

Appendix E

LTE BAND42

CONDUCTED OUTPUT POWER AND E.I.R.P.

CONDUCTED OUTPUT POWER (dBm)

Part96_LTE Band 42_Ant 7						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20	QPSK	1	0	23.70	23.72	23.50
		1	50	23.46	23.70	23.44
		1	99	23.53	23.58	23.33
		50	0	22.77	22.70	22.73
		50	25	22.71	22.61	22.65
		50	50	22.59	22.67	22.53
		100	0	22.66	22.63	22.62
	16QAM	1	0	22.63	22.55	22.65
		1	50	22.63	22.72	22.49
		1	99	22.63	22.68	22.31
		50	0	21.65	21.65	21.71
		50	25	21.68	21.71	21.64
		50	50	21.55	21.81	21.54
		100	0	21.58	21.67	21.62
	64QAM	1	0	21.57	21.67	21.65
		1	50	21.41	21.74	21.49
		1	99	21.40	21.68	21.41
		50	0	20.66	20.66	20.63
		50	25	20.57	20.59	20.72
		50	50	20.55	20.70	20.61
		100	0	20.51	20.62	20.69
	256QAM	1	0	18.93	18.90	18.91
		1	50	18.84	18.88	18.89
		1	99	18.91	18.84	18.68
		50	0	18.96	18.97	19.00
		50	25	18.94	18.98	18.93
		50	50	18.92	18.96	18.87
		100	0	18.96	18.90	18.94
	Modulation	Channel		43165	43340	43515

BW [MHz]		Frequency (MHz)		3557.5	3575	3592.5
15	QPSK	1	0	23.69	23.61	23.43
		1	37	23.45	23.61	23.41
		1	74	23.49	23.54	23.21
		36	0	22.73	22.55	22.61
		36	19	22.65	22.54	22.51
		36	39	22.58	22.62	22.48
		75	0	22.63	22.54	22.48
	16QAM	1	0	22.49	22.52	22.50
		1	37	22.54	22.63	22.39
		1	74	22.54	22.63	22.19
		36	0	21.52	21.54	21.63
		36	19	21.62	21.57	21.56
		36	39	21.52	21.75	21.48
		75	0	21.46	21.66	21.47
	64QAM	1	0	21.45	21.65	21.61
		1	37	21.38	21.61	21.45
		1	74	21.26	21.67	21.35
		36	0	20.56	20.54	20.50
		36	19	20.45	20.49	20.60
		36	39	20.52	20.63	20.60
		75	0	20.49	20.57	20.61
	256QAM	1	0	18.87	18.76	18.89
		1	37	18.78	18.82	18.85
		1	74	18.78	18.78	18.54
		36	0	18.81	18.89	18.87
		36	19	18.79	18.96	18.89
		36	39	18.81	18.84	18.79
		75	0	18.84	18.87	18.92
BW [MHz]	Modulation	Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10	QPSK	1	0	23.62	23.65	23.46
		1	24	23.39	23.56	23.41
		1	49	23.52	23.52	23.21
		25	0	22.68	22.65	22.64
		25	12	22.56	22.50	22.61
		25	25	22.52	22.64	22.44
		50	0	22.65	22.52	22.48
	16QAM	1	0	22.52	22.46	22.56
		1	24	22.59	22.70	22.35
		1	49	22.52	22.53	22.22
		25	0	21.59	21.62	21.58

		25	12	21.63	21.69	21.52
		25	25	21.47	21.68	21.48
		50	0	21.48	21.61	21.57
	64QAM	1	0	21.48	21.56	21.57
		1	24	21.31	21.71	21.36
		1	49	21.29	21.66	21.35
		25	0	20.63	20.60	20.52
		25	12	20.55	20.46	20.59
		25	25	20.45	20.60	20.52
		50	0	20.47	20.52	20.66
	256QAM	1	0	18.85	18.89	18.89
		1	24	18.83	18.74	18.87
		1	49	18.82	18.76	18.61
		25	0	18.87	18.92	18.97
		25	12	18.83	18.93	18.81
		25	25	18.90	18.93	18.74
		50	0	18.86	18.87	18.88
BW [MHz]	Modulation	Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5	QPSK	1	0	23.67	23.66	23.38
		1	12	23.41	23.65	23.32
		1	24	23.46	23.55	23.31
		12	0	22.71	22.67	22.65
		12	6	22.70	22.50	22.53
		12	13	22.45	22.55	22.52
		25	0	22.64	22.58	22.49
	16QAM	1	0	22.54	22.50	22.51
		1	12	22.58	22.67	22.36
		1	24	22.57	22.54	22.26
		12	0	21.64	21.61	21.68
		12	6	21.61	21.61	21.61
		12	13	21.48	21.66	21.52
		25	0	21.45	21.55	21.49
	64QAM	1	0	21.50	21.53	21.56
		1	12	21.40	21.60	21.38
		1	24	21.37	21.55	21.33
		12	0	20.62	20.53	20.48
		12	6	20.52	20.49	20.58
		12	13	20.52	20.68	20.48
		25	0	20.39	20.61	20.59
	256QAM	1	0	18.91	18.76	18.79
		1	12	18.78	18.82	18.87

		1	24	18.83	18.69	18.67
		12	0	18.87	18.83	18.90
		12	6	18.88	18.94	18.78
		12	13	18.90	18.84	18.78
		25	0	18.94	18.77	18.88

EIRP

Part96_LTE Band 42_Ant 7						
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
20M-QPSK	43190	3560	23.70	-0.89	22.81	190.99
	43340	3575	23.72	-0.89	22.83	191.87
	43490	3590	23.50	-0.89	22.61	182.39
20M-16QAM	43190	3560	22.63	-0.89	21.74	149.28
	43340	3575	22.72	-0.89	21.83	152.41
	43490	3590	22.65	-0.89	21.76	149.97
20M-64QAM	43190	3560	21.57	-0.89	20.68	116.95
	43340	3575	21.74	-0.89	20.85	121.62
	43490	3590	21.65	-0.89	20.76	119.12
20M-256QAM	43190	3560	18.96	-0.89	18.07	64.12
	43340	3575	18.98	-0.89	18.09	64.42
	43490	3590	19.00	-0.89	18.11	64.71
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
15M-QPSK	43165	3557.5	23.69	-0.89	22.80	190.55
	43340	3575	23.61	-0.89	22.72	187.07
	43515	3592.5	23.43	-0.89	22.54	179.47
15M-16QAM	43165	3557.5	22.54	-0.89	21.65	146.22
	43340	3575	22.63	-0.89	21.74	149.28
	43515	3592.5	22.50	-0.89	21.61	144.88
15M-64QAM	43165	3557.5	21.45	-0.89	20.56	113.76
	43340	3575	21.67	-0.89	20.78	119.67
	43515	3592.5	21.61	-0.89	20.72	118.03
15M-256QAM	43165	3557.5	18.87	-0.89	17.98	62.81
	43340	3575	18.96	-0.89	18.07	64.12
	43515	3592.5	18.92	-0.89	18.03	63.53
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
10M-QPSK	43140	3555	23.62	-0.89	22.73	187.50
	43340	3575	23.65	-0.89	22.76	188.80
	43540	3595	23.46	-0.89	22.57	180.72
10M-16QAM	43140	3555	22.59	-0.89	21.70	147.91
	43340	3575	22.70	-0.89	21.81	151.71
	43540	3595	22.56	-0.89	21.67	146.89
10M-64QAM	43140	3555	21.48	-0.89	20.59	114.55

	43340	3575	21.71	-0.89	20.82	120.78
	43540	3595	21.57	-0.89	20.68	116.95
10M-256QAM	43140	3555	18.90	-0.89	18.01	63.24
	43340	3575	18.93	-0.89	18.04	63.68
	43540	3595	18.97	-0.89	18.08	64.27
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
5M-QPSK	43115	3552.5	23.67	-0.89	22.78	189.67
	43340	3575	23.66	-0.89	22.77	189.23
	43565	3597.5	23.38	-0.89	22.49	177.42
5M-16QAM	43115	3552.5	22.58	-0.89	21.69	147.57
	43340	3575	22.67	-0.89	21.78	150.66
	43565	3597.5	22.51	-0.89	21.62	145.21
5M-64QAM	43115	3552.5	21.50	-0.89	20.61	115.08
	43340	3575	21.60	-0.89	20.71	117.76
	43565	3597.5	21.56	-0.89	20.67	116.68
5M-256QAM	43115	3552.5	18.94	-0.89	18.05	63.83
	43340	3575	18.94	-0.89	18.05	63.83
	43565	3597.5	18.90	-0.89	18.01	63.24

Note:

1. The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).
2. LTE Band 42 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48

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