



Appendix H: Test Data for E-UTRA Band 5

Product Name: SFO1

Test Model: SFO1

Environmental Conditions

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





H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.94	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.29	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.09	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.16	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.97	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.20	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.04	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.21	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.03	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.26	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.01	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.14	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.01	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.06	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.12	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.93	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.04	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.80	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.16	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.90	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.14	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.91	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.14	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.91	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.07	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.98	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.83	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.76	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.87	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.87	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.81	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.75	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.99	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.76	PASS





Band5	1.4MHz	QPSK	20643	3RB#1	22.99	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.77	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.90	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.70	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.93	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.95	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.12	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.11	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.16	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.18	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.11	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.07	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.17	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.15	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.12	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.16	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.19	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.10	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.12	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.16	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.13	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.99	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.16	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.95	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.15	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.87	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.06	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.01	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.08	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.06	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.05	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.07	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.01	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.99	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.79	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.97	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.80	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.90	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.72	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.99	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.99	PASS





Band5	3MHz	QPSK	20635	8RB#4	22.02	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.98	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.99	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.96	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.96	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.90	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.10	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.02	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.25	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.12	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.13	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.01	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.16	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.07	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.13	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.10	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.15	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.09	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.15	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.20	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.97	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.07	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.14	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.20	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.95	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.01	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.08	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.09	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.08	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.07	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.07	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.11	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.11	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.07	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.93	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.79	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.09	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.93	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.82	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.64	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.00	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.99	PASS





Band5	5MHz	QPSK	20625	12RB#6	21.97	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.00	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.93	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.96	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.02	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.04	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.14	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.18	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.29	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.22	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.10	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.09	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.26	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.25	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.25	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.23	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.23	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.21	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.26	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.23	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.14	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.08	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.12	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.10	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.02	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.88	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.16	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.20	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.17	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.19	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.16	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.21	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.15	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.14	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.02	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.81	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.07	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.84	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.92	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.71	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.17	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.20	PASS





Band5	10MHz	QPSK	20600	25RB#12	22.16	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.19	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.09	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.10	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.10	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.08	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.72	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.74	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.29	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.06	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.21	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.95	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.59	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.37	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.98	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.11	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.44	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.26	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.72	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.59	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.31	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.09	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.13	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.86	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.63	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.37	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.56	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.67	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.40	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.26	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.86	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.46	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.51	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.16	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.16	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.84	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.73	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.38	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.94	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.71	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.55	13	PASS



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Band5	5MHz	16QAM	20625	25RB#0	6.24	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.71	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.58	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.22	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.73	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.53	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.61	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.36	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.73	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.83	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.55	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.24	13	PASS





Test Graphs



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H.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0890	1.285	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0964	1.294	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0981	1.289	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0895	1.281	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0994	1.287	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0850	1.271	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6826	2.897	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6792	2.910	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6891	2.900	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6855	2.906	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6893	2.900	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6813	2.893	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5032	4.937	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4943	4.901	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4952	4.905	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4974	4.960	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5023	4.912	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5025	4.930	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9948	9.828	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9880	9.726	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9840	9.748	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9905	9.739	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9867	9.721	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9837	9.755	PASS





Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

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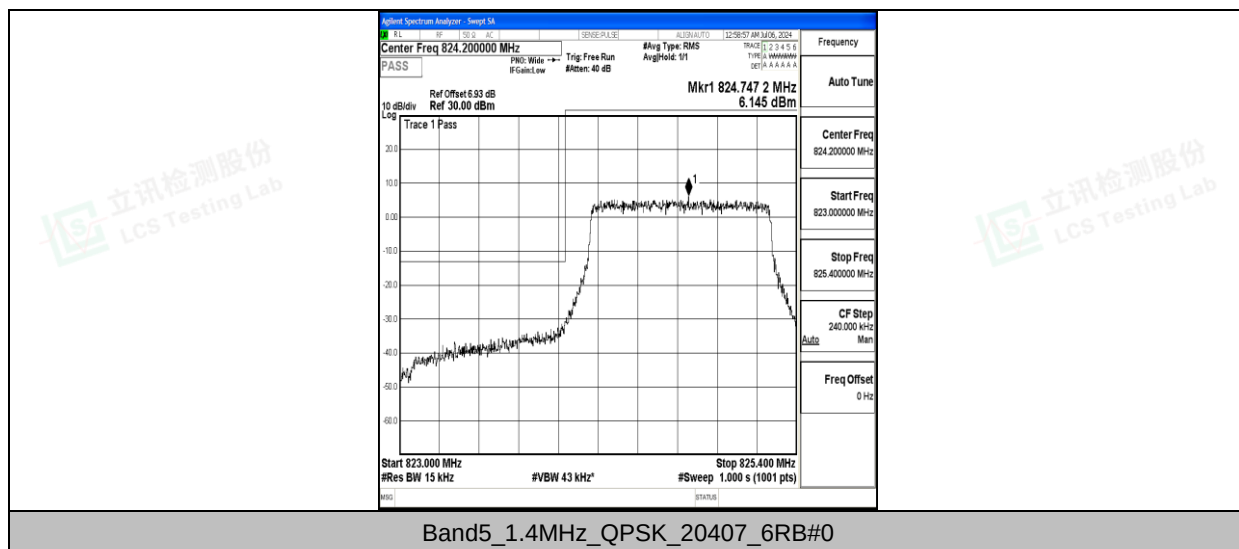


H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	823.98	-31.40	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	823.98	-31.97	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	849.00	-31.85	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	849.02	-33.11	PASS
Band5	3MHz	QPSK	20415	15RB#0	824.00	-31.46	PASS
Band5	3MHz	16QAM	20415	15RB#0	824.00	-32.49	PASS
Band5	3MHz	QPSK	20635	15RB#0	849.00	-32.86	PASS
Band5	3MHz	16QAM	20635	15RB#0	849.02	-33.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	824.00	-31.05	PASS
Band5	5MHz	16QAM	20425	25RB#0	824.00	-31.41	PASS
Band5	5MHz	QPSK	20625	25RB#0	849.01	-32.51	PASS
Band5	5MHz	16QAM	20625	25RB#0	849.00	-32.00	PASS
Band5	10MHz	QPSK	20450	50RB#0	823.98	-33.07	PASS
Band5	10MHz	16QAM	20450	50RB#0	823.98	-34.15	PASS
Band5	10MHz	QPSK	20600	50RB#0	849.04	-33.20	PASS
Band5	10MHz	16QAM	20600	50RB#0	849.08	-34.10	PASS

Test Graphs

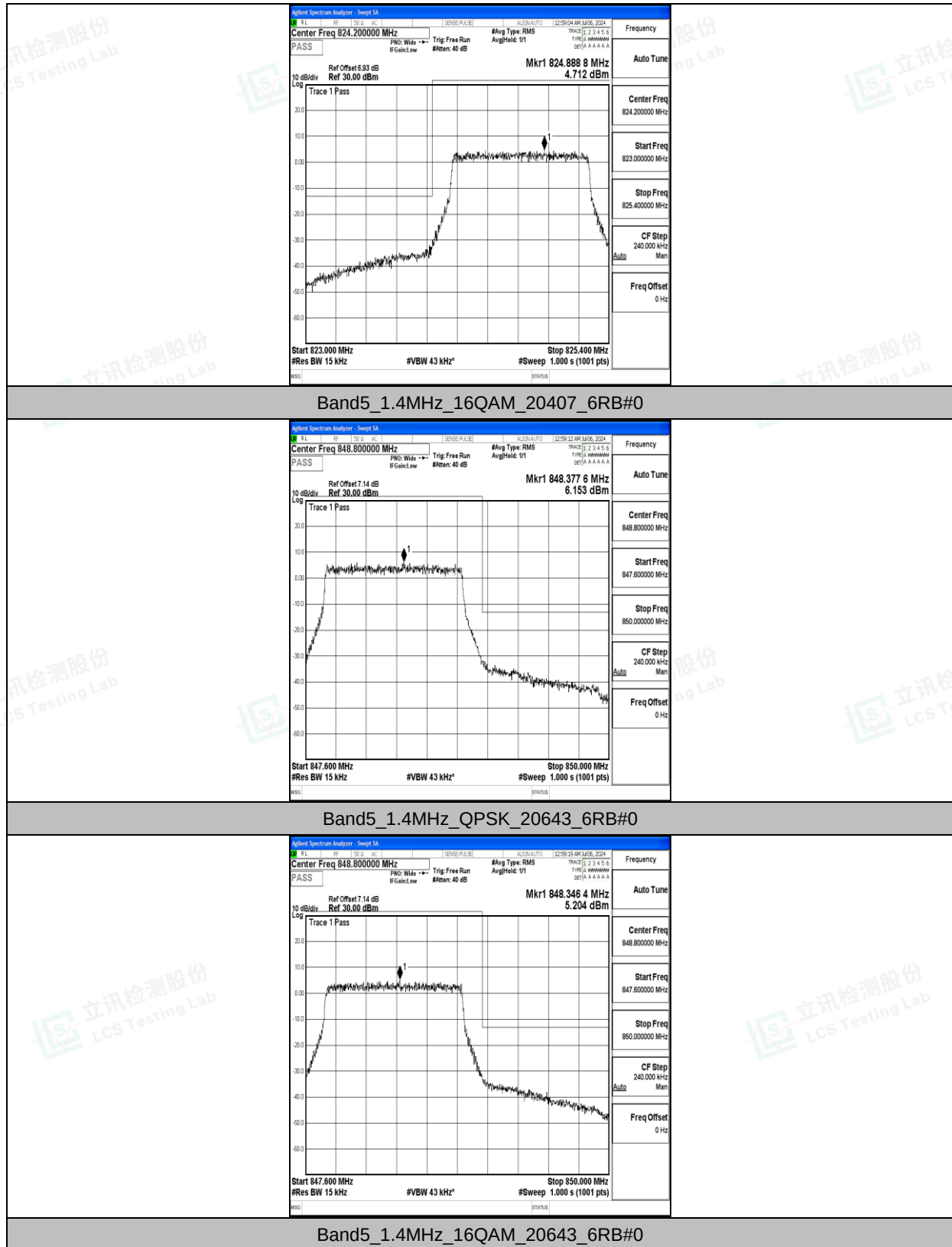


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