



Appendix G: Test Data for E-UTRA Band 17

Product Name: 4G module

Test Model: TM18NA

Environmental Conditions

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



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G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.65	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.45	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.62	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.41	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.64	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.51	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.69	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.88	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.69	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.87	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.72	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.90	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.56	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.66	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.64	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.32	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.39	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.27	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.44	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.35	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.55	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.73	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.73	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.73	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.75	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.62	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.93	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.58	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.24	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.55	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.31	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.52	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.26	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.74	PASS



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Band17	5MHz	16QAM	23825	12RB#0	21.86	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.74	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.86	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.78	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.90	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.70	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.00	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.28	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.41	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.21	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.71	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.26	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.65	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.54	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.57	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.54	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.57	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.50	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.66	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.49	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.65	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.66	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.57	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.64	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.56	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.44	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.49	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.55	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.87	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.55	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.87	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.49	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.82	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.55	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.13	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.30	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.23	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.21	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.27	PASS



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Band17	10MHz	16QAM	23800	1RB#49	22.68	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.56	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.76	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.57	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.75	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.44	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.72	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.52	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.71	PASS





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

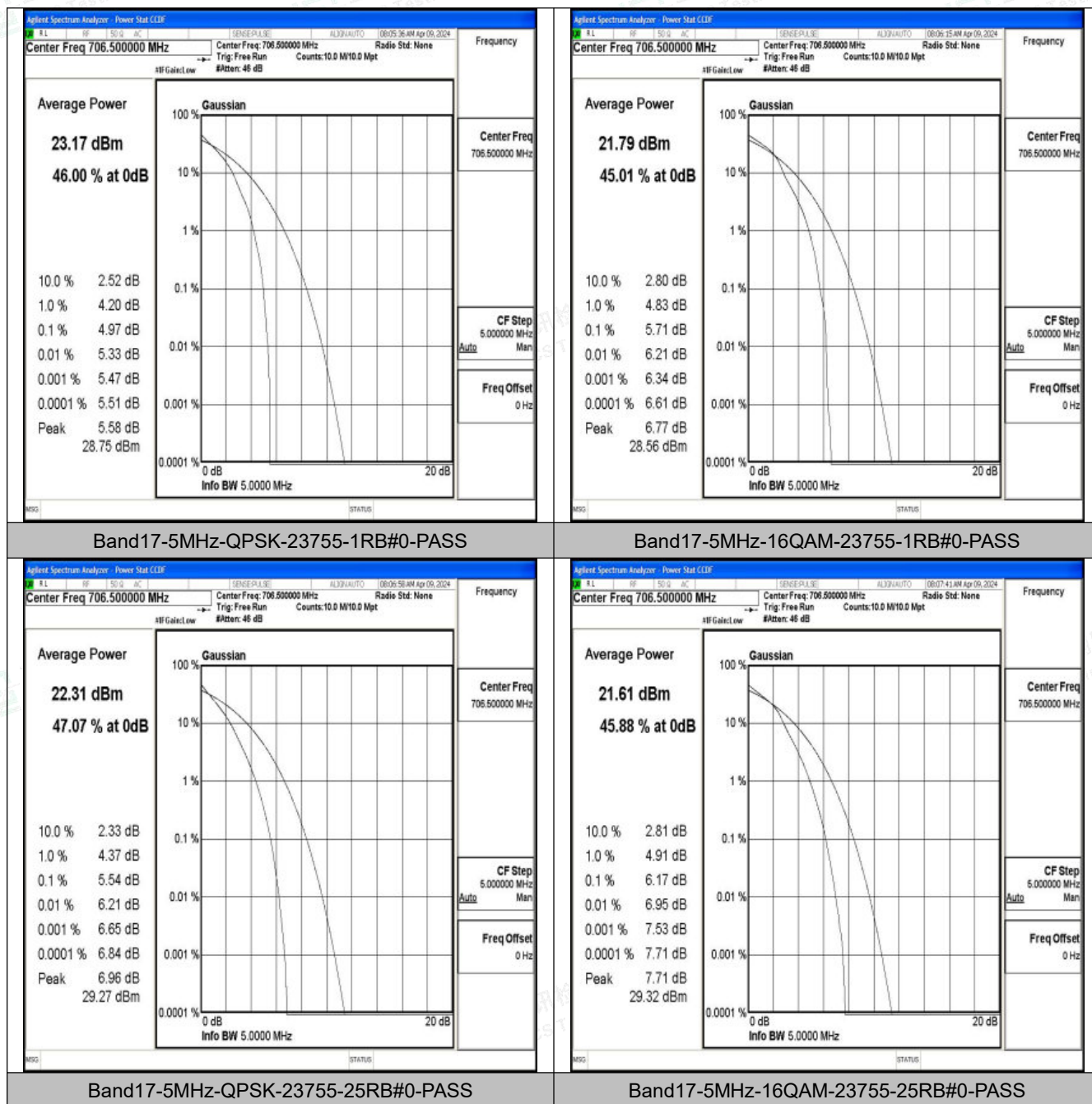
Test Result

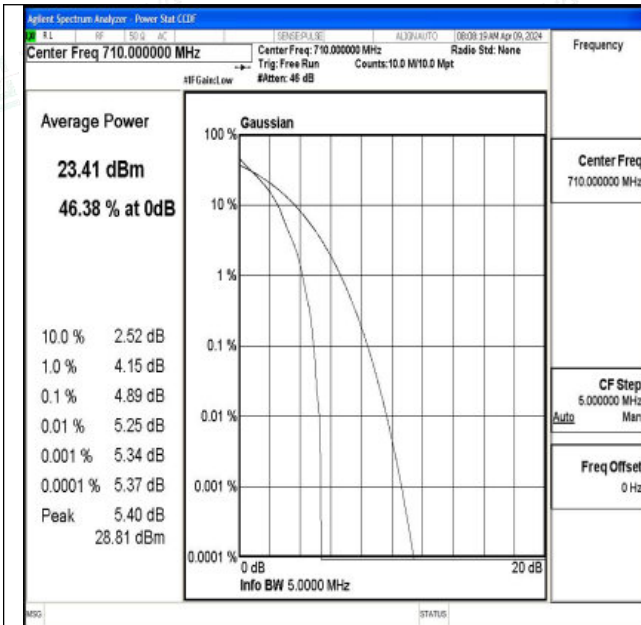
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Band17	5MHz	16QAM	23755	1RB#0	5.71	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.54	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.17	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.89	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.65	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.52	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.15	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.86	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.56	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.33	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.03	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.92	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.59	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.22	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.69	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.57	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.49	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.20	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.80	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.32	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.45	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.17	13	PASS



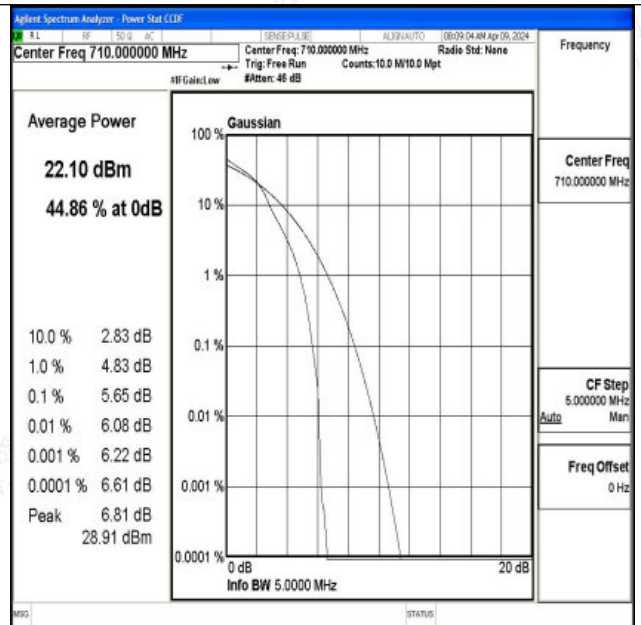


Test Graphs

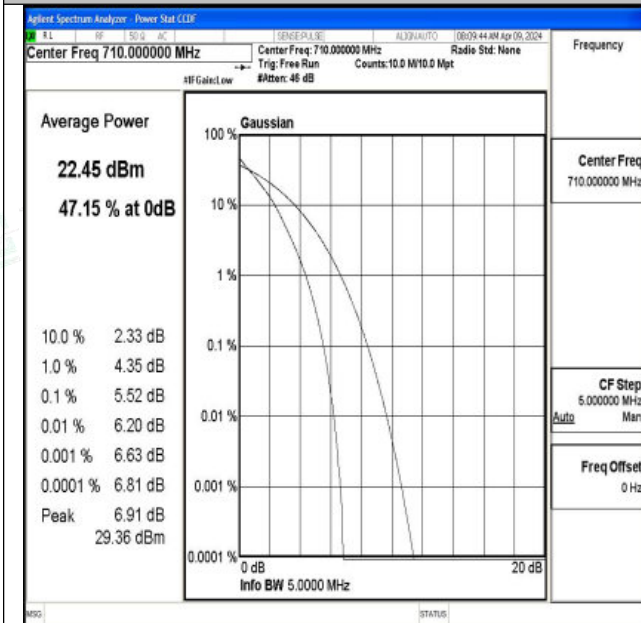




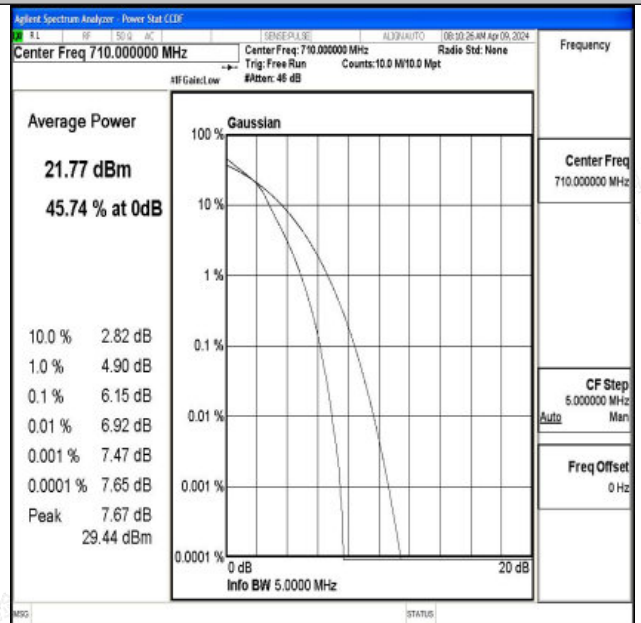
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Band17-5MHz-16QAM-23790-1RB#0-PASS



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



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

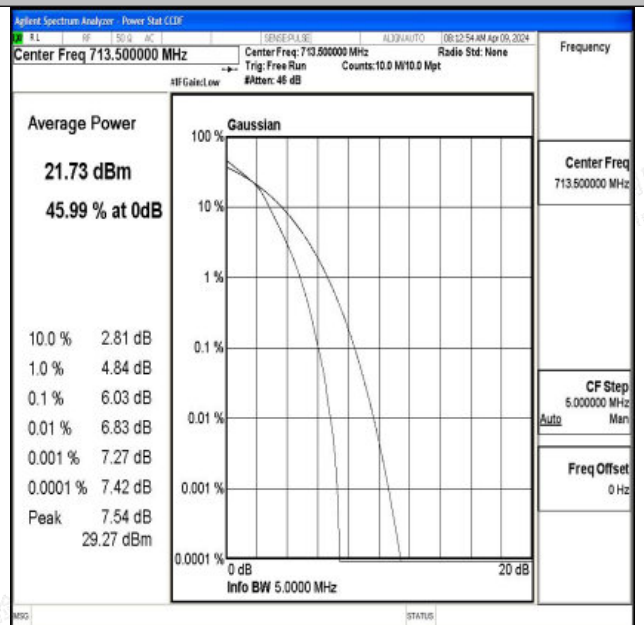
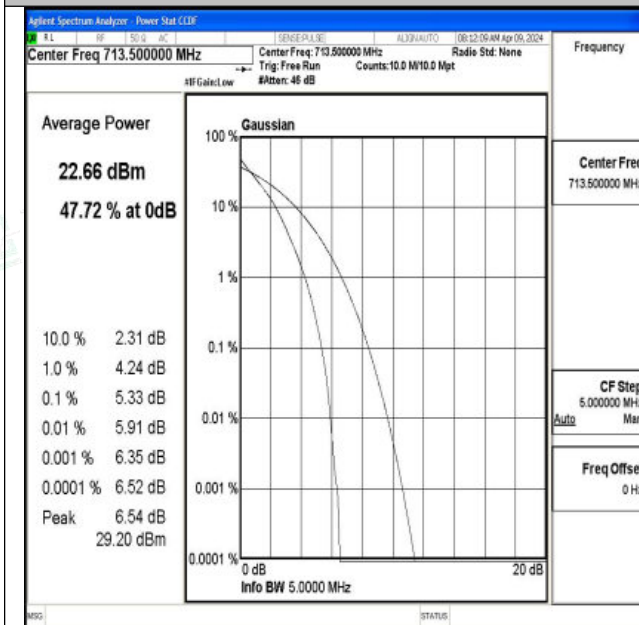
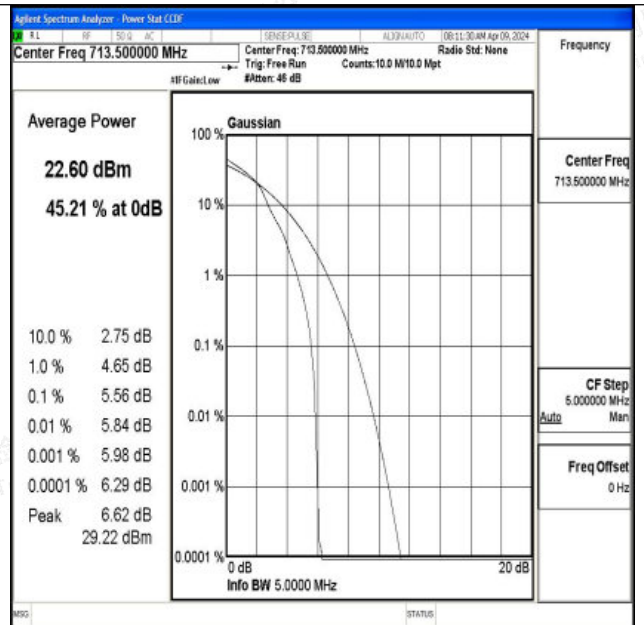
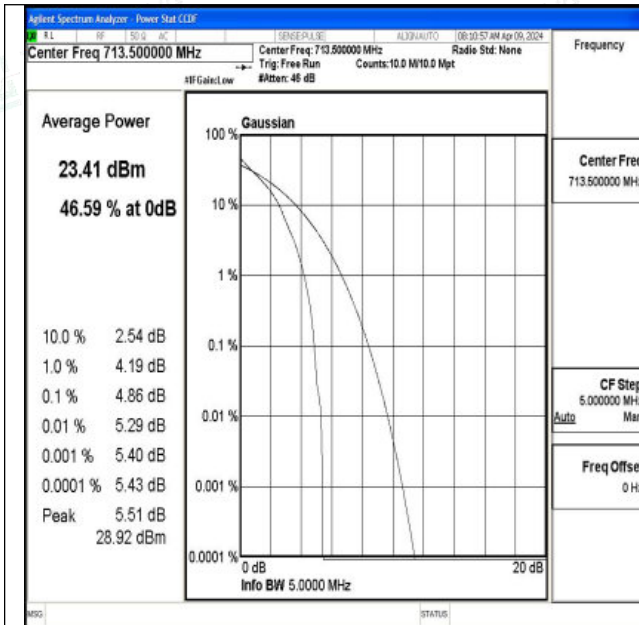


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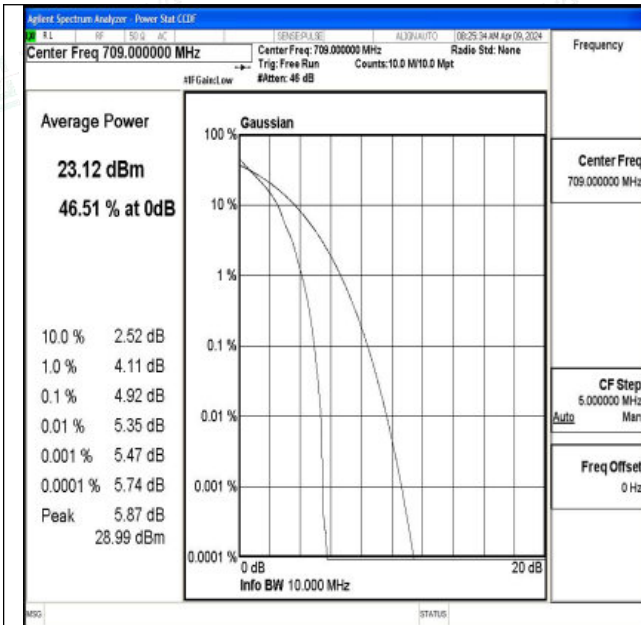


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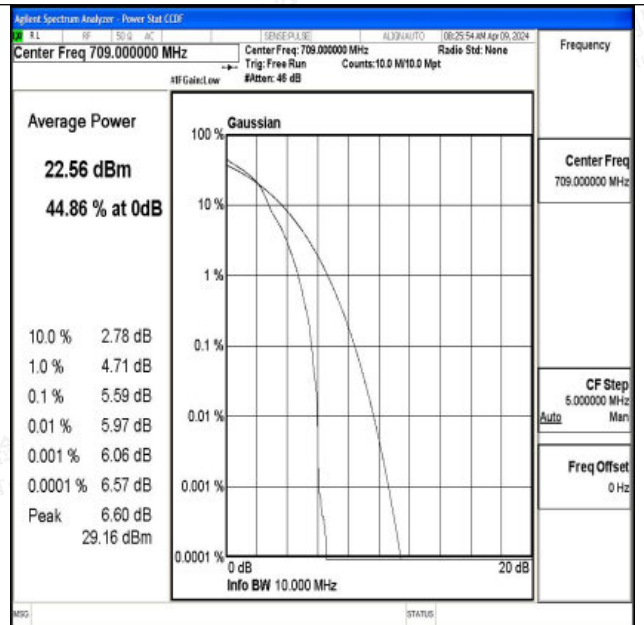
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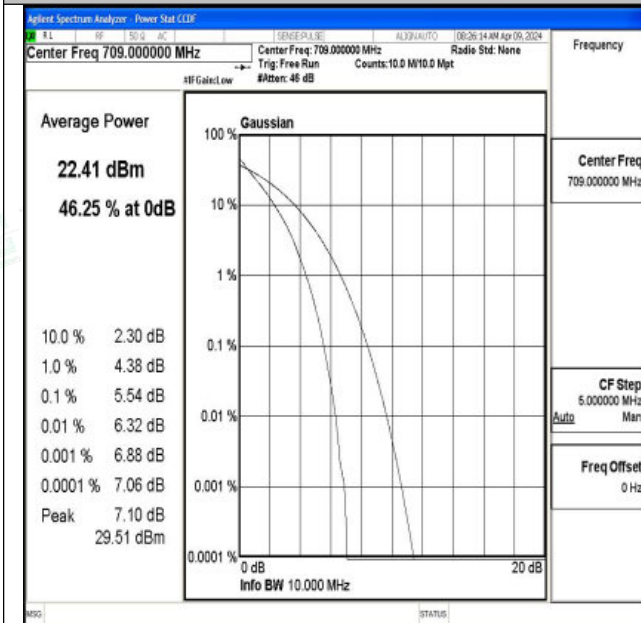
Scan code to check authenticity



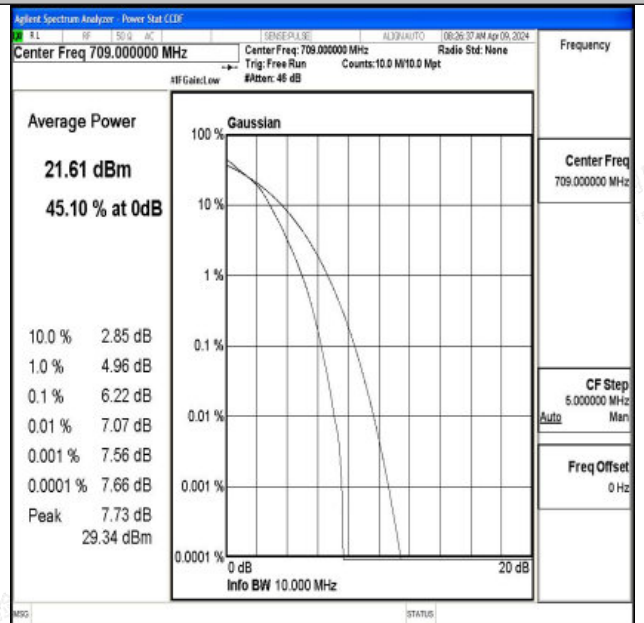
Band17-10MHz-QPSK-23780-1RB#0-PASS



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

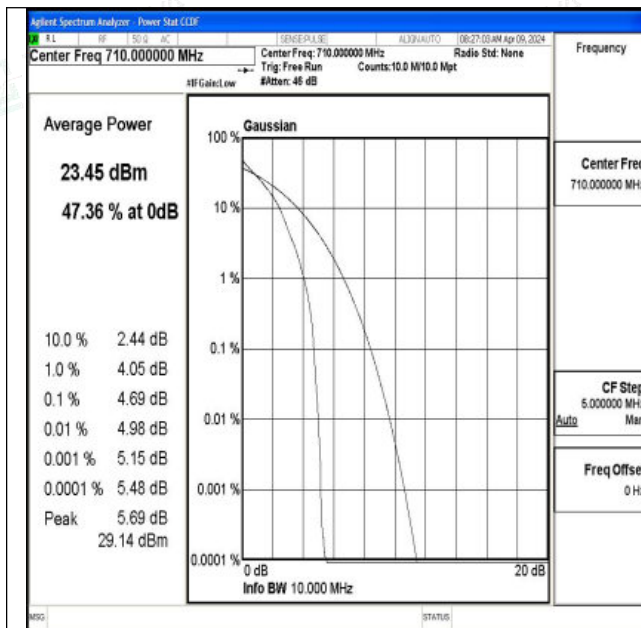


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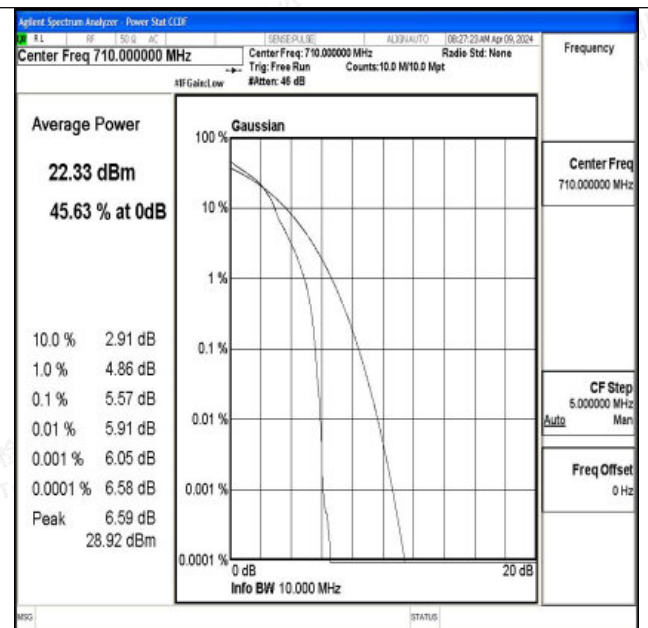


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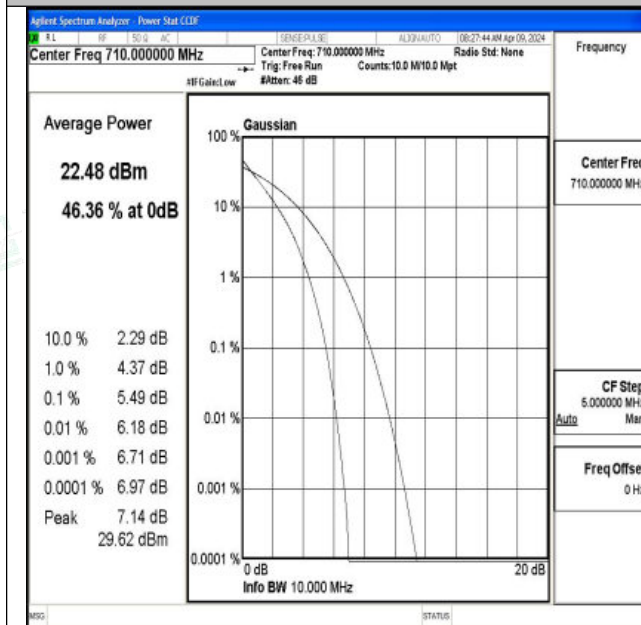




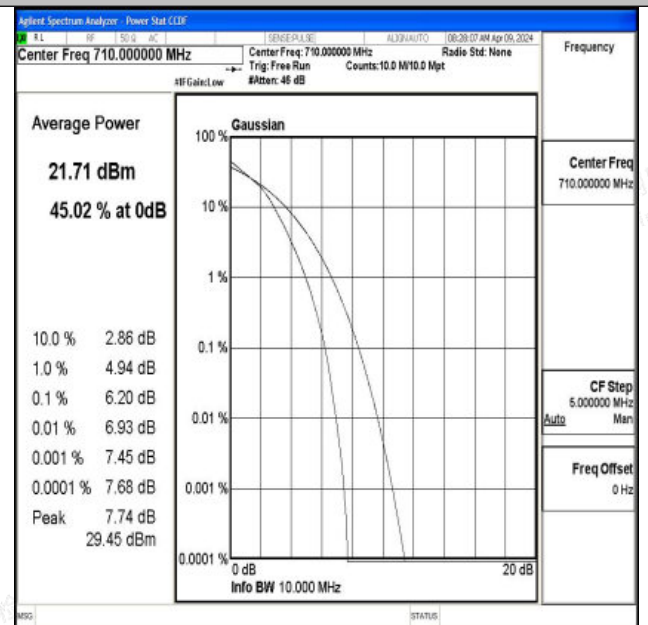
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Band17-10MHz-16QAM-23790-1RB#0-PASS



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



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

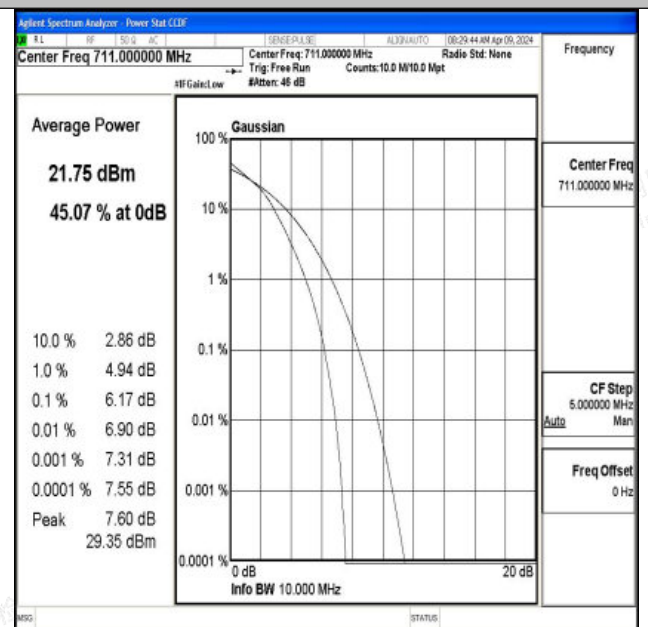
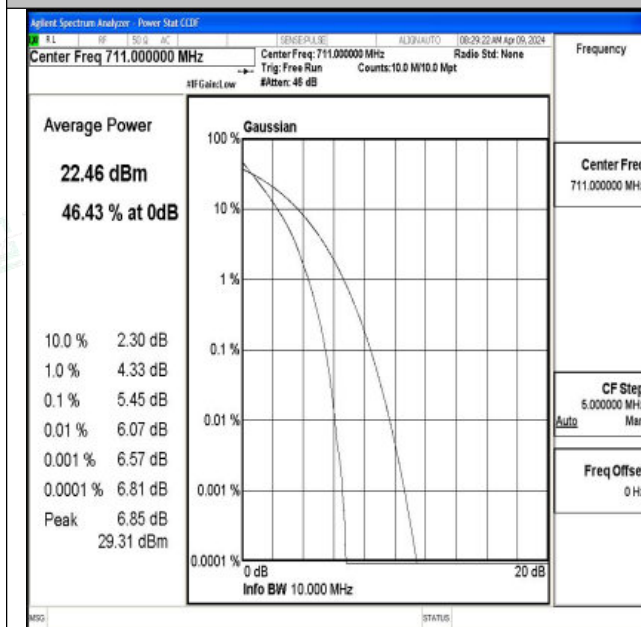
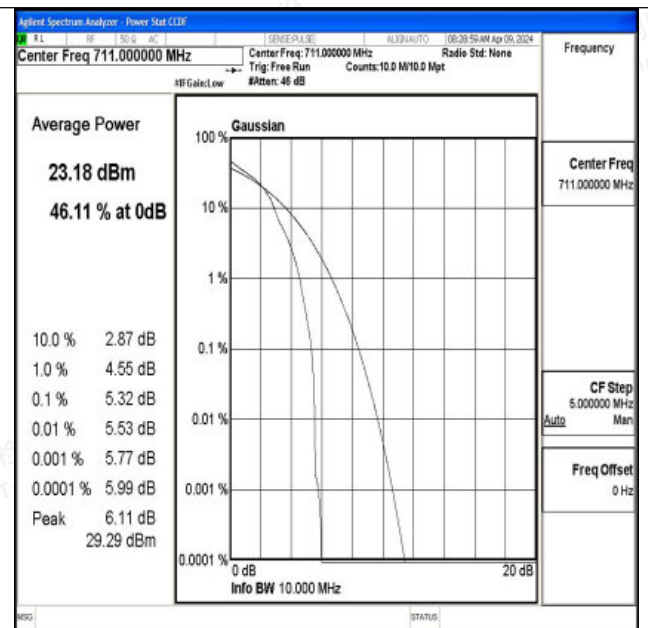
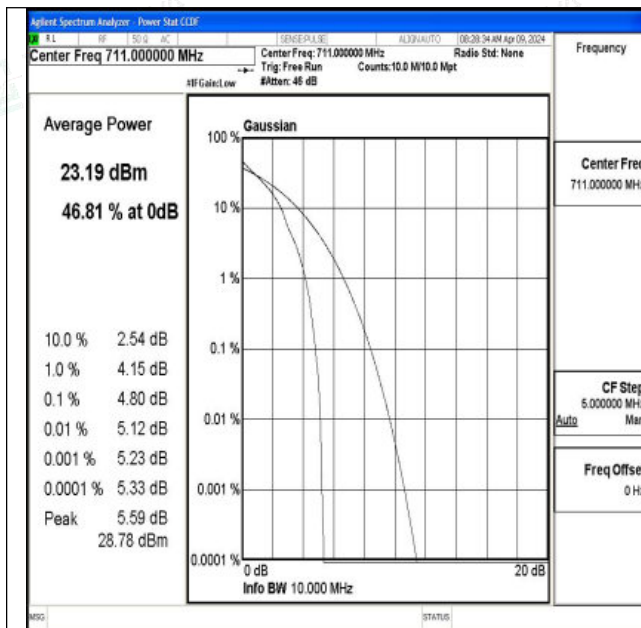


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G.3 26dB Bandwidth and Occupied Bandwidth

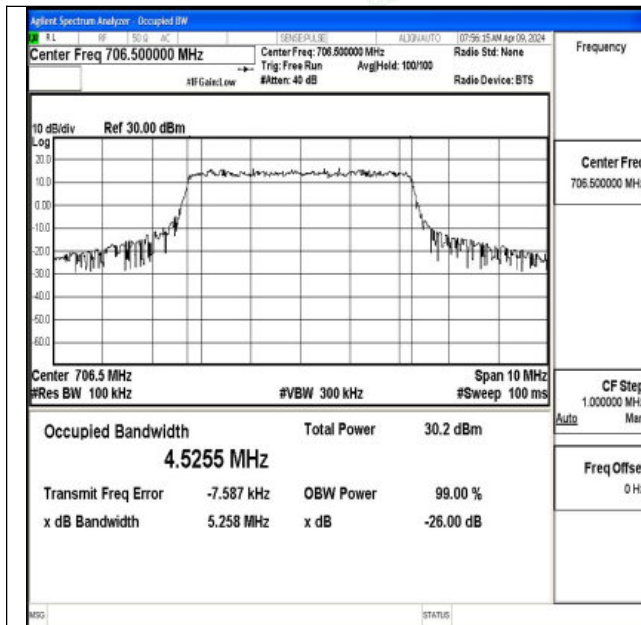
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5255	5.258	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5149	5.245	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5168	5.334	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5241	5.253	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5134	5.374	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5371	5.327	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9946	9.999	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9949	10.24	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0258	10.08	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0071	10.45	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9673	10.10	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9841	10.19	PASS

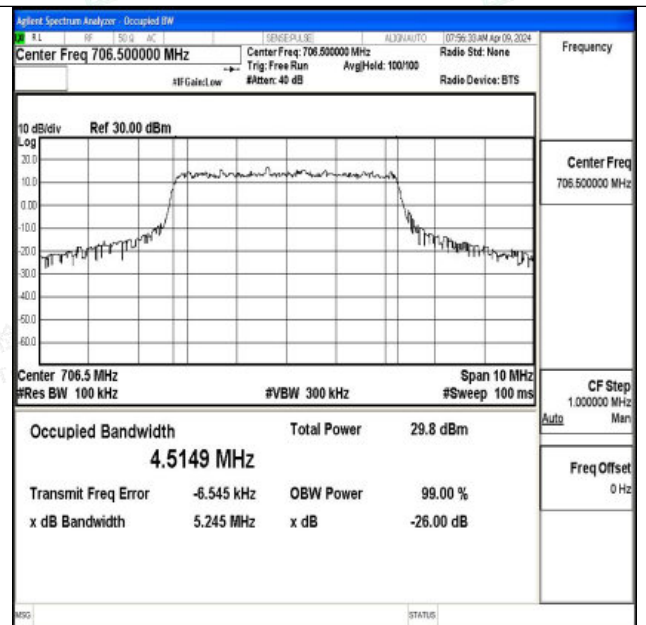




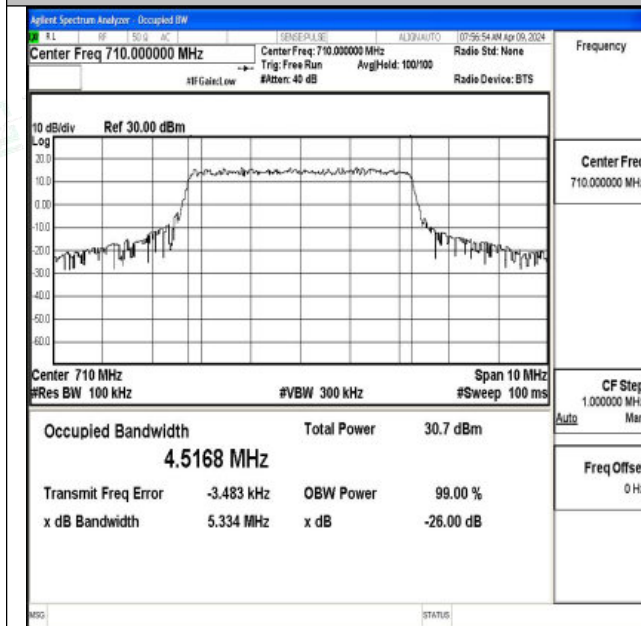
Test Graphs



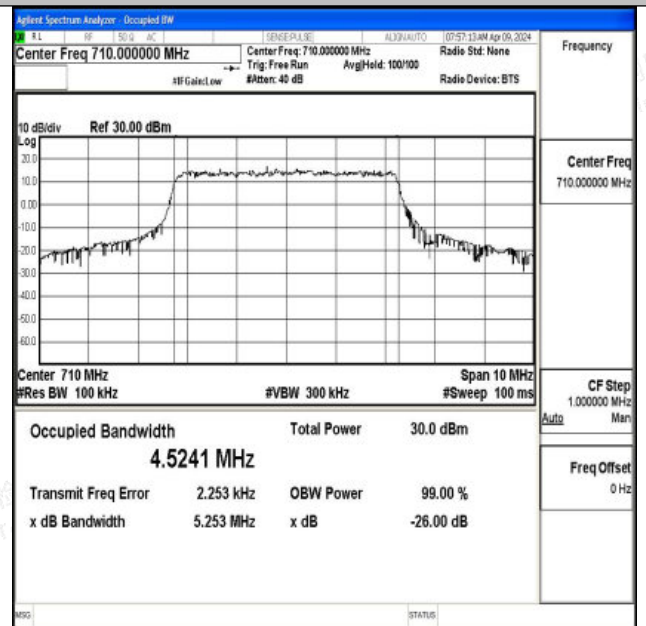
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Band17-5MHz-16QAM-23755-25RB#0-PASS



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



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

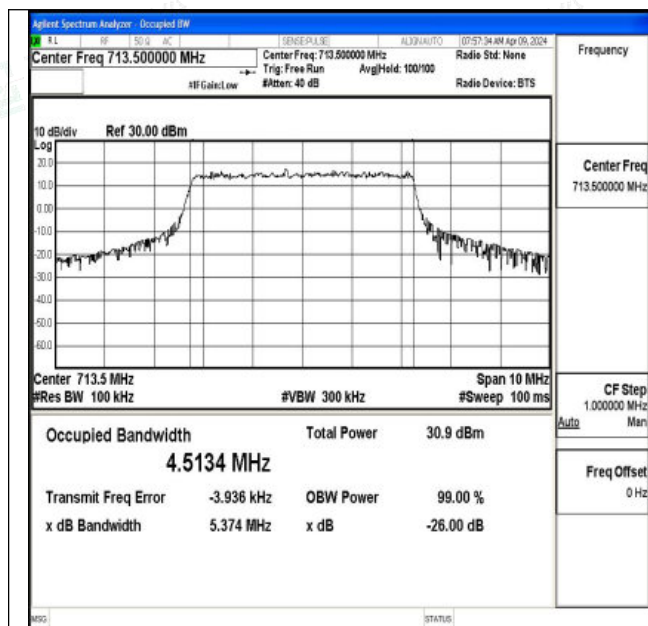


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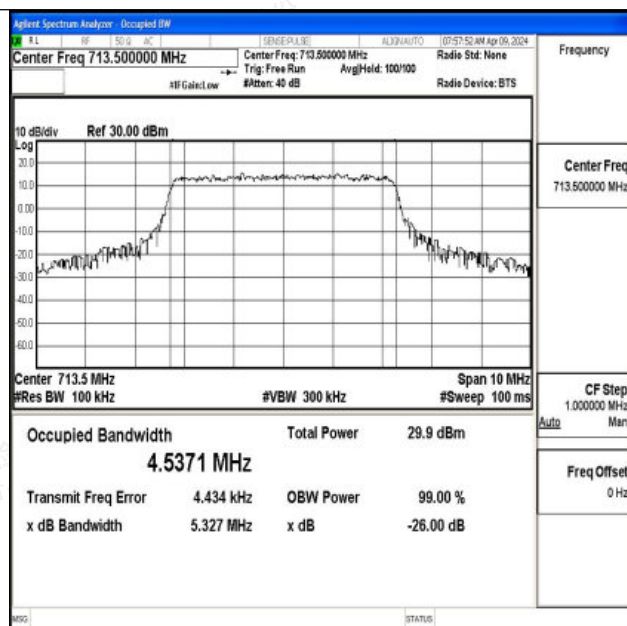
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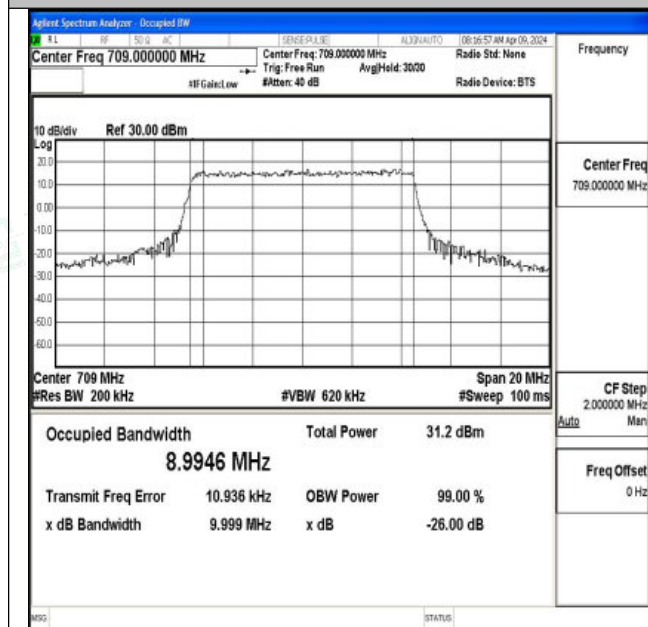
Scan code to check authenticity



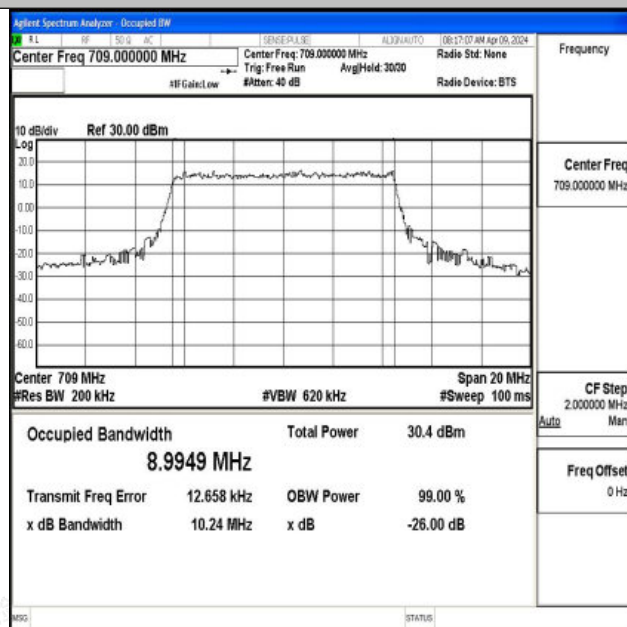
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Band17-5MHz-16QAM-23825-25RB#0-PASS



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



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

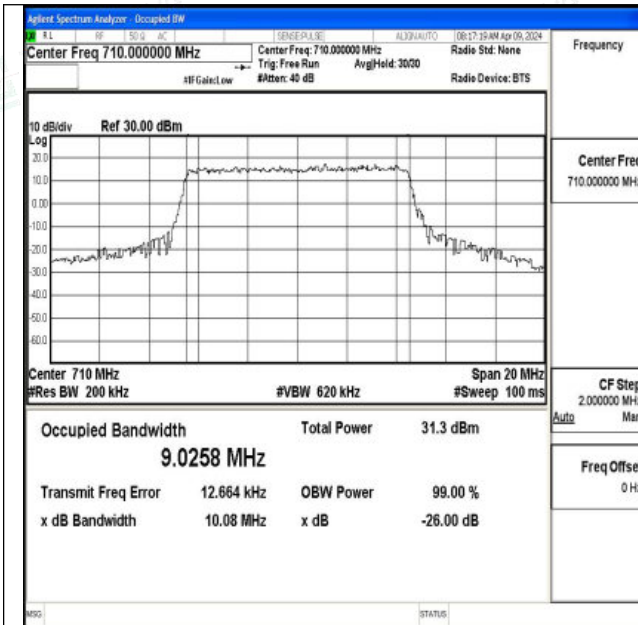


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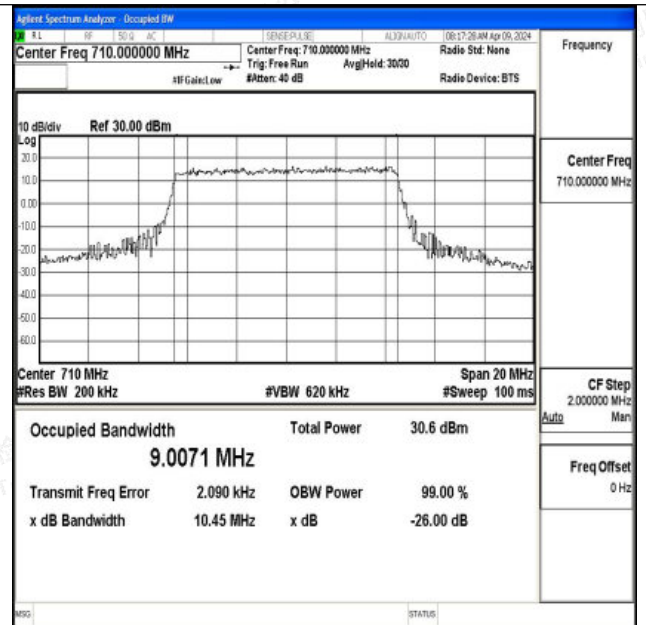
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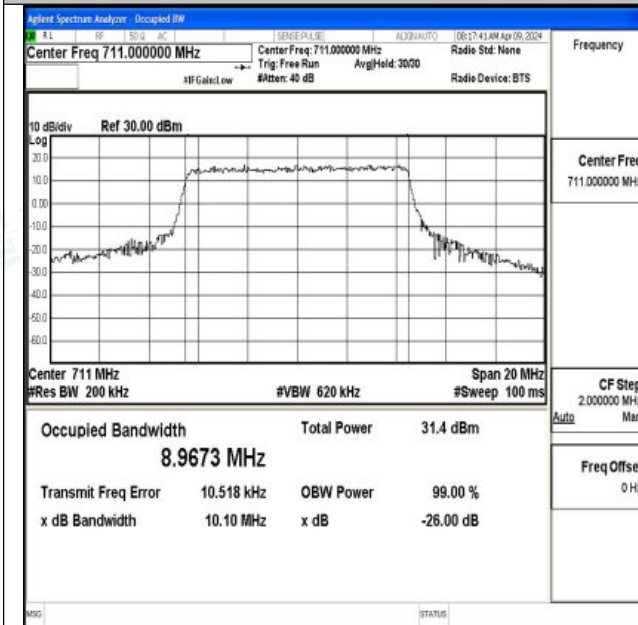
Scan code to check authenticity



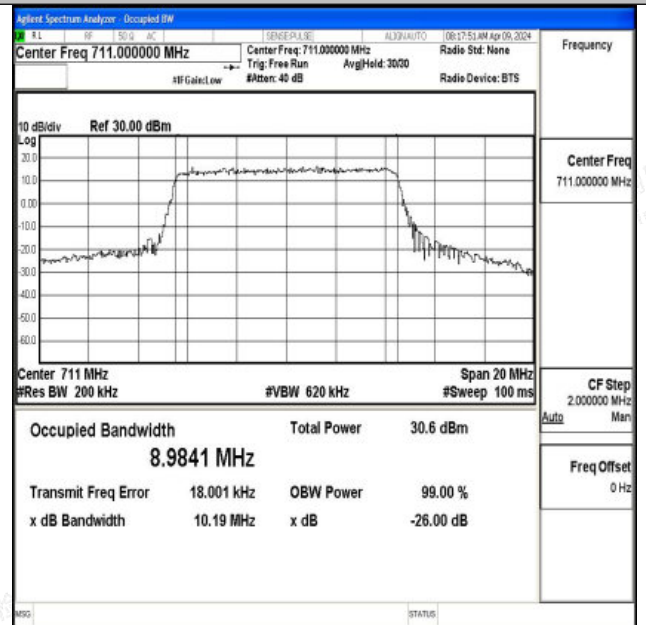
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Band17-10MHz-16QAM-23790-50RB#0-PASS



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



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



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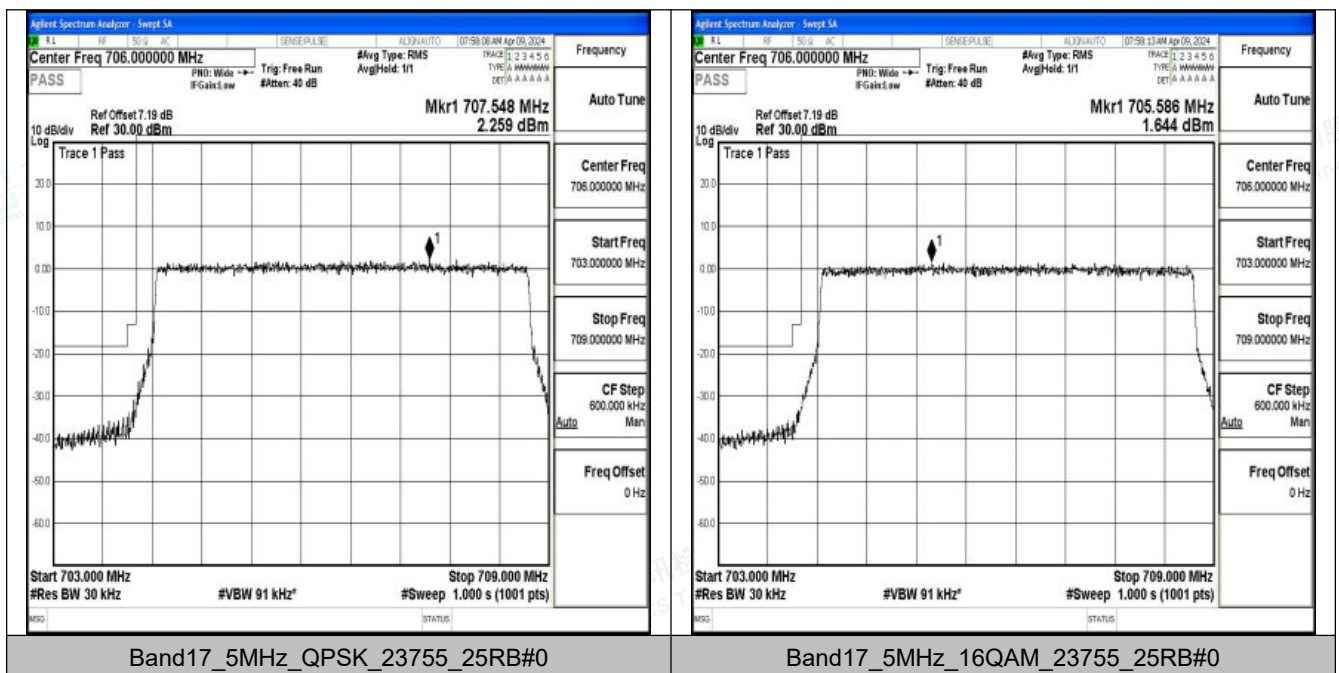


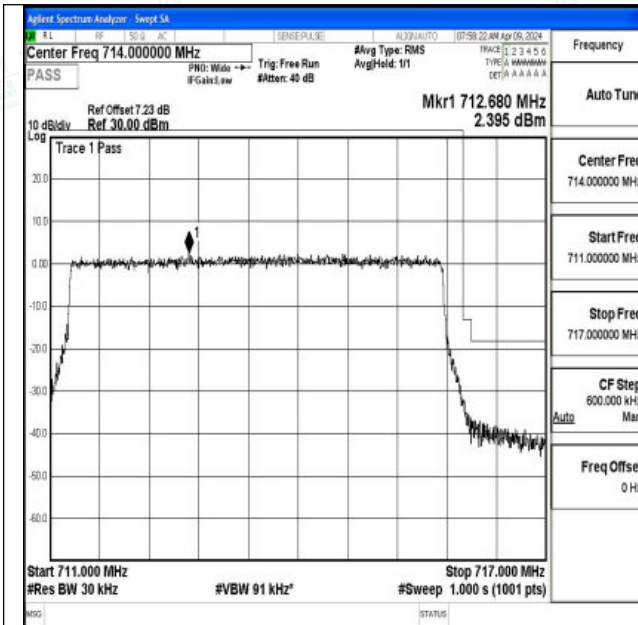
G.4 Band Edge

Test Result

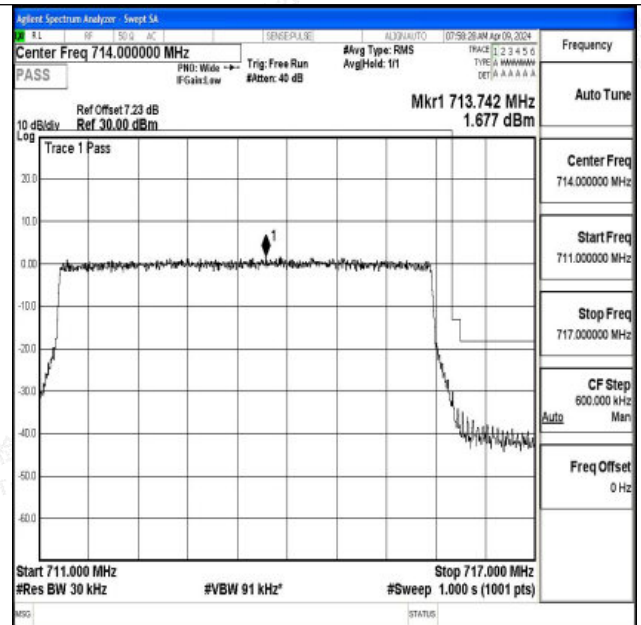
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-35.09	PASS
Band17	5MHz	16QAM	23755	25RB#0	-35.73	PASS
Band17	5MHz	QPSK	23825	25RB#0	-36.90	PASS
Band17	5MHz	16QAM	23825	25RB#0	-34.90	PASS
Band17	10MHz	QPSK	23780	50RB#0	-38.38	PASS
Band17	10MHz	16QAM	23780	50RB#0	-39.36	PASS
Band17	10MHz	QPSK	23800	50RB#0	-39.74	PASS
Band17	10MHz	16QAM	23800	50RB#0	-39.58	PASS

Test Graphs

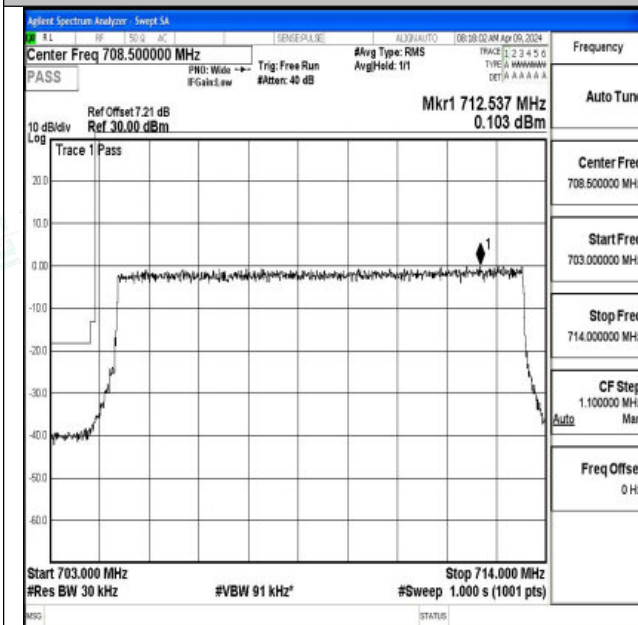




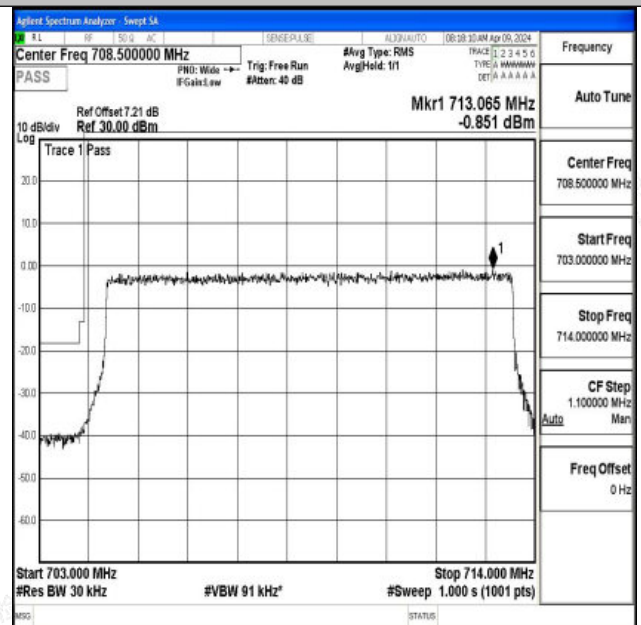
Band17_5MHz_QPSK_23825_25RB#0



Band17_5MHz_16QAM_23825_25RB#0



Band17_10MHz_QPSK_23780_50RB#0



Band17_10MHz_16QAM_23780_50RB#0

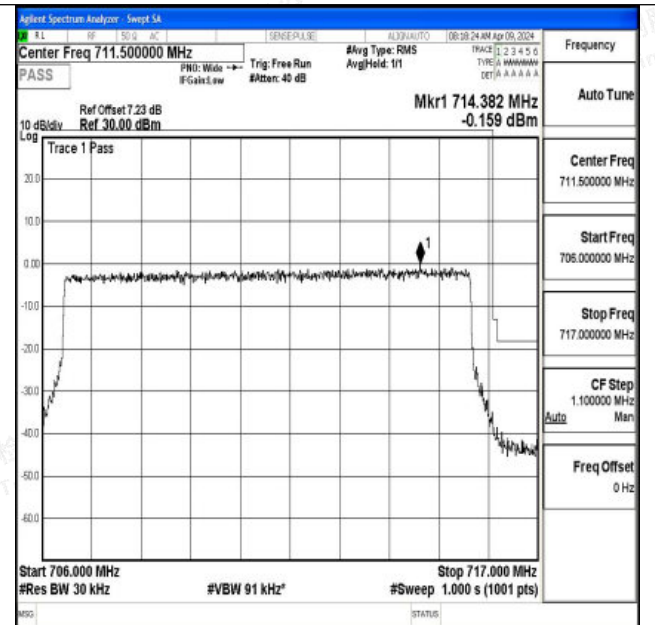
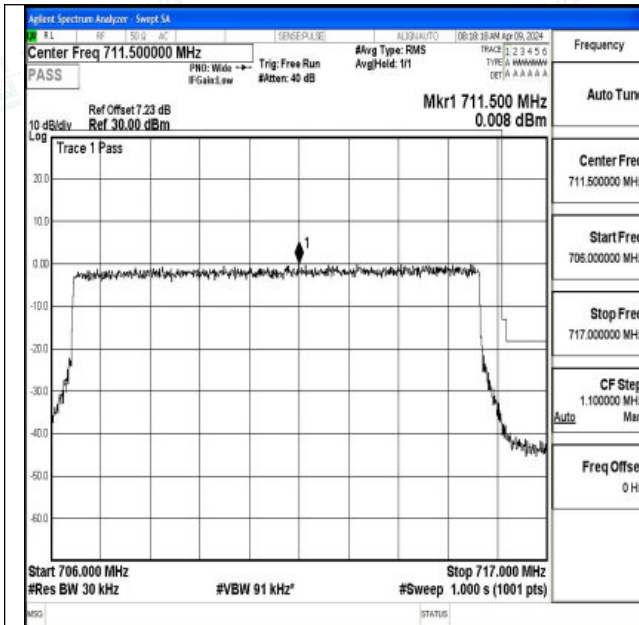


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G.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-57.74	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-53.04	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-60.40	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-43.96	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-44.06	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-56.38	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-52.81	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-59.74	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-45.96	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-43.78	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-56.29	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-51.14	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-59.51	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-44.57	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-44.20	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-56.18	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-52.74	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-61.47	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-46.42	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-44.04	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-58.83	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-49.42	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-57.85	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-43.39	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-44.25	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-55.80	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-54.01	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-60.27	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-43.67	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-44.01	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-57.99	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-51.53	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-61.70	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-45.87	PASS



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Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-43.94	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-58.27	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-51.33	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-61.71	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-44.98	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-44.00	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-56.97	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-50.93	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-61.94	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-45.84	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-43.90	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-58.09	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-51.66	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-62.07	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-46.34	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-44.27	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-57.62	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-51.82	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-61.97	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-44.61	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-44.13	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-55.52	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-51.81	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-61.89	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-44.15	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-43.84	PASS



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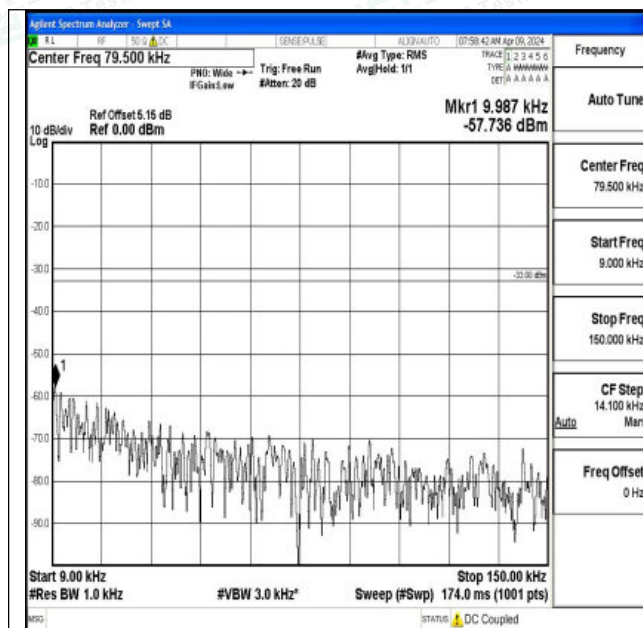
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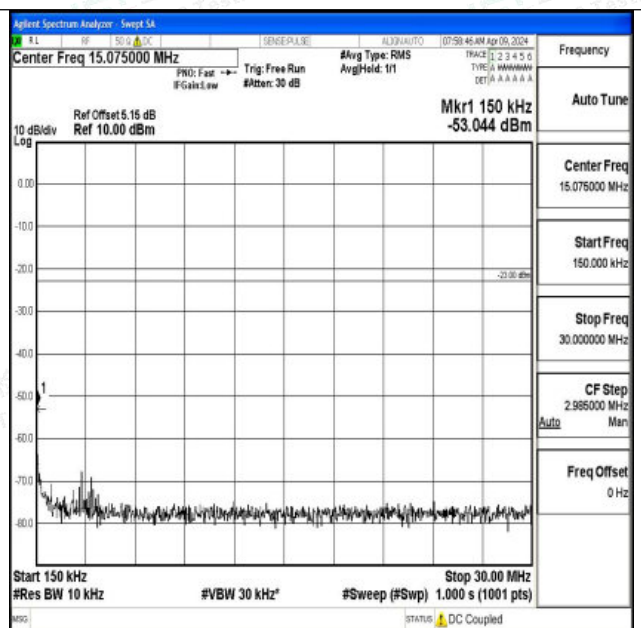
Scan code to check authenticity



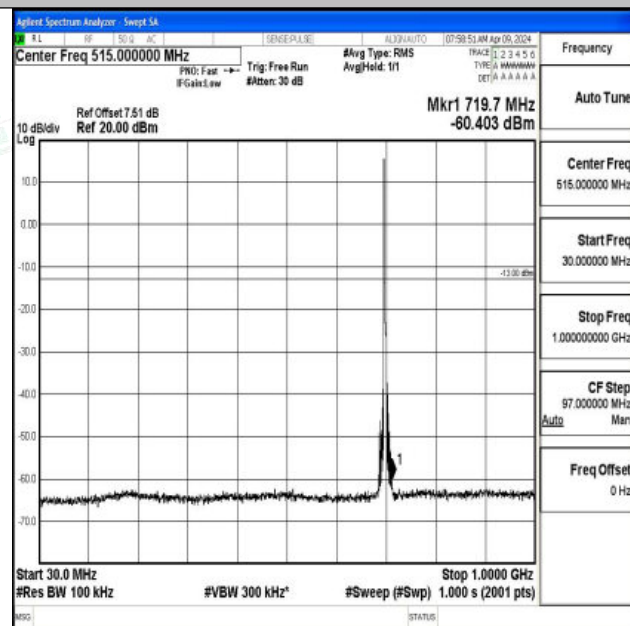
Test Graphs



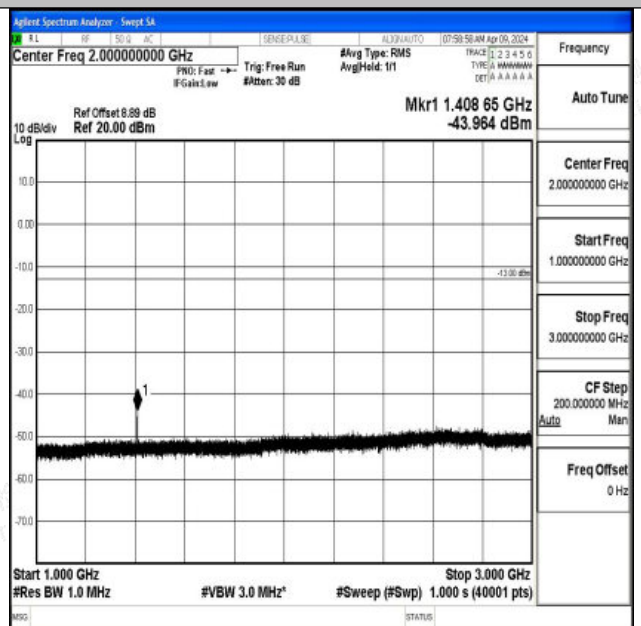
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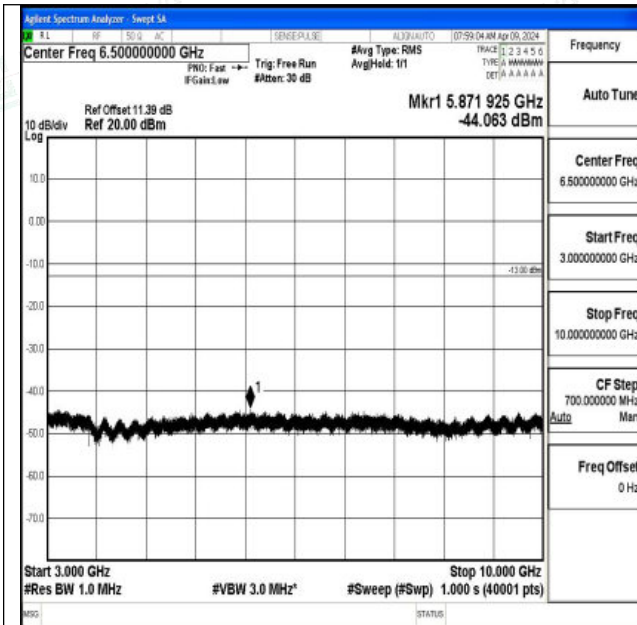


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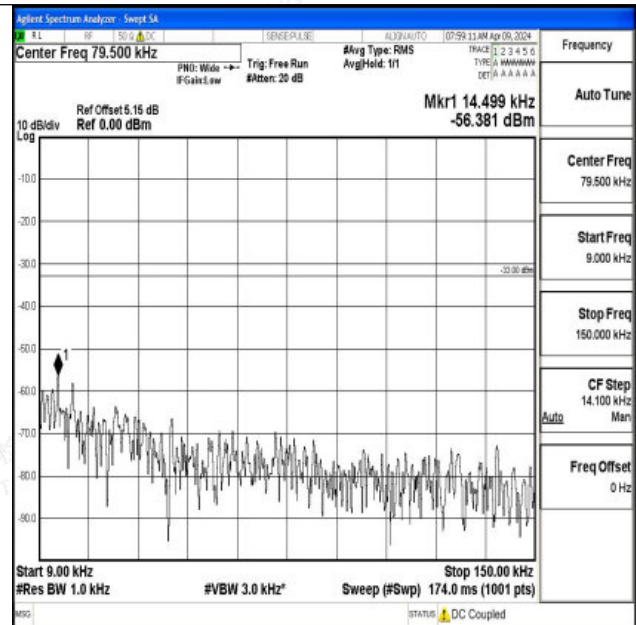


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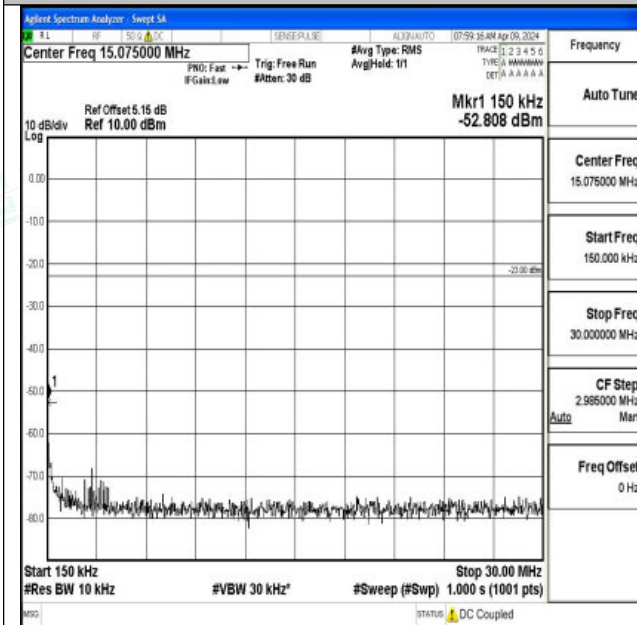




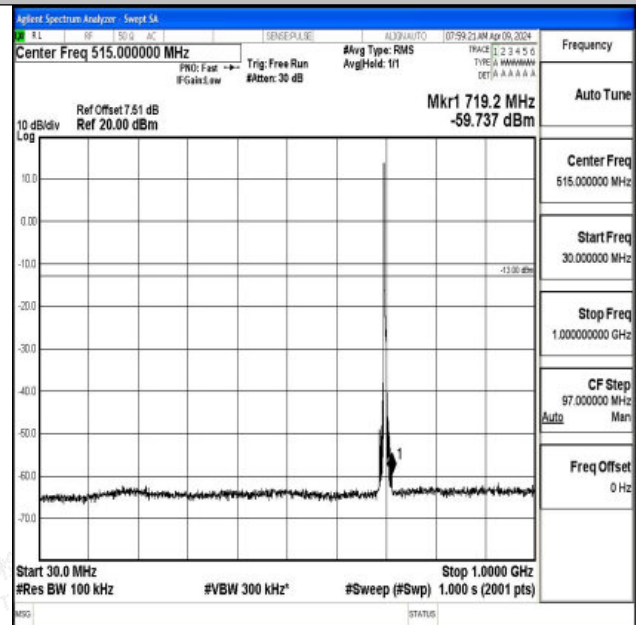
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~10000



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~0.15



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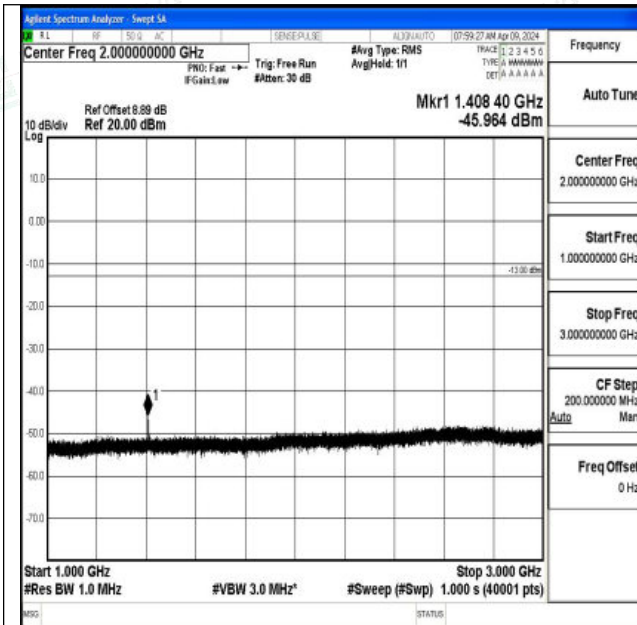


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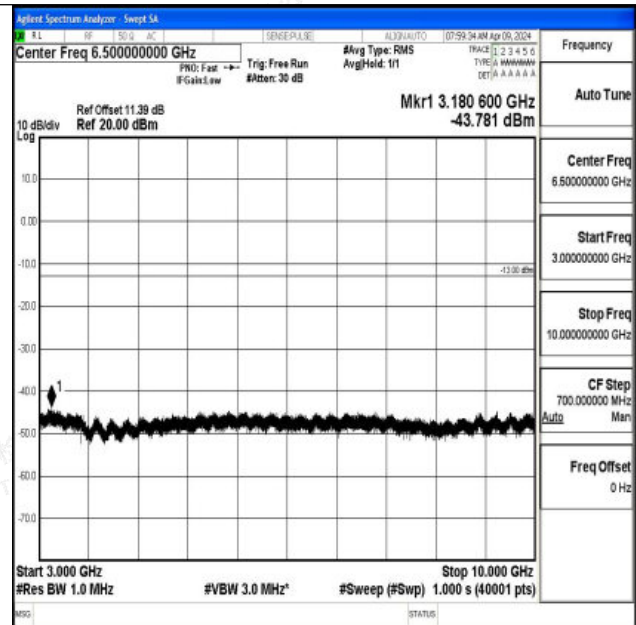
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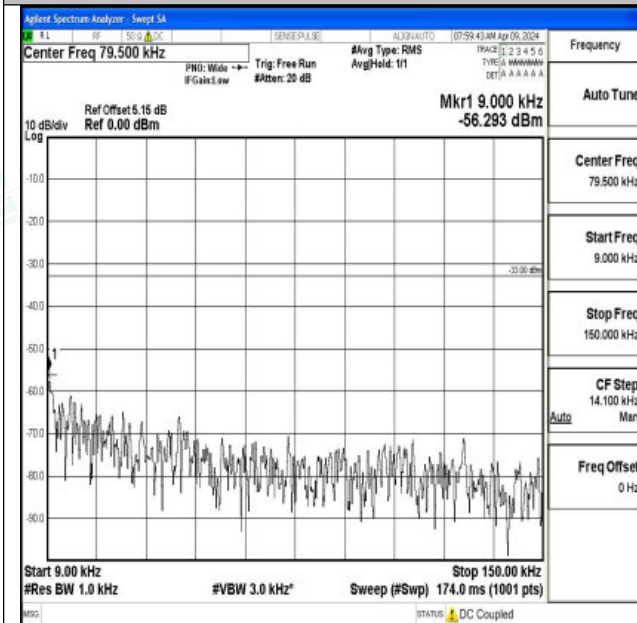
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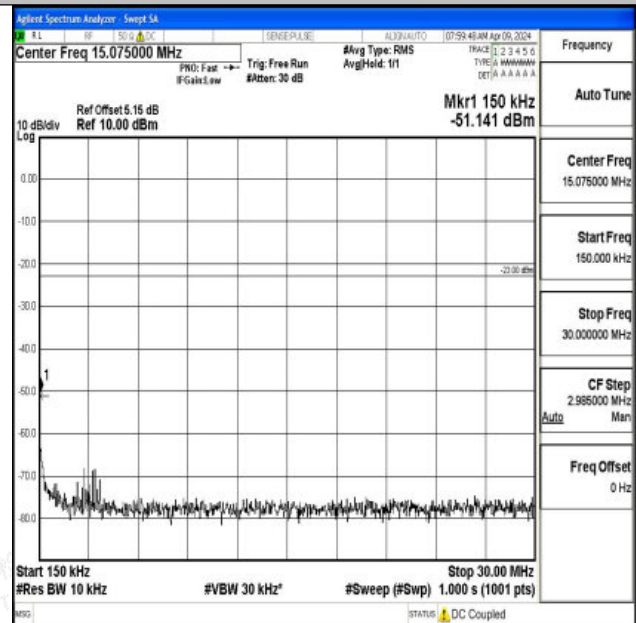
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~3000



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~10000



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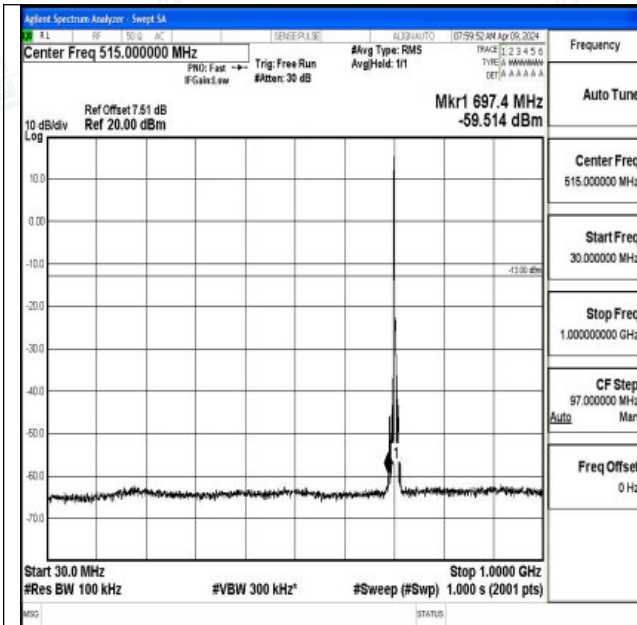


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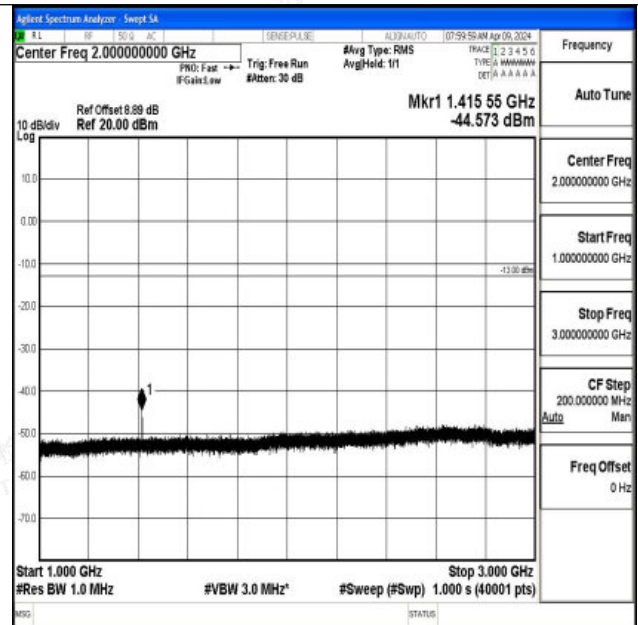
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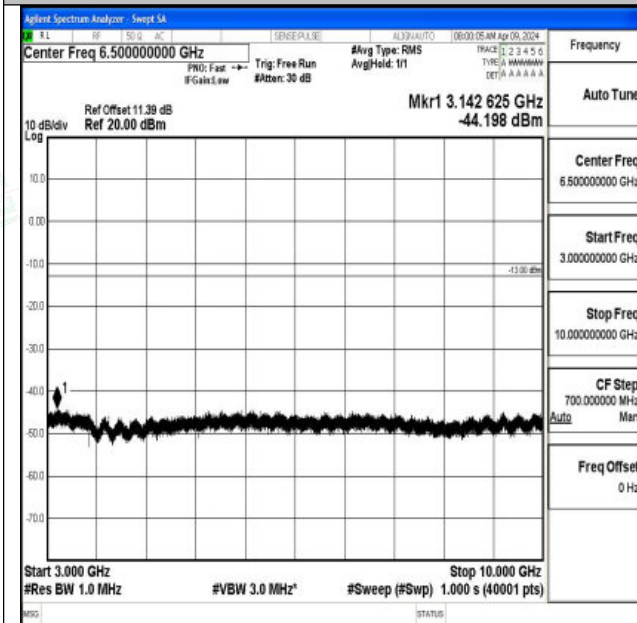
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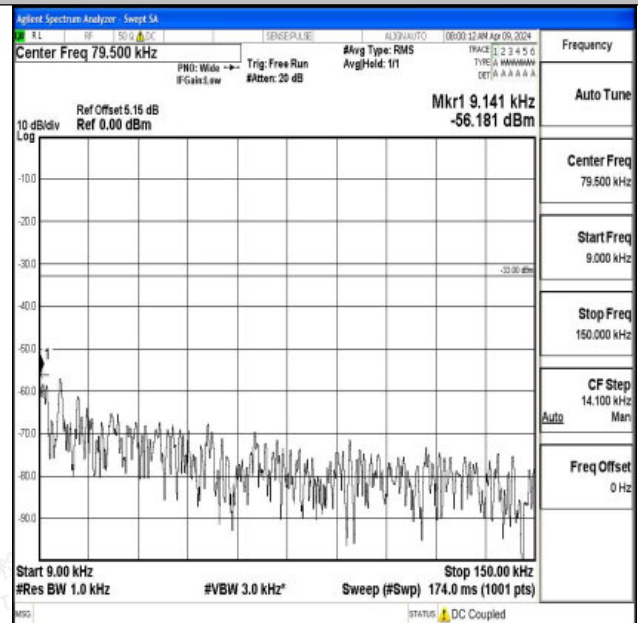
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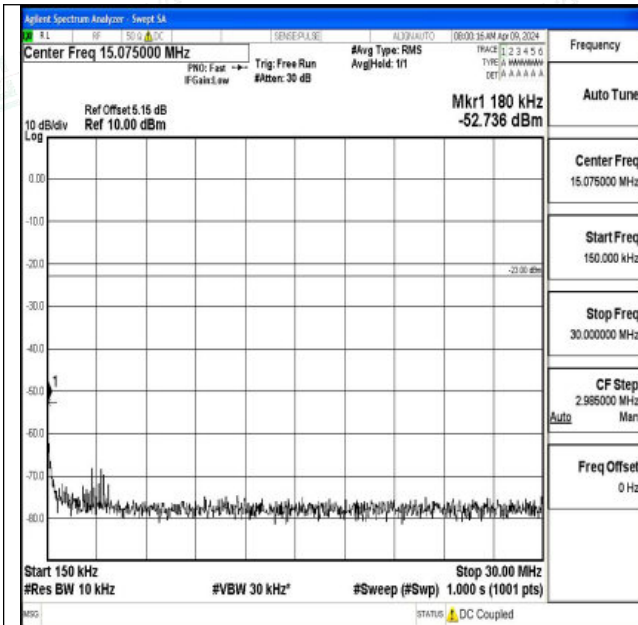


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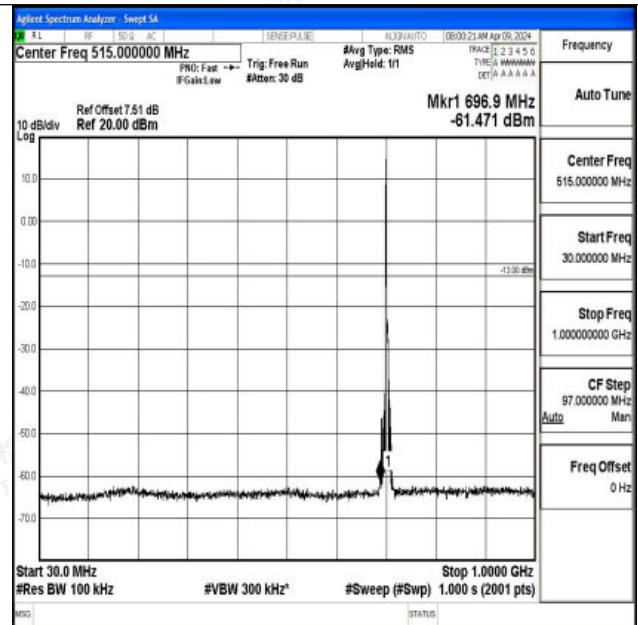


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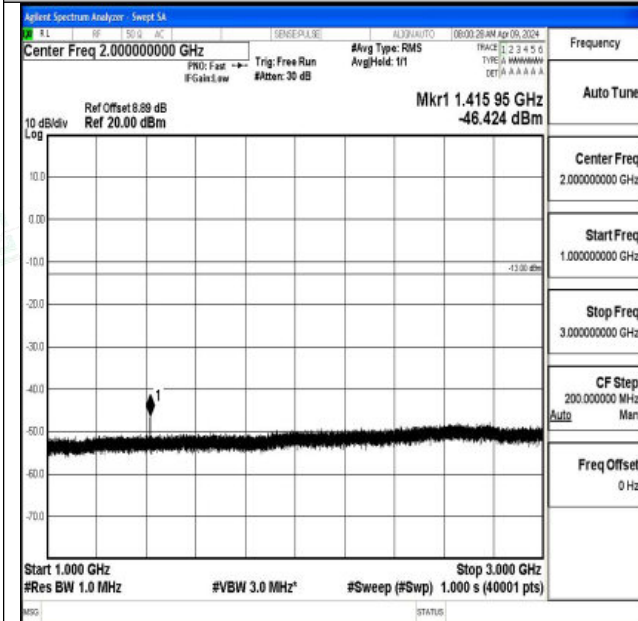




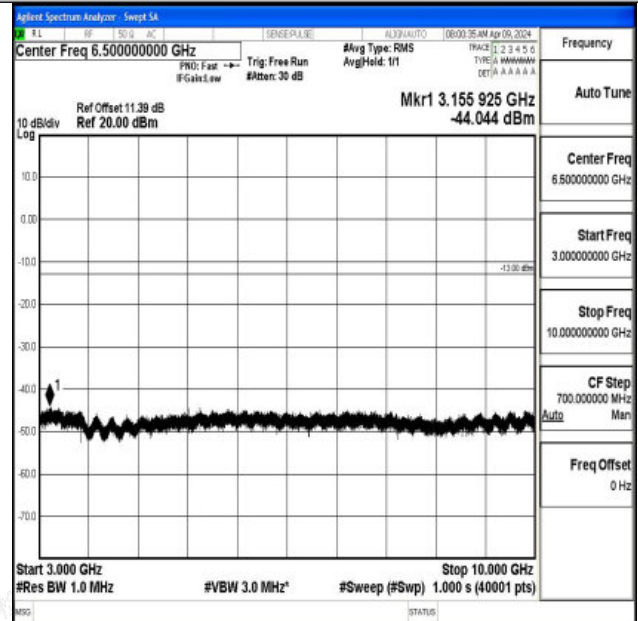
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Band17_5MHz_16QAM_23790_1RB#0_30~1000_30~1000



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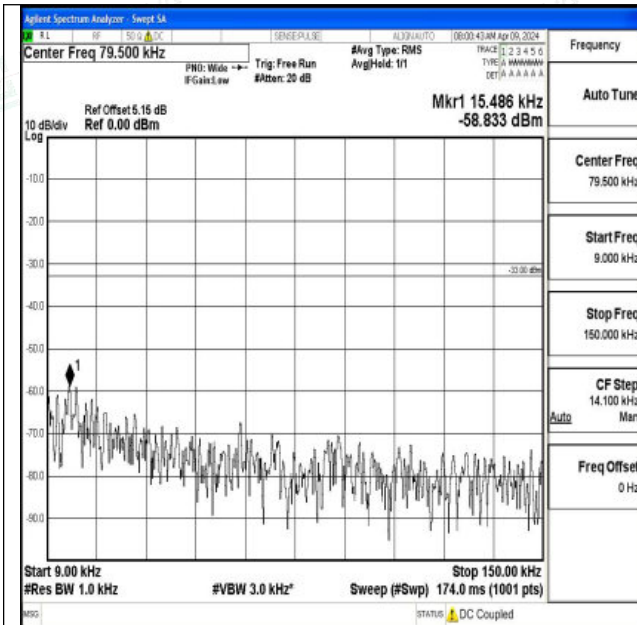


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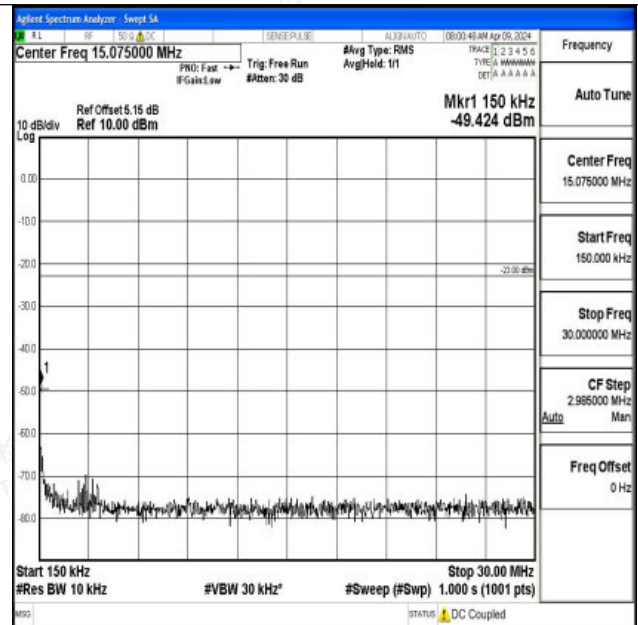
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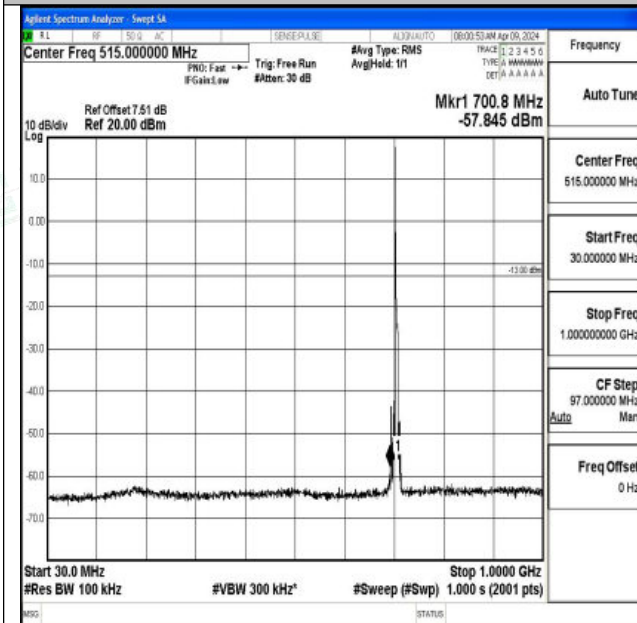
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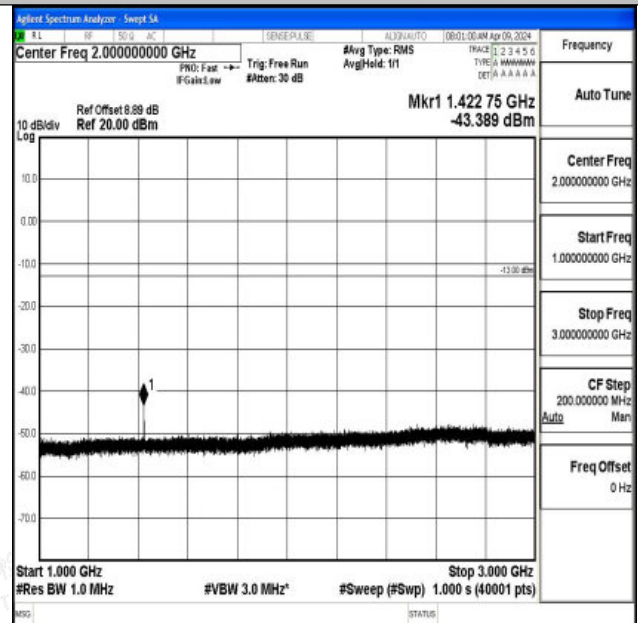
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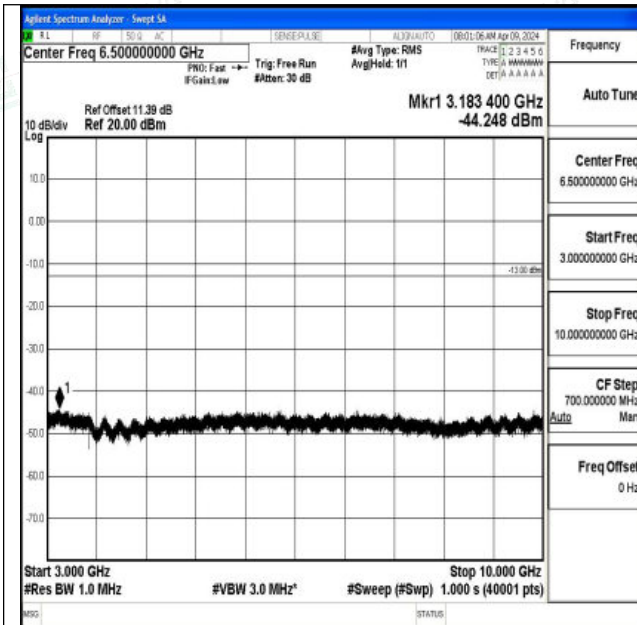


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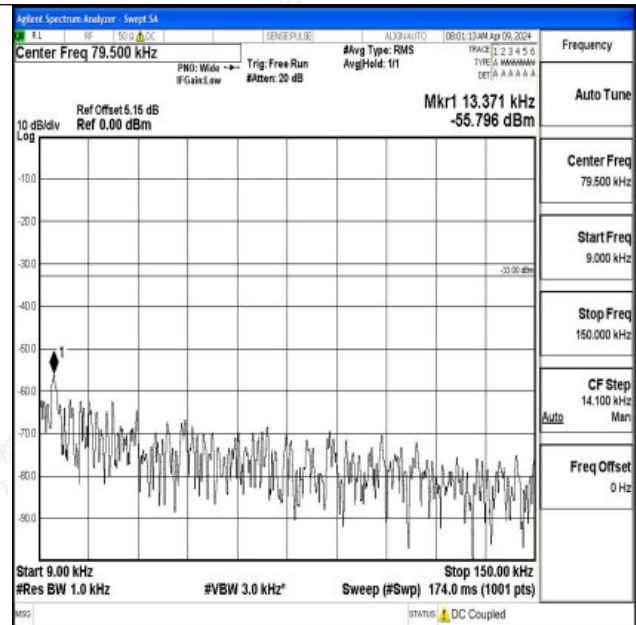


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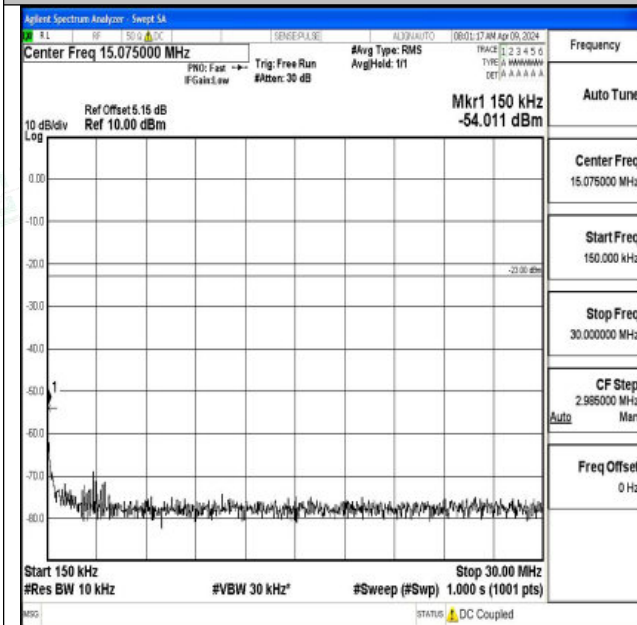




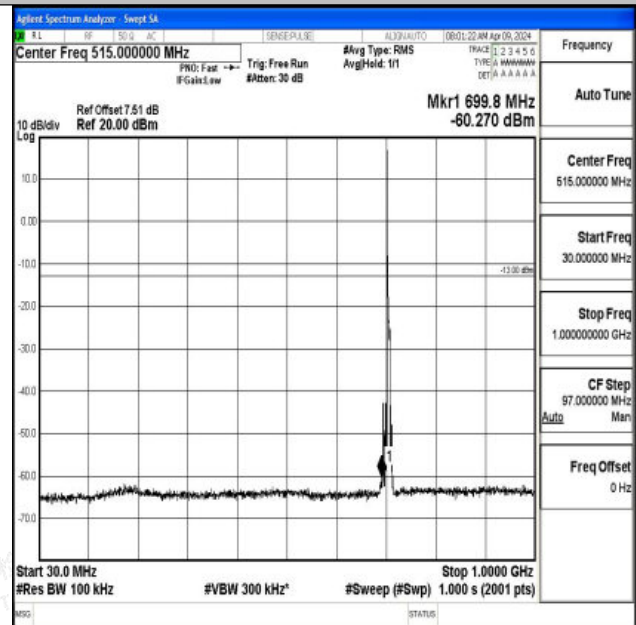
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~10000



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~0.15



Band17_5MHz_16QAM_23825_1RB#0_0.15~30_0.15~30



Band17_5MHz_16QAM_23825_1RB#0_30~1000_30~1000

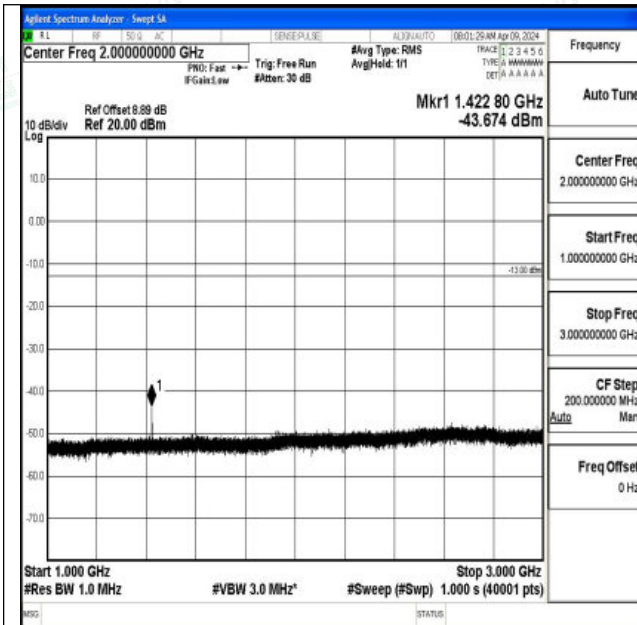


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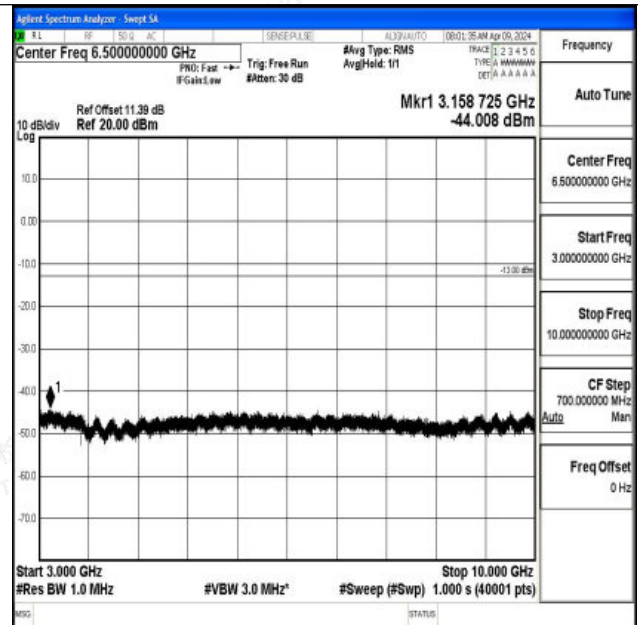
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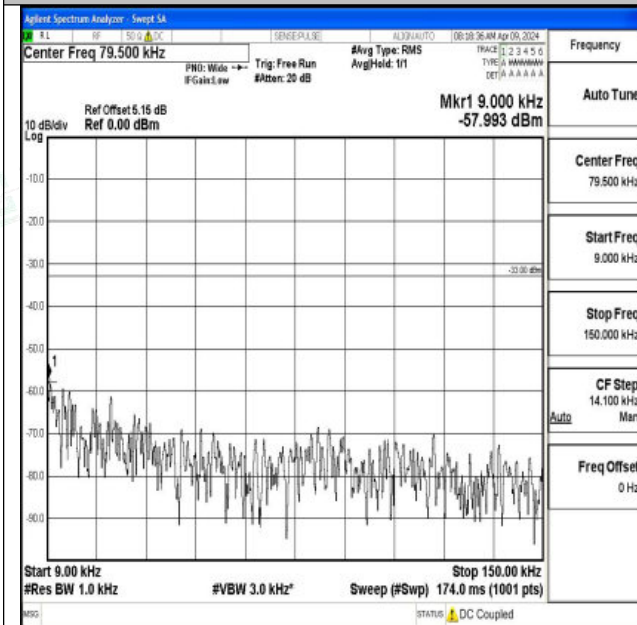
Scan code to check authenticity



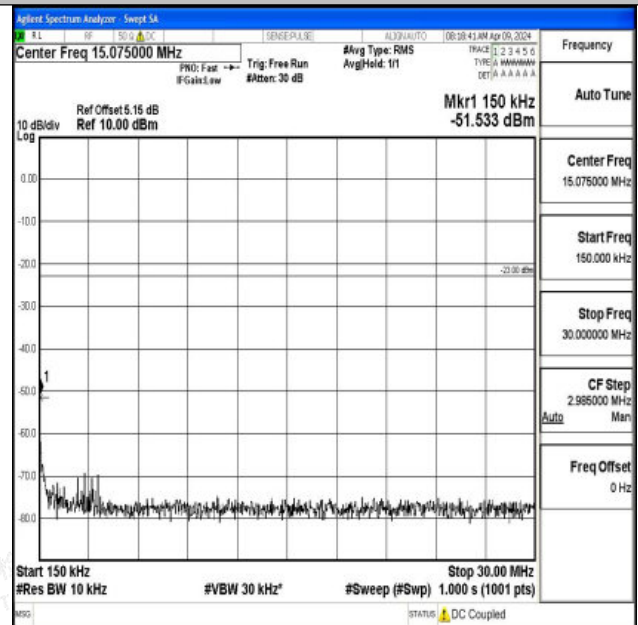
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~3000



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~10000



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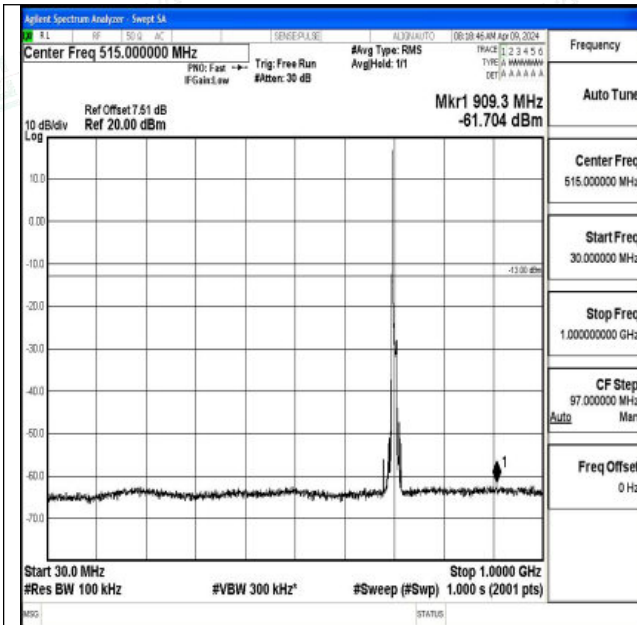


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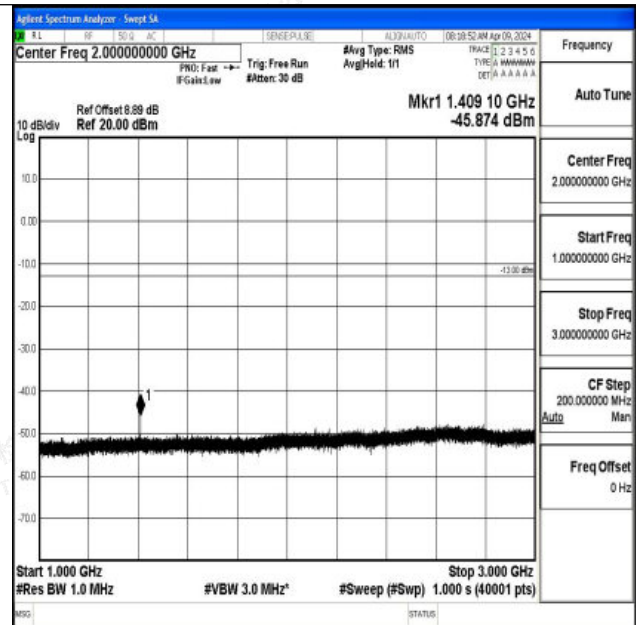
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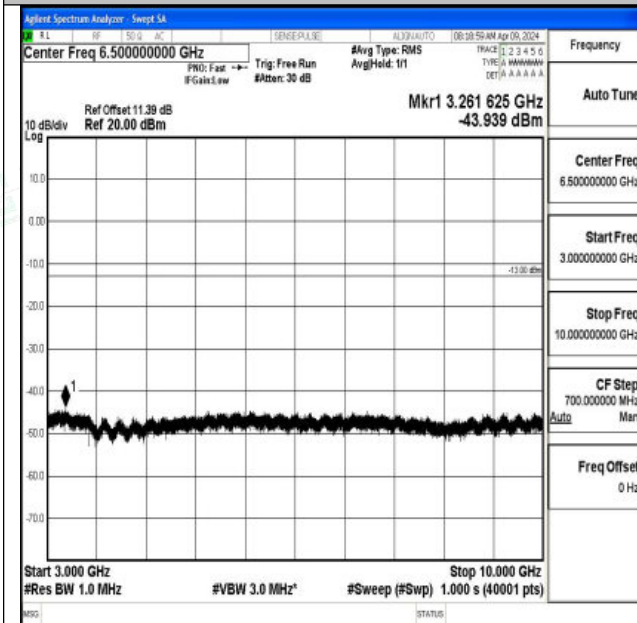
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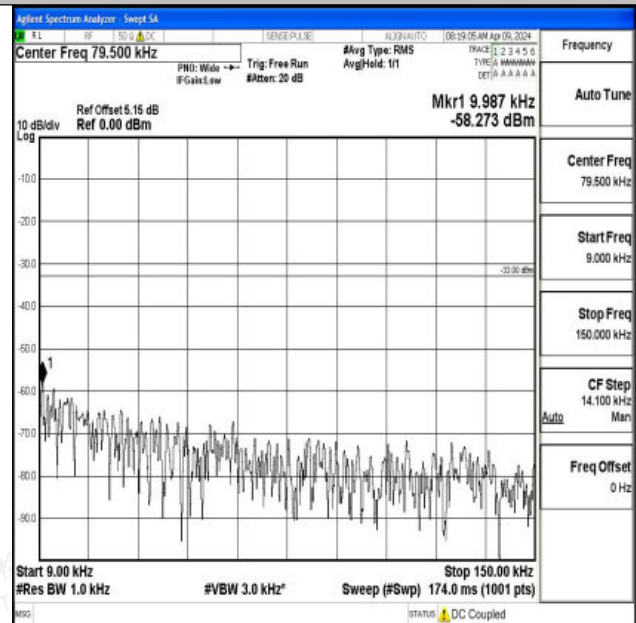
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3000



Band17_10MHz_QPSK_23780_1RB#0_3000~10000_3000~10000

0~10000



Band17_10MHz_16QAM_23780_1RB#0_0.009~0.15_0.009~0.15

~0.15

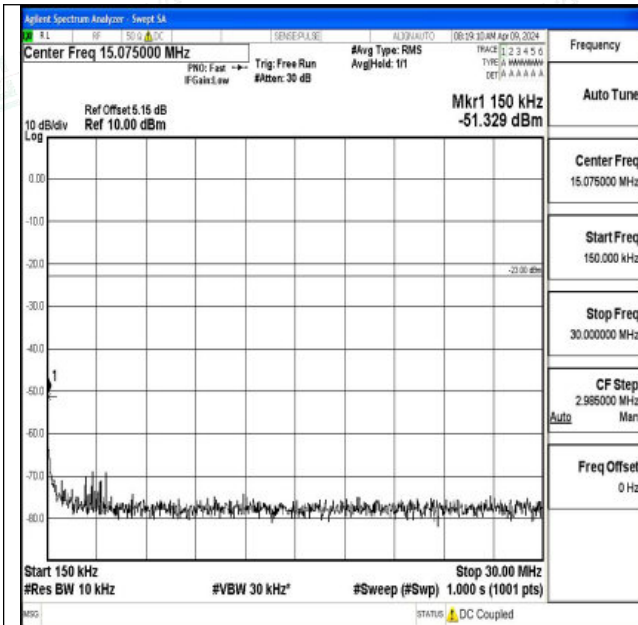


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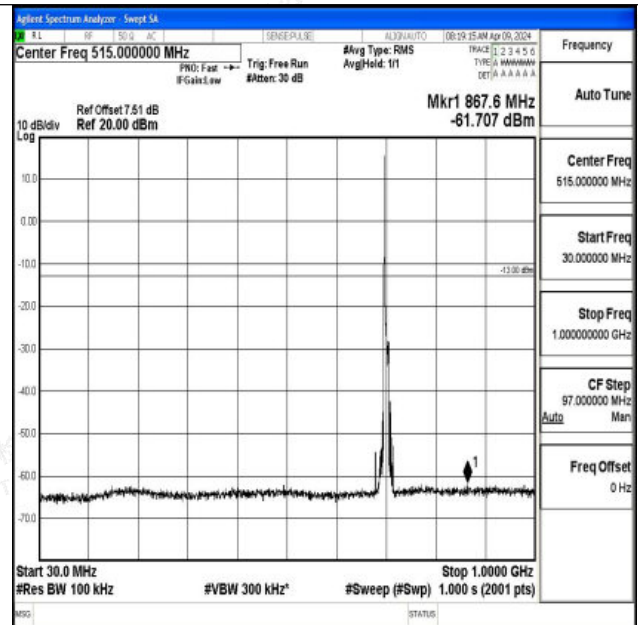
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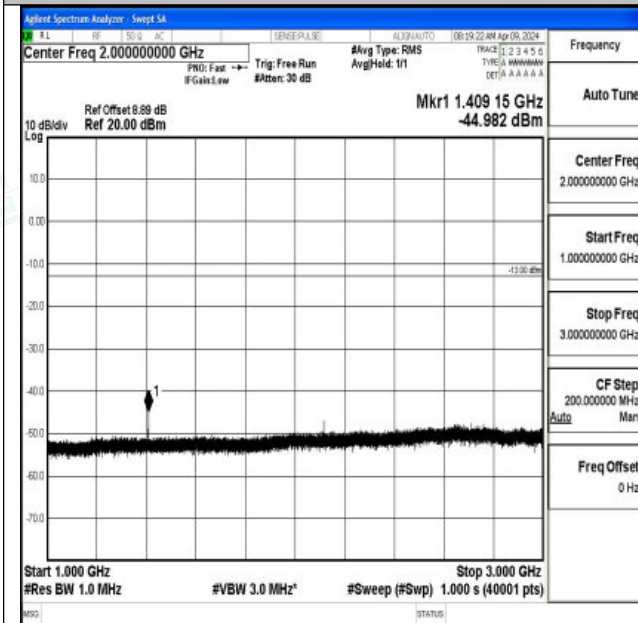
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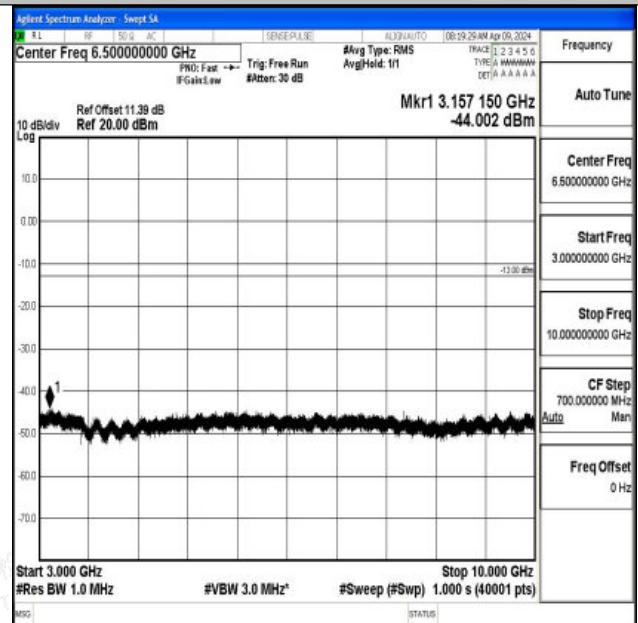
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0~3000



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0~10000

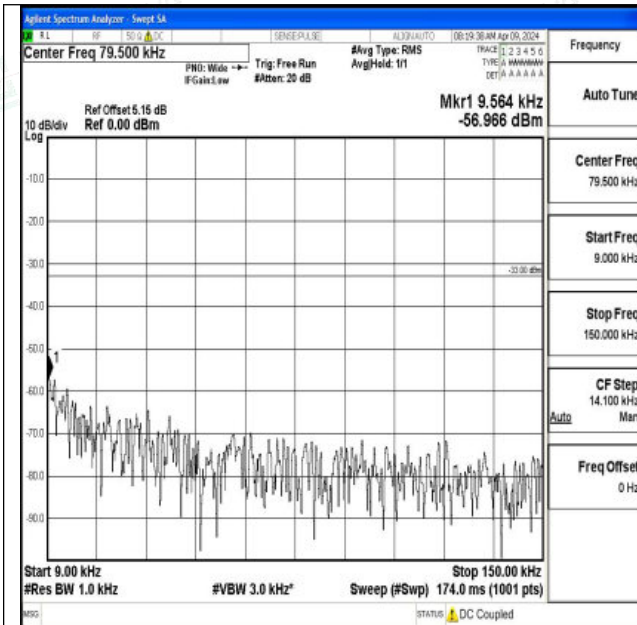


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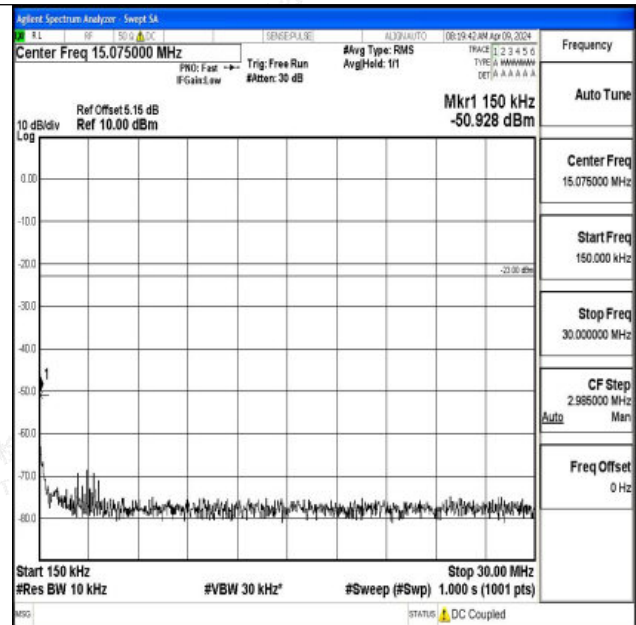
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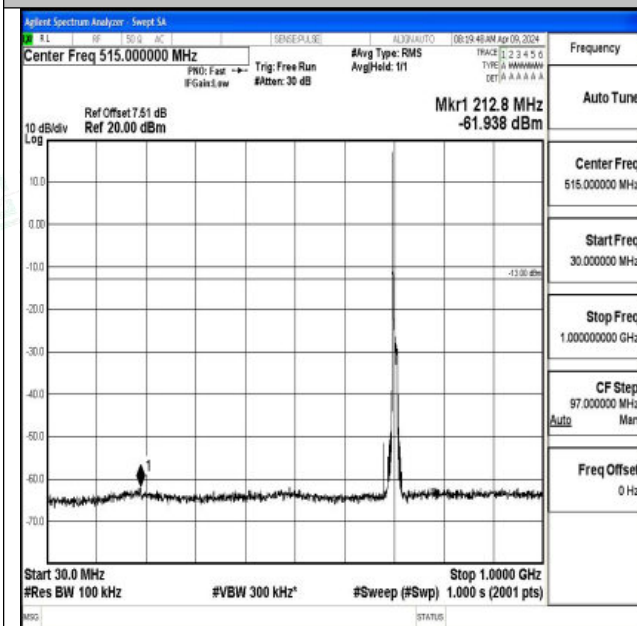
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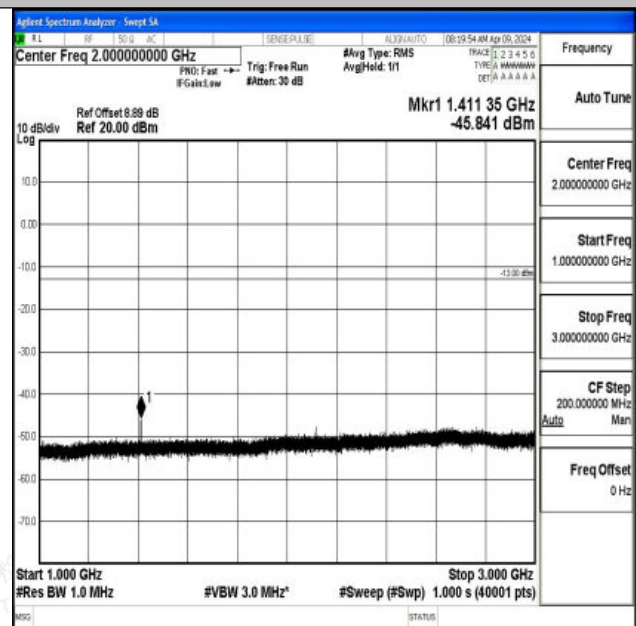
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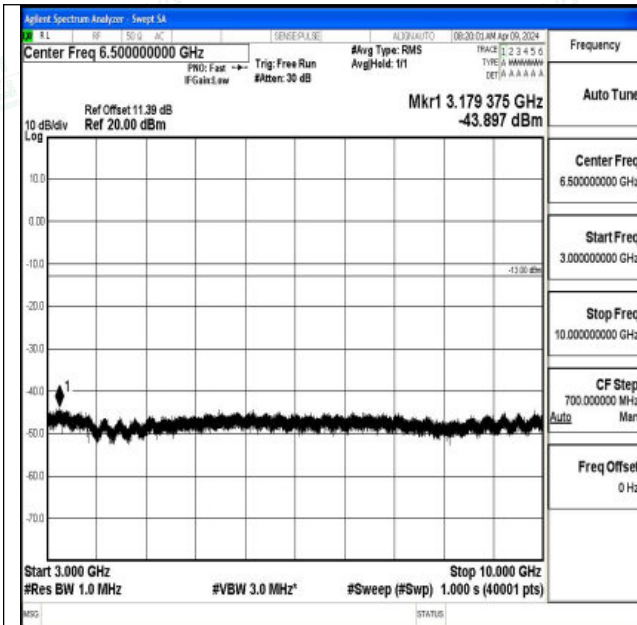


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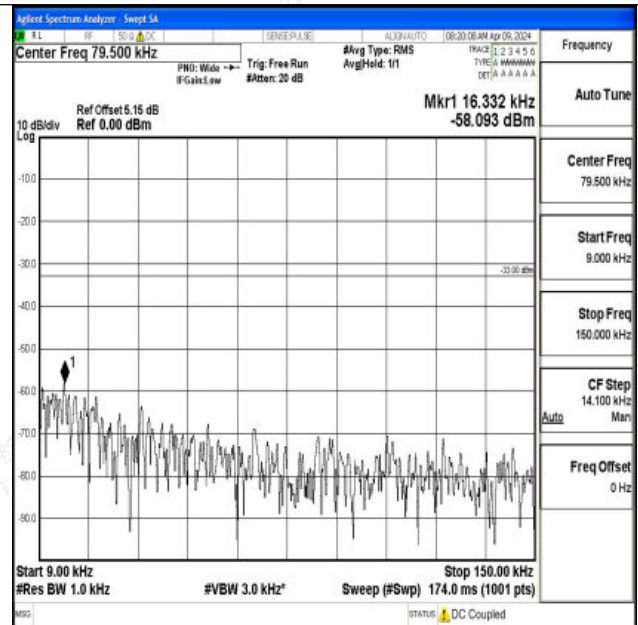


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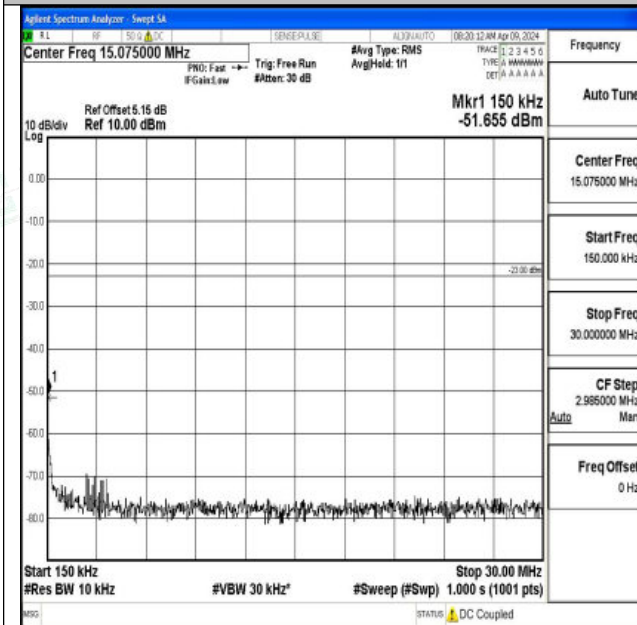




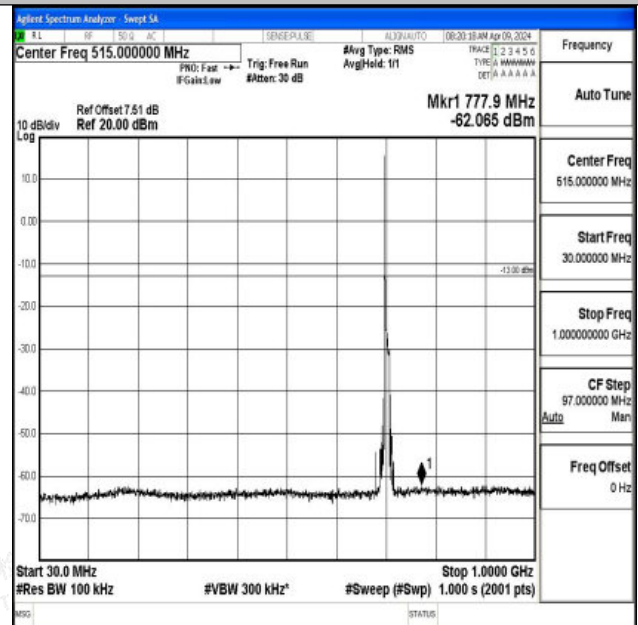
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0~10000



Band17_10MHz_16QAM_23790_1RB#0_0.009~0.15_0.009
~0.15



Band17_10MHz_16QAM_23790_1RB#0_0.15~30_0.15~3
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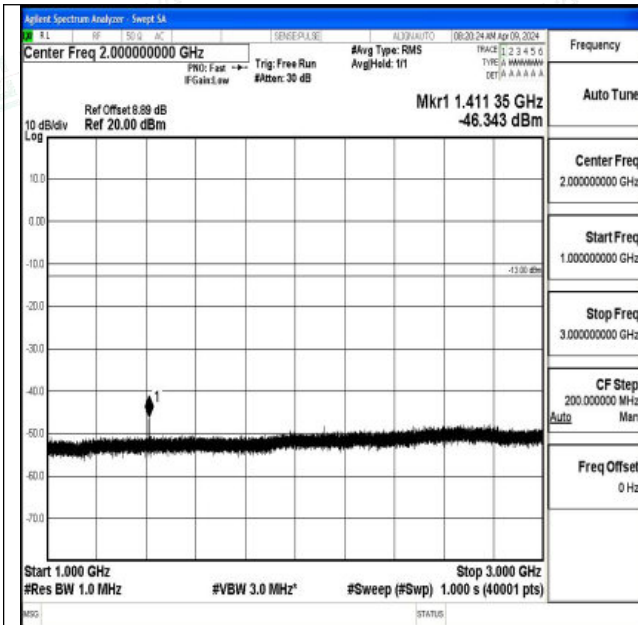


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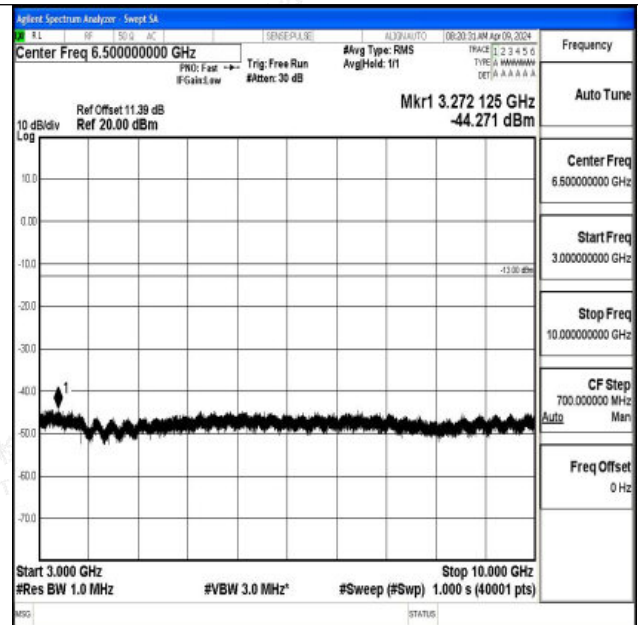
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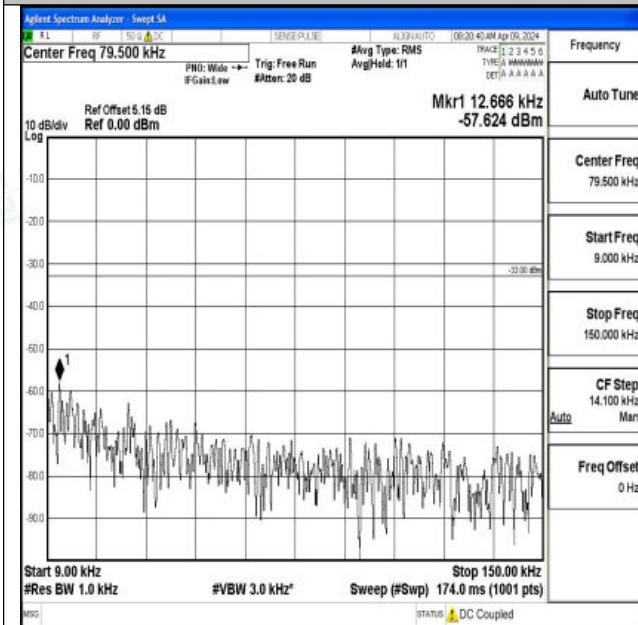
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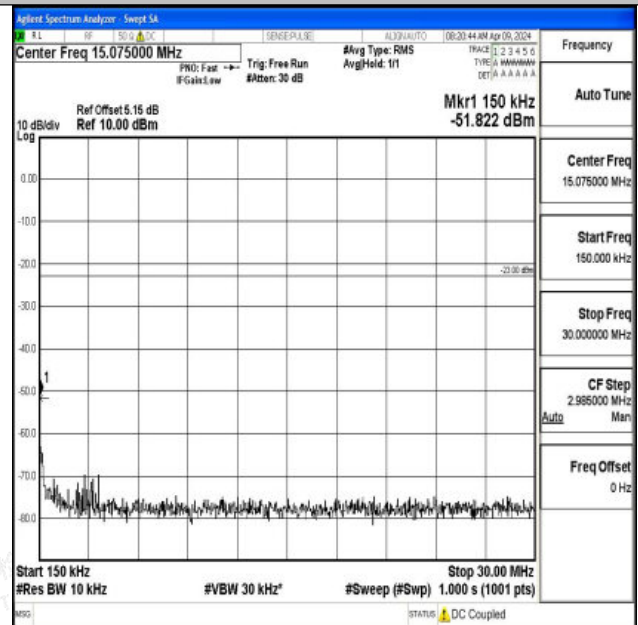
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Band17_10MHz_16QAM_23790_1RB#0_3000~10000_300
0~10000

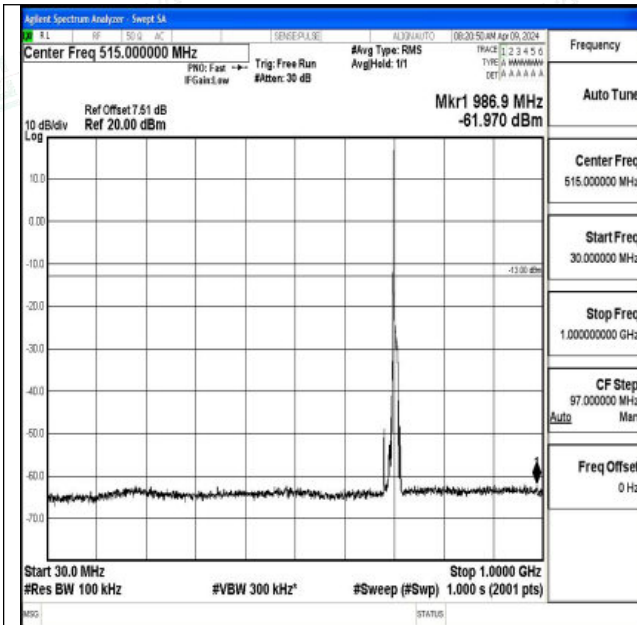


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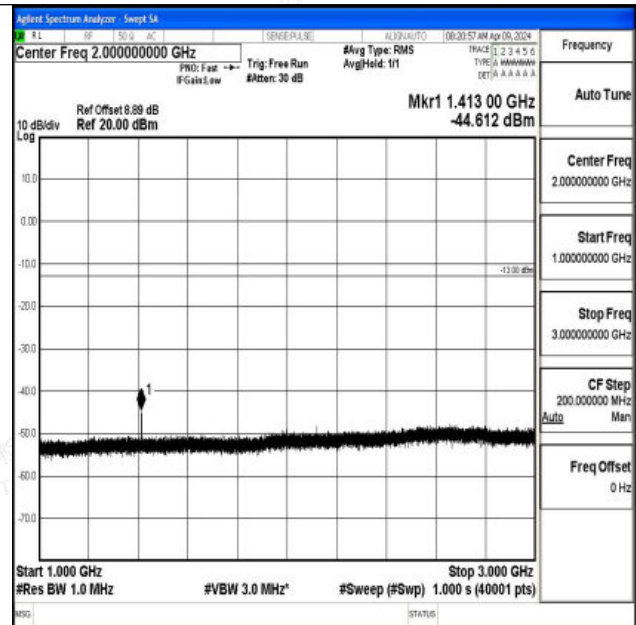
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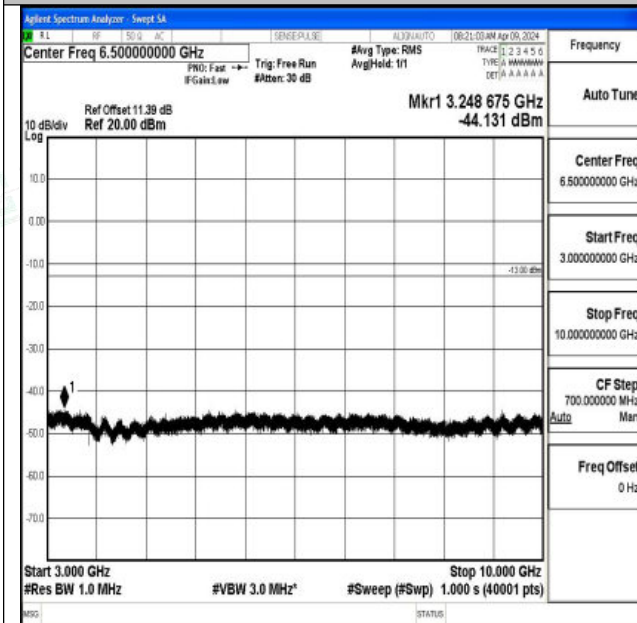
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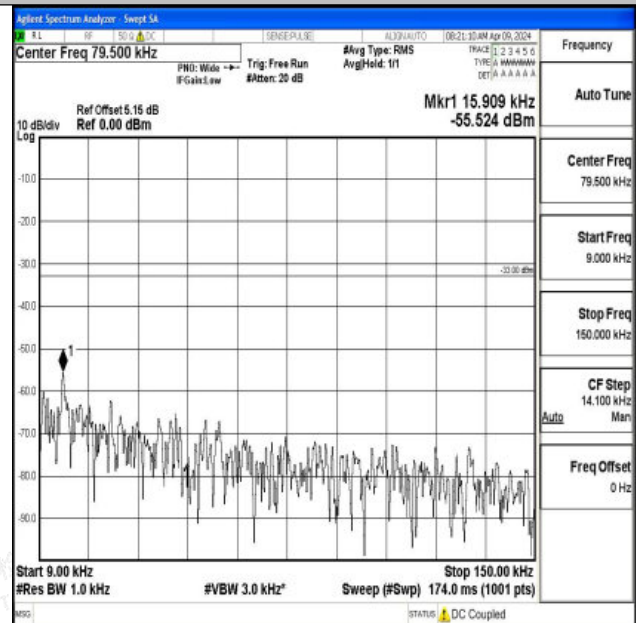
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3000



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0~10000



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~0.15

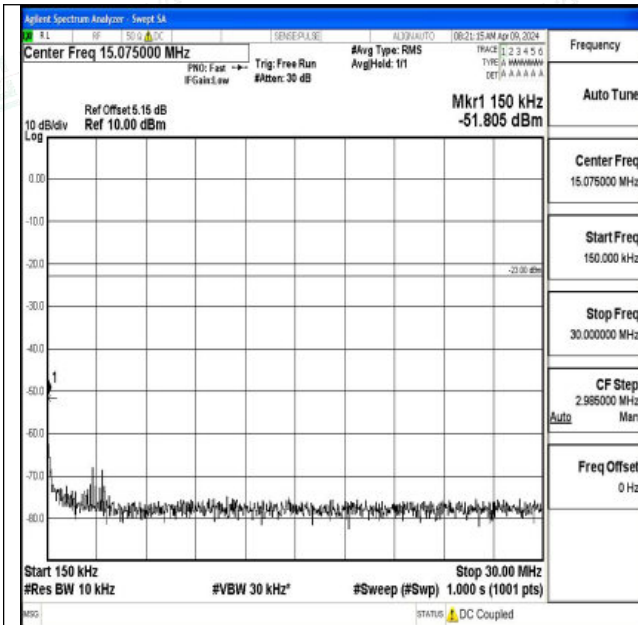


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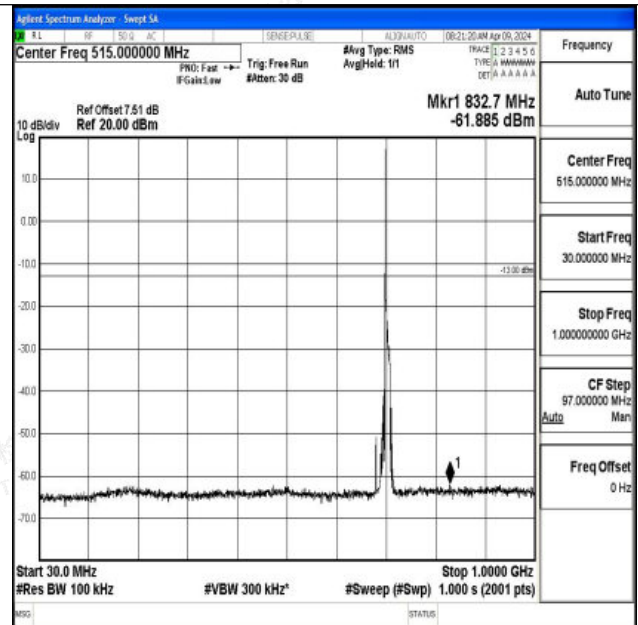
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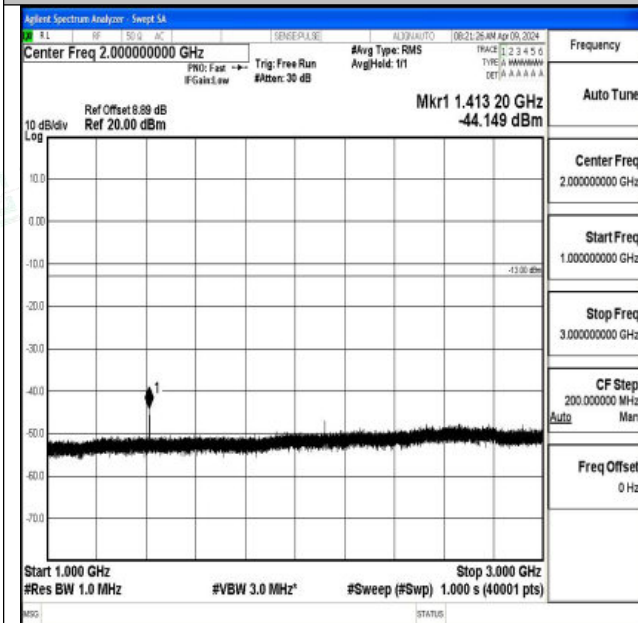
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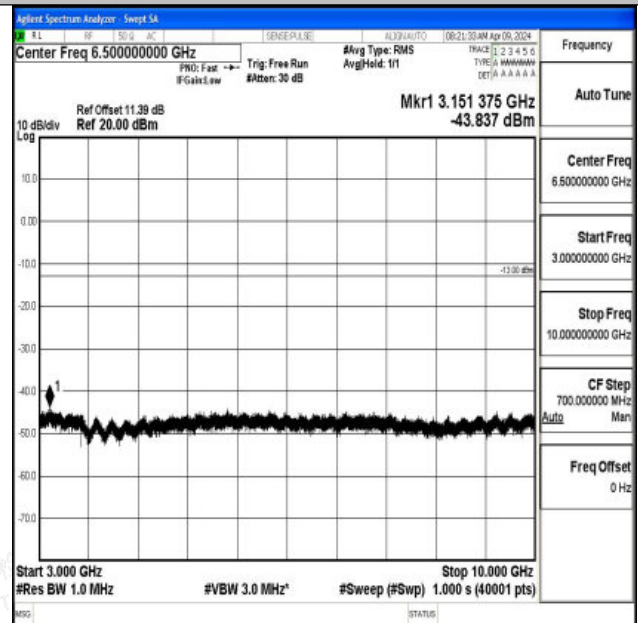
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Band17_10MHz_16QAM_23800_1RB#0_1000~3000_100

0~3000



Band17_10MHz_16QAM_23800_1RB#0_3000~10000_300

0~10000



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