



FCC SAR Test Report

Report No. : FA442515

	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	656000	3840	16.95	18.50	1.429	-	-	0.02	0.553	0.790
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	656000	3840	16.95	18.50	1.429	-	-	-0.14	0.641	0.915
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	ECl 1	656000	3840	16.95	18.50	1.429	-	-	-0.11	0.308	0.440
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	ECl 1	656000	3840	16.95	18.50	1.429	-	-	-0.01	0.326	0.466
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	656000	3840	20.08	21.50	1.387	50	1.000	-0.12	0.595	0.825
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	656000	3840	16.93	18.50	1.435	-	-	0.12	0.538	0.773
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	656000	3840	16.93	18.50	1.435	-	-	-0.14	0.594	0.853
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	ECl 1	656000	3840	16.93	18.50	1.435	-	-	-0.16	0.274	0.393
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	ECl 1	656000	3840	16.93	18.50	1.435	-	-	-0.1	0.351	0.503
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	656000	3840	16.90	18.50	1.445	-	-	0.09	0.510	0.737
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	656000	3840	16.90	18.50	1.445	-	-	0.1	0.583	0.843
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	633332	3499.98	16.46	17.50	1.271	-	-	-0.07	0.183	0.233
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	633332	3499.98	16.46	17.50	1.271	-	-	0.15	0.140	0.178
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	16.46	17.50	1.271	-	-	-0.08	0.628	0.798
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	633332	3499.98	16.46	17.50	1.271	-	-	-0.16	0.290	0.368
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	633332	3499.98	16.45	17.50	1.274	-	-	0.13	0.168	0.214
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	633332	3499.98	16.45	17.50	1.274	-	-	0.03	0.132	0.168
25	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	16.45	17.50	1.274	-	-	-0.08	0.850	1.082
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	633332	3499.98	16.45	17.50	1.274	-	-	0.05	0.312	0.397
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	19.80	20.50	1.175	50	1.000	-0.07	0.831	0.976
	FR1 n77	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	16.42	17.50	1.282	-	-	-0.14	0.654	0.839
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	656000	3840	16.58	17.50	1.236	-	-	0.06	0.122	0.151
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	656000	3840	16.58	17.50	1.236	-	-	0.04	0.101	0.125
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	656000	3840	16.58	17.50	1.236	-	-	-0.1	0.450	0.556
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	656000	3840	16.58	17.50	1.236	-	-	-0.02	0.250	0.309
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	656000	3840	19.88	20.50	1.153	50	1.000	-0.04	0.438	0.505
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	656000	3840	16.56	17.50	1.242	-	-	0.15	0.090	0.112
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	656000	3840	16.56	17.50	1.242	-	-	0.14	0.091	0.113
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	656000	3840	16.56	17.50	1.242	-	-	-0.1	0.352	0.437
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	656000	3840	16.56	17.50	1.242	-	-	0.11	0.213	0.264
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	633332	3499.98	19.60	21.00	1.380	-	-	-0.04	0.058	0.080
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	ECl 1	633332	3499.98	19.60	21.00	1.380	-	-	-0.1	0.051	0.070
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	ECl 1	633332	3499.98	19.60	21.00	1.380	-	-	-0.12	0.045	0.062
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	ECl 1	633332	3499.98	19.60	21.00	1.380	-	-	0.09	0.033	0.046
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	633332	3499.98	23.05	24.00	1.245	50	1.000	0.06	0.060	0.075
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	633332	3499.98	19.56	21.00	1.393	-	-	-0.12	0.056	0.078
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	ECl 1	633332	3499.98	19.56	21.00	1.393	-	-	-0.06	0.051	0.071
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	ECl 1	633332	3499.98	19.56	21.00	1.393	-	-	0.16	0.033	0.046
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	ECl 1	633332	3499.98	19.56	21.00	1.393	-	-	0.06	0.029	0.040
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	656000	3840	19.40	21.00	1.445	-	-	0.03	0.331	0.478
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	ECl 1	656000	3840	19.40	21.00	1.445	-	-	0.19	0.140	0.202
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	ECl 1	656000	3840	19.40	21.00	1.445	-	-	0.15	0.122	0.176
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	ECl 1	656000	3840	19.40	21.00	1.445	-	-	0.02	0.090	0.130
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	656000	3840	19.36	21.00	1.459	-	-	-0.05	0.367	0.535
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	ECl 1	656000	3840	19.36	21.00	1.459	-	-	-0.15	0.145	0.212
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	ECl 1	656000	3840	19.36	21.00	1.459	-	-	-0.16	0.139	0.203
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	ECl 1	656000	3840	19.36	21.00	1.459	-	-	0.14	0.084	0.123
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	656000	3840	22.83	24.00	1.309	50	1.000	0.01	0.385	0.504
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	ECl 1	633332	3499.98	15.73	16.50	1.194	-	-	-0.11	0.331	0.395
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	ECl 1	633332	3499.98	15.73	16.50	1.194	-	-	-0.05	0.414	0.495
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	ECl 1	633332	3499.98	15.73	16.50	1.194	-	-	0.04	0.416	0.497
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	633332	3499.98	15.73	16.50	1.194	-	-	0.14	0.532	0.635
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	ECl 1	633332	3499.98	15.70	16.50	1.202	-	-	-0.01	0.326	0.391
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	ECl 1	633332	3499.98	15.70	16.50	1.202	-	-	-0.12	0.441	0.530
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	ECl 1	633332	3499.98	15.70	16.50	1.202	-	-	0.14	0.432	0.519
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	633332	3499.98	15.70	16.50	1.202	-	-	0.06	0.752	0.904



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26	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	633332	3499.98	19.15	19.50	1.084	50	1.000	-0.01	0.871	0.944
	FR1 n78	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	633332	3499.98	15.68	16.50	1.208	-	-	0.05	0.554	0.669
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	ECl 1	650000	3750	15.68	16.50	1.208	-	-	-0.08	0.227	0.274
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	ECl 1	650000	3750	15.68	16.50	1.208	-	-	0.11	0.317	0.383
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	ECl 1	650000	3750	15.68	16.50	1.208	-	-	-0.11	0.332	0.401
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	650000	3750	15.68	16.50	1.208	-	-	-0.07	0.468	0.565
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	650000	3750	19.15	19.50	1.084	50	1.000	-0.18	0.471	0.511
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	ECl 1	650000	3750	15.66	16.50	1.213	-	-	0	0.259	0.314
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	ECl 1	650000	3750	15.66	16.50	1.213	-	-	0.15	0.306	0.372
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	ECl 1	650000	3750	15.66	16.50	1.213	-	-	-0.15	0.285	0.346
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	650000	3750	15.66	16.50	1.213	-	-	-0.16	0.439	0.533
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	633332	3499.98	17.62	18.50	1.225	-	-	0	0.553	0.677
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	633332	3499.98	17.62	18.50	1.225	-	-	0.07	0.435	0.533
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	ECl 1	633332	3499.98	17.62	18.50	1.225	-	-	0.02	0.210	0.257
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	ECl 1	633332	3499.98	17.62	18.50	1.225	-	-	-0.01	0.206	0.252
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	633332	3499.98	17.60	18.50	1.230	-	-	0.09	0.618	0.760
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	633332	3499.98	17.60	18.50	1.230	-	-	0.09	0.505	0.621
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	ECl 1	633332	3499.98	17.60	18.50	1.230	-	-	-0.06	0.228	0.281
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	ECl 1	633332	3499.98	17.60	18.50	1.230	-	-	-0.12	0.221	0.272
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	633332	3499.98	20.47	21.50	1.268	50	1.000	0.06	0.560	0.710
	FR1 n78	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	633332	3499.98	17.57	18.50	1.239	-	-	0.17	0.600	0.743
	FR1 n78	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	633332	3499.98	17.57	18.50	1.239	-	-	-0.17	0.481	0.596
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	650000	3750	17.58	18.50	1.236	-	-	-0.06	0.492	0.608
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	650000	3750	17.58	18.50	1.236	-	-	-0.17	0.444	0.549
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	ECl 1	650000	3750	17.58	18.50	1.236	-	-	0.06	0.204	0.252
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	ECl 1	650000	3750	17.58	18.50	1.236	-	-	0.02	0.223	0.276
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	650000	3750	17.55	18.50	1.245	-	-	-0.18	0.723	0.900
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	ECl 1	650000	3750	17.55	18.50	1.245	-	-	0.11	0.467	0.581
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	ECl 1	650000	3750	17.55	18.50	1.245	-	-	0.01	0.394	0.490
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	ECl 1	650000	3750	17.55	18.50	1.245	-	-	-0.06	0.390	0.485
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	650000	3750	20.50	21.50	1.259	50	1.000	0.14	0.699	0.880
	FR1 n78	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 8	ECl 1	650000	3750	17.52	18.50	1.253	-	-	-0.12	0.504	0.632
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	633332	3499.98	15.13	16.50	1.371	-	-	-0.15	0.147	0.202
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	633332	3499.98	15.13	16.50	1.371	-	-	-0.16	0.113	0.155
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	15.13	16.50	1.371	-	-	0.04	0.459	0.629
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	633332	3499.98	15.13	16.50	1.371	-	-	-0.04	0.207	0.284
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	633332	3499.98	15.12	16.50	1.374	-	-	0.18	0.132	0.181
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	633332	3499.98	15.12	16.50	1.374	-	-	0.14	0.104	0.143
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	15.12	16.50	1.374	-	-	-0.17	0.476	0.654
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	633332	3499.98	15.12	16.50	1.374	-	-	-0.18	0.230	0.316
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	17.70	18.50	1.202	50	1.000	0.09	0.518	0.623
	FR1 n78	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	633332	3499.98	15.10	16.50	1.380	-	-	-0.08	0.456	0.629
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	650000	3750	15.02	16.50	1.406	-	-	-0.16	0.128	0.180
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	650000	3750	15.02	16.50	1.406	-	-	0.12	0.098	0.138
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	650000	3750	15.02	16.50	1.406	-	-	0.13	0.478	0.672
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	650000	3750	15.02	16.50	1.406	-	-	0.16	0.237	0.333
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	650000	3750	17.68	18.50	1.208	50	1.000	0.06	0.520	0.628
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECl 1	650000	3750	15.00	16.50	1.413	-	-	0.03	0.122	0.172
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECl 1	650000	3750	15.00	16.50	1.413	-	-	0.15	0.096	0.136
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	650000	3750	15.00	16.50	1.413	-	-	-0.14	0.464	0.655
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECl 1	650000	3750	15.00	16.50	1.413	-	-	-0.17	0.249	0.352
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECl 1	650000	3750	14.98	16.50	1.419	-	-	0.08	0.446	0.633
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	ECl 1	633332	3499.98	23.70	25.00	1.349	-	-	0	0.160	0.216
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	ECl 1	633332	3499.98	23.70	25.00	1.349	-	-	0.14	0.099	0.134
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	ECl 1	633332	3499.98	23.70	25.00	1.349	-	-	0.01	0.089	0.120
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	ECl 1	633332	3499.98	23.70	25.00	1.349	-	-	0.01	0.073	0.098



FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	EI 1	633332	3499.98	25.25	26.00	1.189	50	1.000	0.09	0.120	0.143
FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	EI 1	633332	3499.98	23.68	25.00	1.355	-	-	0.03	0.155	0.210
FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	EI 1	633332	3499.98	23.68	25.00	1.355	-	-	0.19	0.138	0.187
FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	EI 1	633332	3499.98	23.68	25.00	1.355	-	-	-0.13	0.072	0.098
FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	EI 1	633332	3499.98	23.68	25.00	1.355	-	-	-0.06	0.070	0.095
FR1 n78	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	EI 1	650000	3750	23.65	25.00	1.365	-	-	0.01	0.477	0.651
FR1 n78	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	EI 1	650000	3750	23.65	25.00	1.365	-	-	-0.02	0.251	0.343
FR1 n78	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	EI 1	650000	3750	23.65	25.00	1.365	-	-	0.1	0.232	0.317
FR1 n78	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	EI 1	650000	3750	23.65	25.00	1.365	-	-	-0.18	0.145	0.198
FR1 n78	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	EI 1	650000	3750	23.62	25.00	1.374	-	-	-0.08	0.593	0.815
FR1 n78	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	EI 1	650000	3750	23.62	25.00	1.374	-	-	0.15	0.310	0.426
FR1 n78	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	EI 1	650000	3750	23.62	25.00	1.374	-	-	-0.09	0.282	0.387
FR1 n78	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	EI 1	650000	3750	23.62	25.00	1.374	-	-	-0.02	0.166	0.228
FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	EI 1	650000	3750	24.60	26.00	1.380	50	1.000	-0.02	0.389	0.537
FR1 n78	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 9	EI 1	650000	3750	23.60	25.00	1.380	-	-	0.19	0.558	0.770

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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 16+7(7)	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	0.13	0.320	0.454
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16+7(7)	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	0.1	0.402	0.571
27	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+7(7)	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	0.06	0.756	1.073
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+7(7)	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	-0.01	0.437	0.621
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+7(7)	Standalone	1	2412	16.65	17.50	1.216	99.48	1.005	-0.14	0.735	0.898
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 16+7(7)	Non-DBS	6	2437	13.92	15.50	1.439	99.48	1.005	-0.15	0.164	0.237
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16+7(7)	Non-DBS	6	2437	13.92	15.50	1.439	99.48	1.005	-0.16	0.205	0.296
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+7(7)	Non-DBS	6	2437	13.92	15.50	1.439	99.48	1.005	0.04	0.342	0.495
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+7(7)	Non-DBS	6	2437	13.92	15.50	1.439	99.48	1.005	-0.04	0.223	0.322
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 16+7(7)	DBS	6	2437	10.86	12.50	1.459	99.48	1.005	-0.15	0.082	0.120
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16+7(7)	DBS	6	2437	10.86	12.50	1.459	99.48	1.005	-0.16	0.103	0.151
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+7(7)	DBS	6	2437	10.86	12.50	1.459	99.48	1.005	0.04	0.163	0.239
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+7(7)	DBS	6	2437	10.86	12.50	1.459	99.48	1.005	-0.04	0.112	0.164
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	-0.16	0.095	0.135
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	0.12	0.167	0.237
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	0.13	0.692	0.982
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	Standalone	6	2437	17.00	18.50	1.413	99.48	1.005	0.16	0.273	0.388
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Standalone	1	2412	16.85	17.50	1.161	99.48	1.005	-0.14	0.560	0.654
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	Non-DBS	6	2437	13.25	14.50	1.334	99.48	1.005	0.01	0.053	0.071
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	Non-DBS	6	2437	13.25	14.50	1.334	99.48	1.005	-0.02	0.075	0.101
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Non-DBS	6	2437	13.25	14.50	1.334	99.48	1.005	0.1	0.261	0.350
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	Non-DBS	6	2437	13.25	14.50	1.334	99.48	1.005	-0.08	0.110	0.147
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 16	Standalone	39	2441	15.18	16.00	1.208	76.83	1.302	0.09	0.267	0.420
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 16	Standalone	39	2441	15.18	16.00	1.208	76.83	1.302	-0.16	0.267	0.420
28	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Standalone	39	2441	15.18	16.00	1.208	76.83	1.302	0.17	0.315	0.495
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 16	Standalone	39	2441	15.18	16.00	1.208	76.83	1.302	0.1	0.284	0.447
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 16	Non-DBS&DBS	39	2441	11.82	12.50	1.169	76.83	1.302	-0.15	0.064	0.097
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 16	Non-DBS&DBS	39	2441	11.82	12.50	1.169	76.83	1.302	-0.16	0.071	0.108
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Non-DBS&DBS	39	2441	11.82	12.50	1.169	76.83	1.302	0.04	0.102	0.155
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 16	Non-DBS&DBS	39	2441	11.82	12.50	1.169	76.83	1.302	-0.04	0.091	0.139
5000MHz																
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(6)	Standalone	58	5290	14.54	15.50	1.248	88.14	1.135	-0.19	0.290	0.411
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(6)	Standalone	58	5290	14.54	15.50	1.248	88.14	1.135	0.08	0.353	0.500
29	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	Standalone	58	5290	14.54	15.50	1.248	88.14	1.135	0.18	0.764	1.082
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	Standalone	58	5290	14.54	15.50	1.248	88.14	1.135	0.03	0.579	0.820
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(17)	Non-DBS	50	5250	9.84	10.50	1.164	94.38	1.060	-0.19	0.090	0.111



	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(17)	Non-DBS	50	5250	9.84	10.50	1.164	94.38	1.060	0.08	0.109	0.134
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(17)	Non-DBS	50	5250	9.84	10.50	1.164	94.38	1.060	0.18	0.244	0.301
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(17)	Non-DBS	50	5250	9.84	10.50	1.164	94.38	1.060	0.03	0.183	0.226
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(17)	DBS	50	5250	8.39	9.00	1.150	94.38	1.060	-0.19	0.064	0.078
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(17)	DBS	50	5250	8.39	9.00	1.150	94.38	1.060	0.08	0.077	0.094
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(17)	DBS	50	5250	8.39	9.00	1.150	94.38	1.060	0.18	0.189	0.230
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(17)	DBS	50	5250	8.39	9.00	1.150	94.38	1.060	0.03	0.129	0.157
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(6)	Standalone	122	5610	13.87	15.00	1.297	88.14	1.135	-0.05	0.487	0.717
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(6)	Standalone	122	5610	13.87	15.00	1.297	88.14	1.135	0.17	0.651	0.959
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	Standalone	122	5610	13.87	15.00	1.297	88.14	1.135	-0.15	0.680	1.001
30	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	Standalone	122	5610	13.87	15.00	1.297	88.14	1.135	0.1	0.735	1.082
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	Standalone	138	5690	13.83	15.00	1.309	88.14	1.135	-0.05	0.677	1.006
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(6)	Non-DBS	114	5570	9.14	10.50	1.367	94.38	1.060	-0.08	0.183	0.265
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(6)	Non-DBS	114	5570	9.14	10.50	1.367	94.38	1.060	0.11	0.225	0.326
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	Non-DBS	114	5570	9.14	10.50	1.367	94.38	1.060	-0.11	0.236	0.342
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(6)	Non-DBS	114	5570	9.14	10.50	1.367	94.38	1.060	-0.07	0.276	0.400
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+17(6)	DBS	114	5570	7.66	9.00	1.361	94.38	1.060	-0.18	0.130	0.188
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+17(6)	DBS	114	5570	7.66	9.00	1.361	94.38	1.060	0.11	0.173	0.250
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+17(6)	DBS	114	5570	7.66	9.00	1.361	94.38	1.060	0.01	0.181	0.261
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+17(6)	DBS	114	5570	7.66	9.00	1.361	94.38	1.060	-0.06	0.196	0.283
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(6)	Standalone	155	5775	14.60	15.50	1.232	88.14	1.135	-0.07	0.532	0.744
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(6)	Standalone	155	5775	14.60	15.50	1.232	88.14	1.135	0.06	0.644	0.900
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	Standalone	155	5775	14.60	15.50	1.232	88.14	1.135	0.12	0.709	0.991
31	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	Standalone	155	5775	14.60	15.50	1.232	88.14	1.135	-0.06	0.774	1.082
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(6)	Non-DBS	155	5775	9.25	10.50	1.334	88.14	1.135	-0.07	0.203	0.307
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(6)	Non-DBS	155	5775	9.25	10.50	1.334	88.14	1.135	0.06	0.210	0.318
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	Non-DBS	155	5775	9.25	10.50	1.334	88.14	1.135	0.12	0.228	0.345
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	Non-DBS	155	5775	9.25	10.50	1.334	88.14	1.135	-0.06	0.270	0.409
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+17(6)	DBS	155	5775	7.70	9.00	1.349	88.14	1.135	-0.15	0.132	0.202
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+17(6)	DBS	155	5775	7.70	9.00	1.349	88.14	1.135	-0.16	0.154	0.236
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+17(6)	DBS	155	5775	7.70	9.00	1.349	88.14	1.135	0.04	0.172	0.263
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+17(6)	DBS	155	5775	7.70	9.00	1.349	88.14	1.135	-0.04	0.201	0.308



16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	23095	707.5	24.51	25.50	1.256	-	-	-0.12	0.141	0.177
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	23095	707.5	24.51	25.50	1.256	-	-	-0.07	0.223	0.280
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	ECI 5	23095	707.5	24.51	25.50	1.256	-	-	0.01	0.258	0.324
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	23095	707.5	24.51	25.50	1.256	-	-	0.14	0.123	0.154
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	ECI 5	23095	707.5	24.51	25.50	1.256	-	-	0.12	0.298	0.374
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	23095	707.5	23.42	24.50	1.282	-	-	0.09	0.117	0.150
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	23095	707.5	23.42	24.50	1.282	-	-	0.03	0.187	0.240
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	ECI 5	23095	707.5	23.42	24.50	1.282	-	-	-0.14	0.212	0.272
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	23095	707.5	23.42	24.50	1.282	-	-	0.13	0.095	0.122
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	23095	707.5	23.10	24.50	1.380	-	-	0.1	0.315	0.435
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	23095	707.5	23.10	24.50	1.380	-	-	-0.12	0.411	0.567
32	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	23095	707.5	23.10	24.50	1.380	-	-	-0.04	0.675	0.932
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	23095	707.5	23.10	24.50	1.380	-	-	-0.13	0.306	0.422
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECI 5	23095	707.5	22.89	24.50	1.449	-	-	0.12	0.351	0.509
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECI 5	23095	707.5	22.89	24.50	1.449	-	-	0.04	0.431	0.624
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECI 5	23095	707.5	22.89	24.50	1.449	-	-	-0.01	0.569	0.824
	LTE Band 12	10M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 5	23095	707.5	22.85	24.50	1.462	-	-	0.05	0.553	0.809
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 5	23230	782	25.09	25.70	1.151	-	-	-0.08	0.241	0.277
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 5	23230	782	25.09	25.70	1.151	-	-	0.13	0.400	0.460
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	ECI 5	23230	782	25.09	25.70	1.151	-	-	-0.19	0.229	0.264
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 5	23230	782	25.09	25.70	1.151	-	-	-0.1	0.251	0.289
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 5	23230	782	24.00	24.70	1.175	-	-	-0.11	0.187	0.220
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 5	23230	782	24.00	24.70	1.175	-	-	0.03	0.318	0.374
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	ECI 5	23230	782	24.00	24.70	1.175	-	-	-0.18	0.155	0.182
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 5	23230	782	24.00	24.70	1.175	-	-	0.08	0.198	0.233
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 5	23230	782	20.93	22.00	1.279	-	-	-0.15	0.406	0.519
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 5	23230	782	20.93	22.00	1.279	-	-	-0.15	0.496	0.635
33	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 5	23230	782	20.93	22.00	1.279	-	-	0.14	0.680	0.870
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	ECI 5	23230	782	20.90	22.00	1.288	-	-	0.03	0.384	0.495
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	ECI 5	23230	782	20.90	22.00	1.288	-	-	0.15	0.480	0.618
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	ECI 5	23230	782	20.90	22.00	1.288	-	-	0.06	0.595	0.767
	LTE Band 13	10M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 5	23230	782	20.89	22.00	1.291	-	-	0.03	0.583	0.753
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	ECI 5	141500	707.5	24.75	25.50	1.189	-	-	-0.04	0.141	0.168
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	ECI 5	141500	707.5	24.75	25.50	1.189	-	-	0.02	0.226	0.269
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 0	ECI 5	141500	707.5	24.75	25.50	1.189	-	-	0.15	0.364	0.433
	FR1 n12	15M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	ECI 5	141500	707.5	24.75	25.50	1.189	-	-	0.05	0.127	0.151
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 0	ECI 5	141500	707.5	24.48	25.50	1.265	-	-	-0.17	0.133	0.168
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 0	ECI 5	141500	707.5	24.48	25.50	1.265	-	-	0.01	0.209	0.264
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 0	ECI 5	141500	707.5	24.48	25.50	1.265	-	-	-0.02	0.355	0.449
	FR1 n12	15M	QPSK	36	22	DFT-15	Bottom Side	10mm	Ant 0	ECI 5	141500	707.5	24.48	25.50	1.265	-	-	-0.01	0.116	0.147
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 0	ECI 5	141500	707.5	24.48	25.50	1.265	-	-	0.18	0.153	0.194
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI 5	141500	707.5	22.61	24.00	1.377	-	-	-0.07	0.309	0.426
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 5	141500	707.5	22.61	24.00	1.377	-	-	-0.13	0.382	0.526
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECI 5	141500	707.5	22.61	24.00	1.377	-	-	-0.02	0.526	0.724
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 1	ECI 5	141500	707.5	22.58	24.00	1.387	-	-	0.16	0.402	0.557
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 1	ECI 5	141500	707.5	22.58	24.00	1.387	-	-	-0.07	0.503	0.698
34	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 1	ECI 5	141500	707.5	22.58	24.00	1.387	-	-	-0.13	0.676	0.937
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 1	ECI 5	141500	707.5	22.58	24.00	1.387	-	-	0.08	0.041	0.057
	FR1 n12	15M	QPSK	75	0	DFT-15	Left Side	10mm	Ant 1	ECI 5	141500	707.5	22.45	24.00	1.429	-	-	0.01	0.513	0.733
835MHz																				



	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	10mm	Ant 0	ECl 5	189	836.4	26.76	28.00	1.330	-	-	0.14	0.102	0.136
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	10mm	Ant 0	ECl 5	189	836.4	26.76	28.00	1.330	-	-	-0.13	0.182	0.242
	GSM850	-	-	-	-	DTM Multi-slot class 9	Back	10mm	Ant 0	ECl 5	189	836.4	23.77	24.98	1.321	-	-	0.06	0.169	0.223
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Side	10mm	Ant 0	ECl 5	189	836.4	26.76	28.00	1.330	-	-	0.1	0.119	0.158
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Bottom Side	10mm	Ant 0	ECl 5	189	836.4	26.76	28.00	1.330	-	-	-0.06	0.098	0.130
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	10mm	Ant 1	ECl 5	189	836.4	23.48	24.50	1.265	-	-	-0.12	0.112	0.142
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	10mm	Ant 1	ECl 5	189	836.4	23.48	24.50	1.265	-	-	0.12	0.149	0.188
35	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Side	10mm	Ant 1	ECl 5	189	836.4	23.48	24.50	1.265	-	-	-0.06	0.478	0.605
	GSM850	-	-	-	-	DTM Multi-slot class 9	Left Side	10mm	Ant 1	ECl 5	189	836.4	20.26	21.48	1.324	-	-	0.05	0.429	0.568
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	ECl 5	4182	836.4	23.95	25.00	1.274	-	-	-0.15	0.092	0.117
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	ECl 5	4182	836.4	23.95	25.00	1.274	-	-	0.18	0.164	0.209
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	ECl 5	4182	836.4	23.95	25.00	1.274	-	-	-0.16	0.098	0.125
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	ECl 5	4182	836.4	23.95	25.00	1.274	-	-	0.11	0.084	0.107
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	ECl 5	4182	836.4	20.20	21.50	1.349	-	-	0.19	0.093	0.125
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECl 5	4182	836.4	20.20	21.50	1.349	-	-	0.12	0.126	0.170
36	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECl 5	4182	836.4	20.20	21.50	1.349	-	-	-0.07	0.589	0.795
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	ECl 5	26865	831.5	25.05	25.70	1.161	-	-	-0.11	0.321	0.373
37	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	25.05	25.70	1.161	-	-	0.06	0.530	0.616
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 0	ECl 5	26865	831.5	25.05	25.70	1.161	-	-	-0.18	0.276	0.321
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECl 5	26865	831.5	25.05	25.70	1.161	-	-	0.18	0.256	0.297
	LTE Band 26_Other PA	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	23.96	25.00	1.271	-	-	-0.09	0.438	0.557
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	ECl 5	26865	831.5	23.97	24.70	1.183	-	-	-0.08	0.253	0.299
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	ECl 5	26865	831.5	23.97	24.70	1.183	-	-	0.1	0.389	0.460
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 0	ECl 5	26865	831.5	23.97	24.70	1.183	-	-	-0.09	0.216	0.256
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	ECl 5	26865	831.5	23.97	24.70	1.183	-	-	-0.12	0.201	0.238
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	ECl 5	26865	831.5	20.78	22.00	1.324	-	-	0.05	0.071	0.094
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	ECl 5	26865	831.5	20.78	22.00	1.324	-	-	0.02	0.098	0.130
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECl 5	26865	831.5	20.78	22.00	1.324	-	-	-0.05	0.156	0.207
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	ECl 5	26865	831.5	20.75	22.00	1.334	-	-	-0.02	0.076	0.101
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	ECl 5	26865	831.5	20.75	22.00	1.334	-	-	-0.1	0.105	0.140
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECl 5	26865	831.5	20.75	22.00	1.334	-	-	0.09	0.157	0.209
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECl 5	26865	831.5	20.75	22.00	1.334	-	-	0.18	0.147	0.196
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECl 5	26865	831.5	20.75	22.00	1.334	-	-	0	0.410	0.547
	LTE Band 26_Other PA	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	ECl 5	26865	831.5	19.72	21.50	1.507	-	-	0.05	0.321	0.484
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	ECl 5	166300	831.5	25.35	25.70	1.084	-	-	0	0.336	0.364
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	ECl 5	166300	831.5	25.35	25.70	1.084	-	-	0.15	0.536	0.581
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 0	ECl 5	166300	831.5	25.35	25.70	1.084	-	-	-0.13	0.352	0.382
	FR1 n26	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	ECl 5	166300	831.5	25.35	25.70	1.084	-	-	0.04	0.265	0.287
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	ECl 5	166300	831.5	25.03	25.70	1.167	-	-	-0.17	0.325	0.379
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	ECl 5	166300	831.5	25.03	25.70	1.167	-	-	0.16	0.511	0.596
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 0	ECl 5	166300	831.5	25.03	25.70	1.167	-	-	0.11	0.335	0.391
	FR1 n26	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	ECl 5	166300	831.5	25.03	25.70	1.167	-	-	-0.19	0.236	0.275
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECl 5	166300	831.5	20.53	21.50	1.250	-	-	0.01	0.294	0.368
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECl 5	166300	831.5	20.53	21.50	1.250	-	-	0.13	0.339	0.424
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECl 5	166300	831.5	20.53	21.50	1.250	-	-	-0.16	0.412	0.515
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 1	ECl 5	166300	831.5	20.50	21.50	1.259	-	-	0.16	0.287	0.361
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECl 5	166300	831.5	20.50	21.50	1.259	-	-	0.05	0.352	0.443
38	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 1	ECl 5	166300	831.5	20.50	21.50	1.259	-	-	-0.11	0.485	0.611
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 1	ECl 5	166300	831.5	20.50	21.50	1.259	-	-	0.09	0.363	0.457
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 1	ECl 5	166300	831.5	20.50	21.50	1.259	-	-	0.04	0.362	0.456
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	ECl 5	1413	1732.6	18.68	19.50	1.208	-	-	0.08	0.216	0.261
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECl 5	1413	1732.6	18.68	19.50	1.208	-	-	0.02	0.271	0.327
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECl 5	1413	1732.6	18.68	19.50	1.208	-	-	-0.09	0.091	0.110



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39	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 5	1413	1732.6	18.68	19.50	1.208	-	-	0.19	0.429	0.518
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 5	ECI 5	1413	1732.6	20.11	21.50	1.377	-	-	0.1	0.149	0.205
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 5	ECI 5	1413	1732.6	20.11	21.50	1.377	-	-	0.03	0.208	0.286
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 5	ECI 5	1413	1732.6	20.11	21.50	1.377	-	-	0.08	0.286	0.394
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	20175	1732.5	18.52	19.20	1.169	-	-	-0.04	0.182	0.213
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	20175	1732.5	18.52	19.20	1.169	-	-	-0.13	0.271	0.317
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	20175	1732.5	18.52	19.20	1.169	-	-	0.1	0.136	0.159
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	20175	1732.5	18.52	19.20	1.169	-	-	0.04	0.311	0.364
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	20175	1732.5	18.48	19.20	1.180	-	-	-0.09	0.240	0.283
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	20175	1732.5	18.48	19.20	1.180	-	-	-0.02	0.360	0.425
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	20175	1732.5	18.48	19.20	1.180	-	-	-0.05	0.142	0.168
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	20175	1732.5	18.48	19.20	1.180	-	-	-0.17	0.374	0.441
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	20175	1732.5	16.33	17.50	1.309	-	-	-0.03	0.333	0.436
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	20175	1732.5	22.98	24.00	1.265	-	-	-0.14	0.351	0.444
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	20175	1732.5	22.98	24.00	1.265	-	-	-0.07	0.482	0.610
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	20175	1732.5	22.98	24.00	1.265	-	-	-0.04	0.227	0.287
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	20175	1732.5	22.98	24.00	1.265	-	-	0.01	0.501	0.634
40	LTE Band 4_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	20175	1732.5	22.87	24.00	1.297	-	-	-0.15	0.602	0.781
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	20175	1732.5	22.95	24.00	1.274	-	-	0.18	0.304	0.387
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	20175	1732.5	22.95	24.00	1.274	-	-	0.04	0.430	0.548
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECI 5	20175	1732.5	22.95	24.00	1.274	-	-	0.06	0.225	0.287
	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 5	20175	1732.5	22.95	24.00	1.274	-	-	0.05	0.460	0.586
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 5	20175	1732.5	20.55	21.70	1.303	-	-	0.13	0.143	0.186
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 5	20175	1732.5	20.55	21.70	1.303	-	-	0.02	0.213	0.278
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 5	20175	1732.5	20.55	21.70	1.303	-	-	-0.05	0.303	0.395
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 5	20175	1732.5	20.53	21.70	1.309	-	-	0.02	0.132	0.173
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 5	20175	1732.5	20.53	21.70	1.309	-	-	0.18	0.198	0.259
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	20175	1732.5	20.53	21.70	1.309	-	-	-0.06	0.344	0.450
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	20175	1732.5	20.53	21.70	1.309	-	-	-0.16	0.225	0.295
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 5	20175	1732.5	20.29	21.50	1.321	-	-	-0.04	0.256	0.338
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 5	20175	1732.5	17.05	18.50	1.396	-	-	0.13	0.071	0.099
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 5	20175	1732.5	17.05	18.50	1.396	-	-	-0.09	0.124	0.172
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 5	20175	1732.5	17.05	18.50	1.396	-	-	0.17	0.167	0.233
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 5	20175	1732.5	17.05	18.50	1.396	-	-	0.09	0.019	0.027
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 5	20175	1732.5	17.00	18.50	1.413	-	-	0	0.078	0.109
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 5	20175	1732.5	17.00	18.50	1.413	-	-	-0.12	0.125	0.177
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	20175	1732.5	17.00	18.50	1.413	-	-	0.04	0.166	0.235
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	20175	1732.5	17.00	18.50	1.413	-	-	-0.18	0.019	0.027
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 5	20175	1732.5	16.69	18.00	1.352	-	-	-0.08	0.119	0.160
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	132322	1745	17.98	19.00	1.265	-	-	-0.19	0.233	0.295
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	132322	1745	17.98	19.00	1.265	-	-	-0.16	0.348	0.440
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	132322	1745	17.98	19.00	1.265	-	-	-0.12	0.130	0.164
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	132322	1745	17.98	19.00	1.265	-	-	-0.17	0.449	0.568
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	132322	1745	16.63	17.50	1.222	-	-	0.13	0.433	0.529
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	132322	1745	17.95	19.00	1.274	-	-	-0.17	0.230	0.293
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	132322	1745	17.95	19.00	1.274	-	-	0	0.341	0.434
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	132322	1745	17.95	19.00	1.274	-	-	-0.14	0.120	0.153
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	132322	1745	17.95	19.00	1.274	-	-	0.05	0.425	0.541
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	132322	1745	22.58	23.00	1.102	-	-	-0.01	0.432	0.476
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	132322	1745	22.58	23.00	1.102	-	-	0.04	0.500	0.551
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	132322	1745	22.58	23.00	1.102	-	-	-0.08	0.238	0.262
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132322	1745	22.58	23.00	1.102	-	-	-0.19	0.619	0.682
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132072	1720	22.56	23.00	1.107	-	-	-0.13	0.592	0.655
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132572	1770	22.53	23.00	1.114	-	-	0.14	0.605	0.674
41	LTE Band 66_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132322	1745	22.97	24.00	1.268	-	-	-0.11	0.703	0.891
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	132072	1720	22.85	24.00	1.303	-	-	-0.12	0.621	0.809



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LTE Band 66_Other PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECl 5	132572	1770	22.73	24.00	1.340	-	-	-0.14	0.584	0.782
LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECl 5	132322	1745	22.55	23.00	1.109	-	-	-0.14	0.425	0.471
LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECl 5	132322	1745	22.55	23.00	1.109	-	-	0.03	0.534	0.592
LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECl 5	132322	1745	22.55	23.00	1.109	-	-	-0.18	0.232	0.257
LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECl 5	132322	1745	22.55	23.00	1.109	-	-	-0.07	0.616	0.683
LTE Band 66_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECl 5	132322	1745	22.76	24.00	1.330	-	-	0.05	0.663	0.882
LTE Band 66_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECl 5	132072	1720	22.70	24.00	1.349	-	-	0.13	0.611	0.824
LTE Band 66_Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECl 5	132572	1770	22.61	24.00	1.377	-	-	-0.17	0.577	0.795
LTE Band 66_Other PA	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	ECl 5	132322	1745	22.72	24.00	1.343	-	-	0.01	0.652	0.875
LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECl 5	132322	1745	19.65	20.50	1.216	-	-	0.11	0.145	0.176
LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECl 5	132322	1745	19.65	20.50	1.216	-	-	-0.1	0.196	0.238
LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	132322	1745	19.65	20.50	1.216	-	-	-0.16	0.303	0.369
LTE Band 66_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	132322	1745	19.55	21.00	1.396	-	-	0.06	0.288	0.402
LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECl 5	132322	1745	19.63	20.50	1.222	-	-	-0.17	0.137	0.167
LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECl 5	132322	1745	19.63	20.50	1.222	-	-	0.13	0.184	0.225
LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECl 5	132322	1745	19.63	20.50	1.222	-	-	-0.06	0.288	0.352
LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECl 5	132322	1745	17.16	18.00	1.213	-	-	0.06	0.075	0.091
LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECl 5	132322	1745	17.16	18.00	1.213	-	-	-0.04	0.141	0.171
LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECl 5	132322	1745	17.16	18.00	1.213	-	-	-0.12	0.192	0.233
LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECl 5	132322	1745	17.16	18.00	1.213	-	-	-	n/a	n/a
LTE Band 66_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECl 5	132322	1745	16.98	18.50	1.419	-	-	0.01	0.179	0.253
LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECl 5	132322	1745	17.05	18.00	1.245	-	-	-0.17	0.076	0.095
LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECl 5	132322	1745	17.05	18.00	1.245	-	-	0.1	0.141	0.176
LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECl 5	132322	1745	17.05	18.00	1.245	-	-	0.15	0.186	0.232
LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECl 5	132322	1745	17.05	18.00	1.245	-	-	-	n/a	n/a
FR1 n66	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECl 5	349000	1745	19.03	20.00	1.250	-	-	-0.07	0.142	0.178
FR1 n66	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECl 5	349000	1745	19.03	20.00	1.250	-	-	-0.16	0.225	0.281
FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECl 5	349000	1745	19.03	20.00	1.250	-	-	-0.06	0.054	0.068
FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECl 5	349000	1745	19.03	20.00	1.250	-	-	-0.02	0.269	0.336
FR1 n66	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 4	ECl 5	349000	1745	19.01	20.00	1.256	-	-	0	0.152	0.191
FR1 n66	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 4	ECl 5	349000	1745	19.01	20.00	1.256	-	-	0.18	0.223	0.280
FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	10mm	Ant 4	ECl 5	349000	1745	19.01	20.00	1.256	-	-	0.06	0.053	0.067
FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	10mm	Ant 4	ECl 5	349000	1745	19.01	20.00	1.256	-	-	-0.07	0.320	0.402
FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Top Side	10mm	Ant 4	ECl 5	349000	1745	18.09	19.50	1.384	-	-	-0.06	0.268	0.371
FR1 n66	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	ECl 5	349000	1745	23.03	24.50	1.403	-	-	0.12	0.376	0.527
FR1 n66	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECl 5	349000	1745	23.03	24.50	1.403	-	-	-0.04	0.558	0.783
FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 2	ECl 5	349000	1745	23.03	24.50	1.403	-	-	0	0.238	0.334
FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECl 5	349000	1745	23.03	24.50	1.403	-	-	0.19	0.638	0.895
42 FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECl 5	349000	1745	23.96	25.00	1.271	-	-	-0.03	0.708	0.900
FR1 n66	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 2	ECl 5	349000	1745	22.74	24.50	1.500	-	-	-0.05	0.379	0.568
FR1 n66	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 2	ECl 5	349000	1745	22.74	24.50	1.500	-	-	-0.12	0.507	0.760
FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	10mm	Ant 2	ECl 5	349000	1745	22.74	24.50	1.500	-	-	0.02	0.249	0.373
FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	10mm	Ant 2	ECl 5	349000	1745	22.74	24.50	1.500	-	-	0.1	0.593	0.889
FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	10mm	Ant 2	ECl 5	349000	1745	21.78	23.50	1.486	-	-	0.13	0.563	0.837
FR1 n66	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	ECl 5	349000	1745	18.83	20.00	1.309	-	-	0.19	0.151	0.198
FR1 n66	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 5	ECl 5	349000	1745	18.83	20.00	1.309	-	-	0.18	0.164	0.215
FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 5	ECl 5	349000	1745	18.83	20.00	1.309	-	-	0.09	0.305	0.399
FR1 n66	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 5	ECl 5	349000	1745	18.80	20.00	1.318	-	-	0.05	0.156	0.206
FR1 n66	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 5	ECl 5	349000	1745	18.80	20.00	1.318	-	-	0.14	0.234	0.308
FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	10mm	Ant 5	ECl 5	349000	1745	18.80	20.00	1.318	-	-	0.07	0.341	0.450
FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Right Side	10mm	Ant 5	ECl 5	349000	1745	19.28	20.50	1.324	-	-	0.01	0.279	0.369
FR1 n66	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 3	ECl 5	349000	1745	17.08	18.50	1.387	-	-	-0.11	0.061	0.085
FR1 n66	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 3	ECl 5	349000	1745	17.08	18.50	1.387	-	-	-0.05	0.107	0.148
FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 3	ECl 5	349000	1745	17.08	18.50	1.387	-	-	-0.17	0.141	0.196
FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 3	ECl 5	349000	1745	17.08	18.50	1.387	-	-	-	n/a	n/a
FR1 n66	40M	QPSK	108	54	DFT-15	Front	10mm	Ant 3	ECl 5	349000	1745	17.05	18.50	1.396	-	-	-0.01	0.069	0.096



Table with columns for test parameters (FR1 n66, 40M, QPSK, 108, 54, DFT-15, Back, 10mm, Ant 3, ECI 5, 349000, 1745, 17.05, 18.50, 1.396, etc.) and SAR values. Includes sub-sections for 1900MHz and LTE Band 2.



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	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 5	18900	1880	18.85	20.00	1.303	-	-	-	n/a	n/a
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 5	376000	1880	19.50	20.50	1.259	-	-	-0.08	0.170	0.214
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 5	376000	1880	19.50	20.50	1.259	-	-	0.17	0.210	0.264
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 5	376000	1880	19.50	20.50	1.259	-	-	-0.03	0.158	0.199
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 5	376000	1880	19.50	20.50	1.259	-	-	-0.18	0.236	0.297
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 4	ECI 5	376000	1880	19.48	20.50	1.265	-	-	0.19	0.162	0.205
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 4	ECI 5	376000	1880	19.48	20.50	1.265	-	-	0.07	0.205	0.259
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 4	ECI 5	376000	1880	19.48	20.50	1.265	-	-	-0.01	0.172	0.218
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 5	376000	1880	19.48	20.50	1.265	-	-	-0.03	0.218	0.276
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	ECI 5	376000	1880	23.00	24.50	1.413	-	-	-0.18	0.348	0.492
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 5	376000	1880	23.00	24.50	1.413	-	-	0.19	0.453	0.640
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 2	ECI 5	376000	1880	23.00	24.50	1.413	-	-	-0.12	0.249	0.352
46	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	376000	1880	23.00	24.50	1.413	-	-	0.08	0.752	1.062
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	372000	1860	22.95	24.50	1.429	-	-	0.17	0.678	0.969
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	380000	1900	22.98	24.50	1.419	-	-	-0.11	0.702	0.996
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 2	ECI 5	376000	1880	22.65	24.50	1.531	-	-	0.06	0.312	0.478
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 2	ECI 5	376000	1880	22.65	24.50	1.531	-	-	-0.08	0.422	0.646
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	10mm	Ant 2	ECI 5	376000	1880	22.65	24.50	1.531	-	-	-0.16	0.221	0.338
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	376000	1880	22.65	24.50	1.531	-	-	-0.11	0.650	0.995
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	372000	1860	22.62	24.50	1.542	-	-	-0.03	0.635	0.979
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	380000	1900	22.53	24.50	1.574	-	-	-0.11	0.655	1.031
	FR1 n2	20M	QPSK	100	0	DFT-15	Bottom Side	10mm	Ant 2	ECI 5	376000	1880	21.80	23.50	1.479	-	-	0.17	0.585	0.865
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	ECI 5	376000	1880	18.55	20.00	1.396	-	-	0.08	0.171	0.239
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 5	ECI 5	376000	1880	18.55	20.00	1.396	-	-	-0.01	0.295	0.412
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 5	ECI 5	376000	1880	18.55	20.00	1.396	-	-	0.02	0.365	0.510
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 5	ECI 5	376000	1880	18.55	20.00	1.396	-	-	0.12	0.163	0.228
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 5	ECI 5	376000	1880	18.52	20.00	1.406	-	-	0.08	0.175	0.246
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 5	ECI 5	376000	1880	18.52	20.00	1.406	-	-	-0.12	0.299	0.420
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	10mm	Ant 5	ECI 5	376000	1880	18.52	20.00	1.406	-	-	-0.09	0.464	0.652
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 3	ECI 5	376000	1880	18.42	19.50	1.282	-	-	0.03	0.116	0.149
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 3	ECI 5	376000	1880	18.42	19.50	1.282	-	-	0.04	0.160	0.205
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 3	ECI 5	376000	1880	18.42	19.50	1.282	-	-	0	0.229	0.294
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 3	ECI 5	376000	1880	18.42	19.50	1.282	-	-	0.01	0.033	0.042
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 3	ECI 5	376000	1880	18.40	19.50	1.288	-	-	-0.08	0.109	0.140
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 3	ECI 5	376000	1880	18.40	19.50	1.288	-	-	-0.06	0.150	0.193
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 3	ECI 5	376000	1880	18.40	19.50	1.288	-	-	0.01	0.241	0.310
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 3	ECI 5	376000	1880	18.40	19.50	1.288	-	-	-0.04	0.032	0.041
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 5	21100	2535	19.08	19.70	1.153	-	-	0.17	0.213	0.246
47	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	21100	2535	19.08	19.70	1.153	-	-	-0.01	0.501	0.578
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	21100+20902	2535+2515.2	18.48	19.70	1.324	-	-	0.05	0.389	0.515
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 5	21100	2535	19.08	19.70	1.153	-	-	-0.16	0.185	0.213
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 5	21100	2535	19.08	19.70	1.153	-	-	0.11	0.373	0.430
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 5	21100	2535	16.08	17.50	1.387	-	-	-0.07	0.233	0.323
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 5	21100	2535	19.05	19.70	1.161	-	-	-0.07	0.208	0.242
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 5	21100	2535	19.05	19.70	1.161	-	-	0.05	0.489	0.568
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 5	21100	2535	19.05	19.70	1.161	-	-	0.16	0.226	0.262
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 5	21100	2535	19.05	19.70	1.161	-	-	0.06	0.377	0.438
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 5	21100	2535	20.90	22.00	1.288	-	-	-0.13	0.386	0.497
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	21100	2535	20.90	22.00	1.288	-	-	-0.01	0.427	0.550
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	21100+20902	2535+2515.2	20.81	22.00	1.315	-	-	0.05	0.337	0.443
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECI 5	21100	2535	20.90	22.00	1.288	-	-	0.08	0.185	0.238
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 5	21100	2535	20.90	22.00	1.288	-	-	-0.03	0.326	0.420
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 5	21100	2535	20.76	22.50	1.493	-	-	-0.19	0.367	0.548
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 5	21100	2535	20.88	22.00	1.294	-	-	0.11	0.264	0.341
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 5	21100	2535	20.88	22.00	1.294	-	-	0.04	0.422	0.546



	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECl 5	21100	2535	20.88	22.00	1.294	-	-	0.06	0.192	0.249
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECl 5	21100	2535	20.88	22.00	1.294	-	-	0.15	0.362	0.468
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECl 5	21100	2535	20.25	21.20	1.245	-	-	0.01	0.219	0.273
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECl 5	21100	2535	20.25	21.20	1.245	-	-	-0.19	0.327	0.407
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	21100	2535	20.25	21.20	1.245	-	-	0.15	0.352	0.438
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	21100+20902	2535+2515.2	20.20	21.20	1.259	-	-	0.06	0.321	0.404
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	21100	2535	19.15	20.50	1.365	-	-	0.1	0.301	0.411
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECl 5	21100	2535	20.13	21.20	1.279	-	-	-0.11	0.214	0.274
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECl 5	21100	2535	20.13	21.20	1.279	-	-	0.05	0.317	0.406
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECl 5	21100	2535	20.13	21.20	1.279	-	-	-0.18	0.339	0.434
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECl 5	21100	2535	17.20	18.50	1.349	-	-	0	0.121	0.163
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECl 5	21100	2535	17.20	18.50	1.349	-	-	0.05	0.224	0.302
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECl 5	21100+20902	2535+2515.2	16.53	18.50	1.574	-	-	0.01	0.183	0.288
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECl 5	21100	2535	17.20	18.50	1.349	-	-	-0.11	0.106	0.143
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECl 5	21100	2535	17.20	18.50	1.349	-	-	-	n/a	n/a
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECl 5	21100	2535	17.15	17.50	1.084	-	-	-0.08	0.200	0.217
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECl 5	21100	2535	17.15	18.50	1.365	-	-	-0.17	0.117	0.160
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECl 5	21100	2535	17.15	18.50	1.365	-	-	-0.01	0.220	0.300
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECl 5	21100	2535	17.15	18.50	1.365	-	-	-0.17	0.108	0.147
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECl 5	21100	2535	17.15	18.50	1.365	-	-	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECl 5	38000	2595	20.00	20.70	1.175	62.9	1.006	-0.05	0.190	0.225
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECl 5	38000	2595	20.00	20.70	1.175	62.9	1.006	0.1	0.401	0.474
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECl 5	37901+38099	2585.1+2604.9	19.64	20.70	1.276	62.9	1.006	0.05	0.336	0.431
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECl 5	38000	2595	20.00	20.70	1.175	62.9	1.006	0.19	0.088	0.104
	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECl 5	38000	2595	20.00	20.70	1.175	62.9	1.006	0	0.396	0.468
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECl 5	38000	2595	15.68	17.00	1.355	62.9	1.006	0.1	0.176	0.240
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECl 5	38000	2595	19.98	20.70	1.180	62.9	1.006	-0.09	0.171	0.203
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECl 5	38000	2595	19.98	20.70	1.180	62.9	1.006	-0.07	0.384	0.456
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECl 5	38000	2595	19.98	20.70	1.180	62.9	1.006	0.14	0.083	0.099
	LTE Band 38	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECl 5	38000	2595	19.98	20.70	1.180	62.9	1.006	-0.11	0.364	0.432
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECl 5	38000	2595	23.55	24.50	1.245	62.9	1.006	0.08	0.158	0.198
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECl 5	38000	2595	23.55	24.50	1.245	62.9	1.006	-0.18	0.293	0.367
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECl 5	37901+38099	2585.1+2604.9	23.49	24.50	1.262	62.9	1.006	0.04	0.238	0.302
	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	ECl 5	38000	2595	23.55	24.50	1.245	62.9	1.006	0	0.205	0.257
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECl 5	38000	2595	23.55	24.50	1.245	62.9	1.006	0	0.197	0.247
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECl 5	38000	2595	22.79	24.50	1.483	62.9	1.006	0.1	0.232	0.346
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECl 5	38000	2595	22.56	23.50	1.242	62.9	1.006	-0.05	0.122	0.152
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECl 5	38000	2595	22.56	23.50	1.242	62.9	1.006	-0.18	0.216	0.270
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	ECl 5	38000	2595	22.56	23.50	1.242	62.9	1.006	0.06	0.161	0.201
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECl 5	38000	2595	22.56	23.50	1.242	62.9	1.006	0.04	0.153	0.191
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECl 5	38000	2595	21.70	22.20	1.122	62.9	1.006	0.11	0.211	0.238
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECl 5	38000	2595	21.70	22.20	1.122	62.9	1.006	0.09	0.378	0.427
	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	38000	2595	21.70	22.20	1.122	62.9	1.006	-0.07	0.421	0.475
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	37901+38099	2585.1+2604.9	21.38	22.20	1.208	62.9	1.006	-0.03	0.384	0.467
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECl 5	38000	2595	19.04	20.50	1.400	62.9	1.006	-0.05	0.182	0.256
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECl 5	38000	2595	21.67	22.20	1.130	62.9	1.006	0.02	0.162	0.184
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECl 5	38000	2595	21.67	22.20	1.130	62.9	1.006	0.12	0.291	0.331
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECl 5	38000	2595	21.67	22.20	1.130	62.9	1.006	0.12	0.374	0.425
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECl 5	38000	2595	19.01	20.00	1.256	62.9	1.006	0.19	0.154	0.195
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECl 5	38000	2595	19.01	20.00	1.256	62.9	1.006	0.17	0.346	0.437
48	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECl 5	38000	2595	19.01	20.00	1.256	62.9	1.006	-0.08	0.381	0.481
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECl 5	37901+38099	2585.1+2604.9	18.64	20.00	1.368	62.9	1.006	0.02	0.343	0.472
	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECl 5	38000	2595	19.01	20.00	1.256	62.9	1.006	-	n/a	n/a
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECl 5	38000	2595	17.59	18.50	1.233	62.9	1.006	0.04	0.155	0.192
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECl 5	38000	2595	19.00	20.00	1.259	62.9	1.006	0.1	0.159	0.201



FCC SAR Test Report

Report No. : FA442515

Table with columns for Band, Power, Modulation, Frequency, etc. Includes rows for LTE Band 38, LTE Band 41, and FR1 n7.



FCC SAR Test Report

Report No. : FA442515

Table with columns for device ID, power, modulation, frequency, time, location, antenna, exposure, and SAR values. Row 51 is highlighted in yellow.



	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 2	ECl 5	518598	2592.99	20.25	21.50	1.334	-	-	-0.13	0.130	0.173
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 2	ECl 5	518598	2592.99	20.25	21.50	1.334	-	-	0.06	0.241	0.321
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 2	ECl 5	518598	2592.99	20.25	21.50	1.334	-	-	-0.02	0.111	0.148
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant 2	ECl 5	518598	2592.99	20.25	21.50	1.334	-	-	0.03	0.221	0.295
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 5	ECl 5	518598	2592.99	20.15	21.00	1.216	-	-	0.14	0.175	0.213
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	ECl 5	518598	2592.99	20.15	21.00	1.216	-	-	-0.18	0.276	0.336
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 5	ECl 5	518598	2592.99	20.15	21.00	1.216	-	-	0.01	0.352	0.428
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 5	ECl 5	518598	2592.99	20.13	21.00	1.222	-	-	0.08	0.207	0.253
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 5	ECl 5	518598	2592.99	20.13	21.00	1.222	-	-	-0.09	0.308	0.376
52	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 5	ECl 5	518598	2592.99	20.13	21.00	1.222	-	-	0.02	0.476	0.582
	FR1 n41 PC2	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 5	ECl 5	518598	2592.99	23.45	24.00	1.135	50	1.000	0.09	0.470	0.533
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 3	ECl 5	518598	2592.99	16.80	18.00	1.318	-	-	-0.16	0.098	0.129
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 3	ECl 5	518598	2592.99	16.80	18.00	1.318	-	-	-0.12	0.214	0.282
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 3	ECl 5	518598	2592.99	16.80	18.00	1.318	-	-	-0.05	0.239	0.315
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 3	ECl 5	518598	2592.99	16.80	18.00	1.318	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 3	ECl 5	518598	2592.99	16.78	18.00	1.324	-	-	-0.07	0.083	0.110
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 3	ECl 5	518598	2592.99	16.78	18.00	1.324	-	-	-0.04	0.257	0.340
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 3	ECl 5	518598	2592.99	16.78	18.00	1.324	-	-	-0.17	0.269	0.356
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 3	ECl 5	518598	2592.99	16.78	18.00	1.324	-	-	-	n/a	n/a
	FR1 n41 PC2	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 3	ECl 5	518598	2592.99	20.40	21.00	1.148	50	1.000	-0.11	0.285	0.327
3000MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 6	ECl 5	42590	3500	18.10	18.70	1.148	62.9	1.006	0.05	0.136	0.157
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 6	ECl 5	42590	3500	18.10	18.70	1.148	62.9	1.006	0.15	0.213	0.246
	LTE Band 42	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	ECl 5	42590	3500	18.10	18.70	1.148	62.9	1.006	0.08	0.055	0.064
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECl 5	42590	3500	18.10	18.70	1.148	62.9	1.006	-0.16	0.405	0.468
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 6	ECl 5	42590	3500	18.08	18.70	1.153	62.9	1.006	-0.17	0.130	0.151
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 6	ECl 5	42590	3500	18.08	18.70	1.153	62.9	1.006	0.07	0.208	0.241
	LTE Band 42	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	ECl 5	42590	3500	18.08	18.70	1.153	62.9	1.006	-0.03	0.054	0.063
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECl 5	42590	3500	18.08	18.70	1.153	62.9	1.006	-0.09	0.403	0.468
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 8	ECl 5	42590	3500	19.40	21.00	1.445	62.9	1.006	0.11	0.141	0.205
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 8	ECl 5	42590	3500	19.40	21.00	1.445	62.9	1.006	0.07	0.225	0.327
	LTE Band 42	20M	QPSK	1	0	-	Left Side	10mm	Ant 8	ECl 5	42590	3500	19.40	21.00	1.445	62.9	1.006	0.13	0.156	0.227
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	ECl 5	42590	3500	19.40	21.00	1.445	62.9	1.006	-0.19	0.179	0.260
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 8	ECl 5	42590	3500	19.38	21.00	1.452	62.9	1.006	-0.12	0.137	0.200
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 8	ECl 5	42590	3500	19.38	21.00	1.452	62.9	1.006	-0.1	0.212	0.310
	LTE Band 42	20M	QPSK	50	0	-	Left Side	10mm	Ant 8	ECl 5	42590	3500	19.38	21.00	1.452	62.9	1.006	-0.16	0.147	0.215
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	ECl 5	42590	3500	19.38	21.00	1.452	62.9	1.006	0.01	0.170	0.248
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 7	ECl 5	42590	3500	17.40	18.50	1.288	62.9	1.006	-0.07	0.111	0.144
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECl 5	42590	3500	17.40	18.50	1.288	62.9	1.006	-0.12	0.144	0.187
	LTE Band 42	20M	QPSK	1	0	-	Right Side	10mm	Ant 7	ECl 5	42590	3500	17.40	18.50	1.288	62.9	1.006	-0.19	0.221	0.286
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	ECl 5	42590	3500	17.40	18.50	1.288	62.9	1.006	-	n/a	n/a
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 7	ECl 5	42590	3500	17.38	18.50	1.294	62.9	1.006	0.19	0.105	0.137
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECl 5	42590	3500	17.38	18.50	1.294	62.9	1.006	0.01	0.137	0.178
	LTE Band 42	20M	QPSK	50	0	-	Right Side	10mm	Ant 7	ECl 5	42590	3500	17.38	18.50	1.294	62.9	1.006	-0.07	0.215	0.280
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	ECl 5	42590	3500	17.38	18.50	1.294	62.9	1.006	-	n/a	n/a
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 9	ECl 5	42590	3500	16.06	17.50	1.393	62.9	1.006	-0.01	0.035	0.049
53	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	42590	3500	16.06	17.50	1.393	62.9	1.006	-0.18	0.621	0.870
	LTE Band 42	20M	QPSK	1	0	-	Left Side	10mm	Ant 9	ECl 5	42590	3500	16.06	17.50	1.393	62.9	1.006	0.08	0.167	0.234
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 9	ECl 5	42590	3500	16.06	17.50	1.393	62.9	1.006	-	n/a	n/a
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	42190	3460	16.00	17.50	1.413	62.9	1.006	-0.07	0.576	0.819
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	42990	3540	15.82	17.50	1.472	62.9	1.006	-0.12	0.521	0.772
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 9	ECl 5	42590	3500	16.05	17.50	1.396	62.9	1.006	0.01	0.033	0.046
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECl 5	42590	3500	16.05	17.50	1.396	62.9	1.006	0.12	0.556	0.781
	LTE Band 42	20M	QPSK	50	0	-	Left Side	10mm	Ant 9	ECl 5	42590	3500	16.05	17.50	1.396	62.9	1.006	-0.12	0.150	0.211
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 9	ECl 5	42590	3500	16.05	17.50	1.396	62.9	1.006	-	n/a	n/a
	LTE Band 42	20M	QPSK	100	0	-	Back	10mm	Ant 9	ECl 5	42590	3500	16.03	17.50	1.403	62.9	1.006	0.03	0.535	0.755



	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 6	ECl 5	55830	3609	19.68	20.70	1.265	62.9	1.006	-0.05	0.167	0.212
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 6	ECl 5	55830	3609	19.68	20.70	1.265	62.9	1.006	-0.11	0.420	0.534
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	ECl 5	55830	3609	19.68	20.70	1.265	62.9	1.006	0.01	0.072	0.092
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECl 5	55830	3609	19.68	20.70	1.265	62.9	1.006	-0.16	0.517	0.658
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECl 5	55340	3560	19.59	20.70	1.291	62.9	1.006	0.16	0.575	0.747
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECl 5	56150	3641	19.60	20.70	1.288	62.9	1.006	0.06	0.479	0.621
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	ECl 5	56640	3690	19.64	20.70	1.276	62.9	1.006	-0.03	0.450	0.578
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 6	ECl 5	55830	3609	19.65	20.70	1.274	62.9	1.006	0.05	0.168	0.215
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 6	ECl 5	55830	3609	19.65	20.70	1.274	62.9	1.006	0.07	0.333	0.427
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	ECl 5	55830	3609	19.65	20.70	1.274	62.9	1.006	-0.15	0.068	0.087
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECl 5	55830	3609	19.65	20.70	1.274	62.9	1.006	0.08	0.512	0.656
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECl 5	55340	3560	19.58	20.70	1.294	62.9	1.006	0.16	0.505	0.657
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECl 5	56150	3641	19.58	20.70	1.294	62.9	1.006	-0.12	0.471	0.613
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	ECl 5	56640	3690	19.62	20.70	1.282	62.9	1.006	-0.1	0.446	0.575
	LTE Band 48	20M	QPSK	100	0	-	Top Side	10mm	Ant 6	ECl 5	55830	3609	19.63	20.70	1.279	62.9	1.006	-0.07	0.503	0.647
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 8	ECl 5	55830	3609	20.22	21.50	1.343	62.9	1.006	-0.07	0.196	0.265
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 8	ECl 5	55830	3609	20.22	21.50	1.343	62.9	1.006	0.18	0.363	0.490
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 8	ECl 5	55830	3609	20.22	21.50	1.343	62.9	1.006	-0.09	0.220	0.297
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 8	ECl 5	55830	3609	20.22	21.50	1.343	62.9	1.006	-0.1	0.295	0.398
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 8	ECl 5	55830	3609	20.00	21.50	1.413	62.9	1.006	0.18	0.161	0.229
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 8	ECl 5	55830	3609	20.00	21.50	1.413	62.9	1.006	-0.08	0.287	0.408
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 8	ECl 5	55830	3609	20.00	21.50	1.413	62.9	1.006	0.17	0.177	0.252
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 8	ECl 5	55830	3609	20.00	21.50	1.413	62.9	1.006	-0.14	0.241	0.342
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 7	ECl 5	55830	3609	16.83	18.50	1.469	62.9	1.006	-0.19	0.107	0.158
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECl 5	55830	3609	16.83	18.50	1.469	62.9	1.006	-0.08	0.118	0.174
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 7	ECl 5	55830	3609	16.83	18.50	1.469	62.9	1.006	-0.14	0.227	0.335
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	ECl 5	55830	3609	16.83	18.50	1.469	62.9	1.006	-	n/a	n/a
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 7	ECl 5	55830	3609	16.82	18.50	1.472	62.9	1.006	0.07	0.102	0.151
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECl 5	55830	3609	16.82	18.50	1.472	62.9	1.006	-0.13	0.114	0.169
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 7	ECl 5	55830	3609	16.82	18.50	1.472	62.9	1.006	0.19	0.220	0.326
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	ECl 5	55830	3609	16.82	18.50	1.472	62.9	1.006	-	n/a	n/a
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 9	ECl 5	55830	3609	15.47	17.00	1.422	62.9	1.006	-0.06	0.000	0.000
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	55830	3609	15.47	17.00	1.422	62.9	1.006	0.05	0.478	0.684
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 9	ECl 5	55830	3609	15.47	17.00	1.422	62.9	1.006	0.16	0.075	0.107
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 9	ECl 5	55830	3609	15.47	17.00	1.422	62.9	1.006	-	n/a	n/a
54	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	55340	3560	15.25	17.00	1.496	62.9	1.006	0.05	0.519	0.781
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	56150	3641	15.35	17.00	1.462	62.9	1.006	0.16	0.387	0.569
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 9	ECl 5	56640	3690	15.30	17.00	1.479	62.9	1.006	0.1	0.316	0.470
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 9	ECl 5	55830	3609	15.45	17.00	1.429	62.9	1.006	-	n/a	n/a
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECl 5	55830	3609	15.45	17.00	1.429	62.9	1.006	0.01	0.458	0.658
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 9	ECl 5	55830	3609	15.45	17.00	1.429	62.9	1.006	-0.02	0.071	0.102
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 9	ECl 5	55830	3609	15.45	17.00	1.429	62.9	1.006	-	n/a	n/a
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECl 5	55340	3560	15.23	17.00	1.503	62.9	1.006	0.18	0.512	0.774
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECl 5	56150	3641	15.33	17.00	1.469	62.9	1.006	0.02	0.379	0.560
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 9	ECl 5	56640	3690	15.28	17.00	1.486	62.9	1.006	-0.02	0.311	0.465
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 9	ECl 5	55830	3609	15.44	17.00	1.432	62.9	1.006	0.04	0.446	0.643
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	ECl 5	541666	3624.99	17.38	18.20	1.208	-	-	0.02	0.118	0.143
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	ECl 5	541666	3624.99	17.38	18.20	1.208	-	-	0.12	0.253	0.306
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 6	ECl 5	541666	3624.99	17.38	18.20	1.208	-	-	0.15	0.075	0.091
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 6	ECl 5	541666	3624.99	17.38	18.20	1.208	-	-	0.04	0.433	0.523
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 6	ECl 5	541666	3624.99	17.35	18.20	1.216	-	-	-0.15	0.100	0.122
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 6	ECl 5	541666	3624.99	17.35	18.20	1.216	-	-	0.03	0.254	0.309
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 6	ECl 5	541666	3624.99	17.35	18.20	1.216	-	-	-0.06	0.067	0.081
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 6	ECl 5	541666	3624.99	17.35	18.20	1.216	-	-	0.1	0.358	0.435
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	ECl 5	541666	3624.99	17.38	19.00	1.452	-	-	-0.14	0.175	0.254
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	ECl 5	541666	3624.99	17.38	19.00	1.452	-	-	0.08	0.268	0.389



	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 8	ECl 5	641666	3624.99	17.38	19.00	1.452	-	-	-0.14	0.184	0.267
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	ECl 5	641666	3624.99	17.38	19.00	1.452	-	-	-0.03	0.186	0.270
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 8	ECl 5	641666	3624.99	17.35	19.00	1.462	-	-	0.15	0.177	0.259
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 8	ECl 5	641666	3624.99	17.35	19.00	1.462	-	-	0.03	0.283	0.414
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	10mm	Ant 8	ECl 5	641666	3624.99	17.35	19.00	1.462	-	-	-0.19	0.184	0.269
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 8	ECl 5	641666	3624.99	17.35	19.00	1.462	-	-	-0.14	0.195	0.285
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECl 5	641666	3624.99	15.58	17.00	1.387	-	-	0.13	0.137	0.190
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECl 5	641666	3624.99	15.58	17.00	1.387	-	-	0.13	0.184	0.255
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	641666	3624.99	15.58	17.00	1.387	-	-	-0.02	0.309	0.429
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECl 5	641666	3624.99	15.58	17.00	1.387	-	-	-	n/a	n/a
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 7	ECl 5	641666	3624.99	15.55	17.00	1.396	-	-	-0.14	0.136	0.190
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 7	ECl 5	641666	3624.99	15.55	17.00	1.396	-	-	0.11	0.183	0.256
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	10mm	Ant 7	ECl 5	641666	3624.99	15.55	17.00	1.396	-	-	-0.1	0.292	0.408
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 7	ECl 5	641666	3624.99	15.55	17.00	1.396	-	-	-0.05	0.042	0.059
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	10mm	Ant 9	ECl 5	641666	3624.99	15.13	16.50	1.371	-	-	-0.11	0.000	0.000
55	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	641666	3624.99	15.13	16.50	1.371	-	-	-0.01	0.657	0.901
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 9	ECl 5	641666	3624.99	15.13	16.50	1.371	-	-	-0.07	0.107	0.147
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 9	ECl 5	641666	3624.99	15.13	16.50	1.371	-	-	-	n/a	n/a
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	638000	3570	15.11	16.50	1.377	-	-	0.06	0.615	0.847
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	645332	3679.98	15.10	16.50	1.380	-	-	0.11	0.587	0.810
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	10mm	Ant 9	ECl 5	641666	3624.99	15.11	16.50	1.377	-	-	-	n/a	n/a
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 9	ECl 5	641666	3624.99	15.11	16.50	1.377	-	-	0.14	0.599	0.825
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	10mm	Ant 9	ECl 5	641666	3624.99	15.11	16.50	1.377	-	-	0.19	0.105	0.145
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	10mm	Ant 9	ECl 5	641666	3624.99	15.11	16.50	1.377	-	-	-	n/a	n/a
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 9	ECl 5	638000	3570	15.10	16.50	1.380	-	-	-0.05	0.608	0.839
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	10mm	Ant 9	ECl 5	645332	3679.98	15.08	16.50	1.387	-	-	0.03	0.573	0.795
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	10mm	Ant 9	ECl 5	641666	3624.99	15.10	16.50	1.380	-	-	0.11	0.585	0.808
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	ECl 5	633332	3499.98	16.75	17.50	1.189	-	-	0.12	0.078	0.093
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	ECl 5	633332	3499.98	16.75	17.50	1.189	-	-	-0.08	0.157	0.187
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 6	ECl 5	633332	3499.98	16.75	17.50	1.189	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 6	ECl 5	633332	3499.98	16.75	17.50	1.189	-	-	0.13	0.236	0.280
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 6	ECl 5	633332	3499.98	16.73	17.50	1.194	-	-	-0.19	0.076	0.091
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	ECl 5	633332	3499.98	16.73	17.50	1.194	-	-	-0.08	0.158	0.189
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 6	ECl 5	633332	3499.98	16.73	17.50	1.194	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	633332	3499.98	16.73	17.50	1.194	-	-	0.06	0.269	0.321
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	633332	3499.98	20.00	20.50	1.122	50	1.000	-0.03	0.304	0.341
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	ECl 5	656000	3840	16.73	17.50	1.194	-	-	-0.14	0.068	0.081
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	ECl 5	656000	3840	16.73	17.50	1.194	-	-	0.01	0.142	0.170
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 6	ECl 5	656000	3840	16.73	17.50	1.194	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 6	ECl 5	656000	3840	16.73	17.50	1.194	-	-	-0.16	0.220	0.263
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 6	ECl 5	656000	3840	16.70	17.50	1.202	-	-	-0.04	0.058	0.070
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	ECl 5	656000	3840	16.70	17.50	1.202	-	-	0.08	0.135	0.162
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 6	ECl 5	656000	3840	16.70	17.50	1.202	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	656000	3840	16.70	17.50	1.202	-	-	0.01	0.219	0.263
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	656000	3840	20.03	20.50	1.114	50	1.000	-0.01	0.237	0.264
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	ECl 5	633332	3499.98	16.88	18.50	1.452	-	-	-0.06	0.181	0.263
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	ECl 5	633332	3499.98	16.88	18.50	1.452	-	-	-0.01	0.196	0.285
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 8	ECl 5	633332	3499.98	16.88	18.50	1.452	-	-	0.18	0.190	0.276
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	ECl 5	633332	3499.98	16.88	18.50	1.452	-	-	0.13	0.185	0.269
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	ECl 5	633332	3499.98	16.85	18.50	1.462	-	-	0	0.163	0.238
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	633332	3499.98	16.85	18.50	1.462	-	-	0.1	0.198	0.290
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 8	ECl 5	633332	3499.98	16.85	18.50	1.462	-	-	-0.15	0.175	0.256
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	ECl 5	633332	3499.98	16.85	18.50	1.462	-	-	-0.12	0.193	0.282
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	633332	3499.98	20.25	21.50	1.334	50	1.000	-0.09	0.217	0.289
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	ECl 5	656000	3840	16.95	18.50	1.429	-	-	0.08	0.129	0.184
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	ECl 5	656000	3840	16.95	18.50	1.429	-	-	-0.13	0.263	0.376



	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 8	ECl 5	565000	3840	16.95	18.50	1.429	-	-	0.08	0.162	0.231
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	ECl 5	565000	3840	16.95	18.50	1.429	-	-	-0.16	0.243	0.347
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	ECl 5	565000	3840	16.93	18.50	1.435	-	-	0	0.120	0.172
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	565000	3840	16.93	18.50	1.435	-	-	-0.17	0.270	0.388
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 8	ECl 5	565000	3840	16.93	18.50	1.435	-	-	-0.11	0.169	0.243
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	ECl 5	565000	3840	16.93	18.50	1.435	-	-	0	0.241	0.346
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	565000	3840	20.05	21.50	1.396	50	1.000	0.01	0.281	0.392
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECl 5	533332	3499.98	16.46	17.50	1.271	-	-	-0.16	0.145	0.184
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECl 5	533332	3499.98	16.46	17.50	1.271	-	-	-0.1	0.173	0.220
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	533332	3499.98	16.46	17.50	1.271	-	-	0	0.302	0.384
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECl 5	533332	3499.98	16.46	17.50	1.271	-	-	0.1	0.049	0.062
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	ECl 5	533332	3499.98	16.45	17.50	1.274	-	-	0.09	0.152	0.194
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECl 5	533332	3499.98	16.45	17.50	1.274	-	-	-0.08	0.189	0.241
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECl 5	533332	3499.98	16.45	17.50	1.274	-	-	0.18	0.306	0.390
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 7	ECl 5	533332	3499.98	16.45	17.50	1.274	-	-	0.15	0.051	0.065
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECl 5	533332	3499.98	19.80	20.50	1.175	50	1.000	-0.12	0.339	0.398
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECl 5	565000	3840	16.58	17.50	1.236	-	-	-0.09	0.102	0.126
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECl 5	565000	3840	16.58	17.50	1.236	-	-	-0.07	0.145	0.179
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	565000	3840	16.58	17.50	1.236	-	-	-0.17	0.228	0.282
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECl 5	565000	3840	16.58	17.50	1.236	-	-	-	n/a	n/a
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	565000	3840	19.88	20.50	1.153	50	1.000	0.05	0.264	0.305
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	ECl 5	565000	3840	16.56	17.50	1.242	-	-	-0.01	0.082	0.102
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECl 5	565000	3840	16.56	17.50	1.242	-	-	-0.13	0.114	0.142
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECl 5	565000	3840	16.56	17.50	1.242	-	-	0.05	0.181	0.225
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 7	ECl 5	565000	3840	16.56	17.50	1.242	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 9	ECl 5	533332	3499.98	14.63	16.00	1.371	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	533332	3499.98	14.63	16.00	1.371	-	-	0.03	0.511	0.701
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 9	ECl 5	533332	3499.98	14.63	16.00	1.371	-	-	0.03	0.083	0.114
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 9	ECl 5	533332	3499.98	14.63	16.00	1.371	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 9	ECl 5	533332	3499.98	14.61	16.00	1.377	-	-	-	n/a	n/a
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 9	ECl 5	533332	3499.98	14.61	16.00	1.377	-	-	-0.13	0.728	1.003
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 9	ECl 5	533332	3499.98	14.61	16.00	1.377	-	-	0.06	0.087	0.120
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 9	ECl 5	533332	3499.98	14.61	16.00	1.377	-	-	-	n/a	n/a
56	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 9	ECl 5	533332	3499.98	18.05	19.00	1.245	50	1.000	0.14	0.867	1.079
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 9	ECl 5	533332	3499.98	14.60	16.00	1.380	-	-	0.11	0.516	0.712
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 9	ECl 5	565000	3840	14.45	16.00	1.429	-	-	0.12	0.052	0.074
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	565000	3840	14.45	16.00	1.429	-	-	0	0.253	0.362
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 9	ECl 5	565000	3840	14.45	16.00	1.429	-	-	-0.16	0.086	0.123
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 9	ECl 5	565000	3840	14.45	16.00	1.429	-	-	-	n/a	n/a
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	565000	3840	17.88	19.00	1.294	50	1.000	0.06	0.258	0.334
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 9	ECl 5	565000	3840	14.43	16.00	1.435	-	-	-0.09	0.063	0.090
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 9	ECl 5	565000	3840	14.43	16.00	1.435	-	-	0.17	0.231	0.332
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 9	ECl 5	565000	3840	14.43	16.00	1.435	-	-	-0.09	0.074	0.106
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 9	ECl 5	565000	3840	14.43	16.00	1.435	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	ECl 5	533332	3499.98	15.73	16.50	1.194	-	-	-0.14	0.083	0.099
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	ECl 5	533332	3499.98	15.73	16.50	1.194	-	-	-0.17	0.140	0.167
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 6	ECl 5	533332	3499.98	15.73	16.50	1.194	-	-	0.03	0.050	0.060
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 6	ECl 5	533332	3499.98	15.73	16.50	1.194	-	-	-0.01	0.265	0.316
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 6	ECl 5	533332	3499.98	15.70	16.50	1.202	-	-	0	0.089	0.107
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	ECl 5	533332	3499.98	15.70	16.50	1.202	-	-	-0.13	0.146	0.176
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 6	ECl 5	533332	3499.98	15.70	16.50	1.202	-	-	0.02	0.047	0.057
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	533332	3499.98	15.70	16.50	1.202	-	-	-0.05	0.277	0.333
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	533332	3499.98	19.15	19.50	1.084	50	1.000	0.03	0.317	0.344
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 6	ECl 5	505000	3750	15.68	16.50	1.208	-	-	-0.01	0.066	0.080
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 6	ECl 5	505000	3750	15.68	16.50	1.208	-	-	-0.16	0.121	0.146
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 6	ECl 5	505000	3750	15.68	16.50	1.208	-	-	0.05	0.029	0.035



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	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 6	ECl 5	650000	3750	15.68	16.50	1.208	-	-	-0.09	0.226	0.273
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 6	ECl 5	650000	3750	15.66	16.50	1.213	-	-	-0.19	0.066	0.080
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 6	ECl 5	650000	3750	15.66	16.50	1.213	-	-	0.06	0.114	0.138
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 6	ECl 5	650000	3750	15.66	16.50	1.213	-	-	0.02	0.029	0.035
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	650000	3750	15.66	16.50	1.213	-	-	-0.12	0.268	0.325
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 6	ECl 5	650000	3750	19.13	19.50	1.089	50	1.000	0.11	0.277	0.302
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	ECl 5	633332	3499.98	17.62	18.50	1.225	-	-	0.07	0.126	0.154
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	ECl 5	633332	3499.98	17.62	18.50	1.225	-	-	0.11	0.147	0.180
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 8	ECl 5	633332	3499.98	17.62	18.50	1.225	-	-	0	0.147	0.180
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	ECl 5	633332	3499.98	17.62	18.50	1.225	-	-	-0.02	0.089	0.109
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	ECl 5	633332	3499.98	17.60	18.50	1.230	-	-	-0.15	0.123	0.151
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	633332	3499.98	17.60	18.50	1.230	-	-	0.16	0.153	0.188
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 8	ECl 5	633332	3499.98	17.60	18.50	1.230	-	-	0.09	0.135	0.166
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	ECl 5	633332	3499.98	17.60	18.50	1.230	-	-	0.17	0.090	0.111
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	633332	3499.98	20.47	21.50	1.268	50	1.000	0.15	0.135	0.171
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 8	ECl 5	650000	3750	17.58	18.50	1.236	-	-	-0.08	0.094	0.116
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 8	ECl 5	650000	3750	17.58	18.50	1.236	-	-	-0.07	0.170	0.210
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 8	ECl 5	650000	3750	17.58	18.50	1.236	-	-	-0.16	0.102	0.126
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 8	ECl 5	650000	3750	17.58	18.50	1.236	-	-	0.15	0.127	0.157
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 8	ECl 5	650000	3750	17.55	18.50	1.245	-	-	-0.01	0.091	0.113
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	650000	3750	17.55	18.50	1.245	-	-	0.19	0.177	0.220
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 8	ECl 5	650000	3750	17.55	18.50	1.245	-	-	0.09	0.096	0.119
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 8	ECl 5	650000	3750	17.55	18.50	1.245	-	-	-0.18	0.125	0.156
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 8	ECl 5	650000	3750	20.50	21.50	1.259	50	1.000	0.07	0.160	0.201
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECl 5	633332	3499.98	15.13	16.50	1.371	-	-	0.04	0.102	0.140
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECl 5	633332	3499.98	15.13	16.50	1.371	-	-	0.18	0.125	0.171
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	633332	3499.98	15.13	16.50	1.371	-	-	0.02	0.191	0.262
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECl 5	633332	3499.98	15.13	16.50	1.371	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	ECl 5	633332	3499.98	15.12	16.50	1.374	-	-	0.17	0.103	0.142
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECl 5	633332	3499.98	15.12	16.50	1.374	-	-	-0.02	0.112	0.154
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECl 5	633332	3499.98	15.12	16.50	1.374	-	-	-0.13	0.198	0.272
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 7	ECl 5	633332	3499.98	15.12	16.50	1.374	-	-	-	n/a	n/a
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECl 5	633332	3499.98	18.70	19.50	1.202	50	1.000	0.210	0.252	0.210
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECl 5	650000	3750	15.02	16.50	1.406	-	-	0.15	0.094	0.132
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECl 5	650000	3750	15.02	16.50	1.406	-	-	-0.05	0.113	0.159
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	650000	3750	15.02	16.50	1.406	-	-	-0.14	0.214	0.301
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECl 5	650000	3750	15.02	16.50	1.406	-	-	-	n/a	n/a
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECl 5	650000	3750	18.68	19.50	1.208	50	1.000	0.06	0.234	0.283
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	ECl 5	650000	3750	15.00	16.50	1.413	-	-	-0.04	0.081	0.114
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECl 5	650000	3750	15.00	16.50	1.413	-	-	0.1	0.122	0.172
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECl 5	650000	3750	15.00	16.50	1.413	-	-	-0.1	0.190	0.268
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 7	ECl 5	650000	3750	15.00	16.50	1.413	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 9	ECl 5	633332	3499.98	14.75	16.00	1.334	-	-	0.08	0.042	0.056
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	633332	3499.98	14.75	16.00	1.334	-	-	0.06	0.560	0.747
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 9	ECl 5	633332	3499.98	14.75	16.00	1.334	-	-	0.04	0.085	0.113
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 9	ECl 5	633332	3499.98	14.75	16.00	1.334	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 9	ECl 5	633332	3499.98	14.73	16.00	1.340	-	-	-0.01	0.037	0.050
57	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 9	ECl 5	633332	3499.98	14.73	16.00	1.340	-	-	0.08	0.695	0.931
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 9	ECl 5	633332	3499.98	14.73	16.00	1.340	-	-	-0.05	0.089	0.119
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 9	ECl 5	633332	3499.98	14.73	16.00	1.340	-	-	-	n/a	n/a
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 9	ECl 5	633332	3499.98	18.28	19.00	1.180	50	1.000	-0.12	0.775	0.915
	FR1 n78	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 9	ECl 5	633332	3499.98	14.71	16.00	1.346	-	-	-0.01	0.521	0.701
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 9	ECl 5	650000	3750	14.68	16.00	1.355	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	650000	3750	14.68	16.00	1.355	-	-	-0.13	0.305	0.413
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 9	ECl 5	650000	3750	14.68	16.00	1.355	-	-	0.12	0.079	0.107
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 9	ECl 5	650000	3750	14.68	16.00	1.355	-	-	-	n/a	n/a



	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 9	ECl 5	\$50000	3750	17.65	19.00	1.365	50	1.000	0.04	0.275	0.375
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 9	ECl 5	\$50000	3750	14.66	16.00	1.361	-	-	-	n/a	n/a
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 9	ECl 5	\$50000	3750	14.66	16.00	1.361	-	-	-0.14	0.264	0.359
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 9	ECl 5	\$50000	3750	14.66	16.00	1.361	-	-	-0.19	0.076	0.103
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 9	ECl 5	\$50000	3750	14.66	16.00	1.361	-	-	-	n/a	n/a

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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 16+7(7)	Non-DBS	6	2437	19.36	21.00	1.459	99.48	1.005	0.17	0.239	0.350
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 16+7(7)	Non-DBS	6	2437	19.36	21.00	1.459	99.48	1.005	-0.09	0.337	0.494
58	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 16+7(7)	Non-DBS	6	2437	19.36	21.00	1.459	99.48	1.005	0.1	0.607	0.890
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 16+7(7)	Non-DBS	6	2437	19.36	21.00	1.459	99.48	1.005	-0.02	0.285	0.418
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 16+7(7)	Non-DBS	1	2412	19.05	20.00	1.245	99.48	1.005	-0.11	0.615	0.769
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 16+7(7)	DBS	6	2437	16.26	18.00	1.493	99.48	1.005	0.14	0.135	0.203
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 16+7(7)	DBS	6	2437	16.26	18.00	1.493	99.48	1.005	0.02	0.167	0.251
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 16+7(7)	DBS	6	2437	16.26	18.00	1.493	99.48	1.005	-0.07	0.286	0.429
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 16+7(7)	DBS	6	2437	16.26	18.00	1.493	99.48	1.005	0.17	0.149	0.224
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	Non-DBS&DBS	6	2437	18.35	20.00	1.462	99.48	1.005	0.17	0.204	0.300
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	Non-DBS&DBS	6	2437	18.35	20.00	1.462	99.48	1.005	-0.02	0.240	0.353
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	Non-DBS&DBS	6	2437	18.35	20.00	1.462	99.48	1.005	-0.13	0.509	0.748
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7	Non-DBS&DBS	6	2437	18.35	20.00	1.462	99.48	1.005	-0.18	0.084	0.123
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 16	Non-DBS&DBS	39	2441	15.18	16.00	1.208	76.83	1.302	0.13	0.066	0.104
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 16	Non-DBS&DBS	39	2441	15.18	16.00	1.208	76.83	1.302	0.02	0.102	0.160
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 16	Non-DBS&DBS	39	2441	15.18	16.00	1.208	76.83	1.302	0.05	0.009	0.014
59	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 16	Non-DBS&DBS	39	2441	15.18	16.00	1.208	76.83	1.302	-0.13	0.110	0.173
5000MHz																
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6+17(6)	Non-DBS	38	5190	15.63	16.50	1.223	94.08	1.063	0.06	0.340	0.442
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6+17(6)	Non-DBS	38	5190	15.63	16.50	1.223	94.08	1.063	0.04	0.256	0.333
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+17(6)	Non-DBS	38	5190	15.63	16.50	1.223	94.08	1.063	0.09	0.378	0.491
60	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6+17(6)	Non-DBS	38	5190	15.63	16.50	1.223	94.08	1.063	-0.09	0.509	0.662
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6+17(6)	DBS	38	5190	14.77	15.50	1.184	94.08	1.063	0.06	0.277	0.349
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6+17(6)	DBS	38	5190	14.77	15.50	1.184	94.08	1.063	0.04	0.208	0.262
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+17(6)	DBS	38	5190	14.77	15.50	1.184	94.08	1.063	0.09	0.308	0.388
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6+17(6)	DBS	38	5190	14.77	15.50	1.184	94.08	1.063	-0.09	0.380	0.478
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+17(6)	Non-DBS	155	5775	13.81	15.00	1.315	88.14	1.135	0.17	0.306	0.457
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+17(6)	Non-DBS	155	5775	13.81	15.00	1.315	88.14	1.135	-0.02	0.237	0.354
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+17(6)	Non-DBS	155	5775	13.81	15.00	1.315	88.14	1.135	-0.13	0.359	0.536
61	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+17(6)	Non-DBS	155	5775	13.81	15.00	1.315	88.14	1.135	-0.18	0.436	0.651
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+17(6)	DBS	155	5775	12.25	13.50	1.334	88.14	1.135	0.17	0.250	0.378
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+17(6)	DBS	155	5775	12.25	13.50	1.334	88.14	1.135	-0.02	0.173	0.262
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+17(6)	DBS	155	5775	12.25	13.50	1.334	88.14	1.135	-0.13	0.272	0.412
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+17(6)	DBS	155	5775	12.25	13.50	1.334	88.14	1.135	-0.18	0.342	0.518



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	23095	707.5	24.51	25.50	1.256	-	-	-0.12	0.187	0.235
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	23095	707.5	24.51	25.50	1.256	-	-	0.04	0.229	0.288
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	23095	707.5	24.51	25.50	1.256	-	-	-0.06	0.186	0.234
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 0	ECI 4	23095	707.5	23.42	24.50	1.282	-	-	-0.08	0.169	0.217
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 0	ECI 4	23095	707.5	23.42	24.50	1.282	-	-	0.1	0.190	0.244
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 4	23095	707.5	23.94	25.50	1.432	-	-	-0.15	0.246	0.352
62	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	23095	707.5	23.94	25.50	1.432	-	-	-0.13	0.267	0.382
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	23095	707.5	23.94	25.50	1.432	-	-	-0.11	0.118	0.169
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 1	ECI 4	23095	707.5	23.00	24.50	1.413	-	-	0.07	0.201	0.284
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 1	ECI 4	23095	707.5	23.00	24.50	1.413	-	-	0.05	0.254	0.359
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	23230	782	25.09	25.70	1.151	-	-	-0.15	0.131	0.151
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	23230	782	25.09	25.70	1.151	-	-	0.03	0.206	0.237
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 0	ECI 4	23230	782	24.00	24.70	1.175	-	-	-0.06	0.107	0.126
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 0	ECI 4	23230	782	24.00	24.70	1.175	-	-	-0.15	0.165	0.194
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 4	23230	782	24.38	25.50	1.294	-	-	0.1	0.325	0.421
63	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	23230	782	24.38	25.50	1.294	-	-	-0.05	0.420	0.544
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 1	ECI 4	23230	782	23.26	24.50	1.330	-	-	0.02	0.317	0.422
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 1	ECI 4	23230	782	23.26	24.50	1.330	-	-	0.03	0.386	0.514
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	ECI 4	141500	707.5	24.75	25.50	1.189	-	-	-0.15	0.102	0.121
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	ECI 4	141500	707.5	24.75	25.50	1.189	-	-	0.19	0.132	0.157
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 0	ECI 4	141500	707.5	24.48	25.50	1.265	-	-	-0.09	0.114	0.144
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 0	ECI 4	141500	707.5	24.48	25.50	1.265	-	-	-0.04	0.144	0.182
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 0	ECI 4	141500	707.5	24.48	25.50	1.265	-	-	-0.13	0.112	0.142
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	ECI 4	141500	707.5	24.15	25.50	1.365	-	-	-0.06	0.155	0.212
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 4	141500	707.5	24.15	25.50	1.365	-	-	0.01	0.199	0.272
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 1	ECI 4	141500	707.5	23.95	25.50	1.429	-	-	0.08	0.224	0.320
64	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 1	ECI 4	141500	707.5	23.95	25.50	1.429	-	-	-0.17	0.406	0.580
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 1	ECI 4	141500	707.5	23.95	25.50	1.429	-	-	0.05	0.035	0.050
835MHz																				
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	15mm	Ant 0	ECI 4	189	836.4	26.76	28.00	1.330	-	-	0.12	0.128	0.170
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 0	ECI 4	189	836.4	26.76	28.00	1.330	-	-	0.04	0.176	0.234
	GSM850	-	-	-	-	DTM Multi-slot class 9	Back	15mm	Ant 0	ECI 4	189	836.4	23.77	24.98	1.321	-	-	0.01	0.149	0.197
	GSM850	-	-	-	-	GPRS(4 Tx slots)	Front	15mm	Ant 1	ECI 4	189	836.4	26.24	27.50	1.337	-	-	-0.01	0.255	0.341
65	GSM850	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 1	ECI 4	189	836.4	26.24	27.50	1.337	-	-	0.09	0.409	0.547
	GSM850	-	-	-	-	DTM Multi-slot class 9	Back	15mm	Ant 1	ECI 4	189	836.4	23.19	24.48	1.346	-	-	0.07	0.364	0.490
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	ECI 4	4182	836.4	23.95	25.00	1.274	-	-	0	0.196	0.250
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	ECI 4	4182	836.4	23.95	25.00	1.274	-	-	-0.12	0.261	0.332
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	ECI 4	4182	836.4	23.10	24.50	1.380	-	-	0.15	0.306	0.422
66	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	ECI 4	4182	836.4	23.10	24.50	1.380	-	-	0.15	0.479	0.661
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 4	26865	831.5	25.05	25.70	1.161	-	-	-0.08	0.241	0.280
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	26865	831.5	25.05	25.70	1.161	-	-	-0.1	0.349	0.405
	LTE Band 26_Other PA	15M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 4	26865	831.5	23.96	25.00	1.271	-	-	-0.14	0.243	0.309
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 0	ECI 4	26865	831.5	23.97	24.70	1.183	-	-	-0.1	0.195	0.231
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 0	ECI 4	26865	831.5	23.97	24.70	1.183	-	-	0.06	0.228	0.270
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 4	26865	831.5	24.20	25.50	1.349	-	-	0.04	0.092	0.124
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	24.20	25.50	1.349	-	-	-0.18	0.124	0.167
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	24.20	25.50	1.349	-	-	0	0.119	0.161



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67	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	24.20	25.50	1.349	-	-	0.1	0.353	0.476
	LTE Band 26_Other PA	15M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	23.46	25.00	1.426	-	-	-0.05	0.285	0.406
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 1	ECI 4	26865	831.5	23.15	24.50	1.365	-	-	-0.03	0.078	0.106
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 1	ECI 4	26865	831.5	23.15	24.50	1.365	-	-	0.15	0.108	0.147
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	ECI 4	166300	831.5	25.35	25.70	1.084	-	-	0.04	0.195	0.211
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	ECI 4	166300	831.5	25.35	25.70	1.084	-	-	0.11	0.255	0.276
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 0	ECI 4	166300	831.5	25.03	25.70	1.167	-	-	-0.09	0.141	0.165
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 0	ECI 4	166300	831.5	25.03	25.70	1.167	-	-	0.18	0.193	0.225
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	ECI 4	166300	831.5	24.50	25.50	1.259	-	-	-0.12	0.374	0.471
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 4	166300	831.5	24.50	25.50	1.259	-	-	0.06	0.423	0.533
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 1	ECI 4	166300	831.5	24.17	25.50	1.358	-	-	0.13	0.409	0.556
68	FR1 n26	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 4	166300	831.5	24.17	25.50	1.358	-	-	-0.07	0.646	0.877
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 4	166300	831.5	24.17	25.50	1.358	-	-	0.17	0.151	0.205
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 4	166300	831.5	24.17	25.50	1.358	-	-	0.08	0.423	0.575
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	15mm	Ant 1	ECI 4	166300	831.5	23.23	24.50	1.340	-	-	0.15	0.336	0.450
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 4	1413	1732.6	23.98	25.00	1.265	-	-	-0.1	0.349	0.441
69	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 4	1413	1732.6	23.98	25.00	1.265	-	-	0.14	0.512	0.648
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 5	ECI 4	1413	1732.6	23.12	24.50	1.374	-	-	0.08	0.109	0.150
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 5	ECI 4	1413	1732.6	23.12	24.50	1.374	-	-	0.18	0.167	0.229
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	20175	1732.5	25.15	25.70	1.135	-	-	-0.04	0.492	0.558
70	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	25.15	25.70	1.135	-	-	0.1	0.691	0.784
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	23.14	24.00	1.219	-	-	0.15	0.272	0.332
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	20175	1732.5	24.08	24.70	1.153	-	-	-0.13	0.381	0.439
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	20175	1732.5	24.08	24.70	1.153	-	-	-0.14	0.600	0.692
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	20175	1732.5	24.08	25.00	1.236	-	-	0.14	0.262	0.324
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	20175	1732.5	24.08	25.00	1.236	-	-	0.01	0.280	0.346
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	20175	1732.5	23.95	25.00	1.274	-	-	0.16	0.270	0.344
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	20175	1732.5	22.95	24.00	1.274	-	-	0.1	0.260	0.331
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	20175	1732.5	22.95	24.00	1.274	-	-	0.07	0.270	0.344
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	20175	1732.5	23.01	24.20	1.315	-	-	-0.08	0.169	0.222
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	20175	1732.5	23.01	24.20	1.315	-	-	-0.07	0.245	0.322
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	20175	1732.5	22.98	24.20	1.324	-	-	0.18	0.171	0.226
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	20175	1732.5	22.98	24.20	1.324	-	-	0.11	0.246	0.326
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	20175	1732.5	22.98	24.20	1.324	-	-	-0.05	0.111	0.147
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	20175	1732.5	22.78	24.00	1.324	-	-	0.07	0.103	0.136
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	20175	1732.5	24.09	25.50	1.384	-	-	0.08	0.159	0.220
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	20175	1732.5	24.09	25.50	1.384	-	-	0.05	0.272	0.376
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	20175	1732.5	24.01	25.00	1.256	-	-	-0.15	0.184	0.231
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	20175	1732.5	23.05	24.50	1.396	-	-	-0.06	0.128	0.179
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	20175	1732.5	23.05	24.50	1.396	-	-	0.11	0.219	0.306
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	132322	1745	24.61	25.50	1.227	-	-	-0.18	0.425	0.522
71	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	132322	1745	24.61	25.50	1.227	-	-	0.06	0.637	0.782
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	132322	1745	23.21	24.00	1.199	-	-	0.09	0.322	0.386
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	132322	1745	23.59	24.50	1.233	-	-	-0.12	0.341	0.420
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	132322	1745	23.59	24.50	1.233	-	-	-0.14	0.502	0.619
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	132322	1745	23.64	24.00	1.086	-	-	-0.11	0.245	0.266
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	132322	1745	23.64	24.00	1.086	-	-	-0.12	0.257	0.279
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	132072	1720	23.57	24.00	1.104	-	-	-0.09	0.242	0.267
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	132572	1770	23.47	24.00	1.130	-	-	0.02	0.253	0.286
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	132322	1745	24.03	25.00	1.250	-	-	0	0.306	0.383
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	132322	1745	22.60	23.00	1.096	-	-	0.17	0.241	0.264
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	132322	1745	22.60	23.00	1.096	-	-	-0.18	0.253	0.277
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	132322	1745	22.18	23.00	1.208	-	-	-0.11	0.155	0.187
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	132322	1745	22.18	23.00	1.208	-	-	0.09	0.237	0.286



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	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	132322	1745	22.15	23.00	1.216	-	-	0.01	0.164	0.199
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	132322	1745	22.15	23.00	1.216	-	-	0.18	0.239	0.291
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	132322	1745	21.92	23.50	1.439	-	-	0.02	0.188	0.270
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	132322	1745	23.73	24.50	1.194	-	-	0.11	0.147	0.176
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	132322	1745	23.73	24.50	1.194	-	-	-0.08	0.265	0.316
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	132322	1745	23.58	25.00	1.387	-	-	-0.19	0.121	0.168
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	132322	1745	22.68	23.50	1.208	-	-	0.14	0.119	0.144
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	132322	1745	22.68	23.50	1.208	-	-	0.17	0.217	0.262
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 4	349000	1745	24.02	25.00	1.253	-	-	-0.03	0.326	0.409
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 4	349000	1745	24.02	25.00	1.253	-	-	-0.04	0.471	0.590
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	15mm	Ant 4	ECI 4	349000	1745	23.88	25.00	1.294	-	-	0.06	0.335	0.434
72	FR1 n66	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 4	ECI 4	349000	1745	23.88	25.00	1.294	-	-	0.1	0.479	0.620
	FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 4	ECI 4	349000	1745	23.23	24.50	1.340	-	-	-0.02	0.387	0.518
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	ECI 4	349000	1745	23.03	24.50	1.403	-	-	0.02	0.223	0.313
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 4	349000	1745	23.03	24.50	1.403	-	-	0.05	0.288	0.404
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 4	349000	1745	23.96	25.00	1.271	-	-	-0.1	0.294	0.374
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	15mm	Ant 2	ECI 4	349000	1745	22.74	24.50	1.500	-	-	0.06	0.230	0.345
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 2	ECI 4	349000	1745	22.74	24.50	1.500	-	-	0.07	0.265	0.397
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 5	ECI 4	349000	1745	21.83	23.00	1.309	-	-	0.18	0.145	0.190
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	15mm	Ant 5	ECI 4	349000	1745	21.83	23.00	1.309	-	-	0.07	0.220	0.288
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Back	15mm	Ant 5	ECI 4	349000	1745	22.34	23.50	1.306	-	-	0.16	0.191	0.249
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	15mm	Ant 5	ECI 4	349000	1745	21.80	23.00	1.318	-	-	-0.14	0.109	0.144
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 5	ECI 4	349000	1745	21.80	23.00	1.318	-	-	0.06	0.172	0.227
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	15mm	Ant 3	ECI 4	349000	1745	23.05	24.50	1.396	-	-	0.06	0.112	0.156
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	ECI 4	349000	1745	23.05	24.50	1.396	-	-	0.11	0.183	0.256
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	15mm	Ant 3	ECI 4	349000	1745	22.95	24.50	1.429	-	-	-0.18	0.126	0.180
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 3	ECI 4	349000	1745	22.95	24.50	1.429	-	-	0.14	0.201	0.287
	FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Back	15mm	Ant 3	ECI 4	349000	1745	23.72	25.50	1.507	-	-	0.12	0.275	0.414
1900MHz																				
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Front	15mm	Ant 4	ECI 4	661	1880	24.32	25.00	1.169	-	-	-0.03	0.080	0.094
73	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 4	ECI 4	661	1880	24.32	25.00	1.169	-	-	0.15	0.114	0.133
	GSM1900	-	-	-	-	DTM Multi-slot class 9	Back	15mm	Ant 4	ECI 4	661	1880	21.33	21.98	1.161	-	-	0.08	0.102	0.118
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Front	15mm	Ant 5	ECI 4	661	1880	24.13	25.00	1.222	-	-	-	n/a	n/a
	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Back	15mm	Ant 5	ECI 4	661	1880	24.13	25.00	1.222	-	-	0.14	0.054	0.066
	GSM1900	-	-	-	-	DTM Multi-slot class 9	Back	15mm	Ant 5	ECI 4	661	1880	21.13	21.98	1.216	-	-	0.01	0.042	0.051
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 4	9400	1880	24.06	25.00	1.242	-	-	0.03	0.202	0.251
74	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 4	9400	1880	24.06	25.00	1.242	-	-	-0.05	0.250	0.310
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 5	ECI 4	9400	1880	22.72	24.00	1.343	-	-	-0.15	0.014	0.019
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 5	ECI 4	9400	1880	22.72	24.00	1.343	-	-	-0.11	0.031	0.042
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	18900	1880	24.15	25.00	1.216	-	-	0.01	0.230	0.280
75	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	18900	1880	24.15	25.00	1.216	-	-	0.16	0.306	0.372
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	18900	1880	23.07	24.00	1.239	-	-	-0.1	0.211	0.261
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	18900	1880	23.15	24.00	1.216	-	-	-0.07	0.180	0.219
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	18900	1880	23.15	24.00	1.216	-	-	0.12	0.253	0.308
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	18900	1880	22.88	24.00	1.294	-	-	-0.11	0.164	0.212
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	18900	1880	22.88	24.00	1.294	-	-	-0.14	0.178	0.230
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	18900	1880	23.79	25.00	1.321	-	-	0.05	0.226	0.299
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	18900	1880	21.88	23.00	1.294	-	-	-0.08	0.153	0.198
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	18900	1880	21.88	23.00	1.294	-	-	-0.01	0.171	0.221
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	18900	1880	22.15	23.50	1.365	-	-	0.18	0.193	0.263
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	18900	1880	22.15	23.50	1.365	-	-	-0.15	0.250	0.341
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	18900	1880	22.15	23.50	1.365	-	-	-0.15	0.197	0.269
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	18900	1880	22.79	24.00	1.321	-	-	-0.15	0.154	0.203



	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	18900	1880	22.13	23.50	1.371	-	-	0.15	0.181	0.248
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	18900	1880	22.13	23.50	1.371	-	-	-0.19	0.237	0.325
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	18900	1880	23.27	24.50	1.327	-	-	-0.16	0.155	0.206
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	18900	1880	23.27	24.50	1.327	-	-	0.12	0.224	0.297
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	18900	1880	23.49	25.00	1.416	-	-	0.09	0.211	0.299
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	18900	1880	22.35	23.50	1.303	-	-	0.09	0.126	0.164
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	18900	1880	22.35	23.50	1.303	-	-	-0.12	0.178	0.232
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 4	376000	1880	23.96	25.00	1.271	-	-	0.12	0.238	0.302
76	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 4	376000	1880	23.96	25.00	1.271	-	-	0.01	0.346	0.440
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 4	ECI 4	376000	1880	23.65	25.00	1.365	-	-	0.01	0.229	0.312
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	ECI 4	376000	1880	23.65	25.00	1.365	-	-	0.09	0.314	0.428
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	ECI 4	376000	1880	23.00	24.50	1.413	-	-	-0.17	0.210	0.297
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 4	376000	1880	23.00	24.50	1.413	-	-	0.07	0.237	0.335
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 2	ECI 4	376000	1880	22.65	24.50	1.531	-	-	0.01	0.199	0.305
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	ECI 4	376000	1880	22.65	24.50	1.531	-	-	-0.07	0.216	0.331
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 5	ECI 4	376000	1880	22.58	24.00	1.387	-	-	-0.18	0.007	0.010
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 5	ECI 4	376000	1880	22.58	24.00	1.387	-	-	0.14	0.023	0.032
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 5	ECI 4	376000	1880	22.58	24.00	1.387	-	-	-0.1	0.017	0.024
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 5	ECI 4	376000	1880	22.56	24.00	1.393	-	-	0.11	0.004	0.006
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 5	ECI 4	376000	1880	22.56	24.00	1.393	-	-	-0.08	0.019	0.026
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 3	ECI 4	376000	1880	23.40	24.50	1.288	-	-	0.07	0.155	0.200
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	ECI 4	376000	1880	23.40	24.50	1.288	-	-	-0.16	0.239	0.308
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 3	ECI 4	376000	1880	22.99	24.50	1.416	-	-	-0.09	0.160	0.227
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 3	ECI 4	376000	1880	22.99	24.50	1.416	-	-	-0.18	0.235	0.333
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	21100	2535	25.26	25.70	1.107	-	-	0.12	0.381	0.422
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	21100	2535	25.26	25.70	1.107	-	-	0.11	0.726	0.803
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	20850	2510	25.22	25.70	1.117	-	-	0.02	0.506	0.565
77	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	21350	2560	25.16	25.70	1.132	-	-	-0.08	0.781	0.884
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	21350+21152	2560+2540.2	24.47	25.70	1.327	-	-	0.06	0.611	0.811
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	21350	2560	22.20	23.50	1.349	-	-	0.14	0.449	0.606
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 4	21100	2535	24.21	24.70	1.119	-	-	0.13	0.302	0.338
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 4	21100	2535	24.21	24.70	1.119	-	-	-0.11	0.583	0.653
	LTE Band 7	20M	QPSK	100	0	-	Front	15mm	Ant 4	ECI 4	21100	2535	24.21	24.70	1.119	-	-	-0.11	0.527	0.590
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 4	21100	2535	23.95	25.00	1.274	-	-	0.07	0.133	0.169
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	21100	2535	23.95	25.00	1.274	-	-	0.17	0.233	0.297
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	21100+20902	2535+2515.2	23.76	25.00	1.330	-	-	0.09	0.167	0.222
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 4	21100	2535	22.68	24.50	1.521	-	-	0.18	0.185	0.281
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 4	21100	2535	22.95	24.00	1.274	-	-	0.11	0.097	0.124
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 4	21100	2535	22.95	24.00	1.274	-	-	0.02	0.171	0.218
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 4	21100	2535	21.67	22.70	1.268	-	-	-0.07	0.145	0.184
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	21100	2535	21.67	22.70	1.268	-	-	-0.19	0.282	0.357
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	21100+20902	2535+2515.2	21.62	22.70	1.282	-	-	0.03	0.248	0.318
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 4	21100	2535	20.66	22.00	1.361	-	-	0.17	0.251	0.342
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 4	21100	2535	21.65	22.70	1.274	-	-	-0.14	0.146	0.186
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 4	21100	2535	21.65	22.70	1.274	-	-	-0.13	0.238	0.303
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 4	21100	2535	24.38	25.50	1.294	-	-	0.12	0.167	0.216
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	21100	2535	24.38	25.50	1.294	-	-	-0.19	0.315	0.408
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	21100+20902	2535+2515.2	23.51	25.50	1.581	-	-	0.09	0.235	0.372
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 4	21100	2535	24.20	24.50	1.072	-	-	0.03	0.203	0.218
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 4	21100	2535	23.35	24.50	1.303	-	-	-0.06	0.172	0.224
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 4	21100	2535	23.35	24.50	1.303	-	-	-0.06	0.312	0.407
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 4	38000	2595	25.05	25.70	1.161	62.9	1.006	-0.01	0.199	0.233
78	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	38000	2595	25.05	25.70	1.161	62.9	1.006	0.09	0.486	0.568
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 4	37901+38099	2585.1+2604.9	24.45	25.70	1.334	62.9	1.006	0.07	0.384	0.515



Table with columns for Band, Modulation, Power, Frequency, etc. Includes rows for LTE Band 38 and FR1 n7 with various test parameters and SAR values.



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	FR1 n7	50M	QPSK	1	1	DFT-15	Back	15mm	Ant 3	ECI 4	507000	2535	23.00	24.00	1.259	-	-	0.16	0.365	0.460
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	15mm	Ant 3	ECI 4	507000	2535	22.97	24.00	1.268	-	-	0.14	0.190	0.241
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	15mm	Ant 3	ECI 4	507000	2535	22.97	24.00	1.268	-	-	-0.11	0.399	0.506
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	ECI 4	519000	2595	24.75	25.70	1.245	-	-	-0.1	0.289	0.360
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 4	519000	2595	24.75	25.70	1.245	-	-	-0.15	0.650	0.809
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 4	ECI 4	519000	2595	24.50	25.70	1.318	-	-	0.07	0.265	0.349
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 4	ECI 4	519000	2595	24.50	25.70	1.318	-	-	-0.04	0.549	0.724
	FR1 n38	40M	QPSK	100	0	DFT-30	Back	15mm	Ant 4	ECI 4	519000	2595	23.45	24.70	1.334	-	-	0.15	0.441	0.588
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 2	ECI 4	519000	2595	23.44	25.00	1.432	-	-	0.08	0.177	0.253
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 2	ECI 4	519000	2595	23.44	25.00	1.432	-	-	0.09	0.355	0.508
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 2	ECI 4	519000	2595	23.02	25.00	1.578	-	-	0.02	0.158	0.249
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 2	ECI 4	519000	2595	23.02	25.00	1.578	-	-	0.16	0.313	0.494
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	ECI 4	519000	2595	20.83	22.20	1.371	-	-	-0.11	0.061	0.084
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	ECI 4	519000	2595	20.83	22.20	1.371	-	-	0.11	0.105	0.144
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 5	ECI 4	519000	2595	20.80	22.20	1.380	-	-	0.19	0.065	0.090
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 5	ECI 4	519000	2595	20.80	22.20	1.380	-	-	-0.12	0.110	0.152
	FR1 n38	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	ECI 4	519000	2595	23.80	25.00	1.318	-	-	-0.16	0.211	0.278
81	FR1 n38	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	ECI 4	519000	2595	23.80	25.00	1.318	-	-	-0.17	0.664	0.875
	FR1 n38	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 3	ECI 4	519000	2595	23.28	25.00	1.486	-	-	0.05	0.195	0.290
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 3	ECI 4	519000	2595	23.28	25.00	1.486	-	-	0.11	0.572	0.850
	FR1 n38	40M	QPSK	100	0	DFT-30	Back	15mm	Ant 3	ECI 4	519000	2595	22.90	24.00	1.288	-	-	-0.19	0.475	0.612
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	ECI 4	518598	2592.99	23.52	24.50	1.253	-	-	0.03	0.244	0.306
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 4	518598	2592.99	23.52	24.50	1.253	-	-	-0.05	0.450	0.564
82	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 4	518598	2592.99	26.80	27.50	1.175	50	1.000	0.14	0.483	0.567
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	ECI 4	518598	2592.99	23.20	24.50	1.349	-	-	-0.13	0.202	0.272
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	ECI 4	518598	2592.99	23.20	24.50	1.349	-	-	0.04	0.409	0.552
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 2	ECI 4	518598	2592.99	22.25	23.50	1.334	-	-	0.19	0.127	0.169
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 2	ECI 4	518598	2592.99	22.25	23.50	1.334	-	-	0.11	0.224	0.299
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 2	ECI 4	518598	2592.99	25.45	26.50	1.274	50	1.000	-0.16	0.251	0.320
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	ECI 4	518598	2592.99	22.17	23.50	1.358	-	-	0.05	0.120	0.163
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	ECI 4	518598	2592.99	22.17	23.50	1.358	-	-	-0.15	0.213	0.289
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	ECI 4	518598	2592.99	20.15	21.00	1.216	-	-	0.1	0.050	0.061
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	ECI 4	518598	2592.99	20.15	21.00	1.216	-	-	0.08	0.084	0.102
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	ECI 4	518598	2592.99	20.13	21.00	1.222	-	-	0.04	0.061	0.075
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	ECI 4	518598	2592.99	20.13	21.00	1.222	-	-	-0.08	0.099	0.121
	FR1 n41 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	ECI 4	518598	2592.99	23.45	24.00	1.135	50	1.000	-0.09	0.097	0.110
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	ECI 4	518598	2592.99	22.29	23.50	1.321	-	-	0.04	0.173	0.229
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	ECI 4	518598	2592.99	22.29	23.50	1.321	-	-	0.11	0.412	0.544
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	ECI 4	518598	2592.99	22.26	23.50	1.330	-	-	-0.04	0.143	0.190
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	ECI 4	518598	2592.99	22.26	23.50	1.330	-	-	-0.01	0.423	0.563
	FR1 n41 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	ECI 4	518598	2592.99	25.88	26.50	1.153	50	1.000	0.06	0.489	0.564
3000MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 6	ECI 4	42590	3500	25.35	25.70	1.084	62.9	1.006	0.06	0.195	0.213
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	42590	3500	25.35	25.70	1.084	62.9	1.006	0.16	0.412	0.449
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 6	ECI 4	42590	3500	24.35	24.70	1.084	62.9	1.006	0.11	0.153	0.167
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 6	ECI 4	42590	3500	24.35	24.70	1.084	62.9	1.006	-0.17	0.327	0.357
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 8	ECI 4	42590	3500	22.50	24.00	1.413	62.9	1.006	-0.16	0.153	0.217
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 8	ECI 4	42590	3500	22.50	24.00	1.413	62.9	1.006	-0.11	0.178	0.253
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 8	ECI 4	42590	3500	21.46	23.00	1.426	62.9	1.006	0.1	0.124	0.178
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 8	ECI 4	42590	3500	21.46	23.00	1.426	62.9	1.006	0.04	0.139	0.199
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 7	ECI 4	42590	3500	18.90	20.00	1.288	62.9	1.006	-0.15	0.188	0.244
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	42590	3500	18.90	20.00	1.288	62.9	1.006	0	0.230	0.298
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 7	ECI 4	42590	3500	18.88	20.00	1.294	62.9	1.006	0.11	0.184	0.240
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	42590	3500	18.88	20.00	1.294	62.9	1.006	0.13	0.225	0.293
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 9	ECI 4	42590	3500	21.85	22.50	1.161	62.9	1.006	0.14	0.027	0.031
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	42590	3500	21.85	22.50	1.161	62.9	1.006	0.08	0.643	0.751



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	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	42190	3460	21.83	22.50	1.167	62.9	1.006	0.19	0.572	0.672
83	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	42990	3540	21.58	22.50	1.236	62.9	1.006	-0.02	0.751	0.934
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 9	ECI 4	42590	3500	20.80	21.50	1.175	62.9	1.006	0.19	0.030	0.035
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 9	ECI 4	42590	3500	20.80	21.50	1.175	62.9	1.006	-0.05	0.481	0.569
	LTE Band 42	20M	QPSK	100	0	-	Back	15mm	Ant 9	ECI 4	42590	3500	20.75	21.50	1.189	62.9	1.006	-0.07	0.468	0.560
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 6	ECI 4	55830	3609	24.56	25.20	1.159	62.9	1.006	-0.16	0.158	0.184
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 6	ECI 4	55830	3609	24.56	25.20	1.159	62.9	1.006	-0.03	0.293	0.342
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 6	ECI 4	55830	3609	23.42	24.20	1.197	62.9	1.006	0.02	0.122	0.147
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 6	ECI 4	55830	3609	23.42	24.20	1.197	62.9	1.006	-0.16	0.232	0.279
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 8	ECI 4	55830	3609	21.50	23.00	1.413	62.9	1.006	0.03	0.111	0.158
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 8	ECI 4	55830	3609	21.50	23.00	1.413	62.9	1.006	-0.06	0.166	0.236
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 8	ECI 4	55830	3609	20.43	22.00	1.435	62.9	1.006	0.11	0.087	0.126
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 8	ECI 4	55830	3609	20.43	22.00	1.435	62.9	1.006	0.01	0.138	0.199
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 7	ECI 4	55830	3609	19.37	21.00	1.455	62.9	1.006	0.03	0.145	0.212
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 4	55830	3609	19.37	21.00	1.455	62.9	1.006	-0.03	0.194	0.284
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 7	ECI 4	55830	3609	19.35	21.00	1.462	62.9	1.006	0.04	0.145	0.213
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 4	55830	3609	19.35	21.00	1.462	62.9	1.006	-0.02	0.187	0.275
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 9	ECI 4	55830	3609	20.78	22.00	1.324	62.9	1.006	0.04	0.049	0.065
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	55830	3609	20.78	22.00	1.324	62.9	1.006	0.17	0.505	0.673
84	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	55340	3560	20.63	22.00	1.371	62.9	1.006	0.04	0.683	0.942
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	56150	3641	20.68	22.00	1.355	62.9	1.006	-0.18	0.460	0.627
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 9	ECI 4	56640	3690	20.71	22.00	1.346	62.9	1.006	-0.05	0.419	0.567
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 9	ECI 4	55830	3609	19.75	21.00	1.334	62.9	1.006	-0.06	0.036	0.048
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 9	ECI 4	55830	3609	19.75	21.00	1.334	62.9	1.006	0	0.422	0.566
	LTE Band 48	20M	QPSK	100	0	-	Back	15mm	Ant 9	ECI 4	55830	3609	19.68	21.00	1.355	62.9	1.006	-0.12	0.390	0.532
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	ECI 4	641666	3624.99	24.35	25.20	1.216	-	-	0.18	0.289	0.351
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	641666	3624.99	24.35	25.20	1.216	-	-	-0.13	0.539	0.656
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 6	ECI 4	641666	3624.99	24.24	25.20	1.247	-	-	0.03	0.279	0.348
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 6	ECI 4	641666	3624.99	24.24	25.20	1.247	-	-	-0.17	0.520	0.649
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	ECI 4	641666	3624.99	21.35	23.00	1.462	-	-	0.01	0.202	0.295
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	641666	3624.99	21.35	23.00	1.462	-	-	0.06	0.264	0.386
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 8	ECI 4	641666	3624.99	21.28	23.00	1.486	-	-	-0.13	0.201	0.299
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 8	ECI 4	641666	3624.99	21.28	23.00	1.486	-	-	0	0.265	0.394
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 4	641666	3624.99	19.08	20.50	1.387	-	-	0.07	0.175	0.243
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	641666	3624.99	19.08	20.50	1.387	-	-	0.04	0.157	0.217
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 7	ECI 4	641666	3624.99	19.05	20.50	1.396	-	-	0.14	0.176	0.245
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 7	ECI 4	641666	3624.99	19.05	20.50	1.396	-	-	0.04	0.155	0.217
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	15mm	Ant 9	ECI 4	641666	3624.99	20.15	21.50	1.365	-	-	-0.05	0.035	0.048
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	641666	3624.99	20.15	21.50	1.365	-	-	0.14	0.704	0.961
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	638000	3570	20.13	21.50	1.371	-	-	0.09	0.685	0.939
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	645332	3679.98	20.11	21.50	1.377	-	-	0.01	0.690	0.950
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	15mm	Ant 9	ECI 4	641666	3624.99	20.11	21.50	1.377	-	-	0.13	0.032	0.044
85	FR1 n48	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 9	ECI 4	641666	3624.99	20.11	21.50	1.377	-	-	0.16	0.711	0.979
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 9	ECI 4	638000	3570	20.06	21.50	1.393	-	-	0.03	0.694	0.967
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	15mm	Ant 9	ECI 4	645332	3679.98	20.09	21.50	1.384	-	-	0.07	0.702	0.971
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	15mm	Ant 9	ECI 4	641666	3624.99	19.50	21.00	1.413	-	-	-0.14	0.671	0.948
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	ECI 4	633332	3499.98	23.22	24.00	1.197	-	-	-0.08	0.212	0.254
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	633332	3499.98	23.22	24.00	1.197	-	-	0.12	0.427	0.511
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	ECI 4	633332	3499.98	23.16	24.00	1.213	-	-	-0.09	0.233	0.283
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	ECI 4	633332	3499.98	23.16	24.00	1.213	-	-	0.08	0.458	0.556
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	ECI 4	633332	3499.98	26.48	27.00	1.127	50	1.000	-0.1	0.521	0.587
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	ECI 4	656000	3840	23.20	24.00	1.202	-	-	0.17	0.237	0.285
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	656000	3840	23.20	24.00	1.202	-	-	-0.12	0.333	0.400
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	656000	3840	26.53	27.00	1.114	50	1.000	0.06	0.363	0.404
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	ECI 4	656000	3840	23.13	24.00	1.222	-	-	-0.08	0.214	0.261
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	ECI 4	656000	3840	23.13	24.00	1.222	-	-	-0.09	0.320	0.391



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	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	ECI 4	633332	3499.98	20.35	22.00	1.462	-	-	0.15	0.180	0.263
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	633332	3499.98	20.35	22.00	1.462	-	-	-0.14	0.196	0.287
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	633332	3499.98	23.75	25.00	1.334	50	1.000	-0.1	0.214	0.285
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	ECI 4	633332	3499.98	20.23	22.00	1.503	-	-	0.19	0.175	0.263
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	ECI 4	633332	3499.98	20.23	22.00	1.503	-	-	0.19	0.185	0.278
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	ECI 4	656000	3840	20.42	22.00	1.439	-	-	0.14	0.135	0.194
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	656000	3840	20.42	22.00	1.439	-	-	-0.01	0.315	0.453
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	ECI 4	656000	3840	20.35	22.00	1.462	-	-	-0.1	0.125	0.183
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	ECI 4	656000	3840	20.35	22.00	1.462	-	-	0.05	0.353	0.516
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	ECI 4	656000	3840	23.53	25.00	1.403	50	1.000	-0.16	0.396	0.556
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 4	633332	3499.98	17.98	19.00	1.265	-	-	-0.05	0.151	0.191
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	633332	3499.98	17.98	19.00	1.265	-	-	-0.08	0.157	0.199
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 7	ECI 4	633332	3499.98	17.95	19.00	1.274	-	-	0.17	0.160	0.204
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 4	633332	3499.98	17.95	19.00	1.274	-	-	-0.1	0.177	0.225
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 4	633332	3499.98	21.30	22.00	1.175	50	1.000	0.14	0.189	0.222
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 4	656000	3840	18.10	19.00	1.230	-	-	-0.05	0.118	0.145
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	656000	3840	18.10	19.00	1.230	-	-	0.19	0.141	0.173
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	656000	3840	21.38	22.00	1.153	50	1.000	-0.02	0.155	0.179
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 7	ECI 4	656000	3840	18.08	19.00	1.236	-	-	-0.04	0.098	0.121
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 4	656000	3840	18.08	19.00	1.236	-	-	0.05	0.110	0.136
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 9	ECI 4	633332	3499.98	18.63	20.00	1.371	-	-	0.05	0.045	0.062
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	18.63	20.00	1.371	-	-	-0.08	0.646	0.885
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 9	ECI 4	633332	3499.98	18.60	20.00	1.380	-	-	0.06	0.046	0.063
86	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	18.60	20.00	1.380	-	-	0.13	0.698	0.964
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	22.05	23.00	1.245	50	1.000	-0.07	0.703	0.875
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	18.53	20.00	1.403	-	-	0.11	0.630	0.884
	FR1 n77	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 9	ECI 4	656000	3840	18.43	20.00	1.435	-	-	-0.01	0.034	0.049
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	656000	3840	18.43	20.00	1.435	-	-	0.17	0.347	0.499
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	656000	3840	21.88	23.00	1.294	50	1.000	-0.18	0.378	0.490
	FR1 n77	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 9	ECI 4	656000	3840	18.40	20.00	1.445	-	-	-0.13	0.041	0.059
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 9	ECI 4	656000	3840	18.40	20.00	1.445	-	-	0.08	0.300	0.434
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	ECI 4	633332	3499.98	23.70	24.50	1.202	-	-	0.07	0.213	0.256
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	633332	3499.98	23.70	24.50	1.202	-	-	-0.05	0.430	0.517
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	ECI 4	633332	3499.98	23.68	24.50	1.208	-	-	-0.11	0.247	0.298
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	ECI 4	633332	3499.98	23.68	24.50	1.208	-	-	-0.18	0.462	0.558
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	ECI 4	633332	3499.98	27.13	27.50	1.089	50	1.000	-0.13	0.504	0.549
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 6	ECI 4	650000	3750	23.65	24.50	1.216	-	-	-0.09	0.205	0.249
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	650000	3750	23.65	24.50	1.216	-	-	-0.09	0.348	0.423
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 6	ECI 4	650000	3750	27.11	27.50	1.094	50	1.000	0.01	0.369	0.404
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 6	ECI 4	650000	3750	23.63	24.50	1.222	-	-	-0.05	0.223	0.272
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 6	ECI 4	650000	3750	23.63	24.50	1.222	-	-	0.11	0.334	0.408
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	ECI 4	633332	3499.98	24.10	25.00	1.230	-	-	0.04	0.184	0.226
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	633332	3499.98	24.10	25.00	1.230	-	-	-0.1	0.204	0.251
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	633332	3499.98	25.45	26.50	1.274	50	1.000	-0.17	0.150	0.191
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	ECI 4	633332	3499.98	24.06	25.00	1.242	-	-	0.17	0.170	0.211
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	ECI 4	633332	3499.98	24.06	25.00	1.242	-	-	-0.11	0.195	0.242
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 8	ECI 4	650000	3750	24.05	25.00	1.245	-	-	0.04	0.145	0.180
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 8	ECI 4	650000	3750	24.05	25.00	1.245	-	-	0.16	0.222	0.276
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 8	ECI 4	650000	3750	24.03	25.00	1.250	-	-	-0.07	0.142	0.178
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	ECI 4	650000	3750	24.03	25.00	1.250	-	-	-0.07	0.265	0.331
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 8	ECI 4	650000	3750	25.45	26.50	1.274	50	1.000	-0.15	0.190	0.242
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 4	633332	3499.98	17.12	18.50	1.374	-	-	-0.01	0.098	0.135
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	633332	3499.98	17.12	18.50	1.374	-	-	0.11	0.114	0.157
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 7	ECI 4	633332	3499.98	17.10	18.50	1.380	-	-	0.16	0.111	0.153
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 4	633332	3499.98	17.10	18.50	1.380	-	-	0.08	0.125	0.173
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 4	633332	3499.98	20.71	21.50	1.199	50	1.000	-0.08	0.141	0.169



	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 4	650000	3750	17.02	18.50	1.406	-	-	0.03	0.105	0.148
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	650000	3750	17.02	18.50	1.406	-	-	0.04	0.134	0.188
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 4	650000	3750	20.67	21.50	1.211	50	1.000	-0.12	0.146	0.177
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 7	ECI 4	650000	3750	17.00	18.50	1.413	-	-	-0.07	0.093	0.131
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 4	650000	3750	17.00	18.50	1.413	-	-	-0.1	0.118	0.167
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 9	ECI 4	633332	3499.98	19.22	20.50	1.343	-	-	0.07	0.020	0.027
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	19.22	20.50	1.343	-	-	-0.17	0.687	0.922
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 9	ECI 4	633332	3499.98	19.20	20.50	1.349	-	-	0.17	0.032	0.043
87	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	19.20	20.50	1.349	-	-	0.15	0.763	1.029
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	22.76	23.50	1.186	50	1.000	0.19	0.792	0.939
	FR1 n78	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 9	ECI 4	633332	3499.98	19.17	20.50	1.358	-	-	0.05	0.662	0.899
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 9	ECI 4	650000	3750	19.18	20.50	1.355	-	-	-0.13	0.031	0.042
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	650000	3750	19.18	20.50	1.355	-	-	0.1	0.477	0.647
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 9	ECI 4	650000	3750	22.15	23.50	1.365	50	1.000	-0.02	0.435	0.594
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 9	ECI 4	650000	3750	19.16	20.50	1.361	-	-	-0.01	0.049	0.067
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 9	ECI 4	650000	3750	19.16	20.50	1.361	-	-	0.08	0.441	0.600

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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 16+7(7)	Standalone	6	2437	19.36	21.00	1.459	99.48	1.005	-0.02	0.141	0.207
88	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 16+7(7)	Standalone	6	2437	19.36	21.00	1.459	99.48	1.005	-0.15	0.213	0.312
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7	Standalone	6	2437	19.36	21.00	1.459	99.48	1.005	0.03	0.124	0.182
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7	Standalone	6	2437	19.36	21.00	1.459	99.48	1.005	0.04	0.154	0.226
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 16	Non-DBS&DBS	39	2441	15.18	16.00	1.208	76.83	1.302	0.05	0.011	0.017
89	Bluetooth	DH5 1Mbps	Back	15mm	Ant 16	Non-DBS&DBS	39	2441	15.18	16.00	1.208	76.83	1.302	0.16	0.054	0.085
5000MHz																
	WLAN5.2GHz	802.11a 6Mbps	Front	15mm	Ant 6+17(17)	Standalone	48	5240	17.63	18.50	1.221	97.65	1.024	0.05	0.179	0.224
90	WLAN5.2GHz	802.11a 6Mbps	Back	15mm	Ant 6+17(17)	Standalone	48	5240	17.63	18.50	1.221	97.65	1.024	-0.09	0.262	0.328
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6+17(6)	Non-DBS&DBS	58	5290	13.21	14.00	1.200	88.14	1.135	-0.07	0.078	0.106
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+17(6)	Non-DBS&DBS	58	5290	13.21	14.00	1.200	88.14	1.135	-0.15	0.104	0.142
	WLAN5.5GHz	802.11ax-HE80 MCS0	Front	15mm	Ant 6+17	Standalone	122	5610	20.64	21.50	1.219	86.78	1.152	-0.03	0.131	0.184
91	WLAN5.5GHz	802.11ax-HE80 MCS0	Back	15mm	Ant 6+17	Standalone	122	5610	20.64	21.50	1.219	86.78	1.152	-0.17	0.285	0.400
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Front	15mm	Ant 6+17(6)	Non-DBS&DBS	114	5570	12.04	13.50	1.399	94.38	1.060	0.03	0.045	0.067
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 6+17(6)	Non-DBS&DBS	114	5570	12.04	13.50	1.399	94.38	1.060	0.04	0.093	0.138
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 6+17(6)	Standalone	149	5745	17.84	19.00	1.305	97.65	1.024	-0.07	0.226	0.302
92	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 6+17(6)	Standalone	149	5745	17.84	19.00	1.305	97.65	1.024	0.07	0.391	0.523
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6+17(6)	Non-DBS&DBS	155	5775	14.20	15.50	1.349	88.14	1.135	-0.07	0.117	0.179
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+17(6)	Non-DBS&DBS	155	5775	14.20	15.50	1.349	88.14	1.135	-0.1	0.153	0.234



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
750MHz																				
93	LTE Band 13	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECl 4	23230	782	24.38	25.50	1.294	-	-	0.14	1.300	1.682
	LTE Band 13	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	ECl 4	23230	782	23.26	24.50	1.330	-	-	-0.08	1.010	1.344
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	ECl 4	141500	707.5	24.15	25.50	1.365	-	-	0.05	1.220	1.665
94	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	0mm	Ant 1	ECl 4	141500	707.5	23.95	25.50	1.429	-	-	-0.05	1.250	1.786
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	0mm	Ant 1	ECl 4	141500	707.5	23.95	25.50	1.429	-	-	0.11	1.140	1.629
835MHz																				
95	GSM850	-	-	-	-	GPRS(4 Tx slots)	Left Side	0mm	Ant 1	ECl 4	189	836.4	26.24	27.50	1.337	-	-	-0.08	0.945	1.263
	GSM850	-	-	-	-	DTM Multi-slot class 9	Left Side	0mm	Ant 1	ECl 4	189	836.4	23.19	24.48	1.346	-	-	0.09	0.906	1.219
96	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	ECl 3	4182	836.4	22.23	23.50	1.340	-	-	-0.09	0.785	1.052
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	ECl 4	4182	836.4	23.10	24.50	1.380	-	-	0.04	0.613	0.846
	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECl 3	26865	831.5	23.20	24.50	1.349	-	-	0	0.985	1.329
97	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECl 3	26865	831.5	23.20	24.50	1.349	-	-	0.14	1.620	2.185
	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECl 3	26865	831.5	23.20	24.50	1.349	-	-	0.14	1.450	1.956
	LTE Band 26_Other PA	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECl 3	26865	831.5	22.41	24.00	1.442	-	-	0.05	1.500	2.163
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECl 4	26865	831.5	24.20	25.50	1.349	-	-	0.18	0.415	0.560
	LTE Band 26	15M	QPSK	36	0	-	Left Side	0mm	Ant 1	ECl 3	26865	831.5	23.15	24.50	1.365	-	-	-0.02	0.780	1.064
	LTE Band 26	15M	QPSK	75	0	-	Left Side	0mm	Ant 1	ECl 3	26865	831.5	23.06	24.50	1.393	-	-	0.05	0.765	1.066
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 1	ECl 4	166300	831.5	24.50	25.50	1.259	-	-	-0.01	1.170	1.473
98	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 1	ECl 4	166300	831.5	24.17	25.50	1.358	-	-	-0.09	1.390	1.888
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECl 3	1413	1732.6	22.57	23.50	1.239	-	-	0.16	1.850	2.292
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECl 3	1312	1712.4	22.53	23.50	1.250	-	-	-0.03	1.860	2.325
99	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECl 3	1513	1752.6	22.54	23.50	1.247	-	-	0.05	1.940	2.420
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 4	ECl 4	1513	1752.6	23.98	25.00	1.265	-	-	-0.18	1.250	1.581
100	LTE Band 4	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	20175	1732.5	22.64	23.20	1.138	-	-	0.15	1.910	2.173
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	20175	1732.5	20.56	21.50	1.242	-	-	-0.05	1.700	2.111
	LTE Band 4	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECl 4	20175	1732.5	25.15	25.70	1.135	-	-	0.19	1.520	1.725
	LTE Band 4	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECl 3	20175	1732.5	22.54	23.20	1.164	-	-	-0.05	1.810	2.107
	LTE Band 4	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECl 3	20175	1732.5	22.51	23.20	1.172	-	-	0.11	1.720	2.016
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECl 3	132322	1745	22.08	23.00	1.236	-	-	-0.1	1.580	1.953
101	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	132322	1745	22.08	23.00	1.236	-	-	0.07	1.780	2.200
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	132072	1720	22.03	23.00	1.250	-	-	0.06	1.730	2.163
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	132572	1770	22.00	23.00	1.259	-	-	-0.14	1.710	2.153
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	132322	1745	20.64	21.50	1.219	-	-	0.14	1.720	2.097
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECl 4	132322	1745	24.61	25.50	1.227	-	-	0.02	1.400	1.718
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECl 3	132322	1745	22.03	23.00	1.250	-	-	0.08	1.550	1.938
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECl 3	132322	1745	22.03	23.00	1.250	-	-	-0.03	1.720	2.150
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECl 3	132072	1720	22.00	23.00	1.259	-	-	-0.16	1.580	1.989
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECl 3	132572	1770	21.97	23.00	1.268	-	-	-0.08	1.650	2.092
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECl 3	132322	1745	22.00	23.00	1.259	-	-	0.06	1.670	2.102
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECl 3	349000	1745	23.05	24.00	1.245	-	-	-0.15	1.800	2.240
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 4	ECl 4	349000	1745	24.02	25.00	1.253	-	-	0.03	1.060	1.328
102	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 4	ECl 3	349000	1745	23.02	24.00	1.253	-	-	0.01	1.880	2.356
	FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 4	ECl 3	349000	1745	22.08	23.50	1.387	-	-	0.15	1.670	2.316
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 4	ECl 4	349000	1745	23.88	25.00	1.294	-	-	-0.02	1.120	1.449
	FR1 n66	40M	QPSK	216	0	DFT-15	Top Side	0mm	Ant 4	ECl 3	349000	1745	22.78	24.00	1.324	-	-	0.05	1.670	2.212
	FR1 n66	40M	QPSK	216	0	DFT-15	Top Side	5mm	Ant 4	ECl 4	349000	1745	22.78	24.00	1.324	-	-	0.11	1.010	1.338
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 5	ECl 4	349000	1745	21.83	23.00	1.309	-	-	0.06	1.450	1.898
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	0mm	Ant 5	ECl 4	349000	1745	21.80	23.00	1.318	-	-	0.1	1.510	1.991
	FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Right Side	0mm	Ant 5	ECl 4	349000	1745	22.27	23.50	1.327	-	-	0.16	1.210	1.606



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	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 3	ECl 3	349000	1745	19.07	20.50	1.390	-	-	0.07	0.960	1.334
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 3	ECl 4	349000	1745	23.88	25.50	1.452	-	-	0.11	1.210	1.757
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 3	ECl 3	349000	1745	19.05	20.50	1.396	-	-	-0.18	1.000	1.396
	FR1 n66_Other PA	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 3	ECl 3	349000	1745	19.70	21.50	1.514	-	-	0.03	1.310	1.983
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 3	ECl 4	349000	1745	23.72	25.50	1.507	-	-	-0.15	1.300	1.959
1900MHz																				
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 5	ECl 4	18900	1880	22.15	23.50	1.365	-	-	-0.06	1.270	1.733
103	LTE Band 2	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECl 4	18900	1880	22.15	23.50	1.365	-	-	-0.08	1.350	1.842
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECl 4	18900	1880	22.79	24.00	1.321	-	-	0	1.310	1.731
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 5	ECl 4	18900	1880	22.13	23.50	1.371	-	-	-0.17	1.200	1.645
	LTE Band 2	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	ECl 4	18900	1880	22.13	23.50	1.371	-	-	0.15	1.320	1.810
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 5	ECl 4	376000	1880	22.58	24.00	1.387	-	-	-0.06	1.500	2.080
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 5	ECl 4	376000	1880	22.58	24.00	1.387	-	-	-0.07	1.510	2.094
104	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 5	ECl 4	372000	1860	22.43	24.00	1.435	-	-	0.15	1.480	2.125
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 5	ECl 4	380000	1900	22.56	24.00	1.393	-	-	0.07	1.510	2.104
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 5	ECl 4	376000	1880	22.56	24.00	1.393	-	-	-0.03	1.440	2.006
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 5	ECl 4	372000	1860	22.35	24.00	1.462	-	-	0.06	1.450	2.120
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Side	0mm	Ant 5	ECl 4	380000	1900	22.53	24.00	1.403	-	-	0.11	1.440	2.020
	FR1 n2	20M	QPSK	100	0	DFT-15	Right Side	0mm	Ant 5	ECl 4	376000	1880	22.31	24.00	1.476	-	-	0.14	1.420	2.096
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 4	ECl 3	21100	2535	20.70	21.20	1.122	-	-	-0.15	1.210	1.358
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECl 3	21100	2535	20.70	21.20	1.122	-	-	-0.19	1.370	1.537
105	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	21100	2535	20.70	21.20	1.122	-	-	-0.06	1.940	2.177
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	21100+20902	2535+2515.2	20.05	21.20	1.303	-	-	0.05	1.660	2.163
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	21100	2535	17.65	19.00	1.365	-	-	-0.12	1.520	2.074
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECl 4	21100	2535	25.26	25.70	1.107	-	-	0.14	0.778	0.861
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECl 4	21100	2535	25.26	25.70	1.107	-	-	-0.01	1.800	1.992
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECl 4	21100	2535	25.26	25.70	1.107	-	-	-0.18	1.340	1.483
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 4	ECl 3	21100	2535	20.67	21.20	1.130	-	-	0.14	1.100	1.243
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECl 3	21100	2535	20.67	21.20	1.130	-	-	0.12	1.180	1.333
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECl 3	21100	2535	20.67	21.20	1.130	-	-	0.16	1.880	2.124
	LTE Band 7	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECl 3	21100	2535	20.65	21.20	1.135	-	-	0.05	1.750	1.986
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECl 3	21100	2535	17.72	19.00	1.343	-	-	0.12	0.965	1.296
	LTE Band 7_UL CA	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECl 3	21100+20902	2535+2515.2	17.03	19.00	1.574	-	-	0.06	0.801	1.261
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECl 3	21100	2535	17.65	18.00	1.084	-	-	-0.14	0.812	0.880
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 3	ECl 4	21100	2535	24.38	25.50	1.294	-	-	-0.12	1.460	1.890
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECl 3	21100	2535	17.70	19.00	1.349	-	-	0.07	0.923	1.245
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECl 3	38000	2595	21.50	22.20	1.175	62.9	1.006	0.11	1.040	1.229
106	LTE Band 38	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	38000	2595	21.50	22.20	1.175	62.9	1.006	-0.06	1.200	1.418
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECl 3	37901+38099	2585.1+2604.9	21.14	22.20	1.276	62.9	1.006	0.16	1.030	1.323
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECl 3	38000	2595	17.16	18.50	1.361	62.9	1.006	0.01	0.733	1.004
	LTE Band 38	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECl 4	38000	2595	25.05	25.70	1.161	62.9	1.006	0.07	0.957	1.118
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECl 3	38000	2595	21.48	22.20	1.180	62.9	1.006	0.02	1.010	1.199
	LTE Band 38	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECl 3	38000	2595	21.48	22.20	1.180	62.9	1.006	0.01	1.010	1.199
	LTE Band 38	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECl 3	38000	2595	19.01	20.00	1.256	62.9	1.006	-0.14	0.871	1.101
	LTE Band 38	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECl 3	38000	2595	19.01	20.00	1.256	62.9	1.006	-0.04	0.880	1.112
	LTE Band 38_UL CA	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECl 3	37901+38099	2585.1+2604.9	18.59	20.00	1.384	62.9	1.006	0.06	0.732	1.019
	LTE Band 38_Other PA	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECl 3	38000	2595	17.59	18.50	1.233	62.9	1.006	-0.12	0.644	0.799
	LTE Band 38	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	ECl 4	38000	2595	24.05	25.00	1.245	62.9	1.006	0.11	1.050	1.315
	LTE Band 38	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECl 3	38000	2595	19.00	20.00	1.259	62.9	1.006	0.08	0.870	1.102
	LTE Band 38	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	ECl 3	38000	2595	19.00	20.00	1.259	62.9	1.006	0	0.861	1.090
107	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECl 3	40185	2549.5	19.33	20.50	1.309	62.9	1.006	-0.19	1.150	1.515
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECl 3	40185	2549.5	19.33	20.50	1.309	62.9	1.006	-0.02	0.542	0.714
	LTE Band 41_Other PA	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECl 3	40185	2549.5	16.75	18.00	1.334	62.9	1.006	0.06	0.455	0.610
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 3	ECl 4	40185	2549.5	24.38	25.50	1.294	62.9	1.006	-0.1	0.900	1.172



	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	ECl 3	40185	2549.5	24.38	25.50	1.294	62.9	1.006	0.13	0.478	0.622
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECl 3	40185	2549.5	19.30	20.50	1.318	62.9	1.006	0.1	0.956	1.268
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	ECl 3	40185	2549.5	19.30	20.50	1.318	62.9	1.006	-0.11	0.526	0.698
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECl 3	507000	2535	20.25	20.70	1.109	-	-	0.14	0.671	0.744
	FR1 n7	50M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECl 3	507000	2535	20.25	20.70	1.109	-	-	-0.1	1.760	1.952
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	5mm	Ant 4	ECl 4	507000	2535	25.23	25.70	1.114	-	-	0.06	1.410	1.571
	FR1 n7	50M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 4	ECl 4	507000	2535	25.23	25.70	1.114	-	-	0.11	1.070	1.192
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 4	ECl 3	507000	2535	20.22	20.70	1.117	-	-	-0.01	0.774	0.864
	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	0mm	Ant 4	ECl 3	507000	2535	20.22	20.70	1.117	-	-	0.14	1.730	1.932
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 4	ECl 4	507000	2535	24.95	25.70	1.189	-	-	0.13	1.540	1.830
	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	5mm	Ant 4	ECl 4	507000	2535	24.95	25.70	1.189	-	-	0.02	1.160	1.379
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	0mm	Ant 3	ECl 3	507000	2535	18.51	19.50	1.256	-	-	-0.02	1.510	1.897
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	5mm	Ant 3	ECl 4	507000	2535	23.00	24.00	1.259	-	-	0.05	1.030	1.297
108	FR1 n7	50M	QPSK	135	68	DFT-15	Back	0mm	Ant 3	ECl 3	507000	2535	18.48	19.50	1.265	-	-	0.18	1.610	2.036
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 3	ECl 4	507000	2535	22.97	24.00	1.268	-	-	-0.11	1.110	1.407
	FR1 n7	50M	QPSK	270	0	DFT-15	Back	0mm	Ant 3	ECl 3	507000	2535	18.45	19.50	1.274	-	-	0.1	1.540	1.961
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECl 3	519000	2595	20.78	21.70	1.236	-	-	0.16	1.080	1.335
109	FR1 n38	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECl 3	519000	2595	20.78	21.70	1.236	-	-	0.13	2.010	2.484
	FR1 n38	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	ECl 4	519000	2595	24.75	25.70	1.245	-	-	0.02	1.170	1.456
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	ECl 3	519000	2595	20.75	21.70	1.245	-	-	-0.08	0.996	1.240
	FR1 n38	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 4	ECl 3	519000	2595	20.75	21.70	1.245	-	-	-0.09	1.910	2.377
	FR1 n38	40M	QPSK	100	0	DFT-30	Top Side	0mm	Ant 4	ECl 3	519000	2595	20.73	21.70	1.250	-	-	-0.12	1.860	2.325
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	ECl 3	519000	2595	18.83	20.00	1.309	-	-	0.17	1.770	2.317
	FR1 n38	40M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECl 3	519000	2595	18.83	20.00	1.309	-	-	0.09	1.328	1.738
	FR1 n38	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	ECl 4	519000	2595	23.80	25.00	1.318	-	-	0.18	1.369	1.805
	FR1 n38	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	ECl 4	519000	2595	23.80	25.00	1.318	-	-	0.14	1.186	1.563
	FR1 n38	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 3	ECl 3	519000	2595	18.80	20.00	1.318	-	-	-0.15	1.509	1.989
	FR1 n38	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 3	ECl 3	519000	2595	18.80	20.00	1.318	-	-	-0.16	1.423	1.876
	FR1 n38	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 3	ECl 3	519000	2595	18.78	20.00	1.324	-	-	-0.11	1.473	1.951
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECl 3	518598	2592.99	17.53	18.50	1.250	-	-	-0.14	0.487	0.609
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECl 3	518598	2592.99	17.53	18.50	1.250	-	-	-0.02	1.126	1.408
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECl 3	518598	2592.99	20.83	21.50	1.167	50	1.000	-0.1	1.210	1.411
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	ECl 4	518598	2592.99	23.52	24.50	1.253	-	-	-0.06	1.100	1.378
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	ECl 4	518598	2592.99	26.80	27.50	1.175	50	1.000	-0.09	1.071	1.258
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	ECl 4	518598	2592.99	23.52	24.50	1.253	-	-	0.14	0.861	1.079
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	ECl 3	518598	2592.99	17.50	18.50	1.259	-	-	0.05	0.496	0.625
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	ECl 3	518598	2592.99	17.50	18.50	1.259	-	-	-0.06	0.867	1.091
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 4	ECl 3	518598	2592.99	17.47	18.50	1.268	-	-	0.18	0.827	1.048
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	ECl 3	518598	2592.99	17.83	19.00	1.309	-	-	-0.06	1.110	1.453
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECl 3	518598	2592.99	17.83	19.00	1.309	-	-	0.15	0.609	0.797
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	ECl 4	518598	2592.99	22.29	23.50	1.321	-	-	0.08	1.060	1.401
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	ECl 4	518598	2592.99	22.29	23.50	1.321	-	-	0.05	0.932	1.231
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	ECl 4	518598	2592.99	25.90	26.50	1.148	50	1.000	-0.03	1.210	1.389
110	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	ECl 3	518598	2592.99	17.80	19.00	1.318	-	-	-0.1	1.300	1.714
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	ECl 3	518598	2592.99	17.80	19.00	1.318	-	-	-0.03	0.727	0.958
	FR1 n41 PC2	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	ECl 3	518598	2592.99	21.40	22.00	1.148	50	1.000	0.02	1.390	1.596
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	ECl 4	518598	2592.99	22.26	23.50	1.330	-	-	0.12	1.150	1.530
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 3	ECl 4	518598	2592.99	22.26	23.50	1.330	-	-	-0.05	0.944	1.256
	FR1 n41 PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	ECl 4	518598	2592.99	25.88	26.50	1.153	50	1.000	-0.11	1.260	1.453
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 3	ECl 3	518598	2592.99	17.78	19.00	1.324	-	-	-0.18	1.170	1.549
3000MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 6	ECl 3	42590	3500	20.14	20.70	1.138	62.9	1.006	-0.11	0.386	0.442
	LTE Band 42	20M	QPSK	1	0	-	Top Side	0mm	Ant 6	ECl 3	42590	3500	20.14	20.70	1.138	62.9	1.006	-0.16	1.400	1.602
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 6	ECl 4	42590	3500	25.35	25.70	1.084	62.9	1.006	0.14	0.926	1.010
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 6	ECl 4	42590	3500	25.35	25.70	1.084	62.9	1.006	0.13	1.300	1.418
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 6	ECl 3	42590	3500	20.13	20.70	1.140	62.9	1.006	0.02	0.373	0.428



	LTE Band 42	20M	QPSK	50	0	-	Top Side	0mm	Ant 6	ECl 3	42590	3500	20.13	20.70	1.140	62.9	1.006	-0.16	1.310	1.503
	LTE Band 42	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECl 3	42590	3500	16.06	17.50	1.393	62.9	1.006	-0.06	0.924	1.295
111	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	42590	3500	21.85	23.00	1.303	62.9	1.006	0.13	1.940	2.543
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	42190	3460	21.83	23.00	1.309	62.9	1.006	0.04	1.760	2.318
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	42990	3540	21.58	23.00	1.387	62.9	1.006	0.08	1.810	2.525
	LTE Band 42	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECl 3	42590	3500	16.05	17.50	1.396	62.9	1.006	-0.11	0.902	1.267
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	42590	3500	20.80	22.00	1.318	62.9	1.006	0.06	1.820	2.414
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	42190	3460	20.79	22.00	1.321	62.9	1.006	0.02	1.630	2.167
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	42990	3540	20.52	22.00	1.406	62.9	1.006	0.11	1.720	2.433
	LTE Band 42	20M	QPSK	100	0	-	Back	0mm	Ant 9	ECl 3	42590	3500	16.03	17.50	1.403	62.9	1.006	-0.14	0.876	1.236
	LTE Band 42	20M	QPSK	100	0	-	Back	5mm	Ant 9	ECl 4	42590	3500	20.75	22.00	1.334	62.9	1.006	0.08	1.760	2.361
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 6	ECl 3	55830	3609	21.93	22.70	1.194	62.9	1.006	-0.01	0.398	0.478
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 6	ECl 3	55830	3609	21.93	22.70	1.194	62.9	1.006	0	1.304	1.566
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 6	ECl 3	55340	3560	21.74	22.70	1.247	62.9	1.006	0.18	1.920	2.409
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 6	ECl 3	56150	3641	21.66	22.70	1.271	62.9	1.006	0.07	1.381	1.765
	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 6	ECl 3	56640	3690	21.71	22.70	1.256	62.9	1.006	0.01	1.428	1.804
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 6	ECl 4	55830	3609	24.56	25.20	1.159	62.9	1.006	-0.03	0.707	0.824
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 6	ECl 4	55830	3609	24.56	25.20	1.159	62.9	1.006	0.1	1.020	1.189
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 6	ECl 3	55830	3609	21.63	22.70	1.279	62.9	1.006	0.18	0.313	0.403
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 6	ECl 3	55830	3609	21.63	22.70	1.279	62.9	1.006	-0.19	1.067	1.373
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 6	ECl 3	55340	3560	21.46	22.70	1.330	62.9	1.006	0.11	1.135	1.519
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 6	ECl 3	56150	3641	21.39	22.70	1.352	62.9	1.006	0.03	1.138	1.548
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 6	ECl 3	56640	3690	21.44	22.70	1.337	62.9	1.006	0.19	1.180	1.587
	LTE Band 48	20M	QPSK	100	0	-	Top Side	0mm	Ant 6	ECl 3	55830	3609	21.62	22.70	1.282	62.9	1.006	-0.04	1.066	1.375
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECl 3	55830	3609	19.56	21.00	1.393	62.9	1.006	0.06	1.660	2.327
112	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECl 3	55340	3560	19.36	21.00	1.459	62.9	1.006	-0.17	1.740	2.554
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECl 3	56150	3641	19.45	21.00	1.429	62.9	1.006	-0.15	1.530	2.199
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 9	ECl 3	56640	3690	19.40	21.00	1.445	62.9	1.006	0.08	1.300	1.890
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	55830	3609	20.78	22.00	1.324	62.9	1.006	-0.05	1.630	2.172
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	55340	3560	20.63	22.00	1.371	62.9	1.006	0.01	1.720	2.372
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	56150	3641	20.68	22.00	1.355	62.9	1.006	0.02	1.460	1.990
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECl 4	56640	3690	20.71	22.00	1.346	62.9	1.006	0.11	1.230	1.665
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECl 3	55830	3609	19.55	21.00	1.396	62.9	1.006	-0.18	1.580	2.219
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECl 3	55340	3560	19.33	21.00	1.469	62.9	1.006	0.05	1.710	2.527
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECl 3	56150	3641	19.43	21.00	1.435	62.9	1.006	-0.01	1.450	2.094
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 9	ECl 3	56640	3690	19.38	21.00	1.452	62.9	1.006	0.13	1.230	1.797
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	55830	3609	19.75	21.00	1.334	62.9	1.006	0.1	1.580	2.120
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	55340	3560	19.69	21.00	1.352	62.9	1.006	0.07	1.630	2.217
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	56150	3641	19.73	21.00	1.340	62.9	1.006	-0.03	1.430	1.927
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECl 4	56640	3690	19.71	21.00	1.346	62.9	1.006	0.08	1.210	1.638
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 9	ECl 3	55830	3609	19.53	21.00	1.403	62.9	1.006	-0.1	1.510	2.131
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 9	ECl 4	55830	3609	19.68	21.00	1.355	62.9	1.006	0.12	1.560	2.127
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 6	ECl 3	6416663624.99	19.88	20.70	1.208	-	-	-	-0.06	0.497	0.600
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	6416663624.99	19.88	20.70	1.208	-	-	-	0	1.850	2.234
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	6380003570	19.78	20.70	1.236	-	-	-	0.11	1.670	2.064
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	6453323679.98	19.75	20.70	1.245	-	-	-	0.05	1.710	2.128
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 6	ECl 4	6416663624.99	24.35	25.20	1.216	-	-	-	0.03	0.851	1.035
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	6416663624.99	24.35	25.20	1.216	-	-	-	-0.08	1.560	1.897
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 6	ECl 3	6416663624.99	19.85	20.70	1.216	-	-	-	-0.11	0.510	0.620
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 6	ECl 3	6416663624.99	19.85	20.70	1.216	-	-	-	-0.12	1.900	2.311
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 6	ECl 3	6380003570	19.75	20.70	1.245	-	-	-	-0.03	1.670	2.078
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 6	ECl 3	6453323679.98	19.73	20.70	1.250	-	-	-	0.05	1.730	2.163
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 6	ECl 4	6416663624.99	24.24	25.20	1.247	-	-	-	0	0.869	1.084
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 6	ECl 4	6416663624.99	24.24	25.20	1.247	-	-	-	0.02	1.600	1.996
	FR1 n48	40M	QPSK	100	0	DFT-30	Top Side	0mm	Ant 6	ECl 3	6416663624.99	19.75	20.70	1.245	-	-	-	0.03	1.750	2.178
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	ECl 3	6416663624.99	20.36	22.00	1.459	-	-	-	-0.15	1.120	1.634



FCC SAR Test Report

Report No. : FA442515

	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 8	ECl 3	6416663624.99	20.36	22.00	1.459	-	-	-0.15	1.610	2.349
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 8	ECl 3	638000 3570	20.33	22.00	1.469	-	-	0.06	1.410	2.071
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 8	ECl 3	6453323679.98	20.30	22.00	1.479	-	-	0.01	1.520	2.248
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	ECl 4	6416663624.99	21.35	23.00	1.462	-	-	-0.12	0.456	0.667
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	ECl 4	6416663624.99	21.35	23.00	1.462	-	-	0.19	0.367	0.537
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	ECl 3	6416663624.99	20.31	22.00	1.476	-	-	-0.08	1.110	1.638
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 8	ECl 3	6416663624.99	20.31	22.00	1.476	-	-	0.12	1.540	2.273
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 8	ECl 3	638000 3570	20.30	22.00	1.479	-	-	-0.12	1.400	2.071
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	0mm	Ant 8	ECl 3	6453323679.98	20.25	22.00	1.496	-	-	0.05	1.480	2.214
	FR1 n48	40M	QPSK	100	0	DFT-30	Top Side	0mm	Ant 8	ECl 3	6416663624.99	20.25	22.00	1.496	-	-	0.07	1.520	2.274
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECl 4	6416663624.99	19.08	20.50	1.387	-	-	-0.06	0.491	0.681
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	6416663624.99	19.08	20.50	1.387	-	-	-0.04	1.730	2.399
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	638000 3570	19.05	20.50	1.396	-	-	0.07	1.580	2.206
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	6453323679.98	19.02	20.50	1.406	-	-	-0.11	1.610	2.264
113	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 7	ECl 4	6416663624.99	19.05	20.50	1.396	-	-	0.15	0.500	0.698
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 7	ECl 4	6416663624.99	19.05	20.50	1.396	-	-	0	1.800	2.513
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 7	ECl 4	638000 3570	19.03	20.50	1.403	-	-	0.05	1.630	2.287
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	0mm	Ant 7	ECl 4	6453323679.98	19.00	20.50	1.413	-	-	0.11	1.670	2.359
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Side	0mm	Ant 7	ECl 4	6416663624.99	19.03	20.50	1.403	-	-	0.09	1.750	2.455
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	6416663624.99	18.15	19.00	1.216	-	-	-0.02	1.770	2.153
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	6416663624.99	20.15	21.50	1.365	-	-	0.05	1.550	2.115
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	638000 3570	20.13	21.50	1.371	-	-	0.07	1.460	2.001
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	6453323679.98	20.11	21.50	1.377	-	-	0.13	1.430	1.969
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 9	ECl 3	6416663624.99	18.11	19.00	1.227	-	-	-0.19	1.820	2.234
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 9	ECl 4	6416663624.99	20.11	21.50	1.377	-	-	-0.11	1.600	2.204
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	638000 3570	20.06	21.50	1.393	-	-	0.07	1.500	2.090
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	6453323679.98	20.09	21.50	1.384	-	-	0.13	1.470	2.034
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 9	ECl 3	6416663624.99	18.07	19.00	1.239	-	-	0.16	1.600	1.982
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 9	ECl 4	6416663624.99	19.50	21.00	1.413	-	-	0.05	1.400	1.978
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	6333323499.98	18.75	19.50	1.189	-	-	-0.15	1.320	1.569
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	6333323499.98	23.22	24.00	1.197	-	-	-0.15	1.370	1.640
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	6333323499.98	26.50	27.00	1.122	50	1.000	-0.15	1.550	1.739
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	6333323499.98	18.73	19.50	1.194	-	-	0.09	1.350	1.612
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	6333323499.98	22.00	22.50	1.122	50	1.000	0.01	1.500	1.683
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	6333323499.98	23.16	24.00	1.213	-	-	0.19	1.440	1.747
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	6333323499.98	26.48	27.00	1.127	50	1.000	0.15	1.600	1.804
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	656000 3840	18.73	19.50	1.194	-	-	0.04	1.320	1.576
	FR1 n77	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	656000 3840	23.20	24.00	1.202	-	-	0.11	0.852	1.024
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	656000 3840	26.53	27.00	1.114	50	1.000	0.05	0.943	1.051
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	656000 3840	18.70	19.50	1.202	-	-	0.16	1.330	1.599
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	656000 3840	22.03	22.50	1.114	50	1.000	-0.19	1.540	1.716
	FR1 n77	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	656000 3840	23.13	24.00	1.222	-	-	-0.15	0.889	1.086
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	656000 3840	26.50	27.00	1.122	50	1.000	-0.16	0.978	1.097
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	6333323499.98	17.98	19.00	1.265	-	-	0.11	1.580	1.998
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	6333323499.98	21.32	22.00	1.169	50	1.000	0.1	1.620	1.895
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	ECl 4	6333323499.98	17.95	19.00	1.274	-	-	0.17	1.560	1.987
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	6333323499.98	14.63	16.00	1.371	-	-	-0.15	0.879	1.205
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	6333323499.98	18.63	20.00	1.371	-	-	0.06	1.530	2.097
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	6333323499.98	22.08	23.00	1.236	50	1.000	0.11	1.820	2.249
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECl 3	6333323499.98	14.61	16.00	1.377	-	-	-0.12	0.880	1.212
	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECl 3	6333323499.98	18.05	19.00	1.245	50	1.000	-0.02	0.982	1.222
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	ECl 4	6333323499.98	18.60	20.00	1.380	-	-	0.12	1.660	2.291
114	FR1 n77 PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	ECl 4	6333323499.98	22.05	23.00	1.245	50	1.000	0.13	1.920	2.389
	FR1 n77	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 9	ECl 4	6333323499.98	18.53	20.00	1.403	-	-	0.02	1.470	2.062
	FR1 n77 PC2	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 9	ECl 4	6333323499.98	21.98	23.00	1.265	-	-	0.07	1.710	2.163
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	656000 3840	14.45	16.00	1.429	-	-	-0.09	0.496	0.709



	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	656000	3840	17.88	19.00	1.294	50	1.000	-0.1	0.577	0.747
	FR1 n77	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	656000	3840	18.43	20.00	1.435	-	-	-0.03	0.663	0.952
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	656000	3840	21.88	23.00	1.294	50	1.000	0.04	0.723	0.936
	FR1 n77	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECl 3	656000	3840	14.43	16.00	1.435	-	-	-0.01	0.421	0.604
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	633332	3499.98	19.23	20.00	1.194	-	-	-0.18	1.440	1.719
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	633332	3499.98	23.70	24.50	1.202	-	-	0.05	1.520	1.827
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	633332	3499.98	27.15	27.50	1.084	50	1.000	-0.03	1.770	1.919
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	633332	3499.98	19.20	20.00	1.202	-	-	0.05	1.460	1.755
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	633332	3499.98	22.65	23.00	1.084	50	1.000	-0.03	1.560	1.691
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	633332	3499.98	23.68	24.50	1.208	-	-	0.17	1.640	1.981
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	633332	3499.98	27.13	27.50	1.089	50	1.000	-0.01	1.830	1.993
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 6	ECl 3	650000	3750	19.18	20.00	1.208	-	-	-0.03	1.150	1.389
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	650000	3750	23.65	24.50	1.216	-	-	0.08	1.020	1.241
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 6	ECl 4	650000	3750	27.11	27.50	1.094	50	1.000	0.11	1.130	1.236
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	650000	3750	19.15	20.00	1.216	-	-	-0.13	1.180	1.435
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 6	ECl 3	650000	3750	22.61	23.00	1.094	50	1.000	0.04	1.300	1.422
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	650000	3750	23.63	24.50	1.222	-	-	0.12	1.100	1.344
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 6	ECl 4	650000	3750	27.08	27.50	1.102	50	1.000	0.08	1.210	1.333
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 8	ECl 3	633332	3499.98	19.12	20.00	1.225	-	-	0.07	0.576	0.705
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	ECl 3	633332	3499.98	19.12	20.00	1.225	-	-	0.09	0.992	1.215
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 8	ECl 3	633332	3499.98	19.12	20.00	1.225	-	-	-0.15	1.300	1.592
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 8	ECl 3	633332	3499.98	19.12	20.00	1.225	-	-	-0.03	0.560	0.686
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 8	ECl 3	633332	3499.98	20.98	22.00	1.265	50	1.000	0.02	1.080	1.366
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	ECl 4	633332	3499.98	24.10	25.00	1.230	-	-	-0.11	0.622	0.765
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	ECl 4	633332	3499.98	24.10	25.00	1.230	-	-	0.11	0.904	1.112
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	ECl 4	633332	3499.98	24.10	25.00	1.230	-	-	0.15	0.813	1.000
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	ECl 4	633332	3499.98	24.10	25.00	1.230	-	-	0.13	0.639	0.786
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	ECl 4	633332	3499.98	25.45	26.50	1.274	50	1.000	0.08	0.634	0.807
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 8	ECl 3	633332	3499.98	19.10	20.00	1.230	-	-	0.15	0.568	0.699
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	ECl 3	633332	3499.98	19.10	20.00	1.230	-	-	-0.11	1.010	1.243
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 8	ECl 3	633332	3499.98	19.10	20.00	1.230	-	-	-0.13	1.250	1.538
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 8	ECl 3	633332	3499.98	19.10	20.00	1.230	-	-	0.07	0.617	0.759
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 8	ECl 3	650000	3750	19.08	20.00	1.236	-	-	0.17	0.466	0.576
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	ECl 3	650000	3750	19.08	20.00	1.236	-	-	0.08	0.727	0.899
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 8	ECl 3	650000	3750	19.08	20.00	1.236	-	-	-0.15	1.040	1.285
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 8	ECl 3	650000	3750	19.08	20.00	1.236	-	-	0.13	0.942	1.164
	FR1 n78	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	ECl 4	650000	3750	24.05	25.00	1.245	-	-	0.07	0.423	0.526
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	ECl 4	650000	3750	24.05	25.00	1.245	-	-	0.01	0.871	1.084
	FR1 n78	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	ECl 4	650000	3750	24.05	25.00	1.245	-	-	-0.05	0.572	0.712
	FR1 n78	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	ECl 4	650000	3750	24.05	25.00	1.245	-	-	0.03	0.765	0.952
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	ECl 4	650000	3750	25.50	26.50	1.259	50	1.000	0.04	0.672	0.846
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 8	ECl 3	650000	3750	19.06	20.00	1.242	-	-	-0.03	0.470	0.584
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	ECl 3	650000	3750	19.06	20.00	1.242	-	-	0.13	0.711	0.883
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 8	ECl 3	650000	3750	19.06	20.00	1.242	-	-	-0.17	1.060	1.316
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 8	ECl 3	650000	3750	19.06	20.00	1.242	-	-	-0.02	0.951	1.181
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 8	ECl 3	650000	3750	22.00	23.00	1.259	50	1.000	0.14	0.950	1.196
	FR1 n78	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	ECl 4	650000	3750	24.03	25.00	1.250	-	-	0.02	0.442	0.553
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	ECl 4	650000	3750	24.03	25.00	1.250	-	-	-0.07	0.890	1.113
	FR1 n78	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 8	ECl 4	650000	3750	24.03	25.00	1.250	-	-	0.17	0.595	0.744
	FR1 n78	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	ECl 4	650000	3750	24.03	25.00	1.250	-	-	0.01	0.798	0.998
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	ECl 4	650000	3750	25.45	26.50	1.274	50	1.000	0.02	0.622	0.792
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	633332	3499.98	17.12	18.50	1.374	-	-	0.15	1.280	1.759
115	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	ECl 4	633332	3499.98	17.10	18.50	1.380	-	-	-0.1	1.560	2.153
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	ECl 4	633332	3499.98	20.71	21.50	1.199	50	1.000	0.18	1.670	2.003
	FR1 n78	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 7	ECl 4	633332	3499.98	17.08	18.50	1.387	-	-	0.07	1.230	1.706
	FR1 n78	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	650000	3750	17.02	18.50	1.406	-	-	0.06	1.110	1.561



	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECl 4	650000	3750	20.67	21.50	1.211	50	1.000	-0.06	1.270	1.537
	FR1 n78	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	ECl 4	650000	3750	17.00	18.50	1.413	-	-	0.14	1.040	1.469
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	633332	3499.98	15.22	16.50	1.343	-	-	-0.13	0.860	1.155
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	633332	3499.98	19.22	20.50	1.343	-	-	0.05	1.480	1.987
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	633332	3499.98	22.78	23.50	1.180	50	1.000	-0.07	1.060	1.251
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECl 3	633332	3499.98	15.20	16.50	1.349	-	-	0.07	0.880	1.187
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECl 3	633332	3499.98	18.76	19.50	1.186	50	1.000	0.15	0.929	1.102
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	ECl 4	633332	3499.98	19.20	20.50	1.349	-	-	0.09	1.570	2.118
	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	ECl 4	633332	3499.98	22.76	23.50	1.186	50	1.000	0.12	1.620	1.921
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	650000	3750	15.18	16.50	1.355	-	-	-0.02	0.602	0.816
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 9	ECl 3	650000	3750	18.15	19.50	1.365	50	1.000	-0.09	0.580	0.791
	FR1 n78	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	650000	3750	19.18	20.50	1.355	-	-	-0.05	1.020	1.382
	FR1 n78 PC2	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECl 4	650000	3750	22.15	23.50	1.365	50	1.000	-0.08	0.922	1.258
	FR1 n78	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 9	ECl 3	650000	3750	15.16	16.50	1.361	-	-	0.08	0.547	0.745

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)
5000MHz																
	WLAN5.3GHz	802.11ax-HE40 MCS0	Front	0mm	Ant 6+17(17)	Standalone	54	5270	17.17	18.00	1.210	92.48	1.081	-0.05	1.270	1.661
	WLAN5.3GHz	802.11ax-HE40 MCS0	Back	0mm	Ant 6+17(17)	Standalone	54	5270	17.17	18.00	1.210	92.48	1.081	0.17	0.513	0.671
	WLAN5.3GHz	802.11ax-HE40 MCS0	Right Side	0mm	Ant 6+17(17)	Standalone	54	5270	17.17	18.00	1.210	92.48	1.081	-0.04	1.320	1.727
116	WLAN5.3GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 6+17(17)	Standalone	54	5270	17.17	18.00	1.210	92.48	1.081	-0.17	1.790	2.342
	WLAN5.3GHz	802.11ax-HE40 MCS0	Top Side	0mm	Ant 6+17(6)	Standalone	62	5310	16.61	18.00	1.377	92.48	1.081	-0.04	1.510	2.248
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6+17(6)	Non-DBS	58	5290	13.21	14.00	1.200	88.14	1.135	0.09	0.696	0.948
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+17(6)	Non-DBS	58	5290	13.21	14.00	1.200	88.14	1.135	-0.15	0.281	0.383
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+17(6)	Non-DBS	58	5290	13.21	14.00	1.200	88.14	1.135	-0.03	0.723	0.984
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+17(6)	Non-DBS	58	5290	13.21	14.00	1.200	88.14	1.135	0.02	0.948	1.291
	WLAN5.5GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 6+17	Standalone	122	5610	20.64	21.50	1.219	86.78	1.152	-0.18	1.410	1.981
	WLAN5.5GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 6+17	Standalone	122	5610	20.64	21.50	1.219	86.78	1.152	0.14	0.896	1.259
	WLAN5.5GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 6+17	Standalone	122	5610	20.64	21.50	1.219	86.78	1.152	0.07	1.680	2.360
117	WLAN5.5GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 6+17	Standalone	122	5610	20.64	21.50	1.219	86.78	1.152	-0.12	1.840	2.585
	WLAN5.5GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 6+17(17)	Standalone	138	5690	17.24	18.00	1.192	86.78	1.152	-0.02	1.788	2.456
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 6+17(6)	Non-DBS	114	5570	12.04	13.50	1.399	94.38	1.060	-0.18	0.681	1.010
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+17(6)	Non-DBS	114	5570	12.04	13.50	1.399	94.38	1.060	0.14	0.433	0.642
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 6+17(6)	Non-DBS	114	5570	12.04	13.50	1.399	94.38	1.060	0.07	0.812	1.204
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 6+17(6)	Non-DBS	114	5570	12.04	13.50	1.399	94.38	1.060	-0.12	0.880	1.305
	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 6+17(6)	Standalone	149	5745	17.94	19.00	1.275	97.65	1.024	-0.04	1.870	2.442
	WLAN5.8GHz	802.11a 6Mbps	Right Side	0mm	Ant 6+17(6)	Standalone	157	5785	17.85	19.00	1.302	97.65	1.024	0.05	1.810	2.414
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 6+17(6)	Standalone	149	5745	17.94	19.00	1.275	97.65	1.024	0.14	1.940	2.534
118	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 6+17(6)	Standalone	157	5785	17.85	19.00	1.302	97.65	1.024	-0.05	1.930	2.574
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+17(6)	Non-DBS	155	5775	14.20	15.50	1.349	88.14	1.135	-0.04	0.811	1.242
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+17(6)	Non-DBS	155	5775	14.20	15.50	1.349	88.14	1.135	0.14	0.833	1.276



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECl 1	1513	1752.6	18.64	19.50	1.219	-	-	-0.01	0.862	1	1.051
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECl 1	1513	1752.6	18.64	19.50	1.219	-	-	-0.06	0.841	1.025	1.025
1st	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Right Cheek	0mm	Ant 4	ECl 1	810	1909.8	24.28	25.00	1.180	-	-	-0.03	0.871	1	1.028
2nd	GSM1900	-	-	-	-	GPRS(4 Tx slots)	Right Cheek	0mm	Ant 4	ECl 1	810	1909.8	24.28	25.00	1.180	-	-	-0.06	0.846	1.030	0.999
1st	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECl 1	518598	2592.99	20.83	21.50	1.167	50	1.000	0.07	0.837	1	0.977
2nd	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECl 1	518598	2592.99	20.83	21.50	1.167	50	1.000	0.03	0.826	1.013	0.964
1st	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	641666	3624.99	17.38	18.20	1.208	-	-	0.04	0.842	1	1.017
2nd	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	641666	3624.99	17.38	18.20	1.208	-	-	0.02	0.836	1.007	1.010
1st	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	633332	3499.98	19.15	19.50	1.084	50	1.000	-0.01	0.871	1	0.944
2nd	FR1 n78 PC2	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	ECl 1	633332	3499.98	19.15	19.50	1.084	50	1.000	-0.06	0.863	1.009	0.935

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n38	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECl 3	519000	2595	20.78	21.70	1.236	-	-	0.13	2.010	1	2.484
2nd	FR1 n38	40M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECl 3	519000	2595	20.78	21.70	1.236	-	-	0.16	1.960	1.026	2.422

General Note:

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

16.6 TDD 5GNR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for 5GNR n41/n77/n78. The highest available duty cycle for Power Class 2 operation is 50% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each 5GNR configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

Head			Hopspot		
FR1 n41_Ant 4(HPUE)-Linearity Data for ECI1			FR1 n41_Ant 4(HPUE)-Linearity Data for ECI5		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.895	0.977	Reported 1g SAR (W/kg)	0.424	0.411
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.893		Linearity SAR (W/kg)	0.423	
% deviation from expected linearity		9.42%	% deviation from expected linearity		-2.84%
FR1 n41_Ant 2(HPUE)-Linearity Data for ECI1			FR1 n41_Ant 2(HPUE)-Linearity Data for ECI5		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	0.200	0.219	Reported 1g SAR (W/kg)	0.348	0.369
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	0.200		Linearity SAR (W/kg)	0.347	
% deviation from expected linearity		9.76%	% deviation from expected linearity		6.29%
FR1 n41_Ant 5(HPUE)-Linearity Data for ECI1			FR1 n41_Ant 5(HPUE)-Linearity Data for ECI5		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.687	0.720	Reported 1g SAR (W/kg)	0.582	0.533
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59	Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.685		Linearity SAR (W/kg)	0.581	
% deviation from expected linearity		5.05%	% deviation from expected linearity		-8.20%
FR1 n41_Ant 3(HPUE)-Linearity Data for ECI1			FR1 n41_Ant 3(HPUE)-Linearity Data for ECI5		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00	Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.550	0.593	Reported 1g SAR (W/kg)	0.356	0.327
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95	Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.549		Linearity SAR (W/kg)	0.355	
% deviation from expected linearity		8.07%	% deviation from expected linearity		-7.93%
Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.634	0.663	Reported 1g SAR (W/kg)	0.321	0.341
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.632		Linearity SAR (W/kg)	0.320	
% deviation from expected linearity		4.82%	% deviation from expected linearity		6.48%
Part27O n77_Ant 6(HPUE)-Linearity Data for ECI1			Part27O n77_Ant 6(HPUE)-Linearity Data for ECI5		



	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.460	0.495	Reported 1g SAR (W/kg)	0.263	0.264
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.459		Linearity SAR (W/kg)	0.262	
% deviation from expected linearity		7.86%	% deviation from expected linearity		0.62%
Part27Q n77_Ant 8(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 8(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	1.066	1.011	Reported 1g SAR (W/kg)	0.290	0.289
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	1.063		Linearity SAR (W/kg)	0.289	
% deviation from expected linearity		-4.93%	% deviation from expected linearity		-0.11%
Part27Q n77_Ant 8(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 8(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.915	0.825	Reported 1g SAR (W/kg)	0.388	0.392
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.913		Linearity SAR (W/kg)	0.387	
% deviation from expected linearity		-9.62%	% deviation from expected linearity		1.27%
Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	1.082	0.976	Reported 1g SAR (W/kg)	0.390	0.398
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	1.079		Linearity SAR (W/kg)	0.389	
% deviation from expected linearity		-9.58%	% deviation from expected linearity		2.29%
Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.50	20.50	Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.556	0.505	Reported 1g SAR (W/kg)	0.282	0.305
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	56.23	56.10	Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.555		Linearity SAR (W/kg)	0.281	
% deviation from expected linearity		-8.96%	% deviation from expected linearity		8.41%
Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.00	24.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.080	0.075	Reported 1g SAR (W/kg)	1.003	1.067
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.080		Linearity SAR (W/kg)	1.001	
% deviation from expected linearity		-6.03%	% deviation from expected linearity		6.63%
Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI1			Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI5		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)



Maximum Tune up Power (dBm)	21.00	24.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.535	0.504	Reported 1g SAR (W/kg)	0.362	0.334
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.534		Linearity SAR (W/kg)	0.361	
% deviation from expected linearity		-5.57%	% deviation from expected linearity		-7.52%
Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI1			Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.904	0.944	Reported 1g SAR (W/kg)	0.333	0.344
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.902		Linearity SAR (W/kg)	0.332	
% deviation from expected linearity		4.67%	% deviation from expected linearity		3.55%
Part27O n78_Ant 6(HPUE)-Linearity Data for ECI1			Part27O n78_Ant 6(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.565	0.511	Reported 1g SAR (W/kg)	0.325	0.302
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.564		Linearity SAR (W/kg)	0.324	
% deviation from expected linearity		-9.34%	% deviation from expected linearity		-6.86%
Part27Q n78_Ant 8(HPUE)-Linearity Data for ECI1			Part27Q n78_Ant 8(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.760	0.710	Reported 1g SAR (W/kg)	0.188	0.171
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.758		Linearity SAR (W/kg)	0.188	
% deviation from expected linearity		-6.36%	% deviation from expected linearity		-8.83%
Part27O n78_Ant 8(HPUE)-Linearity Data for ECI1			Part27O n78_Ant 8(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.900	0.880	Reported 1g SAR (W/kg)	0.220	0.201
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.898		Linearity SAR (W/kg)	0.219	
% deviation from expected linearity		-1.99%	% deviation from expected linearity		-8.42%
Part27Q n78_Ant 7(HPUE)-Linearity Data for ECI1			Part27Q n78_Ant 7(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.654	0.623	Reported 1g SAR (W/kg)	0.272	0.252
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.652		Linearity SAR (W/kg)	0.271	
% deviation from expected linearity		-4.51%	% deviation from expected linearity		-7.13%
Part27O n78_Ant 7(HPUE)-Linearity Data for ECI1			Part27O n78_Ant 7(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.672	0.628	Reported 1g SAR (W/kg)	0.301	0.283



Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.670		Linearity SAR (W/kg)	0.300	
% deviation from expected linearity		-6.33%	% deviation from expected linearity		-5.76%
Part27Q n78_Ant 9(HPUE)-Linearity Data for ECI1			Part27Q n78_Ant 9(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	26.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.216	0.143	Reported 1g SAR (W/kg)	0.931	0.915
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	199.05	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.136		Linearity SAR (W/kg)	0.929	
% deviation from expected linearity		5.17%	% deviation from expected linearity		-1.49%
Part27O n78_Ant 9(HPUE)-Linearity Data for ECI1			Part27O n78_Ant 9(HPUE)-Linearity Data for ECI5		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	26.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.815	0.537	Reported 1g SAR (W/kg)	0.413	0.375
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	199.05	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.513		Linearity SAR (W/kg)	0.412	
% deviation from expected linearity		4.68%	% deviation from expected linearity		-8.99%

Body-worn			Extremity		
FR1 n41_Ant 4(HPUE)-Linearity Data for ECI4			FR1 n41_Ant 4(HPUE)-Linearity Data for ECI3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.564	0.567	Reported 10g SAR (W/kg)	1.408	1.411
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.563		Linearity SAR (W/kg)	1.405	
% deviation from expected linearity		0.77%	% deviation from expected linearity		0.45%
FR1 n41_Ant 2(HPUE)-Linearity Data for ECI4					
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)			
Maximum Tune up Power (dBm)	23.50	26.50			
Reported 1g SAR (W/kg)	0.299	0.320			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	223.87	223.34			
Linearity SAR (W/kg)	0.298				
% deviation from expected linearity		7.28%			
FR1 n41_Ant 5(HPUE)-Linearity Data for ECI4					
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)			
Maximum Tune up Power (dBm)	21.00	24.00			
Reported 1g SAR (W/kg)	0.121	0.110			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	125.89	125.59			
Linearity SAR (W/kg)	0.121				
% deviation from expected linearity		-8.88%			
FR1 n41_Ant 3(HPUE)-Linearity Data for ECI4			FR1 n41_Ant 3(HPUE)-Linearity Data for ECI3		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)		FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.563	0.564	Reported 10g SAR (W/kg)	1.714	1.596



Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.562		Linearity SAR (W/kg)	1.710	
% deviation from expected linearity		0.42%	% deviation from expected linearity		-6.66%
Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI4			Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	19.50	22.50
Reported 1g SAR (W/kg)	0.556	0.587	Reported 10g SAR (W/kg)	1.612	1.683
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	89.13	88.91
Linearity SAR (W/kg)	0.555		Linearity SAR (W/kg)	1.608	
% deviation from expected linearity		5.83%	% deviation from expected linearity		4.65%
Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI4			Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	19.50	22.50
Reported 1g SAR (W/kg)	0.400	0.404	Reported 10g SAR (W/kg)	1.599	1.716
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59	Frame Averaged (mW)	89.13	88.91
Linearity SAR (W/kg)	0.399		Linearity SAR (W/kg)	1.595	
% deviation from expected linearity		1.24%	% deviation from expected linearity		7.57%
Part27Q n77_Ant 8(HPUE)-Linearity Data for ECI4					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	22.00	25.00			
Reported 1g SAR (W/kg)	0.287	0.285			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	158.49	158.11			
Linearity SAR (W/kg)	0.286				
% deviation from expected linearity		-0.46%			
Part27Q n77_Ant 8(HPUE)-Linearity Data for ECI4					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	22.00	25.00			
Reported 1g SAR (W/kg)	0.516	0.556			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	158.49	158.11			
Linearity SAR (W/kg)	0.515				
% deviation from expected linearity		8.01%			
Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI4			Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00	Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.225	0.222	Reported 10g SAR (W/kg)	1.998	1.895
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24	Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.224		Linearity SAR (W/kg)	1.993	
% deviation from expected linearity		-1.10%	% deviation from expected linearity		-4.93%
Part27Q n77_Ant 7(HPUE)-Linearity Data for ECI4					
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)			
Maximum Tune up Power (dBm)	19.00	22.00			
Reported 1g SAR (W/kg)	0.173	0.179			
Duty Cycle	100.00%	50.00%			
Frame Averaged (mW)	79.43	79.24			



Linearity SAR (W/kg)	0.173				
% deviation from expected linearity			3.71%		
Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI4			Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.964	0.875	Reported 10g SAR (W/kg)	1.212	1.222
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.962		Linearity SAR (W/kg)	1.209	
% deviation from expected linearity		-9.02%	% deviation from expected linearity		1.06%
Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI4			Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI3		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)		FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.499	0.490	Reported 10g SAR (W/kg)	0.709	0.747
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.498		Linearity SAR (W/kg)	0.707	
% deviation from expected linearity		-1.57%	% deviation from expected linearity		5.61%
Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI4			Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.558	0.549	Reported 10g SAR (W/kg)	1.755	1.691
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.557		Linearity SAR (W/kg)	1.751	
% deviation from expected linearity		-1.38%	% deviation from expected linearity		-3.42%
Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI4			Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.423	0.404	Reported 10g SAR (W/kg)	1.435	1.422
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.422		Linearity SAR (W/kg)	1.432	
% deviation from expected linearity		-4.26%	% deviation from expected linearity		-0.67%
Part27Q n78_Ant 8(HPUE)-Linearity Data for ECI4			Part27Q n78_Ant 8(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	26.50	Maximum Tune up Power (dBm)	20.00	22.00
Reported 1g SAR (W/kg)	0.251	0.191	Reported 10g SAR (W/kg)	1.592	1.366
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	223.34	Frame Averaged (mW)	100.00	79.24
Linearity SAR (W/kg)	0.177		Linearity SAR (W/kg)	1.262	
% deviation from expected linearity		7.74%	% deviation from expected linearity		8.28%
Part27Q n78_Ant 8(HPUE)-Linearity Data for ECI4			Part27Q n78_Ant 8(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	26.50	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.331	0.242	Reported 10g SAR (W/kg)	1.316	1.196
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	223.34	Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.234		Linearity SAR (W/kg)	1.313	
% deviation from expected linearity		3.52%	% deviation from expected linearity		-8.90%



Part27Q n78_Ant 7(HPUE)-Linearity Data for ECI4			Part27Q n78_Ant 7(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.173	0.169	Reported 10g SAR (W/kg)	2.153	2.003
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.173		Linearity SAR (W/kg)	2.148	
% deviation from expected linearity		-2.08%	% deviation from expected linearity		-6.75%
Part27O n78_Ant 7(HPUE)-Linearity Data for ECI4			Part27O n78_Ant 7(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.188	0.177	Reported 10g SAR (W/kg)	1.561	1.537
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.188		Linearity SAR (W/kg)	1.557	
% deviation from expected linearity		-5.63%	% deviation from expected linearity		-1.30%
Part27Q n78_Ant 9(HPUE)-Linearity Data for ECI4			Part27Q n78_Ant 9(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	1.029	0.939	Reported 10g SAR (W/kg)	1.187	1.102
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	1.027		Linearity SAR (W/kg)	1.184	
% deviation from expected linearity		-8.53%	% deviation from expected linearity		-6.94%
Part27O n78_Ant 9(HPUE)-Linearity Data for ECI4			Part27O n78_Ant 9(HPUE)-Linearity Data for ECI3		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)		FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50	Maximum Tune up Power (dBm)	16.50	19.50
Reported 1g SAR (W/kg)	0.647	0.594	Reported 10g SAR (W/kg)	0.816	0.791
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94	Frame Averaged (mW)	44.67	44.56
Linearity SAR (W/kg)	0.645		Linearity SAR (W/kg)	0.814	
% deviation from expected linearity		-7.97%	% deviation from expected linearity		-2.83%

Sensor off		
FR1 n41_Ant 3(HPUE)-Linearity Data for ECI4		
	FR1 n41 (Power Class 3)	FR1 n41 (Power Class 2)
Maximum Tune up Power (dBm)	23.50	26.50
Reported 10g SAR (W/kg)	1.530	1.453
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34
Linearity SAR (W/kg)	1.526	
% deviation from expected linearity		-4.81%
Part27Q n77_Ant 6(HPUE)-Linearity Data for ECI4		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	1.747	1.804
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	1.743	
% deviation from expected linearity		3.51%
Part27O n77_Ant 6(HPUE)-Linearity Data for ECI4		



	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 10g SAR (W/kg)	1.086	1.097
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	1.083	
% deviation from expected linearity		1.25%
Part27Q n77_Ant 9(HPUE)-Linearity Data for ECI4		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00
Reported 10g SAR (W/kg)	2.291	2.389
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	2.286	
% deviation from expected linearity		4.53%
Part27O n77_Ant 9(HPUE)-Linearity Data for ECI4		
	FR1 n77 (Power Class 3)	FR1 n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00
Reported 10g SAR (W/kg)	0.952	0.936
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76
Linearity SAR (W/kg)	0.950	
% deviation from expected linearity		-1.45%
Part27Q n78_Ant 6(HPUE)-Linearity Data for ECI4		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50
Reported 10g SAR (W/kg)	1.981	1.993
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17
Linearity SAR (W/kg)	1.976	
% deviation from expected linearity		0.84%
Part27O n78_Ant 6(HPUE)-Linearity Data for ECI4		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50
Reported 10g SAR (W/kg)	1.344	1.333
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17
Linearity SAR (W/kg)	1.341	
% deviation from expected linearity		-0.58%
FR1 n78_Ant 8(HPUE)-Linearity Data for ECI4		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	26.50
Reported 10g SAR (W/kg)	1.112	0.807
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	223.34
Linearity SAR (W/kg)	0.785	
% deviation from expected linearity		2.75%
FR1 n78_Ant 8(HPUE)-Linearity Data for ECI4		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	25.00	26.50
Reported 10g SAR (W/kg)	1.113	0.792
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	316.23	223.34



Linearity SAR (W/kg)	0.786	
% deviation from expected linearity		0.75%
Part27Q n78_Ant 9(HPUE)-Linearity Data for ECI4		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50
Reported 10g SAR (W/kg)	2.118	1.921
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	2.113	
% deviation from expected linearity		-9.09%
Part27O n78_Ant 9(HPUE)-Linearity Data for ECI4		
	FR1 n78 (Power Class 3)	FR1 n78 (Power Class 2)
Maximum Tune up Power (dBm)	20.50	23.50
Reported 10g SAR (W/kg)	1.382	1.258
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	1.379	
% deviation from expected linearity		-8.76%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN 6GHz	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + WLAN 2.4GHz + Bluetooth	Yes	Yes	Yes	Yes
6.	WWAN + WLAN 5GHz + Bluetooth	Yes	Yes	Yes	Yes
7.	WWAN + WLAN 6GHz + Bluetooth	Yes	Yes		Yes
8.	WWAN + WLAN 2.4GHz + WLAN 5GHz	Yes	Yes	Yes	Yes
9.	WWAN + WLAN 2.4GHz + WLAN 6GHz	Yes	Yes		Yes
10.	WWAN + WLAN 2.4GHz + NFC				Yes
11.	WWAN + WLAN 5GHz/6GHz + NFC				Yes
12.	WWAN + Bluetooth + NFC				Yes
13.	WWAN + WLAN 5GHz/6GHz + Bluetooth + NFC				Yes
14.	WWAN + WLAN 2.4GHz + Bluetooth + NFC				Yes
15.	WWAN + WLAN 2.4GHz + WLAN 5GHz/6GHz				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- WLAN2.4GHz/WLAN5GHz/6GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. TA-SAR algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only). WLAN 6GHz has no hotspot function.
- According to the EUT characteristic, WLAN2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously; WLAN2.4GHz ANT7 and Bluetooth ANT16 can transmit simultaneously.
- According to the EUT characteristic, WLAN5GHz/6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz + WLAN 2.4GHz + Bluetooth cannot transmit simultaneously.
- The worst case 5 GHz/6GHz WLAN SAR for each configuration was used for SAR summation.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- For co-located SAR with WWAN, always chose higher SAR among WLAN5GHz, WLAN 6GHz, it is the worst co-located analysis and can represent each WLAN5GHz and WLAN 6GHz bands.
- The maximum SAR summation is calculated based on the same configuration and test position.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,

- i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
21. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support FR2 or other MPE field measurement, therefore section 17 in the SAR report has no TER analysis according to KDB 987594 requirement.

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

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

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

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

$$\begin{aligned}
 x * A + y * B + m &\leq 1 \\
 x + y &= g \leq 1 \\
 g + m &\leq 1
 \end{aligned}$$

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

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

$$x * A + y * B + m \leq 1.0 \quad (1)$$

$$x * A + y * B \leq x * \max(A, B) + (g-x) * \max(A, B) \leq \max(A, B)$$

$$x * A + (g-x) * B + m \leq \max(A, B) + m \leq 1.0 \quad (2)$$

If A + m ≤ 1.0 and B + m ≤ 1.0 can be proven, then “x * A + y * B + m ≤ 1.0”. Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

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

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

- i. A and m are decoupled based on the SPLSR criteria, and
- ii. y * B + m ≤ 1.0, and
- iii. x% * A + y * B ≤ 1.0

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

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



17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	4	5	8	17	1+8+17	1+4+17	1+5
		WWAN	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 16+7	WLAN5/6GHz Ant 6+17	Bluetooth Ant 16	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant 0	Right Cheek	0.273	0.071	0.237	0.307	0.097	0.68	0.44	0.51
	Right Tilted	0.188	0.101	0.296	0.326	0.108	0.62	0.40	0.48
	Left Cheek	0.400	0.350	0.495	0.347	0.155	0.90	0.91	0.90
	Left Tilted	0.258	0.147	0.322	0.409	0.139	0.81	0.54	0.58
Ant 1	Right Cheek	0.684	0.071	0.237	0.307	0.097	1.09	0.85	0.92
	Right Tilted	0.143	0.101	0.296	0.326	0.108	0.58	0.35	0.44
	Left Cheek	0.953	0.350	0.495	0.347	0.155	1.46	1.46	1.45
	Left Tilted	0.168	0.147	0.322	0.409	0.139	0.72	0.45	0.49
Ant 4	Right Cheek	1.080	0.071	0.237	0.307	0.097	1.48	1.25	1.32
	Right Tilted	0.977	0.101	0.296	0.326	0.108	1.41	1.19	1.27
	Left Cheek	0.647	0.350	0.495	0.347	0.155	1.15	1.15	1.14
	Left Tilted	0.719	0.147	0.322	0.409	0.139	1.27	1.01	1.04
Ant 2	Right Cheek	0.315	0.071	0.237	0.307	0.097	0.72	0.48	0.55
	Right Tilted	0.125	0.101	0.296	0.326	0.108	0.56	0.33	0.42
	Left Cheek	0.206	0.350	0.495	0.347	0.155	0.71	0.71	0.70
	Left Tilted	0.186	0.147	0.322	0.409	0.139	0.73	0.47	0.51
Ant 5	Right Cheek	0.871	0.071	0.237	0.307	0.097	1.28	1.04	1.11
	Right Tilted	0.199	0.101	0.296	0.326	0.108	0.63	0.41	0.50
	Left Cheek	1.022	0.350	0.495	0.347	0.155	1.52	1.53	1.52
	Left Tilted	0.307	0.147	0.322	0.409	0.139	0.86	0.59	0.63
Ant 3	Right Cheek	1.090	0.071	0.237	0.307	0.097	1.49	1.26	1.33
	Right Tilted	0.269	0.101	0.296	0.326	0.108	0.70	0.48	0.57
	Left Cheek	0.314	0.350	0.495	0.347	0.155	0.82	0.82	0.81
	Left Tilted	0.108	0.147	0.322	0.409	0.139	0.66	0.39	0.43
Ant 6	Right Cheek	0.580	0.071	0.237	0.307	0.097	0.98	0.75	0.82
	Right Tilted	0.890	0.101	0.296	0.326	0.108	1.32	1.10	1.19
	Left Cheek	0.816	0.350	0.495	0.347	0.155	1.32	1.32	1.31
	Left Tilted	1.017	0.147	0.322	0.409	0.139	1.57	1.30	1.34
Ant 8	Right Cheek	1.091	0.071	0.237	0.307	0.097	1.50	1.26	1.33
	Right Tilted	0.969	0.101	0.296	0.326	0.108	1.40	1.18	1.27
	Left Cheek	0.490	0.350	0.495	0.347	0.155	0.99	1.00	0.99
	Left Tilted	0.503	0.147	0.322	0.409	0.139	1.05	0.79	0.83
Ant 7	Right Cheek	0.233	0.071	0.237	0.307	0.097	0.64	0.40	0.47
	Right Tilted	0.178	0.101	0.296	0.326	0.108	0.61	0.39	0.47
	Left Cheek	1.082	0.350	0.495	0.347	0.155	1.58	1.59	1.58
	Left Tilted	0.397	0.147	0.322	0.409	0.139	0.95	0.68	0.72
Ant 9	Right Cheek	0.815	0.071	0.237	0.307	0.097	1.22	0.98	1.05
	Right Tilted	0.426	0.101	0.296	0.326	0.108	0.86	0.64	0.72
	Left Cheek	0.387	0.350	0.495	0.347	0.155	0.89	0.89	0.88
	Left Tilted	0.228	0.147	0.322	0.409	0.139	0.78	0.51	0.55



Exposure Position	4	8	17	8+17	4+17
	WLAN2.4GHz Ant 7	WLAN5/6GHz Ant 6+17	Bluetooth Ant 16	Summed	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	0.135	0.744	0.420	1.16	0.56
Right Tilted	0.237	0.959	0.420	1.38	0.66
Left Cheek	0.982	1.082	0.495	1.58	1.48
Left Tilted	0.388	1.082	0.447	1.53	0.84

WWAN Band	Exposure Position	1	5	8	1+5+8
		WWAN	WLAN2.4GHz Ant 16+7	WLAN5/6GHz Ant 6+17	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant 0	Right Cheek	0.273	0.120	0.202	0.60
	Right Tilted	0.188	0.151	0.250	0.59
	Left Cheek	0.400	0.239	0.263	0.90
	Left Tilted	0.258	0.164	0.308	0.73
Ant 1	Right Cheek	0.684	0.120	0.202	1.01
	Right Tilted	0.143	0.151	0.250	0.54
	Left Cheek	0.953	0.239	0.263	1.46
	Left Tilted	0.168	0.164	0.308	0.64
Ant 4	Right Cheek	1.080	0.120	0.202	1.40
	Right Tilted	0.977	0.151	0.250	1.38
	Left Cheek	0.647	0.239	0.263	1.15
	Left Tilted	0.719	0.164	0.308	1.19
Ant 2	Right Cheek	0.315	0.120	0.202	0.64
	Right Tilted	0.125	0.151	0.250	0.53
	Left Cheek	0.206	0.239	0.263	0.71
	Left Tilted	0.186	0.164	0.308	0.66
Ant 5	Right Cheek	0.871	0.120	0.202	1.19
	Right Tilted	0.199	0.151	0.250	0.60
	Left Cheek	1.022	0.239	0.263	1.52
	Left Tilted	0.307	0.164	0.308	0.78
Ant 3	Right Cheek	1.090	0.120	0.202	1.41
	Right Tilted	0.269	0.151	0.250	0.67
	Left Cheek	0.314	0.239	0.263	0.82
	Left Tilted	0.108	0.164	0.308	0.58
Ant 6	Right Cheek	0.580	0.120	0.202	0.90
	Right Tilted	0.890	0.151	0.250	1.29
	Left Cheek	0.816	0.239	0.263	1.32
	Left Tilted	1.017	0.164	0.308	1.49
Ant 8	Right Cheek	1.091	0.120	0.202	1.41
	Right Tilted	0.969	0.151	0.250	1.37
	Left Cheek	0.490	0.239	0.263	0.99
	Left Tilted	0.503	0.164	0.308	0.98
Ant 7	Right Cheek	0.233	0.120	0.202	0.56
	Right Tilted	0.178	0.151	0.250	0.58
	Left Cheek	1.082	0.239	0.263	1.58
	Left Tilted	0.397	0.164	0.308	0.87
Ant 9	Right Cheek	0.815	0.120	0.202	1.14
	Right Tilted	0.426	0.151	0.250	0.83
	Left Cheek	0.387	0.239	0.263	0.89
	Left Tilted	0.228	0.164	0.308	0.70



Exposure Position	5	8	5+8
	WLAN2.4GHz Ant 16+7	WLAN5/6GHz Ant 6+17	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	0.120	0.202	0.32
Right Tilted	0.151	0.250	0.40
Left Cheek	0.239	0.263	0.50
Left Tilted	0.164	0.308	0.47

17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	4	5	8	17	1+8+17	1+4+17	1+5
		WWAN	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 16+7	WLAN5GHz Ant 6+17	Bluetooth Ant 16	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant 0	Front	0.379	0.300	0.350	0.457	0.104	0.94	0.78	0.73
	Back	0.616	0.353	0.494	0.354	0.160	1.13	1.13	1.11
	Left side	0.449					0.45	0.45	0.45
	Right side		0.748	0.890	0.536	0.014	0.55	0.76	0.89
	Top side		0.123	0.418	0.662	0.173	0.84	0.30	0.42
	Bottom side	0.297					0.30	0.30	0.30
Ant 1	Front	0.557	0.300	0.350	0.457	0.104	1.12	0.96	0.91
	Back	0.698	0.353	0.494	0.354	0.160	1.21	1.21	1.19
	Left side	0.937					0.94	0.94	0.94
	Right side		0.748	0.890	0.536	0.014	0.55	0.76	0.89
	Top side		0.123	0.418	0.662	0.173	0.84	0.30	0.42
	Bottom side						0.00	0.00	0.00
Ant 4	Front	0.295	0.300	0.350	0.457	0.104	0.86	0.70	0.65
	Back	0.578	0.353	0.494	0.354	0.160	1.09	1.09	1.07
	Left side	0.262					0.26	0.26	0.26
	Right side		0.748	0.890	0.536	0.014	0.55	0.76	0.89
	Top side	0.568	0.123	0.418	0.662	0.173	1.40	0.86	0.99
	Bottom side						0.00	0.00	0.00
Ant 2	Front	0.568	0.300	0.350	0.457	0.104	1.13	0.97	0.92
	Back	0.783	0.353	0.494	0.354	0.160	1.30	1.30	1.28
	Left side						0.00	0.00	0.00
	Right side	0.373	0.748	0.890	0.536	0.014	0.92	1.14	1.26
	Top side		0.123	0.418	0.662	0.173	0.84	0.30	0.42
	Bottom side	1.062					1.06	1.06	1.06
Ant 5	Front	0.298	0.300	0.350	0.457	0.104	0.86	0.70	0.65
	Back	0.427	0.353	0.494	0.354	0.160	0.94	0.94	0.92
	Left side						0.00	0.00	0.00
	Right side	0.652	0.748	0.890	0.536	0.014	1.20	1.41	1.54
	Top side		0.123	0.418	0.662	0.173	0.84	0.30	0.42
	Bottom side						0.00	0.00	0.00
Ant 3	Front	0.201	0.300	0.350	0.457	0.104	0.76	0.61	0.55
	Back	0.450	0.353	0.494	0.354	0.160	0.96	0.96	0.94
	Left side	0.587					0.59	0.59	0.59
	Right side		0.748	0.890	0.536	0.014	0.55	0.76	0.89
	Top side	0.061	0.123	0.418	0.662	0.173	0.90	0.36	0.48
	Bottom side						0.00	0.00	0.00
Ant 6	Front	0.215	0.300	0.350	0.457	0.104	0.78	0.62	0.57
	Back	0.534	0.353	0.494	0.354	0.160	1.05	1.05	1.03
	Left side						0.00	0.00	0.00
	Right side	0.092	0.748	0.890	0.536	0.014	0.64	0.85	0.98



	Top side	0.747	0.123	0.418	0.662	0.173	1.58	1.04	1.17
	Bottom side						0.00	0.00	0.00
Ant 8	Front	0.265	0.300	0.350	0.457	0.104	0.83	0.67	0.62
	Back	0.490	0.353	0.494	0.354	0.160	1.00	1.00	0.98
	Left side	0.297					0.30	0.30	0.30
	Right side		0.748	0.890	0.536	0.014	0.55	0.76	0.89
	Top side	0.398	0.123	0.418	0.662	0.173	1.23	0.69	0.82
	Bottom side						0.00	0.00	0.00
Ant 7	Front	0.194	0.300	0.350	0.457	0.104	0.76	0.60	0.54
	Back	0.256	0.353	0.494	0.354	0.160	0.77	0.77	0.75
	Left side						0.00	0.00	0.00
	Right side	0.429	0.748	0.890	0.536	0.014	0.98	1.19	1.32
	Top side	0.065	0.123	0.418	0.662	0.173	0.90	0.36	0.48
	Bottom side						0.00	0.00	0.00
Ant 9	Front	0.090	0.300	0.350	0.457	0.104	0.65	0.49	0.44
	Back	1.079	0.353	0.494	0.354	0.160	1.59	1.59	1.57
	Left side	0.234					0.23	0.23	0.23
	Right side		0.748	0.890	0.536	0.014	0.55	0.76	0.89
	Top side		0.123	0.418	0.662	0.173	0.84	0.30	0.42
	Bottom side						0.00	0.00	0.00

WWAN Band	Exposure Position	1	5	8	1+5+8
		WWAN	WLAN2.4GHz Ant 16+7	WLAN5GHz Ant 6+17	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant 0	Front	0.379	0.203	0.378	0.96
	Back	0.616	0.251	0.262	1.13
	Left side	0.449			0.45
	Right side		0.429	0.412	0.84
	Top side		0.224	0.518	0.74
	Bottom side	0.297			0.30
Ant 1	Front	0.557	0.203	0.378	1.14
	Back	0.698	0.251	0.262	1.21
	Left side	0.937			0.94
	Right side		0.429	0.412	0.84
	Top side		0.224	0.518	0.74
	Bottom side				0.00
Ant 4	Front	0.295	0.203	0.378	0.88
	Back	0.578	0.251	0.262	1.09
	Left side	0.262			0.26
	Right side		0.429	0.412	0.84
	Top side	0.568	0.224	0.518	1.31
	Bottom side				0.00
Ant 2	Front	0.568	0.203	0.378	1.15
	Back	0.783	0.251	0.262	1.30
	Left side				0.00
	Right side	0.373	0.429	0.412	1.21
	Top side		0.224	0.518	0.74
	Bottom side	1.062			1.06
Ant 5	Front	0.298	0.203	0.378	0.88
	Back	0.427	0.251	0.262	0.94
	Left side				0.00
	Right side	0.652	0.429	0.412	1.49
	Top side		0.224	0.518	0.74
	Bottom side				0.00
Ant 3	Front	0.201	0.203	0.378	0.78
	Back	0.450	0.251	0.262	0.96



	Left side	0.587			0.59
	Right side		0.429	0.412	0.84
	Top side	0.061	0.224	0.518	0.80
	Bottom side				0.00
Ant 6	Front	0.215	0.203	0.378	0.80
	Back	0.534	0.251	0.262	1.05
	Left side				0.00
	Right side	0.092	0.429	0.412	0.93
	Top side	0.747	0.224	0.518	1.49
	Bottom side				0.00
Ant 8	Front	0.265	0.203	0.378	0.85
	Back	0.490	0.251	0.262	1.00
	Left side	0.297			0.30
	Right side		0.429	0.412	0.84
	Top side	0.398	0.224	0.518	1.14
	Bottom side				0.00
Ant 7	Front	0.194	0.203	0.378	0.78
	Back	0.256	0.251	0.262	0.77
	Left side				0.00
	Right side	0.429	0.429	0.412	1.27
	Top side	0.065	0.224	0.518	0.81
	Bottom side				0.00
Ant 9	Front	0.090	0.203	0.378	0.67
	Back	1.079	0.251	0.262	1.59
	Left side	0.234			0.23
	Right side		0.429	0.412	0.84
	Top side		0.224	0.518	0.74
	Bottom side				0.00

Exposure Position	4	5	8	17	8+17	4+17	5+8
	WLAN2.4GHz Ant 7 1g SAR (W/kg)	WLAN2.4GHz Ant 16+7 1g SAR (W/kg)	WLAN5GHz Ant 6+17 1g SAR (W/kg)	Bluetooth Ant 16 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.300	0.350	0.457	0.104	0.56	0.40	0.81
Back	0.353	0.494	0.354	0.160	0.51	0.51	0.85
Left side					0.00	0.00	0.00
Right side	0.748	0.890	0.536	0.014	0.55	0.76	1.43
Top side	0.123	0.418	0.662	0.173	0.84	0.30	1.08
Bottom side					0.00	0.00	0.00



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	4	5	8	17	1+8+17	1+4+17	1+5
		WWAN	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 16+7	WLAN5/6GHz Ant 6+17	Bluetooth Ant 16	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant 0	Front	0.280	0.182	0.207	0.179	0.017	0.48	0.48	0.49
	Back	0.405	0.226	0.312	0.234	0.085	0.72	0.72	0.72
Ant 1	Front	0.556	0.182	0.207	0.179	0.017	0.75	0.76	0.76
	Back	0.877	0.226	0.312	0.234	0.085	1.20	1.19	1.19
Ant 4	Front	0.590	0.182	0.207	0.179	0.017	0.79	0.79	0.80
	Back	0.884	0.226	0.312	0.234	0.085	1.20	1.20	1.20
Ant 2	Front	0.345	0.182	0.207	0.179	0.017	0.54	0.54	0.55
	Back	0.548	0.226	0.312	0.234	0.085	0.87	0.86	0.86
Ant 5	Front	0.263	0.182	0.207	0.179	0.017	0.46	0.46	0.47
	Back	0.357	0.226	0.312	0.234	0.085	0.68	0.67	0.67
Ant 3	Front	0.290	0.182	0.207	0.179	0.017	0.49	0.49	0.50
	Back	0.875	0.226	0.312	0.234	0.085	1.19	1.19	1.19
Ant 6	Front	0.351	0.182	0.207	0.179	0.017	0.55	0.55	0.56
	Back	0.656	0.226	0.312	0.234	0.085	0.98	0.97	0.97
Ant 8	Front	0.299	0.182	0.207	0.179	0.017	0.50	0.50	0.51
	Back	0.556	0.226	0.312	0.234	0.085	0.88	0.87	0.87
Ant 7	Front	0.245	0.182	0.207	0.179	0.017	0.44	0.44	0.45
	Back	0.298	0.226	0.312	0.234	0.085	0.62	0.61	0.61
Ant 9	Front	0.067	0.182	0.207	0.179	0.017	0.26	0.27	0.27
	Back	1.029	0.226	0.312	0.234	0.085	1.35	1.34	1.34

WWAN Band	Exposure Position	1	5	8	1+5+8
		WWAN	WLAN2.4GHz Ant 16+7	WLAN5/6GHz Ant 6+17	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant 0	Front	0.280	0.207	0.179	0.67
	Back	0.405	0.312	0.234	0.95
Ant 1	Front	0.556	0.207	0.179	0.94
	Back	0.877	0.312	0.234	1.42
Ant 4	Front	0.590	0.207	0.179	0.98
	Back	0.884	0.312	0.234	1.43
Ant 2	Front	0.345	0.207	0.179	0.73
	Back	0.548	0.312	0.234	1.09
Ant 5	Front	0.263	0.207	0.179	0.65
	Back	0.357	0.312	0.234	0.90
Ant 3	Front	0.290	0.207	0.179	0.68
	Back	0.875	0.312	0.234	1.42
Ant 6	Front	0.351	0.207	0.179	0.74
	Back	0.656	0.312	0.234	1.20
Ant 8	Front	0.299	0.207	0.179	0.69
	Back	0.556	0.312	0.234	1.10
Ant 7	Front	0.245	0.207	0.179	0.63
	Back	0.298	0.312	0.234	0.84
Ant 9	Front	0.067	0.207	0.179	0.45
	Back	1.029	0.312	0.234	1.58

Exposure Position	4	5	8	17	8+17	4+17	5+8
	WLAN2.4GHz Ant 7	WLAN2.4GHz Ant 16+7	WLAN5/6GHz Ant 6+17	Bluetooth Ant 16	Summed	Summed	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.182	0.207	0.302	0.017	0.32	0.20	0.51
Back	0.226	0.312	0.523	0.085	0.61	0.31	0.84



17.5 Product specific 10g SAR Exposure Conditions

Remark:

- For 2.4GHz/Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	8	9	1+8+9
		WWAN	WLAN5/6GHz Ant 6+17	NFC	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Ant 0	Front		1.010		1.01
	Back		0.642	0.006	0.65
	Left side				0.00
	Right side		1.242		1.24
	Top side		1.305		1.31
	Bottom side				0.00
Ant 1	Front		1.010		1.01
	Back		0.642	0.006	0.65
	Left side	2.185			2.19
	Right side		1.242		1.24
	Top side		1.305		1.31
	Bottom side				0.00
Ant 4	Front	1.358	1.010		2.37
	Back	1.953	0.642	0.006	2.60
	Left side				0.00
	Right side		1.242		1.24
	Top side	2.484	1.305		3.79
	Bottom side				0.00
Ant 2	Front		1.010		1.01
	Back		0.642	0.006	0.65
	Left side				0.00
	Right side		1.242		1.24
	Top side		1.305		1.31
	Bottom side				0.00
Ant 5	Front		1.010		1.01
	Back	1.733	0.642	0.006	2.38
	Left side				0.00
	Right side	2.125	1.242		3.37
	Top side		1.305		1.31
	Bottom side				0.00
Ant 3	Front		1.010		1.01
	Back	2.317	0.642	0.006	2.97
	Left side	1.983			1.98
	Right side		1.242		1.24
	Top side		1.305		1.31
	Bottom side				0.00
Ant 6	Front		1.010		1.01
	Back	0.620	0.642	0.006	1.27
	Left side				0.00
	Right side		1.242		1.24
	Top side	2.409	1.305		3.71
	Bottom side				0.00
Ant 8	Front	0.705	1.010		1.72
	Back	1.638	0.642	0.006	2.29
	Left side	1.592			1.59
	Right side		1.242		1.24
	Top side	2.349	1.305		3.65
	Bottom side				0.00



Ant 7	Front		1.010		1.01
	Back	0.698	0.642	0.006	1.35
	Left side				0.00
	Right side	2.513	1.242		3.76
	Top side		1.305		1.31
	Bottom side				0.00
Ant 9	Front		1.010		1.01
	Back	2.554	0.642	0.006	3.20
	Left side				0.00
	Right side		1.242		1.24
	Top side		1.305		1.31
	Bottom side				0.00

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18. Uncertainty Assessment

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

19. References

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

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