



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	22.33	22.42	22.39	23.00
		1	38	22.29	22.40	22.37	23.00
		1	74	22.23	22.30	22.36	23.00
		36	0	21.43	21.40	21.26	22.00
		36	18	21.43	21.50	21.42	22.00
		36	39	21.45	21.49	21.44	22.00
		75	0	21.46	21.41	21.42	22.00
	16QAM	1	0	21.99	21.94	21.53	22.00
		1	38	21.43	21.87	21.64	22.00
		1	74	21.47	21.72	21.39	22.00
		36	0	20.38	20.33	20.36	21.00
		36	18	20.53	20.42	20.48	21.00
		36	39	20.46	20.49	20.45	21.00
		75	0	20.40	20.28	20.33	21.00
	64QAM	1	0	20.99	20.96	20.51	21.00
		1	38	20.48	20.84	20.64	21.00
		1	74	20.48	20.75	20.36	21.00
		36	0	19.40	19.36	19.37	20.00
		36	18	19.50	19.44	19.50	20.00
		36	39	19.46	19.52	19.43	20.00
		75	0	19.39	19.32	19.29	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	22.23	22.42	22.51	23.00
		1	50	22.60	22.49	22.36	23.00
		1	99	22.41	22.44	22.23	23.00
		50	0	21.38	21.36	21.43	22.00
		50	25	21.51	21.50	21.46	22.00
		50	50	21.50	21.50	21.52	22.00
		100	0	21.46	21.37	21.42	22.00
	16QAM	1	0	21.91	21.65	21.69	22.00
		1	50	21.62	21.64	21.66	22.00
		1	99	21.84	21.52	21.66	22.00
		50	0	20.37	20.47	20.40	21.00
		50	25	20.57	20.48	20.38	21.00
		50	50	20.54	20.59	20.57	21.00
		100	0	20.47	20.41	20.34	21.00
	64QAM	1	0	20.97	20.65	20.72	21.00
		1	50	20.66	20.68	20.66	21.00
		1	99	20.88	20.49	20.70	21.00
		50	0	19.42	19.43	19.36	20.00
		50	25	19.60	19.53	19.35	20.00
		50	50	19.59	19.56	19.60	20.00
		100	0	19.44	19.45	19.39	20.00



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LTE Band 2 Receiver on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	15.39	15.25	15.30	16.50
		1	2	15.36	15.49	15.31	16.50
		1	5	15.42	15.39	15.27	16.50
		3	0	15.40	15.35	15.40	16.50
		3	2	15.39	15.41	15.35	16.50
		3	3	15.47	15.49	15.33	16.50
		6	0	15.40	15.42	15.31	16.50
	16QAM	1	0	15.05	15.63	16.20	16.50
		1	2	16.13	16.18	15.60	16.50
		1	5	15.56	15.46	15.62	16.50
		3	0	15.43	15.49	15.51	16.50
		3	2	15.43	15.80	15.37	16.50
		3	3	15.34	15.56	15.51	16.50
		6	0	15.43	15.48	15.35	16.50
	64QAM	1	0	15.00	15.57	16.12	16.50
		1	2	16.06	16.12	15.53	16.50
		1	5	15.48	15.39	15.56	16.50
		3	0	15.37	15.41	15.46	16.50
		3	2	15.36	15.72	15.29	16.50
		3	3	15.29	15.48	15.44	16.50
		6	0	15.38	15.43	15.27	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	15.40	15.37	15.44	16.50
		1	7	15.44	15.74	15.26	16.50
		1	14	15.24	15.41	15.22	16.50
		8	0	15.48	15.45	15.40	16.50
		8	4	15.45	15.37	15.47	16.50
		8	7	15.47	15.41	15.42	16.50
		15	0	15.44	15.51	15.53	16.50
	16QAM	1	0	15.44	15.25	16.06	16.50
		1	7	16.04	15.61	15.67	16.50
		1	14	15.64	15.86	15.84	16.50
		8	0	15.57	15.55	15.48	16.50
		8	4	15.67	15.58	15.47	16.50
		8	7	15.54	15.53	15.47	16.50
		15	0	15.51	15.41	15.34	16.50
	64QAM	1	0	15.37	15.19	15.99	16.50
		1	7	15.98	15.53	15.62	16.50
		1	14	15.59	15.81	15.77	16.50
		8	0	15.52	15.50	15.40	16.50
		8	4	15.60	15.52	15.42	16.50
		8	7	15.47	15.48	15.40	16.50
		15	0	15.45	15.34	15.27	16.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	15.17	15.30	15.18	16.50
		1	13	15.64	15.26	15.34	16.50
		1	24	15.09	15.24	15.33	16.50
		12	0	15.44	15.52	15.42	16.50
		12	6	15.54	15.49	15.42	16.50
		12	13	15.42	15.47	15.46	16.50
		25	0	15.53	15.43	15.43	16.50
	16QAM	1	0	15.64	15.54	16.05	16.50
		1	13	16.10	15.75	16.09	16.50
		1	24	15.47	15.77	15.57	16.50
		12	0	15.43	15.59	15.53	16.50
		12	6	15.55	15.56	15.56	16.50
		12	13	15.52	15.39	15.44	16.50
		25	0	15.42	15.41	15.49	16.50
	64QAM	1	0	15.59	15.49	15.97	16.50
		1	13	16.05	15.69	16.01	16.50
		1	24	15.42	15.70	15.50	16.50
		12	0	15.37	15.54	15.48	16.50
		12	6	15.49	15.49	15.49	16.50
		12	13	15.47	15.31	15.36	16.50
		25	0	15.36	15.36	15.44	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	14.63	15.47	15.50	16.50
		1	25	15.40	15.38	15.38	16.50
		1	49	15.28	15.08	15.25	16.50
		25	0	15.31	15.35	15.40	16.50
		25	13	15.49	15.48	15.49	16.50
		25	25	15.36	15.35	15.41	16.50
		50	0	15.49	15.35	15.36	16.50
	16QAM	1	0	15.25	14.77	16.07	16.50
		1	25	15.61	15.58	15.51	16.50
		1	49	15.62	15.31	15.82	16.50
		25	0	15.33	15.32	15.47	16.50
		25	13	15.50	15.32	15.41	16.50
		25	25	15.31	15.25	15.22	16.50
		50	0	15.37	15.25	15.35	16.50
	64QAM	1	0	15.18	14.72	16.02	16.50
		1	25	15.54	15.50	15.45	16.50
		1	49	15.56	15.25	15.76	16.50
		25	0	15.26	15.25	15.42	16.50
		25	13	15.44	15.25	15.35	16.50
		25	25	15.24	15.18	15.15	16.50
		50	0	15.31	15.19	15.29	16.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	15.42	15.63	15.55	16.50
		1	38	15.45	15.51	15.65	16.50
		1	74	15.26	15.70	15.58	16.50
		36	0	15.50	15.43	15.53	16.50
		36	18	15.63	15.47	15.58	16.50
		36	39	15.68	15.70	15.60	16.50
		75	0	15.55	15.54	15.63	16.50
	16QAM	1	0	15.70	15.57	15.86	16.50
		1	38	15.70	15.87	15.25	16.50
		1	74	15.74	15.59	15.77	16.50
		36	0	15.47	15.45	15.46	16.50
		36	18	15.55	15.64	15.64	16.50
		36	39	15.64	15.56	15.51	16.50
		75	0	15.61	15.47	15.57	16.50
	64QAM	1	0	15.62	15.49	15.78	16.50
		1	38	15.64	15.81	15.18	16.50
		1	74	15.68	15.51	15.72	16.50
		36	0	15.42	15.40	15.41	16.50
		36	18	15.47	15.56	15.58	16.50
		36	39	15.56	15.49	15.43	16.50
		75	0	15.56	15.40	15.50	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	15.51	15.55	15.53	16.50
		1	50	15.56	15.40	15.37	16.50
		1	99	15.40	15.54	15.50	16.50
		50	0	15.46	15.47	15.48	16.50
		50	25	15.60	15.55	15.51	16.50
		50	50	15.53	15.53	15.66	16.50
		100	0	15.67	15.50	15.45	16.50
	16QAM	1	0	15.60	15.65	16.02	16.50
		1	50	15.76	15.63	16.02	16.50
		1	99	15.53	16.02	15.94	16.50
		50	0	15.49	15.51	15.37	16.50
		50	25	15.61	15.48	15.44	16.50
		50	50	15.59	15.58	15.62	16.50
		100	0	15.51	15.58	15.55	16.50
	64QAM	1	0	15.54	15.59	15.94	16.50
		1	50	15.70	15.56	15.94	16.50
		1	99	15.48	15.96	15.88	16.50
		50	0	15.42	15.45	15.32	16.50
		50	25	15.54	15.41	15.39	16.50
		50	50	15.51	15.52	15.56	16.50
		100	0	15.46	15.53	15.48	16.50



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LTE Band 4 Receiver off/Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	22.06	22.06	22.19	23.50
		1	2	22.20	22.03	22.24	23.50
		1	5	22.05	22.06	22.02	23.50
		3	0	22.11	22.12	22.14	23.50
		3	2	22.17	22.14	22.11	23.50
		3	3	22.08	22.05	22.12	23.50
	16QAM	6	0	21.20	21.21	21.19	22.50
		1	0	21.17	21.25	20.99	22.50
		1	2	21.60	21.40	21.21	22.50
		1	5	21.21	21.39	21.81	22.50
		3	0	21.23	21.29	21.19	22.50
		3	2	21.10	21.17	21.35	22.50
	64QAM	3	3	21.11	21.19	21.22	22.50
		6	0	20.33	20.31	20.30	21.50
		1	0	20.14	20.21	20.02	21.50
		1	2	20.58	20.46	20.22	21.50
		1	5	20.24	20.39	20.87	21.50
		3	0	20.24	20.31	20.23	21.50
3MHz	QPSK	3	2	20.14	20.16	20.41	21.50
		3	3	20.08	20.22	20.26	21.50
		6	0	19.31	19.33	19.28	20.50
	16QAM	1	0	22.14	22.20	22.18	23.50
		1	7	22.28	22.16	22.22	23.50
		1	14	22.14	21.92	22.13	23.50
	64QAM	8	0	21.31	21.28	21.22	22.50
		8	4	21.33	21.33	21.34	22.50
		8	7	21.26	21.25	21.22	22.50
	16QAM	15	0	21.29	21.27	21.14	22.50
		1	0	21.52	21.96	21.40	22.50
		1	7	21.61	20.99	21.36	22.50
		1	14	21.51	21.34	21.84	22.50
		8	0	20.40	20.38	20.28	21.50
		8	4	20.35	20.41	20.31	21.50
	64QAM	8	7	20.31	20.22	20.41	21.50
		15	0	20.34	20.31	20.23	21.50
		1	0	20.53	20.93	20.36	21.50
		1	7	20.57	20.02	20.42	21.50
		1	14	20.53	20.37	20.84	21.50
		8	0	19.41	19.34	19.34	20.50
	16QAM	8	4	19.37	19.40	19.35	20.50
		8	7	19.28	19.20	19.42	20.50
		15	0	19.30	19.37	19.25	20.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	22.03	22.13	22.06	23.50
		1	13	22.25	22.16	22.32	23.50
		1	24	21.93	22.18	21.99	23.50
		12	0	21.27	21.22	21.26	22.50
		12	6	21.30	21.31	21.24	22.50
		12	13	21.32	21.23	21.22	22.50
		25	0	21.24	21.26	21.20	22.50
	16QAM	1	0	21.43	21.59	21.31	22.50
		1	13	21.54	21.30	21.63	22.50
		1	24	22.00	21.23	21.65	22.50
		12	0	20.32	20.25	20.28	21.50
		12	6	20.33	20.37	20.28	21.50
		12	13	20.21	20.15	20.22	21.50
		25	0	20.36	20.24	20.28	21.50
	64QAM	1	0	20.43	20.57	20.34	21.50
		1	13	20.55	20.28	20.61	21.50
		1	24	20.99	20.21	20.65	21.50
		12	0	19.32	19.22	19.27	20.50
		12	6	19.31	19.33	19.26	20.50
		12	13	19.27	19.15	19.24	20.50
		25	0	19.36	19.21	19.33	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	21.90	21.87	21.71	23.50
		1	25	22.04	21.96	21.96	23.50
		1	49	21.95	21.66	21.83	23.50
		25	0	21.12	21.22	21.08	22.50
		25	13	21.26	21.24	21.22	22.50
		25	25	21.12	21.15	21.18	22.50
		50	0	21.21	21.12	21.10	22.50
	16QAM	1	0	21.13	21.03	21.36	22.50
		1	25	21.41	21.29	20.92	22.50
		1	49	21.04	21.19	21.54	22.50
		25	0	20.09	20.20	20.15	21.50
		25	13	20.41	20.35	20.14	21.50
		25	25	20.11	20.08	20.23	21.50
		50	0	20.22	20.14	19.92	21.50
	64QAM	1	0	20.19	20.02	20.34	21.50
		1	25	20.37	20.26	19.95	21.50
		1	49	20.05	20.18	20.55	21.50
		25	0	19.05	19.20	19.21	20.50
		25	13	19.37	19.33	19.10	20.50
		25	25	19.08	19.07	19.29	20.50
		50	0	19.23	19.16	18.90	20.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	22.23	22.06	22.14	23.50
		1	38	22.30	22.26	22.23	23.50
		1	74	22.24	22.09	22.16	23.50
		36	0	21.28	21.21	21.22	22.50
		36	18	21.48	21.39	21.28	22.50
		36	39	21.43	21.36	21.31	22.50
		75	0	21.42	21.37	21.25	22.50
	16QAM	1	0	21.66	21.62	21.74	22.50
		1	38	21.67	21.95	21.83	22.50
		1	74	21.28	21.39	21.53	22.50
		36	0	20.12	20.31	20.26	21.50
		36	18	20.41	20.38	20.35	21.50
		36	39	20.79	20.32	20.41	21.50
		75	0	20.43	20.43	20.22	21.50
	64QAM	1	0	20.69	20.61	20.78	21.50
		1	38	20.73	20.92	20.79	21.50
		1	74	20.25	20.41	20.50	21.50
		36	0	19.09	19.34	19.27	20.50
		36	18	19.45	19.43	19.36	20.50
		36	39	19.75	19.28	19.37	20.50
		75	0	19.41	19.48	19.28	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	22.17	21.91	22.13	23.50
		1	50	22.20	22.23	22.01	23.50
		1	99	22.06	22.01	22.00	23.50
		50	0	21.23	21.33	21.26	22.50
		50	25	21.48	21.38	21.39	22.50
		50	50	21.41	21.37	21.45	22.50
		100	0	21.26	21.40	21.32	22.50
	16QAM	1	0	20.92	21.54	21.21	22.50
		1	50	21.64	21.86	21.42	22.50
		1	99	21.11	21.74	21.38	22.50
		50	0	20.31	20.33	20.29	21.50
		50	25	20.54	20.49	20.44	21.50
		50	50	20.39	20.42	20.34	21.50
		100	0	20.36	20.39	20.37	21.50
	64QAM	1	0	19.93	20.55	20.26	21.50
		1	50	20.62	20.90	20.47	21.50
		1	99	20.17	20.76	20.34	21.50
		50	0	19.34	19.34	19.33	20.50
		50	25	19.53	19.46	19.46	20.50
		50	50	19.37	19.48	19.31	20.50
		100	0	19.34	19.38	19.36	20.50



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LTE Band 4 Receiver on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	16.2	16.18	16.17	17.50
		1	2	16.23	16.21	16.27	17.50
		1	5	16.17	16.18	16.19	17.50
		3	0	16.25	16.28	16.19	17.50
		3	2	16.24	16.23	16.33	17.50
		3	3	16.19	16.12	16.25	17.50
		6	0	16.26	16.25	16.29	17.50
	16QAM	1	0	16.38	16.58	16.42	17.50
		1	2	16.78	16.64	16.84	17.50
		1	5	16.44	16.69	16.5	17.50
		3	0	16.37	16.37	16.39	17.50
		3	2	16.27	16.34	16.38	17.50
		3	3	16.3	16.32	16.32	17.50
		6	0	16.38	16.56	16.47	17.50
	64QAM	1	0	16.15	16.20	16.09	17.50
		1	2	16.61	16.56	16.25	17.50
		1	5	16.26	16.49	16.91	17.50
		3	0	16.28	16.31	16.29	17.50
		3	2	16.17	16.22	16.46	17.50
		3	3	16.09	16.29	16.31	17.50
		6	0	16.30	16.30	16.38	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	16.31	16.18	16.42	17.50
		1	7	16.14	16.42	16.23	17.50
		1	14	16.22	16.2	16.24	17.50
		8	0	16.33	16.42	16.4	17.50
		8	4	16.35	16.37	16.44	17.50
		8	7	16.37	16.29	16.47	17.50
		15	0	16.38	16.33	16.29	17.50
	16QAM	1	0	16.26	16.76	16.41	17.50
		1	7	16.84	16.88	16.53	17.50
		1	14	16.83	16.52	16.74	17.50
		8	0	16.48	16.51	16.37	17.50
		8	4	16.5	16.4	16.47	17.50
		8	7	16.49	16.34	16.43	17.50
		15	0	16.34	16.35	16.37	17.50
	64QAM	1	0	16.49	17.02	16.33	17.50
		1	7	16.53	16.03	16.50	17.50
		1	14	16.55	16.42	16.88	17.50
		8	0	16.50	16.33	16.29	17.50
		8	4	16.42	16.37	16.44	17.50
		8	7	16.35	16.25	16.40	17.50
		15	0	16.33	16.39	16.24	17.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	16.15	16.21	16.36	17.50
		1	13	16.36	16.39	16.32	17.50
		1	24	16.26	16.14	16.13	17.50
		12	0	16.4	16.44	16.4	17.50
		12	6	16.43	16.42	16.42	17.50
		12	13	16.4	16.32	16.37	17.50
		25	0	16.37	16.38	16.24	17.50
	16QAM	1	0	16.18	16.51	16.53	17.50
		1	13	16.87	16.6	16.55	17.50
		1	24	16.62	16.44	16.74	17.50
		12	0	16.44	16.36	16.48	17.50
		12	6	16.43	16.38	16.36	17.50
		12	13	16.35	16.39	16.33	17.50
		25	0	16.42	16.44	16.25	17.50
	64QAM	1	0	16.39	16.59	16.39	17.50
		1	13	16.56	16.29	16.61	17.50
		1	24	16.99	16.23	16.69	17.50
		12	0	16.33	16.19	16.26	17.50
		12	6	16.27	16.31	16.21	17.50
		12	13	16.27	16.20	16.33	17.50
		25	0	16.33	16.29	16.42	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	15.99	15.89	16.04	17.50
		1	25	16.22	16.09	16.32	17.50
		1	49	15.82	15.73	15.8	17.50
		25	0	16.25	16.37	16.31	17.50
		25	13	16.48	16.39	16.31	17.50
		25	25	16.27	16.59	16.32	17.50
		50	0	16.33	16.3	16.24	17.50
	16QAM	1	0	16.64	15.72	16.5	17.50
		1	25	16.81	17.07	16.54	17.50
		1	49	16.23	16.42	16.3	17.50
		25	0	16.19	16.21	16.24	17.50
		25	13	16.25	16.39	16.35	17.50
		25	25	16.23	16.33	16.27	17.50
		50	0	16.32	16.35	16.32	17.50
	64QAM	1	0	16.17	16.05	16.30	17.50
		1	25	16.43	16.32	16.01	17.50
		1	49	16.13	16.25	16.63	17.50
		25	0	16.13	16.26	16.19	17.50
		25	13	16.43	16.40	16.10	17.50
		25	25	16.18	16.10	16.31	17.50
		50	0	16.25	16.23	15.98	17.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	16.32	16.22	16.32	17.50
		1	38	16.34	16.35	16.46	17.50
		1	74	16.13	16.31	16.25	17.50
		36	0	16.4	16.37	16.43	17.50
		36	18	16.59	16.53	16.42	17.50
		36	39	16.52	16.46	16.41	17.50
		75	0	16.48	16.47	16.41	17.50
	16QAM	1	0	16.33	16.91	16.55	17.50
		1	38	16.57	16.59	16.98	17.50
		1	74	16.91	16.19	17.03	17.50
		36	0	16.39	16.32	16.37	17.50
		36	18	16.52	16.53	16.5	17.50
		36	39	16.45	16.46	16.52	17.50
		75	0	16.56	16.44	16.49	17.50
	64QAM	1	0	16.71	16.58	16.73	17.50
		1	38	16.72	16.97	16.75	17.50
		1	74	16.21	16.45	16.52	17.50
		36	0	16.08	16.43	16.35	17.50
		36	18	16.55	16.53	16.32	17.50
		36	39	16.85	16.37	16.39	17.50
		75	0	16.40	16.43	16.37	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	16.23	16.34	16.25	17.50
		1	50	16.32	16.40	16.18	17.50
		1	99	16.12	15.84	16.18	17.50
		50	0	16.40	16.44	16.41	17.50
		50	25	16.57	16.52	16.52	17.50
		50	50	16.45	16.43	16.54	17.50
		100	0	16.47	16.48	16.46	17.50
	16QAM	1	0	16.94	16.01	16.37	17.50
		1	50	16.68	16.34	16.38	17.50
		1	99	16.67	16.19	16.34	17.50
		50	0	16.37	16.28	16.37	17.50
		50	25	16.67	16.58	16.48	17.50
		50	50	16.50	16.52	16.52	17.50
		100	0	16.51	16.48	16.47	17.50
	64QAM	1	0	15.96	16.54	16.23	17.50
		1	50	16.60	16.91	16.57	17.50
		1	99	16.26	16.79	16.37	17.50
		50	0	16.44	16.32	16.36	17.50
		50	25	16.49	16.54	16.53	17.50
		50	50	16.33	16.56	16.38	17.50
		100	0	16.37	16.46	16.44	17.50



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LTE Band 7 Receiver off/Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	19.88	19.84	20.04	21.00
		1	13	19.94	20.09	20.05	21.00
		1	24	19.97	19.97	20.01	21.00
		12	0	18.92	18.93	19.05	20.00
		12	6	18.95	18.95	19.05	20.00
		12	13	18.91	18.94	19.10	20.00
		25	0	18.94	18.99	19.07	20.00
	16QAM	1	0	19.38	19.41	19.25	20.00
		1	13	19.37	19.59	19.25	20.00
		1	24	19.46	19.12	19.60	20.00
		12	0	17.92	17.96	18.02	19.00
		12	6	18.04	18.03	18.04	19.00
		12	13	17.92	17.99	18.12	19.00
		25	0	18.02	17.88	18.00	19.00
	64QAM	1	0	17.66	17.63	17.87	19.00
		1	13	17.61	17.48	17.67	19.00
		1	24	17.55	17.50	17.54	19.00
		12	0	16.48	16.36	16.47	18.00
		12	6	16.61	16.54	16.59	18.00
		12	13	16.48	16.43	16.49	18.00
		25	0	16.51	16.39	16.46	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	19.77	19.82	19.89	21.00
		1	25	19.74	20.22	19.86	21.00
		1	49	19.79	19.91	20.15	21.00
		25	0	18.86	18.96	18.96	20.00
		25	13	18.90	19.04	19.06	20.00
		25	25	18.96	19.01	19.12	20.00
		50	0	18.90	18.83	18.92	20.00
	16QAM	1	0	19.07	19.48	19.50	20.00
		1	25	19.25	19.31	19.25	20.00
		1	49	19.25	19.29	19.63	20.00
		25	0	17.97	17.90	17.95	19.00
		25	13	18.04	17.90	18.11	19.00
		25	25	17.96	17.78	18.15	19.00
		50	0	17.92	17.85	18.00	19.00
	64QAM	1	0	18.27	18.09	17.67	19.00
		1	25	18.32	18.19	17.81	19.00
		1	49	18.36	17.71	17.30	19.00
		25	0	17.33	17.35	16.74	18.00
		25	13	17.33	17.27	16.76	18.00
		25	25	17.34	17.11	16.71	18.00
		50	0	17.24	17.22	16.70	18.00





Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	19.98	20.18	20.16	21.00
		1	38	20.03	20.27	20.19	21.00
		1	74	20.22	20.24	20.24	21.00
		36	0	19.00	19.15	19.16	20.00
		36	18	19.21	19.22	19.23	20.00
		36	39	19.14	19.13	19.32	20.00
		75	0	19.18	19.06	19.17	20.00
	16QAM	1	0	19.32	19.09	19.42	20.00
		1	38	19.54	19.37	19.43	20.00
		1	74	19.16	19.74	19.37	20.00
		36	0	17.97	18.19	18.23	19.00
		36	18	18.19	18.23	18.30	19.00
		36	39	18.29	18.25	18.51	19.00
		75	0	18.13	18.12	18.13	19.00
	64QAM	1	0	17.89	17.75	17.77	19.00
		1	38	17.92	17.67	17.75	19.00
		1	74	17.95	17.63	17.67	19.00
		36	0	16.82	16.70	16.64	18.00
		36	18	16.83	16.54	16.63	18.00
		36	39	16.76	16.60	16.70	18.00
		75	0	16.81	16.59	16.59	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	20.07	20.11	20.03	21.00
		1	50	20.12	20.04	20.12	21.00
		1	99	20.07	20.28	20.29	21.00
		50	0	19.15	19.44	19.10	20.00
		50	25	19.15	19.22	19.42	20.00
		50	50	19.30	19.14	19.27	20.00
		100	0	19.15	19.11	19.19	20.00
	16QAM	1	0	19.68	19.43	19.18	20.00
		1	50	19.50	19.32	19.26	20.00
		1	99	19.66	19.49	19.31	20.00
		50	0	18.08	18.05	18.24	19.00
		50	25	18.32	18.34	18.37	19.00
		50	50	18.33	18.17	18.26	19.00
		100	0	18.15	18.12	18.26	19.00
	64QAM	1	0	18.28	18.65	18.62	19.00
		1	50	18.48	18.62	18.49	19.00
		1	99	18.16	18.20	18.01	19.00
		50	0	17.05	17.21	17.37	18.00
		50	25	17.07	17.22	17.41	18.00
		50	50	17.33	17.30	17.52	18.00
		100	0	17.09	17.11	17.22	18.00



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LTE Band 7 Receiver on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	13.40	13.40	13.47	14.50
		1	13	13.39	13.59	13.56	14.50
		1	24	13.36	13.43	13.65	14.50
		12	0	13.36	13.51	13.50	14.50
		12	6	13.49	13.55	13.61	14.50
		12	13	13.48	13.51	13.71	14.50
		25	0	13.47	13.48	13.53	14.50
	16QAM	1	0	13.87	13.53	13.74	14.50
		1	13	13.70	13.75	13.86	14.50
		1	24	13.86	13.87	13.88	14.50
		12	0	13.44	13.51	13.51	14.50
		12	6	13.48	13.63	13.66	14.50
		12	13	13.48	13.55	13.69	14.50
		25	0	13.48	13.44	13.49	14.50
	64QAM	1	0	13.03	13.25	13.43	14.50
		1	13	13.12	13.32	13.42	14.50
		1	24	13.23	13.40	13.55	14.50
		12	0	12.97	13.22	13.15	14.50
		12	6	13.05	13.21	13.30	14.50
		12	13	13.09	13.25	13.25	14.50
		25	0	13.06	13.35	13.22	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	13.31	13.41	13.47	14.50
		1	25	13.31	13.40	13.61	14.50
		1	49	13.42	13.51	13.55	14.50
		25	0	13.39	13.53	13.53	14.50
		25	13	13.45	13.52	13.66	14.50
		25	25	13.49	13.57	13.63	14.50
		50	0	13.39	13.41	13.46	14.50
	16QAM	1	0	13.86	13.87	13.76	14.50
		1	25	13.47	13.88	13.60	14.50
		1	49	13.83	13.87	13.86	14.50
		25	0	13.46	13.53	13.63	14.50
		25	13	13.53	13.50	13.68	14.50
		25	25	13.41	13.55	13.71	14.50
		50	0	13.52	13.39	13.36	14.50
	64QAM	1	0	13.02	13.02	13.58	14.50
		1	25	13.11	13.54	13.68	14.50
		1	49	13.45	13.09	13.33	14.50
		25	0	12.94	13.29	13.18	14.50
		25	13	13.06	13.08	13.27	14.50
		25	25	13.20	13.29	13.25	14.50
		50	0	13.09	13.11	13.26	14.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	13.51	13.54	13.51	14.50
		1	38	13.57	13.64	13.68	14.50
		1	74	13.60	13.62	13.71	14.50
		36	0	13.63	13.68	13.71	14.50
		36	18	13.63	13.68	13.81	14.50
		36	39	13.68	13.70	13.82	14.50
		75	0	13.62	13.63	13.73	14.50
	16QAM	1	0	13.81	13.81	13.86	14.50
		1	38	13.63	13.87	13.86	14.50
		1	74	13.89	13.86	13.83	14.50
		36	0	13.58	13.71	13.67	14.50
		36	18	13.63	13.65	13.77	14.50
		36	39	13.69	13.71	13.88	14.50
		75	0	13.65	13.64	13.81	14.50
	64QAM	1	0	13.31	13.87	13.78	14.50
		1	38	13.35	13.79	13.67	14.50
		1	74	13.85	13.85	13.38	14.50
		36	0	13.27	13.47	13.33	14.50
		36	18	13.36	13.37	13.43	14.50
		36	39	13.37	13.24	13.38	14.50
		75	0	13.27	13.27	13.31	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	13.52	13.47	13.47	14.50
		1	50	13.90	13.43	13.55	14.50
		1	99	13.56	13.67	13.67	14.50
		50	0	13.67	13.68	13.70	14.50
		50	25	13.77	13.59	13.76	14.50
		50	50	13.73	13.76	13.76	14.50
		100	0	13.62	13.56	13.76	14.50
	16QAM	1	0	13.72	13.87	13.83	14.50
		1	50	13.87	13.89	13.84	14.50
		1	99	13.86	13.88	13.86	14.50
		50	0	13.64	13.67	13.70	14.50
		50	25	13.65	13.72	13.77	14.50
		50	50	13.72	13.75	13.88	14.50
		100	0	13.62	13.66	13.72	14.50
	64QAM	1	0	13.57	13.89	13.86	14.50
		1	50	13.81	13.87	13.83	14.50
		1	99	13.50	13.55	13.36	14.50
		50	0	13.31	13.46	13.43	14.50
		50	25	13.40	13.32	13.53	14.50
		50	50	13.35	13.47	13.59	14.50
		100	0	13.33	13.42	13.39	14.50



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LTE Band 38 Receiver off/Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	21.84	21.79	21.90	23.00
		1	13	21.95	21.90	21.99	23.00
		1	24	21.89	21.84	21.89	23.00
		12	0	20.98	20.98	20.99	22.00
		12	6	20.95	20.98	21.04	22.00
		12	13	21.04	21.04	21.02	22.00
		25	0	20.90	20.94	20.93	22.00
	16QAM	1	0	20.87	21.07	20.85	22.00
		1	13	21.09	21.10	21.10	22.00
		1	24	21.02	20.97	21.11	22.00
		12	0	19.91	19.94	19.92	21.00
		12	6	20.00	20.01	20.00	21.00
		12	13	19.93	19.99	20.02	21.00
		25	0	20.00	19.99	20.08	21.00
	64QAM	1	0	20.65	19.99	20.11	21.00
		1	13	20.98	20.31	20.86	21.00
		1	24	20.70	20.33	20.87	21.00
		12	0	19.88	18.88	19.84	20.00
		12	6	19.98	18.99	20.00	20.00
		12	13	19.96	19.02	19.89	20.00
		25	0	19.01	18.93	19.92	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	21.63	21.92	21.94	23.00
		1	25	21.97	21.86	21.90	23.00
		1	49	21.59	21.85	21.97	23.00
		25	0	20.83	20.86	20.86	22.00
		25	13	20.86	20.93	21.08	22.00
		25	25	20.92	20.91	20.92	22.00
		50	0	20.85	20.92	20.94	22.00
	16QAM	1	0	20.75	21.01	21.07	22.00
		1	25	21.05	21.03	21.05	22.00
		1	49	20.74	20.99	21.17	22.00
		25	0	19.81	19.94	19.88	21.00
		25	13	19.99	20.02	20.09	21.00
		25	25	19.95	19.90	19.90	21.00
		50	0	19.83	20.00	20.02	21.00
	64QAM	1	0	20.66	20.10	20.75	21.00
		1	25	20.53	20.37	20.99	21.00
		1	49	20.75	20.13	20.91	21.00
		25	0	19.93	18.95	19.97	20.00
		25	13	19.99	19.02	19.99	20.00
		25	25	19.84	18.91	19.94	20.00
		50	0	19.90	18.92	19.21	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	22.11	22.13	22.11	23.00
		1	38	22.05	22.13	22.02	23.00
		1	74	21.94	22.02	22.01	23.00
		36	0	21.10	21.16	21.19	22.00
		36	18	21.09	21.22	21.07	22.00
		36	39	21.12	21.09	21.04	22.00
		75	0	21.23	21.07	21.07	22.00
	16QAM	1	0	21.18	21.31	21.38	22.00
		1	38	21.26	21.20	21.36	22.00
		1	74	21.16	21.34	21.24	22.00
		36	0	20.02	20.16	20.06	21.00
		36	18	20.19	20.23	20.17	21.00
		36	39	20.11	20.03	20.22	21.00
		75	0	20.07	20.18	20.20	21.00
	64QAM	1	0	20.29	20.78	20.28	21.00
		1	38	20.57	20.72	20.12	21.00
		1	74	20.17	20.79	20.08	21.00
		36	0	18.87	19.74	18.69	20.00
		36	18	18.98	19.89	18.90	20.00
		36	39	18.90	19.85	18.94	20.00
		75	0	18.97	19.80	18.85	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	22.27	22.27	22.09	23.00
		1	50	22.13	22.04	22.02	23.00
		1	99	22.17	22.12	22.17	23.00
		50	0	21.12	21.11	21.11	22.00
		50	25	21.14	21.21	21.31	22.00
		50	50	21.12	21.15	21.15	22.00
		100	0	21.04	21.05	21.16	22.00
	16QAM	1	0	21.37	21.58	21.43	22.00
		1	50	21.21	21.20	21.33	22.00
		1	99	21.06	21.20	21.36	22.00
		50	0	20.06	20.12	20.12	21.00
		50	25	20.14	20.19	20.21	21.00
		50	50	20.21	20.16	20.21	21.00
		100	0	20.15	20.17	20.12	21.00
	64QAM	1	0	20.76	20.48	20.78	21.00
		1	50	20.47	20.52	20.44	21.00
		1	99	20.61	20.37	20.48	21.00
		50	0	19.48	19.38	19.31	20.00
		50	25	19.59	19.50	19.51	20.00
		50	50	19.33	19.33	19.42	20.00
		100	0	19.44	19.52	19.48	20.00



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LTE Band 38 Receiver on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	16.25	16.42	16.41	17.50
		1	13	16.48	16.47	16.43	17.50
		1	24	16.34	16.40	16.44	17.50
		12	0	16.58	16.61	16.51	17.50
		12	6	16.64	16.68	16.63	17.50
		12	13	16.63	16.59	16.61	17.50
		25	0	16.61	16.58	16.59	17.50
	16QAM	1	0	16.57	16.77	16.71	17.50
		1	13	16.83	16.86	16.87	17.50
		1	24	16.79	16.78	16.78	17.50
		12	0	16.65	16.63	16.59	17.50
		12	6	16.70	16.67	16.76	17.50
		12	13	16.63	16.67	16.71	17.50
		25	0	16.67	16.62	16.62	17.50
	64QAM	1	0	16.35	16.67	16.24	17.50
		1	13	16.61	16.61	16.42	17.50
		1	24	16.40	16.37	16.52	17.50
		12	0	16.30	16.40	16.35	17.50
		12	6	16.45	16.35	16.53	17.50
		12	13	16.29	16.26	16.49	17.50
		25	0	16.26	16.44	16.42	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	16.02	16.53	16.35	17.50
		1	25	16.38	16.36	16.47	17.50
		1	49	16.22	16.52	16.48	17.50
		25	0	16.37	16.56	16.41	17.50
		25	13	16.60	16.69	16.73	17.50
		25	25	16.51	16.55	16.57	17.50
		50	0	16.55	16.55	16.59	17.50
	16QAM	1	0	16.42	16.77	16.82	17.50
		1	25	16.67	16.78	16.74	17.50
		1	49	16.48	16.72	16.75	17.50
		25	0	16.41	16.65	16.54	17.50
		25	13	16.66	16.73	16.72	17.50
		25	25	16.56	16.64	16.46	17.50
		50	0	16.58	16.60	16.59	17.50
	64QAM	1	0	16.32	16.39	16.66	17.50
		1	25	16.47	16.53	16.50	17.50
		1	49	16.20	16.46	16.69	17.50
		25	0	16.25	16.25	16.26	17.50
		25	13	16.50	16.55	16.48	17.50
		25	25	16.41	16.48	16.29	17.50
		50	0	16.38	16.36	16.46	17.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	16.74	16.73	16.81	17.50
		1	38	16.70	16.69	16.73	17.50
		1	74	16.83	16.68	16.82	17.50
		36	0	16.66	16.74	16.59	17.50
		36	18	16.80	16.84	16.70	17.50
		36	39	16.75	16.71	16.79	17.50
		75	0	16.71	16.84	16.64	17.50
	16QAM	1	0	16.84	16.85	16.83	17.50
		1	38	16.83	16.86	16.79	17.50
		1	74	16.86	16.82	16.82	17.50
		36	0	16.71	16.81	16.71	17.50
		36	18	16.86	16.78	16.72	17.50
		36	39	16.78	16.76	16.75	17.50
		75	0	16.76	16.82	16.80	17.50
	64QAM	1	0	16.63	16.78	16.74	17.50
		1	38	16.66	16.74	16.75	17.50
		1	74	16.62	16.70	16.62	17.50
		36	0	16.49	16.62	16.55	17.50
		36	18	16.54	16.69	16.70	17.50
		36	39	16.57	16.47	16.62	17.50
		75	0	16.46	16.65	16.57	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	16.79	16.74	16.88	17.50
		1	50	16.72	16.75	16.77	17.50
		1	99	16.83	16.83	16.72	17.50
		50	0	16.66	16.64	16.60	17.50
		50	25	16.84	16.86	16.86	17.50
		50	50	16.71	16.72	16.78	17.50
		100	0	16.72	16.70	16.68	17.50
	16QAM	1	0	16.87	16.85	16.87	17.50
		1	50	16.83	16.76	16.82	17.50
		1	99	16.85	16.75	16.86	17.50
		50	0	16.66	16.69	16.72	17.50
		50	25	16.81	16.86	16.82	17.50
		50	50	16.81	16.81	16.82	17.50
		100	0	16.69	16.82	16.76	17.50
	64QAM	1	0	16.73	16.81	16.83	17.50
		1	50	16.62	16.64	16.85	17.50
		1	99	16.47	16.73	16.73	17.50
		50	0	16.49	16.61	16.49	17.50
		50	25	16.58	16.56	16.59	17.50
		50	50	16.60	16.50	16.68	17.50
		100	0	16.57	16.61	16.52	17.50



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LTE Band 41 Receiver off/Hotspot off				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	22.21	22.25	22.29	22.35	22.43	23.50
		1	13	22.23	22.39	22.35	22.55	22.50	23.50
		1	24	22.21	22.33	22.27	22.37	22.25	23.50
		12	0	21.34	21.48	21.37	21.49	21.48	22.50
		12	6	21.26	21.50	21.38	21.47	21.52	22.50
		12	13	21.32	21.39	21.46	21.49	21.40	22.50
		25	0	21.26	21.44	21.32	21.39	21.41	22.50
	16QAM	1	0	21.34	21.50	21.49	21.54	21.65	22.50
		1	13	21.36	21.57	21.49	21.54	21.53	22.50
		1	24	21.36	21.42	21.47	21.49	21.54	22.50
		12	0	20.32	20.38	20.37	20.42	20.41	21.50
		12	6	20.27	20.40	20.38	20.46	20.46	21.50
		12	13	20.32	20.38	20.36	20.48	20.40	21.50
		25	0	20.39	20.48	20.41	20.50	20.44	21.50
	64QAM	1	0	20.30	20.46	20.52	20.55	20.65	21.50
		1	13	20.33	20.60	20.53	20.51	20.59	21.50
		1	24	20.39	20.43	20.49	20.55	20.50	21.50
		12	0	19.30	19.34	19.33	19.41	19.42	20.50
		12	6	19.33	19.43	19.35	19.45	19.50	20.50
		12	13	19.31	19.34	19.36	19.46	19.36	20.50
		25	0	19.42	19.46	19.38	19.56	19.49	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	22.19	22.10	22.03	22.16	22.23	23.50
		1	25	22.18	22.28	22.22	22.34	22.26	23.50
		1	49	22.14	22.06	22.04	22.06	22.07	23.50
		25	0	21.28	21.40	21.30	21.39	21.43	22.50
		25	13	21.32	21.44	21.37	21.55	21.47	22.50
		25	25	21.22	21.35	21.37	21.34	21.36	22.50
		50	0	21.22	21.33	21.36	21.38	21.29	22.50
	16QAM	1	0	21.31	21.23	21.32	21.37	21.27	22.50
		1	25	21.25	21.48	21.48	21.47	21.53	22.50
		1	49	21.29	21.16	21.22	21.18	21.35	22.50
		25	0	20.33	20.32	20.31	20.38	20.40	21.50
		25	13	20.86	20.47	20.39	20.48	20.49	21.50
		25	25	20.43	20.41	20.35	20.46	20.35	21.50
		50	0	20.28	20.42	20.38	20.42	20.35	21.50
	64QAM	1	0	20.27	20.26	20.38	20.43	20.33	21.50
		1	25	20.28	20.53	20.45	20.45	20.56	21.50
		1	49	20.30	20.12	20.18	20.21	20.32	21.50
		25	0	19.30	19.31	19.37	19.41	19.45	20.50
		25	13	19.83	19.49	19.38	19.45	19.53	20.50
		25	25	19.49	19.42	19.41	19.47	19.33	20.50
		50	0	19.30	19.47	19.38	19.42	19.35	20.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	22.39	22.29	22.32	22.49	22.41	23.50
		1	38	22.32	22.43	22.44	22.61	22.59	23.50
		1	74	22.34	22.24	22.40	22.27	22.54	23.50
		36	0	21.46	21.46	21.50	21.54	21.47	22.50
		36	18	21.52	21.62	21.49	21.60	21.64	22.50
		36	39	21.47	21.44	21.51	21.52	21.67	22.50
		75	0	21.44	21.57	21.53	21.62	21.54	22.50
	16QAM	1	0	21.44	21.48	21.43	21.69	21.45	22.50
		1	38	21.50	21.60	21.70	21.79	21.74	22.50
		1	74	21.57	21.48	21.44	21.43	21.69	22.50
		36	0	20.52	20.46	20.48	20.52	20.48	21.50
		36	18	20.51	20.63	20.59	20.58	20.64	21.50
		36	39	20.43	20.52	20.58	20.55	20.62	21.50
		75	0	20.47	20.57	20.49	20.64	20.59	21.50
	64QAM	1	0	20.48	20.48	20.46	20.75	20.49	21.50
		1	38	20.49	20.56	20.72	20.82	20.76	21.50
		1	74	20.58	20.44	20.43	20.49	20.68	21.50
		36	0	19.53	19.51	19.53	19.49	19.47	20.50
		36	18	19.52	19.69	19.55	19.55	19.68	20.50
		36	39	19.48	19.50	19.54	19.61	19.66	20.50
		75	0	19.53	19.55	19.48	19.68	19.63	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	22.45	22.58	22.19	22.56	22.34	23.50
		1	50	22.40	22.49	22.49	22.62	22.68	23.50
		1	99	22.44	22.46	22.17	22.13	22.45	23.50
		50	0	21.46	21.56	21.51	21.61	21.48	22.50
		50	25	21.52	21.63	21.60	21.67	21.64	22.50
		50	50	21.51	21.58	21.48	21.59	21.72	22.50
		100	0	21.49	21.52	21.48	21.55	21.60	22.50
	16QAM	1	0	21.50	21.61	21.39	21.55	21.41	22.50
		1	50	21.54	21.63	21.61	21.71	21.78	22.50
		1	99	21.66	21.57	21.24	21.22	21.49	22.50
		50	0	20.49	20.57	20.47	20.69	20.57	21.50
		50	25	20.58	20.58	20.60	20.63	20.72	21.50
		50	50	20.31	20.57	20.58	20.51	20.68	21.50
		100	0	20.49	20.52	20.59	20.64	20.66	21.50
	64QAM	1	0	20.49	20.66	20.40	20.59	20.44	21.50
		1	50	20.50	20.67	20.66	20.68	20.81	21.50
		1	99	20.69	20.54	20.22	20.23	20.54	21.50
		50	0	19.51	19.62	19.46	19.74	19.58	20.50
		50	25	19.61	19.60	19.66	19.66	19.73	20.50
		50	50	19.29	19.61	19.60	19.55	19.70	20.50
		100	0	19.53	19.54	19.63	19.64	19.62	20.50



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LTE Band 41 Receiver on/Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	15.38	15.38	15.36	15.38	15.56	16.50
		1	13	15.43	15.50	15.52	15.47	15.50	16.50
		1	24	15.32	15.33	15.45	15.40	15.35	16.50
		12	0	15.54	15.56	15.56	15.55	15.56	16.50
		12	6	15.56	15.61	15.63	15.66	15.64	16.50
		12	13	15.53	15.63	15.66	15.62	15.63	16.50
		25	0	15.50	15.53	15.60	15.59	15.63	16.50
	16QAM	1	0	15.62	15.65	15.72	15.80	15.82	16.50
		1	13	15.76	15.78	15.83	15.81	15.80	16.50
		1	24	15.68	15.73	15.81	15.82	15.76	16.50
		12	0	15.56	15.64	15.64	15.79	15.62	16.50
		12	6	15.57	15.68	15.61	15.70	15.70	16.50
		12	13	15.55	15.65	15.63	15.79	15.59	16.50
		25	0	15.52	15.64	15.65	15.64	15.61	16.50
	64QAM	1	0	15.26	15.48	15.54	15.64	15.55	16.50
		1	13	15.31	15.60	15.46	15.50	15.69	16.50
		1	24	15.41	15.33	15.57	15.48	15.42	16.50
		12	0	15.37	15.25	15.39	15.48	15.41	16.50
		12	6	15.41	15.51	15.36	15.35	15.57	16.50
		12	13	15.31	15.32	15.35	15.55	15.29	16.50
		25	0	15.36	15.54	15.31	15.63	15.58	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39700	40160	40620	41080	41540	
10MHz	QPSK	1	0	15.35	15.10	15.11	15.24	15.22	16.50
		1	25	15.32	15.40	15.32	15.33	15.37	16.50
		1	49	15.43	15.15	15.19	15.22	15.14	16.50
		25	0	15.56	15.50	15.53	15.48	15.51	16.50
		25	13	15.55	15.66	15.58	15.64	15.59	16.50
		25	25	15.58	15.50	15.57	15.62	15.53	16.50
		50	0	15.42	15.50	15.48	15.59	15.43	16.50
	16QAM	1	0	15.78	15.80	15.50	15.65	15.66	16.50
		1	25	15.82	15.67	15.79	15.79	15.71	16.50
		1	49	15.64	15.54	15.47	15.81	15.45	16.50
		25	0	15.58	15.51	15.55	15.45	15.51	16.50
		25	13	15.56	15.58	15.62	15.63	15.66	16.50
		25	25	15.55	15.46	15.48	15.61	15.52	16.50
		50	0	15.51	15.55	15.51	15.51	15.60	16.50
	64QAM	1	0	15.19	15.19	15.44	15.40	15.33	16.50
		1	25	15.34	15.61	15.55	15.55	15.63	16.50
		1	49	15.29	15.16	15.21	15.20	15.42	16.50
		25	0	15.30	15.24	15.35	15.40	15.35	16.50
		25	13	15.81	15.48	15.47	15.38	15.58	16.50
		25	25	15.50	15.44	15.41	15.42	15.33	16.50
		50	0	15.38	15.43	15.45	15.49	15.39	16.50



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	15.71	15.49	15.47	15.54	15.57	16.50
		1	38	15.63	15.61	15.73	15.73	15.69	16.50
		1	74	15.65	15.56	15.62	15.41	15.64	16.50
		36	0	15.79	15.65	15.67	15.71	15.65	16.50
		36	18	15.77	15.76	15.80	15.72	15.76	16.50
		36	39	15.81	15.66	15.76	15.73	15.71	16.50
		75	0	15.82	15.75	15.74	15.59	15.67	16.50
	16QAM	1	0	15.83	15.54	15.64	15.70	15.48	16.50
		1	38	15.71	15.76	15.81	15.74	15.73	16.50
		1	74	15.80	15.55	15.66	15.58	15.70	16.50
		36	0	15.77	15.52	15.63	15.57	15.55	16.50
		36	18	15.71	15.64	15.76	15.75	15.73	16.50
		36	39	15.70	15.59	15.73	15.71	15.74	16.50
		75	0	15.66	15.70	15.61	15.67	15.58	16.50
	64QAM	1	0	15.46	15.44	15.48	15.80	15.45	16.50
		1	38	15.44	15.54	15.68	15.76	15.74	16.50
		1	74	15.50	15.41	15.38	15.40	15.71	16.50
		36	0	15.49	15.60	15.63	15.53	15.53	16.50
		36	18	15.43	15.73	15.60	15.53	15.70	16.50
		36	39	15.46	15.44	15.53	15.60	15.62	16.50
		75	0	15.48	15.64	15.44	15.66	15.62	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	15.66	15.76	15.39	15.51	15.34	16.50
		1	50	15.63	15.58	15.66	15.71	15.71	16.50
		1	99	15.74	15.74	15.44	15.30	15.59	16.50
		50	0	15.74	15.73	15.59	15.69	15.71	16.50
		50	25	15.79	15.76	15.74	15.81	15.84	16.50
		50	50	15.76	15.78	15.77	15.61	15.74	16.50
		100	0	15.72	15.59	15.71	15.63	15.72	16.50
	16QAM	1	0	15.79	15.84	15.57	15.67	15.48	16.50
		1	50	15.76	15.77	15.80	15.82	15.80	16.50
		1	99	15.84	15.79	15.57	15.40	15.64	16.50
		50	0	15.71	15.69	15.63	15.79	15.68	16.50
		50	25	15.73	15.72	15.75	15.78	15.79	16.50
		50	50	15.76	15.77	15.76	15.69	15.74	16.50
		100	0	15.74	15.64	15.61	15.62	15.68	16.50
	64QAM	1	0	15.47	15.70	15.50	15.56	15.46	16.50
		1	50	15.40	15.74	15.74	15.64	15.79	16.50
		1	99	15.66	15.63	15.18	15.23	15.59	16.50
		50	0	15.60	15.54	15.55	15.73	15.68	16.50
		50	25	15.51	15.59	15.66	15.75	15.76	16.50
		50	50	15.39	15.65	15.62	15.46	15.76	16.50
		100	0	15.56	15.49	15.69	15.57	15.56	16.50

Table 19: Conducted Power of LTE



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8.1.4 Conducted Power of Main Antenna(Ant10)

8.1.4.1 Conducted Power of GSM

GSM 1900										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	29.16	29.21	29.21	30.50	-9.19	19.97	20.02	20.02	21.31
GPRS/EGPRS (GMSK)	1 TX Slot	29.11	29.24	29.26	30.50	-9.19	19.92	20.05	20.07	21.31
	2 TX Slots	26.70	26.78	26.80	27.50	-6.18	20.52	20.60	20.62	21.32
	3 TX Slots	24.86	24.83	24.79	25.70	-4.42	20.44	20.41	20.37	21.28
	4 TX Slots	23.26	23.29	23.35	24.50	-3.17	20.09	20.12	20.18	21.33
EGPRS (8PSK)	1 TX Slot	25.39	25.42	25.38	27.00	-9.19	16.20	16.23	16.19	17.81
	2 TX Slots	22.32	22.45	22.36	24.00	-6.18	16.14	16.27	16.18	17.82
	3 TX Slots	20.59	20.52	20.49	22.20	-4.42	16.17	16.10	16.07	17.78
	4 TX Slots	19.11	19.01	19.05	21.00	-3.17	15.94	15.84	15.88	17.83

Table 20: Conducted Power of GSM

Note:

- 1) . CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used



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8.1.4.2 Conducted Power of WCDMA

WCDMA Band II Hotspot off					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.70	23.68	23.71	24.50
	12.2kbps AMR	23.68	23.64	23.71	24.50
HSDPA	Subtest 1	22.65	22.66	22.73	23.50
	Subtest 2	22.62	22.64	22.72	23.50
	Subtest 3	22.23	22.22	22.20	23.00
	Subtest 4	22.15	22.14	22.21	23.00
HSUPA	Subtest 1	22.72	22.70	22.73	23.50
	Subtest 2	20.69	20.64	20.73	21.50
	Subtest 3	21.71	21.66	21.69	22.50
	Subtest 4	20.73	20.62	20.71	21.50
	Subtest 5	22.69	22.70	22.68	23.50
DC-HSDPA	Subtest 1	22.67	22.62	22.70	23.50
	Subtest 2	22.60	22.60	22.64	23.50
	Subtest 3	22.18	22.26	22.21	23.00
	Subtest 4	22.11	22.16	22.16	23.00
HSPA+	16QAM	21.19	21.15	21.26	22.00
WCDMA Band II Hotspot on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	20.53	20.51	20.46	22.00
	12.2kbps AMR	20.48	20.44	20.43	22.00
HSDPA	Subtest 1	20.10	20.21	20.18	21.00
	Subtest 2	20.07	20.18	20.12	21.00
	Subtest 3	19.75	19.75	19.69	20.50
	Subtest 4	19.65	19.60	19.70	20.50
HSUPA	Subtest 1	20.24	20.17	20.18	21.00
	Subtest 2	18.20	18.14	18.24	19.00
	Subtest 3	19.25	19.13	19.23	20.00
	Subtest 4	18.22	18.14	18.23	19.00
	Subtest 5	20.22	20.22	20.18	21.00
DC-HSDPA	Subtest 1	20.16	20.15	20.16	21.00
	Subtest 2	20.07	20.15	20.12	21.00
	Subtest 3	19.71	19.73	19.66	20.50
	Subtest 4	19.61	19.68	19.64	20.50
HSPA+	16QAM	18.64	18.61	18.79	19.50



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WCDMA Band VI Hotspot off					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.64	23.55	23.65	24.50
	12.2kbps AMR	23.52	23.51	23.61	24.50
HSDPA	Subtest 1	22.60	22.51	22.66	23.50
	Subtest 2	22.54	22.54	22.59	23.50
	Subtest 3	22.12	22.06	22.09	23.00
	Subtest 4	22.04	21.97	22.05	23.00
HSUPA	Subtest 1	22.66	22.58	22.62	23.50
	Subtest 2	20.64	20.56	20.61	21.50
	Subtest 3	21.58	21.56	21.65	22.50
	Subtest 4	20.64	20.51	20.62	21.50
	Subtest 5	22.66	22.49	22.68	23.50
DC-HSDPA	Subtest 1	22.63	22.48	22.68	23.50
	Subtest 2	22.55	22.54	22.63	23.50
	Subtest 3	22.16	22.01	22.13	23.00
	Subtest 4	22.01	21.98	22.06	23.00
HSPA+	16QAM	21.18	21.00	21.09	22.00
WCDMA Band VI Hotspot on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	21.37	21.51	21.45	23.00
	12.2kbps AMR	21.31	21.48	21.41	23.00
HSDPA	Subtest 1	21.04	21.00	21.10	22.00
	Subtest 2	20.94	20.95	21.02	22.00
	Subtest 3	20.54	20.55	20.54	21.50
	Subtest 4	20.52	20.39	20.54	21.50
HSUPA	Subtest 1	21.07	21.00	21.07	22.00
	Subtest 2	19.04	18.99	19.05	20.00
	Subtest 3	20.07	20.00	20.13	21.00
	Subtest 4	19.14	18.96	19.12	20.00
	Subtest 5	21.09	20.98	21.15	22.00
DC-HSDPA	Subtest 1	21.06	20.92	21.12	22.00
	Subtest 2	20.96	20.97	21.05	22.00
	Subtest 3	20.58	20.42	20.58	21.50
	Subtest 4	20.46	20.40	20.46	21.50
HSPA+	16QAM	19.63	19.49	19.57	20.50

Table 21: Conducted Power of WCDMA

Note:

- 1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.



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8.1.4.3 Conducted Power of LTE

LTE Band 2 Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	22.19	22.12	22.13	24.00
		1	2	22.32	22.32	22.29	24.00
		1	5	22.16	22.28	22.28	24.00
		3	0	22.21	22.19	22.23	24.00
		3	2	22.27	22.19	22.21	24.00
		3	3	22.16	22.16	22.21	24.00
		6	0	21.34	21.27	21.30	23.00
	16QAM	1	0	21.46	21.55	21.78	23.00
		1	2	21.39	21.38	21.39	23.00
		1	5	21.73	21.31	21.33	23.00
		3	0	21.49	21.33	21.43	23.00
		3	2	21.28	21.36	21.32	23.00
		3	3	21.47	21.17	21.22	23.00
		6	0	20.45	20.39	20.32	22.00
	64QAM	1	0	20.46	20.58	20.82	22.00
		1	2	20.37	20.37	20.41	22.00
		1	5	20.71	20.28	20.30	22.00
		3	0	20.47	20.32	20.49	22.00
		3	2	20.30	20.41	20.28	22.00
		3	3	20.47	20.19	20.21	22.00
		6	0	19.49	19.41	19.35	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	22.22	22.27	22.37	24.00
		1	7	22.25	22.22	22.38	24.00
		1	14	22.22	22.20	22.10	24.00
		8	0	21.43	21.37	21.43	23.00
		8	4	21.42	21.38	21.44	23.00
		8	7	21.33	21.37	21.38	23.00
		15	0	21.43	21.33	21.38	23.00
	16QAM	1	0	21.49	21.43	21.56	23.00
		1	7	21.72	21.21	21.53	23.00
		1	14	21.50	21.38	21.55	23.00
		8	0	20.50	20.45	20.52	22.00
		8	4	20.45	20.49	20.52	22.00
		8	7	20.46	20.53	20.44	22.00
		15	0	20.34	20.45	20.38	22.00
	64QAM	1	0	20.46	20.45	20.56	22.00
		1	7	20.78	20.26	20.59	22.00
		1	14	20.49	20.36	20.59	22.00
		8	0	19.48	19.50	19.57	21.00
		8	4	19.41	19.55	19.55	21.00
		8	7	19.43	19.52	19.41	21.00
		15	0	19.36	19.47	19.43	21.00



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				18625	18900	19175	
5MHz	QPSK	1	0	22.25	22.04	22.12	24.00
		1	13	22.20	22.31	22.35	24.00
		1	24	22.21	22.27	22.20	24.00
		12	0	21.32	21.39	21.34	23.00
		12	6	21.44	21.40	21.42	23.00
		12	13	21.34	21.33	21.30	23.00
		25	0	21.35	21.33	21.32	23.00
	16QAM	1	0	21.51	21.49	21.29	23.00
		1	13	21.42	21.23	21.95	23.00
		1	24	21.09	21.29	21.11	23.00
		12	0	20.37	20.41	20.39	22.00
		12	6	20.42	20.29	20.32	22.00
		12	13	20.41	20.35	20.34	22.00
		25	0	20.45	20.46	20.33	22.00
	64QAM	1	0	20.47	20.48	20.28	22.00
		1	13	20.38	20.23	20.96	22.00
		1	24	20.13	20.34	20.14	22.00
		12	0	19.40	19.47	19.41	21.00
		12	6	19.38	19.35	19.38	21.00
		12	13	19.40	19.32	19.33	21.00
		25	0	19.48	19.44	19.39	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	22.12	22.10	22.19	24.00
		1	25	22.20	22.14	22.10	24.00
		1	49	22.13	22.07	22.27	24.00
		25	0	21.30	21.20	21.31	23.00
		25	13	21.43	21.37	21.36	23.00
		25	25	21.27	21.31	21.30	23.00
		50	0	21.33	21.22	21.34	23.00
	16QAM	1	0	21.41	21.43	21.21	23.00
		1	25	21.56	21.64	21.52	23.00
		1	49	21.49	21.33	21.47	23.00
		25	0	20.07	20.37	20.25	22.00
		25	13	20.36	20.33	20.37	22.00
		25	25	20.19	20.43	20.34	22.00
		50	0	20.32	20.12	20.29	22.00
	64QAM	1	0	20.38	20.47	20.19	22.00
		1	25	20.56	20.64	20.51	22.00
		1	49	20.49	20.37	20.52	22.00
		25	0	19.03	19.35	19.30	21.00
		25	13	19.37	19.30	19.37	21.00
		25	25	19.24	19.41	19.34	21.00
		50	0	19.36	19.14	19.32	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	22.21	22.39	22.32	24.00
		1	38	22.27	22.34	22.38	24.00
		1	74	22.34	22.39	22.39	24.00
		36	0	21.37	21.34	21.31	23.00
		36	18	21.44	21.43	21.60	23.00
		36	39	21.44	21.51	21.49	23.00
		75	0	21.46	21.38	21.47	23.00
	16QAM	1	0	21.73	21.52	21.67	23.00
		1	38	21.66	21.53	21.96	23.00
		1	74	21.63	21.71	21.35	23.00
		36	0	20.40	20.40	20.37	22.00
		36	18	20.40	20.36	20.54	22.00
		36	39	20.52	20.45	20.48	22.00
		75	0	20.52	20.45	20.45	22.00
	64QAM	1	0	20.77	20.58	20.66	22.00
		1	38	20.67	20.54	21.00	22.00
		1	74	20.64	20.68	20.33	22.00
		36	0	19.40	19.43	19.42	21.00
		36	18	19.45	19.34	19.53	21.00
		36	39	19.57	19.48	19.46	21.00
		75	0	19.48	19.44	19.47	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	22.37	22.45	22.27	24.00
		1	50	22.34	22.40	22.44	24.00
		1	99	22.43	22.35	22.33	24.00
		50	0	21.45	21.37	21.32	23.00
		50	25	21.50	21.45	21.40	23.00
		50	50	21.53	21.50	21.58	23.00
		100	0	21.39	21.41	21.39	23.00
	16QAM	1	0	21.86	21.98	21.33	23.00
		1	50	21.65	21.74	21.31	23.00
		1	99	21.72	21.33	21.36	23.00
		50	0	20.36	20.37	20.43	22.00
		50	25	20.53	20.44	20.49	22.00
		50	50	20.44	20.50	20.51	22.00
		100	0	20.43	20.39	20.37	22.00
	64QAM	1	0	20.88	21.02	20.38	22.00
		1	50	20.62	20.71	20.34	22.00
		1	99	20.71	20.30	20.40	22.00
		50	0	19.37	19.42	19.44	21.00
		50	25	19.52	19.46	19.50	21.00
		50	50	19.42	19.54	19.52	21.00
		100	0	19.49	19.43	19.43	21.00



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LTE Band 2 Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	19.13	19.03	19.19	21.00
		1	2	19.20	19.25	19.12	21.00
		1	5	19.09	19.17	19.08	21.00
		3	0	19.16	19.16	19.08	21.00
		3	2	19.30	19.39	19.09	21.00
		3	3	19.14	19.16	19.09	21.00
		6	0	19.16	19.18	19.19	21.00
	16QAM	1	0	19.61	19.36	19.35	21.00
		1	2	19.76	19.44	19.77	21.00
		1	5	19.49	19.94	19.04	21.00
		3	0	19.21	19.18	19.29	21.00
		3	2	19.19	19.20	19.27	21.00
		3	3	19.08	19.10	19.00	21.00
		6	0	19.19	19.42	19.42	21.00
	64QAM	1	0	19.49	19.55	19.77	21.00
		1	2	19.29	19.40	19.43	21.00
		1	5	19.76	19.30	19.25	21.00
		3	0	19.57	19.41	19.45	21.00
		3	2	19.37	19.39	19.29	21.00
		3	3	19.42	19.23	19.23	21.00
		6	0	19.44	19.34	19.25	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	19.23	19.18	19.19	21.00
		1	7	19.17	19.22	19.16	21.00
		1	14	19.03	19.06	19.10	21.00
		8	0	19.24	19.18	19.26	21.00
		8	4	19.23	19.21	19.29	21.00
		8	7	19.10	19.18	19.25	21.00
		15	0	19.19	19.29	19.30	21.00
	16QAM	1	0	19.27	19.17	19.44	21.00
		1	7	19.17	19.75	19.77	21.00
		1	14	19.63	19.85	19.10	21.00
		8	0	19.35	19.33	19.42	21.00
		8	4	19.46	19.26	19.29	21.00
		8	7	19.31	19.71	19.33	21.00
		15	0	19.29	19.35	19.13	21.00
	64QAM	1	0	19.42	19.52	19.54	21.00
		1	7	19.68	19.22	19.67	21.00
		1	14	19.45	19.28	19.67	21.00
		8	0	19.43	19.41	19.50	21.00
		8	4	19.33	19.49	19.49	21.00
		8	7	19.36	19.44	19.32	21.00
		15	0	19.31	19.41	19.37	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	19.10	19.10	19.12	21.00
		1	13	19.28	19.42	19.21	21.00
		1	24	19.26	19.16	19.01	21.00
		12	0	19.21	19.37	19.21	21.00
		12	6	19.46	19.24	19.25	21.00
		12	13	19.25	19.13	19.24	21.00
		25	0	19.25	19.27	19.25	21.00
	16QAM	1	0	19.61	19.64	19.63	21.00
		1	13	19.90	19.56	19.53	21.00
		1	24	19.36	19.79	19.28	21.00
		12	0	19.20	19.20	19.25	21.00
		12	6	19.25	19.37	19.22	21.00
		12	13	19.28	19.33	19.32	21.00
		25	0	19.27	19.26	19.29	21.00
	64QAM	1	0	19.41	19.54	19.26	21.00
		1	13	19.45	19.23	19.98	21.00
		1	24	19.08	19.32	19.22	21.00
		12	0	19.31	19.41	19.34	21.00
		12	6	19.32	19.25	19.30	21.00
		12	13	19.35	19.27	19.26	21.00
		25	0	19.39	19.34	19.34	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	19.09	19.11	19.26	21.00
		1	25	19.15	19.06	19.07	21.00
		1	49	19.09	19.08	19.22	21.00
		25	0	19.11	19.18	19.24	21.00
		25	13	19.37	19.21	19.29	21.00
		25	25	19.24	19.21	19.25	21.00
		50	0	19.27	19.22	19.19	21.00
	16QAM	1	0	19.49	19.14	19.87	21.00
		1	25	19.76	19.41	19.75	21.00
		1	49	19.32	19.36	19.74	21.00
		25	0	19.09	19.09	19.12	21.00
		25	13	19.38	19.18	19.22	21.00
		25	25	19.17	19.26	19.01	21.00
		50	0	19.30	19.13	19.14	21.00
	64QAM	1	0	19.35	19.40	19.23	21.00
		1	25	19.48	19.60	19.58	21.00
		1	49	19.39	19.29	19.58	21.00
		25	0	19.03	19.29	19.20	21.00
		25	13	19.27	19.20	19.31	21.00
		25	25	19.16	19.36	19.24	21.00
		50	0	19.31	19.06	19.23	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	19.29	19.50	19.35	21.00
		1	38	19.18	19.44	19.29	21.00
		1	74	19.21	19.33	19.33	21.00
		36	0	19.34	19.35	19.27	21.00
		36	18	19.44	19.41	19.52	21.00
		36	39	19.40	19.48	19.50	21.00
		75	0	19.47	19.44	19.44	21.00
	16QAM	1	0	19.57	19.50	19.46	21.00
		1	38	19.52	19.38	19.66	21.00
		1	74	19.51	19.59	19.49	21.00
		36	0	19.48	19.38	19.34	21.00
		36	18	19.51	19.40	19.46	21.00
		36	39	19.52	19.52	19.37	21.00
		75	0	19.40	19.10	19.54	21.00
	64QAM	1	0	19.77	19.66	19.72	21.00
		1	38	19.58	19.52	19.95	21.00
		1	74	19.67	19.74	19.29	21.00
		36	0	19.33	19.38	19.37	21.00
		36	18	19.37	19.28	19.46	21.00
		36	39	19.49	19.39	19.38	21.00
		75	0	19.38	19.39	19.38	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	19.32	19.66	19.30	21.00
		1	50	19.31	19.31	19.34	21.00
		1	99	19.33	19.24	19.24	21.00
		50	0	19.26	19.55	19.33	21.00
		50	25	19.45	19.32	19.41	21.00
		50	50	19.38	19.36	19.45	21.00
		100	0	19.36	19.34	19.31	21.00
	16QAM	1	0	19.50	19.45	19.39	21.00
		1	50	19.35	19.25	19.22	21.00
		1	99	19.36	19.25	19.33	21.00
		50	0	19.32	19.32	19.26	21.00
		50	25	19.43	19.46	19.37	21.00
		50	50	19.39	19.47	19.36	21.00
		100	0	19.50	19.27	19.34	21.00
	64QAM	1	0	19.83	20.11	19.32	21.00
		1	50	19.58	19.76	19.39	21.00
		1	99	19.61	19.38	19.32	21.00
		50	0	19.32	19.36	19.34	21.00
		50	25	19.43	19.36	19.42	21.00
		50	50	19.32	19.44	19.43	21.00
		100	0	19.44	19.37	19.37	21.00



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LTE Band 4 Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	22.05	22.14	22.13	24.00
		1	2	22.11	22.11	22.26	24.00
		1	5	22.14	22.12	22.10	24.00
		3	0	22.12	22.14	22.14	24.00
		3	2	22.07	22.22	22.23	24.00
		3	3	22.19	22.17	22.19	24.00
		6	0	21.22	21.23	21.27	23.00
	16QAM	1	0	21.45	21.52	21.90	23.00
		1	2	21.22	21.70	21.69	23.00
		1	5	21.16	21.51	21.50	23.00
		3	0	21.11	21.29	21.25	23.00
		3	2	21.26	21.15	21.15	23.00
		3	3	21.26	21.12	21.16	23.00
		6	0	20.21	20.48	20.27	22.00
	64QAM	1	0	20.49	20.57	20.92	22.00
		1	2	20.28	20.76	20.73	22.00
		1	5	20.16	20.53	20.53	22.00
		3	0	20.07	20.32	20.21	22.00
		3	2	20.23	20.16	20.11	22.00
		3	3	20.32	20.13	20.16	22.00
		6	0	19.25	19.51	19.27	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	22.04	22.18	22.32	24.00
		1	7	22.24	22.29	22.38	24.00
		1	14	22.19	22.09	22.22	24.00
		8	0	21.27	21.33	21.30	23.00
		8	4	21.29	21.35	21.35	23.00
		8	7	21.21	21.24	21.30	23.00
		15	0	21.28	21.26	21.27	23.00
	16QAM	1	0	21.19	21.58	21.46	23.00
		1	7	21.31	21.36	21.91	23.00
		1	14	21.58	21.49	21.69	23.00
		8	0	20.28	20.34	20.35	22.00
		8	4	20.48	20.42	20.29	22.00
		8	7	20.35	20.26	20.34	22.00
		15	0	20.40	20.43	20.21	22.00
	64QAM	1	0	20.23	20.54	20.50	22.00
		1	7	20.35	20.35	20.87	22.00
		1	14	20.55	20.51	20.70	22.00
		8	0	19.27	19.39	19.37	21.00
		8	4	19.48	19.47	19.25	21.00
		8	7	19.36	19.27	19.39	21.00
		15	0	19.43	19.43	19.22	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	22.02	22.22	22.24	24.00
		1	13	22.21	22.22	22.28	24.00
		1	24	22.14	22.28	22.06	24.00
		12	0	21.31	21.30	21.26	23.00
		12	6	21.29	21.32	21.30	23.00
		12	13	21.25	21.31	21.29	23.00
		25	0	21.24	21.27	21.29	23.00
	16QAM	1	0	21.07	21.23	21.59	23.00
		1	13	21.43	21.88	21.28	23.00
		1	24	21.39	21.18	21.29	23.00
		12	0	20.16	20.35	20.19	22.00
		12	6	20.33	20.44	20.26	22.00
		12	13	20.17	20.23	20.32	22.00
		25	0	20.31	20.20	20.20	22.00
	64QAM	1	0	20.09	20.20	20.58	22.00
		1	13	20.45	20.87	20.31	22.00
		1	24	20.43	20.18	20.25	22.00
		12	0	19.12	19.33	19.21	21.00
		12	6	19.36	19.40	19.31	21.00
		12	13	19.15	19.19	19.30	21.00
		25	0	19.32	19.17	19.24	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	22.07	22.04	22.09	24.00
		1	25	22.37	22.25	22.09	24.00
		1	49	22.04	22.12	22.02	24.00
		25	0	21.05	21.21	21.16	23.00
		25	13	21.33	21.31	21.17	23.00
		25	25	21.14	21.13	21.22	23.00
		50	0	21.23	21.20	21.11	23.00
	16QAM	1	0	21.11	21.89	21.13	23.00
		1	25	21.39	21.32	21.33	23.00
		1	49	21.50	21.08	21.37	23.00
		25	0	20.22	20.26	20.27	22.00
		25	13	20.34	20.32	20.17	22.00
		25	25	20.29	20.22	20.21	22.00
		50	0	20.19	20.22	20.19	22.00
	64QAM	1	0	20.95	20.94	20.19	22.00
		1	25	20.37	20.37	20.36	22.00
		1	49	20.51	20.53	20.38	22.00
		25	0	19.23	19.32	19.27	21.00
		25	13	19.36	19.33	19.22	21.00
		25	25	19.32	19.27	19.18	21.00
		50	0	19.21	19.20	19.21	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	22.12	22.15	22.19	24.00
		1	38	22.21	22.39	22.22	24.00
		1	74	22.27	22.31	22.31	24.00
		36	0	21.38	21.28	21.31	23.00
		36	18	21.47	21.50	21.41	23.00
		36	39	21.50	21.50	21.39	23.00
		75	0	21.32	21.42	21.27	23.00
	16QAM	1	0	21.25	21.06	21.28	23.00
		1	38	21.85	21.49	21.52	23.00
		1	74	21.74	21.55	21.45	23.00
		36	0	20.28	20.35	20.34	22.00
		36	18	20.48	20.54	20.39	22.00
		36	39	20.42	20.46	20.45	22.00
		75	0	20.44	20.44	20.38	22.00
	64QAM	1	0	20.22	20.09	20.27	22.00
		1	38	20.81	20.54	20.51	22.00
		1	74	20.77	20.58	20.41	22.00
		36	0	19.25	19.39	19.39	21.00
		36	18	19.45	19.53	19.39	21.00
		36	39	19.38	19.43	19.51	21.00
		75	0	19.42	19.42	19.36	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	22.13	22.16	22.06	24.00
		1	50	22.26	22.37	22.33	24.00
		1	99	22.05	22.24	22.13	24.00
		50	0	21.27	21.31	21.32	23.00
		50	25	21.41	21.49	21.50	23.00
		50	50	21.43	21.46	21.40	23.00
		100	0	21.32	21.39	21.47	23.00
	16QAM	1	0	21.71	21.13	21.62	23.00
		1	50	21.50	21.79	21.72	23.00
		1	99	21.14	21.44	21.37	23.00
		50	0	20.30	20.36	20.34	22.00
		50	25	20.60	20.53	20.52	22.00
		50	50	20.45	20.46	20.42	22.00
		100	0	20.33	20.44	20.41	22.00
	64QAM	1	0	20.75	20.17	20.62	22.00
		1	50	20.50	20.75	20.73	22.00
		1	99	20.14	20.40	20.40	22.00
		50	0	19.33	19.38	19.39	21.00
		50	25	19.58	19.54	19.53	21.00
		50	50	19.48	19.47	19.38	21.00
		100	0	19.39	19.49	19.43	21.00



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LTE Band 4 Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	21.04	21.04	21.04	23.00
		1	2	21.10	21.02	21.11	23.00
		1	5	21.00	21.09	21.06	23.00
		3	0	21.03	21.05	21.04	23.00
		3	2	21.04	21.09	21.12	23.00
		3	3	21.07	21.01	21.05	23.00
		6	0	21.07	21.08	21.19	23.00
	16QAM	1	0	21.37	21.02	21.45	23.00
		1	2	21.40	21.63	21.67	23.00
		1	5	21.12	21.61	21.12	23.00
		3	0	21.21	21.19	21.15	23.00
		3	2	21.16	21.24	21.18	23.00
		3	3	21.16	21.06	21.15	23.00
		6	0	20.31	20.14	20.30	22.00
	64QAM	1	0	20.42	20.54	20.88	22.00
		1	2	20.21	20.71	20.67	22.00
		1	5	20.13	20.45	20.45	22.00
		3	0	20.03	20.28	20.14	22.00
		3	2	20.20	20.08	20.04	22.00
		3	3	20.24	20.05	20.12	22.00
		6	0	19.21	19.47	19.23	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	21.09	21.12	21.02	23.00
		1	7	21.15	21.10	21.15	23.00
		1	14	21.09	21.09	21.09	23.00
		8	0	21.22	21.17	21.21	23.00
		8	4	21.19	21.17	21.26	23.00
		8	7	21.14	21.20	21.23	23.00
		15	0	21.19	21.23	21.12	23.00
	16QAM	1	0	21.29	21.72	21.33	23.00
		1	7	21.03	21.39	21.67	23.00
		1	14	21.47	21.64	21.29	23.00
		8	0	20.17	20.34	20.26	22.00
		8	4	20.26	20.21	20.28	22.00
		8	7	20.20	20.24	20.20	22.00
		15	0	20.21	20.12	20.26	22.00
	64QAM	1	0	20.15	20.47	20.47	22.00
		1	7	20.30	20.31	20.82	22.00
		1	14	20.52	20.45	20.66	22.00
		8	0	19.23	19.36	19.34	21.00
		8	4	19.41	19.43	19.19	21.00
		8	7	19.32	19.21	19.31	21.00
		15	0	19.35	19.37	19.14	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	21.03	21.13	21.23	23.00
		1	13	21.19	21.27	21.18	23.00
		1	24	21.07	21.23	21.09	23.00
		12	0	21.27	21.31	21.28	23.00
		12	6	21.25	21.27	21.29	23.00
		12	13	21.22	21.26	21.26	23.00
		25	0	21.27	21.18	21.16	23.00
	16QAM	1	0	21.21	21.68	21.09	23.00
		1	13	21.44	21.61	21.48	23.00
		1	24	21.33	21.03	21.28	23.00
		12	0	20.35	20.35	20.29	22.00
		12	6	20.26	20.27	20.23	22.00
		12	13	20.26	20.26	20.16	22.00
		25	0	20.24	20.30	20.22	22.00
	64QAM	1	0	20.05	20.13	20.54	22.00
		1	13	20.41	20.79	20.27	22.00
		1	24	20.37	20.14	20.22	22.00
		12	0	19.05	19.29	19.14	21.00
		12	6	19.28	19.36	19.24	21.00
		12	13	19.07	19.13	19.27	21.00
		25	0	19.29	19.13	19.18	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	21.08	21.03	21.01	23.00
		1	25	21.02	21.21	21.20	23.00
		1	49	21.08	21.06	21.02	23.00
		25	0	21.11	21.21	21.21	23.00
		25	13	21.26	21.21	21.22	23.00
		25	25	21.15	21.23	21.10	23.00
		50	0	21.16	21.13	21.11	23.00
	16QAM	1	0	21.40	21.19	21.54	23.00
		1	25	21.40	21.33	21.69	23.00
		1	49	21.13	21.37	21.14	23.00
		25	0	20.08	20.05	20.22	22.00
		25	13	20.26	20.40	20.31	22.00
		25	25	20.15	20.00	20.22	22.00
		50	0	20.11	20.19	20.26	22.00
	64QAM	1	0	20.90	20.91	20.13	22.00
		1	25	20.29	20.33	20.33	22.00
		1	49	20.44	20.49	20.30	22.00
		25	0	19.15	19.27	19.20	21.00
		25	13	19.33	19.27	19.17	21.00
		25	25	19.24	19.21	19.11	21.00
		50	0	19.15	19.14	19.13	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	21.12	21.10	21.28	23.00
		1	38	21.31	21.29	21.34	23.00
		1	74	21.19	21.10	21.25	23.00
		36	0	21.33	21.37	21.30	23.00
		36	18	21.45	21.46	21.37	23.00
		36	39	21.38	21.40	21.49	23.00
		75	0	21.38	21.44	21.37	23.00
	16QAM	1	0	21.39	21.58	21.44	23.00
		1	38	21.76	21.84	21.54	23.00
		1	74	21.59	21.78	21.55	23.00
		36	0	20.32	20.27	20.34	22.00
		36	18	20.42	20.52	20.44	22.00
		36	39	20.45	20.58	20.48	22.00
		75	0	20.42	20.40	20.38	22.00
	64QAM	1	0	20.14	20.04	20.20	22.00
		1	38	20.78	20.51	20.44	22.00
		1	74	20.72	20.51	20.33	22.00
		36	0	19.18	19.33	19.32	21.00
		36	18	19.42	19.47	19.36	21.00
		36	39	19.34	19.38	19.47	21.00
		75	0	19.37	19.37	19.33	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	21.12	21.23	21.48	23.00
		1	50	21.18	21.38	21.31	23.00
		1	99	21.03	21.17	21.01	23.00
		50	0	21.21	21.25	21.31	23.00
		50	25	21.43	21.42	21.47	23.00
		50	50	21.34	21.27	21.27	23.00
		100	0	21.30	21.35	21.30	23.00
	16QAM	1	0	21.24	21.22	21.37	23.00
		1	50	21.29	21.35	21.28	23.00
		1	99	21.36	21.22	21.25	23.00
		50	0	20.29	20.23	20.25	22.00
		50	25	20.47	20.51	20.47	22.00
		50	50	20.29	20.34	20.47	22.00
		100	0	20.27	20.33	20.40	22.00
	64QAM	1	0	20.70	20.12	20.59	22.00
		1	50	20.46	20.71	20.68	22.00
		1	99	20.06	20.34	20.35	22.00
		50	0	19.27	19.33	19.32	21.00
		50	25	19.54	19.51	19.49	21.00
		50	50	19.41	19.39	19.34	21.00
		100	0	19.32	19.46	19.39	21.00



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LTE Band 7 Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	22.82	22.97	22.96	24.00
		1	13	23.07	23.02	23.05	24.00
		1	24	22.77	22.87	22.87	24.00
		12	0	21.99	21.98	22.06	23.00
		12	6	22.04	22.01	22.06	23.00
		12	13	21.83	21.96	21.94	23.00
		25	0	21.98	21.92	21.92	23.00
	16QAM	1	0	22.56	21.99	22.54	23.00
		1	13	22.35	22.20	22.14	23.00
		1	24	22.30	21.99	21.99	23.00
		12	0	20.98	20.94	20.98	22.00
		12	6	21.01	21.02	20.95	22.00
		12	13	20.87	20.98	21.03	22.00
		25	0	20.98	20.87	21.02	22.00
	64QAM	1	0	21.58	21.00	21.59	22.00
		1	13	21.39	21.25	21.19	22.00
		1	24	21.33	20.95	21.03	22.00
		12	0	20.00	19.93	20.01	21.00
		12	6	20.07	20.03	19.97	21.00
		12	13	19.90	19.99	20.03	21.00
		25	0	19.96	19.86	20.04	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	22.83	22.92	22.77	24.00
		1	25	22.82	22.81	22.85	24.00
		1	49	22.87	22.82	23.08	24.00
		25	0	21.88	22.05	21.95	23.00
		25	13	21.94	21.98	21.97	23.00
		25	25	22.00	21.98	21.99	23.00
		50	0	21.85	21.81	21.84	23.00
	16QAM	1	0	22.53	21.97	22.43	23.00
		1	25	22.31	22.04	22.23	23.00
		1	49	22.19	22.45	22.19	23.00
		25	0	21.16	20.96	20.87	22.00
		25	13	20.90	20.86	21.03	22.00
		25	25	20.83	20.92	21.01	22.00
		50	0	20.74	20.93	20.88	22.00
	64QAM	1	0	21.53	21.02	21.43	22.00
		1	25	21.34	21.09	21.20	22.00
		1	49	21.25	21.46	21.25	22.00
		25	0	20.15	19.97	19.89	21.00
		25	13	19.91	19.86	20.02	21.00
		25	25	19.88	19.88	19.99	21.00
		50	0	19.70	19.99	19.87	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	22.99	23.09	23.12	24.00
		1	38	22.96	22.94	22.96	24.00
		1	74	23.15	23.08	23.07	24.00
		36	0	22.11	22.08	22.10	23.00
		36	18	22.18	22.15	22.17	23.00
		36	39	22.12	22.13	22.18	23.00
		75	0	22.11	22.07	22.13	23.00
	16QAM	1	0	22.49	22.21	22.59	23.00
		1	38	22.71	22.32	22.18	23.00
		1	74	22.22	22.56	22.08	23.00
		36	0	21.05	21.19	21.29	22.00
		36	18	21.18	21.11	21.21	22.00
		36	39	21.19	21.02	21.17	22.00
		75	0	21.17	20.96	21.07	22.00
	64QAM	1	0	21.49	21.20	21.56	22.00
		1	38	21.71	21.32	21.14	22.00
		1	74	21.26	21.53	21.06	22.00
		36	0	20.07	20.20	20.30	21.00
		36	18	20.24	20.17	20.19	21.00
		36	39	20.20	20.06	20.17	21.00
		75	0	20.23	20.02	20.11	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	23.05	22.98	23.16	24.00
		1	50	22.95	23.05	23.02	24.00
		1	99	23.12	22.99	22.89	24.00
		50	0	22.13	22.12	22.20	23.00
		50	25	22.25	22.09	22.24	23.00
		50	50	22.13	22.09	22.23	23.00
		100	0	22.14	22.00	22.21	23.00
	16QAM	1	0	22.38	22.35	22.53	23.00
		1	50	22.83	22.07	22.28	23.00
		1	99	22.55	22.48	22.16	23.00
		50	0	21.21	21.17	21.23	22.00
		50	25	21.18	21.20	21.24	22.00
		50	50	21.18	21.12	21.25	22.00
		100	0	21.05	21.13	21.14	22.00
	64QAM	1	0	21.38	21.35	21.58	22.00
		1	50	21.80	21.13	21.29	22.00
		1	99	21.57	21.47	21.15	22.00
		50	0	20.18	20.23	20.29	21.00
		50	25	20.24	20.18	20.23	21.00
		50	50	20.16	20.17	20.26	21.00
		100	0	20.05	20.13	20.11	21.00



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LTE Band 7 Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	18.26	18.14	18.32	20.00
		1	13	18.26	18.36	18.47	20.00
		1	24	18.24	18.26	18.31	20.00
		12	0	18.26	18.29	18.32	20.00
		12	6	18.32	18.34	18.33	20.00
		12	13	18.28	18.30	18.34	20.00
		25	0	18.21	18.29	18.34	20.00
	16QAM	1	0	18.11	18.42	18.45	20.00
		1	13	18.40	18.46	18.50	20.00
		1	24	18.45	18.38	18.47	20.00
		12	0	18.30	18.25	18.32	20.00
		12	6	18.32	18.42	18.35	20.00
		12	13	18.25	18.33	18.40	20.00
		25	0	18.28	18.18	18.37	20.00
	64QAM	1	0	18.03	18.35	18.45	20.00
		1	13	18.32	18.49	18.47	20.00
		1	24	18.37	18.28	18.41	20.00
		12	0	18.20	18.15	18.25	20.00
		12	6	18.23	18.37	18.25	20.00
		12	13	18.18	18.25	18.34	20.00
		25	0	18.18	18.13	18.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	18.20	18.16	18.20	20.00
		1	25	18.11	18.26	18.15	20.00
		1	49	18.49	18.23	18.22	20.00
		25	0	18.22	18.37	18.33	20.00
		25	13	18.31	18.29	18.46	20.00
		25	25	18.29	18.35	18.40	20.00
		50	0	18.20	18.22	18.28	20.00
	16QAM	1	0	18.38	18.37	18.41	20.00
		1	25	18.55	18.54	18.42	20.00
		1	49	18.45	18.49	18.38	20.00
		25	0	18.07	18.25	18.32	20.00
		25	13	18.21	18.38	18.42	20.00
		25	25	18.17	18.29	18.41	20.00
		50	0	18.26	18.28	18.20	20.00
	64QAM	1	0	18.28	18.29	18.36	20.00
		1	25	18.57	18.46	18.56	20.00
		1	49	18.56	18.44	18.33	20.00
		25	0	18.07	18.16	18.24	20.00
		25	13	18.11	18.33	18.32	20.00
		25	25	18.08	18.23	18.31	20.00
		50	0	18.17	18.18	18.13	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	18.48	18.38	18.35	20.00
		1	38	18.45	18.47	18.49	20.00
		1	74	18.49	18.53	18.55	20.00
		36	0	18.53	18.45	18.46	20.00
		36	18	18.58	18.48	18.55	20.00
		36	39	18.55	18.54	18.36	20.00
		75	0	18.49	18.54	18.43	20.00
	16QAM	1	0	18.55	18.47	18.54	20.00
		1	38	18.54	18.48	18.57	20.00
		1	74	18.54	18.51	18.46	20.00
		36	0	18.50	18.48	18.53	20.00
		36	18	18.49	18.54	18.50	20.00
		36	39	18.54	18.44	18.58	20.00
		75	0	18.50	18.45	18.53	20.00
	64QAM	1	0	18.49	18.53	18.48	20.00
		1	38	18.49	18.58	18.44	20.00
		1	74	18.46	18.55	18.58	20.00
		36	0	18.44	18.38	18.46	20.00
		36	18	18.43	18.46	18.42	20.00
		36	39	18.49	18.36	18.53	20.00
		75	0	18.51	18.39	18.49	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	18.29	18.45	18.35	20.00
		1	50	18.44	18.36	18.23	20.00
		1	99	18.59	18.42	18.36	20.00
		50	0	18.35	18.40	18.37	20.00
		50	25	18.49	18.44	18.56	20.00
		50	50	18.57	18.49	18.55	20.00
		100	0	18.42	18.41	18.51	20.00
	16QAM	1	0	18.32	18.24	18.24	20.00
		1	50	18.56	18.38	18.39	20.00
		1	99	18.32	18.23	18.47	20.00
		50	0	18.44	18.44	18.46	20.00
		50	25	18.56	18.25	18.21	20.00
		50	50	18.58	18.21	18.26	20.00
		100	0	18.37	18.30	18.48	20.00
	64QAM	1	0	18.23	18.14	18.15	20.00
		1	50	18.47	18.31	18.31	20.00
		1	99	18.26	18.18	18.37	20.00
		50	0	18.34	18.39	18.41	20.00
		50	25	18.49	18.19	18.12	20.00
		50	50	18.51	18.14	18.20	20.00
		100	0	18.28	18.25	18.39	20.00



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LTE Band 38 Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	20.16	20.31	20.25	22.00
		1	13	20.42	20.35	20.42	22.00
		1	24	20.28	20.26	20.32	22.00
		12	0	20.41	20.40	20.37	22.00
		12	6	20.43	20.43	20.41	22.00
		12	13	20.33	20.35	20.46	22.00
		25	0	20.37	20.39	20.44	22.00
	16QAM	1	0	20.27	20.33	20.34	22.00
		1	13	20.51	20.44	20.45	22.00
		1	24	20.39	20.42	20.39	22.00
		12	0	20.37	20.40	20.31	22.00
		12	6	20.43	20.44	20.35	22.00
		12	13	20.38	20.36	20.31	22.00
		25	0	20.38	20.42	20.45	22.00
	64QAM	1	0	20.48	20.61	20.38	22.00
		1	13	20.54	20.50	20.61	22.00
		1	24	20.42	20.53	20.46	22.00
		12	0	19.93	20.01	19.95	21.00
		12	6	19.85	19.95	20.00	21.00
		12	13	19.93	19.97	19.87	21.00
		25	0	20.05	19.91	20.05	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	20.12	20.26	20.20	22.00
		1	25	20.39	20.28	20.35	22.00
		1	49	20.21	20.22	20.25	22.00
		25	0	20.33	20.32	20.31	22.00
		25	13	20.36	20.38	20.37	22.00
		25	25	20.25	20.29	20.43	22.00
		50	0	20.33	20.35	20.37	22.00
	16QAM	1	0	20.19	20.29	20.31	22.00
		1	25	20.44	20.36	20.38	22.00
		1	49	20.31	20.36	20.35	22.00
		25	0	20.33	20.36	20.26	22.00
		25	13	20.40	20.39	20.28	22.00
		25	25	20.31	20.33	20.24	22.00
		50	0	20.34	20.35	20.38	22.00
	64QAM	1	0	20.20	20.54	20.65	22.00
		1	25	20.50	20.56	20.49	22.00
		1	49	20.11	20.39	20.41	22.00
		25	0	19.80	19.85	19.85	21.00
		25	13	19.93	19.90	19.96	21.00
		25	25	19.93	19.81	19.90	21.00
		50	0	19.90	19.92	20.02	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	20.51	20.55	20.56	22.00
		1	38	20.52	20.54	20.52	22.00
		1	74	20.46	20.60	20.59	22.00
		36	0	20.51	20.53	20.50	22.00
		36	18	20.62	20.63	20.53	22.00
		36	39	20.52	20.54	20.61	22.00
		75	0	20.57	20.54	20.53	22.00
	16QAM	1	0	20.65	20.63	20.63	22.00
		1	38	20.63	20.65	20.61	22.00
		1	74	20.62	20.64	20.63	22.00
		36	0	20.53	20.53	20.47	22.00
		36	18	20.62	20.64	20.47	22.00
		36	39	20.61	20.56	20.56	22.00
		75	0	20.63	20.62	20.57	22.00
	64QAM	1	0	20.64	20.65	20.63	22.00
		1	38	20.64	20.61	20.65	22.00
		1	74	20.58	20.59	20.65	22.00
		36	0	19.99	20.08	20.01	21.00
		36	18	20.18	20.13	20.12	21.00
		36	39	20.04	20.14	20.08	21.00
		75	0	20.14	20.20	20.02	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	20.66	20.46	20.49	22.00
		1	50	20.43	20.48	20.55	22.00
		1	99	20.53	20.55	20.49	22.00
		50	0	20.46	20.43	20.41	22.00
		50	25	20.55	20.62	20.58	22.00
		50	50	20.50	20.53	20.44	22.00
		100	0	20.52	20.49	20.33	22.00
	16QAM	1	0	20.43	20.49	20.64	22.00
		1	50	20.27	20.37	20.39	22.00
		1	99	20.32	20.65	20.45	22.00
		50	0	20.49	20.49	20.41	22.00
		50	25	20.54	20.64	20.60	22.00
		50	50	20.61	20.53	20.53	22.00
		100	0	20.43	20.53	20.52	22.00
	64QAM	1	0	20.59	20.58	20.62	22.00
		1	50	20.58	20.56	20.59	22.00
		1	99	20.63	20.57	20.55	22.00
		50	0	20.07	20.06	20.13	21.00
		50	25	20.24	20.25	20.23	21.00
		50	50	20.11	20.09	20.20	21.00
		100	0	20.05	20.20	20.11	21.00



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LTE Band 41 Hotspot off				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	22.30	22.34	22.34	22.27	22.31	24.00
		1	13	22.38	22.35	22.36	22.38	22.40	24.00
		1	24	22.25	22.28	22.27	22.24	22.26	24.00
		12	0	21.40	21.46	21.37	21.36	21.39	23.00
		12	6	21.42	21.45	21.41	21.40	21.42	23.00
		12	13	21.38	21.44	21.43	21.42	21.40	23.00
		25	0	21.46	21.47	21.35	21.34	21.35	23.00
	16QAM	1	0	21.54	21.44	21.37	21.41	21.57	23.00
		1	13	21.52	21.46	21.55	21.48	21.55	23.00
		1	24	21.57	21.52	21.57	21.42	21.56	23.00
		12	0	20.40	20.41	20.37	20.32	20.39	22.00
		12	6	20.42	20.44	20.37	20.32	20.39	22.00
		12	13	20.38	20.42	20.36	20.40	20.33	22.00
		25	0	20.47	20.43	20.36	20.39	20.44	22.00
	64QAM	1	0	20.56	20.45	20.38	20.38	20.59	22.00
		1	13	20.50	20.48	20.51	20.46	20.56	22.00
		1	24	20.60	20.52	20.58	20.39	20.52	22.00
		12	0	19.41	19.39	19.36	19.30	19.40	21.00
		12	6	19.43	19.50	19.39	19.32	19.37	21.00
		12	13	19.41	19.43	19.35	19.40	19.30	21.00
		25	0	19.49	19.45	19.37	19.44	19.45	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	22.38	22.18	22.00	22.12	22.19	24.00
		1	25	22.16	22.31	22.24	22.30	22.29	24.00
		1	49	22.37	22.08	22.06	22.11	22.13	24.00
		25	0	21.43	21.25	21.29	21.28	21.26	23.00
		25	13	21.49	21.56	21.35	21.49	21.35	23.00
		25	25	21.34	21.31	21.39	21.28	21.36	23.00
		50	0	21.36	21.34	21.37	21.36	21.25	23.00
	16QAM	1	0	21.44	21.25	21.30	21.24	21.26	23.00
		1	25	21.46	21.48	21.37	21.53	21.51	23.00
		1	49	21.41	21.18	21.14	21.08	21.18	23.00
		25	0	20.41	20.24	20.33	20.24	20.37	22.00
		25	13	20.42	20.39	20.38	20.42	20.28	22.00
		25	25	20.32	20.30	20.29	20.32	20.30	22.00
		50	0	20.41	20.34	20.31	20.38	20.22	22.00
	64QAM	1	0	20.40	20.29	20.30	20.23	20.28	22.00
		1	25	20.48	20.45	20.39	20.59	20.52	22.00
		1	49	20.37	20.16	20.19	20.04	20.17	22.00
		25	0	19.43	19.23	19.35	19.24	19.39	21.00
		25	13	19.47	19.40	19.40	19.47	19.31	21.00
		25	25	19.32	19.28	19.25	19.33	19.27	21.00
		50	0	19.46	19.35	19.27	19.44	19.26	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	22.59	22.35	22.31	22.48	22.26	24.00
		1	38	22.50	22.55	22.52	22.47	22.57	24.00
		1	74	22.45	22.22	22.39	22.25	22.49	24.00
		36	0	21.59	21.44	21.50	21.51	21.46	23.00
		36	18	21.66	21.57	21.55	21.55	21.64	23.00
		36	39	21.55	21.45	21.56	21.54	21.52	23.00
		75	0	21.55	21.58	21.48	21.45	21.51	23.00
	16QAM	1	0	21.64	21.46	21.43	21.65	21.46	23.00
		1	38	21.61	21.59	21.74	21.64	21.58	23.00
		1	74	21.66	21.40	21.45	21.47	21.65	23.00
		36	0	20.68	20.53	20.50	20.47	20.51	22.00
		36	18	20.56	20.51	20.60	20.51	20.54	22.00
		36	39	20.50	20.54	20.56	20.49	20.49	22.00
		75	0	20.60	20.54	20.53	20.44	20.43	22.00
	64QAM	1	0	20.69	20.42	20.41	20.66	20.51	22.00
		1	38	20.62	20.62	20.77	20.60	20.61	22.00
		1	74	20.66	20.38	20.50	20.51	20.69	22.00
		36	0	19.70	19.59	19.49	19.46	19.56	21.00
		36	18	19.53	19.48	19.66	19.50	19.59	21.00
		36	39	19.52	19.50	19.60	19.46	19.51	21.00
		75	0	19.56	19.54	19.59	19.49	19.40	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	22.64	22.62	22.26	22.45	22.23	24.00
		1	50	22.51	22.57	22.54	22.48	22.51	24.00
		1	99	22.54	22.51	22.27	22.07	22.38	24.00
		50	0	21.50	21.50	21.56	21.48	21.39	23.00
		50	25	21.68	21.57	21.58	21.47	21.58	23.00
		50	50	21.60	21.58	21.61	21.42	21.62	23.00
		100	0	21.56	21.46	21.48	21.39	21.54	23.00
	16QAM	1	0	21.63	21.67	21.33	21.53	21.33	23.00
		1	50	21.67	21.60	21.66	21.65	21.63	23.00
		1	99	21.60	21.47	21.35	21.10	21.41	23.00
		50	0	20.63	20.54	20.55	20.60	20.50	22.00
		50	25	20.62	20.61	20.69	20.62	20.71	22.00
		50	50	20.67	20.58	20.61	20.44	20.62	22.00
		100	0	20.56	20.51	20.51	20.56	20.62	22.00
	64QAM	1	0	20.62	20.66	20.33	20.50	20.32	22.00
		1	50	20.69	20.65	20.68	20.71	20.61	22.00
		1	99	20.56	20.44	20.38	20.11	20.37	22.00
		50	0	19.69	19.57	19.52	19.61	19.56	21.00
		50	25	19.66	19.57	19.74	19.68	19.72	21.00
		50	50	19.65	19.55	19.62	19.44	19.67	21.00
		100	0	19.61	19.57	19.57	19.52	19.59	21.00



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LTE Band 41 Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	19.70	19.69	19.70	19.64	19.74	21.50
		1	13	19.81	19.90	19.85	19.89	19.72	21.50
		1	24	19.76	19.72	19.74	19.68	19.64	21.50
		12	0	19.92	19.89	19.84	19.89	19.79	21.50
		12	6	19.88	19.92	19.89	19.85	19.80	21.50
		12	13	19.88	19.87	19.90	19.94	19.79	21.50
		25	0	19.86	19.85	19.87	19.81	19.79	21.50
	16QAM	1	0	20.01	19.84	19.86	19.94	19.96	21.50
		1	13	19.92	20.03	19.95	19.94	19.85	21.50
		1	24	19.90	19.96	19.91	19.91	19.77	21.50
		12	0	19.77	19.94	19.84	19.85	19.91	21.50
		12	6	19.84	19.92	19.88	19.86	19.86	21.50
		12	13	19.82	19.92	19.89	19.83	19.76	21.50
		25	0	19.93	19.97	19.88	19.85	19.80	21.50
	64QAM	1	0	19.95	19.85	19.83	19.86	20.08	21.50
		1	13	19.90	19.97	19.92	19.91	19.99	21.50
		1	24	20.05	19.99	20.08	19.80	19.97	21.50
		12	0	19.35	19.31	19.30	19.24	19.32	21.00
		12	6	19.35	19.43	19.33	19.25	19.29	21.00
		12	13	19.35	19.36	19.27	19.32	19.24	21.00
		25	0	19.44	19.37	19.31	19.37	19.40	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	19.63	19.63	19.65	19.56	19.69	21.50
		1	25	19.75	19.85	19.77	19.82	19.65	21.50
		1	49	19.69	19.65	19.69	19.62	19.59	21.50
		25	0	19.84	19.81	19.77	19.83	19.72	21.50
		25	13	19.81	19.86	19.82	19.80	19.74	21.50
		25	25	19.82	19.82	19.82	19.87	19.73	21.50
		50	0	19.78	19.80	19.81	19.75	19.74	21.50
	16QAM	1	0	19.95	19.78	19.78	19.88	19.90	21.50
		1	25	19.84	19.98	19.87	19.89	19.80	21.50
		1	49	19.84	19.91	19.83	19.84	19.72	21.50
		25	0	19.72	19.88	19.78	19.77	19.83	21.50
		25	13	19.78	19.86	19.83	19.78	19.81	21.50
		25	25	19.75	19.85	19.83	19.78	19.70	21.50
		50	0	19.86	19.91	19.83	19.79	19.75	21.50
	64QAM	1	0	19.80	19.78	19.78	19.63	19.70	21.50
		1	25	19.95	19.93	19.89	20.04	20.02	21.50
		1	49	19.86	19.63	19.65	19.51	19.59	21.50
		25	0	19.36	19.16	19.29	19.16	19.34	21.00
		25	13	19.40	19.32	19.32	19.39	19.24	21.00
		25	25	19.26	19.22	19.18	19.25	19.21	21.00
		50	0	19.40	19.27	19.22	19.38	19.18	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	19.97	19.78	19.79	19.91	19.70	21.50
		1	38	19.98	19.99	20.06	19.98	19.99	21.50
		1	74	20.04	19.80	19.88	19.82	19.84	21.50
		36	0	20.08	19.93	19.96	19.96	19.95	21.50
		36	18	20.08	20.05	20.04	20.03	20.04	21.50
		36	39	20.01	19.97	20.05	20.03	20.04	21.50
		75	0	20.04	20.06	19.95	20.00	19.87	21.50
	16QAM	1	0	20.11	19.94	19.95	20.14	19.74	21.50
		1	38	20.08	20.10	20.13	20.08	19.96	21.50
		1	74	20.13	19.94	20.05	19.91	20.01	21.50
		36	0	20.05	19.99	19.86	20.02	19.92	21.50
		36	18	20.11	20.08	19.90	20.08	20.00	21.50
		36	39	20.05	19.95	20.06	20.04	20.00	21.50
		75	0	20.08	20.03	20.01	20.05	19.99	21.50
	64QAM	1	0	20.12	19.86	19.91	20.12	19.97	21.50
		1	38	20.04	20.07	20.12	20.07	20.01	21.50
		1	74	20.10	19.87	19.97	20.01	20.13	21.50
		36	0	19.64	19.54	19.41	19.40	19.49	21.00
		36	18	19.48	19.42	19.59	19.44	19.52	21.00
		36	39	19.44	19.42	19.52	19.40	19.44	21.00
		75	0	19.51	19.46	19.53	19.42	19.34	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	20.15	19.94	19.60	19.70	19.53	21.50
		1	50	19.81	19.94	19.87	19.93	19.96	21.50
		1	99	20.01	20.00	19.65	19.55	19.78	21.50
		50	0	19.91	20.01	19.84	19.90	19.78	21.50
		50	25	20.03	20.08	20.06	19.99	20.06	21.50
		50	50	20.07	20.01	20.04	19.93	20.03	21.50
		100	0	20.12	20.00	19.95	19.87	19.95	21.50
	16QAM	1	0	20.16	20.09	19.78	20.02	19.62	21.50
		1	50	20.11	20.10	20.03	20.10	20.03	21.50
		1	99	20.08	20.05	19.79	19.72	19.91	21.50
		50	0	20.10	20.11	20.00	20.09	19.89	21.50
		50	25	20.08	20.03	19.97	20.08	20.12	21.50
		50	50	20.07	20.09	20.04	19.95	20.00	21.50
		100	0	19.97	19.91	19.91	19.94	20.00	21.50
	64QAM	1	0	20.05	20.15	19.81	19.93	19.74	21.50
		1	50	20.10	20.09	20.09	20.15	20.11	21.50
		1	99	20.01	19.92	19.81	19.58	19.86	21.50
		50	0	19.62	19.51	19.47	19.55	19.50	21.00
		50	25	19.58	19.51	19.67	19.62	19.66	21.00
		50	50	19.58	19.50	19.54	19.36	19.61	21.00
		100	0	19.55	19.52	19.51	19.45	19.54	21.00

Table 22: Conducted Power of LTE



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8.1.5 Conducted Power of Uplink & Downlink LTE CA

8.1.5.1 Conducted Power of uplink LTE CA

• Uplink LTE CA Conducted Power of Ant5

Combination	Modulation	PCC						SCC					Receiver off/Hotspot off		Receiver on/Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA 7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	20.50	21.00	14.19	14.50
CA 7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	20.46	21.00	14.15	14.50
CA 7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	20.41	21.00	14.13	14.50
CA 7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	20.53	21.00	14.16	14.50
Combination	Modulation	PCC						SCC					Receiver off/Hotspot off		Receiver on/Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA 38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	22.51	23.00	17.10	17.50
CA 38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	22.35	23.00	17.05	17.50
CA 38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	22.44	23.00	17.08	17.50
CA 38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	22.48	23.00	17.11	17.50
Combination	Modulation	PCC						SCC					Full power		Receiver on/Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	tune-up(dBm)	Power	tune-up(dBm)
CA 41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	22.35	23.50	15.50	16.50
CA 41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	22.43	23.50	15.55	16.50
CA 41C	QPSK	41	20	40185	1	0	40185	41	20	39987	1	99	22.50	23.50	15.61	16.50
CA 41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	22.29	23.50	15.48	16.50
CA 41C	QPSK	41	20	40620	1	0	40620	41	20	40422	1	99	22.25	23.50	15.31	16.50
CA 41C	QPSK	41	20	41055	1	99	41055	41	20	41253	1	0	22.34	23.50	15.40	16.50
CA 41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	22.18	23.50	15.33	16.50
CA 41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	22.51	23.50	15.66	16.50

• Uplink LTE CA Conducted Power of Ant10

Combination	Modulation	PCC						SCC					Hotspot off		Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA 7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	23.10	24.00	19.59	20.00
CA 7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	23.07	24.00	19.51	20.00
CA 7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	23.09	24.00	19.40	20.00
CA 7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	23.12	24.00	19.55	20.00
Combination	Modulation	PCC						SCC					Hotspot off		Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA 38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	23.42	24.00	21.74	22.00
CA 38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	23.41	24.00	21.38	22.00
CA 38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	23.29	24.00	21.53	22.00
CA 38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	23.40	24.00	21.67	22.00
Combination	Modulation	PCC						SCC					Full power		Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	tune-up(dBm)	Power	tune-up(dBm)
CA 41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	22.52	24.00	19.90	21.50
CA 41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	22.49	24.00	19.93	21.50
CA 41C	QPSK	41	20	40185	1	0	40185	41	20	39987	1	99	22.43	24.00	19.88	21.50
CA 41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	22.50	24.00	19.78	21.50
CA 41C	QPSK	41	20	40620	1	0	40620	41	20	40422	1	99	22.46	24.00	19.80	21.50
CA 41C	QPSK	41	20	41055	1	99	41055	41	20	41253	1	0	22.37	24.00	19.81	21.50
CA 41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	22.29	24.00	19.70	21.50
CA 41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	22.46	24.00	19.85	21.50



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8.1.5.2 Conducted Power of Downlink LTE CA

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

• Downlink LTE CA Conducted Power of Ant1 & Ant10

Hotspot off														
DL LTE CA Class	PCC							SCC1				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2560	21350	1	0	Band 7	20M	3152	2660.2	23.11	23.16	24.00
CA_38C	Band 38	20M	QPSK	2580	37850	1	0	Band 38	20M	2599.8	38048	23.15	23.21	24.00
CA_41C	Band 41	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	22.58	22.64	24.00
Hotspot on														
DL LTE CA Class	PCC							SCC1				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	1	99	Band 7	20M	2649.8	3048	18.50	18.59	20.00
CA_38C	Band 38	20M	QPSK	2610	38150	1	0	Band 7	20M	2590.2	37952	20.59	20.66	22.00
CA_41C	Band 41	20M	16QAM	2506	39750	1	0	Band 41	20M	2525.8	39948	20.11	20.16	21.50

• Downlink LTE CA Conducted Power of Ant4 & Ant5

Receiver off/Hotspot off														
DL LTE CA Class	PCC							SCC1				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2560	21350	1	99	Band 7	20M	3152	2660.2	20.25	20.29	21.00
CA_38C	Band 38	20M	QPSK	2580	37850	1	0	Band 38	20M	2599.8	38048	22.22	22.27	23.00
CA_41C	Band 41	20M	QPSK	2680	41490	1	50	Band 41	20M	2660.2	41292	22.61	22.68	23.50
Receiver on/Hotspot on														
DL LTE CA Class	PCC							SCC1				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2649.8	3048	13.87	13.90	14.50
CA_38C	Band 38	20M	QPSK	2610	38150	1	0	Band 7	20M	2590.2	37952	16.82	16.88	17.50
CA_41C	Band 41	20M	QPSK	2680	41490	50	25	Band 41	20M	2660.2	41292	15.79	15.84	16.50

Table 23: Conducted Power of Downlink LTE CA

Note: The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.



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8.1.6 Conducted Power of WIFI and BT

WiFi 2.4G Ant8(Chain0) Receiver off						
Mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	19.50	19.07	Yes
	6	2437		19.50	18.98	No
	11	2462		19.50	19.04	No
802.11g	1	2412	6	19.50	18.92	No
	6	2437		19.50	19.00	No
	11	2462		19.50	19.21	No
802.11n 20M	1	2412	6.5	16.50	16.00	No
	6	2437		16.50	16.01	No
	11	2462		16.50	16.02	No
802.11n 40M	3	2422	13.5	14.50	13.72	No
	6	2437		14.50	13.78	No
	9	2452		14.50	13.86	No
WiFi 2.4G Ant8(Chain0) Receiver on						
Mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	15.50	14.02	No
	6	2437		15.50	14.06	Yes
	11	2462		15.50	14.01	No
802.11g	1	2412	6	15.50	14.05	No
	6	2437		15.50	14.05	No
	11	2462		15.50	14.07	No
802.11n 20M	1	2412	6.5	12.50	11.07	No
	6	2437		12.50	10.92	No
	11	2462		12.50	10.91	No
802.11n 40M	3	2422	13.5	10.50	9.05	No
	6	2437		10.50	9.21	No
	9	2452		10.50	8.67	No



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WiFi 2.4G MIMO Receiver off						
Mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	22.50	22.06	Yes
	6	2437		22.50	22.08	Yes
	11	2462		22.50	22.04	No
802.11g	1	2412	6	22.50	21.88	No
	6	2437		22.50	22.09	No
	11	2462		22.50	22.01	No
802.11n 20M	1	2412	6.5	19.50	18.77	No
	6	2437		19.50	18.91	No
	11	2462		19.50	18.92	No
802.11n 40M	3	2422	13.5	17.50	16.82	No
	6	2437		17.50	16.72	No
	9	2452		17.50	16.71	No
WiFi 2.4G MIMO Receiver on						
Mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	18.50	17.00	No
	6	2437		18.50	17.05	Yes
	11	2462		18.50	17.04	No
802.11g	1	2412	6	18.50	17.12	No
	6	2437		18.50	16.96	No
	11	2462		18.50	17.04	No
802.11n 20M	1	2412	6.5	15.50	13.81	No
	6	2437		15.50	13.70	No
	11	2462		15.50	13.84	No
802.11n 40M	3	2422	13.5	13.50	11.78	No
	6	2437		13.50	12.03	No
	9	2452		13.50	11.54	No



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WiFi 5G Ant7(Chain1) Receiver off							
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	18.00	17.23	No
		40	5200		18.00	17.48	No
		44	5220		18.00	17.52	No
		48	5240		18.00	17.56	Yes
	U-NII-2A	52	5260		18.00	17.58	Yes
		56	5280		18.00	17.43	No
		60	5300		18.00	17.52	No
		64	5320		18.00	17.37	No
	U-NII-2C	100	5500		18.00	17.43	No
		104	5520		18.00	17.41	No
		108	5540		18.00	17.25	No
		112	5560		18.00	17.32	No
		116	5580		18.00	17.11	No
		120	5600		18.00	17.50	Yes
		124	5620		18.00	17.21	No
		128	5640		18.00	17.23	No
		132	5660		18.00	17.35	No
		136	5680		18.00	17.33	No
		140	5700		18.00	17.25	No
	U-NII-3	149	5745		18.00	17.21	Yes
		153	5765		18.00	17.17	No
		157	5785		18.00	17.38	Yes
		161	5805		18.00	17.11	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	17.00	16.01	No
		40	5200		17.00	15.21	No
		44	5220		17.00	15.11	No
		48	5240		17.00	15.06	No
	U-NII-2A	52	5260		17.00	15.11	No
		56	5280		17.00	15.21	No
		60	5300		17.00	15.26	No
		64	5320		17.00	15.09	No
	U-NII-2C	100	5500		17.00	15.01	No
		104	5520		17.00	15.02	No
		108	5540		17.00	15.11	No
		112	5560		17.00	15.03	No
		116	5580		17.00	14.99	No



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		120	5600		17.00	15.21	No
		124	5620		17.00	15.02	No
		128	5640		17.00	15.20	No
		132	5660		17.00	15.11	No
		136	5680		17.00	15.06	No
		140	5700		17.00	15.03	No
	U-NII-3	149	5745		17.00	15.89	No
		153	5765		17.00	15.95	No
		157	5785		17.00	15.93	No
		161	5805		17.00	16.02	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	17.00	16.05	No
		46	5230		17.00	15.78	No
	U-NII-2A	54	5270		17.00	15.89	No
		62	5310		17.00	15.84	No
	U-NII-2C	102	5510		17.00	15.64	No
		110	5550		17.00	16.01	No
		118	5590		17.00	15.99	No
		126	5630		17.00	15.78	No
		134	5670		17.00	15.98	No
	U-NII-3	151	5755		17.00	15.88	No
		159	5795		17.00	15.85	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	18.00	16.99	No
		40	5200		18.00	17.02	No
		44	5220		18.00	17.02	No
		48	5240		18.00	16.85	No
	U-NII-2A	52	5260		18.00	16.95	No
		56	5280		18.00	16.98	No
		60	5300		18.00	16.89	No
		64	5320		18.00	17.01	No
	U-NII-2C	100	5500		18.00	17.02	No
		104	5520		18.00	17.06	No
		108	5540		18.00	17.01	No
		112	5560		18.00	17.11	No
		116	5580		18.00	16.98	No
		120	5600		18.00	16.99	No
		124	5620		18.00	16.78	No
		128	5640		18.00	17.21	No



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		132	5660		18.00	17.01	No
		136	5680		18.00	17.02	No
		140	5700		18.00	16.98	No
	U-NII-3	149	5745		18.00	16.92	No
		153	5765		18.00	16.85	No
		157	5785		18.00	16.59	No
		161	5805		18.00	16.74	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	17.00	16.21	No
		46	5230		17.00	16.01	No
	U-NII-2A	54	5270		17.00	16.11	No
		62	5310		17.00	16.01	No
	U-NII-2C	102	5510		17.00	16.21	No
		110	5550		17.00	16.47	No
		118	5590		17.00	16.54	No
		126	5630		17.00	16.25	No
		134	5670		17.00	16.21	No
	U-NII-3	151	5755		17.00	16.01	No
		159	5795		17.00	16.11	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	16.00	14.98	No
	U-NII-2A	58	5290		16.00	14.96	No
	U-NII-2C	106	5530		16.00	14.93	No
		122	5610		16.00	14.89	No
	U-NII-3	155	5775		16.00	14.89	No

WWAN + WLAN 5G Ant7(Chain1) Receiver off							
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	16.50	15.65	No
		40	5200		16.50	15.54	No
		44	5220		16.50	15.51	No
		48	5240		16.50	15.70	No
	U-NII-2A	52	5260		16.50	15.54	No
		56	5280		16.50	15.71	No
		60	5300		16.50	15.83	No
		64	5320		16.50	15.82	No
	U-NII-	100	5500		16.50	15.56	No



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