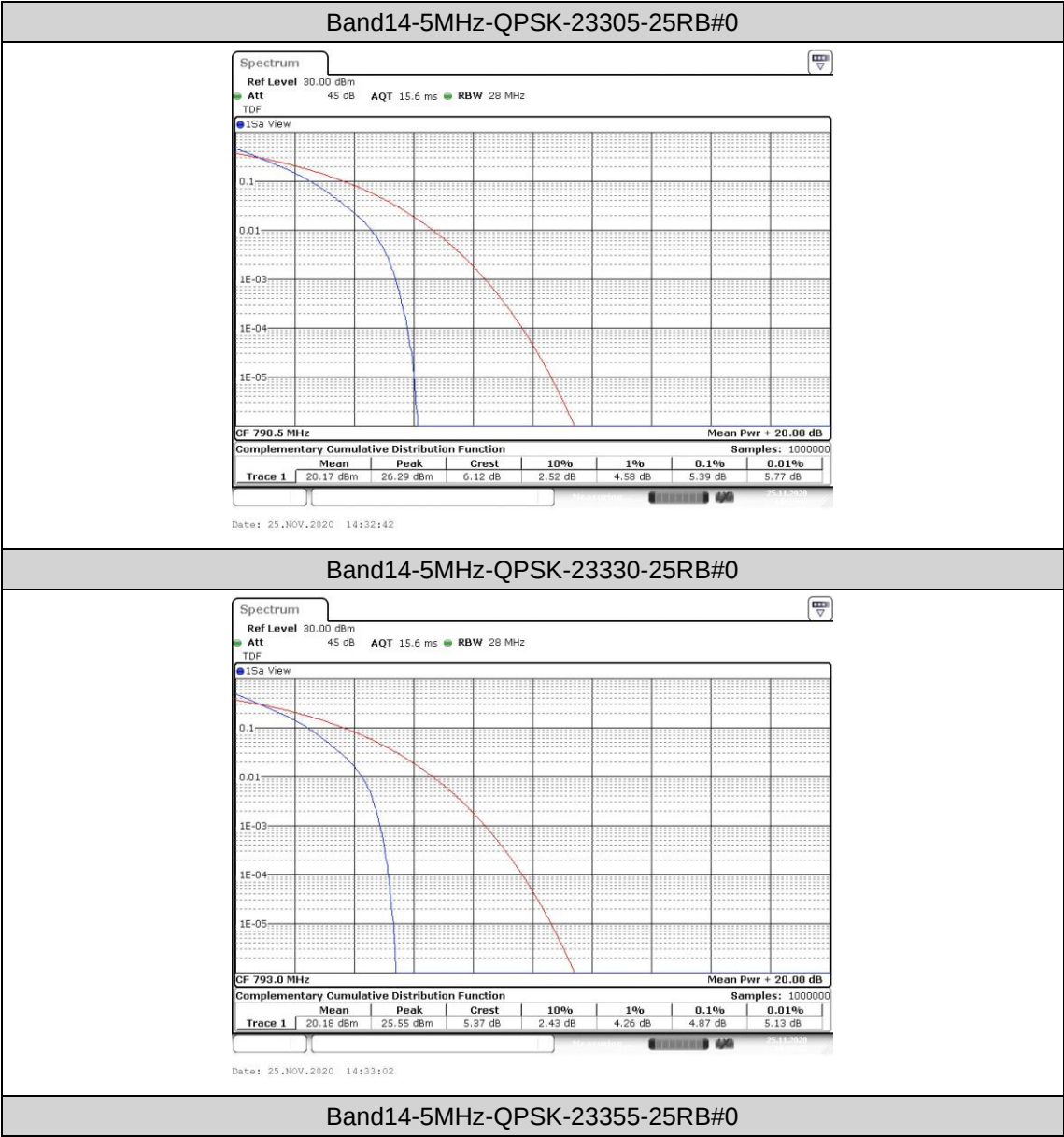
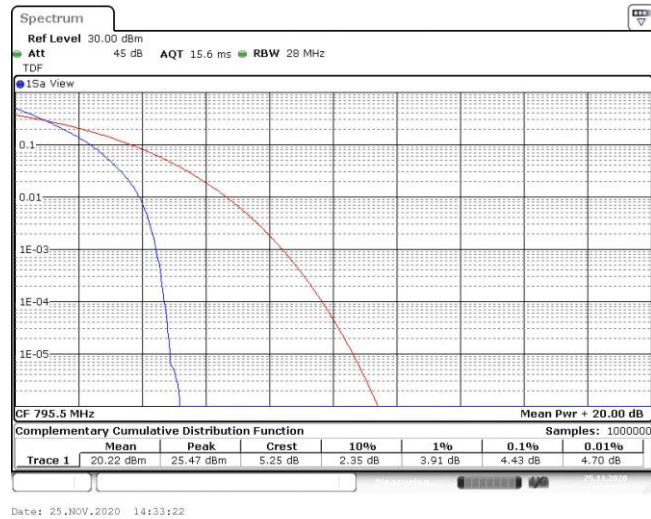


Product Name: GEM-OX-GU**Model: TE-304B-A12****Appendix B: Peak-to-Average Ratio(CCDF)****Test Result**

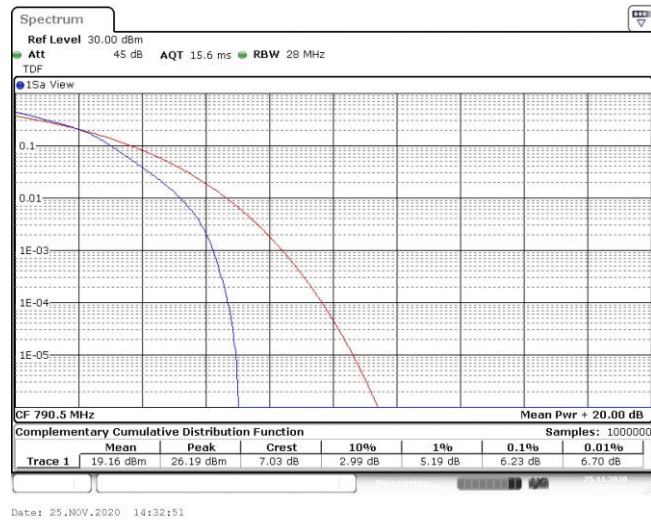
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.39	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.87	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.43	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.23	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	5.74	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	5.30	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	4.81	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.77	13	PASS

Test Graphs

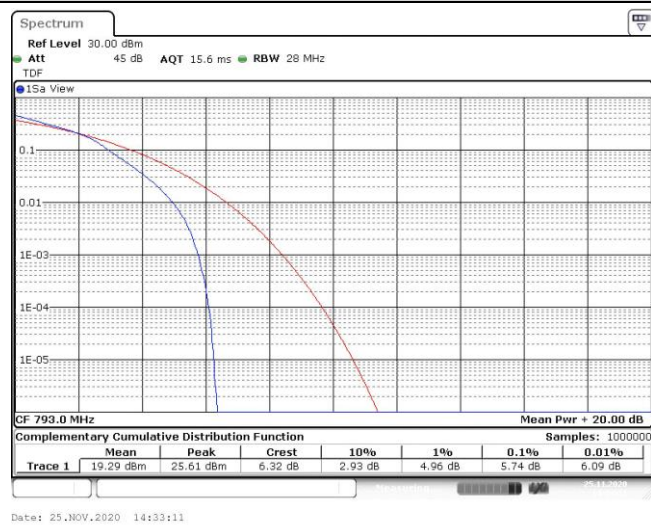




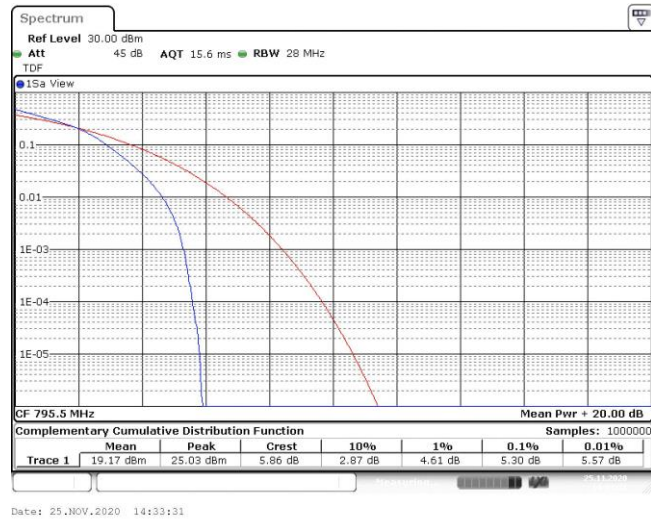
Band14-5MHz-16QAM-23305-25RB#0



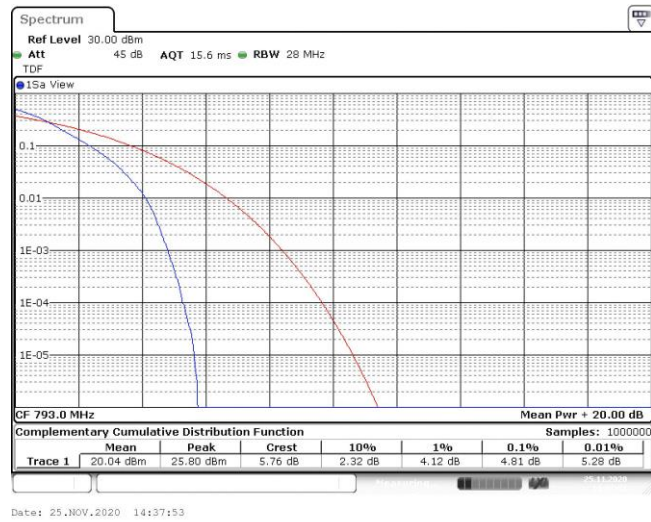
Band14-5MHz-16QAM-23330-25RB#0



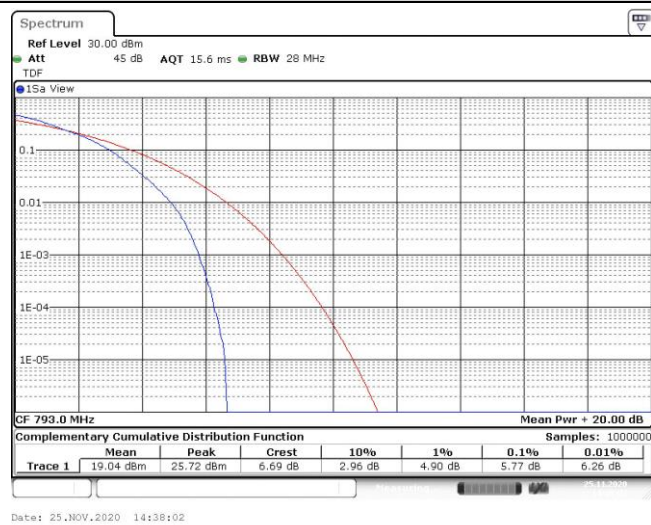
Band14-5MHz-16QAM-23355-25RB#0



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



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



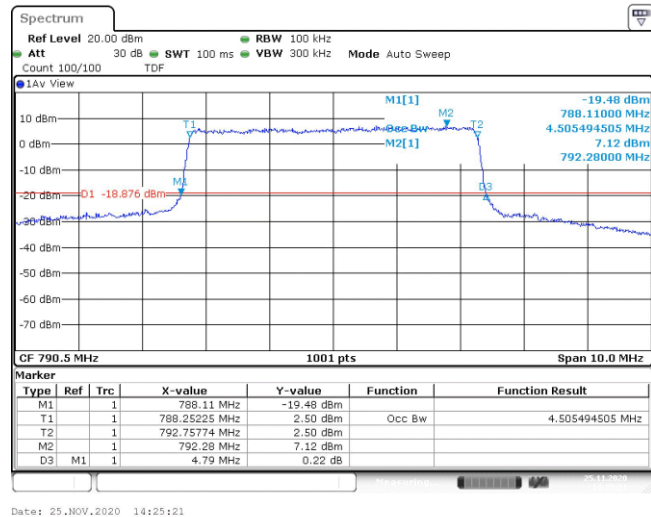
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

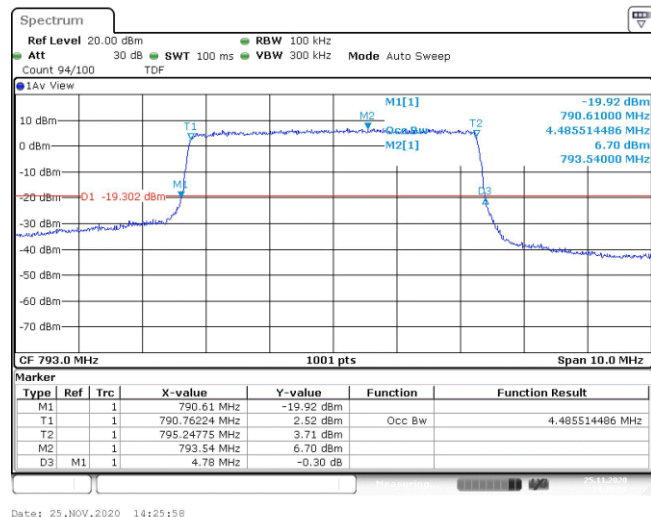
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.505	4.790	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.486	4.780	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.496	4.770	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.505	4.780	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.496	4.790	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.496	4.770	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.918	9.533	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.918	9.533	PASS

Test Graphs

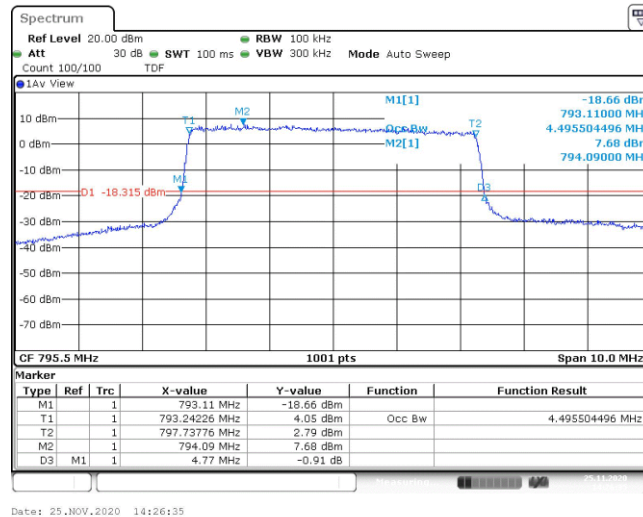
Band14-5MHz-QPSK-23305-25RB#0-4.505



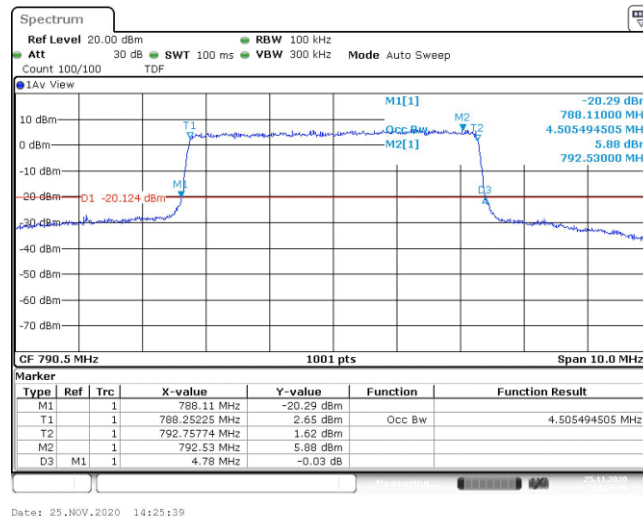
Band14-5MHz-QPSK-23330-25RB#0-4.486



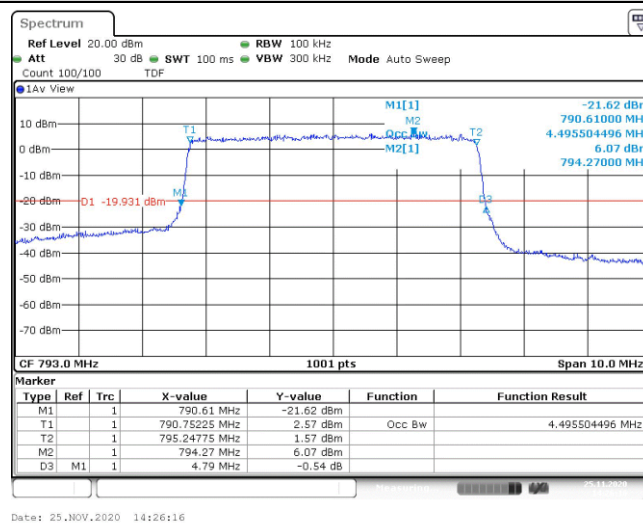
Band14-5MHz-QPSK-23355-25RB#0-4.496



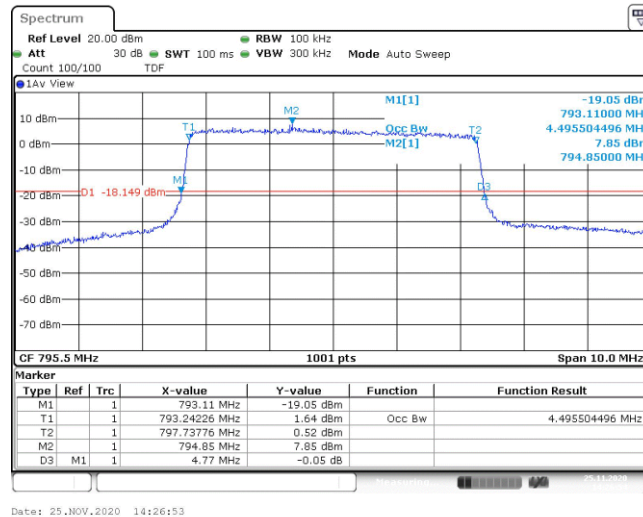
Band14-5MHz-16QAM-23305-25RB#0-4.505



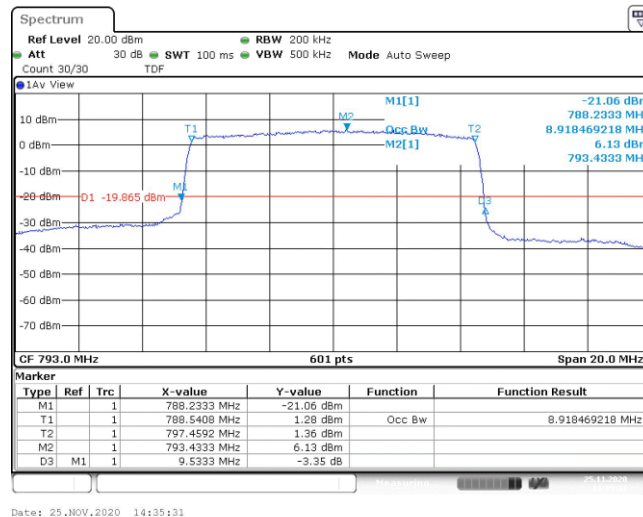
Band14-5MHz-16QAM-23330-25RB#0-4.496



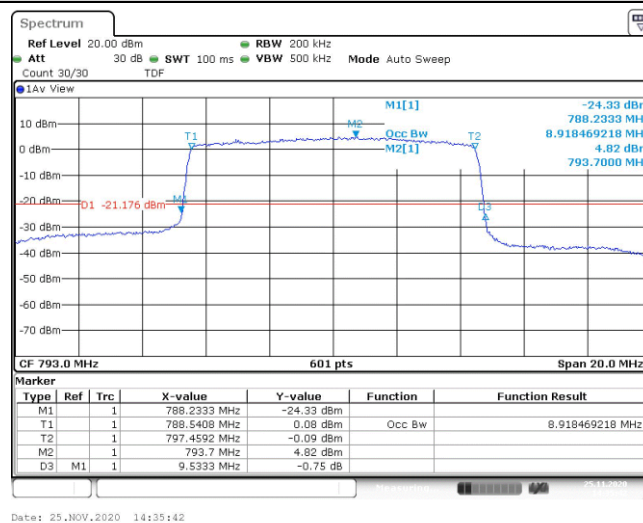
Band14-5MHz-16QAM-23355-25RB#0-4.496



Band14-10MHz-QPSK-23330-50RB#0-8.918



Band14-10MHz-16QAM-23330-50RB#0-8.918

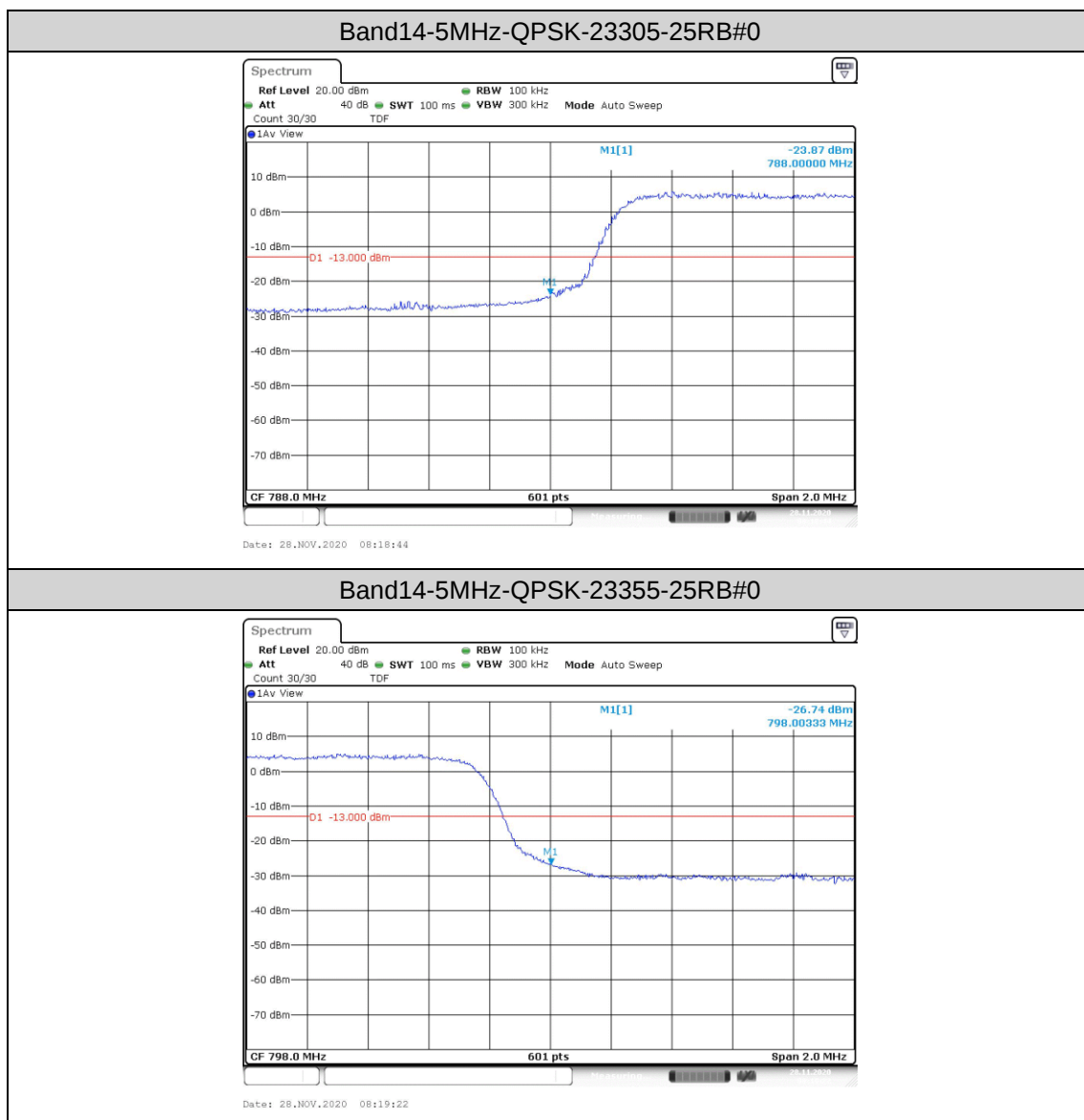


Appendix D: Band Edge

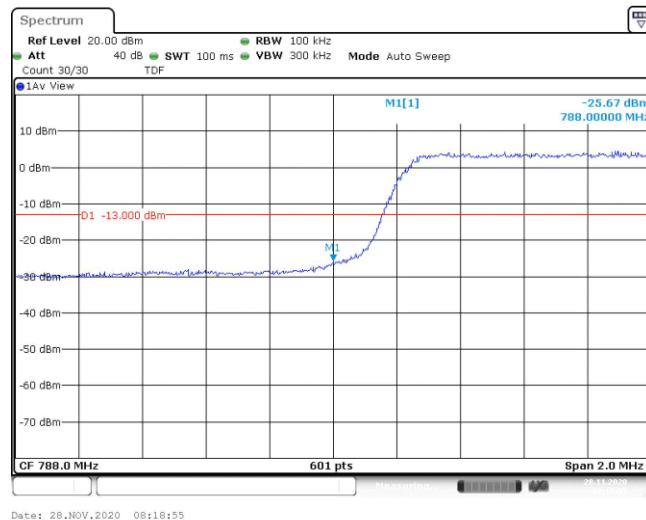
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	-23.87	PASS
Band14	5MHz	QPSK	23355	25RB#0	-26.74	PASS
Band14	5MHz	16QAM	23305	25RB#0	-25.67	PASS
Band14	5MHz	16QAM	23355	25RB#0	-27.56	PASS
Band14	10MHz	QPSK	23330	50RB#0	-26.81,-32.99	PASS
Band14	10MHz	16QAM	23330	50RB#0	-29.09,-33.84	PASS

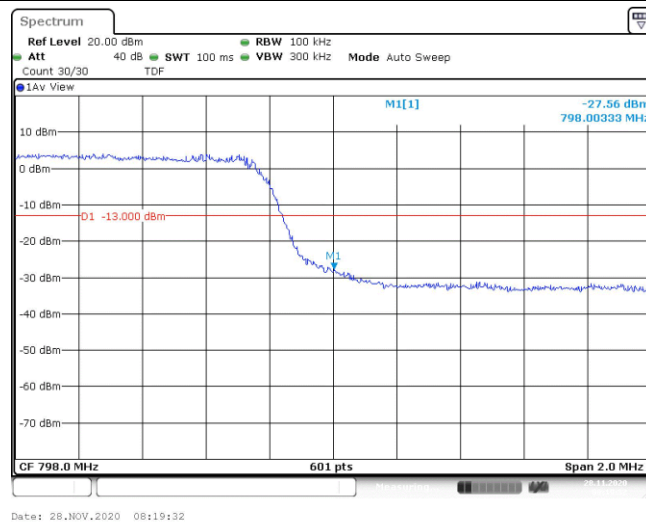
Test Graphs



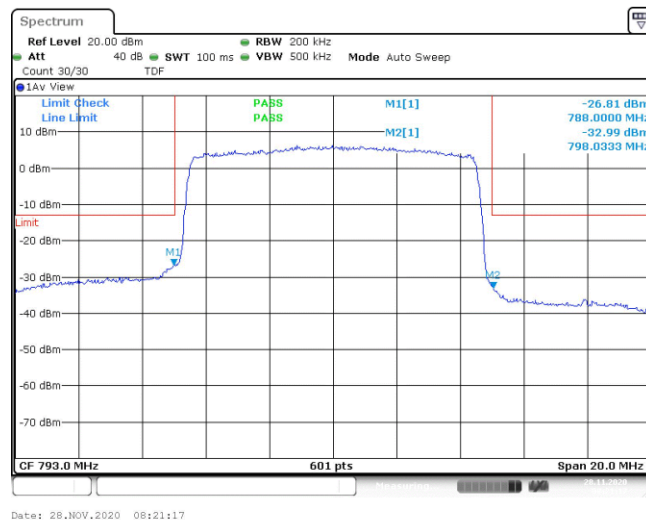
Band14-5MHz-16QAM-23305-25RB#0



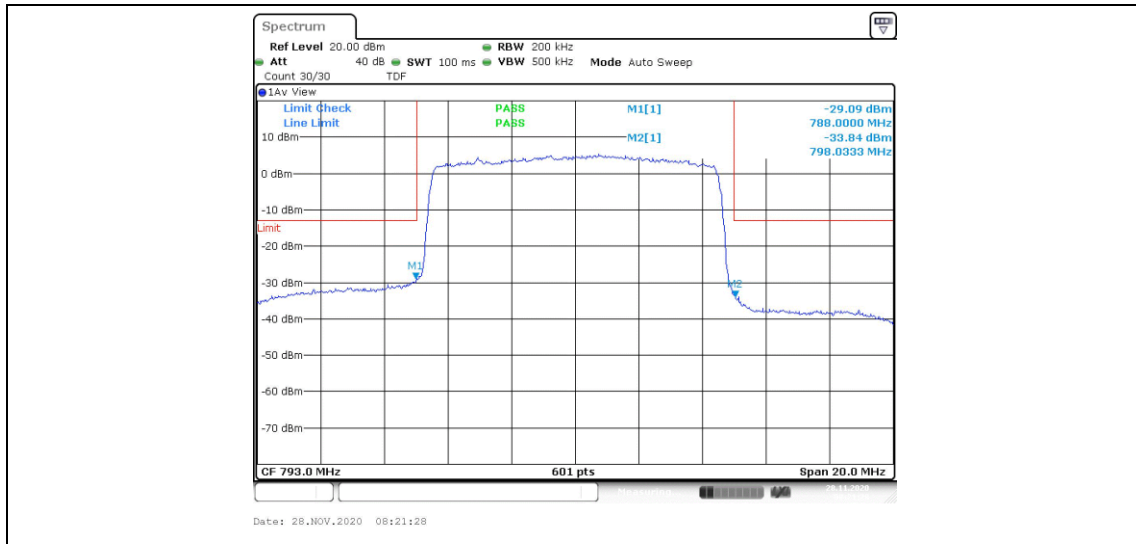
Band14-5MHz-16QAM-23355-25RB#0



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



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



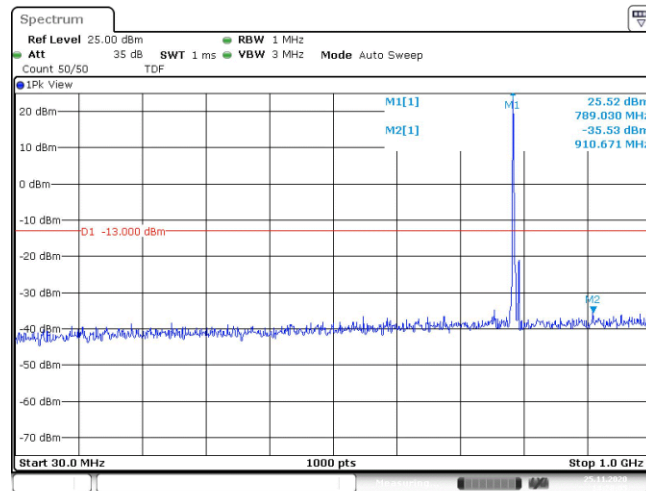
Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band1 4	5MHz	QPSK	23305	1RB#0	Range1:30~1000MHz	-35.5 3	PAS S
Band1 4	5MHz	QPSK	23305	1RB#0	Range2:1000~10000M Hz	-32.6 5	PAS S
Band1 4	5MHz	QPSK	23330	1RB#0	Range1:30~1000MHz	-35.4	PAS S
Band1 4	5MHz	QPSK	23330	1RB#0	Range2:1000~10000M Hz	-31.7 8	PAS S
Band1 4	5MHz	QPSK	23355	1RB#0	Range1:30~1000MHz	-36.2 7	PAS S
Band1 4	5MHz	QPSK	23355	1RB#0	Range2:1000~10000M Hz	-34.6 9	PAS S
Band1 4	5MHz	16QAM	23305	1RB#0	Range1:30~1000MHz	-35.8 2	PAS S
Band1 4	5MHz	16QAM	23305	1RB#0	Range2:1000~10000M Hz	-32.4 2	PAS S
Band1 4	5MHz	16QAM	23330	1RB#0	Range1:30~1000MHz	-36.1 1	PAS S
Band1 4	5MHz	16QAM	23330	1RB#0	Range2:1000~10000M Hz	-33.1 2	PAS S
Band1 4	5MHz	16QAM	23355	1RB#0	Range1:30~1000MHz	-35.8 5	PAS S
Band1 4	5MHz	16QAM	23355	1RB#0	Range2:1000~10000M Hz	-34.6 1	PAS S
Band1 4	10MHz	QPSK	23330	1RB#0	Range1:30~1000MHz	-35.2 9	PAS S
Band1 4	10MHz	QPSK	23330	1RB#0	Range2:1000~10000M Hz	-32.1 4	PAS S
Band1 4	10MHz	16QAM	23330	1RB#0	Range1:30~1000MHz	-35.7 8	PAS S
Band1 4	10MHz	16QAM	23330	1RB#0	Range2:1000~10000M Hz	-34.0 4	PAS S

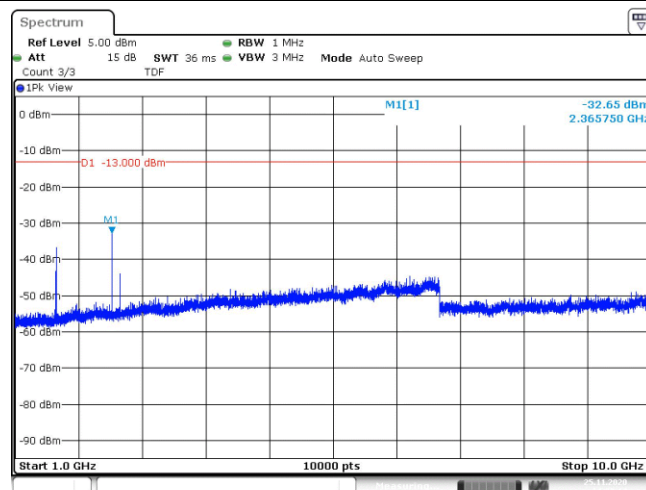
Test Graphs

Band14-5MHz-QPSK-23305-1RB#0-Range1:30~1000MHz



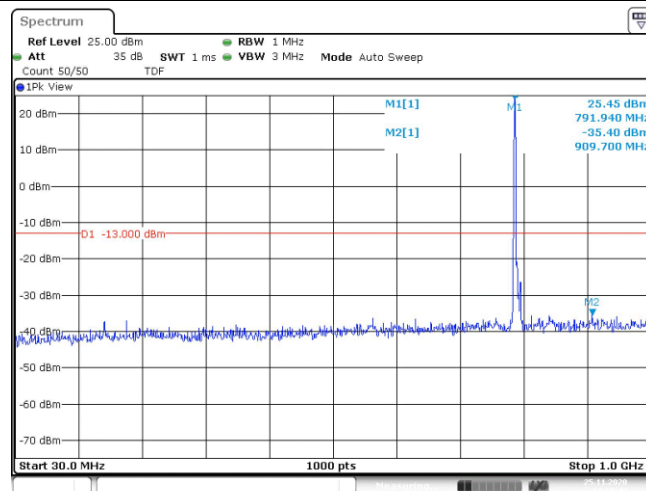
Date: 25.NOV.2020 14:28:05

Band14-5MHz-QPSK-23305-1RB#0-Range2:1000~10000MHz



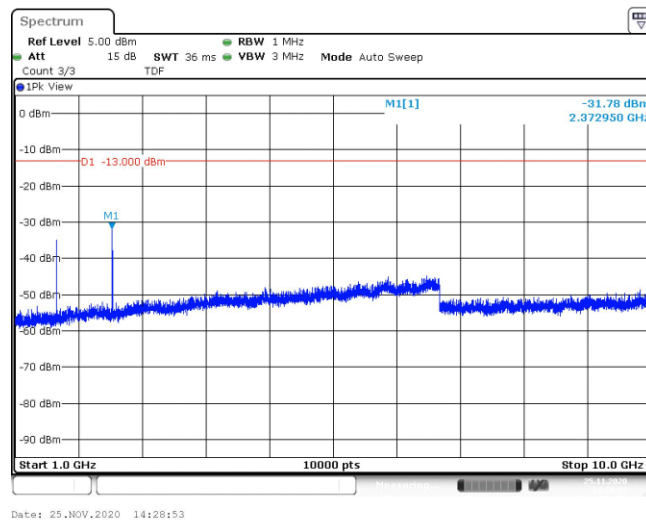
Date: 25.NOV.2020 14:28:14

Band14-5MHz-QPSK-23330-1RB#0-Range1:30~1000MHz

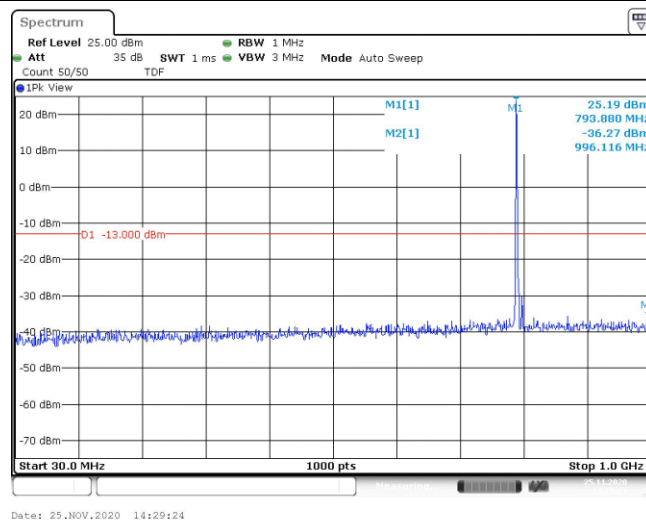


Date: 25.NOV.2020 14:28:45

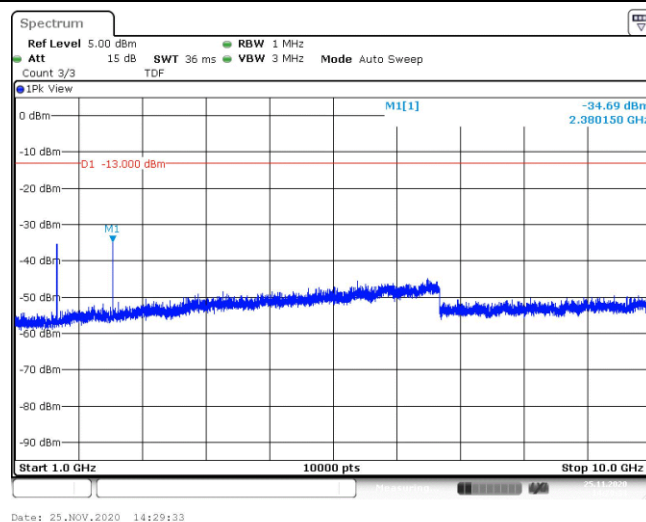
Band14-5MHz-QPSK-23330-1RB#0-Range2:1000~10000MHz



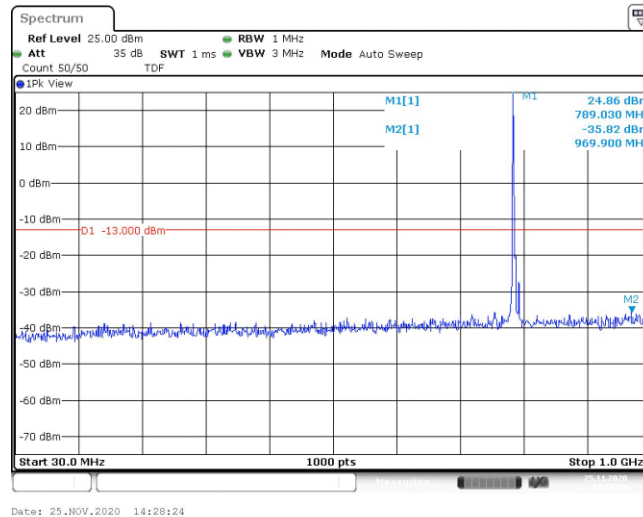
Band14-5MHz-QPSK-23355-1RB#0-Range1:30~1000MHz



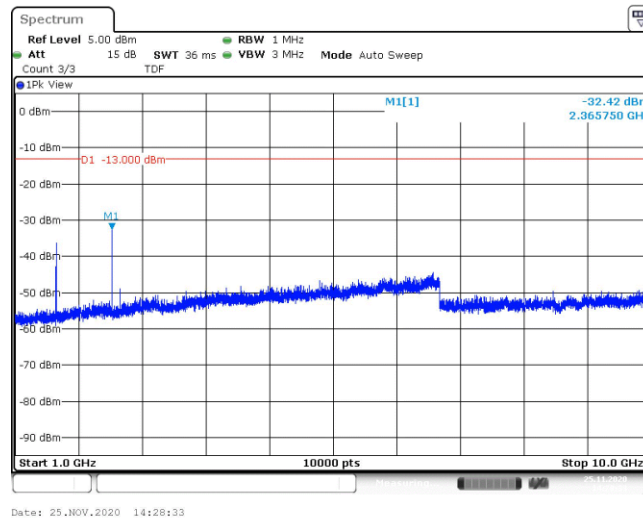
Band14-5MHz-QPSK-23355-1RB#0-Range2:1000~10000MHz



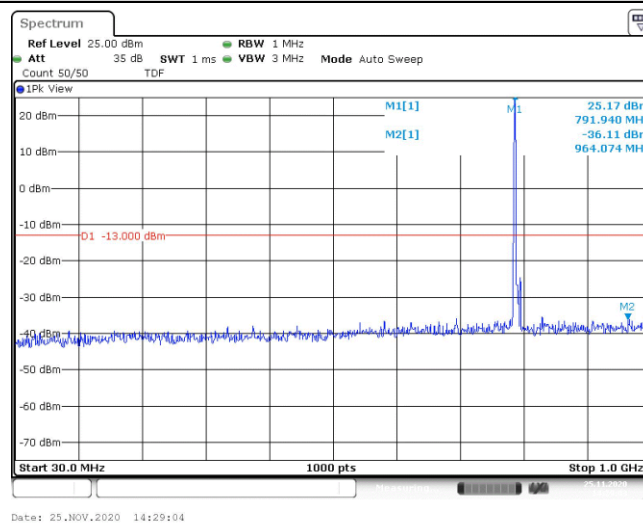
Band14-5MHz-16QAM-23305-1RB#0-Range1:30~1000MHz



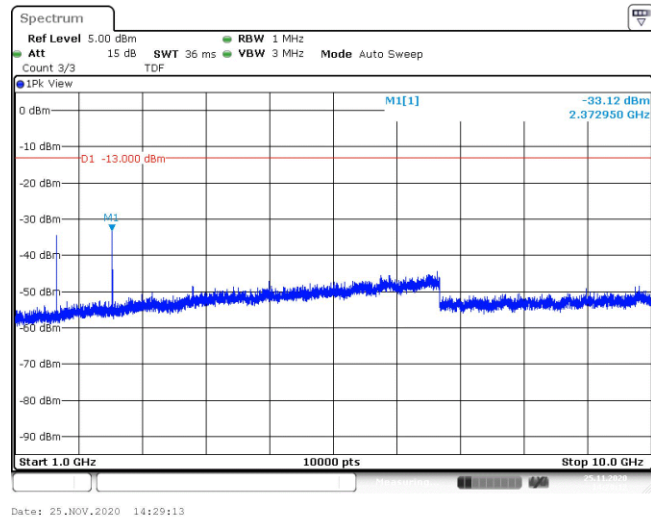
Band14-5MHz-16QAM-23305-1RB#0-Range2:1000~10000MHz



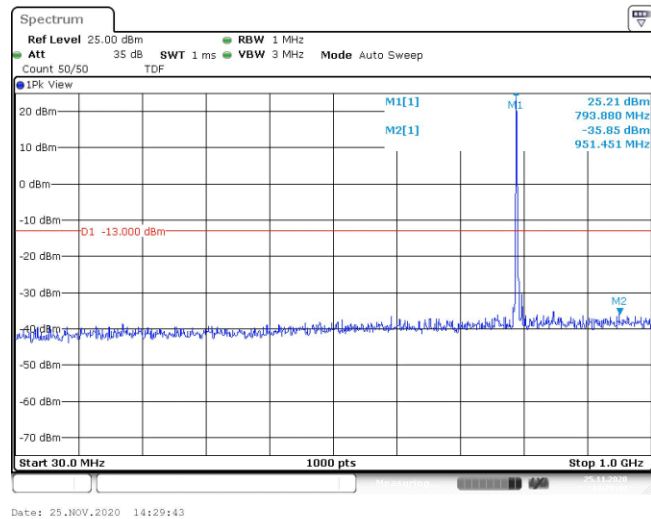
Band14-5MHz-16QAM-23330-1RB#0-Range1:30~1000MHz



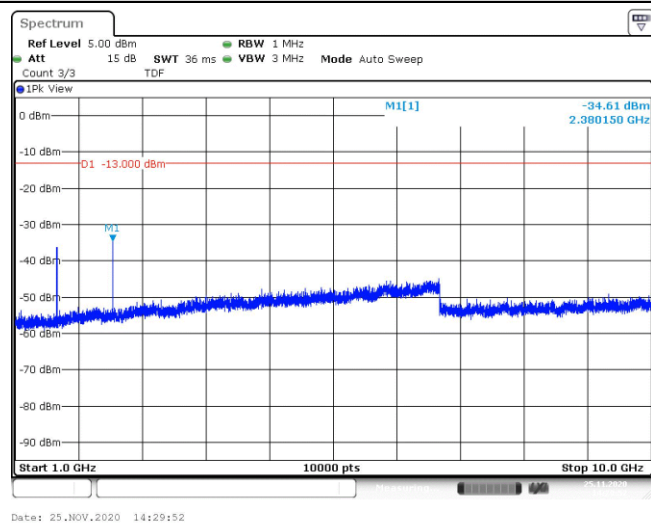
Band14-5MHz-16QAM-23330-1RB#0-Range2:1000~10000MHz



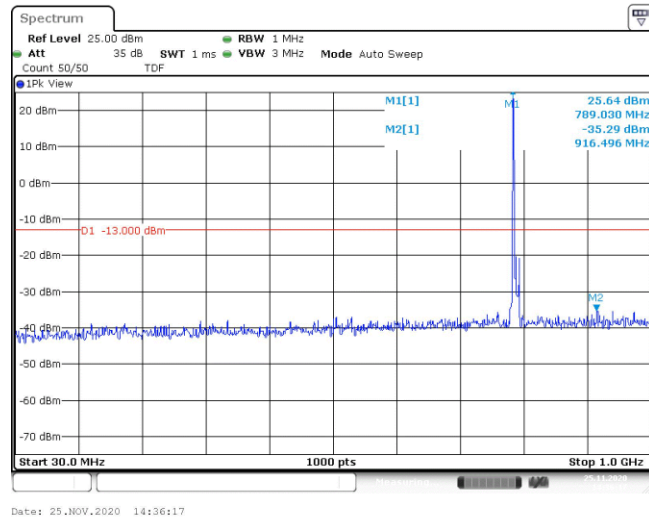
Band14-5MHz-16QAM-23355-1RB#0-Range1:30~1000MHz



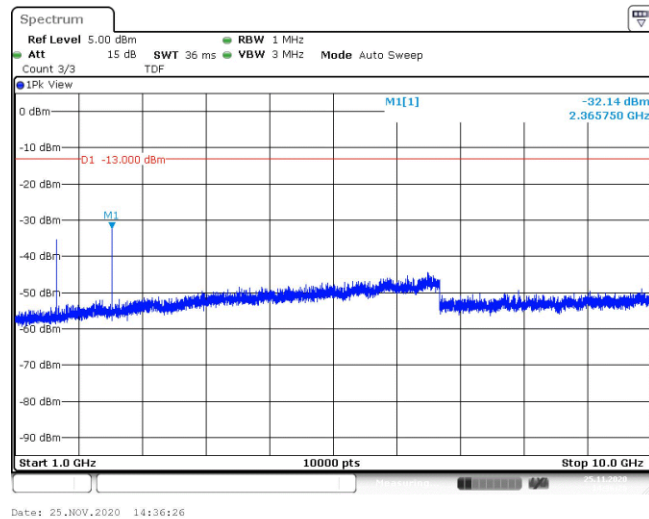
Band14-5MHz-16QAM-23355-1RB#0-Range2:1000~10000MHz



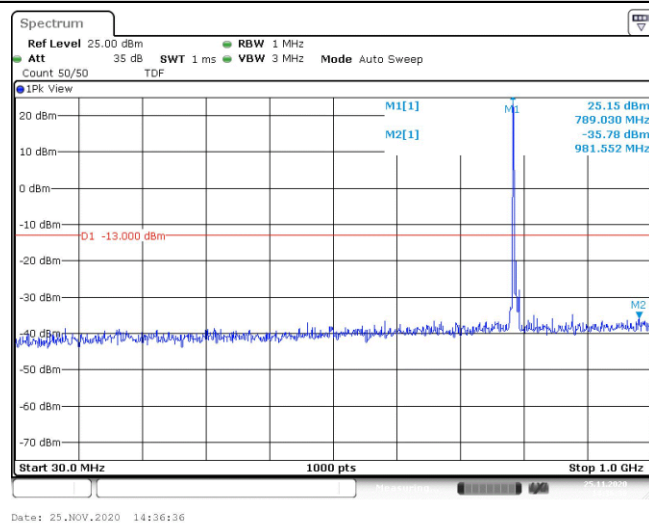
Band14-10MHz-QPSK-23330-1RB#0-Range1:30~1000MHz



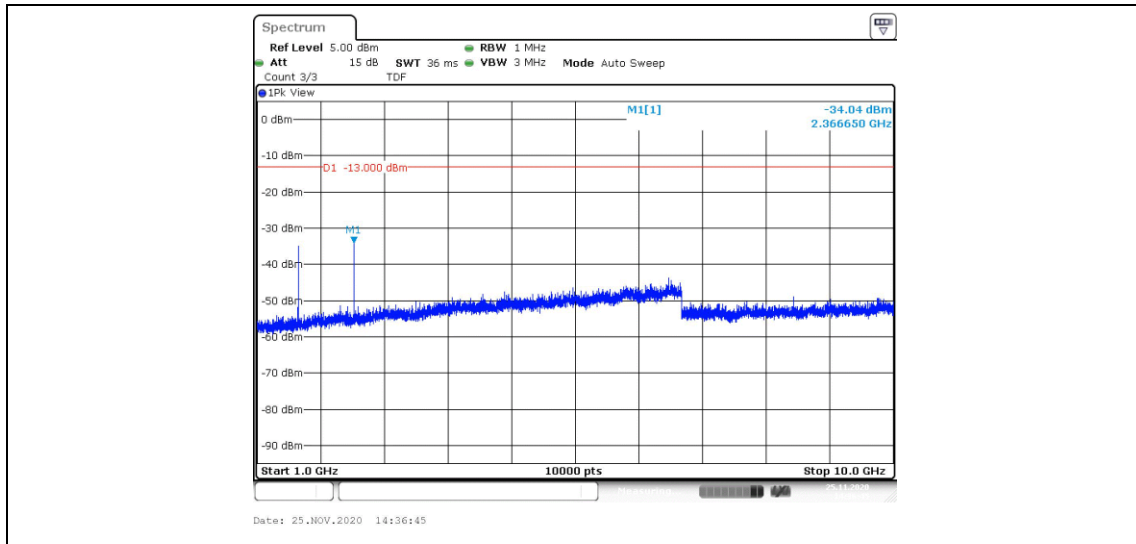
Band14-10MHz-QPSK-23330-1RB#0-Range2:1000~10000MHz



Band14-10MHz-16QAM-23330-1RB#0-Range1:30~1000MHz



Band14-10MHz-16QAM-23330-1RB#0-Range2:1000~10000MHz



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band1_4	5MHz	QPSK	23305	25RB#0	VL	NT	-3.42	-0.004326	±2.5	PASS
Band1_4	5MHz	QPSK	23305	25RB#0	VN	NT	2.47	0.003125	±2.5	PASS
Band1_4	5MHz	QPSK	23305	25RB#0	VH	NT	-2.42	-0.003061	±2.5	PASS
Band1_4	5MHz	QPSK	23330	25RB#0	VL	NT	-3.32	-0.004187	±2.5	PASS
Band1_4	5MHz	QPSK	23330	25RB#0	VN	NT	-2.80	-0.003531	±2.5	PASS
Band1_4	5MHz	QPSK	23330	25RB#0	VH	NT	-3.15	-0.003972	±2.5	PASS
Band1_4	5MHz	QPSK	23355	25RB#0	VL	NT	1.32	0.001659	±2.5	PASS
Band1_4	5MHz	QPSK	23355	25RB#0	VN	NT	2.00	0.002514	±2.5	PASS
Band1_4	5MHz	QPSK	23355	25RB#0	VH	NT	-2.68	-0.003369	±2.5	PASS
Band1_4	5MHz	16QAM	23305	25RB#0	VL	NT	-4.23	-0.005351	±2.5	PASS
Band1_4	5MHz	16QAM	23305	25RB#0	VN	NT	-3.82	-0.004832	±2.5	PASS
Band1_4	5MHz	16QAM	23305	25RB#0	VH	NT	-4.92	-0.006224	±2.5	PASS
Band1_4	5MHz	16QAM	23330	25RB#0	VL	NT	-3.28	-0.004136	±2.5	PASS
Band1_4	5MHz	16QAM	23330	25RB#0	VN	NT	-3.42	-0.004313	±2.5	PASS
Band1_4	5MHz	16QAM	23330	25RB#0	VH	NT	-1.99	-0.002509	±2.5	PASS
Band1_4	5MHz	16QAM	23355	25RB#0	VL	NT	2.82	0.003545	±2.5	PASS
Band1_4	5MHz	16QAM	23355	25RB#0	VN	NT	-1.97	-0.002476	±2.5	PASS
Band1	5MHz	16QAM	23355	25RB#0	VH	NT	1.54	0.001936	±2.5	PASS

4										
Band1 4	10MHz	QPSK	23330	50RB#0	VL	NT	-5.16	-0.006507	±2.5	PASS
Band1 4	10MHz	QPSK	23330	50RB#0	VN	NT	-2.56	-0.003228	±2.5	PASS
Band1 4	10MHz	QPSK	23330	50RB#0	VH	NT	-2.80	-0.003531	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	VL	NT	2.70	0.003405	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	VN	NT	-2.79	-0.003518	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	VH	NT	-2.96	-0.003733	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 4	5MHz	QPSK	23305	25RB#0	NV	-30	-4.35	-0.005503	±2.5	PASS
Band1 4	5MHz	QPSK	23305	25RB#0	NV	-20	-2.80	-0.003542	±2.5	PASS
Band1 4	5MHz	QPSK	23305	25RB#0	NV	0	-2.89	-0.003656	±2.5	PASS
Band1 4	5MHz	QPSK	23305	25RB#0	NV	10	-3.28	-0.004149	±2.5	PASS
Band1 4	5MHz	QPSK	23305	25RB#0	NV	20	-2.32	-0.002935	±2.5	PASS
Band1 4	5MHz	QPSK	23330	25RB#0	NV	-30	1.34	0.001690	±2.5	PASS
Band1 4	5MHz	QPSK	23330	25RB#0	NV	-20	-2.27	-0.002863	±2.5	PASS
Band1 4	5MHz	QPSK	23330	25RB#0	NV	0	-2.06	-0.002598	±2.5	PASS
Band1 4	5MHz	QPSK	23330	25RB#0	NV	10	-2.99	-0.003770	±2.5	PASS
Band1 4	5MHz	QPSK	23330	25RB#0	NV	20	-3.88	-0.004893	±2.5	PASS
Band1 4	5MHz	QPSK	23355	25RB#0	NV	-30	-2.12	-0.002665	±2.5	PASS
Band1 4	5MHz	QPSK	23355	25RB#0	NV	-20	-1.86	-0.002338	±2.5	PASS
Band1	5MHz	QPSK	23355	25RB#0	NV	0	-1.37	-0.001722	±2.5	PASS

4										
Band1 4	5MHz	QPSK	23355	25RB#0	NV	10	-1.96	-0.002464	±2.5	PASS
Band1 4	5MHz	QPSK	23355	25RB#0	NV	20	1.53	0.001923	±2.5	PASS
Band1 4	5MHz	16QAM	23305	25RB#0	NV	-30	-4.63	-0.005857	±2.5	PASS
Band1 4	5MHz	16QAM	23305	25RB#0	NV	-20	-3.49	-0.004415	±2.5	PASS
Band1 4	5MHz	16QAM	23305	25RB#0	NV	0	-4.46	-0.005642	±2.5	PASS
Band1 4	5MHz	16QAM	23305	25RB#0	NV	10	-3.30	-0.004175	±2.5	PASS
Band1 4	5MHz	16QAM	23305	25RB#0	NV	20	-3.50	-0.004428	±2.5	PASS
Band1 4	5MHz	16QAM	23330	25RB#0	NV	-30	-1.82	-0.002295	±2.5	PASS
Band1 4	5MHz	16QAM	23330	25RB#0	NV	-20	1.52	0.001917	±2.5	PASS
Band1 4	5MHz	16QAM	23330	25RB#0	NV	0	-2.33	-0.002938	±2.5	PASS
Band1 4	5MHz	16QAM	23330	25RB#0	NV	10	-3.10	-0.003909	±2.5	PASS
Band1 4	5MHz	16QAM	23330	25RB#0	NV	20	-3.40	-0.004288	±2.5	PASS
Band1 4	5MHz	16QAM	23355	25RB#0	NV	-30	-1.90	-0.002388	±2.5	PASS
Band1 4	5MHz	16QAM	23355	25RB#0	NV	-20	-2.22	-0.002791	±2.5	PASS
Band1 4	5MHz	16QAM	23355	25RB#0	NV	0	-1.89	-0.002376	±2.5	PASS
Band1 4	5MHz	16QAM	23355	25RB#0	NV	10	-2.42	-0.003042	±2.5	PASS
Band1 4	5MHz	16QAM	23355	25RB#0	NV	20	-3.00	-0.003771	±2.5	PASS
Band1 4	10MHz	QPSK	23330	50RB#0	NV	-30	-3.03	-0.003821	±2.5	PASS
Band1 4	10MHz	QPSK	23330	50RB#0	NV	-20	-2.95	-0.003720	±2.5	PASS
Band1 4	10MHz	QPSK	23330	50RB#0	NV	0	3.53	0.004451	±2.5	PASS
Band1 4	10MHz	QPSK	23330	50RB#0	NV	10	-3.72	-0.004691	±2.5	PASS

Band1 4	10MHz	QPSK	23330	50RB#0	NV	20	-3.83	-0.004830	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	NV	-30	1.90	0.002396	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	NV	-20	-2.95	-0.003720	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	NV	0	3.52	0.004439	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	NV	10	2.37	0.002989	±2.5	PASS
Band1 4	10MHz	16QAM	23330	50RB#0	NV	20	1.97	0.002484	±2.5	PASS