0.343	0.393	0.314	0.49	0.54	0.46
WCDMA V Ant 0	Right Cheek	0.637	0.154	0.240	0.133	0.79	0.88	0.77
	Right Tilted	0.240	0.152	0.264	0.130	0.39	0.50	0.37
	Left Cheek	0.476	0.406	0.351	0.358	0.88	0.83	0.83
	Left Tilted	0.210	0.343	0.393	0.314	0.55	0.60	0.52
WCDMA II Ant 0	Right Cheek	0.391	0.154	0.240	0.133	0.55	0.63	0.52
	Right Tilted	0.229	0.152	0.264	0.130	0.38	0.49	0.36
	Left Cheek	0.300	0.406	0.351	0.358	0.71	0.65	0.66
	Left Tilted	0.316	0.343	0.393	0.314	0.66	0.71	0.63
LTE Band 2 Ant 4	Right Cheek	0.683	0.154	0.240	0.133	0.84	0.92	0.82
	Right Tilted	0.976	0.152	0.264	0.130	1.13	1.24	1.11
	Left Cheek	0.544	0.406	0.351	0.358	0.95	0.90	0.90
	Left Tilted	0.628	0.343	0.393	0.314	0.97	1.02	0.94
LTE Band 2 Ant 0	Right Cheek	0.350	0.154	0.240	0.133	0.50	0.59	0.48
	Right Tilted	0.163	0.152	0.264	0.130	0.32	0.43	0.29
	Left Cheek	0.201	0.406	0.351	0.358	0.61	0.55	0.56
	Left Tilted	0.219	0.343	0.393	0.314	0.56	0.61	0.53
LTE Band 7 Ant 1	Right Cheek	0.505	0.154	0.240	0.133	0.66	0.75	0.64
	Right Tilted	0.446	0.152	0.264	0.130	0.60	0.71	0.58
	Left Cheek	0.740	0.406	0.351	0.358	1.15	1.09	1.10
	Left Tilted	0.227	0.343	0.393	0.314	0.57	0.62	0.54
LTE Band 42 Ant 5	Right Cheek	0.496	0.154	0.240	0.133	0.65	0.74	0.63
	Right Tilted	0.488	0.152	0.264	0.130	0.64	0.75	0.62
	Left Cheek	0.876	0.406	0.351	0.358	1.28	1.23	1.23
	Left Tilted	0.646	0.343	0.393	0.314	0.99	1.04	0.96
FR1 n26 Ant 4	Right Cheek	0.985	0.154	0.240	0.133	1.14	1.23	1.12
	Right Tilted	0.853	0.152	0.264	0.130	1.01	1.12	0.98
	Left Cheek	0.826	0.406	0.351	0.358	1.23	1.18	1.18
	Left Tilted	0.807	0.343	0.393	0.314	1.15	1.20	1.12



17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 7 Ant 4	Front	0.231	0.600	0.260	0.319	0.83	0.49	0.55	
	Back	0.384	0.728	0.593	0.495	1.11	0.98	0.88	
	Left side	0.188				0.19	0.19	0.19	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side	0.597	0.503	0.739	0.305	1.10	1.34	0.90	
	Bottom side					0.00	0.00	0.00	
LTE Band 41 Ant 4	Front	0.204	0.600	0.260	0.319	0.80	0.46	0.52	
	Back	0.385	0.728	0.593	0.495	1.11	0.98	0.88	
	Left side	0.193				0.19	0.19	0.19	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side	0.635	0.503	0.739	0.305	1.14	1.37	0.94	
	Bottom side					0.00	0.00	0.00	
LTE Band 41 Ant 1	Front	1.076	0.600	0.260	0.319	1.68	1.34	1.40	Case 1
	Back	1.257	0.728	0.593	0.495	1.99	1.85	1.75	Case 2/3/4
	Left side	0.595				0.60	0.60	0.60	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side		0.503	0.739	0.305	0.50	0.74	0.31	
	Bottom side	0.971				0.97	0.97	0.97	
FR1 n77 Ant 5	Front	0.346	0.600	0.260	0.319	0.95	0.61	0.67	
	Back	0.566	0.728	0.593	0.495	1.29	1.16	1.06	
	Left side					0.00	0.00	0.00	
	Right side	0.117	0.459	0.206	0.286	0.58	0.32	0.40	
	Top side	0.389	0.503	0.739	0.305	0.89	1.13	0.69	
	Bottom side					0.00	0.00	0.00	
FR1 n77 Ant 2	Front	0.072	0.600	0.260	0.319	0.67	0.33	0.39	
	Back	0.568	0.728	0.593	0.495	1.30	1.16	1.06	
	Left side	0.158				0.16	0.16	0.16	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side	0.016	0.503	0.739	0.305	0.52	0.76	0.32	
	Bottom side					0.00	0.00	0.00	
FR1 n77 Ant 8	Front	0.059	0.600	0.260	0.319	0.66	0.32	0.38	
	Back	0.604	0.728	0.593	0.495	1.33	1.20	1.10	
	Left side					0.00	0.00	0.00	
	Right side	0.138	0.459	0.206	0.286	0.60	0.34	0.42	
	Top side	0.015	0.503	0.739	0.305	0.52	0.75	0.32	
	Bottom side					0.00	0.00	0.00	
FR1 n77 Ant 1	Front	1.235	0.600	0.260	0.319	1.84	1.50	1.55	Case 5
	Back	1.274	0.728	0.593	0.495	2.00	1.87	1.77	Case 6/7/8
	Left side	0.799				0.80	0.80	0.80	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side		0.503	0.739	0.305	0.50	0.74	0.31	
	Bottom side	0.751				0.75	0.75	0.75	





WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 26 Ant 0	Front	0.535	0.600	0.260	0.319	1.14	0.80	0.85	
	Back	1.179	0.728	0.593	0.495	1.91	1.77	1.67	Case 14/15/16
	Left side	0.274				0.27	0.27	0.27	
	Right side	0.509	0.459	0.206	0.286	0.97	0.72	0.80	
	Top side		0.503	0.739	0.305	0.50	0.74	0.31	
	Bottom side	1.044				1.04	1.04	1.04	
LTE Band 2 Ant 4	Front	0.356	0.600	0.260	0.319	0.96	0.62	0.68	
	Back	0.429	0.728	0.593	0.495	1.16	1.02	0.92	
	Left side	0.085				0.09	0.09	0.09	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side	0.614	0.503	0.739	0.305	1.12	1.35	0.92	
	Bottom side					0.00	0.00	0.00	
LTE Band 2 Ant 0	Front	0.533	0.600	0.260	0.319	1.13	0.79	0.85	
	Back	0.836	0.728	0.593	0.495	1.56	1.43	1.33	
	Left side	0.065				0.07	0.07	0.07	
	Right side	0.159	0.459	0.206	0.286	0.62	0.37	0.45	
	Top side		0.503	0.739	0.305	0.50	0.74	0.31	
	Bottom side	1.076				1.08	1.08	1.08	
FR1 n26 Ant 4	Front	0.195	0.600	0.260	0.319	0.80	0.46	0.51	
	Back	0.660	0.728	0.593	0.495	1.39	1.25	1.16	
	Left side	0.075				0.08	0.08	0.08	
	Right side		0.459	0.206	0.286	0.46	0.21	0.29	
	Top side	0.421	0.503	0.739	0.305	0.92	1.16	0.73	
	Bottom side					0.00	0.00	0.00	



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 7 Ant 4	Front	0.465	0.322	0.228	0.319	0.79	0.69	0.78	
	Back	0.840	0.390	0.397	0.495	1.23	1.24	1.34	
LTE Band 41 Ant 4	Front	0.336	0.322	0.228	0.319	0.66	0.56	0.66	
	Back	0.880	0.390	0.397	0.495	1.27	1.28	1.38	
LTE Band 41 Ant 1	Front	1.076	0.322	0.228	0.319	1.40	1.30	1.40	
	Back	1.257	0.390	0.397	0.495	<b>1.65</b>	<b>1.65</b>	<b>1.75</b>	Case 9/10/11
FR1 n77 Ant 5	Front	0.509	0.322	0.228	0.319	0.83	0.74	0.83	
	Back	0.814	0.390	0.397	0.495	1.20	1.21	1.31	
FR1 n77 Ant 2	Front	0.064	0.322	0.228	0.319	0.39	0.29	0.38	
	Back	0.933	0.390	0.397	0.495	1.32	1.33	1.43	
FR1 n77 Ant 8	Front	0.073	0.322	0.228	0.319	0.40	0.30	0.39	
	Back	0.906	0.390	0.397	0.495	1.30	1.30	1.40	
FR1 n77 Ant 1	Front	0.901	0.322	0.228	0.319	1.22	1.13	1.22	
	Back	0.930	0.390	0.397	0.495	1.32	1.33	1.43	

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM1900 Ant 0	Front	0.782	0.322	0.228	0.319	1.10	1.01	1.10	
	Back	1.078	0.390	0.397	0.495	1.47	1.48	<b>1.57</b>	
LTE Band 26 Ant 0	Front	0.535	0.322	0.228	0.319	0.86	0.76	0.85	
	Back	1.179	0.390	0.397	0.495	<b>1.57</b>	<b>1.58</b>	<b>1.67</b>	Case 48
LTE Band 2 Ant 4	Front	0.696	0.322	0.228	0.319	1.02	0.92	1.02	
	Back	0.805	0.390	0.397	0.495	1.20	1.20	1.30	
LTE Band 2 Ant 0	Front	0.782	0.322	0.228	0.319	1.10	1.01	1.10	
	Back	1.136	0.390	0.397	0.495	1.53	1.53	<b>1.63</b>	Case 54
LTE Band 42 Ant 5	Front	0.413	0.322	0.228	0.319	0.74	0.64	0.73	
	Back	1.004	0.390	0.397	0.495	1.39	1.40	1.50	
FR1 n7 Ant 4	Front	0.590	0.322	0.228	0.319	0.91	0.82	0.91	
	Back	0.936	0.390	0.397	0.495	1.33	1.33	1.43	
FR1 n41 Ant 4	Front	0.570	0.322	0.228	0.319	0.89	0.80	0.89	
	Back	0.999	0.390	0.397	0.495	1.39	1.40	1.49	



<Sensor off>

WWAN Band	Exposure Position	1	3	4	1+3	1+4
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 4	Front	0.683	0.270	0.438	0.95	1.12
	Back	0.527	0.149	0.445	0.68	0.97
LTE Band 41 Ant 4	Front	0.766	0.270	0.438	1.04	1.20
	Back	0.582	0.149	0.445	0.73	1.03
LTE Band 41 Ant 1	Front	0.369	0.270	0.438	0.64	0.81
	Back	0.236	0.149	0.445	0.39	0.68
FR1 n77 Ant 5	Front	0.893	0.270	0.438	1.16	1.33
	Back	0.453	0.149	0.445	0.60	0.90
FR1 n77 Ant 2	Front	0.046	0.270	0.438	0.32	0.48
	Back	0.158	0.149	0.445	0.31	0.60
FR1 n77 Ant 8	Front	0.071	0.270	0.438	0.34	0.51
	Back	0.824	0.149	0.445	0.97	1.27
FR1 n77 Ant 1	Front	0.515	0.270	0.438	0.79	0.95
	Back	0.292	0.149	0.445	0.44	0.74



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.

WWAN Band	Exposure Position	1	3	4	5	1+3+5	1+4+5
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	NFC	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 7 Ant 4	Front	1.903		0.728		1.90	2.63
	Back	2.411	0.946	0.804	0.023	3.38	3.24
	Left side	1.720				1.72	1.72
	Right side			0.182		0.00	0.18
	Top side	1.655		0.995		1.66	2.65
	Bottom side					0.00	0.00
LTE Band 41 Ant 4	Front	1.912		0.728		1.91	2.64
	Back	2.268	0.946	0.804	0.023	3.24	3.10
	Left side	1.282				1.28	1.28
	Right side			0.182		0.00	0.18
	Top side	1.437		0.995		1.44	2.43
	Bottom side					0.00	0.00
LTE Band 41 Ant 1	Front	3.140		0.728		3.14	3.87
	Back	2.947	0.946	0.804	0.023	3.92	3.77
	Left side	1.597				1.60	1.60
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side	1.124				1.12	1.12
FR1 n77 Ant 5	Front	2.120		0.728		2.12	2.85
	Back	1.293	0.946	0.804	0.023	2.26	2.12
	Left side					0.00	0.00
	Right side	1.473		0.182		1.47	1.66
	Top side	1.958		0.995		1.96	2.95
	Bottom side					0.00	0.00
FR1 n77 Ant 2	Front			0.728		0.00	0.73
	Back	2.246	0.946	0.804	0.023	3.22	3.07
	Left side					0.00	0.00
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side					0.00	0.00
FR1 n77 Ant 8	Front			0.728		0.00	0.73
	Back	2.463	0.946	0.804	0.023	3.43	3.29
	Left side					0.00	0.00
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side					0.00	0.00
FR1 n77 Ant 1	Front	1.959		0.728		1.96	2.69
	Back	2.867	0.946	0.804	0.023	3.84	3.69
	Left side	1.816				1.82	1.82
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side	1.440				1.44	1.44
FR1 n78 Ant 5	Front			0.728		0.00	0.73
	Back		0.946	0.804	0.023	0.97	0.83
	Left side					0.00	0.00
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side					0.00	0.00



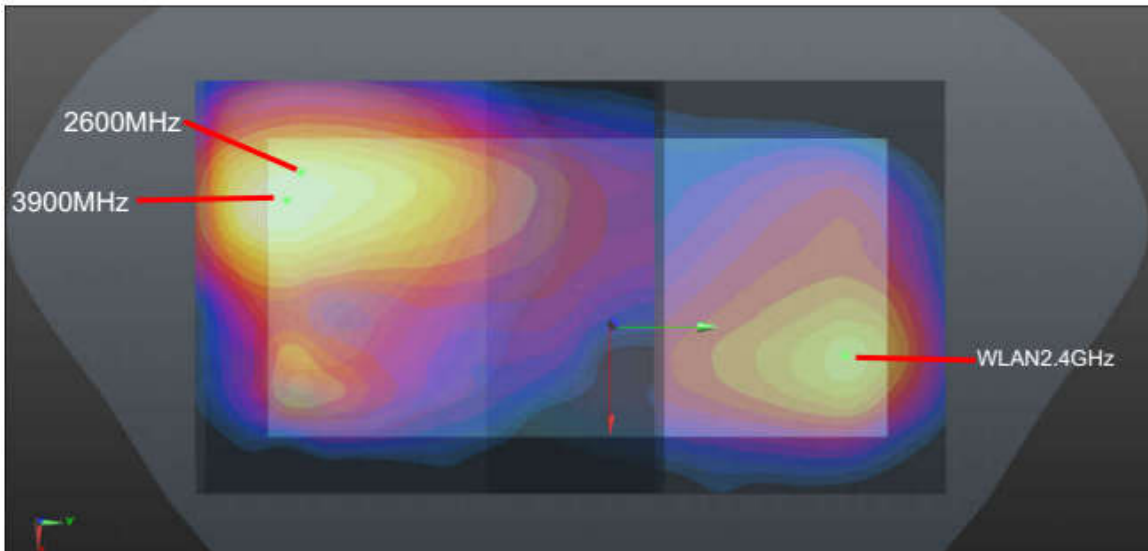
FR1 n78 Ant 2	Front			0.728		0.00	0.73
	Back		0.946	0.804	0.023	0.97	0.83
	Left side					0.00	0.00
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side					0.00	0.00
FR1 n78 Ant 8	Front			0.728		0.00	0.73
	Back		0.946	0.804	0.023	0.97	0.83
	Left side					0.00	0.00
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side					0.00	0.00
FR1 n78 Ant 1	Front	1.602		0.728		1.60	2.33
	Back	2.831	0.946	0.804	0.023	3.80	3.66
	Left side	1.540				1.54	1.54
	Right side			0.182		0.00	0.18
	Top side			0.995		0.00	1.00
	Bottom side	1.230				1.23	1.23

WWAN Band		Exposure Position	1	3	4	5	1+3+5	1+4+5
			WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	NFC	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
GSM	WCDMA V Ant 0	Front			0.728		0.00	0.73
		Back	2.866	0.946	0.804	0.023	3.84	3.69
		Left side					0.00	0.00
		Right side			0.182		0.00	0.18
		Top side			0.995		0.00	1.00
		Bottom side	3.165				3.17	3.17
WCDMA	LTE Band 2 Ant 4	Front	1.398		0.728		1.40	2.13
		Back	1.552	0.946	0.804	0.023	2.52	2.38
		Left side					0.00	0.00
		Right side			0.182		0.00	0.18
		Top side	2.481		0.995		2.48	3.48
		Bottom side					0.00	0.00
	LTE Band 2 Ant 0	Front	1.987		0.728		1.99	2.72
		Back	2.718	0.946	0.804	0.023	3.69	3.55
		Left side					0.00	0.00
		Right side			0.182		0.00	0.18
		Top side			0.995		0.00	1.00
		Bottom side	2.839				2.84	2.84
CDMA	LTE Band 42 Ant 5	Front	2.478		0.728		2.48	3.21
		Back	1.758	0.946	0.804	0.023	2.73	2.59
		Left side					0.00	0.00
		Right side			0.182		0.00	0.18
		Top side	1.772		0.995		1.77	2.77
		Bottom side					0.00	0.00
LTE	FR1 n7 Ant 4	Front	1.982		0.728		1.98	2.71
		Back	2.495	0.946	0.804	0.023	3.46	3.32
		Left side	1.767				1.77	1.77
		Right side			0.182		0.00	0.18
		Top side	1.731		0.995		1.73	2.73
		Bottom side					0.00	0.00

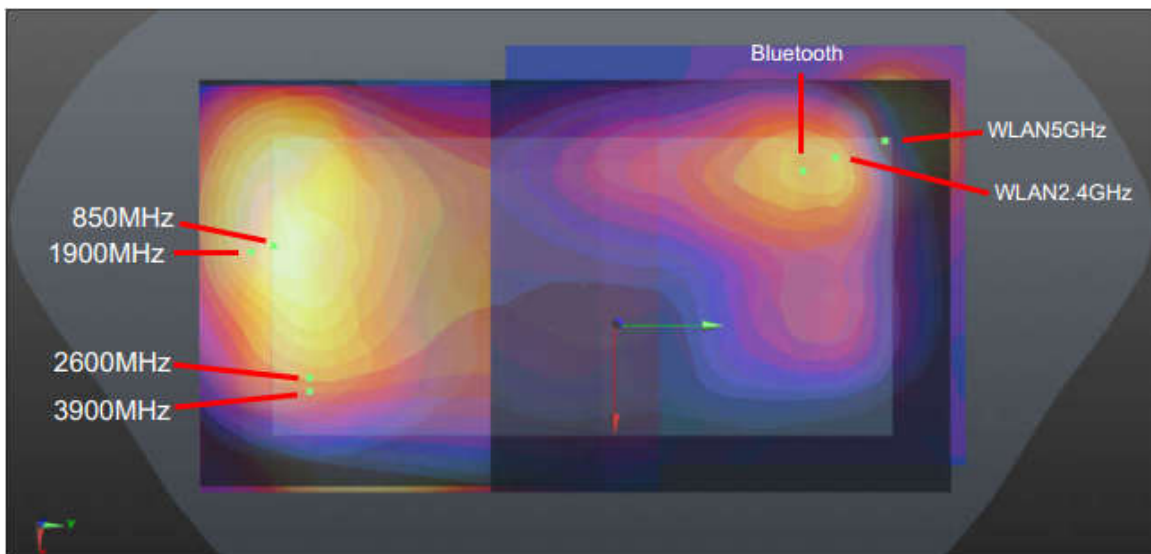
### 17.6 SPLSR Evaluation and Analysis

**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, simultaneously transmission SAR measurement is not necessary.



Front 5mm for Hotspot



Back 5mm for Hotspot&Body-worn





<Hotspot SAR>

Case No	Band	Position	SAR	Summed	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			1g SAR (W/kg)	1g SAR (W/kg)		X	Y	Z				
Case 1	LTE Band 41 Ant 1	Front	1.076	1.676	5mm	-0.052	-0.0773	-0.205	156.2	1.68	0.01	Not required
	WLAN2.4GHz Ant 6		0.600		5mm	0.001	0.070	-0.205				
Case 2	LTE Band 41 Ant 1	Back	1.257	1.985	5mm	0.0062	-0.0724	-0.206	150.6	1.99	0.02	Not required
	WLAN2.4GHz Ant 6		0.728		5mm	-0.050	0.067	-0.206				
Case 3	LTE Band 41 Ant 1	Back	1.257	1.850	5mm	0.0062	-0.0724	-0.206	161.8	1.85	0.02	Not required
	WLAN5GHz Ant 6		0.593		5mm	-0.056	0.077	-0.206				
Case 4	LTE Band 41 Ant 1	Back	1.257	1.752	5mm	0.0062	-0.0724	-0.206	152.5	1.75	0.02	Not required
	Bluetooth Ant 6		0.495		5mm	-0.0416	0.0724	-0.206				
Case 5	FR1 n77 Ant 1	Front	1.235	1.835	5mm	0.013	-0.0736	-0.207	143.7	1.84	0.02	Not required
	WLAN2.4GHz Ant 6		0.600		5mm	0.001	0.070	-0.205				
Case 6	FR1 n77 Ant 1	Back	1.274	2.002	5mm	0.0118	-0.0746	-0.207	154.8	2.00	0.02	Not required
	WLAN2.4GHz Ant 6		0.728		5mm	-0.050	0.067	-0.206				
Case 7	FR1 n77 Ant 1	Back	1.274	1.867	5mm	0.0118	-0.0746	-0.207	166.1	1.87	0.02	Not required
	WLAN5GHz Ant 6		0.593		5mm	-0.056	0.077	-0.206				
Case 8	FR1 n77 Ant 1	Back	1.274	1.769	5mm	0.0118	-0.0746	-0.207	156.4	1.77	0.02	Not required
	Bluetooth Ant 6		0.495		5mm	-0.0416	0.0724	-0.206				

Case No	Band	Position	SAR	Summed	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
			1g SAR (W/kg)	1g SAR (W/kg)		X	Y	Z				
Case 14	LTE Band 26 Ant 0	Back	1.179	1.907	5mm	-0.0285	-0.0788	-0.205	147.6	1.91	0.02	Not required
	WLAN2.4GHz Ant 6		0.728		5mm	-0.050	0.067	-0.206				
Case 15	LTE Band 26 Ant 0	Back	1.179	1.772	5mm	-0.0285	-0.0788	-0.205	158.2	1.77	0.01	Not required
	WLAN5GHz Ant 6		0.593		5mm	-0.056	0.077	-0.206				
Case 16	LTE Band 26 Ant 0	Back	1.179	1.674	5mm	-0.0285	-0.0788	-0.205	151.8	1.67	0.01	Not required
	Bluetooth Ant 6		0.495		5mm	-0.0416	0.0724	-0.206				



<Body-worn SAR>

Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distanc e (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 9	LTE Band 41 Ant 1	Back	1.257	1.647	5mm	0.0062	-0.0724	-0.206	150.5	1.65	0.01	Not required
	WLAN2.4GHz Ant 6		0.390		5mm	-0.047	0.0684	-0.205				
Case 10	LTE Band 41 Ant 1	Back	1.257	1.654	5mm	0.0062	-0.0724	-0.206	164.1	1.65	0.01	Not required
	WLAN5GHz Ant 6		0.397		5mm	-0.052	0.081	-0.206				
Case 11	LTE Band 41 Ant 1	Back	1.257	1.752	5mm	0.0062	-0.0724	-0.206	152.5	1.75	0.02	Not required
	Bluetooth Ant 6		0.495		5mm	-0.0416	0.0724	-0.206				

Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 48	LTE Band 26 Ant 0	Back	1.179	1.674	5mm	-0.0285	-0.0788	-0.205	151.8	1.67	0.01	Not required
	Bluetooth Ant 6		0.495		5mm	-0.0416	0.0724	-0.206				

Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 54	LTE Band 2 Ant 0	Back	1.136	1.631	5mm	-0.0337	-0.0875	-0.205	160.1	1.63	0.01	Not required
	Bluetooth Ant 6		0.495		5mm	-0.0416	0.0724	-0.206				

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



## **18. 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.

## **19. 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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