



Appendix F: Test Data for E-UTRA Band 5

Product Name: Smartphone

Test Model: J24

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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F.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.01	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.86	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.08	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.02	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.04	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.91	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.08	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.85	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.13	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.87	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.09	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.93	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.03	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.02	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.02	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.85	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.09	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.06	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.98	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.82	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.08	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.90	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.11	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.88	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.07	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.88	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.98	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.84	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.86	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.67	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.92	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.74	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.85	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.60	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.05	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.73	PASS



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Band5	1.4MHz	QPSK	20643	3RB#1	23.05	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.77	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.00	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.71	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.94	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.90	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.03	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.09	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.05	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.06	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.03	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.01	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.05	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.07	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.07	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.08	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.09	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.05	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.02	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.01	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.03	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.96	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.08	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.83	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.01	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.82	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.97	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.94	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.94	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.97	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.00	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.99	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.00	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.93	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.96	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.73	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.98	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.78	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.91	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.48	PASS



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Band5	3MHz	QPSK	20635	8RB#0	21.99	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.96	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.95	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.98	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.98	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.96	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.96	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.84	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.99	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.91	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.13	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.04	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.01	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.90	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.01	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.01	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.07	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.01	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.98	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.98	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.04	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.11	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.94	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.06	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.06	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.17	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.89	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.92	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.99	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.01	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.98	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.07	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.00	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.03	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.04	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.00	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.85	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.77	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.04	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.92	PASS



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Band5	5MHz	QPSK	20625	1RB#24	22.89	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.75	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.93	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.95	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.93	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.97	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.99	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.01	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.99	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.08	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.02	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.04	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.17	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.21	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.96	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.01	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.20	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.18	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.15	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.16	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.12	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.14	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.13	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.11	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.01	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.95	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.14	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.11	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.02	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.76	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.08	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.10	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.11	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.08	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.02	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.10	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.04	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.11	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.97	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.69	PASS



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Band5	10MHz	QPSK	20600	1RB#24	23.05	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.83	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.91	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.66	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.07	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.11	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.12	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.15	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.14	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.16	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.07	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.12	PASS





F.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.12	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.18	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	4.95	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.75	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.90	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.69	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.40	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.20	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.61	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.77	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.22	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.05	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.10	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	4.99	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.05	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.85	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.97	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.74	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.45	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.21	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.72	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.86	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.31	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.17	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.26	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	4.95	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.39	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.05	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.16	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.84	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.60	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.26	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.43	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.18	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.54	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.24	13	PASS



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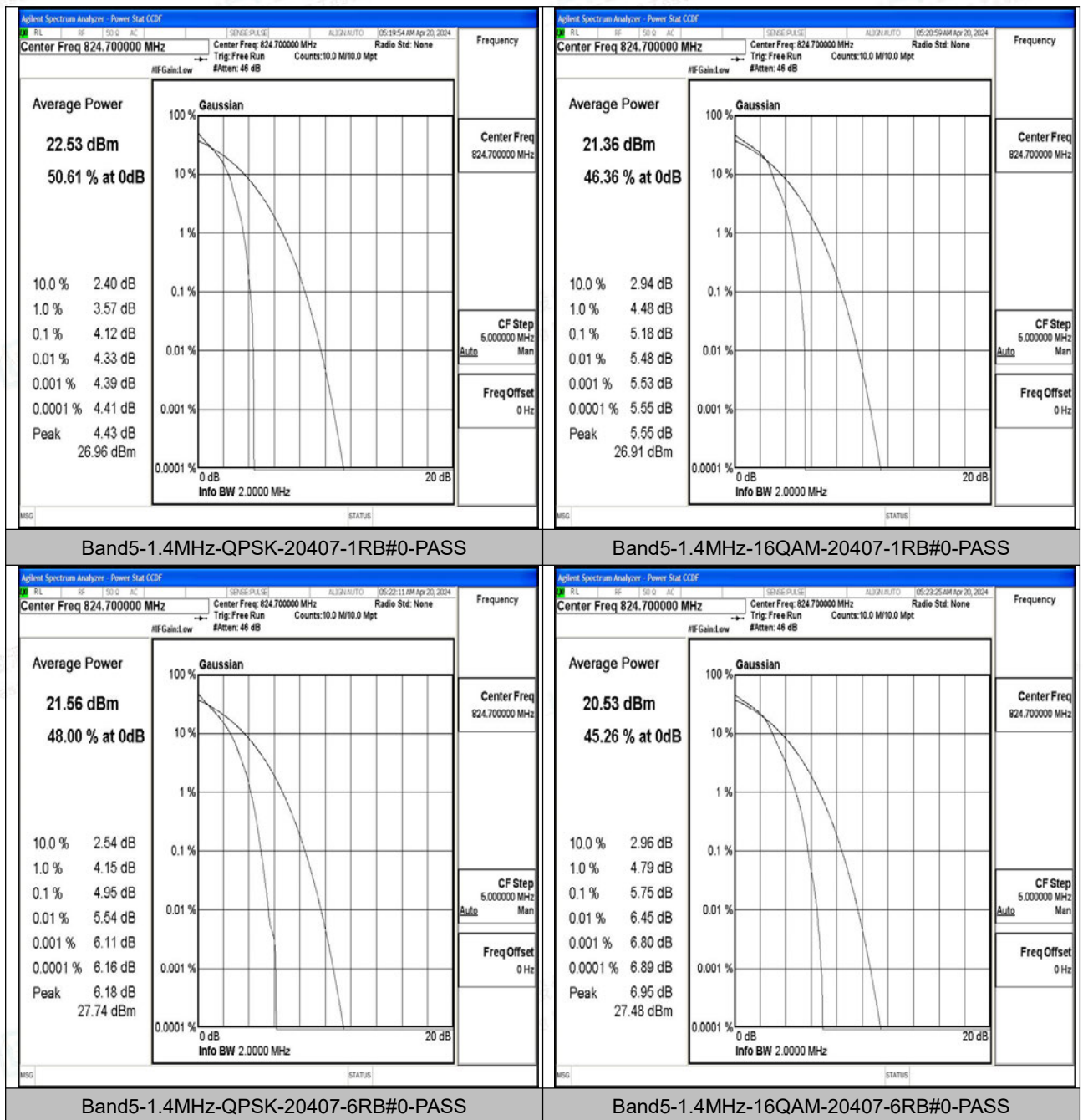


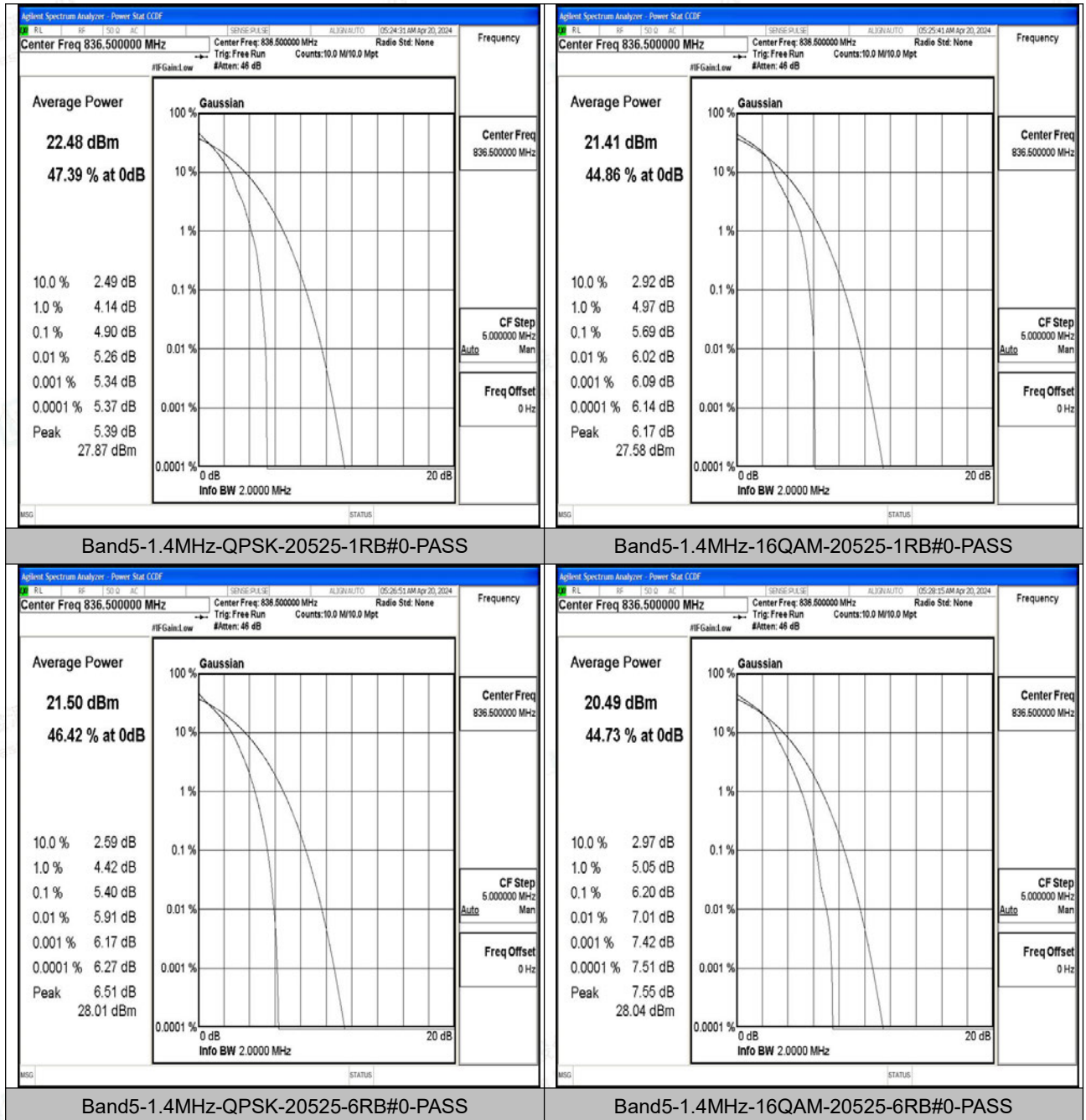
Band5	10MHz	QPSK	20450	1RB#0	4.14	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.04	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.27	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.02	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.81	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.52	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.29	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.24	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.51	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.25	13	PASS





Test Graphs



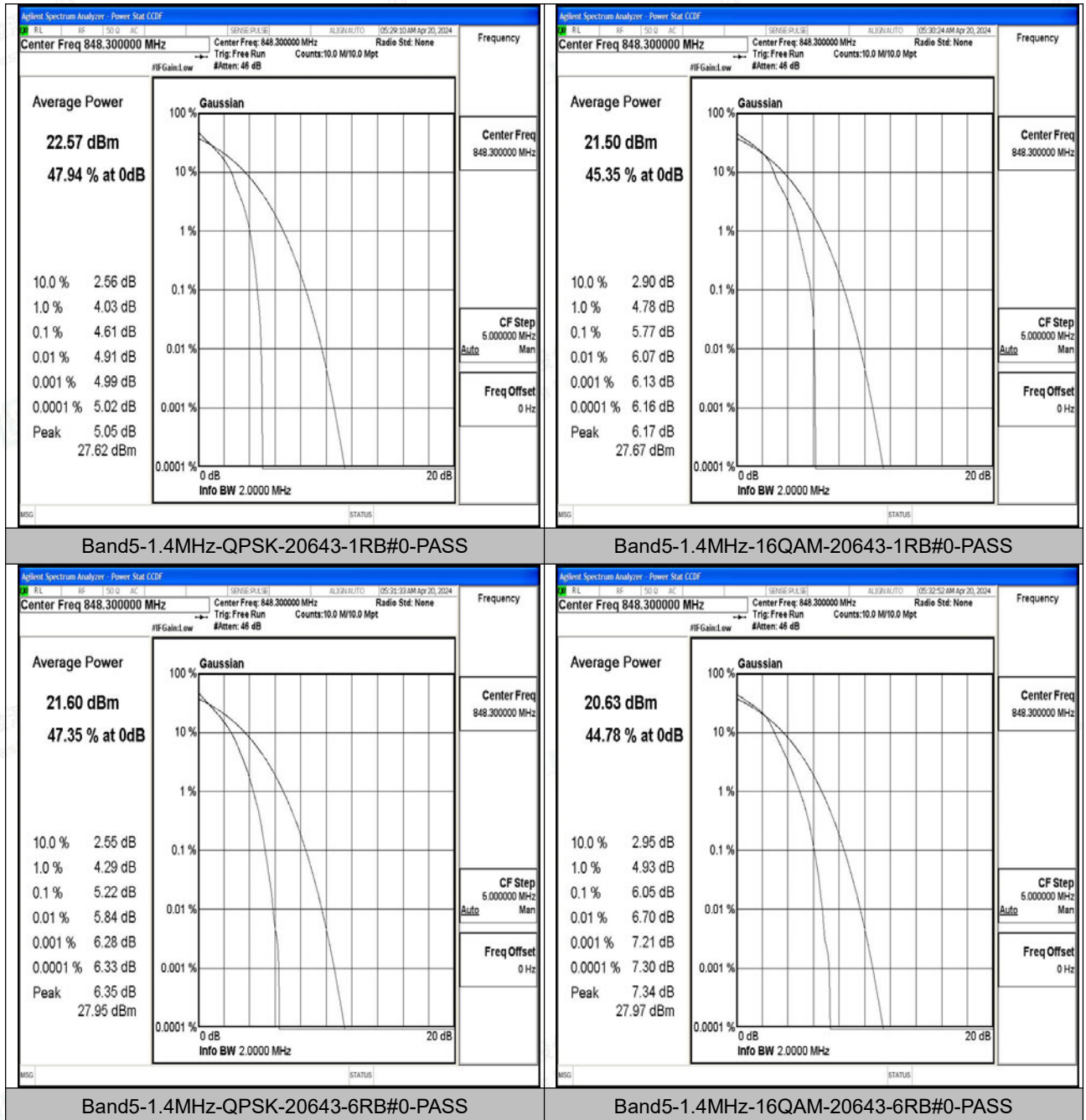


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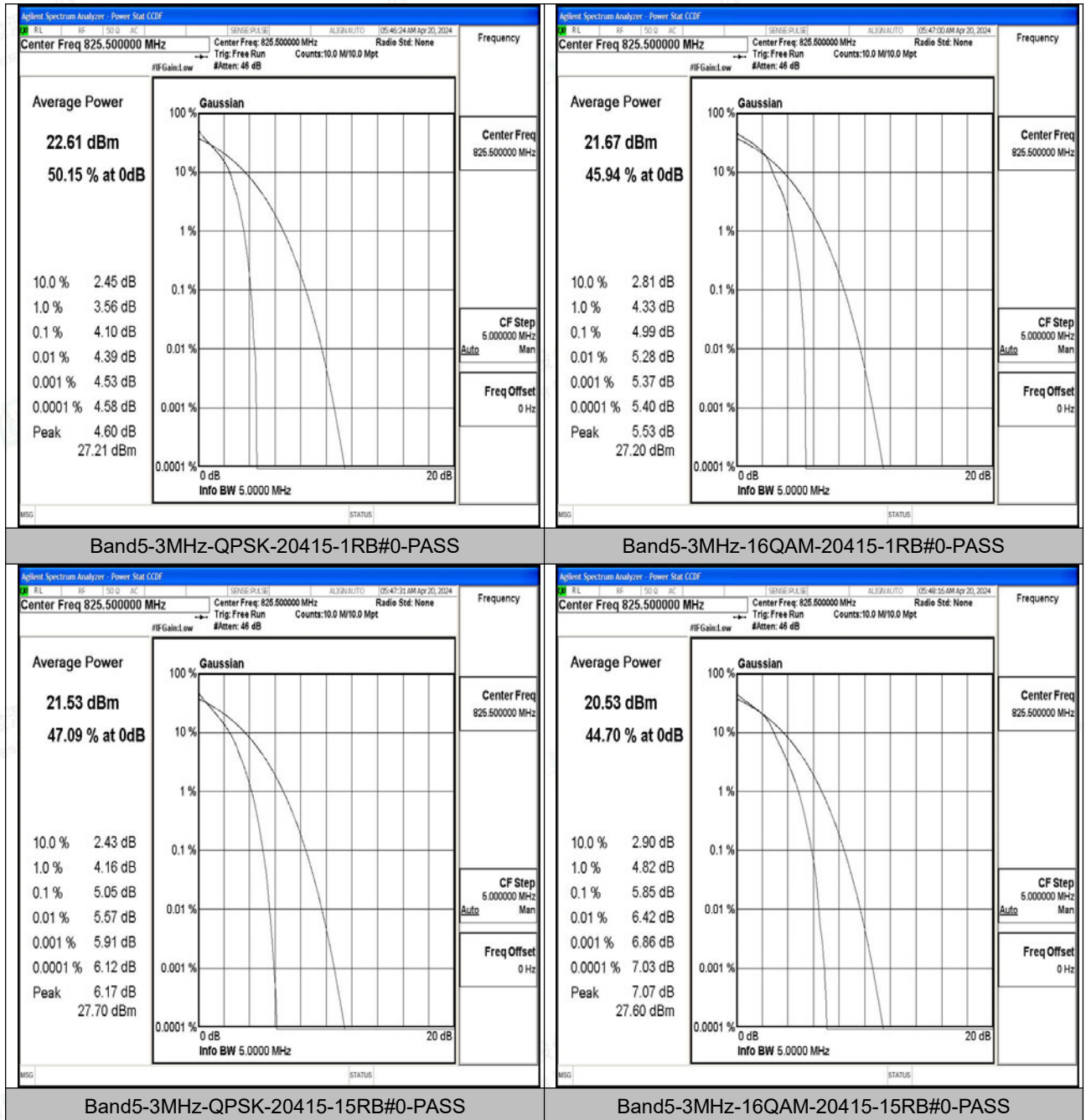


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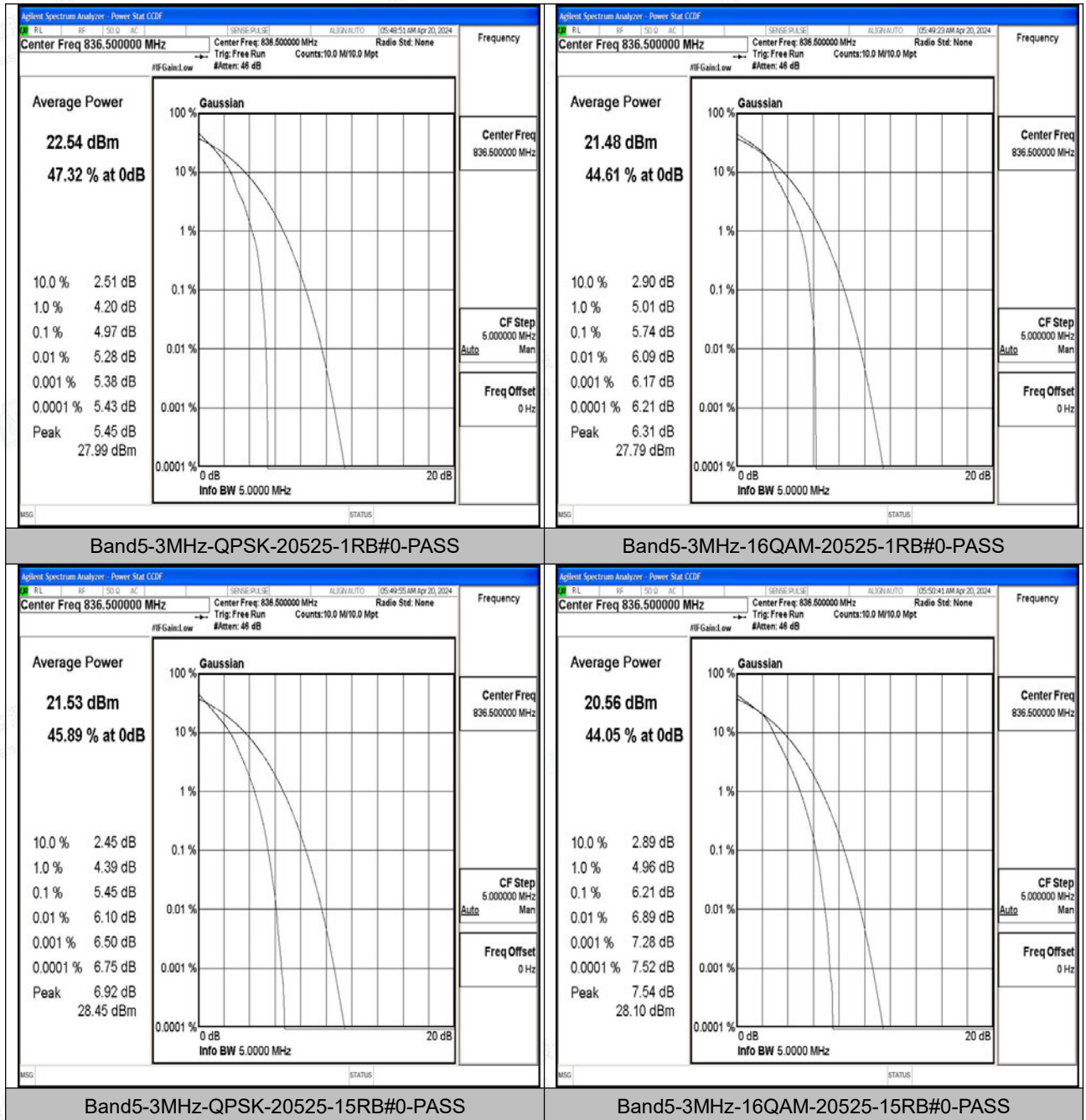


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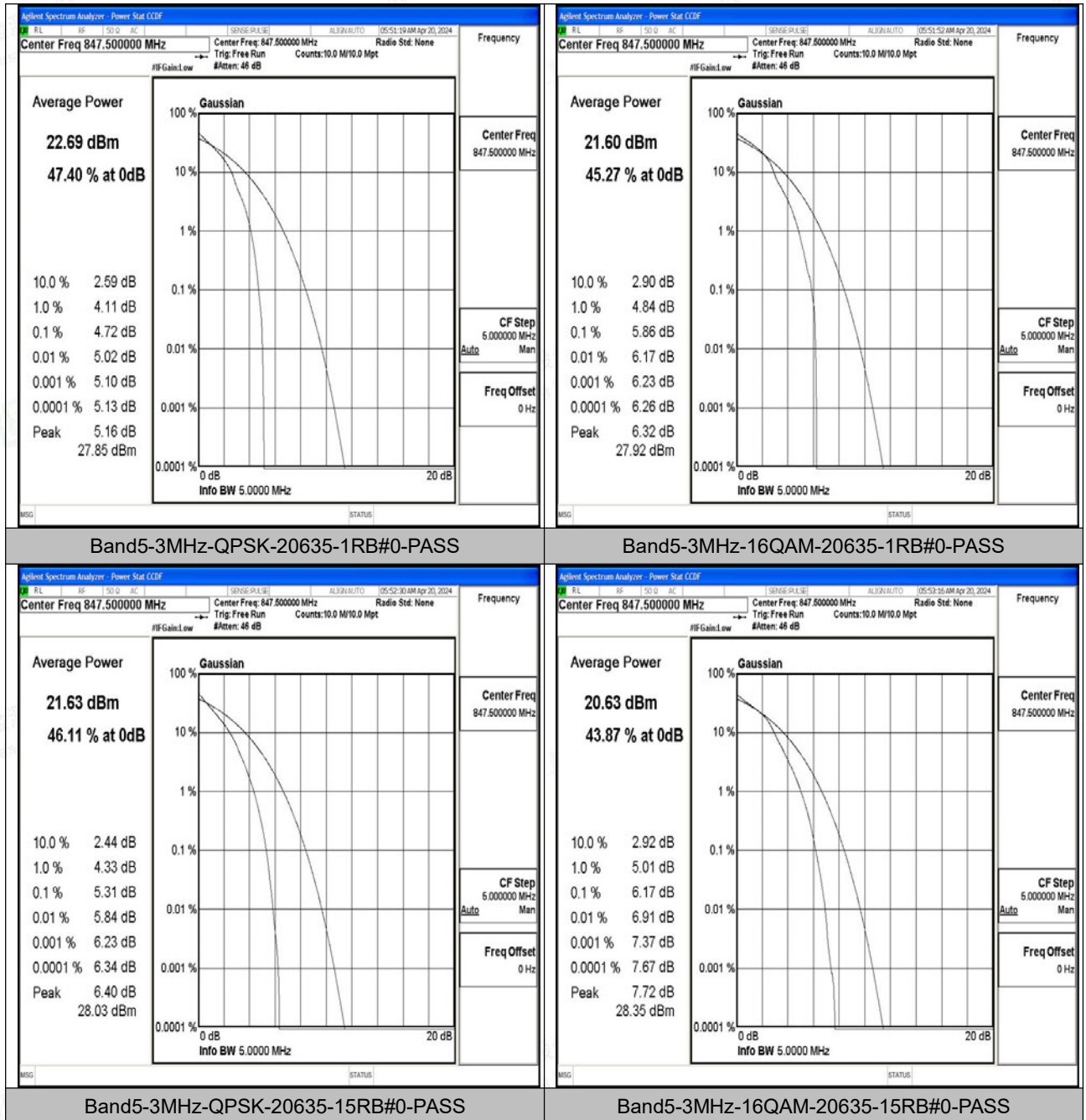


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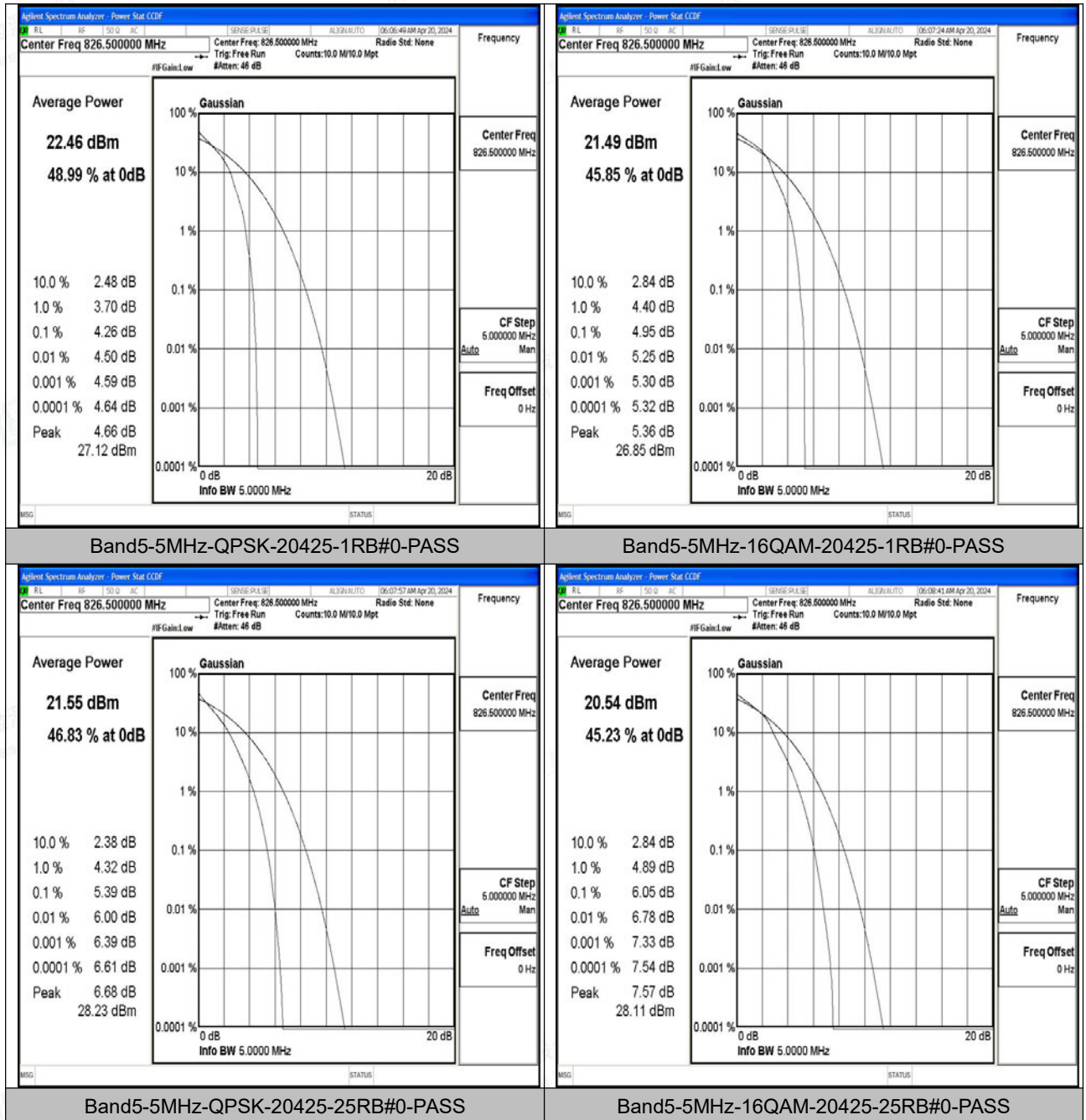


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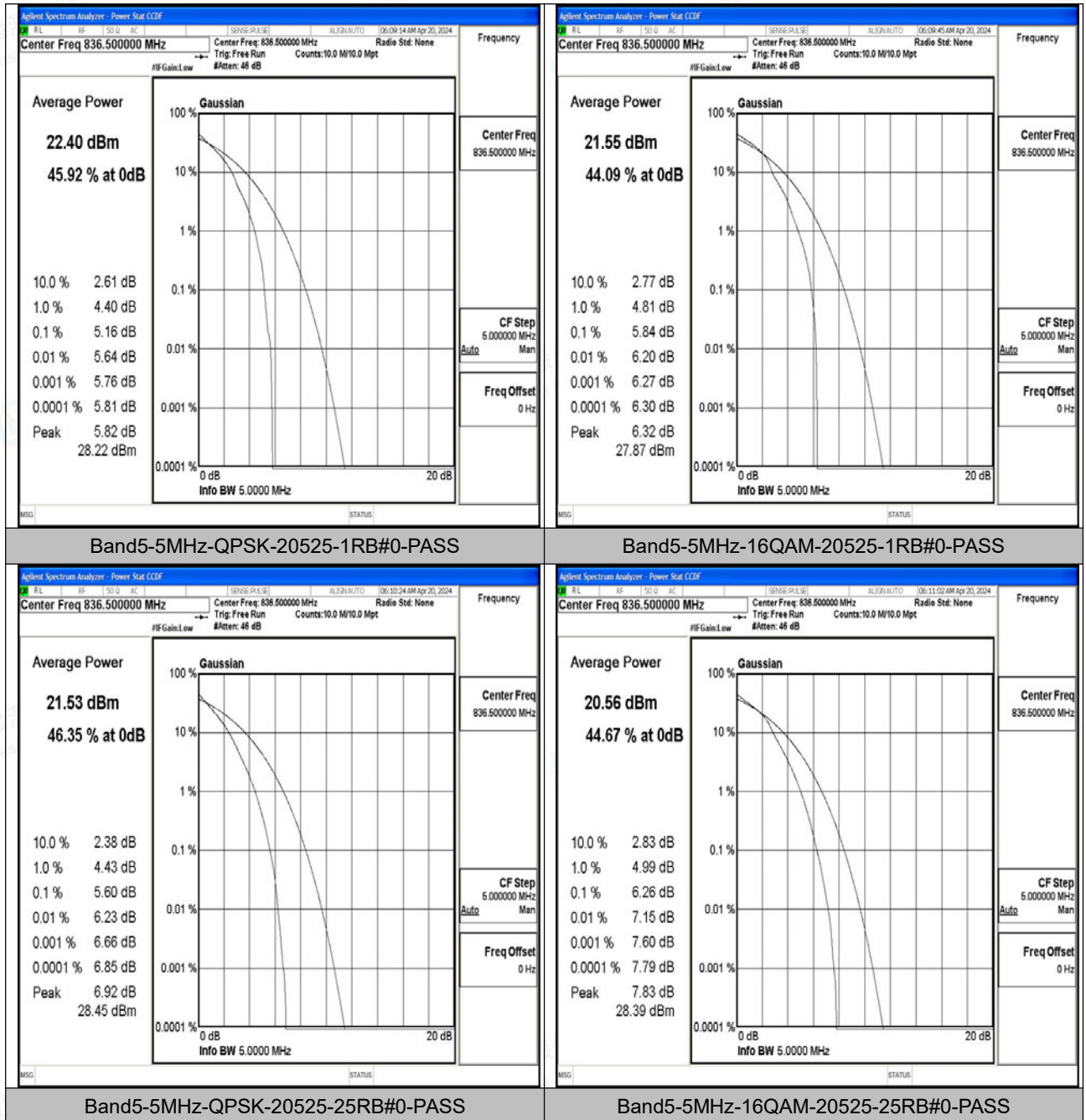


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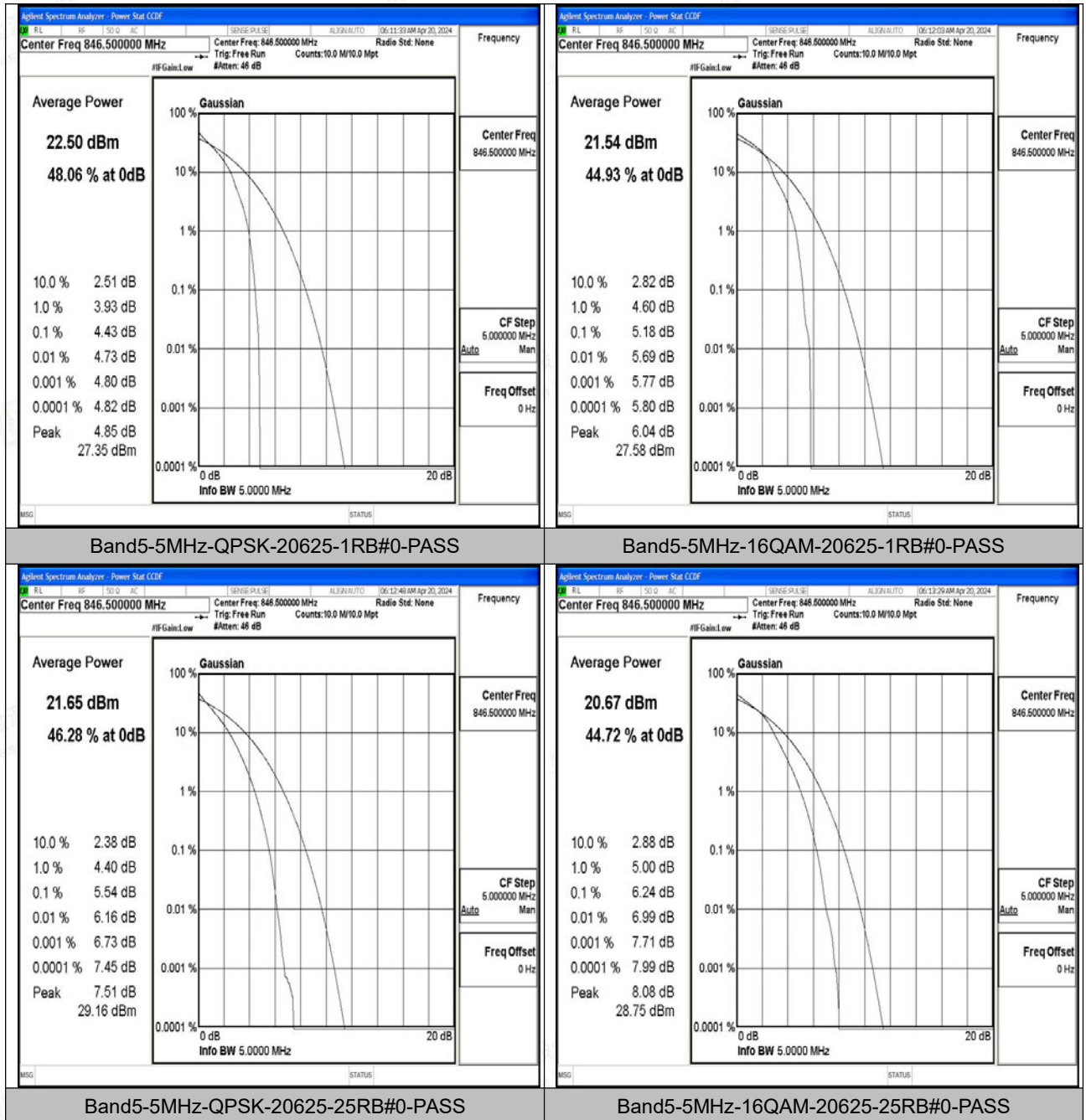


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Scan code to check authenticity

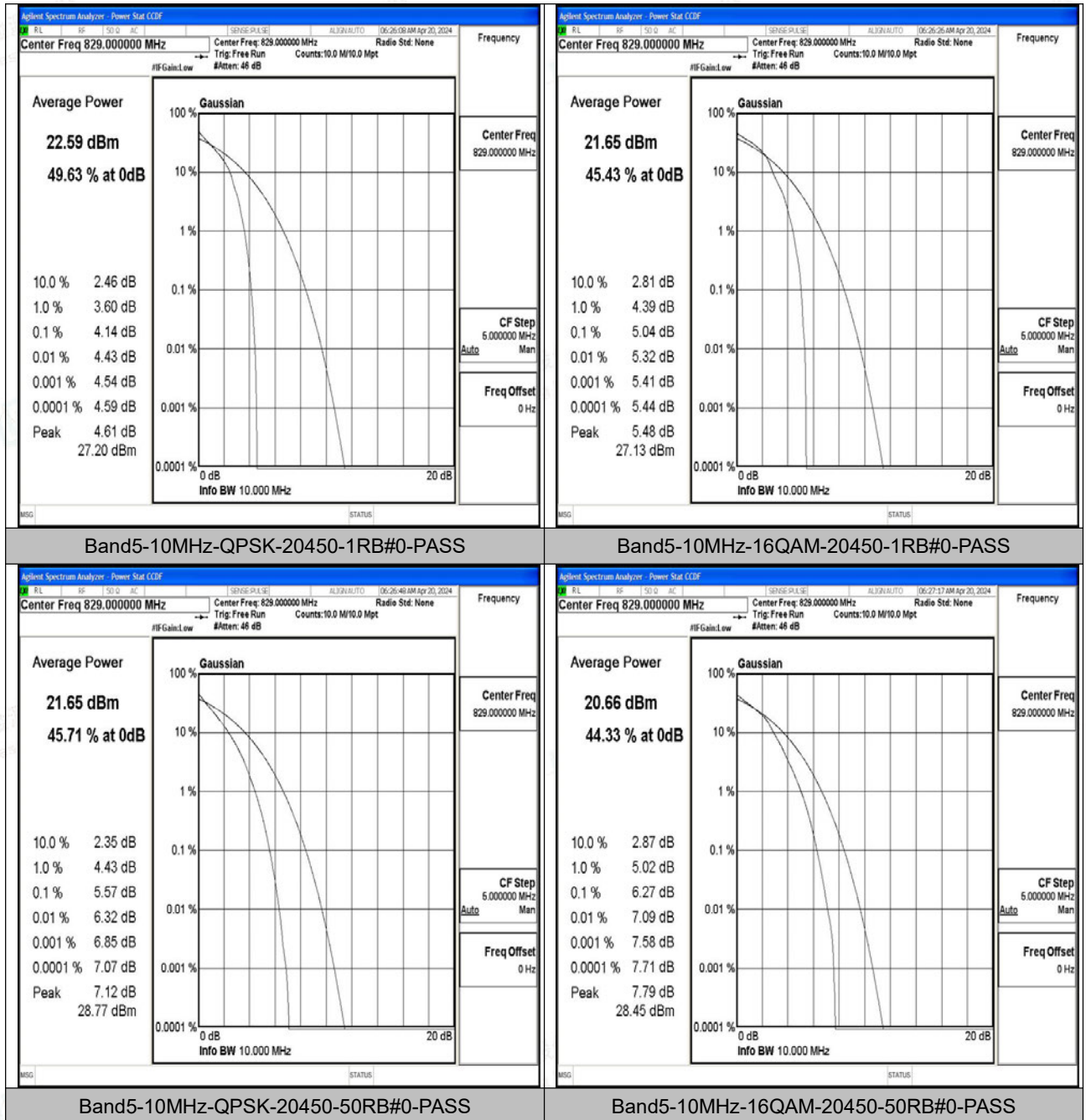


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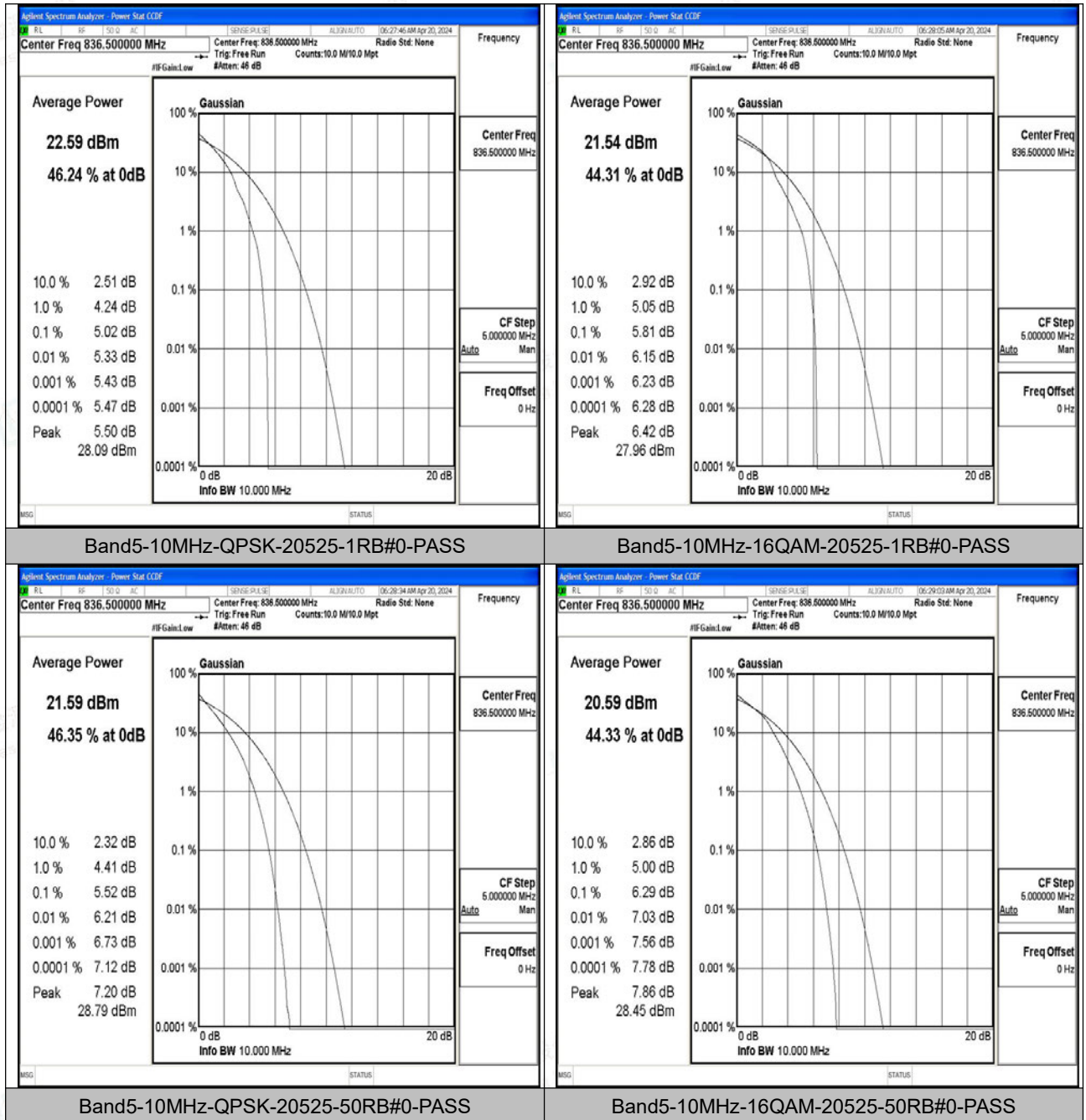


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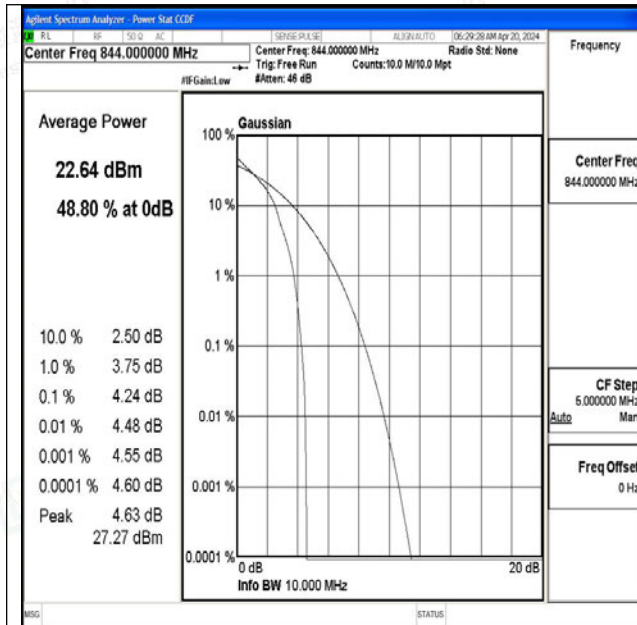


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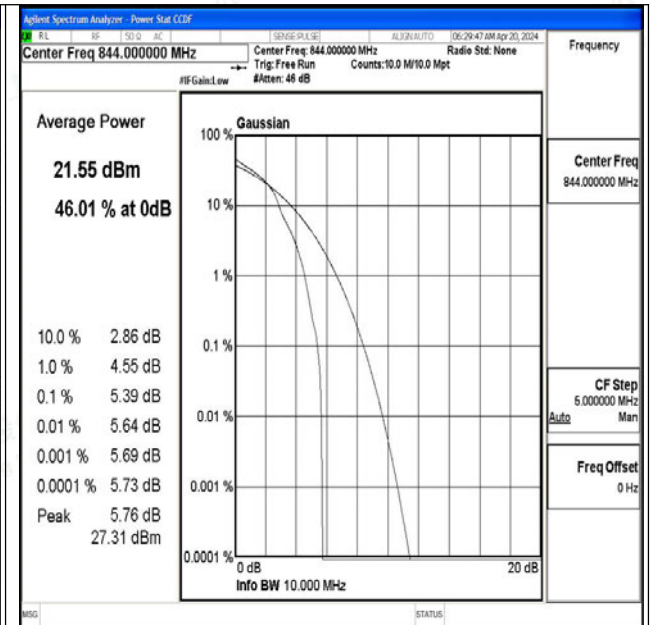
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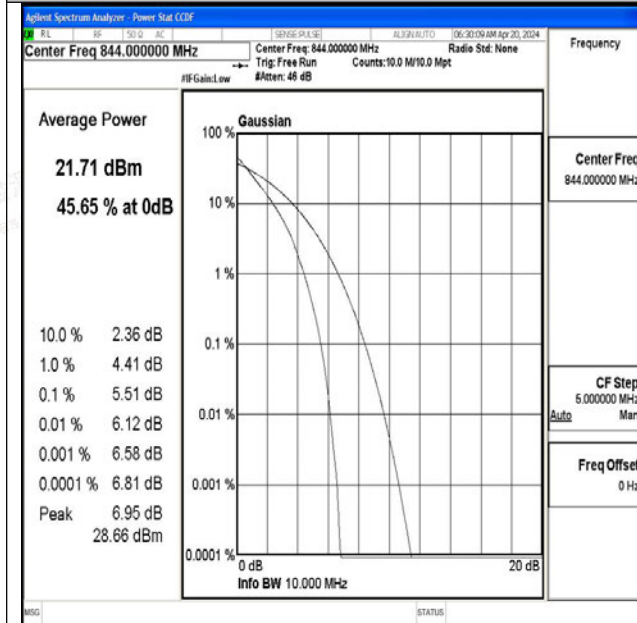
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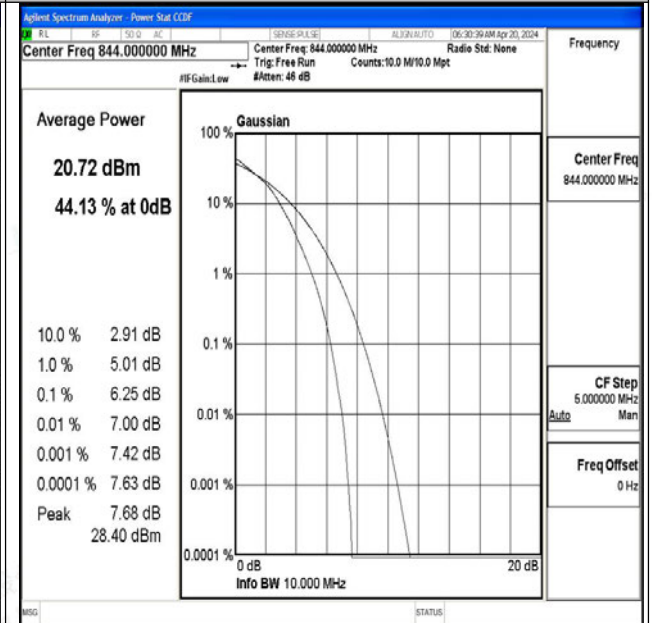
Band5-10MHz-QPSK-20600-1RB#0-PASS



Band5-10MHz-16QAM-20600-1RB#0-PASS



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



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



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F.3 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	1.0929	1.280	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0957	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0907	1.283	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0934	1.286	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0965	1.282	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0851	1.261	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6761	2.891	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6819	2.892	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6865	2.895	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6807	2.892	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6772	2.894	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6832	2.890	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4930	4.958	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4966	4.904	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4920	4.900	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4987	4.949	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5010	4.884	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4994	4.954	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0099	9.794	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0044	9.768	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9741	9.796	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9751	9.733	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9766	9.760	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9864	9.742	PASS



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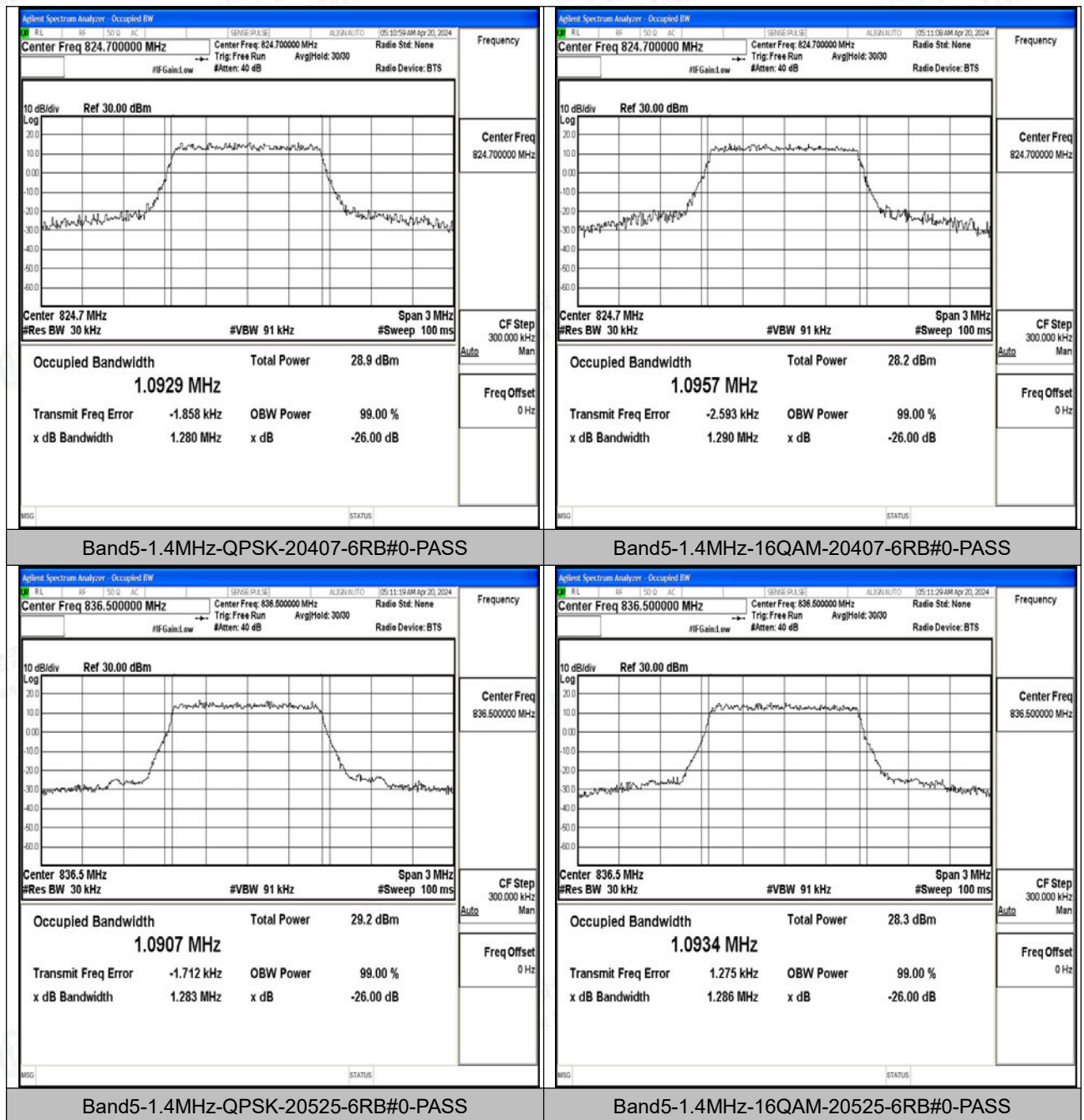
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Test Graphs

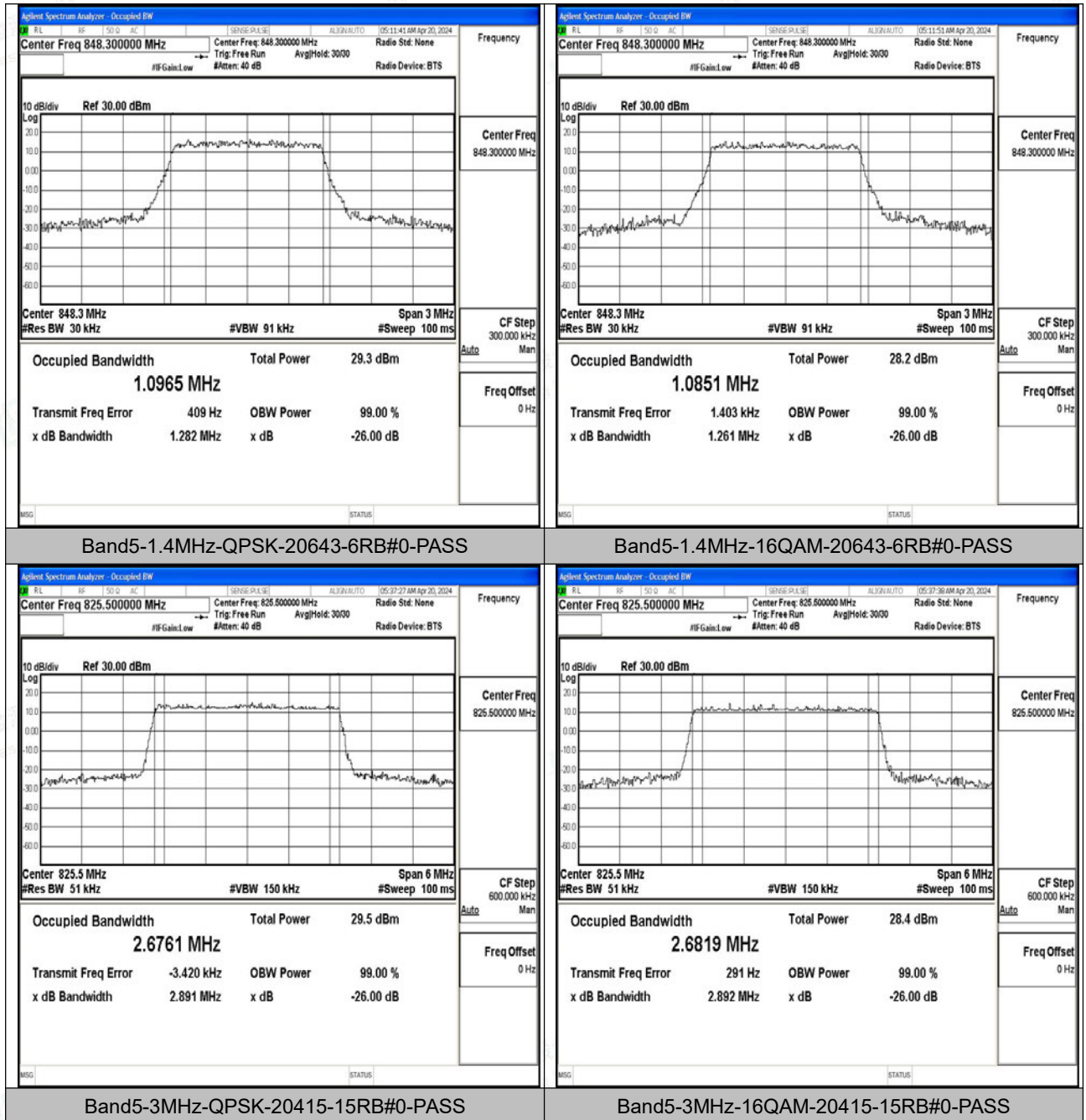


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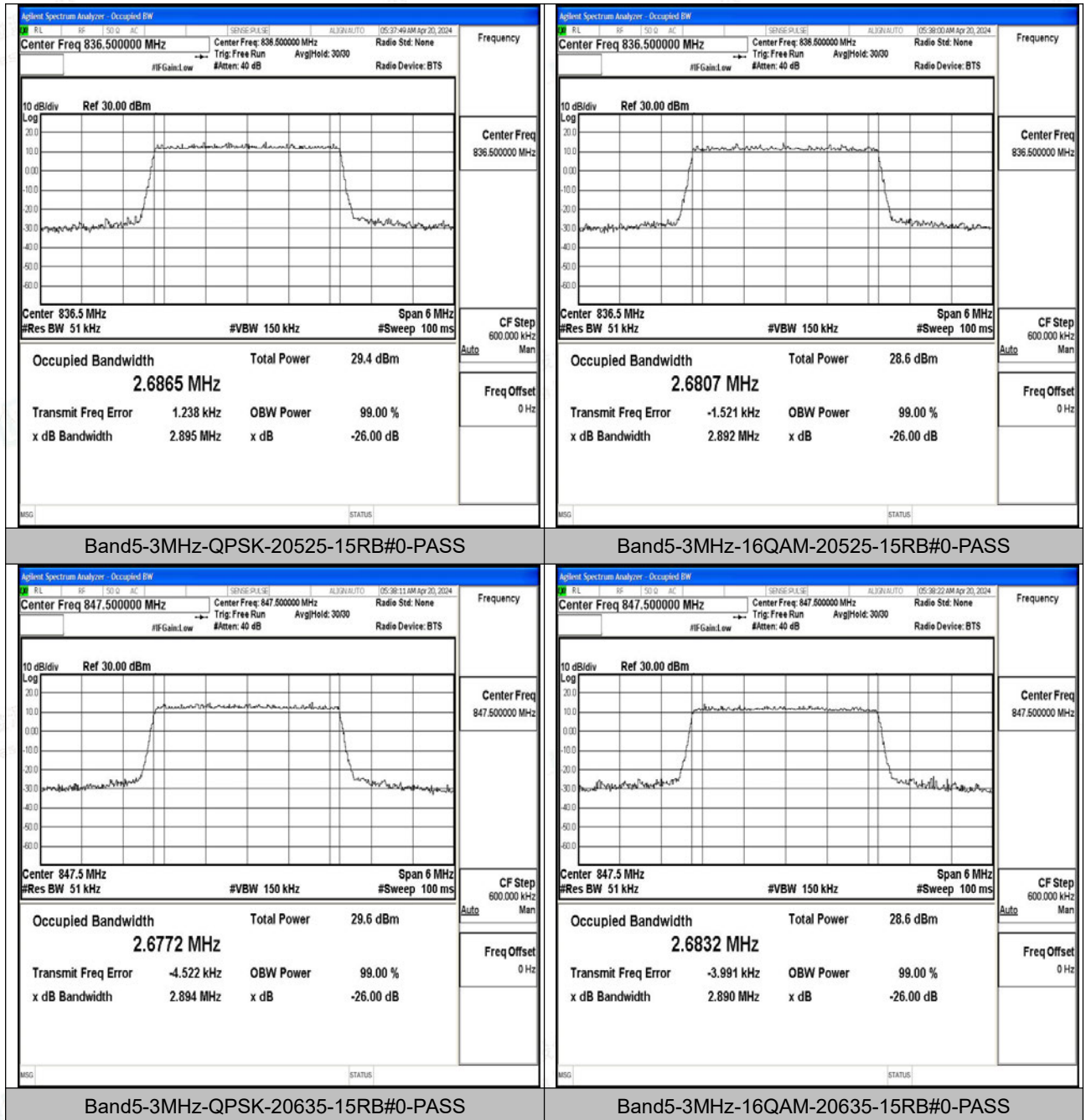


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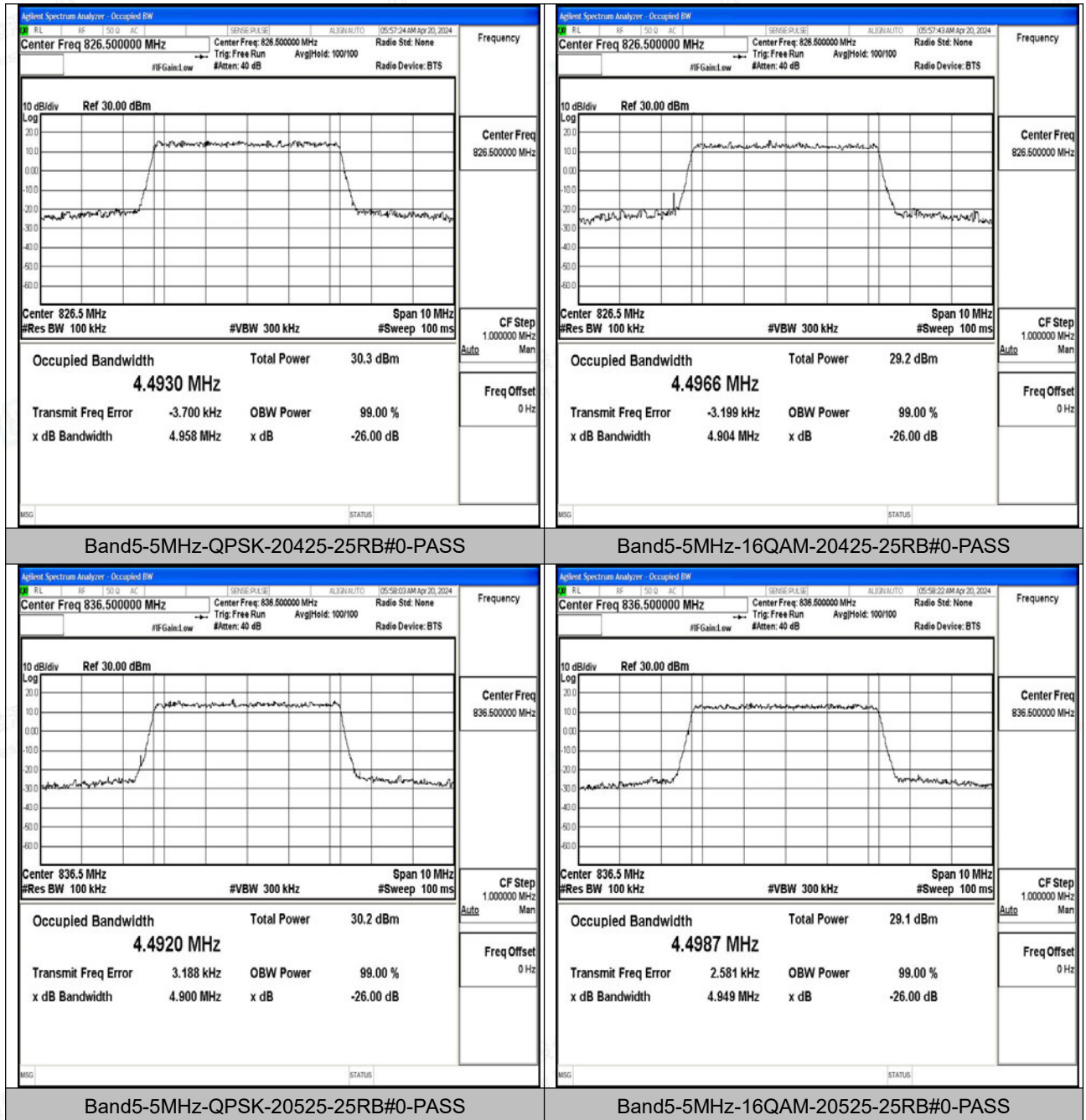


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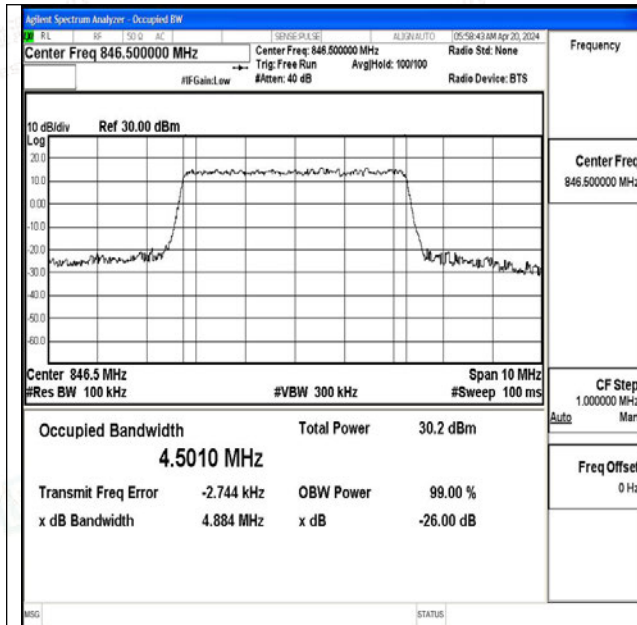


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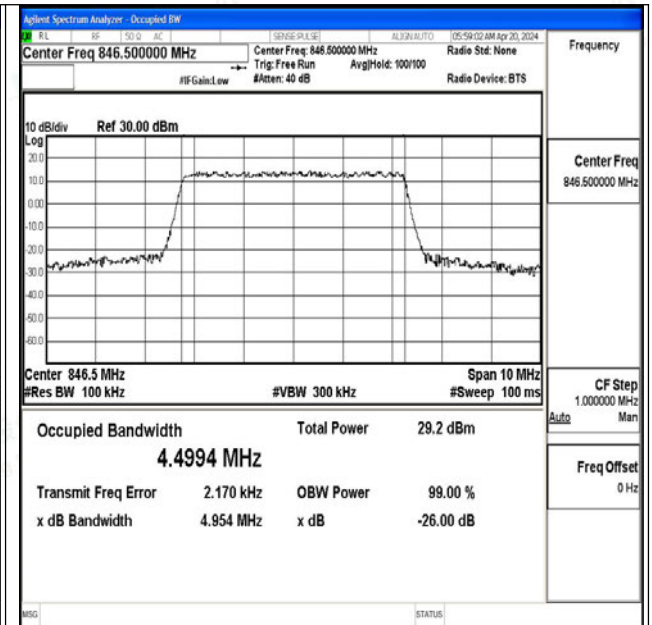
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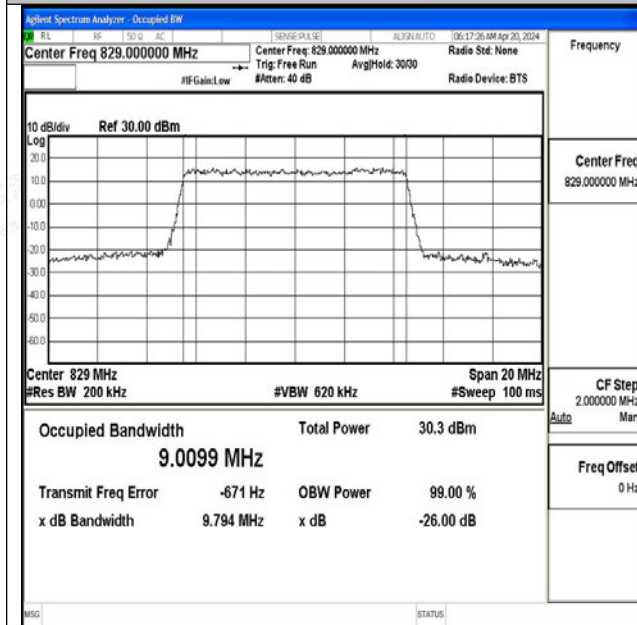
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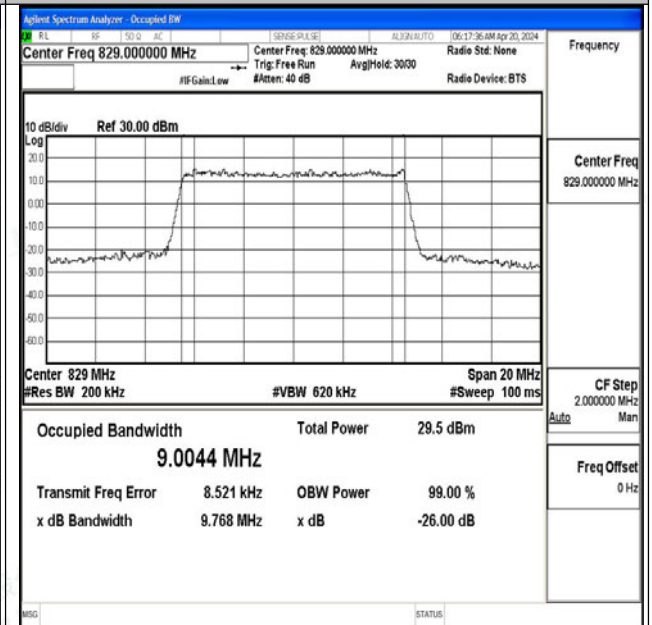
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Band5-5MHz-16QAM-20625-25RB#0-PASS



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



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

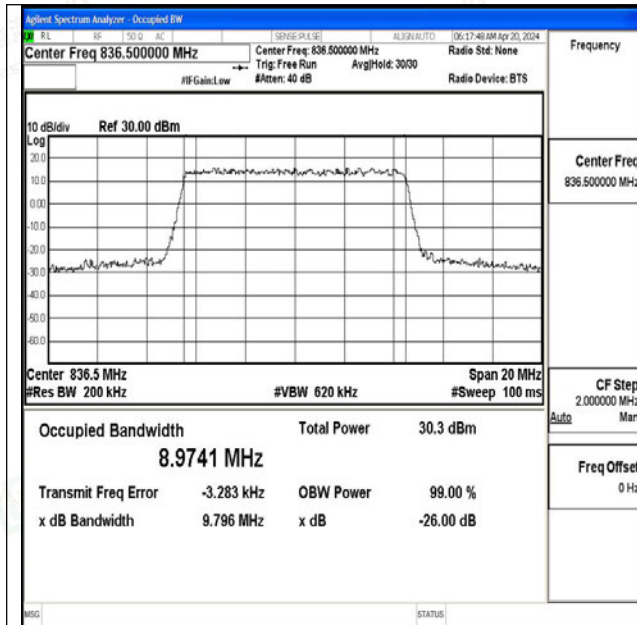


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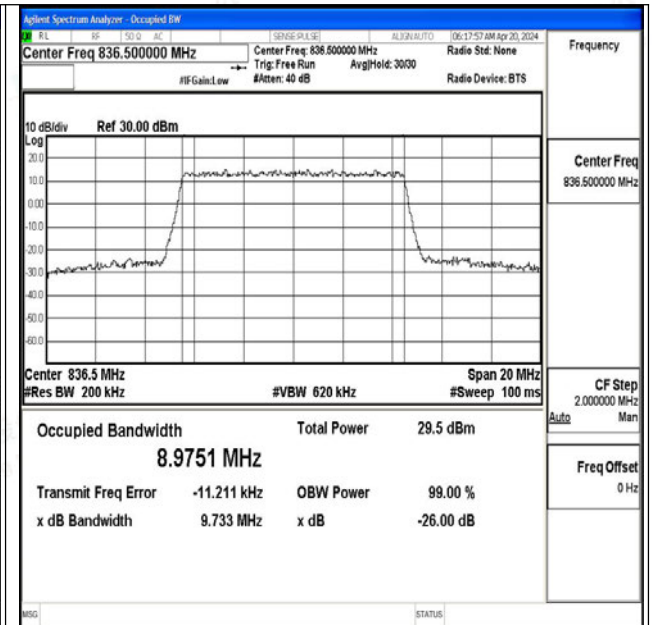
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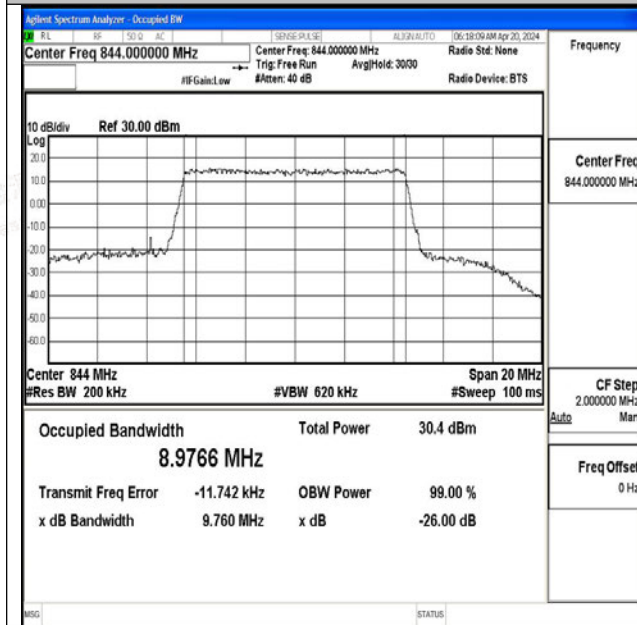
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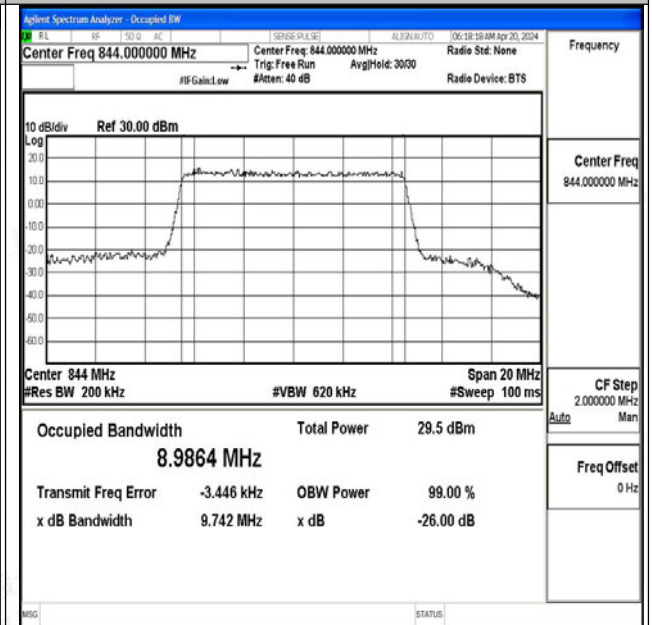
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Band5-10MHz-16QAM-20525-50RB#0-PASS



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



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



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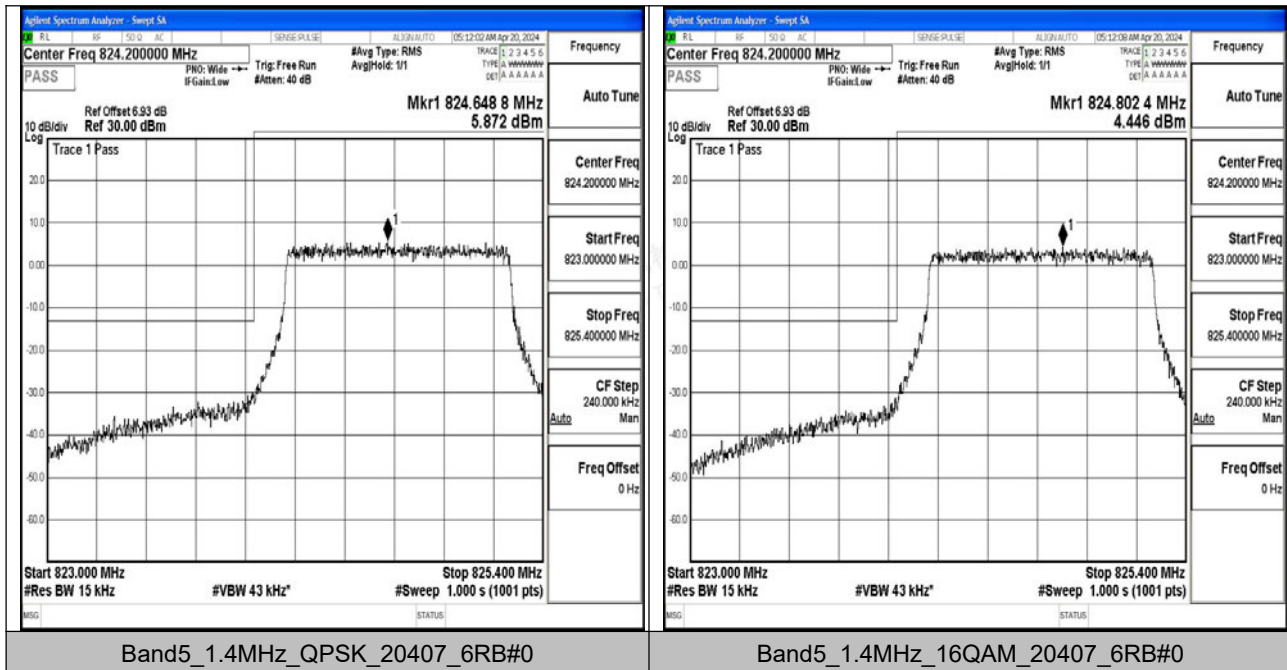


F.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-30.17	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-31.24	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-32.47	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-33.22	PASS
Band5	3MHz	QPSK	20415	15RB#0	-31.41	PASS
Band5	3MHz	16QAM	20415	15RB#0	-33.73	PASS
Band5	3MHz	QPSK	20635	15RB#0	-32.97	PASS
Band5	3MHz	16QAM	20635	15RB#0	-34.41	PASS
Band5	5MHz	QPSK	20425	25RB#0	-31.28	PASS
Band5	5MHz	16QAM	20425	25RB#0	-31.77	PASS
Band5	5MHz	QPSK	20625	25RB#0	-33.47	PASS
Band5	5MHz	16QAM	20625	25RB#0	-33.38	PASS
Band5	10MHz	QPSK	20450	50RB#0	-32.09	PASS
Band5	10MHz	16QAM	20450	50RB#0	-34.44	PASS
Band5	10MHz	QPSK	20600	50RB#0	-34.50	PASS
Band5	10MHz	16QAM	20600	50RB#0	-35.86	PASS

Test Graphs

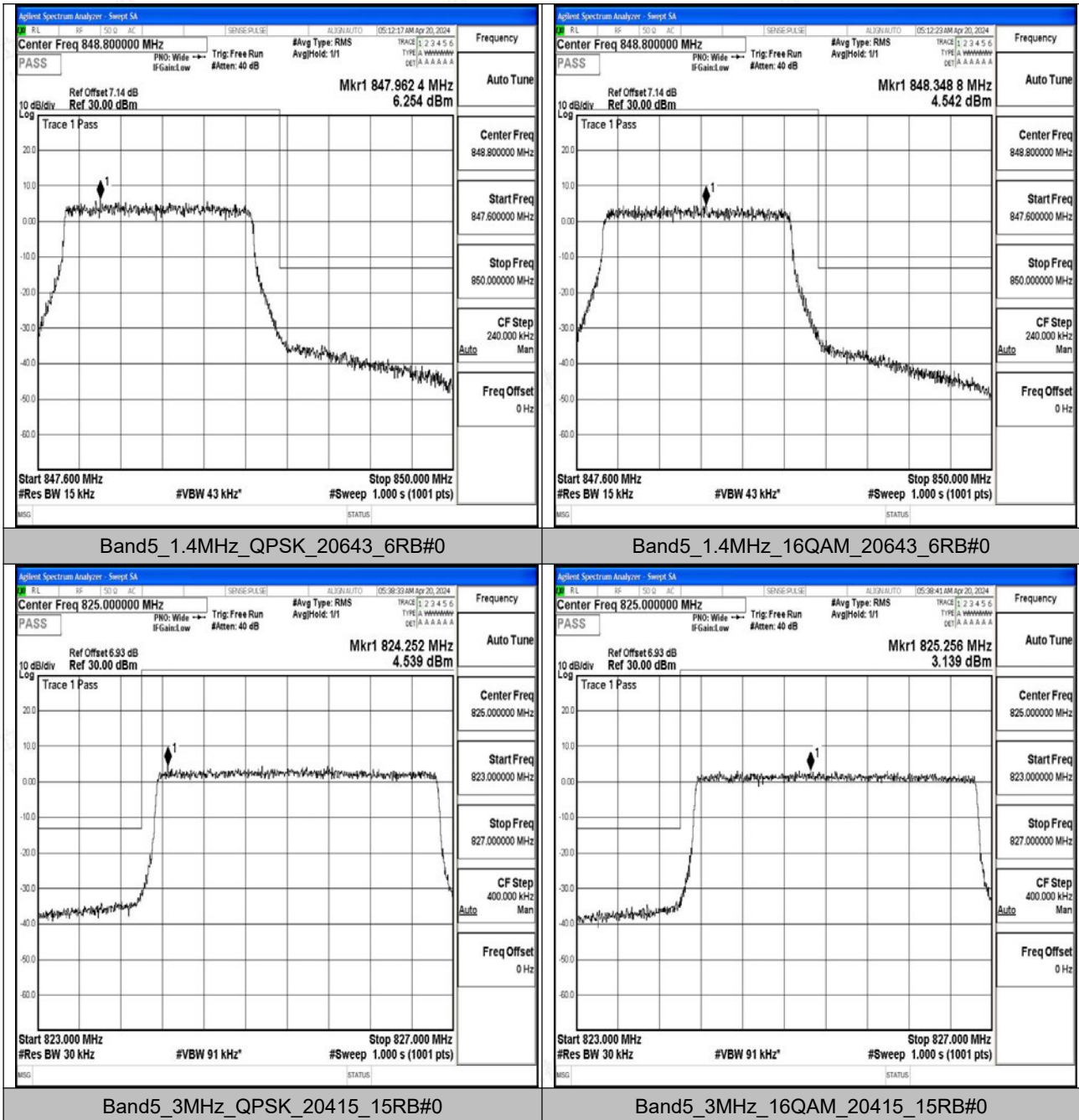


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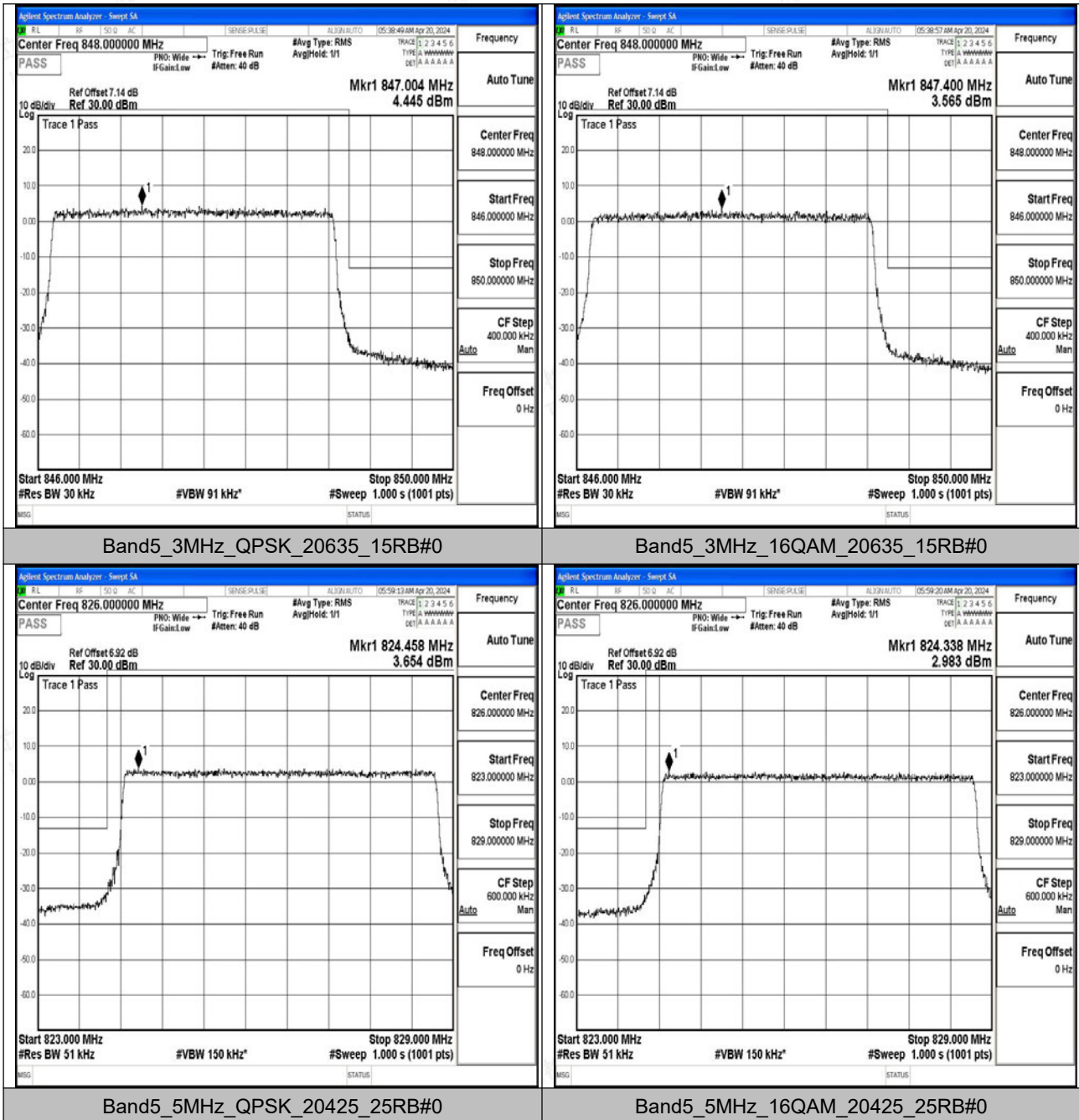


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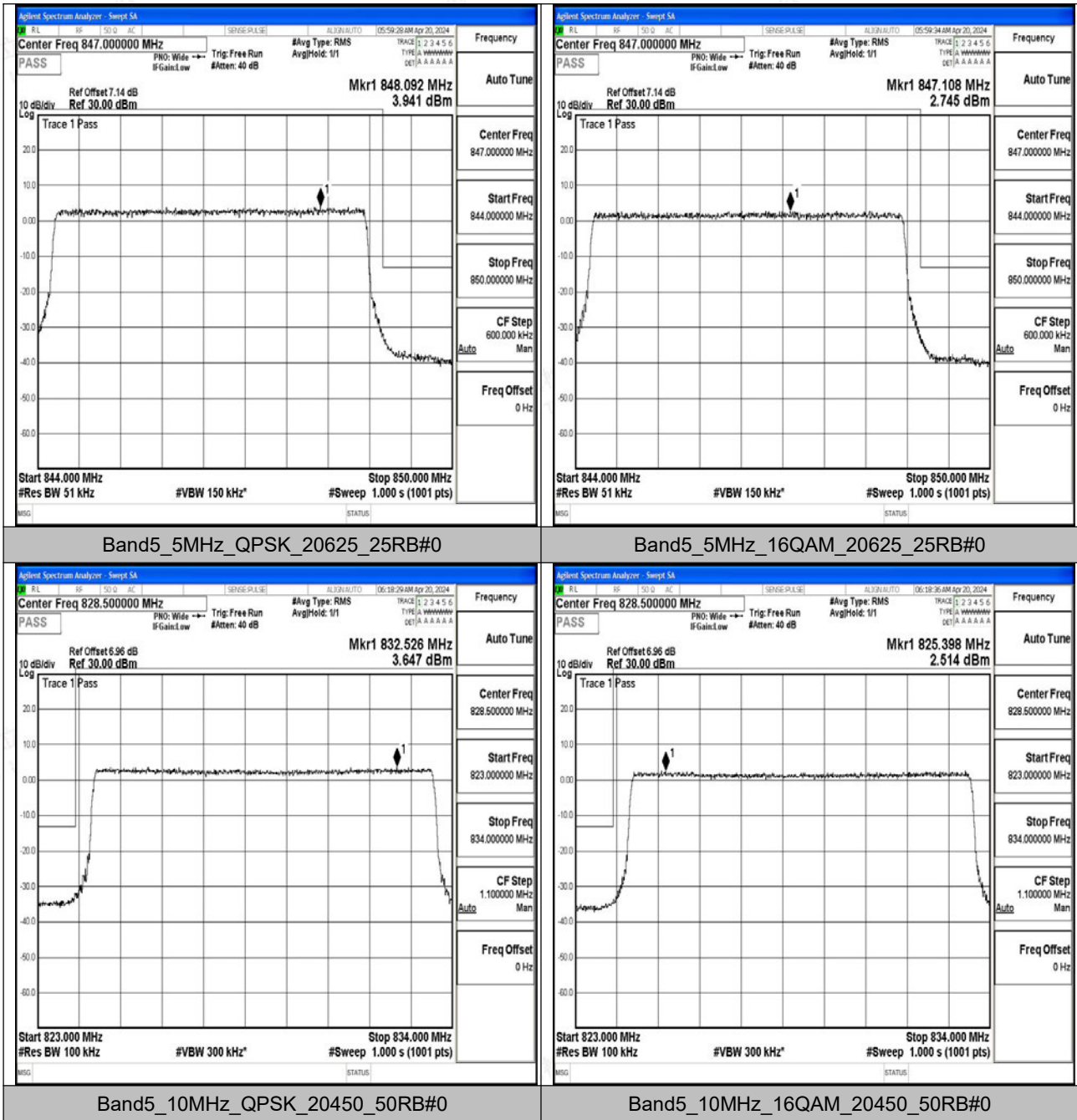


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