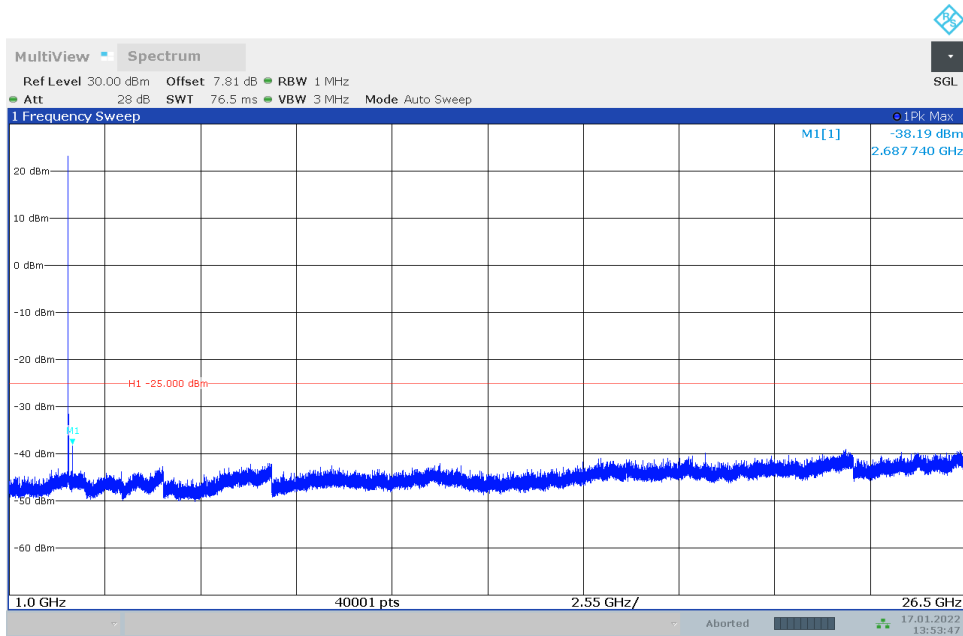
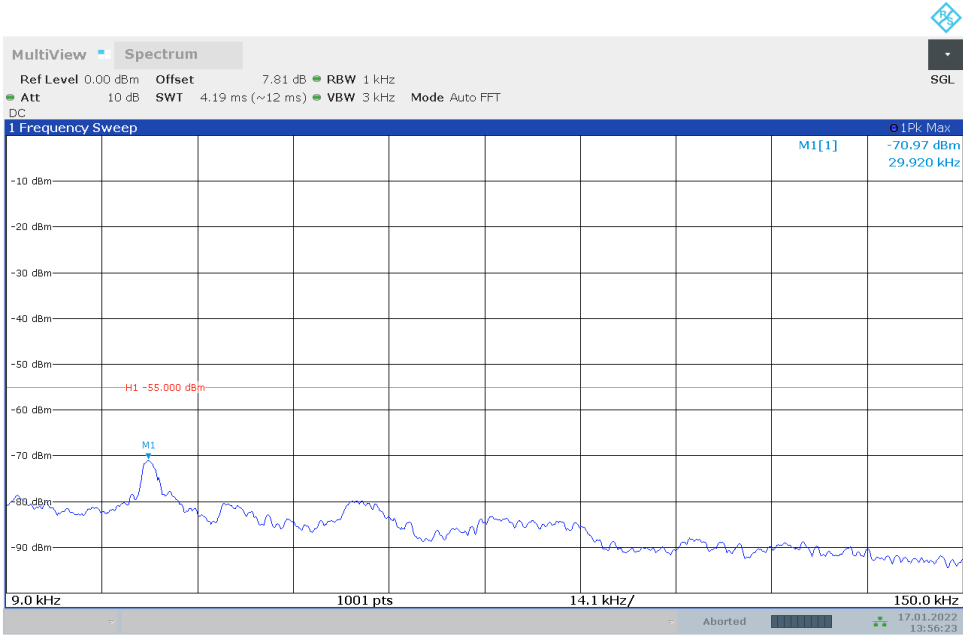


13:53:12 17.01.2022

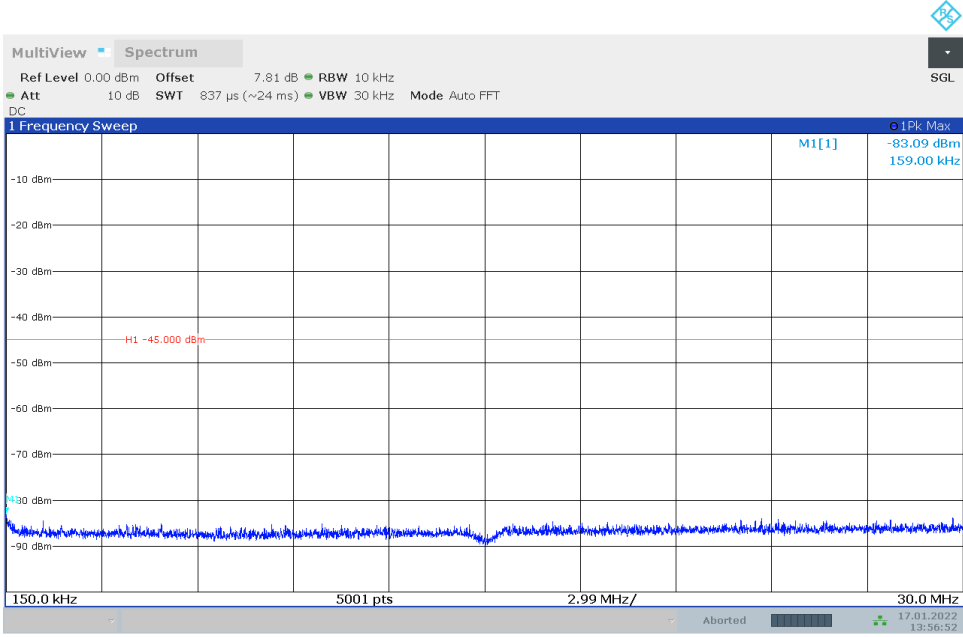


13:53:47 17.01.2022

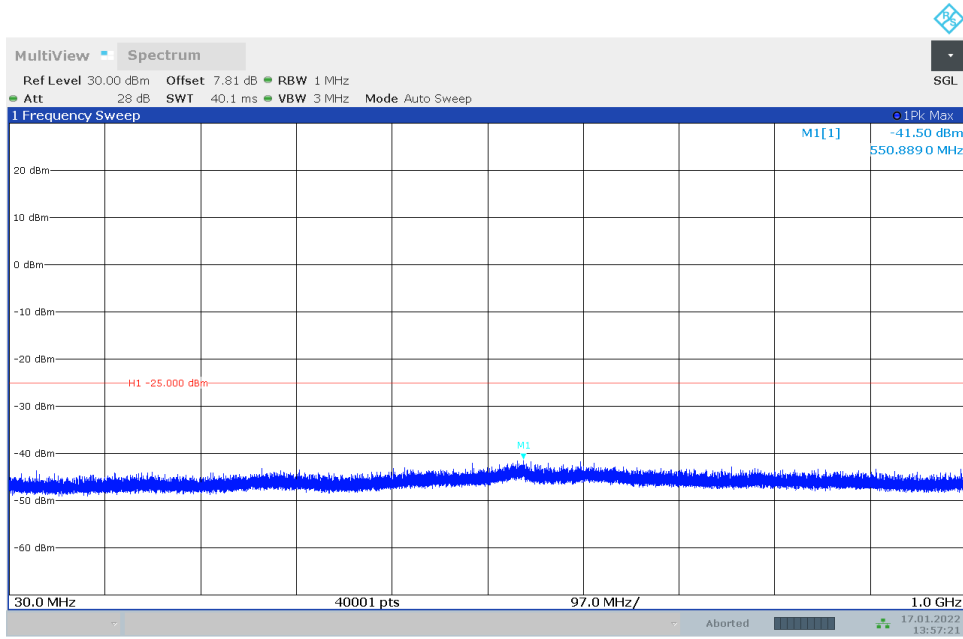
## 6.2.27 BAND 7\_TM2\_5MHZ\_HCH\_RB25#0



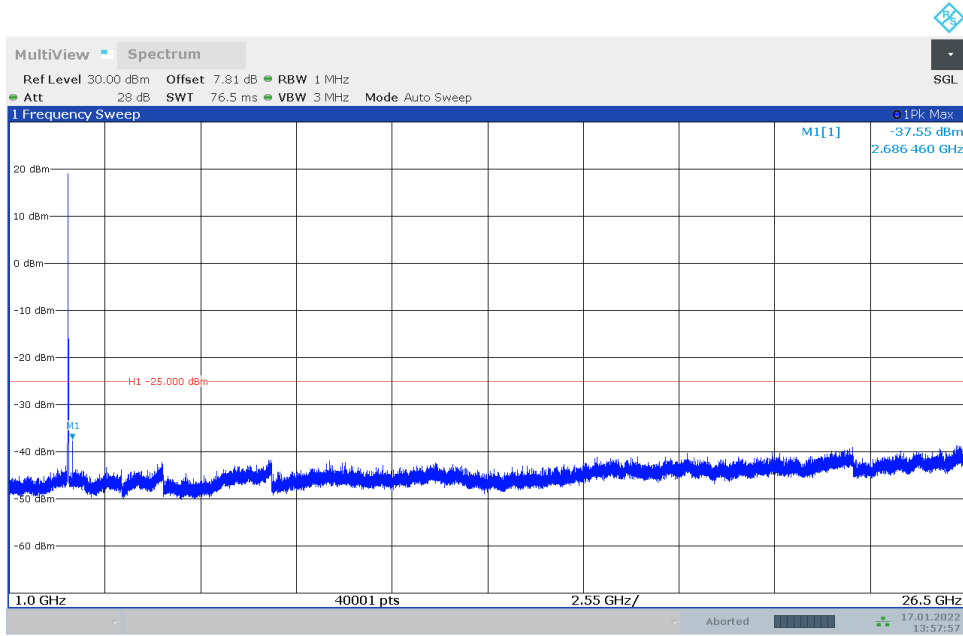
13:56:23 17.01.2022



13:56:53 17.01.2022

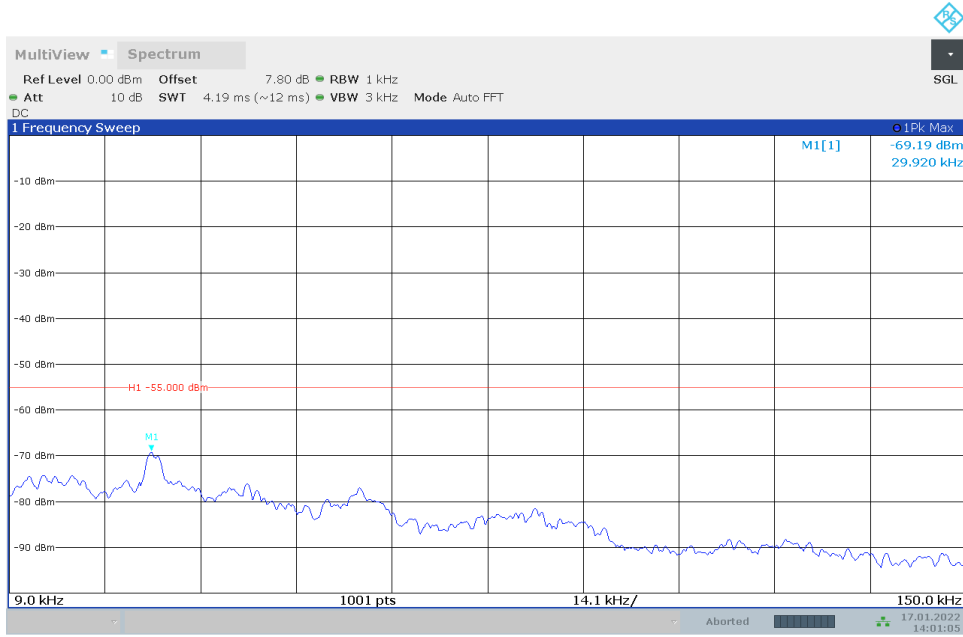


13:57:22 17.01.2022

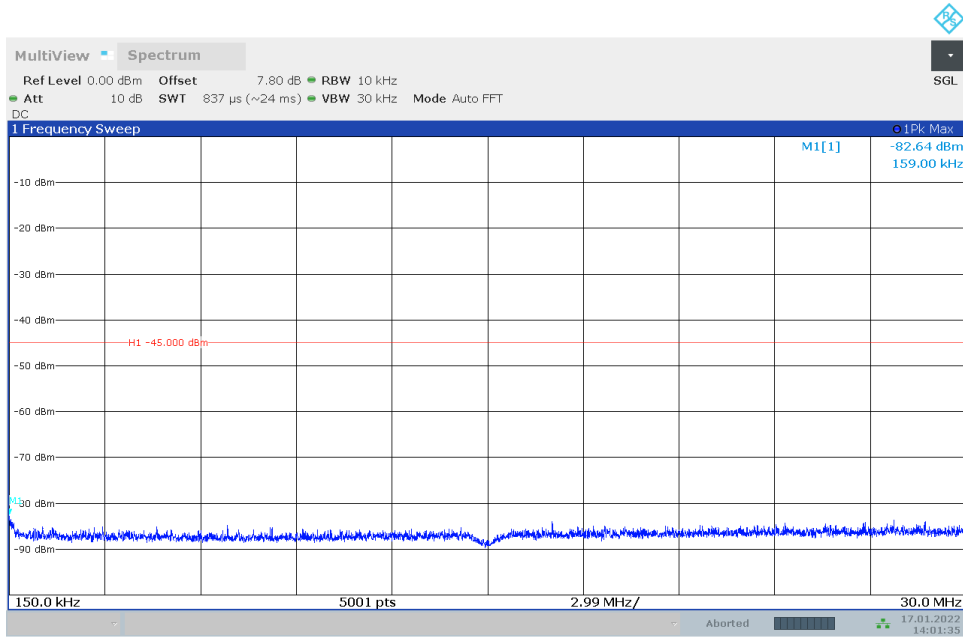


13:57:57 17.01.2022

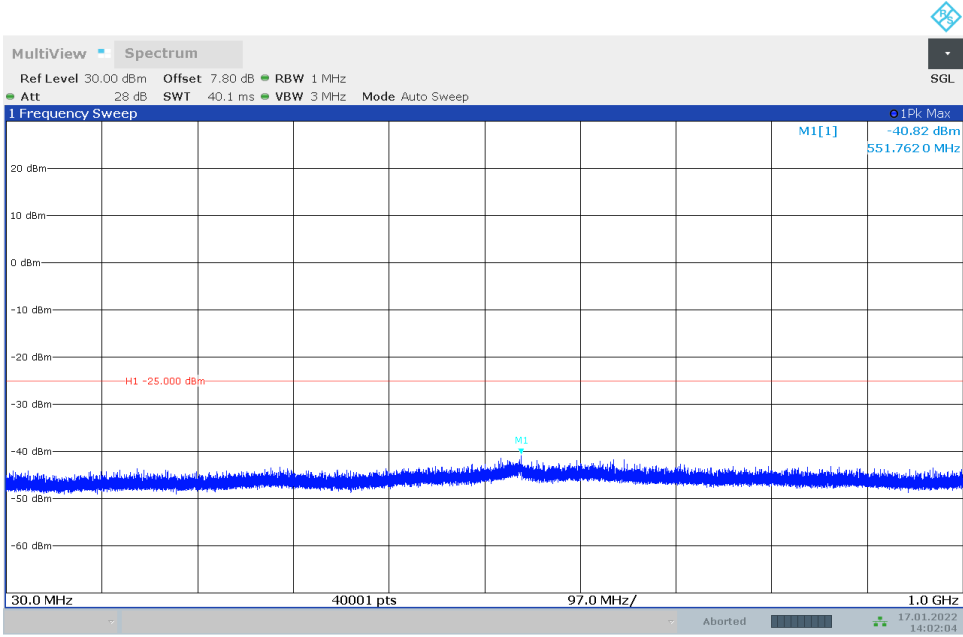
## 6.2.28 BAND 7\_TM2\_20MHZ\_LCH\_RB1#0



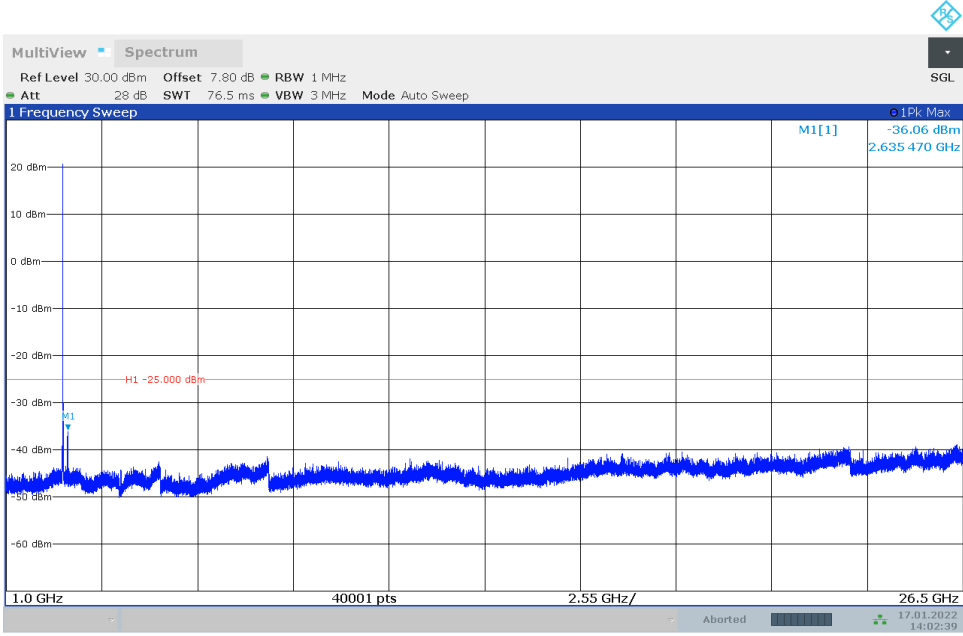
14:01:06 17.01.2022



14:01:36 17.01.2022

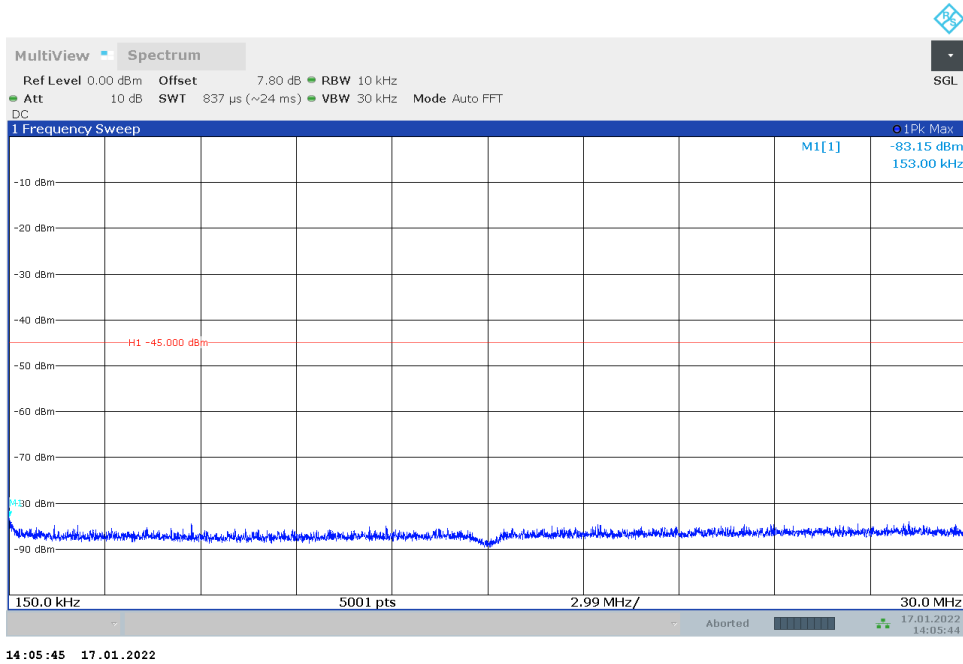


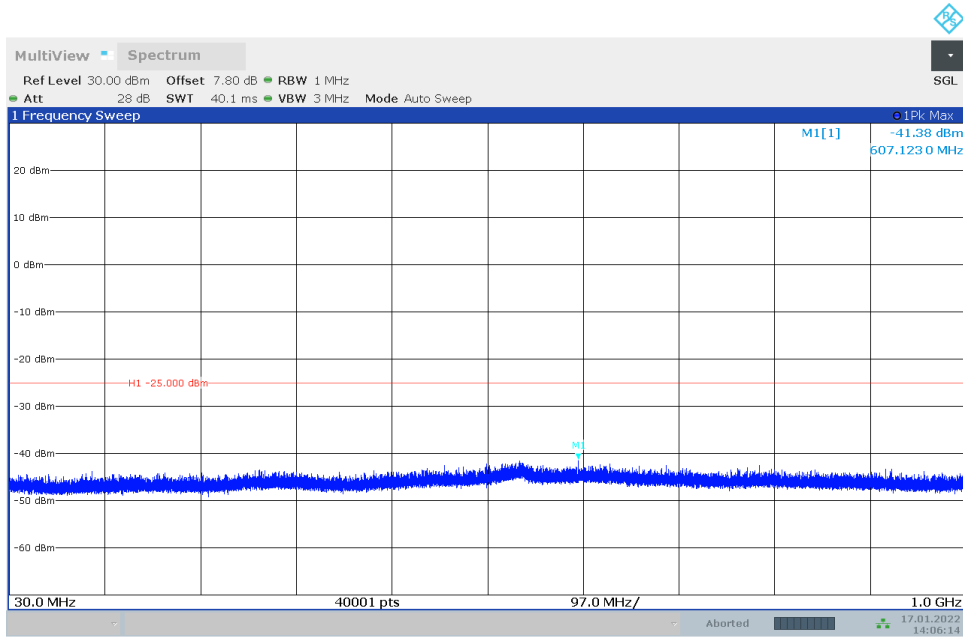
14:02:05 17.01.2022



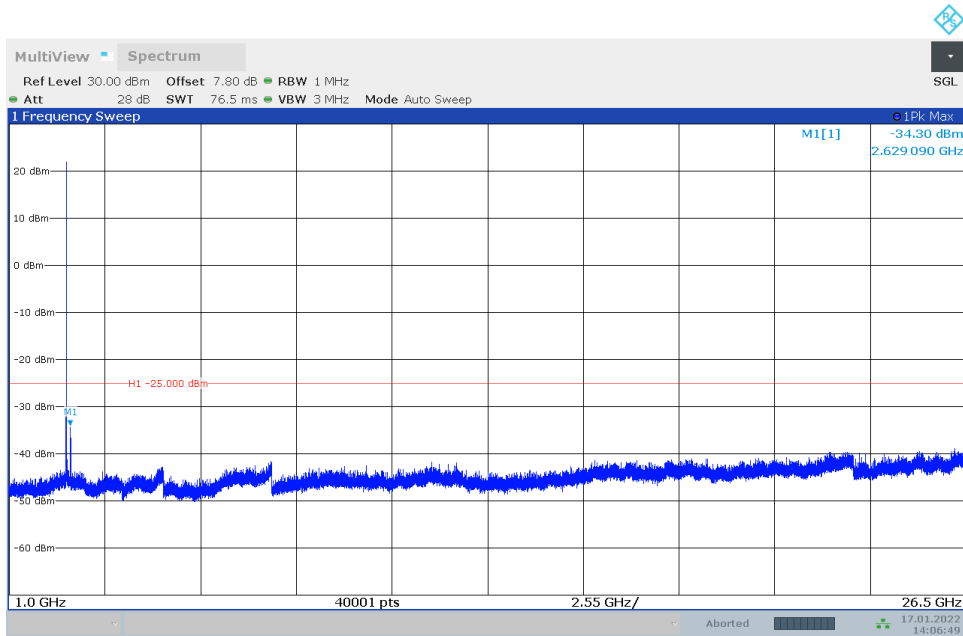
14:02:40 17.01.2022

## 6.2.29 BAND 7\_TM2\_20MHZ\_LCH\_RB1#99



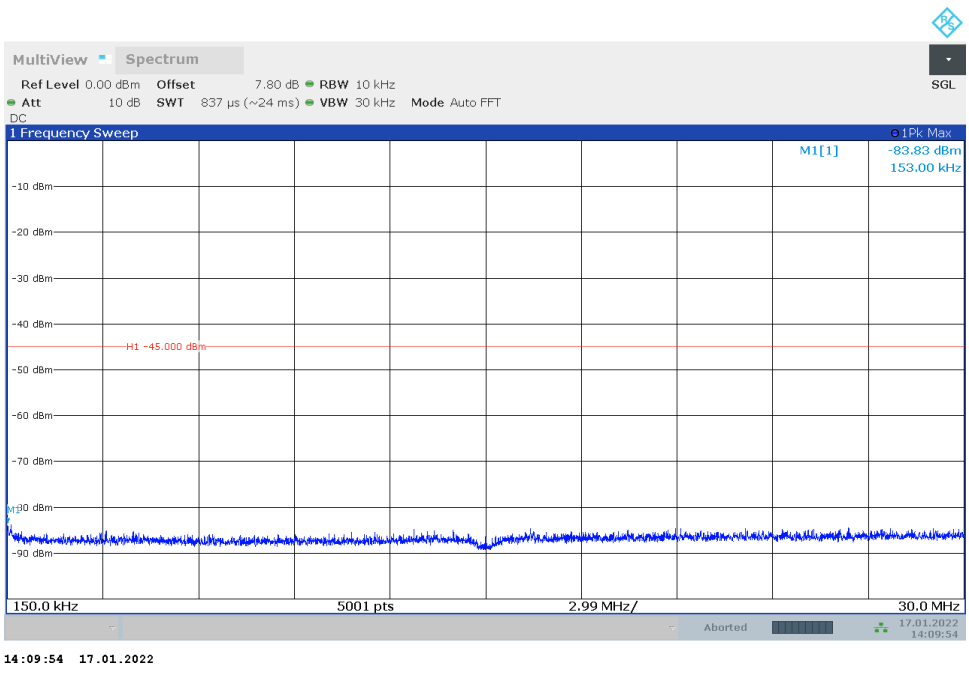


14:06:14 17.01.2022

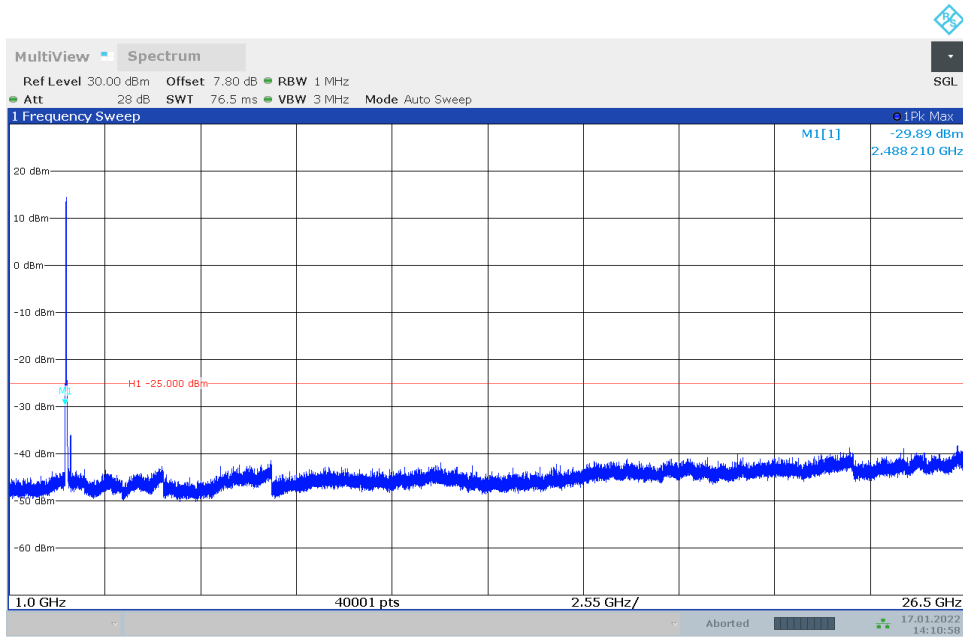
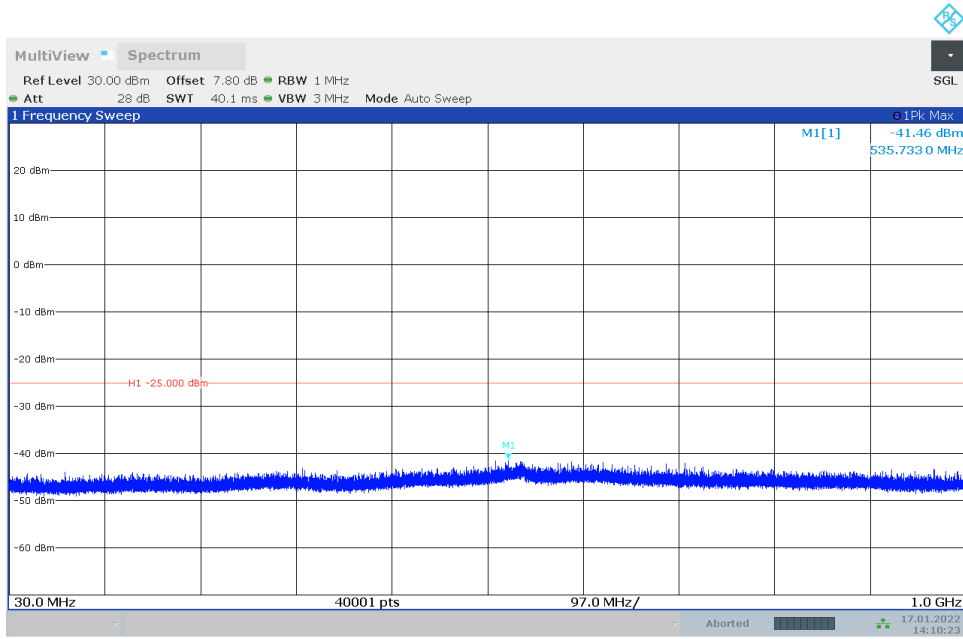


14:06:49 17.01.2022

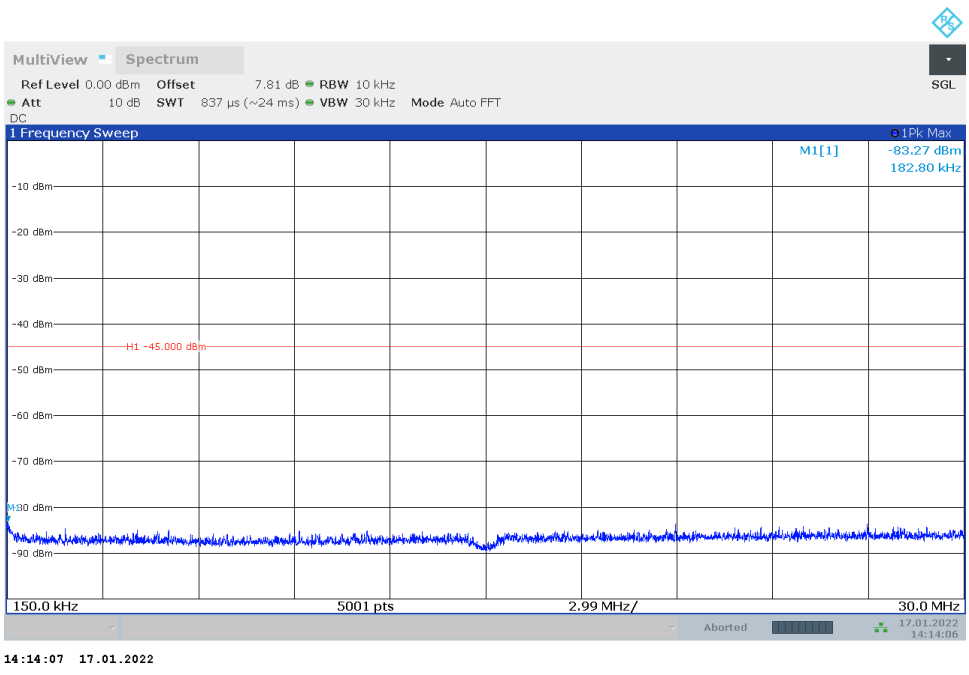
## 6.2.30 BAND 7\_TM2\_20MHZ\_LCH\_RB100#0

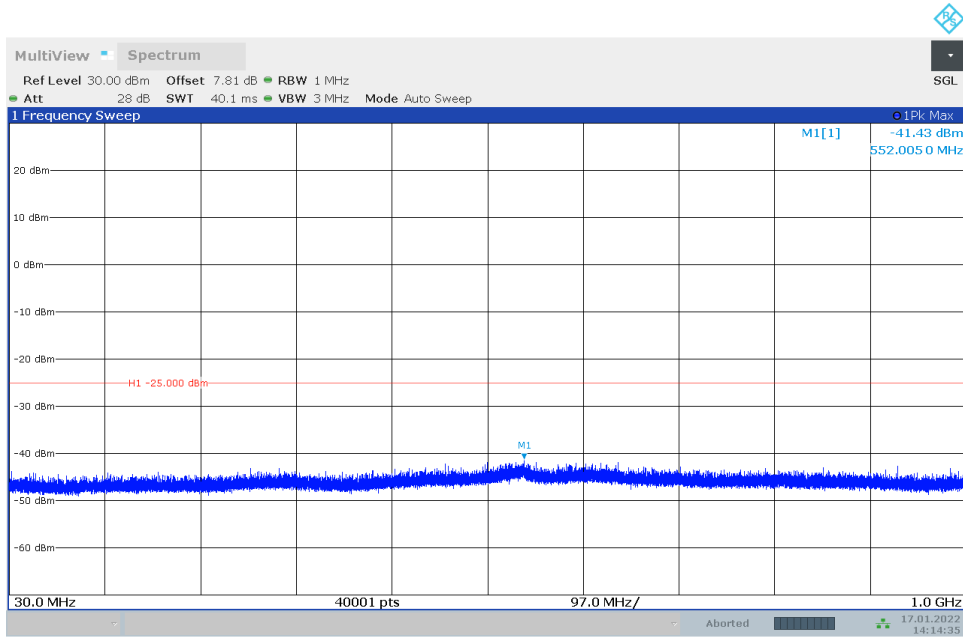




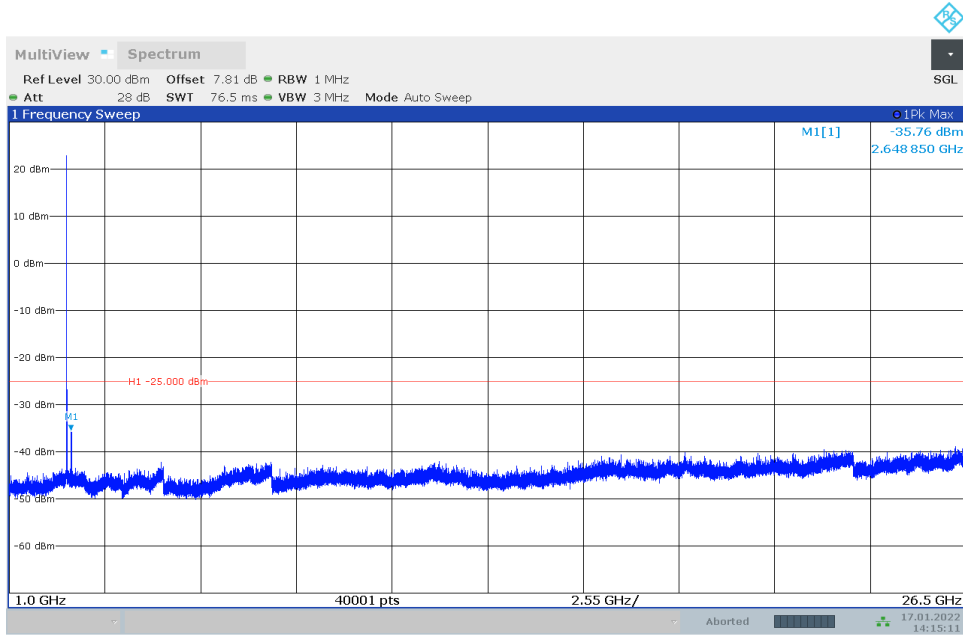


## 6.2.31 BAND 7\_TM2\_20MHZ\_MCH\_RB1#0





14:14:36 17.01.2022

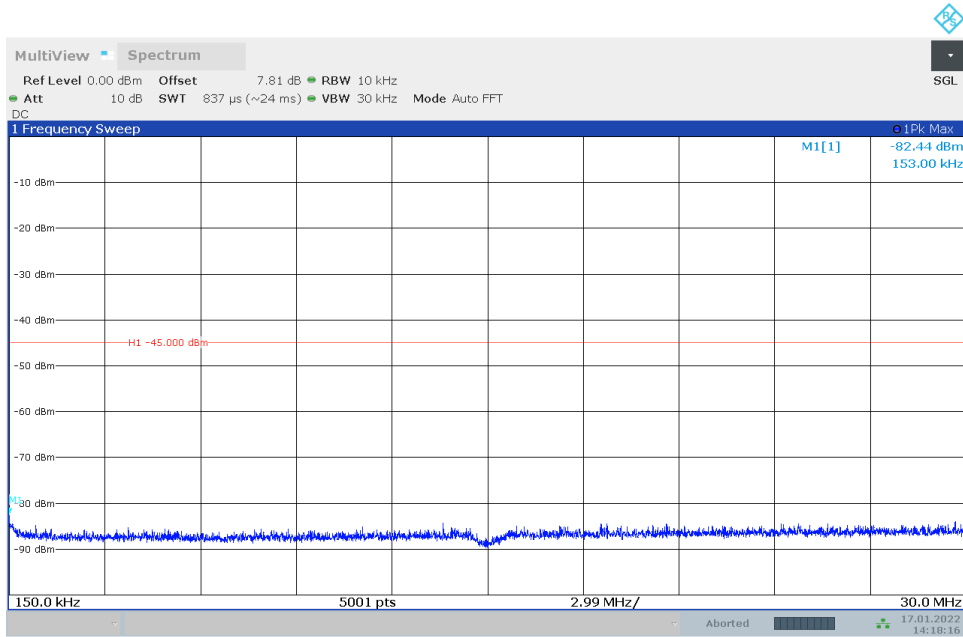


14:15:11 17.01.2022

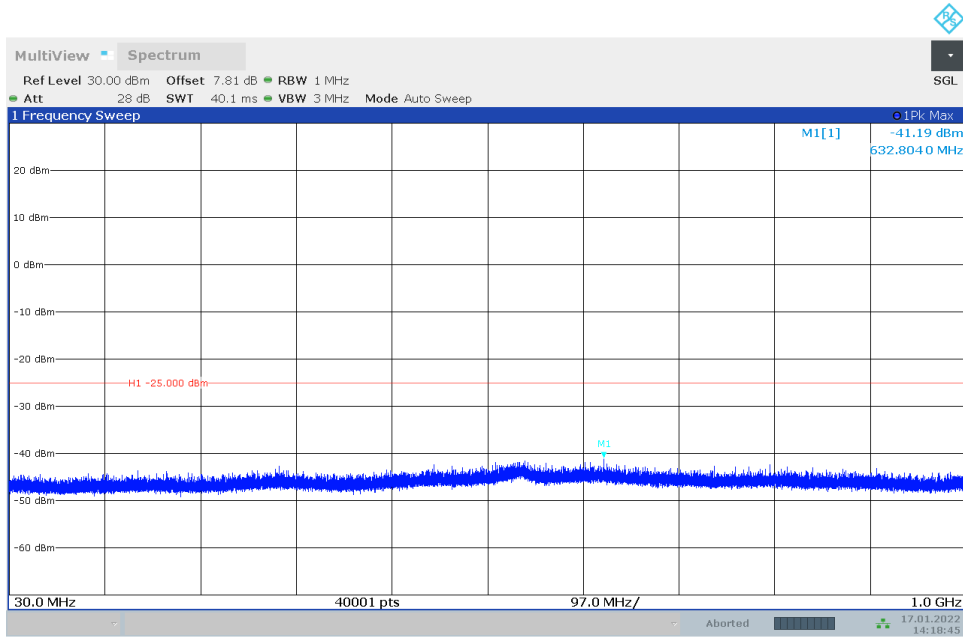
## 6.2.32 BAND 7\_TM2\_20MHZ\_MCH\_RB1#99



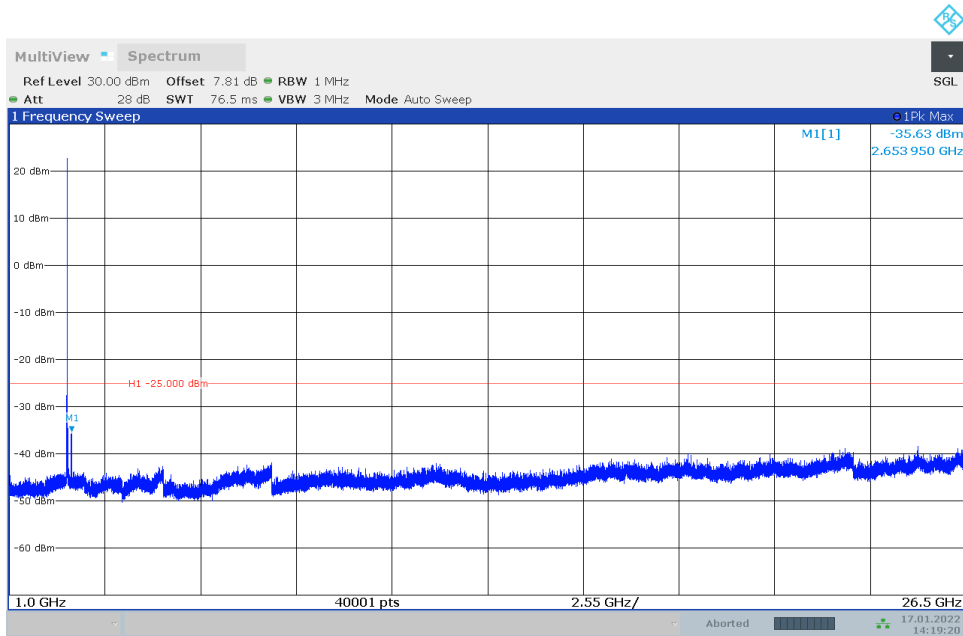
14:17:47 17.01.2022



14:18:16 17.01.2022

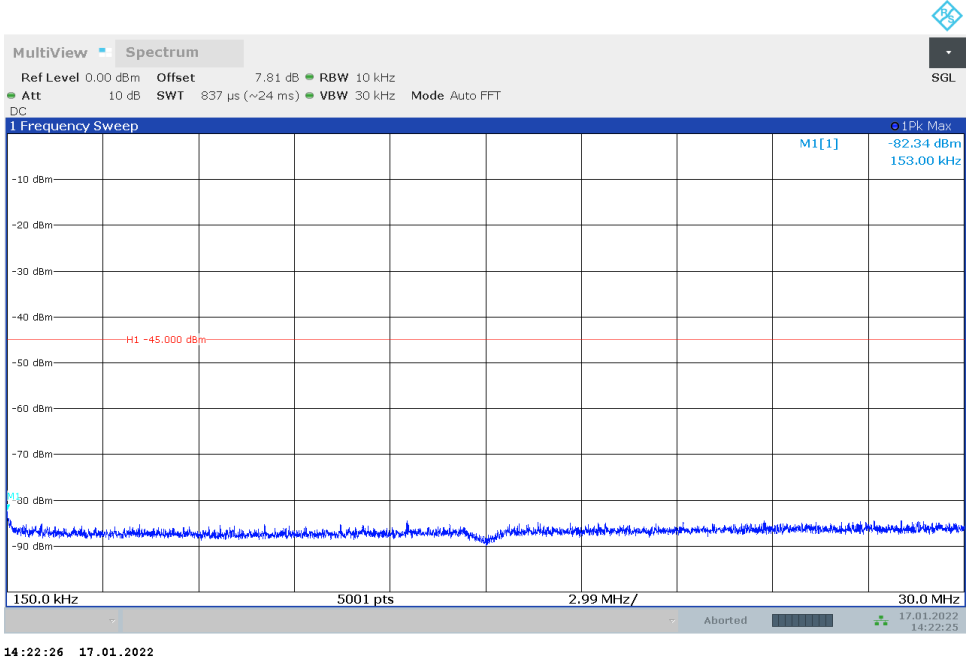
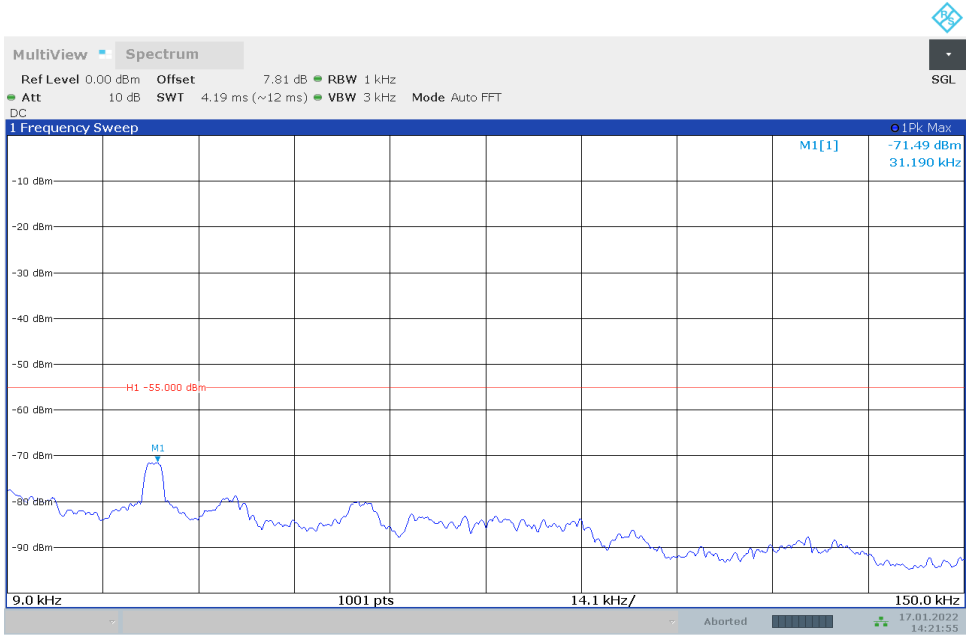


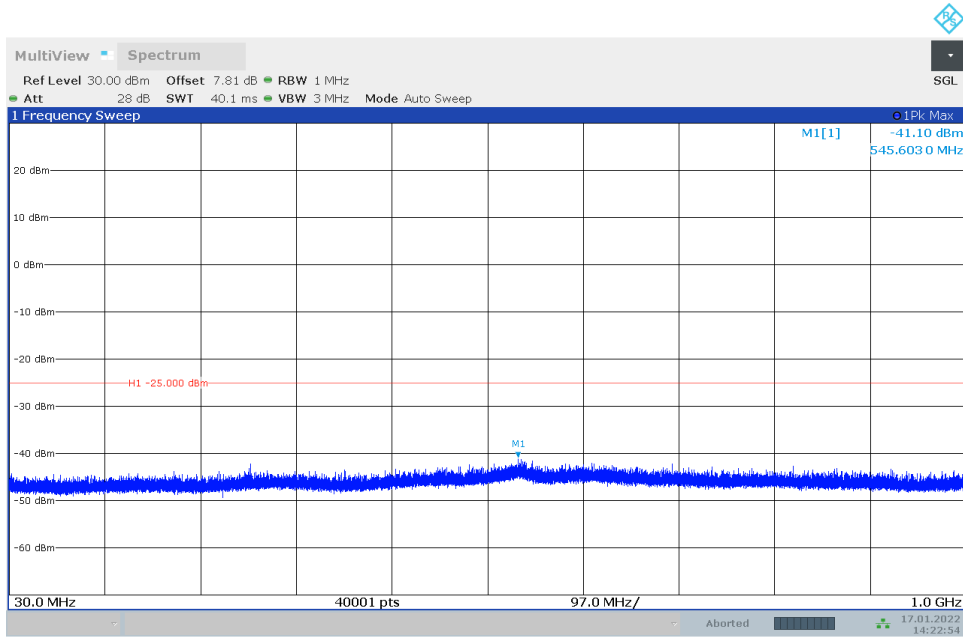
14:18:46 17.01.2022



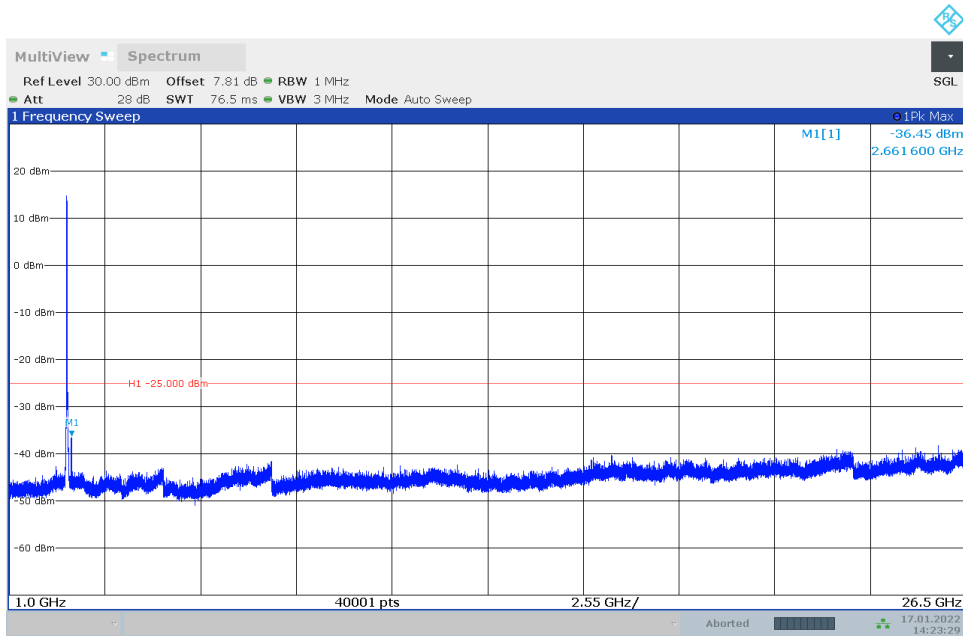
14:19:21 17.01.2022

## 6.2.33 BAND 7\_TM2\_20MHZ\_MCH\_RB100#0





14:22:55 17.01.2022

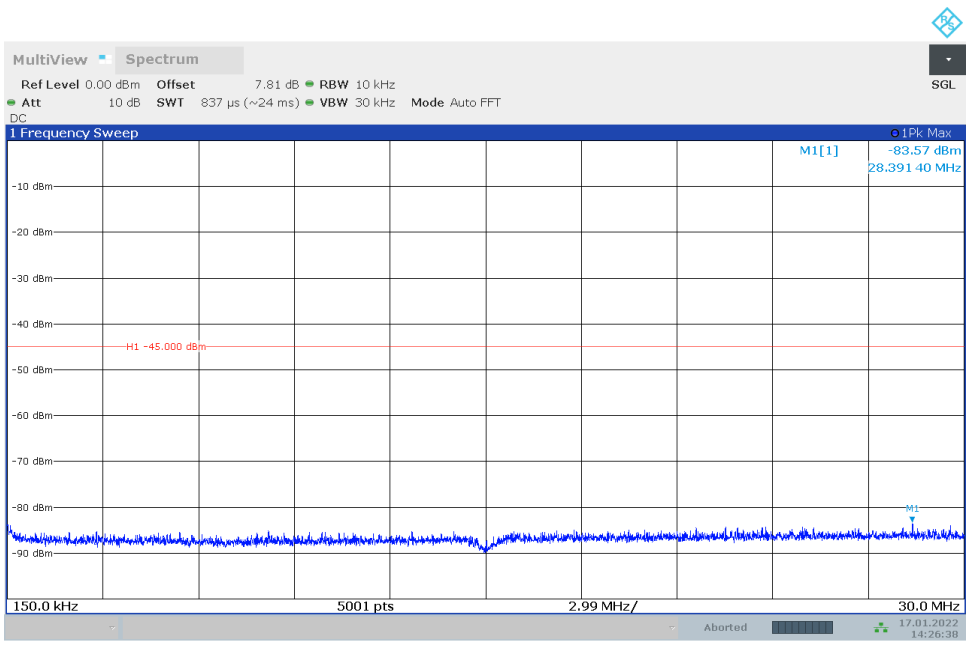


14:23:30 17.01.2022

## 6.2.34 BAND 7\_TM2\_20MHZ\_HCH\_RB1#0

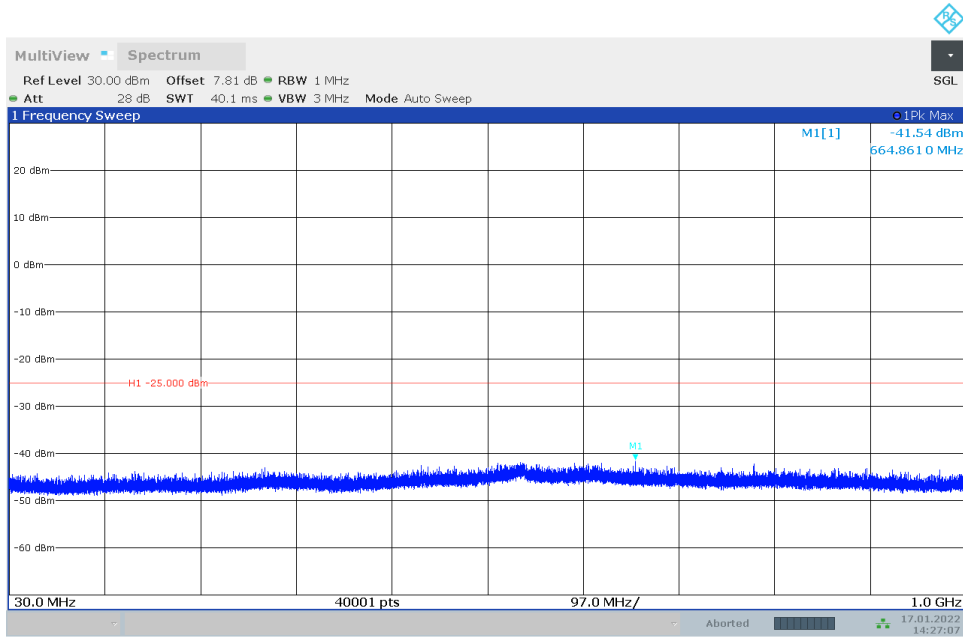


14:26:08 17.01.2022

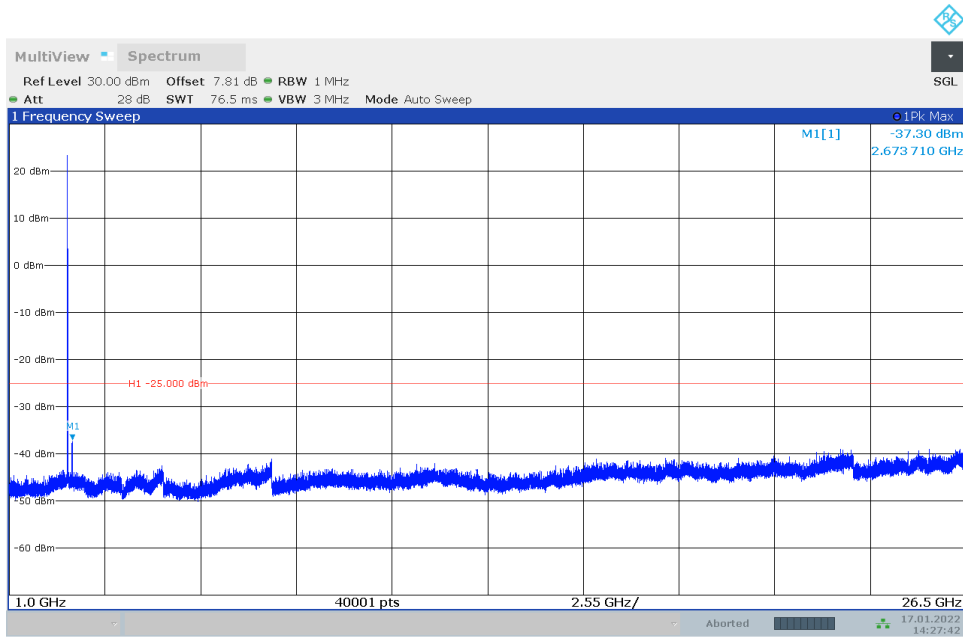


14:26:38 17.01.2022





14:27:07 17.01.2022

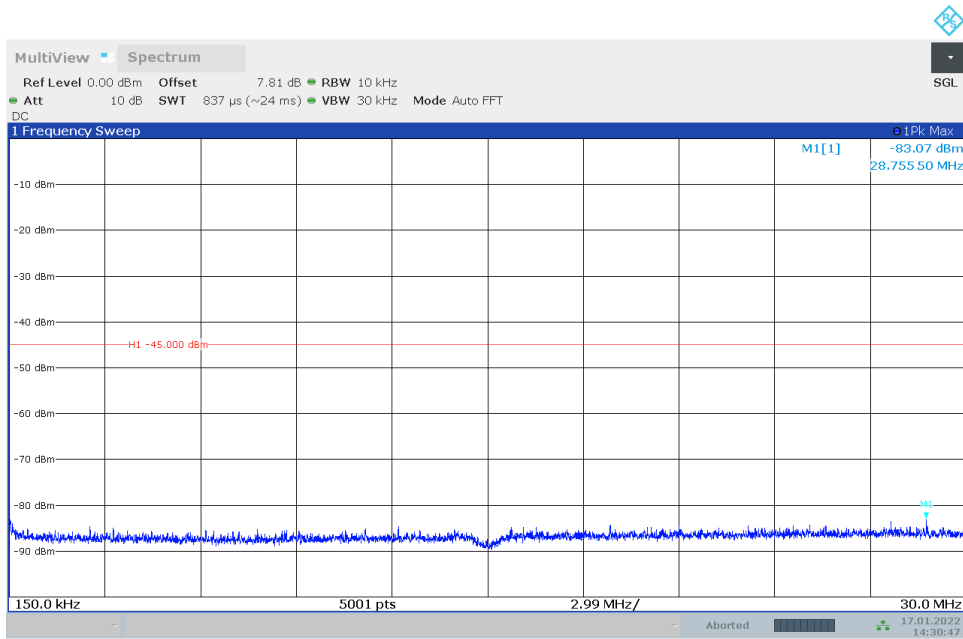


14:27:42 17.01.2022

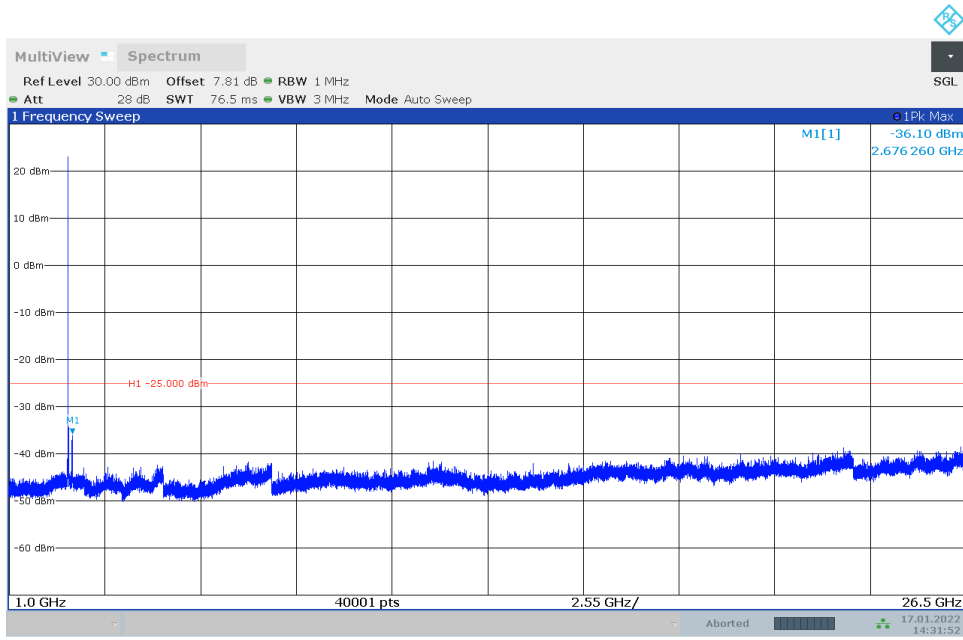
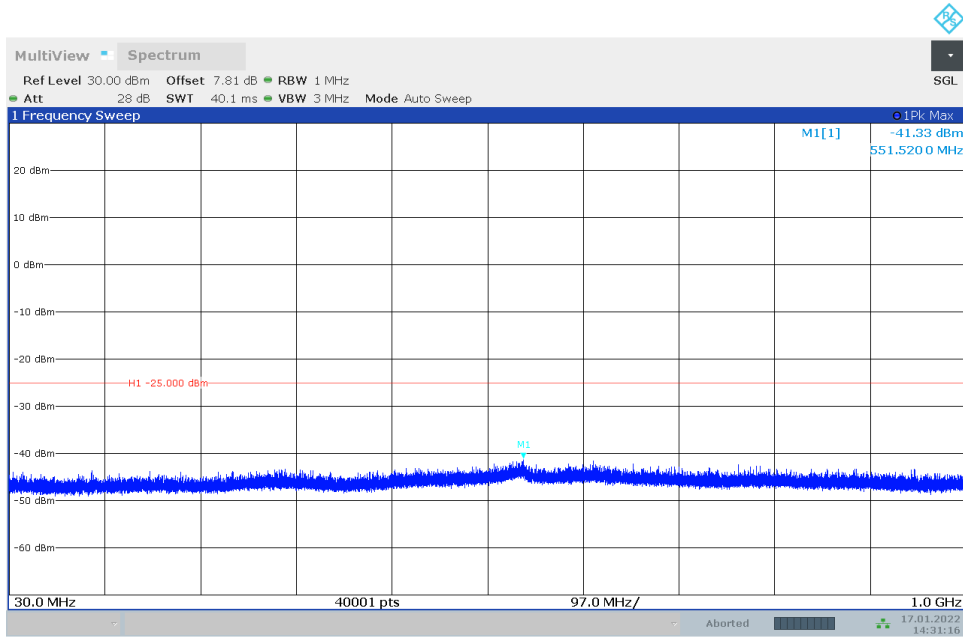
## 6.2.35 BAND 7\_TM2\_20MHZ\_HCH\_RB1#99



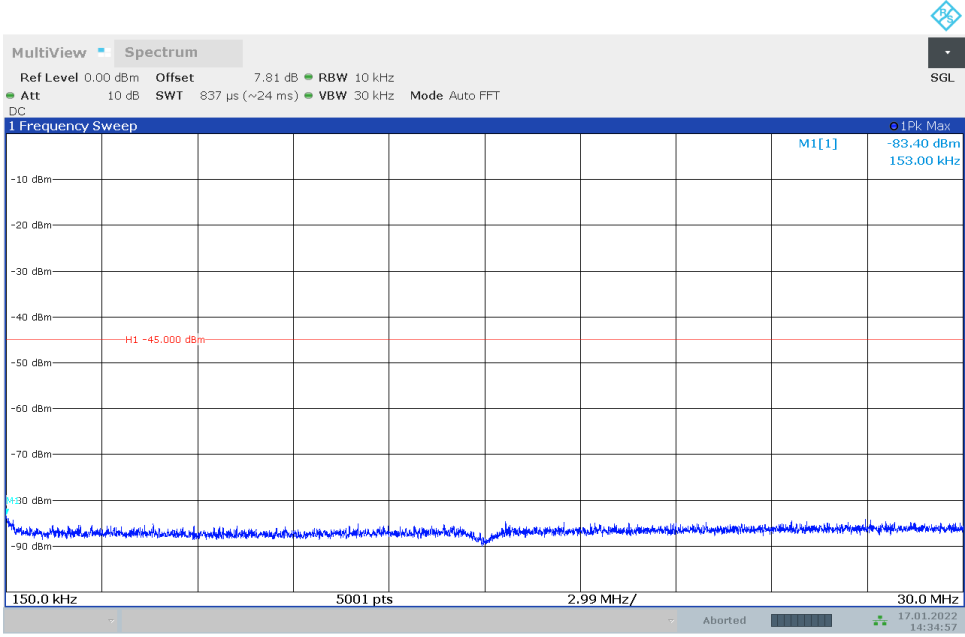
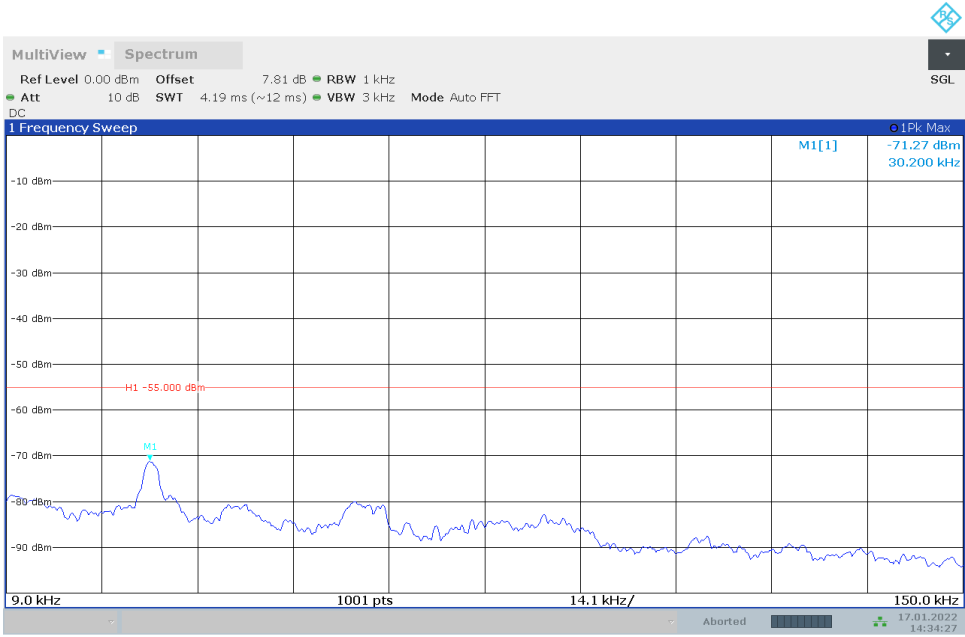
14:30:18 17.01.2022

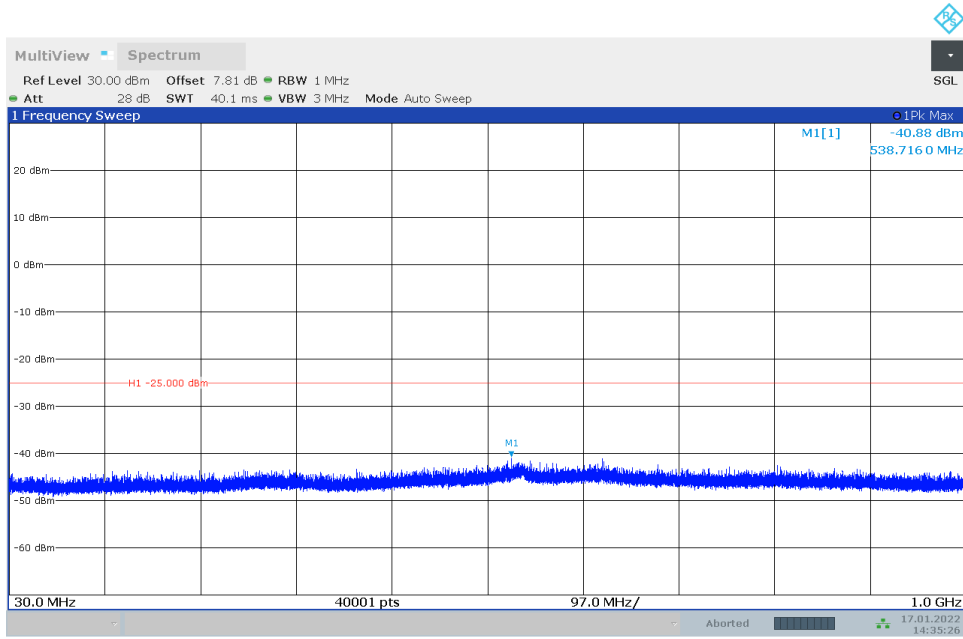


14:30:47 17.01.2022

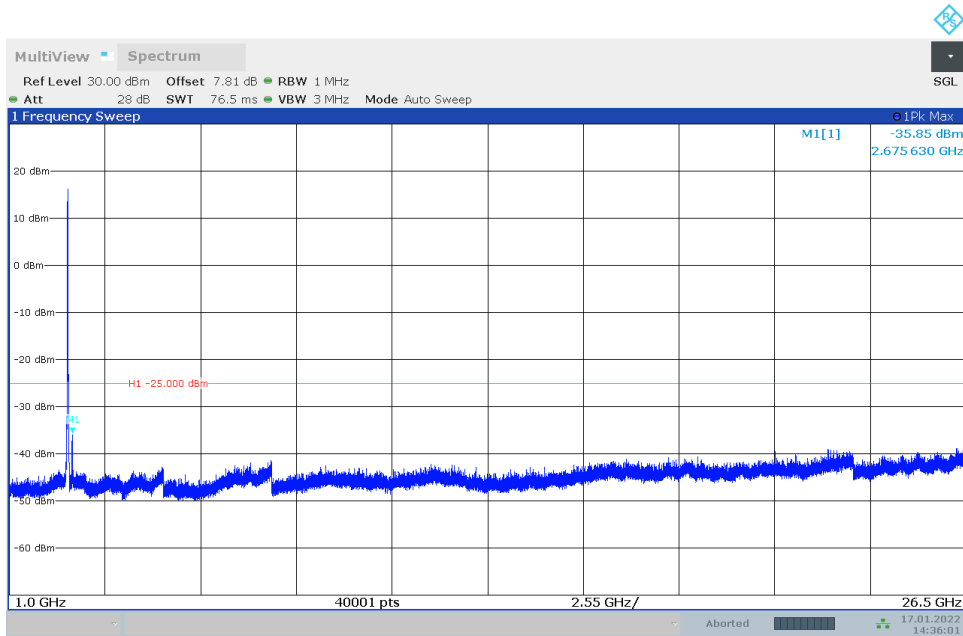


## 6.2.36 BAND 7\_TM2\_20MHZ\_HCH\_RB100#0





14:35:27 17.01.2022



14:36:02 17.01.2022

## 7. APPENDIX G - FREQUENCY STABILITY

### 7.1 TEST RESULTS

#### 7.1.1 FREQUENCY ERROR VS. VOLTAGE

Frequency Error vs. Voltage									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM1	5	LCH	QPSK	TN	VH	-1.345	-0.001	PASS
				QPSK	TN	VN	-0.993	0	PASS
				QPSK	TN	VL	4.145	0.002	PASS
			HCH	QPSK	TN	VH	2.829	0.001	PASS
				QPSK	TN	VN	10.659	0.004	PASS
				QPSK	TN	VL	12.16	0.005	PASS
			MCH	QPSK	TN	VH	-3.39	-0.001	PASS
				QPSK	TN	VN	6.574	0.003	PASS
				QPSK	TN	VL	4.697	0.002	PASS
		10	LCH	QPSK	TN	VH	3.575	0.001	PASS
				QPSK	TN	VN	6.488	0.003	PASS
				QPSK	TN	VL	-7.51	-0.003	PASS
			HCH	QPSK	TN	VH	7.052	0.003	PASS
				QPSK	TN	VN	-1.043	0	PASS
				QPSK	TN	VL	-1.549	-0.001	PASS
			MCH	QPSK	TN	VH	0.498	0	PASS
				QPSK	TN	VN	-0.533	0	PASS
				QPSK	TN	VL	-0.17	0	PASS

Frequency Error vs. Voltage									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM1	15	LCH	QPSK	TN	VH	4.054	0.002	PASS
				QPSK	TN	VN	1.534	0.001	PASS
				QPSK	TN	VL	-2.449	-0.001	PASS
			HCH	QPSK	TN	VH	1.753	0.001	PASS
				QPSK	TN	VN	1.215	0	PASS
				QPSK	TN	VL	-0.076	0	PASS
			MCH	QPSK	TN	VH	-2.187	-0.001	PASS
				QPSK	TN	VN	0.449	0	PASS
				QPSK	TN	VL	1.294	0.001	PASS
		20	LCH	QPSK	TN	VH	2.983	0.001	PASS
				QPSK	TN	VN	-8.099	-0.003	PASS
				QPSK	TN	VL	-0.941	0	PASS
			HCH	QPSK	TN	VH	1.036	0	PASS
				QPSK	TN	VN	0.216	0	PASS
				QPSK	TN	VL	-2.414	-0.001	PASS
			MCH	QPSK	TN	VH	-1.037	0	PASS
				QPSK	TN	VN	-3.018	-0.001	PASS
				QPSK	TN	VL	-2.149	-0.001	PASS

Frequency Error vs. Voltage									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM2	5	LCH	16QAM	TN	VH	-3.525	-0.001	PASS
				16QAM	TN	VN	-2.523	-0.001	PASS
				16QAM	TN	VL	-0.211	0	PASS
			HCH	16QAM	TN	VH	-2.478	-0.001	PASS
				16QAM	TN	VN	-5.654	-0.002	PASS
				16QAM	TN	VL	3.875	0.002	PASS
			MCH	16QAM	TN	VH	3.536	0.001	PASS
				16QAM	TN	VN	0.661	0	PASS
				16QAM	TN	VL	-7.135	-0.003	PASS
		10	LCH	16QAM	TN	VH	-4.055	-0.002	PASS
				16QAM	TN	VN	1.84	0.001	PASS
				16QAM	TN	VL	0.128	0	PASS
			HCH	16QAM	TN	VH	-1.533	-0.001	PASS
				16QAM	TN	VN	2.523	0.001	PASS
				16QAM	TN	VL	0.114	0	PASS
			MCH	16QAM	TN	VH	-1.356	-0.001	PASS
				16QAM	TN	VN	2.31	0.001	PASS
				16QAM	TN	VL	5.528	0.002	PASS
		15	LCH	16QAM	TN	VH	1.788	0.001	PASS
				16QAM	TN	VN	4.618	0.002	PASS
				16QAM	TN	VL	-1.303	-0.001	PASS
			HCH	16QAM	TN	VH	-3.755	-0.001	PASS
				16QAM	TN	VN	-1.364	-0.001	PASS
				16QAM	TN	VL	1.052	0	PASS
			MCH	16QAM	TN	VH	0.043	0	PASS
				16QAM	TN	VN	3.744	0.001	PASS
				16QAM	TN	VL	2.203	0.001	PASS
		20	LCH	16QAM	TN	VH	-3.825	-0.002	PASS
				16QAM	TN	VN	1.489	0.001	PASS
				16QAM	TN	VL	-1.748	-0.001	PASS
			HCH	16QAM	TN	VH	2.522	0.001	PASS
				16QAM	TN	VN	-0.049	0	PASS
				16QAM	TN	VL	1.69	0.001	PASS
			MCH	16QAM	TN	VH	0.069	0	PASS
				16QAM	TN	VN	0.226	0	PASS
				16QAM	TN	VL	5.051	0.002	PASS



## 7.1.2 FREQUENCY ERROR VS. TEMPERATURE

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM1	5	LCH	QPSK	VN	-30	0.671	0	PASS
				QPSK	VN	-20	9.549	0.004	PASS
				QPSK	VN	-10	2.243	0.001	PASS
				QPSK	VN	0	-1.185	0	PASS
				QPSK	VN	10	2.564	0.001	PASS
				QPSK	VN	20	1.055	0	PASS
				QPSK	VN	30	3.053	0.001	PASS
				QPSK	VN	40	0.791	0	PASS
			HCH	QPSK	VN	50	2.185	0.001	PASS
				QPSK	VN	-30	3.195	0.001	PASS
				QPSK	VN	-20	2.378	0.001	PASS
				QPSK	VN	-10	4.733	0.002	PASS
				QPSK	VN	0	3.852	0.002	PASS
				QPSK	VN	10	2.622	0.001	PASS
				QPSK	VN	20	-1.598	-0.001	PASS
				QPSK	VN	30	11.201	0.004	PASS
			MCH	QPSK	VN	40	2.563	0.001	PASS
				QPSK	VN	50	2.476	0.001	PASS
				QPSK	VN	-30	2.045	0.001	PASS
				QPSK	VN	-20	8.301	0.003	PASS
				QPSK	VN	-10	-4.893	-0.002	PASS
				QPSK	VN	0	-4.905	-0.002	PASS
				QPSK	VN	10	-2.786	-0.001	PASS
				QPSK	VN	20	-1.652	-0.001	PASS
QPSK	VN	30	-1.581	-0.001	PASS				
QPSK	VN	40	-1.357	-0.001	PASS				
QPSK	VN	50	0.719	0	PASS				

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM1	10	LCH	QPSK	VN	-30	-0.516	0	PASS
				QPSK	VN	-20	-6.376	-0.003	PASS
				QPSK	VN	-10	4.761	0.002	PASS
				QPSK	VN	0	1.419	0.001	PASS
				QPSK	VN	10	4.899	0.002	PASS
				QPSK	VN	20	-2.794	-0.001	PASS
				QPSK	VN	30	3.076	0.001	PASS
				QPSK	VN	40	4.411	0.002	PASS
				QPSK	VN	50	0.992	0	PASS
			HCH	QPSK	VN	-30	8.136	0.003	PASS
				QPSK	VN	-20	-6.415	-0.003	PASS
				QPSK	VN	-10	5.854	0.002	PASS
				QPSK	VN	0	-1.193	0	PASS
				QPSK	VN	10	8.862	0.003	PASS
				QPSK	VN	20	3.202	0.001	PASS
				QPSK	VN	30	-8.033	-0.003	PASS
				QPSK	VN	40	-4.448	-0.002	PASS
				QPSK	VN	50	0.728	0	PASS
			MCH	QPSK	VN	-30	0.483	0	PASS
				QPSK	VN	-20	-4.877	-0.002	PASS
				QPSK	VN	-10	3.045	0.001	PASS
				QPSK	VN	0	3.728	0.001	PASS
				QPSK	VN	10	1.304	0.001	PASS
				QPSK	VN	20	3.067	0.001	PASS
				QPSK	VN	30	-5.503	-0.002	PASS
				QPSK	VN	40	-10.216	-0.004	PASS
				QPSK	VN	50	4.016	0.002	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM1	15	LCH	QPSK	VN	-30	-3.89	-0.002	PASS
				QPSK	VN	-20	-1.028	0	PASS
				QPSK	VN	-10	-4.093	-0.002	PASS
				QPSK	VN	0	2.315	0.001	PASS
				QPSK	VN	10	3.804	0.002	PASS
				QPSK	VN	20	1.188	0	PASS
				QPSK	VN	30	0.567	0	PASS
				QPSK	VN	40	0.832	0	PASS
				QPSK	VN	50	-2.48	-0.001	PASS
			HCH	QPSK	VN	-30	-3.178	-0.001	PASS
				QPSK	VN	-20	-0.432	0	PASS
				QPSK	VN	-10	3.521	0.001	PASS
				QPSK	VN	0	-0.012	0	PASS
				QPSK	VN	10	1.271	0.001	PASS
				QPSK	VN	20	2.6	0.001	PASS
				QPSK	VN	30	2.021	0.001	PASS
				QPSK	VN	40	2.916	0.001	PASS
				QPSK	VN	50	1.124	0	PASS
			MCH	QPSK	VN	-30	1.496	0.001	PASS
				QPSK	VN	-20	-0.739	0	PASS
				QPSK	VN	-10	1.331	0.001	PASS
				QPSK	VN	0	-1.328	-0.001	PASS
				QPSK	VN	10	-0.883	0	PASS
				QPSK	VN	20	0.644	0	PASS
				QPSK	VN	30	-3.923	-0.002	PASS
				QPSK	VN	40	3.976	0.002	PASS
				QPSK	VN	50	0.013	0	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM1	20	LCH	QPSK	VN	-30	0.378	0	PASS
				QPSK	VN	-20	2.439	0.001	PASS
				QPSK	VN	-10	0.088	0	PASS
				QPSK	VN	0	-0.413	0	PASS
				QPSK	VN	10	-0.67	0	PASS
				QPSK	VN	20	4.608	0.002	PASS
				QPSK	VN	30	-2.88	-0.001	PASS
				QPSK	VN	40	-1.097	0	PASS
				QPSK	VN	50	-3.837	-0.002	PASS
			HCH	QPSK	VN	-30	1.716	0.001	PASS
				QPSK	VN	-20	-0.72	0	PASS
				QPSK	VN	-10	-0.365	0	PASS
				QPSK	VN	0	0.124	0	PASS
				QPSK	VN	10	2.67	0.001	PASS
				QPSK	VN	20	0.384	0	PASS
				QPSK	VN	30	1.654	0.001	PASS
				QPSK	VN	40	1.794	0.001	PASS
				QPSK	VN	50	-2.58	-0.001	PASS
			MCH	QPSK	VN	-30	1.835	0.001	PASS
				QPSK	VN	-20	3.971	0.002	PASS
				QPSK	VN	-10	3.901	0.002	PASS
				QPSK	VN	0	-0.573	0	PASS
				QPSK	VN	10	-0.774	0	PASS
				QPSK	VN	20	-3.417	-0.001	PASS
				QPSK	VN	30	0.493	0	PASS
				QPSK	VN	40	0.46	0	PASS
				QPSK	VN	50	-1.905	-0.001	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM2	5	LCH	16QAM	VN	-30	4.818	0.002	PASS
				16QAM	VN	-20	-7.964	-0.003	PASS
				16QAM	VN	-10	8.87	0.004	PASS
				16QAM	VN	0	12.803	0.005	PASS
				16QAM	VN	10	3.098	0.001	PASS
				16QAM	VN	20	1.725	0.001	PASS
				16QAM	VN	30	3.79	0.002	PASS
				16QAM	VN	40	-3.219	-0.001	PASS
				16QAM	VN	50	-8.531	-0.003	PASS
			HCH	16QAM	VN	-30	3.619	0.001	PASS
				16QAM	VN	-20	-0.069	0	PASS
				16QAM	VN	-10	-4.33	-0.002	PASS
				16QAM	VN	0	-3.942	-0.002	PASS
				16QAM	VN	10	1.232	0	PASS
				16QAM	VN	20	2.83	0.001	PASS
				16QAM	VN	30	-4.438	-0.002	PASS
				16QAM	VN	40	2.787	0.001	PASS
				16QAM	VN	50	7.266	0.003	PASS
			MCH	16QAM	VN	-30	-5.229	-0.002	PASS
				16QAM	VN	-20	-8.694	-0.003	PASS
				16QAM	VN	-10	-7.016	-0.003	PASS
				16QAM	VN	0	9.868	0.004	PASS
				16QAM	VN	10	-4.668	-0.002	PASS
				16QAM	VN	20	-9.153	-0.004	PASS
				16QAM	VN	30	-4.155	-0.002	PASS
				16QAM	VN	40	-11.652	-0.005	PASS
				16QAM	VN	50	7.344	0.003	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM2	10	LCH	16QAM	VN	-30	-2.227	-0.001	PASS
				16QAM	VN	-20	1.735	0.001	PASS
				16QAM	VN	-10	5.893	0.002	PASS
				16QAM	VN	0	2.522	0.001	PASS
				16QAM	VN	10	-1.087	0	PASS
				16QAM	VN	20	5.221	0.002	PASS
				16QAM	VN	30	4.625	0.002	PASS
				16QAM	VN	40	4.057	0.002	PASS
				16QAM	VN	50	-2.783	-0.001	PASS
			HCH	16QAM	VN	-30	0.806	0	PASS
				16QAM	VN	-20	-3.542	-0.001	PASS
				16QAM	VN	-10	2.647	0.001	PASS
				16QAM	VN	0	0.439	0	PASS
				16QAM	VN	10	-4.175	-0.002	PASS
				16QAM	VN	20	1.29	0.001	PASS
				16QAM	VN	30	-0.624	0	PASS
				16QAM	VN	40	-1.081	0	PASS
				16QAM	VN	50	-1.146	0	PASS
			MCH	16QAM	VN	-30	0.92	0	PASS
				16QAM	VN	-20	-6.548	-0.003	PASS
				16QAM	VN	-10	-3.568	-0.001	PASS
				16QAM	VN	0	6.105	0.002	PASS
				16QAM	VN	10	2.333	0.001	PASS
				16QAM	VN	20	-5.262	-0.002	PASS
				16QAM	VN	30	0.719	0	PASS
				16QAM	VN	40	-2.862	-0.001	PASS
				16QAM	VN	50	-3.228	-0.001	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM2	15	LCH	16QAM	VN	-30	4.147	0.002	PASS
				16QAM	VN	-20	0.961	0	PASS
				16QAM	VN	-10	-3.361	-0.001	PASS
				16QAM	VN	0	-0.746	0	PASS
				16QAM	VN	10	-2.072	-0.001	PASS
				16QAM	VN	20	2.635	0.001	PASS
				16QAM	VN	30	4.062	0.002	PASS
				16QAM	VN	40	-1.236	0	PASS
				16QAM	VN	50	-2.284	-0.001	PASS
			HCH	16QAM	VN	-30	3.007	0.001	PASS
				16QAM	VN	-20	-1.295	-0.001	PASS
				16QAM	VN	-10	-6.657	-0.003	PASS
				16QAM	VN	0	-0.348	0	PASS
				16QAM	VN	10	2.013	0.001	PASS
				16QAM	VN	20	0.052	0	PASS
				16QAM	VN	30	-0.07	0	PASS
				16QAM	VN	40	1.365	0.001	PASS
				16QAM	VN	50	-6.372	-0.003	PASS
			MCH	16QAM	VN	-30	-2.898	-0.001	PASS
				16QAM	VN	-20	-0.146	0	PASS
				16QAM	VN	-10	-1.319	-0.001	PASS
				16QAM	VN	0	-3.802	-0.001	PASS
				16QAM	VN	10	0.09	0	PASS
				16QAM	VN	20	0.712	0	PASS
				16QAM	VN	30	2.835	0.001	PASS
				16QAM	VN	40	-0.201	0	PASS
				16QAM	VN	50	-3.538	-0.001	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band 7	TM2	20	LCH	16QAM	VN	-30	0.853	0	PASS
				16QAM	VN	-20	-2.471	-0.001	PASS
				16QAM	VN	-10	0.914	0	PASS
				16QAM	VN	0	1.989	0.001	PASS
				16QAM	VN	10	-2.06	-0.001	PASS
				16QAM	VN	20	0.505	0	PASS
				16QAM	VN	30	-0.871	0	PASS
				16QAM	VN	40	3.586	0.001	PASS
				16QAM	VN	50	6.346	0.003	PASS
			HCH	16QAM	VN	-30	-0.258	0	PASS
				16QAM	VN	-20	-0.562	0	PASS
				16QAM	VN	-10	4.393	0.002	PASS
				16QAM	VN	0	-1.681	-0.001	PASS
				16QAM	VN	10	-2.733	-0.001	PASS
				16QAM	VN	20	-4.821	-0.002	PASS
				16QAM	VN	30	0.883	0	PASS
				16QAM	VN	40	2.046	0.001	PASS
				16QAM	VN	50	0.493	0	PASS
			MCH	16QAM	VN	-30	-1.669	-0.001	PASS
				16QAM	VN	-20	0.992	0	PASS
				16QAM	VN	-10	2.185	0.001	PASS
				16QAM	VN	0	3.797	0.001	PASS
				16QAM	VN	10	0.63	0	PASS
				16QAM	VN	20	1.006	0	PASS
				16QAM	VN	30	6.705	0.003	PASS
				16QAM	VN	40	-0.085	0	PASS
				16QAM	VN	50	-0.778	0	PASS

End of Test Report