



REPORT No.: SZ21050089S01

Annex E1 Conducted Full Power

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		128	189	251		128	189	251		
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		32.52	32.59	32.65	33.00	23.52	23.59	23.65	24.00	0.22
GPRS 1 Tx slot		32.44	32.57	32.66	33.00	23.44	23.57	23.66	24.00	
GPRS 2 Tx slots		30.52	30.57	30.54	31.00	24.52	24.57	24.54	25.00	0.05
GPRS 3 Tx slots		28.68	28.77	28.72	29.00	24.42	24.51	24.46	24.74	0.09
GPRS 4 Tx slots		26.60	26.66	26.59	27.00	23.60	23.66	23.59	24.00	0.07
EDGE 1 Tx slot		25.19	25.17	24.91	25.50	16.19	16.17	15.91	16.50	0.28
EDGE 2 Tx slots		24.66	24.85	24.51	25.50	18.66	18.85	18.51	19.50	0.34
EDGE 3 Tx slots		23.38	23.63	23.71	24.50	19.12	19.37	19.45	20.24	0.33
EDGE 4 Tx slots		20.54	20.82	20.73	21.50	17.54	17.82	17.73	18.50	0.28

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		28.94	28.88	28.77	30.50	19.94	19.88	19.77	21.50	0.27
GPRS 1 Tx slot		28.89	28.71	28.67	29.50	19.89	19.71	19.67	20.50	
GPRS 2 Tx slots		26.86	26.54	26.39	27.50	20.86	20.54	20.39	21.50	0.47
GPRS 3 Tx slots		25.43	25.45	25.33	26.00	21.17	21.19	21.07	21.74	0.12
GPRS 4 Tx slots		23.42	23.09	23.12	24.00	20.42	20.09	20.12	21.00	0.33
EDGE 1 Tx slot		25.76	25.72	25.55	26.50	16.76	16.72	16.55	17.50	0.21
EDGE 2 Tx slots		25.30	25.11	25.12	26.00	19.30	19.11	19.12	20.00	0.19
EDGE 3 Tx slots		23.58	23.48	23.10	24.00	19.32	19.22	18.84	19.74	0.48
EDGE 4 Tx slots		20.45	20.65	20.40	21.00	17.45	17.65	17.40	18.00	0.25

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	21.20	21.32	21.09	22.00	21.67	21.78	21.71	22.50	22.20	22.51	22.23	23.00
3GPP Rel 6	HSDPA Subtest-1	20.34	20.37	20.49	21.00	21.16	21.21	21.22	22.00	21.20	21.67	21.49	22.50
3GPP Rel 6	HSDPA Subtest-2	20.44	20.08	20.18	21.00	21.07	21.17	21.12	22.00	21.27	21.45	21.54	22.50
3GPP Rel 6	HSDPA Subtest-3	20.35	20.29	20.37	21.00	21.05	21.17	21.13	22.00	21.31	21.15	21.25	22.50
3GPP Rel 6	HSDPA Subtest-4	20.12	19.95	20.04	21.00	21.07	21.21	21.16	22.00	21.22	21.06	21.16	22.50
3GPP Rel 6	HSUPA Subtest-1	20.34	20.18	20.38	21.00	21.20	21.53	21.20	22.00	21.49	22.04	21.96	22.50
3GPP Rel 6	HSUPA Subtest-2	20.33	20.14	20.31	21.00	21.21	21.48	21.20	22.00	21.45	22.03	21.97	22.50
3GPP Rel 6	HSUPA Subtest-3	20.34	20.16	20.33	21.00	21.16	21.55	21.17	22.00	21.65	21.78	21.72	22.50
3GPP Rel 6	HSUPA Subtest-4	20.30	20.11	20.26	21.00	21.19	21.46	21.20	22.00	21.62	21.80	21.73	22.50
3GPP Rel 6	HSUPA Subtest-5	20.35	20.17	20.33	21.00	21.16	21.53	21.17	22.00	21.67	21.81	21.74	22.50
3GPP Rel 7	ISPA+ (16QAM) Subtest-	20.40	20.22	20.30	21.00	21.06	21.57	21.40	22.00	21.72	21.79	21.71	22.50

LTE Band 2							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	23
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.79	22.82	22.59	23
20	QPSK	1	49	22.51	22.35	22.31	
20	QPSK	1	99	22.59	22.34	22.32	
20	QPSK	50	0	21.15	21.26	20.93	22
20	QPSK	50	24	21.18	21.11	21.05	
20	QPSK	50	50	21.13	21.09	20.86	
20	QPSK	100	0	21.12	21.24	20.98	23
20	16QAM	1	0	21.92	21.76	21.86	
20	16QAM	1	49	21.69	21.49	21.48	
20	16QAM	1	99	21.65	21.51	21.68	21
20	16QAM	50	0	20.19	20.22	20.11	
20	16QAM	50	24	20.21	20.31	20.02	
20	16QAM	50	50	20.26	20.25	19.97	22
20	16QAM	100	0	20.25	20.36	20.16	
20	64QAM	1	0	21.44	21.58	21.42	
20	64QAM	1	49	21.32	21.11	21.09	21
20	64QAM	1	99	21.33	21.19	21.12	
20	64QAM	50	0	20.32	20.60	20.16	
20	64QAM	50	24	20.48	20.34	20.12	21
20	64QAM	50	50	20.27	20.18	20.47	
20	64QAM	100	0	20.28	20.22	20.14	
Channel				18675	18900	19125	23
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.76	22.79	22.56	23
15	QPSK	1	37	22.48	22.32	22.28	
15	QPSK	1	74	22.56	22.31	22.29	
15	QPSK	36	0	21.11	21.26	20.98	22
15	QPSK	36	20	21.18	21.10	21.01	
15	QPSK	36	39	21.17	21.22	20.81	
15	QPSK	75	0	21.23	21.24	20.88	23
15	16QAM	1	0	21.88	21.84	21.44	
15	16QAM	1	37	21.63	21.55	21.47	
15	16QAM	1	74	21.67	21.83	21.67	21
15	16QAM	36	0	20.03	20.26	20.08	
15	16QAM	36	20	20.26	19.95	20.07	
15	16QAM	36	39	20.19	20.02	20.12	22
15	16QAM	75	0	20.38	20.14	20.14	
15	64QAM	1	0	21.29	21.16	20.83	
15	64QAM	1	37	21.25	21.17	21.07	21
15	64QAM	1	74	21.26	21.17	20.85	
15	64QAM	36	0	20.26	20.27	20.22	
15	64QAM	36	20	20.29	20.15	20.04	21
15	64QAM	36	39	20.23	20.14	19.90	
15	64QAM	75	0	20.39	20.06	20.19	
Channel				18650	18900	19150	23
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.73	22.76	22.53	23
10	QPSK	1	25	22.45	22.29	22.25	
10	QPSK	1	49	22.53	22.28	22.26	
10	QPSK	25	0	21.05	21.26	20.84	22
10	QPSK	25	12	21.28	21.01	20.85	
10	QPSK	25	25	21.25	20.99	20.86	
10	QPSK	50	0	20.90	21.22	20.91	22
10	16QAM	1	0	21.61	21.65	21.27	
10	16QAM	1	25	21.54	21.53	21.49	
10	16QAM	1	49	21.57	21.25	21.24	21
10	16QAM	25	0	20.19	20.42	20.16	
10	16QAM	25	12	20.43	20.29	20.17	
10	16QAM	25	25	20.49	20.24	20.23	22
10	16QAM	50	0	20.15	20.25	19.93	
10	64QAM	1	0	21.27	21.28	21.17	
10	64QAM	1	25	21.45	21.40	21.50	21
10	64QAM	1	49	21.39	21.52	21.18	
10	64QAM	25	0	20.40	20.49	20.10	
10	64QAM	25	12	20.39	20.30	20.01	21
10	64QAM	25	25	20.49	20.30	20.20	
10	64QAM	50	0	20.22	20.23	20.06	
Channel				18625	18900	19175	23
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.70	22.73	22.50	23
5	QPSK	1	12	22.42	22.26	22.22	
5	QPSK	1	24	22.50	22.25	22.23	
5	QPSK	12	0	21.23	21.24	20.87	22
5	QPSK	12	7	21.16	21.11	20.90	
5	QPSK	12	13	21.20	20.98	20.79	
5	QPSK	25	0	21.11	21.22	20.78	23
5	16QAM	1	0	21.85	21.89	21.46	
5	16QAM	1	12	21.84	21.66	21.39	
5	16QAM	1	24	21.66	21.39	21.40	21
5	16QAM	12	0	20.27	20.29	19.97	
5	16QAM	12	7	20.29	20.19	20.03	
5	16QAM	12	13	20.32	20.26	19.88	22
5	16QAM	25	0	20.49	20.54	20.08	
5	64QAM	1	0	21.47	21.49	21.22	
5	64QAM	1	12	21.28	21.01	21.04	21
5	64QAM	1	24	21.24	21.05	21.02	
5	64QAM	12	0	20.22	20.39	20.10	
5	64QAM	12	7	20.17	20.28	20.02	22
5	64QAM	12	13	20.32	20.40	20.07	
5	64QAM	25	0	20.20	20.31	20.10	
Channel				18615	18900	19185	23
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.67	22.70	22.47	23
3	QPSK	1	8	22.39	22.23	22.19	
3	QPSK	1	14	22.47	22.22	22.20	
3	QPSK	8	0	21.16	21.18	20.86	22
3	QPSK	8	4	21.10	21.08	20.82	
3	QPSK	8	7	21.26	21.06	20.83	

LTE Band 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.65	22.87	22.72	24
20	QPSK	1	49	22.45	22.58	22.53	
20	QPSK	1	99	22.44	22.60	22.51	
20	QPSK	50	0	21.55	21.64	21.58	22
20	QPSK	50	24	21.43	21.41	21.55	
20	QPSK	50	50	21.27	21.45	21.64	
20	QPSK	100	0	21.45	21.74	21.51	23
20	16QAM	1	0	22.24	22.33	22.30	
20	16QAM	1	49	22.09	22.23	22.48	
20	16QAM	1	99	22.01	21.98	22.05	22
20	16QAM	50	0	20.72	20.84	20.83	
20	16QAM	50	24	20.56	20.62	20.76	
20	16QAM	50	50	20.59	20.59	20.54	23
20	16QAM	100	0	20.64	20.64	20.69	
20	64QAM	1	0	22.06	22.24	22.21	
20	64QAM	1	49	21.92	22.11	22.02	22
20	64QAM	1	99	22.03	22.09	22.17	
20	64QAM	50	0	20.72	20.74	20.80	
20	64QAM	50	24	20.60	20.72	20.59	23
20	64QAM	50	50	20.66	20.73	20.56	
20	64QAM	100	0	20.65	20.71	20.66	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.41	22.77	22.44	24
15	QPSK	1	37	22.38	22.39	22.51	
15	QPSK	1	74	22.27	22.34	22.60	
15	QPSK	36	0	21.56	21.60	21.57	22
15	QPSK	36	20	21.42	21.49	21.63	
15	QPSK	36	39	21.45	21.56	21.53	
15	QPSK	75	0	21.48	21.67	21.66	23
15	16QAM	1	0	22.00	22.35	21.98	
15	16QAM	1	37	21.91	21.96	22.20	
15	16QAM	1	74	22.19	21.89	21.93	21
15	16QAM	36	0	20.56	20.58	20.56	
15	16QAM	36	20	20.57	20.60	20.62	
15	16QAM	36	39	20.52	20.66	20.62	23
15	16QAM	75	0	20.63	20.78	20.73	
15	64QAM	1	0	21.64	21.88	21.74	
15	64QAM	1	37	21.38	21.52	21.39	22
15	64QAM	1	74	21.42	21.42	21.77	
15	64QAM	36	0	20.65	20.83	20.75	
15	64QAM	36	20	20.60	20.71	20.70	23
15	64QAM	36	39	20.54	20.52	20.74	
15	64QAM	75	0	20.57	20.77	20.75	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.69	22.77	22.76	24
10	QPSK	1	25	22.57	22.54	22.53	
10	QPSK	1	49	22.65	22.42	22.59	
10	QPSK	25	0	21.56	21.58	21.54	22
10	QPSK	25	12	21.59	21.47	21.51	
10	QPSK	25	25	21.42	21.47	21.56	
10	QPSK	50	0	21.62	21.64	21.54	23
10	16QAM	1	0	22.27	22.35	21.98	
10	16QAM	1	25	22.26	21.92	21.96	
10	16QAM	1	49	21.98	22.25	21.97	22
10	16QAM	25	0	20.68	20.96	20.93	
10	16QAM	25	12	20.79	20.59	20.91	
10	16QAM	25	25	20.77	20.49	20.95	23
10	16QAM	50	0	20.64	20.63	20.64	
10	64QAM	1	0	21.92	21.94	21.56	
10	64QAM	1	25	21.86	21.57	21.85	22
10	64QAM	1	49	21.87	21.45	21.91	
10	64QAM	25	0	20.59	20.88	20.76	
10	64QAM	25	12	20.62	20.71	20.95	23
10	64QAM	25	25	20.51	20.62	20.84	
10	64QAM	50	0	20.66	20.64	20.81	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.50	22.62	22.60	23
5	QPSK	1	12	22.44	22.48	22.67	
5	QPSK	1	24	22.39	22.63	22.64	
5	QPSK	12	0	21.51	21.68	21.66	22
5	QPSK	12	7	21.47	21.60	21.71	
5	QPSK	12	13	21.49	21.54	21.66	
5	QPSK	25	0	21.41	21.59	21.56	23
5	16QAM	1	0	22.10	22.33	21.94	
5	16QAM	1	12	22.01	21.91	22.19	
5	16QAM	1	24	22.34	21.87	21.86	22
5	16QAM	12	0	20.72	20.77	20.73	
5	16QAM	12	7	20.66	20.66	20.75	
5	16QAM	12	13	20.69	20.68	20.77	23
5	16QAM	25	0	20.65	20.82	20.98	
5	64QAM	1	0	22.12	22.23	22.03	
5	64QAM	1	12	21.90	21.74	21.89	22
5	64QAM	1	24	21.87	21.86	22.09	
5	64QAM	12	0	20.70	20.78	20.77	
5	64QAM	12	7	20.84	20.58	20.78	24
5	64QAM	12	13	20.64	20.73	20.82	
5	64QAM	25	0	20.79	20.55	20.92	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.43	22.72	22.52	22
3	QPSK	1	8	22.43	22.60	22.47	
3	QPSK	1	14	22.49	22.54	22.53	
3	QPSK	8	0	21.58	21.59	21.58	24
3	QPSK	8	4	21.51	21.52	21.55	
3	QPSK	8	7	21.48	21.54	21.65	

3	QPSK	15	0	21.23	21.24	20.81	23
3	16QAM	1	0	21.64	21.78	21.32	
3	16QAM	1	8	21.40	21.31	21.37	
3	16QAM	1	14	21.64	21.29	21.29	
3	16QAM	8	0	20.40	20.17	20.11	21
3	16QAM	8	4	20.46	20.25	20.06	
3	16QAM	8	7	20.36	20.20	19.99	
3	16QAM	15	0	20.29	20.30	20.14	
3	64QAM	1	0	21.31	21.35	21.10	22
3	64QAM	1	8	21.23	21.31	20.98	
3	64QAM	1	14	21.24	21.26	21.02	
3	64QAM	8	0	20.34	20.44	20.11	
3	64QAM	8	4	20.26	20.30	20.05	21
3	64QAM	8	7	20.17	20.04	20.01	
3	64QAM	15	0	20.33	20.34	19.97	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.64	22.67	22.44	23
1.4	QPSK	1	3	22.36	22.20	22.16	
1.4	QPSK	1	5	22.44	22.19	22.17	
1.4	QPSK	3	0	22.07	22.17	21.89	
1.4	QPSK	3	1	22.21	22.20	21.87	
1.4	QPSK	3	3	22.20	22.08	21.90	
1.4	QPSK	6	0	21.16	21.19	20.80	22
1.4	16QAM	1	0	21.36	21.47	21.33	22
1.4	16QAM	1	3	21.26	21.52	21.63	
1.4	16QAM	1	5	21.43	21.49	21.27	
1.4	16QAM	3	0	21.54	21.23	21.10	
1.4	16QAM	3	1	21.52	21.36	21.22	
1.4	16QAM	3	3	21.58	21.25	21.19	
1.4	16QAM	6	0	20.22	19.88	19.75	21
1.4	64QAM	1	0	21.17	21.44	20.96	22
1.4	64QAM	1	3	21.18	21.32	21.01	
1.4	64QAM	1	5	21.30	21.35	21.10	
1.4	64QAM	3	0	21.33	21.34	21.04	
1.4	64QAM	3	1	21.30	21.29	21.04	
1.4	64QAM	3	3	21.30	21.07	20.92	
1.4	64QAM	6	0	20.37	20.19	19.95	21

3	QPSK	15	0	21.59	21.69	21.65	23
3	16QAM	1	0	22.08	22.37	22.09	
3	16QAM	1	8	22.11	22.33	22.03	
3	16QAM	1	14	21.98	21.95	22.03	
3	16QAM	8	0	20.71	20.79	20.75	22
3	16QAM	8	4	20.64	20.85	20.79	
3	16QAM	8	7	20.55	20.68	20.88	
3	16QAM	15	0	20.70	20.79	20.69	
3	16QAM	1	0	22.01	21.64	21.99	23
3	16QAM	1	8	22.00	21.58	22.05	
3	16QAM	1	14	21.89	21.62	21.97	
3	16QAM	8	0	20.59	20.65	20.60	
3	16QAM	8	4	20.50	20.49	20.55	22
3	16QAM	8	7	20.69	20.52	20.55	
3	16QAM	15	0	20.63	20.62	20.82	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.43	22.69	22.53	24
1.4	QPSK	1	3	22.5	22.49	22.52	
1.4	QPSK	1	5	22.46	22.39	22.59	
1.4	QPSK	3	0	22.57	22.58	22.47	
1.4	QPSK	3	1	22.62	22.58	22.53	
1.4	QPSK	3	3	22.62	22.54	22.58	
1.4	QPSK	6	0	21.55	21.65	21.54	22
1.4	16QAM	1	0	22.11	22.22	22.2	23
1.4	16QAM	1	3	22.24	22.13	22.02	
1.4	16QAM	1	5	22.01	22.15	22.46	
1.4	16QAM	3	0	21.82	22.02	22.01	
1.4	16QAM	3	1	21.63	21.75	21.93	
1.4	16QAM	3	3	21.79	21.71	21.82	
1.4	16QAM	6	0	20.54	20.56	20.35	21
1.4	16QAM	1	0	21.76	22.02	21.98	23
1.4	16QAM	1	3	21.7	21.63	22.1	
1.4	16QAM	1	5	22.01	21.66	22.02	
1.4	16QAM	3	0	21.54	21.93	21.61	
1.4	16QAM	3	1	21.62	21.63	21.65	
1.4	16QAM	3	3	21.57	21.61	21.59	
1.4	16QAM	6	0	20.64	20.77	20.66	22

LTE Band 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.93	23.41	23.16	24
10	QPSK	1	25	23.15	23.17	23.13	
10	QPSK	1	49	23.14	23.18	23.11	
10	QPSK	25	0	22.25	22.37	22.30	23
10	QPSK	25	12	22.21	22.35	22.21	
10	QPSK	25	25	22.16	22.30	22.19	
10	QPSK	50	0	22.20	22.37	22.17	23
10	16QAM	1	0	22.52	22.77	22.47	
10	16QAM	1	25	22.37	22.76	22.66	
10	16QAM	1	49	22.41	22.65	22.63	23
10	16QAM	25	0	21.35	21.65	21.54	
10	16QAM	25	12	21.15	21.59	21.40	
10	16QAM	25	25	21.21	21.60	21.47	23
10	16QAM	50	0	21.46	21.67	21.65	
10	64QAM	1	0	22.13	22.13	22.10	
10	64QAM	1	25	22.05	22.55	22.27	23
10	64QAM	1	49	22.24	22.30	22.22	
10	64QAM	25	0	21.22	21.55	21.50	
10	64QAM	25	12	21.08	21.51	21.46	22
10	64QAM	25	25	21.21	21.47	21.35	
10	64QAM	50	0	21.48	21.69	21.66	
Channel				20425	20525	20625	24
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.10	23.34	23.17	24
5	QPSK	1	12	23.15	23.27	23.23	
5	QPSK	1	24	23.14	23.18	23.20	
5	QPSK	12	0	22.09	22.21	22.14	23
5	QPSK	12	7	22.21	22.43	22.21	
5	QPSK	12	13	22.16	22.54	22.15	
5	QPSK	25	0	22.20	22.46	22.37	23
5	16QAM	1	0	22.64	22.77	22.66	
5	16QAM	1	12	22.37	22.76	22.66	
5	16QAM	1	24	22.41	22.65	22.63	22
5	16QAM	12	0	21.04	21.54	21.22	
5	16QAM	12	7	21.15	21.49	21.40	
5	16QAM	12	13	21.11	21.46	21.37	22
5	16QAM	25	0	21.36	21.81	21.65	
5	64QAM	1	0	22.28	22.29	22.27	
5	64QAM	1	12	22.05	22.55	22.27	23
5	64QAM	1	24	22.24	22.30	22.22	
5	64QAM	12	0	21.31	21.67	21.25	
5	64QAM	12	7	21.28	21.71	21.60	22
5	64QAM	12	13	21.23	21.47	21.65	
5	64QAM	25	0	21.18	21.67	21.66	
Channel				20415	20525	20635	24
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.94	23.30	23.17	24
3	QPSK	1	8	22.90	22.93	23.19	
3	QPSK	1	14	22.92	23.05	23.17	
3	QPSK	8	0	22.10	22.44	22.41	23
3	QPSK	8	4	22.02	22.40	22.29	
3	QPSK	8	7	22.11	22.39	22.19	
3	QPSK	15	0	22.12	22.50	22.25	23
3	16QAM	1	0	22.17	22.58	22.43	
3	16QAM	1	8	22.11	22.56	22.24	
3	16QAM	1	14	22.23	22.52	22.12	22
3	16QAM	8	0	21.22	21.62	21.53	
3	16QAM	8	4	21.33	21.60	21.61	
3	16QAM	8	7	21.30	21.57	21.58	23
3	16QAM	15	0	21.25	21.69	21.43	
3	64QAM	1	0	22.26	22.66	22.64	
3	64QAM	1	8	22.20	22.46	22.21	23
3	64QAM	1	14	22.32	22.43	22.26	
3	64QAM	8	0	21.41	21.62	21.52	
3	64QAM	8	4	21.26	21.40	21.56	22
3	64QAM	8	7	21.13	21.44	21.39	
3	64QAM	15	0	21.34	21.81	21.61	
Channel				20407	20525	20643	24
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.03	23.33	23.26	24
1.4	QPSK	1	3	22.91	22.94	23.11	
1.4	QPSK	1	5	22.89	22.96	23.08	
1.4	QPSK	3	0	23.11	23.15	23.30	23
1.4	QPSK	3	1	23.16	23.20	23.23	
1.4	QPSK	3	3	23.09	23.19	23.32	
1.4	QPSK	6	0	22.06	22.43	22.15	23
1.4	16QAM	1	0	22.37	22.46	22.44	
1.4	16QAM	1	3	22.31	22.76	22.28	
1.4	16QAM	1	5	22.31	22.75	22.46	23
1.4	16QAM	3	0	22.31	22.80	22.40	
1.4	16QAM	3	1	22.40	22.79	22.39	
1.4	16QAM	3	3	22.36	22.80	22.33	22
1.4	16QAM	6	0	20.94	21.30	21.32	
1.4	64QAM	1	0	22.30	22.59	22.25	
1.4	64QAM	1	3	22.21	22.57	22.15	23
1.4	64QAM	1	5	22.15	22.52	22.13	
1.4	64QAM	3	0	22.22	22.51	22.25	
1.4	64QAM	3	1	22.17	22.56	22.19	22
1.4	64QAM	3	3	22.21	22.49	22.14	
1.4	64QAM	6	0	21.11	21.60	21.59	

LTE Band 7							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	21.5
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	20.61	20.80	20.64	21.5
20	QPSK	1	49	20.42	20.61	20.60	
20	QPSK	1	99	20.59	20.61	20.74	
20	QPSK	50	0	19.59	19.78	19.67	20.5
20	QPSK	50	24	19.62	19.75	19.24	
20	QPSK	50	50	19.66	19.63	19.72	
20	QPSK	100	0	19.67	19.74	19.63	21
20	16QAM	1	0	20.35	20.51	20.34	
20	16QAM	1	49	20.36	20.32	20.27	
20	16QAM	1	99	20.28	20.09	20.40	19.5
20	16QAM	50	0	18.82	18.85	18.80	
20	16QAM	50	24	18.70	18.93	18.80	
20	16QAM	50	50	18.80	18.83	18.87	20.5
20	16QAM	100	0	18.63	18.77	18.73	
20	64QAM	1	0	19.72	20.07	19.97	
20	64QAM	1	49	19.63	19.75	19.88	19.5
20	64QAM	1	99	19.91	20.03	19.90	
20	64QAM	50	0	18.89	18.91	18.79	
20	64QAM	50	24	18.70	18.63	18.78	20.5
20	64QAM	50	50	18.78	18.77	18.84	
20	64QAM	100	0	18.68	18.78	19.02	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	21.5
15	QPSK	1	0	20.55	20.75	20.51	
15	QPSK	1	37	20.59	20.60	20.66	20.5
15	QPSK	1	74	20.60	20.56	20.38	
15	QPSK	36	0	19.65	19.79	19.67	
15	QPSK	36	20	19.70	19.71	19.70	21
15	QPSK	36	39	19.73	19.79	19.68	
15	QPSK	75	0	19.60	19.54	19.74	
15	16QAM	1	0	20.32	20.42	20.25	19.5
15	16QAM	1	37	20.49	20.15	20.33	
15	16QAM	1	74	20.16	20.27	20.41	
15	16QAM	36	0	18.75	18.77	18.73	20.5
15	16QAM	36	20	18.70	18.75	18.81	
15	16QAM	36	39	18.72	18.64	18.75	
15	16QAM	75	0	18.79	18.99	18.95	19.5
15	64QAM	1	0	19.82	19.97	19.96	
15	64QAM	1	37	19.69	19.94	19.62	
15	64QAM	1	74	19.85	19.92	19.95	20.5
15	64QAM	36	0	19.04	19.14	18.91	
15	64QAM	36	20	18.77	18.77	18.98	
15	64QAM	36	39	18.97	18.65	18.91	19.5
15	64QAM	75	0	18.79	18.77	18.93	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	21.5
10	QPSK	1	0	20.43	20.66	20.50	
10	QPSK	1	25	20.50	20.52	20.54	20.5
10	QPSK	1	49	20.45	20.48	20.61	
10	QPSK	25	0	19.73	19.88	19.80	
10	QPSK	25	12	19.57	19.57	19.78	21
10	QPSK	25	25	19.62	19.62	19.77	
10	QPSK	50	0	19.94	19.60	19.72	
10	16QAM	1	0	20.30	20.33	20.27	19.5
10	16QAM	1	25	20.51	20.16	20.26	
10	16QAM	1	49	20.21	20.52	20.23	
10	16QAM	25	0	18.71	18.94	19.10	20.5
10	16QAM	25	12	18.87	18.80	19.13	
10	16QAM	25	25	18.72	18.72	19.21	
10	16QAM	50	0	18.89	18.80	18.99	19.5
10	64QAM	1	0	19.69	19.90	19.87	
10	64QAM	1	25	19.81	19.49	19.91	
10	64QAM	1	49	19.86	19.92	19.98	20.5
10	64QAM	25	0	18.70	19.04	19.02	
10	64QAM	25	12	18.80	18.58	19.03	
10	64QAM	25	25	18.88	18.74	19.02	19.5
10	64QAM	50	0	18.83	18.73	18.93	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	21.5
5	QPSK	1	0	20.56	20.68	20.53	
5	QPSK	1	12	20.48	20.63	20.60	20.5
5	QPSK	1	24	20.60	20.48	20.24	
5	QPSK	12	0	19.67	20.01	19.95	
5	QPSK	12	7	19.72	19.65	19.99	21
5	QPSK	12	13	19.74	19.64	19.93	
5	QPSK	25	0	19.75	19.71	20.02	
5	16QAM	1	0	20.55	20.59	20.41	19.5
5	16QAM	1	12	20.26	20.32	20.43	
5	16QAM	1	24	20.14	20.33	20.32	
5	16QAM	12	0	18.62	19.10	19.04	20.5
5	16QAM	12	7	18.71	18.71	19.00	
5	16QAM	12	13	18.71	18.75	19.05	
5	16QAM	25	0	18.81	19.02	19.10	19.5
5	64QAM	1	0	19.75	20.13	20.17	
5	64QAM	1	12	19.74	19.73	20.17	
5	64QAM	1	24	19.70	19.80	19.91	20.5
5	64QAM	12	0	18.73	18.97	19.19	
5	64QAM	12	7	18.85	18.92	18.90	
5	64QAM	12	13	18.90	18.91	19.11	19.5
5	64QAM	25	0	18.75	18.99	19.19	

LTE Band 12							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.11	23.27	23.16	24
10	QPSK	1	25	22.78	23.05	23.05	
10	QPSK	1	49	22.95	23.14	22.94	
10	QPSK	25	0	21.99	22.46	22.09	23
10	QPSK	25	12	22.23	22.21	21.97	
10	QPSK	25	25	22.26	22.16	22.34	
10	QPSK	50	0	22.60	22.29	22.19	23
10	16QAM	1	0	22.59	22.62	22.59	
10	16QAM	1	25	22.57	22.59	22.91	
10	16QAM	1	49	22.84	22.83	22.93	22
10	16QAM	25	0	21.21	21.35	21.31	
10	16QAM	25	12	21.19	21.42	21.59	
10	16QAM	25	25	21.12	21.30	21.42	23
10	16QAM	50	0	21.31	21.61	21.24	
10	64QAM	1	0	22.24	22.38	22.30	
10	64QAM	1	25	22.29	22.14	22.00	22
10	64QAM	1	49	22.39	22.32	22.29	
10	64QAM	25	0	21.23	21.33	21.28	
10	64QAM	25	12	21.60	21.47	21.27	23
10	64QAM	25	25	21.33	21.28	21.25	
10	64QAM	50	0	21.36	21.66	21.34	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.94	23.19	23.01	24
5	QPSK	1	12	23.02	23.06	23.04	
5	QPSK	1	24	22.80	22.93	22.99	
5	QPSK	12	0	22.15	22.38	22.20	23
5	QPSK	12	7	22.23	22.22	22.32	
5	QPSK	12	13	22.24	22.39	22.22	
5	QPSK	25	0	22.25	22.32	22.26	23
5	16QAM	1	0	22.64	22.93	22.66	
5	16QAM	1	12	22.79	22.76	22.55	
5	16QAM	1	24	22.60	22.57	22.66	22
5	16QAM	12	0	21.28	21.41	21.40	
5	16QAM	12	7	21.27	21.38	21.47	
5	16QAM	12	13	21.21	21.22	21.46	23
5	16QAM	25	0	21.66	21.52	21.71	
5	64QAM	1	0	22.14	22.46	22.31	
5	64QAM	1	12	22.37	22.37	22.30	22
5	64QAM	1	24	22.35	22.11	22.07	
5	64QAM	12	0	21.28	21.21	21.64	
5	64QAM	12	7	21.17	21.15	21.64	23
5	64QAM	12	13	21.16	21.30	21.51	
5	64QAM	25	0	21.34	21.48	21.82	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.07	23.18	23.15	24
3	QPSK	1	8	23.13	23.16	23.14	
3	QPSK	1	14	23.12	23.15	23.16	
3	QPSK	8	0	22.26	22.37	22.33	23
3	QPSK	8	4	22.24	22.28	22.26	
3	QPSK	8	7	22.18	22.26	21.97	
3	QPSK	15	0	22.15	22.43	22.25	24
3	16QAM	1	0	22.80	22.51	22.79	
3	16QAM	1	8	22.77	22.47	22.81	
3	16QAM	1	14	22.80	22.33	22.65	22
3	16QAM	8	0	21.38	21.34	21.67	
3	16QAM	8	4	21.56	21.58	21.83	
3	16QAM	8	7	21.33	21.52	21.75	23
3	16QAM	15	0	21.28	21.43	21.74	
3	64QAM	1	0	22.42	22.32	22.61	
3	64QAM	1	8	22.50	22.62	22.47	22
3	64QAM	1	14	22.51	22.51	22.46	
3	64QAM	8	0	21.40	21.14	21.55	
3	64QAM	8	4	21.40	21.39	21.47	23
3	64QAM	8	7	21.16	21.47	21.59	
3	64QAM	15	0	21.47	21.34	21.80	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.05	23.15	23.09	24
1.4	QPSK	1	3	23.11	23.10	23.07	
1.4	QPSK	1	5	23.10	23.07	23.05	
1.4	QPSK	3	0	23.12	23.04	23.01	23
1.4	QPSK	3	1	23.07	23.09	23.08	
1.4	QPSK	3	3	23.12	23.03	23.07	
1.4	QPSK	6	0	22.26	22.48	22.30	23
1.4	16QAM	1	0	22.26	22.66	22.52	
1.4	16QAM	1	3	22.23	22.62	22.58	
1.4	16QAM	1	5	22.20	22.64	22.61	22
1.4	16QAM	3	0	22.34	22.59	22.52	
1.4	16QAM	3	1	22.37	22.47	22.46	
1.4	16QAM	3	3	22.30	22.52	22.21	23
1.4	16QAM	6	0	20.98	20.98	21.28	
1.4	64QAM	1	0	22.32	22.48	22.33	
1.4	64QAM	1	3	22.08	22.45	22.16	22
1.4	64QAM	1	5	22.47	22.39	22.23	
1.4	64QAM	3	0	22.28	22.34	22.58	
1.4	64QAM	3	1	22.41	22.37	22.46	23
1.4	64QAM	3	3	22.43	22.38	22.11	
1.4	64QAM	6	0	21.33	21.40	21.64	

LTE Band 17							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.16	23.26	23.11	24
10	QPSK	1	25	23.26	23.24	22.96	
10	QPSK	1	49	23.19	23.26	23.00	
10	QPSK	25	0	22.03	22.44	22.17	23
10	QPSK	25	12	22.20	21.98	22.30	
10	QPSK	25	25	22.24	22.11	22.33	
10	QPSK	50	0	22.17	22.28	22.27	23
10	16QAM	1	0	22.55	22.60	22.57	
10	16QAM	1	25	22.50	22.43	22.49	
10	16QAM	1	49	22.75	22.56	22.47	22
10	16QAM	25	0	21.17	21.46	21.42	
10	16QAM	25	12	21.22	21.30	21.23	
10	16QAM	25	25	21.16	21.39	21.24	23
10	16QAM	50	0	21.21	21.26	21.21	
10	64QAM	1	0	22.56	22.58	22.28	
10	64QAM	1	25	22.48	22.24	22.26	22
10	64QAM	1	49	22.41	22.22	22.23	
10	64QAM	25	0	21.34	21.44	21.30	
10	64QAM	25	12	21.28	21.53	21.28	23
10	64QAM	25	25	21.20	21.47	21.27	
10	64QAM	50	0	21.34	21.31	21.30	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.14	23.19	23.13	24
5	QPSK	1	12	23.19	23.17	23.16	
5	QPSK	1	24	23.18	23.11	23.13	
5	QPSK	12	0	22.26	22.30	22.18	23
5	QPSK	12	7	22.23	22.28	22.19	
5	QPSK	12	13	22.27	22.21	22.17	
5	QPSK	25	0	22.31	22.48	22.47	23
5	16QAM	1	0	22.15	22.22	22.44	
5	16QAM	1	12	22.30	22.54	22.51	
5	16QAM	1	24	22.30	22.34	22.43	22
5	16QAM	12	0	21.35	21.32	21.30	
5	16QAM	12	7	21.31	21.37	21.65	
5	16QAM	12	13	21.29	21.47	21.62	23
5	16QAM	25	0	21.46	21.41	21.58	
5	64QAM	1	0	22.59	22.57	22.24	
5	64QAM	1	12	22.60	22.45	22.57	22
5	64QAM	1	24	22.73	22.28	22.47	
5	64QAM	12	0	21.42	21.44	21.42	
5	64QAM	12	7	21.40	21.32	21.34	23
5	64QAM	12	13	21.38	21.52	21.62	
5	64QAM	25	0	21.29	21.55	21.76	

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.57	20.79	20.74	21.5
20	QPSK	1	49	20.31	20.68	20.62	
20	QPSK	1	99	20.53	20.52	20.40	
20	QPSK	50	0	19.59	19.75	19.73	
20	QPSK	50	24	19.49	19.68	19.71	20.5
20	QPSK	50	50	19.29	19.58	19.51	
20	QPSK	100	0	19.53	19.49	19.71	
20	16QAM	1	0	20.15	20.27	19.95	
20	16QAM	1	49	20.25	19.98	20.08	20.5
20	16QAM	1	99	20.06	19.86	20.04	
20	16QAM	50	0	18.62	18.73	18.71	
20	16QAM	50	24	18.51	18.74	18.58	
20	16QAM	50	50	18.67	18.70	18.72	19.5
20	16QAM	100	0	18.67	18.74	18.79	
20	64QAM	1	0	19.02	19.13	19.04	
20	64QAM	1	49	18.84	18.69	18.95	
20	64QAM	1	99	18.96	18.64	18.63	19.5
20	64QAM	50	0	17.63	17.98	17.64	
20	64QAM	50	24	17.61	18.00	17.50	
20	64QAM	50	50	17.76	17.85	17.54	
20	64QAM	100	0	17.86	17.82	17.64	18.5
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.45	20.67	20.62	21.5
15	QPSK	1	37	20.19	20.56	20.50	
15	QPSK	1	74	20.41	20.40	20.28	
15	QPSK	36	0	19.47	19.63	19.61	
15	QPSK	36	20	19.37	19.56	19.59	20.5
15	QPSK	36	39	19.17	19.46	19.39	
15	QPSK	75	0	19.41	19.37	19.59	
15	16QAM	1	0	20.03	20.15	19.83	
15	16QAM	1	37	20.13	19.86	19.96	20.5
15	16QAM	1	74	19.94	19.74	19.92	
15	16QAM	36	0	18.50	18.61	18.59	
15	16QAM	36	20	18.39	18.62	18.46	
15	16QAM	36	39	18.55	18.58	18.60	19.5
15	16QAM	75	0	18.55	18.62	18.67	
15	64QAM	1	0	18.90	19.01	18.92	
15	64QAM	1	37	18.72	18.57	18.83	
15	64QAM	1	74	18.84	18.52	18.51	19.5
15	64QAM	36	0	17.51	17.86	17.52	
15	64QAM	36	20	17.49	17.88	17.38	
15	64QAM	36	39	17.64	17.73	17.42	
15	64QAM	75	0	17.74	18.00	17.52	18.5
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.32	20.54	20.49	21.5
10	QPSK	1	25	20.06	20.43	20.37	
10	QPSK	1	49	20.28	20.27	20.15	
10	QPSK	25	0	19.34	19.50	19.48	
10	QPSK	25	12	19.24	19.43	19.46	20.5
10	QPSK	25	25	19.04	19.33	19.26	
10	QPSK	50	0	19.28	19.24	19.46	
10	16QAM	1	0	19.90	20.02	19.70	
10	16QAM	1	25	20.00	19.73	19.83	20.5
10	16QAM	1	49	19.81	19.61	19.79	
10	16QAM	25	0	18.37	18.48	18.46	
10	16QAM	25	12	18.26	18.49	18.33	
10	16QAM	25	25	18.42	18.45	18.47	19.5
10	16QAM	50	0	18.42	18.49	18.54	
10	64QAM	1	0	18.77	18.88	18.79	
10	64QAM	1	25	18.59	18.44	18.70	
10	64QAM	1	49	18.71	18.39	18.38	19.5
10	64QAM	25	0	17.38	17.73	17.39	
10	64QAM	25	12	17.36	17.75	17.25	
10	64QAM	25	25	17.51	17.60	17.29	
10	64QAM	50	0	17.61	17.87	17.39	18.5
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.21	20.43	20.38	21
5	QPSK	1	12	19.95	20.32	20.26	
5	QPSK	1	24	20.17	20.16	20.04	
5	QPSK	12	0	19.23	19.39	19.37	
5	QPSK	12	7	19.13	19.32	19.35	20
5	QPSK	12	13	18.93	19.22	19.15	
5	QPSK	25	0	19.17	19.13	19.35	
5	16QAM	1	0	19.79	19.91	19.59	
5	16QAM	1	12	19.89	19.62	19.72	20
5	16QAM	1	24	19.70	19.50	19.68	
5	16QAM	12	0	18.26	18.37	18.35	
5	16QAM	12	7	18.15	18.38	18.22	
5	16QAM	12	13	18.31	18.34	18.36	19
5	16QAM	25	0	18.31	18.38	18.43	
5	64QAM	1	0	18.66	18.77	18.68	
5	64QAM	1	12	18.48	18.33	18.59	
5	64QAM	1	24	18.60	18.28	18.27	19
5	64QAM	12	0	17.27	17.62	17.28	
5	64QAM	12	7	17.25	17.64	17.14	
5	64QAM	12	13	17.40	17.49	17.18	
5	64QAM	25	0	17.50	17.76	17.28	18
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.09	20.31	20.26	21
3	QPSK	1	8	19.83	20.20	20.14	
3	QPSK	1	14	20.05	20.04	19.92	
3	QPSK	8	0	19.11	19.27	19.25	
3	QPSK	8	4	19.01	19.20	19.23	20
3	QPSK	8	7	18.81	19.10	19.03	

3	QPSK	15	0	19.05	19.01	19.23	20
3	16QAM	1	0	19.67	19.79	19.47	
3	16QAM	1	8	19.77	19.50	19.60	
3	16QAM	1	14	19.58	19.38	19.56	
3	16QAM	8	0	18.14	18.25	18.23	19
3	16QAM	8	4	18.03	18.26	18.10	
3	16QAM	8	7	18.19	18.22	18.24	
3	16QAM	15	0	18.19	18.26	18.31	
3	64QAM	1	0	18.54	18.65	18.56	19
3	64QAM	1	8	18.36	18.21	18.47	
3	64QAM	1	14	18.48	18.16	18.15	
3	64QAM	8	0	17.15	17.50	17.16	
3	64QAM	8	4	17.13	17.52	17.02	18
3	64QAM	8	7	17.28	17.37	17.06	
3	64QAM	15	0	17.38	17.64	17.16	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.97	20.19	20.14	21
1.4	QPSK	1	3	19.71	20.08	20.02	
1.4	QPSK	1	5	19.93	19.92	19.80	
1.4	QPSK	3	0	18.99	19.15	19.13	
1.4	QPSK	3	1	18.89	19.08	19.11	
1.4	QPSK	3	3	18.69	18.98	18.91	
1.4	QPSK	6	0	18.93	18.89	19.11	19.5
1.4	16QAM	1	0	19.55	19.67	19.35	20
1.4	16QAM	1	3	19.65	19.38	19.48	
1.4	16QAM	1	5	19.46	19.26	19.44	
1.4	16QAM	3	0	18.02	18.13	18.11	
1.4	16QAM	3	1	17.91	18.14	17.98	
1.4	16QAM	3	3	18.07	18.10	18.12	
1.4	16QAM	6	0	18.09	18.14	18.19	19
1.4	64QAM	1	0	18.42	18.53	18.44	19
1.4	64QAM	1	3	18.24	18.09	18.35	
1.4	64QAM	1	5	18.36	18.04	18.03	
1.4	64QAM	3	0	17.03	17.38	17.04	
1.4	64QAM	3	1	17.01	17.40	16.90	
1.4	64QAM	3	3	17.16	17.25	16.94	
1.4	64QAM	6	0	17.26	17.52	17.04	18