



Appendix B: Test Data for E-UTRA Band 4

Product Name: 4G Module

Test Model: Air795U

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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B.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	19.95	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	19.23	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	19.83	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	19.26	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	20.89	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.22	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.37	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.70	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.24	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.34	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.33	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.57	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.33	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.80	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.08	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.47	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.33	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.63	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.29	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.65	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.15	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.51	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.29	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.69	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.31	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.69	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.15	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.52	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.20	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.59	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.29	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.67	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.16	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.64	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.22	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.59	PASS



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B.2 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	4.38	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	4.96	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.81	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.38	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.28	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	4.93	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.37	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	4.97	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.74	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.38	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.22	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	4.91	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.90	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.41	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.08	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.66	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.73	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.29	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.98	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.57	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.10	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.69	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	4.71	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.32	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.28	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.72	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.33	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.79	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	4.93	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.39	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.06	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.71	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.06	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.66	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.74	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.31	13	PASS



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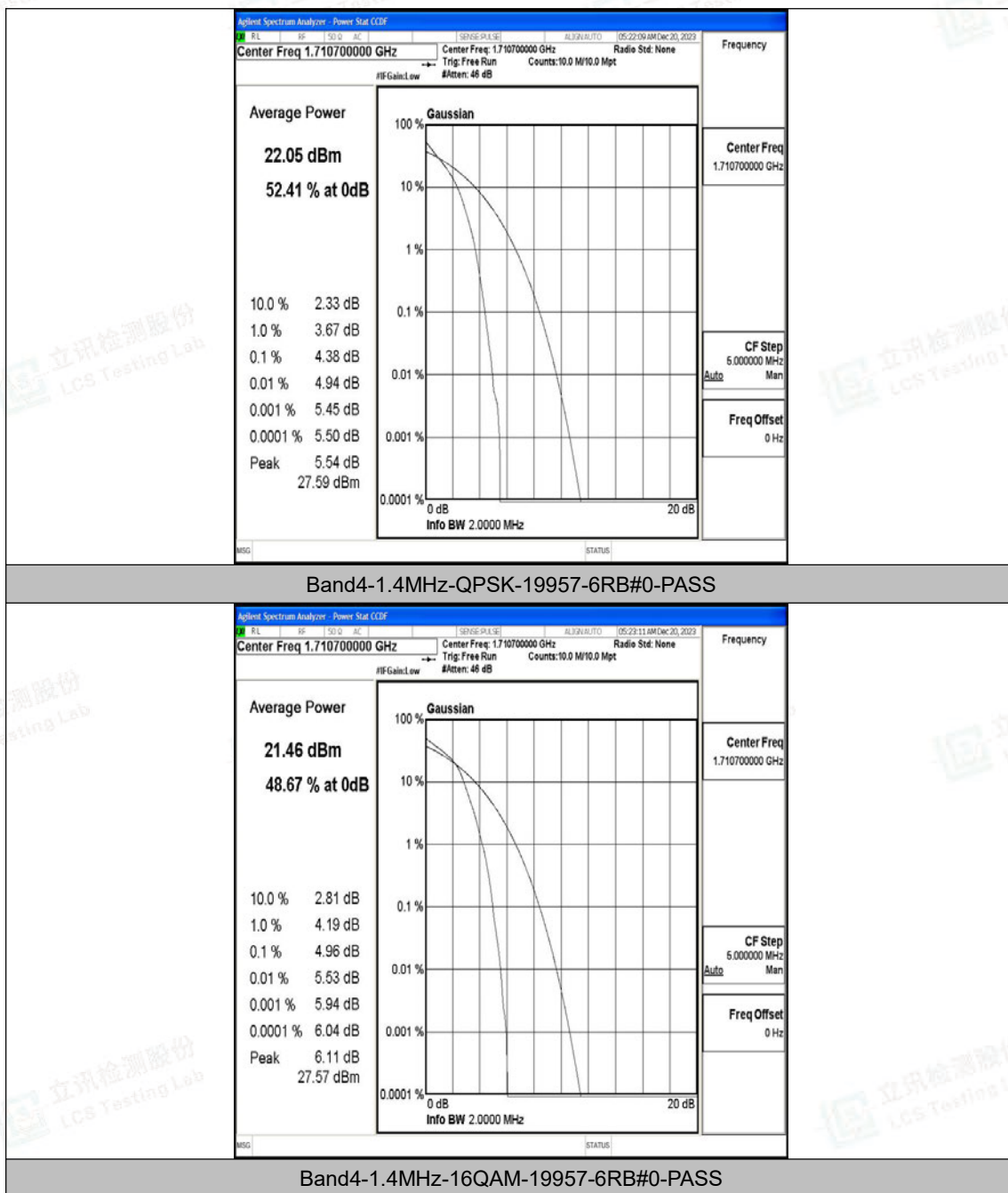
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Test Graphs

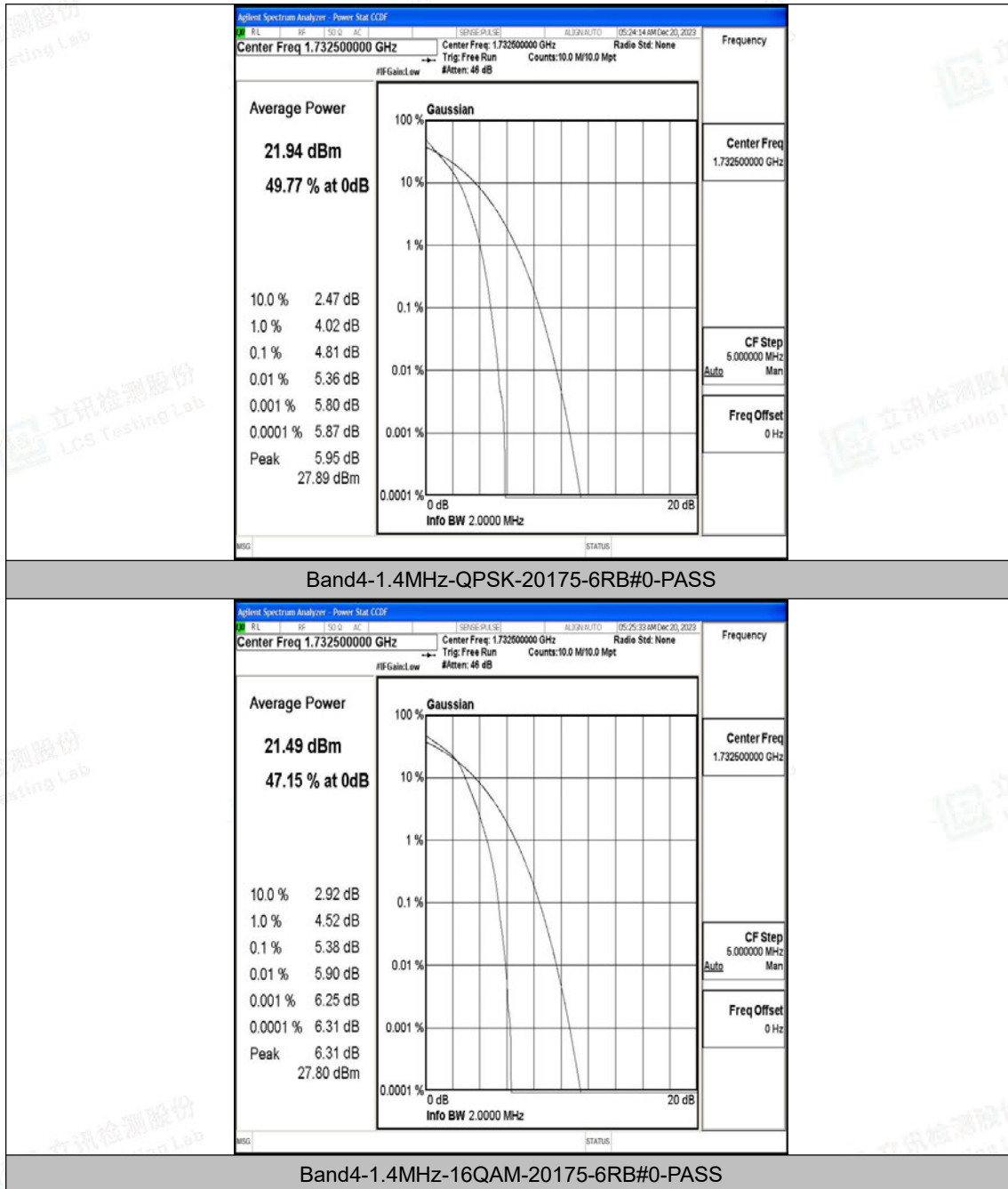


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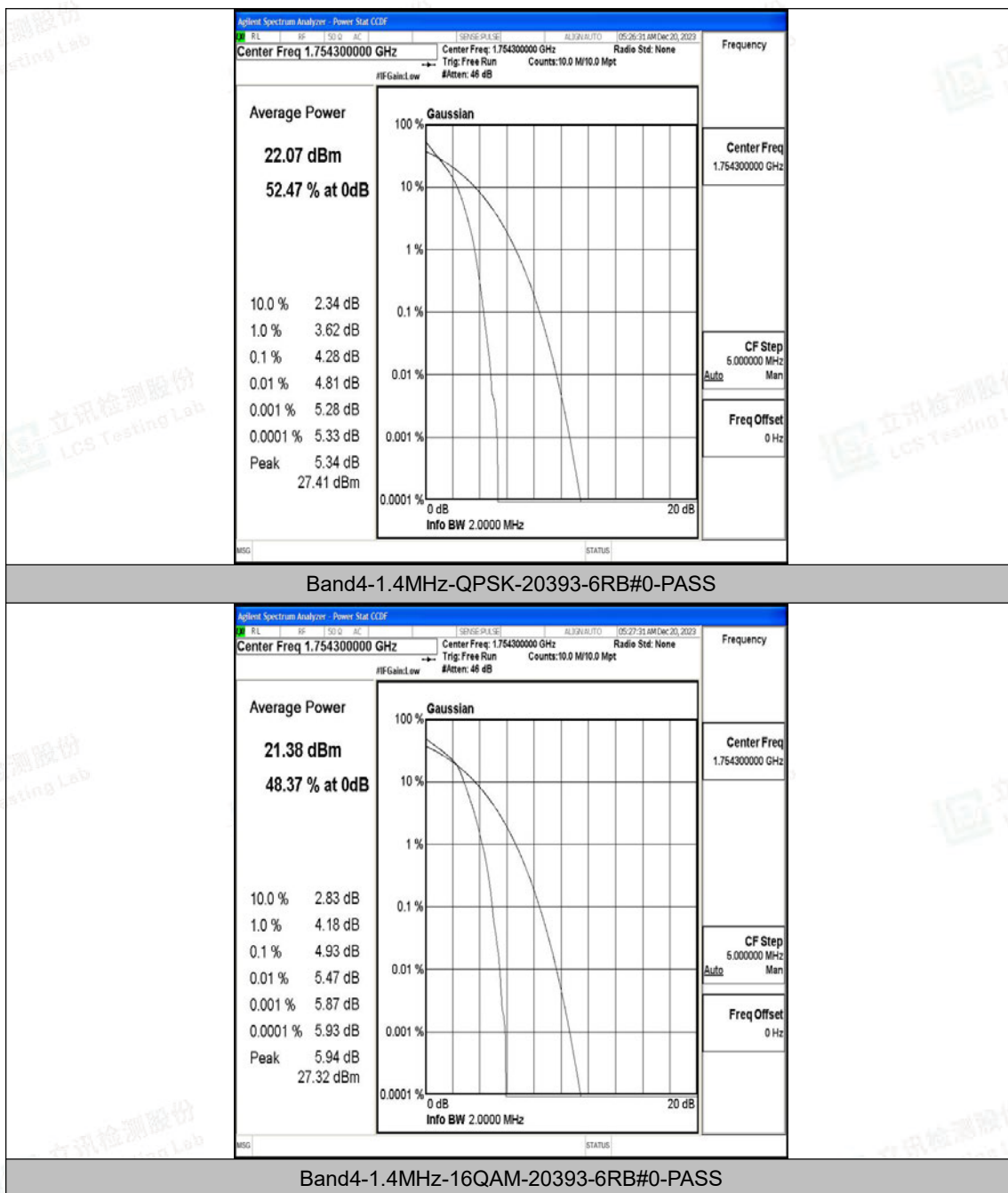


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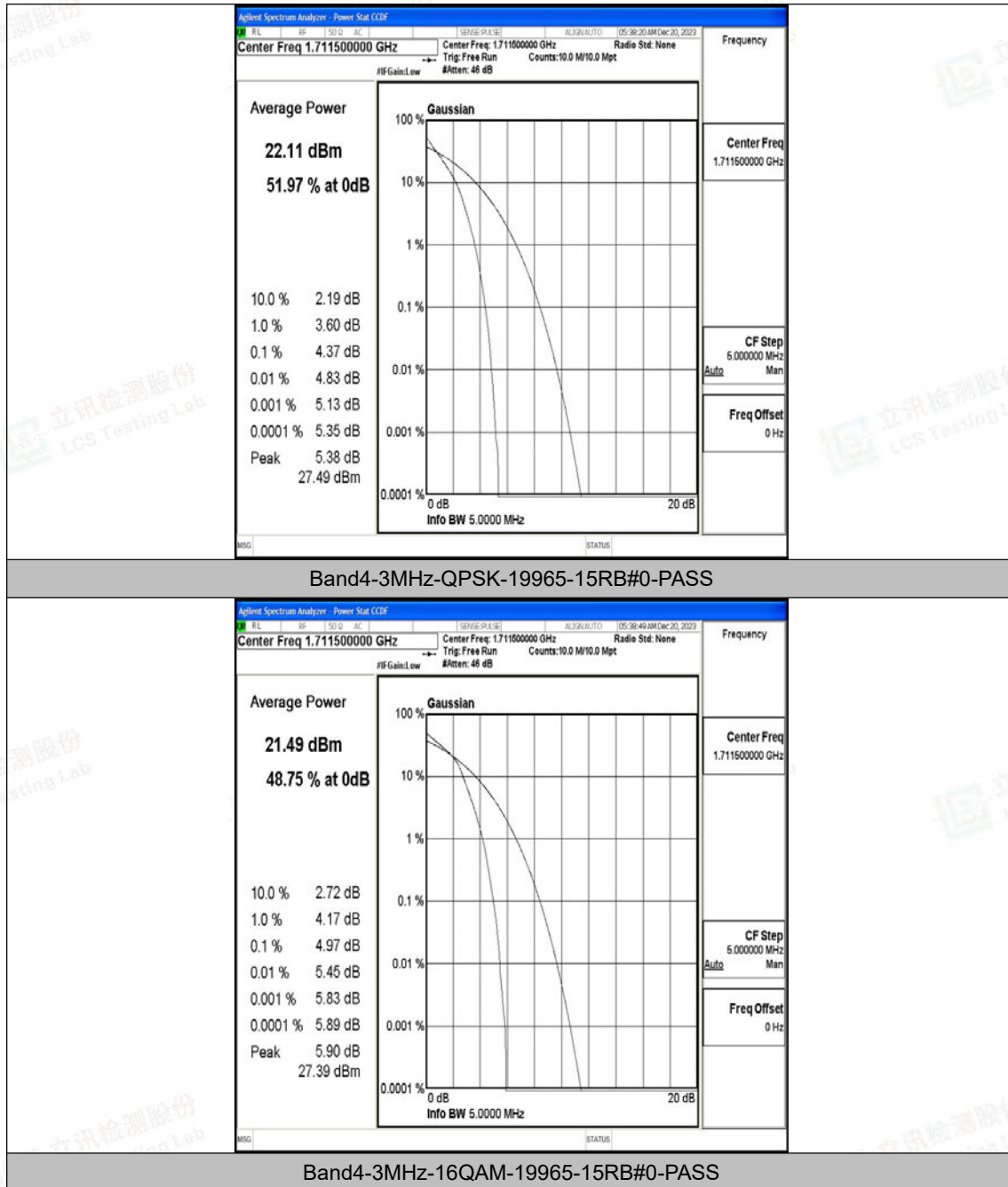


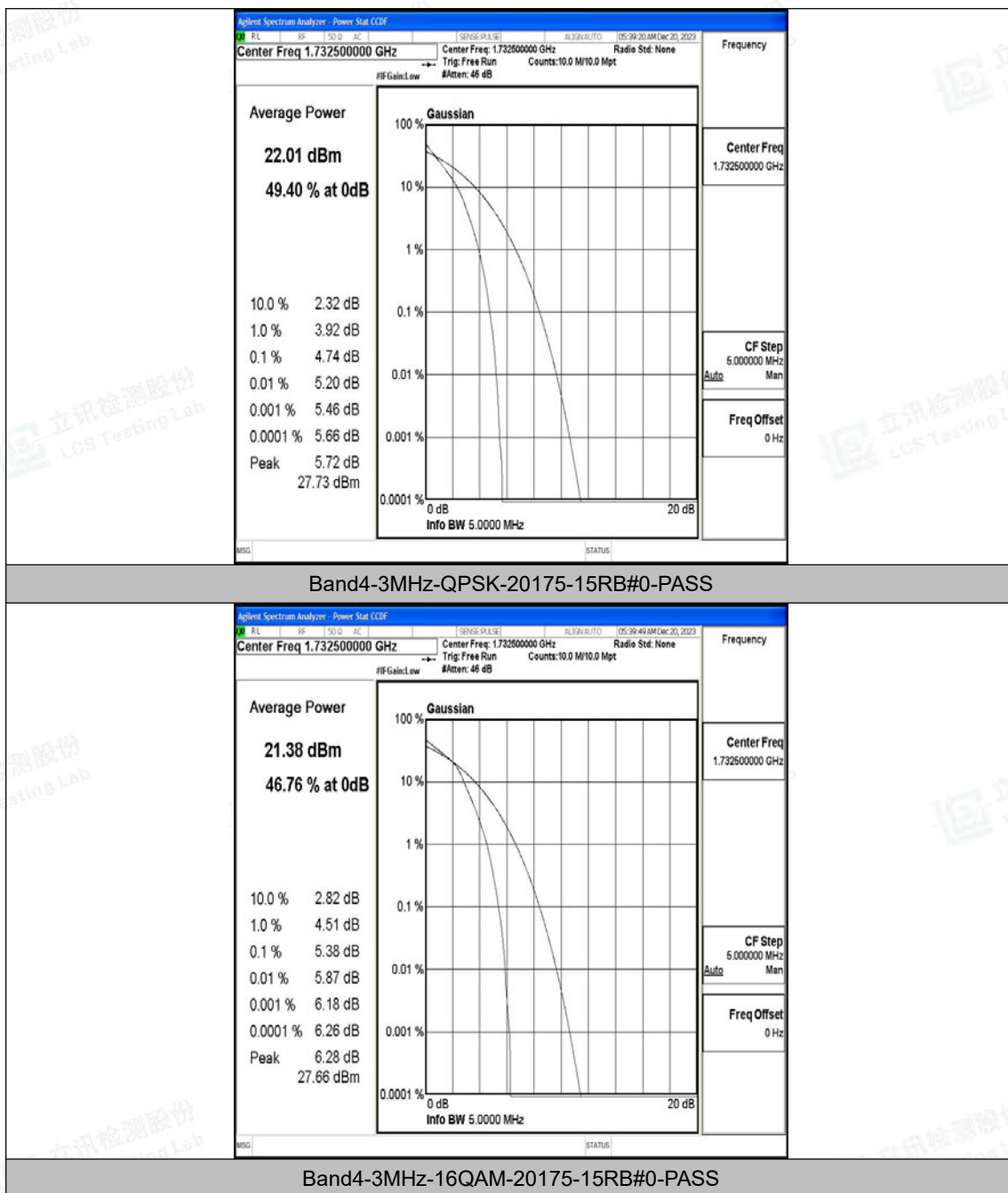
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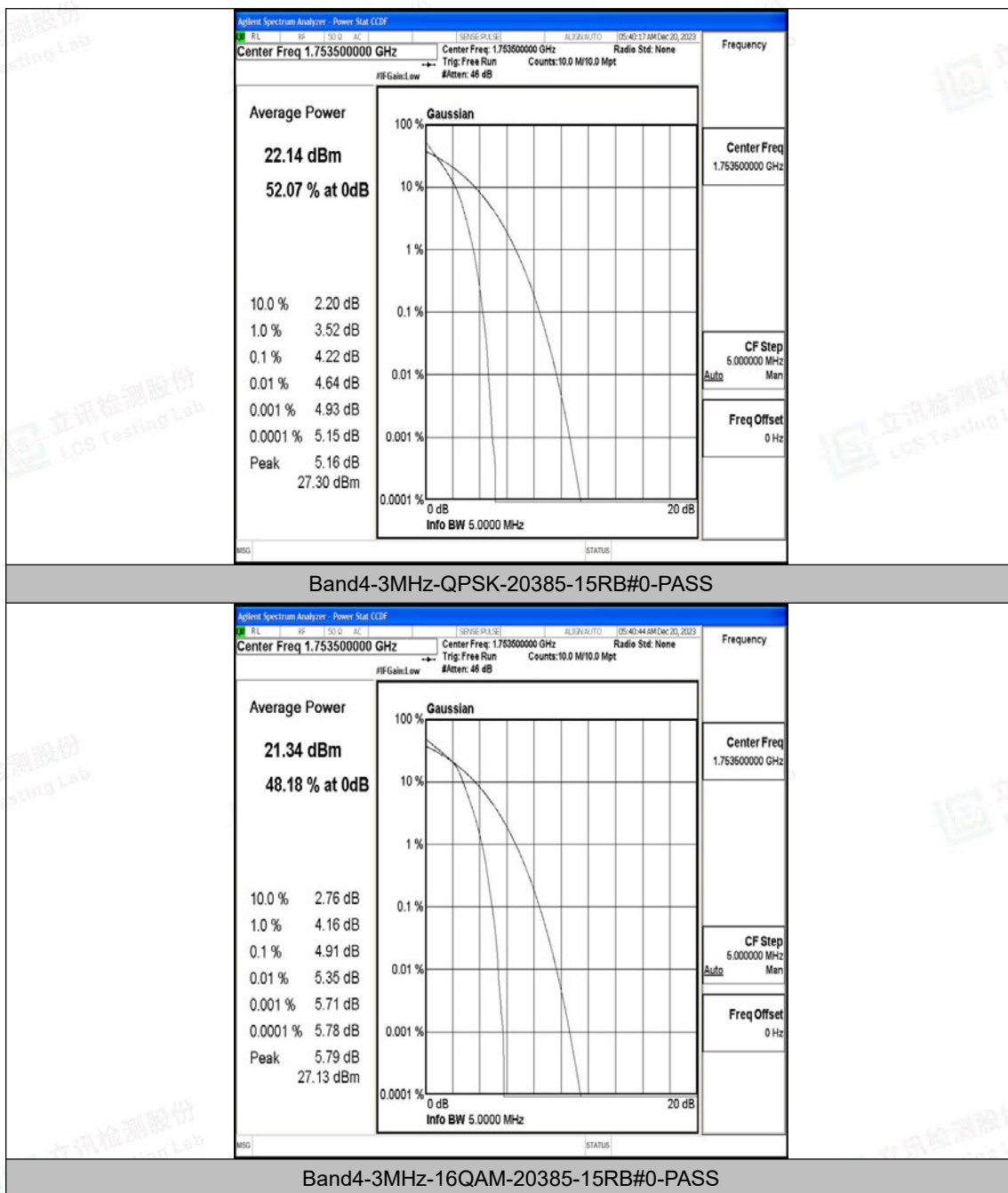


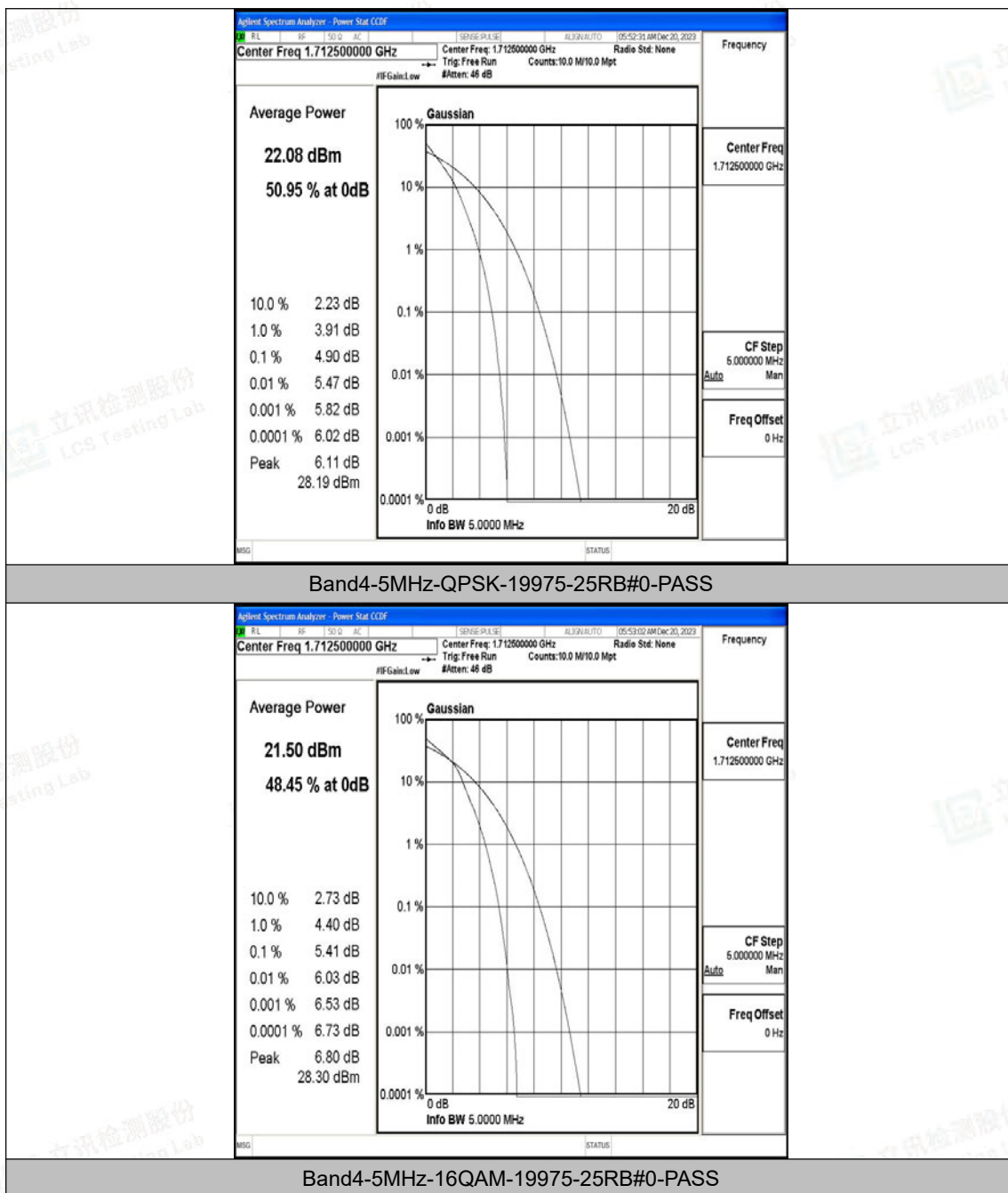
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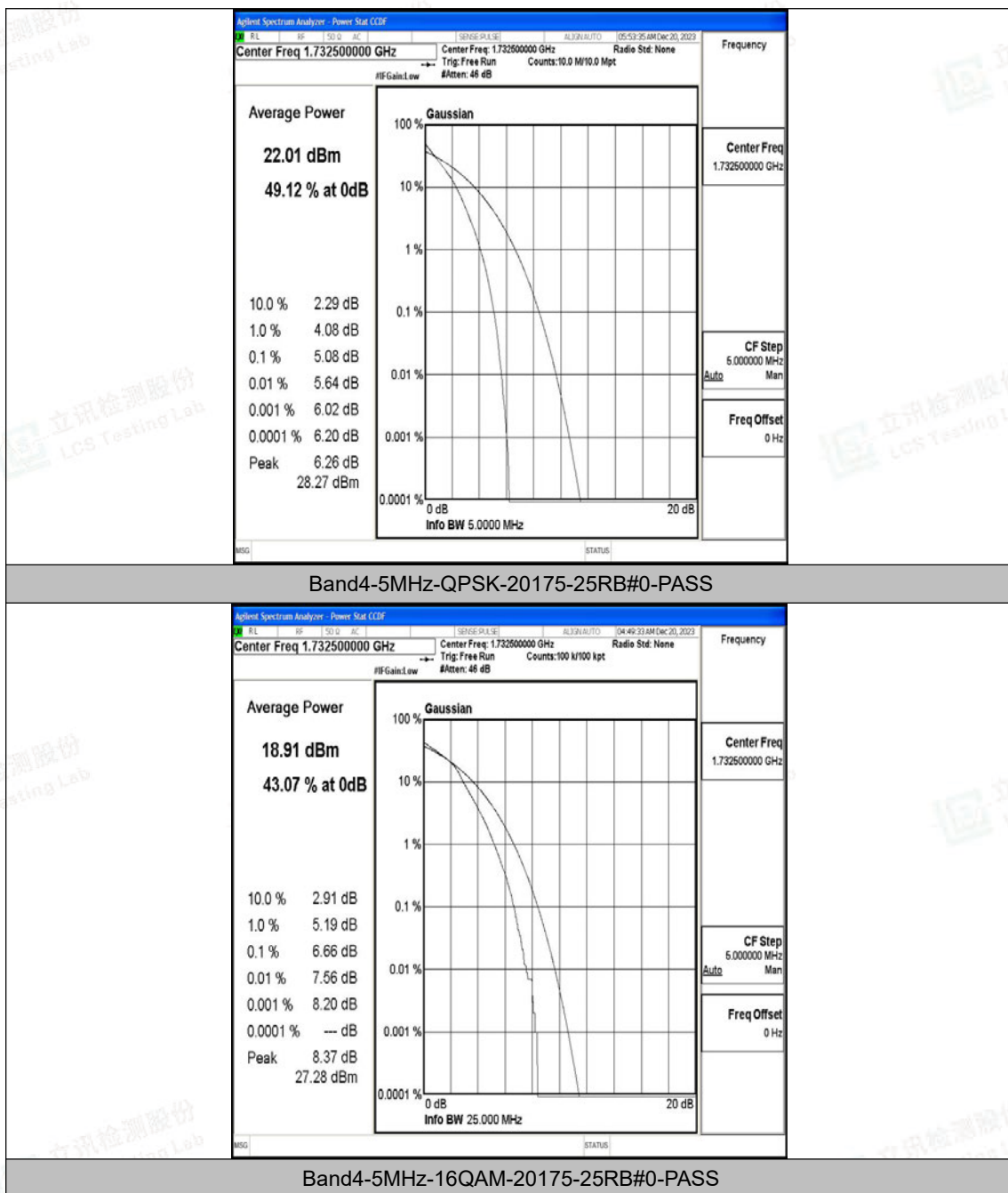


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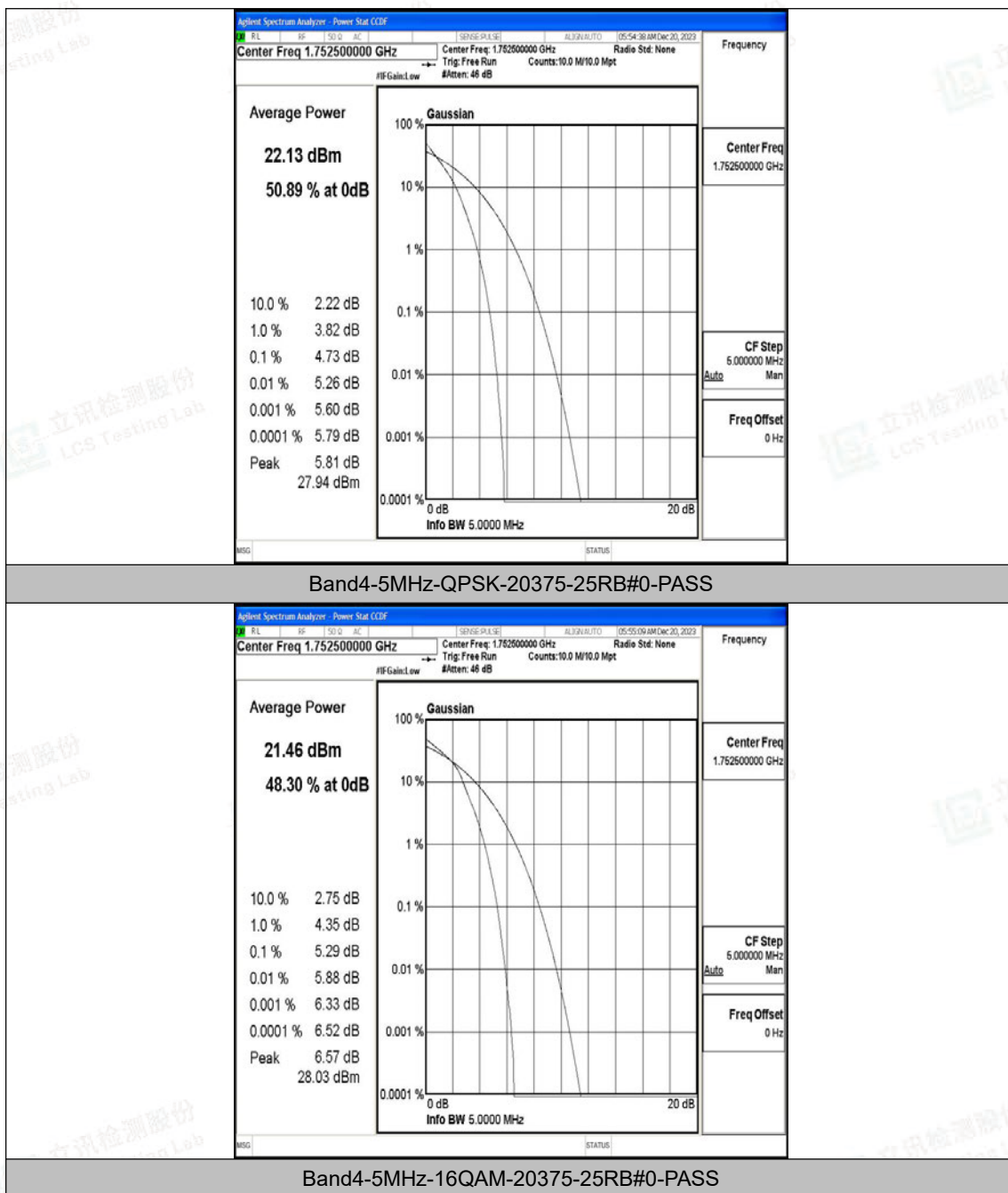


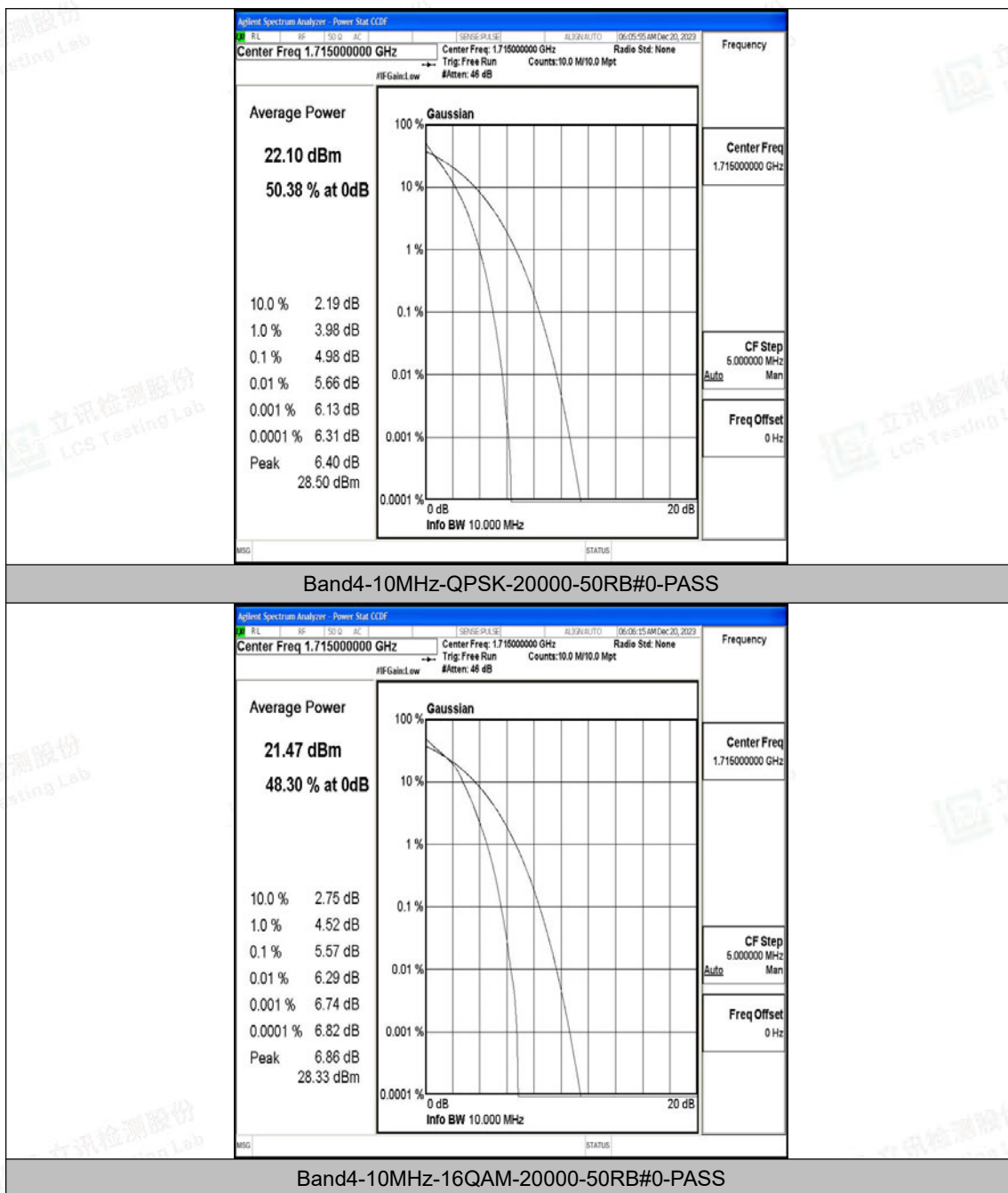
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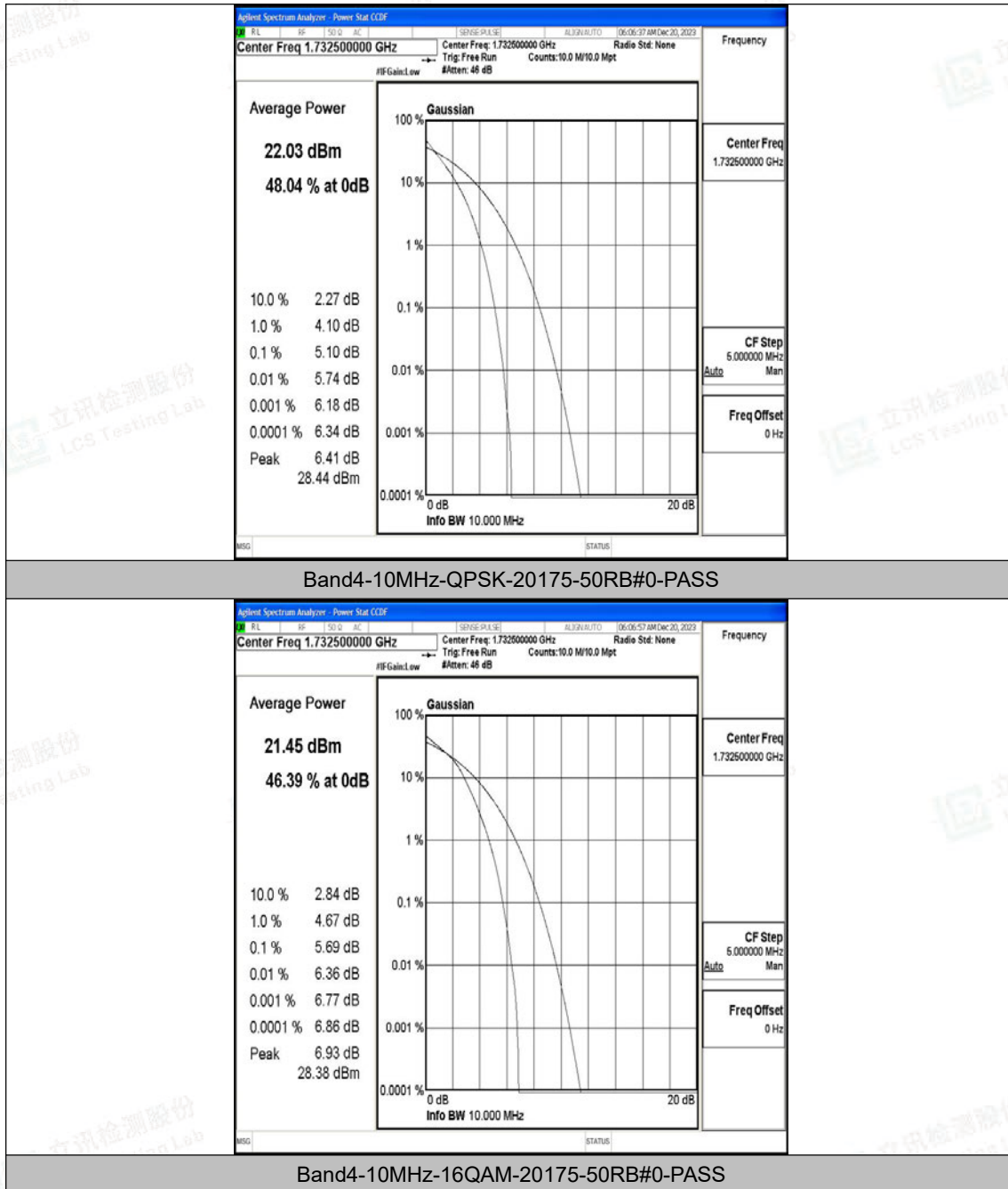


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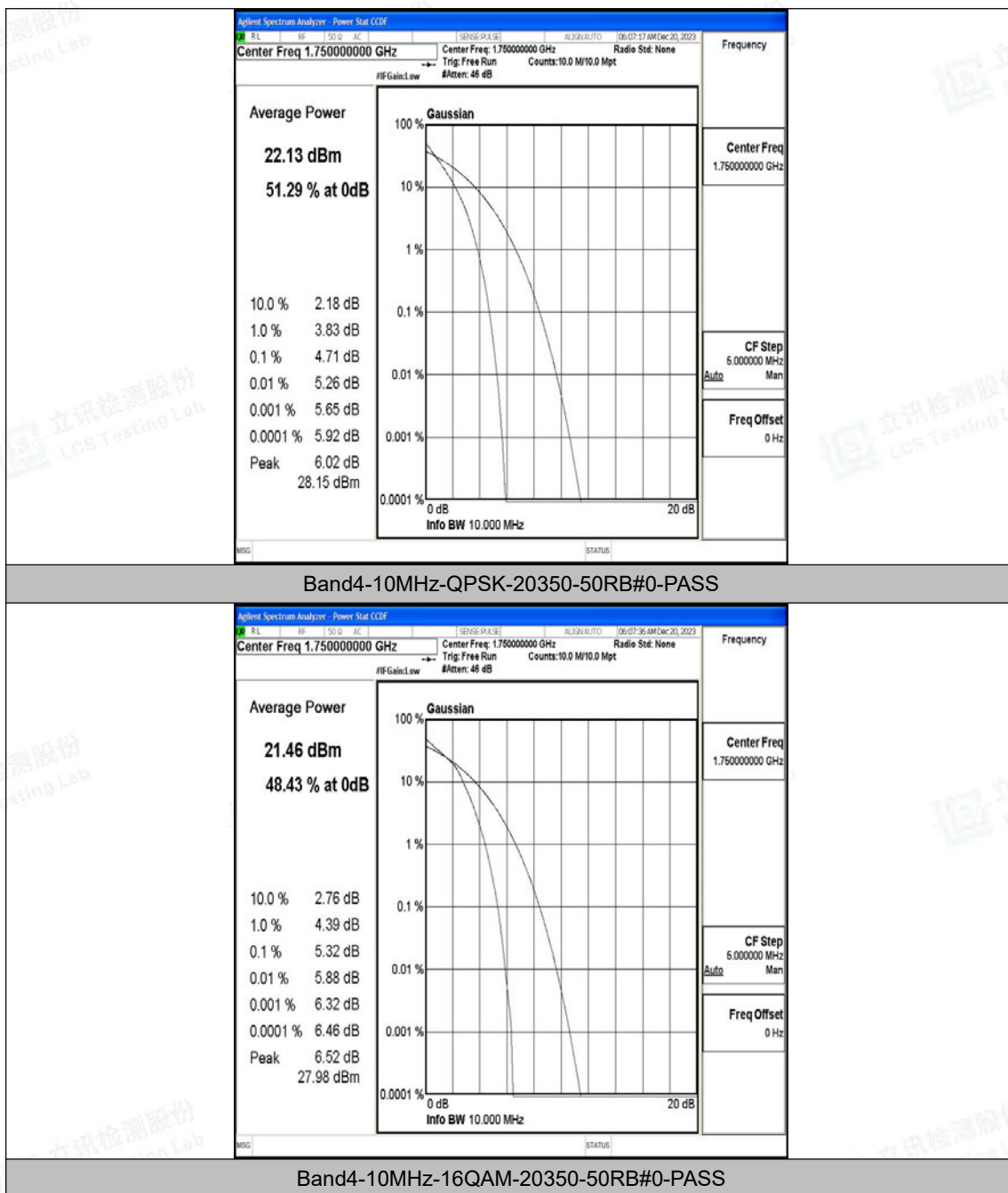


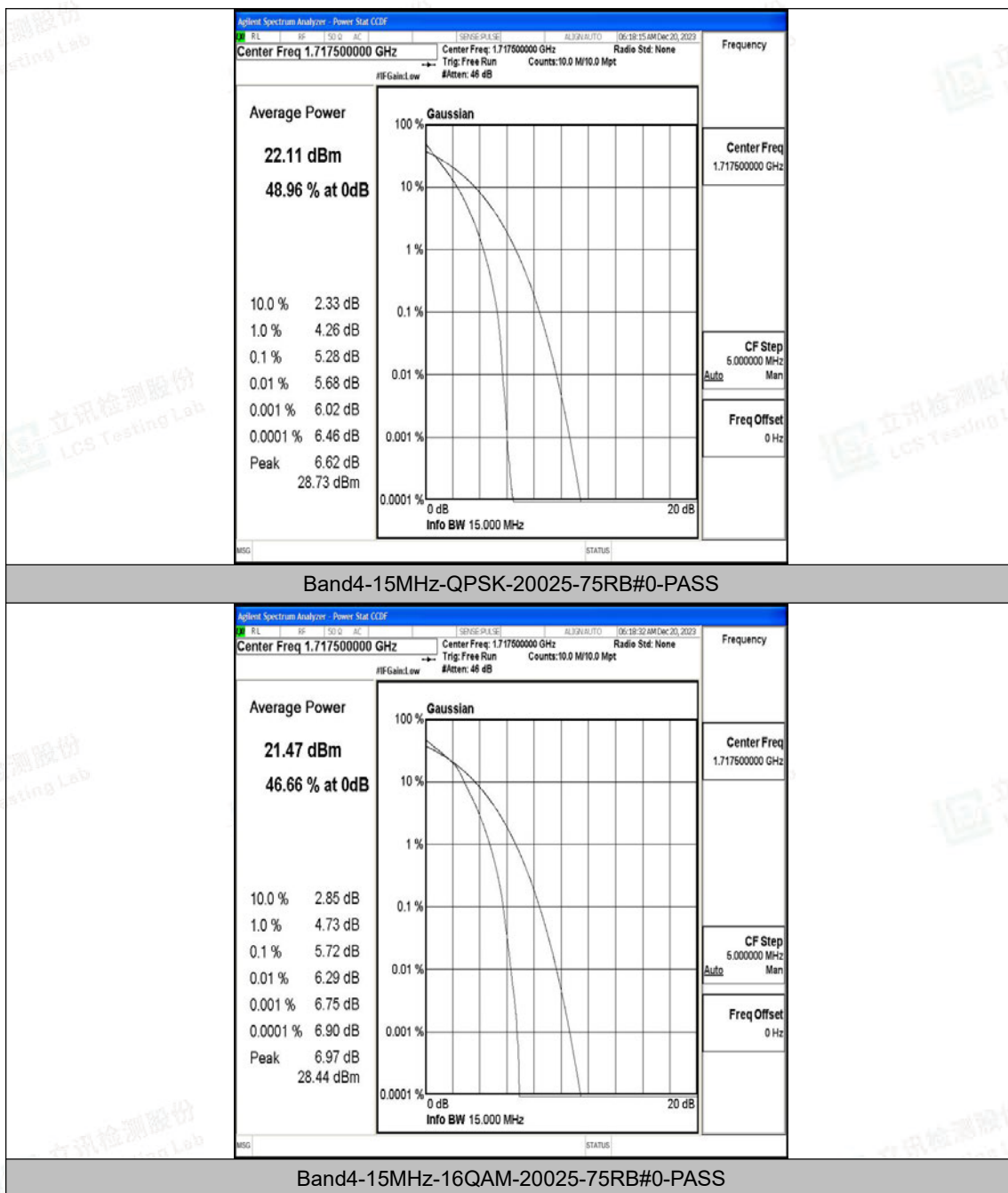
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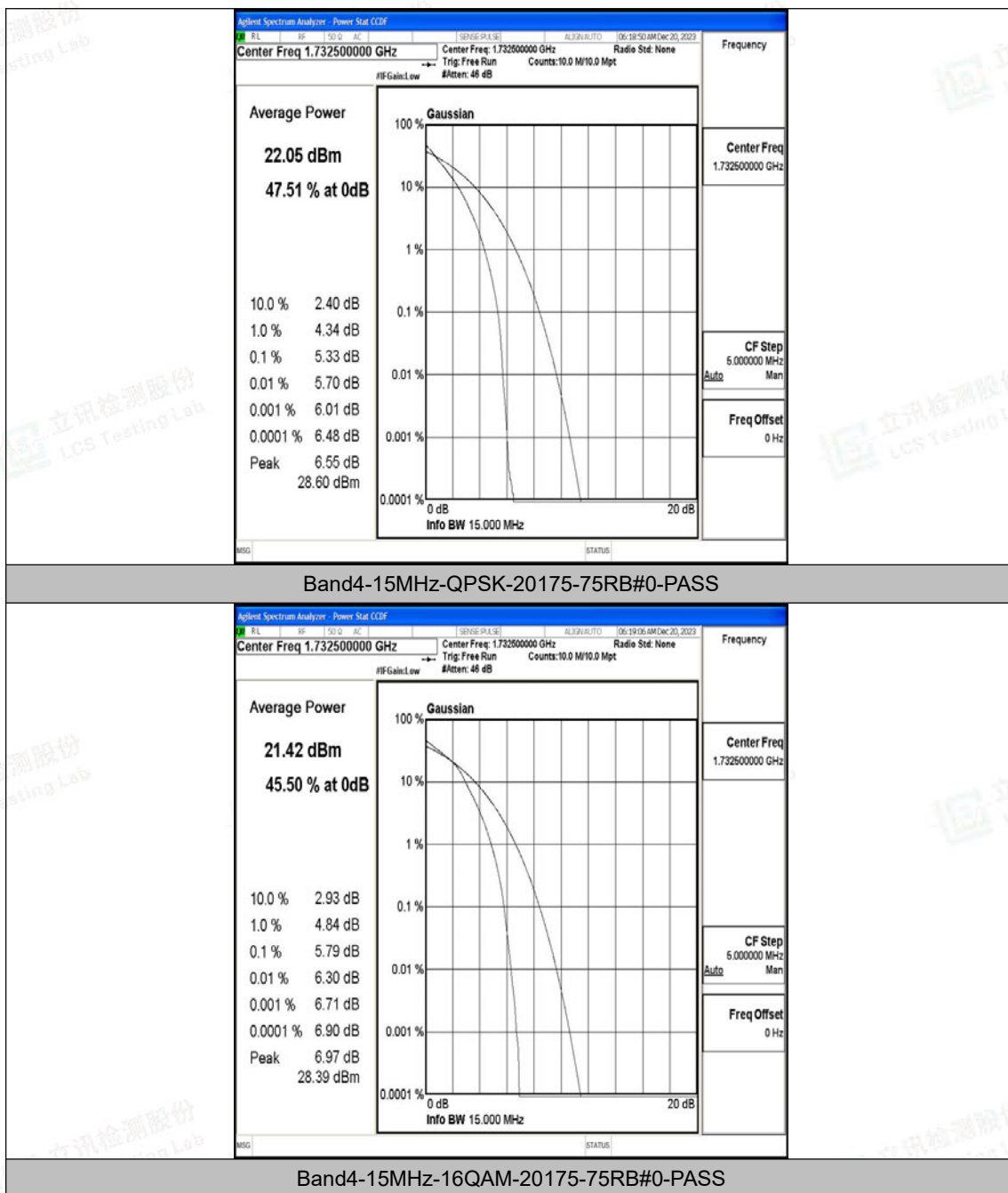


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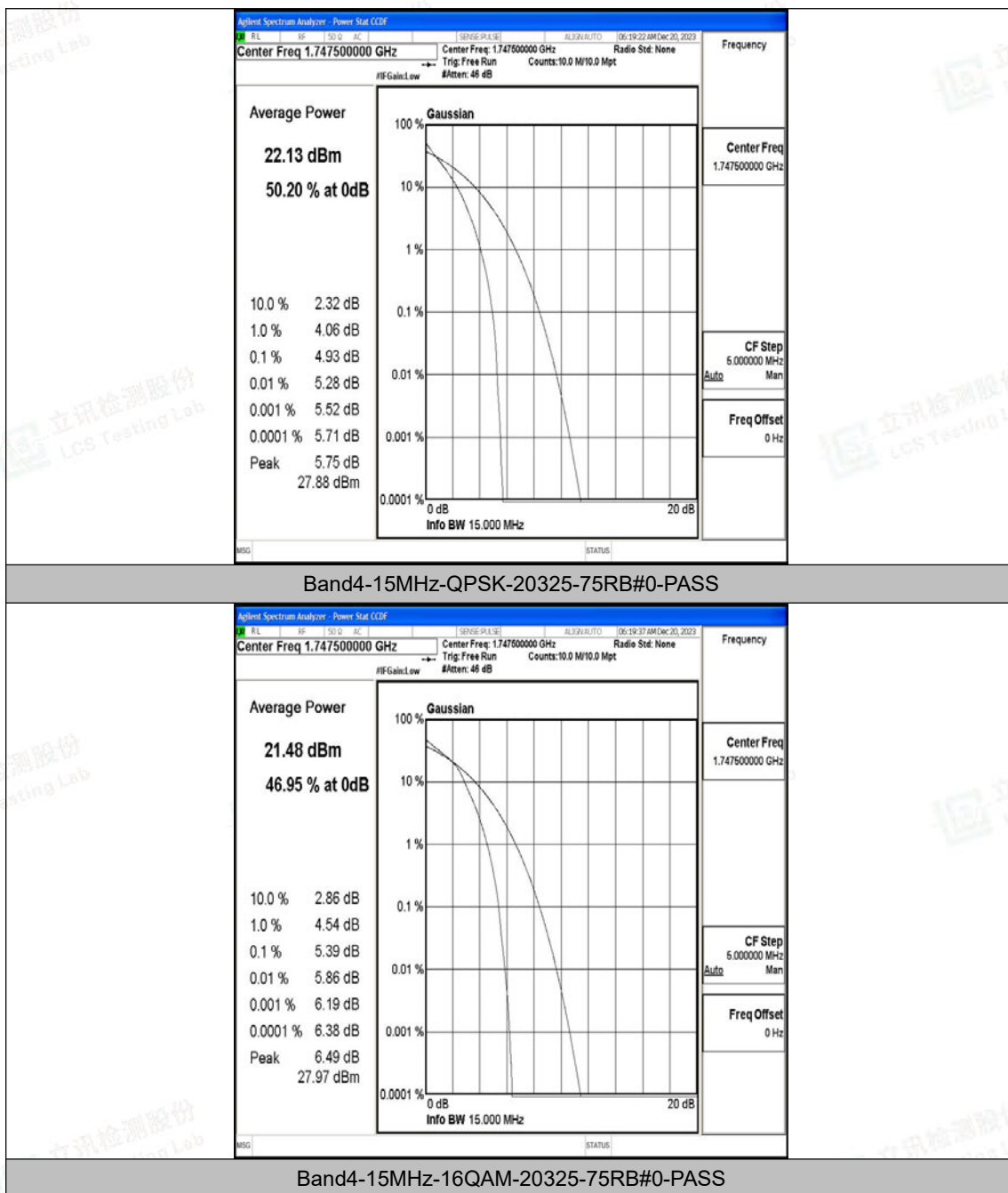


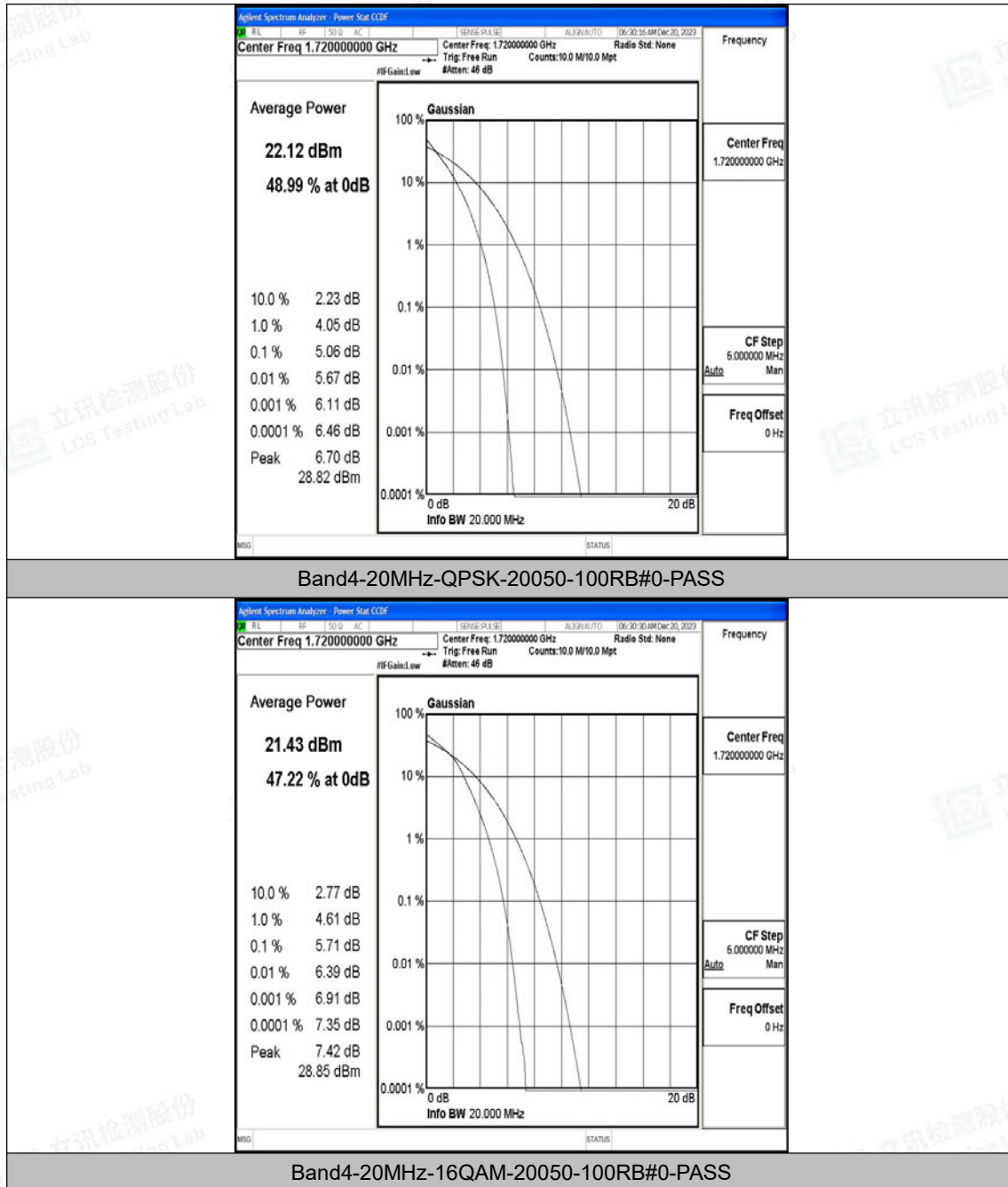
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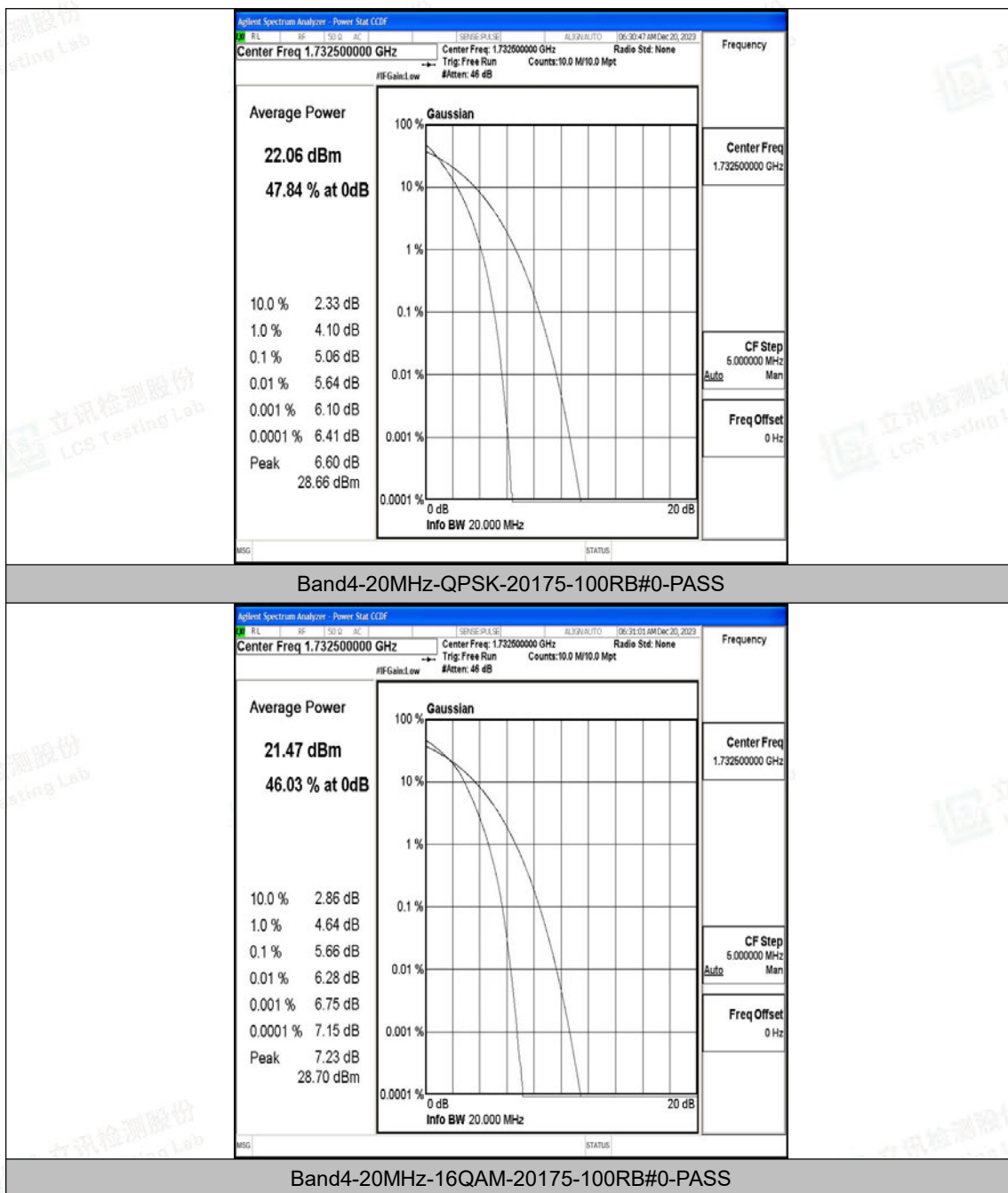


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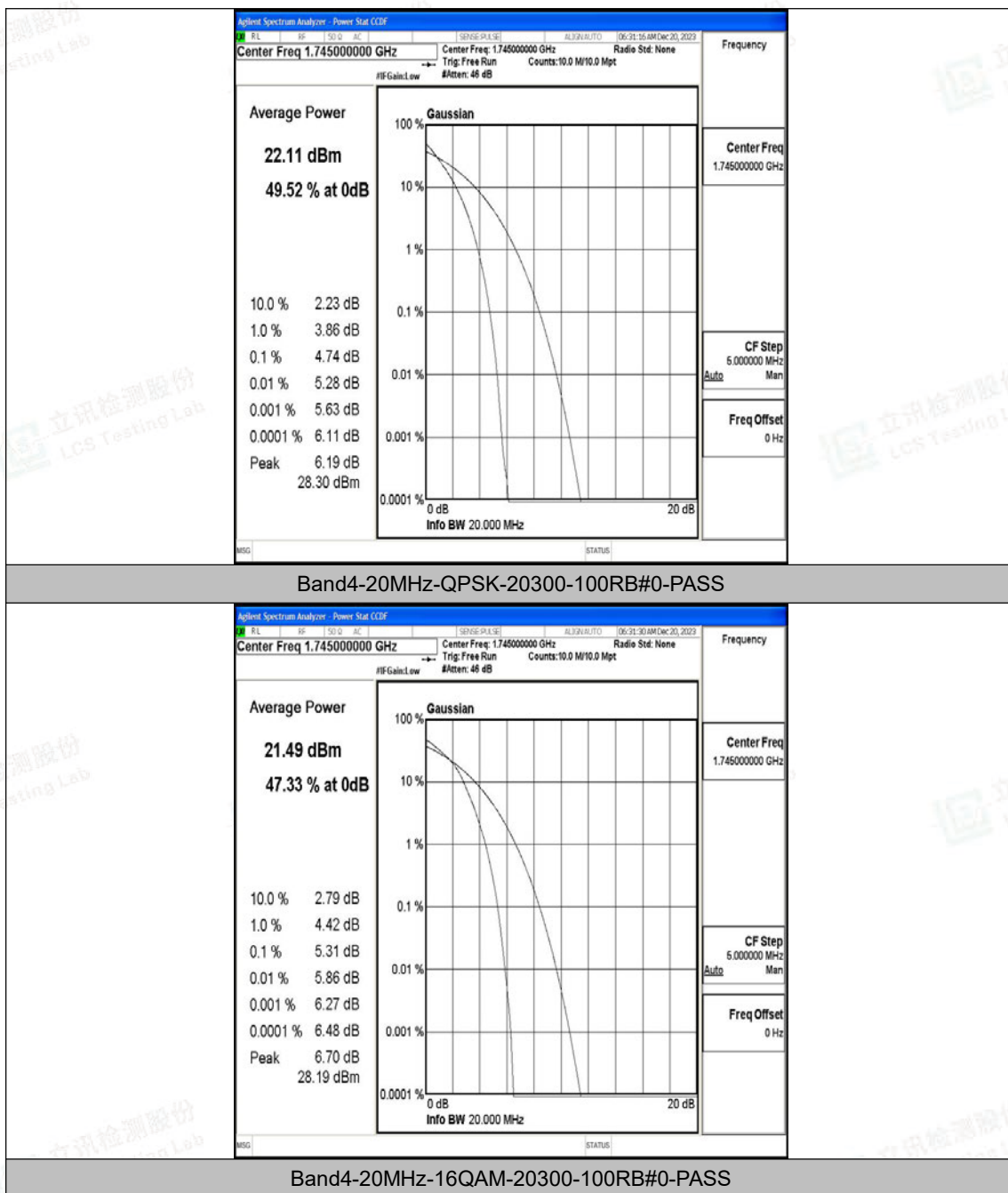


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B.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0967	1.303	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.1075	1.441	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0948	1.398	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1074	1.297	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0961	1.367	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.1046	1.350	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.7153	3.168	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.7090	3.150	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7137	3.074	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.7107	3.112	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7132	3.040	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.7149	3.103	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5262	5.505	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5242	5.416	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5231	5.388	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5285	5.289	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5294	5.308	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5202	5.268	PASS
Band4	10MHz	QPSK	20000	50RB#0	9.0141	10.07	PASS
Band4	10MHz	16QAM	20000	50RB#0	9.0136	10.22	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9881	10.10	PASS
Band4	10MHz	16QAM	20175	50RB#0	9.0038	10.18	PASS
Band4	10MHz	QPSK	20350	50RB#0	9.0269	10.43	PASS
Band4	10MHz	16QAM	20350	50RB#0	9.0190	10.63	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.516	15.55	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.530	15.03	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.552	15.34	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.526	15.12	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.513	17.27	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.543	15.01	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.051	20.20	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.044	20.11	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.019	19.95	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.045	20.12	PASS



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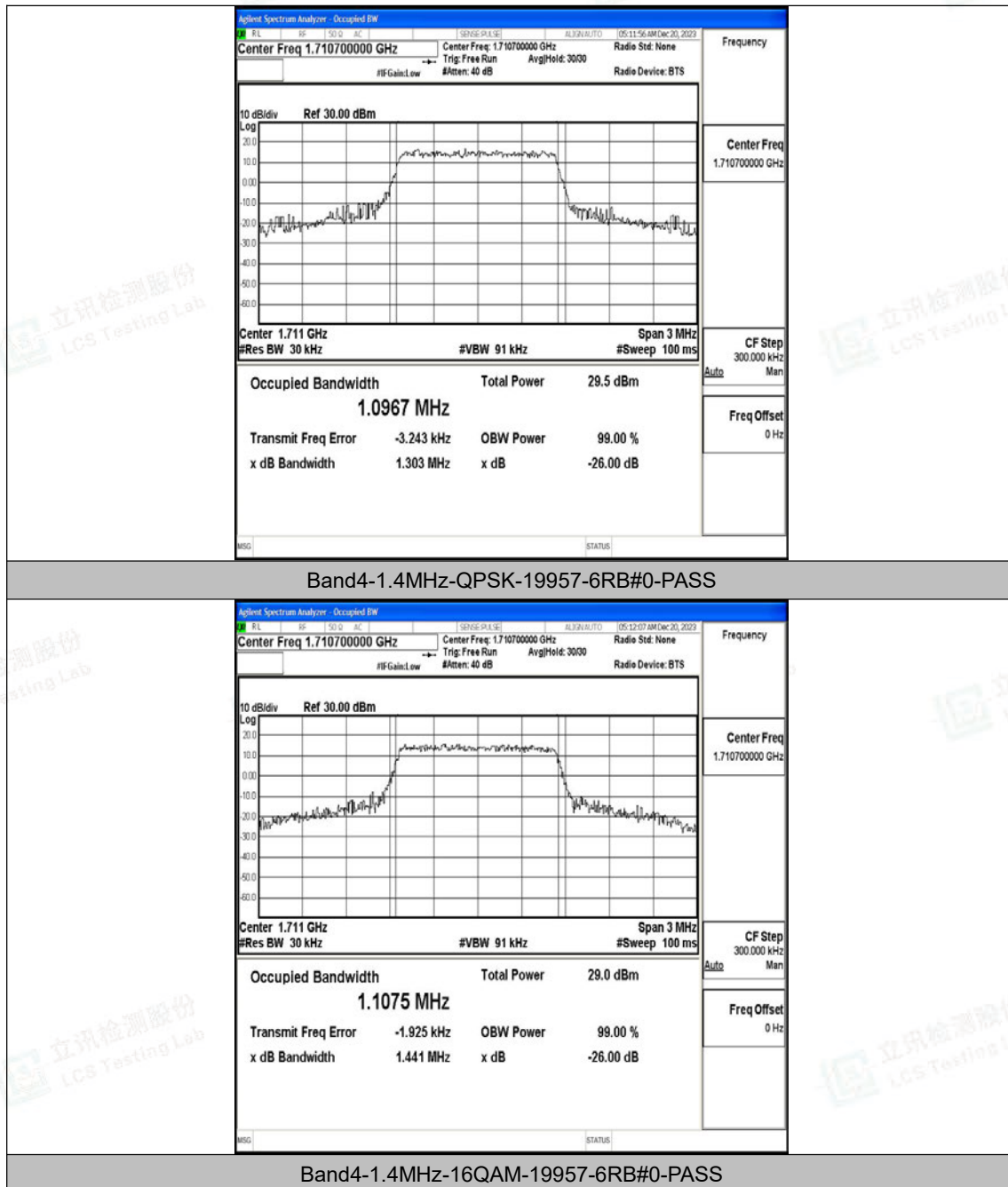
Band4	20MHz	QPSK	20300	100RB#0	18.039	20.55	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.038	20.19	PASS



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Test Graphs

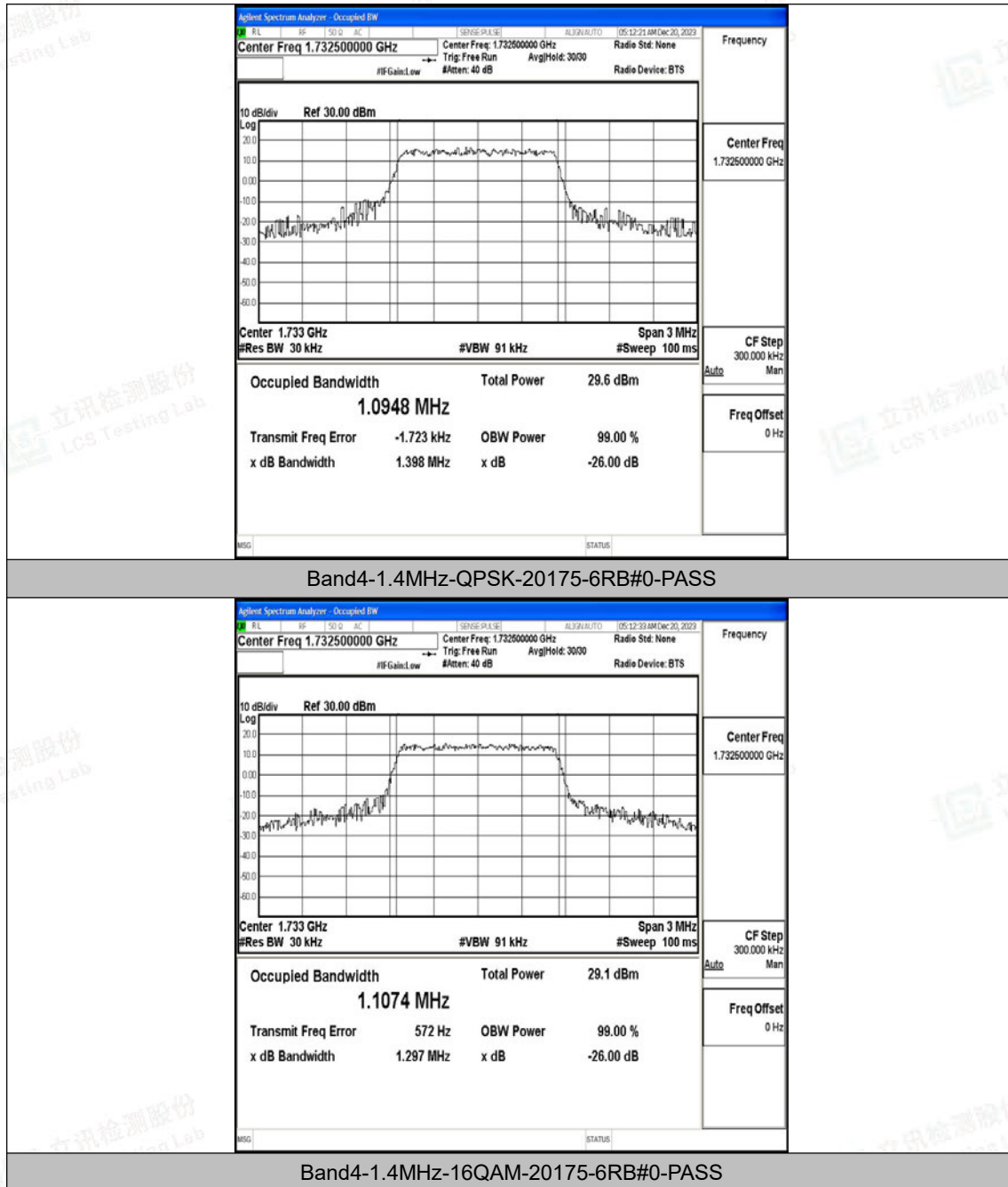


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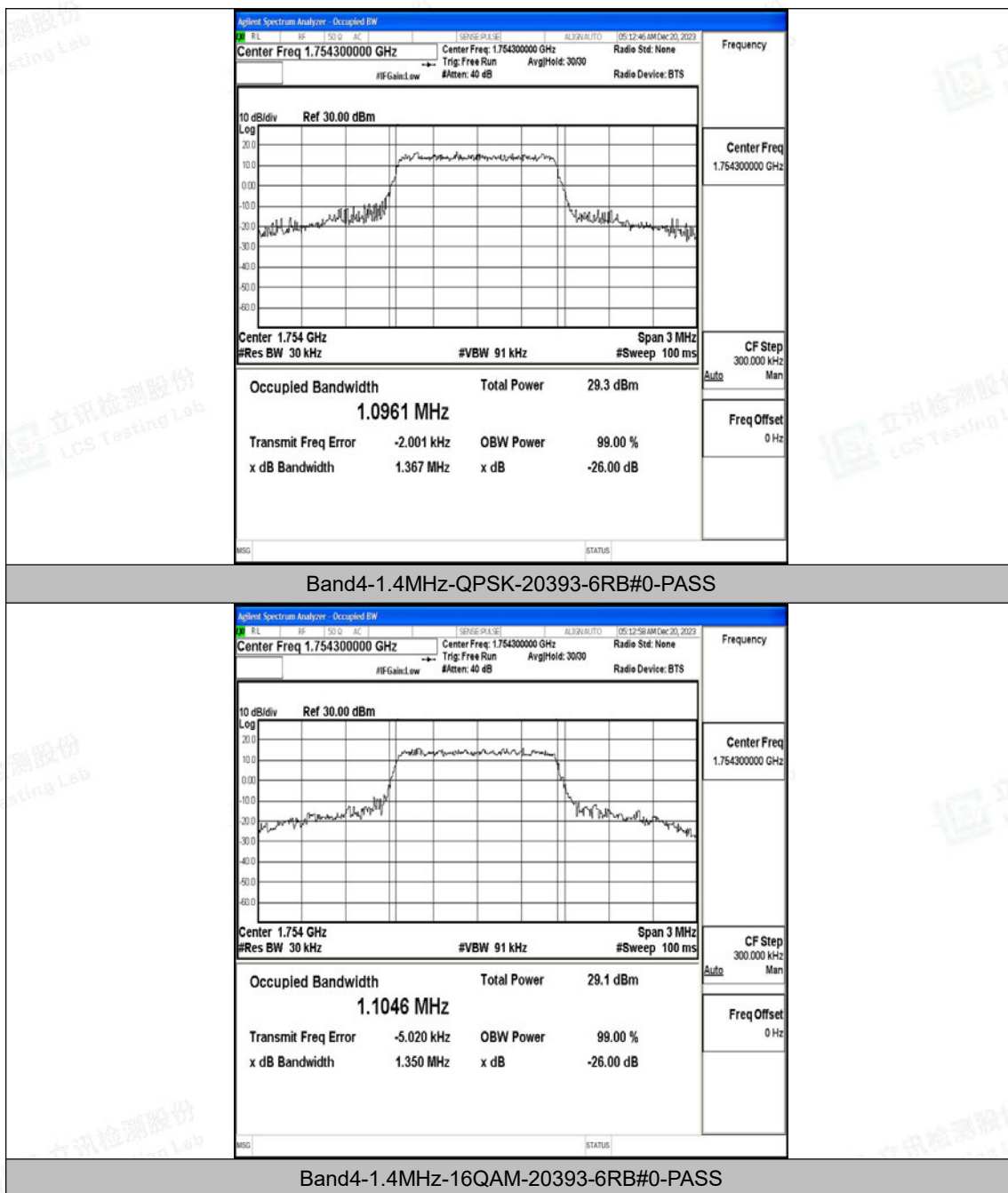


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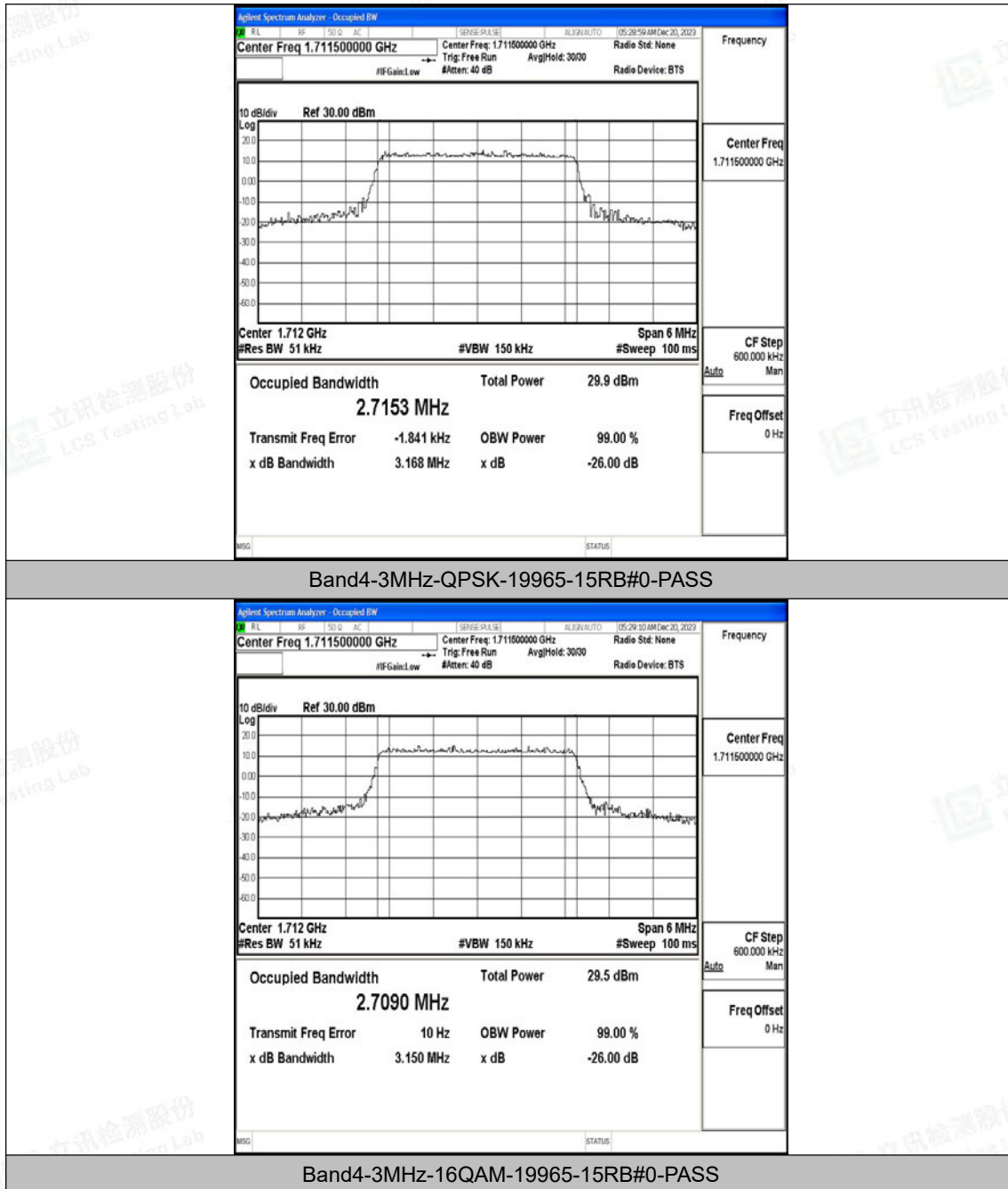


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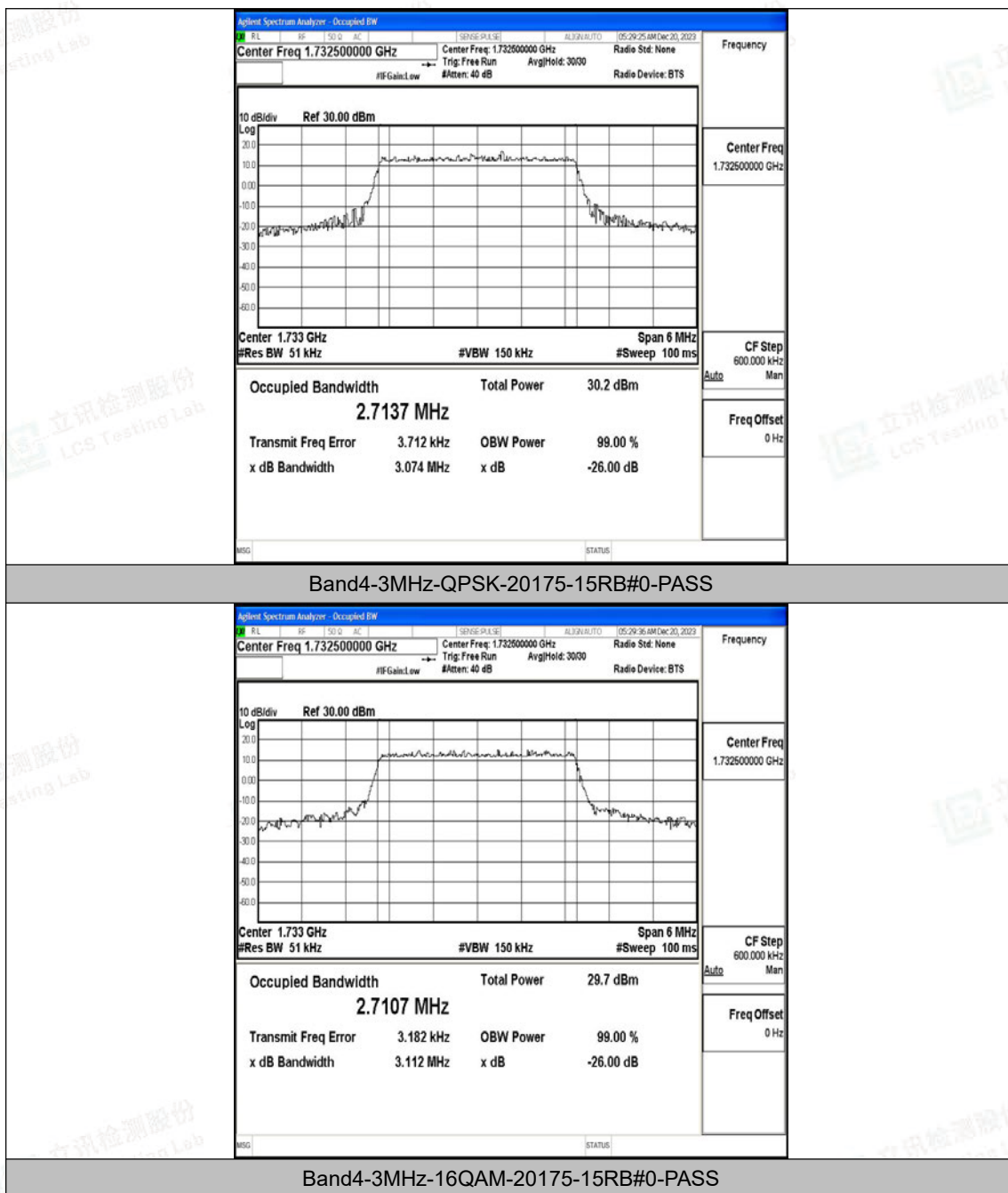


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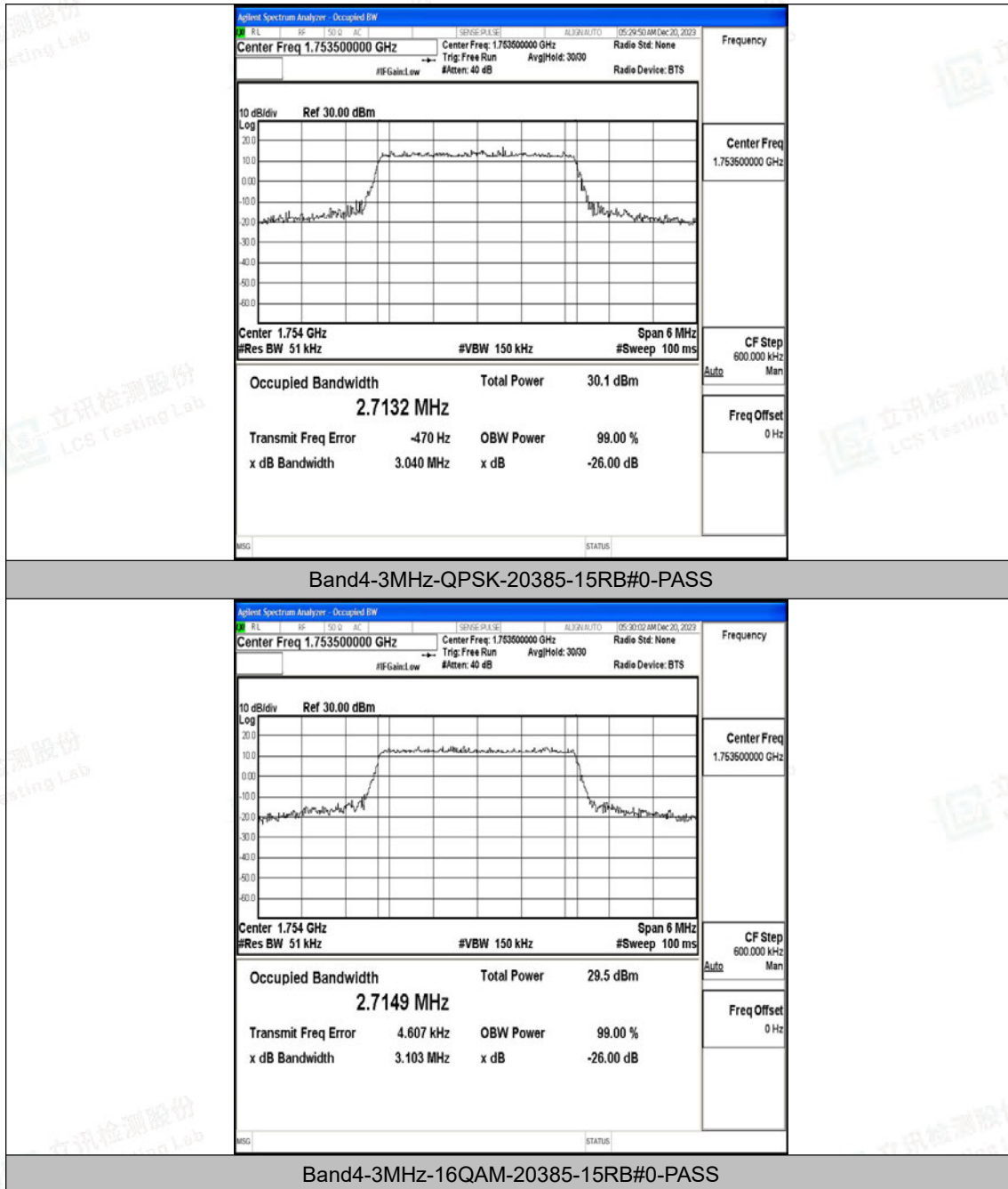


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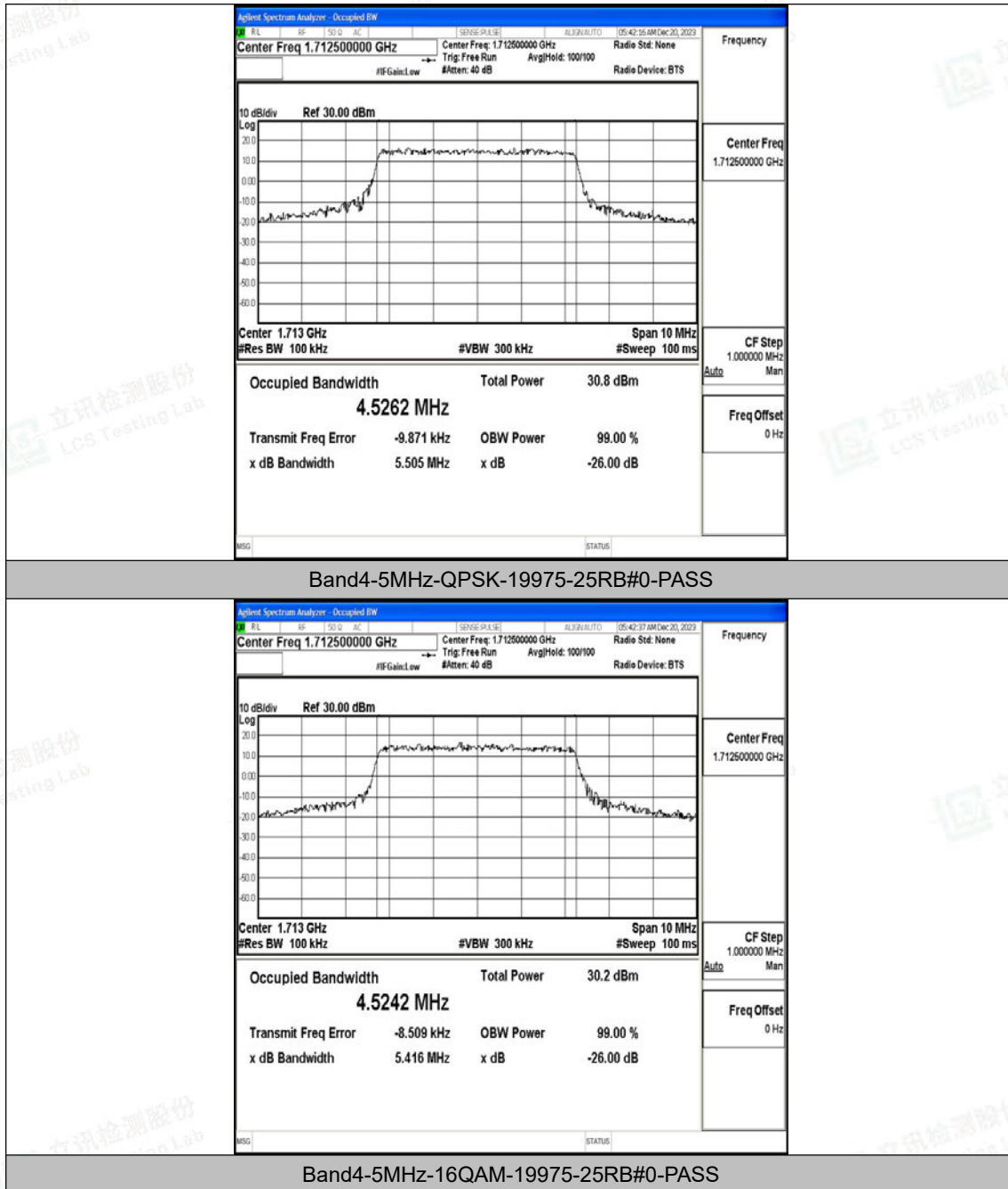


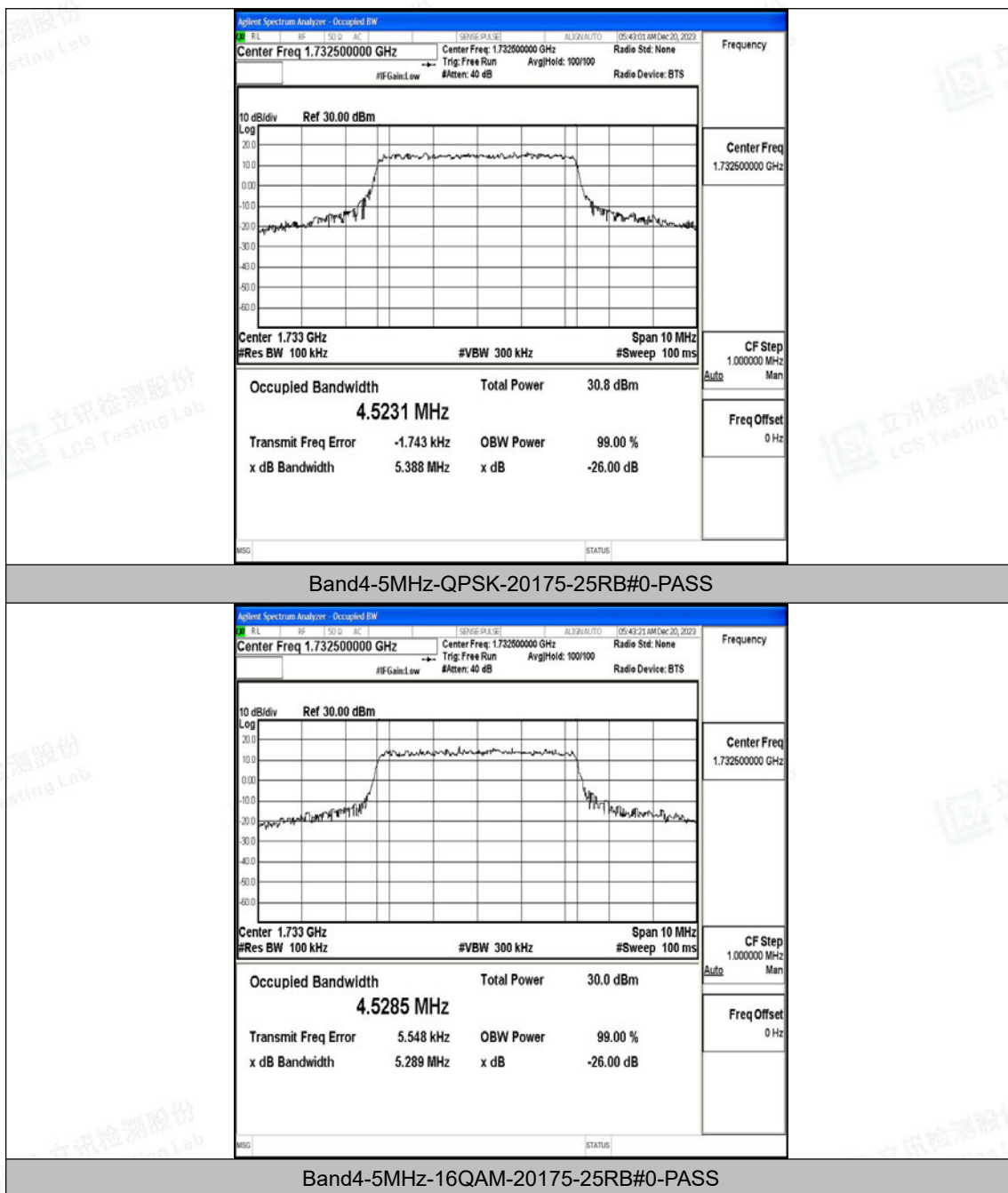
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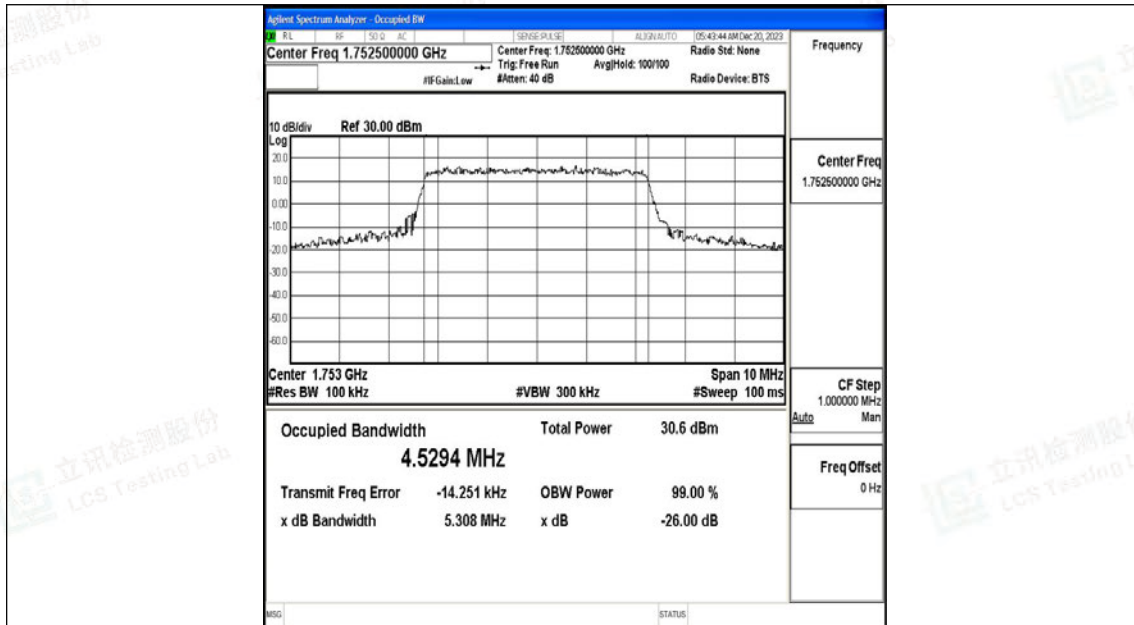


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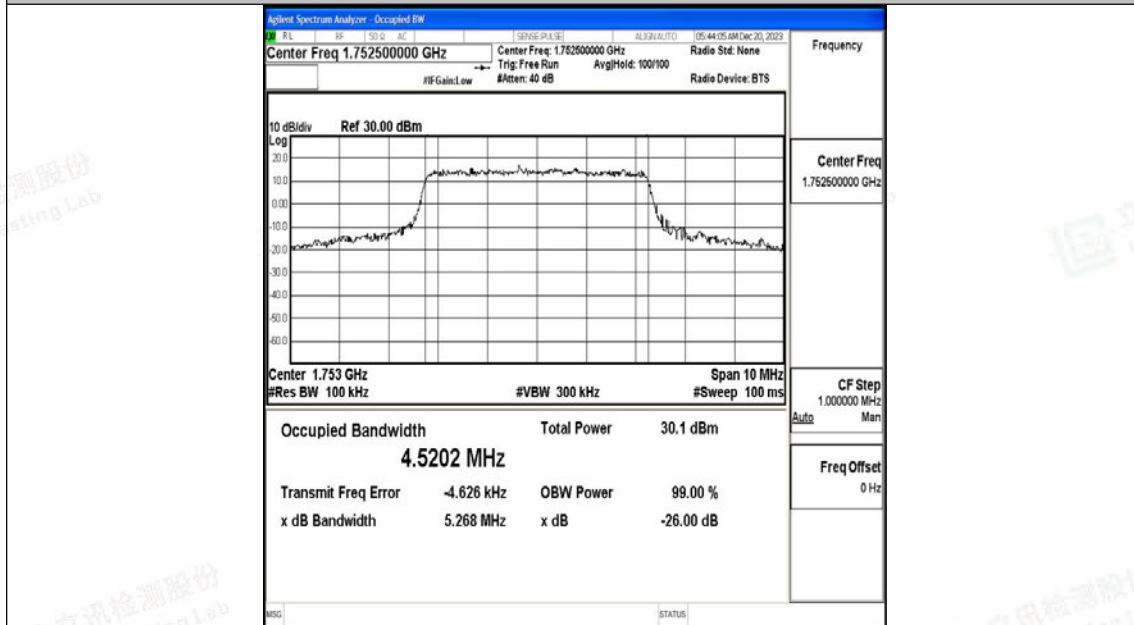
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Band4-5MHz-QPSK-20375-25RB#0-PASS



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

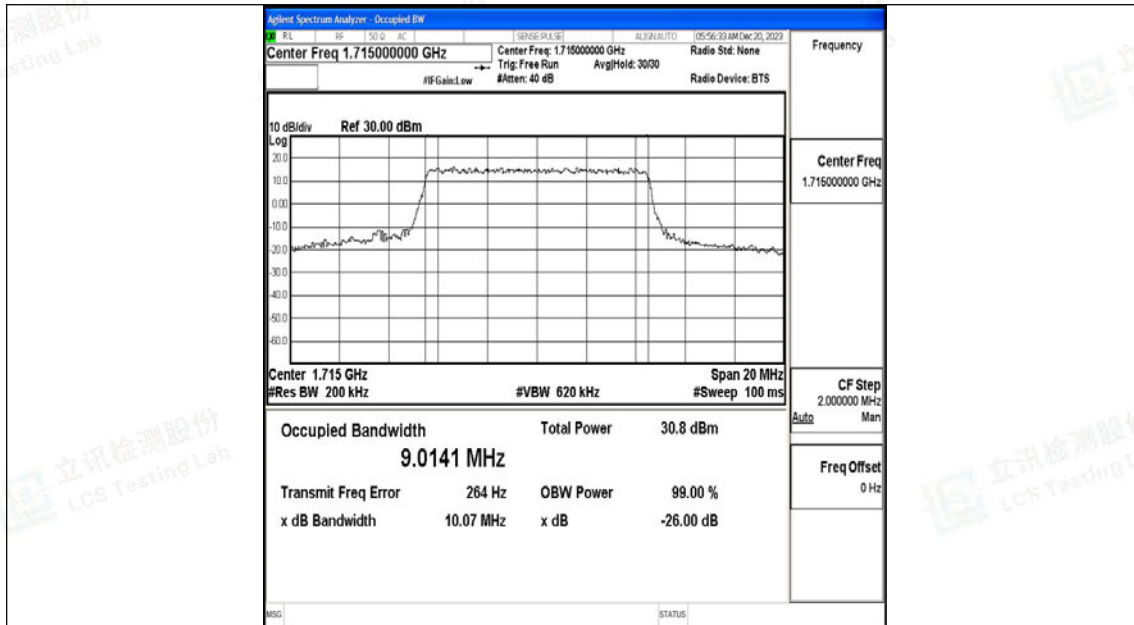


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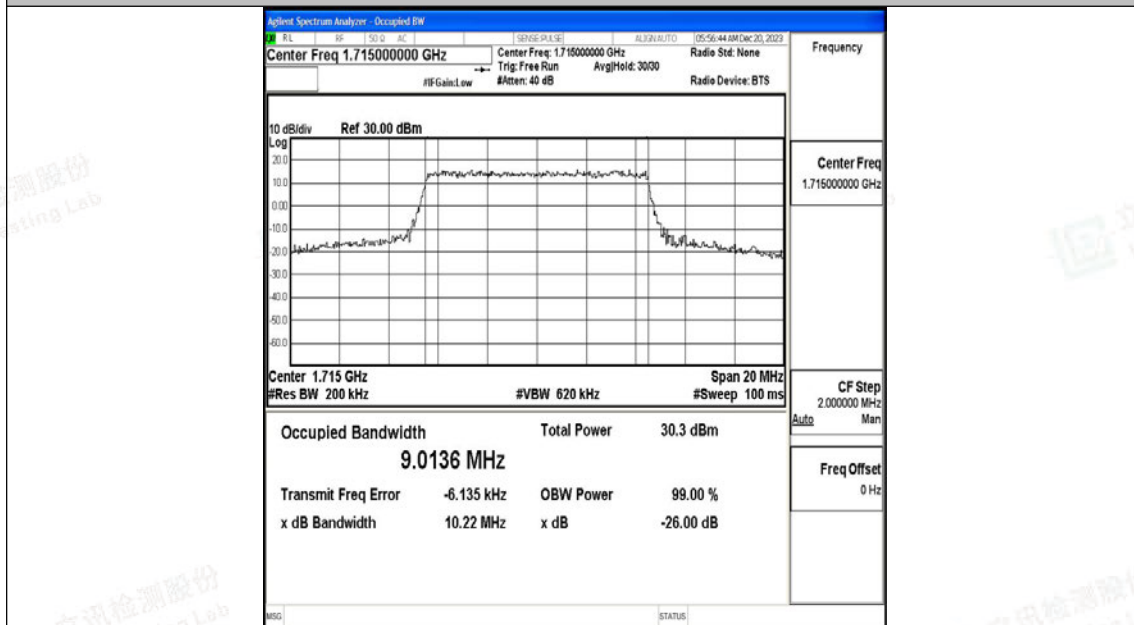
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Band4-10MHz-QPSK-20000-50RB#0-PASS



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

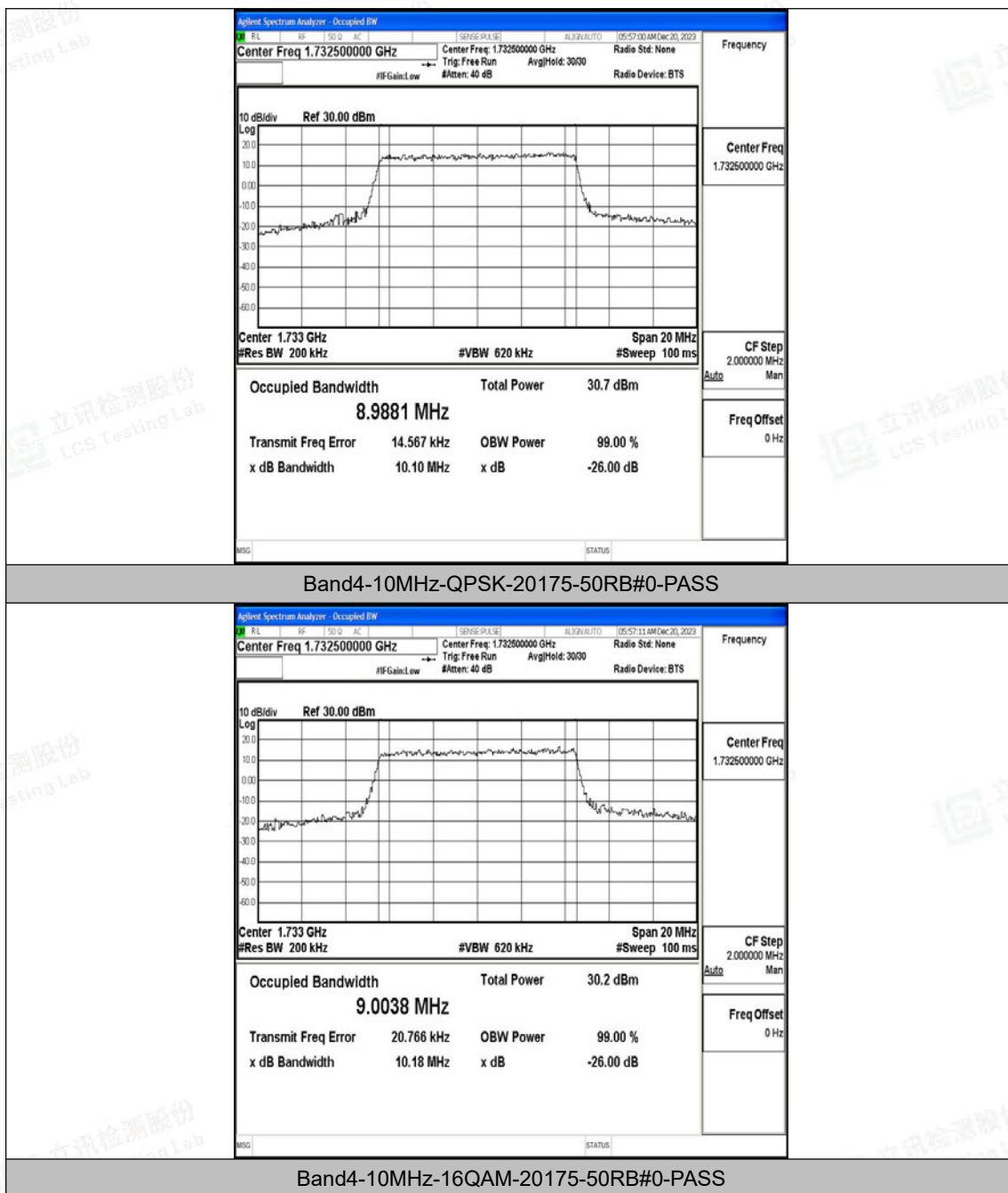


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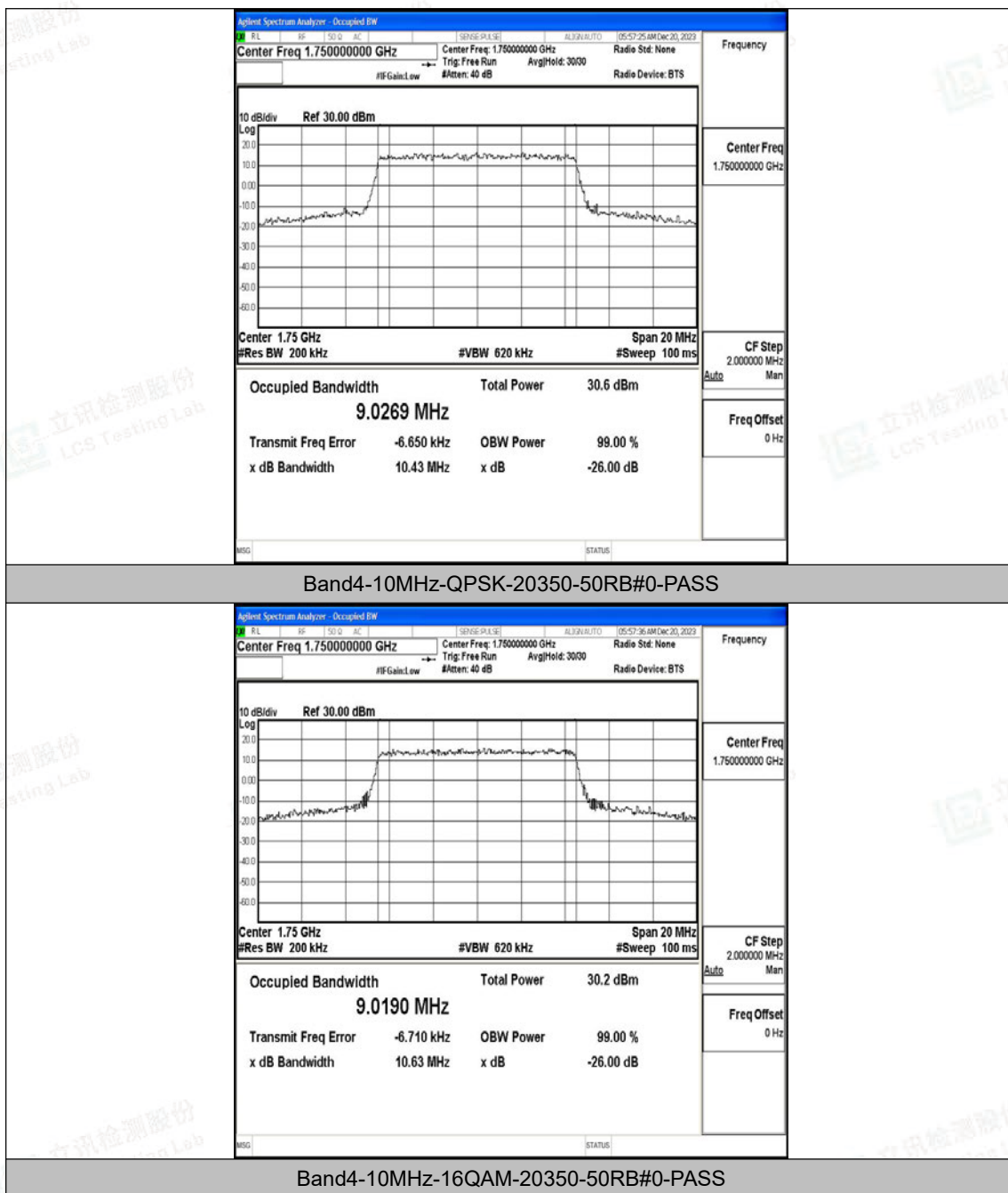


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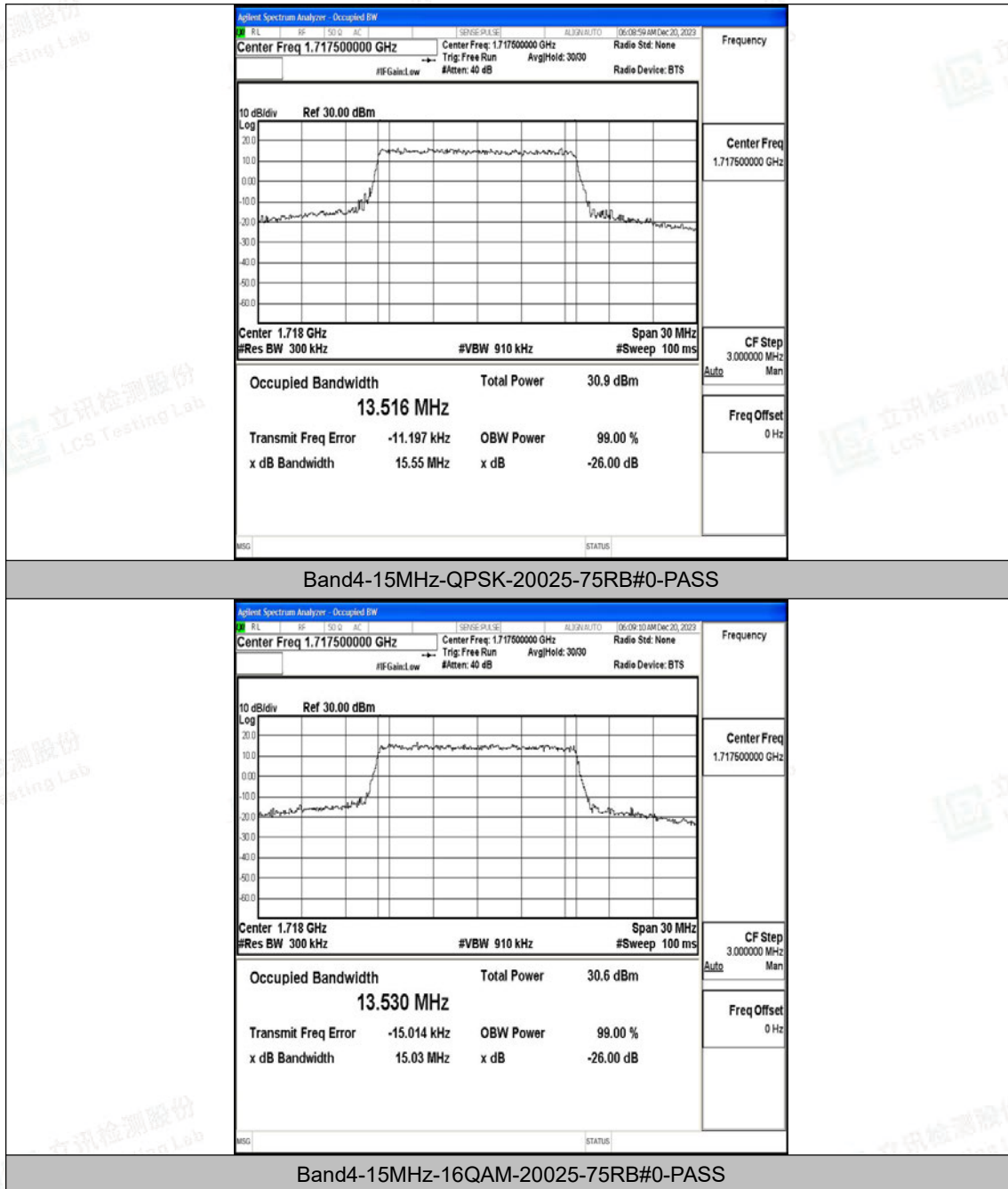


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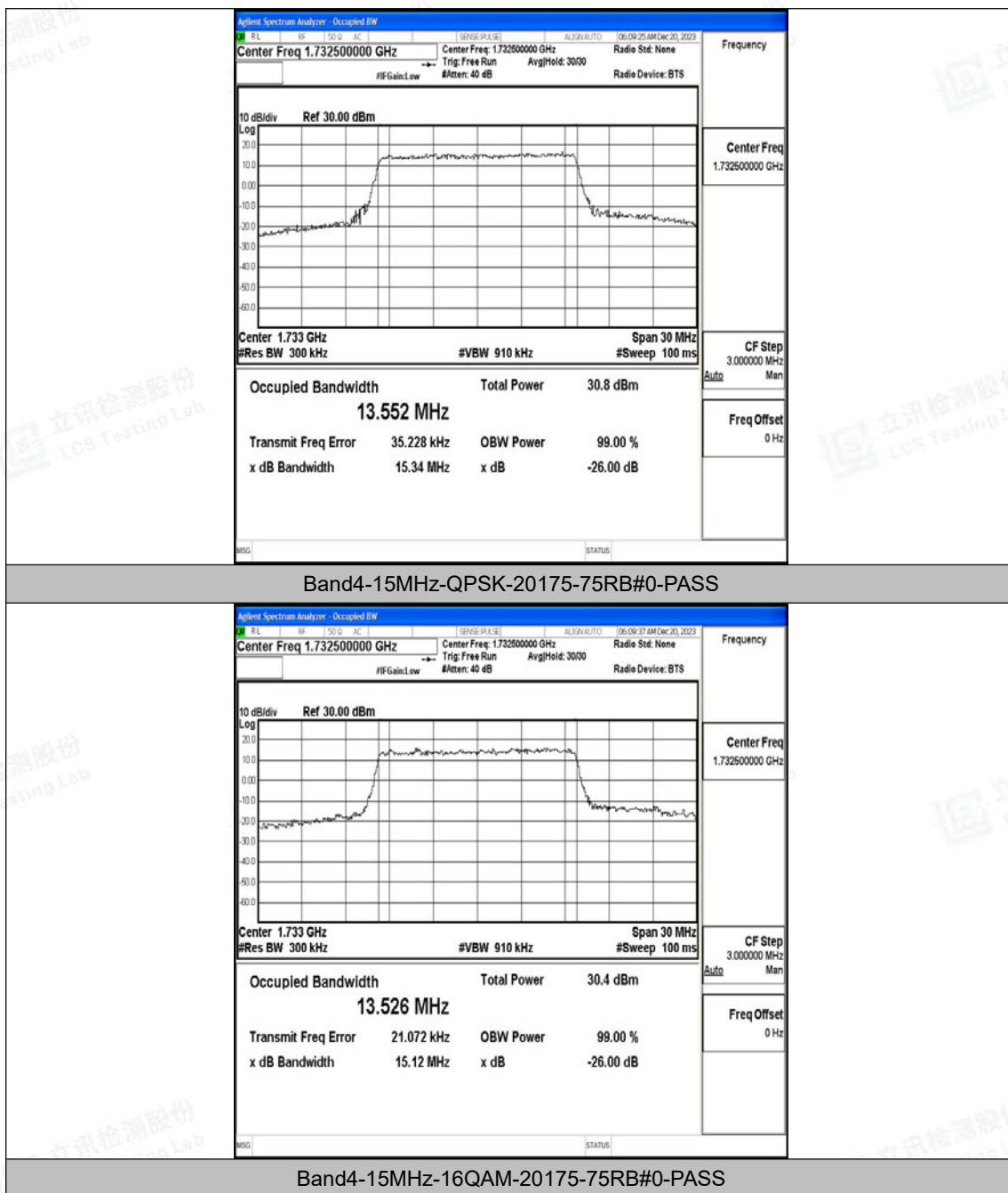


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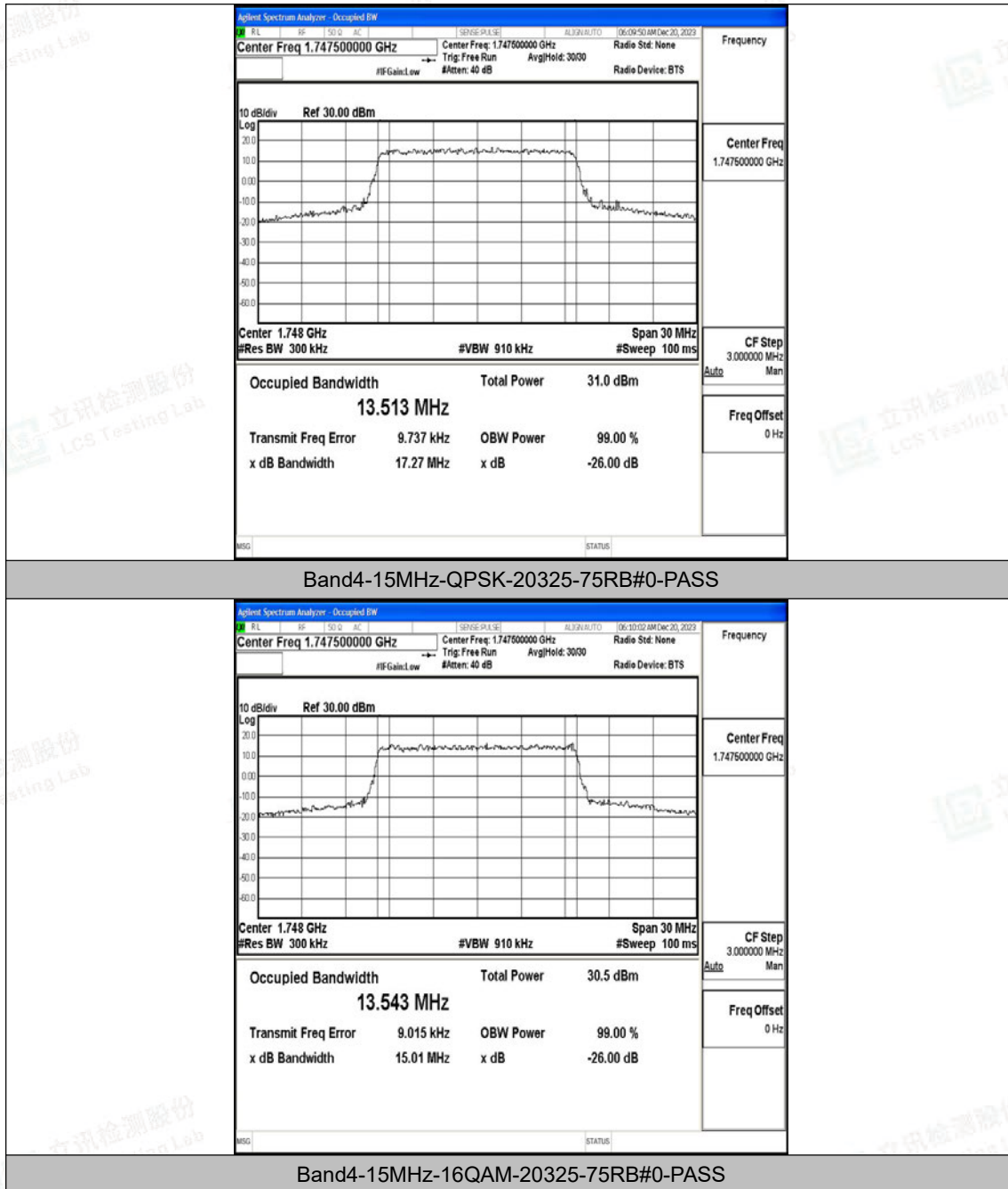


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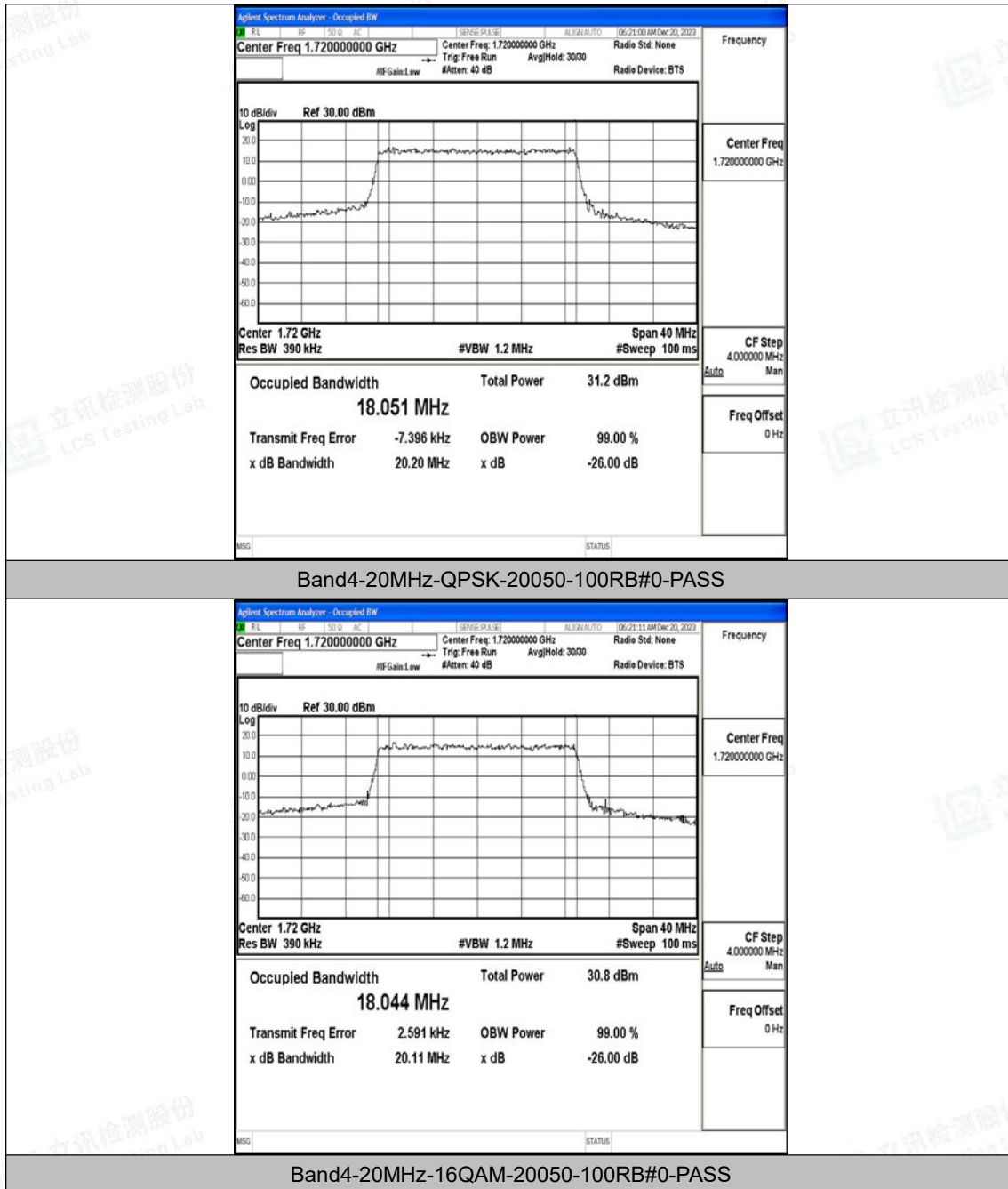


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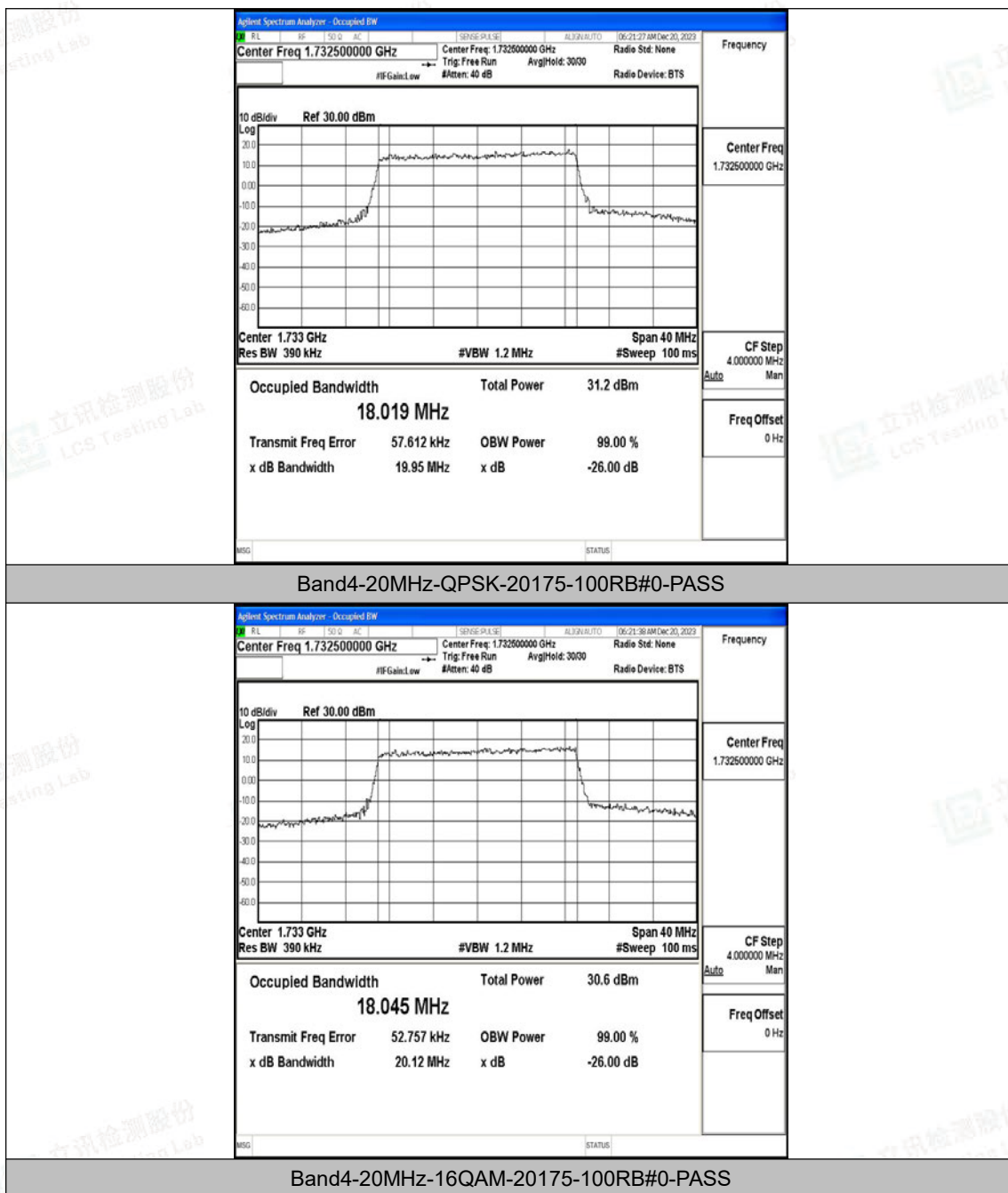


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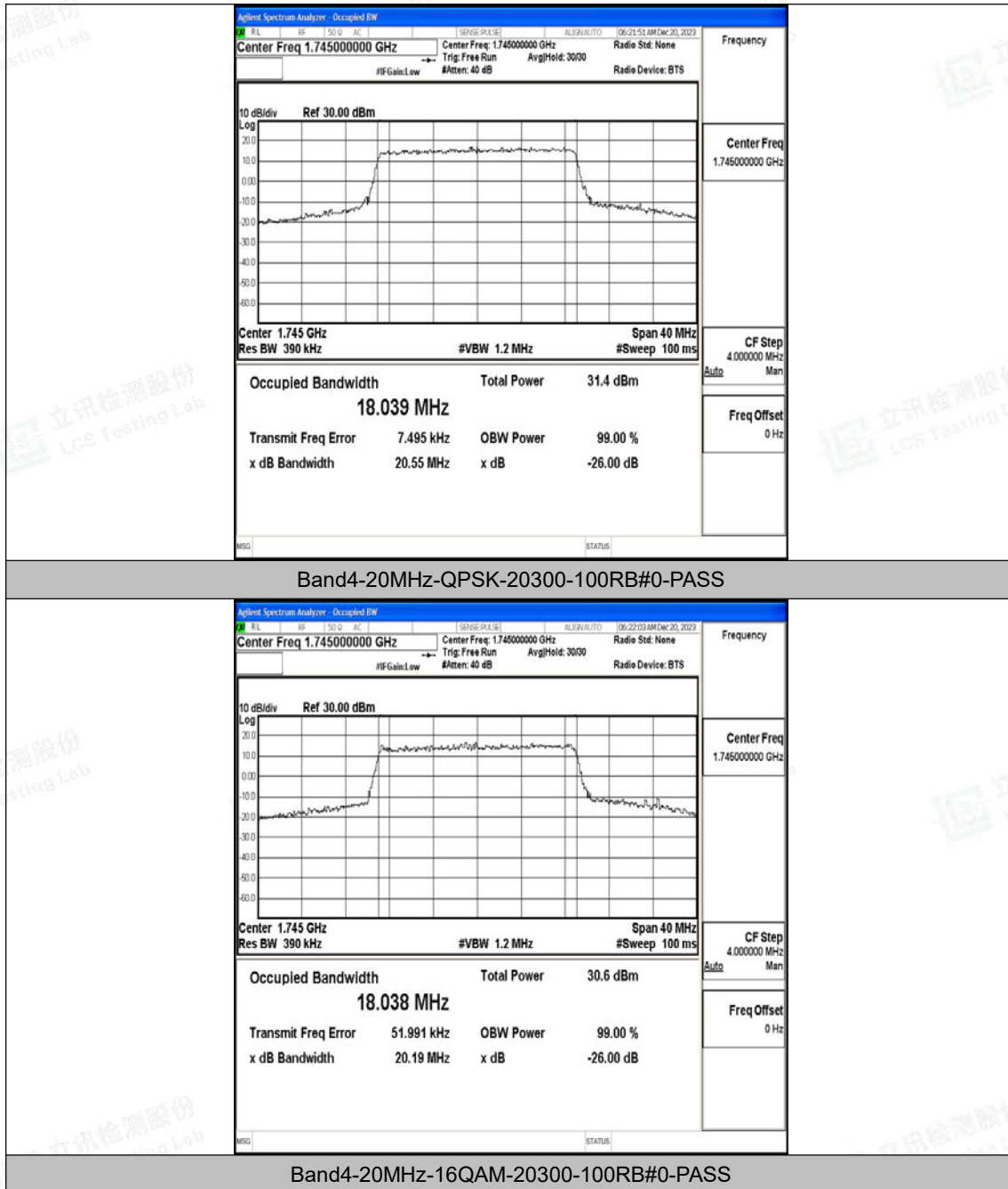


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B.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1709.87	-25.67	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1709.98	-25.55	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1755.12	-25.06	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1755.00	-25.65	PASS
Band4	3MHz	QPSK	19965	15RB#0	1710.00	-21.77	PASS
Band4	3MHz	16QAM	19965	15RB#0	1710.00	-23.18	PASS
Band4	3MHz	QPSK	20385	15RB#0	1755.00	-21.21	PASS
Band4	3MHz	16QAM	20385	15RB#0	1755.00	-23.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	1710.00	-23.34	PASS
Band4	5MHz	16QAM	19975	25RB#0	1710.00	-25.09	PASS
Band4	5MHz	QPSK	20375	25RB#0	1755.03	-24.53	PASS
Band4	5MHz	16QAM	20375	25RB#0	1755.00	-24.41	PASS
Band4	10MHz	QPSK	20000	50RB#0	1709.94	-25.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	1709.98	-27.06	PASS
Band4	10MHz	QPSK	20350	50RB#0	1755.08	-24.30	PASS
Band4	10MHz	16QAM	20350	50RB#0	1755.03	-25.37	PASS
Band4	15MHz	QPSK	20025	75RB#0	1709.99	-24.92	PASS
Band4	15MHz	16QAM	20025	75RB#0	1709.14	-26.77	PASS
Band4	15MHz	QPSK	20325	75RB#0	1755.39	-23.58	PASS
Band4	15MHz	16QAM	20325	75RB#0	1755.47	-24.59	PASS
Band4	20MHz	QPSK	20050	100RB#0	1709.84	-25.42	PASS
Band4	20MHz	16QAM	20050	100RB#0	1709.95	-26.74	PASS
Band4	20MHz	QPSK	20300	100RB#0	1755.01	-23.68	PASS
Band4	20MHz	16QAM	20300	100RB#0	1755.12	-24.97	PASS



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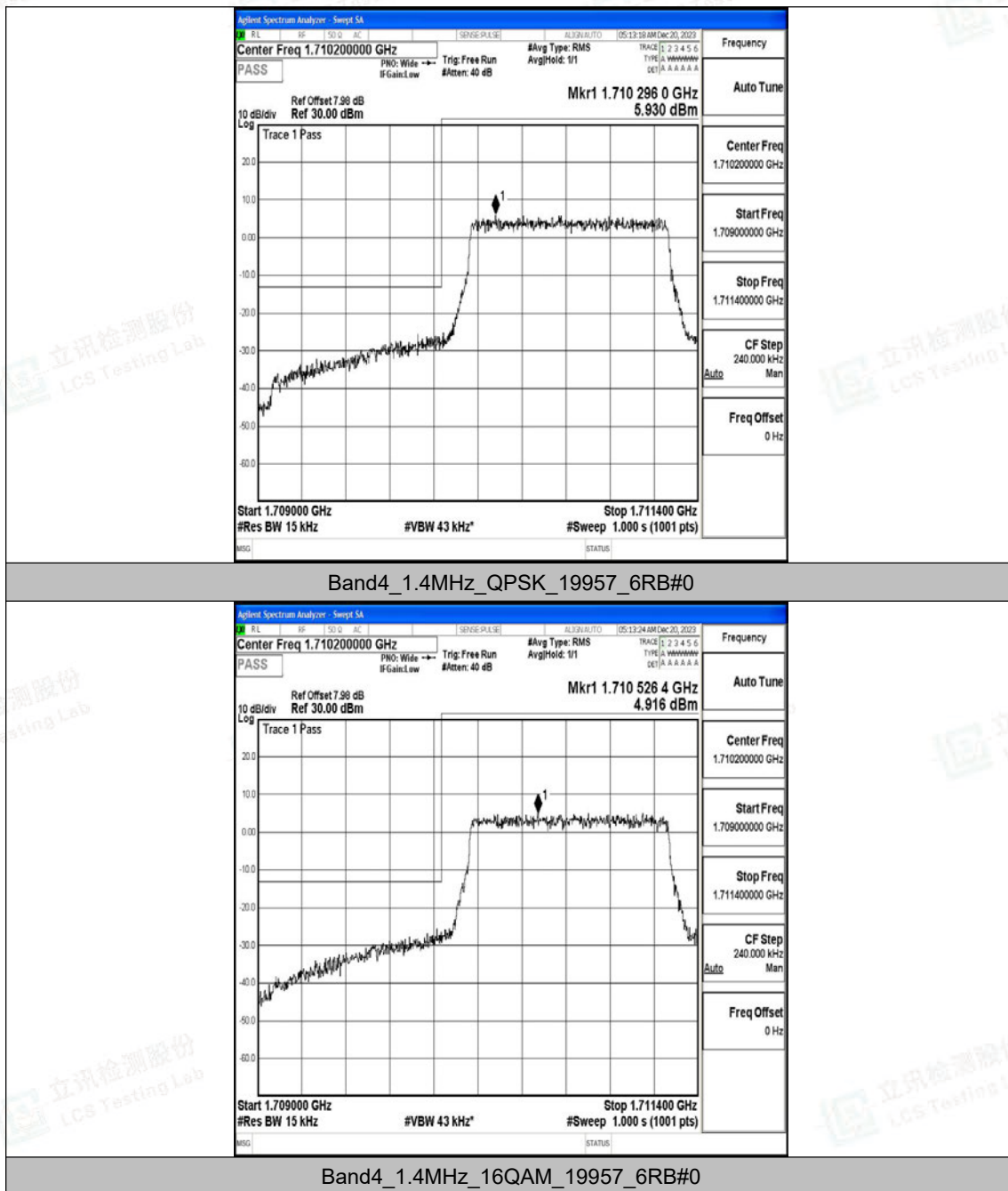
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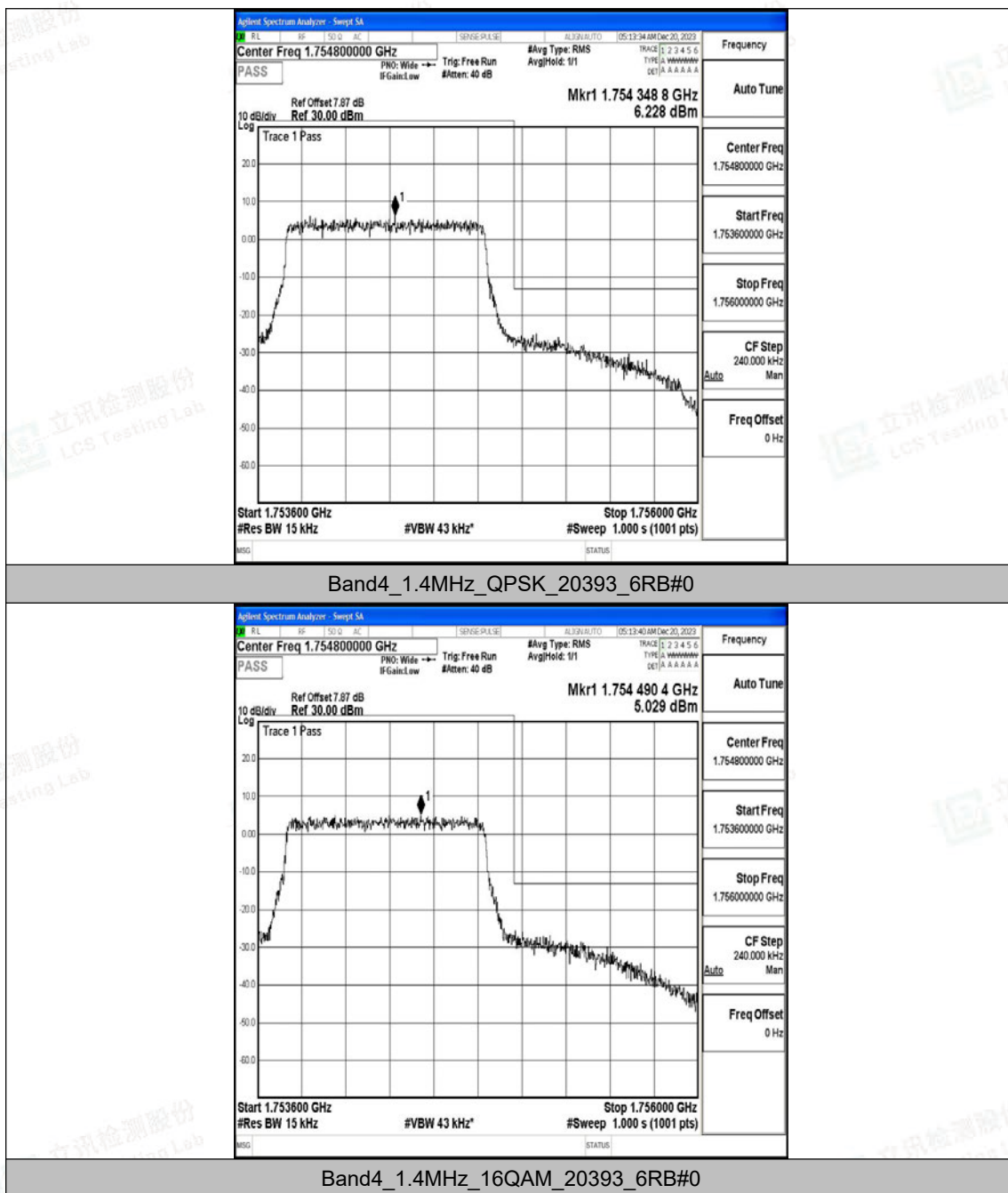
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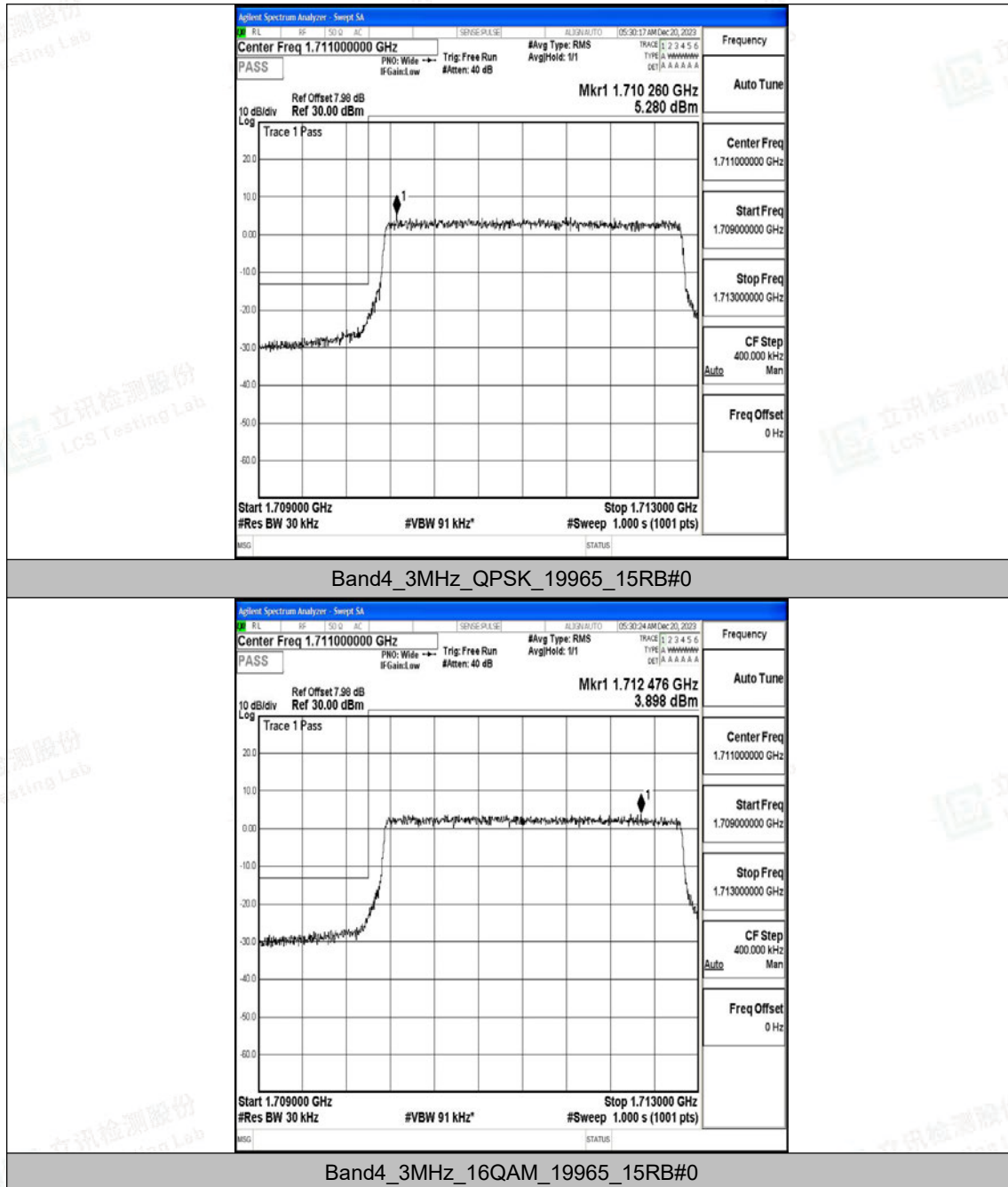
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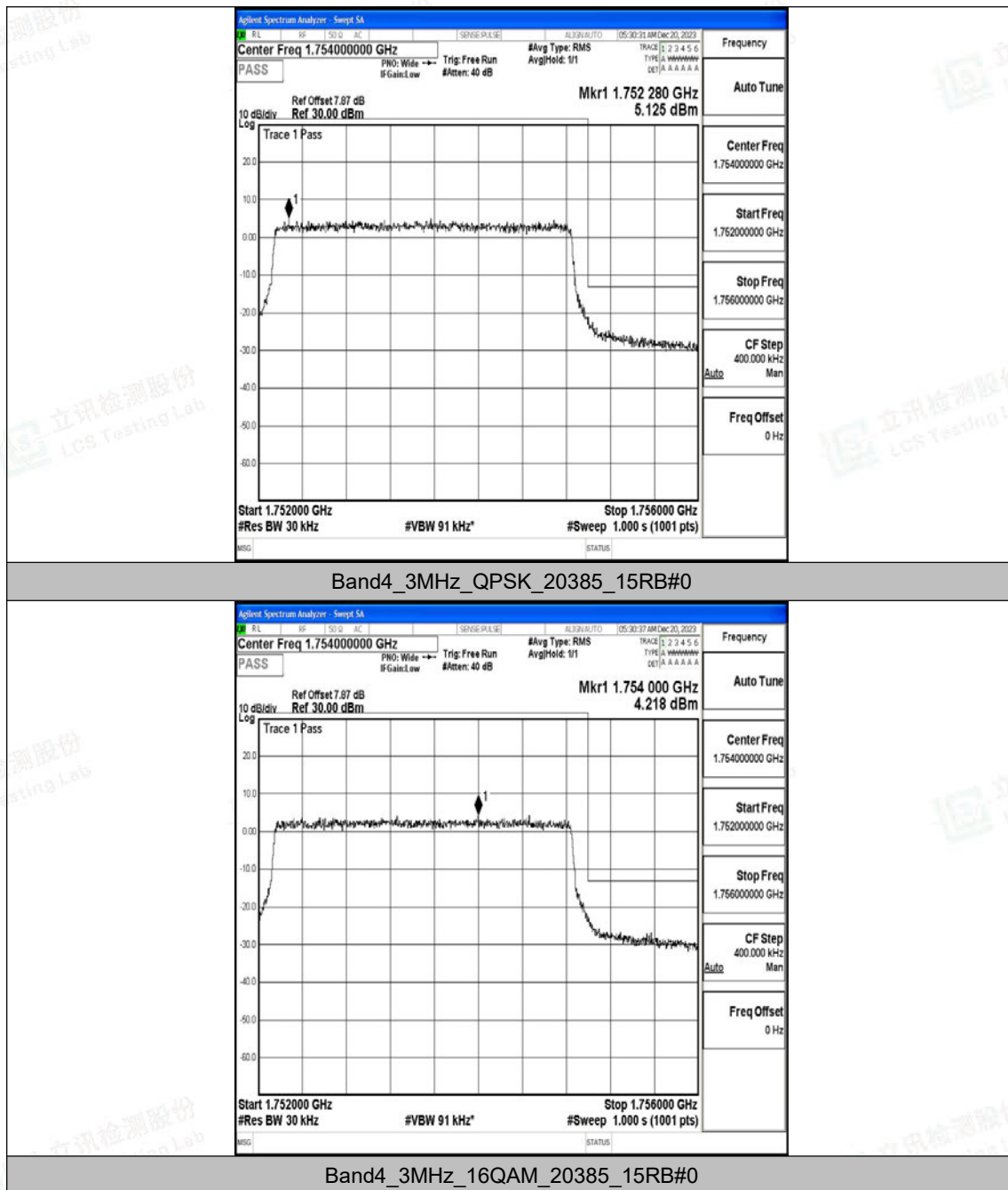


Test Graphs







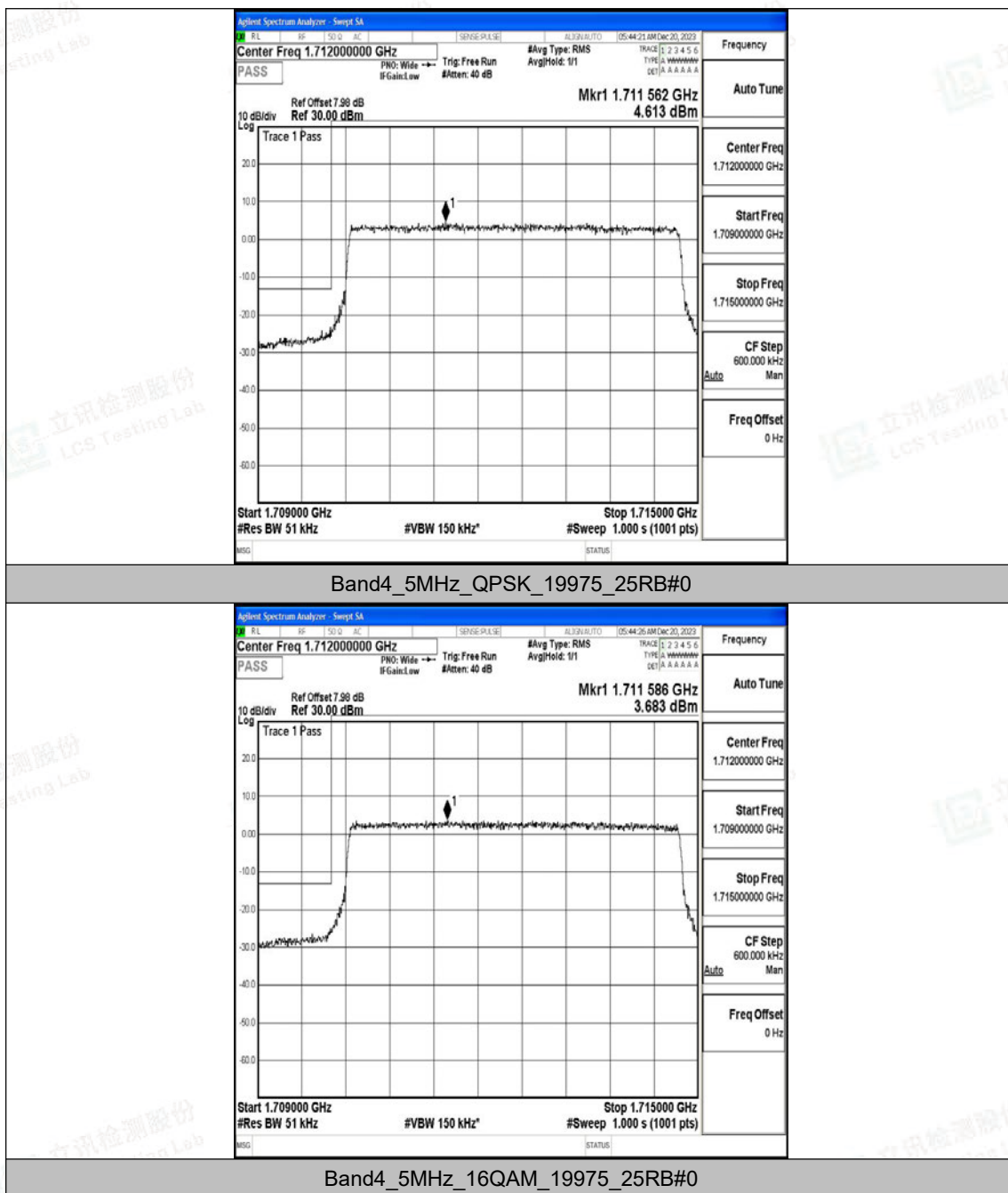


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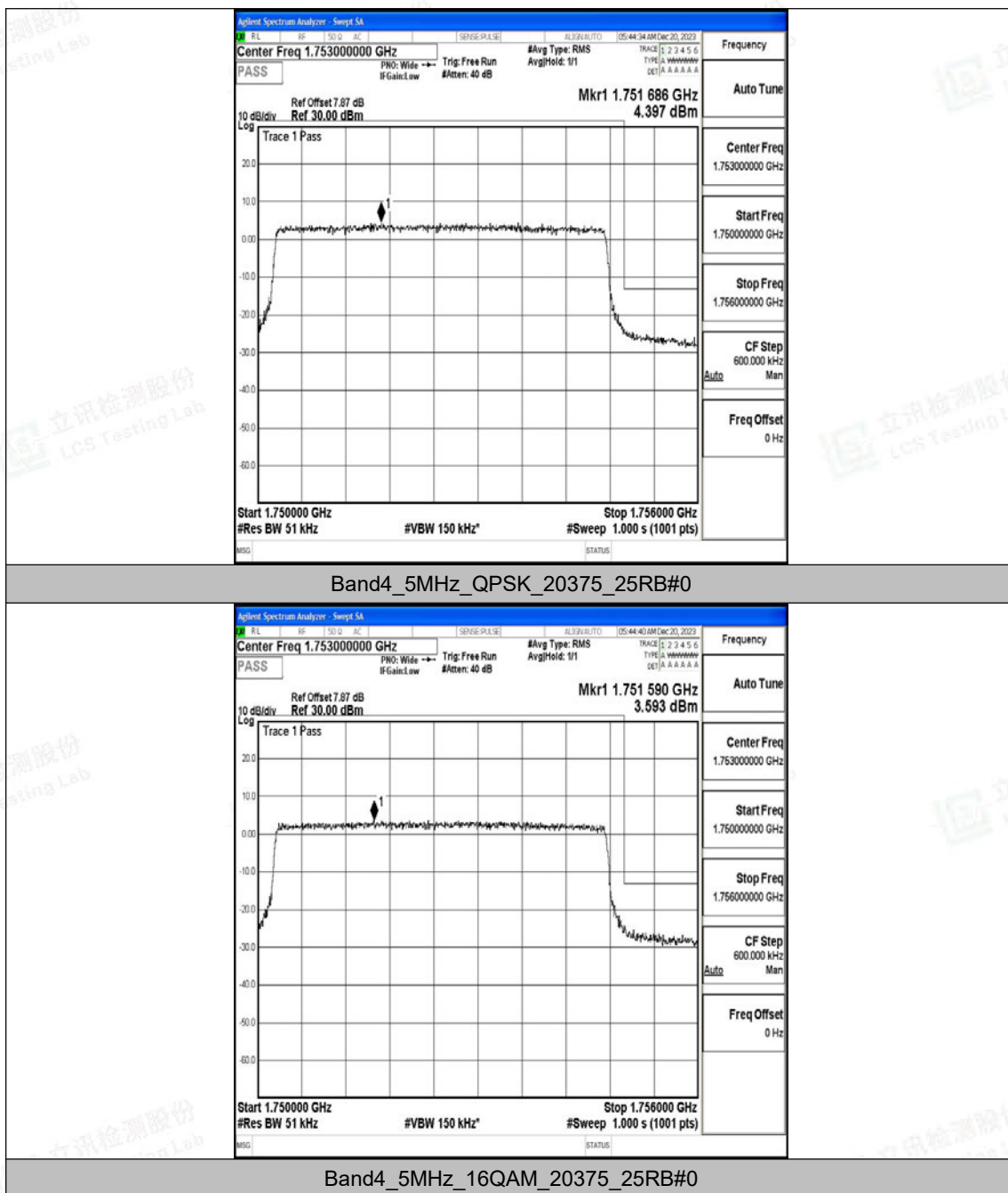


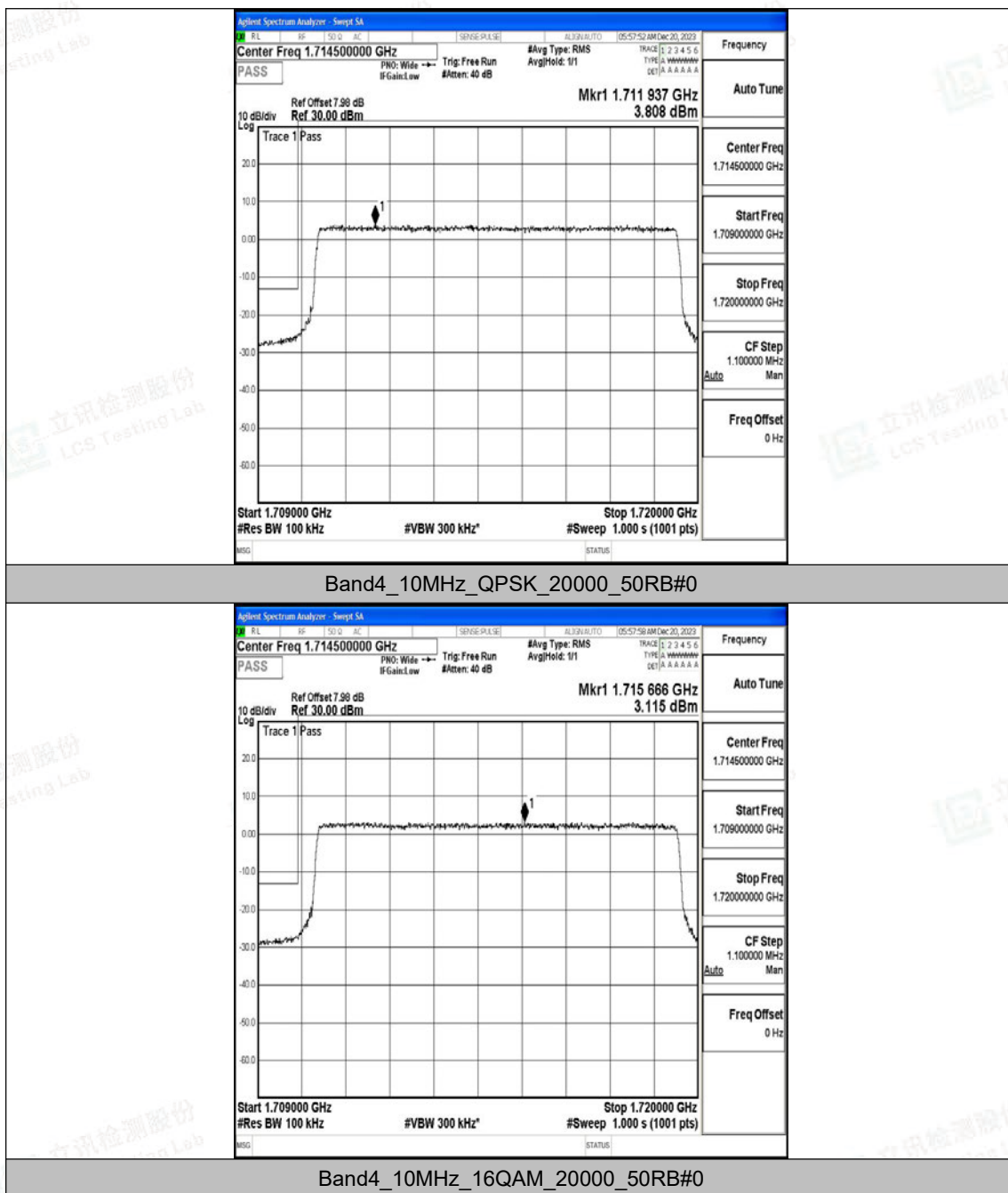
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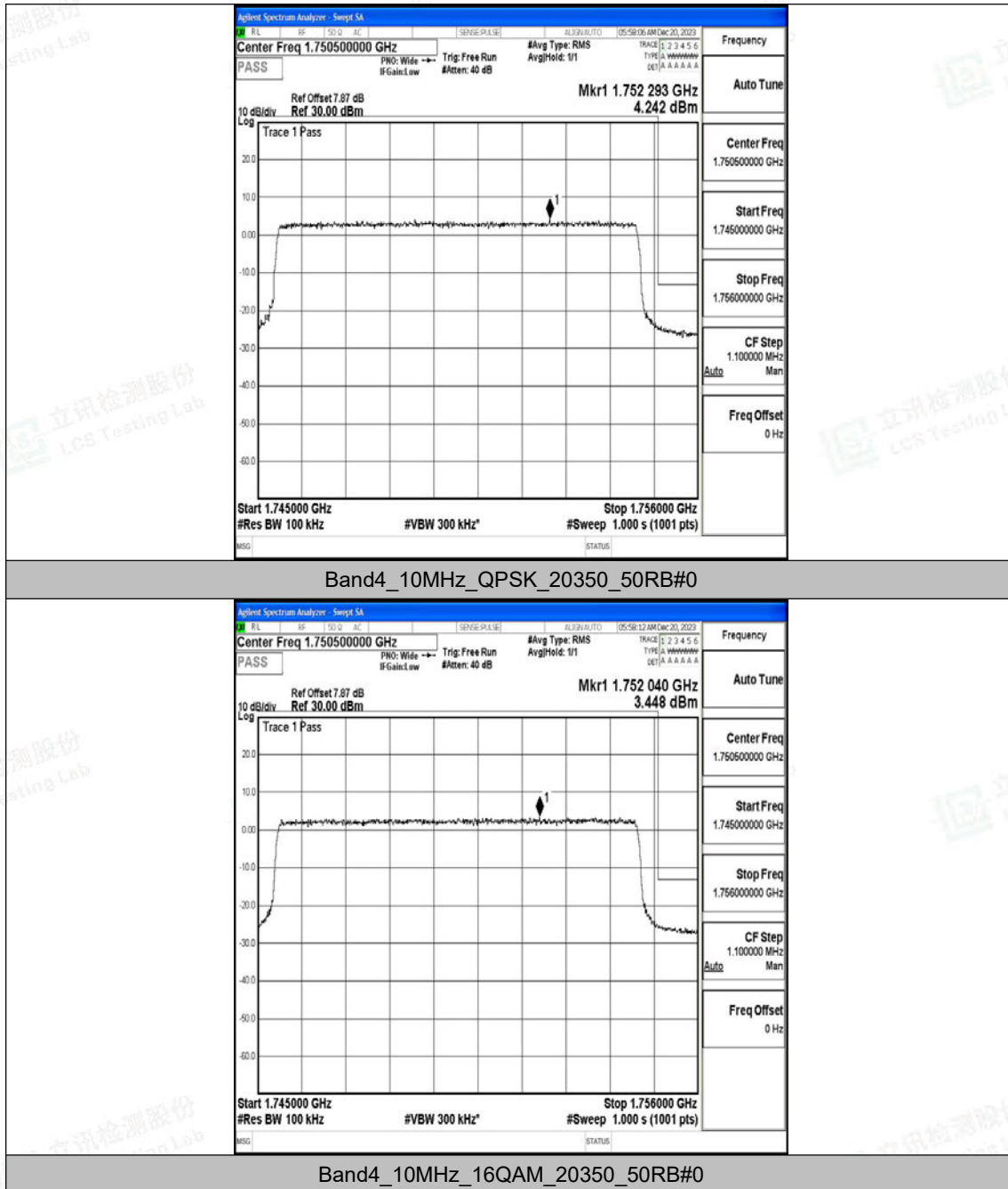
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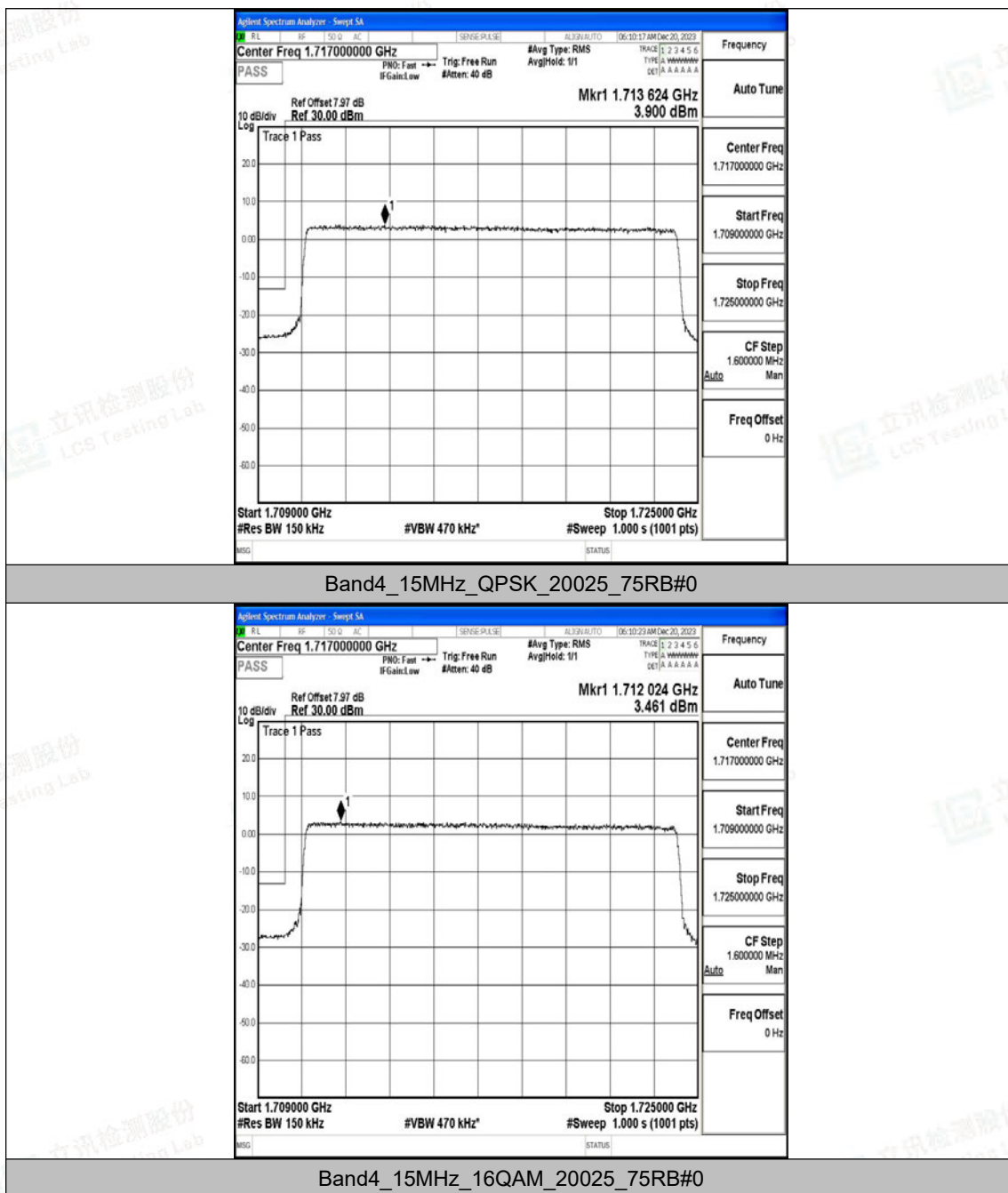
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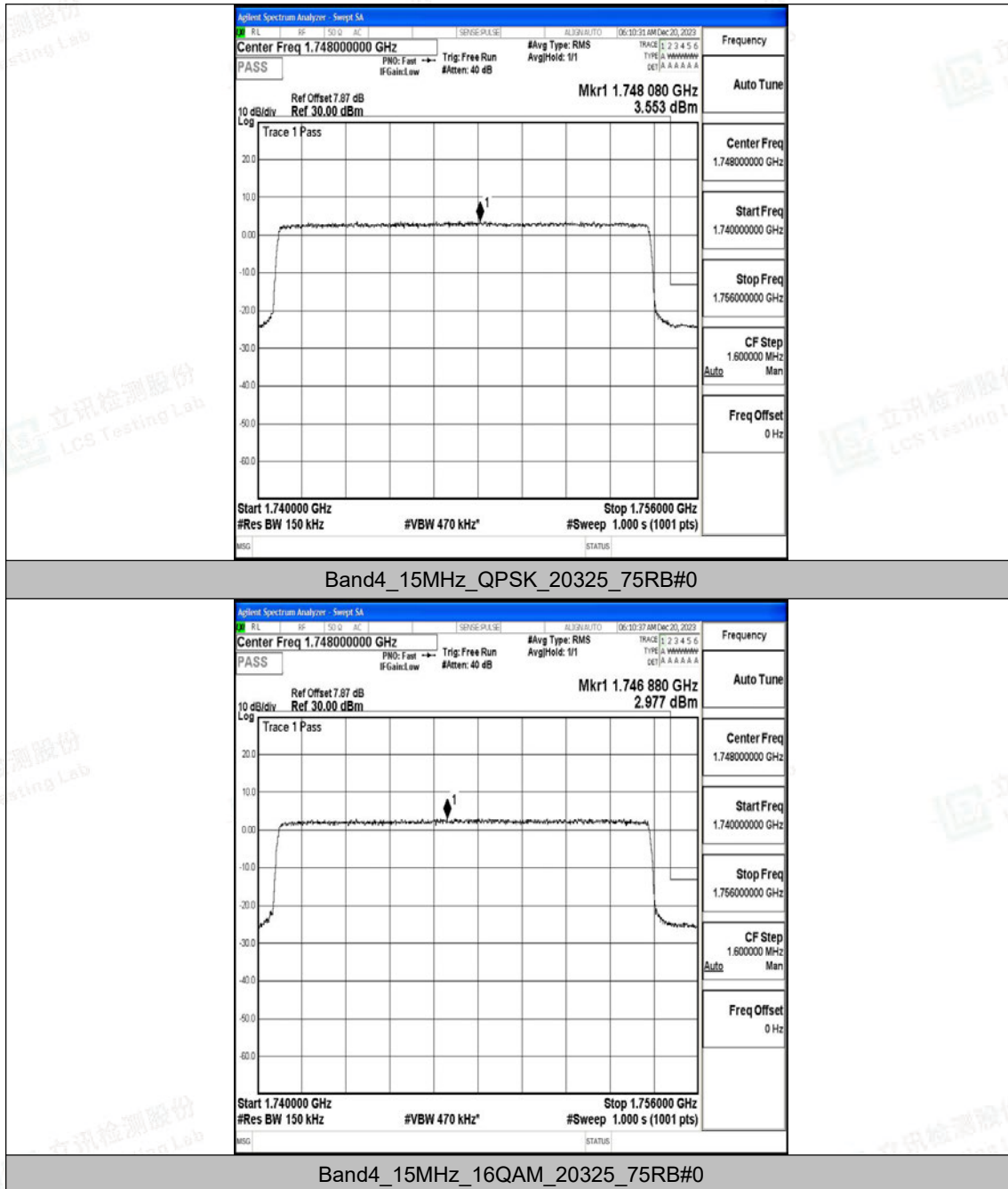
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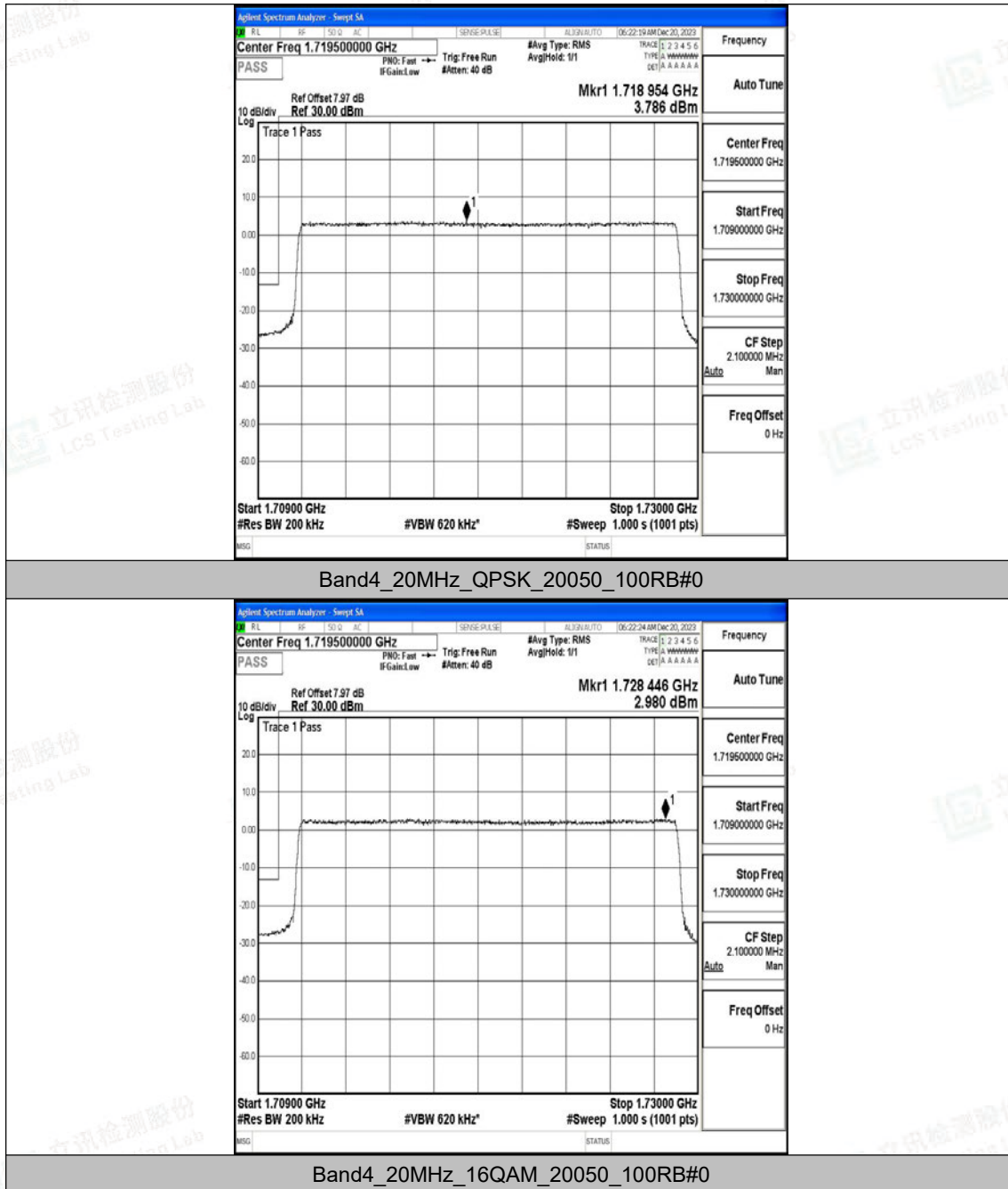


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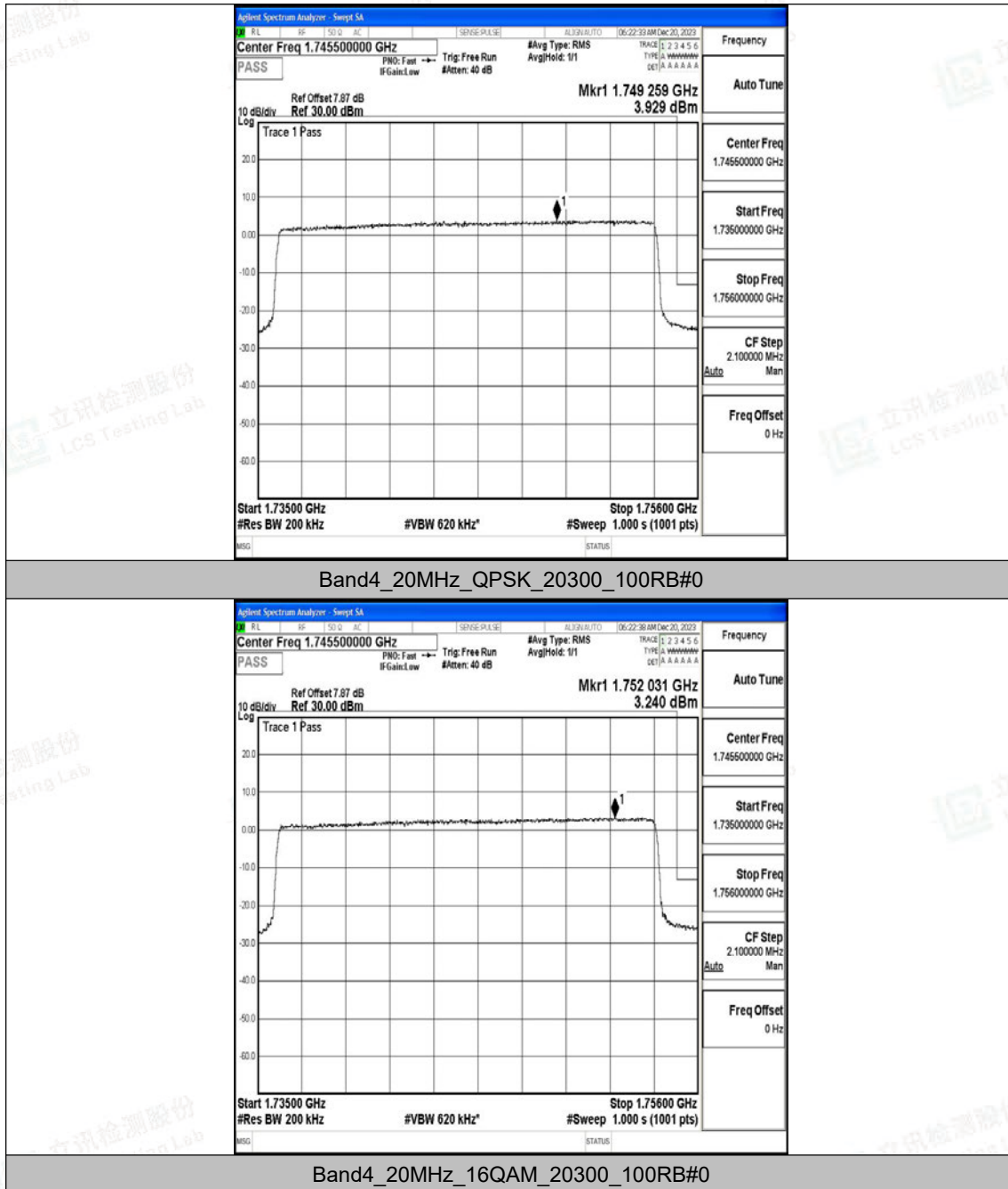


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B.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	0.009~0.15	-55.78	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	0.15~30	-54.15	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	30~1000	-62.20	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	1000~3000	-20.40	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	3000~20000	-32.95	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	0.009~0.15	-54.35	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	0.15~30	-50.92	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	30~1000	-62.34	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	1000~3000	-19.57	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	3000~20000	-33.30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	0.009~0.15	-57.32	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	0.15~30	-53.29	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	30~1000	-62.47	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	1000~3000	-21.51	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	3000~20000	-32.92	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	0.009~0.15	-57.91	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	0.15~30	-51.18	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	30~1000	-62.24	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	1000~3000	-24.82	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	3000~20000	-33.35	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	0.009~0.15	-60.26	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	0.15~30	-51.68	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	30~1000	-62.31	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	1000~3000	-19.85	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3000~20000	-32.97	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	0.009~0.15	-57.39	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	0.15~30	-50.12	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	30~1000	-62.08	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	1000~3000	-21.25	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	3000~20000	-33.30	PASS
Band4	3MHz	QPSK	19965	1RB#0	0.009~0.15	-56.72	PASS
Band4	3MHz	QPSK	19965	1RB#0	0.15~30	-52.15	PASS
Band4	3MHz	QPSK	19965	1RB#0	30~1000	-62.05	PASS
Band4	3MHz	QPSK	19965	1RB#0	1000~3000	-26.81	PASS
Band4	3MHz	QPSK	19965	1RB#0	3000~20000	-33.09	PASS



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