

LTE BandX Test Data

Company: : Shenzhen Jimi IoT Co., Ltd.

EUT : LTE CAT1 ASSET GNSS TRACKER

Model Number : LL301, LL301L, LL301E

FCC ID : 2AMLFJM-LL301L



Appendix A: Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.80	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.74	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.63	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.54	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.53	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.47	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.60	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.74	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.56	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.95	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.61	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.52	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.40	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.90	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.54	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.38	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.52	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.50	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.73	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.46	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.66	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.75	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.70	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.46	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.36	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.35	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.63	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.63	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.54	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.75	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.49	PASS

Band5	1.4MHz	16QAM	20525	3RB#3	21.26	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.33	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	20.82	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.41	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.25	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.40	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.66	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.48	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.61	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.07	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.33	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.94	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.91	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.91	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.75	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.72	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.80	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.24	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.73	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.72	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.99	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.65	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.77	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.88	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.39	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.95	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.94	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.17	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.68	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.55	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.00	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.26	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.96	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.95	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.74	PASS

Band5	3MHz	16QAM	20525	1RB#0	21.51	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.68	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.12	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.79	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.88	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.63	PASS
Band5	3MHz	16QAM	20635	1RB#0	20.83	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.03	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.59	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.04	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.04	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.22	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.76	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.87	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.65	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.76	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.65	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.65	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.68	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.72	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.62	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.40	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.96	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.56	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.55	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.44	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.66	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.78	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.60	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.63	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.53	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.53	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.77	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.68	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.03	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.76	PASS

Band5	5MHz	16QAM	20425	1RB#24	21.85	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.77	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.74	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.81	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.71	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.54	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.48	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.91	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.64	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.61	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.52	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.71	PASS
Band5	5MHz	16QAM	20625	1RB#0	20.73	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.53	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.63	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.55	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.59	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.81	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.72	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.49	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.86	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.03	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.66	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.75	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.88	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.80	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.83	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.54	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.75	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.42	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.68	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.72	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.64	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.63	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.66	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.42	PASS

Band5	10MHz	QPSK	20600	25RB#12	22.39	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.81	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.67	PASS



Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	4.56	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.34	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.04	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.45	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.11	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.96	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	8.46	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.34	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.92	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	4.56	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.12	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.81	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.87	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.53	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.12	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.64	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.23	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.89	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.58	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.69	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.57	13	PASS

Test Graphs



Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



Band5-1.4MHz-QPSK-20643-6RB#0



Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20525-6RB#0



Band5-1.4MHz-16QAM-20643-6RB#0



Band5-3MHz-QPSK-20415-15RB#0



Band5-3MHz-QPSK-20525-15RB#0



Band5-3MHz-QPSK-20635-15RB#0

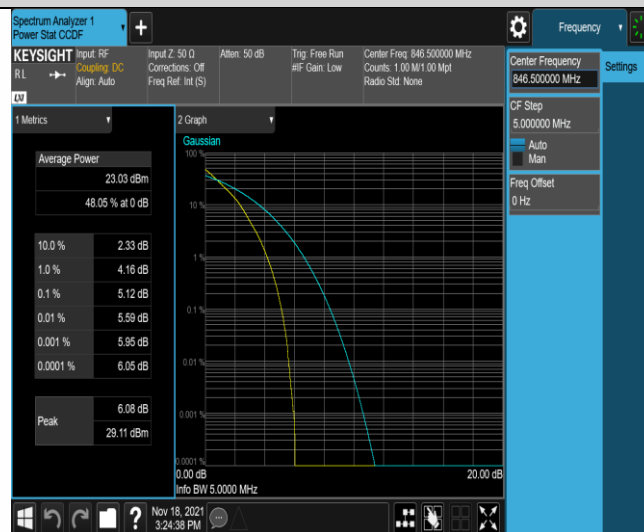




Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20525-25RB#0



Band5-5MHz-QPSK-20625-25RB#0



Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20525-25RB#0



Band5-5MHz-16QAM-20625-25RB#0

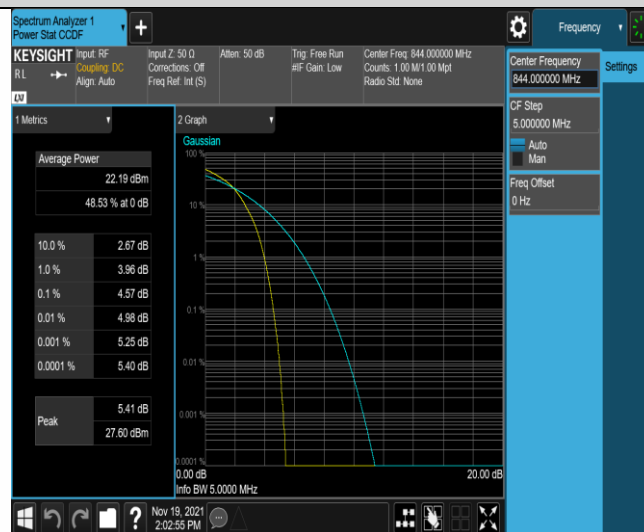
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Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



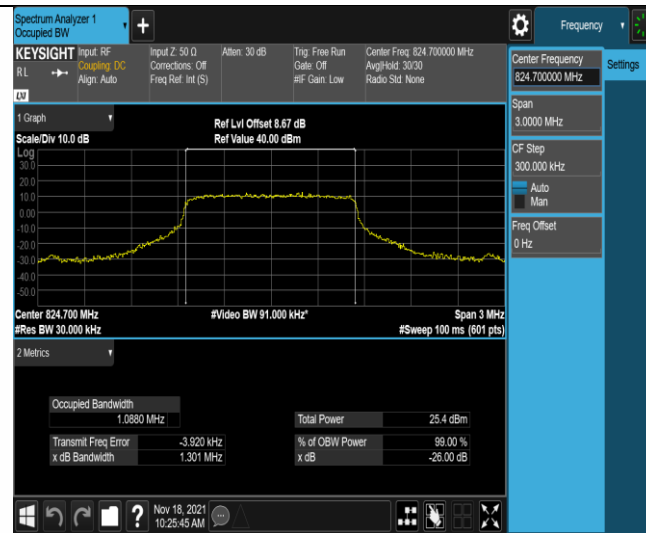
Band5-10MHz-QPSK-20600-50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

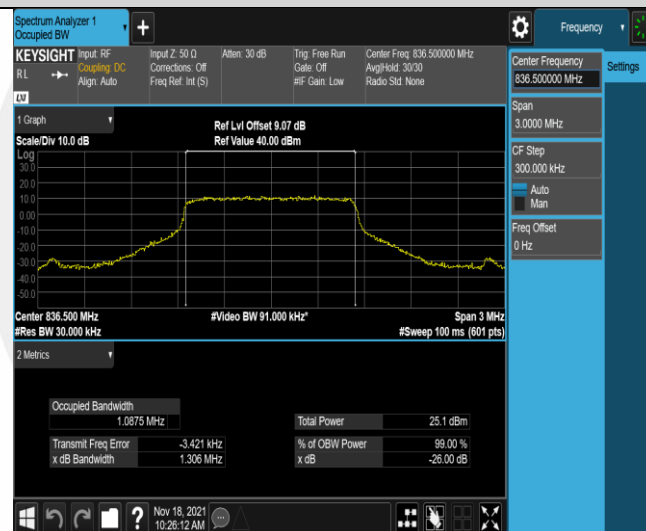
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0880	1.301	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0875	1.306	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0867	1.333	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0873	1.355	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0861	1.355	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0874	1.396	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6757	2.975	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6784	3.031	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6798	2.987	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6766	3.004	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6780	3.009	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6777	3.024	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4735	4.898	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4748	4.888	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4688	4.867	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4749	4.903	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4828	4.903	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4726	4.891	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9007	9.467	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9439	9.493	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9165	9.458	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9484	9.533	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9845	9.535	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9603	9.525	PASS

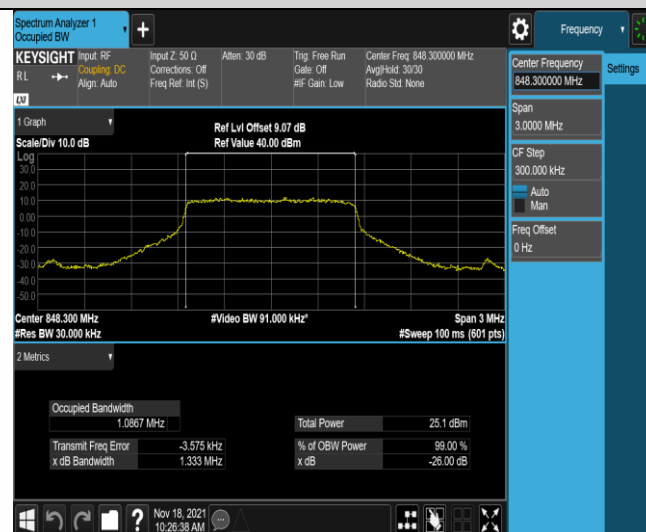
Test Graphs



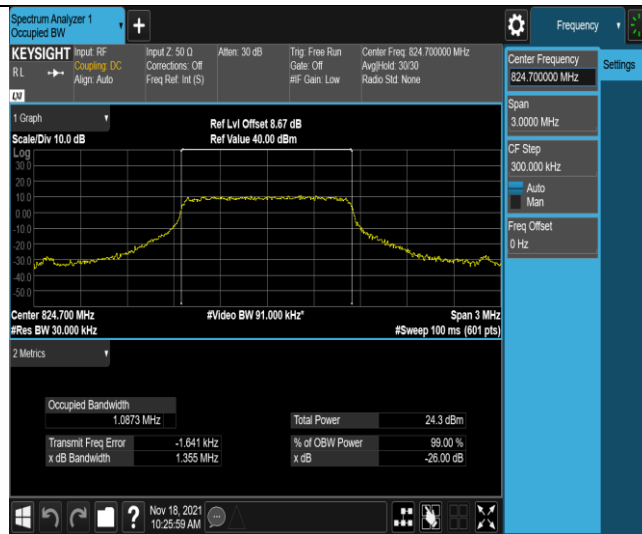
Band5-1.4MHz-QPSK-20407-6RB#0



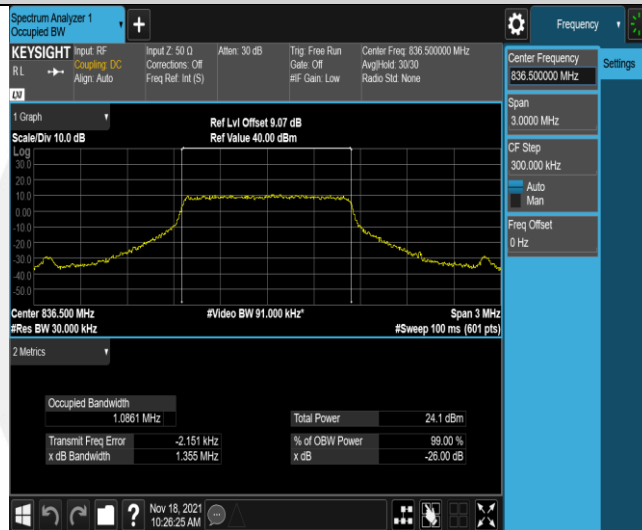
Band5-1.4MHz-QPSK-20525-6RB#0



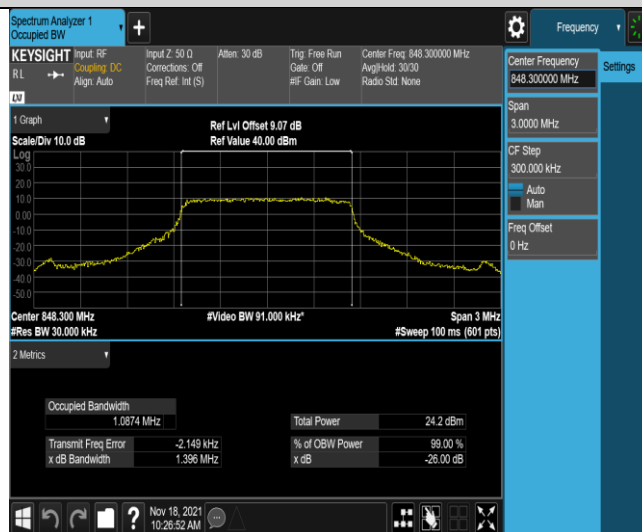
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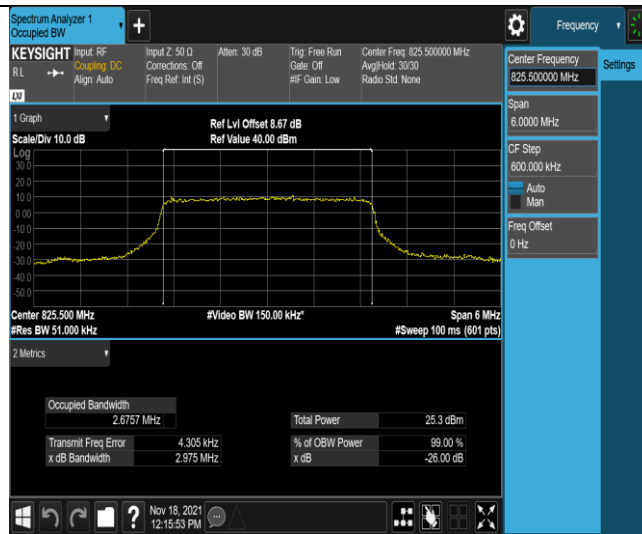
Band5-1.4MHz-16QAM-20407-6RB#0



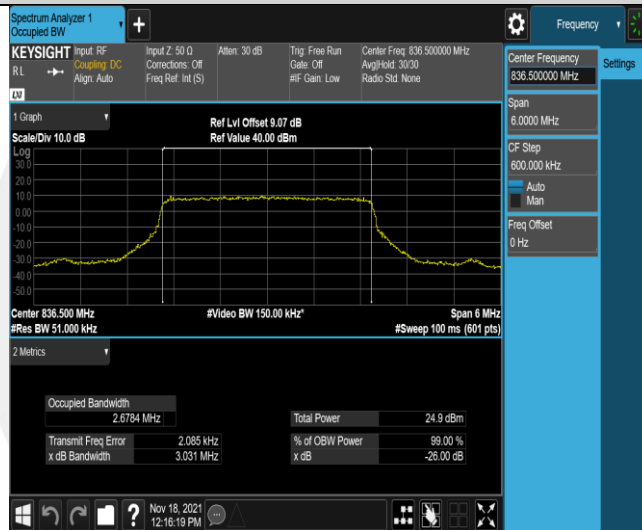
Band5-1.4MHz-16QAM-20525-6RB#0



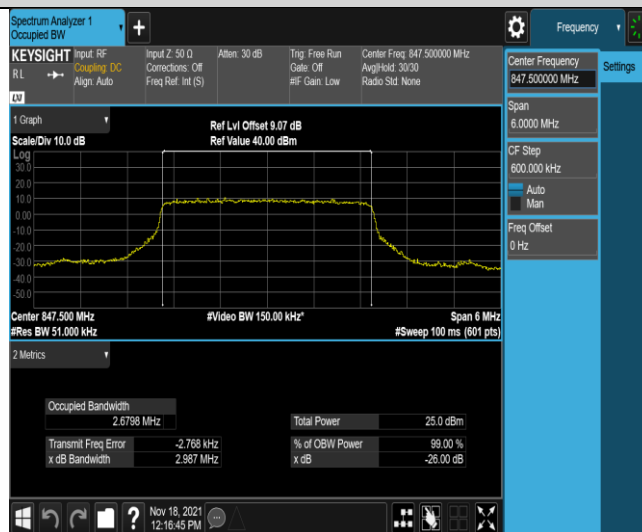
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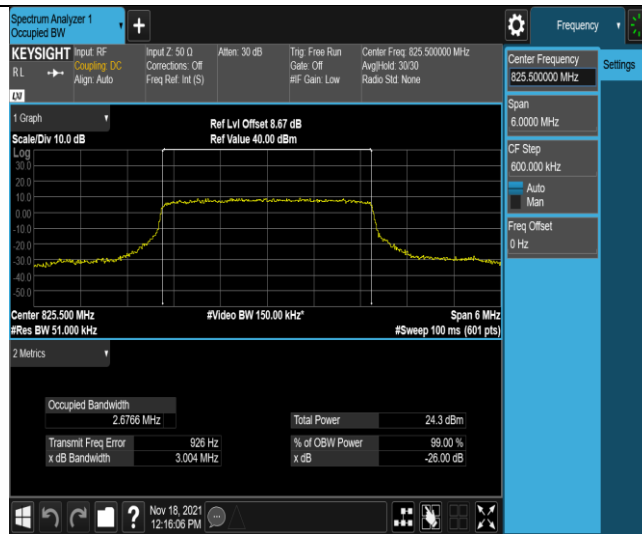
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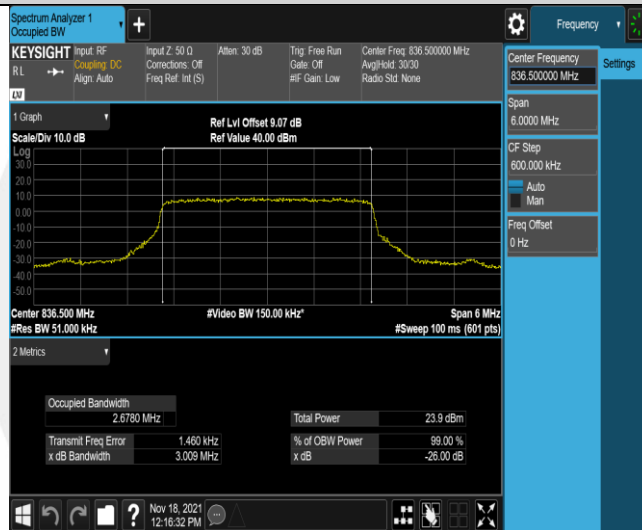
Band5-3MHz-QPSK-20525-15RB#0



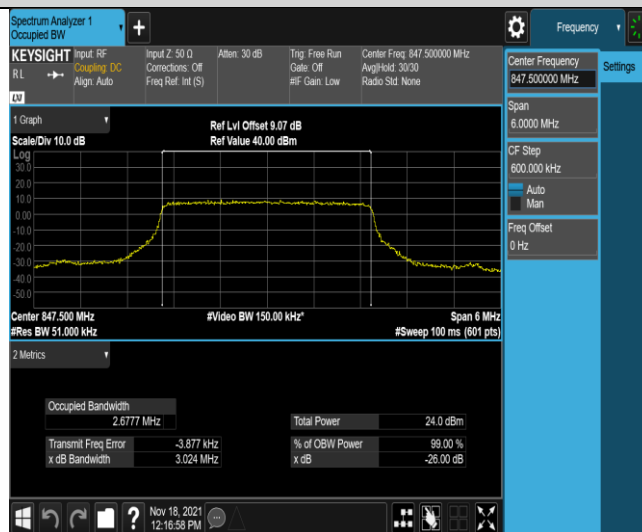
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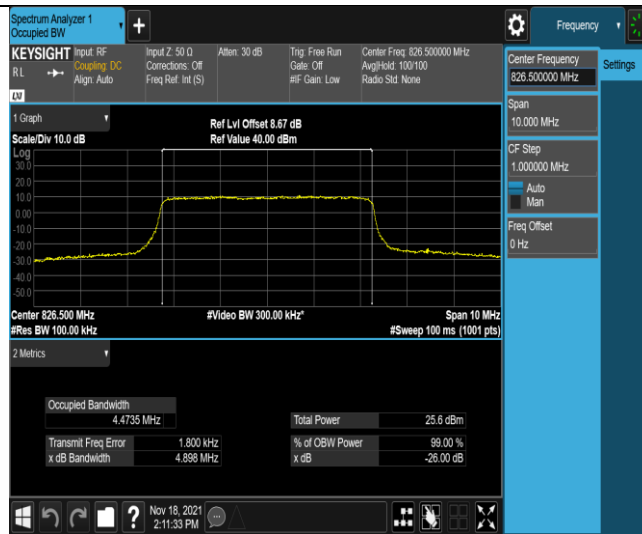
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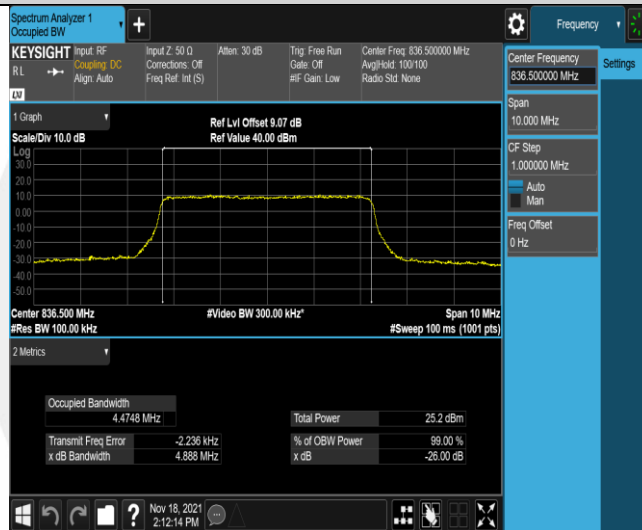
Band5-3MHz-16QAM-20525-15RB#0



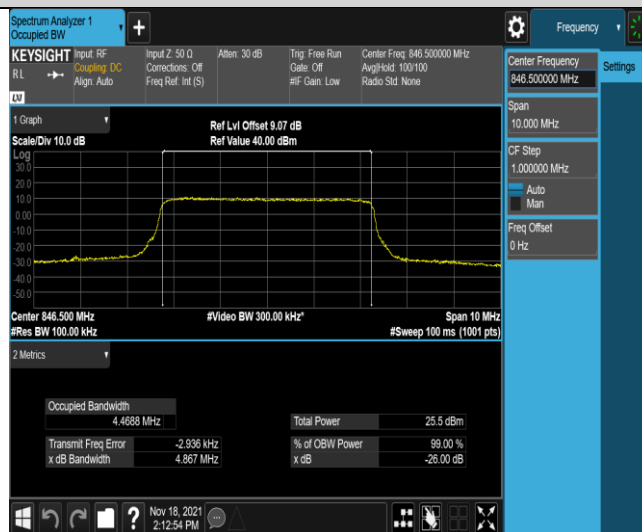
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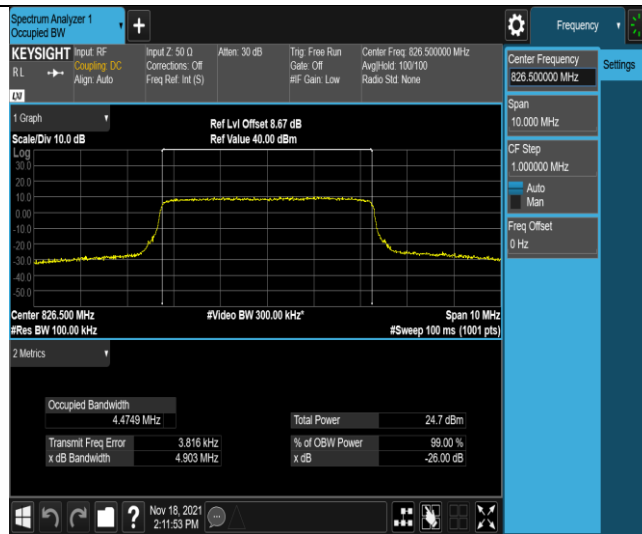
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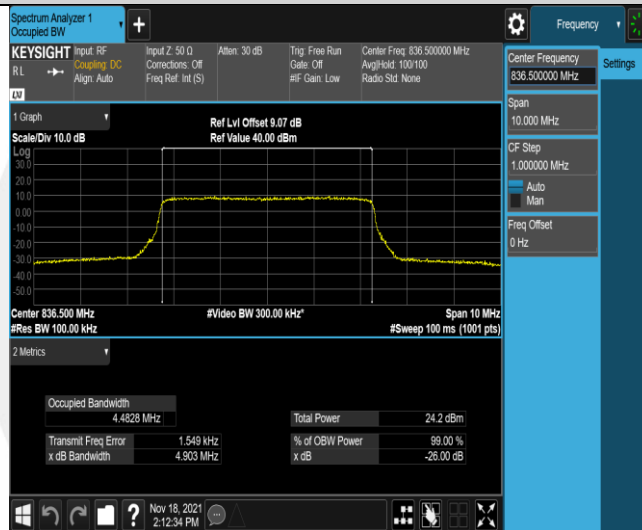
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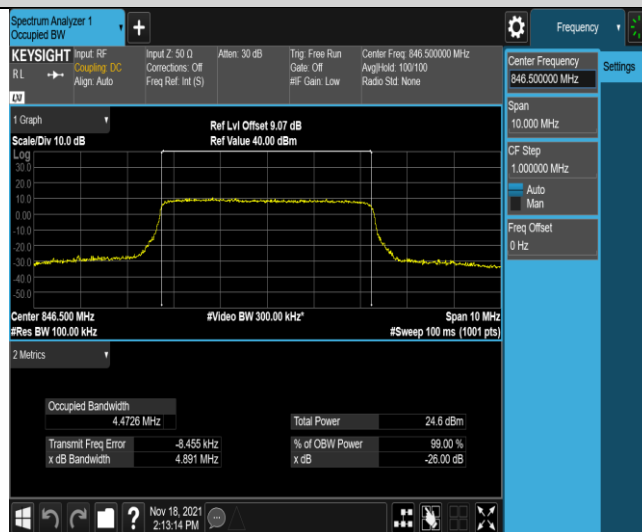
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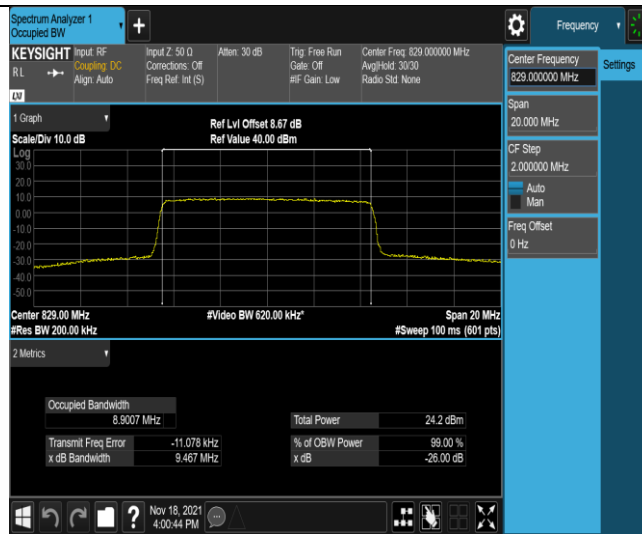
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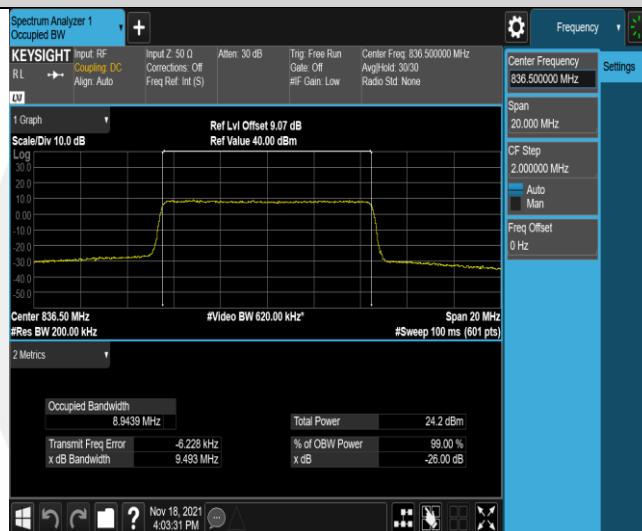
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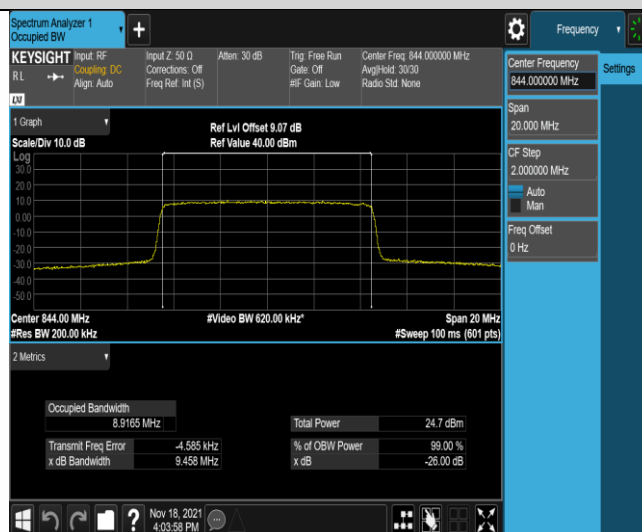
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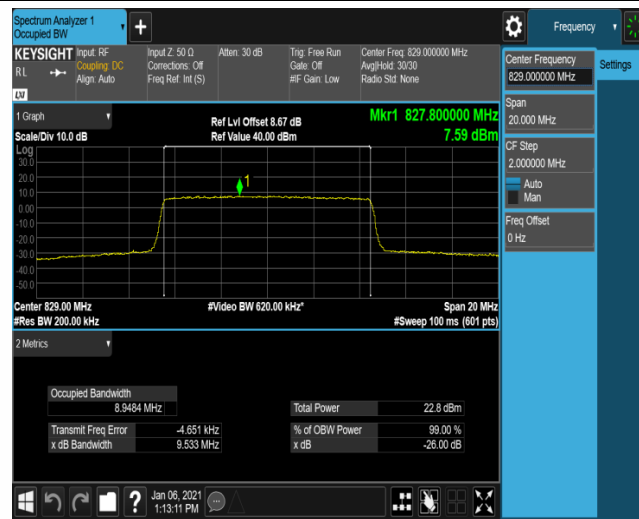
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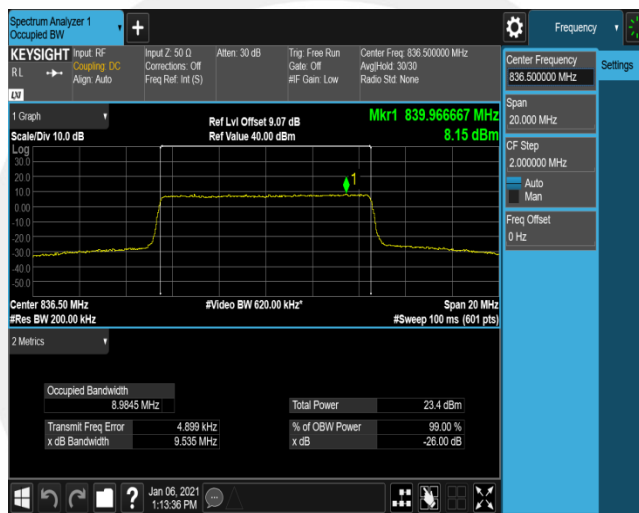
Band5-10MHz-QPSK-20525-50RB#0



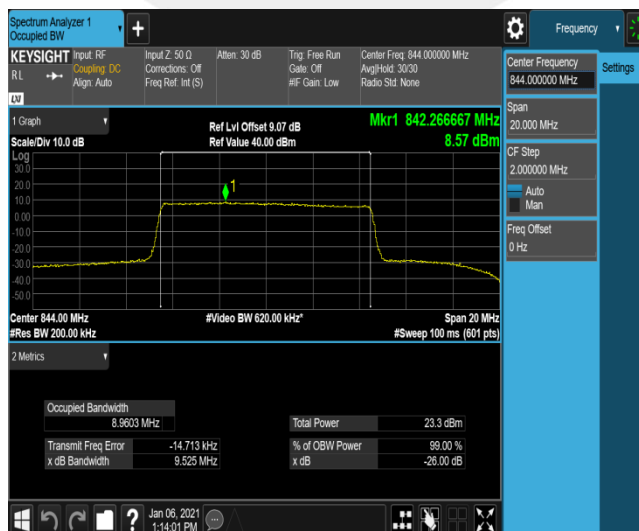
Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-13.15	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-21.77	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-19.95	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-22.37	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-13.97	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-20.28	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-14.01	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-22.79	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-19.83	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-23.86	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-14.83	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-21.14	PASS
Band5	3MHz	QPSK	20415	1RB#0	-9.47	PASS
Band5	3MHz	QPSK	20415	1RB#14	-22.74	PASS
Band5	3MHz	QPSK	20415	15RB#0	-19.38	PASS
Band5	3MHz	QPSK	20635	1RB#0	-23.74	PASS
Band5	3MHz	QPSK	20635	1RB#14	-10.08	PASS
Band5	3MHz	QPSK	20635	15RB#0	-20.93	PASS
Band5	3MHz	16QAM	20415	1RB#0	-10.68	PASS
Band5	3MHz	16QAM	20415	1RB#14	-23.14	PASS
Band5	3MHz	16QAM	20415	15RB#0	-20.93	PASS
Band5	3MHz	16QAM	20635	1RB#0	-24.47	PASS
Band5	3MHz	16QAM	20635	1RB#14	-10.94	PASS
Band5	3MHz	16QAM	20635	15RB#0	-21.63	PASS
Band5	5MHz	QPSK	20425	1RB#0	-11.73	PASS
Band5	5MHz	QPSK	20425	1RB#24	-29.60	PASS
Band5	5MHz	QPSK	20425	25RB#0	-22.31	PASS
Band5	5MHz	QPSK	20625	1RB#0	-30.57	PASS
Band5	5MHz	QPSK	20625	1RB#24	-11.78	PASS
Band5	5MHz	QPSK	20625	25RB#0	-23.77	PASS
Band5	5MHz	16QAM	20425	1RB#0	-12.26	PASS
Band5	5MHz	16QAM	20425	1RB#24	-30.27	PASS

Band5	5MHz	16QAM	20425	25RB#0	-23.87	PASS
Band5	5MHz	16QAM	20625	1RB#0	-31.28	PASS
Band5	5MHz	16QAM	20625	1RB#24	-13.12	PASS
Band5	5MHz	16QAM	20625	25RB#0	-24.80	PASS
Band5	10MHz	QPSK	20450	1RB#0	-23.55	PASS
Band5	10MHz	QPSK	20450	1RB#49	-42.99	PASS
Band5	10MHz	QPSK	20450	50RB#0	-29.63	PASS
Band5	10MHz	QPSK	20600	1RB#0	-44.41	PASS
Band5	10MHz	QPSK	20600	1RB#49	-22.92	PASS
Band5	10MHz	QPSK	20600	50RB#0	-29.01	PASS
Band5	10MHz	16QAM	20450	1RB#0	-24.55	PASS
Band5	10MHz	16QAM	20450	1RB#49	-43.99	PASS
Band5	10MHz	16QAM	20450	50RB#0	-58.07	PASS
Band5	10MHz	16QAM	20600	1RB#0	-45.52	PASS
Band5	10MHz	16QAM	20600	1RB#49	-25.19	PASS
Band5	10MHz	16QAM	20600	50RB#0	-57.69	PASS