

FCC LTE Band Test Data

FCC ID : 2BFI8-TIQMINIM5

Company: : Jinan Ant Zhonglian Information Technology Co., Ltd.

EUT : TIQ mini M5

Model Number : TIQ mini M5

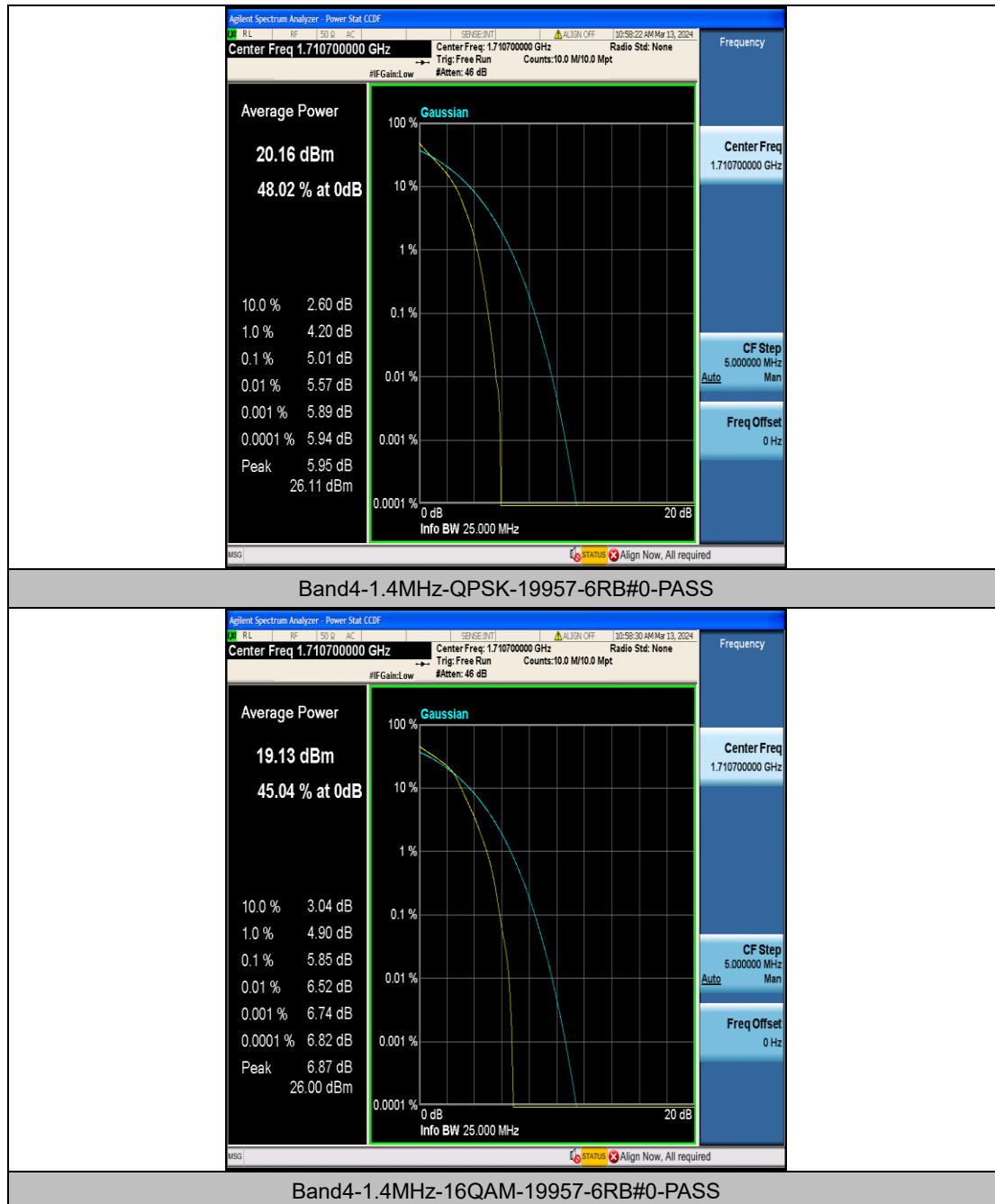
Reviewed By : Eric Wang

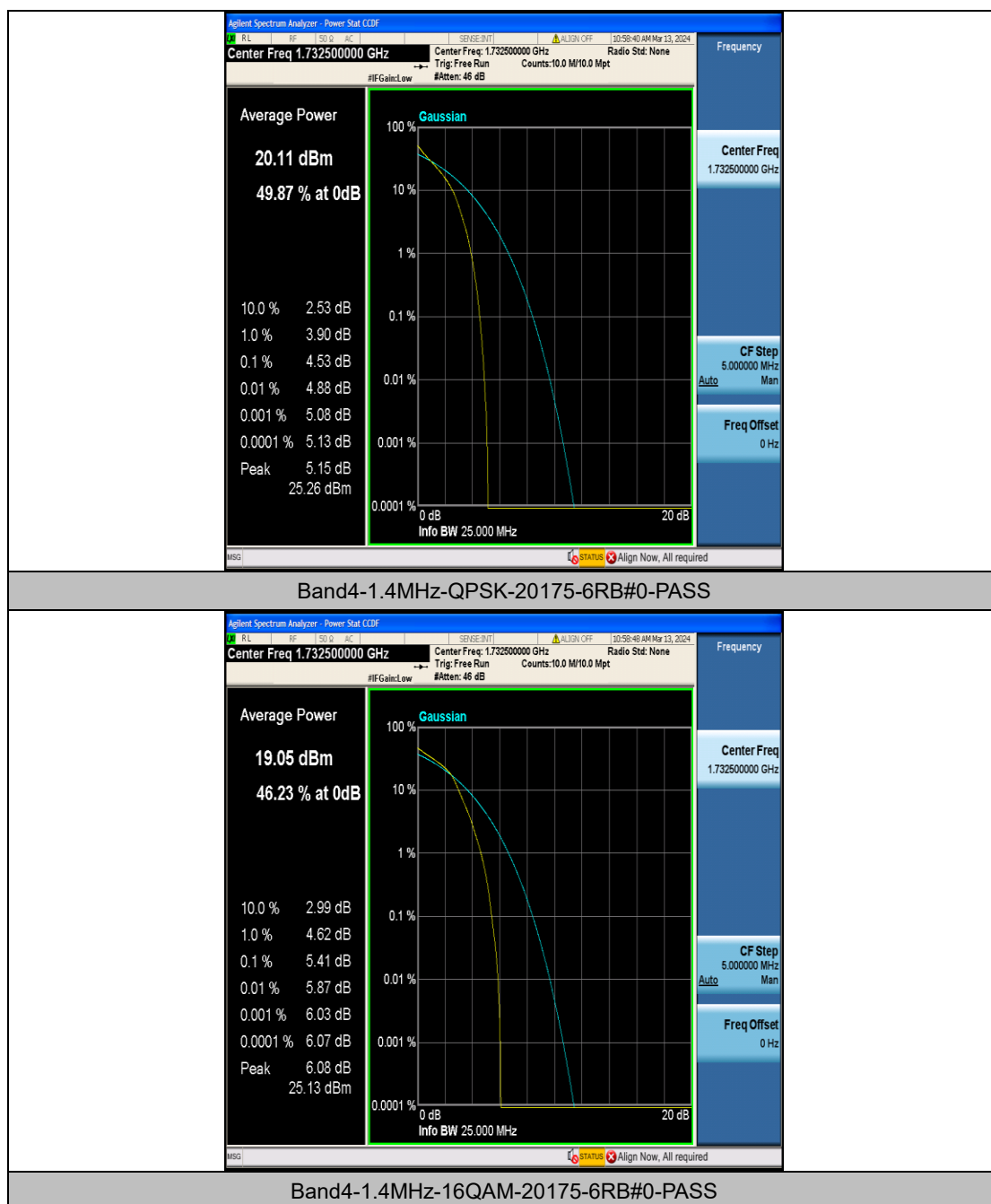
Appendix B: Peak-to-Average Ratio(CCDF)

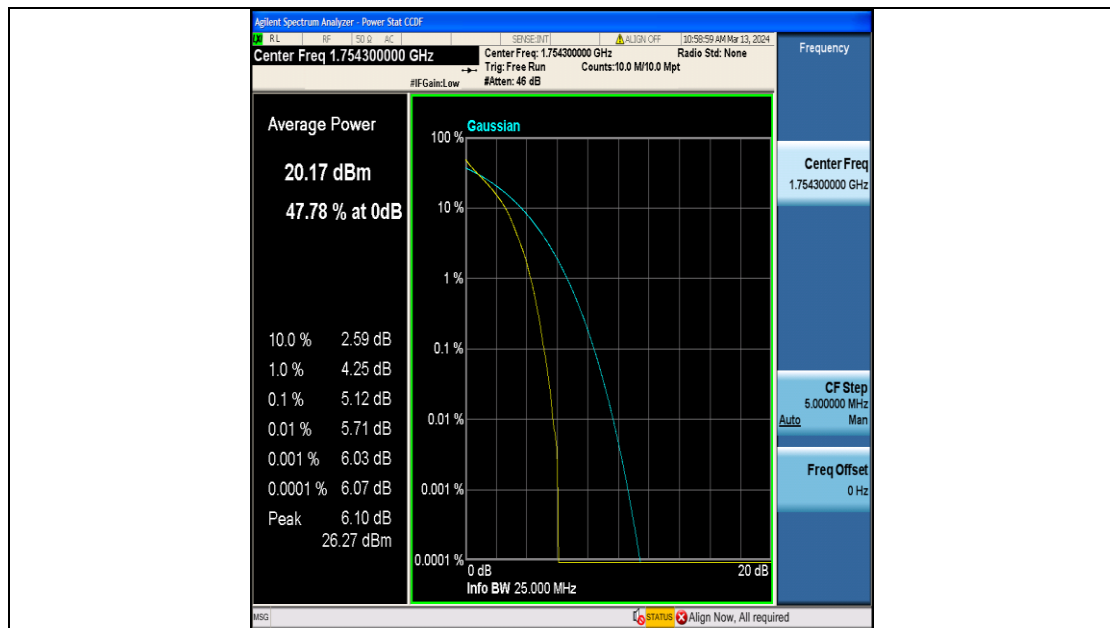
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	5.01	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.85	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.53	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.41	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.12	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.97	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.07	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.95	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.62	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.54	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.21	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.04	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.12	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.92	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.72	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.57	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.27	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.02	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.09	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.89	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.77	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.58	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.24	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	6.02	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.32	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.97	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.11	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.82	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.49	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.13	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.19	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.98	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.13	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.91	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.32	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.12	13	PASS

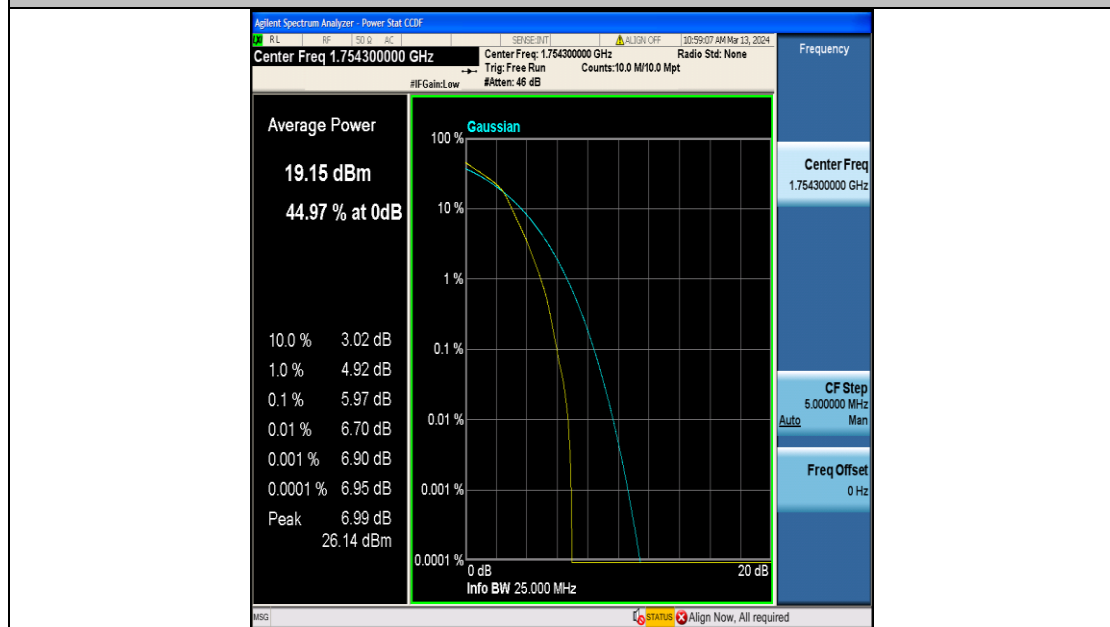
Test Graphs



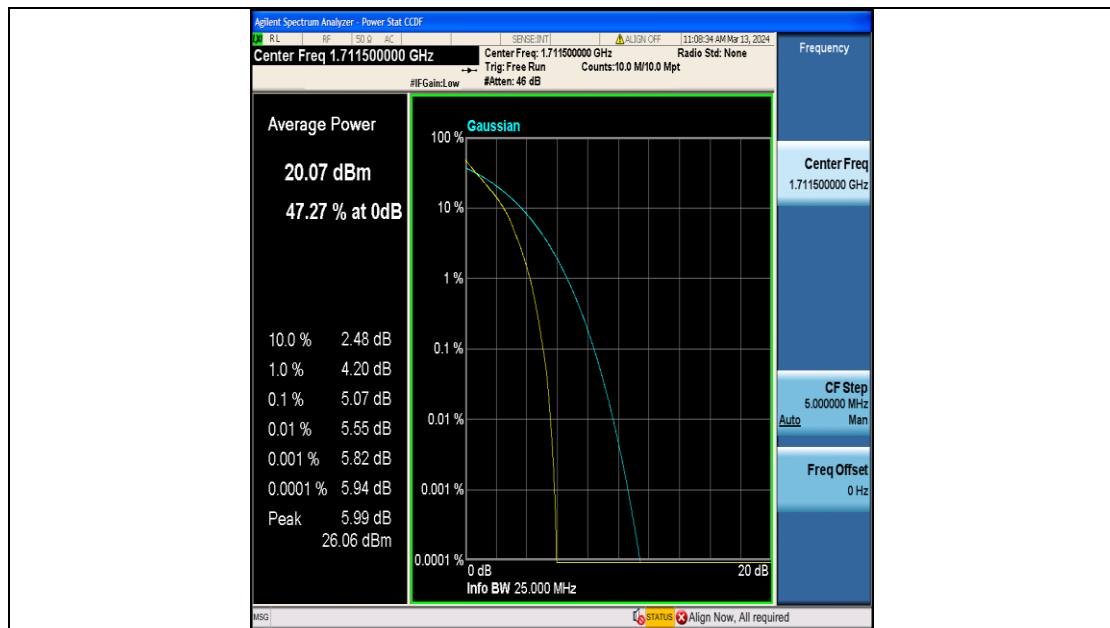




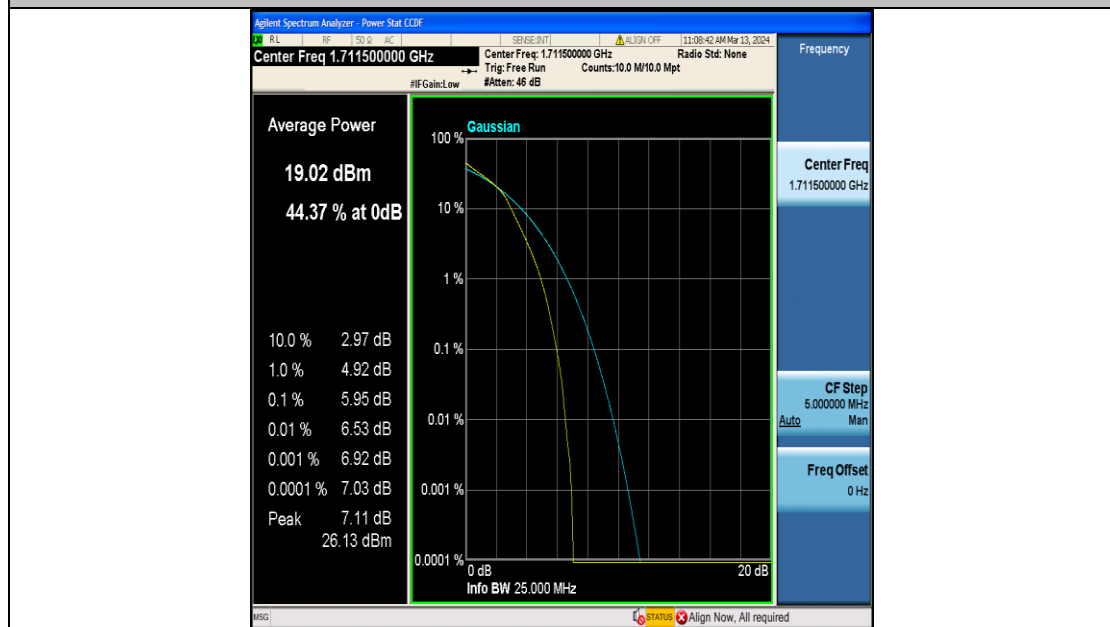
Band4-1.4MHz-QPSK-20393-6RB#0-PASS



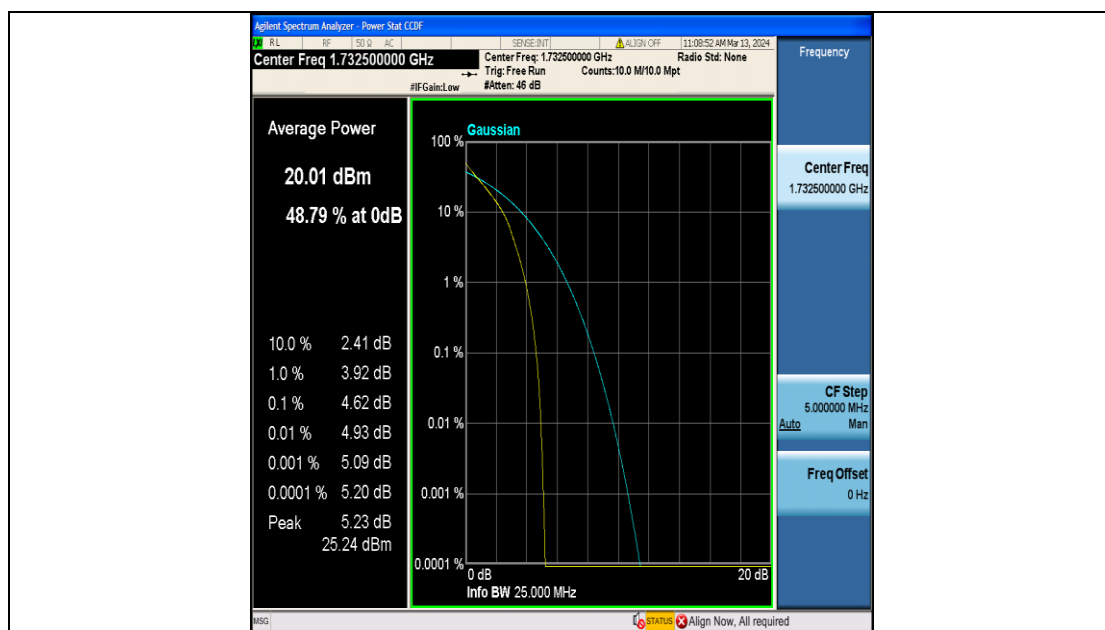
Band4-1.4MHz-16QAM-20393-6RB#0-PASS



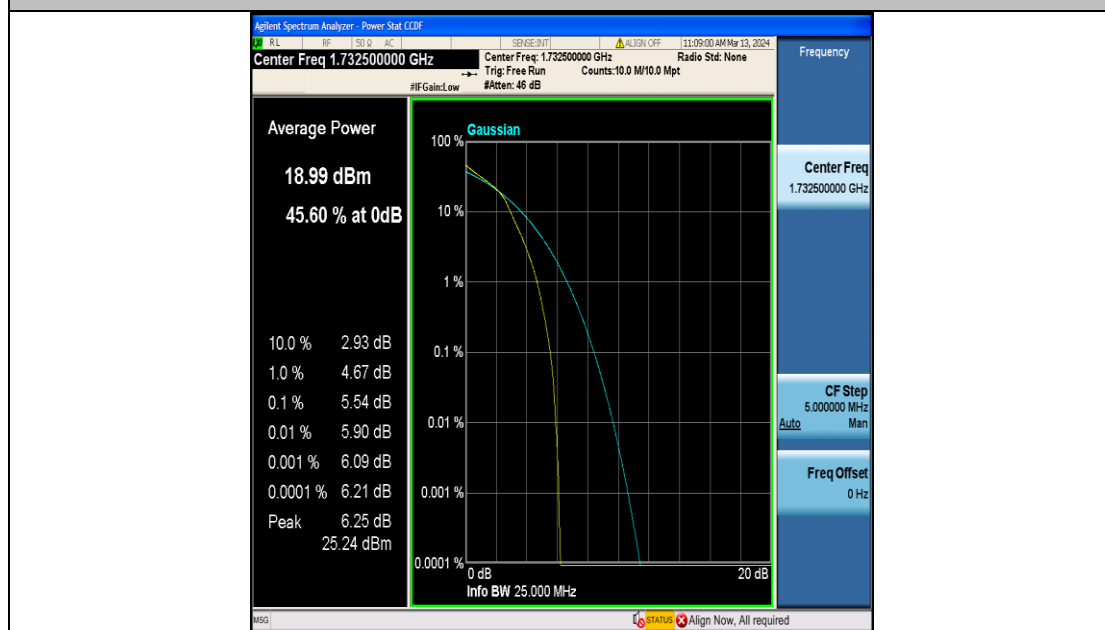
Band4-3MHz-QPSK-19965-15RB#0-PASS



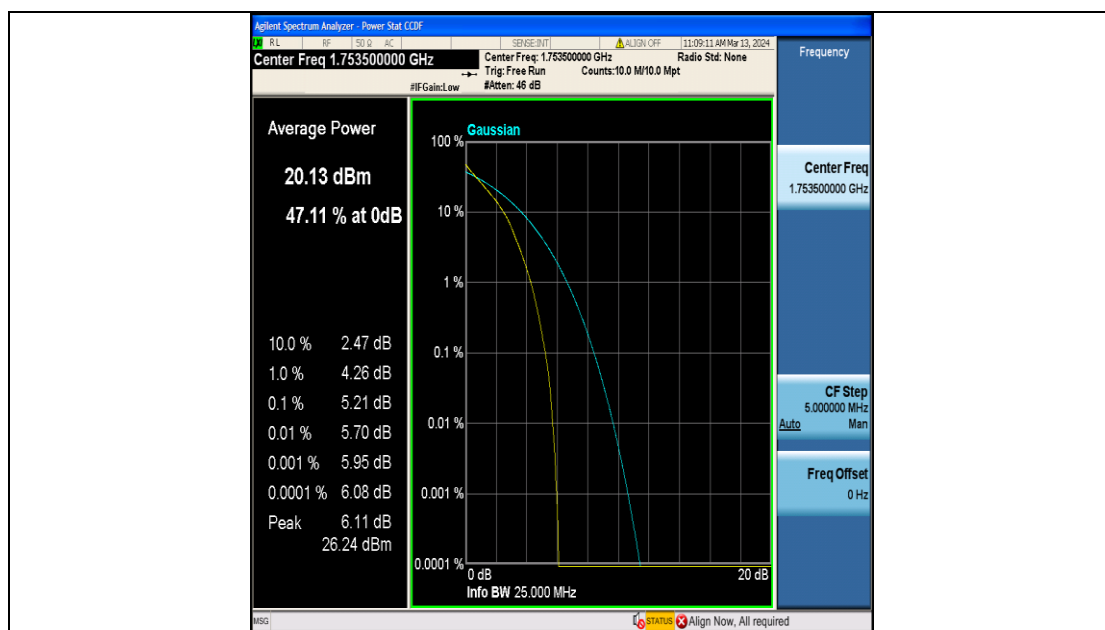
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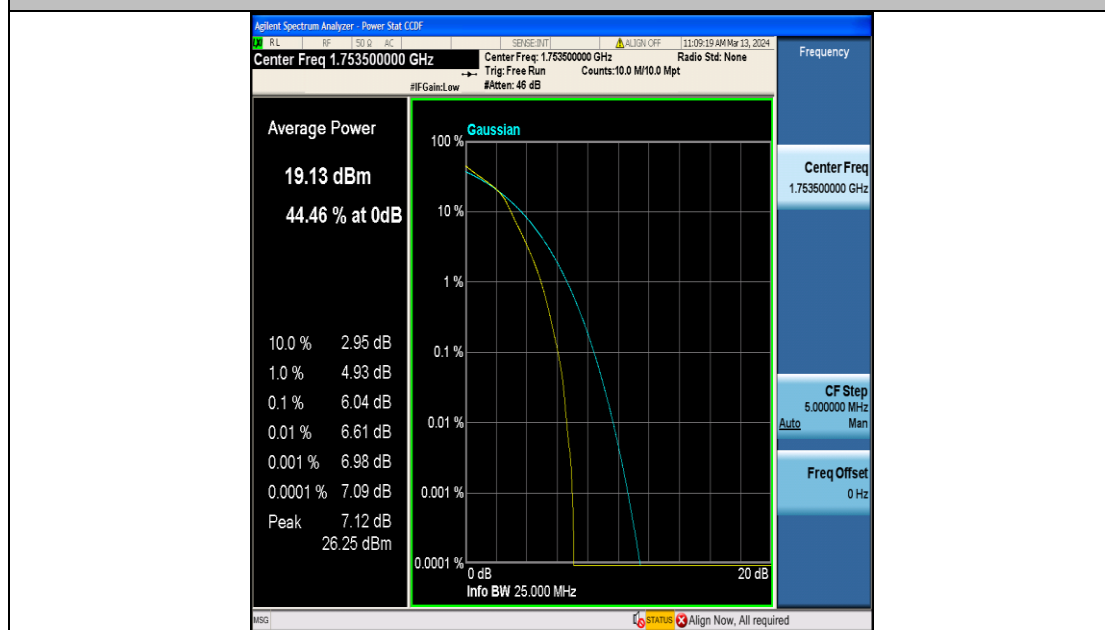
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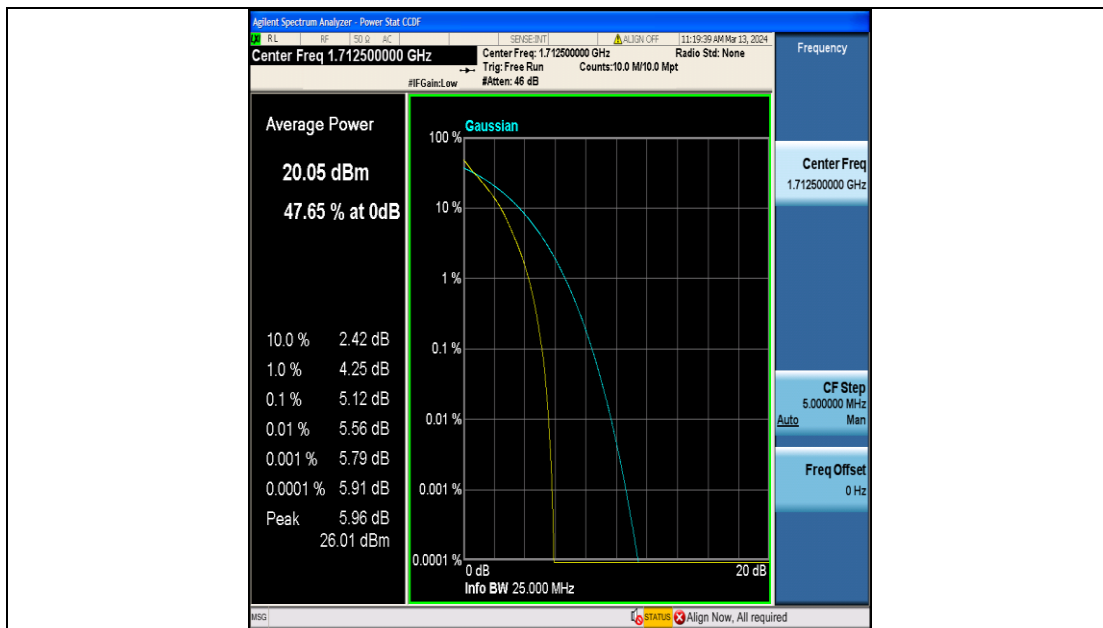
Band4-3MHz-16QAM-20175-15RB#0-PASS



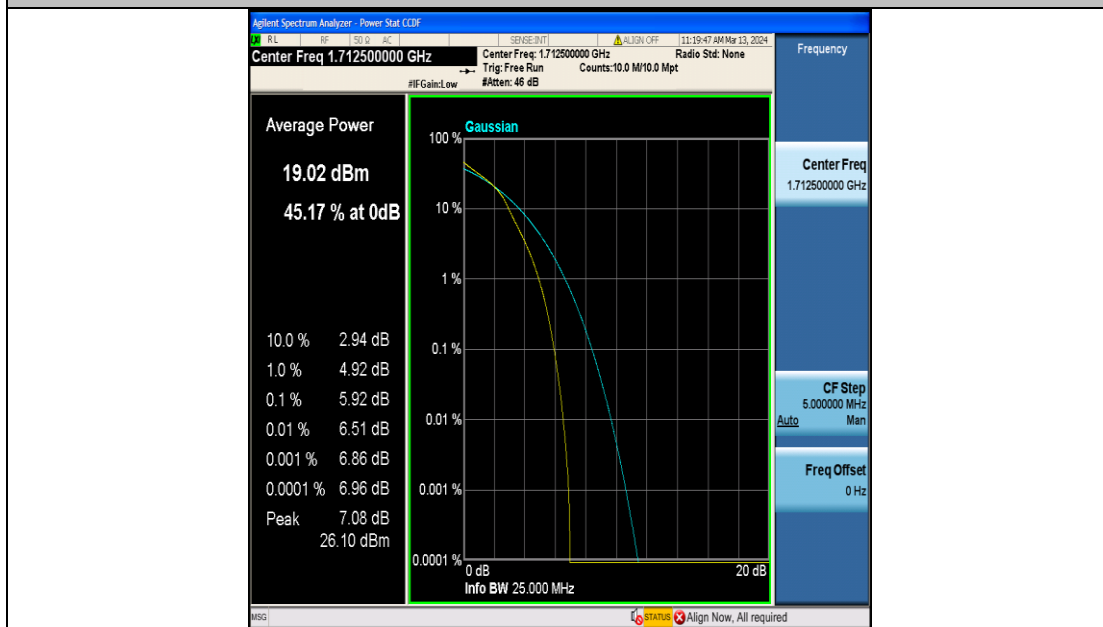
Band4-3MHz-QPSK-20385-15RB#0-PASS



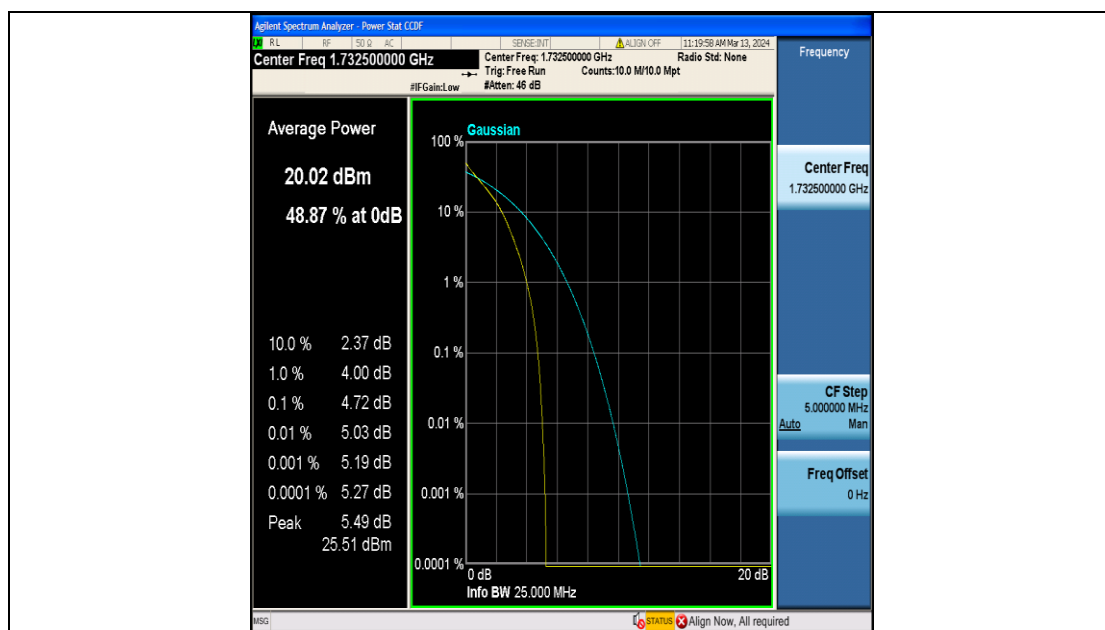
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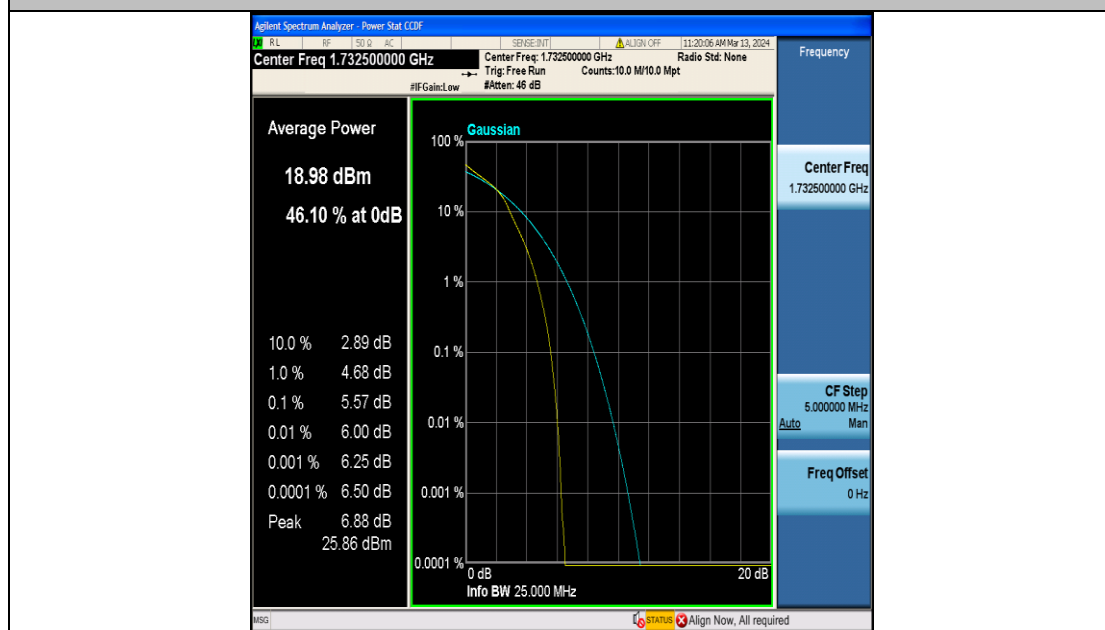
Band4-5MHz-QPSK-19975-25RB#0-PASS



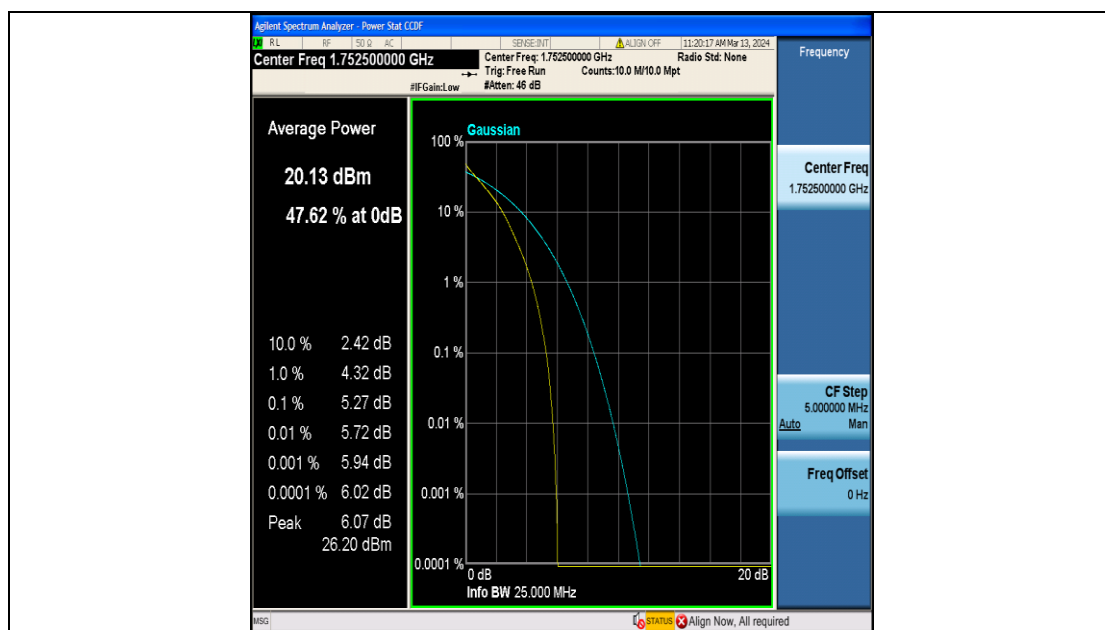
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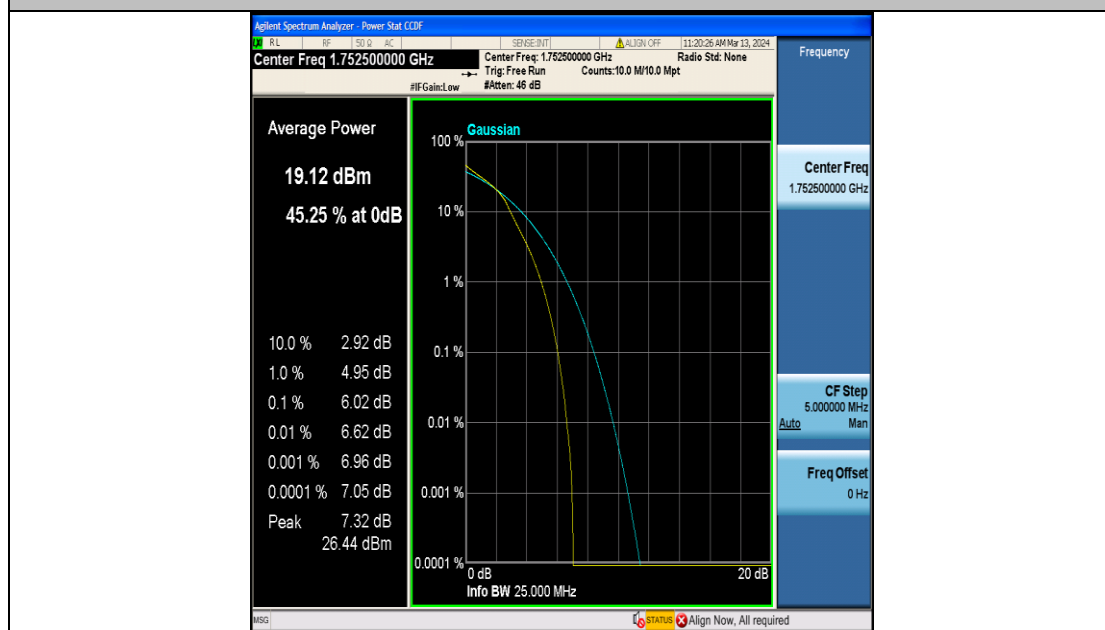
Band4-5MHz-QPSK-20175-25RB#0-PASS



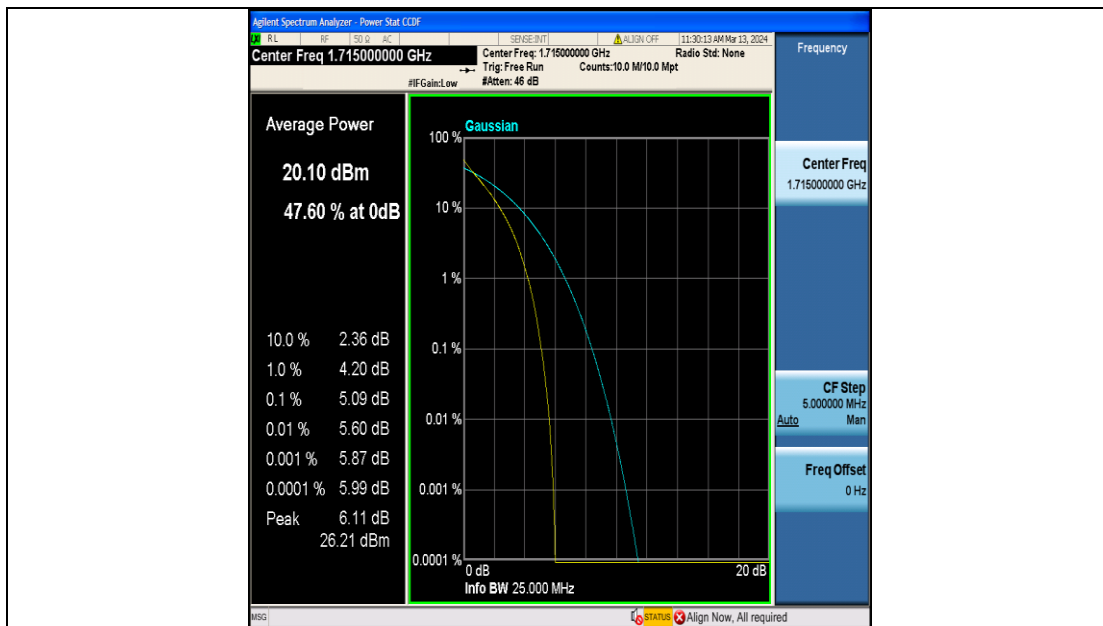
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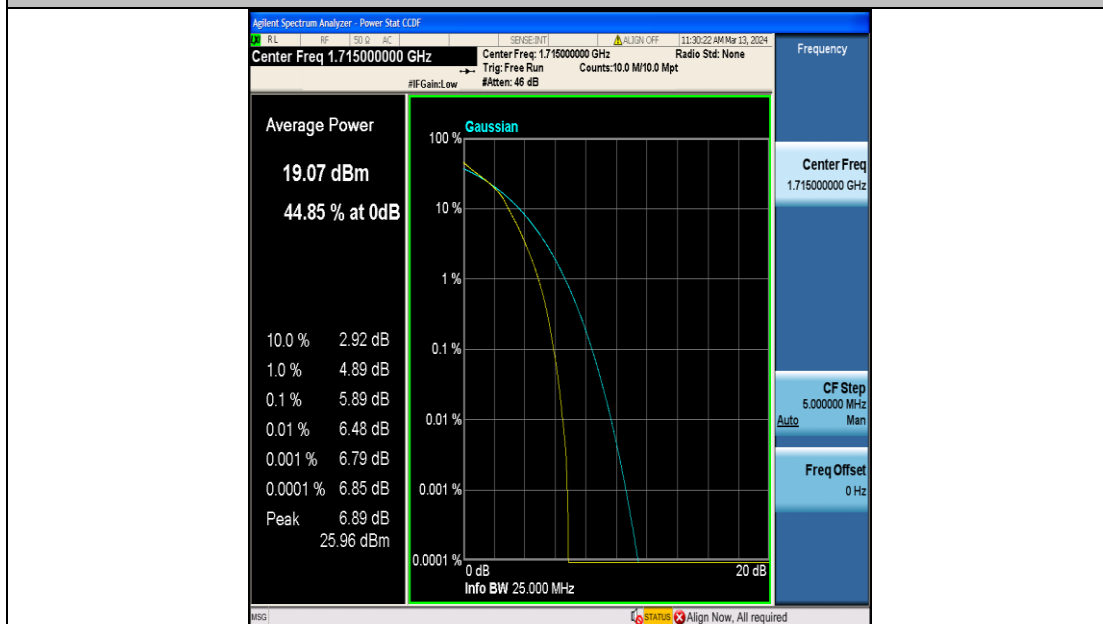
Band4-5MHz-QPSK-20375-25RB#0-PASS



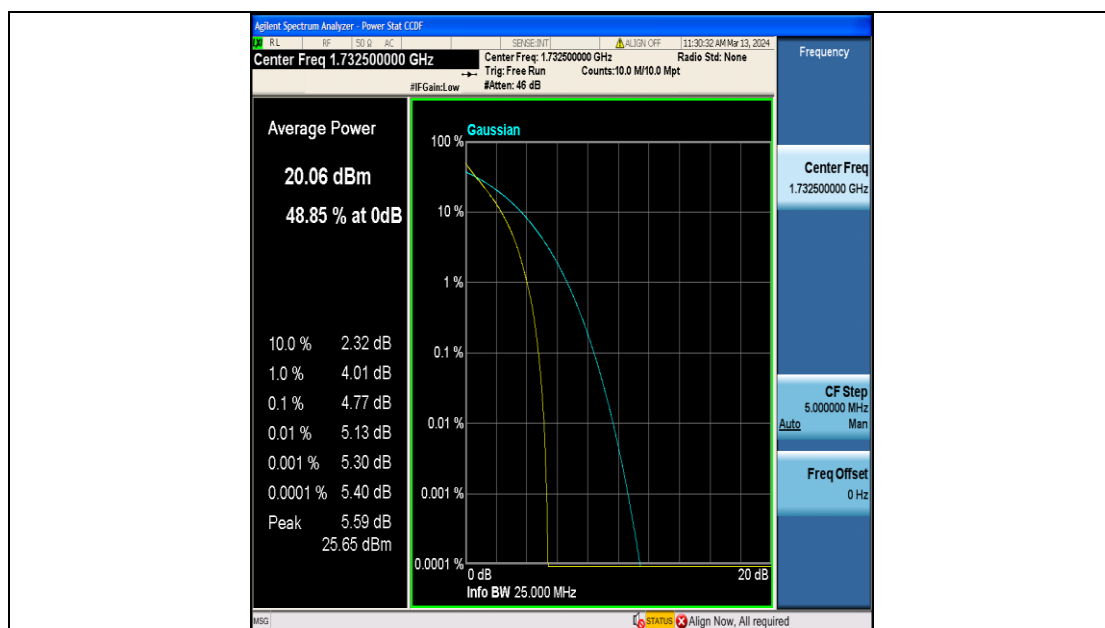
Band4-5MHz-16QAM-20375-25RB#0-PASS



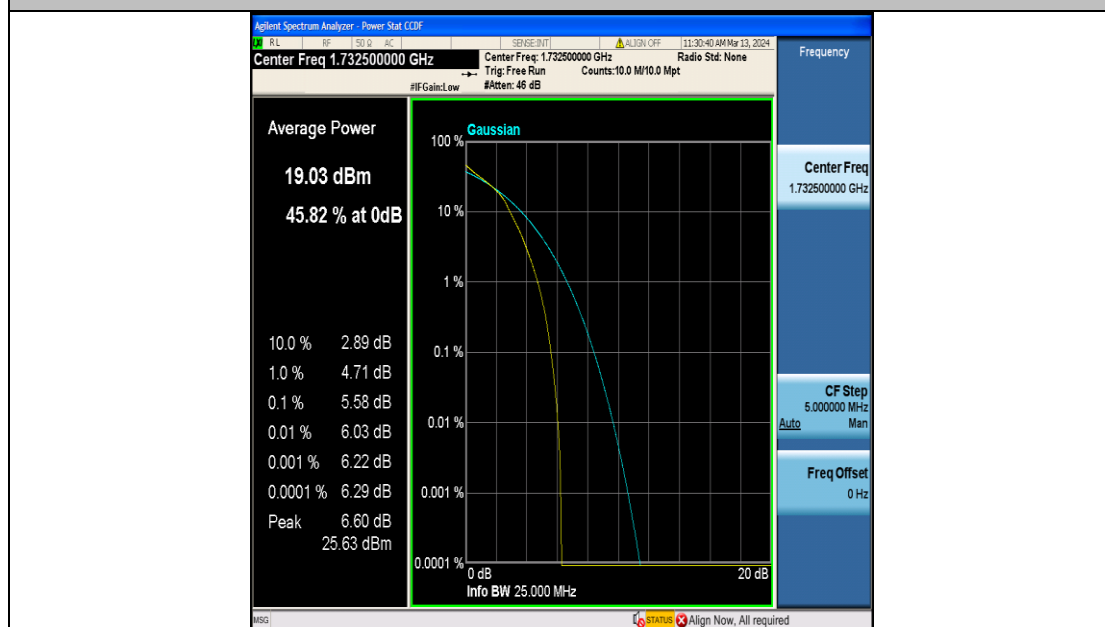
Band4-10MHz-QPSK-20000-50RB#0-PASS



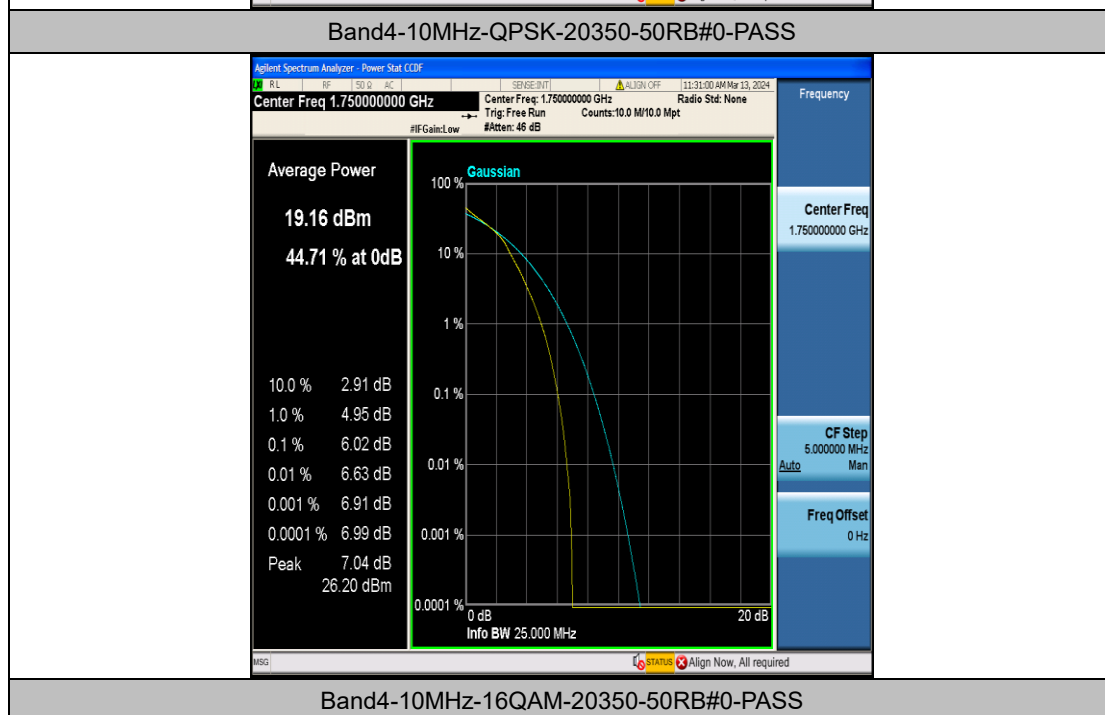
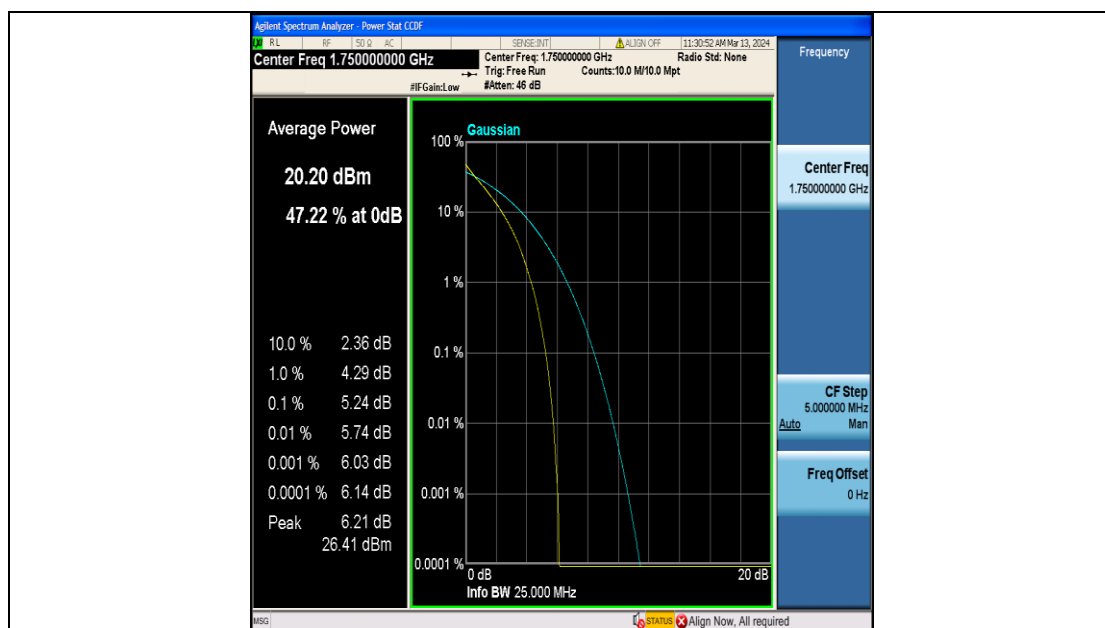
Band4-10MHz-16QAM-20000-50RB#0-PASS

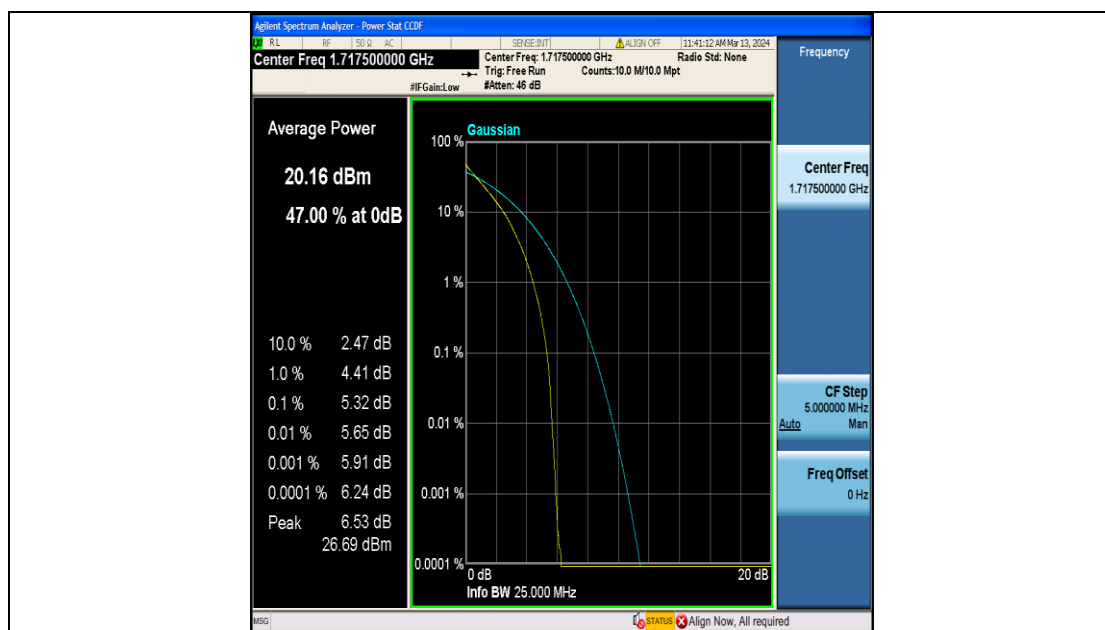


Band4-10MHz-QPSK-20175-50RB#0-PASS

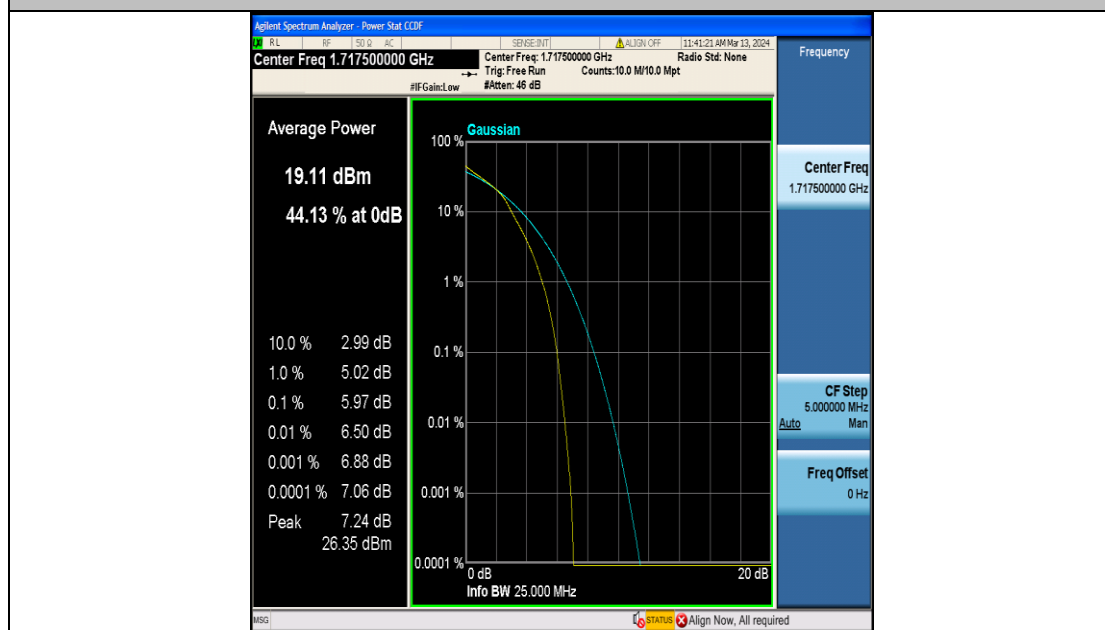


Band4-10MHz-16QAM-20175-50RB#0-PASS

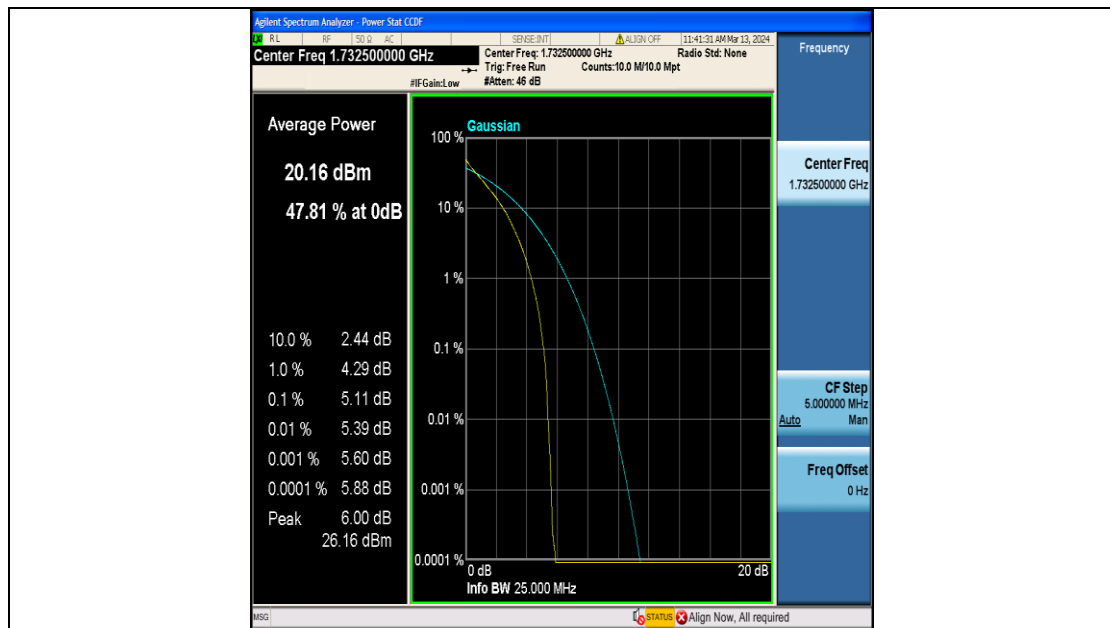




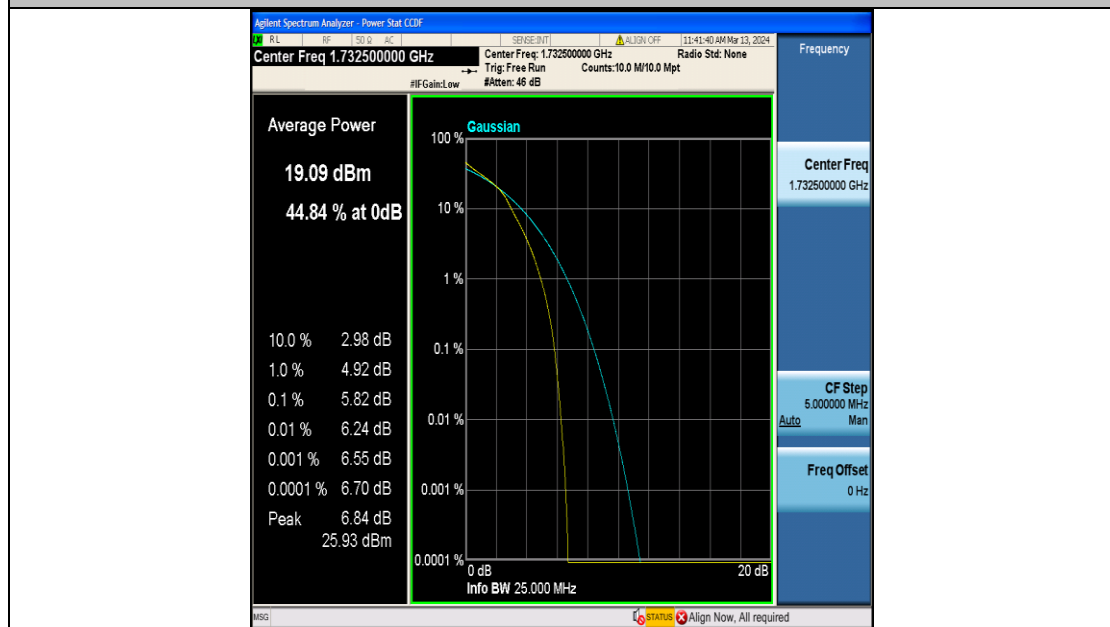
Band4-15MHz-QPSK-20025-75RB#0-PASS



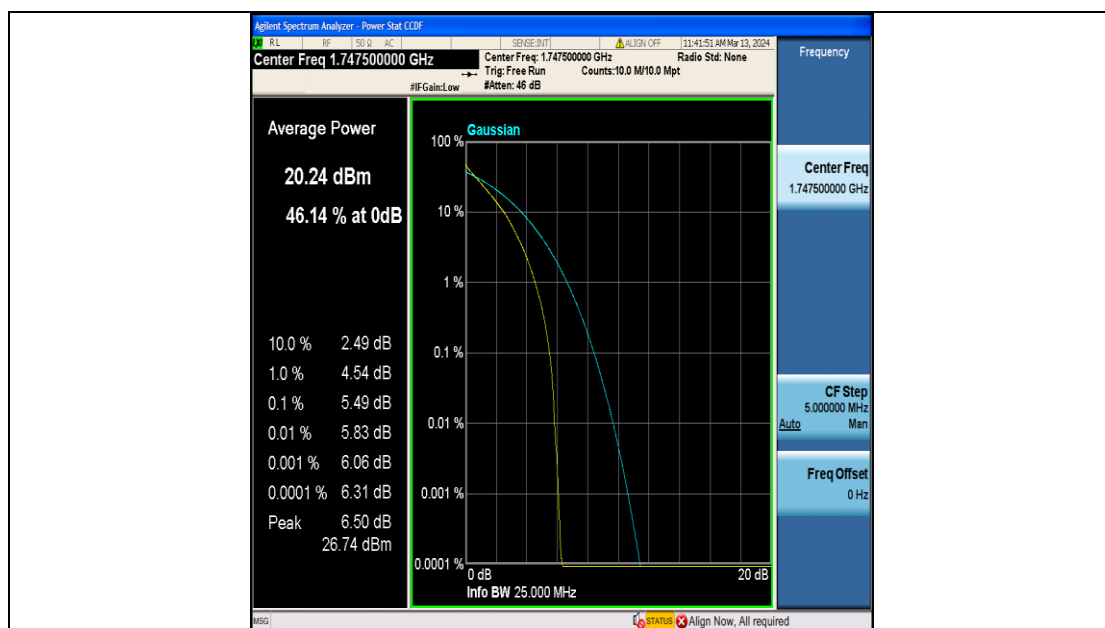
Band4-15MHz-16QAM-20025-75RB#0-PASS



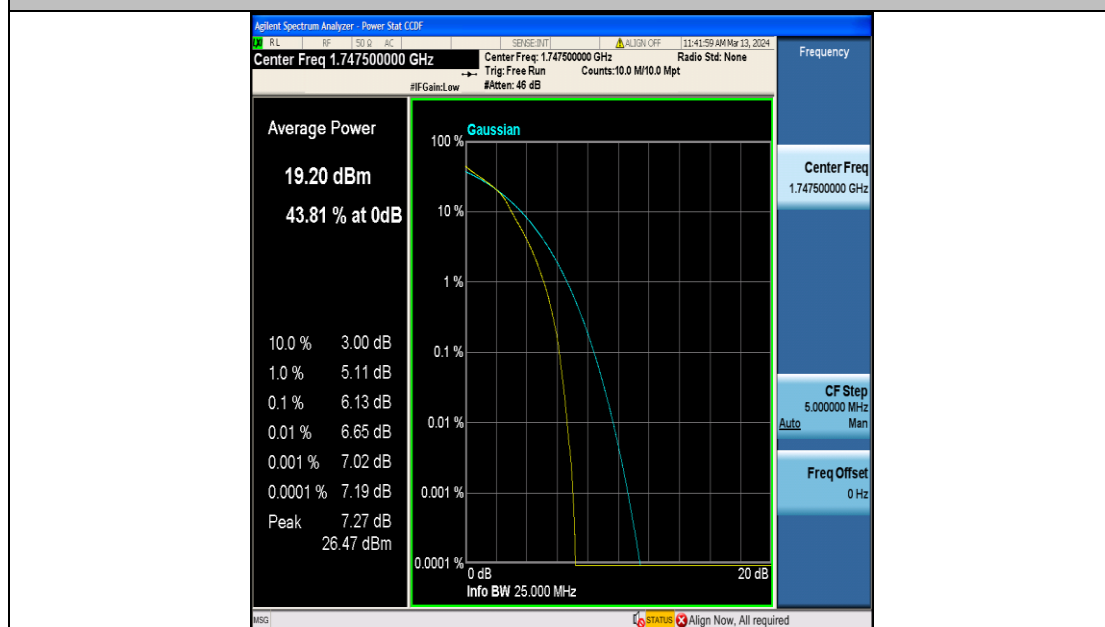
Band4-15MHz-QPSK-20175-75RB#0-PASS



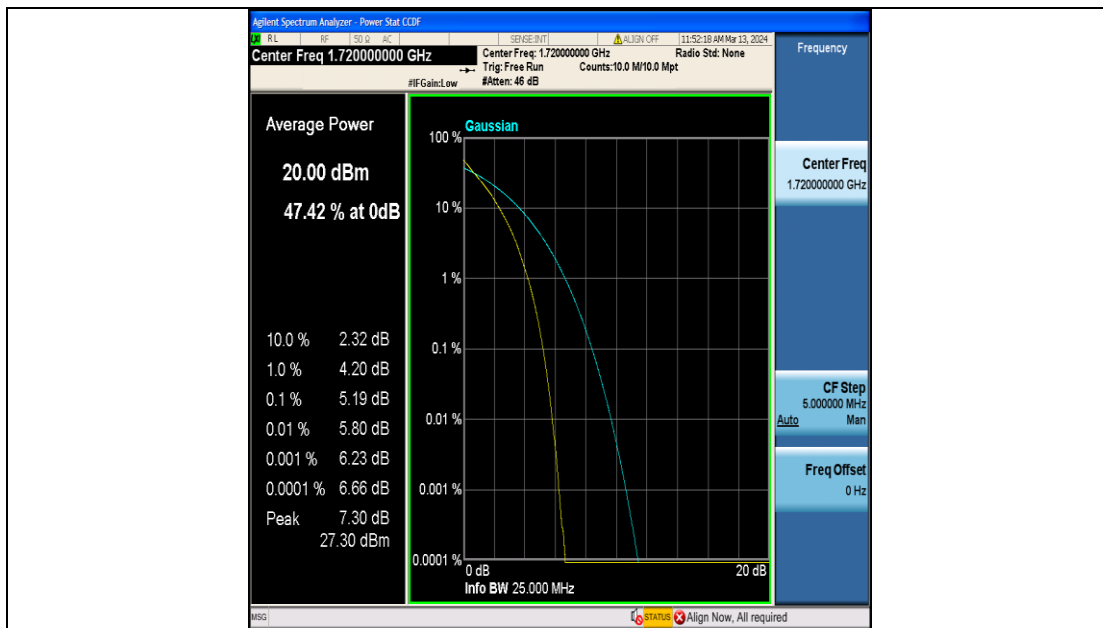
Band4-15MHz-16QAM-20175-75RB#0-PASS



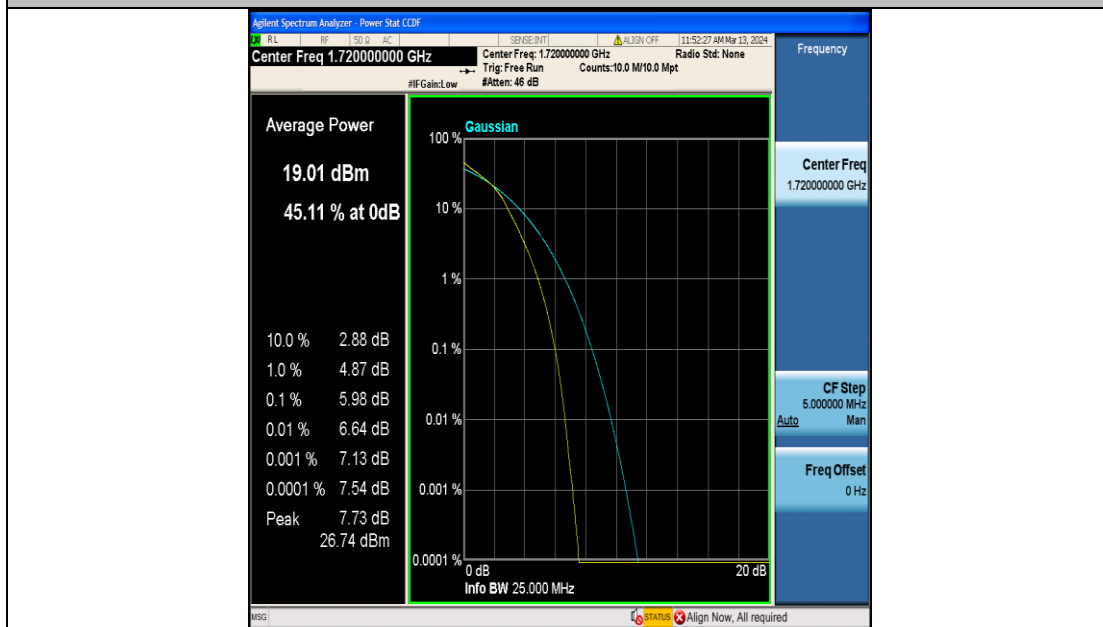
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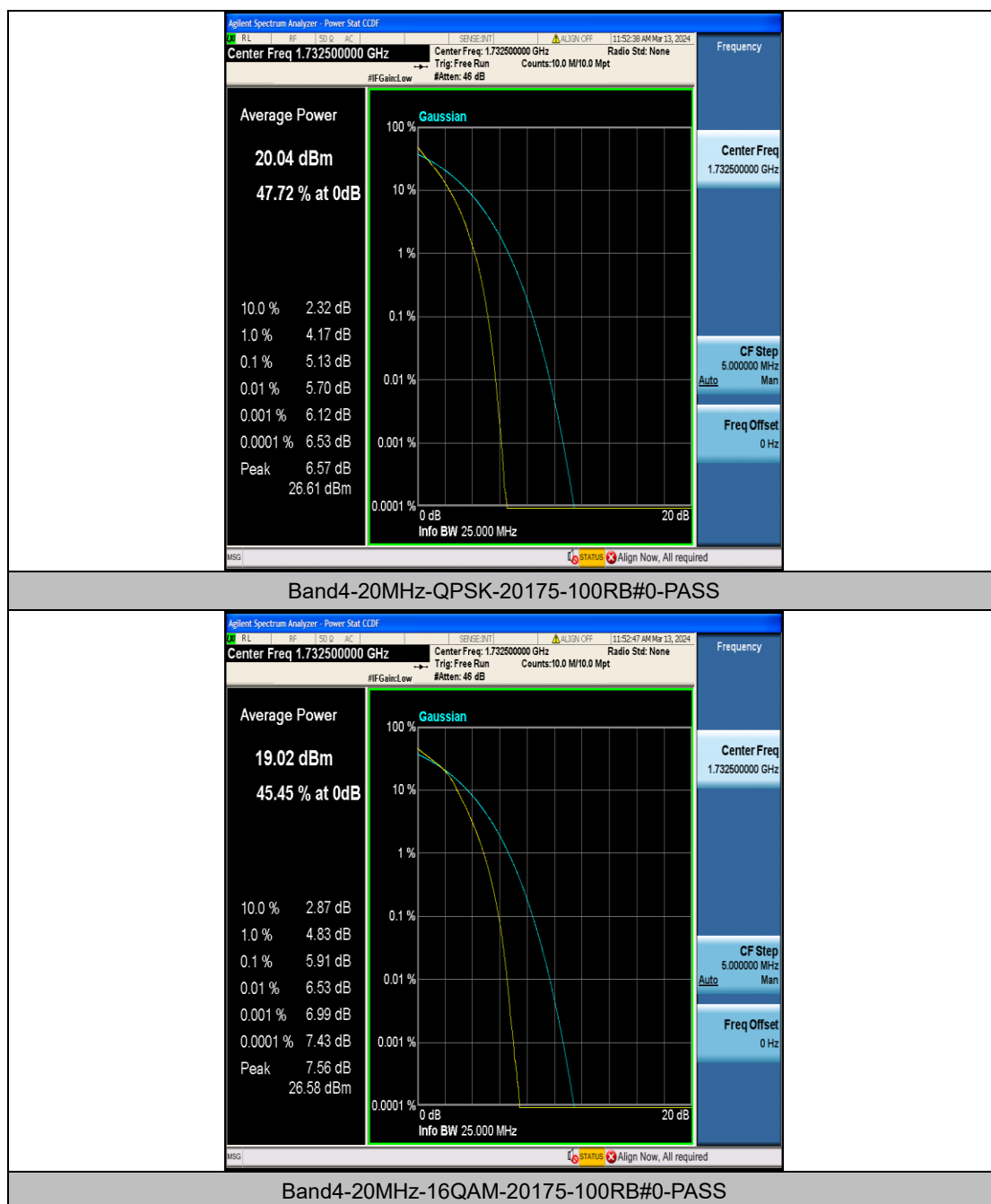
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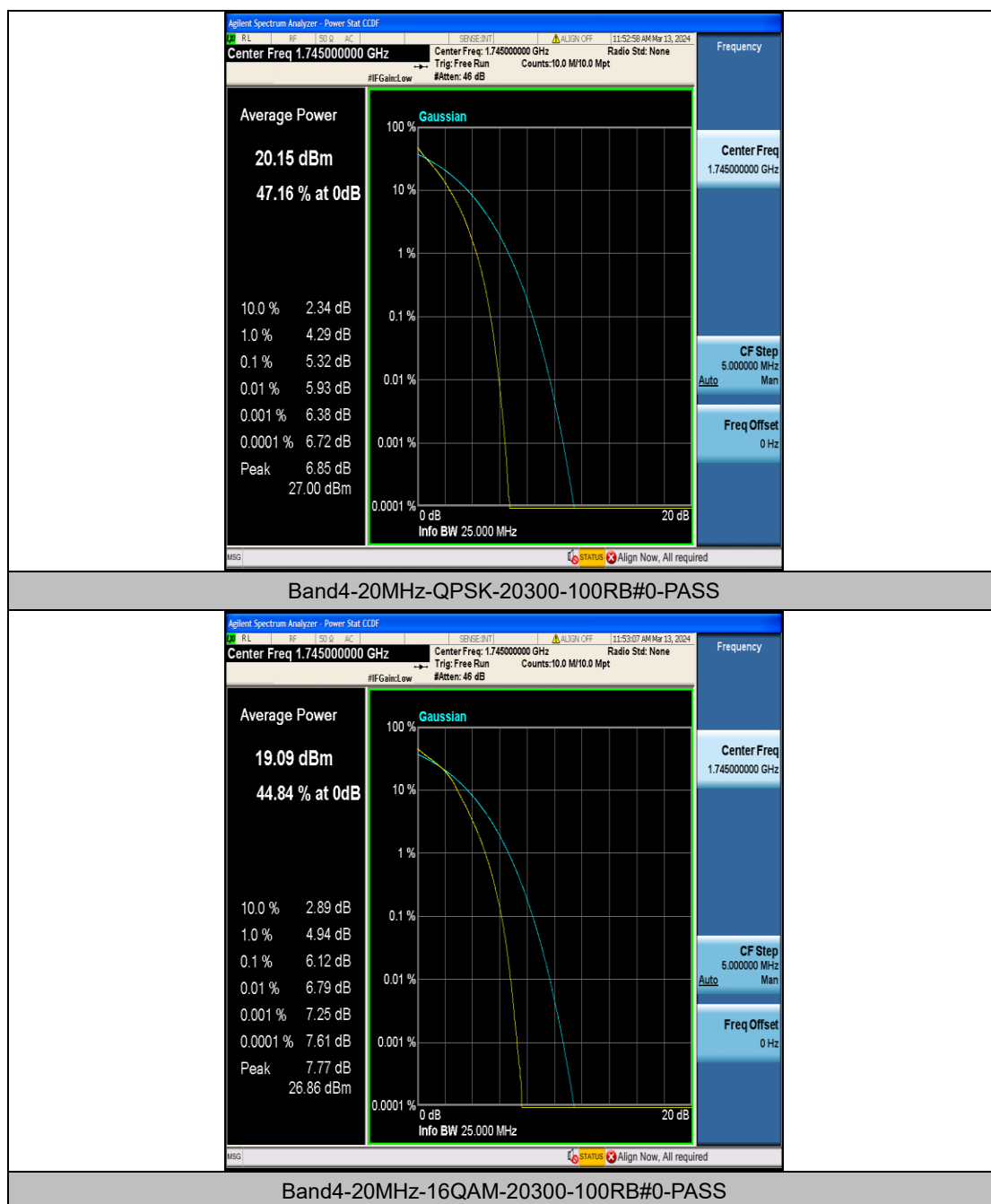


Band4-20MHz-QPSK-20050-100RB#0-PASS



Band4-20MHz-16QAM-20050-100RB#0-PASS





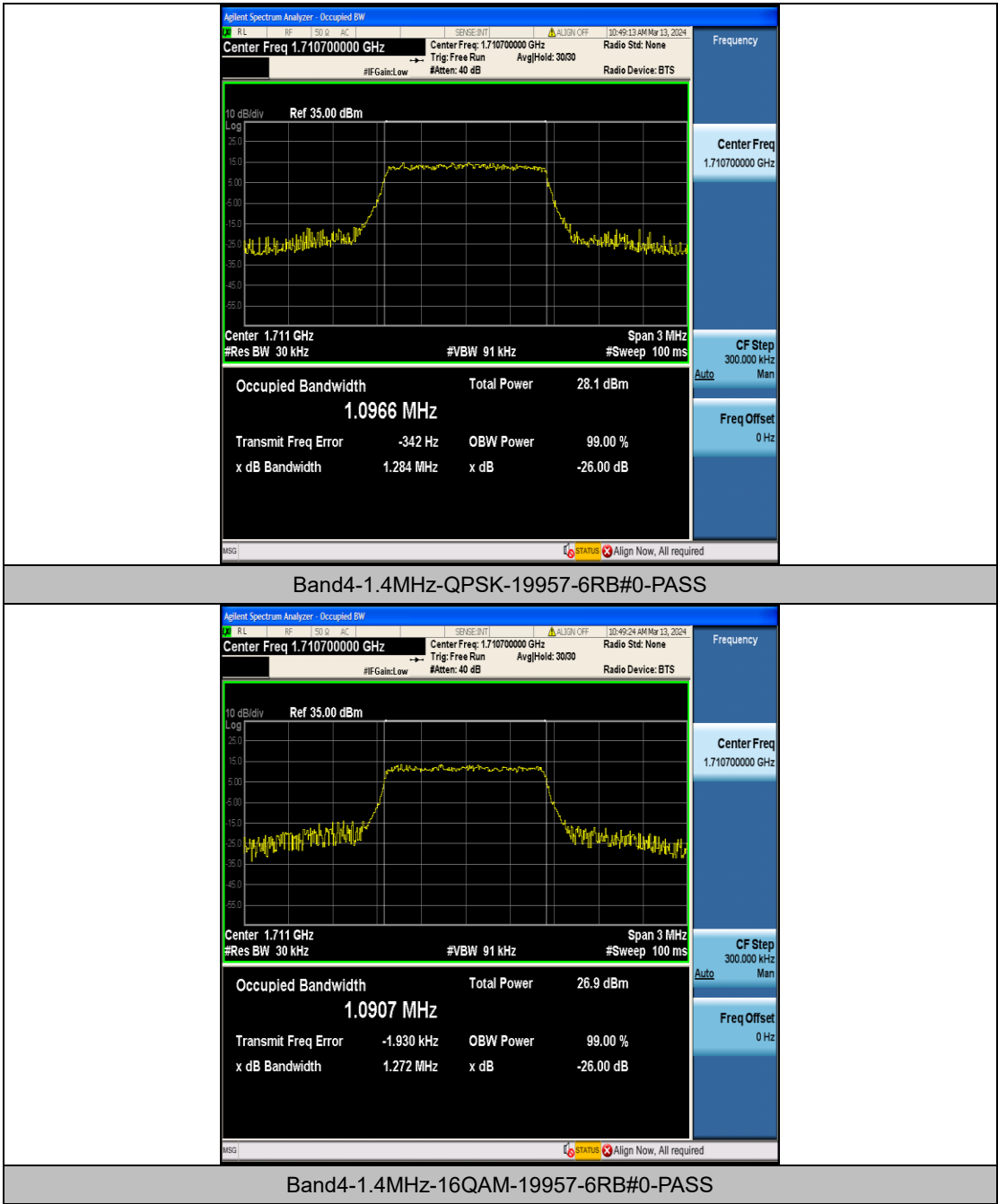
Appendix C: 26dB Bandwidth and Occupied Bandwidth

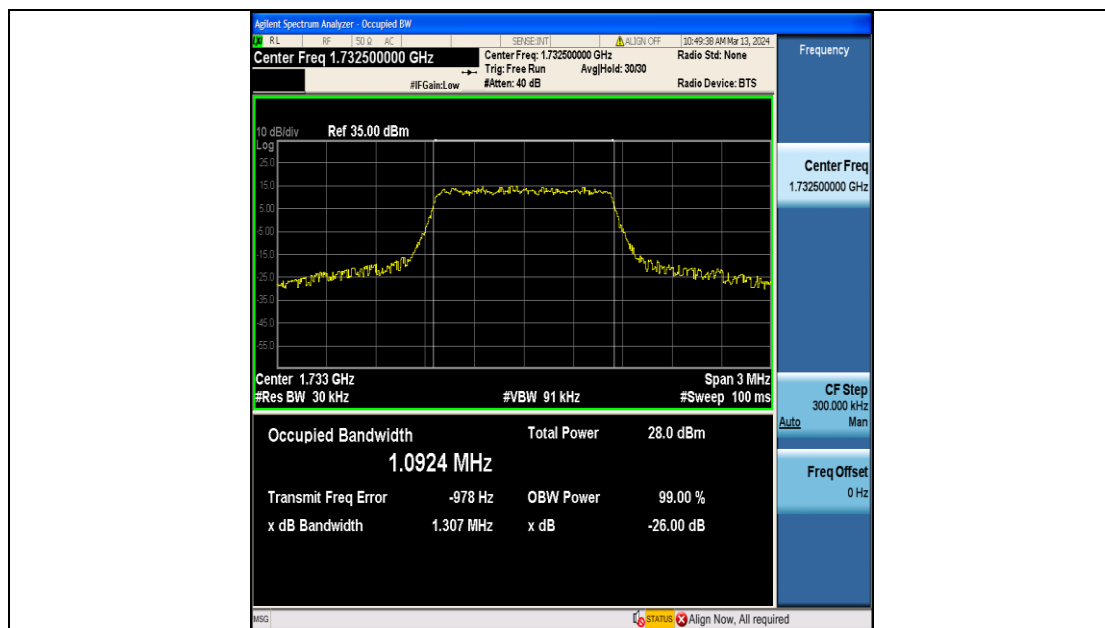
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0966	1.284	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0907	1.272	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0924	1.307	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0974	1.306	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0922	1.287	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0957	1.305	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6885	2.904	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6805	2.903	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6912	2.907	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6805	2.898	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6833	2.896	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6809	2.899	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4972	5.239	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4905	5.037	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5039	5.514	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5052	5.221	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4984	5.263	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.4947	5.045	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9930	9.845	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9774	9.905	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9870	10.22	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9793	9.737	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9933	9.829	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9893	9.727	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.484	14.70	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.482	15.62	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.499	14.74	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.499	15.26	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.501	14.68	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.485	14.68	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.961	19.38	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.981	19.43	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.979	19.41	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.996	19.61	PASS

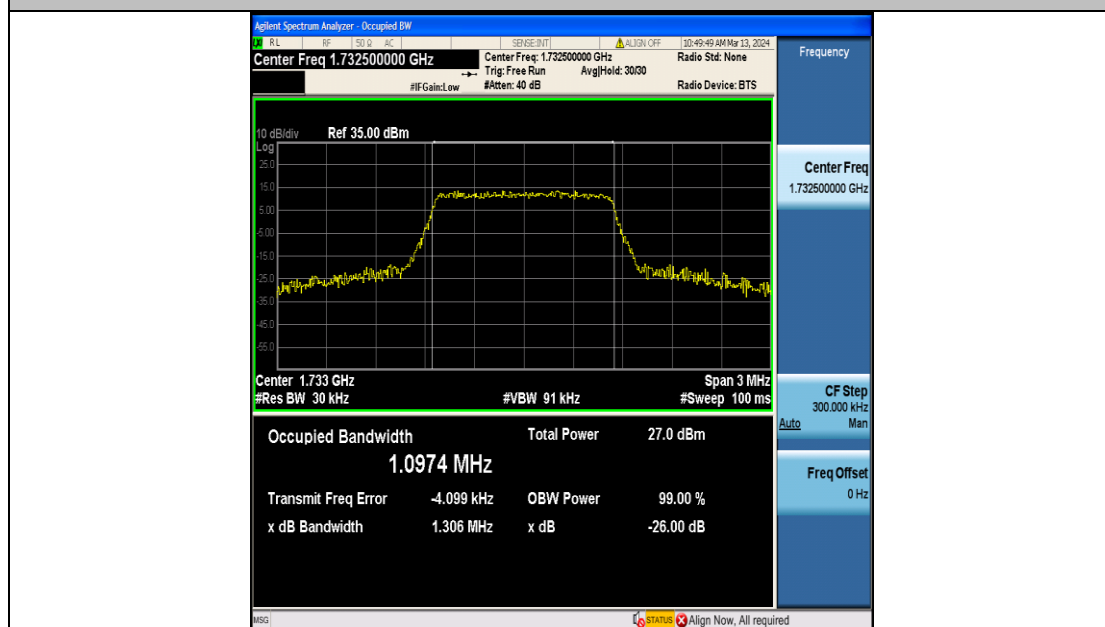
Band4	20MHz	QPSK	20300	100RB#0	17.973	19.38	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.004	19.43	PASS

Test Graphs

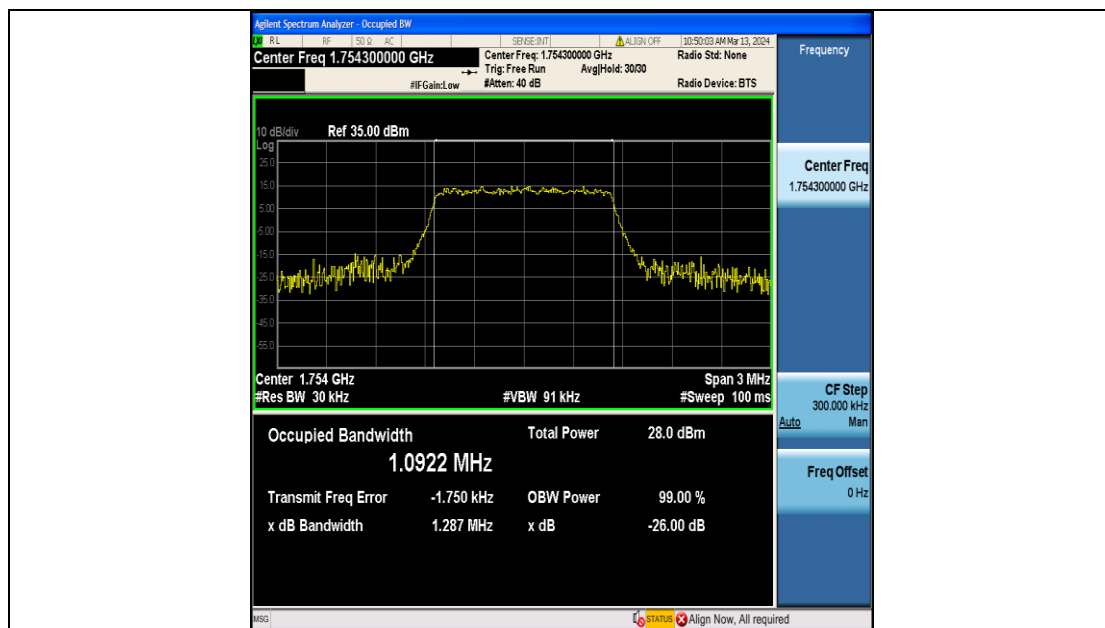




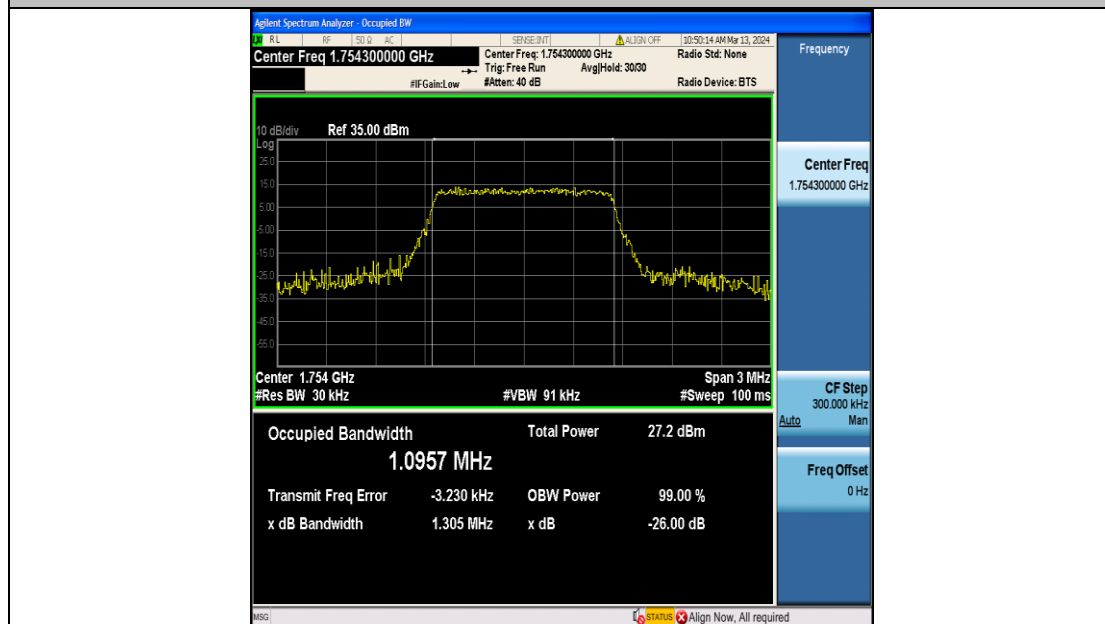
Band4-1.4MHz-QPSK-20175-6RB#0-PASS



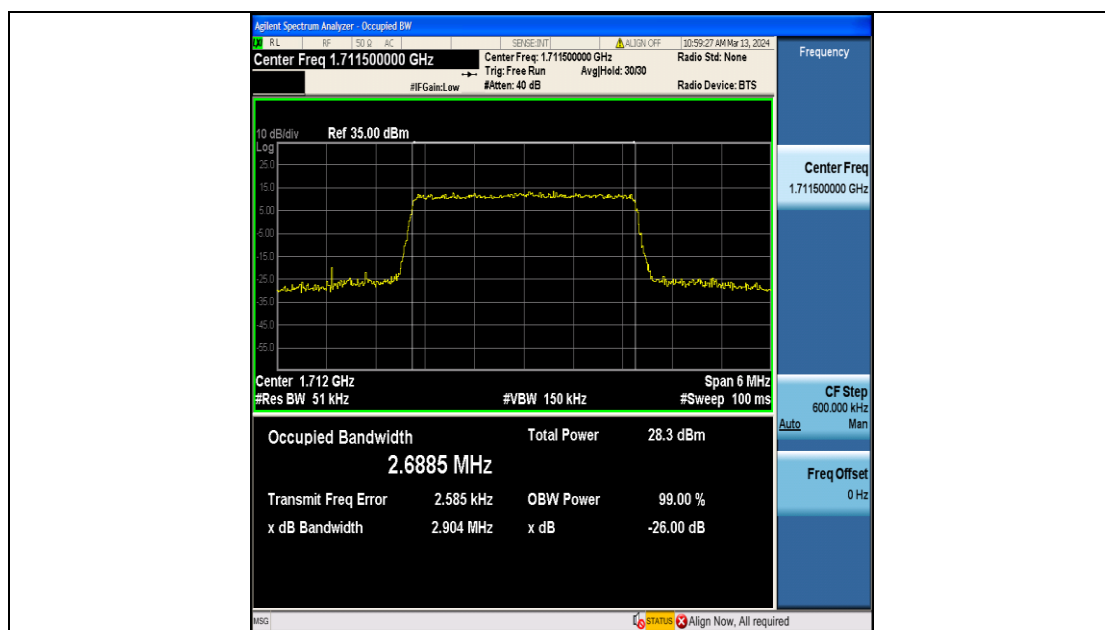
Band4-1.4MHz-16QAM-20175-6RB#0-PASS



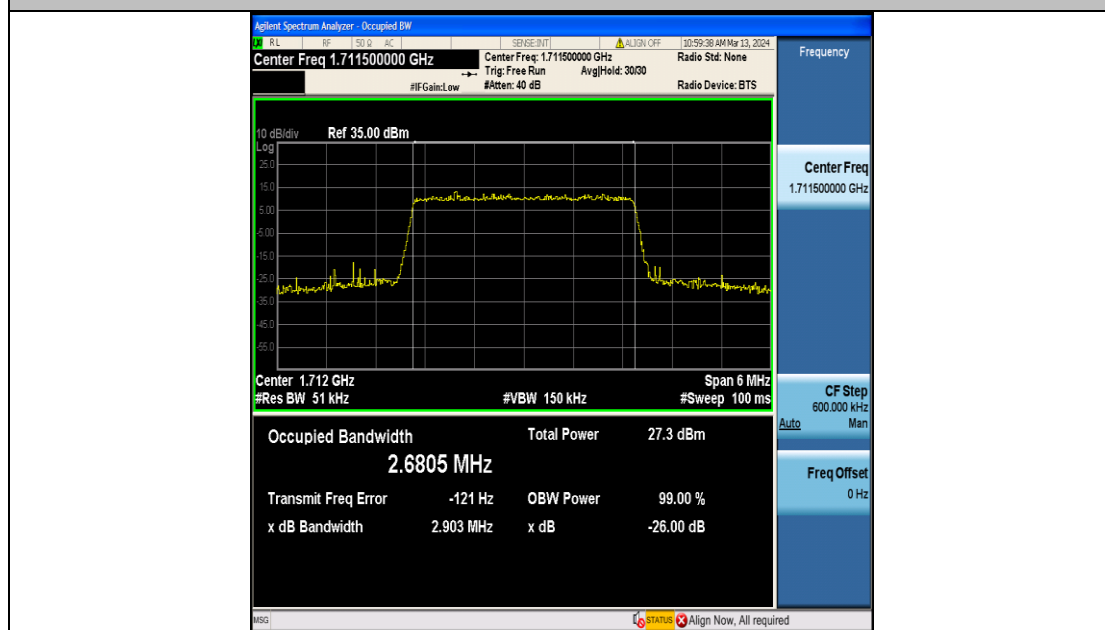
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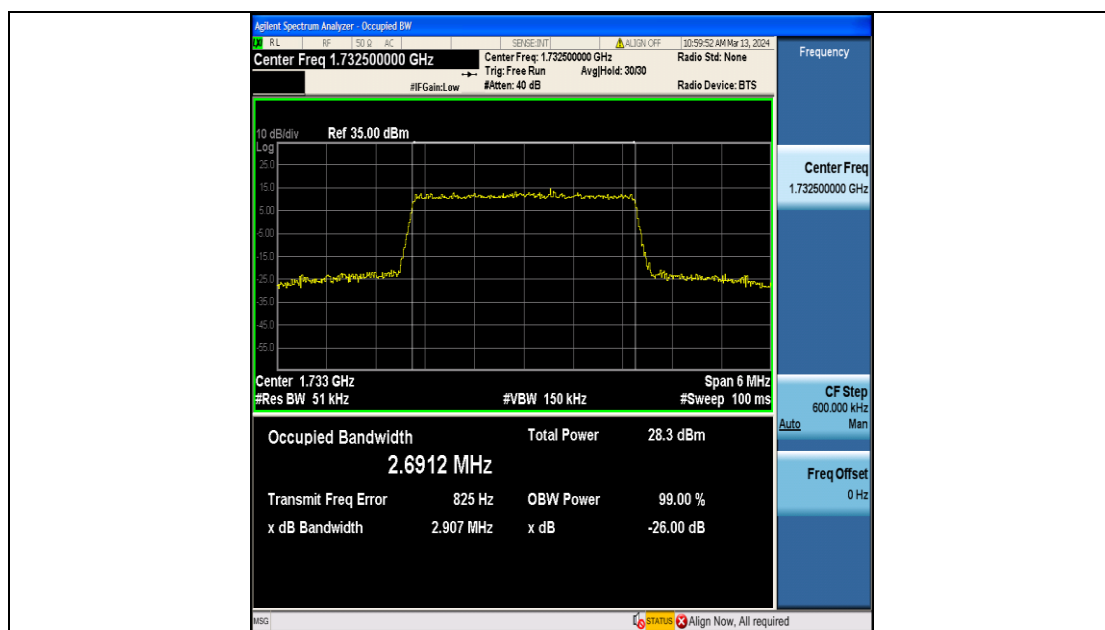
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Band4-3MHz-QPSK-19965-15RB#0-PASS



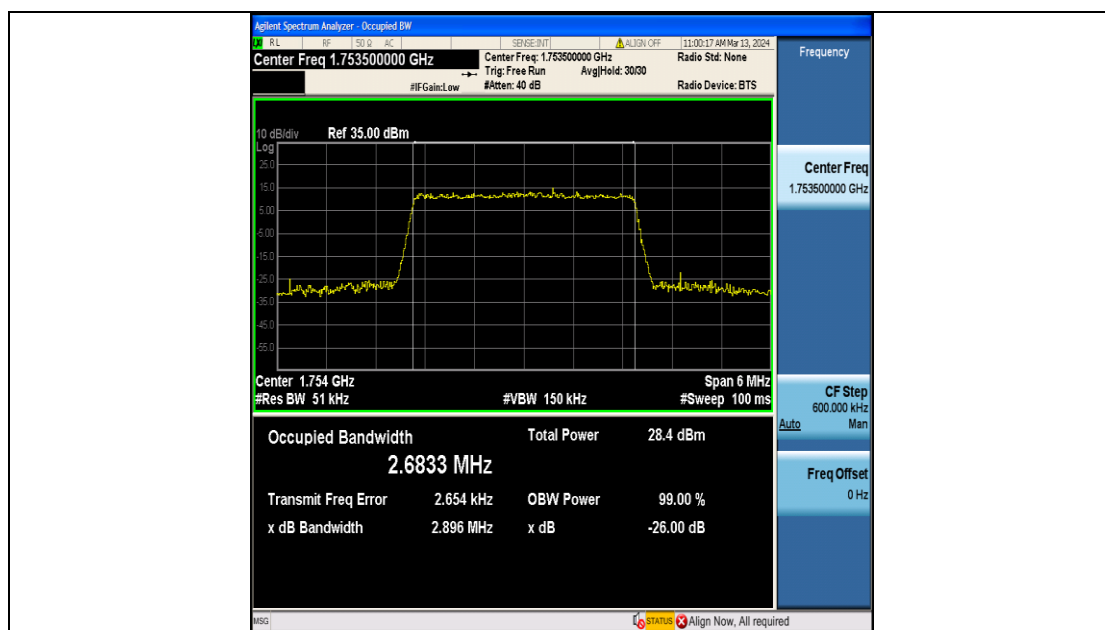
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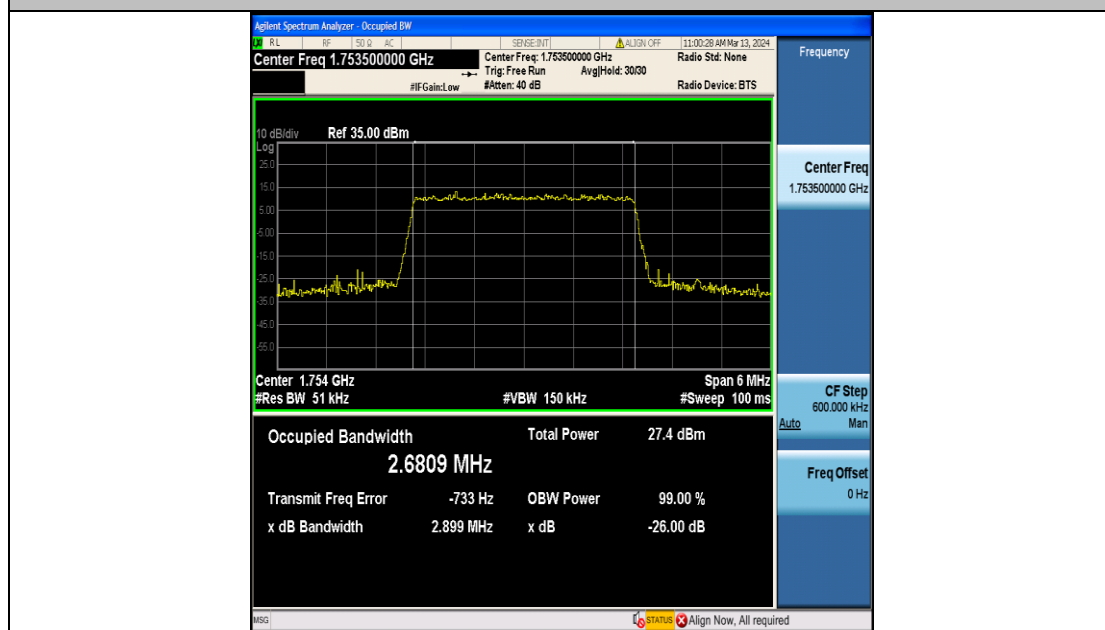
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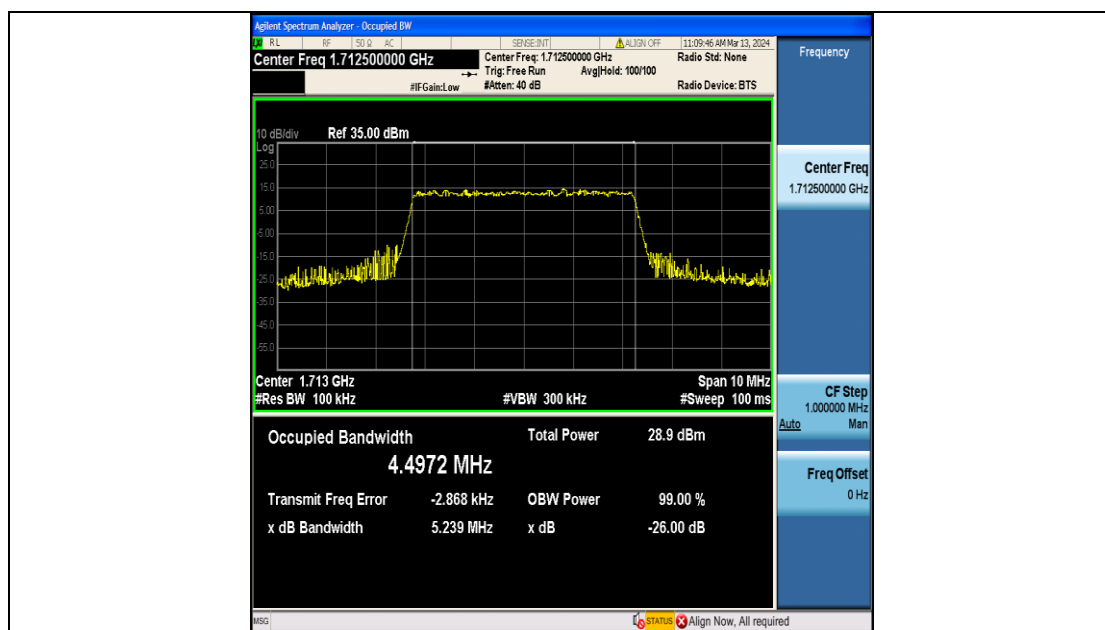
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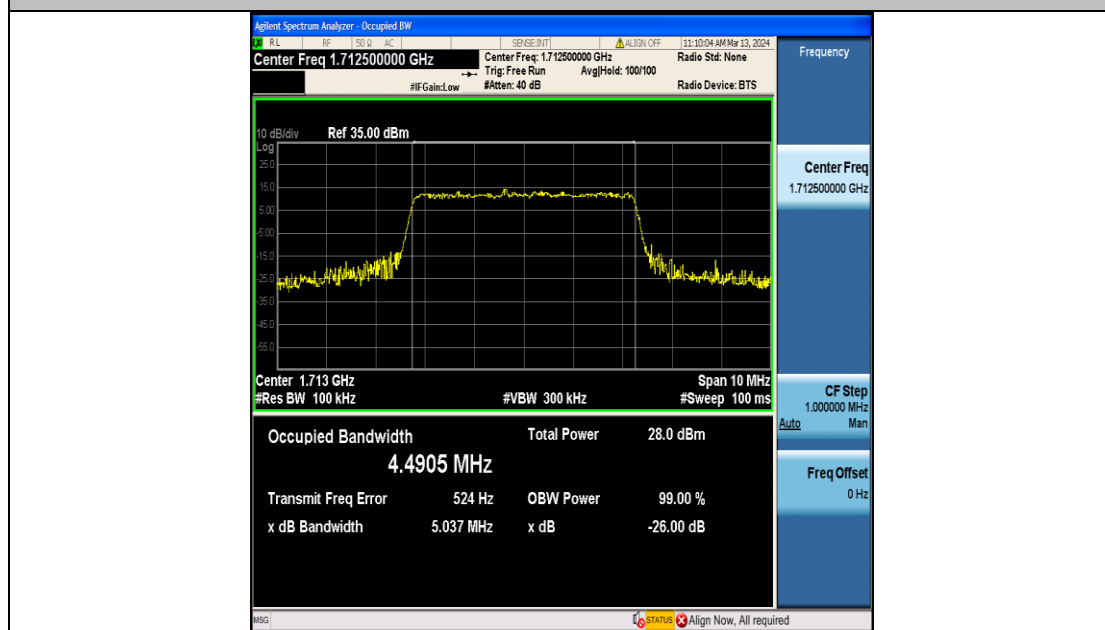
Band4-3MHz-QPSK-20385-15RB#0-PASS



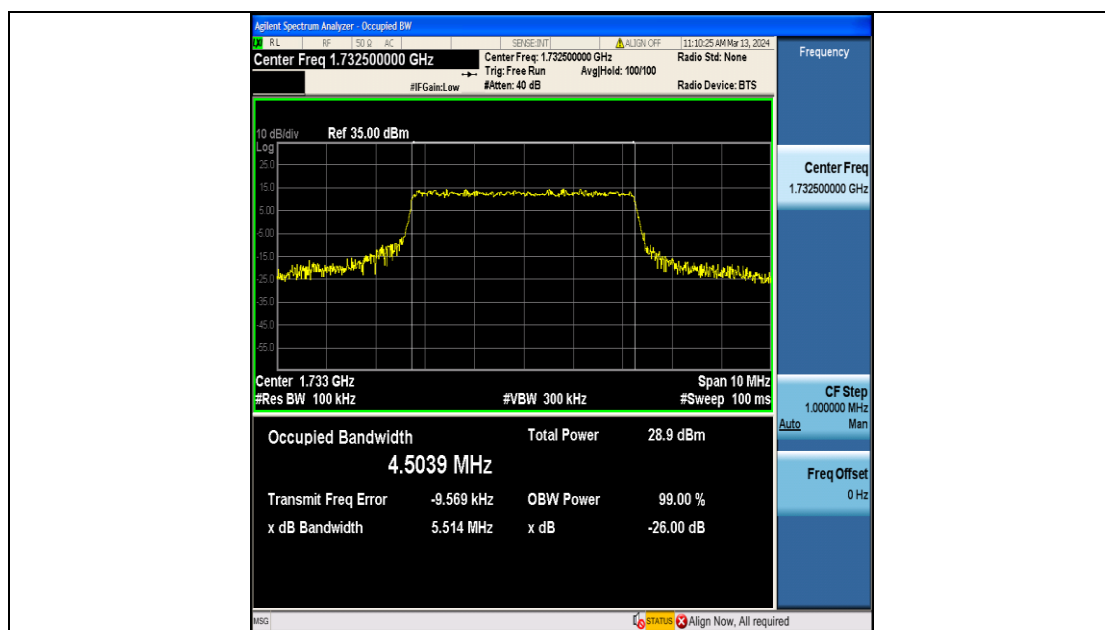
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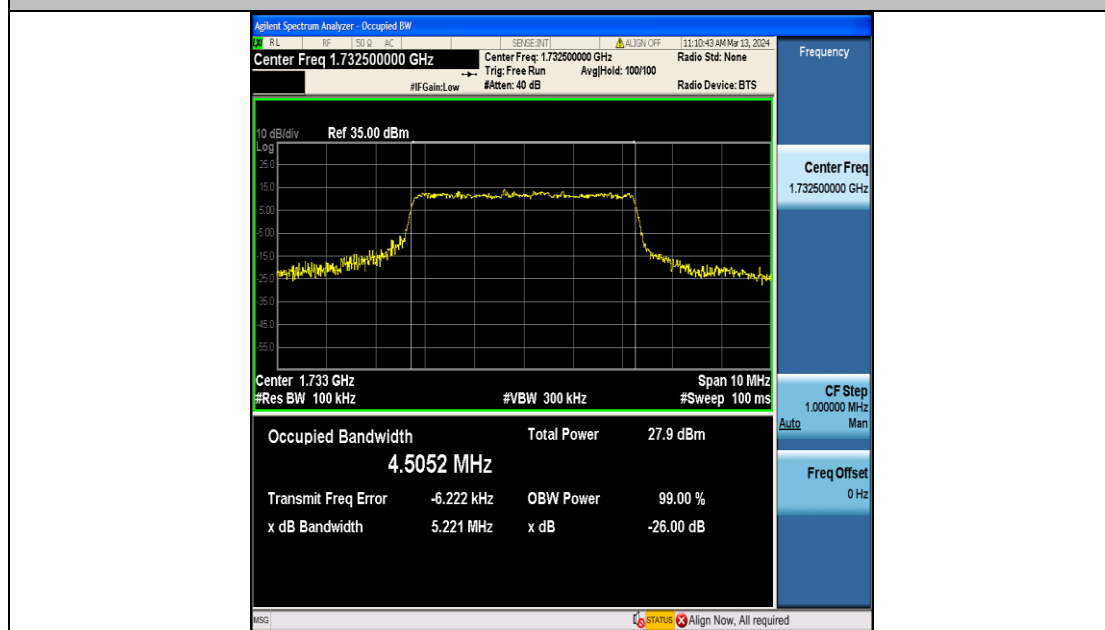
Band4-5MHz-QPSK-19975-25RB#0-PASS



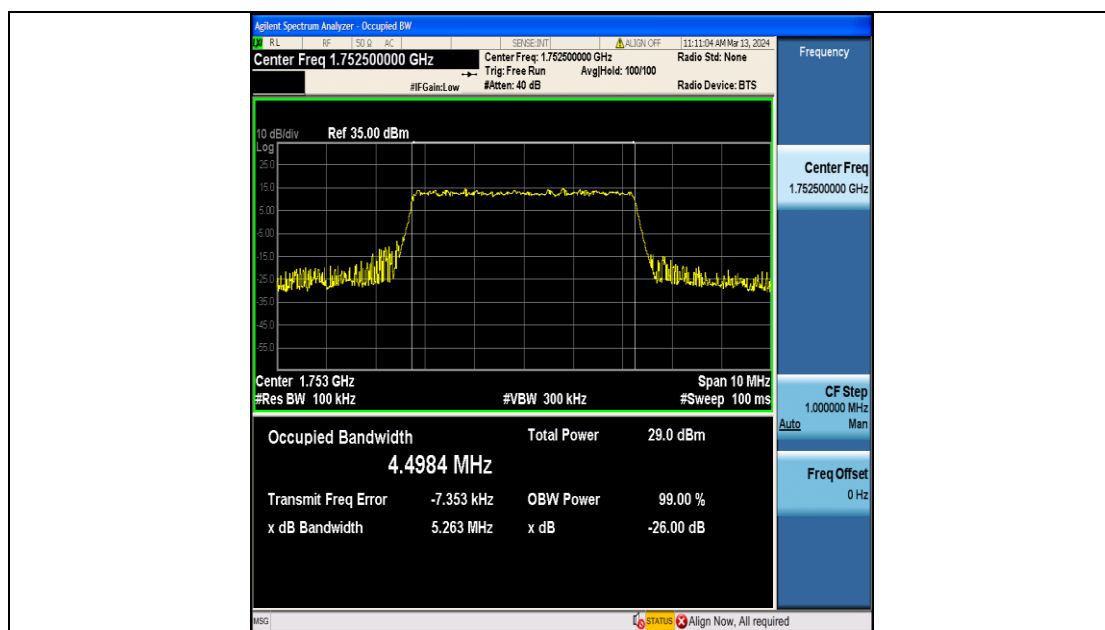
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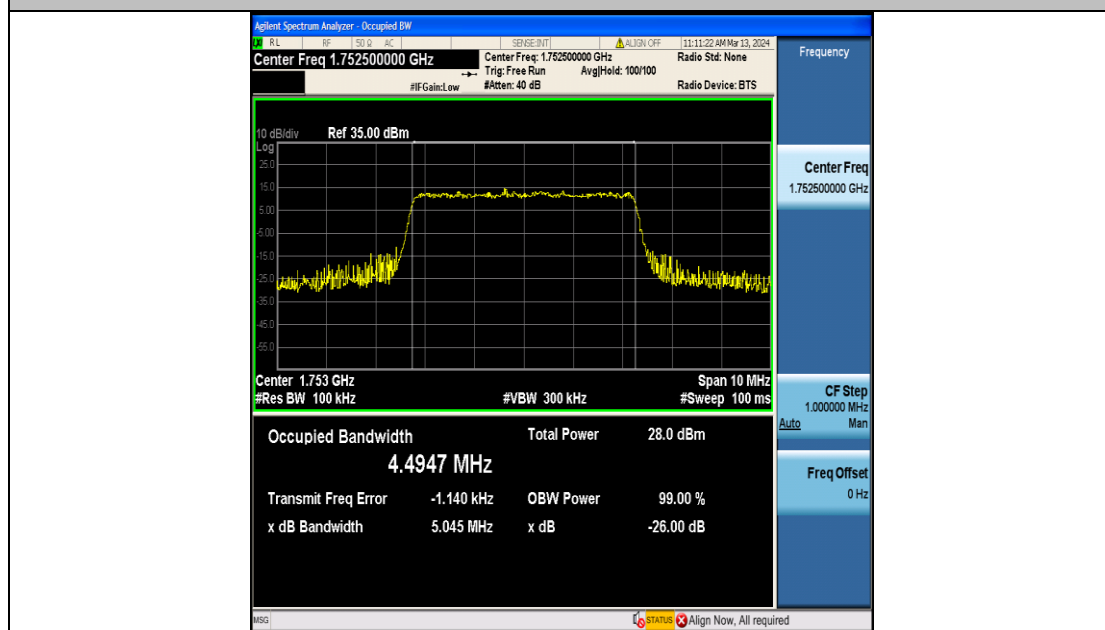
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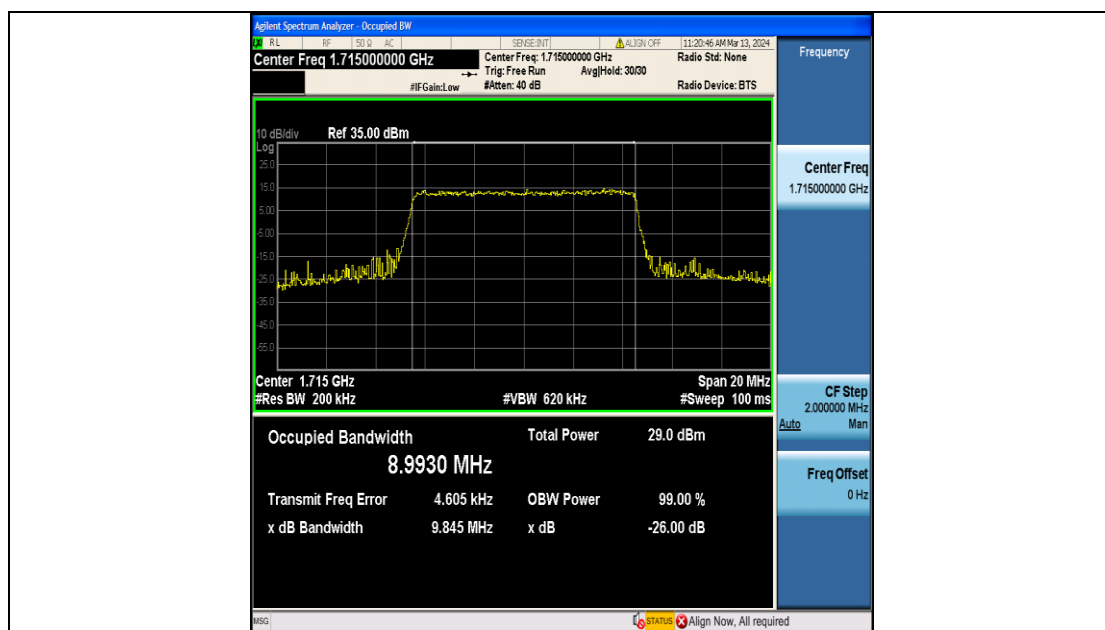
Band4-5MHz-16QAM-20175-25RB#0-PASS



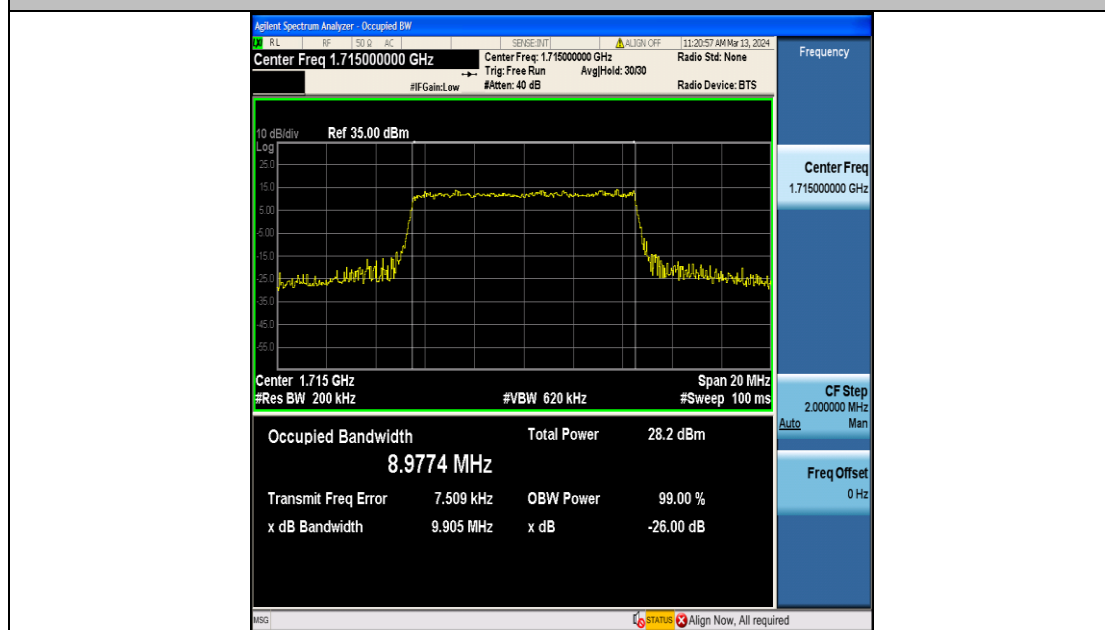
Band4-5MHz-QPSK-20375-25RB#0-PASS



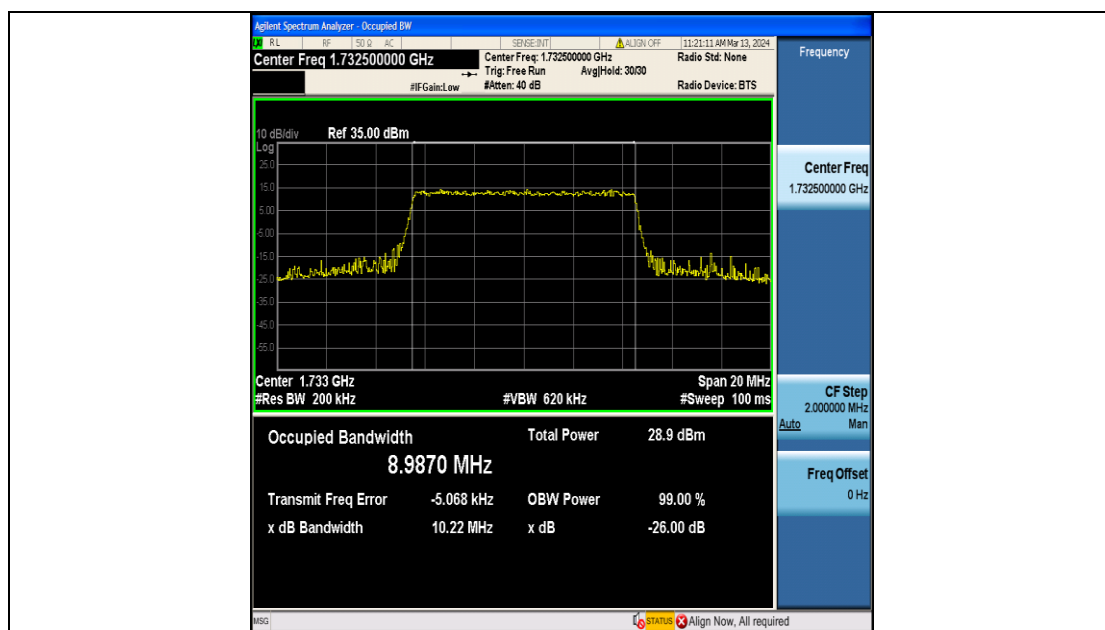
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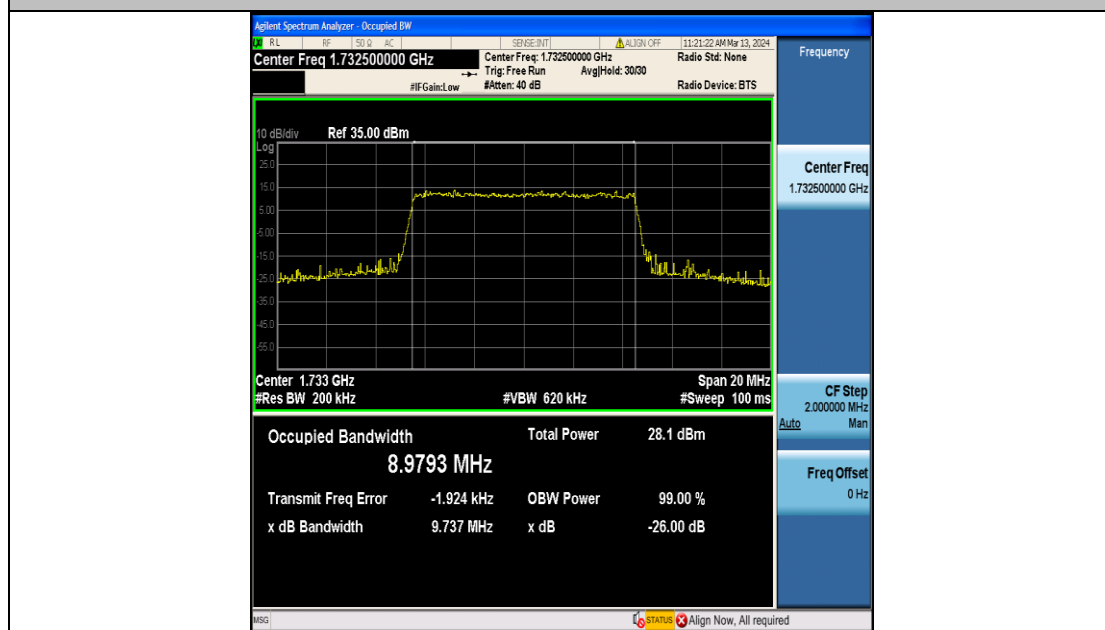
Band4-10MHz-QPSK-20000-50RB#0-PASS



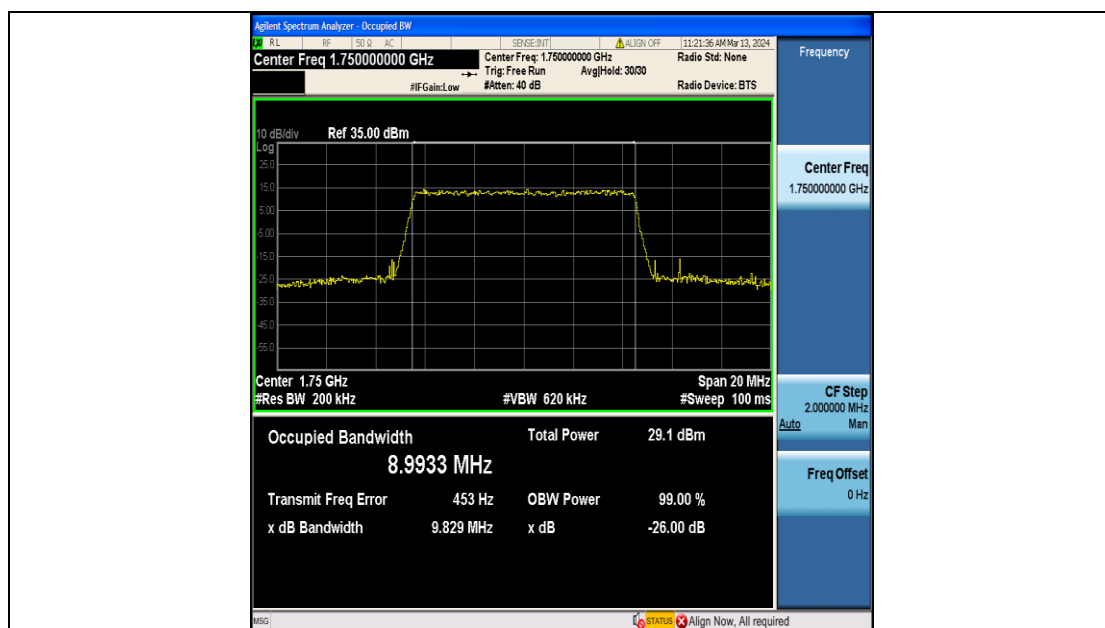
Band4-10MHz-16QAM-20000-50RB#0-PASS



Band4-10MHz-QPSK-20175-50RB#0-PASS



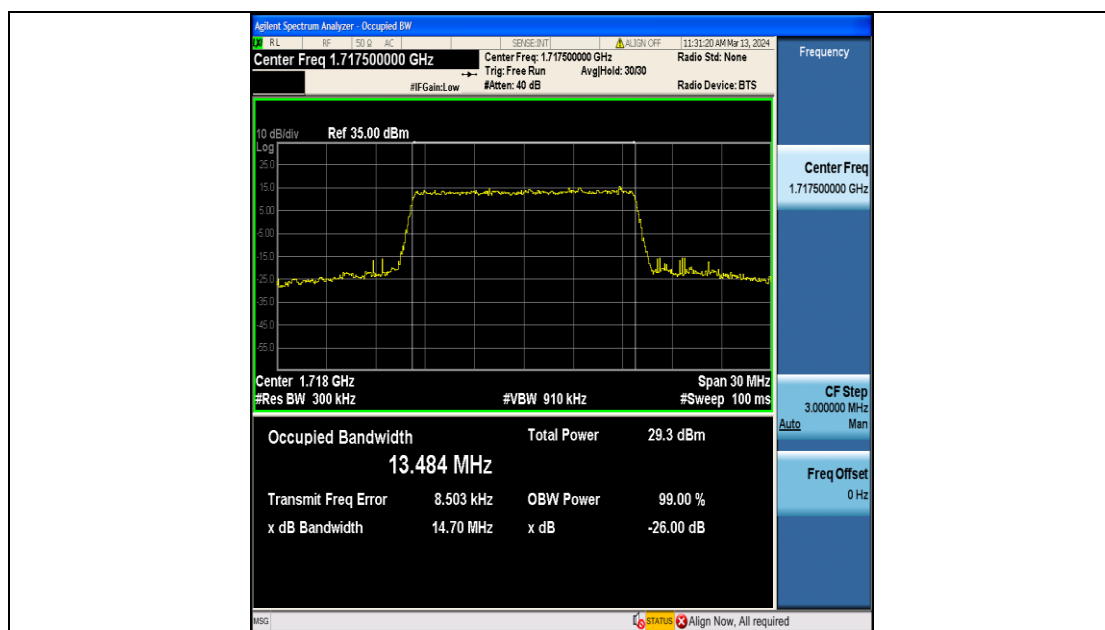
Band4-10MHz-16QAM-20175-50RB#0-PASS



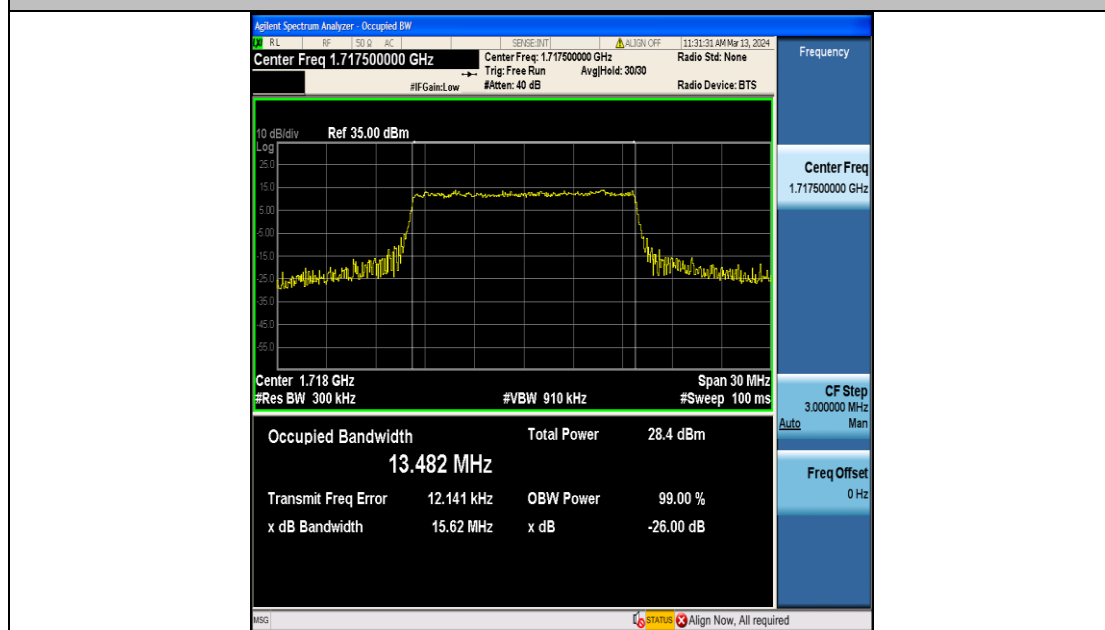
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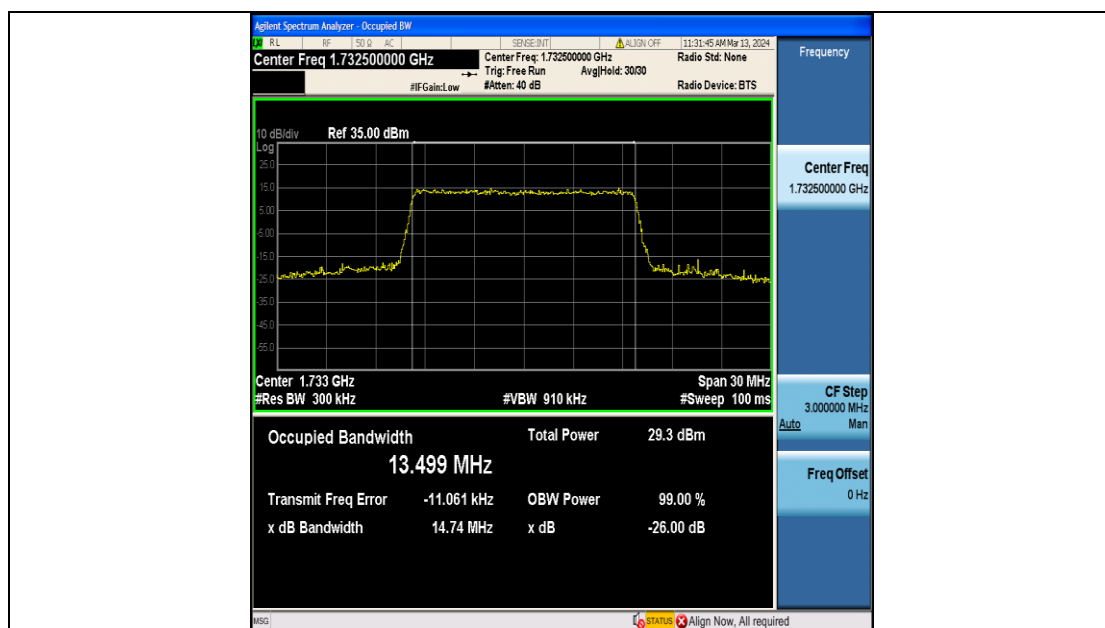
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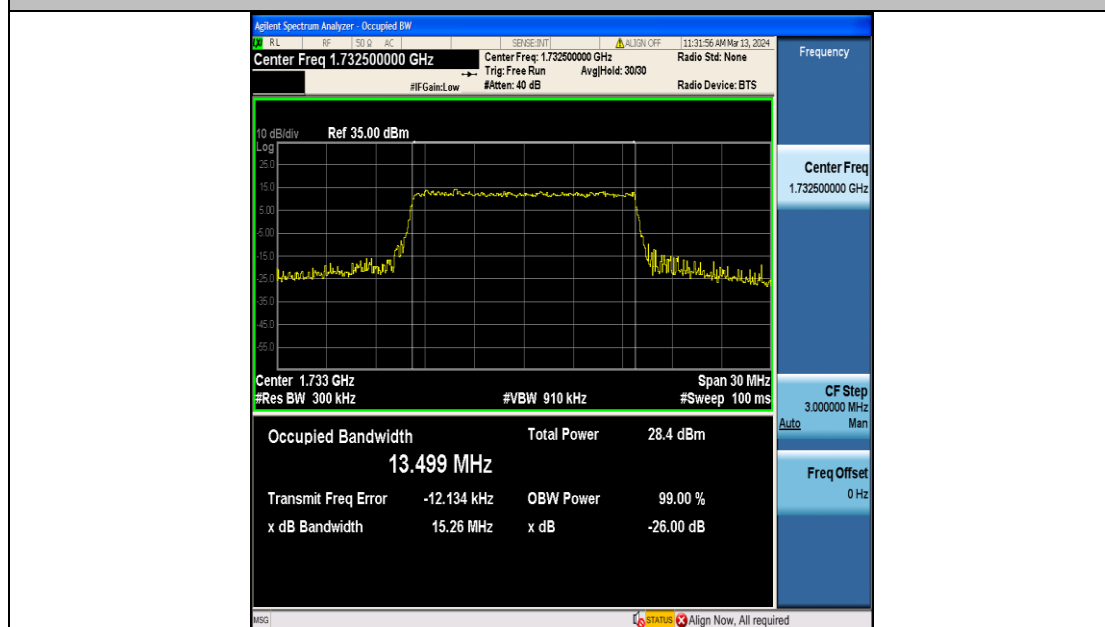
Band4-15MHz-QPSK-20025-75RB#0-PASS



Band4-15MHz-16QAM-20025-75RB#0-PASS



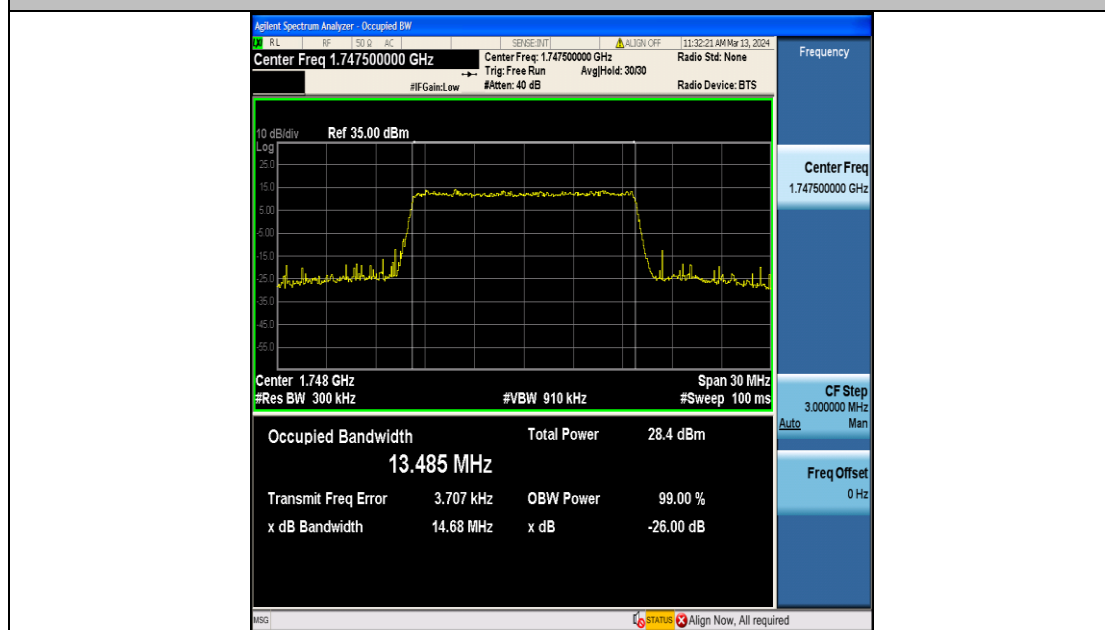
Band4-15MHz-QPSK-20175-75RB#0-PASS



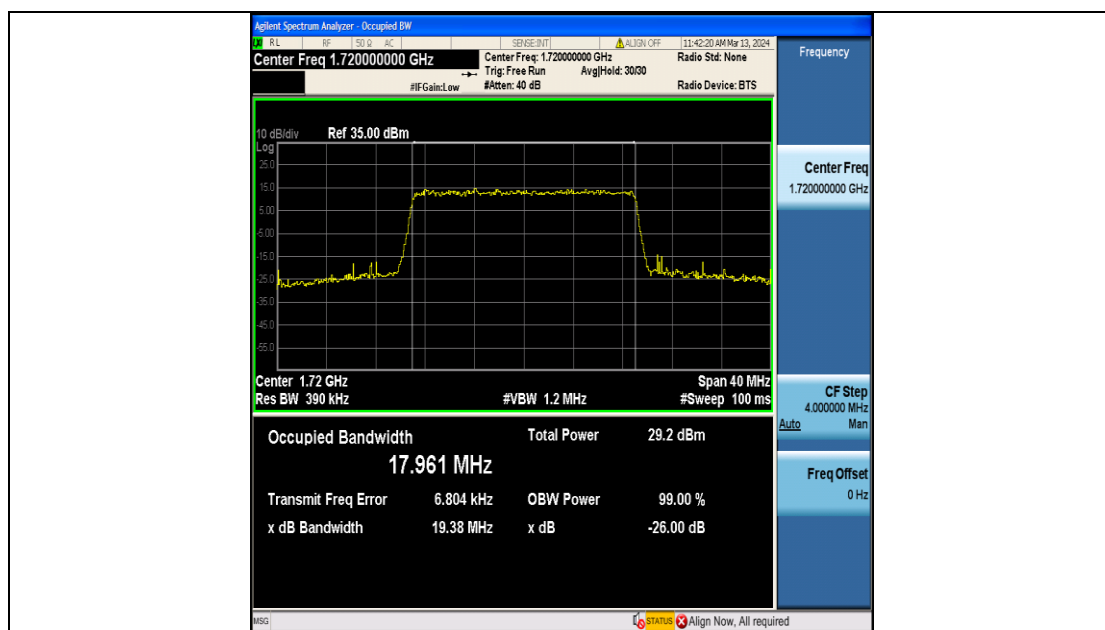
Band4-15MHz-16QAM-20175-75RB#0-PASS



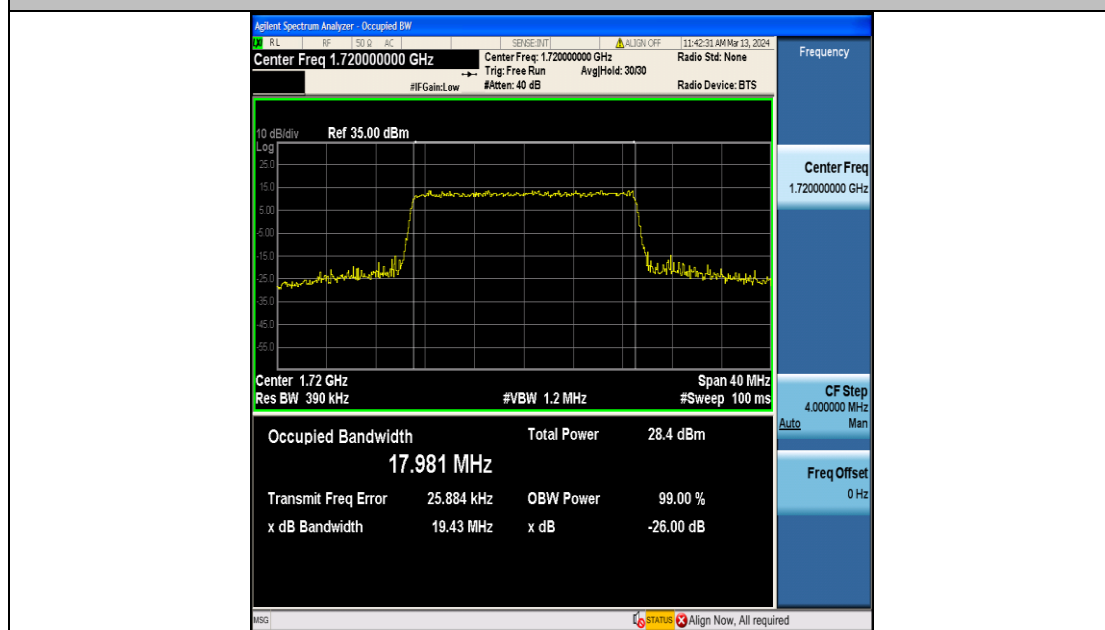
Band4-15MHz-QPSK-20325-75RB#0-PASS



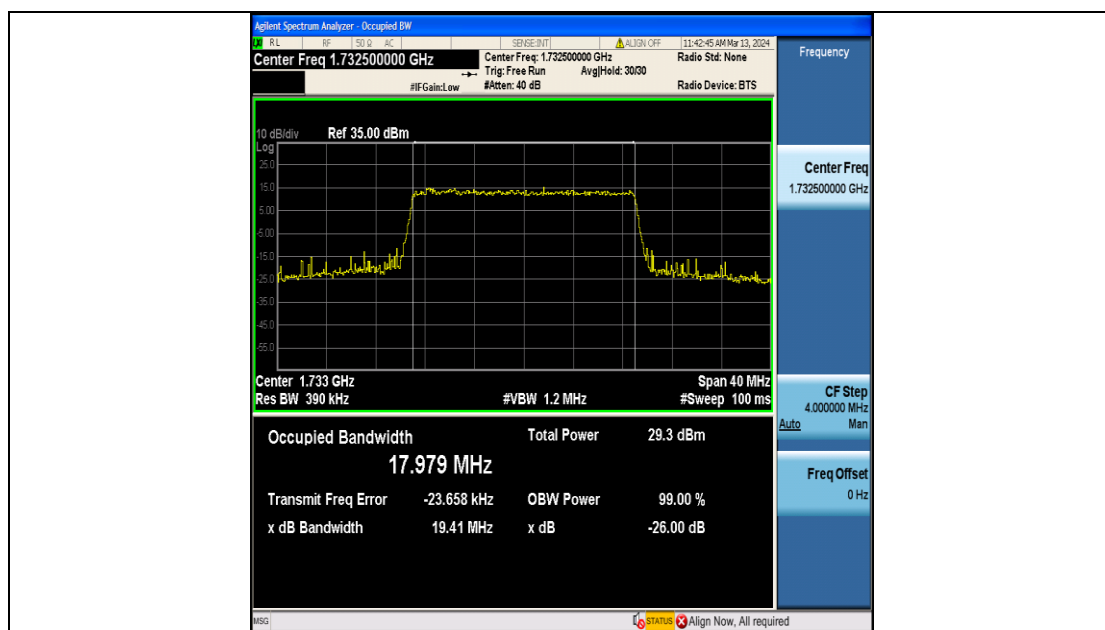
Band4-15MHz-16QAM-20325-75RB#0-PASS



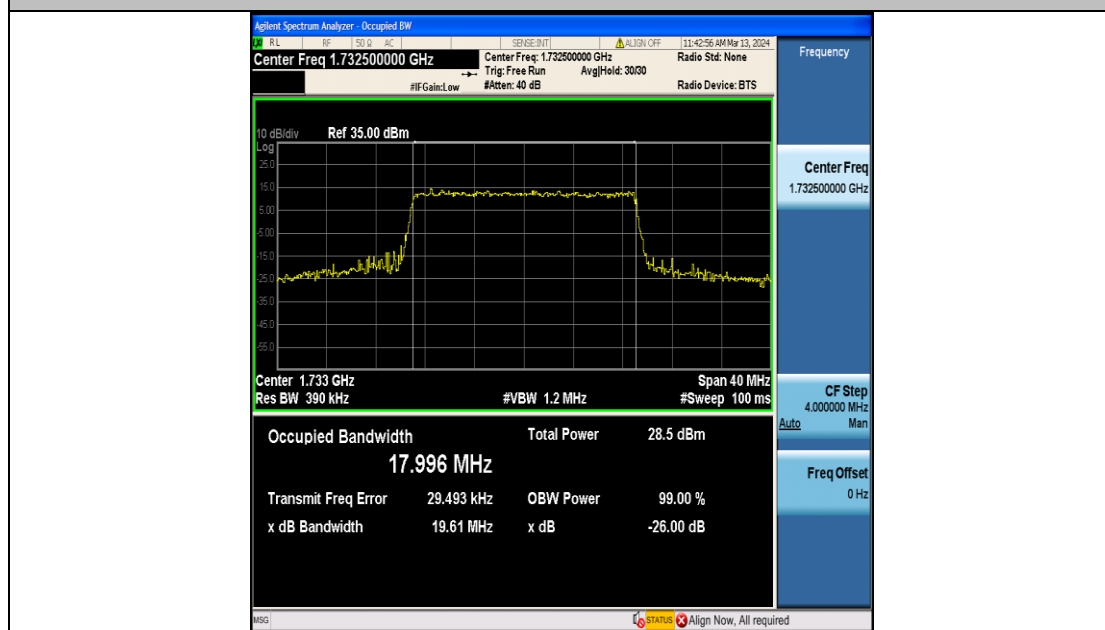
Band4-20MHz-QPSK-20050-100RB#0-PASS



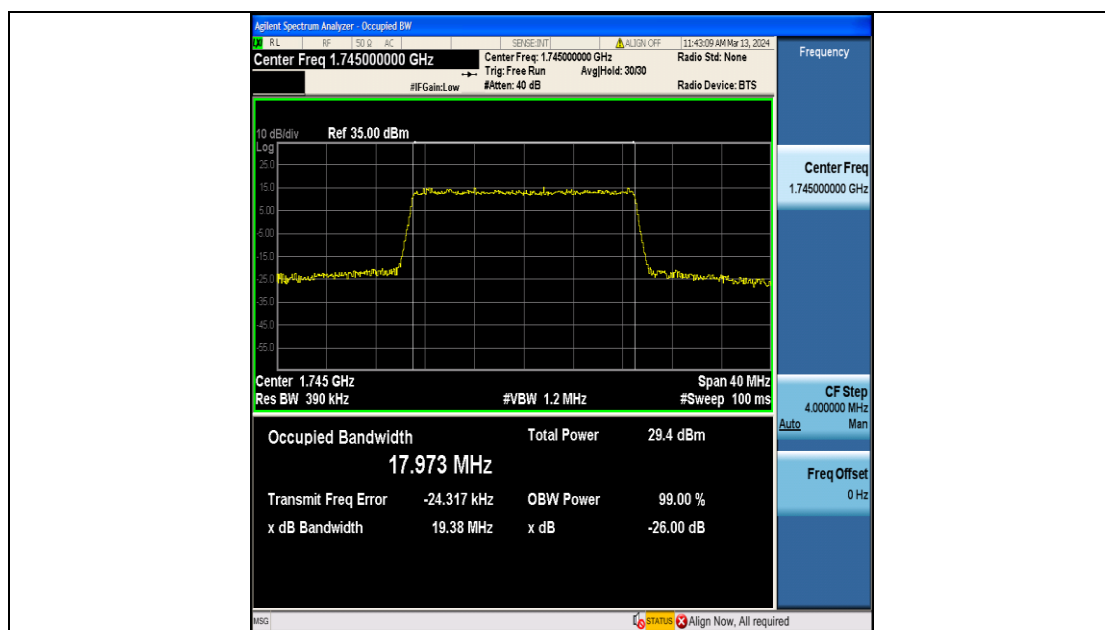
Band4-20MHz-16QAM-20050-100RB#0-PASS



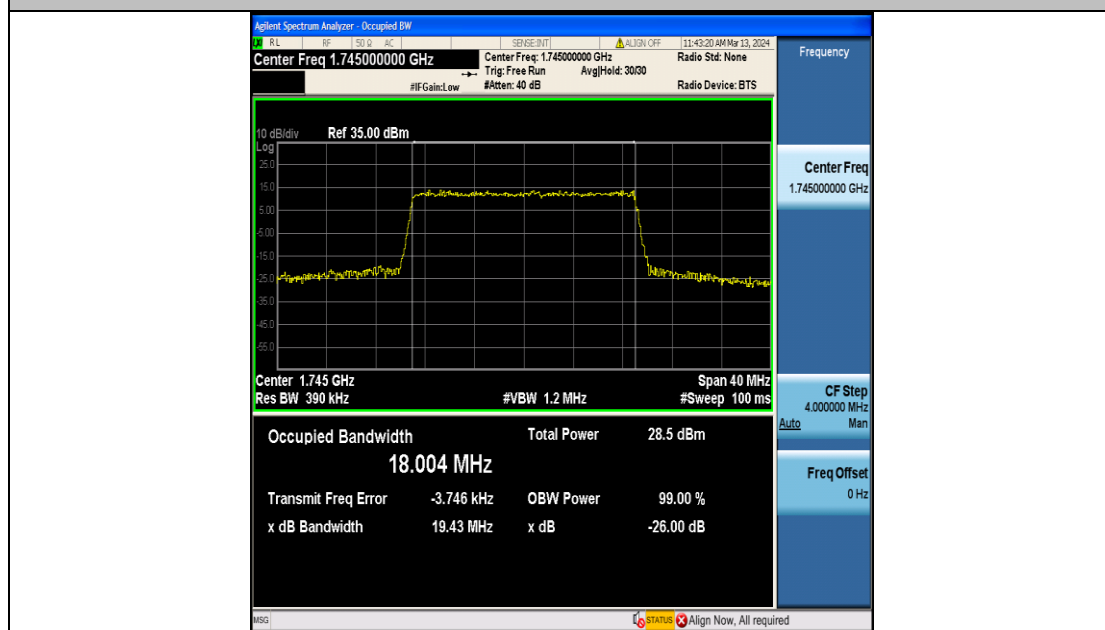
Band4-20MHz-QPSK-20175-100RB#0-PASS



Band4-20MHz-16QAM-20175-100RB#0-PASS



Band4-20MHz-QPSK-20300-100RB#0-PASS



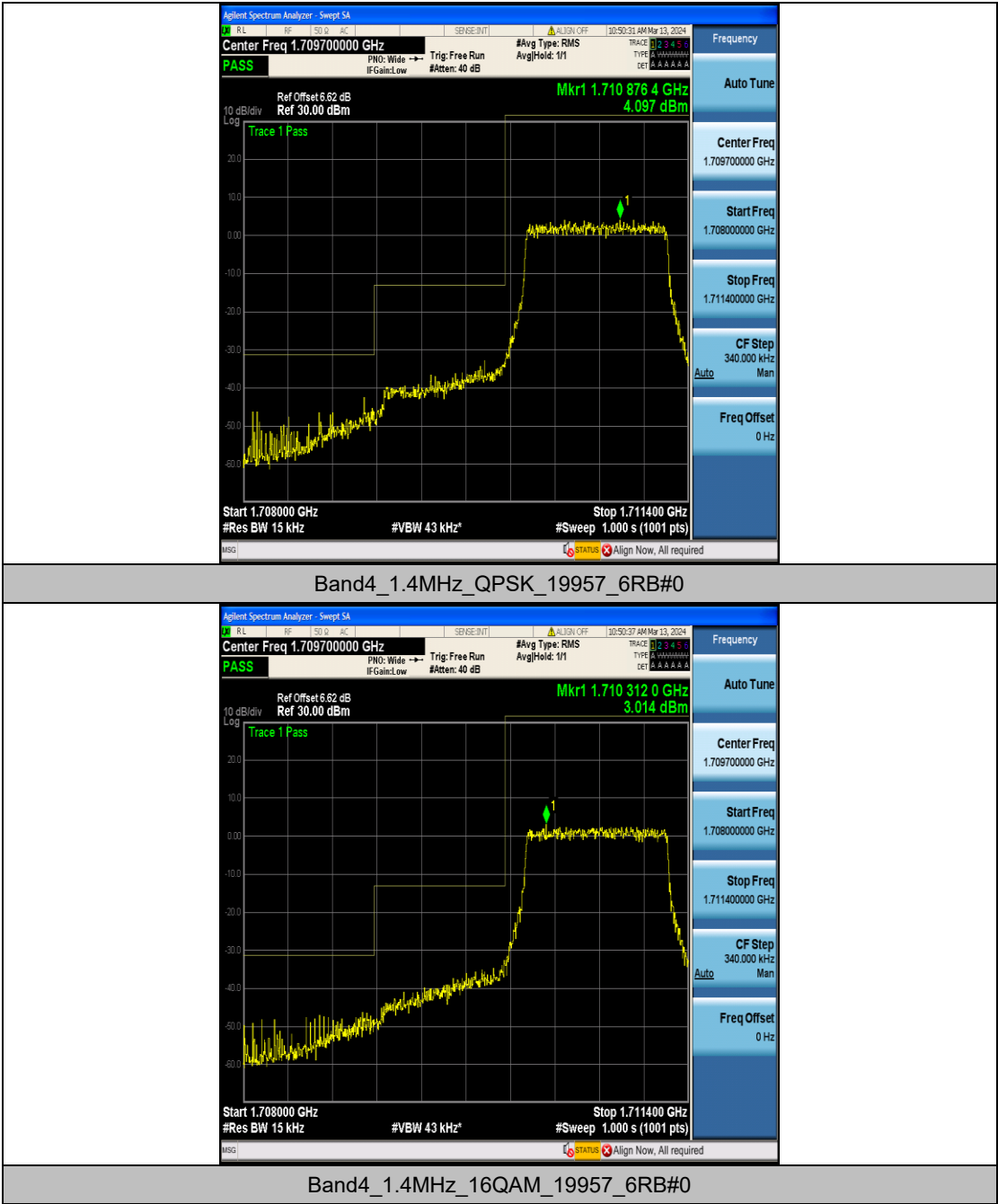
Band4-20MHz-16QAM-20300-100RB#0-PASS

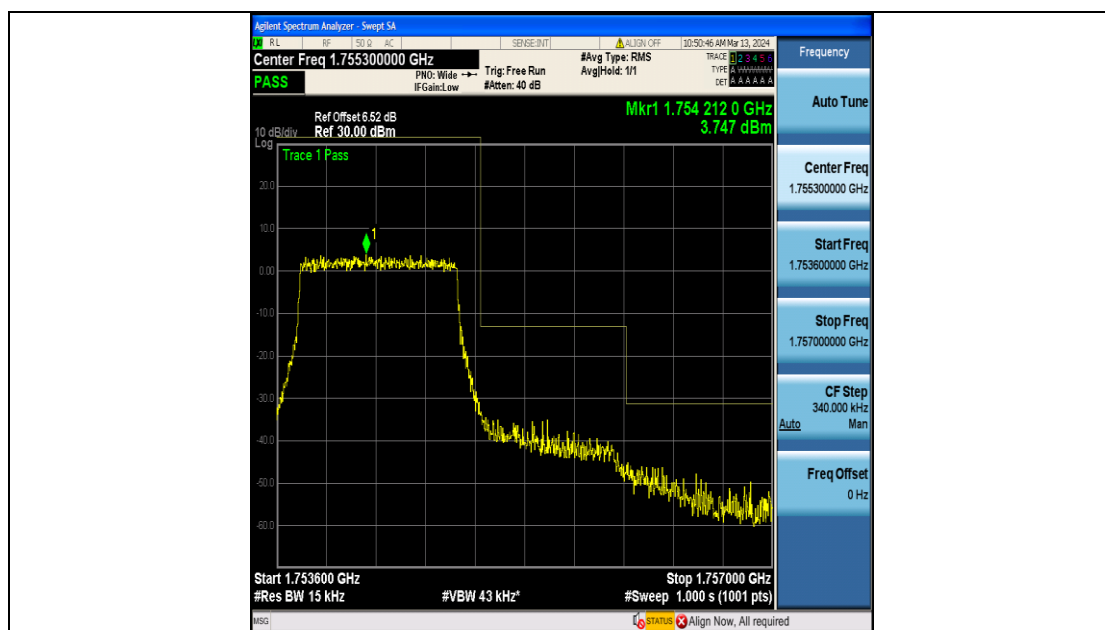
Appendix D: Band Edge

Test Result

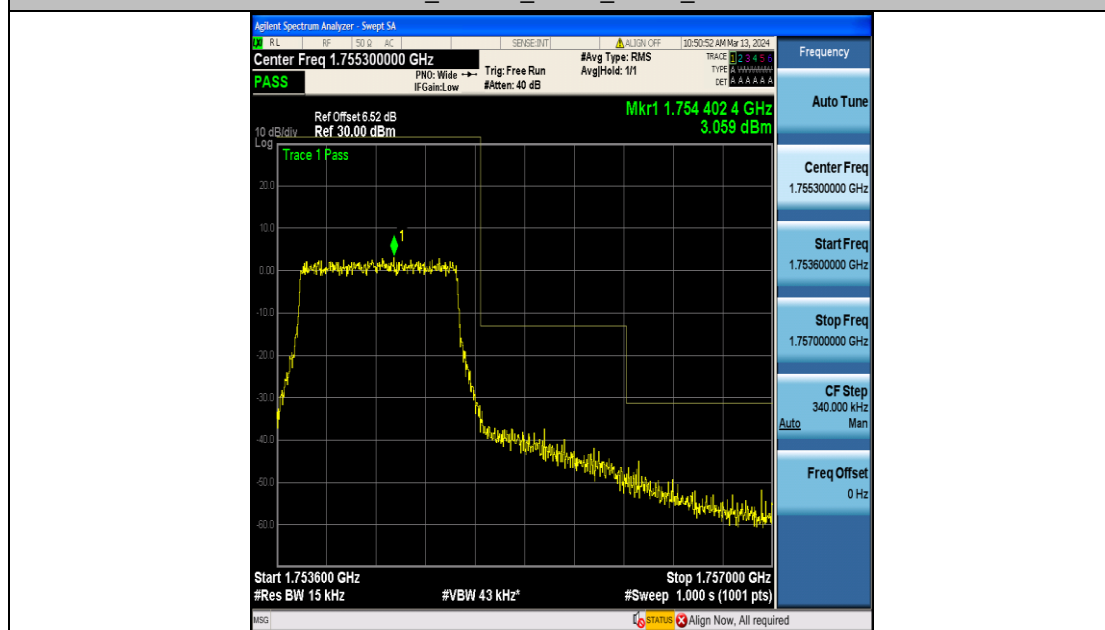
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	-42.52	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-46.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-45.05	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-44.92	PASS
Band4	3MHz	QPSK	19965	15RB#0	-39.02	PASS
Band4	3MHz	16QAM	19965	15RB#0	-39.34	PASS
Band4	3MHz	QPSK	20385	15RB#0	-41.41	PASS
Band4	3MHz	16QAM	20385	15RB#0	-41.53	PASS
Band4	5MHz	QPSK	19975	25RB#0	-38.04	PASS
Band4	5MHz	16QAM	19975	25RB#0	-38.20	PASS
Band4	5MHz	QPSK	20375	25RB#0	-39.72	PASS
Band4	5MHz	16QAM	20375	25RB#0	-40.29	PASS
Band4	10MHz	QPSK	20000	50RB#0	-37.27	PASS
Band4	10MHz	16QAM	20000	50RB#0	-38.41	PASS
Band4	10MHz	QPSK	20350	50RB#0	-39.11	PASS
Band4	10MHz	16QAM	20350	50RB#0	-39.74	PASS
Band4	15MHz	QPSK	20025	75RB#0	-34.25	PASS
Band4	15MHz	16QAM	20025	75RB#0	-36.79	PASS
Band4	15MHz	QPSK	20325	75RB#0	-36.27	PASS
Band4	15MHz	16QAM	20325	75RB#0	-38.72	PASS
Band4	20MHz	QPSK	20050	100RB#0	-36.17	PASS
Band4	20MHz	16QAM	20050	100RB#0	-37.70	PASS
Band4	20MHz	QPSK	20300	100RB#0	-38.13	PASS
Band4	20MHz	16QAM	20300	100RB#0	-39.15	PASS

Test Graphs





Band4_1.4MHz_QPSK_20393_6RB#0



Band4_1.4MHz_16QAM_20393_6RB#0