



Appendix G: Test Data for E-UTRA Band 12

Product Name: Smartphone

Test Model: NS65

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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G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.21	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.05	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.36	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.28	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.17	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.03	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.23	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.02	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.24	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.06	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.27	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.05	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.30	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.18	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.07	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.32	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.21	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.11	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.04	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.26	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.04	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.28	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.02	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.23	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.03	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.26	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.20	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.19	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.96	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.31	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.12	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.20	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.95	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.19	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.05	PASS



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Band12	1.4MHz	QPSK	23173	3RB#1	23.25	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.05	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.21	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.06	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.21	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.07	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.71	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.78	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.69	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.76	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.74	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.75	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.73	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.78	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.74	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.76	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.76	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.74	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.75	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.80	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.68	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.78	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.62	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.73	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.54	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.75	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.76	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.72	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.72	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.76	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.64	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.72	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.52	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.70	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.49	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.65	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.50	PASS



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Band12	3MHz	QPSK	23165	8RB#0	21.69	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.74	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.71	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.74	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.74	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.69	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.59	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.11	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.05	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.04	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.14	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.18	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.96	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.16	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.07	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.18	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.17	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.06	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.22	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.15	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.20	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.17	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.23	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.14	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.02	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.76	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.93	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.25	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.26	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.23	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.30	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.14	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.23	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.17	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.24	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.16	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.05	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.31	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.05	PASS



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Band12	5MHz	QPSK	23155	1RB#24	22.85	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.74	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.00	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.03	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.03	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.90	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.03	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.79	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.00	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.00	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.25	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.23	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.36	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.37	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.00	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.86	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.30	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.37	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.22	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.38	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.25	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.27	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.95	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.28	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.30	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.02	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.08	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.20	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.89	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.80	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.25	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.24	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.16	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.28	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.16	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.23	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.24	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.30	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.23	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.02	PASS



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Band12	10MHz	QPSK	23130	1RB#24	23.22	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.13	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.82	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.76	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.09	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.35	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.32	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.32	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.14	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.20	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.15	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.29	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.81	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.83	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.38	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.15	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.54	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.55	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.20	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.95	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.58	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.63	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.09	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.88	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.83	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.69	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.53	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.27	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.40	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.32	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.20	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.94	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.07	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	6.02	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.41	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.16	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.01	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.62	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.73	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.35	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.75	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.48	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.46	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.09	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.32	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.88	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.72	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.33	13	PASS



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Band12	10MHz	QPSK	23060	1RB#0	4.88	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.77	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.62	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.27	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.00	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.98	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.20	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.34	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.25	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.51	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.23	13	PASS



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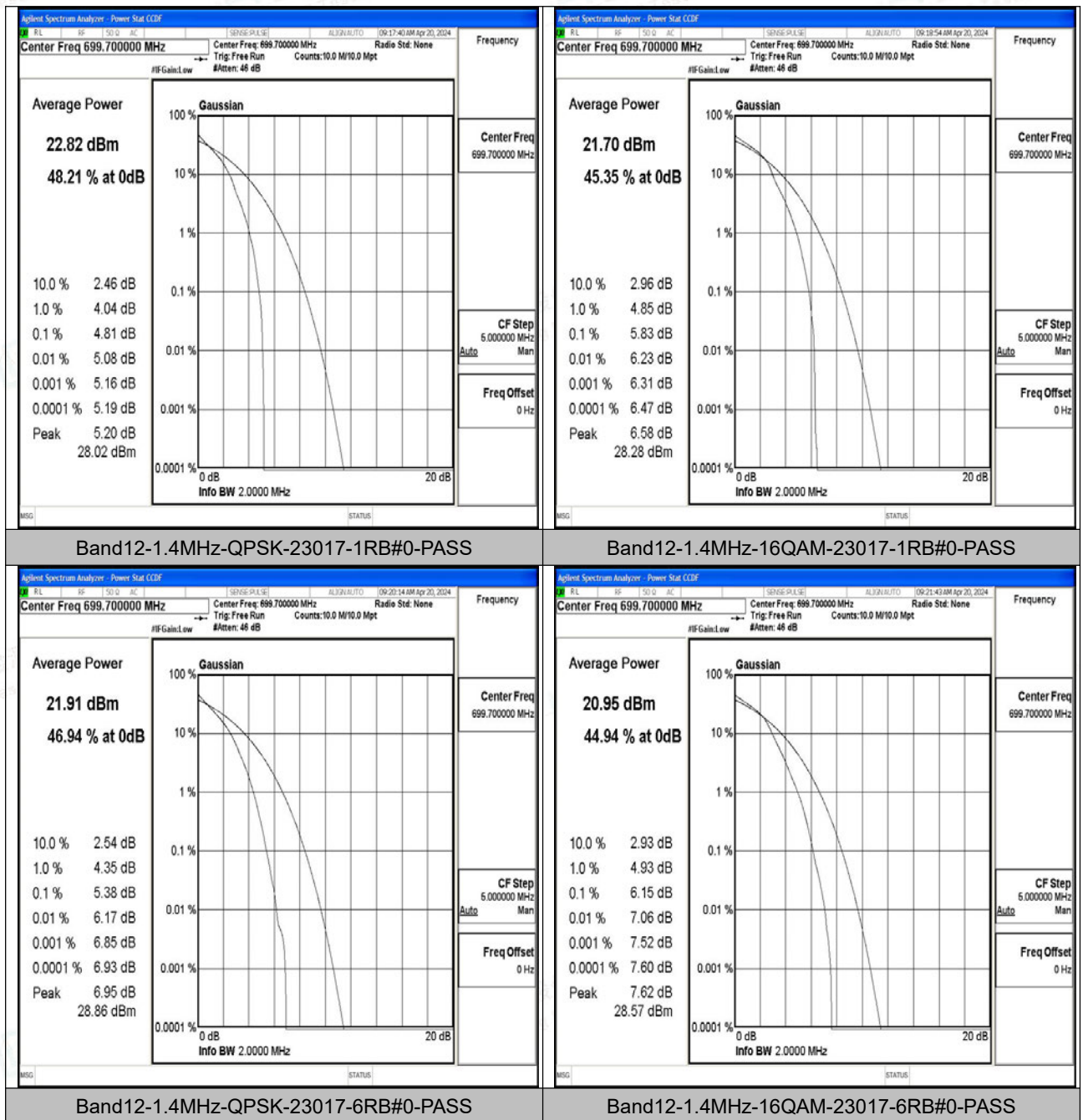
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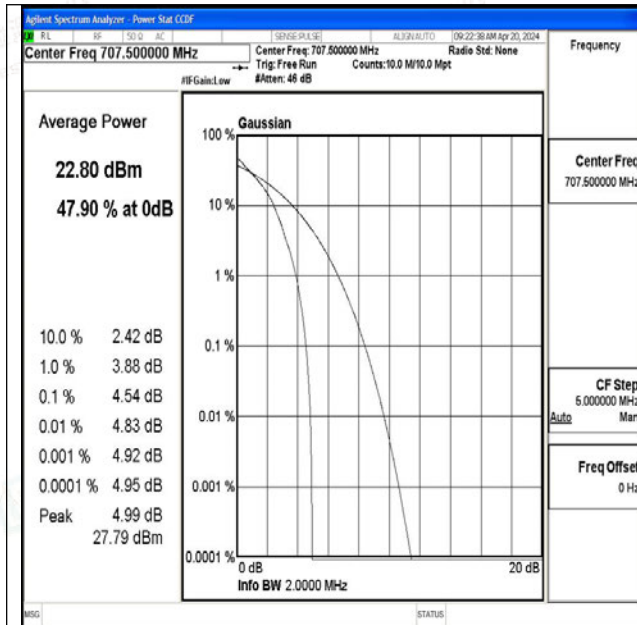
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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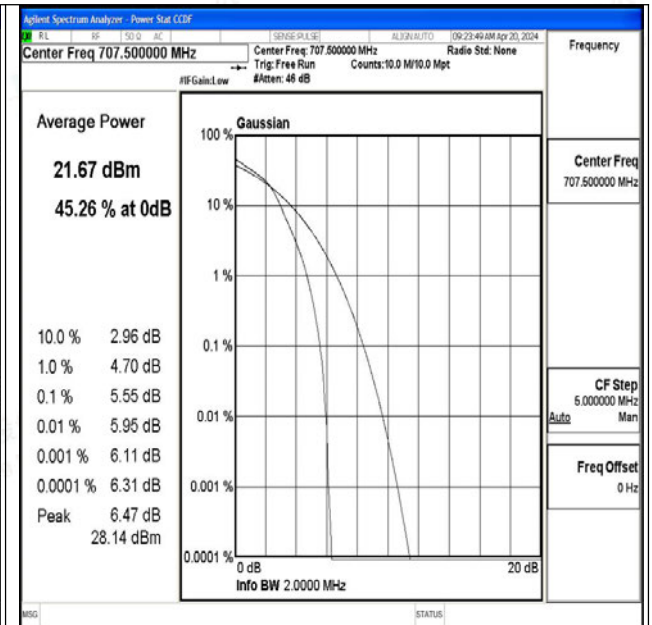


Test Graphs

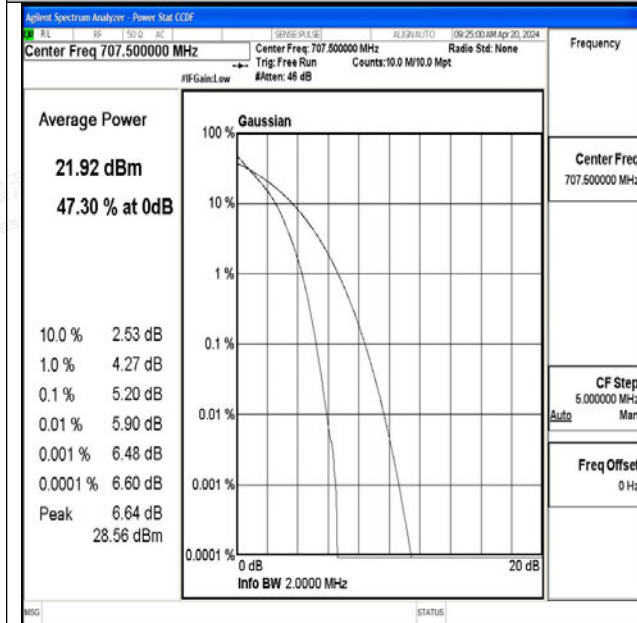




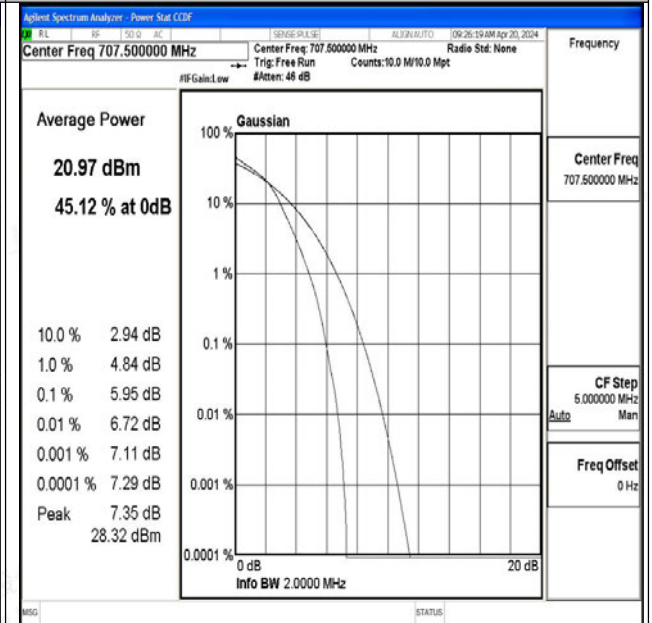
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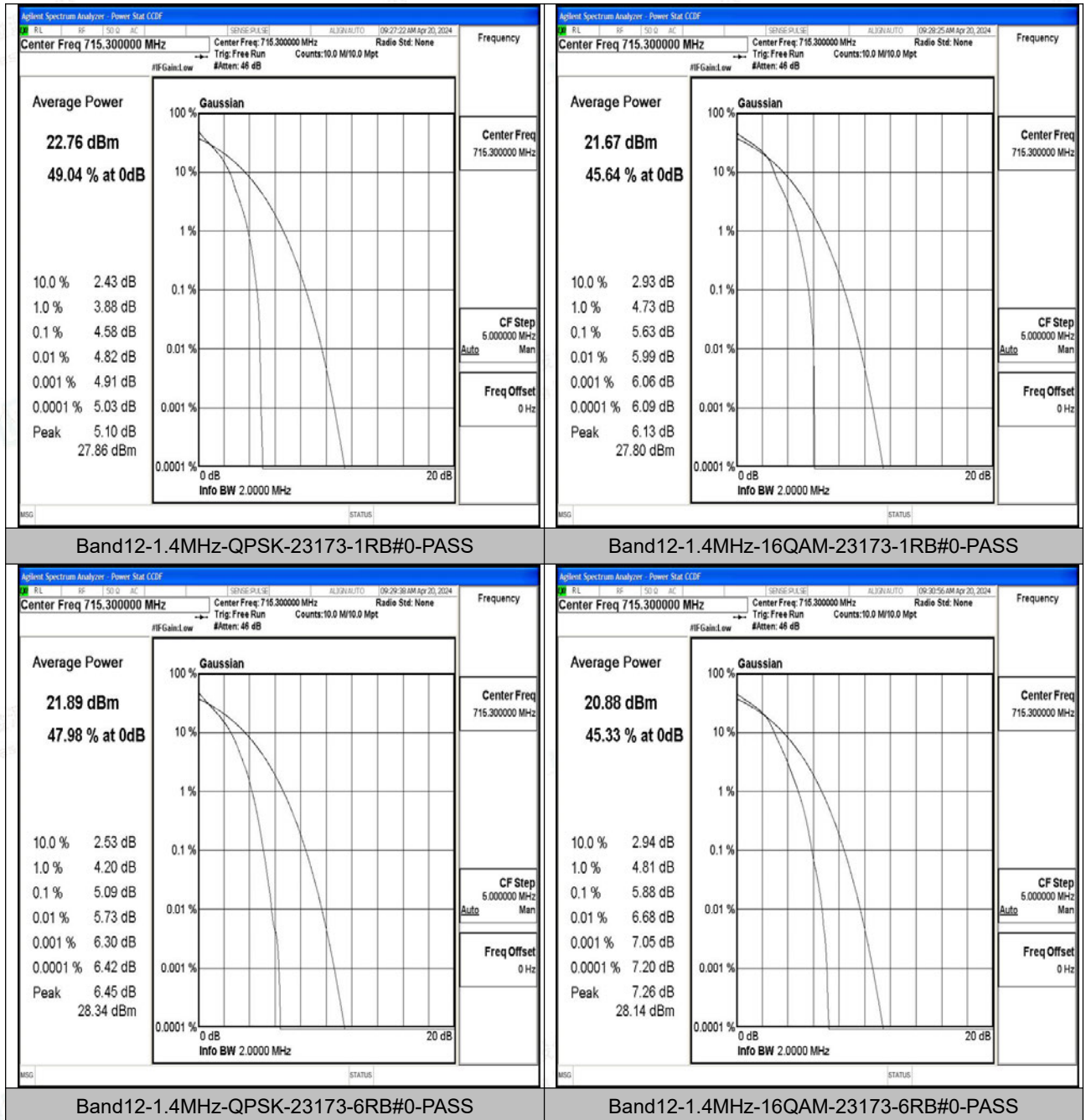


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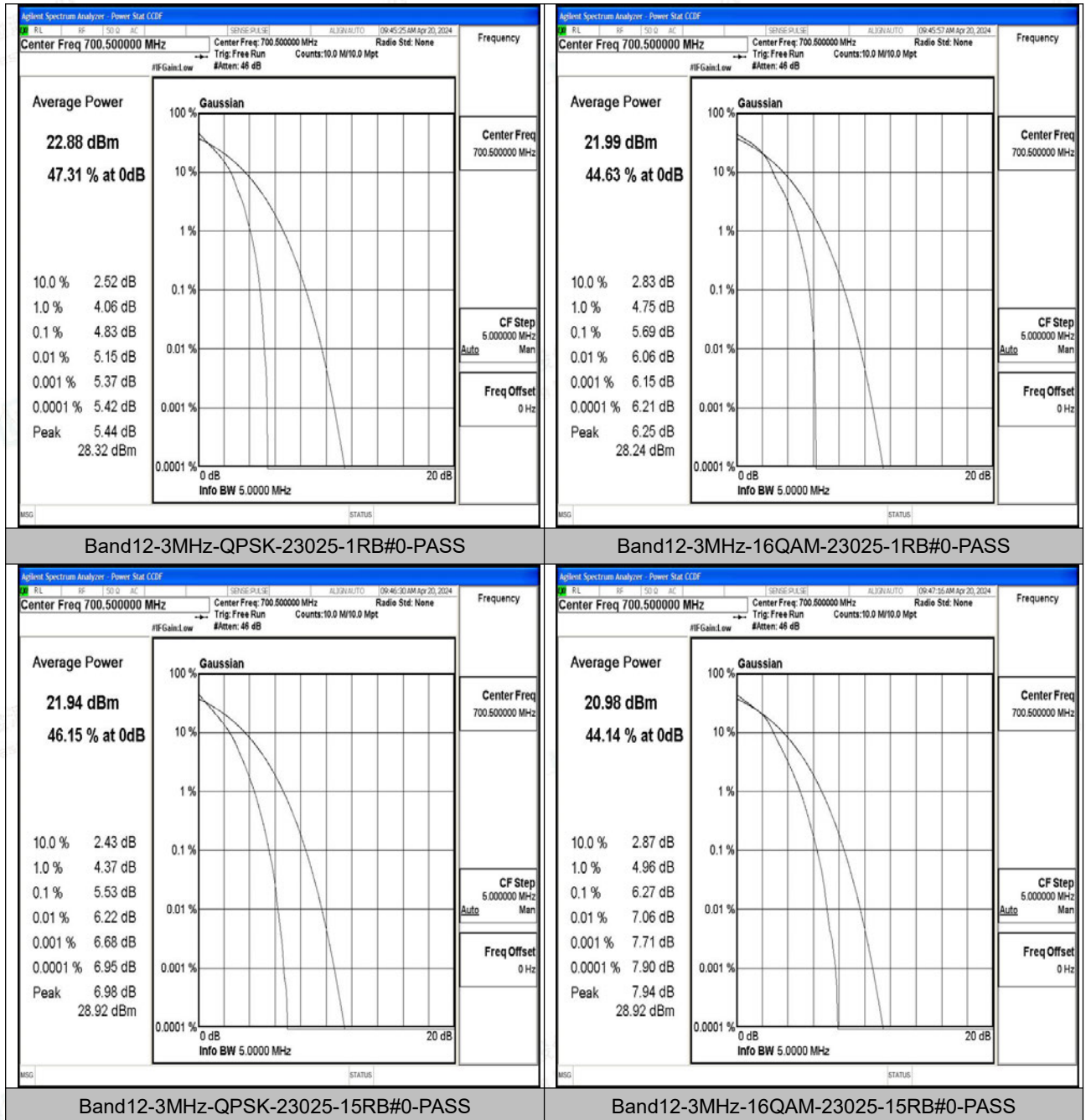


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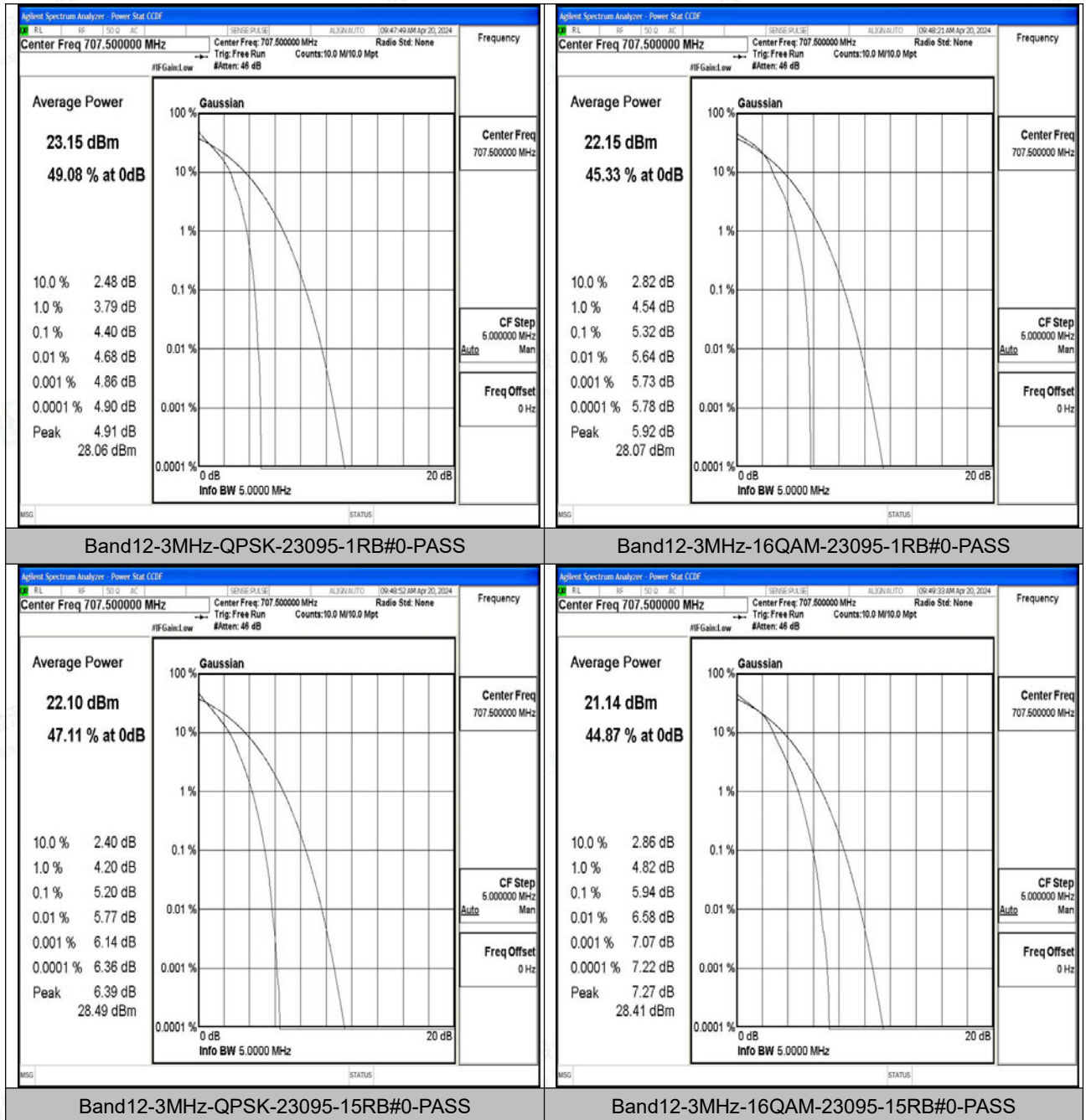


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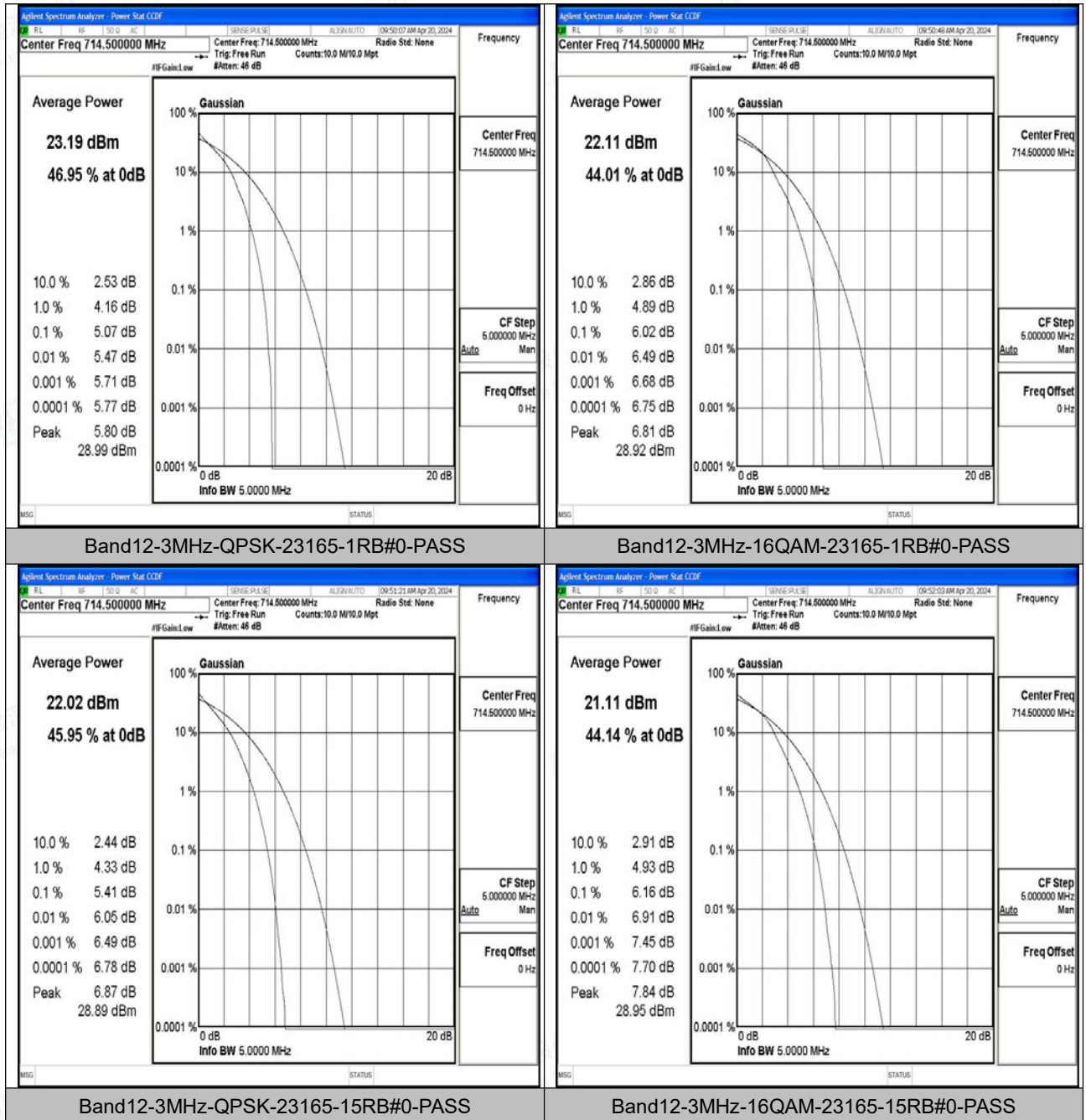


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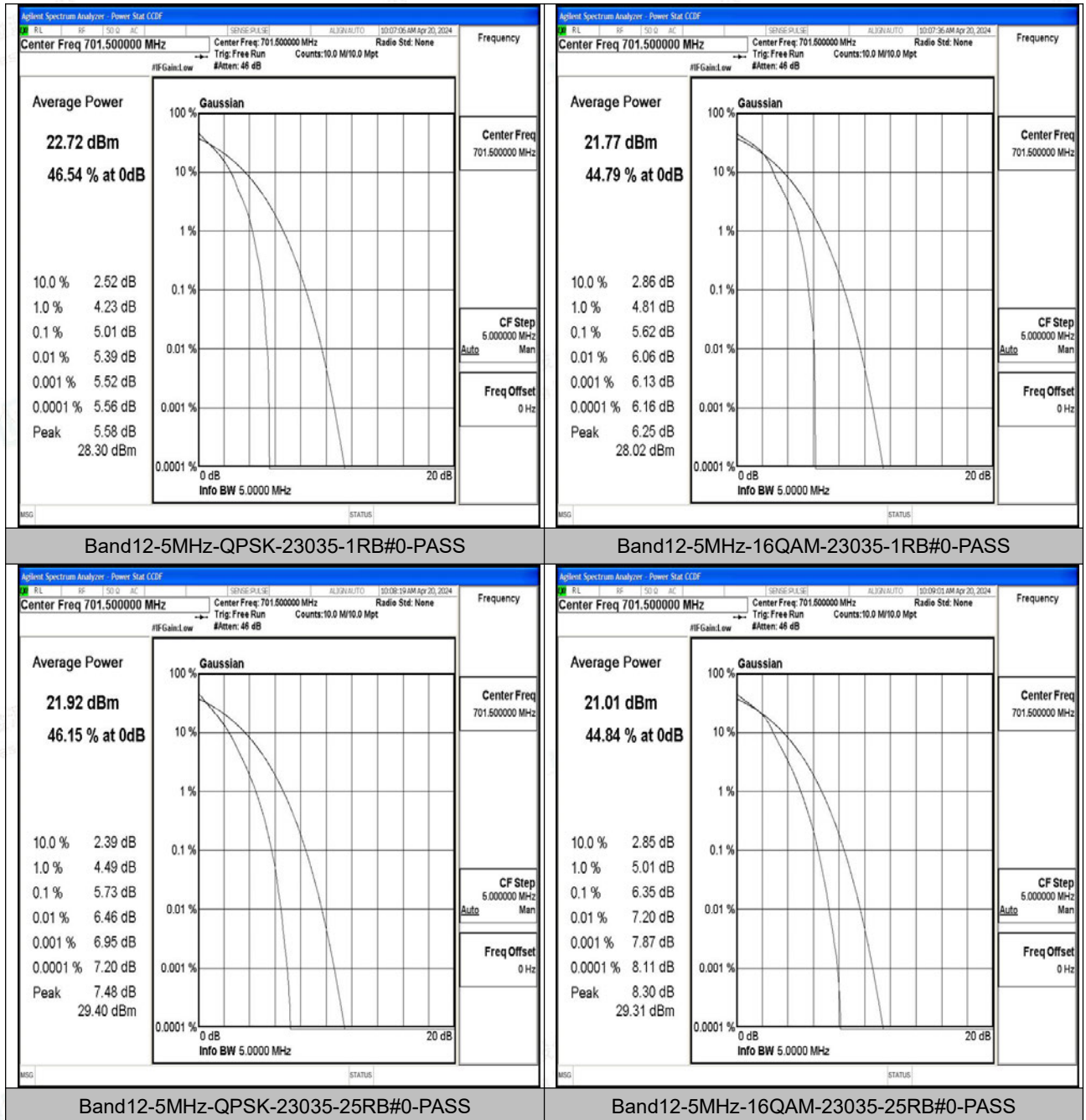


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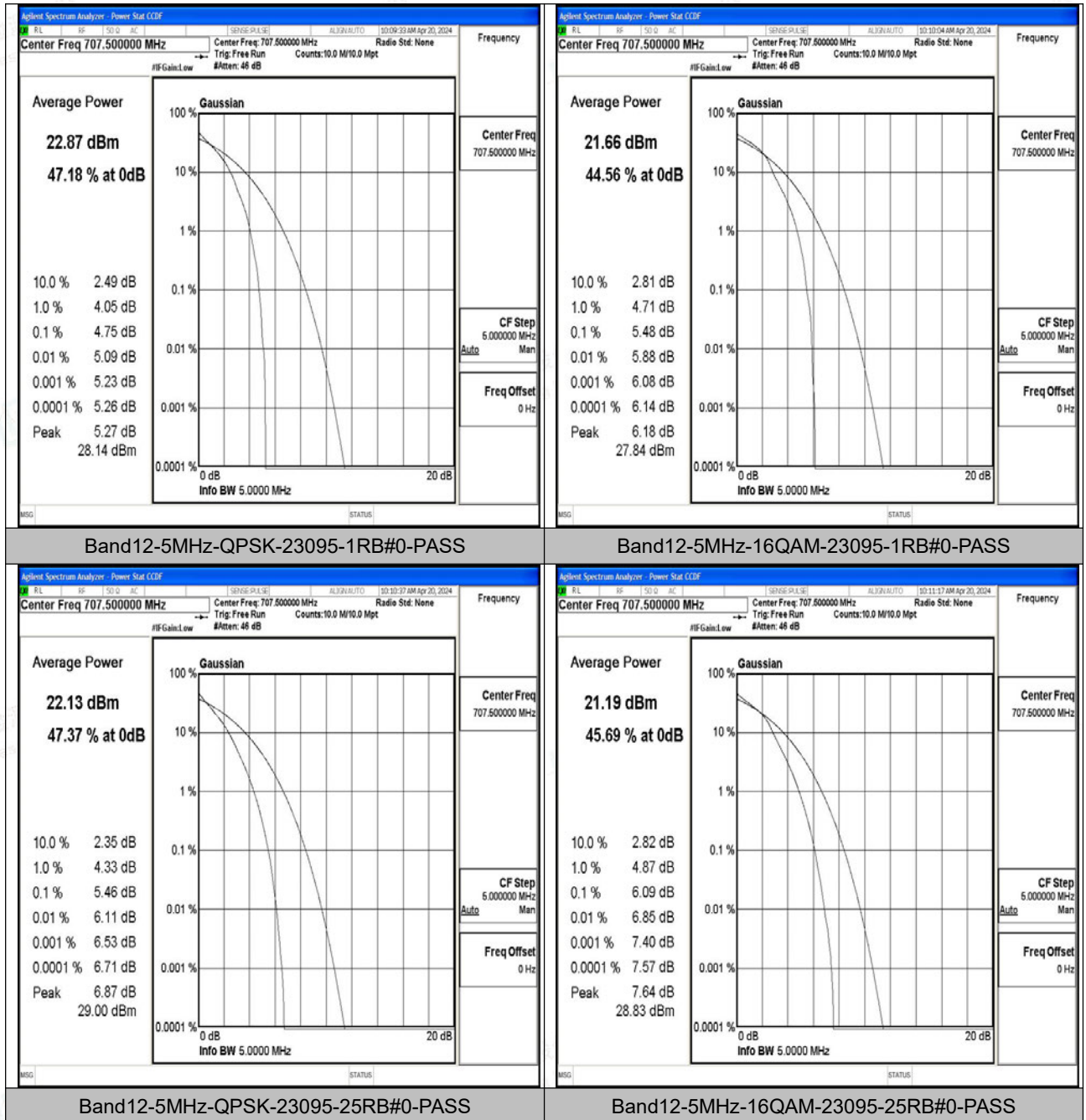


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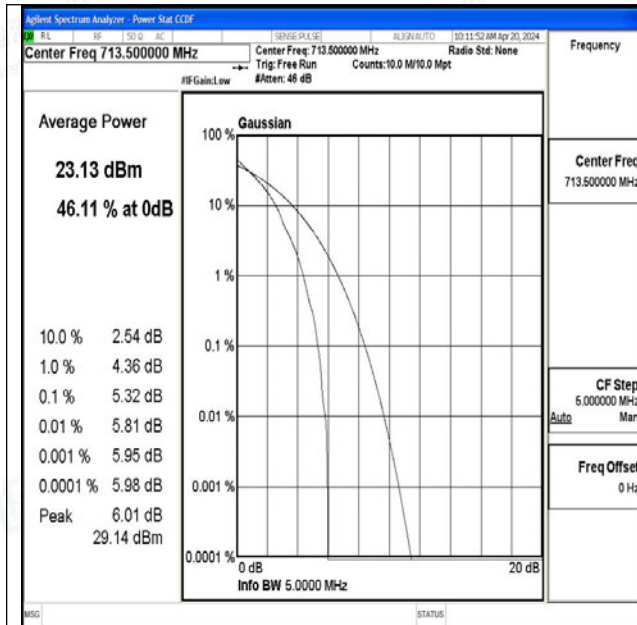


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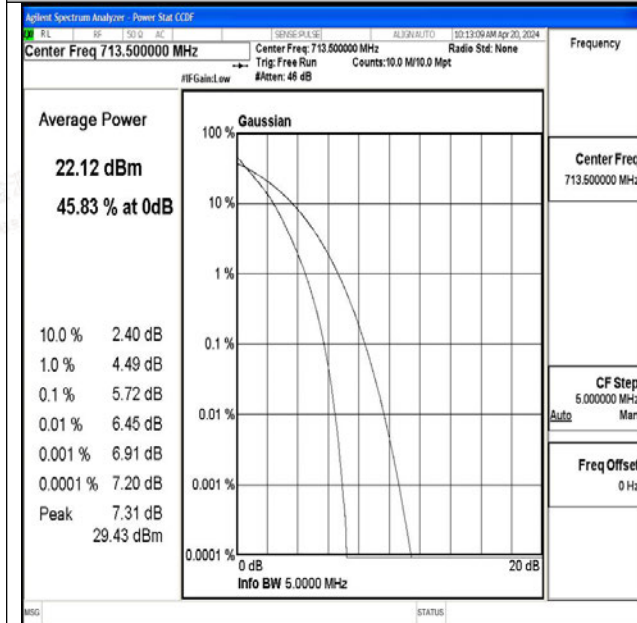
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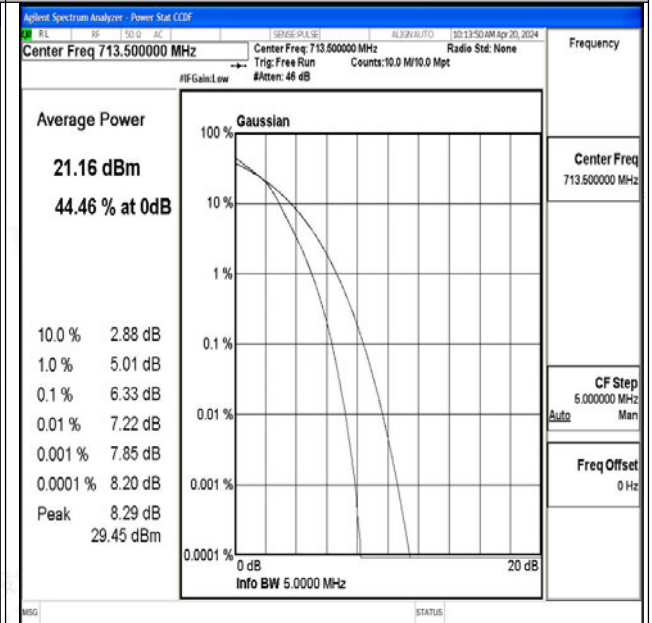
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Band12-5MHz-16QAM-23155-1RB#0-PASS



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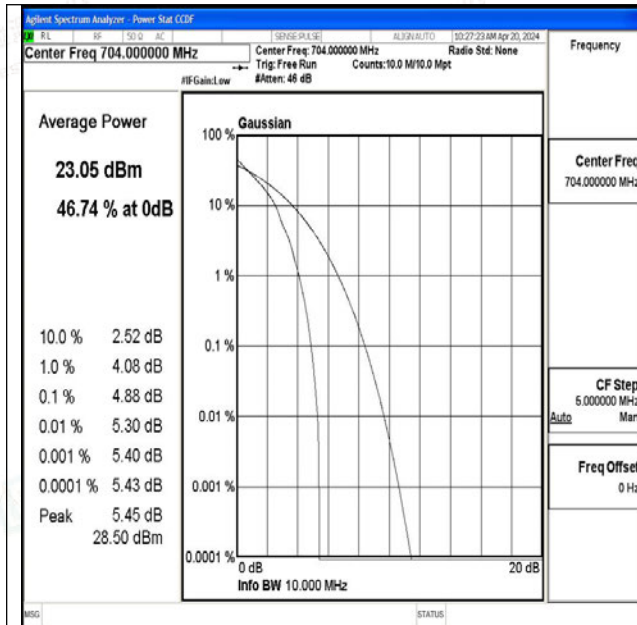


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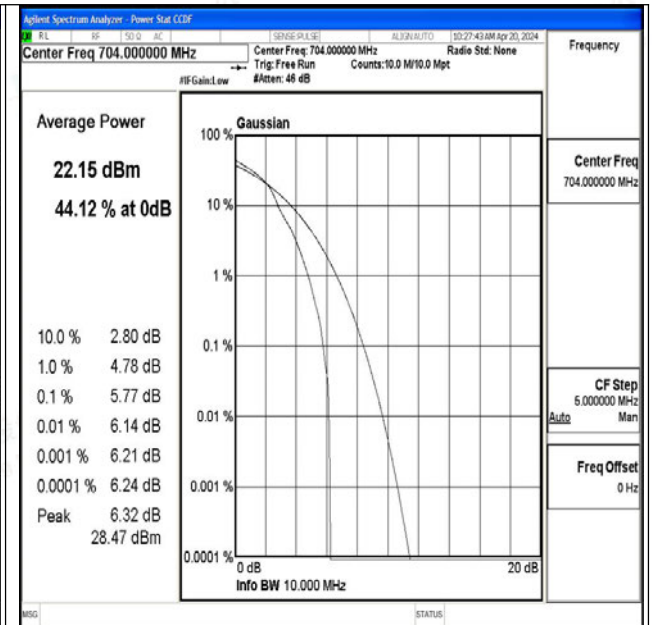
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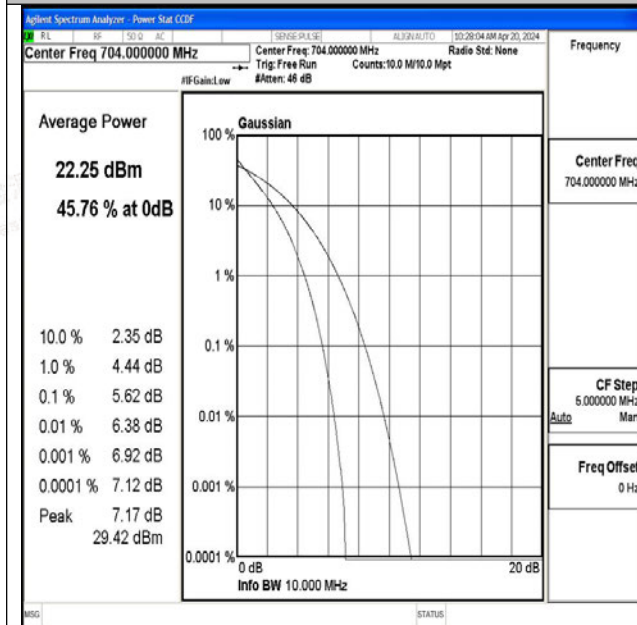
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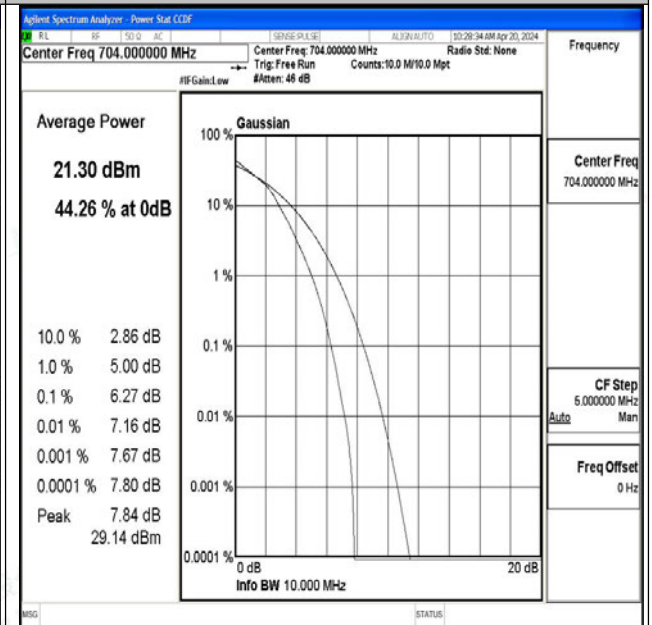
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Band12-10MHz-16QAM-23060-50RB#0-PASS

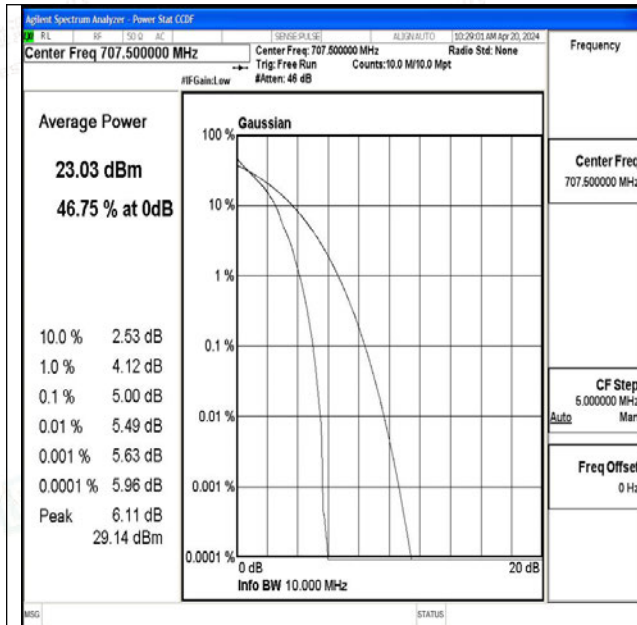


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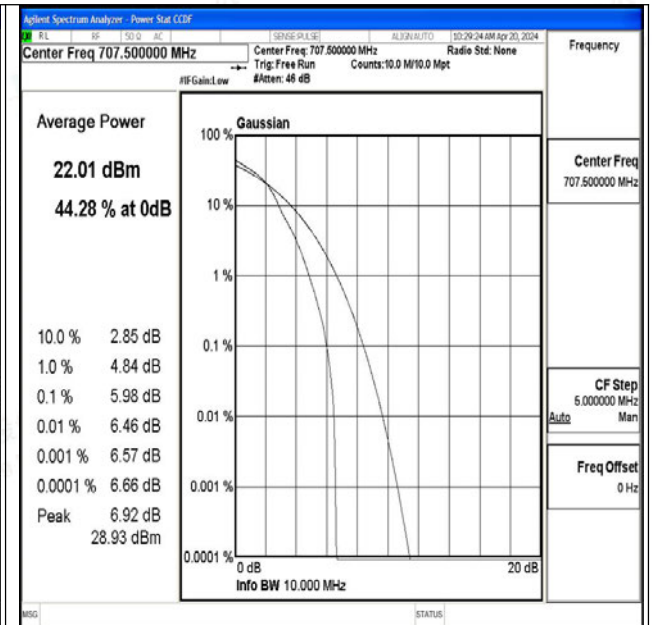
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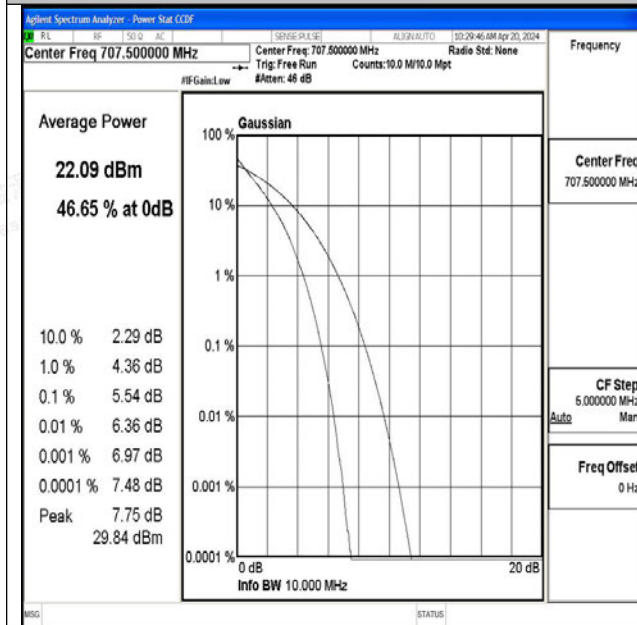
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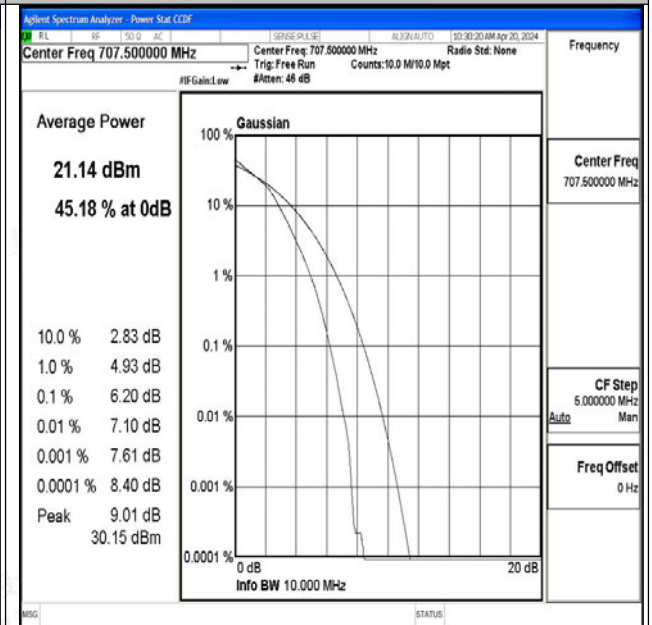
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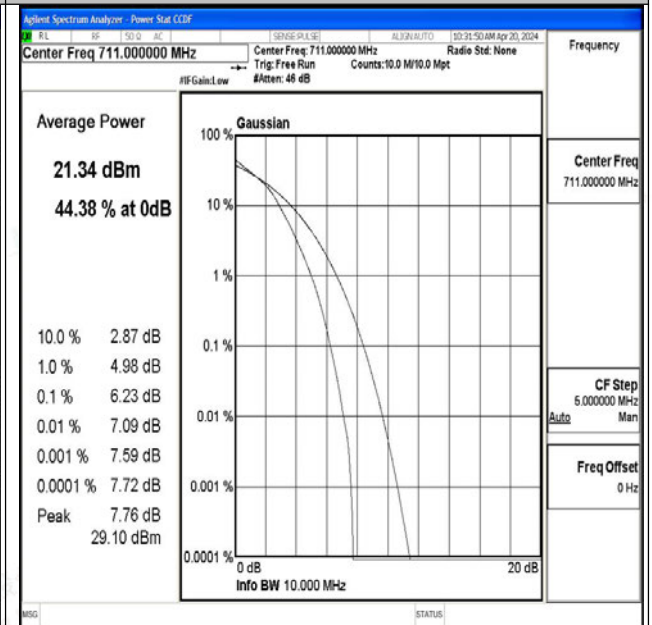
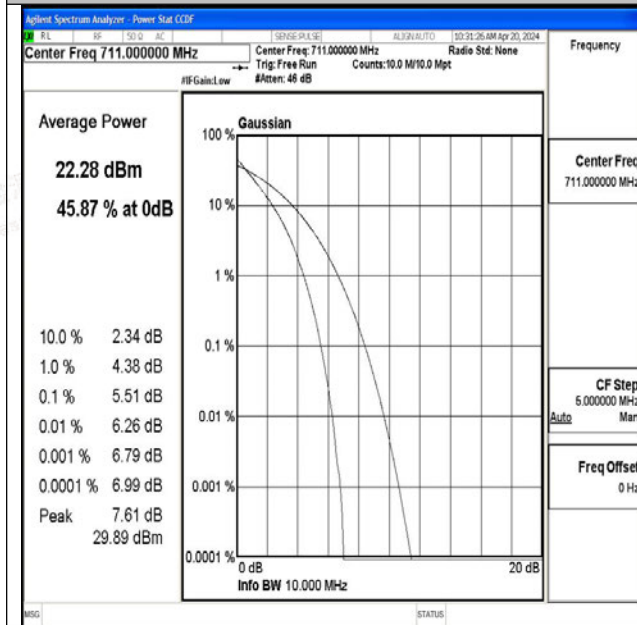
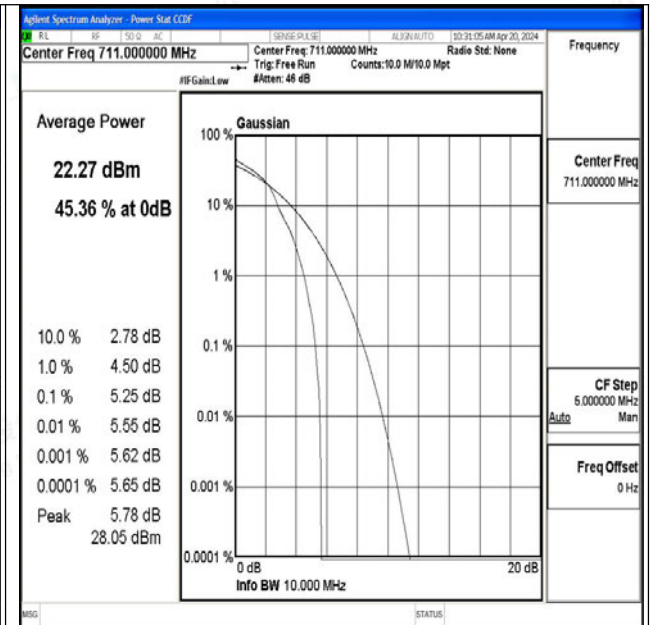
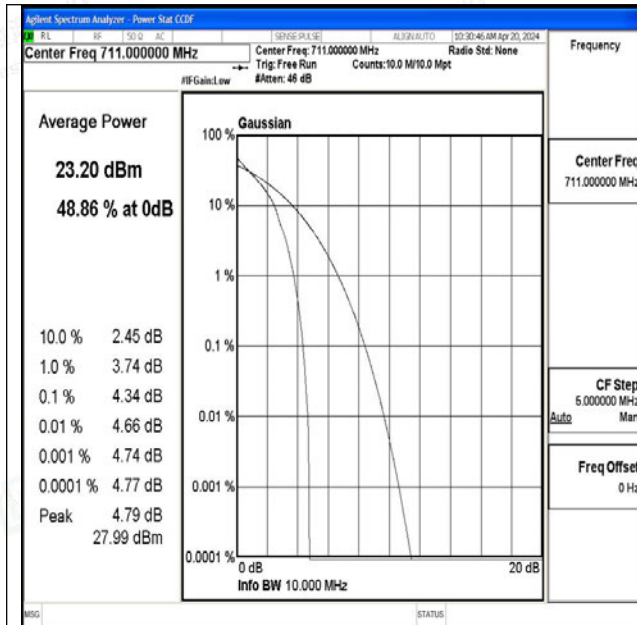


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G.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0926	1.298	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0980	1.293	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0903	1.294	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0904	1.304	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0917	1.289	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0973	1.298	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6871	2.908	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6785	2.909	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6850	2.885	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6792	2.903	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6898	2.885	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6837	2.887	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5280	5.720	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5277	5.266	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5188	5.183	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5138	5.076	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5231	5.209	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5312	5.149	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0110	10.37	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0144	10.27	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0149	10.56	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0002	10.30	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0102	10.16	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.0018	10.07	PASS



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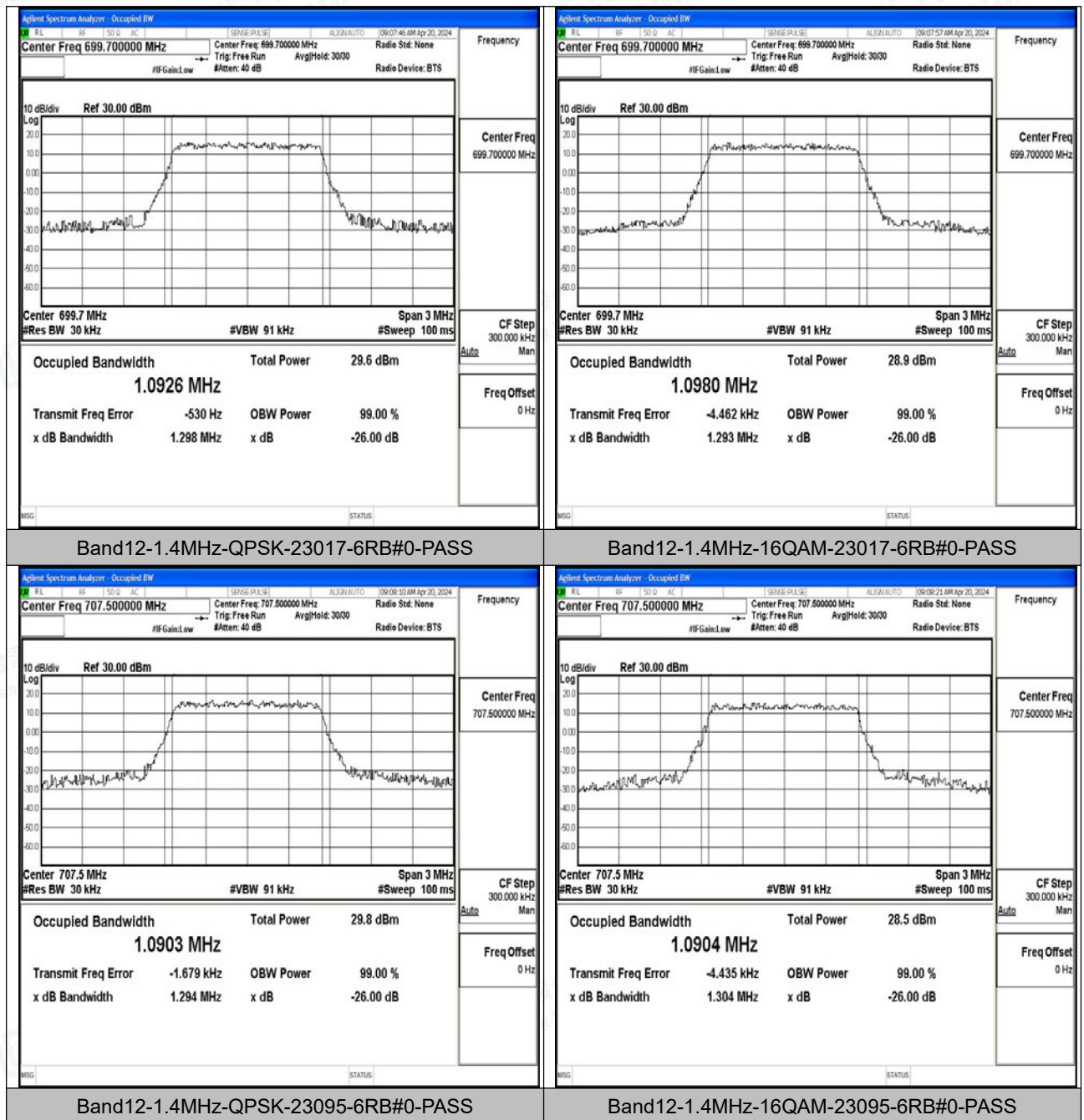
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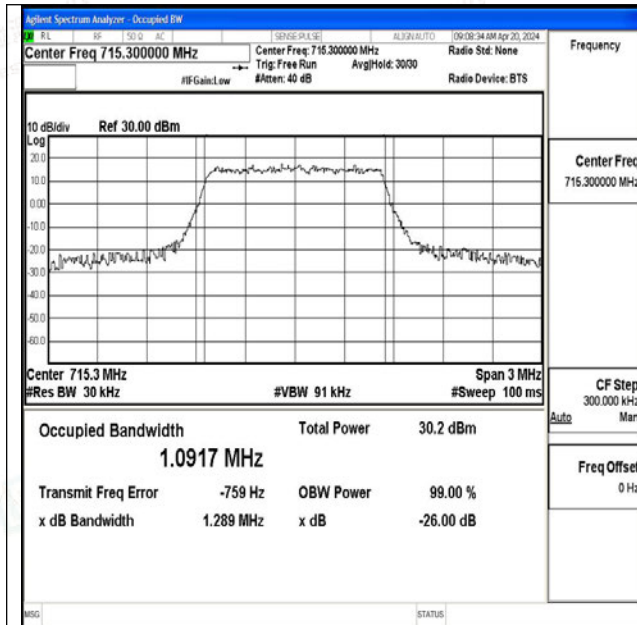
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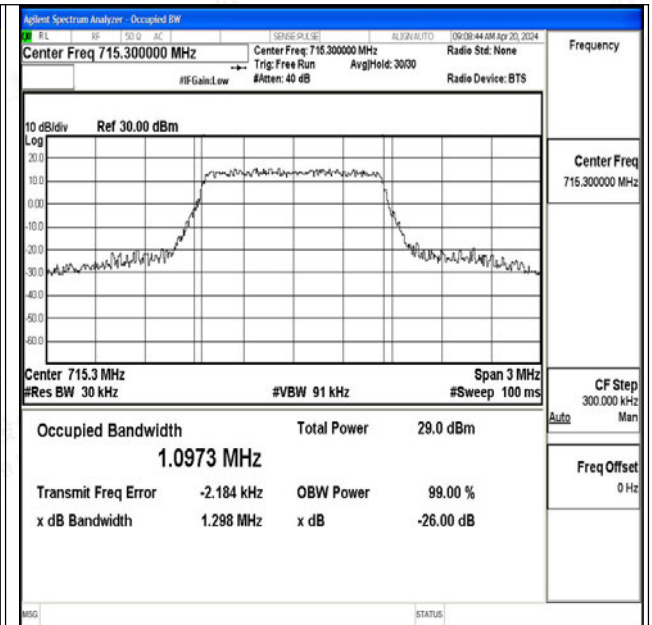


Test Graphs

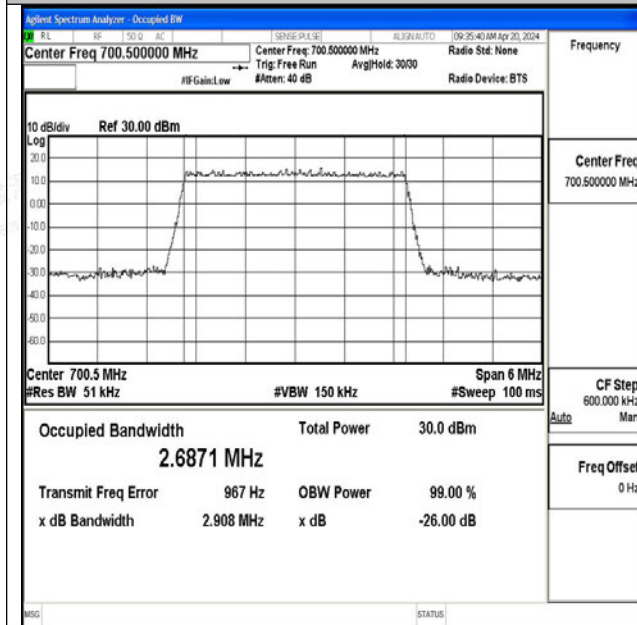




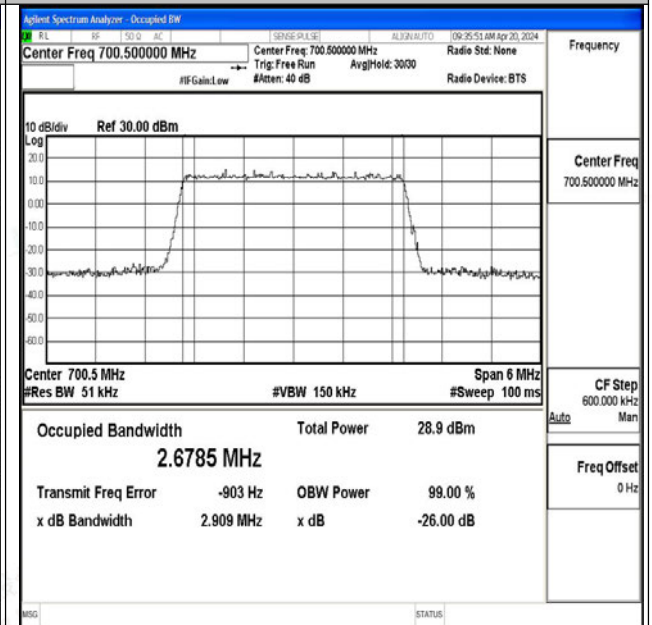
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Band12-1.4MHz-16QAM-23173-6RB#0-PASS



Band12-3MHz-QPSK-23025-15RB#0-PASS



Band12-3MHz-16QAM-23025-15RB#0-PASS

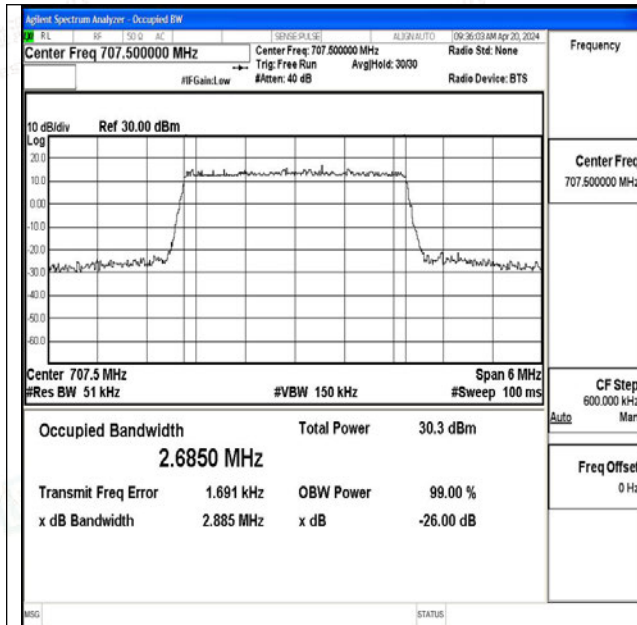


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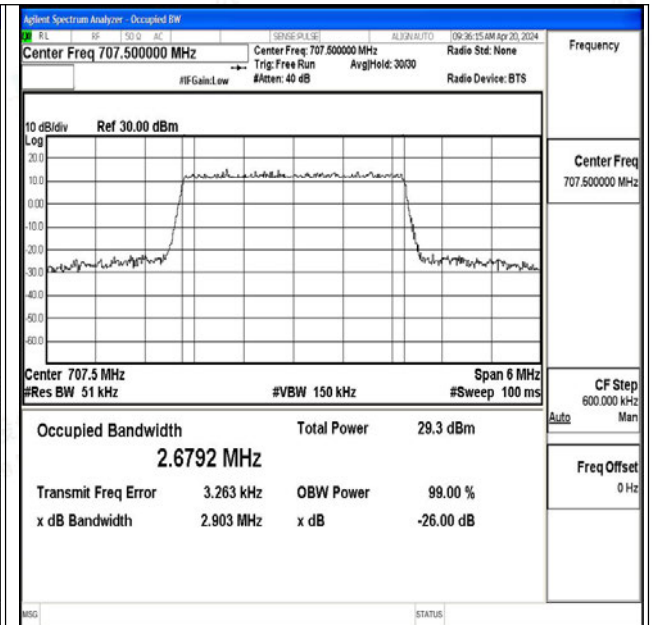
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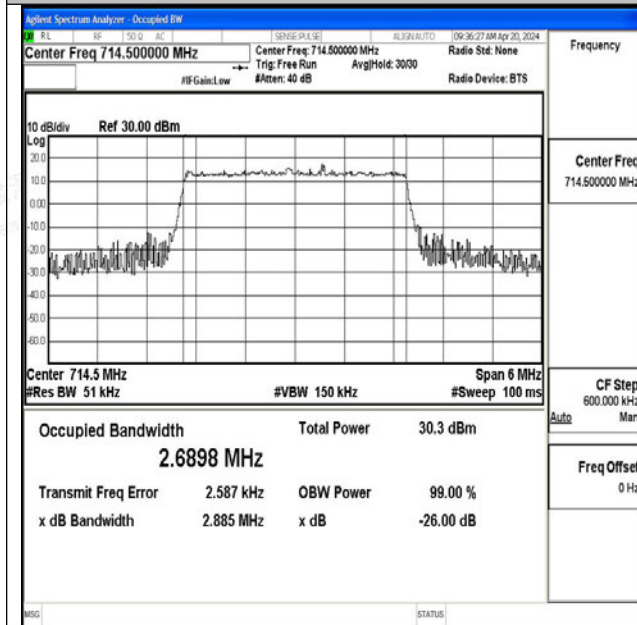
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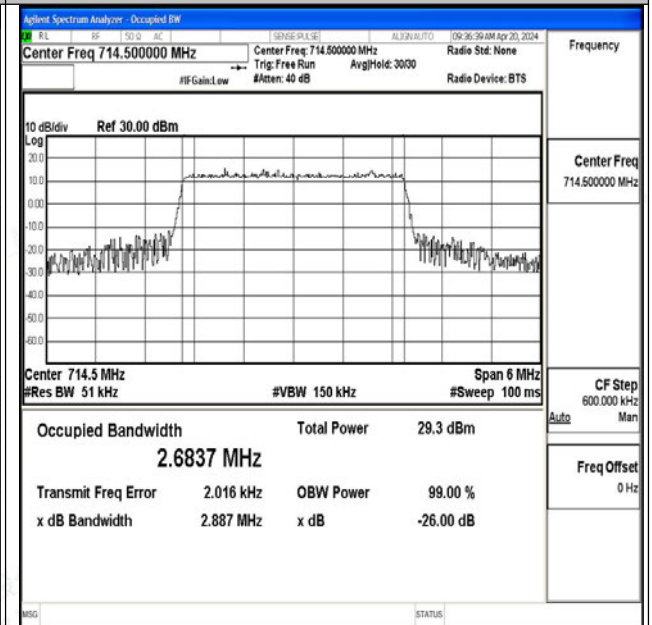
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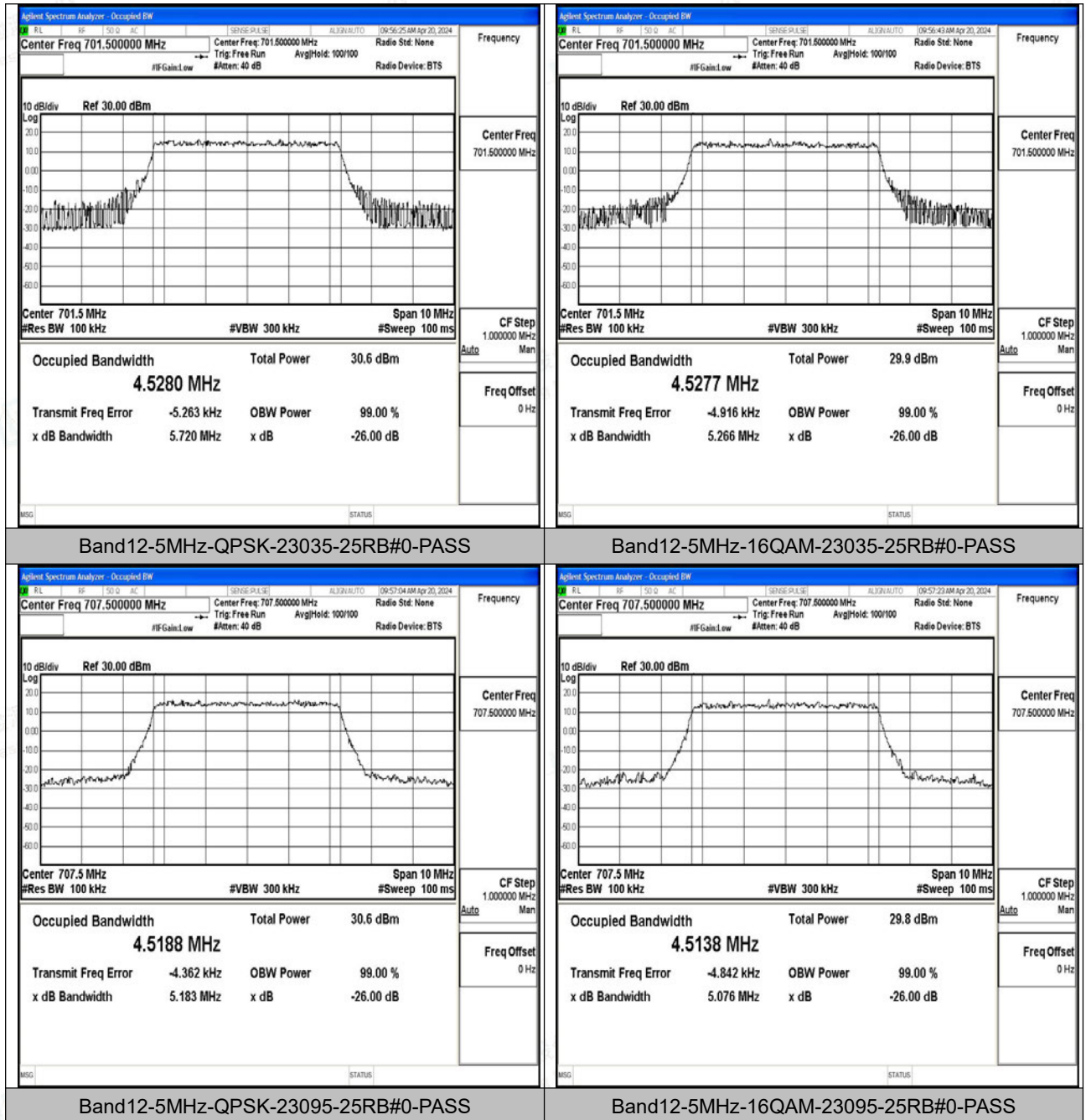


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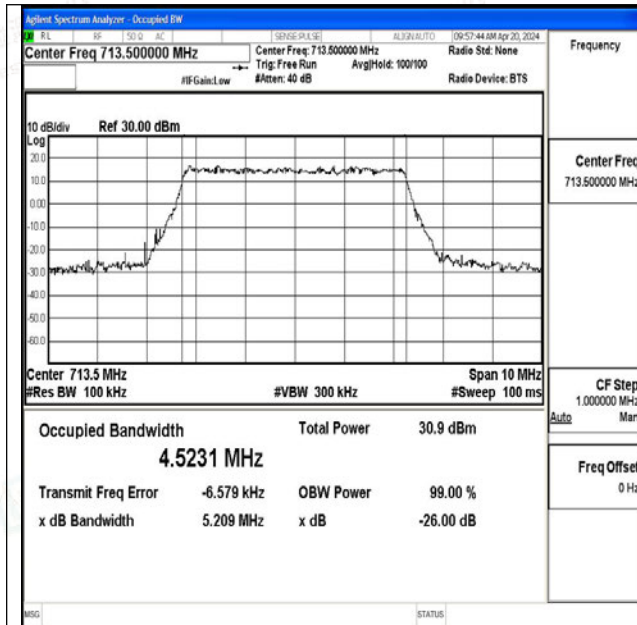


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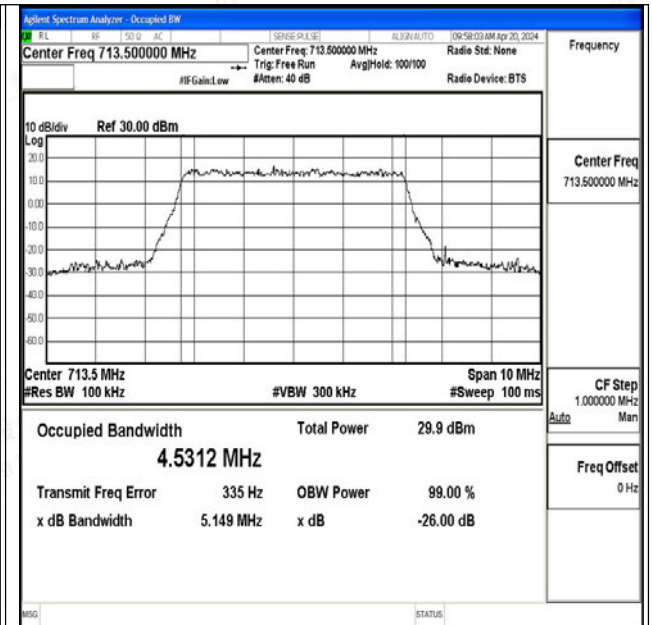
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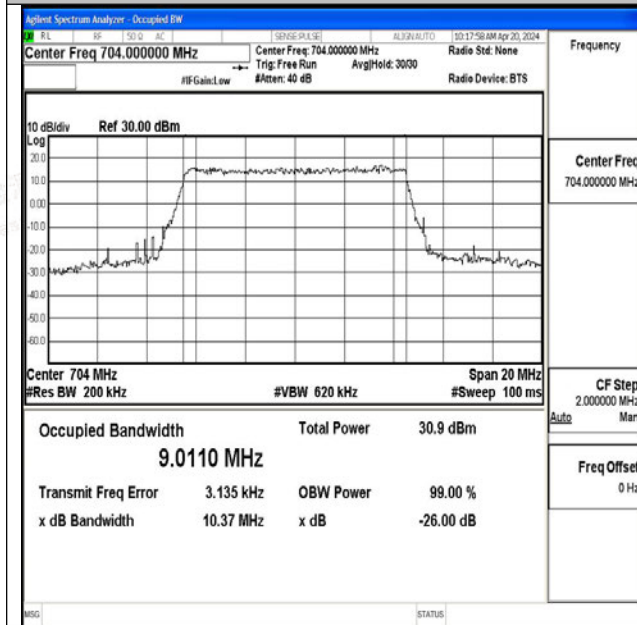
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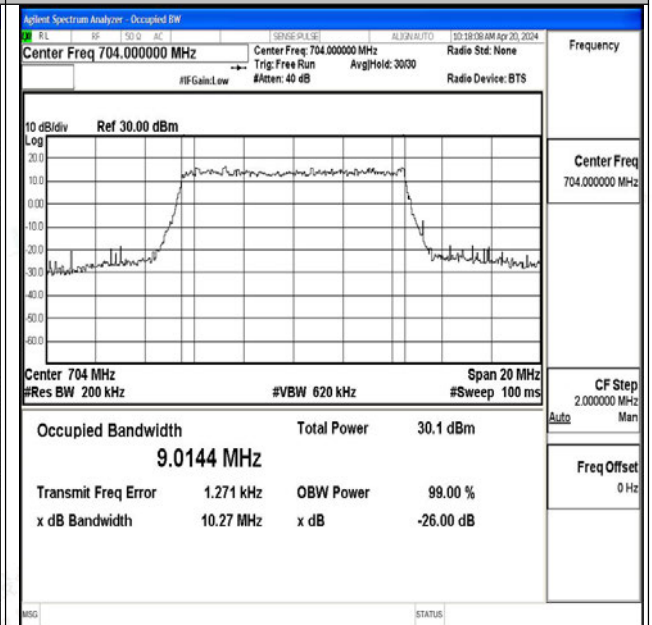
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Band12-5MHz-16QAM-23155-25RB#0-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS



Band12-10MHz-16QAM-23060-50RB#0-PASS

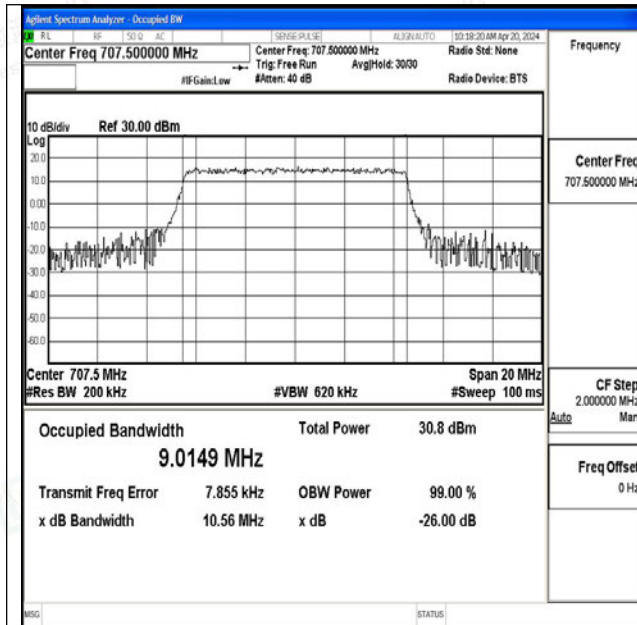


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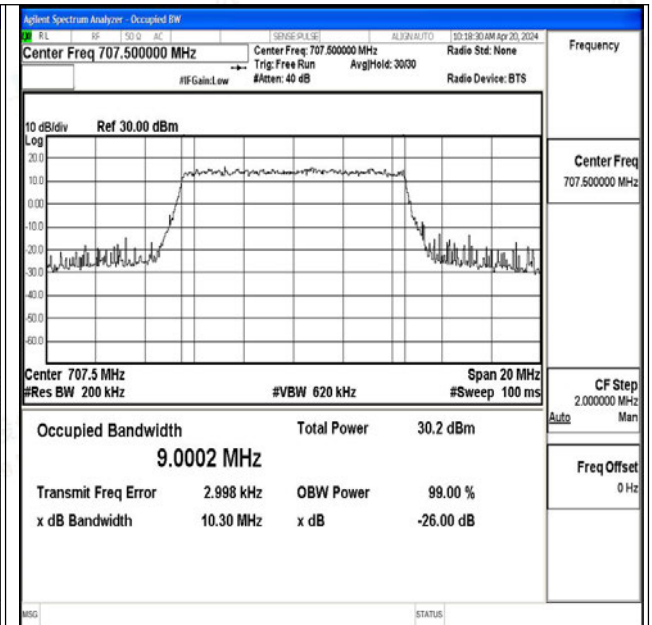
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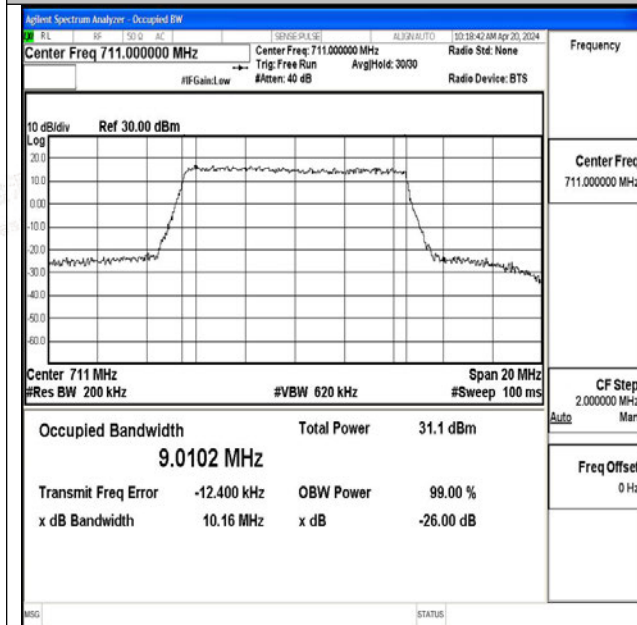
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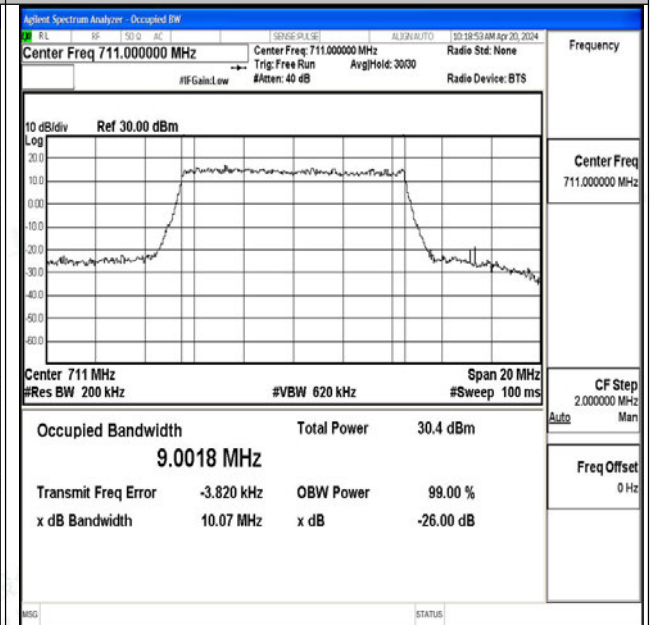
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Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23130-50RB#0-PASS



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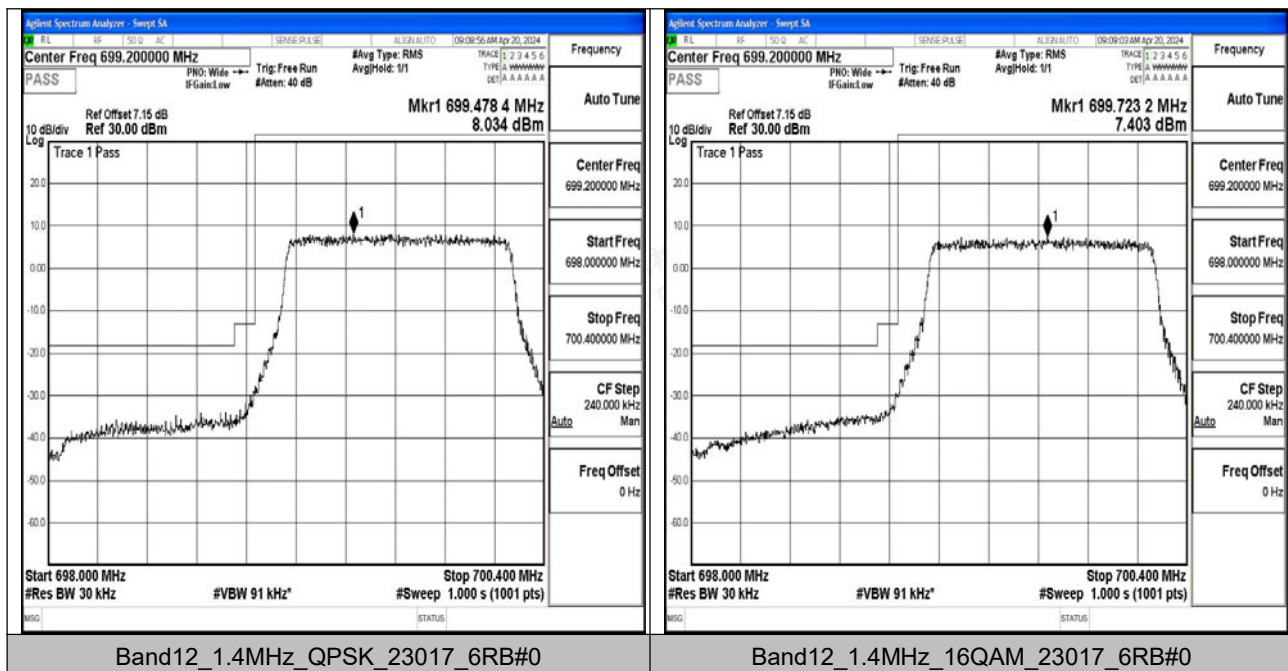


G.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-34.01	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-34.59	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-29.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-30.43	PASS
Band12	3MHz	QPSK	23025	15RB#0	-33.30	PASS
Band12	3MHz	16QAM	23025	15RB#0	-38.27	PASS
Band12	3MHz	QPSK	23165	15RB#0	-34.57	PASS
Band12	3MHz	16QAM	23165	15RB#0	-32.76	PASS
Band12	5MHz	QPSK	23035	25RB#0	-31.91	PASS
Band12	5MHz	16QAM	23035	25RB#0	-31.72	PASS
Band12	5MHz	QPSK	23155	25RB#0	-31.51	PASS
Band12	5MHz	16QAM	23155	25RB#0	-32.98	PASS
Band12	10MHz	QPSK	23060	50RB#0	-37.54	PASS
Band12	10MHz	16QAM	23060	50RB#0	-38.39	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.52	PASS
Band12	10MHz	16QAM	23130	50RB#0	-38.65	PASS

Test Graphs

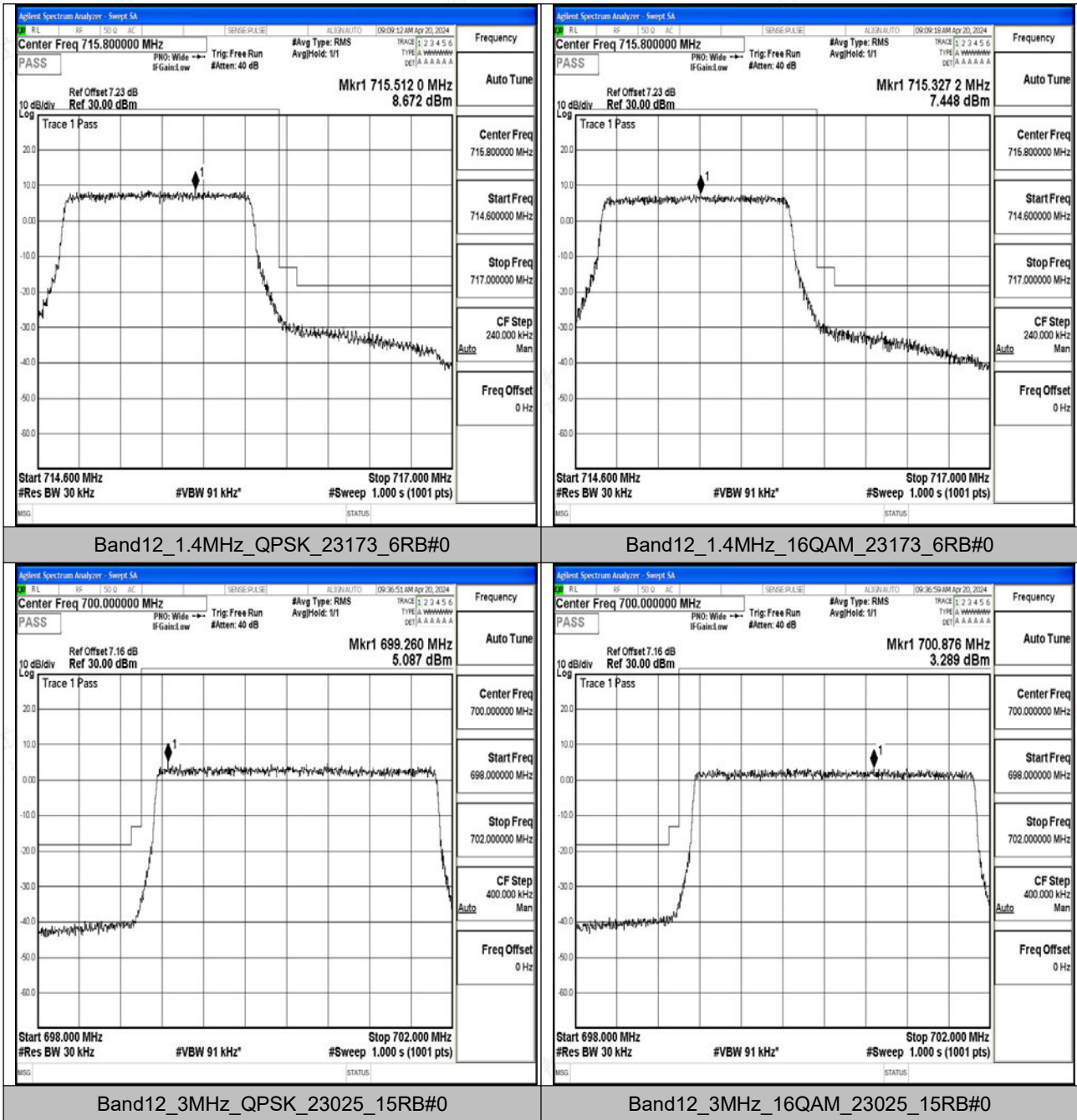


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