Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Gain (dBm)	ERP (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.05	2	22.90	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.51	2	23.36	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.33	2	23.18	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.22	2	22.07	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.23	2	22.08	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.30	2	22.15	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.22	2	22.07	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.39	2	23.24	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.31	2	23.16	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.98	2	22.83	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.25	2	22.10	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.21	2	22.06	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.09	2	21.94	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.16	2	22.01	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.34	2	23.19	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.19	2	23.04	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.25	2	23.10	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.04	2	21.89	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.08	2	21.93	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.04	2	21.89	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.03	2	21.88	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.18	2	22.03	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.81	2	22.66	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.46	2	22.31	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.24	2	21.09	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.24	2	21.09	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.32	2	21.17	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.35	2	21.20	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.42	2	22.27	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.32	2	22.17	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.05	2	21.90	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.24	2	21.09	PASS

Band13	5MHz	16QAM	23230	12RB#6	21.37	2	21.22	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.24	2	21.09	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.21	2	21.06	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.23	2	22.08	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.15	2	22.00	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.25	2	22.10	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.10	2	20.95	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.11	2	20.96	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.07	2	20.92	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.10	2	20.95	PASS

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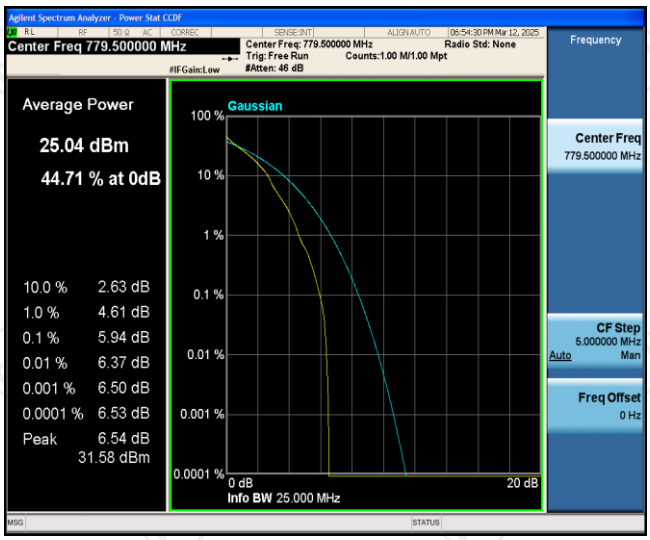
Appendix B: Peak-to-Average Ratio(CCDF)

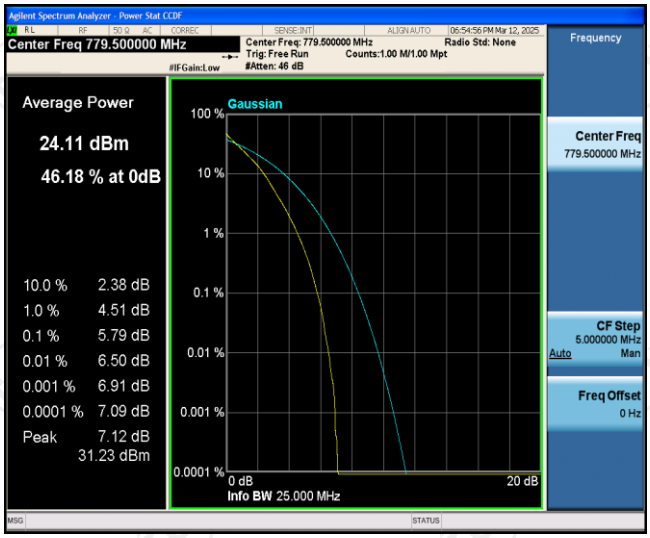
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	5.94	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.79	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	8.37	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.79	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.53	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.88	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	6.02	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.42	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	6.16	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.47	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	6.27	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.47	13	PASS

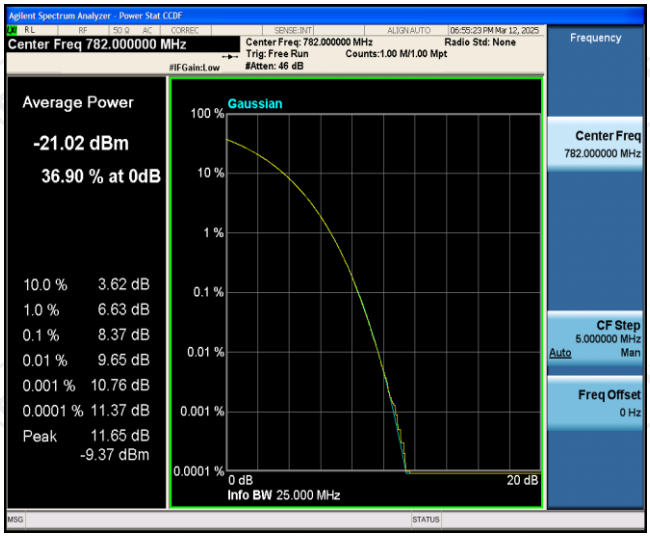
Test Graphs



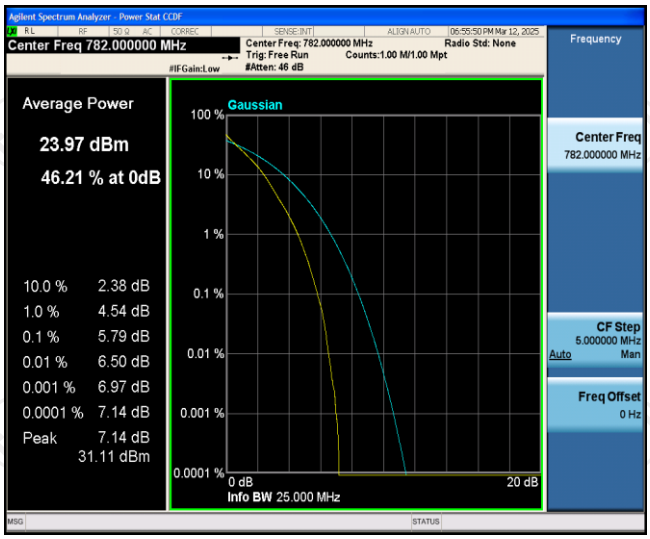
Band13-5MHz-QPSK-23205-1RB#0



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



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



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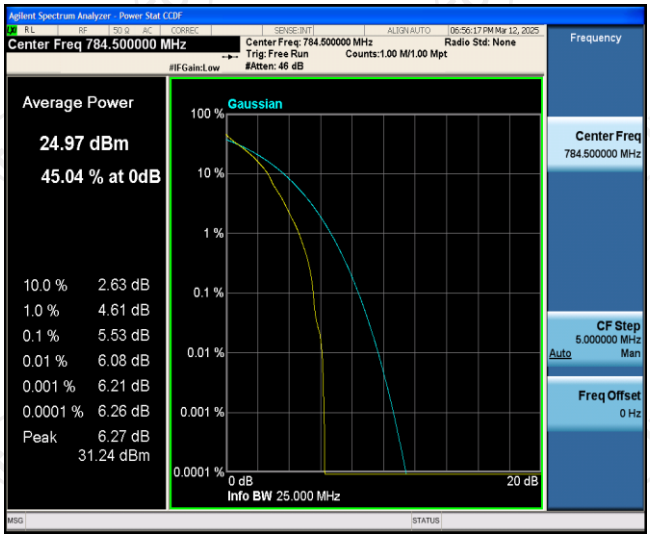
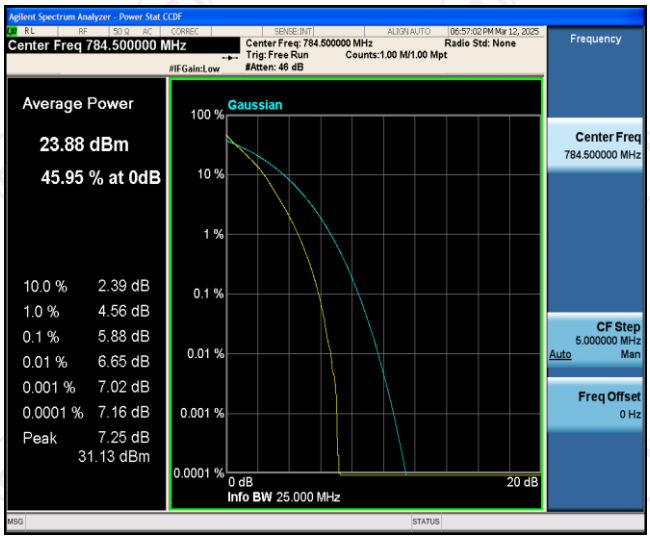
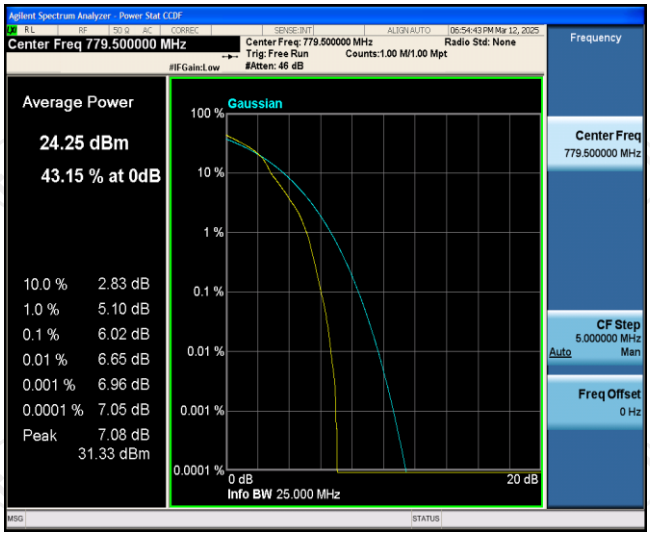


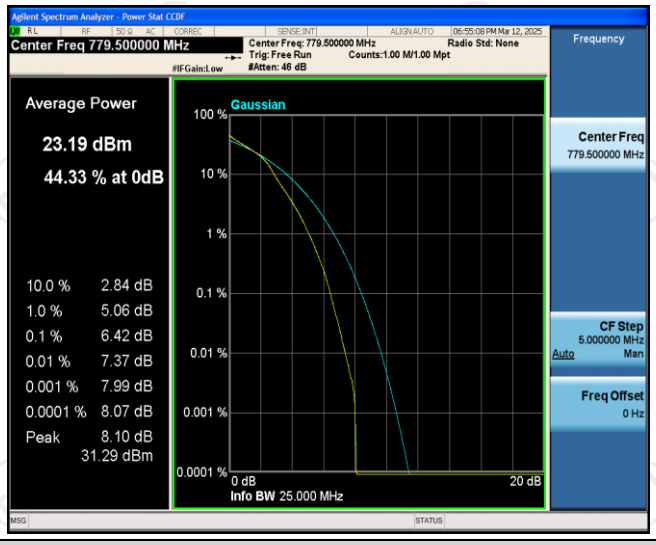
Band13-5MHz-QPSK-23255-1RB#0



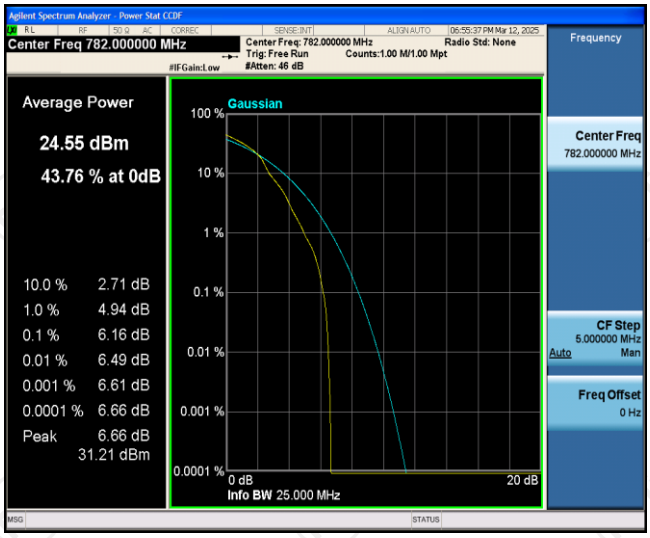
Band13-5MHz-QPSK-23255-25RB#0



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



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



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

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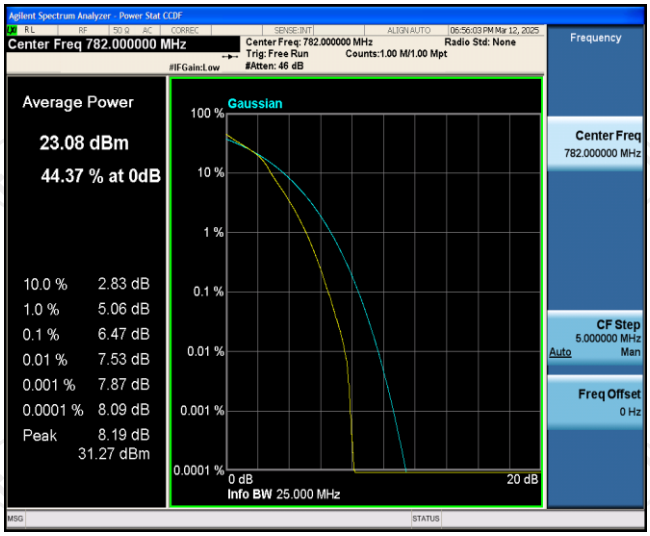
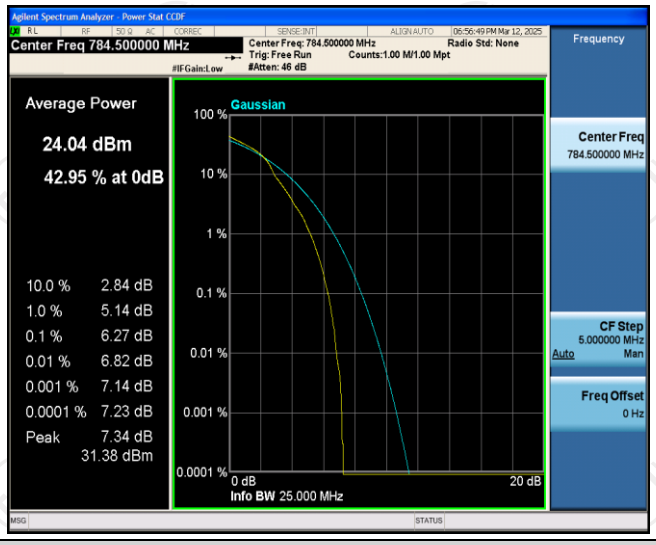
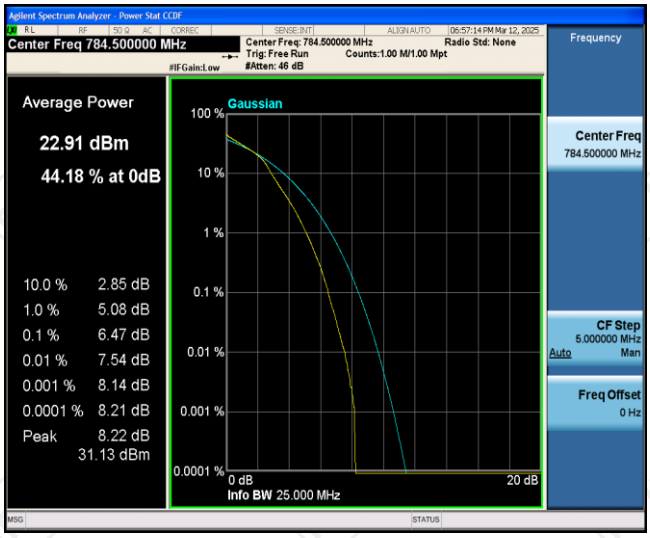


Band13-5MHz-16QAM-23230-25RB#0



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



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

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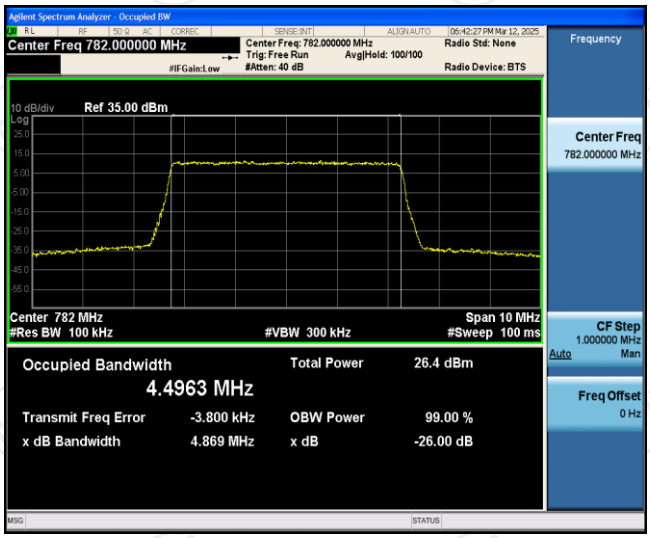
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5001	4.819	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4963	4.869	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4975	4.834	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4968	4.802	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5015	4.831	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4932	4.861	PASS

Test Graphs

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

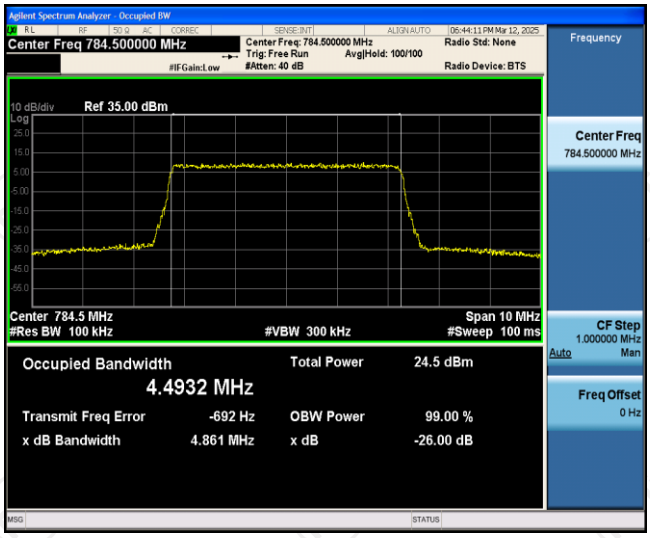


Band13-5MHz-QPSK-23230-25RB#0

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

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

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



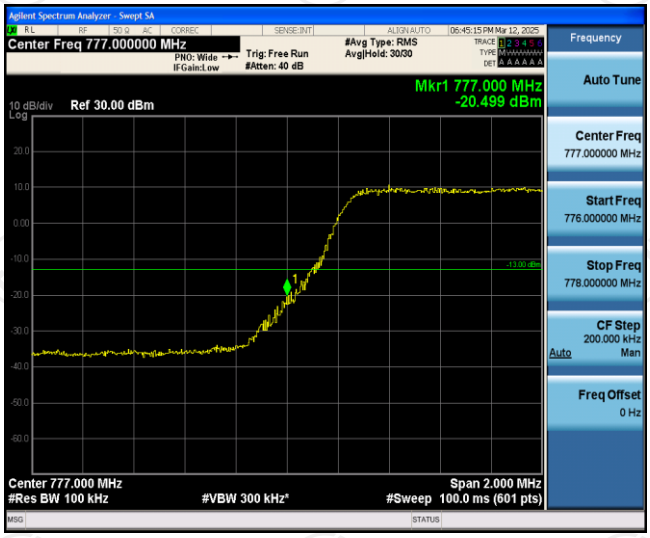
Band13-5MHz-16QAM-23255-25RB#0

Appendix D: Band Edge

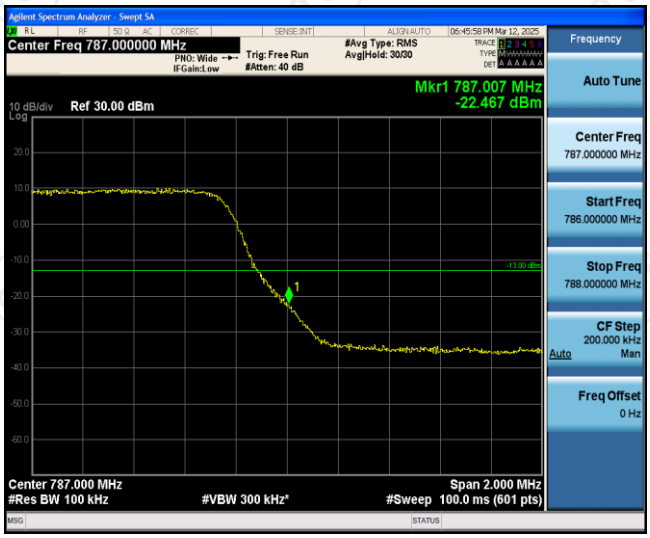
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-20.50	PASS
Band13	5MHz	QPSK	23255	25RB#0	-22.47	PASS
Band13	5MHz	16QAM	23205	25RB#0	-23.05	PASS
Band13	5MHz	16QAM	23255	25RB#0	-23.19	PASS

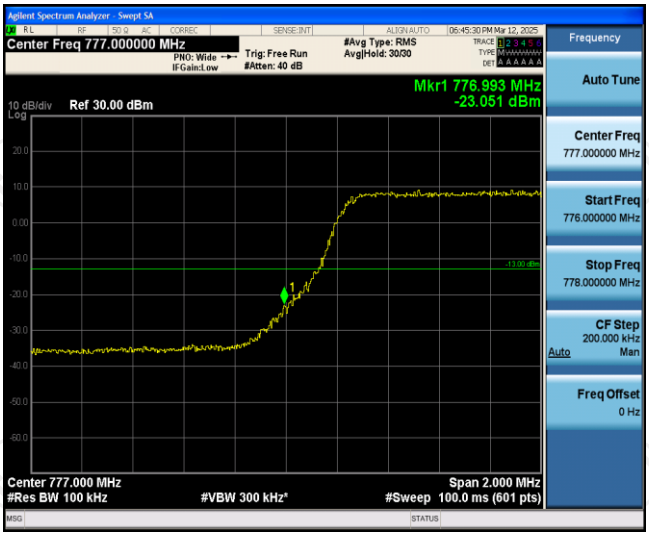
Test Graphs



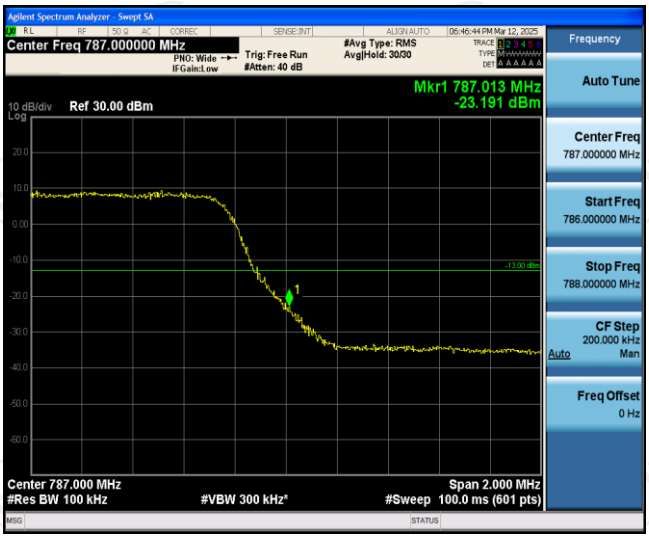
Band13-5MHz-QPSK-23205-25RB#0



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



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



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

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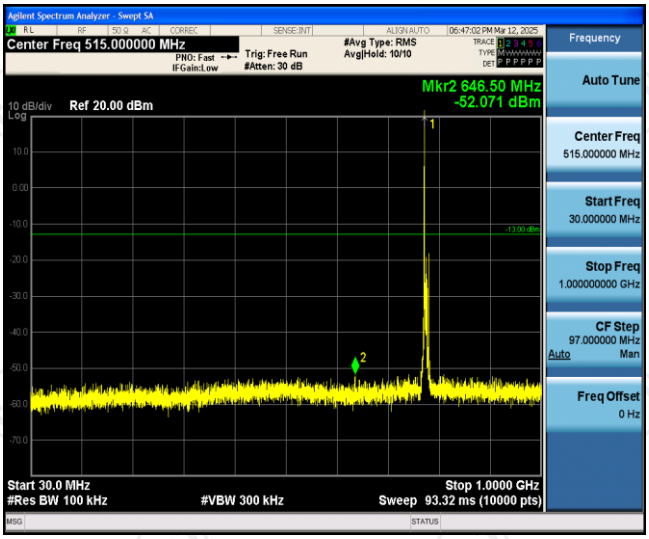
Appendix E: Conducted Spurious Emission

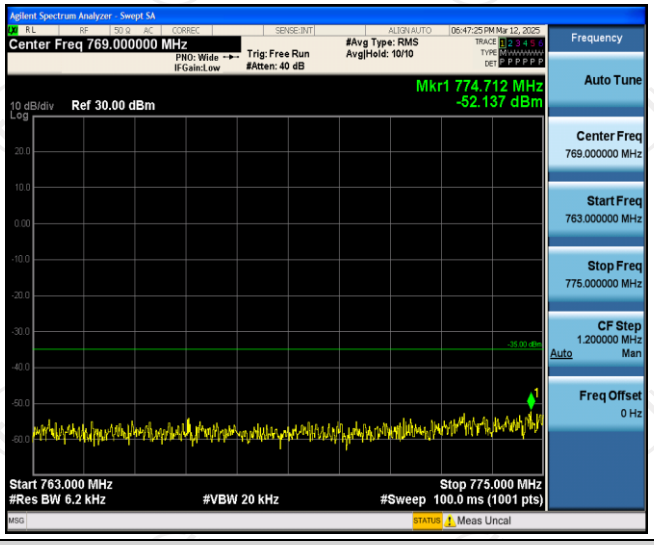
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-52.07	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:763~775MHz	-52.14	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:793~805MHz	-53.8	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-33.61	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:1559~1610MHz	-50.93	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-51.57	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-51.17	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-53.4	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-33.43	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-61.42	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-51.47	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:763~775MHz	-51.68	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:793~805MHz	-53.15	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-33.7	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:1559~1610MHz	-61.79	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-51.09	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:763~775MHz	-52.39	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:793~805MHz	-53.31	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-33.74	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-51.25	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-51.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-51.66	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-53.36	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-34.85	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-19.61	FAIL
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-51.32	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-50.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-54.62	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-33.94	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:1559~1610MHz	-61.79	PASS

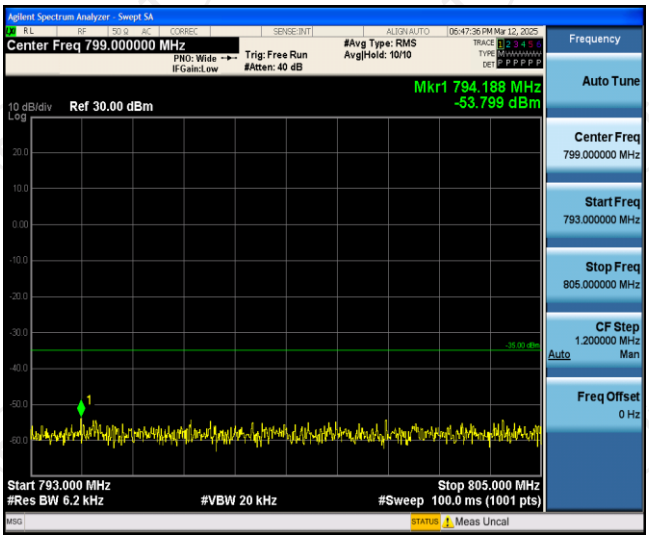
Test Graphs



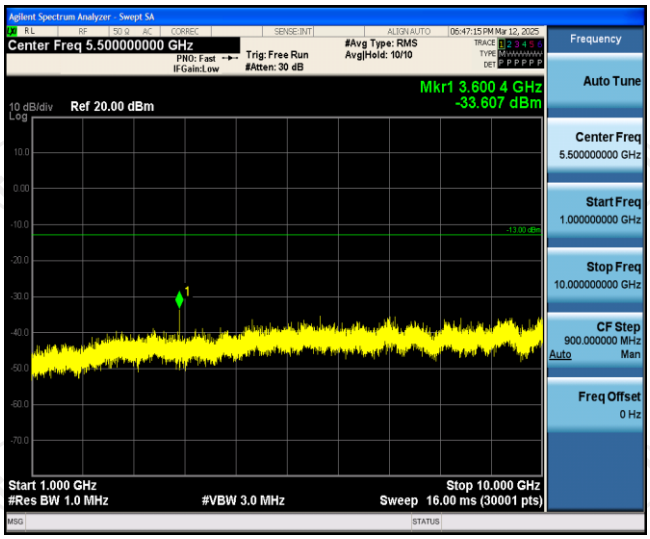
Band13-5MHz-QPSK-23205-1RB#0-Range1:30~1000MHz



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



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



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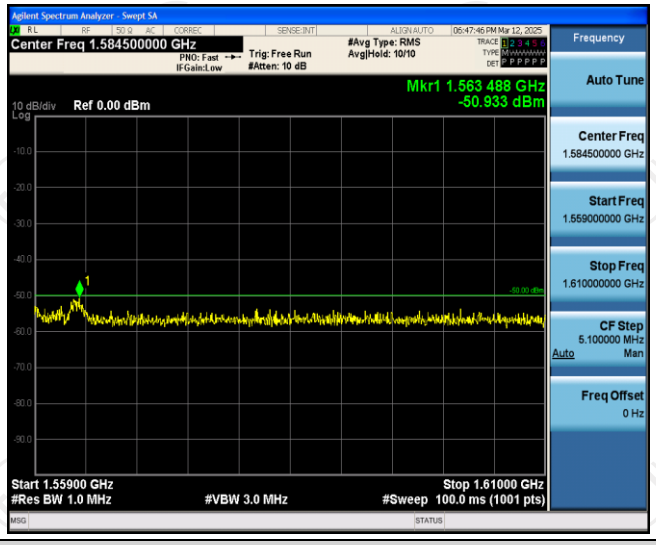
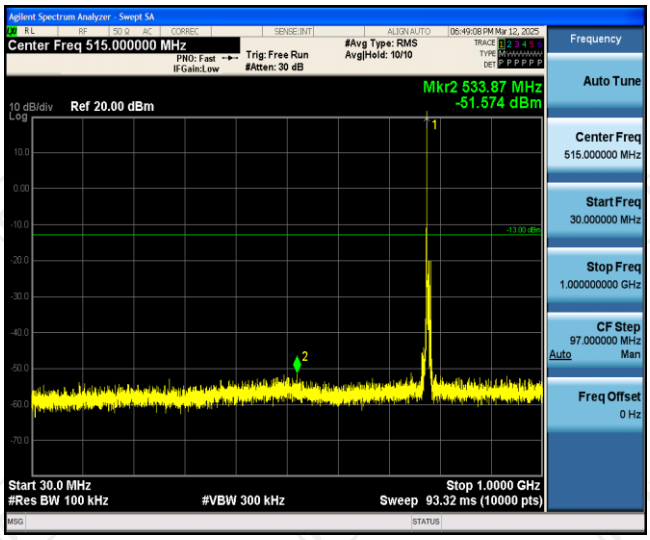


Band13-5MHz-QPSK-23205-1RB#0-Range5:1559~1610MHz



Band13-5MHz-QPSK-23230-1RB#0-Range1:30~1000MHz

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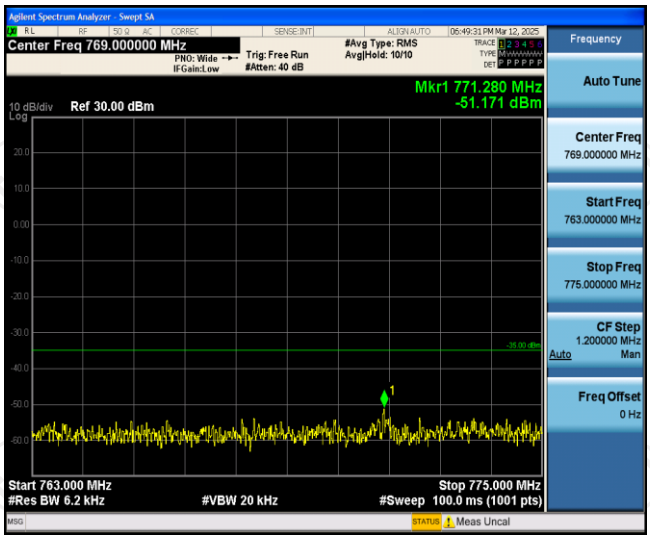
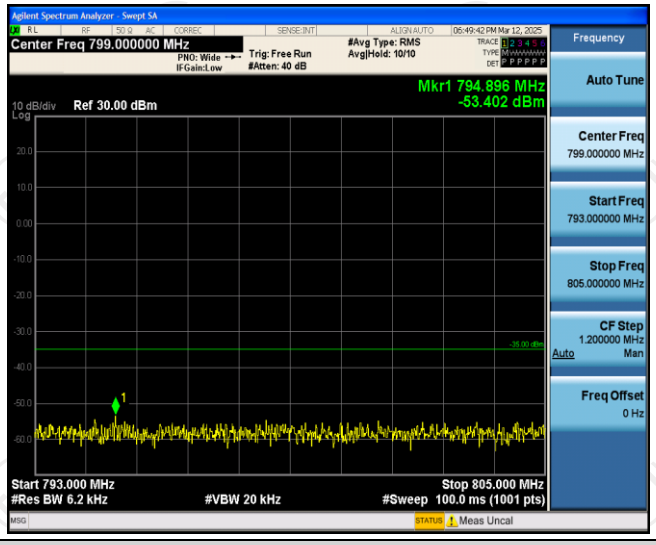
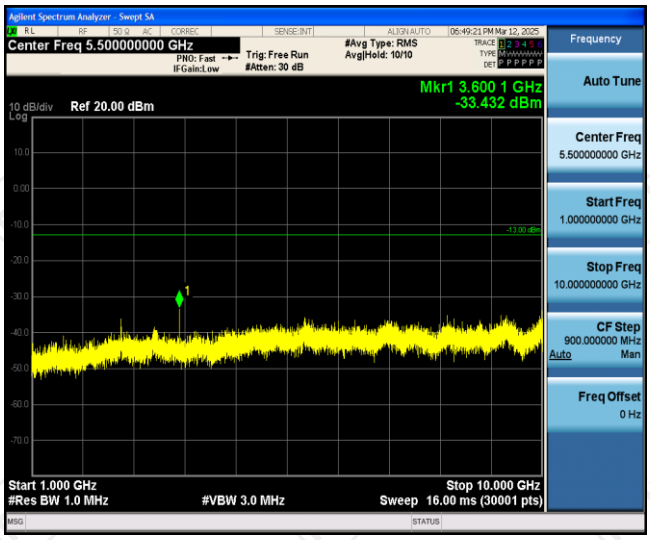


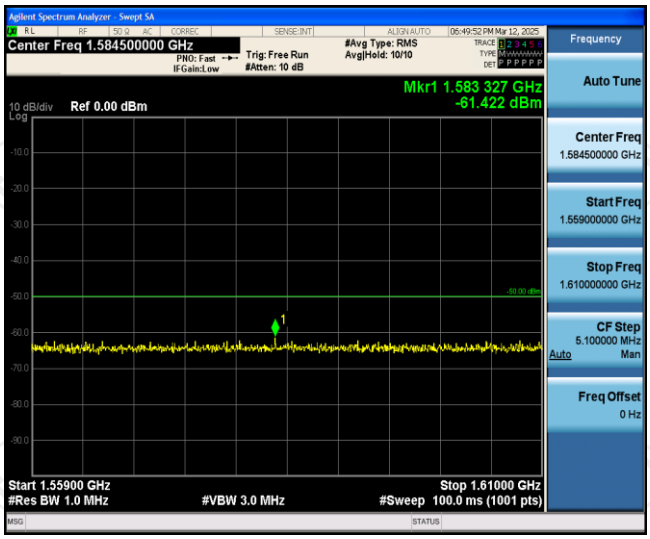
Band13-5MHz-QPSK-23230-1RB#0-Range3:763~775MHz



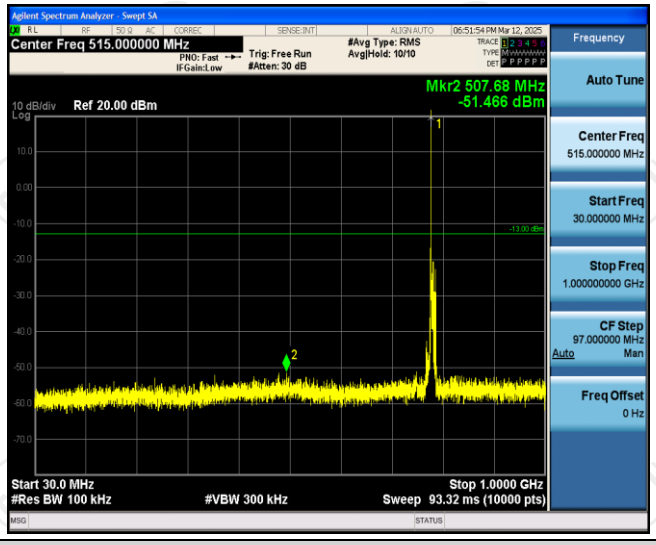
Band13-5MHz-QPSK-23230-1RB#0-Range4:793~805MHz



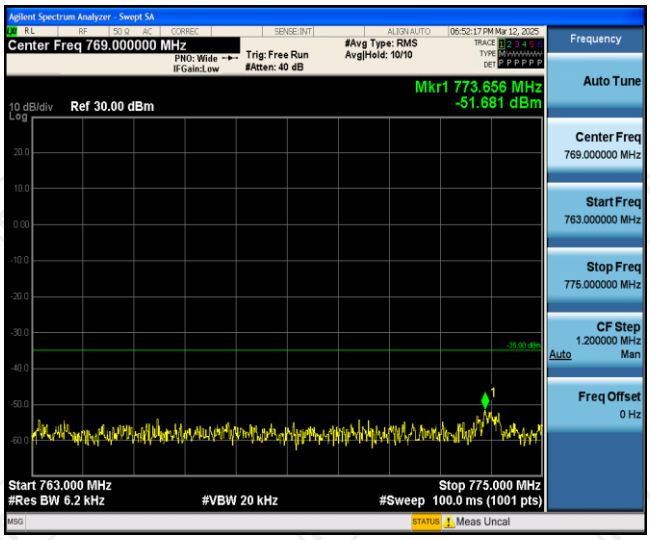
Band13-5MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



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



Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz



Band13-5MHz-QPSK-23255-1RB#0-Range3:763~775MHz

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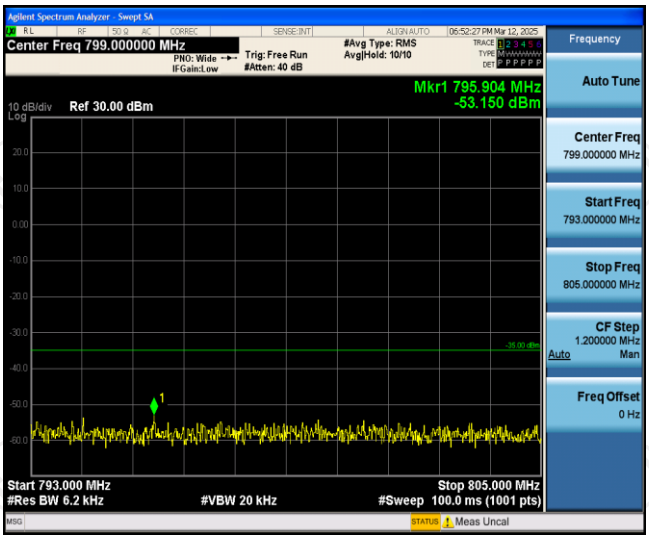
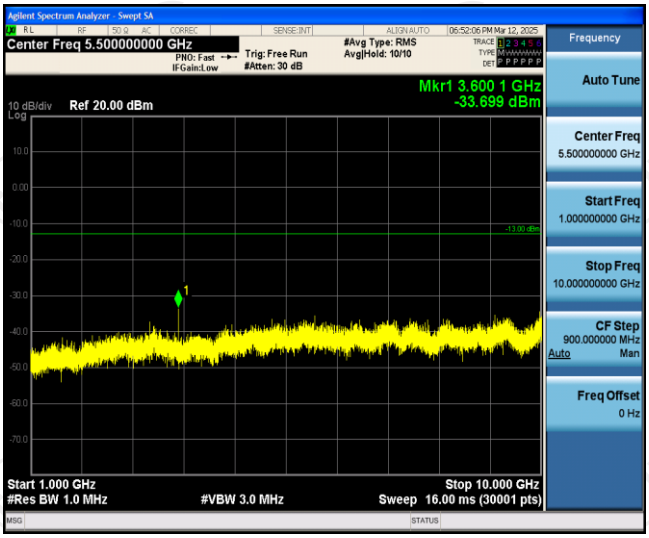


Band13-5MHz-QPSK-23255-1RB#0-Range4:793~805MHz



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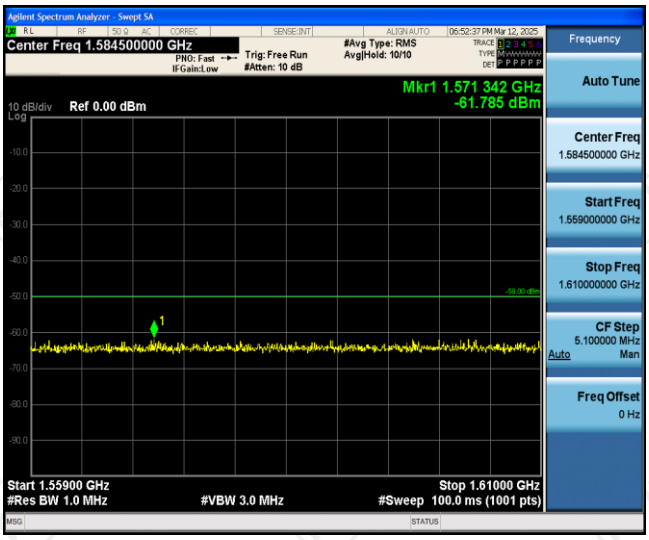
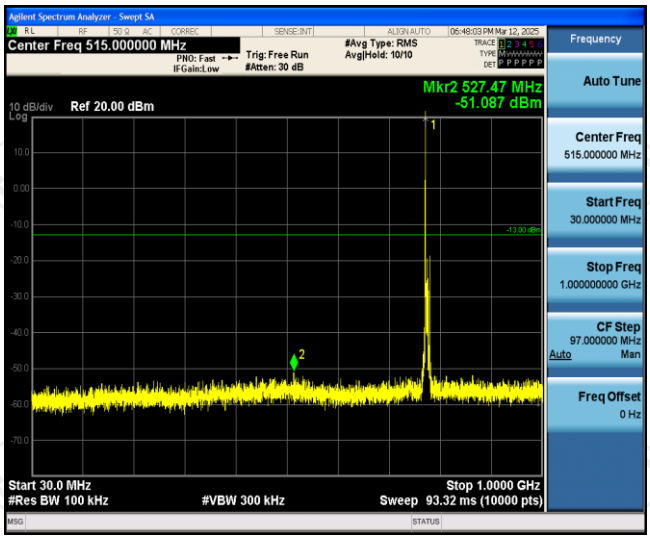
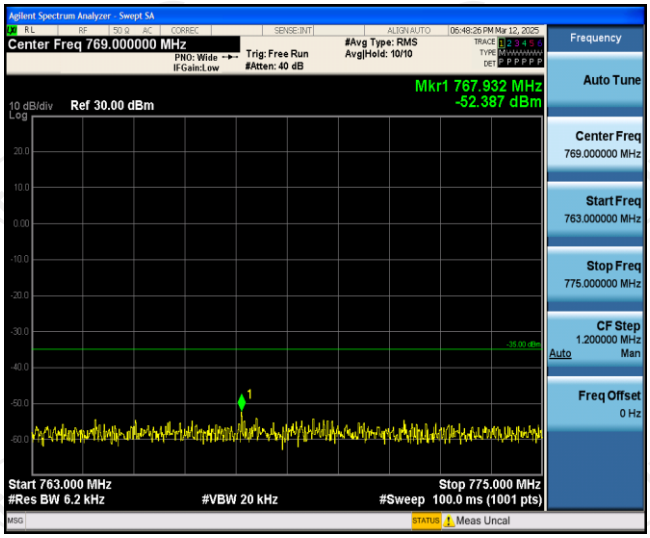


Band13-5MHz-QPSK-23255-1RB#0-Range5:1559~1610MHz

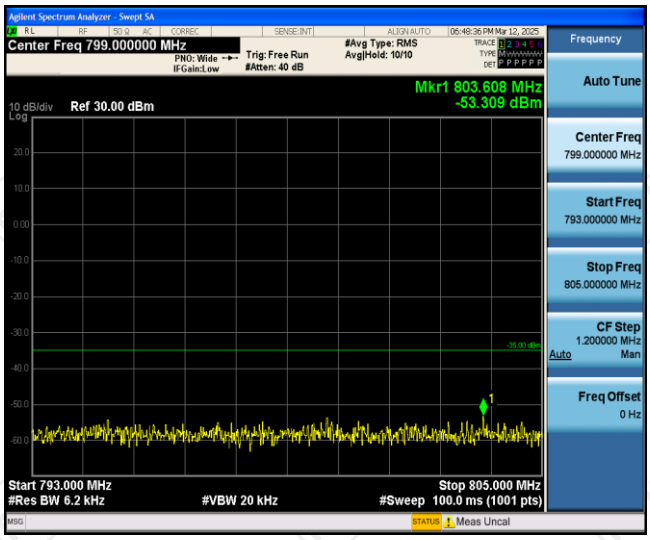
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Band13-5MHz-16QAM-23205-1RB#0-Range1:30~1000MHz

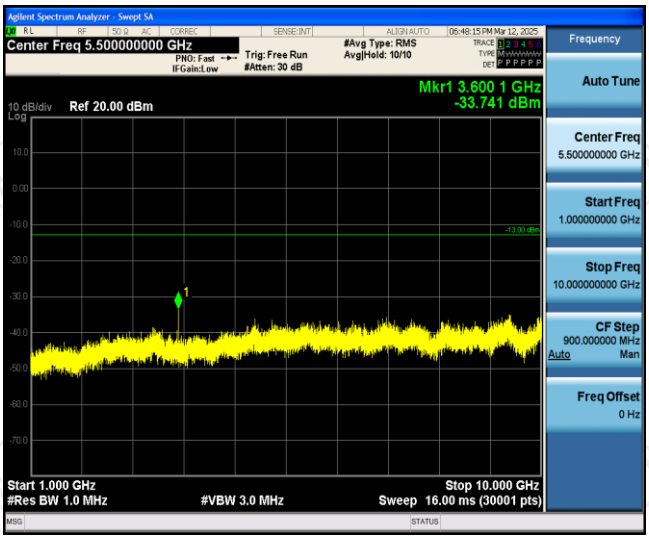


Band13-5MHz-16QAM-23205-1RB#0-Range3:763~775MHz

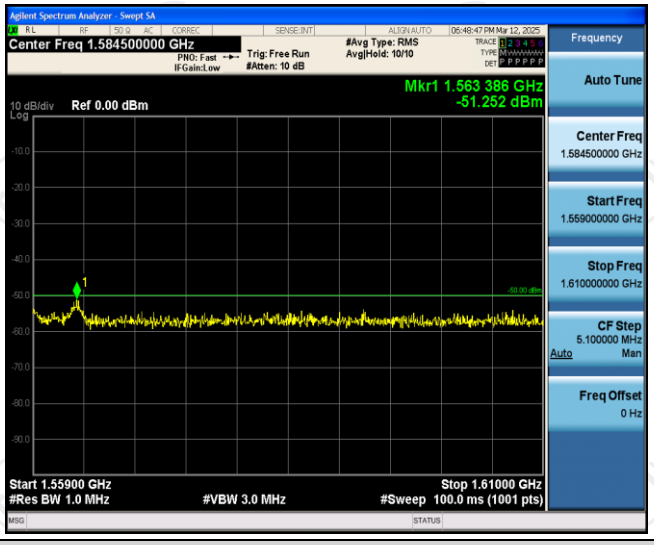


Band13-5MHz-16QAM-23205-1RB#0-Range4:793~805MHz

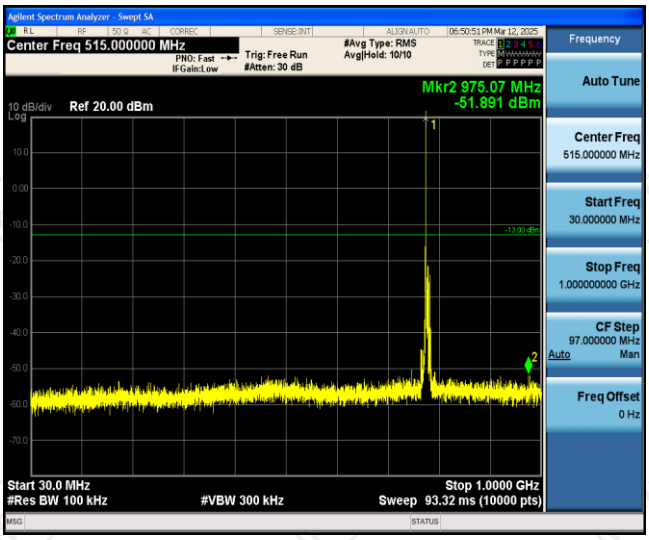
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



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

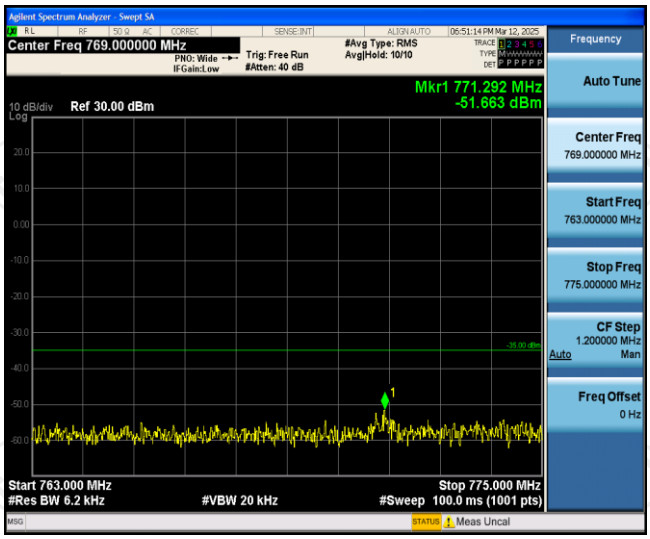


Band13-5MHz-16QAM-23205-1RB#0-Range5:1559~1610MHz

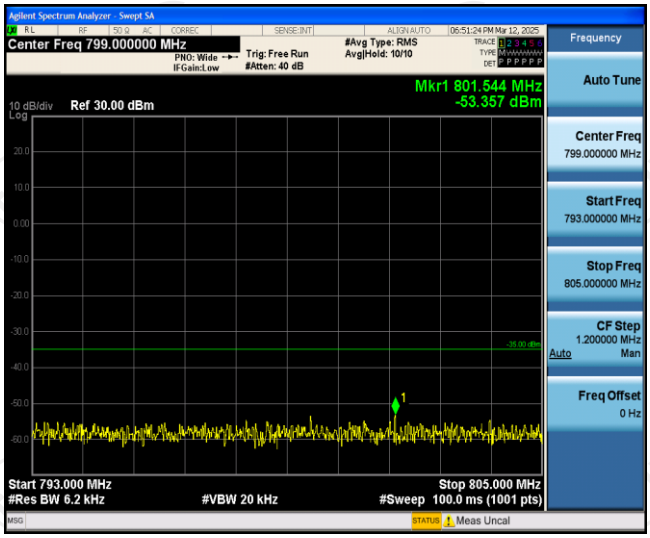


Band13-5MHz-16QAM-23230-1RB#0-Range1:30~1000MHz

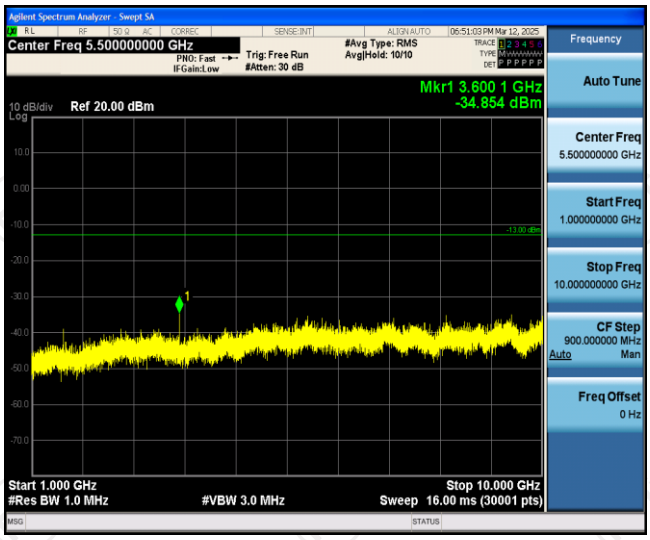
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



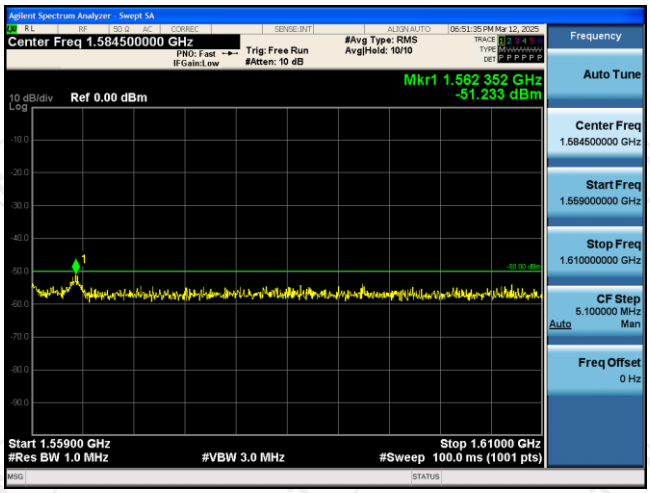
Band13-5MHz-16QAM-23230-1RB#0-Range3:763~775MHz



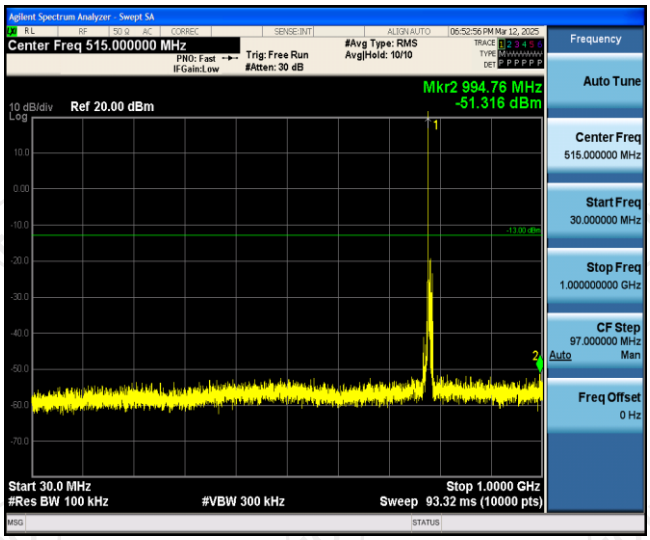
Band13-5MHz-16QAM-23230-1RB#0-Range4:793~805MHz



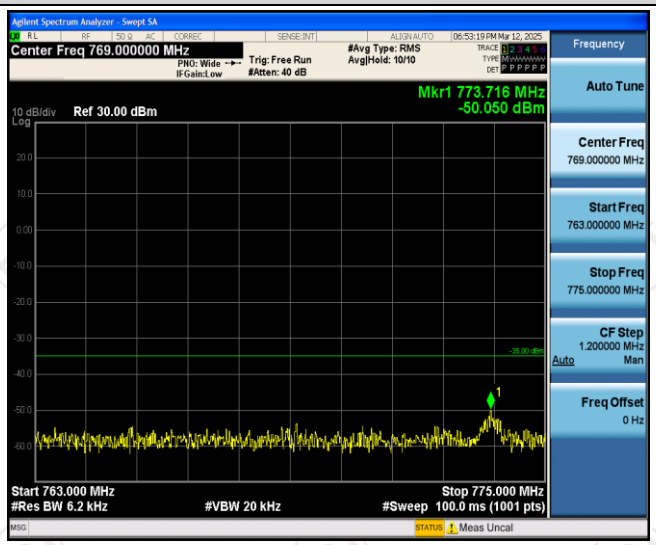
Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



Band13-5MHz-16QAM-23255-1RB#0-Range1:30~1000MHz



Band13-5MHz-16QAM-23255-1RB#0-Range3:763~775MHz

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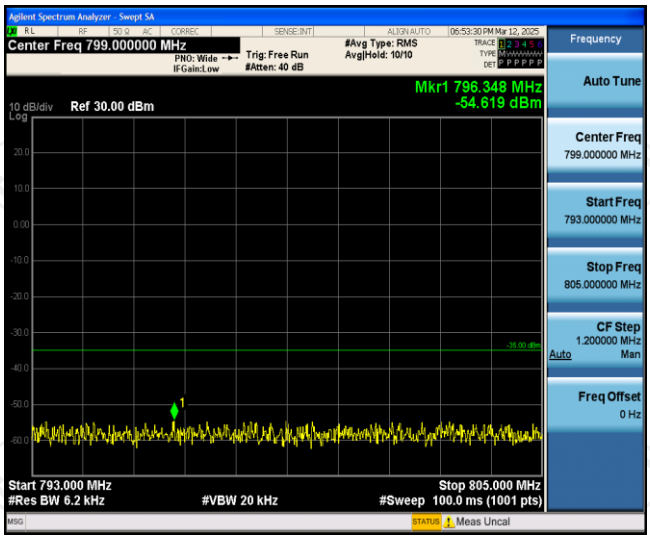
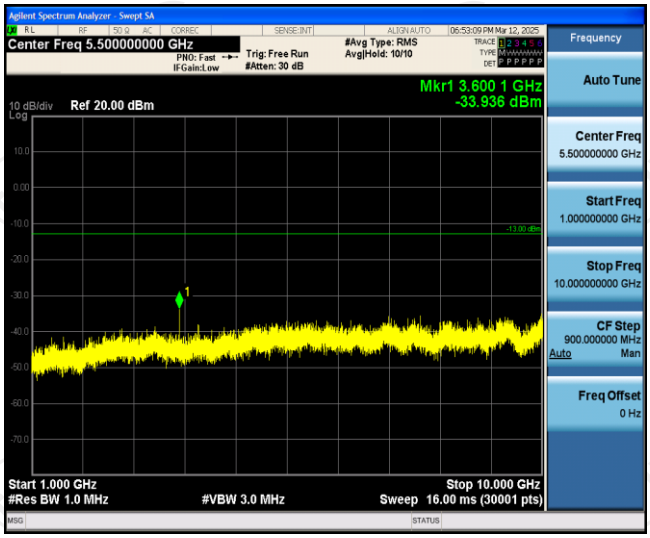
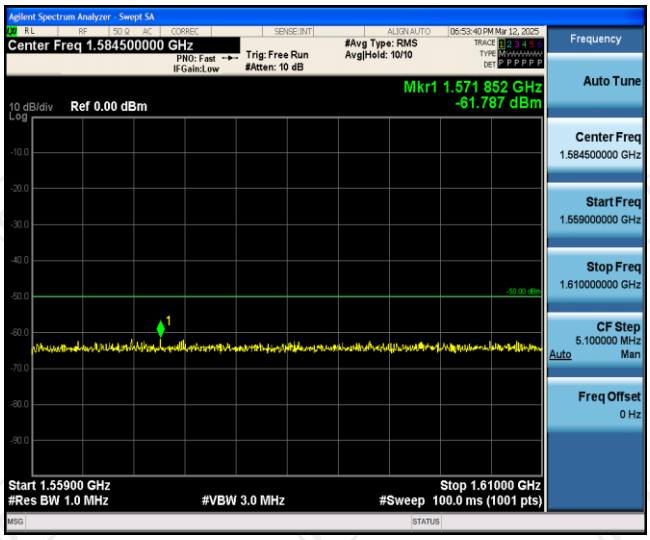


Band13-5MHz-16QAM-23255-1RB#0-Range4:793~805MHz



Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23255-1RB#0-Range5:1559~1610MHz

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Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-25.45	-0.032649	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-20.37	-0.026132	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-7.03	-0.009019	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-21.98	-0.028107	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	7.68	0.009821	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-21.75	-0.027813	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-29.88	-0.038088	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	11.51	0.014672	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-31.30	-0.039898	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-23.67	-0.030366	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-28.48	-0.036536	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-16.88	-0.021655	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	19.83	0.025358	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-16.71	-0.021368	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	15.25	0.019501	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	-28.79	-0.036699	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	-32.39	-0.041287	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	-23.75	-0.030274	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	-11.21	-0.014381	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-5.37	-0.006889	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-24.36	-0.031251	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-6.81	-0.008736	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-12.91	-0.016562	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	-31.62	-0.040435	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-30.75	-0.039322	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-18.85	-0.024105	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-22.77	-0.029118	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-18.35	-0.023465	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-14.20	-0.018101	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	-16.77	-0.021377	±2.5	PASS

Band13	5MHz	QPSK	23255	25RB#0	NV	0	-27.52	-0.035080	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-23.77	-0.030300	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-15.10	-0.019248	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-6.13	-0.007864	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-10.10	-0.012957	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-10.20	-0.013085	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-30.95	-0.039705	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-33.42	-0.042874	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	-17.96	-0.022967	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-24.60	-0.031458	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-26.20	-0.033504	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-19.61	-0.025077	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-30.73	-0.039297	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	-3.42	-0.004359	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	-31.23	-0.039809	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-32.13	-0.040956	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-33.94	-0.043263	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	-32.84	-0.041861	±2.5	PASS