

Appendix for LTE Band 40-2350-2360MHz

Product Name: CSX8

Model No: LGT-08QA-2301

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	24.03	PASS
Band40	5MHz	QPSK	39175	1RB#12	24.06	PASS
Band40	5MHz	QPSK	39175	1RB#24	24.04	PASS
Band40	5MHz	QPSK	39175	12RB#0	22.89	PASS
Band40	5MHz	QPSK	39175	12RB#6	22.88	PASS
Band40	5MHz	QPSK	39175	12RB#13	22.96	PASS
Band40	5MHz	QPSK	39175	25RB#0	22.97	PASS
Band40	5MHz	QPSK	39200	1RB#0	23.60	PASS
Band40	5MHz	QPSK	39200	1RB#12	24.01	PASS
Band40	5MHz	QPSK	39200	1RB#24	23.66	PASS
Band40	5MHz	QPSK	39200	12RB#0	22.90	PASS
Band40	5MHz	QPSK	39200	12RB#6	22.93	PASS
Band40	5MHz	QPSK	39200	12RB#13	23.00	PASS
Band40	5MHz	QPSK	39200	25RB#0	22.96	PASS
Band40	5MHz	QPSK	39225	1RB#0	24.12	PASS
Band40	5MHz	QPSK	39225	1RB#12	24.27	PASS
Band40	5MHz	QPSK	39225	1RB#24	24.14	PASS
Band40	5MHz	QPSK	39225	12RB#0	22.91	PASS
Band40	5MHz	QPSK	39225	12RB#6	22.93	PASS
Band40	5MHz	QPSK	39225	12RB#13	23.03	PASS
Band40	5MHz	QPSK	39225	25RB#0	23.01	PASS
Band40	5MHz	16QAM	39175	1RB#0	23.23	PASS
Band40	5MHz	16QAM	39175	1RB#12	23.33	PASS
Band40	5MHz	16QAM	39175	1RB#24	23.25	PASS
Band40	5MHz	16QAM	39175	12RB#0	21.99	PASS
Band40	5MHz	16QAM	39175	12RB#6	21.96	PASS
Band40	5MHz	16QAM	39175	12RB#13	22.04	PASS
Band40	5MHz	16QAM	39175	25RB#0	21.98	PASS
Band40	5MHz	16QAM	39200	1RB#0	23.24	PASS
Band40	5MHz	16QAM	39200	1RB#12	23.52	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

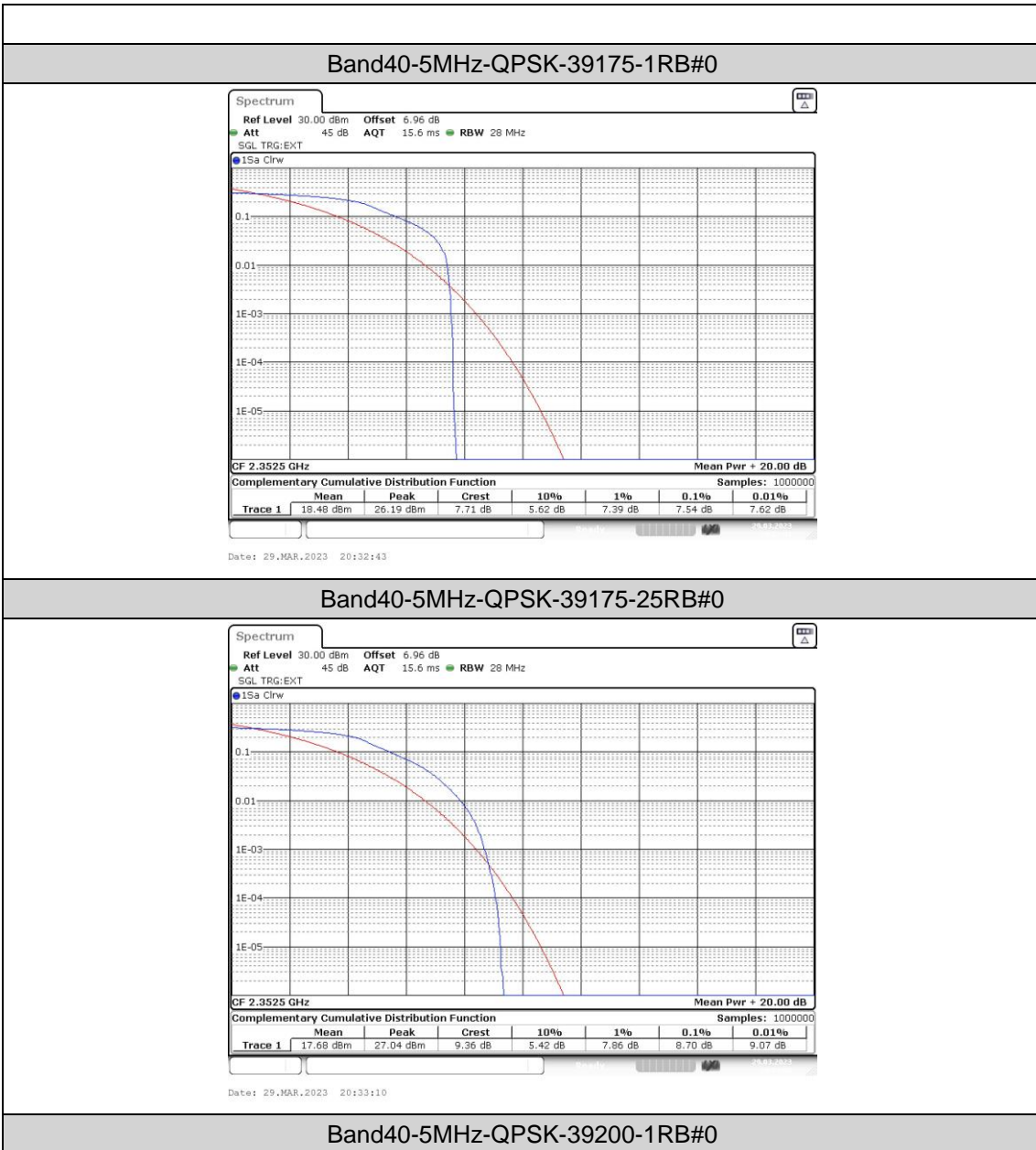
<http://www.waltek.com.cn>

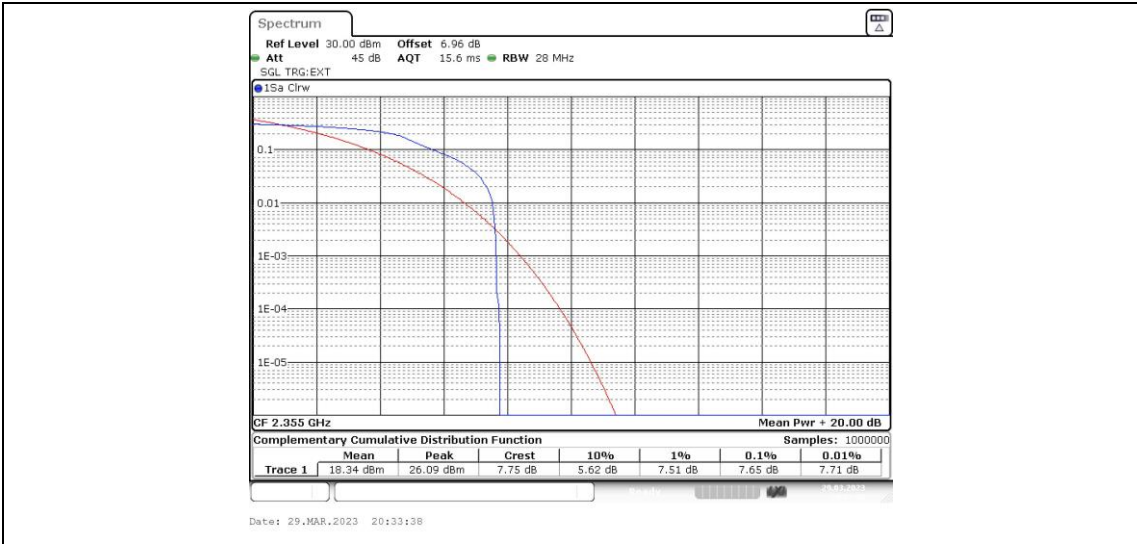
Band40	5MHz	16QAM	39200	1RB#24	23.37	PASS
Band40	5MHz	16QAM	39200	12RB#0	22.02	PASS
Band40	5MHz	16QAM	39200	12RB#6	21.97	PASS
Band40	5MHz	16QAM	39200	12RB#13	22.08	PASS
Band40	5MHz	16QAM	39200	25RB#0	22.02	PASS
Band40	5MHz	16QAM	39225	1RB#0	23.17	PASS
Band40	5MHz	16QAM	39225	1RB#12	23.21	PASS
Band40	5MHz	16QAM	39225	1RB#24	23.19	PASS
Band40	5MHz	16QAM	39225	12RB#0	22.07	PASS
Band40	5MHz	16QAM	39225	12RB#6	22.07	PASS
Band40	5MHz	16QAM	39225	12RB#13	22.10	PASS
Band40	5MHz	16QAM	39225	25RB#0	22.03	PASS
Band40	10MHz	QPSK	39200	1RB#0	23.90	PASS
Band40	10MHz	QPSK	39200	1RB#24	23.89	PASS
Band40	10MHz	QPSK	39200	1RB#49	24.32	PASS
Band40	10MHz	QPSK	39200	25RB#0	23.30	PASS
Band40	10MHz	QPSK	39200	25RB#12	23.02	PASS
Band40	10MHz	QPSK	39200	25RB#25	23.31	PASS
Band40	10MHz	QPSK	39200	50RB#0	23.37	PASS
Band40	10MHz	16QAM	39200	1RB#0	23.33	PASS
Band40	10MHz	16QAM	39200	1RB#24	23.73	PASS
Band40	10MHz	16QAM	39200	1RB#49	23.77	PASS
Band40	10MHz	16QAM	39200	25RB#0	22.39	PASS
Band40	10MHz	16QAM	39200	25RB#12	22.36	PASS
Band40	10MHz	16QAM	39200	25RB#25	22.34	PASS
Band40	10MHz	16QAM	39200	50RB#0	22.42	PASS

Appendix B: Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	7.54	13	PASS
Band40	5MHz	QPSK	39175	25RB#0	8.70	13	PASS
Band40	5MHz	QPSK	39200	1RB#0	7.65	13	PASS
Band40	5MHz	QPSK	39200	25RB#0	8.75	13	PASS
Band40	5MHz	QPSK	39225	1RB#0	7.54	13	PASS
Band40	5MHz	QPSK	39225	25RB#0	8.78	13	PASS
Band40	5MHz	16QAM	39175	1RB#0	8.84	13	PASS
Band40	5MHz	16QAM	39175	25RB#0	9.51	13	PASS
Band40	5MHz	16QAM	39200	1RB#0	8.72	13	PASS
Band40	5MHz	16QAM	39200	25RB#0	9.54	13	PASS
Band40	5MHz	16QAM	39225	1RB#0	8.96	13	PASS
Band40	5MHz	16QAM	39225	25RB#0	9.57	13	PASS
Band40	10MHz	QPSK	39200	1RB#0	7.59	13	PASS
Band40	10MHz	QPSK	39200	50RB#0	8.72	13	PASS
Band40	10MHz	16QAM	39200	1RB#0	8.78	13	PASS
Band40	10MHz	16QAM	39200	50RB#0	9.57	13	PASS

Test Graphs

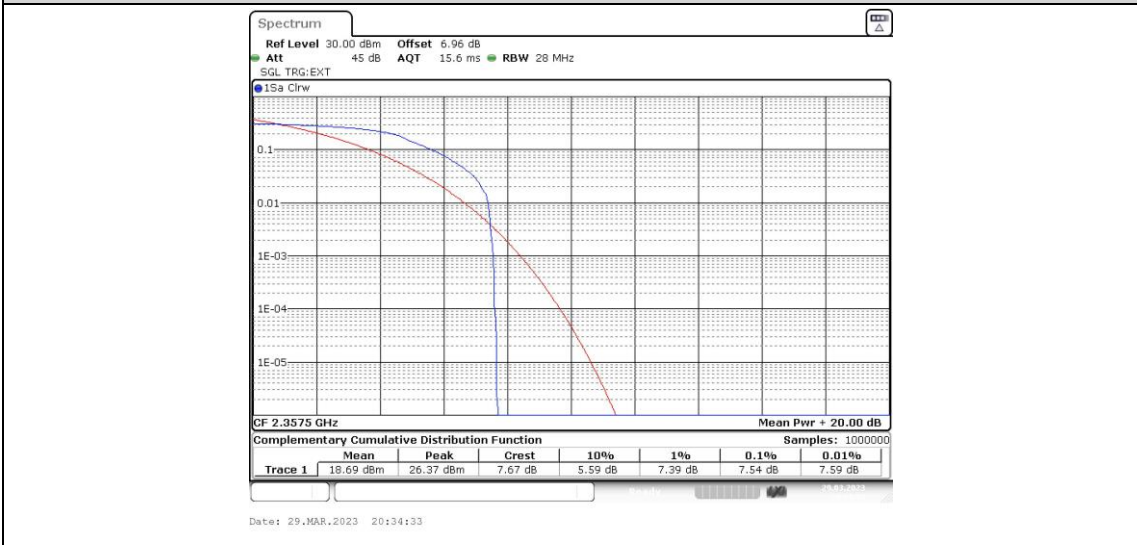




Band40-5MHz-QPSK-39200-25RB#0



Band40-5MHz-QPSK-39225-1RB#0



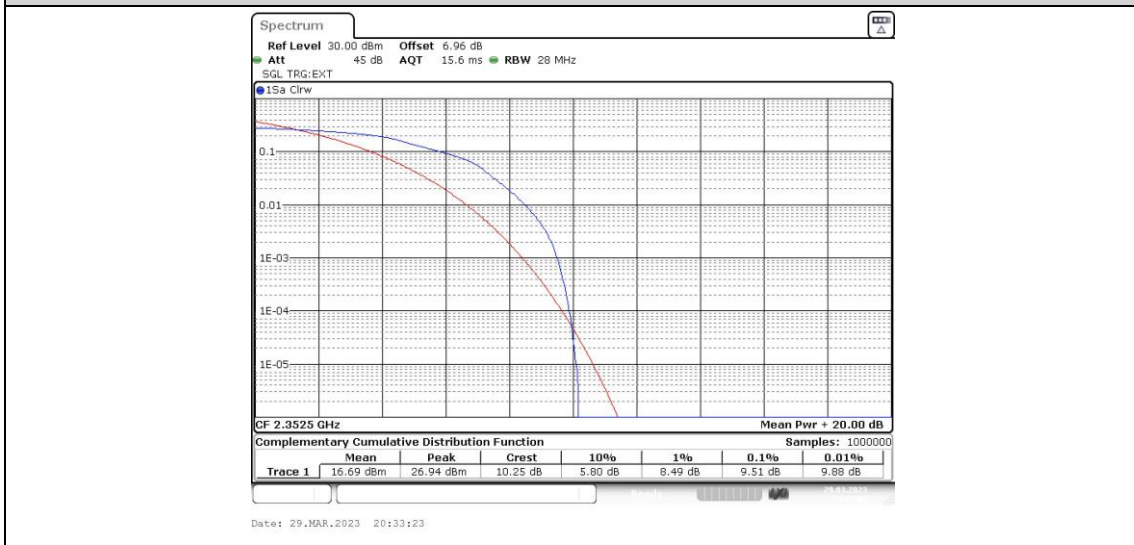
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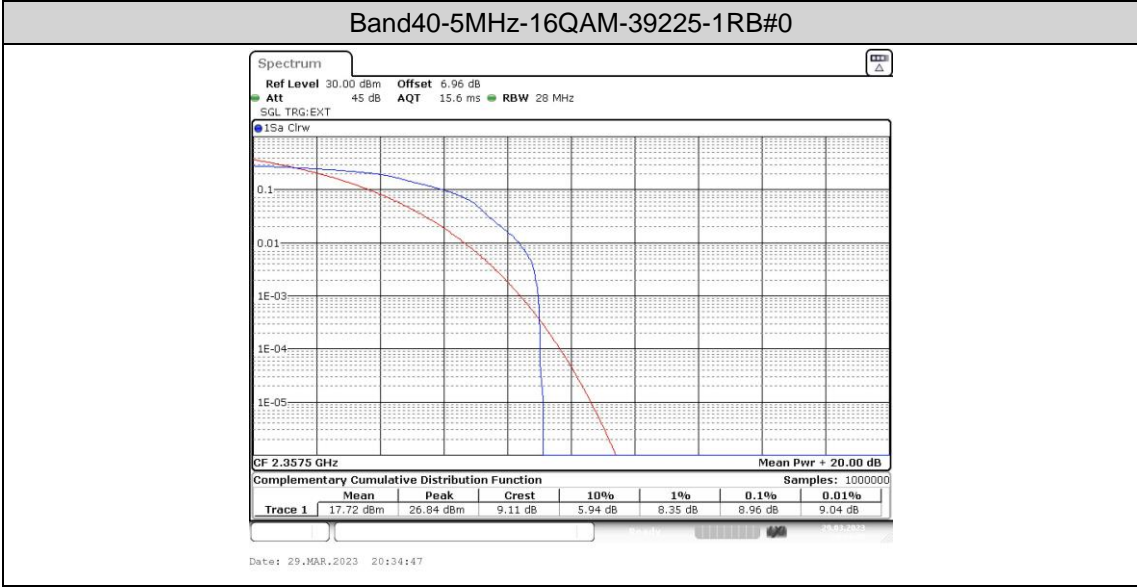
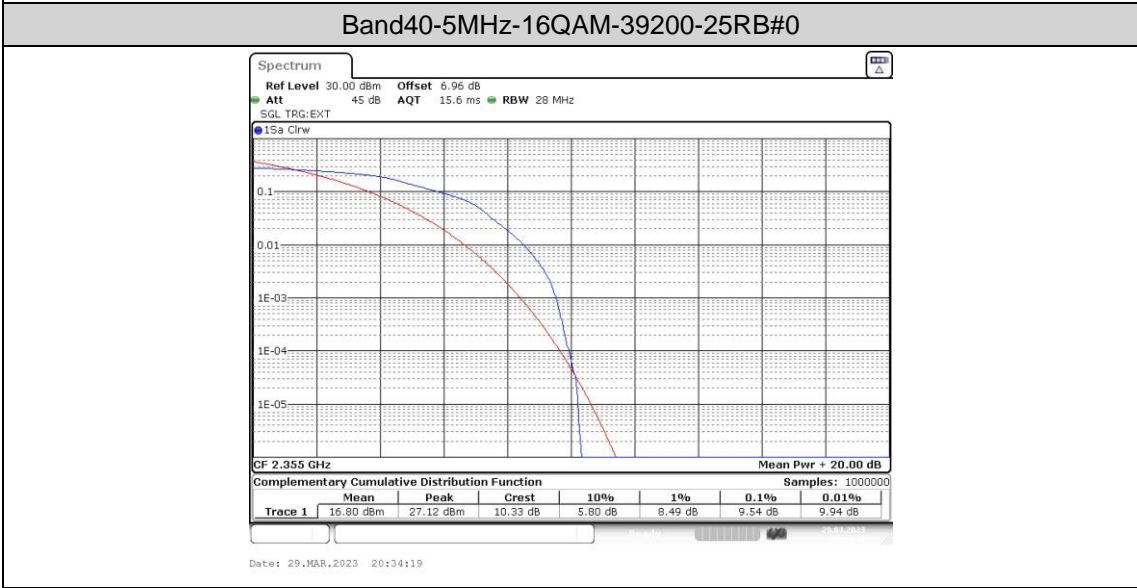
Band40-5MHz-16QAM-39175-1RB#0

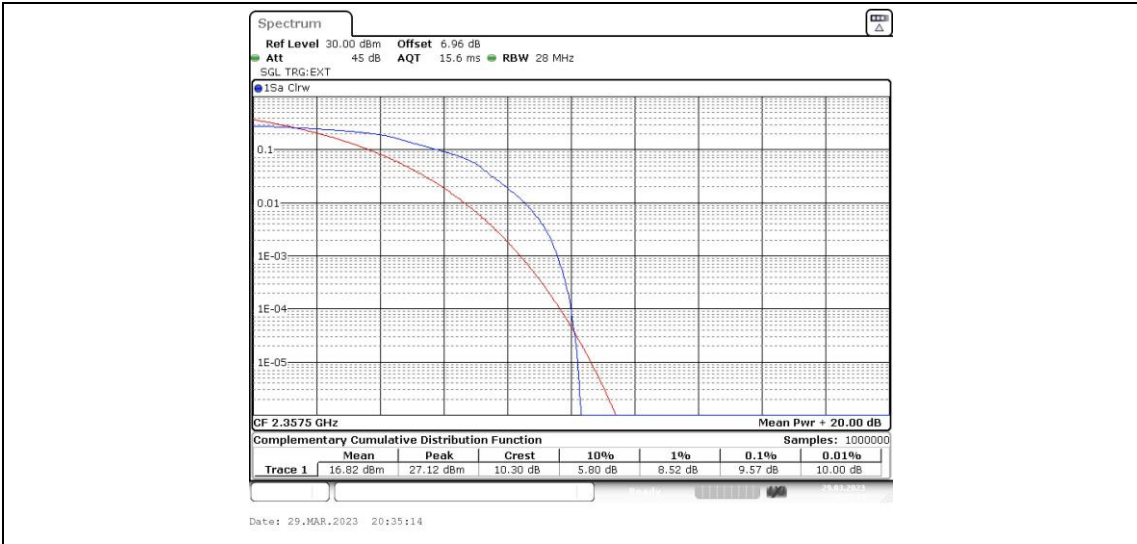


Band40-5MHz-16QAM-39175-25RB#0



Band40-5MHz-16QAM-39200-1RB#0

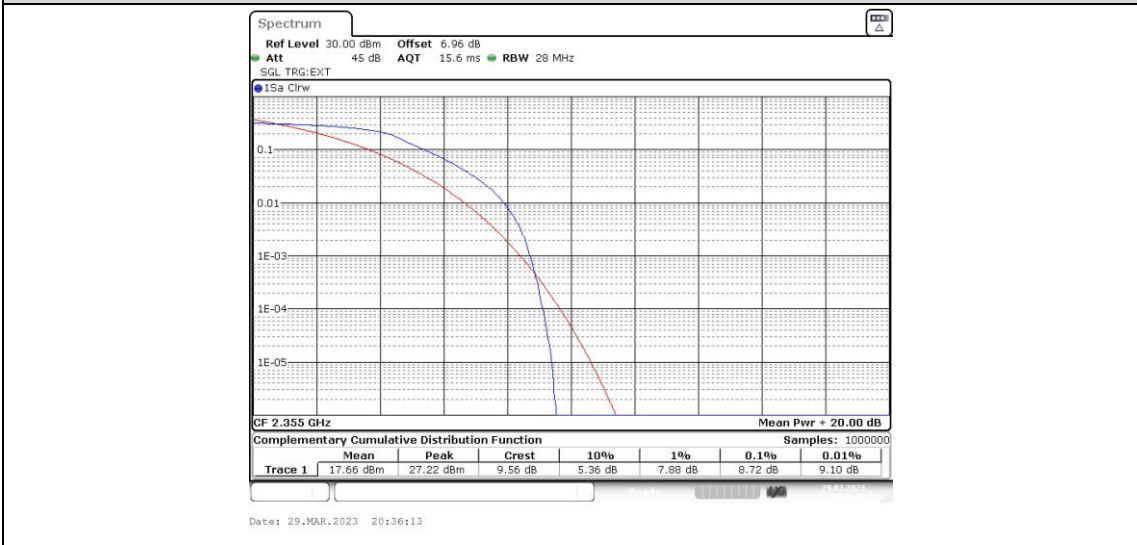




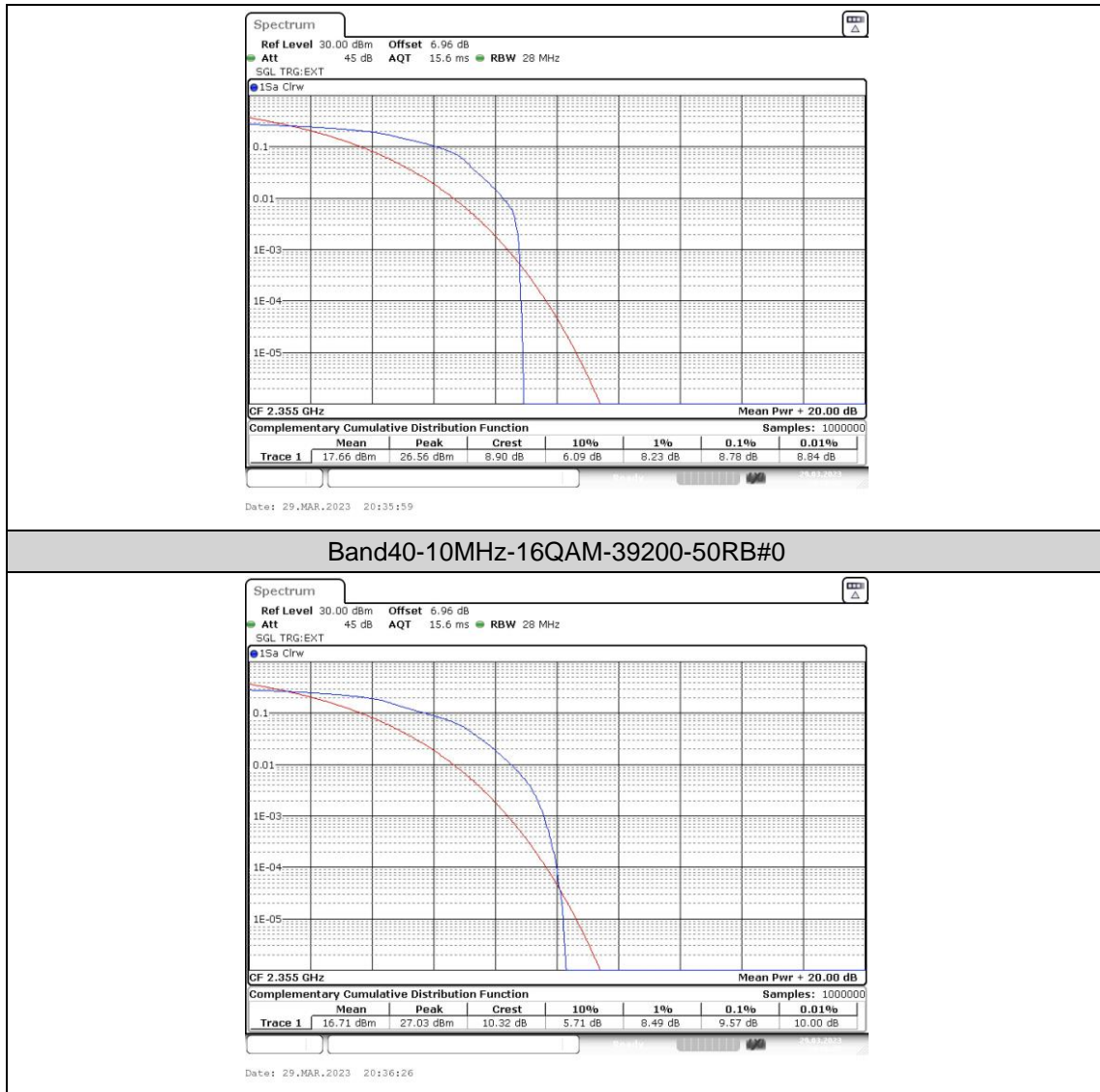
Band40-10MHz-QPSK-39200-1RB#0



Band40-10MHz-QPSK-39200-50RB#0



Band40-10MHz-16QAM-39200-1RB#0

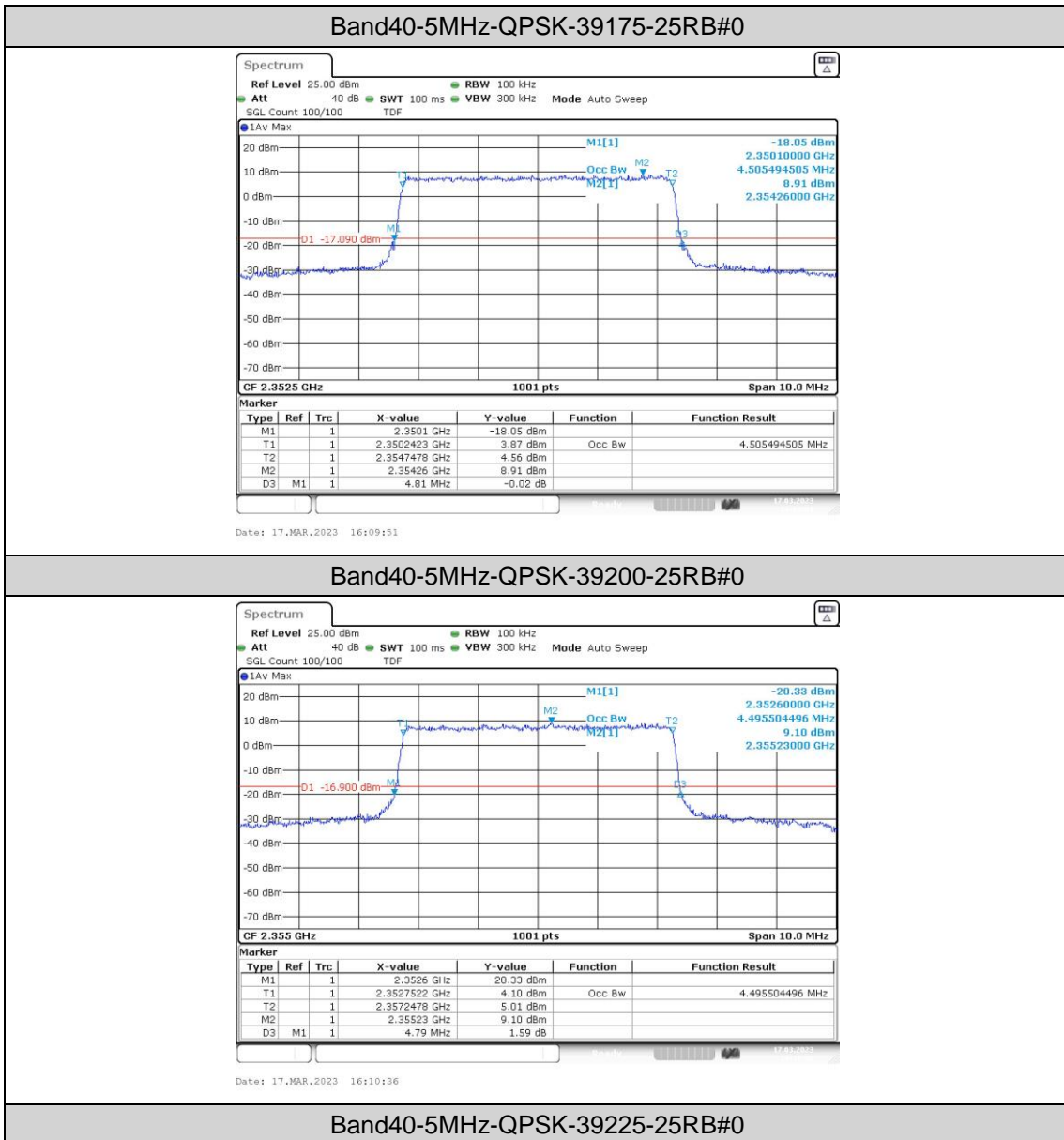


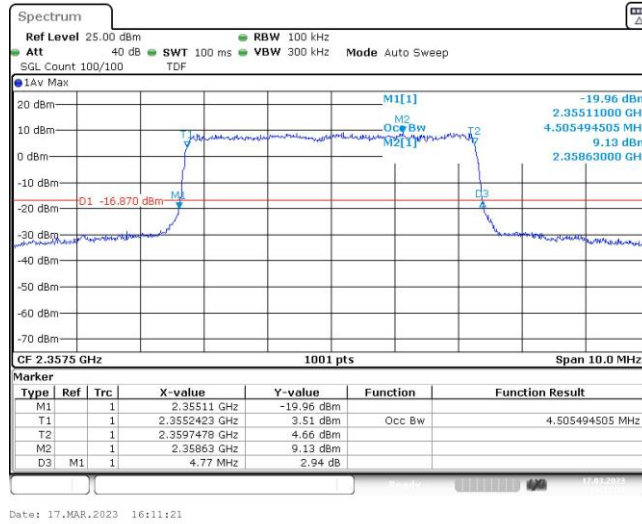
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

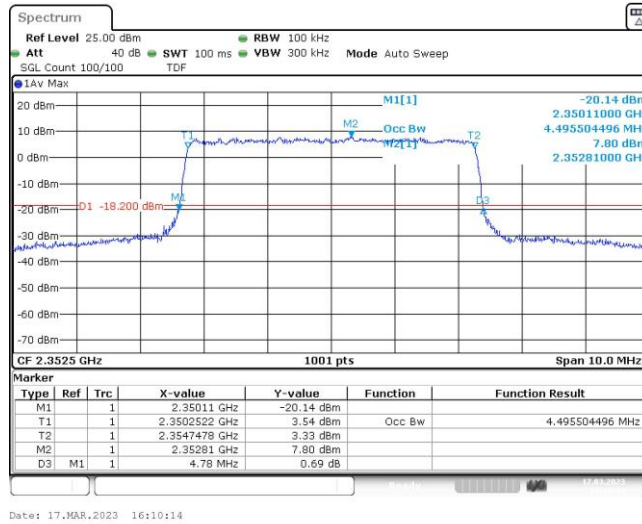
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	4.505	4.81	PASS
Band40	5MHz	QPSK	39200	25RB#0	4.496	4.79	PASS
Band40	5MHz	QPSK	39225	25RB#0	4.505	4.77	PASS
Band40	5MHz	16QAM	39175	25RB#0	4.496	4.78	PASS
Band40	5MHz	16QAM	39200	25RB#0	4.505	4.78	PASS
Band40	5MHz	16QAM	39225	25RB#0	4.505	4.79	PASS
Band40	10MHz	QPSK	39200	50RB#0	8.985	9.53	PASS
Band40	10MHz	16QAM	39200	50RB#0	8.985	9.53	PASS

Test Graphs

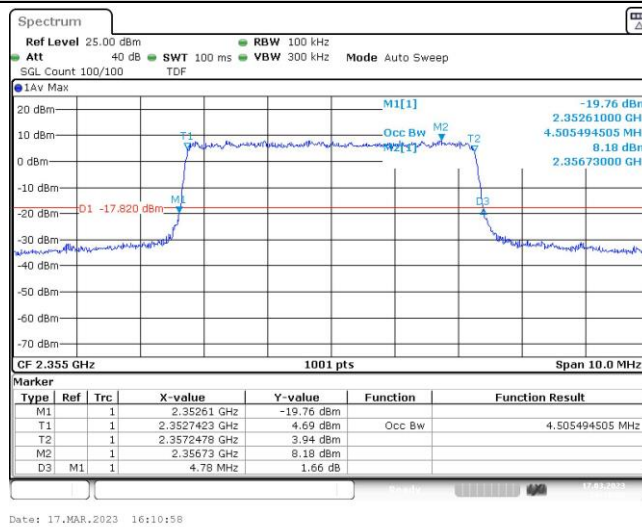




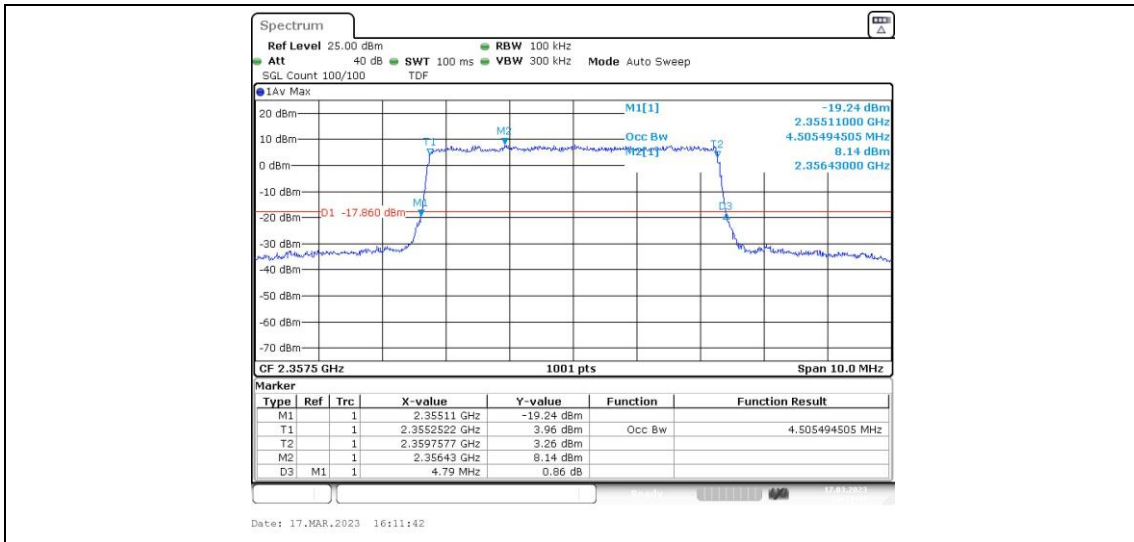
Band40-5MHz-16QAM-39175-25RB#0



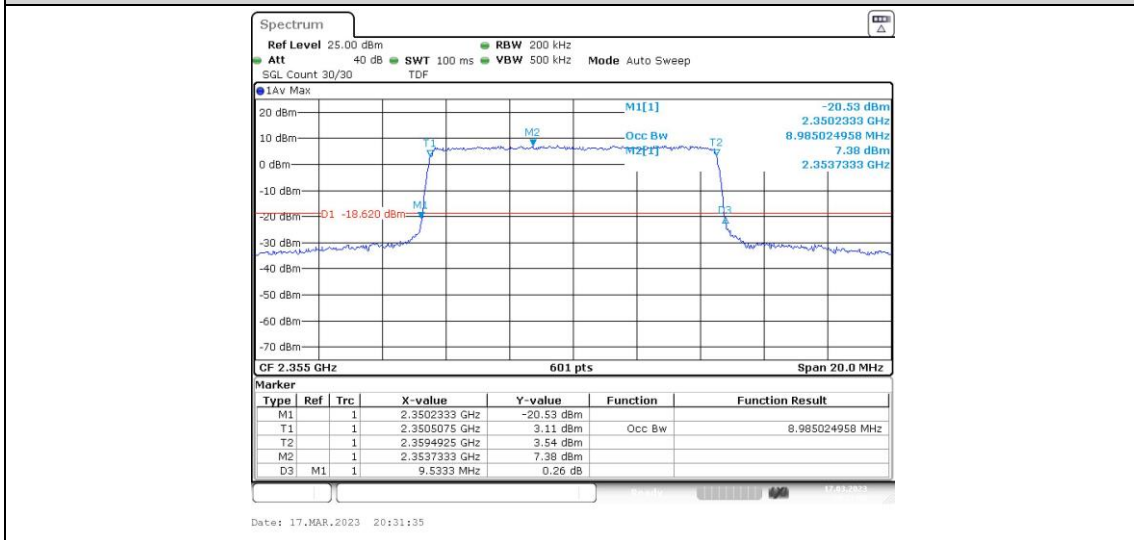
Band40-5MHz-16QAM-39200-25RB#0



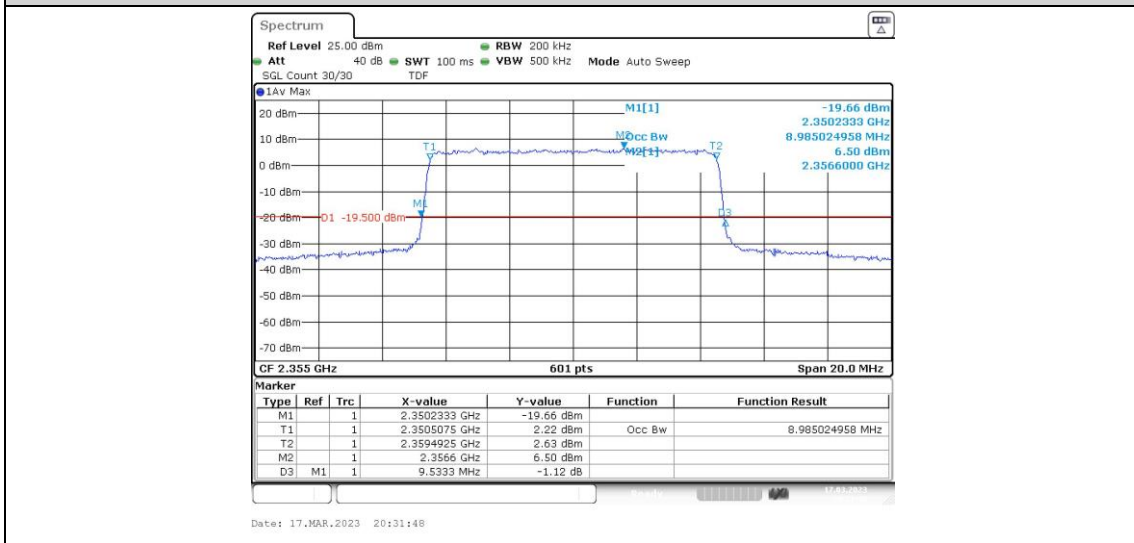
Band40-5MHz-16QAM-39225-25RB#0



Band40-10MHz-QPSK-39200-50RB#0



Band40-10MHz-16QAM-39200-50RB#0

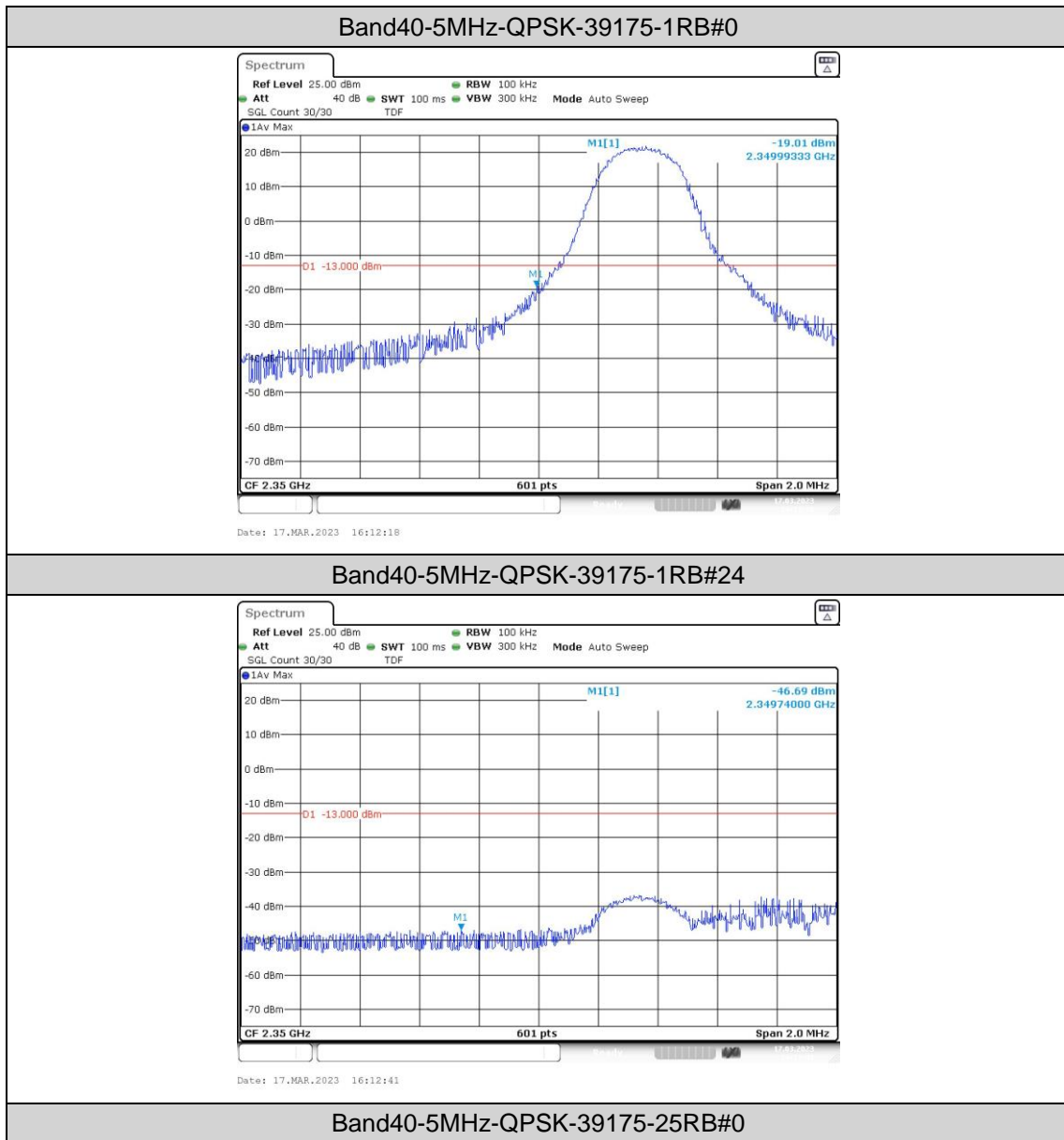


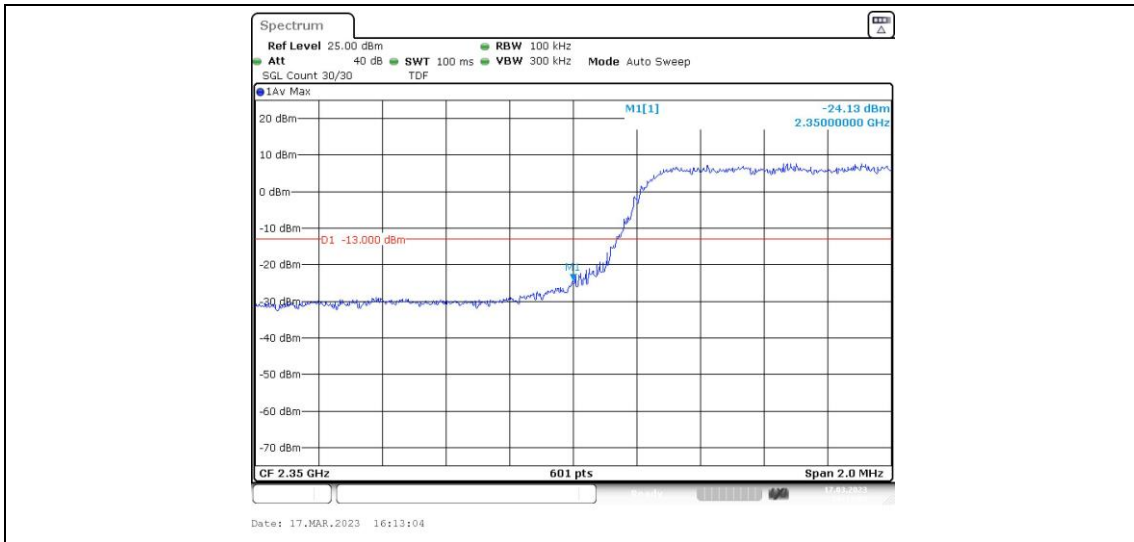
Appendix D: Band Edge

Test Result

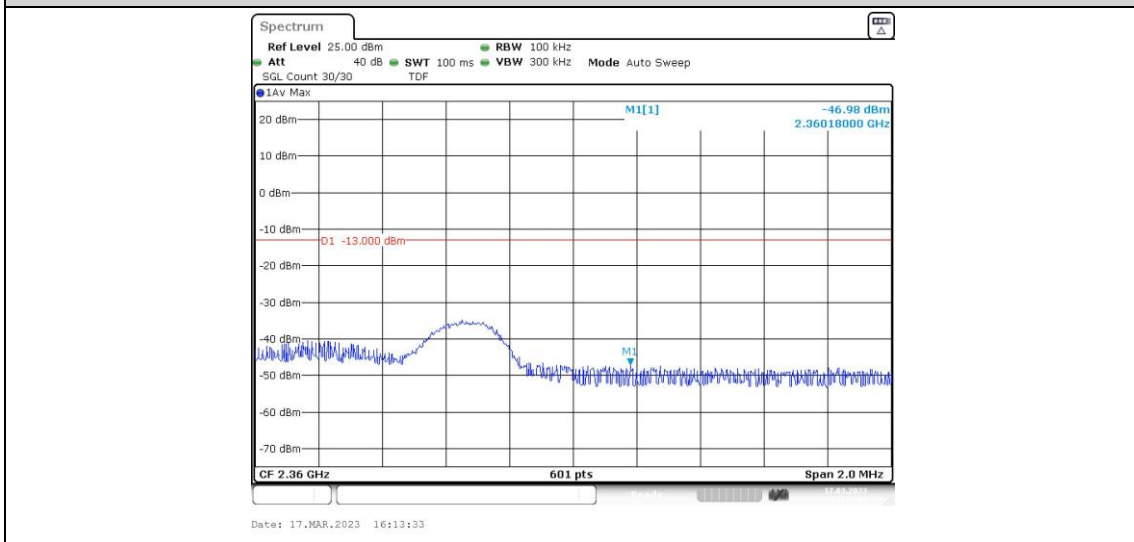
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	-19.01	PASS
Band40	5MHz	QPSK	39175	1RB#24	-46.69	PASS
Band40	5MHz	QPSK	39175	25RB#0	-24.13	PASS
Band40	5MHz	QPSK	39225	1RB#0	-46.98	PASS
Band40	5MHz	QPSK	39225	1RB#24	-21.36	PASS
Band40	5MHz	QPSK	39225	25RB#0	-24.82	PASS
Band40	5MHz	16QAM	39175	1RB#0	-19.38	PASS
Band40	5MHz	16QAM	39175	1RB#24	-46.90	PASS
Band40	5MHz	16QAM	39175	25RB#0	-27.05	PASS
Band40	5MHz	16QAM	39225	1RB#0	-46.33	PASS
Band40	5MHz	16QAM	39225	1RB#24	-20.37	PASS
Band40	5MHz	16QAM	39225	25RB#0	-26.69	PASS

Test Graphs

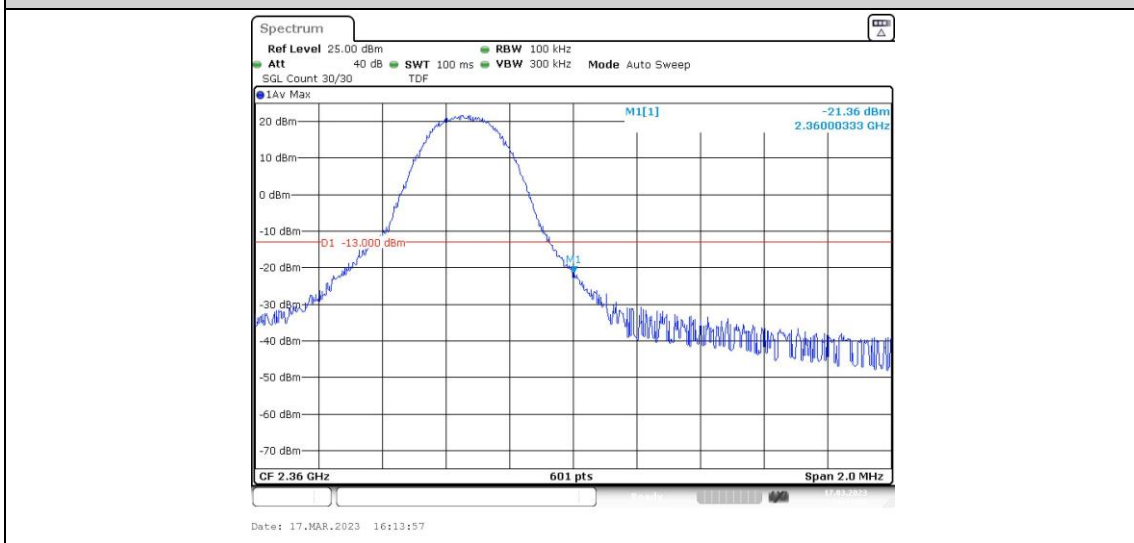




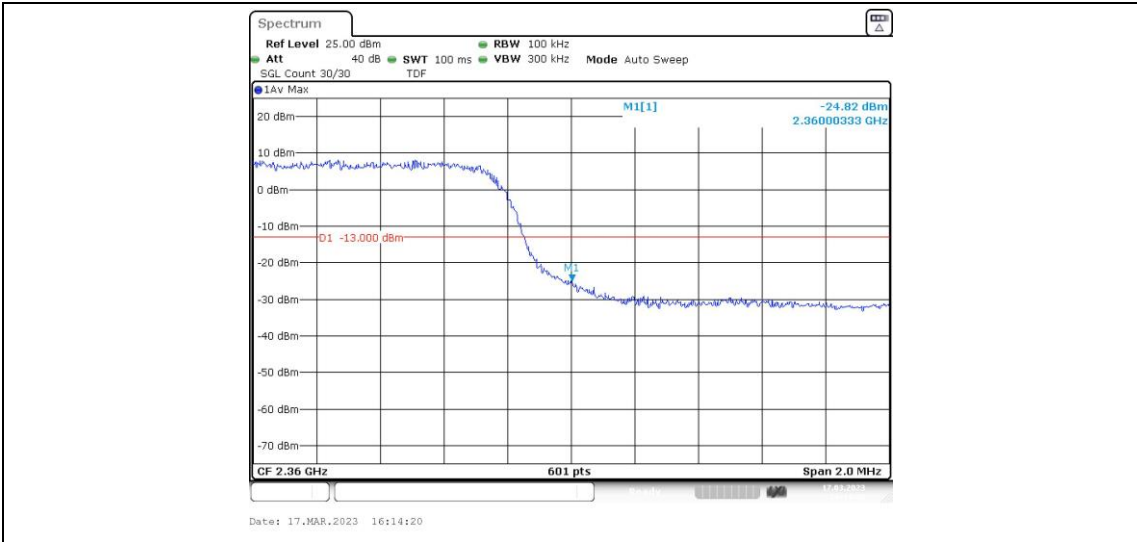
Band40-5MHz-QPSK-39225-1RB#0



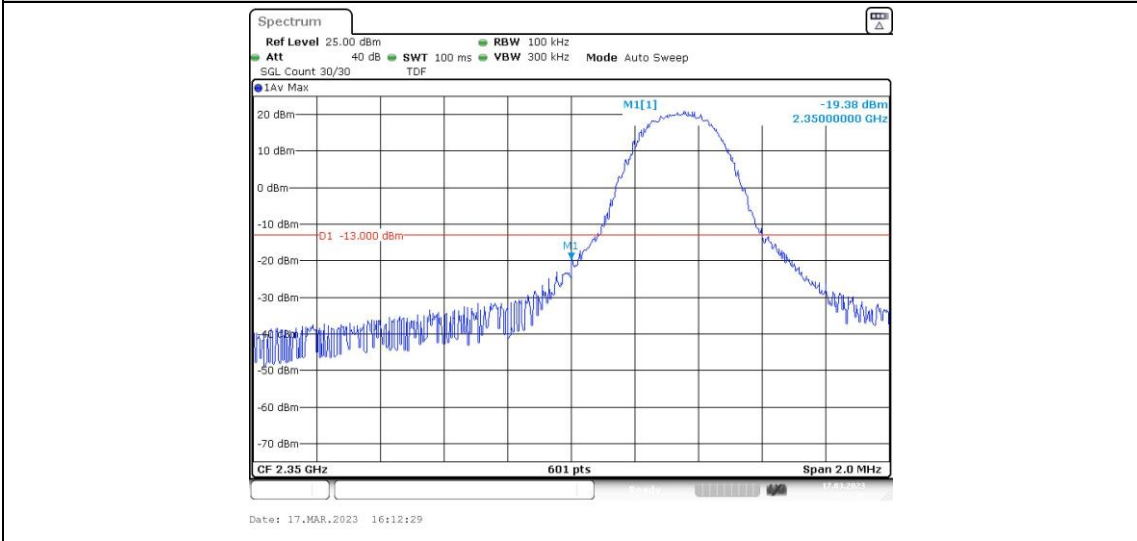
Band40-5MHz-QPSK-39225-1RB#24



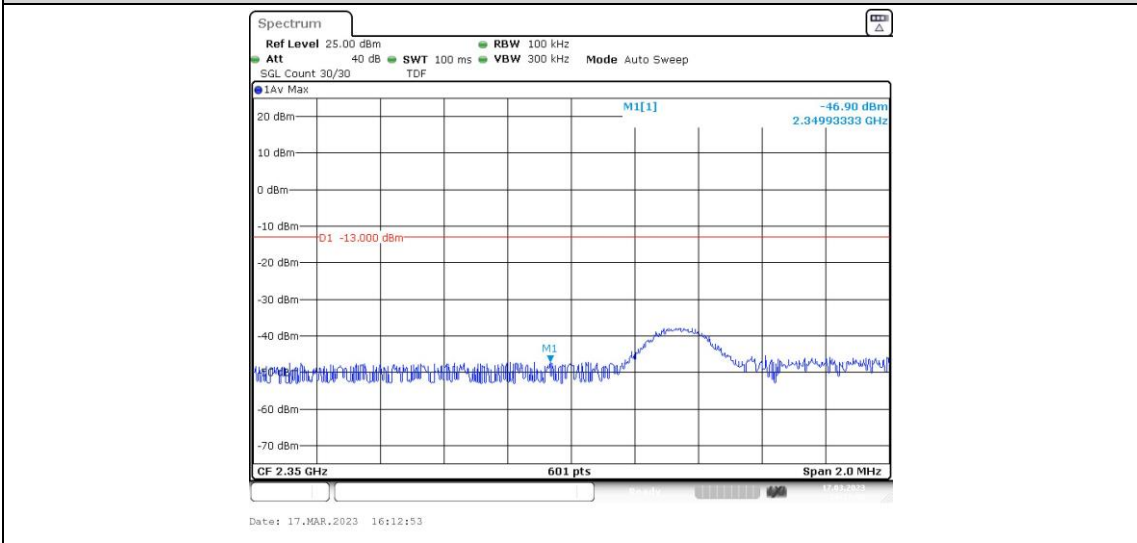
Band40-5MHz-QPSK-39225-25RB#0



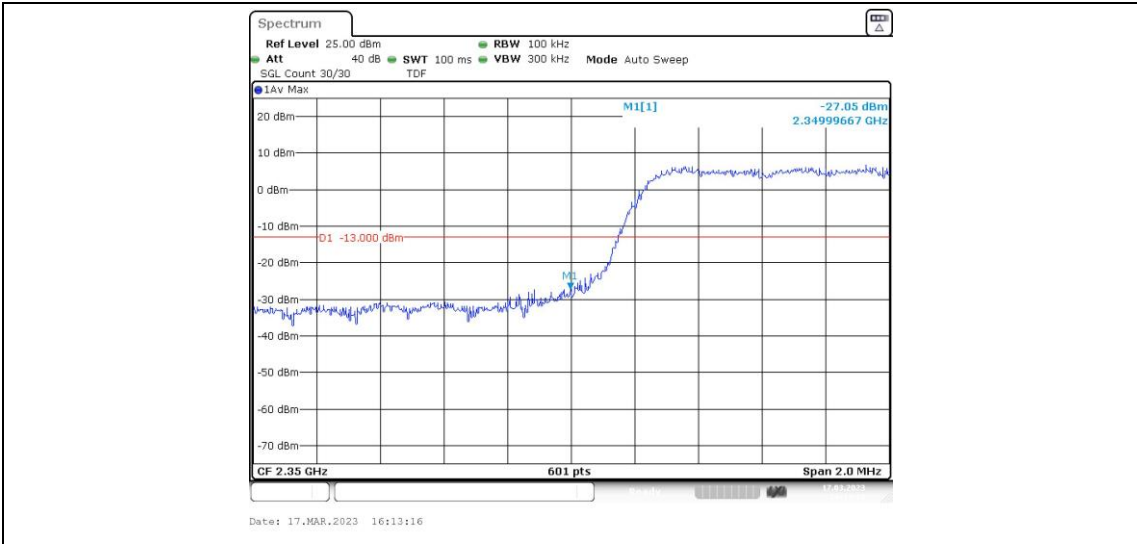
Band40-5MHz-16QAM-39175-1RB#0



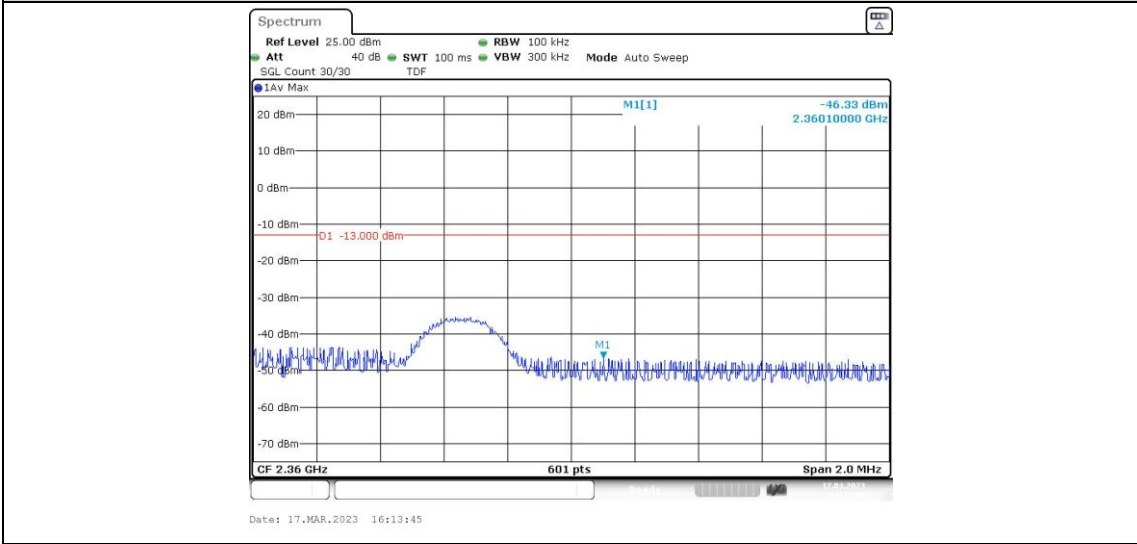
Band40-5MHz-16QAM-39175-1RB#24



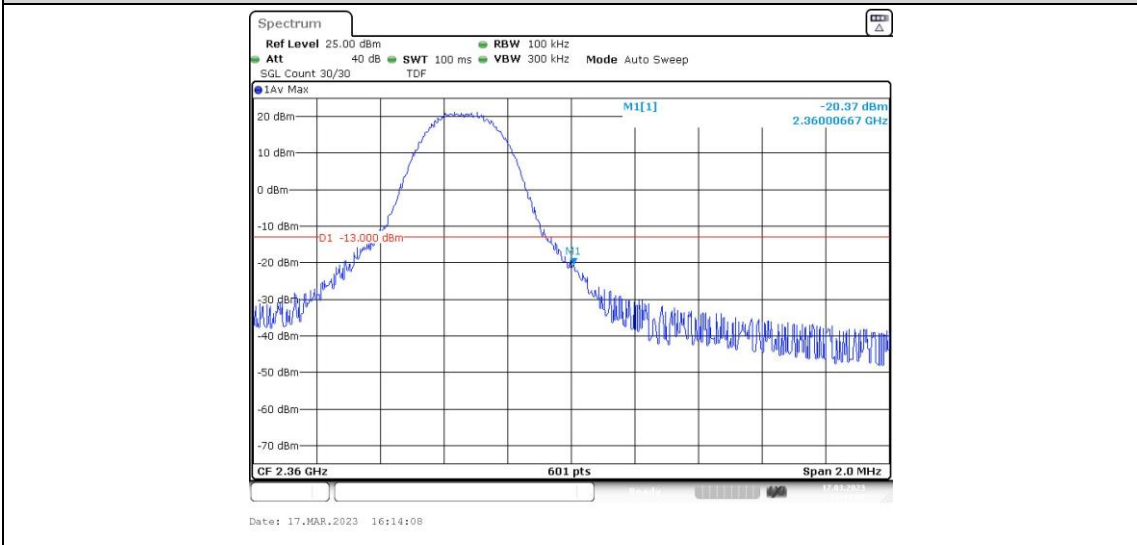
Band40-5MHz-16QAM-39175-25RB#0



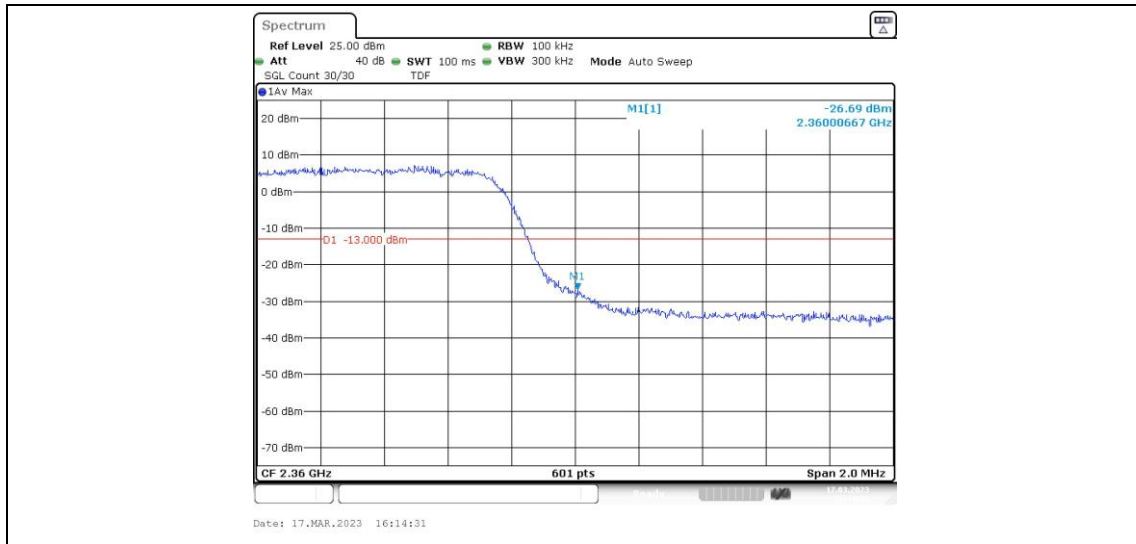
Band40-5MHz-16QAM-39225-1RB#0



Band40-5MHz-16QAM-39225-1RB#24



Band40-5MHz-16QAM-39225-25RB#0

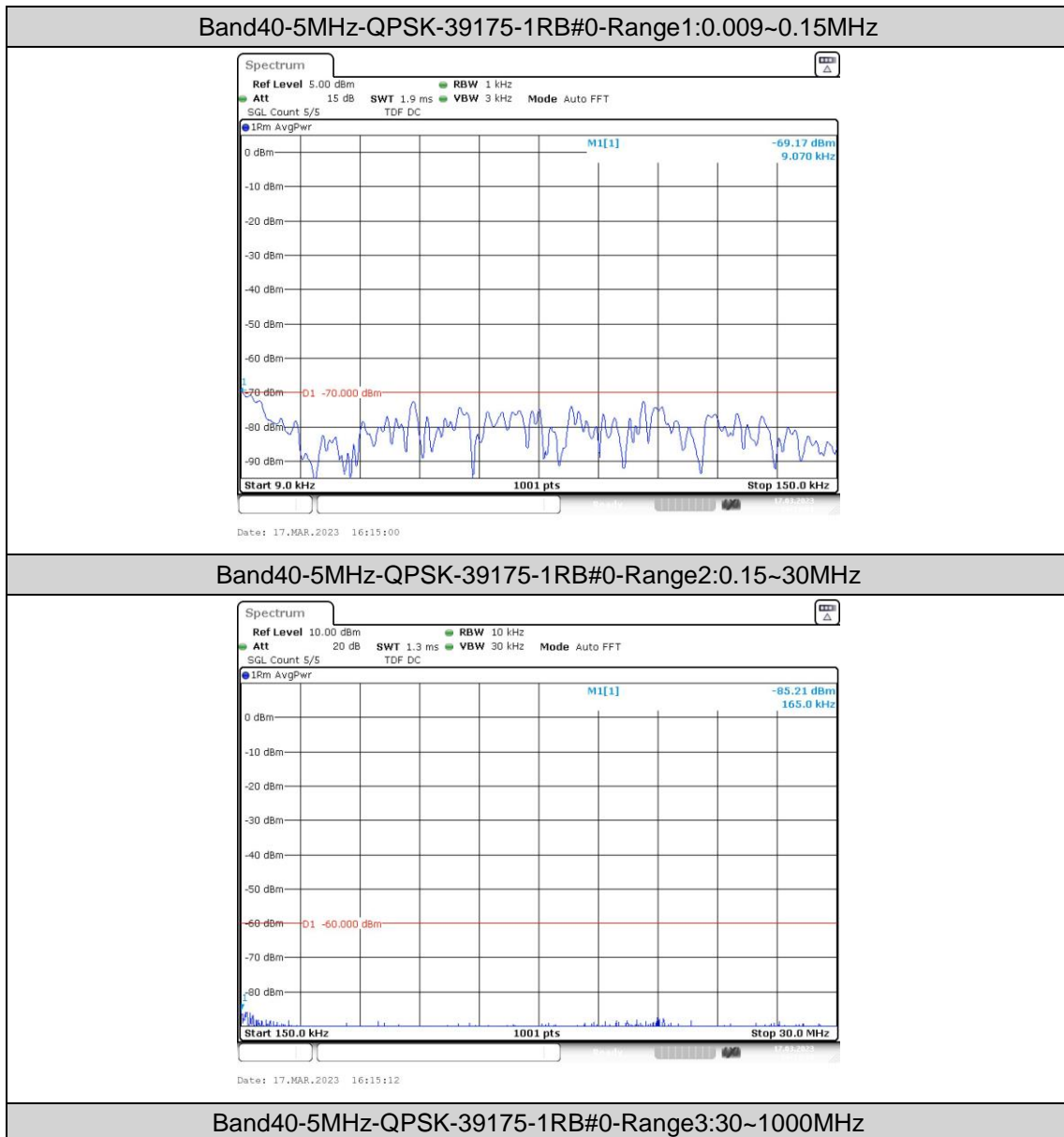


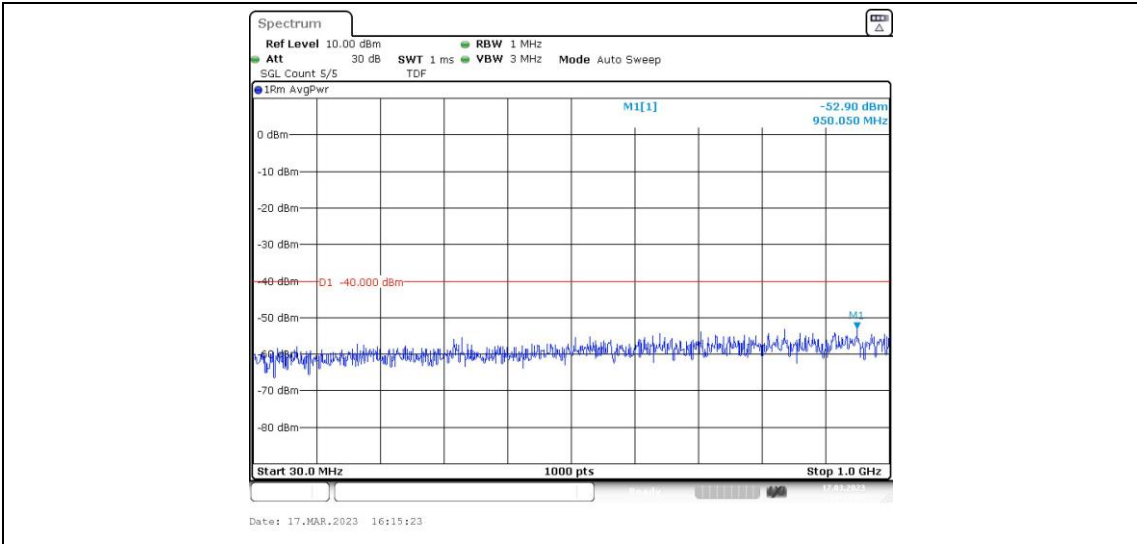
Appendix E: Conducted Spurious Emission

Test Result

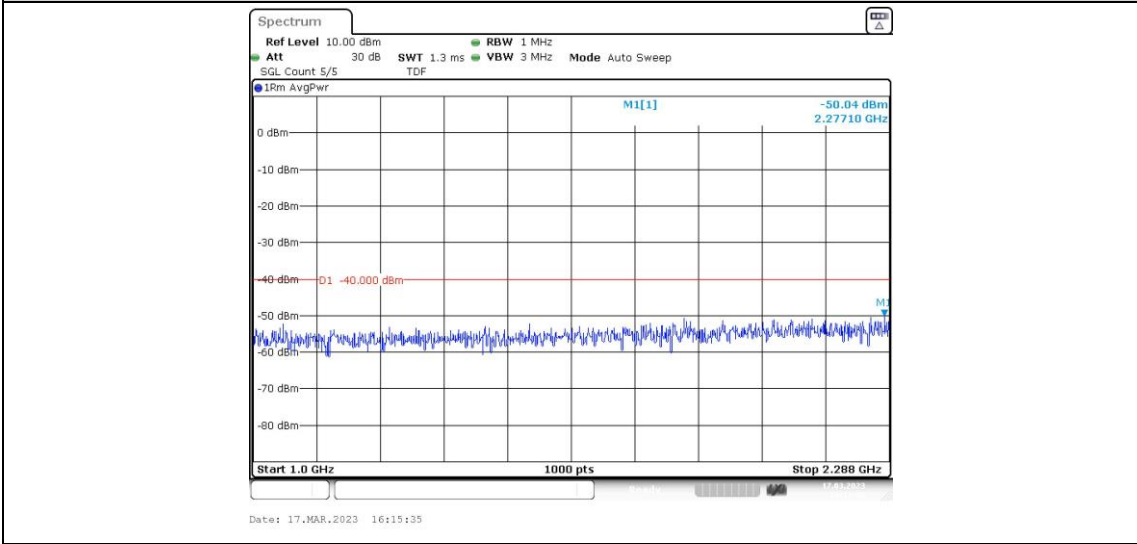
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	Range1:0.009~0.15M Hz	-69.17	FAIL
Band40	5MHz	QPSK	39175	1RB#0	Range2:0.15~30MHz	-85.21	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range3:30~1000MHz	-52.9	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range4:1000~2288M Hz	-50.04	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range5:2288~2292M Hz	-50	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range6:2292~2296M Hz	-51.09	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range7:2296~2300M Hz	-46.84	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range8:2320~2324M Hz	-51.41	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range9:2324~2328M Hz	-51.55	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range10:2328~2337M Hz	-52.53	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range11:2337~2341M Hz	-51.44	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range12:2341~2345M Hz	-51.16	PASS

Test Graphs

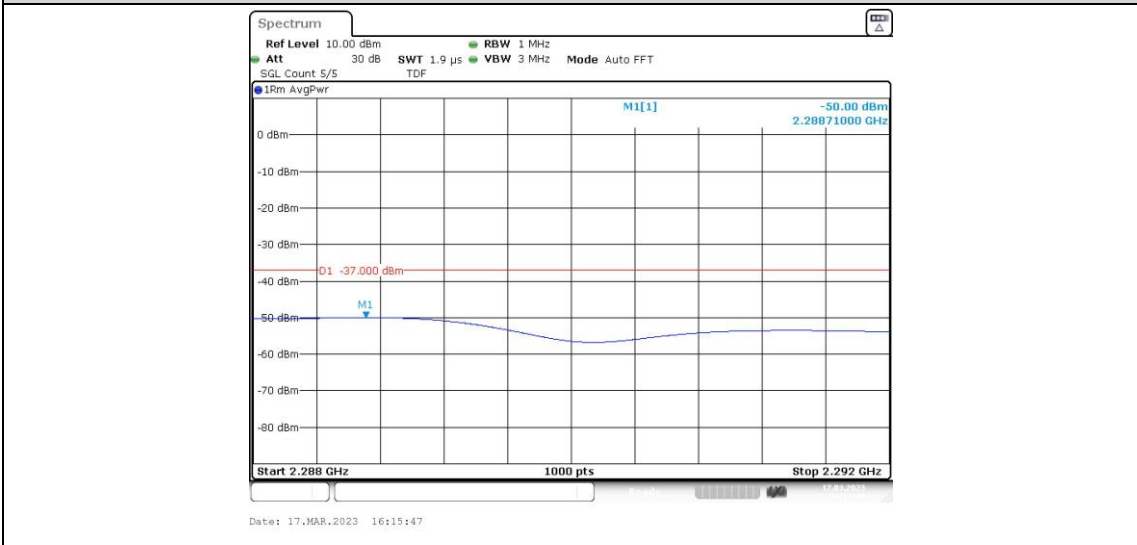




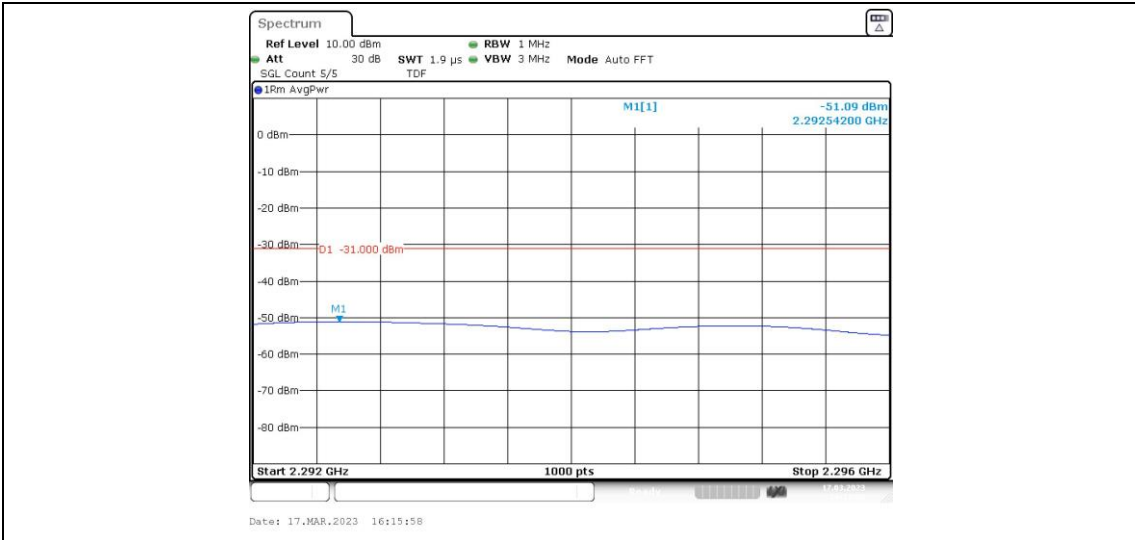
Band40-5MHz-QPSK-39175-1RB#0-Range4:1000~2288MHz



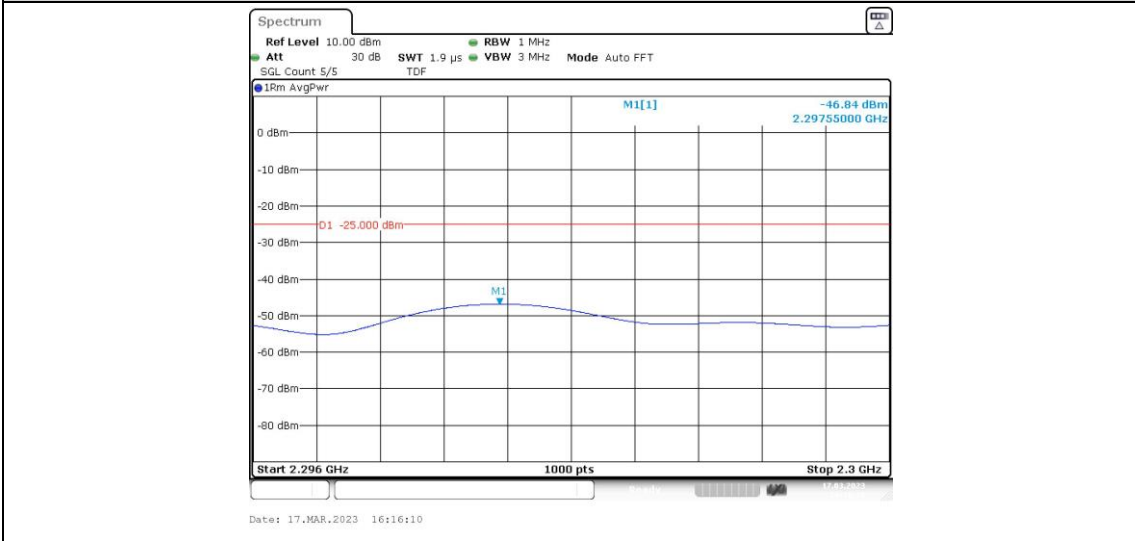
Band40-5MHz-QPSK-39175-1RB#0-Range5:2288~2292MHz



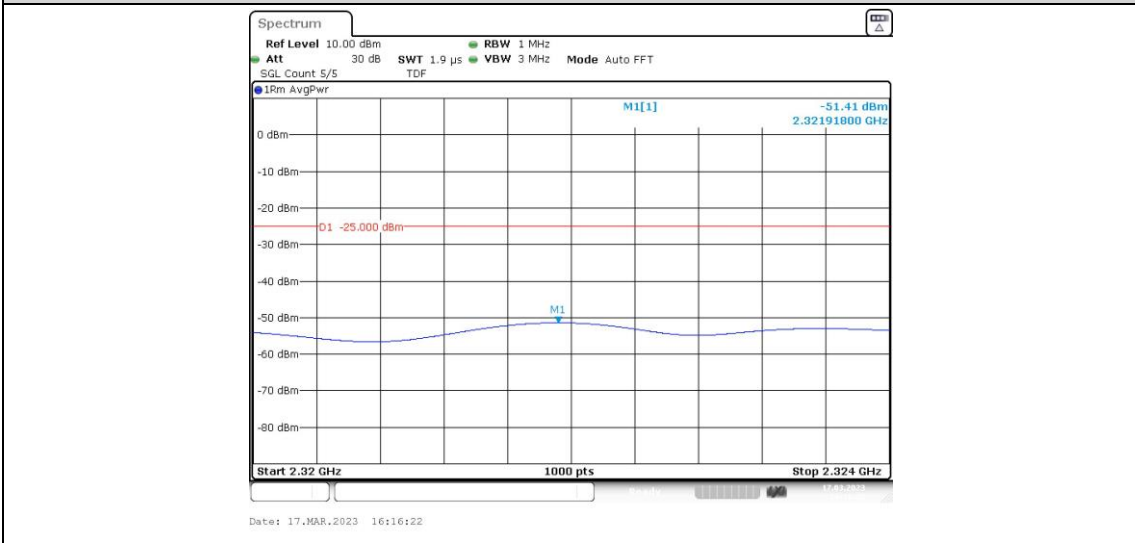
Band40-5MHz-QPSK-39175-1RB#0-Range6:2292~2296MHz



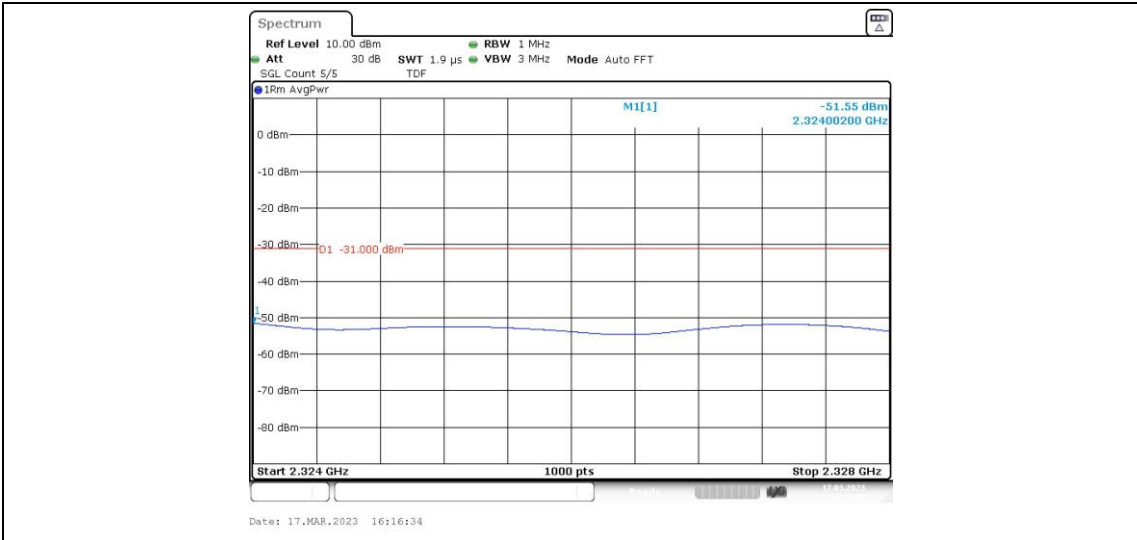
Band40-5MHz-QPSK-39175-1RB#0-Range7:2296~2300MHz



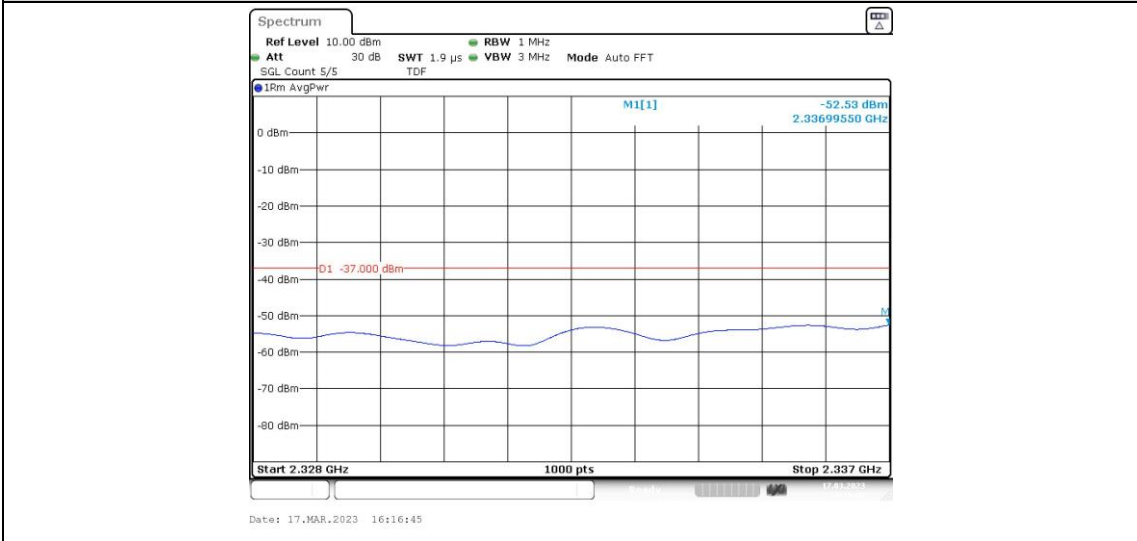
Band40-5MHz-QPSK-39175-1RB#0-Range8:2320~2324MHz



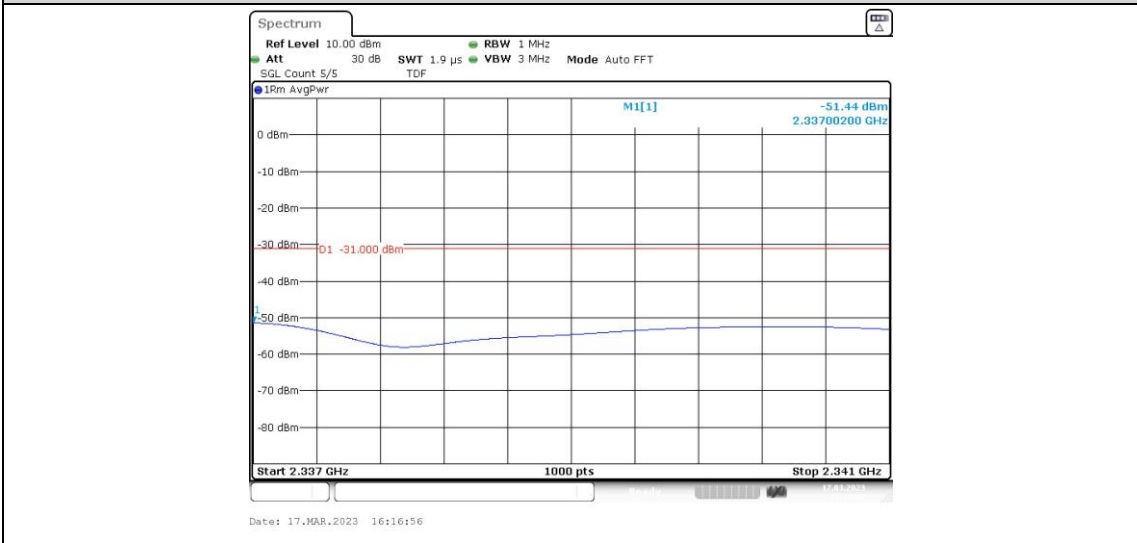
Band40-5MHz-QPSK-39175-1RB#0-Range9:2324~2328MHz



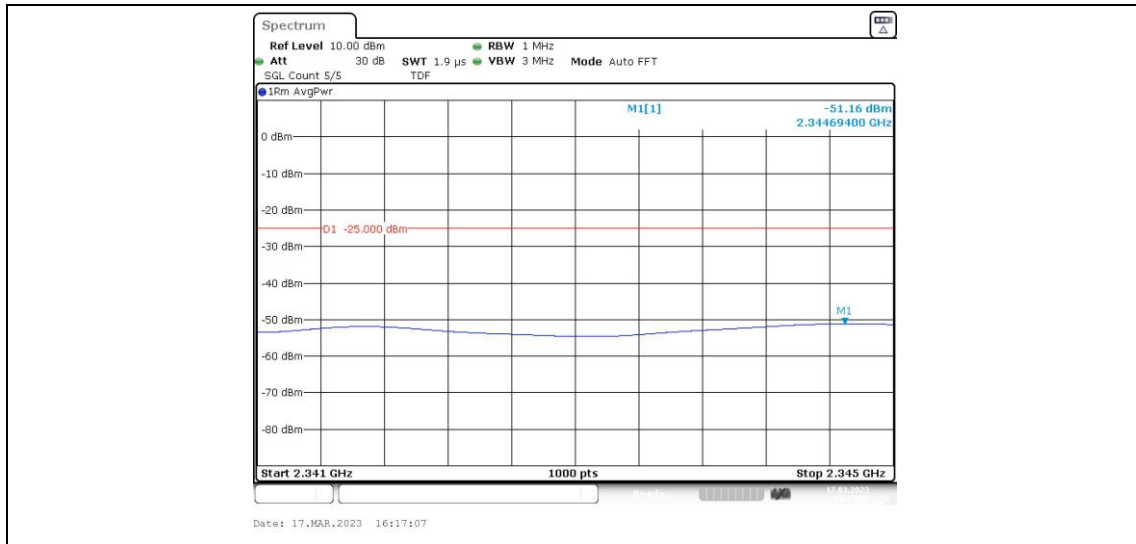
Band40-5MHz-QPSK-39175-1RB#0-Range10:2328~2337MHz



Band40-5MHz-QPSK-39175-1RB#0-Range11:2337~2341MHz



Band40-5MHz-QPSK-39175-1RB#0-Range12:2341~2345MHz



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band4_0	5MHz	QPSK	39175	25RB#0	VL	NT	-4.81	-0.002045	±2.5	PASS
Band4_0	5MHz	QPSK	39175	25RB#0	VN	NT	3.96	0.001683	±2.5	PASS
Band4_0	5MHz	QPSK	39175	25RB#0	VH	NT	-4.73	-0.002011	±2.5	PASS
Band4_0	5MHz	QPSK	39200	25RB#0	VL	NT	4.11	0.001745	±2.5	PASS
Band4_0	5MHz	QPSK	39200	25RB#0	VN	NT	3.32	0.001410	±2.5	PASS
Band4_0	5MHz	QPSK	39200	25RB#0	VH	NT	-3.79	-0.001609	±2.5	PASS
Band4_0	5MHz	QPSK	39225	25RB#0	VL	NT	4.01	0.001701	±2.5	PASS
Band4_0	5MHz	QPSK	39225	25RB#0	VN	NT	5.78	0.002452	±2.5	PASS
Band4_0	5MHz	QPSK	39225	25RB#0	VH	NT	5.39	0.002286	±2.5	PASS
Band4_0	5MHz	16QAM	39175	25RB#0	VL	NT	5.26	0.002236	±2.5	PASS
Band4_0	5MHz	16QAM	39175	25RB#0	VN	NT	4.15	0.001764	±2.5	PASS
Band4_0	5MHz	16QAM	39175	25RB#0	VH	NT	3.29	0.001399	±2.5	PASS
Band4_0	5MHz	16QAM	39200	25RB#0	VL	NT	6.47	0.002747	±2.5	PASS
Band4_0	5MHz	16QAM	39200	25RB#0	VN	NT	1.92	0.000815	±2.5	PASS
Band4_0	5MHz	16QAM	39200	25RB#0	VH	NT	5.16	0.002191	±2.5	PASS
Band4_0	5MHz	16QAM	39225	25RB#0	VL	NT	3.85	0.001633	±2.5	PASS
Band4_0	5MHz	16QAM	39225	25RB#0	VN	NT	-1.95	-0.000827	±2.5	PASS

Band4 0	5MHz	16QAM	39225	25RB#0	VH	NT	5.25	0.002227	±2.5	PASS
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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4 0	5MHz	QPSK	39175	25RB#0	NV	-30	-6.72	-0.002857	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	-20	5.41	0.002300	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	-10	5.34	0.002270	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	0	-5.31	-0.002257	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	10	3.22	0.001369	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	20	3.25	0.001382	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	30	3.18	0.001352	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	40	-4.71	-0.002002	±2.5	PASS
Band4 0	5MHz	QPSK	39175	25RB#0	NV	50	-1.42	-0.000604	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	-30	2.05	0.000870	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	-20	2.55	0.001083	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	-10	3.65	0.001550	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	0	3.38	0.001435	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	10	3.63	0.001541	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	20	2.55	0.001083	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	30	4.46	0.001894	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	40	5.81	0.002467	±2.5	PASS
Band4 0	5MHz	QPSK	39200	25RB#0	NV	50	2.49	0.001057	±2.5	PASS

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Band4 0	5MHz	QPSK	39225	25RB#0	NV	-30	-2.68	-0.001137	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	-20	4.78	0.002028	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	-10	4.91	0.002083	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	0	5.61	0.002380	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	10	7.41	0.003143	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	20	4.89	0.002074	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	30	6.31	0.002677	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	40	3.26	0.001383	±2.5	PASS
Band4 0	5MHz	QPSK	39225	25RB#0	NV	50	5.81	0.002464	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	-30	7.04	0.002993	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	-20	3.15	0.001339	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	-10	5.25	0.002232	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	0	2.39	0.001016	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	10	3.71	0.001577	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	20	2.98	0.001267	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	30	-3.32	-0.001411	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	40	1.53	0.000650	±2.5	PASS
Band4 0	5MHz	16QAM	39175	25RB#0	NV	50	4.53	0.001926	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	-30	4.41	0.001873	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	-20	3.26	0.001384	±2.5	PASS
Band4	5MHz	16QAM	39200	25RB#0	NV	-10	5.26	0.002234	±2.5	PASS

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Band4 0	5MHz	16QAM	39200	25RB#0	NV	0	5.46	0.002318	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	10	4.73	0.002008	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	20	4.21	0.001788	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	30	4.66	0.001979	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	40	5.32	0.002259	±2.5	PASS
Band4 0	5MHz	16QAM	39200	25RB#0	NV	50	4.29	0.001822	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	-30	4.38	0.001858	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	-20	4.66	0.001977	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	-10	4.91	0.002083	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	0	7.41	0.003143	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	10	7.38	0.003130	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	20	5.28	0.002240	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	30	3.49	0.001480	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	40	3.65	0.001548	±2.5	PASS
Band4 0	5MHz	16QAM	39225	25RB#0	NV	50	6.88	0.002918	±2.5	PASS