

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: LTE CatM1 B2 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.9	22.74	22.82	/	2.82	25.72	25.56	25.64	33.01	PASS
		2	22.68	22.82	22.84	/	2.82	25.5	25.64	25.66	33.01	PASS
		5	22.48	22.55	22.75	/	2.82	25.3	25.37	25.57	33.01	PASS
	3	0	22.5	22.57	22.74	/	2.82	25.32	25.39	25.56	33.01	PASS
		2	22.51	22.73	22.67	/	2.82	25.33	25.55	25.49	33.01	PASS
		3	22.45	22.67	22.56	/	2.82	25.27	25.49	25.38	33.01	PASS
	6	0	21.69	21.87	21.86	/	2.82	24.51	24.69	24.68	33.01	PASS
		2	21.72	21.93	21.89	/	2.82	24.54	24.75	24.71	33.01	PASS
		5	21.44	21.85	21.89	/	2.82	24.26	24.67	24.71	33.01	PASS
16QAM	1	0	21.4	21.75	21.74	/	2.82	24.22	24.57	24.56	33.01	PASS
		2	21.66	22.05	21.82	/	2.82	24.48	24.87	24.64	33.01	PASS
		3	21.66	21.77	21.85	/	2.82	24.48	24.59	24.67	33.01	PASS
	3	0	21.09	21.03	21.01	/	2.82	23.91	23.85	23.83	33.01	PASS
		2	21.75	21.89	21.94	/	2.82	24.57	24.71	24.76	33.01	PASS
		5	21.44	21.85	21.89	/	2.82	24.26	24.67	24.71	33.01	PASS
	6	0	21.64	21.86	21.88	/	2.82	24.46	24.68	24.7	33.01	PASS
		2	22.09	21.93	21.5	/	2.82	24.91	24.75	24.32	33.01	PASS
		5	21.95	21.81	21.46	/	2.82	24.77	24.63	24.28	33.01	PASS

Test Band: LTE CatM1 B2 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.87	22.87	22.89	/	2.82	25.69	25.69	25.71	33.01	PASS
		2	22.74	22.99	22.73	/	2.82	25.56	25.81	25.55	33.01	PASS
		5	22.64	22.6	22.68	/	2.82	25.46	25.42	25.5	33.01	PASS
	3	0	21.49	21.59	22.67	/	2.82	24.31	24.41	25.49	33.01	PASS
		2	21.41	21.78	21.69	/	2.82	24.23	24.6	24.51	33.01	PASS
		3	21.38	21.64	21.58	/	2.82	24.2	24.46	24.4	33.01	PASS
	6	0	21.64	21.86	21.88	/	2.82	24.46	24.68	24.7	33.01	PASS
		2	22.09	21.93	21.5	/	2.82	24.91	24.75	24.32	33.01	PASS
		5	21.95	21.81	21.46	/	2.82	24.77	24.63	24.28	33.01	PASS
16QAM	1	0	20.66	20.71	20.57	/	2.82	23.48	23.53	23.39	33.01	PASS
		2	20.83	20.96	20.57	/	2.82	23.65	23.78	23.39	33.01	PASS
		3	20.83	20.71	20.61	/	2.82	23.65	23.53	23.43	33.01	PASS
	3	0	20.99	21.01	20.9	/	2.82	23.81	23.83	23.72	33.01	PASS
		2	20.83	20.96	20.57	/	2.82	23.65	23.78	23.39	33.01	PASS
		3	20.83	20.71	20.61	/	2.82	23.65	23.53	23.43	33.01	PASS
	6	0	21.64	21.86	21.88	/	2.82	24.46	24.68	24.7	33.01	PASS
		2	22.09	21.93	21.5	/	2.82	24.91	24.75	24.32	33.01	PASS
		5	21.95	21.81	21.46	/	2.82	24.77	24.63	24.28	33.01	PASS

Test Band: LTE CatM1 B2 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.85	22.73	22.98	/	2.82	25.67	25.55	25.8	33.01	PASS
		2	22.71	22.89	22.9	/	2.82	25.53	25.71	25.72	33.01	PASS
		5	22.65	22.58	22.83	/	2.82	25.47	25.4	25.65	33.01	PASS
	3	0	21.45	21.84	22.82	/	2.82	24.27	24.66	25.64	33.01	PASS
		2	21.51	21.76	21.73	/	2.82	24.33	24.58	24.55	33.01	PASS
		3	21.45	21.65	21.69	/	2.82	24.27	24.47	24.51	33.01	PASS
	6	0	21.64	21.96	21.95	/	2.82	24.46	24.78	24.77	33.01	PASS
		2	21.98	22.37	21.72	/	2.82	24.8	25.19	24.54	33.01	PASS
		5	21.76	22.13	21.69	/	2.82	24.58	24.95	24.51	33.01	PASS
16QAM	1	0	20.6	20.92	20.73	/	2.82	23.42	23.74	23.55	33.01	PASS
		2	20.85	20.98	20.66	/	2.82	23.67	23.8	23.48	33.01	PASS
		3	20.85	20.71	20.84	/	2.82	23.67	23.53	23.66	33.01	PASS
	3	0	21.06	20.99	21.09	/	2.82	23.88	23.81	23.91	33.01	PASS
		2	21.76	22.13	21.69	/	2.82	24.58	24.95	24.51	33.01	PASS
		5	21.63	22.06	21.52	/	2.82	24.45	24.88	24.34	33.01	PASS
	6	0	21.64	21.86	21.88	/	2.82	24.46	24.68	24.7	33.01	PASS
		2	22.09	21.93	21.5	/	2.82	24.91	24.75	24.32	33.01	PASS
		5	21.95	21.81	21.46	/	2.82	24.77	24.63	24.28	33.01	PASS

Test Band: LTE CatM1 B2 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.79	22.77	22.96	/	2.82	25.61	25.59	25.78	33.01	PASS
		2	22.88	22.9	22.8	/	2.82	25.7	25.72	25.62	33.01	PASS
		5	22.92	22.66	22.63	/	2.82	25.74	25.48	25.45	33.01	PASS
	3	0	21.53	21.67	22.62	/	2.82	24.35	24.49	25.44	33.01	PASS
		2	21.59	21.74	21.74	/	2.82	24.41	24.56	24.56	33.01	PASS
		3	21.62	21.68	21.7	/	2.82	24.44	24.5	24.52	33.01	PASS
16QAM	1	0	21.85	21.96	21.97	/	2.82	24.67	24.78	24.79	33.01	PASS
			22.33	22.26	21.93	/	2.82	25.15	25.08	24.75	33.01	PASS
		2	22.03	21.79	21.71	/	2.82	24.85	24.61	24.53	33.01	PASS
	3	5	22.26	21.74	21.6	/	2.82	25.08	24.56	24.42	33.01	PASS
		0	20.58	20.86	20.83	/	2.82	23.4	23.68	23.65	33.01	PASS
		2	20.93	21.03	20.66	/	2.82	23.75	23.85	23.48	33.01	PASS
	6	3	20.93	20.82	20.84	/	2.82	23.75	23.64	23.66	33.01	PASS
		0	21.21	21.05	21.14	/	2.82	24.03	23.87	23.96	33.01	PASS

Test Band: LTE CatM1 B2 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.78	22.81	22.98	/	2.82	25.6	25.63	25.8	33.01	PASS
		2	22.64	22.78	22.83	/	2.82	25.46	25.6	25.65	33.01	PASS
		5	22.64	22.73	22.82	/	2.82	25.46	25.55	25.64	33.01	PASS
	3	0	21.49	21.58	22.81	/	2.82	24.31	24.4	25.63	33.01	PASS
		2	21.48	21.72	21.53	/	2.82	24.3	24.54	24.35	33.01	PASS
		3	21.58	21.58	21.45	/	2.82	24.4	24.4	24.27	33.01	PASS
16QAM	1	6	21.74	21.78	21.76	/	2.82	24.56	24.6	24.58	33.01	PASS
		0	22.16	22.23	21.58	/	2.82	24.98	25.05	24.4	33.01	PASS
		2	21.72	21.71	21.53	/	2.82	24.54	24.53	24.35	33.01	PASS
	3	5	21.71	21.84	21.43	/	2.82	24.53	24.66	24.25	33.01	PASS
		0	20.7	20.74	20.46	/	2.82	23.52	23.56	23.28	33.01	PASS
		2	20.86	20.93	20.41	/	2.82	23.68	23.75	23.23	33.01	PASS
	6	3	20.86	20.7	20.53	/	2.82	23.68	23.52	23.35	33.01	PASS
		0	21.19	20.95	20.93	/	2.82	24.01	23.77	23.75	33.01	PASS

Test Band: LTE CatM1 B2 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.79	22.85	22.71	/	2.82	25.61	25.67	25.53	33.01	PASS
		2	22.65	22.92	22.72	/	2.82	25.47	25.74	25.54	33.01	PASS
		5	22.33	22.66	22.67	/	2.82	25.15	25.48	25.49	33.01	PASS
	3	0	21.53	21.65	22.66	/	2.82	24.35	24.47	25.48	33.01	PASS
		2	21.55	21.7	21.47	/	2.82	24.37	24.52	24.29	33.01	PASS
		3	21.55	21.53	21.52	/	2.82	24.37	24.35	24.34	33.01	PASS
16QAM	1	6	21.72	21.84	21.8	/	2.82	24.54	24.66	24.62	33.01	PASS
		0	21.99	21.92	21.76	/	2.82	24.81	24.74	24.58	33.01	PASS
		2	21.79	21.37	21.5	/	2.82	24.61	24.19	24.32	33.01	PASS
	3	5	21.44	21.49	21.72	/	2.82	24.26	24.31	24.54	33.01	PASS
		0	20.58	20.76	20.43	/	2.82	23.4	23.58	23.25	33.01	PASS
		2	20.85	20.9	20.43	/	2.82	23.67	23.72	23.25	33.01	PASS
	6	3	20.85	20.53	20.61	/	2.82	23.67	23.35	23.43	33.01	PASS
		0	21.14	20.95	20.83	/	2.82	23.96	23.77	23.65	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

2. Effective (Isotropic) Radiated Power Output Data

2.1 Test Result

Test Band: LTE CatM1 B4 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.19	22.73	23.06	/	3.37	26.56	26.1	26.43	30.00	PASS
		2	23.12	22.66	23	/	3.37	26.49	26.03	26.37	30.00	PASS
		5	23.24	22.65	22.94	/	3.37	26.61	26.02	26.31	30.00	PASS
	3	0	23.27	22.6	22.93	/	3.37	26.64	25.97	26.3	30.00	PASS
		2	23.07	22.6	22.85	/	3.37	26.44	25.97	26.22	30.00	PASS
		3	23.17	22.62	22.77	/	3.37	26.54	25.99	26.14	30.00	PASS
	6	0	21.64	21.52	21.99	/	3.37	25.01	24.89	25.36	30.00	PASS
		2	22.15	21.7	21.81	/	3.37	25.52	25.07	25.18	30.00	PASS
		5	22.27	21.72	21.86	/	3.37	25.64	25.09	25.23	30.00	PASS
16QAM	1	0	22.14	21.65	21.71	/	3.37	25.51	25.02	25.08	30.00	PASS
		2	22.27	21.72	21.86	/	3.37	25.64	25.09	25.23	30.00	PASS
		5	22.14	21.65	21.71	/	3.37	25.51	25.02	25.08	30.00	PASS
	3	0	22	21.65	21.83	/	3.37	25.37	25.02	25.2	30.00	PASS
		2	21.97	21.6	21.88	/	3.37	25.34	24.97	25.25	30.00	PASS
		3	22.09	21.78	21.91	/	3.37	25.46	25.15	25.28	30.00	PASS
	6	0	20.99	20.6	21.26	/	3.37	24.36	23.97	24.63	30.00	PASS
		2	22.27	21.72	21.86	/	3.37	25.64	25.09	25.23	30.00	PASS
		5	22.14	21.65	21.71	/	3.37	25.51	25.02	25.08	30.00	PASS

Test Band: LTE CatM1 B4 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.23	22.75	23.14	/	3.37	26.6	26.12	26.51	30.00	PASS
		2	23.14	22.56	22.97	/	3.37	26.51	25.93	26.34	30.00	PASS
		5	23.23	22.64	22.97	/	3.37	26.6	26.01	26.34	30.00	PASS
	3	0	22.28	21.69	22.96	/	3.37	25.65	25.06	26.33	30.00	PASS
		2	22.04	21.64	21.93	/	3.37	25.41	25.01	25.3	30.00	PASS
		3	22.24	21.64	21.89	/	3.37	25.61	25.01	25.26	30.00	PASS
	6	0	21.62	21.54	21.98	/	3.37	24.99	24.91	25.35	30.00	PASS
		2	22.17	21.69	21.82	/	3.37	25.54	25.06	25.19	30.00	PASS
		5	22.35	21.78	21.71	/	3.37	25.72	25.15	25.08	30.00	PASS
16QAM	1	0	22.16	21.71	21.63	/	3.37	25.53	25.08	25	30.00	PASS
		2	22.16	21.71	21.63	/	3.37	25.53	25.08	25	30.00	PASS
		5	22.16	21.71	21.63	/	3.37	25.53	25.08	25	30.00	PASS
	3	0	21.06	20.81	20.9	/	3.37	24.43	24.18	24.27	30.00	PASS
		2	21.03	20.67	20.89	/	3.37	24.4	24.04	24.26	30.00	PASS
		3	21.15	20.88	20.94	/	3.37	24.52	24.25	24.31	30.00	PASS
	6	0	20.91	20.7	21.13	/	3.37	24.28	24.07	24.5	30.00	PASS
		2	22.17	21.69	21.82	/	3.37	25.54	25.06	25.19	30.00	PASS
		5	22.35	21.78	21.71	/	3.37	25.72	25.15	25.08	30.00	PASS

Test Band: LTE CatM1 B4 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.24	22.86	23.13	/	3.37	26.61	26.23	26.5	30.00	PASS
		2	23.09	22.82	23.03	/	3.37	26.46	26.19	26.4	30.00	PASS
		5	23.16	22.67	23.01	/	3.37	26.53	26.04	26.38	30.00	PASS
	3	0	22.22	21.69	23	/	3.37	25.59	25.06	26.37	30.00	PASS
		2	22.06	21.74	21.86	/	3.37	25.43	25.11	25.23	30.00	PASS
		3	22.26	21.69	21.77	/	3.37	25.63	25.06	25.14	30.00	PASS
	6	0	21.65	21.65	22.07	/	3.37	25.02	25.02	25.44	30.00	PASS
		2	22.08	22.2	21.92	/	3.37	25.45	25.57	25.29	30.00	PASS
		5	22.03	22.11	21.79	/	3.37	25.4	25.48	25.16	30.00	PASS
16QAM	1	0	21.86	22.02	21.84	/	3.37	25.23	25.39	25.21	30.00	PASS
		2	21.03	20.79	21	/	3.37	24.4	24.16	24.37	30.00	PASS
		5	20.97	20.67	20.8	/	3.37	24.34	24.04	24.17	30.00	PASS
	3	0	20.97	20.67	20.8	/	3.37	24.34	24.04	24.17	30.00	PASS
		2	20.97	20.67	20.8	/	3.37	24.34	24.04	24.17	30.00	PASS
		3	21.09	20.91	20.98	/	3.37	24.46	24.28	24.35	30.00	PASS
	6	0	21.06	20.67	21.29	/	3.37	24.43	24.04	24.66	30.00	PASS
		2	22.03	22.11	21.79	/	3.37	25.4	25.48	25.16	30.00	PASS
		5	21.86	22.02	21.84	/	3.37	25.23	25.39	25.21	30.00	PASS

Test Band: LTE CatM1 B4 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.25	23	23.23	/	3.37	26.62	26.37	26.6	30.00	PASS
		2	23.14	23.25	22.85	/	3.37	26.51	26.62	26.22	30.00	PASS
		5	23.09	22.84	23.21	/	3.37	26.46	26.21	26.58	30.00	PASS
	3	0	22.34	21.72	23.2	/	3.37	25.71	25.09	26.57	30.00	PASS
		2	22.09	21.7	21.81	/	3.37	25.46	25.07	25.18	30.00	PASS
		3	22.3	21.81	21.84	/	3.37	25.67	25.18	25.21	30.00	PASS
16QAM	1	0	21.78	21.56	22.04	/	3.37	25.15	24.93	25.41	30.00	PASS
			22.38	21.93	22.16	/	3.37	25.75	25.3	25.53	30.00	PASS
		2	22.2	21.76	21.75	/	3.37	25.57	25.13	25.12	30.00	PASS
		5	22.1	22.02	21.95	/	3.37	25.47	25.39	25.32	30.00	PASS
	3	0	21.01	20.85	20.88	/	3.37	24.38	24.22	24.25	30.00	PASS
		2	21.02	20.74	20.81	/	3.37	24.39	24.11	24.18	30.00	PASS
		3	21.14	21	21.06	/	3.37	24.51	24.37	24.43	30.00	PASS
	6	0	21.02	20.71	21.25	/	3.37	24.39	24.08	24.62	30.00	PASS

Test Band: LTE CatM1 B4 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.04	22.8	22.94	/	3.37	26.41	26.17	26.31	30.00	PASS
		2	22.83	22.56	22.68	/	3.37	26.2	25.93	26.05	30.00	PASS
		5	22.62	22.37	22.81	/	3.37	25.99	25.74	26.18	30.00	PASS
	3	0	22.02	21.66	22.8	/	3.37	25.39	25.03	26.17	30.00	PASS
		2	21.9	21.54	21.65	/	3.37	25.27	24.91	25.02	30.00	PASS
		3	21.96	21.51	21.5	/	3.37	25.33	24.88	24.87	30.00	PASS
16QAM	1	0	21.37	21.41	21.62	/	3.37	24.74	24.78	24.99	30.00	PASS
			21.77	21.83	21.82	/	3.37	25.14	25.2	25.19	30.00	PASS
		2	21.72	21.69	21.51	/	3.37	25.09	25.06	24.88	30.00	PASS
		5	21.41	21.47	21.57	/	3.37	24.78	24.84	24.94	30.00	PASS
	3	0	20.95	20.84	20.5	/	3.37	24.32	24.21	23.87	30.00	PASS
		2	20.82	20.63	20.54	/	3.37	24.19	24	23.91	30.00	PASS
		3	20.94	20.7	20.58	/	3.37	24.31	24.07	23.95	30.00	PASS
	6	0	20.7	20.55	20.9	/	3.37	24.07	23.92	24.27	30.00	PASS

Test Band: LTE CatM1 B4 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.74	22.71	22.6	/	3.37	26.11	26.08	25.97	30.00	PASS
		2	22.78	22.65	22.71	/	3.37	26.15	26.02	26.08	30.00	PASS
		5	22.64	22.47	22.67	/	3.37	26.01	25.84	26.04	30.00	PASS
	3	0	21.99	21.71	22.66	/	3.37	25.36	25.08	26.03	30.00	PASS
		2	21.8	21.52	21.52	/	3.37	25.17	24.89	24.89	30.00	PASS
		3	21.83	21.46	21.49	/	3.37	25.2	24.83	24.86	30.00	PASS
16QAM	1	0	21.38	21.38	21.72	/	3.37	24.75	24.75	25.09	30.00	PASS
			21.68	21.38	21.62	/	3.37	25.05	24.75	24.99	30.00	PASS
		2	21.8	21.26	21.77	/	3.37	25.17	24.63	25.14	30.00	PASS
		5	21.51	21.06	21.83	/	3.37	24.88	24.43	25.2	30.00	PASS
	3	0	20.71	20.77	20.48	/	3.37	24.08	24.14	23.85	30.00	PASS
		2	20.63	20.57	20.51	/	3.37	24	23.94	23.88	30.00	PASS
		3	20.75	20.64	20.67	/	3.37	24.12	24.01	24.04	30.00	PASS
	6	0	20.65	20.54	20.82	/	3.37	24.02	23.91	24.19	30.00	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3. Effective (Isotropic) Radiated Power Output Data

3.1 Test Result

Test Band: LTE CatM1 B12 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.15	23	23.33	-0.81	1.34	22.34	22.19	22.52	34.77	PASS
		2	22.97	23.04	23.26	-0.81	1.34	22.16	22.23	22.45	34.77	PASS
		5	23.06	23.1	23.22	-0.81	1.34	22.25	22.29	22.41	34.77	PASS
	3	0	23.11	22.98	23.21	-0.81	1.34	22.3	22.17	22.4	34.77	PASS
		2	22.92	23.04	23.36	-0.81	1.34	22.11	22.23	22.55	34.77	PASS
		3	23.01	23.03	23.21	-0.81	1.34	22.2	22.22	22.4	34.77	PASS
	6	0	21.58	21.97	22.62	-0.81	1.34	20.77	21.16	21.81	34.77	PASS
		0	21.9	22.26	21.97	-0.81	1.34	21.09	21.45	21.16	34.77	PASS
		0	21.91	22.39	22.28	-0.81	1.34	21.1	21.58	21.47	34.77	PASS
16QAM	1	2	21.86	22.38	22.11	-0.81	1.34	21.05	21.57	21.3	34.77	PASS
		0	21.93	22.1	22.23	-0.81	1.34	21.12	21.29	21.42	34.77	PASS
		2	21.88	22.03	22.28	-0.81	1.34	21.07	21.22	21.47	34.77	PASS
	3	3	22	22.27	22.3	-0.81	1.34	21.19	21.46	21.49	34.77	PASS
		0	20.95	21.09	21.82	-0.81	1.34	20.14	20.28	21.01	34.77	PASS
		0	20.95	21.09	21.82	-0.81	1.34	20.14	20.28	21.01	34.77	PASS
	6	0	20.95	21.09	21.82	-0.81	1.34	20.14	20.28	21.01	34.77	PASS
		0	20.95	21.09	21.82	-0.81	1.34	20.14	20.28	21.01	34.77	PASS
		0	20.95	21.09	21.82	-0.81	1.34	20.14	20.28	21.01	34.77	PASS

Test Band: LTE CatM1 B12 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.24	22.99	23.39	-0.81	1.34	22.43	22.18	22.58	34.77	PASS
		2	23.11	23.09	23.3	-0.81	1.34	22.3	22.28	22.49	34.77	PASS
		5	23.17	23.1	23.3	-0.81	1.34	22.36	22.29	22.49	34.77	PASS
	3	0	22.24	22.03	23.29	-0.81	1.34	21.43	21.22	22.48	34.77	PASS
		2	22	22.1	22.46	-0.81	1.34	21.19	21.29	21.65	34.77	PASS
		3	22.09	22.11	22.31	-0.81	1.34	21.28	21.3	21.5	34.77	PASS
	6	0	21.64	21.99	22.67	-0.81	1.34	20.83	21.18	21.86	34.77	PASS
		0	22.24	21.98	22.07	-0.81	1.34	21.43	21.17	21.26	34.77	PASS
		0	22.2	22.13	22.35	-0.81	1.34	21.39	21.32	21.54	34.77	PASS
16QAM	1	5	22.04	22.12	22.15	-0.81	1.34	21.23	21.31	21.34	34.77	PASS
		0	21	21.16	21.46	-0.81	1.34	20.19	20.35	20.65	34.77	PASS
		2	20.99	21.04	21.39	-0.81	1.34	20.18	20.23	20.58	34.77	PASS
	3	3	21.11	21.32	21.45	-0.81	1.34	20.3	20.51	20.64	34.77	PASS
		0	20.94	21.08	21.72	-0.81	1.34	20.13	20.27	20.91	34.77	PASS
		0	20.94	21.08	21.72	-0.81	1.34	20.13	20.27	20.91	34.77	PASS
	6	0	20.94	21.08	21.72	-0.81	1.34	20.13	20.27	20.91	34.77	PASS
		0	20.94	21.08	21.72	-0.81	1.34	20.13	20.27	20.91	34.77	PASS
		0	20.94	21.08	21.72	-0.81	1.34	20.13	20.27	20.91	34.77	PASS

Test Band: LTE CatM1 B12 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.24	23	23.42	-0.81	1.34	22.43	22.19	22.61	34.77	PASS
		2	23.14	22.98	23.4	-0.81	1.34	22.33	22.17	22.59	34.77	PASS
		5	23.28	23.16	23.38	-0.81	1.34	22.47	22.35	22.57	34.77	PASS
	3	0	22.27	22.17	23.37	-0.81	1.34	21.46	21.36	22.56	34.77	PASS
		2	22.14	22.13	22.42	-0.81	1.34	21.33	21.32	21.61	34.77	PASS
		3	22.31	22.21	22.27	-0.81	1.34	21.5	21.4	21.46	34.77	PASS
	6	0	21.79	22.07	22.55	-0.81	1.34	20.98	21.26	21.74	34.77	PASS
		0	21.98	22.28	22.21	-0.81	1.34	21.17	21.47	21.4	34.77	PASS
		0	22.08	22.49	22.29	-0.81	1.34	21.27	21.68	21.48	34.77	PASS
16QAM	1	5	21.94	22.55	22.15	-0.81	1.34	21.13	21.74	21.34	34.77	PASS
		0	21.07	21.22	21.39	-0.81	1.34	20.26	20.41	20.58	34.77	PASS
		2	21.05	21.11	21.35	-0.81	1.34	20.24	20.3	20.54	34.77	PASS
	3	3	21.17	21.37	21.41	-0.81	1.34	20.36	20.56	20.6	34.77	PASS
		0	21.19	21.08	21.75	-0.81	1.34	20.38	20.27	20.94	34.77	PASS
		0	21.19	21.08	21.75	-0.81	1.34	20.38	20.27	20.94	34.77	PASS
	6	0	21.19	21.08	21.75	-0.81	1.34	20.38	20.27	20.94	34.77	PASS
		0	21.19	21.08	21.75	-0.81	1.34	20.38	20.27	20.94	34.77	PASS
		0	21.19	21.08	21.75	-0.81	1.34	20.38	20.27	20.94	34.77	PASS

Test Band: LTE CatM1 B12 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.17	23.31	23.34	-0.81	1.34	22.36	22.5	22.53	34.77	PASS
		2	23.17	23.18	23.39	-0.81	1.34	22.36	22.37	22.58	34.77	PASS
		5	23.27	23.35	23.29	-0.81	1.34	22.46	22.54	22.48	34.77	PASS
	3	0	22.49	22.26	23.28	-0.81	1.34	21.68	21.45	22.47	34.77	PASS
		2	22.31	22.19	22.41	-0.81	1.34	21.5	21.38	21.6	34.77	PASS
		3	22.43	22.27	22.33	-0.81	1.34	21.62	21.46	21.52	34.77	PASS
	6	0	21.87	22.06	22.67	-0.81	1.34	21.06	21.25	21.86	34.77	PASS
			22.5	22.29	22.48	-0.81	1.34	21.69	21.48	21.67	34.77	PASS
16QAM	1	2	22.27	22.14	22.44	-0.81	1.34	21.46	21.33	21.63	34.77	PASS
		5	22.45	22.28	22.31	-0.81	1.34	21.64	21.47	21.5	34.77	PASS
		0	21.23	21.35	21.56	-0.81	1.34	20.42	20.54	20.75	34.77	PASS
	3	2	21.16	21.25	21.4	-0.81	1.34	20.35	20.44	20.59	34.77	PASS
		3	21.28	21.47	21.51	-0.81	1.34	20.47	20.66	20.7	34.77	PASS
	6	0	21.21	21.13	21.79	-0.81	1.34	20.4	20.32	20.98	34.77	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

4. Effective (Isotropic) Radiated Power Output Data

4.1 Test Result

Test Band: LTE CatM1 B13 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.52	23.52	23.62	-0.3	1.85	23.22	23.22	23.32	34.77	PASS
		2	23.82	23.5	23.94	-0.3	1.85	23.52	23.2	23.64	34.77	PASS
		5	23.42	23.68	23.92	-0.3	1.85	23.12	23.38	23.62	34.77	PASS
	3	0	22.95	22.69	23.91	-0.3	1.85	22.65	22.39	23.61	34.77	PASS
		2	22.82	22.65	22.96	-0.3	1.85	22.52	22.35	22.66	34.77	PASS
		3	22.99	22.73	22.81	-0.3	1.85	22.69	22.43	22.51	34.77	PASS
	6	0	22.47	22.59	23.09	-0.3	1.85	22.17	22.29	22.79	34.77	PASS
		2	22.66	22.8	22.75	-0.3	1.85	22.36	22.5	22.45	34.77	PASS
		5	22.76	23.01	22.83	-0.3	1.85	22.46	22.71	22.53	34.77	PASS
16QAM	1	0	21.75	21.74	21.93	-0.3	1.85	21.45	21.44	21.63	34.77	PASS
		2	21.73	21.63	21.89	-0.3	1.85	21.43	21.33	21.59	34.77	PASS
		3	21.85	21.89	21.95	-0.3	1.85	21.55	21.59	21.65	34.77	PASS
	3	0	21.87	21.6	22.29	-0.3	1.85	21.57	21.3	21.99	34.77	PASS
		2	22.76	23.01	22.83	-0.3	1.85	22.46	22.71	22.53	34.77	PASS
		5	22.62	23.07	22.69	-0.3	1.85	22.32	22.77	22.39	34.77	PASS
	6	0	21.75	21.74	21.93	-0.3	1.85	21.45	21.44	21.63	34.77	PASS
		2	21.73	21.63	21.89	-0.3	1.85	21.43	21.33	21.59	34.77	PASS
		3	21.85	21.89	21.95	-0.3	1.85	21.55	21.59	21.65	34.77	PASS

Test Band: LTE CatM1 B13 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	23.56	/	-0.3	1.85	/	23.26	/	34.77	PASS
		2	/	23.48	/	-0.3	1.85	/	23.18	/	34.77	PASS
		5	/	23.69	/	-0.3	1.85	/	23.39	/	34.77	PASS
	3	0	/	22.62	/	-0.3	1.85	/	22.32	/	34.77	PASS
		2	/	22.5	/	-0.3	1.85	/	22.2	/	34.77	PASS
		3	/	22.56	/	-0.3	1.85	/	22.26	/	34.77	PASS
	6	0	/	22.36	/	-0.3	1.85	/	22.06	/	34.77	PASS
		2	/	22.54	/	-0.3	1.85	/	22.24	/	34.77	PASS
		5	/	22.47	/	-0.3	1.85	/	22.17	/	34.77	PASS
16QAM	1	0	/	22.55	/	-0.3	1.85	/	22.25	/	34.77	PASS
		2	/	21.64	/	-0.3	1.85	/	21.34	/	34.77	PASS
		3	/	21.46	/	-0.3	1.85	/	21.16	/	34.77	PASS
	3	0	/	21.65	/	-0.3	1.85	/	21.35	/	34.77	PASS
		2	/	21.64	/	-0.3	1.85	/	21.34	/	34.77	PASS
		3	/	21.65	/	-0.3	1.85	/	21.35	/	34.77	PASS
	6	0	/	21.37	/	-0.3	1.85	/	21.07	/	34.77	PASS
		2	/	22.47	/	-0.3	1.85	/	22.17	/	34.77	PASS
		5	/	22.55	/	-0.3	1.85	/	22.25	/	34.77	PASS

Note:

- 1) dBd = dBi - 2.15
- 2) EIRP = Conducted output power + Antenna gain (dBi)
- 3) ERP = Conducted output power + Antenna gain (dBd)

5. Effective (Isotropic) Radiated Power Output Data

5.1 Test Result

Test Band: LTE CatM1 B25 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.76	22.67	23.11	/	2.82	25.58	25.49	25.93	33.01	PASS
		2	22.68	22.61	23.13	/	2.82	25.5	25.43	25.95	33.01	PASS
		5	22.64	22.64	23.12	/	2.82	25.46	25.46	25.94	33.01	PASS
	3	0	22.74	22.62	23.11	/	2.82	25.56	25.44	25.93	33.01	PASS
		2	22.59	22.66	23.04	/	2.82	25.41	25.48	25.86	33.01	PASS
		3	22.67	22.7	22.93	/	2.82	25.49	25.52	25.75	33.01	PASS
	6	0	21.19	21.6	22.19	/	2.82	24.01	24.42	25.01	33.01	PASS
		0	21.34	21.82	22.26	/	2.82	24.16	24.64	25.08	33.01	PASS
		0	21.51	21.82	22.31	/	2.82	24.33	24.64	25.13	33.01	PASS
16QAM	1	2	21.22	21.84	22.26	/	2.82	24.04	24.66	25.08	33.01	PASS
		0	21.3	21.8	22.11	/	2.82	24.12	24.62	24.93	33.01	PASS
		2	21.34	21.78	22.19	/	2.82	24.16	24.6	25.01	33.01	PASS
	3	3	21.46	21.94	22.22	/	2.82	24.28	24.76	25.04	33.01	PASS
		0	20.49	20.74	21.38	/	2.82	23.31	23.56	24.2	33.01	PASS
		0	20.49	20.74	21.38	/	2.82	23.31	23.56	24.2	33.01	PASS
	6	0	20.49	20.74	21.38	/	2.82	23.31	23.56	24.2	33.01	PASS
		0	20.49	20.74	21.38	/	2.82	23.31	23.56	24.2	33.01	PASS
		0	20.49	20.74	21.38	/	2.82	23.31	23.56	24.2	33.01	PASS

Test Band: LTE CatM1 B25 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.92	22.8	23.18	/	2.82	25.74	25.62	26	33.01	PASS
		2	22.74	22.78	23.02	/	2.82	25.56	25.6	25.84	33.01	PASS
		5	22.8	22.69	23.05	/	2.82	25.62	25.51	25.87	33.01	PASS
	3	0	21.73	21.64	23.04	/	2.82	24.55	24.46	25.86	33.01	PASS
		2	21.49	21.71	22.06	/	2.82	24.31	24.53	24.88	33.01	PASS
		3	21.6	21.67	21.95	/	2.82	24.42	24.49	24.77	33.01	PASS
	6	0	21.14	21.59	22.21	/	2.82	23.96	24.41	25.03	33.01	PASS
		0	21.71	21.82	21.87	/	2.82	24.53	24.64	24.69	33.01	PASS
		2	21.71	21.74	21.83	/	2.82	24.53	24.56	24.65	33.01	PASS
16QAM	1	5	21.66	21.72	21.68	/	2.82	24.48	24.54	24.5	33.01	PASS
		0	20.56	20.76	20.94	/	2.82	23.38	23.58	23.76	33.01	PASS
		2	20.51	20.69	20.94	/	2.82	23.33	23.51	23.76	33.01	PASS
	3	3	20.63	20.88	20.98	/	2.82	23.45	23.7	23.8	33.01	PASS
		0	20.39	20.72	21.27	/	2.82	23.21	23.54	24.09	33.01	PASS
		0	20.39	20.72	21.27	/	2.82	23.21	23.54	24.09	33.01	PASS
	6	0	20.39	20.72	21.27	/	2.82	23.21	23.54	24.09	33.01	PASS
		0	20.39	20.72	21.27	/	2.82	23.21	23.54	24.09	33.01	PASS
		0	20.39	20.72	21.27	/	2.82	23.21	23.54	24.09	33.01	PASS

Test Band: LTE CatM1 B25 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.89	23	23.45	/	2.82	25.71	25.82	26.27	33.01	PASS
		2	22.71	22.68	23.19	/	2.82	25.53	25.5	26.01	33.01	PASS
		5	22.81	22.67	23.2	/	2.82	25.63	25.49	26.02	33.01	PASS
	3	0	21.69	21.89	23.19	/	2.82	24.51	24.71	26.01	33.01	PASS
		2	21.59	21.69	22.1	/	2.82	24.41	24.51	24.92	33.01	PASS
		3	21.67	21.68	22.06	/	2.82	24.49	24.5	24.88	33.01	PASS
	6	0	21.14	21.69	22.28	/	2.82	23.96	24.51	25.1	33.01	PASS
		0	21.6	22.26	22.09	/	2.82	24.42	25.08	24.91	33.01	PASS
		2	21.52	22.06	22.06	/	2.82	24.34	24.88	24.88	33.01	PASS
16QAM	1	5	21.41	22.05	21.89	/	2.82	24.23	24.87	24.71	33.01	PASS
		0	20.5	20.97	21.1	/	2.82	23.32	23.79	23.92	33.01	PASS
		2	20.53	20.71	21.03	/	2.82	23.35	23.53	23.85	33.01	PASS
	3	3	20.65	20.88	21.21	/	2.82	23.47	23.7	24.03	33.01	PASS
		0	20.46	20.7	21.46	/	2.82	23.28	23.52	24.28	33.01	PASS
		0	20.46	20.7	21.46	/	2.82	23.28	23.52	24.28	33.01	PASS
	6	0	20.46	20.7	21.46	/	2.82	23.28	23.52	24.28	33.01	PASS
		0	20.46	20.7	21.46	/	2.82	23.28	23.52	24.28	33.01	PASS
		0	20.46	20.7	21.46	/	2.82	23.28	23.52	24.28	33.01	PASS

Test Band: LTE CatM1 B25 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.17	23.14	23.35	/	2.82	25.99	25.96	26.17	33.01	PASS
		2	22.88	22.69	23.09	/	2.82	25.7	25.51	25.91	33.01	PASS
		5	23.08	22.75	23	/	2.82	25.9	25.57	25.82	33.01	PASS
	3	0	21.77	21.72	22.99	/	2.82	24.59	24.54	25.81	33.01	PASS
		2	21.67	21.67	22.11	/	2.82	24.49	24.49	24.93	33.01	PASS
		3	21.84	21.71	22.07	/	2.82	24.66	24.53	24.89	33.01	PASS
16QAM	1	0	21.35	21.69	22.3	/	2.82	24.17	24.51	25.12	33.01	PASS
			21.95	22.15	22.3	/	2.82	24.77	24.97	25.12	33.01	PASS
		2	21.79	21.72	22.08	/	2.82	24.61	24.54	24.9	33.01	PASS
	3	5	22.04	21.73	21.97	/	2.82	24.86	24.55	24.79	33.01	PASS
		0	20.48	20.91	21.2	/	2.82	23.3	23.73	24.02	33.01	PASS
		2	20.61	20.76	21.03	/	2.82	23.43	23.58	23.85	33.01	PASS
	6	3	20.73	20.99	21.21	/	2.82	23.55	23.81	24.03	33.01	PASS
		0	20.61	20.76	21.51	/	2.82	23.43	23.58	24.33	33.01	PASS

Test Band: LTE CatM1 B25 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.05	23.12	23.27	/	2.82	25.87	25.94	26.09	33.01	PASS
		2	22.64	22.57	23.12	/	2.82	25.46	25.39	25.94	33.01	PASS
		5	22.8	22.82	23.19	/	2.82	25.62	25.64	26.01	33.01	PASS
	3	0	21.73	21.63	23.18	/	2.82	24.55	24.45	26	33.01	PASS
		2	21.56	21.65	21.9	/	2.82	24.38	24.47	24.72	33.01	PASS
		3	21.8	21.61	21.82	/	2.82	24.62	24.43	24.64	33.01	PASS
16QAM	1	0	21.24	21.51	22.09	/	2.82	24.06	24.33	24.91	33.01	PASS
			21.78	22.12	21.95	/	2.82	24.6	24.94	24.77	33.01	PASS
		2	21.48	21.64	21.9	/	2.82	24.3	24.46	24.72	33.01	PASS
	3	5	21.49	21.83	21.8	/	2.82	24.31	24.65	24.62	33.01	PASS
		0	20.6	20.79	20.83	/	2.82	23.42	23.61	23.65	33.01	PASS
		2	20.54	20.66	20.78	/	2.82	23.36	23.48	23.6	33.01	PASS
	6	3	20.66	20.87	20.9	/	2.82	23.48	23.69	23.72	33.01	PASS
		0	20.59	20.66	21.3	/	2.82	23.41	23.48	24.12	33.01	PASS

Test Band: LTE CatM1 B25 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.85	23.16	23	/	2.82	25.67	25.98	25.82	33.01	PASS
		2	22.65	22.71	23.01	/	2.82	25.47	25.53	25.83	33.01	PASS
		5	22.49	22.75	23.04	/	2.82	25.31	25.57	25.86	33.01	PASS
	3	0	21.77	21.7	23.03	/	2.82	24.59	24.52	25.85	33.01	PASS
		2	21.63	21.63	21.84	/	2.82	24.45	24.45	24.66	33.01	PASS
		3	21.77	21.56	21.89	/	2.82	24.59	24.38	24.71	33.01	PASS
16QAM	1	6	21.22	21.57	22.13	/	2.82	24.04	24.39	24.95	33.01	PASS
		0	21.61	21.81	22.13	/	2.82	24.43	24.63	24.95	33.01	PASS
		2	21.55	21.3	21.87	/	2.82	24.37	24.12	24.69	33.01	PASS
	3	5	21.22	21.48	22.09	/	2.82	24.04	24.3	24.91	33.01	PASS
		0	20.48	20.81	20.8	/	2.82	23.3	23.63	23.62	33.01	PASS
		2	20.53	20.63	20.8	/	2.82	23.35	23.45	23.62	33.01	PASS
	6	3	20.65	20.7	20.98	/	2.82	23.47	23.52	23.8	33.01	PASS
		0	20.54	20.66	21.2	/	2.82	23.36	23.48	24.02	33.01	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)