



FCC SAR TEST REPORT

Report No. : FA660814

	LTE Band 25	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	26140	1860	14.75	16.30	1.429	-	-	-0.10	0.824	1.177
	LTE Band 25	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	26590	1905	14.74	16.30	1.432	-	-	0.15	0.816	1.169
	LTE Band 25	20M	QPSK	100	0	Back Top	0mm	Ant 3	DSI 12	Open	26340	1880	14.72	16.30	1.439	-	-	0.10	0.722	1.039
	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	26340	1880	14.79	16.30	1.416	-	-	-0.09	0.867	1.228
103	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	26140	1860	14.78	16.30	1.419	-	-	-0.04	0.907	1.287
	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	26590	1905	14.77	16.30	1.422	-	-	-0.12	0.851	1.210
	LTE Band 25	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	26340	1880	14.76	16.30	1.426	-	-	0.07	0.879	1.253
	LTE Band 25	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	26140	1860	14.75	16.30	1.429	-	-	0.19	0.854	1.220
	LTE Band 25	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	26590	1905	14.74	16.30	1.432	-	-	-0.09	0.868	1.243
	LTE Band 25	20M	QPSK	100	0	Top Side	0mm	Ant 3	DSI 12	Open	26340	1880	14.72	16.30	1.439	-	-	0.17	0.831	1.196
	LTE Band 25	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	26340	1880	23.36	24.00	1.159	-	-	-0.19	0.885	1.026
	LTE Band 25	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	26140	1860	23.04	24.00	1.247	-	-	0.02	0.851	1.061
	LTE Band 25	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	26590	1905	23.23	24.00	1.194	-	-	0.05	0.843	1.007
	LTE Band 25	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	26340	1880	22.33	23.00	1.167	-	-	-0.17	0.876	1.022
	LTE Band 25	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	26140	1860	22.00	23.00	1.259	-	-	0.06	0.823	1.036
	LTE Band 25	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	26590	1905	22.19	23.00	1.205	-	-	0.02	0.813	0.980
	LTE Band 25	20M	QPSK	100	0	Back top	12mm	Ant 3	DSI 4	Open	26340	1880	22.08	23.00	1.236	-	-	0.03	0.805	0.995
	LTE Band 25	20M	QPSK	1	0	Top Side	15mm	Ant 3	DSI 4	Open	26340	1880	23.36	24.00	1.159	-	-	0.00	0.626	0.726
	LTE Band 25	20M	QPSK	50	0	Top Side	15mm	Ant 3	DSI 4	Open	26340	1880	22.33	23.00	1.167	-	-	0.03	0.633	0.739
	LTE Band 25	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	26340	1880	15.03	16.70	1.469	-	-	-0.10	0.768	1.128
	LTE Band 25	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	26140	1860	15.01	16.70	1.476	-	-	0.08	0.673	0.993
	LTE Band 25	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	26590	1905	14.98	16.70	1.486	-	-	0.07	0.746	1.109
	LTE Band 25	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	26340	1880	15.01	16.70	1.476	-	-	0.13	0.699	1.032
	LTE Band 25	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	26140	1860	14.97	16.70	1.489	-	-	0.06	0.635	0.946
	LTE Band 25	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	26590	1905	14.98	16.70	1.486	-	-	0.19	0.592	0.880
	LTE Band 25	20M	QPSK	100	0	Back Right	0mm	Ant 4	DSI 12	Open	26340	1880	14.96	16.70	1.493	-	-	-0.13	0.604	0.902
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	26340	1880	15.03	16.70	1.469	-	-	-0.04	0.864	1.269
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	26140	1860	15.01	16.70	1.476	-	-	0.03	0.837	1.235
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	26590	1905	14.98	16.70	1.486	-	-	-0.16	0.799	1.187
	LTE Band 25	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	26340	1880	15.01	16.70	1.476	-	-	-0.09	0.672	0.992
	LTE Band 25	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	26140	1860	14.97	16.70	1.489	-	-	0.11	0.609	0.907
	LTE Band 25	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	26590	1905	14.98	16.70	1.486	-	-	-0.15	0.642	0.954
	LTE Band 25	20M	QPSK	100	0	Right Side	0mm	Ant 4	DSI 12	Open	26340	1880	14.96	16.70	1.493	-	-	-0.07	0.672	1.003
	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 12	Open	26340	1880	15.03	16.70	1.469	-	-	-0.17	0.123	0.181
	LTE Band 25	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 12	Open	26340	1880	15.01	16.70	1.476	-	-	0.15	0.100	0.148
	LTE Band 25	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	26340	1880	21.67	23.00	1.358	-	-	-0.05	0.466	0.633
	LTE Band 25	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	26340	1880	20.68	22.00	1.355	-	-	-0.05	0.433	0.587
	LTE Band 25	20M	QPSK	1	0	Right Side	15mm	Ant 4	DSI 4	Open	26340	1880	21.67	23.00	1.358	-	-	0.13	0.405	0.550
	LTE Band 25	20M	QPSK	50	0	Right Side	15mm	Ant 4	DSI 4	Open	26340	1880	20.68	22.00	1.355	-	-	0.14	0.323	0.438
	LTE Band 25	20M	QPSK	1	0	Top Side	9mm	Ant 4	DSI 4	Open	26340	1880	21.67	23.00	1.358	-	-	0.10	0.133	0.181
	LTE Band 25	20M	QPSK	50	0	Top Side	9mm	Ant 4	DSI 4	Open	26340	1880	20.68	22.00	1.355	-	-	0.11	0.109	0.148
	LTE Band 66	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	132322	1745	14.95	15.90	1.245	-	-	0.12	1.000	1.245
	LTE Band 66	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	132072	1720	14.81	15.90	1.285	-	-	-0.05	0.958	1.231
	LTE Band 66	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	132572	1770	14.79	15.90	1.291	-	-	0.13	0.922	1.190
	LTE Band 66	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	132322	1745	14.90	15.90	1.259	-	-	0.18	0.917	1.155
	LTE Band 66	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	132072	1720	14.87	15.90	1.268	-	-	0.17	0.941	1.193
	LTE Band 66	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	132572	1770	14.87	15.90	1.268	-	-	-0.12	0.977	1.239
	LTE Band 66	20M	QPSK	100	0	Back Top	0mm	Ant 3	DSI 12	Open	132072	1720	14.90	15.90	1.259	-	-	0.16	0.910	1.146
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	132322	1745	14.95	15.90	1.245	-	-	-0.03	0.947	1.179
104	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	132072	1720	14.81	15.90	1.285	-	-	-0.08	1.020	1.311
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	132572	1770	14.79	15.90	1.291	-	-	0.01	0.832	1.074
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	132322	1745	14.90	15.90	1.259	-	-	-0.04	0.824	1.037
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	132072	1720	14.87	15.90	1.268	-	-	-0.09	0.914	1.159
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	132572	1770	14.87	15.90	1.268	-	-	0.15	0.865	1.097
	LTE Band 66	20M	QPSK	100	0	Top Side	0mm	Ant 3	DSI 12	Open	132072	1720	14.90	15.90	1.259	-	-	0.03	0.922	1.161
	LTE Band 66	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	132322	1745	23.38	24.00	1.153	-	-	0.15	0.986	1.137



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	LTE Band 66	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	132072	1720	23.24	24.00	1.191	-	-	0.02	0.953	1.135
	LTE Band 66	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	132572	1770	23.18	24.00	1.208	-	-	0.03	0.912	1.102
	LTE Band 66	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	132322	1745	22.20	23.00	1.202	-	-	-0.16	0.991	1.191
	LTE Band 66	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	132072	1720	22.09	23.00	1.233	-	-	0.02	0.859	1.059
	LTE Band 66	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	132572	1770	22.12	23.00	1.225	-	-	0.01	0.851	1.043
	LTE Band 66	20M	QPSK	100	0	Back top	12mm	Ant 3	DSI 4	Open	132322	1745	22.12	23.00	1.225	-	-	0.03	0.843	1.033
	LTE Band 66	20M	QPSK	1	0	Top Side	15mm	Ant 3	DSI 4	Open	132322	1745	23.38	24.00	1.153	-	-	0.18	0.888	1.024
	LTE Band 66	20M	QPSK	1	0	Top Side	15mm	Ant 3	DSI 4	Open	132072	1720	23.24	24.00	1.191	-	-	0.02	0.853	1.016
	LTE Band 66	20M	QPSK	1	0	Top Side	15mm	Ant 3	DSI 4	Open	132572	1770	23.18	24.00	1.208	-	-	0.01	0.845	1.021
	LTE Band 66	20M	QPSK	50	0	Top Side	15mm	Ant 3	DSI 4	Open	132322	1745	22.20	23.00	1.202	-	-	0.09	0.775	0.932
	LTE Band 66	20M	QPSK	50	0	Top Side	15mm	Ant 3	DSI 4	Open	132072	1720	22.09	23.00	1.233	-	-	0.02	0.715	0.882
	LTE Band 66	20M	QPSK	50	0	Top Side	15mm	Ant 3	DSI 4	Open	132572	1770	22.12	23.00	1.225	-	-	0.03	0.725	0.888
	LTE Band 66	20M	QPSK	100	0	Top Side	15mm	Ant 3	DSI 4	Open	132322	1745	22.12	23.00	1.225	-	-	0.01	0.605	0.741
	LTE Band 66	20M	QPSK	1	99	Top Side	0mm	Ant 3	DSI 12	Open	132072+132270	1720+1739.8	14.85	15.90	1.274	-	-	0.03	0.956	1.218
	LTE Band 66	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	132322	1745	16.12	16.50	1.091	-	-	0.05	0.931	1.016
	LTE Band 66	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	132072	1720	16.00	16.50	1.122	-	-	-0.16	0.925	1.038
	LTE Band 66	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	132572	1770	16.09	16.50	1.099	-	-	-0.19	1.140	1.253
	LTE Band 66	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	132322	1745	16.05	16.50	1.109	-	-	0.19	0.902	1.000
	LTE Band 66	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	132072	1720	16.04	16.50	1.112	-	-	-0.05	0.942	1.048
	LTE Band 66	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	132572	1770	16.01	16.50	1.119	-	-	-0.16	0.902	1.009
	LTE Band 66	20M	QPSK	100	0	Back Right	0mm	Ant 4	DSI 12	Open	132322	1745	15.99	16.50	1.125	-	-	-0.11	0.953	1.072
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	132322	1745	16.12	16.50	1.091	-	-	-0.08	0.587	0.640
	LTE Band 66	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	132322	1745	16.05	16.50	1.109	-	-	0.16	0.531	0.589
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 12	Open	132322	1745	16.12	16.50	1.091	-	-	0.00	0.113	0.123
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 12	Open	132322	1745	16.05	16.50	1.109	-	-	-0.14	0.108	0.120
	LTE Band 66	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	132322	1745	21.70	23.00	1.349	-	-	-0.12	0.852	1.149
	LTE Band 66	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	132072	1720	21.69	23.00	1.352	-	-	0.02	0.825	1.115
	LTE Band 66	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	132572	1770	21.65	23.00	1.365	-	-	0.03	0.821	1.121
	LTE Band 66	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	132322	1745	20.69	22.00	1.352	-	-	-0.16	0.751	1.015
	LTE Band 66	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	132072	1720	20.63	22.00	1.371	-	-	0.05	0.725	0.994
	LTE Band 66	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	132572	1770	20.65	22.00	1.365	-	-	0.06	0.721	0.984
	LTE Band 66	20M	QPSK	100	0	Back Right	14mm	Ant 4	DSI 4	Open	132322	1745	20.63	22.00	1.371	-	-	0.03	0.698	0.957
	LTE Band 66	20M	QPSK	1	0	Right Side	15mm	Ant 4	DSI 4	Open	132322	1745	21.70	23.00	1.349	-	-	-0.10	0.419	0.565
	LTE Band 66	20M	QPSK	50	0	Right Side	15mm	Ant 4	DSI 4	Open	132322	1745	20.69	22.00	1.352	-	-	0.06	0.339	0.458
	LTE Band 66	20M	QPSK	1	0	Top Side	9mm	Ant 4	DSI 4	Open	132322	1745	21.70	23.00	1.349	-	-	0.08	0.082	0.111
	LTE Band 66	20M	QPSK	50	0	Top Side	9mm	Ant 4	DSI 4	Open	132322	1745	20.69	22.00	1.352	-	-	0.18	0.065	0.088
	LTE Band 66	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	132572+132374	1770+1750.2	16.09	16.50	1.099	-	-	0.03	0.974	1.070
	LTE Band 41	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	40620	2593	13.85	15.30	1.396	62.9	1.006	-0.06	0.681	0.956
	LTE Band 41	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	39750	2506	13.75	15.30	1.429	62.9	1.006	0.00	0.656	0.943
	LTE Band 41	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	40185	2549.5	13.78	15.30	1.419	62.9	1.006	0.01	0.661	0.944
	LTE Band 41	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	41055	2636.5	13.84	15.30	1.400	62.9	1.006	-0.01	0.650	0.915
	LTE Band 41	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 12	Open	41490	2680	13.82	15.30	1.406	62.9	1.006	0.00	0.620	0.877
	LTE Band 41	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	40620	2593	13.84	15.30	1.400	62.9	1.006	0.04	0.655	0.923
	LTE Band 41	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	39750	2506	13.75	15.30	1.429	62.9	1.006	0.01	0.662	0.952
	LTE Band 41	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	40185	2549.5	13.78	15.30	1.419	62.9	1.006	0.00	0.686	0.979
	LTE Band 41	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	41055	2636.5	13.78	15.30	1.419	62.9	1.006	0.14	0.679	0.969
	LTE Band 41	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 12	Open	41490	2680	13.79	15.30	1.416	62.9	1.006	-0.03	0.673	0.959
	LTE Band 41	20M	QPSK	100	0	Back Top	0mm	Ant 3	DSI 12	Open	40620	2593	13.81	15.30	1.409	62.9	1.006	0.11	0.674	0.955
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	40620	2593	13.85	15.30	1.396	62.9	1.006	-0.01	0.678	0.952
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	39750	2506	13.75	15.30	1.429	62.9	1.006	-0.18	0.768	1.104
105	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	40185	2549.5	13.78	15.30	1.419	62.9	1.006	0.11	0.911	1.300
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	41055	2636.5	13.84	15.30	1.400	62.9	1.006	-0.17	0.661	0.931
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	41490	2680	13.82	15.30	1.406	62.9	1.006	-0.16	0.626	0.885
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	40620	2593	13.84	15.30	1.400	62.9	1.006	0.17	0.678	0.955
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	39750	2506	13.75	15.30	1.429	62.9	1.006	0.09	0.742	1.067
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	40185	2549.5	13.78	15.30	1.419	62.9	1.006	-0.11	0.851	1.215



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LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	41055	2636.5	13.78	15.30	1.419	62.9	1.006	0.10	0.686	0.979
LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 12	Open	41490	2680	13.79	15.30	1.416	62.9	1.006	-0.10	0.651	0.927
LTE Band 41	20M	QPSK	100	0	Top Side	0mm	Ant 3	DSI 12	Open	40620	2593	13.81	15.30	1.409	62.9	1.006	-0.03	0.678	0.961
LTE Band 41	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	40620	2593	23.47	24.00	1.130	62.9	1.006	0.12	0.883	1.004
LTE Band 41	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	39750	2506	23.37	24.00	1.156	62.9	1.006	0.03	0.825	0.959
LTE Band 41	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	40185	2549.5	23.40	24.00	1.148	62.9	1.006	0.05	0.806	0.931
LTE Band 41	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	41055	2636.5	23.42	24.00	1.143	62.9	1.006	0.02	0.805	0.926
LTE Band 41	20M	QPSK	1	0	Back top	12mm	Ant 3	DSI 4	Open	41490	2680	23.27	24.00	1.183	62.9	1.006	0.01	0.789	0.939
LTE Band 41	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	40620	2593	22.60	23.00	1.096	62.9	1.006	0.10	0.765	0.843
LTE Band 41	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	39750	2506	22.44	23.00	1.138	62.9	1.006	0.06	0.752	0.861
LTE Band 41	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	40185	2549.5	22.46	23.00	1.132	62.9	1.006	0.02	0.750	0.854
LTE Band 41	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	41055	2636.5	22.49	23.00	1.125	62.9	1.006	0.01	0.786	0.890
LTE Band 41	20M	QPSK	50	0	Back top	12mm	Ant 3	DSI 4	Open	41490	2680	22.37	23.00	1.156	62.9	1.006	0.03	0.751	0.873
LTE Band 41	20M	QPSK	100	0	Back top	12mm	Ant 3	DSI 4	Open	40620	2593	22.52	23.00	1.117	62.9	1.006	0.03	0.761	0.855
LTE Band 41	20M	QPSK	1	0	Top Side	15mm	Ant 3	DSI 4	Open	40620	2593	23.47	24.00	1.130	62.9	1.006	0.15	0.475	0.540
LTE Band 41	20M	QPSK	50	0	Top Side	15mm	Ant 3	DSI 4	Open	40620	2593	22.60	23.00	1.096	62.9	1.006	0.15	0.455	0.502
LTE Band 41 HPUE	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	40620	2593	15.61	16.90	1.346	42.9	1.009	0.03	0.695	0.944
LTE Band 41 HPUE	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	39750	2506	15.58	16.90	1.355	42.9	1.009	0.02	0.755	1.032
LTE Band 41 HPUE	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	40185	2549.5	15.50	16.90	1.380	42.9	1.009	0.03	0.899	1.252
LTE Band 41 HPUE	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	41055	2636.5	15.51	16.90	1.377	42.9	1.009	-0.17	0.647	0.899
LTE Band 41 HPUE	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 12	Open	41490	2680	15.53	16.90	1.371	42.9	1.009	-0.02	0.617	0.854
LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 3	DSI 12	Open	40185+40383	2549.5+2569.3	13.61	15.30	1.476	62.9	1.006	0.03	0.851	1.264
LTE Band 41 HPUE	20M	QPSK	1	99	Top Side	0mm	Ant 3	DSI 12	Open	40185+40383	2549.5+2569.3	15.44	16.90	1.400	42.9	1.009	0.01	0.825	1.165
LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	40620	2593	15.10	16.10	1.259	62.9	1.006	0.11	0.912	1.155
LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	39750	2506	14.97	16.10	1.297	62.9	1.006	0.04	0.813	1.061
LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	40185	2549.5	15.06	16.10	1.271	62.9	1.006	-0.11	0.857	1.096
LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	41055	2636.5	15.04	16.10	1.276	62.9	1.006	0.11	0.958	1.230
LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	41490	2680	15.02	16.10	1.282	62.9	1.006	-0.01	0.965	1.245
LTE Band 41	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	40620	2593	15.05	16.10	1.274	62.9	1.006	0.10	0.895	1.147
LTE Band 41	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	39750	2506	14.91	16.10	1.315	62.9	1.006	0.08	0.781	1.033
LTE Band 41	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	40185	2549.5	14.89	16.10	1.321	62.9	1.006	0.05	0.789	1.049
LTE Band 41	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	41055	2636.5	15.01	16.10	1.285	62.9	1.006	0.01	0.917	1.185
LTE Band 41	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	41490	2680	14.98	16.10	1.294	62.9	1.006	-0.13	0.928	1.208
LTE Band 41	20M	QPSK	100	0	Back Right	0mm	Ant 4	DSI 12	Open	39750	2506	14.96	16.10	1.300	62.9	1.006	0.02	0.901	1.178
LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	40620	2593	15.10	16.10	1.259	62.9	1.006	-0.16	0.923	1.169
LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	39750	2506	14.97	16.10	1.297	62.9	1.006	0.15	0.813	1.061
LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	40185	2549.5	15.06	16.10	1.271	62.9	1.006	0.16	0.811	1.037
LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	41055	2636.5	15.04	16.10	1.276	62.9	1.006	-0.01	0.805	1.033
LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	41490	2680	15.02	16.10	1.282	62.9	1.006	-0.14	0.748	0.965
LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	40620	2593	15.05	16.10	1.274	62.9	1.006	0.10	0.903	1.157
LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	39750	2506	14.91	16.10	1.315	62.9	1.006	-0.10	0.874	1.156
LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	40185	2549.5	14.89	16.10	1.321	62.9	1.006	-0.04	0.862	1.146
LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	41055	2636.5	15.01	16.10	1.285	62.9	1.006	-0.06	0.863	1.116
LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	41490	2680	14.98	16.10	1.294	62.9	1.006	0.17	0.876	1.140
LTE Band 41	20M	QPSK	100	0	Right Side	0mm	Ant 4	DSI 12	Open	39750	2506	14.96	16.10	1.300	62.9	1.006	0.03	0.821	1.074
LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 12	Open	40620	2593	15.10	16.10	1.259	62.9	1.006	0.10	0.094	0.119
LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 12	Open	40620	2593	15.05	16.10	1.274	62.9	1.006	0.15	0.073	0.094
LTE Band 41	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	40620	2593	22.05	23.00	1.245	62.9	1.006	0.01	0.885	1.108
LTE Band 41	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	39750	2506	21.92	23.00	1.282	62.9	1.006	0.02	0.865	1.116
LTE Band 41	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	40185	2549.5	21.95	23.00	1.274	62.9	1.006	0.03	0.851	1.091
LTE Band 41	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	41055	2636.5	21.89	23.00	1.291	62.9	1.006	0.05	0.805	1.045
LTE Band 41	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	41490	2680	21.88	23.00	1.294	62.9	1.006	0.06	0.803	1.045
LTE Band 41	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	40620	2593	21.09	22.00	1.233	62.9	1.006	0.16	0.795	0.986
LTE Band 41	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	39750	2506	21.02	22.00	1.253	62.9	1.006	0.07	0.725	0.914
LTE Band 41	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	40185	2549.5	21.06	22.00	1.242	62.9	1.006	0.08	0.721	0.901



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LTE Band 41	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	41055	2636.5	20.96	22.00	1.271	62.9	1.006	0.06	0.760	0.972
LTE Band 41	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	41490	2680	20.92	22.00	1.282	62.9	1.006	0.03	0.698	0.900
LTE Band 41	20M	QPSK	100	0	Back Right	14mm	Ant 4	DSI 4	Open	40620	2593	21.07	22.00	1.239	62.9	1.006	0.02	0.610	0.760
LTE Band 41	20M	QPSK	1	0	Right Side	15mm	Ant 4	DSI 4	Open	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.08	0.352	0.441
LTE Band 41	20M	QPSK	50	0	Right Side	15mm	Ant 4	DSI 4	Open	40620	2593	21.09	22.00	1.233	62.9	1.006	0.09	0.280	0.347
LTE Band 41	20M	QPSK	1	0	Top Side	9mm	Ant 4	DSI 4	Open	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.17	0.191	0.239
LTE Band 41	20M	QPSK	50	0	Top Side	9mm	Ant 4	DSI 4	Open	40620	2593	21.09	22.00	1.233	62.9	1.006	0.06	0.148	0.184
LTE Band 41 HPUE	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	40620	2593	16.57	17.70	1.297	42.9	1.009	0.03	0.881	1.153
LTE Band 41 HPUE	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	39750	2506	16.53	17.70	1.309	42.9	1.009	0.11	0.795	1.050
LTE Band 41 HPUE	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	40185	2549.5	16.55	17.70	1.303	42.9	1.009	-0.07	0.829	1.090
LTE Band 41 HPUE	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	41055	2636.5	16.52	17.70	1.312	42.9	1.009	0.05	0.893	1.182
LTE Band 41 HPUE	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	41490	2680	16.51	17.70	1.315	42.9	1.009	0.03	0.901	1.195
LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	41490+41292	2680+2660.2	14.55	16.10	1.429	62.9	1.006	0.03	0.805	1.157
LTE Band 41 HPUE	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	41490+41292	2680+2660.2	16.31	17.70	1.377	62.9	1.006	0.02	0.825	1.143
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	42590	3500	15.59	17.00	1.384	62.9	1.006	0.10	0.676	0.941
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	42190	3460	15.55	17.00	1.396	62.9	1.006	0.01	0.653	0.917
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	42990	3540	15.54	17.00	1.400	62.9	1.006	-0.11	0.638	0.899
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	42590	3500	15.58	17.00	1.387	62.9	1.006	0.05	0.656	0.915
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	42190	3460	15.42	17.00	1.439	62.9	1.006	-0.05	0.573	0.829
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	42990	3540	15.41	17.00	1.442	62.9	1.006	-0.01	0.614	0.891
LTE Band 42 (27Q)	20M	QPSK	100	0	Back Right	0mm	Ant 4	DSI 12	Open	42590	3500	15.49	17.00	1.416	62.9	1.006	0.14	0.602	0.858
LTE Band 42 (27Q)	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	42590	3500	15.59	17.00	1.384	62.9	1.006	-0.08	0.425	0.592
LTE Band 42 (27Q)	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	42590	3500	15.58	17.00	1.387	62.9	1.006	0.14	0.326	0.455
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 12	Open	42590	3500	15.59	17.00	1.384	62.9	1.006	0.10	0.079	0.110
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 12	Open	42590	3500	15.58	17.00	1.387	62.9	1.006	0.19	0.042	0.059
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	42590	3500	23.12	24.00	1.225	62.9	1.006	0.14	0.646	0.796
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	42190	3460	23.06	24.00	1.242	62.9	1.006	0.03	0.621	0.776
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	42990	3540	23.02	24.00	1.253	62.9	1.006	0.02	0.605	0.763
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	42590	3500	22.15	23.00	1.216	62.9	1.006	0.17	0.564	0.690
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	42190	3460	22.11	23.00	1.227	62.9	1.006	0.01	0.553	0.683
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	42990	3540	22.13	23.00	1.222	62.9	1.006	0.05	0.521	0.640
LTE Band 42 (27Q)	20M	QPSK	100	0	Back Right	14mm	Ant 4	DSI 4	Open	42590	3500	22.13	23.00	1.222	62.9	1.006	0.01	0.506	0.622
LTE Band 42 (27Q)	20M	QPSK	1	0	Right Side	15mm	Ant 4	DSI 4	Open	42590	3500	23.12	24.00	1.225	62.9	1.006	0.15	0.202	0.249
LTE Band 42 (27Q)	20M	QPSK	50	0	Right Side	15mm	Ant 4	DSI 4	Open	42590	3500	22.15	23.00	1.216	62.9	1.006	-0.11	0.112	0.137
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	9mm	Ant 4	DSI 4	Open	42590	3500	23.12	24.00	1.225	62.9	1.006	0.06	0.214	0.264
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	9mm	Ant 4	DSI 4	Open	42590	3500	22.15	23.00	1.216	62.9	1.006	0.11	0.119	0.146
LTE Band 42 (27Q)	20M	QPSK	1	99	Back Right	0mm	Ant 4	DSI 12	Open	42590+42788	3500+3519.8	15.51	17.00	1.409	62.9	1.006	0.03	0.623	0.883
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	42590	3500	15.47	17.10	1.455	62.9	1.006	0.16	0.858	1.256
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	42190	3460	15.45	17.10	1.462	62.9	1.006	-0.17	0.830	1.221
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	42990	3540	15.45	17.10	1.462	62.9	1.006	-0.17	0.736	1.082
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	42590	3500	15.46	17.10	1.459	62.9	1.006	0.01	0.853	1.252
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	42190	3460	15.38	17.10	1.486	62.9	1.006	0.18	0.813	1.215
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	42990	3540	15.35	17.10	1.496	62.9	1.006	0.12	0.722	1.087
LTE Band 42 (27Q)	20M	QPSK	100	0	Back Top	0mm	Ant 6	DSI 12	Open	42590	3500	15.38	17.10	1.486	62.9	1.006	0.07	0.792	1.184
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Right	0mm	Ant 6	DSI 12	Open	42590	3500	15.47	17.10	1.455	62.9	1.006	-0.15	0.096	0.141
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Right	0mm	Ant 6	DSI 12	Open	42590	3500	15.46	17.10	1.459	62.9	1.006	0.08	0.094	0.138
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	42590	3500	15.47	17.10	1.455	62.9	1.006	0.05	0.772	1.130
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	42190	3460	15.45	17.10	1.462	62.9	1.006	-0.04	0.751	1.105



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LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	42990	3540	15.45	17.10	1.462	62.9	1.006	-0.02	0.744	1.094
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	42590	3500	15.46	17.10	1.459	62.9	1.006	0.01	0.761	1.117
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	42190	3460	15.38	17.10	1.486	62.9	1.006	-0.12	0.734	1.097
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	42990	3540	15.35	17.10	1.496	62.9	1.006	-0.06	0.728	1.096
LTE Band 42 (27Q)	20M	QPSK	100	0	Top Side	0mm	Ant 6	DSI 12	Open	42590	3500	15.38	17.10	1.486	62.9	1.006	0.01	0.739	1.105
LTE Band 42 (27Q)	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSI 4	Open	42590	3500	22.03	23.00	1.250	62.9	1.006	-0.05	0.094	0.118
LTE Band 42 (27Q)	20M	QPSK	50	0	Right Side	0mm	Ant 6	DSI 4	Open	42590	3500	21.24	22.00	1.191	62.9	1.006	-0.05	0.052	0.062
LTE Band 42 (27Q)	20M	QPSK	1	0	Back top	12mm	Ant 6	DSI 4	Open	42590	3500	22.03	23.00	1.250	62.9	1.006	-0.14	0.740	0.931
LTE Band 42 (27Q)	20M	QPSK	1	0	Back top	12mm	Ant 6	DSI 4	Open	42190	3460	22.01	23.00	1.256	62.9	1.006	0.02	0.656	0.829
LTE Band 42 (27Q)	20M	QPSK	1	0	Back top	12mm	Ant 6	DSI 4	Open	42990	3540	21.97	23.00	1.268	62.9	1.006	0.03	0.621	0.792
LTE Band 42 (27Q)	20M	QPSK	50	0	Back top	12mm	Ant 6	DSI 4	Open	42590	3500	21.24	22.00	1.191	62.9	1.006	0.02	0.735	0.881
LTE Band 42 (27Q)	20M	QPSK	50	0	Back top	12mm	Ant 6	DSI 4	Open	42190	3460	21.16	22.00	1.213	62.9	1.006	0.05	0.625	0.763
LTE Band 42 (27Q)	20M	QPSK	50	0	Back top	12mm	Ant 6	DSI 4	Open	42990	3540	21.11	22.00	1.227	62.9	1.006	0.06	0.635	0.784
LTE Band 42 (27Q)	20M	QPSK	100	0	Back top	12mm	Ant 6	DSI 4	Open	42590	3500	21.20	22.00	1.202	62.9	1.006	0.02	0.621	0.751
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	15mm	Ant 6	DSI 4	Open	42590	3500	22.03	23.00	1.250	62.9	1.006	0.00	0.653	0.821
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	15mm	Ant 6	DSI 4	Open	42190	3460	22.01	23.00	1.256	62.9	1.006	0.03	0.615	0.777
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	15mm	Ant 6	DSI 4	Open	42990	3540	21.97	23.00	1.268	62.9	1.006	0.01	0.616	0.786
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	15mm	Ant 6	DSI 4	Open	42590	3500	21.24	22.00	1.191	62.9	1.006	0.00	0.651	0.780
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	15mm	Ant 6	DSI 4	Open	42190	3460	21.16	22.00	1.213	62.9	1.006	0.08	0.623	0.760
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	15mm	Ant 6	DSI 4	Open	42990	3540	21.11	22.00	1.227	62.9	1.006	0.02	0.621	0.767
LTE Band 42 (27Q)	20M	QPSK	100	0	Top Side	15mm	Ant 6	DSI 4	Open	42590	3500	21.20	22.00	1.202	62.9	1.006	0.03	0.608	0.735
LTE Band 42 (27Q)	20M	QPSK	1	99	Back Top	0mm	Ant 6	DSI 12	Open	42590+42788	3500+3519.8	15.38	17.10	1.486	62.9	1.006	0.03	0.801	1.197
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	42590	3500	12.31	13.20	1.227	62.9	1.006	0.00	0.851	1.050
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	42190	3460	12.28	13.20	1.236	62.9	1.006	0.10	0.788	0.980
LTE Band 42 (27Q)	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	42990	3540	12.21	13.20	1.256	62.9	1.006	-0.11	0.762	0.963
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	42590	3500	12.29	13.20	1.233	62.9	1.006	-0.19	0.758	0.940
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	42190	3460	12.13	13.20	1.279	62.9	1.006	0.09	0.767	0.987
LTE Band 42 (27Q)	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	42990	3540	12.19	13.20	1.262	62.9	1.006	-0.10	0.769	0.976
LTE Band 42 (27Q)	20M	QPSK	100	0	Back Top	0mm	Ant 8	DSI 12	Open	42590	3500	12.25	13.20	1.245	62.9	1.006	-0.05	0.749	0.938
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	42590	3500	12.31	13.20	1.227	62.9	1.006	-0.05	0.993	1.226
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	42190	3460	12.28	13.20	1.236	62.9	1.006	-0.15	0.945	1.175
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	42990	3540	12.21	13.20	1.256	62.9	1.006	-0.02	0.935	1.181
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	42590	3500	12.29	13.20	1.233	62.9	1.006	-0.09	0.927	1.150
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	42190	3460	12.13	13.20	1.279	62.9	1.006	0.17	0.946	1.217
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	42990	3540	12.19	13.20	1.262	62.9	1.006	-0.13	0.895	1.136
LTE Band 42 (27Q)	20M	QPSK	100	0	Top Side	0mm	Ant 8	DSI 12	Open	42590	3500	12.25	13.20	1.245	62.9	1.006	0.11	0.849	1.063
LTE Band 42 (27Q)	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	42590	3500	23.25	24.00	1.189	62.9	1.006	0.13	0.913	1.092
LTE Band 42 (27Q)	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	42190	3460	23.11	24.00	1.227	62.9	1.006	0.03	0.933	1.152
LTE Band 42 (27Q)	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	42990	3540	23.17	24.00	1.211	62.9	1.006	0.02	0.908	1.106
LTE Band 42 (27Q)	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	42590	3500	22.19	23.00	1.205	62.9	1.006	0.06	0.921	1.116
LTE Band 42 (27Q)	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	42190	3460	22.15	23.00	1.216	62.9	1.006	0.01	0.913	1.117
LTE Band 42 (27Q)	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	42990	3540	22.11	23.00	1.227	62.9	1.006	0.05	0.896	1.106
LTE Band 42 (27Q)	20M	QPSK	100	0	Back top	12mm	Ant 8	DSI 4	Open	42590	3500	22.14	23.00	1.219	62.9	1.006	0.02	0.845	1.036
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	42590	3500	23.25	24.00	1.189	62.9	1.006	-0.19	0.841	1.006
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	42190	3460	23.11	24.00	1.227	62.9	1.006	0.01	0.905	1.117
LTE Band 42 (27Q)	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	42990	3540	23.17	24.00	1.211	62.9	1.006	0.03	0.901	1.098
LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	42590	3500	22.19	23.00	1.205	62.9	1.006	0.02	0.862	1.045



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	(27Q)																			
	LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	42190	3460	22.15	23.00	1.216	62.9	1.006	0.01	0.851	1.041
	LTE Band 42 (27Q)	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	42990	3540	22.11	23.00	1.227	62.9	1.006	0.02	0.846	1.044
	LTE Band 42 (27Q)	20M	QPSK	100	0	Top Side	15mm	Ant 8	DSI 4	Open	42590	3500	22.14	23.00	1.219	62.9	1.006	0.03	0.835	1.024
	LTE Band 42 (27Q)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 12	Open	42590+42788	3500+3519.8	12.25	13.20	1.245	62.9	1.006	0.02	0.905	1.133
	LTE Band 48	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	55830	3609	17.15	18.70	1.429	62.9	1.006	0.14	0.734	1.055
	LTE Band 48	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	55340	3560	17.05	18.70	1.462	62.9	1.006	0.09	0.628	0.924
	LTE Band 48	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	56150	3641	17.08	18.70	1.452	62.9	1.006	-0.13	0.593	0.866
	LTE Band 48	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 12	Open	56640	3690	17.06	18.70	1.459	62.9	1.006	-0.11	0.610	0.895
	LTE Band 48	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	55830	3609	17.12	18.70	1.439	62.9	1.006	0.06	0.716	1.037
	LTE Band 48	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	55340	3560	17.00	18.70	1.479	62.9	1.006	-0.07	0.705	1.049
	LTE Band 48	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	56150	3641	16.98	18.70	1.486	62.9	1.006	0.13	0.701	1.048
	LTE Band 48	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 12	Open	56640	3690	16.93	18.70	1.503	62.9	1.006	0.10	0.689	1.042
	LTE Band 48	20M	QPSK	100	0	Back Right	0mm	Ant 4	DSI 12	Open	55830	3609	17.06	18.70	1.459	62.9	1.006	-0.15	0.477	0.700
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 12	Open	55830	3609	17.15	18.70	1.429	62.9	1.006	-0.14	0.470	0.676
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	55830	3609	17.12	18.70	1.439	62.9	1.006	0.02	0.429	0.621
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	55340	3560	17.00	18.70	1.479	62.9	1.006	-0.08	0.412	0.613
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	56150	3641	16.98	18.70	1.486	62.9	1.006	0.03	0.410	0.613
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 12	Open	56640	3690	16.93	18.70	1.503	62.9	1.006	-0.07	0.405	0.612
	LTE Band 48	20M	QPSK	100	0	Right Side	0mm	Ant 4	DSI 12	Open	55830	3609	17.06	18.70	1.459	62.9	1.006	0.03	0.407	0.597
	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 12	Open	55830	3609	17.15	18.70	1.429	62.9	1.006	0.18	0.141	0.203
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 12	Open	55830	3609	17.12	18.70	1.439	62.9	1.006	0.01	0.115	0.166
	LTE Band 48	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	55830	3609	23.15	24.00	1.216	62.9	1.006	0.03	0.699	0.855
	LTE Band 48	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	55340	3560	22.97	24.00	1.268	62.9	1.006	0.05	0.653	0.833
	LTE Band 48	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	56150	3641	22.95	24.00	1.274	62.9	1.006	0.00	0.645	0.827
	LTE Band 48	20M	QPSK	1	0	Back Right	14mm	Ant 4	DSI 4	Open	56640	3690	23.09	24.00	1.233	62.9	1.006	0.03	0.635	0.788
	LTE Band 48	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	55830	3609	22.17	23.00	1.211	62.9	1.006	0.01	0.595	0.725
	LTE Band 48	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	55340	3560	22.11	23.00	1.227	62.9	1.006	0.02	0.551	0.680
	LTE Band 48	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	56150	3641	22.03	23.00	1.250	62.9	1.006	0.03	0.523	0.658
	LTE Band 48	20M	QPSK	50	0	Back Right	14mm	Ant 4	DSI 4	Open	56640	3690	22.09	23.00	1.233	62.9	1.006	0.02	0.521	0.646
	LTE Band 48	20M	QPSK	100	0	Back Right	14mm	Ant 4	DSI 4	Open	55830	3609	22.11	23.00	1.227	62.9	1.006	0.05	0.553	0.683
	LTE Band 48	20M	QPSK	1	0	Right Side	15mm	Ant 4	DSI 4	Open	55830	3609	23.15	24.00	1.216	62.9	1.006	0.06	0.212	0.259
	LTE Band 48	20M	QPSK	50	0	Right Side	15mm	Ant 4	DSI 4	Open	55830	3609	22.17	23.00	1.211	62.9	1.006	0.02	0.175	0.213
	LTE Band 48	20M	QPSK	1	0	Top Side	9mm	Ant 4	DSI 4	Open	55830	3609	23.15	24.00	1.216	62.9	1.006	0.01	0.253	0.309
	LTE Band 48	20M	QPSK	50	0	Top Side	9mm	Ant 4	DSI 4	Open	55830	3609	22.17	23.00	1.211	62.9	1.006	0.03	0.209	0.255
	LTE Band 48	20M	QPSK	1	99	Back Right	0mm	Ant 4	DSI 12	Open	55830+56028	3609+3628.8	17.03	18.70	1.469	62.9	1.006	0.02	0.689	1.018
	LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	55830	3609	15.48	17.10	1.452	62.9	1.006	0.00	0.847	1.237
	LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	55340	3560	15.36	17.10	1.493	62.9	1.006	-0.14	0.807	1.212
	LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	56150	3641	15.36	17.10	1.493	62.9	1.006	0.18	0.786	1.181
	LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 12	Open	56640	3690	15.37	17.10	1.489	62.9	1.006	0.17	0.758	1.135
	LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	55830	3609	15.38	17.10	1.486	62.9	1.006	0.00	0.886	1.324
	LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	55340	3560	15.24	17.10	1.535	62.9	1.006	-0.17	0.856	1.322
	LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	56150	3641	15.23	17.10	1.538	62.9	1.006	0.02	0.866	1.340
	LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 12	Open	56640	3690	15.32	17.10	1.507	62.9	1.006	0.16	0.801	1.214
	LTE Band 48	20M	QPSK	100	0	Back Top	0mm	Ant 6	DSI 12	Open	55830	3609	15.35	17.10	1.496	62.9	1.006	-0.14	0.770	1.159
	LTE Band 48	20M	QPSK	1	0	Back Right	0mm	Ant 6	DSI 12	Open	55830	3609	15.48	17.10	1.452	62.9	1.006	-0.07	0.099	0.145
	LTE Band 48	20M	QPSK	50	0	Back Right	0mm	Ant 6	DSI 12	Open	55830	3609	15.38	17.10	1.486	62.9	1.006	-0.08	0.148	0.221
106	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	55830	3609	15.48	17.10	1.452	62.9	1.006	-0.13	0.941	1.375
	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	55340	3560	15.36	17.10	1.493	62.9	1.006	0.08	0.908	1.364
	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	56150	3641	15.36	17.10	1.493	62.9	1.006	-0.08	0.886	1.331
	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 12	Open	56640	3690	15.37	17.10	1.489	62.9	1.006	-0.16	0.880	1.318
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	55830	3609	15.38	17.10	1.486	62.9	1.006	-0.03	0.913	1.365
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	55340	3560	15.24	17.10	1.535	62.9	1.006	0.15	0.862	1.331
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	56150	3641	15.23	17.10	1.538	62.9	1.006	0.09	0.856	1.324
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 12	Open	56640	3690	15.32	17.10	1.507	62.9	1.006	0.11	0.847	1.284



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LTE Band 48	20M	QPSK	100	0	Top Side	0mm	Ant 6	DSI 12	Open	55830	3609	15.35	17.10	1.496	62.9	1.006	-0.15	0.825	1.242
LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSI 4	Open	55830	3609	21.98	23.00	1.265	62.9	1.006	-0.17	0.093	0.118
LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 6	DSI 4	Open	55830	3609	20.81	22.00	1.315	62.9	1.006	-0.04	0.086	0.114
LTE Band 48	20M	QPSK	1	0	Back top	12mm	Ant 6	DSI 4	Open	55830	3609	21.98	23.00	1.265	62.9	1.006	-0.03	0.337	0.429
LTE Band 48	20M	QPSK	50	0	Back top	12mm	Ant 6	DSI 4	Open	55830	3609	20.81	22.00	1.315	62.9	1.006	0.11	0.275	0.364
LTE Band 48	20M	QPSK	1	0	Top Side	15mm	Ant 6	DSI 4	Open	55830	3609	21.98	23.00	1.265	62.9	1.006	0.02	0.198	0.252
LTE Band 48	20M	QPSK	50	0	Top Side	15mm	Ant 6	DSI 4	Open	55830	3609	20.81	22.00	1.315	62.9	1.006	0.14	0.209	0.276
LTE Band 48	20M	QPSK	1	99	Top Side	0mm	Ant 6	DSI 12	Open	55830+56028	3609+3628.8	15.35	17.10	1.496	62.9	1.006	0.02	0.901	1.356
LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	55830	3609	12.39	13.20	1.205	62.9	1.006	-0.07	0.873	1.058
LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	55340	3560	12.35	13.20	1.216	62.9	1.006	0.07	0.910	1.113
LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	56150	3641	12.33	13.20	1.222	62.9	1.006	0.00	0.824	1.013
LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 12	Open	56640	3690	12.36	13.20	1.213	62.9	1.006	-0.11	0.900	1.098
LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	55830	3609	12.38	13.20	1.208	62.9	1.006	0.01	0.888	1.079
LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	55340	3560	12.24	13.20	1.247	62.9	1.006	-0.01	0.912	1.144
LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	56150	3641	12.29	13.20	1.233	62.9	1.006	0.00	0.963	1.195
LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 12	Open	56640	3690	12.24	13.20	1.247	62.9	1.006	-0.18	0.925	1.160
LTE Band 48	20M	QPSK	100	0	Back Top	0mm	Ant 8	DSI 12	Open	56640	3690	12.30	13.20	1.230	62.9	1.006	-0.08	0.893	1.105
LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	55830	3609	12.39	13.20	1.205	62.9	1.006	-0.10	1.070	1.297
LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	55340	3560	12.35	13.20	1.216	62.9	1.006	-0.17	0.925	1.132
LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	56150	3641	12.33	13.20	1.222	62.9	1.006	-0.04	0.889	1.093
LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 12	Open	56640	3690	12.36	13.20	1.213	62.9	1.006	-0.18	0.821	1.002
LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	55830	3609	12.38	13.20	1.208	62.9	1.006	-0.08	0.839	1.020
LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	55340	3560	12.24	13.20	1.247	62.9	1.006	-0.05	0.848	1.064
LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	56150	3641	12.29	13.20	1.233	62.9	1.006	-0.02	0.825	1.023
LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 12	Open	56640	3690	12.24	13.20	1.247	62.9	1.006	-0.13	0.884	1.109
LTE Band 48	20M	QPSK	100	0	Top Side	0mm	Ant 8	DSI 12	Open	56640	3690	12.30	13.20	1.230	62.9	1.006	0.13	0.875	1.083
LTE Band 48	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	55830	3609	23.29	24.00	1.178	62.9	1.006	0.03	0.981	1.163
LTE Band 48	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	55340	3560	22.96	24.00	1.271	62.9	1.006	0.02	0.925	1.183
LTE Band 48	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	56150	3641	22.96	24.00	1.271	62.9	1.006	0.06	0.902	1.153
LTE Band 48	20M	QPSK	1	0	Back top	12mm	Ant 8	DSI 4	Open	56640	3690	22.99	24.00	1.262	62.9	1.006	0.02	0.859	1.091
LTE Band 48	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	55830	3609	22.06	23.00	1.242	62.9	1.006	0.03	0.971	1.213
LTE Band 48	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	55340	3560	21.95	23.00	1.274	62.9	1.006	0.03	0.956	1.225
LTE Band 48	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	56150	3641	21.88	23.00	1.294	62.9	1.006	0.01	0.951	1.238
LTE Band 48	20M	QPSK	50	0	Back top	12mm	Ant 8	DSI 4	Open	56640	3690	21.99	23.00	1.262	62.9	1.006	0.05	0.945	1.200
LTE Band 48	20M	QPSK	100	0	Back top	12mm	Ant 8	DSI 4	Open	55830	3609	22.02	23.00	1.253	62.9	1.006	0.02	0.891	1.123
LTE Band 48	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	55830	3609	23.29	24.00	1.178	62.9	1.006	0.01	0.806	0.955
LTE Band 48	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	55340	3560	22.96	24.00	1.271	62.9	1.006	0.01	0.801	1.024
LTE Band 48	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	56150	3641	22.96	24.00	1.271	62.9	1.006	0.12	0.756	0.967
LTE Band 48	20M	QPSK	1	0	Top Side	15mm	Ant 8	DSI 4	Open	56640	3690	22.99	24.00	1.262	62.9	1.006	0.13	0.851	1.080
LTE Band 48	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	55830	3609	22.06	23.00	1.242	62.9	1.006	0.12	0.732	0.915
LTE Band 48	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	55340	3560	21.95	23.00	1.274	62.9	1.006	0.12	0.725	0.929
LTE Band 48	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	56150	3641	21.88	23.00	1.294	62.9	1.006	0.13	0.711	0.926
LTE Band 48	20M	QPSK	50	0	Top Side	15mm	Ant 8	DSI 4	Open	56640	3690	21.99	23.00	1.262	62.9	1.006	0.11	0.706	0.896
LTE Band 48	20M	QPSK	100	0	Top Side	15mm	Ant 8	DSI 4	Open	55830	3609	22.02	23.00	1.253	62.9	1.006	0.13	0.701	0.884
LTE Band 48	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 12	Open	55830+56028	3609+3628.8	12.25	13.20	1.245	62.9	1.006	0.03	0.956	1.197
FR1 n7	50M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 12	Open	507000	2535	12.21	13.50	1.346	-	-	-0.16	0.903	1.215
FR1 n7	50M	BPSK	135	68	Back Top	0mm	Ant 3	DSI 12	Open	507000	2535	12.20	13.50	1.349	-	-	-0.09	0.946	1.276
FR1 n7	50M	BPSK	270	0	Back Top	0mm	Ant 3	DSI 12	Open	507000	2535	12.16	13.50	1.361	-	-	-0.19	0.816	1.111
FR1 n7	50M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 12	Open	507000	2535	12.21	13.50	1.346	-	-	-0.16	0.880	1.184
FR1 n7	50M	BPSK	135	68	Top Side	0mm	Ant 3	DSI 12	Open	507000	2535	12.20	13.50	1.349	-	-	0.00	0.864	1.166
FR1 n7	50M	BPSK	270	0	Top Side	0mm	Ant 3	DSI 12	Open	507000	2535	12.16	13.50	1.361	-	-	-0.07	0.848	1.154
FR1 n7	50M	BPSK	1	1	Back top	12mm	Ant 3	DSI 4	Open	507000	2535	22.52	23.50	1.253	-	-	-0.10	0.901	1.129
FR1 n7	50M	BPSK	135	68	Back top	12mm	Ant 3	DSI 4	Open	507000	2535	22.50	23.50	1.259	-	-	-0.03	0.905	1.139
FR1 n7	50M	BPSK	270	0	Back top	12mm	Ant 3	DSI 4	Open	507000	2535	22.31	23.50	1.315	-	-	0.03	0.865	1.137
FR1 n7	50M	BPSK	1	1	Top Side	15mm	Ant 3	DSI 4	Open	507000	2535	22.52	23.50	1.253	-	-	-0.02	0.540	0.677
FR1 n7	50M	BPSK	135	68	Top Side	15mm	Ant 3	DSI 4	Open	507000	2535	22.50	23.50	1.259	-	-	-0.15	0.551	0.694



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107	FR1 n7	50M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	507000	2535	14.21	15.30	1.285	-	-	-0.05	0.948	1.218
	FR1 n7	50M	BPSK	135	68	Back Right	0mm	Ant 4	DSI 12	Open	507000	2535	14.20	15.30	1.288	-	-	-0.05	0.994	1.280
	FR1 n7	50M	BPSK	270	0	Back Right	0mm	Ant 4	DSI 12	Open	507000	2535	14.06	15.30	1.330	-	-	-0.12	0.931	1.238
	FR1 n7	50M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	507000	2535	14.21	15.30	1.285	-	-	-0.11	0.905	1.163
	FR1 n7	50M	BPSK	135	68	Right Side	0mm	Ant 4	DSI 12	Open	507000	2535	14.20	15.30	1.288	-	-	-0.05	0.943	1.215
	FR1 n7	50M	BPSK	270	0	Right Side	0mm	Ant 4	DSI 12	Open	507000	2535	14.06	15.30	1.330	-	-	-0.15	0.890	1.184
	FR1 n7	50M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 12	Open	507000	2535	14.21	15.30	1.285	-	-	0.14	0.168	0.216
	FR1 n7	50M	BPSK	135	68	Top Side	0mm	Ant 4	DSI 12	Open	507000	2535	14.20	15.30	1.288	-	-	-0.02	0.110	0.142
	FR1 n7	50M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	507000	2535	22.27	23.00	1.183	-	-	-0.05	0.805	0.952
	FR1 n7	50M	BPSK	135	68	Back Right	14mm	Ant 4	DSI 4	Open	507000	2535	22.25	23.00	1.189	-	-	-0.15	0.817	0.971
108	FR1 n7	50M	BPSK	270	0	Back Right	14mm	Ant 4	DSI 4	Open	507000	2535	22.21	23.00	1.199	-	-	0.02	0.805	0.965
	FR1 n7	50M	BPSK	1	1	Right Side	15mm	Ant 4	DSI 4	Open	507000	2535	22.27	23.00	1.183	-	-	0.10	0.293	0.347
	FR1 n7	50M	BPSK	135	68	Right Side	15mm	Ant 4	DSI 4	Open	507000	2535	22.25	23.00	1.189	-	-	-0.11	0.326	0.388
	FR1 n7	50M	BPSK	1	1	Top Side	9mm	Ant 4	DSI 4	Open	507000	2535	22.27	23.00	1.183	-	-	-0.16	0.150	0.177
	FR1 n7	50M	BPSK	135	68	Top Side	9mm	Ant 4	DSI 4	Open	507000	2535	22.25	23.00	1.189	-	-	0.07	0.131	0.156
	FR1 n25	40M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 12	Open	376500	1882.5	15.25	16.00	1.189	-	-	-0.06	0.988	1.175
	FR1 n25	40M	BPSK	108	54	Back Top	0mm	Ant 3	DSI 12	Open	376500	1882.5	15.24	16.00	1.191	-	-	-0.19	1.100	1.310
	FR1 n25	40M	BPSK	216	0	Back Top	0mm	Ant 3	DSI 12	Open	376500	1882.5	15.22	16.00	1.197	-	-	0.07	0.955	1.143
	FR1 n25	40M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 12	Open	376500	1882.5	15.25	16.00	1.189	-	-	0.00	1.090	1.296
	FR1 n25	40M	BPSK	108	54	Top Side	0mm	Ant 3	DSI 12	Open	376500	1882.5	15.24	16.00	1.191	-	-	-0.10	0.940	1.120
109	FR1 n25	40M	BPSK	216	0	Top Side	0mm	Ant 3	DSI 12	Open	376500	1882.5	15.22	16.00	1.197	-	-	0.13	0.978	1.171
	FR1 n25	40M	BPSK	1	1	Back top	12mm	Ant 3	DSI 4	Open	376500	1882.5	23.32	24.00	1.169	-	-	0.06	1.060	1.239
	FR1 n25	40M	BPSK	108	54	Back top	12mm	Ant 3	DSI 4	Open	376500	1882.5	23.20	24.00	1.202	-	-	0.07	0.979	1.177
	FR1 n25	40M	BPSK	216	0	Back top	12mm	Ant 3	DSI 4	Open	376500	1882.5	23.18	24.00	1.208	-	-	0.02	0.901	1.088
	FR1 n25	40M	BPSK	1	1	Top Side	15mm	Ant 3	DSI 4	Open	376500	1882.5	23.32	24.00	1.169	-	-	0.05	0.683	0.798
	FR1 n25	40M	BPSK	108	54	Top Side	15mm	Ant 3	DSI 4	Open	376500	1882.5	23.20	24.00	1.202	-	-	-0.06	0.634	0.762
	FR1 n66	45M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 12	Open	349000	1745	13.01	14.40	1.377	-	-	0.15	0.930	1.281
	FR1 n66	45M	BPSK	120	60	Back Top	0mm	Ant 3	DSI 12	Open	349000	1745	12.99	14.40	1.384	-	-	0.05	0.854	1.182
	FR1 n66	45M	BPSK	240	0	Back Top	0mm	Ant 3	DSI 12	Open	349000	1745	12.87	14.40	1.422	-	-	-0.09	0.876	1.246
	FR1 n66	45M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 12	Open	349000	1745	13.01	14.40	1.377	-	-	-0.16	0.786	1.082
110	FR1 n66	45M	BPSK	120	60	Top Side	0mm	Ant 3	DSI 12	Open	349000	1745	12.99	14.40	1.384	-	-	-0.09	0.829	1.147
	FR1 n66	45M	BPSK	240	0	Top Side	0mm	Ant 3	DSI 12	Open	349000	1745	12.87	14.40	1.422	-	-	0.01	0.790	1.123
	FR1 n66	45M	BPSK	1	1	Back top	12mm	Ant 3	DSI 4	Open	349000	1745	23.62	24.00	1.091	-	-	0.07	0.863	0.942
	FR1 n66	45M	BPSK	120	60	Back top	12mm	Ant 3	DSI 4	Open	349000	1745	23.58	24.00	1.102	-	-	-0.17	0.943	1.039
	FR1 n66	45M	BPSK	240	0	Back top	12mm	Ant 3	DSI 4	Open	349000	1745	22.53	23.50	1.250	-	-	0.12	0.701	0.876
	FR1 n66	45M	BPSK	1	1	Top Side	15mm	Ant 3	DSI 4	Open	349000	1745	23.62	24.00	1.091	-	-	0.03	0.530	0.578
	FR1 n66	45M	BPSK	120	60	Top Side	15mm	Ant 3	DSI 4	Open	349000	1745	23.58	24.00	1.102	-	-	0.18	0.580	0.639
	FR1 n41	100M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 12	Open	518598	2592.99	12.11	13.50	1.377	-	-	0.14	0.936	1.289
	FR1 n41	100M	BPSK	135	69	Back Top	0mm	Ant 3	DSI 12	Open	518598	2592.99	12.10	13.50	1.380	-	-	-0.18	0.880	1.214
	FR1 n41	100M	BPSK	270	0	Back Top	0mm	Ant 3	DSI 12	Open	518598	2592.99	12.06	13.50	1.393	-	-	0.03	0.890	1.240
FR1 n41 HPUE	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 12	Open	518598	2592.99	12.11	13.50	1.377	-	-	0.16	0.920	1.267
	FR1 n41	100M	BPSK	135	69	Top Side	0mm	Ant 3	DSI 12	Open	518598	2592.99	12.10	13.50	1.380	-	-	-0.13	0.799	1.103
	FR1 n41	100M	BPSK	270	0	Top Side	0mm	Ant 3	DSI 12	Open	518598	2592.99	12.06	13.50	1.393	-	-	-0.18	0.813	1.133
	FR1 n41	100M	BPSK	1	1	Back top	12mm	Ant 3	DSI 4	Open	518598	2592.99	22.56	23.50	1.242	-	-	-0.11	0.905	1.124
	FR1 n41	100M	BPSK	135	69	Back top	12mm	Ant 3	DSI 4	Open	518598	2592.99	22.52	23.50	1.253	-	-	-0.18	0.847	1.061
	FR1 n41	100M	BPSK	270	0	Back top	12mm	Ant 3	DSI 4	Open	518598	2592.99	22.46	23.50	1.271	-	-	0.02	0.744	0.946
	FR1 n41	100M	BPSK	1	1	Top Side	15mm	Ant 3	DSI 4	Open	518598	2592.99	22.56	23.50	1.242	-	-	-0.03	0.821	1.020
	FR1 n41	100M	BPSK	135	69	Top Side	15mm	Ant 3	DSI 4	Open	518598	2592.99	22.52	23.50	1.253	-	-	0.05	0.603	0.756
	FR1 n41	100M	BPSK	270	0	Top Side	15mm	Ant 3	DSI 4	Open	518598	2592.99	22.46	23.50	1.271	-	-	0.03	0.625	0.794
	FR1 n41	100M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 12	Open	518598	2592.99	15.15	16.50	1.365	50.0	1.000	0.09	0.918	1.253
FR1 n41	FR1 n41	100M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.23	15.00	1.194	-	-	-0.19	0.769	0.918
	FR1 n41	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.22	15.00	1.197	-	-	-0.15	0.782	0.936
	FR1 n41	100M	BPSK	270	0	Back Right	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.19	15.00	1.205	-	-	-0.06	0.733	0.883
	FR1 n41	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.23	15.00	1.194	-	-	-0.11	1.040	1.242
	FR1 n41	100M	BPSK	135	69	Right Side	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.22	15.00	1.197	-	-	0.04	0.951	1.138
	FR1 n41	100M	BPSK	270	0	Right Side	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.19	15.00	1.205	-	-	-0.08	0.902	1.087



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	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.23	15.00	1.194	-	-	0.04	0.090	0.107
	FR1 n41	100M	BPSK	135	69	Top Side	0mm	Ant 4	DSI 12	Open	518598	2592.99	14.22	15.00	1.197	-	-	0.01	0.076	0.091
	FR1 n41	100M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	518598	2592.99	22.18	23.00	1.208	-	-	0.18	0.762	0.920
	FR1 n41	100M	BPSK	135	69	Back Right	14mm	Ant 4	DSI 4	Open	518598	2592.99	22.15	23.00	1.216	-	-	0.03	0.753	0.916
	FR1 n41	100M	BPSK	270	0	Back Right	14mm	Ant 4	DSI 4	Open	518598	2592.99	22.01	23.00	1.256	-	-	0.02	0.712	0.894
	FR1 n41	100M	BPSK	1	1	Right Side	15mm	Ant 4	DSI 4	Open	518598	2592.99	22.18	23.00	1.208	-	-	0.16	0.311	0.376
	FR1 n41	100M	BPSK	135	69	Right Side	15mm	Ant 4	DSI 4	Open	518598	2592.99	22.15	23.00	1.216	-	-	0.04	0.307	0.373
	FR1 n41	100M	BPSK	1	1	Top Side	9mm	Ant 4	DSI 4	Open	518598	2592.99	22.18	23.00	1.208	-	-	-0.03	0.128	0.155
	FR1 n41	100M	BPSK	135	69	Top Side	9mm	Ant 4	DSI 4	Open	518598	2592.99	22.15	23.00	1.216	-	-	-0.01	0.135	0.164
	FR1 n41 HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	518598	2592.99	17.29	18.00	1.178	50.0	1.000	0.03	0.956	1.126
	FR1 n48	40M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.85	14.50	1.462	-	-	-0.10	0.788	1.152
111	FR1 n48	40M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	638000	3570	12.81	14.50	1.476	-	-	-0.15	0.871	1.286
	FR1 n48	40M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	645332	3679.98	12.83	14.50	1.469	-	-	0.03	0.787	1.156
	FR1 n48	40M	BPSK	50	28	Back Right	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.83	14.50	1.469	-	-	-0.09	0.816	1.199
	FR1 n48	40M	BPSK	50	28	Back Right	0mm	Ant 4	DSI 12	Open	638000	3570	12.79	14.50	1.483	-	-	-0.02	0.848	1.258
	FR1 n48	40M	BPSK	50	28	Back Right	0mm	Ant 4	DSI 12	Open	645332	3679.98	12.78	14.50	1.486	-	-	-0.07	0.755	1.122
	FR1 n48	40M	BPSK	100	0	Back Right	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.79	14.50	1.483	-	-	0.03	0.785	1.164
	FR1 n48	40M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.85	14.50	1.462	-	-	-0.19	0.434	0.635
	FR1 n48	40M	BPSK	50	28	Right Side	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.83	14.50	1.469	-	-	0.15	0.418	0.614
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.85	14.50	1.462	-	-	0.04	0.105	0.154
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 4	DSI 12	Open	641666	3624.99	12.83	14.50	1.469	-	-	-0.08	0.120	0.176
	FR1 n48	40M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	641666	3624.99	23.21	24.00	1.199	-	-	0.03	0.834	1.000
	FR1 n48	40M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	638000	3570	23.18	24.00	1.208	-	-	-0.14	0.805	0.972
	FR1 n48	40M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	645332	3679.98	23.20	24.00	1.202	-	-	0.11	0.801	0.963
	FR1 n48	40M	BPSK	50	28	Back Right	14mm	Ant 4	DSI 4	Open	641666	3624.99	23.19	24.00	1.205	-	-	0.03	0.869	1.047
	FR1 n48	40M	BPSK	50	28	Back Right	14mm	Ant 4	DSI 4	Open	638000	3570	23.17	24.00	1.211	-	-	0.15	0.832	1.008
	FR1 n48	40M	BPSK	50	28	Back Right	14mm	Ant 4	DSI 4	Open	645332	3679.98	23.16	24.00	1.213	-	-	-0.06	0.815	0.989
	FR1 n48	40M	BPSK	100	0	Back Right	14mm	Ant 4	DSI 4	Open	641666	3624.99	23.17	24.00	1.211	-	-	-0.07	0.789	0.955
	FR1 n48	40M	BPSK	1	1	Right Side	15mm	Ant 4	DSI 4	Open	641666	3624.99	23.21	24.00	1.199	-	-	0.02	0.273	0.327
	FR1 n48	40M	BPSK	50	28	Right Side	15mm	Ant 4	DSI 4	Open	641666	3624.99	23.19	24.00	1.205	-	-	0.01	0.242	0.292
	FR1 n48	40M	BPSK	1	1	Top Side	9mm	Ant 4	DSI 4	Open	641666	3624.99	23.21	24.00	1.199	-	-	0.03	0.293	0.351
	FR1 n48	40M	BPSK	50	28	Top Side	9mm	Ant 4	DSI 4	Open	641666	3624.99	23.19	24.00	1.205	-	-	0.02	0.372	0.448
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 12	Open	641666	3624.99	16.05	17.50	1.396	-	-	0.01	0.611	0.853
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 12	Open	638000	3570	16.03	17.50	1.403	-	-	-0.10	0.598	0.839
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 12	Open	645332	3679.98	16.02	17.50	1.406	-	-	0.10	0.592	0.832
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 6	DSI 12	Open	641666	3624.99	16.04	17.50	1.400	-	-	-0.07	0.631	0.883
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 6	DSI 12	Open	638000	3570	16.00	17.50	1.413	-	-	0.14	0.618	0.873
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 6	DSI 12	Open	645332	3679.98	15.98	17.50	1.419	-	-	0.09	0.610	0.866
	FR1 n48	40M	BPSK	100	0	Back Top	0mm	Ant 6	DSI 12	Open	641666	3624.99	15.93	17.50	1.435	-	-	0.02	0.605	0.868
	FR1 n48	40M	BPSK	1	1	Back Right	0mm	Ant 6	DSI 12	Open	641666	3624.99	16.05	17.50	1.396	-	-	0.06	0.071	0.099
	FR1 n48	40M	BPSK	50	28	Back Right	0mm	Ant 6	DSI 12	Open	641666	3624.99	16.04	17.50	1.400	-	-	0.09	0.061	0.085
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 12	Open	641666	3624.99	16.05	17.50	1.396	-	-	0.16	0.474	0.662
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 12	Open	638000	3570	16.03	17.50	1.403	-	-	-0.14	0.470	0.659
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 12	Open	645332	3679.98	16.02	17.50	1.406	-	-	0.17	0.460	0.647
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 6	DSI 12	Open	641666	3624.99	16.04	17.50	1.400	-	-	0.10	0.508	0.711
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 6	DSI 12	Open	638000	3570	16.00	17.50	1.413	-	-	0.05	0.483	0.682
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 6	DSI 12	Open	645332	3679.98	15.98	17.50	1.419	-	-	-0.11	0.502	0.712
	FR1 n48	40M	BPSK	1	1	Right Side	0mm	Ant 6	DSI 4	Open	641666	3624.99	23.43	24.00	1.140	-	-	-0.01	0.065	0.074
	FR1 n48	40M	BPSK	50	28	Right Side	0mm	Ant 6	DSI 4	Open	641666	3624.99	23.40	24.00	1.148	-	-	0.15	0.046	0.053
	FR1 n48	40M	BPSK	1	1	Back top	12mm	Ant 6	DSI 4	Open	641666	3624.99	23.43	24.00	1.140	-	-	0.16	0.473	0.539
	FR1 n48	40M	BPSK	50	28	Back top	12mm	Ant 6	DSI 4	Open	641666	3624.99	23.40	24.00	1.148	-	-	0.16	0.457	0.525
	FR1 n48	40M	BPSK	1	1	Top Side	15mm	Ant 6	DSI 4	Open	641666	3624.99	23.43	24.00	1.140	-	-	-0.15	0.300	0.342
	FR1 n48	40M	BPSK	50	28	Top Side	15mm	Ant 6	DSI 4	Open	641666	3624.99	23.40	24.00	1.148	-	-	-0.11	0.372	0.427
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 12	Open	641666	3624.99	8.71	10.50	1.510	-	-	-0.16	0.537	0.811
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 12	Open	638000	3570	8.68	10.50	1.521	-	-	-0.05	0.536	0.815
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 12	Open	645332	3679.98	8.67	10.50	1.524	-	-	0.07	0.530	0.808



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FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8	DSI 12	Open	641666	3624.99	8.69	10.50	1.517	-	-	0.17	0.551	0.836
FR1 n48	40M	BPSK	100	0	Back Top	0mm	Ant 8	DSI 12	Open	641666	3624.99	8.65	10.50	1.531	-	-	-0.15	0.503	0.770
FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 12	Open	641666	3624.99	8.71	10.50	1.510	-	-	0.05	0.660	0.997
FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 12	Open	638000	3570	8.68	10.50	1.521	-	-	0.10	0.654	0.995
FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 12	Open	645332	3679.98	8.67	10.50	1.524	-	-	-0.09	0.613	0.934
FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8	DSI 12	Open	641666	3624.99	8.69	10.50	1.517	-	-	0.17	0.650	0.986
FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8	DSI 12	Open	638000	3570	8.68	10.50	1.521	-	-	-0.08	0.647	0.984
FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8	DSI 12	Open	645332	3679.98	8.67	10.50	1.524	-	-	-0.04	0.725	1.105
FR1 n48	40M	BPSK	100	0	Top Side	0mm	Ant 8	DSI 12	Open	641666	3624.99	8.65	10.50	1.531	-	-	0.03	0.652	0.998
FR1 n48	40M	BPSK	1	1	Back top	12mm	Ant 8	DSI 4	Open	641666	3624.99	23.15	24.00	1.216	-	-	0.15	0.634	0.771
FR1 n48	40M	BPSK	50	28	Back top	12mm	Ant 8	DSI 4	Open	641666	3624.99	23.11	24.00	1.227	-	-	0.09	0.609	0.747
FR1 n48	40M	BPSK	1	1	Top Side	15mm	Ant 8	DSI 4	Open	641666	3624.99	23.15	24.00	1.216	-	-	-0.12	0.501	0.609
FR1 n48	40M	BPSK	50	28	Top Side	15mm	Ant 8	DSI 4	Open	641666	3624.99	23.11	24.00	1.227	-	-	-0.04	0.456	0.560
FR1 n77 (27Q)	100M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.37	14.30	1.239	-	-	-0.18	0.793	0.983
FR1 n77 (27Q)	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.31	14.30	1.256	-	-	-0.16	0.917	1.152
FR1 n77 (27Q)	100M	BPSK	270	0	Back Right	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.23	14.30	1.279	-	-	0.03	0.881	1.127
FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.37	14.30	1.239	-	-	-0.09	0.389	0.482
FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.31	14.30	1.256	-	-	-0.16	0.424	0.533
FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.37	14.30	1.239	-	-	0.07	0.146	0.181
FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	0mm	Ant 4	DSI 12	Open	633332	3499.98	13.31	14.30	1.256	-	-	-0.07	0.130	0.163
FR1 n77 (27Q)	100M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	633332	3499.98	23.23	24.00	1.194	-	-	0.02	0.855	1.021
FR1 n77 (27Q)	100M	BPSK	135	69	Back Right	14mm	Ant 4	DSI 4	Open	633332	3499.98	23.20	24.00	1.202	-	-	0.03	0.863	1.037
FR1 n77 (27Q)	100M	BPSK	270	0	Back Right	14mm	Ant 4	DSI 4	Open	633332	3499.98	23.16	24.00	1.213	-	-	0.05	0.815	0.989
FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	15mm	Ant 4	DSI 4	Open	633332	3499.98	23.23	24.00	1.194	-	-	0.02	0.335	0.400
FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	15mm	Ant 4	DSI 4	Open	633332	3499.98	23.20	24.00	1.202	-	-	0.01	0.265	0.319
FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	9mm	Ant 4	DSI 4	Open	633332	3499.98	23.23	24.00	1.194	-	-	0.03	0.256	0.306
FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	9mm	Ant 4	DSI 4	Open	633332	3499.98	23.20	24.00	1.202	-	-	0.02	0.226	0.272
FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 12	Open	633332	3499.98	16.34	17.30	1.247	50.0	1.000	0.03	0.905	1.129
FR1 n77 (27Q)	100M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 12	Open	656000	3840	13.40	14.30	1.230	-	-	0.01	0.753	0.926
FR1 n77 (27Q)	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 12	Open	656000	3840	13.38	14.30	1.236	-	-	-0.10	0.740	0.915
FR1 n77 (27Q)	100M	BPSK	270	0	Back Right	0mm	Ant 4	DSI 12	Open	656000	3840	13.28	14.30	1.265	-	-	-0.18	0.721	0.912
FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	656000	3840	13.40	14.30	1.230	-	-	0.18	0.878	1.080
FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	0mm	Ant 4	DSI 12	Open	656000	3840	13.38	14.30	1.236	-	-	-0.01	0.747	0.923
FR1 n77 (27Q)	100M	BPSK	270	0	Right Side	0mm	Ant 4	DSI 12	Open	656000	3840	13.28	14.30	1.265	-	-	-0.18	0.757	0.958
FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 12	Open	656000	3840	13.40	14.30	1.230	-	-	0.05	0.254	0.312
FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	0mm	Ant 4	DSI 12	Open	656000	3840	13.38	14.30	1.236	-	-	-0.14	0.214	0.265
FR1 n77 (27Q)	100M	BPSK	1	1	Back Right	14mm	Ant 4	DSI 4	Open	656000	3840	23.52	24.00	1.117	-	-	0.08	0.615	0.687
FR1 n77 (27Q)	100M	BPSK	135	69	Back Right	14mm	Ant 4	DSI 4	Open	656000	3840	23.48	24.00	1.127	-	-	-0.15	0.621	0.700
FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	15mm	Ant 4	DSI 4	Open	656000	3840	23.52	24.00	1.117	-	-	-0.16	0.271	0.303
FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	15mm	Ant 4	DSI 4	Open	656000	3840	23.48	24.00	1.127	-	-	0.17	0.230	0.259
FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	9mm	Ant 4	DSI 4	Open	656000	3840	23.52	24.00	1.117	-	-	0.15	0.231	0.258
FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	9mm	Ant 4	DSI 4	Open	656000	3840	23.48	24.00	1.127	-	-	0.04	0.226	0.255
FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 12	Open	656000	3840	16.46	17.30	1.213	50.0	1.000	0.07	0.845	1.025
FR1 n77 (27Q)	100M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.42	15.00	1.143	-	-	0.12	0.622	0.711
FR1 n77 (27Q)	100M	BPSK	135	69	Back Top	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.41	15.00	1.146	-	-	-0.10	0.606	0.694
FR1 n77 (27Q)	100M	BPSK	1	1	Back Right	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.42	15.00	1.143	-	-	-0.13	0.054	0.062
FR1 n77 (27Q)	100M	BPSK	135	69	Back Right	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.41	15.00	1.146	-	-	0.09	0.059	0.068
FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.42	15.00	1.143	-	-	0.01	0.753	0.861
FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.41	15.00	1.146	-	-	0.10	0.682	0.782



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	FR1 n77 (27Q)	100M	BPSK	270	0	Top Side	0mm	Ant 6	DSI 12	Open	633332	3499.98	14.36	15.00	1.159	-	-	0.02	0.671	0.778
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	0mm	Ant 6	DSI 4	Open	633332	3499.98	23.34	24.00	1.164	-	-	-0.17	0.044	0.051
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	0mm	Ant 6	DSI 4	Open	633332	3499.98	23.24	24.00	1.191	-	-	0.17	0.043	0.051
	FR1 n77 (27Q)	100M	BPSK	1	1	Back top	12mm	Ant 6	DSI 4	Open	633332	3499.98	23.34	24.00	1.164	-	-	0.10	0.350	0.407
	FR1 n77 (27Q)	100M	BPSK	135	69	Back top	12mm	Ant 6	DSI 4	Open	633332	3499.98	23.24	24.00	1.191	-	-	0.16	0.428	0.510
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	15mm	Ant 6	DSI 4	Open	633332	3499.98	23.34	24.00	1.164	-	-	-0.06	0.208	0.242
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	15mm	Ant 6	DSI 4	Open	633332	3499.98	23.24	24.00	1.191	-	-	-0.10	0.223	0.266
	FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 12	Open	633332	3499.98	17.49	18.00	1.125	50.0	1.000	0.03	0.721	0.811
	FR1 n77 (27Q)	100M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 12	Open	656000	3840	14.48	15.00	1.127	-	-	-0.03	1.120	1.262
	FR1 n77 (27Q)	100M	BPSK	135	69	Back Top	0mm	Ant 6	DSI 12	Open	656000	3840	14.49	15.00	1.125	-	-	-0.19	0.966	1.087
	FR1 n77 (27Q)	100M	BPSK	270	0	Back Top	0mm	Ant 6	DSI 12	Open	656000	3840	14.42	15.00	1.143	-	-	0.03	0.956	1.093
	FR1 n77 (27Q)	100M	BPSK	1	1	Back Right	0mm	Ant 6	DSI 12	Open	656000	3840	14.48	15.00	1.127	-	-	0.18	0.116	0.131
	FR1 n77 (27Q)	100M	BPSK	135	69	Back Right	0mm	Ant 6	DSI 12	Open	656000	3840	14.49	15.00	1.125	-	-	0.15	0.097	0.109
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 12	Open	656000	3840	14.48	15.00	1.127	-	-	-0.11	0.676	0.762
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	0mm	Ant 6	DSI 12	Open	656000	3840	14.49	15.00	1.125	-	-	-0.12	0.691	0.777
	FR1 n77 (27Q)	100M	BPSK	270	0	Top Side	0mm	Ant 6	DSI 12	Open	656000	3840	14.42	15.00	1.143	-	-	0.02	0.661	0.756
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	0mm	Ant 6	DSI 4	Open	656000	3840	23.40	24.00	1.148	-	-	0.05	0.133	0.153
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	0mm	Ant 6	DSI 4	Open	656000	3840	23.34	24.00	1.164	-	-	-0.14	0.110	0.128
	FR1 n77 (27Q)	100M	BPSK	1	1	Back top	12mm	Ant 6	DSI 4	Open	656000	3840	23.40	24.00	1.148	-	-	-0.05	0.287	0.329
	FR1 n77 (27Q)	100M	BPSK	135	69	Back top	12mm	Ant 6	DSI 4	Open	656000	3840	23.34	24.00	1.164	-	-	0.10	0.246	0.286
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	15mm	Ant 6	DSI 4	Open	656000	3840	23.40	24.00	1.148	-	-	-0.15	0.176	0.202
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	15mm	Ant 6	DSI 4	Open	656000	3840	23.34	24.00	1.164	-	-	-0.19	0.156	0.182
	FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 6	DSI 12	Open	656000	3840	17.49	18.00	1.125	50.0	1.000	0.15	1.020	1.148
	FR1 n77 (27Q)	100M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 12	Open	633332	3499.98	10.63	11.20	1.140	-	-	0.19	0.907	1.034
	FR1 n77 (27Q)	100M	BPSK	135	69	Back Top	0mm	Ant 8	DSI 12	Open	633332	3499.98	10.60	11.20	1.148	-	-	-0.02	1.010	1.159
	FR1 n77 (27Q)	100M	BPSK	270	0	Back Top	0mm	Ant 8	DSI 12	Open	633332	3499.98	10.56	11.20	1.159	-	-	0.03	0.908	1.052
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 12	Open	633332	3499.98	10.63	11.20	1.140	-	-	0.13	0.832	0.948
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	0mm	Ant 8	DSI 12	Open	633332	3499.98	10.60	11.20	1.148	-	-	-0.17	0.935	1.073
	FR1 n77 (27Q)	100M	BPSK	270	0	Top Side	0mm	Ant 8	DSI 12	Open	633332	3499.98	10.56	11.20	1.159	-	-	0.11	0.752	0.872
	FR1 n77 (27Q)	100M	BPSK	1	1	Back top	12mm	Ant 8	DSI 4	Open	633332	3499.98	23.48	24.00	1.127	-	-	0.03	0.956	1.077
	FR1 n77 (27Q)	100M	BPSK	135	69	Back top	12mm	Ant 8	DSI 4	Open	633332	3499.98	23.40	24.00	1.148	-	-	-0.13	0.953	1.094
	FR1 n77 (27Q)	100M	BPSK	270	0	Back top	12mm	Ant 8	DSI 4	Open	633332	3499.98	23.35	24.00	1.161	-	-	0.03	0.923	1.072
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	15mm	Ant 8	DSI 4	Open	633332	3499.98	23.48	24.00	1.127	-	-	-0.16	0.742	0.836
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	15mm	Ant 8	DSI 4	Open	633332	3499.98	23.40	24.00	1.148	-	-	0.13	0.903	1.037
	FR1 n77 (27Q)	100M	BPSK	270	0	Top Side	15mm	Ant 8	DSI 4	Open	633332	3499.98	23.35	24.00	1.161	-	-	0.02	0.856	0.994
	FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8	DSI 12	Open	633332	3499.98	13.63	14.20	1.140	50.0	1.000	0.02	0.921	1.050
112	FR1 n77 (27Q)	100M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 12	Open	656000	3840	10.75	11.20	1.109	-	-	0.08	1.140	1.264
	FR1 n77 (27Q)	100M	BPSK	135	69	Back Top	0mm	Ant 8	DSI 12	Open	656000	3840	10.73	11.20	1.114	-	-	0.10	0.941	1.048
	FR1 n77 (27Q)	100M	BPSK	270	0	Back Top	0mm	Ant 8	DSI 12	Open	656000	3840	10.60	11.20	1.148	-	-	0.03	0.925	1.062
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 12	Open	656000	3840	10.75	11.20	1.109	-	-	0.15	0.947	1.050
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	0mm	Ant 8	DSI 12	Open	656000	3840	10.73	11.20	1.114	-	-	0.04	0.827	0.921
	FR1 n77 (27Q)	100M	BPSK	270	0	Top Side	0mm	Ant 8	DSI 12	Open	656000	3840	10.60	11.20	1.148	-	-	0.11	0.844	0.969
	FR1 n77 (27Q)	100M	BPSK	1	1	Back top	12mm	Ant 8	DSI 4	Open	656000	3840	23.49	24.00	1.125	-	-	0.10	1.060	1.193
	FR1 n77 (27Q)	100M	BPSK	135	69	Back top	12mm	Ant 8	DSI 4	Open	656000	3840	23.34	24.00	1.164	-	-	0.11	1.050	1.222
	FR1 n77 (27Q)	100M	BPSK	270	0	Back top	12mm	Ant 8	DSI 4	Open	656000	3840	23.30	24.00	1.175	-	-	0.01	0.921	1.082
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	15mm	Ant 8	DSI 4	Open	656000	3840	23.49	24.00	1.125	-	-	-0.12	0.917	1.032
	FR1 n77	100M	BPSK	135	69	Top Side	15mm	Ant 8	DSI 4	Open	656000	3840	23.34	24.00	1.164	-	-	-0.06	0.817	0.951



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	(270)																			
	FR1 n77 (270)	100M	BPSK	270	0	Top Side	15mm	Ant 8	DSI 4	Open	656000	3840	23.30	24.00	1.175	-	-	0.03	0.823	0.967
	FR1 n77 (270) HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 12	Open	656000	3840	13.75	14.20	1.109	50.0	1.000	0.02	1.030	1.142

Ant1

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Configuration	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	0.12	0.156	0.204
	LTE Band 71	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	0.08	0.153	0.201
	LTE Band 71	20M	QPSK	1	0	-	Back 1	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	-0.17	0.126	0.165
	LTE Band 71	20M	QPSK	50	0	-	Back 1	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	-0.03	0.141	0.185
113	LTE Band 71	20M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	-0.17	0.559	0.732
	LTE Band 71	20M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	133222	673	open	19.61	20.80	1.315	0.14	0.379	0.498
	LTE Band 71	20M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	133372	688	open	19.59	20.80	1.321	0.11	0.490	0.647
	LTE Band 71	20M	QPSK	50	0	-	Back Right	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	-0.05	0.537	0.706
	LTE Band 71	20M	QPSK	50	0	-	Back Right	0mm	Ant 1	DSI 12	133372	673	open	19.48	20.80	1.355	0.18	0.360	0.488
	LTE Band 71	20M	QPSK	50	0	-	Back Right	0mm	Ant 1	DSI 12	133297	688	open	19.53	20.80	1.340	0.14	0.492	0.659
	LTE Band 71	20M	QPSK	100	0	-	Back Right	0mm	Ant 1	DSI 12	133222	680.5	open	19.55	20.80	1.334	-0.17	0.502	0.670
	LTE Band 71	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	0.17	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	-0.05	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	0.01	0.402	0.526
	LTE Band 71	20M	QPSK	50	0	-	Right Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	0.1	0.406	0.534
	LTE Band 71	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	-0.17	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	0.04	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.63	20.80	1.309	-0.01	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	DSI 12	133297	680.5	open	19.61	20.80	1.315	-0.08	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	0.17	0.258	0.369
	LTE Band 12	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	-0.15	0.279	0.400
	LTE Band 12	10M	QPSK	1	0	-	Back 1	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	0.18	0.248	0.354
	LTE Band 12	10M	QPSK	25	0	-	Back 1	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	0.05	0.250	0.359
114	LTE Band 12	10M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	-0.07	0.731	1.045
	LTE Band 12	10M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	23060	711	open	20.10	21.70	1.445	0.04	0.601	0.868
	LTE Band 12	10M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	23130	707.5	open	20.11	21.70	1.442	0.15	0.590	0.851
	LTE Band 12	10M	QPSK	25	0	-	Back Right	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	0.03	0.578	0.829
	LTE Band 12	10M	QPSK	25	0	-	Back Right	0mm	Ant 1	DSI 12	23060	711	open	19.98	21.70	1.486	-0.1	0.616	0.915
	LTE Band 12	10M	QPSK	25	0	-	Back Right	0mm	Ant 1	DSI 12	23130	707.5	open	20.03	21.70	1.469	0.14	0.550	0.808
	LTE Band 12	10M	QPSK	50	0	-	Back Right	0mm	Ant 1	DSI 12	23095	707.5	open	20.07	21.70	1.455	-0.16	0.524	0.762
	LTE Band 12	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	-0.02	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	0.1	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	-0.1	0.554	0.792
	LTE Band 12	10M	QPSK	25	0	-	Right Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	-0.05	0.542	0.778
	LTE Band 12	10M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	-0.04	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Top Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	0.01	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.15	21.70	1.429	-0.09	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 1	DSI 12	23095	707.5	open	20.13	21.70	1.435	0.03	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	-0.15	0.235	0.311
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	0.06	0.240	0.322
	LTE Band 13	10M	QPSK	1	0	-	Back 1	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	0.15	0.217	0.287
	LTE Band 13	10M	QPSK	25	0	-	Back 1	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	-0.1	0.238	0.319
115	LTE Band 13	10M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	0.01	0.726	0.961
	LTE Band 13	10M	QPSK	25	0	-	Back Right	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	0.17	0.693	0.929
	LTE Band 13	10M	QPSK	50	0	-	Back Right	0mm	Ant 1	DSI 12	23230	782	open	20.05	21.40	1.365	0.13	0.653	0.891
	LTE Band 13	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	-0.02	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	0	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	0.1	0.541	0.716



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	LTE Band 13	10M	QPSK	25	0	-	Right Side	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	0.13	0.539	0.722
	LTE Band 13	10M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	-0.04	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Top Side	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	-0.12	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 12	23230	782	open	20.18	21.40	1.324	-0.07	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 1	DSI 12	23230	782	open	20.13	21.40	1.340	-0.03	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	-0.11	0.187	0.234
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	0.07	0.194	0.244
	LTE Band 14	10M	QPSK	1	0	-	Back 1	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	0	0.174	0.218
	LTE Band 14	10M	QPSK	25	0	-	Back 1	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	-0.12	0.181	0.227
116	LTE Band 14	10M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	0.07	0.575	0.719
	LTE Band 14	10M	QPSK	25	0	-	Back Right	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	0.19	0.531	0.667
	LTE Band 14	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	-0.01	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Left Side	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	-0.19	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	-0.03	0.537	0.671
	LTE Band 14	10M	QPSK	25	0	-	Right Side	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	-0.08	0.520	0.653
	LTE Band 14	10M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	0.1	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Top Side	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	0.15	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 12	23330	793	open	20.63	21.60	1.250	0.12	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 1	DSI 12	23330	793	open	20.61	21.60	1.256	-0.12	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	-0.05	0.154	0.202
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	-0.12	0.173	0.227
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	0.18	0.216	0.283
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	0.14	0.194	0.255
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	0.03	0.552	0.723
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	0.09	0.601	0.789
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	-0.13	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	-0.09	0.001	0.001
117	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	0.02	0.717	0.939
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	-0.18	0.657	0.862
	FR1 n71	35M	BPSK	180	0	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.76	21.00	1.330	0.12	0.670	0.891
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	0.11	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	0.11	0.001	0.001
	FR1 n71	35M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.83	21.00	1.309	-0.06	0.001	0.001
	FR1 n71	35M	BPSK	90	45	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	136100	680.5	open	19.82	21.00	1.312	-0.02	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	-0.11	0.155	0.207
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	-0.11	0.144	0.193
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	-0.05	0.140	0.187
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	0.03	0.152	0.203
118	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	-0.03	0.480	0.640
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	-0.06	0.417	0.558
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	0.01	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	-0.03	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	0.03	0.424	0.566
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	-0.17	0.401	0.536
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	0.02	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	-0.11	0.001	0.001
	FR1 n12	15M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.35	20.60	1.334	0.18	0.001	0.001
	FR1 n12	15M	BPSK	36	22	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	141500	707.5	open	19.34	20.60	1.337	0.16	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	0.12	0.171	0.233
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	0.19	0.185	0.254
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	-0.09	0.161	0.220
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	-0.12	0.162	0.222
119	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	0.03	0.642	0.876
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	0.07	0.602	0.825
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	-0.18	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	-0.06	0.001	0.001



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	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	0.07	0.563	0.768
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	-0.15	0.504	0.691
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	-0.15	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	-0.08	0.001	0.001
	FR1 n13	10M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	156400	782	open	20.45	21.80	1.365	-0.04	0.001	0.001
	FR1 n13	10M	BPSK	25	14	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	156400	782	open	20.43	21.80	1.371	0.02	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	-0.07	0.160	0.204
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	-0.05	0.139	0.178
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	-0.04	0.141	0.180
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	0.13	0.136	0.174
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	-0.03	0.468	0.596
120	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	0.02	0.496	0.634
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	0.09	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	0.06	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	-0.04	0.429	0.547
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	0.17	0.434	0.555
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	0.06	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	0.01	0.001	0.001
	FR1 n14	10M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	158600	793	open	20.35	21.40	1.274	-0.11	0.001	0.001
	FR1 n14	10M	BPSK	25	14	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	158600	793	open	20.33	21.40	1.279	0.03	0.001	0.001
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	-0.02	0.194	0.267
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back 1	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	0.15	0.182	0.251
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back Right	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	-0.08	0.889	1.224
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back Right	0mm	Ant 1	DSI 12	128	824.2	open	24.17	25.60	1.390	0.06	0.635	0.883
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back Right	0mm	Ant 1	DSI 12	251	848.8	open	24.09	25.60	1.416	0.15	0.715	1.012
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	-0.08	0.002	0.003
121	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	0.03	0.893	1.230
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	0mm	Ant 1	DSI 12	128	824.2	open	24.17	25.60	1.390	-0.05	0.467	0.649
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	0mm	Ant 1	DSI 12	251	848.8	open	24.09	25.60	1.416	-0.18	0.660	0.935
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	-0.08	0.001	0.001
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	DSI 12	189	836.4	open	24.21	25.60	1.377	0.18	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 12	4182	836.4	open	20.21	21.50	1.346	0.04	0.225	0.303
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back 1	0mm	Ant 1	DSI 12	4182	826.4	open	20.21	21.50	1.346	-0.09	0.198	0.267
122	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back Right	0mm	Ant 1	DSI 12	4182	826.4	open	20.21	21.50	1.346	0.05	0.789	1.062
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back Right	0mm	Ant 1	DSI 12	4132	846.6	open	20.17	21.50	1.358	0	0.766	1.040
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back Right	0mm	Ant 1	DSI 12	4233	836.4	open	20.10	21.50	1.380	0.11	0.679	0.937
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 12	4182	836.4	open	20.21	21.50	1.346	0.14	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	0mm	Ant 1	DSI 12	4182	836.4	open	20.21	21.50	1.346	-0.15	0.723	0.973
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	0mm	Ant 1	DSI 12	4132	846.6	open	20.17	21.50	1.358	0.02	0.758	1.029
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	0mm	Ant 1	DSI 12	4233	836.4	open	20.10	21.50	1.380	-0.03	0.698	0.963
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 12	4182	836.4	open	20.21	21.50	1.346	-0.16	0.001	0.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 12	4182	836.4	open	20.21	21.50	1.346	-0.02	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	0.17	0.159	0.218
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	0.18	0.175	0.244
	LTE Band 26	15M	QPSK	1	0	-	Back 1	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	0.03	0.149	0.204
	LTE Band 26	15M	QPSK	36	0	-	Back 1	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	0.01	0.152	0.212
	LTE Band 26	15M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	0.04	0.606	0.831
	LTE Band 26	15M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	26765	821.5	open	19.98	21.40	1.387	-0.16	0.483	0.670
	LTE Band 26	15M	QPSK	1	0	-	Back Right	0mm	Ant 1	DSI 12	26965	841.5	open	19.95	21.40	1.396	-0.12	0.575	0.803
	LTE Band 26	15M	QPSK	36	0	-	Back Right	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	-0.08	0.585	0.817
	LTE Band 26	15M	QPSK	36	0	-	Back Right	0mm	Ant 1	DSI 12	26765	821.5	open	19.83	21.40	1.435	-0.18	0.443	0.636
	LTE Band 26	15M	QPSK	36	0	-	Back Right	0mm	Ant 1	DSI 12	26965	841.5	open	19.85	21.40	1.429	-0.13	0.552	0.789



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	LTE Band 26	15M	QPSK	75	0	-	Back Right	0mm	Ant 1	DSI 12	26865	831.5	open	19.93	21.40	1.403	-0.03	0.573	0.804
	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	0.02	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Left Side	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	0.02	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	0.05	0.632	0.866
	LTE Band 26	15M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	26765	821.5	open	19.98	21.40	1.387	0.11	0.608	0.843
	LTE Band 26	15M	QPSK	1	0	-	Right Side	0mm	Ant 1	DSI 12	26965	841.5	open	19.95	21.40	1.396	-0.17	0.597	0.833
	LTE Band 26	15M	QPSK	36	0	-	Right Side	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	-0.04	0.551	0.769
	LTE Band 26	15M	QPSK	75	0	-	Right Side	0mm	Ant 1	DSI 12	26865	831.5	open	19.93	21.40	1.403	-0.17	0.594	0.833
	LTE Band 26	15M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	-0.07	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Top Side	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	0.04	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI 12	26865	831.5	open	20.03	21.40	1.371	0.01	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	0mm	Ant 1	DSI 12	26865	831.5	open	19.95	21.40	1.396	0.04	0.001	0.001
	LTE Band 5	10M	QPSK	1	49	-	Right Side	0mm	Ant 1	DSI 12	20476+20575	831.5+841.5	open	19.85	21.40	1.429	0.03	0.601	0.859
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	0.03	0.154	0.209
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	-0.03	0.142	0.194
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	0.09	0.121	0.164
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back 1	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	-0.13	0.124	0.170
123	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	-0.02	0.555	0.754
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Back Right	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	-0.17	0.495	0.677
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	-0.1	0.001	0.001
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Left Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	0.1	0.001	0.001
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	0.17	0.510	0.693
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Right Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	-0.06	0.479	0.655
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	0.07	0.001	0.001
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Top Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	0.11	0.001	0.001
	FR1 n26	20M	BPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.47	20.80	1.358	-0.18	0.001	0.001
	FR1 n26	20M	BPSK	50	28	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	DSI 12	166300	831.5	open	19.44	20.80	1.368	0.11	0.001	0.001

MIMO SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	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)
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.27	13.00	1.489	100	1.000	0.14	0.525	0.782
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.16	13.00	1.527	100	1.000	0.1	0.517	0.789
	FR1 n48	40M	BPSK	1	1	Right Side	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.27	13.00	1.489	100	1.000	-0.09	0.151	0.225
	FR1 n48	40M	BPSK	50	28	Right Side	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.16	13.00	1.527	100	1.000	0.07	0.219	0.334
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.27	13.00	1.489	100	1.000	-0.09	0.593	0.883
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 12	Open	638000	3570	11.21	13.00	1.510	100	1.000	-0.16	0.643	0.971
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 12	Open	645332	3679.98	11.14	13.00	1.535	100	1.000	-0.18	0.404	0.62
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.16	13.00	1.527	100	1.000	-0.07	0.698	1.066
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+4	DSI 12	Open	638000	3570	11.13	13.00	1.538	100	1.000	0.11	0.428	0.658
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+4	DSI 12	Open	645332	3679.98	11.23	13.00	1.503	100	1.000	-0.08	0.552	0.83
	FR1 n48	40M	BPSK	100	0	Top Side	0mm	Ant 8+4	DSI 12	Open	641666	3624.99	11.15	13.00	1.531	100	1.000	-0.1	0.549	0.841
	FR1 n48	40M	BPSK	1	1	Back Top	11mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.19	27.00	1.205	100	1.000	-0.01	0.805	0.97
	FR1 n48	40M	BPSK	1	1	Back Top	11mm	Ant 8+4	DSI 4	Open	638000	3570	26.15	27.00	1.216	100	1.000	-0.09	0.755	0.918
	FR1 n48	40M	BPSK	1	1	Back Top	11mm	Ant 8+4	DSI 4	Open	645332	3679.98	26.18	27.00	1.209	100	1.000	-0.06	0.751	0.908
	FR1 n48	40M	BPSK	50	28	Back Top	11mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.16	27.00	1.213	100	1.000	-0.17	0.831	1.008
	FR1 n48	40M	BPSK	50	28	Back Top	11mm	Ant 8+4	DSI 4	Open	638000	3570	26.14	27.00	1.219	100	1.000	-0.01	0.825	1.006
	FR1 n48	40M	BPSK	50	28	Back Top	11mm	Ant 8+4	DSI 4	Open	645332	3679.98	26.12	27.00	1.224	100	1.000	-0.11	0.811	0.993
	FR1 n48	40M	BPSK	100	0	Back Top	11mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.12	27.00	1.226	100	1.000	0.14	0.785	0.962
	FR1 n48	40M	BPSK	1	1	Right Side	9mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.19	27.00	1.205	100	1.000	0.03	0.601	0.724
	FR1 n48	40M	BPSK	50	28	Right Side	9mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.16	27.00	1.213	100	1.000	0.1	0.622	0.754
	FR1 n48	40M	BPSK	1	1	Top Side	15mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.19	27.00	1.205	100	1.000	0.16	0.631	0.76
	FR1 n48	40M	BPSK	50	28	Top Side	15mm	Ant 8+4	DSI 4	Open	641666	3624.99	26.16	27.00	1.213	100	1.000	-0.06	0.625	0.758
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 12	Open	641666	3624.99	11.72	13.50	1.507	100	1.000	-0.16	0.508	0.766
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+6	DSI 12	Open	641666	3624.99	11.70	13.50	1.513	100	1.000	0.05	0.522	0.79



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	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 12	Open	641666	3624.99	11.72	13.50	1.507	100	1.000	-0.03	0.600	0.904
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 12	Open	638000	3570	11.69	13.50	1.517	100	1.000	0.17	0.718	1.089
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 12	Open	645332	3679.98	11.68	13.50	1.520	100	1.000	-0.15	0.703	1.069
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+6	DSI 12	Open	641666	3624.99	11.70	13.50	1.513	100	1.000	0.16	0.598	0.905
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+6	DSI 12	Open	638000	3570	11.69	13.50	1.517	100	1.000	0.05	0.518	0.786
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+6	DSI 12	Open	645332	3679.98	11.68	13.50	1.520	100	1.000	-0.06	0.709	1.078
	FR1 n48	40M	BPSK	100	0	Top Side	0mm	Ant 8+6	DSI 12	Open	641666	3624.99	11.66	13.50	1.527	100	1.000	-0.13	0.547	0.835
	FR1 n48	40M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.30	27.00	1.174	100	1.000	-0.01	0.921	1.081
	FR1 n48	40M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	638000	3570	26.25	27.00	1.189	100	1.000	0.03	0.901	1.071
	FR1 n48	40M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	645332	3679.98	26.25	27.00	1.188	100	1.000	0.05	0.856	1.017
	FR1 n48	40M	BPSK	50	28	Back Top	11mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.27	27.00	1.184	100	1.000	-0.11	0.905	1.072
	FR1 n48	40M	BPSK	50	28	Back Top	11mm	Ant 8+6	DSI 4	Open	638000	3570	26.23	27.00	1.194	100	1.000	0.06	0.901	1.076
	FR1 n48	40M	BPSK	50	28	Back Top	11mm	Ant 8+6	DSI 4	Open	645332	3679.98	26.21	27.00	1.200	100	1.000	0.02	0.835	1.002
	FR1 n48	40M	BPSK	100	0	Back Top	11mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.23	27.00	1.194	100	1.000	0.01	0.841	1.004
	FR1 n48	40M	BPSK	1	1	Right Side	11mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.30	27.00	1.174	100	1.000	0.19	0.244	0.286
	FR1 n48	40M	BPSK	50	28	Right Side	11mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.27	27.00	1.184	100	1.000	-0.14	0.190	0.225
	FR1 n48	40M	BPSK	1	1	Top Side	15mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.30	27.00	1.174	100	1.000	-0.18	0.859	1.008
	FR1 n48	40M	BPSK	1	1	Top Side	15mm	Ant 8+6	DSI 4	Open	638000	3570	26.25	27.00	1.189	100	1.000	0.03	0.825	0.981
	FR1 n48	40M	BPSK	1	1	Top Side	15mm	Ant 8+6	DSI 4	Open	645332	3679.98	26.25	27.00	1.188	100	1.000	0.02	0.821	0.975
	FR1 n48	40M	BPSK	50	28	Top Side	15mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.27	27.00	1.184	100	1.000	-0.06	0.894	1.058
	FR1 n48	40M	BPSK	50	28	Top Side	15mm	Ant 8+6	DSI 4	Open	638000	3570	26.23	27.00	1.194	100	1.000	0.03	0.846	1.01
	FR1 n48	40M	BPSK	50	28	Top Side	15mm	Ant 8+6	DSI 4	Open	645332	3679.98	26.21	27.00	1.200	100	1.000	0.01	0.831	0.997
	FR1 n48	40M	BPSK	100	0	Top Side	15mm	Ant 8+6	DSI 4	Open	641666	3624.99	26.23	27.00	1.194	100	1.000	0.02	0.821	0.98
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.64	14.20	1.138	50	1.000	0.16	0.728	0.828
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.61	14.20	1.145	50	1.000	0.01	0.767	0.878
	FR1 n77_HPUE	100M	BPSK	270	0	Back Top	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.57	14.20	1.156	50	1.000	-0.04	0.594	0.687
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.64	14.20	1.138	50	1.000	0.13	0.168	0.191
	FR1 n77_HPUE	100M	BPSK	135	69	Right Side	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.61	14.20	1.145	50	1.000	0.12	0.160	0.183
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.64	14.20	1.138	50	1.000	0.07	0.555	0.632
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	13.61	14.20	1.145	50	1.000	0.08	0.604	0.692
	FR1 n77_HPUE_PC1.5	100M	BPSK	135	69	Back Top	0mm	Ant 8+4	DSI 12	Open	633332	3499.98	16.64	17.20	1.138	50	1.000	0.19	0.741	0.843
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	11mm	Ant 8+4	DSI 4	Open	633332	3499.98	26.37	27.00	1.157	50	1.000	-0.06	0.461	0.533
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	11mm	Ant 8+4	DSI 4	Open	633332	3499.98	26.31	27.00	1.172	50	1.000	0	0.464	0.544
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	9mm	Ant 8+4	DSI 4	Open	633332	3499.98	26.37	27.00	1.157	50	1.000	-0.03	0.219	0.253
	FR1 n77_HPUE	100M	BPSK	135	69	Right Side	9mm	Ant 8+4	DSI 4	Open	633332	3499.98	26.31	27.00	1.172	50	1.000	0.07	0.174	0.204
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	15mm	Ant 8+4	DSI 4	Open	633332	3499.98	26.37	27.00	1.157	50	1.000	-0.12	0.257	0.297
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	15mm	Ant 8+4	DSI 4	Open	633332	3499.98	26.31	27.00	1.172	50	1.000	-0.03	0.280	0.328
	FR1 n77_HPUE_PC1.5	100M	BPSK	135	69	Back Top	11mm	Ant 8+4	DSI 4	Open	633332	3499.98	29.31	30.00	1.173	50	1.000	0.02	0.477	0.56
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.64	14.20	1.138	50	1.000	0.02	0.790	0.899
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.61	14.20	1.145	50	1.000	-0.03	0.625	0.716
	FR1 n77_HPUE	100M	BPSK	270	0	Back Top	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.57	14.20	1.156	50	1.000	0	0.529	0.612
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.64	14.20	1.138	50	1.000	-0.1	0.038	0.043
	FR1 n77_HPUE	100M	BPSK	135	69	Right Side	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.61	14.20	1.145	50	1.000	0.05	0.036	0.041
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.64	14.20	1.138	50	1.000	0	0.843	0.959
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.61	14.20	1.145	50	1.000	0.07	0.652	0.747
	FR1 n77_HPUE	100M	BPSK	270	0	Top Side	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	13.57	14.20	1.156	50	1.000	0.15	0.680	0.786
	FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 12	Open	633332	3499.98	16.66	17.20	1.132	50	1.000	-0.05	0.762	0.863
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	633332	3499.98	26.42	27.00	1.143	50	1.000	-0.08	0.490	0.56
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	11mm	Ant 8+6	DSI 4	Open	633332	3499.98	26.33	27.00	1.167	50	1.000	-0.08	0.435	0.508
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	15mm	Ant 8+6	DSI 4	Open	633332	3499.98	26.42	27.00	1.143	50	1.000	-0.13	0.259	0.296
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	15mm	Ant 8+6	DSI 4	Open	633332	3499.98	26.33	27.00	1.167	50	1.000	0.01	0.232	0.271
	FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	633332	3499.98	29.41	30.00	1.147	50	1.000	-0.11	0.419	0.481
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.76	14.20	1.107	50	1.000	-0.05	0.617	0.683
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.74	14.20	1.112	50	1.000	0.14	0.613	0.682
	FR1 n77_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.76	14.20	1.107	50	1.000	-0.01	0.095	0.105
	FR1 n77_HPUE	100M	BPSK	135	69	Right Side	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.74	14.20	1.112	50	1.000	-0.12	0.073	0.081



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FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.76	14.20	1.107	50	1.000	0.07	0.757	0.838
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.74	14.20	1.112	50	1.000	0.09	0.759	0.844
FR1 n77_HPUE	100M	BPSK	270	0	Top Side	0mm	Ant 8+4	DSI 12	Open	656000	3840	13.61	14.20	1.145	50	1.000	0.04	0.706	0.808
FR1 n77_HPUE_PC1.5	100M	BPSK	135	69	Top Side	0mm	Ant 8+4	DSI 12	Open	656000	3840	16.74	17.20	1.112	50	1.000	0.11	0.711	0.791
FR1 n77_HPUE	100M	BPSK	1	1	Back Top	11mm	Ant 8+4	DSI 4	Open	656000	3840	26.52	27.00	1.118	50	1.000	-0.13	0.365	0.408
FR1 n77_HPUE	100M	BPSK	135	69	Back Top	11mm	Ant 8+4	DSI 4	Open	656000	3840	26.42	27.00	1.143	50	1.000	0.12	0.321	0.367
FR1 n77_HPUE	100M	BPSK	1	1	Right Side	9mm	Ant 8+4	DSI 4	Open	656000	3840	26.52	27.00	1.118	50	1.000	-0.11	0.117	0.131
FR1 n77_HPUE	100M	BPSK	135	69	Right Side	9mm	Ant 8+4	DSI 4	Open	656000	3840	26.42	27.00	1.143	50	1.000	0.17	0.100	0.114
FR1 n77_HPUE	100M	BPSK	1	1	Top Side	15mm	Ant 8+4	DSI 4	Open	656000	3840	26.52	27.00	1.118	50	1.000	-0.16	0.211	0.236
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	15mm	Ant 8+4	DSI 4	Open	656000	3840	26.42	27.00	1.143	50	1.000	-0.17	0.189	0.216
FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	11mm	Ant 8+4	DSI 4	Open	656000	3840	29.50	30.00	1.123	50	1.000	0.11	0.307	0.345
FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.76	14.20	1.107	50	1.000	-0.01	0.640	0.708
FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.74	14.20	1.112	50	1.000	-0.14	0.639	0.711
FR1 n77_HPUE	100M	BPSK	1	1	Right Side	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.76	14.20	1.107	50	1.000	-0.15	0.001	0.001
FR1 n77_HPUE	100M	BPSK	135	69	Right Side	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.74	14.20	1.112	50	1.000	-0.12	0.001	0.001
FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.76	14.20	1.107	50	1.000	-0.17	1.010	1.118
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.74	14.20	1.112	50	1.000	0.08	1.020	1.134
FR1 n77_HPUE	100M	BPSK	270	0	Top Side	0mm	Ant 8+6	DSI 12	Open	656000	3840	13.61	14.20	1.145	50	1.000	0.01	0.985	1.128
FR1 n77_HPUE_PC1.5	100M	BPSK	135	69	Top Side	0mm	Ant 8+6	DSI 12	Open	656000	3840	16.74	17.20	1.112	50	1.000	0.02	0.797	0.886
FR1 n77_HPUE	100M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	656000	3840	26.46	27.00	1.134	50	1.000	-0.11	0.418	0.474
FR1 n77_HPUE	100M	BPSK	135	69	Back Top	11mm	Ant 8+6	DSI 4	Open	656000	3840	26.35	27.00	1.161	50	1.000	-0.01	0.366	0.425
FR1 n77_HPUE	100M	BPSK	1	1	Top Side	15mm	Ant 8+6	DSI 4	Open	656000	3840	26.46	27.00	1.134	50	1.000	0.09	0.268	0.304
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	15mm	Ant 8+6	DSI 4	Open	656000	3840	26.35	27.00	1.161	50	1.000	0.1	0.242	0.281
FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	11mm	Ant 8+6	DSI 4	Open	656000	3840	29.51	30.00	1.121	50	1.000	-0.04	0.382	0.428

LTE CA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	99	Top Side	0mm	Ant 3	DSI 12	Open	18900+18900	1880+1899.8	14.55	16.30	1.496	0.05	0.851	1.273
	LTE Band 2	20M	QPSK	1	99	Right Side	0mm	Ant 4	DSI 12	Open	18900+18900	1880+1899.8	14.75	16.70	1.567	0.03	0.804	1.260

NRCA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Maximum Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41	100M	BPSK	144	129	Back Top	0mm	Ant 3	DSI 12	Open	509598+528582	2547.99+2642.91	11.98	13.50	1.419	100.0	1.000	100.0	0.02	0.869	1.233
	FR1 n41	100M	BPSK	144	129	Right Side	0mm	Ant 4	DSI 12	Open	509598+528582	2547.99+2642.91	14.09	15.00	1.233	100.0	1.000	100.0	0.05	0.923	1.138
	FR1 n77	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 12	Open	644000+648328	3660+3724.92	13.21	14.30	1.285	100.0	1.000	100.0	0.03	0.856	1.100
	FR1 n77 HPUE	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 12	Open	644000+648328	3660+3724.92	16.15	17.30	1.303	50.0	1.000	50.0	0.03	0.841	1.096
	FR1 n77	100M	BPSK	162	108	Back Top	0mm	Ant 6	DSI 12	Open	644000+648328	3660+3724.92	14.25	15.00	1.189	100.0	1.000	100.0	0.02	1.010	1.201
	FR1 n77	100M	BPSK	162	108	Back Top	0mm	Ant 8	DSI 12	Open	644000+648328	3660+3724.92	10.45	11.20	1.189	100.0	1.000	100.0	0.03	1.040	1.237
	FR1 n77 HPUE	100M	BPSK	162	108	Back Top	0mm	Ant 8	DSI 12	Open	644000+648328	3660+3724.92	13.35	14.20	1.216	50.0	1.000	50.0	0.05	0.951	1.156



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Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	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)
124	2.4GHz WLAN	802.11b 1Mbps	Back Top	0mm	Ant 7+11(7)	DSI 12	Open	6	2437	14.48	15.50	1.265	97.1	1.030	-0.11	1.030	1.342
	2.4GHz WLAN	802.11b 1Mbps	Back Top	0mm	Ant 7+11(7)	DSI 12	Open	1	2412	14.41	15.50	1.285	97.1	1.030	0.13	0.612	0.810
	2.4GHz WLAN	802.11b 1Mbps	Back Top	0mm	Ant 7+11(7)	DSI 12	Open	11	2462	14.35	15.50	1.303	97.1	1.030	-0.03	0.564	0.757
	2.4GHz WLAN	802.11b 1Mbps	Back Right	0mm	Ant 7+11(7)	DSI 12	Open	6	2437	14.48	15.50	1.265	97.1	1.030	-0.03	0.372	0.485
	2.4GHz WLAN	802.11b 1Mbps	Back 1	0mm	Ant 7+11(7)	DSI 12	Open	6	2437	14.48	15.50	1.265	97.1	1.030	0.16	0.247	0.322
	2.4GHz WLAN	802.11b 1Mbps	Right Side	0mm	Ant 7+11(7)	DSI 12	Open	6	2437	14.48	15.50	1.265	97.1	1.030	0.01	0.498	0.649
	2.4GHz WLAN	802.11b 1Mbps	Top Side	0mm	Ant 7+11(7)	DSI 12	Open	6	2437	14.48	15.50	1.265	97.1	1.030	0.03	0.608	0.792
	2.4GHz WLAN	802.11b 1Mbps	Top Side	0mm	Ant 7+11(7)	DSI 12	Open	1	2412	14.41	15.50	1.285	97.1	1.030	-0.11	0.586	0.776
	2.4GHz WLAN	802.11b 1Mbps	Top Side	0mm	Ant 7+11(7)	DSI 12	Open	11	2462	14.35	15.50	1.303	97.1	1.030	0.15	0.588	0.789
	2.4GHz WLAN	802.11b 1Mbps	Back 1	14mm	Ant 7+11(7)	DSI 4	Open	11	2462	20.77	22.50	1.489	97.1	1.030	0.05	0.459	0.704
	2.4GHz WLAN	802.11b 1Mbps	Back Top	14mm	Ant 7+11(7)	DSI 4	Open	11	2462	20.77	22.50	1.489	97.1	1.030	-0.14	0.239	0.367
	2.4GHz WLAN	802.11b 1Mbps	Back Right	14mm	Ant 7+11(7)	DSI 4	Open	11	2462	20.77	22.50	1.489	97.1	1.030	-0.11	0.286	0.439
	2.4GHz WLAN	802.11b 1Mbps	Right Side	15mm	Ant 7+11(7)	DSI 4	Open	11	2462	20.77	22.50	1.489	97.1	1.030	0.08	0.098	0.150
	2.4GHz WLAN	802.11b 1Mbps	Top Side	9mm	Ant 7+11(7)	DSI 4	Open	11	2462	20.77	22.50	1.489	97.1	1.030	-0.15	0.265	0.406
125	5.3GHz WLAN	802.11ac-VHT160 MCS0	Back Top	0mm	Ant 6+1(6)	DSI 12	Open	50	5250	7.82	9.50	1.472	100.0	1.000	-0.09	0.672	0.989
	5.3GHz WLAN	802.11ac-VHT160 MCS0	Back Right	0mm	Ant 6+1(6)	DSI 12	Open	50	5250	7.82	9.50	1.472	100.0	1.000	-0.04	0.271	0.399
	5.3GHz WLAN	802.11ac-VHT160 MCS0	Back 1	0mm	Ant 6+1(6)	DSI 12	Open	50	5250	7.82	9.50	1.472	100.0	1.000	-0.01	0.077	0.113
	5.3GHz WLAN	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 6+1(6)	DSI 12	Open	50	5250	7.82	9.50	1.472	100.0	1.000	0.11	0.285	0.420
	5.3GHz WLAN	802.11ac-VHT40 MCS0	Right Side	0mm	Ant 6+1(6)	DSI 4	Open	54	5270	16.75	18.50	1.496	100.0	1.000	-0.05	0.501	0.749
	5.3GHz WLAN	802.11ac-VHT40 MCS0	Back top	12mm	Ant 6+1(6)	DSI 4	Open	54	5270	16.75	18.50	1.496	100.0	1.000	0.02	0.240	0.359
	5.3GHz WLAN	802.11ac-VHT40 MCS0	Back 1	11mm	Ant 6+1(6)	DSI 4	Open	54	5270	16.75	18.50	1.496	100.0	1.000	0.11	0.245	0.367
	5.3GHz WLAN	802.11ac-VHT40 MCS0	Back Right	11mm	Ant 6+1(6)	DSI 4	Open	54	5270	16.75	18.50	1.496	100.0	1.000	-0.18	0.478	0.715
	5.3GHz WLAN	802.11ac-VHT40 MCS0	Top Side	15mm	Ant 6+1(6)	DSI 4	Open	54	5270	16.75	18.50	1.496	100.0	1.000	0.12	0.119	0.178
	5.3GHz WLAN	802.11ac-VHT40 MCS0	Right Side	0mm	Ant 6+1(1)	DSI 4		62	5310	16.28	18.00	1.486	100.0	1.000	0.06	0.515	0.765
126	5.5GHz WLAN	802.11ac-VHT160 MCS0	Back Top	0mm	Ant 6+1(1)	DSI 12	Open	114	5570	8.55	10.00	1.396	100.0	1.000	0.06	0.642	0.896
	5.5GHz WLAN	802.11ac-VHT160 MCS0	Back Right	0mm	Ant 6+1(1)	DSI 12	Open	114	5570	8.55	10.00	1.396	100.0	1.000	0.03	0.287	0.401
	5.5GHz WLAN	802.11ac-VHT160 MCS0	Back 1	0mm	Ant 6+1(1)	DSI 12	Open	114	5570	8.55	10.00	1.396	100.0	1.000	-0.07	0.155	0.216
	5.5GHz WLAN	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 12	Open	114	5570	8.55	10.00	1.396	100.0	1.000	0.05	0.137	0.191
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+1(1)	DSI 4	Open	138	5690	17.39	19.00	1.449	100.0	1.000	-0.05	0.531	0.769
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Back top	12mm	Ant 6+1(1)	DSI 4	Open	138	5690	17.39	19.00	1.449	100.0	1.000	0.03	0.495	0.717
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Top Side	15mm	Ant 6+1(1)	DSI 4	Open	138	5690	17.39	19.00	1.449	100.0	1.000	0.09	0.301	0.436
127	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back Top	0mm	Ant 6+1(1)	DSI 12	Open	155	5775	9.27	11.00	1.489	100.0	1.000	0.07	0.522	0.777
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back Right	0mm	Ant 6+1(1)	DSI 12	Open	155	5775	9.27	11.00	1.489	100.0	1.000	0.18	0.262	0.390
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back 1	0mm	Ant 6+1(1)	DSI 12	Open	155	5775	9.27	11.00	1.489	100.0	1.000	-0.05	0.188	0.280
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 12	Open	155	5775	9.27	11.00	1.489	100.0	1.000	-0.02	0.361	0.538
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+1(1)	DSI 4	Open	155	5775	17.30	19.00	1.479	100.0	1.000	-0.03	0.525	0.776
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back top	12mm	Ant 6+1(1)	DSI 4	Open	155	5775	17.30	19.00	1.479	100.0	1.000	0.01	0.524	0.775
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back 1	11mm	Ant 6+1(1)	DSI 4	Open	155	5775	17.30	19.00	1.479	100.0	1.000	-0.18	0.396	0.586
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back Right	11mm	Ant 6+1(1)	DSI 4	Open	155	5775	17.30	19.00	1.479	100.0	1.000	0.13	0.354	0.524
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Top Side	15mm	Ant 6+1(1)	DSI 4	Open	155	5775	17.30	19.00	1.479	100.0	1.000	-0.02	0.319	0.472
	Bluetooth	1Mbps	Back Top	0mm	Ant 7	DSI 12	Open	39	2441	15.79	16.90	1.291	77.0	1.082	0.19	0.843	1.178
	Bluetooth	1Mbps	Back Top	0mm	Ant 7	DSI 12	Open	0	2402	14.01	15.90	1.545	77.0	1.082	0.18	0.651	1.088
	Bluetooth	1Mbps	Back Top	0mm	Ant 7	DSI 12	Open	78	2480	15.71	16.50	1.199	77.0	1.082	0.05	0.727	0.943
	Bluetooth	1Mbps	Back Right	0mm	Ant 7	DSI 12	Open	39	2441	15.79	16.90	1.291	77.0	1.082	-0.02	0.761	1.063
	Bluetooth	1Mbps	Back Right	0mm	Ant 7	DSI 12	Open	0	2402	14.01	15.90	1.545	77.0	1.082	-0.13	0.698	1.167
	Bluetooth	1Mbps	Back Right	0mm	Ant 7	DSI 12	Open	78	2480	15.71	16.50	1.199	77.0	1.082	0.00	0.689	0.894
	Bluetooth	1Mbps	Back 1	0mm	Ant 7	DSI 12	Open	39	2441	15.79	16.90	1.291	77.0	1.082	-0.02	0.161	0.225
	Bluetooth	1Mbps	Right Side	0mm	Ant 7	DSI 12	Open	39	2441	15.79	16.90	1.291	77.0	1.082	0.16	0.403	0.563
	Bluetooth	1Mbps	Top Side	0mm	Ant 7	DSI 12	Open	39	2441	15.79	16.90	1.291	77.0	1.082	0.14	0.736	1.028
	Bluetooth	1Mbps	Top Side	0mm	Ant 7	DSI 12	Open	0	2402	14.01	15.90	1.545	77.0	1.082	0.08	0.702	1.174
	Bluetooth	1Mbps	Top Side	0mm	Ant 7	DSI 12	Open	78	2480	15.71	16.50	1.199	77.0	1.082	-0.08	0.651	0.845
	Bluetooth	1Mbps	Back 1	14mm	Ant 7	DSI 4	Open	39	2441	18.87	20.50	1.455	77.0	1.082	0.04	0.602	0.948



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	Bluetooth	1Mbps	Back 1	14mm	Ant 7	DSI 4	Open	0	2402	17.78	19.50	1.486	77.0	1.082	0.16	0.539	0.867
	Bluetooth	1Mbps	Back 1	14mm	Ant 7	DSI 4	Open	78	2480	17.85	19.50	1.462	77.0	1.082	-0.09	0.544	0.861
	Bluetooth	1Mbps	Back Top	14mm	Ant 7	DSI 4	Open	39	2441	18.87	20.50	1.455	77.0	1.082	0.14	0.501	0.789
	Bluetooth	1Mbps	Top Side	9mm	Ant 7	DSI 4	Open	39	2441	18.87	20.50	1.455	77.0	1.082	0.05	0.313	0.493
128	Bluetooth	1Mbps	Back Top	0mm	Ant 11	DSI 4	Open	39	2441	17.54	18.50	1.246	76.7	1.087	0.13	0.942	1.276
	Bluetooth	1Mbps	Back Top	0mm	Ant 11	DSI 4	Open	0	2402	14.60	16.00	1.379	76.7	1.087	-0.04	0.711	1.066
	Bluetooth	1Mbps	Back Top	0mm	Ant 11	DSI 4	Open	78	2480	15.92	17.50	1.437	76.7	1.087	-0.03	0.762	1.190
	Bluetooth	1Mbps	Back Right	0mm	Ant 11	DSI 4	Open	39	2441	17.54	18.50	1.246	76.7	1.087	-0.15	0.001	0.001
	Bluetooth	1Mbps	Back 1	0mm	Ant 11	DSI 4	Open	39	2441	17.54	18.50	1.246	76.7	1.087	0.14	0.474	0.642
	Bluetooth	1Mbps	Right Side	0mm	Ant 11	DSI 4	Open	39	2441	17.54	18.50	1.246	76.7	1.087	-0.03	0.001	0.001
	Bluetooth	1Mbps	Top Side	0mm	Ant 11	DSI 4	Open	39	2441	17.54	18.50	1.246	76.7	1.087	0.12	0.523	0.708

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	0mm	Ant 6+1(6)	DSI12	Open	31	6105	9.71	11.50	1.510	100	1.000	-0.01	0.328	0.495	1.630
	WLAN6GHz	802.11be-EHT320 MCS0	Back Right	0mm	Ant 6+1(6)	DSI12	Open	31	6105	9.71	11.50	1.510	100	1.000	0.03	0.129	0.195	0.683
	WLAN6GHz	802.11be-EHT320 MCS0	Back 1	0mm	Ant 6+1(6)	DSI12	Open	31	6105	9.71	11.50	1.510	100	1.000	0.05	0.079	0.119	0.381
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(6)	DSI12	Open	31	6105	9.71	11.50	1.510	100	1.000	0.02	0.436	0.658	2.180
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(6)	DSI12	Open	63	6265	9.75	11.50	1.496	100	1.000	-0.09	0.463	0.693	2.280
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI12	Open	95	6425	9.43	11.00	1.435	100	1.000	0.02	0.499	0.716	2.350
129	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI12	Open	127	6585	9.45	11.00	1.429	100	1.000	-0.19	0.526	0.752	2.410
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI12	Open	159	6745	8.95	10.50	1.429	100	1.000	-0.09	0.517	0.739	2.370
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI12	Open	191	6905	9.01	10.50	1.409	100	1.000	0.02	0.510	0.719	2.250
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+1(6)	DSI4	Open	207	6985	17.2	19.00	1.514	100	1.000	0.04	0.280	0.424	1.360
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Side	0mm	Ant 6+1(6)	DSI4	Open	207	6985	17.2	19.00	1.514	100	1.000	-0.03	0.001	0.002	0.013
	WLAN6GHz	802.11ax-HE160 MCS0	Back Top	11mm	Ant 6+1(6)	DSI4	Open	207	6985	17.2	19.00	1.514	100	1.000	-0.01	0.452	0.684	2.190
	WLAN6GHz	802.11ax-HE160 MCS0	Back Right	11mm	Ant 6+1(6)	DSI4	Open	207	6985	17.2	19.00	1.514	100	1.000	-0.04	0.240	0.363	1.160
	WLAN6GHz	802.11ax-HE160 MCS0	Back 1	11mm	Ant 6+1(6)	DSI4	Open	207	6985	17.2	19.00	1.514	100	1.000	-0.01	0.314	0.475	1.520
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	15mm	Ant 6+1(6)	DSI4	Open	207	6985	17.2	19.00	1.514	100	1.000	0.09	0.166	0.251	0.803

<NFC SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Configuration	Freq. (MHz)	Power Drift (dB)	Measured 1g SAR (W/kg)
	NFC	ASK	Front	0mm	Open	13.56	0	0.001
130	NFC	ASK	Back	0mm	Open	13.56	-0.1	0.051
	NFC	ASK	Left Side	0mm	Open	13.56	0	0.001
	NFC	ASK	Right Side	0mm	Open	13.56	0	0.001
	NFC	ASK	Top Side	0mm	Open	13.56	0	0.001
	NFC	ASK	Bottom Side	0mm	Open	13.56	0	0.001

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)
	GSM850	GPRS 4 Tx slots	Back	0mm	Ant 0	DSI 12	189	836.4	21.16	22.4	1.330	100	1.000	0.15	0.604	0.803
	GSM850	GPRS 4 Tx slots	Back	0mm	Ant 0	DSI 12	128	824.2	21.05	22.4	1.365	100	1.000	0.02	0.551	0.752
	GSM850	GPRS 4 Tx slots	Back	0mm	Ant 0	DSI 12	251	848.8	21.03	22.4	1.371	100	1.000	0.01	0.546	0.749
	GSM850	GPRS 4 Tx slots	Right Side	0mm	Ant 0	DSI 12	189	836.4	21.16	22.4	1.330	100	1.000	-0.08	0.389	0.517
	GSM850	GPRS 4 Tx slots	Bottom Side	0mm	Ant 0	DSI 12	189	836.4	21.16	22.4	1.330	100	1.000	0.15	0.492	0.654
	GSM850	GPRS 3 Tx slots	Back	15mm	Ant 0	DSI 4	189	836.4	28.84	30	1.306	100	1.000	0.03	0.213	0.278
	GSM850	GPRS 3 Tx slots	Right Side	19mm	Ant 0	DSI 4	189	836.4	28.84	30	1.306	100	1.000	0.02	0.151	0.197
	GSM850	GPRS 3 Tx slots	Bottom Side	14mm	Ant 0	DSI 4	189	836.4	28.84	30	1.306	100	1.000	0.01	0.173	0.226



<Spot check>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
131	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 0	DSI 12	26865	831.5	20.08	21.6	1.419	100	1.000	0.07	0.620	0.88
132	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	42190	3460	14.55	15.8	1.334	62.9	1.006	0.06	0.960	1.288
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	42590	3500	14.59	15.8	1.321	62.9	1.006	-0.02	0.943	1.253
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	42990	3540	14.51	15.8	1.346	62.9	1.006	0.01	0.911	1.234
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	55340	3560	13.95	15.4	1.396	62.9	1.006	-0.1	0.911	1.279
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	55830	3609	13.97	15.4	1.390	62.9	1.006	-0.09	0.898	1.256
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	56150	3641	13.91	15.4	1.409	62.9	1.006	0.02	0.845	1.198
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 12	56640	3690	13.91	15.4	1.409	62.9	1.006	0.01	0.871	1.235

16.5 Product Specific SAR

<Flip Close>

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	GSM1900	GPRS 3 Tx slots	Front	0mm	Ant 3	DSI 6	Close	661	1880	25.36	26.50	1.3	-0.16	0.418	0.543
	GSM1900	GPRS 3 Tx slots	Back Top	0mm	Ant 3	DSI 6	Close	661	1880	25.36	26.50	1.3	0.05	1.180	1.534
	GSM1900	GPRS 3 Tx slots	Left Side	0mm	Ant 3	DSI 6	Close	661	1880	25.36	26.50	1.3	0.07	0.097	0.126
	GSM1900	GPRS 3 Tx slots	Right Side	0mm	Ant 3	DSI 6	Close	661	1880	25.36	26.50	1.3	0.07	0.159	0.207
133	GSM1900	GPRS 3 Tx slots	Top Side	0mm	Ant 3	DSI 6	Close	661	1880	25.36	26.50	1.3	-0.06	1.210	1.573
	GSM1900	GPRS 3 Tx slots	Bottom Side	0mm	Ant 3	DSI 6	Close	661	1880	25.36	26.50	1.3	0.01	0.001	0.001

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 6	Close	9400	1880	21.06	22.50	1.393	-0.12	1.680	2.340
	WCDMA II	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 6	Close	9262	1852.4	21.02	22.50	1.406	0.12	1.500	2.109
	WCDMA II	RMC 12.2Kbps	Back Top	0mm	Ant 3	DSI 6	Close	9538	1907.6	20.98	22.50	1.419	-0.10	1.530	2.171
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	Close	9400	1880	21.06	22.50	1.393	-0.11	1.560	2.173
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	Close	9262	1852.4	21.02	22.50	1.406	0.03	1.790	2.517
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	Close	9538	1907.6	20.98	22.50	1.419	0.10	1.520	2.157
	WCDMA II	RMC 12.2Kbps	Back Top	4mm	Ant 3	DSI 4	Close	9400	1880	23.76	24.00	1.057	0.07	1.710	1.807
	WCDMA II	RMC 12.2Kbps	Top Side	7mm	Ant 3	DSI 4	Close	9400	1880	23.76	24.00	1.057	-0.13	1.430	1.512
134	WCDMA II	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 6	Close	9400	1880	22.74	24.00	1.337	-0.11	1.990	2.661
	WCDMA II	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 6	Close	9262	1852.4	22.62	24.00	1.374	0.13	1.860	2.556
	WCDMA II	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 6	Close	9538	1907.6	22.67	24.00	1.358	-0.17	1.790	2.431
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 6	Close	9400	1880	22.74	24.00	1.337	0.02	1.570	2.099
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 6	Close	9262	1852.4	22.62	24.00	1.374	-0.16	1.520	2.088
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 6	Close	9538	1907.6	22.67	24.00	1.358	-0.10	1.500	2.037
	WCDMA II	RMC 12.2Kbps	Back Right	6mm	Ant 4	DSI 4	Close	9400	1880	22.74	24.00	1.337	-0.19	0.501	0.670
	WCDMA II	RMC 12.2Kbps	Right Side	8mm	Ant 4	DSI 4	Close	9400	1880	22.74	24.00	1.337	-0.09	0.371	0.496
	WCDMA II	RMC 12.2Kbps	Top Side	7mm	Ant 4	DSI 4	Close	9400	1880	22.74	24.00	1.337	0.17	0.087	0.116
135	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	Close	1413	1732.6	19.73	21.00	1.34	-0.04	2.280	3.055
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	Close	1312	1712.4	19.64	21.00	1.368	0.05	2.140	2.928
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 3	DSI 6	Close	1513	1752.6	19.71	21.00	1.346	0.06	2.100	2.827
	WCDMA IV	RMC 12.2Kbps	Front	7mm	Ant 3	DSI 4	Close	1413	1732.6	23.75	24.00	1.059	0.03	0.601	0.636
	WCDMA IV	RMC 12.2Kbps	Back Top	4mm	Ant 3	DSI 4	Close	1413	1732.6	23.75	24.00	1.059	0.03	2.150	2.277
	WCDMA IV	RMC 12.2Kbps	Back Top	4mm	Ant 3	DSI 4	Close	1312	1712.4	23.67	24.00	1.079	0.05	2.090	2.255
	WCDMA IV	RMC 12.2Kbps	Back Top	4mm	Ant 3	DSI 4	Close	1513	1752.6	23.73	24.00	1.064	0.06	2.030	2.160
	WCDMA IV	RMC 12.2Kbps	Top Side	7mm	Ant 3	DSI 4	Close	1413	1732.6	23.75	24.00	1.059	0.01	1.770	1.874
	WCDMA IV	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 6	Close	1413	1732.6	22.76	24.00	1.33	-0.12	1.830	2.434
	WCDMA IV	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 6	Close	1312	1712.4	22.73	24.00	1.34	0.18	1.700	2.278
	WCDMA IV	RMC 12.2Kbps	Back Right	0mm	Ant 4	DSI 6	Close	1513	1752.6	22.72	24.00	1.343	0.18	1.760	2.364
	WCDMA IV	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 6	Close	1413	1732.6	22.76	24.00	1.33	0.08	1.550	2.062
	WCDMA IV	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 6	Close	1312	1712.4	22.73	24.00	1.34	-0.06	1.590	2.131
	WCDMA IV	RMC 12.2Kbps	Right Side	0mm	Ant 4	DSI 6	Close	1513	1752.6	22.72	24.00	1.343	-0.15	1.380	1.853
	WCDMA IV	RMC 12.2Kbps	Back Right	6mm	Ant 4	DSI 4	Close	1413	1732.6	22.76	24.00	1.33	-0.03	0.560	0.745



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	WCDMA IV	RMC 12.2Kbps	Right Side	8mm	Ant 4	DSI 4	Close	1413	1732.6	22.76	24.00	1.33	0.19	0.470	0.625
	WCDMA IV	RMC 12.2Kbps	Top Side	7mm	Ant 4	DSI 4	Close	1413	1732.6	22.76	24.00	1.33	-0.17	0.059	0.078

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	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)
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 3	DSI 6	Close	21100	2535	20.46	21.70	1.33			0.16	1.420	1.889
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 3	DSI 6	Close	21100	2535	20.38	21.70	1.355			-0.02	1.360	1.843
136	LTE Band 7	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	21100	2535	20.46	21.70	1.33			0.02	2.360	3.139
	LTE Band 7	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	20850	2510	20.41	21.70	1.346			-0.04	2.280	3.069
	LTE Band 7	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	21350	2560	20.43	21.70	1.34			0.10	2.340	3.136
	LTE Band 7	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	21100	2535	20.38	21.70	1.355			-0.12	2.250	3.049
	LTE Band 7	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	20850	2510	20.34	21.70	1.368			-0.03	2.140	2.928
	LTE Band 7	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	21350	2560	20.33	21.70	1.371			-0.07	2.060	2.824
	LTE Band 7	20	QPSK	100	0	Back Top	0mm	Ant 3	DSI 6	Close	21100	2535	20.35	21.70	1.365			-0.13	2.020	2.757
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	21100	2535	20.46	21.70	1.33			-0.01	2.240	2.979
	LTE Band 7	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	20850	2510	20.41	21.70	1.346			0.07	2.040	2.746
	LTE Band 7	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	21350	2560	20.43	21.70	1.34			0.11	2.130	2.854
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	21100	2535	20.38	21.70	1.355			-0.05	2.190	2.967
	LTE Band 7	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	20850	2510	20.34	21.70	1.368			-0.18	2.010	2.750
	LTE Band 7	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	21350	2560	20.33	21.70	1.371			-0.07	2.050	2.811
	LTE Band 7	20	QPSK	100	0	Top Side	0mm	Ant 3	DSI 6	Close	21100	2535	20.35	21.70	1.365			-0.09	2.230	3.044
	LTE Band 7	20M	QPSK	1	0	Front	7mm	Ant 3	DSI 4	Close	21100	2535	23.35	24.00	1.161			0.02	0.721	0.837
	LTE Band 7	20M	QPSK	50	0	Front	7mm	Ant 3	DSI 4	Close	21100	2535	22.36	23.00	1.159			0.02	0.723	0.838
	LTE Band 7	20M	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	21100	2535	23.35	24.00	1.161			0.01	1.750	2.032
	LTE Band 7	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	20850	2510	23.28	24.00	1.18			0.06	1.710	2.018
	LTE Band 7	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	21350	2560	23.33	24.00	1.167			0.02	1.650	1.926
	LTE Band 7	20M	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	21100	2535	22.36	23.00	1.159			0.01	1.630	1.889
	LTE Band 7	20	QPSK	100	0	Back Top	4mm	Ant 3	DSI 4	Close	21100	2535	22.32	23.00	1.169			0.06	1.610	1.882
	LTE Band 7	20M	QPSK	1	0	Top Side	7mm	Ant 3	DSI 4	Close	21100	2535	23.35	24.00	1.161			0.01	1.660	1.927
	LTE Band 7	20M	QPSK	50	0	Top Side	7mm	Ant 3	DSI 4	Close	21100	2535	22.36	23.00	1.159			0.06	1.680	1.947
	LTE Band 7	20M	QPSK	1	99	Back Top	0mm	Ant 3	DSI 6	Close	21100+21298	2535+2554.8	20.42	21.70	1.343			0.03	2.170	2.914
	LTE Band 7	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	21100	2535	20.98	22.00	1.265			0.07	1.650	2.087
	LTE Band 7	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	20850	2510	20.91	22.00	1.285			0.02	1.580	2.030
	LTE Band 7	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	21350	2560	20.93	22.00	1.279			0.06	1.690	2.162
	LTE Band 7	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	21100	2535	20.85	22.00	1.303			-0.11	1.580	2.059
	LTE Band 7	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	20850	2510	20.78	22.00	1.324			0.14	1.470	1.946
	LTE Band 7	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	21350	2560	20.83	22.00	1.309				1.580	2.068
	LTE Band 7	20	QPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	21100	2535	20.89	22.00	1.291			0.06	1.520	1.962
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	21100	2535	20.98	22.00	1.265			-0.03	1.420	1.796
	LTE Band 7	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	21100	2535	20.85	22.00	1.303			0.05	1.350	1.759
	LTE Band 7	20M	QPSK	1	0	Back Right	6mm	Ant 4	DSI 4	Close	21100	2535	21.95	23.00	1.274			0.09	0.894	1.139
	LTE Band 7	20M	QPSK	50	0	Back Right	6mm	Ant 4	DSI 4	Close	21100	2535	20.98	22.00	1.265			0.02	0.850	1.075
	LTE Band 7	20M	QPSK	1	0	Right Side	8mm	Ant 4	DSI 4	Close	21100	2535	21.95	23.00	1.274			0.05	0.620	0.790
	LTE Band 7	20M	QPSK	50	0	Right Side	8mm	Ant 4	DSI 4	Close	21100	2535	20.98	22.00	1.265			0.01	0.580	0.734
	LTE Band 7	20M	QPSK	1	0	Top Side	7mm	Ant 4	DSI 4	Close	21100	2535	21.95	23.00	1.274			-0.08	0.114	0.145
	LTE Band 7	20M	QPSK	50	0	Top Side	7mm	Ant 4	DSI 4	Close	21100	2535	20.98	22.00	1.265			0.01	0.120	0.152
	LTE Band 7	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	21350+21152	2560+2540.2	20.86	22.00	1.3			0.03	2.100	2.730
	LTE Band 25	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	26340	1880	22.16	24.00	1.528			-0.16	2.080	3.178
	LTE Band 25	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	26140	1860	22.04	24.00	1.57			0.07	1.960	3.077
	LTE Band 25	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	26590	1905	22.10	24.00	1.549			0.12	1.870	2.897
	LTE Band 25	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	26340	1880	21.94	23.00	1.276			0.12	1.830	2.335
	LTE Band 25	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	26140	1860	21.87	23.00	1.297			-0.17	1.810	2.348
	LTE Band 25	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	26590	1905	21.87	23.00	1.297			0.02	1.780	2.309
	LTE Band 25	20	QPSK	100	0	Back Top	0mm	Ant 3	DSI 6	Close	26340	1880	21.99	23.00	1.262			-0.12	1.710	2.158
	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	26340	1880	22.16	24.00	1.528			0.07	1.940	2.964
137	LTE Band 25	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	26140	1860	22.04	24.00	1.57			0.04	2.090	3.281
	LTE Band 25	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	26590	1905	22.10	24.00	1.549			0.14	1.910	2.959
	LTE Band 25	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	26340	1880	21.94	23.00	1.276			0.15	1.850	2.361
	LTE Band 25	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	26140	1860	21.87	23.00	1.297			0.15	1.860	2.412
	LTE Band 25	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	26590	1905	21.87	23.00	1.297			-0.13	1.960	2.542
	LTE Band 25	20M	QPSK	100	0	Top Side	0mm	Ant 3	DSI 6	Close	26340	1880	21.99	23.00	1.262			0.14	1.870	2.360
	LTE Band 25	20M	QPSK	1	0	Front	7mm	Ant 3	DSI 4	Close	26340	1880	23.36	24.00	1.159			0.02	0.345	0.400
	LTE Band 25	20M	QPSK	50	0	Front	7mm	Ant 3	DSI 4	Close	26340	1880	22.33	23.00	1.167			0.03	0.336	0.392
	LTE Band 25	20M	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	26340	1880	23.36	24.00	1.159			0.05	1.910	2.214
	LTE Band 25	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	26140	1860	23.04	24.00	1.247			0.01	2.050	2.556
	LTE Band 25	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	26590	1905	23.23	24.00	1.194			0.06	2.060	2.460
	LTE Band 25	20M	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	26340	1880	22.33	23.00	1.167			0.03	1.920	2.241



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	LTE Band 25	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	26140	1860	22.00	23.00	1.259		0.02	1.930	2.430	
	LTE Band 25	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	26590	1905	22.19	23.00	1.205		0.01	1.850	2.229	
	LTE Band 25	20	QPSK	100	0	Back Top	4mm	Ant 3	DSI 4	Close	26340	1880	22.08	23.00	1.236		0.03	1.890	2.336	
	LTE Band 25	20M	QPSK	1	0	Top Side	7mm	Ant 3	DSI 4	Close	26340	1880	23.36	24.00	1.159		0.02	1.320	1.530	
	LTE Band 25	20M	QPSK	50	0	Top Side	7mm	Ant 3	DSI 4	Close	26340	1880	22.33	23.00	1.167		0.01	1.210	1.412	
	LTE Band 25	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	26340	1880	21.67	23.00	1.358		-0.13	1.610	2.186	
	LTE Band 25	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	26140	1860	21.65	23.00	1.365		-0.06	1.440	1.966	
	LTE Band 25	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	26590	1905	21.62	23.00	1.374		0.02	1.550	2.130	
	LTE Band 25	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	26340	1880	20.68	22.00	1.355		0.11	1.360	1.843	
	LTE Band 25	20	QPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	26340	1880	20.65	22.00	1.365		-0.19	1.350	1.843	
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	26340	1880	21.67	23.00	1.358		0.10	1.290	1.752	
	LTE Band 25	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	26340	1880	20.68	22.00	1.355		0.12	1.030	1.396	
	LTE Band 25	20M	QPSK	1	0	Back Right	6mm	Ant 4	DSI 4	Close	26340	1880	21.67	23.00	1.358		0.03	0.472	0.641	
	LTE Band 25	20M	QPSK	50	0	Back Right	6mm	Ant 4	DSI 4	Close	26340	1880	20.68	22.00	1.355		0.05	0.389	0.527	
	LTE Band 25	20M	QPSK	1	0	Right Side	8mm	Ant 4	DSI 4	Close	26340	1880	21.67	23.00	1.358		0.01	0.333	0.452	
	LTE Band 25	20M	QPSK	50	0	Right Side	8mm	Ant 4	DSI 4	Close	26340	1880	20.68	22.00	1.355		0.02	0.265	0.359	
	LTE Band 25	20M	QPSK	1	0	Top Side	7mm	Ant 4	DSI 4	Close	26340	1880	21.67	23.00	1.358		0.03	0.080	0.109	
	LTE Band 25	20M	QPSK	50	0	Top Side	7mm	Ant 4	DSI 4	Close	26340	1880	20.68	22.00	1.355		0.01	0.068	0.092	
	LTE Band 66	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	132322	1745	21.45	22.60	1.303		-0.13	2.150	2.801	
	LTE Band 66	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	132072	1720	21.40	22.60	1.318		-0.14	2.050	2.702	
	LTE Band 66	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	132572	1770	21.36	22.60	1.33		0.16	2.030	2.700	
	LTE Band 66	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	132322	1745	21.30	22.60	1.349		0.10	1.900	2.563	
	LTE Band 66	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	132072	1720	21.27	22.60	1.358		0.07	1.930	2.621	
	LTE Band 66	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	132572	1770	21.25	22.60	1.365		0.02	1.970	2.689	
	LTE Band 66	20	QPSK	100	0	Back Top	0mm	Ant 3	DSI 6	Close	132322	1745	21.17	22.60	1.39		0.15	1.870	2.599	
138	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	132322	1745	21.45	22.60	1.303		0.12	2.430	3.166	
	LTE Band 66	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	132072	1720	21.40	22.60	1.318		0.19	2.250	2.966	
	LTE Band 66	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	132572	1770	21.36	22.60	1.33		-0.14	2.350	3.126	
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	132322	1745	21.30	22.60	1.349		-0.05	2.080	2.806	
	LTE Band 66	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	132072	1720	21.27	22.60	1.358		-0.13	2.010	2.730	
	LTE Band 66	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	132572	1770	21.25	22.60	1.365		-0.06	2.010	2.744	
	LTE Band 66	20	QPSK	100	0	Top Side	0mm	Ant 3	DSI 6	Close	132322	1745	21.17	22.60	1.39		-0.06	2.050	2.849	
	LTE Band 66	20M	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	132322	1745	23.38	24.00	1.153		0.05	2.330	2.686	
	LTE Band 66	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	132072	1720	23.24	24.00	1.191		0.03	2.340	2.787	
	LTE Band 66	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	132572	1770	23.18	24.00	1.208		0.01	2.130	2.573	
	LTE Band 66	20M	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	132322	1745	22.20	23.00	1.202		0.02	1.930	2.320	
	LTE Band 66	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	132072	1720	22.09	23.00	1.233		0.03	2.030	2.503	
	LTE Band 66	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	132572	1770	22.12	23.00	1.225		0.05	1.880	2.303	
	LTE Band 66	20	QPSK	100	0	Back Top	4mm	Ant 3	DSI 4	Close	132322	1745	22.12	23.00	1.225		0.01	2.130	2.609	
	LTE Band 66	20M	QPSK	1	0	Top Side	7mm	Ant 3	DSI 4	Close	132322	1745	23.38	24.00	1.153		0.02	1.640	1.891	
	LTE Band 66	20M	QPSK	50	0	Top Side	7mm	Ant 3	DSI 4	Close	132322	1745	22.20	23.00	1.202		0.03	1.530	1.839	
	LTE Band 66	20M	QPSK	1	99	Top Side	0mm	Ant 3	DSI 6	Close	132322+132520	1745+1764.8	21.30	22.60	1.349		0.03	2.250	3.035	
	LTE Band 66	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	132322	1745	21.70	23.00	1.349		-0.04	1.820	2.455	
	LTE Band 66	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	132072	1720	21.69	23.00	1.352		-0.02	2.080	2.812	
	LTE Band 66	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	132572	1770	21.65	23.00	1.365		-0.18	1.750	2.389	
	LTE Band 66	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	132322	1745	20.69	22.00	1.352		-0.01	1.720	2.325	
	LTE Band 66	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	132072	1720	20.63	22.00	1.371		0.02	1.610	2.207	
	LTE Band 66	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	132572	1770	20.65	22.00	1.365		0.03	1.680	2.293	
	LTE Band 66	20	QPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	132322	1745	20.63	22.00	1.371		-0.18	1.420	1.947	
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	132322	1745	21.70	23.00	1.349		0.02	1.530	2.064	
	LTE Band 66	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	132072	1720	21.69	23.00	1.352		0.14	1.500	2.028	
	LTE Band 66	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	132572	1770	21.65	23.00	1.365		0.05	1.430	1.952	
	LTE Band 66	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	132322	1745	20.69	22.00	1.352		0.17	1.460	1.974	
	LTE Band 66	20	QPSK	100	0	Right Side	0mm	Ant 4	DSI 6	Close	132322	1745	20.63	22.00	1.371		0.04	1.330	1.823	
	LTE Band 66	20M	QPSK	1	0	Back Right	6mm	Ant 4	DSI 4	Close	132322	1745	21.70	23.00	1.349		0.05	0.561	0.757	
	LTE Band 66	20M	QPSK	50	0	Back Right	6mm	Ant 4	DSI 4	Close	132322	1745	20.69	22.00	1.352		0.06	0.496	0.671	
	LTE Band 66	20M	QPSK	1	0	Right Side	8mm	Ant 4	DSI 4	Close	132322	1745	21.70	23.00	1.349		0.01	0.393	0.530	
	LTE Band 66	20M	QPSK	50	0	Right Side	8mm	Ant 4	DSI 4	Close	132322	1745	20.69	22.00	1.352		0.03	0.302	0.408	
	LTE Band 66	20M	QPSK	1	99	Back Right	0mm	Ant 4	DSI 6	Close	132072+132270	1720+1739.8	21.35	23.00	1.462		0.03	1.860	2.719	
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 3	DSI 6	Close	40620	2593	22.51	23.70	1.315	62.9	1.006	-0.14	0.748	0.990
	LTE Band 41	20M	QPSK	50	0	Front	0mm	Ant 3	DSI 6	Close	40620	2593	22.40	22.80	1.096	62.9	1.006	0.19	0.530	0.584
139	LTE Band 41	20M	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	40620	2593	22.51	23.70	1.315	62.9	1.006	-0.08	2.410	3.188
	LTE Band 41	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	39750	2506	22.40	23.70	1.349	62.9	1.006	0.06	2.200	2.986
	LTE Band 41	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	40185	2549.5	22.46	23.70	1.33	62.9	1.006	-0.02	2.340	3.131
	LTE Band 41	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	41055	2636.5	22.43	23.70	1.34	62.9	1.006	-0.18	2.250	3.033
	LTE Band 41	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	41490	2680	22.39	23.70	1.352	62.9	1.006	0.02	2.160	2.938
	LTE Band 41	20M	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	40620	2593	22.40	22.80	1.096	62.9	1.006	0.06	2.210	2.437
	LTE Band 41	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	39750	2506	22.31	22.80	1.119	62.9	1.006	0.16	2.150	2.420
	LTE Band 41	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	40185	2549.5	22.28	22.80	1.127	62.9	1.006	0.03	2.180	2.472
	LTE Band 41	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	41055	2636.5	22.34	22.80	1.112	62.9	1.006	0.01	2.140	2.394
	LTE Band 41	20	QPSK	50	0	Back Top	0mm	Ant 3	DSI 6	Close	41490	2680	22.38	22.80	1.102	62.9	1.006	0.02	2.120	2.350
	LTE Band 41	20	QPSK	100	0	Back Top	0mm	Ant 3	DSI 6	Close	40620	2593	22.38	22.80	1.102	62.9	1.006	-0.10	2.090	2.317
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close										



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	LTE Band 41	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	39750	2506	22.40	23.70	1.349	62.9	1.006	0.04	2.170	2.945
	LTE Band 41	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	40185	2549.5	22.46	23.70	1.33	62.9	1.006	0.01	2.300	3.077
	LTE Band 41	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	41055	2636.5	22.43	23.70	1.34	62.9	1.006	0.12	1.800	2.426
	LTE Band 41	20	QPSK	1	0	Top Side	0mm	Ant 3	DSI 6	Close	41490	2680	22.39	23.70	1.352	62.9	1.006	-0.16	1.790	2.435
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	40620	2593	22.40	22.80	1.096	62.9	1.006	0.14	1.960	2.161
	LTE Band 41	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	39750	2506	22.31	22.80	1.119	62.9	1.006	0.04	1.990	2.240
	LTE Band 41	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	40185	2549.5	22.28	22.80	1.127	62.9	1.006	-0.10	2.090	2.370
	LTE Band 41	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	41055	2636.5	22.34	22.80	1.112	62.9	1.006	0.17	1.930	2.159
	LTE Band 41	20	QPSK	50	0	Top Side	0mm	Ant 3	DSI 6	Close	41490	2680	22.38	22.80	1.102	62.9	1.006	0.06	1.950	2.162
	LTE Band 41	20	QPSK	100	0	Top Side	0mm	Ant 3	DSI 6	Close	40620	2593	22.38	22.80	1.102	62.9	1.006	-0.01	1.700	1.885
	LTE Band 41	20M	QPSK	1	0	Front	7mm	Ant 3	DSI 4	Close	40620	2593	23.47	24.00	1.13	62.9	1.006	0.03	0.399	0.454
	LTE Band 41	20M	QPSK	50	0	Front	7mm	Ant 3	DSI 4	Close	40620	2593	22.60	23.00	1.096	62.9	1.006	0.01	0.341	0.376
	LTE Band 41	20M	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	40620	2593	23.47	24.00	1.13	62.9	1.006	0.05	1.690	1.921
	LTE Band 41	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	39750	2506	23.37	24.00	1.156	62.9	1.006	0.06	1.630	1.896
	LTE Band 41	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	40185	2549.5	23.40	24.00	1.148	62.9	1.006	0.01	1.580	1.825
	LTE Band 41	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	41055	2636.5	23.42	24.00	1.143	62.9	1.006	0.02	1.510	1.736
	LTE Band 41	20	QPSK	1	0	Back Top	4mm	Ant 3	DSI 4	Close	41490	2680	23.27	24.00	1.183	62.9	1.006	0.03	1.400	1.666
	LTE Band 41	20M	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	40620	2593	22.60	23.00	1.096	62.9	1.006	0.01	1.520	1.676
	LTE Band 41	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	39750	2506	22.44	23.00	1.138	62.9	1.006	0.00	1.480	1.694
	LTE Band 41	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	40185	2549.5	22.46	23.00	1.132	62.9	1.006	0.03	1.250	1.423
	LTE Band 41	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	41055	2636.5	22.49	23.00	1.125	62.9	1.006	0.02	1.430	1.618
	LTE Band 41	20	QPSK	50	0	Back Top	4mm	Ant 3	DSI 4	Close	41490	2680	22.37	23.00	1.156	62.9	1.006	0.01	1.350	1.570
	LTE Band 41	20M	QPSK	1	0	Top Side	7mm	Ant 3	DSI 4	Close	40620	2593	23.47	24.00	1.13	62.9	1.006	0.02	1.260	1.432
	LTE Band 41	20M	QPSK	50	0	Top Side	7mm	Ant 3	DSI 4	Close	40620	2593	22.60	23.00	1.096	62.9	1.006	0.01	1.050	1.158
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	40620	2593	24.36	25.30	1.242	42.9	1.009	0.02	2.350	2.945
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	39750	2506	24.32	25.30	1.253	42.9	1.009	0.17	2.070	2.617
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	40185	2549.5	24.18	25.30	1.294	42.9	1.009	0.11	2.240	2.925
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	41055	2636.5	24.28	25.30	1.265	42.9	1.009	0.07	2.220	2.834
	LTE Band 41 HPUE	20	QPSK	1	0	Back Top	0mm	Ant 3	DSI 6	Close	41490	2680	24.23	25.30	1.279	42.9	1.009	0.03	2.120	2.736
	LTE Band 41	20M	QPSK	1	99	Back Top	0mm	Ant 3	DSI 6	Close	40620+40818	2593+2612.8	22.35	23.70	1.365	62.9	1.006	0.06	2.260	3.103
	LTE Band 41 HPUE	20M	QPSK	1	99	Back Top	0mm	Ant 3	DSI 6	Close	40620+40818	2593+2612.8	24.18	25.30	1.294	42.9	1.009	0.02	2.280	2.977
115	LTE Band 41	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.06	1.960	2.455
	LTE Band 41	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	39750	2506	21.92	23.00	1.282	62.9	1.006	0.10	1.800	2.321
	LTE Band 41	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	40185	2549.5	21.95	23.00	1.274	62.9	1.006	-0.01	1.840	2.358
	LTE Band 41	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	41055	2636.5	21.89	23.00	1.291	62.9	1.006	-0.10	1.800	2.338
	LTE Band 41	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	41490	2680	21.88	23.00	1.294	62.9	1.006	-0.11	1.860	2.421
	LTE Band 41	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	0.09	1.920	2.382
	LTE Band 41	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	39750	2506	21.02	22.00	1.253	62.9	1.006	-0.16	1.710	2.155
	LTE Band 41	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	40185	2549.5	21.06	22.00	1.242	62.9	1.006	-0.06	1.770	2.212
	LTE Band 41	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	41055	2636.5	20.96	22.00	1.271	62.9	1.006	-0.16	1.800	2.302
	LTE Band 41	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	41490	2680	20.92	22.00	1.282	62.9	1.006	-0.17	1.840	2.373
	LTE Band 41	20	QPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	40620	2593	21.07	22.00	1.239	62.9	1.006	-0.03	1.840	2.293
	LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.02	2.130	2.668
	LTE Band 41	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	39750	2506	21.92	23.00	1.282	62.9	1.006	-0.07	1.960	2.528
	LTE Band 41	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	40185	2549.5	21.95	23.00	1.274	62.9	1.006	-0.01	1.960	2.512
	LTE Band 41	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	41055	2636.5	21.89	23.00	1.291	62.9	1.006	0.17	1.910	2.481
	LTE Band 41	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	41490	2680	21.88	23.00	1.294	62.9	1.006	-0.14	2.010	2.617
	LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.08	2.060	2.555
	LTE Band 41	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	39750	2506	21.02	22.00	1.253	62.9	1.006	0.15	1.910	2.408
	LTE Band 41	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	40185	2549.5	21.06	22.00	1.242	62.9	1.006	-0.01	1.890	2.361
	LTE Band 41	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	41055	2636.5	20.96	22.00	1.271	62.9	1.006	0.05	1.950	2.493
	LTE Band 41	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	41490	2680	20.92	22.00	1.282	62.9	1.006	-0.16	2.000	2.579
	LTE Band 41	20	QPSK	100	0	Right Side	0mm	Ant 4	DSI 6	Close	40620	2593	21.07	22.00	1.239	62.9	1.006	-0.11	1.850	2.306
	LTE Band 41	20M	QPSK	1	0	Back Right	6mm	Ant 4	DSI 4	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	0.01	0.721	0.903
	LTE Band 41	20M	QPSK	50	0	Back Right	6mm	Ant 4	DSI 4	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.03	0.424	0.526
	LTE Band 41	20M	QPSK	1	0	Right Side	8mm	Ant 4	DSI 4	Close	40620	2593	22.05	23.00	1.245	62.9	1.006	0.09	0.341	0.427
	LTE Band 41	20M	QPSK	50	0	Right Side	8mm	Ant 4	DSI 4	Close	40620	2593	21.09	22.00	1.233	62.9	1.006	0.02	0.282	0.350
	LTE Band 41 HPUE	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	40620	2593	24.89	25.40	1.125	42.9	1.009	0.08	2.270	2.577
	LTE Band 41 HPUE	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	39750	2506	24.84	25.40	1.138	42.9	1.009	0.03	1.940	2.228
	LTE Band 41 HPUE	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	40185	2549.5	24.81	25.40	1.146	42.9	1.009	-0.15	2.030	2.347
	LTE Band 41 HPUE	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	41055	2636.5	24.82	25.40	1.143	42.9	1.009	-0.11	2.000	2.307
	LTE Band 41 HPUE	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	41490	2680	24.77	25.40	1.156	42.9	1.009	0.12	1.990	2.321
	LTE Band 41	20M	QPSK	1	99	Right Side	0mm	Ant 4	DSI 6	Close	40620+40818	2593+2612.8	21.88	23.00	1.294	62.9	1.006	0.03	1.960	2.551
	LTE Band 41 HPUE	20M	QPSK	1	99	Right Side	0mm	Ant 4	DSI 6	Close	40620+40818	2593+2612.8	24.62	25.40	1.197	42.9	1.009	0.02	1.950	2.355
	LTE Band 42	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	42590	3500	23.12	24.00	1.225	62.9	1.006	0.14	1.820	2.243
	LTE Band 42	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	42190	3460	23.06	24.00	1.242	62.9	1.006	0.06	1.850	2.311
	LTE Band 42	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	42990	3540	23.02	24.00	1.253	62.9	1.006	-0.06	1.960	2.471

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	LTE Band 42	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	42590	3500	22.15	23.00	1.216	62.9	1.006	0.00	1.680	2.055
	LTE Band 42	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	42190	3460	22.11	23.00	1.227	62.9	1.006	-0.01	1.650	2.037
	LTE Band 42	20	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	42990	3540	22.13	23.00	1.222	62.9	1.006	0.01	1.610	1.979
	LTE Band 42	20	QPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	42590	3500	22.13	23.00	1.222	62.9	1.006	0.14	1.590	1.955
	LTE Band 42	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	42990+42792	3540+3520.2	22.98	24.00	1.265	62.9	1.006	0.03	1.850	2.354
	LTE Band 42	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 6	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	0.01	1.740	2.188
	LTE Band 42	20	QPSK	1	0	Back Top	0mm	Ant 6	DSI 6	Close	42190	3460	22.01	23.00	1.256	62.9	1.006	0.03	1.650	2.085
	LTE Band 42	20	QPSK	1	0	Back Top	0mm	Ant 6	DSI 6	Close	42990	3540	21.97	23.00	1.268	62.9	1.006	-0.19	1.610	2.054
	LTE Band 42	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 6	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	0.07	1.310	1.570
	LTE Band 42	20	QPSK	100	0	Back Top	0mm	Ant 6	DSI 6	Close	42590	3500	21.20	22.00	1.202	62.9	1.006	-0.02	1.530	1.850
	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	42590	3500	22.03	23.00	1.25	62.9	1.006	0.00	2.000	2.515
	LTE Band 42	20	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	42190	3460	22.01	23.00	1.256	62.9	1.006	-0.06	1.850	2.338
	LTE Band 42	20	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	42990	3540	21.97	23.00	1.268	62.9	1.006	0.19	1.810	2.309
	LTE Band 42	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 6	Close	42590	3500	21.24	22.00	1.191	62.9	1.006	0.06	1.260	1.510
	LTE Band 42	20	QPSK	100	0	Top Side	0mm	Ant 6	DSI 6	Close	42590	3500	21.20	22.00	1.202	62.9	1.006	0.02	1.210	1.463
	LTE Band 42	20M	QPSK	1	99	Top Side	0mm	Ant 6	DSI 6	Close	42590+42788	3500+3519.8	21.98	23.00	1.265	62.9	1.006	0.03	1.750	2.227
140	LTE Band 42	20M	QPSK	1	0	Back Top	0mm	Ant 8	DSI 6	Close	42590	3500	21.72	22.70	1.253	62.9	1.006	-0.18	2.540	3.202
	LTE Band 42	20	QPSK	1	0	Back Top	0mm	Ant 8	DSI 6	Close	42190	3460	21.70	22.70	1.259	62.9	1.006	0.16	2.510	3.179
	LTE Band 42	20	QPSK	1	0	Back Top	0mm	Ant 8	DSI 6	Close	42990	3540	21.68	22.70	1.265	62.9	1.006	0.08	2.470	3.143
	LTE Band 42	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	42590	3500	21.58	22.70	1.294	62.9	1.006	0.05	2.400	3.124
	LTE Band 42	20	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	42190	3460	21.54	22.70	1.306	62.9	1.006	0.10	2.310	3.035
	LTE Band 42	20	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	42990	3540	21.56	22.70	1.3	62.9	1.006	-0.15	2.300	3.008
	LTE Band 42	20	QPSK	100	0	Back Top	0mm	Ant 8	DSI 6	Close	42590	3500	21.46	22.70	1.33	62.9	1.006	-0.16	2.260	3.024
	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	42590	3500	21.72	22.70	1.253	62.9	1.006	-0.16	2.370	2.987
	LTE Band 42	20	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	42190	3460	21.70	22.70	1.259	62.9	1.006	-0.04	2.170	2.748
	LTE Band 42	20	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	42990	3540	21.68	22.70	1.265	62.9	1.006	0.05	2.230	2.838
	LTE Band 42	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	42590	3500	21.58	22.70	1.294	62.9	1.006	-0.14	2.170	2.825
	LTE Band 42	20	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	42190	3460	21.54	22.70	1.306	62.9	1.006	0.02	2.080	2.733
	LTE Band 42	20	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	42990	3540	21.56	22.70	1.3	62.9	1.006	-0.16	2.020	2.642
	LTE Band 42	20	QPSK	100	0	Top Side	0mm	Ant 8	DSI 6	Close	42590	3500	21.46	22.70	1.33	62.9	1.006	0.17	2.090	2.796
	LTE Band 42	20M	QPSK	1	0	Back Top	4mm	Ant 8	DSI 4	Close	42590	3500	23.25	24.00	1.189	62.9	1.006	0.03	1.520	1.818
	LTE Band 42	20M	QPSK	50	0	Back Top	4mm	Ant 8	DSI 4	Close	42590	3500	22.19	23.00	1.205	62.9	1.006	0.02	1.610	1.952
	LTE Band 42	20M	QPSK	1	0	Top Side	7mm	Ant 8	DSI 4	Close	42590	3500	23.25	24.00	1.189	62.9	1.006	0.01	0.680	0.813
	LTE Band 42	20M	QPSK	50	0	Top Side	7mm	Ant 8	DSI 4	Close	42590	3500	22.19	23.00	1.205	62.9	1.006	0.02	0.677	0.821
	LTE Band 42	20M	QPSK	1	99	Back Top	0mm	Ant 8	DSI 6	Close	42590+42788	3500+3519.8	21.66	22.70	1.271	62.9	1.006	0.05	2.260	2.890
	LTE Band 48	20M	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.10	1.550	1.896
	LTE Band 48	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	55340	3560	22.97	24.00	1.268	62.9	1.006	-0.13	1.470	1.875
	LTE Band 48	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	56150	3641	22.95	24.00	1.274	62.9	1.006	0.14	1.420	1.820
	LTE Band 48	20	QPSK	1	0	Back Right	0mm	Ant 4	DSI 6	Close	56640	3690	23.09	24.00	1.233	62.9	1.006	-0.14	1.360	1.687
	LTE Band 48	20M	QPSK	50	0	Back Right	0mm	Ant 4	DSI 6	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	-0.06	1.160	1.413
	LTE Band 48	20M	QPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	55830	3609	22.11	23.00	1.227	62.9	1.006	0.03	1.050	1.296
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.11	1.550	1.896
	LTE Band 48	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	55340	3560	22.97	24.00	1.268	62.9	1.006	-0.13	1.450	1.850
	LTE Band 48	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	56150	3641	22.95	24.00	1.274	62.9	1.006	-0.06	1.360	1.743
	LTE Band 48	20	QPSK	1	0	Right Side	0mm	Ant 4	DSI 6	Close	56640	3690	23.09	24.00	1.233	62.9	1.006	0.06	1.340	1.662
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	-0.12	1.360	1.657
	LTE Band 48	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	55340	3560	22.11	23.00	1.227	62.9	1.006	-0.09	1.300	1.605
	LTE Band 48	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	56150	3641	22.03	23.00	1.25	62.9	1.006	-0.04	1.400	1.761
	LTE Band 48	20	QPSK	50	0	Right Side	0mm	Ant 4	DSI 6	Close	56640	3690	22.09	23.00	1.233	62.9	1.006	-0.11	1.420	1.761
	LTE Band 48	20M	QPSK	100	0	Right Side	0mm	Ant 4	DSI 6	Close	55830	3609	22.11	23.00	1.227	62.9	1.006	0.02	1.030	1.271
	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	-0.12	0.483	0.591
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 6	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.02	0.451	0.549
	LTE Band 48	20M	QPSK	1	0	Back Right	6mm	Ant 4	DSI 4	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.03	0.301	0.368
	LTE Band 48	20M	QPSK	50	0	Back Right	6mm	Ant 4	DSI 4	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.05	0.245	0.298
	LTE Band 48	20M	QPSK	1	0	Right Side	8mm	Ant 4	DSI 4	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.06	0.113	0.138
	LTE Band 48	20M	QPSK	50	0	Right Side	8mm	Ant 4	DSI 4	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.01	0.091	0.111
	LTE Band 48	20M	QPSK	1	0	Top Side	7mm	Ant 4	DSI 4	Close	55830	3609	23.15	24.00	1.216	62.9	1.006	0.02	0.102	0.125
	LTE Band 48	20M	QPSK	50	0	Top Side	7mm	Ant 4	DSI 4	Close	55830	3609	22.17	23.00	1.211	62.9	1.006	0.03	0.092	0.112
	LTE Band 48	20M	QPSK	1	99	Back Right	0mm	Ant 4	DSI 6	Close	55830+56028	3609+3628.8	23.11	24.00	1.227	62.9	1.006	0.02	1.450	1.790
	LTE Band 48	20M	QPSK	1	0	Back Top	0mm	Ant 6	DSI 6	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	-0.06	0.634	0.807
	LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 6	DSI 6	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	0.11	0.540	0.714
	LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	55830	3609	21.98	23.00	1.265	62.9	1.006	-0.16	2.230	2.838
	LTE Band 48	20	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	55340	3560	21.75	23.00	1.334	62.9	1.006	-0.17	2.000	2.684
	LTE Band 48	20	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	56150	3641	21.61	23.00	1.377	62.9	1.006	0.01	1.980	2.743
	LTE Band 48	20	QPSK	1	0	Top Side	0mm	Ant 6	DSI 6	Close	56640	3690	21.75	23.00	1.334	62.9	1.006	-0.11	1.900	2.550
	LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 6	DSI 6	Close	55830	3609	20.81	22.00	1.315	62.9	1.006	0.08	1.840	2.434
	LTE Band 48	20	QPSK	50	0	Top Side	0mm	Ant 6	DSI 6	Close	55340	3560	20.73	22.00	1.34	62.9	1.006	-0.04	1.750	2.359
	LTE Band 48	20	QPSK	50	0	Top Side	0mm	Ant 6	DSI 6	Close	56150	3641	20.69	22.00	1.352					



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LTE Band 48	20	QPSK	1	0	Back Top	0mm	Ant 8	DSI 6	Close	56150	3641	21.79	22.90	1.291	62.9	1.006	0.06	2.450	3.182
LTE Band 48	20	QPSK	1	0	Back Top	0mm	Ant 8	DSI 6	Close	56640	3690	21.87	22.90	1.268	62.9	1.006	0.15	2.410	3.074
LTE Band 48	20M	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	55830	3609	21.82	22.90	1.282	62.9	1.006	0.15	2.340	3.018
LTE Band 48	20	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	55340	3560	21.80	22.90	1.288	62.9	1.006	0.02	2.290	2.967
LTE Band 48	20	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	56150	3641	21.79	22.90	1.291	62.9	1.006	0.09	2.240	2.909
LTE Band 48	20	QPSK	50	0	Back Top	0mm	Ant 8	DSI 6	Close	56640	3690	21.78	22.90	1.294	62.9	1.006	0.01	2.190	2.851
LTE Band 48	20	QPSK	100	0	Back Top	0mm	Ant 8	DSI 6	Close	55830	3609	21.70	22.90	1.318	62.9	1.006	-0.15	2.290	3.036
LTE Band 48	20M	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	55830	3609	21.93	22.90	1.25	62.9	1.006	-0.16	2.270	2.980
LTE Band 48	20	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	55340	3560	21.88	22.90	1.265	62.9	1.006	0.00	2.530	3.220
LTE Band 48	20	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	56150	3641	21.79	22.90	1.291	62.9	1.006	-0.11	2.350	3.052
LTE Band 48	20	QPSK	1	0	Top Side	0mm	Ant 8	DSI 6	Close	56640	3690	21.87	22.90	1.268	62.9	1.006	0.03	2.390	3.049
LTE Band 48	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	55830	3609	21.82	22.90	1.282	62.9	1.006	-0.19	1.980	2.554
LTE Band 48	20	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	55340	3560	21.80	22.90	1.288	62.9	1.006	0.14	2.110	2.734
LTE Band 48	20	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	56150	3641	21.79	22.90	1.291	62.9	1.006	-0.16	2.350	3.052
LTE Band 48	20	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	Close	56640	3690	21.78	22.90	1.294	62.9	1.006	0.09	2.400	3.124
LTE Band 48	20	QPSK	100	0	Top Side	0mm	Ant 8	DSI 6	Close	55830	3609	21.70	22.90	1.318	62.9	1.006	0.01	1.980	2.625
LTE Band 48	20M	QPSK	1	0	Back Top	4mm	Ant 8	DSI 4	Close	55830	3609	23.29	24.00	1.178	62.9	1.006	0.06	1.230	1.458
LTE Band 48	20M	QPSK	50	0	Back Top	4mm	Ant 8	DSI 4	Close	55830	3609	22.06	23.00	1.242	62.9	1.006	0.05	1.150	1.437
LTE Band 48	20M	QPSK	1	0	Top Side	7mm	Ant 8	DSI 4	Close	55830	3609	23.29	24.00	1.178	62.9	1.006	0.01	0.733	0.869
LTE Band 48	20M	QPSK	50	0	Top Side	7mm	Ant 8	DSI 4	Close	55830	3609	22.06	23.00	1.242	62.9	1.006	0.03	0.702	0.877
LTE Band 48	20M	QPSK	1	99	Back Top	0mm	Ant 8	DSI 6	Close	55830+56028	3609+3628.8	21.85	22.90	1.274	62.9	1.006	0.02	2.350	3.012

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	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)
	FR1 n7	50M	BPSK	1	1	Front	0mm	Ant 3	DSI 6	Close	507000	2535	23.64	24.00	1.086			-0.05	0.590	0.641
	FR1 n7	50M	BPSK	135	68	Front	0mm	Ant 3	DSI 6	Close	507000	2535	23.61	24.00	1.094			0.00	0.741	0.811
	FR1 n7	50M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 6	Close	507000	2535	23.64	24.00	1.086			-0.17	1.640	1.781
	FR1 n7	50M	BPSK	135	68	Back Top	0mm	Ant 3	DSI 6	Close	507000	2535	23.61	24.00	1.094			-0.01	1.830	2.002
	FR1 n7	50	BPSK	270	0	Back Top	0mm	Ant 3	DSI 6	Close	507000	2535	23.58	24.00	1.102			0.11	1.790	1.973
	FR1 n7	50M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 6	Close	507000	2535	23.64	24.00	1.086			-0.08	1.680	1.824
	FR1 n7	50M	BPSK	135	68	Top Side	0mm	Ant 3	DSI 6	Close	507000	2535	23.61	24.00	1.094			-0.06	1.600	1.750
	FR1 n7	50M	BPSK	1	1	Front	7mm	Ant 3	DSI 4	Close	507000	2535	22.52	23.50	1.253			0.08	0.348	0.436
	FR1 n7	50M	BPSK	135	68	Front	7mm	Ant 3	DSI 4	Close	507000	2535	22.50	23.50	1.259			-0.18	0.504	0.635
	FR1 n7	50M	BPSK	1	1	Back Top	4mm	Ant 3	DSI 4	Close	507000	2535	22.52	23.50	1.253			0.12	1.350	1.692
	FR1 n7	50M	BPSK	135	68	Back Top	4mm	Ant 3	DSI 4	Close	507000	2535	22.50	23.50	1.259			-0.04	1.410	1.775
	FR1 n7	50M	BPSK	1	1	Top Side	7mm	Ant 3	DSI 4	Close	507000	2535	22.52	23.50	1.253			-0.06	1.440	1.804
	FR1 n7	50M	BPSK	135	68	Top Side	7mm	Ant 3	DSI 4	Close	507000	2535	22.50	23.50	1.259			-0.18	1.570	1.977
	FR1 n7	50M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	507000	2535	22.27	23.00	1.183			0.11	2.030	2.401
142	FR1 n7	50M	BPSK	135	68	Back Right	0mm	Ant 4	DSI 6	Close	507000	2535	22.25	23.00	1.189			-0.09	2.040	2.426
	FR1 n7	50	BPSK	270	0	Back Right	0mm	Ant 4	DSI 6	Close	507000	2535	22.21	23.00	1.199			0.04	2.010	2.410
	FR1 n7	50M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 6	Close	507000	2535	22.27	23.00	1.183			0.10	1.770	2.094
	FR1 n7	50M	BPSK	135	68	Right Side	0mm	Ant 4	DSI 6	Close	507000	2535	22.25	23.00	1.189			-0.06	1.910	2.271
	FR1 n7	50	BPSK	270	0	Right Side	0mm	Ant 4	DSI 6	Close	507000	2535	22.21	23.00	1.199			-0.15	1.740	2.086
	FR1 n7	50M	BPSK	1	1	Back Right	6mm	Ant 4	DSI 4	Close	507000	2535	22.27	23.00	1.183			-0.15	0.480	0.568
	FR1 n7	50M	BPSK	135	68	Back Right	6mm	Ant 4	DSI 4	Close	507000	2535	22.25	23.00	1.189			-0.10	0.413	0.491
	FR1 n7	50M	BPSK	1	1	Right Side	8mm	Ant 4	DSI 4	Close	507000	2535	22.27	23.00	1.183			0.14	0.348	0.412
	FR1 n7	50M	BPSK	135	68	Right Side	8mm	Ant 4	DSI 4	Close	507000	2535	22.25	23.00	1.189			-0.11	0.363	0.432
	FR1 n7	50M	BPSK	1	1	Top Side	7mm	Ant 4	DSI 4	Close	507000	2535	22.27	23.00	1.183			0.07	0.086	0.102
	FR1 n7	50M	BPSK	135	68	Top Side	7mm	Ant 4	DSI 4	Close	507000	2535	22.25	23.00	1.189			-0.10	0.078	0.093
143	FR1 n25	40M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 6	Close	376500	1882.5	22.29	23.40	1.291			-0.09	2.470	3.189
	FR1 n25	40M	BPSK	108	54	Back Top	0mm	Ant 3	DSI 6	Close	376500	1882.5	22.28	23.40	1.294			0.18	2.280	2.950
	FR1 n25	40	BPSK	216	0	Back Top	0mm	Ant 3	DSI 6	Close	376500	1882.5	22.26	23.40	1.3			-0.11	2.220	2.886
	FR1 n25	40M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 6	Close	376500	1882.5	22.29	23.40	1.291			-0.02	2.280	2.943
	FR1 n25	40M	BPSK	108	54	Top Side	0mm	Ant 3	DSI 6	Close	376500	1882.5	22.28	23.40	1.294			0.03	2.160	2.795
	FR1 n25	40	BPSK	216	0	Top Side	0mm	Ant 3	DSI 6	Close	376500	1882.5	22.26	23.40	1.3			-0.11	2.130	2.769
	FR1 n25	40M	BPSK	1	1	Back Top	4mm	Ant 3	DSI 4	Close	376500	1882.5	23.32	24.00	1.169			0.17	1.790	2.093
	FR1 n25	40M	BPSK	108	54	Back Top	4mm	Ant 3	DSI 4	Close	376500	1882.5	23.20	24.00	1.202			0.08	1.730	2.079
	FR1 n25	40	BPSK	216	0	Back Top	4mm	Ant 3	DSI 4	Close	376500	1882.5	23.18	24.00	1.208			0.12	1.720	2.078
	FR1 n25	40M	BPSK	1	1	Top Side	7mm	Ant 3	DSI 4	Close	376500	1882.5	23.32	24.00	1.169			-0.19	1.210	1.414
	FR1 n25	40M	BPSK	108	54	Top Side	7mm	Ant 3	DSI 4	Close	376500	1882.5	23.20	24.00	1.202			-0.07	1.150	1.382
	FR1 n66	45M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 6	Close	349000	1745	21.61	22.50	1.227			-0.04	2.160	2.650
	FR1 n66	45M	BPSK	120	60	Back Top	0mm	Ant 3	DSI 6	Close	349000	1745	21.57	22.50	1.239			-0.12	2.070	2.565
	FR1 n66	45	BPSK	240	0	Back Top	0mm	Ant 3	DSI 6	Close	349000	1745	21.55	22.50	1.245			0.04	1.940	2.415
	FR1 n66	45M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 6	Close	349000	1745	21.61	22.50	1.227			-0.02	2.210	2.712
	FR1 n66	45M	BPSK	120	60	Top Side	0mm	Ant 3	DSI 6	Close	349000	1745	21.57	22.50	1.239			0.00	2.170	2.689
144	FR1 n66	45	BPSK	240	0	Top Side	0mm	Ant 3	DSI 6	Close	349000	1745	21.55	22.50	1.245			-0.08	2.320	2.888
	FR1 n66	45M	BPSK	1	1	Back Top	4mm	Ant 3	DSI 4	Close	349000	1745	23.62	24.00	1.091			0.11	1.660	1.811
	FR1 n66	45M	BPSK	120	60	Back Top	4mm	Ant 3	DSI 4	Close	349000	1745	23.58	24.00	1.102			0.05	1.780	1.962
	FR1 n66	45M	BPSK	1	1	Top Side	7mm	Ant 3	DSI 4	Close	349000	1745	23.62	24.00	1.091			0.05	1.090	1.189

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	FR1 n66	45M	BPSK	120	60	Top Side	7mm	Ant 3	DSI 4	Close	349000	1745	23.58	24.00	1.102			0.19	1.120	1.234
	FR1 n41	100M	BPSK	1	1	Front	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.57	21.00	1.39			-0.07	0.646	0.898
	FR1 n41	100M	BPSK	135	69	Front	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.56	21.00	1.393			0.13	0.480	0.669
	FR1 n41	100M	BPSK	1	1	Back Top	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.57	21.00	1.39			-0.02	1.570	2.182
	FR1 n41	100M	BPSK	135	69	Back Top	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.56	21.00	1.393			-0.14	1.340	1.867
	FR1 n41	100	BPSK	270	0	Back Top	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.53	21.00	1.403			0.02	1.380	1.936
	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.57	21.00	1.39			-0.17	1.350	1.877
	FR1 n41	100M	BPSK	135	69	Top Side	0mm	Ant 3	DSI 6	Close	518598	2592.99	19.56	21.00	1.393			-0.03	1.150	1.602
	FR1 n41	100M	BPSK	1	1	Front	7mm	Ant 3	DSI 4	Close	518598	2592.99	22.56	23.50	1.242			0.16	1.120	1.391
	FR1 n41	100M	BPSK	135	69	Front	7mm	Ant 3	DSI 4	Close	518598	2592.99	22.52	23.50	1.253			0.18	0.366	0.459
	FR1 n41	100M	BPSK	1	1	Back Top	4mm	Ant 3	DSI 4	Close	518598	2592.99	22.56	23.50	1.242			-0.14	1.550	1.925
	FR1 n41	100M	BPSK	135	69	Back Top	4mm	Ant 3	DSI 4	Close	518598	2592.99	22.52	23.50	1.253			-0.09	1.470	1.842
	FR1 n41	100M	BPSK	1	1	Top Side	7mm	Ant 3	DSI 4	Close	518598	2592.99	22.56	23.50	1.242			0.00	1.310	1.627
	FR1 n41	100M	BPSK	135	69	Top Side	7mm	Ant 3	DSI 4	Close	518598	2592.99	22.52	23.50	1.253			-0.12	1.230	1.541
	FR1 n41 HPUE	100	BPSK	1	1	Back Top	0mm	Ant 3	DSI 6	Close	518598	2592.99	22.49	24.00	1.416	50.0	1.0	0.03	1.460	2.067
145	FR1 n41	100M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	518598	2592.99	21.30	21.70	1.096			0.01	2.030	2.225
	FR1 n41	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 6	Close	518598	2592.99	21.21	21.70	1.119			-0.15	1.960	2.193
	FR1 n41	100	BPSK	270	0	Back Right	0mm	Ant 4	DSI 6	Close	518598	2592.99	21.14	21.70	1.138			0.09	1.850	2.105
	FR1 n41	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 6	Close	518598	2592.99	21.30	21.70	1.096			-0.08	1.640	1.797
	FR1 n41	100M	BPSK	135	69	Right Side	0mm	Ant 4	DSI 6	Close	518598	2592.99	21.21	21.70	1.119			0.07	1.520	1.701
	FR1 n41	100M	BPSK	1	1	Back Right	6mm	Ant 4	DSI 4	Close	518598	2592.99	22.18	23.00	1.208			0.03	0.533	0.644
	FR1 n41	100M	BPSK	135	69	Back Right	6mm	Ant 4	DSI 4	Close	518598	2592.99	22.15	23.00	1.216			-0.04	0.511	0.621
	FR1 n41	100M	BPSK	1	1	Right Side	8mm	Ant 4	DSI 4	Close	518598	2592.99	22.18	23.00	1.208			0.12	0.324	0.391
	FR1 n41	100M	BPSK	135	69	Right Side	8mm	Ant 4	DSI 4	Close	518598	2592.99	22.15	23.00	1.216			0.12	0.390	0.474
	FR1 n41	100M	BPSK	1	1	Top Side	7mm	Ant 4	DSI 4	Close	518598	2592.99	22.18	23.00	1.208			-0.03	0.068	0.082
	FR1 n41	100M	BPSK	135	69	Top Side	7mm	Ant 4	DSI 4	Close	518598	2592.99	22.15	23.00	1.216			-0.18	0.081	0.098
	FR1 n41 HPUE	100	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	518598	2592.99	24.34	24.70	1.086	50.0	1.0	0.15	2.020	2.194
	FR1 n48	40M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	641666	3624.99	21.65	23.00	1.365			0.13	1.510	2.061
	FR1 n48	40	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	638000	3570	21.61	23.00	1.377			-0.11	1.380	1.900
	FR1 n48	40	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	645332	3679.98	21.59	23.00	1.384			-0.03	1.330	1.841
	FR1 n48	40M	BPSK	50	28	Back Right	0mm	Ant 4	DSI 6	Close	641666	3624.99	21.63	23.00	1.371			-0.04	1.540	2.111
	FR1 n48	40	BPSK	50	28	Back Right	0mm	Ant 4	DSI 6	Close	638000	3570	21.55	23.00	1.396			-0.17	1.700	2.373
	FR1 n48	40	BPSK	50	28	Back Right	0mm	Ant 4	DSI 6	Close	645332	3679.98	21.58	23.00	1.387			0.09	1.500	2.081
	FR1 n48	40	BPSK	100	0	Back Right	0mm	Ant 4	DSI 6	Close	641666	3624.99	21.60	23.00	1.38			-0.03	1.430	1.973
	FR1 n48	40M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 6	Close	641666	3624.99	21.65	23.00	1.365			-0.09	1.070	1.461
	FR1 n48	40M	BPSK	50	28	Right Side	0mm	Ant 4	DSI 6	Close	641666	3624.99	21.63	23.00	1.371			-0.08	1.210	1.659
	FR1 n48	40	BPSK	50	28	Right Side	0mm	Ant 4	DSI 6	Close	638000	3570	21.55	23.00	1.396			-0.05	1.120	1.564
	FR1 n48	40	BPSK	50	28	Right Side	0mm	Ant 4	DSI 6	Close	645332	3679.98	21.58	23.00	1.387			0.02	1.110	1.540
	FR1 n48	40M	BPSK	1	1	Back Right	6mm	Ant 4	DSI 4	Close	641666	3624.99	23.21	24.00	1.199			0.03	0.426	0.511
	FR1 n48	40M	BPSK	50	28	Back Right	6mm	Ant 4	DSI 4	Close	641666	3624.99	23.19	24.00	1.205			0.05	0.475	0.572
	FR1 n48	40M	BPSK	1	1	Right Side	8mm	Ant 4	DSI 4	Close	641666	3624.99	23.21	24.00	1.199			0.06	0.173	0.207
	FR1 n48	40M	BPSK	50	28	Right Side	8mm	Ant 4	DSI 4	Close	641666	3624.99	23.19	24.00	1.205			0.01	0.195	0.235
	FR1 n48	40M	BPSK	1	1	Top Side	7mm	Ant 4	DSI 4	Close	641666	3624.99	23.21	24.00	1.199			0.03	0.148	0.177
	FR1 n48	40M	BPSK	50	28	Top Side	7mm	Ant 4	DSI 4	Close	641666	3624.99	23.19	24.00	1.205			0.02	0.147	0.177
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 6	Close	641666	3624.99	23.43	24.00	1.14			-0.15	1.500	1.710
	FR1 n48	40	BPSK	1	1	Back Top	0mm	Ant 6	DSI 6	Close	638000	3570	23.38	24.00	1.153			-0.17	1.350	1.557
	FR1 n48	40	BPSK	1	1	Back Top	0mm	Ant 6	DSI 6	Close	645332	3679.98	23.35	24.00	1.161			0.00	1.060	1.231
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 6	DSI 6	Close	641666	3624.99	23.40	24.00	1.148			0.09	1.340	1.538
	FR1 n48	40	BPSK	50	28	Back Top	0mm	Ant 6	DSI 6	Close	638000	3570	23.36	24.00	1.159			0.18	1.330	1.541
	FR1 n48	40	BPSK	50	28	Back Top	0mm	Ant 6	DSI 6	Close	645332	3679.98	23.33	24.00	1.167			0.14	1.150	1.342
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 6	Close	641666	3624.99	23.43	24.00	1.14			-0.08	1.370	1.562
	FR1 n48	40	BPSK	1	1	Top Side	0mm	Ant 6	DSI 6	Close	638000	3570	23.38	24.00	1.153			-0.16	1.360	1.568
	FR1 n48	40	BPSK	1	1	Top Side	0mm	Ant 6	DSI 6	Close	645332	3679.98	23.35	24.00	1.161			-0.01	1.330	1.544
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 6	DSI 6	Close	641666	3624.99	23.40	24.00	1.148			-0.12	1.250	1.435
	FR1 n48	40M	BPSK	1	1	Back Top	4mm	Ant 6	DSI 4	Close	641666	3624.99	23.43	24.00	1.14			0.03	0.621	0.708
	FR1 n48	40M	BPSK	50	28	Back Top	4mm	Ant 6	DSI 4	Close	641666	3624.99	23.40	24.00	1.148			0.05	0.701	0.805
	FR1 n48	40M	BPSK	1	1	Top Side	7mm	Ant 6	DSI 4	Close	641666	3624.99	23.43	24.00	1.14			0.06	0.320	0.365
	FR1 n48	40M	BPSK	50	28	Top Side	7mm	Ant 6	DSI 4	Close	641666	3624.99	23.40	24.00	1.148			0.01	0.307	0.352
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 6	Close	641666	3624.99	18.56	20.20	1.459			0.14	1.970	2.874
	FR1 n48	40	BPSK	1	1	Back Top	0mm	Ant 8	DSI 6	Close	638000	3570	18.52	20.20	1.472			0.17	1.810	2.664
146	FR1 n48	40	BPSK	1	1	Back Top	0mm	Ant 8	DSI 6	Close	645332	3679.98	18.50	20.20	1.479			-0.14	2.060	3.047
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8	DSI 6	Close	641666	3624.99	18.52	20.20	1.472			0.04	2.040	3.003
	FR1 n48	40	BPSK	50	28	Back Top	0mm	Ant 8	DSI 6	Close	638000	3570	18.44	20.20	1.5			0.15	1.940	2.910
	FR1 n48	40	BPSK	50	28	Back Top	0mm	Ant 8	DSI 6	Close	645332	3679.98	18.49	20.20	1.483			-0.05	1.980	2.936
	FR1 n48	40	BPSK	100	0	Back Top	0mm	Ant 8	DSI 6	Close	641666	3624.99	18.42	20.20	1.507			-0.11	2.010	3.029
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 6	Close	641666	3624.99	18.56	20.20	1.459			-0.13	1.490	2.174
	FR1 n48	40	BPSK	1	1	Top Side	0mm	Ant 8	DSI 6	Close	638000	3570	18.52	20.20	1.472			0.14	1.470	2.164
	FR1 n48	40	BPSK	1	1	Top Side	0mm	Ant 8	DSI 6	Close	645332	3679.98	18.50	20.20	1.479			0.15	1.430	2.115
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8	DSI 6	Close	641666	3624.99	18.52	20.20	1.472			0.10	1.610	2.370
	FR1 n48	40	BPSK	50	28	Top Side	0mm	Ant 8	DSI 6	Close	638000	3570	18.44	20.20	1.5			-0.09	1.530	2.295
	FR1 n48	40	BPSK	50	28	Top Side	0mm	Ant 8	DSI 6	Close	645332	3679.98	18.49	20.20	1.483					



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	FR1 n48	40M	BPSK	1	1	Back Top	4mm	Ant 8	DSI 4	Close	641666	3624.99	23.15	24.00	1.216			0.02	1.850	2.250
	FR1 n48	40	BPSK	1	1	Back Top	4mm	Ant 8	DSI 4	Close	638000	3570	23.10	24.00	1.23			0.03	1.750	2.153
	FR1 n48	40	BPSK	1	1	Back Top	4mm	Ant 8	DSI 4	Close	645332	3679.98	23.13	24.00	1.222			0.01	1.690	2.065
	FR1 n48	40M	BPSK	50	28	Back Top	4mm	Ant 8	DSI 4	Close	641666	3624.99	23.11	24.00	1.227			0.05	1.740	2.135
	FR1 n48	40	BPSK	50	28	Back Top	4mm	Ant 8	DSI 4	Close	638000	3570	23.08	24.00	1.236			0.05	1.710	2.114
	FR1 n48	40	BPSK	50	28	Back Top	4mm	Ant 8	DSI 4	Close	645332	3679.98	23.06	24.00	1.242			0.06	1.680	2.087
	FR1 n48	40	BPSK	100	0	Back Top	4mm	Ant 8	DSI 4	Close	641666	3624.99	23.04	24.00	1.247			0.02	1.840	2.294
	FR1 n48	40M	BPSK	1	1	Top Side	7mm	Ant 8	DSI 4	Close	641666	3624.99	23.15	24.00	1.216			0.01	1.080	1.313
	FR1 n48	40M	BPSK	50	28	Top Side	7mm	Ant 8	DSI 4	Close	641666	3624.99	23.11	24.00	1.227			0.05	1.060	1.301
	FR1 n77	100M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	633332	3499.98	23.23	24.00	1.194			0.02	2.150	2.567
	FR1 n77	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 6	Close	633332	3499.98	23.20	24.00	1.202			0.18	1.980	2.380
	FR1 n77	100	BPSK	270	0	Back Right	0mm	Ant 4	DSI 6	Close	633332	3499.98	23.16	24.00	1.213			-0.14	2.090	2.535
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 6	Close	633332	3499.98	23.23	24.00	1.194			0.02	0.951	1.135
	FR1 n77	100M	BPSK	135	69	Right Side	0mm	Ant 4	DSI 6	Close	633332	3499.98	23.20	24.00	1.202			-0.11	0.983	1.182
	FR1 n77	100M	BPSK	1	1	Back Right	6mm	Ant 4	DSI 4	Close	633332	3499.98	23.23	24.00	1.194			-0.07	0.592	0.707
	FR1 n77	100M	BPSK	135	69	Back Right	6mm	Ant 4	DSI 4	Close	633332	3499.98	23.20	24.00	1.202			0.05	0.526	0.632
	FR1 n77	100M	BPSK	1	1	Right Side	8mm	Ant 4	DSI 4	Close	633332	3499.98	23.23	24.00	1.194			-0.05	0.260	0.310
	FR1 n77	100M	BPSK	135	69	Right Side	8mm	Ant 4	DSI 4	Close	633332	3499.98	23.20	24.00	1.202			0.08	0.209	0.251
	FR1 n77 HPUE	100	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	633332	3499.98	26.23	27.00	1.194	50.0	1.0	0.03	2.110	2.519
	FR1 n77	100M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 6	Close	633332	3499.98	23.34	24.00	1.164			0.02	1.890	2.200
	FR1 n77	100M	BPSK	135	69	Back Top	0mm	Ant 6	DSI 6	Close	633332	3499.98	23.24	24.00	1.191			-0.10	1.980	2.358
	FR1 n77	100	BPSK	270	0	Back Top	0mm	Ant 6	DSI 6	Close	633332	3499.98	23.09	24.00	1.233			-0.11	1.910	2.355
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 6	Close	633332	3499.98	23.34	24.00	1.164			0.08	1.770	2.060
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 6	DSI 6	Close	633332	3499.98	23.24	24.00	1.191			0.06	1.650	1.965
	FR1 n77	100	BPSK	270	0	Top Side	0mm	Ant 6	DSI 6	Close	633332	3499.98	23.09	24.00	1.233			0.18	1.610	1.985
	FR1 n77	100M	BPSK	1	1	Back Top	4mm	Ant 6	DSI 4	Close	633332	3499.98	23.34	24.00	1.164			0.03	0.664	0.773
	FR1 n77	100M	BPSK	135	69	Back Top	4mm	Ant 6	DSI 4	Close	633332	3499.98	23.24	24.00	1.191			0.07	0.733	0.873
	FR1 n77	100M	BPSK	1	1	Top Side	7mm	Ant 6	DSI 4	Close	633332	3499.98	23.34	24.00	1.164			0.10	0.283	0.329
	FR1 n77	100M	BPSK	135	69	Top Side	7mm	Ant 6	DSI 4	Close	633332	3499.98	23.24	24.00	1.191			0.04	0.326	0.388
	FR1 n77 HPUE	100	BPSK	135	69	Back Top	0mm	Ant 6	DSI 6	Close	633332	3499.98	26.16	27.00	1.213	50.0	1.0	0.03	1.910	2.317
	FR1 n77	100M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 6	Close	633332	3499.98	18.98	19.90	1.236			-0.11	1.360	1.681
	FR1 n77	100M	BPSK	135	69	Back Top	0mm	Ant 8	DSI 6	Close	633332	3499.98	18.95	19.90	1.245			0.13	1.140	1.419
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 6	Close	633332	3499.98	18.98	19.90	1.236			0.08	1.190	1.471
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 8	DSI 6	Close	633332	3499.98	18.95	19.90	1.245			0.08	1.430	1.780
	FR1 n77	100M	BPSK	1	1	Back Top	4mm	Ant 8	DSI 4	Close	633332	3499.98	23.48	24.00	1.127			-0.12	1.370	1.544
	FR1 n77	100M	BPSK	135	69	Back Top	4mm	Ant 8	DSI 4	Close	633332	3499.98	23.40	24.00	1.148			0.02	1.330	1.527
	FR1 n77	100M	BPSK	1	1	Top Side	7mm	Ant 8	DSI 4	Close	633332	3499.98	23.48	24.00	1.127			0.14	0.903	1.018
	FR1 n77	100M	BPSK	135	69	Top Side	7mm	Ant 8	DSI 4	Close	633332	3499.98	23.40	24.00	1.148			0.17	0.938	1.077
	FR1 n77 HPUE	100	BPSK	135	69	Top Side	0mm	Ant 8	DSI 6	Close	633332	3499.98	21.78	22.90	1.294	50.0	1.0	0.03	1.280	1.656
	FR1 n77	100M	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	656000	3840	23.52	24.00	1.117			0.01	1.770	1.977
	FR1 n77	100M	BPSK	135	69	Back Right	0mm	Ant 4	DSI 6	Close	656000	3840	23.48	24.00	1.127			0.05	1.640	1.848
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 4	DSI 6	Close	656000	3840	23.52	24.00	1.117			-0.11	1.000	1.117
	FR1 n77	100M	BPSK	135	69	Right Side	0mm	Ant 4	DSI 6	Close	656000	3840	23.48	24.00	1.127			0.02	0.849	0.957
	FR1 n77	100M	BPSK	1	1	Back Right	6mm	Ant 4	DSI 4	Close	656000	3840	23.52	24.00	1.117			0.03	0.555	0.620
	FR1 n77	100M	BPSK	135	69	Back Right	6mm	Ant 4	DSI 4	Close	656000	3840	23.48	24.00	1.127			0.02	0.453	0.511
	FR1 n77	100M	BPSK	1	1	Right Side	8mm	Ant 4	DSI 4	Close	656000	3840	23.52	24.00	1.117			0.01	0.249	0.278
	FR1 n77	100M	BPSK	135	69	Right Side	8mm	Ant 4	DSI 4	Close	656000	3840	23.48	24.00	1.127			0.05	0.186	0.210
	FR1 n77 HPUE	100	BPSK	1	1	Back Right	0mm	Ant 4	DSI 6	Close	656000	3840	26.44	27.00	1.138	50.0	1.0	0.17	1.620	1.844
	FR1 n77	100M	BPSK	1	1	Back Top	0mm	Ant 6	DSI 6	Close	656000	3840	23.40	24.00	1.148			-0.19	0.587	0.674
	FR1 n77	100M	BPSK	135	69	Back Top	0mm	Ant 6	DSI 6	Close	656000	3840	23.34	24.00	1.164			0.10	0.563	0.655
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 6	DSI 6	Close	656000	3840	23.40	24.00	1.148			0.01	1.010	1.159
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 6	DSI 6	Close	656000	3840	23.34	24.00	1.164			0.17	0.866	1.008
	FR1 n77 HPUE	100	BPSK	1	1	Top Side	0mm	Ant 6	DSI 6	Close	656000	3840	26.46	27.00	1.132	50.0	1.0	0.03	0.986	1.116
147	FR1 n77	100M	BPSK	1	1	Back Top	0mm	Ant 8	DSI 6	Close	656000	3840	18.99	19.90	1.233			-0.07	2.500	3.083
	FR1 n77	100M	BPSK	135	69	Back Top	0mm	Ant 8	DSI 6	Close	656000	3840	18.81	19.90	1.285			-0.14	2.160	2.776
	FR1 n77	100	BPSK	270	0	Back Top	0mm	Ant 8	DSI 6	Close	656000	3840	18.76	19.90	1.3			0.16	2.200	2.860
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 8	DSI 6	Close	656000	3840	18.99	19.90	1.233			0.15	2.120	2.614
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 8	DSI 6	Close	656000	3840	18.81	19.90	1.285			0.05	2.080	2.673
	FR1 n77	100	BPSK	270	0	Top Side	0mm	Ant 8	DSI 6	Close	656000	3840	18.76	19.90	1.3			-0.03	2.170	2.821
	FR1 n77	100M	BPSK	1	1	Back Top	4mm	Ant 8	DSI 4	Close	656000	3840	23.49	24.00	1.125			0.02	1.720	1.935
	FR1 n77	100M	BPSK	135	69	Back Top	4mm	Ant 8	DSI 4	Close	656000	3840	23.34	24.00	1.164			0.13	1.530	1.781
	FR1 n77	100M	BPSK	1	1	Top Side	7mm	Ant 8	DSI 4	Close	656000	3840	23.49	24.00	1.125			-0.05	0.818	0.920
	FR1 n77	100M	BPSK	135	69	Top Side	7mm	Ant 8	DSI 4	Close	656000	3840	23.34	24.00	1.164			-0.02	0.724	0.843
	FR1 n77 HPUE	100	BPSK	1	1	Back Top	0mm	Ant 8	DSI 6	Close	656000	3840	21.93	22.90	1.25	50.0	1.0	-0.07	2.300	2.875

MIMO SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
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																				Factor				
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	641666	3624.99	21.16	22.70	1.426	100	1.000	0.07	1.637	2.334				
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	638000	3570	21.05	22.70	1.462	100	1.000	0.16	1.833	2.68				
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	645332	3679.98	21.02	22.70	1.472	100	1.000	0.13	1.869	2.751				
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+4	DSI 6	Close	641666	3624.99	21.00	22.70	1.479	100	1.000	-0.18	1.905	2.817				
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+4	DSI 6	Close	638000	3570	20.96	22.70	1.493	100	1.000	0.02	1.931	2.883				
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+4	DSI 6	Close	645332	3679.98	20.99	22.70	1.482	100	1.000	0.16	1.842	2.73				
	FR1 n48	40M	BPSK	100	0	Back Top	0mm	Ant 8+4	DSI 6	Close	641666	3624.99	20.93	22.70	1.503	100	1.000	-0.03	1.851	2.782				
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 6	Close	641666	3624.99	21.16	22.70	1.426	100	1.000	0.07	1.250	1.783				
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+4	DSI 6	Close	641666	3624.99	21.00	22.70	1.479	100	1.000	0	1.210	1.79				
	FR1 n48	40M	BPSK	1	1	Back Top	4mm	Ant 8+4	DSI 4	Close	641666	3624.99	26.19	27.00	1.205	100	1.000	0.01	1.550	1.868				
	FR1 n48	40M	BPSK	50	28	Back Top	4mm	Ant 8+4	DSI 4	Close	641666	3624.99	26.16	27.00	1.213	100	1.000	-0.01	1.520	1.844				
	FR1 n48	40M	BPSK	1	1	Top Side	7mm	Ant 8+4	DSI 4	Close	641666	3624.99	26.19	27.00	1.205	100	1.000	-0.06	0.987	1.189				
	FR1 n48	40M	BPSK	50	28	Top Side	7mm	Ant 8+4	DSI 4	Close	641666	3624.99	26.16	27.00	1.213	100	1.000	-0.04	0.945	1.146				
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 6	Close	641666	3624.99	21.57	23.20	1.455	100	1.000	-0.17	1.540	2.241				
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 6	Close	638000	3570	21.53	23.20	1.469	100	1.000	-0.1	1.910	2.806				
	FR1 n48	40M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 6	Close	645332	3679.98	21.51	23.20	1.476	100	1.000	0.18	1.960	2.893				
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+6	DSI 6	Close	641666	3624.99	21.53	23.20	1.469	100	1.000	-0.17	1.950	2.865				
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+6	DSI 6	Close	638000	3570	21.45	23.20	1.496	100	1.000	-0.04	1.730	2.588				
	FR1 n48	40M	BPSK	50	28	Back Top	0mm	Ant 8+6	DSI 6	Close	645332	3679.98	21.50	23.20	1.479	100	1.000	-0.05	1.700	2.514				
	FR1 n48	40M	BPSK	100	0	Back Top	0mm	Ant 8+6	DSI 6	Close	641666	3624.99	21.43	23.20	1.503	100	1.000	0	1.940	2.916				
	FR1 n48	40M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 6	Close	641666	3624.99	21.57	23.20	1.455	100	1.000	-0.13	1.340	1.95				
	FR1 n48	40M	BPSK	50	28	Top Side	0mm	Ant 8+6	DSI 6	Close	641666	3624.99	21.53	23.20	1.469	100	1.000	-0.01	1.330	1.954				
	FR1 n48	40M	BPSK	1	1	Back Top	4mm	Ant 8+6	DSI 4	Close	641666	3624.99	26.30	27.00	1.174	100	1.000	-0.09	1.650	1.937				
	FR1 n48	40M	BPSK	50	28	Back Top	4mm	Ant 8+6	DSI 4	Close	641666	3624.99	26.27	27.00	1.184	100	1.000	0.05	1.630	1.93				
	FR1 n48	40M	BPSK	1	1	Top Side	7mm	Ant 8+6	DSI 4	Close	641666	3624.99	26.30	27.00	1.174	100	1.000	0.02	1.220	1.432				
	FR1 n48	40M	BPSK	50	28	Top Side	7mm	Ant 8+6	DSI 4	Close	641666	3624.99	26.27	27.00	1.184	100	1.000	-0.13	1.040	1.231				
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	633332	3499.98	21.99	22.90	1.233	50	1.000	0.06	1.150	1.418				
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+4	DSI 6	Close	633332	3499.98	21.96	22.90	1.242	50	1.000	0	1.060	1.317				
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 6	Close	633332	3499.98	21.99	22.90	1.233	50	1.000	-0.04	0.791	0.975				
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+4	DSI 6	Close	633332	3499.98	21.96	22.90	1.242	50	1.000	-0.15	0.729	0.905				
	FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	633332	3499.98	24.83	25.90	1.279	50	1.000	0.11	1.100	1.407				
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	4mm	Ant 8+4	DSI 4	Close	633332	3499.98	26.37	27.00	1.157	50	1.000	-0.02	0.639	0.739				
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	4mm	Ant 8+4	DSI 4	Close	633332	3499.98	26.31	27.00	1.172	50	1.000	0.1	0.573	0.672				
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	7mm	Ant 8+4	DSI 4	Close	633332	3499.98	26.37	27.00	1.157	50	1.000	0.04	0.314	0.363				
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	7mm	Ant 8+4	DSI 4	Close	633332	3499.98	26.31	27.00	1.172	50	1.000	0.13	0.291	0.341				
	FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	4mm	Ant 8+4	DSI 4	Close	633332	3499.98	29.34	30.00	1.164	50	1.000	-0.18	0.569	0.662				
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 6	Close	633332	3499.98	21.99	22.90	1.233	50	1.000	-0.16	1.140	1.406				
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+6	DSI 6	Close	633332	3499.98	21.96	22.90	1.242	50	1.000	-0.15	1.190	1.478				
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 6	Close	633332	3499.98	21.99	22.90	1.233	50	1.000	-0.06	1.050	1.295				
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+6	DSI 6	Close	633332	3499.98	21.96	22.90	1.242	50	1.000	-0.14	1.060	1.317				
	FR1 n77_HPUE_PC1.5	100M	BPSK	135	69	Back Top	0mm	Ant 8+6	DSI 6	Close	633332	3499.98	24.79	25.90	1.291	50	1.000	-0.19	1.090	1.407				
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	4mm	Ant 8+6	DSI 4	Close	633332	3499.98	26.42	27.00	1.143	50	1.000	0.01	0.595	0.68				
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	4mm	Ant 8+6	DSI 4	Close	633332	3499.98	26.33	27.00	1.167	50	1.000	0.06	0.564	0.658				
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	7mm	Ant 8+6	DSI 4	Close	633332	3499.98	26.42	27.00	1.143	50	1.000	0.02	0.312	0.357				
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	7mm	Ant 8+6	DSI 4	Close	633332	3499.98	26.33	27.00	1.167	50	1.000	0.12	0.303	0.354				
	FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	4mm	Ant 8+6	DSI 4	Close	633332	3499.98	29.41	30.00	1.147	50	1.000	-0.16	0.601	0.689				
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	656000	3840	22.00	22.90	1.230	50	1.000	0.07	1.210	1.488				
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+4	DSI 6	Close	656000	3840	21.82	22.90	1.282	50	1.000	-0.02	1.090	1.397				
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+4	DSI 6	Close	656000	3840	22.00	22.90	1.230	50	1.000	-0.05	1.010	1.242				
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+4	DSI 6	Close	656000	3840	21.82	22.90	1.282	50	1.000	-0.13	0.927	1.188				
	FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	0mm	Ant 8+4	DSI 6	Close	656000	3840	24.94	25.90	1.247	50	1.000	0.08	1.140	1.422				
	FR1 n77_HPUE	100M	BPSK	1	1	Back Top	4mm	Ant 8+4	DSI 4	Close	656000	3840	26.52	27.00	1.118	50	1.000	0.16	0.475	0.531				
	FR1 n77_HPUE	100M	BPSK	135	69	Back Top	4mm	Ant 8+4	DSI 4	Close	656000	3840	26.42	27.00	1.143	50	1.000	0.01	0.399	0.456				
	FR1 n77_HPUE	100M	BPSK	1	1	Top Side	7mm	Ant 8+4	DSI 4	Close	656000	3840	26.52	27.00	1.118	50	1.000	-0.16	0.245	0.274				
	FR1 n77_HPUE	100M	BPSK	135	69	Top Side	7mm	Ant 8+4	DSI 4	Close	656000	3840	26.42	27.00	1.143	50	1.000	0.1	0.205	0.234				



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FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	4mm	Ant 8+4	DSI 4	Close	656000	3840	29.50	30.00	1.123	50	1.000	-0.04	0.502	0.564
FR1 n77_HPUE	100M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 6	Close	656000	3840	22.00	22.90	1.230	50	1.000	0	1.440	1.771
FR1 n77_HPUE	100M	BPSK	135	69	Back Top	0mm	Ant 8+6	DSI 6	Close	656000	3840	21.82	22.90	1.282	50	1.000	-0.11	1.290	1.654
FR1 n77_HPUE	100M	BPSK	1	1	Top Side	0mm	Ant 8+6	DSI 6	Close	656000	3840	22.00	22.90	1.230	50	1.000	-0.06	1.100	1.353
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	0mm	Ant 8+6	DSI 6	Close	656000	3840	21.82	22.90	1.282	50	1.000	-0.15	1.030	1.32
FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	0mm	Ant 8+6	DSI 6	Close	656000	3840	24.94	25.90	1.247	50	1.000	0.03	1.280	1.596
FR1 n77_HPUE	100M	BPSK	1	1	Back Top	4mm	Ant 8+6	DSI 4	Close	656000	3840	26.46	27.00	1.134	50	1.000	-0.13	0.585	0.663
FR1 n77_HPUE	100M	BPSK	135	69	Back Top	4mm	Ant 8+6	DSI 4	Close	656000	3840	26.35	27.00	1.161	50	1.000	0.16	0.486	0.564
FR1 n77_HPUE	100M	BPSK	1	1	Top Side	7mm	Ant 8+6	DSI 4	Close	656000	3840	26.46	27.00	1.134	50	1.000	-0.15	0.280	0.318
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	7mm	Ant 8+6	DSI 4	Close	656000	3840	26.35	27.00	1.161	50	1.000	-0.02	0.236	0.274
FR1 n77_HPUE_PC1.5	100M	BPSK	1	1	Back Top	4mm	Ant 8+6	DSI 4	Close	656000	3840	29.51	30.00	1.121	50	1.000	-0.09	0.557	0.624

LTE CA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	99	Top Side	0mm	Ant 3	DSI 6	Close	18900+18900	1880+1899.8	22.01	24.00	1.581	0.03	1.950	3.083
	LTE Band 2	20M	QPSK	1	99	Back Right	0mm	Ant 4	DSI 6	Close	18900+18900	1880+1899.8	21.53	23.00	1.403	0.06	1.410	1.978

NRCA SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Maximum Duty Cycle %	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	FR1 n41	100M	BPSK	144	129	Back Top	0mm	Ant 3	DSI 6	Close	509598+528582	2547.99+2642.91	19.35	21.00	1.462	100.0	1.000	100.0	0.03	1.430	2.091
	FR1 n41	100M	BPSK	144	129	Back Right	0mm	Ant 4	DSI 6	Close	509598+528582	2547.99+2642.91	21.03	21.70	1.167	100.0	1.000	100.0	-0.03	1.850	2.159
	FR1 n77	100M	BPSK	162	108	Back Right	0mm	Ant 4	DSI 6	Close	644000+648328	3660+3724.92	23.03	24.00	1.250	100.0	1.000	100.0	0.03	1.560	1.950
	FR1 n77 HPUE	100M	BPSK	162	108	Back Right	0mm	Ant 4	DSI 6	Close	644000+648328	3660+3724.92	26.05	27.00	1.245	50.0	1.000	50.0	0.05	1.450	1.805
	FR1 n77	100M	BPSK	162	108	Top Side	0mm	Ant 6	DSI 6	Close	644000+648328	3660+3724.92	23.13	24.00	1.222	100.0	1.000	100.0	0.06	0.869	1.062
	FR1 n77	100M	BPSK	162	108	Back Top	0mm	Ant 8	DSI 6	Close	644000+648328	3660+3724.92	18.83	19.90	1.279	100.0	1.000	100.0	0.05	2.300	2.942
	FR1 n77 HPUE	100M	BPSK	162	108	Back Top	0mm	Ant 8	DSI 6	Close	644000+648328	3660+3724.92	21.75	22.90	1.303	50.0	1.000	50.0	0.05	2.100	2.736

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	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)
148	WLAN2.4GHz	802.11b 1Mbps	Back Top	0mm	Ant 7+11(7)	DSI 6	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.14	1.290	1.978
	WLAN2.4GHz	802.11b 1Mbps	Back Left	0mm	Ant 7+11(7)	DSI 6	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.05	0.781	1.198
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+11(7)	DSI 6	Close	11	2462	20.77	22.50	1.489	97.05	1.03	-0.17	0.820	1.258
149	WLAN5GHz	802.11ac-VHT40 MCS0	Back Top	0mm	Ant 6+1(6)	DSI 6	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.09	1.130	1.690
	WLAN5GHz	802.11ac-VHT40 MCS0	Back Right	0mm	Ant 6+1(6)	DSI 6	Close	54	5270	16.75	18.50	1.496	100.00	1.000	0.12	0.844	1.263
	WLAN5GHz	802.11ac-VHT40 MCS0	Back 1	0mm	Ant 6+1(6)	DSI 6	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.17	0.353	0.528
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	0mm	Ant 6+1(6)	DSI 6	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.11	0.886	1.325
	WLAN5GHz	802.11ac-VHT40 MCS0	Front	0mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.01	0.137	0.205
	WLAN5GHz	802.11ac-VHT40 MCS0	Left Side	0mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.05	1.110	1.661
	WLAN5GHz	802.11ac-VHT40 MCS0	Right Side	0mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	0.13	0.925	1.384
	WLAN5GHz	802.11ac-VHT40 MCS0	Bottom Side	0mm	Ant 6+1(6)	DSI 4	Close	54	5270	16.75	18.50	1.496	100.00	1.000	-0.19	0.070	0.105
	WLAN5GHz	802.11ac-VHT80 MCS0	Back Top	0mm	Ant 6+1(1)	DSI 6	Close	138	5690	17.39	19.00	1.449	100.00	1.000	0.09	0.427	0.619
150	WLAN5GHz	802.11ac-VHT80 MCS0	Back Right	0mm	Ant 6+1(1)	DSI 6	Close	138	5690	17.39	19.00	1.449	100.00	1.000	0.13	0.509	0.738
	WLAN5GHz	802.11ac-VHT80 MCS0	Back 1	0mm	Ant 6+1(1)	DSI 6	Close	138	5690	17.39	19.00	1.449	100.00	1.000	-0.10	0.242	0.351
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 6	Close	138	5690	17.39	19.00	1.449	100.00	1.000	0.13	0.333	0.483
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6+1(1)	DSI 4	Close	138	5690	17.39	19.00	1.449	100.00	1.000	-0.16	0.038	0.055

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	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 6+1(1)	DSI 4	Close	138	5690	17.39	19.00	1.449	100.00	1.000	-0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+1(1)	DSI 4	Close	138	5690	17.39	19.00	1.449	100.00	1.000	-0.15	0.446	0.646
151	WLAN5GHz	802.11ac-VHT80 MCS0	Back Top	0mm	Ant 6+1(1)	DSI 6	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.16	1.630	2.411
	WLAN5GHz	802.11ac-VHT80 MCS0	Back Right	0mm	Ant 6+1(1)	DSI 6	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.11	1.130	1.671
	WLAN5GHz	802.11ac-VHT80 MCS0	Back 1	0mm	Ant 6+1(1)	DSI 6	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.03	0.712	1.053
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 6	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.05	1.270	1.878
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6+1(1)	DSI 4	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.19	0.185	0.274
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 6+1(1)	DSI 4	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.14	0.002	0.003
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+1(1)	DSI 4	Close	155	5775	17.30	19.00	1.479	100.00	1.000	0.02	0.729	1.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Ant 6+1(1)	DSI 4	Close	155	5775	17.30	19.00	1.479	100.00	1.000	-0.01	0.002	0.003

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	-0.02	0.026	0.039	0.465
	WLAN6GHz	802.11be-EHT320 MCS0	Back	0mm	Ant 6+1(6)	DSI 6	Close	31	6105	11.42	12.8	1.374	100	1.000	0.010	0.010	0.014	0.146
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	0mm	Ant 6+1(6)	DSI 6	Close	31	6105	11.42	12.8	1.374	100	1.000	0.09	0.116	0.159	2.490
	WLAN6GHz	802.11be-EHT320 MCS0	Back Right	0mm	Ant 6+1(6)	DSI 6	Close	31	6105	11.42	12.8	1.374	100	1.000	-0.05	0.079	0.109	1.190
	WLAN6GHz	802.11be-EHT320 MCS0	Back 1	0mm	Ant 6+1(6)	DSI 6	Close	31	6105	11.42	12.8	1.374	100	1.000	0.03	0.042	0.058	0.640
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	0mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.01	0.007	0.011	0.055
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	-0.07	0.046	0.07	0.832
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(6)	DSI 6	Close	31	6105	11.42	12.8	1.374	100	1.000	0.02	0.129	0.177	3.290
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(6)	DSI 6	Close	63	6265	11.24	12.8	1.432	100	1.000	0.01	0.119	0.17	3.010
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 6	Close	95	6425	10.94	12.8	1.535	100	1.000	0.08	0.116	0.178	2.950
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 6	Close	127	6585	11.09	12.8	1.483	100	1.000	0.01	0.132	0.196	2.990
152	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(1)	DSI 6	Close	159	6745	10.35	12.3	1.567	100	1.000	0.11	0.141	0.221	3.340
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	0mm	Ant 6+1(6)	DSI 6	Close	191	6905	10.95	12.8	1.531	100	1.000	-0.02	0.129	0.197	2.740
	WLAN6GHz	802.11ax-HE160 MCS0	Back	4mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	-0.04	0.008	0.012	0.140
	WLAN6GHz	802.11ax-HE160 MCS0	Back Top	4mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.04	0.108	0.164	2.710
	WLAN6GHz	802.11ax-HE160 MCS0	Back Right	4mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.01	0.078	0.118	1.290
	WLAN6GHz	802.11ax-HE160 MCS0	Back 1	4mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.06	0.042	0.064	0.715
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	7mm	Ant 6+1(6)	DSI 4	Close	207	6985	17.2	19	1.514	100	1.000	0.09	0.135	0.204	3.170

<NFC SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Configuration	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)
	NFC	ASK	Front	0mm	Close	13.56	0	0.001
153	NFC	ASK	Back	0mm	Close	13.56	-0.1	0.018
	NFC	ASK	Left Side	0mm	Close	13.56	0	0.001
	NFC	ASK	Right Side	0mm	Close	13.56	0	0.001
	NFC	ASK	Top Side	0mm	Close	13.56	0	0.001
	NFC	ASK	Bottom Side	0mm	Close	13.56	0	0.001

<Spot check>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	26340	1880	22.01	22.9	1.227	100	1.000	-0.17	2.150	2.638
154	LTE Band 43	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	43690	3610	20.64	22	1.368	62.9	1.006	-0.01	2.060	2.835
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	55340	3560	20.69	22	1.352	62.9	1.006	0.04	2.120	2.883

16.6 Spot check compare result

General Note: In accordance with KDB 484596 D01 v03, SAR spot check verification of the worst-case configurations with the highest SAR for Ant0/2 for each equipment class from the parent model (FCC ID: IHDT56AW3) was performed to demonstrate that the test data from the parent model remains representative of the variant model.

Head Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n41_HPUE	Right Cheek	0mm	0.210	0.315	0.131	0.197	0.500	0.500	Pass
Hotspot Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 66	Right Side	5mm	1.295	1.078	0.809	0.674	0.168	0.250	Pass
Body-Worn Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 66	Back	5mm	1.296	0.975	0.810	0.609	0.248	0.250	Pass
Extremity Close Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 25	Back	0mm	3.178	2.638	0.795	0.660	0.170	0.250	Pass
Extremity Open Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 26	Back	0mm	1.293	0.880	0.323	0.220	0.319	0.427	Pass

Head Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77_HPUE	Left Cheek	0mm	0.114	0.060	0.071	0.038	0.474	0.500	Pass
CBE	LTE Band 48	Right Cheek	0mm	0.092	0.046	0.058	0.029	0.500	0.500	Pass
Hotspot Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 41	Bottom Side	5mm	1.292	1.352	0.808	0.845	0.046	0.250	Pass
CBE	LTE Band 48	Bottom Side	5mm	1.288	1.260	0.805	0.788	0.022	0.250	Pass
Body-Worn Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 43	Back	5mm	1.300	1.072	0.813	0.670	0.175	0.250	Pass
CBE	LTE Band 48	Back	5mm	1.296	1.223	0.810	0.764	0.056	0.250	Pass
Extremity Close Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 43	Back	0mm	3.234	2.835	0.809	0.709	0.123	0.250	Pass
CBE	LTE Band 48	Back	0mm	3.210	2.883	0.803	0.721	0.102	0.250	Pass
Extremity Open Exposure Condition										
Equipment Class	Band	Position	Gap(mm)	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 42	Back	0mm	1.299	1.288	0.325	0.322	0.008	0.425	Pass
CBE	LTE Band 48	Back	0mm	1.295	1.279	0.324	0.320	0.012	0.426	Pass

Conclusion:

Per KDB 484596 D01v03, the spot check SAR results were compared with the worst-case results of the parent model. All wireless technologies met the condition $d_{TER} \leq d_{TERmax(M)}$. Therefore, based on the guidance, SAR data reuse is justified.

16.7 6GHz PD Test Result

WLAN PD

Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (± -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+1(1)	Close	31	6105	11.51	0.0625	9.95	-0.97	3.06	3.20
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	9.83mm	Ant 6+1(1)	Close	31	6105	11.51	0.25	12.45		3.13	3.15
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+1(6)	Close	191	6905	10.95	0.0625	5.54	-0.93	1.49	2.07
WLAN6GHz	802.11be-EHT320 MCS0	Top Side	8.69mm	Ant 6+1(6)	Close	191	6905	10.95	0.25	6.87		2.40	2.44

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 6+1(6)	Close	207	6985	17.20	19.00	1.514	100.00	1.000	0.0625	1.5535	0.15	1.28	3.01	1.45	3.41
	WLAN6GHz	802.11be-EHT320 MCS0	Back Top	5mm	Ant 6+1(6)	Close	159	6745	13.36	14.80	1.393	100.00	1.000	0.0625	1.5535	0.05	1.21	2.62	1.6	3.46
01	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+1(6)	Close	159	6745	10.76	12.30	1.426	100.00	1.000	0.0625	1.5535	-0.19	2.76	6.11	3.14	6.95
	WLAN6GHz	802.11be-EHT320 MCS0	Top Side	2mm	Ant 6+1(6)	Open	127	6585	9.93	11.00	1.279	100.00	1.000	0.0625	1.5535	-0.15	1.09	2.17	1.14	2.27

16.8 Repeated SAR Measurement

【Repeat SAR 1g - FCC】

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1st	WCDMA IV	RMC 12.2Kbps	Right Tilted	0.0	Ant 3	DSI 2	1513	1752.6	19.56	20.00	1.107			0.01	1.150	1.273	-
2nd	WCDMA IV	RMC 12.2Kbps	Right Tilted	0.0	Ant 3	DSI 2	1513	1752.6	19.56	20.00	1.107			0.10	1.120	1.239	1.03
1st	GSM1900	GPRS 3 Tx slots	Top Side	5.0	Ant 3	DSI 7	661	1880	22.81	23.40	1.145			0.08	1.140	1.306	-
2nd	GSM1900	GPRS 3 Tx slots	Top Side	5.0	Ant 3	DSI 7	661	1880	22.81	23.40	1.145			0.04	1.110	1.272	1.03
1st	LTE Band 7	20M_QPSK_1	Back Right	5.0	Ant 4	DSI 3	21100	2535	19.08	20.00	1.236			-0.17	1.030	1.273	-
2nd	LTE Band 7	20M_QPSK_1	Back Right	5.0	Ant 4	DSI 3	21100	2535	19.08	20.00	1.236			-0.04	1.010	1.248	1.02
1st	FR1 n77	100M_BPSK_1_1	Right Tilted	0.0	Ant 8	DSI 2	633332	3500	20.42	21.20	1.197			0.00	1.110	1.329	-
2nd	FR1 n77	100M_BPSK_1_1	Right Tilted	0.0	Ant 8	DSI 2	633332	3500	20.42	21.20	1.197			0.07	1.070	1.280	1.04
1st	5.3GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Right	5.0	Ant 6+1	DSI 3	50	5250	16.42	17.50	1.282			-0.11	0.825	1.058	-
2nd	5.3GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Right	5.0	Ant 6+1	DSI 3	50	5250	16.42	17.50	1.282			-0.08	0.820	1.051	1.01
1st	5.5GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Top	5.0	Ant 6+1	DSI 3	114	5570	16.79	18.00	1.321			-0.03	0.827	1.092	-
2nd	5.5GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Top	5.0	Ant 6+1	DSI 3	114	5570	16.79	18.00	1.321			-0.17	0.825	1.090	1.00
1st	GSM850	GPRS (4 Tx slots)	Right Side	0mm	Ant 1	DSI 4	189	836.4	24.21	25.60	1.377			0.03	0.893	1.230	-
2nd	GSM850	GPRS (4 Tx slots)	Right Side	0mm	Ant 1	DSI 4	189	836.4	24.21	25.60	1.377			-0.06	0.884	1.217	1.01

【Repeat SAR 10g - FCC】

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)	Ratio
1st	WCDMA IV	RMC 12.2Kbps	Top Side	0.0	Ant 3	DSI 12	1413	1732.6	13.89	15.10	1.321			-0.02	2.500	3.303	-
2nd	WCDMA IV	RMC 12.2Kbps	Top Side	0.0	Ant 3	DSI 12	1413	1732.6	13.89	15.10	1.321			-0.09	2.470	3.264	1.01
1st	FR1 n25	40M_BPSK_1_1	Back Top	0.0	Ant 3	DSI 6	376500	1882.5	22.29	23.40	1.291			-0.09	2.470	3.189	-
2nd	FR1 n25	40M_BPSK_1_1	Back Top	0.0	Ant 3	DSI 6	376500	1882.5	22.29	23.40	1.291			0.15	2.460	3.176	1.00
1st	Bluetooth	BR / EDR 1Mbps	Back Top	0.0	Ant 11	DSI 4	39	2441	17.54	18.50	1.246	76.66	1.087	0.13	2.400	3.251	-
2nd	Bluetooth	BR / EDR 1Mbps	Back Top	0.0	Ant 11	DSI 4	39	2441	17.54	18.50	1.246	76.66	1.087	0.08	2.340	3.168	1.03
1st	LTE Band 41	20M_QPSK_1	Back Right	0.0	Ant 4	DSI 12	41490	2680	15.02	16.10	1.282	62.90	1.006	-0.01	2.500	3.224	-
2nd	LTE Band 41	20M_QPSK_1	Back Right	0.0	Ant 4	DSI 12	41490	2680	15.02	16.10	1.282	62.90	1.006	-0.06	2.480	3.200	1.01
1st	LTE Band 48	20M_QPSK_1	Back Top	0.0	Ant 8	DSI 6	55830	3609	21.93	22.90	1.250	62.90	1.006	-0.12	2.570	3.232	-
2nd	LTE Band 48	20M_QPSK_1	Back Top	0.0	Ant 8	DSI 6	55830	3609	21.93	22.90	1.250	62.90	1.006	0.12	2.530	3.184	1.02
1st	5.3GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Top	0.0	Ant 6+1	DSI 12	50	5250	7.82	9.50	1.472			0.09	2.300	3.386	-
2nd	5.3GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Top	0.0	Ant 6+1	DSI 12	50	5250	7.82	9.50	1.472			0.04	2.240	3.298	1.03
1st	5.5GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Top	0.0	Ant 6+1	DSI 12	114	5570	8.55	10.00	1.396			0.06	2.000	2.792	-
2nd	5.5GHz WLAN	160M_802.11ac-VHT160 MCS0	Back Top	0.0	Ant 6+1	DSI 12	114	5570	8.55	10.00	1.396			-0.03	1.980	2.765	1.01
1st	5.8GHz WLAN	80M_802.11ac-VHT80 MCS0	Back Top	0.0	Ant 6+1	DSI 12	155	5775	9.27	11.00	1.489			0.07	2.100	3.127	-
2nd	5.8GHz WLAN	80M_802.11ac-VHT80 MCS0	Back Top	0.0	Ant 6+1	DSI 12	155	5775	9.27	11.00	1.489			0.13	2.050	3.053	1.02

General Note:

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

**16.9 Power Class 2 and Power Class 3 Linearity****General Note:**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41 and FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 43.3% for LTE and 50% for 5GNR using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

<Head>		
LTE Band 41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.6	20.2
Reported 1g SAR (W/kg)	0.999	0.892
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	45.86	45.34
Linearity SAR (W/kg)	0.99	
% deviation from Expected Linearity		-9.69%
LTE Band 41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.0	26.0
Reported 1g SAR (W/kg)	0.503	0.620
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.69	
% deviation from Expected Linearity		-9.69%
<Body worn>		
LTE Band 41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.3	21.9
Reported 1g SAR (W/kg)	1.181	1.082
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	67.83	67.06
Linearity SAR (W/kg)	1.17	
% deviation from Expected Linearity		-7.33%
LTE Band 41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.5	23.1
Reported 1g SAR (W/kg)	1.294	1.217
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	89.41	88.41
Linearity SAR (W/kg)	1.28	
% deviation from Expected Linearity		-4.89%
<Hotspot>		
LTE Band 41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.6	20.2
Reported 1g SAR (W/kg)	0.857	0.800
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	45.86	45.34
Linearity SAR (W/kg)	0.85	
% deviation from Expected Linearity		-5.58%
LTE Band 41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.5	23.1
Reported 1g SAR (W/kg)	1.194	1.134
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	89.41	88.41
Linearity SAR (W/kg)	1.18	
% deviation from Expected Linearity		-3.95%
<Extremity> Close		



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LTE Band 41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.7	25.3
Reported 10g SAR (W/kg)	3.188	2.945
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	148.39	146.72
Linearity SAR (W/kg)	3.15	
% deviation from Expected Linearity		-6.57%
LTE Band 41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.0	25.4
Reported 10g SAR (W/kg)	2.668	2.917
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	126.30	150.14
Linearity SAR (W/kg)	3.17	
% deviation from Expected Linearity		-8.03%
<Extremity> Open		
LTE Band 41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.3	16.9
Reported 10g SAR (W/kg)	1.300	1.196
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	21.45	21.21
Linearity SAR (W/kg)	1.29	
% deviation from Expected Linearity		-6.96%
LTE Band 41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.1	17.7
Reported 10g SAR (W/kg)	1.310	1.195
Duty Cycle (%)	63.30%	43.30%
Frame Averaged (mW)	25.79	25.50
Linearity SAR (W/kg)	1.30	
% deviation from Expected Linearity		-7.74%

<Head>		
FR1 n41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.4	19.4
Reported 1g SAR (W/kg)	1.024	0.999
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	43.65	43.55
Linearity SAR (W/kg)	1.02	
% deviation from Expected Linearity		-2.22%
FR1 n41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.0	26.0
Reported 1g SAR (W/kg)	0.362	0.353
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.36	
% deviation from Expected Linearity		-2.25%
FR1 n77 (27O)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.276	0.266
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.28	
% deviation from Expected Linearity		-3.39%
FR1 n77 (27O)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.588	0.597



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Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.59	
% deviation from Expected Linearity		1.77%
FR1 n77 (27O)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.2	24.2
Reported 1g SAR (W/kg)	1.121	1.088
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	131.83	131.51
Linearity SAR (W/kg)	1.12	
% deviation from Expected Linearity		-2.71%
FR1 n77 (27Q)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.136	0.130
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.14	
% deviation from Expected Linearity		-4.18%
FR1 n77 (27Q)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.686	0.668
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.68	
% deviation from Expected Linearity		-2.39%
FR1 n77 (27Q)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.2	24.2
Reported 1g SAR (W/kg)	1.329	1.257
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	131.83	131.51
Linearity SAR (W/kg)	1.33	
% deviation from Expected Linearity		-5.19%
<Body worn>		
FR1 n41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.2	21.2
Reported 1g SAR (W/kg)	1.380	1.363
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	66.07	65.91
Linearity SAR (W/kg)	1.38	
% deviation from Expected Linearity		-0.99%
FR1 n41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.6	24.6
Reported 1g SAR (W/kg)	1.145	1.115
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	144.54	144.20
Linearity SAR (W/kg)	1.14	
% deviation from Expected Linearity		-2.39%
FR1 n77 (27O)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	22.9
Reported 1g SAR (W/kg)	1.080	1.067
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	1.08	
% deviation from Expected Linearity		-0.97%
FR1 n77 (27O)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.4	25.4



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Reported 1g SAR (W/kg)	0.697	0.690
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR (W/kg)	0.70	
% deviation from Expected Linearity		-0.77%
FR1 n77 (27O)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.9	21.9
Reported 1g SAR (W/kg)	0.997	0.963
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	77.62	77.44
Linearity SAR (W/kg)	0.99	
% deviation from Expected Linearity		-3.19%
FR1 n77 (27Q)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	22.9
Reported 1g SAR (W/kg)	1.000	0.994
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	1.00	
% deviation from Expected Linearity		-0.37%
FR1 n77 (27Q)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.4	25.4
Reported 1g SAR (W/kg)	1.226	1.214
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR (W/kg)	1.22	
% deviation from Expected Linearity		-0.74%
FR1 n77 (27Q)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.9	21.9
Reported 1g SAR (W/kg)	1.261	1.256
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	77.62	77.44
Linearity SAR (W/kg)	1.26	
% deviation from Expected Linearity		-0.16%
<Hotspot>		
FR1 n41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	16.4	19.4
Reported 1g SAR (W/kg)	1.202	1.099
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	43.65	43.55
Linearity SAR (W/kg)	1.20	
% deviation from Expected Linearity		-8.36%
FR1 n41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.2	24.2
Reported 1g SAR (W/kg)	1.274	1.217
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	131.83	131.51
Linearity SAR (W/kg)	1.27	
% deviation from Expected Linearity		-4.24%
FR1 n77 (27O)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	22.9
Reported 1g SAR (W/kg)	1.080	1.025
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	1.08	
% deviation from Expected Linearity		-4.87%
FR1 n77 (27O)_Ant 6 (FCC)	Power Class 3	Power Class 2



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Max Tune Up Power (dBm)	22.4	25.4
Reported 1g SAR (W/kg)	1.233	1.200
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR (W/kg)	1.23	
% deviation from Expected Linearity		-2.45%
FR1 n77 (27O)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.4	21.4
Reported 1g SAR (W/kg)	0.878	0.820
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	69.18	69.02
Linearity SAR (W/kg)	0.88	
% deviation from Expected Linearity		-6.39%
FR1 n77 (27Q)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	22.9
Reported 1g SAR (W/kg)	1.000	0.942
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	1.00	
% deviation from Expected Linearity		-5.58%
FR1 n77 (27Q)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.4	25.4
Reported 1g SAR (W/kg)	1.226	1.157
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR (W/kg)	1.22	
% deviation from Expected Linearity		-5.40%
FR1 n77 (27Q)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.4	21.4
Reported 1g SAR (W/kg)	1.232	1.193
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	69.18	69.02
Linearity SAR (W/kg)	1.23	
% deviation from Expected Linearity		-2.94%
<Extremity> Close		
FR1 n41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.0	24.0
Reported 10g SAR (W/kg)	2.460	2.336
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	2.45	
% deviation from Expected Linearity		-4.81%
FR1 n41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.7	24.7
Reported 10g SAR (W/kg)	2.937	2.664
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR (W/kg)	2.93	
% deviation from Expected Linearity		-9.08%
FR1 n77 (27O)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	2.567	2.519
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.56	
% deviation from Expected Linearity		-1.63%



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FR1 n77 (27O)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	2.358	2.317
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.35	
% deviation from Expected Linearity		-1.50%
FR1 n77 (27O)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	22.9
Reported 10g SAR (W/kg)	1.780	1.656
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	1.78	
% deviation from Expected Linearity		-6.75%
FR1 n77 (27Q)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	1.977	1.844
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	1.97	
% deviation from Expected Linearity		-6.50%
FR1 n77 (27Q)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	1.159	1.116
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	1.16	
% deviation from Expected Linearity		-3.48%
FR1 n77 (27Q)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.9	22.9
Reported 10g SAR (W/kg)	3.083	2.875
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	97.72	97.49
Linearity SAR (W/kg)	3.08	
% deviation from Expected Linearity		-6.53%
<Extremity> Open		
FR1 n41_Ant 3 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	13.5	16.5
Reported 10g SAR (W/kg)	1.289	1.253
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	22.39	22.33
Linearity SAR (W/kg)	1.29	
% deviation from Expected Linearity		-2.53%
FR1 n41_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.0	18.0
Reported 10g SAR (W/kg)	1.242	1.126
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	1.24	
% deviation from Expected Linearity		-9.14%
FR1 n77 (27O)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	14.3	17.3
Reported 10g SAR (W/kg)	1.152	1.129
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	26.92	26.85
Linearity SAR (W/kg)	1.15	

% deviation from Expected Linearity		-1.74%
FR1 n77 (27O)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.0	18.0
Reported 10g SAR (W/kg)	0.861	0.811
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.86	
% deviation from Expected Linearity		-5.60%
FR1 n77 (27O)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	11.2	14.2
Reported 10g SAR (W/kg)	1.159	1.050
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	13.18	13.15
Linearity SAR (W/kg)	1.16	
% deviation from Expected Linearity		-9.20%
FR1 n77 (27Q)_Ant 4 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	14.3	17.3
Reported 10g SAR (W/kg)	1.080	0.997
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	26.92	26.85
Linearity SAR (W/kg)	1.08	
% deviation from Expected Linearity		-7.44%
FR1 n77 (27Q)_Ant 6 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.0	18.0
Reported 10g SAR (W/kg)	1.262	1.175
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	1.26	
% deviation from Expected Linearity		-6.69%
FR1 n77 (27Q)_Ant 8 (FCC)	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	11.2	14.2
Reported 10g SAR (W/kg)	1.264	1.142
Duty Cycle (%)	100.00%	50.00%
Frame Averaged (mW)	13.18	13.15
Linearity SAR (W/kg)	1.26	
% deviation from Expected Linearity		-9.45%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
2.	WWAN + 5GHz WLAN	Yes	Yes	Yes	Yes
3.	WWAN + 6GHz WLAN	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	6GHz WLAN + Bluetooth	Yes	Yes		Yes
7.	5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
8.	6GHz WLAN + 2.4GHz WLAN	Yes	Yes		Yes
9.	WWAN + 5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
10.	WWAN + 6GHz WLAN + Bluetooth	Yes	Yes		Yes
11.	WWAN +5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
12.	WWAN +6GHz WLAN + 2.4GHz WLAN	Yes	Yes		Yes
13.	WWAN + 2.4GHz WLAN+NFC				Yes
14.	WWAN + 5GHz WLAN+NFC				Yes
15.	WWAN + 6GHz WLAN+NFC				Yes
16.	WWAN + Bluetooth + NFC				Yes
17.	5GHz WLAN + Bluetooth + NFC				Yes
18.	6GHz WLAN + Bluetooth + NFC				Yes
19.	5GHz WLAN + 2.4GHz WLAN + NFC				Yes
20.	6GHz WLAN + 2.4GHz WLAN + NFC				Yes
21.	WWAN +5GHz WLAN + Bluetooth + NFC				Yes
22.	WWAN +6GHz WLAN + Bluetooth + NFC				Yes
23.	WWAN +5GHz WLAN + 2.4GHz WLAN+NFC				Yes
24.	WWAN +6GHz WLAN + 2.4GHz WLAN+NFC				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.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.
- This device WLAN 2.4GHz 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, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz cannot transmit simultaneously.
- 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.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- The equipment under test (EUT) contains the Qualcomm modems supporting 2G/3G/4G/5G technologies and WLAN/BT technologies. these modems are always enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure follows the FCC requirement. Smart Transmit algorithm controls the total RF exposure from all WWAN/WLAN/BT to not exceed FCC limit and each antenna group has controlled the total RF exposure from all transmitter to not exceed FCC limit. Therefore, in



Part.1 report, it is evaluated whether the sum of the groups of each antenna does not exceed FCC limit or spatial separation is applied. In addition, each antenna needs to satisfy simultaneous transmission analysis with External radios (NFC) in this report at extremity exposure condition.

16. The maximum SAR summation is calculated based on the same configuration and test position.
17. 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.
 - v) The SPLSR calculated results please refer to section 17.9.
 - vi) The SPLSR hotspot combination procedure (Hybrid SPLSR) allows for the aggregate SAR distribution of a collocated antenna pair—either obtained from a small enlarged zoom scan or through the algebraic summation of SAR values. This approach may also be considered for simultaneous transmission analysis. A small enlarged zoom scan was performed in section 17.11 for those with SPLSR exceeding 0.04 for 1g SAR or 0.10 for 10-g SAR, and that SAR was used for Simultaneous transmission analysis.
18. The simultaneous transmission analysis was conducted in the following two steps:
Step 1: If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneous transmission SAR measurement is not required. If SPLSR > 0.04 for 1g SAR and SPLSR > 0.10 for 10g SAR, proceed to Step 2.
Step 2: If SPLSR > 0.04 for 1g SAR and SPLSR > 0.10 for 10g SAR, select the worst-case band of AG0 and AG1 corresponding to the SPLSR condition to perform a small enlarged zoom scan and to ensure that the 1g scalar SAR summation is less than 1.6 W/kg and the 10g scalar SAR summation is less than 4.0 W/kg.
19. Since the WPT will only operate on body condition, therefore, WPT transmit with WWAN/WLAN/BT only consider at hotspot / body-worn/extremity conditions, the further Sim-Tx analysis include in section 17.8.
20. The simultaneous transmission analysis, considering UWB power is very smaller and no risk, the contribution of UWB to the total TER can be neglected.

17.1 Qualcomm Smart Transmit Simultaneous Transmission Guidance

Based on Qualcomm Smart Transmit simultaneous transmission analysis guidance, If all radios are selected to be under Smart Transmit control in EFS version 19 (or higher), then RF exposure from radios are managed by Smart Transmit in the same way. No additional TER analysis is needed

Smart Transmit current implementation assumes hotspots from all active radios are collocated. Therefore, for a total of 100% exposure margin, if primary radio uses x%, then the exposure margin left for secondary radio(s) is capped to (100-x)%. Thus, the compliance equation for simultaneous active radios, such as follow,

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

where, A is normalized time-averaged SAR exposure corresponding to “maximum of {minimum [EFS Plimit + device uncertainty; NV setting Pmax + device uncertainty]; EFS Plimit}” from primary radio, and A ≤ 1.0; B for secondary radio(s) is

(for legacy radio or sub6 NR): normalized time-averaged SAR exposure corresponding to
“maximum of {minimum [EFS Plimit + device uncertainty; NV setting Pmax + device uncertainty]; EFS Plimit }”

and B ≤ 1.0. As can be seen, A and B by definition is the exposure corresponding to “maximum of {minimum [EFS Plimit + device uncertainty; NV setting Pmax + device uncertainty]; EFS Plimit}”, and it is NOT defined as reported exposure

The total RF exposure in this simultaneous transmission scenario is controlled and managed within Smart Transmit operation, and the compliance is demonstrated in Part 2 test.

17.2 Sub6 Antenna Groups

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

- 1) Case 1: Demonstrate that Sum of maximum reported SAR from each of the sub6 AGs and the reported normalized SAR values from radios outside Smart Transmit should be less than regulatory limits for each supported DSI. This condition must be demonstrated for all antenna combinations of sub6 AGs.
 - i. For a given DSI, obtain the highest *reported* SAR for each antenna out of all supported technologies and frequency bands. Obtain the maximum *reported* SAR for each AG by taking the maximum out of *reported* SAR for all antennas belonging to each AG.
 - ii. Demonstrate that the sum of maximum reported SAR (normalized to regulatory limit) from each of the sub6 AGs and the sum of reported SAR (normalized to regulatory limit) from all supported radios outside of Smart Transmit should be less than 1.0
- 2) Case 2: If the Case 1 is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR criteria (Section 4.3.2 (c) in FCC KDB 447498 D01 v06) for each exposure position under each supported DSI. For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.
- 3) Case 3: When One or more antenna(s) can be placed as shared antenna(s) among multiple AGs as described in this Section. Repeat the same procedure to check if the new antenna grouping scheme (using shared antenna) with all supported external radios meets Case 1 or Case 2 so that each AG in the new antenna grouping scheme can operate independently.
 - a) For antenna grouping, only Case 1 or Case 2 (not both) needs to be met for each exposure position of all supported DSIs under a given exposure category. To further clarify, only one of the two conditions (either Case 1 or Case 2) should be used for a given exposure position to demonstrate RF exposure is mutually exclusive among all antenna groups (including external radios). In other words, a combination of Case 1 and Case 2 CANNOT be used for a given exposure position, i.e., mutual exclusivity between AGs CANNOT be demonstrated by using Case 1 for some antenna combinations and using Case 2 for remaining antenna combinations.
 - b) New antenna grouping analysis with one or more antenna(s) as a shared antenna (sAnt). AG0, AG1 and WLAN must be demonstrated to transmit independently with a shared antenna (sAnt) configured in AG0/AG1. The TER for simultaneous analysis for sub6 radios should be given by the sum of these RF exposures meets (i) and (ii) :
 - i. $\{ [\text{max.SAR.without.sAnt.AG0} + \text{max.SAR.without.sAnt.AG1}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g).
 - ii. $\{ [\text{max.SAR.sAnt}] + \text{WIFI/BT worst-case reported SAR} \} \leq 1.6$ (for 1g, or 4.0 for 10g).
 - c) For a given exposure position under a given DSI, prove all AG pairs, all ER pairs and all (AG, ER) pairs (if there are external radios outside Smart Transmit) in the configuration meet SPLSR.

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

Antenna Group 0 (AG0)	ANT1 & ANT4 & ANT3 & ANT6 & ANT7 & ANT8 & ANT11 & mmW Antenna
Antenna Group 1 (AG1)	ANT0 & ANT2 & ANT1 & mmW Antenna

Note: ANT1 and mmW Antenna serve as shared antennas (sAnt) between between AG0 and AG1.

The conditions are verified through the following criterias:

- i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.
 1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported* SAR at *Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: $\{ [\text{max.SAR.AG0} + \text{max.SAR.AG1}] + \text{each external radio worst-case reported SAR (ex: NFC)} \} \leq 1.6$ (for 1g, or 4.0 for 10g). (each external radio worst-case reported SAR is the worst SAR in all combinations of each external radio simultaneous transmission).
- ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets

SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:

- a. SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.
- b. Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.
- c. Use the 'closest' peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by 'closest', select the peak location out of all antennas ($\in$ AGj) that is closest to the peak location of other AG where SPLSR is evaluated.

iii) (combination of SPLSR SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6g antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: {max.SAR.AG0 + worst-case reported SAR} $\leq$ 1.6 and {max.SAR.AG1+ worst-case reported SAR } $\leq$ 1.6 for compliance demonstration (for 1g, or 4.0 for 10g).

iv) For simultaneous transmission analysis, a small enlarged zoom scan SAR (performed in Section 17.11) was used for cases where the SPLSR exceeded 0.04 for 1-g SAR.

For summed SAR results and SPLSR detailed analysis please refer to section 17.3 / 17.4 / 17.5 / 17.6 / 17.7 / 17.8/17.9 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.3 Head Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

AG0 maximum reported SAR:

Test Position	Ant3	Ant4	Ant6	Ant8	Ant7	Ant11	Ant7+11	Ant6+1	MAX
Right Cheek	1.000	0.432	0.685	1.088	0.220	0.071	0.709	0.349	1.088
Right Tilted	1.273	0.434	0.639	1.329	0.217	0.069	0.934	0.425	1.329
Left Cheek	1.054	1.032	0.572	0.889	0.249	0.064	0.666	0.481	1.054
Left Tilted	1.291	0.702	0.686	0.943	0.233	0.002	0.788	0.485	1.291

AG1 maximum reported SAR:

Test Position	Ant0	Ant2	MAX
Right Cheek	0.210	0.106	0.210
Right Tilted	0.110	0.081	0.110
Left Cheek	0.162	0.114	0.162
Left Tilted	0.159	0.075	0.159

Simultaneous Transmission analysis of AG0 + AG1 Worse-case:

Test Position	AG0	AG1	AG0+AG1 worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	1.088	0.210	1.30
Right Tilted	1.329	0.110	1.44
Left Cheek	1.054	0.162	1.22
Left Tilted	1.291	0.159	1.45

17.4 Hotspot Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.
Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
AG0 maximum reported SAR:

Test Position	Ant3	Ant4	Ant6	Ant8	Ant7	Ant11	Ant7+11	Ant6+1	MAX
Front	0.388	0.387	0.388	0.243	0.146		0.165	0.114	0.388
Back	1.324	1.274	1.226	1.123	0.247	0.067	0.858	1.002	1.324
Left Side	0.075			0.254			0.058		0.254
Right Side		1.268	0.213				0.298	0.295	1.268
Top Side	1.444	0.311	1.233	1.235	0.175	0.210	0.788	0.843	1.444
Bottom Side									

AG1 maximum reported SAR:

Test Position	Ant0	Ant2	MAX
Front	1.204	0.343	1.204
Back	1.277	1.295	1.295
Left Side		0.211	0.211
Right Side	1.295		1.295
Top Side			
Bottom Side	1.271	1.306	1.306

Simultaneous Transmission analysis of AG0 + AG1 Worse-case:

Test Position	AG0	AG1	AG0+AG1 worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.388	1.204	1.59
Back	1.324	1.295	2.62
Left Side	0.254	0.211	0.47
Right Side	1.268	1.295	2.56
Top Side	1.444		1.44
Bottom Side		1.306	1.31

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

Back				
Ant combination	AG1	AG0	AG0+AG1 worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	1.277	1.324	2.60	1
Ant0-Ant4	1.277	1.274	2.55	2
Ant0-Ant6	1.277	1.226	2.50	3
Ant0-Ant8	1.277	1.123	2.40	4
Ant0-Ant7	1.277	0.247	1.52	
Ant0-Ant11	1.277	0.067	1.34	
Ant0-Ant7+11	1.277	0.858	2.14	5
Ant0-Ant6+1	1.277	1.002	2.28	6
Ant2-Ant3	1.295	1.324	2.62	7
Ant2-Ant4	1.295	1.274	2.57	8
Ant2-Ant6	1.295	1.226	2.52	9
Ant2-Ant8	1.295	1.123	2.42	10

Ant2-Ant7	1.295	0.247	1.54	
Ant2-Ant11	1.295	0.067	1.36	
Ant2-Ant7+11	1.295	0.858	2.15	11
Ant2-Ant6+1	1.295	1.002	2.30	12

Right Side				
Ant combination	AG1	AG0	AG0+AG1 worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	1.295		1.30	
Ant0-Ant4	1.295	1.268	2.56	13
Ant0-Ant6	1.295	0.213	1.51	
Ant0-Ant8	1.295		1.30	
Ant0-Ant7	1.295		1.30	
Ant0-Ant11	1.295		1.30	
Ant0-Ant7+11	1.295	0.298	1.59	
Ant0-Ant6+1	1.295	0.295	1.59	
Ant2-Ant3				
Ant2-Ant4		1.268	1.27	
Ant2-Ant6		0.213	0.21	
Ant2-Ant8				
Ant2-Ant7				
Ant2-Ant11				
Ant2-Ant7+11				
Ant2-Ant6+1				

17.5 Body-Worn Accessory Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

AG0 maximum reported SAR:

Test Position	Ant3	Ant4	Ant6	Ant8	Ant7	Ant11	Ant7+11	Ant6+1	MAX
Front	0.435	0.319	0.388	0.437	0.146	0.002	0.158	0.121	0.437
Back	1.380	1.294	1.226	1.315	0.247	0.063	0.820	1.092	1.380

AG1 maximum reported SAR:

Test Position	Ant0	Ant2	MAX
Front	1.155	0.347	1.155
Back	1.296	1.300	1.300

Simultaneous Transmission analysis of AG0 + AG1 Worse-case:

Test Position	AG0	AG1	AG0+AG1 worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.437	1.155	1.59
Back	1.380	1.300	2.68

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

Back				
Ant combination	AG1	AG0	AG0+AG1 worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	1.296	1.380	2.68	14
Ant0-Ant4	1.296	1.294	2.59	15
Ant0-Ant6	1.296	1.226	2.52	16
Ant0-Ant8	1.296	1.315	2.61	17
Ant0-Ant7	1.296	0.247	1.54	
Ant0-Ant11	1.296	0.063	1.36	
Ant0-Ant7+11	1.296	0.820	2.12	18
Ant0-Ant6+1	1.296	1.092	2.39	19
Ant2-Ant3	1.300	1.380	2.68	20
Ant2-Ant4	1.300	1.294	2.59	21
Ant2-Ant6	1.300	1.226	2.53	22
Ant2-Ant8	1.300	1.315	2.62	23
Ant2-Ant7	1.300	0.247	1.55	
Ant2-Ant11	1.300	0.063	1.36	
Ant2-Ant7+11	1.300	0.820	2.12	24
Ant2-Ant6+1	1.300	1.092	2.39	25

Sensor off

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

AG0 maximum reported SAR:

Test Position	Ant3	Ant4	Ant6	Ant8	Ant7	Ant11	Ant7+11	Ant6+1	MAX
Front	0.891	0.318	0.240	0.507			0.089	0.108	0.891
Back	1.267	0.703	0.353	1.235			0.183	0.552	1.267

AG1 maximum reported SAR:

Test Position	Ant0	Ant2	MAX
Front	0.501	0.687	0.687
Back	0.564	0.767	0.767

Simultaneous Transmission analysis of AG0 + AG1 Worse-case:

Test Position	AG0	AG1	AG0+AG1 worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.891	0.687	1.58
Back	1.267	0.767	2.03

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

Back				
Ant combination	AG1	AG0	AG0+AG1 worse case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	0.564	1.267	1.83	39
Ant0-Ant4	0.564	0.703	1.27	
Ant0-Ant6	0.564	0.353	0.92	
Ant0-Ant8	0.564	1.235	1.80	40
Ant0-Ant7+11	0.564	0.183	0.75	
Ant0-Ant6+1	0.564	0.552	1.12	
Ant2-Ant3	0.767	1.267	2.03	41
Ant2-Ant4	0.767	0.703	1.47	
Ant2-Ant6	0.767	0.353	1.12	
Ant2-Ant8	0.767	1.235	2.00	42
Ant2-Ant7+11	0.767	0.183	0.95	
Ant2-Ant6+1	0.767	0.552	1.32	

17.6 Body Exposure Conditions

<Flip Open>

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

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

AG0 maximum reported SAR:

Test Position	Ant3	Ant4	Ant6	Ant7	Ant8	Ant11	Ant6+1	Ant7+11	MAX
Back MAX	1.310	1.286	1.340	1.178	1.264	1.276	0.989	1.342	1.342
Left Side									
Right Side		1.286	0.153	0.563		0.001	0.776	0.728	1.286
Top Side	1.311	0.312	1.375	1.174	1.297	0.708	0.538	0.889	1.375
Bottom Side									

AG1 maximum reported SAR:

Test Position	Ant0	Ant2	MAX
Back MAX	1.294	1.299	1.299
Left Side			
Right Side	1.286	0.183	1.286
Top Side			
Bottom Side	1.285	1.290	1.290

Simultaneous Transmission analysis of AG0 + AG1+NFC:

Test Position	AG0	AG1	NFC	AG0+AG1 worse case+NFC
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Back MAX	1.342	1.299	0.033	2.67
Left Side				0.00
Right Side	1.286	1.286		2.57
Top Side	1.375			1.38
Bottom Side		1.290		1.29

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

Right Side					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	1.286			1.29	
Ant0-Ant4	1.286	1.286		2.57	Case 1
Ant0-Ant6	1.286	0.153		1.44	
Ant0-Ant7	1.286	0.563		1.85	Case 2
Ant0-Ant8	1.286			1.29	
Ant0-Ant11	1.286	0.001		1.29	
Ant0-Ant6+1	1.286	0.776		2.06	Case 3
Ant0-Ant7+11	1.286	0.728		2.01	Case 4
Ant2-Ant3	0.183			0.18	
Ant2-Ant4	0.183	1.286		1.47	
Ant2-Ant6	0.183	0.153		0.34	
Ant2-Ant7	0.183	0.563		0.75	
Ant2-Ant8	0.183			0.18	
Ant2-Ant11	0.183	0.001		0.18	
Ant2-Ant6+1	0.183	0.776		0.96	

Ant2-Ant7+11	0.183	0.728		0.91	
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Back					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	1.294	1.310	0.033	2.64	Case 5
Ant0-Ant4	1.294	1.286	0.033	2.61	Case 6
Ant0-Ant6	1.294	1.340	0.033	2.67	Case 7
Ant0-Ant7	1.294	1.178	0.033	2.51	Case 8
Ant0-Ant8	1.294	1.264	0.033	2.59	Case 9
Ant0-Ant11	1.294	1.276	0.033	2.60	Case 10
Ant0-Ant6+1	1.294	0.989	0.033	2.32	Case 11
Ant0-Ant7+11	1.294	1.342	0.033	2.67	Case 12
Ant2-Ant3	1.299	1.310	0.033	2.64	Case 13
Ant2-Ant4	1.299	1.286	0.033	2.62	Case 14
Ant2-Ant6	1.299	1.340	0.033	2.67	Case 15
Ant2-Ant7	1.299	1.178	0.033	2.51	Case 16
Ant2-Ant8	1.299	1.264	0.033	2.60	Case 17
Ant2-Ant11	1.299	1.276	0.033	2.61	Case 18
Ant2-Ant6+1	1.299	0.989	0.033	2.32	Case 19
Ant2-Ant7+11	1.299	1.342	0.033	2.67	Case 20

17.7 Product Specific Exposure Conditions

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

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

AG0 maximum reported SAR:

Test Position	Ant3	Ant4	Ant6	Ant8	Ant7	Ant11	Ant7+11	Ant6+1	MAX
Front	1.889							0.274	1.889
Back	3.189	2.812	2.358	3.232			1.978	2.411	3.232
Left Side	0.126							1.661	1.661
Right Side	0.207	2.917						1.384	2.917
Top Side	3.281	0.591	2.838	3.220			1.258	1.878	3.281
Bottom Side	0.001							0.105	0.105

AG1 maximum reported SAR:

Test Position	Ant0	Ant2	MAX
Front	0.997		0.997
Back	3.178	3.234	3.234
Left Side			
Right Side	2.161		2.161
Top Side			
Bottom Side	2.342	3.184	3.184

Simultaneous Transmission analysis of AG0 + AG1 Worse-case:

Test Position	AG0	AG1	NFC	AG0+AG1 worse case+NFC
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Front	1.889	0.997		2.89
Back	3.232	3.234	0.012	6.48
Left Side	1.661			1.66
Right Side	2.917	2.161		5.08
Top Side	3.281			3.28
Bottom Side	0.105	3.184		3.29

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

Back					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant3	3.178	3.189	0.012	6.38	26
Ant0-Ant4	3.178	2.812	0.012	6.00	27
Ant0-Ant6	3.178	2.358	0.012	5.55	28
Ant0-Ant8	3.178	3.232	0.012	6.42	29
Ant0-Ant7	3.178		0.012	3.19	
Ant0-Ant11	3.178		0.012	3.19	
Ant0-Ant7+11	3.178	1.978	0.012	5.17	30
Ant0-Ant6+1	3.178	2.411	0.012	5.60	31
Ant2-Ant3	3.234	3.189	0.012	6.44	32
Ant2-Ant4	3.234	2.812	0.012	6.06	33
Ant2-Ant6	3.234	2.358	0.012	5.60	34

Ant2-Ant8	3.234	3.232	0.012	6.48	35
Ant2-Ant7	3.234		0.012	3.25	
Ant2-Ant11	3.234		0.012	3.25	
Ant2-Ant7+11	3.234	1.978	0.012	5.22	36
Ant2-Ant6+1	3.234	2.411	0.012	5.66	37

Right Side					
Ant combination	AG1	AG0	NFC	AG0+AG1 worst case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant3	2.161	0.207		2.37	
Ant0-Ant4	2.161	2.917		5.08	38
Ant0-Ant6	2.161			2.16	
Ant0-Ant8	2.161			2.16	
Ant0-Ant7	2.161			2.16	
Ant0-Ant11	2.161			2.16	
Ant0-Ant7+11	2.161			2.16	
Ant0-Ant6+1	2.161	1.384		3.55	
Ant2-Ant3		0.207		0.21	
Ant2-Ant4		2.917		2.92	
Ant2-Ant6					
Ant2-Ant8					
Ant2-Ant7					
Ant2-Ant11					
Ant2-Ant7+11					
Ant2-Ant6+1		1.384		1.38	

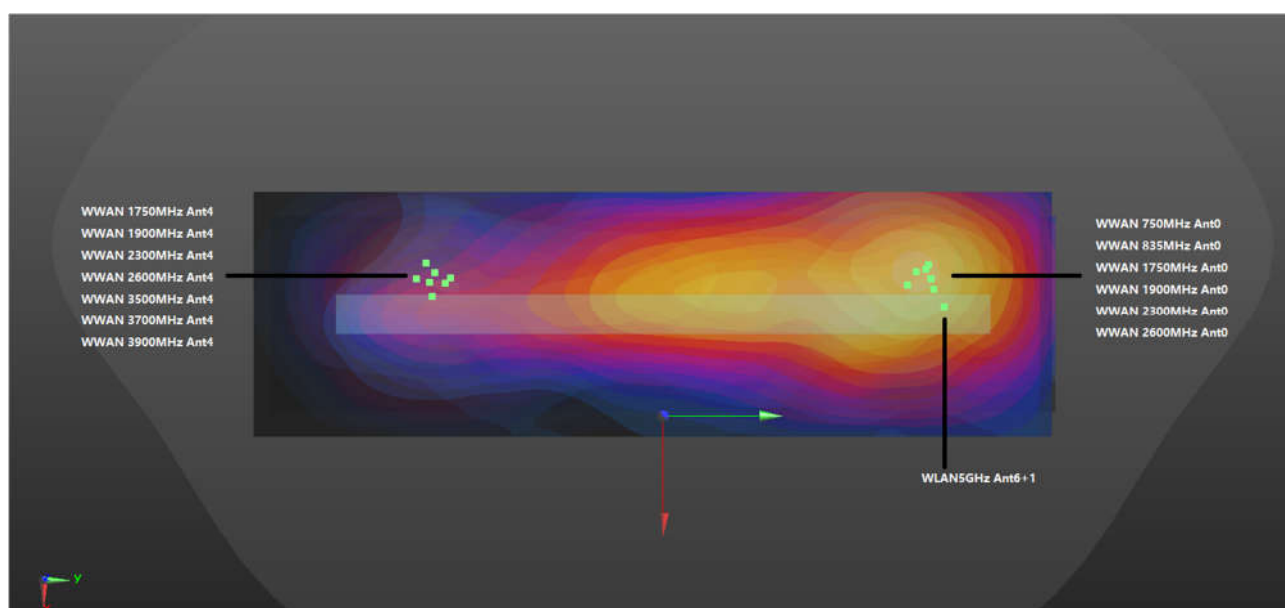
17.8 Total Exposure Ratio

Max 1g SAR	WPT 1g SAR	TER
W/Kg	W/Kg	Reported SAR/1.6+WPT SAR/1.6 Summation
1.59	0.0000298	1.00
Max 10g SAR	WPT 10g SAR	TER
W/Kg	W/Kg	Reported SAR/4.0+WPT SAR/4.0 Summation
3.55	0.0000168	0.89

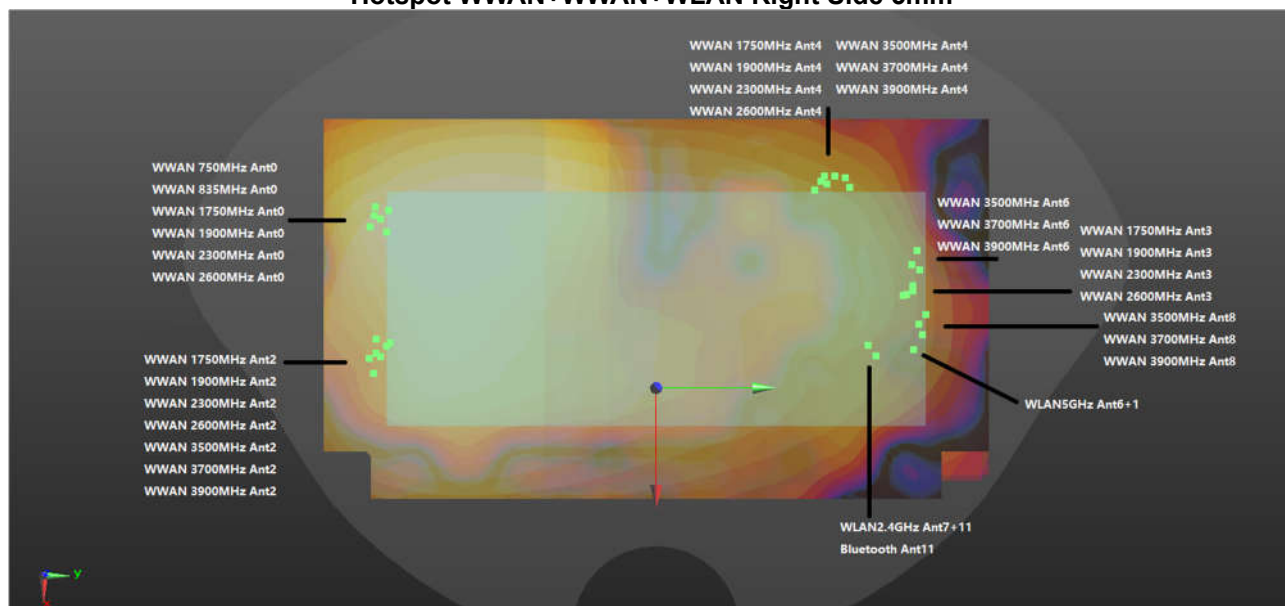
17.9 SPLSR Evaluation and Analysis

General Note:

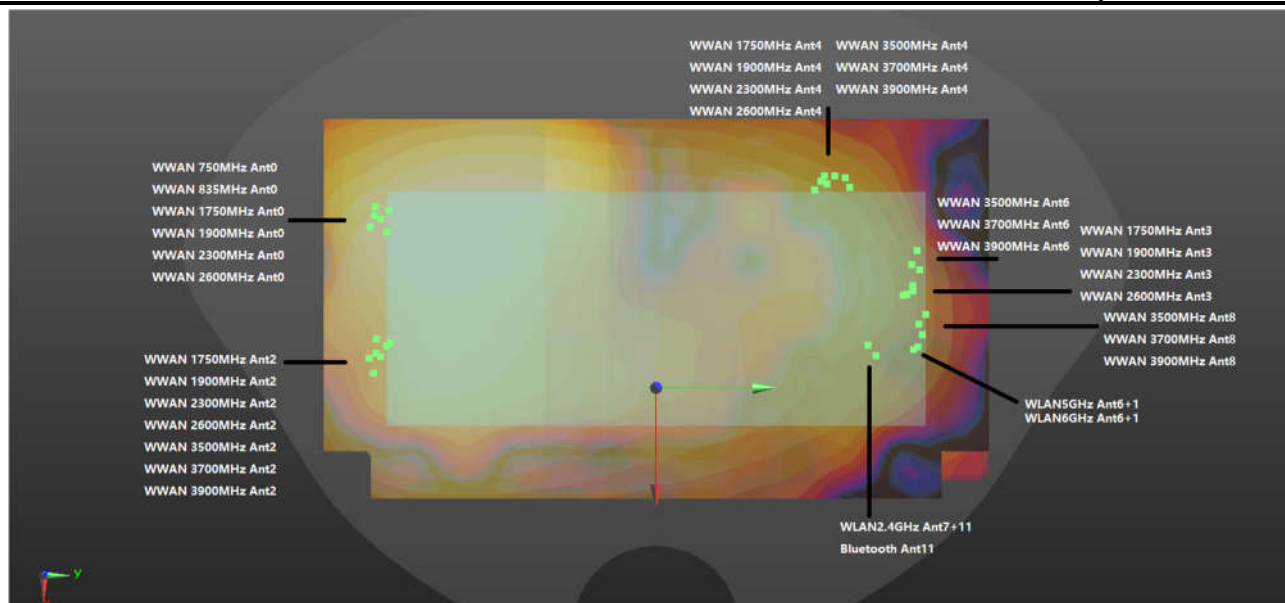
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
4. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
5. The axis peak locations refer to Section 17.10.



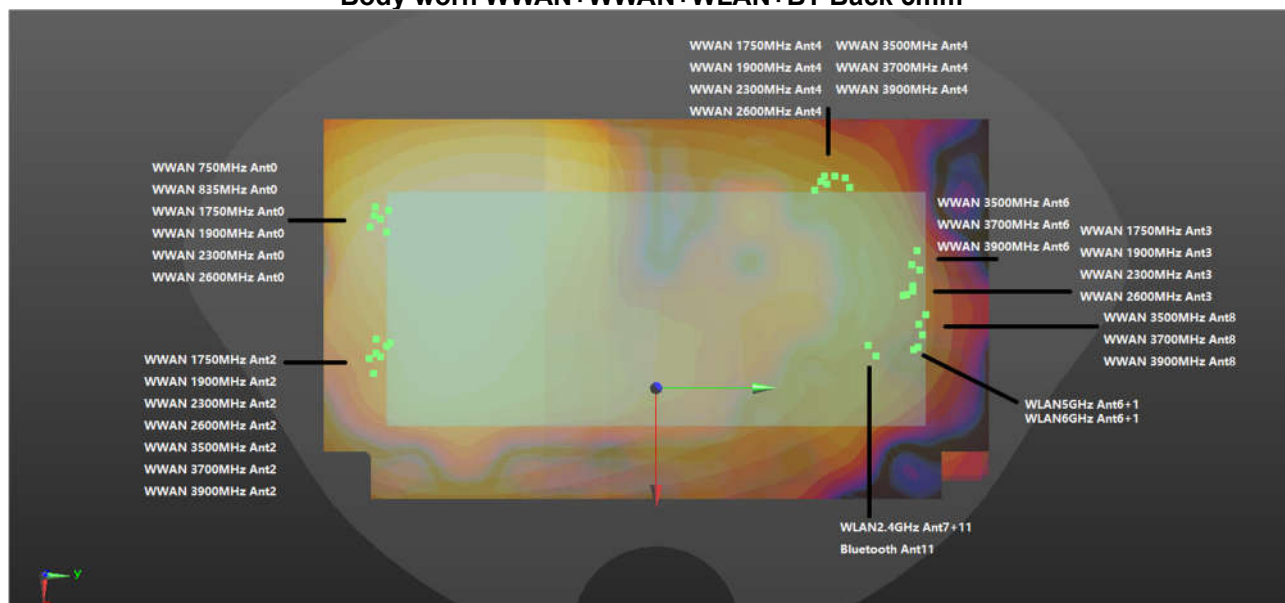
Hotspot WWAN+WWAN+WLAN Right Side 5mm



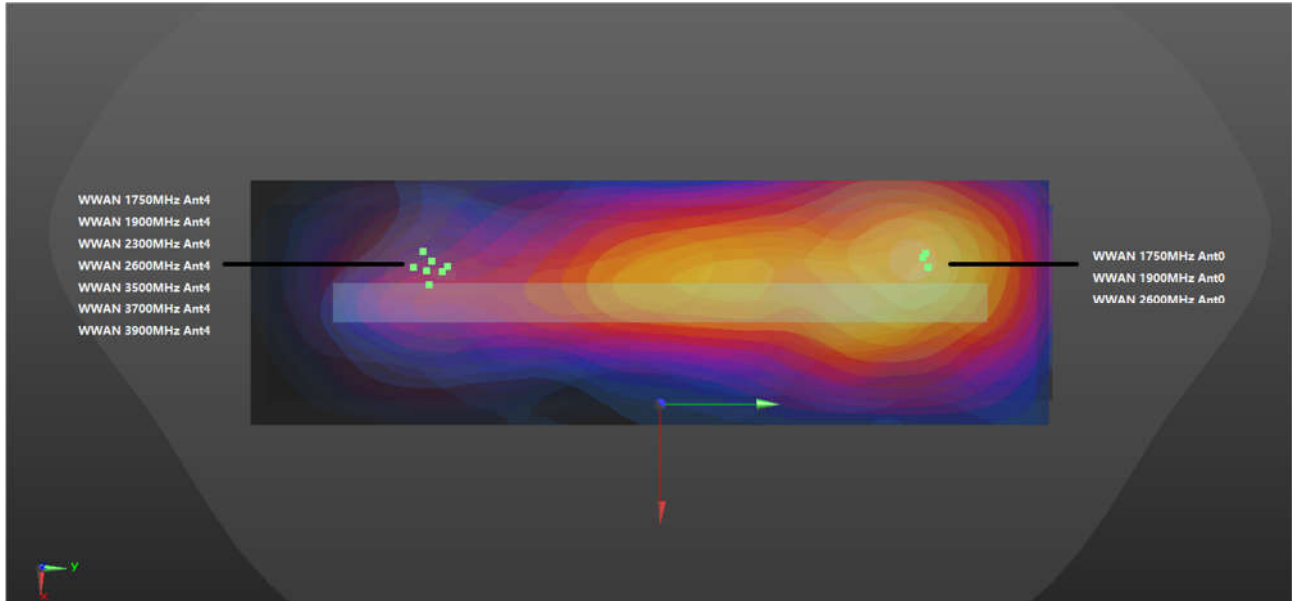
Hotspot WWAN+WWAN+WLAN+BT Back 5mm



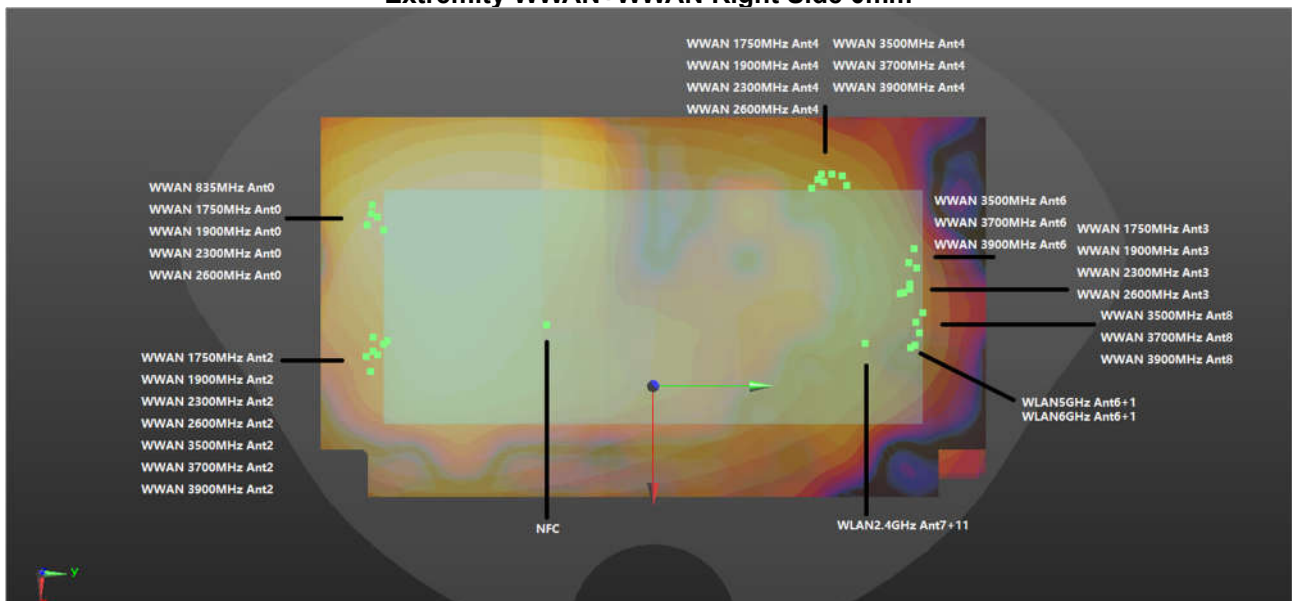
Body worn WWAN+WWAN+WLAN+BT Back 5mm



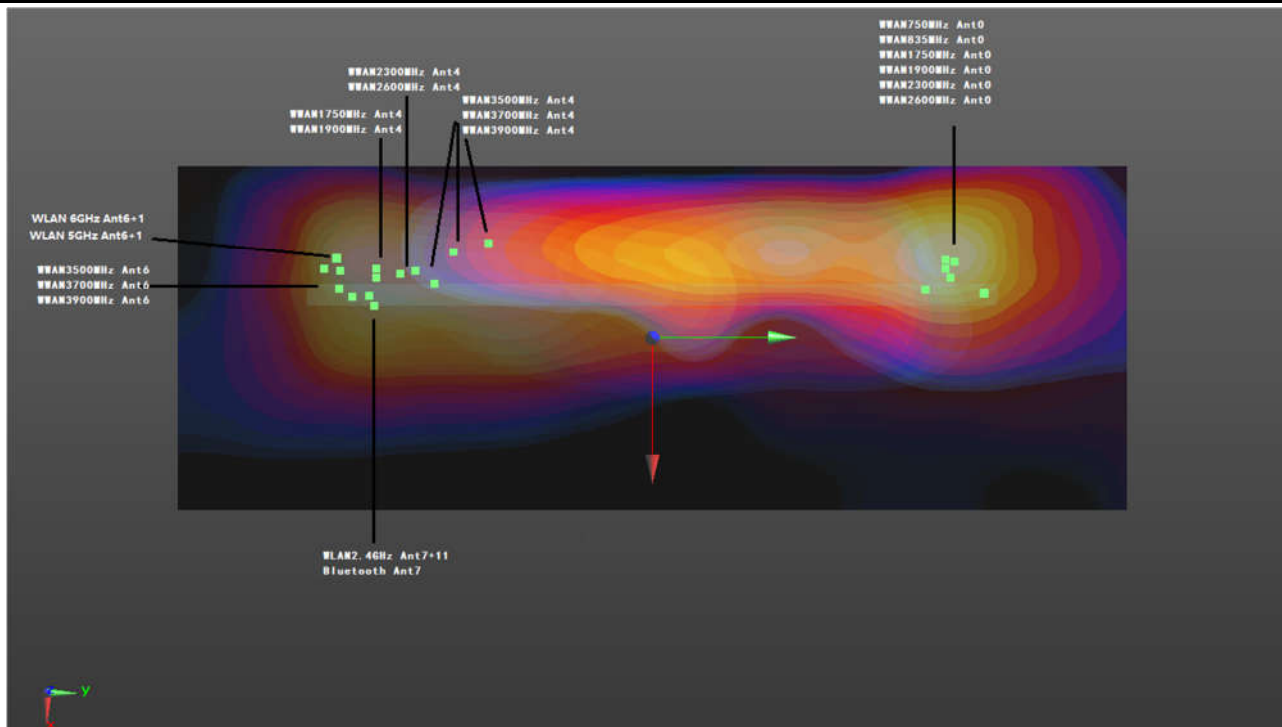
Body worn WWAN+WWAN+WLAN+BT Back 13mm



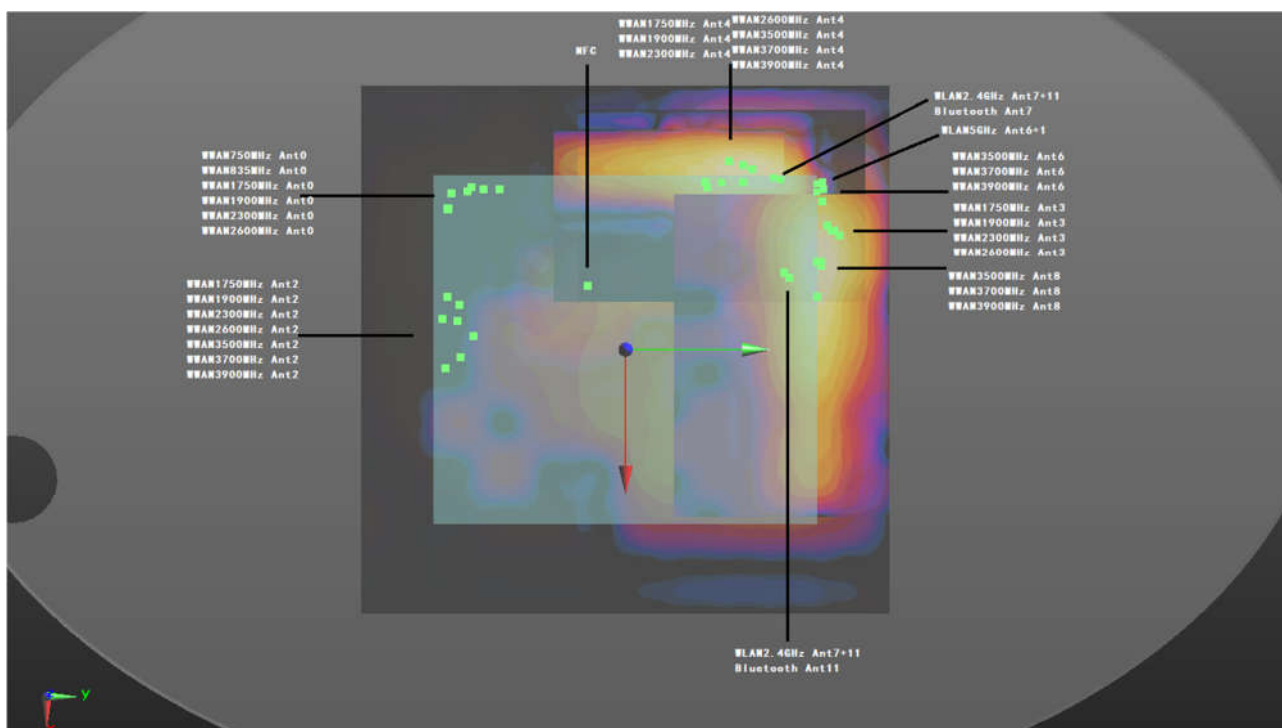
Extremity WWAN+WWAN Right Side 0mm



Extremity WWAN+WWAN+WLAN+NFC Back 0mm



Open_WWAN+WLAN+BT Right Side 0mm



Open_WWAN+WLAN+BT+NFC Back 0mm

Hotspot

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.277	1.277	5mm	-35.1	-79.8	-2.92	122.5	2.60	0.03	Not required
Ant3		1.324	1.324	5mm	4.5	36	2				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.277	1.277	5mm	-39	-79	-2.91	128.3	2.55	0.03	Not required
Ant4		1.274	1.274	5mm	-8.5	45.5	2				
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.277	1.277	5mm	-39	-79	-2.91	121.3	2.50	0.03	Not required
Ant6		1.226	1.226	5mm	-7.4	38	2				
No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.277	1.277	5mm	-35.1	-79.8	-2.92	132.9	2.40	0.03	Not required
Ant8		1.123	1.123	5mm	20.3	40.9	2				
No.5 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.277	1.277	5mm	-39	-79	-2.91	118.9	2.14	0.03	Not required
Ant7+11		0.858	0.858	5mm	-7.5	35.5	2				
No.6 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.277	1.277	5mm	-35.1	-79.8	-2.92	114.9	2.28	0.03	Not required
Ant6+1		1.002	1.002	5mm	-3.9	30.7	2				
No.7 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.295	1.295	5mm	7.6	-79	-2.73	115.1	2.62	0.04	Not required
Ant3		1.324	1.324	5mm	4.5	36	2				
No.8 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.295	1.295	5mm	7.6	-79	-2.73	125.6	2.57	0.03	Not required
Ant4		1.274	1.274	5mm	-8.5	45.5	2				
No.9 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.295	1.295	5mm	7.6	-79	-2.73	118.1	2.52	0.03	Not required
Ant6		1.226	1.226	5mm	-7.4	38	2				
No.10 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.295	1.295	5mm	7.6	-79	-2.73	120.7	2.42	0.03	Not required
Ant8		1.123	1.123	5mm	20.3	40.9	2				
No.11 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.295	1.295	5mm	7.6	-79	-2.73	115.6	2.15	0.03	Not required
Ant7+11		0.858	0.858	5mm	-7.5	35.5	2				
No.12 Band	Position	SAR	Summed	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous

		1g SAR (W/kg)			X	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR
Ant2	Back	1.295	1.295	5mm	7.6	-79	-2.73	110.4	2.30	0.03	Not required
Ant6+1		1.002	1.002	5mm	-3.9	30.7	2				

No.13 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Right Side	1.295	1.295	5mm	-4.5	58.8	-3.2	98.7	2.56	0.04	Not required
Ant4		1.268	1.268	5mm	-7.1	-39.7	2				

Body-worn

No.14 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	5mm	-35.1	-79.8	-2.92	122.5	2.68	0.04	Not required
Ant3		1.380	1.380	5mm	4.5	36	2				
No.15 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	5mm	-39	-79	-2.91	131.0	2.59	0.03	Not required
Ant4		1.294	1.294	5mm	-14	49.5	2				
No.16 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	5mm	-35.1	-79.8	-2.92	122.9	2.52	0.03	Not required
Ant6		1.226	1.226	5mm	-6	39.5	2				
No.17 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	5mm	-35.1	-79.8	-2.92	129.9	2.61	0.03	Not required
Ant8		1.315	1.315	5mm	24.6	35.5	2				
No.18 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	5mm	-39	-79	-2.91	127.8	2.12	0.02	Not required
Ant7+11		0.820	0.820	5mm	17.5	35.5	2				
No.19 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.296	1.296	5mm	-42	-78.3	-2.9	107.6	2.39	0.03	Not required
Ant6+1		1.092	1.092	5mm	-24.2	27.7	2				
No.20 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.300	1.300	5mm	7.6	-79	-2.73	238.7	2.68	0.02	Not required
Ant3		1.380	1.380	5mm	-23.5	40.5	-207				
No.21 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.300	1.300	5mm	7.6	-79	-2.73	127.1	2.59	0.03	Not required
Ant4		1.294	1.294	5mm	6.5	48	2				
No.22 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.300	1.300	5mm	7.6	-79	-2.73	119.4	2.53	0.03	Not required
Ant6		1.226	1.226	5mm	-6	39.5	2				

No.23 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.300	1.300	5mm	7.6	-79	-2.73	115.9	2.62	0.04	Not required
Ant8		1.315	1.315	5mm	24.6	35.5	2				
No.24 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.300	1.300	5mm	7.6	-79	-2.73	115.0	2.12	0.03	Not required
Ant7+11		0.820	0.820	5mm	17.5	35.5	2				
No.25 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.300	1.300	5mm	7.6	-79	-2.73	109.6	2.39	0.03	Not required
Ant6+1		1.092	1.092	5mm	-5.2	29.7	2				

Sensor off

No.39 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	0.564	0.564	13mm	-35.1	-79.8	-2.92	122.5	1.83	0.02	Not required
Ant3		1.267	1.267	13mm	4.5	36	2				
No.40 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	0.564	0.564	13mm	-35.1	-79.8	-2.92	133.2	1.80	0.02	Not required
Ant8		1.235	1.235	13mm	23	40	2				
No.41 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	0.767	0.767	13mm	7.6	-79	-2.73	115.1	2.03	0.03	Not required
Ant3		1.267	1.267	13mm	4.5	36	2				
No.42 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	0.767	0.767	13mm	7.6	-79	-2.73	114.5	2.00	0.02	Not required
Ant8		1.235	1.235	13mm	22	34.5	2				

Body

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	Case 1
					X	Y	Z					
Ant0	Right Side	1.286	1.286	0mm	-14.4	40.6	-4.11	80.2	2.57	0.05	Required	
Ant4		1.286	1.286	0mm	-1.5	-38.3	2					
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Right Side	1.286	1.286	0mm	-12	41.2	-5	98.8	1.85	0.03	Not required	
BT Ant7		0.563	0.563	0mm	-3.3	-57	2					
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Right Side	1.286	1.286	0mm	-14.4	40.6	-4.11	86.3	2.06	0.03	Not required	
WLAN5GHz Ant6+1		0.776	0.776	0mm	-0.2	-44.3	2					
No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Right Side	1.286	1.286	0mm	-14.4	40.6	-4.11	98.0	2.01	0.03	Not required	
WLAN2.4GHz Ant7+11		0.728	0.728	0mm	-3	-56.5	2					

No.5 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	95.7	2.60	0.04	Not required	
Ant3		1.310	1.310	0mm	-31	37	2					
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
Ant3	Back	1.310	1.310	0mm	-23.3	35.7	2	56.6	1.34	0.03	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
No.6 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	92.3	2.58	0.04	Not required	
Ant4		1.286	1.286	0mm	-23.5	30.6	2					
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
Ant4	Back	1.286	1.286	0mm	-23.5	30.6	2	51.6	1.32	0.03	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
No.7 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	136.3	2.63	0.03	Not required	
Ant6		1.340	1.340	0mm	-39.5	80.5	2					
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
Ant6	Back	1.340	1.340	0mm	-39.5	80.5	2	102.9	1.37	0.02	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
No.8 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Ant0	Back	1.294	1.294	0mm	-64.4	-53.4	-3.9	86.8	2.47	0.04	Not required	
BT Ant7		1.178	1.178	0mm	-53.1	32.5	2					
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required	
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9					
BT Ant7	Back	1.178	1.178	0mm	-53.1	32.5	2	62.2	1.21	0.02	Not required	



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NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.9 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	100.9	2.56	0.04	Not required
Ant8		1.264	1.264	0mm	-13.7	35.4	2				
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant8	Back	1.264	1.264	0mm	-13.7	35.4	2	56.8	1.30	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.10 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	102.4	2.57	0.04	Not required
BT Ant11		1.276	1.276	0mm	-20	40	2				
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
BT Ant11	Back	1.276	1.276	0mm	-20	40	2	60.9	1.31	0.02	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.11 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	87.0	2.28	0.04	Not required
Ant6+1		0.989	0.989	0mm	-49.4	32.1	2				
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant6+1	Back	0.989	0.989	0mm	-49.4	32.1	2	60.0	1.02	0.02	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.12 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.294	1.294	0mm	-60	-54.2	0.4	113.2	2.64	0.04	Not required
Ant7+11		1.342	1.342	0mm	18.7	27.2	2				
Ant0	Back	1.294	1.294	0mm	-56.3	-58.1	-2.3	51.3	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant7+11	Back	1.342	1.342	0mm	18.7	27.2	2	62.6	1.38	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.13 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	108.5	2.61	0.04	Not required
Ant3		1.310	1.310	0mm	-23.3	35.7	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant3	Back	1.310	1.310	0mm	-23.3	35.7	2	56.6	1.34	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.14 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	103.5	2.59	0.04	Not required
Ant4		1.286	1.286	0mm	-23.5	30.6	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant4	Back	1.286	1.286	0mm	-23.5	30.6	2	51.6	1.32	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.15 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				

Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	112.9	2.64	0.04	Not required
Ant6		1.340	1.340	0mm	-39.5	38.2	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant6	Back	1.340	1.340	0mm	-39.5	38.2	2	61.8	1.37	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.16 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	110.7	2.48	0.04	Not required
BT Ant7		1.178	1.178	0mm	-53.1	32.5	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
BT Ant7	Back	1.178	1.178	0mm	-53.1	32.5	2	62.2	1.21	0.02	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.17 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	108.3	2.56	0.04	Not required
Ant8		1.264	1.264	0mm	-13.7	35.4	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant8	Back	1.264	1.264	0mm	-13.7	35.4	2	56.8	1.30	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.18 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	112.7	2.58	0.04	Not required
Ant11		1.276	1.276	0mm	-20	40	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant11	Back	1.276	1.276	0mm	-20	40	2	60.9	1.31	0.02	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.19 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	109.2	2.29	0.03	Not required
Ant6+1		0.989	0.989	0mm	-49.4	32.1	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant6+1	Back	0.989	0.989	0mm	-49.4	32.1	2	60.0	1.02	0.02	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
No.20 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	106.7	2.64	0.04	Not required
Ant7+11		1.342	1.342	0mm	18.7	27.2	2				
Ant2	Back	1.299	1.299	0mm	-18.7	-72.6	-3.5	52.1	1.33	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				
Ant7+11	Back	1.342	1.342	0mm	18.7	27.2	2	62.6	1.38	0.03	Not required
NFC		0.033	0.033	0mm	-21.3	-20.6	-3.9				

**Extremity**

No.26 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	163.6	6.37	0.10	Not required
Ant3		3.189	3.189	0mm	1.9	78.9	2				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	56.0	3.19	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant3	Back	3.189	3.189	0mm	1.9	78.9	2	107.9	3.20	0.05	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				

No.27 Band		Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	139.3	4.94	0.08	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	139.2	5.09	0.08	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	131.4	5.14	0.09	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	132.3	5.28	0.09	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	131.1	4.90	0.08	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	137.3	5.17	0.09	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	135.8	5.19	0.09	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	138.9	4.61	0.07	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	142.8	5.53	0.09	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	134.3	4.88	0.08	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	142.1	5.38	0.09	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	136.5	5.15	0.09	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	141.0	5.40	0.09	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	141.0	5.55	0.09	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	133.0	5.60	0.10	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	134.0	5.75	0.10	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	132.4	5.36	0.09	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	138.7	5.63	0.10	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	137.5	5.65	0.10	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	140.8	5.07	0.08	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	145.0	5.99	0.10	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				



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LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	135.8	5.34	0.09	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	143.5	5.84	0.10	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	137.8	5.61	0.10	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	133.6	3.86	0.06	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	133.6	4.01	0.06	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	125.6	4.06	0.07	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	126.6	4.20	0.07	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	125.0	3.82	0.06	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	131.4	4.09	0.06	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	130.1	4.11	0.06	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	133.4	3.53	0.05	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	137.6	4.45	0.07	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	128.5	3.80	0.06	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	136.2	4.30	0.07	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	130.4	4.07	0.06	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	139.1	4.81	0.08	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	139.0	4.95	0.08	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	131.3	5.01	0.09	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	132.1	5.15	0.09	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	131.2	4.77	0.08	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	137.2	5.04	0.08	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	135.6	5.05	0.08	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	138.7	4.48	0.07	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	142.4	5.39	0.09	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	134.2	4.74	0.08	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	142.1	5.24	0.08	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	136.6	5.01	0.08	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	138.1	4.92	0.08	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				



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LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	138.1	5.07	0.08	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	130.1	5.12	0.09	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	131.1	5.26	0.09	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	129.5	4.88	0.08	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	135.8	5.15	0.09	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	134.6	5.17	0.09	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	137.9	4.59	0.07	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	142.1	5.51	0.09	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	132.9	4.86	0.08	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	140.6	5.36	0.09	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	134.9	5.13	0.09	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	131.7	5.12	0.09	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	131.6	5.27	0.09	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	124.0	5.32	0.10	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	124.7	5.46	0.10	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	123.8	5.08	0.09	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	129.8	5.35	0.10	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	128.2	5.36	0.10	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	131.3	4.79	0.08	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	135.0	5.71	0.10	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	126.8	5.06	0.09	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	134.7	5.55	0.10	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	129.2	5.33	0.10	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	133.6	3.58	0.05	Not required
FR1 n41	Ant 4		2.225	2.225	0mm	-9	48.4	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	133.5	3.72	0.05	Not required
FR1 n48	Ant 4		2.373	2.373	0mm	-7.5	48	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	125.6	3.78	0.06	Not required
FR1 n7	Ant 4		2.426	2.426	0mm	-13.5	41.2	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	126.5	3.92	0.06	Not required
FR1 n77	Ant 4		2.567	2.567	0mm	-10.3	41.5	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	125.2	3.54	0.05	Not required
LTE Band 25	Ant 4		2.186	2.186	0mm	-18.5	41.6	2				



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WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	131.4	3.81	0.06	Not required
LTE Band 41	Ant 4		2.455	2.455	0mm	-14	47.2	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	130.0	3.82	0.06	Not required
LTE Band 42	Ant 4		2.471	2.471	0mm	-10	45	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	133.2	3.25	0.04	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-6.9	47.6	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	137.2	4.16	0.06	Not required
LTE Band 66	Ant 4		2.812	2.812	0mm	0	50	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	128.5	3.51	0.05	Not required
LTE Band 7	Ant 4		2.162	2.162	0mm	-12.5	43.9	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	136.3	4.01	0.06	Not required
WCDMA II	Ant 4		2.661	2.661	0mm	-14.6	52.2	2				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	130.6	3.78	0.06	Not required
WCDMA IV	Ant 4		2.434	2.434	0mm	-18	47	2				
FR1 n7	Ant 0	Back	2.715	2.715	0mm	-34.8	-88.4	-2.99	64.1	2.73	0.07	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 25	Ant 0	Back	3.178	3.178	0mm	-42.5	-88.5	-2.95	67.0	3.19	0.09	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 26	Ant 0	Back	1.637	1.637	0mm	-40.4	-81.4	-2.89	59.7	1.65	0.04	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 30	Ant 0	Back	2.580	2.580	0mm	-31.6	-88.8	-3.01	63.5	2.59	0.07	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 66	Ant 0	Back	2.694	2.694	0mm	-42.1	-85.6	-2.83	64.2	2.71	0.07	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 7	Ant 0	Back	2.893	2.893	0mm	-29.6	-81.6	-3.18	56.0	2.91	0.09	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
WCDMA V	Ant 0	Back	1.350	1.350	0mm	-36.5	-82.2	-2.96	58.8	1.36	0.03	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
FR1 n41	Ant 4	Back	2.225	2.225	0mm	-9	48.4	2	76.4	2.24	0.04	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
FR1 n48	Ant 4	Back	2.373	2.373	0mm	-7.5	48	2	76.1	2.39	0.05	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
FR1 n7	Ant 4	Back	2.426	2.426	0mm	-13.5	41.2	2	69.0	2.44	0.06	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
FR1 n77	Ant 4	Back	2.567	2.567	0mm	-10.3	41.5	2	69.4	2.58	0.06	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 25	Ant 4	Back	2.186	2.186	0mm	-18.5	41.6	2	69.5	2.20	0.05	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 41	Ant 4	Back	2.455	2.455	0mm	-14	47.2	2	75.0	2.47	0.05	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 42	Ant 4	Back	2.471	2.471	0mm	-10	45	2	72.9	2.48	0.05	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 48	Ant 4	Back	1.896	1.896	0mm	-6.9	47.6	2	75.8	1.91	0.03	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 66	Ant 4	Back	2.812	2.812	0mm	0	50	2	79.1	2.82	0.06	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
LTE Band 7	Ant 4	Back	2.162	2.162	0mm	-12.5	43.9	2	71.7	2.17	0.04	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
WCDMA II	Ant 4	Back	2.661	2.661	0mm	-14.6	52.2	2	80.0	2.67	0.05	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
WCDMA IV	Ant 4	Back	2.434	2.434	0mm	-18	47	2	74.9	2.45	0.05	Not required
NFC	NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				

No.28 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				



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Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	159.7	5.54	0.08	Not required
Ant6		2.358	2.358	0mm	-1.5	75.5	2				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	56.0	3.19	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant6	Back	2.358	2.358	0mm	-1.5	75.5	2	104.1	2.37	0.04	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.29 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	169.1	6.41	0.10	Not required
Ant8		3.232	3.232	0mm	23	79	2				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	56.0	3.19	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant8	Back	3.232	3.232	0mm	23	79	2	113.2	3.24	0.05	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.30 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	117.3	5.16	0.10	Not required
Ant7+11		1.978	1.978	0mm	-18	35	2				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	56.0	3.19	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant7+11	Back	1.978	1.978	0mm	-18	35	2	62.9	1.99	0.04	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.31 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	157.4	5.59	0.08	Not required
Ant6+1		2.411	2.411	0mm	-14.6	75	2				
Ant0	Back	3.178	3.178	0mm	-29.6	-81.6	-3.18	56.0	3.19	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant6+1	Back	2.411	2.411	0mm	-14.6	75	2	102.7	2.42	0.04	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.32 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	158.1	6.42	0.10	Not required
Ant3		3.189	3.189	0mm	1.9	78.9	2				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	56.0	3.25	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant3	Back	3.189	3.189	0mm	1.9	78.9	2	107.9	3.20	0.05	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.33 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	142.2	6.05	0.10	Not required
Ant4		2.812	2.812	0mm	-39.1	55.2	2				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	56.0	3.25	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant4	Back	2.812	2.812	0mm	-39.1	55.2	2	86.5	2.82	0.05	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.34 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	154.8	5.59	0.09	Not required
Ant6		2.358	2.358	0mm	-1.5	75.5	2				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	56.0	3.25	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				



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Ant6	Back	2.358	2.358	0mm	-1.5	75.5	2	104.1	2.37	0.04	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.35 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	158.8	6.47	0.10	Not required
Ant8		3.232	3.232	0mm	23	79	2				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	56.0	3.25	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant8	Back	3.232	3.232	0mm	23	79	2	113.2	3.24	0.05	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.36 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	116.9	5.21	0.10	Not required
Ant7+11		1.978	1.978	0mm	-18	35	2				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	56.0	3.25	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant7+11	Back	1.978	1.978	0mm	-18	35	2	62.9	1.99	0.04	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
No.37 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	154.8	5.65	0.09	Not required
Ant6+1		2.411	2.411	0mm	-1.5	75.5	2				
Ant2	Back	3.234	3.234	0mm	7.6	-79	-2.73	56.0	3.25	0.10	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				
Ant6+1	Back	2.411	2.411	0mm	-1.5	75.5	2	104.1	2.42	0.04	Not required
NFC		0.012	0.012	0mm	-14.6	-27.6	-3.22				

No.38 Band		Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	102.7	3.31	0.06	Not required
FR1 n41	Ant 4		1.797	1.797	0mm	-5.5	-43.5	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	100.0	3.17	0.06	Not required
FR1 n48	Ant 4		1.659	1.659	0mm	-3.7	-40.7	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	103.8	3.78	0.07	Not required
FR1 n7	Ant 4		2.271	2.271	0mm	-1.8	-44.5	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	99.3	2.69	0.04	Not required
FR1 n77	Ant 4		1.182	1.182	0mm	-3	-40	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	98.1	3.26	0.06	Not required
LTE Band 25	Ant 4		1.752	1.752	0mm	-1	-38.8	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	103.3	4.18	0.08	Not required
LTE Band 41	Ant 4		2.668	2.668	0mm	-1.5	-44	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	102.7	3.40	0.06	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-7	-43.5	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	97.6	3.57	0.07	Not required
LTE Band 66	Ant 4		2.064	2.064	0mm	-1	-38.3	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	111.0	3.30	0.05	Not required
LTE Band 7	Ant 4		1.796	1.796	0mm	-6	-51.8	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	99.2	3.61	0.07	Not required
WCDMA II	Ant 4		2.099	2.099	0mm	-4	-40	2				
FR1 n7	Ant 0	Right Side	1.508	1.508	0mm	-5.7	59.1	-3.12	102.5	3.64	0.07	Not required
WCDMA IV	Ant 4		2.131	2.131	0mm	-5	-43.3	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	112.1	3.37	0.06	Not required
FR1 n41	Ant 4		1.797	1.797	0mm	-5.5	-43.5	2				

LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	109.4	3.23	0.05	Not required
FR1 n48	Ant 4		1.659	1.659	0mm	-3.7	-40.7	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	113.3	3.84	0.07	Not required
FR1 n7	Ant 4		2.271	2.271	0mm	-1.8	-44.5	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	108.8	2.75	0.04	Not required
FR1 n77	Ant 4		1.182	1.182	0mm	-3	-40	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	107.7	3.32	0.06	Not required
LTE Band 25	Ant 4		1.752	1.752	0mm	-1	-38.8	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	112.9	4.24	0.08	Not required
LTE Band 41	Ant 4		2.668	2.668	0mm	-1.5	-44	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	112.1	3.47	0.06	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-7	-43.5	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	107.2	3.64	0.06	Not required
LTE Band 66	Ant 4		2.064	2.064	0mm	-1	-38.3	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	120.4	3.37	0.05	Not required
LTE Band 7	Ant 4		1.796	1.796	0mm	-6	-51.8	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	108.7	3.67	0.06	Not required
WCDMA II	Ant 4		2.099	2.099	0mm	-4	-40	2				
LTE Band 25	Ant 0	Right Side	1.571	1.571	0mm	-10.5	68.4	-3.09	112.0	3.70	0.06	Not required
WCDMA IV	Ant 4		2.131	2.131	0mm	-5	-43.3	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	102.6	3.36	0.06	Not required
FR1 n41	Ant 4		1.797	1.797	0mm	-5.5	-43.5	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	99.9	3.22	0.06	Not required
FR1 n48	Ant 4		1.659	1.659	0mm	-3.7	-40.7	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	103.7	3.84	0.07	Not required
FR1 n7	Ant 4		2.271	2.271	0mm	-1.8	-44.5	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	99.2	2.75	0.05	Not required
FR1 n77	Ant 4		1.182	1.182	0mm	-3	-40	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	98.1	3.32	0.06	Not required
LTE Band 25	Ant 4		1.752	1.752	0mm	-1	-38.8	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	103.2	4.23	0.08	Not required
LTE Band 41	Ant 4		2.668	2.668	0mm	-1.5	-44	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	102.6	3.46	0.06	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-7	-43.5	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	97.6	3.63	0.07	Not required
LTE Band 66	Ant 4		2.064	2.064	0mm	-1	-38.3	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	110.9	3.36	0.06	Not required
LTE Band 7	Ant 4		1.796	1.796	0mm	-6	-51.8	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	99.2	3.66	0.07	Not required
WCDMA II	Ant 4		2.099	2.099	0mm	-4	-40	2				
LTE Band 41	Ant 0	Right Side	1.565	1.565	0mm	-6.2	59	-3.19	102.4	3.70	0.07	Not required
WCDMA IV	Ant 4		2.131	2.131	0mm	-5	-43.3	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	109.0	3.67	0.06	Not required
FR1 n41	Ant 4		1.797	1.797	0mm	-5.5	-43.5	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	106.3	3.53	0.06	Not required
FR1 n48	Ant 4		1.659	1.659	0mm	-3.7	-40.7	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	110.3	4.14	0.08	Not required
FR1 n7	Ant 4		2.271	2.271	0mm	-1.8	-44.5	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	105.7	3.05	0.05	Not required
FR1 n77	Ant 4		1.182	1.182	0mm	-3	-40	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	104.7	3.62	0.07	Not required
LTE Band 25	Ant 4		1.752	1.752	0mm	-1	-38.8	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	109.8	4.54	0.09	Not required
LTE Band 41	Ant 4		2.668	2.668	0mm	-1.5	-44	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	109.0	3.76	0.07	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-7	-43.5	2				

LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	104.2	3.93	0.07	Not required
LTE Band 66	Ant 4		2.064	2.064	0mm	-1	-38.3	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	117.3	3.66	0.06	Not required
LTE Band 7	Ant 4		1.796	1.796	0mm	-6	-51.8	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	105.6	3.97	0.07	Not required
WCDMA II	Ant 4		2.099	2.099	0mm	-4	-40	2				
LTE Band 66	Ant 0	Right Side	1.868	1.868	0mm	-10.5	65.3	-3.09	108.9	4.00	0.07	Not required
WCDMA IV	Ant 4		2.131	2.131	0mm	-5	-43.3	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	102.4	3.96	0.08	Not required
FR1 n41	Ant 4		1.797	1.797	0mm	-5.5	-43.5	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	99.6	3.82	0.07	Not required
FR1 n48	Ant 4		1.659	1.659	0mm	-3.7	-40.7	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	103.5	4.43	0.09	Not required
FR1 n7	Ant 4		2.271	2.271	0mm	-1.8	-44.5	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	98.9	3.34	0.06	Not required
FR1 n77	Ant 4		1.182	1.182	0mm	-3	-40	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	97.8	3.91	0.08	Not required
LTE Band 25	Ant 4		1.752	1.752	0mm	-1	-38.8	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	103.0	4.83	0.10	Not required
LTE Band 41	Ant 4		2.668	2.668	0mm	-1.5	-44	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	102.5	4.06	0.08	Not required
LTE Band 48	Ant 4		1.896	1.896	0mm	-7	-43.5	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	97.3	4.23	0.09	Not required
LTE Band 66	Ant 4		2.064	2.064	0mm	-1	-38.3	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	110.7	3.96	0.07	Not required
LTE Band 7	Ant 4		1.796	1.796	0mm	-6	-51.8	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	98.9	4.26	0.09	Not required
WCDMA II	Ant 4		2.099	2.099	0mm	-4	-40	2				
LTE Band 7	Ant 0	Right Side	2.161	2.161	0mm	-4.5	58.8	-3.2	102.2	4.29	0.09	Not required
WCDMA IV	Ant 4		2.131	2.131	0mm	-5	-43.3	2				

17.10 Maximum Reported SAR and SAR Peak Locations

General Note:

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

Hotspot

		Back																	
Band		Ant0			Ant2			Ant3			Ant4			Ant6			Ant8		
GSM850	SAR (W/kg)	0.926																	
	Axis	-36.5	-83.7	-3.15															
GSM1900	SAR (W/kg)							1.295			0.593								
	Axis							-2.7	81.0	-2.96	-38.9	78.8	-3.18						
WCDMA II	SAR (W/kg)							1.287			1.239								
	Axis							-2.8	81.0	-2.96	-40.5	77.3	-3.18						
WCDMA IV	SAR (W/kg)							1.278			1.292								
	Axis							-2.9	80.9	-2.98	-40.7	78.2	-3.18						
WCDMA V	SAR (W/kg)	1.249																	
	Axis	-36.5	-82.2	-2.96															
LTE Band 7	SAR (W/kg)	0.652			1.274			1.194			1.098								
	Axis	-32.2	-83.6	-3.16	15.1	-82.8	-2.88	-0.8	79.0	-2.95	-41.2	78.4	-3.13						
LTE Band 12(17)	SAR (W/kg)	1.089																	
	Axis	-36.5	-86.9	-2.93															
LTE Band 13	SAR (W/kg)	0.828																	
	Axis	-36.5	-85.3	-2.94															
LTE Band 14	SAR (W/kg)	1.033																	
	Axis	-40.4	-81.4	-2.88															
LTE Band 25(2)	SAR (W/kg)	0.782			1.14			1.29			1.276								
	Axis	-42.5	-88.5	-2.95	19.3	-83.3	-2.90	-1.2	79.7	-2.95	-40.4	78.1	-3.14						
LTE Band 26(5)	SAR (W/kg)	1.244																	
	Axis	-40.4	-81.4	-2.89															
LTE Band 30	SAR (W/kg)	1.277			1.274			1.185			1.288								
	Axis	-31.6	-88.8	-3.01	15.2	-84.6	-2.95	0.2	78.8	-2.96	-41.0	80.6	-3.16						
LTE Band 66(4)	SAR (W/kg)	0.712			1.08			1.286			1.29								
	Axis	-42.1	-85.6	-2.83	20.8	-83.3	-2.93	-2.9	79.6	-2.96	-41.0	78.6	-3.13						
LTE Band 71	SAR (W/kg)	0.701																	
	Axis	-33.4	-84.6	-3.02															
LTE Band 41	SAR (W/kg)	0.859			1.183			1.215			1.292								
	Axis	-29.8	-84.6	-3.02	14.8	-83.4	-2.93	-1.8	79.0	-2.98	-41.2	79.2	-3.17						
LTE Band 42	SAR (W/kg)										1.221			1.13			1.295		
	Axis										-41.1	81.2	-3.16	-8.8	86.0	-3.09	18.8	78.2	-2.96
LTE Band 43	SAR (W/kg)				1.18						1.21			1.298			1.196		
	Axis				13.0	-89.0	-3.15				-41.2	80.9	-3.15	-12.0	79.2	-3.10	20.4	76.2	-2.85
LTE Band 48	SAR (W/kg)										1.17			1.282			1.298		
	Axis				13.2	-82.6	-3.15				-41.0	81.5	-3.16	-5.6	79.2	-3.10	17.8	76.9	-2.97
FR1 n7	SAR (W/kg)	0.817						0.963			1.28								
	Axis	-34.8	-88.4	-2.99	7.6	-79.8	-2.88	-1.1	79.1	-2.91	-40.6	81.8	-3.00						



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[illegible]

Right Side									
Band		Ant0			Ant4			Ant6+1	
GSM850	SAR (W/kg)	0.622							
	Axis	-4.5	59.2	-3.2					
GSM1900	SAR (W/kg)				0.591				
	Axis				-11.3	-66.1	-5.3		
WCDMA II	SAR (W/kg)				1.274				
	Axis				-8.3	-59.6	-3.7		
WCDMA IV	SAR (W/kg)				1.021				
	Axis				-10.3	-67.2	-1.1		
WCDMA V	SAR (W/kg)	0.849							
	Axis	-6.5	59.5	-3.1					
LTE Band 7	SAR (W/kg)	1.276			1.273				
	Axis	-4.5	58.8	-3.2	-7.6	-66.7	-3.8		
LTE Band 12(17)	SAR (W/kg)	1.165							
	Axis	-8.2	60.2	-3.2					
LTE Band 13	SAR (W/kg)	0.887							
	Axis	-7.0	61.4	-3.1					

LTE Band 14	SAR (W/kg)	1.017								
	Axis	-5.0	60.3	-3.2						
LTE Band 25(2)	SAR (W/kg)	1.292			1.197					
	Axis	-10.5	68.4	-3.1	-9.0	-58.0	-3.1			
LTE Band 26(5)	SAR (W/kg)	1.018								
	Axis	-4.5	60.5	-3.1						
LTE Band 30	SAR (W/kg)	0.595			1.245					
	Axis	-7.7	58.8	-3.1	-8.7	-65.4	-1.3			
LTE Band 66(4)	SAR (W/kg)	1.295			1.157					
	Axis	-10.5	65.3	-3.1	-9.6	-65.5	-2.9			
LTE Band 71	SAR (W/kg)	1.068								
	Axis	-6.8	62.2	-3.1						
LTE Band 41	SAR (W/kg)	1.294			1.207					
	Axis	-6.2	59.0	-3.2	-8.0	-67.1	-3.0			
LTE Band 42	SAR (W/kg)				0.657					
	Axis				-6.8	-65.9	-1.7			
LTE Band 43	SAR (W/kg)				0.53					
	Axis				-0.9	-59.6	-3.3			
LTE Band 48	SAR (W/kg)				0.721					
	Axis				-2.2	-62.6	-2.1			
FR1 n7	SAR (W/kg)	1.282			1.194					
	Axis	-5.7	59.1	-3.1	-8.0	-64.7	-4.7			
FR1 n12	SAR (W/kg)	0.895								
	Axis	-1.8	63.4	-3.1						
FR1 n13	SAR (W/kg)	0.463								
	Axis	-5.4	64.1	-3.1						
FR1 n14	SAR (W/kg)	0.745								
	Axis	-1.1	61.7	-3.3						
FR1 n26(5)	SAR (W/kg)	0.79								
	Axis	-4.8	65.5	-3.2						
FR1 n30	SAR (W/kg)	0.056			0.956					
	Axis	-1.7	58.9	-3.1	-8.5	-62.3	-1.4			
FR1 n71	SAR (W/kg)	0.782								
	Axis	-0.9	59.4	-3.3						
FR1 n41(38)	SAR (W/kg)	0.571			1.173					
	Axis	-2.7	59.8	-3.1	-6.8	-62.9	-1.8			
FR1 n48	SAR (W/kg)				0.44					
	Axis				-2.0	-60.3	-1.0			
FR1 n77(78)	SAR (W/kg)				0.741					
	Axis				-1.4	-65.2	-1.4			
WLAN5GHz	SAR (W/kg)							0.51		
	Axis							1.1	-71.1	-3.2

Body-worn

Back										
Band		Ant0	Ant2	Ant3	Ant4	Ant6	Ant8	Ant11	Ant7+11	Ant6+1
GSM850	SAR (W/kg)	0.926								
	Axis	-36.5	-83.7	-3.2						
GSM1900	SAR (W/kg)			1.295	0.593					
	Axis			-2.7	81.0	-2.96	-38.9	78.8	-3.18	
WCDMA II	SAR (W/kg)			1.287	1.285					
	Axis			-2.8	81.0	-2.96	-40.5	77.3	-3.18	
WCDMA IV	SAR (W/kg)			1.278	1.292					

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Sensor off

Back																		
Band		Ant0			Ant2			Ant3			Ant4			Ant6	Ant8	Ant11	Ant7+11	Ant6+1
GSM850	SAR (W/kg)		0.926															
	Axis	-36.5	-83.7	-3.2														
GSM1900	SAR (W/kg)							1.295			0.593							
	Axis						-2.7	81.0	-2.96	-38.9	78.8	-3.18						
WCDMA II	SAR (W/kg)							1.287			1.285							
	Axis						-2.8	81.0	-2.96	-40.5	77.3	-3.18						
WCDMA IV	SAR (W/kg)							1.278			1.292							
	Axis						-2.9	80.9	-2.98	-40.7	78.2	-3.18						
WCDMA V	SAR (W/kg)		1.249															
	Axis	-36.5	-82.2	-2.96														
LTE Band 7	SAR (W/kg)		1.191		1.274			1.274			1.29							
	Axis	-32.2	-83.6	-3.16	15.1	-82.8	-2.88	-0.8	79.0	-2.95	-41.2	78.4	-3.13					
LTE Band 12(17)	SAR (W/kg)		0.946															
	Axis	-36.5	-86.9	-2.93														
LTE Band 13	SAR (W/kg)		0.806															
	Axis	-36.5	-85.3	-2.94														
LTE Band 14	SAR (W/kg)		1.033															
	Axis	-40.4	-81.4	-2.88														
LTE Band 25(2)	SAR (W/kg)		1.284		1.27			1.29			1.276							
	Axis	-42.5	-88.5	-2.95	19.3	-83.3	-2.90	-1.2	79.7	-2.95	-40.4	78.1	-3.14					
LTE Band 26(5)	SAR (W/kg)		1.244															
	Axis	-40.4	-81.4	-2.89														
LTE Band 30	SAR (W/kg)		1.277		1.274			1.275			1.288							
	Axis	-31.6	-88.8	-3.01	15.2	-84.6	-2.95	0.2	78.8	-2.96	-41.0	80.6	-3.16					
LTE Band 66(4)	SAR (W/kg)		1.296		1.276			1.286										
	Axis	-42.1	-85.6	-2.83	20.8	-83.3	-2.93	-2.9	79.6	-2.96	-41.0	78.6	-3.13					
LTE Band 71	SAR (W/kg)		0.743															
	Axis	-33.4	-84.6	-3.02														
LTE Band 41	SAR (W/kg)		1.288		1.278			1.294			1.295							
	Axis	-29.8	-84.6	-3.02	14.8	-83.4	-2.93	-1.8	79.0	-2.98	-41.2	79.2	-3.17					



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[illegible]

Body

Right Side									
Band		Ant0			Ant4			Ant6	
GSM850	SAR (W/kg)	1.285							
	Axis	-12.0	41.2	-5.0					
GSM1900	SAR (W/kg)				1.284				
	Axis				-6.5	-58.1	-4.1		
WCDMA II	SAR (W/kg)				1.065				
	Axis				-5.6	-56.9	-3.6		
WCDMA IV	SAR (W/kg)				0.88				
	Axis				-5.0	-61.2	-3.5		
WCDMA V	SAR (W/kg)	0.865							
	Axis	-8.0	42.3	-4.1					
LTE Band 7	SAR (W/kg)	0.413			0.975				
	Axis	-12.0	43.3	-4.5	-6.2	-61.3	-3.0		
LTE Band 12(17)	SAR (W/kg)	1.286							
	Axis	-9.6	41.6	-4.4					
LTE Band 13	SAR (W/kg)	1.283							
	Axis	-11.9	42.5	-4.5					
LTE Band 14	SAR (W/kg)	1.245							
	Axis	-9.6	43.2	-3.6					
LTE Band 25(2)	SAR (W/kg)	0.65			1.171				
	Axis	-12.0	41.8	-3.4	-7.0	-58.9	-4.0		
LTE Band 26(5)	SAR (W/kg)	1.28							
	Axis	-9.9	43.5	-3.3					
LTE Band 30	SAR (W/kg)	0.458			1.187				
	Axis	-9.7	46.2	-3.2	-5.3	-59.2	-4.2		
LTE Band 66(4)	SAR (W/kg)	1.047			1.119				
	Axis	-12.0	46.1	-3.0	-5.2	-61.2	-5.0		
LTE Band 71	SAR (W/kg)	1.272							
	Axis	-11.1	43.1	-4.5					
LTE Band 41	SAR (W/kg)	0.337			0.905				
	Axis	-9.0	42.3	-4.3	-5.1	-62.3	-4.2		
LTE Band 42	SAR (W/kg)				0.711			0.597	
	Axis				-5.9	-59.6	-4.4	-11.0	-63.2 -3.0
LTE Band 43	SAR (W/kg)				0.44			0.709	
	Axis				-5.0	-58.3	-3.8	-12.0	-62.5 -2.0
LTE Band 48	SAR (W/kg)				0.398			0.589	
	Axis				-4.8	-59.2	-4.0	-10.8	-66.9 -3.0
FR1 n7	SAR (W/kg)	0.753			1.177				
	Axis	-18.0	68.0	-3.9	-12.4	-59.6	-3.9		
FR1 n12	SAR (W/kg)	0.863							
	Axis	-11.0	44.0	-4.0					
FR1 n13	SAR (W/kg)	0.85							
	Axis	-12.0	50.0	-3.6					
FR1 n14	SAR (W/kg)	0.827							
	Axis	-13.0	43.0	-5.0					
FR1 n26(5)	SAR (W/kg)	0.928							
	Axis	-14.4	40.6	-4.1					
FR1 n30	SAR (W/kg)	0.274			1.281				
	Axis	-12.8	69.6	-3.9	-8.4	-53.0	-4.1		
FR1 n71	SAR (W/kg)	0.864							
	Axis	-10.0	53.2	-3.5					
FR1 n41(38)	SAR (W/kg)	0.382			1.173				



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FR1 n48	Axis	-11.0	48.3	-4.0	-11.2	-61.2	-3.9			
	SAR (W/kg)				0.85			1.056		
FR1 n77(78)	Axis				-13.6	-56.0	-3.8	-10.0	-61.2	-4.1
	SAR (W/kg)				0.55			1.077		
	Axis				-15.2	-57.6	-3.9	-9.6	-69.6	-3.8
	SAR (W/kg)									

WLAN2.4GHz Ant7+11	SAR (W/kg)	0.374
Axis	-10	-53.6 -4.2

BT Ant7	SAR (W/kg)	0.665
Axis	-9.5	-71.1 -4.28

WLAN5GHz Ant6+1	SAR (W/kg)	1.114
Axis	-20	-60 -4.13

WLAN6GHz Ant6+1	SAR (W/kg)	0.25
Axis	-23	-65 -4.05

Back																			
Band		Ant0			Ant2			Ant3			Ant4			Ant6			Ant8		
GSM850	SAR (W/kg)	1.29																	
	Axis	-68.6	-66.0	3.5															
GSM1900	SAR (W/kg)							1.21			1.169								
	Axis							-27.3	85.6	-5.4	-62.4	53.8	-2.0						
WCDMA II	SAR (W/kg)							1.231			1.283								
	Axis							-30.4	82.3	-3.2	-60.6	49.4	-2.0						
WCDMA IV	SAR (W/kg)							1.16			1.254								
	Axis							-26.8	82.7	-3.0	-64.2	43.1	-1.8						
WCDMA V	SAR (W/kg)	1.234																	
	Axis	-70.5	-59.6	-3.4															
LTE Band 7	SAR (W/kg)	1.032			1.293			1.174			1.274								
	Axis	-64.2	-62.5	-2.5	-21.0	-84.2	-1.4	-28.4	85.0	-5.2	-71.7	42.6	-2.6						
LTE Band 12(17)	SAR (W/kg)	0.886																	
	Axis	-61.2	-60.1	-5.4															
LTE Band 13	SAR (W/kg)	0.867																	
	Axis	-59.5	-58.9	-3.9															
LTE Band 14	SAR (W/kg)	1.288																	
	Axis	-59.9	-60.1	-4.1															
LTE Band 25(2)	SAR (W/kg)	1.29			1.298			1.298			1.274								
	Axis	-60.1	-68.1	-4.4	-19.0	-81.6	-2.5	-27.5	81.3	-1.4	-71.9	48.2	-4.1						
LTE Band 26(5)	SAR (W/kg)	1.293																	
	Axis	-56.7	-63.8	-0.7															
LTE Band 30	SAR (W/kg)	1.294			1.291			0.918			1.27								
	Axis	-58.7	-74.0	-3.2	-21.2	-79.5	-2.6	-26.1	84.1	-3.2	-72.8	47.4	-5.1						
LTE Band 66(4)	SAR (W/kg)	1.288			1.273			1.145			1.272								
	Axis	-60.0	-66.4	-2.4	-17.2	-81.4	-4.6	-29.6	84.1	-5.7	-73.7	43.4	-4.4						
LTE Band 71	SAR (W/kg)	1.041																	
	Axis	-54.3	-63.6	-0.5															
LTE Band 41	SAR (W/kg)	1.025			1.294			1.193			1.294								
	Axis	-57.0	-57.9	-2.1	-13.1	-79.5	-2.1	-31.8	81.1	-4.5	-78.2	40.2	-2.8						
LTE Band 42	SAR (W/kg)				1.299						1.281			1.295			1.204		
	Axis				-23.6	-81.4	-3.5				-75.5	48.0	-5.2	-55.2	71.7	-1.9	-21.0	77.1	-2.0
LTE Band 43	SAR (W/kg)				1.275						1.293			1.285			1.127		
	Axis				-25.0	-78.5	-5.0				-72.2	50.4	-4.4	-56.7	72.1	-3.3	-20.7	81.5	-1.5
LTE Band 48	SAR (W/kg)				1.295						1.287			1.286			1.128		
	Axis				-23.9	-79.8	-2.5				-69.3	44.3	-2.7	-54.1	74.5	-3.1	-20.9	81.7	-1.6
FR1 n7	SAR (W/kg)	1.258			0.838			1.292			1.288								



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	Axis	-61.1	-70.2	-0.7	-17.7	-76.1	-1.1	-29.4	78.2	-2.4	-73.0	49.8	-1.5						
FR1 n12	SAR (W/kg)	1.289																	
	Axis	-62.2	-74.0	-1.3															
FR1 n13	SAR (W/kg)	1.279																	
	Axis	-64.4	-53.4	-3.9															
FR1 n14	SAR (W/kg)	1.282																	
	Axis	-60.0	-54.2	0.4															
FR1 n25(2)	SAR (W/kg)				1.292			1.296											
	Axis				-19.7	-73.8	-2.7	-31.2	83.5	-3.2									
FR1 n26(5)	SAR (W/kg)	1.289																	
	Axis	-56.3	-58.1	-2.3															
FR1 n30	SAR (W/kg)	1.287			1.277			1.278			1.28								
	Axis	-73.3	-75.3	-2.7	-20.9	-82.8	-3.5	-32.7	84.0	-3.0	-69.4	52.2	-2.5						
FR1 n66	SAR (W/kg)				1.282			1.275											
	Axis				-20.3	-84.0	-2.0	-33.1	81.8	-1.5									
FR1 n70	SAR (W/kg)				1.294			1.287											
	Axis				-17.9	-75.7	-1.8	-33.3	84.6	-2.4									
FR1 n71	SAR (W/kg)	0.733																	
	Axis	-66.2	-64.8	-8.1															
FR1 n41(38)	SAR (W/kg)	0.621			1.288			1.169			1.291								
	Axis	-71.9	-72.0	-4.1	-20.9	-78.4	-1.8	-30.4	81.5	-4.4	-74.6	53.1	-1.6						
FR1 n48	SAR (W/kg)				1.288						1.277			1.278			1.287		
	Axis				-18.7	-72.6	-3.5				-70.4	48.0	-1.5	-57.6	71.4	-2.3	-18.9	78.5	-1.5
FR1 n77(78)	SAR (W/kg)				1.222						1.276			1.146			0.715		
	Axis				-18.6	-82.3	-4.7				-71.5	45.8	-2.4	-62.1	75.4	-3.3	-18.7	79.6	-4.4

WLAN2.4G Hz Ant7+11	SAR (W/kg)	1.3 8		
	Axis	-31.2	61.8	-7.1 1

BT Ant 7	SAR (W/kg)	0.94 2		
	Axis	-80	81.2	-6.3

NF C	SAR (W/kg)	0.03 3		
	Axis	-21.3	-20.6	-3.9

WLAN5G Hz Ant6+1	SAR (W/kg)	1.11 6		
	Axis	-62.5	43	-6.8 1

BT Ant1	SAR (W/kg)	1.22 4		
	Axis	-32	59.6	-7.0 5

WLAN6G Hz Ant6+1	SAR (W/kg)	0.71 1		
	Axis	-62.2	47	-6.3 1

Extremity

Back									
Band		Ant0	Ant2	Ant3	Ant4	Ant6	Ant8	Ant7+11	Ant6+1
GSM850	SAR (W/kg)								
	Axis								
GSM1900	SAR (W/kg)			2.587					
	Axis			-2.7	81.0	-2.96			
WCDMA II	SAR (W/kg)			3.152		3.105			
	Axis			-2.8	81.0	-2.96	-40.5	77.3	-3.18
WCDMA IV	SAR (W/kg)			3.16		3.154			
	Axis			-2.9	80.9	-2.98	-40.7	78.2	-3.18
WCDMA V	SAR (W/kg)	1.350							
	Axis	-36.5	-82.2	-2.96					
LTE Band 7	SAR	2.893		2.727		3.005		3.013	



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NFC	SAR (W/kg)	0.012		
	Axis	-14.6	-27.6	-3.22

		Right Side					
Band		Ant0			Ant4		
GSM850	SAR (W/kg)						
	Axis						
GSM1900	SAR (W/kg)						
	Axis						
WCDMA II	SAR (W/kg)				2.899		
	Axis				-8.3	-59.6	-3.7
WCDMA IV	SAR (W/kg)				2.402		
	Axis				-10.3	-67.2	-1.1
WCDMA V	SAR (W/kg)						
	Axis						
LTE Band 7	SAR (W/kg)	2.161			2.654		
	Axis	-4.5	58.8	-3.20	-7.6	-66.7	-3.8
LTE Band 12(17)	SAR (W/kg)						
	Axis						
LTE Band 13	SAR (W/kg)						
	Axis						
LTE Band 14	SAR (W/kg)						
	Axis						
LTE Band 25(2)	SAR (W/kg)	1.571			2.553		
	Axis	-10.5	68.4	-3.09	-9.0	-58.0	-3.1
LTE Band 26(5)	SAR (W/kg)						
	Axis						
LTE Band 30	SAR (W/kg)				2.267		
	Axis				-8.7	-65.4	-1.3
LTE Band 66(4)	SAR (W/kg)	1.868			2.42		
	Axis	-10.5	65.3	-3.09	-9.6	-65.5	-2.9
LTE Band 71	SAR (W/kg)						
	Axis						
LTE Band 41	SAR (W/kg)	1.565			2.169		
	Axis	-6.2	59.0	-3.19	-8.0	-67.1	-3.0
LTE Band 42	SAR (W/kg)						
	Axis						
LTE Band 43	SAR (W/kg)						
	Axis						
LTE Band 48	SAR (W/kg)						
	Axis						

FR1 n7	SAR (W/kg)	1.508			2.188		
	Axis	-5.7	59.1	-3.12	-8.0	-64.7	-4.7
FR1 n12	SAR (W/kg)						
	Axis						
FR1 n13	SAR (W/kg)						
	Axis						
FR1 n14	SAR (W/kg)						
	Axis						
FR1 n26(5)	SAR (W/kg)						
	Axis						
FR1 n30	SAR (W/kg)						
	Axis						
FR1 n71	SAR (W/kg)						
	Axis						
FR1 n41(38)	SAR (W/kg)				2.368		
	Axis				-6.8	-62.9	-1.8
FR1 n48	SAR (W/kg)				1.106		
	Axis				-2.0	-60.3	-1.0
FR1 n77(78)	SAR (W/kg)				1.365		
	Axis				-1.4	-65.2	-1.4

17.11 Volume Scan Result

General Note:

- When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY6 volume scan postprocessing procedures to determine the 1-g SAR for the aggregate SAR distribution.
- The following test procedure is based on KDB 865664 D01:
 - Other than a larger measurement volume to enclose all antennas and radiating structures of the test device, the measurement requirements of an enlarged zoom scan are the same as those required by a normal zoom scan.
 - All simultaneous transmitting antennas and radiating structures must be included in the enlarged zoom scan measurement region projected onto the phantom.
 - Grid setting is used finer resolution in all different frequency bands.
 - Scan range is capturing enough wide for both SAR distribution.
 - Perform enlarged zoom scan (Volume scan) on the co-located antenna pair to determine 1g/10g aggregate SAR.
 - The SPLSR hotspot combination procedure (Hybrid SPLSR) allows for the aggregate SAR distribution of a collocated antenna pair—either obtained from a small enlarged zoom scan or through the algebraic summation of SAR values. This approach may also be considered for simultaneous transmission analysis.
- To extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY6= Combined Multi-TX zoom scan SAR.
- During multi-TX SAR combination, the SAR scaling factors were input into the SEMCAD X software to account for tune-up tolerance.
- The detailed small enlarged zoom scan SAR Result Plot is in the appendix B.

Case No	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Reported 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Combined 1g SAR (W/kg)
1	LTE Band 12	10M	QPSK	1	0	Right Side	0mm	Ant 0	23095	707.5	1.286	2.57	1.420
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 4	21350	2560	1.286		



18. Supplemental Tuner Tests Results

General Note:

1. This device implements impedance tuner antenna tuning techniques, and the number of supported tune codes is different for each frequency band as shown:
 - a. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 2/4/5/7/12/13/14/17/25/26/66/71 and 5GNR n5/7/12/13/14/26/71/38 for ANT0.
 - b. This device implements impedance tuner (144 states) antenna tuning techniques in the LTE Band 2/4/7/25/66/38/41 and 5GNR n2/7/25/66/38/41 for ANT2.
2. According to April 2015 TCB workshop, SAR testing for overlapping LTE bands can be reduced, and 5GNR bands are similar to LTE bands:
 - a. LTE B17 / B5 / B4 / B2 / B38 SAR test was covered by LTE B12 / B26 / B66 / B25 / B41;
 - b. 5GNR n5 / n2 / n38 SAR test was covered by 5GNR n26 / n25 / n41;
3. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
4. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).
5. Per KDB388624 D02v18r08, for each air interface, exposure condition, and antenna that supports dynamic antenna tuning (DAT), the following procedure shall be followed:
 - 5.1 An area scan is performed with the DUT positioned for the exposure condition with auto-tuner enabled to determine the peak SAR location.
 - 5.2 A single-point SAR measurement (i.e., time sweep) is performed at the peak SAR location of step 5.1 (that is, with auto-tuner enabled). The auto-tuner state shall be recorded, after verifying that it is stable. If fluctuations occur, the scan procedure can be restarted, or the state with the highest SAR needs to be recorded.
 - 5.3 Without moving the probe, or introducing any other perturbation, the auto-tuner shall be disabled, and two other adjacent tune states shall be chosen by increasing and decreasing the state identification number by 1.
 - 5.4 A single point SAR measurement is then performed on both chosen adjacent states and compared with the value of step 5.2. The measured SAR for auto-tuner disabled is expected to be less than or equal to the recorded SAR of step 5.2.
 - a. If the measured SAR is higher beyond documented tolerance, then the auto-tuning feature is not working as intended and is not suitable for compliance. DAT functionality shall be removed or adjusted by the manufacturer.
 - b. If the measured SAR is higher than the value of step 5.2 but within tolerance, the next adjacent state(s) shall be chosen and the measure repeated until a lower SAR value can be shown; otherwise, the DAT is considered inoperative and shall be removed or adjusted by the manufacturer.
 - 5.5 Repeat step 5.2 with auto-tuning enabled as a test for variability within tolerance: the previous measured value in step 5.2 shall be recovered. If the measured SAR is outside the expected tolerance, then the auto-tuning feature is considered not working as intended and not suitable for compliance. DAT functionality shall be removed or adjusted by the manufacturer
6. SAR is measured according to required procedures for each mode of operation with the dynamic tuner active, allowing the DUT to automatically tune and find the best impedance match. The auto-tune state determined by device during normal SAR measurement shall be verified and listed in the reported SAR results. This process is based on single point SAR evaluations to verify that the conditions leading to the largest SAR have been captured. The SAR probe shall remain stationary for the entire series of measurements. The functionality of the tuner configurations is checked to ensure that the tuned state corresponds to the maximum SAR for that particular transmission configuration.
7. If any single-point SAR measurement result is 1.4 W/kg for 1gSAR or 3.5 W/kg for 10gSAR, then all tune states for that particular combination of air interface, exposure condition, and antenna selection shall be evaluated with single-point SAR measurements.
8. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix H.

Test Engineer : Jordar Jhuang, Teddy Chang, Andy Chiang, Kevin Guo and Howard Zhao

19. Uncertainty Assessment

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

Declaration of Conformity:

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

Comments and Explanations:

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

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

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

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

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

- standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- k is the coverage factor

Standard Uncertainty for Assumed Distribution

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

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a



coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

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

Applicable for SAR Measurements:

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

Applicable for Power Density Measurements:

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

20. References

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- [19] FCC KDB 484596 D01 v03, "Test Reductions Via Data Referencing", Mar. 2025

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR and PD Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table

Appendix G. Power reduction mechanism verification

Appendix H. Supplemental Tuner Head & Body SAR Results

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