

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
4/ 15	QPSK	1	0	23.01	22.90	22.67	0
		1	37	23.02	22.98	22.82	0
		1	74	22.87	22.80	22.60	0
		36	0	22.66	22.61	22.59	1
		36	19	22.78	22.74	22.51	1
		36	39	22.58	22.56	22.55	1
		75	0	22.74	22.66	22.50	1
	16QAM	1	0	22.65	22.65	22.44	1
		1	37	22.72	22.63	22.57	1
		1	74	22.49	22.48	22.36	1
		36	0	22.29	22.06	22.08	2
		36	19	22.19	22.25	22.08	2
		36	39	22.26	22.11	22.09	2
		75	0	22.29	22.10	21.92	2
	64QAM	1	0	22.34	22.35	22.16	2
		1	37	22.46	22.31	22.25	2
		1	74	22.24	22.13	22.08	2
		36	0	21.24	21.17	20.96	3
		36	19	21.24	21.11	21.03	3
		36	39	21.27	21.21	21.07	3
		75	0	21.30	21.11	21.05	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
4/ 20	QPSK	1	0	23.02	22.94	22.75	0
		1	50	23.06	23.01	22.88	0
		1	99	22.89	22.81	22.64	0
		50	0	22.72	22.66	22.60	1
		50	25	22.79	22.76	22.56	1
		50	50	22.66	22.63	22.57	1
		100	0	22.75	22.70	22.53	1
	16QAM	1	0	22.68	22.66	22.50	1
		1	50	22.76	22.68	22.59	1
		1	99	22.55	22.50	22.39	1
		50	0	22.31	22.14	22.09	2
		50	25	22.27	22.29	22.13	2
		50	50	22.29	22.17	22.11	2
		100	0	22.30	22.15	22.00	2
	64QAM	1	0	22.40	22.38	22.20	2
		1	50	22.48	22.38	22.30	2
		1	99	22.30	22.21	22.10	2
		50	0	21.25	21.19	21.04	3
		50	25	21.31	21.19	21.09	3
		50	50	21.29	21.22	21.11	3
		100	0	21.32	21.19	21.06	3

**LTE Band 7**

Band/BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425	MPR
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz	
7/5	QPSK	1	0	22.62	22.47	22.61	0
		1	12	22.88	22.71	22.91	0
		1	24	22.76	22.64	22.84	0
		12	0	22.36	22.24	22.42	1
		12	6	22.54	22.50	22.51	1
		12	13	22.39	22.33	22.51	1
		25	0	22.42	22.37	22.44	1
	16QAM	1	0	22.28	22.19	22.36	1
		1	12	22.50	22.47	22.63	1
		1	24	22.37	22.32	22.46	1
		12	0	21.85	21.73	21.90	2
		12	6	21.94	22.02	22.05	2
		12	13	21.92	21.88	22.06	2
		25	0	21.91	21.76	21.91	2
	64QAM	1	0	21.95	21.89	22.00	2
		1	12	22.23	22.21	22.27	2
		1	24	22.06	22.06	22.26	2
		12	0	21.00	20.86	20.93	3
		12	6	21.04	21.02	21.09	3
		12	13	21.00	20.92	21.00	3
		25	0	20.94	20.82	21.04	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400	MPR
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz	
7/ 10	QPSK	1	0	22.59	22.50	22.61	0
		1	24	22.88	22.71	22.92	0
		1	49	22.73	22.68	22.80	0
		25	0	22.37	22.23	22.45	1
		25	12	22.60	22.44	22.51	1
		25	25	22.37	22.30	22.50	1
		50	0	22.47	22.37	22.41	1
	16QAM	1	0	22.28	22.16	22.32	1
		1	24	22.55	22.43	22.66	1
		1	49	22.37	22.33	22.43	1
		25	0	21.87	21.71	21.96	2
		25	12	21.98	21.96	22.10	2
		25	25	21.91	21.89	22.03	2
		50	0	21.95	21.75	21.95	2
	64QAM	1	0	21.94	21.90	21.97	2
		1	24	22.28	22.17	22.31	2
		1	49	22.12	22.00	22.23	2
		25	0	20.98	20.83	20.99	3
		25	12	21.11	21.01	21.03	3
		25	25	20.99	20.89	21.02	3
		50	0	20.99	20.78	21.05	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20825	Mid CH 21100	High CH 21375	MPR
				Frequency 2507.5 MHz	Frequency 2535 MHz	Frequency 2562.5 MHz	
7/ 15	QPSK	1	0	22.66	22.50	22.58	0
		1	37	22.86	22.76	22.87	0
		1	74	22.79	22.71	22.81	0
		36	0	22.34	22.24	22.46	1
		36	19	22.61	22.49	22.51	1
		36	39	22.35	22.31	22.50	1
		75	0	22.47	22.35	22.46	1
	16QAM	1	0	22.32	22.23	22.32	1
		1	37	22.54	22.44	22.66	1
		1	74	22.33	22.38	22.45	1
		36	0	21.91	21.71	21.97	2
		36	19	21.92	22.00	22.06	2
		36	39	21.96	21.87	22.06	2
		75	0	21.96	21.78	21.88	2
	64QAM	1	0	21.96	21.91	21.98	2
		1	37	22.29	22.16	22.28	2
		1	74	22.08	21.99	22.26	2
		36	0	21.03	20.89	20.93	3
		36	19	21.05	20.95	21.05	3
		36	39	21.02	20.96	21.04	3
		75	0	20.98	20.76	21.06	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20850	Mid CH 21100	High CH 21350	MPR
				Frequency 2510 MHz	Frequency 2535 MHz	Frequency 2560 MHz	
7/20	QPSK	1	0	22.67	22.54	22.66	0
		1	50	22.90	22.79	22.93	0
		1	99	22.81	22.72	22.85	0
		50	0	22.40	22.29	22.47	1
		50	25	22.62	22.51	22.56	1
		50	50	22.43	22.38	22.52	1
		100	0	22.48	22.39	22.49	1
	16QAM	1	0	22.35	22.24	22.38	1
		1	50	22.58	22.49	22.68	1
		1	99	22.39	22.40	22.48	1
		50	0	21.93	21.79	21.98	2
		50	25	22.00	22.04	22.11	2
		50	50	21.99	21.93	22.08	2
		100	0	21.97	21.83	21.96	2
	64QAM	1	0	22.02	21.94	22.02	2
		1	50	22.31	22.23	22.33	2
		1	99	22.14	22.07	22.28	2
		50	0	21.04	20.91	21.01	3
		50	25	21.12	21.03	21.11	3
		50	50	21.04	20.97	21.08	3
		100	0	21.00	20.84	21.07	3



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

LTE Band CA\_7C

CA_7C								
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20805	20949	QPSK	1	24	0	0	1	22.53
		16QAM	1	24	0	0	1	21.98
		64QAM	1	24	0	0	1	20.76
21006	21150	QPSK	1	24	0	0	1	22.51
		16QAM	1	24	0	0	1	22.11
		64QAM	1	24	0	0	1	20.89
21206	21350	QPSK	1	24	0	0	1	22.46
		16QAM	1	24	0	0	1	21.71
		64QAM	1	24	0	0	1	20.61
Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20975	QPSK	1	37	0	0	1	22.54
		16QAM	1	37	0	0	1	21.95
		64QAM	1	37	0	0	1	20.78
21025	21175	QPSK	1	37	0	0	1	22.54
		16QAM	1	37	0	0	1	22.08
		64QAM	1	37	0	0	1	20.84
21225	21375	QPSK	1	37	0	0	1	22.47
		16QAM	1	37	0	0	1	21.66
		64QAM	1	37	0	0	1	20.59



Test Report No.: W7L-P21100027RF16

CA_7C								
Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20945	QPSK	1	37	0	0	1	22.52
		16QAM	1	37	0	0	1	21.98
		64QAM	1	37	0	0	1	20.76
21051	21171	QPSK	1	37	0	0	1	22.51
		16QAM	1	37	0	0	1	22.11
		64QAM	1	37	0	0	1	20.89
21277	21397	QPSK	1	37	0	0	1	22.47
		16QAM	1	37	0	0	1	21.67
		64QAM	1	37	0	0	1	20.65
Combination 15MHz+20MHz (75RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20828	20999	QPSK	1	37	0	0	1	22.55
		16QAM	1	37	0	0	1	21.96
		64QAM	1	37	0	0	1	20.80
21003	21174	QPSK	1	37	0	0	1	22.54
		16QAM	1	37	0	0	1	22.12
		64QAM	1	37	0	0	1	20.85
21179	21350	QPSK	1	37	0	0	1	22.41
		16QAM	1	37	0	0	1	21.72
		64QAM	1	37	0	0	1	20.64

CA_7C								
Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	20994	QPSK	1	50	0	0	1	22.53
		16QAM	1	50	0	0	1	21.99
		64QAM	1	50	0	0	1	20.76
21051	21195	QPSK	1	50	0	0	1	22.52
		16QAM	1	50	0	0	1	22.08
		64QAM	1	50	0	0	1	20.89
21251	21395	QPSK	1	50	0	0	1	22.48
		16QAM	1	50	0	0	1	21.66
		64QAM	1	50	0	0	1	20.65
Combination 20MHz+15MHz (100RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	21021	QPSK	1	50	0	0	1	22.56
		16QAM	1	50	0	0	1	22.00
		64QAM	1	50	0	0	1	20.82
21026	21197	QPSK	1	50	0	0	1	22.58
		16QAM	1	50	0	0	1	22.14
		64QAM	1	50	0	0	1	20.91
21201	21372	QPSK	1	50	0	0	1	22.49
		16QAM	1	50	0	0	1	21.73
		64QAM	1	50	0	0	1	20.67



Test Report No.: W7L-P21100027RF16

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	50	0	0	1	22.68
		16QAM	1	50	0	0	1	22.07
		64QAM	1	50	0	0	1	21.21
21001	21199	QPSK	1	50	0	0	1	22.63
		16QAM	1	50	0	0	1	22.00
		64QAM	1	50	0	0	1	21.20
21152	21350	QPSK	1	50	0	0	1	22.50
		16QAM	1	50	0	0	1	21.95
		64QAM	1	50	0	0	1	21.13



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VERITAS**

**Test Report No.: W7L-P21100027RF16**

**LTE Band 38**

Band/BW	Modulation	RB Size	RB Offset	Low CH 37775	Mid CH 38000	High CH 38225	MPR
				Frequency 2572.5 MHz	Frequency 2595 MHz	Frequency 2617.5MHz	
38/ 5	QPSK	1	0	23.93	23.83	23.77	0
		1	12	24.10	23.98	23.95	0
		1	24	23.94	23.87	23.87	0
		12	0	23.05	22.98	22.96	1
		12	6	23.08	23.09	22.90	1
		12	13	23.12	23.11	23.09	1
		25	0	23.10	23.10	22.97	1
	16QAM	1	0	23.04	23.00	22.97	1
		1	12	23.16	23.18	23.14	1
		1	24	23.05	23.05	22.99	1
		12	0	22.13	22.06	22.03	2
		12	6	22.14	22.27	22.10	2
		12	13	22.14	22.15	22.13	2
		25	0	22.15	22.05	22.00	2
	64QAM	1	0	21.76	21.75	21.66	2
		1	12	21.88	21.91	21.77	2
		1	24	21.73	21.78	21.78	2
		12	0	21.21	21.12	20.99	3
		12	6	21.18	21.21	21.08	3
		12	13	21.18	21.15	21.03	3
		25	0	21.11	21.04	21.06	3



**Test Report No.: W7L-P21100027RF16**

Band/BW	Modulation	RB Size	RB Offset	Low CH 37800	Mid CH 38000	High CH 38200	MPR
				Frequency 2575 MHz	Frequency 2595 MHz	Frequency 2615 MHz	
38/ 10	QPSK	1	0	23.90	23.86	23.77	0
		1	12	24.10	23.98	23.96	0
		1	24	23.91	23.91	23.83	0
		12	0	23.06	22.97	22.99	1
		12	6	23.14	23.03	22.90	1
		12	13	23.10	23.08	23.08	1
		25	0	23.15	23.10	22.94	1
	16QAM	1	0	23.04	22.97	22.93	1
		1	12	23.21	23.14	23.17	1
		1	24	23.05	23.06	22.96	1
		12	0	22.15	22.04	22.09	2
		12	6	22.18	22.21	22.15	2
		12	13	22.13	22.16	22.10	2
		25	0	22.19	22.04	22.04	2
	64QAM	1	0	21.75	21.76	21.63	2
		1	12	21.93	21.87	21.81	2
		1	24	21.79	21.72	21.75	2
		12	0	21.19	21.09	21.05	3
		12	6	21.25	21.20	21.02	3
		12	13	21.17	21.12	21.05	3
		25	0	21.16	21.00	21.07	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 37825	Mid CH 38000	High CH 38175	MPR
				Frequency 2577.5 MHz	Frequency 2595 MHz	Frequency 2612.5MHz	
38/ 15	QPSK	1	0	23.97	23.86	23.74	0
		1	12	24.08	24.03	23.91	0
		1	24	23.97	23.94	23.84	0
		12	0	23.03	22.98	23.00	1
		12	6	23.15	23.08	22.90	1
		12	13	23.08	23.09	23.08	1
		25	0	23.15	23.08	22.99	1
	16QAM	1	0	23.08	23.04	22.93	1
		1	12	23.20	23.15	23.17	1
		1	24	23.01	23.11	22.98	1
		12	0	22.19	22.04	22.10	2
		12	6	22.12	22.25	22.11	2
		12	13	22.18	22.14	22.13	2
		25	0	22.20	22.07	21.97	2
	64QAM	1	0	21.77	21.77	21.64	2
		1	12	21.94	21.86	21.78	2
		1	24	21.75	21.71	21.78	2
		12	0	21.24	21.15	20.99	3
		12	6	21.19	21.14	21.04	3
		12	13	21.20	21.19	21.07	3
		25	0	21.15	20.98	21.08	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 37850	Mid CH 38000	High CH 38150	MPR
				Frequency 2580 MHz	Frequency 2595 MHz	Frequency 2610 MHz	
38/ 20	QPSK	1	0	23.98	23.90	23.82	0
		1	12	24.12	24.06	23.97	0
		1	24	23.99	23.95	23.88	0
		12	0	23.09	23.03	23.01	1
		12	6	23.16	23.10	22.95	1
		12	13	23.16	23.16	23.10	1
		25	0	23.16	23.12	23.02	1
	16QAM	1	0	23.11	23.05	22.99	1
		1	12	23.24	23.20	23.19	1
		1	24	23.07	23.13	23.01	1
		12	0	22.21	22.12	22.11	2
		12	6	22.20	22.29	22.16	2
		12	13	22.21	22.20	22.15	2
		25	0	22.21	22.12	22.05	2
	64QAM	1	0	21.83	21.80	21.68	2
		1	12	21.96	21.93	21.83	2
		1	24	21.81	21.79	21.80	2
		12	0	21.25	21.17	21.07	3
		12	6	21.26	21.22	21.10	3
		12	13	21.22	21.20	21.11	3
		25	0	21.17	21.06	21.09	3



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VERITAS

Test Report No.: W7L-P21100027RF16

LTE Band CA\_38C

CA_38C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
37825	37975	QPSK	1	37	0	0	1	23.66
		16QAM	1	37	0	0	1	23.04
		64QAM	1	37	0	0	1	22.10
37925	38075	QPSK	1	37	0	0	1	23.76
		16QAM	1	37	0	0	1	22.86
		64QAM	1	37	0	0	1	21.87
38025	38175	QPSK	1	37	0	0	1	23.85
		16QAM	1	37	0	0	1	22.93
		64QAM	1	37	0	0	1	21.88
Combination 20MHz+20MHz (100RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	50	0	0	1	23.91
		16QAM	1	50	0	0	1	23.12
		64QAM	1	50	0	0	1	22.01
37901	38099	QPSK	1	50	0	0	1	23.92
		16QAM	1	50	0	0	1	22.82
		64QAM	1	50	0	0	1	21.96
37952	38150	QPSK	1	50	0	0	1	24.05
		16QAM	1	50	0	0	1	22.83
		64QAM	1	50	0	0	1	21.78



**BUREAU  
VERITAS**

**Test Report No.: W7L-P21100027RF16**

LTE Band 41

Band/BW	Modulation	RB Size	RB Offset	Low CH (39675)	Mid CH (40620)	High CH (41565)	MPR
				Frequency (2498.5)MHz	Frequency (2593)MHz	Frequency (2687.5)MHz	
41/ 5	QPSK	1	0	23.97	23.79	23.72	0
		1	12	24.14	23.99	23.88	0
		1	24	23.97	23.88	23.73	0
		12	0	23.05	22.96	22.84	1
		12	6	23.20	23.08	22.87	1
		12	13	23.07	23.09	22.89	1
		25	0	23.11	23.03	22.89	1
	16QAM	1	0	23.07	22.95	22.91	1
		1	12	23.19	23.15	23.06	1
		1	24	23.03	23.02	22.83	1
		12	0	22.14	22.06	22.00	2
		12	6	22.19	22.21	22.06	2
		12	13	22.16	22.18	22.05	2
		25	0	22.17	22.00	21.98	2
	64QAM	1	0	21.80	21.75	21.60	2
		1	12	22.02	21.97	21.79	2
		1	24	21.75	21.79	21.72	2
		12	0	21.19	20.95	20.98	3
		12	6	21.22	21.20	21.01	3
		12	13	21.16	21.01	20.97	3
		25	0	21.15	21.08	20.93	3

Band/BW	Modulation	RB Size	RB Offset	Low CH (39700)	Mid CH (40620)	High CH (41540)	MPR
				Frequency (2501)MHz	Frequency (2593)MHz	Frequency (2685)MHz	
41/ 10	QPSK	1	0	23.94	23.79	23.70	0
		1	24	24.14	24.00	23.93	0
		1	49	23.94	23.84	23.71	0
		25	0	23.06	22.99	22.88	1
		25	12	23.26	23.08	22.93	1
		25	25	23.05	23.08	22.90	1
		50	0	23.16	23.00	22.89	1
	16QAM	1	0	23.07	22.91	22.91	1
		1	24	23.24	23.18	23.05	1
		1	49	23.03	22.99	22.80	1
		25	0	22.16	22.12	21.96	2
		25	12	22.23	22.26	22.05	2
		25	25	22.15	22.15	22.00	2
		50	0	22.21	22.04	21.91	2
	64QAM	1	0	21.79	21.72	21.63	2
		1	24	22.07	22.01	21.76	2
		1	49	21.81	21.76	21.67	2
		25	0	21.17	21.01	20.93	3
		25	12	21.29	21.14	21.03	3
		25	25	21.15	21.03	20.99	3
		50	0	21.20	21.09	20.95	3



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Band/BW	Modulation	RB Size	RB Offset	Low CH (39725)	Mid CH (40620)	High CH (41515)	MPR
				Frequency (2503.5)MHz	Frequency (2593)MHz	Frequency (2682.5)MHz	
41/ 15	QPSK	1	0	24.01	23.76	23.72	0
		1	37	24.12	23.95	23.93	0
		1	74	24.00	23.85	23.73	0
		36	0	23.03	23.00	22.90	1
		36	19	23.27	23.08	22.88	1
		36	39	23.03	23.08	22.93	1
		75	0	23.16	23.05	22.86	1
	16QAM	1	0	23.11	22.91	22.94	1
		1	37	23.23	23.18	23.00	1
		1	74	22.99	23.01	22.84	1
		36	0	22.20	22.13	22.01	2
		36	19	22.17	22.22	22.06	2
		36	39	22.20	22.18	22.05	2
		75	0	22.22	21.97	21.93	2
	64QAM	1	0	21.81	21.73	21.64	2
		1	37	22.08	21.98	21.76	2
		1	74	21.77	21.79	21.72	2
		36	0	21.22	20.95	20.97	3
		36	19	21.23	21.16	21.02	3
		36	39	21.18	21.05	20.99	3
		75	0	21.19	21.10	20.98	3

Band/BW	Modulation	RB Size	RB Offset	Low CH (39750)	Mid CH (40620)	High CH (41490)	MPR
				Frequency (2506)MHz	Frequency (2593)MHz	Frequency (2680)MHz	
41/ 20	QPSK	1	0	24.02	23.84	23.78	0
		1	50	24.16	24.01	23.95	0
		1	99	24.02	23.89	23.79	0
		50	0	23.09	23.01	22.91	1
		50	25	23.28	23.13	22.95	1
		50	50	23.11	23.10	22.95	1
		100	0	23.17	23.08	22.91	1
	16QAM	1	0	23.14	22.97	22.96	1
		1	50	23.27	23.20	23.07	1
		1	99	23.05	23.04	22.88	1
		50	0	22.22	22.14	22.02	2
		50	25	22.25	22.27	22.11	2
		50	50	22.23	22.20	22.07	2
		100	0	22.23	22.05	21.99	2
	64QAM	1	0	21.87	21.77	21.65	2
		1	50	22.10	22.03	21.84	2
		1	99	21.83	21.81	21.73	2
		50	0	21.23	21.03	21.00	3
		50	25	21.30	21.22	21.06	3
		50	50	21.20	21.09	21.01	3
		100	0	21.21	21.11	21.01	3



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EIRP  
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**WCDMA IV**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	24.18	-1	21.03	126.77	1
1413	1732.6	24.15	-1	21	125.89	1
1513	1752.6	24.04	-1	20.89	122.74	1

**LTE BAND 4**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	24.1	-1	23.1	204.17	1
20175	1732.5	24.03	-1	23.03	200.91	1
20393	1754.3	24.01	-1	23.01	199.99	1

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.38	-1	22.38	172.98	1
20175	1732.5	23.3	-1	22.3	169.82	1
20393	1754.3	23.4	-1	22.4	173.78	1

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.35	-1	21.35	136.46	1
20175	1732.5	22.28	-1	21.28	134.28	1
20393	1754.3	22.31	-1	21.31	135.21	1

**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	24.06	-1	23.06	202.30	1
20175	1732.5	24.02	-1	23.02	200.45	1
20385	1753.5	24.01	-1	23.01	199.99	1

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.35	-1	22.35	171.79	1
20175	1732.5	23.33	-1	22.33	171	1
20385	1753.5	22.05	-1	21.05	127.35	1

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.38	-1	21.38	137.4	1
20175	1732.5	22.22	-1	21.22	132.43	1
20385	1753.5	22.3	-1	21.3	134.9	1

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	24.11	-1	23.11	204.64	1
20175	1732.5	23.99	-1	22.99	199.07	1
20375	1752.5	24.01	-1	23.01	199.99	1

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.32	-1	22.32	170.61	1
20175	1732.5	23.36	-1	22.36	172.19	1
20375	1752.5	23.37	-1	22.37	172.58	1

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.35	-1	21.35	136.46	1
20175	1732.5	22.28	-1	21.28	134.28	1
20375	1752.5	22.3	-1	21.3	134.9	1

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	24.11	-1	23.11	204.64	1
20175	1732.5	23.99	-1	22.99	199.07	1
20350	1750	24.02	-1	23.02	200.45	1

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.37	-1	22.37	172.58	1
20175	1732.5	23.32	-1	22.32	170.61	1
20350	1750	23.4	-1	22.4	173.78	1

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.4	-1	21.4	138.04	1
20175	1732.5	22.24	-1	21.24	133.05	1
20350	1750	22.34	-1	21.34	136.14	1

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	24.09	-1	23.09	203.70	1
20175	1732.5	24.04	-1	23.04	201.37	1
20325	1747.5	23.97	-1	22.97	198.15	1

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.36	-1	22.36	172.19	1
20175	1732.5	23.33	-1	22.33	171	1
20325	1747.5	23.4	-1	22.4	173.78	1

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.41	-1	21.41	138.36	1
20175	1732.5	22.23	-1	21.23	132.74	1
20325	1747.5	22.31	-1	21.31	135.21	1

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	24.13	-1	23.13	205.59	1
20175	1732.5	24.07	-1	23.07	202.77	1
20300	1745	24.03	-1	23.03	200.91	1

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.4	-1	22.4	173.78	1
20175	1732.5	23.38	-1	22.38	172.98	1
20300	1745	23.42	-1	22.42	174.58	1

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.43	-1	21.43	139	1
20175	1732.5	22.3	-1	21.3	134.9	1
20300	1745	22.36	-1	21.36	136.77	1

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

**LTE BAND 7**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	24.1	-0.9	23.2	208.93	2
21100	2535.0	24.01	-0.9	23.11	204.64	2
21425	2567.5	24.13	-0.9	23.23	210.38	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	23.33	-0.9	22.43	174.98	2
21100	2535.0	23.42	-0.9	22.52	178.65	2
21425	2567.5	23.45	-0.9	22.55	179.89	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.27	-0.9	21.37	137.09	2
21100	2535	22.24	-0.9	21.34	136.14	2
21425	2567.5	22.26	-0.9	21.36	136.77	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	24.1	-0.9	23.2	208.93	2
21100	2535.0	24.01	-0.9	23.11	204.64	2
21400	2565.0	24.14	-0.9	23.24	210.86	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	23.38	-0.9	22.48	177.01	2
21100	2535.0	23.38	-0.9	22.48	177.01	2
21400	2565.0	23.48	-0.9	22.58	181.13	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505	22.32	-0.9	21.42	138.68	2
21100	2535	22.2	-0.9	21.3	134.9	2
21400	2565	22.27	-0.9	21.37	137.09	2

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	24.08	-0.9	23.18	207.97	2
21100	2535.0	24.06	-0.9	23.16	207.01	2
21375	2562.5	24.09	-0.9	23.19	208.45	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	23.37	-0.9	22.47	176.6	2
21100	2535.0	23.39	-0.9	22.49	177.42	2
21375	2562.5	23.48	-0.9	22.58	181.13	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.33	-0.9	21.43	139	2
21100	2535	22.19	-0.9	21.29	134.59	2
21375	2562.5	22.26	-0.9	21.36	136.77	2



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	24.12	-0.9	23.22	209.89	2
21100	2535.0	24.09	-0.9	23.19	208.45	2
21350	2560.0	24.15	-0.9	23.25	211.35	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	23.41	-0.9	22.51	178.24	2
21100	2535.0	23.44	-0.9	22.54	179.47	2
21350	2560.0	23.5	-0.9	22.6	181.97	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	22.35	-0.9	21.45	139.64	2
21100	2535	22.26	-0.9	21.36	136.77	2
21350	2560	22.29	-0.9	21.39	137.72	2

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



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**LTE BAND CA\_7C**

**CHANNEL BANDWIDTH: 10MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	23.82	-0.9	22.92	195.88	2
21006	2525.6	21150	2540.0	23.72	-0.9	22.82	191.43	2
21206	2545.6	21350	2560.0	23.77	-0.9	22.87	193.64	2

**CHANNEL BANDWIDTH: 10MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	23.37	-0.9	22.47	176.6	2
21006	2525.6	21150	2540.0	23.24	-0.9	22.34	171.4	2
21206	2545.6	21350	2560.0	23.16	-0.9	22.26	168.27	2

**CHANNEL BANDWIDTH: 10MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	22.24	-0.9	21.34	136.14	2
21006	2525.6	21150	2540.0	22.21	-0.9	21.31	135.21	2
21206	2545.6	21350	2560.0	22.17	-0.9	21.27	133.97	2



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VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 15MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	23.81	-0.9	22.91	195.43	2
21051	2530.1	21171	2542.1	23.72	-0.9	22.82	191.43	2
21227	2552.7	21397	2564.7	23.78	-0.9	22.88	194.09	2

**CHANNEL BANDWIDTH: 15MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	23.37	-0.9	22.47	176.6	2
21051	2530.1	21171	2542.1	23.24	-0.9	22.34	171.4	2
21227	2552.7	21397	2564.7	23.12	-0.9	22.22	166.72	2

**CHANNEL BANDWIDTH: 15MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	22.24	-0.9	21.34	136.14	2
21051	2530.1	21171	2542.1	22.21	-0.9	21.31	135.21	2
21227	2552.7	21397	2564.7	22.21	-0.9	21.31	135.21	2



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Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 15MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	2522.5	2502.5	23.33	-0.8	22.53	179.06	2
21025	2527.5	2542.5	2535.0	23.67	-0.8	22.87	193.64	2
21225	2547.5	2562.5	2567.5	23.53	-0.8	22.73	187.50	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	2522.5	2502.5	22.69	-0.8	21.89	154.53	2
21025	2527.5	2542.5	2535.0	23.01	-0.8	22.21	166.34	2
21225	2547.5	2562.5	2567.5	22.82	-0.8	22.02	159.22	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	2522.5	2502.5	21.93	-0.8	21.13	129.72	2
21025	2527.5	2542.5	2535.0	22.1	-0.8	21.3	134.9	2
21225	2547.5	2562.5	2567.5	21.99	-0.8	21.19	131.52	2



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Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 15MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20975	2522.5	23.84	-0.9	22.94	196.79	2
21003	2525.3	21175	2542.5	23.75	-0.9	22.85	192.75	2
21179	2542.9	21375	2562.5	23.72	-0.9	22.82	191.43	2

**CHANNEL BANDWIDTH: 15MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20975	2522.5	23.35	-0.9	22.45	175.79	2
21003	2525.3	21175	2542.5	23.25	-0.9	22.35	171.79	2
21179	2542.9	21375	2562.5	23.17	-0.9	22.27	168.66	2

**CHANNEL BANDWIDTH: 15MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20975	2522.5	22.28	-0.9	21.38	137.4	2
21003	2525.3	21175	2542.5	22.17	-0.9	21.27	133.97	2
21179	2542.9	21375	2562.5	22.2	-0.9	21.3	134.9	2



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Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	23.82	-0.9	22.92	195.88	2
21051	2530.1	21195	2544.5	23.73	-0.9	22.83	191.87	2
21251	2550.1	21395	2564.5	23.79	-0.9	22.89	194.54	2

**CHANNEL BANDWIDTH: 20MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	23.38	-0.9	22.48	177.01	2
21051	2530.1	21195	2544.5	23.21	-0.9	22.31	170.22	2
21251	2550.1	21395	2564.5	23.11	-0.9	22.21	166.34	2

**CHANNEL BANDWIDTH: 20MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	22.24	-0.9	21.34	136.14	2
21051	2530.1	21195	2544.5	22.21	-0.9	21.31	135.21	2
21251	2550.1	21395	2564.5	22.21	-0.9	21.31	135.21	2



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Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	23.85	-0.9	22.95	197.24	2
21026	2527.6	21197	2544.7	23.79	-0.9	22.89	194.54	2
21201	2545.1	21372	2562.2	23.8	-0.9	22.9	194.98	2

**CHANNEL BANDWIDTH: 20MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	23.39	-0.9	22.49	177.42	2
21026	2527.6	21197	2544.7	23.27	-0.9	22.37	172.58	2
21201	2545.1	21372	2562.2	23.18	-0.9	22.28	169.04	2

**CHANNEL BANDWIDTH: 20MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	22.3	-0.9	21.4	138.04	2
21026	2527.6	21197	2544.7	22.23	-0.9	21.33	135.83	2
21201	2545.1	21372	2562.2	22.23	-0.9	21.33	135.83	2



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Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	23.81	-0.9	22.91	195.43	2
21001	2525.1	21199	2544.9	23.81	-0.9	22.91	195.43	2
21206	2540.2	21350	2560.0	23.87	-0.9	22.97	198.15	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	23.23	-0.9	22.33	171	2
21001	2525.1	21199	2544.9	23.49	-0.9	22.59	181.55	2
21206	2540.2	21350	2560.0	23.27	-0.9	22.37	172.58	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	22.35	-0.9	21.45	139.64	2
21001	2525.1	21199	2544.9	22.5	-0.9	21.6	144.54	2
21206	2540.2	21350	2560.0	22.46	-0.9	21.56	143.22	2



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Test Report No.: W7L-P21100027RF16

**LTE BAND 38**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	23.99	-0.8	23.19	208.45	2
38000	2595.0	23.83	-0.8	23.03	200.91	2
38225	2617.5	23.91	-0.8	23.11	204.64	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	22.97	-0.8	22.17	164.82	2
38000	2595.0	23.06	-0.8	22.26	168.27	2
38225	2617.5	22.99	-0.8	22.19	165.58	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	21.79	-0.8	20.99	125.6	2
38000	2595	21.83	-0.8	21.03	126.77	2
38225	2617.5	21.84	-0.8	21.04	127.06	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	23.99	-0.8	23.19	208.45	2
38000	2595.0	23.83	-0.8	23.03	200.91	2
38200	2615.0	23.91	-0.8	23.11	204.64	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	23.02	-0.8	22.22	166.72	2
38000	2595.0	23.02	-0.8	22.22	166.72	2
38200	2615.0	23.02	-0.8	22.22	166.72	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575	21.83	-0.8	21.03	126.77	2
38000	2595	21.79	-0.8	20.99	125.6	2
38200	2615	21.81	-0.8	21.01	126.18	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	23.97	-0.8	23.17	207.49	2
38000	2595.0	23.88	-0.8	23.08	203.24	2
38175	2612.5	23.88	-0.8	23.08	203.24	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	23.01	-0.8	22.21	166.34	2
38000	2595.0	23.03	-0.8	22.23	167.11	2
38175	2612.5	23.02	-0.8	22.22	166.72	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	21.84	-0.8	21.04	127.06	2
38000	2595	21.78	-0.8	20.98	125.31	2
38175	2612.5	21.82	-0.8	21.02	126.47	2



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Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	24.01	-0.8	23.21	209.41	2
38000	2595.0	23.91	-0.8	23.11	204.64	2
38150	2610.0	23.96	-0.8	23.16	207.01	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	23.05	-0.8	22.25	167.88	2
38000	2595.0	23.08	-0.8	22.28	169.04	2
38150	2610.0	23.04	-0.8	22.24	167.49	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580	21.86	-0.8	21.06	127.64	2
38000	2595	21.85	-0.8	21.05	127.35	2
38150	2610	21.86	-0.8	21.06	127.64	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**LTE BAND CA\_38C**

**CHANNEL BANDWIDTH: 15MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	38048	2599.8	23.33	-0.8	22.53	179.06	2
37901	2585.1	38048	2604.9	23.67	-0.8	22.87	193.64	2
37952	2590.2	38150	2610	23.53	-0.8	22.73	187.5	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	38048	2599.8	22.69	-0.8	21.89	154.53	2
37901	2585.1	38099	2604.9	23.01	-0.8	22.21	166.34	2
37952	2590.2	38150	2610	22.82	-0.8	22.02	159.22	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	38048	2599.8	21.93	-0.8	21.13	129.72	2
37901	2585.1	38099	2604.9	22.1	-0.8	21.3	134.9	2
37952	2590.2	38150	2610	21.99	-0.8	21.19	131.52	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	23.4	-0.8	22.6	181.97	2
37925	2587.5	38075	2602.5	23.86	-0.8	23.06	202.3	2
38025	2597.5	38175	2612.5	23.62	-0.8	22.82	191.43	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	22.83	-0.8	22.03	159.59	2
37925	2587.5	38075	2602.5	22.87	-0.8	22.07	161.06	2
38025	2597.5	38175	2612.5	22.71	-0.8	21.91	155.24	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	21.97	-0.8	21.17	130.92	2
37925	2587.5	38075	2602.5	21.95	-0.8	21.15	130.32	2
38025	2597.5	38175	2612.5	21.93	-0.8	21.13	129.72	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**LTE BAND 41**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	24.12	-0.5	23.62	230.14	2
40620	2593.0	24.02	-0.5	23.52	224.91	2
41565	2687.5	23.8	-0.5	23.3	213.80	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	23.13	-0.5	22.63	183.23	2
40620	2593.0	23.13	-0.5	22.63	183.23	2
41565	2687.5	23.13	-0.5	22.63	183.23	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	21.96	-0.5	21.46	139.96	2
40620	2593.0	21.9	-0.5	21.4	138.04	2
41565	2687.5	21.84	-0.5	21.34	136.14	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	24.12	-0.5	23.62	230.14	2
40620	2593.0	24.03	-0.5	23.53	225.42	2
41540	2685.0	23.85	-0.5	23.35	216.27	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	23.18	-0.5	22.68	185.35	2
40620	2593.0	23.16	-0.5	22.66	184.5	2
41540	2685.0	23.12	-0.5	22.62	182.81	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	22.01	-0.5	21.51	141.58	2
40620	2593.0	21.94	-0.5	21.44	139.32	2
41540	2685.0	21.81	-0.5	21.31	135.21	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	24.1	-0.5	23.6	229.09	2
40620	2593.0	23.98	-0.5	23.48	222.84	2
41515	2682.5	23.85	-0.5	23.35	216.27	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	23.17	-0.5	22.67	184.93	2
40620	2593.0	23.16	-0.5	22.66	184.5	2
41515	2682.5	23.07	-0.5	22.57	180.72	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	22.02	-0.5	21.52	141.91	2
40620	2593.0	21.91	-0.5	21.41	138.36	2
41515	2682.5	21.81	-0.5	21.31	135.21	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	24.14	-0.5	23.64	231.21	2
40620	2593.0	24.04	-0.5	23.54	225.94	2
41490	2680.0	23.87	-0.5	23.37	217.27	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	23.21	-0.5	22.71	186.64	2
40620	2593.0	23.18	-0.5	22.68	185.35	2
41490	2680.0	23.14	-0.5	22.64	183.65	2

**CHANNEL BANDWIDTH: 20 MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	22.04	-0.5	21.54	142.56	2
40620	2593.0	21.96	-0.5	21.46	139.96	2
41490	2680.0	21.89	-0.5	21.39	137.72	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

Ant1:

**WCDMA IV**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	23.04	-1.1	19.79	95.28	1
1413	1732.6	22.95	-1.1	19.7	93.33	1
1513	1752.6	22.95	-1.1	19.7	93.33	1

**LTE BAND 4**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.03	-1.1	21.93	155.96	1
20175	1732.5	22.95	-1.1	21.85	153.11	1
20393	1754.3	22.86	-1.1	21.76	149.97	1

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.74	-1.1	21.64	145.88	1
20175	1732.5	22.6	-1.1	21.5	141.25	1
20393	1754.3	22.57	-1.1	21.47	140.28	1

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.4	-1.1	21.3	134.9	1
20175	1732.5	22.36	-1.1	21.26	133.66	1
20393	1754.3	22.25	-1.1	21.15	130.32	1

**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.99	-1.1	21.89	154.53	1
20175	1732.5	22.96	-1.1	21.86	153.46	1
20385	1753.5	22.86	-1.1	21.76	149.97	1

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.71	-1.1	21.61	144.88	1
20175	1732.5	22.65	-1.1	21.55	142.89	1
20385	1753.5	21.98	-1.1	20.88	122.46	1

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.43	-1.1	21.33	135.83	1
20175	1732.5	22.36	-1.1	21.26	133.66	1
20385	1753.5	22.24	-1.1	21.14	130.02	1

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.04	-1.1	21.94	156.31	1
20175	1732.5	22.93	-1.1	21.83	152.41	1
20375	1752.5	22.86	-1.1	21.76	149.97	1

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.68	-1.1	21.58	143.88	1
20175	1732.5	22.66	-1.1	21.56	143.22	1
20375	1752.5	22.54	-1.1	21.44	139.32	1

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.4	-1.1	21.3	134.9	1
20175	1732.5	22.36	-1.1	21.26	133.66	1
20375	1752.5	22.24	-1.1	21.14	130.02	1

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.04	-1.1	21.94	156.31	1
20175	1732.5	22.93	-1.1	21.83	152.41	1
20350	1750	22.87	-1.1	21.77	150.31	1

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.73	-1.1	21.63	145.55	1
20175	1732.5	22.62	-1.1	21.52	141.91	1
20350	1750	22.57	-1.1	21.47	140.28	1

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.45	-1.1	21.35	136.46	1
20175	1732.5	22.34	-1.1	21.24	133.05	1
20350	1750	22.28	-1.1	21.18	131.22	1

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.02	-1.1	21.92	155.6	1
20175	1732.5	22.98	-1.1	21.88	154.17	1
20325	1747.5	22.82	-1.1	21.72	148.59	1

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.72	-1.1	21.62	145.21	1
20175	1732.5	22.65	-1.1	21.55	142.89	1
20325	1747.5	22.57	-1.1	21.47	140.28	1



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**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.46	-1.1	21.36	136.77	1
20175	1732.5	22.35	-1.1	21.25	133.35	1
20325	1747.5	22.25	-1.1	21.15	130.32	1

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.06	-1.1	21.96	157.04	1
20175	1732.5	23.01	-1.1	21.91	155.24	1
20300	1745	22.88	-1.1	21.78	150.66	1

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.76	-1.1	21.66	146.55	1
20175	1732.5	22.68	-1.1	21.58	143.88	1
20300	1745	22.59	-1.1	21.49	140.93	1

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.48	-1.1	21.38	137.4	1
20175	1732.5	22.38	-1.1	21.28	134.28	1
20300	1745	22.3	-1.1	21.2	131.83	1

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

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**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.88	-0.7	22.18	165.2	2
21100	2535.0	22.71	-0.7	22.01	158.85	2
21425	2567.5	22.91	-0.7	22.21	166.34	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.5	-0.7	21.8	151.36	2
21100	2535.0	22.47	-0.7	21.77	150.31	2
21425	2567.5	22.63	-0.7	21.93	155.96	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.23	-0.7	21.53	142.23	2
21100	2535	22.21	-0.7	21.51	141.58	2
21425	2567.5	22.27	-0.7	21.57	143.55	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	22.88	-0.7	22.18	165.2	2
21100	2535.0	22.71	-0.7	22.01	158.85	2
21400	2565.0	22.92	-0.7	22.22	166.72	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	22.55	-0.7	21.85	153.11	2
21100	2535.0	22.43	-0.7	21.73	148.94	2
21400	2565.0	22.66	-0.7	21.96	157.04	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505	22.28	-0.7	21.58	143.88	2
21100	2535	22.17	-0.7	21.47	140.28	2
21400	2565	22.31	-0.7	21.61	144.88	2

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.86	-0.7	22.16	164.44	2
21100	2535.0	22.76	-0.7	22.06	160.69	2
21375	2562.5	22.87	-0.7	22.17	164.82	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.54	-0.7	21.84	152.76	2
21100	2535.0	22.44	-0.7	21.74	149.28	2
21375	2562.5	22.66	-0.7	21.96	157.04	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.29	-0.7	21.59	144.21	2
21100	2535	22.16	-0.7	21.46	139.96	2
21375	2562.5	22.28	-0.7	21.58	143.88	2



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	22.9	-0.7	22.2	165.96	2
21100	2535.0	22.79	-0.7	22.09	161.81	2
21350	2560.0	22.93	-0.7	22.23	167.11	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	22.58	-0.7	21.88	154.17	2
21100	2535.0	22.49	-0.7	21.79	151.01	2
21350	2560.0	22.68	-0.7	21.98	157.76	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	22.31	-0.7	21.61	144.88	2
21100	2535	22.23	-0.7	21.53	142.23	2
21350	2560	22.33	-0.7	21.63	145.55	2

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



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**LTE BAND CA\_7C**

**CHANNEL BANDWIDTH: 10MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	22.53	-0.7	21.83	152.41	2
21006	2525.6	21150	2540.0	22.51	-0.7	21.81	151.71	2
21206	2545.6	21350	2560.0	22.46	-0.7	21.76	149.97	2

**CHANNEL BANDWIDTH: 10MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	21.98	-0.7	21.28	134.28	2
21006	2525.6	21150	2540.0	22.11	-0.7	21.41	138.36	2
21206	2545.6	21350	2560.0	21.71	-0.7	21.01	126.18	2

**CHANNEL BANDWIDTH: 10MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	20.76	-0.7	20.06	101.39	2
21006	2525.6	21150	2540.0	20.89	-0.7	20.19	104.47	2
21206	2545.6	21350	2560.0	20.61	-0.7	19.91	97.95	2



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**CHANNEL BANDWIDTH: 15MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	22.52	-0.7	21.82	152.05	2
21051	2530.1	21171	2542.1	22.51	-0.7	21.81	151.71	2
21227	2552.7	21397	2564.7	22.47	-0.7	21.77	150.31	2

**CHANNEL BANDWIDTH: 15MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	21.98	-0.7	21.28	134.28	2
21051	2530.1	21171	2542.1	22.11	-0.7	21.41	138.36	2
21227	2552.7	21397	2564.7	21.67	-0.7	20.97	125.03	2

**CHANNEL BANDWIDTH: 15MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	20.76	-0.7	20.06	101.39	2
21051	2530.1	21171	2542.1	20.89	-0.7	20.19	104.47	2
21227	2552.7	21397	2564.7	20.65	-0.7	19.95	98.86	2



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**CHANNEL BANDWIDTH: 15MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	2522.5	2502.5	22.54	-0.7	21.84	152.76	2
21025	2527.5	2542.5	2535.0	22.54	-0.7	21.84	152.76	2
21225	2547.5	2562.5	2567.5	22.47	-0.7	21.77	150.31	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	2522.5	2502.5	21.95	-0.7	21.25	133.35	2
21025	2527.5	2542.5	2535.0	22.08	-0.7	21.38	137.4	2
21225	2547.5	2562.5	2567.5	21.66	-0.7	20.96	124.74	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	2522.5	2502.5	20.78	-0.7	20.08	101.86	2
21025	2527.5	2542.5	2535.0	20.84	-0.7	20.14	103.28	2
21225	2547.5	2562.5	2567.5	20.59	-0.7	19.89	97.5	2



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**CHANNEL BANDWIDTH: 15MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20975	2522.5	22.55	-0.7	21.85	153.11	2
21003	2525.3	21175	2542.5	22.54	-0.7	21.84	152.76	2
21179	2542.9	21375	2562.5	22.41	-0.7	21.71	148.25	2

**CHANNEL BANDWIDTH: 15MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20975	2522.5	21.96	-0.7	21.26	133.66	2
21003	2525.3	21175	2542.5	22.12	-0.7	21.42	138.68	2
21179	2542.9	21375	2562.5	21.72	-0.7	21.02	126.47	2

**CHANNEL BANDWIDTH: 15MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20975	2522.5	20.8	-0.7	20.1	102.33	2
21003	2525.3	21175	2542.5	20.85	-0.7	20.15	103.51	2
21179	2542.9	21375	2562.5	20.64	-0.7	19.94	98.63	2



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**CHANNEL BANDWIDTH: 20MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	22.53	-0.7	21.83	152.41	2
21051	2530.1	21195	2544.5	22.52	-0.7	21.82	152.05	2
21251	2550.1	21395	2564.5	22.48	-0.7	21.78	150.66	2

**CHANNEL BANDWIDTH: 20MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	21.99	-0.7	21.29	134.59	2
21051	2530.1	21195	2544.5	22.08	-0.7	21.38	137.4	2
21251	2550.1	21395	2564.5	21.66	-0.7	20.96	124.74	2

**CHANNEL BANDWIDTH: 20MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	20.76	-0.7	20.06	101.39	2
21051	2530.1	21195	2544.5	20.89	-0.7	20.19	104.47	2
21251	2550.1	21395	2564.5	20.65	-0.7	19.95	98.86	2



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**CHANNEL BANDWIDTH: 20MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	22.56	-0.7	21.86	153.46	2
21026	2527.6	21197	2544.7	22.58	-0.7	21.88	154.17	2
21201	2545.1	21372	2562.2	22.49	-0.7	21.79	151.01	2

**CHANNEL BANDWIDTH: 20MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	22	-0.7	21.3	134.9	2
21026	2527.6	21197	2544.7	22.14	-0.7	21.44	139.32	2
21201	2545.1	21372	2562.2	21.73	-0.7	21.03	126.77	2

**CHANNEL BANDWIDTH: 20MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	20.82	-0.7	20.12	102.8	2
21026	2527.6	21197	2544.7	20.91	-0.7	20.21	104.95	2
21201	2545.1	21372	2562.2	20.67	-0.7	19.97	99.31	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	22.68	-0.7	21.98	157.76	2
21001	2525.1	21199	2544.9	22.63	-0.7	21.93	155.96	2
21206	2540.2	21350	2560.0	22.5	-0.7	21.8	151.36	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	22.07	-0.7	21.37	137.09	2
21001	2525.1	21199	2544.9	22	-0.7	21.3	134.9	2
21206	2540.2	21350	2560.0	21.95	-0.7	21.25	133.35	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	21.21	-0.7	20.51	112.46	2
21001	2525.1	21199	2544.9	21.2	-0.7	20.5	112.2	2
21206	2540.2	21350	2560.0	21.13	-0.7	20.43	110.41	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**LTE BAND 38**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	24.1	-0.7	23.4	218.78	2
38000	2595.0	23.98	-0.7	23.28	212.81	2
38225	2617.5	23.95	-0.7	23.25	211.35	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	23.16	-0.7	22.46	176.2	2
38000	2595.0	23.18	-0.7	22.48	177.01	2
38225	2617.5	23.14	-0.7	22.44	175.39	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	21.88	-0.7	21.18	131.22	2
38000	2595	21.91	-0.7	21.21	132.13	2
38225	2617.5	21.78	-0.7	21.08	128.23	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	24.1	-0.7	23.4	218.78	2
38000	2595.0	23.98	-0.7	23.28	212.81	2
38200	2615.0	23.96	-0.7	23.26	211.84	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	23.21	-0.7	22.51	178.24	2
38000	2595.0	23.14	-0.7	22.44	175.39	2
38200	2615.0	23.17	-0.7	22.47	176.6	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575	21.93	-0.7	21.23	132.74	2
38000	2595	21.87	-0.7	21.17	130.92	2
38200	2615	21.81	-0.7	21.11	129.12	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	24.08	-0.7	23.38	217.77	2
38000	2595.0	24.03	-0.7	23.33	215.28	2
38175	2612.5	23.91	-0.7	23.21	209.41	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	23.2	-0.7	22.5	177.83	2
38000	2595.0	23.15	-0.7	22.45	175.79	2
38175	2612.5	23.17	-0.7	22.47	176.6	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	21.94	-0.7	21.24	133.05	2
38000	2595	21.86	-0.7	21.16	130.62	2
38175	2612.5	21.78	-0.7	21.08	128.23	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	24.12	-0.7	23.42	219.79	2
38000	2595.0	24.06	-0.7	23.36	216.77	2
38150	2610.0	23.97	-0.7	23.27	212.32	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	23.24	-0.7	22.54	179.47	2
38000	2595.0	23.2	-0.7	22.5	177.83	2
38150	2610.0	23.19	-0.7	22.49	177.42	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580	21.96	-0.7	21.26	133.66	2
38000	2595	21.93	-0.7	21.23	132.74	2
38150	2610	21.83	-0.7	21.13	129.72	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**LTE BAND CA\_38C**

**CHANNEL BANDWIDTH: 15MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	38048	2599.8	23.66	-0.7	22.96	197.7	2
37901	2585.1	38048	2604.9	23.76	-0.7	23.06	202.3	2
37952	2590.2	38150	2610	23.85	-0.7	23.15	206.54	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	38048	2599.8	23.04	-0.7	22.34	171.4	2
37901	2585.1	38099	2604.9	22.86	-0.7	22.16	164.44	2
37952	2590.2	38150	2610	22.93	-0.7	22.23	167.11	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	38048	2599.8	22.1	-0.7	21.4	138.04	2
37901	2585.1	38099	2604.9	21.87	-0.7	21.17	130.92	2
37952	2590.2	38150	2610	21.88	-0.7	21.18	131.22	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 20MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	23.91	-0.7	23.21	209.41	2
37925	2587.5	38075	2602.5	23.92	-0.7	23.22	209.89	2
38025	2597.5	38175	2612.5	24.05	-0.7	23.35	216.27	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	23.12	-0.7	22.42	174.58	2
37925	2587.5	38075	2602.5	22.82	-0.7	22.12	162.93	2
38025	2597.5	38175	2612.5	22.83	-0.7	22.13	163.31	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	37975	2592.5	22.01	-0.7	21.31	135.21	2
37925	2587.5	38075	2602.5	21.96	-0.7	21.26	133.66	2
38025	2597.5	38175	2612.5	21.78	-0.7	21.08	128.23	2



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VERITAS

Test Report No.: W7L-P21100027RF16

**LTE BAND 41**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	24.14	-0.7	23.44	220.8	2
40620	2593.0	23.99	-0.7	23.29	213.3	2
41565	2687.5	23.88	-0.7	23.18	207.97	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	23.19	-0.7	22.49	177.42	2
40620	2593.0	23.15	-0.7	22.45	175.79	2
41565	2687.5	23.06	-0.7	22.36	172.19	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	22.02	-0.7	21.32	135.52	2
40620	2593.0	21.97	-0.7	21.27	133.97	2
41565	2687.5	21.79	-0.7	21.09	128.53	2



**BUREAU  
VERITAS**

Test Report No.: W7L-P21100027RF16

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	24.14	-0.7	23.44	220.8	2
40620	2593.0	24	-0.7	23.3	213.8	2
41540	2685.0	23.93	-0.7	23.23	210.38	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	23.24	-0.7	22.54	179.47	2
40620	2593.0	23.18	-0.7	22.48	177.01	2
41540	2685.0	23.05	-0.7	22.35	171.79	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	22.07	-0.7	21.37	137.09	2
40620	2593.0	22.01	-0.7	21.31	135.21	2
41540	2685.0	21.76	-0.7	21.06	127.64	2



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**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	24.12	-0.7	23.42	219.79	2
40620	2593.0	23.95	-0.7	23.25	211.35	2
41515	2682.5	23.93	-0.7	23.23	210.38	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	23.23	-0.7	22.53	179.06	2
40620	2593.0	23.18	-0.7	22.48	177.01	2
41515	2682.5	23	-0.7	22.3	169.82	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	22.08	-0.7	21.38	137.4	2
40620	2593.0	21.98	-0.7	21.28	134.28	2
41515	2682.5	21.76	-0.7	21.06	127.64	2



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	24.16	-0.7	23.46	221.82	2
40620	2593.0	24.01	-0.7	23.31	214.29	2
41490	2680.0	23.95	-0.7	23.25	211.35	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	23.27	-0.7	22.57	180.72	2
40620	2593.0	23.2	-0.7	22.5	177.83	2
41490	2680.0	23.07	-0.7	22.37	172.58	2

**CHANNEL BANDWIDTH: 20 MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	22.1	-0.7	21.4	138.04	2
40620	2593.0	22.03	-0.7	21.33	135.83	2
41490	2680.0	21.84	-0.7	21.14	130.02	2

## 3.2 FREQUENCY STABILITY MEASUREMENT

### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

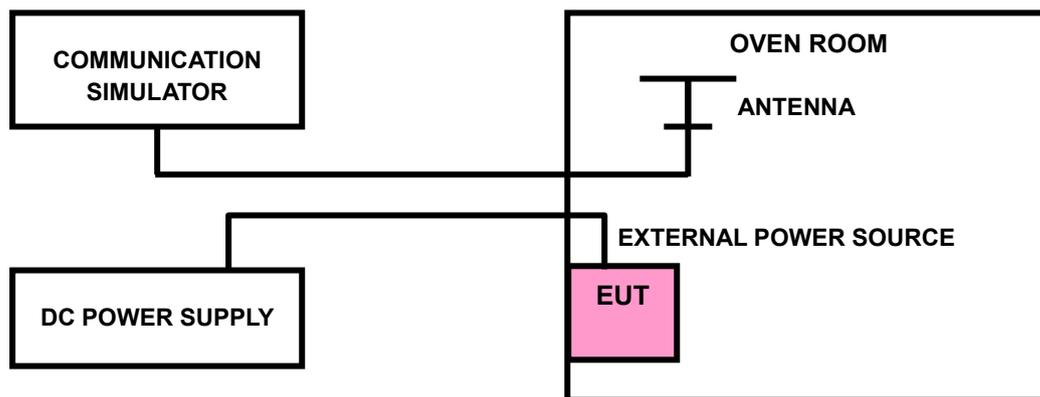
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

### 3.2.3 TEST SETUP



### 3.2.4 TEST RESULTS

Please Refer to Appendix A Of this test report.

#### LTE BAND CA\_7C

LTE BAND CA_7C channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
10+20	PCC	channel	20805	21006	21206
		Frequncy	2505.5	2525.6	2545.6
	SCC	channel	20949	21150	21350
		Frequncy	2519.9	2540	2560
15+10	PCC	channel	20825	21051	21277
		Frequncy	2507.5	2530.1	2552.7
	SCC	channel	20945	21171	21397
		Frequncy	2519.5	2542.1	2564.7
15+15	PCC	channel	20825	21025	21225
		Frequncy	2507.5	2527.5	2547.5
	SCC	channel	20975	21175	21375
		Frequncy	2522.5	2542.5	2562.5
15+20	PCC	channel	20828	21003	21179
		Frequncy	2507.8	2525.3	2542.9
	SCC	channel	20999	21174	21350
		Frequncy	2524.9	2542.4	2560
20+10	PCC	channel	20850	21051	21251
		Frequncy	2510	2530.1	2550.1
	SCC	channel	20994	21195	21395
		Frequncy	2524.4	2544.5	2564.5
20+15	PCC	channel	20850	21026	21201
		Frequncy	2510	2527.6	2545.1
	SCC	channel	21021	21197	21372
		Frequncy	2527.1	2544.7	2562.2
20+20	PCC	channel	20850	21001	21152
		Frequncy	2510	2525.1	2540.2



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	SCC	channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560

**LTE BAND CA\_38C**

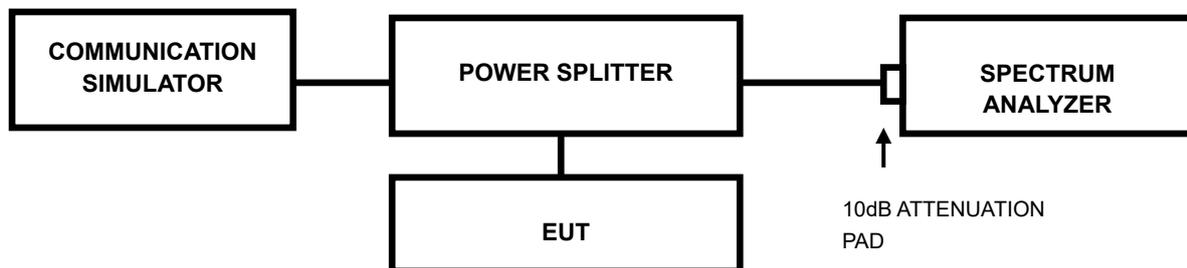
LTE BAND CA_38C channel and Frequency List					
BW(MHz)	Channel/Frequency(MHz)		Lowest	Middle	Highest
15+15	PCC	channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	channel	38048	38048	38150
		Frequency	2599.8	2604.9	2610
20+20	PCC	channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.3.2 TEST SETUP



#### 3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



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### 3.3.4 TEST RESULTS

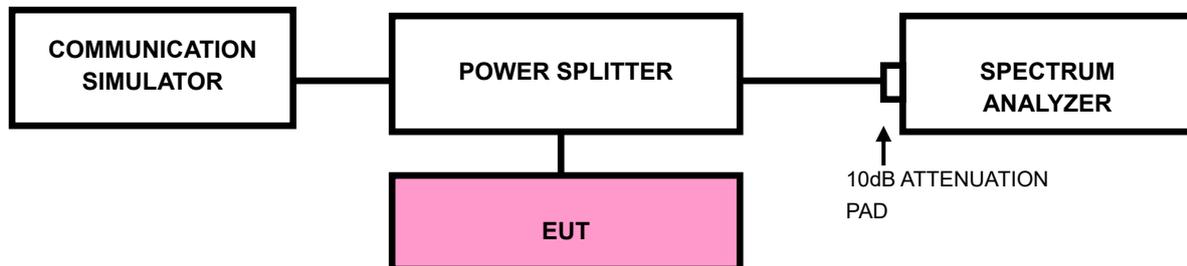
Please Refer to Appendix A Of this test report.

### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

#### 3.4.2 TEST SETUP





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### 3.4.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 35MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (Channel bandwidth 5MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 50MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz (Channel bandwidth 10MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 60MHz. RBW of the spectrum is 300kHz and VBW of the spectrum is 1MHz (Channel bandwidth 15MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 80MHz. RBW of the spectrum is 500kHz and VBW of the spectrum is 2MHz (Channel bandwidth 20MHz).
- g. Record the max trace plot into the test report.



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### 3.4.4 TEST RESULTS

Please Refer to Appendix A Of this test report.

### 3.5 CONDUCTED SPURIOUS EMISSIONS

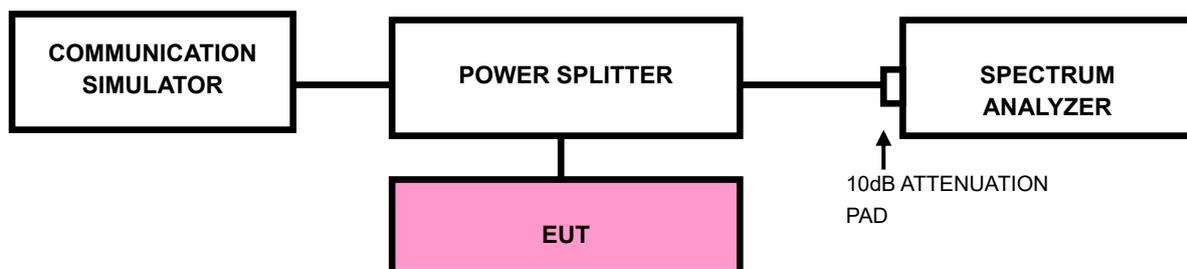
#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -25dBm.

#### 3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30MHz~27GHz for LTE Band 7 & 30MHz~26.2GHz for LTE Band 38, 30MHz~27GHz for LTE Band 41. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

#### 3.5.3 TEST SETUP





**BUREAU**  
**VERITAS**

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### 3.5.4 TEST RESULTS

Please Refer to Appendix A Of this test report.



### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -25dBm.

#### 3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$ .

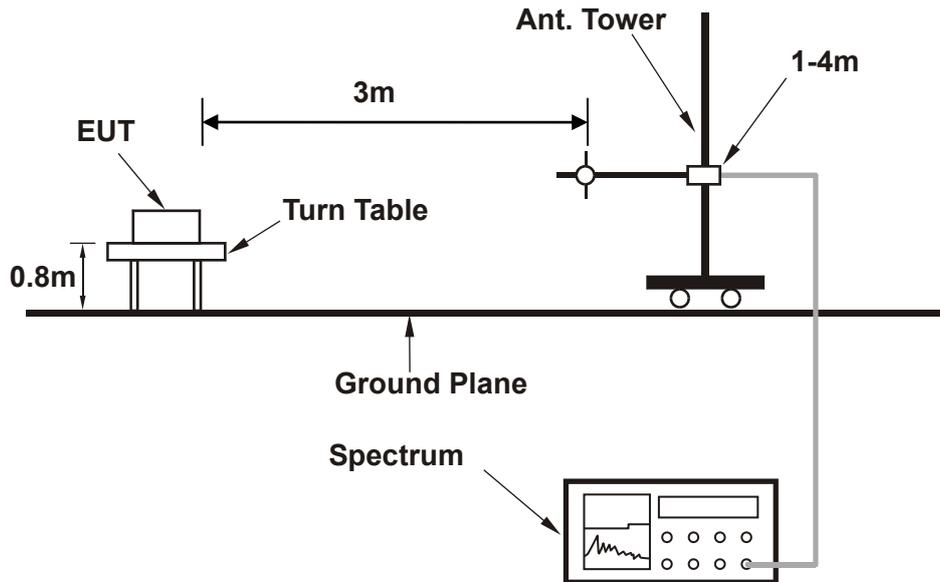
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

#### 3.6.3 DEVIATION FROM TEST STANDARD

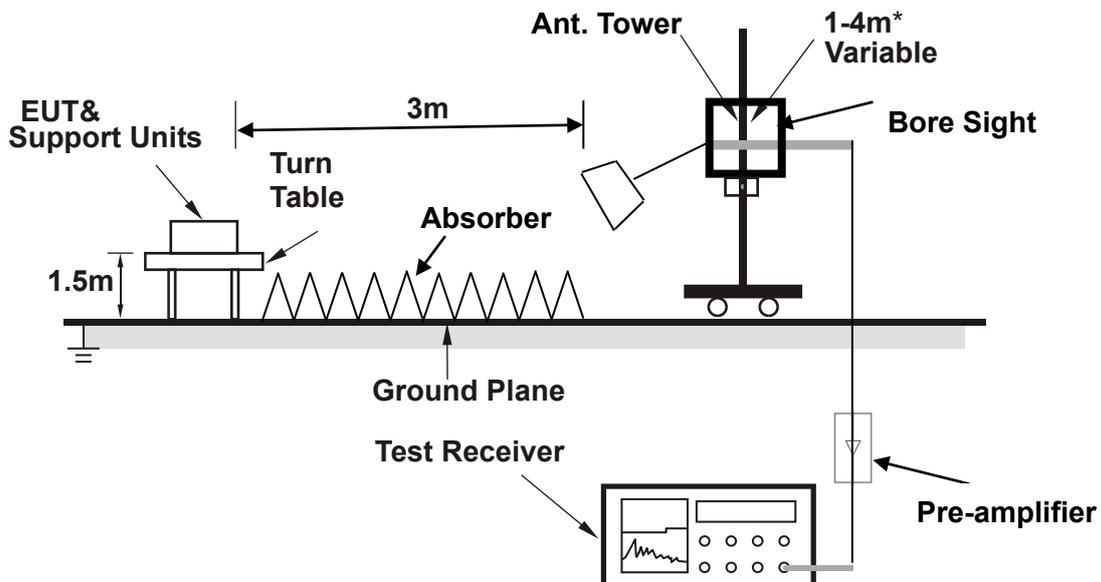
No deviation

### 3.6.4 TEST SETUP

#### < Frequency Range 30MHz~1GHz >



#### <Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

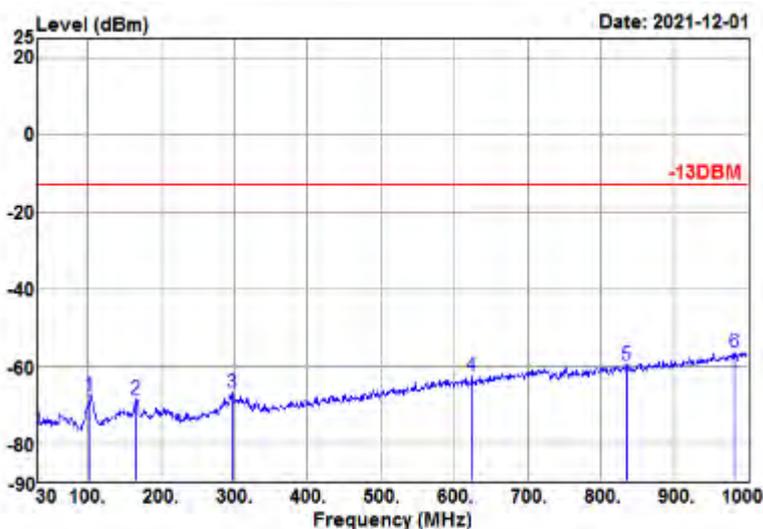
BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

LTE Band 7

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20800	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

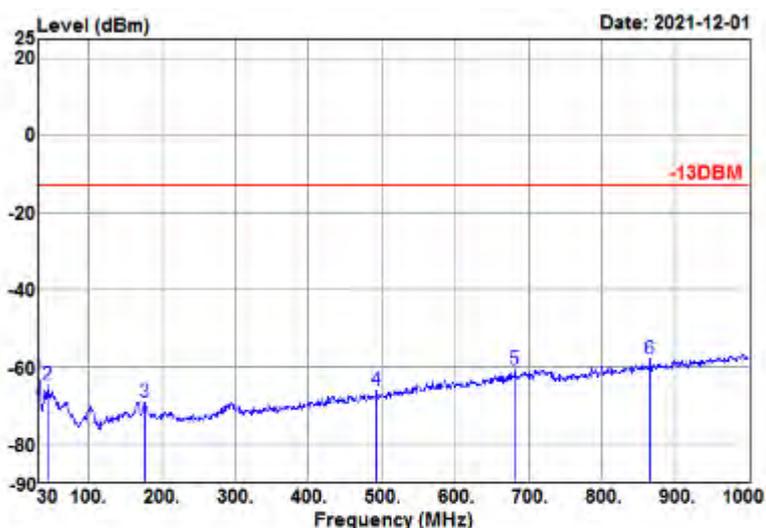


Freq MHz	Reading level dBm	Aux factor dB	level dBm	Limit level dBm	Over limit dB	Remark
103.720	-60.91	-6.65	-67.56	-13.00	-54.56	Peak
165.800	-64.93	-3.61	-68.54	-13.00	-55.54	Peak
297.720	-64.44	-2.57	-67.01	-13.00	-54.01	Peak
623.640	-67.55	4.96	-62.59	-13.00	-49.59	Peak
834.130	-68.36	8.64	-59.72	-13.00	-46.72	Peak
981.570	-68.28	11.77	-56.51	-13.00	-43.51	Peak



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<b>MODE</b>	TX channel 20800	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			



Freq MHz	Reading level dBm	Aux factor dB	level dBm	Limit level dBm	Over limit dB	Remark
31.940	-57.98	-4.97	-62.95	-13.00	-49.95	Peak
44.550	-60.39	-4.55	-64.94	-13.00	-51.94	Peak
176.470	-64.58	-4.60	-69.18	-13.00	-56.18	Peak
492.690	-67.96	1.69	-66.27	-13.00	-53.27	Peak
680.870	-66.62	5.75	-60.87	-13.00	-47.87	Peak
866.140	-67.29	9.06	-58.23	-13.00	-45.23	Peak



BUREAU  
VERITAS

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**ABOVE 1GHz**

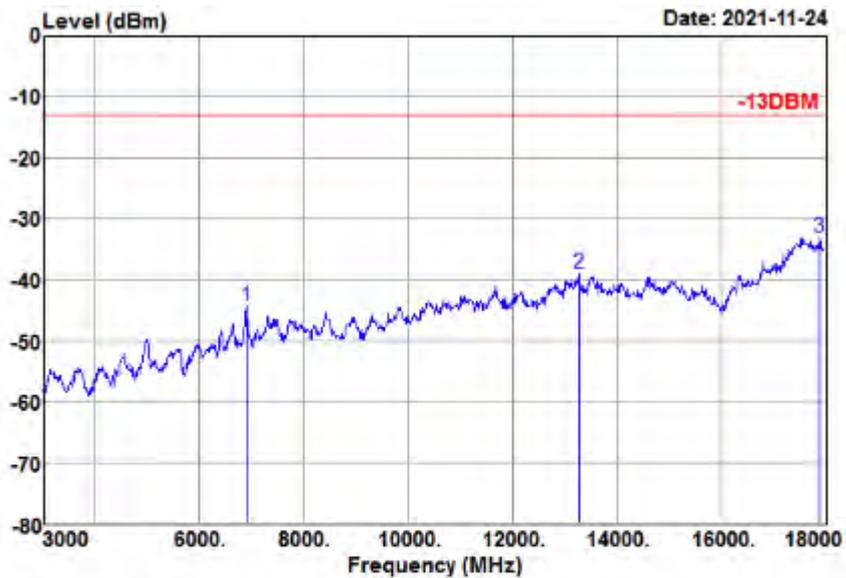
**Note:**

1. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.
2. For higher frequency, the emission is too low to be detected.

**WCDMA Band IV(Ant0)**

**CH 1312**

<b>MODE</b>	TX channel 1312	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

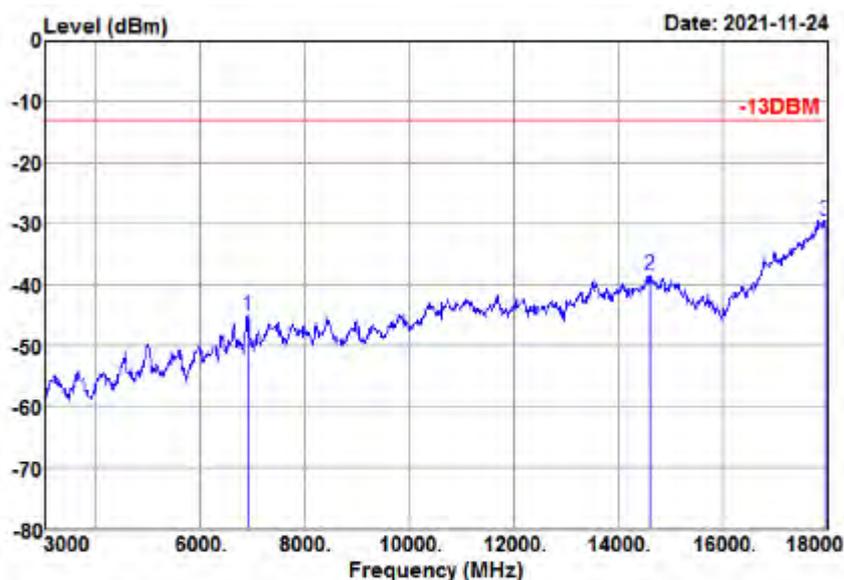


Freq MHz	Reading level dBm	Aux factor dB	level dBm	Limit level dBm	Over limit dB	Remark
6900.000	-62.54	18.08	-44.46	-13.00	-31.46	Peak
13275.000	-67.60	28.56	-39.04	-13.00	-26.04	Peak
17895.000	-68.29	35.25	-33.04	-13.00	-20.04	Peak



Test Report No.: W7L-P21100027RF16

MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			



Freq MHz	Reading level dBm	Aux factor dB	level dBm	Limit level dBm	Over limit dB	Remark
6900.000	-63.45	18.41	-45.04	-13.00	-32.04	Peak
14625.000	-66.87	28.32	-38.55	-13.00	-25.55	Peak
17970.000	-69.56	40.16	-29.40	-13.00	-16.40	Peak