

FCC Appendix RF Test Data for LTE band 13

Company : HK EKO ELECTRONICS LIMITED

EUT : GPS Tracker

Model Number : G05

Report No. : CTA26071602205

FCC ID : 2BR3K-GPSTRACK-G05

Reviewed By : Eric Wang

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.19	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.54	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.50	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.39	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.42	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.51	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.51	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.08	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.35	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.85	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.68	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.73	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.03	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.23	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.94	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.83	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.20	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.31	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.37	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.95	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.16	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.57	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.91	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.74	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.59	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.59	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.70	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.55	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.99	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.26	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.93	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.73	PASS

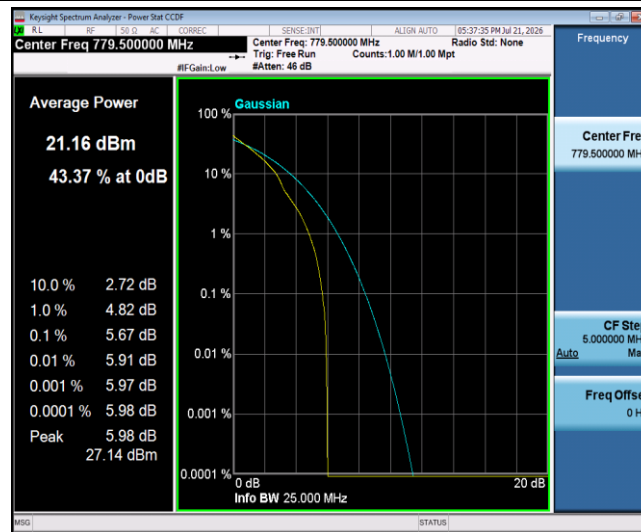
Band13	5MHz	16QAM	23230	12RB#6	21.74	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.04	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.43	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.80	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.87	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.15	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.67	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.67	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.27	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.34	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.54	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.16	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.61	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.59	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.64	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.72	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.20	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

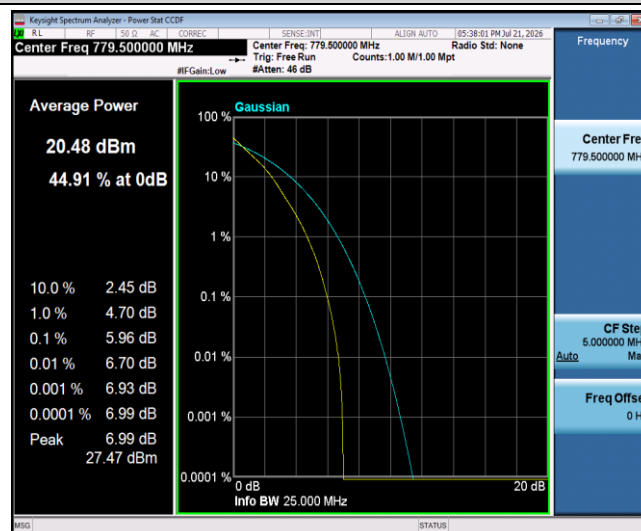
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	5.67	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.96	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.57	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.93	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.28	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	6.20	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	6.53	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.58	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	6.13	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.57	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	6.24	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.92	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.76	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	6.16	13	PASS

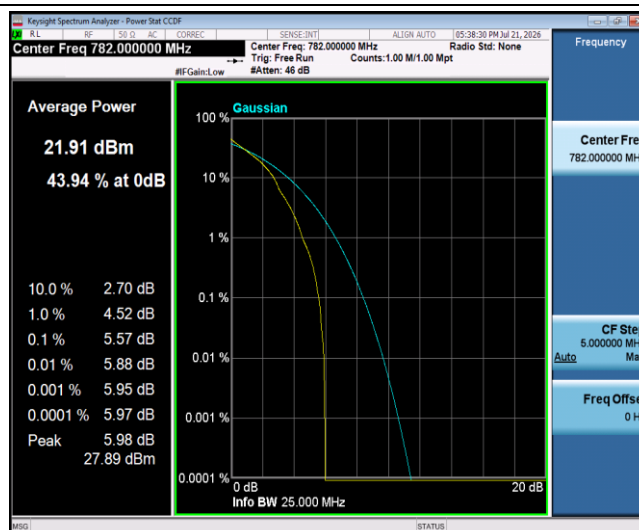
Test Graphs



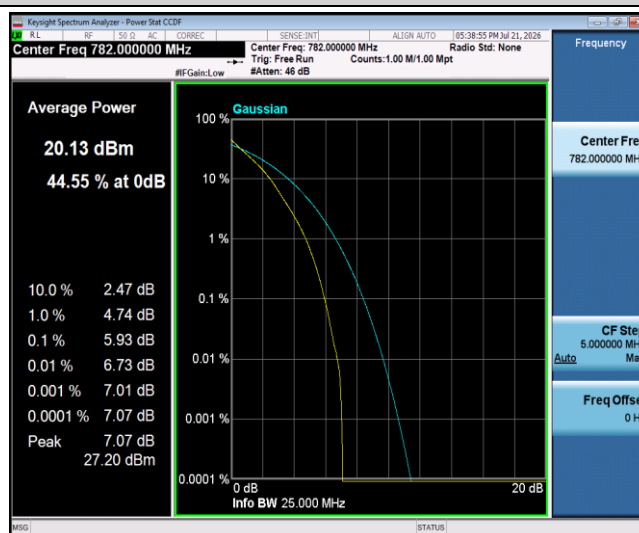
Band13-5MHz-QPSK-23205-1RB#0



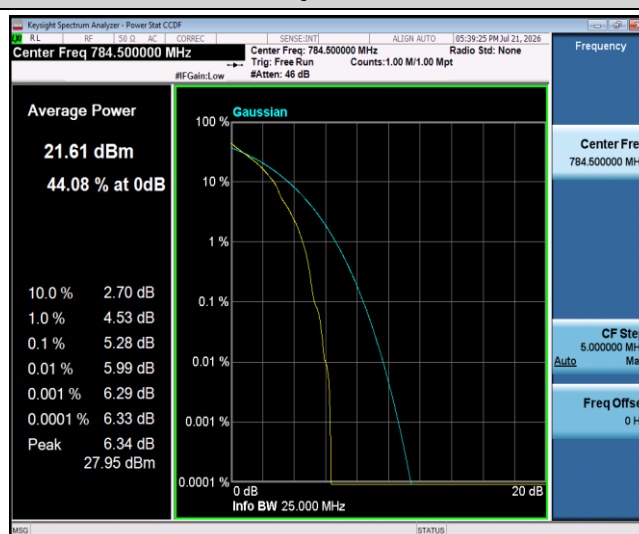
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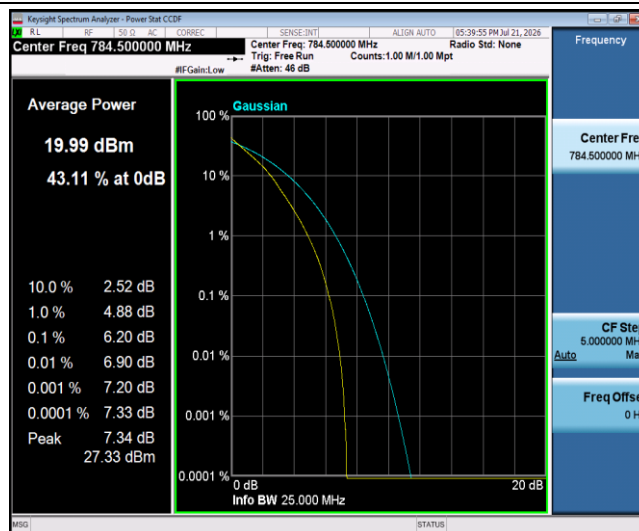
Band13-5MHz-QPSK-23230-1RB#0



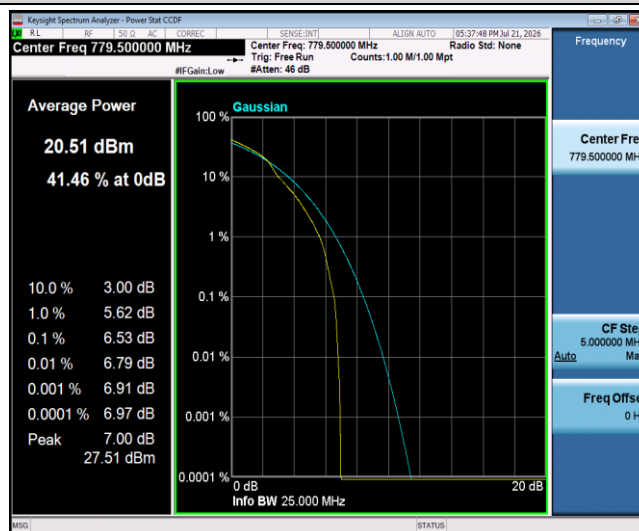
Band13-5MHz-QPSK-23230-25RB#0



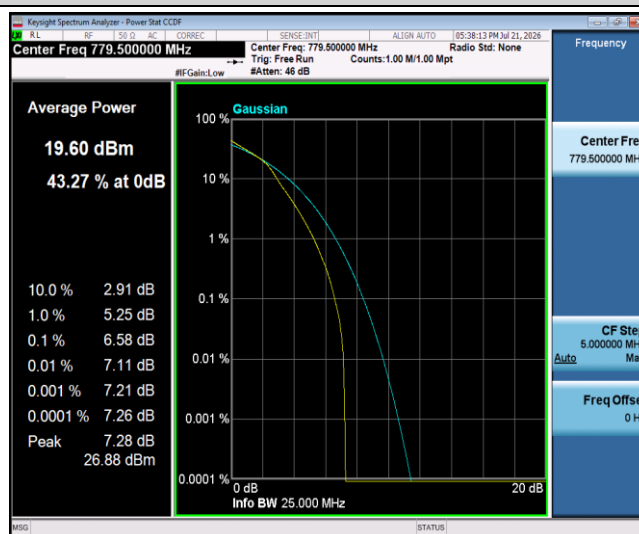
Band13-5MHz-QPSK-23255-1RB#0



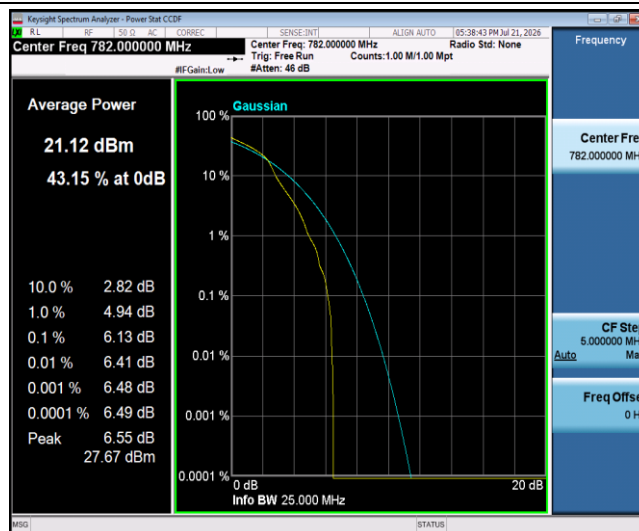
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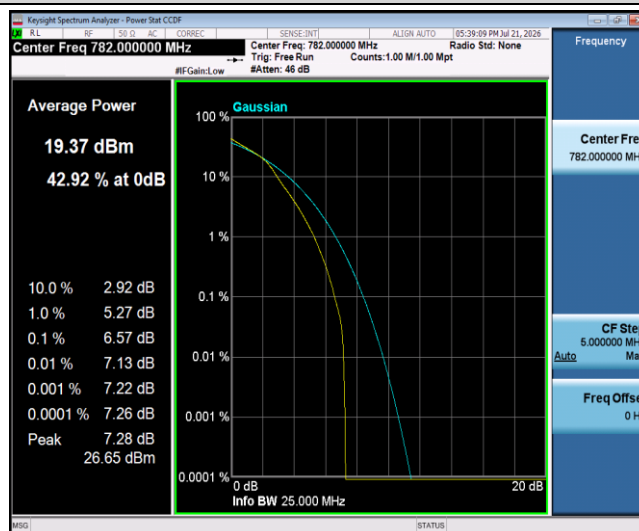
Band13-5MHz-16QAM-23205-1RB#0



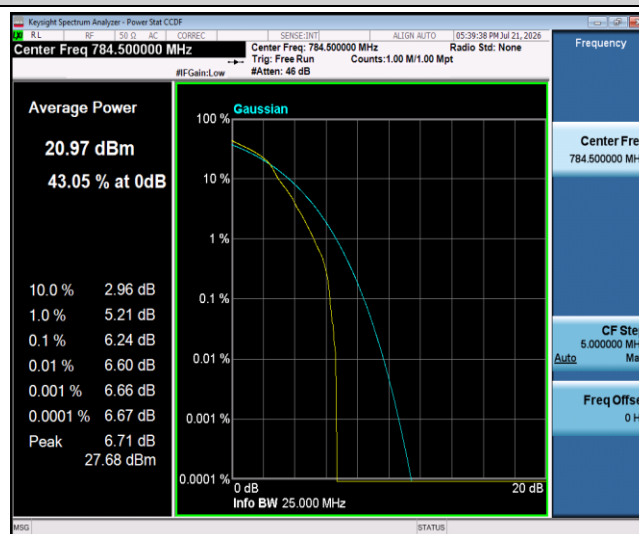
Band13-5MHz-16QAM-23205-25RB#0



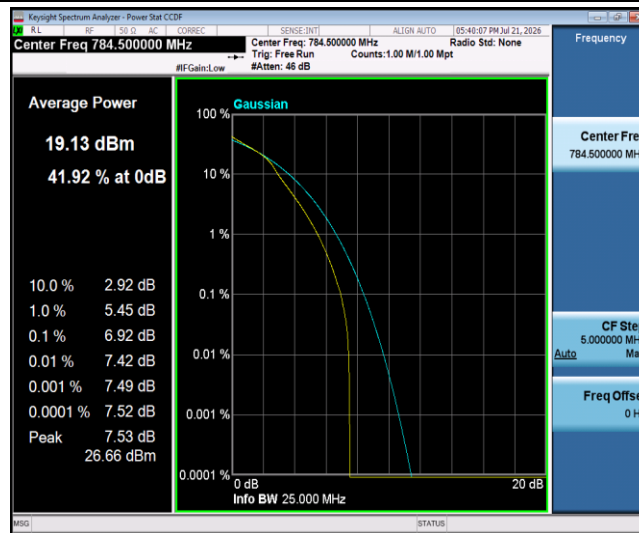
Band13-5MHz-16QAM-23230-1RB#0



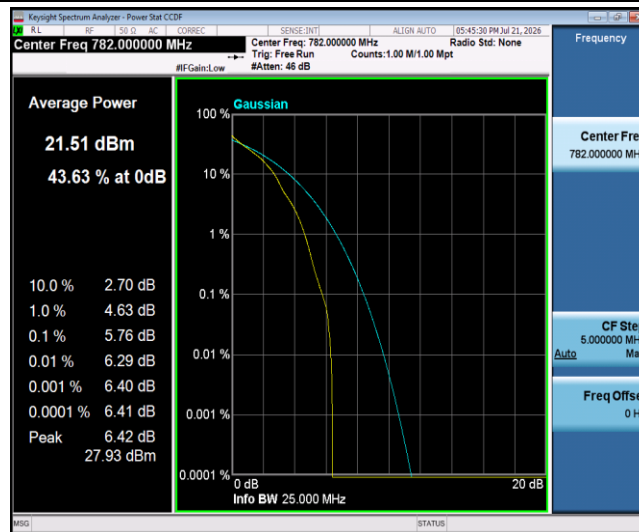
Band13-5MHz-16QAM-23230-25RB#0



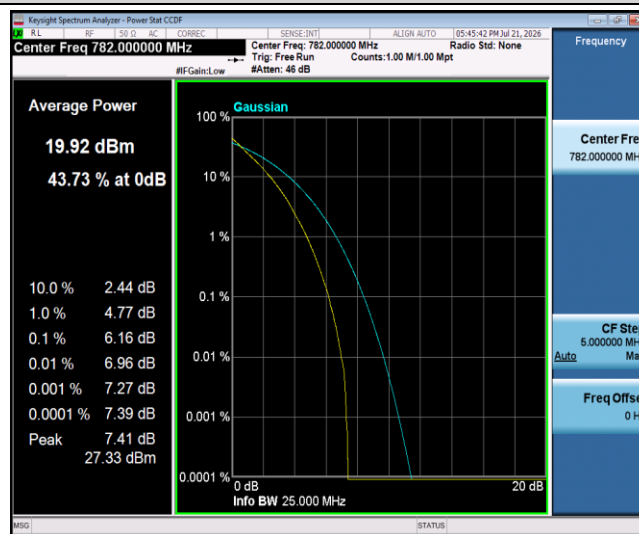
Band13-5MHz-16QAM-23255-1RB#0



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



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



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

Appendix C: 26dB Bandwidth and Occupied Bandwidth

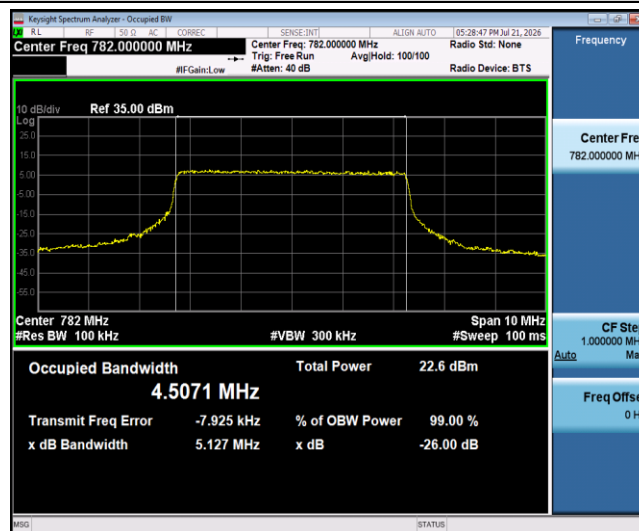
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4889	5.086	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5071	5.127	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5208	5.227	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5006	5.084	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5054	5.079	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5071	5.149	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9905	9.644	PASS

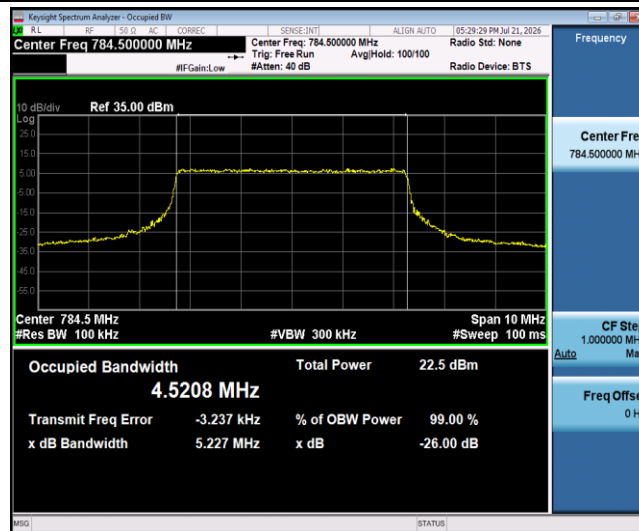
Test Graphs



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



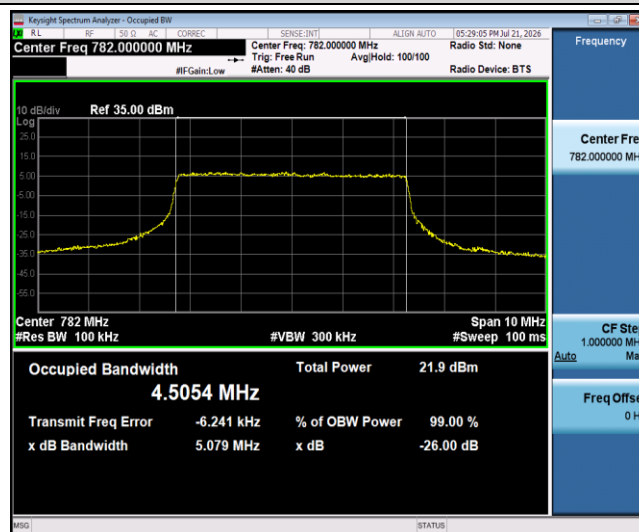
Band13-5MHz-QPSK-23230-25RB#0



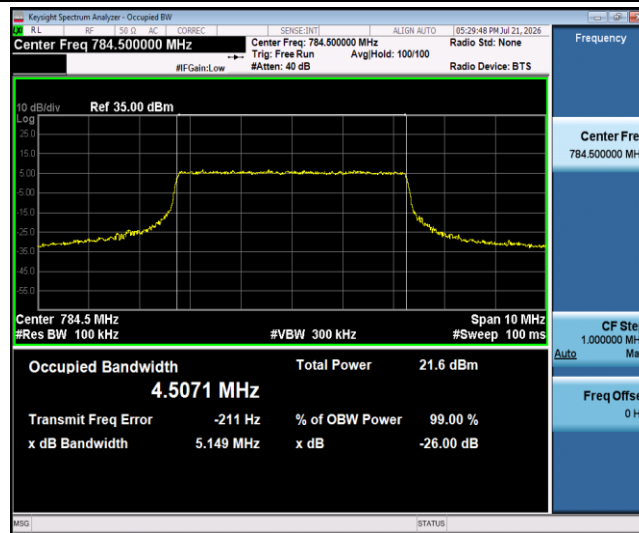
Band13-5MHz-QPSK-23255-25RB#0



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



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



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



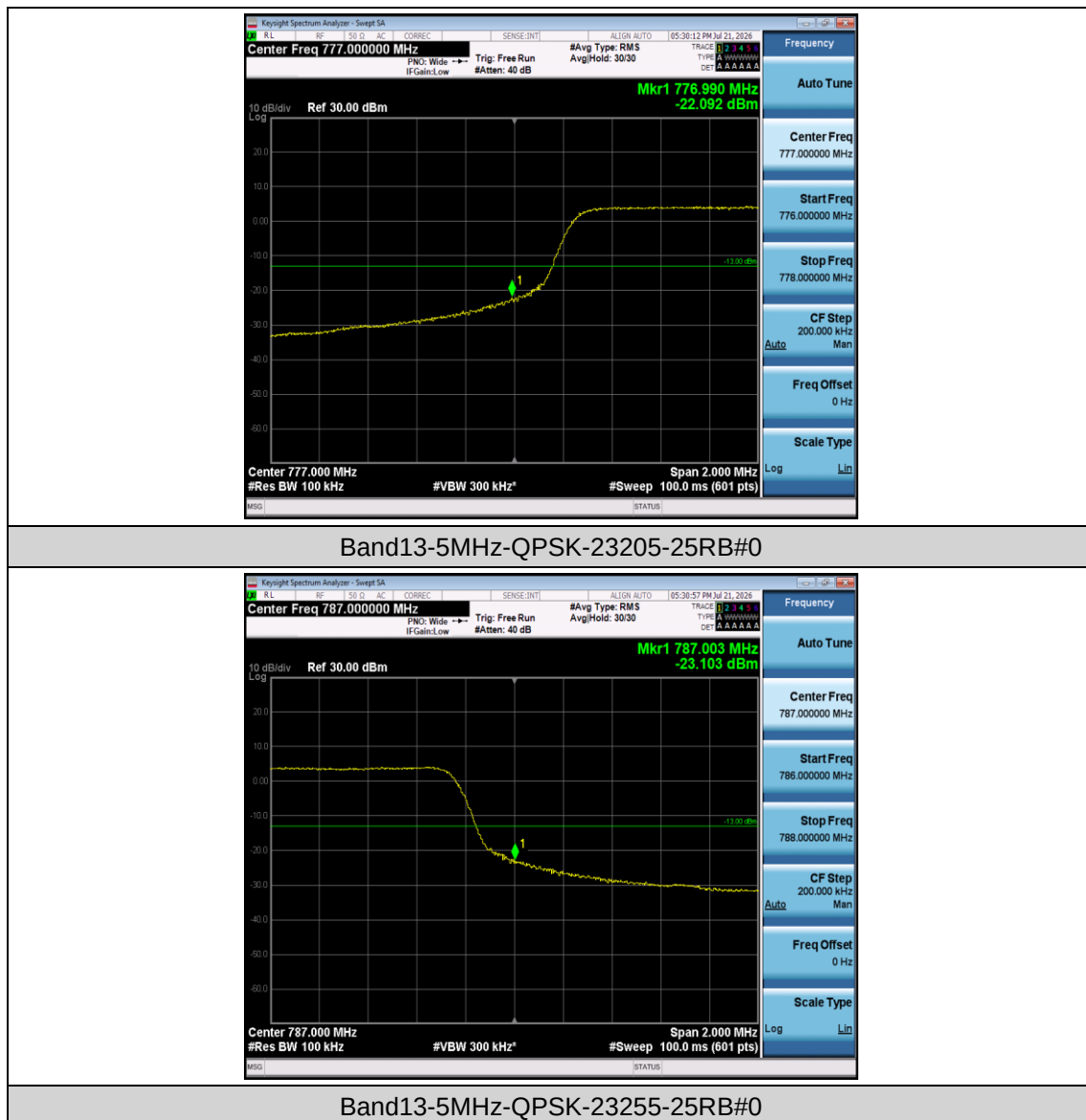
Band13-10MHz-QPSK-23230-50RB#0

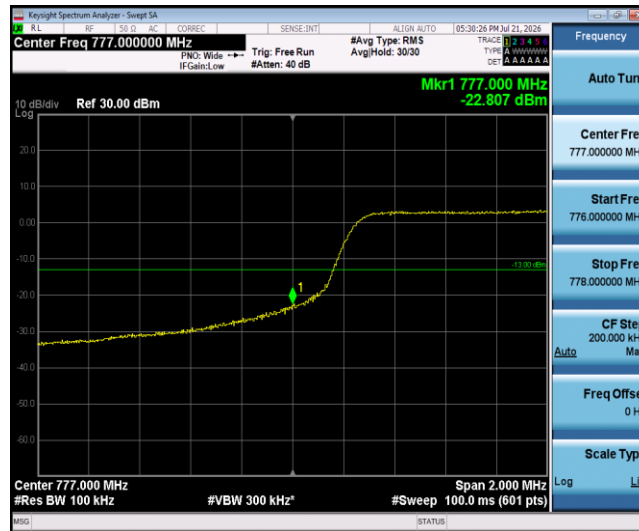
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-22.09	PASS
Band13	5MHz	QPSK	23255	25RB#0	-23.10	PASS
Band13	5MHz	16QAM	23205	25RB#0	-22.81	PASS
Band13	5MHz	16QAM	23255	25RB#0	-24.00	PASS
Band13	10MHz	QPSK	23230	50RB#0	-25.87,-27.39	PASS

Test Graphs

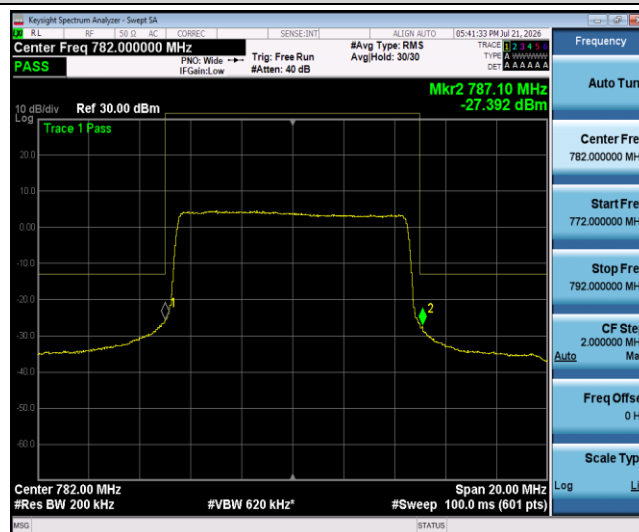




Band13-5MHz-16QAM-23205-25RB#0



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



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

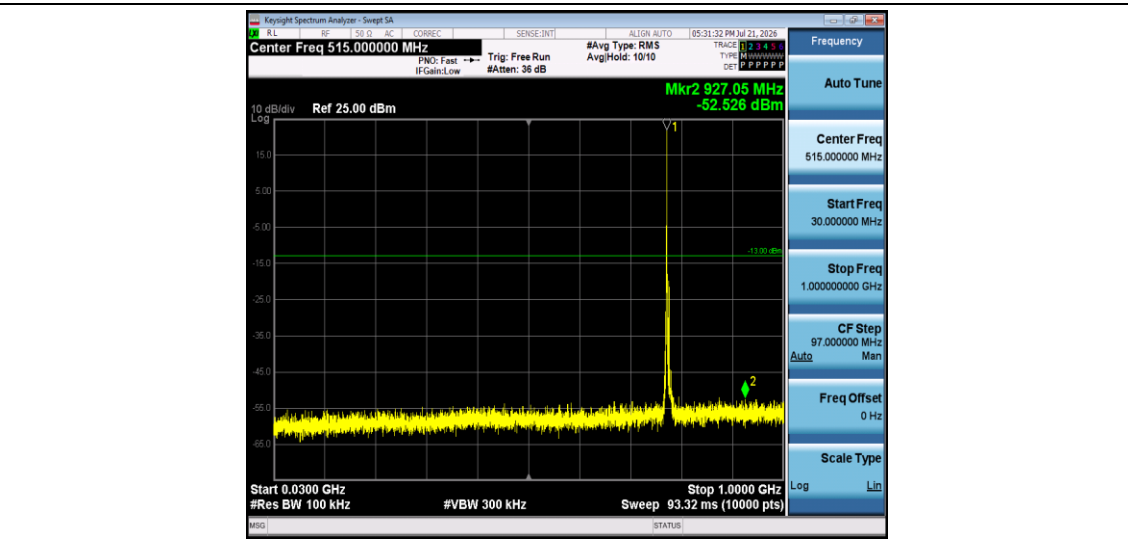
Appendix E: Conducted Spurious Emission

Test Result

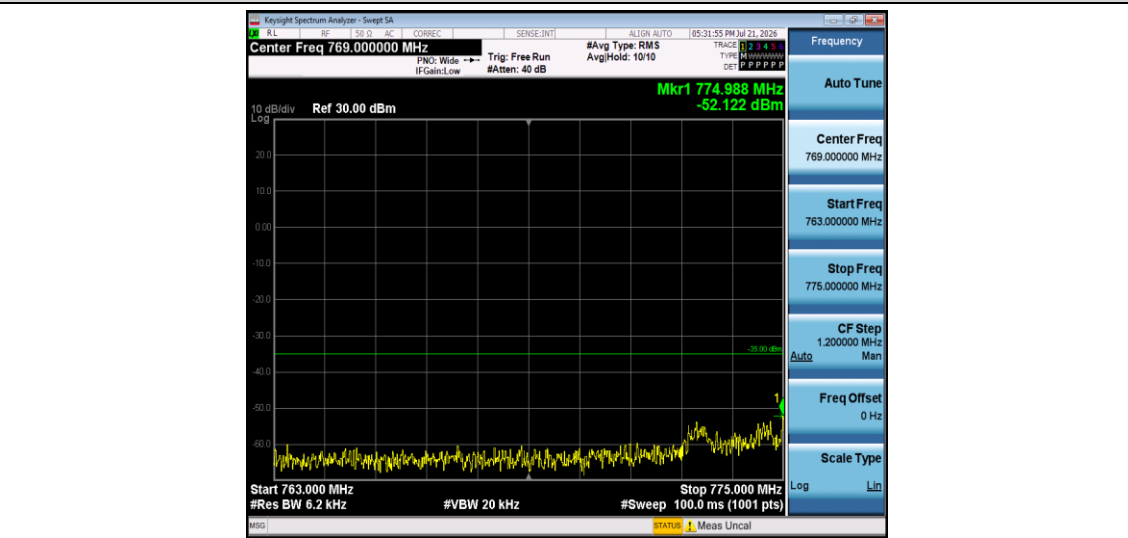
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-52.53	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:763~775MHz	-52.12	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:793~805MHz	-60.45	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-34.53	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:1559~1610MHz	-53.72	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-51.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-57.62	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-59.04	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-34.17	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-51.75	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-52.14	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:763~775MHz	-59.49	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:793~805MHz	-59.45	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-34.68	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:1559~1610MHz	-52.3	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-52.08	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:763~775MHz	-53.83	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:793~805MHz	-59.12	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-33.93	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-54.21	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-52.47	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-58.86	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-59.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-33.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-54.45	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-50.42	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-59.1	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-59.84	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-34.12	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:1559~1610MHz	-51.75	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-50.99	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-53.05	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-54.51	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-34.25	PASS

Band13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-50.36	PASS
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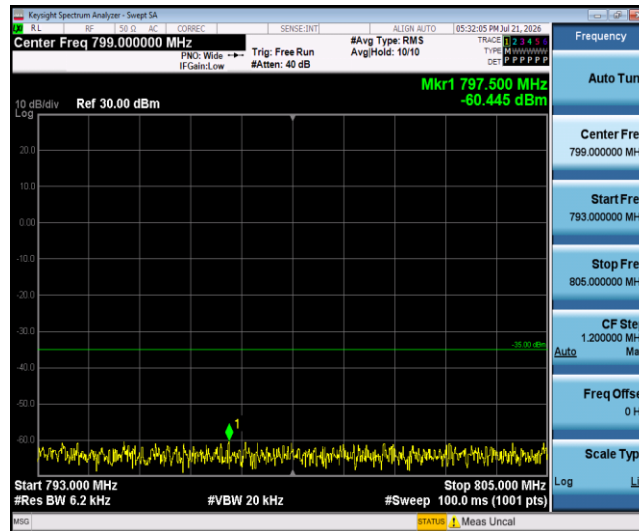
Test Graphs



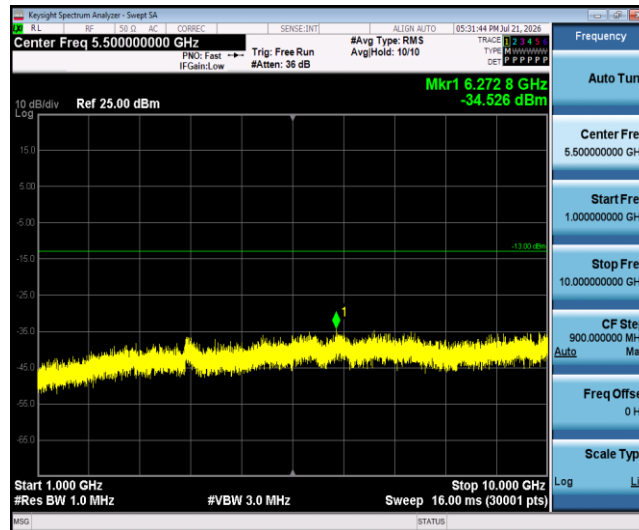
Band13-5MHz-QPSK-23205-1RB#0-Range1:30~1000MHz



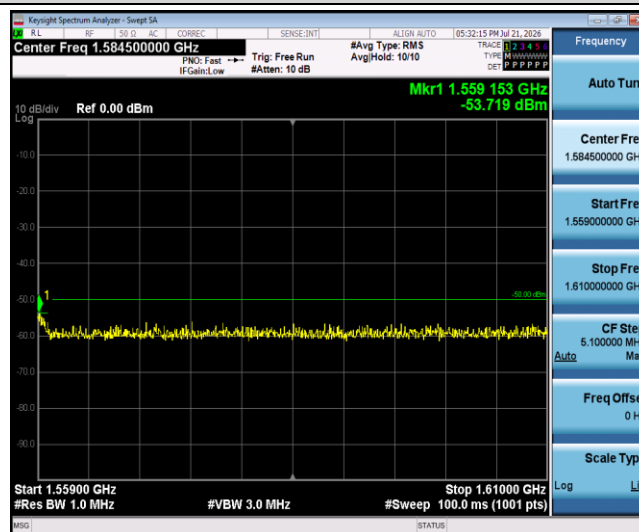
Band13-5MHz-QPSK-23205-1RB#0-Range3:763~775MHz



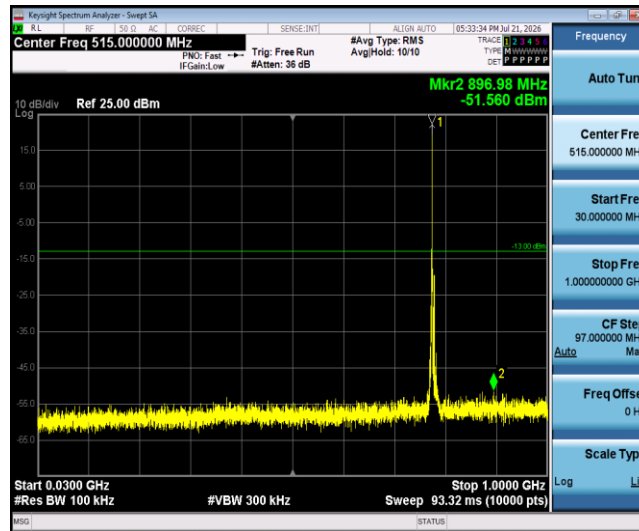
Band13-5MHz-QPSK-23205-1RB#0-Range4:793~805MHz



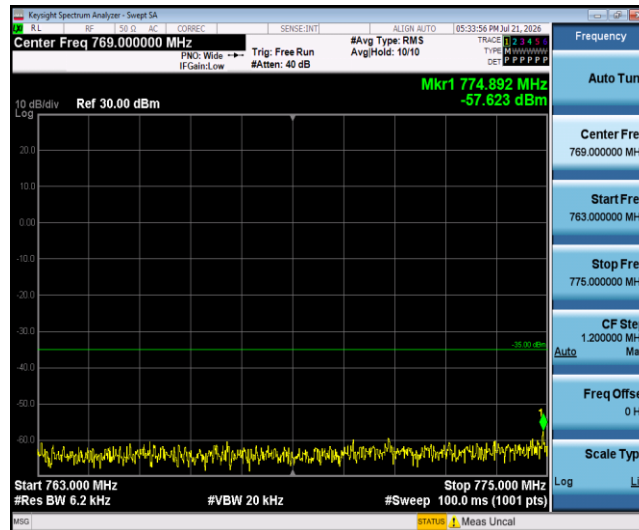
Band13-5MHz-QPSK-23205-1RB#0-Range2:1000~10000MHz



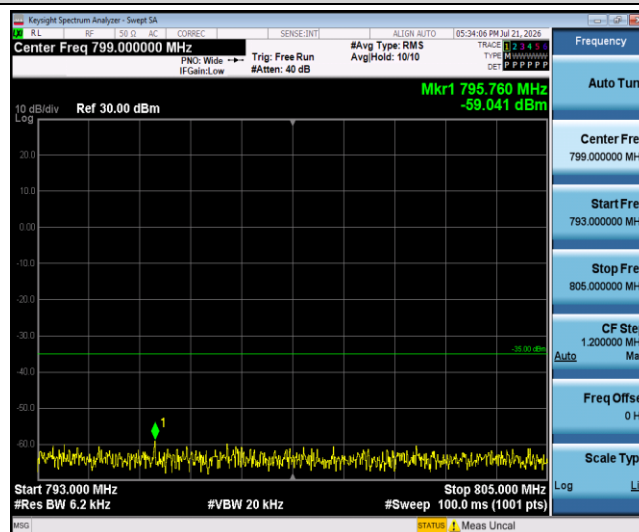
Band13-5MHz-QPSK-23205-1RB#0-Range5:1559~1610MHz



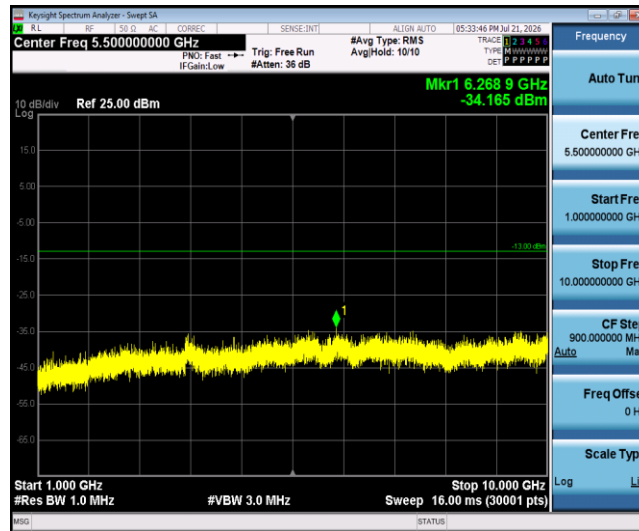
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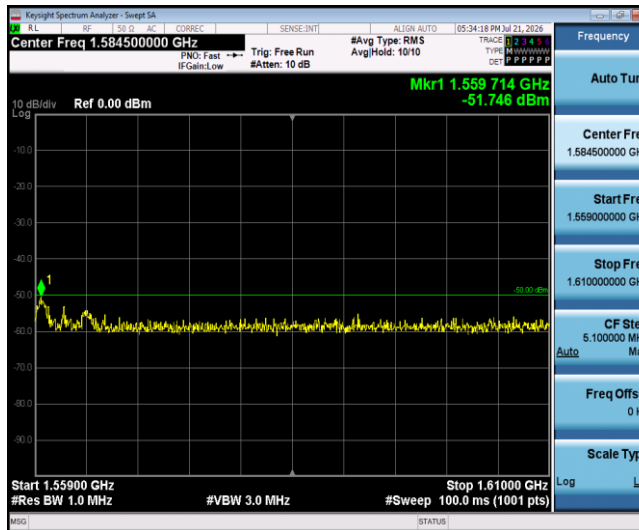
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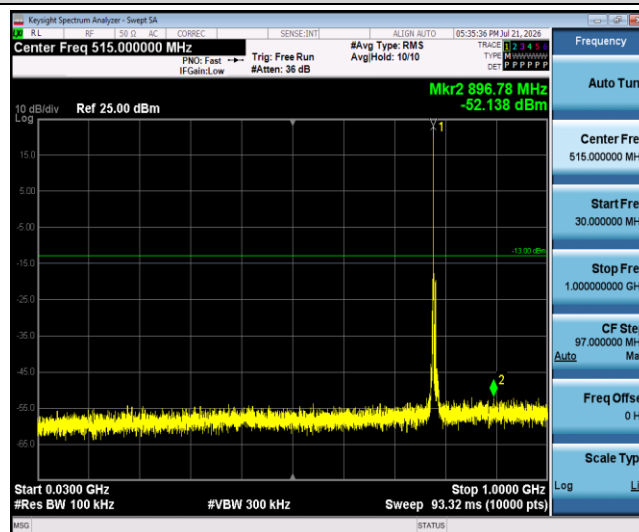
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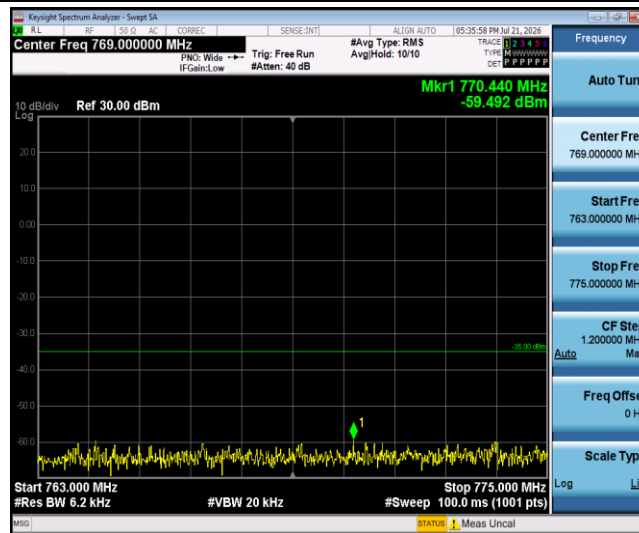
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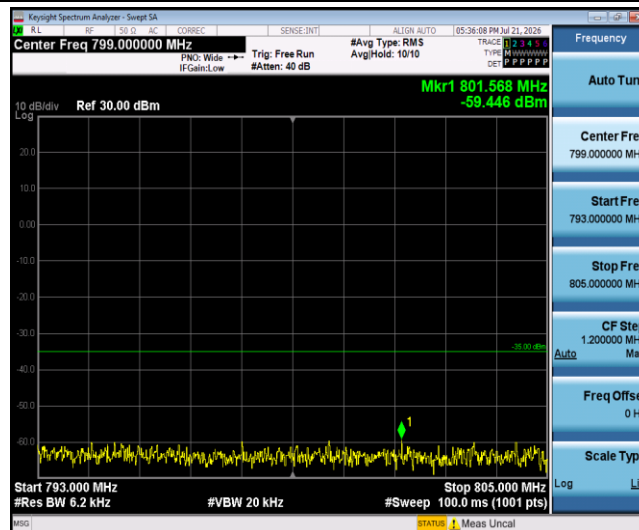
Band13-5MHz-QPSK-23230-1RB#0-Range5:1559~1610MHz



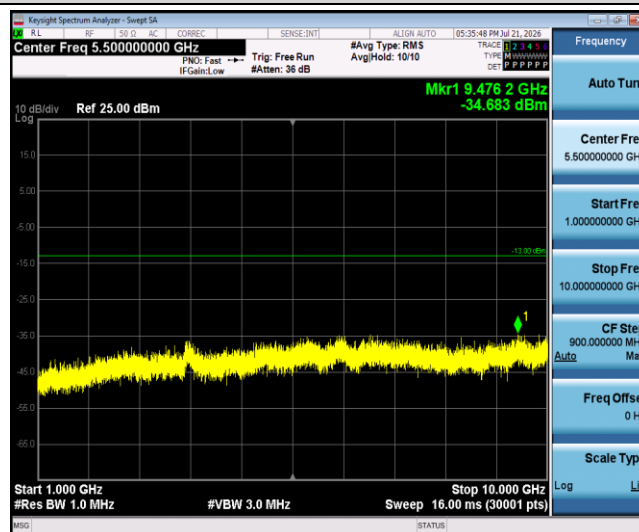
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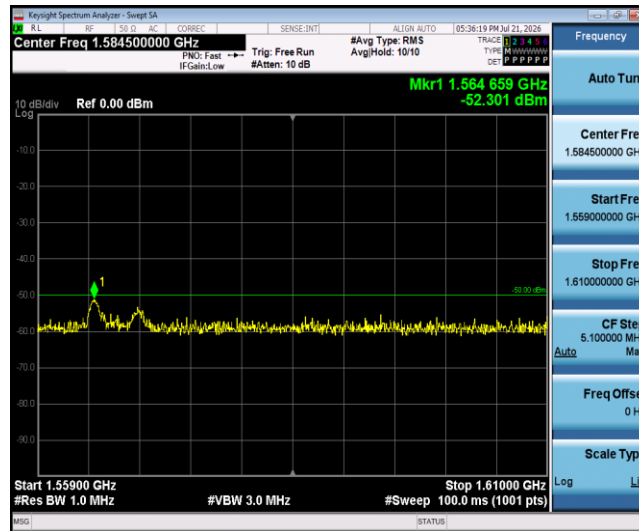
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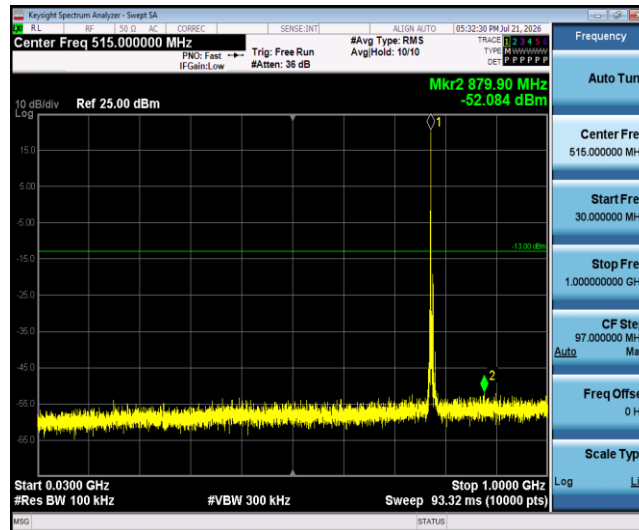
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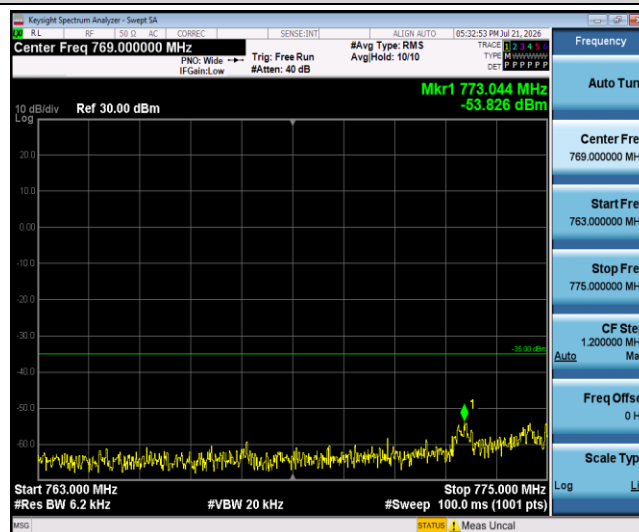
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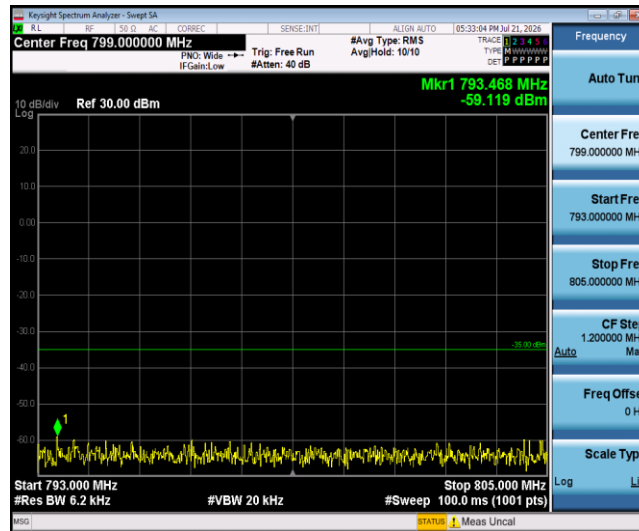
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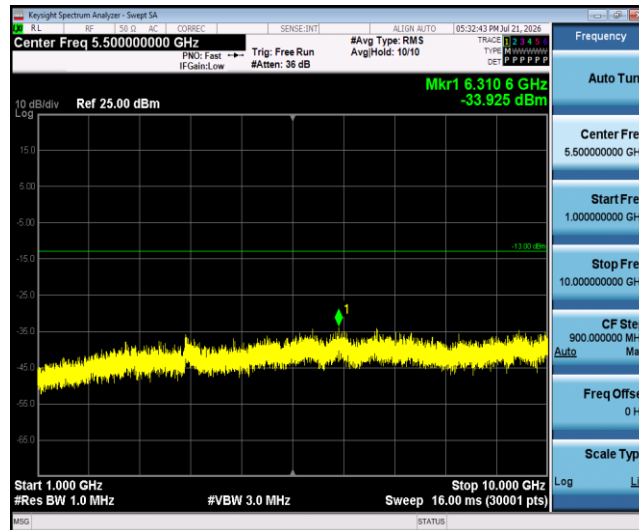
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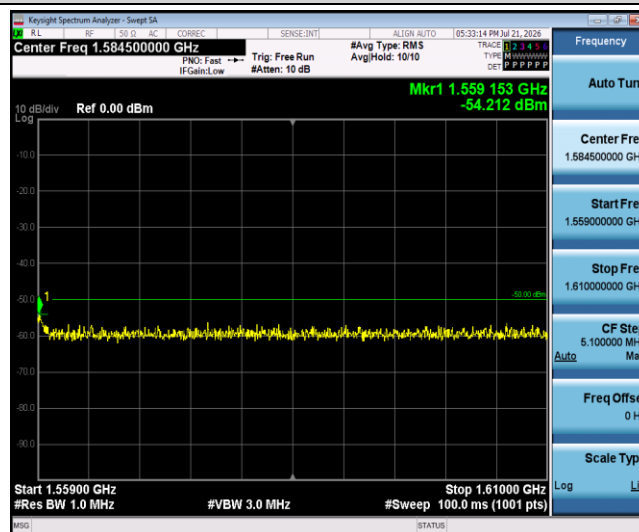
Band13-5MHz-16QAM-23205-1RB#0-Range3:763~775MHz



Band13-5MHz-16QAM-23205-1RB#0-Range4:793~805MHz



Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23205-1RB#0-Range5:1559~1610MHz