



Appendix K: Test Data for E-UTRA Band 17

Product Name: Mstick4
Test Model: MG-S04

Environmental Conditions

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





K.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	19.87	PASS
Band17	5MHz	16QAM	23755	1RB#0	18.76	PASS
Band17	5MHz	QPSK	23755	1RB#12	19.87	PASS
Band17	5MHz	16QAM	23755	1RB#12	18.87	PASS
Band17	5MHz	QPSK	23755	1RB#24	19.79	PASS
Band17	5MHz	16QAM	23755	1RB#24	18.69	PASS
Band17	5MHz	QPSK	23755	12RB#0	18.76	PASS
Band17	5MHz	16QAM	23755	12RB#0	17.79	PASS
Band17	5MHz	QPSK	23755	12RB#6	18.79	PASS
Band17	5MHz	16QAM	23755	12RB#6	17.82	PASS
Band17	5MHz	QPSK	23755	12RB#13	18.86	PASS
Band17	5MHz	16QAM	23755	12RB#13	17.87	PASS
Band17	5MHz	QPSK	23755	25RB#0	18.85	PASS
Band17	5MHz	16QAM	23755	25RB#0	17.89	PASS
Band17	5MHz	QPSK	23790	1RB#0	19.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	18.82	PASS
Band17	5MHz	QPSK	23790	1RB#12	19.81	PASS
Band17	5MHz	16QAM	23790	1RB#12	18.90	PASS
Band17	5MHz	QPSK	23790	1RB#24	19.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	18.80	PASS
Band17	5MHz	QPSK	23790	12RB#0	18.72	PASS
Band17	5MHz	16QAM	23790	12RB#0	17.75	PASS
Band17	5MHz	QPSK	23790	12RB#6	18.68	PASS
Band17	5MHz	16QAM	23790	12RB#6	17.75	PASS
Band17	5MHz	QPSK	23790	12RB#13	18.87	PASS
Band17	5MHz	16QAM	23790	12RB#13	17.86	PASS
Band17	5MHz	QPSK	23790	25RB#0	18.79	PASS
Band17	5MHz	16QAM	23790	25RB#0	17.81	PASS
Band17	5MHz	QPSK	23825	1RB#0	19.86	PASS
Band17	5MHz	16QAM	23825	1RB#0	18.69	PASS
Band17	5MHz	QPSK	23825	1RB#12	19.88	PASS
Band17	5MHz	16QAM	23825	1RB#12	18.84	PASS
Band17	5MHz	QPSK	23825	1RB#24	19.78	PASS
Band17	5MHz	16QAM	23825	1RB#24	18.71	PASS
Band17	5MHz	QPSK	23825	12RB#0	18.87	PASS
Band17	5MHz	16QAM	23825	12RB#0	17.91	PASS



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Band17	5MHz	QPSK	23825	12RB#6	18.85	PASS
Band17	5MHz	16QAM	23825	12RB#6	17.93	PASS
Band17	5MHz	QPSK	23825	12RB#13	18.78	PASS
Band17	5MHz	16QAM	23825	12RB#13	17.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	18.85	PASS
Band17	5MHz	16QAM	23825	25RB#0	17.93	PASS
Band17	10MHz	QPSK	23780	1RB#0	19.81	PASS
Band17	10MHz	16QAM	23780	1RB#0	18.82	PASS
Band17	10MHz	QPSK	23780	1RB#24	19.93	PASS
Band17	10MHz	16QAM	23780	1RB#24	19.01	PASS
Band17	10MHz	QPSK	23780	1RB#49	19.87	PASS
Band17	10MHz	16QAM	23780	1RB#49	18.85	PASS
Band17	10MHz	QPSK	23780	25RB#0	18.83	PASS
Band17	10MHz	16QAM	23780	25RB#0	17.86	PASS
Band17	10MHz	QPSK	23780	25RB#12	18.82	PASS
Band17	10MHz	16QAM	23780	25RB#12	17.81	PASS
Band17	10MHz	QPSK	23780	25RB#25	18.92	PASS
Band17	10MHz	16QAM	23780	25RB#25	17.93	PASS
Band17	10MHz	QPSK	23780	50RB#0	18.81	PASS
Band17	10MHz	16QAM	23780	50RB#0	17.87	PASS
Band17	10MHz	QPSK	23790	1RB#0	19.84	PASS
Band17	10MHz	16QAM	23790	1RB#0	18.72	PASS
Band17	10MHz	QPSK	23790	1RB#24	20.06	PASS
Band17	10MHz	16QAM	23790	1RB#24	18.74	PASS
Band17	10MHz	QPSK	23790	1RB#49	19.89	PASS
Band17	10MHz	16QAM	23790	1RB#49	18.74	PASS
Band17	10MHz	QPSK	23790	25RB#0	18.75	PASS
Band17	10MHz	16QAM	23790	25RB#0	17.84	PASS
Band17	10MHz	QPSK	23790	25RB#12	18.74	PASS
Band17	10MHz	16QAM	23790	25RB#12	17.86	PASS
Band17	10MHz	QPSK	23790	25RB#25	18.80	PASS
Band17	10MHz	16QAM	23790	25RB#25	17.85	PASS
Band17	10MHz	QPSK	23790	50RB#0	18.78	PASS
Band17	10MHz	16QAM	23790	50RB#0	17.84	PASS
Band17	10MHz	QPSK	23800	1RB#0	19.82	PASS
Band17	10MHz	16QAM	23800	1RB#0	18.60	PASS
Band17	10MHz	QPSK	23800	1RB#24	19.92	PASS
Band17	10MHz	16QAM	23800	1RB#24	18.78	PASS
Band17	10MHz	QPSK	23800	1RB#49	19.89	PASS
Band17	10MHz	16QAM	23800	1RB#49	18.66	PASS
Band17	10MHz	QPSK	23800	25RB#0	18.71	PASS
Band17	10MHz	16QAM	23800	25RB#0	17.82	PASS



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Band17	10MHz	QPSK	23800	25RB#12	18.72	PASS
Band17	10MHz	16QAM	23800	25RB#12	17.78	PASS
Band17	10MHz	QPSK	23800	25RB#25	18.78	PASS
Band17	10MHz	16QAM	23800	25RB#25	17.81	PASS
Band17	10MHz	QPSK	23800	50RB#0	18.73	PASS
Band17	10MHz	16QAM	23800	50RB#0	17.78	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.63	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.98	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.83	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.43	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.38	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.88	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.51	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.15	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.50	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.22	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.59	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.22	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.50	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	6.37	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.62	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.27	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.45	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	6.07	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.51	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.26	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.40	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.57	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.45	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.21	13	PASS



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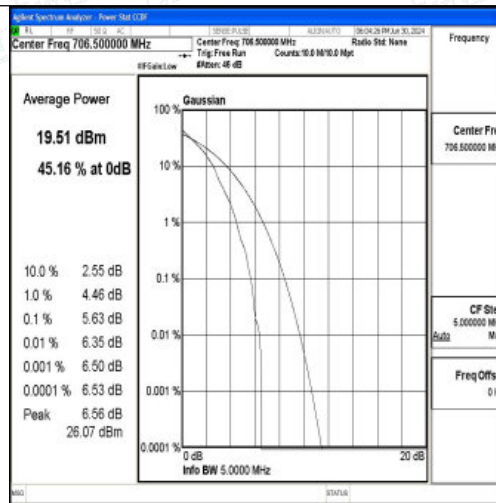
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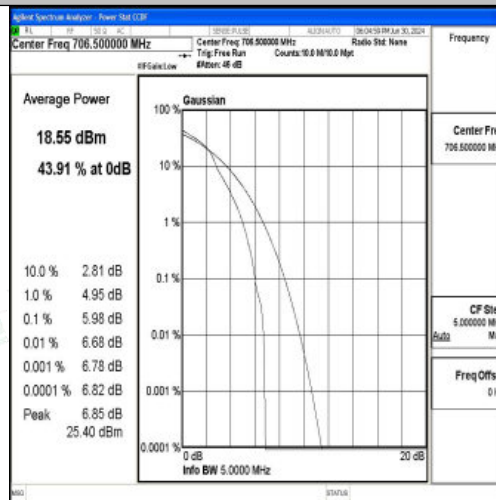
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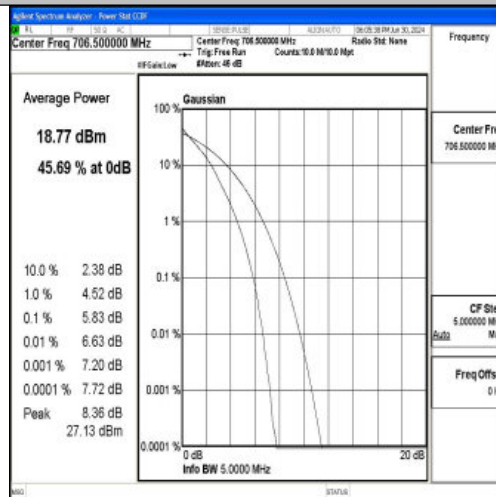
Test Graphs



Band17-5MHz-QPSK-23755-1RB#0-PASS



Band17-5MHz-16QAM-23755-1RB#0-PASS



Band17-5MHz-QPSK-23755-25RB#0-PASS

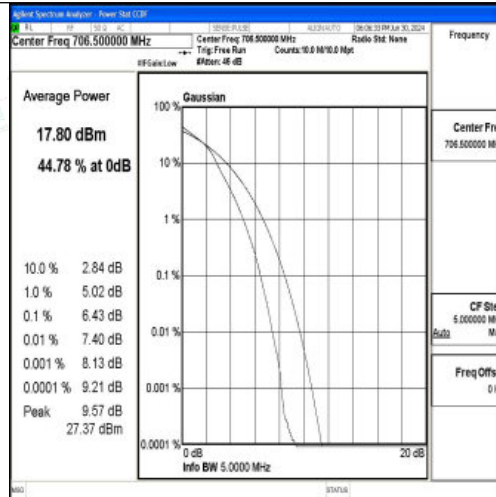


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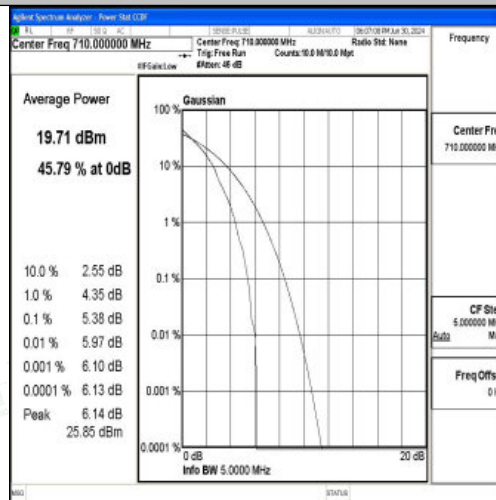
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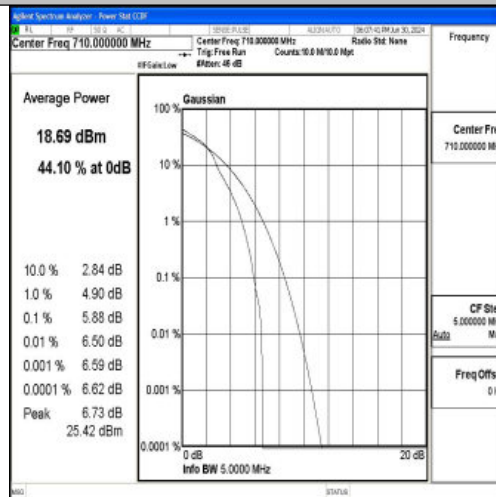
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Band17-5MHz-QPSK-23790-1RB#0-PASS



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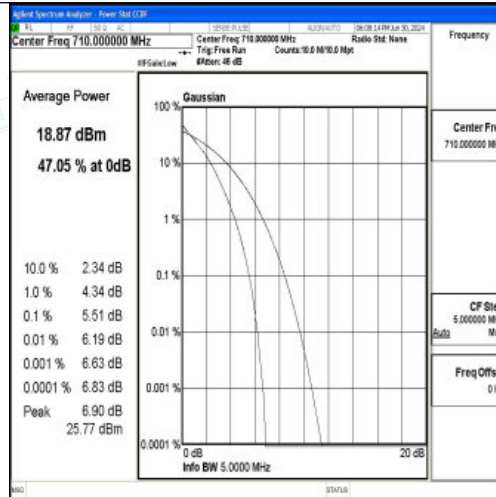


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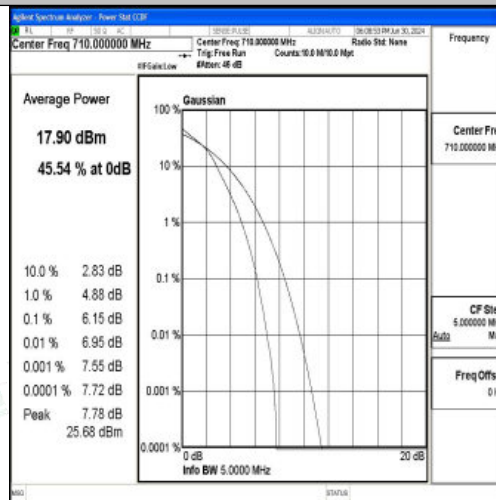
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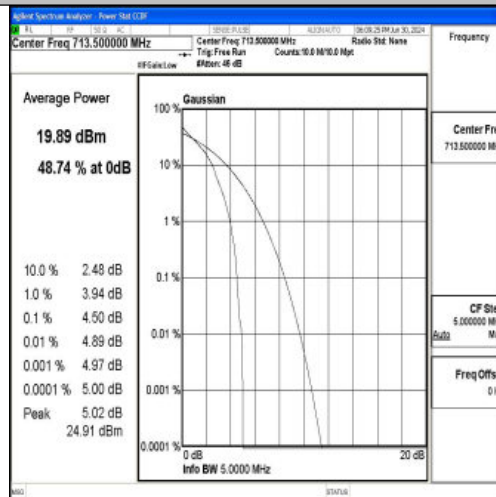
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Band17-5MHz-QPSK-23790-25RB#0-PASS



Band17-5MHz-16QAM-23790-25RB#0-PASS



Band17-5MHz-QPSK-23825-1RB#0-PASS

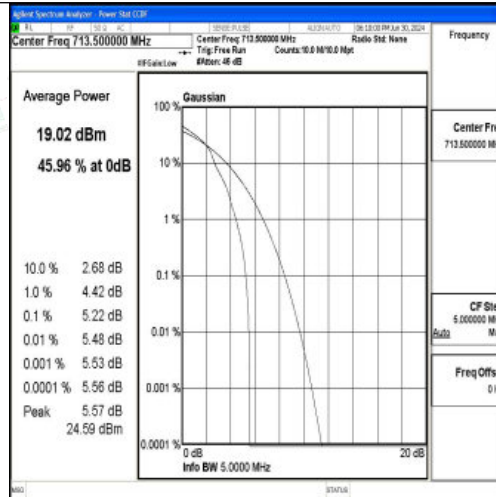


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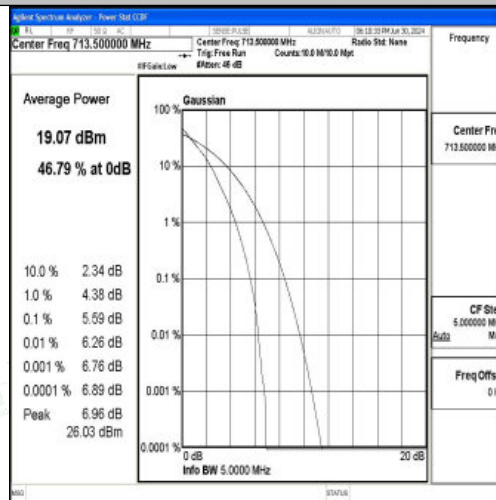
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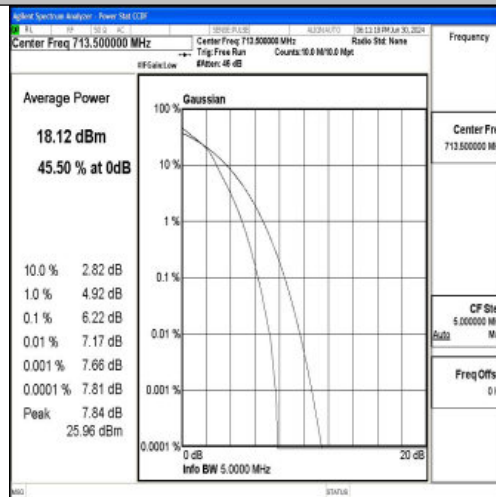
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Band17-5MHz-16QAM-23825-1RB#0-PASS



Band17-5MHz-QPSK-23825-25RB#0-PASS



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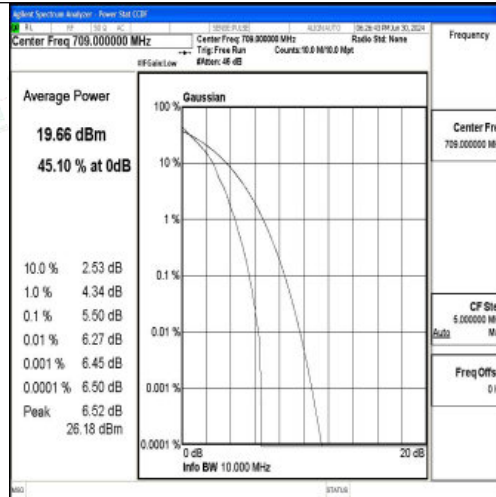


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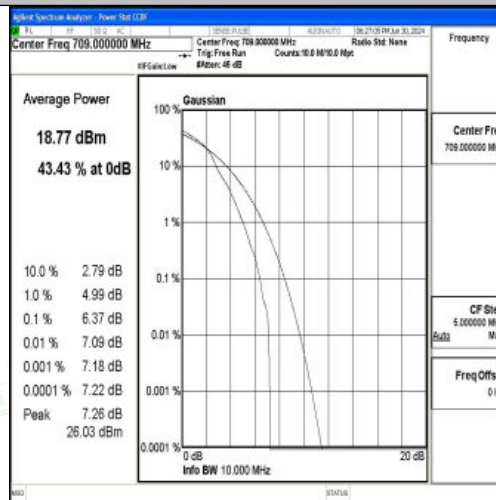
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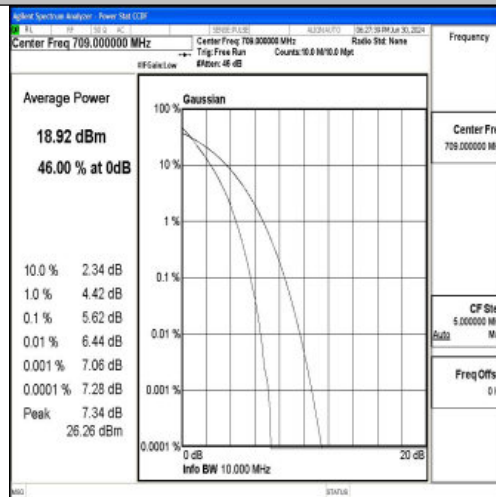
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Band17-10MHz-QPSK-23780-1RB#0-PASS



Band17-10MHz-16QAM-23780-1RB#0-PASS



Band17-10MHz-QPSK-23780-50RB#0-PASS

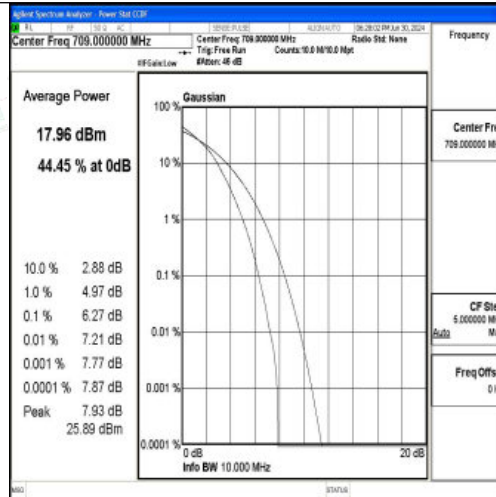


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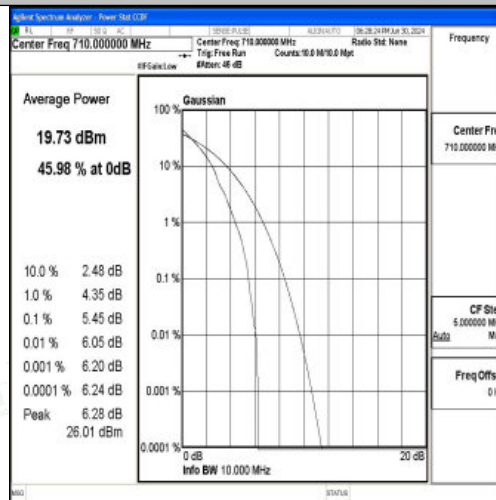
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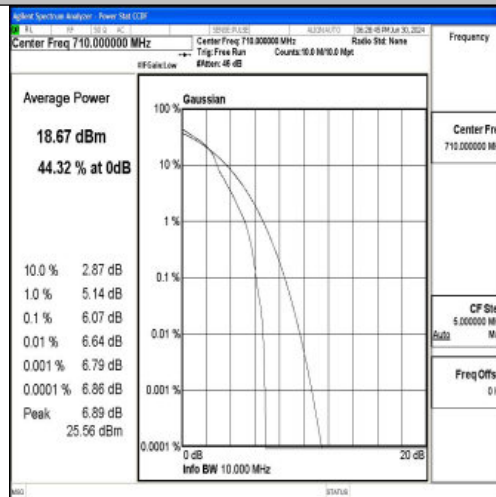
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Band17-10MHz-QPSK-23790-1RB#0-PASS



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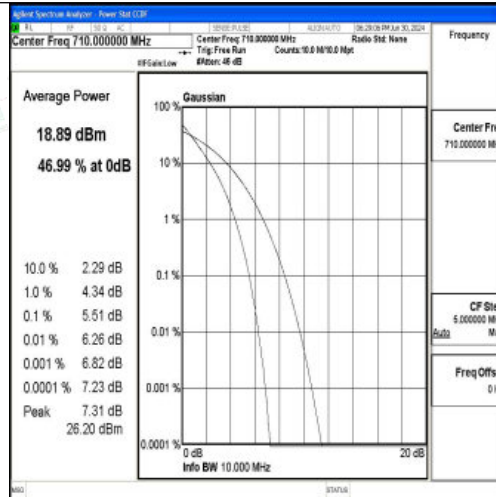


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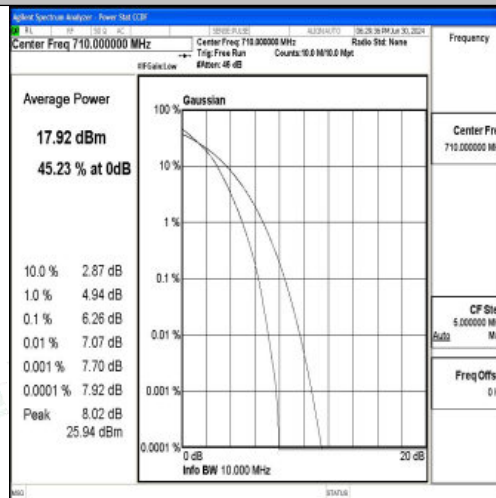
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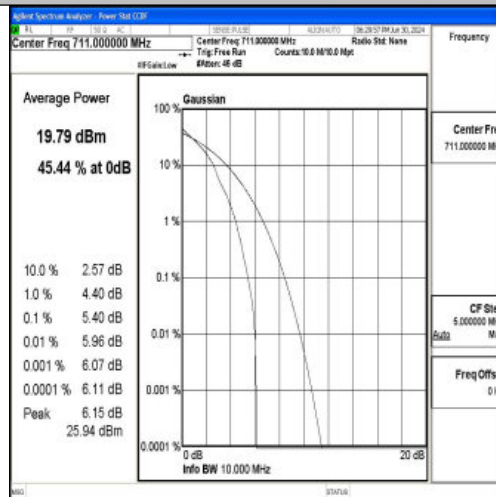
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Band17-10MHz-QPSK-23790-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-1RB#0-PASS

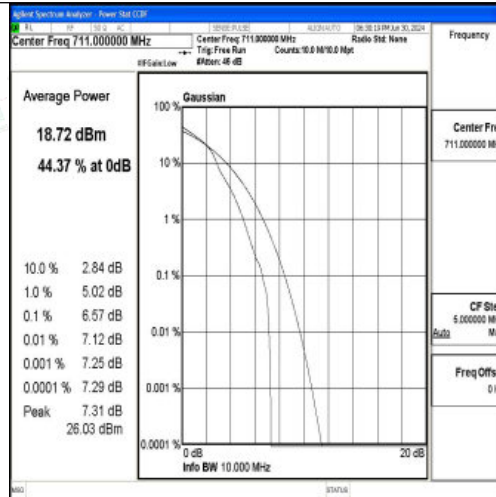


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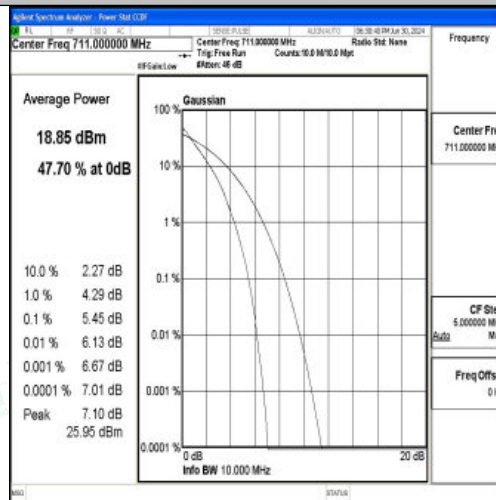
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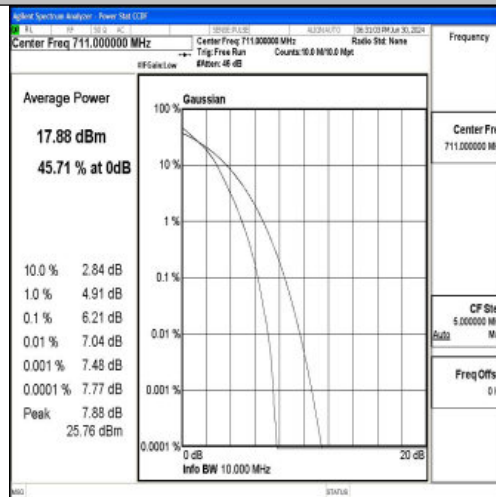
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Band17-10MHz-16QAM-23800-1RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



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K.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5537	5.927	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5409	5.854	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5084	5.175	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5069	5.127	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5134	5.130	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5191	5.199	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0041	10.13	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9816	10.02	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9896	10.03	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9827	10.02	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9610	9.957	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9395	10.02	PASS



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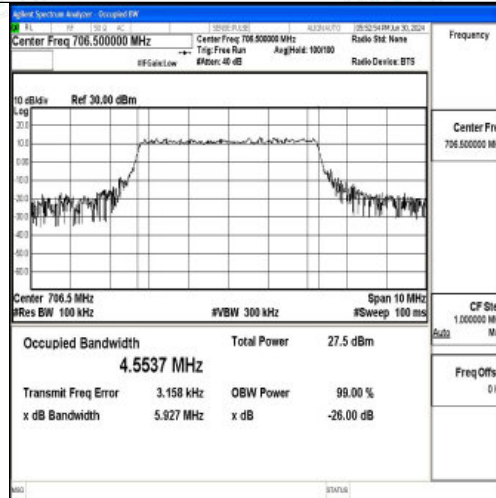
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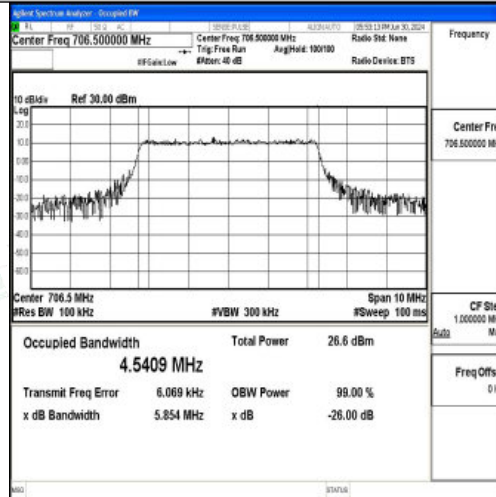
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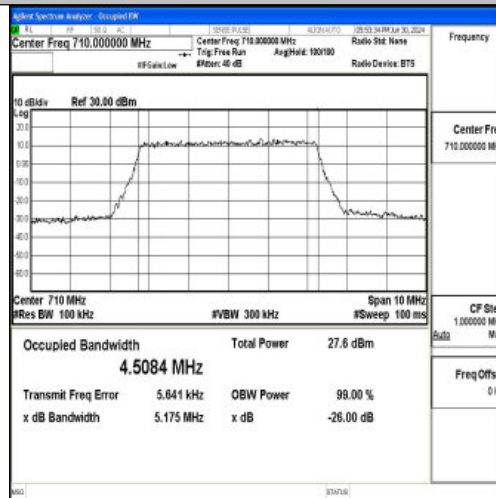
Test Graphs



Band17-5MHz-QPSK-23755-25RB#0-PASS



Band17-5MHz-16QAM-23755-25RB#0-PASS



Band17-5MHz-QPSK-23790-25RB#0-PASS

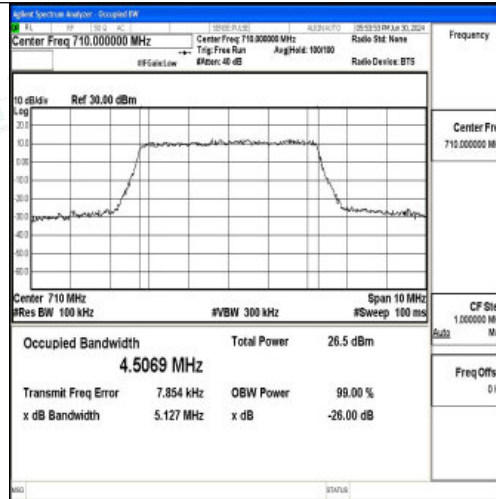


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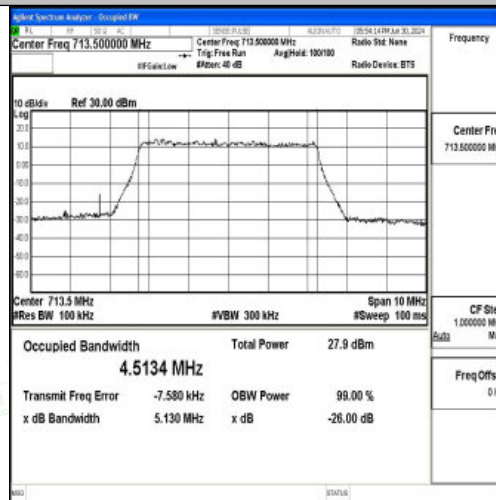
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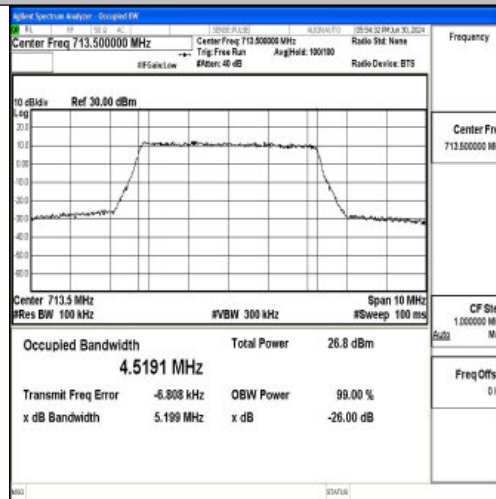
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Band17-5MHz-16QAM-23790-25RB#0-PASS



Band17-5MHz-QPSK-23825-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS

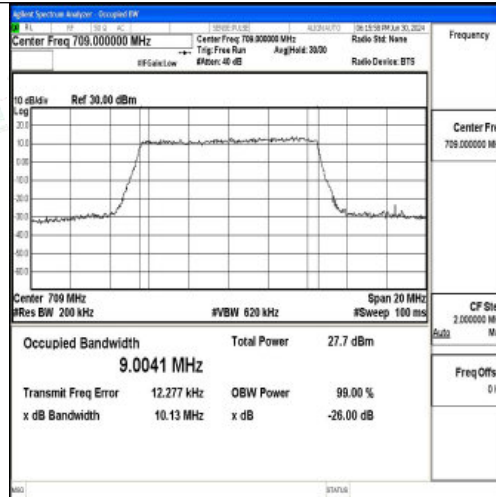


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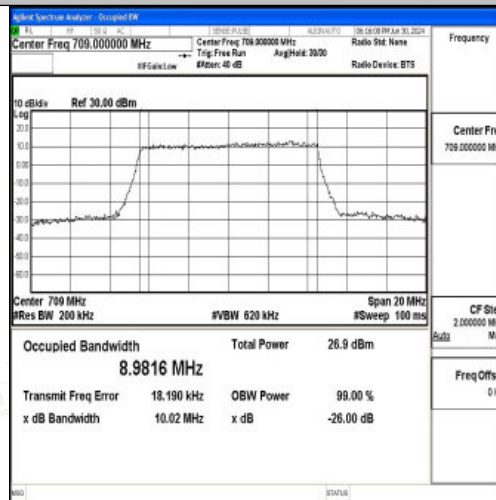
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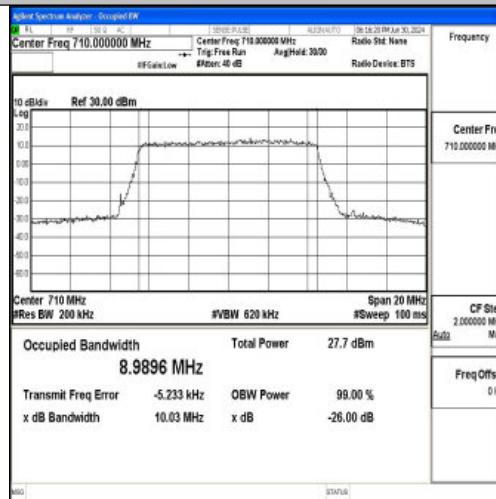
Scan code to check authenticity



Band17-10MHz-QPSK-23780-50RB#0-PASS



Band17-10MHz-16QAM-23780-50RB#0-PASS



Band17-10MHz-QPSK-23790-50RB#0-PASS

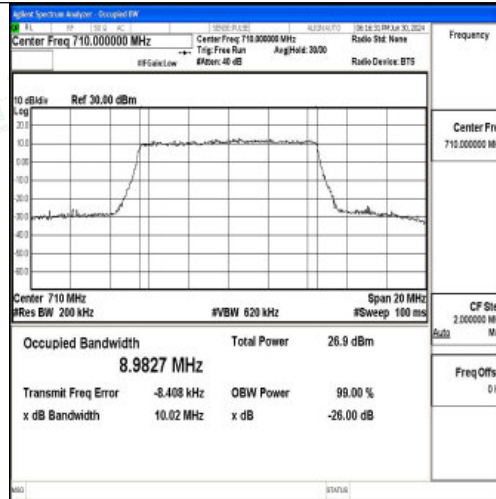


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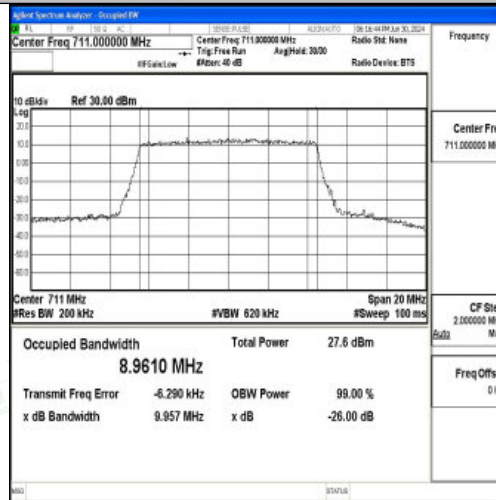
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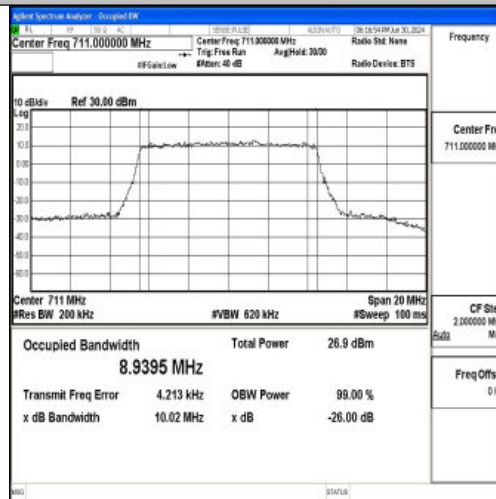
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Band17-10MHz-16QAM-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



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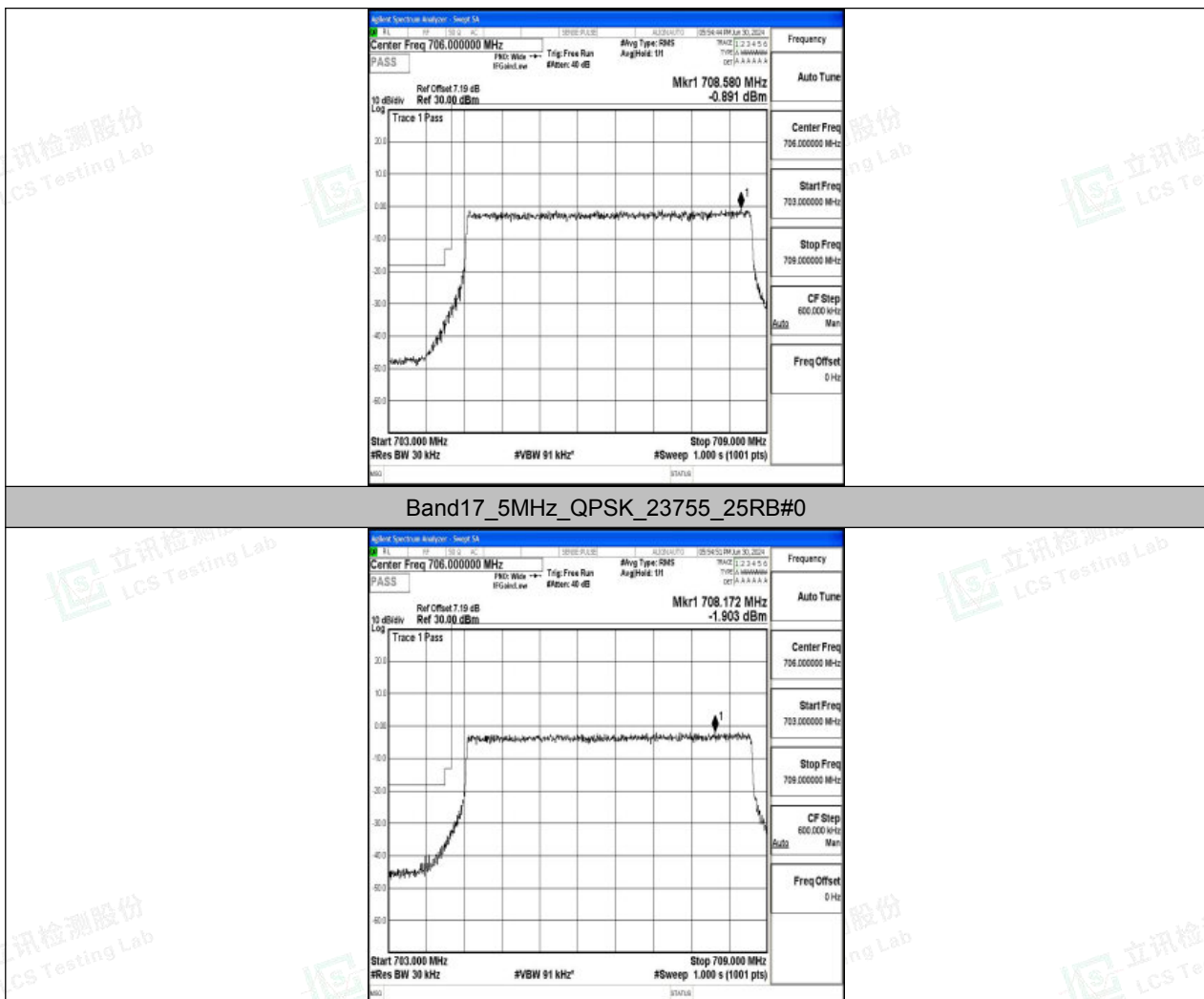


K.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.89	-35.12	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.89	-36.04	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.10	-36.41	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.12	-36.62	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.80	-40.22	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.89	-41.73	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.12	-40.87	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.11	-41.94	PASS

Test Graphs



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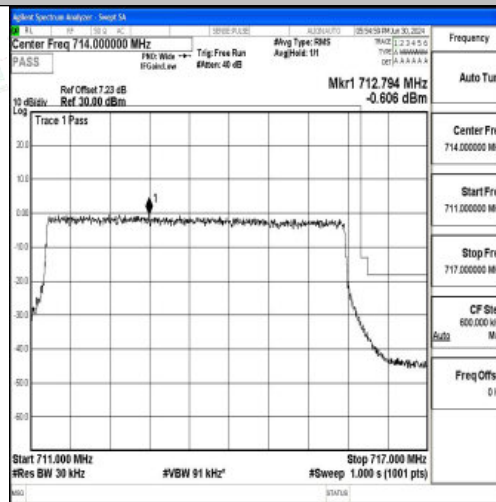
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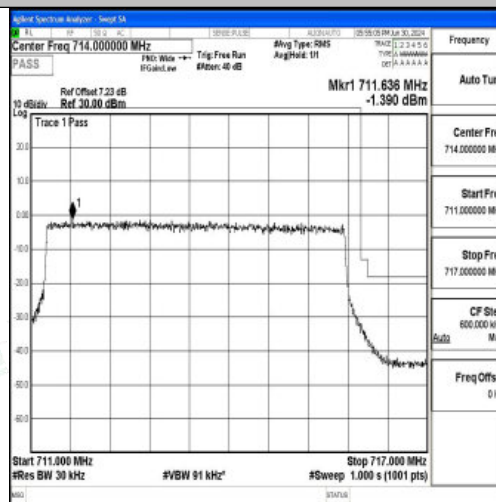
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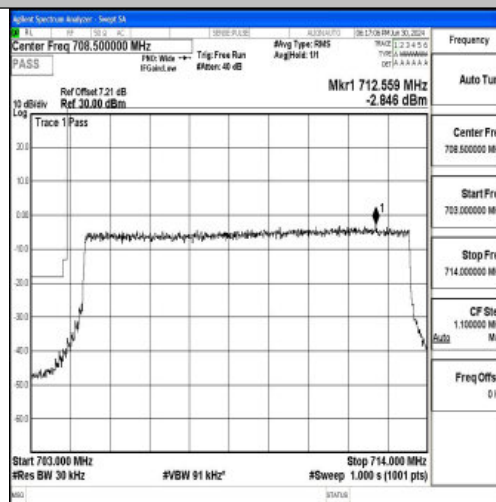
Band17_5MHz_16QAM_23755_25RB#0



Band17_5MHz_QPSK_23825_25RB#0



Band17_5MHz_16QAM_23825_25RB#0



Band17_10MHz_QPSK_23780_50RB#0

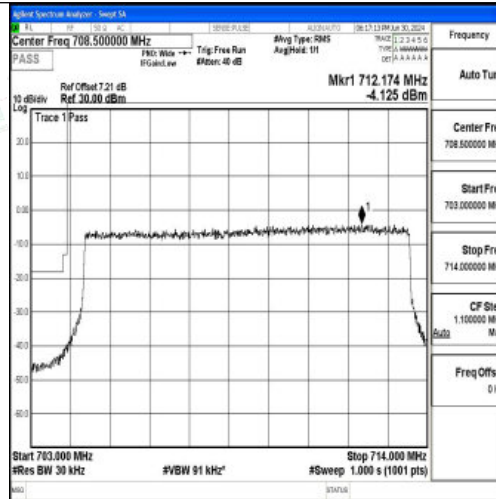


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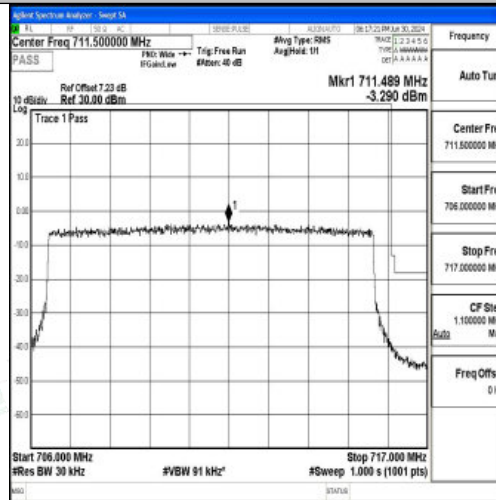
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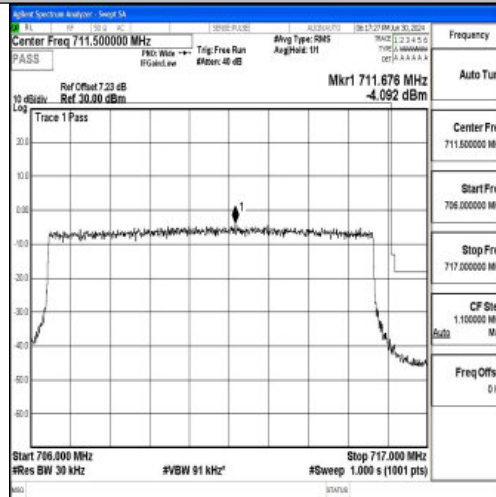
Scan code to check authenticity



Band17_10MHz_16QAM_23780_50RB#0



Band17_10MHz_QPSK_23800_50RB#0



Band17_10MHz_16QAM_23800_50RB#0



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K.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-54.60	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-52.87	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-61.69	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-47.66	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-44.08	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-58.88	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-52.09	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-62.00	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-47.91	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-44.03	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-58.53	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-52.34	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-61.97	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-47.75	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-44.01	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-59.12	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-50.55	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-61.87	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-47.65	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-44.04	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-57.74	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-51.46	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-62.15	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-47.53	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-43.99	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-57.08	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-54.46	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-62.15	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-47.86	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-43.89	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-57.19	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-52.52	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-62.07	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-47.57	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-43.11	PASS



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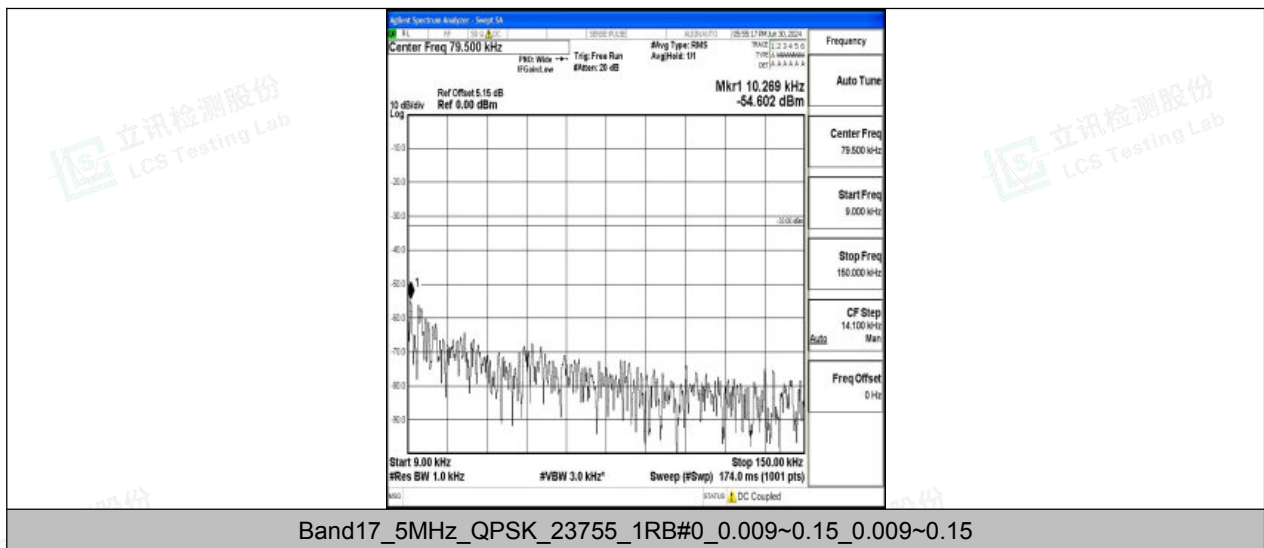
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Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-55.65	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-53.32	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-62.07	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-47.61	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-44.18	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-57.23	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-53.70	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-62.20	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-47.86	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-43.81	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-58.52	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-52.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-62.00	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-47.89	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-43.54	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-54.31	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-50.73	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-62.24	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-47.93	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-44.26	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-59.45	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-52.90	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-62.26	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-47.80	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-43.96	PASS

Test Graphs

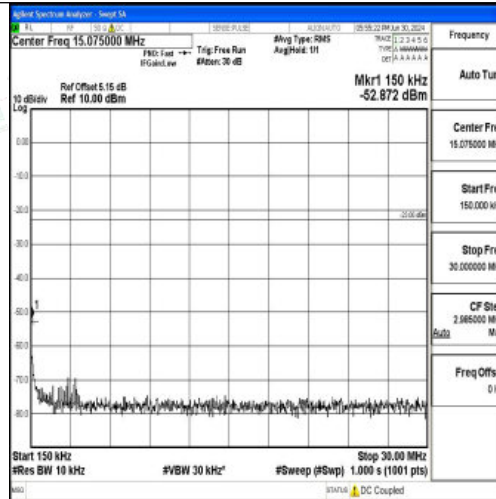


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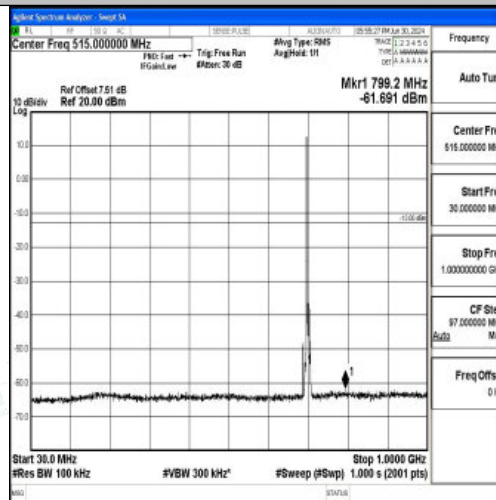
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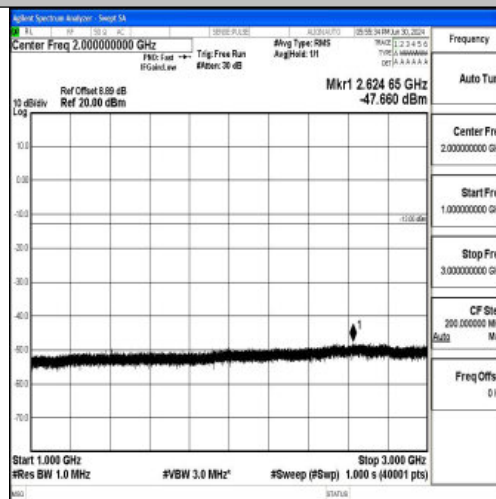
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Band17_5MHz_QPSK_23755_1RB#0_1000~3000_1000~3000

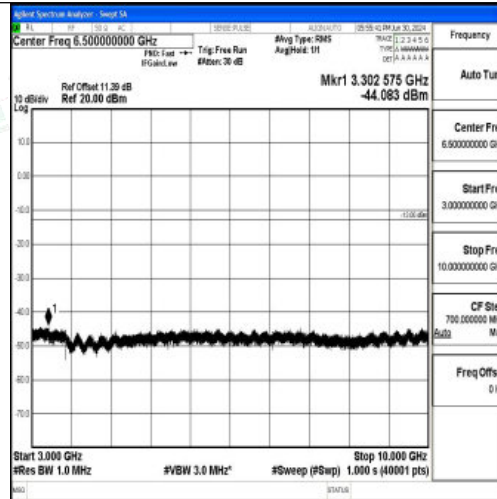


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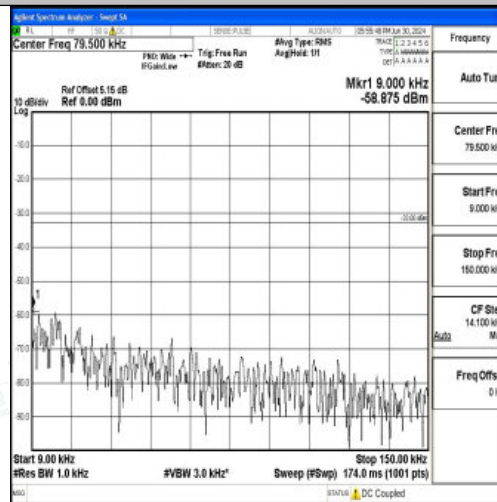
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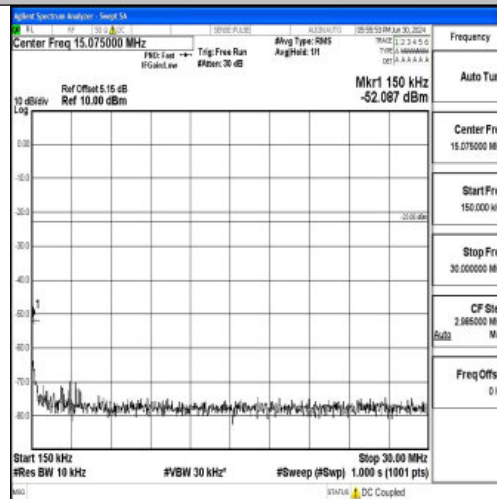
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Band17_5MHz_16QAM_23755_1RB#0_0.15~30_0.15~30

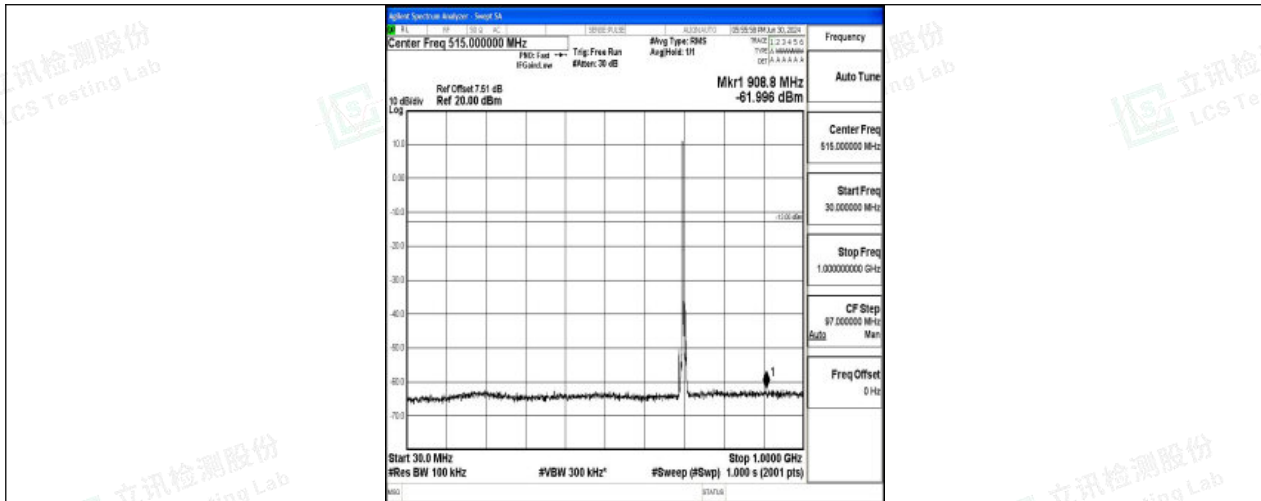


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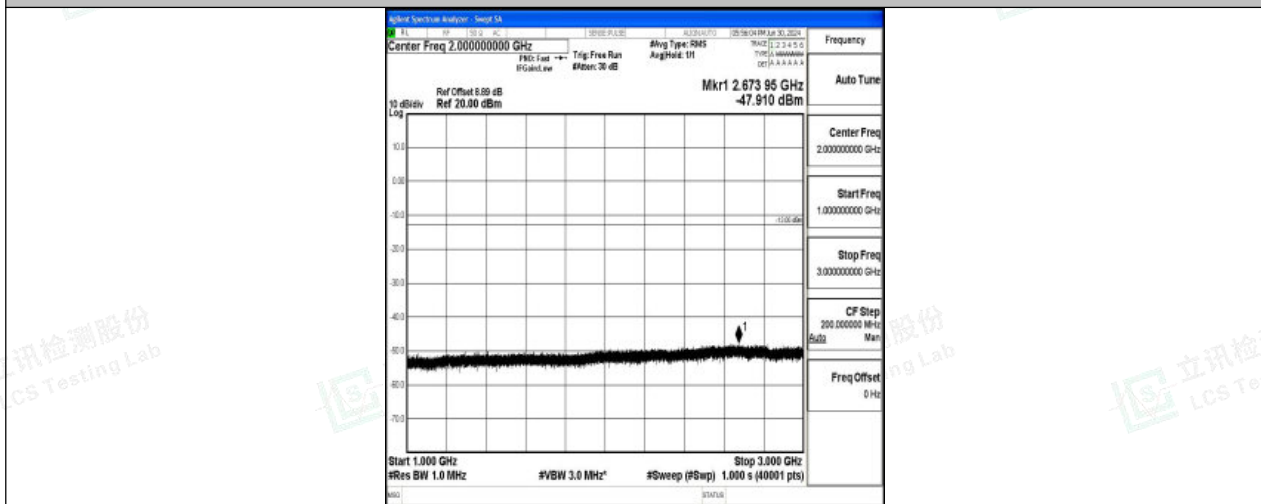
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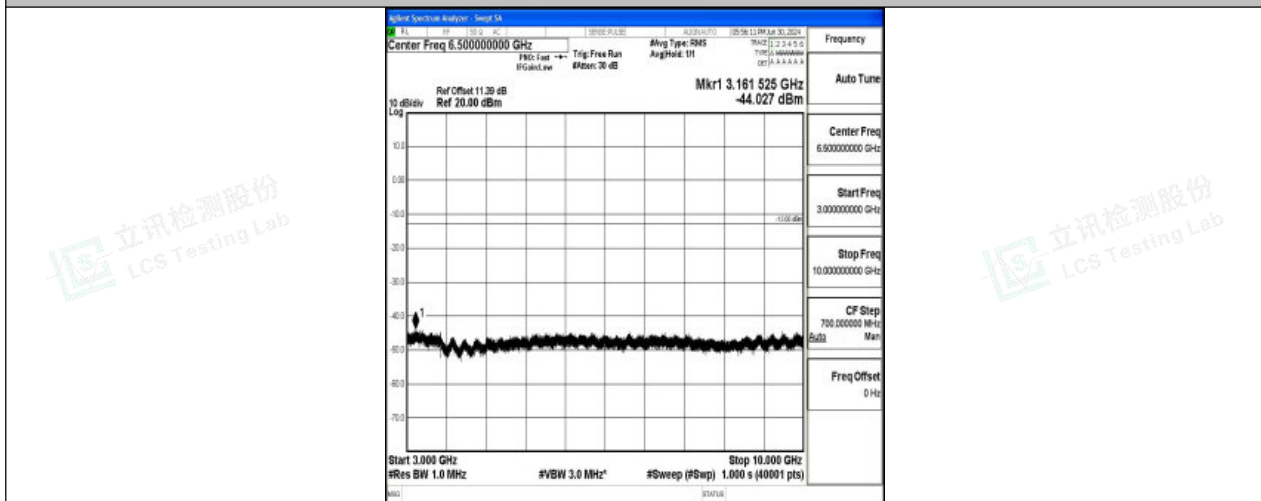
Scan code to check authenticity



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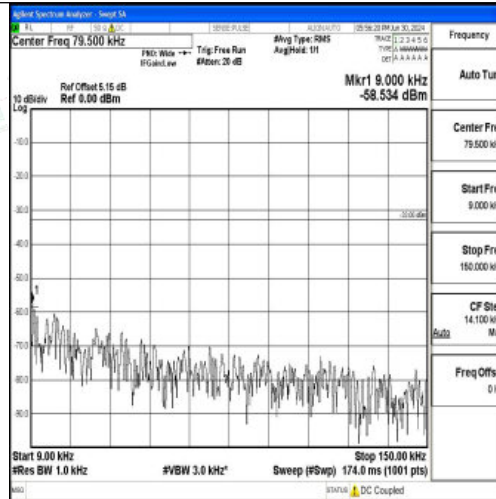


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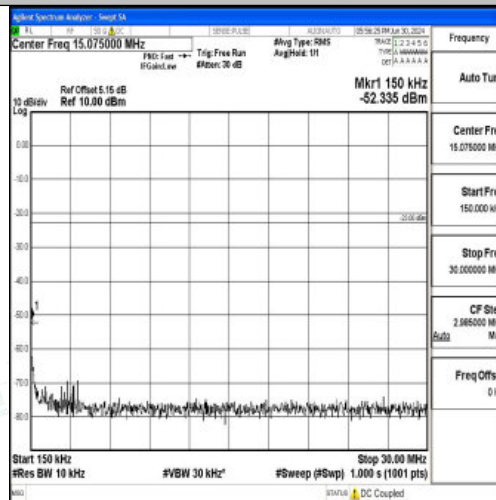
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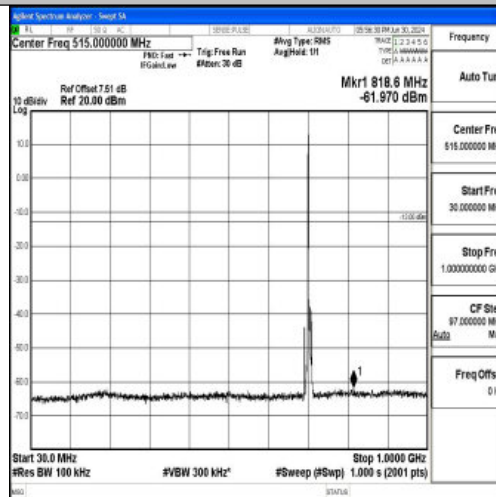
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Band17_5MHz_QPSK_23790_1RB#0_30~1000_30~1000

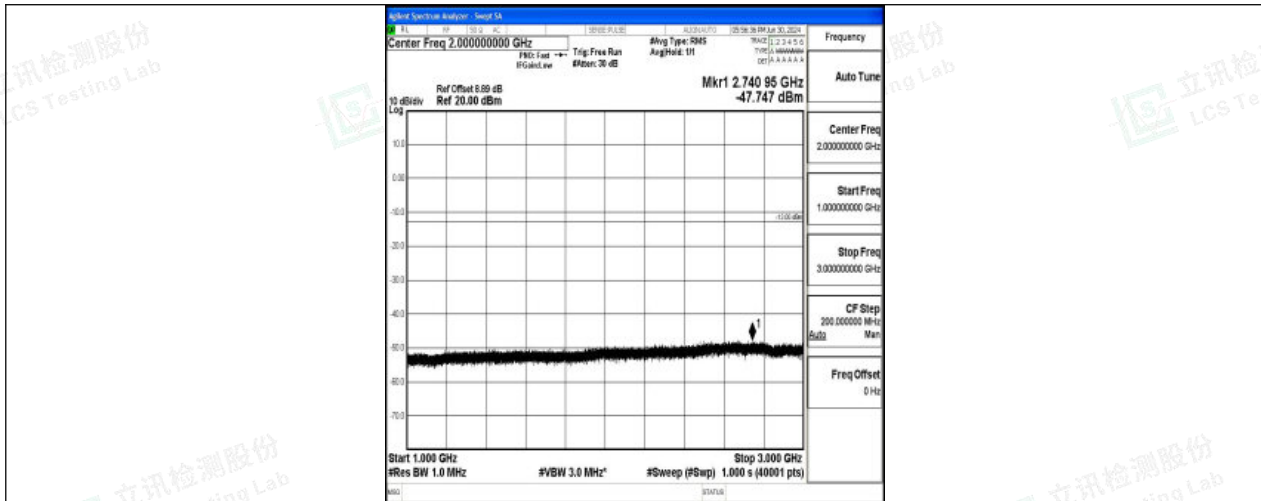


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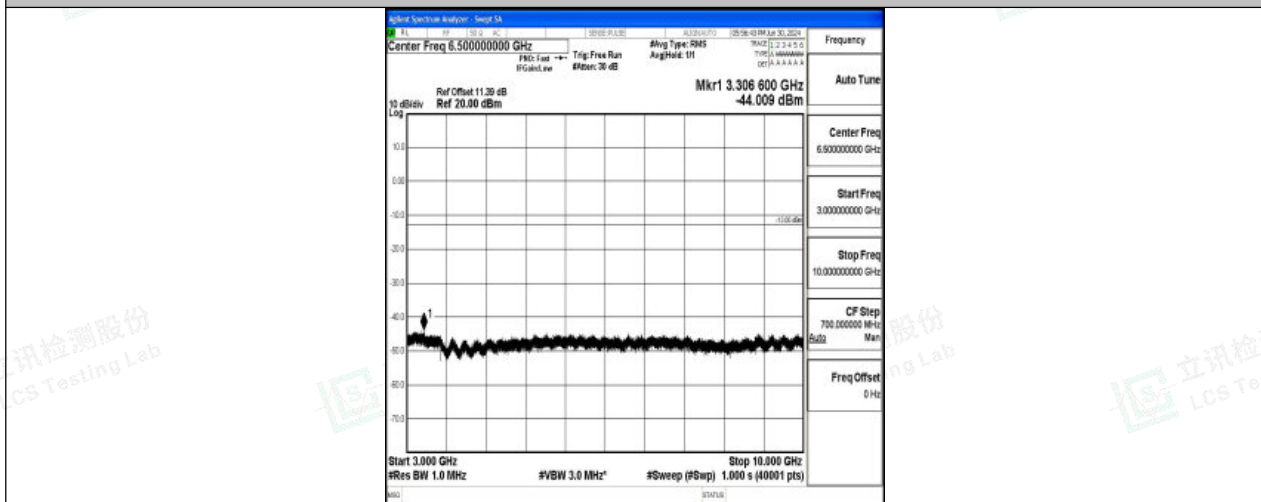
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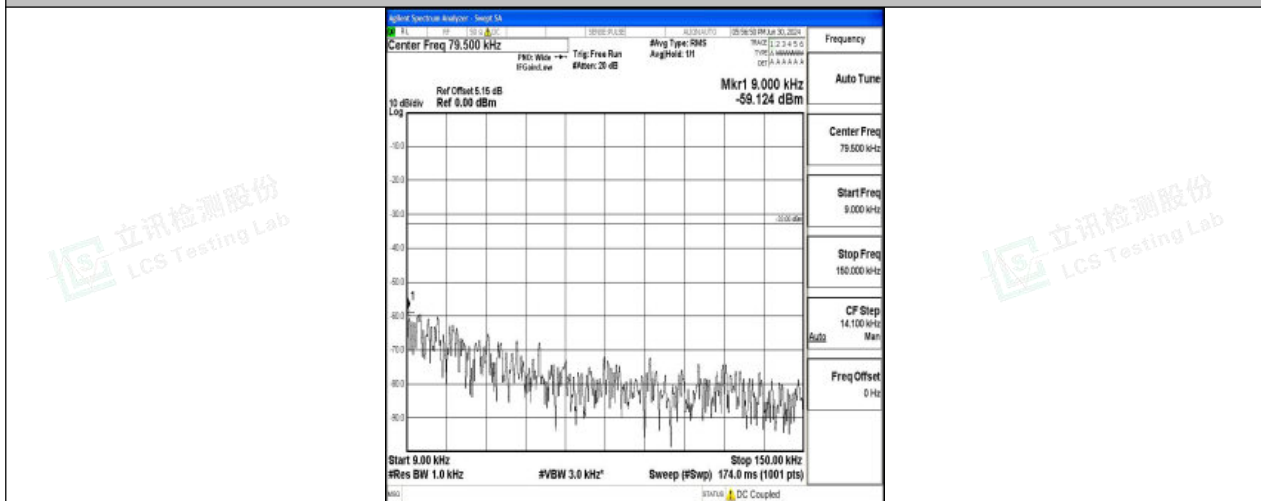
Scan code to check authenticity



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Band17_5MHz_QPSK_23790_1RB#0_3000~10000_3000~10000



Band17_5MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15

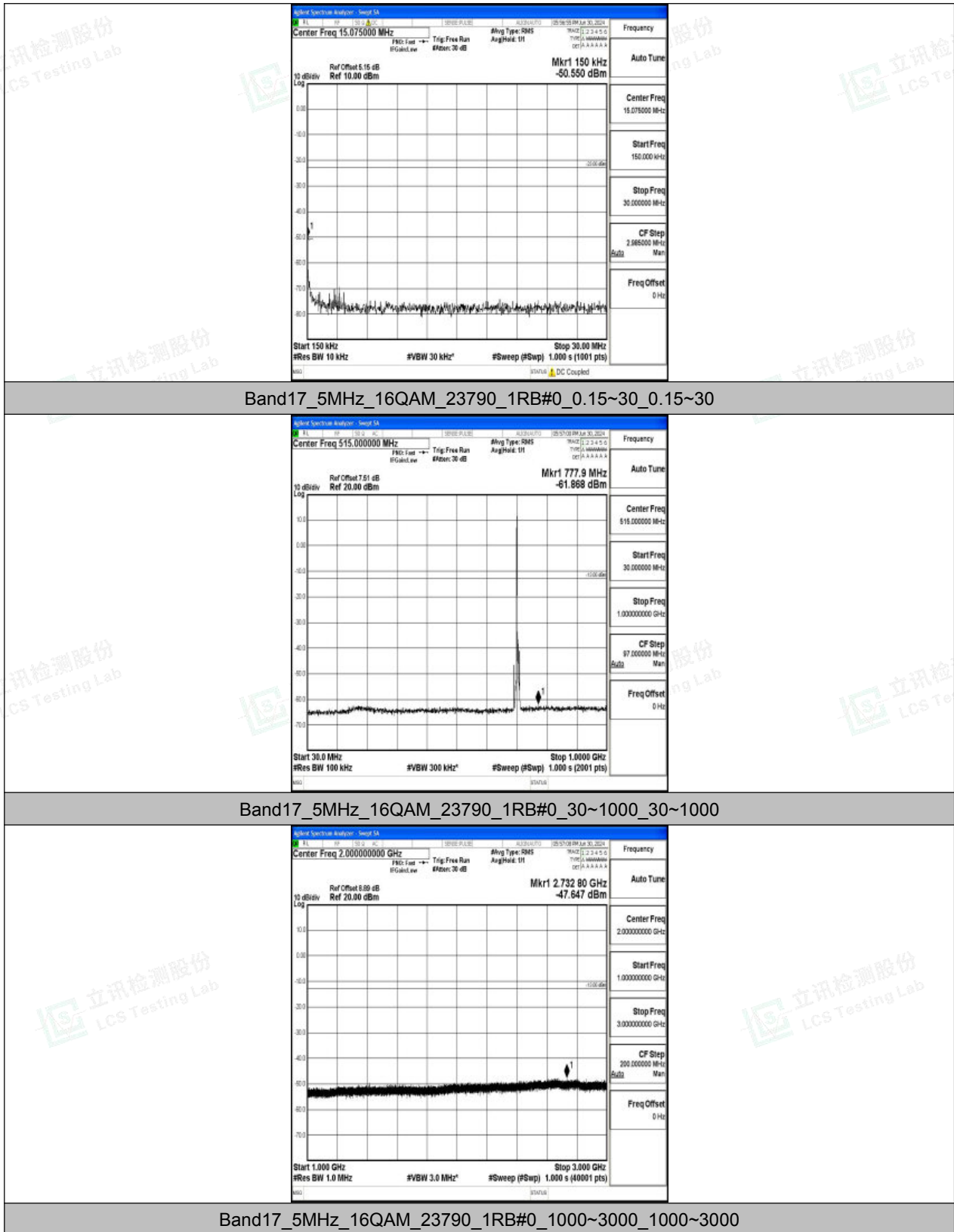


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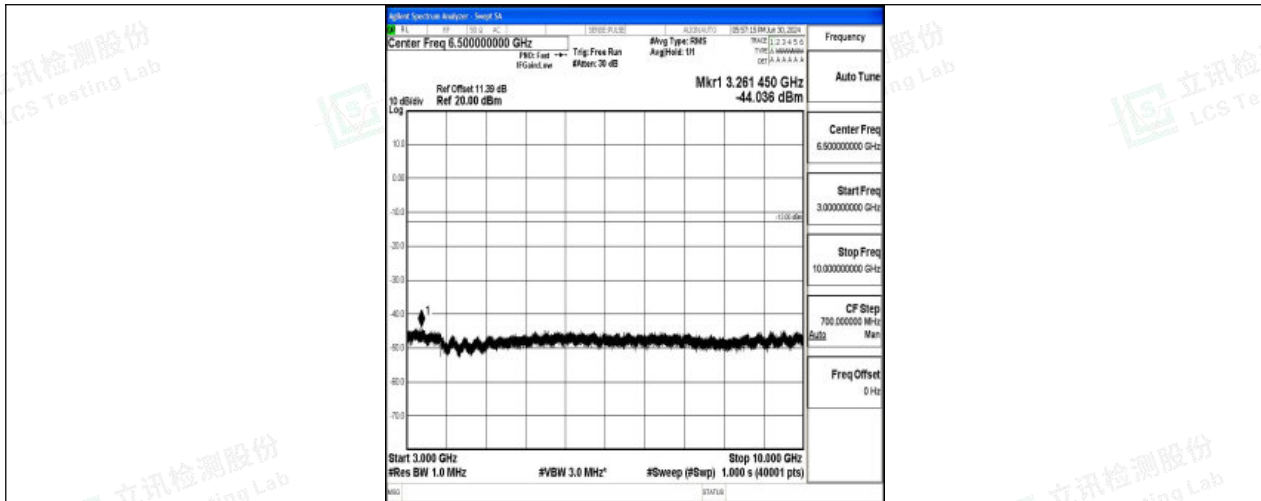


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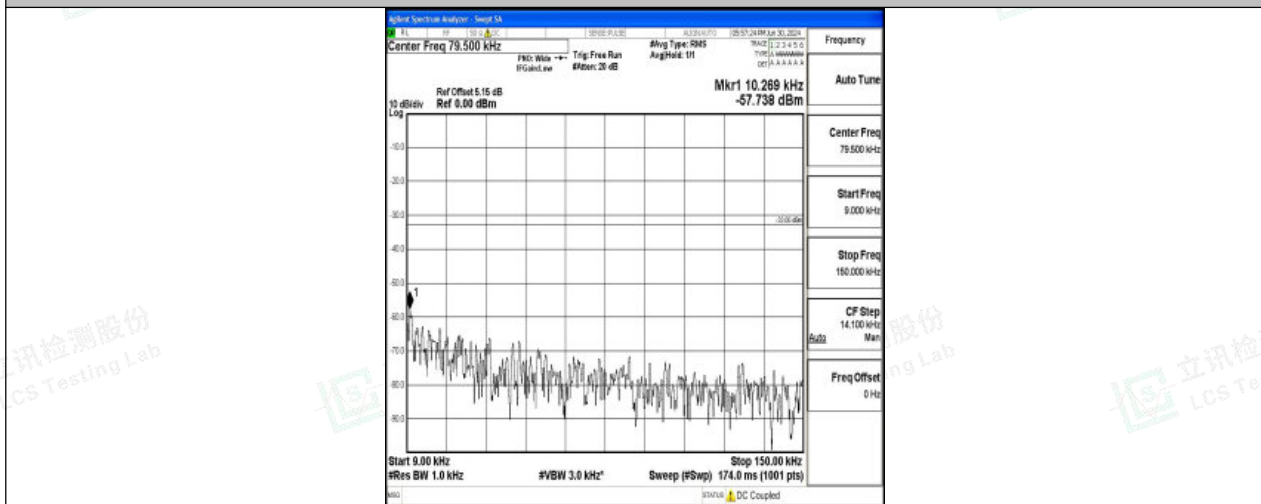
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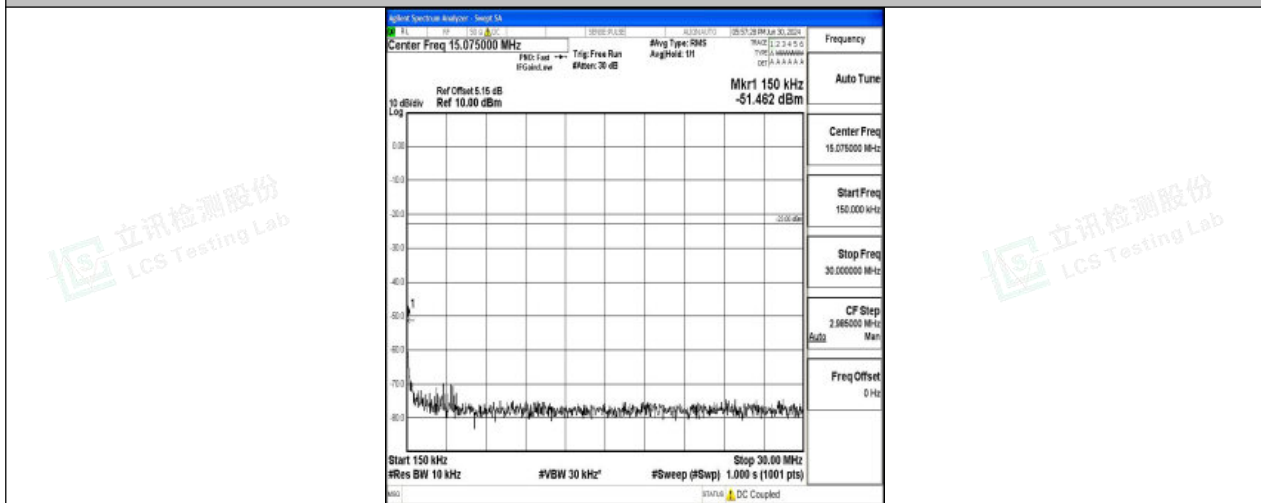
Scan code to check authenticity



Band17_5MHz_16QAM_23790_1RB#0_3000~10000_3000~10000



Band17_5MHz_QPSK_23825_1RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_QPSK_23825_1RB#0_0.15~30_0.15~30



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Scan code to check authenticity

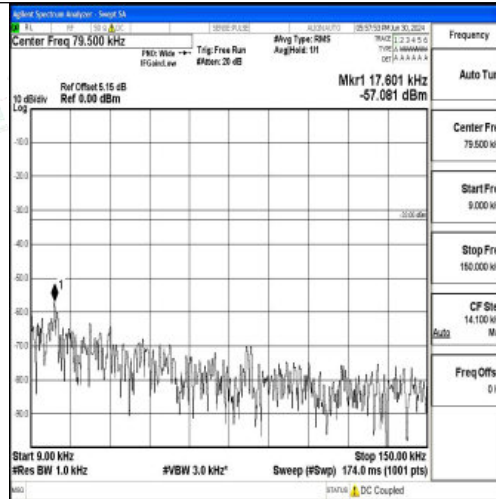


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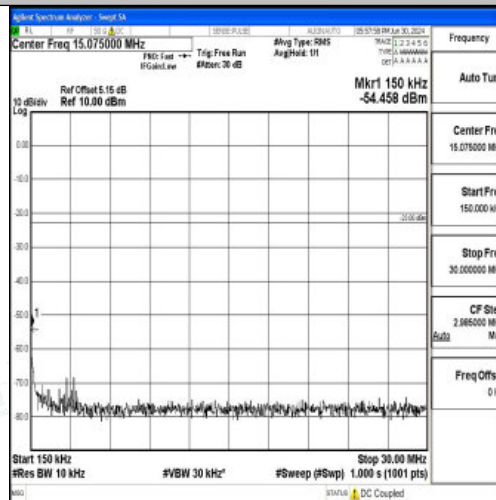
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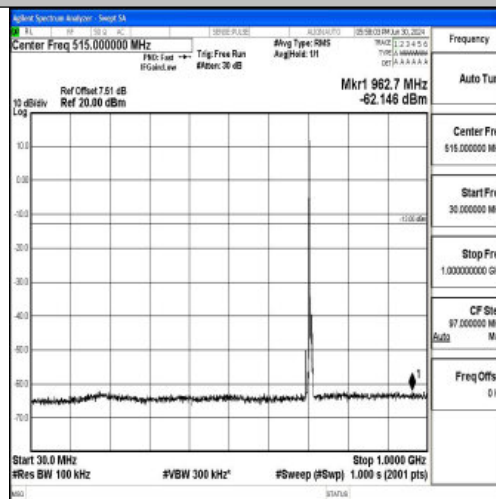
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Band17_5MHz_16QAM_23825_1RB#0_0.009~0.15_0.009~0.15



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Band17_5MHz_16QAM_23825_1RB#0_30~1000_30~1000

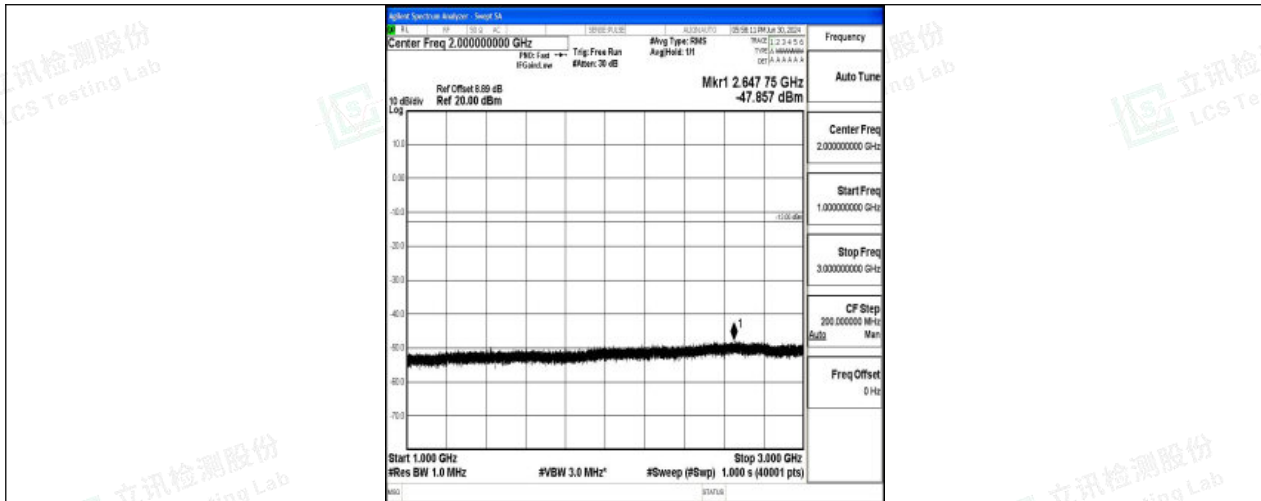


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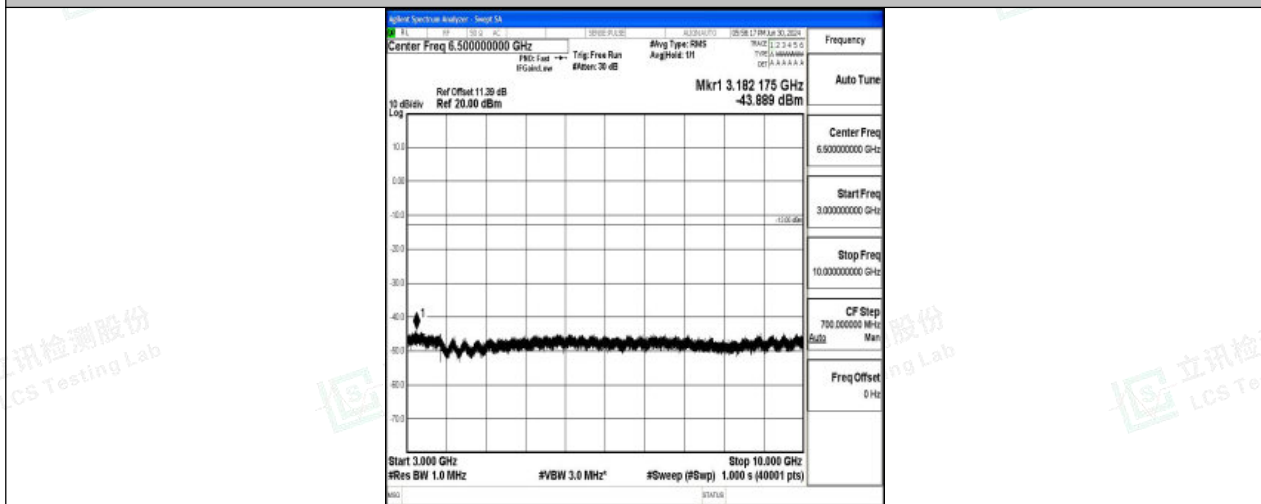
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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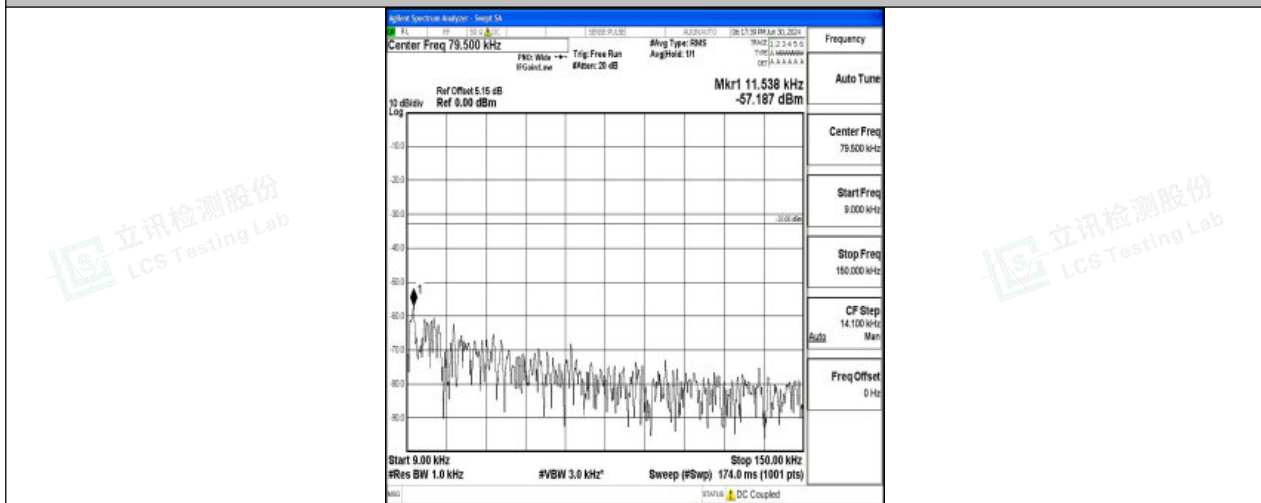
Scan code to check authenticity



Band17_5MHz_16QAM_23825_1RB#0_1000~3000_1000~3000



Band17_5MHz_16QAM_23825_1RB#0_3000~10000_3000~10000



Band17_10MHz_QPSK_23780_1RB#0_0.009~0.15_0.009~0.15

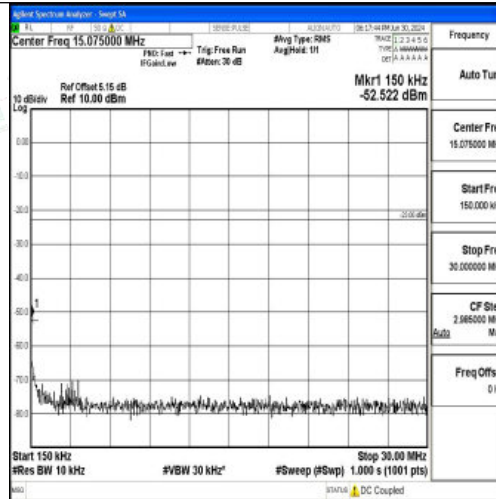


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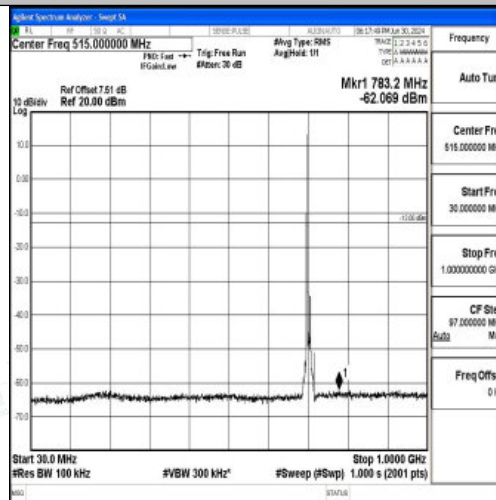
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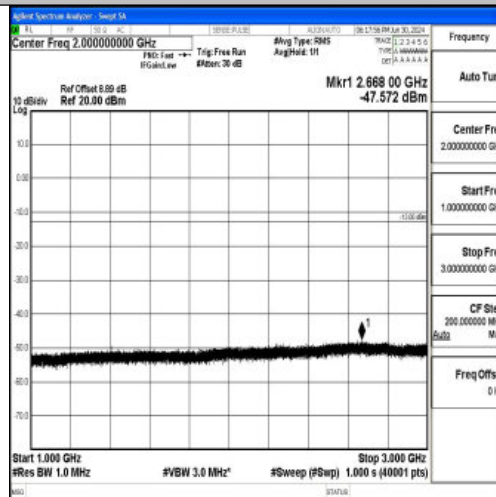
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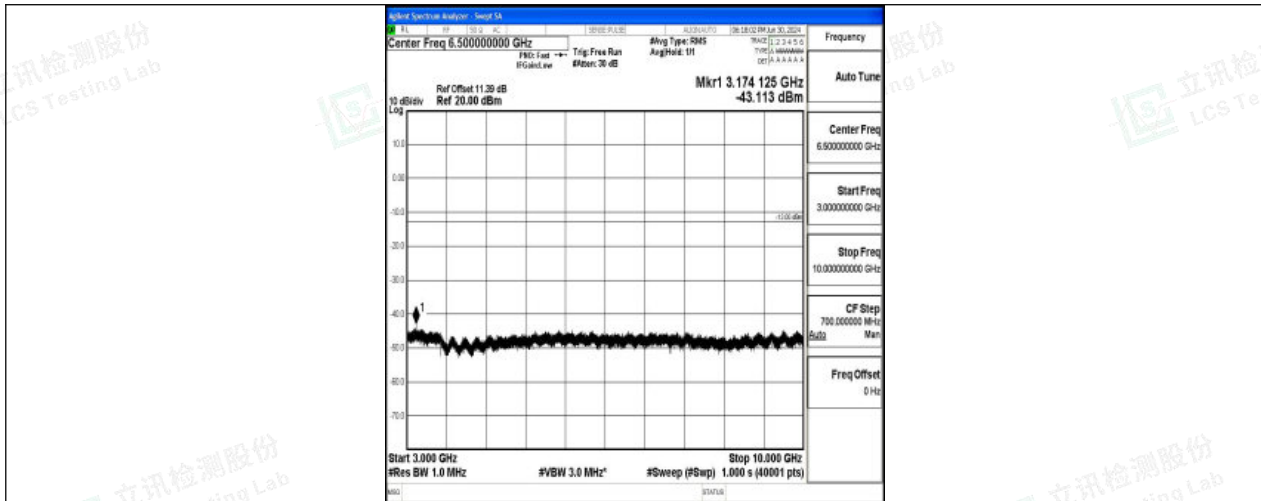


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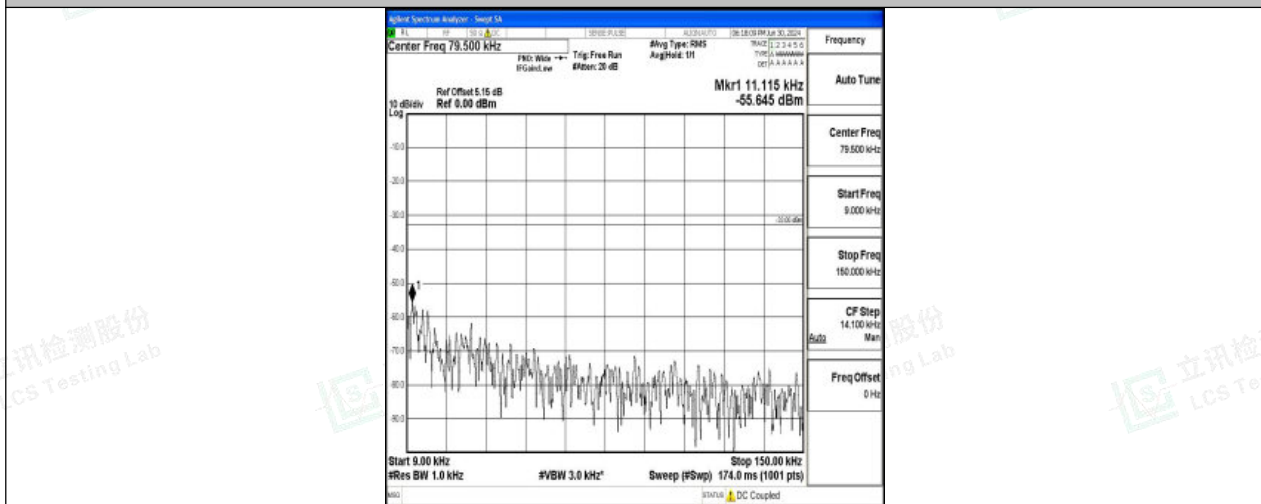
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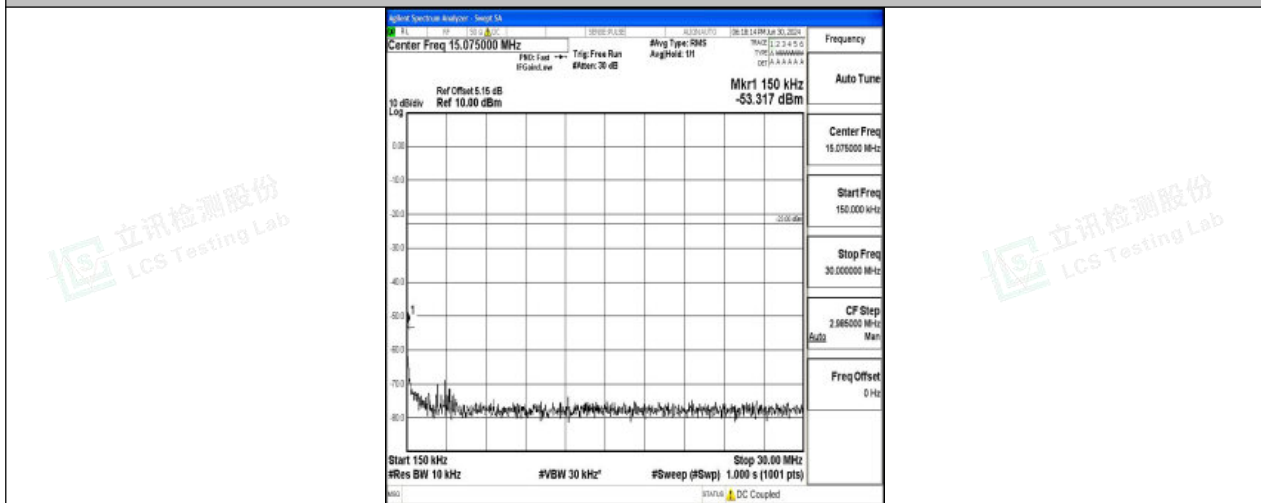
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Band17_10MHz_16QAM_23780_1RB#0_0.15~30_0.15~30



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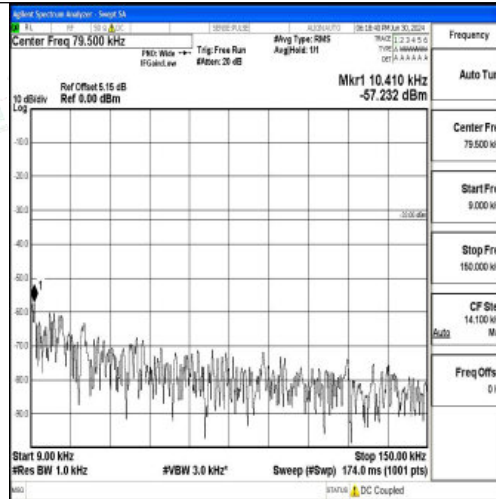


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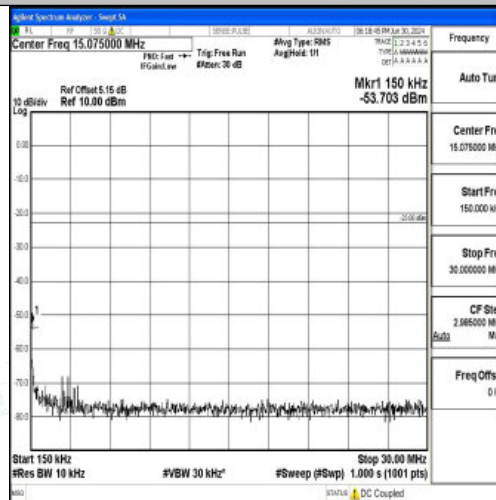
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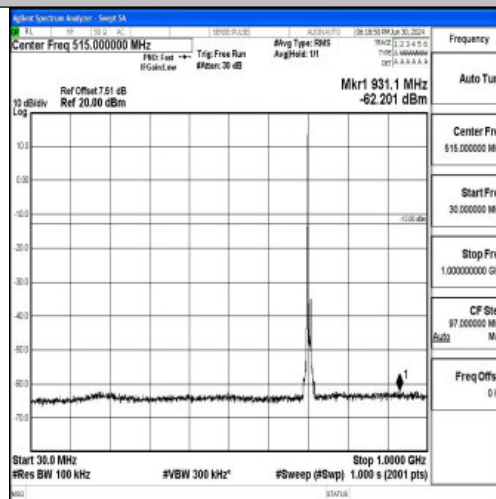
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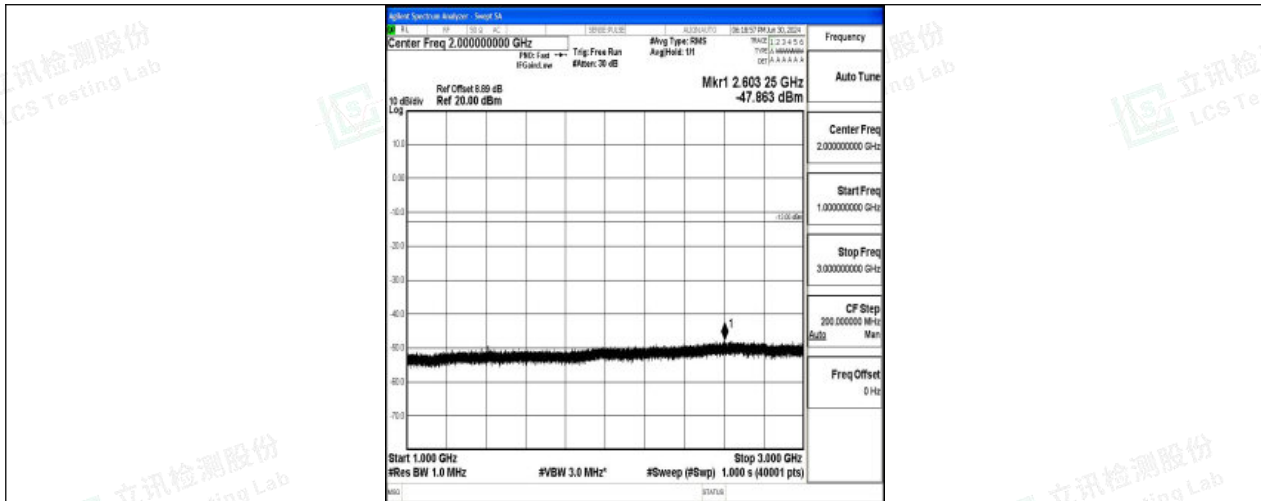


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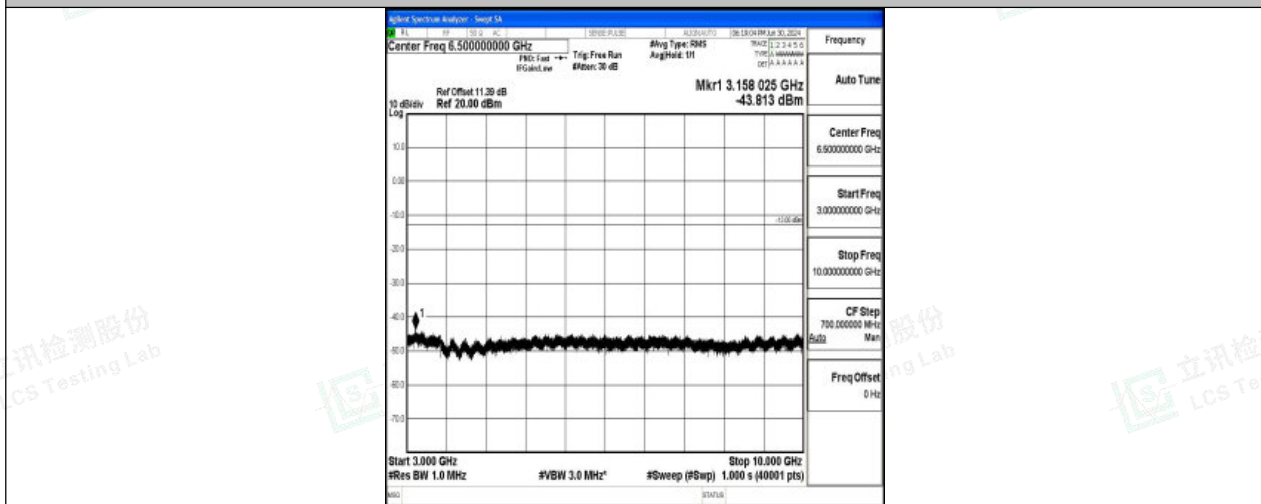
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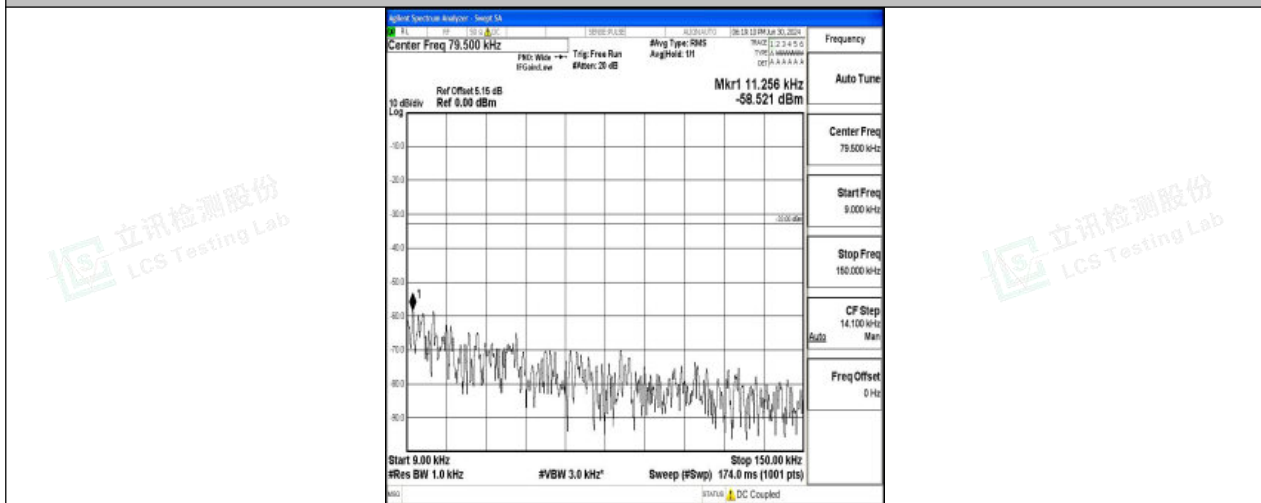
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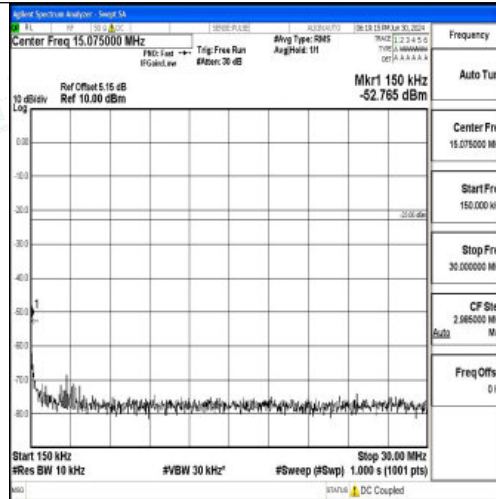


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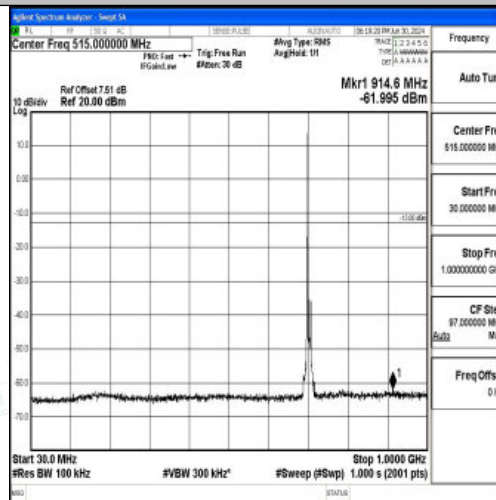
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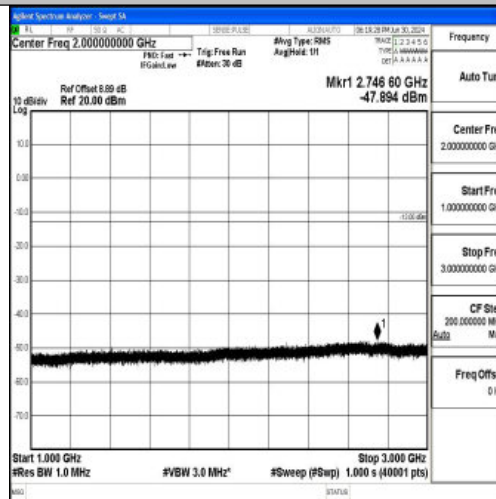
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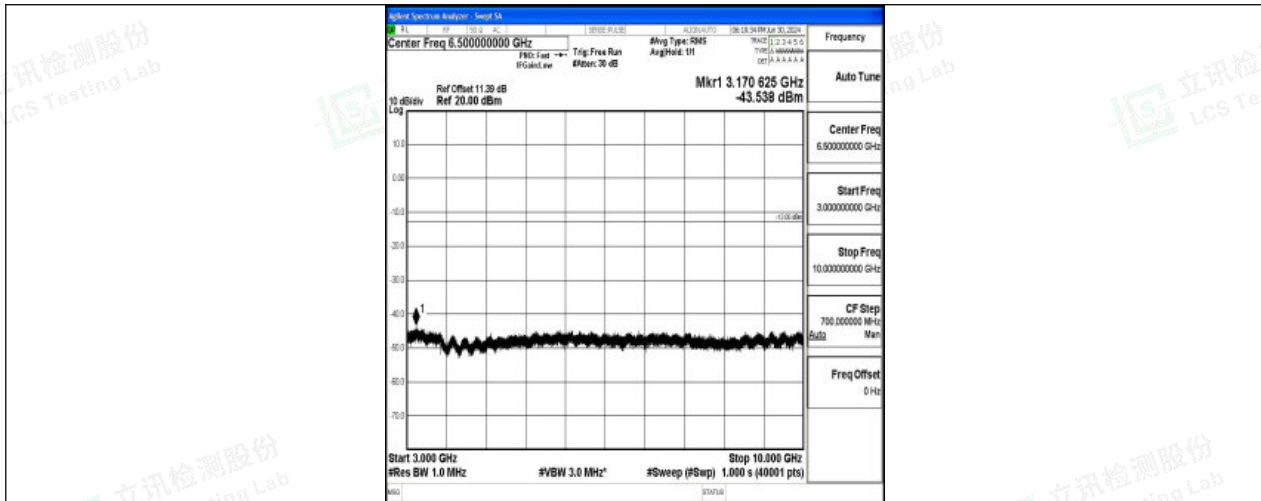


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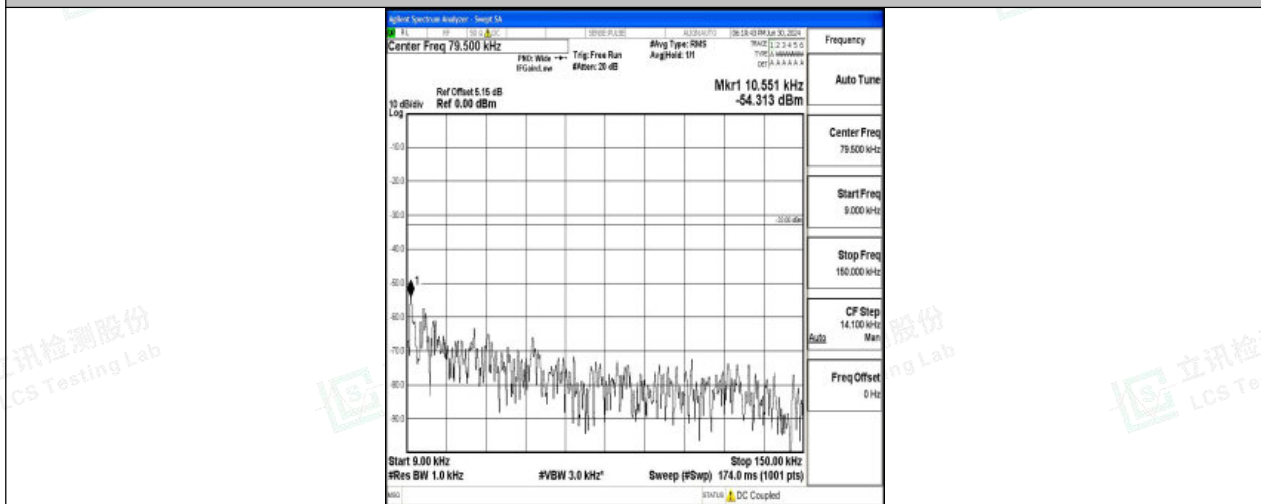
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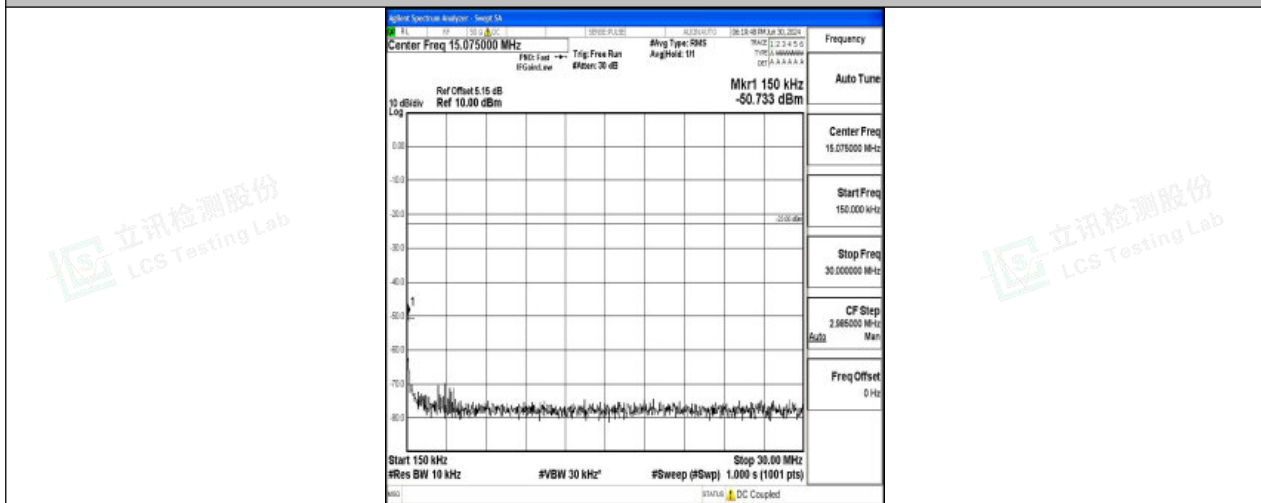
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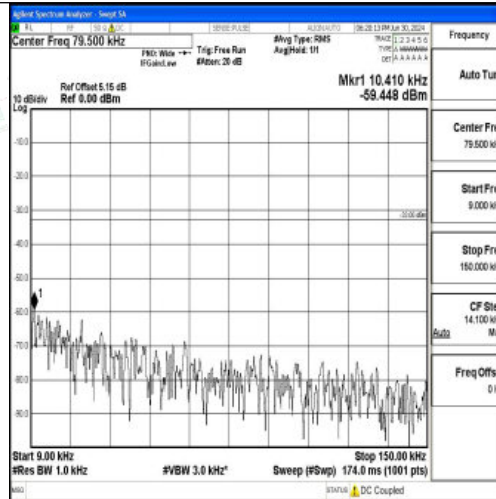


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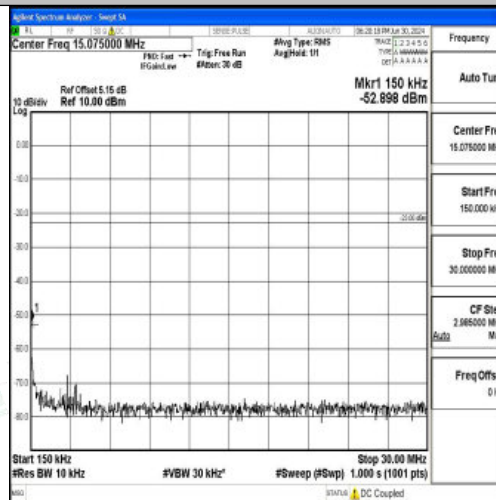
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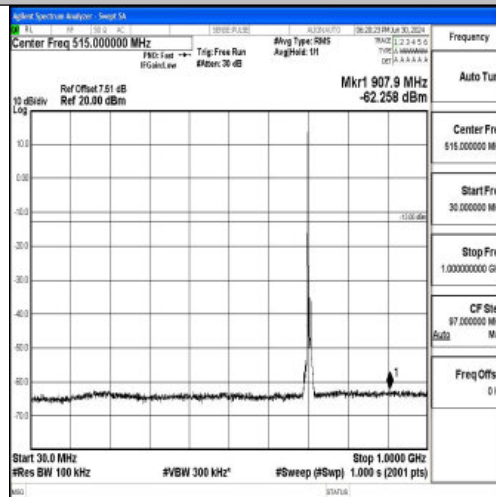
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Band17_10MHz_16QAM_23800_1RB#0_30~1000_30~1000



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