Appendix L: Test Data for E-UTRA Band 13

Product Name: Tablet

Test Model: HIP-T69

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jose Zhu
Supervised by:	Nick Peng

L.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.39	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.36	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.44	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.45	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.41	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.45	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.34	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.57	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.34	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.56	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.20	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.51	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.19	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.65	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.11	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.86	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.10	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.93	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.18	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.75	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.31	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.56	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.31	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.55	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.27	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.50	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.23	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.55	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.91	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.74	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.71	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.14	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.86	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.06	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.34	PASS

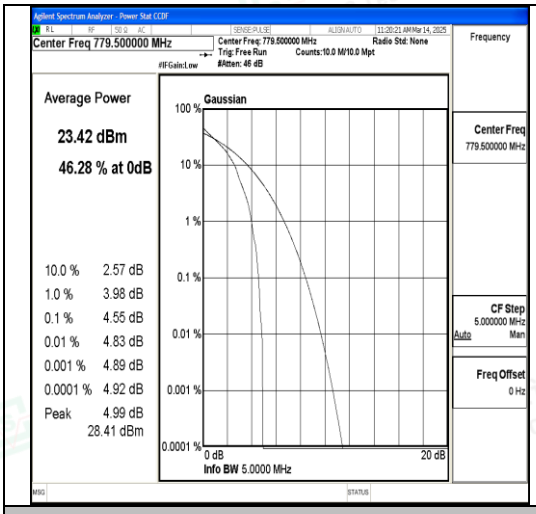
Band13	5MHz	16QAM	23255	12RB#0	22.42	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.25	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.58	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.04	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.41	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.21	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.36	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.48	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.92	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.53	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.84	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.27	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.54	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.84	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.99	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.84	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.99	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.58	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.85	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.71	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.95	PASS

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

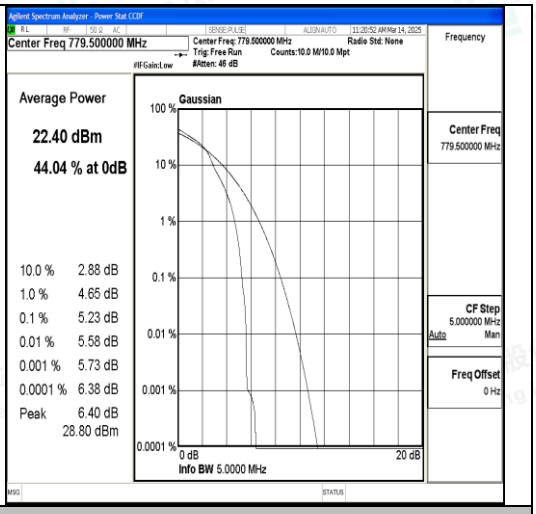
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.55	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.23	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.14	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.74	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.31	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.52	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.18	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.78	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.35	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.53	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.18	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.53	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.14	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.52	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.19	13	PASS

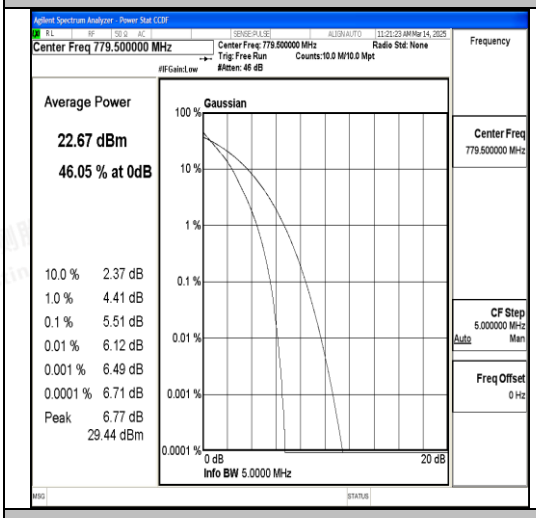
Test Graphs



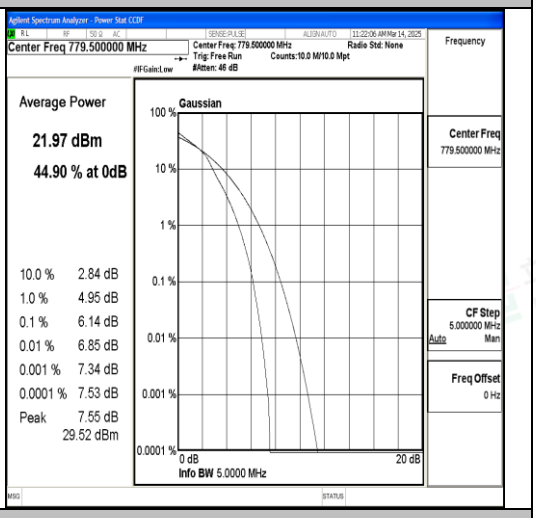
Band13-5MHz-QPSK-23205-1RB#0-PASS



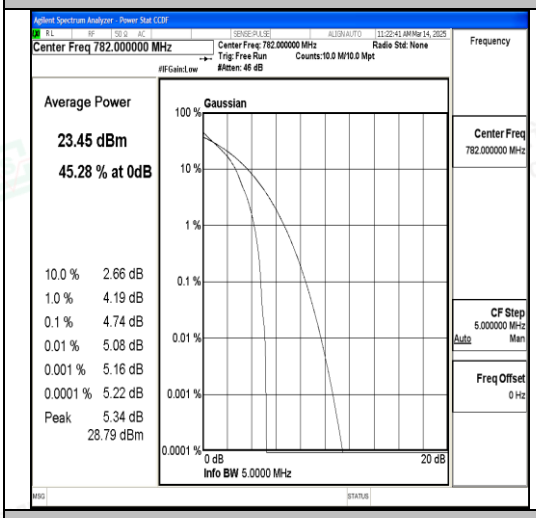
Band13-5MHz-16QAM-23205-1RB#0-PASS



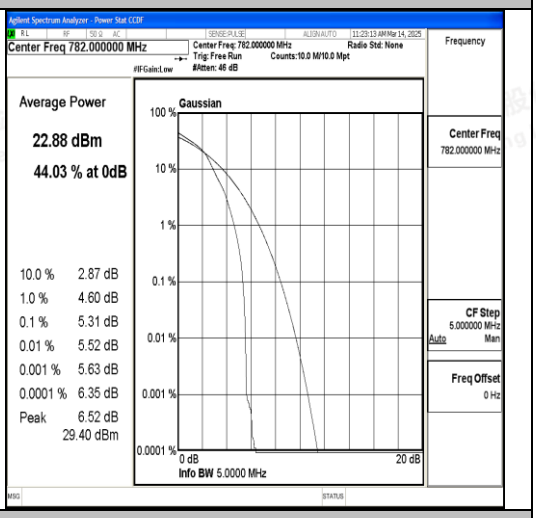
Band13-5MHz-QPSK-23205-25RB#0-PASS



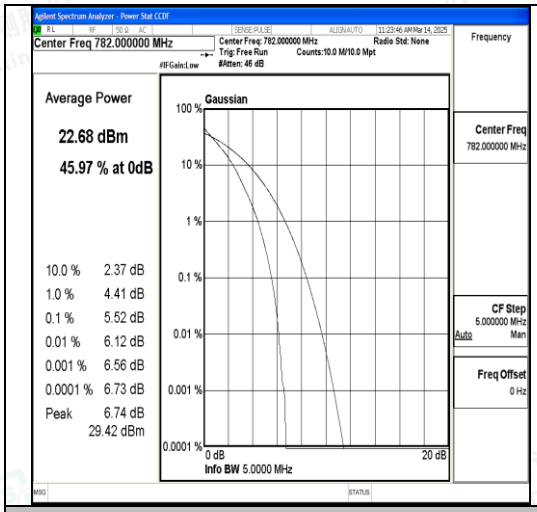
Band13-5MHz-16QAM-23205-25RB#0-PASS



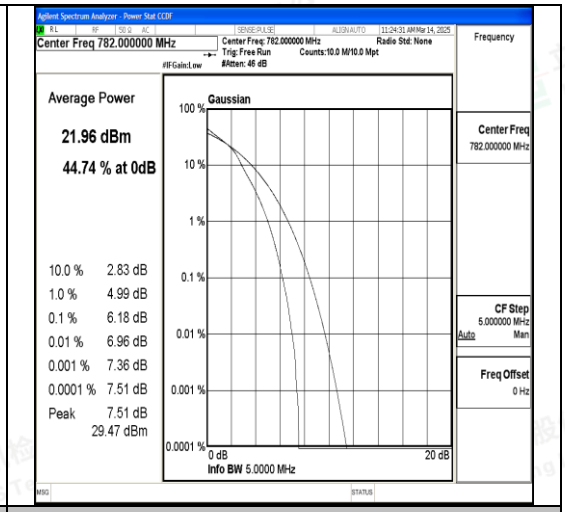
Band13-5MHz-QPSK-23230-1RB#0-PASS



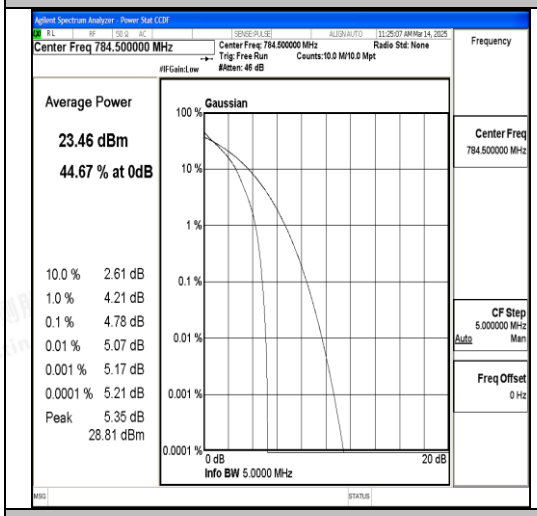
Band13-5MHz-16QAM-23230-1RB#0-PASS



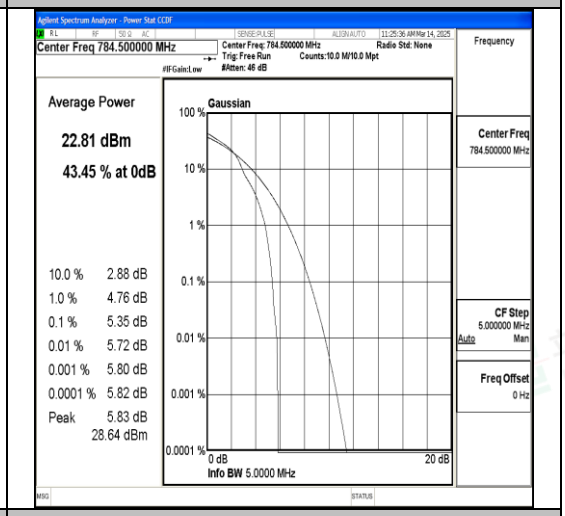
Band13-5MHz-QPSK-23230-25RB#0-PASS



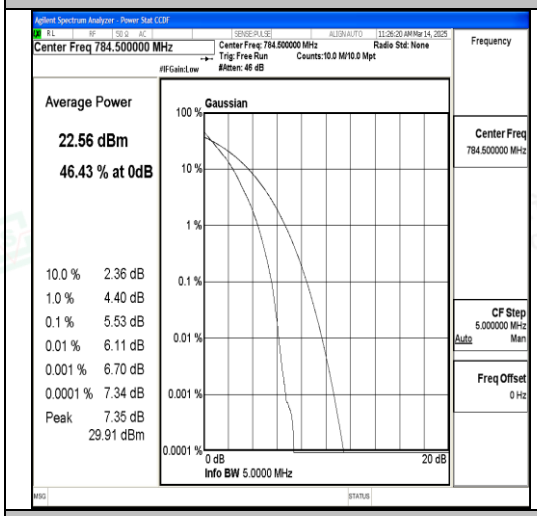
Band13-5MHz-16QAM-23230-25RB#0-PASS



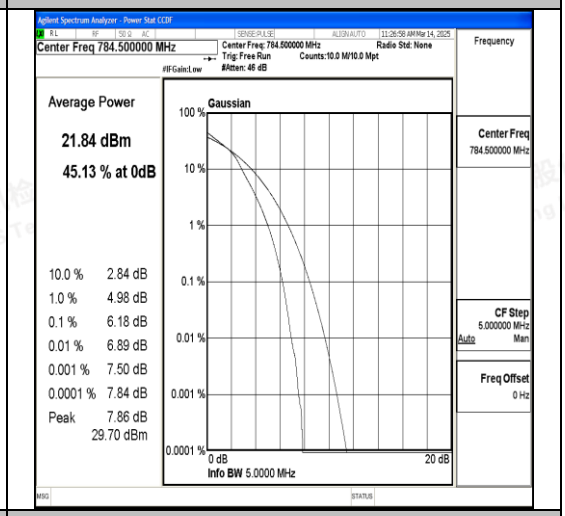
Band13-5MHz-QPSK-23255-1RB#0-PASS



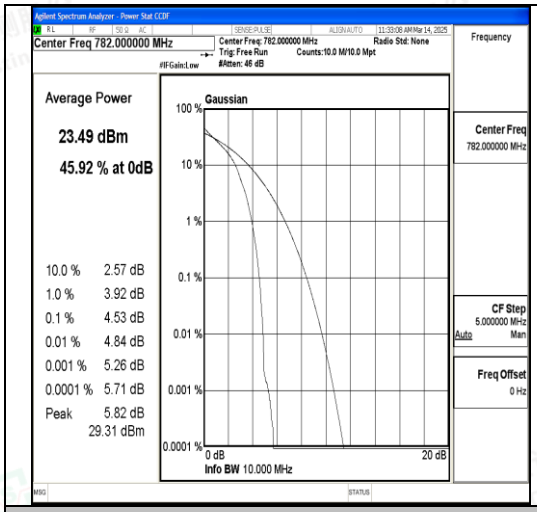
Band13-5MHz-16QAM-23255-1RB#0-PASS



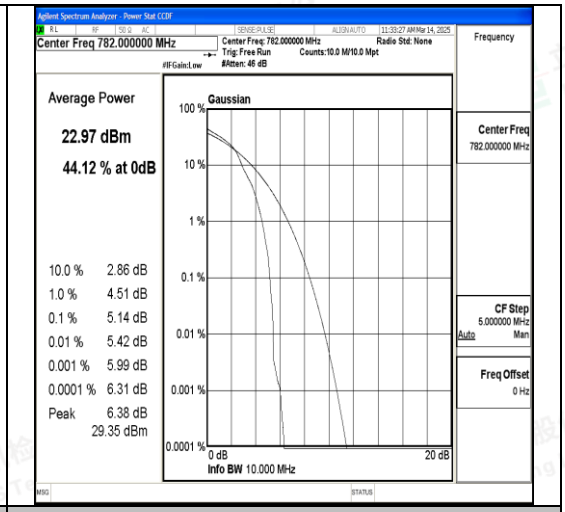
Band13-5MHz-QPSK-23255-25RB#0-PASS



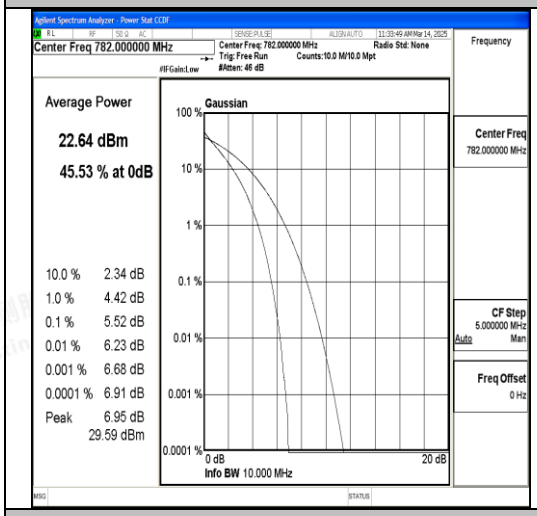
Band13-5MHz-16QAM-23255-25RB#0-PASS



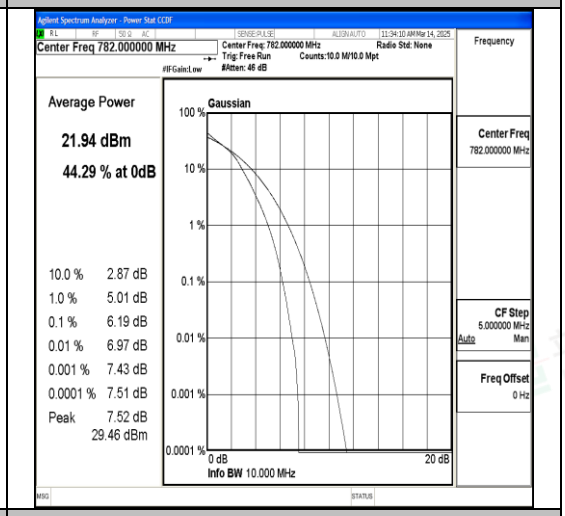
Band13-10MHz-QPSK-23230-1RB#0-PASS



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



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



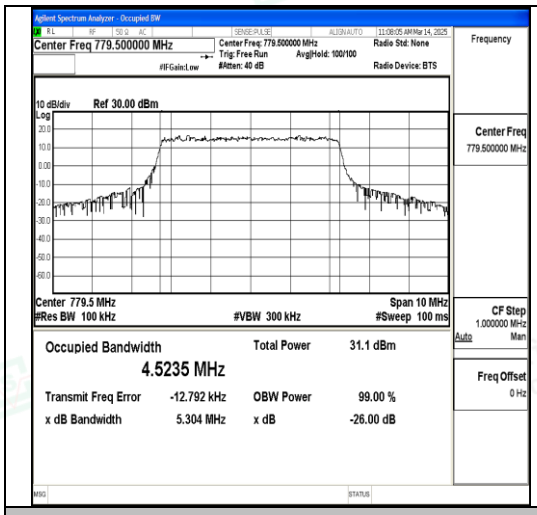
Band13-10MHz-16QAM-23230-50RB#0-PASS

L.3 26dB Bandwidth and Occupied Bandwidth

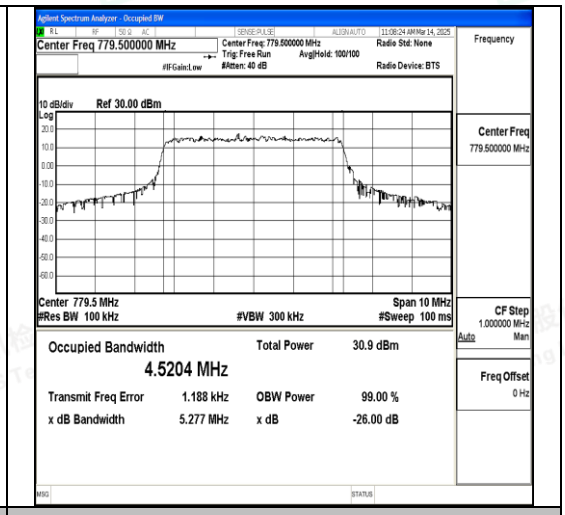
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5235	5.304	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5204	5.277	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5230	5.506	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5339	5.424	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5188	5.225	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5254	5.433	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0053	10.08	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9773	9.914	PASS

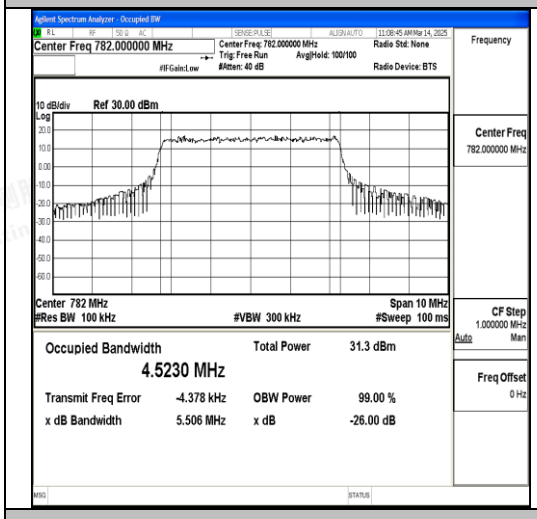
Test Graphs



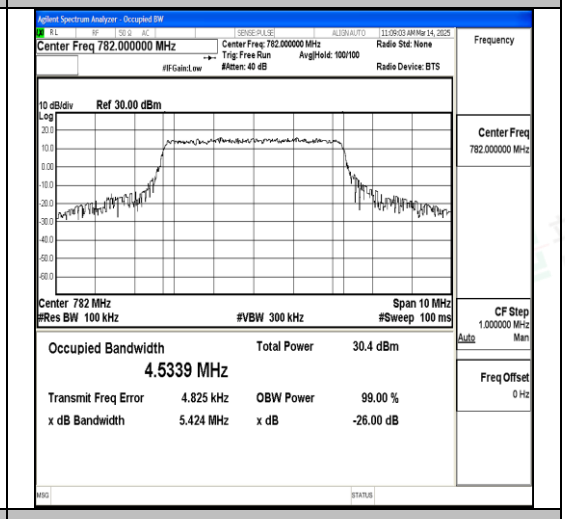
Band13-5MHz-QPSK-23205-25RB#0-PASS



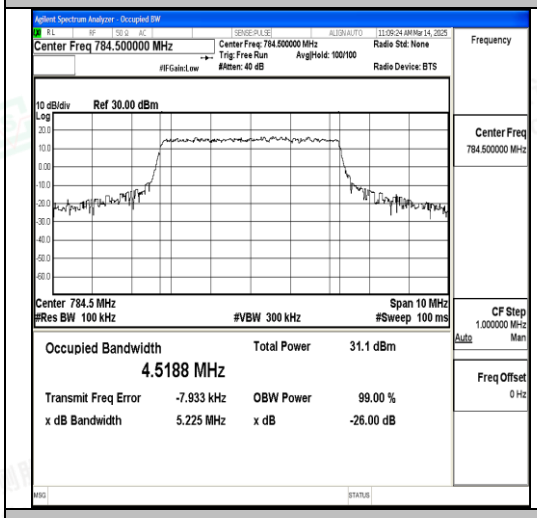
Band13-5MHz-16QAM-23205-25RB#0-PASS



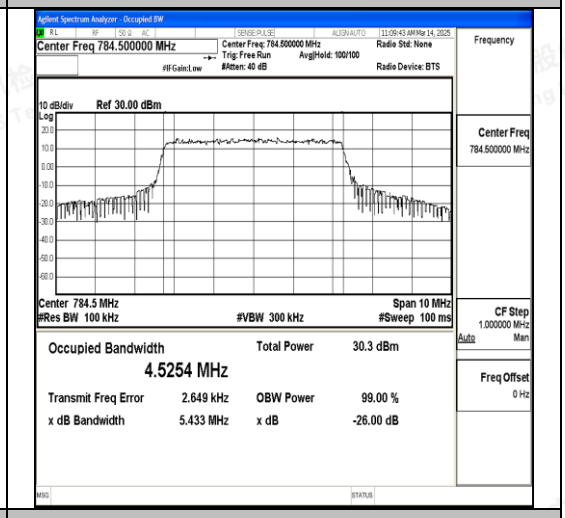
Band13-5MHz-QPSK-23230-25RB#0-PASS



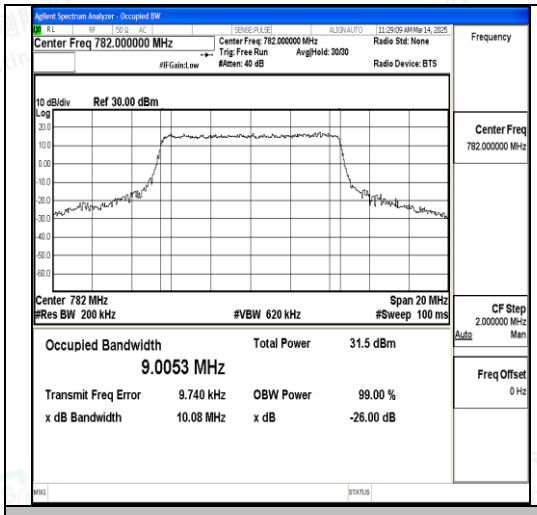
Band13-5MHz-16QAM-23230-25RB#0-PASS



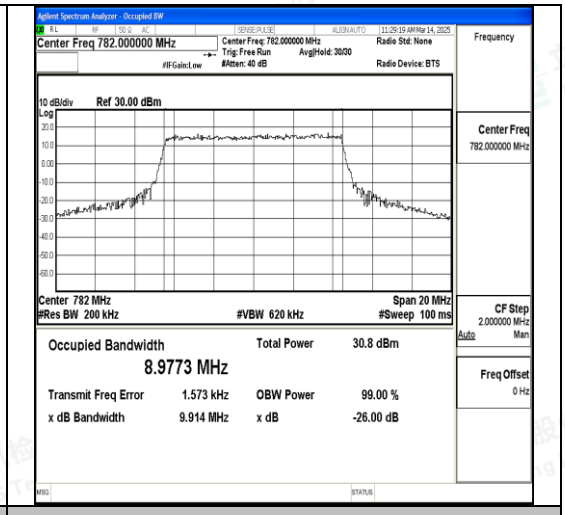
Band13-5MHz-QPSK-23255-25RB#0-PASS



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



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



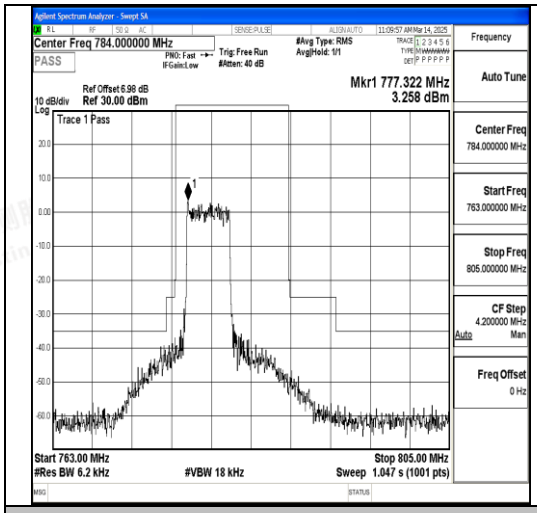
Band13-10MHz-16QAM-23230-50RB#0-PASS

L.4 Band Edge

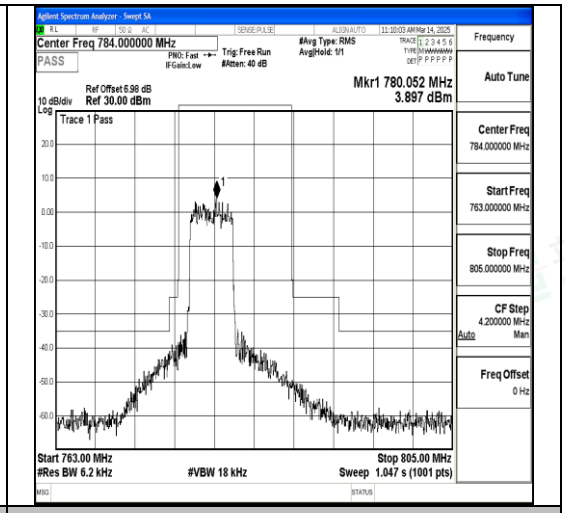
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-39.20	PASS
Band13	5MHz	16QAM	23205	25RB#0	-41.80	PASS
Band13	5MHz	QPSK	23255	25RB#0	-37.99	PASS
Band13	5MHz	16QAM	23255	25RB#0	-42.13	PASS
Band13	10MHz	QPSK	23230	50RB#0	-42.15	PASS
Band13	10MHz	16QAM	23230	50RB#0	-42.76	PASS

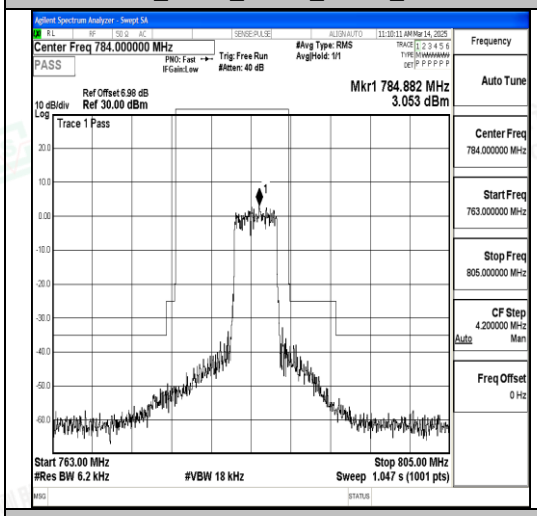
Test Graphs



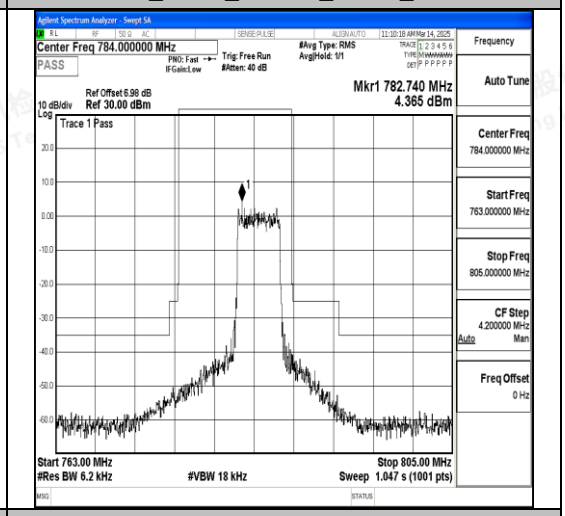
Band13_5MHz_QPSK_23205_25RB#0



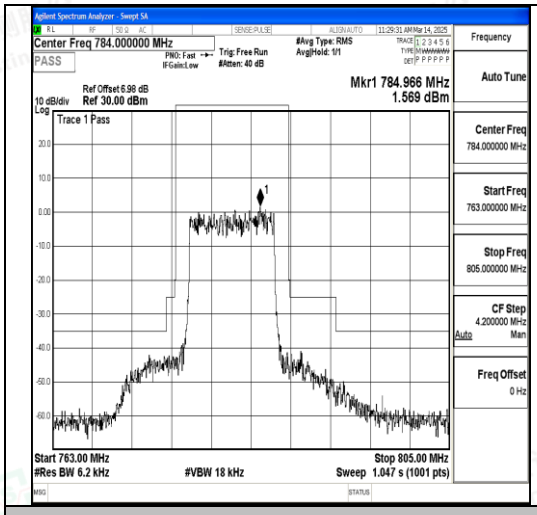
Band13_5MHz_16QAM_23205_25RB#0



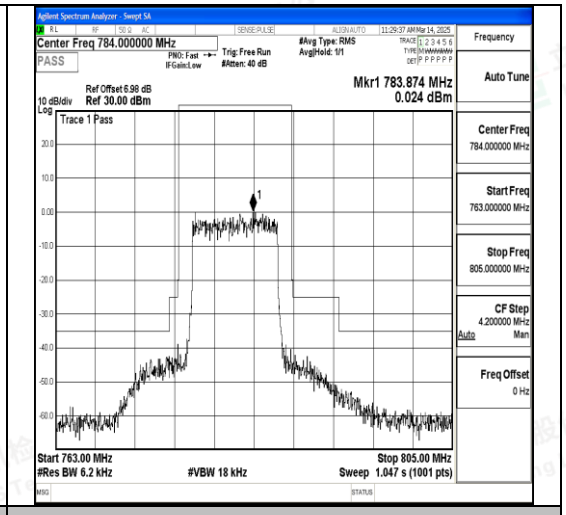
Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_50RB#0

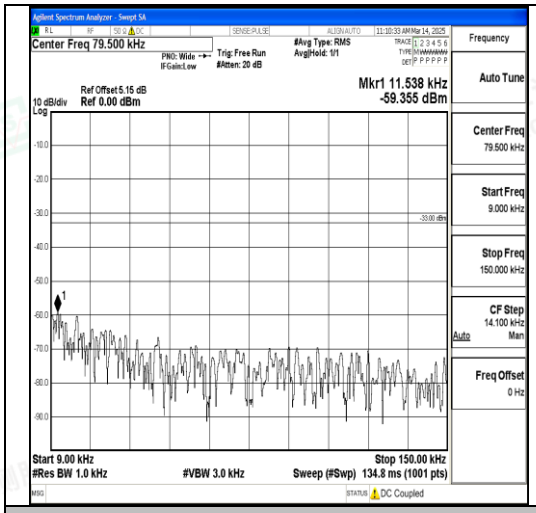
L.5 Conducted Spurious Emission

Test Result

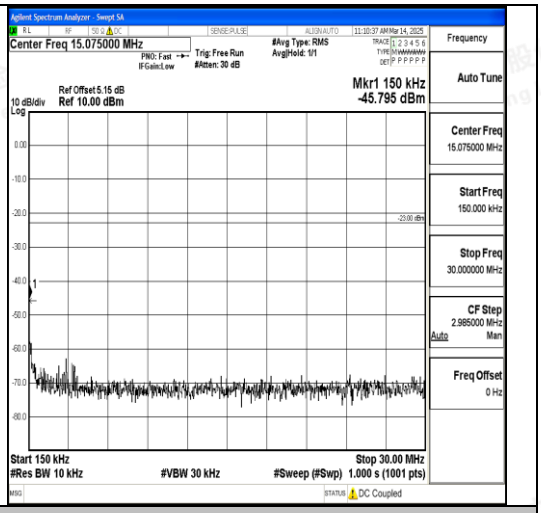
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-59.36	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-45.80	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-46.16	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-36.40	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.37	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-56.91	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-46.74	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-47.47	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-36.93	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.28	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.09	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-47.07	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-52.26	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-36.04	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.03	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-54.18	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-47.23	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-49.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-36.93	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.35	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-59.22	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-44.23	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-44.32	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-36.01	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.95	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-55.80	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-47.92	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-46.81	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-36.48	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.31	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-54.78	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-43.88	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-51.97	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-36.67	PASS

Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-35.17	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-58.15	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-48.20	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.10	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-35.67	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.36	PASS

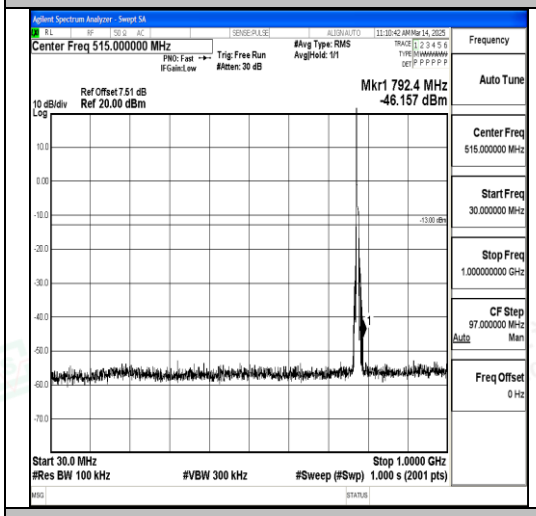
Test Graphs



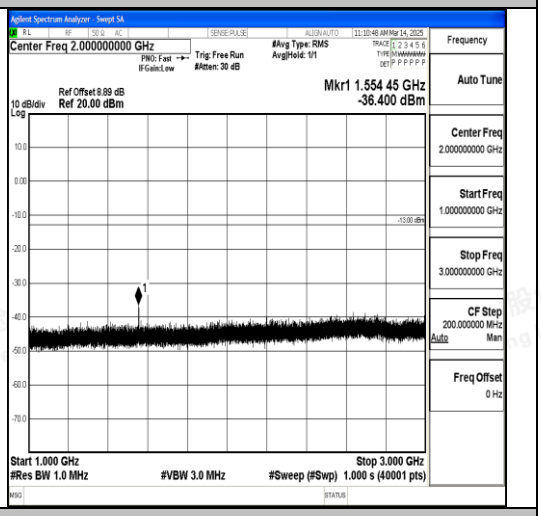
Band13_5MHz_QPSK_23205_1RB#0_0.009~0.15_0.009~0.15



Band13_5MHz_QPSK_23205_1RB#0_0.15~30_0.15~30



Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000



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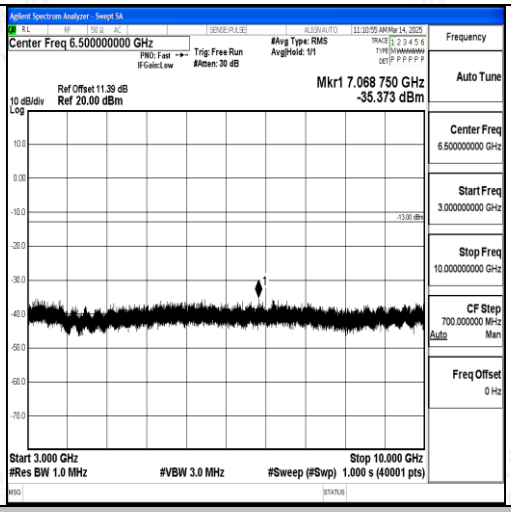

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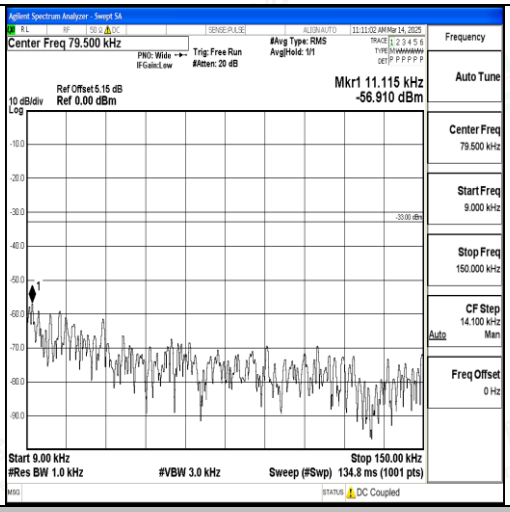

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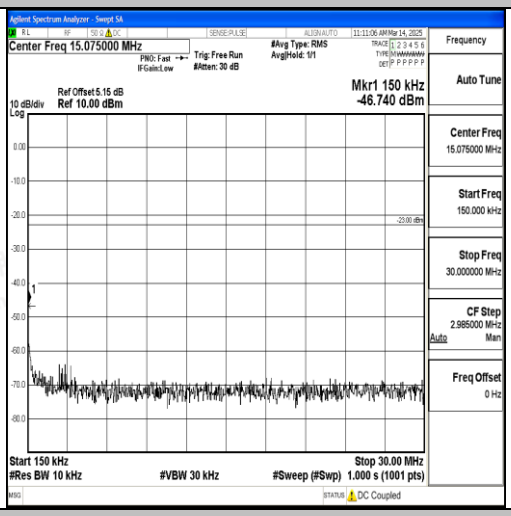

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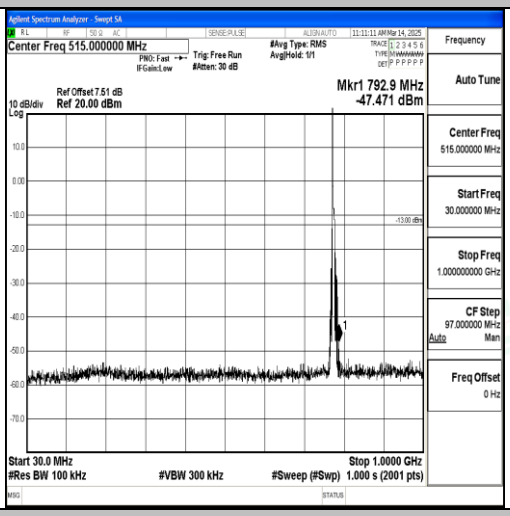

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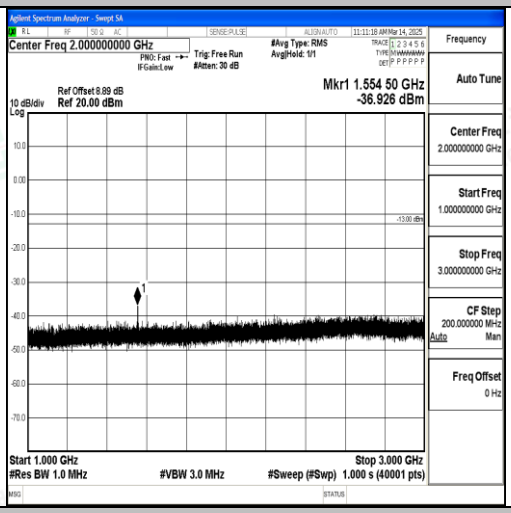

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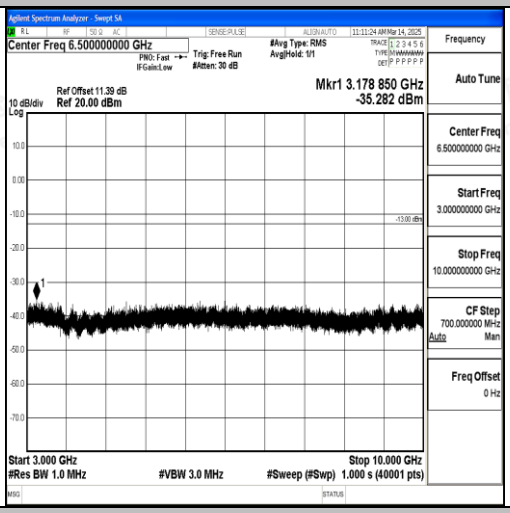

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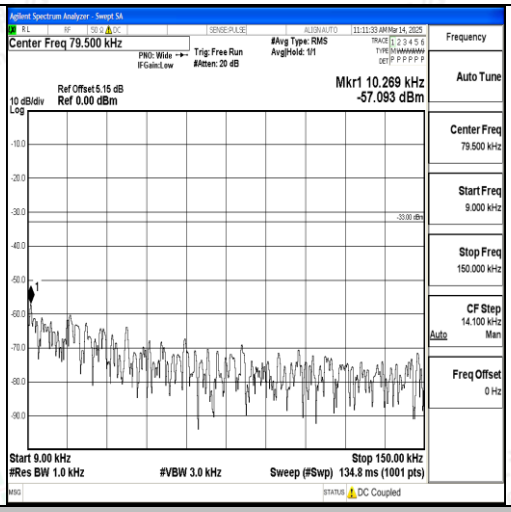

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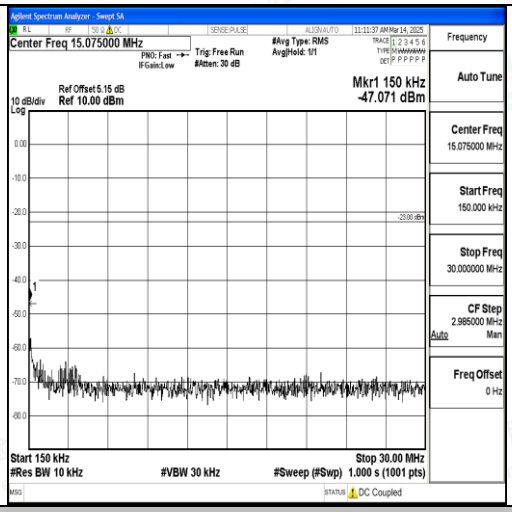

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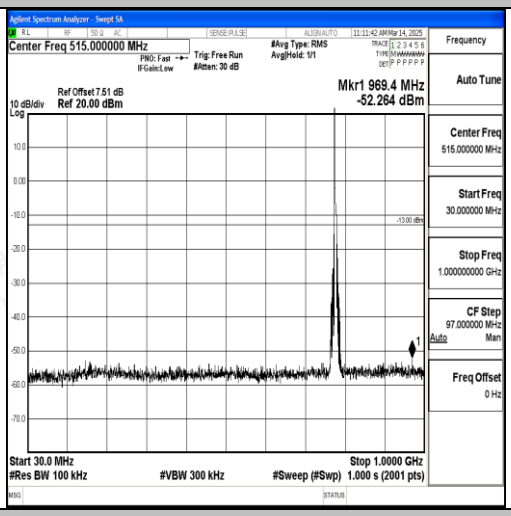

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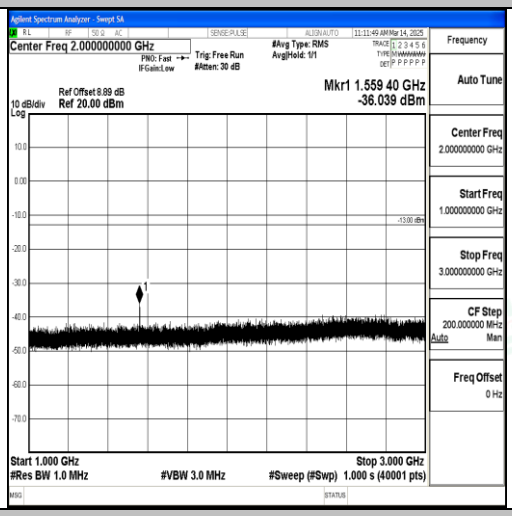

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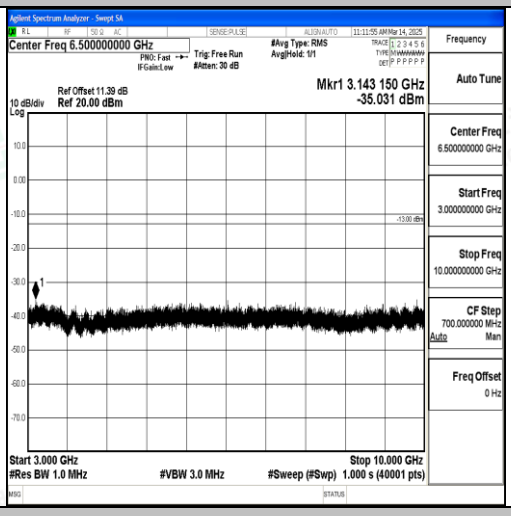

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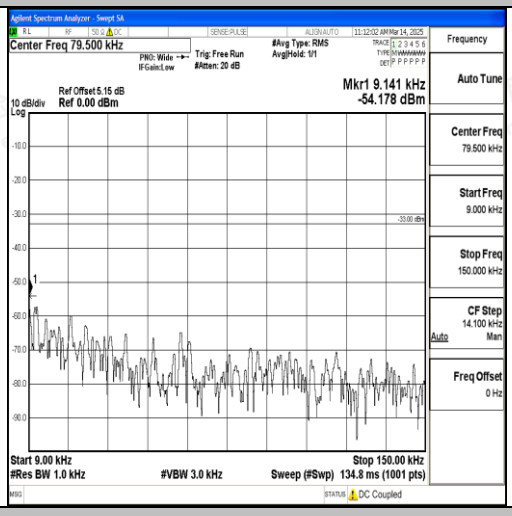

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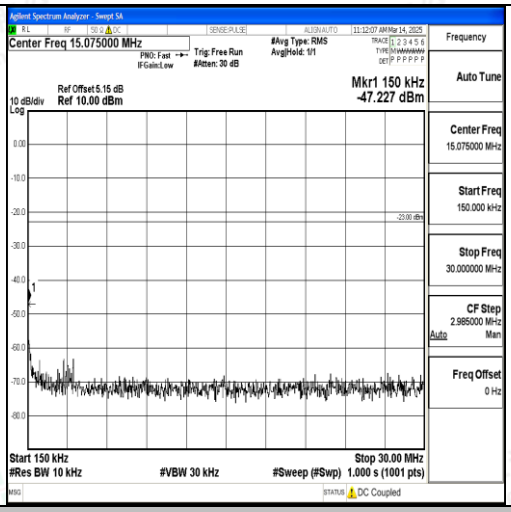

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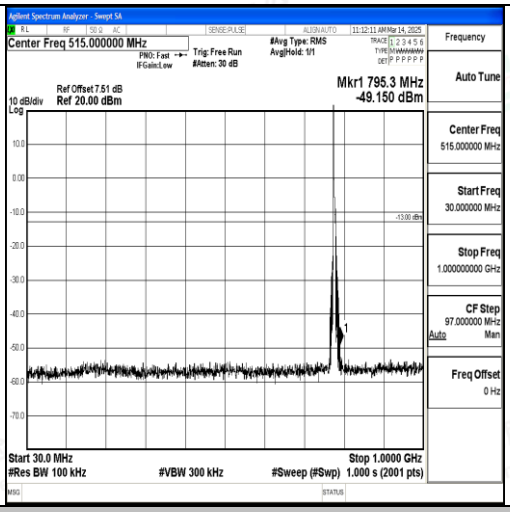

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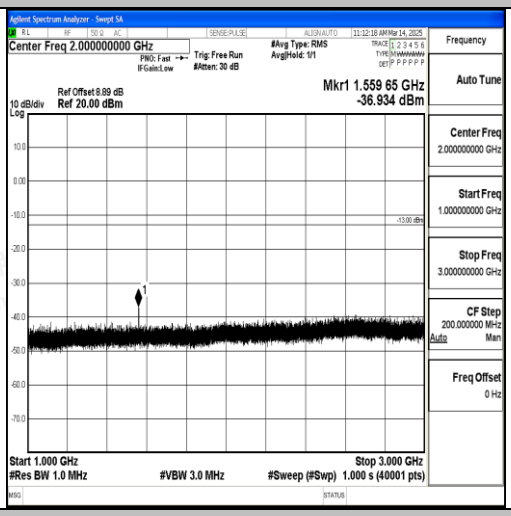

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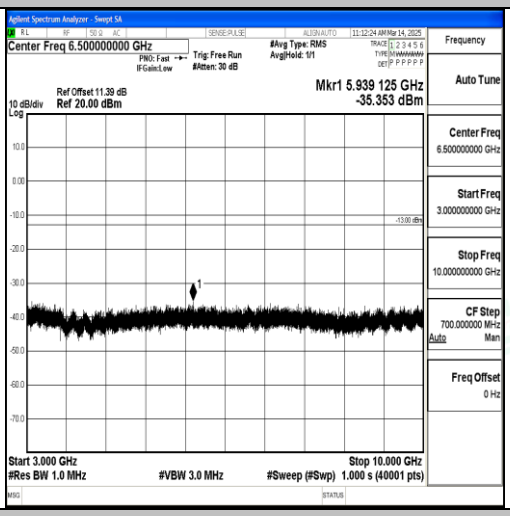
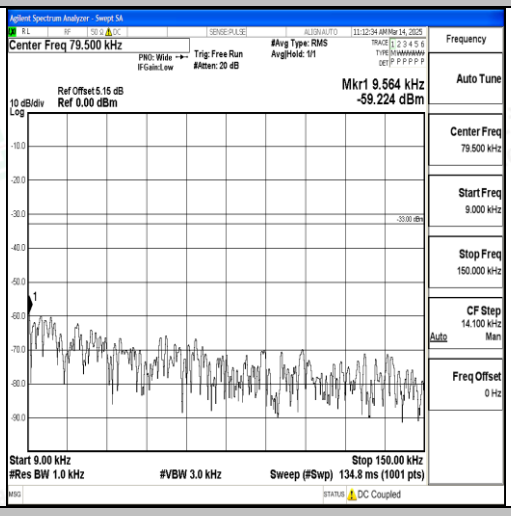


Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000



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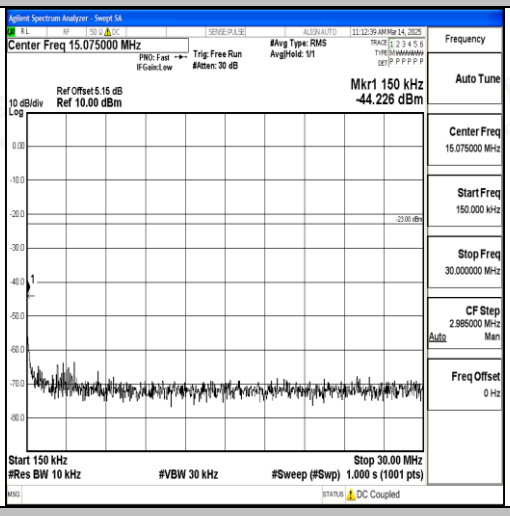

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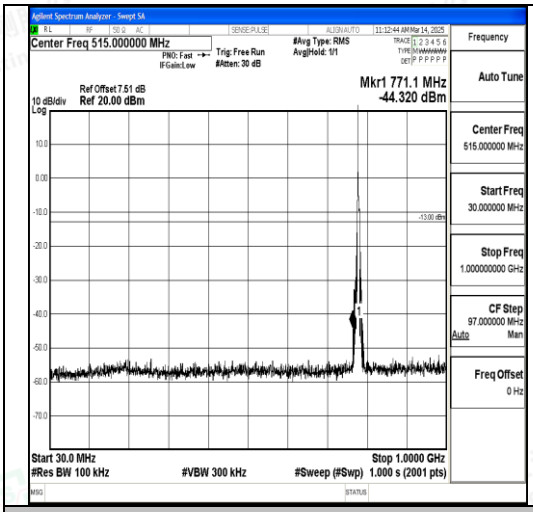

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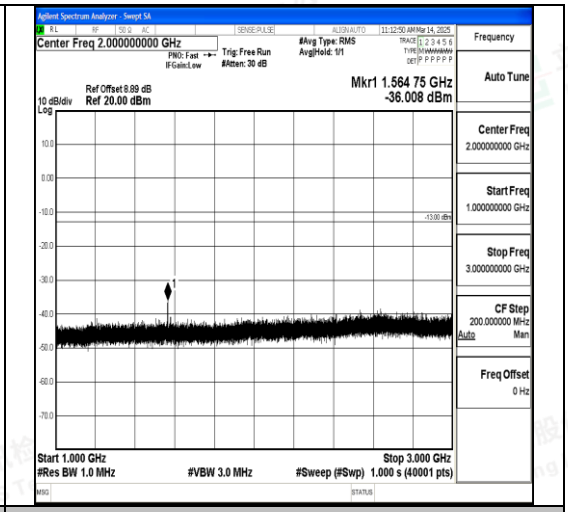

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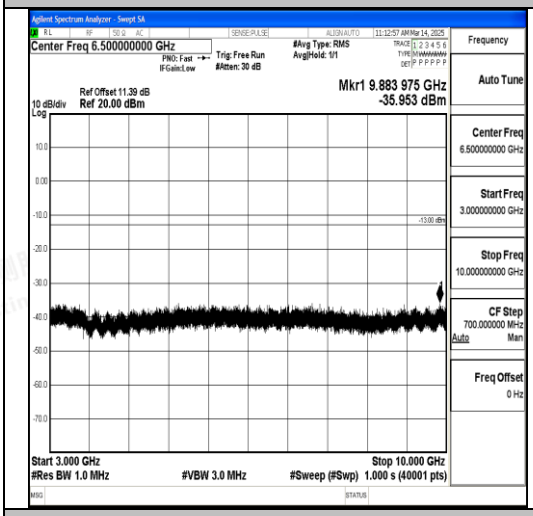

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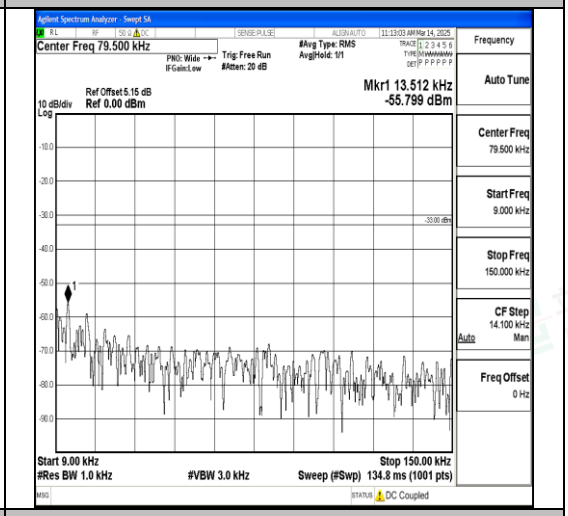

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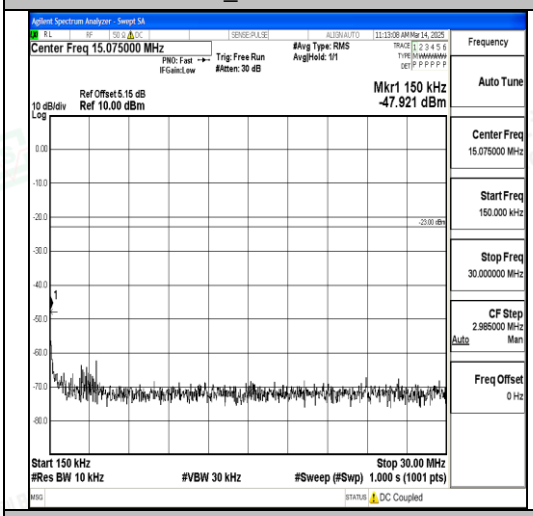

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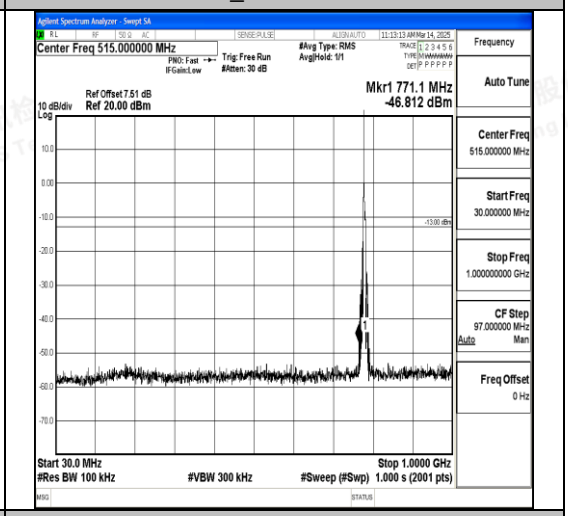

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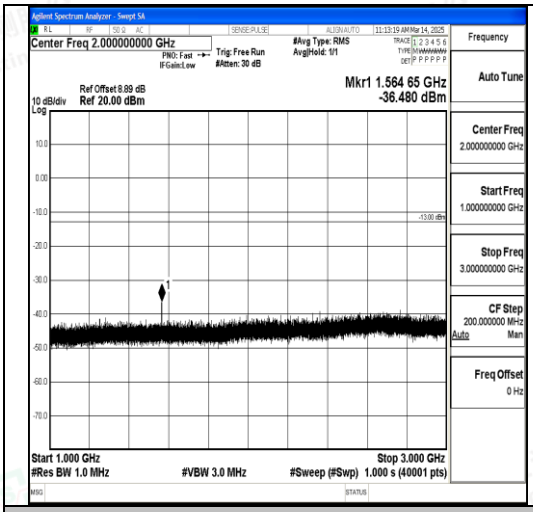

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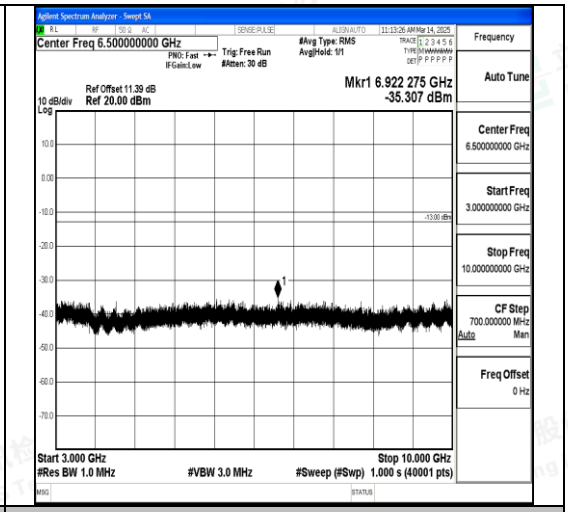

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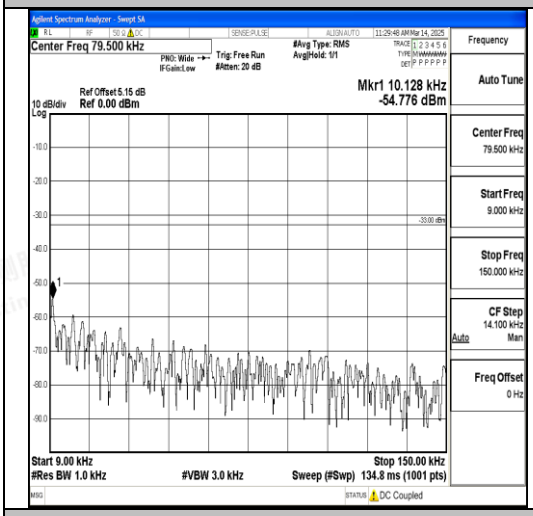

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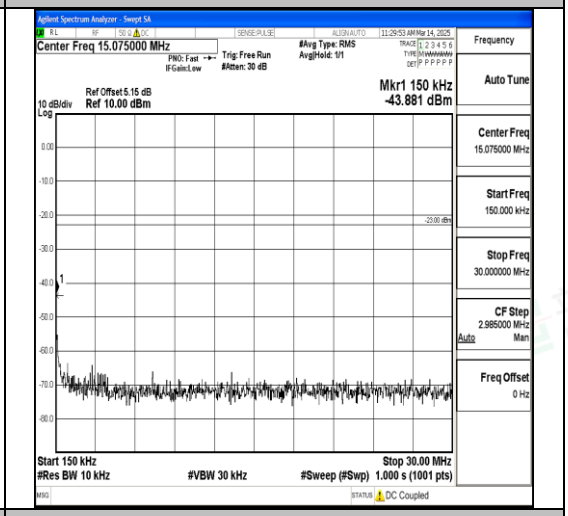

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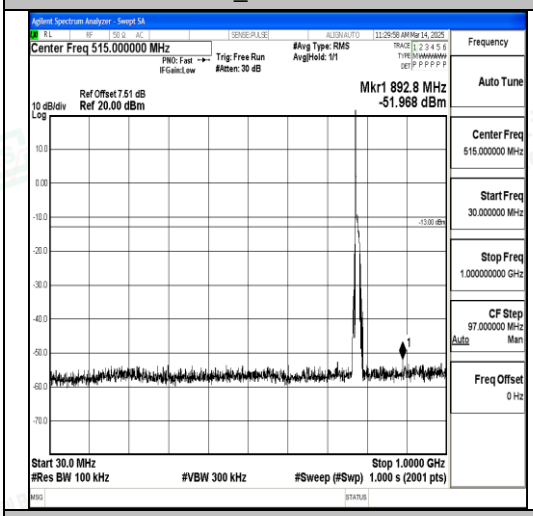

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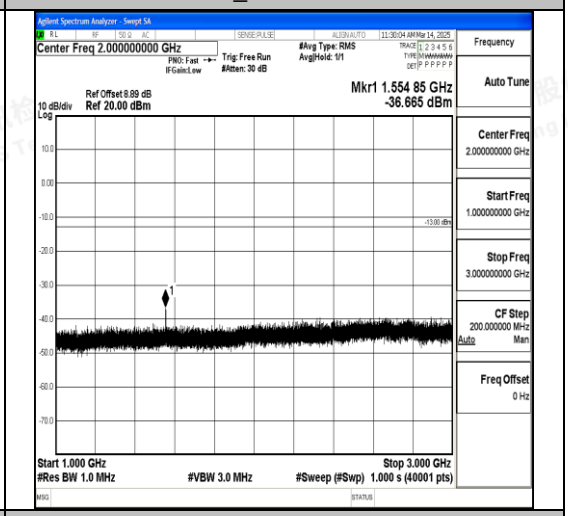

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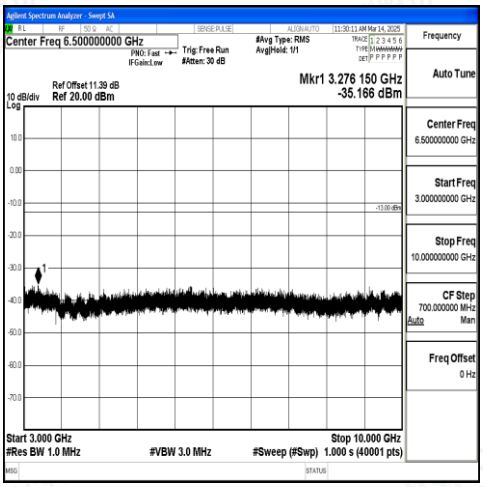

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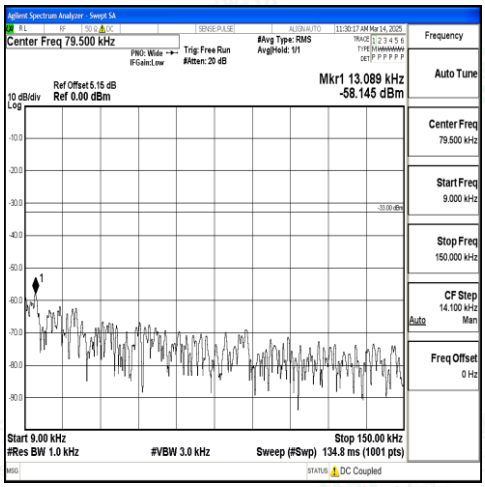

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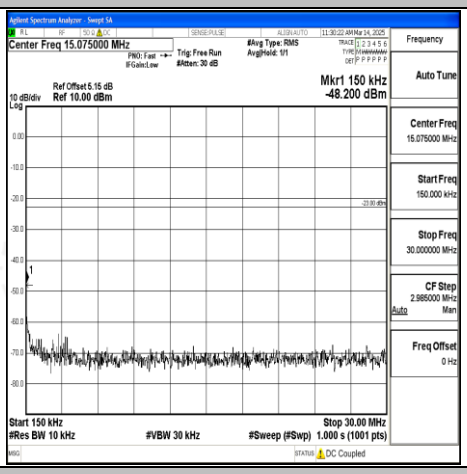

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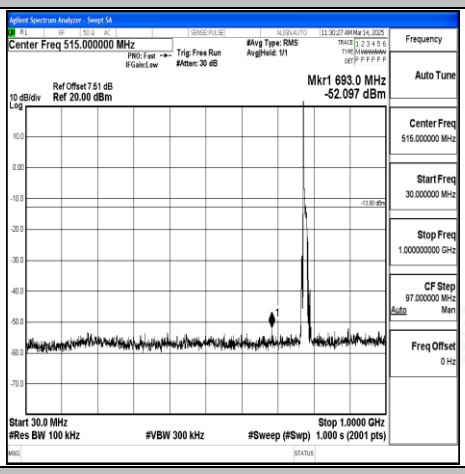

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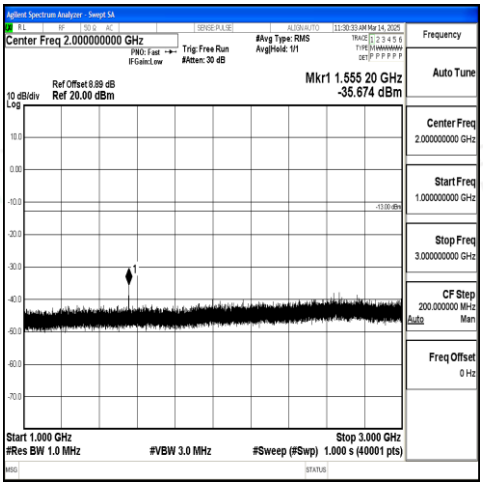
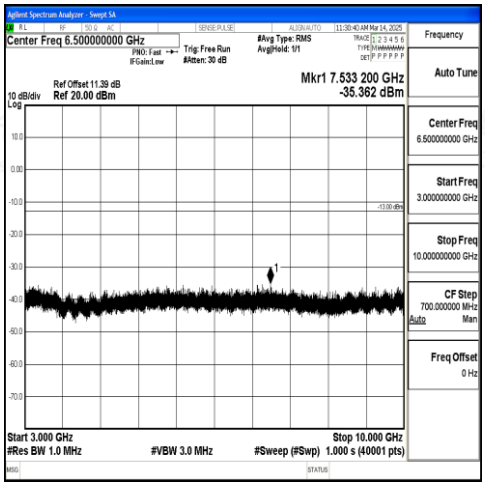


Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000