



Appendix N: Test Data for E-UTRA Band 71

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





N.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.00	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.97	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.13	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.03	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.03	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.99	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.05	PASS
Band71	5MHz	16QAM	133147	12RB#0	20.99	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.02	PASS
Band71	5MHz	16QAM	133147	12RB#6	20.94	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.09	PASS
Band71	5MHz	16QAM	133147	12RB#13	21.02	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.09	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.08	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.97	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.04	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.07	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.15	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.93	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.04	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.03	PASS
Band71	5MHz	16QAM	133297	12RB#0	21.04	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.03	PASS
Band71	5MHz	16QAM	133297	12RB#6	21.05	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.01	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.00	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.07	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.00	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.96	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.92	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.07	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.95	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.96	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.93	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.99	PASS
Band71	5MHz	16QAM	133447	12RB#0	21.02	PASS



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Band71	5MHz	QPSK	133447	12RB#6	22.04	PASS
Band71	5MHz	16QAM	133447	12RB#6	20.99	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.96	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.97	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.05	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.05	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.07	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.95	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.17	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.06	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.05	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.92	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.06	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.07	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.01	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.00	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.08	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.12	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.09	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.09	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.09	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.92	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.14	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.94	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.01	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.84	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.15	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.16	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.16	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.15	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.08	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.10	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.12	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.11	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.97	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.05	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.10	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.16	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.99	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.07	PASS



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Band71	10MHz	QPSK	133422	25RB#0	22.17	PASS
Band71	10MHz	16QAM	133422	25RB#0	21.20	PASS
Band71	10MHz	QPSK	133422	25RB#12	22.15	PASS
Band71	10MHz	16QAM	133422	25RB#12	21.16	PASS
Band71	10MHz	QPSK	133422	25RB#25	22.00	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.99	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.06	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.03	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.91	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.04	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.00	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.19	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.90	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.10	PASS
Band71	15MHz	QPSK	133197	38RB#0	22.11	PASS
Band71	15MHz	16QAM	133197	38RB#0	22.09	PASS
Band71	15MHz	QPSK	133197	38RB#18	22.20	PASS
Band71	15MHz	16QAM	133197	38RB#18	22.16	PASS
Band71	15MHz	QPSK	133197	38RB#37	22.12	PASS
Band71	15MHz	16QAM	133197	38RB#37	22.08	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.07	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.09	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.06	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.82	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.07	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.89	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.96	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.80	PASS
Band71	15MHz	QPSK	133297	38RB#0	21.82	PASS
Band71	15MHz	16QAM	133297	38RB#0	21.84	PASS
Band71	15MHz	QPSK	133297	38RB#18	21.87	PASS
Band71	15MHz	16QAM	133297	38RB#18	21.87	PASS
Band71	15MHz	QPSK	133297	38RB#37	21.80	PASS
Band71	15MHz	16QAM	133297	38RB#37	21.75	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.07	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.08	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.99	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.93	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.98	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.05	PASS



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Band71	15MHz	QPSK	133397	1RB#74	22.90	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.92	PASS
Band71	15MHz	QPSK	133397	38RB#0	21.93	PASS
Band71	15MHz	16QAM	133397	38RB#0	21.90	PASS
Band71	15MHz	QPSK	133397	38RB#18	22.08	PASS
Band71	15MHz	16QAM	133397	38RB#18	22.04	PASS
Band71	15MHz	QPSK	133397	38RB#37	21.90	PASS
Band71	15MHz	16QAM	133397	38RB#37	22.04	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.05	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.98	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.81	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.97	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.13	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.40	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.78	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.94	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.98	PASS
Band71	20MHz	16QAM	133222	50RB#0	20.96	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.92	PASS
Band71	20MHz	16QAM	133222	50RB#25	21.00	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.07	PASS
Band71	20MHz	16QAM	133222	50RB#50	21.05	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.00	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.95	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.82	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.67	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.19	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.96	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.73	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.62	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.13	PASS
Band71	20MHz	16QAM	133322	50RB#0	21.14	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.18	PASS
Band71	20MHz	16QAM	133322	50RB#25	21.19	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.04	PASS
Band71	20MHz	16QAM	133322	50RB#50	21.14	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.05	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.05	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.80	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.79	PASS



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Band71	20MHz	QPSK	133372	1RB#49	23.24	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.12	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.79	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.74	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.11	PASS
Band71	20MHz	16QAM	133372	50RB#0	21.08	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.10	PASS
Band71	20MHz	16QAM	133372	50RB#25	21.14	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.03	PASS
Band71	20MHz	16QAM	133372	50RB#50	21.01	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.05	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.04	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	4.81	13	PASS
Band71	5MHz	16QAM	133147	1RB#0	5.35	13	PASS
Band71	5MHz	QPSK	133147	25RB#0	5.64	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.26	13	PASS
Band71	5MHz	QPSK	133297	1RB#0	5.47	13	PASS
Band71	5MHz	16QAM	133297	1RB#0	5.86	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.70	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.30	13	PASS
Band71	5MHz	QPSK	133447	1RB#0	5.40	13	PASS
Band71	5MHz	16QAM	133447	1RB#0	5.79	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.64	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.25	13	PASS
Band71	10MHz	QPSK	133172	1RB#0	4.76	13	PASS
Band71	10MHz	16QAM	133172	1RB#0	5.61	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.61	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.27	13	PASS
Band71	10MHz	QPSK	133297	1RB#0	5.25	13	PASS
Band71	10MHz	16QAM	133297	1RB#0	6.11	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.69	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.33	13	PASS
Band71	10MHz	QPSK	133422	1RB#0	5.28	13	PASS
Band71	10MHz	16QAM	133422	1RB#0	6.16	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.64	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.29	13	PASS
Band71	15MHz	QPSK	133197	1RB#0	4.87	13	PASS
Band71	15MHz	16QAM	133197	1RB#0	5.71	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.86	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.31	13	PASS
Band71	15MHz	QPSK	133297	1RB#0	5.15	13	PASS
Band71	15MHz	16QAM	133297	1RB#0	6.02	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.98	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.41	13	PASS
Band71	15MHz	QPSK	133397	1RB#0	5.36	13	PASS
Band71	15MHz	16QAM	133397	1RB#0	6.22	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.91	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.35	13	PASS



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Band71	20MHz	QPSK	133222	1RB#0	4.88	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.49	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.55	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.26	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	5.06	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	5.64	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.66	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.35	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	5.47	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	6.24	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.66	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.30	13	PASS



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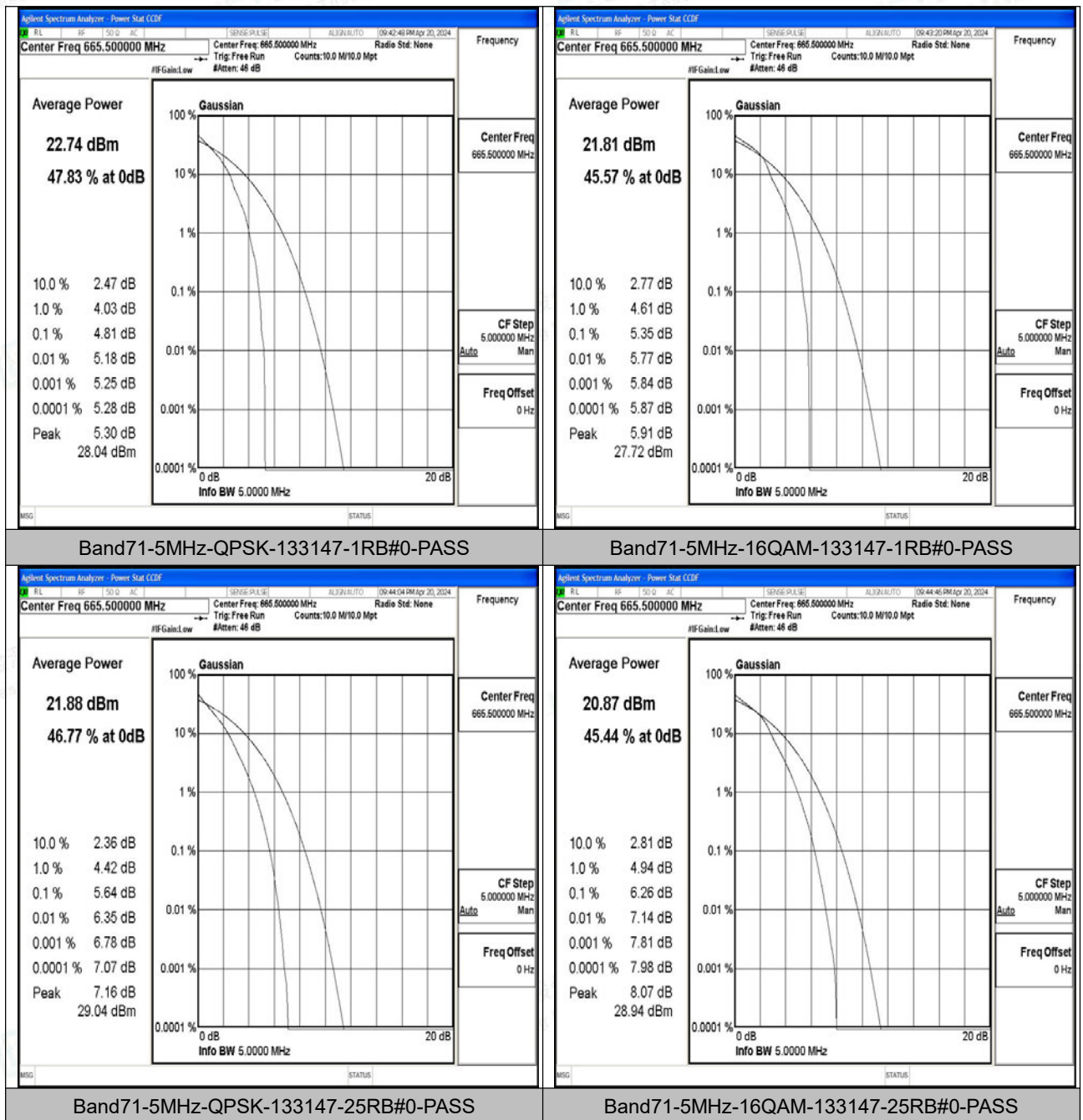
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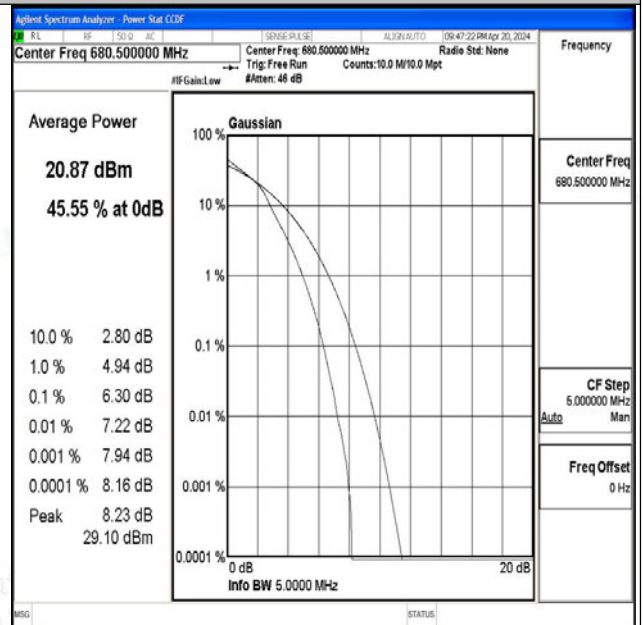
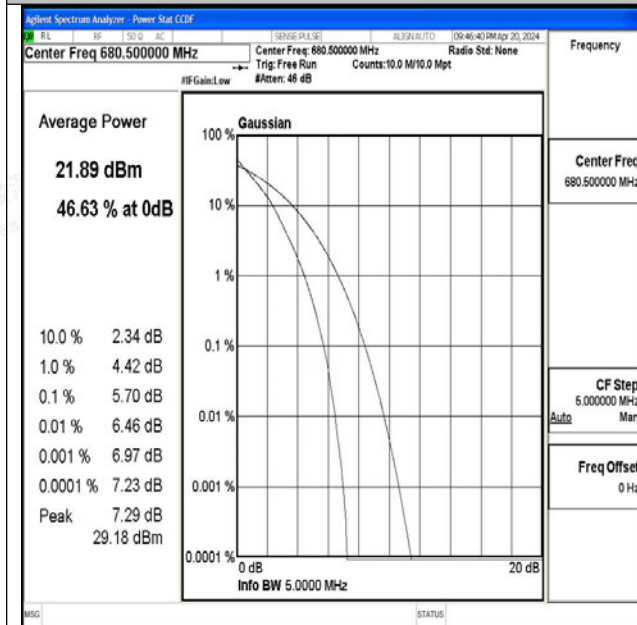
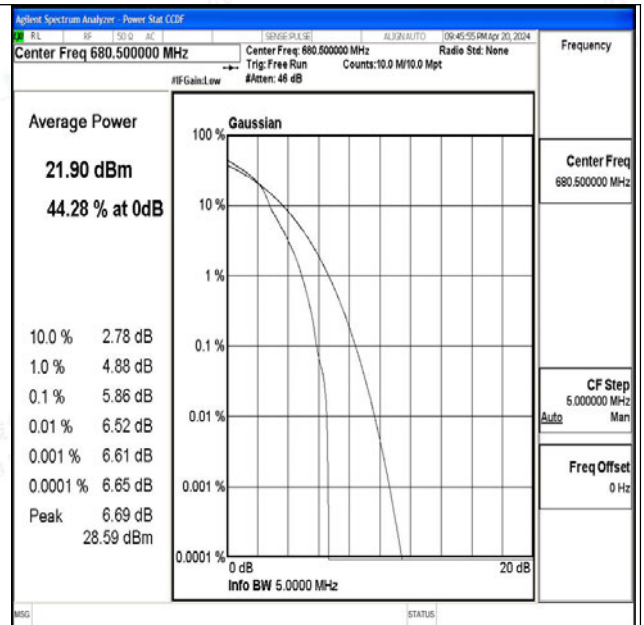
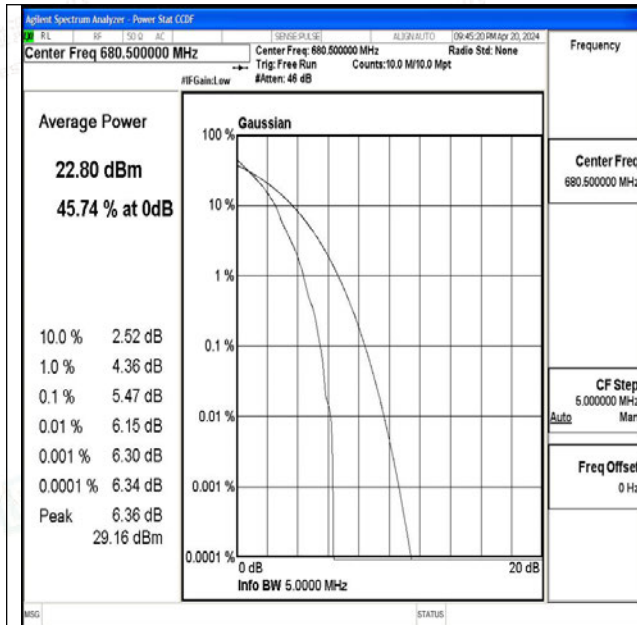
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Test Graphs



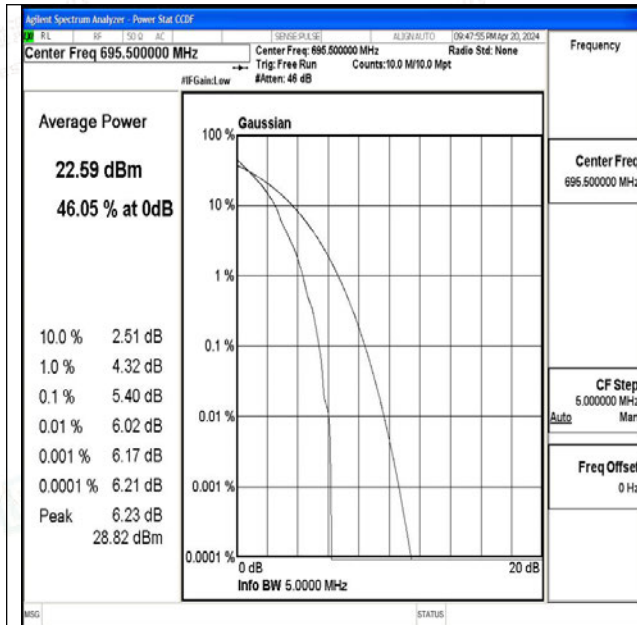


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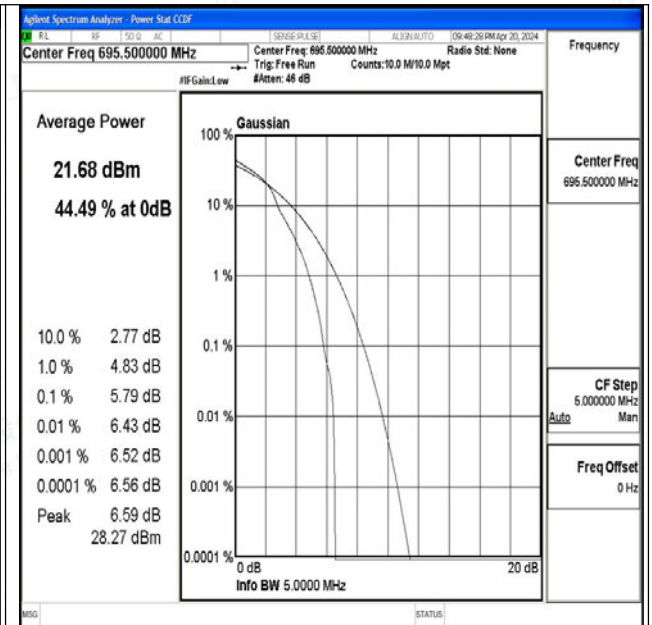
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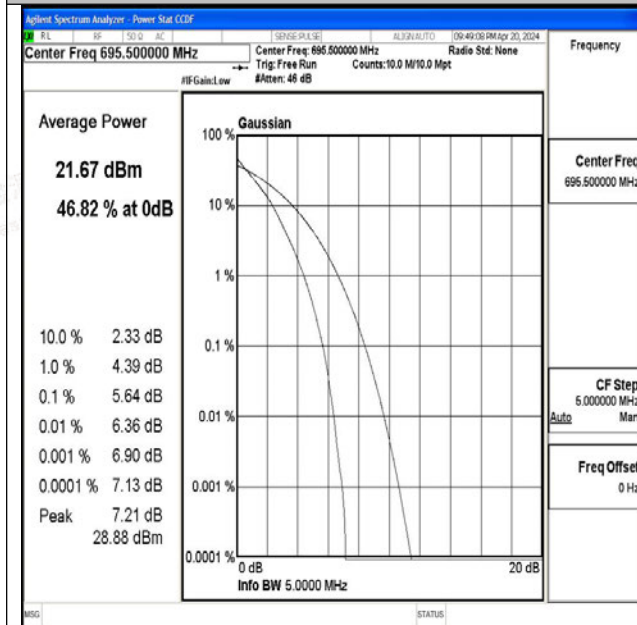
Scan code to check authenticity



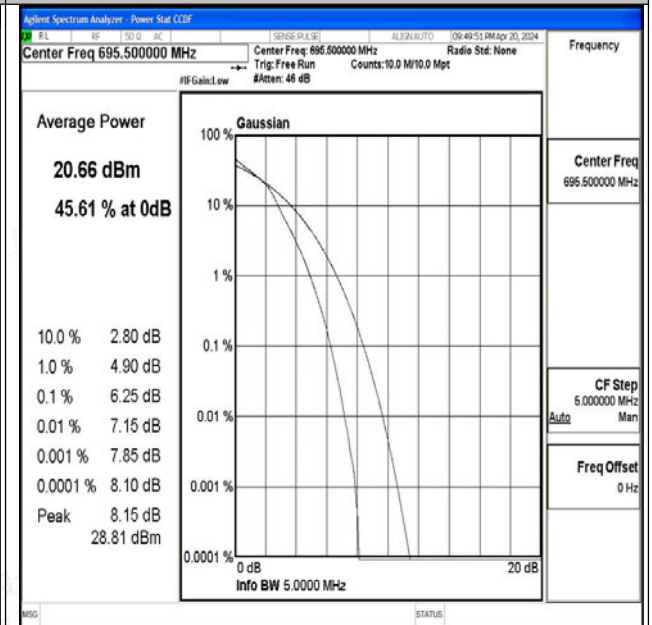
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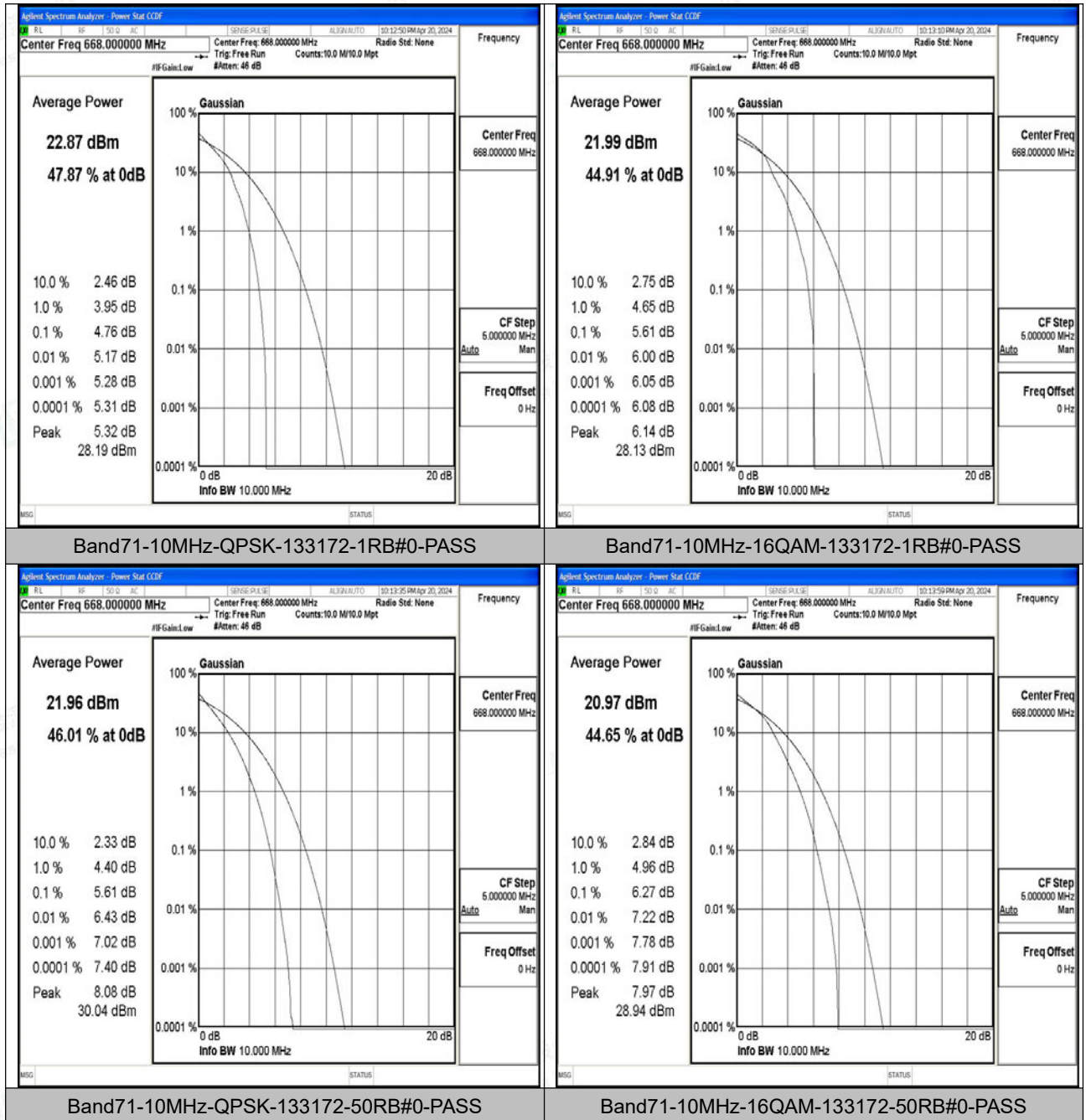


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Scan code to check authenticity

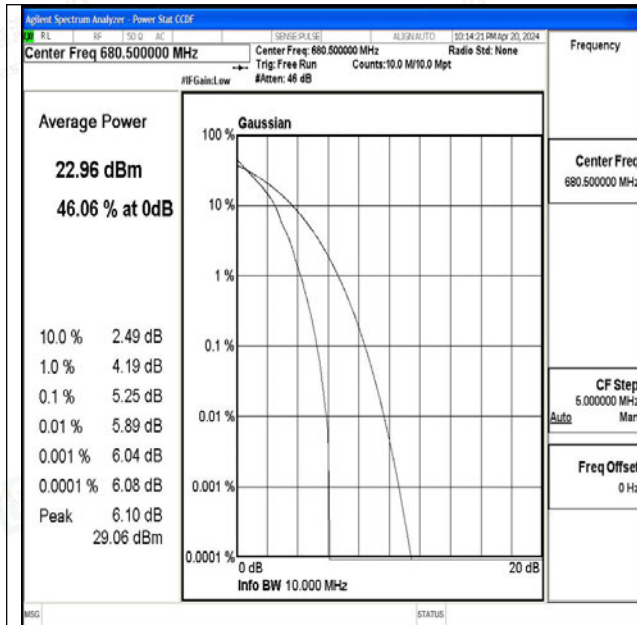


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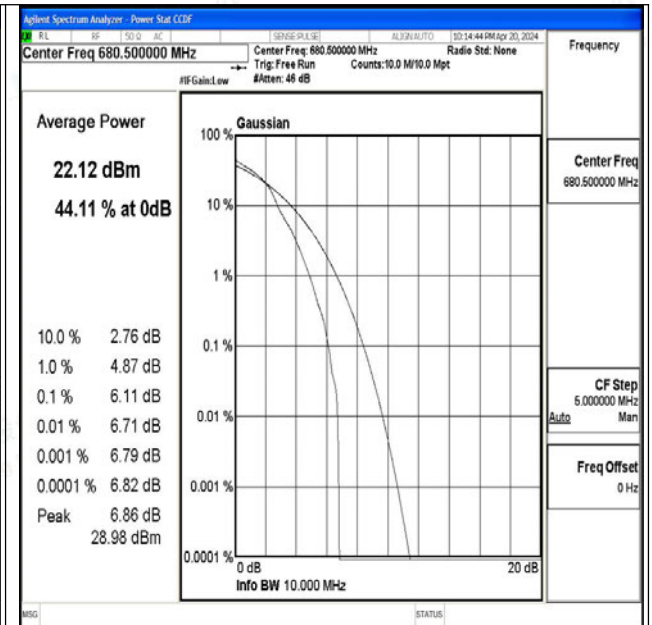
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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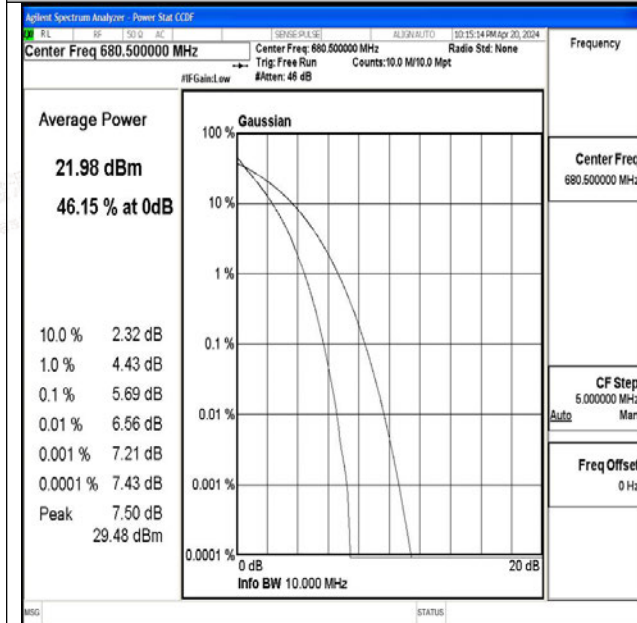
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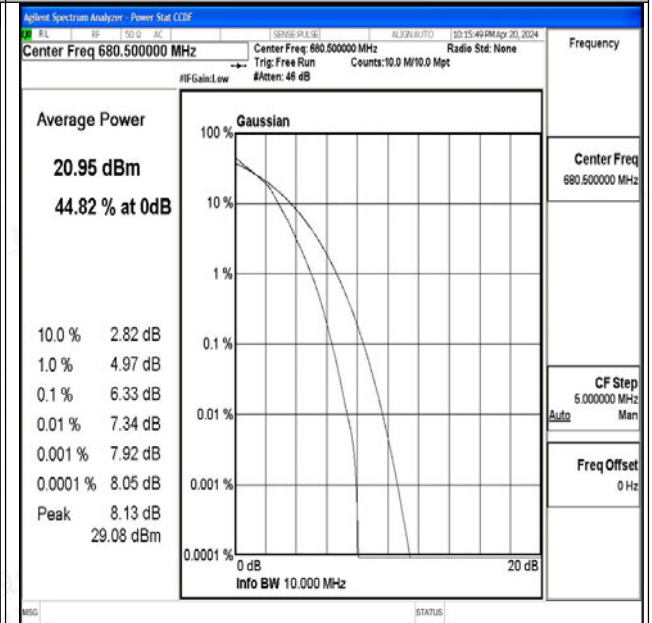
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Band71-10MHz-QPSK-133297-50RB#0-PASS



Band71-10MHz-16QAM-133297-50RB#0-PASS

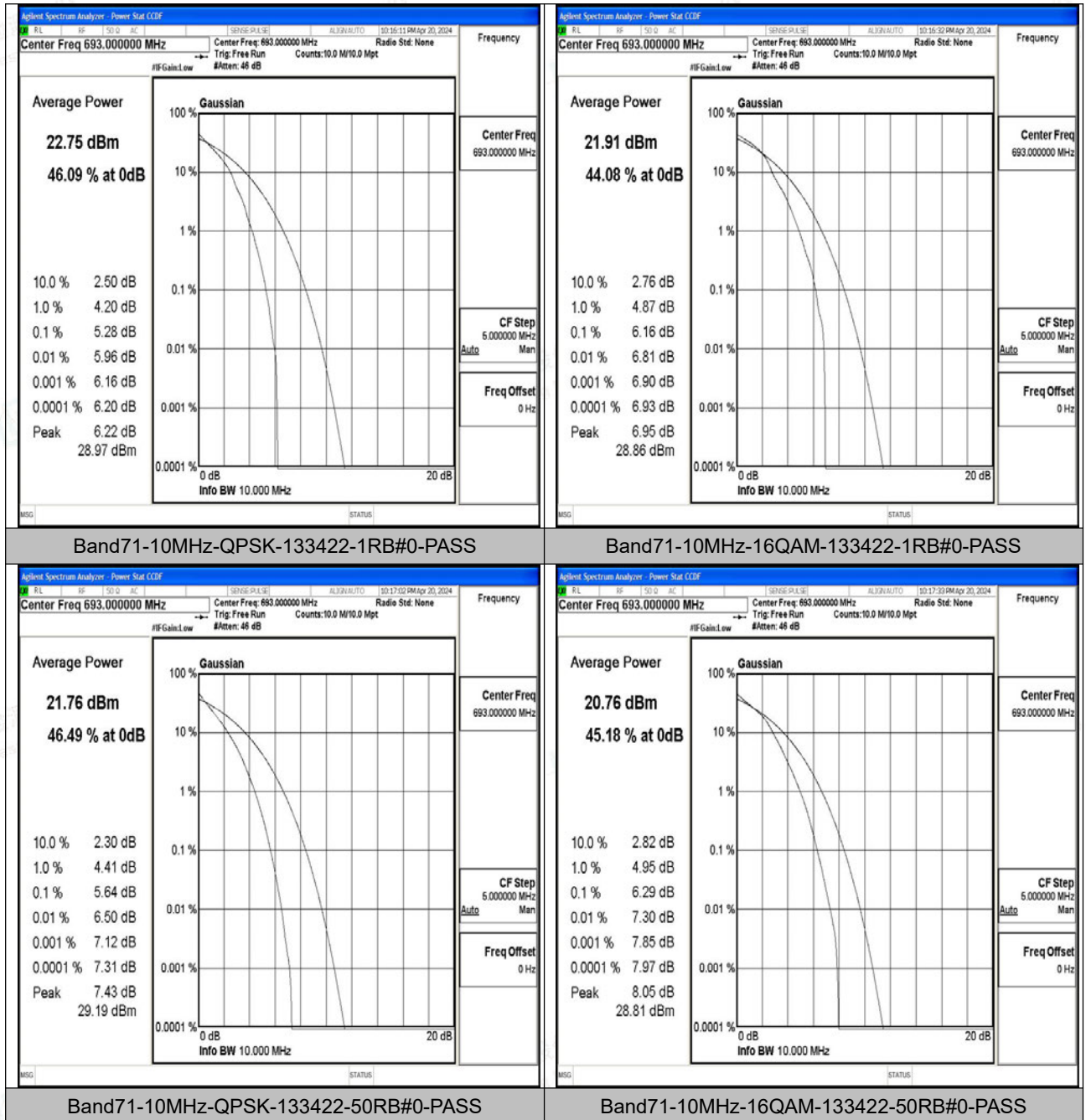


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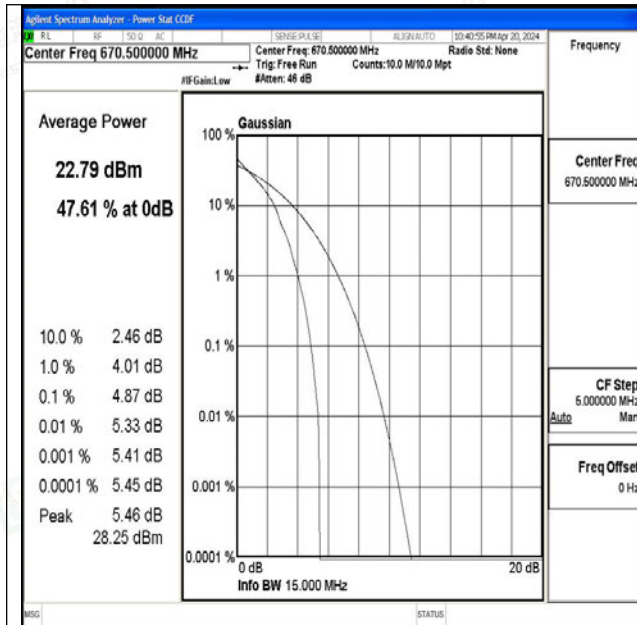


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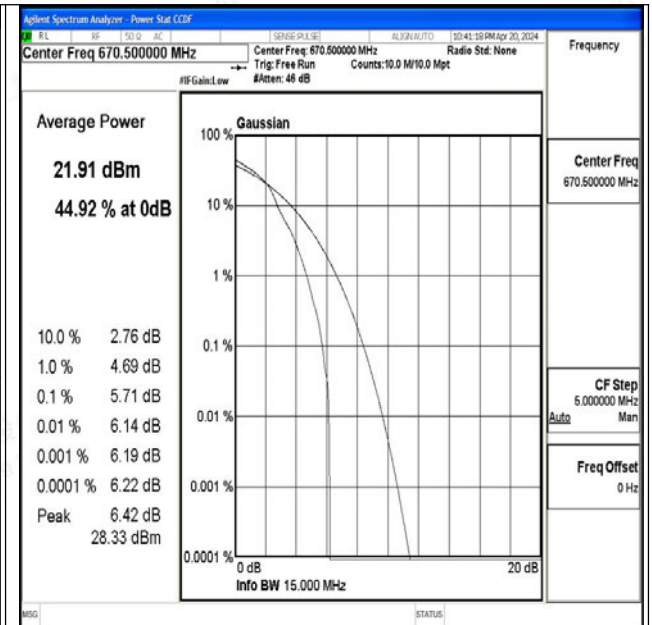
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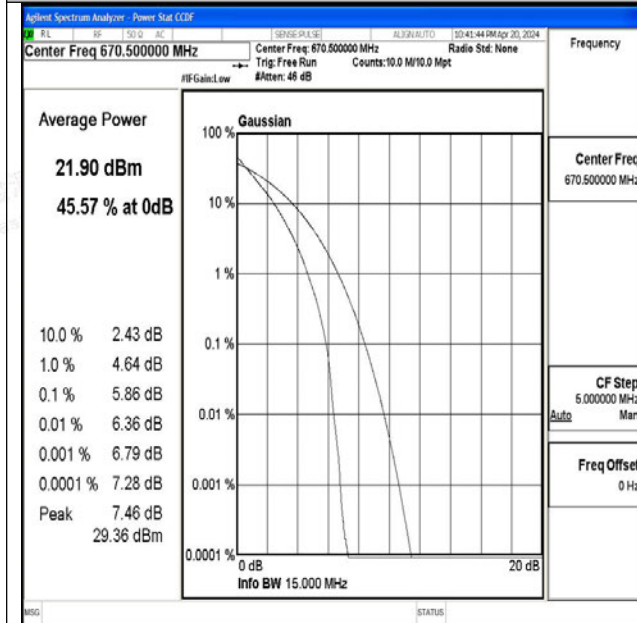
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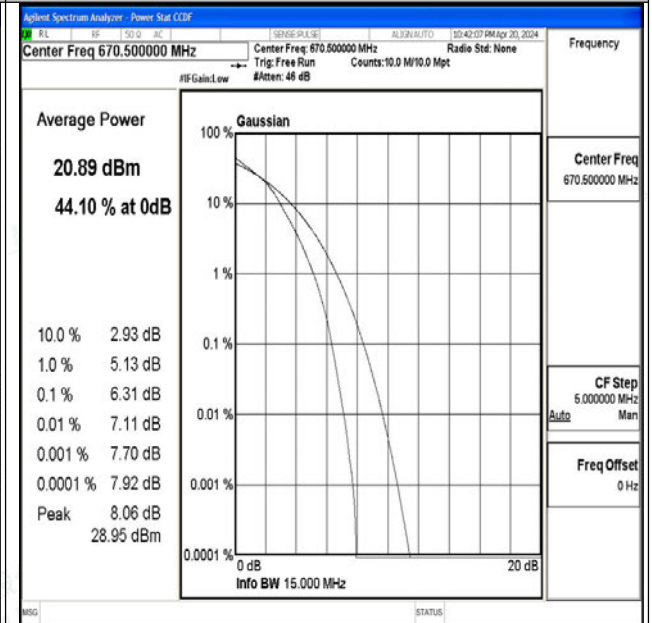
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Band71-15MHz-16QAM-133197-1RB#0-PASS



Band71-15MHz-QPSK-133197-75RB#0-PASS



Band71-15MHz-16QAM-133197-75RB#0-PASS

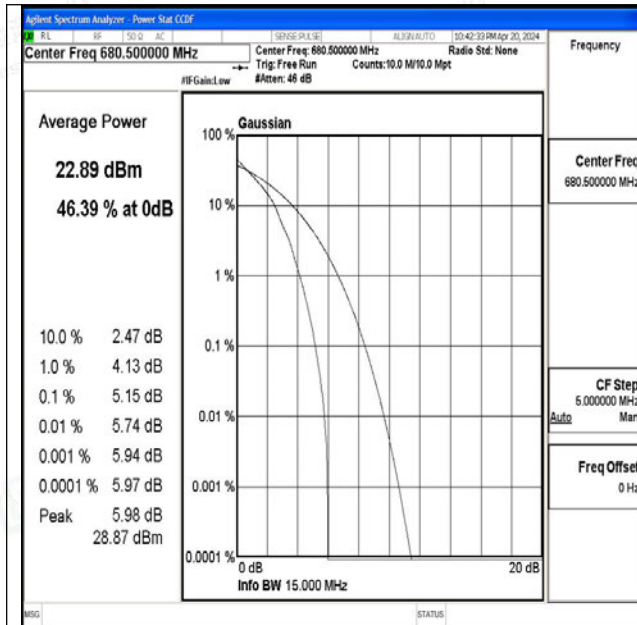


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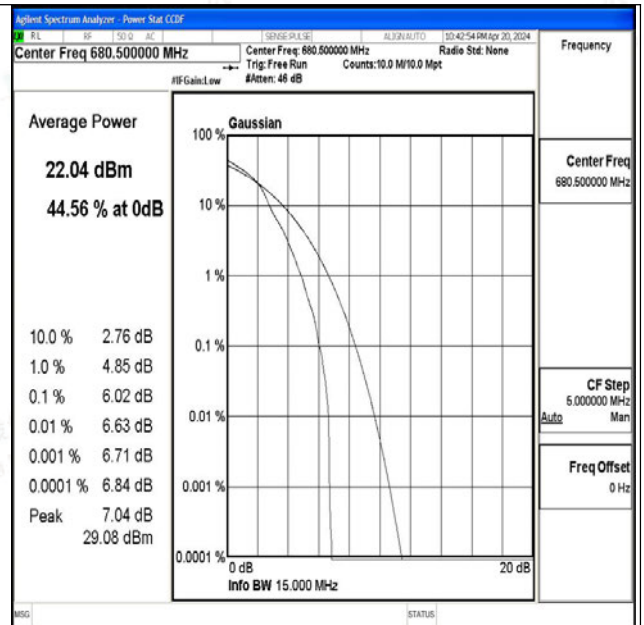
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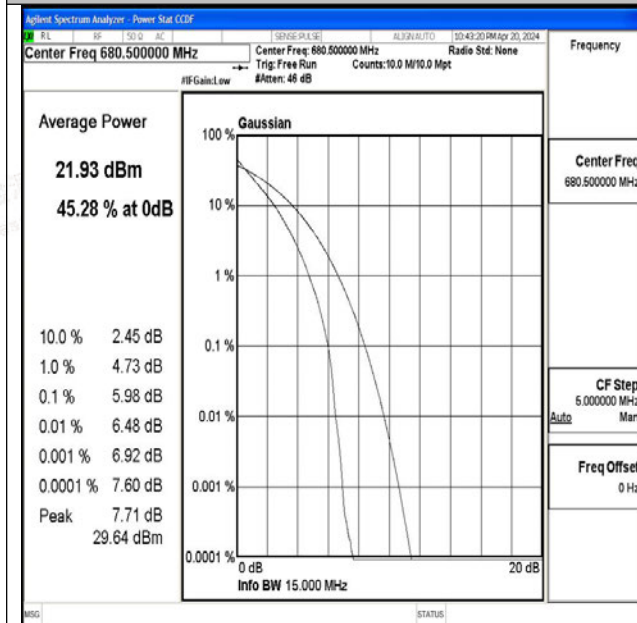
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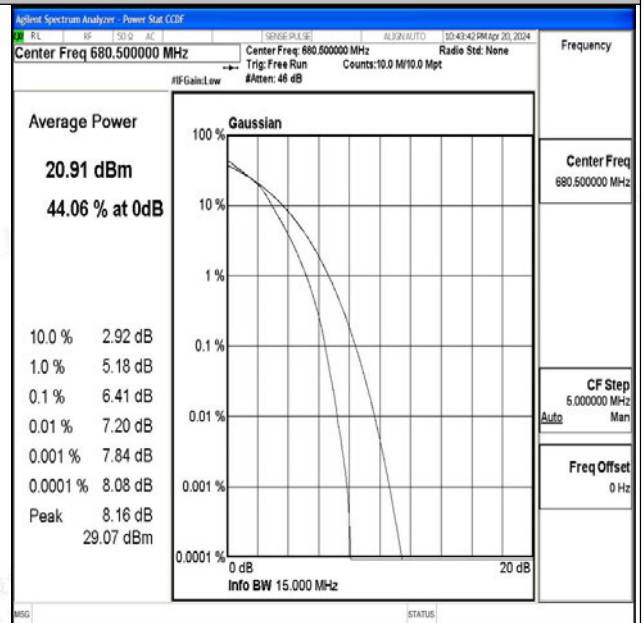
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Band71-15MHz-16QAM-133297-1RB#0-PASS



Band71-15MHz-QPSK-133297-75RB#0-PASS



Band71-15MHz-16QAM-133297-75RB#0-PASS

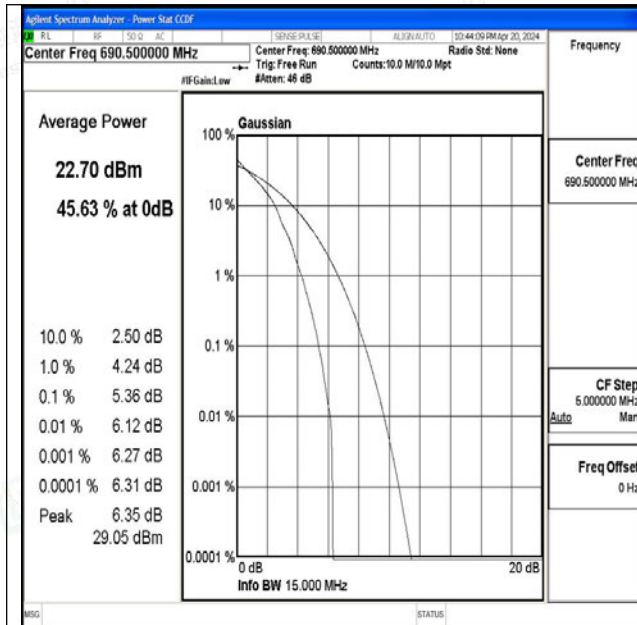


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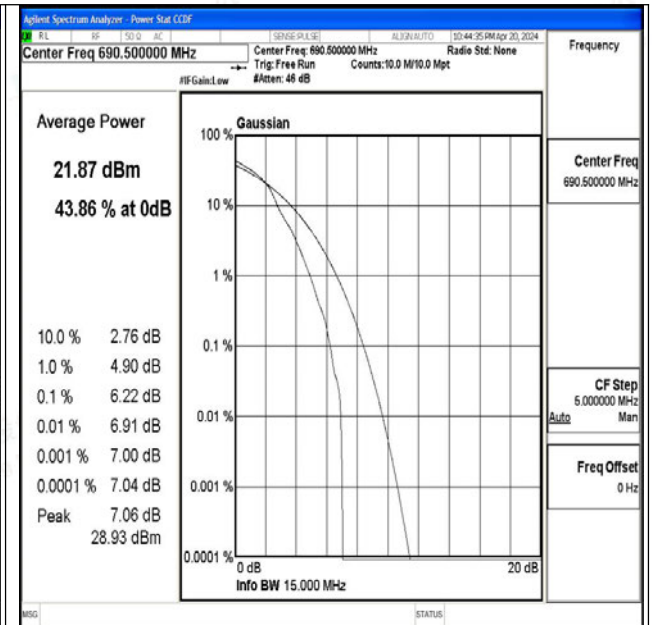
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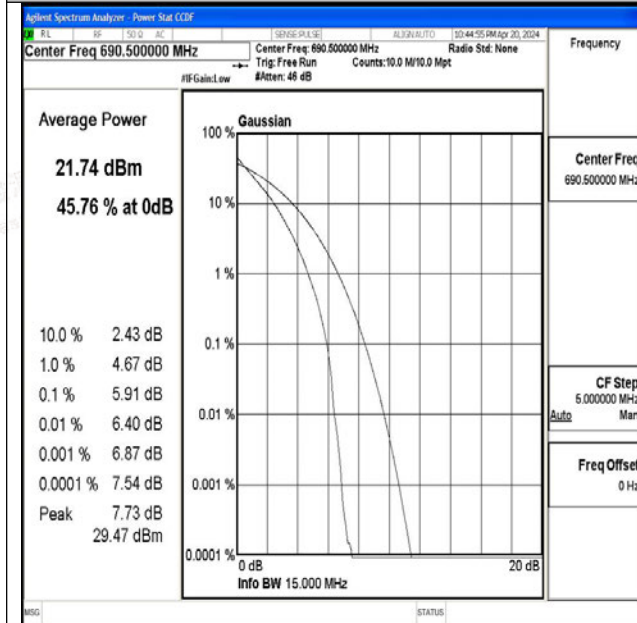
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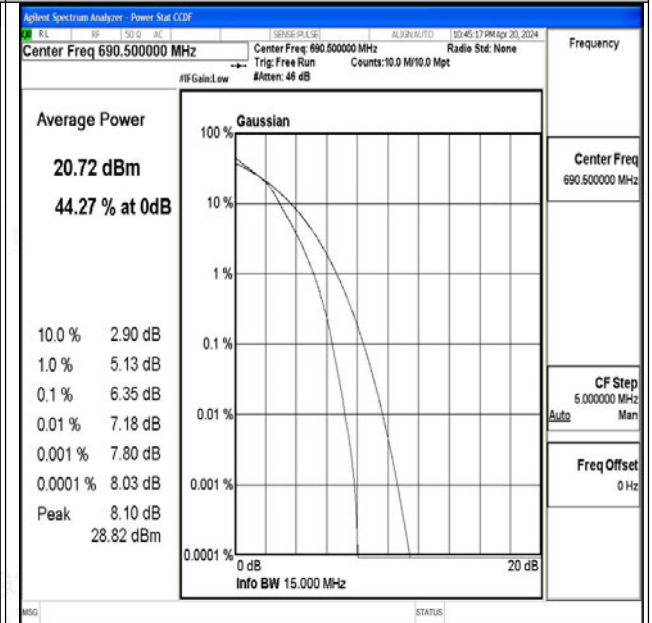
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Band71-15MHz-16QAM-133397-1RB#0-PASS



Band71-15MHz-QPSK-133397-75RB#0-PASS



Band71-15MHz-16QAM-133397-75RB#0-PASS

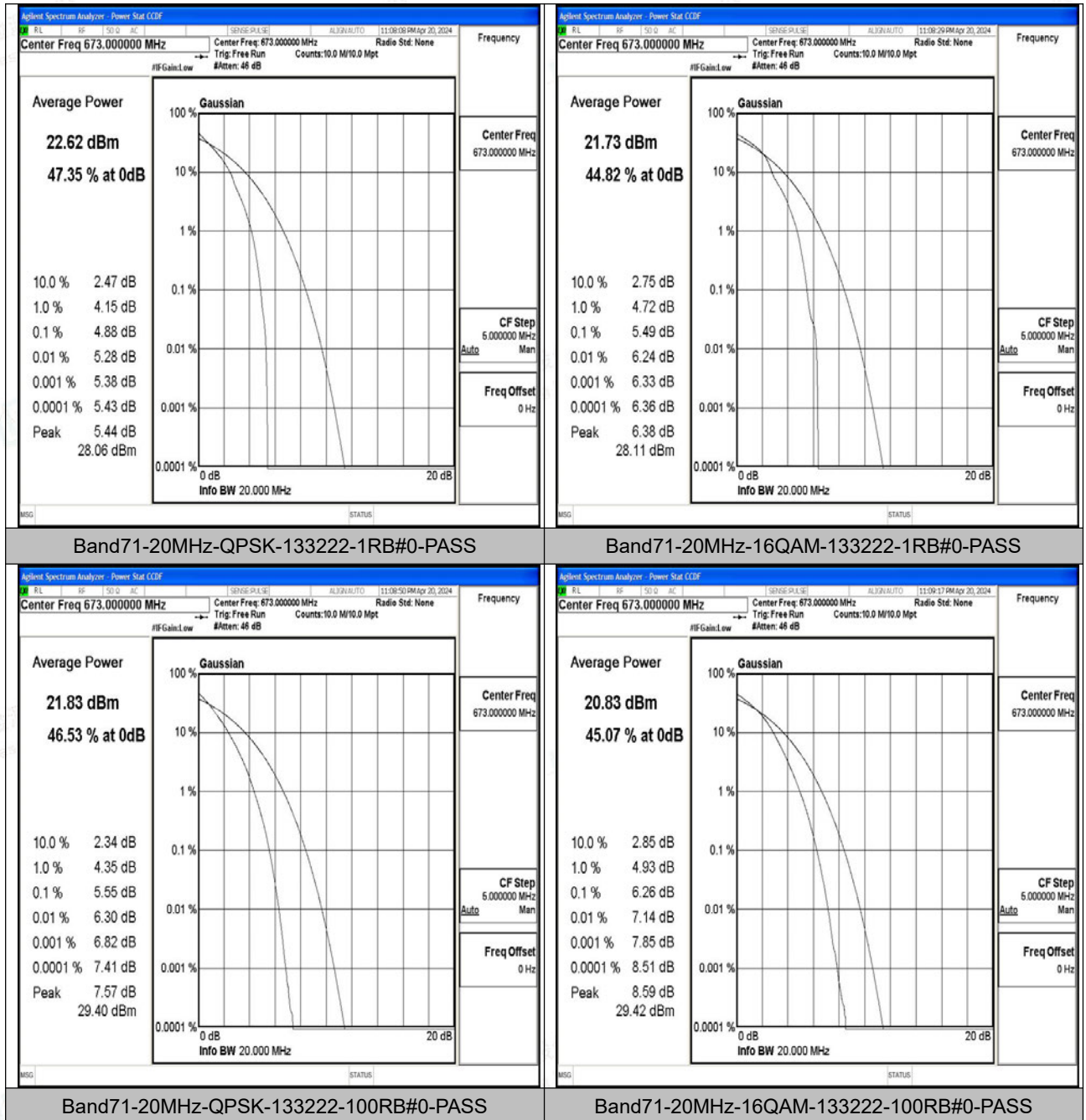


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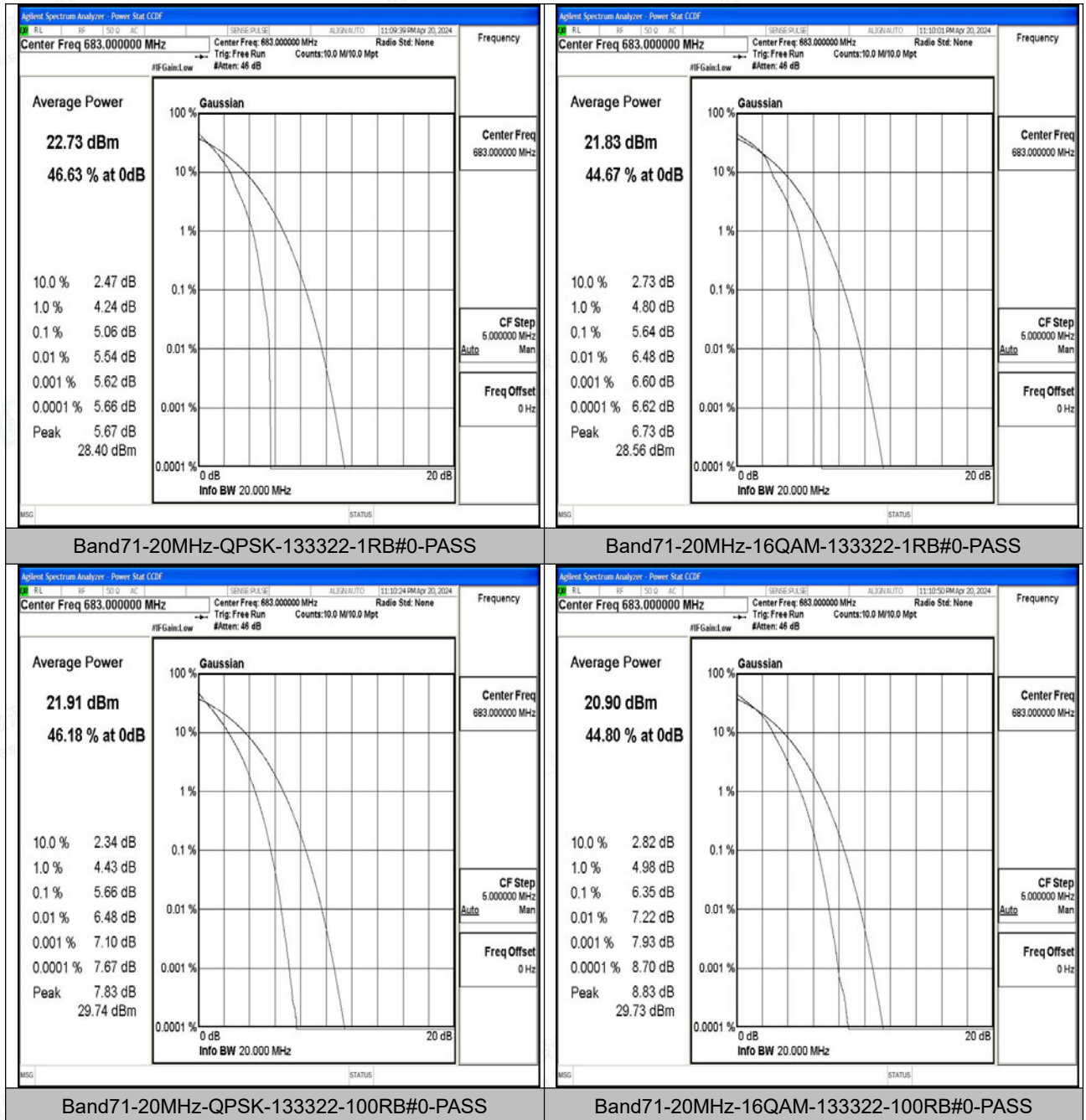


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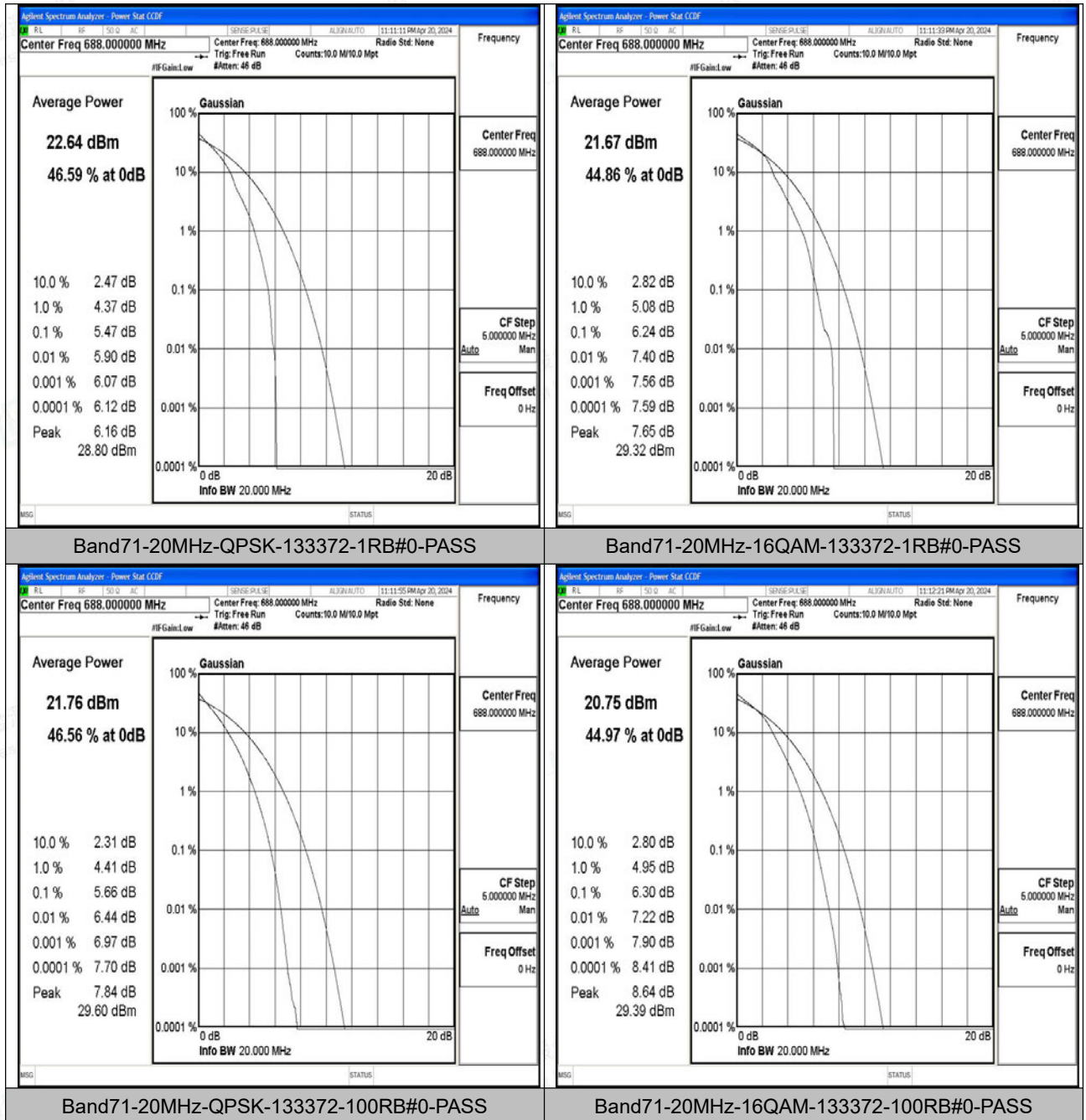


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N.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5328	5.195	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5274	5.187	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5202	5.200	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5203	5.141	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5292	5.141	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5184	5.115	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.0228	10.38	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9943	10.07	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0194	10.14	PASS
Band71	10MHz	16QAM	133297	50RB#0	9.0279	10.07	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0159	10.13	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.0042	10.02	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.511	14.99	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.475	15.03	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.502	15.05	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.513	15.06	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.517	15.06	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.487	15.03	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.957	19.83	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.915	19.61	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.972	19.84	PASS
Band71	20MHz	16QAM	133322	100RB#0	18.028	19.74	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.992	19.93	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.931	19.76	PASS



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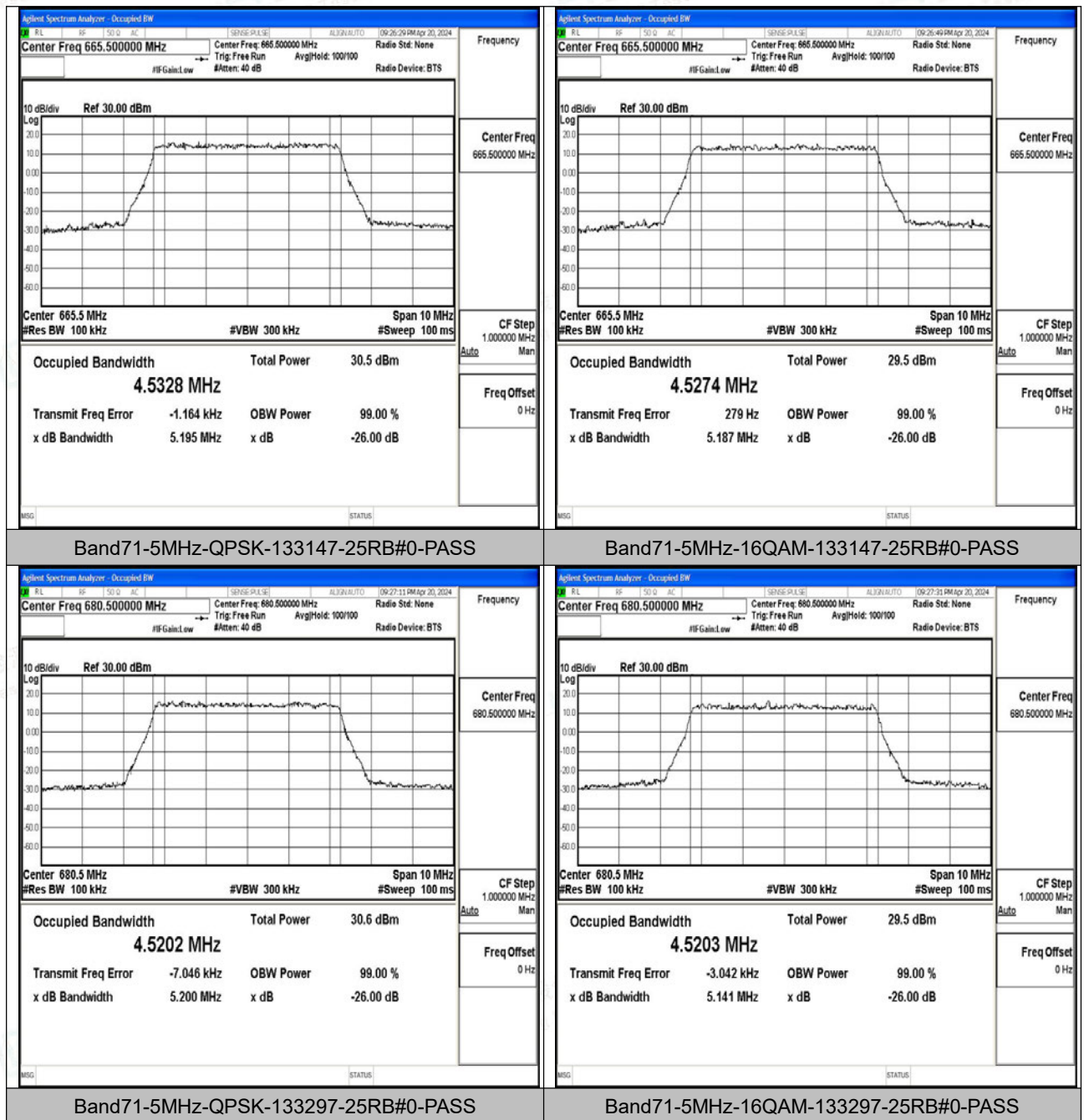
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Test Graphs

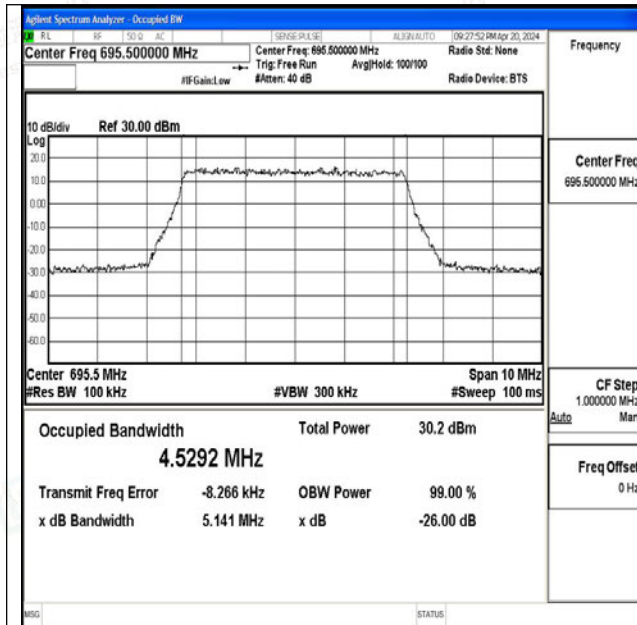


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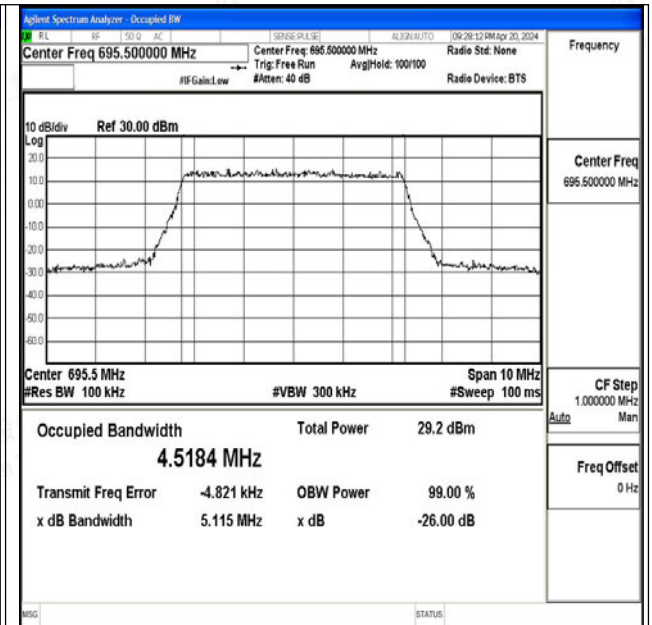
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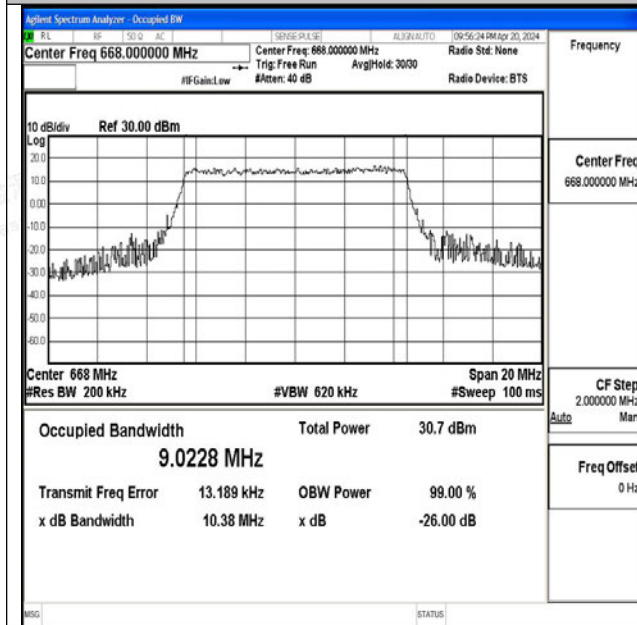
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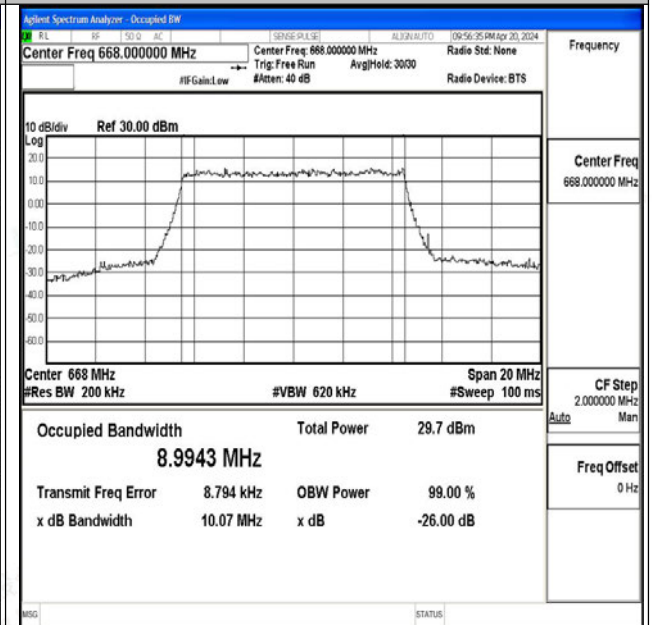
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Band71-5MHz-16QAM-133447-25RB#0-PASS



Band71-10MHz-QPSK-133172-50RB#0-PASS



Band71-10MHz-16QAM-133172-50RB#0-PASS

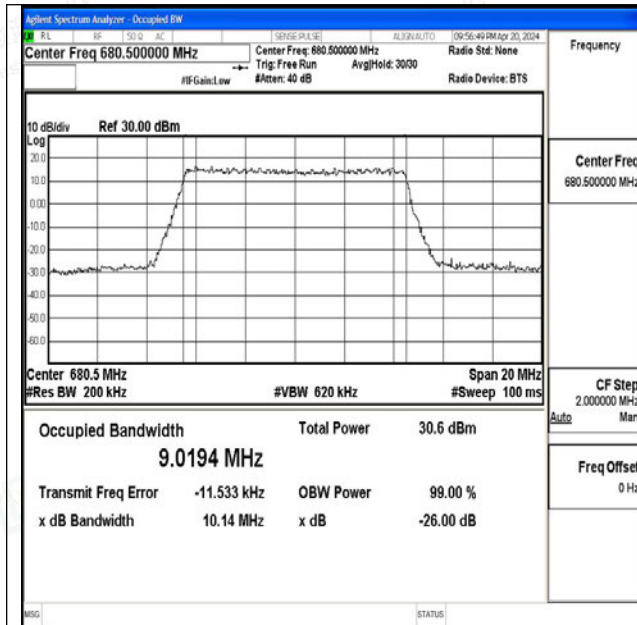


Shenzhen LCS Compliance Testing Laboratory Ltd.

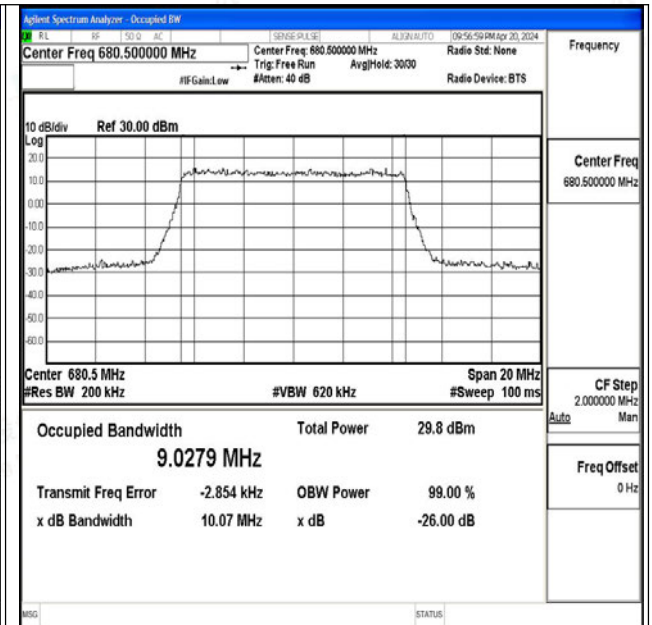
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

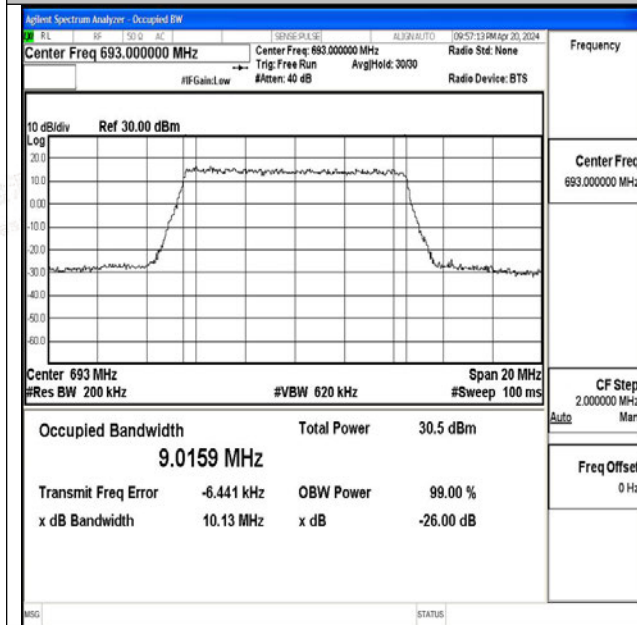
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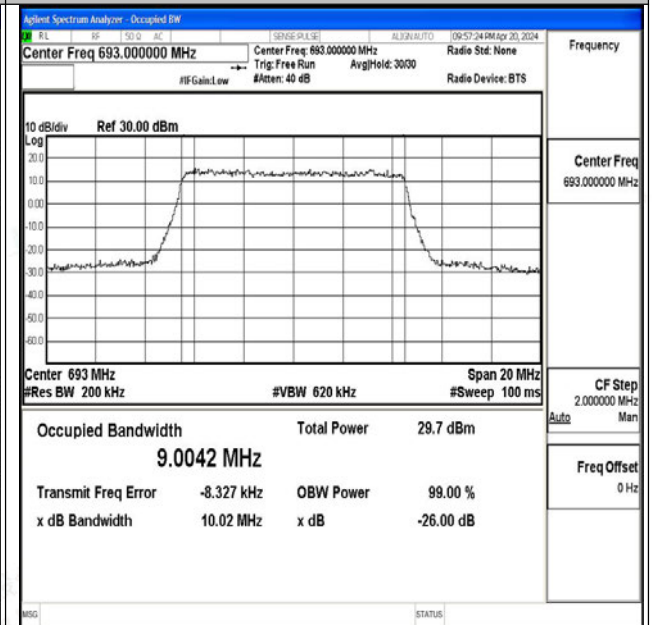
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Band71-10MHz-16QAM-133297-50RB#0-PASS



Band71-10MHz-QPSK-133422-50RB#0-PASS



Band71-10MHz-16QAM-133422-50RB#0-PASS

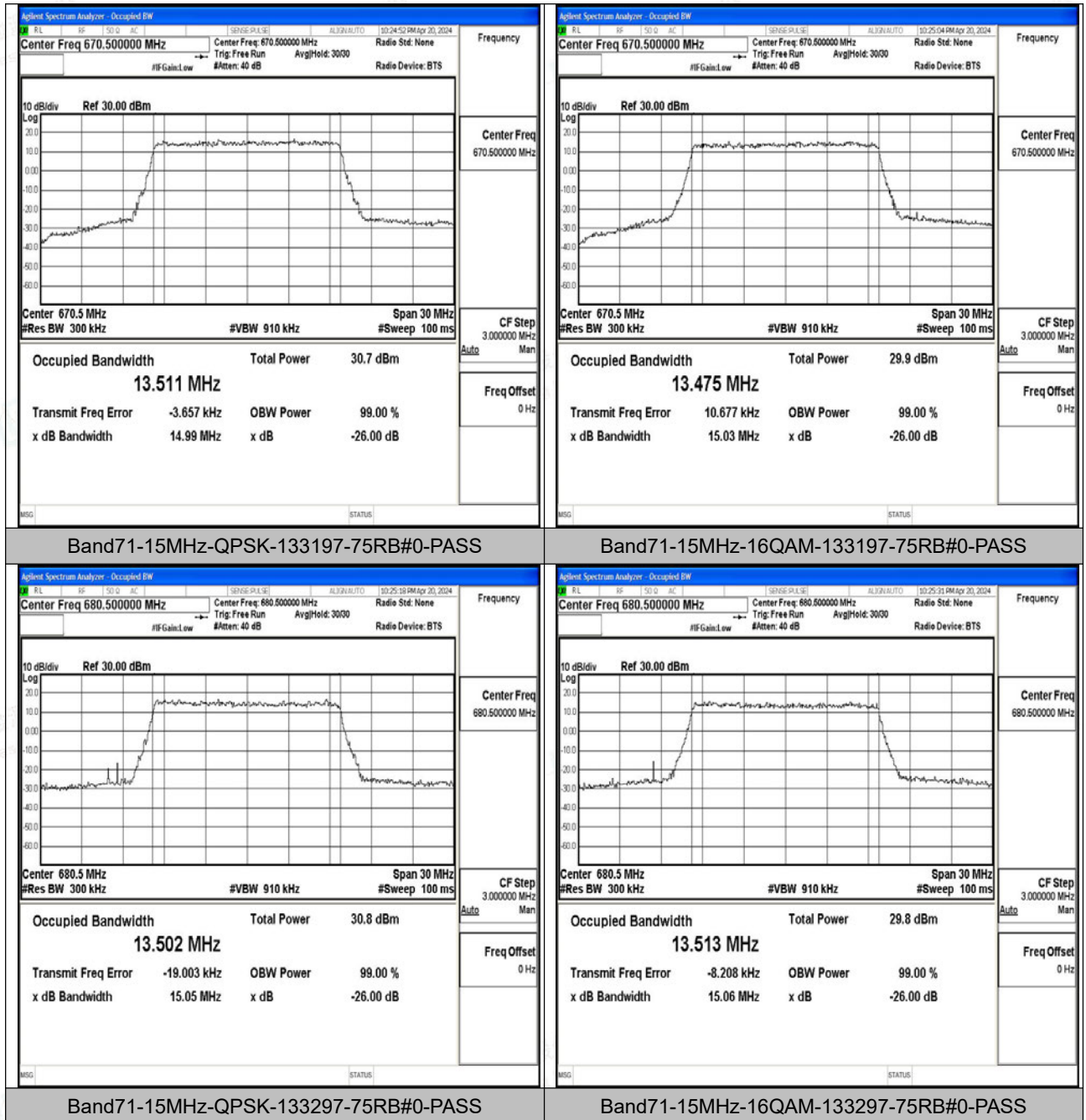


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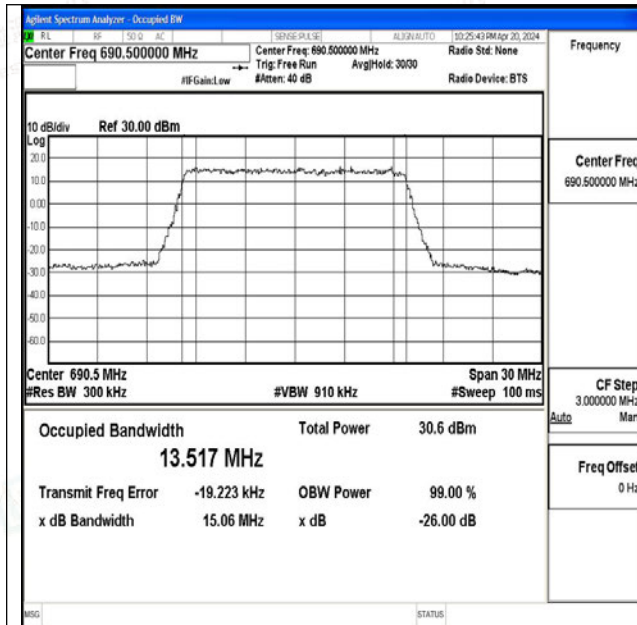


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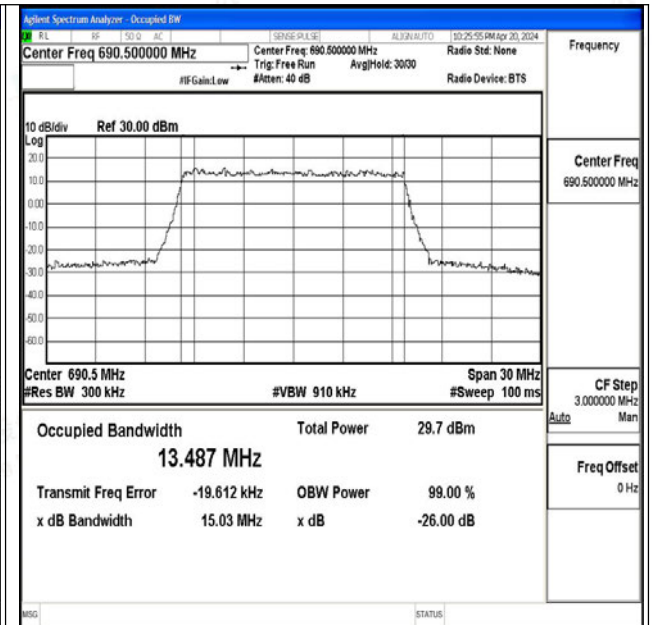
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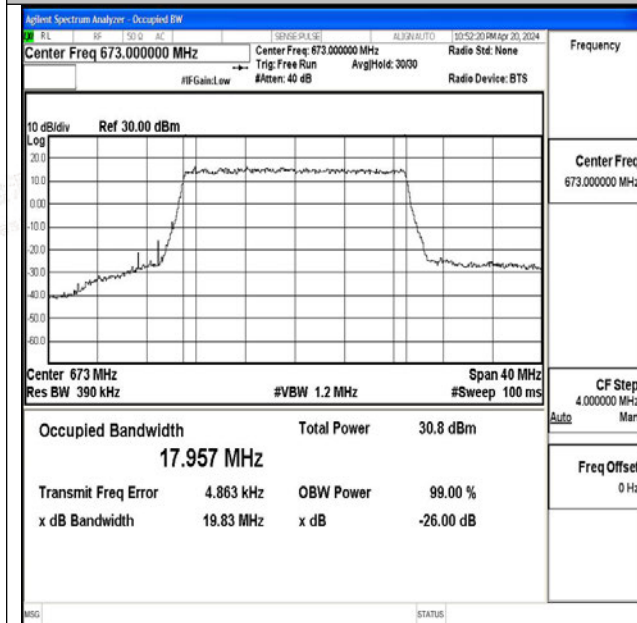
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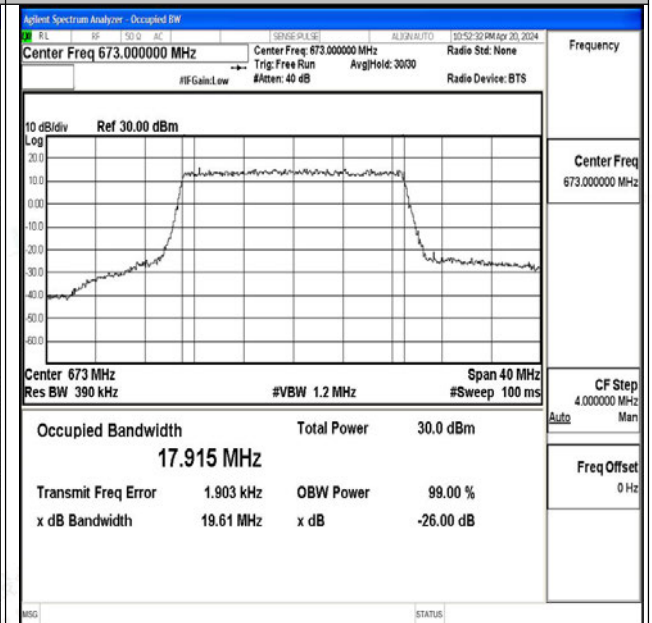
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Band71-15MHz-16QAM-133397-75RB#0-PASS



Band71-20MHz-QPSK-133222-100RB#0-PASS



Band71-20MHz-16QAM-133222-100RB#0-PASS

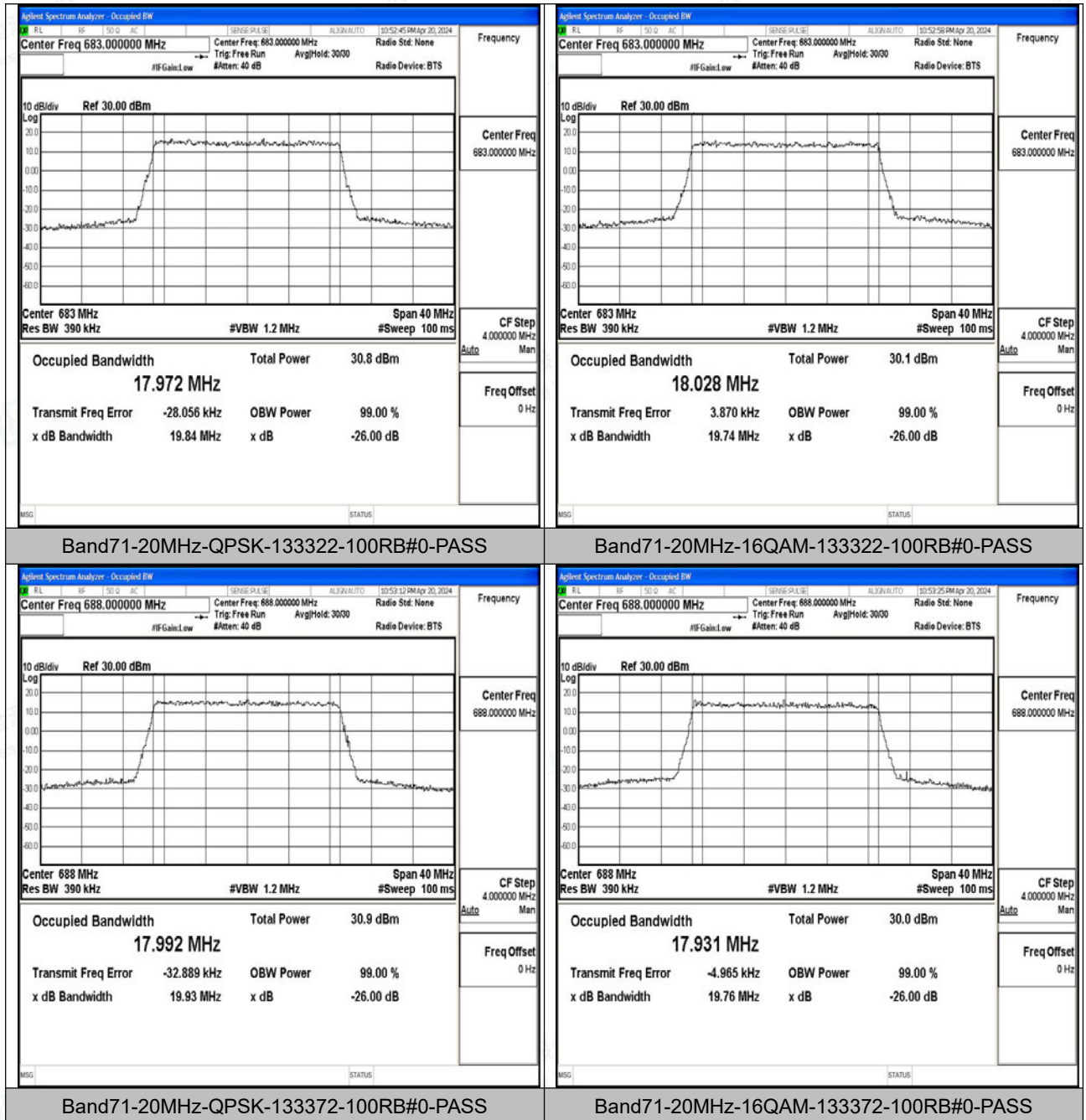


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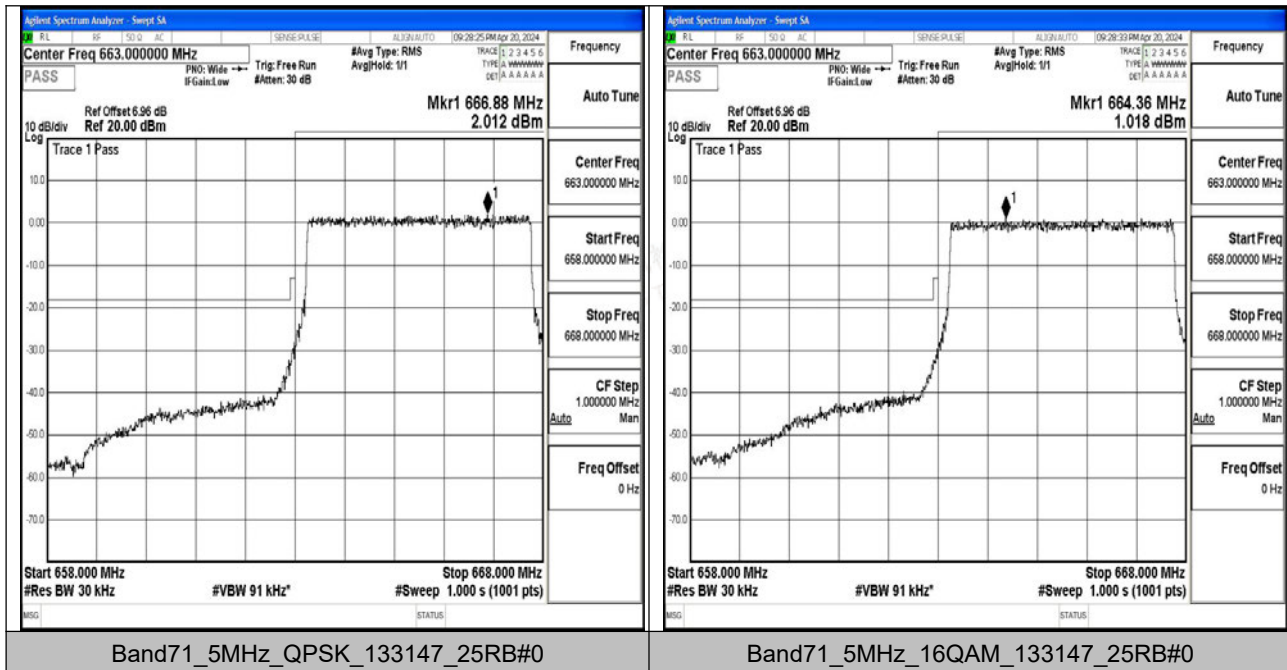


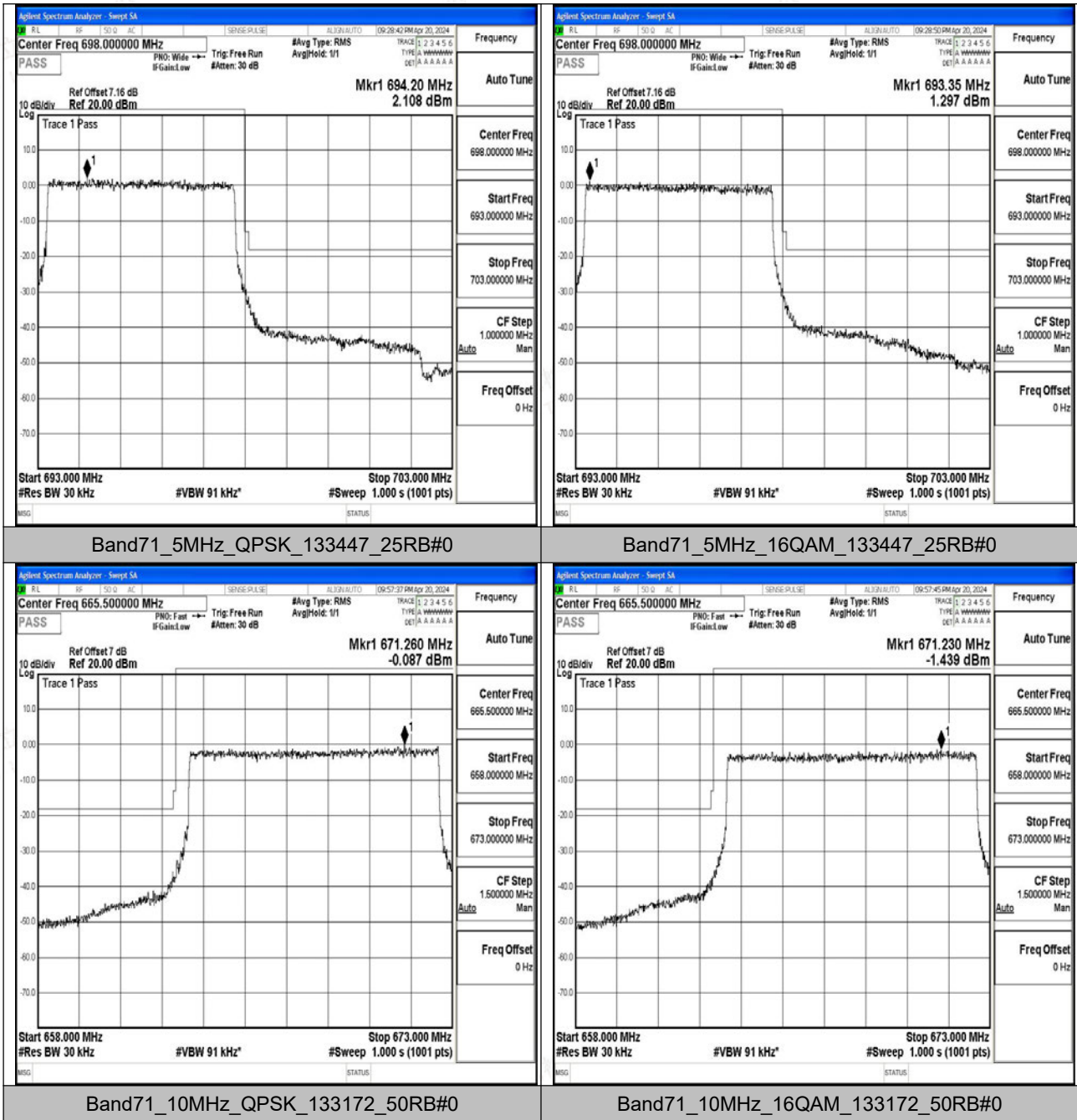
N.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	-32.35	PASS
Band71	5MHz	16QAM	133147	25RB#0	-33.45	PASS
Band71	5MHz	QPSK	133447	25RB#0	-33.51	PASS
Band71	5MHz	16QAM	133447	25RB#0	-33.98	PASS
Band71	10MHz	QPSK	133172	50RB#0	-35.73	PASS
Band71	10MHz	16QAM	133172	50RB#0	-38.47	PASS
Band71	10MHz	QPSK	133422	50RB#0	-39.44	PASS
Band71	10MHz	16QAM	133422	50RB#0	-40.14	PASS
Band71	15MHz	QPSK	133197	75RB#0	-40.92	PASS
Band71	15MHz	16QAM	133197	75RB#0	-41.43	PASS
Band71	15MHz	QPSK	133397	75RB#0	-41.75	PASS
Band71	15MHz	16QAM	133397	75RB#0	-40.65	PASS
Band71	20MHz	QPSK	133222	100RB#0	-44.78	PASS
Band71	20MHz	16QAM	133222	100RB#0	-43.65	PASS
Band71	20MHz	QPSK	133372	100RB#0	-43.81	PASS
Band71	20MHz	16QAM	133372	100RB#0	-43.45	PASS

Test Graphs



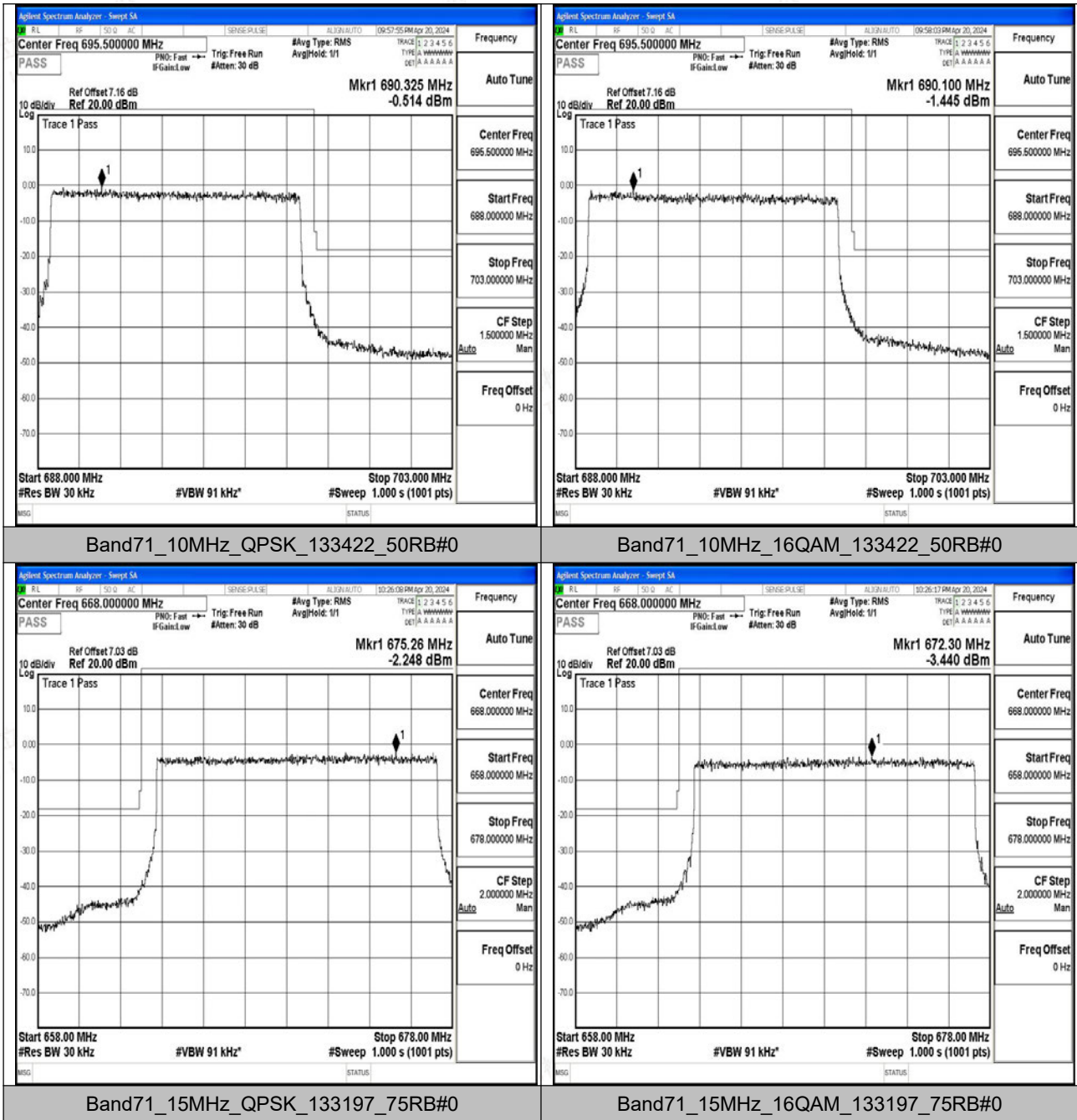


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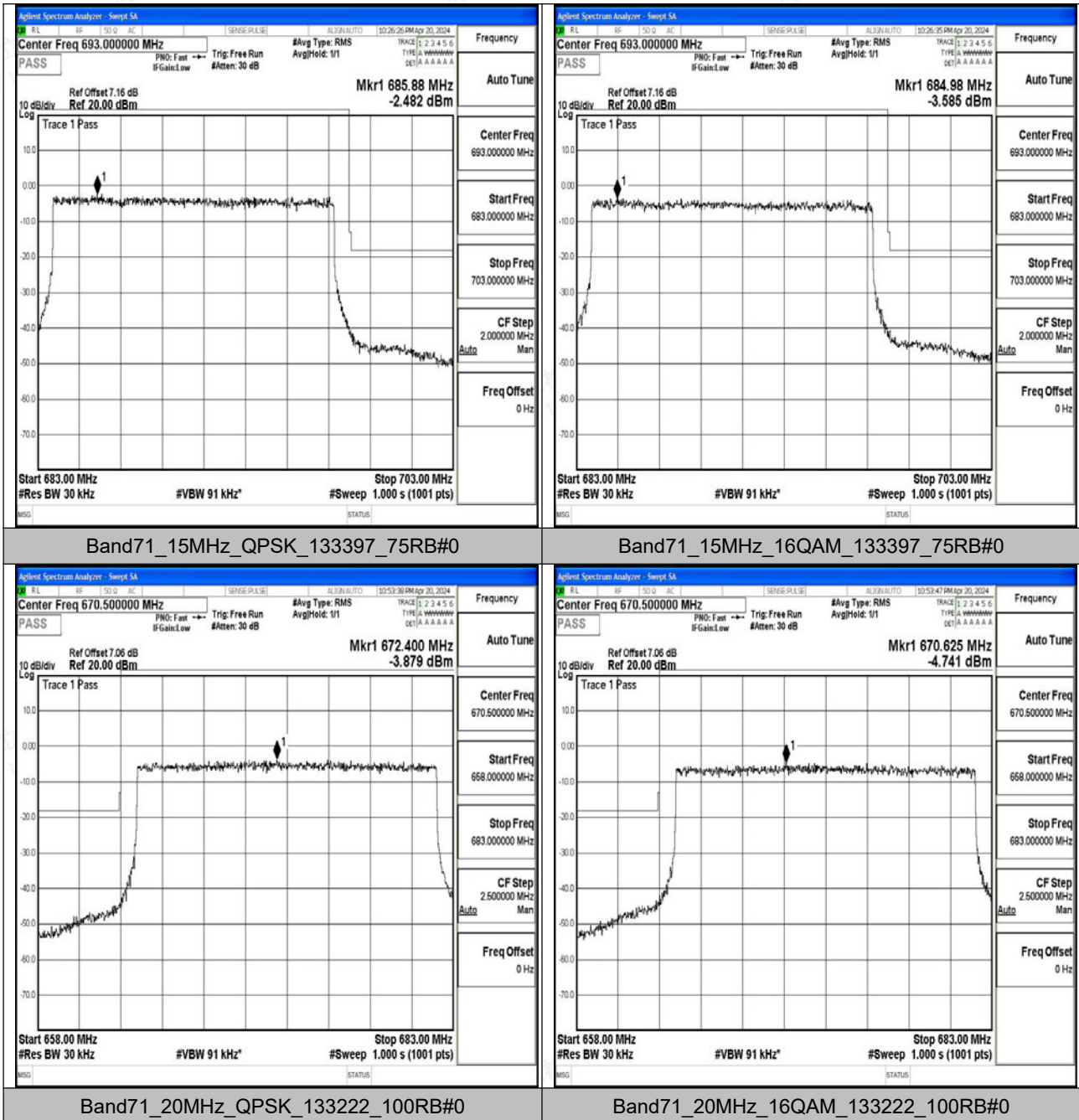


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