



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 1	ECI 5	40620	2593	23.25	24.00	1.189	42.9	1.009	-0.13	0.552	0.662
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 1	ECI 5	41490	2680	23.24	24.00	1.191	42.9	1.009	-0.05	0.611	0.734
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 5	41055	2636.5	21.70	22.40	1.175	62.9	1.006	0.12	0.521	0.616
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 5	39750	2506	21.55	22.40	1.216	62.9	1.006	-0.01	0.361	0.442
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 5	40185	2549.5	21.63	22.40	1.194	62.9	1.006	0.14	0.498	0.598
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 5	40620	2593	21.59	22.40	1.205	62.9	1.006	-0.15	0.387	0.469
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 5	41490	2680	21.68	22.40	1.180	62.9	1.006	0.07	0.451	0.535
	LTE Band 41C	20M	QPSK	1	0	Back	5mm	Ant 1	ECI 5	41490+41292	2680+2660.2	21.76	22.40	1.159	62.9	1.006	0.04	0.666	0.777
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 4	41055	2636.5	19.05	20.70	1.462	62.9	1.006	0.18	0.345	0.507
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI 4	41055	2636.5	19.01	20.70	1.476	62.9	1.006	-0.17	0.343	0.509
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	41055	2636.5	19.05	20.70	1.462	62.9	1.006	-0.18	0.514	0.756
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	39750	2506	19.00	20.70	1.479	62.9	1.006	-0.16	0.351	0.522
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	40185	2549.5	19.03	20.70	1.469	62.9	1.006	0.15	0.387	0.572
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	40620	2593	18.99	20.70	1.483	62.9	1.006	0.01	0.432	0.644
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	41490	2680	18.76	20.70	1.563	62.9	1.006	0.13	0.460	0.723
87	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	41055	2636.5	19.01	20.70	1.476	62.9	1.006	-0.15	0.573	0.851
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	39750	2506	18.91	20.70	1.51	62.9	1.006	0.01	0.391	0.594
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	40185	2549.5	19.00	20.70	1.479	62.9	1.006	0.06	0.431	0.641
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	40620	2593	18.94	20.70	1.5	62.9	1.006	0.03	0.482	0.727
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	41490	2680	18.79	20.70	1.552	62.9	1.006	0.05	0.460	0.718
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 5	ECI 4	40185	2549.5	18.96	20.70	1.493	62.9	1.006	0.09	0.420	0.631
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	41055	2636.5	20.77	22.30	1.422	42.9	1.009	0.13	0.559	0.802
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	39750	2506	20.66	22.30	1.459	42.9	1.009	0.01	0.381	0.561
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	40185	2549.5	20.75	22.30	1.429	42.9	1.009	0.07	0.419	0.604
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	40620	2593	20.69	22.30	1.449	42.9	1.009	-0.05	0.470	0.687
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	41490	2680	20.51	22.30	1.51	42.9	1.009	-0.11	0.500	0.762
	LTE Band 41C	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	40185+39987	2549.5+2529.7	19.14	20.7	1.432	62.9	1.006	0.02	0.533	0.768
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 5	41055	2636.5	17.48	17.80	1.076	62.9	1.006	-0.14	0.298	0.323
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI 5	41055	2636.5	17.51	17.80	1.069	62.9	1.006	0.04	0.296	0.318
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 5	41055	2636.5	17.48	17.80	1.076	62.9	1.006	0.13	0.444	0.481
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 5	41055	2636.5	17.51	17.80	1.069	62.9	1.006	-0.08	0.495	0.532
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 5	41055	2636.5	19.10	19.40	1.072	42.9	1.009	-0.12	0.483	0.522
	LTE Band 41C	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 5	40185+39987	2549.5+2529.7	17.63	17.8	1.040	62.9	1.006	0.09	0.477	0.499
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 6	ECI 4	56640	3690	18.76	20.40	1.459	62.9	1.006	0.13	0.468	0.687
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 6	ECI 4	55340	3560	18.59	20.40	1.517	62.9	1.006	0.08	0.401	0.612
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 6	ECI 4	55830	3609	18.70	20.40	1.479	62.9	1.006	0.16	0.456	0.678
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 6	ECI 4	55990	3625	18.68	20.40	1.486	62.9	1.006	0.03	0.474	0.709
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 6	ECI 4	56150	3641	18.72	20.40	1.472	62.9	1.006	-0.17	0.473	0.700
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 6	ECI 4	56640	3690	18.72	20.40	1.472	62.9	1.006	0.15	0.480	0.711
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 6	ECI 4	55340	3560	18.56	20.40	1.528	62.9	1.006	0.17	0.397	0.610
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 6	ECI 4	55830	3609	18.64	20.40	1.5	62.9	1.006	0.16	0.448	0.676
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 6	ECI 4	55990	3625	18.58	20.40	1.521	62.9	1.006	0.02	0.464	0.710
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 6	ECI 4	56150	3641	18.63	20.40	1.503	62.9	1.006	-0.01	0.468	0.708
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 6	ECI 4	56640	3690	18.76	20.40	1.459	62.9	1.006	0.09	0.325	0.477
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 6	ECI 4	56640	3690	18.72	20.40	1.472	62.9	1.006	-0.16	0.315	0.466
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 6	ECI 5	56640	3690	18.76	19.00	1.057	62.9	1.006	-0.00	0.468	0.498
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 6	ECI 5	56640	3690	18.72	19.00	1.067	62.9	1.006	0.15	0.480	0.515
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 6	ECI 5	56640	3690	18.76	19.00	1.057	62.9	1.006	0.09	0.325	0.346
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 6	ECI 5	56640	3690	18.72	19.00	1.067	62.9	1.006	-0.16	0.315	0.338
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 7	ECI 4	56640	3690	18.02	19.50	1.406	62.9	1.006	-0.13	0.263	0.372
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 7	ECI 4	56640	3690	17.99	19.50	1.416	62.9	1.006	-0.06	0.226	0.322
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 7	ECI 4	56640	3690	18.02	19.50	1.406	62.9	1.006	-0.13	0.361	0.511
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 7	ECI 4	56640	3690	17.99	19.50	1.416	62.9	1.006	0.17	0.347	0.494
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 7	ECI 5	56640	3690	18.02	18.10	1.019	62.9	1.006	-0.13	0.263	0.270
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 7	ECI 5	56640	3690	17.99	18.10	1.026	62.9	1.006	-0.06	0.226	0.233
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 7	ECI 5	56640	3690	18.02	18.10	1.019	62.9	1.006	-0.13	0.361	0.370
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 7	ECI 5	56640	3690	17.99	18.10	1.026	62.9	1.006	0.17	0.347	0.358
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 1	ECI 4	56150	3641	18.40	19.80	1.38	62.9	1.006	0.15	0.272	0.378
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 1	ECI 4	56150	3641	18.40	19.80	1.38	62.9	1.006	-0.12	0.272	0.378
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 1	ECI 4	56150	3641	18.40	19.80	1.38	62.9	1.006	-0.15	0.394	0.547
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 1	ECI 4	56150	3641	18.40	19.80	1.38	62.9	1.006	0.13	0.401	0.557
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 1	ECI 5	56640	3690	17.07	17.10	1.007	62.9	1.006	-0.07	0.240	0.243
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 1	ECI 5	56640	3690	16.99	17.10	1.026	62.9	1.006	-0.04	0.240	0.248
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 1	ECI 5	56640	3690	17.07	17.10	1.007	62.9	1.006	-0.09	0.357	0.362
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 1	ECI 5	56640	3690	16.99	17.10	1.026	62.9	1.006	0.05	0.354	0.365
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 5	ECI 4	55340	3560	21.55	21.90	1.084	62.9	1.006	-0.15	0.346	0.377
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 5	ECI 4	55340	3560	21.40	21.90	1.122	62.9	1.006	-0.17	0.355	0.401
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 4	55340	3560	21.55	21.90	1.084	62.9	1.006	-0.17	0.598	0.652
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 4	55830	3609	21.54	21.90	1.086	62.9	1.006	0.15	0.617	0.674
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 4	56150	3641	21.46	21.90	1.107	62.9	1.006	0		



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 5	ECI 4	56150	3641	21.33	21.90	1.125	62.9	1.006	0.07	0.640	0.734
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 5	ECI 4	56640	3690	21.21	21.90	1.127	62.9	1.006	-0.06	0.635	0.749
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 5	ECI 4	55340	3560	21.35	21.90	1.140	62.9	1.006	-0.10	0.648	0.740
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 5	ECI 5	55340	3560	21.55	21.90	1.084	62.9	1.006	-0.15	0.346	0.377
	LTE Band 48	20M	QPSK	50	50	Front	5mm	Ant 5	ECI 5	55340	3560	21.40	21.90	1.122	62.9	1.006	-0.17	0.355	0.401
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 5	55340	3560	21.55	21.90	1.084	62.9	1.006	-0.17	0.598	0.652
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 5	55830	3609	21.54	21.90	1.086	62.9	1.006	0.15	0.617	0.674
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 5	56150	3641	21.46	21.90	1.107	62.9	1.006	0.15	0.640	0.713
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 5	56640	3690	21.29	21.90	1.151	62.9	1.006	0.10	0.600	0.695
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 5	ECI 5	55340	3560	21.40	21.90	1.122	62.9	1.006	0.01	0.654	0.738
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 5	ECI 5	55830	3609	21.39	21.90	1.125	62.9	1.006	0.15	0.665	0.753
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 5	ECI 5	56150	3641	21.33	21.90	1.14	62.9	1.006	0.07	0.640	0.734
	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 5	ECI 5	56640	3690	21.21	21.90	1.172	62.9	1.006	-0.06	0.635	0.749
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 5	ECI 5	55340	3560	21.35	21.90	1.135	62.9	1.006	-0.10	0.648	0.740



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	135	Front	5mm	Ant 2	ECI 4	507000	2535	17.58	19.00	1.387	0.04	0.450	0.624
	FR1 n7	50M	BPSK	135	0	Front	5mm	Ant 2	ECI 4	507000	2535	17.66	19.00	1.361	-0.17	0.472	0.642
	FR1 n7	50M	BPSK	1	135	Back	5mm	Ant 2	ECI 4	507000	2535	17.58	19.00	1.387	-0.09	0.551	0.764
	FR1 n7	50M	BPSK	135	0	Back	5mm	Ant 2	ECI 4	507000	2535	17.66	19.00	1.361	-0.12	0.573	0.780
	FR1 n7	50M	BPSK	1	135	Front	5mm	Ant 2	ECI 5	507000	2535	16.62	17.00	1.091	0.01	0.371	0.405
	FR1 n7	50M	BPSK	135	135	Front	5mm	Ant 2	ECI 5	507000	2535	16.65	17.00	1.084	-0.18	0.389	0.422
	FR1 n7	50M	BPSK	1	135	Back	5mm	Ant 2	ECI 5	507000	2535	16.62	17.00	1.091	-0.03	0.454	0.495
	FR1 n7	50M	BPSK	135	135	Back	5mm	Ant 2	ECI 5	507000	2535	16.65	17.00	1.084	-0.11	0.472	0.512
	FR1 n7	50M	BPSK	1	135	Front	5mm	Ant 0	ECI 4	507000	2535	16.60	17.80	1.318	-0.10	0.499	0.658
	FR1 n7	50M	BPSK	135	0	Front	5mm	Ant 0	ECI 4	507000	2535	16.68	17.80	1.294	0.18	0.502	0.650
	FR1 n7	50M	BPSK	1	135	Back	5mm	Ant 0	ECI 4	507000	2535	16.60	17.80	1.318	-0.14	0.559	0.737
	FR1 n7	50M	BPSK	135	0	Back	5mm	Ant 0	ECI 4	507000	2535	16.68	17.80	1.294	-0.15	0.573	0.741
	FR1 n7	50M	BPSK	1	135	Front	5mm	Ant 0	ECI 5	507000	2535	14.98	15.40	1.102	-0.11	0.358	0.395
	FR1 n7	50M	BPSK	135	0	Front	5mm	Ant 0	ECI 5	507000	2535	15.01	15.40	1.094	0.16	0.360	0.394
	FR1 n7	50M	BPSK	1	135	Back	5mm	Ant 0	ECI 5	507000	2535	14.98	15.40	1.102	0.09	0.401	0.442
	FR1 n7	50M	BPSK	135	0	Back	5mm	Ant 0	ECI 5	507000	2535	15.01	15.40	1.094	0.02	0.408	0.446
	FR1 n12	15M	BPSK	1	77	Front	5mm	Ant 0	ECI 4	141500	707.5	22.75	23.90	1.303	-0.11	0.360	0.469
	FR1 n12	15M	BPSK	36	43	Front	5mm	Ant 0	ECI 4	141500	707.5	22.72	23.90	1.312	0.02	0.346	0.454
	FR1 n12	15M	BPSK	1	77	Back	5mm	Ant 0	ECI 4	141500	707.5	22.75	23.90	1.303	-0.01	0.566	0.737
	FR1 n12	15M	BPSK	36	43	Back	5mm	Ant 0	ECI 4	141500	707.5	22.72	23.90	1.312	0.00	0.525	0.689
	FR1 n12	15M	BPSK	1	77	Front	5mm	Ant 0	ECI 5	141500	707.5	22.75	23.20	1.109	-0.11	0.360	0.399
	FR1 n12	15M	BPSK	36	43	Front	5mm	Ant 0	ECI 5	141500	707.5	22.72	23.20	1.117	0.02	0.346	0.386
	FR1 n12	15M	BPSK	1	77	Back	5mm	Ant 0	ECI 5	141500	707.5	22.75	23.20	1.109	-0.01	0.566	0.628
	FR1 n12	15M	BPSK	36	43	Back	5mm	Ant 0	ECI 5	141500	707.5	22.72	23.20	1.117	0.00	0.525	0.586
	FR1 n12	15M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	141500	707.5	24.48	24.80	1.076	-0.15	0.279	0.300
	FR1 n12	15M	BPSK	36	22	Front	5mm	Ant 1	ECI 4	141500	707.5	24.37	24.80	1.104	-0.05	0.297	0.328
	FR1 n12	15M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	141500	707.5	24.48	24.80	1.076	0.17	0.503	0.541
	FR1 n12	15M	BPSK	36	22	Back	5mm	Ant 1	ECI 4	141500	707.5	24.37	24.80	1.104	0.04	0.527	0.582
	FR1 n12	15M	BPSK	1	1	Front	5mm	Ant 1	ECI 5	141500	707.5	24.48	24.80	1.076	-0.15	0.279	0.300
	FR1 n12	15M	BPSK	36	22	Front	5mm	Ant 1	ECI 5	141500	707.5	24.37	24.80	1.104	-0.05	0.297	0.328
	FR1 n12	15M	BPSK	1	1	Back	5mm	Ant 1	ECI 5	141500	707.5	24.48	24.80	1.076	0.17	0.503	0.541
	FR1 n12	15M	BPSK	36	22	Back	5mm	Ant 1	ECI 5	141500	707.5	24.37	24.80	1.104	0.04	0.527	0.582
	FR1 n13	10M	BPSK	1	1	Front	5mm	Ant 0	ECI 4	156400	782	22.43	22.50	1.016	0.16	0.480	0.488
	FR1 n13	10M	BPSK	25	14	Front	5mm	Ant 0	ECI 4	156400	782	22.43	22.50	1.016	0.03	0.508	0.516
	FR1 n13	10M	BPSK	1	1	Back	5mm	Ant 0	ECI 4	156400	782	22.43	22.50	1.016	-0.19	0.729	0.741
	FR1 n13	10M	BPSK	25	14	Back	5mm	Ant 0	ECI 4	156400	782	22.43	22.50	1.016	0.00	0.765	0.777
	FR1 n13	10M	BPSK	1	1	Front	5mm	Ant 0	ECI 5	156400	782	22.43	22.50	1.016	0.16	0.480	0.488
	FR1 n13	10M	BPSK	25	14	Front	5mm	Ant 0	ECI 5	156400	782	22.43	22.50	1.016	0.03	0.508	0.516
	FR1 n13	10M	BPSK	1	1	Back	5mm	Ant 0	ECI 5	156400	782	22.43	22.50	1.016	-0.19	0.729	0.741
	FR1 n13	10M	BPSK	25	14	Back	5mm	Ant 0	ECI 5	156400	782	22.43	22.50	1.016	0.00	0.765	0.777
	FR1 n13	10M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	156400	782	24.01	24.80	1.199	-0.19	0.345	0.414
	FR1 n13	10M	BPSK	25	14	Front	5mm	Ant 1	ECI 4	156400	782	23.99	24.80	1.205	0.04	0.354	0.427
	FR1 n13	10M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	156400	782	24.01	24.80	1.199	-0.19	0.536	0.643
	FR1 n13	10M	BPSK	25	14	Back	5mm	Ant 1	ECI 4	156400	782	23.99	24.80	1.205	0.02	0.554	0.668
	FR1 n13	10M	BPSK	1	50	Front	5mm	Ant 1	ECI 5	156400	782	22.78	23.30	1.127	-0.02	0.280	0.316
	FR1 n13	10M	BPSK	25	27	Front	5mm	Ant 1	ECI 5	156400	782	22.77	23.30	1.13	0.01	0.289	0.327
	FR1 n13	10M	BPSK	1	50	Back	5mm	Ant 1	ECI 5	156400	782	22.78	23.30	1.127	-0.03	0.376	0.424
	FR1 n13	10M	BPSK	25	27	Back	5mm	Ant 1	ECI 5	156400	782	22.77	23.30	1.13	-0.10	0.390	0.441
	FR1 n14	10M	BPSK	1	1	Front	5mm	Ant 0	ECI 4	158600	793	22.29	22.70	1.099	-0.05	0.485	0.533
	FR1 n14	10M	BPSK	25	0	Front	5mm	Ant 0	ECI 4	158600	793	22.39	22.70	1.074	-0.11	0.500	0.537
	FR1 n14	10M	BPSK	1	1	Back	5mm	Ant 0	ECI 4	158600	793	22.29	22.70	1.099	0.03	0.718	0.789
	FR1 n14	10M	BPSK	25	0	Back	5mm	Ant 0	ECI 4	158600	793	22.39	22.70	1.074	-0.16	0.733	0.787
	FR1 n14	10M	BPSK	1	1	Front	5mm	Ant 0	ECI 5	158600	793	22.29	22.50	1.05	-0.05	0.485	0.509
	FR1 n14	10M	BPSK	25	0	Front	5mm	Ant 0	ECI 5	158600	793	22.39	22.50	1.026	-0.11	0.500	0.513
	FR1 n14	10M	BPSK	1	1	Back	5mm	Ant 0	ECI 5	158600	793	22.29	22.50	1.05	0.03	0.718	0.754
	FR1 n14	10M	BPSK	25	0	Back	5mm	Ant 0	ECI 5	158600	793	22.39	22.50	1.026	-0.16	0.733	0.752
	FR1 n14	10M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	158600	793	24.06	24.80	1.186	0.08	0.355	0.421
	FR1 n14	10M	BPSK	25	14	Front	5mm	Ant 1	ECI 4	158600	793	23.99	24.80	1.205	0.10	0.345	0.416
	FR1 n14	10M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	158600	793	24.06	24.80	1.186	-0.03	0.581	0.689
	FR1 n14	10M	BPSK	25	14	Back	5mm	Ant 1	ECI 4	158600	793	23.99	24.80	1.205	0.10	0.566	0.682
	FR1 n14	10M	BPSK	1	1	Front	5mm	Ant 1	ECI 5	158600	793	22.54	23.70	1.306	-0.18	0.230	0.300
	FR1 n14	10M	BPSK	25	14	Front	5mm	Ant 1	ECI 5	158600	793	22.38	23.70	1.355	-0.18	0.227	0.308
	FR1 n14	10M	BPSK	1	1	Back	5mm	Ant 1	ECI 5	158600	793	22.54	23.70	1.306	-0.11	0.345	0.451
	FR1 n14	10M	BPSK	25	14	Back	5mm	Ant 1	ECI 5	158600	793	22.38	23.70	1.355	-0.06	0.341	0.462
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 2	ECI 4	376500	1882.5	19.55	21.30	1.496	-0.04	0.508	0.760
	FR1 n25	40M	BPSK	108	0	Front	5mm	Ant 2	ECI 4	376500	1882.5	19.63	21.30	1.469	0.16	0.504	0.740
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 2	ECI 4	376500	1882.5	19.55	21.30	1.496	-0.02	0.530	0.793
	FR1 n25	40M	BPSK	108	0	Back	5mm	Ant 2	ECI 4	376500	1882.5	19.63	21.30	1.469	0.04	0.526	0.773



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 2	ECI 5	376500	1882.5	19.55	19.90	1.084	-0.04	0.508	0.551
	FR1 n25	40M	BPSK	108	0	Front	5mm	Ant 2	ECI 5	376500	1882.5	19.63	19.90	1.064	0.16	0.504	0.536
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 2	ECI 5	376500	1882.5	19.55	19.90	1.084	-0.02	0.530	0.575
	FR1 n25	40M	BPSK	108	0	Back	5mm	Ant 2	ECI 5	376500	1882.5	19.63	19.90	1.064	0.04	0.526	0.560
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 0	ECI 4	376500	1882.5	14.65	15.70	1.274	-0.15	0.478	0.609
	FR1 n25	40M	BPSK	108	0	Front	5mm	Ant 0	ECI 4	376500	1882.5	14.68	15.70	1.265	-0.04	0.478	0.605
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 0	ECI 4	376500	1882.5	14.65	15.70	1.274	-0.08	0.611	0.778
	FR1 n25	40M	BPSK	108	0	Back	5mm	Ant 0	ECI 4	376500	1882.5	14.68	15.70	1.265	0.13	0.610	0.772
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 0	ECI 5	376500	1882.5	14.65	15.00	1.084	-0.15	0.478	0.518
	FR1 n25	40M	BPSK	108	0	Front	5mm	Ant 0	ECI 5	376500	1882.5	14.68	15.00	1.076	-0.04	0.478	0.514
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 0	ECI 5	376500	1882.5	14.65	15.00	1.084	-0.08	0.611	0.662
	FR1 n25	40M	BPSK	108	0	Back	5mm	Ant 0	ECI 5	376500	1882.5	14.68	15.00	1.076	0.13	0.610	0.656
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 1	ECI 4	376500	1882.5	19.81	20.90	1.285	-0.14	0.447	0.574
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 1	ECI 4	376500	1882.5	19.76	20.90	1.3	-0.00	0.449	0.584
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 1	ECI 4	376500	1882.5	19.81	20.90	1.285	0.06	0.683	0.878
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 1	ECI 4	376500	1882.5	19.76	20.90	1.3	-0.01	0.697	0.906
	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 1	ECI 4	376500	1882.5	19.68	20.90	1.324	-0.04	0.677	0.896
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 1	ECI 5	376500	1882.5	19.81	20.20	1.094	-0.14	0.447	0.489
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 1	ECI 5	376500	1882.5	19.76	20.20	1.107	-0.00	0.449	0.497
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 1	ECI 5	376500	1882.5	19.81	20.20	1.094	0.06	0.683	0.747
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 1	ECI 5	376500	1882.5	19.76	20.20	1.107	-0.01	0.697	0.772
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 5	ECI 4	376500	1882.5	18.08	19.80	1.486	0.02	0.483	0.718
	FR1 n25	40M	BPSK	108	0	Front	5mm	Ant 5	ECI 4	376500	1882.5	18.15	19.80	1.462	0.11	0.468	0.684
93	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 5	ECI 4	376500	1882.5	18.08	19.80	1.486	0.00	0.625	0.929
	FR1 n25	40M	BPSK	108	0	Back	5mm	Ant 5	ECI 4	376500	1882.5	18.15	19.80	1.462	-0.17	0.613	0.896
	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 5	ECI 4	376500	1882.5	18.12	19.80	1.472	0.04	0.619	0.911
	FR1 n25	40M	BPSK	1	108	Front	5mm	Ant 5	ECI 5	376500	1882.5	18.08	18.40	1.076	0.07	0.483	0.520
	FR1 n25	40M	BPSK	108	0	Front	5mm	Ant 5	ECI 5	376500	1882.5	18.15	18.40	1.059	0.06	0.468	0.496
	FR1 n25	40M	BPSK	1	108	Back	5mm	Ant 5	ECI 5	376500	1882.5	18.08	18.40	1.076	0.00	0.625	0.673
	FR1 n25	40M	BPSK	108	0	Back	5mm	Ant 5	ECI 5	376500	1882.5	18.15	18.40	1.059	-0.00	0.613	0.649
	FR1 n26	20M	BPSK	1	1	Front	5mm	Ant 0	ECI 4	166300	831.5	21.63	21.70	1.016	0.07	0.478	0.486
	FR1 n26	20M	BPSK	50	56	Front	5mm	Ant 0	ECI 4	166300	831.5	21.65	21.70	1.012	0.09	0.466	0.472
94	FR1 n26	20M	BPSK	1	1	Back	5mm	Ant 0	ECI 4	166300	831.5	21.63	21.70	1.016	0.04	0.771	0.783
	FR1 n26	20M	BPSK	50	56	Back	5mm	Ant 0	ECI 4	166300	831.5	21.65	21.70	1.012	-0.18	0.754	0.763
	FR1 n26	20M	BPSK	1	1	Front	5mm	Ant 0	ECI 5	166300	831.5	21.63	21.70	1.016	0.07	0.478	0.486
	FR1 n26	20M	BPSK	50	56	Front	5mm	Ant 0	ECI 5	166300	831.5	21.65	21.70	1.012	0.09	0.466	0.472
	FR1 n26	20M	BPSK	1	1	Back	5mm	Ant 0	ECI 5	166300	831.5	21.63	21.70	1.016	0.04	0.771	0.783
	FR1 n26	20M	BPSK	50	56	Back	5mm	Ant 0	ECI 5	166300	831.5	21.65	21.70	1.012	-0.18	0.754	0.763
	FR1 n26	20M	BPSK	1	104	Front	5mm	Ant 1	ECI 4	166300	831.5	24.65	24.70	1.012	0.09	0.364	0.368
	FR1 n26	20M	BPSK	50	28	Front	5mm	Ant 1	ECI 4	166300	831.5	24.62	24.70	1.019	0.08	0.352	0.359
	FR1 n26	20M	BPSK	1	104	Back	5mm	Ant 1	ECI 4	166300	831.5	24.65	24.70	1.012	0.13	0.602	0.609
	FR1 n26	20M	BPSK	50	28	Back	5mm	Ant 1	ECI 4	166300	831.5	24.62	24.70	1.019	-0.07	0.600	0.611
	FR1 n26	20M	BPSK	1	104	Front	5mm	Ant 1	ECI 5	166300	831.5	22.61	24.10	1.409	-0.06	0.222	0.313
	FR1 n26	20M	BPSK	50	56	Front	5mm	Ant 1	ECI 5	166300	831.5	22.65	24.10	1.396	-0.04	0.215	0.300
	FR1 n26	20M	BPSK	1	104	Back	5mm	Ant 1	ECI 5	166300	831.5	22.61	24.10	1.409	-0.04	0.366	0.516
	FR1 n26	20M	BPSK	50	56	Back	5mm	Ant 1	ECI 5	166300	831.5	22.65	24.10	1.396	0.02	0.367	0.512
	FR1 n30	10M	BPSK	1	1	Front	5mm	Ant 2	ECI 4	462000	2310	17.90	19.40	1.413	0.02	0.378	0.534
	FR1 n30	10M	BPSK	25	0	Front	5mm	Ant 2	ECI 4	462000	2310	17.85	19.40	1.429	-0.04	0.387	0.553
	FR1 n30	10M	BPSK	1	1	Back	5mm	Ant 2	ECI 4	462000	2310	17.90	19.40	1.413	0.07	0.437	0.617
	FR1 n30	10M	BPSK	25	0	Back	5mm	Ant 2	ECI 4	462000	2310	17.85	19.40	1.429	0.01	0.445	0.636
	FR1 n30	10M	BPSK	1	1	Front	5mm	Ant 2	ECI 5	462000	2310	17.90	18.00	1.023	0.02	0.378	0.387
	FR1 n30	10M	BPSK	25	0	Front	5mm	Ant 2	ECI 5	462000	2310	17.85	18.00	1.035	-0.04	0.387	0.401
	FR1 n30	10M	BPSK	1	1	Back	5mm	Ant 2	ECI 5	462000	2310	17.90	18.00	1.023	0.07	0.437	0.447
	FR1 n30	10M	BPSK	25	0	Back	5mm	Ant 2	ECI 5	462000	2310	17.85	18.00	1.035	0.01	0.445	0.461
	FR1 n30	10M	BPSK	1	50	Front	5mm	Ant 0	ECI 4	462000	2310	15.41	17.20	1.51	0.00	0.286	0.432
	FR1 n30	10M	BPSK	25	14	Front	5mm	Ant 0	ECI 4	462000	2310	15.33	17.20	1.538	-0.06	0.287	0.441
	FR1 n30	10M	BPSK	1	50	Back	5mm	Ant 0	ECI 4	462000	2310	15.41	17.20	1.51	0.03	0.453	0.684
95	FR1 n30	10M	BPSK	25	14	Back	5mm	Ant 0	ECI 4	462000	2310	15.33	17.20	1.538	-0.09	0.454	0.698
	FR1 n30	10M	BPSK	1	50	Front	5mm	Ant 0	ECI 5	462000	2310	15.41	15.80	1.094	0.00	0.286	0.313
	FR1 n30	10M	BPSK	25	14	Front	5mm	Ant 0	ECI 5	462000	2310	15.33	15.80	1.114	-0.06	0.287	0.320
	FR1 n30	10M	BPSK	1	50	Back	5mm	Ant 0	ECI 5	462000	2310	15.41	15.80	1.094	0.03	0.453	0.496
	FR1 n30	10M	BPSK	25	14	Back	5mm	Ant 0	ECI 5	462000	2310	15.33	15.80	1.114	-0.09	0.454	0.506
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 2	ECI 4	349000	1745	20.89	21.80	1.233	-0.15	0.648	0.799
	FR1 n66	45M	BPSK	120	0	Front	5mm	Ant 2	ECI 4	349000	1745	20.88	21.80	1.236	0.11	0.619	0.765
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 2	ECI 4	349000	1745	20.89	21.80	1.233	-0.05	0.605	0.746
	FR1 n66	45M	BPSK	120	0	Back	5mm	Ant 2	ECI 4	349000	1745	20.88	21.80	1.236	0.09	0.588	0.727
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 2	ECI 5	349000	1745	20.89	21.30	1.099	-0.15	0.648	0.712
	FR1 n66	45M	BPSK	120	0	Front	5mm	Ant 2	ECI 5	349000	1745	20.88	21.30	1.102	0.11	0.619	0.682
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 2	ECI 5	349000	1745	20.89	21.30	1.099	-0.05	0.605	0.665
	FR1 n66	45M	BPSK	120	0	Back	5mm	Ant 2	ECI 5	349000	1745	20.88	21.30	1.102	0.09	0.588	0.648
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 0	ECI 4	349000	1745	14.69	16.50	1.517	0.02	0.425	0.645
	FR1 n66	45M	BPSK	120	60	Front	5mm	Ant 0	ECI 4	349000	1745	14.75	16.50	1.496	-0.00	0.423	0.633



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 0	ECI 4	349000	1745	14.69	16.50	1.517	0.03	0.493	0.748
	FR1 n66	45M	BPSK	120	60	Back	5mm	Ant 0	ECI 4	349000	1745	14.75	16.50	1.496	0.04	0.491	0.735
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 0	ECI 5	349000	1745	14.69	15.10	1.099	0.02	0.425	0.467
	FR1 n66	45M	BPSK	120	60	Front	5mm	Ant 0	ECI 5	349000	1745	14.75	15.10	1.084	-0.00	0.423	0.459
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 0	ECI 5	349000	1745	14.69	15.10	1.099	0.03	0.493	0.542
	FR1 n66	45M	BPSK	120	60	Back	5mm	Ant 0	ECI 5	349000	1745	14.75	15.10	1.084	0.04	0.491	0.532
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 1	ECI 4	349000	1745	22.34	24.10	1.5	-0.09	0.327	0.491
	FR1 n66	45M	BPSK	120	60	Front	5mm	Ant 1	ECI 4	349000	1745	22.33	24.10	1.503	0.19	0.313	0.470
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 1	ECI 4	349000	1745	22.34	24.10	1.5	-0.11	0.547	0.821
	FR1 n66	45M	BPSK	120	60	Back	5mm	Ant 1	ECI 4	349000	1745	22.33	24.10	1.503	-0.10	0.548	0.824
	FR1 n66	45M	BPSK	240	0	Back	5mm	Ant 1	ECI 4	349000	1745	22.25	24.10	1.531	-0.13	0.522	0.799
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 1	ECI 5	349000	1745	22.34	23.00	1.164	-0.09	0.327	0.381
	FR1 n66	45M	BPSK	120	60	Front	5mm	Ant 1	ECI 5	349000	1745	22.33	23.00	1.167	0.19	0.313	0.365
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 1	ECI 5	349000	1745	22.34	23.00	1.164	-0.11	0.547	0.637
	FR1 n66	45M	BPSK	120	60	Back	5mm	Ant 1	ECI 5	349000	1745	22.33	23.00	1.167	-0.10	0.548	0.640
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 5	ECI 4	349000	1745	17.90	19.30	1.38	-0.15	0.427	0.589
	FR1 n66	45M	BPSK	120	0	Front	5mm	Ant 5	ECI 4	349000	1745	17.89	19.30	1.384	0.16	0.442	0.612
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 5	ECI 4	349000	1745	17.90	19.30	1.38	0.02	0.586	0.809
96	FR1 n66	45M	BPSK	120	0	Back	5mm	Ant 5	ECI 4	349000	1745	17.89	19.30	1.384	-0.02	0.620	0.858
	FR1 n66	45M	BPSK	240	0	Back	5mm	Ant 5	ECI 4	349000	1745	17.80	19.30	1.413	-0.12	0.599	0.846
	FR1 n66	45M	BPSK	1	120	Front	5mm	Ant 5	ECI 5	349000	1745	17.90	17.90	1.0	0.02	0.427	0.427
	FR1 n66	45M	BPSK	120	0	Front	5mm	Ant 5	ECI 5	349000	1745	17.89	17.90	1.002	-0.13	0.442	0.443
	FR1 n66	45M	BPSK	1	120	Back	5mm	Ant 5	ECI 5	349000	1745	17.90	17.90	1.0	-0.15	0.586	0.586
	FR1 n66	45M	BPSK	120	0	Back	5mm	Ant 5	ECI 5	349000	1745	17.89	17.90	1.002	-0.02	0.620	0.621
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 2	ECI 4	340500	1702.5	21.37	23.10	1.489	0.05	0.463	0.689
	FR1 n70	15M	BPSK	36	0	Front	5mm	Ant 2	ECI 4	340500	1702.5	21.33	23.10	1.503	-0.14	0.442	0.664
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 2	ECI 4	340500	1702.5	21.37	23.10	1.489	0.06	0.488	0.727
	FR1 n70	15M	BPSK	36	0	Back	5mm	Ant 2	ECI 4	340500	1702.5	21.33	23.10	1.503	0.09	0.463	0.696
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 2	ECI 5	340500	1702.5	21.37	21.70	1.079	0.05	0.463	0.500
	FR1 n70	15M	BPSK	36	0	Front	5mm	Ant 2	ECI 5	340500	1702.5	21.33	21.70	1.089	-0.14	0.442	0.481
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 2	ECI 5	340500	1702.5	21.37	21.70	1.079	0.06	0.488	0.527
	FR1 n70	15M	BPSK	36	0	Back	5mm	Ant 2	ECI 5	340500	1702.5	21.33	21.70	1.089	0.09	0.463	0.504
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 0	ECI 4	340500	1702.5	15.31	17.20	1.545	-0.16	0.480	0.742
	FR1 n70	15M	BPSK	36	0	Front	5mm	Ant 0	ECI 4	340500	1702.5	15.29	17.20	1.552	-0.05	0.465	0.722
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 0	ECI 4	340500	1702.5	15.31	17.20	1.545	-0.10	0.462	0.714
	FR1 n70	15M	BPSK	36	0	Back	5mm	Ant 0	ECI 4	340500	1702.5	15.29	17.20	1.552	0.03	0.452	0.702
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 0	ECI 5	340500	1702.5	15.31	15.40	1.021	-0.16	0.480	0.490
	FR1 n70	15M	BPSK	36	0	Front	5mm	Ant 0	ECI 5	340500	1702.5	15.29	15.40	1.026	-0.05	0.465	0.477
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 0	ECI 5	340500	1702.5	15.31	15.40	1.021	-0.10	0.462	0.472
	FR1 n70	15M	BPSK	36	0	Back	5mm	Ant 0	ECI 5	340500	1702.5	15.29	15.40	1.026	0.03	0.452	0.464
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 1	ECI 4	340500	1702.5	23.32	24.80	1.406	0.07	0.252	0.354
	FR1 n70	15M	BPSK	36	22	Front	5mm	Ant 1	ECI 4	340500	1702.5	23.21	24.80	1.442	0.04	0.238	0.343
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 1	ECI 4	340500	1702.5	23.32	24.80	1.406	-0.01	0.599	0.842
	FR1 n70	15M	BPSK	36	22	Back	5mm	Ant 1	ECI 4	340500	1702.5	23.21	24.80	1.442	-0.02	0.566	0.816
	FR1 n70	15M	BPSK	36	43	Back	5mm	Ant 1	ECI 4	340500	1702.5	23.27	24.30	1.268	0.05	0.561	0.711
	FR1 n70	15M	BPSK	75	0	Back	5mm	Ant 1	ECI 4	340500	1702.5	23.26	24.30	1.271	0.10	0.572	0.727
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 1	ECI 5	340500	1702.5	23.32	24.30	1.253	0.07	0.252	0.316
	FR1 n70	15M	BPSK	36	22	Front	5mm	Ant 1	ECI 5	340500	1702.5	23.21	24.30	1.285	0.04	0.238	0.306
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 1	ECI 5	340500	1702.5	23.32	24.30	1.253	-0.01	0.599	0.751
	FR1 n70	15M	BPSK	36	22	Back	5mm	Ant 1	ECI 5	340500	1702.5	23.21	24.30	1.285	-0.02	0.566	0.727
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 5	ECI 4	340500	1702.5	17.51	19.30	1.51	-0.05	0.428	0.646
	FR1 n70	15M	BPSK	36	0	Front	5mm	Ant 5	ECI 4	340500	1702.5	17.52	19.30	1.507	-0.07	0.419	0.631
97	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 5	ECI 4	340500	1702.5	17.51	19.30	1.51	-0.10	0.573	0.865
	FR1 n70	15M	BPSK	36	0	Back	5mm	Ant 5	ECI 4	340500	1702.5	17.52	19.30	1.507	0.12	0.561	0.845
	FR1 n70	15M	BPSK	75	0	Back	5mm	Ant 5	ECI 4	340500	1702.5	17.52	19.30	1.507	-0.03	0.563	0.848
	FR1 n70	15M	BPSK	1	77	Front	5mm	Ant 5	ECI 5	340500	1702.5	17.51	17.90	1.094	-0.05	0.428	0.468
	FR1 n70	15M	BPSK	36	0	Front	5mm	Ant 5	ECI 5	340500	1702.5	17.52	17.90	1.091	-0.07	0.419	0.457
	FR1 n70	15M	BPSK	1	77	Back	5mm	Ant 5	ECI 5	340500	1702.5	17.51	17.90	1.094	-0.10	0.573	0.627
	FR1 n70	15M	BPSK	36	0	Back	5mm	Ant 5	ECI 5	340500	1702.5	17.52	17.90	1.091	0.12	0.561	0.612
	FR1 n71	35M	BPSK	1	1	Front	5mm	Ant 0	ECI 4	136100	680.5	24.66	24.80	1.033	-0.11	0.446	0.461
	FR1 n71	35M	BPSK	90	45	Front	5mm	Ant 0	ECI 4	136100	680.5	24.68	24.80	1.028	-0.03	0.512	0.526
	FR1 n71	35M	BPSK	1	1	Back	5mm	Ant 0	ECI 4	136100	680.5	24.66	24.80	1.033	0.14	0.653	0.675
98	FR1 n71	35M	BPSK	90	45	Back	5mm	Ant 0	ECI 4	136100	680.5	24.68	24.80	1.028	-0.00	0.768	0.790
	FR1 n71	35M	BPSK	1	1	Front	5mm	Ant 0	ECI 5	136100	680.5	24.66	24.80	1.033	-0.11	0.446	0.461
	FR1 n71	35M	BPSK	90	45	Front	5mm	Ant 0	ECI 5	136100	680.5	24.68	24.80	1.028	-0.03	0.512	0.526
	FR1 n71	35M	BPSK	1	1	Back	5mm	Ant 0	ECI 5	136100	680.5	24.66	24.80	1.033	0.14	0.653	0.675
	FR1 n71	35M	BPSK	90	45	Back	5mm	Ant 0	ECI 5	136100	680.5	24.68	24.80	1.028	-0.00	0.768	0.790
	FR1 n71	35M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	136100	680.5	24.27	24.80	1.13	0.01	0.276	0.312
	FR1 n71	35M	BPSK	90	45	Front	5mm	Ant 1	ECI 4	136100	680.5	24.26	24.80	1.132	-0.02	0.279	0.316
	FR1 n71	35M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	136100	680.5	24.27	24.80	1.13	0.00	0.444	0.502
	FR1 n71	35M	BPSK	90	45	Back	5mm	Ant 1	ECI 4	136100	680.5	24.26	24.80	1.132	0.02	0.462	0.523
	FR1 n71	35M	BPSK	1	1	Front	5mm	Ant 1	ECI 5	136100	680.5	24.27	24.80	1.13	0.01	0.276	0.312



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	FR1 n71	35M	BPSK	90	45	Front	5mm	Ant 1	ECI 5	136100	680.5	24.26	24.80	1.132	-0.02	0.279	0.316
	FR1 n71	35M	BPSK	1	1	Back	5mm	Ant 1	ECI 5	136100	680.5	24.27	24.80	1.13	0.00	0.444	0.502
	FR1 n71	35M	BPSK	90	45	Back	5mm	Ant 1	ECI 5	136100	680.5	24.26	24.80	1.132	0.02	0.462	0.523
	FR1 n41	100M	BPSK	1	137	Front	5mm	Ant 2	ECI 4	518598	2592.99	16.91	18.70	1.51	-0.04	0.355	0.536
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 2	ECI 4	518598	2592.99	16.76	18.70	1.563	-0.14	0.329	0.514
	FR1 n41	100M	BPSK	1	137	Back	5mm	Ant 2	ECI 4	518598	2592.99	16.91	18.70	1.51	-0.10	0.487	0.735
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 2	ECI 4	518598	2592.99	16.76	18.70	1.563	0.15	0.459	0.717
	FR1 n41_HPUE	100M	BPSK	1	137	Back	5mm	Ant 2	ECI 4	518598	2592.99	19.85	21.70	1.531	-0.01	0.372	0.670
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 2	ECI 4	518598+528594	2592.99	16.82	18.7	1.542	-0.11	0.426	0.657
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 2	ECI 4	518598+537582	2592.99	16.85	18.7	1.531	0.05	0.463	0.709
	FR1 n41	100M	BPSK	1	137	Front	5mm	Ant 2	ECI 5	518598	2592.99	16.91	17.10	1.045	-0.04	0.355	0.371
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 2	ECI 5	518598	2592.99	16.76	17.10	1.081	-0.14	0.329	0.356
	FR1 n41	100M	BPSK	1	137	Back	5mm	Ant 2	ECI 5	518598	2592.99	16.91	17.10	1.045	-0.10	0.487	0.509
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 2	ECI 5	518598	2592.99	16.76	17.10	1.081	0.15	0.459	0.496
	FR1 n41_HPUE	100M	BPSK	1	137	Back	5mm	Ant 2	ECI 5	518598	2592.99	19.85	20.10	1.059	-0.01	0.372	0.463
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 2	ECI 5	518598+528594	2592.99	16.82	17.1	1.067	-0.11	0.426	0.455
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 2	ECI 5	518598+537582	2592.99	16.85	17.1	1.059	0.05	0.463	0.490
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 0	ECI 4	518598	2592.99	17.01	17.80	1.199	0.04	0.466	0.559
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 0	ECI 4	518598	2592.99	17.05	17.80	1.189	-0.11	0.390	0.464
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 0	ECI 4	518598	2592.99	17.01	17.80	1.199	-0.01	0.646	0.775
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 0	ECI 4	518598	2592.99	17.05	17.80	1.189	0.02	0.481	0.572
	FR1 n41_HPUE	100M	BPSK	1	137	Back	5mm	Ant 0	ECI 4	518598	2592.99	20.03	20.80	1.194	0.06	0.526	0.739
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 0	ECI 4	518598+528594	2592.99	16.86	17.8	1.242	-0.06	0.547	0.679
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 0	ECI 4	518598+537582	2592.99	16.82	17.8	1.253	-0.02	0.583	0.730
	FR1 n41	100M	BPSK	1	137	Front	5mm	Ant 0	ECI 5	518598	2592.99	16.09	16.10	1.002	-0.18	0.322	0.323
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 0	ECI 5	518598	2592.99	16.02	16.10	1.019	0.09	0.269	0.274
	FR1 n41	100M	BPSK	1	137	Back	5mm	Ant 0	ECI 5	518598	2592.99	16.09	16.10	1.002	-0.05	0.446	0.447
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 0	ECI 5	518598	2592.99	16.02	16.10	1.019	-0.07	0.332	0.338
	FR1 n41_HPUE	100M	BPSK	1	137	Back	5mm	Ant 0	ECI 5	518598	2592.99	19.09	19.10	1.002	0.00	0.363	0.428
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 0	ECI 5	518598+528594	2592.99	15.94	16.1	1.038	-0.12	0.380	0.394
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 0	ECI 5	518598+537582	2592.99	15.89	16.1	1.050	0.03	0.361	0.379
	FR1 n41	100M	BPSK	1	137	Front	5mm	Ant 1	ECI 4	518598	2592.99	19.63	20.30	1.167	0.03	0.388	0.453
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 1	ECI 4	518598	2592.99	19.54	20.30	1.191	0.06	0.527	0.628
	FR1 n41	100M	BPSK	1	137	Back	5mm	Ant 1	ECI 4	518598	2592.99	19.63	20.30	1.167	-0.12	0.550	0.642
99	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 1	ECI 4	518598	2592.99	19.54	20.30	1.191	-0.15	0.743	0.885
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 1	ECI 4	518598	2592.99	19.42	20.30	1.225	-0.08	0.707	0.866
	FR1 n41_HPUE	100M	BPSK	135	0	Back	5mm	Ant 1	ECI 4	518598	2592.99	22.50	23.30	1.202	-0.02	0.602	0.851
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 1	ECI 4	518598+528594	2592.99	19.79	20.3	1.125	-0.01	0.669	0.753
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 1	ECI 4	518598+537582	2592.99	19.8	20.3	1.122	0.03	0.684	0.767
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 1	ECI 5	518598	2592.99	17.30	17.30	1.0	-0.09	0.216	0.216
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 1	ECI 5	518598	2592.99	17.27	17.30	1.007	0.09	0.291	0.293
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 1	ECI 5	518598	2592.99	17.30	17.30	1.0	0.12	0.306	0.306
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 1	ECI 5	518598	2592.99	17.27	17.30	1.007	-0.11	0.410	0.413
	FR1 n41_HPUE	100M	BPSK	135	0	Back	5mm	Ant 1	ECI 5	518598	2592.99	20.24	20.30	1.014	-0.13	0.332	0.396
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 1	ECI 5	518598+528594	2592.99	16.77	17.3	1.130	-0.05	0.312	0.353
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 1	ECI 5	518598+537582	2592.99	16.78	17.3	1.127	0.12	0.325	0.366
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 5	ECI 4	518598	2592.99	16.17	17.90	1.489	-0.16	0.527	0.785
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 5	ECI 4	518598	2592.99	15.92	17.90	1.578	0.18	0.423	0.667
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 5	ECI 4	518598	2592.99	16.17	17.90	1.489	-0.18	0.572	0.852
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 5	ECI 4	518598	2592.99	15.92	17.90	1.578	0.03	0.489	0.772
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 5	ECI 4	518598	2592.99	16.00	17.90	1.549	-0.17	0.528	0.818
	FR1 n41_HPUE	100M	BPSK	1	137	Back	5mm	Ant 5	ECI 4	518598	2592.99	19.10	20.90	1.514	0.07	0.443	0.789
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 5	ECI 4	518598+528594	2592.99	16.56	17.9	1.361	-0.11	0.583	0.793
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 5	ECI 4	518598+537582	2592.99	16.57	17.9	1.358	0.03	0.571	0.775
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 5	ECI 5	518598	2592.99	16.17	16.30	1.03	-0.16	0.527	0.543
	FR1 n41	100M	BPSK	135	0	Front	5mm	Ant 5	ECI 5	518598	2592.99	15.92	16.30	1.091	0.18	0.423	0.461
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 5	ECI 5	518598	2592.99	16.17	16.30	1.03	-0.18	0.572	0.589
	FR1 n41	100M	BPSK	135	0	Back	5mm	Ant 5	ECI 5	518598	2592.99	15.92	16.30	1.091	0.03	0.489	0.533
	FR1 n41_HPUE	100M	BPSK	1	137	Back	5mm	Ant 5	ECI 5	518598	2592.99	19.10	19.30	1.047	0.07	0.443	0.545
	FR1 n41B	50M	BPSK	64	69	Back	5mm	Ant 5	ECI 5	518598+528594	2592.99	15.65	16.3	1.161	0.08	0.482	0.560
	FR1 n41C	90M	BPSK	108	137	Back	5mm	Ant 5	ECI 5	518598+537582	2592.99	15.65	16.3	1.161	-0.11	0.442	0.513
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 6	ECI 4	641666	3624.99	18.93	19.50	1.140	-0.11	0.651	0.742
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 6	ECI 4	641666	3624.99	18.90	19.50	1.148	-0.12	0.632	0.726
	FR1 n48	40M	BPSK	100	0	Front	5mm	Ant 6	ECI 4	641666	3624.99	18.87	19.50	1.156	-0.17	0.615	0.711
	FR1 n48	40M	BPSK	1	0	Front	5mm	Ant 6	ECI 4	638000	3570	14.02	14.50	1.117	-0.16	0.178	0.199
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 6	ECI 4	638000	3570	13.85	14.00	1.035	-0.02	0.177	0.183
	FR1 n48	20M	BPSK	1	49	Front	5mm	Ant 6	ECI 4	637334	3560.01	18.95	19.50	1.135	0.15	0.555	0.630
	FR1 n48	20M	BPSK	25	12	Front	5mm	Ant 6	ECI 4	637334	3560.01	18.88	19.50	1.153	-0.09	0.564	0.650
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 6	ECI 4	645332	3679.98	13.90	14.00	1.023	0.11	0.244	0.250
	FR1 n48	30M	BPSK	1	77	Front	5mm	Ant 6	ECI 4	645666	3684.99	14.03	14.50	1.114	-0.05	0.250	0.279
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 6	ECI 4	645332	3679.98	13.84	14.00	1.038	-0.08	0.235	0.244
	FR1 n48	20M	BPSK	1	1	Front	5mm	Ant 6	ECI 4	646000	3690	18.92	19.50	1.143	-0.15	0.773	0.884
	FR1 n48	30M	BPSK	36	18	Front	5mm	Ant 6	ECI 4	645666	3684.99	18.85	19.50	1.161	0.16	0.744	0.864



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 6	ECI 4	641666	3624.99	18.93	19.50	1.140	0.05	0.609	0.694
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 6	ECI 4	641666	3624.99	18.90	19.50	1.148	0.05	0.590	0.677
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 6	ECI 4	641666	3624.99	18.87	19.50	1.156	0.14	0.569	0.658
	FR1 n48	40M	BPSK	1	0	Back	5mm	Ant 6	ECI 4	638000	3570	14.02	14.50	1.117	-0.03	0.167	0.187
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 6	ECI 4	638000	3570	13.85	14.00	1.035	-0.15	0.165	0.171
	FR1 n48	20M	BPSK	1	49	Back	5mm	Ant 6	ECI 4	637334	3560.01	18.95	19.50	1.135	0.02	0.519	0.589
	FR1 n48	20M	BPSK	25	12	Back	5mm	Ant 6	ECI 4	637334	3560.01	18.88	19.50	1.153	0.07	0.528	0.609
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 6	ECI 4	645332	3679.98	13.90	14.00	1.023	0.16	0.228	0.233
	FR1 n48	30M	BPSK	1	77	Back	5mm	Ant 6	ECI 4	645666	3684.99	14.03	14.50	1.114	0.13	0.234	0.261
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 6	ECI 4	645332	3679.98	13.84	14.00	1.038	-0.18	0.221	0.229
	FR1 n48	20M	BPSK	1	1	Back	5mm	Ant 6	ECI 4	646000	3690	18.92	19.50	1.143	0.02	0.723	0.826
	FR1 n48	30M	BPSK	36	18	Back	5mm	Ant 6	ECI 4	645666	3684.99	18.85	19.50	1.161	0.16	0.696	0.808
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 6	ECI 5	641666	3624.99	15.39	16.80	1.384	-0.03	0.288	0.399
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 6	ECI 5	641666	3624.99	15.35	16.80	1.396	0.07	0.279	0.389
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 6	ECI 5	641666	3624.99	15.39	16.80	1.384	0	0.270	0.374
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 6	ECI 5	641666	3624.99	15.35	16.80	1.396	0.01	0.261	0.364
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 7	ECI 4	641666	3624.99	17.09	17.50	1.099	-0.02	0.492	0.541
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 7	ECI 4	641666	3624.99	16.80	17.50	1.175	0.1	0.474	0.557
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 7	ECI 4	641666	3624.99	17.09	17.50	1.099	0.04	0.727	0.799
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 7	ECI 4	641666	3624.99	16.80	17.50	1.175	0.13	0.716	0.841
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 7	ECI 4	641666	3624.99	16.82	17.50	1.169	-0.18	0.170	0.199
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 7	ECI 4	638000	3570	13.30	13.50	1.047	-0.11	0.337	0.353
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 7	ECI 4	638000	3570	13.23	13.50	1.064	-0.16	0.340	0.362
	FR1 n48	20M	BPSK	1	49	Back	5mm	Ant 7	ECI 4	637168	3560.01	16.90	17.50	1.148	-0.15	0.771	0.885
	FR1 n48	20M	BPSK	25	12	Back	5mm	Ant 7	ECI 4	637334	3560.01	16.80	17.50	1.175	-0.1	0.772	0.907
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 7	ECI 4	645332	3679.98	13.32	13.50	1.042	0	0.321	0.334
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 7	ECI 4	645332	3679.98	13.35	13.50	1.035	-0.04	0.332	0.344
	FR1 n48	20M	BPSK	1	1	Back	5mm	Ant 7	ECI 4	646000	3690	16.97	17.50	1.130	-0.15	0.742	0.838
	FR1 n48	30M	BPSK	36	18	Back	5mm	Ant 7	ECI 4	645666	3684.99	16.93	17.50	1.140	0.11	0.756	0.862
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 7	ECI 5	641666	3624.99	15.28	15.70	1.102	-0.06	0.303	0.334
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 7	ECI 5	641666	3624.99	15.40	15.70	1.072	-0.14	0.310	0.332
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 7	ECI 5	641666	3624.99	15.28	15.70	1.102	-0.19	0.459	0.506
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 7	ECI 5	641666	3624.99	15.40	15.70	1.072	0.01	0.470	0.504
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 1	ECI 4	641666	3624.99	18.56	20.30	1.493	0.08	0.403	0.602
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 1	ECI 4	641666	3624.99	18.55	20.30	1.496	-0.17	0.405	0.606
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 1	ECI 4	638000	3570	13.79	14.00	1.050	-0.03	0.125	0.131
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 1	ECI 4	638000	3570	13.63	14.00	1.089	0.14	0.126	0.137
	FR1 n48	20M	BPSK	1	49	Front	5mm	Ant 1	ECI 4	637334	3560.01	18.54	20.30	1.500	0.11	0.371	0.557
	FR1 n48	20M	BPSK	25	12	Front	5mm	Ant 1	ECI 4	637334	3560.01	18.52	20.30	1.507	-0.05	0.389	0.586
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	645332	3679.98	13.68	14.00	1.076	0.18	0.123	0.132
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 1	ECI 4	645332	3679.98	13.59	14.00	1.099	0.14	0.123	0.135
	FR1 n48	20M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	646000	3690	18.53	20.30	1.503	-0.17	0.377	0.567
	FR1 n48	30M	BPSK	36	18	Front	5mm	Ant 1	ECI 4	645666	3684.99	18.54	20.30	1.500	0.17	0.382	0.573
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 1	ECI 4	641666	3624.99	18.56	20.30	1.493	-0.05	0.638	0.953
100	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 1	ECI 4	641666	3624.99	18.55	20.30	1.496	-0.05	0.642	0.960
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 1	ECI 4	641666	3624.99	18.55	20.30	1.496	0.08	0.628	0.939
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 1	ECI 4	638000	3570	13.79	14.00	1.050	0.01	0.197	0.207
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 1	ECI 4	638000	3570	13.63	14.00	1.089	0.03	0.200	0.218
	FR1 n48	20M	BPSK	1	49	Back	5mm	Ant 1	ECI 4	637334	3560.01	18.54	20.30	1.500	-0.08	0.588	0.882
	FR1 n48	20M	BPSK	25	12	Back	5mm	Ant 1	ECI 4	637334	3560.01	18.52	20.30	1.507	-0.08	0.616	0.928
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	645332	3679.98	13.68	14.00	1.076	0.1	0.195	0.210
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 1	ECI 4	645332	3679.98	13.59	14.00	1.099	-0.18	0.194	0.213
	FR1 n48	20M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	646000	3690	18.53	20.30	1.503	0.1	0.598	0.899
	FR1 n48	30M	BPSK	36	18	Back	5mm	Ant 1	ECI 4	645666	3684.99	18.54	20.30	1.500	0.12	0.607	0.911
	FR1 n48	40M	BPSK	1	105	Front	5mm	Ant 1	ECI 5	641666	3624.99	15.72	16.80	1.282	0.01	0.210	0.269
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 1	ECI 5	641666	3624.99	15.71	16.80	1.285	0.1	0.211	0.271
	FR1 n48	40M	BPSK	1	105	Back	5mm	Ant 1	ECI 5	641666	3624.99	15.72	16.80	1.282	-0.17	0.332	0.426
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 1	ECI 5	641666	3624.99	15.71	16.80	1.285	0.04	0.334	0.429
	FR1 n48	40M	BPSK	1	0	Front	5mm	Ant 5	ECI 4	641666	3624.99	18.46	19.50	1.271	0.08	0.387	0.492
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 5	ECI 4	641666	3624.99	18.44	19.50	1.276	0.01	0.375	0.479
	FR1 n48	40M	BPSK	1	0	Back	5mm	Ant 5	ECI 4	641666	3624.99	18.46	19.50	1.271	0.03	0.726	0.923
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 5	ECI 4	641666	3624.99	18.44	19.50	1.276	-0.08	0.736	0.939
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 5	ECI 4	641666	3624.99	18.43	19.50	1.279	-0.08	0.736	0.941
	FR1 n48	40M	BPSK	1	104	Back	5mm	Ant 5	ECI 4	638000	3570	12.73	13.00	1.064	0.1	0.198	0.211
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 5	ECI 4	638000	3570	12.52	13.00	1.117	-0.18	0.192	0.214
	FR1 n48	20M	BPSK	1	49	Back	5mm	Ant 5	ECI 4	637334	3560.01	18.50	19.50	1.259	0.1	0.732	0.922
	FR1 n48	20M	BPSK	25	12	Back	5mm	Ant 5	ECI 4	637334	3560.01	18.48	19.50	1.265	-0.15	0.744	0.941
	FR1 n48	40M	BPSK	1	0	Back	5mm	Ant 5	ECI 4	645332	3679.98	12.74	13.00	1.062	0.12	0.168	0.178
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 5	ECI 4	645332	3679.98	12.53	13.00	1.114	0.08	0.154	0.172
	FR1 n48	20M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	646000	3690	18.41	19.50	1.285	-0.17	0.621	0.798
	FR1 n48	30M	BPSK	36	18	Back	5mm	Ant 5	ECI 4	645666	3684.99	18.43	19.50	1.279	-0.03	0.599	0.766
	FR1 n48	40M	BPSK	1	0	Front	5mm	Ant 5	ECI 5	641666	3624.99	18.46	18.50	1.009	0.08	0.387	0.390
	FR1 n48	40M	BPSK	50	25	Front	5mm	Ant 5	ECI 5	641666	3624.99	18.44	18.50	1.014	0.01	0.375	0.380



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	FR1 n48	40M	BPSK	1	0	Back	5mm	Ant 5	ECI 5	641666	3624.99	18.46	18.50	1.009	0.03	0.726	0.733
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 5	ECI 5	641666	3624.99	18.44	18.50	1.014	-0.08	0.736	0.746
	FR1 n48	40M	BPSK	1	104	Back	5mm	Ant 5	ECI 5	638000	3570	12.73	13.00	1.064	0.1	0.198	0.211
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 5	ECI 5	638000	3570	12.52	13.00	1.117	-0.18	0.192	0.214
	FR1 n48	20M	BPSK	1	49	Back	5mm	Ant 5	ECI 5	637334	3560.01	18.50	18.50	1.000	0.1	0.732	0.732
	FR1 n48	20M	BPSK	25	12	Back	5mm	Ant 5	ECI 5	637334	3560.01	18.48	18.50	1.005	-0.15	0.744	0.748
	FR1 n48	40M	BPSK	1	0	Back	5mm	Ant 5	ECI 5	645332	3679.98	12.74	13.00	1.062	0.12	0.168	0.178
	FR1 n48	40M	BPSK	50	25	Back	5mm	Ant 5	ECI 5	645332	3679.98	12.53	13.00	1.114	0.08	0.154	0.172
	FR1 n48	20M	BPSK	1	1	Back	5mm	Ant 5	ECI 5	646000	3690	18.41	18.50	1.021	-0.17	0.621	0.634
	FR1 n48	30M	BPSK	36	18	Back	5mm	Ant 5	ECI 5	645666	3684.99	18.43	18.50	1.016	-0.03	0.599	0.609
	FR1 n77	100M	BPSK	1	137	Front	5mm	Ant 6	ECI 4	633332	3499.98	16.25	17.90	1.462	-0.19	0.314	0.459
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 4	633332	3499.98	16.15	17.90	1.496	-0.06	0.276	0.413
	FR1 n77	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 4	633332	3499.98	16.25	17.90	1.462	-0.01	0.519	0.759
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 6	ECI 4	633332	3499.98	16.15	17.90	1.496	-0.02	0.506	0.757
	FR1 n77_HPUE	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 4	633332	3499.98	19.43	20.90	1.403	0.07	0.453	0.747
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 6	ECI 4	633332+639996	3499.98	17.09	17.9	1.205	0.03	0.545	0.657
	FR1 n77	100M	BPSK	1	137	Front	5mm	Ant 6	ECI 5	633332	3499.98	16.25	16.60	1.084	-0.19	0.314	0.340
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 5	633332	3499.98	16.15	16.60	1.109	-0.06	0.276	0.306
	FR1 n77	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 5	633332	3499.98	16.25	16.60	1.084	-0.01	0.519	0.563
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 6	ECI 5	633332	3499.98	16.15	16.60	1.109	-0.02	0.506	0.561
	FR1 n77_HPUE	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 5	633332	3499.98	19.43	19.60	1.04	0.07	0.453	0.554
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 6	ECI 5	633332+639996	3499.98	16.04	16.6	1.138	0.09	0.426	0.485
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 7	ECI 4	633332	3499.98	14.93	16.70	1.503	0.13	0.308	0.463
	FR1 n77	100M	BPSK	135	138	Front	5mm	Ant 7	ECI 4	633332	3499.98	14.88	16.70	1.521	0.16	0.293	0.446
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 7	ECI 4	633332	3499.98	14.93	16.70	1.503	-0.04	0.441	0.663
	FR1 n77	100M	BPSK	135	138	Back	5mm	Ant 7	ECI 4	633332	3499.98	14.88	16.70	1.521	-0.18	0.432	0.657
	FR1 n77_HPUE	100M	BPSK	1	137	Back	5mm	Ant 7	ECI 4	633332	3499.98	18.30	19.70	1.38	-0.05	0.381	0.618
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 7	ECI 4	633332+639996	3499.98	15.43	16.7	1.340	-0.09	0.436	0.584
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 7	ECI 5	633332	3499.98	14.93	15.30	1.089	0.13	0.308	0.335
	FR1 n77	100M	BPSK	135	138	Front	5mm	Ant 7	ECI 5	633332	3499.98	14.88	15.30	1.102	0.16	0.293	0.323
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 7	ECI 5	633332	3499.98	14.93	15.30	1.089	-0.04	0.441	0.480
	FR1 n77	100M	BPSK	135	138	Back	5mm	Ant 7	ECI 5	633332	3499.98	14.88	15.30	1.102	-0.18	0.432	0.476
	FR1 n77_HPUE	100M	BPSK	1	137	Back	5mm	Ant 7	ECI 5	633332	3499.98	18.30	18.30	1.0	-0.05	0.381	0.448
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 7	ECI 5	633332+639996	3499.98	14.4	15.3	1.230	-0.19	0.347	0.427
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 1	ECI 4	633332	3499.98	15.90	17.30	1.38	-0.12	0.448	0.618
	FR1 n77	100M	BPSK	135	138	Front	5mm	Ant 1	ECI 4	633332	3499.98	15.86	17.30	1.393	0.13	0.452	0.630
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 1	ECI 4	633332	3499.98	15.90	17.30	1.38	-0.03	0.482	0.665
	FR1 n77	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 4	633332	3499.98	15.86	17.30	1.393	0.11	0.527	0.734
	FR1 n77_HPUE	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 4	633332	3499.98	18.76	20.30	1.426	-0.02	0.411	0.689
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 4	633332+639996	3499.98	15.97	17.3	1.358	0.1	0.485	0.659
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 1	ECI 5	633332	3499.98	14.55	14.70	1.035	0.07	0.344	0.356
	FR1 n77	100M	BPSK	135	138	Front	5mm	Ant 1	ECI 5	633332	3499.98	14.25	14.70	1.109	-0.18	0.347	0.385
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 1	ECI 5	633332	3499.98	14.55	14.70	1.035	0.03	0.370	0.383
	FR1 n77	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 5	633332	3499.98	14.25	14.70	1.109	-0.15	0.405	0.449
	FR1 n77_HPUE	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 5	633332	3499.98	17.64	17.70	1.014	-0.12	0.346	0.413
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 5	633332+639996	3499.98	13.95	14.7	1.189	0.15	0.305	0.363
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 4	633332	3499.98	18.15	19.10	1.245	0.16	0.210	0.261
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 4	633332	3499.98	18.22	19.10	1.225	-0.15	0.232	0.284
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	633332	3499.98	18.15	19.10	1.245	0.02	0.697	0.868
101	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 4	633332	3499.98	18.22	19.10	1.225	0.01	0.730	0.894
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 5	ECI 4	633332	3499.98	18.17	19.10	1.239	0.15	0.716	0.887
	FR1 n77_HPUE	100M	BPSK	135	138	Back	5mm	Ant 5	ECI 4	633332	3499.98	21.36	22.10	1.186	0.03	0.624	0.870
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 5	ECI 4	633332+639996	3499.98	17.32	19.1	1.507	0.09	0.561	0.845
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 5	633332	3499.98	18.15	18.40	1.059	0.16	0.210	0.222
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 5	633332	3499.98	18.22	18.40	1.042	-0.15	0.232	0.242
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 5	633332	3499.98	18.15	18.40	1.059	0.02	0.697	0.738
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 5	633332	3499.98	18.22	18.40	1.042	0.01	0.730	0.761
	FR1 n77_HPUE	100M	BPSK	135	138	Back	5mm	Ant 5	ECI 5	633332	3499.98	21.36	21.40	1.009	0.03	0.624	0.740
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 5	ECI 5	633332+639996	3499.98	17.32	18.4	1.282	0.09	0.561	0.719
	FR1 n77	100M	BPSK	1	137	Front	5mm	Ant 6	ECI 4	656000	3840	16.24	17.90	1.466	0.06	0.451	0.661
	FR1 n77	100M	BPSK	135	0	Front	5mm	Ant 6	ECI 4	656000	3840	16.13	17.90	1.503	-0.09	0.430	0.646
	FR1 n77	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 4	656000	3840	16.24	17.90	1.466	-0.15	0.469	0.688
	FR1 n77	100M	BPSK	135	0	Back	5mm	Ant 6	ECI 4	656000	3840	16.13	17.90	1.503	0.09	0.416	0.625
	FR1 n77_HPUE	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 4	656000	3840	19.53	20.90	1.371	0.13	0.404	0.651
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 6	ECI 4	656000+662664	3840	17.18	17.9	1.180	-0.19	0.512	0.604
	FR1 n77	100M	BPSK	1	137	Front	5mm	Ant 6	ECI 5	656000	3840	16.24	16.60	1.086	0.06	0.451	0.490
	FR1 n77	100M	BPSK	135	0	Front	5mm	Ant 6	ECI 5	656000	3840	16.13	16.60	1.114	-0.09	0.430	0.479
	FR1 n77	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 5	656000	3840	16.24	16.60	1.086	-0.15	0.469	0.509
	FR1 n77	100M	BPSK	135	0	Back	5mm	Ant 6	ECI 5	656000	3840	16.13	16.60	1.114	0.09	0.416	0.463
	FR1 n77_HPUE	100M	BPSK	1	137	Back	5mm	Ant 6	ECI 5	656000	3840	19.53	19.60	1.016	0.13	0.404	0.483
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 6	ECI 5	656000+662664	3840	16.11	16.6	1.119	-0.1	0.410	0.459
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 7	ECI 4	656000	3840	15.13	16.70	1.435	-0.14	0.257	0.369
	FR1 n77	100M	BPSK	135	0	Front	5mm	Ant 7	ECI 4	656000	3840	15.03	16.70	1.469	-0.11	0.301	0.442



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 7	ECI 4	656000	3840	15.13	16.70	1.435	0.10	0.357	0.512
	FR1 n77	100M	BPSK	135	0	Back	5mm	Ant 7	ECI 4	656000	3840	15.03	16.70	1.469	-0.08	0.373	0.548
	FR1 n77_HPUE	100M	BPSK	135	0	Back	5mm	Ant 7	ECI 4	656000	3840	18.30	19.70	1.38	-0.05	0.316	0.513
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 7	ECI 4	656000+662664	3840	15.45	16.7	1.334	-0.01	0.369	0.492
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 7	ECI 5	656000	3840	15.13	15.30	1.04	-0.14	0.257	0.267
	FR1 n77	100M	BPSK	135	0	Front	5mm	Ant 7	ECI 5	656000	3840	15.03	15.30	1.064	-0.11	0.301	0.320
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 7	ECI 5	656000	3840	15.13	15.30	1.04	0.10	0.357	0.371
	FR1 n77	100M	BPSK	135	0	Back	5mm	Ant 7	ECI 5	656000	3840	15.03	15.30	1.064	-0.08	0.373	0.397
	FR1 n77_HPUE	100M	BPSK	135	0	Back	5mm	Ant 7	ECI 5	656000	3840	18.30	18.30	1.0	-0.05	0.315	0.370
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 7	ECI 5	656000+662664	3840	14.47	15.3	1.211	-0.15	0.298	0.361
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 1	ECI 4	656000	3840	15.86	17.30	1.393	0.02	0.240	0.334
	FR1 n77	100M	BPSK	135	138	Front	5mm	Ant 1	ECI 4	656000	3840	15.81	17.30	1.409	-0.19	0.251	0.354
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 1	ECI 4	656000	3840	15.86	17.30	1.393	-0.16	0.423	0.589
	FR1 n77	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 4	656000	3840	15.81	17.30	1.409	0.08	0.435	0.613
	FR1 n77_HPUE	100M	BPSK	135	0	Back	5mm	Ant 1	ECI 4	656000	3840	18.86	20.30	1.393	-0.03	0.349	0.572
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 4	656000+662664	3840	16.12	17.3	1.312	0.01	0.425	0.558
	FR1 n77	100M	BPSK	1	271	Front	5mm	Ant 1	ECI 5	656000	3840	14.50	14.70	1.047	-0.08	0.184	0.193
	FR1 n77	100M	BPSK	135	138	Front	5mm	Ant 1	ECI 5	656000	3840	14.43	14.70	1.064	0.03	0.193	0.205
	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 1	ECI 5	656000	3840	14.50	14.70	1.047	-0.12	0.325	0.340
	FR1 n77	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 5	656000	3840	14.43	14.70	1.064	0.15	0.334	0.355
	FR1 n77_HPUE	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 5	656000	3840	17.68	17.70	1.005	0.05	0.277	0.327
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 1	ECI 5	656000+662664	3840	14.08	14.7	1.153	0.01	0.259	0.299
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 4	656000	3840	18.38	19.10	1.18	0.06	0.408	0.481
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 4	656000	3840	18.34	19.10	1.191	-0.17	0.413	0.492
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	656000	3840	18.38	19.10	1.18	0.05	0.629	0.742
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 4	656000	3840	18.34	19.10	1.191	-0.04	0.534	0.636
	FR1 n77_HPUE	100M	BPSK	1	271	Back	5mm	Ant 5	ECI 4	656000	3840	21.40	22.10	1.175	-0.13	0.502	0.694
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 5	ECI 4	656000+662664	3840	17.42	19.1	1.472	0.01	0.449	0.661
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 5	656000	3840	18.38	18.40	1.005	0.06	0.408	0.410
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 5	656000	3840	18.34	18.40	1.014	-0.17	0.413	0.419
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 5	656000	3840	18.38	18.40	1.005	0.05	0.629	0.632
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 5	656000	3840	18.34	18.40	1.014	-0.04	0.534	0.541
	FR1 n77_HPUE	100M	BPSK	1	271	Back	5mm	Ant 5	ECI 5	656000	3840	21.40	21.40	1.0	-0.13	0.502	0.590
	FR1 n77C	100M	BPSK	135	138	Back	5mm	Ant 5	ECI 5	656000+662664	3840	17.42	18.4	1.253	0.01	0.449	0.563

< WLAN SAR >

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)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Index 3	1	2412	17.41	18.50	1.285	99.88	1.001	0.01	0.304	0.391
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Index 3	1	2412	17.41	18.50	1.285	99.88	1.001	0.18	0.512	0.659
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4	Index 3	11	2462	17.39	18.50	1.291	99.88	1.001	-0.1	0.278	0.359
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4	Index 3	11	2462	17.39	18.50	1.291	99.88	1.001	-0.09	0.422	0.545
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(3)	Index 3	1	2412	17.48	18.50	1.265	100	1.000	-0.09	0.326	0.412
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Index 3	1	2412	17.43	18.50	1.279	100	1.000	-0.09	0.254	0.325
102	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+4(3)	Index 3	1	2412	17.48	18.50	1.265	100	1.000	-0.09	0.531	0.672
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+4(4)	Index 3	1	2412	17.43	18.50	1.279	100	1.000	-0.09	0.236	0.302
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Index 4	6	2437	11.62	12.00	1.091	99.88	1.001	-0.15	0.117	0.128
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Index 4	6	2437	11.62	12.00	1.091	99.88	1.001	-0.16	0.191	0.209
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 4	Index 4	1	2412	11.66	12.00	1.081	99.88	1.001	0.06	0.048	0.052
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 4	Index 4	1	2412	11.66	12.00	1.081	99.88	1.001	0.13	0.093	0.101
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(3)	Index 4	6	2437	11.87	12.00	1.030	100	1.000	-0.05	0.106	0.109
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+4(4)	Index 4	6	2437	11.44	12.00	1.138	100	1.000	-0.05	0.077	0.088
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+4(3)	Index 4	6	2437	11.87	12.00	1.030	100	1.000	-0.11	0.193	0.199
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+4(4)	Index 4	6	2437	11.44	12.00	1.138	100	1.000	-0.11	0.057	0.065
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.04	0.392	0.412
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.04	0.302	0.347
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	0.16	0.707	0.743
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	0.16	0.198	0.227
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	-0.19	0.140	0.150
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	-0.19	0.105	0.126
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	-0.06	0.156	0.167
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	-0.06	0.187	0.225
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	0.11	0.077	0.103
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	0.11	0.137	0.191
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	-0.15	0.211	0.283
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	-0.15	0.487	0.680
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.09	0.037	0.048
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.09	0.039	0.065



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.02	0.044	0.057
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.02	0.148	0.245
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(3)	Index 3	155	5775	16.12	17.50	1.374	97.77	1.023	0.02	0.290	0.408
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(4)	Index 3	155	5775	16.07	17.50	1.390	97.77	1.023	0.02	0.265	0.377
105	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(3)	Index 3	155	5775	16.12	17.50	1.374	97.77	1.023	0.12	0.417	0.586
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(4)	Index 3	155	5775	16.07	17.50	1.390	97.77	1.023	0.12	0.532	0.756
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(3)	Index 4	155	5775	10.81	11.00	1.045	97.77	1.023	0.19	0.096	0.103
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 3+4(4)	Index 4	155	5775	10.96	11.00	1.009	97.77	1.023	0.19	0.077	0.079
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(3)	Index 4	155	5775	10.81	11.00	1.045	97.77	1.023	-0.03	0.145	0.155
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 3+4(4)	Index 4	155	5775	10.96	11.00	1.009	97.77	1.023	-0.03	0.242	0.250
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.13	0.209	0.252
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.13	0.198	0.237
106	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.17	0.408	0.491
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.17	0.549	0.658
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	-0.02	0.056	0.070
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	-0.02	0.043	0.056
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	0.06	0.101	0.127
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	0.06	0.167	0.217

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)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	-0.09	0.274	0.288	1.610	1.695
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	-0.09	0.089	0.111	0.573	0.715
107	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	0.09	0.668	0.703	4.420	4.653
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	0.09	0.178	0.222	1.170	1.460
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 3	15	6025	12.83	14.50	1.469	95.24	1.050	-0.11	0.198	0.305	1.342	2.070
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 3	15	6025	14.50	14.50	1.000	95.24	1.050	-0.11	0.325	0.341	1.898	1.993
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 3	47	6185	12.51	14.50	1.581	95.24	1.050	0.02	0.133	0.221	0.873	1.449
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 3	47	6185	14.48	14.50	1.005	95.24	1.050	0.02	0.359	0.379	2.041	2.154
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 3	111	6505	16.76	17.50	1.186	95.24	1.050	0.12	0.344	0.428	2.410	3.001
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 3	111	6505	17.10	17.50	1.096	95.24	1.050	0.12	0.590	0.679	3.320	3.821
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 3+4(3)	Index 3	167	6785	16.65	18.00	1.365	97.22	1.029	0.15	0.441	0.619	3.158	4.436
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 3+4(4)	Index 3	167	6785	18.00	18.00	1.000	97.22	1.029	0.15	0.486	0.500	2.738	2.817
	WLAN6GHz	802.11ax-HE160 MCS0	Front	5mm	Ant 3+4(3)	Index 4	143	6665	16.00	16.50	1.122	95.24	1.050	0.18	0.080	0.094	0.531	0.626
	WLAN6GHz	802.11ax-HE160 MCS0	Front	5mm	Ant 3+4(4)	Index 4	143	6665	16.10	16.50	1.096	95.24	1.050	-0.04	0.026	0.030	0.159	0.183
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	143	6665	16.00	16.50	1.122	95.24	1.050	-0.08	0.200	0.236	1.330	1.567
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	143	6665	16.10	16.50	1.096	95.24	1.050	-0.13	0.064	0.074	0.392	0.451
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	15	6025	10.50	12.50	1.585	95.24	1.050	-0.13	0.111	0.185	0.736	1.225
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	15	6025	12.31	12.50	1.045	95.24	1.050	0.06	0.035	0.038	0.214	0.235
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	47	6185	10.58	12.50	1.556	95.24	1.050	-0.03	0.146	0.239	0.969	1.583
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	47	6185	12.00	12.50	1.122	95.24	1.050	-0.03	0.046	0.054	0.281	0.331
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	111	6505	9.77	11.50	1.489	95.24	1.050	0.08	0.131	0.205	0.839	1.312
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	111	6505	11.35	11.50	1.035	95.24	1.050	-0.07	0.041	0.045	0.251	0.273
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(3)	Index 4	207	6985	14.22	14.50	1.067	95.24	1.050	0.18	0.214	0.240	1.420	1.591
	WLAN6GHz	802.11ax-HE160 MCS0	Back	5mm	Ant 3+4(4)	Index 4	207	6985	13.67	14.50	1.211	95.24	1.050	0.18	0.067	0.085	0.410	0.521

< Bluetooth SAR >

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)
	Bluetooth	1Mbps	Front	5mm	Ant 3	BT Index 3	39	2441	12.52	14.50	1.578	76.93	1.083	-0.13	0.107	0.183
	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 3	39	2441	12.52	14.50	1.578	76.93	1.083	-0.15	0.155	0.265
	Bluetooth	1Mbps	Front	5mm	Ant 4	BT Index 3	39	2441	19.10	19.50	1.096	76.93	1.083	-0.08	0.234	0.278
	Bluetooth	1Mbps	Back	5mm	Ant 4	BT Index 3	39	2441	19.10	19.50	1.096	76.93	1.083	0.1	0.260	0.309
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(3)	BT Index 3	0	2402	12.54	14.50	1.570	76.93	1.083	-0.13	0.102	0.173
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(4)	BT Index 3	0	2402	12.68	14.50	1.521	76.93	1.083	-0.13	0.075	0.124
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(3)	BT Index 3	0	2402	12.54	14.50	1.570	76.93	1.083	-0.16	0.137	0.233
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(4)	BT Index 3	0	2402	12.68	14.50	1.521	76.93	1.083	-0.16	0.073	0.120
	Bluetooth	1Mbps	Front	5mm	Ant 3	BT Index 4	39	2441	12.52	13.00	1.117	76.93	1.083	-0.13	0.107	0.129
	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 4	39	2441	12.52	13.00	1.117	76.93	1.083	-0.15	0.155	0.188
	Bluetooth	1Mbps	Front	5mm	Ant 4	BT Index 4	39	2441	15.30	15.50	1.047	76.93	1.083	-0.1	0.118	0.134
	Bluetooth	1Mbps	Back	5mm	Ant 4	BT Index 4	39	2441	15.30	15.50	1.047	76.93	1.083	0.16	0.146	0.166
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(3)	BT Index 4	0	2402	12.54	13.00	1.112	76.93	1.083	-0.13	0.102	0.123
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(4)	BT Index 4	0	2402	12.68	13.00	1.076	76.93	1.083	-0.13	0.075	0.087
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(3)	BT Index 4	0	2402	12.54	13.00	1.112	76.93	1.083	-0.16	0.137	0.165
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(4)	BT Index 4	0	2402	12.68	13.00	1.076	76.93	1.083	-0.16	0.073	0.085
	Bluetooth	1Mbps	Front	5mm	Ant 3	BT Index 2	78	2480	20.94	21.00	1.014	76.93	1.083	0.1	0.531	0.583



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	78	2480	20.94	21.00	1.014	76.93	1.083	0.1	0.813	0.893
	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	0	2402	20.91	21.00	1.021	76.93	1.083	-0.18	0.652	0.721
108	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	39	2441	20.78	21.00	1.052	76.93	1.083	-0.01	0.933	1.063
	Bluetooth	1Mbps	Front	5mm	Ant 4	BT Index 2	78	2480	20.93	21.00	1.016	76.93	1.083	0.12	0.504	0.555
	Bluetooth	1Mbps	Back	5mm	Ant 4	BT Index 2	78	2480	20.93	21.00	1.016	76.93	1.083	-0.16	0.676	0.744
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(3)	BT Index 2	78	2480	20.99	21.00	1.002	76.93	1.083	-0.14	0.815	0.884
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(4)	BT Index 2	78	2480	20.32	21.00	1.169	76.93	1.083	-0.14	0.540	0.684
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(3)	BT Index 2	0	2402	20.82	21.00	1.042	76.93	1.083	-0.09	0.533	0.601
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(4)	BT Index 2	0	2402	20.05	21.00	1.245	76.93	1.083	-0.09	0.343	0.462
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(3)	BT Index 2	39	2441	20.84	21.00	1.038	76.93	1.083	-0.05	0.721	0.811
	Bluetooth	1Mbps	Front	5mm	Ant 3+4(4)	BT Index 2	39	2441	20.05	21.00	1.245	76.93	1.083	-0.05	0.459	0.619
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(3)	BT Index 2	78	2480	20.99	21.00	1.002	76.93	1.083	-0.14	0.895	0.971
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(4)	BT Index 2	78	2480	20.32	21.00	1.169	76.93	1.083	-0.14	0.616	0.780
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(3)	BT Index 2	0	2402	20.82	21.00	1.042	76.93	1.083	-0.17	0.701	0.791
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(4)	BT Index 2	0	2402	20.05	21.00	1.245	76.93	1.083	-0.17	0.382	0.515
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(3)	BT Index 2	39	2441	20.84	21.00	1.038	76.93	1.083	-0.19	0.887	0.997
	Bluetooth	1Mbps	Back	5mm	Ant 3+4(4)	BT Index 2	39	2441	20.05	21.00	1.245	76.93	1.083	-0.19	0.533	0.719

< Threads SAR >

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)
	Thread	250K	Front	5mm	Ant 3	Thread Index 3	26	2480	12.60	14.50	1.549	89.63	1.116	0.09	0.096	0.166
	Thread	250K	Back	5mm	Ant 3	Thread Index 3	26	2480	12.60	14.50	1.549	89.63	1.116	-0.12	0.153	0.264
	Thread	250K	Front	5mm	Ant 3	Thread Index 4	26	2480	12.60	13.00	1.096	89.63	1.116	0.09	0.096	0.117
	Thread	250K	Back	5mm	Ant 3	Thread Index 4	26	2480	12.60	13.00	1.096	89.63	1.116	-0.12	0.153	0.187
	Thread	250K	Front	5mm	Ant 3	Thread Index 2	25	2475	20.90	21.00	1.023	89.63	1.116	0.1	0.574	0.655
	Thread	250K	Back	5mm	Ant 3	Thread Index 2	25	2475	20.90	21.00	1.023	89.63	1.116	-0.04	0.826	0.943
	Thread	250K	Back	5mm	Ant 3	Thread Index 2	11	2405	20.33	21.00	1.167	89.63	1.116	-0.06	0.680	0.886
109	Thread	250K	Back	5mm	Ant 3	Thread Index 2	18	2440	20.66	21.00	1.081	89.63	1.116	-0.12	0.876	1.057
	Thread	250K	Back	5mm	Ant 3	Thread Index 2	26	2480	20.34	21.00	1.164	89.63	1.116	-0.07	0.812	1.055

14.4 Product Specific SAR

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
110	LTE Band 7	20M	QPSK	50	0	Right Edge	0mm	Ant 2	ECI 4	21350	2560	16.93	18.70	1.503			-0.08	1.110	1.668
	LTE Band 7C	20M	QPSK	1	0	Right Edge	0mm	Ant 2	ECI 4	21350+21152	2560+2540.2	17	18.7	1.479			0.1	1.050	1.553
	LTE Band 7	20M	QPSK	50	0	Bottom Edge	0mm	Ant 0	ECI 4	21100	2535	17.35	17.90	1.135			0.00	0.959	1.088
	LTE Band 7C	20M	QPSK	1	0	Bottom Edge	0mm	Ant 0	ECI 4	21350+21152	2560+2540.2	17.57	17.9	1.079			0.09	0.906	0.978
	LTE Band 41	20M	QPSK	1	0	Bottom Edge	0mm	Ant 0	ECI 4	40185	2549.5	19.28	19.90	1.153	62.9	1.006	-0.00	0.775	0.899
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Edge	0mm	Ant 0	ECI 4	40185	2549.5	21.06	21.50	1.107	42.9	1.009	0.07	0.768	0.858
	LTE Band 41C	20M	QPSK	1	0	Bottom Edge	0mm	Ant 0	ECI 4	40620+40422	2593+2573.2	19.05	19.9	1.216	62.9	1.006	0	0.667	0.816
	LTE Band 41	20M	QPSK	50	0	Top Edge	0mm	Ant 1	ECI 4	41490	2680	21.53	22.50	1.25	62.9	1.006	0.01	0.474	0.596
	LTE Band 41_HPUE	20M	QPSK	50	0	Top Edge	0mm	Ant 1	ECI 4	41055	2636.5	23.39	24.10	1.178	42.9	1.009	0.03	0.466	0.554
	LTE Band 41C	20M	QPSK	1	0	Top Edge	0mm	Ant 1	ECI 4	41490+41292	2680+2660.2	21.76	22.5	1.186	62.9	1.006	0.06	0.466	0.556
111	LTE Band 41	20M	QPSK	50	0	Right Edge	0mm	Ant 5	ECI 4	40620	2593	18.94	20.70	1.5	62.9	1.006	0.02	0.876	1.322
	LTE Band 41_HPUE	20M	QPSK	50	0	Right Edge	0mm	Ant 5	ECI 4	40620	2593	20.69	22.30	1.449	42.9	1.009	0.07	0.870	1.272
	LTE Band 41C	20M	QPSK	1	0	Right Edge	0mm	Ant 5	ECI 4	40185+39987	2549.5+2529.7	19.14	20.7	1.432	62.9	1.006	0.07	0.861	1.24

**【FR1 SAR】**

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
112	FR1 n7	50M	BPSK	135	135	Right Edge	0mm	Ant 2	ECI 4	507000	2535	17.60	19.00	1.38	-0.15	1.160	1.601
	FR1 n7	50M	BPSK	135	0	Bottom Edge	0mm	Ant 0	ECI 4	507000	2535	16.68	17.80	1.294	0.00	0.858	1.110
	FR1 n41	100M	BPSK	1	137	Bottom Edge	0mm	Ant 0	ECI 4	518598	2592.99	17.00	17.80	1.202	-0.02	0.935	1.124
	FR1 n41_HPUE	100M	BPSK	1	137	Bottom Edge	0mm	Ant 0	ECI 4	518598	2592.99	20.03	20.80	1.194	0.03	0.855	1.021
	FR1 n41B	50M	BPSK	64	69	Bottom Edge	0mm	Ant 0	ECI 4	518598+528594	2592.99	16.86	17.8	1.242	0.03	0.806	1.001
	FR1 n41C	90M	BPSK	108	137	Bottom Edge	0mm	Ant 0	ECI 4	518598+537582	2592.99	16.82	17.8	1.253	0.09	0.817	1.024
113	FR1 n41	100M	BPSK	135	0	Top Edge	0mm	Ant 1	ECI 4	518598	2592.99	19.54	20.30	1.191	-0.03	1.160	1.382
	FR1 n41_HPUE	100M	BPSK	1	137	Top Edge	0mm	Ant 1	ECI 4	518598	2592.99	55.59	23.30	1.178	0.02	1.060	1.249
	FR1 n41B	50M	BPSK	64	69	Top Edge	0mm	Ant 1	ECI 4	518598+528594	2592.99	19.79	20.3	1.125	-0.15	1.060	1.193
	FR1 n41C	90M	BPSK	108	137	Top Edge	0mm	Ant 1	ECI 4	518598+528594	2592.99	19.8	20.3	1.122	-0.02	1.090	1.223
	FR1 n41	100M	BPSK	1	271	Right Edge	0mm	Ant 5	ECI 4	518598	2592.99	16.17	17.90	1.489	-0.07	0.664	0.989
	FR1 n41_HPUE	100M	BPSK	1	137	Right Edge	0mm	Ant 5	ECI 4	518598	2592.99	19.10	20.90	1.514	0.02	0.633	0.958
	FR1 n41B	50M	BPSK	64	69	Right Edge	0mm	Ant 5	ECI 4	518598+528594	2592.99	16.56	17.9	1.361	0.03	0.637	0.867
	FR1 n41C	90M	BPSK	108	137	Right Edge	0mm	Ant 5	ECI 4	518598+528594	2592.99	16.57	17.9	1.358	0.08	0.631	0.857
114	FR1 n48	20M	BPSK	25	12	Left Edge	0mm	Ant 6	ECI 4	637334	3560.01	18.88	19.50	1.153	-0.06	1.840	2.122
	FR1 n48	40M	BPSK	50	25	Left Edge	0mm	Ant 6	ECI 4	641666	3624.99	18.90	19.50	1.148	0.02	1.640	1.883
	FR1 n48	30M	BPSK	36	18	Left Edge	0mm	Ant 6	ECI 4	645666	3684.99	18.85	19.50	1.161	0.06	1.470	1.707
	FR1 n48	40M	BPSK	1	105	Right Edge	0mm	Ant 7	ECI 4	641666	3624.99	17.09	17.50	1.099	0.1	1.040	1.143
	FR1 n48	20M	BPSK	25	12	Top Edge	0mm	Ant 1	ECI 4	637334	3560.01	18.52	20.30	1.507	0.03	1.030	1.552
	FR1 n48	40M	BPSK	50	25	Top Edge	0mm	Ant 1	ECI 4	641666	3624.99	18.55	20.30	1.496	-0.05	0.610	0.913
	FR1 n48	30M	BPSK	36	18	Top Edge	0mm	Ant 1	ECI 4	645666	3684.99	18.54	20.30	1.500	-0.17	0.250	0.375
	FR1 n48	40M	BPSK	1	0	Front	0mm	Ant 5	ECI 4	641666	3624.99	18.46	19.50	1.271	0.07	0.689	0.876

【NTN SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	NTN Band 23	3.75K	BPSK	1	46	Front	0mm	Ant 5	ECI 4	25600	2010	21.63	22.10	1.114	-0.17	1.810	2.016
115	NTN Band 23	3.75K	BPSK	1	46	Front	0mm	Ant 5	ECI 4	25501	2000.1	21.53	22.10	1.14	-0.04	2.140	2.440
	NTN Band 23	3.75K	BPSK	1	46	Front	0mm	Ant 5	ECI 4	25699	2019.9	21.55	22.10	1.135	0.08	1.510	1.714
	NTN Band 23	3.75K	BPSK	1	46	Back	0mm	Ant 5	ECI 4	25600	2010	21.63	22.10	1.114	-0.13	0.923	1.028
	NTN Band 23	3.75K	BPSK	1	46	Left Edge	0mm	Ant 5	ECI 4	25600	2010	21.63	22.10	1.114	-0.11	0.056	0.062
	NTN Band 23	3.75K	BPSK	1	46	Right Edge	0mm	Ant 5	ECI 4	25600	2010	21.63	22.10	1.114	-0.04	1.290	1.437
	NTN Band 23	3.75K	BPSK	1	46	Top Edge	0mm	Ant 5	ECI 4	25600	2010	21.63	22.10	1.114	0.05	0.395	0.440
	NTN Band 255	3.75K	BPSK	1	46	Front	0mm	Ant 5	ECI 4	261843	1660.4	19.30	19.70	1.096	0.08	1.360	1.491
	NTN Band 255	3.75K	BPSK	1	46	Back	0mm	Ant 5	ECI 4	261843	1660.4	19.30	19.70	1.096	-0.17	0.739	0.810
	NTN Band 255	3.75K	BPSK	1	46	Left Edge	0mm	Ant 5	ECI 4	261843	1660.4	19.30	19.70	1.096	0.05	0.019	0.021
116	NTN Band 255	3.75K	BPSK	1	46	Right Edge	0mm	Ant 5	ECI 4	261843	1660.4	19.30	19.70	1.096	0.04	2.260	2.477
	NTN Band 255	3.75K	BPSK	1	46	Right Edge	0mm	Ant 5	ECI 4	261505	1626.6	19.11	19.70	1.146	0.05	1.160	1.329
	NTN Band 255	3.75K	BPSK	1	46	Right Edge	0mm	Ant 5	ECI 4	261674	1643.5	18.97	19.70	1.183	0.14	1.190	1.408
	NTN Band 255	3.75K	BPSK	1	46	Top Edge	0mm	Ant 5	ECI 4	261843	1660.4	19.30	19.70	1.096	-0.05	0.184	0.202



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

< WLAN SAR >

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)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	0.04	0.947	0.996
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	0.04	0.714	0.819
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.15	0.329	0.346
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.15	0.093	0.107
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.15	0.204	0.214
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.15	0.678	0.778
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.13	0.858	0.902
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.13	0.001	0.001
117	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.04	1.210	1.272
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.04	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.02	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.02	0.194	0.223
	WLAN5GHz	802.11n-HT40 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 3	54	5270	18.83	19.00	1.040	98.92	1.011	-0.1	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 3	54	5270	18.45	19.00	1.135	98.92	1.011	-0.1	0.810	0.929
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	0.12	0.184	0.197
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	0.12	0.139	0.167
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	0.08	0.064	0.068
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	0.08	0.018	0.022
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	-0.17	0.040	0.043
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	-0.17	0.132	0.159
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	-0.03	0.167	0.178
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	-0.03	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	-0.15	0.235	0.251
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	0.14	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	0.14	0.038	0.046
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 4	50	5250	13.90	14.00	1.023	95.8	1.044	0.11	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 4	50	5250	13.38	14.00	1.153	95.8	1.044	0.11	0.157	0.189
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	0.08	0.162	0.217
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	0.08	0.122	0.170
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	0.01	0.056	0.075
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	0.01	0.016	0.022
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	0.03	0.035	0.047
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	0.03	0.116	0.162
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	-0.08	0.147	0.197
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	-0.08	0.001	0.001
118	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	0.12	0.255	0.341
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	-0.08	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	-0.08	0.033	0.046
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 3	138	5690	14.33	15.50	1.309	97.77	1.023	0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 3	138	5690	14.15	15.50	1.365	97.77	1.023	0.1	0.139	0.194
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.18	0.060	0.077
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.18	0.045	0.074
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.14	0.021	0.027
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.14	0.006	0.010
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	-0.17	0.013	0.017
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	-0.17	0.043	0.071
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.17	0.055	0.071
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.17	0.001	0.002
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.16	0.077	0.099
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.16	0.001	0.002
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	-0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	-0.05	0.012	0.020
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 4	114	5570	11.10	12.00	1.230	95.8	1.044	0.01	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 4	114	5570	10.00	12.00	1.585	95.8	1.044	0.01	0.052	0.086
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.02	0.345	0.415
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.02	0.345	0.413
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.05	0.084	0.101
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.05	0.063	0.076
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.1	0.372	0.446
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.03	0.357	0.430
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.03	0.001	0.001
119	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.03	0.480	0.578
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.03	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	0.03	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	0.03	0.039	0.047



FCC SAR TEST REPORT

Report No. : FA5N0815-01C

	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 3	163	5815	14.38	15.00	1.153	95.8	1.044	-0.16	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 3	163	5815	14.40	15.00	1.148	95.8	1.044	-0.16	0.438	0.525
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	0.1	0.099	0.125
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	0.1	0.099	0.128
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	-0.17	0.024	0.030
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	-0.17	0.018	0.023
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	0.04	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	0.04	0.107	0.139
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	-0.01	0.103	0.130
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	-0.01	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	-0.11	0.138	0.174
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	-0.11	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	-0.08	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	-0.08	0.011	0.014
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 4	163	5815	11.19	12.00	1.205	95.8	1.044	0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 4	163	5815	11.06	12.00	1.242	95.8	1.044	0.05	0.126	0.163

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)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	0.15	0.323	0.340	7.820	8.232
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	0.15	0.158	0.197	3.620	4.518
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	0.17	0.222	0.234	5.050	5.316
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	0.17	0.043	0.054	1.010	1.261
120	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	0.16	0.335	0.353	7.840	8.253
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	0.16	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	15	6025	12.83	14.50	1.469	95.24	1.050	0.07	0.155	0.239	3.629	5.598
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	15	6025	14.50	14.50	1.000	95.24	1.050	0	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	47	6185	12.51	14.50	1.581	95.24	1.050	0.01	0.117	0.194	2.715	4.507
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	47	6185	14.48	14.50	1.005	95.24	1.050	-0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	111	6505	16.76	17.50	1.186	95.24	1.050	-0.06	0.242	0.301	5.560	6.924
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	111	6505	17.10	17.50	1.096	95.24	1.050	-0.04	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 3+4(3)	Index 3	167	6785	16.65	18.00	1.365	97.22	1.029	-0.09	0.180	0.253	4.220	5.927
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 3+4(4)	Index 3	167	6785	18.00	18.00	1.000	97.22	1.029	-0.17	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	-0.18	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	0.02	0.034	0.042	0.341	0.426
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 3+4(3)	Index 3	215	7025	19.90	20.00	1.023	97.22	1.029	0.16	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 3+4(4)	Index 3	215	7025	19.16	20.00	1.213	97.22	1.029	-0.03	0.186	0.232	1.910	2.384

< NFC SAR >

Plot No.	Band	Mode	Test Position	Gap (mm)	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	NFC	ASK	Front	0mm	13.56	0.08	0.007	0.007
	NFC	ASK	Back	0mm	13.56	0.01	0.005	0.005
	NFC	ASK	Left Edge	0mm	13.56	0.03	0.003	0.003
	NFC	ASK	Right Edge	0mm	13.56	-0.08	0.001	0.001
121	NFC	ASK	Top Edge	0mm	13.56	0.07	0.008	0.008

14.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(4)	15	6025	14.86	0.0625	2.67	-0.9200268	1.34	2.31
WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	15	6025	13.50	0.25	3.3		0.864	0.886
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	207	6985	16.16	0.0625	2.37	-0.9507367	2.66	3.04
WLAN6GHz	802.11ax-HE160 MCS0	Front	8.59mm	Ant 3+4(3)	207	6985	16.16	0.25	2.95		1.75	1.77

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(4)	15	6025	14.86	15.00	1.033	95.24	1.050	0.0625	1.5535	-0.11	1.34	2.26	2.31	3.89
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(4)	47	6185	13.96	15.00	1.271	95.24	1.050	0.0625	1.5535	-0.08	1.63	3.38	2.23	4.62
122	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	111	6505	13.21	15.00	1.510	95.24	1.050	0.0625	1.5535	-0.11	2.24	5.52	2.59	6.38
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	143	6665	16.16	16.50	1.081	95.24	1.050	0.0625	1.5535	0.1	2.87	5.06	3.6	6.35
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	207	6985	16.16	16.50	1.081	95.24	1.050	0.0625	1.5535	0.12	2.66	4.69	3.04	5.36
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	15	6025	12.83	14.50	1.469	95.24	1.050	0.0625	1.5535	0.07	1.39	3.33	2.56	6.13
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	47	6185	12.60	14.50	1.549	95.24	1.050	0.0625	1.5535	0.04	2.55	6.44	2.93	7.40
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	111	6505	16.76	17.50	1.186	95.24	1.050	0.0625	1.5535	0.03	2.48	4.80	3.46	6.69
123	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 3+4(3)	167	6785	16.65	18.00	1.365	97.22	1.029	0.0625	1.5535	0.1	2.11	4.60	3.4	7.42
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	2mm	Ant 3+4(3)	215	7025	19.90	20.00	1.023	97.22	1.029	0.0625	1.5535	0.14	3.09	5.05	4.47	7.31
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	207	6985	17.55	18.00	1.109	95.24	1.050	0.0625	1.5535	0.12	2.71	4.90	3.73	6.75

14.6 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1st	LTE Band 66	20M_QPSK_1_99	Right Cheek	0.0	Ant 1	ECI 2	132572	1770	19.30	20.00	1.175	-0.11	0.830	0.975	-
2nd	LTE Band 66	20M_QPSK_1_99	Right Cheek	0.0	Ant 1	ECI 2	132572	1770	19.30	20.00	1.175	0.05	0.825	0.969	1.01
1st	WCDMA II	RMC 12.2Kbps	Right Edge	5.0	Ant 2	ECI 6	9400	1880	19.30	19.50	1.047	-0.05	0.802	0.840	-
2nd	WCDMA II	RMC 12.2Kbps	Right Edge	5.0	Ant 2	ECI 6	9400	1880	19.30	19.50	1.047	-0.01	0.795	0.832	1.01
1st	FR1 n30	10M_BPSK_25_0	Right Edge	5.0	Ant 2	ECI 6	462000	2310	17.85	18.00	1.035	0.03	0.809	0.837	-
2nd	FR1 n30	10M_BPSK_25_0	Right Edge	5.0	Ant 2	ECI 6	462000	2310	17.85	18.00	1.035	0.14	0.803	0.831	1.01
1st	LTE Band 7	20M_QPSK_50_0	Right Edge	5.0	Ant 2	ECI 6	21350	2560	16.93	17.00	1.016	-0.03	0.832	0.845	-
2nd	LTE Band 7	20M_QPSK_50_0	Right Edge	5.0	Ant 2	ECI 6	21350	2560	16.93	17.00	1.016	0.11	0.828	0.841	1.00

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)	Ratio
1st	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	39	2441	20.78	21.00	1.052	76.93	1.083	-0.01	0.933	1.063	-
2nd	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	39	2441	20.78	21.00	1.052	76.93	1.083	0.05	0.905	1.031	1.03

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
- 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.

14.7 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations. 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 and FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is < 10%

Head

LTE Band 41 (2496~2690MHz)_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	25.0	26.9
Reported 1g SAR (W/kg)	0.760	0.795
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	200.17	212.07
Linearity SAR(W/kg)	0.81	
% deviation from Expected Linearity		-1.27%

LTE Band 41 (2496~2690MHz)_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	25.0	26.9
Reported 1g SAR (W/kg)	0.046	0.045
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	200.17	212.07
Linearity SAR(W/kg)	0.05	
% deviation from Expected Linearity		-7.66%

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.3	24.9
Reported 1g SAR (W/kg)	0.891	0.864
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	135.33	133.81
Linearity SAR(W/kg)	0.88	
% deviation from Expected Linearity		-1.90%

LTE Band 41 (2496~2690MHz)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.4	19.0
Reported 1g SAR (W/kg)	0.905	0.827
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	34.79	34.39
Linearity SAR(W/kg)	0.89	
% deviation from Expected Linearity		-7.61%

FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.8	26.8
Reported 1g SAR (W/kg)	0.796	0.793
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	239.88	239.32
Linearity SAR(W/kg)	0.79	
% deviation from Expected Linearity		-0.14%

FR1 n41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	25.0	26.9
Reported 1g SAR (W/kg)	0.191	0.151
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	316.23	244.89
Linearity SAR(W/kg)	0.15	
% deviation from Expected Linearity		2.09%

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.5	21.5
Reported 1g SAR (W/kg)	0.803	0.722
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63
Linearity SAR(W/kg)	0.80	
% deviation from Expected Linearity		-9.88%

FR1 n41_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.3	19.3
Reported 1g SAR (W/kg)	0.717	0.675
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	53.70	53.58
Linearity SAR(W/kg)	0.90	
% deviation from Expected Linearity		-5.66%

FR1 n77 (27Q)_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.6	27.1
Reported 1g SAR (W/kg)	0.541	0.520
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	288.40	256.43
Linearity SAR(W/kg)	0.48	
% deviation from Expected Linearity		8.10%

FR1 n77 (27Q)_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.8	26.8
Reported 1g SAR (W/kg)	0.742	0.629
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	302.00	239.32
Linearity SAR(W/kg)	0.59	
% deviation from Expected Linearity		6.97%

FR1 n77 (27Q)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.6	18.6
Reported 1g SAR (W/kg)	0.880	0.876
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	36.31	36.22
Linearity SAR(W/kg)	0.88	
% deviation from Expected Linearity		-0.21%

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.6	19.6
Reported 1g SAR (W/kg)	0.759	0.739
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	45.71	45.60
Linearity SAR(W/kg)	0.76	
% deviation from Expected Linearity		-2.40%

Hotspot

LTE Band 41 (2496~2690MHz)_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.1	20.7
Reported 1g SAR (W/kg)	0.845	0.799
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	51.45	50.87
Linearity SAR(W/kg)	0.84	
% deviation from Expected Linearity		-4.33%

LTE Band 41 (2496~2690MHz)_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.7	19.3
Reported 1g SAR (W/kg)	0.746	0.671
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	37.27	36.85
Linearity SAR(W/kg)	0.74	
% deviation from Expected Linearity		-9.05%

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.4	24
Reported 1g SAR (W/kg)	0.822	0.791
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	110	108.76
Linearity SAR(W/kg)	0.81	
% deviation from Expected Linearity		-2.67%

LTE Band 41 (2496~2690MHz)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.8	19.4
Reported 1g SAR (W/kg)	0.787	0.784
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	38.14	37.71
Linearity SAR(W/kg)	0.78	
% deviation from Expected Linearity		0.85%

FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.1	20.1
Reported 1g SAR (W/kg)	0.827	0.814
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	51.29	51.16
Linearity SAR(W/kg)	0.82	
% deviation from Expected Linearity		-1.32%

FR1 n41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.1	19.1
Reported 1g SAR (W/kg)	0.693	0.662
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	40.74	40.64
Linearity SAR(W/kg)	0.69	
% deviation from Expected Linearity		-4.24%

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.3	20.3
Reported 1g SAR (W/kg)	0.772	0.715
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	53.70	53.58
Linearity SAR(W/kg)	0.77	
% deviation from Expected Linearity		-7.18%

FR1 n41_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.3	19.3
Reported 1g SAR (W/kg)	0.850	0.831
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	42.66	42.56
Linearity SAR(W/kg)	0.85	
% deviation from Expected Linearity		-2.01%

FR1 n77 (27Q)_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.6	19.6
Reported 1g SAR (W/kg)	0.703	0.661
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	45.71	45.60
Linearity SAR(W/kg)	0.70	
% deviation from Expected Linearity		-5.75%

FR1 n77 (27Q)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	14.7	17.7
Reported 1g SAR (W/kg)	0.620	0.581
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	29.51	29.44
Linearity SAR(W/kg)	0.62	
% deviation from Expected Linearity		-6.07%

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.4	21.4
Reported 1g SAR (W/kg)	0.761	0.740
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	69.18	69.02
Linearity SAR(W/kg)	0.76	
% deviation from Expected Linearity		-2.53%

FR1 n77 (27Q)_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.3	18.3
Reported 1g SAR (W/kg)	0.738	0.684
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	33.88	33.80
Linearity SAR(W/kg)	0.74	
% deviation from Expected Linearity		-7.10%

Body-Worn

LTE Band 41 (2496~2690MHz)_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.5	22.1
Reported 1g SAR (W/kg)	0.751	0.723
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	71.02	70.22
Linearity SAR(W/kg)	0.74	
% deviation from Expected Linearity		-2.63%

LTE Band 41 (2496~2690MHz)_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	21.5
Reported 1g SAR (W/kg)	0.789	0.743
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	61.86	61.16
Linearity SAR(W/kg)	0.78	
% deviation from Expected Linearity		-4.75%

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.5	24.1
Reported 1g SAR (W/kg)	0.842	0.809
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	112.57	111.30
Linearity SAR(W/kg)	0.83	
% deviation from Expected Linearity		-2.82%

LTE Band 41 (2496~2690MHz)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.7	22.3
Reported 1g SAR (W/kg)	0.851	0.802
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	74.37	73.53
Linearity SAR(W/kg)	0.84	
% deviation from Expected Linearity		-4.66%

FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.7	21.7
Reported 1g SAR (W/kg)	0.735	0.670
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	74.13	73.96
Linearity SAR(W/kg)	0.73	
% deviation from Expected Linearity		-8.63%

FR1 n41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.8	20.8
Reported 1g SAR (W/kg)	0.775	0.739
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	60.26	60.11
Linearity SAR(W/kg)	0.77	
% deviation from Expected Linearity		-4.41%

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.3	23.3
Reported 1g SAR (W/kg)	0.885	0.851
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	107.15	106.90
Linearity SAR(W/kg)	0.88	
% deviation from Expected Linearity		-3.62%

FR1 n41_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.9	20.9
Reported 1g SAR (W/kg)	0.852	0.789
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	61.66	61.51
Linearity SAR(W/kg)	0.85	
% deviation from Expected Linearity		-7.17%

FR1 n77 (27Q)_Ant 6	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.9	20.9
Reported 1g SAR (W/kg)	0.759	0.747
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	61.66	61.51
Linearity SAR(W/kg)	0.76	
% deviation from Expected Linearity		-1.34%

FR1 n77 (27Q)_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.7	19.7
Reported 1g SAR (W/kg)	0.663	0.618
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	46.77	46.66
Linearity SAR(W/kg)	0.66	
% deviation from Expected Linearity		-6.57%

FR1 n77 (27Q)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.3	20.3
Reported 1g SAR (W/kg)	0.734	0.689
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	53.70	53.58
Linearity SAR(W/kg)	0.73	
% deviation from Expected Linearity		-5.92%

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.1	22.1
Reported 1g SAR (W/kg)	0.894	0.870
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	81.28	81.09
Linearity SAR(W/kg)	0.89	
% deviation from Expected Linearity		-2.46%

Product Specific

LTE Band 41 (2496~2690MHz)_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	21.5
Reported 10g SAR (W/kg)	0.899	0.858
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	61.86	61.16
Linearity SAR(W/kg)	0.89	
% deviation from Expected Linearity		-3.48%

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.5	24.1
Reported 10g SAR (W/kg)	0.596	0.554
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	112.57	111.30
Linearity SAR(W/kg)	0.59	
% deviation from Expected Linearity		-6.01%

LTE Band 41 (2496~2690MHz)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.7	22.3
Reported 10g SAR (W/kg)	1.322	1.272
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	74.37	73.53
Linearity SAR(W/kg)	1.31	
% deviation from Expected Linearity		-2.68%

FR1 n41_Ant 0	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.8	20.8
Reported 1g SAR (W/kg)	1.124	1.021
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	60.26	60.11
Linearity SAR(W/kg)	1.12	
% deviation from Expected Linearity		-8.95%

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.3	23.3
Reported 1g SAR (W/kg)	1.382	1.249
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	107.15	106.90
Linearity SAR(W/kg)	1.38	
% deviation from Expected Linearity		-9.41%

FR1 n41_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.9	20.9
Reported 1g SAR (W/kg)	0.989	0.958
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	61.66	61.51
Linearity SAR(W/kg)	0.99	
% deviation from Expected Linearity		-2.90%

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Test Engineer : Willie Huang, Wilson Lin, Andy Chiang, Charles Shen, White Huang, Howard Zhao, Barry Huang, Lev Lo, Kevin Guo, Lu Chen, Willy Yu, Elio Wei and Jordar Jhuang

15. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

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