



Appendix I: Test Data for E-UTRA Band 13

Product Name: 4G Smart Phone
Test Model: L66F

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





I.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.21	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.75	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.34	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.87	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.30	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.75	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.95	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.90	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.97	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.89	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.09	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.15	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.07	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.24	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.16	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.50	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.26	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.42	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.23	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.47	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.14	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.05	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.15	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.07	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.01	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.05	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.02	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.12	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.20	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.09	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.13	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.10	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.21	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.29	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.09	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.14	PASS





Band13	5MHz	QPSK	23255	12RB#6	23.08	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.15	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.19	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.32	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.01	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.15	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.99	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.75	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.12	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.80	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.23	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.89	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.08	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.11	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.02	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.11	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.03	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.11	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.17	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.10	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.97	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.10	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.47	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.14	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.83	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.82	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.52	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.22	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.69	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.61	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.25	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.97	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.93	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.10	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.41	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.14	13	PASS





Test Graphs

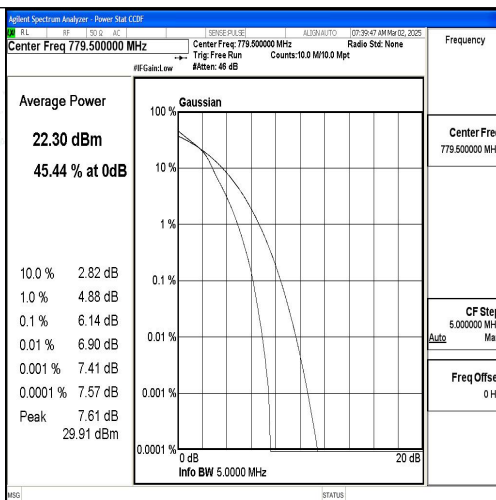


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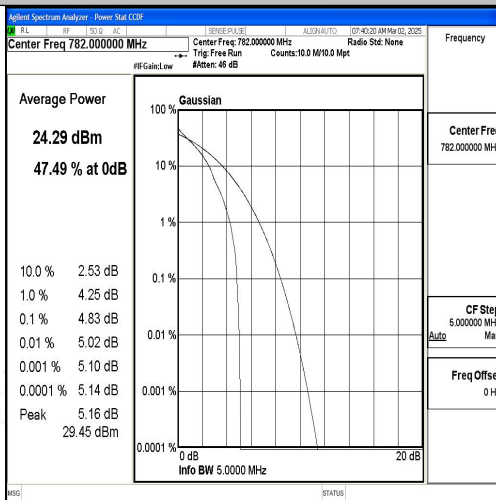
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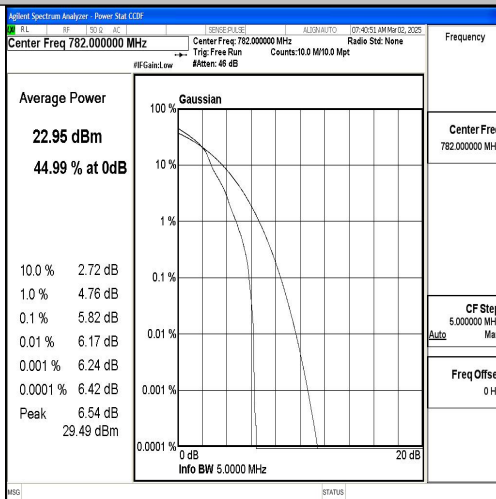
Scan code to check authenticity



Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-QPSK-23230-1RB#0-PASS



Band13-5MHz-16QAM-23230-1RB#0-PASS

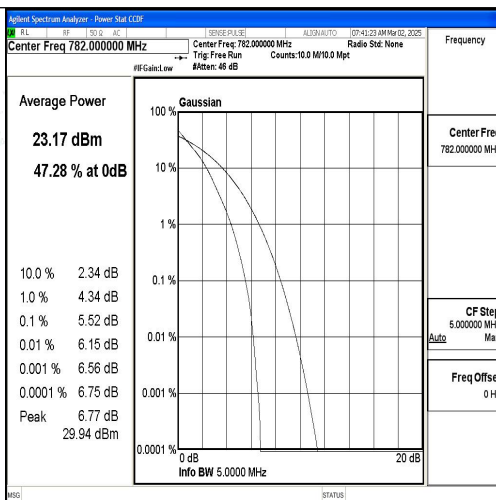


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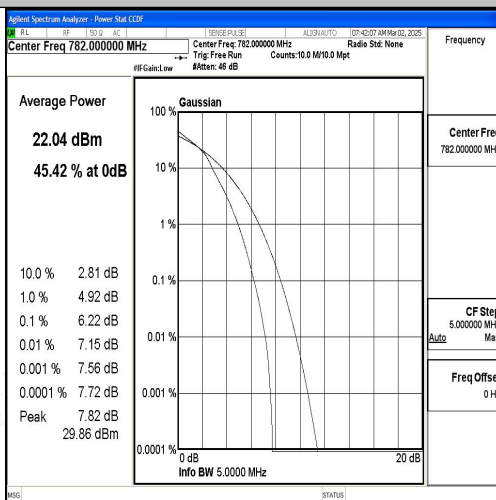
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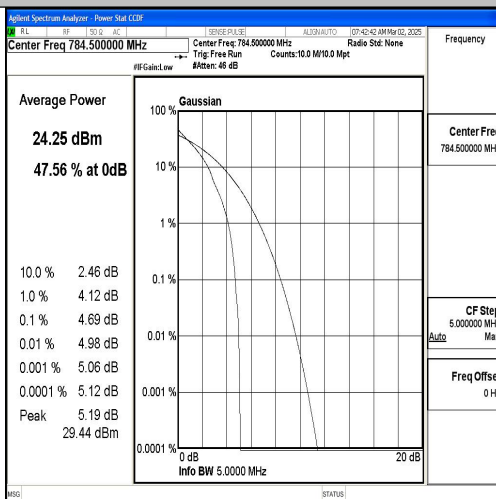
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Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS



Band13-5MHz-QPSK-23255-1RB#0-PASS

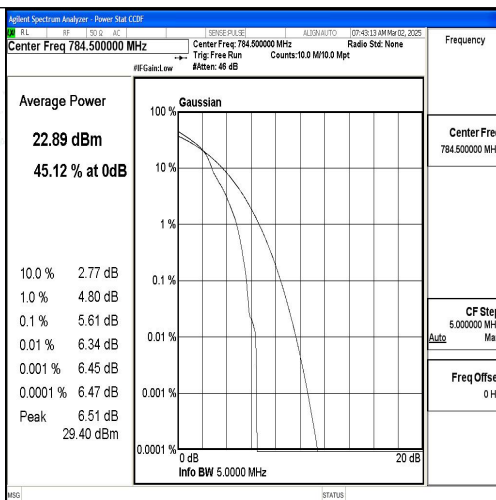


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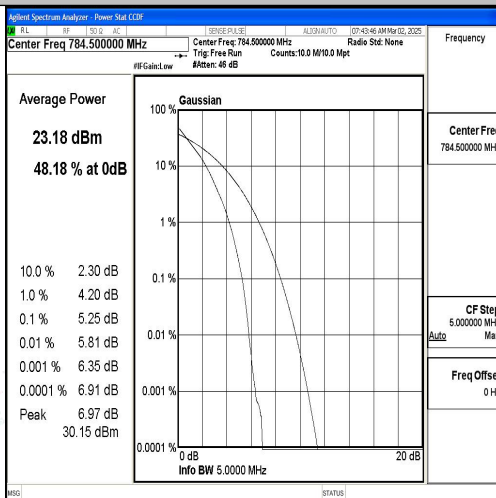
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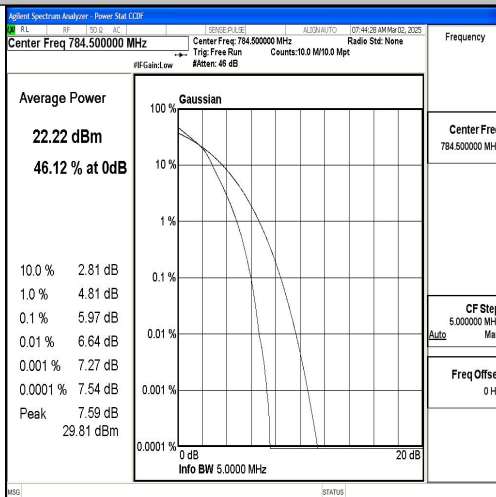
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Band13-5MHz-16QAM-23255-1RB#0-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS

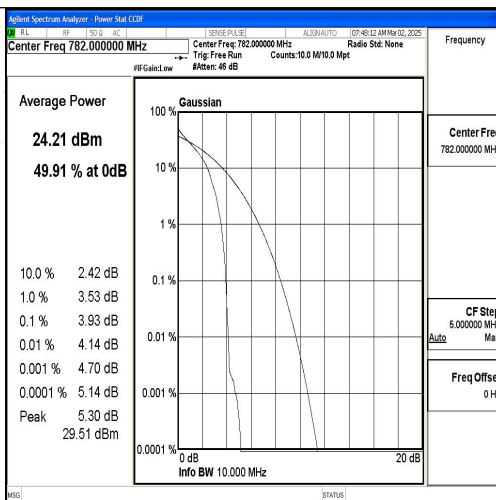


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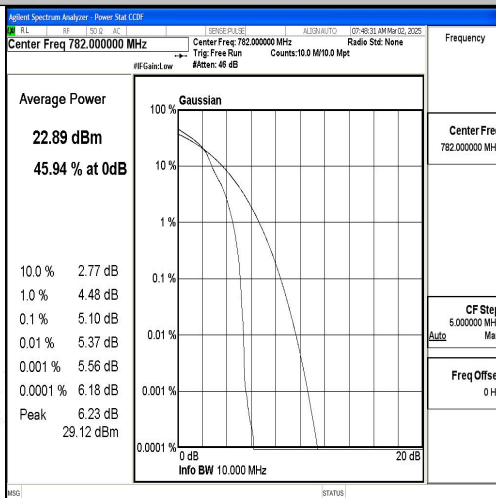
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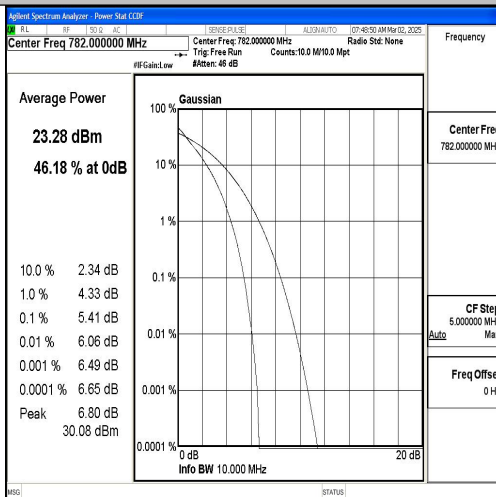
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Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS

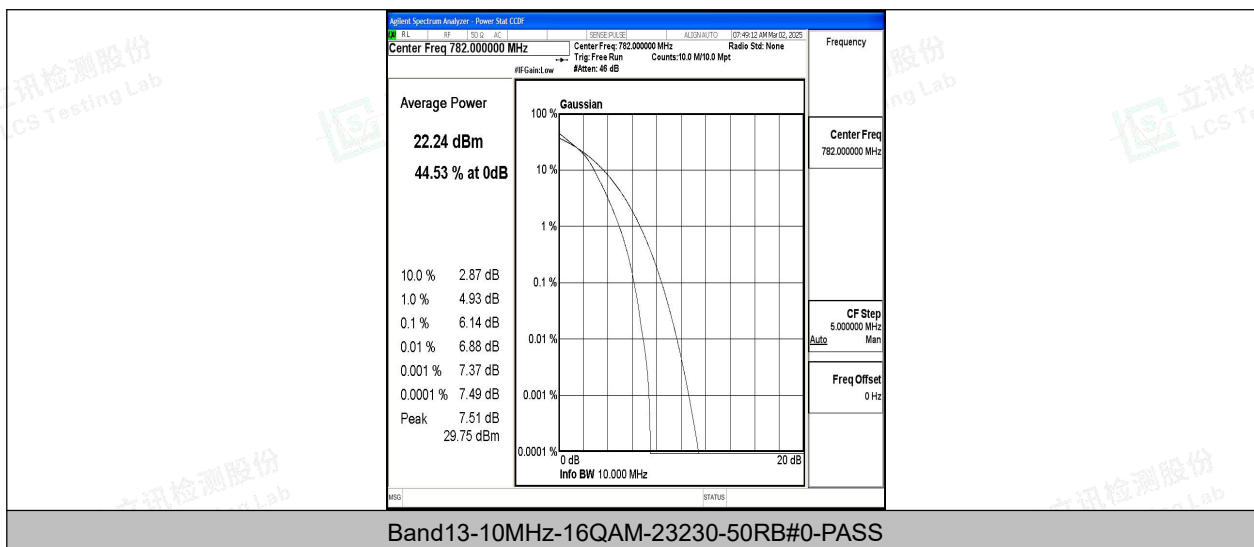


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I.3 26dB Bandwidth and Occupied Bandwidth

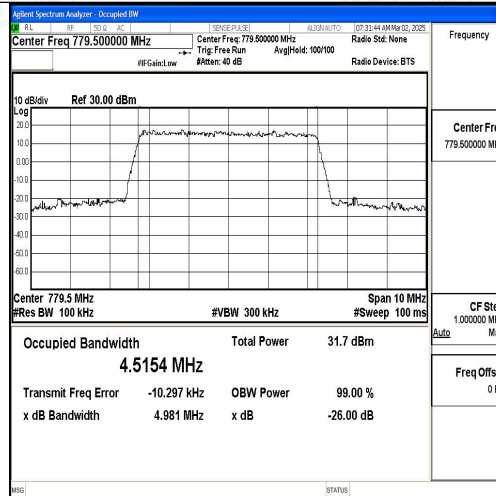
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5154	4.981	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5165	4.981	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5078	4.966	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5132	4.990	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5021	4.971	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5162	5.000	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0168	9.921	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0082	9.978	PASS

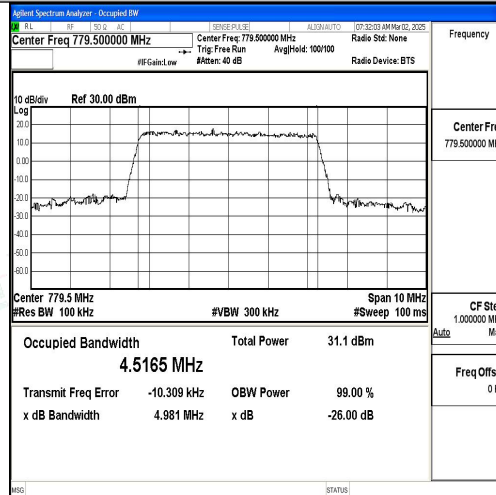




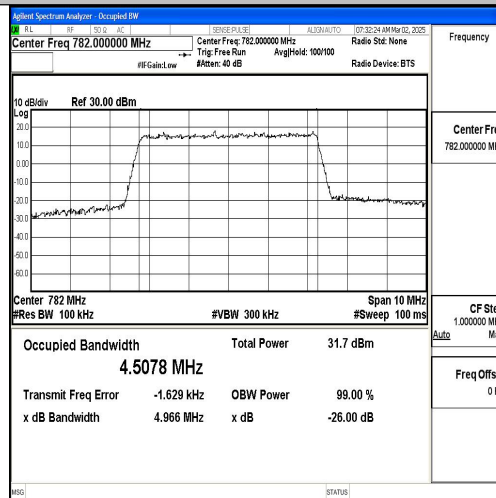
Test Graphs



Band13-5MHz-QPSK-23205-25RB#0-PASS



Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-QPSK-23230-25RB#0-PASS

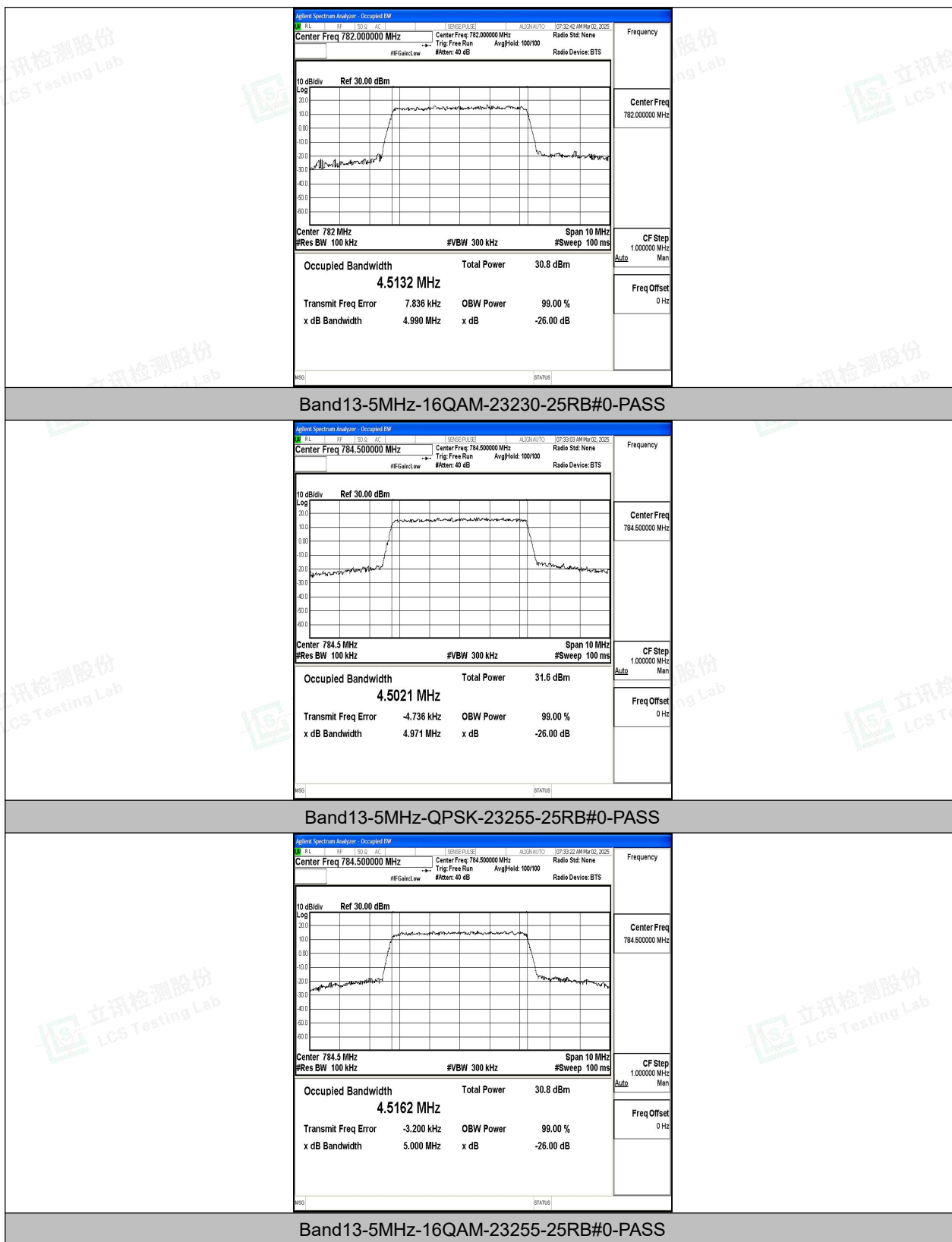


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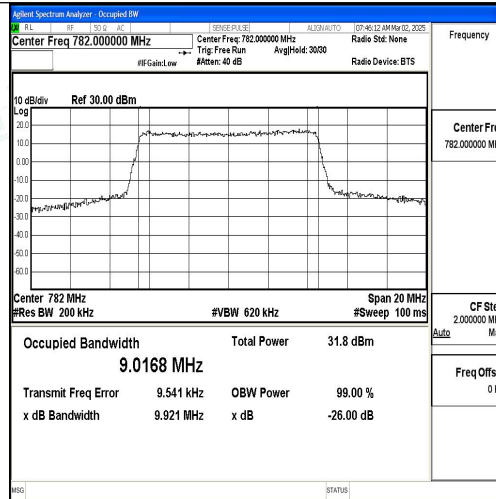


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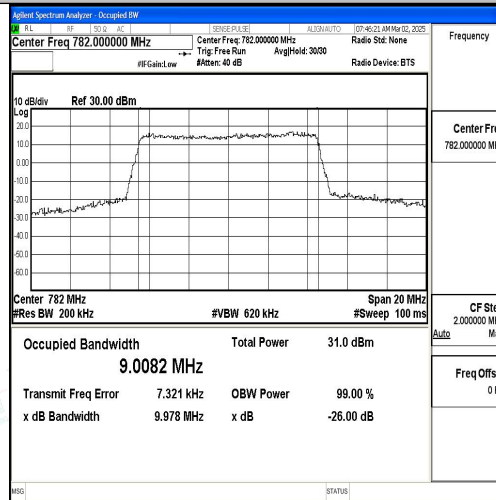
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Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS



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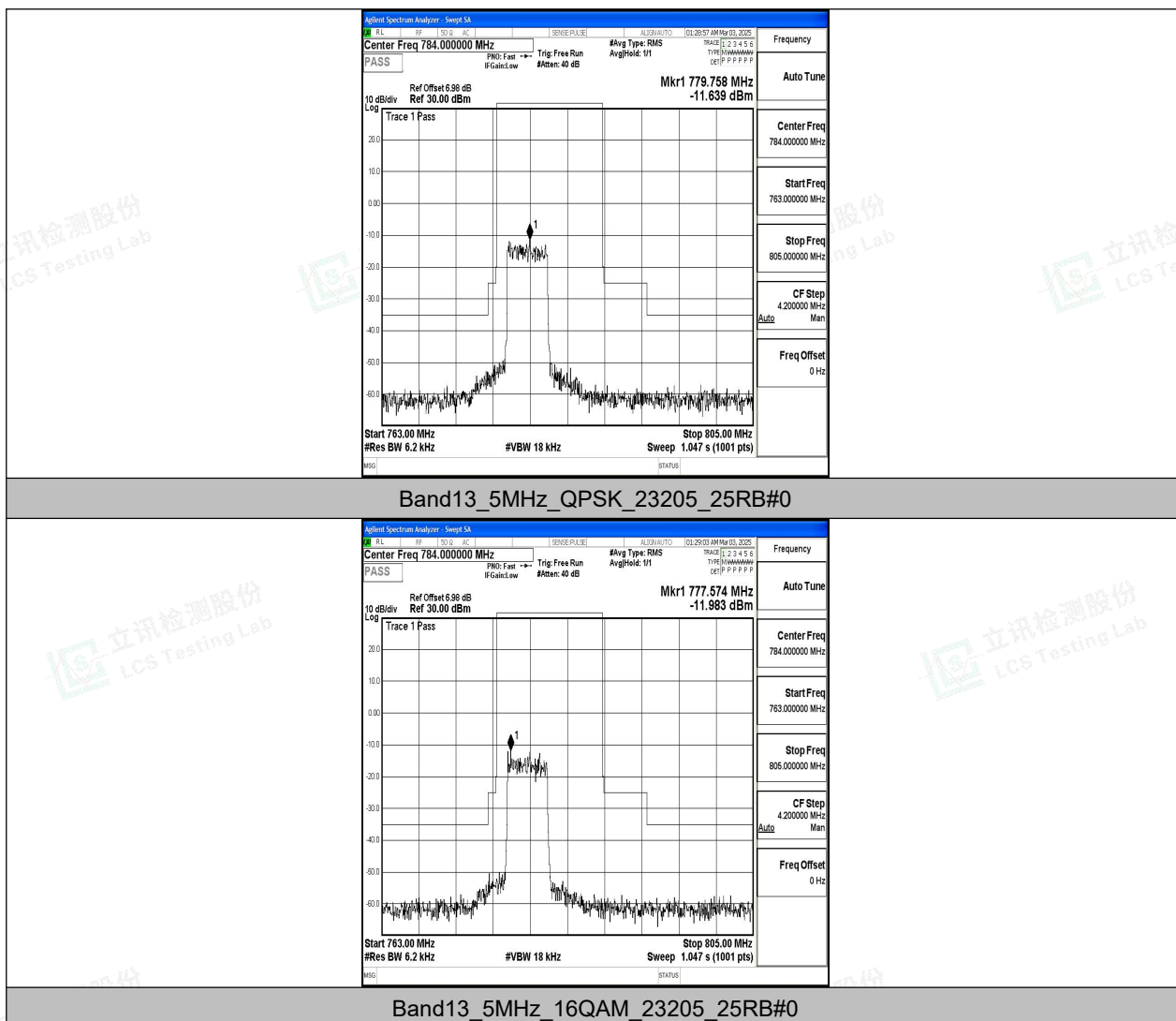


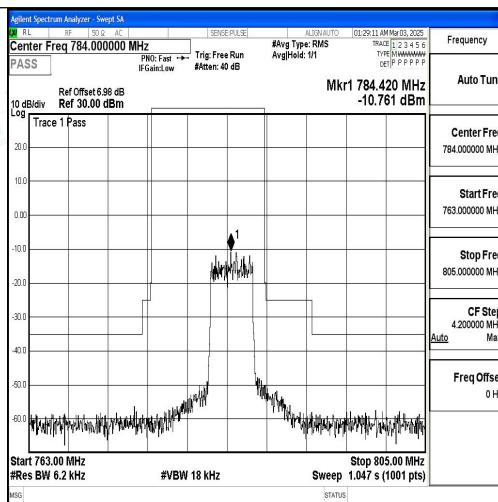
I.4 Band Edge

Test Result

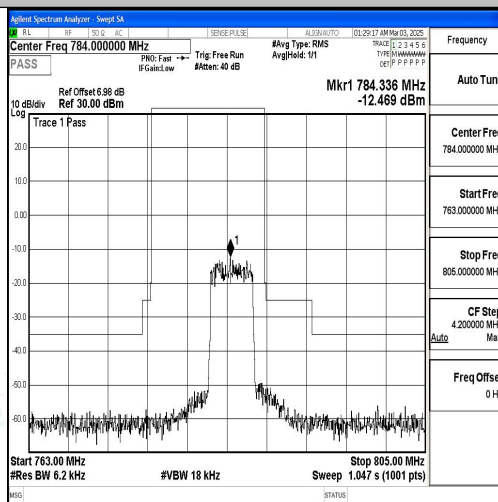
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.80	-52.78	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.84	-54.00	PASS
Band13	5MHz	QPSK	23255	25RB#0	774.21	-56.39	PASS
Band13	5MHz	16QAM	23255	25RB#0	799.92	-56.14	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.30	-54.20	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.89	-54.71	PASS

Test Graphs

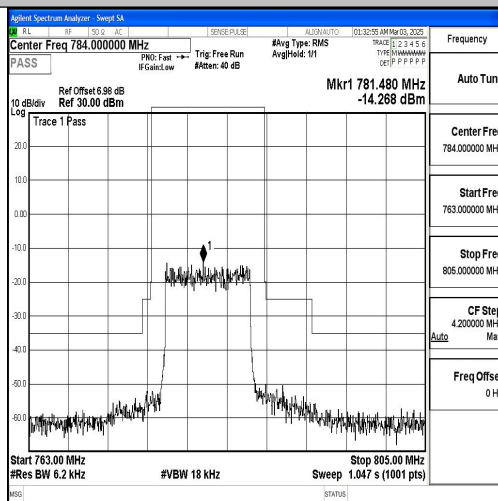




Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0

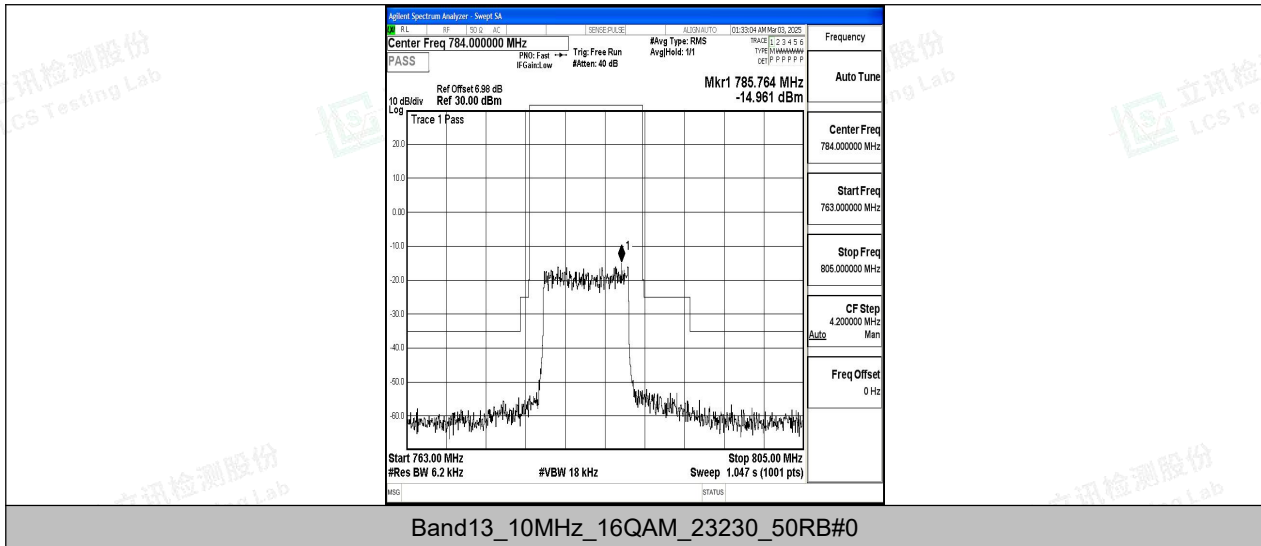


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I.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-57.62	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-46.08	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-53.14	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-37.88	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.14	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-58.71	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-47.25	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-53.20	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-39.34	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.14	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-58.90	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-47.57	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-52.29	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-38.38	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.19	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-54.90	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-45.94	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.10	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.47	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.00	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-59.10	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-45.74	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-53.23	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-38.13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.56	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-55.32	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-45.19	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-52.37	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-38.73	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.26	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-57.52	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-44.38	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-52.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-38.80	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-34.71	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-57.18	PASS



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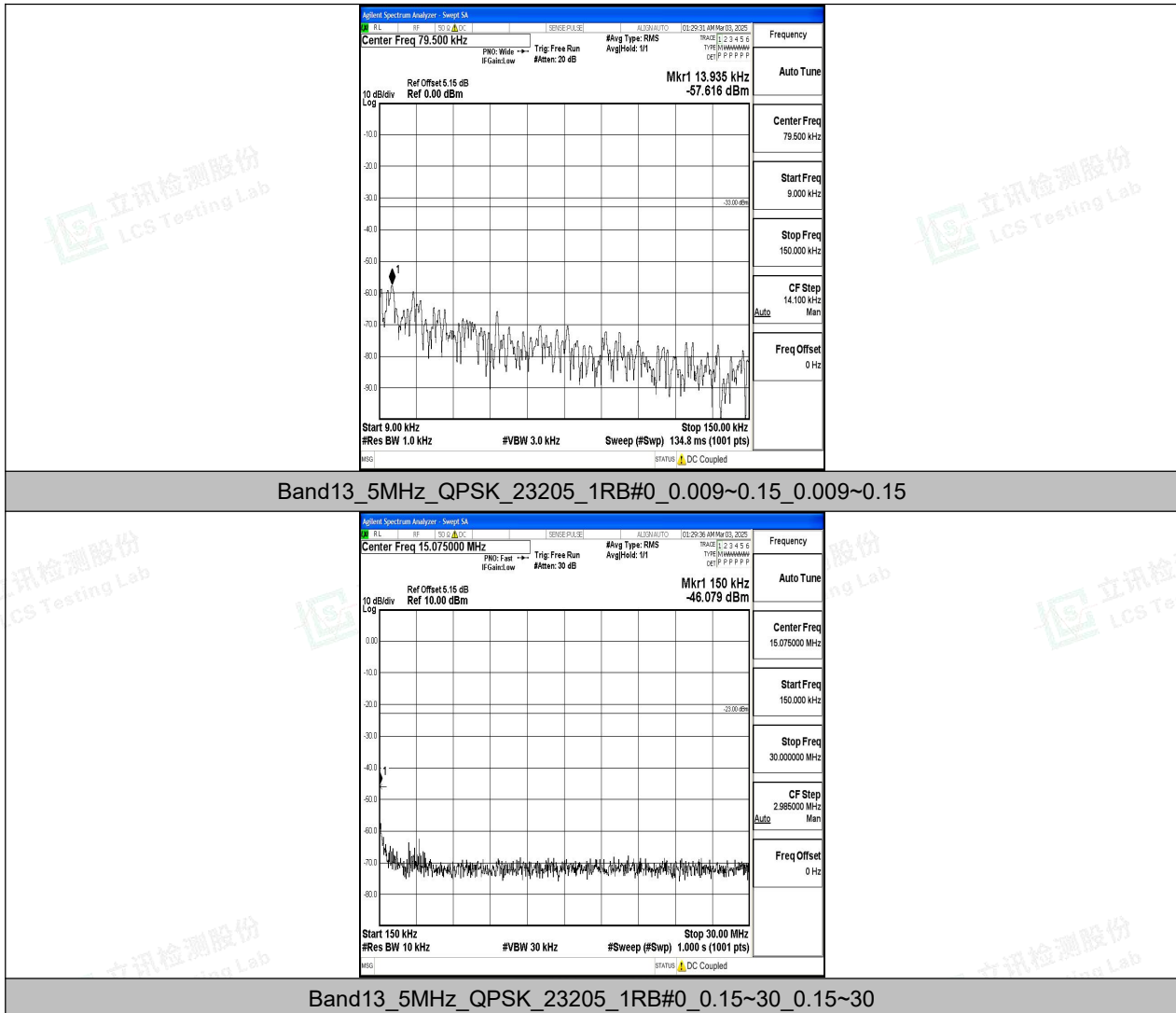
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Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-45.82	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-53.41	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-38.41	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.61	PASS

Test Graphs



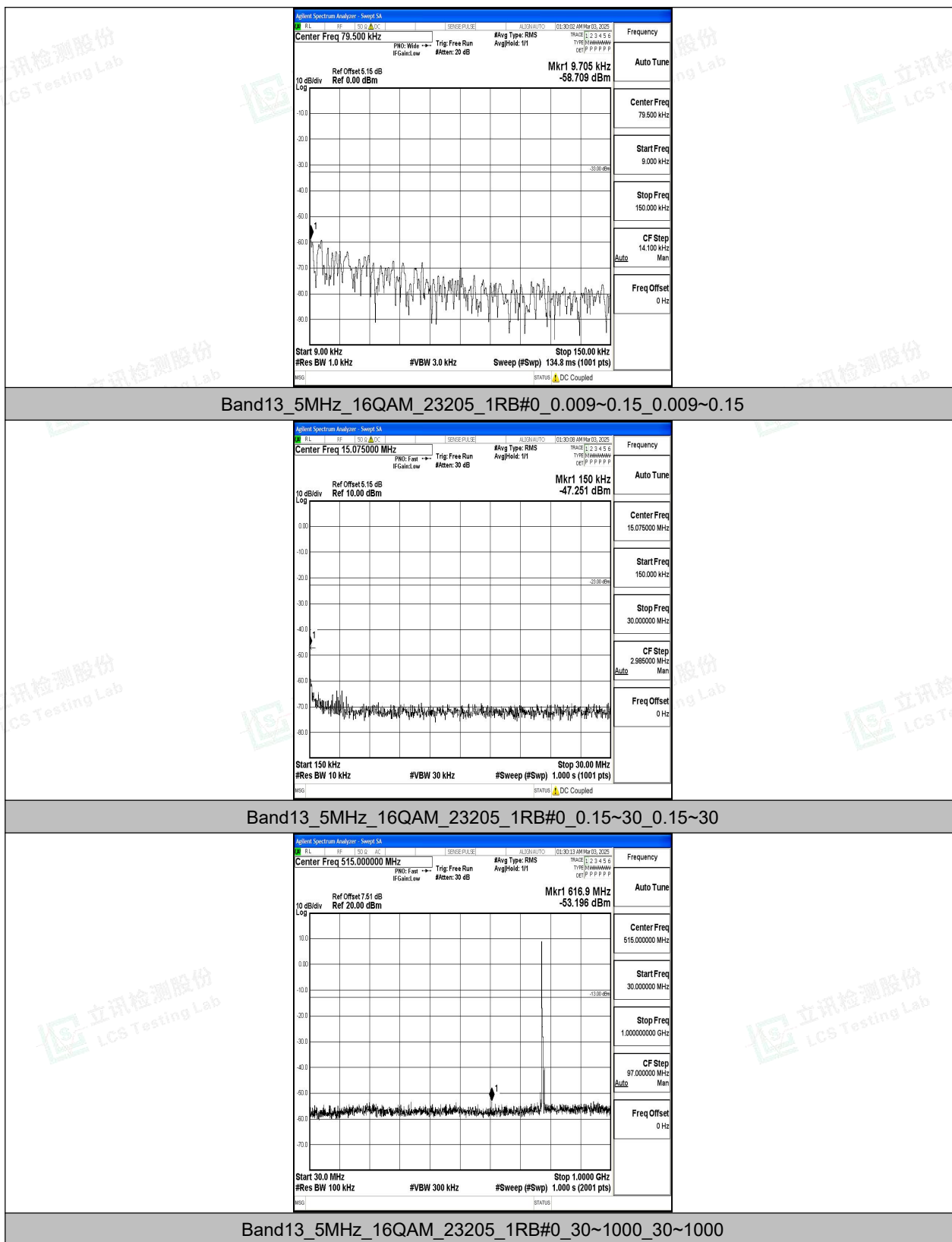
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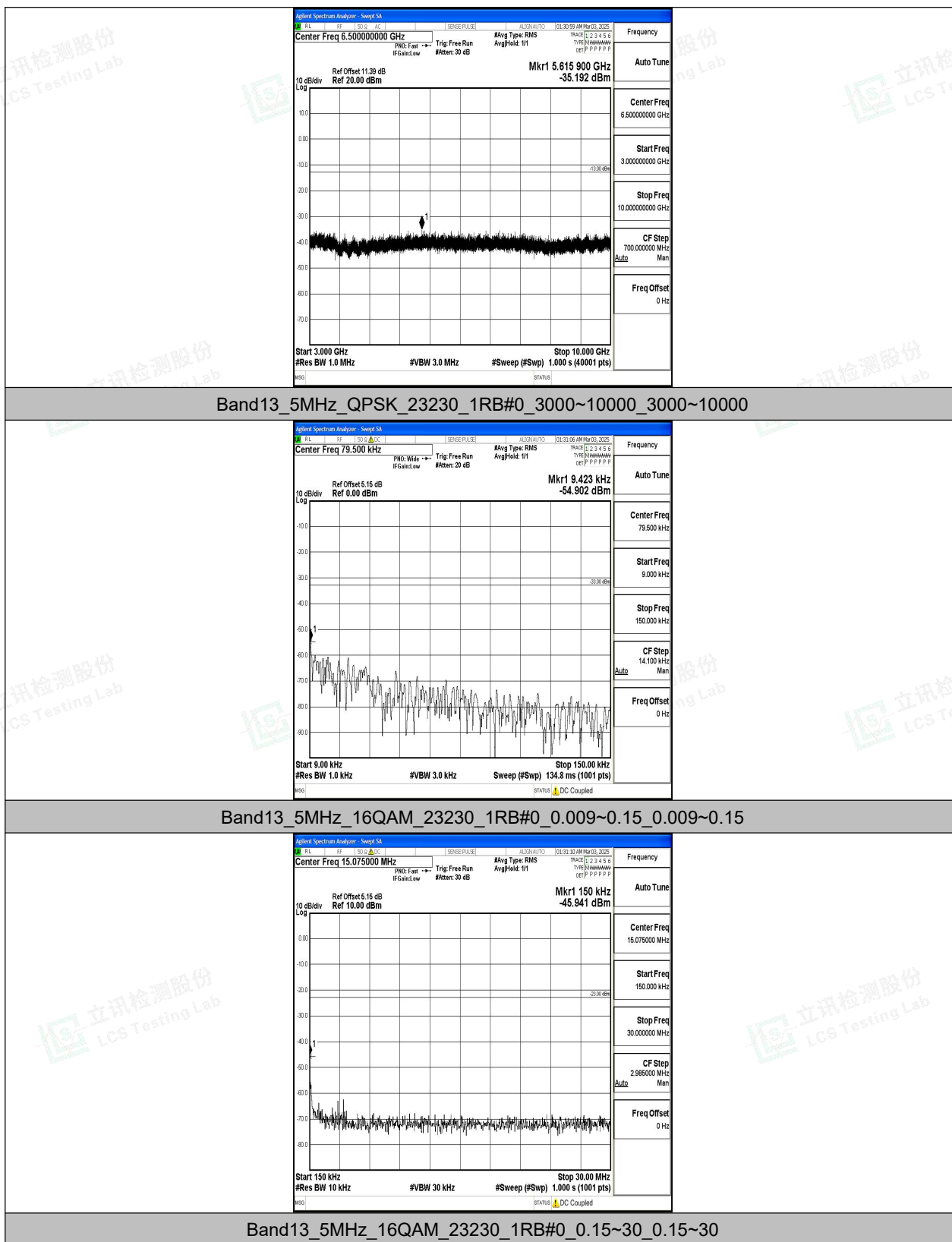
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