



Appendix C: Test Data for E-UTRA Band 5

Product Name: 4G module

Test Model: Air780E

Environmental Conditions

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



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C.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.92	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.81	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.90	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.85	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.91	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.86	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.95	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.33	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.05	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.35	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.86	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.30	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.97	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.75	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.95	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.97	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.85	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.96	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.04	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.06	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.94	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.59	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.06	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.59	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.10	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.53	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.16	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.73	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.82	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.04	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.52	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.44	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.70	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.56	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.93	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	22.41	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.85	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.40	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.27	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.72	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.11	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.72	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.72	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.19	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.81	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.16	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.84	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.27	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.84	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.44	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.85	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.48	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.81	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.50	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.74	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.24	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.79	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.57	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.74	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.63	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.98	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.51	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.96	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.63	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.93	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.57	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.89	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.66	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.32	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.83	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.15	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.71	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.16	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.98	PASS



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Band5	3MHz	16QAM	20635	1RB#14	21.61	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.10	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.69	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.06	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.68	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.98	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.59	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.90	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.50	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.72	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.61	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.63	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.71	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.69	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.80	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.22	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.80	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.10	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.68	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.36	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.90	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.55	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.50	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.78	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.66	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.73	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.73	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.37	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.86	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.34	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.64	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.31	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.95	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.13	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.66	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.08	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.51	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.02	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.47	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.18	PASS





Band5	5MHz	16QAM	20625	25RB#0	21.59	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.68	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.33	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.71	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.42	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.81	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.46	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.86	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.29	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.86	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.30	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.88	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.30	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.11	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.34	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.75	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.50	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.00	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.76	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.95	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.84	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.96	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.54	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.97	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.53	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.03	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.98	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.56	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.90	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.00	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.87	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.94	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.57	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.50	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.11	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.80	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.00	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.82	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.06	PASS



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Band5	10MHz	16QAM	20600	25RB#25	21.79	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.07	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.66	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.93	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.87	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.90	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.31	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.96	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.52	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.00	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.67	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.77	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.83	PASS





C.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	4.82	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.15	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.50	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.10	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.63	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.39	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.40	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.96	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.97	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.55	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.42	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.09	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.93	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.68	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.59	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.25	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.71	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.10	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.57	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.04	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.10	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.04	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.80	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.46	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.07	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.65	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.62	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.21	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.82	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.23	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.53	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.12	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.04	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.38	13	PASS



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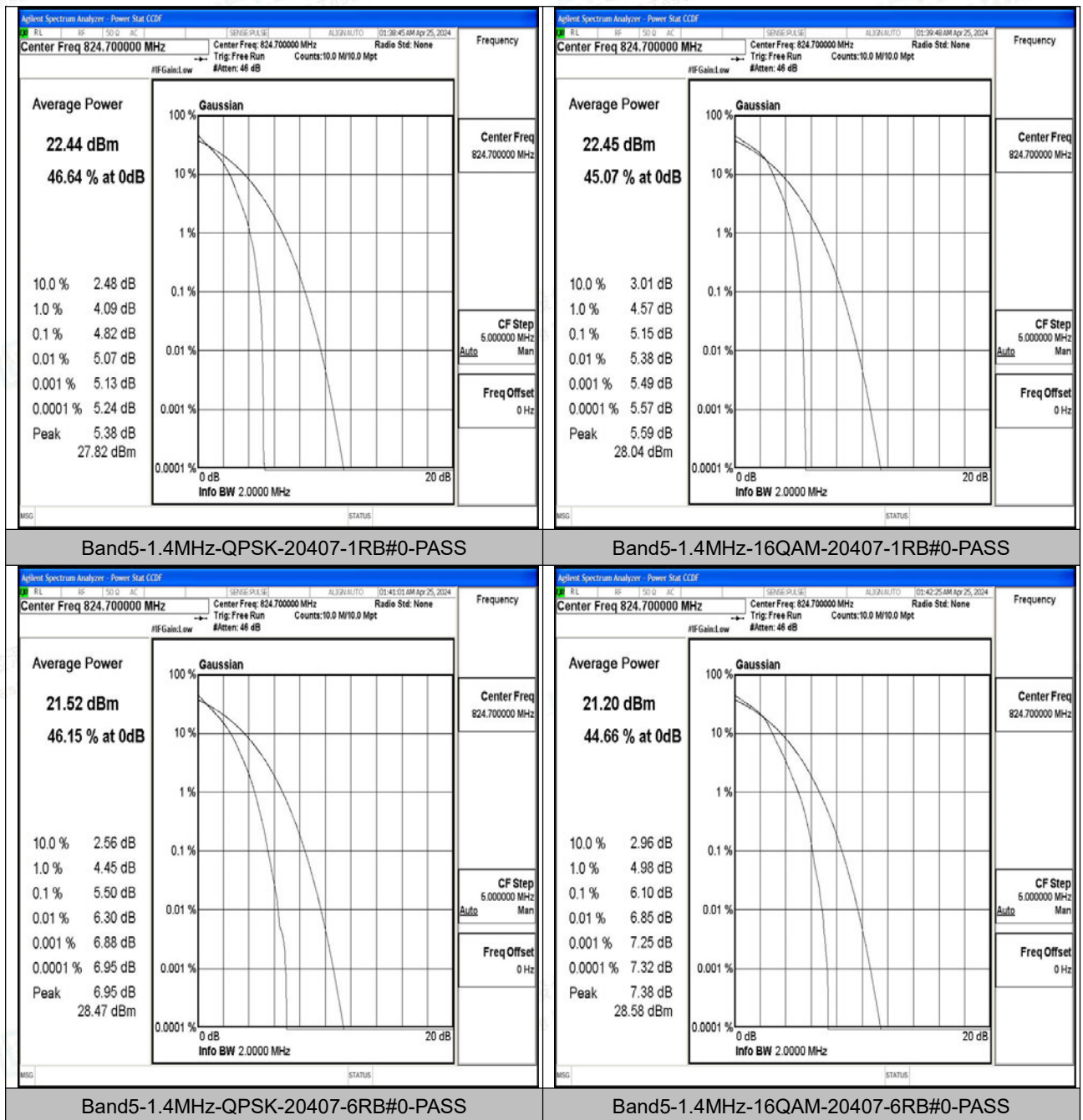


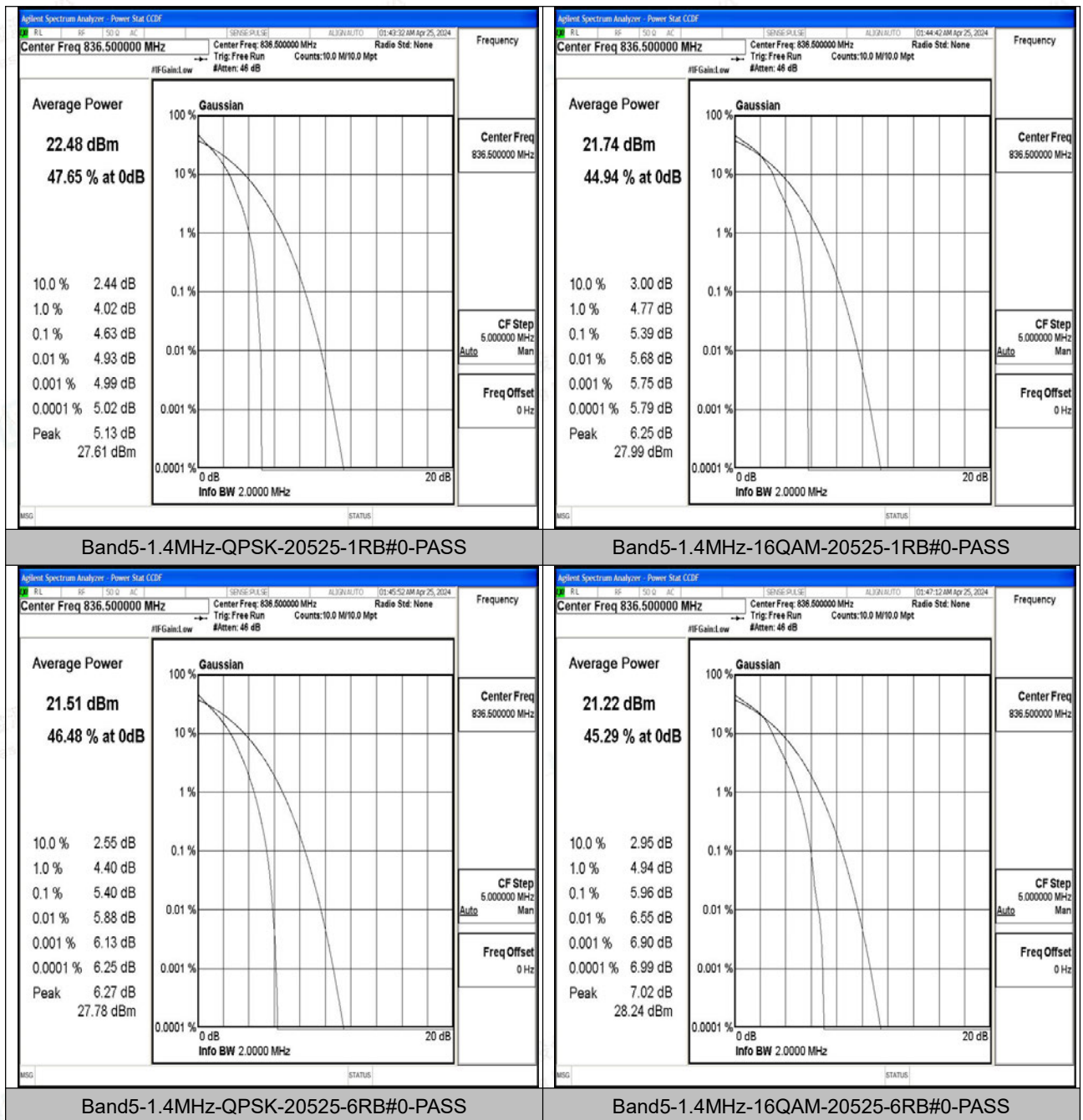
Band5	5MHz	QPSK	20625	25RB#0	5.31	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.86	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.01	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.46	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.55	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.18	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.13	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.52	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.15	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.66	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.78	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.29	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.92	13	PASS

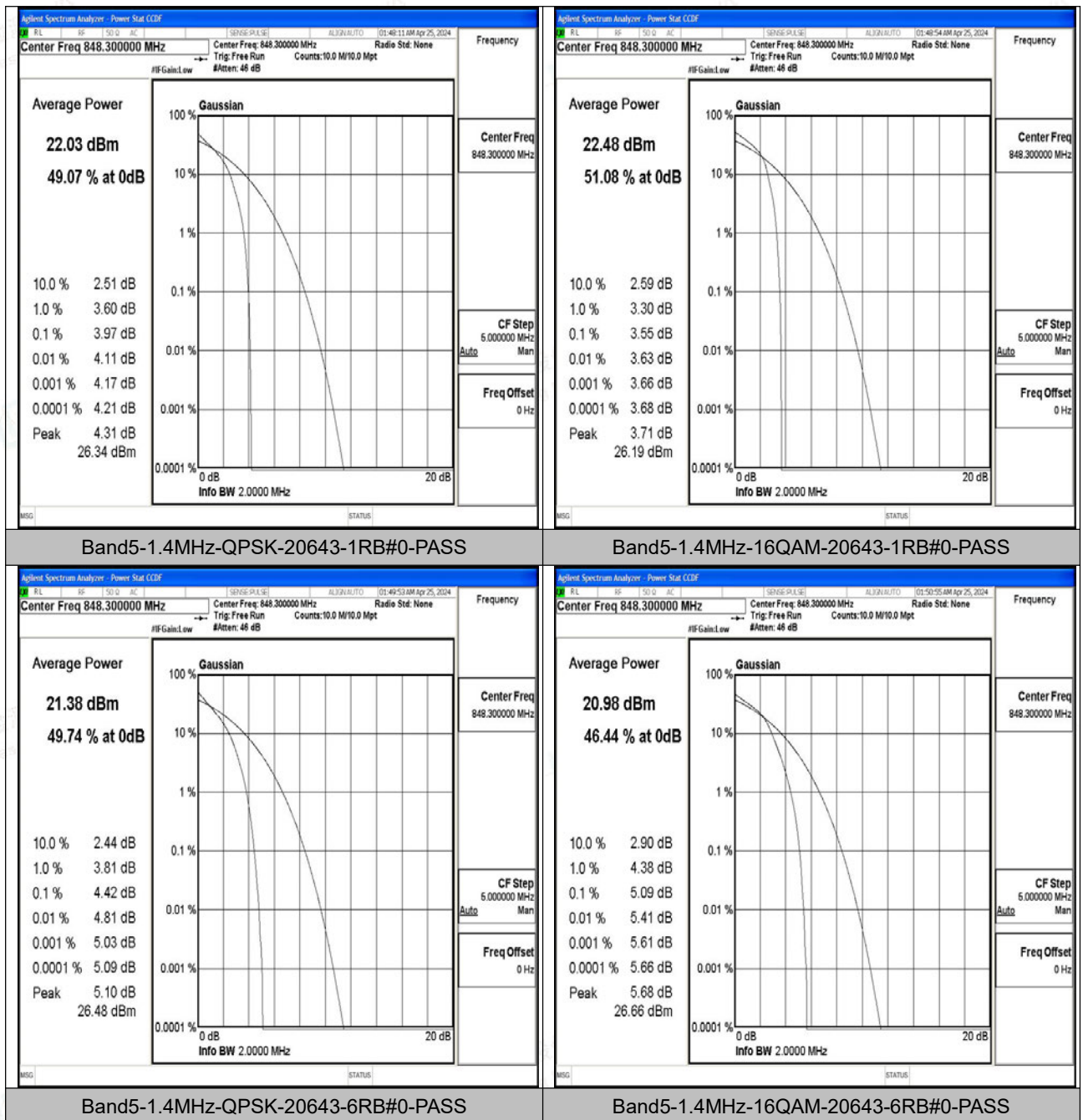


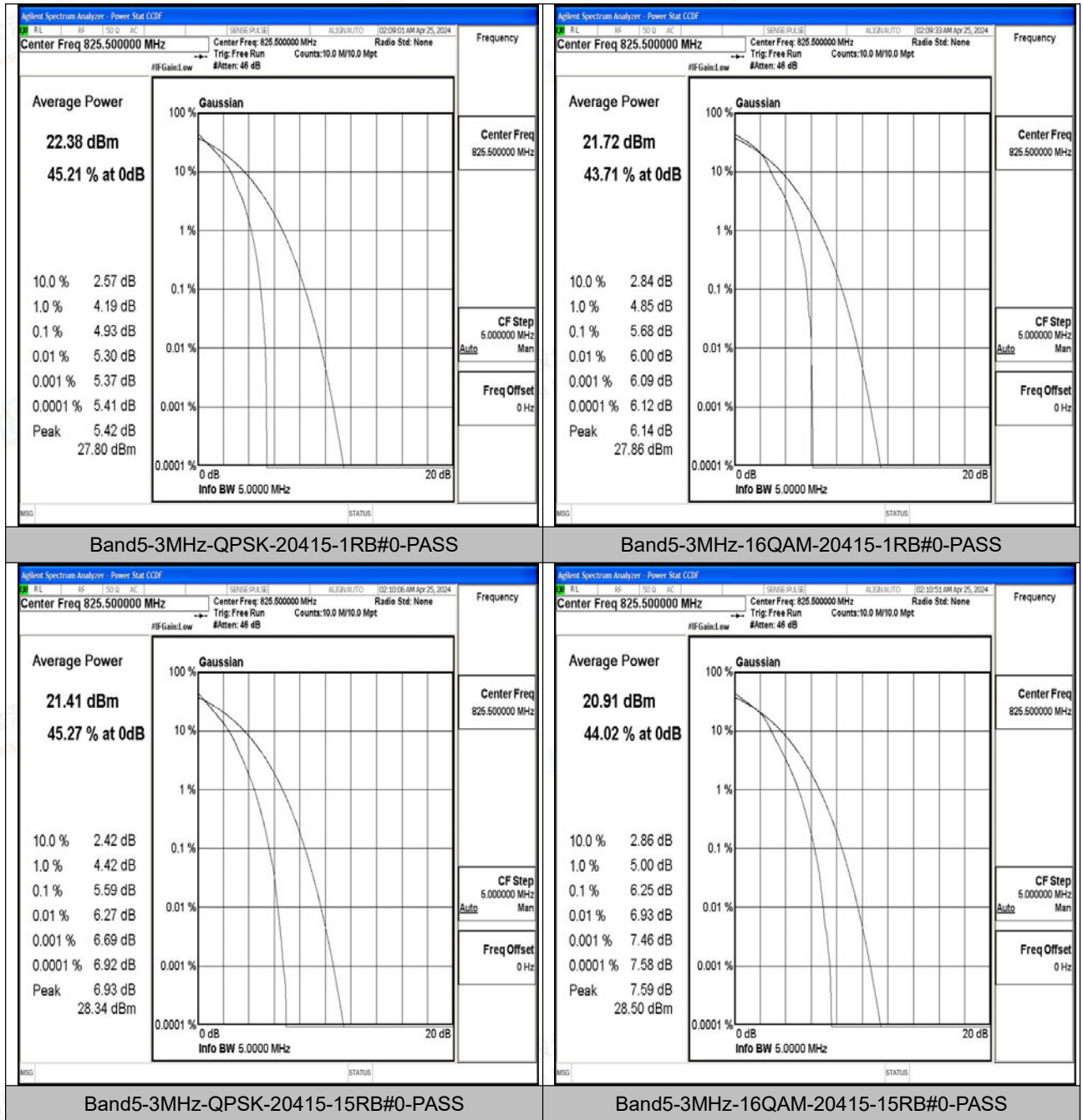


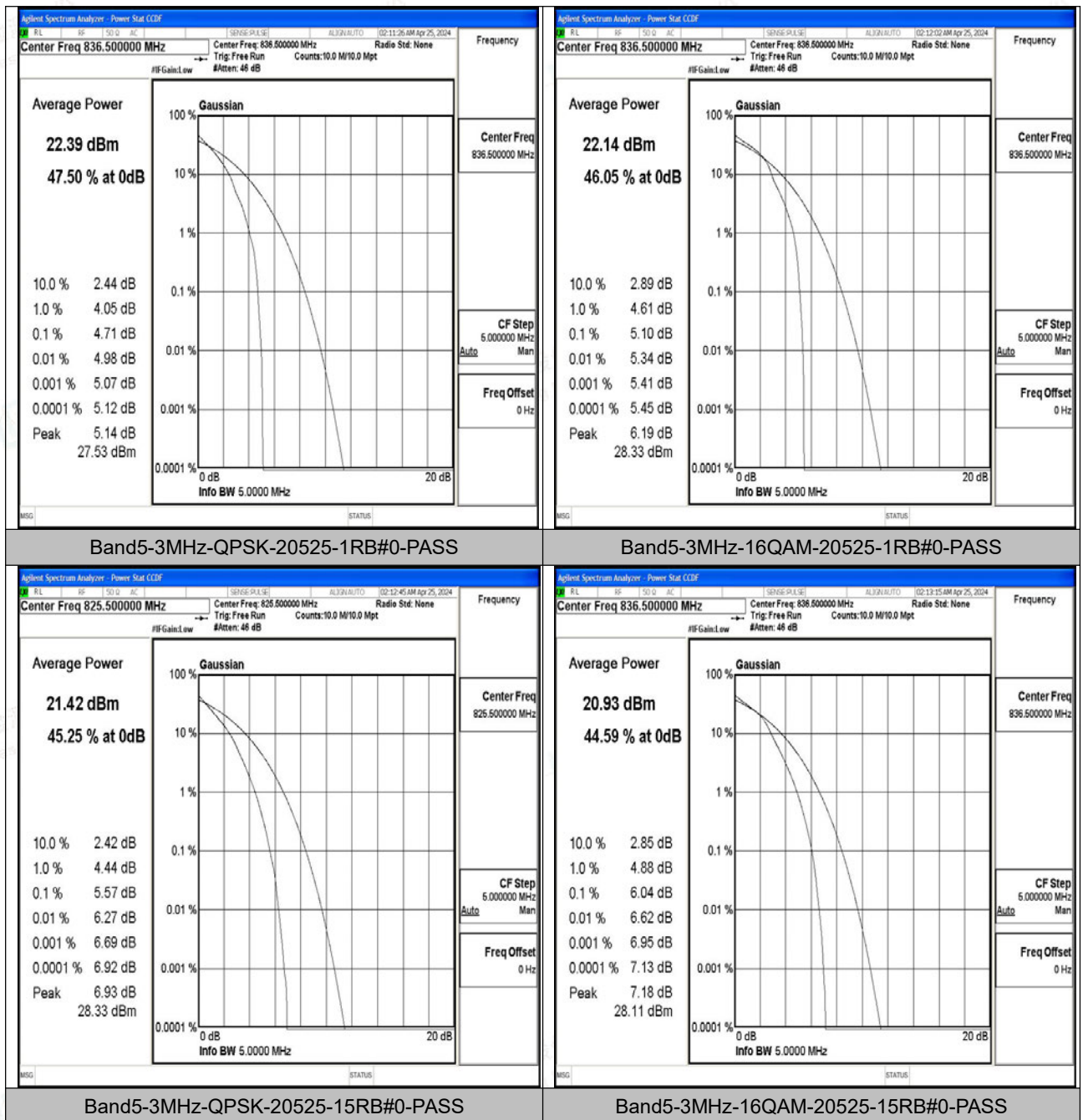
Test Graphs









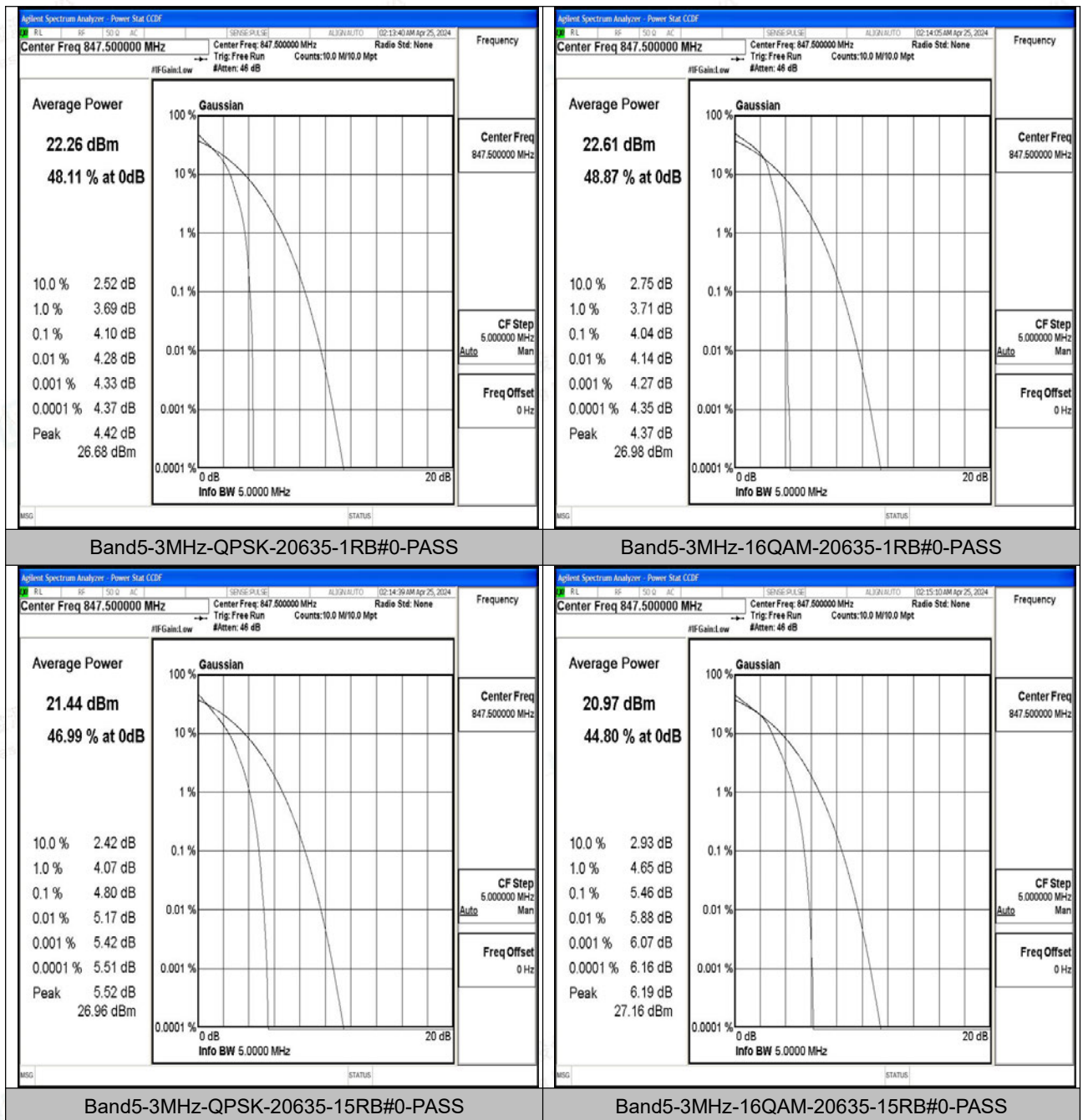


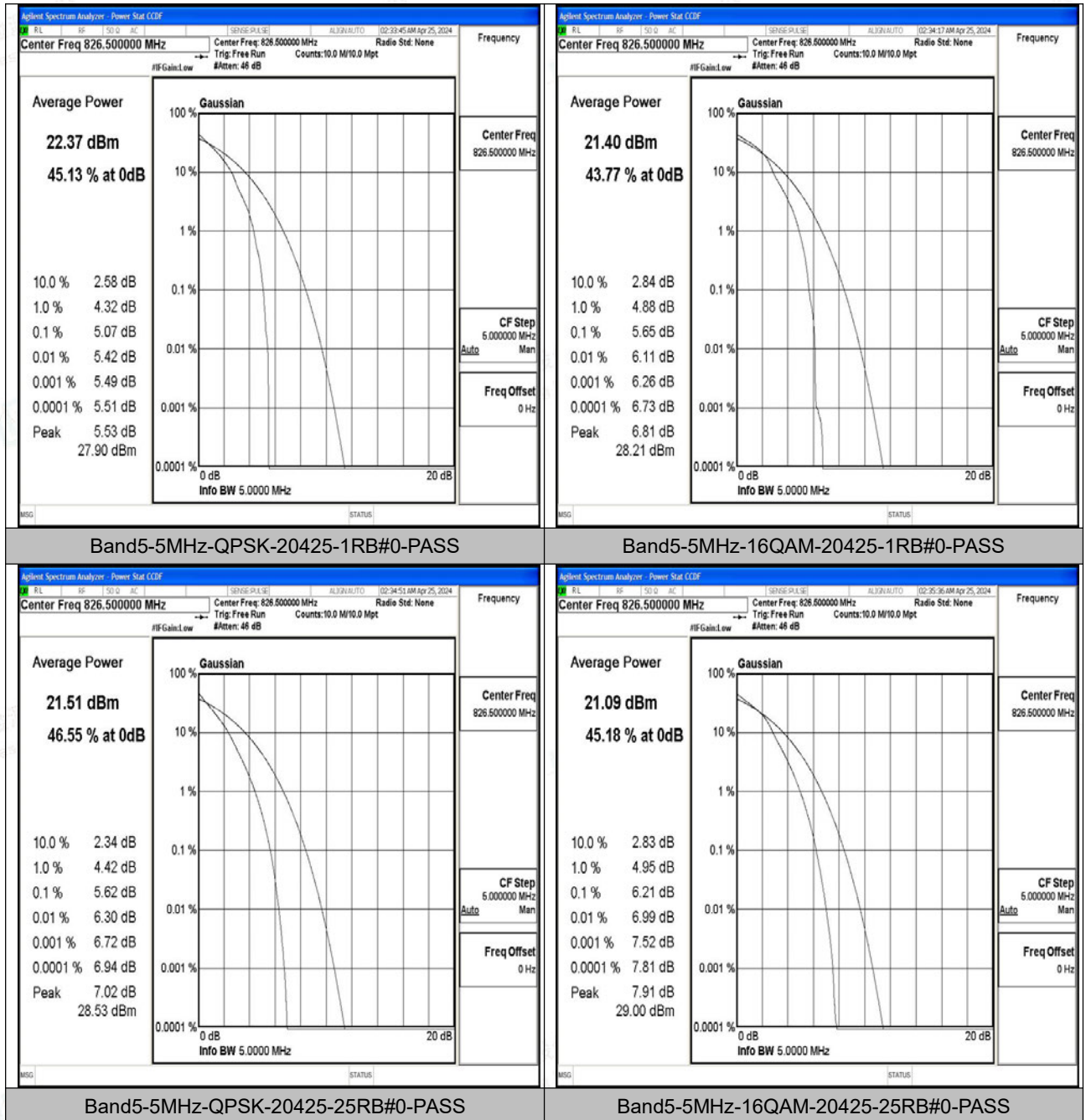
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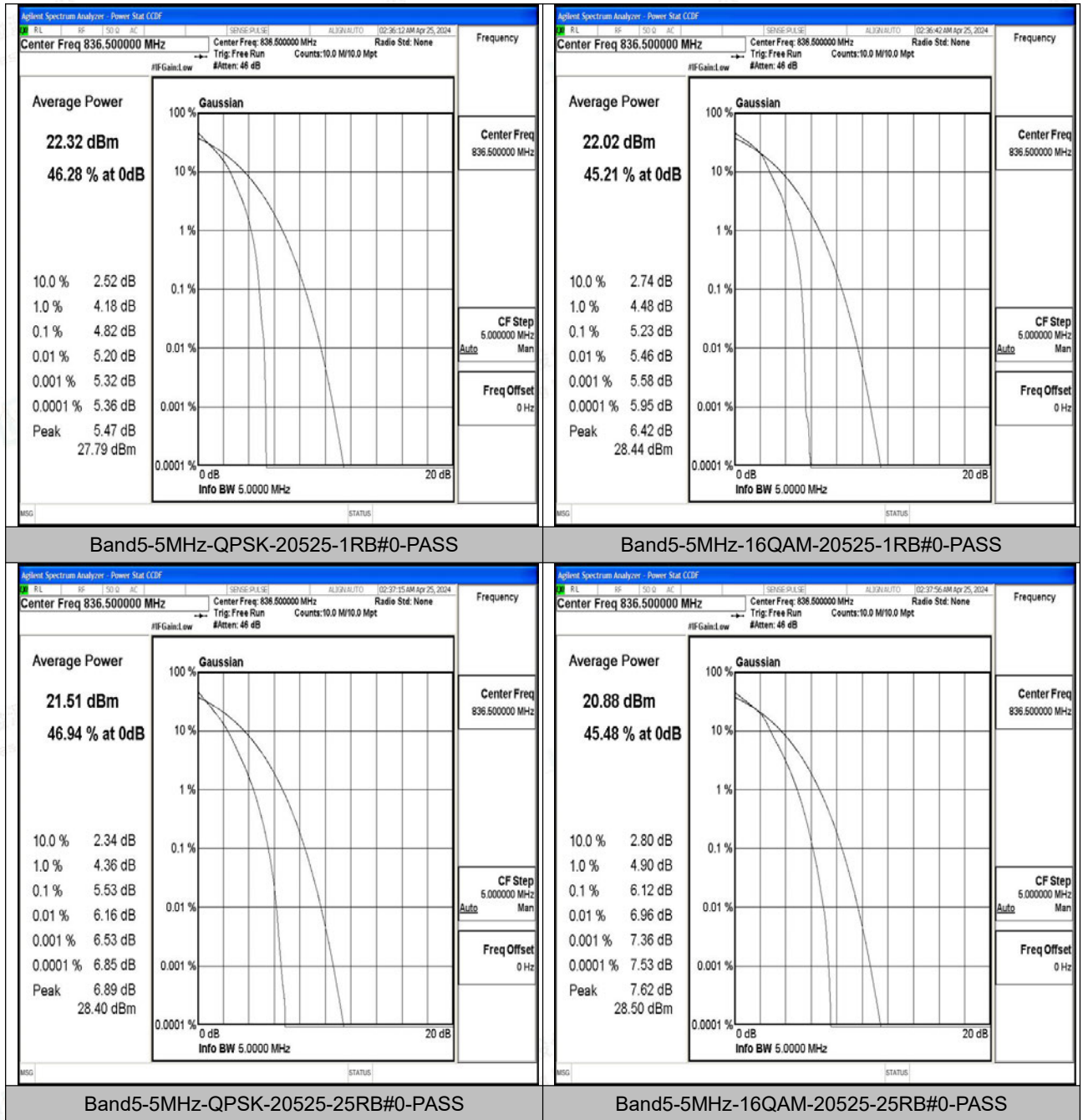
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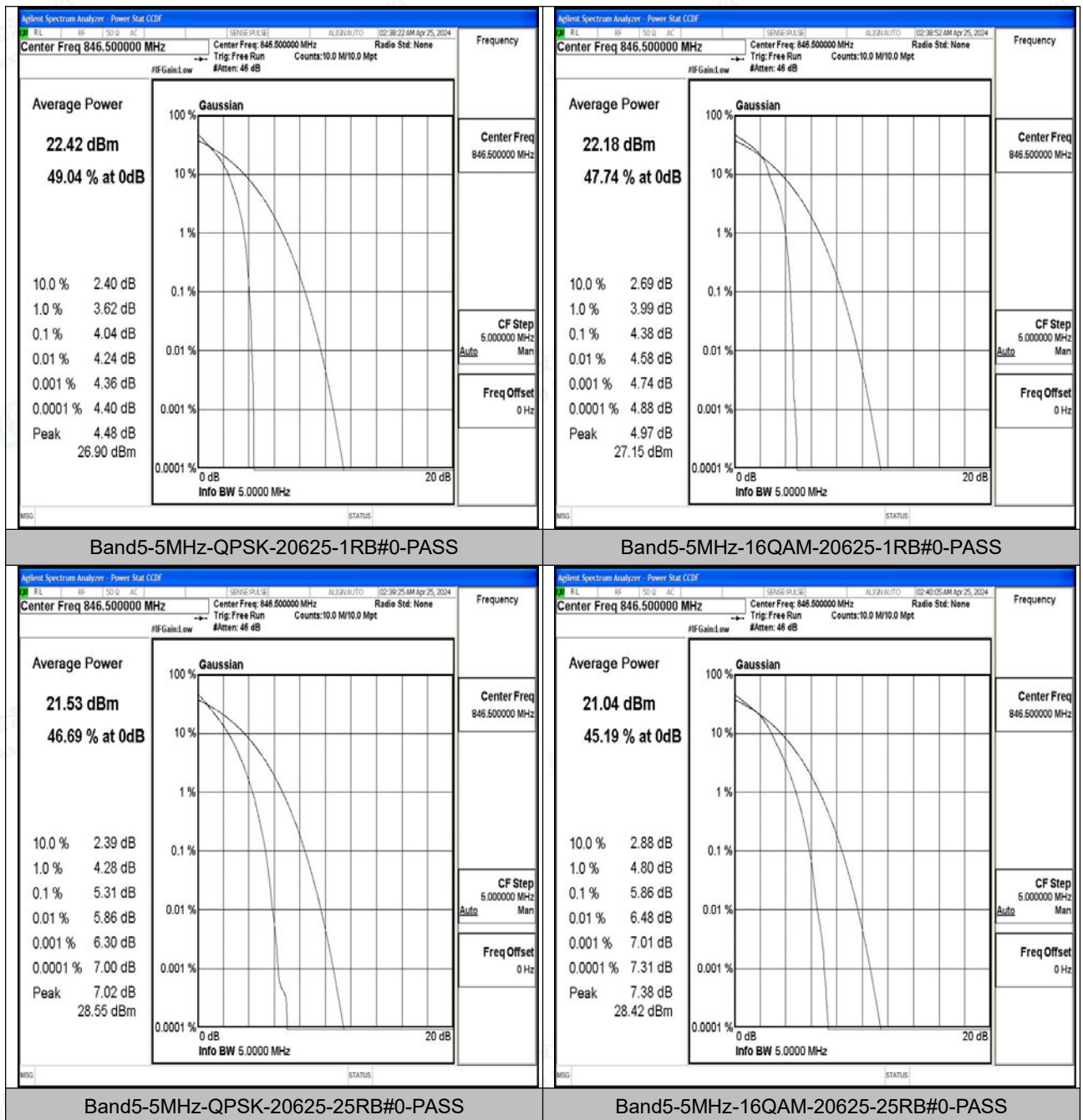
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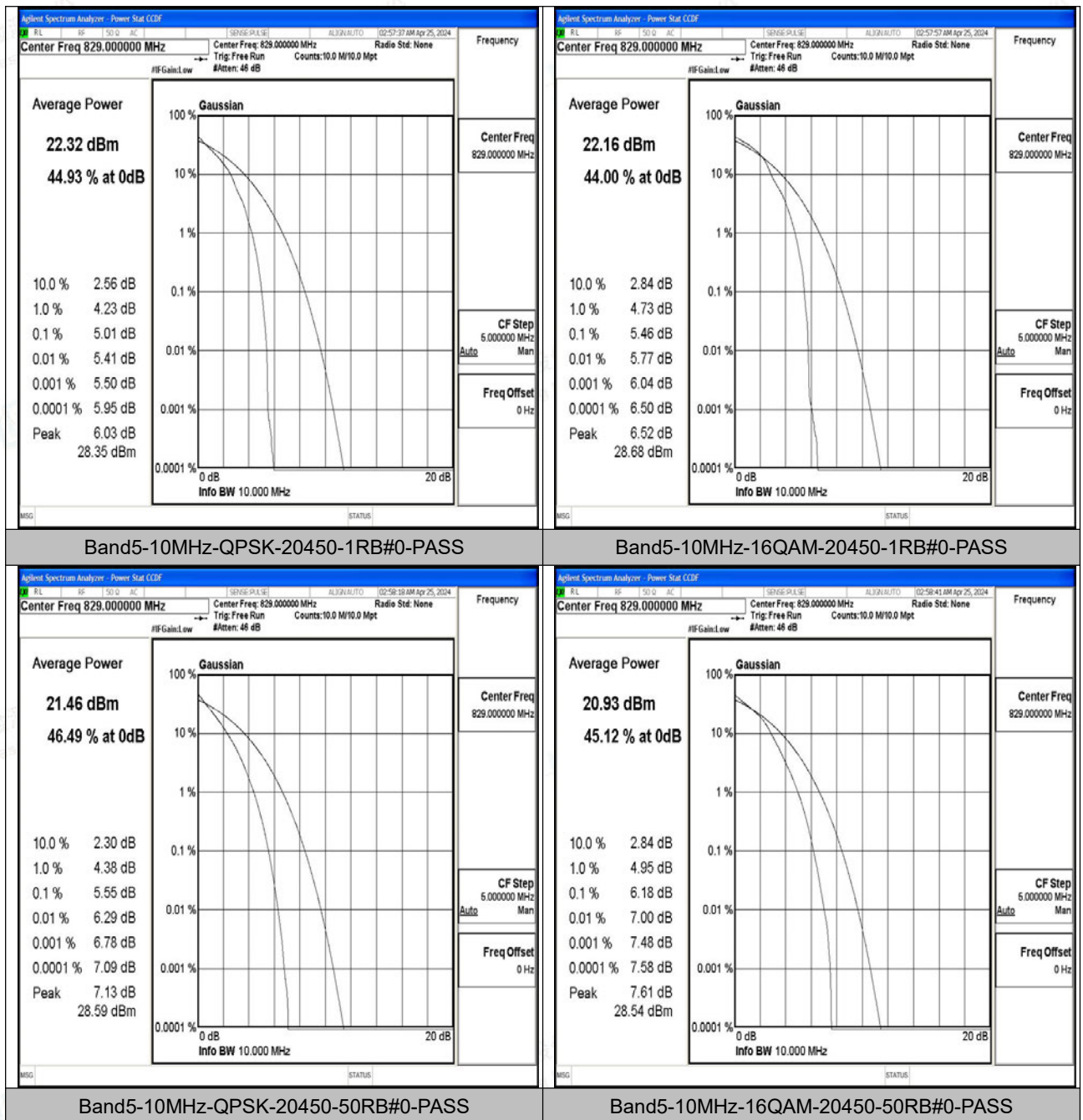


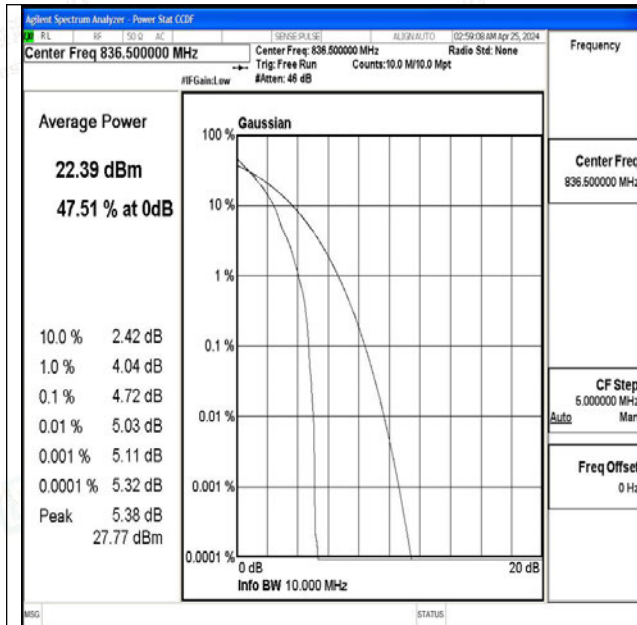
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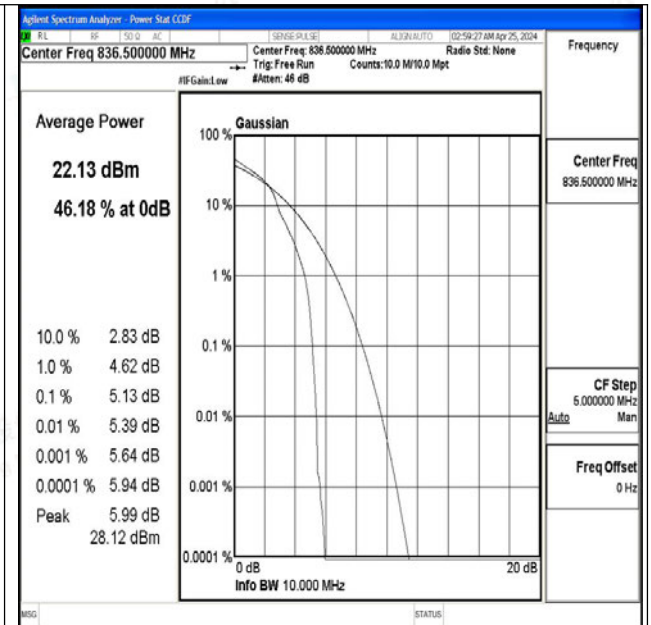
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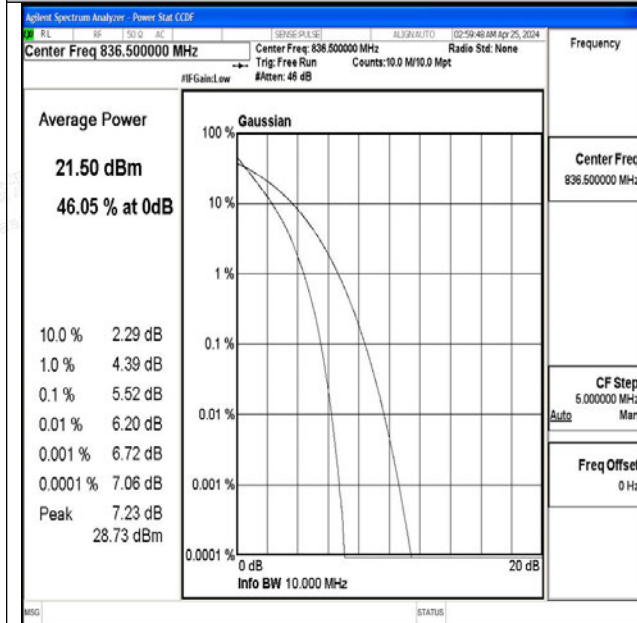




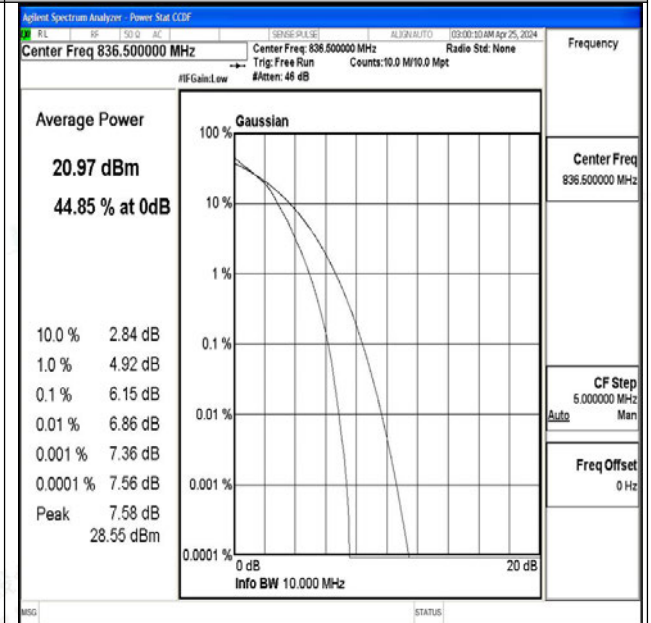
Band5-10MHz-QPSK-20525-1RB#0-PASS



Band5-10MHz-16QAM-20525-1RB#0-PASS

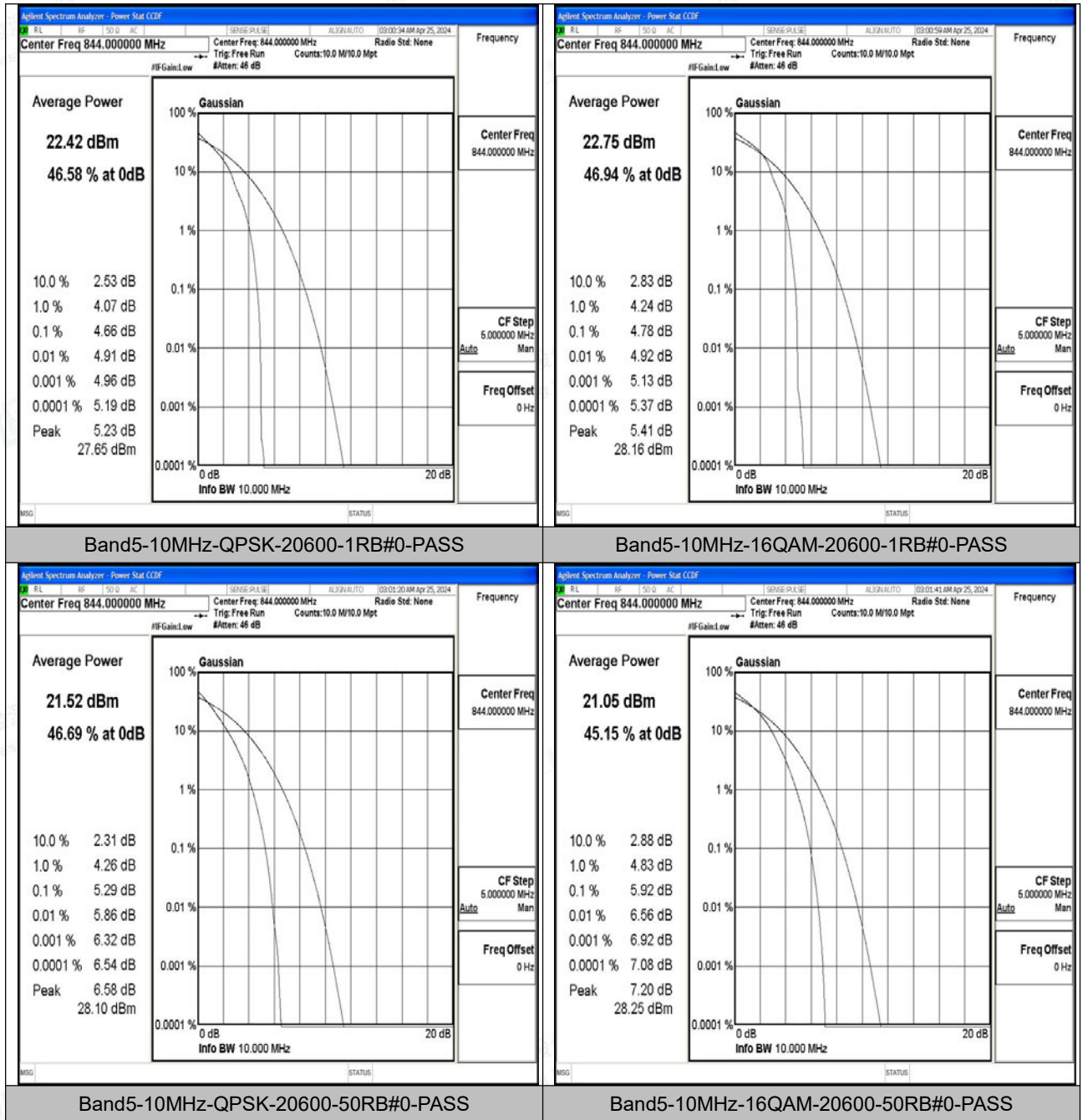


Band5-10MHz-QPSK-20525-50RB#0-PASS



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







C.3 26dB Bandwidth and Occupied Bandwidth

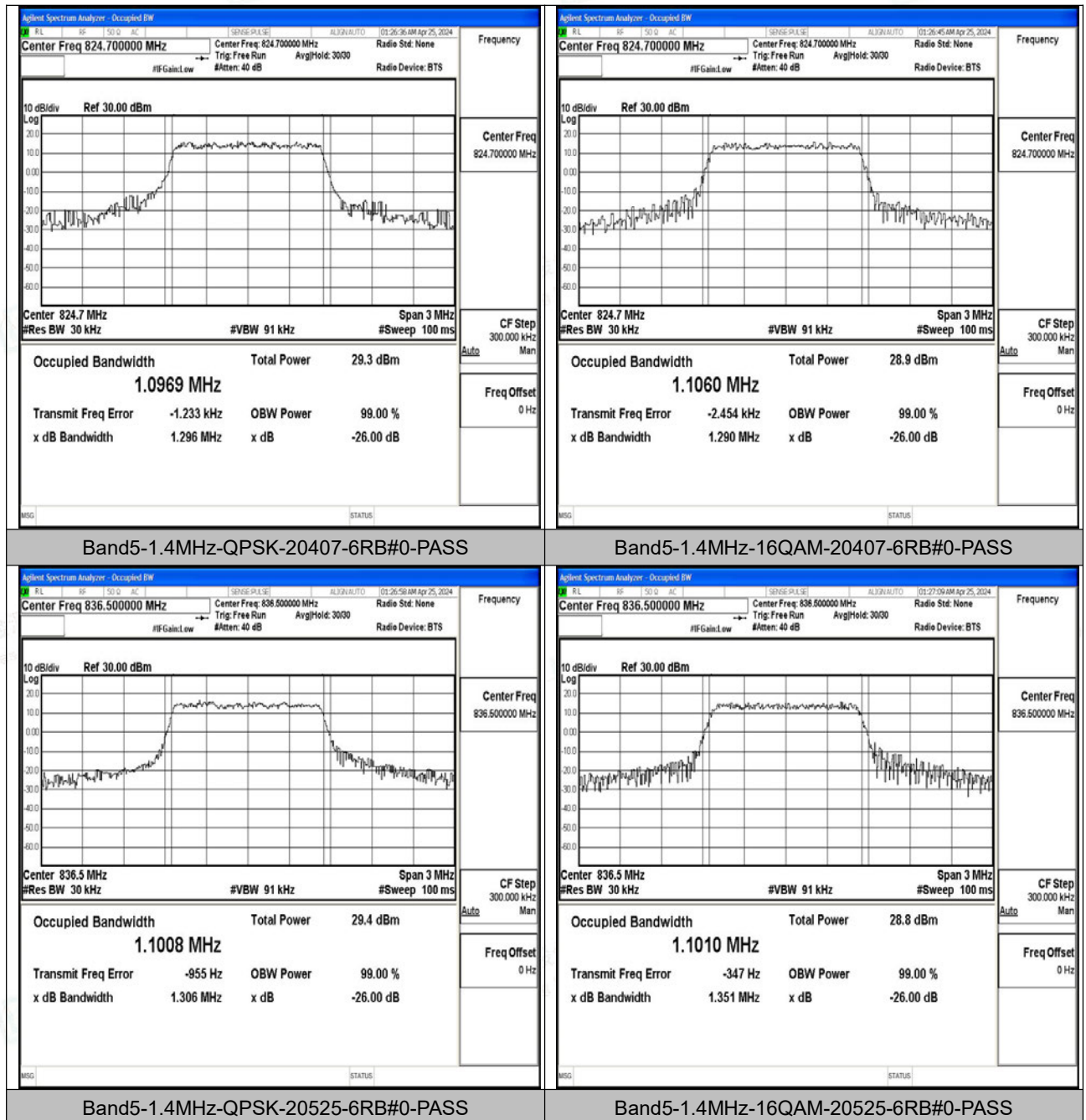
Test Result

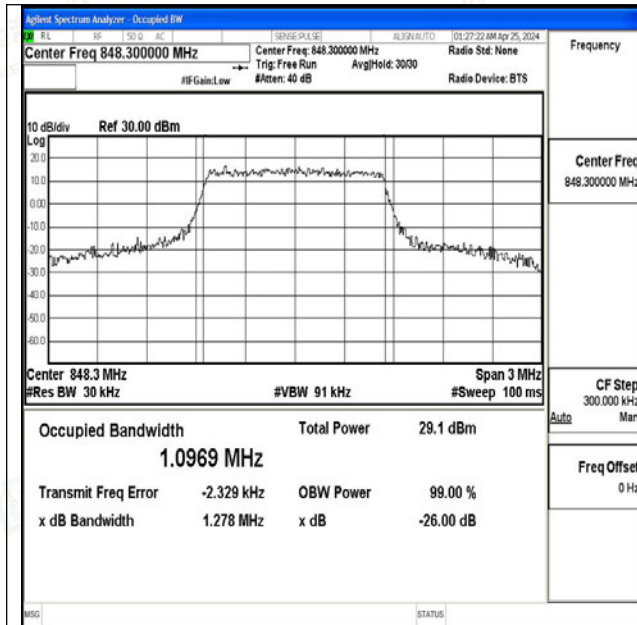
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0969	1.296	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1060	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1008	1.306	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1010	1.351	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0969	1.278	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0976	1.314	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7145	3.164	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6979	3.093	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7038	3.221	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7100	3.225	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7034	3.124	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7087	3.312	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5328	5.220	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5160	5.257	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5075	5.361	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5316	5.382	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5269	5.215	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5570	5.368	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9959	10.11	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9589	9.906	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0362	10.19	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0109	10.43	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9638	10.14	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9802	9.980	PASS



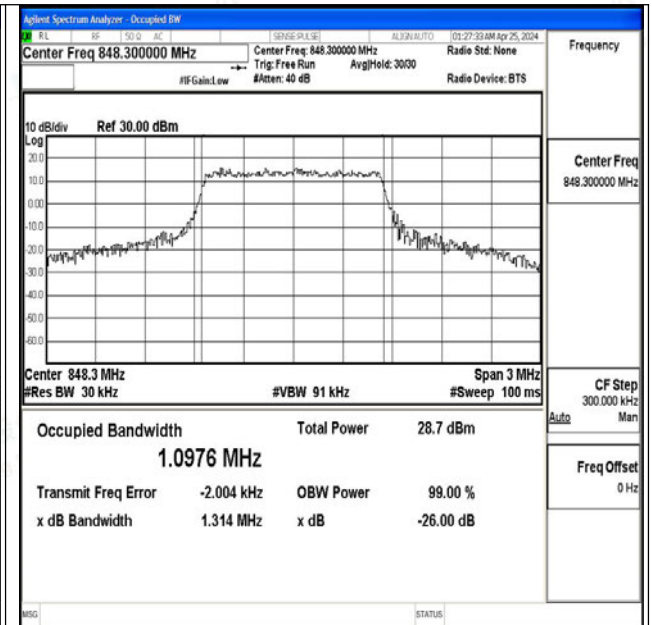


Test Graphs

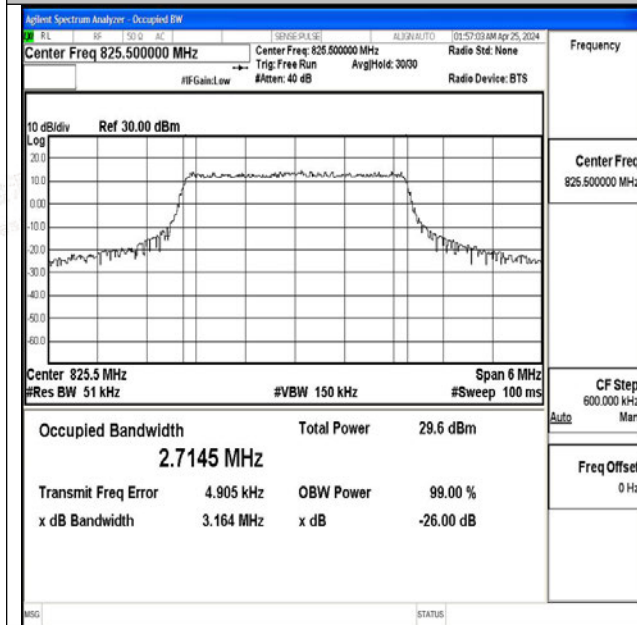




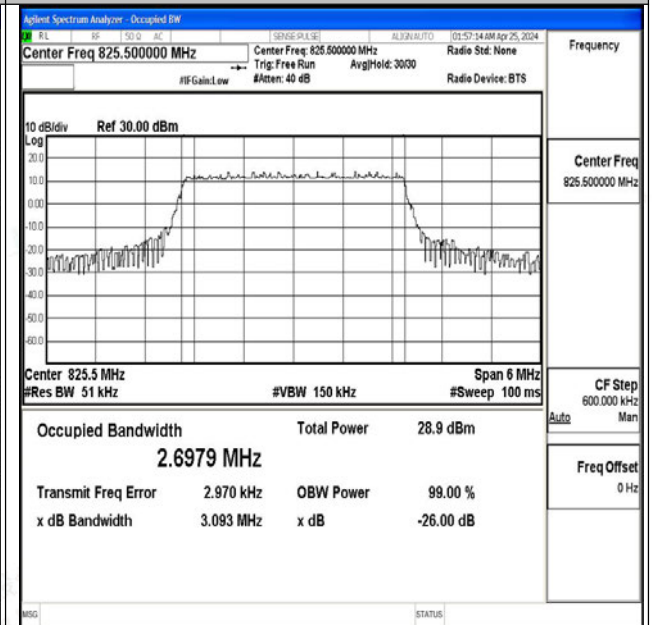
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Band5-1.4MHz-16QAM-20643-6RB#0-PASS

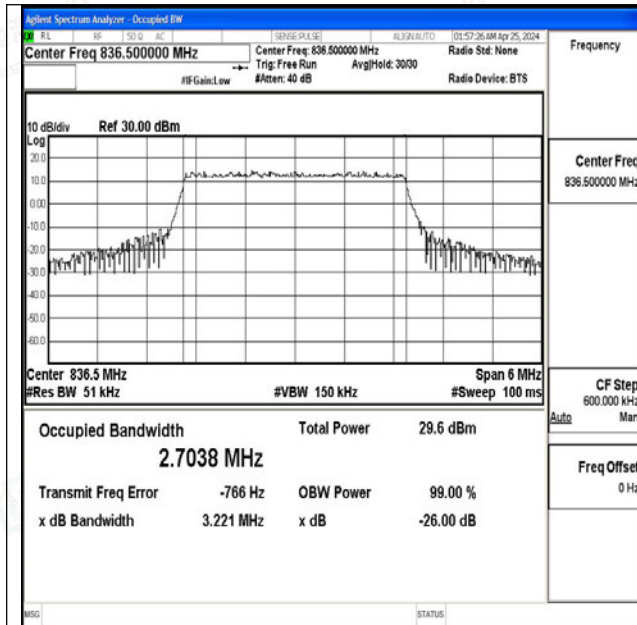


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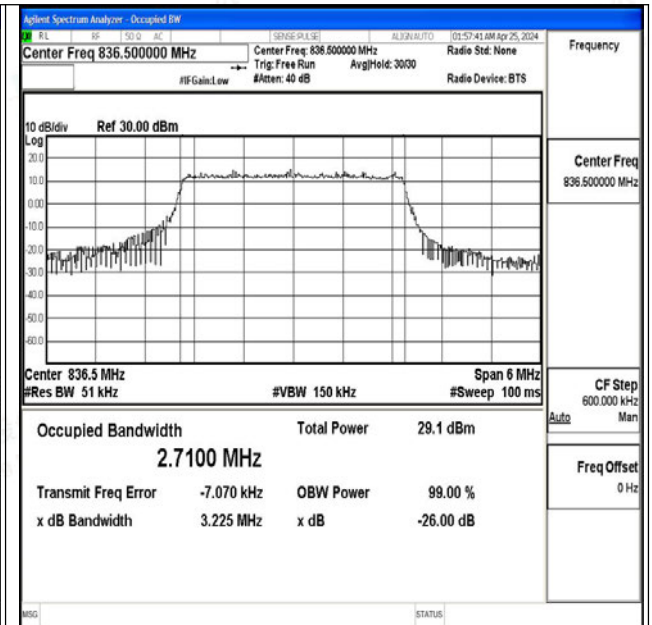


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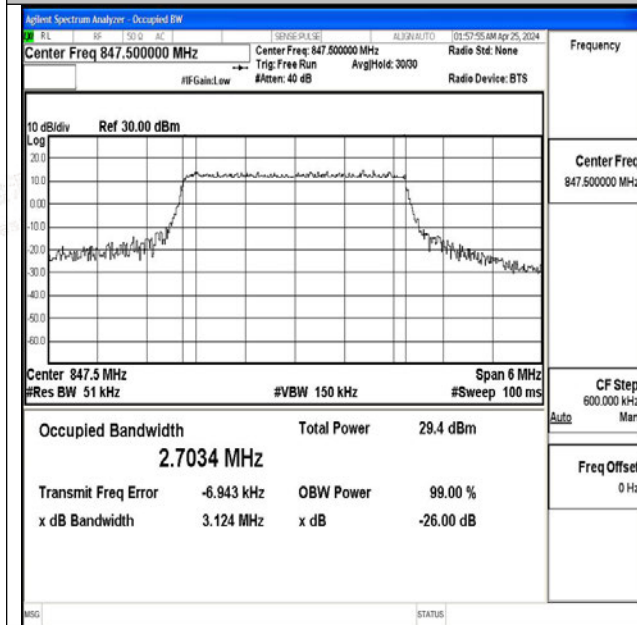




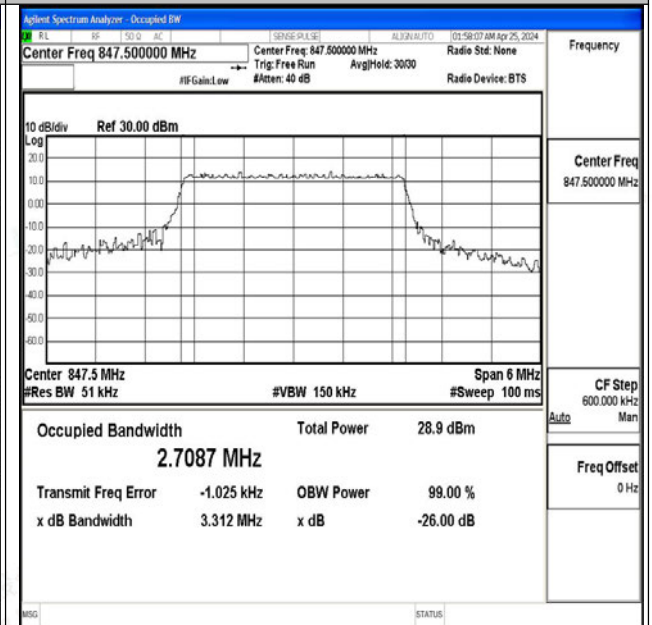
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Band5-3MHz-16QAM-20525-15RB#0-PASS



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Band5-3MHz-16QAM-20635-15RB#0-PASS

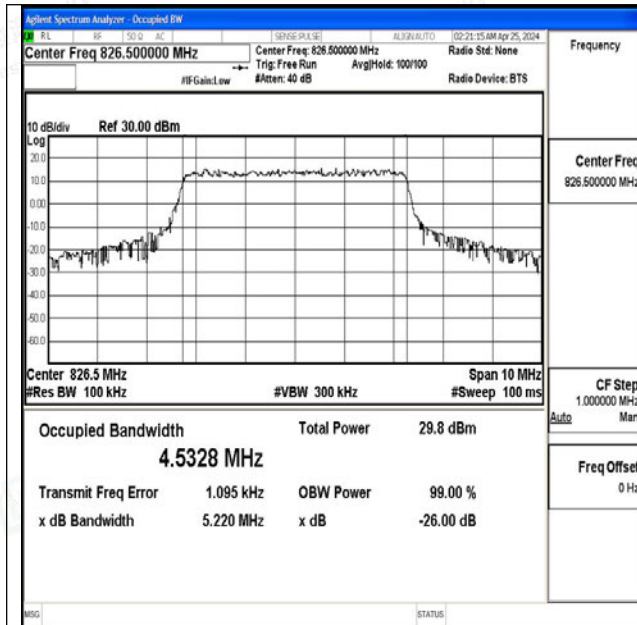


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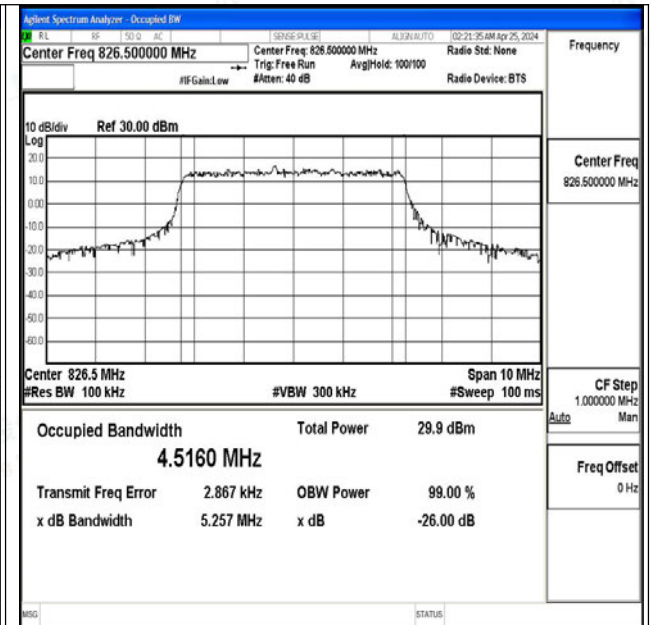
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

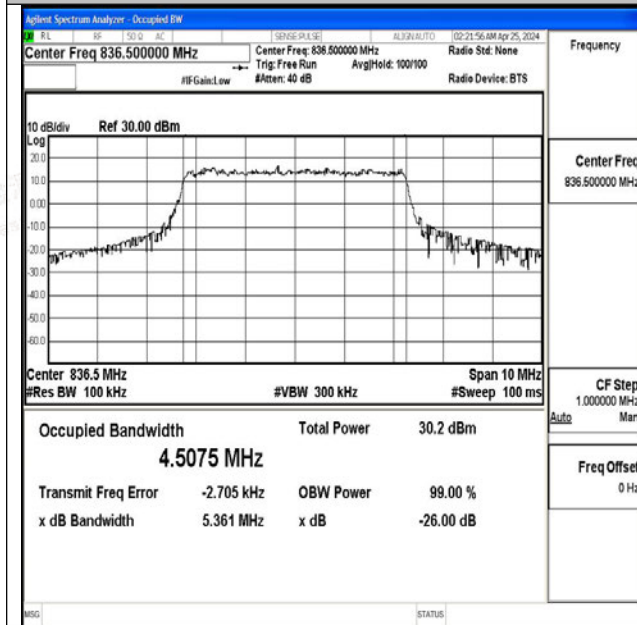
Scan code to check authenticity



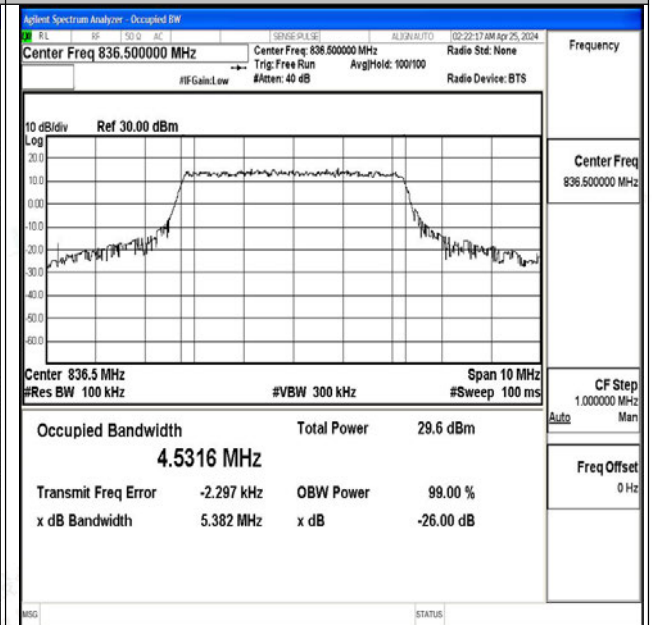
Band5-5MHz-QPSK-20425-25RB#0-PASS



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

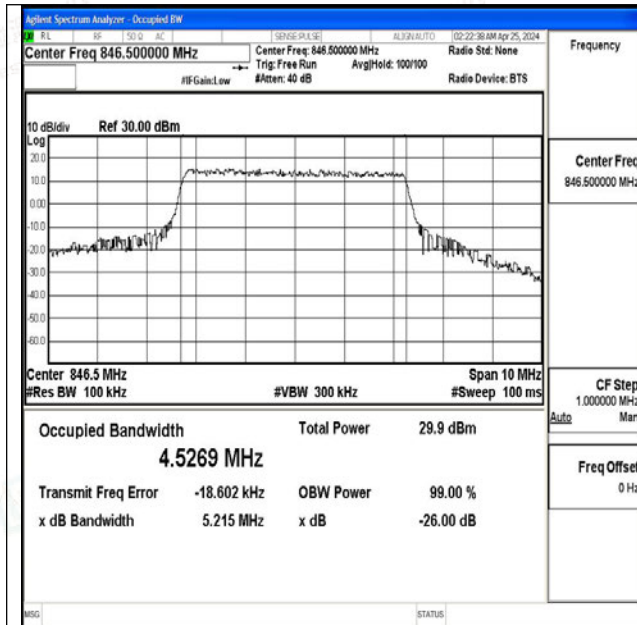


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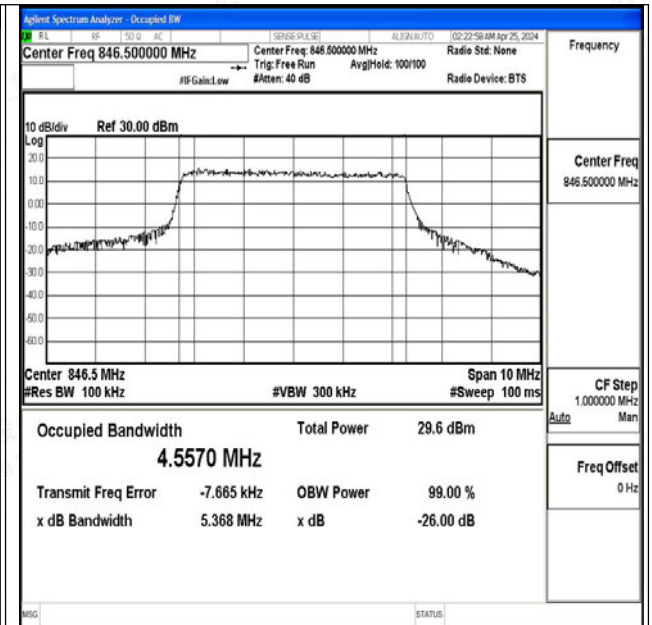


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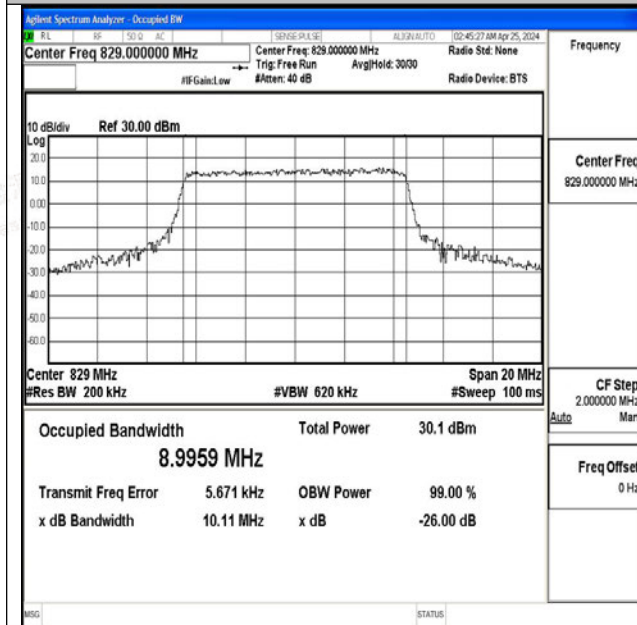




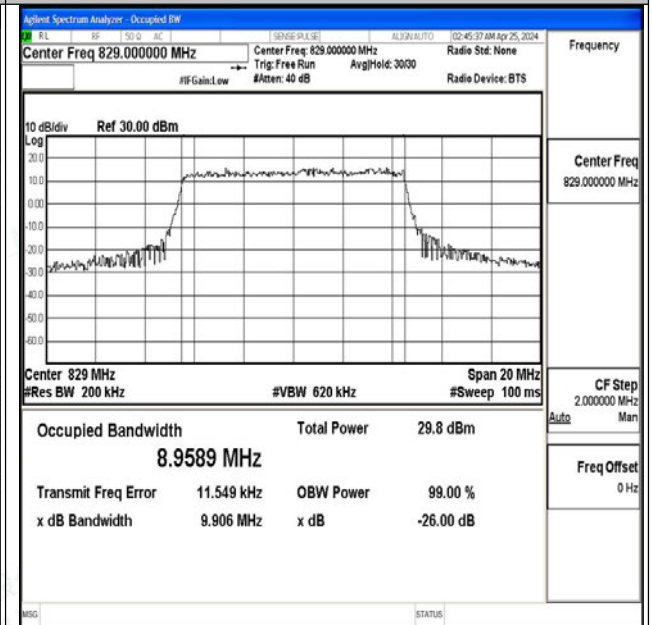
Band5-5MHz-QPSK-20625-25RB#0-PASS



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

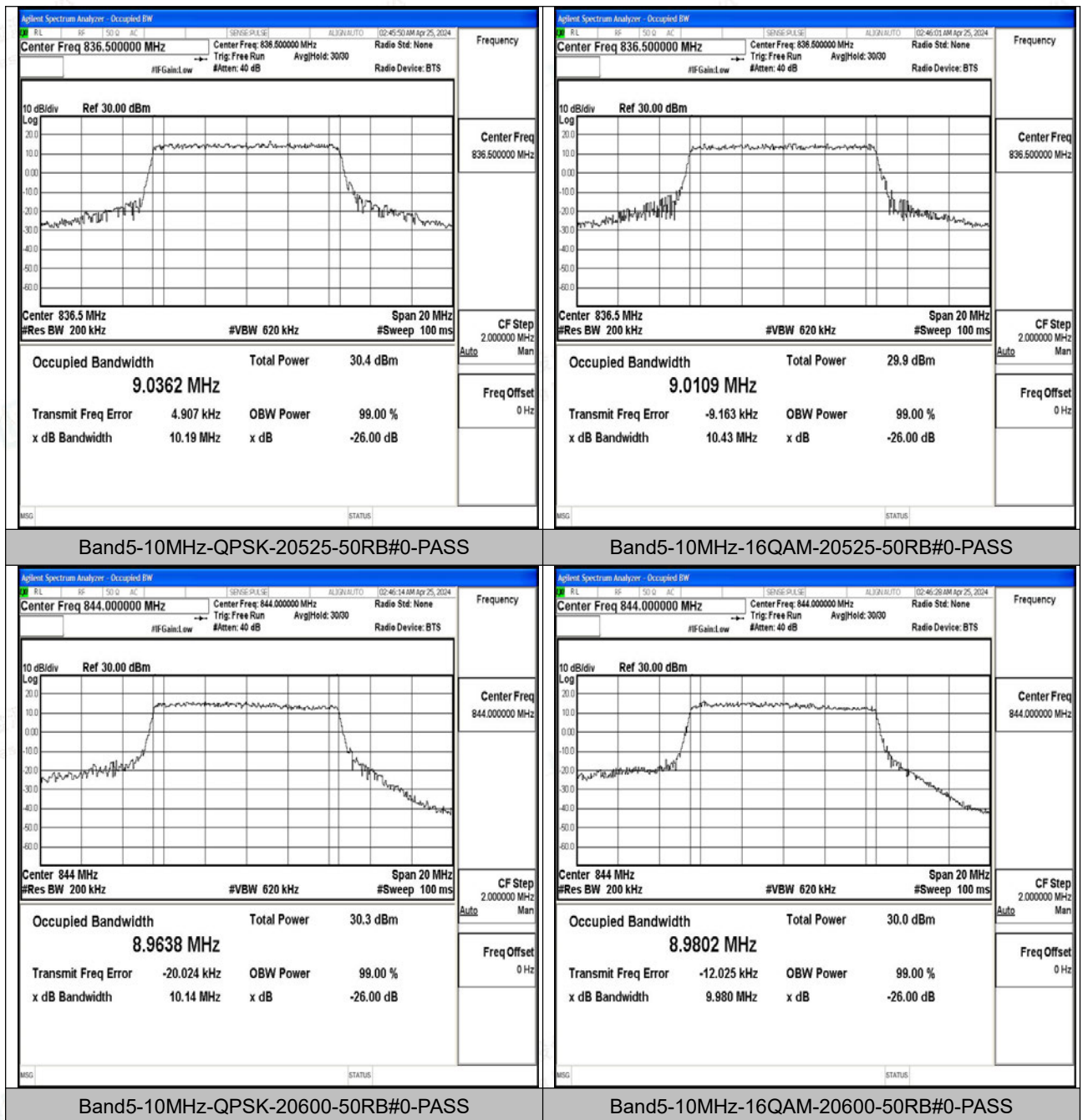


Band5-10MHz-QPSK-20450-50RB#0-PASS



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





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Scan code to check authenticity



C.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-30.37	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-30.90	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-27.65	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-26.92	PASS
Band5	3MHz	QPSK	20415	15RB#0	-25.23	PASS
Band5	3MHz	16QAM	20415	15RB#0	-26.36	PASS
Band5	3MHz	QPSK	20635	15RB#0	-25.51	PASS
Band5	3MHz	16QAM	20635	15RB#0	-26.21	PASS
Band5	5MHz	QPSK	20425	25RB#0	-28.99	PASS
Band5	5MHz	16QAM	20425	25RB#0	-30.84	PASS
Band5	5MHz	QPSK	20625	25RB#0	-30.70	PASS
Band5	5MHz	16QAM	20625	25RB#0	-28.09	PASS
Band5	10MHz	QPSK	20450	50RB#0	-35.13	PASS
Band5	10MHz	16QAM	20450	50RB#0	-35.43	PASS
Band5	10MHz	QPSK	20600	50RB#0	-32.65	PASS
Band5	10MHz	16QAM	20600	50RB#0	-32.68	PASS

Test Graphs

