

Appendix C

LTE BAND42

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

CONDUCTED OUTPUT POWER (dBm)

LTE band 42:

LTE Band 42 FCC Part96 (Ant7)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20M	QPSK	1	0	22.81	22.99	22.95
		1	50	23.00	23.01	23.11
		1	99	22.84	22.90	22.99
		50	0	21.88	21.97	21.91
		50	25	21.97	21.97	22.09
		50	50	22.04	22.12	22.22
		100	0	21.83	21.89	21.97
	16QAM	1	0	21.63	21.68	21.75
		1	50	21.83	21.93	21.98
		1	99	22.01	22.13	22.13
		50	0	20.80	20.89	21.04
		50	25	20.89	20.92	21.00
		50	50	21.09	21.03	21.08
		100	0	21.00	20.98	21.11
	64QAM	1	0	20.68	20.64	20.73
		1	50	20.91	20.89	21.01
		1	99	21.10	21.12	21.17
		50	0	19.87	20.00	19.95
		50	25	19.84	19.93	20.01
		50	50	20.07	20.14	20.11
		100	0	20.02	20.08	20.10
	256QAM	1	0	17.88	17.98	17.93
		1	50	17.94	17.99	17.99
		1	99	18.09	18.08	18.14
		50	0	17.66	17.77	17.82
		50	25	17.95	18.01	18.01
		50	50	18.03	18.15	18.14
		100	0	18.00	18.10	18.03

BW	MCS Index	Channel		43165	43340	43515
		Frequency (MHz)		3557.5	3575	3592.5
15M	QPSK	1	0	22.78	22.90	22.88
		1	37	22.90	22.89	22.99
		1	74	22.80	22.83	22.91
		36	0	21.73	21.86	21.90
		36	19	21.93	21.86	21.96
		36	39	21.90	22.03	22.16
		75	0	21.81	21.82	21.93
	16QAM	1	0	21.48	21.63	21.74
		1	37	21.70	21.89	21.87
		1	74	21.94	22.04	22.03
		36	0	20.76	20.75	20.92
		36	19	20.78	20.85	20.87
		36	39	21.01	20.97	20.98
		75	0	20.97	20.91	20.98
	64QAM	1	0	20.63	20.57	20.71
		1	37	20.89	20.80	20.86
		1	74	21.07	21.11	21.02
		36	0	19.75	19.90	19.89
		36	19	19.73	19.89	19.90
		36	39	20.01	20.05	20.04
		75	0	19.99	20.00	20.02
	256QAM	1	0	17.82	17.97	17.84
		1	37	17.80	17.85	17.84
		1	74	18.04	18.01	18.04
		36	0	17.64	17.69	17.79
		36	19	17.88	17.92	17.98
		36	39	17.92	18.12	18.07
		75	0	17.94	18.02	17.95

BW	MCS Index	Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10M	QPSK	1	0	22.77	22.90	22.89
		1	24	22.95	22.86	23.02
		1	49	22.73	22.85	22.84
		25	0	21.81	21.96	21.85
		25	12	21.90	21.94	22.04
		25	25	21.96	21.97	22.20
		50	0	21.69	21.83	21.93
	16QAM	1	0	21.49	21.65	21.61
		1	24	21.76	21.92	21.88
		1	49	21.86	22.03	22.10
		25	0	20.67	20.82	21.01
		25	12	20.80	20.89	20.91
		25	25	21.06	20.97	21.02
		50	0	20.98	20.93	21.10
	64QAM	1	0	20.66	20.62	20.63
		1	24	20.82	20.74	20.88
		1	49	21.06	21.06	21.11
		25	0	19.73	19.97	19.84
		25	12	19.81	19.87	19.96
		25	25	20.04	20.08	20.00
		50	0	19.97	20.02	20.08
	256QAM	1	0	17.85	17.84	17.83
		1	24	17.83	17.89	17.88
		1	49	18.01	18.01	17.99
		25	0	17.64	17.76	17.80
		25	12	17.93	17.96	17.92
		25	25	17.93	18.03	18.13
		50	0	17.96	18.05	17.93

BW	MCS Index	Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5M	QPSK	1	0	22.75	22.95	22.91
		1	12	22.85	22.95	22.96
		1	24	22.73	22.75	22.98
		12	0	21.78	21.86	21.78
		12	6	21.86	21.90	22.05
		12	13	22.01	22.10	22.12
		25	0	21.69	21.84	21.95
	16QAM	1	0	21.59	21.54	21.69
		1	12	21.71	21.82	21.88
		1	24	21.98	22.12	22.06
		12	0	20.66	20.80	20.90
		12	6	20.80	20.81	20.88
		12	13	21.01	20.93	21.07
		25	0	20.99	20.97	20.99
	64QAM	1	0	20.56	20.58	20.62
		1	12	20.79	20.84	20.97
		1	24	20.95	21.09	21.14
		12	0	19.80	19.85	19.94
		12	6	19.75	19.90	19.99
		12	13	19.95	20.03	19.98
		25	0	20.00	20.04	19.98
	256QAM	1	0	17.75	17.95	17.78
		1	12	17.90	17.95	17.89
		1	24	17.94	17.94	18.01
		12	0	17.63	17.73	17.69
		12	6	17.81	17.92	17.88
		12	13	18.02	18.00	18.08
		25	0	17.92	18.09	17.98

EIRP

LTE Band 42

LTE B42 5M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43115	3552.5	22.85	-0.75	22.1	162.18	23
43340	3575	22.95	-0.75	22.2	165.96	23
43565	3597.5	22.98	-0.75	22.23	167.11	23

LTE B42 5M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43115	3552.5	21.98	-0.75	21.23	132.74	23
43340	3575	22.12	-0.75	21.37	137.09	23
43565	3597.5	22.06	-0.75	21.31	135.21	23

LTE B42 5M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43115	3552.5	20.95	-0.75	20.2	104.71	23
43340	3575	21.09	-0.75	20.34	108.14	23
43565	3597.5	21.14	-0.75	20.39	109.4	23

LTE B42 5M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43115	3552.5	18.02	-0.75	17.27	53.33	23
43340	3575	18.09	-0.75	17.34	54.2	23
43565	3597.5	18.08	-0.75	17.33	54.08	23

LTE B42 10M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43140	3555	22.95	-0.75	22.2	165.96	23
43340	3575	22.9	-0.75	22.15	164.06	23
43540	3595	23.02	-0.75	22.27	168.66	23

LTE B42 10M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43140	3555	21.86	-0.75	21.11	129.12	23
43340	3575	22.03	-0.75	21.28	134.28	23
43540	3595	22.1	-0.75	21.35	136.46	23

LTE B42 10M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43140	3555	21.06	-0.75	20.31	107.4	23
43340	3575	21.06	-0.75	20.31	107.4	23
43540	3595	21.11	-0.75	20.36	108.64	23

LTE B42 10M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43140	3555	18.01	-0.75	17.26	53.21	23
43340	3575	18.05	-0.75	17.3	53.7	23
43540	3595	18.13	-0.75	17.38	54.7	23

LTE B42 15M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43165	3557.5	22.9	-0.75	22.15	164.06	23
43340	3575	22.9	-0.75	22.15	164.06	23
43515	3592.5	22.99	-0.75	22.24	167.49	23

LTE B42 15M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43165	3557.5	21.94	-0.75	21.19	131.52	23
43340	3575	22.04	-0.75	21.29	134.59	23
43515	3592.5	22.03	-0.75	21.28	134.28	23

LTE B42 15M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43165	3557.5	21.07	-0.75	20.32	107.65	23
43340	3575	21.11	-0.75	20.36	108.64	23
43515	3592.5	21.02	-0.75	20.27	106.41	23

LTE B42 15M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43165	3557.5	18.04	-0.75	17.29	53.58	23
43340	3575	18.12	-0.75	17.37	54.58	23
43515	3592.5	18.07	-0.75	17.32	53.95	23

LTE B42 20M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43190	3560	23	-0.75	22.25	167.88	23
43340	3575	23.01	-0.75	22.26	168.27	23
43490	3590	23.11	-0.75	22.36	172.19	23

LTE B42 20M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43190	3560	22.01	-0.75	21.26	133.66	23
43340	3575	22.13	-0.75	21.38	137.4	23
43490	3590	22.13	-0.75	21.38	137.4	23

LTE B42 20M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43190	3560	21.1	-0.75	20.35	108.39	23
43340	3575	21.12	-0.75	20.37	108.89	23
43490	3590	21.17	-0.75	20.42	110.15	23

LTE B42 20M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10Mhz)
43190	3560	18.09	-0.75	17.34	54.2	23
43340	3575	18.15	-0.75	17.4	54.95	23
43490	3590	18.14	-0.75	17.39	54.83	23

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

--END--