



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI 7	55830	3609	17.06	18.60	1.426	62.9	1.006	-0.01	0.432	0.620
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI 7	55340	3560	17.01	18.60	1.442	62.9	1.006	-0.11	0.403	0.585
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI 7	56150	3641	17.04	18.60	1.432	62.9	1.006	0.14	0.418	0.602
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI 7	56640	3690	16.98	18.60	1.452	62.9	1.006	0.03	0.424	0.619
	LTE Band 48	20M	QPSK	100	0	-	Left Side	5mm	Ant 7	DSI 7	55830	3609	17.05	18.60	1.429	62.9	1.006	0.1	0.416	0.598
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI 7	55830	3609	17.15	18.60	1.396	62.9	1.006	0.16	0.039	0.055
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 7	DSI 7	55830	3609	17.06	18.60	1.426	62.9	1.006	-0.06	0.027	0.039
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 7	656000	3840	14.62	15.40	1.197	-	-	-0.08	0.103	0.123
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI 7	656000	3840	14.58	15.40	1.208	-	-	0.13	0.123	0.149
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 7	656000	3840	14.62	15.40	1.197	-	-	0.12	0.305	0.365
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI 7	656000	3840	14.58	15.40	1.208	-	-	0.16	0.310	0.374
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 7	656000	3840	14.62	15.40	1.197	-	-	-0.1	0.426	0.510
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 7	656000	3840	14.58	15.40	1.208	-	-	-0.17	0.521	0.629
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 7	656000	3840	14.62	15.40	1.197	-	-	0.03	0.010	0.012
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI 7	656000	3840	14.58	15.40	1.208	-	-	-0.15	0.008	0.010
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 7	656000	3840	14.62	15.40	1.197	-	-	-0.15	0.043	0.051
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI 7	656000	3840	14.58	15.40	1.208	-	-	0.11	0.041	0.050
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 7	DSI 7	656000	3840	14.62	15.40	1.197	-	-	-0.08	0.029	0.035
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 7	DSI 7	656000	3840	14.58	15.40	1.208	-	-	-0.17	0.033	0.040
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI 7	656000	3840	17.63	18.40	1.194	50	1.000	-0.01	0.488	0.583
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI 7	656000	3840	16.48	17.50	1.265	-	-	-0.08	0.067	0.085
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI 7	656000	3840	16.44	17.50	1.276	-	-	-0.17	0.105	0.134
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI 7	656000	3840	16.48	17.50	1.265	-	-	-0.08	0.362	0.458
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI 7	656000	3840	16.44	17.50	1.276	-	-	0.08	0.482	0.615
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI 7	656000	3840	16.48	17.50	1.265	-	-	-0.08	0.006	0.008
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI 7	656000	3840	16.44	17.50	1.276	-	-	0.17	0.004	0.005
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI 7	656000	3840	16.48	17.50	1.265	-	-	0.18	0.065	0.082
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI 7	656000	3840	16.44	17.50	1.276	-	-	-0.04	0.098	0.125
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI 7	656000	3840	16.48	17.50	1.265	-	-	-0.08	0.202	0.255
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI 7	656000	3840	16.44	17.50	1.276	-	-	-0.13	0.206	0.263
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 4	DSI 7	656000	3840	16.48	17.50	1.265	-	-	-0.13	0.020	0.025
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 4	DSI 7	656000	3840	16.44	17.50	1.276	-	-	0.06	0.024	0.031
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI 7	656000	3840	19.42	20.50	1.282	50	1.000	-0.01	0.468	0.600
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	0.02	0.409	0.521
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI 7	656000	3840	20.21	21.30	1.285	-	-	-0.03	0.388	0.499
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	0.03	0.485	0.618
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI 7	656000	3840	20.21	21.30	1.285	-	-	-0.1	0.466	0.599
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	0.05	0.077	0.098
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI 7	656000	3840	20.21	21.30	1.285	-	-	0.01	0.056	0.072
45	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	0.03	1.000	1.274
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 7	656000	3840	20.21	21.30	1.285	-	-	0.07	0.909	1.168
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 7	656000	3840	20.15	21.30	1.303	-	-	0.15	0.969	1.263
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	-0.05	0.006	0.008
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI 7	656000	3840	20.21	21.30	1.285	-	-	-0.08	0.004	0.005
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	-0.08	0.377	0.480
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 8	DSI 7	656000	3840	20.21	21.30	1.285	-	-	-0.13	0.348	0.447
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 7	656000	3840	23.31	24.30	1.256	50	1.000	0.01	0.984	1.236
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	DSI 7	656000	3840	11.95	13.50	1.429	-	-	-0.01	0.065	0.093
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	DSI 7	656000	3840	11.93	13.50	1.435	-	-	-0.12	0.060	0.086
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	DSI 7	656000	3840	11.95	13.50	1.429	-	-	0.07	0.368	0.526
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	DSI 7	656000	3840	11.93	13.50	1.435	-	-	0.09	0.346	0.497
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 5	DSI 7	656000	3840	11.95	13.50	1.429	-	-	0.11	0.005	0.007
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 5	DSI 7	656000	3840	11.93	13.50	1.435	-	-	-0.13	0.003	0.004
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	DSI 7	656000	3840	11.95	13.50	1.429	-	-	0.04	0.440	0.629
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 5	DSI 7	656000	3840	11.93	13.50	1.435	-	-	0.12	0.423	0.607



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FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 5	DSI 7	656000	3840	11.95	13.50	1.429	-	-	0.17	0.066	0.094
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 5	DSI 7	656000	3840	11.93	13.50	1.435	-	-	-0.16	0.061	0.088
FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 5	DSI 7	656000	3840	11.95	13.50	1.429	-	-	-0.17	0.010	0.014
FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 5	DSI 7	656000	3840	11.93	13.50	1.435	-	-	0.11	0.015	0.022
FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	DSI 7	656000	3840	14.98	16.50	1.419	50	1.000	0.02	0.429	0.609

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/BT																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6+3(3)	Hotspot	1	2412	14.09	16.00	1.552	100	1.000	-0.03	0.194	0.301
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(3)	Hotspot	1	2412	14.09	16.00	1.552	100	1.000	0.07	0.274	0.425
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 6+3(3)	Hotspot	1	2412	14.09	16.00	1.552	100	1.000	-0.01	0.032	0.050
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6+3(3)	Hotspot	1	2412	14.09	16.00	1.552	100	1.000	-0.06	0.084	0.130
46	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 6+3(3)	Hotspot	1	2412	14.09	16.00	1.552	100	1.000	-0.03	0.387	0.601
	Bluetooth	1Mbps	Front	5mm	Ant 6	Hotspot	78	2480	12.62	13.50	1.225	76.94	1.083	-0.08	0.065	0.086
	Bluetooth	1Mbps	Back	5mm	Ant 6	Hotspot	78	2480	12.62	13.50	1.225	76.94	1.083	0.05	0.120	0.159
	Bluetooth	1Mbps	Left Side	5mm	Ant 6	Hotspot	78	2480	12.62	13.50	1.225	76.94	1.083	0.06	0.010	0.013
47	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Hotspot	78	2480	12.62	13.50	1.225	76.94	1.083	-0.09	0.215	0.285
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Hotspot	78	2480	12.62	13.50	1.225	76.94	1.083	-0.08	0.020	0.027
	Bluetooth	1Mbps	Front	5mm	Ant 3	Hotspot	0	2402	12.76	13.50	1.186	76.61	1.087	0.01	0.152	0.196
	Bluetooth	1Mbps	Back	5mm	Ant 3	Hotspot	0	2402	12.76	13.50	1.186	76.61	1.087	0.1	0.163	0.210
	Bluetooth	1Mbps	Left Side	5mm	Ant 3	Hotspot	0	2402	12.76	13.50	1.186	76.61	1.087	-0.17	0.022	0.028
	Bluetooth	1Mbps	Right Side	5mm	Ant 3	Hotspot	0	2402	12.76	13.50	1.186	76.61	1.087	0.04	0.051	0.066
	Bluetooth	1Mbps	Top Side	5mm	Ant 3	Hotspot	0	2402	12.76	13.50	1.186	76.61	1.087	-0.01	0.219	0.282
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	Hotspot	42	5210	12.36	14.00	1.459	100.00	1.000	0.06	0.365	0.532
48	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Hotspot	42	5210	12.36	14.00	1.459	100.00	1.000	0.05	0.437	0.638
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+4(4)	Hotspot	42	5210	12.36	14.00	1.459	100.00	1.000	-0.04	0.014	0.020
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	42	5210	12.36	14.00	1.459	100.00	1.000	-0.15	0.139	0.203
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+4(4)	Hotspot	42	5210	12.36	14.00	1.459	100.00	1.000	0.11	0.215	0.314
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	Hotspot	155	5775	10.33	12.00	1.469	100.00	1.000	0.08	0.309	0.454
49	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Hotspot	155	5775	10.33	12.00	1.469	100.00	1.000	0.06	0.431	0.633
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+4(4)	Hotspot	155	5775	10.33	12.00	1.469	100.00	1.000	-0.01	0.032	0.047
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	155	5775	10.33	12.00	1.469	100.00	1.000	-0.11	0.155	0.228
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+4(4)	Hotspot	155	5775	10.33	12.00	1.469	100.00	1.000	-0.06	0.247	0.363



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	Duty Cycle %	Duty Cycle 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 3	23095	707.5	22.50	24.00	1.413	-	-	-0.15	0.346	0.489
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23095	707.5	21.55	23.00	1.396	-	-	-0.15	0.192	0.268
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	22.50	24.00	1.413	-	-	-0.07	0.604	0.853
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	21.55	23.00	1.396	-	-	0.11	0.485	0.677
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23095	707.5	21.52	23.00	1.406	-	-	-0.08	0.472	0.664
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	23095	707.5	22.50	24.00	1.413	-	-	0.01	0.349	0.493
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23095	707.5	21.52	23.00	1.406	-	-	0.03	0.196	0.276
50	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	22.50	24.00	1.413	-	-	-0.12	0.617	0.872
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	21.52	23.00	1.406	-	-	-0.08	0.475	0.668
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	23095	707.5	21.49	23.00	1.416	-	-	-0.08	0.459	0.650
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	22.60	24.00	1.380	-	-	-0.13	0.341	0.471
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI 3	23230	782	21.61	23.00	1.377	-	-	0.06	0.216	0.297
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	22.60	24.00	1.380	-	-	-0.01	0.618	0.853
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	21.61	23.00	1.377	-	-	-0.03	0.497	0.684
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	23230	782	21.60	23.00	1.380	-	-	-0.03	0.492	0.679
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	23230	782	22.43	24.00	1.435	-	-	0.11	0.348	0.500
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI 3	23230	782	21.48	23.00	1.419	-	-	-0.05	0.210	0.298
51	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	22.43	24.00	1.435	-	-	-0.08	0.614	0.881
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	21.48	23.00	1.419	-	-	0.18	0.477	0.677
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	23230	782	21.46	23.00	1.426	-	-	0.14	0.470	0.670
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI 3	189	836.4	26.98	27.90	1.236	-	-	0.02	0.470	0.581
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	189	836.4	26.98	27.90	1.236	-	-	0.07	0.728	0.900
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	128	824.2	26.88	27.90	1.265	-	-	0.03	0.674	0.852
52	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI 3	251	848.8	26.87	27.90	1.268	-	-	-0.01	0.767	0.972
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Front	16mm	Ant 0	-	DSI 4	189	836.4	28.74	30.00	1.337	-	-	0.03	0.186	0.249
	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	20mm	Ant 0	-	DSI 4	251	848.8	28.85	30.00	1.303	-	-	0.05	0.154	0.201
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	DSI 3	189	836.4	26.42	27.40	1.253	-	-	-0.17	0.432	0.541
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	189	836.4	26.42	27.40	1.253	-	-	-0.01	0.663	0.831
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	128	824.2	26.20	27.40	1.318	-	-	-0.05	0.623	0.821
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	251	848.8	26.27	27.40	1.297	-	-	0.02	0.630	0.817
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Front	16mm	Ant 1	-	DSI 4	189	836.4	30.23	31.50	1.340	-	-	0.09	0.156	0.209
	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	20mm	Ant 1	-	DSI 4	189	836.4	30.23	31.50	1.340	-	-	-0.01	0.166	0.222
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI 3	4182	836.4	22.32	24.00	1.472	-	-	0.15	0.523	0.770
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4182	836.4	22.32	24.00	1.472	-	-	-0.09	0.808	1.190
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4132	826.4	22.28	24.00	1.486	-	-	0.16	0.800	1.189
53	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI 3	4233	846.6	22.18	24.00	1.521	-	-	0.02	0.833	1.267
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI 3	4233	846.6	22.18	24.00	1.521	-	-	0.03	0.756	1.150
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	4182	836.4	22.71	24.00	1.346	-	-	-0.01	0.295	0.397
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4182	836.4	22.71	24.00	1.346	-	-	-0.05	0.655	0.882
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4132	826.4	22.68	24.00	1.355	-	-	0.05	0.604	0.819
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4233	846.6	22.65	24.00	1.365	-	-	0.02	0.599	0.817
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	22.82	24.00	1.312	-	-	-0.1	0.303	0.398
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI 3	26865	831.5	21.91	23.00	1.285	-	-	0.07	0.195	0.251
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	22.82	24.00	1.312	-	-	-0.03	0.545	0.715
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI 3	26865	831.5	21.91	23.00	1.285	-	-	0.18	0.354	0.455
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	26865	831.5	22.77	24.00	1.327	-	-	-0.01	0.388	0.515
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI 3	26865	831.5	21.80	23.00	1.318	-	-	-0.08	0.253	0.334
54	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.77	24.00	1.327	-	-	-0.01	0.572	0.759
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI 3	26865	831.5	21.80	23.00	1.318	-	-	0.05	0.371	0.489



FCC SAR Test Report

Report No. : FA3D1818

	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	166300	831.5	22.86	24.00	1.300	-	-	-0.09	0.389	0.506
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI 3	166300	831.5	22.71	24.00	1.346	-	-	-0.17	0.400	0.538
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	166300	831.5	22.86	24.00	1.300	-	-	0.02	0.569	0.740
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI 3	166300	831.5	22.71	24.00	1.346	-	-	-0.1	0.535	0.720
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	166300	831.5	22.56	24.00	1.393	-	-	0.06	0.326	0.454
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	166300	831.5	22.46	24.00	1.426	-	-	0.01	0.370	0.527
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	166300	831.5	22.56	24.00	1.393	-	-	-0.04	0.596	0.830
55	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	166300	831.5	22.46	24.00	1.426	-	-	-0.04	0.612	0.872
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	166300	831.5	21.55	23.00	1.396	-	-	0.11	0.501	0.700
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	1413	1732.6	18.80	20.10	1.349	-	-	-0.02	0.904	1.219
56	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	1312	1712.4	18.78	20.10	1.355	-	-	-0.09	0.947	1.283
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	1513	1752.6	18.75	20.10	1.365	-	-	0.04	0.881	1.202
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	1413	1732.6	18.80	20.10	1.349	-	-	0.13	0.800	1.079
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	1312	1712.4	18.78	20.10	1.355	-	-	-0.18	0.815	1.104
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	1513	1752.6	18.75	20.10	1.365	-	-	-0.11	0.818	1.116
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	Headset	DSI 3	1312	1712.4	18.78	20.10	1.355	-	-	0.02	0.852	1.155
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 2	-	DSI 4	1312	1712.4	22.06	23.00	1.242	-	-	-0.09	0.614	0.762
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 2	-	DSI 4	1513	1752.6	22.01	23.00	1.256	-	-	-0.11	0.620	0.779
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1413	1732.6	14.75	15.70	1.245	-	-	-0.01	0.326	0.406
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1413	1732.6	14.75	15.70	1.245	-	-	-0.06	0.689	0.857
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1312	1712.4	14.73	15.70	1.250	-	-	-0.01	0.708	0.885
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	14.70	15.70	1.259	-	-	0.03	0.657	0.827
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	0.06	0.236	0.325
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 1	-	DSI 4	1312	1712.4	21.08	22.50	1.387	-	-	-0.01	0.547	0.759
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	19.75	21.00	1.334	-	-	-0.15	0.912	1.216
57	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132072	1720	19.72	21.00	1.343	-	-	-0.02	0.963	1.293
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	132572	1770	19.70	21.00	1.349	-	-	-0.14	0.935	1.261
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	19.71	21.00	1.346	-	-	-0.19	0.870	1.171
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132072	1720	19.65	21.00	1.365	-	-	0.01	0.894	1.220
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	132572	1770	19.63	21.00	1.371	-	-	0.06	0.877	1.202
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 3	132322	1745	19.68	21.00	1.355	-	-	0.02	0.875	1.186
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	19.75	21.00	1.334	-	-	0.12	0.783	1.044
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132072	1720	19.72	21.00	1.343	-	-	-0.16	0.829	1.113
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	132572	1770	19.70	21.00	1.349	-	-	-0.12	0.826	1.114
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	19.71	21.00	1.346	-	-	0.07	0.803	1.081
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132072	1720	19.65	21.00	1.365	-	-	0.11	0.795	1.085
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	132572	1770	19.63	21.00	1.371	-	-	-0.05	0.768	1.053
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	132322	1745	19.68	21.00	1.355	-	-	-0.02	0.773	1.048
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	Headset	DSI 3	132072	1720	19.72	21.00	1.343	-	-	0.18	0.863	1.159
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 2	-	DSI 4	132072	1720	22.52	24.00	1.406	-	-	-0.02	0.520	0.731
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	132572	1770	22.58	24.00	1.387	-	-	-0.12	0.526	0.729
	LTE Band 66B	15M	QPSK	1	74	-	Front	5mm	Ant 2	-	DSI 3	132047+132140	1717.5+1726.8	19.57	21.00	1.390	-	-	0.03	0.851	1.183
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	14.75	15.70	1.245	-	-	-0.13	0.340	0.423
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	132322	1745	14.73	15.70	1.250	-	-	0.16	0.231	0.289
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	14.75	15.70	1.245	-	-	-0.15	0.656	0.816
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	14.72	15.70	1.253	-	-	-0.06	0.709	0.888
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	14.70	15.70	1.259	-	-	-0.09	0.680	0.856
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	14.73	15.70	1.250	-	-	0.14	0.654	0.818
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132072	1720	14.72	15.70	1.253	-	-	0.1	0.642	0.805
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	132572	1770	14.67	15.70	1.268	-	-	-0.09	0.632	0.801
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	132322	1745	14.69	15.70	1.262	-	-	0.07	0.637	0.804
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	132322	1745	21.40	22.50	1.288	-	-	-0.13	0.259	0.334
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	DSI 4	132072	1720	21.32	22.50	1.312	-	-	-0.06	0.522	0.685
	LTE Band 66B	15M	QPSK	1	74	-	Back	5mm	Ant 1	-	DSI 3	132047+132140	1717.5+1726.8	14.61	15.70	1.285	-	-	0.03	0.676	0.869



FCC SAR Test Report

Report No. : FA3D1818

58	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	349000	1745	20.61	21.90	1.346	-	-	0.01	0.963	1.296
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	349000	1745	20.58	21.90	1.355	-	-	0.08	0.934	1.266
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	349000	1745	20.52	21.90	1.374	-	-	0.16	0.898	1.234
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	349000	1745	20.61	21.90	1.346	-	-	0.01	0.744	1.001
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	349000	1745	20.58	21.90	1.355	-	-	-0.16	0.762	1.033
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	349000	1745	20.52	21.90	1.374	-	-	0.1	0.733	1.007
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Headset	DSI 3	349000	1745	20.61	21.90	1.346	-	-	0.06	0.845	1.137
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	349000	1745	20.56	21.90	1.361	-	-	0.01	0.874	1.190
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	16mm	Ant 2	-	DSI 4	349000	1745	22.58	24.00	1.387	-	-	0.03	0.418	0.580
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	20mm	Ant 2	-	DSI 4	349000	1745	22.53	24.00	1.403	-	-	0.01	0.398	0.558
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	15.85	16.80	1.245	-	-	-0.16	0.352	0.438
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	349000	1745	15.83	16.80	1.250	-	-	-0.18	0.345	0.431
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	15.85	16.80	1.245	-	-	0.05	0.702	0.874
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	15.83	16.80	1.250	-	-	-0.08	0.688	0.860
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	15.79	16.80	1.262	-	-	-0.1	0.676	0.853
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	349000	1745	15.77	16.80	1.268	-	-	0.16	0.665	0.843
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	16mm	Ant 1	-	DSI 4	349000	1745	22.72	24.00	1.343	-	-	0.06	0.251	0.337
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	DSI 4	349000	1745	22.72	24.00	1.343	-	-	0.02	0.570	0.765
1900MHz																					
59	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 2	-	DSI 3	661	1880	24.78	26.00	1.324	-	-	-0.08	0.981	1.299
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 2	-	DSI 3	512	1850.2	25.05	26.00	1.245	-	-	-0.09	0.893	1.111
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 2	-	DSI 3	810	1909.8	24.74	26.00	1.337	-	-	-0.06	0.928	1.240
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 2	-	DSI 3	661	1880	24.78	26.00	1.324	-	-	-0.17	0.691	0.915
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 2	-	DSI 3	512	1850.2	25.05	26.00	1.245	-	-	-0.01	0.676	0.841
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	5mm	Ant 2	-	DSI 3	810	1909.8	24.74	26.00	1.337	-	-	-0.11	0.646	0.863
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	5mm	Ant 2	Headset	DSI 3	661	1880	24.78	26.00	1.324	-	-	0.06	0.844	1.118
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	DSI 3	661	1880	18.35	19.10	1.189	-	-	0.07	0.356	0.423
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	661	1880	18.35	19.10	1.189	-	-	-0.08	0.678	0.806
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	512	1850.2	18.26	19.10	1.213	-	-	0.19	0.660	0.801
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	DSI 3	810	1909.8	18.17	19.10	1.239	-	-	-0.06	0.647	0.802
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	16mm	Ant 1	-	DSI 4	661	1880	23.76	25.00	1.330	-	-	-0.08	0.191	0.254
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	20mm	Ant 1	-	DSI 4	661	1880	23.76	25.00	1.330	-	-	0.02	0.310	0.412
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	9400	1880	20.25	21.40	1.303	-	-	0.03	0.963	1.255
60	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	9262	1852.4	20.23	21.40	1.309	-	-	-0.08	0.989	1.295
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	DSI 3	9538	1907.6	20.20	21.40	1.318	-	-	0.16	0.942	1.242
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	9400	1880	20.25	21.40	1.303	-	-	-0.06	0.759	0.989
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	9262	1852.4	20.23	21.40	1.309	-	-	0.02	0.769	1.007
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	DSI 3	9538	1907.6	20.20	21.40	1.318	-	-	-0.16	0.745	0.982
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	Headset	DSI 3	9262	1852.4	20.23	21.40	1.309	-	-	0.02	0.865	1.132
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 2	-	DSI 4	9262	1852.4	22.13	23.00	1.222	-	-	-0.08	0.460	0.562
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 2	-	DSI 4	9262	1852.4	22.13	23.00	1.222	-	-	0.02	0.439	0.536
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	9400	1880	12.75	14.10	1.365	-	-	-0.03	0.371	0.506
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9400	1880	12.75	14.10	1.365	-	-	-0.02	0.645	0.880
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9262	1852.4	12.71	14.10	1.377	-	-	0.02	0.625	0.861
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9538	1907.6	12.73	14.10	1.371	-	-	0.12	0.598	0.820
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 1	-	DSI 4	9400	1880	21.02	22.50	1.406	-	-	-0.03	0.335	0.471
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 1	-	DSI 4	9400	1880	21.02	22.50	1.406	-	-	-0.02	0.486	0.683
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	18900	1880	20.95	21.90	1.245	-	-	-0.03	1.000	1.245
61	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	18700	1860	20.92	21.90	1.253	-	-	0.06	1.020	1.278
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	19100	1900	20.90	21.90	1.259	-	-	-0.15	0.949	1.195
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	18900	1880	20.92	21.90	1.253	-	-	0.16	0.912	1.143
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	18700	1860	20.88	21.90	1.265	-	-	0.14	0.935	1.183
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	19100	1900	20.85	21.90	1.274	-	-	-0.17	0.906	1.154
	LTE Band 2	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 3	18900	1880	20.89	21.90	1.262	-	-	0.05	0.899	1.134
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	18900	1880	20.95	21.90	1.245	-	-	-0.06	0.847	1.054
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	18700	1860	20.92	21.90	1.253	-	-	-0.13	0.860	1.078



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	19100	1900	20.90	21.90	1.259	-	-	-0.01	0.845	1.064
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	18900	1880	20.92	21.90	1.253	-	-	-0.11	0.823	1.031
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	18700	1860	20.88	21.90	1.265	-	-	0.17	0.815	1.031
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	19100	1900	20.85	21.90	1.274	-	-	-0.05	0.809	1.030
	LTE Band 2	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	18900	1880	20.89	21.90	1.262	-	-	0.01	0.801	1.011
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 2	Headset	DSI 3	18700	1860	20.92	21.90	1.253	-	-	0.02	0.889	1.114
	LTE Band 2	20M	QPSK	1	0	-	Front	16mm	Ant 2	-	DSI 4	18700	1860	22.60	24.00	1.380	-	-	0.06	0.437	0.603
	LTE Band 2	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	18700	1860	22.60	24.00	1.380	-	-	0.04	0.433	0.598
	LTE Band 2	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	12.30	13.60	1.349	-	-	-0.03	0.356	0.480
	LTE Band 2	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	18900	1880	12.29	13.60	1.352	-	-	0.02	0.245	0.331
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	12.30	13.60	1.349	-	-	-0.1	0.623	0.840
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	12.27	13.60	1.358	-	-	-0.09	0.651	0.884
	LTE Band 2	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	19100	1900	12.25	13.60	1.365	-	-	0.06	0.632	0.862
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	12.29	13.60	1.352	-	-	0.07	0.608	0.822
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	18700	1860	12.22	13.60	1.374	-	-	0.15	0.595	0.818
	LTE Band 2	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	19100	1900	12.17	13.60	1.390	-	-	-0.05	0.584	0.812
	LTE Band 2	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	18900	1880	12.27	13.60	1.358	-	-	-0.08	0.576	0.782
	LTE Band 2	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	18900	1880	21.15	22.50	1.365	-	-	-0.03	0.339	0.463
	LTE Band 2	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	DSI 4	18700	1860	21.12	22.50	1.374	-	-	-0.09	0.499	0.686
62	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	376000	1880	20.65	21.70	1.274	-	-	-0.14	0.890	1.133
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	372000	1860	20.62	21.70	1.282	-	-	0.03	0.991	1.271
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	380000	1900	20.60	21.70	1.288	-	-	-0.06	0.895	1.153
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	376000	1880	20.62	21.70	1.282	-	-	0.02	0.963	1.235
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	372000	1860	20.51	21.70	1.315	-	-	0.16	0.940	1.236
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	380000	1900	20.48	21.70	1.324	-	-	0.01	0.929	1.230
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	376000	1880	20.54	21.70	1.306	-	-	-0.04	0.908	1.186
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	376000	1880	20.65	21.70	1.274	-	-	0.13	0.648	0.825
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	372000	1860	20.62	21.70	1.282	-	-	0.1	0.635	0.814
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	380000	1900	20.60	21.70	1.288	-	-	-0.17	0.630	0.812
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	376000	1880	20.62	21.70	1.282	-	-	0.12	0.670	0.859
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	372000	1860	20.51	21.70	1.315	-	-	0.04	0.666	0.876
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	380000	1900	20.48	21.70	1.324	-	-	-0.01	0.652	0.863
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	376000	1880	20.54	21.70	1.306	-	-	-0.08	0.648	0.846
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	Headset	DSI 3	372000	1860	20.62	21.70	1.282	-	-	0.06	0.875	1.122
	FR1 n2 Other PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	372000	1860	20.53	21.70	1.309	-	-	0.06	0.896	1.173
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	16mm	Ant 2	-	DSI 4	372000	1860	22.68	24.00	1.355	-	-	-0.05	0.396	0.537
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	20mm	Ant 2	-	DSI 4	372000	1860	22.54	24.00	1.400	-	-	0.18	0.377	0.528
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	376000	1880	15.57	16.90	1.358	-	-	-0.13	0.306	0.416
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	376000	1880	15.50	16.90	1.380	-	-	0.01	0.333	0.460
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	15.57	16.90	1.358	-	-	-0.11	0.612	0.831
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	15.50	16.90	1.380	-	-	0.03	0.598	0.825
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	380000	1900	15.52	16.90	1.374	-	-	-0.05	0.595	0.818
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	15.50	16.90	1.380	-	-	-0.14	0.634	0.875
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	372000	1860	15.45	16.90	1.396	-	-	-0.01	0.618	0.863
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	380000	1900	15.48	16.90	1.387	-	-	-0.12	0.604	0.838
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	15.41	16.90	1.409	-	-	0.07	0.602	0.848
	FR1 n2 Other PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	376000	1880	15.44	16.90	1.400	-	-	0.01	0.596	0.834
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	16mm	Ant 1	-	DSI 4	376000	1880	22.43	24.00	1.435	-	-	0.03	0.148	0.212
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	20mm	Ant 1	-	DSI 4	376000	1880	22.43	24.00	1.435	-	-	0.01	0.253	0.363
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	21100	2535	21.10	22.10	1.259	-	-	0.09	0.944	1.188
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	20850	2510	21.08	22.10	1.265	-	-	0.04	0.869	1.099
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	21350	2560	21.05	22.10	1.274	-	-	0.11	0.919	1.170
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	21100	2535	21.09	22.10	1.262	-	-	-0.13	0.871	1.099
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	20850	2510	21.03	22.10	1.279	-	-	0.05	0.854	1.093
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	21350	2560	20.96	22.10	1.300	-	-	0.06	0.823	1.070



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 3	21100	2535	21.06	22.10	1.271	-	-	0.12	0.846	1.075
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	21100	2535	21.10	22.10	1.259	-	-	0.09	1.010	1.272
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	20850	2510	21.08	22.10	1.265	-	-	0.17	0.944	1.194
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	21350	2560	21.05	22.10	1.274	-	-	-0.16	0.975	1.242
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	21100	2535	21.09	22.10	1.262	-	-	-0.17	0.915	1.155
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	20850	2510	21.03	22.10	1.279	-	-	-0.09	0.906	1.159
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	21350	2560	20.96	22.10	1.300	-	-	-0.08	0.886	1.152
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	21100	2535	21.06	22.10	1.271	-	-	0.11	0.831	1.056
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	21100	2535	21.10	22.10	1.259	-	-	0.02	0.846	1.065
	LTE Band 7	20M	QPSK	1	0	-	Front	16mm	Ant 2	-	DSI 4	21100	2535	22.80	24.00	1.318	-	-	0.03	0.496	0.654
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	21100	2535	22.80	24.00	1.318	-	-	0.02	0.464	0.612
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3	21100+21298	2535+2554.8	20.97	22.10	1.297	-	-	0.06	0.915	1.187
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	16.22	17.10	1.225	-	-	0.17	0.657	0.805
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	20850	2510	16.20	17.10	1.230	-	-	-0.14	0.686	0.844
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	21350	2560	16.18	17.10	1.236	-	-	0.06	0.665	0.822
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	16.20	17.10	1.230	-	-	-0.06	0.653	0.803
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	20850	2510	16.17	17.10	1.239	-	-	0.02	0.648	0.803
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	21350	2560	16.16	17.10	1.242	-	-	0.06	0.632	0.785
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	21100	2535	16.17	17.10	1.239	-	-	-0.15	0.625	0.774
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	16.22	17.10	1.225	-	-	-0.04	0.721	0.883
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	16.20	17.10	1.230	-	-	-0.16	0.692	0.851
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	16.18	17.10	1.236	-	-	-0.03	0.678	0.838
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	16.20	17.10	1.230	-	-	0.17	0.663	0.816
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	20850	2510	16.17	17.10	1.239	-	-	0.03	0.654	0.810
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	21350	2560	16.16	17.10	1.242	-	-	0.01	0.648	0.805
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	21100	2535	16.17	17.10	1.239	-	-	0.02	0.642	0.795
	LTE Band 7	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	20850	2510	21.10	22.50	1.380	-	-	-0.14	0.468	0.646
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	DSI 4	21100	2535	21.15	22.50	1.365	-	-	-0.04	0.516	0.704
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	21100+21298	2535+2554.8	16.09	17.10	1.262	-	-	0.06	0.685	0.864
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 10	-	DSI 3	21100	2535	18.56	19.60	1.271	-	-	0.14	0.255	0.324
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 10	-	DSI 3	21100	2535	18.50	19.60	1.288	-	-	0.04	0.166	0.214
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	21100	2535	18.56	19.60	1.271	-	-	-0.07	0.371	0.471
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	DSI 3	21100	2535	18.50	19.60	1.288	-	-	0.03	0.336	0.433
	LTE Band 7C	20M	QPSK	1	99	-	Back	5mm	Ant 10	-	DSI 3	21100+21298	2535+2554.8	18.44	19.60	1.306	-	-	0.06	0.353	0.461
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	20.94	22.50	1.432	-	-	-0.16	0.754	1.080
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	20850	2510	20.90	22.50	1.445	-	-	-0.03	0.698	1.009
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	21350	2560	20.89	22.50	1.449	-	-	-0.06	0.716	1.037
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	19.96	21.50	1.426	-	-	0.08	0.599	0.854
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	20850	2510	19.93	21.50	1.435	-	-	-0.03	0.587	0.843
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	21350	2560	19.84	21.50	1.466	-	-	-0.03	0.575	0.843
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	21100	2535	19.92	21.50	1.439	-	-	-0.07	0.579	0.833
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	20.94	22.50	1.432	-	-	0.11	0.840	1.203
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	20850	2510	20.90	22.50	1.445	-	-	-0.13	0.859	1.242
63	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21350	2560	20.89	22.50	1.449	-	-	0.02	0.889	1.288
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	19.96	21.50	1.426	-	-	0.17	0.704	1.004
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	20850	2510	19.93	21.50	1.435	-	-	0.08	0.685	0.983
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	21350	2560	19.84	21.50	1.466	-	-	-0.07	0.664	0.973
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	21100	2535	19.92	21.50	1.439	-	-	-0.1	0.671	0.965
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	21350	2560	20.89	22.50	1.449	-	-	0.06	0.726	1.052
	LTE Band 7C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	21350+21152	2560+2540.2	20.76	22.50	1.493	-	-	0.02	0.800	1.194
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	40620	2593	22.41	23.50	1.285	62.9	1.006	-0.01	0.929	1.201
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	39750	2506	22.38	23.50	1.294	62.9	1.006	0.13	0.896	1.167
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	40185	2549.5	22.31	23.50	1.315	62.9	1.006	0.12	0.889	1.176
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	41055	2636.5	22.39	23.50	1.291	62.9	1.006	0.03	0.892	1.159
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	DSI 3	41490	2680	22.36	23.50	1.300	62.9	1.006	0.18	0.909	1.189



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	40620	2593	21.37	22.50	1.297	62.9	1.006	-0.14	0.722	0.942
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	39750	2506	21.21	22.50	1.346	62.9	1.006	0.16	0.696	0.942
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	40185	2549.5	21.29	22.50	1.321	62.9	1.006	-0.1	0.673	0.895
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	41055	2636.5	21.24	22.50	1.337	62.9	1.006	0.07	0.684	0.920
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	DSI 3	41490	2680	21.28	22.50	1.324	62.9	1.006	0.18	0.694	0.925
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	DSI 3	40620	2593	21.26	22.50	1.330	62.9	1.006	-0.1	0.659	0.882
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	22.41	23.50	1.285	62.9	1.006	-0.02	0.991	1.281
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	39750	2506	22.38	23.50	1.294	62.9	1.006	-0.17	0.934	1.216
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	40185	2549.5	22.31	23.50	1.315	62.9	1.006	0.08	0.951	1.258
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	41055	2636.5	22.39	23.50	1.291	62.9	1.006	0.01	0.959	1.246
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	41490	2680	22.36	23.50	1.300	62.9	1.006	0.02	0.941	1.231
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	21.37	22.50	1.297	62.9	1.006	-0.11	0.756	0.987
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	39750	2506	21.21	22.50	1.346	62.9	1.006	0.01	0.747	1.011
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	40185	2549.5	21.29	22.50	1.321	62.9	1.006	-0.15	0.730	0.970
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	41055	2636.5	21.24	22.50	1.337	62.9	1.006	0.19	0.714	0.960
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	DSI 3	41490	2680	21.28	22.50	1.324	62.9	1.006	0.07	0.700	0.933
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	21.26	22.50	1.330	62.9	1.006	-0.01	0.732	0.980
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	DSI 3	40620	2593	23.86	25.10	1.330	42.9	1.009	0.03	0.923	1.239
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 2	Headset	DSI 3	40620	2593	22.41	23.50	1.285	62.9	1.006	0.02	0.844	1.091
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 2	Headset	DSI 3	40620	2593	22.41	23.50	1.285	62.9	1.006	0.06	0.865	1.118
	LTE Band 41	20M	QPSK	1	0	-	Front	16mm	Ant 2	-	DSI 4	40620	2593	22.41	23.50	1.285	62.9	1.006	-0.08	0.206	0.266
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	40620	2593	22.41	23.50	1.285	62.9	1.006	-0.06	0.193	0.250
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	16mm	Ant 2	-	DSI 4	40620	2593	25.45	26.50	1.274	42.9	1.009	0.1	0.293	0.376
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	20mm	Ant 2	-	DSI 4	40620	2593	25.45	26.50	1.274	42.9	1.009	0.02	0.269	0.346
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3	40620+ 40818	2593+ 2612.8	22.31	23.50	1.315	62.9	1.006	0.06	0.902	1.193
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 2	-	DSI 3	40620+ 40818	2593+ 2612.8	23.79	25.10	1.352	42.9	1.009	0.02	0.875	1.194
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	17.26	18.40	1.300	62.9	1.006	0.18	0.640	0.837
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	17.21	18.40	1.315	62.9	1.006	-0.05	0.507	0.671
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	17.24	18.40	1.306	62.9	1.006	-0.04	0.547	0.719
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	17.23	18.40	1.309	62.9	1.006	-0.08	0.664	0.875
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	17.19	18.40	1.321	62.9	1.006	0.03	0.543	0.722
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	17.23	18.40	1.309	62.9	1.006	-0.14	0.518	0.682
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	39750	2506	17.15	18.40	1.334	62.9	1.006	0.18	0.541	0.726
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	40185	2549.5	17.22	18.40	1.312	62.9	1.006	0.02	0.558	0.737
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41055	2636.5	17.17	18.40	1.327	62.9	1.006	0.16	0.539	0.720
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI 3	41490	2680	17.12	18.40	1.343	62.9	1.006	0.06	0.557	0.752
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	DSI 3	40620	2593	17.21	18.40	1.315	62.9	1.006	-0.02	0.510	0.675
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	17.26	18.40	1.300	62.9	1.006	-0.08	0.684	0.895
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	17.21	18.40	1.315	62.9	1.006	0.1	0.615	0.814
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	17.24	18.40	1.306	62.9	1.006	0.08	0.587	0.771
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	17.23	18.40	1.309	62.9	1.006	0.01	0.676	0.890
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	17.19	18.40	1.321	62.9	1.006	-0.13	0.643	0.855
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	17.23	18.40	1.309	62.9	1.006	-0.1	0.602	0.793
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	39750	2506	17.15	18.40	1.334	62.9	1.006	0.11	0.593	0.796
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	40185	2549.5	17.22	18.40	1.312	62.9	1.006	-0.17	0.583	0.770
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41055	2636.5	17.17	18.40	1.327	62.9	1.006	0.01	0.575	0.768
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI 3	41490	2680	17.12	18.40	1.343	62.9	1.006	0.1	0.579	0.782
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	17.21	18.40	1.315	62.9	1.006	0.11	0.564	0.746
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI 3	40620	2593	19.01	20.00	1.256	42.9	1.009	-0.06	0.680	0.862
	LTE Band 41	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	41055	2636.5	21.63	23.00	1.371	62.9	1.006	0.08	0.312	0.430
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	DSI 4	40620	2593	21.66	23.00	1.361	62.9	1.006	0.03	0.333	0.456
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	DSI 4	41055	2636.5	24.63	26.00	1.371	42.9	1.009	0.01	0.356	0.492
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	DSI 4	40620	2593	24.70	26.00	1.349	42.9	1.009	-0.08	0.434	0.591
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	40620+	2593+	17.16	18.40	1.330	62.9	1.006	0.02	0.643	0.861



FCC SAR Test Report

Report No. : FA3D1818

												40818	2612.8									
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	DSI 3	40620+40818	2593+2612.8	18.93	20.00	1.279	42.9	1.009	0.03	0.652	0.842	
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 10	-	DSI 3	40620	2593	20.70	22.00	1.349	62.9	1.006	0.01	0.426	0.578	
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 10	-	DSI 3	40620	2593	20.64	22.00	1.368	62.9	1.006	-0.06	0.352	0.484	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	40620	2593	20.70	22.00	1.349	62.9	1.006	-0.08	0.580	0.787	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	39750	2506	20.62	22.00	1.374	62.9	1.006	-0.09	0.529	0.731	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	40185	2549.5	20.66	22.00	1.361	62.9	1.006	-0.12	0.561	0.768	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	41055	2636.5	20.65	22.00	1.365	62.9	1.006	-0.06	0.536	0.736	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	41490	2680	20.68	22.00	1.355	62.9	1.006	-0.08	0.522	0.712	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	DSI 3	40620	2593	20.64	22.00	1.368	62.9	1.006	0.09	0.456	0.627	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	DSI 3	39750	2506	20.60	22.00	1.380	62.9	1.006	-0.08	0.448	0.622	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	DSI 3	40185	2549.5	20.63	22.00	1.371	62.9	1.006	0.17	0.443	0.611	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	DSI 3	41055	2636.5	20.64	22.00	1.368	62.9	1.006	0.18	0.441	0.607	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	DSI 3	41490	2680	20.62	22.00	1.374	62.9	1.006	-0.04	0.452	0.625	
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 10	-	DSI 3	40620	2593	20.62	22.00	1.374	62.9	1.006	0.13	0.471	0.651	
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	DSI 3	40620	2593	22.44	23.60	1.306	42.9	1.009	0.03	0.596	0.785	
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 10	-	DSI 3	40620+40818	2593+2612.8	20.61	22.00	1.377	62.9	1.006	0.01	0.556	0.770	
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 10	-	DSI 3	40620+40818	2593+2612.8	22.36	23.60	1.330	42.9	1.009	0.05	0.575	0.772	
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	40620	2593	21.80	22.80	1.259	62.9	1.006	0.17	0.601	0.761	
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	39750	2506	21.73	22.80	1.279	62.9	1.006	0.18	0.584	0.752	
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	40185	2549.5	21.77	22.80	1.268	62.9	1.006	0.05	0.577	0.736	
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	41055	2636.5	21.75	22.80	1.274	62.9	1.006	0.04	0.572	0.733	
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI 3	41490	2680	21.76	22.80	1.271	62.9	1.006	0.15	0.590	0.754	
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	40620	2593	21.03	22.00	1.250	62.9	1.006	0.03	0.497	0.625	
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	39750	2506	20.96	22.00	1.271	62.9	1.006	0.14	0.485	0.620	
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	40185	2549.5	20.94	22.00	1.276	62.9	1.006	-0.16	0.477	0.613	
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	41055	2636.5	20.89	22.00	1.291	62.9	1.006	-0.02	0.465	0.604	
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI 3	41490	2680	20.91	22.00	1.285	62.9	1.006	0.1	0.473	0.612	
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI 3	40620	2593	21.01	22.00	1.256	62.9	1.006	-0.1	0.471	0.595	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	40620	2593	21.80	22.80	1.259	62.9	1.006	-0.05	0.978	1.239	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	39750	2506	21.73	22.80	1.279	62.9	1.006	0.01	0.951	1.224	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	40185	2549.5	21.77	22.80	1.268	62.9	1.006	-0.09	0.925	1.180	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41055	2636.5	21.75	22.80	1.274	62.9	1.006	0.03	0.931	1.193	
64	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41490	2680	21.76	22.80	1.271	62.9	1.006	-0.07	1.020	1.304	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	40620	2593	21.03	22.00	1.250	62.9	1.006	-0.16	0.813	1.023	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	39750	2506	20.96	22.00	1.271	62.9	1.006	-0.15	0.812	1.038	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	40185	2549.5	20.94	22.00	1.276	62.9	1.006	0.06	0.806	1.035	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	41055	2636.5	20.89	22.00	1.291	62.9	1.006	0.15	0.792	1.029	
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI 3	41490	2680	20.91	22.00	1.285	62.9	1.006	-0.1	0.768	0.993	
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI 3	40620	2593	21.01	22.00	1.256	62.9	1.006	0.17	0.771	0.974	
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41490	2680	23.47	24.40	1.239	42.9	1.009	-0.03	1.000	1.250	
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI 3	41490	2680	21.76	22.80	1.271	62.9	1.006	0.02	0.842	1.076	
	LTE Band 41	20M	QPSK	1	0	-	Front	16mm	Ant 0	-	DSI 4	40620	2593	21.52	23.00	1.406	62.9	1.006	0.17	0.072	0.102	
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 0	-	DSI 4	41490	2680	21.44	23.00	1.432	62.9	1.006	-0.07	0.086	0.124	
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	16mm	Ant 0	-	DSI 4	40620	2593	24.55	26.00	1.396	42.9	1.009	0.17	0.117	0.165	
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	20mm	Ant 0	-	DSI 4	41490	2680	24.42	26.00	1.439	42.9	1.009	-0.07	0.120	0.174	
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41490+41292	2680+2660.2	21.62	22.80	1.312	62.9	1.006	0.06	0.903	1.192	
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI 3	41490+41292	2680+2660.2	23.33	24.40	1.279	42.9	1.009	0.03	0.915	1.181	
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	507000	2535	20.15	21.30	1.303	-	-	0.1	0.819	1.067	
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	507000	2535	20.10	21.30	1.318	-	-	-0.04	0.784	1.034	
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 2	-	DSI 3	507000	2535	20.06	21.30	1.330	-	-	0.03	0.766	1.019	
65	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	507000	2535	20.15	21.30	1.303	-	-	-0.06	0.987	1.286	
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	507000	2535	20.10	21.30	1.318	-	-	0.09	0.936	1.234	



FCC SAR Test Report

Report No. : FA3D1818

	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 2	-	DSI 3	507000	2535	20.06	21.30	1.330	-	-	0.01	0.912	1.213
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 2	Headset	DSI 3	507000	2535	20.15	21.30	1.303	-	-	0.02	0.846	1.102
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	16mm	Ant 2	-	DSI 4	507000	2535	22.63	24.00	1.371	-	-	0.06	0.401	0.550
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 2	-	DSI 4	507000	2535	22.63	24.00	1.371	-	-	0.02	0.369	0.506
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	16.12	17.40	1.343	-	-	-0.07	0.607	0.815
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	16.07	17.40	1.358	-	-	0.07	0.598	0.812
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI 3	507000	2535	16.05	17.40	1.365	-	-	-0.03	0.577	0.787
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.12	17.40	1.343	-	-	-0.02	0.649	0.871
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.07	17.40	1.358	-	-	0.07	0.627	0.852
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.05	17.40	1.365	-	-	-0.13	0.613	0.836
	FR1 n7 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI 3	507000	2535	16.07	17.40	1.358	-	-	0.02	0.626	0.850
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	16mm	Ant 1	-	DSI 4	507000	2535	22.62	24.00	1.374	-	-	0.01	0.434	0.596
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	DSI 4	507000	2535	22.62	24.00	1.374	-	-	-0.02	0.502	0.690
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	20.20	21.10	1.230	-	-	0.11	0.999	1.229
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	20.16	21.10	1.242	-	-	-0.08	0.983	1.221
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 2	-	DSI 3	518598	2592.99	20.13	21.10	1.250	-	-	-0.17	0.952	1.190
66	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	20.20	21.10	1.230	-	-	0.06	1.030	1.267
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	20.16	21.10	1.242	-	-	-0.08	0.990	1.229
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 2	-	DSI 3	518598	2592.99	20.13	21.10	1.250	-	-	-0.04	0.921	1.151
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 2	Headset	DSI 3	518598	2592.99	20.20	21.10	1.230	-	-	0.06	0.823	1.013
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 2	Headset	DSI 3	518598	2592.99	20.20	21.10	1.230	-	-	0.02	0.863	1.062
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	16mm	Ant 2	-	DSI 4	518598	2592.99	22.66	24.00	1.361	-	-	0.11	0.358	0.487
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 2	-	DSI 4	518598	2592.99	22.66	24.00	1.361	-	-	0.06	0.330	0.449
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	518598	2592.99	16.05	17.30	1.334	-	-	0.03	0.619	0.825
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	518598	2592.99	16.01	17.30	1.346	-	-	-0.09	0.574	0.773
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 1	-	DSI 3	518598	2592.99	15.97	17.30	1.358	-	-	0.01	0.555	0.754
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	518598	2592.99	16.05	17.30	1.334	-	-	0.02	0.665	0.887
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	518598	2592.99	16.01	17.30	1.346	-	-	-0.07	0.623	0.838
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	DSI 3	518598	2592.99	15.97	17.30	1.358	-	-	-0.02	0.600	0.815
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	16mm	Ant 1	-	DSI 4	518598	2592.99	21.08	22.50	1.387	-	-	0.03	0.407	0.564
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 1	-	DSI 4	518598	2592.99	21.08	22.50	1.387	-	-	0.02	0.531	0.736
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 10	-	DSI 3	518598	2592.99	22.96	24.00	1.271	-	-	0.08	0.285	0.362
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 10	-	DSI 3	518598	2592.99	22.85	24.00	1.303	-	-	-0.04	0.308	0.401
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 10	-	DSI 3	518598	2592.99	22.96	24.00	1.271	-	-	0.12	0.322	0.409
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 10	-	DSI 3	518598	2592.99	22.85	24.00	1.303	-	-	-0.02	0.372	0.485
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 0	-	DSI 3	518598	2592.99	19.93	20.80	1.222	-	-	-0.02	0.954	1.166
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 0	-	DSI 3	518598	2592.99	19.90	20.80	1.230	-	-	0.13	0.948	1.166
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 0	-	DSI 3	518598	2592.99	19.87	20.80	1.239	-	-	-0.07	0.901	1.116
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	518598	2592.99	19.93	20.80	1.222	-	-	-0.03	0.997	1.218
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	518598	2592.99	19.90	20.80	1.230	-	-	-0.03	1.030	1.267
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 0	-	DSI 3	518598	2592.99	19.87	20.80	1.239	-	-	0.05	0.976	1.209
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	Headset	DSI 3	518598	2592.99	19.90	20.80	1.230	-	-	0.01	0.896	1.102
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	16mm	Ant 0	-	DSI 4	518598	2592.99	20.94	22.00	1.276	-	-	0.06	0.158	0.202
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	20mm	Ant 0	-	DSI 4	518598	2592.99	20.85	22.00	1.303	-	-	-0.03	0.147	0.192
3500MHz																					
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 7	-	DSI 3	42590	3500	19.60	20.40	1.202	62.9	1.006	-0.12	0.316	0.382
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 7	-	DSI 3	42590	3500	19.57	20.40	1.211	62.9	1.006	-0.19	0.205	0.250
67	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	DSI 3	42590	3500	19.60	20.40	1.202	62.9	1.006	-0.08	0.510	0.617
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	DSI 3	42590	3500	19.57	20.40	1.211	62.9	1.006	-0.15	0.481	0.586
	LTE Band 42C Part 27Q	20M	QPSK	1	99	-	Back	5mm	Ant 7	-	DSI 3	42590+42788	3500+3519.8	19.50	20.40	1.230	62.9	1.006	0.02	0.485	0.600
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	16mm	Ant 7	-	DSI 4	42590	3500	22.80	24.00	1.318	62.9	1.006	0.03	0.102	0.135
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	20mm	Ant 7	-	DSI 4	42590	3500	22.80	24.00	1.318	62.9	1.006	0.01	0.169	0.224
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 7	-	DSI 3	55830	3609	19.65	20.40	1.189	62.9	1.006	0.18	0.287	0.343
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 7	-	DSI 3	55830	3609	19.62	20.40	1.197	62.9	1.006	-0.13	0.191	0.230



FCC SAR Test Report

Report No. : FA3D1818

68	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	DSI 3	55830	3609	19.65	20.40	1.189	62.9	1.006	0.04	0.506	0.605
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	DSI 3	55340	3560	19.60	20.40	1.202	62.9	1.006	0.12	0.485	0.587
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	DSI 3	56150	3641	19.59	20.40	1.205	62.9	1.006	0.11	0.479	0.581
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	DSI 3	56640	3690	19.56	20.40	1.213	62.9	1.006	0.11	0.471	0.575
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	DSI 3	55830	3609	19.62	20.40	1.197	62.9	1.006	-0.06	0.502	0.604
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	DSI 3	55340	3560	19.52	20.40	1.225	62.9	1.006	-0.02	0.481	0.593
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	DSI 3	56150	3641	19.53	20.40	1.222	62.9	1.006	0.02	0.477	0.586
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	DSI 3	56640	3690	19.45	20.40	1.245	62.9	1.006	0.12	0.475	0.595
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 7	-	DSI 3	55830	3609	19.58	20.40	1.208	62.9	1.006	0.02	0.463	0.563
	LTE Band 48	20M	QPSK	1	0	-	Front	16mm	Ant 7	-	DSI 4	55830	3609	22.87	24.00	1.297	62.9	1.006	0.05	0.112	0.146
	LTE Band 48	20M	QPSK	1	0	-	Back	20mm	Ant 7	-	DSI 4	55830	3609	22.87	24.00	1.297	62.9	1.006	0.04	0.175	0.228
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	656000	3840	18.20	19.50	1.349	-	-	-0.11	0.422	0.569
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	DSI 3	656000	3840	18.17	19.50	1.358	-	-	-0.05	0.443	0.602
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	18.20	19.50	1.349	-	-	0.03	0.633	0.854
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	18.17	19.50	1.358	-	-	-0.06	0.644	0.875
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	18.10	19.50	1.380	-	-	0.02	0.579	0.799
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	DSI 3	656000	3840	21.17	22.50	1.358	50	1.000	-0.02	0.629	0.854
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	16mm	Ant 7	-	DSI 4	656000	3840	22.62	24.00	1.374	-	-	0.03	0.085	0.117
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	20mm	Ant 7	-	DSI 4	656000	3840	22.62	24.00	1.374	-	-	0.02	0.123	0.169
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	16mm	Ant 7	-	DSI 4	656000	3840	25.58	27.00	1.387	50	1.000	0.04	0.079	0.110
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	20mm	Ant 7	-	DSI 4	656000	3840	25.58	27.00	1.387	50	1.000	0.02	0.116	0.161
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	-	DSI 3	656000	3840	18.05	19.00	1.245	-	-	0.18	0.098	0.122
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	-	DSI 3	656000	3840	18.02	19.00	1.253	-	-	0.16	0.153	0.192
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	18.05	19.00	1.245	-	-	0.19	0.688	0.856
69	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	18.02	19.00	1.253	-	-	-0.08	0.704	0.882
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	17.89	19.00	1.291	-	-	-0.12	0.643	0.830
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	-	DSI 3	656000	3840	21.00	22.00	1.259	50	1.000	-0.08	0.659	0.830
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	16mm	Ant 4	-	DSI 4	656000	3840	22.46	24.00	1.426	-	-	0.03	0.121	0.172
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	20mm	Ant 4	-	DSI 4	656000	3840	22.46	24.00	1.426	-	-	0.01	0.362	0.516
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	16mm	Ant 4	-	DSI 4	656000	3840	25.36	27.00	1.459	50	1.000	0.06	0.119	0.174
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	20mm	Ant 4	-	DSI 4	656000	3840	25.36	27.00	1.459	50	1.000	0.02	0.345	0.503
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	656000	3840	21.75	23.30	1.429	-	-	-0.18	0.376	0.537
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	-	DSI 3	656000	3840	21.72	23.30	1.439	-	-	-0.06	0.361	0.519
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	21.75	23.30	1.429	-	-	0.03	0.381	0.544
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	21.72	23.30	1.439	-	-	-0.15	0.375	0.540
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	-	DSI 3	656000	3840	24.81	26.30	1.409	50	1.000	0.06	0.362	0.510
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	16.85	17.80	1.245	-	-	-0.08	0.457	0.569
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	DSI 3	656000	3840	16.81	17.80	1.256	-	-	-0.04	0.421	0.529
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	16.85	17.80	1.245	-	-	0.09	0.705	0.877
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	16.81	17.80	1.256	-	-	0.12	0.663	0.833
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	16.76	17.80	1.271	-	-	-0.04	0.638	0.811
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	DSI 3	656000	3840	19.79	20.80	1.262	50	1.000	-0.01	0.649	0.819
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Front	16mm	Ant 5	-	DSI 4	656000	3840	22.79	24.00	1.321	-	-	0.06	0.288	0.381
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 5	-	DSI 4	656000	3840	22.79	24.00	1.321	-	-	0.02	0.338	0.447
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	16mm	Ant 5	-	DSI 4	656000	3840	25.82	27.00	1.312	50	1.000	0.06	0.247	0.324
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 5	-	DSI 4	656000	3840	25.82	27.00	1.312	50	1.000	0.02	0.326	0.428



FCC SAR Test Report

Report No. : FA3D1818

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/BT																	
70	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6+3(6)	-	Standalone	1	2412	17.98	19.50	1.419	100	1.000	-0.08	0.570	0.809
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6+3(6)	-	Standalone	6	2437	17.71	19.50	1.510	100	1.000	-0.08	0.603	0.911
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	-	Standalone	1	2412	17.98	19.50	1.419	100	1.000	-0.13	0.857	1.216
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	-	Standalone	6	2437	17.71	19.50	1.510	100	1.000	-0.04	0.860	1.299
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm	Ant 6+3(6)	-	Standalone	6	2437	17.75	19.50	1.496	98.97	1.010	0.06	0.756	1.142
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	-	Standalone	11	2462	17.80	19.50	1.479	100	1.000	-0.13	0.824	1.219
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	Headset	Standalone	6	2437	17.71	19.50	1.510	100	1.000	0.06	0.670	1.012
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6+3(6)	-	Simultaneous	6	2437	12.05	14.00	1.567	100	1.000	-0.03	0.158	0.248
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	-	Simultaneous	6	2437	12.05	14.00	1.567	100	1.000	0.01	0.239	0.374
	WLAN2.4GHz	802.11b 1Mbps	Front	16mm	Ant 6+3(3)	-	Full power	6	2437	18.69	20.50	1.517	100	1.000	0.02	0.268	0.407
71	WLAN2.4GHz	802.11b 1Mbps	Back	20mm	Ant 6+3(3)	-	Full power	6	2437	18.69	20.50	1.517	100	1.000	0.06	0.428	0.649
	Bluetooth	1Mbps	Front	5mm	Ant 6	-	Standalone	78	2480	17.61	18.00	1.094	76.94	1.083	0.06	0.131	0.155
	Bluetooth	1Mbps	Back	5mm	Ant 6	-	Standalone	78	2480	17.61	18.00	1.094	76.94	1.083	0.01	0.243	0.288
	Bluetooth	1Mbps	Front	5mm	Ant 3	-	Standalone	0	2402	17.77	18.00	1.054	76.61	1.087	0.02	0.224	0.257
72	Bluetooth	1Mbps	Back	5mm	Ant 3	-	Standalone	0	2402	17.77	18.00	1.054	76.61	1.087	-0.06	0.240	0.275
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	-	Standalone	58	5290	14.06	16.00	1.563	100.00	1.000	0.08	0.540	0.844
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	-	Standalone	58	5290	14.06	16.00	1.563	100.00	1.000	-0.06	0.761	1.190
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	-	Simultaneous	58	5290	9.08	11.00	1.556	100.00	1.000	0.05	0.177	0.275
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	-	Simultaneous	58	5290	9.08	11.00	1.556	100.00	1.000	-0.11	0.250	0.389
	WLAN5.3GHz	802.11a 6Mbps	Front	16mm	Ant 5+4(4)	-	Full power	60	5300	18.75	20.50	1.496	98.91	1.011	0.06	0.233	0.352
	WLAN5.3GHz	802.11a 6Mbps	Back	20mm	Ant 5+4(4)	-	Full power	60	5300	18.75	20.50	1.496	98.91	1.011	0.02	0.385	0.582
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	-	Standalone	106	5530	13.28	15.00	1.486	100.00	1.000	-0.12	0.475	0.706
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	-	Standalone	106	5530	13.28	15.00	1.486	100.00	1.000	-0.06	0.792	1.177
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	-	Standalone	122	5610	13.16	15.00	1.528	100.00	1.000	0.11	0.676	1.033
73	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(5)	-	Simultaneous	106	5530	6.33	8.00	1.469	100.00	1.000	-0.03	0.158	0.232
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(5)	-	Simultaneous	106	5530	6.33	8.00	1.469	100.00	1.000	-0.15	0.263	0.386
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	16mm	Ant 5+4(4)	-	Full power	142	5710	20.21	22.00	1.510	100.00	1.000	0.02	0.218	0.329
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	20mm	Ant 5+4(4)	-	Full power	142	5710	20.21	22.00	1.510	100.00	1.000	0.03	0.369	0.557
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	-	Standalone	155	5775	13.13	14.50	1.371	100.00	1.000	0.02	0.581	0.796
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	-	Standalone	155	5775	13.13	14.50	1.371	100.00	1.000	0.06	0.811	1.112
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	-	Simultaneous	155	5775	8.19	9.50	1.352	100.00	1.000	0.02	0.189	0.256
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	-	Simultaneous	155	5775	8.19	9.50	1.352	100.00	1.000	0.16	0.264	0.357
	WLAN5.8GHz	802.11a 6Mbps	Front	16mm	Ant 5+4(5)	-	Full power	149	5745	18.74	20.50	1.500	98.91	1.011	0.02	0.209	0.317
	WLAN5.8GHz	802.11a 6Mbps	Back	20mm	Ant 5+4(5)	-	Full power	149	5745	18.74	20.50	1.500	98.91	1.011	0.01	0.399	0.605



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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
835MHz																				
75	GSM850	-	-	-	-	GPRS (3 Tx slots)	Back	0mm	Ant 0	DSI 6	189	836.4	28.74	30.00	1.337	-	-	0.01	1.410	1.885
76	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	22.32	24.00	1.472	-	-	-0.05	1.260	1.855
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1413	1732.6	21.90	22.80	1.230	-	-	-0.17	2.490	3.063
77	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1312	1712.4	21.85	22.80	1.245	-	-	0.01	2.520	3.136
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1513	1752.6	21.87	22.80	1.239	-	-	-0.03	2.450	3.035
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1413	1732.6	21.90	22.80	1.230	-	-	-0.17	1.750	2.153
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1312	1712.4	21.85	22.80	1.245	-	-	-0.17	1.710	2.128
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1513	1752.6	21.87	22.80	1.239	-	-	-0.17	1.680	2.081
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1413	1732.6	21.90	22.80	1.230	-	-	0.14	1.710	2.104
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1312	1712.4	21.85	22.80	1.245	-	-	0.11	1.680	2.091
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1513	1752.6	21.87	22.80	1.239	-	-	-0.05	1.780	2.205
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 2	DSI 4	1312	1712.4	22.06	23.00	1.242	-	-	0.01	0.783	0.972
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	7mm	Ant 2	DSI 4	1413	1732.6	22.07	23.00	1.239	-	-	-0.17	0.323	0.400
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	13mm	Ant 2	DSI 4	1513	1752.6	22.01	23.00	1.256	-	-	-0.05	0.480	0.603
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	18.56	19.90	1.361	-	-	0.11	0.992	1.351
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	18.56	19.90	1.361	-	-	0.16	1.730	2.355
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	18.52	19.90	1.374	-	-	0.05	1.770	2.432
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	18.54	19.90	1.368	-	-	0.05	1.700	2.325
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	1413	1732.6	18.56	19.90	1.361	-	-	-0.03	0.838	1.141
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1413	1732.6	18.56	19.90	1.361	-	-	-0.01	1.810	2.464
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1312	1712.4	18.52	19.90	1.374	-	-	0.07	1.720	2.363
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1513	1752.6	18.54	19.90	1.368	-	-	0.16	1.580	2.161
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	7mm	Ant 1	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	0.11	0.537	0.740
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 1	DSI 4	1312	1712.4	21.08	22.50	1.387	-	-	0.05	0.508	0.704
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	9mm	Ant 1	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	-0.03	0.334	0.460
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	15mm	Ant 1	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	-0.03	0.423	0.583
78	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	132322	1745	21.93	22.90	1.250	-	-	0.02	2.510	3.138
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	132072	1720	21.90	22.90	1.259	-	-	-0.1	2.400	3.021
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	132572	1770	21.88	22.90	1.265	-	-	0.07	2.460	3.111
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	132322	1745	21.88	22.90	1.265	-	-	0.11	2.420	3.061
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	132072	1720	21.83	22.90	1.279	-	-	-0.05	2.360	3.019
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	132572	1770	21.79	22.90	1.291	-	-	-0.08	2.410	3.112
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSI 6	132322	1745	21.85	22.90	1.274	-	-	0.16	2.450	3.120
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	21.93	22.90	1.250	-	-	0.03	1.680	2.100
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132072	1720	21.90	22.90	1.259	-	-	0.07	1.650	2.077
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	132572	1770	21.88	22.90	1.265	-	-	-0.18	1.630	2.062
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	21.88	22.90	1.265	-	-	0.01	1.600	2.024
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	132072	1720	21.83	22.90	1.279	-	-	0.03	1.580	2.021
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	132572	1770	21.79	22.90	1.291	-	-	-0.15	1.570	2.027
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 2	DSI 6	132322	1745	21.85	22.90	1.274	-	-	-0.15	1.550	1.974
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	21.93	22.90	1.250	-	-	0.18	1.480	1.850
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	21.88	22.90	1.265	-	-	0.02	1.450	1.834
	LTE Band 66	20M	QPSK	1	0	-	Front	6mm	Ant 2	DSI 4	132322	1745	22.64	24.00	1.368	-	-	0.02	0.631	0.863
	LTE Band 66	20M	QPSK	1	0	-	Back	7mm	Ant 2	DSI 4	132322	1745	22.64	24.00	1.368	-	-	0.03	0.296	0.405
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 2	DSI 4	132322	1745	22.64	24.00	1.368	-	-	0.18	0.384	0.525
	LTE Band 66B	15M	QPSK	1	74	-	Front	0mm	Ant 2	DSI 6	132322+132415	1745+1754.3	21.76	22.90	1.300	-	-	0.02	2.210	2.873
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	18.10	19.30	1.318	-	-	0.02	0.985	1.298
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	132322	1745	18.05	19.30	1.334	-	-	0.06	0.966	1.288
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	18.10	19.30	1.318	-	-	-0.13	1.460	1.925



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	132322	1745	18.05	19.30	1.334	-	-	0.04	1.030	1.374
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	132322	1745	18.10	19.30	1.318	-	-	-0.15	0.984	1.297
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	132322	1745	18.05	19.30	1.334	-	-	0.11	0.614	0.819
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	18.10	19.30	1.318	-	-	-0.02	1.720	2.267
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	18.04	19.30	1.337	-	-	0.1	1.810	2.419
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	18.06	19.30	1.330	-	-	-0.01	1.860	2.475
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	18.05	19.30	1.334	-	-	0.04	1.760	2.347
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132072	1720	17.90	19.30	1.380	-	-	0.13	1.720	2.374
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	132572	1770	17.97	19.30	1.358	-	-	-0.18	1.690	2.296
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	132322	1745	18.02	19.30	1.343	-	-	-0.11	1.750	2.350
	LTE Band 66	20M	QPSK	1	0	-	Front	7mm	Ant 1	DSI 4	132322	1745	21.40	22.50	1.288	-	-	0.02	0.552	0.711
	LTE Band 66	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	132322	1745	21.40	22.50	1.288	-	-	-0.13	0.486	0.626
	LTE Band 66	20M	QPSK	1	0	-	Left Side	9mm	Ant 1	DSI 4	132322	1745	21.40	22.50	1.288	-	-	0.06	0.311	0.401
	LTE Band 66	20M	QPSK	1	0	-	Top Side	15mm	Ant 1	DSI 4	132572	1770	21.35	22.50	1.303	-	-	-0.01	0.476	0.620
	LTE Band 66B	15M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	132597+ 132504	1772.5+ 1763.2	17.92	19.30	1.374	-	-	0.03	1.680	2.308
79	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	22.10	23.30	1.318	-	-	-0.08	2.230	2.940
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	22.06	23.30	1.330	-	-	0.05	2.350	3.127
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	21.83	23.00	1.309	-	-	0.17	1.880	2.461
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	22.10	23.30	1.318	-	-	0.18	1.600	2.109
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	22.06	23.30	1.330	-	-	-0.04	1.600	2.129
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	349000	1745	21.83	23.00	1.309	-	-	-0.08	1.260	1.650
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	349000	1745	22.10	23.30	1.318	-	-	-0.13	1.550	2.043
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	349000	1745	22.06	23.30	1.330	-	-	-0.13	1.510	2.009
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	349000	1745	21.83	23.00	1.309	-	-	0.06	1.230	1.610
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	349000	1745	21.42	23.00	1.439	-	-	0.02	1.750	2.518
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	6mm	Ant 2	DSI 4	349000	1745	22.53	24.00	1.403	-	-	0.05	0.442	0.620
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	7mm	Ant 2	DSI 4	349000	1745	22.53	24.00	1.403	-	-	-0.04	0.294	0.412
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	13mm	Ant 2	DSI 4	349000	1745	22.58	24.00	1.387	-	-	-0.13	0.296	0.410
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	18.60	19.90	1.349	-	-	-0.05	1.110	1.497
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	349000	1745	18.56	19.90	1.361	-	-	-0.13	1.060	1.443
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	18.60	19.90	1.349	-	-	0.16	1.650	2.226
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	18.56	19.90	1.361	-	-	0.01	1.810	2.464
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	349000	1745	18.53	19.90	1.371	-	-	-0.16	1.470	2.015
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	349000	1745	18.60	19.90	1.349	-	-	0.1	0.931	1.256
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	349000	1745	18.56	19.90	1.361	-	-	-0.04	0.820	1.116
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	18.60	19.90	1.349	-	-	-0.15	1.800	2.428
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	18.56	19.90	1.361	-	-	0.06	1.830	2.491
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	18.53	19.90	1.371	-	-	-0.11	1.490	2.043
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	349000	1745	18.49	19.90	1.384	-	-	-0.02	1.510	2.089
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	7mm	Ant 1	DSI 4	349000	1745	22.72	24.00	1.343	-	-	-0.05	0.576	0.773
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	349000	1745	22.58	24.00	1.387	-	-	0.01	0.498	0.691
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	9mm	Ant 1	DSI 4	349000	1745	22.72	24.00	1.343	-	-	0.1	0.329	0.442
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	15mm	Ant 1	DSI 4	349000	1745	22.58	24.00	1.387	-	-	0.06	0.509	0.706
1900MHz																				
80	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 2	DSI 6	661	1880	24.78	26.00	1.324	-	-	0.03	1.910	2.529
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 2	DSI 6	512	1850.2	25.05	26.00	1.245	-	-	0.07	1.840	2.290
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	0mm	Ant 2	DSI 6	810	1909.8	24.74	26.00	1.337	-	-	0.02	1.800	2.406
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Bottom Side	0mm	Ant 2	DSI 6	661	1880	24.78	26.00	1.324	-	-	0.01	1.160	1.536
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	DSI 6	661	1880	20.17	21.00	1.211	-	-	0.06	1.280	1.550
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	661	1880	20.17	21.00	1.211	-	-	-0.13	1.930	2.336
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	512	1850.2	20.13	21.00	1.222	-	-	0.17	1.830	2.236
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 6	810	1909.8	20.15	21.00	1.216	-	-	0.06	1.900	2.311
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	0mm	Ant 1	DSI 6	661	1880	20.17	21.00	1.211	-	-	0.02	1.360	1.646
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 1	DSI 6	661	1880	20.17	21.00	1.211	-	-	0.02	2.050	2.482
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 1	DSI 6	512	1850.2	20.13	21.00	1.222	-	-	0.03	1.960	2.395
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 1	DSI 6	810	1909.8	20.15	21.00	1.216	-	-	-0.04	2.000	2.432



FCC SAR Test Report

Report No. : FA3D1818

	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Front	7mm	Ant 1	DSI 4	661	1880	23.76	25.00	1.330	-	-	0.03	0.612	0.814
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Back	12mm	Ant 1	DSI 4	661	1880	23.76	25.00	1.330	-	-	-0.13	0.498	0.663
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Left Side	9mm	Ant 1	DSI 4	661	1880	23.76	25.00	1.330	-	-	0.02	0.349	0.464
	GSM1900	-	-	-	-	GPRS (3 Tx slots)	Top Side	15mm	Ant 1	DSI 4	661	1880	23.76	25.00	1.330	-	-	0.09	0.254	0.338
81	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	9400	1880	21.34	22.80	1.400	-	-	-0.09	2.200	3.079
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	9262	1852.4	21.30	22.80	1.413	-	-	0.02	2.200	3.108
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	9538	1907.6	21.28	22.80	1.419	-	-	0.07	2.180	3.094
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9400	1880	21.34	22.80	1.400	-	-	-0.09	1.160	1.624
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9400	1880	21.34	22.80	1.400	-	-	-0.07	1.500	2.099
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9262	1852.4	21.30	22.80	1.413	-	-	0.11	1.520	2.147
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9538	1907.6	21.28	22.80	1.419	-	-	-0.08	1.570	2.228
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 2	DSI 4	9262	1852.4	22.13	23.00	1.222	-	-	0.02	0.845	1.032
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	7mm	Ant 2	DSI 4	9400	1880	22.15	23.00	1.216	-	-	-0.09	0.615	0.748
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	13mm	Ant 2	DSI 4	9538	1907.6	22.12	23.00	1.225	-	-	-0.08	0.369	0.452
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	17.22	18.40	1.312	-	-	-0.15	1.340	1.758
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	17.22	18.40	1.312	-	-	0.08	1.860	2.441
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	17.20	18.40	1.318	-	-	-0.18	1.780	2.346
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9538	1907.6	17.18	18.40	1.324	-	-	0.03	1.750	2.318
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	9400	1880	17.22	18.40	1.312	-	-	-0.15	1.410	1.850
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	9400	1880	17.22	18.40	1.312	-	-	-0.08	1.350	1.771
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	7mm	Ant 1	DSI 4	9400	1880	21.02	22.50	1.406	-	-	0.03	0.677	0.952
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	12mm	Ant 1	DSI 4	9400	1880	21.02	22.50	1.406	-	-	0.01	0.452	0.636
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	9mm	Ant 1	DSI 4	9400	1880	21.02	22.50	1.406	-	-	0.05	0.389	0.547
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	15mm	Ant 1	DSI 4	9400	1880	21.02	22.50	1.406	-	-	0.02	0.266	0.374
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	18900	1880	22.63	24.00	1.371	-	-	0.11	2.020	2.769
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	18700	1860	22.60	24.00	1.380	-	-	-0.04	1.950	2.692
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	19100	1900	22.58	24.00	1.387	-	-	-0.08	1.970	2.732
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	18900	1880	21.67	23.00	1.358	-	-	-0.08	1.610	2.187
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	18700	1860	21.64	23.00	1.368	-	-	0.17	1.580	2.161
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	19100	1900	21.60	23.00	1.380	-	-	0.18	1.550	2.140
	LTE Band 2	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSI 6	18900	1880	21.66	23.00	1.361	-	-	-0.04	1.540	2.097
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	18900	1880	22.63	24.00	1.371	-	-	-0.17	1.210	1.659
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	18900	1880	21.67	23.00	1.358	-	-	-0.08	0.958	1.301
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	22.63	24.00	1.371	-	-	0.08	2.190	3.002
82	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	18700	1860	22.60	24.00	1.380	-	-	-0.02	2.300	3.175
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	19100	1900	22.58	24.00	1.387	-	-	0.01	2.270	3.148
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	21.67	23.00	1.358	-	-	-0.01	1.750	2.377
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	18700	1860	21.64	23.00	1.368	-	-	-0.06	1.820	2.489
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	19100	1900	21.60	23.00	1.380	-	-	-0.04	1.670	2.305
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	21.66	23.00	1.361	-	-	-0.09	1.800	2.451
	LTE Band 2	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	15.98	17.00	1.265	-	-	-0.08	1.220	1.543
	LTE Band 2	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	18900	1880	15.94	17.00	1.276	-	-	-0.13	1.180	1.506
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	15.98	17.00	1.265	-	-	-0.05	1.440	1.821
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	18900	1880	15.94	17.00	1.276	-	-	0.05	1.030	1.315
	LTE Band 2	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 6	18900	1880	15.98	17.00	1.265	-	-	-0.13	1.450	1.834
	LTE Band 2	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 6	18900	1880	15.94	17.00	1.276	-	-	0.06	1.390	1.774
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	18900	1880	15.98	17.00	1.265	-	-	-0.03	1.900	2.403
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	18700	1860	15.92	17.00	1.282	-	-	-0.15	1.860	2.385
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	19100	1900	15.94	17.00	1.276	-	-	0.01	1.910	2.438
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	18900	1880	15.94	17.00	1.276	-	-	0.02	1.830	2.336
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	18700	1860	15.84	17.00	1.306	-	-	0.07	1.840	2.403
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	19100	1900	15.83	17.00	1.309	-	-	0.16	1.820	2.383
	LTE Band 2	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	18900	1880	15.91	17.00	1.285	-	-	0.13	1.720	2.211
	LTE Band 2	20M	QPSK	1	0	-	Front	7mm	Ant 1	DSI 4	18900	1880	21.15	22.50	1.365	-	-	-0.08	0.608	0.830
	LTE Band 2	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	18900	1880	21.15	22.50	1.365	-	-	-0.05	0.496	0.677
	LTE Band 2	20M	QPSK	1	0	-	Left Side	9mm	Ant 1	DSI 4	18900	1880	21.15	22.50	1.365	-	-	-0.13	0.377	0.514



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 2	20M	QPSK	1	0	-	Top Side	15mm	Ant 1	DSI 4	19100	1900	21.09	22.50	1.384	-	-	0.01	0.296	0.410
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	376000	1880	21.70	23.10	1.380	-	-	0.1	2.220	3.064
83	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	372000	1860	21.67	23.10	1.390	-	-	0.01	2.250	3.127
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	380000	1900	21.65	23.10	1.396	-	-	-0.17	2.040	2.849
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	376000	1880	21.67	23.10	1.390	-	-	0.04	2.190	3.044
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	372000	1860	21.53	23.10	1.435	-	-	-0.01	2.120	3.043
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	380000	1900	21.63	23.10	1.403	-	-	-0.08	2.020	2.834
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	376000	1880	21.49	23.00	1.416	-	-	0.05	1.910	2.704
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	376000	1880	21.70	23.10	1.380	-	-	0.06	1.360	1.877
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	376000	1880	21.67	23.10	1.390	-	-	0.02	1.280	1.779
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	376000	1880	21.70	23.10	1.380	-	-	0.06	1.230	1.698
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	376000	1880	21.67	23.10	1.390	-	-	0.02	1.160	1.612
	FR1 n2 Other PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	372000	1860	21.60	23.00	1.380	-	-	0.01	1.950	2.692
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	6mm	Ant 2	DSI 4	372000	1860	22.68	24.00	1.355	-	-	0.01	0.849	1.151
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	7mm	Ant 2	DSI 4	376000	1880	22.72	24.00	1.343	-	-	0.06	0.652	0.875
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	13mm	Ant 2	DSI 4	376000	1880	22.72	24.00	1.343	-	-	0.06	0.298	0.400
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	376000	1880	19.46	20.60	1.300	-	-	0.17	1.250	1.625
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	376000	1880	19.44	20.60	1.306	-	-	0.06	1.310	1.711
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	19.46	20.60	1.300	-	-	-0.02	1.910	2.483
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	372000	1860	19.42	20.60	1.312	-	-	0.02	1.840	2.414
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	380000	1900	19.43	20.60	1.309	-	-	-0.04	1.820	2.383
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	19.44	20.60	1.306	-	-	-0.15	1.900	2.482
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	372000	1860	19.36	20.60	1.330	-	-	0.11	1.820	2.421
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	380000	1900	19.40	20.60	1.318	-	-	-0.02	1.810	2.386
	FR1 n2	20M	QPSK	100	0	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	19.42	20.60	1.312	-	-	0.1	1.740	2.283
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	376000	1880	19.46	20.60	1.300	-	-	0.04	1.420	1.846
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 6	376000	1880	19.44	20.60	1.306	-	-	0.13	1.360	1.776
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	19.46	20.60	1.300	-	-	-0.18	1.500	1.950
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	376000	1880	19.44	20.60	1.306	-	-	-0.15	1.510	1.972
	FR1 n2 Other PA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	376000	1880	19.38	20.60	1.324	-	-	0.02	1.660	2.198
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Front	7mm	Ant 1	DSI 4	376000	1880	22.43	24.00	1.435	-	-	0.06	0.646	0.927
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	376000	1880	22.50	24.00	1.413	-	-	-0.02	0.510	0.720
	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	9mm	Ant 1	DSI 4	376000	1880	22.50	24.00	1.413	-	-	0.04	0.359	0.507
	FR1 n2	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	15mm	Ant 1	DSI 4	376000	1880	22.43	24.00	1.435	-	-	-0.15	0.253	0.363
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	20.50	21.80	1.349	-	-	-0.03	1.850	2.496
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	20850	2510	20.45	21.80	1.365	-	-	0.05	1.810	2.470
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 2	DSI 6	21350	2560	20.47	21.80	1.358	-	-	-0.11	1.800	2.445
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	20.47	21.80	1.358	-	-	0.02	1.790	2.431
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	20850	2510	20.33	21.80	1.403	-	-	-0.12	1.760	2.469
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 2	DSI 6	21350	2560	20.41	21.80	1.377	-	-	0.03	1.730	2.383
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 2	DSI 6	21100	2535	20.43	21.80	1.371	-	-	-0.16	1.720	2.358
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	20.50	21.80	1.349	-	-	0.08	1.260	1.700
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 6	21100	2535	20.47	21.80	1.358	-	-	-0.07	1.240	1.684
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	20.50	21.80	1.349	-	-	-0.01	2.200	2.968
84	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	20850	2510	20.45	21.80	1.365	-	-	-0.03	2.350	3.207
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	21350	2560	20.47	21.80	1.358	-	-	-0.14	2.280	3.097
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	20.47	21.80	1.358	-	-	-0.15	2.160	2.934
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	20850	2510	20.33	21.80	1.403	-	-	0.11	2.090	2.932
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	21350	2560	20.41	21.80	1.377	-	-	-0.02	2.120	2.920
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	20.43	21.80	1.371	-	-	0.1	2.040	2.797
	LTE Band 7	20M	QPSK	1	0	-	Front	6mm	Ant 2	DSI 4	21100	2535	22.80	24.00	1.318	-	-	-0.03	0.521	0.687
	LTE Band 7	20M	QPSK	1	0	-	Back	7mm	Ant 2	DSI 4	21100	2535	22.80	24.00	1.318	-	-	0.08	0.449	0.592
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 2	DSI 4	20850	2510	22.75	24.00	1.334	-	-	-0.03	0.435	0.580
	LTE Band 7C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 2	DSI 6	20850+21048	2510+2529.8	20.32	21.80	1.406	-	-	0.02	2.080	2.925
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	17.66	18.60	1.242	-	-	0.03	1.520	1.887



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	21100	2535	17.62	18.60	1.253	-	-	0.02	1.470	1.842
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	17.66	18.60	1.242	-	-	-0.04	1.630	2.024
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	17.62	18.60	1.253	-	-	-0.01	1.620	2.030
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	17.61	18.60	1.256	-	-	0.03	1.650	2.072
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	17.62	18.60	1.253	-	-	-0.11	1.620	2.030
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	20850	2510	17.57	18.60	1.268	-	-	0.02	1.600	2.028
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	21350	2560	17.56	18.60	1.271	-	-	0.03	1.580	2.008
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	21100	2535	17.60	18.60	1.259	-	-	-0.06	1.550	1.951
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	17.66	18.60	1.242	-	-	-0.15	1.970	2.446
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	20850	2510	17.62	18.60	1.253	-	-	0.03	1.920	2.406
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	21350	2560	17.61	18.60	1.256	-	-	-0.13	1.940	2.437
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	17.62	18.60	1.253	-	-	0.16	1.860	2.331
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	20850	2510	17.57	18.60	1.268	-	-	-0.15	1.840	2.332
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	21350	2560	17.56	18.60	1.271	-	-	-0.02	1.870	2.376
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	21100	2535	17.60	18.60	1.259	-	-	-0.09	1.750	2.203
	LTE Band 7	20M	QPSK	1	0	-	Front	7mm	Ant 1	DSI 4	21100	2535	21.15	22.50	1.365	-	-	0.03	0.422	0.576
	LTE Band 7	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	21350	2560	21.11	22.50	1.377	-	-	0.03	0.231	0.318
	LTE Band 7	20M	QPSK	1	0	-	Top Side	15mm	Ant 1	DSI 4	21100	2535	21.15	22.50	1.365	-	-	-0.15	0.563	0.768
	LTE Band 7C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	21100+ 21298	2535+ 2554.8	17.51	18.60	1.285	-	-	0.01	1.850	2.378
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	21100	2535	18.56	19.60	1.271	-	-	-0.02	1.950	2.478
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	20850	2510	18.50	19.60	1.288	-	-	-0.17	1.880	2.422
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	21350	2560	18.52	19.60	1.282	-	-	0.17	1.920	2.462
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	21100	2535	18.50	19.60	1.288	-	-	-0.05	1.820	2.345
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	20850	2510	18.39	19.60	1.321	-	-	0.01	1.770	2.339
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	21350	2560	18.48	19.60	1.294	-	-	0.1	1.850	2.394
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 10	DSI 4	21100	2535	18.47	19.60	1.297	-	-	-0.17	1.680	2.179
	LTE Band 7C	20M	QPSK	1	99	-	Left Side	0mm	Ant 10	DSI 4	21100+ 21298	2535+ 2554.8	18.44	19.60	1.306	-	-	0.06	1.840	2.403
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	20.94	22.10	1.306	-	-	-0.15	2.380	3.109
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	20.90	22.10	1.318	-	-	0.11	2.360	3.111
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	20.89	22.10	1.321	-	-	0.02	2.420	3.198
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	19.96	21.50	1.426	-	-	-0.03	2.060	2.937
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	20850	2510	19.93	21.50	1.435	-	-	0.02	2.010	2.885
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350	2560	19.84	21.50	1.466	-	-	0.12	2.000	2.931
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	19.92	21.50	1.439	-	-	-0.08	1.920	2.762
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 0	DSI 4	21350	2560	20.89	22.50	1.449	-	-	0.02	0.136	0.197
	LTE Band 7C	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	21350+ 21152	2560+ 2540.2	20.71	22.10	1.377	-	-	0.01	2.120	2.920
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	22.41	23.50	1.285	62.9	1.006	0.01	2.260	2.922
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	39750	2506	22.38	23.50	1.294	62.9	1.006	-0.03	2.080	2.708
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	40185	2549.5	22.31	23.50	1.315	62.9	1.006	0.09	2.040	2.699
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41055	2636.5	22.39	23.50	1.291	62.9	1.006	-0.08	2.000	2.598
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490	2680	22.36	23.50	1.300	62.9	1.006	-0.05	2.090	2.734
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	21.37	22.50	1.297	62.9	1.006	-0.03	1.800	2.349
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	39750	2506	21.21	22.50	1.346	62.9	1.006	0.17	1.710	2.315
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	40185	2549.5	21.29	22.50	1.321	62.9	1.006	-0.14	1.780	2.366
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	41055	2636.5	21.24	22.50	1.337	62.9	1.006	0.06	1.750	2.353
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 6	41490	2680	21.28	22.50	1.324	62.9	1.006	-0.06	1.710	2.278
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	21.26	22.50	1.330	62.9	1.006	0.01	1.690	2.262
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	24.61	25.50	1.227	42.9	1.009	-0.02	2.460	3.047
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 2	DSI 4	40620	2593	22.41	23.50	1.285	62.9	1.006	0.06	0.161	0.208
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 2	DSI 4	40620	2593	25.45	26.50	1.274	42.9	1.009	0.01	0.223	0.287
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 2	DSI 6	40620+ 40818	2593+ 2612.8	22.31	23.50	1.315	62.9	1.006	0.03	2.120	2.805
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 2	DSI 6	40620+ 40818	2593+ 2612.8	24.54	25.50	1.247	42.9	1.009	0.06	2.260	2.844
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	19.40	20.50	1.288	62.9	1.006	-0.05	1.600	2.074
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	19.33	20.50	1.309	62.9	1.006	0.01	1.530	2.015



FCC SAR Test Report

Report No. : FA3D1818

	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	40185	2549.5	19.36	20.50	1.300	62.9	1.006	0.1	1.430	1.870
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	41055	2636.5	19.35	20.50	1.303	62.9	1.006	-0.17	1.640	2.150
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	DSI 6	41490	2680	19.37	20.50	1.297	62.9	1.006	0.04	1.540	2.010
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	19.37	20.50	1.297	62.9	1.006	-0.01	1.480	1.931
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	39750	2506	19.31	20.50	1.315	62.9	1.006	0.02	1.460	1.932
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	40185	2549.5	19.31	20.50	1.315	62.9	1.006	0.16	1.400	1.852
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	41055	2636.5	19.33	20.50	1.309	62.9	1.006	0.01	1.450	1.910
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	DSI 6	41490	2680	19.26	20.50	1.330	62.9	1.006	-0.04	1.440	1.927
	LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 1	DSI 6	40620	2593	19.33	20.50	1.309	62.9	1.006	-0.08	1.420	1.870
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	19.40	20.50	1.288	62.9	1.006	0.05	1.520	1.970
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	19.33	20.50	1.309	62.9	1.006	0.06	1.260	1.659
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	40185	2549.5	19.36	20.50	1.300	62.9	1.006	-0.09	1.340	1.753
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41055	2636.5	19.35	20.50	1.303	62.9	1.006	-0.08	1.410	1.848
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 6	41490	2680	19.37	20.50	1.297	62.9	1.006	0.13	1.360	1.775
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	19.37	20.50	1.297	62.9	1.006	0.12	1.350	1.762
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	39750	2506	19.31	20.50	1.315	62.9	1.006	0.13	1.360	1.799
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	40185	2549.5	19.31	20.50	1.315	62.9	1.006	0.12	1.390	1.839
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	41055	2636.5	19.33	20.50	1.309	62.9	1.006	0.07	1.320	1.738
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 6	41490	2680	19.26	20.50	1.330	62.9	1.006	0.08	1.300	1.740
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 1	DSI 6	40620	2593	19.33	20.50	1.309	62.9	1.006	0.03	1.290	1.699
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	19.40	20.50	1.288	62.9	1.006	-0.09	1.910	2.475
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	19.33	20.50	1.309	62.9	1.006	0.18	1.840	2.423
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	19.36	20.50	1.300	62.9	1.006	0.16	1.880	2.459
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	19.35	20.50	1.303	62.9	1.006	-0.1	1.770	2.320
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	19.37	20.50	1.297	62.9	1.006	0.07	1.730	2.258
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	19.37	20.50	1.297	62.9	1.006	0.18	1.610	2.101
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	39750	2506	19.31	20.50	1.315	62.9	1.006	-0.1	1.650	2.183
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	19.31	20.50	1.315	62.9	1.006	0.01	1.620	2.143
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	19.33	20.50	1.309	62.9	1.006	-0.15	1.670	2.199
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 6	41490	2680	19.26	20.50	1.330	62.9	1.006	0.19	1.660	2.222
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	19.33	20.50	1.309	62.9	1.006	0.07	1.620	2.134
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 6	40620	2593	21.03	22.10	1.279	42.9	1.009	0.02	1.850	2.388
	LTE Band 41	20M	QPSK	1	0	-	Front	7mm	Ant 1	DSI 4	41055	2636.5	21.63	23.00	1.371	62.9	1.006	-0.17	0.712	0.982
	LTE Band 41	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	40620	2593	21.66	23.00	1.361	62.9	1.006	0.05	0.572	0.783
	LTE Band 41	20M	QPSK	1	0	-	Top Side	15mm	Ant 1	DSI 4	40620	2593	21.66	23.00	1.361	62.9	1.006	-0.09	0.439	0.601
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	7mm	Ant 1	DSI 4	41055	2636.5	24.63	26.00	1.371	42.9	1.009	0.03	0.916	1.267
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	12mm	Ant 1	DSI 4	40620	2593	24.70	26.00	1.349	42.9	1.009	-0.09	0.584	0.795
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	15mm	Ant 1	DSI 4	40620	2593	24.70	26.00	1.349	42.9	1.009	0.18	0.442	0.602
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	40620+40818	2593+2612.8	19.33	20.50	1.309	62.9	1.006	0.06	1.790	2.357
	LTE Band 41 HPUE	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	DSI 6	40620+40818	2593+2612.8	20.96	22.10	1.300	42.9	1.009	0.02	1.720	2.256
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	40620	2593	20.70	22.00	1.349	62.9	1.006	-0.03	1.830	2.483
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	39750	2506	20.62	22.00	1.374	62.9	1.006	-0.16	1.710	2.364
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	40185	2549.5	20.66	22.00	1.361	62.9	1.006	-0.18	1.670	2.287
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	41055	2636.5	20.65	22.00	1.365	62.9	1.006	-0.07	1.750	2.402
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	41490	2680	20.68	22.00	1.355	62.9	1.006	0.11	1.750	2.386
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	40620	2593	20.64	22.00	1.368	62.9	1.006	-0.08	1.680	2.312
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	39750	2506	20.60	22.00	1.380	62.9	1.006	-0.1	1.620	2.250
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	40185	2549.5	20.63	22.00	1.371	62.9	1.006	-0.01	1.610	2.220
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	41055	2636.5	20.64	22.00	1.368	62.9	1.006	-0.09	1.660	2.284
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 10	DSI 4	41490	2680	20.62	22.00	1.374	62.9	1.006	-0.06	1.650	2.281
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 10	DSI 4	40620	2593	20.62	22.00	1.374	62.9	1.006	-0.17	1.630	2.253
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	0mm	Ant 10	DSI 4	40620	2593	22.44	23.60	1.306	42.9	1.009	0.03	1.740	2.293
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	0mm	Ant 10	DSI 4	40620+40818	2593+2612.8	20.61	22.00	1.377	62.9	1.006	0.06	1.650	2.286
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	0mm	Ant 10	DSI 4	40620+	2593+	22.36	23.60	1.330	42.9	1.009	0.02	1.620	2.175



FCC SAR Test Report

Report No. : FA3D1818

	HPUE										40818	2612.8								
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	21.02	22.50	1.406	62.9	1.006	-0.13	2.050	2.900
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	20.96	22.50	1.426	62.9	1.006	-0.09	1.940	2.782
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	20.99	22.50	1.416	62.9	1.006	0.05	1.980	2.820
85	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	20.98	22.50	1.419	62.9	1.006	0.08	2.210	3.155
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	20.94	22.50	1.432	62.9	1.006	0.02	2.120	3.054
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	20.58	22.00	1.387	62.9	1.006	-0.13	1.940	2.706
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	39750	2506	20.48	22.00	1.419	62.9	1.006	0.06	1.870	2.670
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	40185	2549.5	20.50	22.00	1.413	62.9	1.006	-0.16	1.910	2.714
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	20.51	22.00	1.409	62.9	1.006	-0.04	1.880	2.665
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	DSI 6	41490	2680	20.40	22.00	1.445	62.9	1.006	-0.15	1.890	2.748
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	DSI 6	40620	2593	20.54	22.00	1.400	62.9	1.006	0.11	1.860	2.619
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	DSI 6	41055	2636.5	22.47	24.10	1.455	42.9	1.009	-0.02	2.140	3.143
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 0	DSI 4	41055	2636.5	21.48	23.00	1.419	62.9	1.006	0.03	0.104	0.148
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	13mm	Ant 0	DSI 4	41055	2636.5	24.44	26.00	1.432	42.9	1.009	0.08	0.139	0.201
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	DSI 6	41055+41253	2636.5+2656.3	20.81	22.50	1.476	62.9	1.006	0.03	2.000	2.969
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	DSI 6	41055+41253	2636.5+2656.3	22.34	24.10	1.500	42.9	1.009	0.01	1.950	2.951
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	507000	2535	21.06	22.20	1.300	-	-	-0.05	2.200	2.860
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	507000	2535	21.01	22.20	1.315	-	-	0.18	2.040	2.683
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI 6	507000	2535	20.95	22.20	1.334	-	-	0.03	2.000	2.667
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	507000	2535	21.06	22.20	1.300	-	-	0.14	1.340	1.742
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 2	DSI 6	507000	2535	21.01	22.20	1.315	-	-	-0.17	1.440	1.894
86	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	21.06	22.20	1.300	-	-	0.04	2.460	3.198
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	21.01	22.20	1.315	-	-	0.17	2.220	2.920
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	20.95	22.20	1.334	-	-	0.02	2.190	2.920
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	6mm	Ant 2	DSI 4	507000	2535	22.63	24.00	1.371	-	-	-0.05	0.452	0.620
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	7mm	Ant 2	DSI 4	507000	2535	22.54	24.00	1.400	-	-	-0.17	0.308	0.431
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	13mm	Ant 2	DSI 4	507000	2535	22.63	24.00	1.371	-	-	0.04	0.296	0.406
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.15	20.30	1.303	-	-	0.03	1.820	2.372
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.09	20.30	1.321	-	-	-0.02	1.770	2.339
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.06	20.30	1.330	-	-	0.11	1.660	2.209
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.15	20.30	1.303	-	-	-0.05	1.690	2.202
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.09	20.30	1.321	-	-	0.05	1.640	2.167
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 6	507000	2535	19.06	20.30	1.330	-	-	-0.15	1.610	2.142
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.15	20.30	1.303	-	-	0.02	1.730	2.254
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.09	20.30	1.321	-	-	0.13	1.710	2.259
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 6	507000	2535	19.06	20.30	1.330	-	-	0.16	1.660	2.209
	FR1 n7 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	DSI 6	507000	2535	19.10	20.30	1.318	-	-	0.02	1.750	2.307
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	7mm	Ant 1	DSI 4	507000	2535	22.62	24.00	1.374	-	-	0.03	0.967	1.329
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	12mm	Ant 1	DSI 4	507000	2535	22.62	24.00	1.374	-	-	-0.05	0.578	0.794
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	15mm	Ant 1	DSI 4	507000	2535	22.52	24.00	1.406	-	-	0.13	0.475	0.668
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	518598	2592.99	19.54	20.80	1.337	-	-	0.03	2.100	2.807
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	518598	2592.99	19.50	20.80	1.349	-	-	0.01	2.050	2.765
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 2	DSI 6	518598	2592.99	19.47	20.80	1.358	-	-	0.06	1.960	2.662
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	518598	2592.99	19.54	20.80	1.337	-	-	0.05	1.360	1.818
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSI 6	518598	2592.99	19.50	20.80	1.349	-	-	0.04	1.290	1.740
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	19.54	20.80	1.337	-	-	-0.02	2.310	3.088
87	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	19.50	20.80	1.349	-	-	0.1	2.340	3.157
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	19.47	20.80	1.358	-	-	0.07	2.240	3.043
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	6mm	Ant 2	DSI 4	518598	2592.99	22.66	24.00	1.361	-	-	0.03	0.489	0.666
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	7mm	Ant 2	DSI 4	518598	2592.99	22.66	24.00	1.361	-	-	0.05	0.336	0.457
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	13mm	Ant 2	DSI 4	518598	2592.99	22.56	24.00	1.393	-	-	0.1	0.261	0.364
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	19.05	20.60	1.429	-	-	-0.04	1.650	2.358
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	18.96	20.60	1.459	-	-	0.11	1.600	2.334
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 1	DSI 6	518598	2592.99	18.92	20.60	1.472	-	-	0.04	1.570	2.312



FCC SAR Test Report

Report No. : FA3D1818

	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	19.05	20.60	1.429	-	-	0.13	1.560	2.229
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	18.96	20.60	1.459	-	-	-0.16	1.490	2.174
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 1	DSI 6	518598	2592.99	18.92	20.60	1.472	-	-	-0.14	1.460	2.150
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	19.05	20.60	1.429	-	-	-0.19	1.170	1.672
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	18.96	20.60	1.459	-	-	0.02	1.130	1.648
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	7mm	Ant 1	DSI 4	518598	2592.99	21.08	22.50	1.387	-	-	-0.04	0.953	1.322
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	12mm	Ant 1	DSI 4	518598	2592.99	21.08	22.50	1.387	-	-	0.13	0.607	0.842
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	15mm	Ant 1	DSI 4	518598	2592.99	21.08	22.50	1.387	-	-	-0.19	0.452	0.627
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 6	518598	2592.99	20.35	21.30	1.245	-	-	0.03	1.200	1.493
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 0	DSI 6	518598	2592.99	20.31	21.30	1.256	-	-	0.05	1.150	1.444
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	518598	2592.99	20.35	21.30	1.245	-	-	0.12	1.500	1.867
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSI 6	518598	2592.99	20.31	21.30	1.256	-	-	0.03	1.520	1.909
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	20.35	21.30	1.245	-	-	0.07	2.440	3.037
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	20.31	21.30	1.256	-	-	-0.08	2.510	3.153
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	20.02	21.00	1.253	-	-	-0.13	2.150	2.694
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	6mm	Ant 0	DSI 4	518598	2592.99	20.94	22.00	1.276	-	-	0.03	0.639	0.816
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	11mm	Ant 0	DSI 4	518598	2592.99	20.85	22.00	1.303	-	-	0.03	0.208	0.271
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	13mm	Ant 0	DSI 4	518598	2592.99	20.85	22.00	1.303	-	-	-0.08	0.133	0.173
3500MHz																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	0mm	Ant 7	DSI 6	42590	3500	19.60	20.40	1.202	62.9	1.006	0.16	1.350	1.633
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	42590	3500	19.57	20.40	1.211	62.9	1.006	0.1	1.300	1.583
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	42590	3500	19.60	20.40	1.202	62.9	1.006	-0.11	1.780	2.153
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	42190	3460	19.55	20.40	1.216	62.9	1.006	-0.06	1.760	2.153
88	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	42990	3540	19.57	20.40	1.211	62.9	1.006	-0.02	1.820	2.217
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	42590	3500	19.57	20.40	1.211	62.9	1.006	-0.15	1.760	2.143
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	42190	3460	19.51	20.40	1.227	62.9	1.006	0.03	1.730	2.136
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	42990	3540	19.49	20.40	1.233	62.9	1.006	-0.13	1.660	2.059
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Left Side	0mm	Ant 7	DSI 6	42590	3500	19.55	20.40	1.216	62.9	1.006	0.16	1.650	2.019
	LTE Band 42C Part 27Q	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	42990+42792	3540+3520.2	19.45	20.40	1.245	62.9	1.006	0.01	1.700	2.128
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	12mm	Ant 7	DSI 4	42590	3500	22.80	24.00	1.318	62.9	1.006	0.02	0.634	0.841
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	9mm	Ant 7	DSI 4	42990	3540	22.64	24.00	1.368	62.9	1.006	0.03	1.010	1.390
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	DSI 6	55830	3609	19.65	20.40	1.189	62.9	1.006	0.02	1.400	1.674
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	DSI 6	55340	3560	19.60	20.40	1.202	62.9	1.006	-0.16	1.360	1.645
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	DSI 6	56150	3641	19.59	20.40	1.205	62.9	1.006	0.05	1.340	1.624
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	DSI 6	56640	3690	19.56	20.40	1.213	62.9	1.006	-0.03	1.350	1.648
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	55830	3609	19.62	20.40	1.197	62.9	1.006	0.17	1.320	1.589
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	55340	3560	19.52	20.40	1.225	62.9	1.006	-0.15	1.270	1.565
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	56150	3641	19.53	20.40	1.222	62.9	1.006	0.03	1.250	1.536
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	DSI 6	56640	3690	19.45	20.40	1.245	62.9	1.006	0.01	1.220	1.527
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 7	DSI 6	55830	3609	19.58	20.40	1.208	62.9	1.006	0.16	1.260	1.531
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	55830	3609	19.65	20.40	1.189	62.9	1.006	0.05	1.910	2.284
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	55340	3560	19.60	20.40	1.202	62.9	1.006	-0.06	1.820	2.201
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	56150	3641	19.59	20.40	1.205	62.9	1.006	-0.13	1.940	2.352
89	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	56640	3690	19.56	20.40	1.213	62.9	1.006	-0.06	2.020	2.466
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	55830	3609	19.62	20.40	1.197	62.9	1.006	-0.01	1.970	2.372
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	55340	3560	19.52	20.40	1.225	62.9	1.006	-0.11	1.950	2.402
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	56150	3641	19.53	20.40	1.222	62.9	1.006	0.19	1.860	2.286
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 7	DSI 6	56640	3690	19.45	20.40	1.245	62.9	1.006	-0.14	1.850	2.316
	LTE Band 48	20M	QPSK	100	0	-	Left Side	0mm	Ant 7	DSI 6	55830	3609	19.58	20.40	1.208	62.9	1.006	-0.18	1.830	2.224
	LTE Band 48	20M	QPSK	1	0	-	Back	12mm	Ant 7	DSI 4	55830	3609	22.87	24.00	1.297	62.9	1.006	0.06	0.639	0.834
	LTE Band 48	20M	QPSK	1	0	-	Left Side	9mm	Ant 7	DSI 4	56640	3690	22.71	24.00	1.346	62.9	1.006	0.02	1.060	1.435
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	18.20	19.50	1.349	-	-	0.06	1.350	1.821



FCC SAR Test Report

Report No. : FA3D1818

	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	DSI 6	656000	3840	18.17	19.50	1.358	-	-	0.03	1.290	1.752
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 7	DSI 6	656000	3840	18.20	19.50	1.349	-	-	0.03	1.800	2.428
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 7	DSI 6	656000	3840	18.17	19.50	1.358	-	-	-0.08	1.730	2.350
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 7	DSI 6	656000	3840	18.10	19.50	1.380	-	-	-0.04	1.680	2.319
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 7	DSI 6	656000	3840	21.19	22.50	1.352	50	1.000	0.03	1.820	2.461
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	12mm	Ant 7	DSI 4	656000	3840	22.65	24.00	1.365	-	-	0.08	0.553	0.755
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	12mm	Ant 7	DSI 4	656000	3840	25.69	27.00	1.352	50	1.000	0.01	0.589	0.796
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	9mm	Ant 7	DSI 4	656000	3840	22.65	24.00	1.365	-	-	0.03	0.966	1.318
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	9mm	Ant 7	DSI 4	656000	3840	25.69	27.00	1.352	50	1.000	-0.08	0.998	1.349
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 4	656000	3840	22.59	24.00	1.384	-	-	-0.06	1.420	1.965
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 4	656000	3840	22.46	24.00	1.426	-	-	-0.03	1.460	2.081
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 4	656000	3840	21.58	23.00	1.387	-	-	0.03	1.160	1.609
	FR1 n77 Part 270 HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	DSI 4	656000	3840	25.36	27.00	1.459	50	1.000	-0.07	1.370	1.999
90	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	21.75	23.30	1.429	-	-	0.02	2.230	3.186
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	21.72	23.30	1.439	-	-	-0.11	2.090	3.007
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	21.48	23.00	1.419	-	-	0.03	1.940	2.753
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	24.81	26.30	1.409	50	1.000	-0.05	2.180	3.072
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 6	656000	3840	18.35	19.40	1.274	-	-	-0.01	0.711	0.905
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	DSI 6	656000	3840	18.31	19.40	1.285	-	-	-0.14	0.649	0.834
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	18.35	19.40	1.274	-	-	-0.01	1.940	2.471
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	18.31	19.40	1.285	-	-	-0.12	1.890	2.429
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	18.26	19.40	1.300	-	-	-0.17	1.870	2.431
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 5	DSI 6	656000	3840	21.32	22.40	1.282	50	1.000	0.01	1.920	2.462
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Back	8mm	Ant 5	DSI 4	656000	3840	22.79	24.00	1.321	-	-	-0.01	0.332	0.439
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	12mm	Ant 5	DSI 4	656000	3840	22.79	24.00	1.321	-	-	0.03	0.254	0.336
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	8mm	Ant 5	DSI 4	656000	3840	25.82	27.00	1.312	50	1.000	0.06	0.318	0.417
	FR1 n77 Part 270 HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	12mm	Ant 5	DSI 4	656000	3840	25.82	27.00	1.312	50	1.000	0.02	0.213	0.279

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																
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6+3(3)	Standalone	11	2462	18.83	20.50	1.469	100	1.000	-0.17	1.010	1.484
91	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6+3(3)	Standalone	11	2462	18.83	20.50	1.469	100	1.000	-0.1	1.180	1.733
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6+3(6)	Simultaneous	1	2412	16.67	18.50	1.524	100	1.000	0.06	0.623	0.949
	WLAN2.4GHz	802.11b 1Mbps	Back	8mm	Ant 6+3(3)	Full power	1	2412	18.83	20.50	1.469	100	1.000	0.06	0.356	0.523
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 6+3(3)	Full power	1	2412	18.83	20.50	1.469	100	1.000	0.01	0.369	0.542
92	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	Standalone	46	5230	18.12	20.00	1.542	100.00	1.000	0.07	2.020	3.114
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	Standalone	38	5190	15.75	17.50	1.496	100.00	1.000	0.01	1.520	2.274
	WLAN5.2GHz	802.11a 6Mbps	Front	0mm	Ant 5+4(5)	Standalone	48	5240	18.20	20.00	1.514	98.91	1.011	0.03	1.920	2.938
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(5)	Standalone	46	5230	18.12	20.00	1.542	100.00	1.000	0.1	1.530	2.359
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(5)	Standalone	38	5190	15.75	17.50	1.496	100.00	1.000	0.02	1.030	1.541
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(5)	Standalone	46	5230	18.12	20.00	1.542	100.00	1.000	0.04	1.480	2.282
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(5)	Standalone	38	5190	15.75	17.50	1.496	100.00	1.000	0.06	0.918	1.374
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	Simultaneous	42	5210	14.82	16.50	1.472	100.00	1.000	-0.02	0.593	0.873
	WLAN5.2GHz	802.11n-HT20 MCS0	Front	10mm	Ant 5+4(4)	Full power	40	5200	19.27	21.00	1.489	100.00	1.000	0.08	0.835	1.244
	WLAN5.2GHz	802.11n-HT20 MCS0	Back	8mm	Ant 5+4(4)	Full power	40	5200	19.27	21.00	1.489	100.00	1.000	0.01	0.522	0.777
	WLAN5.2GHz	802.11n-HT20 MCS0	Top Side	10mm	Ant 5+4(4)	Full power	40	5200	19.27	21.00	1.489	100.00	1.000	0.03	0.368	0.548
93	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5+4(4)	Standalone	60	5300	18.75	20.50	1.496	98.91	1.011	0.02	2.030	3.071
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5+4(4)	Standalone	52	5260	18.74	20.50	1.500	98.91	1.011	0.01	1.750	2.653
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5+4(4)	Standalone	56	5280	18.67	20.50	1.524	98.91	1.011	0.06	1.870	2.881
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5+4(5)	Standalone	64	5320	17.21	19.00	1.510	98.91	1.011	0.01	1.620	2.473
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	54	5270	18.21	20.00	1.510	100.00	1.000	0.06	1.880	2.839
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 5+4(4)	Standalone	60	5300	18.75	20.50	1.496	98.91	1.011	-0.11	1.360	2.057



FCC SAR Test Report

Report No. : FA3D1818

	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 5+4(4)	Standalone	56	5280	18.67	20.50	1.524	98.91	1.011	0.02	1.210	1.864
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 5+4(4)	Standalone	60	5300	18.75	20.50	1.496	98.91	1.011	-0.15	1.160	1.755
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+4(4)	Standalone	60	5300	18.75	20.50	1.496	98.91	1.011	-0.06	1.330	2.012
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5+4(4)	Standalone	56	5280	18.67	20.50	1.524	98.91	1.011	0.01	1.180	1.818
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Simultaneous	58	5290	14.58	16.50	1.556	100.00	1.000	-0.09	0.528	0.822
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	Simultaneous	58	5290	14.58	16.50	1.556	100.00	1.000	0.14	0.421	0.655
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Simultaneous	58	5290	14.58	16.50	1.556	100.00	1.000	-0.09	0.359	0.559
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	Simultaneous	58	5290	14.58	16.50	1.556	100.00	1.000	0.07	0.411	0.640
	WLAN5.3GHz	802.11a 6Mbps	Front	10mm	Ant 5+4(4)	Full power	60	5300	18.75	20.50	1.496	98.91	1.011	-0.08	0.866	1.310
	WLAN5.3GHz	802.11a 6Mbps	Back	8mm	Ant 5+4(4)	Full power	60	5300	18.75	20.50	1.496	98.91	1.011	-0.08	0.495	0.749
	WLAN5.3GHz	802.11a 6Mbps	Right Side	12mm	Ant 5+4(4)	Full power	60	5300	18.75	20.50	1.496	98.91	1.011	0.1	0.157	0.237
	WLAN5.3GHz	802.11a 6Mbps	Top Side	10mm	Ant 5+4(4)	Full power	60	5300	18.75	20.50	1.496	98.91	1.011	-0.18	0.351	0.531
94	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	138	5690	16.92	18.50	1.439	100.00	1.000	0.03	2.190	3.151
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	142	5710	18.87	20.50	1.455	100.00	1.000	0.02	1.980	2.882
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	106	5530	16.12	18.00	1.542	100.00	1.000	0.12	1.830	2.821
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	122	5610	16.70	18.50	1.514	100.00	1.000	-0.16	1.780	2.694
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(5)	Standalone	138	5690	16.92	18.50	1.439	100.00	1.000	-0.12	0.798	1.148
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(5)	Standalone	138	5690	16.92	18.50	1.439	100.00	1.000	-0.02	0.636	0.915
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(5)	Standalone	138	5690	16.92	18.50	1.439	100.00	1.000	-0.05	0.995	1.432
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	Simultaneous	106	5530	14.11	15.50	1.377	100.00	1.000	-0.09	0.602	0.829
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5+4(4)	Simultaneous	106	5530	14.11	15.50	1.377	100.00	1.000	-0.16	0.239	0.329
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5+4(4)	Simultaneous	106	5530	14.11	15.50	1.377	100.00	1.000	-0.07	0.191	0.263
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5+4(4)	Simultaneous	106	5530	14.11	15.50	1.377	100.00	1.000	0.11	0.298	0.410
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5+4(4)	Full power	142	5710	20.21	22.00	1.510	100.00	1.000	0.1	0.823	1.243
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	8mm	Ant 5+4(4)	Full power	142	5710	20.21	22.00	1.510	100.00	1.000	0.12	0.479	0.723
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	12mm	Ant 5+4(4)	Full power	142	5710	20.21	22.00	1.510	100.00	1.000	0.08	0.143	0.216
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+4(4)	Full power	142	5710	20.21	22.00	1.510	100.00	1.000	-0.17	0.386	0.583
95	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	159	5795	18.48	20.00	1.419	100.00	1.000	0.04	2.210	3.136
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	151	5755	18.36	20.00	1.459	100.00	1.000	0.06	2.010	2.932
	WLAN5.8GHz	802.11a 6Mbps	Front	0mm	Ant 5+4(4)	Standalone	149	5745	18.18	20.00	1.521	98.91	1.011	0.01	1.850	2.844
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+4(4)	Standalone	159	5795	18.48	20.00	1.419	100.00	1.000	-0.15	1.060	1.504
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+4(4)	Standalone	159	5795	18.48	20.00	1.419	100.00	1.000	-0.02	1.130	1.604
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(4)	Simultaneous	155	5775	13.25	15.00	1.496	100.00	1.000	0.01	0.575	0.860
	WLAN5.8GHz	802.11a 6Mbps	Front	10mm	Ant 5+4(5)	Full power	149	5745	18.74	20.50	1.500	98.91	1.011	-0.03	0.809	1.227
	WLAN5.8GHz	802.11a 6Mbps	Back	8mm	Ant 5+4(5)	Full power	149	5745	18.74	20.50	1.500	98.91	1.011	0.14	0.456	0.691
	WLAN5.8GHz	802.11a 6Mbps	Top Side	10mm	Ant 5+4(5)	Full power	149	5745	18.74	20.50	1.500	98.91	1.011	0.11	0.336	0.509



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1312	1712.4	18.14	19.20	1.276	-	-	-0.02	1.010	1	1.289
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1312	1712.4	18.14	19.20	1.276	-	-	0.03	0.995	1.015	1.270
1st	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	DSI 7	372000	1860	19.66	20.40	1.186	-	-	-0.11	1.090	1	1.292
2nd	FR1 n2	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 2	DSI 7	372000	1860	19.66	20.40	1.186	-	-	0.06	1.050	1.038	1.245
1st	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	18.65	19.50	1.216	-	-	-0.03	1.050	1	1.277
2nd	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	18.65	19.50	1.216	-	-	0.02	1.030	1.019	1.253
1st	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	0.03	1.000	1	1.274
2nd	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI 7	656000	3840	20.25	21.30	1.274	-	-	0.06	0.985	1.015	1.254
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4233	846.6	22.18	24.00	1.521	-	-	0.02	0.833	1	1.267
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4233	846.6	22.18	24.00	1.521	-	-	0.06	0.825	1.010	1.254
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	Standalone	6	2437	17.71	19.50	1.510	100	1.000	-0.04	0.860	1	1.299
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	Standalone	6	2437	17.71	19.50	1.510	100	1.000	0.06	0.855	1.006	1.291
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Standalone	155	5775	13.13	14.50	1.371	100	1.000	0.06	0.811	1	1.112
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Standalone	155	5775	13.13	14.50	1.371	100	1.000	0.01	0.800	1.014	1.097

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1312	1712.4	21.85	22.80	1.245	-	-	0.01	2.520	1	3.136
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	DSI 6	1312	1712.4	21.85	22.80	1.245	-	-	0.03	2.490	1.012	3.099
1st	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	18700	1860	22.60	24.00	1.380	-	-	-0.02	2.300	1	3.175
2nd	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 6	18700	1860	22.60	24.00	1.380	-	-	0.06	2.260	1.018	3.120
1st	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	20.31	21.30	1.256	-	-	-0.08	2.510	1	3.153
2nd	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	20.31	21.30	1.256	-	-	0.06	2.480	1.012	3.115
1st	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	56640	3690	19.56	20.40	1.213	62.9	1.006	-0.06	2.020	1	2.466
2nd	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 7	DSI 6	56640	3690	19.56	20.40	1.213	62.9	1.006	0.01	2.000	1.010	2.441
1st	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	21.75	23.30	1.429	-	-	0.02	2.230	1	3.186
2nd	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 8	DSI 4	656000	3840	21.75	23.30	1.429	-	-	0.05	2.210	1.009	3.158
1st	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	Standalone	46	5230	18.12	20.00	1.542	100.00	1.000	0.07	2.020	1	3.114
2nd	WLAN5.2GHz	-	-	-	-	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(5)	Standalone	46	5230	18.12	20.00	1.542	100.00	1.000	0.06	2.000	1.010	3.083
1st	WLAN5.3GHz	-	-	-	-	802.11a 6Mbps	Front	0mm	Ant 5+4(4)	Standalone	60	5300	18.75	20.50	1.496	98.91	1.011	0.02	2.030	1	3.071
2nd	WLAN5.3GHz	-	-	-	-	802.11a 6Mbps	Front	0mm	Ant 5+4(4)	Standalone	60	5300	18.75	20.50	1.496	98.91	1.011	0.05	2.000	1.015	3.025
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	138	5690	16.92	18.50	1.439	100.00	1.000	0.03	2.190	1	3.151
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT80 MCS0	Front	0mm	Ant 5+4(5)	Standalone	138	5690	16.92	18.50	1.439	100.00	1.000	0.06	2.160	1.014	3.108
1st	WLAN5.8GHz	-	-	-	-	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	159	5795	18.48	20.00	1.419	100.00	1.000	0.04	2.210	1	3.136
2nd	WLAN5.8GHz	-	-	-	-	802.11n-HT40 MCS0	Front	0mm	Ant 5+4(4)	Standalone	159	5795	18.48	20.00	1.419	100.00	1.000	0.03	2.190	1.009	3.108

General Note:

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

16.6 TDD 5G NR<E Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41 and TDD n77. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE B41-Linearity Data for Head Ant 2			LTE B41-Linearity Data for Head Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	15.80	17.40
Reported 1g SAR (W/kg)	0.116	0.152	Reported 1g SAR (W/kg)	0.897	0.822
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	193.41	Frame Averaged (mW)	24.07	23.80
Linearity SAR (W/kg)	0.158		Linearity SAR (W/kg)	0.887	
% deviation from expected linearity		-3.99%	% deviation from expected linearity		-7.32%
LTE B41-Linearity Data for Body-worn Ant 2			LTE B41-Linearity Data for Body-worn Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.10	Maximum Tune up Power (dBm)	18.40	20.00
Reported 1g SAR (W/kg)	1.281	1.239	Reported 1g SAR (W/kg)	0.895	0.862
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12	Frame Averaged (mW)	43.79	43.30
Linearity SAR (W/kg)	1.267		Linearity SAR (W/kg)	0.885	
% deviation from expected linearity		-2.18%	% deviation from expected linearity		-2.59%
LTE B41-Linearity Data for Hotspot Ant 2			LTE B41-Linearity Data for Hotspot Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	24.10	Maximum Tune up Power (dBm)	13.90	15.50
Reported 1g SAR (W/kg)	1.287	1.260	Reported 1g SAR (W/kg)	0.634	0.618
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	112.57	111.30	Frame Averaged (mW)	15.54	15.36
Linearity SAR (W/kg)	1.273		Linearity SAR (W/kg)	0.627	
% deviation from expected linearity		-0.98%	% deviation from expected linearity		-1.41%
LTE B41-Linearity Data for Extremity Ant 2			LTE B41-Linearity Data for Extremity Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	25.50	Maximum Tune up Power (dBm)	20.50	22.10
Reported 10g SAR (W/kg)	2.922	3.047	Reported 10g SAR (W/kg)	2.475	2.388
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	153.63	Frame Averaged (mW)	71.02	70.22
Linearity SAR (W/kg)	3.168		Linearity SAR (W/kg)	2.447	
% deviation from expected linearity		-3.81%	% deviation from expected linearity		-2.42%
FR1 n77 Part 270 (HPUE)-Linearity Data for Head Ant 7			FR1 n77 Part 270 (HPUE)-Linearity Data for Head Ant 4		
	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)	17.70	20.70	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.881	0.837	Reported 1g SAR (W/kg)	0.845	0.798
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	58.88	58.74	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.879		Linearity SAR (W/kg)	0.843	
% deviation from expected linearity		-4.77%	% deviation from expected linearity		-5.34%
FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 7			FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 4		
	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)	19.50	22.50	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.875	0.854	Reported 1g SAR (W/kg)	0.882	0.830
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%

Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.873		Linearity SAR (W/kg)	0.880	
% deviation from expected linearity		-2.17%	% deviation from expected linearity		-5.67%
FR1 n77 Part 270 (HPUE)-Linearity Data for Hotspot Ant 7			FR1 n77 Part 270 (HPUE)-Linearity Data for Hotspot Ant 4		
	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)	15.40	18.40	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.629	0.583	Reported 1g SAR (W/kg)	0.615	0.600
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	34.67	34.59	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.628		Linearity SAR (W/kg)	0.614	
% deviation from expected linearity		-7.09%	% deviation from expected linearity		-2.21%
FR1 n77 Part 270 (HPUE)-Linearity Data for Extremity Ant 7			FR1 n77 Part 270 (HPUE)-Linearity Data for Extremity Ant 4		
	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)	19.50	22.50	Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	2.428	2.461	Reported 10g SAR (W/kg)	2.081	1.999
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	89.13	88.91	Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.422		Linearity SAR (W/kg)	2.076	
% deviation from expected linearity		1.60%	% deviation from expected linearity		-3.71%

LTE B41-Linearity Data for Head Ant 10			LTE B41-Linearity Data for Head Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.30	24.90	Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.891	0.887	Reported 1g SAR (W/kg)	0.141	0.185
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	135.33	133.81	Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.881		Linearity SAR (W/kg)	0.192	
% deviation from expected linearity		0.68%	% deviation from expected linearity		-3.87%
LTE B41-Linearity Data for Body-worn Ant 10			LTE B41-Linearity Data for Body-worn Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	23.60	Maximum Tune up Power (dBm)	22.80	24.40
Reported 1g SAR (W/kg)	0.787	0.785	Reported 1g SAR (W/kg)	1.304	1.250
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	100.32	99.19	Frame Averaged (mW)	120.62	119.26
Linearity SAR (W/kg)	0.778		Linearity SAR (W/kg)	1.289	
% deviation from expected linearity		0.88%	% deviation from expected linearity		-3.05%
LTE B41-Linearity Data for Hotspot Ant 10			LTE B41-Linearity Data for Hotspot Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	19.20	20.80	Maximum Tune up Power (dBm)	19.90	21.50
Reported 1g SAR (W/kg)	0.625	0.616	Reported 1g SAR (W/kg)	1.302	1.282
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	52.65	52.06	Frame Averaged (mW)	61.86	61.16
Linearity SAR (W/kg)	0.618		Linearity SAR (W/kg)	1.287	
% deviation from expected linearity		-0.32%	% deviation from expected linearity		-0.42%
LTE B41-Linearity Data for Extremity Ant 10			LTE B41-Linearity Data for Extremity Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	23.60	Maximum Tune up Power (dBm)	22.50	24.10
Reported 10g SAR (W/kg)	2.483	2.293	Reported 10g SAR (W/kg)	3.155	3.143
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	100.32	99.19	Frame Averaged (mW)	112.57	111.30
Linearity SAR (W/kg)	2.455		Linearity SAR (W/kg)	3.119	
% deviation from expected linearity		-6.60%	% deviation from expected linearity		0.75%
FR1 n77 Part 270 (HPUE)-Linearity Data for Head Ant 8			FR1 n77 Part 270 (HPUE)-Linearity Data for Head Ant 5		
	FR1 n77	FR1 n77		FR1 n77	FR1 n77

	(Power Class 3)	(Power Class 2)		(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	15.60	18.60
Reported 1g SAR (W/kg)	0.264	0.253	Reported 1g SAR (W/kg)	0.854	0.886
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	36.31	36.22
Linearity SAR (W/kg)	0.263		Linearity SAR (W/kg)	0.852	
% deviation from expected linearity		-3.94%	% deviation from expected linearity		3.99%
FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 8			FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 5		
	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)	23.30	26.30	Maximum Tune up Power (dBm)	17.80	20.80
Reported 1g SAR (W/kg)	0.544	0.510	Reported 1g SAR (W/kg)	0.877	0.819
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	213.80	213.29	Frame Averaged (mW)	60.26	60.11
Linearity SAR (W/kg)	0.543		Linearity SAR (W/kg)	0.875	
% deviation from expected linearity		-6.03%	% deviation from expected linearity		-6.39%
FR1 n77 Part 270 (HPUE)-Linearity Data for Hotspot Ant 8			FR1 n77 Part 270 (HPUE)-Linearity Data for Hotspot Ant 5		
	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)	21.30	24.30	Maximum Tune up Power (dBm)	13.50	16.50
Reported 1g SAR (W/kg)	1.274	1.236	Reported 1g SAR (W/kg)	0.629	0.609
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	134.90	134.58	Frame Averaged (mW)	22.39	22.33
Linearity SAR (W/kg)	1.271		Linearity SAR (W/kg)	0.628	
% deviation from expected linearity		-2.75%	% deviation from expected linearity		-2.95%
FR1 n77 Part 270 (HPUE)-Linearity Data for Extremity Ant 8			FR1 n77 Part 270 (HPUE)-Linearity Data for Extremity Ant 5		
	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)	23.30	26.30	Maximum Tune up Power (dBm)	19.40	22.40
Reported 10g SAR (W/kg)	3.186	3.072	Reported 10g SAR (W/kg)	2.471	2.462
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	213.80	213.29	Frame Averaged (mW)	87.10	86.89
Linearity SAR (W/kg)	3.178		Linearity SAR (W/kg)	2.465	
% deviation from expected linearity		-3.35%	% deviation from expected linearity		-0.13%

Sensor off

LTE B41-Linearity Data for Body-worn Ant 2			LTE B41-Linearity Data for Body-worn Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.266	0.376	Reported 1g SAR (W/kg)	0.456	0.591
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	193.41	Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.363		Linearity SAR (W/kg)	0.622	
% deviation from expected linearity		3.57%	% deviation from expected linearity		-5.04%
LTE B41-Linearity Data for Extremity Ant 2			LTE B41-Linearity Data for Extremity Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	23.00	26.00
Reported 10g SAR (W/kg)	0.208	0.287	Reported 10g SAR (W/kg)	0.982	1.267
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	193.41	Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.284		Linearity SAR (W/kg)	1.340	
% deviation from expected linearity		1.10%	% deviation from expected linearity		-5.47%
FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 5			FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 7		
	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)	0.447	0.428	Reported 1g SAR (W/kg)	0.169	0.161
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)	0.446		Linearity SAR (W/kg)	0.169	
% deviation from expected linearity		-4.02%	% deviation from expected linearity		-4.51%
FR1 n77 Part 270 (HPUE)-Linearity Data for Extremity Ant 5			FR1 n77 Part 270 (HPUE)-Linearity Data for Extremity Ant 7		
	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 10g SAR (W/kg)	0.439	0.417	Reported 10g SAR (W/kg)	1.318	1.349
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)	0.438		Linearity SAR (W/kg)	1.315	
% deviation from expected linearity		-4.79%	% deviation from expected linearity		2.60%

LTE B41-Linearity Data for Body-worn Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.124	0.174
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.169	
% deviation from expected linearity		2.81%
LTE B41-Linearity Data for Extremity Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 10g SAR (W/kg)	0.148	0.201
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.202	
% deviation from expected linearity		-0.49%
FR1 n77 Part 270 (HPUE)-Linearity Data for Body-worn Ant 4		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.516	0.503
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.515	
% deviation from expected linearity		-2.29%

17. Simultaneous Transmission Analysis

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

General Note:

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

- v) The SPLSR calculated results please refer to section 17.6.
18. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support FR2 or other MPE field measurement, therefore section 17 in the SAR report has no TER analysis according to KDB 987594 requirement.
19. The simultaneous transmission analysis, considering WPT highest SAR is less than 0.0001 W/kg, the contribution of the reverse charging to the total TER can be neglected.

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

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

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,

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

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

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

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

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

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

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

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

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

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

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

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

17.2 Sub6 Antenna Groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating below conditions for all exposure positions under each DSI for a given exposure category.

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

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

Antenna Group 0 (AG0)	ANT1 & ANT4 & ANT5 & ANT7 & ANT10
Antenna Group 1 (AG1)	ANT0 & ANT2 & ANT8

The conditions are verified through the following criterias:

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

For summed SAR results and SPLSR detailed analysis, please refer to section 17.3 / 17.4 / 17.5 / 17.6 / 17.7 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.3 Head Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum report SAR>:

Test Position	Ant1	Ant4	Ant5	Ant7	Ant10	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	0.889	0.489	0.326	0.888	0.495	0.889
Right Tilted	0.897	0.534	0.323	0.290	0.166	0.897
Left Cheek	0.569	0.843	0.886	0.402	0.891	0.891
Left Tilted	0.626	0.845	0.644	0.115	0.086	0.845

<AG1 maximum report SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	0.163	0.178	0.264	0.264
Right Tilted	0.161	0.111	0.106	0.161
Left Cheek	0.296	0.157	0.205	0.296
Left Tilted	0.138	0.099	0.156	0.156

<WLAN+BT Worse-case SAR>:

NO	1	2	3	4	5					
Test Position	WLAN2.4GHz Ant 3+6	WLAN5GHz Ant 4+5	Bluetooth Ant 3	Bluetooth Ant 6	WLAN6GHz Ant 4+5	2+3	2+4	3+5	4+5	Wlan+BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	0.236	0.185	0.166	0.057	0.154	0.351	0.242	0.320	0.211	0.351
Right Tilted	0.256	0.194	0.197	0.016	0.174	0.391	0.210	0.371	0.190	0.391
Left Cheek	0.378	0.364	0.280	0.095	0.389	0.644	0.459	0.669	0.484	0.669
Left Tilted	0.330	0.286	0.244	0.029	0.337	0.530	0.315	0.581	0.366	0.581

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

Test Position	AG0	AG1	Wlan/BT worst case	AG0+AG1+Wlan +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	0.889	0.264	0.351	1.50
Right Tilted	0.897	0.161	0.391	1.45
Left Cheek	0.891	0.296	0.669	1.86
Left Tilted	0.845	0.156	0.581	1.58

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

Left Cheek					
Ant combination	AG1	AG0	Wlan+BT worst case	AG0+AG1+wlan +BT worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.296	0.569	0.669	1.53	-
Ant0-Ant4	0.296	0.843	0.669	1.81	Case 1
Ant0-Ant5	0.296	0.886	0.669	1.85	Case 2
Ant0-Ant7	0.296	0.402	0.669	1.37	-
Ant0-Ant10	0.296	0.891	0.669	1.86	Case 3
Ant2-Ant1	0.157	0.569	0.669	1.40	-
Ant2-Ant4	0.157	0.843	0.669	1.67	Case 4
Ant2-Ant5	0.157	0.886	0.669	1.71	Case 5
Ant2-Ant7	0.157	0.402	0.669	1.23	-
Ant2-Ant10	0.157	0.891	0.669	1.72	Case 6
Ant8-Ant1	0.205	0.569	0.669	1.44	-
Ant8-Ant4	0.205	0.843	0.669	1.72	Case 7
Ant8-Ant5	0.205	0.886	0.669	1.76	Case 8
Ant8-Ant7	0.205	0.402	0.669	1.28	-
Ant8-Ant10	0.205	0.891	0.669	1.77	Case 9

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>:

NO	1	2	3	4	1+2	1+3	2+4	3+4
Test Position	WLAN5GHz Ant 4+5	Bluetooth Ant 3	Bluetooth Ant 6	WLAN6GHz Ant 4+5				
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	0.622	0.289	0.097	0.154	0.91	0.72	0.44	0.25
Right Tilted	0.589	0.343	0.027	0.174	0.93	0.62	0.52	0.20
Left Cheek	1.106	0.487	0.160	0.389	1.59	1.27	0.88	0.55
Left Tilted	0.919	0.424	0.050	0.337	1.34	0.97	0.76	0.39

17.4 Hotspot Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum report SAR>:

Test Position	Ant1	Ant4	Ant5	Ant7	Ant10	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.447	0.134	0.093	0.327	0.262	0.447
Back	0.631	0.615	0.526	0.485	0.351	0.631
Left Side	0.621	0.008	0.007	0.632	0.625	0.632
Right Side	0.122	0.125	0.629	0.012	0.015	0.629
Top Side	0.634	0.263	0.094	0.065	0.035	0.634
Bottom Side						

<AG1 maximum report SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.910	1.253	0.521	1.253
Back	1.267	0.973	0.618	1.267
Left Side	0.870	0.441	0.098	0.870
Right Side	0.150	0.774	1.274	1.274
Top Side				
Bottom Side	1.302	1.293	0.480	1.302

<WLAN+BT Worse-case SAR>:

NO	1	2	3	4	2+3	2+4	Wlan+BT worse case
Test Position	WLAN2.4GHz Ant 3+6	WLAN5GHz Ant 4+5	Bluetooth Ant 3	Bluetooth Ant 6	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.301	0.532	0.196	0.086	0.728	0.618	0.728
Back	0.425	0.638	0.210	0.159	0.848	0.797	0.848
Left Side	0.050	0.047	0.028	0.013	0.075	0.060	0.075
Right Side	0.130	0.228	0.066	0.285	0.294	0.513	0.513
Top Side	0.601	0.363	0.282	0.027	0.645	0.390	0.645
Bottom Side							

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

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+Wlan +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.447	1.253	0.728	2.43
Back	0.631	1.267	0.848	2.75
Left Side	0.632	0.870	0.075	1.58
Right Side	0.629	1.274	0.513	2.42
Top Side	0.634		0.645	1.28
Bottom Side		1.302		1.30

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

Front					
Ant combination	AG1	AG0	Wlan+BT worst case	AG0+AG1+wlan +BT worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Ant0-Ant1	0.910	0.447	0.728	2.09	Case 1
Ant0-Ant4	0.910	0.134	0.728	1.77	Case 2
Ant0-Ant5	0.910	0.093	0.728	1.73	Case 3
Ant0-Ant7	0.910	0.327	0.728	1.97	Case 4
Ant0-Ant10	0.910	0.262	0.728	1.90	Case 5
Ant2-Ant1	1.253	0.447	0.728	2.43	Case 6
Ant2-Ant4	1.253	0.134	0.728	2.12	Case 7
Ant2-Ant5	1.253	0.093	0.728	2.07	Case 8
Ant2-Ant7	1.253	0.327	0.728	2.31	Case 9
Ant2-Ant10	1.253	0.262	0.728	2.24	Case 10
Ant8-Ant1	0.521	0.447	0.728	1.70	Case 11
Ant8-Ant4	0.521	0.134	0.728	1.38	-
Ant8-Ant5	0.521	0.093	0.728	1.34	-
Ant8-Ant7	0.521	0.327	0.728	1.58	-
Ant8-Ant10	0.521	0.262	0.728	1.51	-

Back					
Ant combination	AG1	AG0	Wlan+BT worst case	AG0+AG1+wlan +BT worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Ant0-Ant1	1.267	0.631	0.848	2.75	Case 12
Ant0-Ant4	1.267	0.615	0.848	2.73	Case 13
Ant0-Ant5	1.267	0.526	0.848	2.64	Case 14
Ant0-Ant7	1.267	0.485	0.848	2.60	Case 15
Ant0-Ant10	1.267	0.351	0.848	2.47	Case 16
Ant2-Ant1	0.973	0.631	0.848	2.45	Case 17
Ant2-Ant4	0.973	0.615	0.848	2.44	Case 18
Ant2-Ant5	0.973	0.526	0.848	2.35	Case 19
Ant2-Ant7	0.973	0.485	0.848	2.31	Case 20
Ant2-Ant10	0.973	0.351	0.848	2.17	Case 21
Ant8-Ant1	0.618	0.631	0.848	2.10	Case 22
Ant8-Ant4	0.618	0.615	0.848	2.08	Case 23
Ant8-Ant5	0.618	0.526	0.848	1.99	Case 24
Ant8-Ant7	0.618	0.485	0.848	1.95	Case 25
Ant8-Ant10	0.618	0.351	0.848	1.82	Case 26

Right side					
Ant combination	AG1	AG0	Wlan+BT worst case	AG0+AG1+wlan +BT worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Ant0-Ant1	0.150	0.122	0.513	0.79	-
Ant0-Ant4	0.150	0.125	0.513	0.79	-
Ant0-Ant5	0.150	0.629	0.513	1.29	-
Ant0-Ant7	0.150	0.012	0.513	0.68	-
Ant0-Ant10	0.150	0.015	0.513	0.68	-
Ant2-Ant1	0.774	0.122	0.513	1.41	-
Ant2-Ant4	0.774	0.125	0.513	1.41	-
Ant2-Ant5	0.774	0.629	0.513	1.92	Case 27
Ant2-Ant7	0.774	0.012	0.513	1.30	-
Ant2-Ant10	0.774	0.015	0.513	1.30	-
Ant8-Ant1	1.274	0.122	0.513	1.91	Case 28

Ant8-Ant4	1.274	0.125	0.513	1.91	Case 29
Ant8-Ant5	1.274	0.629	0.513	2.42	Case 30
Ant8-Ant7	1.274	0.012	0.513	1.80	Case 31
Ant8-Ant10	1.274	0.015	0.513	1.80	Case 32

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>:

NO	1	2	3		
Test Position	WLAN5GHz Ant 4+5	Bluetooth Ant 3	Bluetooth Ant 6	1+2	1+3
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.532	0.196	0.086	0.73	0.62
Back	0.638	0.210	0.159	0.85	0.80
Left Side	0.047	0.028	0.013	0.08	0.06
Right Side	0.228	0.066	0.285	0.29	0.51
Top Side	0.363	0.282	0.027	0.65	0.39
Bottom Side				0.00	0.00

17.5 Body-Worn Accessory Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum report SAR>:

Test Position	Ant1	Ant4	Ant5	Ant7	Ant10	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.875	0.192	0.569	0.602	0.578	0.875
Back	0.895	0.882	0.877	0.875	0.787	0.895

<AG1 maximum report SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	1.166	1.299	0.537	1.299
Back	1.304	1.286	0.544	1.304

<WLAN+BT Worse-case SAR>:

NO	1	2	3	4	5	2+3	2+4	3+5	4+5	Wlan+BT worse case
	WLAN2.4GHz Ant 3+6	WLAN5GHz Ant 4+5	Bluetooth Ant 3	Bluetooth Ant 6	WLAN6GHz Ant 4+5					
Test Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.248	0.275	0.257	0.155	0.172	0.532	0.430	0.429	0.327	0.532
Back	0.374	0.389	0.275	0.288	0.066	0.664	0.677	0.341	0.354	0.677

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

Test Position	AG0	AG1	Wlan+BT worst case	AG0+AG1+wlan +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.875	1.299	0.532	2.71
Back	0.895	1.304	0.677	2.88

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

Front					
Ant combination	AG1	AG0	Wlan+BT worst case	AG0+AG1+wlan +BT worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Ant0-Ant1	1.166	0.875	0.532	2.57	Case 1
Ant0-Ant4	1.166	0.192	0.532	1.89	Case 2
Ant0-Ant5	1.166	0.569	0.532	2.27	Case 3
Ant0-Ant7	1.166	0.602	0.532	2.30	Case 4
Ant0-Ant10	1.166	0.578	0.532	2.28	Case 5
Ant2-Ant1	1.299	0.875	0.532	2.71	Case 6
Ant2-Ant4	1.299	0.192	0.532	2.02	Case 7
Ant2-Ant5	1.299	0.569	0.532	2.40	Case 8
Ant2-Ant7	1.299	0.602	0.532	2.43	Case 9
Ant2-Ant10	1.299	0.578	0.532	2.41	Case 10
Ant8-Ant1	0.537	0.875	0.532	1.94	Case 11
Ant8-Ant4	0.537	0.192	0.532	1.26	-
Ant8-Ant5	0.537	0.569	0.532	1.64	Case 27
Ant8-Ant7	0.537	0.602	0.532	1.67	Case 28
Ant8-Ant10	0.537	0.578	0.532	1.65	Case 29

Back					
Ant combination	AG1	AG0	Wlan+BT worst case	AG0+AG1+wlan +BT worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
Ant0-Ant1	1.304	0.895	0.677	2.88	Case 12
Ant0-Ant4	1.304	0.882	0.677	2.86	Case 13
Ant0-Ant5	1.304	0.877	0.677	2.86	Case 14
Ant0-Ant7	1.304	0.875	0.677	2.86	Case 15
Ant0-Ant10	1.304	0.787	0.677	2.77	Case 16
Ant2-Ant1	1.286	0.895	0.677	2.86	Case 17
Ant2-Ant4	1.286	0.882	0.677	2.85	Case 18
Ant2-Ant5	1.286	0.877	0.677	2.84	Case 19
Ant2-Ant7	1.286	0.875	0.677	2.84	Case 20
Ant2-Ant10	1.286	0.787	0.677	2.75	Case 21
Ant8-Ant1	0.544	0.895	0.677	2.12	Case 22
Ant8-Ant4	0.544	0.882	0.677	2.10	Case 23
Ant8-Ant5	0.544	0.877	0.677	2.10	Case 24
Ant8-Ant7	0.544	0.875	0.677	2.10	Case 25
Ant8-Ant10	0.544	0.787	0.677	2.01	Case 26

<Simultaneous Transmission analysis of WLAN/BT only without WWAN>:

NO	1	2	3	4	1+2	1+3	2+4	3+4	Wlan+BT worse case
Test Position	WLAN5GHz Ant 4+5	Bluetooth Ant 3	Bluetooth Ant 6	WLAN6GHz Ant 4+5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Front	0.844	0.257	0.155	0.172	1.10	1.00	0.43	0.33	1.10
Back	1.190	0.275	0.288	0.066	1.47	1.48	0.34	0.35	1.48

17.6 Product specific 10g SAR Exposure Conditions

Remark:

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

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

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

<AG0 maximum report SAR>:

Test Position	Ant1	Ant4	Ant5	Ant7	Ant10	MAX	MAX
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Front	2.372					2.372	2.372
Back	2.483	2.081	0.905	1.821		2.483	2.483
Left Side	1.850			2.466	2.483	2.466	2.483
Right Side			2.471			2.471	2.471
Top Side	2.491					2.491	2.491
Bottom Side							

<AG1 maximum report SAR>:

Test Position	Ant0	Ant2	Ant8	MAX
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Front	1.493	3.138		3.138
Back	1.909	2.153		2.153
Left Side				
Right Side			3.186	3.186
Top Side				
Bottom Side	3.198	3.207		3.207

<WLAN+NFC Worse-case SAR>:

NO	1	2	3	4	1+4	2+4	3+4	Wlan+NFC worse case
Test Position	WLAN2.4GHz Ant 3+6	WLAN5GHz Ant 4+5	WLAN6GHz Ant 4+5	NFC				10g SAR (W/kg)
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	
Front		0.873	0.125	0.002	0.002	0.875	0.127	0.875
Back		0.655	0.078	0.020	0.020	0.675	0.098	0.675
Left Side			0.002	0.001	0.001	0.001	0.003	0.003
Right Side		0.559	0.104	0.001	0.001	0.560	0.105	0.560
Top Side	0.949	0.640	0.114	0.001	0.950	0.641	0.115	0.950
Bottom Side				0.001	0.001	0.001	0.001	0.001

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

Test Position	AG0	AG1	Wlan+NFC worse case	AG0+AG1+wlan+NFC worse case
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front	2.372	3.138	0.875	6.39
Back	2.483	2.153	0.675	5.31
Left Side	2.483		0.003	2.49
Right Side	2.471	3.186	0.560	6.22
Top Side	2.491		0.950	3.44
Bottom Side		3.207	0.001	3.21

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

Front					
Ant combination	AG1	AG0	Wlan+NFC worse case	AG0+AG1+wlan+NFC worse case	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	
Ant0-Ant1	1.493	2.372	0.875	4.74	Case 1
Ant0-Ant4	1.493		0.875	2.37	-
Ant0-Ant5	1.493		0.875	2.37	-
Ant0-Ant7	1.493		0.875	2.37	-
Ant0-Ant10	1.493		0.875	2.37	-
Ant2-Ant1	3.138	2.372	0.875	6.39	Case 2
Ant2-Ant4	3.138		0.875	4.01	Case 3
Ant2-Ant5	3.138		0.875	4.01	Case 4
Ant2-Ant7	3.138		0.875	4.01	Case 5
Ant2-Ant10	3.138		0.875	4.01	Case 6
Ant8-Ant1		2.372	0.875	3.25	-
Ant8-Ant4			0.875	0.88	-
Ant8-Ant5			0.875	0.88	-
Ant8-Ant7			0.875	0.88	-
Ant8-Ant10			0.875	0.88	-
Back					
Ant combination	AG1	AG0	Wlan+NFC worse case	AG0+AG1+wlan+NFC worse case	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	
Ant0-Ant1	1.909	2.483	0.675	5.07	Case 7
Ant0-Ant4	1.909	2.081	0.675	4.67	Case 8
Ant0-Ant5	1.909	0.905	0.675	3.49	-
Ant0-Ant7	1.909	1.821	0.675	4.41	Case 9
Ant0-Ant10	1.909		0.675	2.58	-
Ant2-Ant1	2.153	2.483	0.675	5.31	Case 10
Ant2-Ant4	2.153	2.081	0.675	4.91	Case 11
Ant2-Ant5	2.153	0.905	0.675	3.73	-
Ant2-Ant7	2.153	1.821	0.675	4.65	Case 12
Ant2-Ant10	2.153		0.675	2.83	-
Ant8-Ant1		2.483	0.675	3.16	-
Ant8-Ant4		2.081	0.675	2.76	-
Ant8-Ant5		0.905	0.675	1.58	-
Ant8-Ant7		1.821	0.675	2.50	-
Ant8-Ant10			0.675	0.68	-

Right side					
Ant combination	AG1	AG0	Wlan+NFC worse case	AG0+AG1+wlan+NFC worse case	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	
Ant0-Ant1			0.560	0.56	-
Ant0-Ant4			0.560	0.56	-
Ant0-Ant5		2.471	0.560	3.03	-
Ant0-Ant7			0.560	0.56	-
Ant0-Ant10			0.560	0.56	-
Ant2-Ant1			0.560	0.56	-
Ant2-Ant4			0.560	0.56	-
Ant2-Ant5		2.471	0.560	3.03	-
Ant2-Ant7			0.560	0.56	-
Ant2-Ant10			0.560	0.56	-
Ant8-Ant1	3.186		0.560	3.75	-
Ant8-Ant4	3.186		0.560	3.75	-
Ant8-Ant5	3.186	2.471	0.560	6.22	Case 13
Ant8-Ant7	3.186		0.560	3.75	-
Ant8-Ant10	3.186		0.560	3.75	-

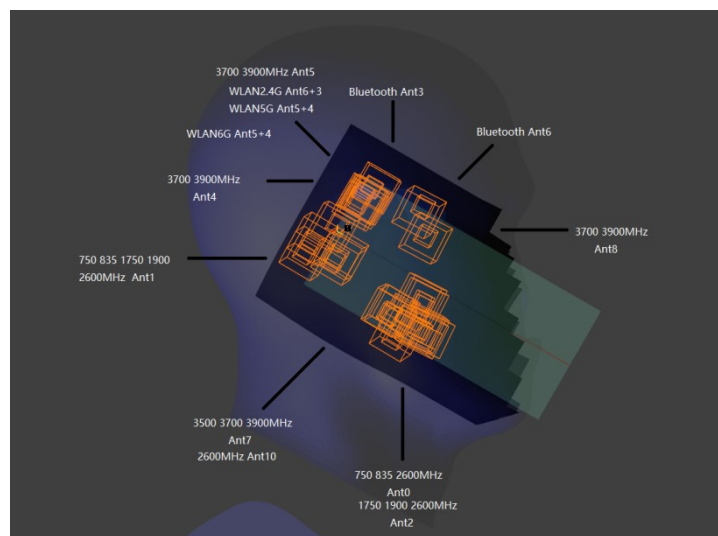
<Simultaneous Transmission analysis of WLAN +NFC only without WWAN>:

NO	2	3	4	2+4	3+4
Test Position	WLAN5GHz Ant 4+5	WLAN6GHz Ant 4+5	NFC		
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front	3.151	0.125	0.002	3.15	0.13
Back	2.359	0.078	0.020	2.38	0.10
Left Side		0.002	0.001	0.00	0.00
Right Side	1.755	0.104	0.001	1.76	0.11
Top Side	2.282	0.114	0.001	2.28	0.12
Bottom Side			0.001	0.00	0.00

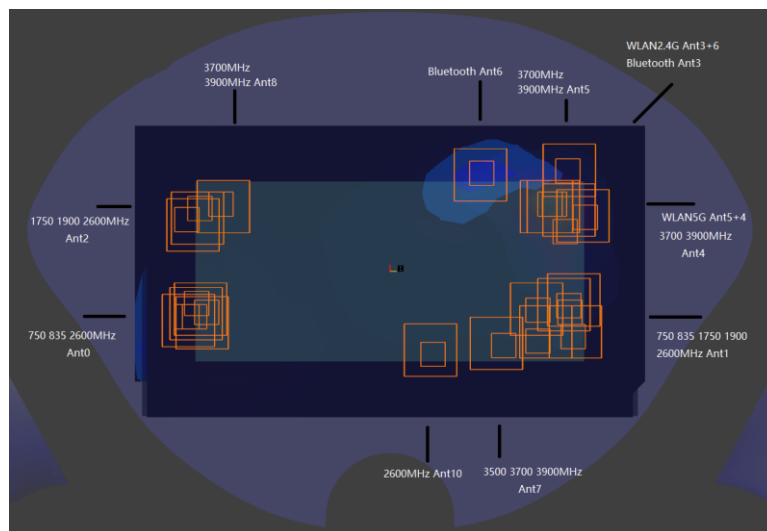
17.7 SPLSR Evaluation and Analysis

General Note:

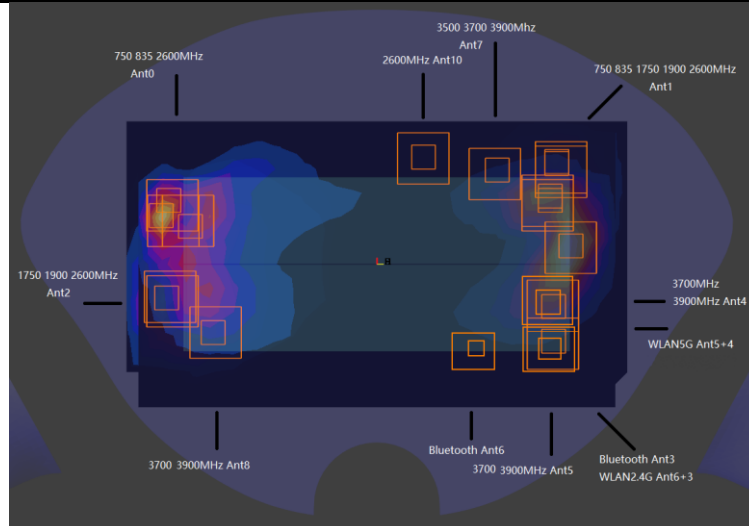
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, AG0 was summed algebraically with the BT/WIFI Antenna 3/4/5/6 and NFC antenna for the purposes of hybrid SPLSR combination and they are located at the Top of the device.
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
5. The axis peak locations refer to Section 17.8.



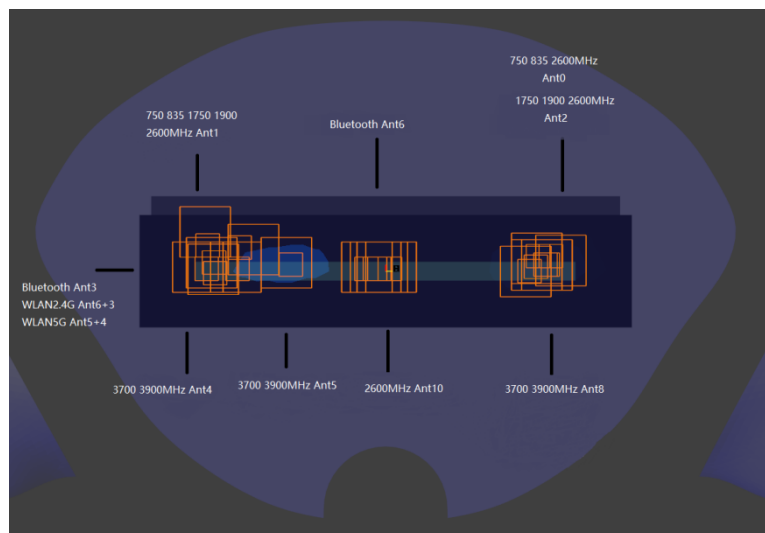
Head WWAN+WLAN+BT Left Cheek 0mm



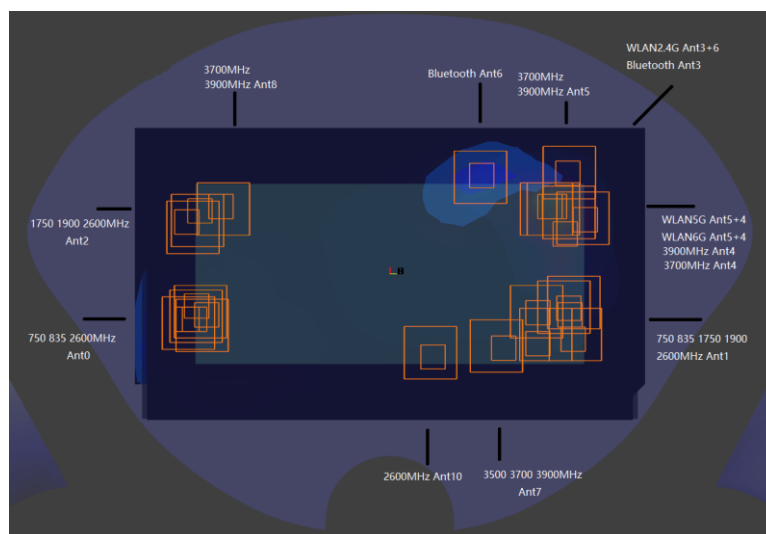
Hotspot WWAN+WLAN+BT Back 5mm



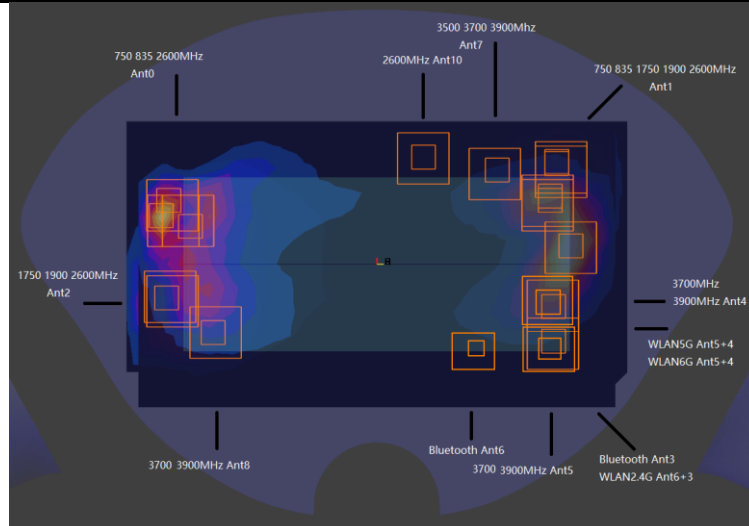
Hotspot WWAN+WLAN+BT Front 5mm



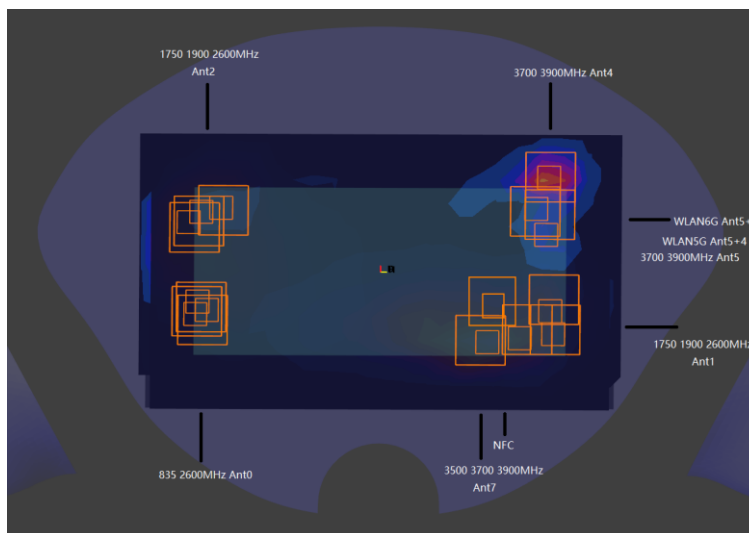
Hotspot WWAN+WLAN+BT Right Side 5mm



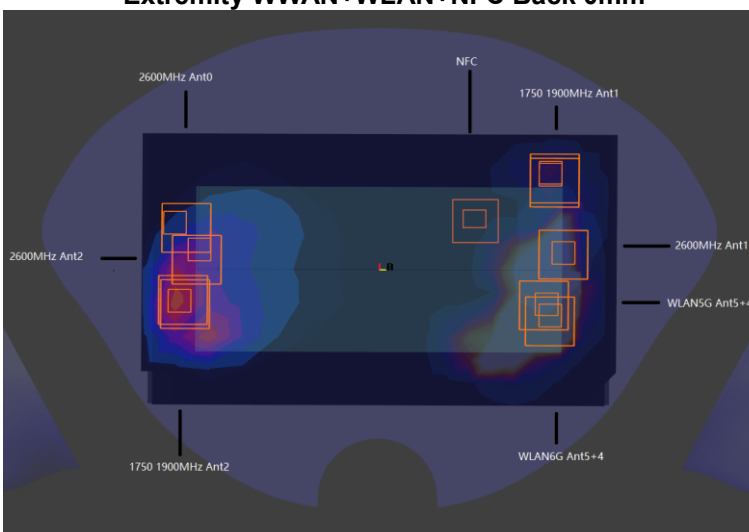
Body-worn WWAN+WLAN+BT Back 5mm



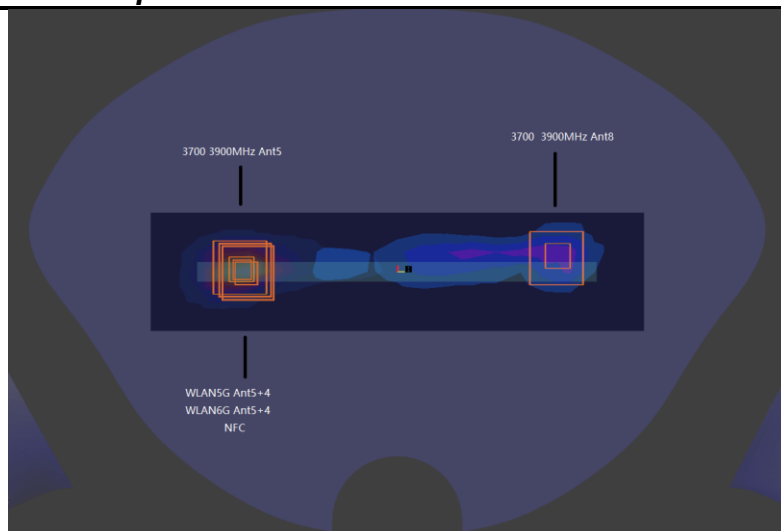
Body-worn WWAN+WLAN+BT Front 5mm



Extremity WWAN+WLAN+NFC Back 0mm



Extremity WWAN+WLAN+NFC Front 0mm



Extremity WWAN+WLAN+NFC Right Side 0mm

<Head>

Case No	Band	Position	SAR (W/kg)		Gap	SAR (W/kg) peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 1	AG1-Ant0	Left Cheek	0.296	0.30	0mm	56.6	217.5	-172.4	106.6	1.81	0.02	Not required
	AG0-Ant4		0.843	1.51	0mm	56.4	324.1	-173.7				
	WLAN		0.669		0mm							
Case 2	AG1-Ant0	Left Cheek	0.296	0.30	0mm	56.6	217.5	-172.4	106.6	1.85	0.02	Not required
	AG0-Ant5		0.886	1.56	0mm	56.4	324.1	-173.7				
	WLAN		0.669		0mm							
Case 3	AG1-Ant0	Left Cheek	0.296	0.30	0mm	56.6	217.5	-172.4	79.1	1.86	0.03	Not required
	AG0-Ant10		0.891	1.56	0mm	39	294.6	-173				
	WLAN		0.669		0mm							
Case 4	AG1-Ant2	Left Cheek	0.157	0.16	0mm	55.2	211.2	-170	113.0	1.67	0.02	Not required
	AG0-Ant4		0.843	1.51	0mm	56.4	324.1	-173.7				
	WLAN		0.669		0mm							
Case 5	AG1-Ant2	Left Cheek	0.157	0.16	0mm	55.2	211.2	-170	113.0	1.71	0.02	Not required
	AG0-Ant5		0.886	1.56	0mm	56.4	324.1	-173.7				
	WLAN		0.669		0mm							
Case 6	AG1-Ant2	Left Cheek	0.157	0.16	0mm	55.2	211.2	-170	85.0	1.72	0.03	Not required
	AG0-Ant10		0.891	1.56	0mm	39	294.6	-173				
	WLAN		0.669		0mm							
Case 7	AG1-Ant8	Left Cheek	0.205	0.21	0mm	56.2	210.5	-172	113.6	1.72	0.02	Not required
	AG0-Ant4		0.843	1.51	0mm	56.4	324.1	-173.7				
	WLAN		0.669		0mm							
Case 8	AG1-Ant8	Left Cheek	0.205	0.21	0mm	56.2	210.5	-172	113.6	1.76	0.02	Not required
	AG0-Ant5		0.886	1.56	0mm	56.4	324.1	-173.7				
	WLAN		0.669		0mm							
Case 9	AG1-Ant8	Left Cheek	0.205	0.21	0mm	56.2	210.5	-172	85.8	1.77	0.03	Not required
	AG0-Ant10		0.891	1.56	0mm	39	294.6	-173				
	WLAN		0.669		0mm							



<Hotspot>

Case No	Band	Position	SAR (W/kg)		Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 1	AG1-Ant0	Front	0.910	0.91	5mm	-41.1	-76	-204	149.0	2.09	0.02	Not required
	AG0-Ant1		0.447	1.18	5mm	-52.8	72.5	-204				
	WLAN		0.728		5mm							
Case 2	AG1-Ant0	Front	0.910	0.91	5mm	-41.1	-76	-204	119.9	1.77	0.02	Not required
	AG0-Ant4		0.134	0.86	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 3	AG1-Ant0	Front	0.910	0.91	5mm	-41.1	-76	-204	119.9	1.73	0.02	Not required
	AG0-Ant5		0.093	0.82	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 4	AG1-Ant0	Front	0.910	0.91	5mm	-41.1	-76	-204	119.9	1.97	0.02	Not required
	AG0-Ant7		0.327	1.06	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 5	AG1-Ant0	Front	0.910	0.91	5mm	-41.1	-76	-204	100.7	1.90	0.03	Not required
	AG0-Ant10		0.262	0.99	5mm	-72.2	19.8	-204				
	WLAN		0.728		5mm							
Case 6	AG1-Ant2	Front	1.253	1.25	5mm	-33.3	-79.5	-204	122.3	2.43	0.03	Not required
	AG0-Ant1		0.447	1.18	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 7	AG1-Ant2	Front	1.253	1.25	5mm	-33.3	-79.5	-204	122.3	2.12	0.03	Not required
	AG0-Ant4		0.134	0.86	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 8	AG1-Ant2	Front	1.253	1.25	5mm	-33.3	-79.5	-204	122.3	2.07	0.02	Not required
	AG0-Ant5		0.093	0.82	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 9	AG1-Ant2	Front	1.253	1.25	5mm	-33.3	-79.5	-204	122.3	2.31	0.03	Not required
	AG0-Ant7		0.327	1.06	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							
Case 10	AG1-Ant2	Front	1.253	1.25	5mm	-33.3	-79.5	-204	106.6	2.24	0.03	Not required
	AG0-Ant10		0.262	0.99	5mm	-72.2	19.8	-204				
	WLAN		0.728		5mm							
Case 11	AG1-Ant8	Front	0.521	0.52	5mm	4	-69	-204	113.6	1.70	0.02	Not required
	AG0-Ant1		0.447	1.18	5mm	-19.8	42	-207				
	WLAN		0.728		5mm							

Case No	Band	Position	SAR (W/kg)		Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 12	AG1-Ant0	Back	1.267	1.27	5mm	-7	-80.5	-207	131.3	2.75	0.03	Not required
	AG0-Ant1		0.631	1.48	5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 13	AG1-Ant0	Back	1.267	1.27	5mm	-7	-80.5	-207	131.3	2.73	0.03	Not required
	AG0-Ant4		0.615	1.46	5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 14	AG1-Ant0	Back	1.267	1.27	5mm	-7	-80.5	-207	131.3	2.64	0.03	Not required
	AG0-Ant5		0.526	1.37	5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 15	AG1-Ant0	Back	1.267	1.27	5mm	-7	-80.5	-207	131.3	2.60	0.03	Not required



FCC SAR Test Report

Report No. : FA3D1818

	AG0-Ant7		0.485	1.33	5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 16	AG1-Ant0	Back	1.267	1.20	5mm	14.3	-73.2	-207	119.7	2.47	0.03	Not required
	AG0-Ant10		0.351		5mm	14	46.5	-207				
	WLAN		0.848		5mm							
Case 17	AG1-Ant2	Back	0.973	1.48	5mm	-51.6	-95	-204	132.8	2.45	0.03	Not required
	AG0-Ant1		0.631		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 18	AG1-Ant2	Back	0.973	1.46	5mm	-51.6	-95	-204	132.8	2.44	0.03	Not required
	AG0-Ant4		0.615		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 19	AG1-Ant2	Back	0.973	1.37	5mm	-51.6	-95	-204	132.8	2.35	0.03	Not required
	AG0-Ant5		0.526		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 20	AG1-Ant2	Back	0.973	1.33	5mm	-51.6	-95	-204	132.8	2.31	0.03	Not required
	AG0-Ant7		0.485		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 21	AG1-Ant2	Back	0.973	1.20	5mm	-51.6	-95	-204	132.8	2.17	0.02	Not required
	AG0-Ant10		0.351		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 22	AG1-Ant8	Back	0.618	1.48	5mm	-54	-71	-207	108.6	2.10	0.03	Not required
	AG0-Ant1		0.631		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 23	AG1-Ant8	Back	0.618	1.46	5mm	-54	-71	-207	108.6	2.08	0.03	Not required
	AG0-Ant4		0.615		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 24	AG1-Ant8	Back	0.618	1.37	5mm	-54	-71	-207	108.6	1.99	0.03	Not required
	AG0-Ant5		0.526		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 25	AG1-Ant8	Back	0.618	1.33	5mm	-54	-71	-207	108.6	1.95	0.03	Not required
	AG0-Ant7		0.485		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							
Case 26	AG1-Ant8	Back	0.618	1.20	5mm	-54	-71	-207	108.6	1.82	0.02	Not required
	AG0-Ant10		0.351		5mm	-65.5	37	-207				
	WLAN		0.848		5mm							

Case No	Band	Position	SAR (W/kg)		Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 27	AG1-Ant2	Right Side	0.774	1.14	5mm	-28.2	63.2	-204	84.0	1.92	0.03	Not required
	AG0-Ant5		0.629		5mm	-28.8	-20.7	-207				
	WLAN		0.513		5mm							
Case 28	AG1-Ant8	Right Side	1.274	0.64	5mm	-30.6	75	-204	81.0	1.91	0.03	Not required
	AG0-Ant1		0.122		5mm	-25.6	-5.8	-204				
	WLAN		0.513		5mm							
Case 29	AG1-Ant8	Right Side	1.274	0.64	5mm	-30.6	75	-204	115.8	1.91	0.02	Not required
	AG0-Ant4		0.125		5mm	-28.8	-40.7	-207				
	WLAN		0.513		5mm							
Case 30	AG1-Ant8	Right Side	1.274	1.27	5mm	-30.6	75	-204	115.8	2.42	0.03	Not required



FCC SAR Test Report

Report No. : FA3D1818

	AG0-Ant5		0.629	1.14	5mm	-28.8	-40.7	-207				
	WLAN		0.513		5mm							
Case 31	AG1-Ant8	Right Side	1.274	0.53	5mm	-30.6	75	-204	115.8	1.80	0.02	Not required
	AG0-Ant7		0.012		5mm	-28.8	-40.7	-207				
	WLAN		0.513		5mm							
Case 32	AG1-Ant8	Right Side	1.274	0.53	5mm	-30.6	75	-204	115.8	1.80	0.02	Not required
	AG0-Ant10		0.015		5mm	-28.8	-40.7	-207				
	WLAN		0.513		5mm							

<Body-worn>

Case No	Band	Position	SAR (W/kg)		Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 1	AG1-Ant0	Front	1.166	1.41	5mm	-41.1	-76	-204	149.0	2.57	0.03	Not required
	AG0-Ant1		0.875		5mm	-52.8	72.5	-204				
	WLAN		0.532		5mm							
Case 2	AG1-Ant0	Front	1.166	0.72	5mm	-41.1	-76	-204	119.9	1.89	0.02	Not required
	AG0-Ant4		0.192		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 3	AG1-Ant0	Front	1.166	1.10	5mm	-41.1	-76	-204	119.9	2.27	0.03	Not required
	AG0-Ant5		0.569		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 4	AG1-Ant0	Front	1.166	1.13	5mm	-41.1	-76	-204	119.9	2.30	0.03	Not required
	AG0-Ant7		0.602		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 5	AG1-Ant0	Front	1.166	1.11	5mm	-41.1	-76	-204	100.7	2.28	0.03	Not required
	AG0-Ant10		0.578		5mm	-72.2	19.8	-204				
	WLAN		0.532		5mm							
Case 6	AG1-Ant2	Front	1.299	1.41	5mm	-33.3	-79.5	-204	122.3	2.71	0.04	Not required
	AG0-Ant1		0.875		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 7	AG1-Ant2	Front	1.299	0.72	5mm	-33.3	-79.5	-204	122.3	2.02	0.02	Not required
	AG0-Ant4		0.192		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 8	AG1-Ant2	Front	1.299	1.10	5mm	-33.3	-79.5	-204	122.3	2.40	0.03	Not required
	AG0-Ant5		0.569		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 9	AG1-Ant2	Front	1.299	1.13	5mm	-33.3	-79.5	-204	122.3	2.43	0.03	Not required
	AG0-Ant7		0.602		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 10	AG1-Ant2	Front	1.299	1.11	5mm	-33.3	-79.5	-204	106.6	2.41	0.04	Not required
	AG0-Ant10		0.578		5mm	-72.2	19.8	-204				
	WLAN		0.532		5mm							
Case 11	AG1-Ant8	Front	0.537	1.41	5mm	4	-69	-204	113.6	1.94	0.02	Not required
	AG0-Ant1		0.875		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 27	AG1-Ant8	Front	0.537	1.10	5mm	4	-69	-204	113.6	1.64	0.02	Not required
	AG0-Ant5		0.569		5mm	-19.8	42	-207				
	WLAN		0.532		5mm							



FCC SAR Test Report

Report No. : FA3D1818

Case 28	AG1-Ant8	Front	0.537	0.54	5mm	4	-69	-204	113.6	1.67	0.02	Not required
	AG0-Ant7		0.602	1.13	5mm	-19.8	42	-207				
	WLAN		0.532		5mm							
Case 29	AG1-Ant8	Front	0.537	0.54	5mm	4	-69	-204	113.6	1.65	0.02	Not required
	AG0-Ant10		0.578	1.11	5mm	-19.8	42	-207				
	WLAN		0.532		5mm							

Case No	Band	Position	SAR (W/kg)		Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 12	AG1-Ant0	Back	1.304	1.30	5mm	-7	-80.5	-207	131.3	2.88	0.04	Not required
	AG0-Ant1		0.895	1.57	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 13	AG1-Ant0	Back	1.304	1.30	5mm	-7	-80.5	-207	131.3	2.86	0.04	Not required
	AG0-Ant4		0.882	1.56	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 14	AG1-Ant0	Back	1.304	1.30	5mm	-7	-80.5	-207	131.3	2.86	0.04	Not required
	AG0-Ant5		0.877	1.55	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 15	AG1-Ant0	Back	1.304	1.30	5mm	-7	-80.5	-207	131.3	2.86	0.04	Not required
	AG0-Ant7		0.875	1.55	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 16	AG1-Ant0	Back	1.304	1.30	5mm	14.3	-73.2	-207	119.7	2.77	0.04	Not required
	AG0-Ant10		0.787	1.46	5mm	14	46.5	-207				
	WLAN		0.677		5mm							
Case 17	AG1-Ant2	Back	1.286	1.29	5mm	-51.6	-95	-204	132.8	2.86	0.04	Not required
	AG0-Ant1		0.895	1.57	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 18	AG1-Ant2	Back	1.286	1.29	5mm	-51.6	-95	-204	132.8	2.85	0.04	Not required
	AG0-Ant4		0.882	1.56	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 19	AG1-Ant2	Back	1.286	1.29	5mm	-51.6	-95	-204	132.8	2.84	0.04	Not required
	AG0-Ant5		0.877	1.55	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 20	AG1-Ant2	Back	1.286	1.29	5mm	-51.6	-95	-204	132.8	2.84	0.04	Not required
	AG0-Ant7		0.875	1.55	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 21	AG1-Ant2	Back	1.286	1.29	5mm	-51.6	-95	-204	132.8	2.75	0.03	Not required
	AG0-Ant10		0.787	1.46	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 22	AG1-Ant8	Back	0.544	0.54	5mm	-54	-71	-207	108.6	2.12	0.03	Not required
	AG0-Ant1		0.895	1.57	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 23	AG1-Ant8	Back	0.544	0.54	5mm	-54	-71	-207	108.6	2.10	0.03	Not required
	AG0-Ant4		0.882	1.56	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 24	AG1-Ant8	Back	0.544	0.54	5mm	-54	-71	-207	108.6	2.10	0.03	Not required
	AG0-Ant5		0.877	1.55	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							



FCC SAR Test Report

Report No. : FA3D1818

Case 25	AG1-Ant8	Back	0.544	0.54	5mm	-54	-71	-207	108.6	2.10	0.03	Not required
	AG0-Ant7		0.875	1.55	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							
Case 26	AG1-Ant8	Back	0.544	0.54	5mm	-54	-71	-207	108.6	2.01	0.03	Not required
	AG0-Ant10		0.787	1.46	5mm	-65.5	37	-207				
	WLAN		0.677		5mm							

<Extremity>

Case No	Band	Position	SAR (W/kg)		Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 1	AG1-Ant0	Front	1.493	1.49	0mm	-40.5	-86.1	-207	170.5	4.74	0.06	Not required
	AG0-Ant1		2.372	3.25	0mm	-66.4	82.4	-204				
	WLAN		0.875		0mm							
Case 2	AG1-Ant2	Front	3.138	3.14	0mm	-13.4	-80.6	-207	170.3	6.39	0.09	Not required
	AG0-Ant1		2.372	3.25	0mm	-30.6	88.8	-204				
	WLAN		0.875		0mm							
Case 3	AG1-Ant2	Front	3.138	3.14	0mm	-13.4	-80.6	-207	165.0	4.01	0.05	Not required
	AG0-Ant4			0.88	0mm	6	80.5	-177				
	WLAN		0.875		0mm							
Case 4	AG1-Ant2	Front	3.138	3.14	0mm	-13.4	-80.6	-207	165.0	4.01	0.05	Not required
	AG0-Ant5			0.88	0mm	6	80.5	-177				
	WLAN		0.875		0mm							
Case 5	AG1-Ant2	Front	3.138	3.14	0mm	-13.4	-80.6	-207	165.0	4.01	0.05	Not required
	AG0-Ant7			0.88	0mm	6	80.5	-177				
	WLAN		0.875		0mm							
Case 6	AG1-Ant2	Front	3.138	3.14	0mm	-13.4	-80.6	-207	165.0	4.01	0.05	Not required
	AG0-Ant10			0.88	0mm	6	80.5	-177				
	WLAN		0.875		0mm							

Case No	Band	Position	SAR (W/kg)		Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					(mm)	X	Y	Z				
Case 7	AG1-Ant0	Back	1.909	1.91	0mm	12.5	-72.6	-207	125.0	5.07	0.09	Not required
	AG0-Ant1		2.483	3.16	0mm	23.4	48.3	-177				
	WLAN		0.675		0mm							
Case 8	AG1-Ant0	Back	1.909	1.91	0mm	12.5	-72.6	-207	125.0	4.67	0.08	Not required
	AG0-Ant4		2.081	2.76	0mm	23.4	48.3	-177				
	WLAN		0.675		0mm							
Case 9	AG1-Ant0	Back	1.909	1.91	0mm	12.5	-72.6	-207	115.5	4.41	0.08	Not required
	AG0-Ant7		1.821	2.50	0mm	5.2	42.7	-207				
	WLAN		0.675		0mm							
Case 10	AG1-Ant2	Back	2.153	2.15	0mm	-16.1	-84.2	-207	141.5	5.31	0.09	Not required
	AG0-Ant1		2.483	3.16	0mm	23.4	48.3	-177				
	WLAN		0.675		0mm							
Case 11	AG1-Ant2	Back	2.153	2.15	0mm	-16.1	-84.2	-207	141.5	4.91	0.08	Not required
	AG0-Ant4		2.081	2.76	0mm	23.4	48.3	-177				
	WLAN		0.675		0mm							
Case 12	AG1-Ant2	Back	2.153	2.15	0mm	-51.8	-72.1	-204	128.2	4.65	0.08	Not required



	AG0-Ant7		1.821	2.50	0mm	5.2	42.7	-207				
	WLAN		0.675		0mm							

Case No	Band	Position	SAR (W/kg)	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 13	AG1-Ant8	Right side	3.186	3.19	0mm	-28.2	86.2	-204	164.8	6.22	0.09	Not required
	AG0-Ant5		2.471	3.03	0mm	-29.2	-78.6	-204				
	WLAN		0.560		0mm							

17.8 Maximum Report SAR And SAR Peak Locations

General Note:

- The maximum report SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
- The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.

<Head>

Left Cheek								
BT Ant3	SAR (W/kg)	0.28	WLAN2.4G MIMO	SAR (W/kg)	0.378			
	Axis	X 19.7 Y 332.5 Z -174.2		Axis	X 19.7 Y 332.5 Z -174.2			
BT Ant6	SAR (W/kg)	0.095	WLAN5G MIMO	SAR (W/kg)	0.374	WLAN6E MIMO	SAR (W/kg)	0.389
	Axis	X 56.4 Y 324.1 Z -173.7		Axis	X 16.2 Y 325.8 Z -174.3		Axis	X 39.9 Y 327 Z -175.1

Left Cheek									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR (W/kg)	0.408					0.167		
	Axis	X 7.6 Y 295.4 Z -169					X 58 Y 216.6 Z -172.1		
GSM1900	SAR (W/kg)	0.38						0.073	
	Axis	X -10 Y 301.6 Z -166.5						X 62 Y 205.6 Z -169	
WCDMA II	SAR (W/kg)	0.423						0.095	
	Axis	X -9.5 Y 302.1 Z -166.5						X 62.3 Y 204.8 Z -169.2	
WCDMA IV	SAR (W/kg)	0.287						0.093	
	Axis	X -10.5 Y 298.5 Z -165.7						X 54.8 Y 210.2 Z -170	
WCDMA V	SAR (W/kg)	0.425					0.172		
	Axis	X 7.5 Y 295.2 Z -169					X 56.9 Y 214.5 Z -172.1		
LTE Band 2	SAR (W/kg)	0.409						0.155	
	Axis	X -9.3 Y 301.4 Z -166.5						X 61 Y 206 Z -169.4	
LTE Band 7	SAR (W/kg)	0.518				0.874	0.193	0.157	
	Axis	X 5.8 Y 311.8 Z -170				X 39 Y 294.6 Z -173	X 54.6 Y 202.4 Z -174.6	X 55.6 Y 208.1 Z -170.7	
LTE Band 12	SAR (W/kg)	0.358					0.194		
	Axis	X 2.1 Y 288 Z -167					X 57.1 Y 215.5 Z -172.1		
LTE Band 13	SAR (W/kg)	0.404					0.213		
	Axis	X 2.5 Y 287.6 Z -167					X 56.6 Y 216.4 Z -172.1		
LTE Band 26	SAR (W/kg)	0.406					0.197		
	Axis	X 7.7 Y 294.8 Z -169					X 56.6 Y 217.5 Z -172.4		
LTE Band 66	SAR (W/kg)	0.273						0.092	
	Axis	X -10.7 Y 298.9 Z -165.7						X 55.6 Y 211 Z -170.7	
LTE Band 41	SAR (W/kg)	0.569				0.891	0.185	0.089	
	Axis	X 5.5 Y 311.2 Z -170				X 36.8 Y 297.6 Z -172.9	X 49.5 Y 206.4 Z -175.4	X 55.1 Y 206.2 Z -170.1	



FCC SAR Test Report

Report No. : FA3D1818

LTE Band 42 Part 27Q	SAR (W/kg)				0.238				
	Axis				X 35.6 Y 259.2 Z -171.3				
LTE Band 48	SAR (W/kg)				0.314				
	Axis				X 35.6 Y 259.2 Z -171.3				
FR1 n2	SAR (W/kg)	0.397						0.082	
	Axis	X -9.4 Y 302.4 Z -166.5						X 60.5 Y 205.6 Z -169	
FR1 n7	SAR (W/kg)	0.564						0.134	
	Axis	X 5.2 Y 309.6 Z -170						X 54.6 Y 207.9 Z -170.5	
FR1 n26	SAR (W/kg)	0.381					0.163		
	Axis	X 7.1 Y 293.6 Z -169					X 57 Y 215.8 Z -172.4		
FR1 n66	SAR (W/kg)	0.3						0.107	
	Axis	X -9.8 Y 296.6 Z -169						X 55.2 Y 211.2 Z -170	
FR1 n41	SAR (W/kg)	0.489				0.493	0.296	0.099	
	Axis	X 5.9 Y 309.8 Z -170				X 38 Y 295.3 Z -173	X 52.2 Y 204.8 Z -175.4	X 54.9 Y 205.8 Z -170.2	
FR1 n77	SAR (W/kg)		0.844	0.886	0.402				0.205
	Axis		X 18.6 Y 328.1 Z -171.3	X 25.7 Y 338.1 Z -174.1	X 36.4 Y 258.7 Z -171.4				X 56.2 Y 210.5 Z -172

<Hotspot>

Front					
BT Ant3	SAR	0.196	WLAN2.4G MIMO	SAR	0.301
	Axis	X -13.5 Y 82.3 Z -207		Axis	X -14.6 Y 81.6 Z -207
BT Ant6	SAR	0.086	WLAN5G MIMO	SAR	0.532
	Axis	X -19.8 Y 42 Z -207		Axis	X -10.9 Y 75.1 Z -207
Back					
BT Ant3	SAR	0.21	WLAN2.4G MIMO	SAR	0.425
	Axis	X -57.5 Y 72.5 Z -207		Axis	X -53 Y 67 Z -207
BT Ant6	SAR	0.159	WLAN5G MIMO	SAR	0.638
	Axis	X -65.5 Y 37 Z -207		Axis	X -53.4 Y 63.6 Z -207
Right side					
BT Ant3	SAR	0.066	WLAN2.4G MIMO	SAR	0.13
	Axis	X -26.3 Y -41.5 Z -207		Axis	X -25.8 Y -41.7 Z -207
BT Ant6	SAR	0.285	WLAN5G MIMO	SAR	0.228
	Axis	X -25.8 Y -61 Z -207		Axis	X -28.8 Y -40.7 Z -207

Front									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	0.401					0.581		
	Axis	X -53.2 Y 73.8 Z -204					X -41.5 Y -76.3 Z -204		
GSM1900	SAR	0.331						1.195	
	Axis	X -67.2 Y 74 Z -204						X -12.8 Y -83.1 Z -207	
WCDMA II	SAR	0.361						1.06	
	Axis	X -66.6 Y 74.2 Z -204						X -5.5 Y -87.4 Z -207	
WCDMA IV	SAR	0.286						1.025	
	Axis	X -67.6 Y 74.6 Z -204						X -8.3 Y -87.9 Z -207	
WCDMA V	SAR	0.279					0.77		
	Axis	X -52.4 Y 72.7 Z -204					X -41.2 Y -76 Z -204		
LTE Band 2	SAR	0.339						0.902	
	Axis	X -67 Y 75 Z -204						X -11 Y -87.1 Z -207	
LTE Band	SAR	0.417				0.236	0.907	0.799	



FCC SAR Test Report

Report No. : FA3D1818

7	Axis	X -34 Y 81 Z -204				X -72.2 Y 19.8 Z -204	X -41.5 Y -89 Z -207	X -34 Y -80 Z -204	
LTE Band 12	SAR	0.354					0.489		
	Axis	X -53.5 Y 73.5 Z -204					X -53.5 Y -87 Z -204		
LTE Band 13	SAR	0.352					0.471		
	Axis	X -53.2 Y 73 Z -204					X -53 Y -86.5 Z -204		
LTE Band 26	SAR	0.418					0.398		
	Axis	X -53.5 Y 73.5 Z -204					X -41.5 Y -76.5 Z -204		
LTE Band 66	SAR	0.293						0.985	
	Axis	X -68.5 Y 75 Z -204						X -14.8 Y -85.9 Z -207	
LTE Band 41	SAR	0.345				0.257	0.483	0.55	
	Axis	X -33.6 Y 81.5 Z -204				X -71.8 Y 20.2 Z -204	X -41.2 Y -89.6 Z -207	X -33.6 Y -80.2 Z -204	
LTE Band 42 Part 27Q	SAR				0.327				
	Axis				X -65 Y 50 Z -204				
LTE Band 48	SAR				0.275				
	Axis				X -65 Y 50 Z -204				
FR1 n2	SAR	0.329						1.253	
	Axis	X -66.2 Y 75.2 Z -204						X -9.3 Y -85.6 Z -207	
FR1 n7	SAR	0.447						0.679	
	Axis	X -33.3 Y 82 Z -204						X -33.3 Y -79.5 Z -204	
FR1 n26	SAR	0.373					0.538		
	Axis	X -52.8 Y 72.5 Z -204					X -41.1 Y -76 Z -204		
FR1 n66	SAR	0.312						0.914	
	Axis	X -68.1 Y 74.2 Z -204						X -11.8 Y -84 Z -207	
FR1 n41	SAR	0.369				0.262	0.91	0.738	
	Axis	X -41.2 Y 78.9 Z -207				X -72 Y 20 Z -204	X -41.6 Y -89.3 Z -207	X -34.2 Y -79.8 Z -204	
FR1 n77	SAR		0.134	0.093	0.149				0.521
	Axis		X -34 Y 88 Z -204	X 6 Y 77 Z -204	X -65 Y 50 Z -204				X 4 Y -69 Z -204

Back									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	0.615					0.972		
	Axis	X -5.4 Y 66.1 Z -207					X 14.8 Y -74.7 Z -207		
GSM1900	SAR	0.631						0.842	
	Axis	X -4.3 Y 66.6 Z -207						X -51.4 Y -95.2 Z -204	
WCDMA II	SAR	0.626						0.825	
	Axis	X -7.8 Y 78.9 Z -207						X -51.6 Y -95 Z -204	
WCDMA IV	SAR	0.62						0.882	
	Axis	X -7 Y 79.2 Z -207						X -41.1 Y -105 Z -204	
WCDMA V	SAR	0.62					1.267		
	Axis	X -7.9 Y 77.6 Z -207					X 15.2 Y -75 Z -207		
LTE Band 2	SAR	0.619						0.739	
	Axis	X -5.8 Y 78.7 Z -207						X -52 Y -95 Z -204	
LTE Band 7	SAR	0.421				0.268	0.842	0.855	
	Axis	X -6.5 Y 73.5 Z -207				X 14 Y 46.5 Z -207	X -7 Y -80.5 Z -207	X -15 Y -103.5 Z -207	
LTE Band 12	SAR	0.626					0.853		
	Axis	X -5.4 Y 66.8 Z -207					X 3.5 Y -87 Z -204		
LTE Band 13	SAR	0.621					0.853		
	Axis	X -5.9 Y 66.1 Z -207					X 3.6 Y -87.2 Z -204		



FCC SAR Test Report

Report No. : FA3D1818

LTE Band 26	SAR	0.615					0.715		
	Axis	X -8.4 Y 77.1 Z -207					X 14.6 Y -74.2 Z -207		
LTE Band 66	SAR	0.613						0.785	
	Axis	X -2.5 Y 78.2 Z -207						X -41.5 Y -105.5 Z -204	
LTE Band 41	SAR	0.368				0.351	0.464	0.729	
	Axis	X -7.5 Y 74 Z -207				X 14 Y 47.5 Z -207	X -6 Y -80.5 Z -207	X -16 Y -101.5 Z -207	
LTE Band 42 Part 27Q	SAR				0.457				
	Axis				X 10.5 Y 59.5 Z -207				
LTE Band 48	SAR				0.485				
	Axis				X 7.6 Y 58.6 Z -207				
FR1 n2	SAR	0.626						0.836	
	Axis	X -3.5 Y 75.8 Z -207						X -51.6 Y -95.2 Z -204	
FR1 n7	SAR	0.471						0.973	
	Axis	X -7 Y 73 Z -207						X -20.5 Y -100 Z -207	
FR1 n26	SAR	0.616					0.74		
	Axis	X -4.2 Y 76.6 Z -207					X 14.3 Y -73.2 Z -207		
FR1 n66	SAR	0.622						0.735	
	Axis	X -0.7 Y 76.8 Z -207						X -42.6 Y -104.8 Z -204	
FR1 n41	SAR	0.396				0.317	0.862	0.824	
	Axis	X -22.5 Y 76.5 Z -207				X 11 Y 46.5 Z -207	X -4 Y -83.5 Z -207	X -17 Y -102 Z -207	
FR1 n77	SAR		0.615	0.526	0.374				0.618
	Axis		X -45.5 Y 82 Z -207	X -66.2 Y 73 Z -207	X 6.8 Y 59.6 Z -207				X -54 Y -71 Z -207

Right side									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	0.108					0.108		
	Axis	X -26.6 Y -6.2 Z -204					X -25.6 Y -9.2 Z -204		
GSM1900	SAR	0.025						0.774	
	Axis	X -25.3 Y -72.1 Z -204						X -27.6 Y 69.2 Z -204	
WCDMA II	SAR	0.031						0.549	
	Axis	X -24.6 Y -71.8 Z -204						X -27.1 Y 68.8 Z -204	
WCDMA IV	SAR	0.006						0.491	
	Axis	X -25.5 Y -76.2 Z -204						X -27.6 Y 69.2 Z -204	
WCDMA V	SAR	0.076					0.15		
	Axis	X -26.2 Y -6.6 Z -204					X -25.1 Y -8.8 Z -204		
LTE Band 2	SAR	0.028						0.456	
	Axis	X -25 Y -72 Z -204						X -27.4 Y 69 Z -204	
LTE Band 7	SAR	0.033				0.015	0.057	0.244	
	Axis	X -28.2 Y -73 Z -204				X -25.5 Y -61.8 Z -207	X -32.4 Y 71.3 Z -204	X -27.4 Y 64 Z -204	
LTE Band 12	SAR	0.119					0.107		
	Axis	X -25.8 Y -6 Z -204					X -25.8 Y 1.5 Z -204		
LTE Band 13	SAR	0.069					0.07		
	Axis	X -25.6 Y -5.8 Z -204					X -25.6 Y 1.6 Z -204		
LTE Band 26	SAR	0.122					0.097		
	Axis	X -26.6 Y -6 Z -204					X -25.8 Y -9 Z -204		
LTE Band 66	SAR	0.009						0.443	
	Axis	X -25.8 Y -76.5 Z -204						X -27.4 Y 69 Z -204	
LTE Band 41	SAR	0.024				0.006	0.074	0.168	
	Axis	X -28.9 Y -72.3 Z -204				X -25.2 Y -62.1 Z -207	X -31.6 Y 71.2 Z -204	X -27.3 Y 64.2 Z -204	
LTE Band	SAR				NA				



FCC SAR Test Report

Report No. : FA3D1818

42 Part 27Q	Axis				NA				
LTE Band 48	SAR				NA				
	Axis				NA				
FR1 n2	SAR	0.066						0.433	
	Axis	X -24.5 Y -72.2 Z -204						X -27.2 Y 68.9 Z -204	
FR1 n7	SAR	0.038						0.347	
	Axis	X -28.6 Y -73.1 Z -204						X -27.8 Y 63.6 Z -204	
FR1 n26	SAR	0.095					0.065		
	Axis	X -26.2 Y -6.3 Z -204					X -25.6 Y -9.2 Z -204		
FR1 n66	SAR	0.01						0.416	
	Axis	X -25.3 Y -76.1 Z -204						X -28.6 Y 69.5 Z -204	
FR1 n41	SAR	0.025				0.013	0.128	0.261	
	Axis	X -28.8 Y -72.1 Z -204				X -25.5 Y -62 Z -207	X -32.2 Y 71 Z -204	X -28.2 Y 63.2 Z -204	
FR1 n77	SAR		0.125	0.629	0.012				1.274
	Axis		X -34.6 Y -60 Z -204	X -25.8 Y -62 Z -204	X -34.6 Y -79 Z -204				X -30.6 Y 75 Z -204

<Body-worn>

Front								
BT Ant3	SAR	0.092	WLAN2.4G MIMO	SAR	0.248			
	Axis	X -13.5 Y 82.3 Z -207		Axis	X -14.6 Y 81.6 Z -207			
BT Ant6	SAR	0.046	WLAN5G MIMO	SAR	0.275	WLAN6E MIMO	SAR	0.172
	Axis	X -19.8 Y 42 Z -207		Axis	X -10.9 Y 75.1 Z -207		Axis	X 1.5 Y 72.3 Z -207
Back								
BT Ant3	SAR	0.102	WLAN2.4G MIMO	SAR	0.374			
	Axis	X -57.5 Y 72.5 Z -207		Axis	X -53 Y 67 Z -207			
BT Ant6	SAR	0.086	WLAN5G MIMO	SAR	0.389	WLAN6E MIMO	SAR	0.066
	Axis	X -65.5 Y 37 Z -207		Axis	X -53.4 Y 63.6 Z -207		Axis	X -50.4 Y 64.5 Z -207

Front									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	0.541					0.581		
	Axis	X -53.2 Y 73.8 Z -204					X -41.5 Y -76.3 Z -204		
GSM1900	SAR	0.423						1.299	
	Axis	X -67.2 Y 74 Z -204						X -12.8 Y -83.1 Z -207	
WCDMA II	SAR	0.506						1.295	
	Axis	X -66.6 Y 74.2 Z -204						X -5.5 Y -87.4 Z -207	
WCDMA IV	SAR	0.406						1.283	
	Axis	X -67.6 Y 74.6 Z -204						X -8.3 Y -87.9 Z -207	
WCDMA V	SAR	0.397					0.77		
	Axis	X -52.4 Y 72.7 Z -204					X -41.2 Y -76 Z -204		
LTE Band 2	SAR	0.48						1.278	
	Axis	X -67 Y 75 Z -204						X -11 Y -87.1 Z -207	
LTE Band 7	SAR	0.844				0.324	1.08	1.188	
	Axis	X -34 Y 81 Z -204				X -72.2 Y 19.8 Z -204	X -41.5 Y -89 Z -207	X -34 Y -80 Z -204	
LTE Band 12	SAR	0.493					0.489		
	Axis	X -53.5 Y 73.5 Z -204					X -53.5 Y -87 Z -204		
LTE Band 13	SAR	0.5					0.471		
	Axis	X -53.2 Y 73 Z -204					X -53 Y -86.5 Z -204		
LTE Band	SAR	0.515					0.398		



FCC SAR Test Report

Report No. : FA3D1818

26	Axis	X -53.5 Y 73.5 Z -204					X -41.5 Y -76.5 Z -204		
LTE Band 66	SAR	0.423						1.293	
	Axis	X -68.5 Y 75 Z -204						X -14.8 Y -85.9 Z -207	
LTE Band 41	SAR	0.875				0.578	0.761	1.201	
	Axis	X -33.6 Y 81.5 Z -204				X -71.8 Y 20.2 Z -204	X -41.2 Y -89.6 Z -207	X -33.6 Y -80.2 Z -204	
LTE Band 42 Part 27Q	SAR				0.382				
	Axis				X -65 Y 50 Z -204				
LTE Band 48	SAR				0.343				
	Axis				X -65 Y 50 Z -204				
FR1 n2	SAR	0.46						1.271	
	Axis	X -66.2 Y 75.2 Z -204						X -9.3 Y -85.6 Z -207	
FR1 n7	SAR	0.815						1.067	
	Axis	X -33.3 Y 82 Z -204						X -33.3 Y -79.5 Z -204	
FR1 n26	SAR	0.527					0.538		
	Axis	X -52.8 Y 72.5 Z -204					X -41.1 Y -76 Z -204		
FR1 n66	SAR	0.438						1.296	
	Axis	X -68.1 Y 74.2 Z -204						X -11.8 Y -84 Z -207	
FR1 n41	SAR	0.825				0.401	1.166	1.229	
	Axis	X -41.2 Y 78.9 Z -207				X -72 Y 20 Z -204	X -41.6 Y -89.3 Z -207	X -34.2 Y -79.8 Z -204	
FR1 n77	SAR		0.192	0.569	0.602				0.537
	Axis		X -34 Y 88 Z -204	X 6 Y 77 Z -204	X -65 Y 50 Z -204				X 4 Y -69 Z -204

Back									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	0.831					0.972		
	Axis	X -5.4 Y 66.1 Z -207					X 14.8 Y -74.7 Z -207		
GSM1900	SAR	0.806						0.915	
	Axis	X -4.3 Y 66.6 Z -207						X -51.4 Y -95.2 Z -204	
WCDMA II	SAR	0.88						1.007	
	Axis	X -7.8 Y 78.9 Z -207						X -51.6 Y -95 Z -204	
WCDMA IV	SAR	0.885						1.116	
	Axis	X -7 Y 79.2 Z -207						X -41.1 Y -105 Z -204	
WCDMA V	SAR	0.882					1.267		
	Axis	X -7.9 Y 77.6 Z -207					X 15.2 Y -75 Z -207		
LTE Band 2	SAR	0.884						1.078	
	Axis	X -5.8 Y 78.7 Z -207						X -52 Y -95 Z -204	
LTE Band 7	SAR	0.883				0.471	1.288	1.272	
	Axis	X -6.5 Y 73.5 Z -207				X 14 Y 46.5 Z -207	X -7 Y -80.5 Z -207	X -15 Y -103.5 Z -207	
LTE Band 12	SAR	0.872					0.853		
	Axis	X -5.4 Y 66.8 Z -207					X 3.5 Y -87 Z -204		
LTE Band 13	SAR	0.881					0.853		
	Axis	X -5.9 Y 66.1 Z -207					X 3.6 Y -87.2 Z -204		
LTE Band 26	SAR	0.759					0.715		
	Axis	X -8.4 Y 77.1 Z -207					X 14.6 Y -74.2 Z -207		
LTE Band 66	SAR	0.888						1.114	
	Axis	X -2.5 Y 78.2 Z -207						X -41.5 Y -105.5 Z -204	
LTE Band 41	SAR	0.895				0.787	1.304	1.281	
	Axis	X -7.5 Y 74 Z -207				X 14 Y 47.5 Z -207	X -6 Y -80.5 Z -207	X -16 Y -101.5 Z -207	
LTE Band	SAR				0.617				



FCC SAR Test Report

Report No. : FA3D1818

42 Part 27Q	Axis				X 10.5 Y 59.5 Z -207				
LTE Band 48	SAR				0.605				
	Axis				X 7.6 Y 58.6 Z -207				
FR1 n2	SAR	0.875						0.876	
	Axis	X -3.5 Y 75.8 Z -207						X -51.6 Y -95.2 Z -204	
FR1 n7	SAR	0.871						1.286	
	Axis	X -7 Y 73 Z -207						X -20.5 Y -100 Z -207	
FR1 n26	SAR	0.872					0.74		
	Axis	X -4.2 Y 76.6 Z -207					X 14.3 Y -73.2 Z -207		
FR1 n66	SAR	0.874						1.033	
	Axis	X -0.7 Y 76.8 Z -207						X -42.6 Y -104.8 Z -204	
FR1 n41	SAR	0.887				0.485	1.267	1.267	
	Axis	X -22.5 Y 76.5 Z -207				X 11 Y 46.5 Z -207	X -4 Y -83.5 Z -207	X -17 Y -102 Z -207	
FR1 n77	SAR		0.882	0.877	0.875				0.544
	Axis	X -45.5 Y 82 Z -207	X -66.2 Y 73 Z -207	X 6.8 Y 59.6 Z -207					X -54 Y -71 Z -207

<Extremity>

Front					
WLAN5G MIMO	SAR	0.981			
	Axis	X -10.9 Y 95.1 Z -207			
WLAN6E MIMO	SAR	0.125	NFC	SAR	0.002
	Axis	X -10.6 Y 95.1 Z -207		Axis	X 6 Y 80.5 Z -177
Back					
WLAN5G MIMO	SAR	0.655			
	Axis	X -58.5 Y 74.1 Z -207			
WLAN6E MIMO	SAR	0.078	NFC	SAR	0.02
	Axis	X -62.5 Y 78.5 Z -207		Axis	X 23.4 Y 48.3 Z -177
Right side					
WLAN5G MIMO	SAR	0.559			
	Axis	X -27.1 Y -80.6 Z -207			
WLAN6E MIMO	SAR	0.104	NFC	SAR	0.001
	Axis	X -26.3 Y -81.5 Z -207		Axis	X -28.6 Y -80.1 Z -177

Front									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	NA					NA		
	Axis	NA					NA		
GSM1900	SAR	1.55						2.529	
	Axis	X -65.2 Y 82.6 Z -204						X -13.2 Y -82.6 Z -207	
WCDMA II	SAR	1.758						3.108	
	Axis	X -66.4 Y 82.4 Z -204						X -12.1 Y -81.3 Z -207	
WCDMA IV	SAR	1.351						3.136	
	Axis	X -66.8 Y 85.2 Z -204						X -7.6 Y -85.4 Z -207	
WCDMA V	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 2	SAR	1.543						2.769	
	Axis	X -65.8 Y 83.1 Z -204						X -13.4 Y -80.6 Z -207	
LTE Band 7	SAR	1.887				NA	NA	2.496	
	Axis	X -32.5 Y 90.1 Z -204				NA	NA	X -30.5 Y -86.7 Z -204	
LTE Band 12	SAR	NA					NA		



FCC SAR Test Report

Report No. : FA3D1818

LTE Band 13	Axis	NA					NA		
	SAR	NA					NA		
LTE Band 26	Axis	NA					NA		
	SAR	NA					NA		
LTE Band 66	SAR	1.298						3.138	
	Axis	X -67.2 Y 84.6 Z -204						X -7.2 Y -86.1 Z -207	
LTE Band 41	SAR	2.15				NA	NA	NA	
	Axis	X -31.8 Y 89.6 Z -204				NA	NA	NA	
LTE Band 42 Part 27Q	SAR				NA				
	Axis				NA				
LTE Band 48	SAR				NA				
	Axis				NA				
FR1 n2	SAR	1.711						3.127	
	Axis	X -64.4 Y 82.8 Z -204						X -12.1 Y -81.1 Z -207	
FR1 n7	SAR	2.372						2.86	
	Axis	X -30.6 Y 88.8 Z -204						X -31.2 Y -88.5 Z -204	
FR1 n26	SAR	NA					NA		
	Axis	NA					NA		
FR1 n66	SAR	1.497						3.127	
	Axis	X -66.2 Y 83.8 Z -204						X -8.3 Y -84.8 Z -207	
FR1 n41	SAR	2.358				NA	1.493	2.807	
	Axis	X -31.1 Y 89.2 Z -204				NA	X -40.5 Y -86.1 Z -207	X -32.9 Y -86.4 Z -204	
FR1 n77	SAR		NA	NA	NA				NA
	Axis		NA	NA	NA				NA

Back									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	NA					1.885		
	Axis	NA					X 12.5 Y -72.6 Z -207		
GSM1900	SAR	2.336						NA	
	Axis	X -2.8 Y 63.1 Z -207						NA	
WCDMA II	SAR	2.441						1.624	
	Axis	X -2.9 Y 64.2 Z -207						X -52.4 Y -74.2 Z -204	
WCDMA IV	SAR	2.432						2.153	
	Axis	X -6.6 Y 78.4 Z -207						X -42.6 Y -87.7 Z -204	
WCDMA V	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 2	SAR	1.821						1.659	
	Axis	X -3.8 Y 63.2 Z -207						X -51.8 Y -72.1 Z -204	
LTE Band 7	SAR	2.072				NA	NA	1.7	
	Axis	X -5.9 Y 74.9 Z -207				NA	NA	X -13.5 Y -87.5 Z -207	
LTE Band 12	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 13	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 26	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 66	SAR	1.925						2.1	
	Axis	X -6.9 Y 77.1 Z -207						X -40.1 Y -85.7 Z -204	



FCC SAR Test Report

Report No. : FA3D1818

LTE Band 41	SAR	1.97				NA	NA	NA	
	Axis	X -5.2 Y 73.3 Z -207				NA	NA	NA	
LTE Band 42 Part 27Q	SAR				1.633				
	Axis				X 11.2 Y 45.2 Z -207				
LTE Band 48	SAR				1.674				
	Axis				X 6.8 Y 46.2 Z -207				
FR1 n2	SAR	2.483						1.877	
	Axis	X -4.2 Y 64.1 Z -207						X -53.1 Y -74.2 Z -204	
FR1 n7	SAR	2.202						1.894	
	Axis	X -5.1 Y 72.8 Z -207						X -16.1 Y -84.2 Z -207	
FR1 n26	SAR	NA					NA		
	Axis	NA					NA		
FR1 n66	SAR	2.464						2.129	
	Axis	X -7.5 Y 76.1 Z -207						X -42.3 Y -82.6 Z -204	
FR1 n41	SAR	2.229				NA	1.909	1.818	
	Axis	X -4.8 Y 71.1 Z -207				NA	X -5.2 Y -80.1 Z -207	X -15.8 Y -86.3 Z -207	
FR1 n77	SAR		2.081	0.905	1.821				NA
	Axis		X -46.1 Y 80.5 Z -207	X -64.8 Y 76.2 Z -207	X 5.2 Y 42.7 Z -207				NA

Right side									
Band		Ant1	Ant4	Ant5	Ant7	Ant10	Ant0	Ant2	Ant8
GSM850	SAR	NA					NA		
	Axis	NA					NA		
GSM1900	SAR	NA						NA	
	Axis	NA						NA	
WCDMA II	SAR	NA						NA	
	Axis	NA						NA	
WCDMA IV	SAR	NA						NA	
	Axis	NA						NA	
WCDMA V	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 2	SAR	NA						NA	
	Axis	NA						NA	
LTE Band 7	SAR	NA				NA	NA	NA	
	Axis	NA				NA	NA	NA	
LTE Band 12	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 13	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 26	SAR	NA					NA		
	Axis	NA					NA		
LTE Band 66	SAR	NA						NA	
	Axis	NA						NA	
LTE Band 41	SAR	NA				NA	NA	NA	
	Axis	NA				NA	NA	NA	
LTE Band 42 Part 27Q	SAR				NA				
	Axis				NA				
LTE Band 48	SAR				NA				
	Axis				NA				
FR1 n2	SAR	NA						NA	



FCC SAR Test Report

Report No. : FA3D1818

	Axis	NA						NA	
FR1 n7	SAR	NA						NA	
	Axis	NA						NA	
FR1 n26	SAR	NA					NA		
	Axis	NA					NA		
FR1 n66	SAR	NA						NA	
	Axis	NA						NA	
FR1 n41	SAR	NA				NA	NA	NA	
	Axis	NA				NA	NA	NA	
FR1 n77	SAR		NA	2.471	NA				3.186
	Axis		NA	X -29.2 Y -78.6 Z -204	NA				X -28.2 Y 86.2 Z -204

18. Supplemental Tuner Tests Results

General Note:

1. This device implements impedance tuner (208 states) antenna tuning techniques in the LTE Band 5/12/13/17/26, and 5GNR n5/26 for ANT0.
2. This device implements impedance tuner (208 states) antenna tuning techniques in the LTE Band 2/4/5/7/12/13/17/26/38/41/66 and 5GNR n2/5/7/26/38/41/66 for ANT1.
3. This device implements impedance tuner (16 states) antenna tuning techniques in the LTE Band 2/4/7/38/41/66 and 5GNR n2/7/38/41/66 for ANT2.
4. LTE B17 / B5 / B4 / B38 SAR test was covered by LTE B12 / B26 / B66 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
5. 5GNR n26 / n38 SAR test was covered by 5GNR n5 / n41; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
6. Per 2019, April TCBC Workshop titled "RF Exposure Procedures", the following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions.
 - 1) SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
 - 2) Total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
 - 3) The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
 - 4) Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
 - 5) If any single point SAR measurement result is $> 1.2 \text{ W/kg}$ for 1gSAR (or $> 3.0 \text{ W/kg}$ for 10gSAR) for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
7. The above test procedures were followed to demonstrate that the SAR results in Section 16 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
8. To evaluate all of the tuner states, the 208 tuner states for ANT0/1 and the 16 tuner states for ANT2 is divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was $> 1.2 \text{ W/kg}$ or 10g SAR was $> 3.0 \text{ W/kg}$ for a particular band / mode / exposure condition, point SAR measurements were made for all 144 tuner states.
9. According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions.
10. According to KDB 648474 D04 v01r03, this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
11. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

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19. Uncertainty Assessment

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

20. References

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

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