



FCC SAR Test Report

LTE Band 66															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132072	132322	132572				Channel		132047	132322	132597	
		Frequency(MHz)		1720	1745	1770				Frequency(MHz)		1717.5	1745	1772.5	
20M	QPSK	1	0	23.91	24.19	24.03	0	15M	QPSK	1	0	23.50	23.69	23.59	0
		1	50	23.86	24.15	24.02	0			1	37	23.42	23.71	23.59	0
		1	99	23.82	24.15	23.98	0			1	74	23.40	23.06	23.57	0
		50	0	23.07	23.27	23.23	1			36	0	22.61	22.87	22.78	1
		50	25	23.01	23.12	23.15	1			36	19	22.60	22.86	22.73	1
		50	50	22.87	23.08	23.03	1			36	39	22.39	22.94	22.56	1
	16QAM	100	0	23.04	23.17	23.16	1			75	0	22.63	22.93	22.72	1
		1	0	23.07	23.39	23.24	1		16QAM	1	0	22.64	23.05	22.83	1
		1	50	23.10	23.47	23.24	1			1	37	22.66	22.97	22.79	1
		1	99	23.02	23.40	23.21	1			1	74	22.56	21.93	22.79	1
		50	0	21.98	22.34	22.07	2			36	0	21.56	21.78	21.59	2
		50	25	21.85	22.23	22.04	2			36	19	21.37	21.80	21.60	2
	64QAM	50	50	21.86	22.22	21.98	2			36	39	21.43	21.78	21.52	2
		100	0	21.98	22.26	22.09	2			75	0	21.57	21.81	21.64	2
		1	0	21.88	22.25	22.06	2		64QAM	1	0	21.42	21.75	21.63	2
		1	50	21.88	22.20	21.98	2			1	37	21.46	21.82	21.51	2
		1	99	21.85	22.24	21.98	2			1	74	21.39	20.99	21.50	2
		50	0	21.19	21.47	21.33	3			36	0	20.78	20.93	20.91	3
		50	25	21.03	21.39	21.17	3			36	19	20.56	20.93	20.69	3
		50	50	21.04	21.37	21.20	3			36	39	20.62	21.03	20.79	3
		100	0	21.08	21.44	21.17	3			75	0	20.66	20.69	20.69	3
BW	MCS Index	Channel		132022	132322	132622	3GPP MPR (dB)	BW	MCS Index	Channel		131997	132322	132647	3GPP MPR (dB)
		Frequency(MHz)		1715	1745	1775				Frequency(MHz)		1712.5	1745	1777.5	
10M	QPSK	1	0	23.43	23.74	23.59	0	5M	QPSK	1	0	23.46	23.74	23.56	0
		1	24	23.44	23.74	23.54	0			1	12	23.44	23.73	23.54	0
		1	49	23.34	23.70	23.54	0			1	24	23.37	23.74	23.50	0
		25	0	22.64	23.05	22.77	1			12	0	22.63	23.02	22.78	1
		25	12	22.59	22.87	22.68	1			12	6	22.53	22.87	22.74	1
		25	25	22.41	22.86	22.55	1			12	13	22.43	22.87	22.58	1
	16QAM	50	0	22.63	22.89	22.74	1			25	0	22.58	22.92	22.74	1
		1	0	22.60	22.93	22.76	1		16QAM	1	0	22.60	22.97	22.79	1
		1	24	22.67	23.05	22.78	1			1	12	22.62	23.02	22.82	1
		1	49	22.60	22.95	22.74	1			1	24	22.60	22.98	22.73	1
		25	0	21.52	21.92	21.59	2			12	0	21.50	21.86	21.61	2
		25	12	21.43	21.82	21.56	2			12	6	21.39	21.77	21.62	2
	64QAM	25	25	21.38	21.77	21.54	2			12	13	21.39	21.80	21.53	2
		50	0	21.56	21.85	21.61	2			25	0	21.52	21.81	21.62	2
		1	0	21.40	21.80	21.62	2		64QAM	1	0	21.41	21.83	21.61	2
		1	24	21.45	21.78	21.52	2			1	12	21.40	21.74	21.56	2
		1	49	21.43	21.79	21.51	2			1	24	21.37	21.82	21.57	2
		25	0	20.73	21.05	20.85	3			12	0	20.75	20.99	20.88	3
		25	12	20.62	20.91	20.75	3			12	6	20.55	20.97	20.76	3
		25	25	20.59	20.91	20.72	3			12	13	20.60	20.89	20.75	3
		50	0	20.67	21.02	20.71	3			25	0	20.62	21.01	20.75	3
BW	MCS Index	Channel		131987	132322	132657	3GPP MPR (dB)	BW	MCS Index	Channel		131979	132322	132665	3GPP MPR (dB)
		Frequency(MHz)		1711.5	1745	1778.5				Frequency(MHz)		1710.7	1745	1779.3	
3M	QPSK	1	0	23.85	24.13	24.01	0	1.4M	QPSK	1	0	23.83	24.14	23.99	0
		1	7	23.79	24.13	23.97	0			1	2	23.83	24.13	23.96	0
		1	14	23.76	24.10	23.91	0			1	5	23.80	24.10	23.91	0
		8	0	23.00	23.45	23.18	1			3	0	24.01	24.05	24.15	1
		8	3	22.93	23.26	23.13	1			3	1	24.00	24.04	24.13	1
		8	7	22.79	23.26	23.02	1			3	3	23.82	24.12	23.95	1
	16QAM	15	0	23.00	23.29	23.11	1			6	0	23.03	23.35	23.10	1
		1	0	22.99	23.37	23.23	1		16QAM	1	0	23.02	23.34	23.17	1
		1	7	23.05	23.43	23.19	1			1	2	23.08	23.45	23.16	1
		1	14	23.00	23.39	23.13	1			1	5	22.97	23.39	23.13	1
		8	0	21.90	22.29	22.03	2			3	0	22.94	23.29	23.02	2
		8	3	21.82	22.21	21.98	2			3	1	22.77	23.18	23.03	2
	64QAM	8	7	21.84	22.17	21.91	2			3	3	22.82	23.21	22.93	2
		15	0	21.92	22.24	22.01	2			6	0	21.92	22.21	22.07	2
		1	0	21.87	22.17	22.04	2		64QAM	1	0	21.81	22.23	22.01	2
		1	7	21.83	22.14	21.90	2			1	2	21.80	22.15	21.96	2
		1	14	21.84	22.22	21.92	2			1	5	21.83	22.22	21.90	2
		8	0	21.14	21.40	21.31	3			3	0	22.11	22.39	22.27	3
		8	3	21.01	21.38	21.09	3			3	1	21.97	22.33	22.15	3
		8	7	20.96	21.32	21.16	3			3	3	21.99	22.36	22.12	3
		15	0	21.06	21.43	21.09	3			6	0	21.04	21.39	21.12	3

FCC SAR Test Report

< WWAN Reduced Power for Body>

Band	WCDMA Band II			WCDMA Band IV			3GPP MPR (dB)
Channel	9262	9400	9538	1312	1413	1513	
Frequency (MHz)	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	
RMC 12.2K	22.15	22.19	22.08	18.15	17.85	17.94	-
HSDPA Subtest-1	21.17	21.17	21.09	17.22	16.90	16.96	0
HSDPA Subtest-2	21.16	21.18	21.04	17.21	16.85	16.97	0
HSDPA Subtest-3	20.71	20.69	20.61	16.71	16.47	16.50	0.5
HSDPA Subtest-4	20.63	20.73	20.56	16.75	16.43	16.54	0.5
DC-HSDPA Subtest-1	21.18	21.20	21.11	17.19	16.85	16.98	0
DC-HSDPA Subtest-2	21.13	21.13	21.06	17.17	16.85	16.91	0
DC-HSDPA Subtest-3	21.68	21.70	21.56	16.71	16.42	16.49	0.5
DC-HSDPA Subtest-4	21.65	21.70	21.57	16.68	16.36	16.42	0.5
HSUPA Subtest-1	21.26	21.28	21.14	17.29	16.93	17.06	0
HSUPA Subtest-2	19.29	19.27	19.20	15.36	14.99	15.09	2
HSUPA Subtest-3	20.32	20.29	20.19	16.35	16.06	16.18	1
HSUPA Subtest-4	19.29	19.34	19.26	15.37	15.00	15.10	2
HSUPA Subtest-5	21.34	21.31	21.21	17.34	17.05	17.17	0



FCC SAR Test Report

LTE Band 2															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100				Channel		18675	18900	19125	
		Frequency(MHz)		1860	1880	1900				Frequency(MHz)		1857.5	1880	1902.5	
20M	QPSK	1	0	22.19	22.19	22.08	0	15M	QPSK	1	0	22.18	22.15	22.00	0
		1	50	22.14	22.10	22.04	0			1	37	22.10	22.07	21.98	0
		1	99	22.20	22.18	22.12	0			1	74	22.18	22.17	22.08	0
		50	0	21.27	21.23	21.24	1			36	0	21.21	21.18	21.23	1
		50	25	21.18	21.16	21.08	1			36	19	21.17	21.14	21.03	1
		50	50	21.05	21.01	21.03	1			36	39	20.97	20.94	21.01	1
	16QAM	100	0	21.09	21.09	21.03	1			75	0	21.08	21.05	21.00	1
		1	0	20.64	20.59	20.52	1		16QAM	1	0	20.61	20.58	20.46	1
		1	50	20.52	20.50	20.48	1			1	37	20.48	20.45	20.46	1
		1	99	20.82	20.75	20.74	1			1	74	20.76	20.73	20.71	1
		50	0	20.26	20.29	20.26	2			36	0	20.24	20.21	20.25	2
		50	25	20.14	20.07	20.06	2			36	19	20.06	20.03	20.01	2
	50	50	20.20	20.20	20.17	2	36			39	20.17	20.14	20.15	2	
	64QAM	100	0	20.20	20.21	20.10	2			75	0	20.19	20.16	20.02	2
		1	0	20.11	20.05	20.03	2		64QAM	1	0	20.05	20.02	19.99	2
		1	50	20.01	20.03	19.96	2			1	37	19.99	19.96	19.91	2
		1	99	20.32	20.31	20.31	2			1	74	20.26	20.23	20.29	2
		50	0	19.34	19.24	19.21	3			36	0	19.33	19.22	19.13	3
		50	25	19.11	19.09	19.06	3			36	19	19.04	19.01	19.00	3
		50	50	19.37	19.33	19.27	3			36	39	19.35	19.32	19.23	3
		100	0	19.34	19.37	19.34	3			75	0	19.32	19.29	19.33	3
BW	MCS Index	Channel		18650	18900	19150	3GPP MPR (dB)	BW	MCS Index	Channel		18625	18900	19175	3GPP MPR (dB)
		Frequency(MHz)		1855	1880	1905				Frequency(MHz)		1852.5	1880	1907.5	
10M	QPSK	1	0	22.11	22.15	22.03	0	5M	QPSK	1	0	22.14	22.12	22.03	0
		1	24	22.12	22.02	22.03	0			1	12	22.12	22.02	22.02	0
		1	49	22.12	22.14	22.07	0			1	24	22.15	22.10	22.11	0
		25	0	21.24	21.17	21.22	1			12	0	21.23	21.18	21.19	1
		25	12	21.16	21.09	21.03	1			12	6	21.10	21.15	21.03	1
		25	25	20.99	20.93	21.01	1			12	13	21.01	20.96	21.02	1
	16QAM	50	0	21.08	21.07	20.95	1			25	0	21.03	21.07	20.98	1
		1	0	20.57	20.51	20.46	1		16QAM	1	0	20.57	20.54	20.50	1
		1	24	20.49	20.44	20.46	1			1	12	20.44	20.48	20.43	1
		1	49	20.80	20.68	20.69	1			1	24	20.80	20.67	20.72	1
		25	0	20.20	20.21	20.24	2			12	0	20.18	20.23	20.18	2
		25	12	20.12	19.99	20.05	2			12	6	20.08	20.05	20.00	2
	25	25	20.12	20.16	20.12	2	12			13	20.13	20.15	20.15	2	
	64QAM	50	0	20.18	20.13	20.09	2			25	0	20.14	20.14	20.05	2
		1	0	20.03	20.01	19.98	2		64QAM	1	0	20.04	20.00	20.01	2
		1	24	19.98	19.97	19.94	2			1	12	19.93	20.01	19.90	2
		1	49	20.30	20.24	20.26	2			1	24	20.24	20.30	20.29	2
		25	0	19.28	19.16	19.19	3			12	0	19.30	19.19	19.13	3
25		12	19.10	19.07	18.98	3	12	6		19.03	19.08	19.04	3		
25	25	19.32	19.25	19.21	3	12	13	19.33		19.28	19.19	3			
50	0	19.33	19.31	19.32	3	25	0	19.28		19.35	19.31	3			
BW	MCS Index	Channel		18615	18900	19185	3GPP MPR (dB)	BW	MCS Index	Channel		18607	18900	19193	3GPP MPR (dB)
		Frequency(MHz)		1851.5	1880	1908.5				Frequency(MHz)		1850.7	1880	1909.3	
3M	QPSK	1	0	22.13	22.17	22.02	0	1.4M	QPSK	1	0	22.11	22.15	22.03	0
		1	7	22.07	22.05	22.02	0			1	2	22.11	22.04	22.02	0
		1	14	22.14	22.11	22.07	0			1	5	22.18	22.11	22.07	0
		8	0	21.20	21.18	21.22	1			3	0	22.21	22.15	22.22	1
		8	3	21.10	21.14	21.02	1			3	1	22.17	22.14	22.00	1
		8	7	20.97	21.00	21.01	1			3	3	22.00	21.93	21.97	1
	16QAM	15	0	21.05	21.04	20.95	1			6	0	21.08	21.03	21.01	1
		1	0	20.56	20.58	20.50	1		16QAM	1	0	20.59	20.52	20.47	1
		1	7	20.47	20.45	20.44	1			1	2	20.50	20.42	20.46	1
		1	14	20.80	20.67	20.73	1			1	5	20.77	20.67	20.73	1
		8	0	20.18	20.25	20.21	2			3	0	20.72	20.74	20.71	2
		8	3	20.11	20.01	20.04	2			3	1	20.56	20.56	20.51	2
	64QAM	8	7	20.18	20.13	20.12	2			3	3	20.66	20.65	20.66	2
		15	0	20.14	20.13	20.08	2			6	0	20.14	20.19	20.05	2
		1	0	20.10	20.03	19.95	2		64QAM	1	0	20.04	20.00	20.01	2
		1	7	19.96	19.95	19.90	2			1	2	19.93	20.01	19.91	2
		1	14	20.31	20.25	20.29	2			1	5	20.30	20.23	20.29	2
		8	0	19.29	19.22	19.14	3			3	0	20.26	20.18	20.13	3
8	3	19.09	19.01	19.05	3	3	1	20.05		20.07	20.00	3			
8	7	19.29	19.29	19.22	3	3	3	20.32		20.25	20.26	3			
15	0	19.32	19.29	19.33	3	6	0	19.30		19.32	19.29	3			

**FCC SAR Test Report**

LTE Band 4															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300				Channel		20025	20175	20325	
		Frequency(MHz)		1720	1732.5	1745				Frequency(MHz)		1717.5	1732.5	1747.5	
20M	QPSK	1	0	18.69	18.54	19.19	0	15M	QPSK	1	0	18.68	18.50	19.11	0
		1	50	18.12	18.01	18.67	0			1	37	18.08	17.98	18.61	0
		1	99	18.19	18.08	18.74	0			1	74	18.17	18.07	18.70	0
		50	0	17.79	17.68	18.41	1			36	0	17.73	17.63	18.40	1
		50	25	17.41	17.28	17.94	1			36	19	17.40	17.26	17.89	1
		50	50	17.27	17.16	17.90	1			36	39	17.19	17.09	17.88	1
	16QAM	100	0	17.59	17.44	18.14	1		75	0	17.58	17.40	18.11	1	
		1	0	18.27	18.17	18.31	1		1	0	18.24	18.16	18.25	1	
		1	50	17.49	17.36	18.08	1		1	37	17.45	17.31	18.06	1	
		1	99	17.46	17.38	18.06	1		1	74	17.40	17.36	18.03	1	
		50	0	16.85	16.67	17.43	2		36	0	16.83	16.59	17.42	2	
		50	25	16.23	16.15	16.83	2		36	19	16.15	16.11	16.78	2	
	64QAM	50	50	16.31	16.16	16.89	2		36	39	16.28	16.10	16.87	2	
		100	0	16.59	16.43	17.09	2		75	0	16.58	16.38	17.01	2	
		1	0	17.21	17.12	17.30	2		1	0	17.15	17.09	17.26	2	
		1	50	16.22	16.05	16.76	2		1	37	16.20	15.98	16.71	2	
		1	99	16.46	16.32	17.07	2		1	74	16.40	16.24	17.05	2	
		50	0	16.00	15.87	16.50	3		36	0	15.99	15.85	16.42	3	
		50	25	15.46	15.33	16.04	3		36	19	15.39	15.25	15.98	3	
		50	50	15.51	15.40	16.06	3		36	39	15.49	15.39	16.02	3	
100	0	15.76	15.58	16.34	3	75	0	15.74	15.50	16.33	3				
BW	MCS Index	Channel		20000	20175	20350	3GPP MPR (dB)	BW	MCS Index	Channel		19975	20175	20375	3GPP MPR (dB)
		Frequency(MHz)		1715	1732.5	1750				Frequency(MHz)		1712.5	1732.5	1752.5	
10M	QPSK	1	0	18.61	18.50	19.14	0	5M	QPSK	1	0	18.64	18.47	19.14	0
		1	24	18.10	17.93	18.66	0			1	12	18.10	17.93	18.65	0
		1	49	18.11	18.04	18.69	0			1	24	18.14	18.00	18.73	0
		25	0	17.76	17.62	18.39	1			12	0	17.75	17.63	18.36	1
		25	12	17.39	17.21	17.89	1			12	6	17.33	17.27	17.89	1
		25	25	17.21	17.08	17.88	1			12	13	17.23	17.11	17.89	1
	16QAM	50	0	17.58	17.42	18.06	1		25	0	17.53	17.42	18.09	1	
		1	0	18.20	18.09	18.25	1		1	0	18.20	18.12	18.29	1	
		1	24	17.46	17.30	18.06	1		1	12	17.41	17.34	18.03	1	
		1	49	17.44	17.31	18.01	1		1	24	17.44	17.30	18.04	1	
		25	0	16.79	16.59	17.41	2		12	0	16.77	16.61	17.35	2	
		25	12	16.21	16.07	16.82	2		12	6	16.17	16.13	16.77	2	
	64QAM	25	25	16.23	16.12	16.84	2		12	13	16.24	16.11	16.87	2	
		50	0	16.57	16.35	17.08	2		25	0	16.53	16.36	17.04	2	
		1	0	17.13	17.08	17.25	2		1	0	17.14	17.07	17.28	2	
		1	24	16.19	15.99	16.74	2		1	12	16.14	16.03	16.70	2	
		1	49	16.44	16.25	17.02	2		1	24	16.38	16.31	17.05	2	
		25	0	15.94	15.79	16.48	3		12	0	15.96	15.82	16.42	3	
3M	QPSK	25	12	15.45	15.31	15.96	3	12	6	15.38	15.32	16.02	3		
		25	25	15.46	15.32	16.00	3	12	13	15.47	15.35	15.98	3		
		50	0	15.75	15.52	16.32	3	25	0	15.70	15.56	16.31	3		
		1	0	18.63	18.52	19.13	0	1.4M	QPSK	1	0	18.61	18.50	19.14	0
		1	7	18.05	17.96	18.65	0			1	2	18.09	17.95	18.65	0
		1	14	18.13	18.01	18.69	0			1	5	18.17	18.01	18.69	0
8	0	17.72	17.63	18.39	1	3	0			18.73	18.60	19.09	1		
8	3	17.33	17.26	17.88	1	3	1			18.40	18.26	18.86	1		
8	7	17.19	17.15	17.88	1	3	3			18.22	18.08	18.84	1		
16QAM	15	0	17.55	17.39	18.06	1	6		0	17.58	17.38	18.12	1		
	1	0	18.19	18.16	18.29	1	1		0	18.22	18.10	18.26	1		
	1	7	17.44	17.31	18.04	1	1		2	17.47	17.28	18.06	1		
	1	14	17.44	17.30	18.05	1	1		5	17.41	17.30	18.05	1		
	8	0	16.77	16.63	17.38	2	3		0	17.81	17.62	18.38	2		
	8	3	16.20	16.09	16.81	2	3		1	17.15	17.14	17.78	2		
64QAM	8	7	16.29	16.09	16.84	2	3		3	17.27	17.11	17.88	2		
	15	0	16.53	16.35	17.07	2	6		0	16.53	16.41	17.04	2		
	1	0	17.20	17.10	17.22	2	64QAM		1	0	17.14	17.07	17.28	2	
	1	7	16.17	15.97	16.70	2			1	2	16.14	16.03	16.71	2	
	1	14	16.45	16.26	17.05	2			1	5	16.44	16.24	17.05	2	
	8	0	15.95	15.85	16.43	3			3	0	16.92	15.81	16.42	3	
8	3	15.44	15.25	16.03	3	3		1	16.40	15.31	15.98	3			
8	7	15.43	15.36	16.01	3	3		3	16.46	15.32	16.05	3			
15	0	15.74	15.50	16.33	3	6		0	15.72	15.53	16.29	3			



FCC SAR Test Report

LTE Band 7															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350				Channel		20825	21100	21375	
		Frequency(MHz)		2510	2535	2560				Frequency(MHz)		2507.5	2535	2562.5	
20M	QPSK	1	0	18.37	18.70	18.45	0	15M	QPSK	1	0	18.36	18.66	18.37	0
		1	50	17.75	18.12	17.88	0			1	37	17.71	18.09	17.82	0
		1	99	17.90	18.27	18.03	0			1	74	17.88	18.26	17.99	0
		50	0	17.33	17.70	17.53	1			36	0	17.27	17.65	17.52	1
		50	25	16.92	17.27	17.03	1			36	19	16.91	17.25	16.98	1
		50	50	16.79	17.16	17.00	1			36	39	16.71	17.09	16.98	1
	16QAM	100	0	17.13	17.46	17.26	1			75	0	17.12	17.42	17.23	1
		1	0	17.45	17.83	17.57	1		16QAM	1	0	17.42	17.82	17.51	1
		1	50	16.84	17.19	17.01	1			1	37	16.80	17.14	16.99	1
		1	99	16.94	17.34	17.12	1			1	74	16.88	17.32	17.09	1
		50	0	16.47	16.77	16.63	2			36	0	16.45	16.69	16.62	2
		50	25	15.93	16.33	16.11	2			36	19	15.85	16.29	16.06	2
	64QAM	50	50	15.92	16.25	16.08	2			36	39	15.89	16.19	16.06	2
		100	0	16.23	16.55	16.31	2			75	0	16.22	16.50	16.23	2
		1	0	16.22	16.61	16.39	2		64QAM	1	0	16.16	16.58	16.35	2
		1	50	15.95	16.26	16.07	2			1	37	15.93	16.19	16.02	2
		1	99	16.10	16.44	16.29	2			1	74	16.04	16.36	16.27	2
		50	0	15.08	15.43	15.16	3			36	0	15.07	15.41	15.08	3
		50	25	14.60	14.95	14.76	3			36	19	14.53	14.87	14.70	3
		50	50	14.45	14.82	14.58	3			36	39	14.43	14.81	14.54	3
		100	0	14.71	15.01	14.87	3			75	0	14.69	14.93	14.86	3
BW	MCS Index	Channel		20800	21100	21400	3GPP MPR (dB)	BW	MCS Index	Channel		20775	21100	21425	3GPP MPR (dB)
		Frequency(MHz)		2505	2535	2565				Frequency(MHz)		2502.5	2535	2567.5	
10M	QPSK	1	0	18.29	18.66	18.40	0	5M	QPSK	1	0	18.32	18.63	18.40	0
		1	24	17.73	18.04	17.87	0			1	12	17.73	18.04	17.86	0
		1	49	17.82	18.23	17.98	0			1	24	17.85	18.19	18.02	0
		25	0	17.30	17.64	17.51	1			12	0	17.29	17.65	17.48	1
		25	12	16.90	17.20	16.98	1			12	6	16.84	17.26	16.98	1
		25	25	16.73	17.08	16.98	1			12	13	16.75	17.11	16.99	1
	16QAM	50	0	17.12	17.44	17.18	1			25	0	17.07	17.44	17.21	1
		1	0	17.38	17.75	17.51	1		16QAM	1	0	17.38	17.78	17.55	1
		1	24	16.81	17.13	16.99	1			1	12	16.76	17.17	16.96	1
		1	49	16.92	17.27	17.07	1			1	24	16.92	17.26	17.10	1
		25	0	16.41	16.69	16.61	2			12	0	16.39	16.71	16.55	2
		25	12	15.91	16.25	16.10	2			12	6	15.87	16.31	16.05	2
	64QAM	25	25	15.84	16.21	16.03	2			12	13	15.85	16.20	16.06	2
		50	0	16.21	16.47	16.30	2			25	0	16.17	16.48	16.26	2
		1	0	16.14	16.57	16.34	2		64QAM	1	0	16.15	16.56	16.37	2
		1	24	15.92	16.20	16.05	2			1	12	15.87	16.24	16.01	2
		1	49	16.08	16.37	16.24	2			1	24	16.02	16.43	16.27	2
		25	0	15.02	15.35	15.14	3			12	0	15.04	15.38	15.08	3
		25	12	14.59	14.93	14.68	3			12	6	14.52	14.94	14.74	3
		25	25	14.40	14.74	14.52	3			12	13	14.41	14.77	14.50	3
		50	0	14.70	14.95	14.85	3			25	0	14.65	14.99	14.84	3



FCC SAR Test Report

LTE Band 66															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		132072	132322	132572				Channel		132047	132322	132597	
		Frequency(MHz)		1720	1745	1770				Frequency(MHz)		1717.5	1745	1772.5	
20M	QPSK	1	0	18.33	19.00	18.56	0	15M	QPSK	1	0	18.32	18.96	18.48	0
		1	50	17.57	18.28	17.85	0			1	37	17.53	18.25	17.79	0
		1	99	17.66	18.37	17.94	0			1	74	17.64	18.36	17.90	0
		50	0	17.42	18.13	17.77	1			36	0	17.36	18.08	17.76	1
		50	25	16.94	17.63	17.20	1			36	19	16.93	17.61	17.15	1
		50	50	16.90	17.61	17.26	1			36	39	16.82	17.54	17.24	1
	16QAM	100	0	17.15	17.82	17.43	1			75	0	17.14	17.78	17.40	1
		1	0	18.05	18.37	18.32	1		16QAM	1	0	18.02	18.36	18.26	1
		1	50	17.10	17.79	17.42	1			1	37	17.06	17.74	17.40	1
		1	99	17.05	17.79	17.38	1			1	74	16.99	17.77	17.35	1
		50	0	16.41	17.05	16.72	2			36	0	16.39	16.97	16.71	2
		50	25	15.82	16.56	16.15	2			36	19	15.74	16.52	16.10	2
	64QAM	50	50	15.90	16.57	16.21	2			36	39	15.87	16.51	16.19	2
		100	0	16.18	16.84	16.41	2			75	0	16.17	16.79	16.33	2
		1	0	17.11	17.34	17.23	2		64QAM	1	0	17.05	17.31	17.19	2
		1	50	16.19	16.84	16.46	2			1	37	16.17	16.77	16.41	2
		1	99	16.12	16.80	16.46	2			1	74	16.06	16.72	16.44	2
		50	0	15.46	16.15	15.69	3			36	0	15.45	16.13	15.61	3
		50	25	15.07	15.76	15.38	3			36	19	15.00	15.68	15.32	3
		50	50	15.14	15.85	15.42	3			36	39	15.12	15.84	15.38	3
		100	0	15.19	15.83	15.50	3			75	0	15.17	15.75	15.49	3
BW	MCS Index	Channel		132022	132322	132622	3GPP MPR (dB)	BW	MCS Index	Channel		131997	132322	132647	3GPP MPR (dB)
		Frequency(MHz)		1715	1745	1775				Frequency(MHz)		1712.5	1745	1777.5	
10M	QPSK	1	0	18.25	18.96	18.51	0	5M	QPSK	1	0	18.28	18.93	18.51	0
		1	24	17.55	18.20	17.84	0			1	12	17.55	18.20	17.83	0
		1	49	17.58	18.33	17.89	0			1	24	17.61	18.29	17.93	0
		25	0	17.39	18.07	17.75	1			12	0	17.38	18.08	17.72	1
		25	12	16.92	17.56	17.15	1			12	6	16.86	17.62	17.15	1
		25	25	16.84	17.53	17.24	1			12	13	16.86	17.56	17.25	1
	16QAM	50	0	17.14	17.80	17.35	1			25	0	17.09	17.80	17.38	1
		1	0	17.98	18.29	18.26	1		16QAM	1	0	17.98	18.32	18.30	1
		1	24	17.07	17.73	17.40	1			1	12	17.02	17.77	17.37	1
		1	49	17.03	17.72	17.33	1			1	24	17.03	17.71	17.36	1
		25	0	16.35	16.97	16.70	2			12	0	16.33	16.99	16.64	2
		25	12	15.80	16.48	16.14	2			12	6	15.76	16.54	16.09	2
	64QAM	25	25	15.82	16.53	16.16	2			12	13	15.83	16.52	16.19	2
		50	0	16.16	16.76	16.40	2			25	0	16.12	16.77	16.36	2
		1	0	17.03	17.30	17.18	2		64QAM	1	0	17.04	17.29	17.21	2
		1	24	16.16	16.78	16.44	2			1	12	16.11	16.82	16.40	2
		1	49	16.10	16.73	16.41	2			1	24	16.04	16.79	16.44	2
		25	0	15.40	16.07	15.67	3			12	0	15.42	16.10	15.61	3
		25	12	15.06	15.74	15.30	3			12	6	14.99	15.75	15.36	3
		25	25	15.09	15.77	15.36	3			12	13	15.10	15.80	15.34	3
		50	0	15.18	15.77	15.48	3			25	0	15.13	15.81	15.47	3
BW	MCS Index	Channel		131987	132322	132657	3GPP MPR (dB)	BW	MCS Index	Channel		131979	132322	132665	3GPP MPR (dB)
		Frequency(MHz)		1711.5	1745	1778.5				Frequency(MHz)		1710.7	1745	1779.3	
3M	QPSK	1	0	18.27	18.98	18.50	0	1.4M	QPSK	1	0	18.25	18.96	18.51	0
		1	7	17.50	18.23	17.83	0			1	2	17.54	18.22	17.83	0
		1	14	17.60	18.30	17.89	0			1	5	17.64	18.30	17.89	0
		8	0	17.35	18.08	17.75	1			3	0	18.36	18.95	18.75	1
		8	3	16.86	17.61	17.14	1			3	1	17.93	18.61	18.12	1
		8	7	16.82	17.60	17.24	1			3	3	17.85	18.53	18.20	1
	16QAM	15	0	17.11	17.77	17.35	1			6	0	17.14	17.76	17.41	1
		1	0	17.97	18.36	18.30	1		16QAM	1	0	18.00	18.30	18.27	1
		1	7	17.05	17.74	17.38	1			1	2	17.08	17.71	17.40	1
		1	14	17.03	17.71	17.37	1			1	5	17.00	17.71	17.37	1
		8	0	16.33	17.01	16.67	2			3	0	17.37	18.00	17.67	2
		8	3	15.79	16.50	16.13	2			3	1	16.74	17.55	17.10	2
	64QAM	8	7	15.88	16.50	16.16	2			3	3	16.86	17.52	17.20	2
		15	0	16.12	16.76	16.39	2			6	0	16.12	16.82	16.36	2
		1	0	17.10	17.32	17.15	2		64QAM	1	0	17.04	17.29	17.21	2
		1	7	16.14	16.76	16.40	2			1	2	16.11	16.82	16.41	2
		1	14	16.11	16.74	16.44	2			1	5	16.10	16.72	16.44	2
		8	0	15.41	16.13	15.62	3			3	0	16.38	17.09	16.61	3
		8	3	15.05	15.68	15.37	3			3	1	16.01	16.74	16.32	3
		8	7	15.06	15.81	15.37	3			3	3	16.09	16.77	16.41	3
		15	0	15.17	15.75	15.49	3			6	0	15.15	15.78	15.45	3

FCC SAR Test Report

WLAN / BT

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11b 1Mbps	1	2412	18.12
		6	2437	17.78
		11	2462	18.10
	802.11g 6Mbps	1	2412	15.12
		6	2437	14.64
		11	2462	15.16
	802.11n-HT20 MCS0	1	2412	14.26
		6	2437	13.92
		11	2462	13.42
	802.11n-HT40 MCS0	3	2422	13.84
		6	2437	13.68
		9	2452	13.54

Bluetooth	Mode	Channel	Frequency(MHz)	Average power (dBm)
	BR / EDR	0	2402	7.04
		39	2441	6.76
		78	2480	5.58
	BLE 1Mbps	0	2402	0.60
		19	2440	0.25
		39	2480	-0.94
	BLE 2Mbps	0	2402	-0.85
		19	2440	-1.22
		39	2480	-2.16

FCC SAR Test Report

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	36	5180	18.28
		40	5200	18.26
		44	5220	18.19
		48	5240	18.30
	802.11n-HT20 MCS0	36	5180	18.23
		40	5200	18.14
		44	5220	18.21
		48	5240	18.23
	802.11n-HT40 MCS0	38	5190	15.01
		46	5230	14.98
	802.11ac-VHT20 MCS0	36	5180	18.17
		40	5200	18.25
		44	5220	18.18
		48	5240	18.26
	802.11ac-VHT40 MCS0	38	5190	14.70
		46	5230	14.85
	802.11ac-VHT80 MCS0	42	5210	14.22

5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	52	5260	18.65
		56	5280	18.75
		60	5300	18.82
		64	5320	18.86
	802.11n-HT20 MCS0	52	5260	18.20
		56	5280	18.32
		60	5300	18.42
		64	5320	18.32
	802.11n-HT40 MCS0	54	5270	15.30
		62	5310	15.60
	802.11ac-VHT20 MCS0	52	5260	18.82
		56	5280	18.75
		60	5300	18.48
		64	5320	18.36
	802.11ac-VHT40 MCS0	54	5270	14.51
		62	5310	14.47
	802.11ac-VHT80 MCS0	58	5290	14.60

FCC SAR Test Report

5.6GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	100	5500	18.46
		116	5580	18.35
		124	5620	18.29
		132	5660	18.33
		140	5700	18.80
	802.11n-HT20 MCS0	100	5500	18.70
		116	5580	18.72
		124	5620	18.65
		132	5660	18.67
		140	5700	18.38
	802.11n-HT40 MCS0	102	5510	14.76
		110	5550	15.11
		126	5630	15.08
		134	5670	15.13
	802.11ac-VHT20 MCS0	100	5500	18.68
		116	5580	18.70
		124	5620	18.65
		132	5660	18.69
	802.11ac-VHT40 MCS0	140	5700	18.27
		102	5510	14.88
		110	5550	14.46
		126	5630	14.81
	802.11ac-VHT80 MCS0	134	5670	14.38
		106	5530	14.10
		122	5610	14.12

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	149	5745	18.52
		157	5785	18.72
		165	5825	18.84
	802.11n-HT20 MCS0	149	5745	18.70
		157	5785	18.48
		165	5825	18.43
	802.11n-HT40 MCS0	151	5755	14.29
		159	5795	14.48
	802.11ac-VHT20 MCS0	149	5745	18.68
		157	5785	18.42
		165	5825	18.40
	802.11ac-VHT40 MCS0	151	5755	14.20
		159	5795	14.15
	802.11ac-VHT80 MCS0	155	5775	14.62

4.6 SAR Testing Results

4.6.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

<KDB 941225 D01, 3G SAR Measurement Procedures>

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

(2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

FCC SAR Test Report

4.6.2 SAR Results for Head Exposure Condition

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
1	GSM850	GPRS10	Right Cheek	128	-	-	Full	-	32	30.31	0.06	0.212	1.00	1.48	0.31
	GSM850	GPRS10	Right Tilted	128	-	-	Full	-	32	30.31	-0.06	0.113	1.00	1.48	0.17
	GSM850	GPRS10	Left Cheek	128	-	-	Full	-	32	30.31	-0.14	0.174	1.00	1.48	0.26
	GSM850	GPRS10	Left Tilted	128	-	-	Full	-	32	30.31	-0.06	0.094	1.00	1.48	0.14
2	GSM1900	GPRS10	Right Cheek	512	-	-	Full	-	29	27.51	-0.05	0.091	1.00	1.41	0.13
	GSM1900	GPRS10	Right Tilted	512	-	-	Full	-	29	27.51	0.07	0.064	1.00	1.41	0.09
	GSM1900	GPRS10	Left Cheek	512	-	-	Full	-	29	27.51	0.07	0.079	1.00	1.41	0.11
	GSM1900	GPRS10	Left Tilted	512	-	-	Full	-	29	27.51	-0.04	0.076	1.00	1.41	0.11
3	WCDMA II	RMC12.2K	Right Cheek	9400	-	-	Full	-	25	24.13	-0.06	0.180	1.00	1.22	0.22
	WCDMA II	RMC12.2K	Right Tilted	9400	-	-	Full	-	25	24.13	0.16	0.127	1.00	1.22	0.16
	WCDMA II	RMC12.2K	Left Cheek	9400	-	-	Full	-	25	24.13	-0.09	0.152	1.00	1.22	0.19
	WCDMA II	RMC12.2K	Left Tilted	9400	-	-	Full	-	25	24.13	-0.02	0.160	1.00	1.22	0.20
4	WCDMA IV	RMC12.2K	Right Cheek	1312	-	-	Full	-	25	24.26	0.00	0.148	1.00	1.19	0.17
	WCDMA IV	RMC12.2K	Right Tilted	1312	-	-	Full	-	25	24.26	0.04	0.090	1.00	1.19	0.11
	WCDMA IV	RMC12.2K	Left Cheek	1312	-	-	Full	-	25	24.26	0.05	0.118	1.00	1.19	0.14
	WCDMA IV	RMC12.2K	Left Tilted	1312	-	-	Full	-	25	24.26	-0.09	0.088	1.00	1.19	0.10
5	WCDMA V	RMC12.2K	Right Cheek	4182	-	-	Full	-	25	24.19	0.05	0.247	1.00	1.21	0.30
	WCDMA V	RMC12.2K	Right Tilted	4182	-	-	Full	-	25	24.19	0.05	0.134	1.00	1.21	0.16
	WCDMA V	RMC12.2K	Left Cheek	4182	-	-	Full	-	25	24.19	-0.09	0.202	1.00	1.21	0.24
	WCDMA V	RMC12.2K	Left Tilted	4182	-	-	Full	-	25	24.19	-0.15	0.130	1.00	1.21	0.16
6	LTE 2	QPSK20M	Right Cheek	18700	1	99	Full	-	24.5	24.12	0.09	0.163	1.00	1.09	0.18
	LTE 2	QPSK20M	Right Tilted	18700	1	99	Full	-	24.5	24.12	-0.12	0.120	1.00	1.09	0.13
	LTE 2	QPSK20M	Left Cheek	18700	1	99	Full	-	24.5	24.12	0.16	0.153	1.00	1.09	0.17
	LTE 2	QPSK20M	Left Tilted	18700	1	99	Full	-	24.5	24.12	0.03	0.147	1.00	1.09	0.16
	LTE 2	QPSK20M	Right Cheek	18700	50	0	Full	-	23.5	23.07	0.12	0.127	1.00	1.10	0.14
	LTE 2	QPSK20M	Right Tilted	18700	50	0	Full	-	23.5	23.07	0.00	0.091	1.00	1.10	0.10
	LTE 2	QPSK20M	Left Cheek	18700	50	0	Full	-	23.5	23.07	-0.05	0.118	1.00	1.10	0.13
	LTE 2	QPSK20M	Left Tilted	18700	50	0	Full	-	23.5	23.07	0.14	0.113	1.00	1.10	0.12
7	LTE 5	QPSK10M	Right Cheek	20450	1	0	Full	-	25	23.78	0.01	0.226	1.00	1.32	0.30
	LTE 5	QPSK10M	Right Tilted	20450	1	0	Full	-	25	23.78	0.00	0.143	1.00	1.32	0.19
	LTE 5	QPSK10M	Left Cheek	20450	1	0	Full	-	25	23.78	-0.08	0.197	1.00	1.32	0.26
	LTE 5	QPSK10M	Left Tilted	20450	1	0	Full	-	25	23.78	0.08	0.124	1.00	1.32	0.16
	LTE 5	QPSK10M	Right Cheek	20450	25	0	Full	-	24	23.09	0.11	0.178	1.00	1.23	0.22
	LTE 5	QPSK10M	Right Tilted	20450	25	0	Full	-	24	23.09	-0.04	0.111	1.00	1.23	0.14
	LTE 5	QPSK10M	Left Cheek	20450	25	0	Full	-	24	23.09	0.03	0.165	1.00	1.23	0.20
	LTE 5	QPSK10M	Left Tilted	20450	25	0	Full	-	24	23.09	-0.13	0.099	1.00	1.23	0.12
8	LTE 7	QPSK20M	Right Cheek	21100	1	0	Full	-	24	23.51	0.07	0.126	1.00	1.12	0.14
	LTE 7	QPSK20M	Right Tilted	21100	1	0	Full	-	24	23.51	-0.03	0.074	1.00	1.12	0.08
	LTE 7	QPSK20M	Left Cheek	21100	1	0	Full	-	24	23.51	-0.04	0.075	1.00	1.12	0.08
	LTE 7	QPSK20M	Left Tilted	21100	1	0	Full	-	24	23.51	-0.15	0.046	1.00	1.12	0.05
	LTE 7	QPSK20M	Right Cheek	21100	50	0	Full	-	23	22.48	-0.15	0.098	1.00	1.13	0.11
	LTE 7	QPSK20M	Right Tilted	21100	50	0	Full	-	23	22.48	0.19	0.058	1.00	1.13	0.07
	LTE 7	QPSK20M	Left Cheek	21100	50	0	Full	-	23	22.48	-0.18	0.057	1.00	1.13	0.06
	LTE 7	QPSK20M	Left Tilted	21100	50	0	Full	-	23	22.48	0.04	0.038	1.00	1.13	0.04
	LTE 12	QPSK10M	Right Cheek	23095	1	0	Full	-	25	24.11	0.00	0.104	1.00	1.23	0.13
	LTE 12	QPSK10M	Right Tilted	23095	1	0	Full	-	25	24.11	0.01	0.065	1.00	1.23	0.08
9	LTE 12	QPSK10M	Left Cheek	23095	1	0	Full	-	25	24.11	0.16	0.121	1.00	1.23	0.15
	LTE 12	QPSK10M	Left Tilted	23095	1	0	Full	-	25	24.11	0.00	0.084	1.00	1.23	0.10
	LTE 12	QPSK10M	Right Cheek	23095	25	25	Full	-	24	23.14	0.01	0.085	1.00	1.22	0.10
	LTE 12	QPSK10M	Right Tilted	23095	25	25	Full	-	24	23.14	0.07	0.045	1.00	1.22	0.05
	LTE 12	QPSK10M	Left Cheek	23095	25	25	Full	-	24	23.14	0.06	0.103	1.00	1.22	0.13
	LTE 12	QPSK10M	Left Tilted	23095	25	25	Full	-	24	23.14	-0.03	0.069	1.00	1.22	0.08
	LTE 13	QPSK10M	Right Cheek	23230	1	0	Full	-	25	24.08	-0.02	0.197	1.00	1.24	0.24
	LTE 13	QPSK10M	Right Tilted	23230	1	0	Full	-	25	24.08	-0.13	0.135	1.00	1.24	0.17
10	LTE 13	QPSK10M	Left Cheek	23230	1	0	Full	-	25	24.08	0.17	0.212	1.00	1.24	0.26
	LTE 13	QPSK10M	Left Tilted	23230	1	0	Full	-	25	24.08	0.00	0.128	1.00	1.24	0.16
	LTE 13	QPSK10M	Right Cheek	23230	25	0	Full	-	24	23.27	0.03	0.153	1.00	1.18	0.18
	LTE 13	QPSK10M	Right Tilted	23230	25	0	Full	-	24	23.27	0.08	0.108	1.00	1.18	0.13
	LTE 13	QPSK10M	Left Cheek	23230	25	0	Full	-	24	23.27	0.04	0.150	1.00	1.18	0.18
	LTE 13	QPSK10M	Left Tilted	23230	25	0	Full	-	24	23.27	0.01	0.096	1.00	1.18	0.11
11	LTE 66	QPSK20M	Right Cheek	132572	1	0	Full	-	24.5	24.19	0.09	0.148	1.00	1.07	0.16
	LTE 66	QPSK20M	Right Tilted	132572	1	0	Full	-	24.5	24.19	0.00	0.082	1.00	1.07	0.09
	LTE 66	QPSK20M	Left Cheek	132572	1	0	Full	-	24.5	24.19	0.07	0.122	1.00	1.07	0.13

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 66	QPSK20M	Left Tilted	132572	1	0	Full	-	24.5	24.19	0.08	0.090	1.00	1.07	0.10
	LTE 66	QPSK20M	Right Cheek	132572	50	0	Full	-	23.5	23.27	0.06	0.111	1.00	1.05	0.12
	LTE 66	QPSK20M	Right Tilted	132572	50	0	Full	-	23.5	23.27	0.05	0.064	1.00	1.05	0.07
	LTE 66	QPSK20M	Left Cheek	132572	50	0	Full	-	23.5	23.27	0.02	0.091	1.00	1.05	0.10
	LTE 66	QPSK20M	Left Tilted	132572	50	0	Full	-	23.5	23.27	0.08	0.071	1.00	1.05	0.08
	WLAN2.4G	802.11b	Right Cheek	1	-	-	Full	96.78	19	18.12	0.00	0.425	1.03	1.22	0.54
	WLAN2.4G	802.11b	Right Tilted	1	-	-	Full	96.78	19	18.12	0.00	0.430	1.03	1.22	0.54
12	WLAN2.4G	802.11b	Left Cheek	1	-	-	Full	96.78	19	18.12	0.06	0.793	1.03	1.22	1.00
	WLAN2.4G	802.11b	Left Tilted	1	-	-	Full	96.78	19	18.12	0.04	0.546	1.03	1.22	0.69
	WLAN2.4G	802.11b	Left Cheek	11	-	-	Full	96.78	19	18.1	-0.07	0.676	1.03	1.23	0.86
	WLAN5G	802.11a	Right Cheek	64	-	-	Full	89.68	19	18.86	0.02	0.232	1.12	1.03	0.27
	WLAN5G	802.11a	Right Tilted	64	-	-	Full	89.68	19	18.86	0.00	0.279	1.12	1.03	0.32
13	WLAN5G	802.11a	Left Cheek	64	-	-	Full	89.68	19	18.86	0.17	0.609	1.12	1.03	0.70
	WLAN5G	802.11a	Left Tilted	64	-	-	Full	89.68	19	18.86	0.05	0.538	1.12	1.03	0.62
	WLAN5G	802.11a	Right Cheek	140	-	-	Full	89.68	19	18.8	0.07	0.137	1.12	1.05	0.16
14	WLAN5G	802.11a	Right Tilted	140	-	-	Full	89.68	19	18.8	0.03	0.133	1.12	1.05	0.16
	WLAN5G	802.11a	Left Cheek	140	-	-	Full	89.68	19	18.8	0.14	0.492	1.12	1.05	0.57
	WLAN5G	802.11a	Left Tilted	140	-	-	Full	89.68	19	18.8	0.00	0.343	1.12	1.05	0.40
	WLAN5G	802.11a	Right Cheek	165	-	-	Full	90.32	19	18.84	0.09	0.132	1.11	1.04	0.15
	WLAN5G	802.11a	Right Tilted	165	-	-	Full	90.32	19	18.84	0.09	0.144	1.11	1.04	0.17
15	WLAN5G	802.11a	Left Cheek	165	-	-	Full	90.32	19	18.84	-0.02	0.451	1.11	1.04	0.52
	WLAN5G	802.11a	Left Tilted	165	-	-	Full	90.32	19	18.84	-0.07	0.334	1.11	1.04	0.38
	BT	GFSK	Right Cheek	0	-	-	Full	77.6	8	7.15	-0.06	0.031	1.29	1.22	0.05
	BT	GFSK	Right Tilted	0	-	-	Full	77.6	8	7.15	0.08	0.029	1.29	1.22	0.05
16	BT	GFSK	Left Cheek	0	-	-	Full	77.6	8	7.15	-0.11	0.047	1.29	1.22	0.07
	BT	GFSK	Left Tilted	0	-	-	Full	77.6	8	7.15	0.18	0.040	1.29	1.22	0.06

4.6.3 SAR Results for Body-worn Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS10	Front Face	1	128	-	-	Full	-	32	30.31	0.03	0.203	-	1.48	0.30
17	GSM850	GPRS10	Rear Face	1	128	-	-	Full	-	32	30.31	0.09	0.271	-	1.48	0.40
	GSM1900	GPRS10	Front Face	1	512	-	-	Full	-	29	27.51	0.01	0.286	-	1.41	0.40
18	GSM1900	GPRS10	Rear Face	1	512	-	-	Full	-	29	27.51	-0.04	0.395	-	1.41	0.56
	WCDMA II	RMC12.2K	Front Face	1	9400	-	-	Reduce	-	23	22.19	0.09	0.294	-	1.21	0.35
	WCDMA II	RMC12.2K	Rear Face	1	9400	-	-	Reduce	-	23	22.19	-0.03	0.343	-	1.21	0.41
19	WCDMA II	RMC12.2K	Front Face	1.3	9400	-	-	Full	-	25	24.13	0.06	0.458	-	1.22	0.56
	WCDMA II	RMC12.2K	Rear Face	1.8	9400	-	-	Full	-	25	24.13	0.03	0.293	-	1.22	0.36
	WCDMA IV	RMC12.2K	Front Face	1	1312	-	-	Reduce	-	18.5	18.15	0.02	0.198	-	1.08	0.21
	WCDMA IV	RMC12.2K	Rear Face	1	1312	-	-	Reduce	-	18.5	18.15	0.05	0.438	-	1.08	0.47
20	WCDMA IV	RMC12.2K	Front Face	1.3	1312	-	-	Full	-	25	24.26	0.02	0.928	-	1.19	1.10
	WCDMA IV	RMC12.2K	Rear Face	1.8	1312	-	-	Full	-	25	24.26	0.1	0.900	-	1.19	1.07
	WCDMA IV	RMC12.2K	Front Face	1.3	1413	-	-	Full	-	25	24.18	0.01	0.904	-	1.21	1.09
	WCDMA IV	RMC12.2K	Front Face	1.3	1513	-	-	Full	-	25	24.2	0.09	0.724	-	1.20	0.87
	WCDMA IV	RMC12.2K	Rear Face	1.8	1413	-	-	Full	-	25	24.18	0.11	0.843	-	1.21	1.02
	WCDMA IV	RMC12.2K	Rear Face	1.8	1513	-	-	Full	-	25	24.2	-0.03	0.642	-	1.20	0.77
	WCDMA V	RMC12.2K	Front Face	1	4182	-	-	Full	-	25	24.19	0.03	0.202	-	1.21	0.24
21	WCDMA V	RMC12.2K	Rear Face	1	4182	-	-	Full	-	25	24.19	-0.05	0.274	-	1.21	0.33
	LTE 2	QPSK20M	Front Face	1	18700	1	99	Reduce	-	22.5	22.2	0.01	0.376	-	1.07	0.40
22	LTE 2	QPSK20M	Rear Face	1	18700	1	99	Reduce	-	22.5	22.2	0.05	0.579	-	1.07	0.62
	LTE 2	QPSK20M	Front Face	1.3	18700	1	99	Full	-	24.5	24.12	0.04	0.422	-	1.09	0.46
	LTE 2	QPSK20M	Rear Face	1.8	18700	1	99	Full	-	24.5	24.12	-0.04	0.327	-	1.09	0.36
	LTE 2	QPSK20M	Front Face	1	18700	50	0	Reduce	-	21.5	21.27	0.09	0.273	-	1.05	0.29
	LTE 2	QPSK20M	Rear Face	1	18700	50	0	Reduce	-	21.5	21.27	0.02	0.472	-	1.05	0.50
	LTE 2	QPSK20M	Front Face	1.3	18700	50	0	Full	-	23.5	23.07	-0.03	0.345	-	1.10	0.38
	LTE 2	QPSK20M	Rear Face	1.8	18700	50	0	Full	-	23.5	23.07	0.02	0.287	-	1.10	0.32
	LTE 5	QPSK10M	Front Face	1	20450	1	0	Full	-	25	23.78	0.03	0.190	-	1.32	0.25
23	LTE 5	QPSK10M	Rear Face	1	20450	1	0	Full	-	25	23.78	-0.02	0.245	-	1.32	0.32
	LTE 5	QPSK10M	Front Face	1	20450	25	0	Full	-	24	23.09	0.13	0.151	-	1.23	0.19
	LTE 5	QPSK10M	Rear Face	1	20450	25	0	Full	-	24	23.09	0.03	0.192	-	1.23	0.24
	LTE 7	QPSK20M	Front Face	1	21100	1	0	Reduce	-	19	18.7	0.05	0.219	-	1.07	0.23

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
24	LTE 7	QPSK20M	Rear Face	1	21100	1	0	Reduce	-	19	18.7	0.01	0.407	-	1.07	0.44
	LTE 7	QPSK20M	Front Face	1.3	21100	1	0	Full	-	24	23.51	0	0.555	-	1.12	0.62
	LTE 7	QPSK20M	Rear Face	1.8	21100	1	0	Full	-	24	23.51	0.04	0.424	-	1.12	0.47
	LTE 7	QPSK20M	Front Face	1	21100	50	0	Reduce	-	18	17.7	0.08	0.185	-	1.07	0.20
	LTE 7	QPSK20M	Rear Face	1	21100	50	0	Reduce	-	18	17.7	0.01	0.318	-	1.07	0.34
	LTE 7	QPSK20M	Front Face	1.3	21100	50	0	Full	-	23	22.48	0.05	0.430	-	1.13	0.48
25	LTE 7	QPSK20M	Rear Face	1.8	21100	50	0	Full	-	23	22.48	0.01	0.381	-	1.13	0.43
	LTE 12	QPSK10M	Front Face	1	23095	1	0	Full	-	25	24.11	0.13	0.155	-	1.23	0.19
	LTE 12	QPSK10M	Rear Face	1	23095	1	0	Full	-	25	24.11	0.07	0.218	-	1.23	0.27
	LTE 12	QPSK10M	Front Face	1	23095	25	25	Full	-	24	23.14	0.01	0.138	-	1.22	0.17
26	LTE 12	QPSK10M	Rear Face	1	23095	25	25	Full	-	24	23.14	0.09	0.197	-	1.22	0.24
	LTE 13	QPSK10M	Front Face	1	23230	1	0	Full	-	25	24.08	0.02	0.245	-	1.24	0.30
	LTE 13	QPSK10M	Rear Face	1	23230	1	0	Full	-	25	24.08	-0.01	0.323	-	1.24	0.40
	LTE 13	QPSK10M	Front Face	1	23230	25	0	Full	-	24	23.27	0.1	0.190	-	1.18	0.22
27	LTE 13	QPSK10M	Rear Face	1	23230	25	0	Full	-	24	23.27	0.06	0.266	-	1.18	0.31
	LTE 66	QPSK20M	Front Face	1	132322	1	0	Reduce	-	19.5	19	0.09	0.347	-	1.12	0.39
	LTE 66	QPSK20M	Rear Face	1	132322	1	0	Reduce	-	19.5	19	0.01	0.625	-	1.12	0.70
	LTE 66	QPSK20M	Front Face	1.3	132322	1	0	Full	-	24.5	24.19	-0.01	0.882	-	1.07	0.95
28	LTE 66	QPSK20M	Rear Face	1.8	132322	1	0	Full	-	24.5	24.19	0.06	0.787	-	1.07	0.85
	LTE 66	QPSK20M	Front Face	1	132322	50	0	Reduce	-	18.5	18.13	-0.01	0.265	-	1.09	0.29
	LTE 66	QPSK20M	Rear Face	1	132322	50	0	Reduce	-	18.5	18.13	0.02	0.487	-	1.09	0.53
	LTE 66	QPSK20M	Front Face	1.3	132322	50	0	Full	-	23.5	23.27	0.05	0.695	-	1.05	0.73
29	LTE 66	QPSK20M	Rear Face	1.8	132322	50	0	Full	-	23.5	23.27	0.11	0.606	-	1.05	0.64
	LTE 66	QPSK20M	Front Face	1.3	132072	1	0	Full	-	24.5	23.91	0.13	0.949	-	1.15	1.09
	LTE 66	QPSK20M	Front Face	1.3	132572	1	0	Full	-	24.5	24.03	-0.13	0.711	-	1.11	0.79
	LTE 66	QPSK20M	Rear Face	1.8	132072	1	0	Full	-	24.5	23.91	0.14	0.875	-	1.15	1.00
30	LTE 66	QPSK20M	Rear Face	1.8	132572	1	0	Full	-	24.5	24.03	-0.11	0.579	-	1.11	0.65
	WLAN2.4G	802.11b	Front Face	1	1	-	-	Full	96.78	19	18.12	0.02	0.210	1.03	1.22	0.27
	WLAN2.4G	802.11b	Rear Face	1	1	-	-	Full	96.78	19	18.12	-0.18	0.364	1.03	1.22	0.46
	WLAN5G	802.11a	Front Face	1	64	-	-	Full	89.68	19	18.86	0.06	0.145	1.12	1.03	0.17
31	WLAN5G	802.11a	Rear Face	1	64	-	-	Full	89.68	19	18.86	0.02	0.639	1.12	1.03	0.74
	WLAN5G	802.11a	Rear Face	1.8	64	-	-	Full	89.68	19	18.86	0.01	0.241	1.12	1.03	0.28
	WLAN5G	802.11a	Front Face	1	140	-	-	Full	89.68	19	18.8	0.08	0.108	1.12	1.05	0.13
	WLAN5G	802.11a	Rear Face	1	140	-	-	Full	89.68	19	18.8	0.1	0.438	1.12	1.05	0.51
32	WLAN5G	802.11a	Rear Face	1.8	140	-	-	Full	89.68	19	18.8	0.06	0.270	1.12	1.05	0.32
	WLAN5G	802.11a	Front Face	1	165	-	-	Full	90.32	19	18.84	0.03	0.098	1.11	1.04	0.11
	WLAN5G	802.11a	Rear Face	1	165	-	-	Full	90.32	19	18.84	-0.06	0.362	1.11	1.04	0.42
	WLAN5G	802.11a	Rear Face	1.8	165	-	-	Full	90.32	19	18.84	0.01	0.285	1.11	1.04	0.33
33	BT	GFSK	Front Face	1	0	-	-	Full	77.6	8	7.04	-0.03	0.013	1.29	1.25	0.02
	BT	GFSK	Rear Face	1	0	-	-	Full	77.6	8	7.04	0.06	0.021	1.29	1.25	0.03

4.6.4 SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
33	GSM850	GPRS10	Front Face	1	128	-	-	Full	-	32	30.31	0.03	0.203	-	1.48	0.30
	GSM850	GPRS10	Rear Face	1	128	-	-	Full	-	32	30.31	0.09	0.271	-	1.48	0.40
	GSM850	GPRS10	Left Side	1	128	-	-	Full	-	32	30.31	0.09	0.154	-	1.48	0.23
	GSM850	GPRS10	Right Side	1	128	-	-	Full	-	32	30.31	0.08	0.177	-	1.48	0.26
	GSM850	GPRS10	Bottom Side	1	128	-	-	Full	-	32	30.31	0.08	0.117	-	1.48	0.17
34	GSM1900	GPRS10	Front Face	1	512	-	-	Full	-	29	27.51	0.01	0.286	-	1.41	0.40
	GSM1900	GPRS10	Rear Face	1	512	-	-	Full	-	29	27.51	-0.04	0.395	-	1.41	0.56
	GSM1900	GPRS10	Left Side	1	512	-	-	Full	-	29	27.51	0.17	0.076	-	1.41	0.11
	GSM1900	GPRS10	Right Side	1	512	-	-	Full	-	29	27.51	0.02	0.079	-	1.41	0.11
	GSM1900	GPRS10	Bottom Side	1	512	-	-	Full	-	29	27.51	0	0.706	-	1.41	0.99
35	GSM1900	GPRS10	Bottom Side	1	661	-	-	Full	-	29	27.48	-0.03	0.672	-	1.42	0.95
	GSM1900	GPRS10	Bottom Side	1	810	-	-	Full	-	29	27.48	0.08	0.528	-	1.42	0.75
	WCDMA II	RMC12.2K	Front Face	1	9400	-	-	Reduce	-	23	22.19	0.09	0.294	-	1.21	0.35
35	WCDMA II	RMC12.2K	Rear Face	1	9400	-	-	Reduce	-	23	22.19	-0.03	0.343	-	1.21	0.41
	WCDMA II	RMC12.2K	Left Side	1	9400	-	-	Full	-	25	24.13	0.09	0.122	-	1.22	0.15
	WCDMA II	RMC12.2K	Right Side	1	9400	-	-	Full	-	25	24.13	0.05	0.105	-	1.22	0.13
35	WCDMA II	RMC12.2K	Bottom Side	1	9400	-	-	Reduce	-	23	22.19	0.08	0.502	-	1.21	0.60

FCC SAR Test Report

Plo t No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WCDMA II	RMC12.2K	Front Face	1.3	9400	-	-	Full	-	25	24.13	0.06	0.458	-	1.22	0.56
	WCDMA II	RMC12.2K	Rear Face	1.8	9400	-	-	Full	-	25	24.13	0.03	0.293	-	1.22	0.36
	WCDMA II	RMC12.2K	Bottom Side	2	9400	-	-	Full	-	25	24.13	-0.05	0.337	-	1.22	0.41
	WCDMA IV	RMC12.2K	Front Face	1	1312	-	-	Reduce	-	18.5	18.15	0.02	0.198	-	1.08	0.21
	WCDMA IV	RMC12.2K	Rear Face	1	1312	-	-	Reduce	-	18.5	18.15	0.05	0.438	-	1.08	0.47
	WCDMA IV	RMC12.2K	Left Side	1	1312	-	-	Full	-	25	24.26	0	0.056	-	1.19	0.07
	WCDMA IV	RMC12.2K	Right Side	1	1312	-	-	Full	-	25	24.26	0.05	0.206	-	1.19	0.24
	WCDMA IV	RMC12.2K	Bottom Side	1	1312	-	-	Reduce	-	18.5	18.15	0.15	0.476	-	1.08	0.52
	WCDMA IV	RMC12.2K	Front Face	1.3	1312	-	-	Full	-	25	24.26	0.02	0.928	-	1.19	1.10
	WCDMA IV	RMC12.2K	Rear Face	1.8	1312	-	-	Full	-	25	24.26	0.1	0.900	-	1.19	1.07
36	WCDMA IV	RMC12.2K	Bottom Side	2	1312	-	-	Full	-	25	24.26	0.19	0.972	-	1.19	1.15
	WCDMA IV	RMC12.2K	Front Face	1.3	1413	-	-	Full	-	25	24.18	0.01	0.904	-	1.21	1.09
	WCDMA IV	RMC12.2K	Front Face	1.3	1513	-	-	Full	-	25	24.2	0.09	0.724	-	1.20	0.87
	WCDMA IV	RMC12.2K	Rear Face	1.8	1413	-	-	Full	-	25	24.18	0.11	0.843	-	1.21	1.02
	WCDMA IV	RMC12.2K	Rear Face	1.8	1513	-	-	Full	-	25	24.2	-0.03	0.642	-	1.20	0.77
	WCDMA IV	RMC12.2K	Bottom Side	2	1413	-	-	Full	-	25	24.18	0.03	0.948	-	1.21	1.15
	WCDMA IV	RMC12.2K	Bottom Side	2	1513	-	-	Full	-	25	24.2	0.01	0.756	-	1.20	0.91
	WCDMA V	RMC12.2K	Front Face	1	4182	-	-	Full	-	25	24.19	0.03	0.202	-	1.21	0.24
37	WCDMA V	RMC12.2K	Rear Face	1	4182	-	-	Full	-	25	24.19	-0.05	0.274	-	1.21	0.33
	WCDMA V	RMC12.2K	Left Side	1	4182	-	-	Full	-	25	24.19	0.08	0.156	-	1.21	0.19
	WCDMA V	RMC12.2K	Right Side	1	4182	-	-	Full	-	25	24.19	0.18	0.198	-	1.21	0.24
	WCDMA V	RMC12.2K	Bottom Side	1	4182	-	-	Full	-	25	24.19	0.06	0.124	-	1.21	0.15
	LTE 2	QPSK20M	Front Face	1	18700	1	99	Reduce	-	22.5	22.2	0.01	0.376	-	1.07	0.40
	LTE 2	QPSK20M	Rear Face	1	18700	1	99	Reduce	-	22.5	22.2	0.05	0.579	-	1.07	0.62
	LTE 2	QPSK20M	Left Side	1	18700	1	99	Full	-	24.5	24.12	0.06	0.162	-	1.09	0.18
	LTE 2	QPSK20M	Right Side	1	18700	1	99	Full	-	24.5	24.12	0.06	0.157	-	1.09	0.17
38	LTE 2	QPSK20M	Bottom Side	1	18700	1	99	Reduce	-	22.5	22.2	0.09	0.992	-	1.07	1.06
	LTE 2	QPSK20M	Front Face	1.3	18700	1	99	Full	-	24.5	24.12	0.04	0.422	-	1.09	0.46
	LTE 2	QPSK20M	Rear Face	1.8	18700	1	99	Full	-	24.5	24.12	-0.04	0.327	-	1.09	0.36
	LTE 2	QPSK20M	Bottom Side	2	18700	1	99	Full	-	24.5	24.12	-0.11	0.672	-	1.09	0.73
	LTE 2	QPSK20M	Front Face	1	18700	50	0	Reduce	-	21.5	21.27	0.09	0.273	-	1.05	0.29
	LTE 2	QPSK20M	Rear Face	1	18700	50	0	Reduce	-	21.5	21.27	0.02	0.472	-	1.05	0.50
	LTE 2	QPSK20M	Left Side	1	18700	50	0	Full	-	23.5	23.07	0.06	0.112	-	1.10	0.12
	LTE 2	QPSK20M	Right Side	1	18700	50	0	Full	-	23.5	23.07	0.09	0.121	-	1.10	0.13
	LTE 2	QPSK20M	Bottom Side	1	18700	50	0	Reduce	-	21.5	21.27	0.09	0.744	-	1.05	0.78
	LTE 2	QPSK20M	Front Face	1.3	18700	50	0	Full	-	23.5	23.07	-0.03	0.345	-	1.10	0.38
	LTE 2	QPSK20M	Rear Face	1.8	18700	50	0	Full	-	23.5	23.07	0.02	0.287	-	1.10	0.32
	LTE 2	QPSK20M	Bottom Side	2	18700	50	0	Full	-	23.5	23.07	0.01	0.534	-	1.10	0.59
	LTE 2	QPSK20M	Bottom Side	1	18900	1	99	Reduce	-	22.5	22.18	-0.04	0.940	-	1.08	1.01
	LTE 2	QPSK20M	Bottom Side	1	19100	1	99	Reduce	-	22.5	22.12	0.05	0.882	-	1.09	0.96
	LTE 2	QPSK20M	Bottom Side	1	18700	100	0	Reduce	-	21.5	21.09	0.01	0.613	-	1.10	0.67
	LTE 5	QPSK10M	Front Face	1	20450	1	0	Full	-	25	23.78	0.03	0.190	-	1.32	0.25
39	LTE 5	QPSK10M	Rear Face	1	20450	1	0	Full	-	25	23.78	-0.02	0.245	-	1.32	0.32
	LTE 5	QPSK10M	Left Side	1	20450	1	0	Full	-	25	23.78	0.07	0.151	-	1.32	0.20
	LTE 5	QPSK10M	Right Side	1	20450	1	0	Full	-	25	23.78	0.19	0.186	-	1.32	0.25
	LTE 5	QPSK10M	Bottom Side	1	20450	1	0	Full	-	25	23.78	0.08	0.127	-	1.32	0.17
	LTE 5	QPSK10M	Front Face	1	20450	25	0	Full	-	24	23.09	0.13	0.151	-	1.23	0.19
	LTE 5	QPSK10M	Rear Face	1	20450	25	0	Full	-	24	23.09	0.03	0.192	-	1.23	0.24
	LTE 5	QPSK10M	Left Side	1	20450	25	0	Full	-	24	23.09	-0.03	0.120	-	1.23	0.15
	LTE 5	QPSK10M	Right Side	1	20450	25	0	Full	-	24	23.09	0.02	0.152	-	1.23	0.19
	LTE 5	QPSK10M	Bottom Side	1	20450	25	0	Full	-	24	23.09	0.09	0.091	-	1.23	0.11
	LTE 7	QPSK20M	Front Face	1	21100	1	0	Reduce	-	19	18.7	0.05	0.219	-	1.07	0.23
	LTE 7	QPSK20M	Rear Face	1	21100	1	0	Reduce	-	19	18.7	0.01	0.407	-	1.07	0.44
	LTE 7	QPSK20M	Left Side	1	21100	1	0	Full	-	24	23.51	0.03	0.031	-	1.12	0.03
	LTE 7	QPSK20M	Right Side	1	21100	1	0	Full	-	24	23.51	-0.1	0.100	-	1.12	0.11
	LTE 7	QPSK20M	Bottom Side	1	21100	1	0	Reduce	-	19	18.7	0.01	0.393	-	1.07	0.42
40	LTE 7	QPSK20M	Front Face	1.3	21100	1	0	Full	-	24	23.51	0	0.555	-	1.12	0.62
	LTE 7	QPSK20M	Rear Face	1.8	21100	1	0	Full	-	24	23.51	0.04	0.424	-	1.12	0.47
	LTE 7	QPSK20M	Bottom Side	2	21100	1	0	Full	-	24	23.51	0.07	0.422	-	1.12	0.47
	LTE 7	QPSK20M	Front Face	1	21100	50	0	Reduce	-	18	17.7	0.08	0.185	-	1.07	0.20
	LTE 7	QPSK20M	Rear Face	1	21100	50	0	Reduce	-	18	17.7	0.01	0.318	-	1.07	0.34
	LTE 7	QPSK20M	Left Side	1	21100	50	0	Full	-	23	22.48	0.14	0.024	-	1.13	0.03
	LTE 7	QPSK20M	Right Side	1	21100	50	0	Full	-	23	22.48	-0.1	0.074	-	1.13	0.08
	LTE 7	QPSK20M	Bottom Side	1	21100	50	0	Reduce	-	18	17.7	0.09	0.329	-	1.07	0.35
	LTE 7	QPSK20M	Front Face	1.3	21100	50	0	Full	-	23	22.48	0.05	0.430	-	1.13	0.48
	LTE 7	QPSK20M	Rear Face	1.8	21100	50	0	Full	-	23	22.48	0.01	0.381	-	1.13	0.43



FCC SAR Test Report

Plo t No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 7	QPSK20M	Bottom Side	2	21100	50	0	Full	-	23	22.48	0.07	0.393	-	1.13	0.44
	LTE 12	QPSK10M	Front Face	1	23095	1	0	Full	-	25	24.11	0.13	0.155	-	1.23	0.19
41	LTE 12	QPSK10M	Rear Face	1	23095	1	0	Full	-	25	24.11	0.07	0.218	-	1.23	0.27
	LTE 12	QPSK10M	Left Side	1	23095	1	0	Full	-	25	24.11	-0.03	0.148	-	1.23	0.18
	LTE 12	QPSK10M	Right Side	1	23095	1	0	Full	-	25	24.11	0.03	0.187	-	1.23	0.23
	LTE 12	QPSK10M	Bottom Side	1	23095	1	0	Full	-	25	24.11	0.02	0.066	-	1.23	0.08
	LTE 12	QPSK10M	Front Face	1	23095	25	25	Full	-	24	23.14	0.01	0.138	-	1.22	0.17
	LTE 12	QPSK10M	Rear Face	1	23095	25	25	Full	-	24	23.14	0.09	0.197	-	1.22	0.24
	LTE 12	QPSK10M	Left Side	1	23095	25	25	Full	-	24	23.14	0.04	0.135	-	1.22	0.16
	LTE 12	QPSK10M	Right Side	1	23095	25	25	Full	-	24	23.14	0.05	0.163	-	1.22	0.20
	LTE 12	QPSK10M	Bottom Side	1	23095	25	25	Full	-	24	23.14	0	0.058	-	1.22	0.07
	LTE 13	QPSK10M	Front Face	1	23230	1	0	Full	-	25	24.08	0.02	0.245	-	1.24	0.30
42	LTE 13	QPSK10M	Rear Face	1	23230	1	0	Full	-	25	24.08	-0.01	0.323	-	1.24	0.40
	LTE 13	QPSK10M	Left Side	1	23230	1	0	Full	-	25	24.08	0.06	0.224	-	1.24	0.28
	LTE 13	QPSK10M	Right Side	1	23230	1	0	Full	-	25	24.08	0.09	0.293	-	1.24	0.36
	LTE 13	QPSK10M	Bottom Side	1	23230	1	0	Full	-	25	24.08	-0.03	0.106	-	1.24	0.13
	LTE 13	QPSK10M	Front Face	1	23230	25	0	Full	-	24	23.27	0.1	0.190	-	1.18	0.22
	LTE 13	QPSK10M	Rear Face	1	23230	25	0	Full	-	24	23.27	0.06	0.266	-	1.18	0.31
	LTE 13	QPSK10M	Left Side	1	23230	25	0	Full	-	24	23.27	0.01	0.169	-	1.18	0.20
	LTE 13	QPSK10M	Right Side	1	23230	25	0	Full	-	24	23.27	0.09	0.223	-	1.18	0.26
	LTE 13	QPSK10M	Bottom Side	1	23230	25	0	Full	-	24	23.27	0.08	0.060	-	1.18	0.07
	LTE 66	QPSK20M	Front Face	1	132322	1	0	Reduce	-	19.5	19	0.09	0.347	-	1.12	0.39
	LTE 66	QPSK20M	Rear Face	1	132322	1	0	Reduce	-	19.5	19	0.01	0.625	-	1.12	0.70
	LTE 66	QPSK20M	Left Side	1	132322	1	0	Full	-	24.5	24.19	0.06	0.053	-	1.07	0.06
	LTE 66	QPSK20M	Right Side	1	132322	1	0	Full	-	24.5	24.19	0.05	0.217	-	1.07	0.23
	LTE 66	QPSK20M	Bottom Side	1	132322	1	0	Reduce	-	19.5	19	0.09	0.687	-	1.12	0.77
	LTE 66	QPSK20M	Front Face	1.3	132322	1	0	Full	-	24.5	24.19	-0.01	0.882	-	1.07	0.95
	LTE 66	QPSK20M	Rear Face	1.8	132322	1	0	Full	-	24.5	24.19	0.06	0.787	-	1.07	0.85
	LTE 66	QPSK20M	Bottom Side	2	132322	1	0	Full	-	24.5	24.19	-0.03	0.848	-	1.07	0.91
	LTE 66	QPSK20M	Front Face	1	132322	50	0	Reduce	-	18.5	18.13	-0.01	0.265	-	1.09	0.29
	LTE 66	QPSK20M	Rear Face	1	132322	50	0	Reduce	-	18.5	18.13	0.02	0.487	-	1.09	0.53
	LTE 66	QPSK20M	Left Side	1	132322	50	0	Full	-	23.5	23.27	0.08	0.038	-	1.05	0.04
	LTE 66	QPSK20M	Right Side	1	132322	50	0	Full	-	23.5	23.27	-0.01	0.163	-	1.05	0.17
	LTE 66	QPSK20M	Bottom Side	1	132322	50	0	Reduce	-	18.5	18.13	0.02	0.542	-	1.09	0.59
	LTE 66	QPSK20M	Front Face	1.3	132322	50	0	Full	-	23.5	23.27	0.05	0.695	-	1.05	0.73
	LTE 66	QPSK20M	Rear Face	1.8	132322	50	0	Full	-	23.5	23.27	0.11	0.606	-	1.05	0.64
	LTE 66	QPSK20M	Bottom Side	2	132322	50	0	Full	-	23.5	23.27	0.07	0.699	-	1.05	0.74
43	LTE 66	QPSK20M	Front Face	1.3	132072	1	0	Full	-	24.5	23.91	0.13	0.949	-	1.15	1.09
	LTE 66	QPSK20M	Front Face	1.3	132572	1	0	Full	-	24.5	24.03	-0.13	0.711	-	1.11	0.79
	LTE 66	QPSK20M	Rear Face	1.8	132072	1	0	Full	-	24.5	23.91	0.14	0.875	-	1.15	1.00
	LTE 66	QPSK20M	Rear Face	1.8	132572	1	0	Full	-	24.5	24.03	-0.11	0.579	-	1.11	0.65
	LTE 66	QPSK20M	Bottom Side	2	132072	1	0	Full	-	24.5	23.91	0.1	0.920	-	1.15	1.05
	LTE 66	QPSK20M	Bottom Side	2	132572	1	0	Full	-	24.5	24.03	-0.04	0.684	-	1.11	0.76
	WLAN2.4G	802.11b	Front Face	1	1	-	-	Full	96.78	19	18.12	0.02	0.210	1.03	1.22	0.27
44	WLAN2.4G	802.11b	Rear Face	1	1	-	-	Full	96.78	19	18.12	-0.18	0.364	1.03	1.22	0.46
	WLAN2.4G	802.11b	Right Side	1	1	-	-	Full	96.78	19	18.12	0.03	0.301	1.03	1.22	0.38
	WLAN2.4G	802.11b	Top Side	1	1	-	-	Full	96.78	19	18.12	0.01	0.201	1.03	1.22	0.25
	WLAN2.4G	802.11b	Rear Face	1.8	1	-	-	Full	96.78	19	18.12	0.06	0.144	1.03	1.22	0.18
	WLAN5G	802.11a	Front Face	1	48	-	-	Full	89.68	19	18.3	0.02	0.101	1.12	1.17	0.13
45	WLAN5G	802.11a	Rear Face	1	48	-	-	Full	89.68	19	18.3	0.19	0.605	1.12	1.17	0.79
	WLAN5G	802.11a	Right Side	1	48	-	-	Full	89.68	19	18.3	0.01	0.145	1.12	1.17	0.19
	WLAN5G	802.11a	Top Side	1	48	-	-	Full	89.68	19	18.3	0.15	0.422	1.12	1.17	0.55
	WLAN5G	802.11a	Rear Face	1.8	48	-	-	Full	89.68	19	18.3	0.07	0.226	1.12	1.17	0.30
	WLAN5G	802.11a	Front Face	1	165	-	-	Full	90.32	19	18.84	0.03	0.098	1.11	1.04	0.11
46	WLAN5G	802.11a	Rear Face	1	165	-	-	Full	90.32	19	18.84	-0.06	0.362	1.11	1.04	0.42
	WLAN5G	802.11a	Right Side	1	165	-	-	Full	90.32	19	18.84	-0.03	0.162	1.11	1.04	0.19
	WLAN5G	802.11a	Top Side	1	165	-	-	Full	90.32	19	18.84	-0.02	0.230	1.11	1.04	0.26
	WLAN5G	802.11a	Rear Face	1.8	165	-	-	Full	90.32	19	18.84	0.01	0.285	1.11	1.04	0.33
	BT	GFSK	Front Face	1	0	-	-	Full	77.6	8	7.04	-0.03	0.013	1.29	1.25	0.02
47	BT	GFSK	Rear Face	1	0	-	-	Full	77.6	8	7.04	0.06	0.021	1.29	1.25	0.03
	BT	GFSK	Right Side	1	0	-	-	Full	77.6	8	7.04	-0.01	0.017	1.29	1.25	0.03
	BT	GFSK	Top Side	1	0	-	-	Full	77.6	8	7.04	0.02	0.004	1.29	1.25	0.01