

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01-A05 Rev. A/0 Aug 16,2024

Report No.: SZCR250500221411

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N41 PC2 DS1 3				Conducted Power(dBm)					
				SCS 30kHz					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.07	19.80	20.21	19.89	20.27	21.00
		1	137	19.29	19.88	20.24	20.41	20.16	21.00
		1	271	19.31	20.04	20.19	20.24	20.29	21.00
		135	0	15.65	16.70	16.57	16.46	16.51	17.50
		135	69	19.33	20.03	20.10	<b>20.24</b>	20.29	21.00
		135	138	15.68	16.66	16.60	16.68	16.49	17.50
		270	0	18.74	19.52	19.67	19.57	19.78	20.50
	DFT-s-OFDM QPSK	1	1	19.19	19.95	20.20	19.92	20.19	21.00
		1	137	19.22	20.20	20.29	20.25	20.33	21.00
		1	271	19.44	20.28	20.19	20.20	20.37	21.00
		135	0	15.55	16.72	16.71	16.67	16.72	17.50
		135	69	19.35	20.20	20.13	<b>20.19</b>	20.14	21.00
		135	138	15.78	16.51	16.49	16.55	16.48	17.50
		270	0	18.11	19.22	19.17	19.12	19.09	20.00
	DFT-s-OFDM 16QAM	1	1	18.45	18.98	19.36	18.77	19.03	20.00
	DFT-s-OFDM 64QAM	1	1	16.58	17.66	17.70	17.47	17.68	18.50
	DFT-s-OFDM 256QAM	1	1	14.55	15.54	15.67	15.28	15.51	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	
				508200	513402	518598	523800	528996	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	18.53	18.61	18.46	18.48	18.67	19.50
				507204	512904	518598	524298	529998	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	19.30	20.18	20.26	20.20	20.35	21.00
				506202	512403	518598	524799	530997	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	19.21	19.85	20.19	20.35	20.24	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
<b>60MHz</b>	DFT-s-OFDM QPSK	1	1	19.19	20.06	20.38	20.39	20.20	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
<b>50MHz</b>	DFT-s-OFDM QPSK	1	1	19.02	20.17	20.35	20.27	20.38	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	19.14	20.37	20.24	20.18	20.11	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	19.11	20.05	20.22	20.08	20.33	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	19.24	20.11	20.25	20.07	20.35	21.00

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Shenzhen Branch Testing Center EEC Laboratory.

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N41 PC2 DS1 4				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	15.59	16.29	16.70	16.34	16.77	17.50
		1	137	15.81	16.48	16.77	16.90	16.69	17.50
		1	271	15.87	16.47	16.68	16.64	16.85	17.50
		135	0	12.21	13.21	13.16	13.06	12.91	14.00
		135	69	15.88	16.50	16.69	<b>16.67</b>	16.88	17.50
		135	138	12.27	13.18	13.12	13.28	12.94	14.00
		270	0	15.30	16.10	16.17	16.07	16.20	17.00
	DFT-s-OFDM QPSK	1	1	15.74	16.40	16.71	16.35	16.72	17.50
		1	137	15.79	16.68	16.75	16.70	16.88	17.50
		1	271	15.84	16.84	16.70	16.69	16.87	17.50
		135	0	12.12	13.15	13.23	13.11	13.22	14.00
		135	69	15.83	16.68	16.73	<b>16.66</b>	16.55	17.50
		135	138	12.26	12.97	13.00	13.11	13.04	14.00
		270	0	14.59	15.69	15.63	15.66	15.66	16.50
	DFT-s-OFDM 16QAM	1	1	14.87	15.57	15.90	15.22	15.54	16.50
	DFT-s-OFDM 64QAM	1	1	13.06	14.19	14.21	13.96	14.12	15.00
	DFT-s-OFDM 256QAM	1	1	11.02	12.14	12.17	11.77	12.02	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	
				14.93	15.21	14.94	14.88	15.09	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	
				15.70	16.80	16.73	16.74	16.84	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	
				15.76	16.68	16.84	16.80	16.83	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	506202	512403	518598	524799	530997	
				15.71	16.28	16.78	16.75	16.69	17.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
<b>60MHz</b>	DFT-s-OFDM QPSK	1	1	15.70	16.66	16.87	16.88	16.73	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
<b>50MHz</b>	DFT-s-OFDM QPSK	1	1	15.65	16.65	16.88	16.73	16.82	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	15.70	16.90	16.67	16.59	16.59	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	15.51	16.60	16.67	16.67	16.91	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	15.76	16.61	16.71	16.67	16.75	17.50

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N41 PC2 DSI 5				Conducted Power(dBm)					
				SCS 30kHz					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.64	15.47	15.77	15.43	15.97	16.50
		1	137	14.91	15.56	15.85	16.03	15.79	16.50
		1	271	15.06	15.51	15.77	15.68	16.01	16.50
		135	0	11.35	12.35	12.39	12.23	12.07	13.00
		135	69	15.05	15.73	15.79	<b>15.87</b>	16.05	16.50
		135	138	11.39	12.27	12.16	12.34	11.97	13.00
		270	0	14.40	15.31	15.25	15.13	15.26	16.00
	DFT-s-OFDM QPSK	1	1	14.97	15.55	15.85	15.48	15.93	16.50
		1	137	15.02	15.80	15.92	15.83	16.02	16.50
		1	271	14.94	16.04	15.83	15.79	16.02	16.50
		135	0	11.32	12.31	12.37	12.32	12.41	13.00
		135	69	15.00	15.83	15.92	<b>15.87</b>	15.64	16.50
		135	138	11.30	12.00	12.11	12.21	12.12	13.00
		270	0	13.74	14.73	14.82	14.84	14.75	15.50
	DFT-s-OFDM 16QAM	1	1	13.94	14.71	14.96	14.35	14.77	15.50
	DFT-s-OFDM 64QAM	1	1	12.26	13.27	13.44	13.19	13.23	14.00
	DFT-s-OFDM 256QAM	1	1	10.10	11.28	11.24	10.98	11.16	12.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	
				14.16	14.38	14.12	14.08	14.24	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	
				14.90	15.88	15.81	15.84	15.97	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	
				14.81	15.72	15.94	15.93	15.87	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	506202	512403	518598	524799	530997	
				14.81	15.31	15.83	15.95	15.77	16.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
<b>60MHz</b>	DFT-s-OFDM QPSK	1	1	14.88	15.89	15.96	16.09	15.78	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
<b>50MHz</b>	DFT-s-OFDM QPSK	1	1	14.70	15.84	16.10	15.77	15.86	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	14.90	15.95	15.70	15.73	15.75	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	14.71	15.71	15.88	15.83	16.01	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	14.85	15.69	15.80	15.87	15.92	16.50

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N66 DSI 0/1				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.37	22.47	22.56	23.50
		1	79	22.44	22.40	22.51	23.50
		1	158	22.44	22.77	22.56	23.50
		80	0	22.02	22.17	22.12	23.00
		80	40	22.26	22.50	22.68	23.50
		80	80	22.16	22.09	22.20	23.00
		160	0	22.00	22.16	22.39	23.00
	DFT-s-OFDM QPSK	1	1	22.32	22.42	22.41	23.50
		1	79	22.49	22.43	22.56	23.50
		1	158	22.38	22.65	22.59	23.50
		80	0	21.49	21.70	21.71	22.50
		80	40	22.45	22.50	22.68	23.50
		80	80	21.55	21.58	21.70	22.50
		160	0	21.48	21.61	21.72	22.50
	DFT-s-OFDM 16QAM	1	1	21.50	21.71	21.49	22.50
	DFT-s-OFDM 64QAM	1	1	19.89	19.96	20.16	21.00
	DFT-s-OFDM 256QAM	1	1	18.10	18.27	18.40	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	CP-OFDM QPSK	1	1	20.64	20.94	21.10	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344500	349000	353500	
25MHz	DFT-s-OFDM QPSK	1	1	22.43	22.55	22.45	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344000	349000	354000	
20MHz	DFT-s-OFDM QPSK	1	1	22.44	22.48	22.58	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343500	349000	354500	
15MHz	DFT-s-OFDM QPSK	1	1	22.38	22.52	22.53	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343000	349000	355000	

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10MHz	DFT-s-OFDM QPSK	1	1	22.36	22.43	22.43	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				342500	349000	355500	
5MHz	DFT-s-OFDM QPSK	1	1	22.40	22.60	22.71	23.50

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N66 DSI 2/3				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	DFT-s-OFDM PI/2 BPSK	1	1	21.32	21.45	21.37	22.50
		1	79	21.41	21.42	21.67	22.50
		1	158	21.50	21.63	21.75	22.50
		80	0	21.07	21.12	21.15	22.00
		80	40	21.46	21.54	21.62	22.50
		80	80	21.16	20.96	21.29	22.00
		160	0	21.03	21.19	21.34	22.00
	DFT-s-OFDM QPSK	1	1	21.35	21.44	21.36	22.50
		1	79	21.45	21.42	21.65	22.50
		1	158	21.50	21.69	21.67	22.50
		80	0	20.53	20.57	20.65	21.50
		80	40	21.45	21.50	21.65	22.50
		80	80	20.60	20.58	20.82	21.50
		160	0	20.59	20.59	20.80	21.50
	DFT-s-OFDM 16QAM	1	1	20.41	20.68	20.51	21.50
	DFT-s-OFDM 64QAM	1	1	18.81	18.98	19.11	20.00
	DFT-s-OFDM 256QAM	1	1	17.18	17.40	17.44	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	CP-OFDM QPSK	1	1	19.81	19.95	20.08	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344500	349000	353500	
25MHz	DFT-s-OFDM QPSK	1	1	21.44	21.46	21.60	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344000	349000	354000	
20MHz	DFT-s-OFDM QPSK	1	1	21.49	21.43	21.50	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343500	349000	354500	
15MHz	DFT-s-OFDM QPSK	1	1	21.36	21.52	21.66	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343000	349000	355000	

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10MHz	DFT-s-OFDM QPSK	1	1	21.44	21.56	21.63	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				342500	349000	355500	
5MHz	DFT-s-OFDM QPSK	1	1	21.56	21.46	21.74	22.50

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N66 DS1 4				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.31	17.46	17.48	18.50
		1	79	17.31	17.43	17.62	18.50
		1	158	17.52	17.72	17.64	18.50
		80	0	17.06	17.09	17.22	18.00
		80	40	17.37	17.47	17.65	18.50
		80	80	16.99	17.02	17.16	18.00
		160	0	17.17	17.06	17.42	18.00
	DFT-s-OFDM QPSK	1	1	17.21	17.45	17.49	18.50
		1	79	17.45	17.5	17.64	18.50
		1	158	17.41	17.66	17.75	18.50
		80	0	16.47	16.74	16.72	17.50
		80	40	17.53	17.45	17.71	18.50
		80	80	16.62	16.6	16.73	17.50
		160	0	16.61	16.74	16.85	17.50
	DFT-s-OFDM 16QAM	1	1	16.35	16.73	16.48	17.50
	DFT-s-OFDM 64QAM	1	1	14.81	14.92	15.12	16.00
	DFT-s-OFDM 256QAM	1	1	13.06	13.33	13.42	14.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	CP-OFDM QPSK	1	1	15.79	16.03	16.09	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344500	349000	353500	
25MHz	DFT-s-OFDM QPSK	1	1	17.39	17.42	17.52	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344000	349000	354000	
20MHz	DFT-s-OFDM QPSK	1	1	17.45	17.4	17.6	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343500	349000	354500	
15MHz	DFT-s-OFDM QPSK	1	1	17.47	17.62	17.6	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343000	349000	355000	

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10MHz	DFT-s-OFDM QPSK	1	1	17.34	17.48	17.55	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				342500	349000	355500	
5MHz	DFT-s-OFDM QPSK	1	1	17.37	17.45	17.67	18.50

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N66 DSI 5				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	DFT-s-OFDM PI/2 BPSK	1	1	16.22	16.37	16.38	17.50
		1	79	16.23	16.44	16.6	17.50
		1	158	16.61	16.73	16.74	17.50
		80	0	16.12	15.99	16.25	17.00
		80	40	16.36	16.38	16.55	17.50
		80	80	16.04	16.11	16.24	17.00
		160	0	16.16	16.07	16.4	17.00
	DFT-s-OFDM QPSK	1	1	16.22	16.44	16.45	17.50
		1	79	16.51	16.5	16.55	17.50
		1	158	16.5	16.56	16.72	17.50
		80	0	15.51	15.74	15.79	16.50
		80	40	16.61	16.36	16.79	17.50
		80	80	15.64	15.68	15.74	16.50
		160	0	15.69	15.64	15.87	16.50
	DFT-s-OFDM 16QAM	1	1	15.27	15.73	15.51	16.50
	DFT-s-OFDM 64QAM	1	1	13.8	13.84	14.15	15.00
	DFT-s-OFDM 256QAM	1	1	12.1	12.26	12.39	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				345000	349000	353000	
30MHz	CP-OFDM QPSK	1	1	14.83	15.04	15.03	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344500	349000	353500	
25MHz	DFT-s-OFDM QPSK	1	1	16.32	16.5	16.5	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				344000	349000	354000	
20MHz	DFT-s-OFDM QPSK	1	1	16.45	16.46	16.57	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343500	349000	354500	
15MHz	DFT-s-OFDM QPSK	1	1	16.43	16.67	16.61	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				343000	349000	355000	

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10MHz	DFT-s-OFDM QPSK	1	1	16.41	16.47	16.49	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				342500	349000	355500	
5MHz	DFT-s-OFDM QPSK	1	1	16.3	16.35	16.66	17.50

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**6.3 Conducted Power of NR Antenna (Ant3)**

N48 DSI 0/1				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				638000	641666	645332	
				3570	3624.99	3679.98	
<b>40MHz</b>	DFT-s-OFDM PI/2 BPSK	1	1	23.66	23.50	23.47	24.00
		1	53	23.86	23.14	23.71	24.00
		1	104	23.79	23.53	23.77	24.00
		50	0	23.45	22.94	23.08	23.50
		50	28	23.71	23.28	23.56	24.00
		50	56	23.42	22.85	23.37	23.50
		100	0	23.44	22.83	23.23	23.50
	DFT-s-OFDM QPSK	1	1	23.66	23.50	23.75	24.00
		1	53	23.65	23.16	23.71	24.00
		1	104	23.75	23.53	23.73	24.00
		50	0	22.90	22.40	22.60	23.00
		50	28	23.35	23.30	23.59	24.00
		50	56	22.97	22.32	22.87	23.00
		100	0	22.92	22.34	22.70	23.00
	DFT-s-OFDM 16QAM	1	1	22.89	22.45	22.25	23.00
	DFT-s-OFDM 64QAM	1	1	21.33	20.94	21.02	21.50
	DFT-s-OFDM 256QAM	1	1	19.12	18.96	19.36	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				638000	641666	645332	
<b>40MHz</b>	CP-OFDM QPSK	1	1	21.85	21.99	21.87	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				637668	641666	645666	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	23.69	23.51	23.39	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				637334	641666	646000	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	23.71	23.45	23.39	24.00

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N48 DSI 2/3				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				638000	641666	645332	
				3570	3624.99	3679.98	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.56	22.54	22.51	23.00
		1	53	22.90	22.22	22.67	23.00
		1	104	22.89	22.57	22.80	23.00
		50	0	22.43	22.03	22.03	22.50
		50	28	22.62	22.27	22.50	23.00
		50	56	22.40	21.75	22.30	22.50
		100	0	22.45	21.85	22.17	22.50
	DFT-s-OFDM QPSK	1	1	22.65	22.59	22.54	23.00
		1	53	22.95	22.19	22.61	23.00
		1	104	22.84	22.55	22.63	23.00
		50	0	21.83	21.46	21.64	22.00
		50	28	22.81	22.21	22.63	23.00
		50	56	21.95	21.39	21.82	22.00
		100	0	21.82	21.26	21.80	22.00
	DFT-s-OFDM 16QAM	1	1	21.86	21.42	21.33	22.00
	DFT-s-OFDM 64QAM	1	1	20.24	19.86	20.01	20.50
	DFT-s-OFDM 256QAM	1	1	18.03	17.87	18.44	18.50
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637998.98	641665.01	645330.98	
40MHz	CP-OFDM QPSK	1	1	20.93	20.90	20.90	21.50
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637667.01	641665	645664.99	
30MHz	DFT-s-OFDM QPSK	1	1	22.73	22.47	22.41	23.00
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637332.91	641664.96	645998.97	
20MHz	DFT-s-OFDM QPSK	1	1	22.71	22.46	22.44	23.00

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N48 DSI 4				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				638000	641666	645332	
				3570	3624.99	3679.98	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	20.13	19.96	20.09	20.50
		1	53	20.30	19.73	20.18	20.50
		1	104	20.47	20.14	20.22	20.50
		50	0	19.94	19.54	19.53	20.00
		50	28	20.13	19.73	20.01	20.50
		50	56	19.83	19.15	19.83	20.00
		100	0	19.98	19.34	19.75	20.00
	DFT-s-OFDM QPSK	1	1	20.24	20.08	20.04	20.50
		1	53	20.43	19.64	20.16	20.50
		1	104	20.24	20.06	20.06	20.50
		50	0	19.30	18.95	19.07	19.50
		50	28	20.23	19.65	20.15	20.50
		50	56	19.45	18.95	19.27	19.50
		100	0	19.27	18.75	19.40	19.50
	DFT-s-OFDM 16QAM	1	1	19.41	18.94	18.89	19.50
	DFT-s-OFDM 64QAM	1	1	17.72	17.44	17.56	18.00
	DFT-s-OFDM 256QAM	1	1	15.53	15.29	15.91	16.00
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637996.45	641662.55	645328.54	
40MHz	CP-OFDM QPSK	1	1	18.36	18.38	18.34	19.00
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637664.57	641662.49	645662.52	
30MHz	DFT-s-OFDM QPSK	1	1	20.16	19.96	19.97	20.50
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637330.51	641662.45	645996.53	
20MHz	DFT-s-OFDM QPSK	1	1	20.21	19.99	19.90	20.50

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N48 DSI 5				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				638000	641666	645332	
				3570	3624.99	3679.98	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.21	18.95	18.85	19.50
		1	53	19.49	19.00	19.27	19.50
		1	104	19.38	19.29	18.99	19.50
		50	0	18.74	18.40	18.75	19.00
		50	28	19.14	18.69	19.10	19.50
		50	56	18.73	18.00	18.80	19.00
		100	0	18.81	18.58	18.95	19.00
	DFT-s-OFDM QPSK	1	1	18.96	19.08	19.01	19.50
		1	53	19.35	18.65	19.22	19.50
		1	104	19.25	19.06	18.80	19.50
		50	0	18.40	18.02	17.98	18.50
		50	28	19.19	18.74	18.89	19.50
		50	56	18.33	18.37	17.99	18.50
		100	0	18.00	17.84	18.17	18.50
	DFT-s-OFDM 16QAM	1	1	18.38	17.87	17.95	18.50
	DFT-s-OFDM 64QAM	1	1	16.55	16.55	16.73	17.00
	DFT-s-OFDM 256QAM	1	1	14.71	14.35	14.88	15.00
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637995.46	641661.48	645327.71	
40MHz	CP-OFDM QPSK	1	1	17.33	17.19	17.09	18.00
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637663.58	641661.37	645661.49	
30MHz	DFT-s-OFDM QPSK	1	1	19.14	18.69	19.16	19.50
Bandwidth	Modulation	RB size	RB offset	#VALUE!	#VALUE!	#VALUE!	Tune up
				637329.11	641661.39	645995.57	
20MHz	DFT-s-OFDM QPSK	1	1	19.30	19.04	19.10	19.50

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N77 PC3 DS1 0/1				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.22	/	24.00
		1	137	/	22.79	/	24.00
		1	271	/	23.01	/	24.00
		135	0	/	22.79	/	23.50
		135	69	/	22.71	/	24.00
		135	138	/	22.78	/	23.50
		270	0	/	22.87	/	23.50
	DFT-s-OFDM QPSK	1	1	/	23.09	/	24.00
		1	137	/	22.83	/	24.00
		1	271	/	22.89	/	24.00
		135	0	/	21.80	/	23.00
		135	69	/	22.74	/	24.00
		135	138	/	21.73	/	23.00
		270	0	/	21.75	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	22.19	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.78	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.70	/	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	21.42	/	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.92	22.96	23.07	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	23.00	22.93	23.11	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	23.00	23.05	23.17	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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30MHz	DFT-s-OFDM QPSK	1	1	22.87	22.92	23.11	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	22.91	22.93	23.06	24.00

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N77 PC3 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.70	/	23.50
		1	137	/	22.24	/	23.50
		1	271	/	22.42	/	23.50
		135	0	/	22.39	/	23.00
		135	69	/	22.36	/	23.50
		135	138	/	22.27	/	23.00
		270	0	/	22.25	/	23.00
	DFT-s-OFDM QPSK	1	1	/	22.53	/	23.50
		1	137	/	22.18	/	23.50
		1	271	/	22.54	/	23.50
		135	0	/	21.15	/	22.50
		135	69	/	22.20	/	23.50
		135	138	/	21.20	/	22.50
		270	0	/	21.15	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	21.59	/	22.50
	DFT-s-OFDM 64QAM	1	1	/	20.38	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	18.15	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	20.81	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.34	22.45	22.66	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	22.53	22.53	22.60	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.40	22.45	22.68	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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30MHz	DFT-s-OFDM QPSK	1	1	22.51	22.32	22.69	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	22.30	22.35	22.68	23.50

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N77 PC3 DS1 4/5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.77	/	20.50
		1	137	/	19.32	/	20.50
		1	271	/	19.40	/	20.50
		135	0	/	19.35	/	20.00
		135	69	/	19.50	/	20.50
		135	138	/	19.42	/	20.00
		270	0	/	19.32	/	20.00
	DFT-s-OFDM QPSK	1	1	/	19.62	/	20.50
		1	137	/	19.22	/	20.50
		1	271	/	19.57	/	20.50
		135	0	/	18.20	/	19.50
		135	69	/	19.19	/	20.50
		135	138	/	18.20	/	19.50
		270	0	/	18.20	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	18.50	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	17.42	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	15.18	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	17.81	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.30	19.49	19.65	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	19.69	19.57	19.74	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.48	19.41	19.73	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	19.49	19.51	19.64	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	19.38	19.51	19.65	20.50



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N77 PC3 DS1 0/1				Conducted Power(dBm)						
				SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.82	23.56	23.86	23.56	23.80	23.65	24.50
		1	137	23.72	23.66	23.61	23.81	23.79	23.53	24.50
		1	271	23.61	23.65	23.66	23.68	23.74	23.44	24.50
		135	0	22.97	22.98	22.77	23.14	22.93	22.96	24.00
		135	69	23.81	24.05	23.81	23.84	24.05	23.74	24.50
		135	138	22.69	22.80	22.86	22.69	22.75	22.99	24.00
		270	0	22.63	22.83	22.81	22.75	22.81	22.83	24.00
	DFT-s-OFDM QPSK	1	1	23.72	23.59	23.82	23.70	23.67	23.76	24.50
		1	137	23.67	23.66	23.58	23.66	23.73	23.58	24.50
		1	271	23.66	23.78	23.68	23.56	23.70	23.58	24.50
		135	0	22.89	22.99	22.75	23.01	22.97	23.00	23.50
		135	69	23.79	23.93	23.94	23.94	23.92	23.88	24.50
		135	138	22.79	22.88	22.91	22.76	22.85	22.87	23.50
		270	0	22.68	22.81	22.81	22.77	22.68	22.73	23.50
	DFT-s-OFDM 16QAM	1	1	22.60	22.54	22.53	22.58	22.72	22.72	23.50
	DFT-s-OFDM 64QAM	1	1	20.71	20.64	20.72	20.61	20.86	20.60	22.00
	DFT-s-OFDM 256QAM	1	1	19.55	19.52	19.62	19.49	19.47	19.62	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	22.33	22.28	22.29	22.40	22.34	22.28	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	23.68	23.76	23.67	23.65	23.72	23.62	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	DFT-s-OFDM QPSK	1	1	23.66	23.64	23.65	23.74	23.70	23.60	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
40MHz	DFT-s-OFDM QPSK	1	1	23.72	23.59	23.57	23.74	23.69	23.65	24.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
30MHz	DFT-s-OFDM QPSK	1	1	23.61	23.71	23.60	23.63	23.67	23.67	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
20MHz	DFT-s-OFDM QPSK	1	1	23.73	23.59	23.60	23.74	23.69	23.49	24.50

N77 PC3 DS1 2/3				Conducted Power(dBm)						
SCS 30kHz(3700~3980)										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.84	22.47	22.79	22.65	22.84	22.76	23.50
		1	137	22.78	22.69	22.49	22.83	22.78	22.66	23.50
		1	271	22.46	22.72	22.68	22.63	22.86	22.50	23.50
		135	0	22.03	21.88	21.78	22.09	21.81	21.92	23.00
		135	69	22.94	22.94	22.85	22.76	23.15	22.71	23.50
		135	138	21.64	21.68	21.97	21.76	21.70	22.14	23.00
		270	0	21.56	21.83	21.85	21.89	21.72	21.87	23.00
	DFT-s-OFDM QPSK	1	1	22.60	22.57	22.94	22.68	22.60	22.88	23.50
		1	137	22.80	22.81	22.71	22.55	22.86	22.73	23.50
		1	271	22.79	22.87	22.79	22.52	22.68	22.54	23.50
		135	0	21.87	22.13	21.63	22.05	21.88	21.95	22.50
		135	69	22.78	23.06	23.06	23.00	22.80	22.85	23.50
		135	138	21.64	21.79	21.94	21.84	21.96	21.91	22.50
		270	0	21.76	21.96	21.81	21.66	21.71	21.62	22.50
	DFT-s-OFDM 16QAM	1	1	21.68	21.66	21.47	21.72	21.72	21.57	22.50
	DFT-s-OFDM 64QAM	1	1	19.82	19.71	19.68	19.75	19.93	19.49	21.00
	DFT-s-OFDM 256QAM	1	1	18.46	18.53	18.48	18.37	18.45	18.67	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	21.19	21.40	21.22	21.41	21.26	21.27	22.00
Bandwidth	Modulation	RB size		Channel	Channel	Channel	Channel	Channel	Channel	Tune up

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			RB offset	649334	652000	654668	657334	660000	662666	
<b>80MHz</b>	DFT-s-OFDM QPSK	1	1	22.80	22.82	22.62	22.51	22.87	22.47	23.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
<b>60MHz</b>	DFT-s-OFDM QPSK	1	1	22.63	22.55	22.80	22.83	22.72	22.72	23.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	22.77	22.65	22.68	22.82	22.69	22.50	23.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	22.66	22.59	22.68	22.62	22.61	22.80	23.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	22.69	22.58	22.60	22.72	22.54	22.49	23.50

N77 PC3 DS1 4				Conducted Power(dBm)						
				SCS 30kHz(3700~3980)						
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
				3750.00	3786.00	3822.00	3858.00	3894.00	3930.00	
<b>100MHz</b>	DFT-s-OFDM P1/2 BPSK	1	1	20.37	20.04	20.43	20.15	20.19	20.38	21.00
		1	137	20.35	20.13	19.88	20.21	20.26	20.24	21.00
		1	271	19.96	20.26	20.32	20.27	20.37	20.13	21.00
		135	0	19.67	19.46	19.32	19.50	19.42	19.57	20.50
		135	69	20.49	20.33	20.41	20.19	20.62	20.12	21.00
		135	138	19.01	19.12	19.61	19.21	19.05	19.75	20.50
		270	0	18.98	19.35	19.42	19.33	19.14	19.52	20.50
	DFT-s-OFDM QPSK	1	1	20.15	19.95	20.39	20.14	19.98	20.33	21.00
		1	137	20.30	20.24	20.15	20.00	20.46	20.22	21.00
		1	271	20.25	20.50	20.21	19.95	20.09	20.08	21.00
		135	0	19.36	19.78	19.07	19.58	19.29	19.31	20.00
		135	69	20.39	20.62	20.66	20.42	20.41	<b>20.32</b>	21.00
		135	138	19.11	19.27	19.29	19.27	19.61	19.42	20.00
		270	0	19.26	19.42	19.16	19.30	19.33	19.06	20.00



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	DFT-s-OFDM 16QAM	1	1	19.05	19.28	18.86	19.08	19.12	18.98	20.00
	DFT-s-OFDM 64QAM	1	1	17.24	17.08	17.09	17.23	17.40	16.90	18.50
	DFT-s-OFDM 256QAM	1	1	15.89	16.08	15.90	15.83	15.88	16.18	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	18.77	18.81	18.84	18.87	18.77	18.89	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	20.24	20.42	20.06	20.05	20.22	20.10	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	DFT-s-OFDM QPSK	1	1	20.26	19.99	20.28	20.30	20.15	20.34	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
40MHz	DFT-s-OFDM QPSK	1	1	20.15	20.08	20.22	20.47	20.21	19.93	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
30MHz	DFT-s-OFDM QPSK	1	1	20.15	20.21	20.09	20.03	20.25	20.43	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
20MHz	DFT-s-OFDM QPSK	1	1	20.31	19.94	20.23	20.28	20.18	20.09	21.00

N77 PC3 DS1 5					Conducted Power(dBm)					
SCS 30kHz(3700~3980)										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00	
				1	19.52	19.06	19.55	19.30	19.26	19.34
				1	137	19.58	19.17	18.99	19.33	19.26
				1	271	18.94	19.22	19.29	19.24	19.34
										20.00



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		135	0	18.82	18.69	18.43	18.46	18.38	18.80	19.50
		135	69	19.71	19.29	19.34	19.21	19.69	19.23	20.00
		135	138	18.19	18.09	18.54	18.25	18.01	18.78	19.50
		270	0	17.92	18.48	18.45	18.33	18.32	18.65	19.50
	DFT-s-OFDM QPSK	1	1	19.24	19.17	19.45	19.13	19.19	19.53	20.00
		1	137	19.39	19.24	19.10	19.16	19.50	19.37	20.00
		1	271	19.48	19.68	19.28	19.16	19.15	19.01	20.00
		135	0	18.34	18.99	18.01	18.76	18.29	18.53	19.00
		135	69	19.42	19.55	19.72	19.61	19.61	19.42	20.00
		135	138	18.13	18.34	18.36	18.22	18.54	18.57	19.00
		270	0	18.21	18.46	18.09	18.33	18.43	18.18	19.00
	DFT-s-OFDM 16QAM	1	1	18.08	18.23	18.09	18.30	18.26	18.09	19.00
	DFT-s-OFDM 64QAM	1	1	16.23	16.31	16.13	16.22	16.61	16.02	17.50
	DFT-s-OFDM 256QAM	1	1	14.87	15.05	15.03	15.00	14.91	15.19	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	17.76	17.89	17.84	17.80	17.85	18.03	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	19.41	19.38	19.00	19.12	19.29	19.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	DFT-s-OFDM QPSK	1	1	19.38	19.02	19.21	19.48	19.11	19.32	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
40MHz	DFT-s-OFDM QPSK	1	1	19.20	19.13	19.18	19.56	19.31	19.08	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
30MHz	DFT-s-OFDM QPSK	1	1	19.23	19.34	19.04	19.18	19.31	19.55	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	

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20MHz	DFT-s-OFDM QPSK	1	1	19.32	18.96	19.22	19.23	19.20	19.24	20.00
-------	-----------------	---	---	-------	-------	-------	-------	-------	-------	-------

N77 PC2 DS1 0/1				Conducted Power(dBm)				
SCS 30kHz(3450~3550)								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				/	633334	/		
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.94	/	24.00	
		1	137	/	23.07	/	24.00	
		1	271	/	23.07	/	24.00	
		135	0	/	19.53	/	20.50	
		135	69	/	22.86	/	24.00	
		135	138	/	19.77	/	20.50	
		270	0	/	22.66	/	23.50	
	DFT-s-OFDM QPSK	1	1	/	23.03	/	24.00	
		1	137	/	23.06	/	24.00	
		1	271	/	23.12	/	24.00	
		135	0	/	19.63	/	20.50	
		135	69	/	22.93	/	24.00	
		135	138	/	19.83	/	20.50	
		270	0	/	22.13	/	23.00	
	DFT-s-OFDM 16QAM	1	1	/	22.19	/	23.00	
	DFT-s-OFDM 64QAM	1	1	/	20.32	/	21.50	
	DFT-s-OFDM 256QAM	1	1	/	18.28	/	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				/	633334	/		
100MHz	CP-OFDM QPSK	1	1	/	21.83	/	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				632668	633334	634000		
80MHz	DFT-s-OFDM QPSK	1	1	23.29	23.16	23.45	24.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				632000	633334	634668		
60MHz	DFT-s-OFDM QPSK	1	1	23.11	23.28	23.35	24.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	



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				631334	633334	635334	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	23.08	23.58	23.37	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	23.39	23.48	23.31	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	23.20	23.27	23.19	24.00

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N77 PC2 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.48	/	23.50
		1	137	/	22.67	/	23.50
		1	271	/	22.59	/	23.50
		135	0	/	18.95	/	20.00
		135	69	/	22.34	/	23.50
		135	138	/	19.22	/	20.00
		270	0	/	22.24	/	23.00
	DFT-s-OFDM QPSK	1	1	/	22.48	/	23.50
		1	137	/	22.51	/	23.50
		1	271	/	22.65	/	23.50
		135	0	/	19.08	/	20.00
		135	69	/	22.52	/	23.50
		135	138	/	19.34	/	20.00
		270	0	/	21.57	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	21.61	/	22.50
	DFT-s-OFDM 64QAM	1	1	/	19.72	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	17.77	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	21.24	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.72	22.54	23.03	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	22.55	22.78	22.78	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.49	22.97	22.79	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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30MHz	DFT-s-OFDM QPSK	1	1	22.86	22.93	22.70	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	22.73	22.88	22.81	23.50

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N77 PC2 DS1 4/5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.56	/	20.50
		1	137	/	19.58	/	20.50
		1	271	/	19.64	/	20.50
		135	0	/	15.88	/	17.00
		135	69	/	19.44	/	20.50
		135	138	/	16.19	/	17.00
		270	0	/	19.22	/	20.00
	DFT-s-OFDM QPSK	1	1	/	19.54	/	20.50
		1	137	/	19.54	/	20.50
		1	271	/	19.72	/	20.50
		135	0	/	15.98	/	17.00
		135	69	/	19.43	/	20.50
		135	138	/	16.28	/	17.00
		270	0	/	18.52	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	18.61	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	16.72	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	14.77	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.30	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.57	19.58	20.07	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	19.40	19.67	19.72	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.56	19.87	19.66	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	19.74	19.84	19.70	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	19.78	19.86	19.84	20.50



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N77 PC2 DS1 0/1				Conducted Power(dBm)						
				SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.53	23.64	23.66	23.59	23.74	23.63	24.50
		1	137	23.76	23.04	23.45	23.35	23.49	23.38	24.50
		1	271	23.61	23.70	24.00	24.10	23.97	23.98	24.50
		135	0	20.25	20.74	20.39	20.38	20.43	20.35	21.00
		135	69	23.66	23.27	23.55	23.60	23.45	23.47	24.50
		135	138	20.29	20.19	20.41	20.39	20.39	20.45	21.00
		270	0	23.25	22.71	23.36	23.38	23.32	23.41	24.00
	DFT-s-OFDM QPSK	1	1	23.54	23.59	23.63	23.58	23.60	23.69	24.50
		1	137	23.79	23.03	23.51	23.56	23.49	23.46	24.50
		1	271	23.89	23.66	23.94	23.98	23.95	24.00	24.50
		135	0	20.25	20.41	20.34	20.24	20.25	20.30	21.00
		135	69	23.92	23.47	23.84	23.76	23.76	23.84	24.50
		135	138	20.26	20.17	20.27	20.36	20.25	20.37	21.00
		270	0	22.76	22.20	22.89	22.79	22.97	22.92	23.50
	DFT-s-OFDM 16QAM	1	1	22.33	22.76	22.99	23.04	23.05	22.96	23.50
	DFT-s-OFDM 64QAM	1	1	20.55	20.38	20.88	20.82	20.84	20.96	22.00
	DFT-s-OFDM 256QAM	1	1	19.41	19.34	19.80	19.89	19.78	19.73	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	22.12	21.21	21.74	21.64	21.76	21.71	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	23.50	23.61	23.70	23.62	23.78	23.80	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	DFT-s-OFDM QPSK	1	1	23.49	23.51	23.58	23.63	23.52	23.59	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	23.53	23.61	23.54	23.50	23.52	23.61	24.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	23.47	23.64	23.58	23.57	23.61	23.51	24.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	23.59	23.61	23.71	23.61	23.73	23.77	24.50

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N77 PC2 DS1 2/3				Conducted Power(dBm)						
				SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00	
		1	1	22.51	22.54	22.81	22.79	22.87	22.68	23.50
		1	137	22.79	22.17	22.63	22.40	22.45	22.51	23.50
		1	271	22.74	22.86	22.93	23.27	22.93	22.92	23.50
		135	0	19.29	19.92	19.48	19.39	19.55	19.43	20.00
		135	69	22.56	22.25	22.46	22.69	22.55	22.47	23.50
		135	138	19.36	19.24	19.33	19.53	19.53	19.37	20.00
	DFT-s-OFDM QPSK	270	0	22.37	21.68	22.30	22.41	22.40	22.32	23.00
		1	1	22.57	22.62	22.78	22.63	22.57	22.68	23.50
		1	137	22.77	22.08	22.68	22.51	22.61	22.37	23.50
		1	271	22.82	22.56	23.14	22.99	22.88	23.04	23.50
		135	0	19.31	19.50	19.51	19.29	19.28	19.47	20.00
		135	69	22.56	22.27	22.64	22.53	22.53	22.58	23.50
		135	138	19.36	19.37	19.29	19.44	19.25	19.35	20.00
	DFT-s-OFDM 16QAM	270	0	21.76	21.20	22.08	21.97	21.99	22.00	22.50
	DFT-s-OFDM 64QAM	1	1	21.52	21.67	22.03	22.01	22.09	22.01	22.50
	DFT-s-OFDM 256QAM	1	1	19.54	19.48	19.78	19.84	19.79	19.98	21.00
	DFT-s-OFDM 256QAM	1	1	18.52	18.43	18.81	18.94	18.85	18.67	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649998.9	652399.1	654799.1	657199.1	659599.1	661999.1	
100MHz	CP-OFDM QPSK	1	1	4	8	2	4	5	5	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649333.0	651999.1	654667.1	657333.0	659999.2	662665.1	
80MHz	DFT-s-OFDM QPSK	1	1	6	4	5	4			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648667.0	651599.1	654533.0	657467.0	660399.0	663331.1	
60MHz	DFT-s-OFDM QPSK	1	1	6	3	4	2	1	5	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				22.40	22.60	22.51	22.80	22.46	22.56	

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				647999.1 9	651199.0 3	654398.9 3	657598.9 2	660799.1	663998.9 2	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	22.46	22.75	22.50	22.50	22.58	22.53	23.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647664.9 1	650999.1	654332.9 3	657664.9 6	660998.9 8	664333.0 3	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	22.55	22.80	22.74	22.49	22.79	22.52	23.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647332.9	650799.0 2	654266.9 7	657732.9 1	661199.0 5	664665.0 7	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	22.79	22.71	22.88	22.69	22.89	22.91	23.50

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N77 PC2 DS1 4				Conducted Power(dBm)						
				SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00	
		1	1	19.98	20.11	20.39	20.23	20.31	20.32	21.00
		1	137	20.18	19.57	20.14	19.76	19.97	19.95	21.00
		1	271	20.33	20.38	20.45	20.63	20.29	20.39	21.00
		135	0	16.77	17.43	17.12	16.91	17.05	16.98	17.50
		135	69	20.08	19.70	20.06	20.04	19.92	20.07	21.00
		135	138	16.71	16.78	16.94	16.96	17.09	16.83	17.50
	DFT-s-OFDM QPSK	270	0	19.96	19.30	19.70	20.00	19.95	19.70	20.50
		1	1	20.10	20.15	20.36	20.23	20.13	20.05	21.00
		1	137	20.37	19.70	20.03	19.94	20.21	19.78	21.00
		1	271	20.33	19.95	20.56	20.37	20.38	20.57	21.00
		135	0	16.83	17.08	17.12	16.65	16.84	17.03	17.50
		135	69	20.40	19.93	20.19	20.12	20.23	20.17	21.00
		135	138	16.75	16.84	16.85	16.82	16.75	16.84	17.50
	DFT-s-OFDM 16QAM	270	0	19.36	18.75	19.66	19.47	19.35	19.61	20.00
		1	1	18.99	19.10	19.68	19.62	19.64	19.37	20.00
		1	1	17.06	16.95	17.31	17.39	17.16	17.50	18.50
	DFT-s-OFDM 256QAM	1	1	15.99	16.07	16.39	16.36	16.33	16.12	16.50
		1	1	18.99	19.10	19.68	19.62	19.64	19.37	20.00
100MHz	CP-OFDM QPSK	RB size	RB offset	649996.4	652396.5	654796.6	657196.5	659596.4	661996.6	Tune up
				6	5	6	5	6	2	
80MHz	DFT-s-OFDM QPSK	1	1	18.58	17.78	18.43	18.06	18.31	18.14	19.50
Bandwidth	Modulation	RB size	RB offset	649330.4	651996.5	654664.5	657330.5	659996.6	662662.4	Tune up
				5	7	4	8	6	6	
60MHz	DFT-s-OFDM QPSK	1	1	20.06	20.04	20.36	20.32	20.12	20.57	21.00
Bandwidth	Modulation	RB size	RB offset	648664.5	651596.4	654530.6	657464.4	660396.4	663328.5	Tune up
				9	4	3	2	4	4	
60MHz	DFT-s-OFDM QPSK	1	1	19.88	20.14	19.92	20.29	19.83	19.95	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up

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				647996.6 9	651196.4 6	654396.3 1	657596.4 1	660796.7 5	663996.5 6	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	19.89	20.28	19.91	20.01	20.02	20.16	21.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647662.5 5	650996.4 7	654330.3	657662.5	660996.5 9	664330.4 5	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	20.05	20.15	20.09	20.14	20.14	20.17	21.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647330.3 8	650796.4	654264.3 6	657730.5 5	661196.5 9	664662.4 3	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	20.22	20.09	20.46	20.28	20.47	20.29	21.00

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N77 PC2 DS1 5				Conducted Power(dBm)						
				SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.96	19.03	19.27	19.11	19.22	19.34	20.00
		1	137	19.07	18.69	19.24	18.88	18.99	19.10	20.00
		1	271	19.38	19.46	19.50	19.60	19.29	19.42	20.00
		135	0	15.78	16.29	16.25	15.82	15.94	16.02	16.50
		135	69	19.17	18.62	18.96	19.03	18.85	19.01	20.00
		135	138	15.64	15.66	15.89	16.09	16.11	15.74	16.50
		270	0	19.07	18.40	18.72	19.06	18.96	18.77	19.50
	DFT-s-OFDM QPSK	1	1	18.97	19.23	19.35	19.21	19.09	19.03	20.00
		1	137	19.23	18.65	19.18	18.97	19.13	18.80	20.00
		1	271	19.24	18.84	19.47	19.48	19.49	19.44	20.00
		135	0	15.72	16.22	16.18	15.55	15.93	16.18	16.50
		135	69	19.17	18.59	18.94	19.03	19.13	18.97	20.00
		135	138	15.80	15.75	15.95	15.77	15.77	15.91	16.50
		270	0	18.38	17.74	18.74	18.47	18.31	18.48	19.00
	DFT-s-OFDM 16QAM	1	1	17.86	18.11	18.64	18.73	18.53	18.30	19.00
	DFT-s-OFDM 64QAM	1	1	16.03	15.89	16.17	16.36	16.23	16.39	17.50
	DFT-s-OFDM 256QAM	1	1	15.08	15.13	15.38	15.40	15.39	15.26	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649995.48	652395.48	654795.65	657195.42	659595.37	661995.71	
100MHz	CP-OFDM QPSK	1	1	17.65	16.65	17.52	17.21	17.26	17.03	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649329.6	651995.59	654663.6	657329.57	659995.53	662661.46	
80MHz	DFT-s-OFDM QPSK	1	1	19.02	18.96	19.36	19.32	19.25	19.69	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648663.5	651595.51	654529.62	657463.39	660395.35	663327.61	
60MHz	DFT-s-OFDM QPSK	1	1	18.93	19.23	18.80	19.44	18.85	19.09	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up

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				647995.8 2	651195.6	654395.4 5	657595.4 9	660795.7 9	663995.6 1	
<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	18.74	19.37	19.05	19.05	19.02	19.23	20.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647661.6 7	650995.3 2	654329.1 9	657661.4 9	660995.4 9	664329.5 7	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	19.01	19.09	19.16	19.28	19.24	19.09	20.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647329.4 1	650795.3 5	654263.3 3	657729.5 9	661195.4 7	664661.4 9	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	19.24	18.98	19.57	19.31	19.54	19.28	20.00

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SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.30	/	23.50
		1	137	/	22.29	/	23.50
		1	271	/	22.63	/	23.50
		135	0	/	21.89	/	23.00
		135	69	/	22.53	/	23.50
		135	138	/	21.98	/	23.00
		270	0	/	22.10	/	23.00
	DFT-s-OFDM QPSK	1	1	/	22.49	/	23.50
		1	137	/	22.48	/	23.50
		1	271	/	22.29	/	23.50
		135	0	/	21.48	/	22.50
		135	69	/	22.25	/	23.50
		135	138	/	21.66	/	22.50
		270	0	/	21.40	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	21.36	/	22.50
	DFT-s-OFDM 64QAM	1	1	/	20.01	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	18.07	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		21.03		22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	22.33	22.38	22.32	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.48	22.57	22.07	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	22.11	22.47	22.51	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	22.24	22.40	22.11	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	22.14	22.51	22.26	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.25	22.52	22.23	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	22.51	22.32	22.16	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	22.16	22.63	22.06	23.50

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N78 PC3 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	18.94	/	20.00
		1	137	/	18.77	/	20.00
		1	271	/	19.09	/	20.00
		135	0	/	18.41	/	19.50
		135	69	/	19.02	/	20.00
		135	138	/	18.59	/	19.50
		270	0	/	18.48	/	19.50
	DFT-s-OFDM QPSK	1	1	/	19.11	/	20.00
		1	137	/	18.98	/	20.00
		1	271	/	18.69	/	20.00
		135	0	/	18.00	/	19.00
		135	69	/	18.61	/	20.00
		135	138	/	18.22	/	19.00
		270	0	/	17.97	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	17.97	/	19.00
	DFT-s-OFDM 64QAM	1	1	/	16.48	/	17.50
	DFT-s-OFDM 256QAM	1	1	/	14.59	/	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		17.44		18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	18.98	18.93	18.78	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.00	19.01	18.58	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	18.59	18.82	19.12	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	18.82	18.89	18.54	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	18.54	19.05	18.75	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	18.85	19.12	18.61	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	19.12	18.75	18.54	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	18.68	19.10	18.61	20.00

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SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	18.56	/	19.50
		1	137	/	18.14	/	19.50
		1	271	/	18.58	/	19.50
		135	0	/	17.94	/	19.00
		135	69	/	18.48	/	19.50
		135	138	/	18.07	/	19.00
		270	0	/	17.97	/	19.00
	DFT-s-OFDM QPSK	1	1	/	18.76	/	19.50
		1	137	/	18.62	/	19.50
		1	271	/	18.15	/	19.50
		135	0	/	17.42	/	18.50
		135	69	/	18.12	/	19.50
		135	138	/	17.57	/	18.50
		270	0	/	17.61	/	18.50
	DFT-s-OFDM 16QAM	1	1	/	17.43	/	18.50
	DFT-s-OFDM 64QAM	1	1	/	15.97	/	17.00
	DFT-s-OFDM 256QAM	1	1	/	13.96	/	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		16.85		18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	18.56	18.44	18.36	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	18.57	18.44	18.20	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	17.98	18.33	18.68	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	18.39	18.38	18.05	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	18.14	18.59	18.40	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	18.22	18.73	18.14	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	18.51	18.31	17.92	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	18.24	18.51	18.14	19.50

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N78 PC3 DS1 0/1				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.79	/	23.00
		1	137	/	22.12	/	23.00
		1	271	/	22.17	/	23.00
		135	0	/	21.70	/	22.50
		135	69	/	22.00	/	23.00
		135	138	/	21.74	/	22.50
		270	0	/	21.75	/	22.50
	DFT-s-OFDM QPSK	1	1	/	21.93	/	23.00
		1	137	/	22.19	/	23.00
		1	271	/	22.13	/	23.00
		135	0	/	21.25	/	22.00
		135	69	/	22.10	/	23.00
		135	138	/	21.24	/	22.00
		270	0	/	21.20	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	21.17	/	22.00
	DFT-s-OFDM 64QAM	1	1	/	20.13	/	20.50
	DFT-s-OFDM 256QAM	1	1	/	18.11	/	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	649999.1	/	
100MHz	CP-OFDM QPSK	1	1		20.81		21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	22.43	22.67	22.37	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	22.37	22.61	22.41	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	22.49	22.52	22.53	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	22.37	22.49	22.34	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	22.49	22.44	22.38	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	22.54	22.57	22.29	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	22.45	22.50	22.36	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	22.34	22.78	22.47	23.00

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N78 PC3 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.30	/	22.50
		1	137	/	21.63	/	22.50
		1	271	/	21.66	/	22.50
		135	0	/	21.04	/	22.00
		135	69	/	21.68	/	22.50
		135	138	/	21.23	/	22.00
		270	0	/	21.47	/	22.00
	DFT-s-OFDM QPSK	1	1	/	21.39	/	22.50
		1	137	/	21.66	/	22.50
		1	271	/	21.64	/	22.50
		135	0	/	20.88	/	21.50
		135	69	/	21.55	/	22.50
		135	138	/	20.67	/	21.50
		270	0	/	20.74	/	21.50
	DFT-s-OFDM 16QAM	1	1	/	20.70	/	21.50
	DFT-s-OFDM 64QAM	1	1	/	19.75	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	17.50	/	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	649999.1	/	
100MHz	CP-OFDM QPSK	1	1		20.19		21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	21.97	22.15	21.75	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	21.93	21.97	21.79	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	22.03	22.03	21.87	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	22.02	21.89	21.73	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	21.81	22.03	21.90	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	21.98	22.15	21.86	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	21.92	21.92	21.75	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	21.74	22.22	21.86	22.50

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N78 PC3 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.40	/	20.50
		1	137	/	19.80	/	20.50
		1	271	/	19.97	/	20.50
		135	0	/	19.25	/	20.00
		135	69	/	19.88	/	20.50
		135	138	/	19.31	/	20.00
		270	0	/	19.47	/	20.00
	DFT-s-OFDM QPSK	1	1	/	19.37	/	20.50
		1	137	/	19.70	/	20.50
		1	271	/	19.70	/	20.50
		135	0	/	19.03	/	19.50
		135	69	/	19.60	/	20.50
		135	138	/	18.62	/	19.50
		270	0	/	18.67	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	18.82	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	17.76	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	15.60	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	649999.1	/	
100MHz	CP-OFDM QPSK	1	1		18.14		19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	20.19	20.47	19.84	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	20.02	20.03	19.92	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	20.04	20.12	20.05	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	20.29	19.96	19.99	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	20.04	20.17	20.10	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	20.16	20.17	19.78	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	20.06	20.01	20.09	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	20.03	20.39	19.85	20.50

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