



Appendix L: Test Data for E-UTRA Band 14

Product Name: In-Vehicle Display Terminal

Test Model: VT-7A

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng





L.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.34	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.14	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.33	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.14	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.25	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.09	PASS
Band14	5MHz	QPSK	23305	12RB#0	22.24	PASS
Band14	5MHz	16QAM	23305	12RB#0	21.19	PASS
Band14	5MHz	QPSK	23305	12RB#6	22.15	PASS
Band14	5MHz	16QAM	23305	12RB#6	21.17	PASS
Band14	5MHz	QPSK	23305	12RB#13	22.30	PASS
Band14	5MHz	16QAM	23305	12RB#13	21.24	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.27	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.24	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.39	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.29	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.41	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.26	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.34	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.21	PASS
Band14	5MHz	QPSK	23330	12RB#0	22.21	PASS
Band14	5MHz	16QAM	23330	12RB#0	21.16	PASS
Band14	5MHz	QPSK	23330	12RB#6	22.21	PASS
Band14	5MHz	16QAM	23330	12RB#6	21.18	PASS
Band14	5MHz	QPSK	23330	12RB#13	22.27	PASS
Band14	5MHz	16QAM	23330	12RB#13	21.22	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.25	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.24	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.33	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.40	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.29	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.39	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.22	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.31	PASS
Band14	5MHz	QPSK	23355	12RB#0	22.33	PASS



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Band14	5MHz	16QAM	23355	12RB#0	21.30	PASS
Band14	5MHz	QPSK	23355	12RB#6	22.31	PASS
Band14	5MHz	16QAM	23355	12RB#6	21.34	PASS
Band14	5MHz	QPSK	23355	12RB#13	22.21	PASS
Band14	5MHz	16QAM	23355	12RB#13	21.17	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.29	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.24	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.47	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.46	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.14	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.20	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.35	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.33	PASS
Band14	10MHz	QPSK	23330	25RB#0	22.22	PASS
Band14	10MHz	16QAM	23330	25RB#0	21.17	PASS
Band14	10MHz	QPSK	23330	25RB#12	22.24	PASS
Band14	10MHz	16QAM	23330	25RB#12	21.17	PASS
Band14	10MHz	QPSK	23330	25RB#25	22.18	PASS
Band14	10MHz	16QAM	23330	25RB#25	21.17	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.21	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.18	PASS





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

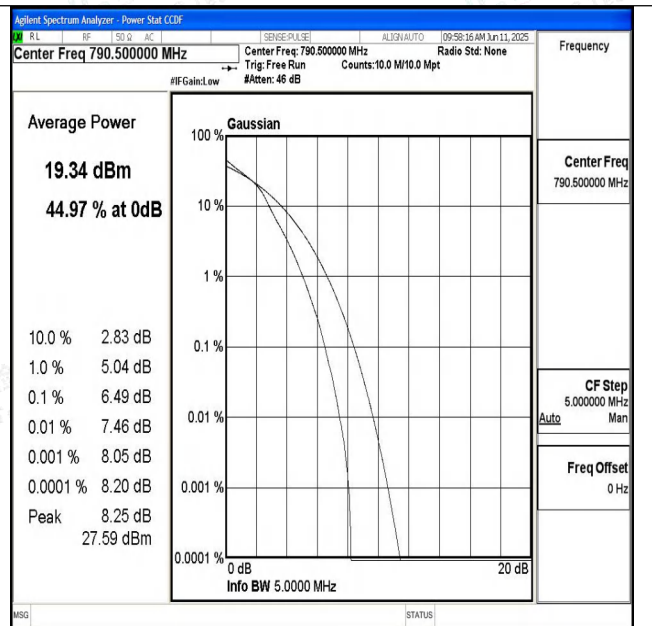
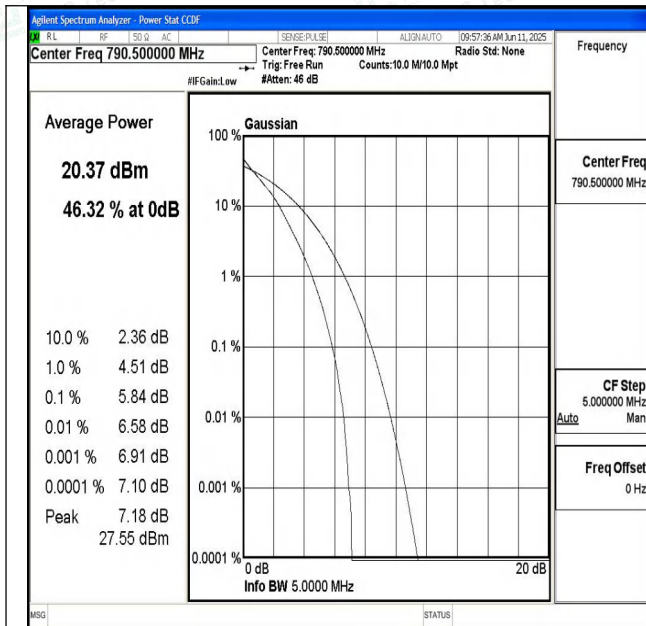
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.84	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.49	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.88	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.54	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.91	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.59	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.78	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.50	13	PASS



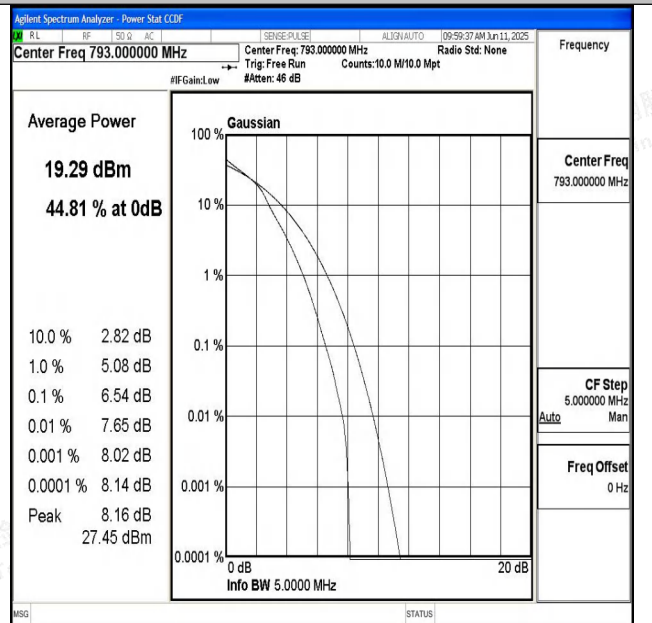
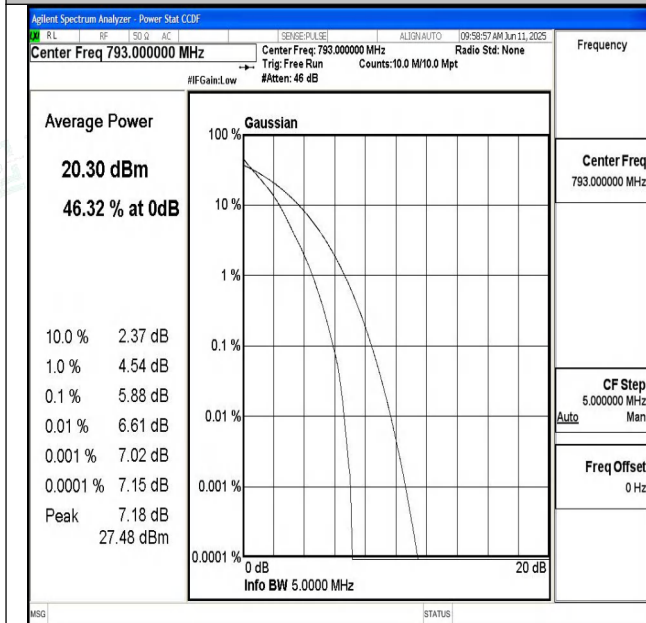


Test Graphs



Band14-5MHz-QPSK-23305-25RB#0-PASS

Band14-5MHz-16QAM-23305-25RB#0-PASS



Band14-5MHz-QPSK-23330-25RB#0-PASS

Band14-5MHz-16QAM-23330-25RB#0-PASS

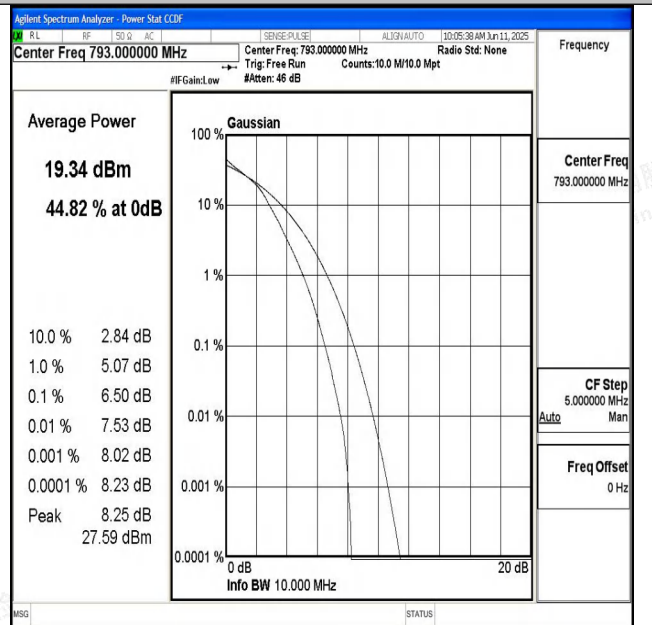
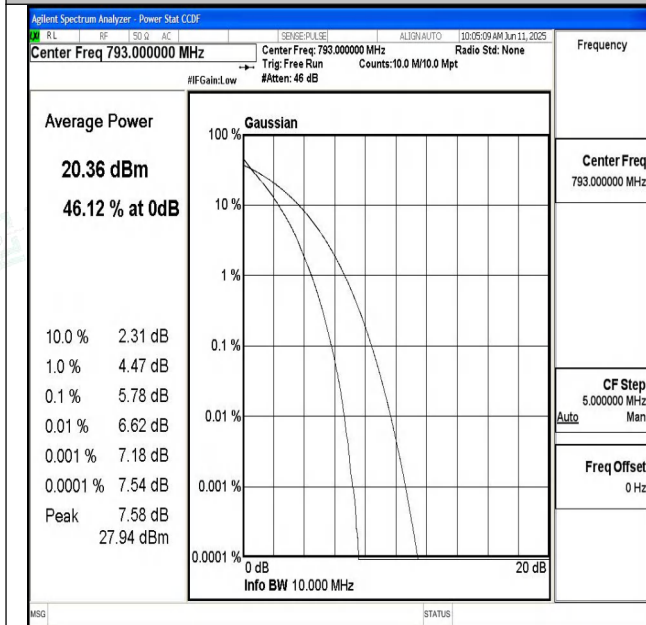
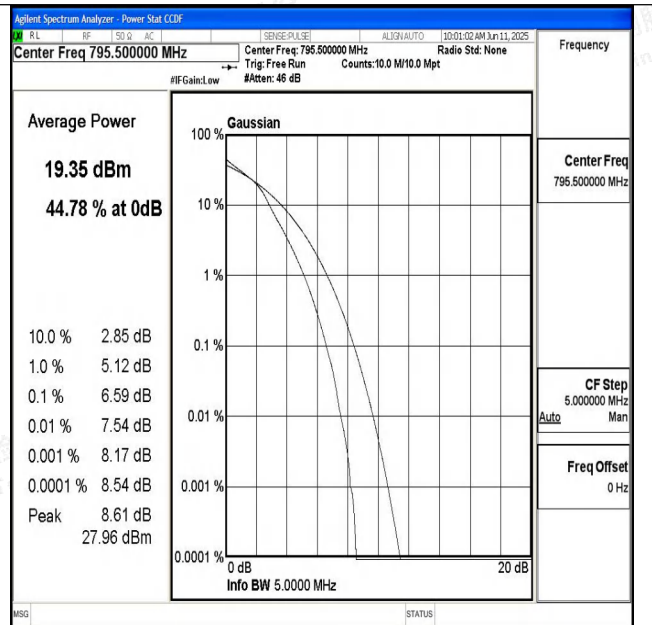
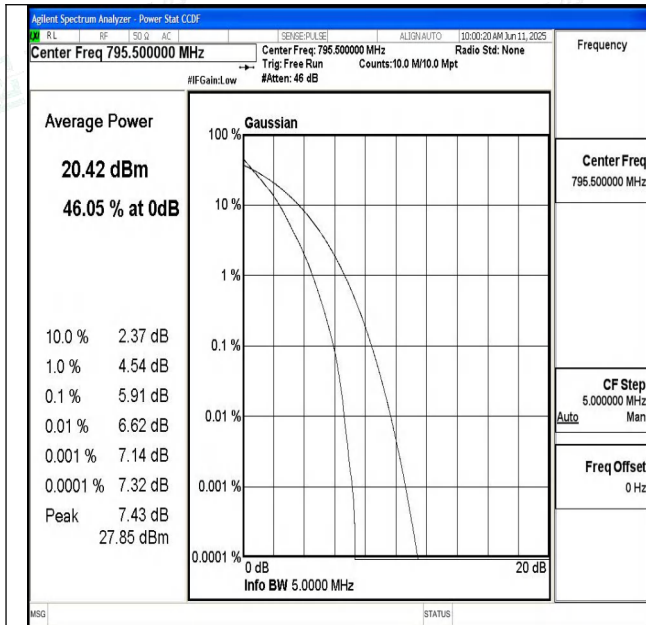


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L.3 26dB Bandwidth and Occupied Bandwidth

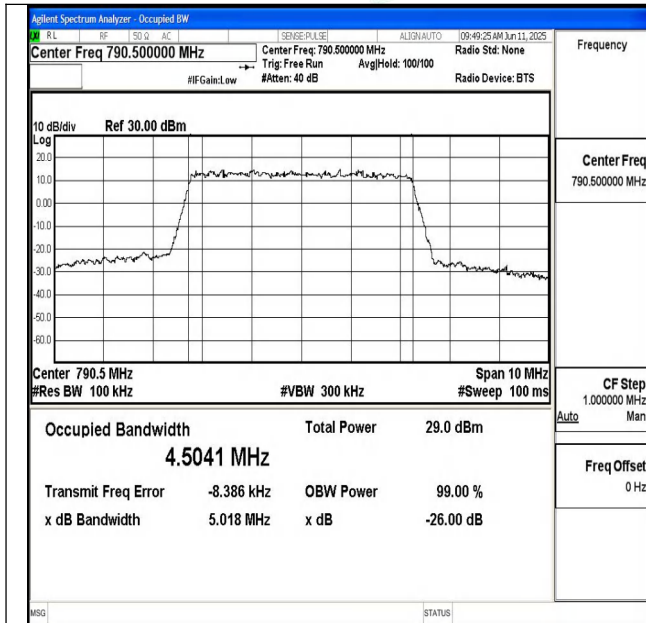
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5041	5.018	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5023	5.007	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5002	4.994	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5088	5.006	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5042	5.004	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5081	5.033	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9985	9.942	PASS
Band14	10MHz	16QAM	23330	50RB#0	9.0076	9.847	PASS

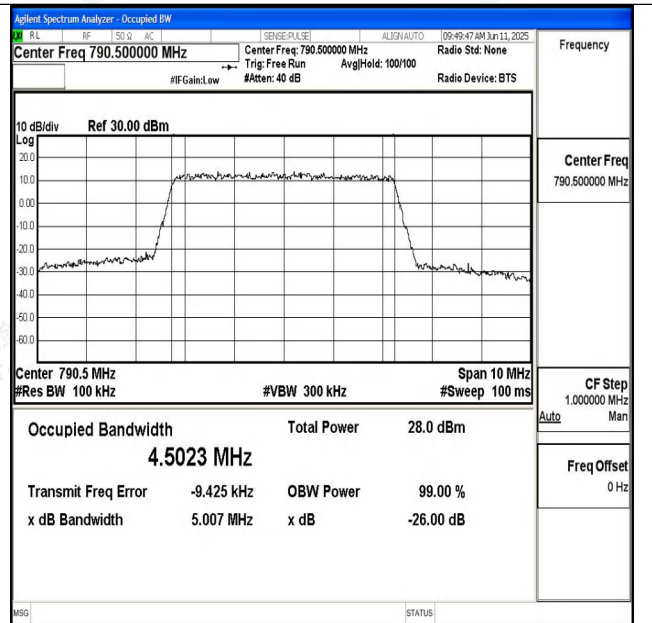




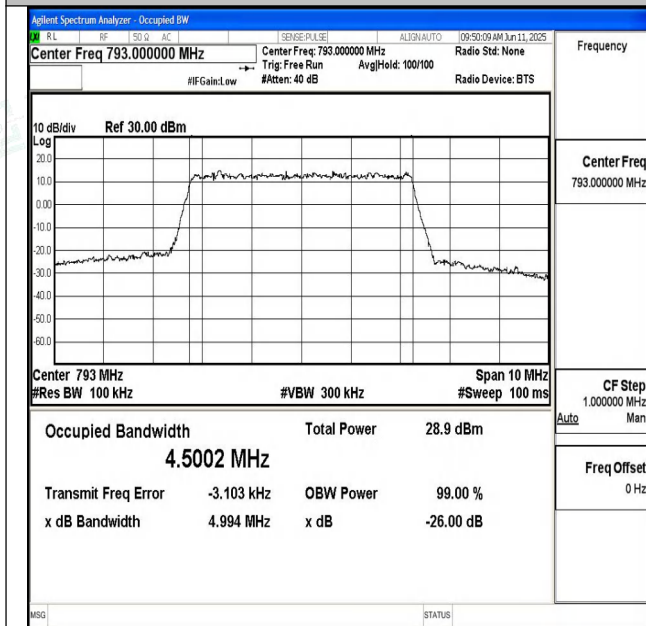
Test Graphs



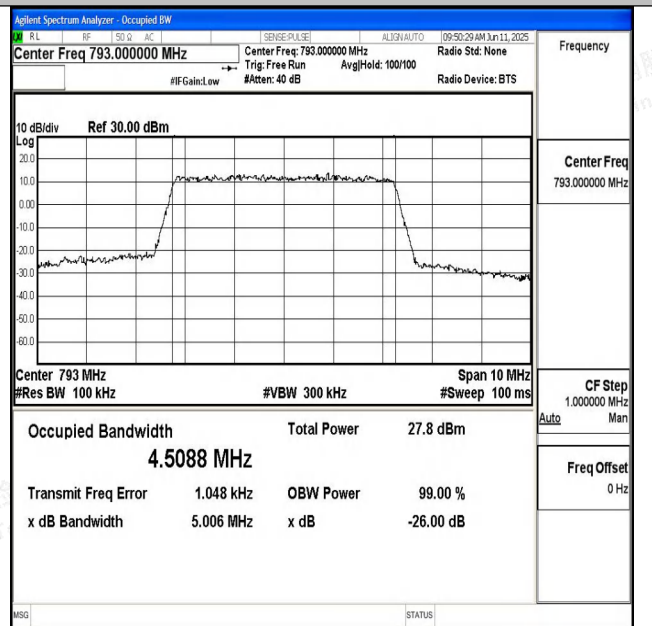
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Band14-5MHz-16QAM-23305-25RB#0-PASS



Band14-5MHz-QPSK-23330-25RB#0-PASS



Band14-5MHz-16QAM-23330-25RB#0-PASS

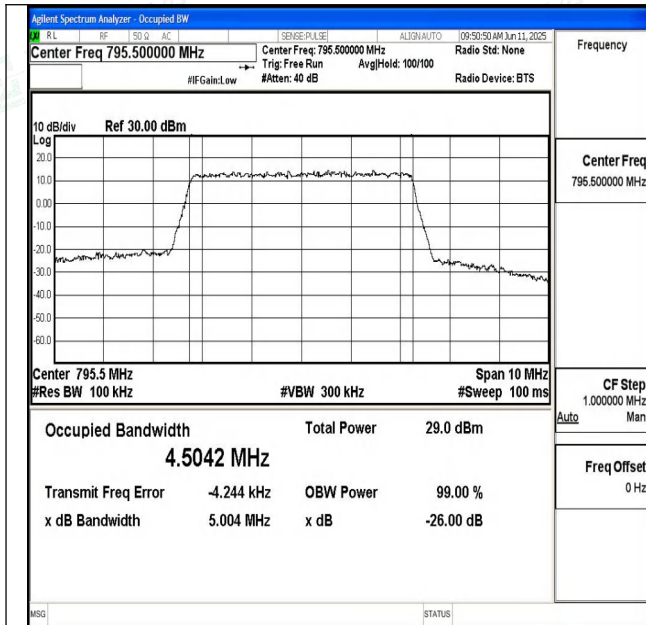


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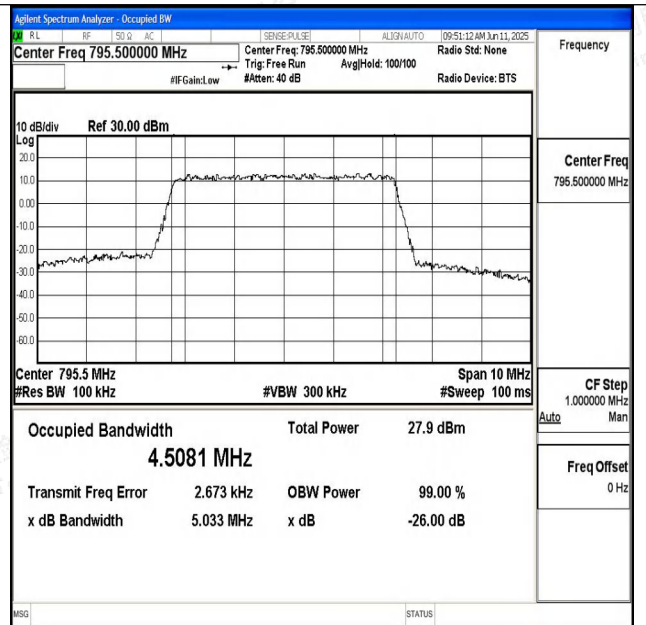
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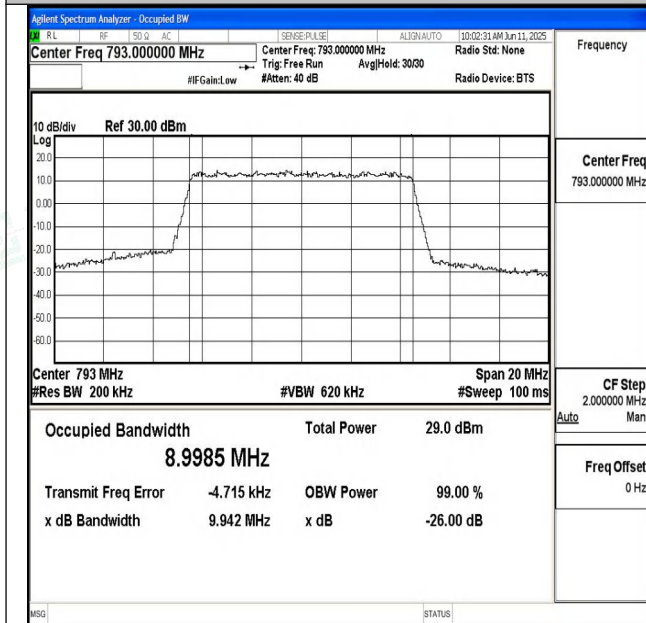
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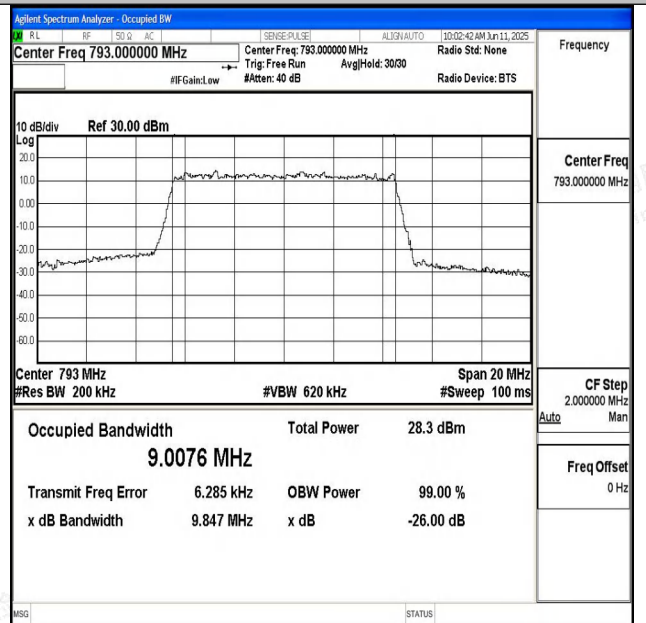
Band14-5MHz-QPSK-23355-25RB#0-PASS



Band14-5MHz-16QAM-23355-25RB#0-PASS



Band14-10MHz-QPSK-23330-50RB#0-PASS



Band14-10MHz-16QAM-23330-50RB#0-PASS



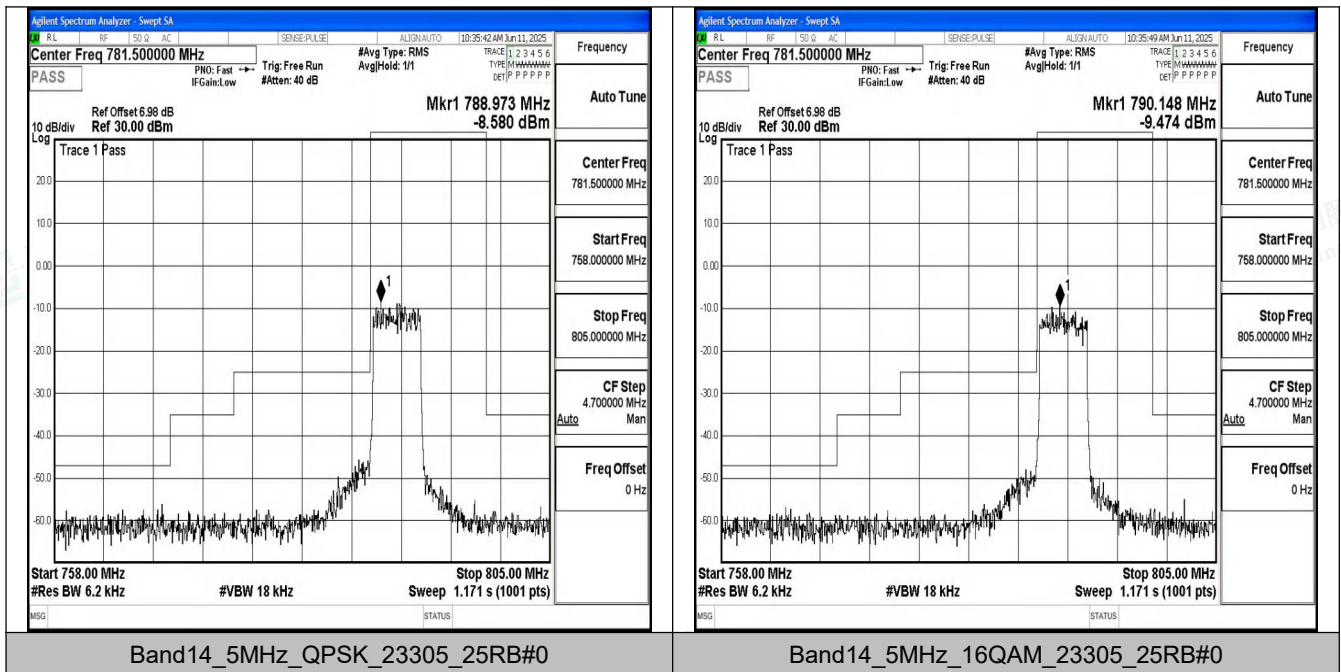


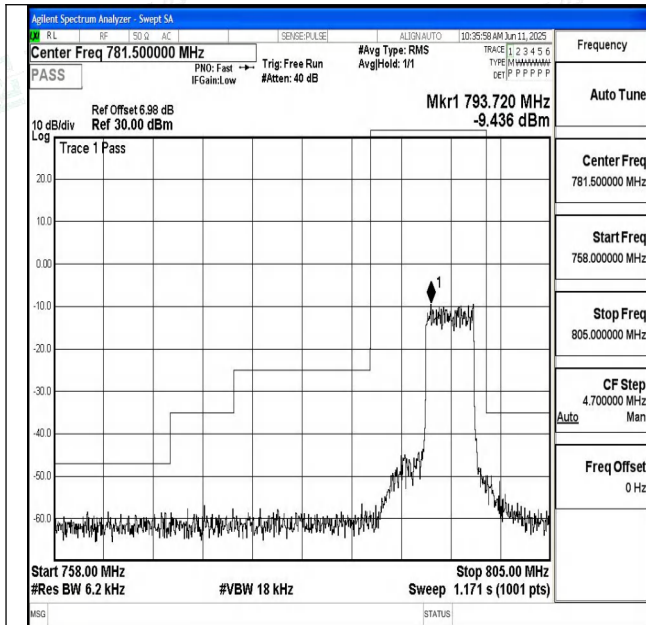
L.4 Band Edge

Test Result

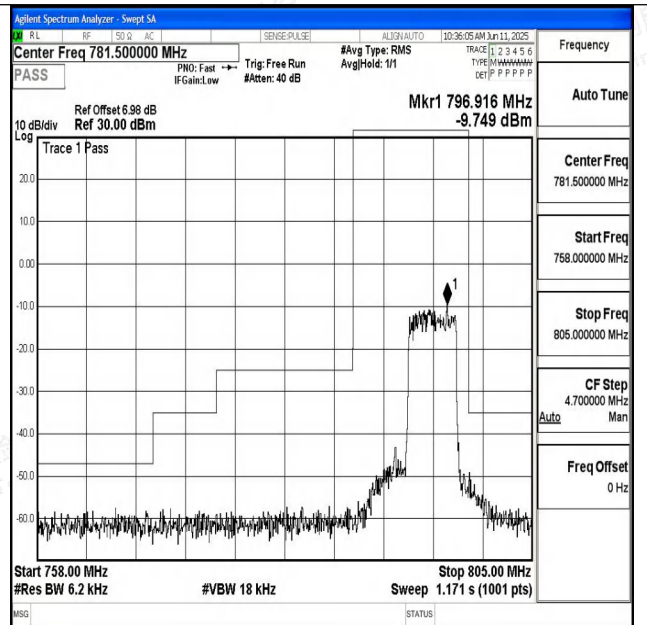
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	-56.12	PASS
Band14	5MHz	16QAM	23305	25RB#0	-56.89	PASS
Band14	5MHz	QPSK	23355	25RB#0	-58.41	PASS
Band14	5MHz	16QAM	23355	25RB#0	-57.52	PASS
Band14	10MHz	QPSK	23330	50RB#0	-57.44	PASS
Band14	10MHz	16QAM	23330	50RB#0	-56.14	PASS

Test Graphs

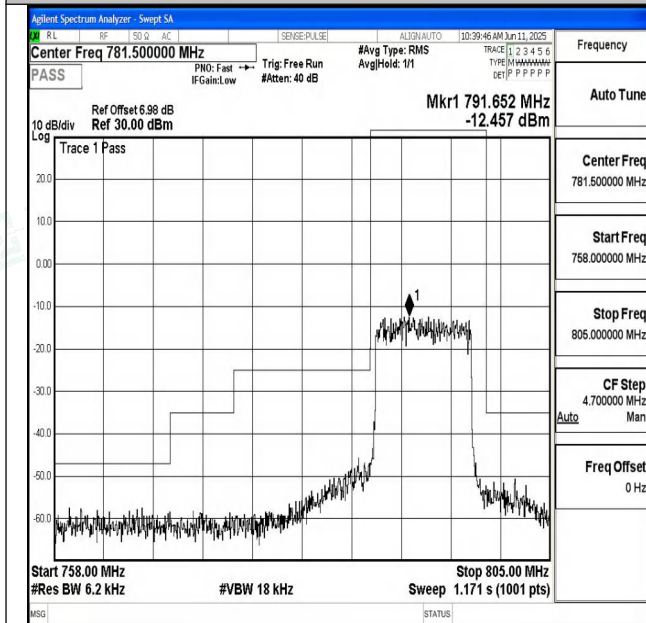




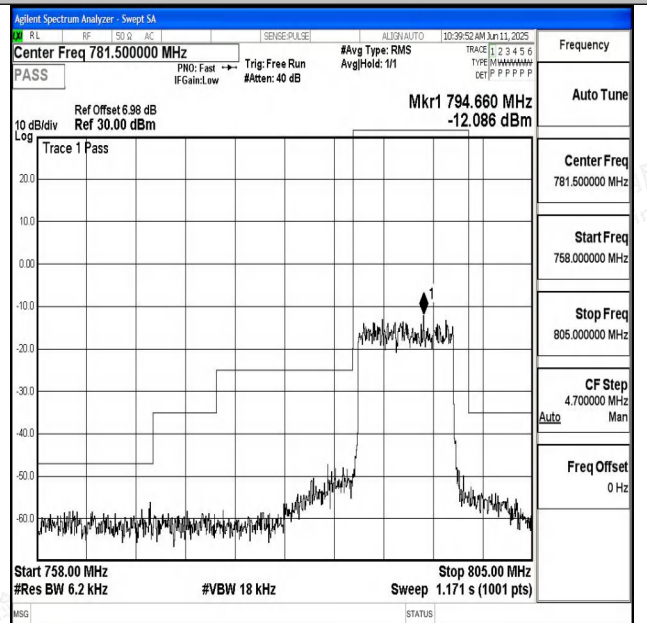
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Band14_5MHz_16QAM_23355_25RB#0



Band14_10MHz_QPSK_23330_50RB#0



Band14_10MHz_16QAM_23330_50RB#0



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L.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	0.009~0.15	-57.48	PASS
Band14	5MHz	QPSK	23305	1RB#0	0.15~30	-44.21	PASS
Band14	5MHz	QPSK	23305	1RB#0	30~1000	-52.27	PASS
Band14	5MHz	QPSK	23305	1RB#0	1000~3000	-37.94	PASS
Band14	5MHz	QPSK	23305	1RB#0	3000~10000	-35.56	PASS
Band14	5MHz	16QAM	23305	1RB#0	0.009~0.15	-55.62	PASS
Band14	5MHz	16QAM	23305	1RB#0	0.15~30	-39.61	PASS
Band14	5MHz	16QAM	23305	1RB#0	30~1000	-52.66	PASS
Band14	5MHz	16QAM	23305	1RB#0	1000~3000	-38.03	PASS
Band14	5MHz	16QAM	23305	1RB#0	3000~10000	-35.60	PASS
Band14	5MHz	QPSK	23330	1RB#0	0.009~0.15	-56.73	PASS
Band14	5MHz	QPSK	23330	1RB#0	0.15~30	-43.90	PASS
Band14	5MHz	QPSK	23330	1RB#0	30~1000	-53.14	PASS
Band14	5MHz	QPSK	23330	1RB#0	1000~3000	-39.30	PASS
Band14	5MHz	QPSK	23330	1RB#0	3000~10000	-35.40	PASS
Band14	5MHz	16QAM	23330	1RB#0	0.009~0.15	-55.54	PASS
Band14	5MHz	16QAM	23330	1RB#0	0.15~30	-39.29	PASS
Band14	5MHz	16QAM	23330	1RB#0	30~1000	-52.94	PASS
Band14	5MHz	16QAM	23330	1RB#0	1000~3000	-38.24	PASS
Band14	5MHz	16QAM	23330	1RB#0	3000~10000	-34.88	PASS
Band14	5MHz	QPSK	23355	1RB#0	0.009~0.15	-54.21	PASS
Band14	5MHz	QPSK	23355	1RB#0	0.15~30	-38.07	PASS
Band14	5MHz	QPSK	23355	1RB#0	30~1000	-52.81	PASS
Band14	5MHz	QPSK	23355	1RB#0	1000~3000	-38.89	PASS
Band14	5MHz	QPSK	23355	1RB#0	3000~10000	-35.44	PASS
Band14	5MHz	16QAM	23355	1RB#0	0.009~0.15	-57.79	PASS
Band14	5MHz	16QAM	23355	1RB#0	0.15~30	-42.03	PASS
Band14	5MHz	16QAM	23355	1RB#0	30~1000	-53.14	PASS
Band14	5MHz	16QAM	23355	1RB#0	1000~3000	-37.97	PASS
Band14	5MHz	16QAM	23355	1RB#0	3000~10000	-34.99	PASS
Band14	10MHz	QPSK	23330	1RB#0	0.009~0.15	-54.98	PASS
Band14	10MHz	QPSK	23330	1RB#0	0.15~30	-43.35	PASS
Band14	10MHz	QPSK	23330	1RB#0	30~1000	-52.65	PASS
Band14	10MHz	QPSK	23330	1RB#0	1000~3000	-39.40	PASS

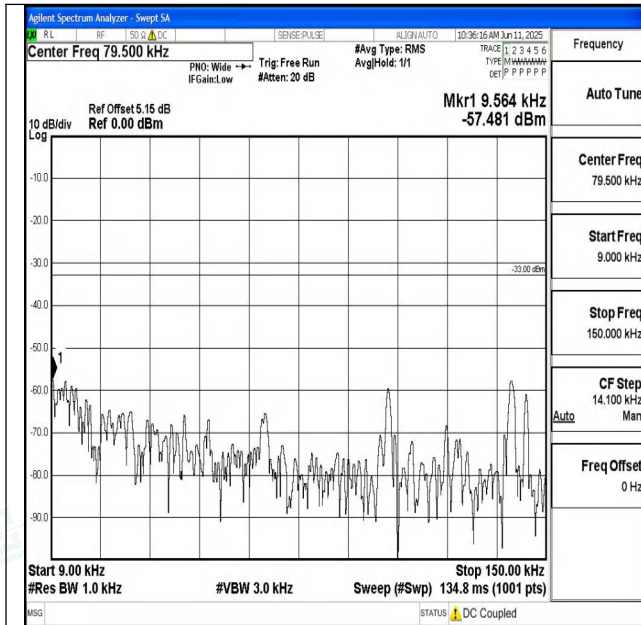


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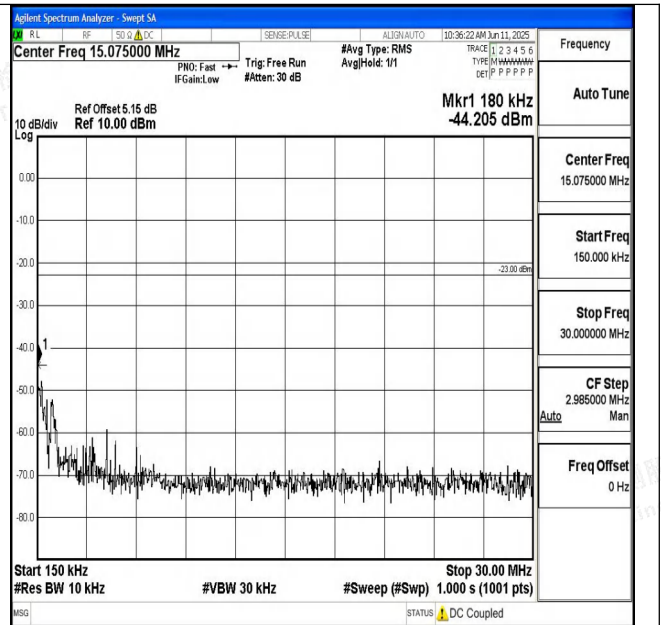


Band14	10MHz	QPSK	23330	1RB#0	3000~10000	-35.69	PASS
Band14	10MHz	16QAM	23330	1RB#0	0.009~0.15	-56.57	PASS
Band14	10MHz	16QAM	23330	1RB#0	0.15~30	-40.40	PASS
Band14	10MHz	16QAM	23330	1RB#0	30~1000	-52.48	PASS
Band14	10MHz	16QAM	23330	1RB#0	1000~3000	-38.92	PASS
Band14	10MHz	16QAM	23330	1RB#0	3000~10000	-35.64	PASS

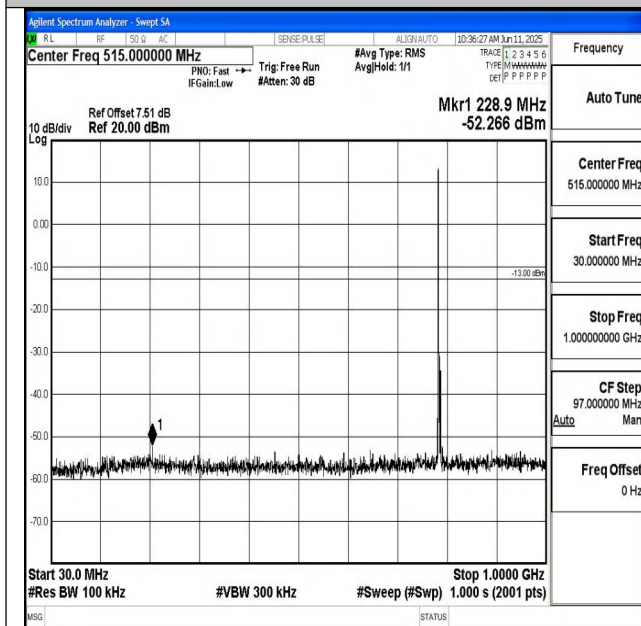
Test Graphs



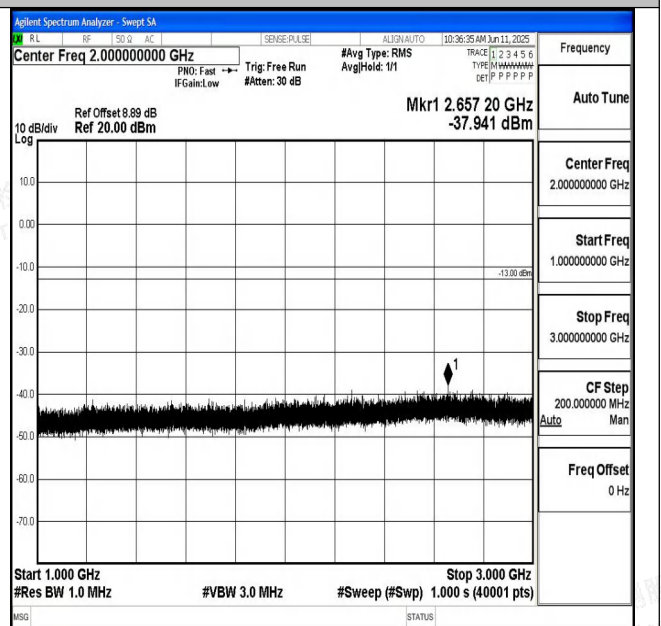
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Band14_5MHz_QPSK_23305_1RB#0_0.15~30_0.15~30



Band14_5MHz_QPSK_23305_1RB#0_30~1000_30~1000



Band14_5MHz_QPSK_23305_1RB#0_1000~3000_1000~3



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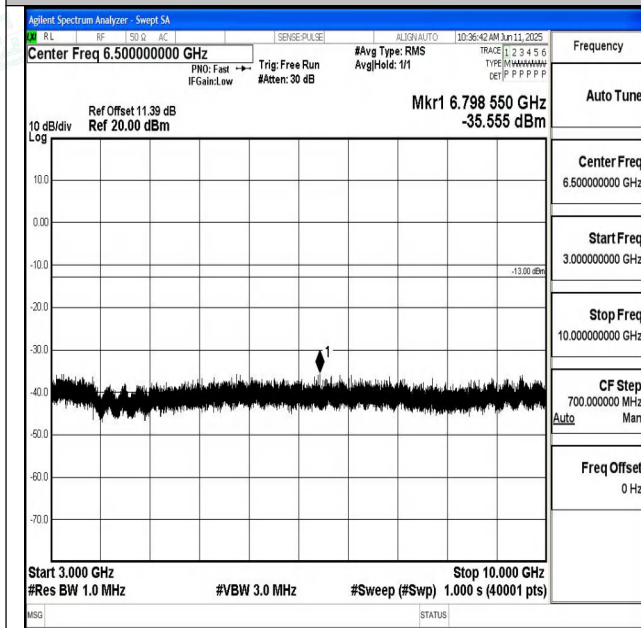
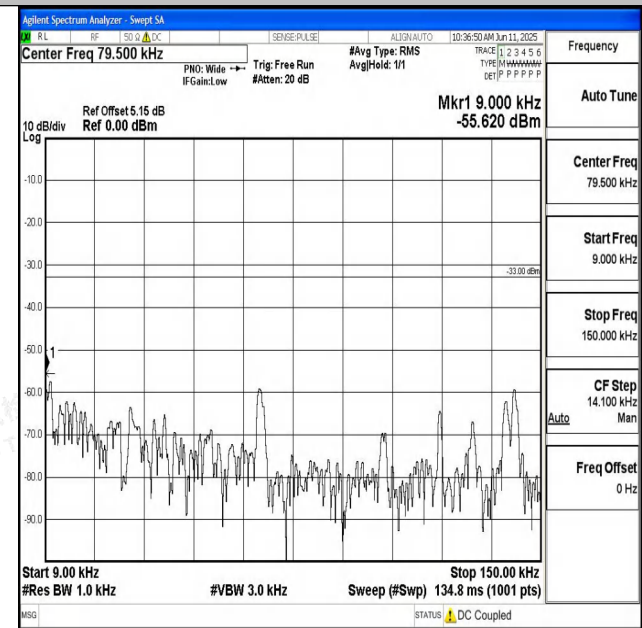
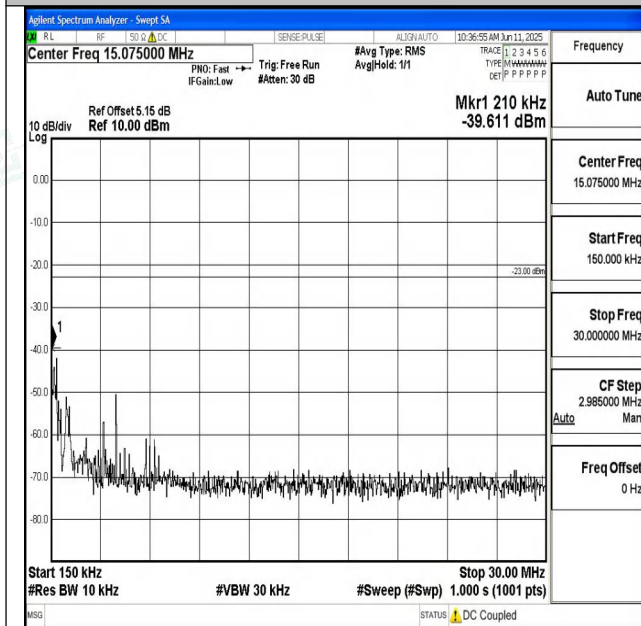
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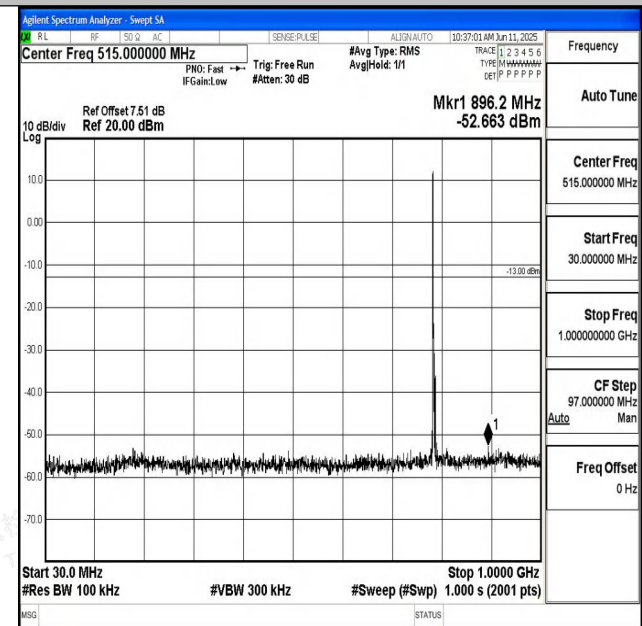
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Band14_5MHz_QPSK_23305_1RB#0_3000~10000_3000
~10000Band14_5MHz_16QAM_23305_1RB#0_0.009~0.15_0.009~
0.15

Band14_5MHz_16QAM_23305_1RB#0_0.15~30_0.15~30



Band14_5MHz_16QAM_23305_1RB#0_30~1000_30~1000

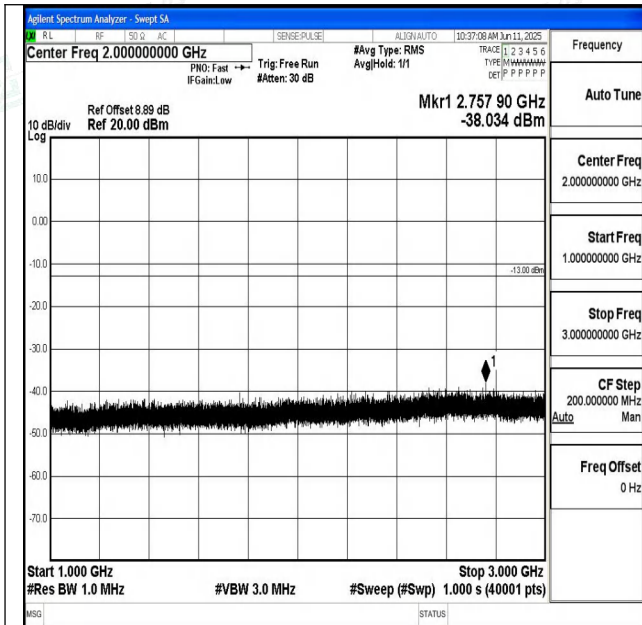


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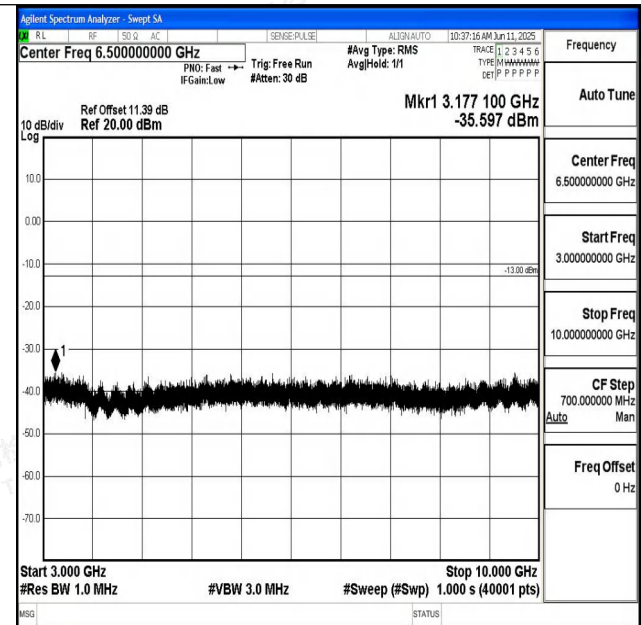
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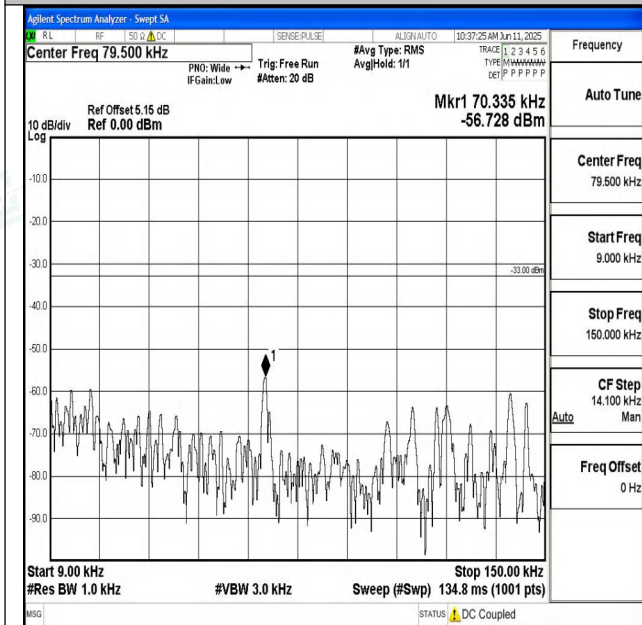
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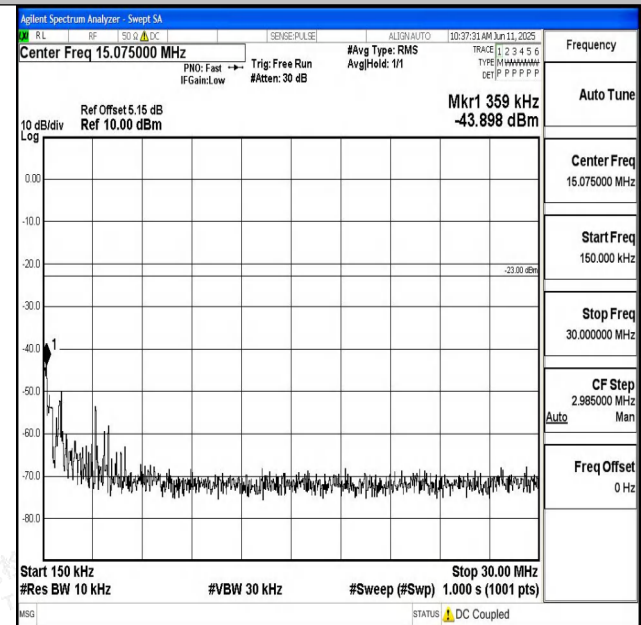
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~3000



Band14_5MHz_16QAM_23305_1RB#0_3000~10000_3000
~10000



Band14_5MHz_QPSK_23330_1RB#0_0.009~0.15_0.009~
0.15



Band14_5MHz_QPSK_23330_1RB#0_0.15~30_0.15~30

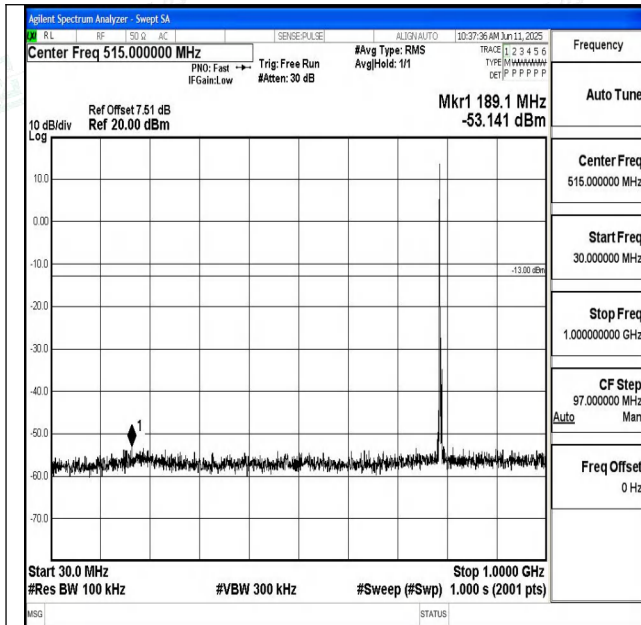


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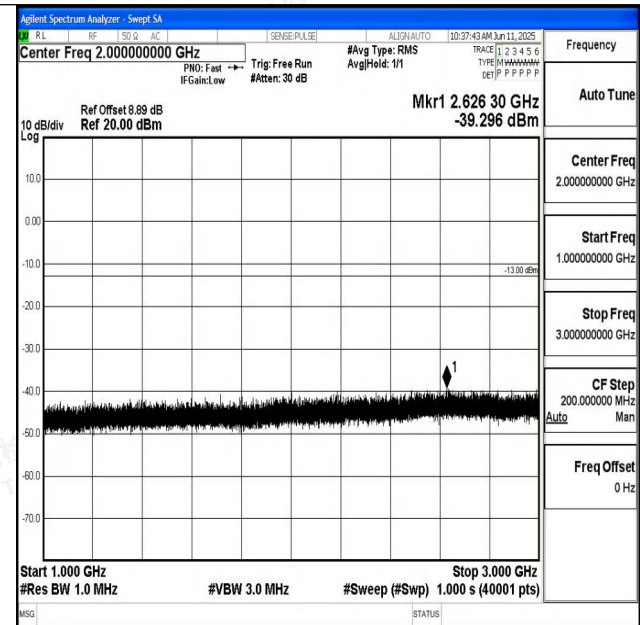
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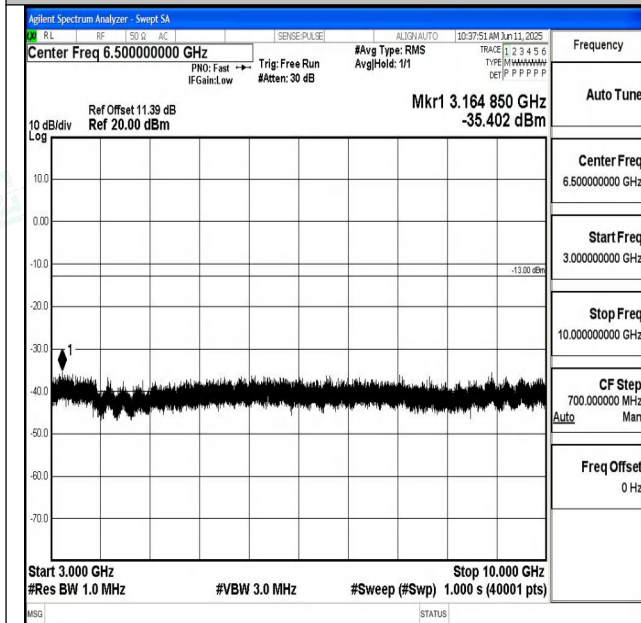
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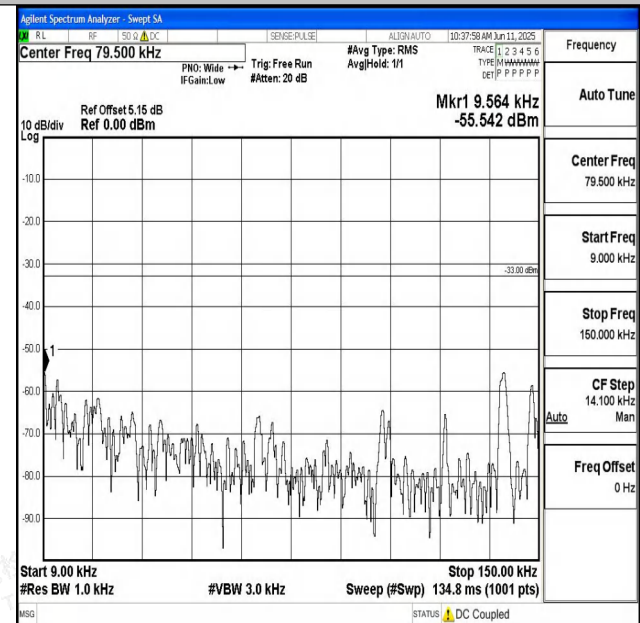
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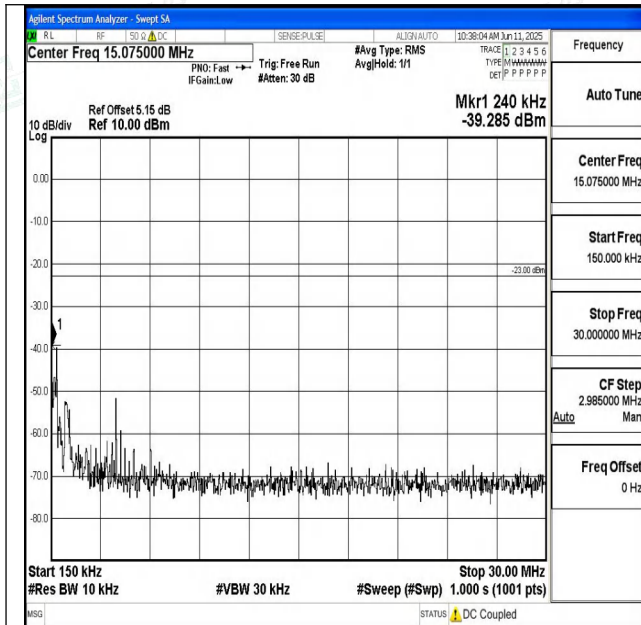


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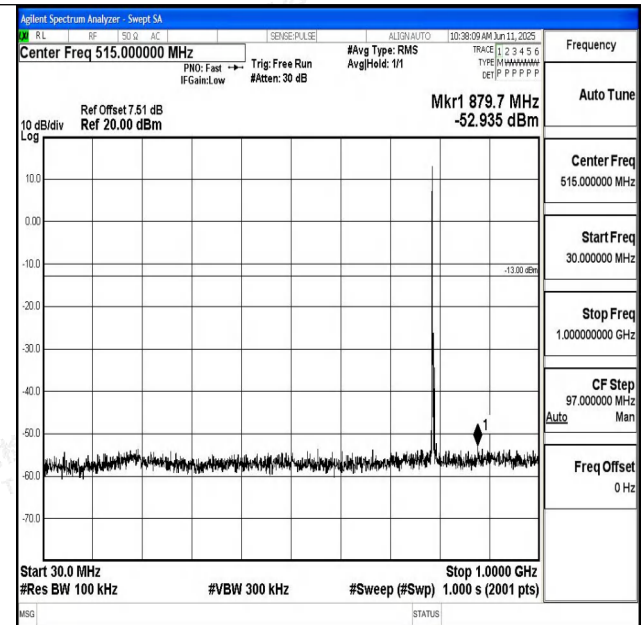
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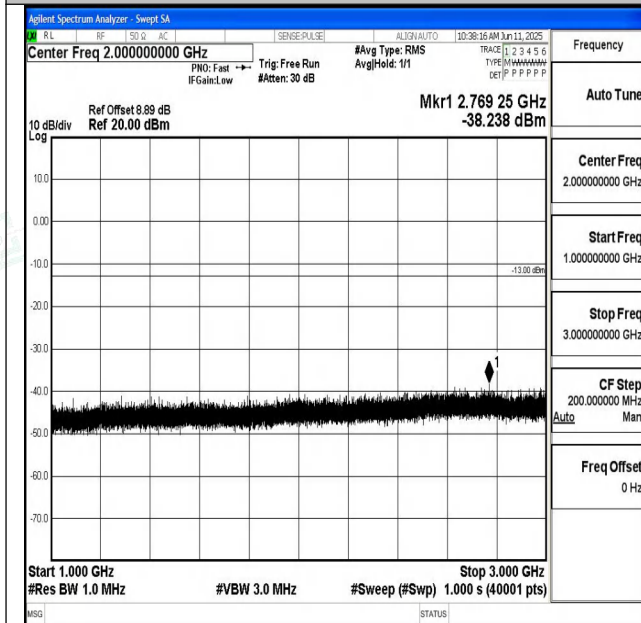
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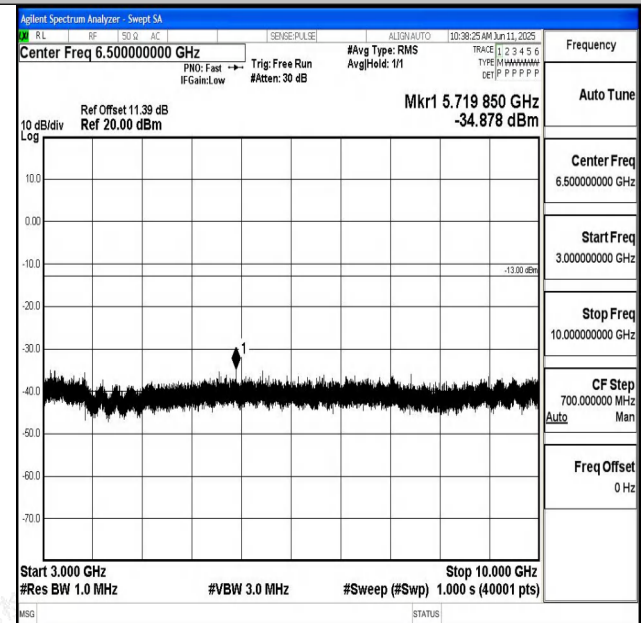
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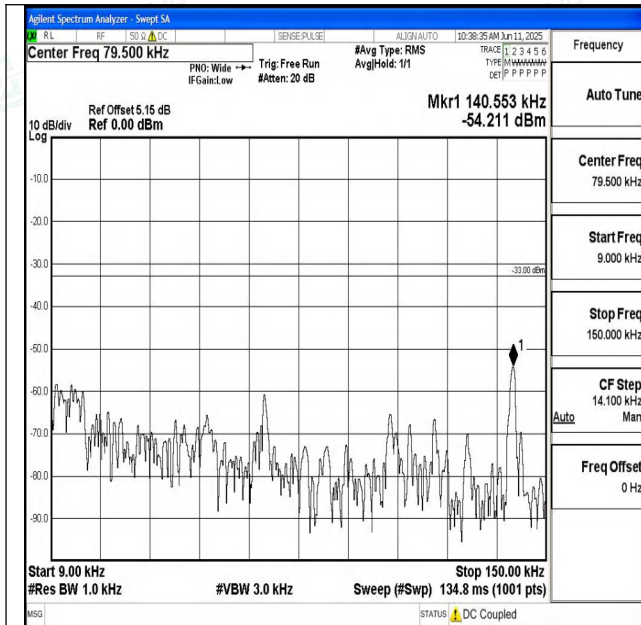


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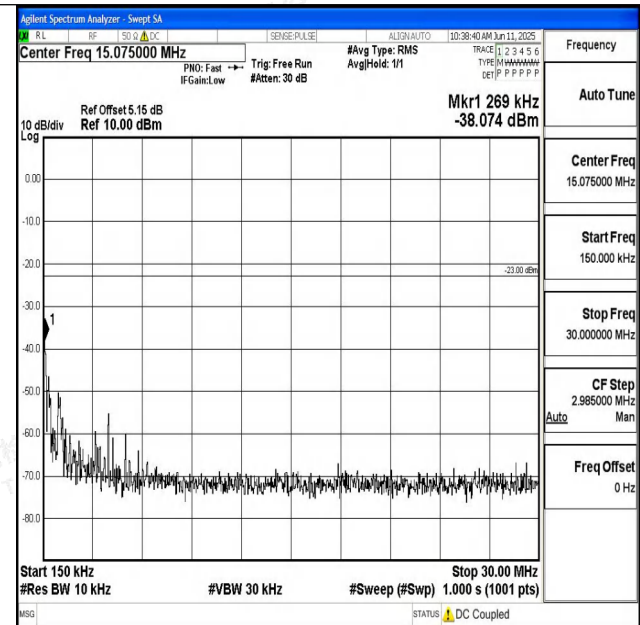
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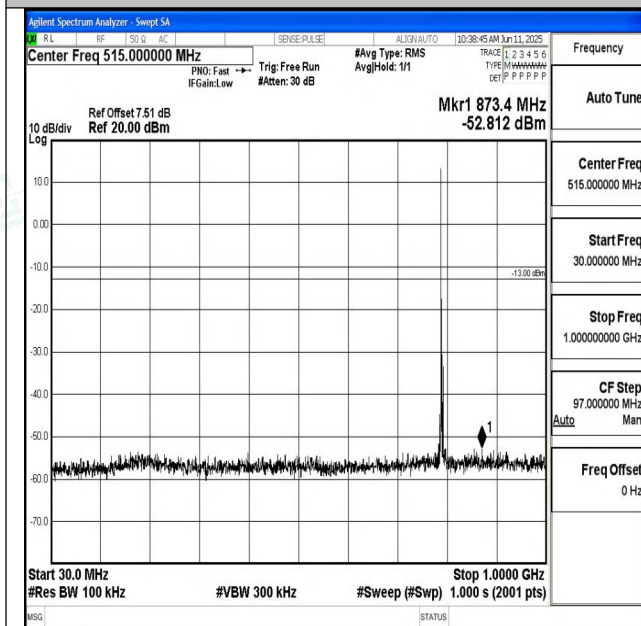
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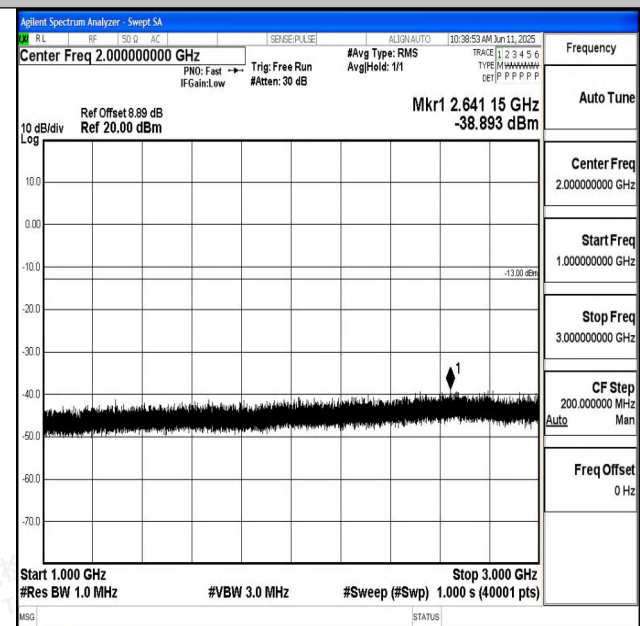
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Band14_5MHz_QPSK_23355_1RB#0_1000~3000_1000~3
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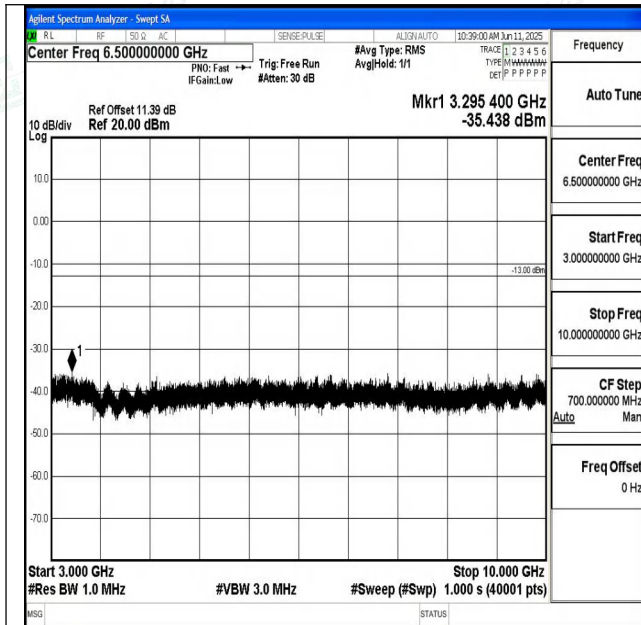


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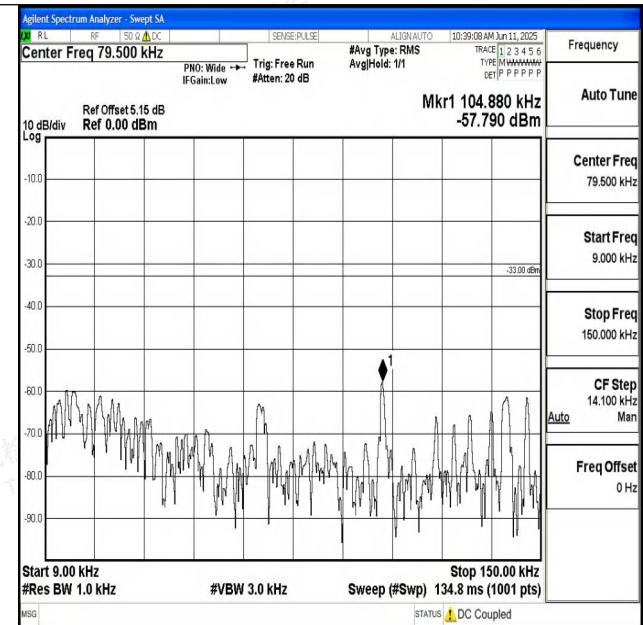
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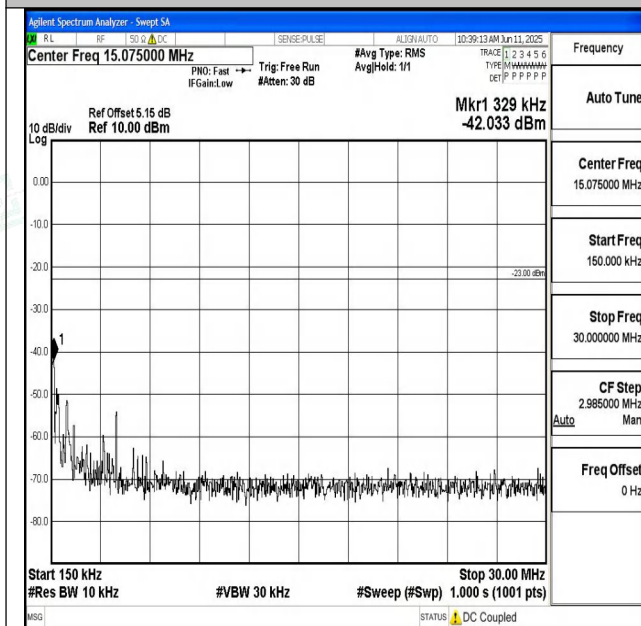
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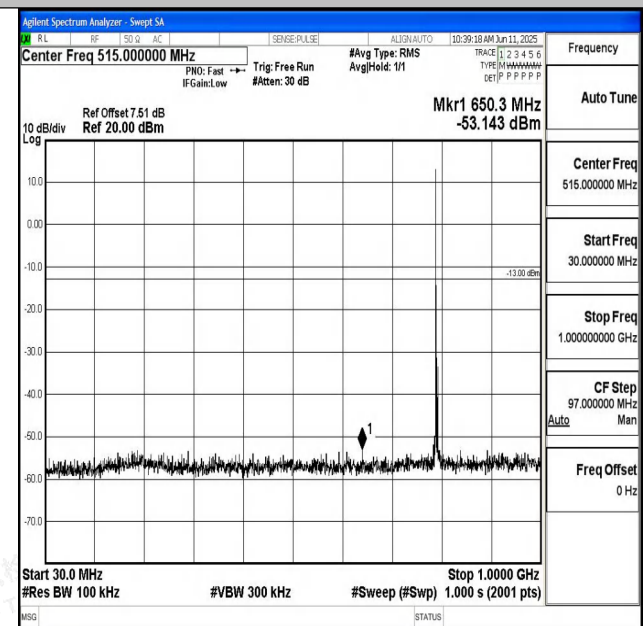
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Band14_5MHz_16QAM_23355_1RB#0_0.15~30_0.15~30



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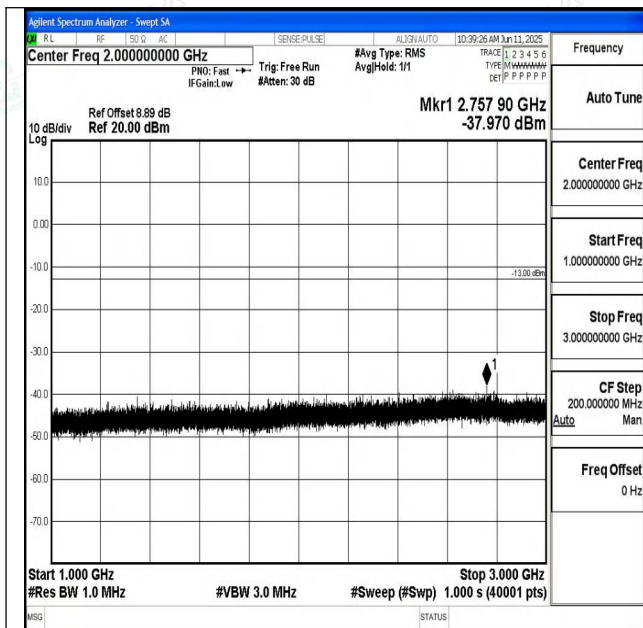
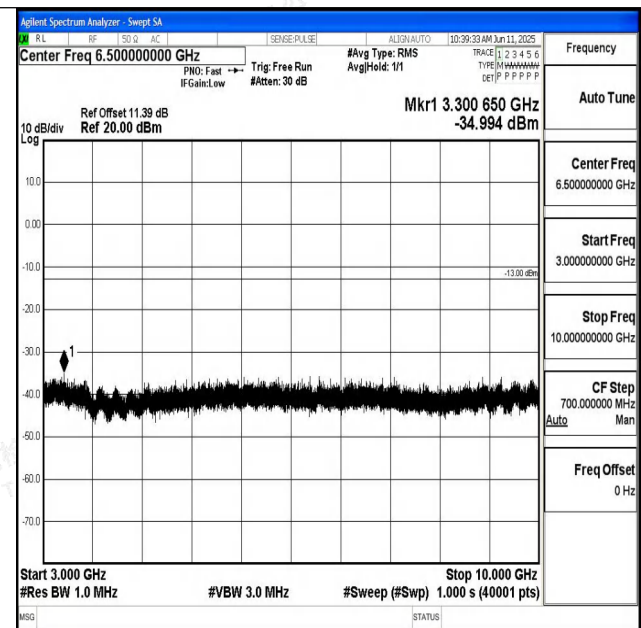
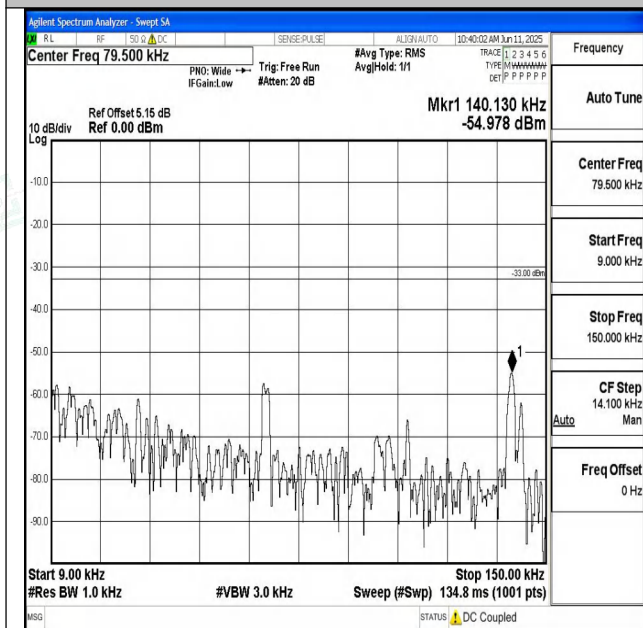
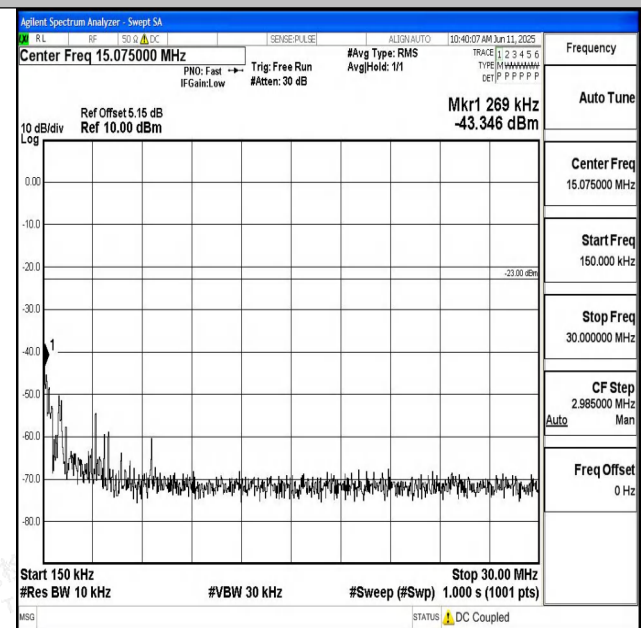


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Band14_5MHz_16QAM_23355_1RB#0_1000~3000_1000
~3000Band14_5MHz_16QAM_23355_1RB#0_3000~10000_3000
~10000Band14_10MHz_QPSK_23330_1RB#0_0.009~0.15_0.009
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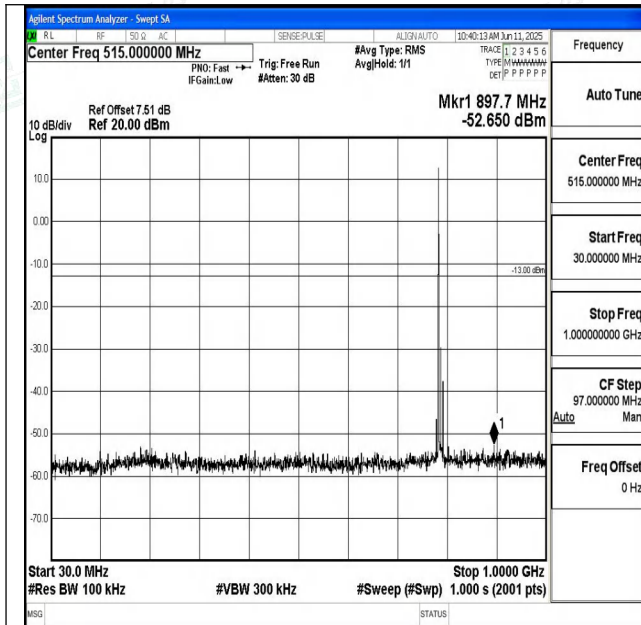


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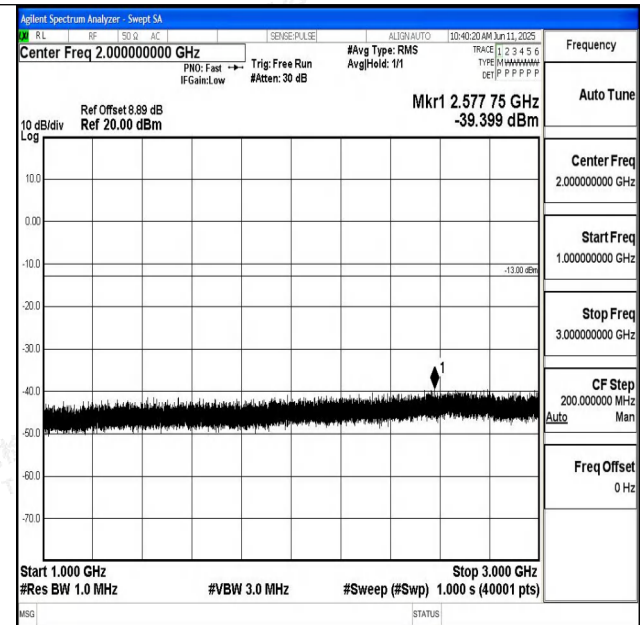
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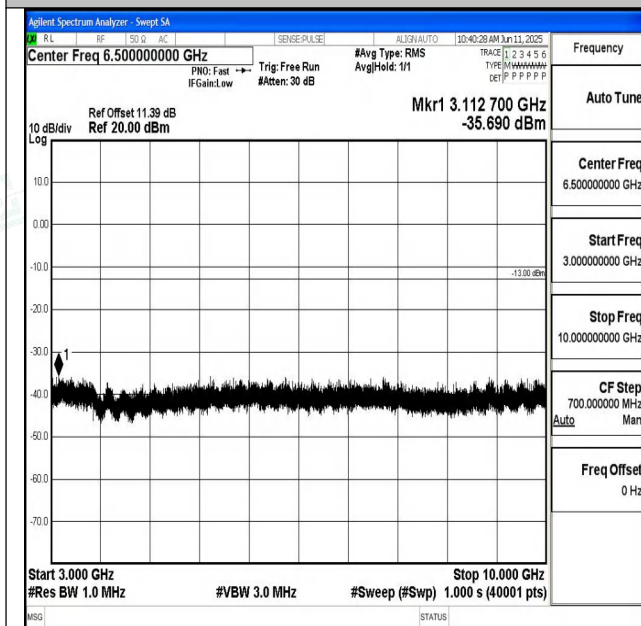
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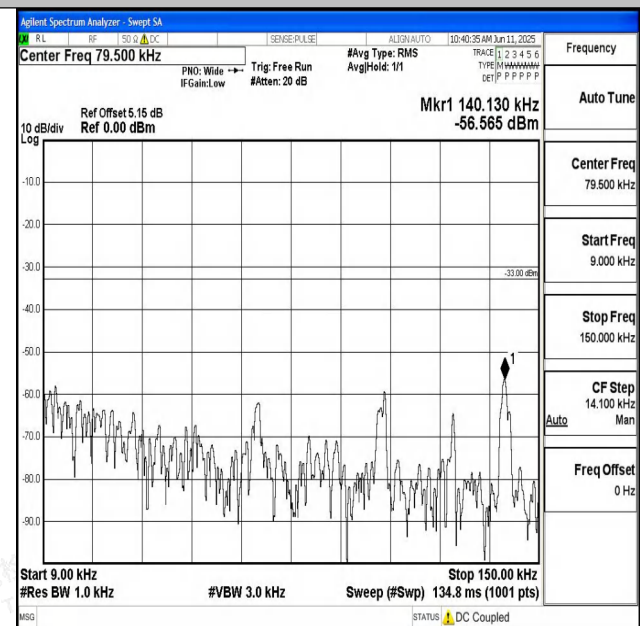
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3000



Band14_10MHz_QPSK_23330_1RB#0_3000~10000_300

0~10000



Band14_10MHz_16QAM_23330_1RB#0_0.009~0.15_0.009

~0.15

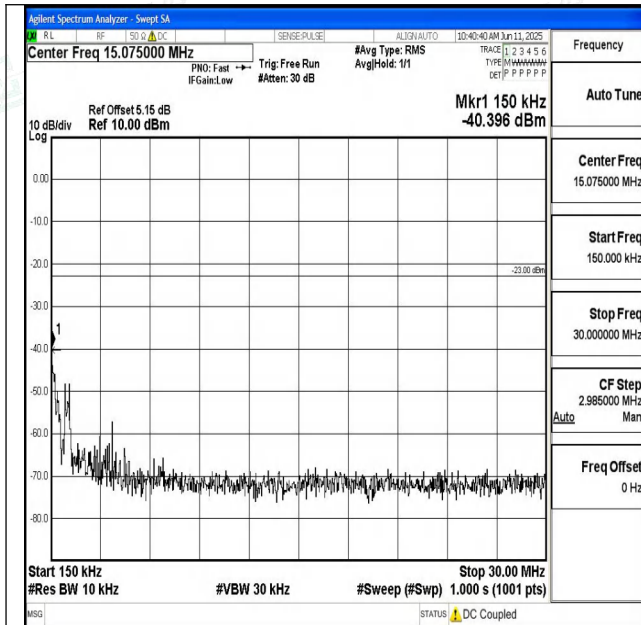


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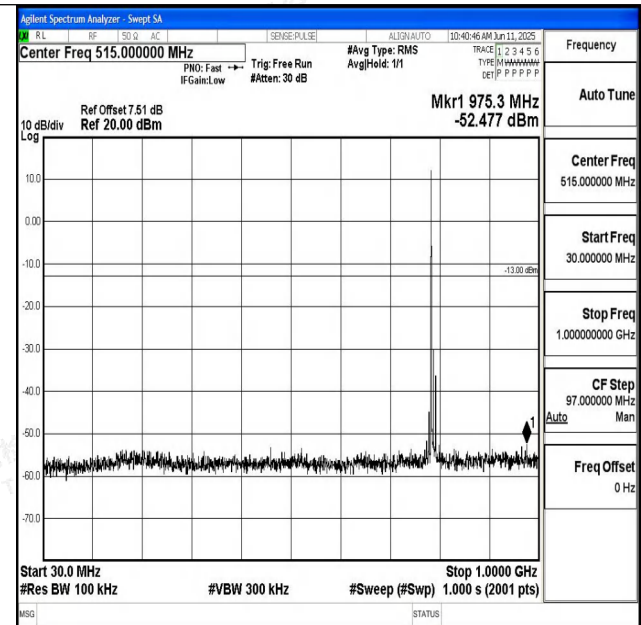
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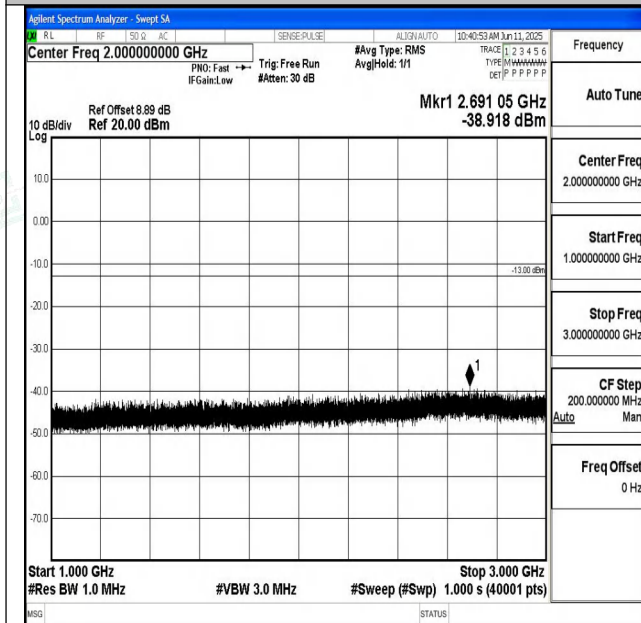
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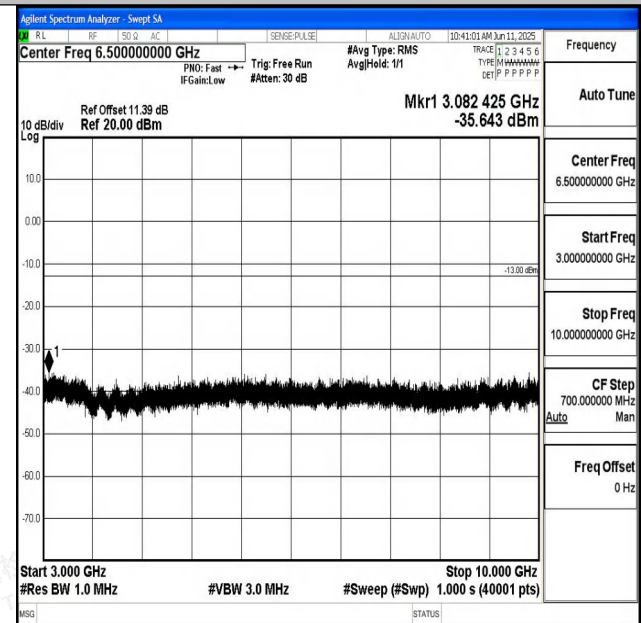
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Band14_10MHz_16QAM_23330_1RB#0_1000~3000_100

0~3000



Band14_10MHz_16QAM_23330_1RB#0_3000~10000_300

0~10000



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