



FCC SAR Test Report

Report No. : FA192317-02

FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	22.43	24.00	1.435	-	-	0.02	0.328	0.471
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	22.67	24.00	1.358	-	-	-0.01	0.338	0.459
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	22.43	24.00	1.435	-	-	0.03	0.336	0.482
FR1 n77 Part27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	25.26	27.00	1.493	50	1.000	-0.05	0.423	0.631
Smart Folio and stylus mode																			
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	19.97	20.60	1.156	-	-	0.04	0.988	1.142
FR1 n77 Part27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	25.26	27.00	1.493	50	1.000	0.06	0.388	0.579

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Pmax (dBm)	Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500~3900MHz for SRS Ant																		
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	23.04	23.00	10	0.02	0.014	0.003
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	22.70	23.00	10	0.02	0.012	0.003
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	656000	3840	23.04	23.00	10	0.09	0.010	0.002
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	656000	3840	22.70	23.00	10	-0.03	0.009	0.002
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	656000	3840	23.04	23.00	10	0.07	0.006	0.001
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	656000	3840	22.70	23.00	10	0.04	0.003	0.001
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	656000	3840	23.04	23.00	10	0.05	0.005	0.001
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	656000	3840	22.70	23.00	10	-0.03	0.002	0.000
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	26.00	23.00	10	0.01	0.015	0.002
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	23.02	23.00	10	0.09	0.011	0.002
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.65	23.00	10	0.03	0.009	0.002
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	23.02	23.00	10	0.04	0.007	0.001
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.65	23.00	10	0.08	0.006	0.001
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	23.02	23.00	10	0.02	0.008	0.002
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.65	23.00	10	0.06	0.005	0.001
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	23.02	23.00	10	-0.02	0.004	0.001
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.65	23.00	10	0.04	0.002	0.000
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	25.91	23.00	10	0.09	0.012	0.001
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	23.09	23.00	10	0.04	0.003	0.001
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	22.88	23.00	10	0.05	0.001	0.000
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	23.09	23.00	10	-0.03	0.003	0.001
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	22.88	23.00	10	0.08	0.002	0.000
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	23.09	23.00	10	0.02	0.002	0.000
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	22.88	23.00	10	0.06	0.001	0.000
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	23.09	23.00	10	0.09	0.003	0.001
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	22.88	23.00	10	0.04	0.002	0.000
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	26.32	23.00	10	-0.03	0.003	0.000
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	22.99	23.00	10	-0.04	0.003	0.001
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	22.82	23.00	10	0.05	0.002	0.000
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	22.99	23.00	10	-0.08	0.003	0.001
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	22.82	23.00	10	-0.02	0.001	0.000
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	22.99	23.00	10	-0.08	0.003	0.001
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	22.82	23.00	10	0.03	0.002	0.000
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	22.99	23.00	10	-0.07	0.002	0.000
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	22.82	23.00	10	0.04	0.001	0.000
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	26.23	23.00	10	-0.08	0.004	0.000
Smart Folio and stylus mode																		
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	23.04	23.00	10	-0.01	0.011	0.002
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	23.09	23.00	10	-0.03	0.001	0.000



Plot No.	Band	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)	Reported 1g SAR (W/kg)
WLAN/Bluetooth																
16	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	11	2462	21.05	22.00	1.245	97.87	1.022	0.07	0.988	1.257
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	11	2462	21.05	22.00	1.245	97.87	1.022	0.03	0.901	1.146
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+6	Standalone	11	2462	21.05	22.00	1.245	97.87	1.022	0.06	0.471	0.599
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+6	Standalone	11	2462	21.05	22.00	1.245	97.87	1.022	0.04	0.484	0.616
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	1	2412	20.89	21.50	1.151	97.87	1.022	-0.02	0.928	1.091
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+6	Standalone	1	2412	20.89	21.50	1.151	97.87	1.022	0.03	0.856	1.007
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Simultaneous For DBS Only	11	2462	17.13	18.50	1.371	97.87	1.022	0.01	0.524	0.734
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Simultaneous WWAN + Non-DBS	11	2462	17.55	19.00	1.396	97.87	1.022	-0.05	0.400	0.571
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Simultaneous For WWAN+DBS	11	2462	14.88	16.00	1.294	97.87	1.022	0.04	0.218	0.288
Smart Folio and stylus mode																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	Standalone	11	2462	21.05	22.00	1.245	97.87	1.022	0.05	0.918	1.168
17	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.03	0.196	0.285
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.02	0.192	0.279
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.06	0.110	0.160
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	-0.04	0.102	0.148
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.01	0.002	0.003
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.06	0.000	0.000
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.03	0.000	0.000
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.04	0.000	0.000
Smart Folio and stylus mode																
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.07	0.186	0.270
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.01	0.001	0.002
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+6	Standalone	38	5190	19.97	21.50	1.422	100	1.000	0.03	0.561	0.798
18	WLAN5.2GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+6	Standalone	38	5190	19.97	21.50	1.422	100	1.000	-0.08	0.687	0.977
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+6	Standalone	38	5190	19.97	21.50	1.422	100	1.000	0.04	0.405	0.576
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+6	Standalone	38	5190	19.97	21.50	1.422	100	1.000	0.09	0.521	0.741
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+6	Standalone	46	5230	19.12	21.00	1.542	100	1.000	0.06	0.620	0.956
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Simultaneous For DBS Only	42	5210	17.42	18.50	1.282	100	1.000	-0.02	0.499	0.640
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Simultaneous For WWAN+DBS&WWAN+ Non-DBS	42	5210	14.87	16.00	1.297	100	1.000	0.09	0.200	0.259
	WLAN5.5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5+6	Full	124	5620	21.07	22.50	1.389	100	1.000	0.06	0.785	1.090
19	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	Full	124	5620	21.07	22.50	1.389	100	1.000	0.07	0.863	1.199
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5+6	Full	124	5620	21.07	22.50	1.389	100	1.000	0.03	0.658	0.914
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5+6	Full	124	5620	21.07	22.50	1.389	100	1.000	-0.06	0.855	1.188
	WLAN5.5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5+6	Full	116	5580	21.06	22.50	1.393	100	1.000	0.05	0.736	1.025
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	Full	116	5580	21.06	22.50	1.393	100	1.000	0.06	0.816	1.137
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5+6	Full	116	5580	21.06	22.50	1.393	100	1.000	-0.03	0.611	0.851
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5+6	Full	116	5580	21.06	22.50	1.393	100	1.000	0.02	0.787	1.096
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Simultaneous For DBS Only	106	5530	18.98	20.50	1.418	100	1.000	0.05	0.516	0.732
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+6	Simultaneous For WWAN+DBS&WWAN+ Non-DBS	106	5530	14.80	16.00	1.318	100	1.000	-0.01	0.199	0.262
Smart Folio and stylus mode																
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	Full	124	5620	21.07	22.50	1.389	100	1.000	0.02	0.789	1.096
20	WLAN5.8GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5+6	Standalone	165	5825	20.86	22.00	1.300	100	1.000	0.07	0.805	1.047
	WLAN5.8GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	Standalone	165	5825	20.86	22.00	1.300	100	1.000	0.03	0.783	1.018
	WLAN5.8GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5+6	Standalone	165	5825	20.86	22.00	1.300	100	1.000	0.04	0.533	0.693
	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5+6	Standalone	165	5825	20.86	22.00	1.300	100	1.000	-0.02	0.605	0.787
	WLAN5.8GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5+6	Standalone	157	5785	20.58	22.00	1.387	100	1.000	0.06	0.701	0.972
	WLAN5.8GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	Standalone	157	5785	20.58	22.00	1.387	100	1.000	0.02	0.731	1.014
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Simultaneous For DBS Only	155	5775	18.31	19.50	1.315	100	1.000	0.01	0.524	0.689
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+6	Simultaneous For WWAN+DBS&WWAN+ Non-DBS	155	5775	14.20	15.50	1.349	100	1.000	0.08	0.202	0.272



16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																	
21	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 4	23095	707.5	22.76	24.00	1.330	0.03	0.388	0.516
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 4	23095	707.5	22.75	24.00	1.334	0.01	0.308	0.411
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 4	23095	707.5	22.76	24.00	1.330	-0.15	0.764	1.016
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 4	23095	707.5	22.75	24.00	1.334	0.06	0.707	0.943
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 0	DSI 4	23095	707.5	22.75	24.00	1.334	0.06	0.726	0.968
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 4	23095	707.5	22.76	24.00	1.330	0.08	0.161	0.214
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI 4	23095	707.5	22.75	24.00	1.334	0.05	0.130	0.173
	LTE Band 12	10M	QPSK	1	0	Right Side	5mm	Ant 0	DSI 4	23095	707.5	22.76	24.00	1.330	0.03	0.311	0.414
	LTE Band 12	10M	QPSK	25	0	Right Side	5mm	Ant 0	DSI 4	23095	707.5	22.75	24.00	1.334	0.08	0.251	0.335
	LTE Band 12	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 4	23095	707.5	22.76	24.00	1.330	0.04	0.483	0.643
	LTE Band 12	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI 4	23095	707.5	22.75	24.00	1.334	0.06	0.379	0.505
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 4	23095	707.5	24.38	25.00	1.153	0.03	0.217	0.250
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 4	23095	707.5	23.41	24.00	1.146	0.04	0.174	0.199
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 4	23095	707.5	24.38	25.00	1.153	-0.1	0.338	0.390
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 4	23095	707.5	23.41	24.00	1.146	-0.02	0.261	0.299
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 4	23095	707.5	24.38	25.00	1.153	0.08	0.109	0.126
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 4	23095	707.5	23.41	24.00	1.146	0.05	0.088	0.101
	LTE Band 12	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 4	23095	707.5	24.38	25.00	1.153	0.03	0.204	0.235
	LTE Band 12	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 4	23095	707.5	23.41	24.00	1.146	0.08	0.162	0.186
	LTE Band 12	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 4	23095	707.5	24.38	25.00	1.153	0.04	0.446	0.514
	LTE Band 12	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI 4	23095	707.5	23.41	24.00	1.146	0.06	0.310	0.355
Smart Folio mode																	
22	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 4	23095	707.5	22.76	24.00	1.330	0.01	0.587	0.781
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 4	23230	782	22.97	24.00	1.268	-0.01	0.388	0.492
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 4	23230	782	22.81	24.00	1.315	-0.03	0.305	0.401
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 4	23230	782	22.97	24.00	1.268	-0.02	0.678	0.859
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 4	23230	782	22.81	24.00	1.315	0.08	0.639	0.840
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 0	DSI 4	23230	782	22.78	24.00	1.324	-0.02	0.602	0.797
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 4	23230	782	22.97	24.00	1.268	0.05	0.107	0.136
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI 4	23230	782	22.81	24.00	1.315	0.03	0.085	0.112
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 0	DSI 4	23230	782	22.97	24.00	1.268	0.08	0.189	0.240
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 0	DSI 4	23230	782	22.81	24.00	1.315	0.04	0.149	0.196
	LTE Band 13	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 4	23230	782	22.97	24.00	1.268	0.04	0.485	0.615
	LTE Band 13	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI 4	23230	782	22.81	24.00	1.315	-0.03	0.405	0.533
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 4	23230	782	24.33	25.00	1.167	0.09	0.421	0.491
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 4	23230	782	23.41	25.00	1.442	0.04	0.343	0.495
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 4	23230	782	24.33	25.00	1.167	-0.12	0.430	0.502
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 4	23230	782	23.41	25.00	1.442	-0.03	0.378	0.545
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 4	23230	782	24.33	25.00	1.167	0.01	0.186	0.217
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 4	23230	782	23.41	25.00	1.442	0.05	0.162	0.234
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 4	23230	782	24.33	25.00	1.167	0.03	0.346	0.404
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 4	23230	782	23.41	25.00	1.442	0.04	0.300	0.433
	LTE Band 13	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 4	23230	782	24.33	25.00	1.167	-0.08	0.568	0.663
	LTE Band 13	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI 4	23230	782	23.41	25.00	1.442	0.08	0.508	0.733



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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
835MHz																		
23	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.03	0.501	0.638
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.01	0.795	1.012
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	128	824.2	24.62	25.80	1.312	-0.02	0.764	1.003
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	251	848.8	24.36	25.80	1.393	0.08	0.710	0.989
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.05	0.092	0.117
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.03	0.210	0.267
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.04	0.421	0.536
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	0.02	0.527	0.629
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	-0.11	0.665	0.794
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Left Side	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	0.04	0.163	0.195
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Right Side	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	-0.03	0.287	0.343
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	0.05	0.688	0.821
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3 Simultaneous	128	824.2	26.86	27.70	1.213	0.03	0.741	0.899
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	5mm	Ant 1	DSI 3 Simultaneous	251	848.8	26.92	27.70	1.197	-0.13	0.785	0.939
24	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	0.01	0.599	0.632
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.96	22.20	1.057	0.06	0.394	0.416
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	-0.05	0.800	0.844
	LTE_CA_5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	DSI 3 Simultaneous	20525+20597	836.5+843.7	21.20	22.20	1.259	-0.04	0.656	0.826
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.96	22.20	1.057	0.08	0.769	0.813
	LTE Band 5	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.93	22.20	1.064	0.08	0.727	0.774
	LTE Band 5	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	0.04	0.086	0.091
	LTE Band 5	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.96	22.20	1.057	0.04	0.070	0.074
	LTE Band 5	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	-0.03	0.146	0.154
	LTE Band 5	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.96	22.20	1.057	0.05	0.126	0.133
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	0.06	0.542	0.571
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	20525	836.5	21.96	22.20	1.057	0.03	0.420	0.444
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	0.02	0.482	0.533
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.58	23.10	1.127	0.06	0.428	0.482
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	0.08	0.612	0.677
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.58	23.10	1.127	0.03	0.593	0.668
	LTE Band 5	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	0.01	0.132	0.146
	LTE Band 5	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.58	23.10	1.127	0.02	0.109	0.123
	LTE Band 5	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	-0.03	0.281	0.311
	LTE Band 5	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.58	23.10	1.127	0.05	0.219	0.247
	LTE Band 5	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	0.03	0.847	0.937
	LTE_CA_5B	10M	QPSK	1	49	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20525+20597	836.5+843.7	22.26	23.10	1.213	0.01	0.711	0.863
	LTE Band 5	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.58	23.10	1.127	-0.13	0.775	0.874
	LTE Band 5	10M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20525	836.5	22.53	23.10	1.140	0.02	0.748	0.853
25	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	21.98	22.20	1.052	0.08	0.449	0.472
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	21.98	22.20	1.052	0.04	0.723	0.761
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	21.98	22.20	1.052	0.04	0.080	0.084
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	21.98	22.20	1.052	-0.03	0.124	0.130
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	4182	836.4	21.98	22.20	1.052	0.06	0.455	0.479
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	23.77	24.50	1.183	0.04	0.399	0.472
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	23.77	24.50	1.183	0.01	0.522	0.618
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	23.77	24.50	1.183	0.05	0.123	0.146
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	23.77	24.50	1.183	-0.13	0.258	0.305
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3 Simultaneous	4182	836.4	23.77	24.50	1.183	0.02	0.751	0.888
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3 Simultaneous	4132	826.4	23.51	24.50	1.256	0.04	0.730	0.917
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3 Simultaneous	4233	846.6	23.58	24.50	1.236	-0.08	0.780	0.964
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	0.06	0.368	0.512



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	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.95	23.50	1.429	0.04	0.359	0.513
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	-0.03	0.644	0.895
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.95	23.50	1.429	0.06	0.597	0.853
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.91	23.50	1.442	0.08	0.588	0.848
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	0.03	0.074	0.103
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.95	23.50	1.429	0.04	0.072	0.103
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	0.01	0.145	0.202
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.95	23.50	1.429	0.02	0.138	0.197
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	-0.03	0.312	0.434
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	167300	836.5	21.95	23.50	1.429	0.05	0.306	0.437
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 4	167300	836.5	22.55	24.00	1.396	0.02	0.377	0.526
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 4	167300	836.5	22.33	24.00	1.469	-0.03	0.385	0.566
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 4	167300	836.5	22.55	24.00	1.396	0.05	0.447	0.624
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 4	167300	836.5	22.33	24.00	1.469	-0.13	0.489	0.718
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 4	167300	836.5	22.55	24.00	1.396	0.02	0.159	0.222
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 4	167300	836.5	22.33	24.00	1.469	0.04	0.158	0.232
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 4	167300	836.5	22.55	24.00	1.396	0.02	0.393	0.549
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 4	167300	836.5	22.33	24.00	1.469	-0.03	0.364	0.535
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 4	167300	836.5	22.55	24.00	1.396	0.05	0.696	0.972
26	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 4	167300	836.5	22.33	24.00	1.469	0.03	0.701	1.030
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 4	167300	836.5	22.29	24.00	1.483	0.05	0.624	0.925
Smart Folio mode																		
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 4	167300	836.5	22.33	24.00	1.469	0.01	0.563	0.827

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
1750MHz																		
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	0.02	0.505	0.573
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.41	16.00	1.146	-0.13	0.393	0.450
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	0.02	0.584	0.663
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.41	16.00	1.146	0.04	0.458	0.525
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	-0.13	0.024	0.027
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.41	16.00	1.146	0.02	0.019	0.022
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	0.04	0.039	0.044
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.41	16.00	1.146	0.02	0.031	0.036
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	0.02	0.779	0.884
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	15.28	16.00	1.180	0.04	0.785	0.927
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132572	1770	15.29	16.00	1.178	0.02	0.785	0.924
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.41	16.00	1.146	0.04	0.781	0.895
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132072	1720	15.26	16.00	1.186	0.05	0.765	0.907
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132572	1770	15.40	16.00	1.148	-0.02	0.811	0.931
	LTE_CA_66C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132374	1750.2	15.01	16.20	1.315	-0.02	0.669	0.880
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	132322	1745	15.38	16.00	1.153	0.07	0.774	0.893
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.81	17.70	1.227	0.02	0.620	0.761
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.76	17.70	1.242	0.02	0.496	0.616
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.81	17.70	1.227	0.07	0.696	0.854
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132072	1720	16.53	17.70	1.309	-0.08	0.624	0.817
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132572	1770	16.53	17.70	1.309	0.03	0.682	0.893
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.76	17.70	1.242	0.02	0.631	0.783
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.78	17.70	1.236	0.02	0.627	0.775
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.81	17.70	1.227	0.05	0.018	0.022
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.76	17.70	1.242	-0.02	0.015	0.019
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.81	17.70	1.227	0.07	0.094	0.115
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.76	17.70	1.242	0.03	0.093	0.115
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.81	17.70	1.227	0.02	0.759	0.932
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132072	1720	16.53	17.70	1.309	0.04	0.704	0.922

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	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132572	1770	16.53	17.70	1.309	0.05	0.718	0.940
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.76	17.70	1.242	0.02	0.739	0.918
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132072	1720	16.43	17.70	1.340	0.05	0.698	0.935
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132572	1770	16.54	17.70	1.306	-0.02	0.715	0.934
27	LTE Band 66	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322	1745	16.78	17.70	1.236	-0.02	0.763	0.943
	LTE_CA_66C	20M	QPSK	1	99	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	132322+132520	1745+1764.8	16.31	17.70	1.377	-0.02	0.629	0.866
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.49	16.70	1.321	0.02	0.338	0.447
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	0.04	0.347	0.470
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.49	16.70	1.321	-0.02	0.379	0.501
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	0.07	0.434	0.588
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.49	16.70	1.321	0.03	0.024	0.032
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	-0.13	0.025	0.034
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.49	16.70	1.321	0.02	0.032	0.042
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	-0.02	0.033	0.045
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.49	16.70	1.321	0.02	0.623	0.823
28	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	0.02	0.678	0.919
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	349000	1745	15.33	16.70	1.371	0.02	0.603	0.827
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	16.02	16.70	1.169	-0.02	0.435	0.509
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	0.02	0.484	0.577
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	16.02	16.70	1.169	0.07	0.509	0.595
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	-0.08	0.586	0.698
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	16.02	16.70	1.169	0.05	0.012	0.014
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	0.04	0.015	0.018
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	16.02	16.70	1.169	0.05	0.104	0.122
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	0.02	0.114	0.136
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	16.02	16.70	1.169	0.05	0.788	0.922
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	-0.02	0.777	0.926
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	349000	1745	15.82	16.70	1.225	-0.02	0.754	0.923
1900MHz																		
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI 3 Simultaneous	661	1880	17.77	19.00	1.327	-0.02	0.342	0.454
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI 3 Simultaneous	661	1880	17.77	19.00	1.327	0.07	0.377	0.500
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	17.77	19.00	1.327	-0.02	0.021	0.028
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	17.77	19.00	1.327	-0.02	0.022	0.029
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	17.77	19.00	1.327	-0.02	0.000	0.000
29	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	661	1880	17.77	19.00	1.327	0.07	0.708	0.940
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	512	1850.2	17.67	19.00	1.358	0.02	0.651	0.884
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	810	1909.8	17.32	19.00	1.472	0.05	0.619	0.911
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.18	14.70	1.127	0.05	0.357	0.402
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.18	14.70	1.127	-0.02	0.408	0.460
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.18	14.70	1.127	0.05	0.021	0.024
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.18	14.70	1.127	-0.02	0.018	0.020
30	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9400	1880	14.18	14.70	1.127	-0.02	0.822	0.927
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9262	1852.4	14.13	14.70	1.140	0.05	0.782	0.892
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	9538	1907.6	14.12	14.70	1.143	-0.02	0.797	0.911
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.80	15.70	1.230	0.07	0.341	0.420
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.63	15.70	1.279	0.05	0.275	0.352
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.80	15.70	1.230	-0.02	0.371	0.456
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.63	15.70	1.279	-0.02	0.324	0.415
	LTE Band 2	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.80	15.70	1.230	0.05	0.016	0.020
	LTE Band 2	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.63	15.70	1.279	-0.02	0.014	0.018
	LTE Band 2	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.80	15.70	1.230	-0.02	0.017	0.021
	LTE Band 2	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.63	15.70	1.279	0.05	0.013	0.017
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.80	15.70	1.230	-0.02	0.720	0.886
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	18700	1860	14.56	15.70	1.300	0.12	0.724	0.941
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	19100	1900	14.44	15.70	1.337	-0.02	0.709	0.948

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	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.63	15.70	1.279	-0.02	0.591	0.756
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	18900	1880	14.55	15.70	1.303	0.05	0.587	0.765
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.21	18.10	1.227	-0.02	0.372	0.457
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.12	18.10	1.253	-0.02	0.306	0.383
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.21	18.10	1.227	0.05	0.520	0.638
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.12	18.10	1.253	0.02	0.416	0.521
	LTE Band 2	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.21	18.10	1.227	-0.02	0.026	0.032
	LTE Band 2	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.12	18.10	1.253	-0.02	0.022	0.028
	LTE Band 2	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.21	18.10	1.227	0.07	0.081	0.099
	LTE Band 2	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.12	18.10	1.253	-0.02	0.064	0.080
	LTE Band 2	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.21	18.10	1.227	-0.02	0.787	0.966
31	LTE Band 2	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	18700	1860	17.04	18.10	1.276	0.02	0.797	1.017
	LTE Band 2	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	19100	1900	17.02	18.10	1.282	-0.02	0.736	0.944
	LTE Band 2	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.12	18.10	1.253	-0.02	0.658	0.825
	LTE Band 2	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	16.90	18.10	1.318	0.01	0.621	0.819
	LTE Band 2	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.10	18.10	1.259	0.03	0.653	0.822
	LTE Band 2	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	18900	1880	17.04	18.10	1.276	-0.02	0.656	0.837
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.62	15.70	1.282	0.04	0.337	0.432
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	0.07	0.343	0.460
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.62	15.70	1.282	-0.02	0.425	0.545
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	0.12	0.471	0.631
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.62	15.70	1.282	0.02	0.023	0.029
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	0.05	0.021	0.028
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.62	15.70	1.282	-0.02	0.021	0.027
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	-0.02	0.019	0.025
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.62	15.70	1.282	0.05	0.689	0.884
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	372000	1860	14.49	15.70	1.321	-0.02	0.597	0.789
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	380000	1900	14.56	15.70	1.300	0.12	0.687	0.893
32	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	0.04	0.699	0.936
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	372000	1860	14.36	15.70	1.361	-0.02	0.601	0.818
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	380000	1900	14.28	15.70	1.387	-0.02	0.669	0.928
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	376000	1880	14.41	15.70	1.346	0.07	0.624	0.840
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	17.04	17.90	1.219	0.02	0.391	0.477
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	16.82	17.90	1.282	-0.02	0.364	0.467
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	17.04	17.90	1.219	0.05	0.602	0.734
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	16.82	17.90	1.282	-0.02	0.557	0.714
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	17.04	17.90	1.219	-0.02	0.021	0.026
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	16.82	17.90	1.282	-0.02	0.020	0.026
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	17.04	17.90	1.219	0.02	0.056	0.068
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	16.82	17.90	1.282	-0.02	0.049	0.063
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	17.04	17.90	1.219	-0.02	0.682	0.831
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	372000	1860	16.79	17.90	1.291	0.05	0.707	0.913
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	380000	1900	16.76	17.90	1.300	-0.02	0.633	0.823
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	16.82	17.90	1.282	0.06	0.684	0.877
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	372000	1860	16.79	17.90	1.291	0.03	0.724	0.935
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	380000	1900	16.59	17.90	1.352	0.01	0.673	0.910
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI 3 Simultaneous	376000	1880	16.84	17.90	1.276	0.08	0.613	0.782



FCC SAR Test Report

Report No. : FA192317-02

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)	Reported 1g SAR (W/kg)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.79	15.00	1.050	-	-	-0.02	0.287	0.301
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.68	15.00	1.076	-	-	-0.02	0.230	0.248
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.79	15.00	1.050	-	-	0.08	0.343	0.360
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.68	15.00	1.076	-	-	-0.02	0.280	0.301
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.79	15.00	1.050	-	-	0.05	0.011	0.012
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.68	15.00	1.076	-	-	-0.02	0.008	0.009
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.79	15.00	1.050	-	-	-0.02	0.039	0.041
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.68	15.00	1.076	-	-	0.05	0.031	0.033
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.79	15.00	1.050	-	-	0.04	0.798	0.838
33	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	20850	2510	14.59	15.00	1.099	-	-	-0.04	0.851	0.935
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21350	2560	14.52	15.00	1.117	-	-	-0.02	0.831	0.928
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.68	15.00	1.076	-	-	0.06	0.651	0.701
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI 3 Simultaneous	21100	2535	14.49	15.00	1.125	-	-	0.08	0.644	0.724
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.95	17.60	1.161	-	-	0.02	0.246	0.286
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.83	17.60	1.194	-	-	0.05	0.200	0.239
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.95	17.60	1.161	-	-	-0.02	0.335	0.389
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.83	17.60	1.194	-	-	0.01	0.275	0.328
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.95	17.60	1.161	-	-	-0.02	0.013	0.015
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.83	17.60	1.194	-	-	0.05	0.011	0.013
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.95	17.60	1.161	-	-	-0.02	0.059	0.069
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.83	17.60	1.194	-	-	0.08	0.048	0.057
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.95	17.60	1.161	-	-	0.05	0.742	0.862
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	20850	2510	16.69	17.60	1.233	-	-	-0.02	0.697	0.859
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21350	2560	16.68	17.60	1.236	-	-	-0.02	0.747	0.923
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.83	17.60	1.194	-	-	0.05	0.541	0.646
	LTE Band 7	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI 3 Simultaneous	21100	2535	16.8	17.60	1.202	-	-	0.01	0.537	0.646
3700MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	0.01	0.057	0.071
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.27	17.20	1.239	62.9	1.006	0.08	0.047	0.059
34	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	0.05	0.631	0.785
	LTE_CA_48C	20M	QPSK	1	99		Back	5mm	Ant 2	DSI 3 Simultaneous	56150+56348	3641+3660.8	16.24	17.20	1.247	62.9	1.006	0.05	0.611	0.767
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.27	17.20	1.239	62.9	1.006	-0.02	0.501	0.624
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	0.08	0.207	0.257
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.27	17.20	1.239	62.9	1.006	-0.02	0.172	0.214
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	0.08	0.005	0.006
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.27	17.20	1.239	62.9	1.006	-0.02	0.007	0.009
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	-0.02	0.029	0.036
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 2	DSI 3 Simultaneous	56150	3641	16.27	17.20	1.239	62.9	1.006	0.05	0.025	0.031
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	-0.03	0.046	0.056
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.02	0.043	0.053
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	-0.09	0.751	0.920
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.04	0.702	0.866
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	12.94	13.90	1.247	-	-	0.01	0.671	0.837
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	-0.05	0.228	0.279
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.03	0.232	0.286
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	0.01	0.006	0.007
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.09	0.007	0.009
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	-0.03	0.037	0.045
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.04	0.038	0.047
35	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	16.15	16.90	1.189	50	1.000	-0.03	0.791	0.940
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	-0.04	0.076	0.086
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	-0.02	0.061	0.071

Sporton International (Kunshan) Inc.

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FCC ID : IHD56AB3

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FCC SAR Test Report

Report No. : FA192317-02

FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	0.08	0.724	0.824
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	0.05	0.728	0.842
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.15	13.90	1.189	-	-	0.05	0.701	0.833
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	-0.02	0.241	0.274
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	0.08	0.253	0.292
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	0.05	0.009	0.010
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	-0.02	0.012	0.014
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	0.03	0.092	0.105
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	0.08	0.086	0.099
FR1 n77 Part27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	633334	3500.01	16.34	16.90	1.138	50	1.000	-0.01	0.778	0.885
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	-0.02	0.027	0.032
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	0.08	0.024	0.028
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	0.05	0.596	0.697
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	-0.02	0.580	0.681
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	0.05	0.058	0.068
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	-0.02	0.043	0.051
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	0.03	0.017	0.020
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	0.08	0.012	0.014
FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	0.02	0.207	0.242
FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	0.01	0.190	0.223
FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	656000	3840	18.29	18.90	1.151	50	1.000	0.03	0.564	0.649
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	0.06	0.039	0.044
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.01	0.037	0.042
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	0.08	0.711	0.801
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.09	0.783	0.891
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.30	15.90	1.148	-	-	0.03	0.685	0.786
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	-0.03	0.029	0.033
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.01	0.041	0.047
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	0.05	0.049	0.055
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.09	0.018	0.020
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	0.02	0.222	0.250
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.04	0.214	0.243
FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	18.19	18.90	1.178	50	1.000	-0.03	0.794	0.935
Smart Folio mode																			
FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	DSI 3 Simultaneous	656000	3840	16.15	16.90	1.189	50	1.000	-0.08	0.569	0.676
FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 3 Simultaneous	633334	3500.01	18.19	18.90	1.178	50	1.000	0.09	0.535	0.630



FCC SAR Test Report

Report No. : FA192317-02

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Pmax (dBm)	Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500~3900MHz for SRS Ant																		
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.09	0.449	0.089
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	-0.03	0.442	0.095
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.01	0.505	0.100
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	0.05	0.498	0.107
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.09	0.663	0.131
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	0.01	0.658	0.141
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.04	0.030	0.006
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	-0.03	0.028	0.006
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.05	0.382	0.076
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	0.09	0.385	0.083
	FR1 n77 Part27O HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	656000	3840	25.75	23.00	10	0.02	0.678	0.072
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.06	0.536	0.107
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.01	0.528	0.114
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.02	0.628	0.125
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.02	0.613	0.133
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.08	0.710	0.141
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	-0.03	0.700	0.152
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.04	0.023	0.005
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.06	0.019	0.004
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.09	0.022	0.004
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.04	0.028	0.006
	FR1 n77 Part27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	633334	3500.01	25.64	23.00	10	0.04	0.723	0.079
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 4	656000	3840	23.09	23.00	10	0.08	0.107	0.021
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 4	656000	3840	22.88	23.00	10	0.05	0.110	0.023
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	656000	3840	23.09	23.00	10	-0.01	0.711	0.139
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	656000	3840	22.88	23.00	10	0.05	0.709	0.146
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 4	656000	3840	23.09	23.00	10	-0.02	0.027	0.005
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 4	656000	3840	22.88	23.00	10	0.03	0.031	0.006
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 4	656000	3840	23.09	23.00	10	0.08	0.046	0.009
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 4	656000	3840	22.88	23.00	10	0.06	0.050	0.010
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 4	656000	3840	23.09	23.00	10	0.01	0.244	0.048
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 4	656000	3840	22.88	23.00	10	0.09	0.256	0.053
	FR1 n77 Part27O HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	656000	3840	26.11	23.00	10	-0.02	0.721	0.070
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 4	633334	3500.01	22.99	23.00	10	0.04	0.068	0.014
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 4	633334	3500.01	22.82	23.00	10	-0.05	0.075	0.016
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	633334	3500.01	22.99	23.00	10	-0.01	0.703	0.141
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	633334	3500.01	22.82	23.00	10	-0.02	0.699	0.146
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 4	633334	3500.01	22.99	23.00	10	0.05	0.036	0.007
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 4	633334	3500.01	22.82	23.00	10	-0.02	0.031	0.006
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 4	633334	3500.01	22.99	23.00	10	0.03	0.047	0.009
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 4	633334	3500.01	22.82	23.00	10	0.08	0.045	0.009
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 4	633334	3500.01	22.99	23.00	10	0.06	0.012	0.002
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 4	633334	3500.01	22.82	23.00	10	0.01	0.015	0.003
	FR1 n77 Part27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	633334	3500.01	26.02	23.00	10	-0.01	0.713	0.071
Smart Folio mode																		
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.01	0.651	0.141
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 4	633334	3500.01	22.82	23.00	10	0.04	0.659	0.137



FCC SAR Test Report

Report No. : FA192317-02

Plot No.	Band	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)	Reported 1g SAR (W/kg)
WLAN/Bluetooth																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	WWAN+WLAN	11	2462	20.69	22.00	1.352	97.87	1.022	-0.03	0.167	0.231
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	WWAN+WLAN	11	2462	20.69	22.00	1.352	97.87	1.022	-0.02	0.201	0.278
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 4+6	WWAN+WLAN	11	2462	20.69	22.00	1.352	97.87	1.022	0.03	0.053	0.073
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 4+6	WWAN+WLAN	11	2462	20.69	22.00	1.352	97.87	1.022	0.09	0.049	0.068
36	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+WLAN	11	2462	20.69	22.00	1.352	97.87	1.022	0.07	0.318	0.439
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+DBS	11	2462	17.55	19.00	1.396	97.87	1.022	0.02	0.155	0.221
Smart Folio mode																
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 4+6	WWAN+WLAN	11	2462	20.69	22.00	1.352	97.87	1.022	0.03	0.189	0.261
	Bluetooth	1Mbps	Front	5mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.03	0.136	0.197
	Bluetooth	1Mbps	Back	5mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.06	0.166	0.241
	Bluetooth	1Mbps	Left Side	5mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.01	0.051	0.074
	Bluetooth	1Mbps	Right Side	5mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.03	0.044	0.064
37	Bluetooth	1Mbps	Top Side	5mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.04	0.198	0.287
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.05	0.017	0.029
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.02	0.051	0.087
	Bluetooth	1Mbps	Left Side	5mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.04	0.021	0.036
	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.07	0.019	0.032
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.02	0.005	0.009
Smart Folio mode																
	Bluetooth	1Mbps	Top Side	5mm	Ant 4	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.01	0.131	0.190
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full	78	2480	15.32	16.50	1.314	76.82	1.302	-0.01	0.024	0.041
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	14.87	16.00	1.297	100	1.000	0.06	0.123	0.160
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	14.87	16.00	1.297	100	1.000	-0.01	0.189	0.245
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	14.87	16.00	1.297	100	1.000	0.03	0.089	0.115
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	14.87	16.00	1.297	100	1.000	0.04	0.064	0.083
38	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	14.87	16.00	1.297	100	1.000	-0.02	0.213	0.276
Smart Folio mode																
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	42	5210	14.87	16.00	1.297	100	1.000	-0.01	0.149	0.193
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	12.77	14.00	1.327	100	1.000	0.06	0.116	0.154
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	12.77	14.00	1.327	100	1.000	0.01	0.167	0.222
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	12.77	14.00	1.327	100	1.000	0.09	0.064	0.085
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	12.77	14.00	1.327	100	1.000	0.01	0.055	0.073
39	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+6	WWAN+WLAN&WWAN+DBS	155	5775	12.77	14.00	1.327	100	1.000	-0.04	0.198	0.263



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																			
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	23095	707.5	22.76	24.00	1.330	0.03	0.388	0.516
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	23095	707.5	22.75	24.00	1.334	0.01	0.308	0.411
40	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23095	707.5	22.76	24.00	1.330	-0.09	0.764	1.016
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23060	704	22.63	24.00	1.371	0.01	0.729	0.999
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23130	711	22.61	24.00	1.377	0.03	0.731	1.007
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	23095	707.5	22.75	24.00	1.334	0.06	0.598	0.797
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	23095	707.5	22.75	24.00	1.334	0.06	0.606	0.808
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	23095	707.5	24.38	25.00	1.153	0.03	0.317	0.366
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	23095	707.5	23.41	24.00	1.146	0.01	0.234	0.268
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	23095	707.5	24.38	25.00	1.153	-0.1	0.338	0.390
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	23095	707.5	23.41	24.00	1.146	0.04	0.281	0.322
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 4	23230	782	22.97	24.00	1.268	-0.01	0.388	0.492
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 4	23230	782	22.81	24.00	1.315	-0.03	0.305	0.401
41	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	22.97	24.00	1.268	-0.02	0.678	0.859
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	22.81	24.00	1.315	0.08	0.539	0.709
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 4	23230	782	22.78	24.00	1.324	0.06	0.550	0.728
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 4	23230	782	24.33	25.00	1.167	0.02	0.419	0.489
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 4	23230	782	23.41	24.00	1.146	0.03	0.341	0.391
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	24.33	25.00	1.167	-0.12	0.430	0.502
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 4	23230	782	23.41	24.00	1.146	0.05	0.376	0.431
835MHz																			
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 0	-	DSI 3	189	836.4	27.46	28.40	1.242	0.03	0.527	0.654
42	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	189	836.4	27.46	28.40	1.242	-0.09	0.934	1.160
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	128	824.2	27.31	28.40	1.285	-0.02	0.835	1.073
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 0	-	DSI 3	251	848.8	27.20	28.40	1.318	0.08	0.816	1.076
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.03	0.501	0.638
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3 Simultaneous	189	836.4	24.75	25.80	1.274	0.01	0.795	1.012
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 3	189	836.4	28.14	29.50	1.368	-0.11	0.605	0.827
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 3	128	824.2	28.08	29.50	1.387	0.03	0.589	0.817
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 3	251	848.8	28.08	29.50	1.387	0.04	0.578	0.802
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3	189	836.4	28.14	29.50	1.368	0.03	0.765	1.046
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3	128	824.2	28.08	29.50	1.387	0.02	0.741	1.028
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3	251	848.8	28.08	29.50	1.387	-0.05	0.735	1.019
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 1	-	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	0.02	0.527	0.629
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 1	-	DSI 3 Simultaneous	189	836.4	26.93	27.70	1.194	-0.11	0.665	0.794
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	20525	836.5	22.91	23.50	1.146	0.01	0.801	0.918
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	20525	836.5	22.89	23.50	1.151	0.06	0.527	0.606
	LTE Band 5	10M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	20525	836.5	22.76	23.50	1.186	0.03	0.543	0.644
43	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	20525	836.5	22.91	23.50	1.146	-0.05	1.070	1.226
	LTE_CA_5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI 3	20525+20597	836.5+843.7	22.83	24.00	1.309	0.03	0.908	1.189
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	20525	836.5	22.89	23.50	1.151	0.08	0.855	0.984
	LTE Band 5	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	20525	836.5	22.76	23.50	1.186	0.08	0.839	0.995
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	20525	836.5	22.91	23.50	1.146	0.03	0.612	0.701
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	0.01	0.599	0.632
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	20525	836.5	21.97	22.20	1.054	-0.05	0.800	0.844
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	20525	836.5	22.66	24.00	1.361	0.03	0.514	0.700
	LTE Band 5	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	20525	836.5	22.58	24.00	1.387	0.01	0.456	0.632
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	22.66	24.00	1.361	-0.04	0.652	0.888
	LTE_CA_5B	10M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI 3	20525+20597	836.5+843.7	22.96	24.00	1.271	0.03	0.621	0.789
	LTE Band 5	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	22.58	24.00	1.387	0.02	0.525	0.728



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	LTE Band 5	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20525	836.5	22.53	24.00	1.403	-0.06	0.505	0.708
	LTE Band 5	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	0.02	0.482	0.533
	LTE Band 5	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	20525	836.5	22.66	23.10	1.107	0.08	0.612	0.677
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	4182	836.4	22.92	23.50	1.143	0.03	0.666	0.761
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4182	836.4	22.92	23.50	1.143	0.09	1.070	1.223
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4132	826.4	22.82	23.50	1.169	-0.02	1.040	1.216
44	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	22.90	23.50	1.148	0.08	1.090	1.251
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	4233	846.6	22.90	23.50	1.148	0.05	0.602	0.691
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3 Simultaneous	4182	836.4	21.98	22.20	1.052	0.08	0.449	0.472
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3 Simultaneous	4233	846.6	21.93	22.20	1.064	0.05	0.735	0.782
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	4182	836.4	23.87	24.50	1.156	0.06	0.541	0.625
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4182	836.4	23.87	24.50	1.156	0.02	0.709	0.820
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4132	826.4	23.54	24.50	1.247	0.04	0.687	0.857
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4233	846.6	23.77	24.50	1.183	-0.02	0.737	0.872
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3 Simultaneous	4182	836.4	23.77	24.50	1.183	0.04	0.399	0.472
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 Simultaneous	4233	846.6	23.58	24.50	1.236	0.01	0.522	0.645
Smart Folio mode																			
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	22.90	23.50	1.148	0.01	0.881	1.012
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	167300	836.5	22.75	24.00	1.334	0.03	0.497	0.663
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	167300	836.5	22.65	24.00	1.365	0.04	0.484	0.660
45	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	167300	836.5	22.75	24.00	1.334	0.01	0.869	1.159
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	167300	836.5	22.65	24.00	1.365	0.05	0.806	1.100
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	167300	836.5	22.62	24.00	1.374	0.09	0.793	1.090
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	0.06	0.368	0.512
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3 Simultaneous	167300	836.5	22.07	23.50	1.390	-0.03	0.644	0.895
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 4	167300	836.5	22.55	24.00	1.396	0.03	0.377	0.526
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 4	167300	836.5	22.33	24.00	1.469	0.05	0.385	0.566
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 4	167300	836.5	22.55	24.00	1.396	0.01	0.447	0.624
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 4	167300	836.5	22.33	24.00	1.469	-0.05	0.489	0.718
1750MHz																			
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	18.59	19.20	1.151	0.02	0.934	1.075
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132072	1720	18.56	19.20	1.159	0.04	0.908	1.052
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	132572	1770	18.35	19.20	1.216	-0.02	0.881	1.071
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	18.57	19.20	1.156	0.02	0.726	0.839
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132072	1720	18.42	19.20	1.197	0.04	0.745	0.892
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	132572	1770	18.37	19.20	1.211	0.06	0.734	0.889
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	132322	1745	18.51	19.20	1.172	0.04	0.726	0.851
46	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	18.59	19.20	1.151	0.07	1.080	1.243
	LTE_CA_66C	20M	QPSK	1	99	-	Back	5mm	Ant 0	-	DSI 3	132322+132520	1745+1764.8	18.26	19.20	1.242	0.06	0.912	1.132
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	18.56	19.20	1.159	-0.05	1.060	1.228
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	18.35	19.20	1.216	0.03	1.000	1.216
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	18.57	19.20	1.156	0.04	0.847	0.979
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132072	1720	18.42	19.20	1.197	0.05	0.861	1.030
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	132572	1770	18.37	19.20	1.211	0.09	0.838	1.014
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	18.51	19.20	1.172	0.04	0.838	0.982
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	132322	1745	18.59	19.20	1.151	0.03	1.050	1.208
	LTE Band 66	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	132322	1745	23.16	24.00	1.213	-0.05	0.449	0.545
	LTE Band 66	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	132322	1745	23.16	24.00	1.213	0.08	0.374	0.454
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	0.02	0.505	0.573
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	132322	1745	15.45	16.00	1.135	0.02	0.584	0.663
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	18.97	19.50	1.130	0.09	0.849	0.959
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132072	1720	18.67	19.50	1.211	0.04	0.841	1.018
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132572	1770	18.73	19.50	1.194	0.03	0.844	1.008
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	18.95	19.50	1.135	0.01	0.679	0.771
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	18.81	19.50	1.172	0.03	0.671	0.787
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	18.97	19.50	1.130	0.02	1.090	1.231

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AB3

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	LTE_CA_66C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	132322+ 132520	1745+ 1764.8	18.15	19.50	1.365	0.03	0.874	1.193
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	18.67	19.50	1.211	0.03	0.991	1.200
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	18.73	19.50	1.194	0.04	0.989	1.181
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	18.95	19.50	1.135	-0.04	0.864	0.981
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	18.72	19.50	1.197	0.06	0.815	0.975
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	18.93	19.50	1.140	0.09	0.883	1.007
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	18.81	19.50	1.172	0.08	0.858	1.006
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	132322	1745	18.97	19.50	1.130	0.04	1.050	1.186
	LTE Band 66	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	132072	1720	22.52	24.00	1.406	0.04	0.346	0.486
	LTE Band 66	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	132322	1745	22.69	24.00	1.352	0.06	0.343	0.464
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	132072	1720	16.53	17.70	1.309	0.02	0.620	0.812
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	132322	1745	16.81	17.70	1.227	0.07	0.696	0.854
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	349000	1745	18.68	19.60	1.236	0.06	0.763	0.943
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	349000	1745	18.60	19.60	1.259	0.04	0.783	0.986
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	349000	1745	18.53	19.60	1.279	-0.02	0.769	0.984
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	349000	1745	18.68	19.60	1.236	0.01	0.855	1.057
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	349000	1745	18.60	19.60	1.259	0.13	0.979	1.232
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	349000	1745	18.53	19.60	1.279	0.05	0.959	1.227
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI 3	349000	1745	18.60	19.60	1.259	0.03	0.958	1.206
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	18mm	Ant 0	-	DSI 4	349000	1745	22.49	24.00	1.416	-0.07	0.294	0.416
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 0	-	DSI 4	349000	1745	22.49	24.00	1.416	0.03	0.253	0.358
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	0.02	0.338	0.458
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3 Simultaneous	349000	1745	15.38	16.70	1.355	-0.02	0.379	0.514
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	19.14	20.00	1.219	0.06	0.728	0.887
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	18.96	20.00	1.271	0.09	0.809	1.028
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	18.98	20.00	1.265	0.08	0.699	0.884
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	19.14	20.00	1.219	0.05	0.852	1.039
47	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	18.96	20.00	1.271	0.07	0.980	1.245
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	18.98	20.00	1.265	0.01	0.970	1.227
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	349000	1745	18.96	20.00	1.271	0.03	0.942	1.197
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	18mm	Ant 1	-	DSI 4	349000	1745	23.06	24.00	1.242	-0.01	0.300	0.372
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	349000	1745	23.06	24.00	1.242	0.02	0.312	0.387
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	-0.02	0.435	0.518
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	349000	1745	15.94	16.70	1.191	0.07	0.509	0.606



FCC SAR Test Report

Report No. : FA192317-02

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
1900MHz																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	661	1880	21.15	21.80	1.161	0.03	0.704	0.818
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	512	1850.2	20.95	21.80	1.216	0.01	0.672	0.817
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	810	1909.8	21.07	21.80	1.183	0.06	0.940	1.112
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	661	1880	21.15	21.80	1.161	0.04	0.825	0.958
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	512	1850.2	20.95	21.80	1.216	-0.02	0.730	0.888
48	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	810	1909.8	21.07	21.80	1.183	0.03	1.040	1.230
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	DSI 3	810	1909.8	21.07	21.80	1.183	0.02	0.997	1.179
	GSM 1900	-	-	-	-	GPRS (3 Tx slots)	Front	18mm	Ant 0	-	DSI 4	810	1909.8	25.10	26.50	1.380	-0.08	0.195	0.269
	GSM 1900	-	-	-	-	GPRS (3 Tx slots)	Back	21mm	Ant 0	-	DSI 4	810	1909.8	25.10	26.50	1.380	0.07	0.160	0.221
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3 Simultaneous	810	1909.8	17.32	19.00	1.472	-0.02	0.342	0.504
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3 Simultaneous	810	1909.8	17.32	19.00	1.472	0.07	0.377	0.555
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9400	1880	18.27	18.70	1.104	0.03	0.894	0.987
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9262	1852.4	18.17	18.70	1.130	0.04	0.899	1.016
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	9538	1907.6	18.15	18.70	1.135	0.02	0.850	0.965
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9400	1880	18.27	18.70	1.104	0.06	1.020	1.126
49	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	18.17	18.70	1.130	0.17	1.100	1.243
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9538	1907.6	18.15	18.70	1.135	0.01	1.073	1.218
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	9262	1852.4	18.17	18.70	1.130	0.05	1.020	1.152
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	18mm	Ant 0	-	DSI 4	9262	1852.4	24.35	25.00	1.161	0.09	0.092	0.107
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	21mm	Ant 0	-	DSI 4	9262	1852.4	24.35	25.00	1.161	0.01	0.368	0.427
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3 Simultaneous	9262	1852.4	14.13	14.70	1.140	0.05	0.357	0.407
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3 Simultaneous	9262	1852.4	14.13	14.70	1.140	-0.02	0.408	0.465
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	18900	1880	18.78	19.10	1.076	0.02	0.908	0.977
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	18700	1860	18.57	19.10	1.130	0.06	0.931	1.052
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	19100	1900	18.62	19.10	1.117	0.17	0.842	0.940
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	18900	1880	18.71	19.10	1.094	0.01	0.731	0.800
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	18700	1860	18.59	19.10	1.125	0.03	0.743	0.836
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	19100	1900	18.66	19.10	1.107	0.01	0.698	0.772
	LTE Band 2	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	18900	1880	18.70	19.10	1.096	-0.02	0.733	0.804
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	18900	1880	18.78	19.10	1.076	0.09	0.986	1.061
50	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	18700	1860	18.57	19.10	1.130	0.06	1.100	1.243
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	19100	1900	18.62	19.10	1.117	0.01	0.981	1.096
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	18900	1880	18.71	19.10	1.094	0.06	0.862	0.943
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	18700	1860	18.59	19.10	1.125	0.04	0.875	0.984
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	19100	1900	18.66	19.10	1.107	-0.02	0.802	0.888
	LTE Band 2	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	18900	1880	18.70	19.10	1.096	0.03	0.807	0.885
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	18700	1860	18.57	19.10	1.130	-0.06	1.010	1.141
	LTE Band 2	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	18700	1860	22.78	24.00	1.324	-0.01	0.517	0.685
	LTE Band 2	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	18700	1860	22.78	24.00	1.324	-0.08	0.424	0.562
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	18700	1860	14.56	15.70	1.300	0.07	0.341	0.443
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	18700	1860	14.56	15.70	1.300	-0.02	0.371	0.482
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	20.70	21.50	1.202	0.03	0.613	0.737
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	20.69	21.50	1.205	0.05	0.505	0.609
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	20.70	21.50	1.202	0.03	0.858	1.032
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	20.47	21.50	1.268	0.05	0.978	1.240
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	19100	1900	20.54	21.50	1.247	0.04	0.902	1.125
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	20.69	21.50	1.205	0.05	0.685	0.825
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	20.51	21.50	1.256	0.06	0.786	0.987
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	19100	1900	20.67	21.50	1.211	0.04	0.597	0.723
	LTE Band 2	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	20.55	21.50	1.245	-0.02	0.681	0.848
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	18700	1860	20.47	21.50	1.268	0.03	0.914	1.159
	LTE Band 2	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	18700	1860	21.96	23.00	1.271	-0.07	0.210	0.267
	LTE Band 2	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	18700	1860	21.96	23.00	1.271	0.09	0.205	0.260

Sporton International (Kunshan) Inc.

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	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	18700	1860	17.04	18.10	1.276	-0.02	0.372	0.475
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	18700	1860	17.04	18.10	1.276	0.05	0.520	0.664
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	376000	1880	18.67	19.70	1.268	0.03	0.665	0.843
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	372000	1860	18.61	19.70	1.285	0.01	0.619	0.796
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	380000	1900	18.58	19.70	1.294	-0.02	0.595	0.770
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	376000	1880	18.45	19.70	1.334	0.09	0.677	0.903
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	372000	1860	18.31	19.70	1.377	0.06	0.607	0.836
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	380000	1900	18.34	19.70	1.368	0.01	0.584	0.799
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	376000	1880	18.43	19.70	1.340	0.06	0.611	0.819
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	376000	1880	18.67	19.70	1.268	0.04	0.841	1.066
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	372000	1860	18.61	19.70	1.285	0.09	0.786	1.010
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	380000	1900	18.58	19.70	1.294	0.06	0.794	1.028
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	376000	1880	18.45	19.70	1.334	0.04	0.930	1.240
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	372000	1860	18.31	19.70	1.377	0.06	0.759	1.045
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	380000	1900	18.34	19.70	1.368	0.01	0.755	1.033
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	376000	1880	18.43	19.70	1.340	0.06	0.778	1.042
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI 3	376000	1880	18.45	19.70	1.334	0.07	0.841	1.121
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	18mm	Ant 0	-	DSI 4	376000	1880	22.41	24.00	1.442	0.05	0.321	0.463
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	21mm	Ant 0	-	DSI 4	376000	1880	22.41	24.00	1.442	0.06	0.295	0.425
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	0.04	0.337	0.451
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3 Simultaneous	376000	1880	14.43	15.70	1.340	-0.02	0.425	0.569
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	376000	1880	19.55	20.50	1.245	0.03	0.617	0.768
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	376000	1880	19.33	20.50	1.309	-0.03	0.574	0.751
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	19.55	20.50	1.245	0.01	0.743	0.925
51	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	19.30	20.50	1.318	-0.15	0.950	1.252
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	380000	1900	19.27	20.50	1.327	0.06	0.686	0.911
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	19.33	20.50	1.309	-0.04	0.761	0.996
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	19.21	20.50	1.346	0.05	0.878	1.182
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	380000	1900	19.10	20.50	1.380	0.06	0.700	0.966
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	19.35	20.50	1.303	0.04	0.695	0.906
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	DSI 3	372000	1860	19.30	20.50	1.318	0.12	0.889	1.172
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	18mm	Ant 1	-	DSI 4	376000	1880	23.15	24.00	1.216	-0.04	0.181	0.220
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	21mm	Ant 1	-	DSI 4	372000	1860	22.90	24.00	1.288	-0.05	0.184	0.237
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3 Simultaneous	376000	1880	17.04	17.90	1.219	0.02	0.391	0.477
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3 Simultaneous	372000	1860	16.79	17.90	1.291	0.05	0.602	0.777
Smart Folio mode																			
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	19.30	20.50	1.318	-0.05	0.871	1.148



FCC SAR Test Report

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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	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)	Reported 1g SAR (W/kg)
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	18.88	20.20	1.355	-	-	0.02	0.677	0.917
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	20850	2510	18.70	20.20	1.413	-	-	0.01	0.736	1.040
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	21350	2560	18.56	20.20	1.459	-	-	-0.15	0.650	0.948
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	18.73	20.20	1.403	-	-	0.06	0.543	0.762
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	18.69	20.20	1.416	-	-	0.06	0.534	0.756
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	18.88	20.20	1.355	-	-	0.04	0.808	1.095
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	20850	2510	18.70	20.20	1.413	-	-	-0.07	0.873	1.233
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21350	2560	18.56	20.20	1.459	-	-	0.05	0.797	1.163
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	18.73	20.20	1.403	-	-	0.04	0.661	0.927
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	20850	2510	18.59	20.20	1.449	-	-	0.05	0.719	1.042
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	21350	2560	18.53	20.20	1.469	-	-	0.06	0.656	0.964
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	18.69	20.20	1.416	-	-	0.05	0.652	0.923
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	20850	2510	18.70	20.20	1.413	-	-	0.04	0.597	0.843
	LTE Band 7	20M	QPSK	1	0	-	Front	18mm	Ant 0	-	DSI 4	20850	2510	23.37	24.00	1.156	-	-	0.08	0.521	0.602
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 0	-	DSI 4	20850	2510	23.37	24.00	1.156	-	-	0.06	0.512	0.592
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3 Simultaneous	20850	2510	14.59	15.00	1.099	-	-	-0.02	0.287	0.315
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3 Simultaneous	20850	2510	14.59	15.00	1.099	-	-	0.08	0.343	0.377
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	20.36	20.90	1.132	-	-	0.05	0.685	0.776
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	20.33	20.90	1.140	-	-	0.04	0.556	0.634
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	20.36	20.90	1.132	-	-	0.08	0.934	1.058
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	20.19	20.90	1.178	-	-	-0.03	0.985	1.160
52	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	20.17	20.90	1.183	-	-	0.01	1.050	1.242
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	20.33	20.90	1.140	-	-	0.04	0.766	0.873
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	20.22	20.90	1.169	-	-	0.02	0.792	0.926
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	20.27	20.90	1.156	-	-	-0.06	0.843	0.975
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	20.29	20.90	1.151	-	-	0.09	0.766	0.882
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	DSI 3	21350	2560	20.17	20.90	1.183	-	-	-0.04	0.927	1.097
	LTE Band 7	20M	QPSK	1	0	-	Front	18mm	Ant 1	-	DSI 4	21100	2535	22.89	24.00	1.291	-	-	0.03	0.232	0.300
	LTE Band 7	20M	QPSK	1	0	-	Back	21mm	Ant 1	-	DSI 4	21350	2560	22.69	24.00	1.352	-	-	0.04	0.347	0.469
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3 Simultaneous	21100	2535	16.95	17.60	1.161	-	-	0.02	0.246	0.286
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3 Simultaneous	21350	2560	16.68	17.60	1.236	-	-	-0.02	0.335	0.414
3700MHz																					
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	56150	3641	17.23	18.50	1.340	62.9	1.006	0.08	0.084	0.113
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	56150	3641	17.20	18.50	1.349	62.9	1.006	-0.03	0.069	0.094
53	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	17.23	18.50	1.340	62.9	1.006	0.03	0.929	1.252
	LTE_CA_48C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3	56150+56348	3641+3660.8	17.22	18.50	1.343	62.9	1.006	0.06	0.885	1.195
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	55340	3560	17.02	18.50	1.406	62.9	1.006	0.04	0.874	1.236
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	55830	3609	17.05	18.50	1.396	62.9	1.006	0.02	0.888	1.247
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56640	3690	17.12	18.50	1.374	62.9	1.006	-0.06	0.899	1.243
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	17.20	18.50	1.349	62.9	1.006	0.03	0.738	1.002
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	55340	3560	17.08	18.50	1.387	62.9	1.006	0.04	0.705	0.984
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	55830	3609	17.14	18.50	1.368	62.9	1.006	-0.02	0.726	0.999
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	56640	3690	17.11	18.50	1.377	62.9	1.006	0.04	0.710	0.984
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	17.16	18.50	1.361	62.9	1.006	0.01	0.634	0.868
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	56150	3641	17.23	18.50	1.340	62.9	1.006	0.09	0.821	1.106
	LTE Band 48	20M	QPSK	1	0	-	Front	18mm	Ant 2	-	DSI 4	56150	3641	22.54	24.00	1.400	62.9	1.006	0.01	0.168	0.237
	LTE Band 48	20M	QPSK	1	0	-	Back	21mm	Ant 2	-	DSI 4	56150	3641	22.54	24.00	1.400	62.9	1.006	0.01	0.309	0.435
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	0.01	0.057	0.071
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3 Simultaneous	56150	3641	16.28	17.20	1.236	62.9	1.006	0.05	0.631	0.785
Smart Folio mode																					
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	17.23	18.50	1.340	62.9	1.006	-0.01	0.711	0.958
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3	656000	3840	14.52	15.50	1.253	-	-	0.03	0.141	0.177
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3	656000	3840	14.36	15.50	1.300	-	-	0.04	0.136	0.177
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	656000	3840	14.52	15.50	1.253	-	-	-0.08	0.945	1.184
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	656000	3840	14.36	15.50	1.300	-	-	0.02	0.897	1.166

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	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	656000	3840	14.35	15.50	1.303	-	-	0.04	0.861	1.122
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	656000	3840	17.39	18.50	1.291	50	1.000	-0.08	0.916	1.183
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 2		DSI 4	656000	3840	23.24	24.00	1.191	-	-	0.03	0.116	0.138
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 2		DSI 4	656000	3840	23.24	24.00	1.191	-	-	0.04	0.204	0.243
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	-0.03	0.046	0.056
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.02	0.043	0.053
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	656000	3840	13.02	13.90	1.225	-	-	-0.09	0.751	0.920
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	656000	3840	12.99	13.90	1.233	-	-	0.04	0.702	0.866
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	656000	3840	12.94	13.90	1.247	-	-	0.01	0.671	0.837
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	656000	3840	16.15	16.90	1.189	50	1.000	-0.03	0.791	0.940
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3	633334	3500.01	14.66	15.50	1.213	-	-	0.06	0.106	0.129
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3	633334	3500.01	14.51	15.50	1.256	-	-	0.04	0.084	0.106
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	633334	3500.01	14.66	15.50	1.213	-	-	0.09	0.999	1.212
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	633334	3500.01	14.51	15.50	1.256	-	-	0.01	0.953	1.197
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	633334	3500.01	14.59	15.50	1.233	-	-	0.09	0.903	1.113
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3	633334	3500.01	17.64	18.50	1.219	50	1.000	0.02	1.010	1.231
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	633334	3500.01	17.64	18.50	1.219	50	1.000	0.02	0.915	1.115
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 2		DSI 4	633334	3500.01	23.21	24.00	1.199	-	-	0.06	0.173	0.208
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	21mm	Ant 2		DSI 4	633334	3500.01	22.97	24.00	1.268	-	-	0.01	0.308	0.390
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	-0.04	0.076	0.086
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2		DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	-0.02	0.061	0.071
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	633334	3500.01	13.34	13.90	1.138	-	-	0.08	0.724	0.824
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	633334	3500.01	13.27	13.90	1.156	-	-	0.05	0.728	0.842
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	633334	3500.01	13.15	13.90	1.189	-	-	0.05	0.701	0.833
	FR1 n77 Part27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2		DSI 3 Simultaneous	633334	3500.01	16.34	16.90	1.138	50	1.000	-0.01	0.778	0.885
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3	656000	3840	16.28	17.20	1.236	-	-	-0.02	0.032	0.040
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3	656000	3840	16.17	17.20	1.268	-	-	0.08	0.029	0.037
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	656000	3840	16.28	17.20	1.236	-	-	0.05	0.728	0.900
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	656000	3840	16.17	17.20	1.268	-	-	-0.02	0.700	0.887
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	656000	3840	16.14	17.20	1.276	-	-	0.07	0.693	0.885
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	656000	3840	19.27	20.20	1.239	50	1.000	0.01	0.711	0.881
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	18mm	Ant 7		DSI 4	656000	3840	22.74	24.00	1.337	-	-	0.09	0.077	0.103
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 7		DSI 4	656000	3840	22.74	24.00	1.337	-	-	0.04	0.201	0.269
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	-0.02	0.027	0.032
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	0.08	0.024	0.028
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	656000	3840	15.22	15.90	1.169	-	-	0.05	0.596	0.697
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	656000	3840	15.20	15.90	1.175	-	-	-0.02	0.580	0.681
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	656000	3840	18.29	18.90	1.151	50	1.000	0.03	0.564	0.649
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3	633334	3500.01	16.32	17.20	1.225	-	-	0.06	0.050	0.061
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3	633334	3500.01	16.22	17.20	1.253	-	-	0.01	0.059	0.074
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	633334	3500.01	16.32	17.20	1.225	-	-	0.08	0.974	1.193
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	633334	3500.01	16.22	17.20	1.253	-	-	0.09	0.940	1.178
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	633334	3500.01	16.20	17.20	1.259	-	-	0.09	0.931	1.172
54	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	633334	3500.01	19.20	20.20	1.259	50	1.000	-0.05	0.981	1.235
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	Headset	DSI 3	633334	3500.01	19.20	20.20	1.259	50	1.000	-0.01	0.877	1.104
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	18mm	Ant 7		DSI 4	633334	3500.01	22.46	24.00	1.426	-	-	0.03	0.148	0.211
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	21mm	Ant 7		DSI 4	633334	3500.01	22.67	24.00	1.358	-	-	0.04	0.325	0.441
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	0.06	0.039	0.044
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7		DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.01	0.037	0.042
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	633334	3500.01	15.38	15.90	1.127	-	-	0.08	0.711	0.801
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	633334	3500.01	15.34	15.90	1.138	-	-	0.09	0.703	0.800
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	633334	3500.01	15.30	15.90	1.148	-	-	0.03	0.685	0.786
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3 Simultaneous	633334	3500.01	18.19	18.90	1.178	50	1.000	-0.03	0.794	0.935
Smart Folio mode																					
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7		DSI 3	633334	3500.01	19.20	20.20	1.259	50	1.000	0.07	0.639	0.804



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Pmax (dBm)	Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
3500-3900MHz for SRS Ant																		
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.09	0.449	0.089
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	-0.03	0.442	0.095
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	656000	3840	23.04	23.00	10	0.01	0.505	0.100
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	656000	3840	22.70	23.00	10	0.05	0.498	0.107
	FR1 n77 Part27O HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	656000	3840	25.75	23.00	10	0.03	0.612	0.065
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.06	0.416	0.083
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.01	0.440	0.095
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	0.02	0.700	0.139
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	22.65	23.00	10	0.02	0.624	0.135
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	25.91	23.00	10	0.02	0.893	0.091
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3	656000	3840	18.11	23.00	10	0.08	0.089	0.055
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3	656000	3840	17.96	23.00	10	0.05	0.091	0.058
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	18.11	23.00	10	-0.02	0.593	0.366
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	17.96	23.00	10	0.05	0.461	0.294
	FR1 n77 Part27O HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	656000	3840	20.52	23.00	10	0.06	0.687	0.243
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3	633334	3500.01	17.85	23.00	10	0.04	0.069	0.045
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 3	633334	3500.01	17.76	23.00	10	-0.05	0.056	0.037
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	633334	3500.01	17.85	23.00	10	-0.01	0.687	0.450
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	633334	3500.01	17.76	23.00	10	-0.02	0.615	0.411
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	633334	3500.01	20.14	23.00	10	-0.01	0.713	0.275
Smart Folio mode																		
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI 4	633334	3500.01	23.02	23.00	10	-0.09	0.542	0.108
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 3	633334	3500.01	17.85	23.00	10	-0.02	0.477	0.312



FCC SAR Test Report

Report No. : FA192317-02

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	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)	Reported 1g SAR (W/kg)
WLAN/Bluetooth																	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4+6	-	Full	11	2462	22.11	23.50	1.377	97.87	1.022	-0.03	0.454	0.639
55	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Full	11	2462	22.11	23.50	1.377	97.87	1.022	-0.02	0.664	0.934
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Full	1	2412	22.10	23.50	1.381	97.87	1.022	0.06	0.629	0.888
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Simultaneous For DBS Only	11	2462	21.05	22.00	1.245	97.87	1.022	0.01	0.521	0.663
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Simultaneous WWAN + non-DBS	11	2462	20.16	21.50	1.361	97.87	1.022	0.02	0.366	0.509
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Simultaneous For WWAN+DBS	11	2462	16.94	18.00	1.276	97.87	1.022	0.06	0.187	0.244
Smart Folio mode																	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4+6	-	Full	11	2462	22.11	23.50	1.377	97.87	1.022	0.01	0.421	0.592
	Bluetooth	1Mbps	Front	5mm	Ant 4	-	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.03	0.136	0.197
56	Bluetooth	1Mbps	Back	5mm	Ant 4	-	Full	0	2402	13.53	14.00	1.115	76.79	1.302	0.06	0.166	0.241
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.05	0.017	0.029
	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Full	78	2480	15.32	16.50	1.314	76.82	1.302	0.02	0.051	0.087
Smart Folio mode																	
	Bluetooth	1Mbps	Back	5mm	Ant 4	-	Full	0	2402	13.53	14.00	1.115	76.79	1.302	-0.02	0.101	0.147
	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Full	78	2480	15.32	16.50	1.314	76.82	1.302	-0.01	0.024	0.041
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	-	Standalone	42	5210	17.42	18.50	1.282	100	1.000	0.06	0.509	0.653
57	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Standalone	42	5210	17.42	18.50	1.282	100	1.000	-0.01	0.810	1.039
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For DBS Only	42	5210	15.89	17.00	1.291	100	1.000	0.06	0.486	0.628
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For WWAN+DBS&WWAN+WLAN	42	5210	11.68	13.00	1.355	100	1.000	0.04	0.198	0.268
	WLAN5.2GHz	802.11a 6Mbps	Front	18mm	Ant 5+6	-	Full	48	5240	20.94	22.50	1.432	100	1.000	0.06	0.089	0.127
	WLAN5.2GHz	802.11a 6Mbps	Back	21mm	Ant 5+6	-	Full	48	5240	20.94	22.50	1.432	100	1.000	0.01	0.168	0.241
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+6	-	Standalone	58	5290	16.57	18.00	1.390	100	1.000	0.04	0.385	0.535
58	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Standalone	58	5290	16.57	18.00	1.390	100	1.000	0.09	0.796	1.106
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For DBS Only	58	5290	15.72	17.00	1.343	100	1.000	-0.03	0.511	0.686
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For WWAN+DBS&WWAN+WLAN	58	5290	11.79	13.00	1.321	100	1.000	0.01	0.185	0.244
	WLAN5.3GHz	802.11a 6Mbps	Front	18mm	Ant 5+6	-	Full	64	5320	19.61	21.00	1.377	100	1.000	0.09	0.076	0.105
	WLAN5.3GHz	802.11a 6Mbps	Back	21mm	Ant 5+6	-	Full	64	5320	19.61	21.00	1.377	100	1.000	0.06	0.154	0.212
	WLAN5.5GHz	802.11a 6Mbps	Front	5mm	Ant 5+6	-	Full	124	5620	21.07	22.50	1.389	100	1.000	0.06	0.468	0.650
59	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 5+6	-	Full	124	5620	21.07	22.50	1.389	100	1.000	0.05	0.807	1.121
	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 5+6	-	Full	116	5580	21.06	22.50	1.393	100	1.000	0.01	0.770	1.073
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For DBS Only	106	5530	18.98	20.50	1.418	100	1.000	0.02	0.513	0.728
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For WWAN+DBS&WWAN+WLAN	106	5530	14.80	16.00	1.318	100	1.000	-0.03	0.216	0.285
Smart Folio mode																	
	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 5+6	-	Full	124	5620	21.07	22.50	1.389	100	1.000	0.02	0.631	0.877
	WLAN5.8GHz	802.11a 6Mbps	Front	5mm	Ant 5+6	-	Full	165	5825	21.31	22.50	1.315	100	1.000	0.06	0.349	0.459
	WLAN5.8GHz	802.11a 6Mbps	Back	5mm	Ant 5+6	-	Full	165	5825	21.31	22.50	1.315	100	1.000	0.01	0.617	0.811
60	WLAN5.8GHz	802.11a 6Mbps	Back	5mm	Ant 5+6	-	Full	157	5785	21.06	22.50	1.393	100	1.000	-0.06	0.743	1.035
	WLAN5.8GHz	802.11n-VHT40 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For DBS Only	159	5795	19.90	21.50	1.447	100	1.000	0.05	0.503	0.728
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	Simultaneous For WWAN+DBS&WWAN+WLAN	155	5775	15.96	17.00	1.271	100	1.000	0.09	0.209	0.266



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)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
835MHz																		
61	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	0mm	Ant 1	DSI 6	189	836.4	28.14	29.50	1.368	0.1	1.100	1.505
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Top Side	13mm	Ant 1	DSI 4	189	836.4	28.14	29.50	1.368	-0.04	0.290	0.397
62	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	24.52	25.00	1.117	0.01	1.110	1.240
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 0	DSI 4	4182	836.4	24.52	25.00	1.117	0.02	0.525	0.586
1750MHz																		
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	21.84	23.00	1.306	0.03	2.360	3.083
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132072	1720	21.67	23.00	1.358	0.03	2.300	3.124
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	132572	1770	21.46	23.00	1.426	-0.13	2.050	2.922
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	21.71	23.00	1.346	0.02	1.820	2.449
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132072	1720	21.52	23.00	1.406	0.04	1.820	2.559
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	132572	1770	21.69	23.00	1.352	0.02	1.780	2.407
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI 6	132322	1745	21.66	23.00	1.361	0.02	1.820	2.478
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.84	23.00	1.306	0.02	2.170	2.834
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	21.67	23.00	1.358	0.04	2.120	2.880
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	21.46	23.00	1.426	0.05	2.050	2.922
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.71	23.00	1.346	-0.02	1.705	2.295
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132072	1720	21.52	23.00	1.406	0.07	1.710	2.404
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	132572	1770	21.69	23.00	1.352	-0.08	1.660	2.244
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 0	DSI 6	132322	1745	21.66	23.00	1.361	0.03	1.700	2.314
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	21.84	23.00	1.306	-0.13	2.400	3.135
	LTE_CA_66C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322+132415	1745+1754.3	21.09	23.00	1.552	0.06	1.980	3.074
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	21.67	23.00	1.358	0.02	2.060	2.798
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	21.46	23.00	1.426	-0.02	2.000	2.851
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	21.71	23.00	1.346	0.07	2.010	2.705
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132072	1720	21.52	23.00	1.406	-0.08	1.990	2.798
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	132572	1770	21.69	23.00	1.352	0.03	2.010	2.718
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	132322	1745	21.66	23.00	1.361	0.01	2.000	2.723
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	132322	1745	20.28	21.50	1.324	-0.07	1.690	2.238
	LTE Band 66	20M	QPSK	1	0	-	Front	9mm	Ant 0	DSI 4	132072	1720	23.06	24.00	1.242	-0.03	0.825	1.024
	LTE Band 66	20M	QPSK	1	0	-	Back	12mm	Ant 0	DSI 4	132572	1770	22.98	24.00	1.265	0.05	0.611	0.773
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	132322	1745	23.16	24.00	1.213	0.06	0.678	0.823
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	20.11	21.50	1.377	-0.02	1.810	2.493
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	20.06	21.50	1.393	0.07	1.740	2.424
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	19.94	21.50	1.432	-0.08	1.690	2.420
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	19.90	21.50	1.445	0.03	1.780	2.573
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132072	1720	20.01	21.50	1.409	0.02	1.720	2.424
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132572	1770	19.82	21.50	1.472	0.04	1.710	2.518
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	19.91	21.50	1.442	0.05	1.760	2.538
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	20.11	21.50	1.377	0.04	1.720	2.369
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132072	1720	20.06	21.50	1.393	0.05	1.730	2.410
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132572	1770	19.94	21.50	1.432	0.02	1.700	2.435
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	19.90	21.50	1.445	0.05	1.410	2.038
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132072	1720	20.01	21.50	1.409	-0.02	1.360	1.917
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132572	1770	19.82	21.50	1.472	-0.02	1.370	2.017
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	19.91	21.50	1.442	-0.02	1.400	2.019
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	20.11	21.50	1.377	0.07	2.160	2.975
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	20.06	21.50	1.393	-0.08	2.210	3.079
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	19.94	21.50	1.432	-0.02	1.660	2.377
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	19.90	21.50	1.445	-0.02	2.060	2.978
63	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	20.01	21.50	1.409	0.05	2.230	3.143



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LTE_CA_66C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	132072+ 132270	1720+ 1739.8	21.15	21.50	1.084	0.01	2.130	2.309
LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	19.82	21.50	1.472	0.05	1.700	2.503
LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	19.91	21.50	1.442	0.03	2.140	3.086
LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	132072	1720	18.53	20.00	1.403	0.04	1.680	2.357
LTE Band 66	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	132322	1745	22.69	24.00	1.352	-0.06	0.687	0.929
LTE Band 66	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	132322	1745	22.69	24.00	1.352	-0.07	0.522	0.706
LTE Band 66	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	132322	1745	22.69	24.00	1.352	0.05	0.510	0.690
Smart Folio mode																	
LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	20.01	21.50	1.409	0.01	1.970	2.776
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	21.08	22.10	1.265	0.05	1.210	1.530
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	349000	1745	20.97	22.10	1.297	-0.02	1.400	1.816
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	21.08	22.10	1.265	-0.08	1.650	2.087
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	20.97	22.10	1.297	0.03	1.700	2.205
FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	349000	1745	20.85	22.10	1.334	0.02	1.700	2.267
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	21.08	22.10	1.265	0.04	2.440	3.086
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	20.97	22.10	1.297	-0.02	2.300	2.984
FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	20.85	22.10	1.334	0.07	2.200	2.934
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	349000	1745	19.55	20.60	1.274	-0.08	1.750	2.229
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	9mm	Ant 0	DSI 4	349000	1745	22.49	24.00	1.416	-0.09	1.120	1.586
FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	12mm	Ant 0	DSI 4	349000	1745	22.26	24.00	1.493	0.07	0.798	1.191
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	14mm	Ant 0	DSI 4	349000	1745	22.63	24.00	1.371	0.05	0.810	1.110
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	21.05	21.90	1.216	-0.02	1.670	2.031
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	20.98	21.90	1.236	0.07	1.660	2.052
FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	20.89	21.90	1.262	-0.02	1.620	2.044
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	21.05	21.90	1.216	0.07	1.270	1.545
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	20.98	21.90	1.236	-0.08	1.130	1.397
64 FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	21.05	21.90	1.216	0.02	2.540	3.089
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	20.98	21.90	1.236	0.05	2.140	2.645
FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	20.89	21.90	1.262	-0.02	2.430	3.066
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6 Simultaneous	349000	1745	19.56	20.40	1.213	-0.02	1.800	2.184
FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	349000	1745	23.06	24.00	1.242	0.01	0.798	0.991
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	349000	1745	23.36	24.00	1.159	-0.03	0.627	0.727
FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	13mm	Ant 1	DSI 4	349000	1745	23.36	24.00	1.159	0.07	0.935	1.083



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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	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
1900MHz																		
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	661	1880	25.17	26.50	1.358	-0.02	2.060	2.798
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	512	1850.2	25.14	26.50	1.368	-0.02	2.050	2.804
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 0	DSI 6	810	1909.8	25.10	26.50	1.380	0.05	1.950	2.692
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	661	1880	25.17	26.50	1.358	0.05	2.040	2.771
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	512	1850.2	25.14	26.50	1.368	0.03	2.110	2.886
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	810	1909.8	25.10	26.50	1.380	0.04	2.050	2.830
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	661	1880	25.17	26.50	1.358	-0.02	2.120	2.880
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	512	1850.2	25.14	26.50	1.368	-0.02	2.190	2.995
65	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6	810	1909.8	25.10	26.50	1.380	0.07	2.200	3.037
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	810	1909.8	24.71	26.50	1.510	0.02	1.930	2.914
	GSM 1900	-	-	-	-	GPRS (3 Tx slots)	Front	9mm	Ant 0	DSI 4	661	1880	25.17	26.50	1.358	-0.01	0.401	0.545
	GSM 1900	-	-	-	-	GPRS (3 Tx slots)	Back	12mm	Ant 0	DSI 4	661	1880	25.17	26.50	1.358	0.09	0.212	0.288
	GSM 1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	14mm	Ant 0	DSI 4	661	1880	25.17	26.50	1.358	0.07	0.366	0.497
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9400	1880	21.66	22.40	1.186	0.07	1.980	2.348
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9262	1852.4	21.56	22.40	1.213	0.02	2.020	2.451
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	DSI 6	9538	1907.6	21.59	22.40	1.205	0.05	1.840	2.217
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9400	1880	21.66	22.40	1.186	0.05	1.680	1.992
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9262	1852.4	21.56	22.40	1.213	-0.02	1.870	2.269
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	9538	1907.6	21.59	22.40	1.205	-0.02	2.530	3.049
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9400	1880	21.66	22.40	1.186	0.05	2.330	2.763
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9262	1852.4	21.56	22.40	1.213	-0.02	2.540	3.082
66	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	21.59	22.40	1.205	0.07	2.580	3.109
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	9538	1907.6	20.58	20.90	1.076	-0.07	1.870	2.013
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 0	DSI 4	9400	1880	24.41	25.00	1.146	-0.09	0.333	0.381
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 0	DSI 4	9400	1880	24.41	25.00	1.146	0.06	0.199	0.228
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	14mm	Ant 0	DSI 4	9400	1880	24.41	25.00	1.146	-0.03	1.190	1.363
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	18900	1880	20.36	21.10	1.186	-0.02	1.820	2.158
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	18700	1860	20.11	21.10	1.256	-0.02	1.880	2.361
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 0	DSI 6	19100	1900	20.09	21.10	1.262	0.05	1.690	2.132
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 0	DSI 6	18900	1880	20.22	21.10	1.225	-0.02	1.440	1.763
	LTE Band 2	20M	QPSK	100	0	-	Front	0mm	Ant 0	DSI 6	18900	1880	20.20	21.10	1.230	-0.02	1.450	1.784
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 0	DSI 6	18900	1880	20.36	21.10	1.186	-0.02	1.600	1.897
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 0	DSI 6	18900	1880	20.22	21.10	1.225	0.05	1.300	1.592
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	20.36	21.10	1.186	-0.02	2.350	2.787
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	18700	1860	20.11	21.10	1.256	0.02	2.490	3.128
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	20.09	21.10	1.262	-0.02	2.410	3.041
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	20.22	21.10	1.225	0.07	1.910	2.339
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	18700	1860	20.12	21.10	1.253	0.02	2.010	2.519
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	19100	1900	20.05	21.10	1.274	0.05	1.960	2.496
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	20.20	21.10	1.230	-0.02	1.920	2.362
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	18700	1860	18.65	19.60	1.245	-0.06	1.760	2.190
	LTE Band 2	20M	QPSK	1	0	-	Front	9mm	Ant 0	DSI 4	18700	1860	22.78	24.00	1.324	-0.09	0.700	0.927
	LTE Band 2	20M	QPSK	1	0	-	Back	12mm	Ant 0	DSI 4	18900	1880	23.15	24.00	1.216	0.08	0.616	0.749
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	14mm	Ant 0	DSI 4	18700	1860	22.78	24.00	1.324	0.05	1.120	1.483
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	20.08	20.60	1.127	0.12	1.410	1.589
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	20.04	20.60	1.138	0.07	1.160	1.320
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	20.08	20.60	1.127	-0.02	1.190	1.341
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	20.04	20.60	1.138	0.02	0.952	1.083
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	18900	1880	20.08	20.60	1.127	0.07	2.640	2.976
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	18700	1860	20.02	20.60	1.143	-0.02	2.640	3.017
67	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	19100	1900	20.07	20.60	1.130	-0.02	2.770	3.130
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	18900	1880	20.04	20.60	1.138	0.02	2.250	2.560
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	18700	1860	20.03	20.60	1.140	0.06	2.260	2.577

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158 / FAX : 86-512-57900958

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	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	19100	1900	19.94	20.60	1.164	0.05	2.230	2.596
	LTE Band 2	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	18900	1880	19.97	20.60	1.156	-0.02	2.240	2.590
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6 Simultaneous	19100	1900	17.98	19.10	1.294	-0.02	1.990	2.575
	LTE Band 2	20M	QPSK	1	0	-	Front	9mm	Ant 1	DSI 4	18900	1880	21.97	23.00	1.268	-0.08	0.451	0.572
	LTE Band 2	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	18900	1880	21.97	23.00	1.268	0.05	0.365	0.463
	LTE Band 2	20M	QPSK	1	0	-	Top Side	13mm	Ant 1	DSI 4	19100	1900	21.74	23.00	1.337	0.06	0.548	0.732
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376000	1880	21.05	22.10	1.274	0.02	1.470	1.872
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376000	1880	20.91	22.10	1.315	-0.02	1.630	2.144
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	372000	1860	20.80	22.10	1.349	0.07	1.430	1.929
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	380000	1900	20.81	22.10	1.346	0.02	1.330	1.790
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Front	0mm	Ant 0	DSI 6	376000	1880	20.88	22.10	1.324	0.05	1.470	1.947
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376000	1880	21.05	22.10	1.274	-0.02	1.910	2.432
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	372000	1860	20.98	22.10	1.294	-0.02	1.910	2.472
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	380000	1900	20.97	22.10	1.297	0.02	1.670	2.166
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376000	1880	20.91	22.10	1.315	0.05	1.670	2.196
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	372000	1860	20.80	22.10	1.349	-0.02	1.730	2.334
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	380000	1900	20.81	22.10	1.346	-0.02	1.610	2.167
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	0mm	Ant 0	DSI 6	376000	1880	20.88	22.10	1.324	0.05	1.590	2.106
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376000	1880	21.05	22.10	1.274	-0.02	2.160	2.751
68	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	372000	1860	20.98	22.10	1.294	-0.02	2.430	3.145
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	380000	1900	20.97	22.10	1.297	-0.02	2.190	2.841
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376000	1880	20.91	22.10	1.315	0.07	2.100	2.762
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	372000	1860	20.80	22.10	1.349	0.05	2.310	3.116
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	380000	1900	20.81	22.10	1.346	-0.02	2.130	2.867
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	376000	1880	20.88	22.10	1.324	0.07	2.090	2.768
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	372000	1860	19.50	20.60	1.288	0.02	1.810	2.332
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	9mm	Ant 0	DSI 4	376000	1880	22.41	24.00	1.442	0.02	0.518	0.747
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	12mm	Ant 0	DSI 4	372000	1860	22.53	24.00	1.403	0.04	0.388	0.544
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	14mm	Ant 0	DSI 4	372000	1860	22.53	24.00	1.403	0.05	0.676	0.948
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	376000	1880	20.86	21.60	1.186	0.05	1.420	1.684
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	376000	1880	20.76	21.60	1.213	0.05	1.440	1.747
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	20.86	21.60	1.186	0.05	1.250	1.482
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	20.76	21.60	1.213	-0.02	1.180	1.432
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	20.86	21.60	1.186	0.05	2.480	2.941
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	372000	1860	20.79	21.60	1.205	0.05	2.410	2.904
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	380000	1900	20.75	21.60	1.216	-0.02	2.570	3.126
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	20.76	21.60	1.213	0.07	2.450	2.973
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	372000	1860	20.64	21.60	1.247	0.01	2.390	2.981
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	380000	1900	20.68	21.60	1.236	-0.02	2.520	3.115
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	20.73	21.60	1.222	0.07	2.290	2.798
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6 Simultaneous	380000	1900	19.20	20.10	1.230	0.02	1.730	2.128
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	9mm	Ant 1	DSI 4	376000	1880	22.98	24.00	1.265	0.08	0.468	0.592
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	376000	1880	23.15	24.00	1.216	0.06	0.367	0.446
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	13mm	Ant 1	DSI 4	380000	1900	22.87	24.00	1.297	0.04	0.521	0.676
Smart Folio mode																		
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	372000	1860	20.98	22.10	1.294	-0.03	2.110	2.731



FCC SAR Test Report

Report No. : FA192317-02

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2600MHz																	
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 0	DSI 6	21100	2535	22.83	23.50	1.167	0.05	1.840	2.147
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 0	DSI 6	20850	2510	22.71	23.50	1.199	-0.02	1.790	2.147
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 0	DSI 6	21350	2560	22.54	23.50	1.247	-0.02	1.680	2.096
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 0	DSI 6	21100	2535	22.72	23.50	1.197	0.08	1.700	2.034
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 0	DSI 6	20850	2510	22.60	23.50	1.230	0.05	1.630	2.005
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 0	DSI 6	21350	2560	22.54	23.50	1.247	-0.02	1.760	2.195
	LTE Band 7	20M	QPSK	100	0	Front	0mm	Ant 0	DSI 6	21100	2535	22.67	23.50	1.211	-0.02	1.520	1.840
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21100	2535	22.83	23.50	1.167	-0.02	1.970	2.299
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	20850	2510	22.71	23.50	1.199	0.02	2.230	2.675
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21350	2560	22.54	23.50	1.247	-0.02	1.860	2.320
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	21100	2535	22.72	23.50	1.197	-0.02	1.760	2.106
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	20850	2510	22.60	23.50	1.230	0.05	1.710	2.104
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	21350	2560	22.54	23.50	1.247	-0.02	1.720	2.145
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 0	DSI 6	21100	2535	22.67	23.50	1.211	0.06	1.640	1.985
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	22.83	23.50	1.167	0.03	2.460	2.870
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	22.71	23.50	1.199	0.01	2.480	2.975
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	22.54	23.50	1.247	0.08	2.170	2.707
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	22.72	23.50	1.197	0.05	1.790	2.142
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	22.60	23.50	1.230	-0.02	1.870	2.301
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	22.54	23.50	1.247	-0.02	1.720	2.145
	LTE Band 7	20M	QPSK	100	0	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	22.67	23.50	1.211	0.05	1.800	2.179
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 0	DSI 6 Simultaneous	20850	2510	20.72	22.00	1.343	0.01	1.740	2.336
	LTE Band 7	20M	QPSK	1	0	Front	9mm	Ant 0	DSI 4	21350	2560	23.46	24.00	1.132	-0.09	0.875	0.991
	LTE Band 7	20M	QPSK	1	0	Back	12mm	Ant 0	DSI 4	20850	2510	23.37	24.00	1.156	0.06	0.668	0.772
	LTE Band 7	20M	QPSK	1	0	Bottom Side	14mm	Ant 0	DSI 4	20850	2510	23.37	24.00	1.156	0.04	1.010	1.168
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	21100	2535	20.29	21.60	1.352	0.08	0.953	1.289
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	21100	2535	20.07	21.60	1.422	-0.02	0.802	1.141
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	21100	2535	20.29	21.60	1.352	-0.02	1.060	1.433
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	21100	2535	20.07	21.60	1.422	0.08	0.864	1.229
69	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.29	21.60	1.352	0.05	2.280	3.083
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	20850	2510	19.97	21.60	1.455	0.05	2.040	2.969
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21350	2560	20.02	21.60	1.439	-0.02	2.060	2.964
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.07	21.60	1.422	-0.02	1.800	2.560
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	20850	2510	19.99	21.60	1.449	0.05	1.570	2.275
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	21350	2560	20.04	21.60	1.432	0.04	1.780	2.549
	LTE Band 7	20M	QPSK	100	0	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.07	21.60	1.422	0.06	1.800	2.560
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6 Simultaneous	21100	2535	18.50	20.10	1.445	0.05	1.620	2.342
	LTE Band 7	20M	QPSK	1	0	Front	9mm	Ant 1	DSI 4	21100	2535	22.89	24.00	1.291	0.06	0.425	0.549
	LTE Band 7	20M	QPSK	1	0	Back	12mm	Ant 1	DSI 4	21100	2535	22.89	24.00	1.291	0.04	0.376	0.485
	LTE Band 7	20M	QPSK	1	0	Top Side	13mm	Ant 1	DSI 4	21100	2535	22.89	24.00	1.291	0.05	0.544	0.702



FCC SAR Test Report

Report No. : FA192317-02

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)	Reported 10g SAR (W/kg)
3700MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	56150	3641	22.54	24.00	1.400	62.9	1.006	-0.02	1.930	2.717
70	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	55340	3560	22.42	24.00	1.439	62.9	1.006	0.08	2.090	3.025
	LTE_CA_48C	20M	QPSK	1	99		Back	0mm	Ant 2	DSI 6	55340+55538	3560+3579.8	22.28	24.00	1.486	62.9	1.006	0.05	1.880	2.810
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	55830	3609	22.44	24.00	1.432	62.9	1.006	0.05	1.900	2.737
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	56640	3690	22.47	24.00	1.422	62.9	1.006	-0.02	2.060	2.948
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	56150	3641	21.55	23.00	1.396	62.9	1.006	0.05	1.560	2.191
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	55340	3560	21.44	23.00	1.432	62.9	1.006	-0.02	1.630	2.348
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	55830	3609	21.41	23.00	1.442	62.9	1.006	0.08	1.520	2.205
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	56640	3690	21.45	23.00	1.429	62.9	1.006	0.05	1.670	2.401
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	56150	3641	21.41	23.00	1.442	62.9	1.006	-0.02	1.600	2.321
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6 Simultaneous	55340	3560	21.12	22.70	1.439	62.9	1.006	0.08	1.485	2.149
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI 6	56150	3641	22.54	24.00	1.400	62.9	1.006	0.05	0.692	0.974
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSI 6	56150	3641	21.55	23.00	1.396	62.9	1.006	-0.02	0.559	0.785
	LTE Band 48	20M	QPSK	1	0	-	Back	18mm	Ant 2	DSI 4	56150	3641	22.54	24.00	1.400	62.9	1.006	0.03	0.178	0.251
	LTE Band 48	20M	QPSK	1	0	-	Left Side	20mm	Ant 2	DSI 4	56150	3641	22.54	24.00	1.400	62.9	1.006	0.08	0.133	0.187
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.77	18.60	1.211	-	-	0.02	2.010	2.433
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.53	18.60	1.279	-	-	0.03	1.810	2.316
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	17.38	18.60	1.324	-	-	0.06	1.810	2.397
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	656000	3840	17.77	18.60	1.211	-	-	0.04	0.670	0.811
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 2	DSI 6	656000	3840	17.53	18.60	1.279	-	-	0.09	0.660	0.844
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	656000	3840	16.27	17.10	1.211	-	-	-0.01	1.420	1.719
	FR1 n77 Part270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	656000	3840	20.76	21.60	1.213	50	1.000	0.02	1.930	2.342
	FR1 n77 Part270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	656000	3840	19.32	20.10	1.197	50	1.000	-0.01	1.490	1.783
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 2	DSI 4	656000	3840	23.24	24.00	1.191	-	-	0.03	0.048	0.057
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	20mm	Ant 2	DSI 4	656000	3840	23.24	24.00	1.191	-	-	0.04	0.132	0.157
71	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.59	18.60	1.262	-	-	0.03	2.490	3.142
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.50	18.60	1.288	-	-	0.04	2.240	2.886
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.37	18.60	1.327	-	-	0.08	2.170	2.880
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	633334	3500.01	16.23	17.10	1.222	-	-	0.03	1.740	2.126
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	20.68	21.60	1.236	50	1.000	0.03	2.370	2.929
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6 Simultaneous	633334	3500.01	19.55	20.10	1.135	50	1.000	0.03	1.680	1.907
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 2	DSI 4	633334	3500.01	23.21	24.00	1.199	-	-	0.06	0.148	0.178
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	21.24	21.90	1.164	-	-	0.06	1.890	2.200
	FR1 n77 Part270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	21.03	21.90	1.222	-	-	0.09	1.790	2.187
	FR1 n77 Part270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	20.67	21.90	1.327	-	-	0.09	1.620	2.150
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6 Simultaneous	656000	3840	19.76	20.40	1.159	-	-	0.06	1.010	1.170
	FR1 n77 Part270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	24.18	24.90	1.180	50	1.000	0.06	1.830	2.160
	FR1 n77 Part270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6 Simultaneous	656000	3840	22.64	23.40	1.191	50	1.000	0.06	1.010	1.203
	FR1 n77 Part270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 7	DSI 4	656000	3840	22.74	24.00	1.337	-	-	0.01	0.152	0.203
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	21.17	21.90	1.183	-	-	0.01	2.610	3.088
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	20.96	21.90	1.242	-	-	0.03	2.380	2.955
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	20.85	21.90	1.274	-	-	0.01	2.350	2.993
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 7	DSI 6	633334	3500.01	21.17	21.90	1.183	-	-	0.04	1.250	1.479
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 7	DSI 6	633334	3500.01	20.96	21.90	1.242	-	-	0.02	1.250	1.552
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6 Simultaneous	633334	3500.01	19.67	20.40	1.183	-	-	-0.06	1.850	2.189
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	24.06	24.90	1.213	50	1.000	0.01	2.520	3.058
	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6 Simultaneous	633334	3500.01	22.48	23.40	1.236	50	1.000	-0.06	1.740	2.151
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	18mm	Ant 7	DSI 4	633334	3500.01	22.67	24.00	1.358	-	-	0.04	0.302	0.410
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	13mm	Ant 7	DSI 4	633334	3500.01	22.67	24.00	1.358	-	-	-0.02	0.426	0.579
Smart Folio mode																				
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.59	18.60	1.262	-	-	0.06	2.170	2.738
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	21.17	21.90	1.183	-	-	-0.08	2.150	2.544

Sporton International (Kunshan) Inc.

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FCC ID : IHDT56AB3

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Issued Date : Jan. 27, 2022

Form version. : 200414



Plot No.	Band	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)	Reported 10g SAR (W/kg)
WLAN/Bluetooth																
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5+6	Full	64	5320	19.61	21.00	1.377	100	1.000	0.06	0.297	0.409
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 5+6	Full	64	5320	19.61	21.00	1.377	100	1.000	0.03	0.638	0.879
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant 5+6	Full	64	5320	19.61	21.00	1.377	100	1.000	0.09	0.185	0.255
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+6	Full	64	5320	19.61	21.00	1.377	100	1.000	0.04	0.179	0.247
72	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+6	Full	64	5320	19.61	21.00	1.377	100	1.000	-0.06	0.829	1.142
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+WLAN&WWAN&DBS	58	5290	16.64	18.00	1.368	100	1.000	0.06	0.468	0.640
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+6	Standalone&DBS only	110	5550	20.20	21.50	1.349	100	1.000	0.04	0.414	0.558
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+6	Standalone&DBS only	110	5550	20.20	21.50	1.349	100	1.000	-0.03	0.628	0.847
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 5+6	Standalone&DBS only	110	5550	20.20	21.50	1.349	100	1.000	0.05	0.247	0.333
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+6	Standalone&DBS only	110	5550	20.20	21.50	1.349	100	1.000	0.07	0.118	0.159
73	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	Standalone&DBS only	110	5550	20.20	21.50	1.349	100	1.000	0.04	1.150	1.551
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	Standalone&DBS only	102	5510	20.08	21.50	1.387	100	1.000	-0.01	1.090	1.512
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+6	WWAN+WLAN&WWAN&DBS	106	5530	16.31	17.50	1.315	100	1.000	0.08	0.487	0.640
Smart Folio mode																
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+6	Standalone&DBS only	110	5550	20.20	21.50	1.349	100	1.000	0.01	1.030	1.389



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	-	DSI 2	23230	782	24.33	25	1.167	-	-	0.03	0.988	1	1.153
2nd	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	-	DSI 2	23230	782	24.33	25	1.167	-	-	0.05	0.975	1.013	1.138
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	-	DSI 2	4233	846.6	22.47	23.2	1.183	-	-	-0.06	1.060	1	1.254
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	-	DSI 2	4233	846.6	22.47	23.2	1.183	-	-	0.01	0.994	1.066	1.176
1st	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	132572	1770	17.19	18.1	1.233	-	-	-0.02	1.010	1	1.245
2nd	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	-	DSI 2	132572	1770	17.19	18.1	1.233	-	-	0.06	0.985	1.025	1.215
1st	FR1 n77 Part27O	100M	QPSK	1	1	-	Right Cheek	0mm	Ant 2	-	DSI 2	656000	3840	19.78	20.60	1.208	-	-	0.03	0.978	1	1.181
2nd	FR1 n77 Part27O	100M	QPSK	1	1	-	Right Cheek	0mm	Ant 2	-	DSI 2	656000	3840	19.78	20.60	1.208	-	-	0.07	0.962	1.017	1.162
1st	FR1 n77 Part27Q	100M	QPSK	135	69	-	Right Cheek	0mm	Ant 2	-	DSI 2	633334	3500.01	19.97	20.60	1.156	-	-	0.02	1.084	1	1.253
2nd	FR1 n77 Part27Q	100M	QPSK	135	69	-	Right Cheek	0mm	Ant 2	-	DSI 2	633334	3500.01	19.97	20.60	1.156	-	-	0.01	0.998	1.086	1.154
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	-	-	11	2462	21.05	22.00	1.245	97.87	1.022	0.07	0.988	1	1.257
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Right Cheek	0mm	Ant 4+6	-	-	11	2462	21.05	22.00	1.245	97.87	1.022	0.02	0.971	1.018	1.235
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	-	-	124	5620	21.07	22.50	1.389	100	1.000	0.07	0.863	1	1.199
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Right Tilted	0mm	Ant 5+6	-	-	124	5620	21.07	22.50	1.389	100	1.000	0.01	0.842	1.025	1.170
1st	WLAN5.8GHz	-	-	-	-	802.11a 6Mbps	Right Cheek	0mm	Ant 5+6	-	-	165	5825	20.86	22.00	1.300	100	1.000	0.07	0.805	1	1.047
2nd	WLAN5.8GHz	-	-	-	-	802.11a 6Mbps	Right Cheek	0mm	Ant 5+6	-	-	165	5825	20.86	22.00	1.300	100	1.000	0.05	0.794	1.014	1.032
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	22.90	23.50	1.148	-	-	0.08	1.090	1	1.251
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	22.90	23.50	1.148	-	-	0.05	1.020	1.069	1.171
1st	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	18.59	19.20	1.151	-	-	0.07	1.080	1	1.243
2nd	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	132322	1745	18.59	19.20	1.151	-	-	0.03	0.998	1.082	1.148
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	18.17	18.70	1.130	-	-	0.17	1.100	1	1.243
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	9262	1852.4	18.17	18.70	1.130	-	-	0.17	1.050	1.048	1.186
1st	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	20.47	21.50	1.268	-	-	0.05	0.978	1	1.240
2nd	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	20.47	21.50	1.268	-	-	0.02	0.957	1.022	1.213
1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	20.17	20.90	1.183	-	-	0.01	1.050	1	1.242
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	20.17	20.90	1.183	-	-	0.03	0.989	1.062	1.170
1st	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	17.23	18.50	1.340	62.9	1.006	0.03	0.929	1	1.252
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	56150	3641	17.23	18.50	1.340	62.9	1.006	0.01	0.910	1.021	1.226
1st	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	17.64	18.50	1.219	50	1.000	0.02	1.010	1	1.231
2nd	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	633334	3500.01	17.64	18.50	1.219	50	1.000	0.01	0.977	1.034	1.191
1st	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	19.20	20.20	1.259	50	1.000	-0.05	0.981	1	1.235
2nd	FR1 n77 Part27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	633334	3500.01	19.20	20.20	1.259	50	1.000	-0.09	0.951	1.032	1.197
1st	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	14.52	15.50	1.253	-	-	-0.08	0.945	1	1.184
2nd	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	656000	3840	14.52	15.50	1.253	-	-	-0.01	0.921	1.026	1.154
1st	WLAN5.2GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	-	42	5210	17.42	18.50	1.282	100	1.000	-0.01	0.810	1	1.039
2nd	WLAN5.2GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+6	-	-	42	5210	17.42	18.50	1.282	100	1.000	0.06	0.794	1.020	1.018
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Back	5mm	Ant 5+6	-	-	124	5620	21.07	22.50	1.389	100	1.000	0.05	0.807	1	1.121
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Back	5mm	Ant 5+6	-	-	124	5620	21.07	22.50	1.389	100	1.000	0.02	0.798	1.011	1.109



<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	21.08	22.10	1.265	-	-	0.04	2.440	1	3.086
2nd	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 0	DSI 6	349000	1745	21.08	22.10	1.265	-	-	0.05	2.350	1.038	2.972
1st	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	21.05	21.90	1.216	-	-	0.02	2.540	1	3.089
2nd	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	21.05	21.90	1.216	-	-	0.03	2.390	1.063	2.907
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	21.59	22.40	1.205	-	-	0.07	2.580	1	3.109
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	DSI 6	9538	1907.6	21.59	22.40	1.205	-	-	0.06	2.410	1.071	2.904
1st	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	19100	1900	20.07	20.60	1.130	-	-	-0.02	2.770	1	3.130
2nd	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	19100	1900	20.07	20.60	1.127	-	-	0.01	2.650	1.045	2.994
1st	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	22.71	23.50	1.199	-	-	0.01	2.480	1	2.975
2nd	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	22.71	23.50	1.199	-	-	0.09	2.400	1.033	2.879
1st	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.29	21.60	1.352	-	-	0.05	2.280	1	3.083
2nd	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	20.29	21.60	1.352	-	-	0.02	2.120	1.075	2.866
1st	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	55340	3560	22.42	24.00	1.439	62.9	1.006	0.08	2.090	1	3.025
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	55340	3560	22.42	24.00	1.439	62.9	1.006	0.05	1.990	1.050	2.880
1st	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.59	18.60	1.262	-	-	0.03	2.490	1	3.142
2nd	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	633334	3500.01	17.59	18.60	1.262	-	-	-0.09	2.420	1.029	3.054
1st	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	21.17	21.90	1.183	-	-	0.01	2.610	1	3.088
2nd	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	633334	3500.01	21.17	21.90	1.183	-	-	-0.05	2.530	1.032	2.993
1st	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 3	656000	3840	17.77	18.60	1.211			0.02	2.010	1	2.433
2nd	FR1 n77 Part27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 3	656000	3840	17.77	18.60	1.211			-0.09	1.930	1.041	2.336

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. 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.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 5G NR FR1 n77/n78 Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for 5G NR FR1 n77/n78. The highest available duty cycle for Power Class 2 operation is 50% 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, Separate SAR testing for Power Class 2 is not required

FR1 N77O(HPUE) Ant 2-Linearity Data for Head			FR1 N77Q(HPUE) Ant 2-Linearity Data for Head		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	20.60	23.60	Maximum Tune up Power (dBm)	20.60	23.60
Reported 1g SAR (W/kg)	1.18	1.12	Reported 1g SAR (W/kg)	1.25	1.24
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	114.82	114.54	Frame Averaged (mW)	114.82	114.54
Linearity SAR (W/kg)	1.250		Linearity SAR (W/kg)	1.250	
% deviation from expected linearity		-0.80%	% deviation from expected linearity		-0.80%
FR1 N77O(HPUE) Ant 2-Linearity Data for Hotspot			FR1 N77Q(HPUE) Ant 2-Linearity Data for Hotspot		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	13.90	16.90	Maximum Tune up Power (dBm)	13.90	16.90
Reported 1g SAR (W/kg)	0.920	0.940	Reported 1g SAR (W/kg)	0.842	0.885
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	24.55	24.49	Frame Averaged (mW)	24.55	24.49
Linearity SAR (W/kg)	0.918		Linearity SAR (W/kg)	0.840	
% deviation from expected linearity		2.42%	% deviation from expected linearity		5.36%
FR1 N77O(HPUE) Ant 2-Linearity Data for Body-worn			FR1 N77Q(HPUE) Ant 2-Linearity Data for Body-worn		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50	Maximum Tune up Power (dBm)	15.50	18.50
Reported 1g SAR (W/kg)	1.184	1.183	Reported 1g SAR (W/kg)	1.212	1.231
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40	Frame Averaged (mW)	35.48	35.40
Linearity SAR (W/kg)	1.181		Linearity SAR (W/kg)	1.209	
% deviation from expected linearity		0.15%	% deviation from expected linearity		1.81%
FR1 N77O(HPUE) Ant 2-Linearity Data for Extremity SAR			FR1 N77Q(HPUE) Ant 2-Linearity Data for Extremity SAR		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	18.60	21.60	Maximum Tune up Power (dBm)	18.60	21.60
Reported 1g SAR (W/kg)	2.433	2.342	Reported 1g SAR (W/kg)	3.14	2.93
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	72.44	72.27	Frame Averaged (mW)	72.44	72.27
Linearity SAR (W/kg)	2.427		Linearity SAR (W/kg)	3.135	
% deviation from expected linearity		-3.51%	% deviation from expected linearity		-6.56%

FR1 N77O(HPUE) Ant 7-Linearity Data for Head			FR1 N77Q(HPUE) Ant 7-Linearity Data for Head		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.19	0.21	Reported 1g SAR (W/kg)	0.61	0.64
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.194		Linearity SAR (W/kg)	0.608	
% deviation from expected linearity		5.92%	% deviation from expected linearity		5.01%
FR1 N77O(HPUE) Ant 7-Linearity Data for Hotspot			FR1 N77Q(HPUE) Ant 7-Linearity Data for Hotspot		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	15.90	18.90	Maximum Tune up Power (dBm)	15.90	18.90
Reported 1g SAR (W/kg)	0.70	0.65	Reported 1g SAR (W/kg)	0.89	0.94
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	38.90	38.81	Frame Averaged (mW)	38.90	38.81
Linearity SAR (W/kg)	0.695		Linearity SAR (W/kg)	0.889	
% deviation from expected linearity		-6.67%	% deviation from expected linearity		5.19%
FR1 N77O(HPUE) Ant 7-Linearity Data for Body-worn			FR1 N77Q(HPUE) Ant 7-Linearity Data for Body-worn		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	17.20	20.20	Maximum Tune up Power (dBm)	17.20	20.20
Reported 1g SAR (W/kg)	0.900	0.881	Reported 1g SAR (W/kg)	1.193	1.235
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	52.48	52.36	Frame Averaged (mW)	52.48	52.36
Linearity SAR (W/kg)	0.898		Linearity SAR (W/kg)	1.190	
% deviation from expected linearity		-1.88%	% deviation from expected linearity		3.77%
FR1 N77O(HPUE) Ant 7-Linearity Data for Extremity SAR			FR1 N77Q(HPUE) Ant 7-Linearity Data for Extremity SAR		
	FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)		FR1 N77 (Power Class 3)	FR1 N77 (Power Class 2)
Maximum Tune up Power (dBm)	21.90	24.90	Maximum Tune up Power (dBm)	21.90	24.90
Reported 1g SAR (W/kg)	2.200	2.160	Reported 1g SAR (W/kg)	3.088	3.058
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	154.88	154.51	Frame Averaged (mW)	154.88	154.51
Linearity SAR (W/kg)	2.195		Linearity SAR (W/kg)	3.081	
% deviation from expected linearity		-1.59%	% deviation from expected linearity		-0.74%

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 + WLAN6E	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	Bluetooth + WLAN5GHz	Yes	Yes	Yes	Yes
6.	Bluetooth + WLAN6E	Yes	Yes		Yes
7.	WWAN + Bluetooth + WLAN5GHz	Yes	Yes	Yes	Yes
8.	WWAN + Bluetooth + WLAN6E	Yes	Yes		Yes
9.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
10.	WWAN + WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
11.	WLAN2.4GHz + WLAN6E	Yes	Yes		Yes
12.	WWAN + WLAN 2.4GHz + WLAN6E	Yes	Yes		Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- 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).WIFI 6E has no hotspot function.
- The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- 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 transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.
- SAR Power density test report for WLAN6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
- 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.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

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

Above analysis is also apply to LTE inter band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, So inter band CA uplink no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.

Above analysis is also apply to NR band UL MIMO, NR1 + NR2 + WLAN + BT simultaneous transmission, So UL MIMO no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of NR + WLAN + BT < 1.



17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 DBS Only 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN+ DBS 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 DBS Only 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN+ WLAN 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN+ DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WIFI 6E 1g SAR (W/kg)								
GSM850 Ant 0	Right Cheek	0.208	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.78	0.77	0.70	0.77	0.48	0.70	0.42
	Right Tilted	0.150	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.72	0.71	0.68	0.71	0.43	0.68	0.40
	Left Cheek	0.157	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.73	0.72	0.63	0.71	0.43	0.63	0.35
	Left Tilted	0.125	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.70	0.69	0.67	0.68	0.40	0.67	0.38
GSM850 Ant 1	Right Cheek	0.856	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.43	1.42	1.35	1.41	1.13	1.35	1.07
	Right Tilted	0.856	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.86	1.13	1.10	1.41	1.13	1.39	1.10
	Left Cheek	0.856	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.43	1.42	1.33	1.41	1.13	1.33	1.04
	Left Tilted	0.856	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.43	1.42	1.40	1.41	1.13	1.40	1.11
GSM1900 Ant 0	Right Cheek	0.012	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.58	0.57	0.51	0.57	0.29	0.50	0.22
	Right Tilted	0.004	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.58	0.56	0.54	0.56	0.28	0.53	0.25
	Left Cheek	0.022	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.59	0.58	0.50	0.58	0.30	0.49	0.21
	Left Tilted	0.003	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.55	0.56	0.28	0.54	0.26
WCDMA II Ant 0	Right Cheek	0.039	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.61	0.60	0.53	0.60	0.31	0.53	0.25
	Right Tilted	0.002	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.57	0.56	0.53	0.56	0.28	0.53	0.25
	Left Cheek	0.056	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.63	0.62	0.53	0.61	0.33	0.53	0.24
	Left Tilted	0.038	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.61	0.60	0.58	0.60	0.31	0.58	0.30
WCDMA V Ant 1	Right Cheek	0.778	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.35	1.34	1.27	1.34	1.05	1.27	0.99
	Right Tilted	0.778	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.35	1.34	1.31	1.34	1.05	1.31	1.03
	Left Cheek	0.778	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.35	1.34	1.25	1.34	1.05	1.25	0.97
	Left Tilted	0.778	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.35	1.34	1.32	1.34	1.05	1.32	1.04
WCDMA V Ant 0	Right Cheek	0.211	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.78	0.77	0.71	0.77	0.49	0.70	0.42
	Right Tilted	0.137	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.71	0.70	0.67	0.69	0.41	0.67	0.38
	Left Cheek	0.152	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.72	0.71	0.63	0.71	0.43	0.62	0.34
	Left Tilted	0.128	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.70	0.69	0.67	0.69	0.40	0.67	0.39
LTE Band 2 Ant 0	Right Cheek	0.039	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.61	0.60	0.53	0.60	0.31	0.53	0.25
	Right Tilted	0.004	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.58	0.56	0.54	0.56	0.28	0.53	0.25
	Left Cheek	0.059	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.63	0.62	0.53	0.62	0.33	0.53	0.25
	Left Tilted	0.039	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.61	0.60	0.58	0.60	0.31	0.58	0.30
LTE Band 2 Ant 1	Right Cheek	0.742	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.31	1.30	1.24	1.30	1.02	1.23	0.95
	Right Tilted	0.742	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.31	1.30	1.27	1.30	1.02	1.27	0.99
	Left Cheek	0.742	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.31	1.30	1.22	1.30	1.02	1.21	0.93
	Left Tilted	0.742	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.31	1.30	1.29	1.30	1.02	1.28	1.00
LTE Band 5 Ant 0	Right Cheek	0.216	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.79	0.78	0.71	0.77	0.49	0.71	0.43
	Right Tilted	0.131	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.70	0.69	0.66	0.69	0.41	0.66	0.38
	Left Cheek	0.148	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.72	0.71	0.62	0.71	0.42	0.62	0.34
	Left Tilted	0.116	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.69	0.68	0.66	0.67	0.39	0.66	0.37
LTE Band 5 Ant 1	Right Cheek	0.858	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.43	1.42	1.35	1.42	1.13	1.35	1.07
	Right Tilted	0.858	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.43	1.42	1.39	1.42	1.13	1.39	1.11
	Left Cheek	0.858	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.43	1.42	1.33	1.42	1.13	1.33	1.05
	Left Tilted	0.858	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.43	1.42	1.40	1.42	1.13	1.40	1.12
LTE Band 7 Ant 0	Right Cheek	0.107	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.68	0.67	0.60	0.66	0.38	0.60	0.32
	Right Tilted	0.051	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.62	0.61	0.58	0.61	0.33	0.58	0.30
	Left Cheek	0.064	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.64	0.62	0.54	0.62	0.34	0.53	0.25
	Left Tilted	0.070	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.64	0.63	0.61	0.63	0.35	0.61	0.33
LTE Band 7 Ant 1	Right Cheek	0.848	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.42	1.41	1.34	1.41	1.12	1.34	1.06
	Right Tilted	0.848	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.42	1.41	1.38	1.41	1.12	1.38	1.10
	Left Cheek	0.848	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.42	1.41	1.32	1.41	1.12	1.32	1.04
	Left Tilted	0.848	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.42	1.41	1.39	1.41	1.12	1.39	1.11



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LTE Band 12 Ant 0	Right Cheek	0.209	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.78	0.77	0.70	0.77	0.48	0.70	0.42
	Right Tilted	0.121	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.69	0.68	0.65	0.68	0.40	0.65	0.37
	Left Cheek	0.141	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.71	0.70	0.61	0.70	0.42	0.61	0.33
	Left Tilted	0.100	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.67	0.66	0.64	0.66	0.38	0.64	0.36
LTE Band 12 Ant 1	Right Cheek	0.846	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.42	1.41	1.34	1.40	1.12	1.34	1.06
	Right Tilted	0.846	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.42	1.41	1.38	1.40	1.12	1.38	1.09
	Left Cheek	0.846	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.42	1.41	1.32	1.40	1.12	1.32	1.03
	Left Tilted	0.846	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.42	1.41	1.39	1.40	1.12	1.39	1.10
LTE Band 13 Ant 0	Right Cheek	0.179	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.75	0.74	0.67	0.74	0.45	0.67	0.39
	Right Tilted	0.105	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.68	0.67	0.64	0.66	0.38	0.63	0.35
	Left Cheek	0.125	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.70	0.69	0.60	0.68	0.40	0.60	0.31
	Left Tilted	0.079	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.65	0.64	0.62	0.64	0.35	0.62	0.34
LTE Band 13 Ant 1	Right Cheek	0.785	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.36	1.35	1.28	1.34	1.06	1.28	1.00
	Right Tilted	0.785	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.36	1.35	1.32	1.34	1.06	1.31	1.03
	Left Cheek	0.785	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.36	1.35	1.26	1.34	1.06	1.26	0.97
	Left Tilted	0.785	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.36	1.35	1.33	1.34	1.06	1.33	1.04
LTE Band 66 Ant 0	Right Cheek	0.090	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.66	0.65	0.59	0.65	0.37	0.58	0.30
	Right Tilted	0.066	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.64	0.63	0.60	0.62	0.34	0.60	0.31
	Left Cheek	0.097	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.67	0.66	0.57	0.65	0.37	0.57	0.29
	Left Tilted	0.078	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.65	0.64	0.62	0.64	0.35	0.62	0.34
LTE Band 66 Ant 1	Right Cheek	0.983	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.55	1.54	1.48	1.54	1.26	1.48	1.19
	Right Tilted	0.983	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.55	1.54	1.52	1.54	1.26	1.51	1.23
	Left Cheek	0.983	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.55	1.54	1.46	1.54	1.26	1.45	1.17
	Left Tilted	0.983	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.55	1.54	1.53	1.54	1.26	1.52	1.24
LTE Band 48 Ant 2	Right Cheek	0.946	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.52	1.51	1.44	1.50	1.22	1.44	1.16
	Right Tilted	0.449	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.02	1.01	0.98	1.01	0.72	0.98	0.70
	Left Cheek	0.255	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.83	0.82	0.73	0.81	0.53	0.73	0.44
	Left Tilted	0.179	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.75	0.74	0.72	0.74	0.45	0.72	0.44



<5GNR Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 DBS Only 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN+ DBS 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 DBS Only 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN+ WLAN 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN+ DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WIFI 6E 1g SAR (W/kg)								
FR1 n2 Ant 0	Right Cheek	0.028	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.60	0.59	0.52	0.59	0.30	0.52	0.24
	Right Tilted	0.032	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.60	0.59	0.56	0.59	0.31	0.56	0.28
	Left Cheek	0.042	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.61	0.60	0.52	0.60	0.32	0.51	0.23
	Left Tilted	0.036	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.61	0.60	0.58	0.59	0.31	0.58	0.29
FR1 n2 Ant 1	Right Cheek	0.902	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.47	1.46	1.40	1.46	1.18	1.39	1.11
	Right Tilted	0.902	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.90	1.17	1.15	1.46	1.18	1.43	1.15
	Left Cheek	0.902	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.47	1.46	1.38	1.46	1.18	1.37	1.09
	Left Tilted	0.902	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.47	1.46	1.45	1.46	1.18	1.44	1.16
FR1 n5 Ant 0	Right Cheek	0.161	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.73	0.72	0.66	0.72	0.44	0.65	0.37
	Right Tilted	0.097	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.67	0.66	0.63	0.65	0.37	0.63	0.34
	Left Cheek	0.109	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.68	0.67	0.58	0.67	0.38	0.58	0.30
	Left Tilted	0.087	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.66	0.65	0.63	0.64	0.36	0.63	0.35
FR1 n5 Ant 1	Right Cheek	0.851	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.42	1.41	1.35	1.41	1.13	1.34	1.06
	Right Tilted	0.851	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.42	1.41	1.38	1.41	1.13	1.38	1.10
	Left Cheek	0.851	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.42	1.41	1.32	1.41	1.13	1.32	1.04
	Left Tilted	0.851	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.42	1.41	1.39	1.41	1.13	1.39	1.11
FR1 n66 Ant 0	Right Cheek	0.054	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.63	0.61	0.55	0.61	0.33	0.55	0.26
	Right Tilted	0.051	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.62	0.61	0.58	0.61	0.33	0.58	0.30
	Left Cheek	0.062	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.63	0.62	0.54	0.62	0.34	0.53	0.25
	Left Tilted	0.041	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.61	0.60	0.58	0.60	0.32	0.58	0.30
FR1 n66 Ant 1	Right Cheek	0.922	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.49	1.48	1.42	1.48	1.20	1.41	1.13
	Right Tilted	0.922	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.49	1.48	1.45	1.48	1.20	1.45	1.17
	Left Cheek	0.922	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.49	1.48	1.40	1.48	1.20	1.39	1.11
	Left Tilted	0.922	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.49	1.48	1.47	1.48	1.20	1.46	1.18
FR1 n77 Part 270 Ant 2	Right Cheek	0.761	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.33	1.32	1.26	1.32	1.04	1.25	0.97
	Right Tilted	0.761	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.33	1.32	1.29	1.32	1.04	1.29	1.01
	Left Cheek	0.761	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.33	1.32	1.23	1.32	1.04	1.23	0.95
	Left Tilted	0.761	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.33	1.32	1.30	1.32	1.04	1.30	1.02
FR1 n77 Part 270 Ant 7	Right Cheek	0.149	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	0.72	0.71	0.64	0.71	0.42	0.64	0.36
	Right Tilted	0.201	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	0.77	0.76	0.73	0.76	0.48	0.73	0.45
	Left Cheek	0.077	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	0.65	0.64	0.55	0.63	0.35	0.55	0.27
	Left Tilted	0.088	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.66	0.65	0.63	0.65	0.36	0.63	0.35
FR1 n77 Part 27Q Ant 2	Right Cheek	0.890	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.46	1.45	1.39	1.45	1.17	1.38	1.10
	Right Tilted	0.890	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.46	1.45	1.42	1.45	1.17	1.42	1.14
	Left Cheek	0.890	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.46	1.45	1.36	1.45	1.17	1.36	1.08
	Left Tilted	0.890	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.46	1.45	1.43	1.45	1.17	1.43	1.15
FR1 n77 Part 27Q Ant 7	Right Cheek	0.631	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.207	1.47	1.20	1.19	1.13	1.19	0.91	1.12	0.84
	Right Tilted	0.597	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.244	1.47	1.17	1.16	1.13	1.15	0.87	1.13	0.84
	Left Cheek	0.471	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.185	1.47	1.04	1.03	0.94	1.03	0.75	0.94	0.66
	Left Tilted	0.482	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	1.05	1.04	1.03	1.04	0.76	1.02	0.74



<SRS Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 DBS Only 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN 1g SAR (W/kg)	WLAN 2.4GHz Ant 4+6 WWAN+ DBS 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 DBS Only 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN+ WLAN 1g SAR (W/kg)	WLAN 5GHz Ant 5+6 WWAN+ DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	WIFI 6E 1g SAR (W/kg)								
FR1 n77 Part 27O Ant 3	Right Cheek	0.003	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.55	0.56	0.28	0.54	0.26
	Right Tilted	0.002	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.55	0.56	0.28	0.54	0.26
	Left Cheek	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Left Tilted	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
FR1 n77 Part 27O Ant 8	Right Cheek	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Right Tilted	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Left Cheek		0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Left Tilted	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
FR1 n77 Part 27Q Ant 3	Right Cheek	0.002	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.55	0.56	0.28	0.54	0.26
	Right Tilted	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Left Cheek	0.002	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.55	0.56	0.28	0.54	0.26
	Left Tilted	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
FR1 n77 Part 27Q Ant 8	Right Cheek	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Right Tilted	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Left Cheek	0.001	0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26
	Left Tilted		0.734	0.571	0.288	0.732	0.272	0.272	0.285	0.003	0.255	1.47	0.57	0.56	0.54	0.56	0.28	0.54	0.26

17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2 Summed 1g SAR (W/kg)	1+3+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 WWAN+WLAN 1g SAR (W/kg)	WLAN2.4GHz Ant 4+6 WWAN+DBS 1g SAR (W/kg)	WLAN5GHz Ant 5+6 WWAN+WLAN 1g SAR (W/kg)	WLAN5GHz Ant 5+6 WWAN+DBS 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)				
GSM850 Ant 0	Front	0.638	0.231	0.221	0.160	0.160	0.197	0.029	0.87	1.02	1.00	0.83
	Back	1.012	0.278	0.221	0.245	0.245	0.241	0.087	1.29	1.48	1.50	1.34
	Left side	0.117	0.073	0.221	0.115	0.115	0.074	0.036	0.19	0.45	0.31	0.27
	Right side	0.267	0.068	0.221	0.083	0.083	0.064	0.032	0.34	0.57	0.41	0.38
	Top side		0.439	0.221	0.276	0.276	0.287	0.009	0.44	0.50	0.56	0.29
	Bottom side	0.536							0.54	0.54	0.54	0.54
GSM850 Ant 1	Front	0.629	0.231	0.221	0.160	0.160	0.197	0.029	0.86	1.01	0.99	0.82
	Back	0.794	0.278	0.221	0.245	0.245	0.241	0.087	1.07	1.26	1.28	1.13
	Left side	0.195	0.073	0.221	0.115	0.115	0.074	0.036	0.27	0.53	0.38	0.35
	Right side	0.343	0.068	0.221	0.083	0.083	0.064	0.032	0.41	0.65	0.49	0.46
	Top side	0.939	0.439	0.221	0.276	0.276	0.287	0.009	1.38	1.44	1.50	1.22
	Bottom side								0.00	0.00	0.00	0.00
GSM1900 Ant 0	Front	0.454	0.231	0.221	0.160	0.160	0.197	0.029	0.69	0.84	0.81	0.64
	Back	0.500	0.278	0.221	0.245	0.245	0.241	0.087	0.78	0.97	0.99	0.83
	Left side	0.028	0.073	0.221	0.115	0.115	0.074	0.036	0.10	0.36	0.22	0.18
	Right side	0.029	0.068	0.221	0.083	0.083	0.064	0.032	0.10	0.33	0.18	0.14
	Top side		0.439	0.221	0.276	0.276	0.287	0.009	0.44	0.50	0.56	0.29
	Bottom side	0.940							0.94	0.94	0.94	0.94
WCDMA II Ant 0	Front	0.402	0.231	0.221	0.160	0.160	0.197	0.029	0.63	0.78	0.76	0.59
	Back	0.460	0.278	0.221	0.245	0.245	0.241	0.087	0.74	0.93	0.95	0.79
	Left side	0.024	0.073	0.221	0.115	0.115	0.074	0.036	0.10	0.36	0.21	0.18
	Right side	0.020	0.068	0.221	0.083	0.083	0.064	0.032	0.09	0.32	0.17	0.14
	Top side		0.439	0.221	0.276	0.276	0.287	0.009	0.44	0.50	0.56	0.29
	Bottom side	0.927							0.93	0.93	0.93	0.93
WCDMA V Ant 0	Front	0.472	0.231	0.221	0.160	0.160	0.197	0.029	0.70	0.85	0.83	0.66
	Back	0.761	0.278	0.221	0.245	0.245	0.241	0.087	1.04	1.23	1.25	1.09
	Left side	0.084	0.073	0.221	0.115	0.115	0.074	0.036	0.16	0.42	0.27	0.24
	Right side	0.130	0.068	0.221	0.083	0.083	0.064	0.032	0.20	0.43	0.28	0.25
	Top side		0.439	0.221	0.276	0.276	0.287	0.009	0.44	0.50	0.57	0.29
	Bottom side	0.479							0.48	0.48	0.48	0.48
WCDMA V Ant 1	Front	0.472	0.231	0.221	0.160	0.160	0.197	0.029	0.70	0.85	0.83	0.66
	Back	0.618	0.278	0.221	0.245	0.245	0.241	0.087	0.90	1.08	1.10	0.95
	Left side	0.146	0.073	0.221	0.115	0.115	0.074	0.036	0.22	0.48	0.34	0.30
	Right side	0.305	0.068	0.221	0.083	0.083	0.064	0.032	0.37	0.61	0.45	0.42
	Top side	0.964	0.439	0.221	0.276	0.276	0.287	0.009	1.40	1.46	1.53	1.25
	Bottom side								0.00	0.00	0.00	0.00
LTE Band 2 Ant 0	Front	0.420	0.231	0.221	0.160	0.160	0.197	0.029	0.65	0.80	0.78	0.61
	Back	0.456	0.278	0.221	0.245	0.245	0.241	0.087	0.73	0.92	0.94	0.79
	Left side	0.020	0.073	0.221	0.115	0.115	0.074	0.036	0.09	0.36	0.21	0.17
	Right side	0.021	0.068	0.221	0.083	0.083	0.064	0.032	0.09	0.33	0.17	0.14
	Top side		0.439	0.221	0.276	0.276	0.287	0.009	0.44	0.50	0.56	0.29
	Bottom side	0.948							0.95	0.95	0.95	0.95
LTE Band 2 Ant 1	Front	0.457	0.231	0.221	0.160	0.160	0.197	0.029	0.69	0.84	0.81	0.65
	Back	0.638	0.278	0.221	0.245	0.245	0.241	0.087	0.92	1.10	1.12	0.97
	Left side	0.032	0.073	0.221	0.115	0.115	0.074	0.036	0.11	0.37	0.22	0.18
	Right side	0.099	0.068	0.221	0.083	0.083	0.064	0.032	0.17	0.40	0.25	0.21
	Top side	1.017	0.439	0.221	0.276	0.276	0.287	0.009	1.46	1.51	1.58	1.30
	Bottom side								0.00	0.00	0.00	0.00
LTE Band 5 Ant 0	Front	0.632	0.231	0.221	0.160	0.160	0.197	0.029	0.86	1.01	0.99	0.82
	Back	0.844	0.278	0.221	0.245	0.245	0.241	0.087	1.12	1.31	1.33	1.18



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	Left side	0.091	0.073	0.221	0.115	0.115	0.074	0.036	0.16	0.43	0.28	0.24
	Right side	0.154	0.068	0.221	0.083	0.083	0.064	0.032	0.22	0.46	0.30	0.27
	Top side		0.439	0.221	0.276	0.276	0.287	0.009	0.44	0.50	0.56	0.29
	Bottom side	0.571							0.57	0.57	0.57	0.57
LTE Band 5 Ant 1	Front	0.533	0.231	0.221	0.160	0.160	0.197	0.029	0.76	0.91	0.89	0.72
	Back	0.677	0.278	0.221	0.245	0.245	0.241	0.087	0.96	1.14	1.16	1.01
	Left side	0.146	0.073	0.221	0.115	0.115	0.074	0.036	0.22	0.48	0.34	0.30
	Right side	0.311	0.068	0.221	0.083	0.083	0.064	0.032	0.38	0.62	0.46	0.43
	Top side	0.937	0.439	0.221	0.276	0.276	0.287	0.009	1.38	1.43	1.50	1.22
	Bottom side								0.00	0.00	0.00	0.00
LTE Band 7 Ant 0	Front	0.301	0.231	0.221	0.160	0.160	0.197	0.029	0.53	0.68	0.66	0.49
	Back	0.360	0.278	0.221	0.245	0.245	0.241	0.087	0.64	0.83	0.85	0.69
	Left side	0.012	0.073	0.221	0.115	0.115	0.074	0.036	0.09	0.35	0.20	0.16
	Right side	0.041	0.068	0.221	0.083	0.083	0.064	0.032	0.11	0.35	0.19	0.16
	Bottom side	0.935							0.94	0.94	0.94	0.94
LTE Band 7 Ant 1	Front	0.286	0.231	0.221	0.160	0.160	0.197	0.029	0.52	0.67	0.64	0.48
	Back	0.389	0.278	0.221	0.245	0.245	0.241	0.087	0.67	0.86	0.88	0.72
	Left side	0.015	0.073	0.221	0.115	0.115	0.074	0.036	0.09	0.35	0.20	0.17
	Right side	0.069	0.068	0.221	0.083	0.083	0.064	0.032	0.14	0.37	0.22	0.18
	Top side	0.923	0.439	0.221	0.276	0.276	0.287	0.009	1.36	1.42	1.49	1.21
	Bottom side								0.00	0.00	0.00	0.00
LTE Band 12 Ant 0	Front	0.516	0.231	0.221	0.160	0.160	0.197	0.029	0.75	0.90	0.87	0.71
	Back	1.016	0.278	0.221	0.245	0.245	0.241	0.087	1.29	1.48	1.50	1.35
	Left side	0.214	0.073	0.221	0.115	0.115	0.074	0.036	0.29	0.55	0.40	0.37
	Right side	0.414	0.068	0.221	0.083	0.083	0.064	0.032	0.48	0.72	0.56	0.53
	Bottom side	0.643							0.64	0.64	0.64	0.64
LTE Band 12 Ant 1	Front	0.250	0.231	0.221	0.160	0.160	0.197	0.029	0.48	0.63	0.61	0.44
	Back	0.390	0.278	0.221	0.245	0.245	0.241	0.087	0.67	0.86	0.88	0.72
	Left side	0.126	0.073	0.221	0.115	0.115	0.074	0.036	0.20	0.46	0.32	0.28
	Right side	0.235	0.068	0.221	0.083	0.083	0.064	0.032	0.30	0.54	0.38	0.35
	Top side	0.514	0.439	0.221	0.276	0.276	0.287	0.009	0.95	1.01	1.08	0.80
	Bottom side								0.00	0.00	0.00	0.00
LTE Band 13 Ant 0	Front	0.492	0.231	0.221	0.160	0.160	0.197	0.029	0.72	0.87	0.85	0.68
	Back	0.859	0.278	0.221	0.245	0.245	0.241	0.087	1.14	1.33	1.35	1.19
	Left side	0.136	0.073	0.221	0.115	0.115	0.074	0.036	0.21	0.47	0.33	0.29
	Right side	0.240	0.068	0.221	0.083	0.083	0.064	0.032	0.31	0.54	0.39	0.36
	Bottom side	0.615							0.62	0.62	0.62	0.62
LTE Band 13 Ant 1	Front	0.495	0.231	0.221	0.160	0.160	0.197	0.029	0.73	0.88	0.85	0.68
	Back	0.545	0.278	0.221	0.245	0.245	0.241	0.087	0.82	1.01	1.03	0.88
	Left side	0.234	0.073	0.221	0.115	0.115	0.074	0.036	0.31	0.57	0.42	0.39
	Right side	0.433	0.068	0.221	0.083	0.083	0.064	0.032	0.50	0.74	0.58	0.55
	Top side	0.733	0.439	0.221	0.276	0.276	0.287	0.009	1.17	1.23	1.30	1.02
	Bottom side								0.00	0.00	0.00	0.00
LTE Band 66 Ant 0	Front	0.573	0.231	0.221	0.160	0.160	0.197	0.029	0.80	0.95	0.93	0.76
	Back	0.663	0.278	0.221	0.245	0.245	0.241	0.087	0.94	1.13	1.15	1.00
	Left side	0.027	0.073	0.221	0.115	0.115	0.074	0.036	0.10	0.36	0.22	0.18
	Right side	0.044	0.068	0.221	0.083	0.083	0.064	0.032	0.11	0.35	0.19	0.16
	Bottom side	0.931							0.93	0.93	0.93	0.93
LTE Band 66 Ant 1	Front	0.761	0.231	0.221	0.160	0.160	0.197	0.029	0.99	1.14	1.12	0.95
	Back	0.893	0.278	0.221	0.245	0.245	0.241	0.087	1.17	1.36	1.38	1.23
	Left side	0.022	0.073	0.221	0.115	0.115	0.074	0.036	0.10	0.36	0.21	0.17
	Right side	0.115	0.068	0.221	0.083	0.083	0.064	0.032	0.18	0.42	0.26	0.23
	Top side	0.943	0.439	0.221	0.276	0.276	0.287	0.009	1.38	1.44	1.51	1.23
	Bottom side								0.00	0.00	0.00	0.00
LTE Band	Front	0.071	0.231	0.221	0.160	0.160	0.197	0.029	0.30	0.45	0.43	0.26

Sporton International (Kunshan) Inc.

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48 Ant 2	Back	0.785	0.278	0.221	0.245	0.245	0.241	0.087	1.06	1.25	1.27	1.12
	Left side	0.257	0.073	0.221	0.115	0.115	0.074	0.036	0.33	0.59	0.45	0.41
	Right side	0.009	0.068	0.221	0.083	0.083	0.064	0.032	0.08	0.31	0.16	0.12
	Top side	0.036	0.439	0.221	0.276	0.276	0.287	0.009	0.48	0.53	0.60	0.32
	Bottom side								0.00	0.00	0.00	0.00

<5G NR Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2 Summed 1g SAR (W/kg)	1+3+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 WWAN+WLAN	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+6 WWAN+WLAN	WLAN5GHz Ant 5+6 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6				
		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)				
FR1 n2 Ant 0	Front	0.460	0.213	0.221	0.160	0.160	0.197	0.029	0.67	0.84	0.82	0.65
	Back	0.631	0.278	0.221	0.245	0.245	0.241	0.087	0.91	1.10	1.12	0.96
	Left side	0.029	0.073	0.221	0.115	0.115	0.074	0.036	0.10	0.37	0.22	0.18
	Right side	0.027	0.068	0.221	0.083	0.083	0.064	0.032	0.10	0.33	0.17	0.14
	Bottom side	0.936							0.94	0.94	0.94	0.94
FR1 n2 Ant 1	Front	0.477	0.231	0.221	0.160	0.160	0.197	0.029	0.71	0.86	0.83	0.67
	Back	0.734	0.278	0.221	0.245	0.245	0.241	0.087	1.01	1.20	1.22	1.07
	Left side	0.026	0.073	0.221	0.115	0.115	0.074	0.036	0.10	0.36	0.22	0.18
	Right side	0.068	0.068	0.221	0.083	0.083	0.064	0.032	0.14	0.37	0.22	0.18
	Top side	0.935	0.439	0.221	0.276	0.276	0.287	0.009	1.37	1.43	1.50	1.22
FR1 n5 Ant 0	Front	0.513	0.231	0.221	0.160	0.160	0.197	0.029	0.74	0.89	0.87	0.70
	Back	0.895	0.278	0.221	0.245	0.245	0.241	0.087	1.17	1.36	1.38	1.23
	Left side	0.103	0.073	0.221	0.115	0.115	0.074	0.036	0.18	0.44	0.29	0.25
	Right side	0.202	0.068	0.221	0.083	0.083	0.064	0.032	0.27	0.51	0.35	0.32
	Bottom side	0.437							0.44	0.44	0.44	0.44
FR1 n5 Ant 1	Front	0.566	0.231	0.221	0.160	0.160	0.197	0.029	0.80	0.95	0.92	0.76
	Back	0.718	0.278	0.221	0.245	0.245	0.241	0.087	1.00	1.18	1.20	1.05
	Left side	0.232	0.073	0.221	0.115	0.115	0.074	0.036	0.31	0.57	0.42	0.38
	Right side	0.549	0.068	0.221	0.083	0.083	0.064	0.032	0.62	0.85	0.70	0.66
	Top side	1.030	0.439	0.221	0.276	0.276	0.287	0.009	1.47	1.53	1.59	1.32
FR1 n66 Ant 0	Front	0.470	0.231	0.221	0.160	0.160	0.197	0.029	0.70	0.85	0.83	0.66
	Back	0.588	0.278	0.221	0.245	0.245	0.241	0.087	0.87	1.05	1.07	0.92
	Left side	0.034	0.073	0.221	0.115	0.115	0.074	0.036	0.11	0.37	0.22	0.19
	Right side	0.045	0.068	0.221	0.083	0.083	0.064	0.032	0.11	0.35	0.19	0.16
	Bottom side	0.919							0.92	0.92	0.92	0.92
FR1 n66 Ant 1	Front	0.577	0.231	0.221	0.160	0.160	0.197	0.029	0.81	0.96	0.93	0.77
	Back	0.698	0.278	0.221	0.245	0.245	0.241	0.087	0.98	1.16	1.18	1.03
	Left side	0.018	0.073	0.221	0.115	0.115	0.074	0.036	0.09	0.35	0.21	0.17
	Right side	0.136	0.068	0.221	0.083	0.083	0.064	0.032	0.20	0.44	0.28	0.25
	Top side	0.926	0.439	0.221	0.276	0.276	0.287	0.009	1.37	1.42	1.49	1.21
FR1 n77 Part270 Ant 2	Front	0.056	0.231	0.221	0.160	0.160	0.197	0.029	0.29	0.44	0.41	0.25
	Back	0.940	0.278	0.221	0.245	0.245	0.241	0.087	1.22	1.41	1.43	1.27
	Left side	0.286	0.073	0.221	0.115	0.115	0.074	0.036	0.36	0.62	0.48	0.44
	Right side	0.009	0.068	0.221	0.083	0.083	0.064	0.032	0.08	0.31	0.16	0.12
	Top side	0.047	0.439	0.221	0.276	0.276	0.287	0.009	0.49	0.54	0.61	0.33
FR1 n77 Part27Q Ant 2	Front	0.086	0.231	0.221	0.160	0.160	0.197	0.029	0.32	0.47	0.44	0.28
	Back	0.885	0.278	0.221	0.245	0.245	0.241	0.087	1.16	1.35	1.37	1.22
	Left side	0.292	0.073	0.221	0.115	0.115	0.074	0.036	0.37	0.63	0.48	0.44
	Right side	0.014	0.068	0.221	0.083	0.083	0.064	0.032	0.08	0.32	0.16	0.13
	Top side	0.105	0.439	0.221	0.276	0.276	0.287	0.009	0.54	0.60	0.67	0.39
FR1 n77 Part270 Ant 7	Front	0.032	0.231	0.221	0.160	0.160	0.197	0.029	0.26	0.41	0.39	0.22
	Back	0.697	0.278	0.221	0.245	0.245	0.241	0.087	0.98	1.16	1.18	1.03
	Left side	0.068	0.073	0.221	0.115	0.115	0.074	0.036	0.14	0.40	0.26	0.22
	Right side	0.020	0.068	0.221	0.083	0.083	0.064	0.032	0.09	0.32	0.17	0.14
	Top side	0.242	0.439	0.221	0.276	0.276	0.287	0.009	0.68	0.74	0.81	0.53

Sporton International (Kunshan) Inc.

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FR1 n77 Part27Q Ant 7	Front	0.044	0.231	0.221	0.160	0.160	0.197	0.029	0.28	0.43	0.40	0.23
	Back	0.935	0.278	0.221	0.245	0.245	0.241	0.087	1.21	1.40	1.42	1.27
	Left side	0.047	0.073	0.221	0.115	0.115	0.074	0.036	0.12	0.38	0.24	0.20
	Right side	0.055	0.068	0.221	0.083	0.083	0.064	0.032	0.12	0.36	0.20	0.17
	Top side	0.250	0.439	0.221	0.276	0.276	0.287	0.009	0.69	0.75	0.81	0.54

<SRS Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	1+2 Summed 1g SAR (W/kg)	1+3+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 WWAN+WLAN	WLAN2.4GHz Ant 4+6 WWAN+DBS	WLAN5GHz Ant 5+6 WWAN+WLAN	WLAN5GHz Ant 5+6 WWAN+DBS	Bluetooth Ant 4	Bluetooth Ant 6				
		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)				
FR1 n77 Part27Q Ant 3	Front	0.095	0.213	0.221	0.160	0.160	0.197	0.029	0.31	0.48	0.45	0.28
	Back	0.107	0.278	0.221	0.245	0.245	0.241	0.087	0.39	0.57	0.59	0.44
	Left side	0.141	0.073	0.221	0.115	0.115	0.074	0.036	0.21	0.48	0.33	0.29
	Right side	0.006	0.068	0.221	0.083	0.083	0.064	0.032	0.07	0.31	0.15	0.12
	Bottom side	0.083							0.08	0.08	0.08	0.08
FR1 n77 Part27Q Ant 3	Front	0.114	0.213	0.221	0.160	0.160	0.197	0.029	0.33	0.50	0.47	0.30
	Back	0.133	0.278	0.221	0.245	0.245	0.241	0.087	0.41	0.60	0.62	0.47
	Left side	0.152	0.073	0.221	0.115	0.115	0.074	0.036	0.23	0.49	0.34	0.30
	Right side	0.005	0.068	0.221	0.083	0.083	0.064	0.032	0.07	0.31	0.15	0.12
	Bottom side	0.006							0.01	0.01	0.01	0.01
FR1 n77 Part27Q Ant 8	Front	0.023	0.213	0.221	0.160	0.160	0.197	0.029	0.24	0.40	0.38	0.21
	Back	0.146	0.278	0.221	0.245	0.245	0.241	0.087	0.42	0.61	0.63	0.48
	Left side	0.006	0.073	0.221	0.115	0.115	0.074	0.036	0.08	0.34	0.20	0.16
	Right side	0.010	0.068	0.221	0.083	0.083	0.064	0.032	0.08	0.31	0.16	0.13
	Bottom side	0.053							0.05	0.05	0.05	0.05
FR1 n77 Part27Q Ant 8	Front	0.016	0.213	0.221	0.160	0.160	0.197	0.029	0.23	0.40	0.37	0.21
	Back	0.146	0.278	0.221	0.245	0.245	0.241	0.087	0.42	0.61	0.63	0.48
	Left side	0.007	0.073	0.221	0.115	0.115	0.074	0.036	0.08	0.34	0.20	0.16
	Right side	0.009	0.068	0.221	0.083	0.083	0.064	0.032	0.08	0.31	0.16	0.12
	Bottom side	0.003							0.00	0.00	0.00	0.00



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN	WLAN 2.4GHz Ant 4+6 WWAN+ DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN+ WLAN	WLAN 5GHz Ant 5+6 WWAN+ DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E Ant 5+6								
GSM850 Ant 0	Front	0.638	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.15	1.17	1.00	1.16	1.01	1.00	0.84
	Back	1.012	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.52	1.54	1.50	1.54	1.38	1.49	1.34
GSM850 Ant 1	Front	0.629	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.14	1.16	0.99	1.16	1.00	0.99	0.83
	Back	0.794	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.30	1.32	1.28	1.32	1.17	1.27	1.12
GSM1900 Ant 0	Front	0.504	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.01	1.03	0.87	1.03	0.88	0.86	0.71
	Back	0.555	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.06	1.08	1.04	1.08	0.93	1.04	0.88
WCDMA II Ant 0	Front	0.407	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.92	0.94	0.77	0.93	0.78	0.77	0.61
	Back	0.465	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	0.97	0.99	0.95	0.99	0.84	0.95	0.79
WCDMA V Ant 0	Front	0.472	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.98	1.00	0.83	1.00	0.84	0.83	0.68
	Back	0.782	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.29	1.31	1.27	1.31	1.15	1.26	1.11
WCDMA V Ant 1	Front	0.472	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.98	1.00	0.83	1.00	0.84	0.83	0.68
	Back	0.645	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.15	1.17	1.13	1.17	1.02	1.13	0.97
LTE Band 2 Ant 0	Front	0.443	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.95	0.97	0.81	0.97	0.82	0.80	0.65
	Back	0.482	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	0.99	1.01	0.97	1.01	0.85	0.96	0.81
LTE Band 2 Ant 1	Front	0.475	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.98	1.00	0.84	1.00	0.85	0.83	0.68
	Back	0.664	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.17	1.19	1.15	1.19	1.04	1.14	0.99
LTE Band 5 Ant 0	Front	0.632	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.14	1.16	0.99	1.16	1.00	0.99	0.84
	Back	0.844	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.35	1.37	1.33	1.37	1.22	1.32	1.17
LTE Band 5 Ant 1	Front	0.533	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.04	1.06	0.90	1.06	0.91	0.89	0.74
	Back	0.677	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.19	1.21	1.16	1.20	1.05	1.16	1.00
LTE Band 7 Ant 0	Front	0.315	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.82	0.84	0.68	0.84	0.69	0.67	0.52
	Back	0.377	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	0.89	0.91	0.86	0.90	0.75	0.86	0.70
LTE Band 7 Ant 1	Front	0.286	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.80	0.82	0.65	0.81	0.66	0.65	0.49
	Back	0.414	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	0.92	0.94	0.90	0.94	0.79	0.89	0.74
LTE Band 12 Ant 0	Front	0.516	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.03	1.05	0.88	1.04	0.89	0.88	0.72
	Back	1.016	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.53	1.55	1.50	1.54	1.39	1.50	1.34
LTE Band 12 Ant 1	Front	0.366	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.88	0.90	0.73	0.89	0.74	0.73	0.57
	Back	0.390	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	0.90	0.92	0.87	0.92	0.76	0.87	0.72
LTE Band 13 Ant 0	Front	0.492	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.00	1.02	0.85	1.02	0.86	0.85	0.70
	Back	0.859	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.37	1.39	1.34	1.39	1.23	1.34	1.19
LTE Band 13 Ant 1	Front	0.489	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.00	1.02	0.85	1.02	0.86	0.85	0.69
	Back	0.502	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.01	1.03	0.99	1.03	0.87	0.98	0.83
LTE Band 66 Ant 0	Front	0.573	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.08	1.10	0.94	1.10	0.95	0.93	0.78
	Back	0.663	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.17	1.19	1.15	1.19	1.04	1.14	0.99
LTE Band 66 Ant 1	Front	0.812	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.32	1.34	1.17	1.34	1.18	1.17	1.02
	Back	0.854	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.36	1.38	1.34	1.38	1.23	1.33	1.18
LTE Band 48 Ant 2	Front	0.071	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.58	0.60	0.43	0.60	0.44	0.43	0.28
	Back	0.785	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.29	1.31	1.27	1.31	1.16	1.27	1.11



<5G NR Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN	WLAN 2.4GHz Ant 4+6 WWAN+ DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN+ WLAN	WLAN 5GHz Ant 5+6 WWAN+ DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E Ant 5+6								
		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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
FR1 n2 Ant 0	Front	0.451	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.96	0.98	0.81	0.98	0.82	0.81	0.66
	Back	0.569	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.08	1.10	1.05	1.10	0.94	1.05	0.90
FR1 n2 Ant 1	Front	0.477	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.99	1.01	0.84	1.00	0.85	0.84	0.68
	Back	0.777	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.29	1.31	1.26	1.30	1.15	1.26	1.10
FR1 n5 Ant 0	Front	0.512	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.02	1.04	0.87	1.04	0.88	0.87	0.72
	Back	0.895	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.40	1.42	1.38	1.42	1.27	1.38	1.22
FR1 n5 Ant 1	Front	0.566	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.08	1.10	0.93	1.09	0.94	0.93	0.77
	Back	0.718	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.23	1.25	1.20	1.24	1.09	1.20	1.04
FR1 n66 Ant 0	Front	0.458	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.97	0.99	0.82	0.98	0.83	0.82	0.66
	Back	0.514	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.02	1.04	1.00	1.04	0.89	0.99	0.84
FR1 n66 Ant 1	Front	0.518	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	1.03	1.05	0.88	1.04	0.89	0.88	0.72
	Back	0.606	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.12	1.14	1.09	1.13	0.98	1.09	0.93
FR1 n77 Part 270 Ant 2	Front	0.056	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.57	0.59	0.42	0.58	0.43	0.42	0.26
	Back	0.940	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.45	1.47	1.42	1.47	1.31	1.42	1.27
FR1 n77 Part 270 Ant 7	Front	0.086	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.60	0.62	0.45	0.61	0.46	0.45	0.29
	Back	0.885	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.39	1.41	1.37	1.41	1.26	1.37	1.21
FR1 n77 Part 27Q Ant 2	Front	0.032	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.54	0.56	0.39	0.56	0.40	0.39	0.24
	Back	0.697	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.21	1.23	1.18	1.22	1.07	1.18	1.02
FR1 n77 Part 27Q Ant 7	Front	0.044	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.118	1.39	0.55	0.57	0.41	0.57	0.42	0.40	0.25
	Back	0.935	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.239	1.39	1.44	1.46	1.42	1.46	1.31	1.42	1.26

<SRS Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	2+5 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4+7 Summed 1g SAR (W/kg)	1+4+10 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+6+9 Summed 1g SAR (W/kg)	1+8+10 Summed 1g SAR (W/kg)	1+9+10 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 4+6 DBS Only	WLAN 2.4GHz Ant 4+6 WWAN+ WLAN	WLAN 2.4GHz Ant 4+6 WWAN+ DBS	WLAN 5GHz Ant 5+6 DBS Only	WLAN 5GHz Ant 5+6 WWAN+ WLAN	WLAN 5GHz Ant 5+6 WWAN+ DBS	Bluetooth Ant 4	Bluetooth Ant 6	WIFI 6E Ant 5+6								
		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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
FR1 n77 Part 270 Ant 3	Front	0.095	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.60	0.62	0.63	0.62	0.47	0.63	0.48
	Back	0.107	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.62	0.64	0.65	0.63	0.48	0.64	0.49
FR1 n77 Part 270 Ant 8	Front	0.058	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.57	0.59	0.60	0.58	0.43	0.59	0.44
	Back	0.366	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.88	0.90	0.90	0.89	0.74	0.90	0.75
FR1 n77 Part 27Q Ant 3	Front	0.095	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.60	0.62	0.63	0.62	0.47	0.63	0.48
	Back	0.139	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.65	0.67	0.68	0.67	0.51	0.67	0.52
FR1 n77 Part 27Q Ant 8	Front	0.045	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.55	0.57	0.58	0.57	0.42	0.58	0.43
	Back	0.450	0.663	0.509	0.244	0.728	0.285	0.285	0.241	0.087	0.294	1.39	0.96	0.98	0.99	0.98	0.82	0.99	0.83

<Sensor off>

WWAN Band	Exposure Position	1	2	3	1+2+3 Summed 1g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 4+6 DBS Only	WLAN5GHz Ant 5+6 DBS Only	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
WWAN All Bands	Front	0.685	0.141	0.168	0.990
	Back	0.592	0.163	0.374	1.130



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	2	4	1+2 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)
		WWAN	WLAN5GHz Ant 5+6 WWAN+WLAN&WWAN+DBS	WIFI 6E		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
GSM850 Ant 1	Front		0.640	0.177	0.64	0.18
	Back		0.640	0.350	0.64	0.35
	Left side		0.640	0.098	0.64	0.10
	Right side		0.640	0.080	0.64	0.08
	Top side	1.505	0.640	0.349	2.15	1.85
	Bottom side				0.00	0.00
GSM1900 Ant 0	Front	2.914	0.640	0.177	3.55	3.09
	Back	2.914	0.640	0.350	3.55	3.26
	Left side	2.914	0.640	0.098	3.55	3.01
	Right side	2.914	0.640	0.080	3.55	2.99
	Top side	2.914	0.640	0.349	3.55	3.26
	Bottom side	2.914			2.91	2.91
WCDMA II Ant 0	Front	2.013	0.640	0.177	2.65	2.19
	Back	2.013	0.640	0.350	2.65	2.36
	Left side	2.013	0.640	0.098	2.65	2.11
	Right side	2.013	0.640	0.080	2.65	2.09
	Top side	2.013	0.640	0.349	2.65	2.36
	Bottom side	2.013			2.01	2.01
WCDMA V Ant 0	Front		0.640	0.177	0.64	0.18
	Back	1.240	0.640	0.350	1.88	1.59
	Left side		0.640	0.098	0.64	0.10
	Right side		0.640	0.080	0.64	0.08
	Top side		0.640	0.349	0.64	0.35
	Bottom side				0.00	0.00
LTE Band 2 Ant 0	Front	2.190	0.640	0.177	2.83	2.37
	Back	2.190	0.640	0.350	2.83	2.54
	Left side	2.190	0.640	0.098	2.83	2.29
	Right side	2.190	0.640	0.080	2.83	2.27
	Top side	2.190	0.640	0.349	2.83	2.54
	Bottom side	2.190			2.19	2.19
LTE Band 2 Ant 1	Front	2.575	0.640	0.177	3.22	2.75
	Back	2.575	0.640	0.350	3.22	2.93
	Left side	2.575	0.640	0.098	3.22	2.67
	Right side	2.575	0.640	0.080	3.22	2.66
	Top side	2.575	0.640	0.349	3.22	2.92
	Bottom side	2.575			2.58	2.58
LTE Band 7 Ant 0	Front	2.336	0.640	0.177	2.98	2.51
	Back	2.336	0.640	0.350	2.98	2.69
	Left side	2.336	0.640	0.098	2.98	2.43
	Right side	2.336	0.640	0.080	2.98	2.42
	Top side	2.336	0.640	0.349	2.98	2.69
	Bottom side	2.336			2.34	2.34
LTE Band 7 Ant 1	Front	2.342	0.640	0.177	2.98	2.52
	Back	2.342	0.640	0.350	2.98	2.69
	Left side	2.342	0.640	0.098	2.98	2.44
	Right side	2.342	0.640	0.080	2.98	2.42
	Top side	2.342	0.640	0.349	2.98	2.69
	Bottom side	2.342			2.34	2.34



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LTE Band 66 Ant 0	Front	2.238	0.640	0.177	2.88	2.42
	Back	2.238	0.640	0.350	2.88	2.59
	Left side	2.238	0.640	0.098	2.88	2.34
	Right side	2.238	0.640	0.080	2.88	2.32
	Top side	2.238	0.640	0.349	2.88	2.59
	Bottom side	2.238			2.24	2.24
LTE Band 66 Ant 1	Front	2.357	0.640	0.177	3.00	2.53
	Back	2.357	0.640	0.350	3.00	2.71
	Left side	2.357	0.640	0.098	3.00	2.46
	Right side	2.357	0.640	0.080	3.00	2.44
	Top side	2.357	0.640	0.349	3.00	2.71
	Bottom side	2.357			2.36	2.36
LTE Band 48 Ant 2	Front	2.149	0.640	0.177	2.79	2.33
	Back	2.149	0.640	0.350	2.79	2.50
	Left side	2.149	0.640	0.098	2.79	2.25
	Right side	2.149	0.247	0.080	2.40	2.23
	Top side	2.149	1.736	0.349	3.89	2.50
	Bottom side	2.149			2.15	2.15



<5G NR Mode>

WWAN Band	Exposure Position	1	2	4	1+2 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)
		WWAN	WLAN5GHz Ant 5+6 WWAN+WLAN+WWAN+DBS	WIFI 6E		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
FR1 n2 Ant 0	Front	2.332	0.640	0.177	2.97	2.51
	Back	2.332	0.640	0.350	2.97	2.68
	Left side	2.332	0.640	0.098	2.97	2.43
	Right side	2.332	0.640	0.080	2.97	2.41
	Top side	2.332	0.640	0.349	2.97	2.68
	Bottom side	2.332			2.33	2.33
FR1 n2 Ant 1	Front	2.128	0.640	0.177	2.77	2.31
	Back	2.128	0.640	0.350	2.77	2.48
	Left side	2.128	0.640	0.098	2.77	2.23
	Right side	2.128	0.640	0.080	2.77	2.21
	Top side	2.128	0.640	0.349	2.77	2.48
	Bottom side	2.128			2.13	2.13
FR1 n66 Ant 0	Front	2.229	0.640	0.177	2.87	2.41
	Back	2.229	0.640	0.350	2.87	2.58
	Left side	2.229	0.640	0.098	2.87	2.33
	Right side	2.229	0.640	0.080	2.87	2.31
	Top side	2.229	0.640	0.349	2.87	2.58
	Bottom side	2.229			2.23	2.23
FR1 n66 Ant 1	Front	2.184	0.640	0.177	2.82	2.36
	Back	2.184	0.640	0.350	2.82	2.53
	Left side	2.184	0.640	0.098	2.82	2.28
	Right side	2.184	0.640	0.080	2.82	2.26
	Top side	2.184	0.640	0.349	2.82	2.53
	Bottom side	2.184			2.18	2.18
LTE Band 5 Ant 0	Front	2.184	0.640	0.177	2.82	2.36
	Back	2.184	0.640	0.350	2.82	2.53
	Left side	2.184	0.640	0.098	2.82	2.28
	Right side	2.184	0.640	0.080	2.82	2.26
	Top side	2.184	0.640	0.349	2.82	2.53
	Bottom side	2.184			2.18	2.18
LTE Band 5 Ant 1	Front	2.184	0.640	0.177	2.82	2.36
	Back	2.184	0.640	0.350	2.82	2.53
	Left side	2.184	0.640	0.098	2.82	2.28
	Right side	2.184	0.640	0.080	2.82	2.26
	Top side	2.184	0.640	0.349	2.82	2.53
	Bottom side	2.184			2.18	2.18
FR1 n77 Part27O Ant 2	Front	1.783	0.640	0.177	2.42	1.96
	Back	1.783	0.640	0.350	2.42	2.13
	Left side	1.783	0.640	0.098	2.42	1.88
	Right side	1.783	0.640	0.080	2.42	1.86
	Top side	1.783	0.640	0.349	2.42	2.13
	Bottom side				0.00	0.00
FR1 n77 Part27Q Ant 2	Front	2.126	0.640	0.177	2.77	2.30
	Back	2.126	0.640	0.350	2.77	2.48
	Left side	2.126	0.640	0.098	2.77	2.22
	Right side	2.126	0.640	0.080	2.77	2.21
	Top side	2.126	0.640	0.349	2.77	2.48
	Bottom side				0.00	0.00
FR1 n77 Part27O Ant 7	Front	1.203	0.640	0.177	1.84	1.38
	Back	1.203	0.640	0.350	1.84	1.55
	Left side	1.203	0.640	0.098	1.84	1.30



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	Right side	1.203	0.640	0.080	1.84	1.28
	Top side	1.203	0.640	0.349	1.84	1.55
	Bottom side				0.00	0.00
FR1 n77 Part27Q Ant 7	Front	2.189	0.640	0.177	2.83	2.37
	Back	2.189	0.640	0.350	2.83	2.54
	Left side	2.189	0.640	0.098	2.83	2.29
	Right side	2.189	0.640	0.080	2.83	2.27
	Top side	2.189	0.640	0.349	2.83	2.54
	Bottom side				0.00	0.00

18. Supplemental tuner tests results

General Note:

1. This device impedance tuner (166 status) antenna tuning techniques in the WCDMA II/V, LTE Band 2/4/5/7/12/13/66, 5GNR n2/n5/n66 for ANT0.
2. This device impedance tuner (187 status) antenna tuning techniques in the WCDMA V, LTE Band 2/4/5/7/12/13/66, 5GNR n2/n5/n66 for ANT1.
3. LTE B4 SAR test was covered by LTE B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
4. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
5. The following test procedure was followed to demonstrate that the SAR results in this report represent 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.
6. To evaluate all of the tuner states, the 166 tuner states for ANT0 and the 187 tuner states for ANT1 are 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.
7. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
8. 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).

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

Test Engineer : Bruce Li, Martin Li, Ricky Gu



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 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [11] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [12] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [13] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

-----THE END-----



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3 - SN:1087

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 43.396$; $\rho = 1000 \text{ kg/m}^3$

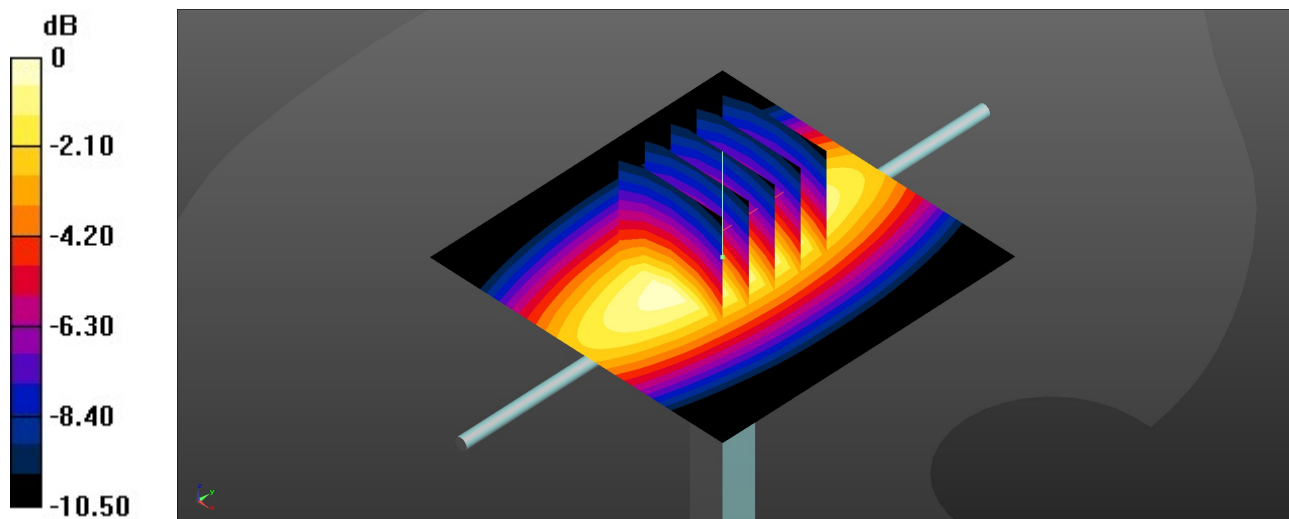
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(10.47, 10.47, 10.47); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.562 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 25.78 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.634 W/kg
SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.274 W/kg
Maximum value of SAR (measured) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg

System Check_Head_835MHz

DUT: D835V2 - SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 40.921$; $\rho = 1000 \text{ kg/m}^3$

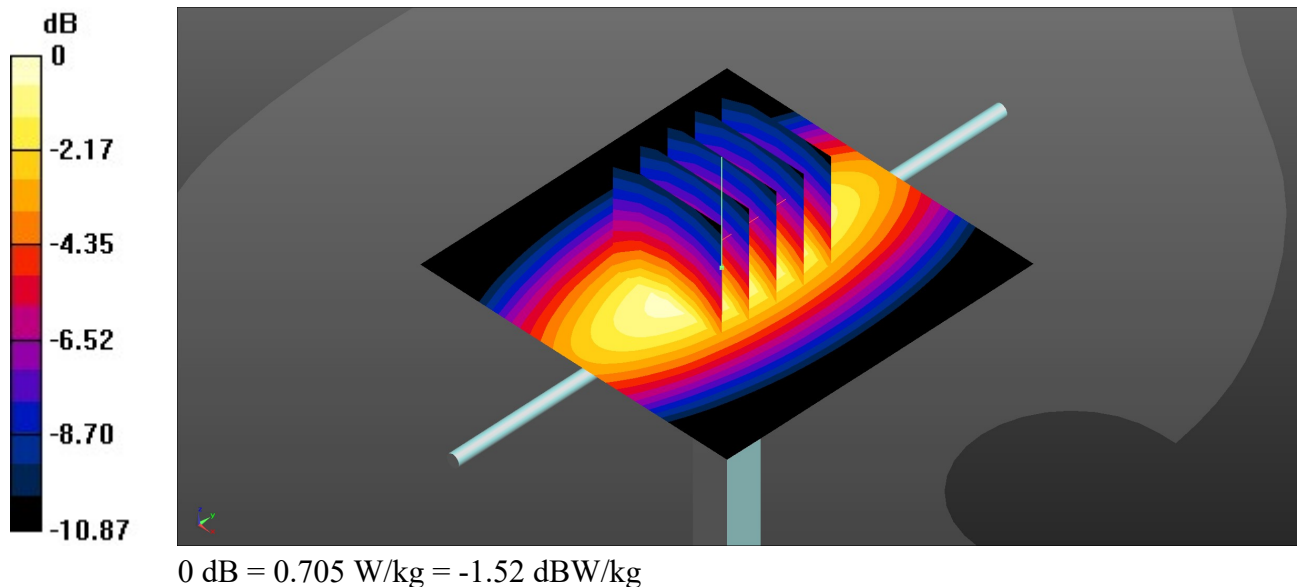
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(10.21, 10.21, 10.21); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.715 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 29.25 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.807 W/kg
SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.328 W/kg
Maximum value of SAR (measured) = 0.705 W/kg



System Check_Head_1750MHz**DUT: D1750V2 - SN:1090**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 40.51$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(8.73, 8.73, 8.73); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

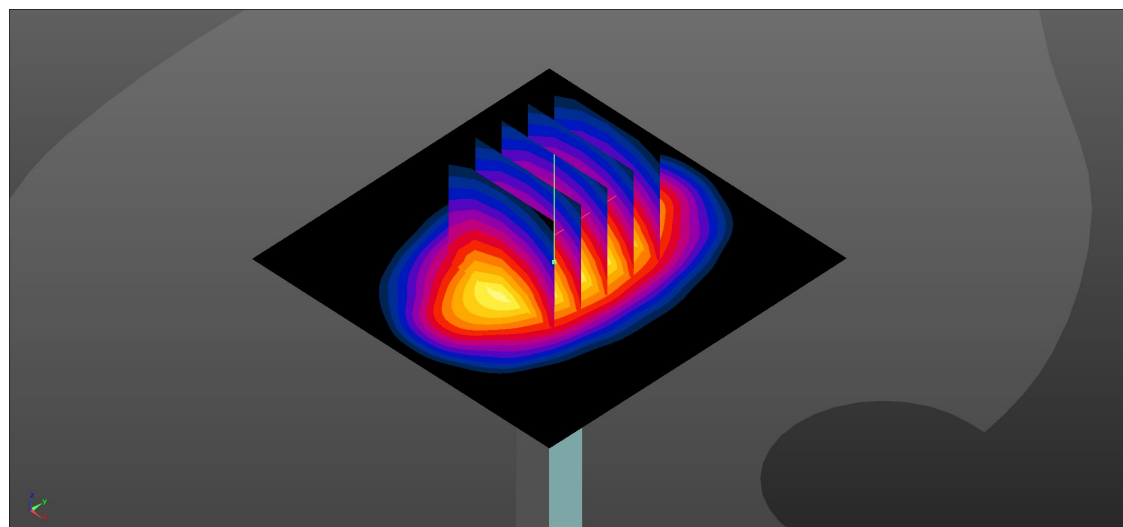
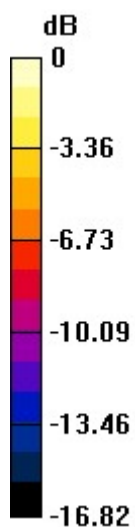
Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.96 W/kg**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.50 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 1.91 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 dBW/kg

System Check_Head_1900MHz**DUT: D1900V2 - SN:5d170**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 39.228$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(8.46, 8.46, 8.46); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.14 W/kg

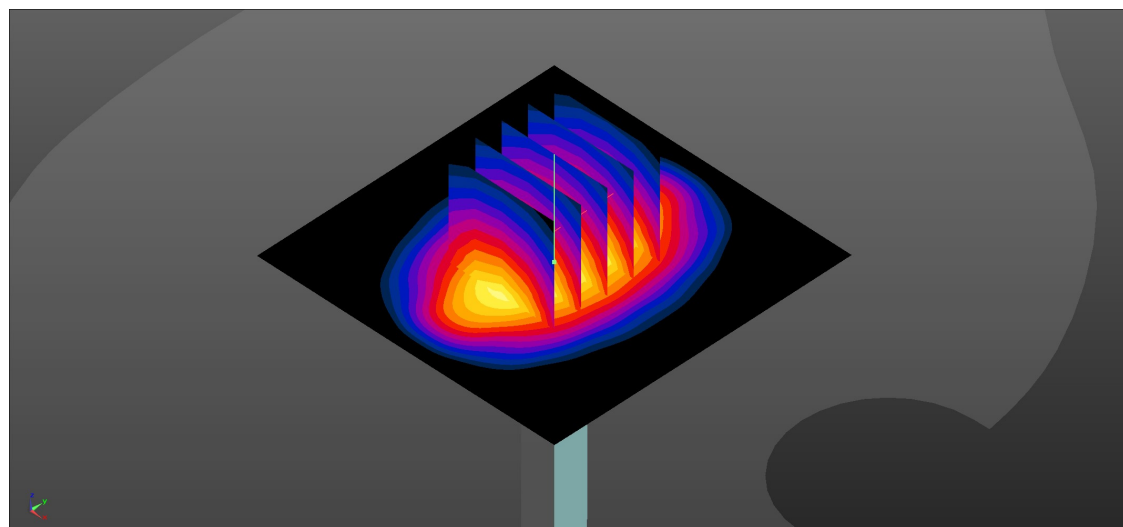
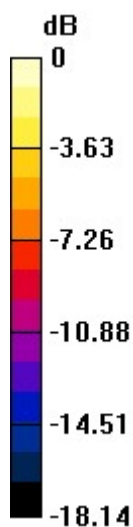
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.92 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 3.14 W/kg



0 dB = 3.14 W/kg = 4.97 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - SN:908

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 40.818$; $\rho = 1000$ kg/m³

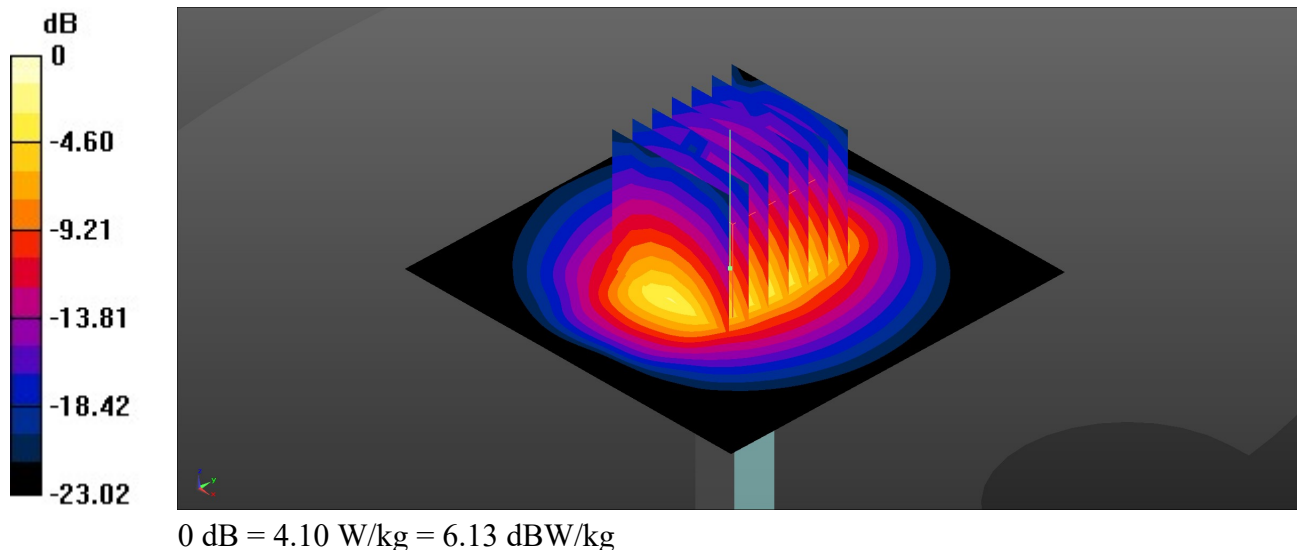
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(8, 8, 8); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 4.11 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 48.85 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 5.00 W/kg
SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.10 W/kg



System Check_Head_2600MHz**DUT: D2600V2-SN:1061**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.013$ S/m; $\epsilon_r = 40.642$; $\rho = 1000$ kg/m³

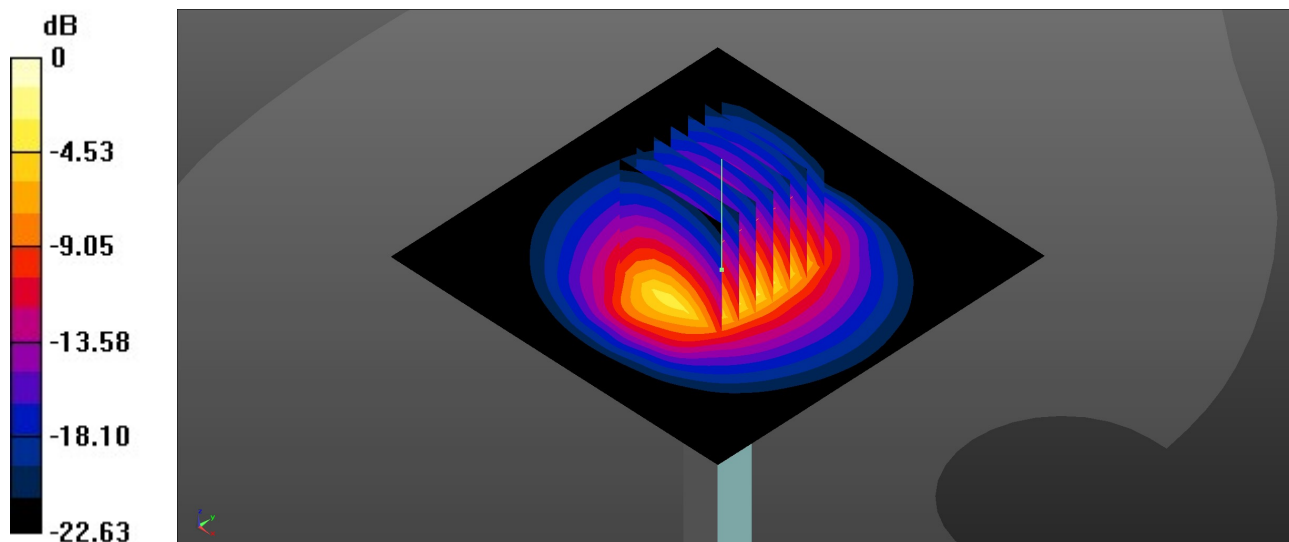
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(7.71, 7.71, 7.71); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.29 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.61 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 5.54 W/kg
SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.44 W/kg



0 dB = 4.44 W/kg = 6.47 dBW/kg

System Check_Head_3500MHz**DUT: D3500V2 - SN:1037**

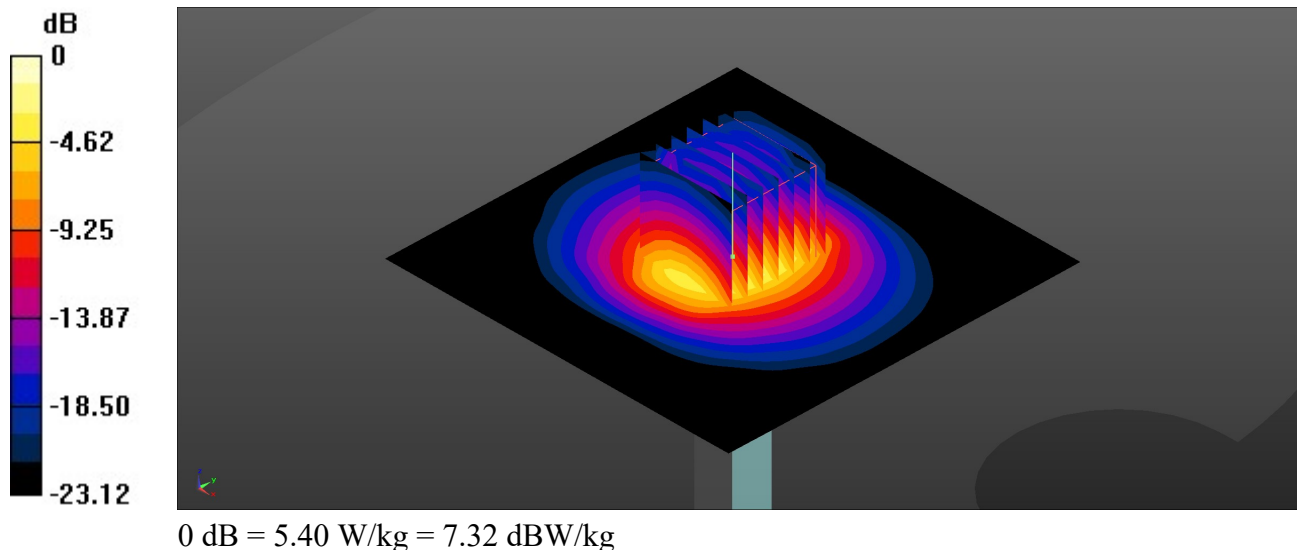
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL_3500 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.807$ S/m; $\epsilon_r = 38.989$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(7.16, 7.16, 7.16); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.36 W/kg**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 45.72 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 7.24 W/kg
SAR(1 g) = 3.21 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 5.40 W/kg

System Check_Head_3700MHz**DUT: D3700V2 - SN:1008**

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: HSL_3700 Medium parameters used: $f = 3700$ MHz; $\sigma = 2.993$ S/m; $\epsilon_r = 38.672$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7627; ConvF(7.01, 7.01, 7.01); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1649; Calibrated: 2021.2.3
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2024
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 5.44 W/kg

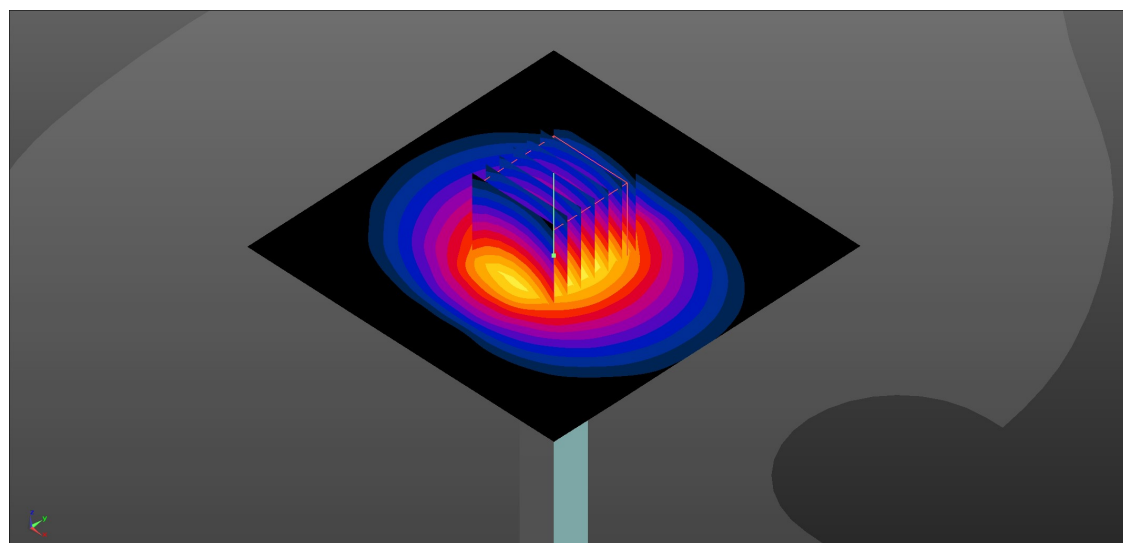
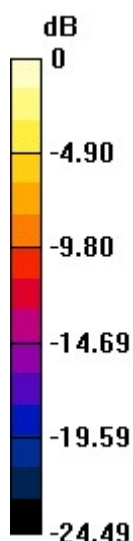
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 34.34 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 8.39 W/kg

SAR(1 g) = 3.17 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (measured) = 6.24 W/kg



0 dB = 6.24 W/kg = 7.95 dBW/kg

System Check_Head_3900MHz

DUT: D3900V2 - SN:1048

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1

Medium: HSL_3900 Medium parameters used: $f = 3900$ MHz; $\sigma = 3.192$ S/m; $\epsilon_r = 38.388$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(6.99, 6.99, 6.99); Calibrated: 2021.4.29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021.9.21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1644
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.62 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 43.48 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 7.92 W/kg
SAR(1 g) = 3.26 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 5.61 W/kg

