



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	<b>22.60</b>	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
	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	Channel	Channel	Tune up	
				19957	20175	20393		
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
			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
16QAM		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	
		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	
64QAM	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		
	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		
64QAM	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		
	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	<b>22.23</b>	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	
	16QAM	6	0	16.26	16.25	16.29	17.50	
		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	
	64QAM	3	3	16.3	16.32	16.32	17.50	
		6	0	16.38	16.56	16.47	17.50	
		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	
	3MHz	QPSK	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
			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
16QAM		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	
		1	0	16.26	16.76	16.41	17.50	
		1	7	16.84	16.88	16.53	17.50	
64QAM	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		
	1	0	16.49	17.02	16.33	17.50		
64QAM	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
	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
	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	<b>16.57</b>	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			
	16QAM	25	0	18.94	18.99	19.07	20.00			
		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			
	64QAM	12	13	17.92	17.99	18.12	19.00			
		25	0	18.02	17.88	18.00	19.00			
		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	
		10MHz	QPSK	20800	21100	21400	19.77	19.82	19.89	21.00
				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			
16QAM	25		25	18.96	19.01	19.12	20.00			
	50		0	18.90	18.83	18.92	20.00			
	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			
64QAM	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			
	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			



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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	<b>20.29</b>	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	
	16QAM	25	0	13.47	13.48	13.53	14.50	
		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	
	64QAM	12	13	13.48	13.55	13.69	14.50	
		25	0	13.48	13.44	13.49	14.50	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		1	0	13.86	13.87	13.76	14.50	
		1	25	13.47	13.88	13.60	14.50	
64QAM	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		
	1	0	13.02	13.02	13.58	14.50		
10MHz	64QAM	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	
	16QAM	25	0	20.90	20.94	20.93	22.00	
		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	
	64QAM	12	13	19.93	19.99	20.02	21.00	
		25	0	20.00	19.99	20.08	21.00	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		1	0	20.75	21.01	21.07	22.00	
		1	25	21.05	21.03	21.05	22.00	
64QAM	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		
	1	0	20.66	20.10	20.75	21.00		
10MHz	64QAM	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	<b>22.27</b>	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
	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	<b>16.88</b>	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	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
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	
	16QAM	25	0	21.26	21.44	21.32	21.39	21.41	22.50	
		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	
	64QAM	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	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		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	
64QAM		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	
		1	0	20.27	20.26	20.38	20.43	20.33	21.50	
16QAM	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
	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	<b>22.68</b>	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	
	16QAM	25	0	15.50	15.53	15.60	15.59	15.63	16.50	
		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	
	64QAM	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	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		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	
64QAM		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	
		1	0	15.19	15.19	15.44	15.40	15.33	16.50	
10MHz	64QAM	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	



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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	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
	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	<b>15.84</b>	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**

<b>WCDMA Band II Hotspot off</b>					
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
<b>WCDMA Band II Hotspot on</b>					
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 > ½ 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	Channel	Channel	Tune up	
				18607	18900	19193		
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	Channel	Channel	Tune up
					18615	18900	19185	
	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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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				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	<b>22.45</b>	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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				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	
	16QAM	6	0	19.16	19.18	19.19	21.00	
		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	
	64QAM	3	3	19.08	19.10	19.00	21.00	
		6	0	19.19	19.42	19.42	21.00	
		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	
	3MHz	QPSK	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
			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
16QAM		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	
		1	0	19.27	19.17	19.44	21.00	
		1	7	19.17	19.75	19.77	21.00	
64QAM	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		
	1	0	19.42	19.52	19.54	21.00		
16QAM	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
	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
	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	
	16QAM	6	0	21.22	21.23	21.27	23.00	
		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	
	64QAM	3	3	21.26	21.12	21.16	23.00	
		6	0	20.21	20.48	20.27	22.00	
		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	
	3MHz	QPSK	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
			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
16QAM		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	
		1	0	21.19	21.58	21.46	23.00	
		1	7	21.31	21.36	21.91	23.00	
64QAM	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		
	1	0	20.23	20.54	20.50	22.00		
64QAM	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	<b>22.37</b>	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	
	16QAM	6	0	21.07	21.08	21.19	23.00	
		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	
	64QAM	3	3	21.16	21.06	21.15	23.00	
		6	0	20.31	20.14	20.30	22.00	
		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	
	3MHz	QPSK	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
			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
16QAM		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	
		1	0	21.29	21.72	21.33	23.00	
		1	7	21.03	21.39	21.67	23.00	
64QAM	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		
	1	0	20.15	20.47	20.47	22.00		
64QAM	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	<b>21.48</b>	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	
	16QAM	25	0	21.98	21.92	21.92	23.00	
		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	
	64QAM	12	13	20.87	20.98	21.03	22.00	
		25	0	20.98	20.87	21.02	22.00	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		1	0	22.53	21.97	22.43	23.00	
		1	25	22.31	22.04	22.23	23.00	
64QAM		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	
		1	0	21.53	21.02	21.43	22.00	
16QAM	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	<b>23.16</b>	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	
	16QAM	25	0	18.21	18.29	18.34	20.00	
		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	
	64QAM	12	13	18.25	18.33	18.40	20.00	
		25	0	18.28	18.18	18.37	20.00	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		1	0	18.38	18.37	18.41	20.00	
		1	25	18.55	18.54	18.42	20.00	
64QAM		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	
		1	0	18.28	18.29	18.36	20.00	
16QAM	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
	20MHz	QPSK	1	0	18.29	18.45	18.35	20.00
			1	50	18.44	18.36	18.23	20.00
1			99	<b>18.59</b>	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	
	16QAM	25	0	20.37	20.39	20.44	22.00	
		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	
	64QAM	12	13	20.38	20.36	20.31	22.00	
		25	0	20.38	20.42	20.45	22.00	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		1	0	20.19	20.29	20.31	22.00	
		1	25	20.44	20.36	20.38	22.00	
64QAM		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	
		1	0	20.20	20.54	20.65	22.00	
64QAM	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	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
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	
	16QAM	25	0	21.46	21.47	21.35	21.34	21.35	23.00	
		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	
	64QAM	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	
		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	
	10MHz	QPSK	25	0	19.49	19.45	19.37	19.44	19.45	21.00
			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	
16QAM		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	
		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	
64QAM		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	
		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
	20MHz	QPSK	1	0	<b>22.64</b>	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	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
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	
	16QAM	25	0	19.86	19.85	19.87	19.81	19.79	21.50	
		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	
	64QAM	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	
		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	
	10MHz	QPSK	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
			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
16QAM		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	
		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	
64QAM		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	
		1	0	19.80	19.78	19.78	19.63	19.70	21.50	
64QAM	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
	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
	U-NII-3	132	5660		18.00	17.35	No
		136	5680		18.00	17.33	No
		140	5700		18.00	17.25	No
		149	5745		18.00	17.21	Yes
U-NII-3	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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5GHz	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune up	Average Power (dBm)	SAR Test
	U-NII-3	120	5600	MCS0	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
		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
	U-NII-3	134	5670		17.00	15.98	No
		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
	U-NII-3	134	5670		17.00	16.21	No
		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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