



Appendix D: Test Data for NB1 Band 5

Product Name: HC7 NB-IoT Sensor

Test Model: HC7

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





D.1 Conducted Output Power Data for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@0	22.68	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@47	22.68	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@0	22.77	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@47	22.78	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@0	23.42	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@47	23.42	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	22.70	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	22.70	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	22.81	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	22.82	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	22.84	-999 To 38.45	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	22.82	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	22.70	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	22.71	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	3@3	22.49	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	22.85	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	22.86	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	3@3	22.62	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	22.90	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	22.90	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	3@3	22.69	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@0	22.88	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@11	22.87	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	3@3	22.49	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	23.03	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	23.01	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	3@3	22.64	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@0	23.09	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@11	23.06	-999 To 38.45	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	3@3	22.70	-999 To 38.45	PASS



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D.2 Peak-to-Average Ratio(CCDF) for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@0	2.36	<=13	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@47	8.38	<=13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	6.21	<=13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	6.17	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	4.18	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	2.83	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	3@3	10.59	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	9.72	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	7.4	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	3@3	8.54	<=13	PASS



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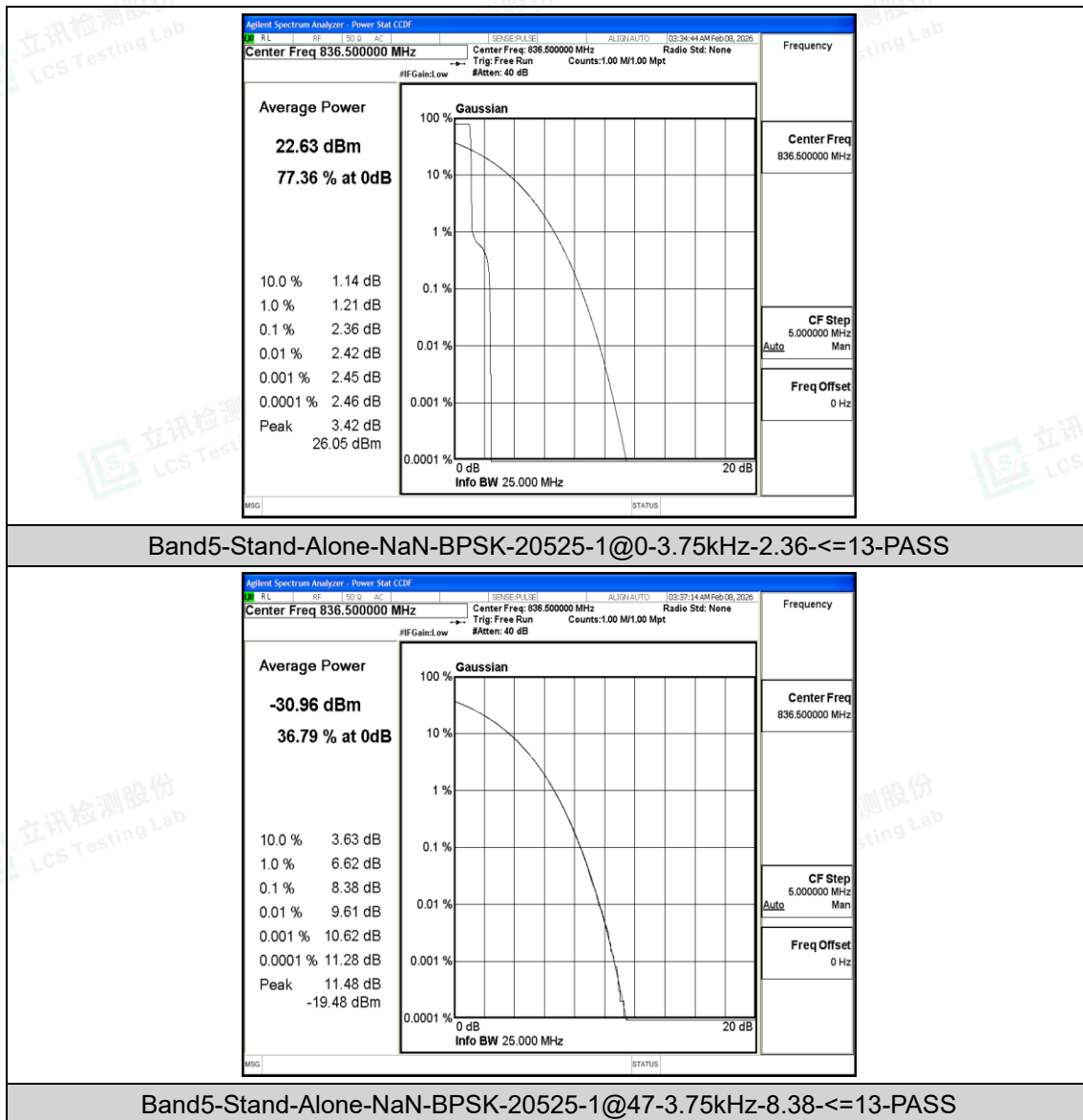
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Test Graphs

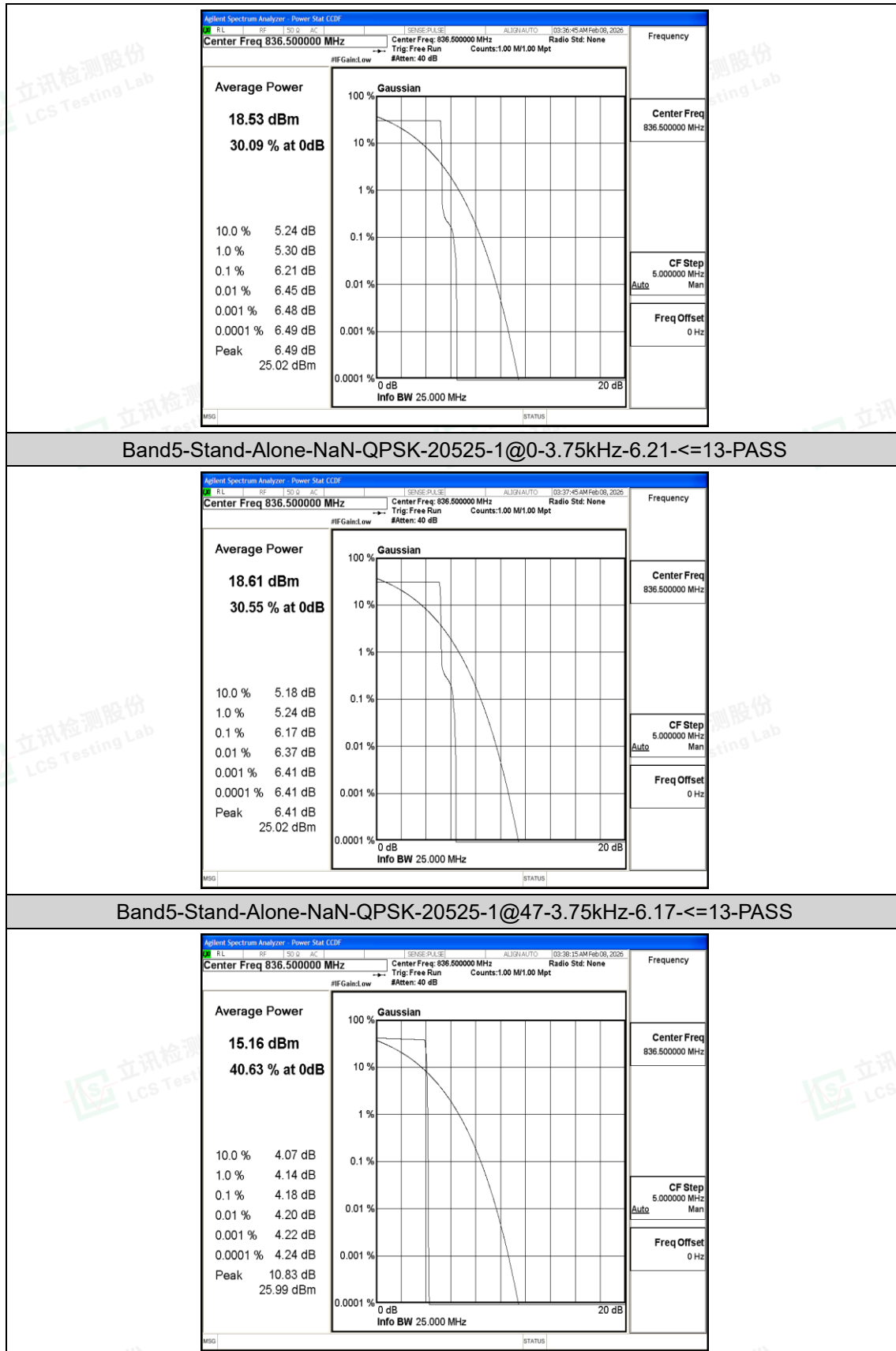


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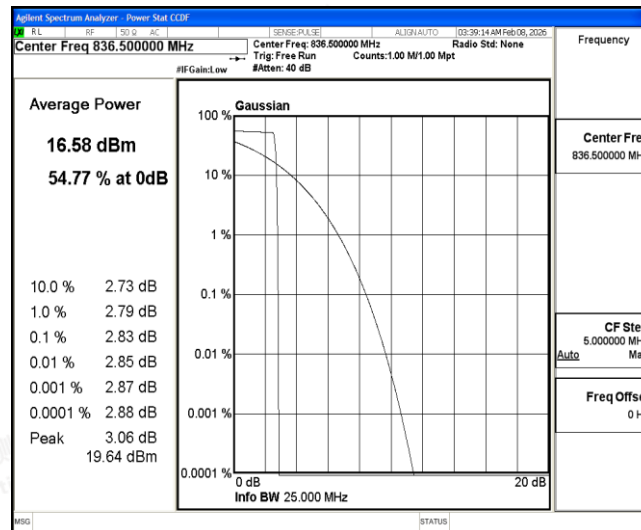
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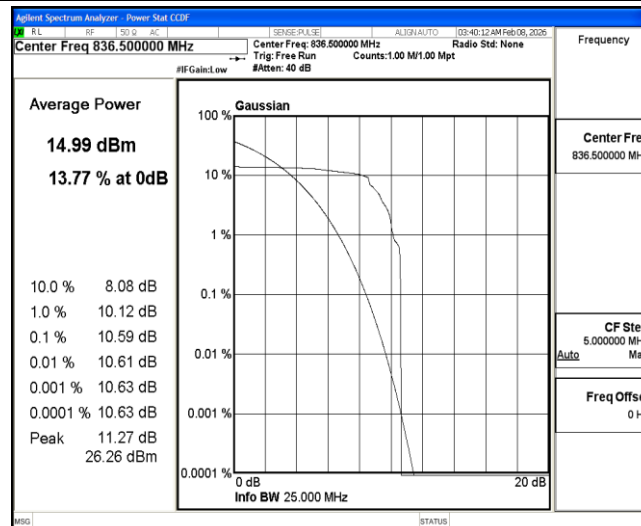
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Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-4.18-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-2.83-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-3@3-15kHz-10.59-<=13-PASS

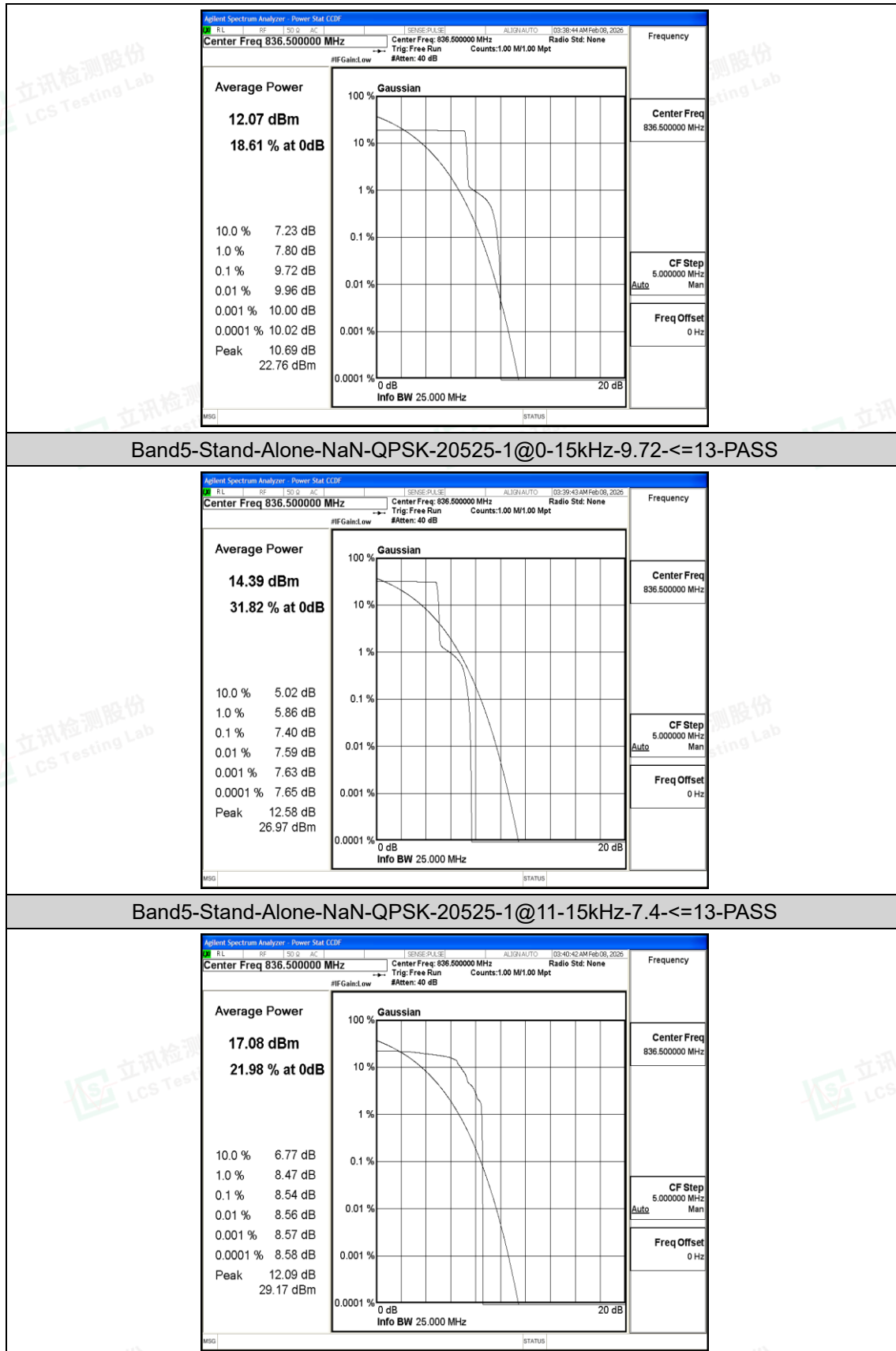


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Band5-Stand-Alone-NaN-QPSK-20525-3@3-15kHz-8.54-<=13-PASS



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D.3 Emission Bandwidth for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Emission Bandwidth (KHz)	99% Bandwidth (KHz)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@0	63.98	101.71	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@0	64.36	102.19	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@0	64.22	102.75	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	64.68	107.76	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	64.39	108.06	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	65.29	107.76	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	113.80	101.11	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	12@0	222.60	176.33	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	113.60	100.89	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	12@0	235.40	177.01	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	113.30	102.04	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	12@0	235.00	177.88	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@0	157.60	131.67	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	12@0	181.30	174.00	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	143.80	129.85	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	12@0	232.60	176.49	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@0	157.40	130.06	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	12@0	235.00	177.68	PASS



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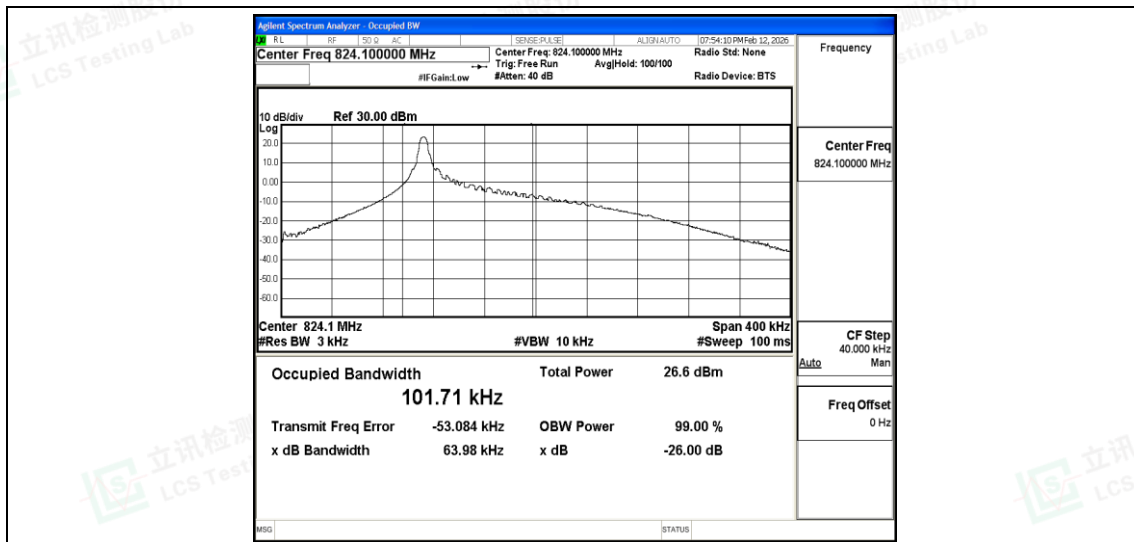
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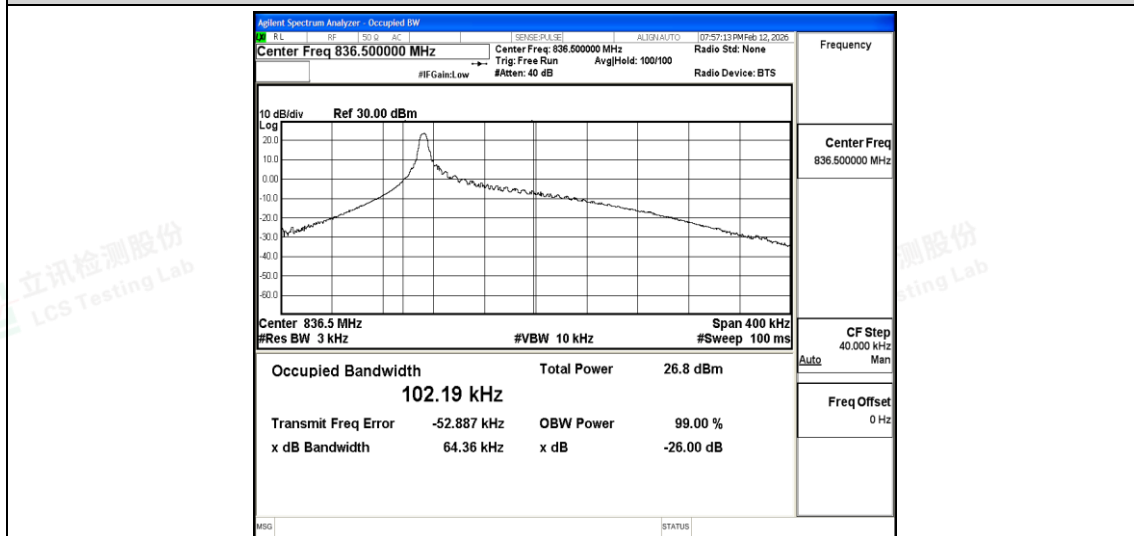
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Test Graphs



Band5-Stand-Alone-NaN-BPSK-20401-1@0-3.75kHz-0.0640-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1@0-3.75kHz-0.0644-PASS

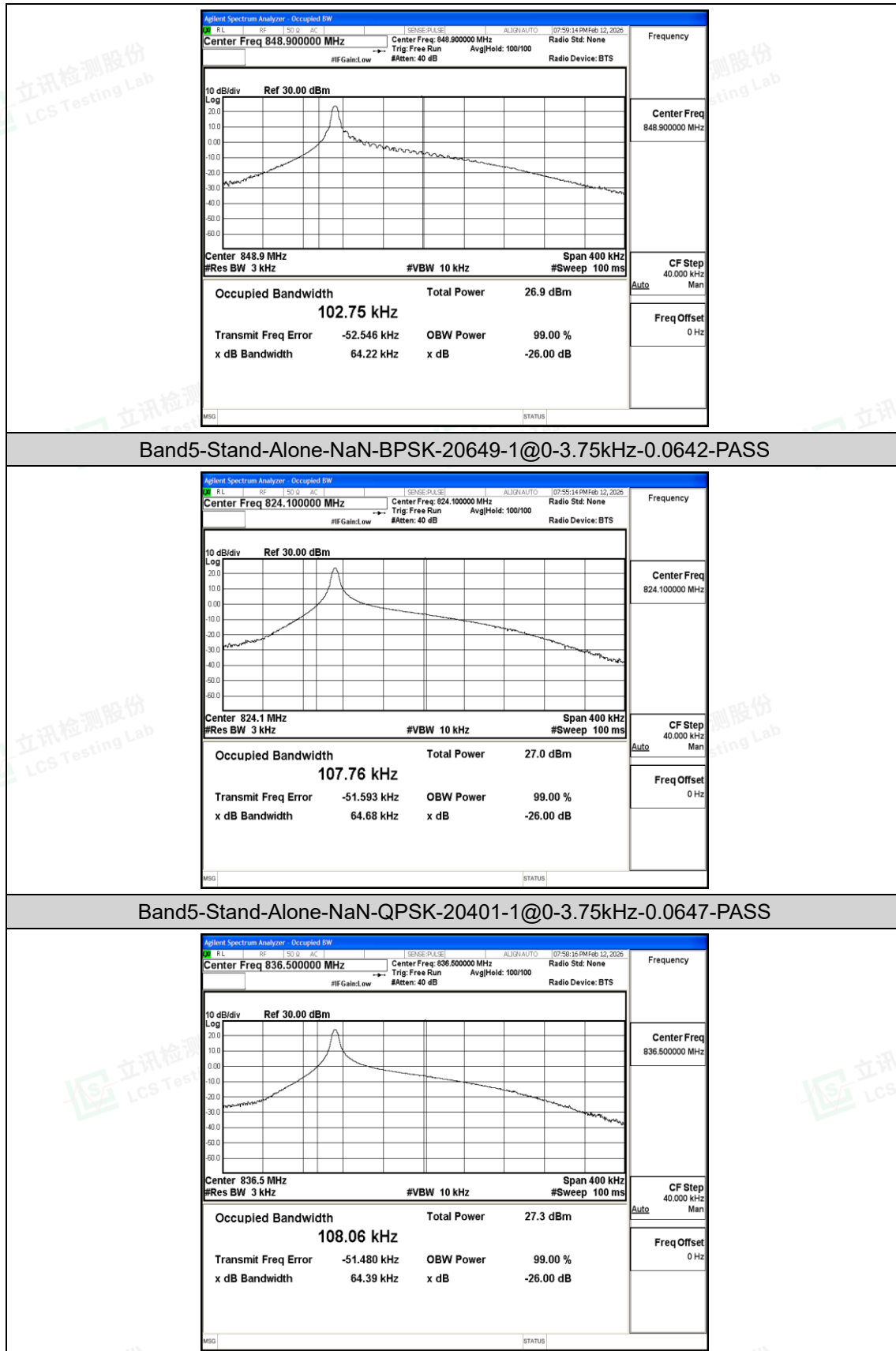


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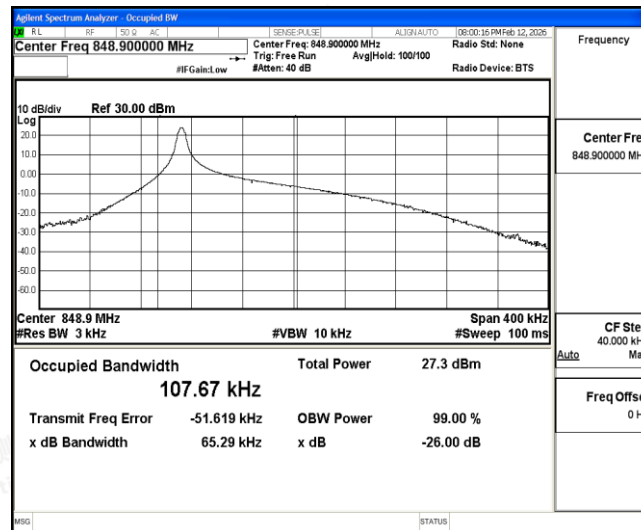
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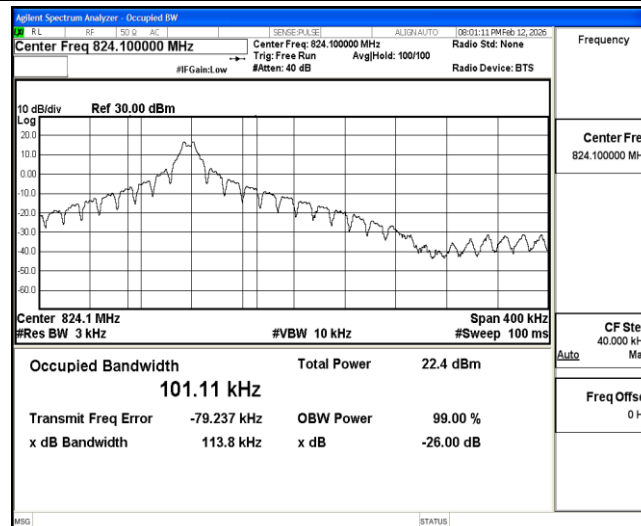
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Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-0.0644-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz-0.0653-PASS



Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz-0.1138-PASS

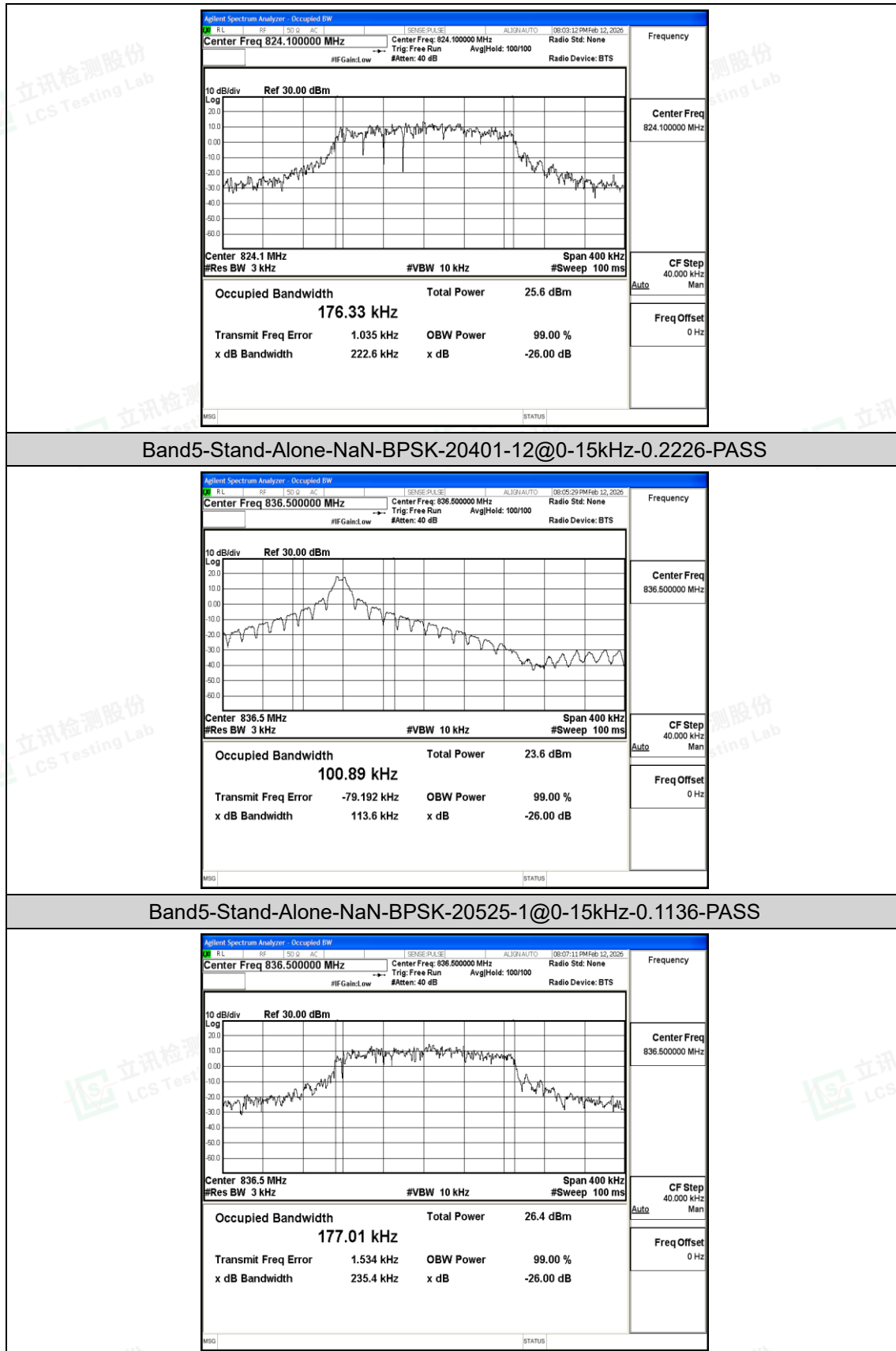


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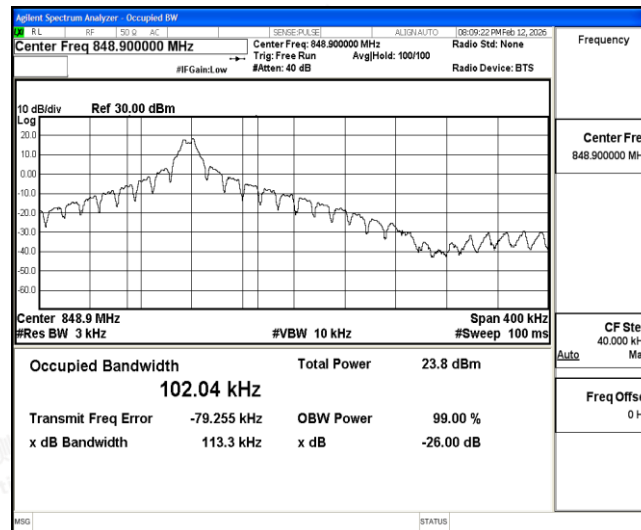
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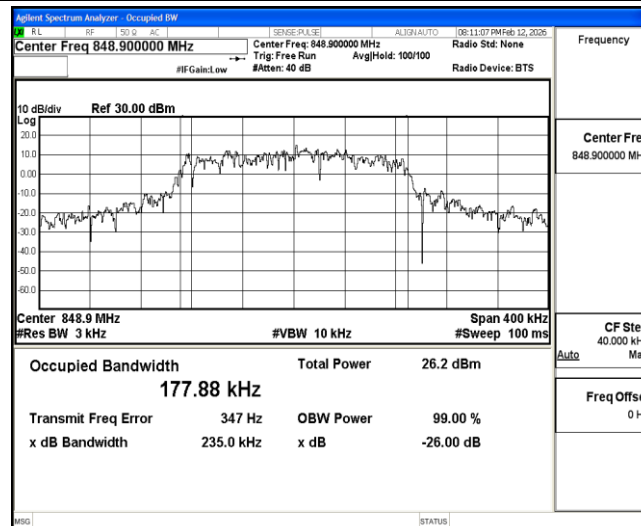
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Band5-Stand-Alone-NaN-BPSK-20525-12@0-15kHz-0.2354-PASS



Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz-0.1133-PASS



Band5-Stand-Alone-NaN-BPSK-20649-12@0-15kHz-0.2350-PASS

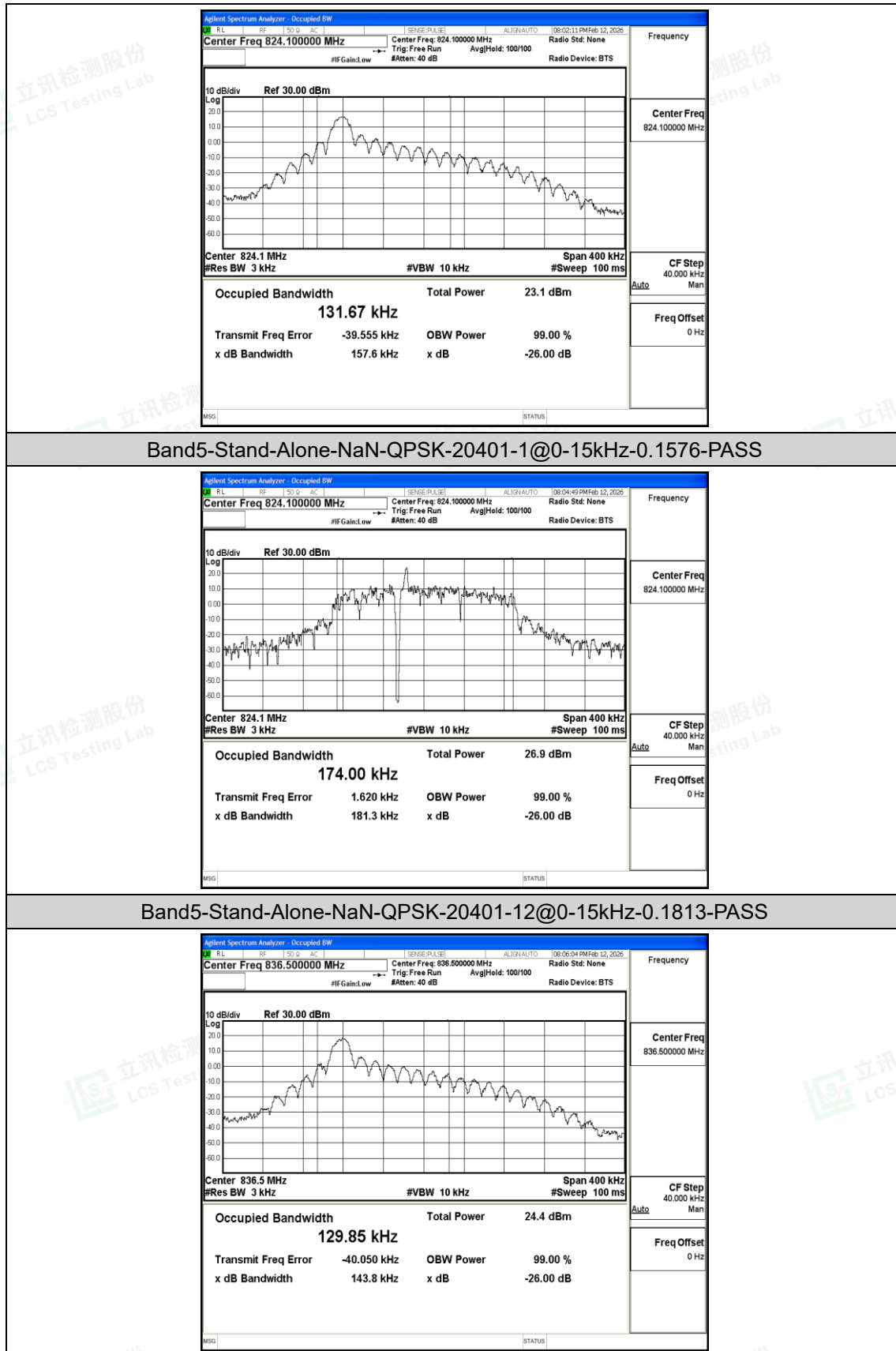


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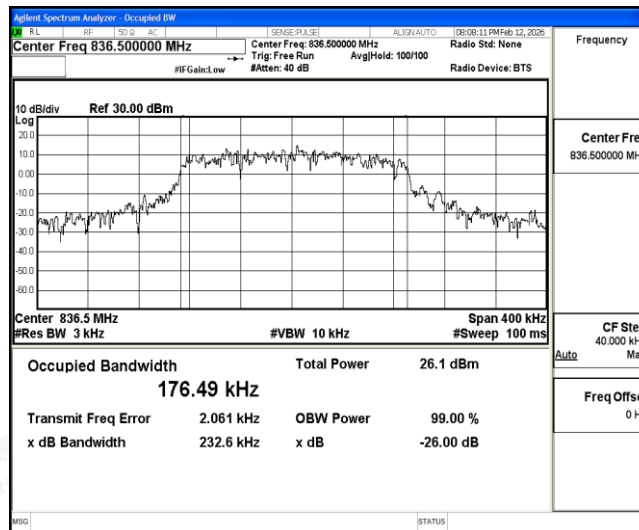
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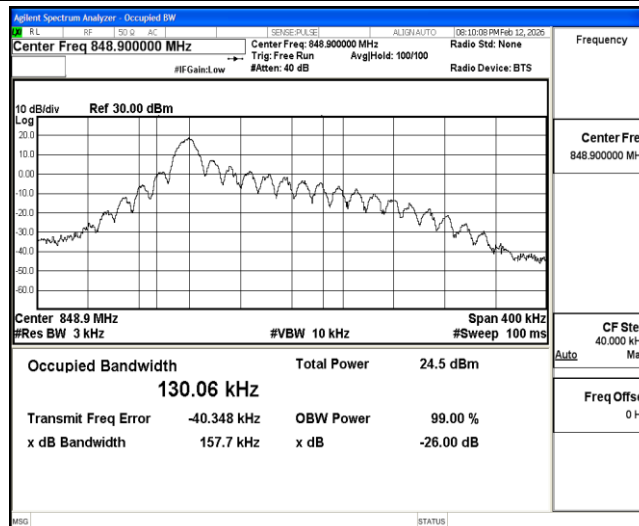
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Band5-Stand-Alone-NaN-QPSK-20525-1@0-15kHz-0.1438-PASS



Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-0.2326-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-15kHz-0.1577-PASS

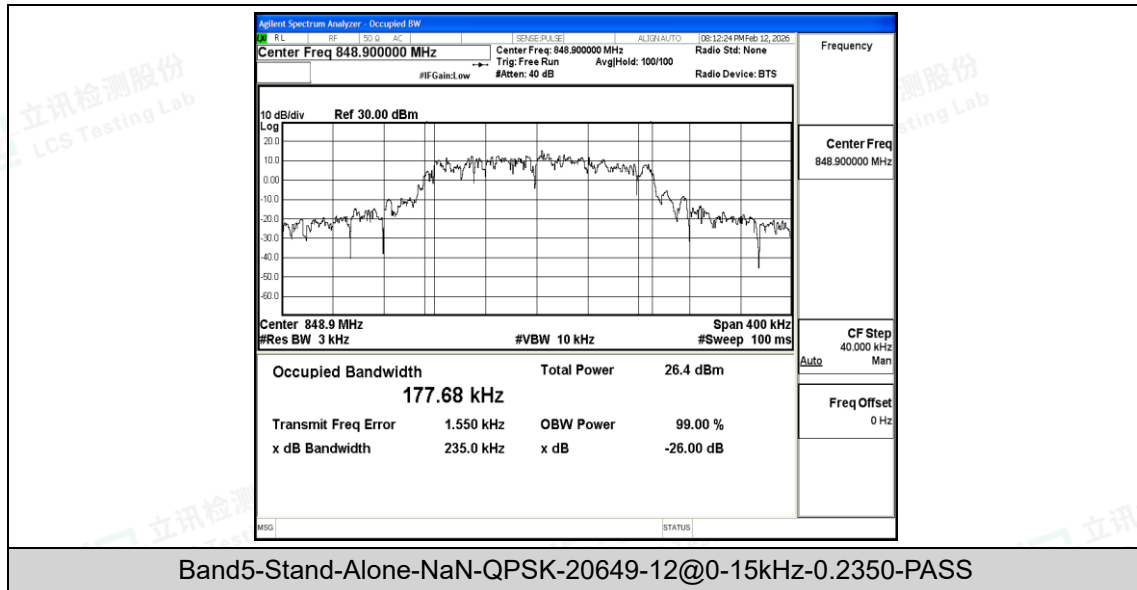


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D.4 Band Edge for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@0	-15.60	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@47	-39.56	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@0	-37.20	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@47	-14.81	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	-17.12	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	-40.13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	-39.97	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	-16.50	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	-18.51	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	-50.77	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	12@0	-37.46	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	-52.49	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	-17.66	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	12@0	-35.76	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@0	-24.15	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@11	-41.10	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	12@0	-36.93	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@0	-39.16	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@11	-19.53	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	12@0	-34.78	PASS



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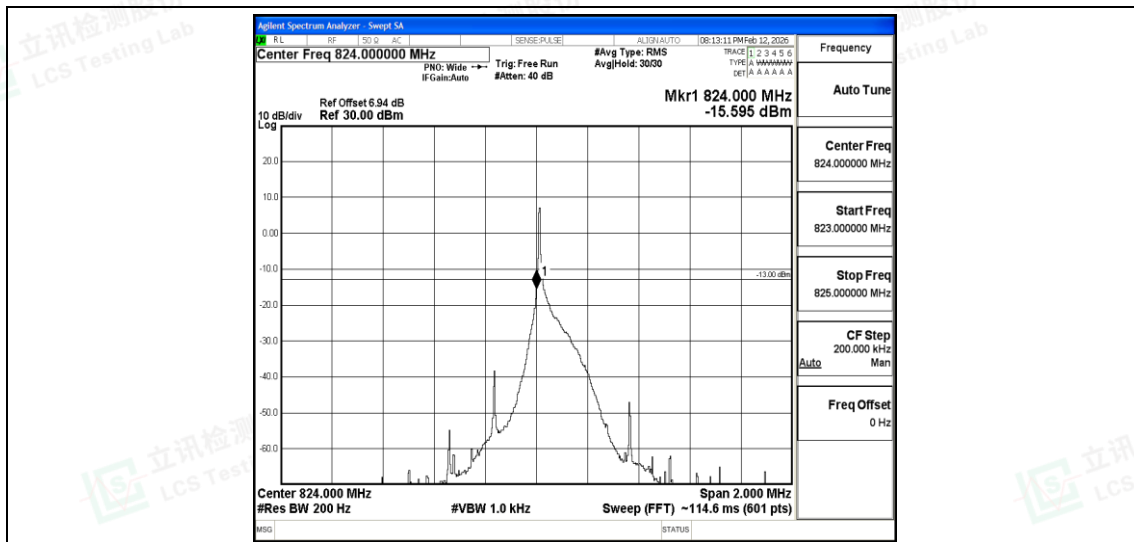
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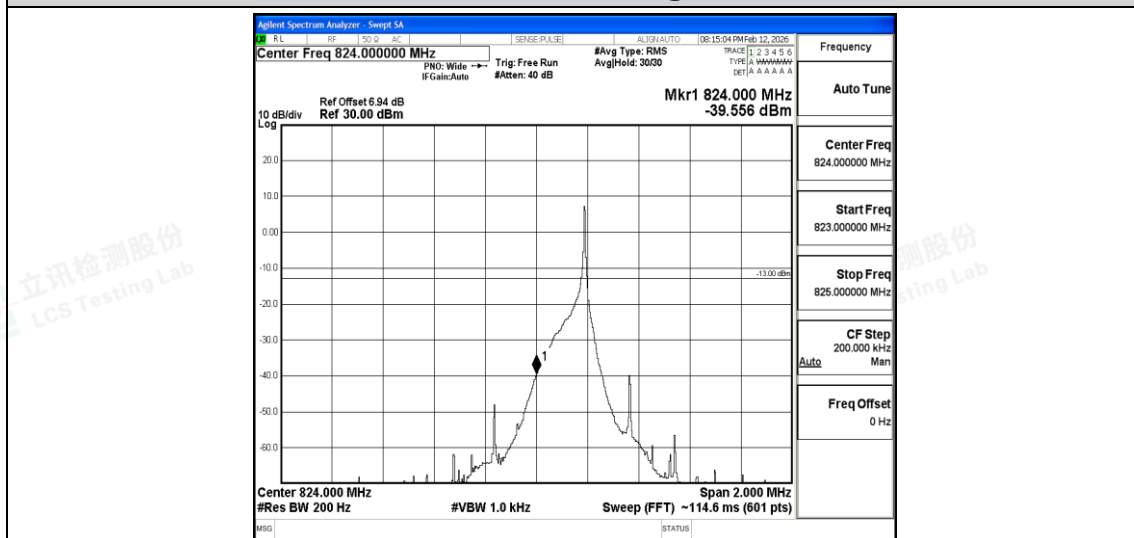
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Test Graphs



Band5-Stand-Alone-NaN-BPSK-20401-1@0-3.75kHz--15.60-PASS



Band5-Stand-Alone-NaN-BPSK-20401-1@47-3.75kHz--39.56-PASS

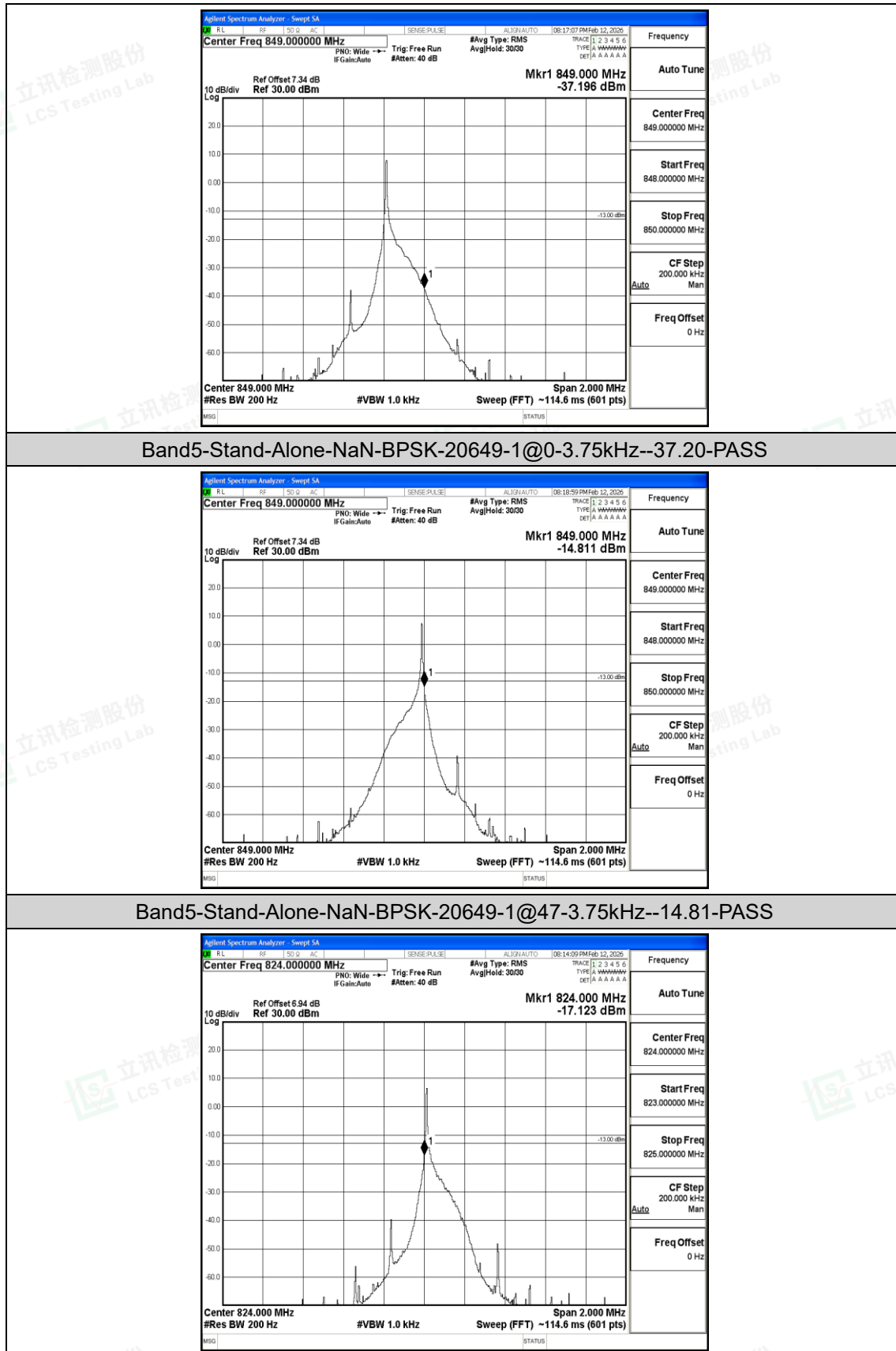


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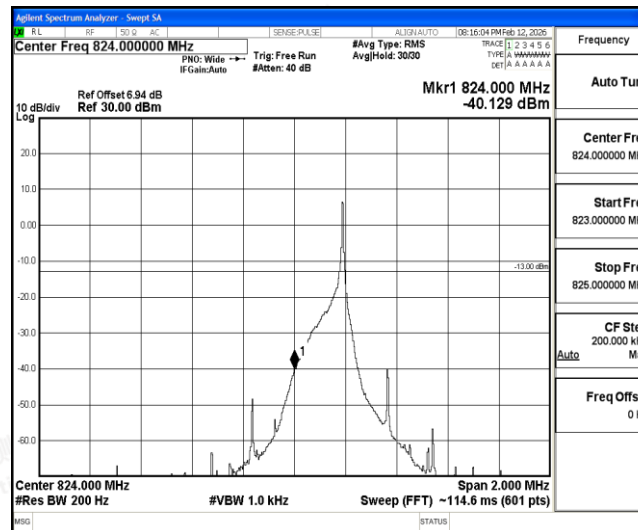
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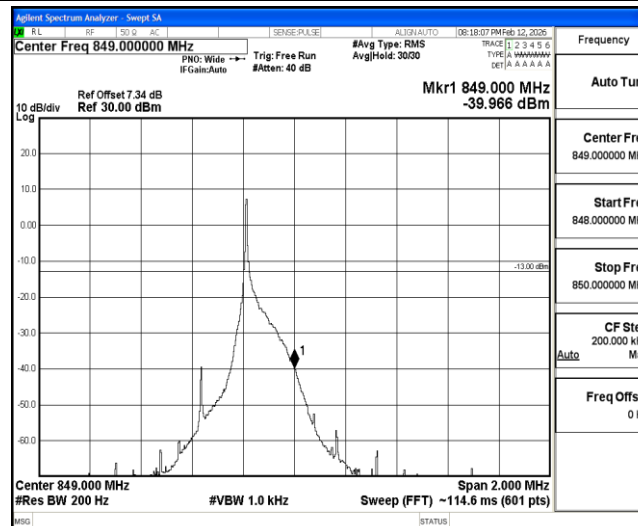
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Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz--17.12-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1@47-3.75kHz--40.13-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz--39.97-PASS

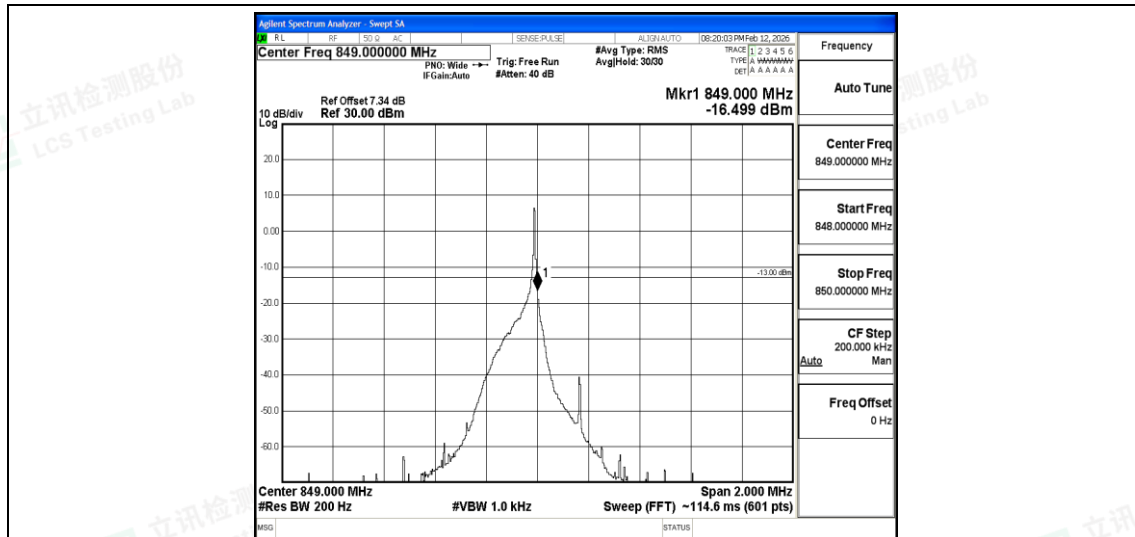


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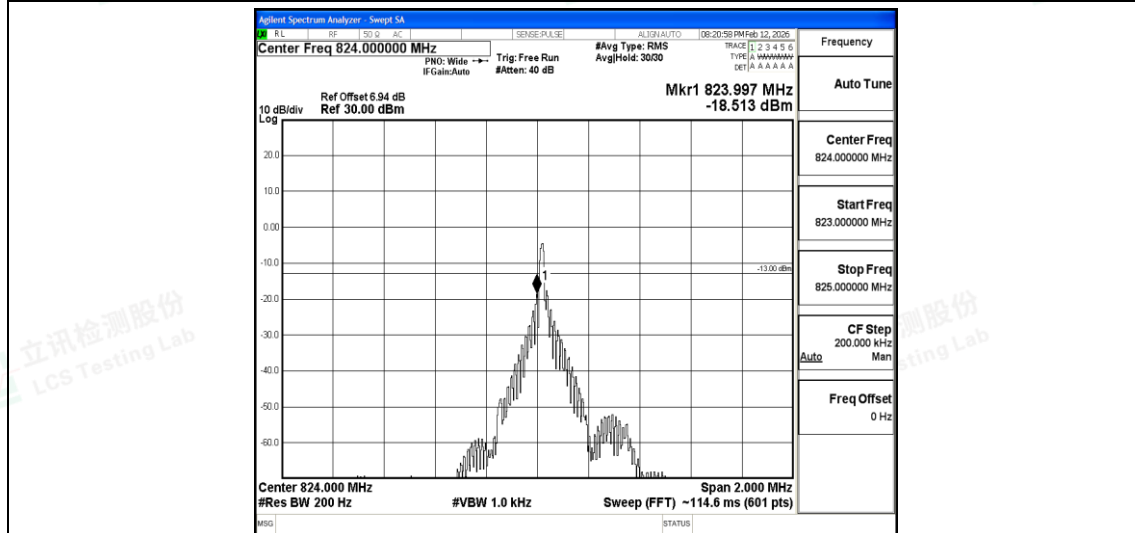
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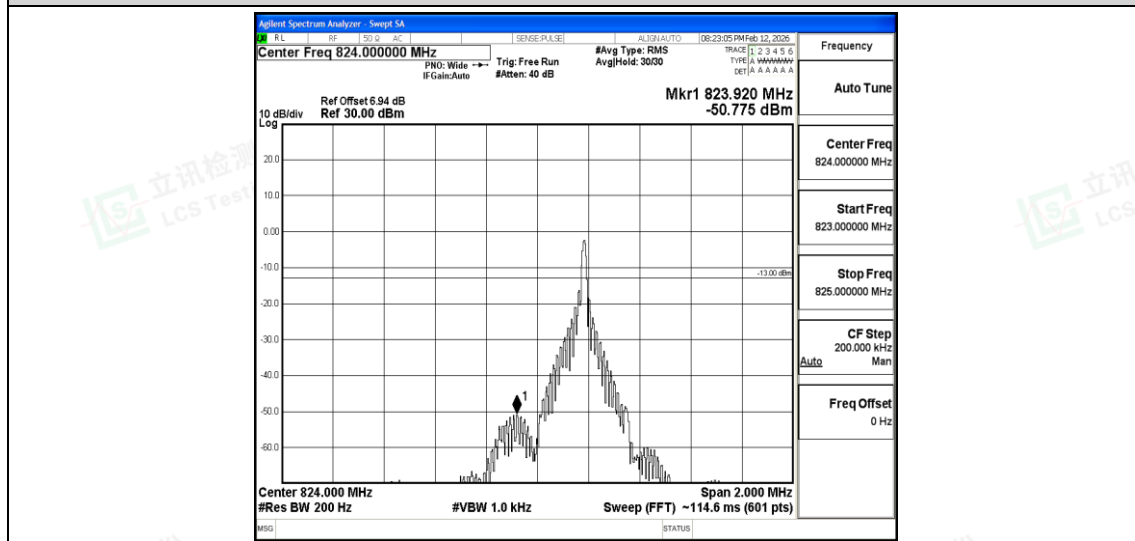
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Band5-Stand-Alone-NaN-QPSK-20649-1@47-3.75kHz--16.50-PASS



Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz--18.51-PASS



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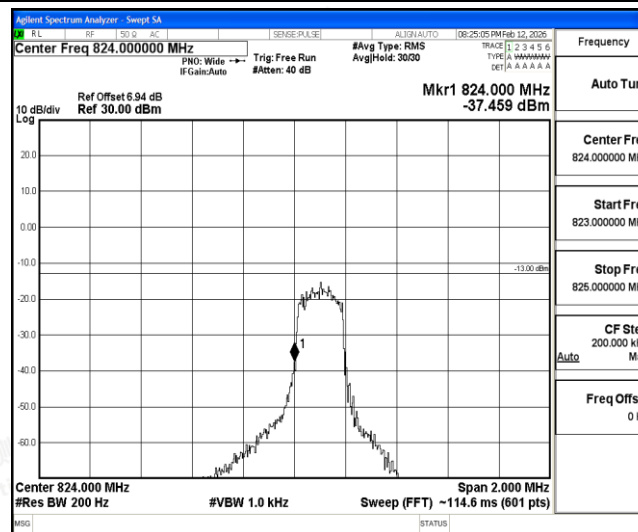
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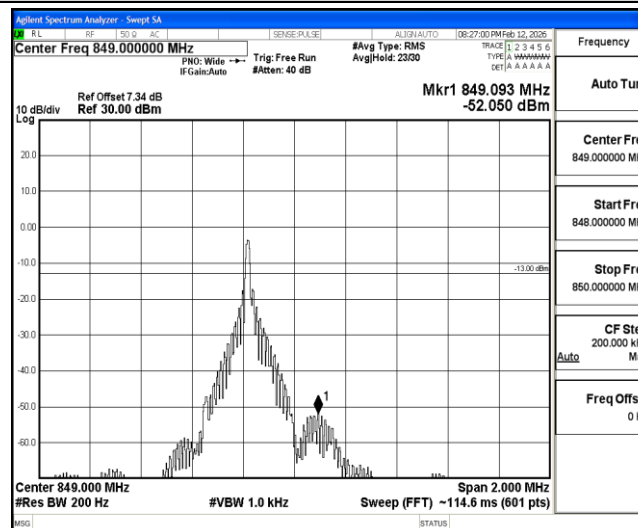
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Band5-Stand-Alone-NaN-BPSK-20401-1@11-15kHz--50.77-PASS



Band5-Stand-Alone-NaN-BPSK-20401-12@0-15kHz--37.46-PASS



Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz--52.49-PASS

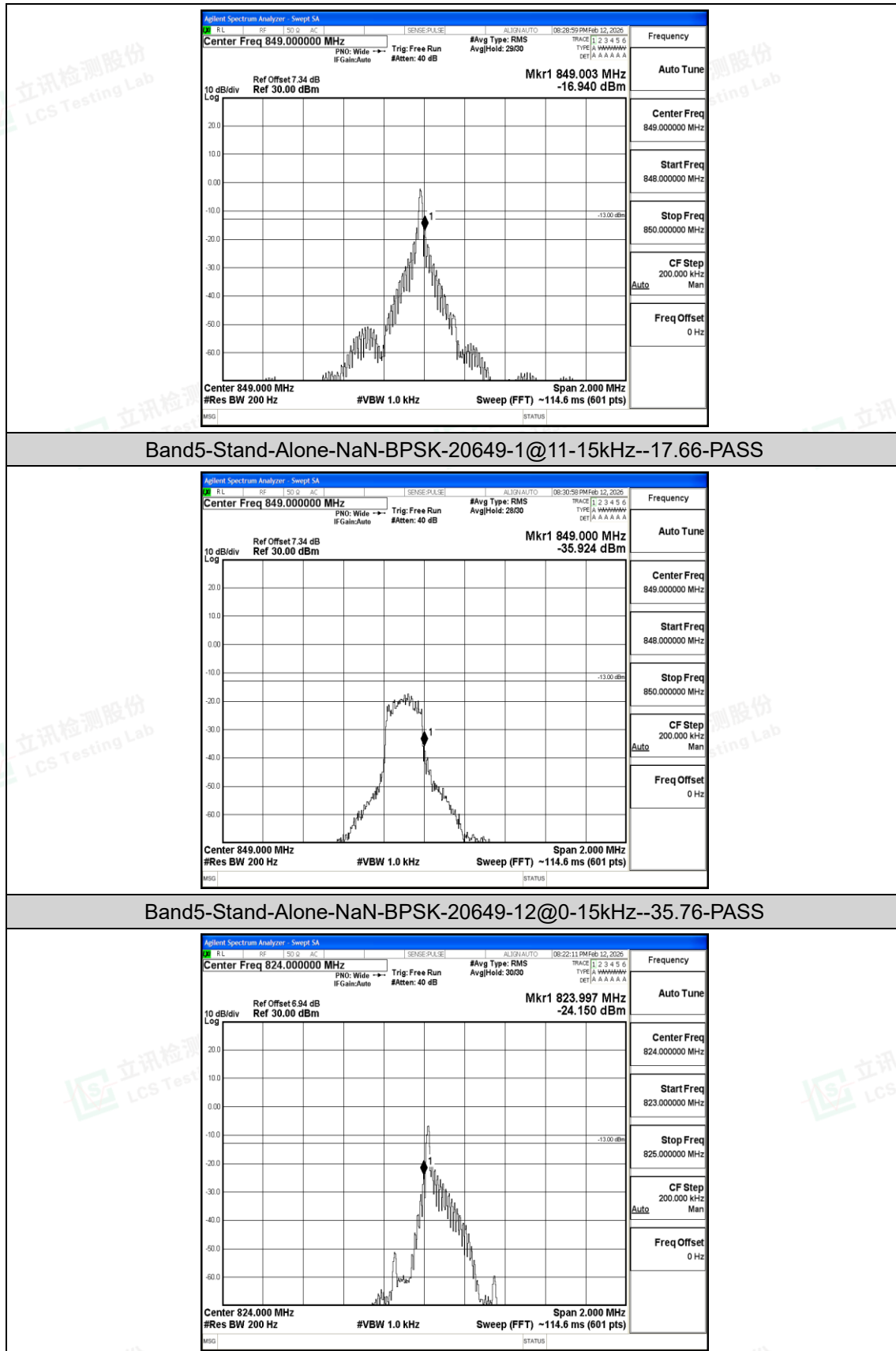


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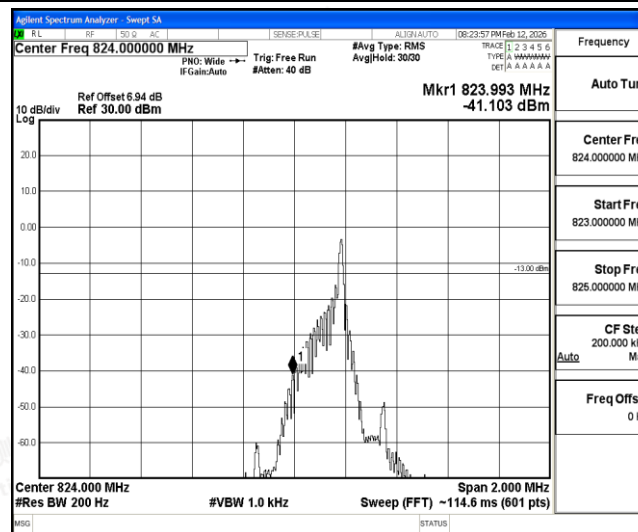
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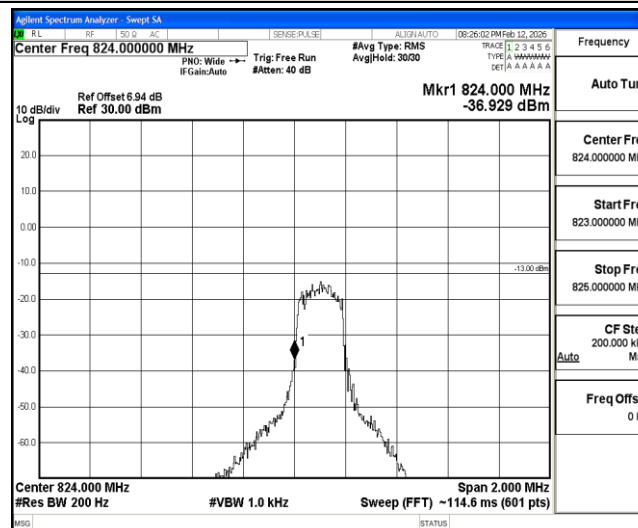
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Band5-Stand-Alone-NaN-QPSK-20401-1@0-15kHz--24.15-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1@11-15kHz--41.10-PASS



Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz--36.93-PASS

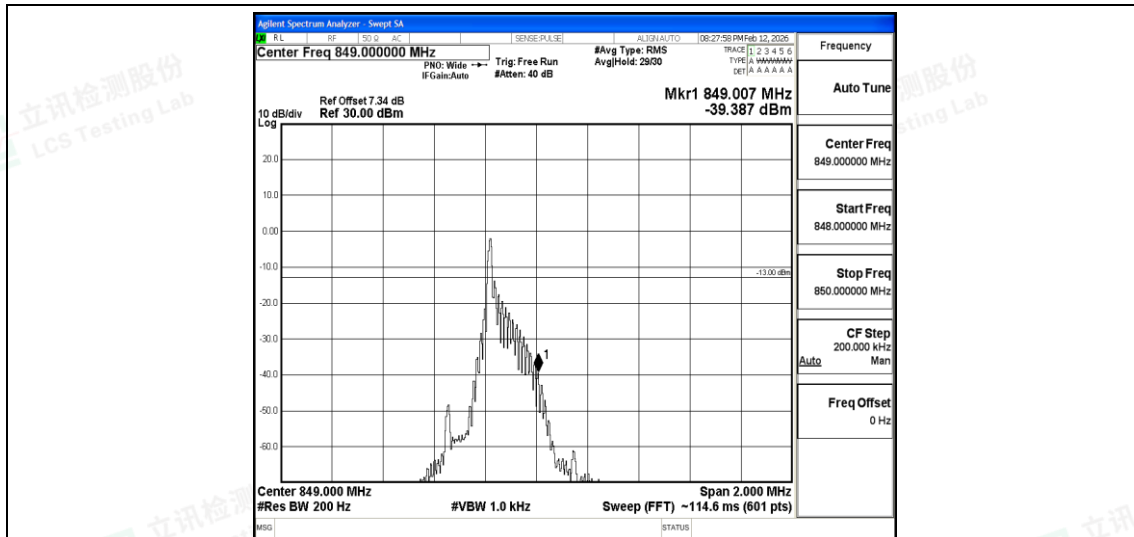


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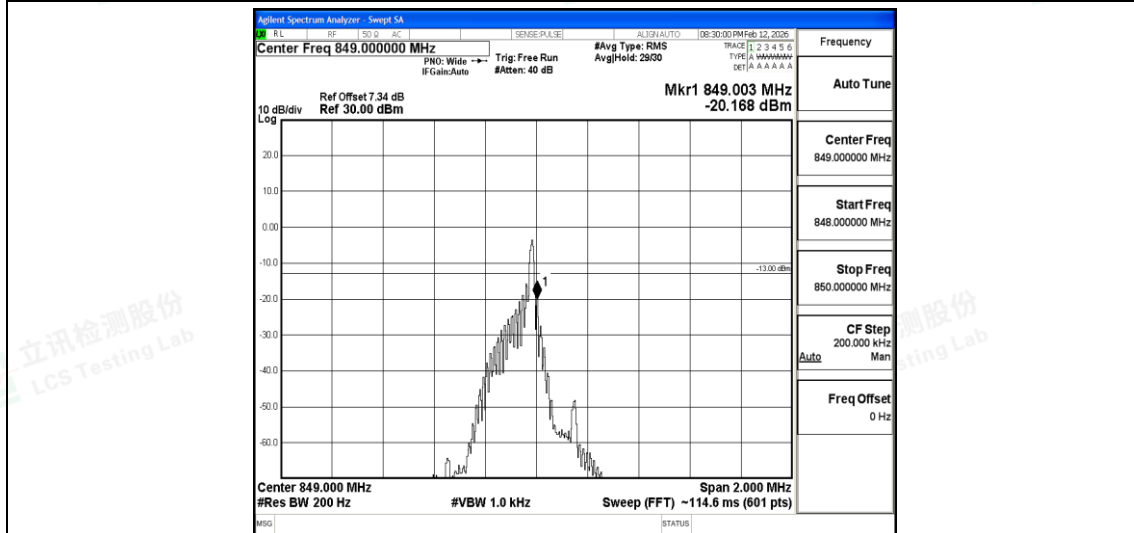
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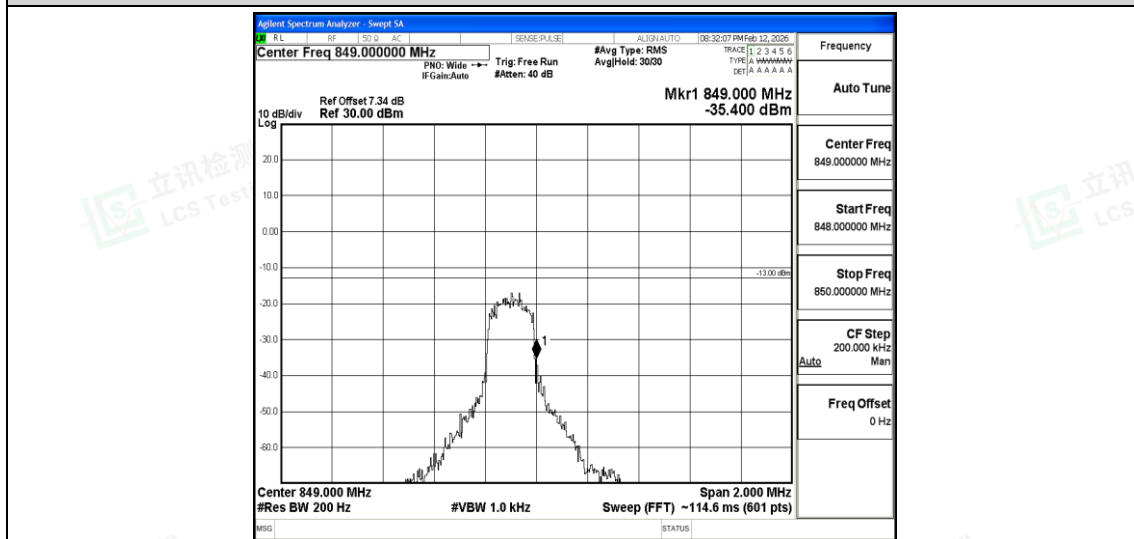
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Band5-Stand-Alone-NaN-QPSK-20649-1@0-15kHz--39.16-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@11-15kHz--19.53-PASS



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Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz--34.78-PASS





D.5 Conducted Spurious Emission for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	30	1000	30~1000MHz@-37.58dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	1000	5000	1000~5000MHz@-41.76dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	5000	12000	5000~12000MHz@-59.12dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	12000	26500	12000~26500MHz@-44.33dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	30	1000	30~1000MHz@-37.81dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	1000	5000	1000~5000MHz@-42.2dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	5000	12000	5000~12000MHz@-59.26dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	12000	26500	12000~26500MHz@-44.27dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	30	1000	30~1000MHz@-36.91dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	1000	5000	1000~5000MHz@-41.72dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	5000	12000	5000~12000MHz@-58.88dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	12000	26500	12000~26500MHz@-43.85dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	30	1000	30~1000MHz@-37.04dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	1000	5000	1000~5000MHz@-41.47dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	5000	12000	5000~12000MHz@-58.88dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	12000	26500	12000~26500MHz@-43.89dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	30	1000	30~1000MHz@-35.92dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	1000	5000	1000~5000MHz@-41.54dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	5000	12000	5000~12000MHz@-58.92dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	12000	26500	12000~26500MHz@-43.74dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	30	1000	30~1000MHz@-36.55dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	1000	5000	1000~5000MHz@-41.12dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	5000	12000	5000~12000MHz@-58.82dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	12000	26500	12000~26500MHz@-43.88dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	30	1000	30~1000MHz@-37.49dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	1000	5000	1000~5000MHz@-43.61dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	5000	12000	5000~12000MHz@-59.36dBm	-13	PASS



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Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	12000	26500	12000~26500MHz@-44.37dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	30	1000	30~1000MHz@-37.76dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	1000	5000	1000~5000MHz@-43.56dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	5000	12000	5000~12000MHz@-59.28dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	12000	26500	12000~26500MHz@-44.22dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	30	1000	30~1000MHz@-36.83dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	1000	5000	1000~5000MHz@-42.81dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	5000	12000	5000~12000MHz@-59.02dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	12000	26500	12000~26500MHz@-44.06dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	30	1000	30~1000MHz@-37.18dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	1000	5000	1000~5000MHz@-43.02dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	5000	12000	5000~12000MHz@-58.85dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	12000	26500	12000~26500MHz@-43.93dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	30	1000	30~1000MHz@-37.03dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	1000	5000	1000~5000MHz@-43.08dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	5000	12000	5000~12000MHz@-58.86dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	12000	26500	12000~26500MHz@-43.87dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	30	1000	30~1000MHz@-36.78dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	1000	5000	1000~5000MHz@-42.74dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	5000	12000	5000~12000MHz@-58.89dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	12000	26500	12000~26500MHz@-43.73dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	12@0	30	1000	30~1000MHz@-37.87dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	12@0	1000	5000	1000~5000MHz@-43.57dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	12@0	5000	12000	5000~12000MHz@-59.22dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	12@0	12000	26500	12000~26500MHz@-44.05dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	12@0	30	1000	30~1000MHz@-36.3dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	12@0	1000	5000	1000~5000MHz@-43.1dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	12@0	5000	12000	5000~12000MHz@-58.96dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	12@0	12000	26500	12000~26500MHz@-43.8dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	12@0	30	1000	30~1000MHz@-37.11dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	12@0	1000	5000	1000~5000MHz@-43.16dBm	-13	PASS



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Band5	Stand-Alone	15kHz	NaN	QPSK	20649	12@0	5000	12000	5000~12000MHz@-59.03dBm	-13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	12@0	12000	26500	12000~26500MHz@-43.9dBm	-13	PASS

