



Appendix E: Test Data for E-UTRA Band 4

Product Name: Smart POS

Test Model: WIZARPOS Q3B

Environmental Conditions

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



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E.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.47	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.64	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.49	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.59	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.58	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.09	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.47	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.54	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.48	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.53	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.46	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.53	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.67	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.06	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.32	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.21	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.15	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.21	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.22	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.16	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.19	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.29	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.17	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.25	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.29	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.24	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.37	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.78	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.46	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.50	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.27	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.52	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.31	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.48	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.26	PASS



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Band4	1.4MHz	QPSK	20393	3RB#1	22.50	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.27	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.47	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.25	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.65	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.01	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.37	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.86	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.48	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.83	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.42	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.76	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.72	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.12	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.75	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.12	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.69	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.08	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.67	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.09	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.29	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.24	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.21	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.28	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.16	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.46	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.90	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.33	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.90	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.36	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.88	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.40	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.66	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.26	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.55	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.33	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.61	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.35	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.42	PASS



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Band4	3MHz	QPSK	20385	8RB#0	21.71	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.96	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.65	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.06	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.67	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.64	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.85	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.57	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.33	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.48	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.26	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.42	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.36	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.75	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.02	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.75	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.03	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.67	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.01	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.71	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.09	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.16	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.92	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.10	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.89	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.10	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.83	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.45	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.87	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.45	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.81	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.43	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.82	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.45	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.85	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.28	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.06	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.32	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.18	PASS



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Band4	5MHz	QPSK	20375	1RB#24	22.33	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.18	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.63	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.94	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.64	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.95	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.74	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.88	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.69	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.02	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.36	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.92	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.33	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.85	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.29	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.83	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.70	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.01	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.72	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.01	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.64	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.91	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.66	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.25	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.66	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.18	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.61	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.15	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.57	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.41	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.94	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.46	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.96	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.46	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.94	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.49	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.83	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.37	PASS



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Band4	10MHz	QPSK	20350	1RB#24	22.08	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.41	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.18	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.51	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.54	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.82	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.55	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.81	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.66	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.83	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.64	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.85	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.41	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.91	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.34	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.83	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.18	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.73	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.59	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.64	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.76	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.66	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.68	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.64	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.94	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.95	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.82	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.95	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.77	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.84	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.67	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.46	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.43	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.43	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.43	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.42	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.45	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.40	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.79	PASS



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Band4	15MHz	QPSK	20325	1RB#0	22.05	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.36	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.09	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.36	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.26	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.46	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.65	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.64	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.63	PASS
Band4	15MHz	16QAM	20325	38RB#18	21.64	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.64	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.64	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.64	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.81	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.87	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.73	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.77	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.63	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.58	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.44	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.66	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.10	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.70	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.12	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.52	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.83	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.66	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.88	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.31	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.21	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.16	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.04	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.21	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.88	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.45	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.84	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.51	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.89	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.43	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.76	PASS



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Band4	20MHz	QPSK	20175	100RB#0	21.49	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.92	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.57	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.08	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.54	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.15	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.78	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.29	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.53	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.87	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.41	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.87	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.64	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.94	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.53	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.83	PASS





E.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	4.06	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	4.68	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.55	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.10	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	3.97	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	4.56	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.07	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	4.69	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.59	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.18	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	3.86	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	4.64	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.14	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.77	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.57	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.11	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	3.83	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.52	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.34	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	4.97	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.59	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.18	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	3.88	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	4.57	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	4.86	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.34	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	4.96	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.38	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	4.35	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	4.88	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	4.90	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.53	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.87	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.53	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.54	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.12	13	PASS



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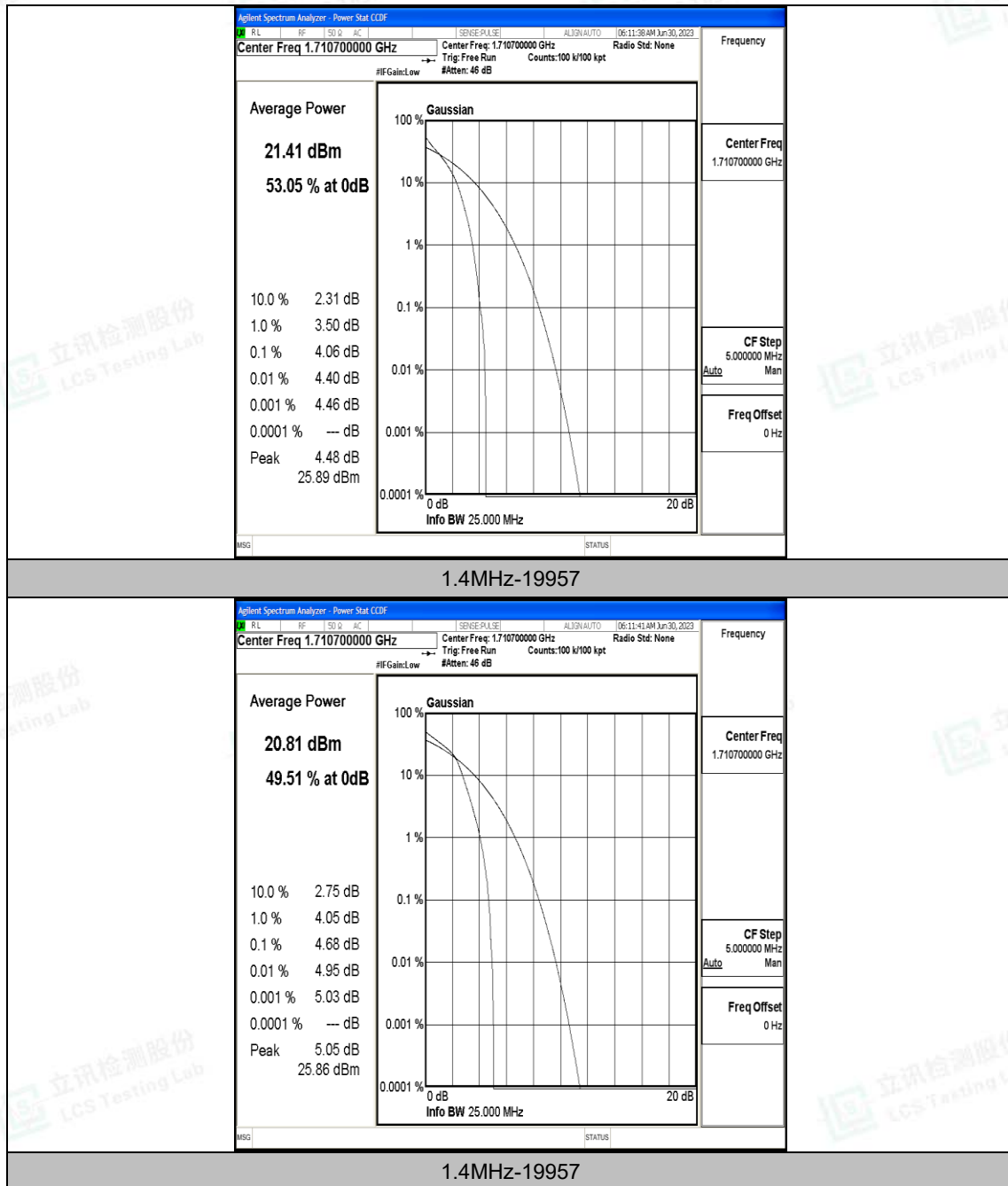
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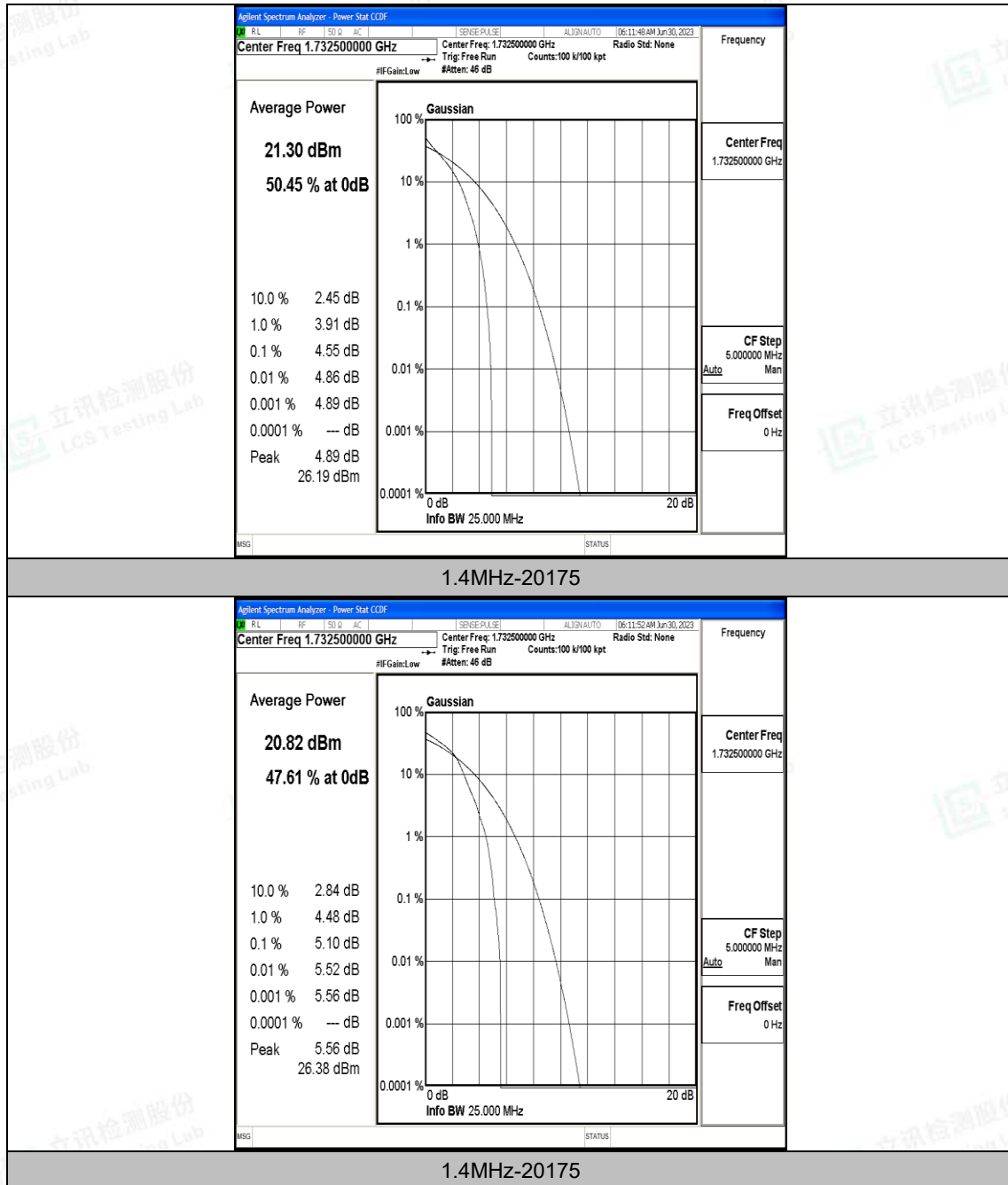
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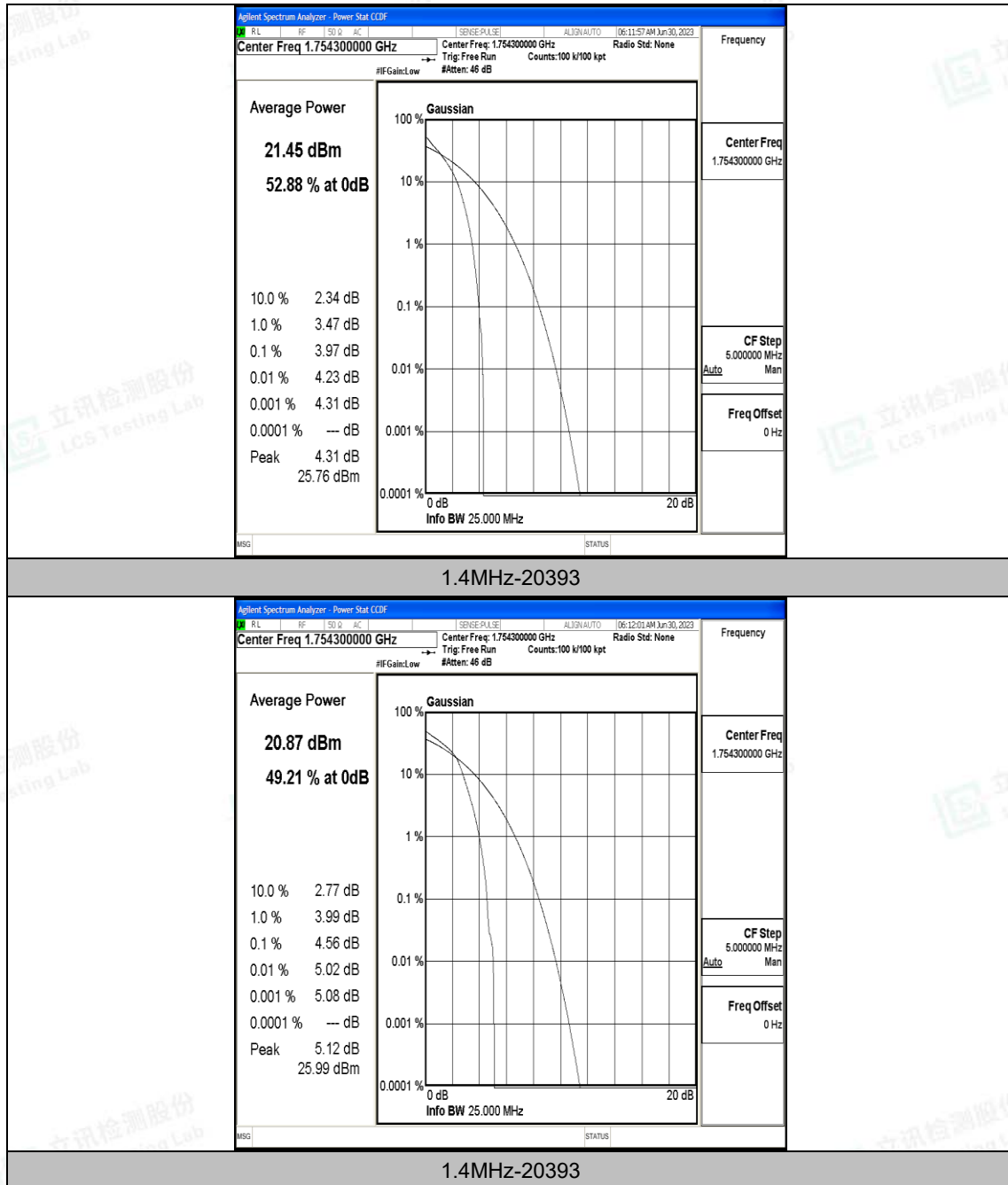
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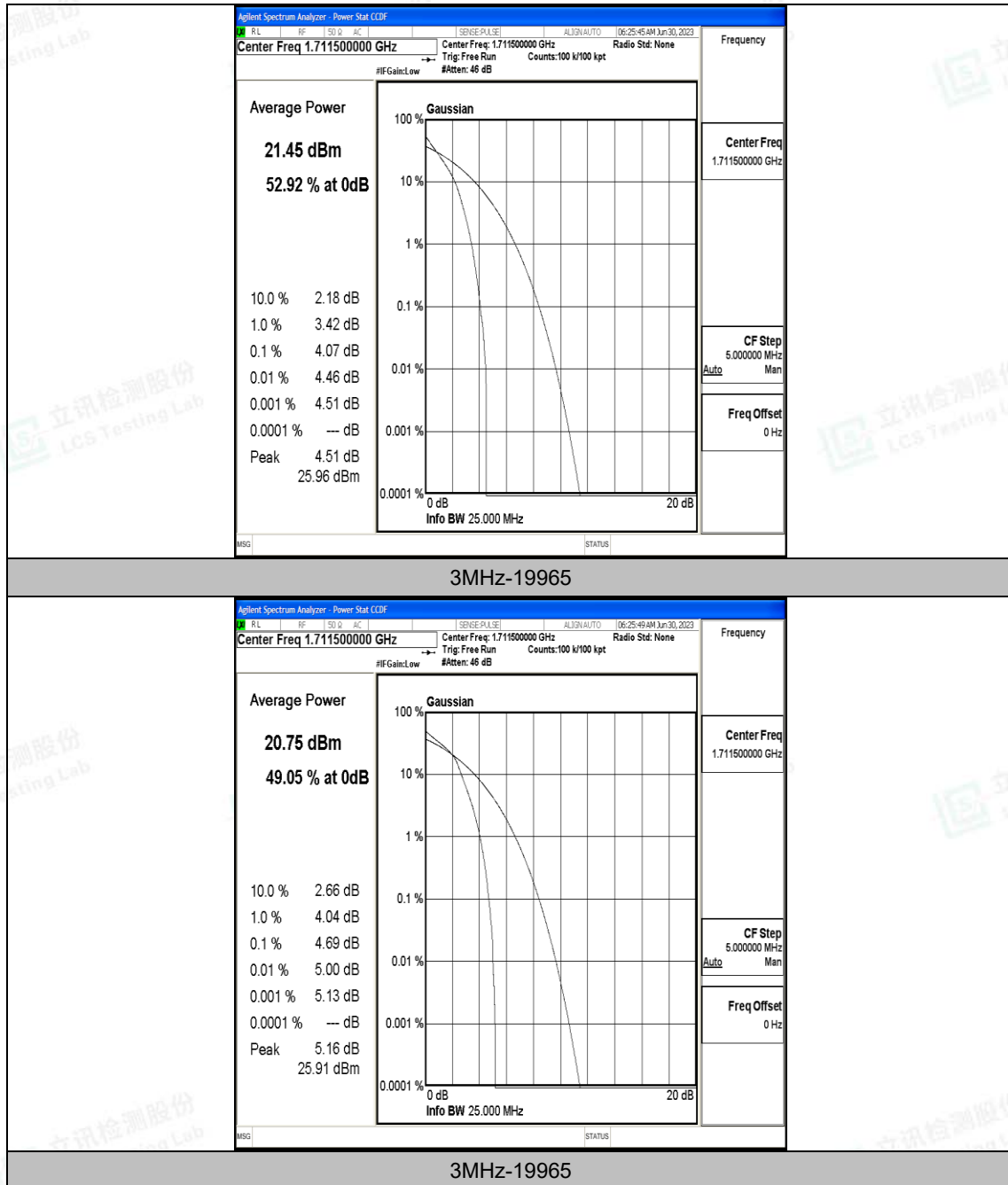


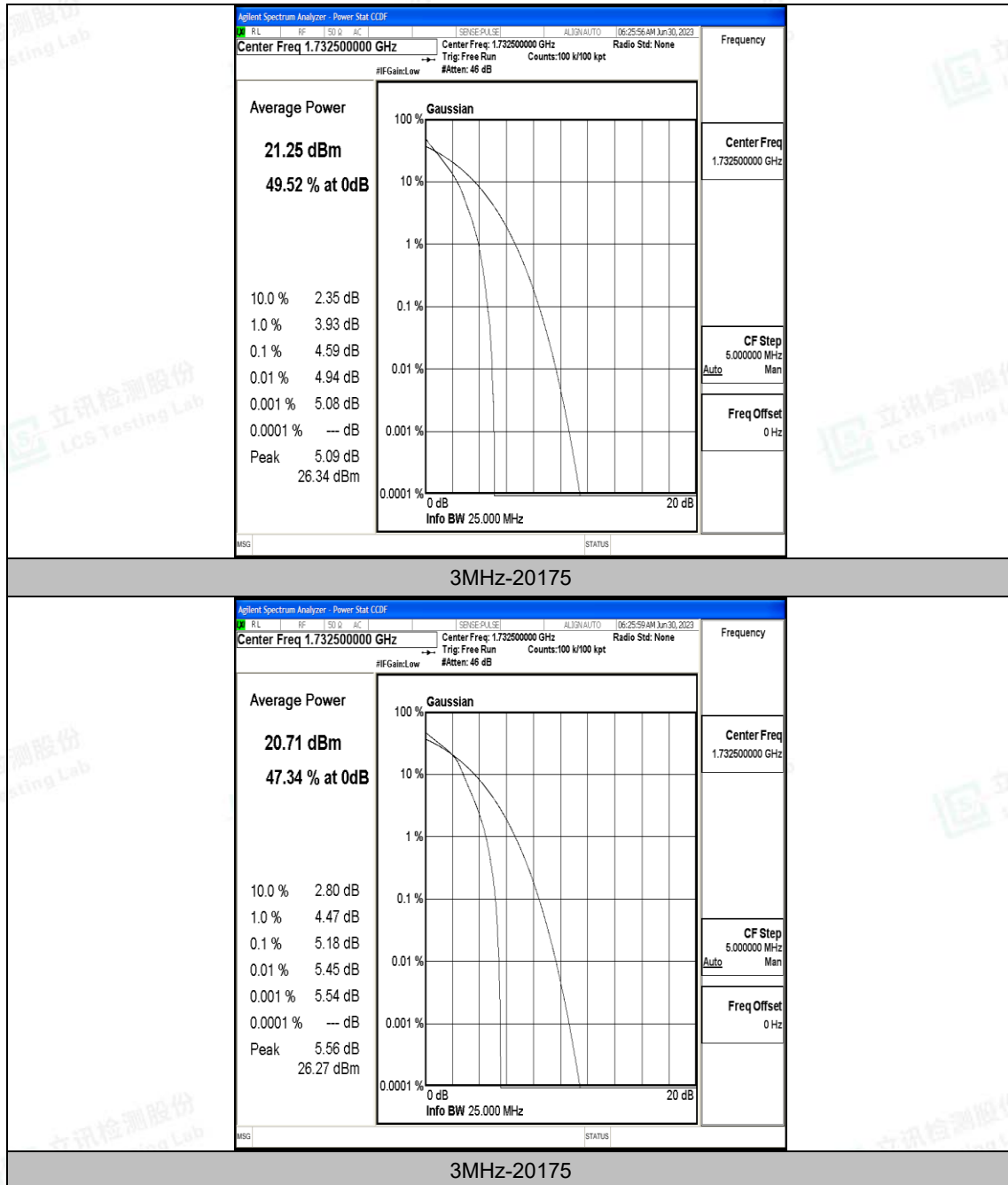
Test Graphs









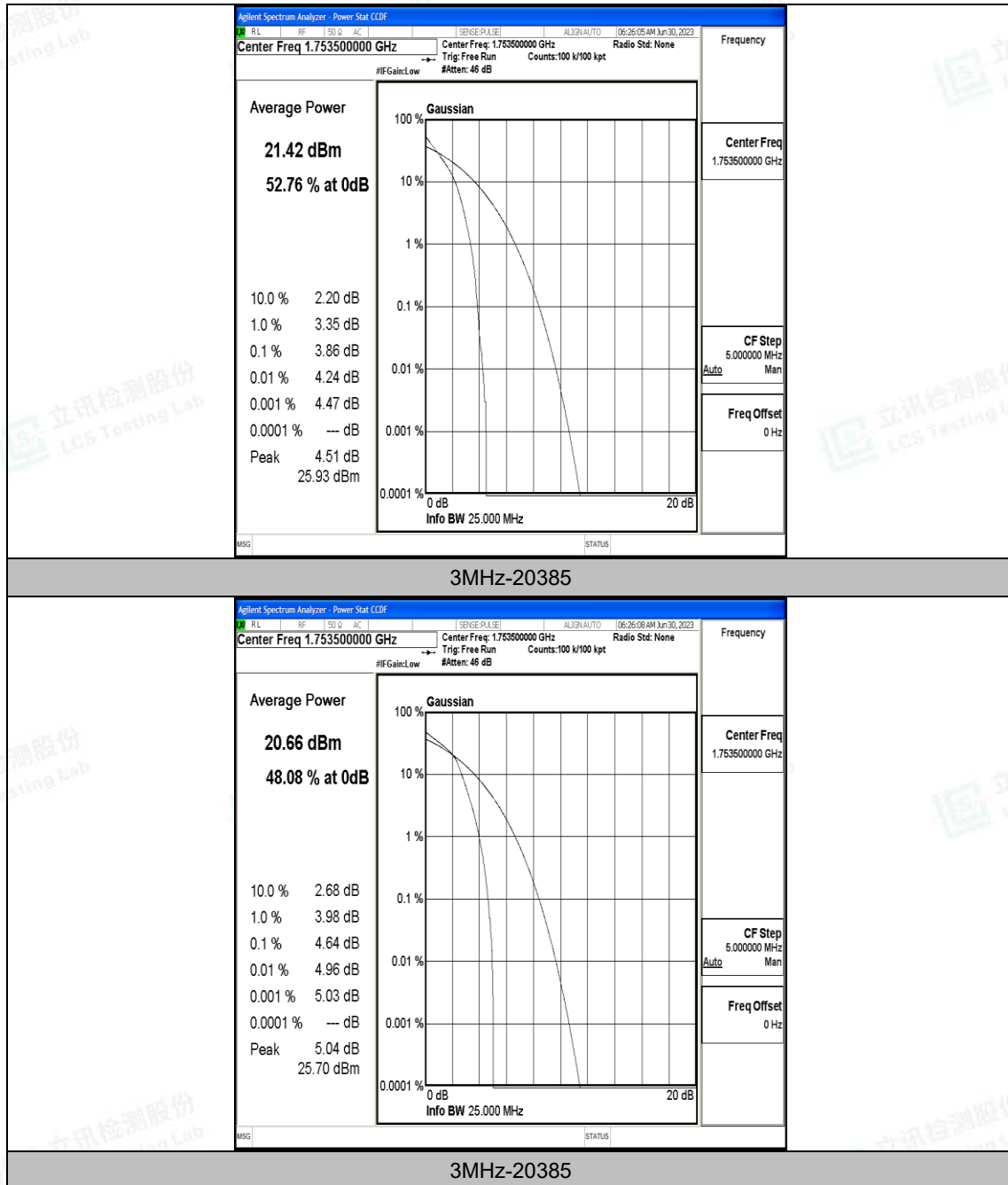


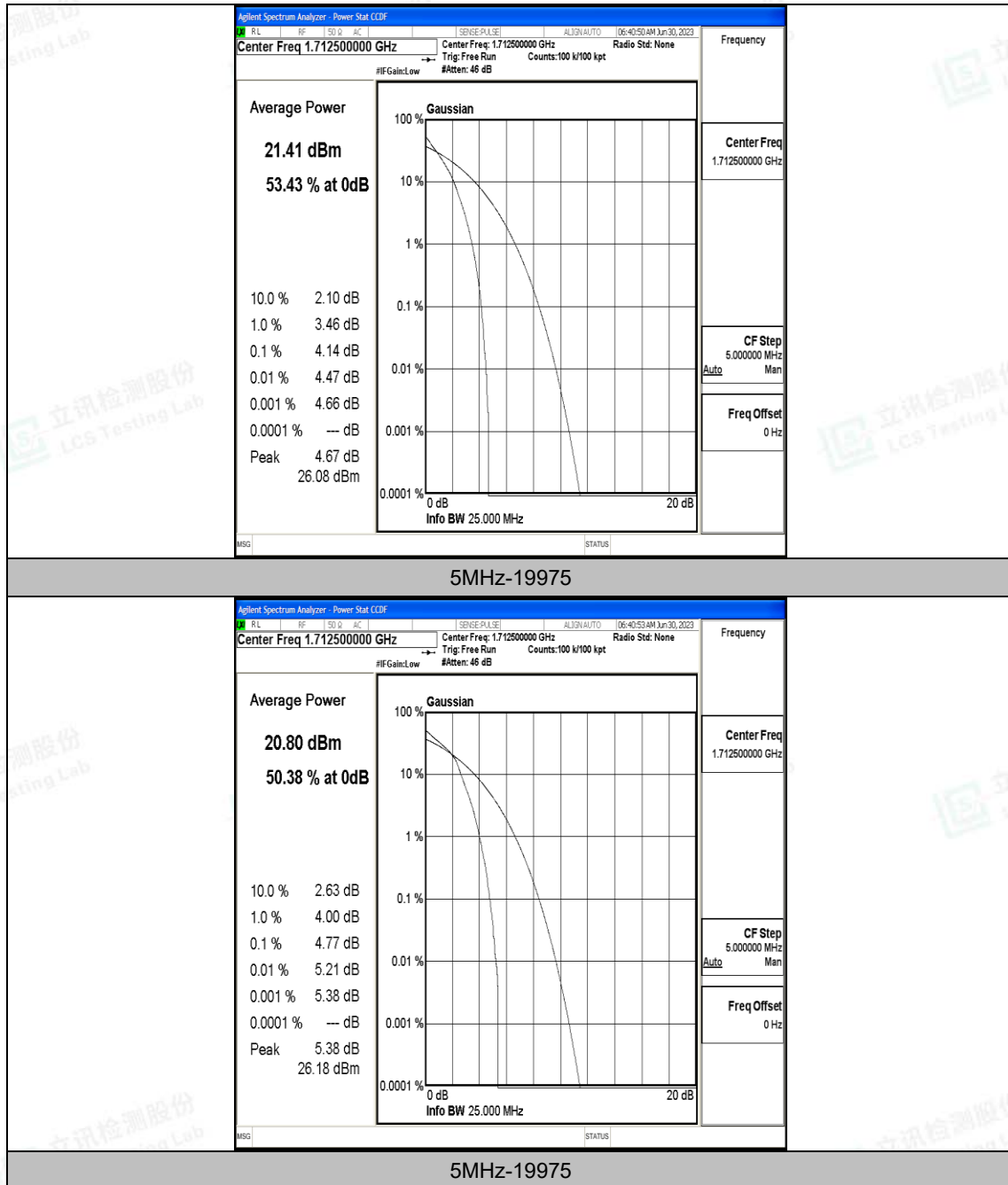
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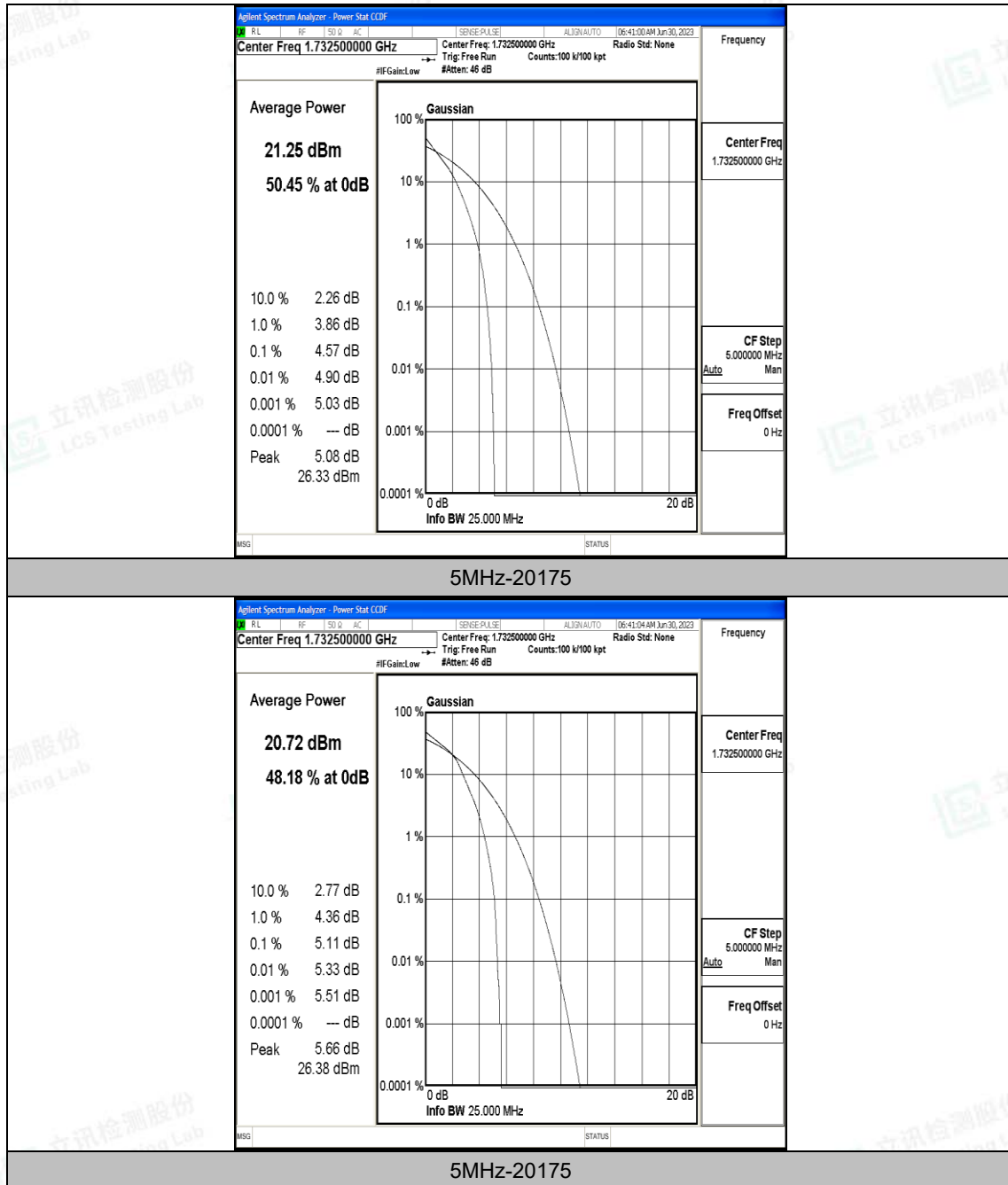


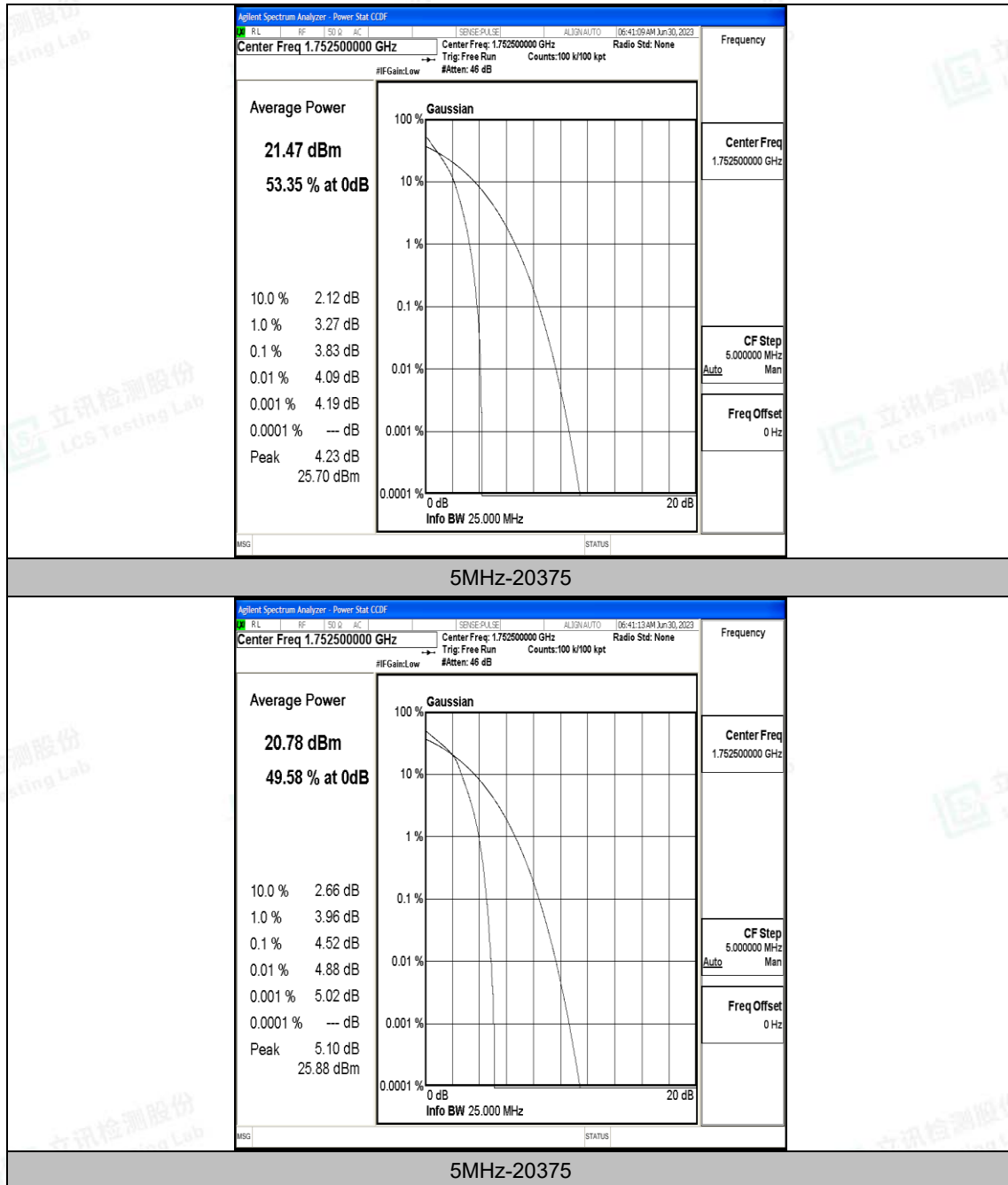
Shenzhen LCS Compliance Testing Laboratory Ltd.

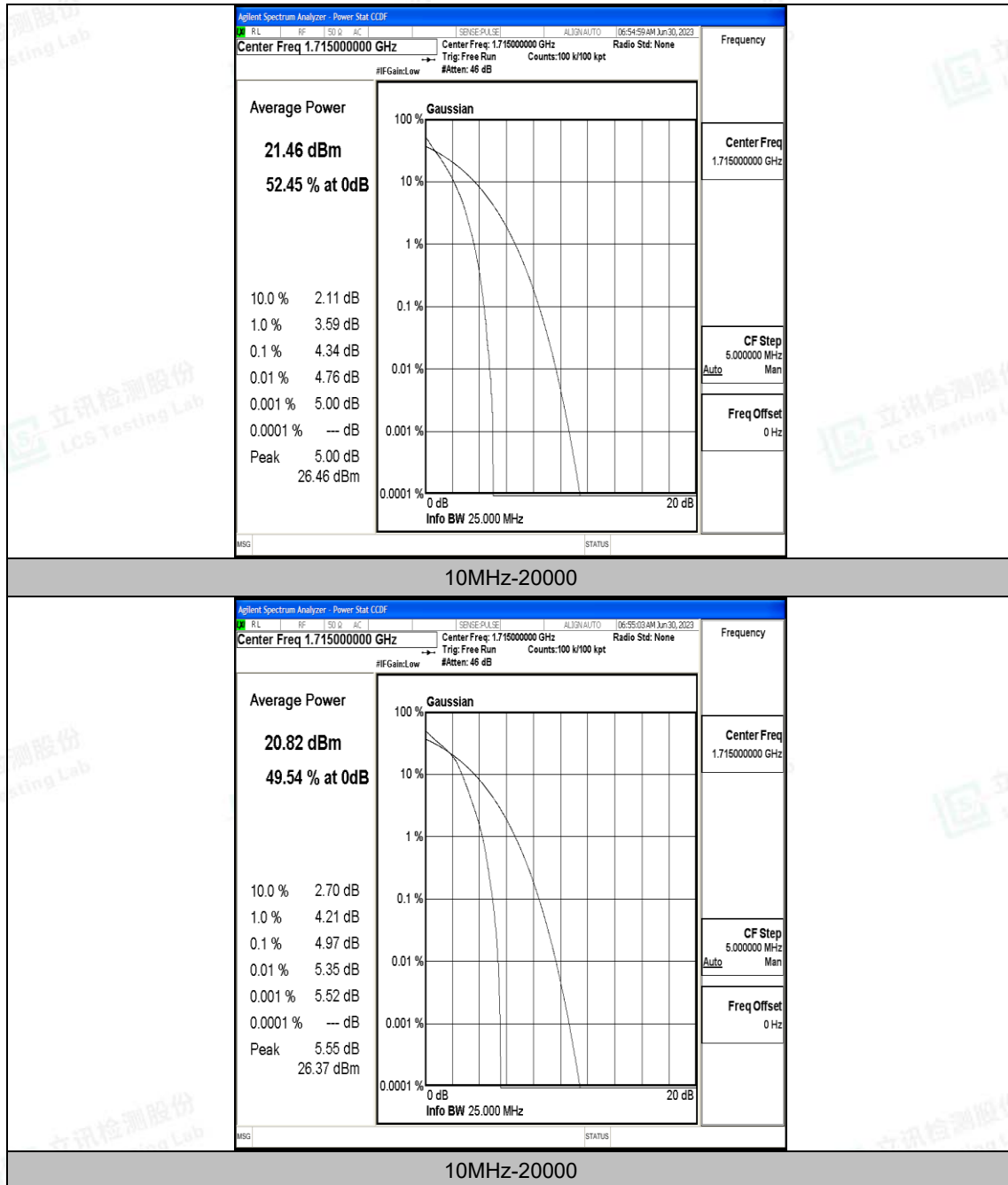
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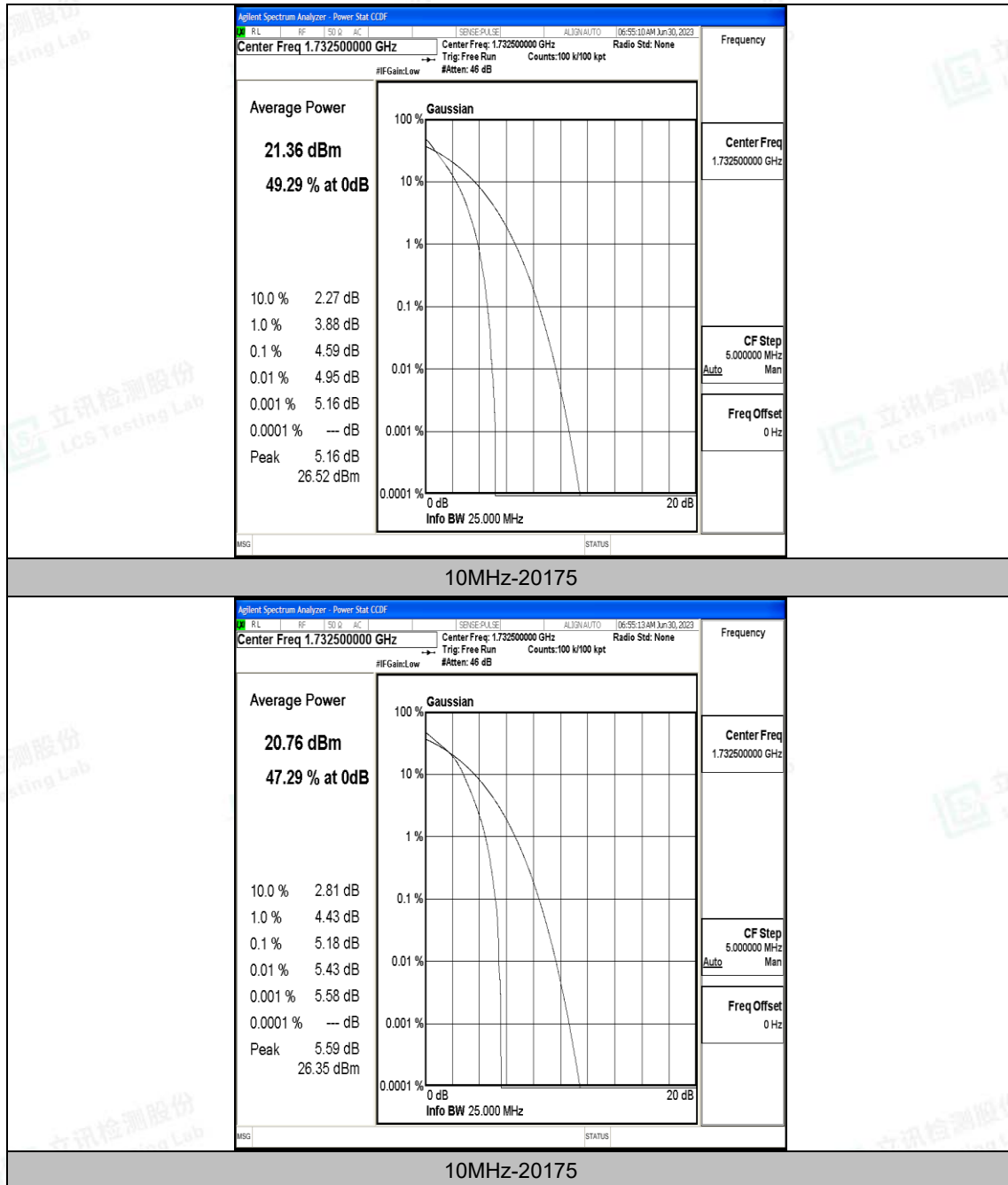
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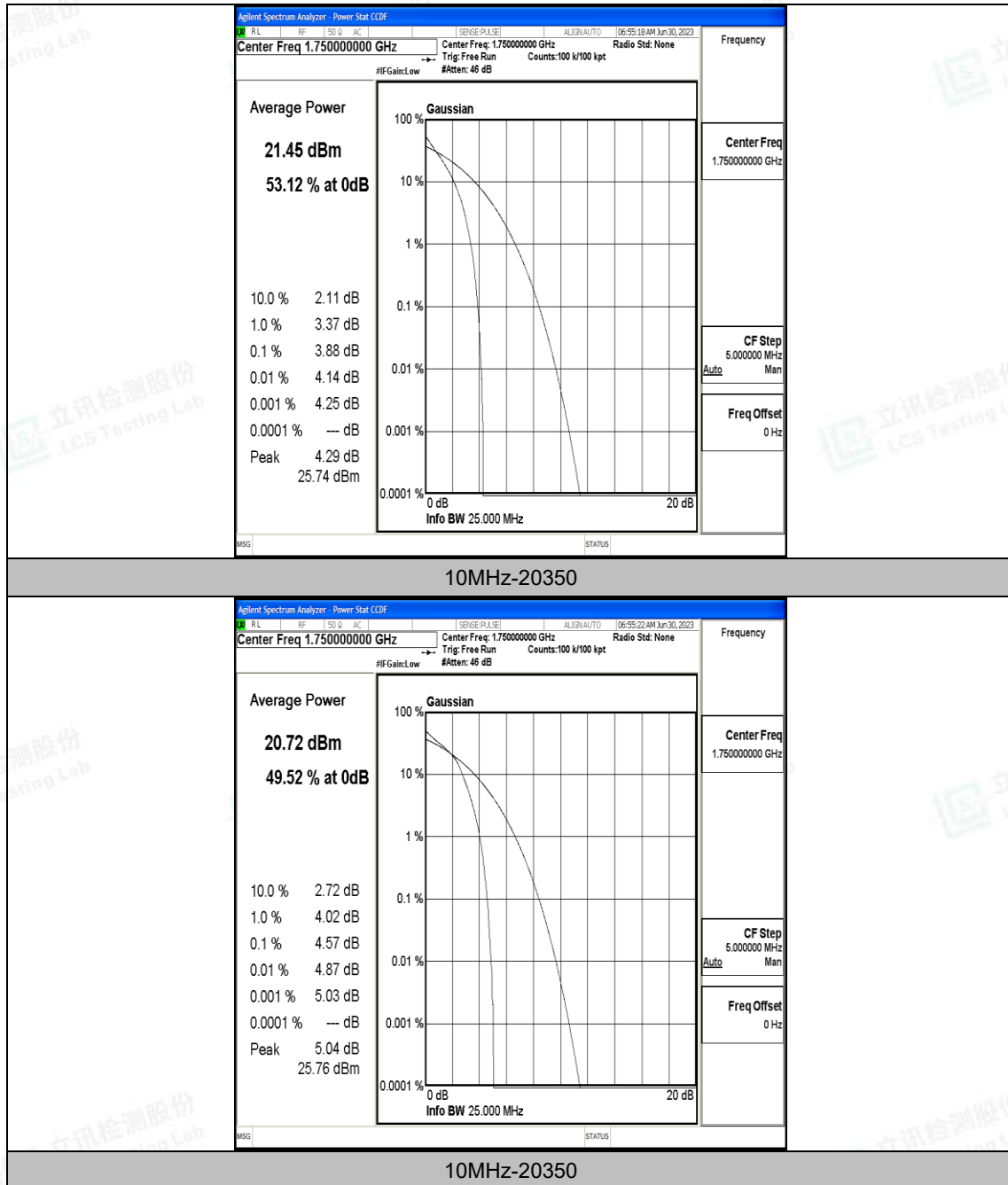
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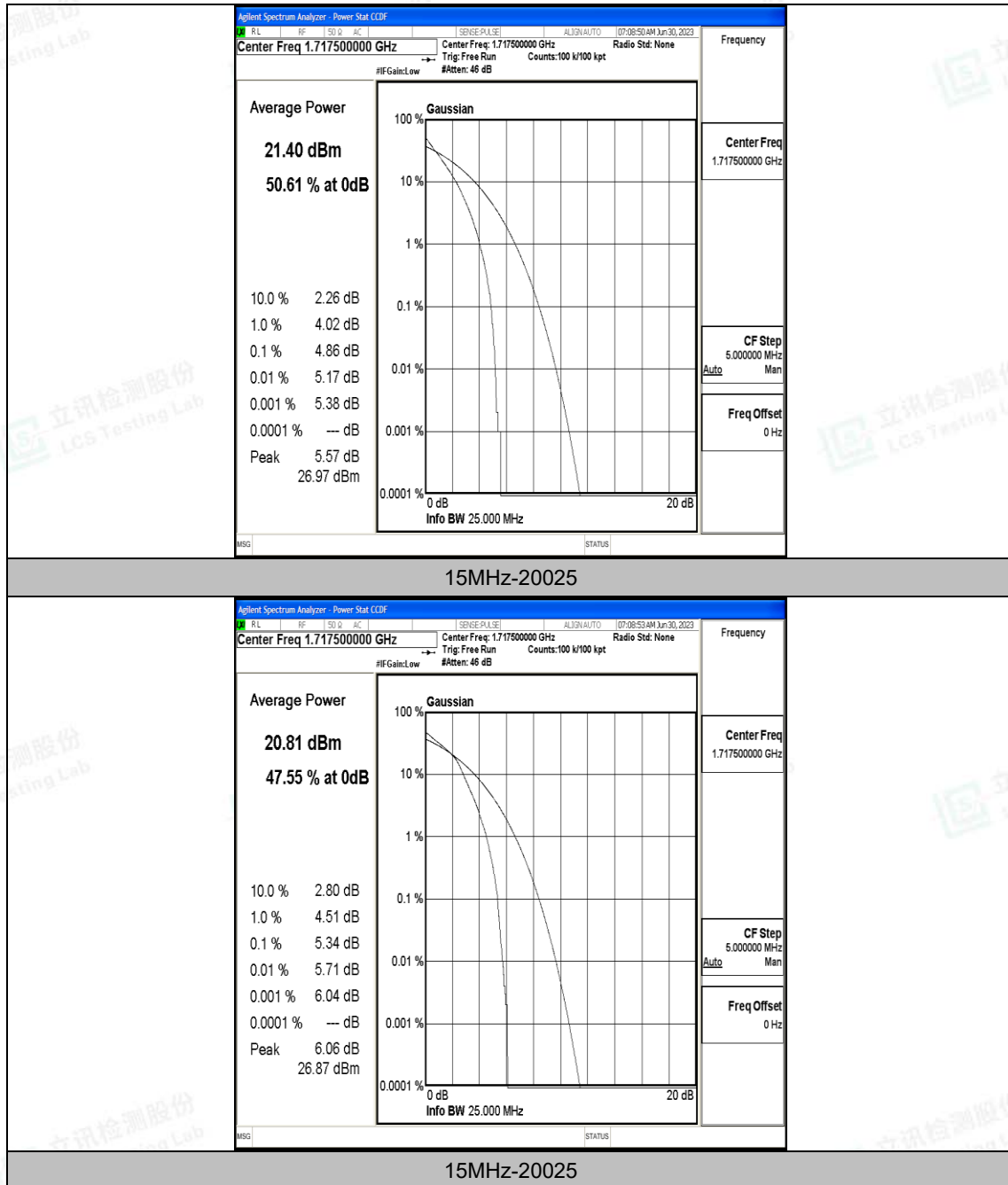


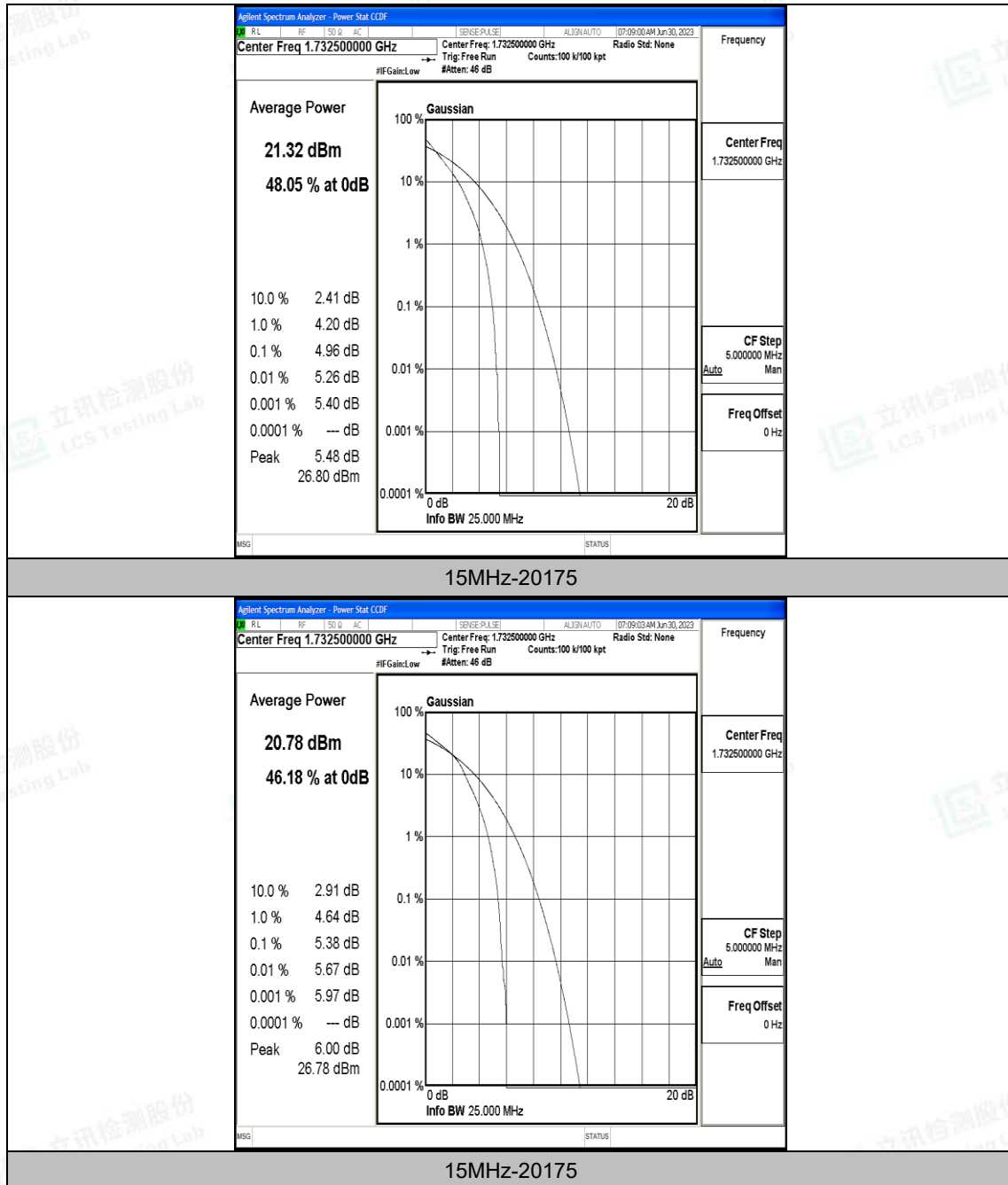


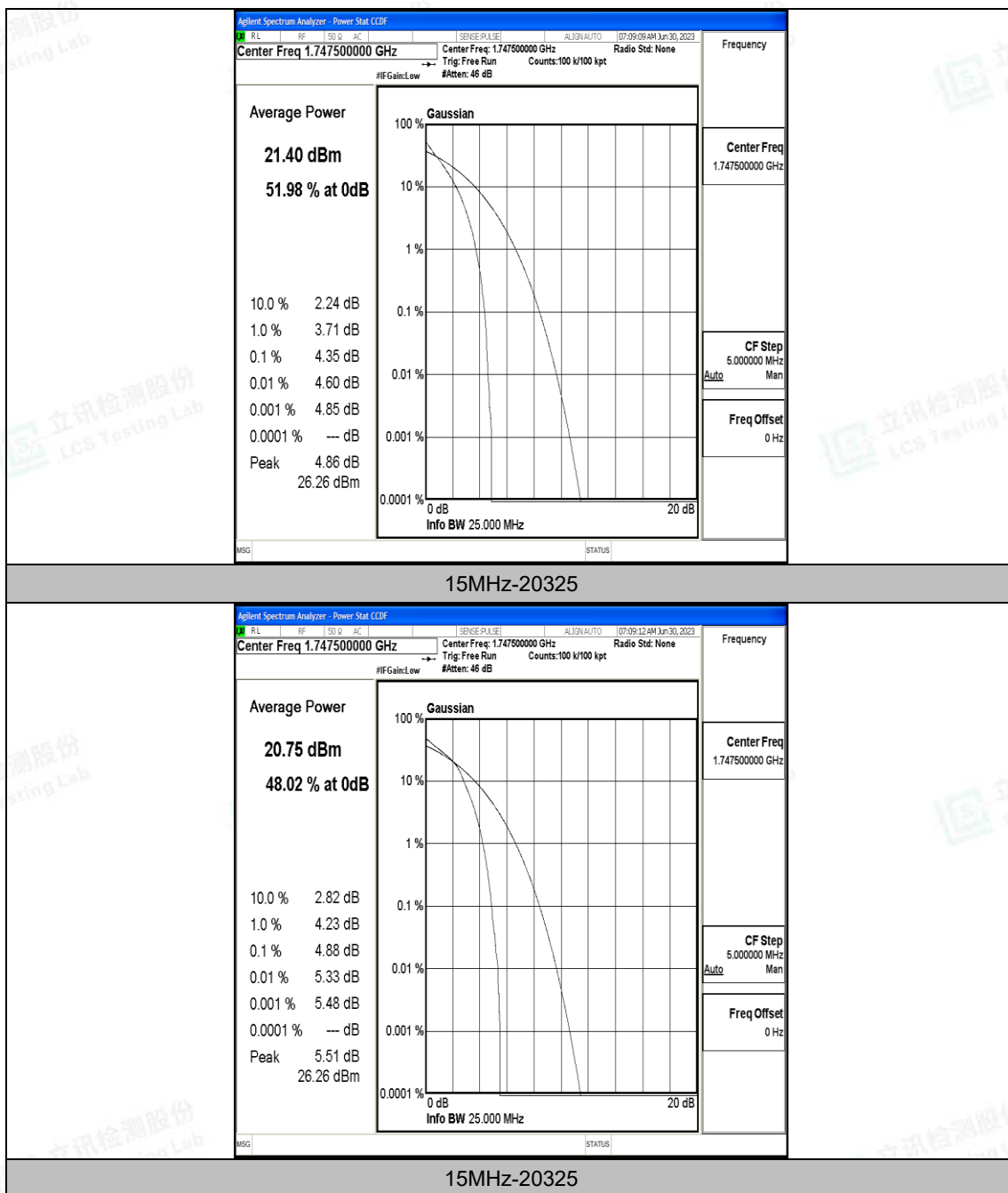










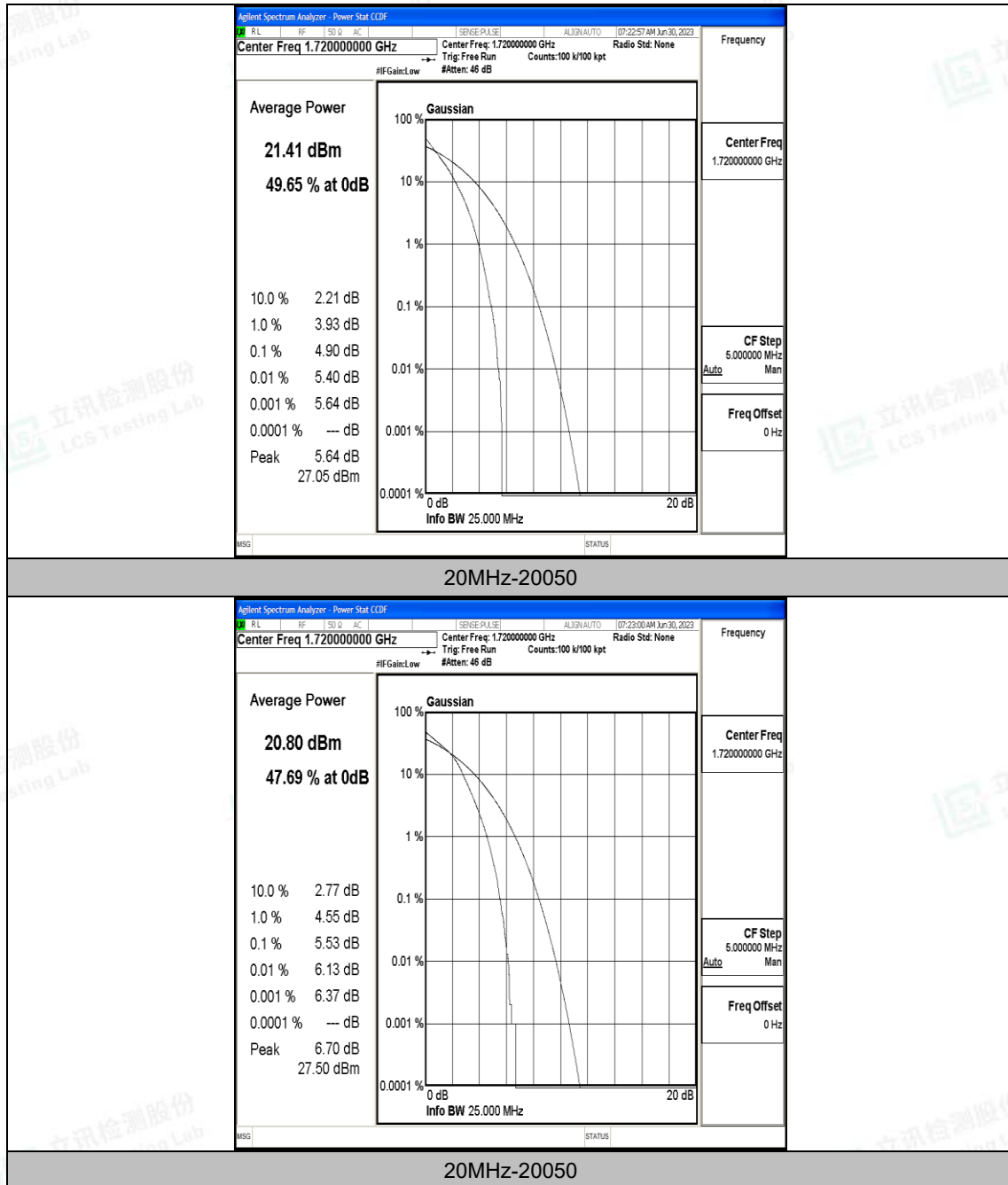


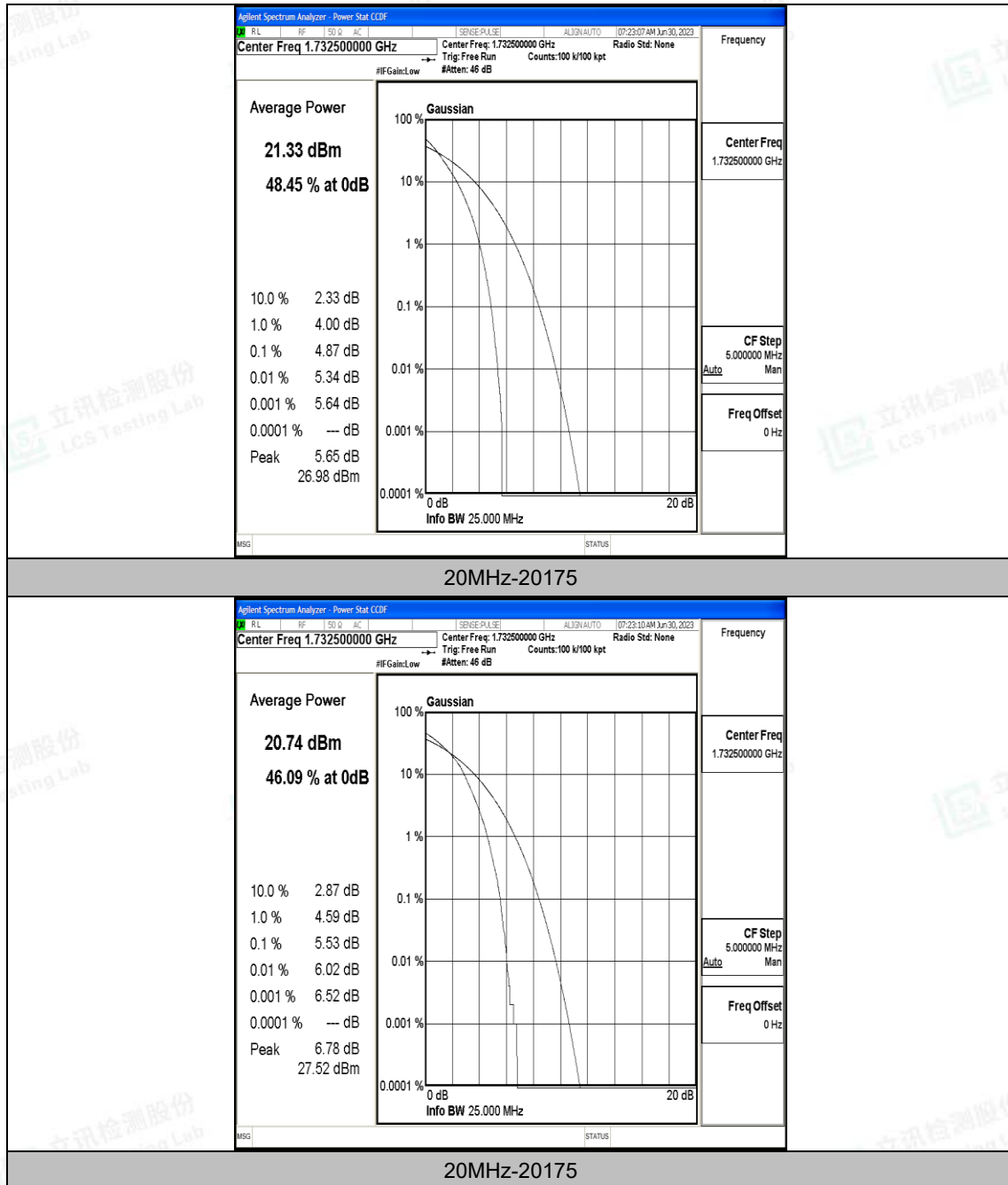
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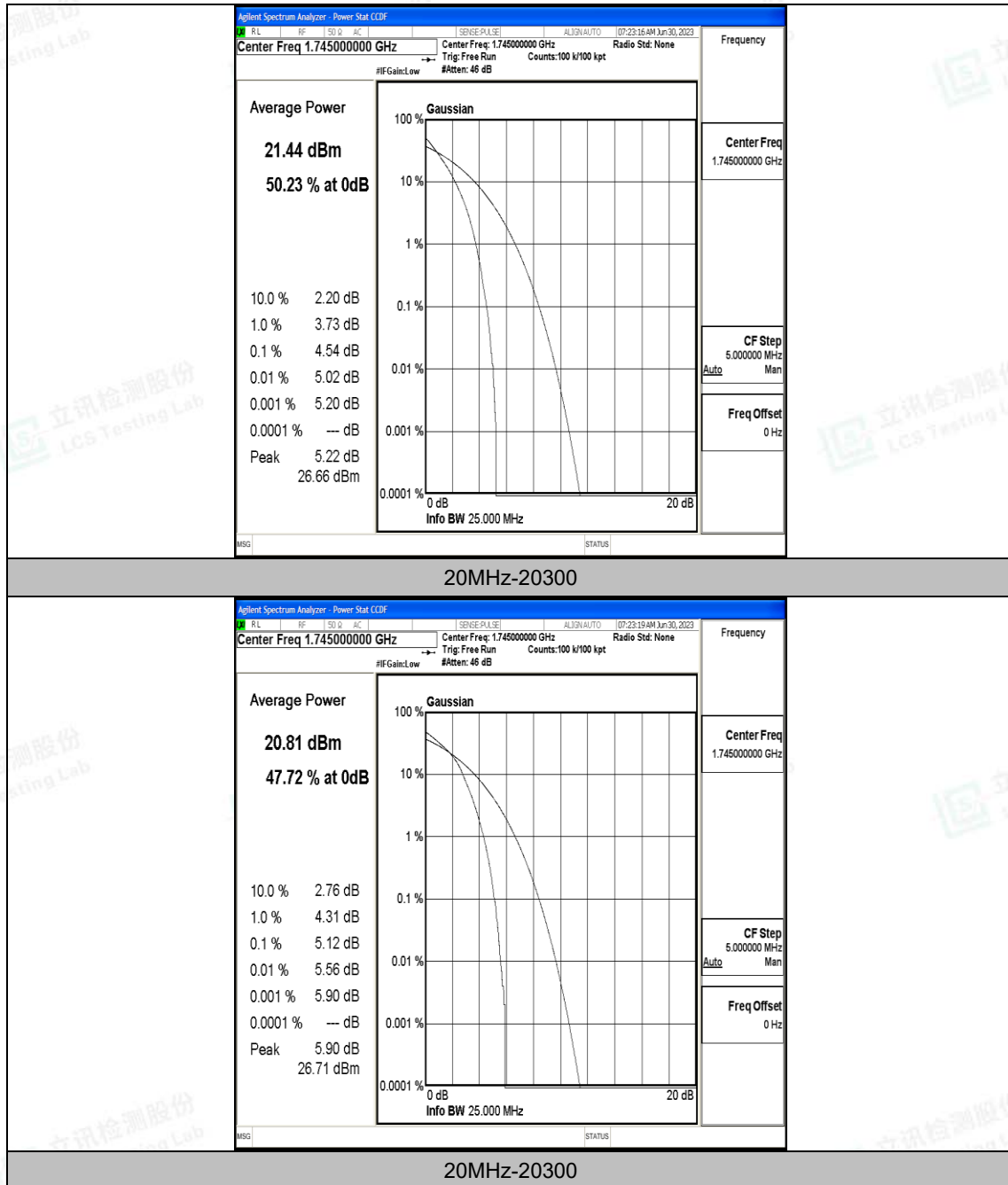
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E.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0988	1.376	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.1068	1.335	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0994	1.487	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1020	1.381	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.1020	1.329	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.1085	1.277	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.7081	3.110	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.7077	3.109	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7110	3.152	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.7093	3.086	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7144	3.130	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.7197	3.336	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5301	5.397	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5259	5.322	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5337	5.314	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5144	5.559	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5083	5.432	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5408	5.338	PASS
Band4	10MHz	QPSK	20000	50RB#0	9.0220	10.06	PASS
Band4	10MHz	16QAM	20000	50RB#0	9.0100	10.28	PASS
Band4	10MHz	QPSK	20175	50RB#0	9.0081	10.20	PASS
Band4	10MHz	16QAM	20175	50RB#0	9.0032	10.10	PASS
Band4	10MHz	QPSK	20350	50RB#0	9.0533	10.28	PASS
Band4	10MHz	16QAM	20350	50RB#0	9.0333	10.82	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.503	15.72	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.522	15.43	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.530	15.07	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.526	15.07	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.519	15.73	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.552	15.04	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.043	20.06	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.035	20.18	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.048	20.26	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.083	19.93	PASS



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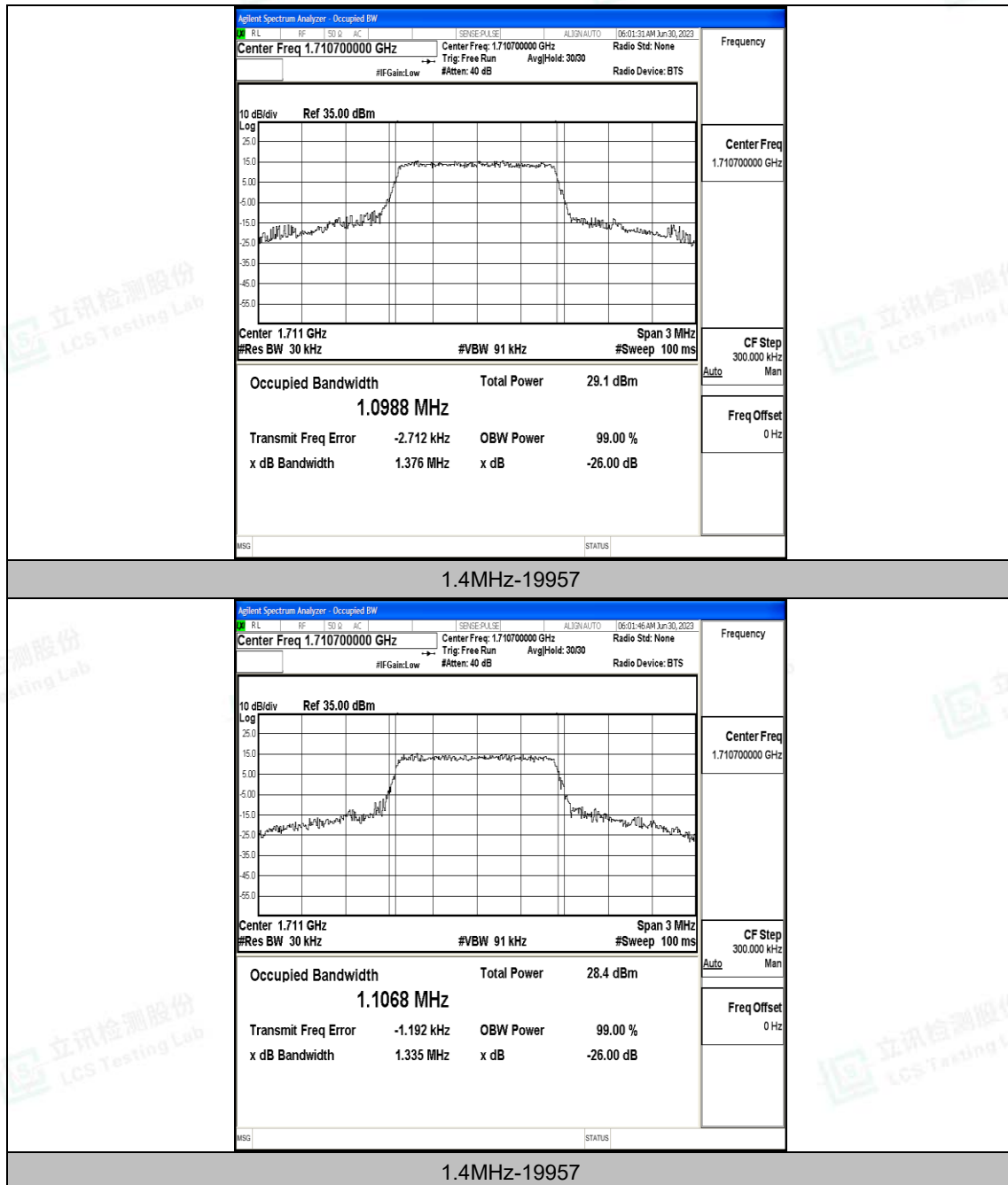
Band4	20MHz	QPSK	20300	100RB#0	18.026	20.59	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.053	20.31	PASS

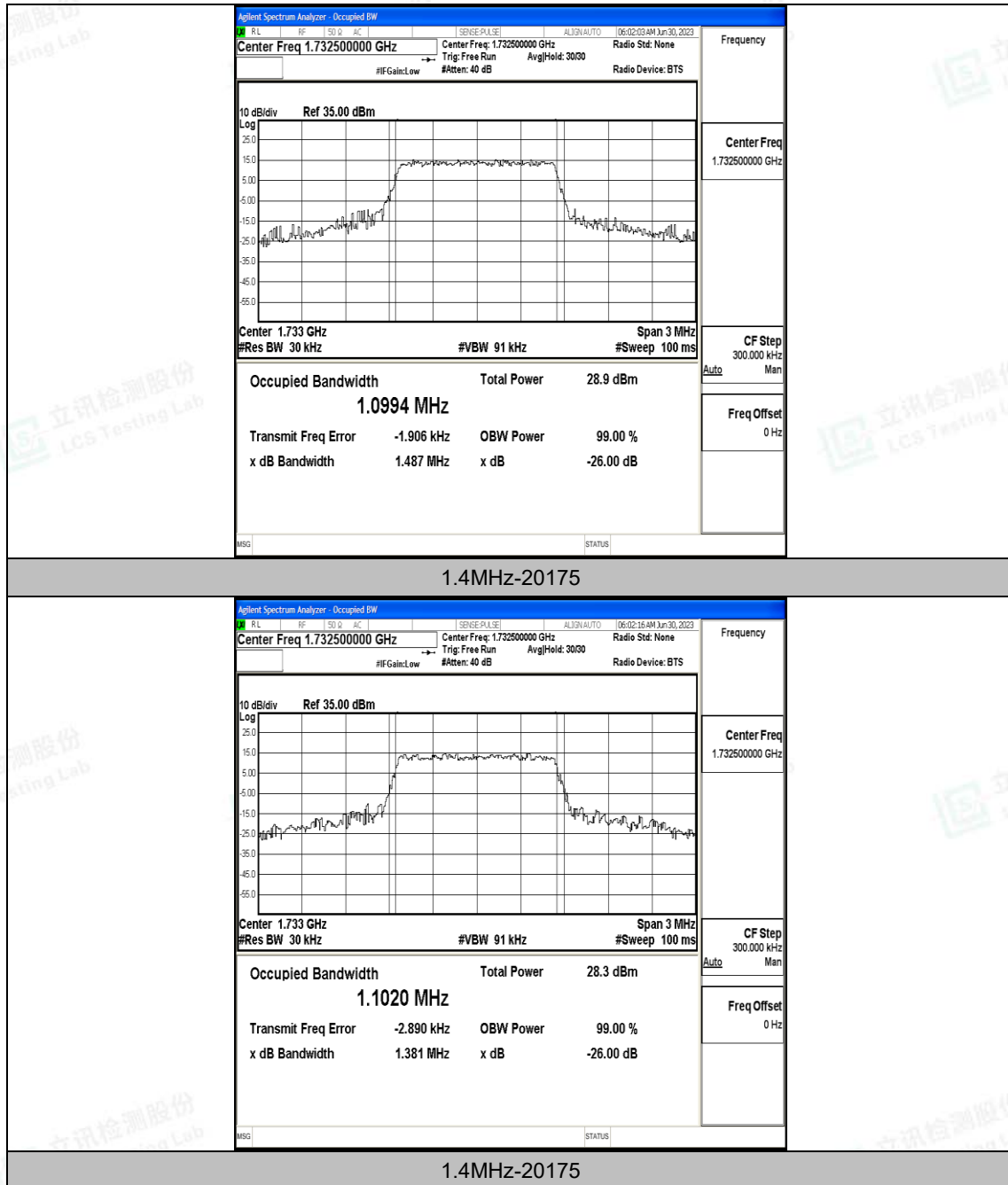


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Test Graphs



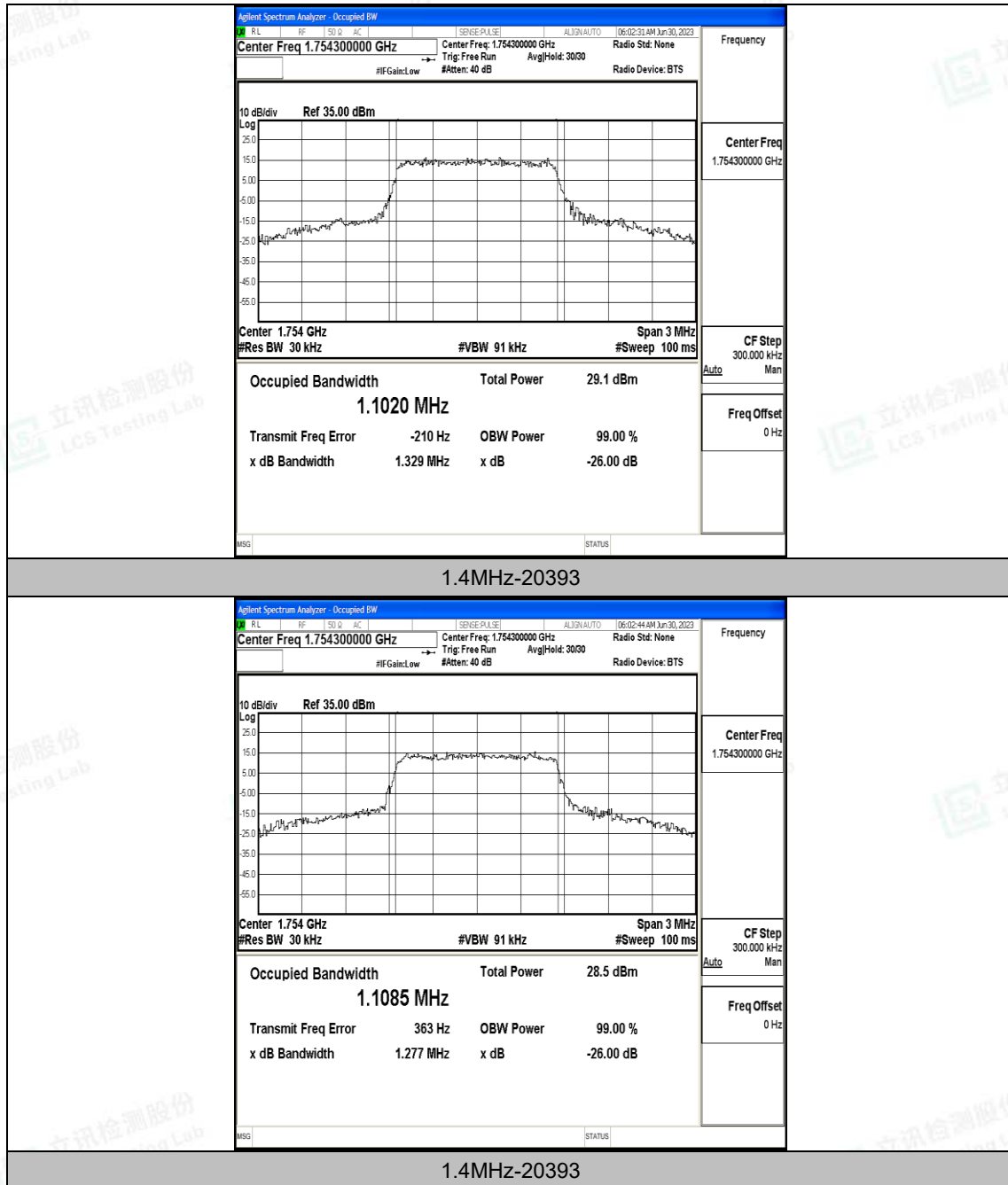


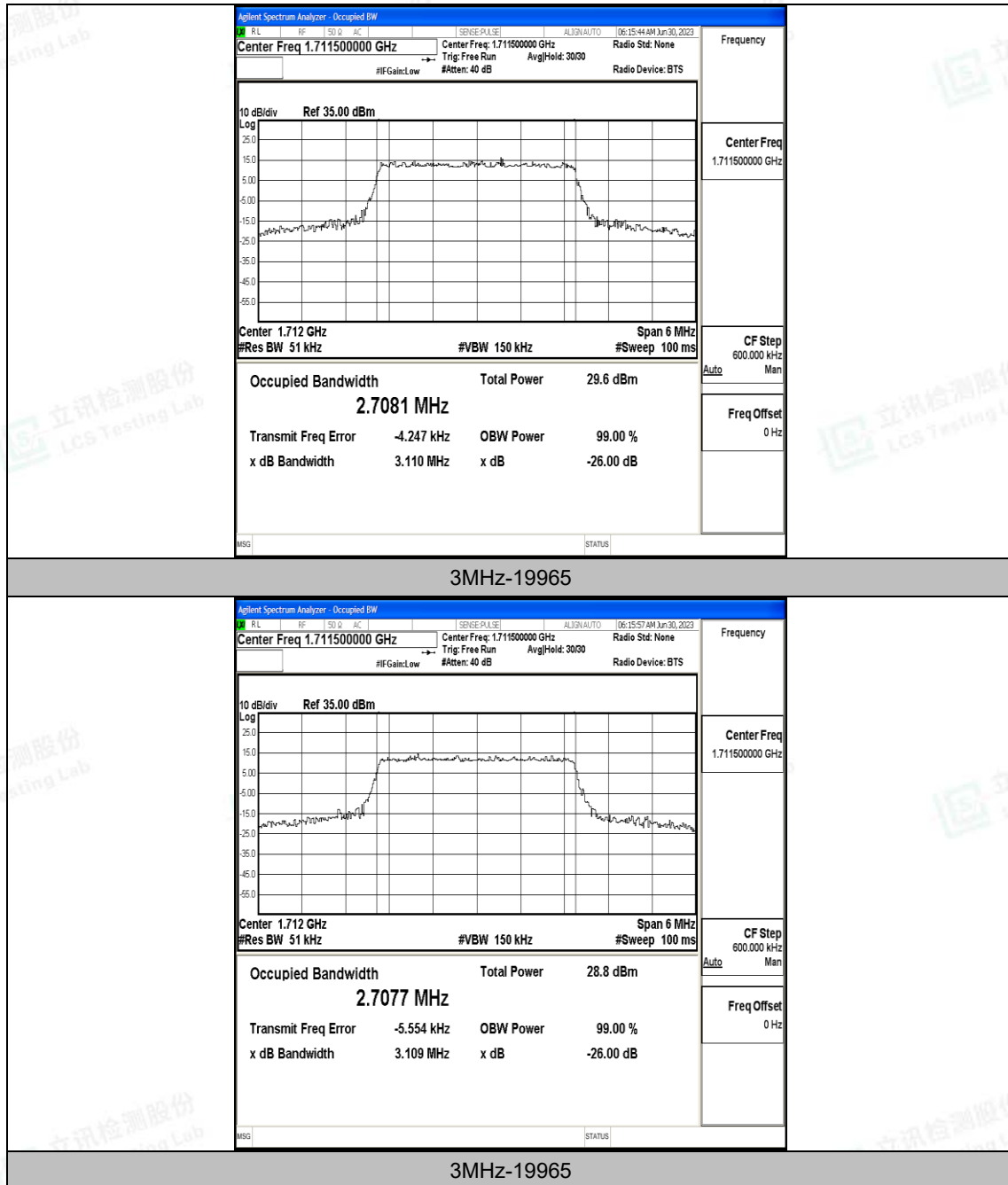
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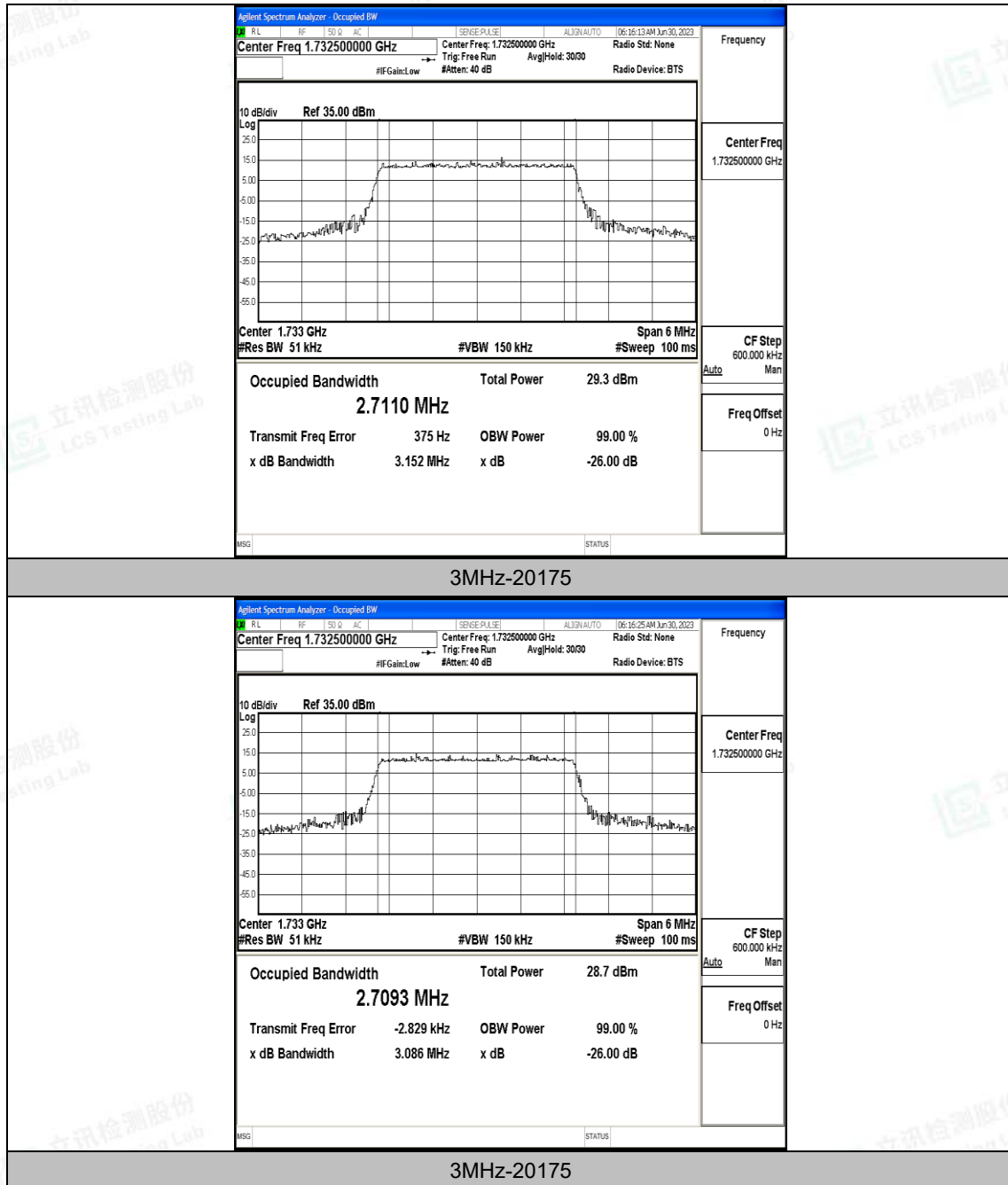


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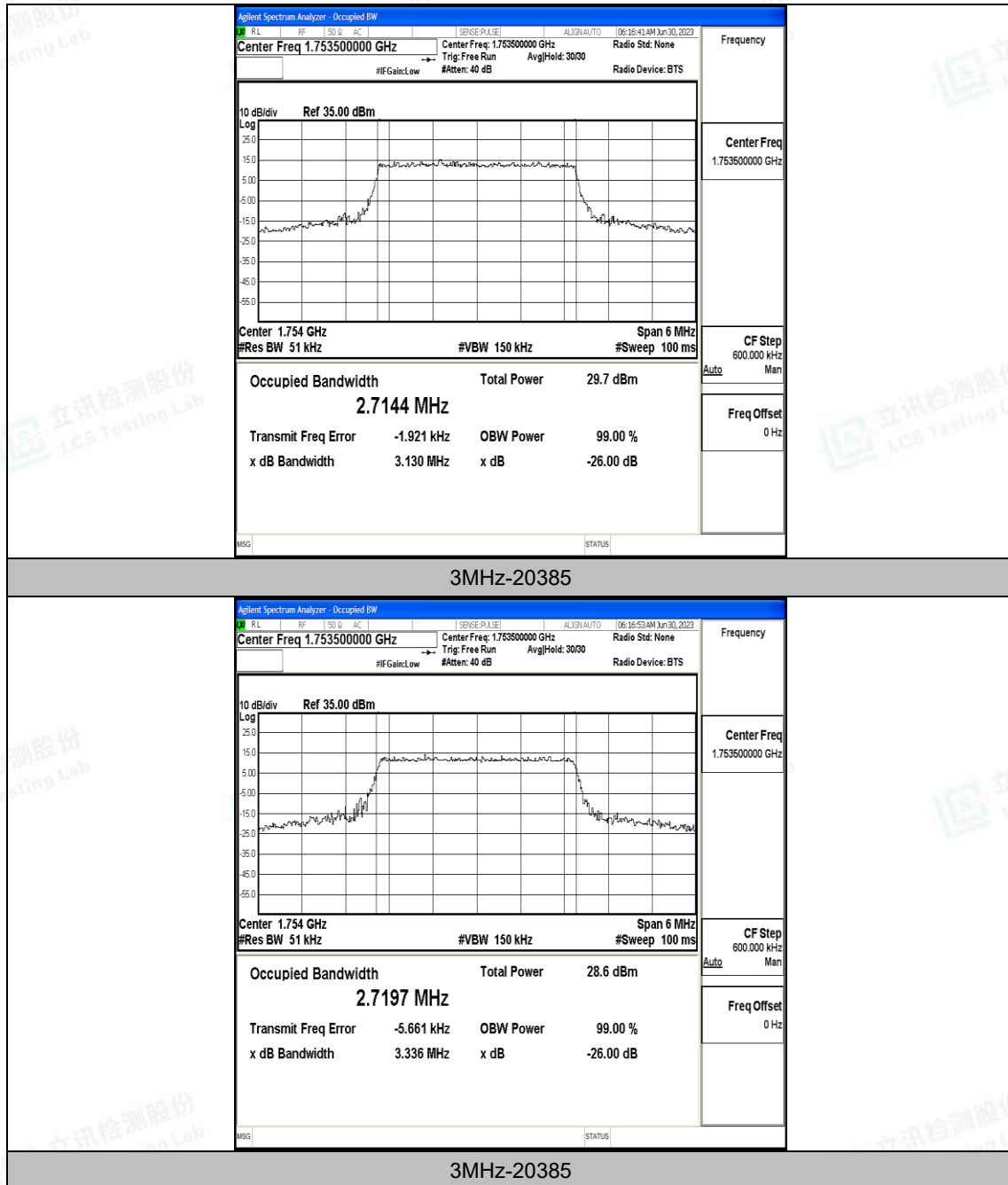


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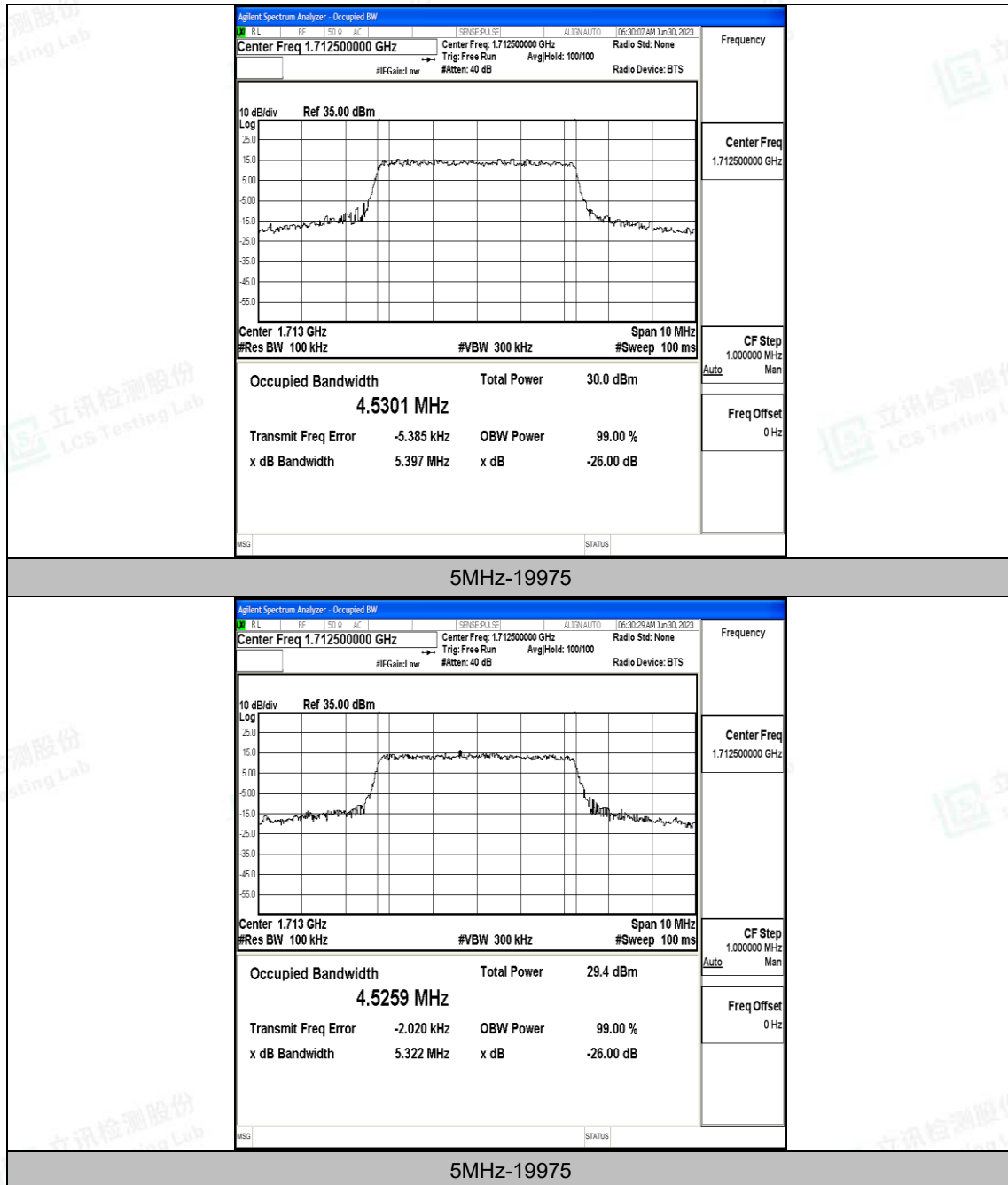


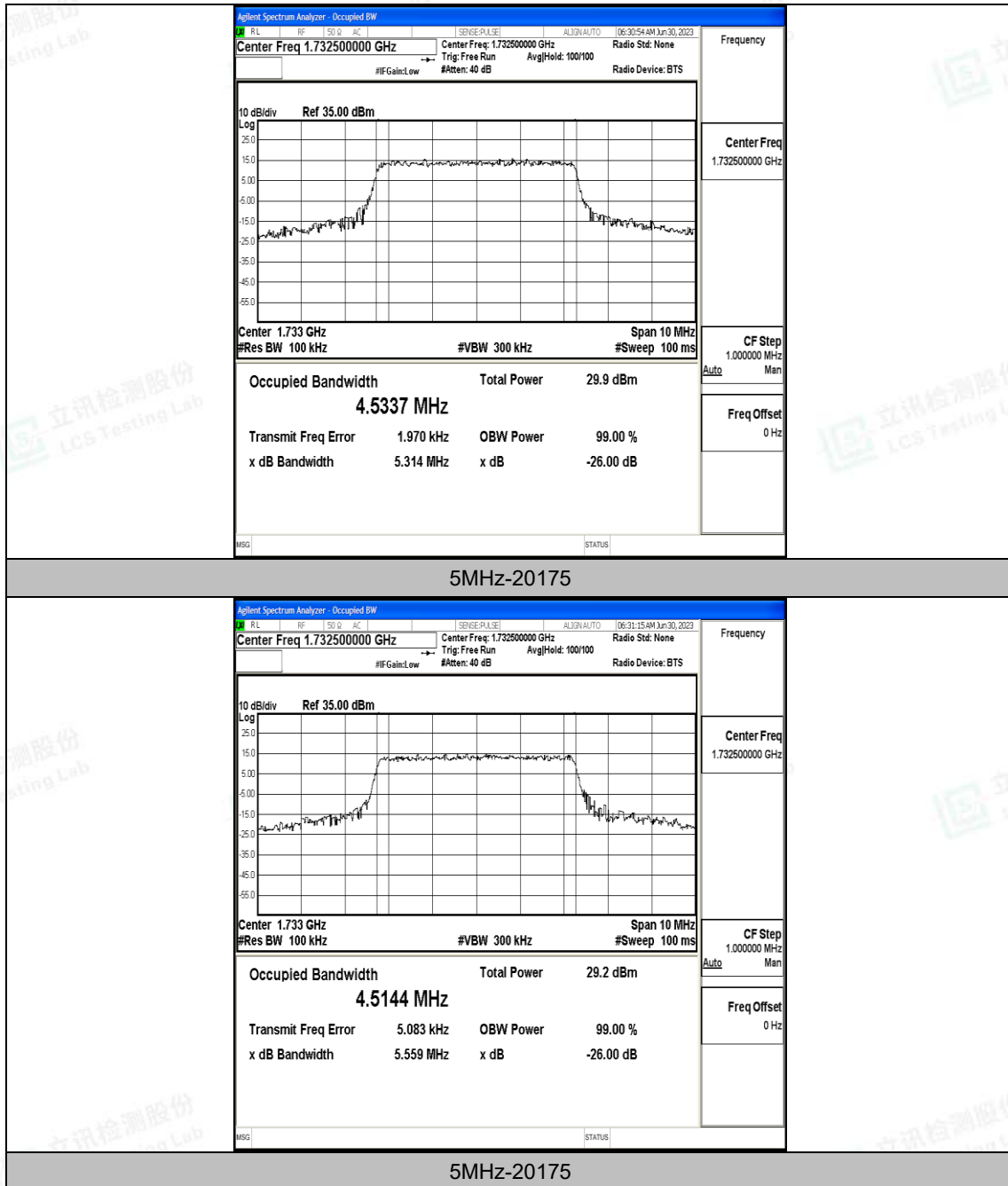
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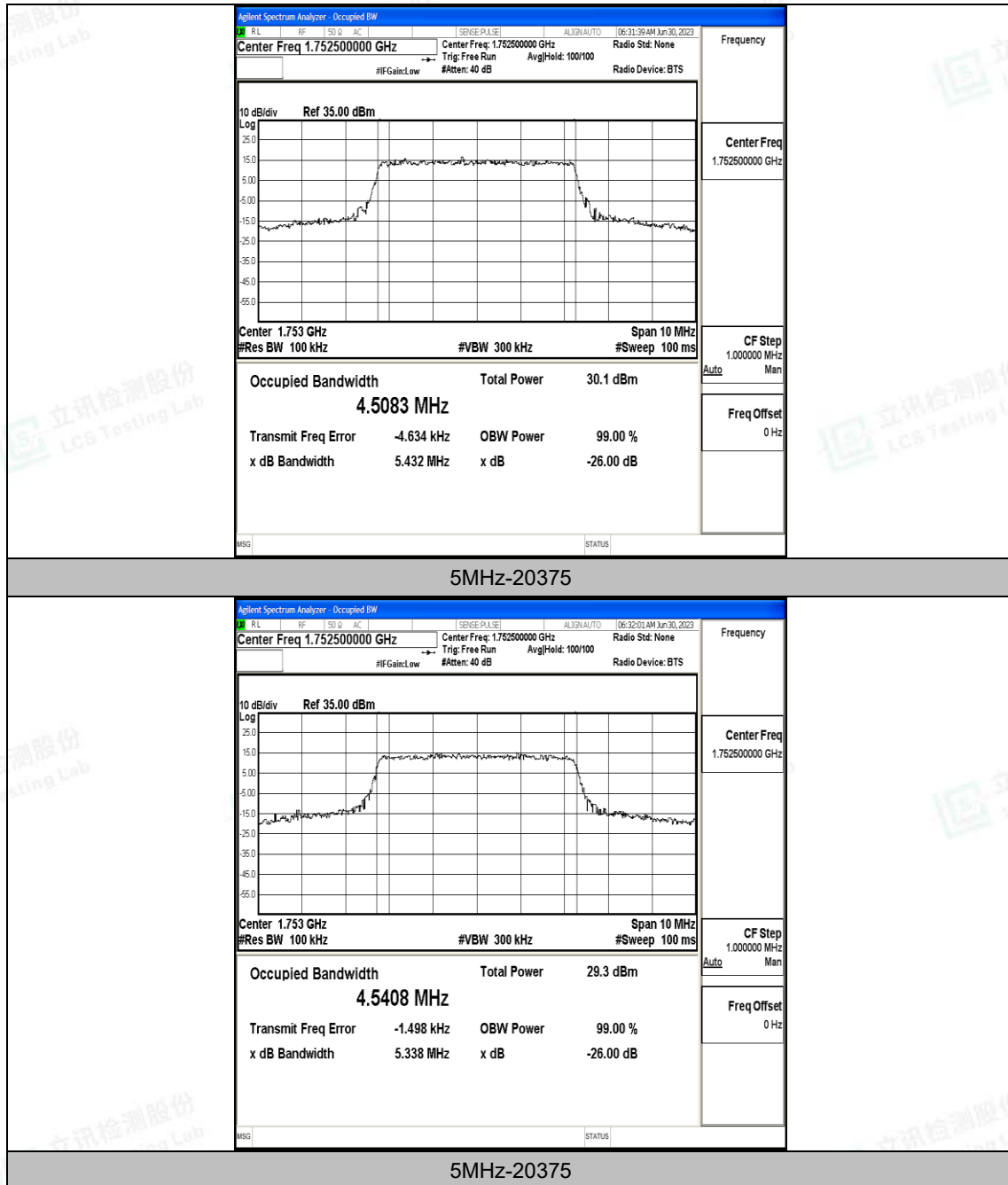
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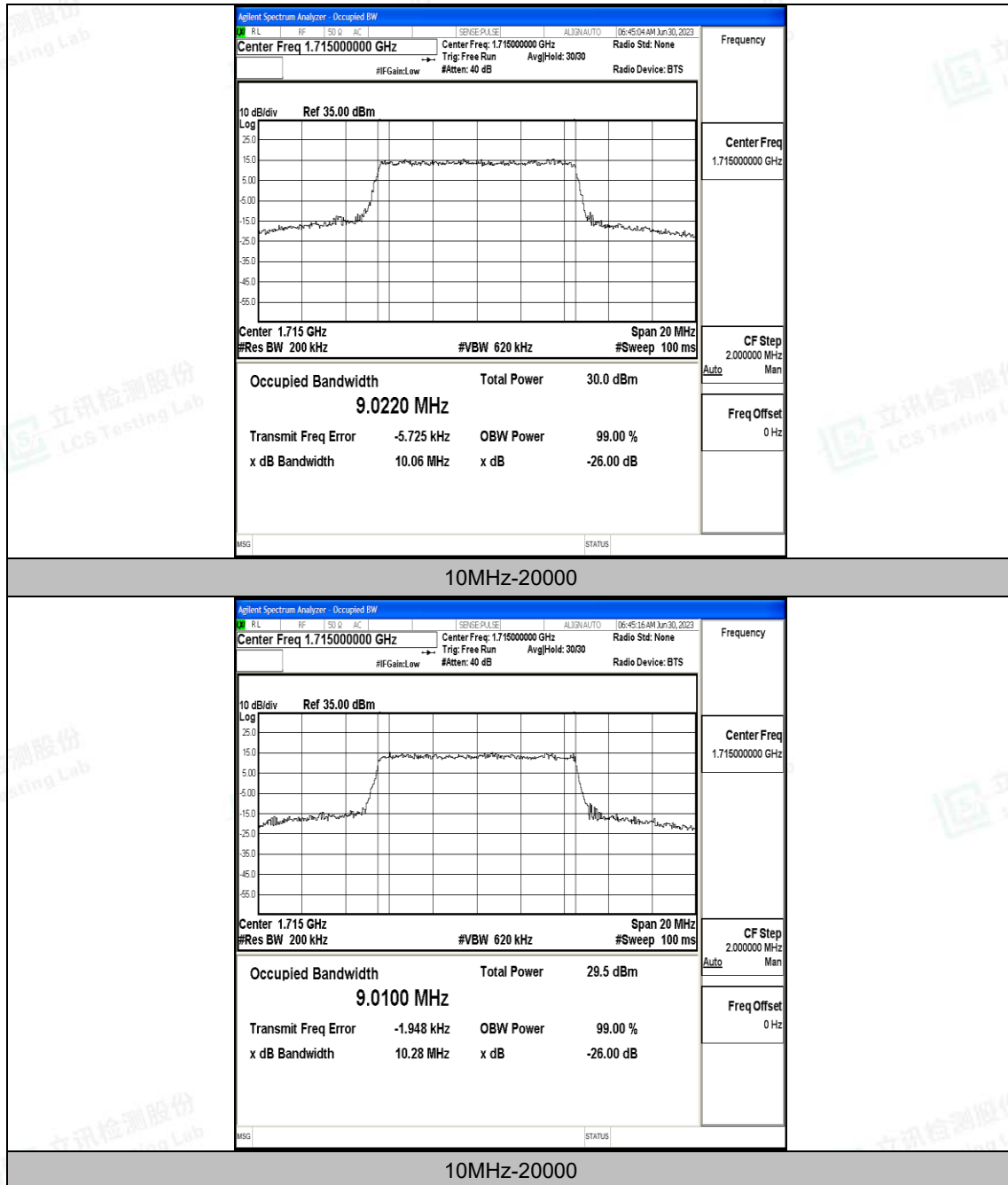
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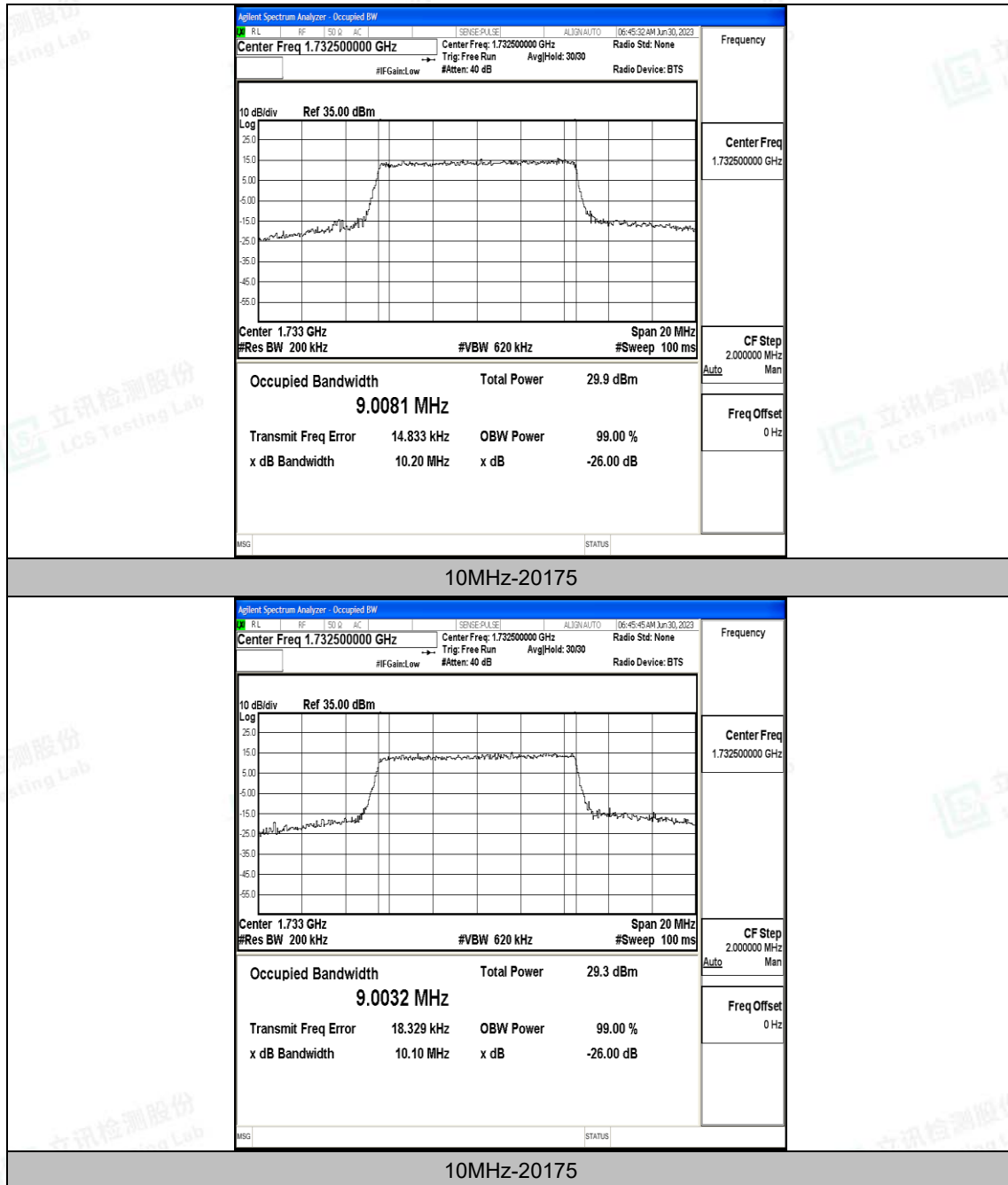
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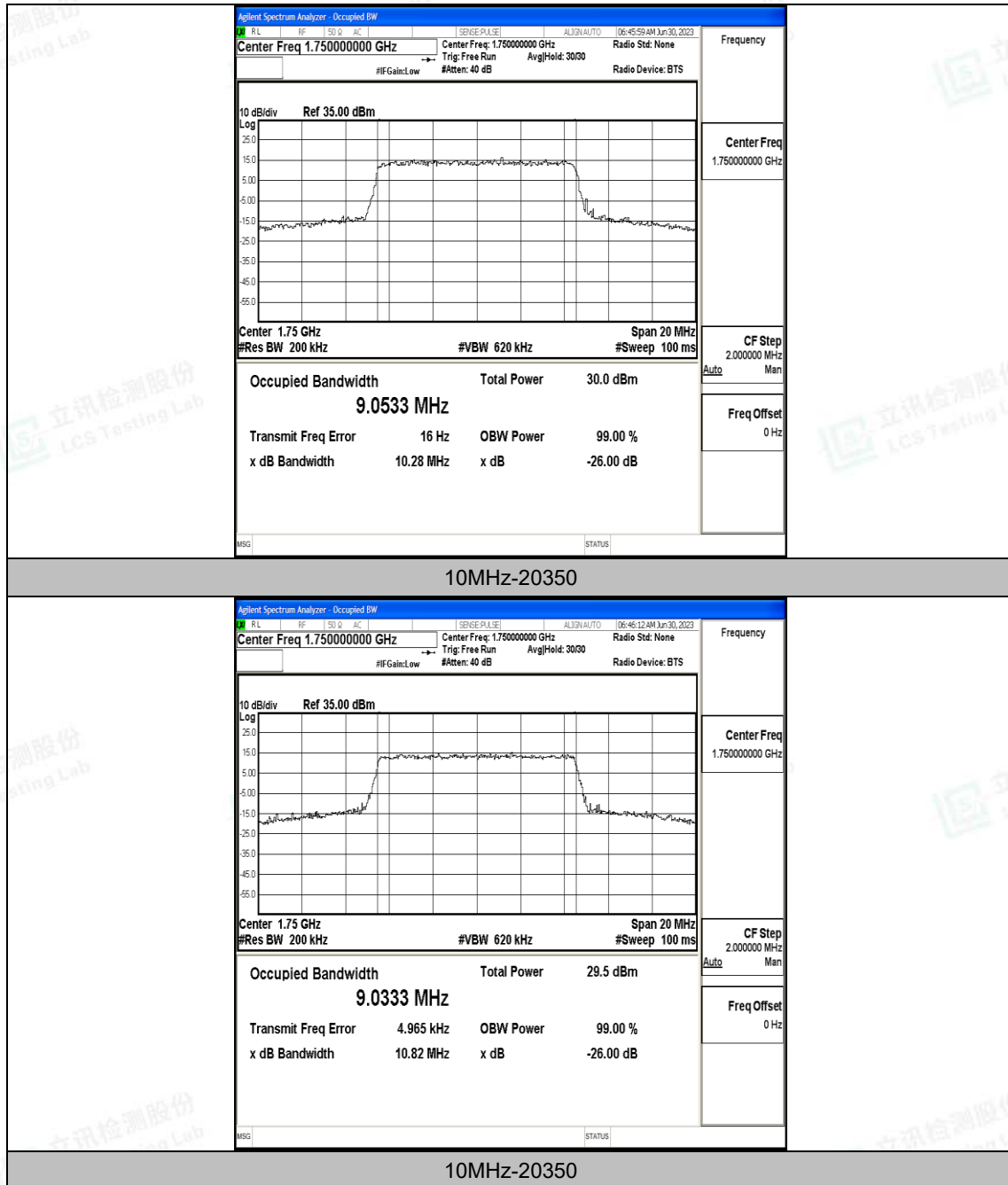


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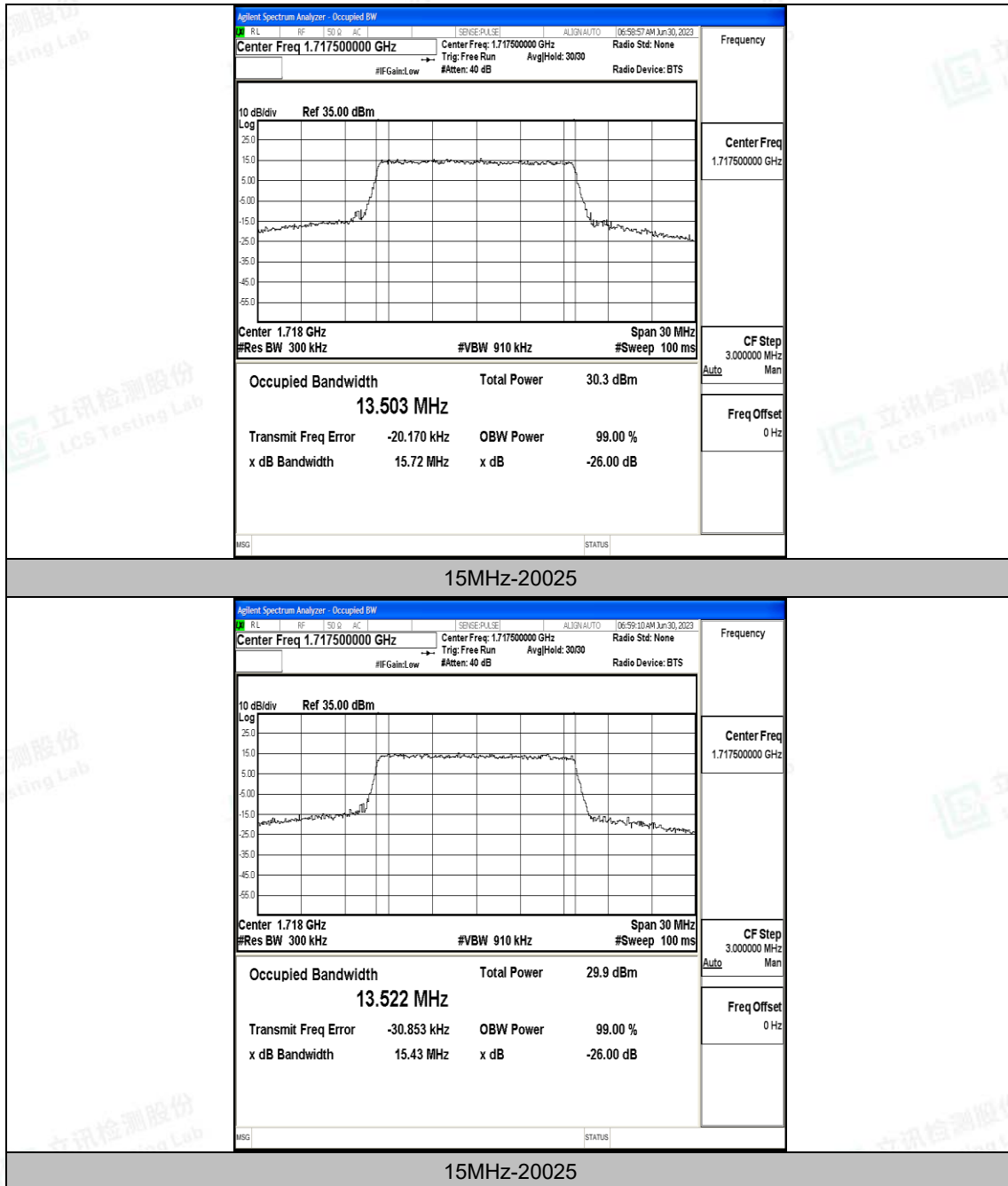


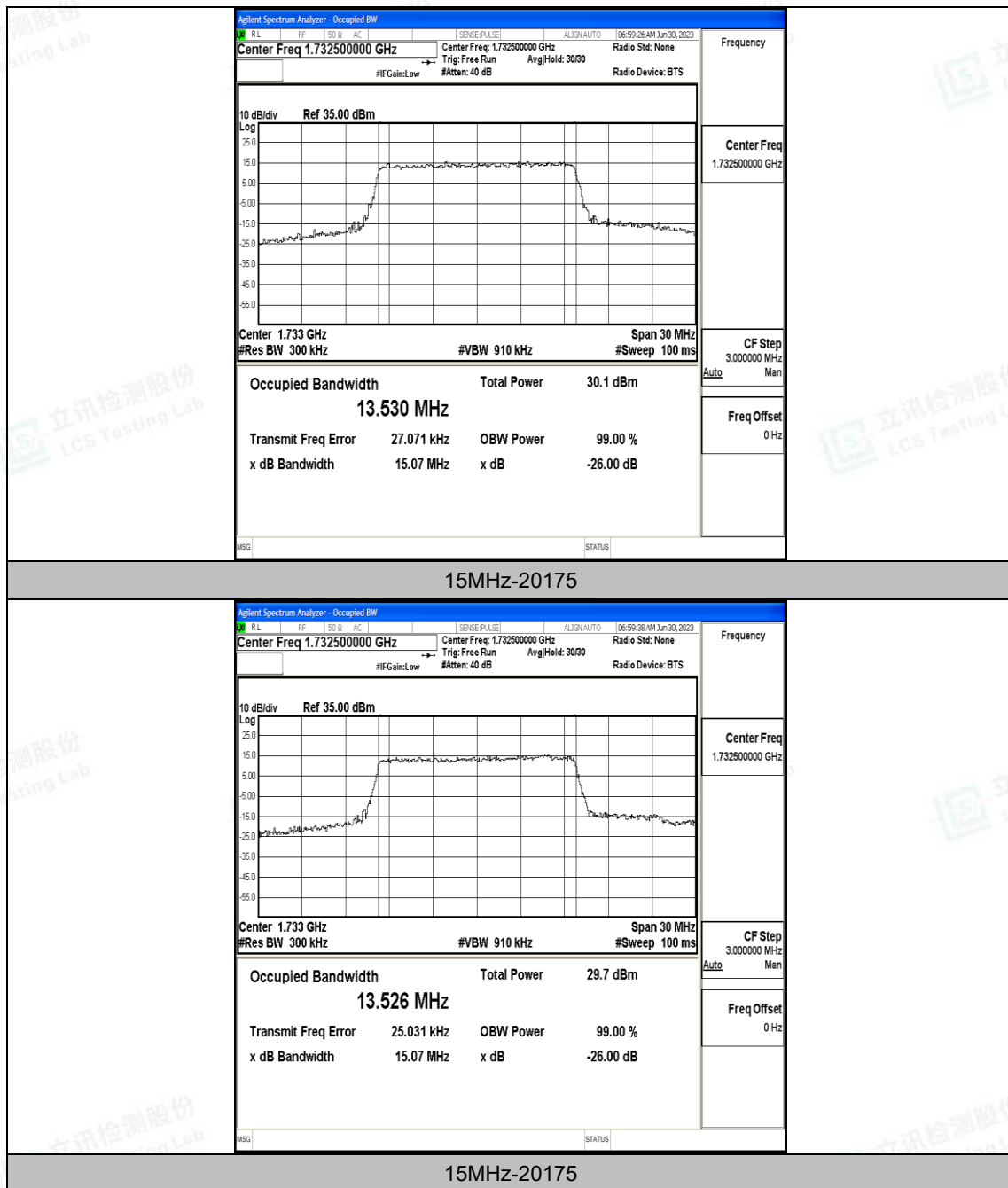
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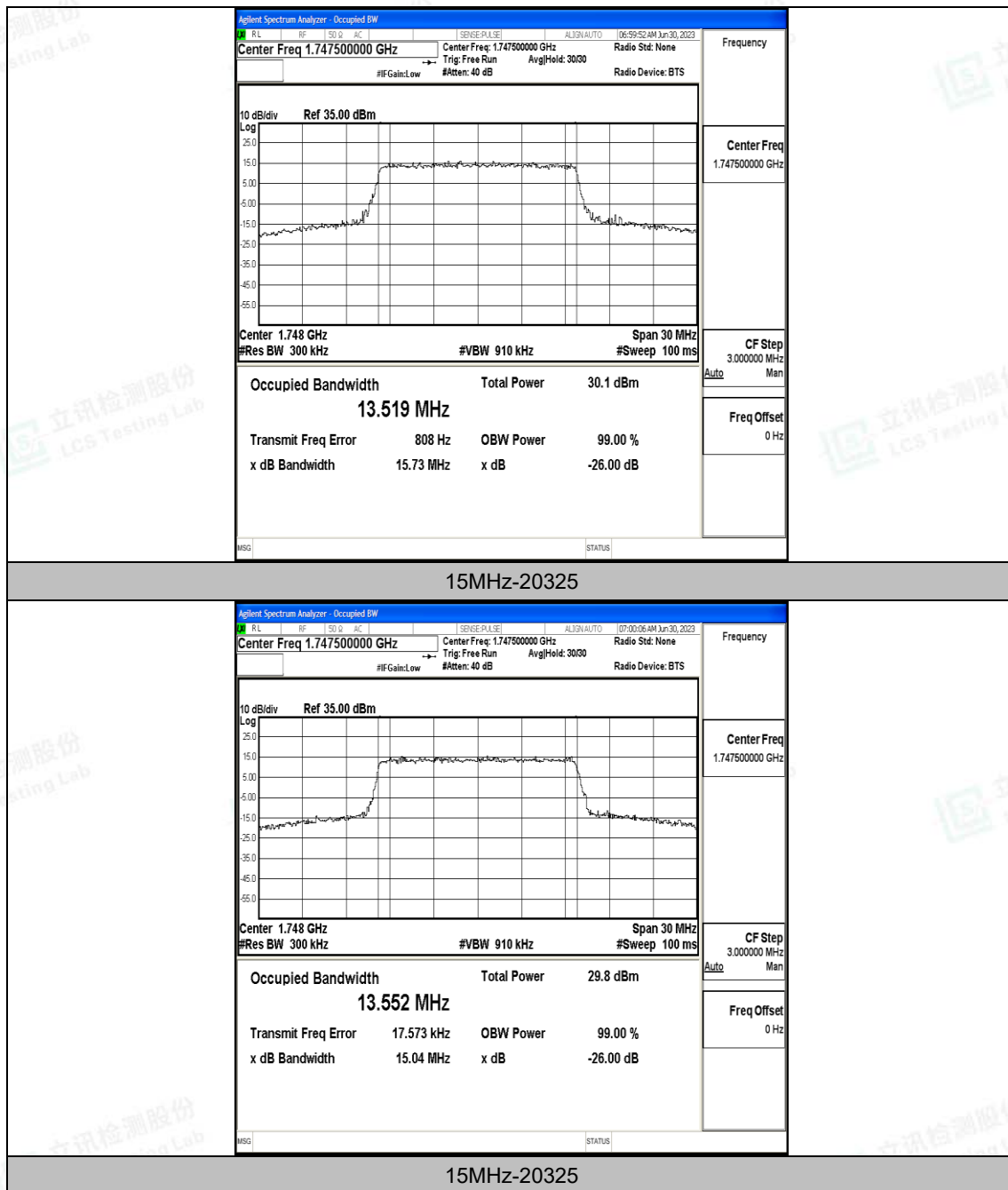


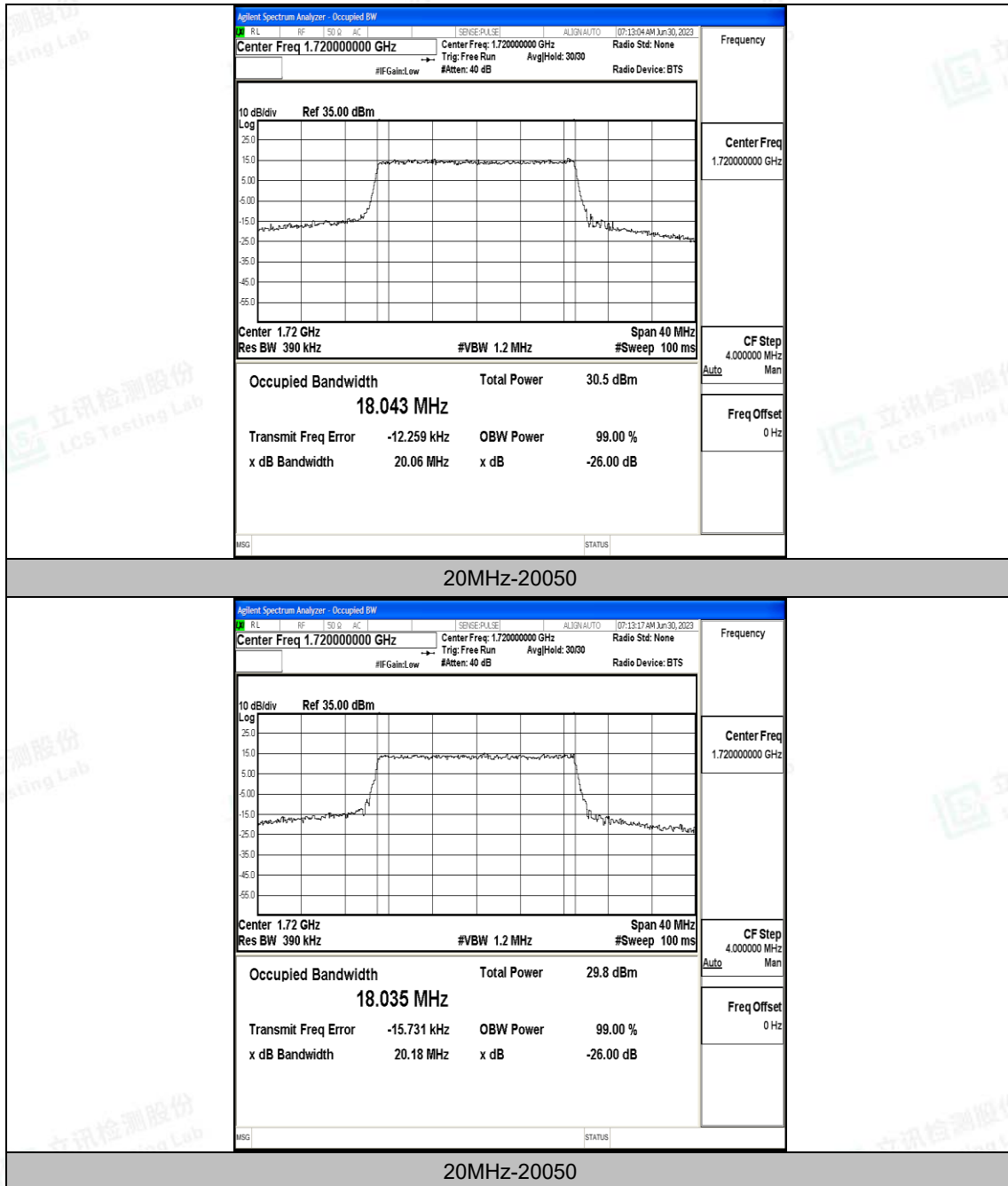
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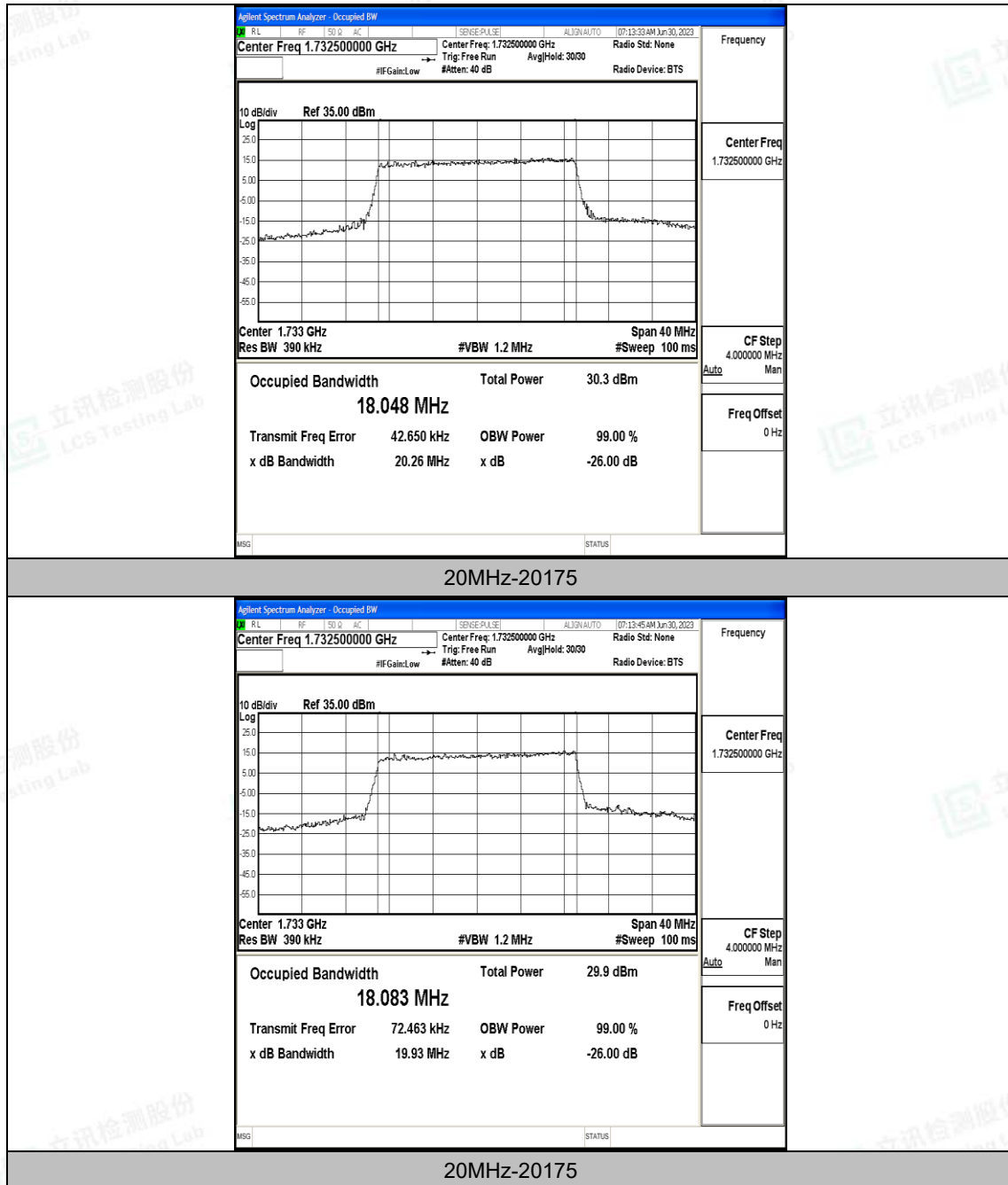
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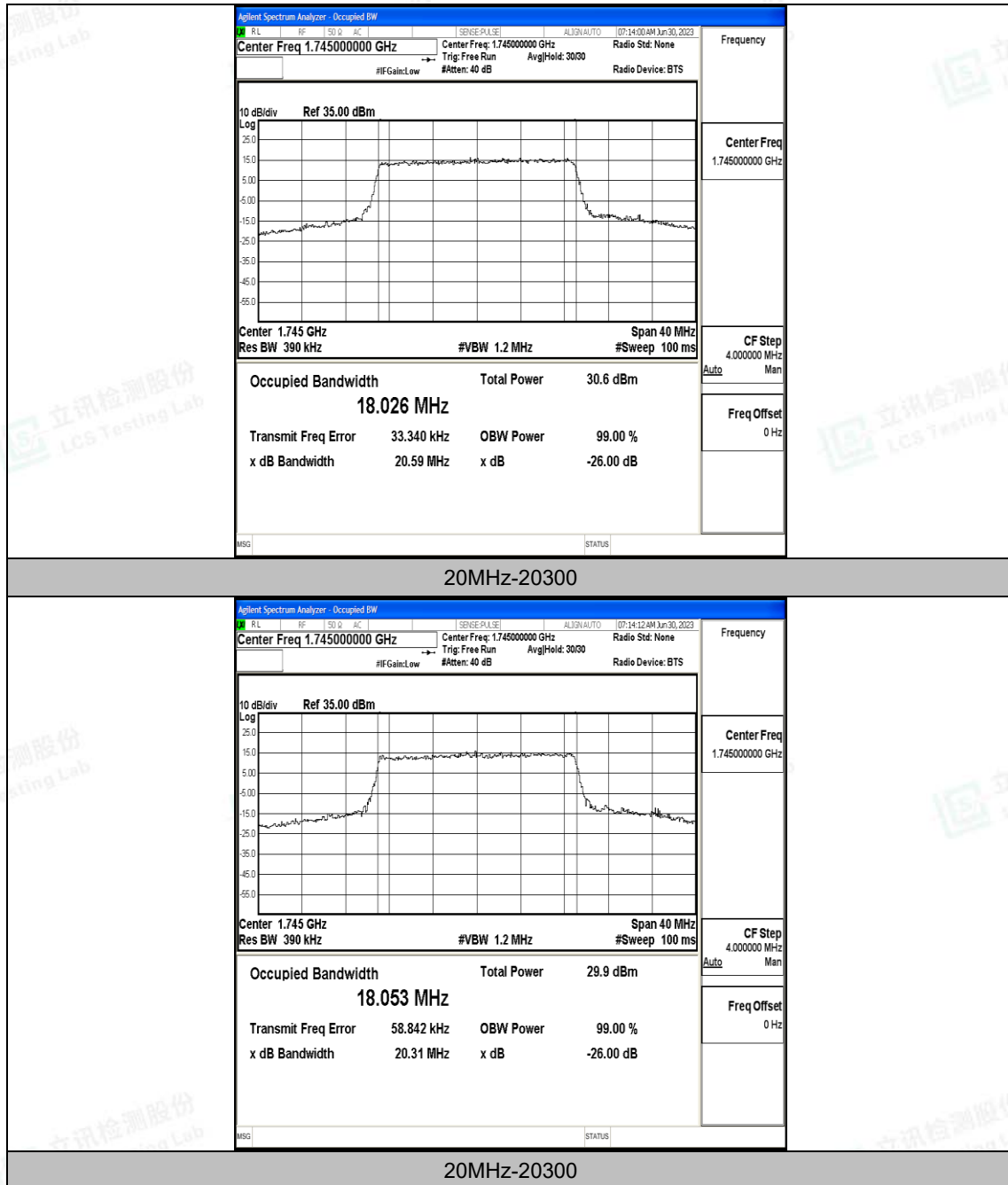
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E.4 Band Edge

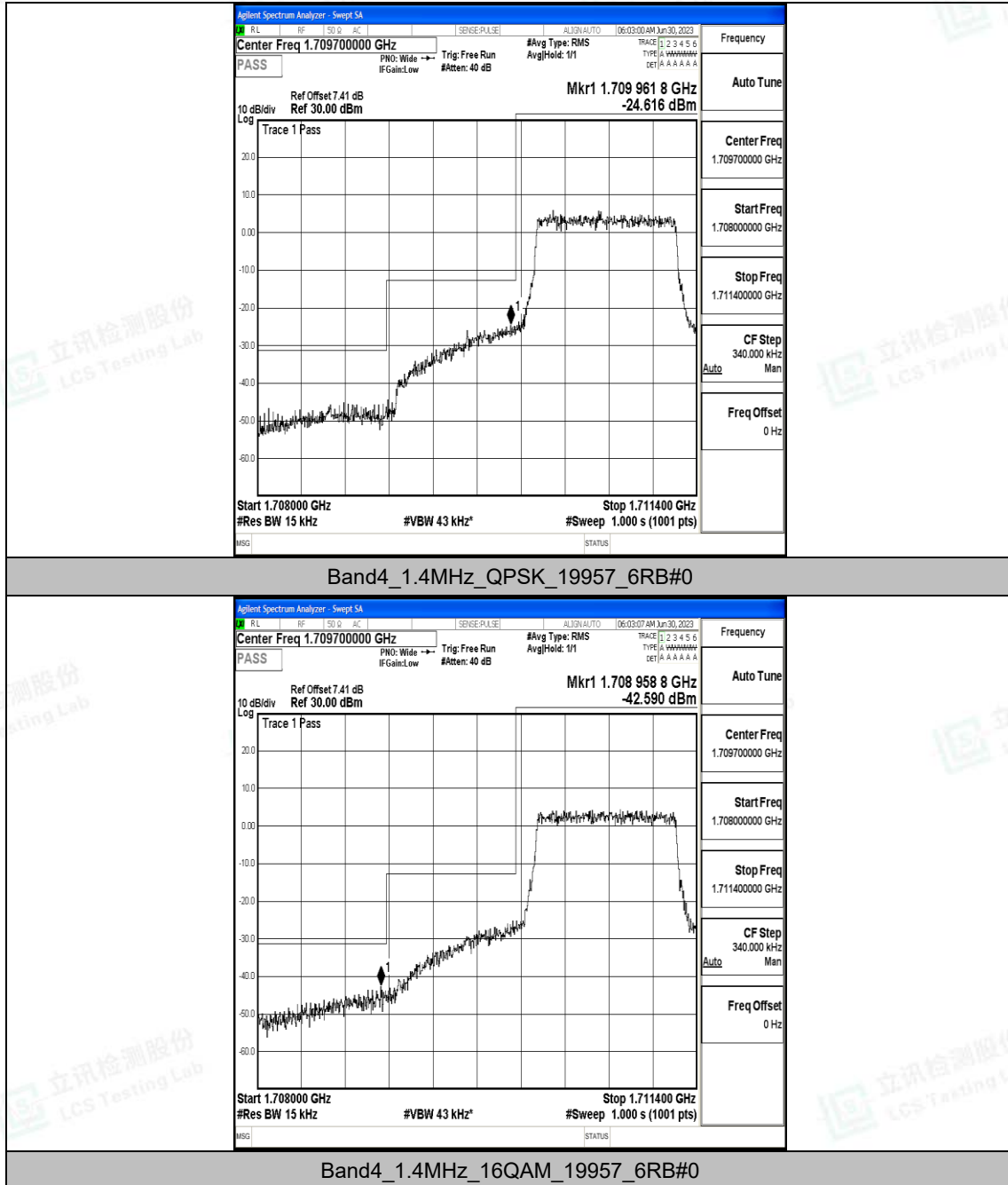
Test Result

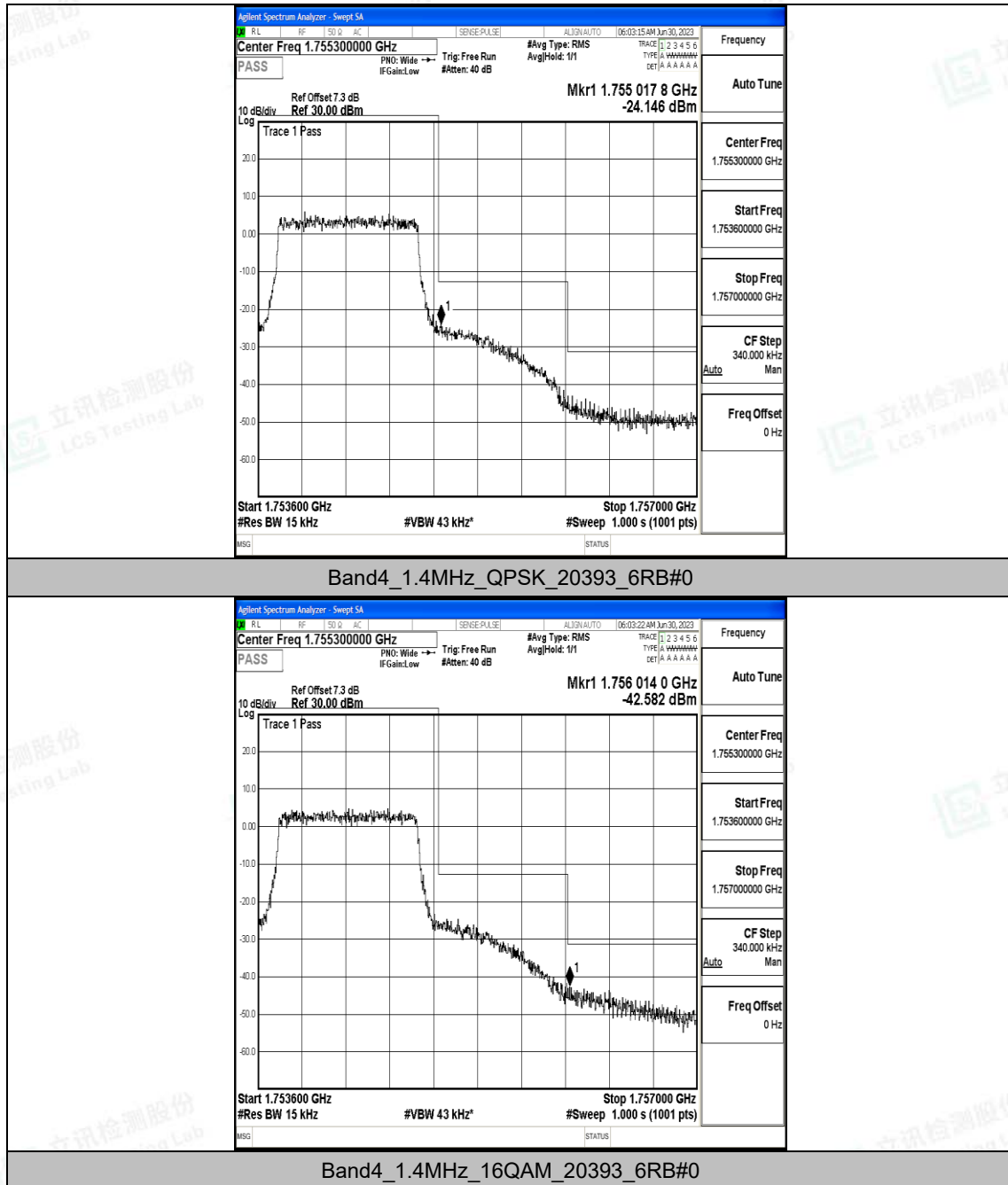
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1709.96	-24.62	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1708.96	-42.59	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1755.02	-24.15	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1756.01	-42.58	PASS
Band4	5MHz	QPSK	19975	25RB#0	1708.88	-27.72	PASS
Band4	5MHz	16QAM	19975	25RB#0	1708.83	-28.76	PASS
Band4	5MHz	QPSK	20375	25RB#0	1756.03	-26.69	PASS
Band4	5MHz	16QAM	20375	25RB#0	1756.03	-28.23	PASS
Band4	3MHz	QPSK	19965	15RB#0	1708.96	-31.36	PASS
Band4	3MHz	16QAM	19965	15RB#0	1708.96	-33.13	PASS
Band4	3MHz	QPSK	20385	15RB#0	1756.10	-30.03	PASS
Band4	3MHz	16QAM	20385	15RB#0	1756.28	-32.55	PASS
Band4	10MHz	QPSK	20000	50RB#0	1708.84	-28.01	PASS
Band4	10MHz	16QAM	20000	50RB#0	1708.71	-29.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	1756.11	-26.48	PASS
Band4	10MHz	16QAM	20350	50RB#0	1756.76	-27.77	PASS
Band4	15MHz	QPSK	20025	75RB#0	1708.88	-26.38	PASS
Band4	15MHz	16QAM	20025	75RB#0	1708.78	-27.86	PASS
Band4	15MHz	QPSK	20325	75RB#0	1756.20	-24.62	PASS
Band4	15MHz	16QAM	20325	75RB#0	1756.27	-25.58	PASS
Band4	20MHz	QPSK	20050	100RB#0	1708.81	-26.83	PASS
Band4	20MHz	16QAM	20050	100RB#0	1708.81	-28.28	PASS
Band4	20MHz	QPSK	20300	100RB#0	1756.01	-24.80	PASS
Band4	20MHz	16QAM	20300	100RB#0	1756.10	-26.18	PASS

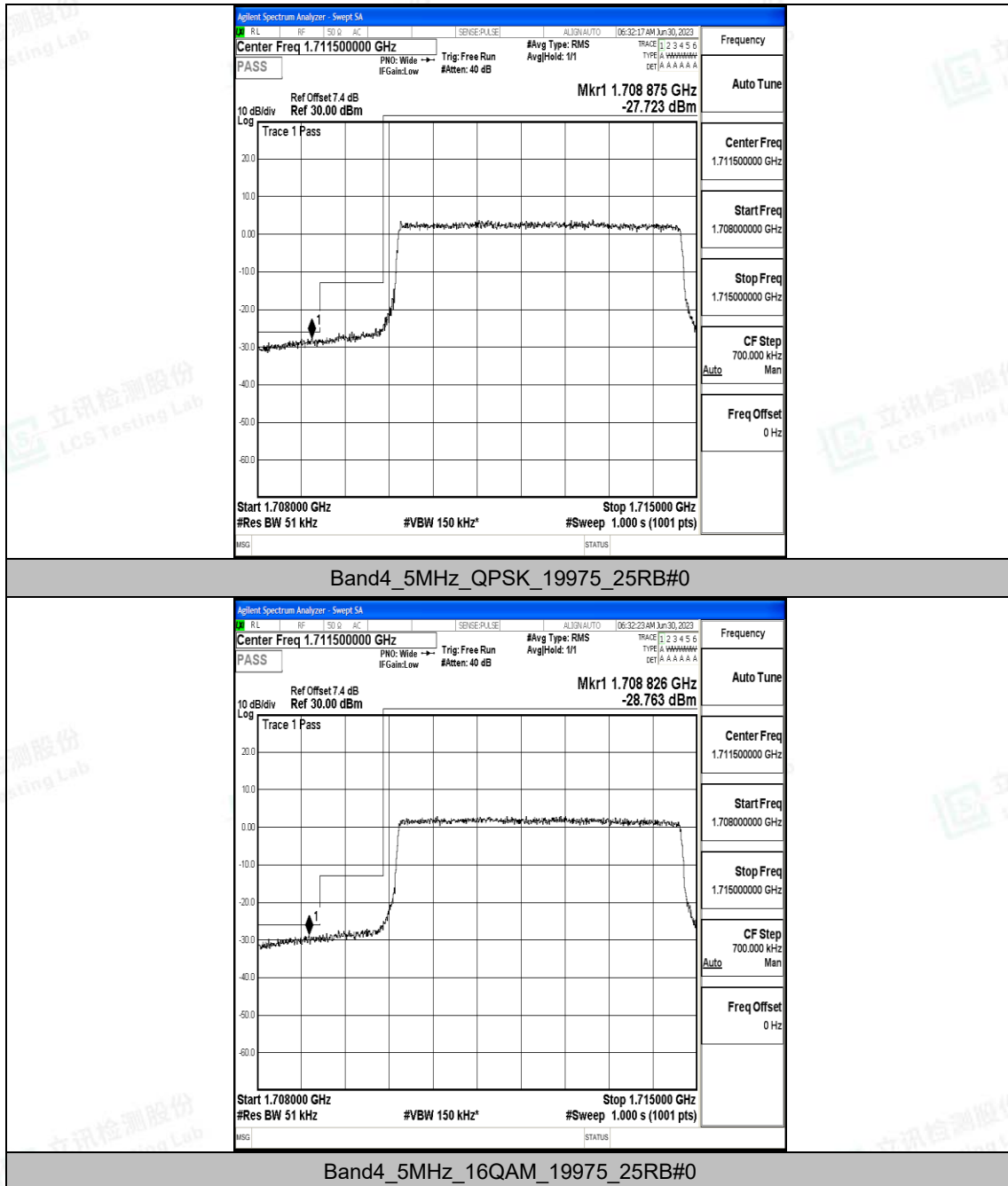


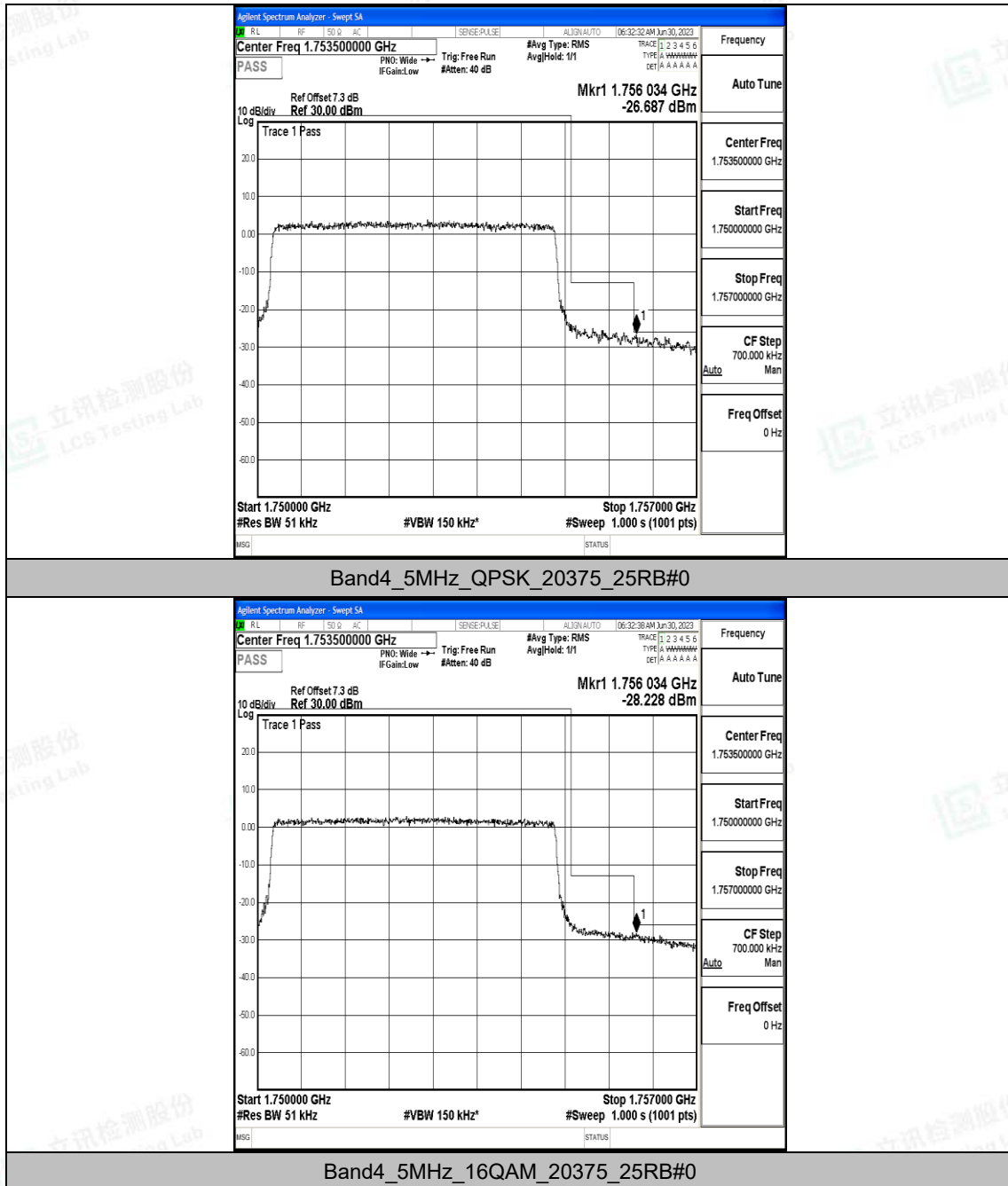


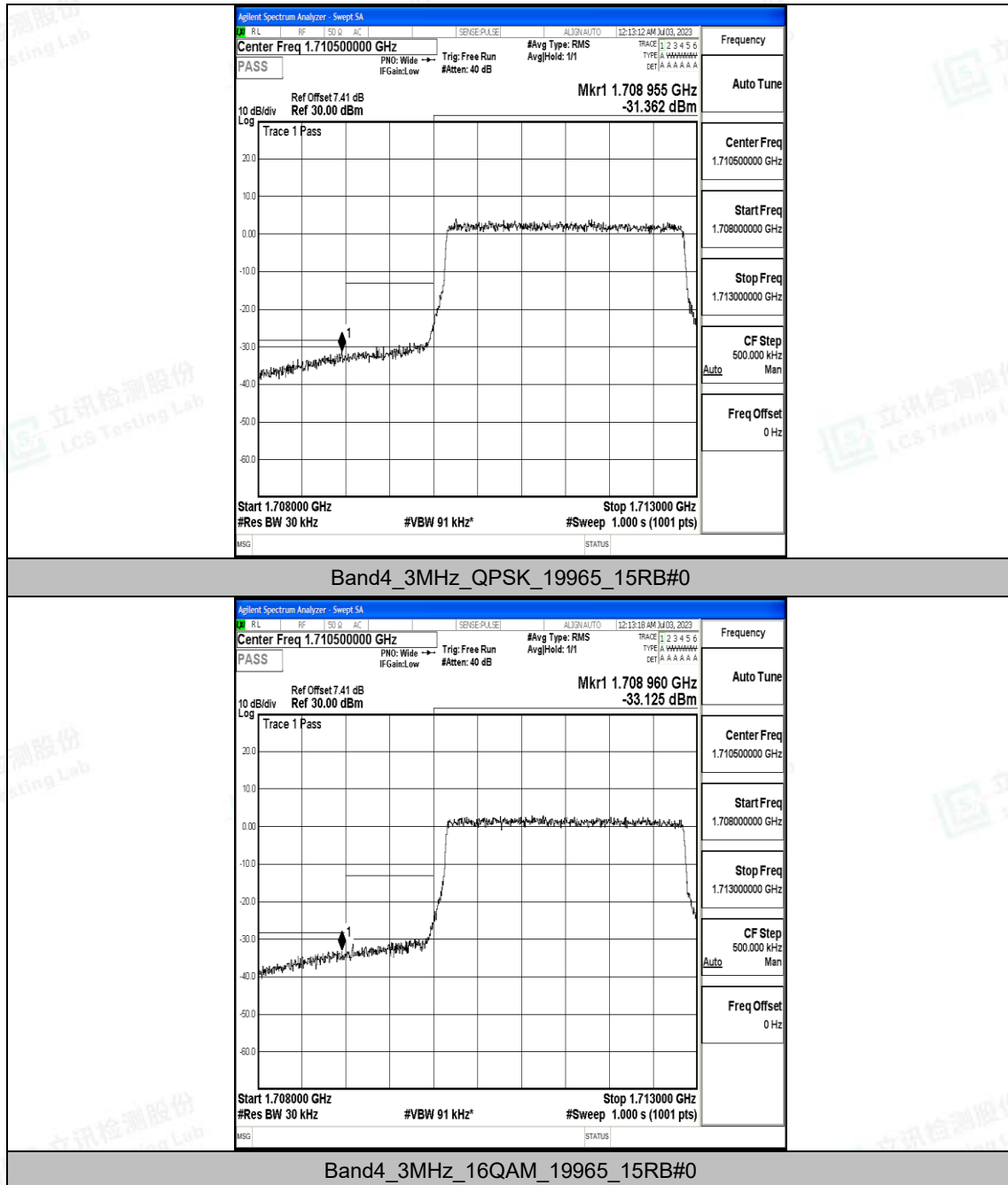
Test Graphs

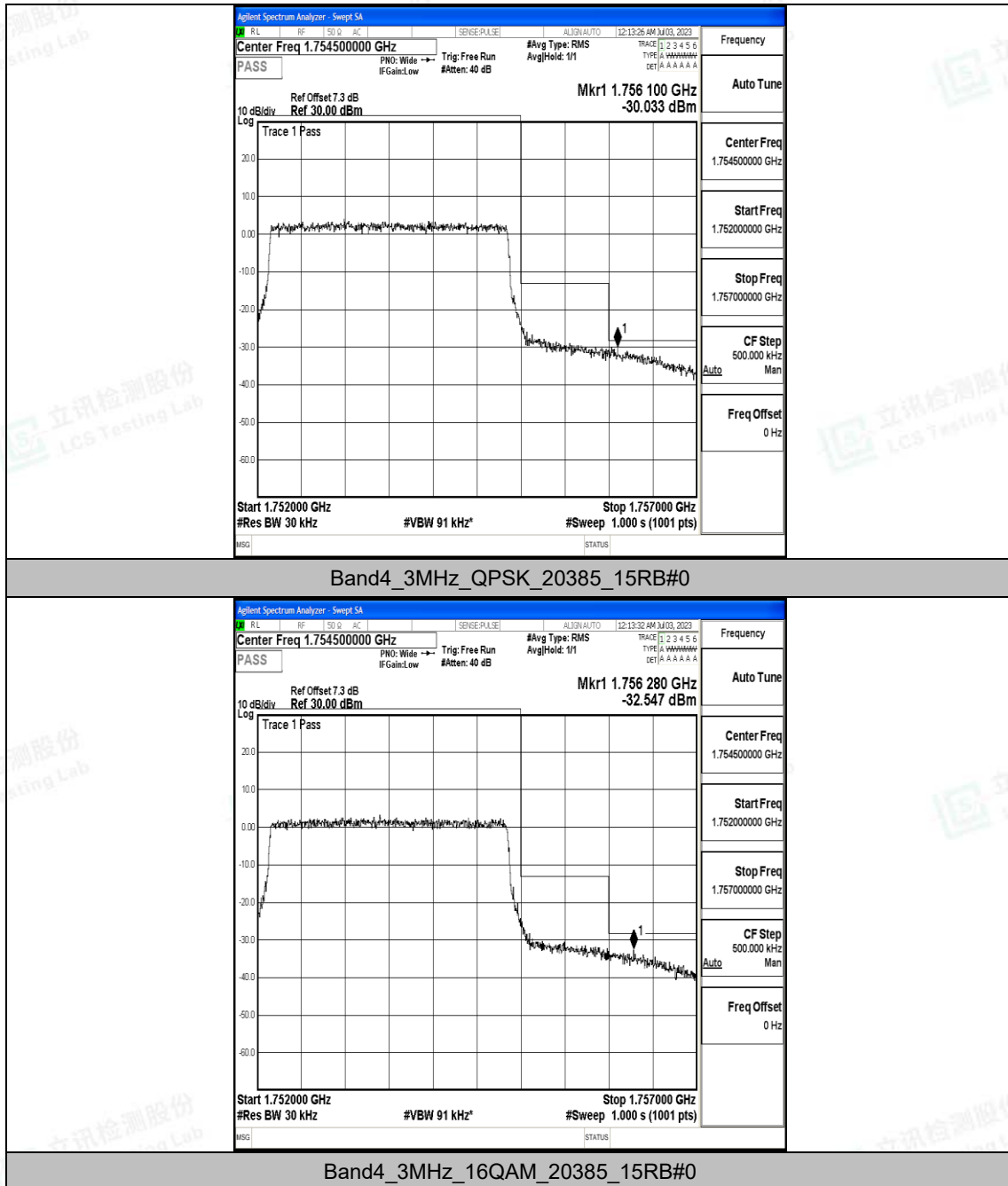


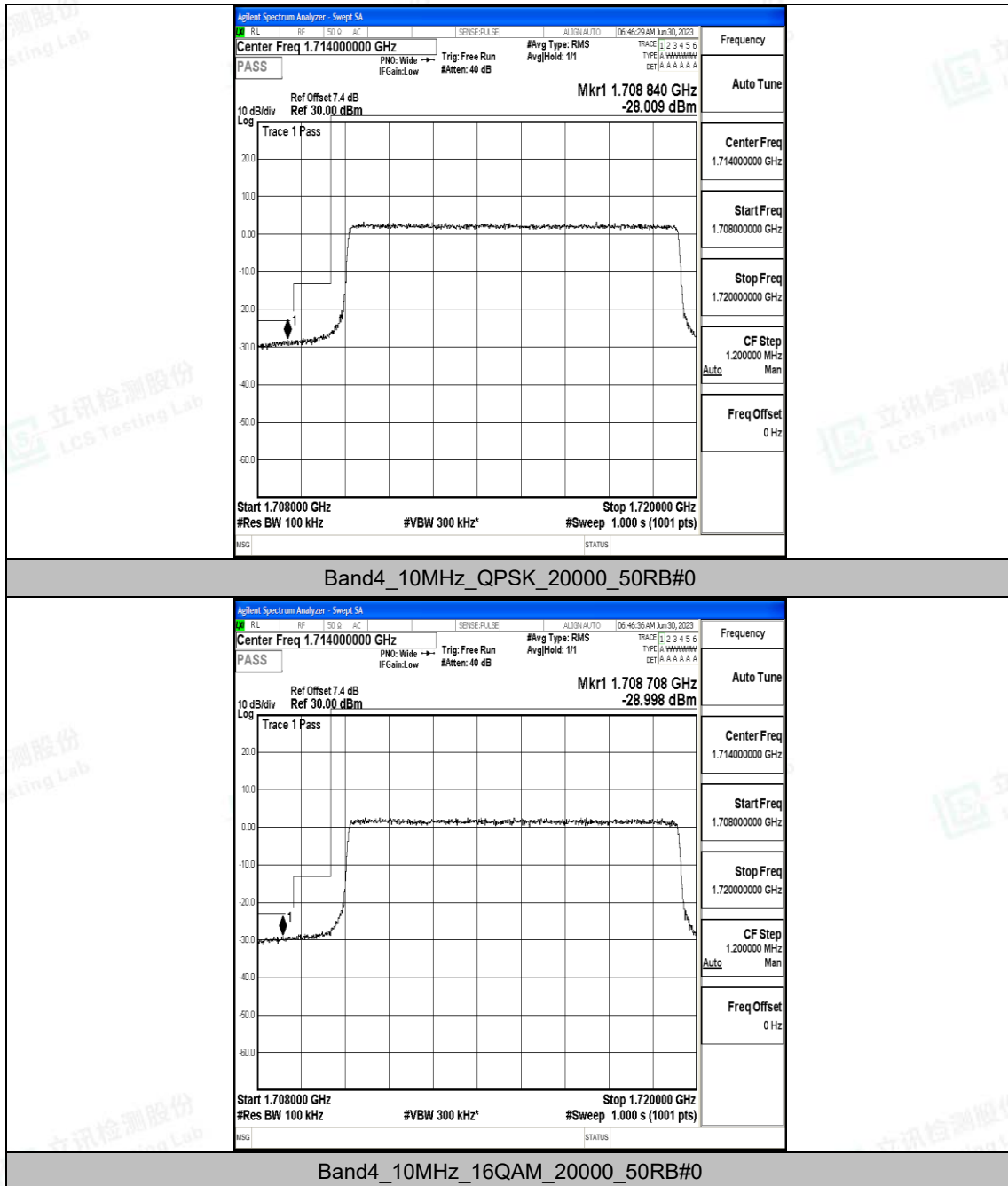


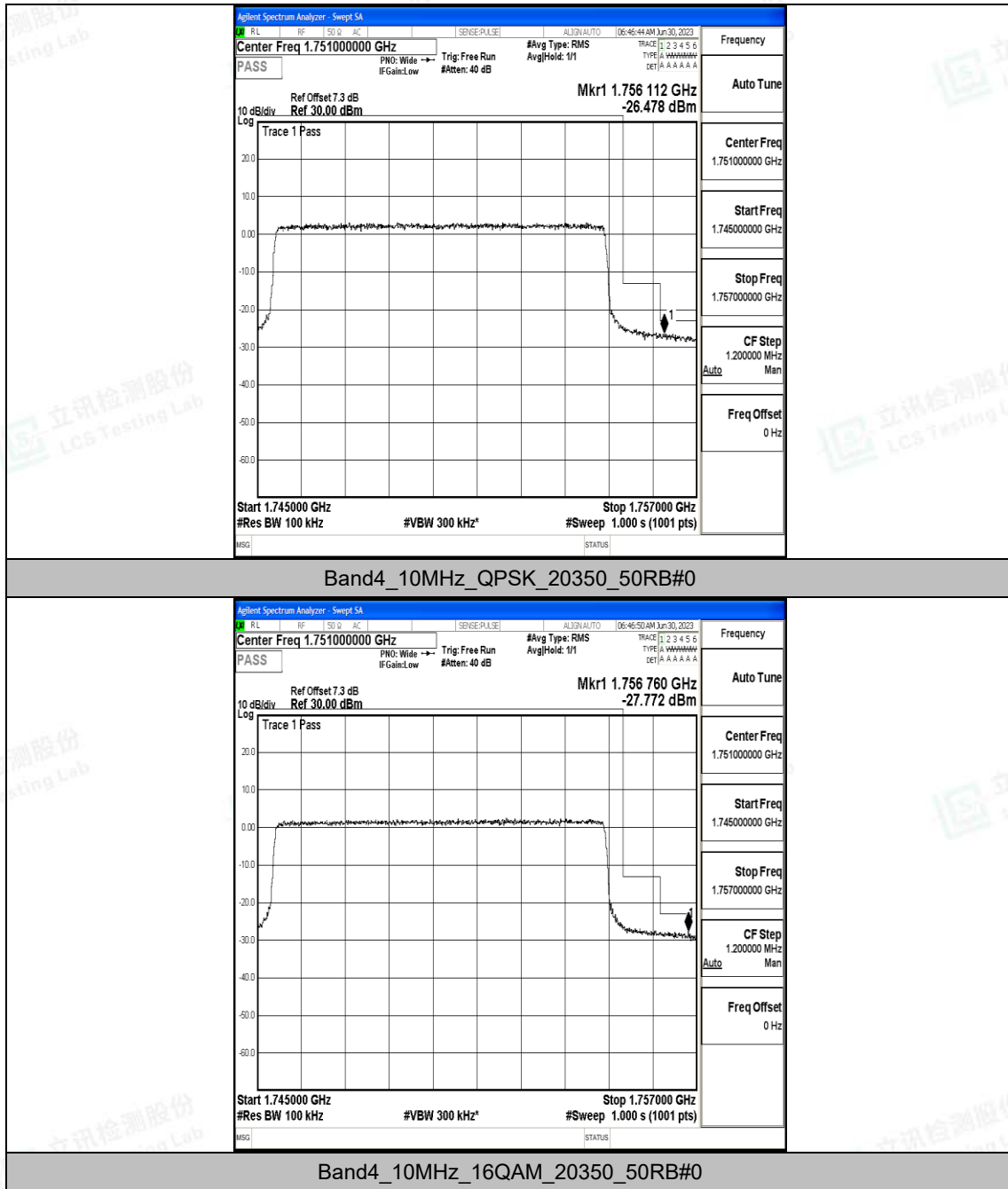


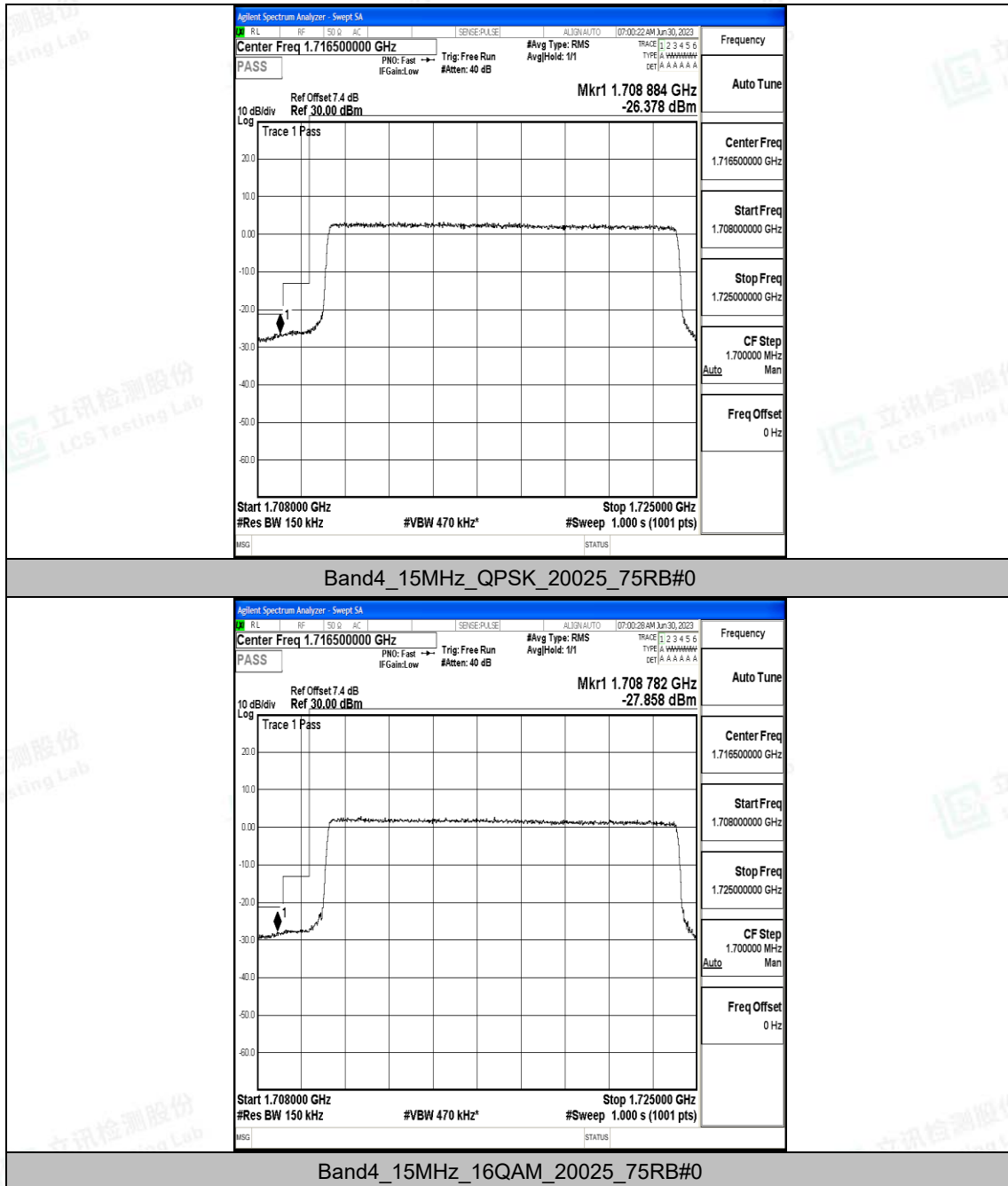


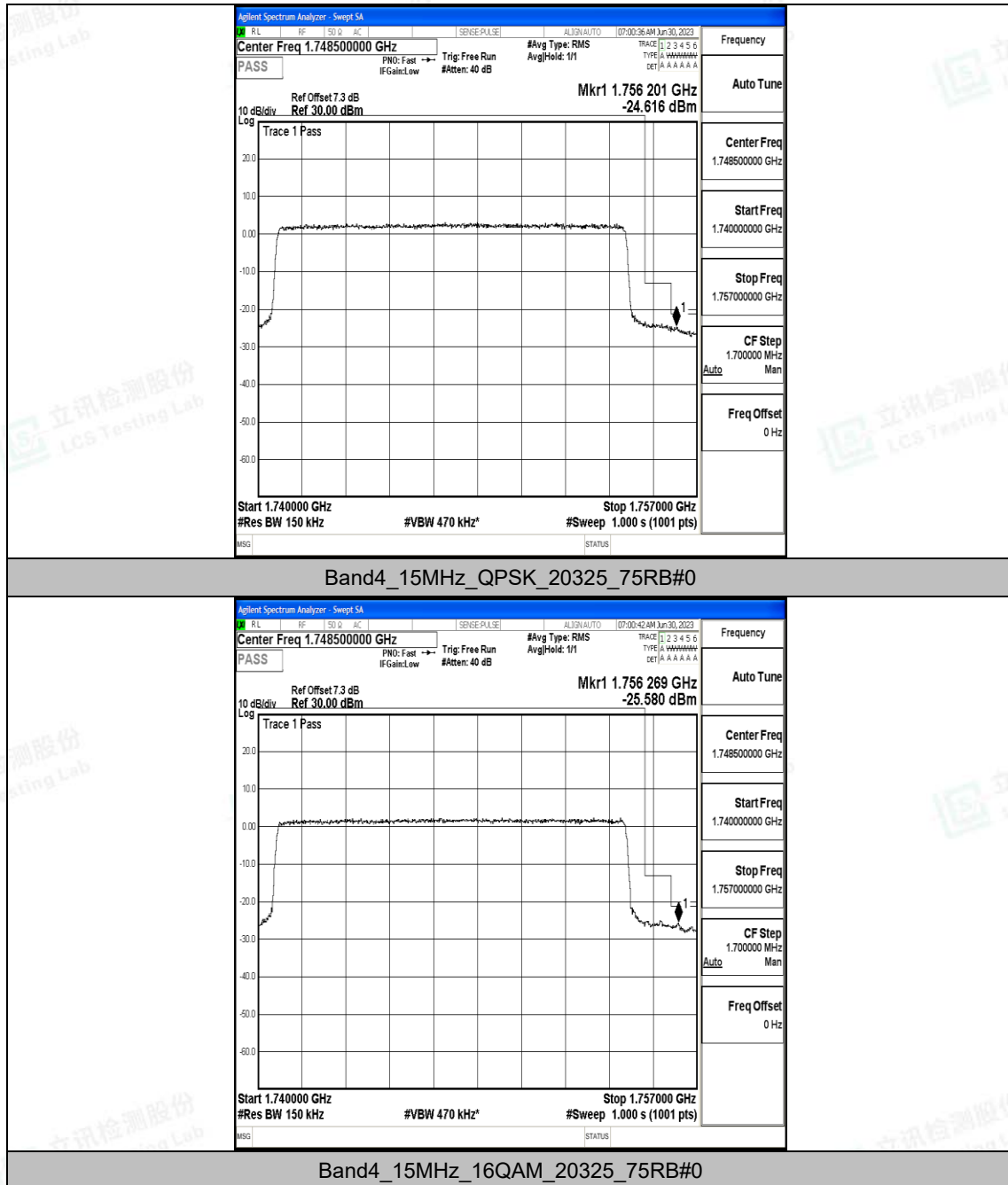


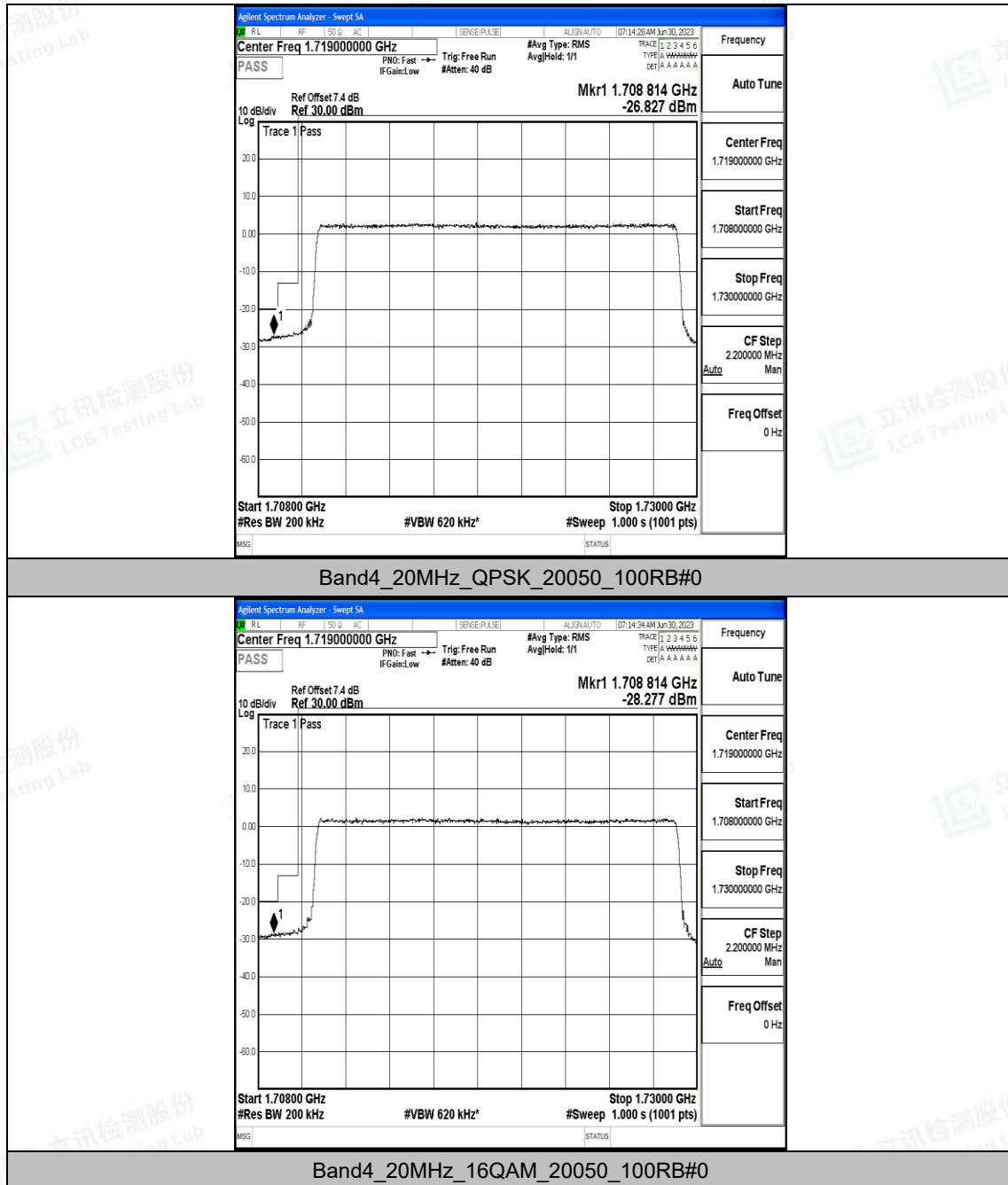


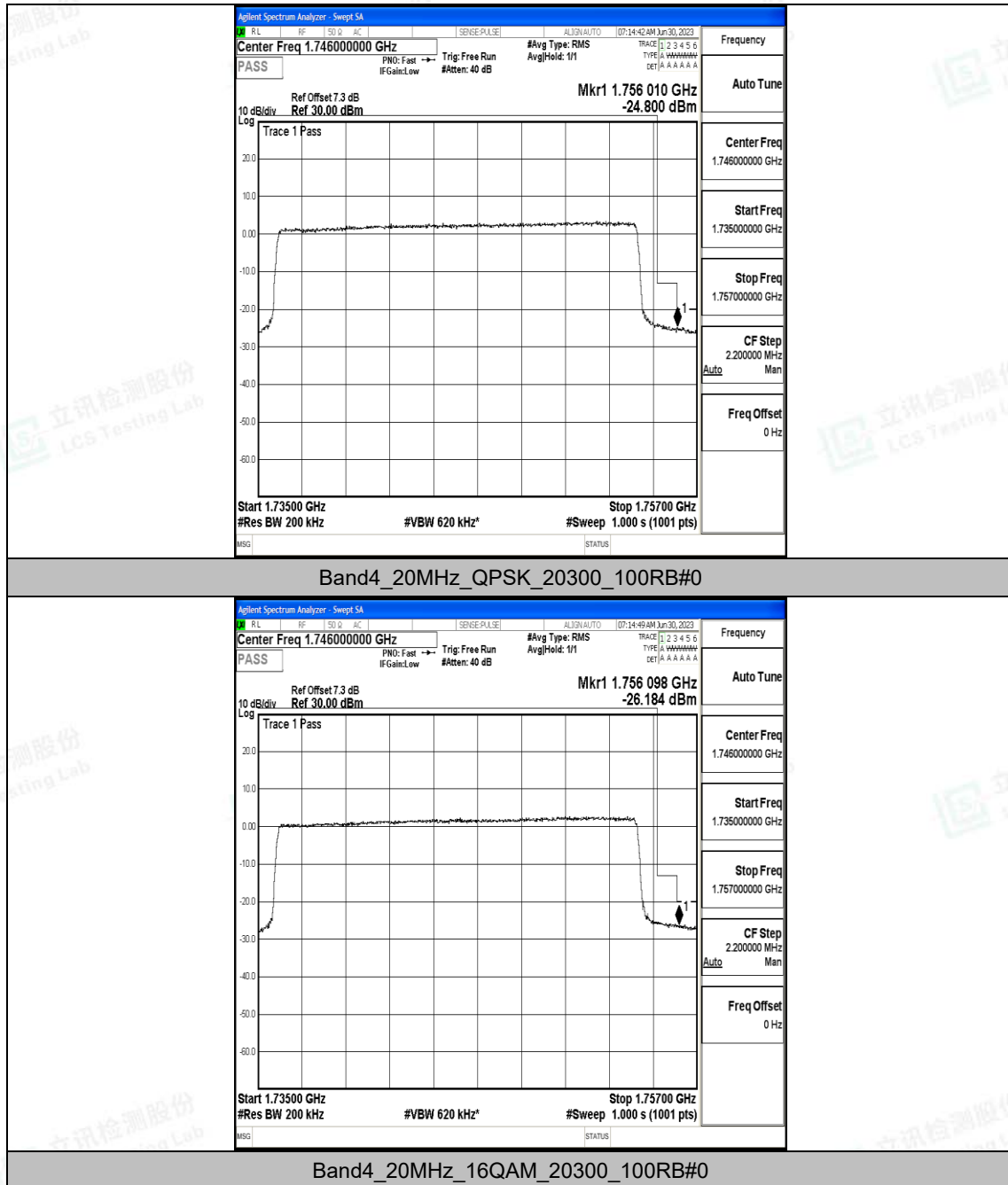














E.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	0.009~0.15	-62.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	0.15~30	-53.14	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	30~1000	-53.85	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	1000~3000	-19.96	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	3000~20000	-32.97	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	0.009~0.15	-58.92	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	0.15~30	-54.22	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	30~1000	-53.85	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	1000~3000	-26.13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	3000~20000	-33.07	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	0.009~0.15	-58.95	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	0.15~30	-53.49	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	30~1000	-53.76	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	1000~3000	-24.69	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	3000~20000	-33.23	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	0.009~0.15	-55.77	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	0.15~30	-54.48	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	30~1000	-53.78	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	1000~3000	-25.19	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	3000~20000	-33.43	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	0.009~0.15	-59.91	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	0.15~30	-52.81	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	30~1000	-53.89	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	1000~3000	-22.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3000~20000	-33.59	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	0.009~0.15	-57.99	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	0.15~30	-52.66	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	30~1000	-53.88	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	1000~3000	-22.37	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	3000~20000	-32.52	PASS
Band4	3MHz	QPSK	19965	1RB#0	0.009~0.15	-56.42	PASS
Band4	3MHz	QPSK	19965	1RB#0	0.15~30	-52.96	PASS
Band4	3MHz	QPSK	19965	1RB#0	30~1000	-53.82	PASS
Band4	3MHz	QPSK	19965	1RB#0	1000~3000	-26.42	PASS
Band4	3MHz	QPSK	19965	1RB#0	3000~20000	-33.10	PASS



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Band4	3MHz	16QAM	19965	1RB#0	0.009~0.15	-60.15	PASS
Band4	3MHz	16QAM	19965	1RB#0	0.15~30	-55.19	PASS
Band4	3MHz	16QAM	19965	1RB#0	30~1000	-53.81	PASS
Band4	3MHz	16QAM	19965	1RB#0	1000~3000	-26.86	PASS
Band4	3MHz	16QAM	19965	1RB#0	3000~20000	-33.57	PASS
Band4	3MHz	QPSK	20175	1RB#0	0.009~0.15	-58.79	PASS
Band4	3MHz	QPSK	20175	1RB#0	0.15~30	-53.79	PASS
Band4	3MHz	QPSK	20175	1RB#0	30~1000	-53.91	PASS
Band4	3MHz	QPSK	20175	1RB#0	1000~3000	-27.74	PASS
Band4	3MHz	QPSK	20175	1RB#0	3000~20000	-33.37	PASS
Band4	3MHz	16QAM	20175	1RB#0	0.009~0.15	-57.64	PASS
Band4	3MHz	16QAM	20175	1RB#0	0.15~30	-52.29	PASS
Band4	3MHz	16QAM	20175	1RB#0	30~1000	-53.91	PASS
Band4	3MHz	16QAM	20175	1RB#0	1000~3000	-28.86	PASS
Band4	3MHz	16QAM	20175	1RB#0	3000~20000	-33.71	PASS
Band4	3MHz	QPSK	20385	1RB#0	0.009~0.15	-59.15	PASS
Band4	3MHz	QPSK	20385	1RB#0	0.15~30	-52.91	PASS
Band4	3MHz	QPSK	20385	1RB#0	30~1000	-53.89	PASS
Band4	3MHz	QPSK	20385	1RB#0	1000~3000	-25.36	PASS
Band4	3MHz	QPSK	20385	1RB#0	3000~20000	-33.18	PASS
Band4	3MHz	16QAM	20385	1RB#0	0.009~0.15	-58.44	PASS
Band4	3MHz	16QAM	20385	1RB#0	0.15~30	-54.37	PASS
Band4	3MHz	16QAM	20385	1RB#0	30~1000	-53.91	PASS
Band4	3MHz	16QAM	20385	1RB#0	1000~3000	-27.17	PASS
Band4	3MHz	16QAM	20385	1RB#0	3000~20000	-33.31	PASS
Band4	5MHz	QPSK	19975	1RB#0	0.009~0.15	-54.73	PASS
Band4	5MHz	QPSK	19975	1RB#0	0.15~30	-52.97	PASS
Band4	5MHz	QPSK	19975	1RB#0	30~1000	-53.89	PASS
Band4	5MHz	QPSK	19975	1RB#0	1000~3000	-36.24	PASS
Band4	5MHz	QPSK	19975	1RB#0	3000~20000	-33.06	PASS
Band4	5MHz	16QAM	19975	1RB#0	0.009~0.15	-60.54	PASS
Band4	5MHz	16QAM	19975	1RB#0	0.15~30	-54.99	PASS
Band4	5MHz	16QAM	19975	1RB#0	30~1000	-53.89	PASS
Band4	5MHz	16QAM	19975	1RB#0	1000~3000	-36.40	PASS
Band4	5MHz	16QAM	19975	1RB#0	3000~20000	-32.93	PASS
Band4	5MHz	QPSK	20175	1RB#0	0.009~0.15	-58.97	PASS
Band4	5MHz	QPSK	20175	1RB#0	0.15~30	-54.30	PASS
Band4	5MHz	QPSK	20175	1RB#0	30~1000	-53.90	PASS
Band4	5MHz	QPSK	20175	1RB#0	1000~3000	-38.37	PASS
Band4	5MHz	QPSK	20175	1RB#0	3000~20000	-32.76	PASS



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Band4	5MHz	16QAM	20175	1RB#0	0.009~0.15	-60.64	PASS
Band4	5MHz	16QAM	20175	1RB#0	0.15~30	-52.79	PASS
Band4	5MHz	16QAM	20175	1RB#0	30~1000	-53.83	PASS
Band4	5MHz	16QAM	20175	1RB#0	1000~3000	-34.01	PASS
Band4	5MHz	16QAM	20175	1RB#0	3000~20000	-33.30	PASS
Band4	5MHz	QPSK	20375	1RB#0	0.009~0.15	-56.82	PASS
Band4	5MHz	QPSK	20375	1RB#0	0.15~30	-52.31	PASS
Band4	5MHz	QPSK	20375	1RB#0	30~1000	-53.90	PASS
Band4	5MHz	QPSK	20375	1RB#0	1000~3000	-37.62	PASS
Band4	5MHz	QPSK	20375	1RB#0	3000~20000	-33.02	PASS
Band4	5MHz	16QAM	20375	1RB#0	0.009~0.15	-57.25	PASS
Band4	5MHz	16QAM	20375	1RB#0	0.15~30	-53.54	PASS
Band4	5MHz	16QAM	20375	1RB#0	30~1000	-53.83	PASS
Band4	5MHz	16QAM	20375	1RB#0	1000~3000	-37.39	PASS
Band4	5MHz	16QAM	20375	1RB#0	3000~20000	-33.37	PASS
Band4	10MHz	QPSK	20000	1RB#0	0.009~0.15	-57.06	PASS
Band4	10MHz	QPSK	20000	1RB#0	0.15~30	-51.16	PASS
Band4	10MHz	QPSK	20000	1RB#0	30~1000	-53.82	PASS
Band4	10MHz	QPSK	20000	1RB#0	1000~3000	-48.07	PASS
Band4	10MHz	QPSK	20000	1RB#0	3000~20000	-33.35	PASS
Band4	10MHz	16QAM	20000	1RB#0	0.009~0.15	-57.53	PASS
Band4	10MHz	16QAM	20000	1RB#0	0.15~30	-52.50	PASS
Band4	10MHz	16QAM	20000	1RB#0	30~1000	-53.69	PASS
Band4	10MHz	16QAM	20000	1RB#0	1000~3000	-48.15	PASS
Band4	10MHz	16QAM	20000	1RB#0	3000~20000	-33.15	PASS
Band4	10MHz	QPSK	20175	1RB#0	0.009~0.15	-59.03	PASS
Band4	10MHz	QPSK	20175	1RB#0	0.15~30	-51.98	PASS
Band4	10MHz	QPSK	20175	1RB#0	30~1000	-53.88	PASS
Band4	10MHz	QPSK	20175	1RB#0	1000~3000	-48.11	PASS
Band4	10MHz	QPSK	20175	1RB#0	3000~20000	-33.45	PASS
Band4	10MHz	16QAM	20175	1RB#0	0.009~0.15	-56.76	PASS
Band4	10MHz	16QAM	20175	1RB#0	0.15~30	-53.34	PASS
Band4	10MHz	16QAM	20175	1RB#0	30~1000	-53.82	PASS
Band4	10MHz	16QAM	20175	1RB#0	1000~3000	-47.90	PASS
Band4	10MHz	16QAM	20175	1RB#0	3000~20000	-33.62	PASS
Band4	10MHz	QPSK	20350	1RB#0	0.009~0.15	-57.30	PASS
Band4	10MHz	QPSK	20350	1RB#0	0.15~30	-54.23	PASS
Band4	10MHz	QPSK	20350	1RB#0	30~1000	-53.93	PASS
Band4	10MHz	QPSK	20350	1RB#0	1000~3000	-47.59	PASS
Band4	10MHz	QPSK	20350	1RB#0	3000~20000	-32.87	PASS



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Band4	10MHz	16QAM	20350	1RB#0	0.009~0.15	-56.20	PASS
Band4	10MHz	16QAM	20350	1RB#0	0.15~30	-53.06	PASS
Band4	10MHz	16QAM	20350	1RB#0	30~1000	-53.87	PASS
Band4	10MHz	16QAM	20350	1RB#0	1000~3000	-48.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	3000~20000	-33.03	PASS
Band4	15MHz	QPSK	20025	1RB#0	0.009~0.15	-58.47	PASS
Band4	15MHz	QPSK	20025	1RB#0	0.15~30	-51.60	PASS
Band4	15MHz	QPSK	20025	1RB#0	30~1000	-53.77	PASS
Band4	15MHz	QPSK	20025	1RB#0	1000~3000	-47.47	PASS
Band4	15MHz	QPSK	20025	1RB#0	3000~20000	-33.24	PASS
Band4	15MHz	16QAM	20025	1RB#0	0.009~0.15	-58.71	PASS
Band4	15MHz	16QAM	20025	1RB#0	0.15~30	-52.80	PASS
Band4	15MHz	16QAM	20025	1RB#0	30~1000	-53.89	PASS
Band4	15MHz	16QAM	20025	1RB#0	1000~3000	-47.82	PASS
Band4	15MHz	16QAM	20025	1RB#0	3000~20000	-33.11	PASS
Band4	15MHz	QPSK	20175	1RB#0	0.009~0.15	-56.96	PASS
Band4	15MHz	QPSK	20175	1RB#0	0.15~30	-54.74	PASS
Band4	15MHz	QPSK	20175	1RB#0	30~1000	-53.88	PASS
Band4	15MHz	QPSK	20175	1RB#0	1000~3000	-46.94	PASS
Band4	15MHz	QPSK	20175	1RB#0	3000~20000	-33.24	PASS
Band4	15MHz	16QAM	20175	1RB#0	0.009~0.15	-57.75	PASS
Band4	15MHz	16QAM	20175	1RB#0	0.15~30	-52.03	PASS
Band4	15MHz	16QAM	20175	1RB#0	30~1000	-53.91	PASS
Band4	15MHz	16QAM	20175	1RB#0	1000~3000	-47.19	PASS
Band4	15MHz	16QAM	20175	1RB#0	3000~20000	-33.13	PASS
Band4	15MHz	QPSK	20325	1RB#0	0.009~0.15	-60.32	PASS
Band4	15MHz	QPSK	20325	1RB#0	0.15~30	-53.41	PASS
Band4	15MHz	QPSK	20325	1RB#0	30~1000	-53.84	PASS
Band4	15MHz	QPSK	20325	1RB#0	1000~3000	-48.01	PASS
Band4	15MHz	QPSK	20325	1RB#0	3000~20000	-33.05	PASS
Band4	15MHz	16QAM	20325	1RB#0	0.009~0.15	-61.99	PASS
Band4	15MHz	16QAM	20325	1RB#0	0.15~30	-51.83	PASS
Band4	15MHz	16QAM	20325	1RB#0	30~1000	-53.94	PASS
Band4	15MHz	16QAM	20325	1RB#0	1000~3000	-47.71	PASS
Band4	15MHz	16QAM	20325	1RB#0	3000~20000	-32.97	PASS
Band4	20MHz	QPSK	20050	1RB#0	0.009~0.15	-59.72	PASS
Band4	20MHz	QPSK	20050	1RB#0	0.15~30	-53.69	PASS
Band4	20MHz	QPSK	20050	1RB#0	30~1000	-53.78	PASS
Band4	20MHz	QPSK	20050	1RB#0	1000~3000	-41.42	PASS
Band4	20MHz	QPSK	20050	1RB#0	3000~20000	-32.92	PASS



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Band4	20MHz	16QAM	20050	1RB#0	0.009~0.15	-59.14	PASS
Band4	20MHz	16QAM	20050	1RB#0	0.15~30	-52.66	PASS
Band4	20MHz	16QAM	20050	1RB#0	30~1000	-53.75	PASS
Band4	20MHz	16QAM	20050	1RB#0	1000~3000	-41.83	PASS
Band4	20MHz	16QAM	20050	1RB#0	3000~20000	-33.36	PASS
Band4	20MHz	QPSK	20175	1RB#0	0.009~0.15	-59.16	PASS
Band4	20MHz	QPSK	20175	1RB#0	0.15~30	-53.67	PASS
Band4	20MHz	QPSK	20175	1RB#0	30~1000	-53.84	PASS
Band4	20MHz	QPSK	20175	1RB#0	1000~3000	-47.90	PASS
Band4	20MHz	QPSK	20175	1RB#0	3000~20000	-33.42	PASS
Band4	20MHz	16QAM	20175	1RB#0	0.009~0.15	-56.84	PASS
Band4	20MHz	16QAM	20175	1RB#0	0.15~30	-54.40	PASS
Band4	20MHz	16QAM	20175	1RB#0	30~1000	-53.89	PASS
Band4	20MHz	16QAM	20175	1RB#0	1000~3000	-48.11	PASS
Band4	20MHz	16QAM	20175	1RB#0	3000~20000	-33.18	PASS
Band4	20MHz	QPSK	20300	1RB#0	0.009~0.15	-59.95	PASS
Band4	20MHz	QPSK	20300	1RB#0	0.15~30	-54.45	PASS
Band4	20MHz	QPSK	20300	1RB#0	30~1000	-53.82	PASS
Band4	20MHz	QPSK	20300	1RB#0	1000~3000	-47.87	PASS
Band4	20MHz	QPSK	20300	1RB#0	3000~20000	-33.06	PASS
Band4	20MHz	16QAM	20300	1RB#0	0.009~0.15	-55.69	PASS
Band4	20MHz	16QAM	20300	1RB#0	0.15~30	-52.62	PASS
Band4	20MHz	16QAM	20300	1RB#0	30~1000	-53.75	PASS
Band4	20MHz	16QAM	20300	1RB#0	1000~3000	-47.58	PASS
Band4	20MHz	16QAM	20300	1RB#0	3000~20000	-33.46	PASS





Test Graphs

