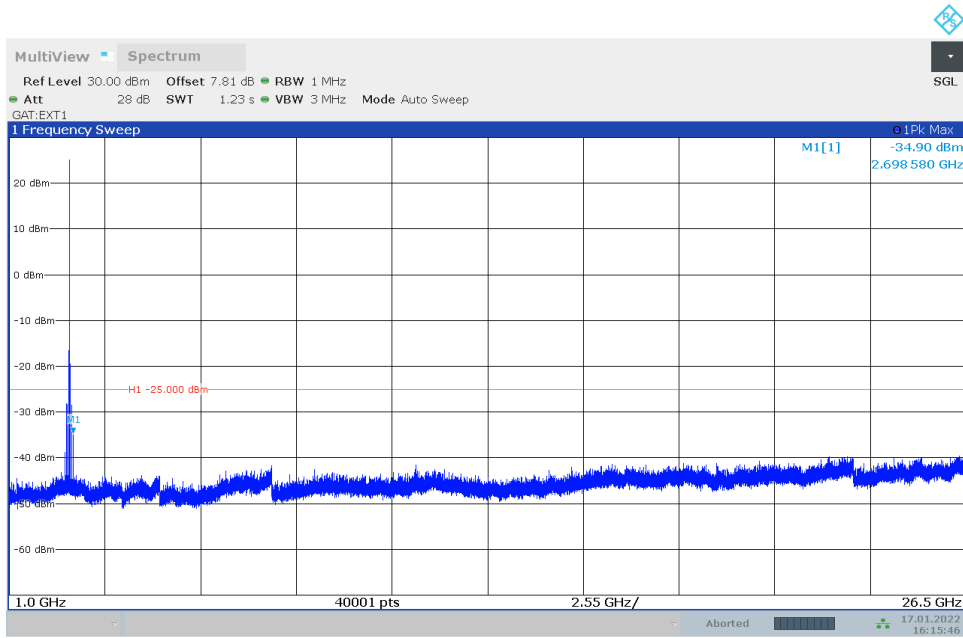


16:15:11 17.01.2022

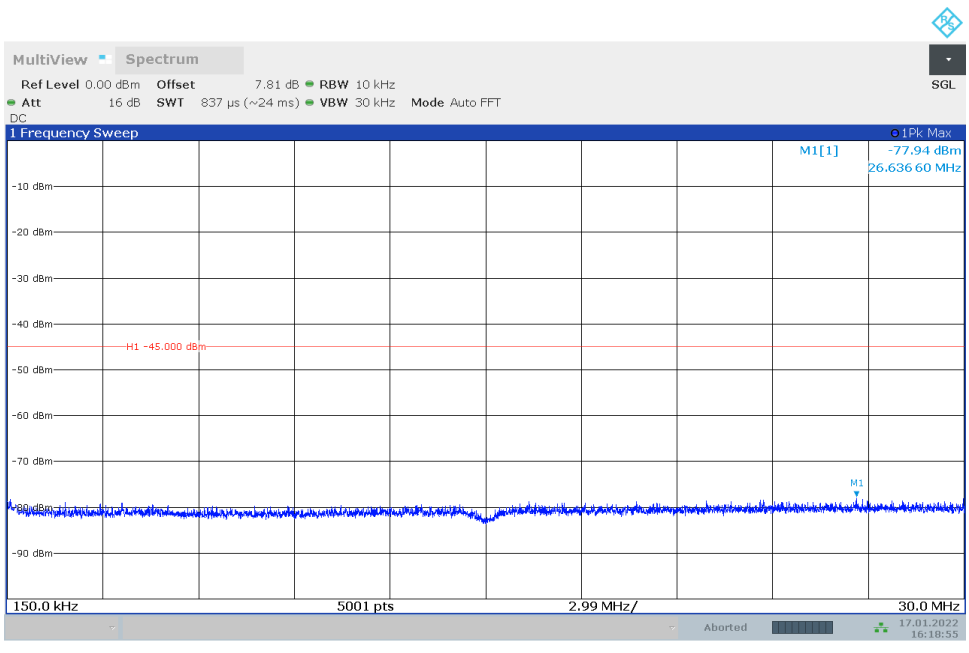


16:15:47 17.01.2022

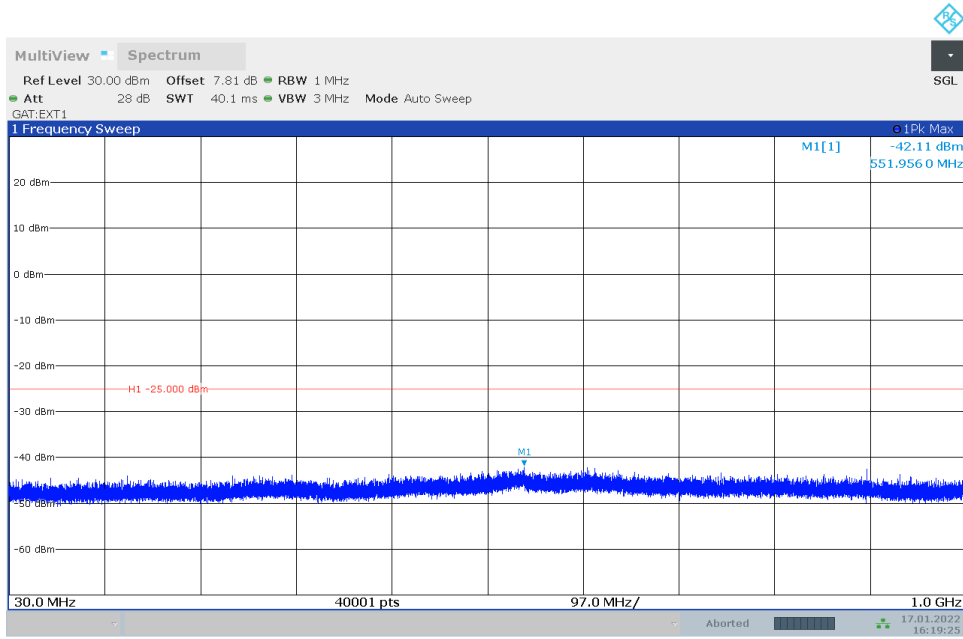
## 6.2.24 BAND 41\_TM2\_5MHZ\_MCH\_RB25#0



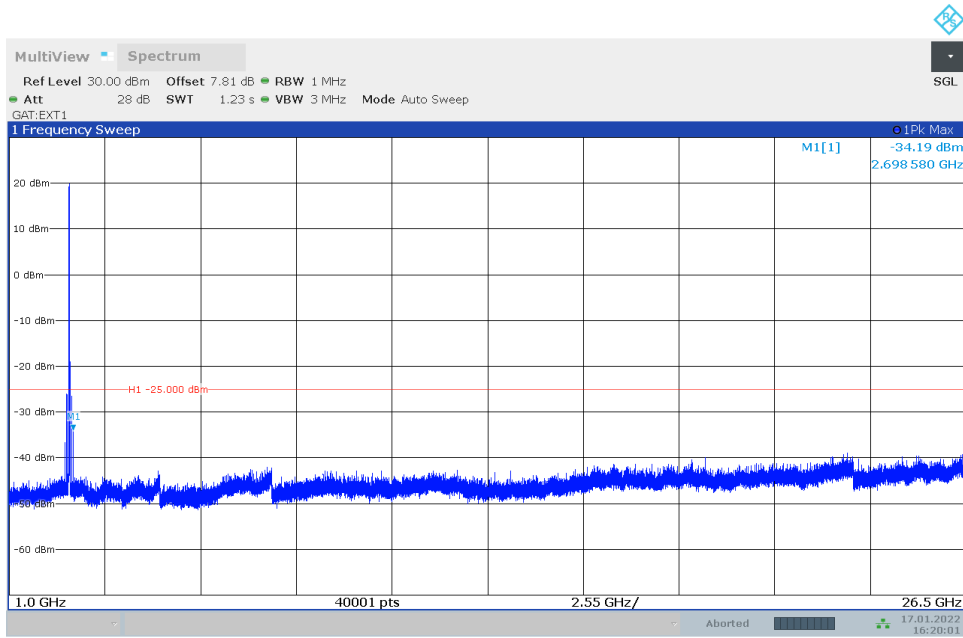
16:18:25 17.01.2022



16:18:55 17.01.2022

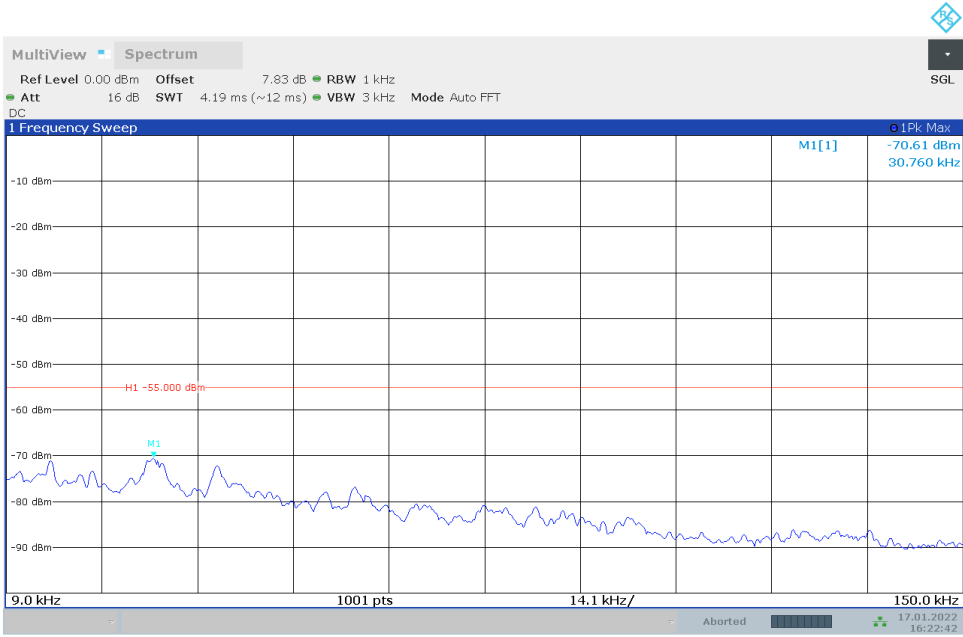


16:19:25 17.01.2022

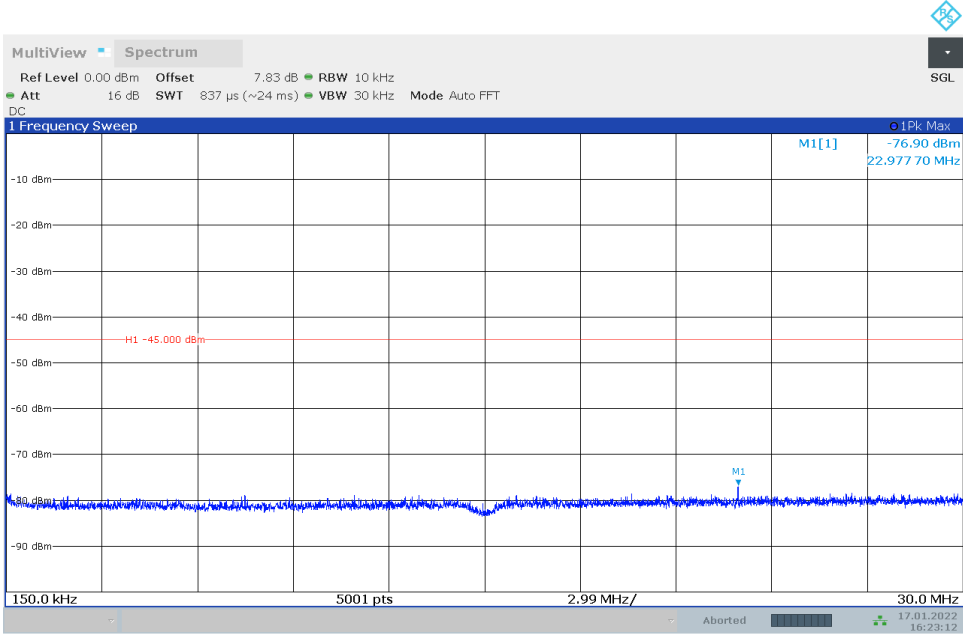


16:20:02 17.01.2022

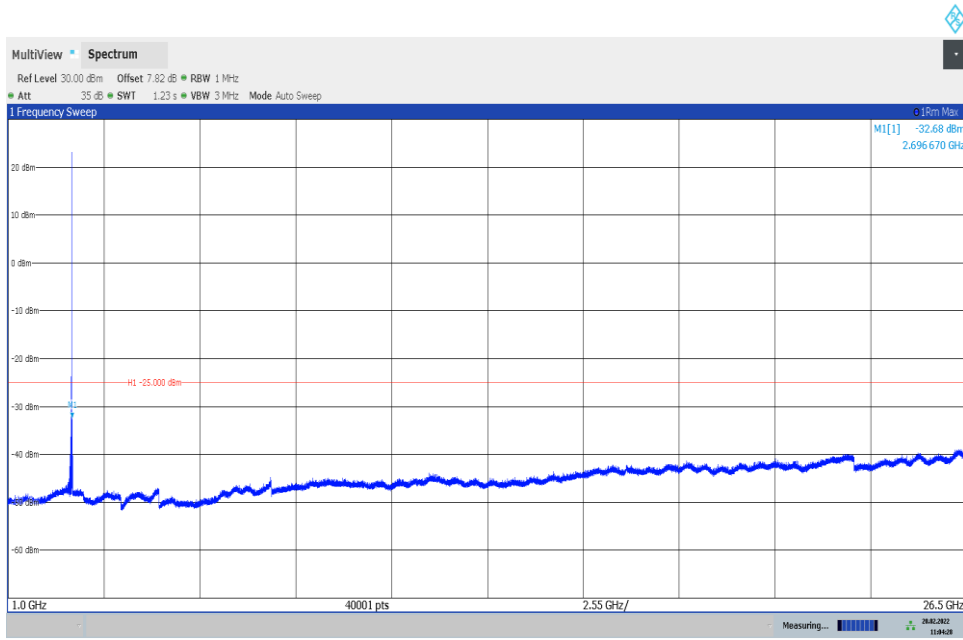
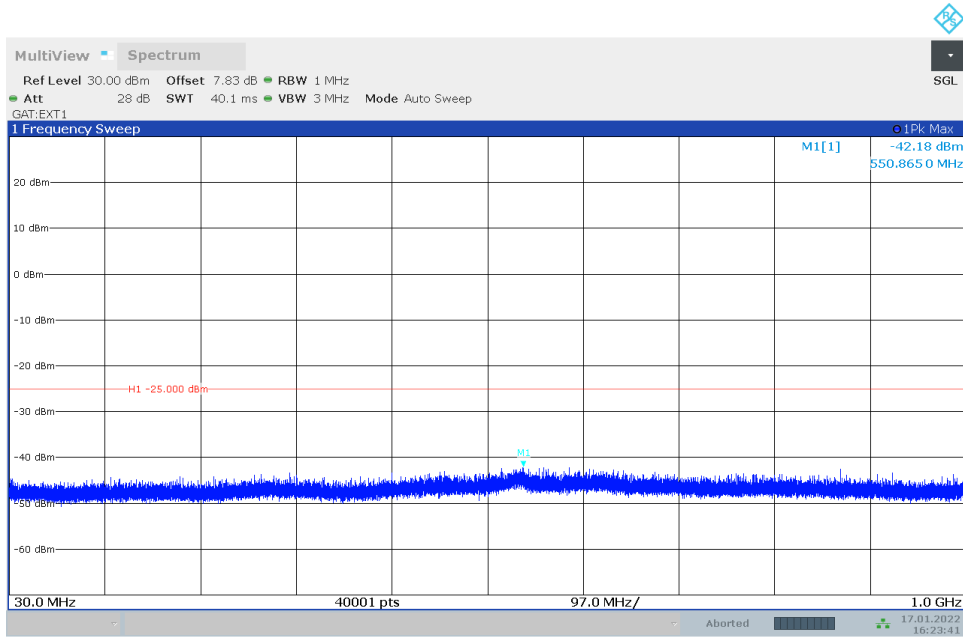
## 6.2.25 BAND 41\_TM2\_5MHZ\_HCH\_RB1#0



16:22:42 17.01.2022



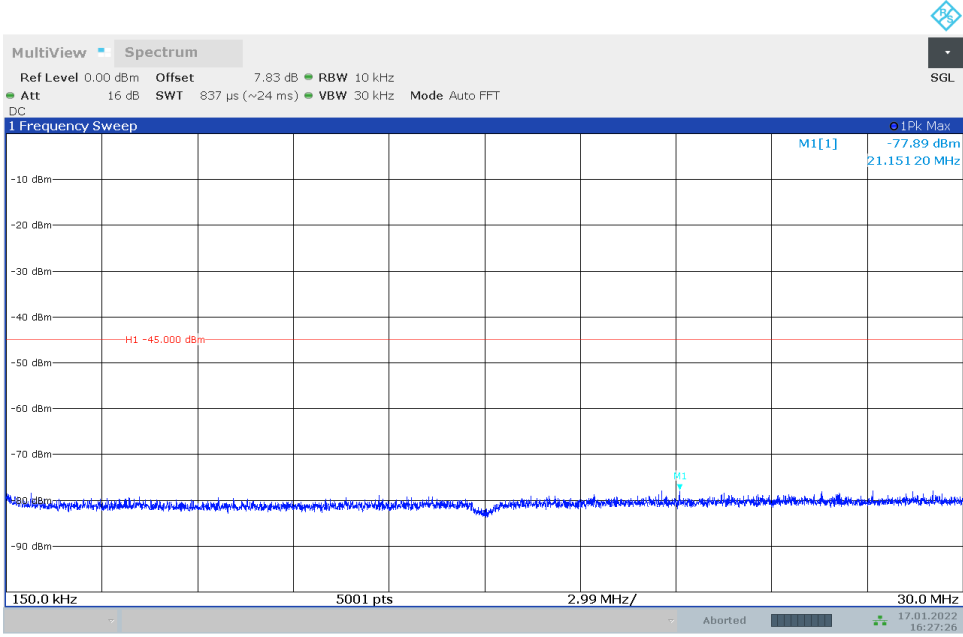
16:23:12 17.01.2022



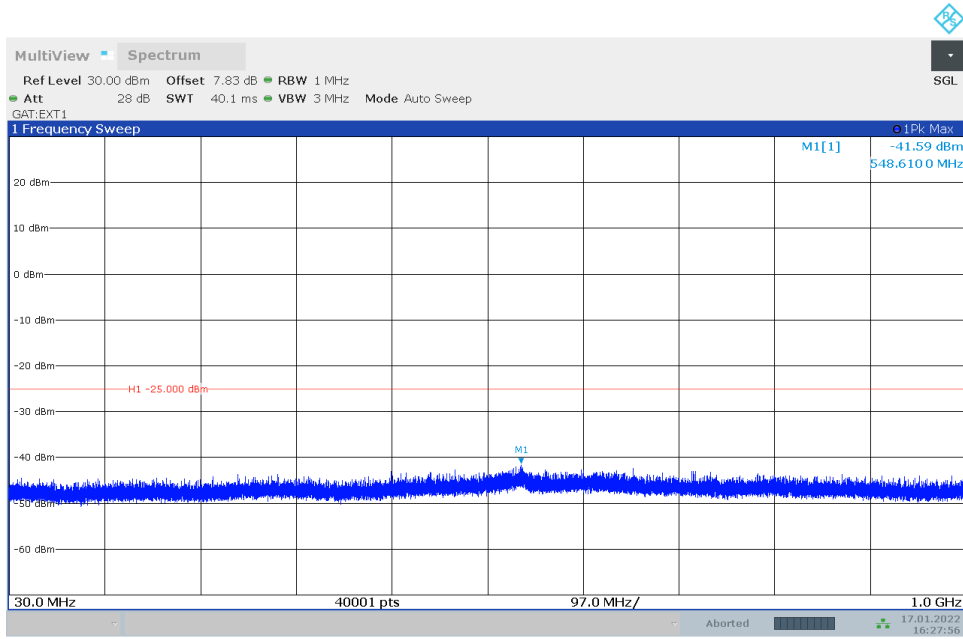
## 6.2.26 BAND 41\_TM2\_5MHZ\_HCH\_RB1#24



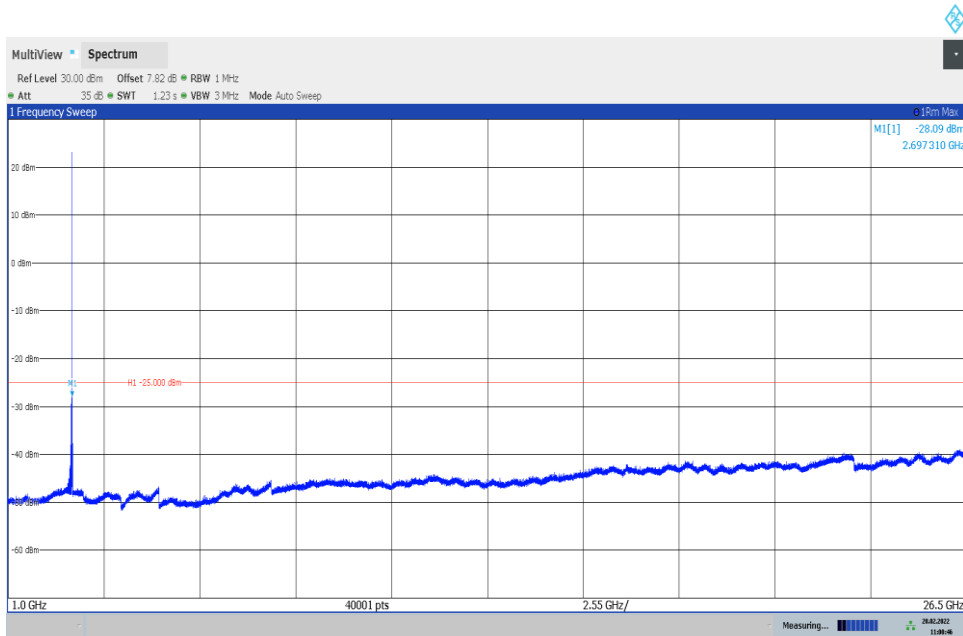
16:26:57 17.01.2022



16:27:26 17.01.2022

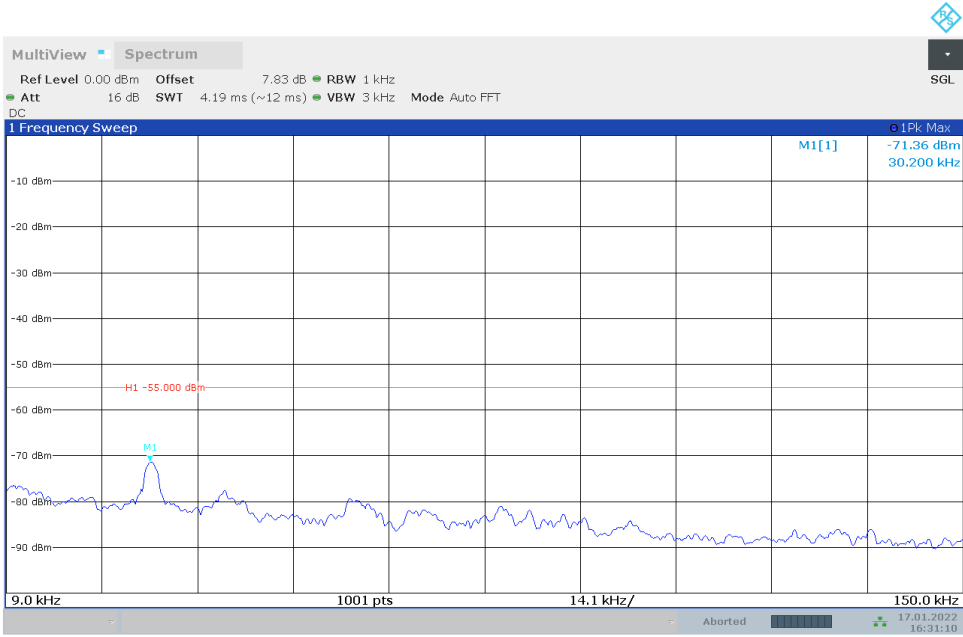


16:27:56 17.01.2022

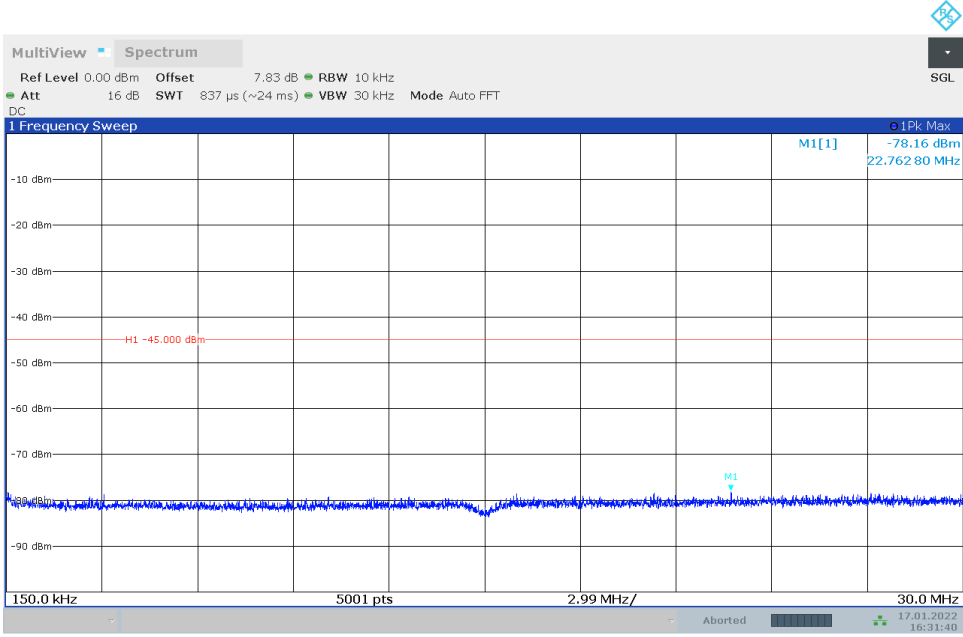


11:00:16 20.02.2022

## 6.2.27 BAND 41\_TM2\_5MHZ\_HCH\_RB25#0

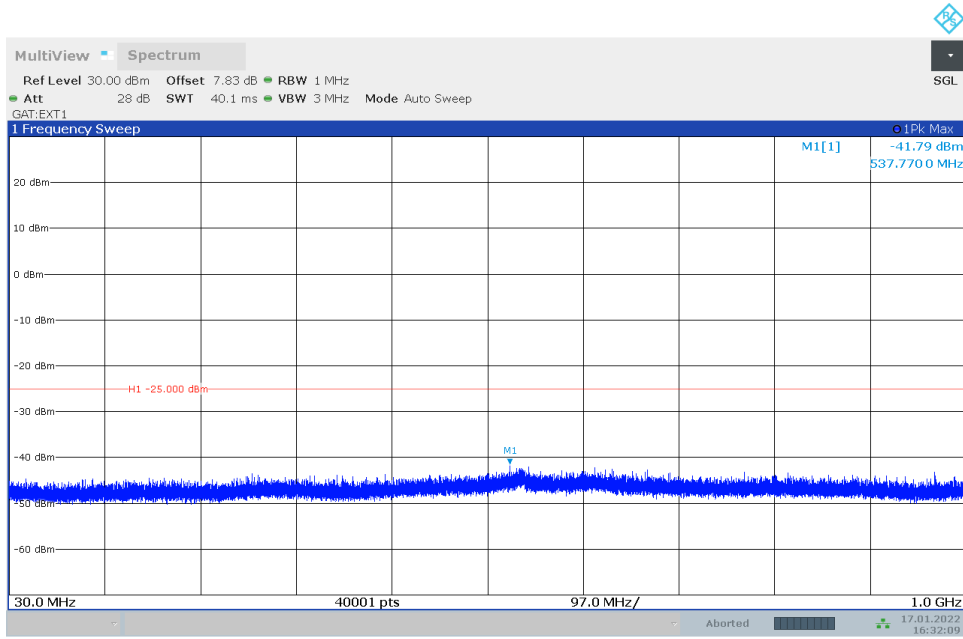


16:31:10 17.01.2022

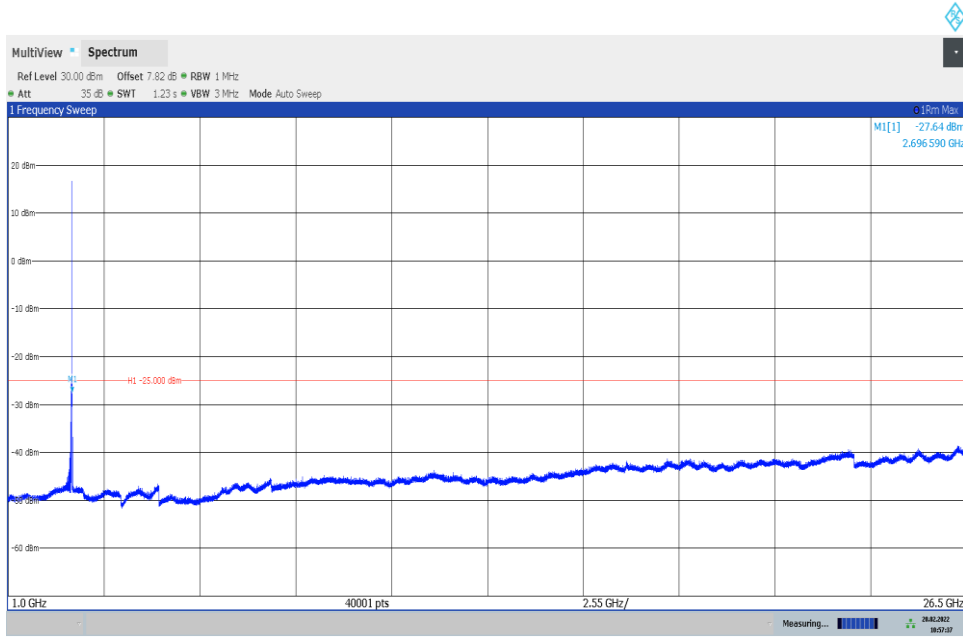


16:31:40 17.01.2022





16:32:10 17.01.2022

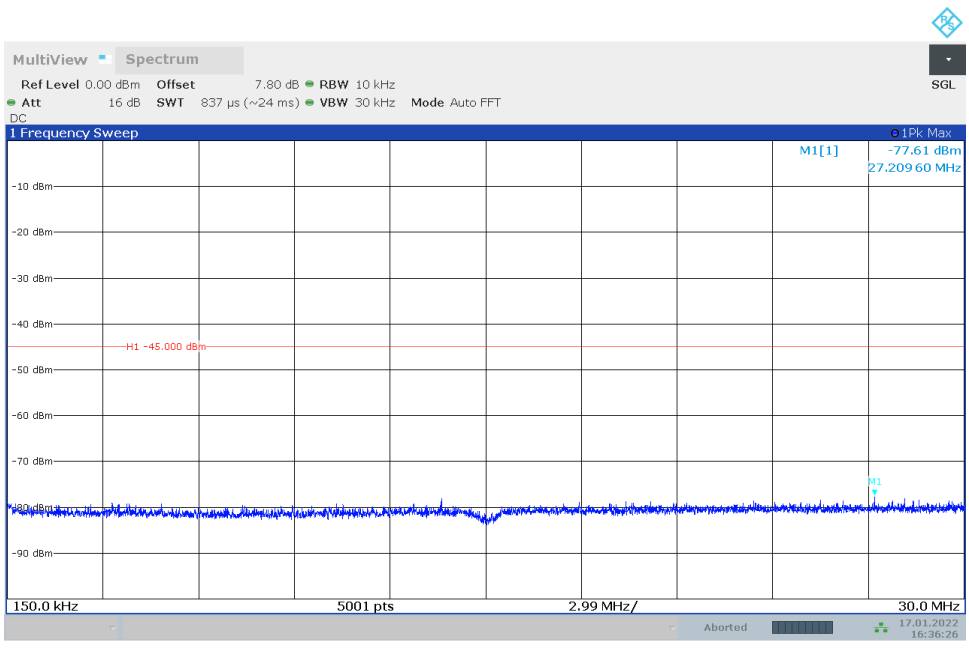


16:57:38 20.02.2022

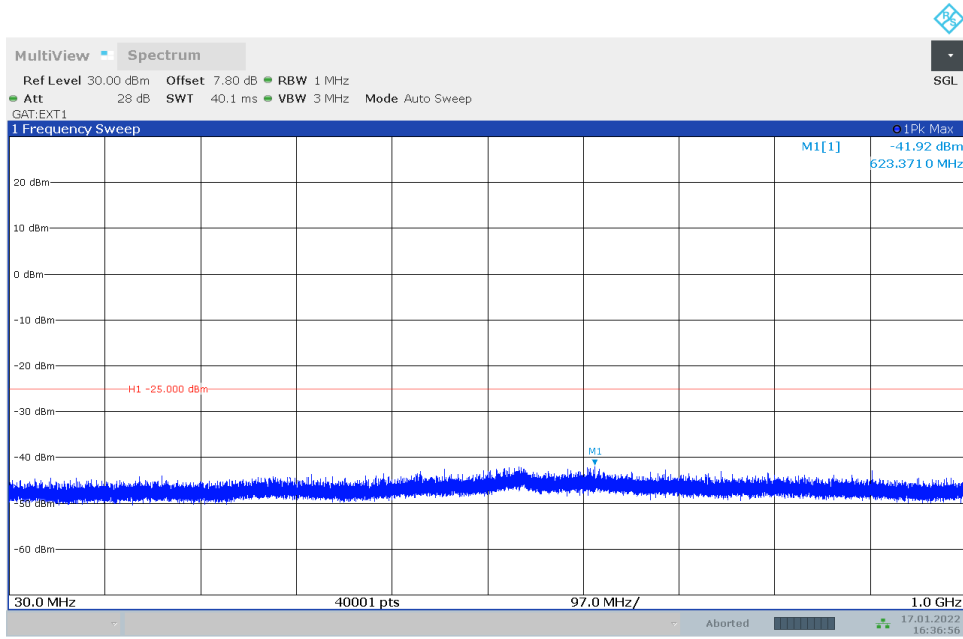
## 6.2.28 BAND 41\_TM2\_20MHZ\_LCH\_RB1#0



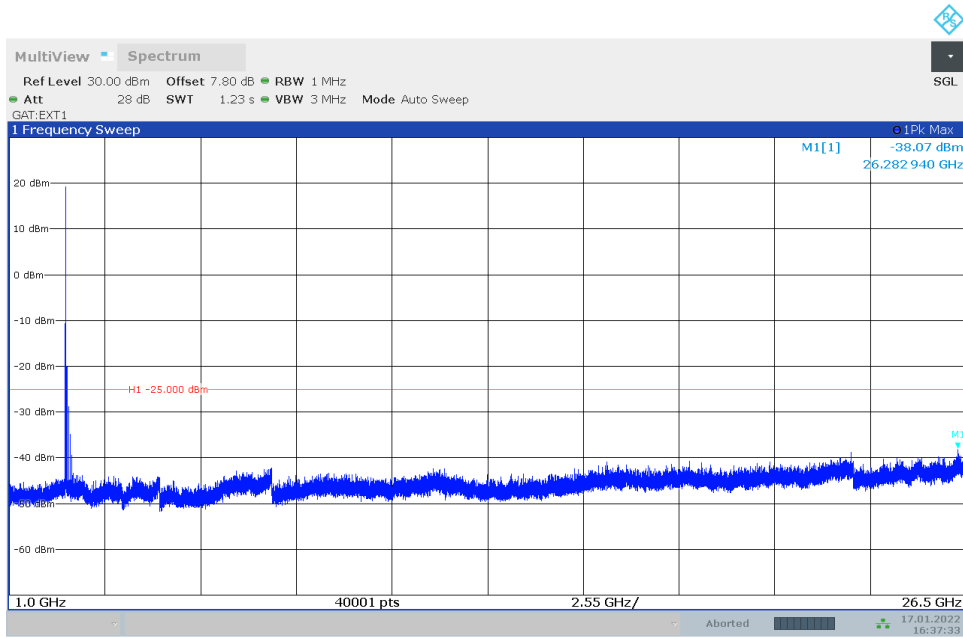
16:35:57 17.01.2022



16:36:27 17.01.2022

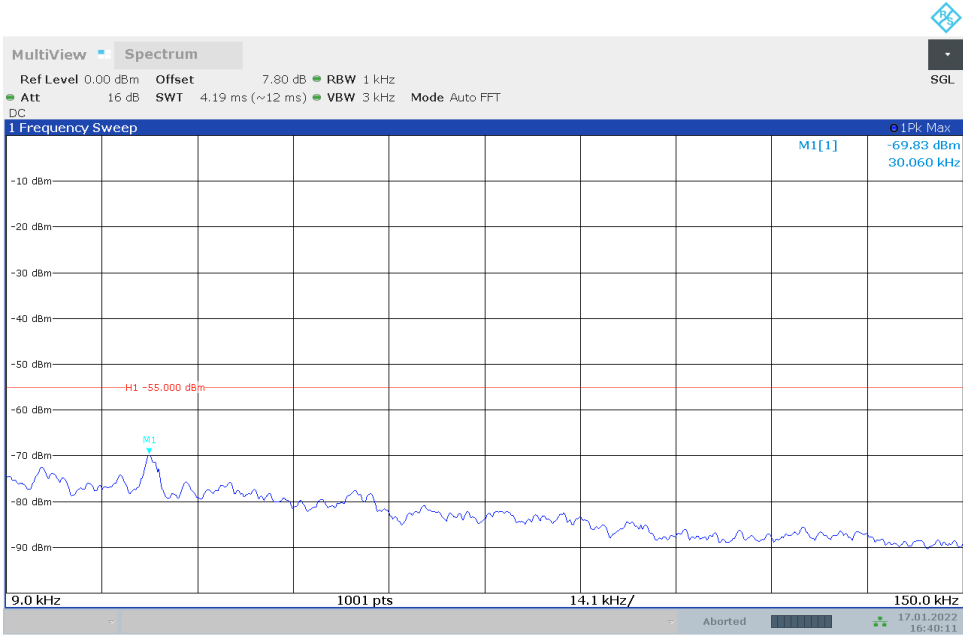


16:36:57 17.01.2022

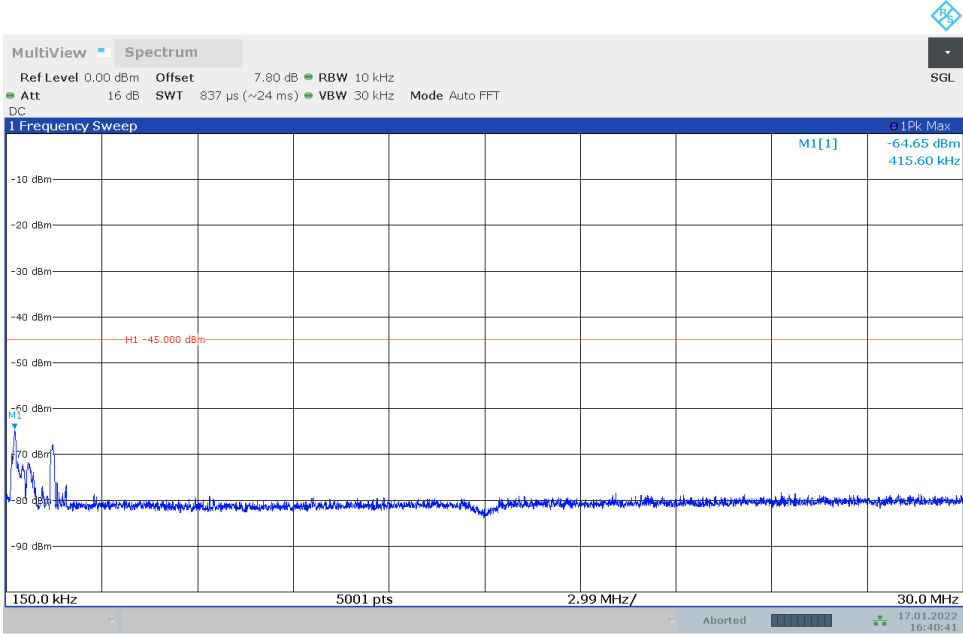


16:37:33 17.01.2022

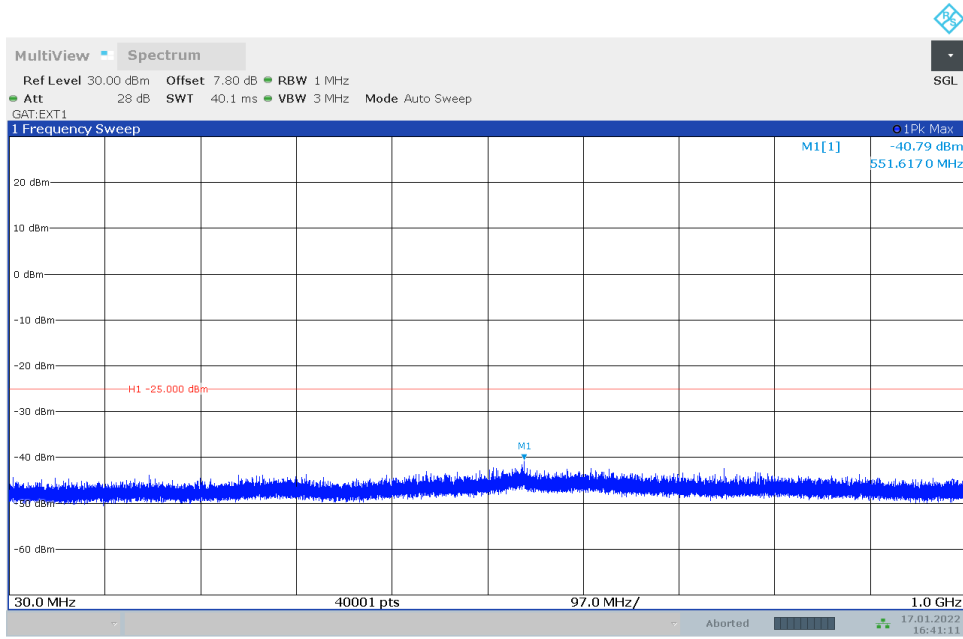
## 6.2.29 BAND 41\_TM2\_20MHZ\_LCH\_RB1#99



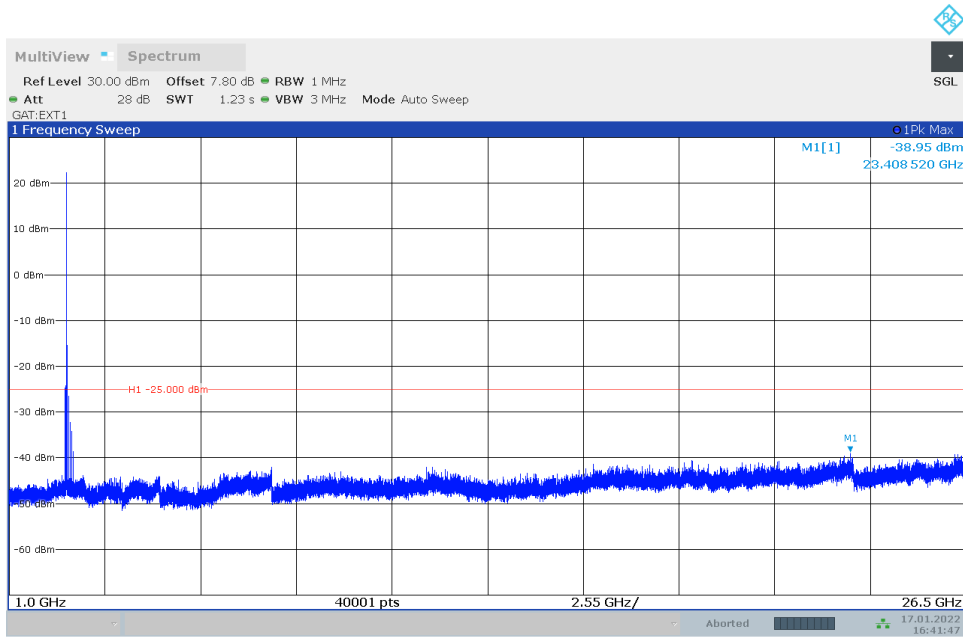
16:40:12 17.01.2022



16:40:42 17.01.2022

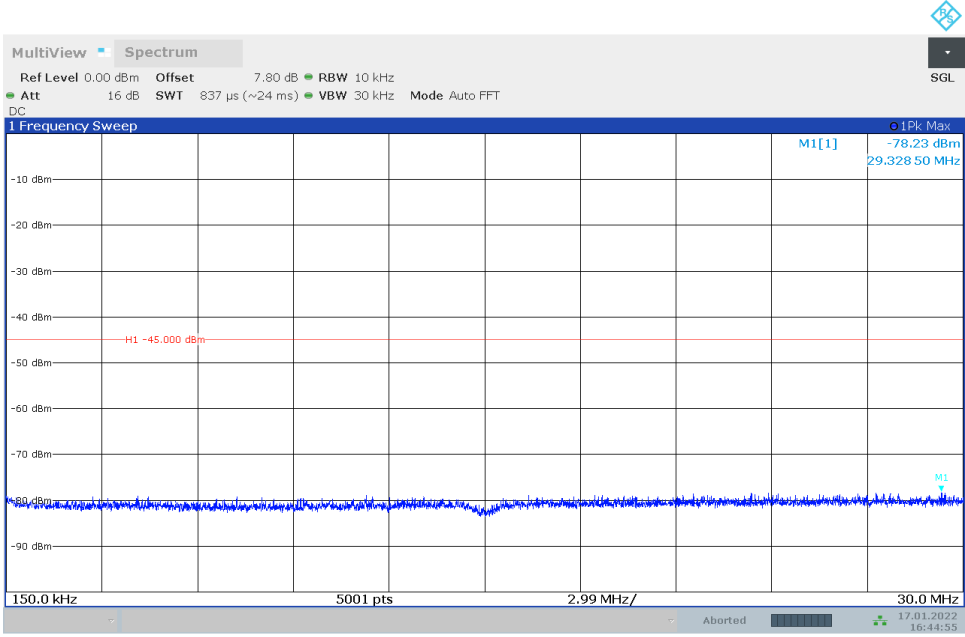
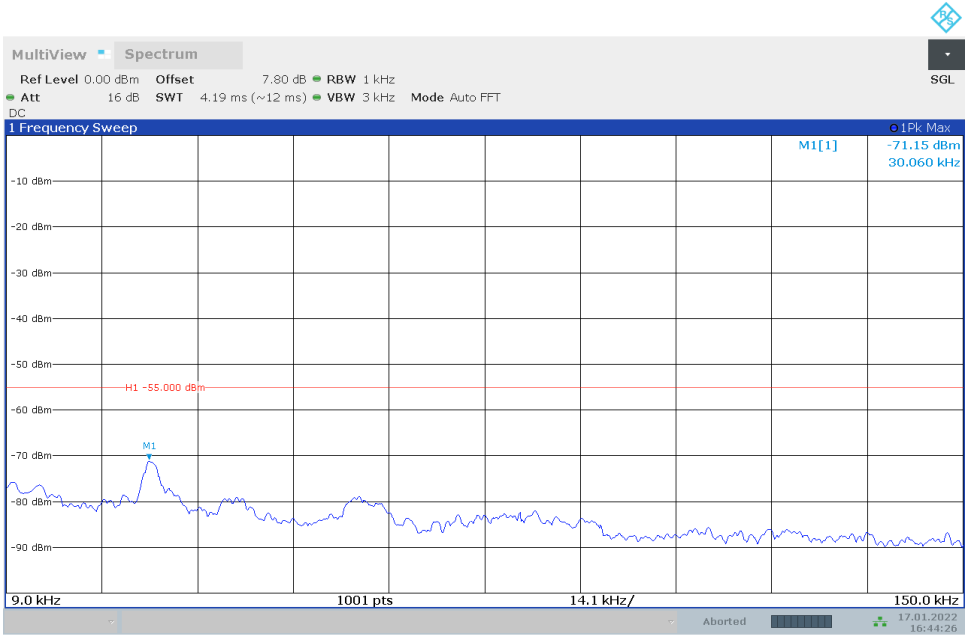


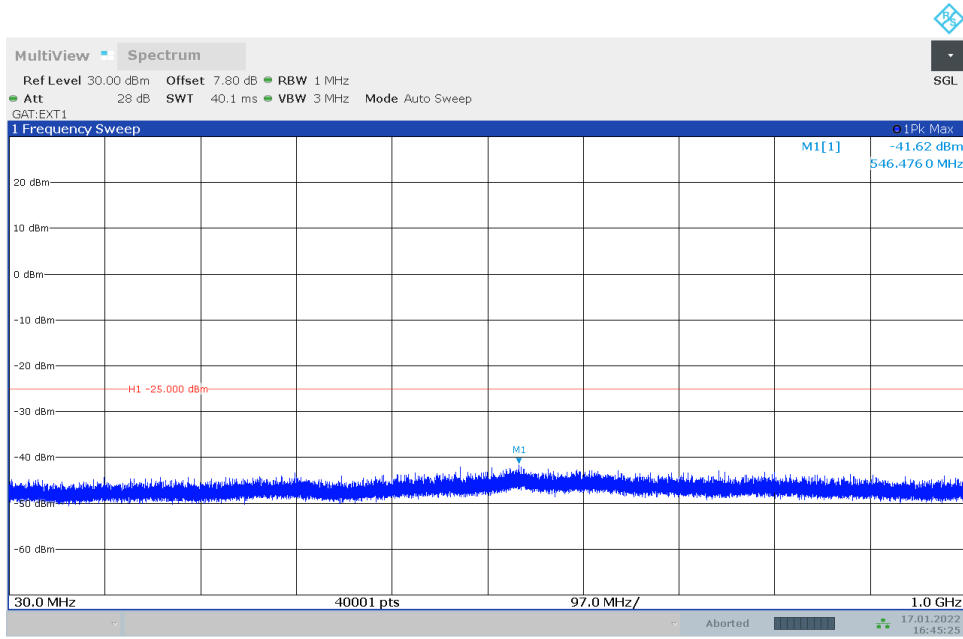
16:41:12 17.01.2022



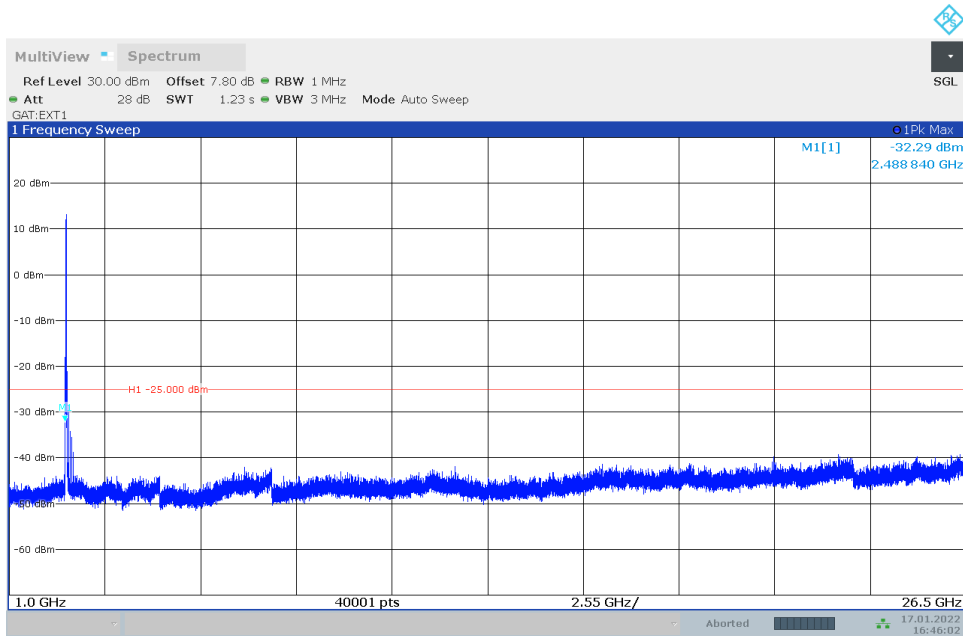
16:41:48 17.01.2022

## 6.2.30 BAND 41\_TM2\_20MHZ\_LCH\_RB100#0



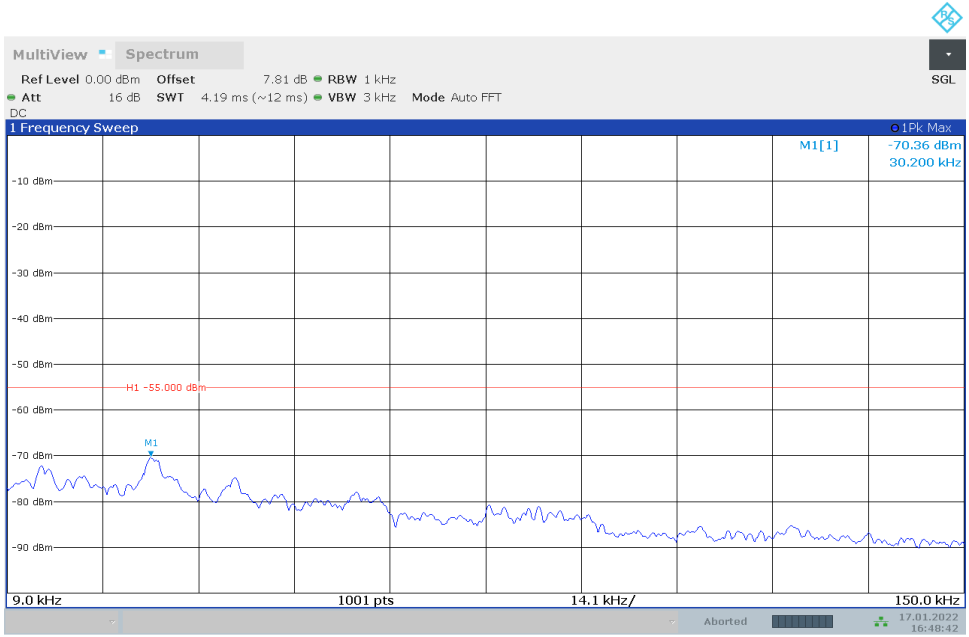


16:45:25 17.01.2022

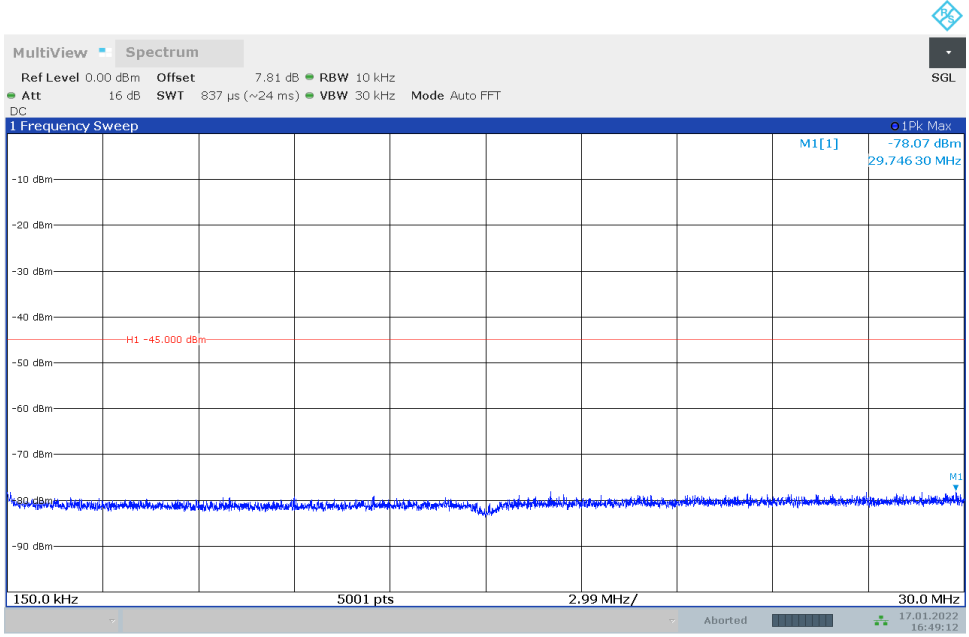


16:46:02 17.01.2022

## 6.2.31 BAND 41\_TM2\_20MHZ\_MCH\_RB1#0

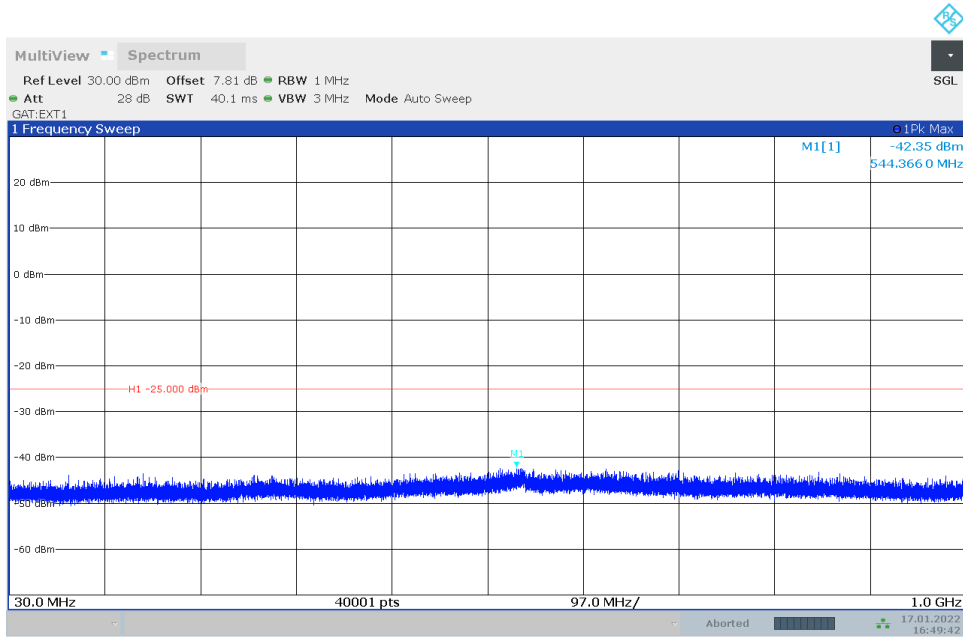


16:48:42 17.01.2022

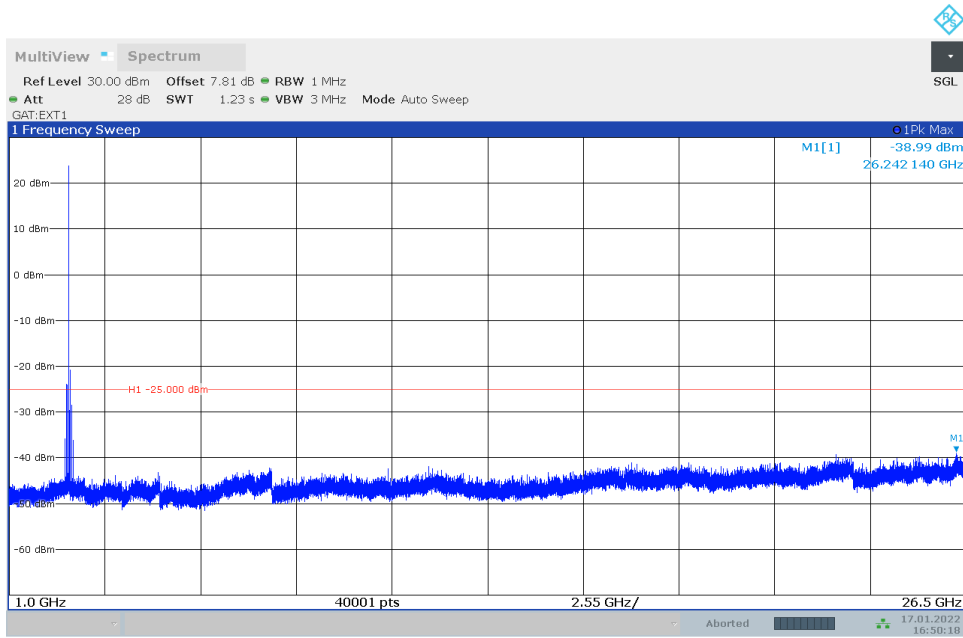


16:49:12 17.01.2022





16:49:42 17.01.2022

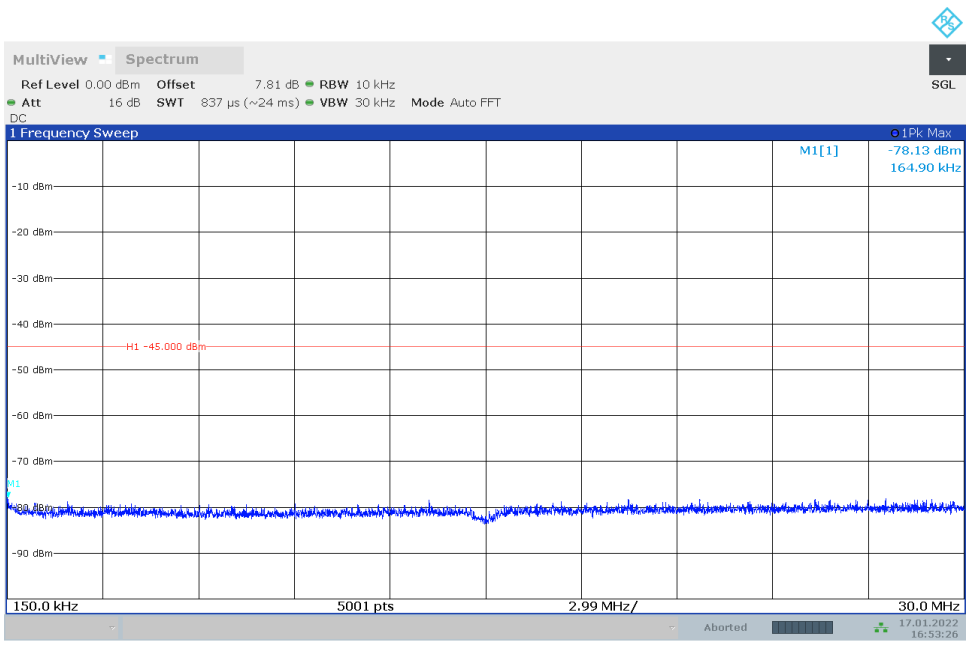


16:50:18 17.01.2022

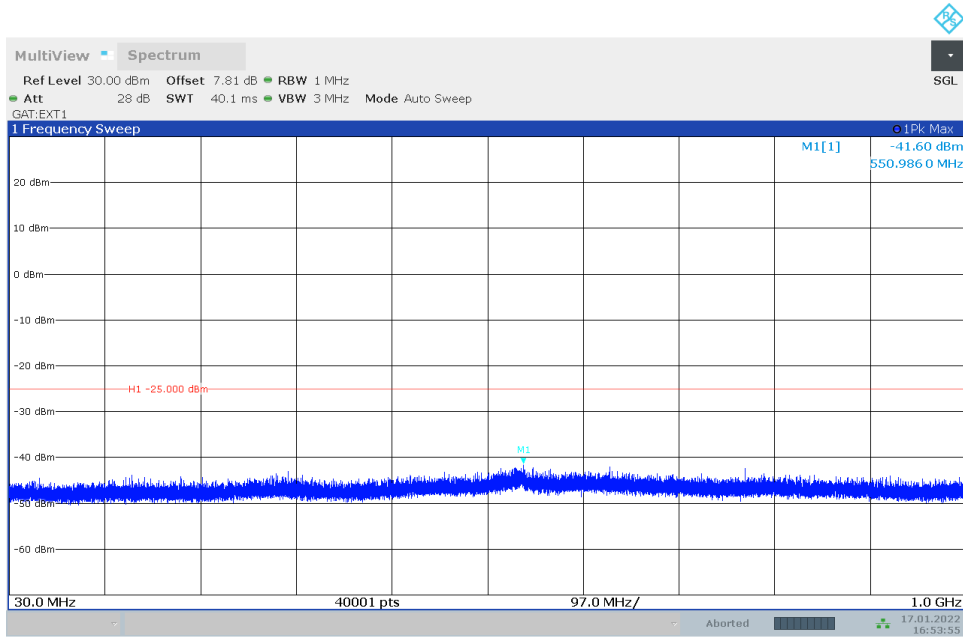
## 6.2.32 BAND 41\_TM2\_20MHZ\_MCH\_RB1#99



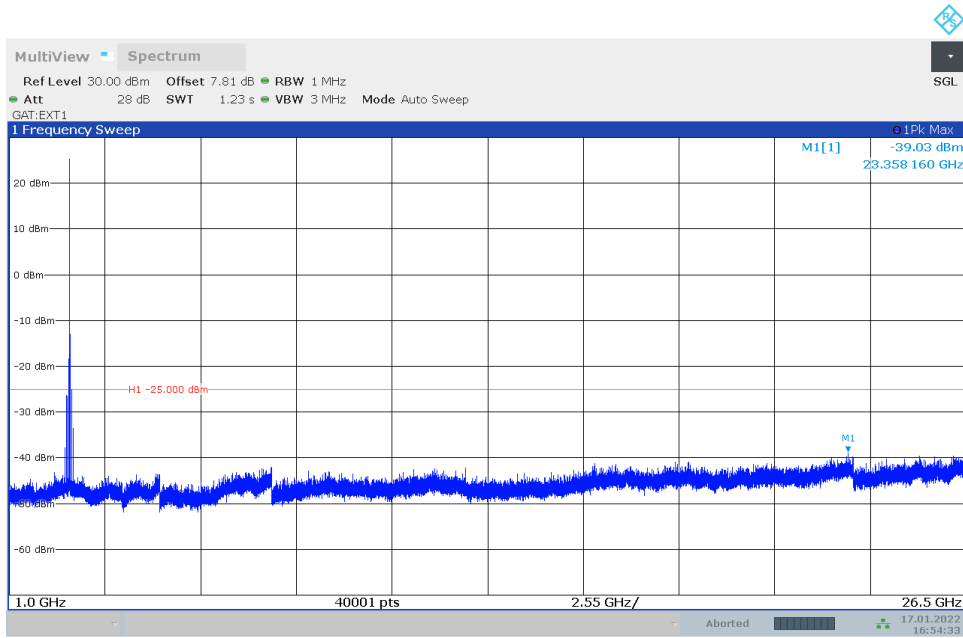
16:52:56 17.01.2022



16:53:26 17.01.2022

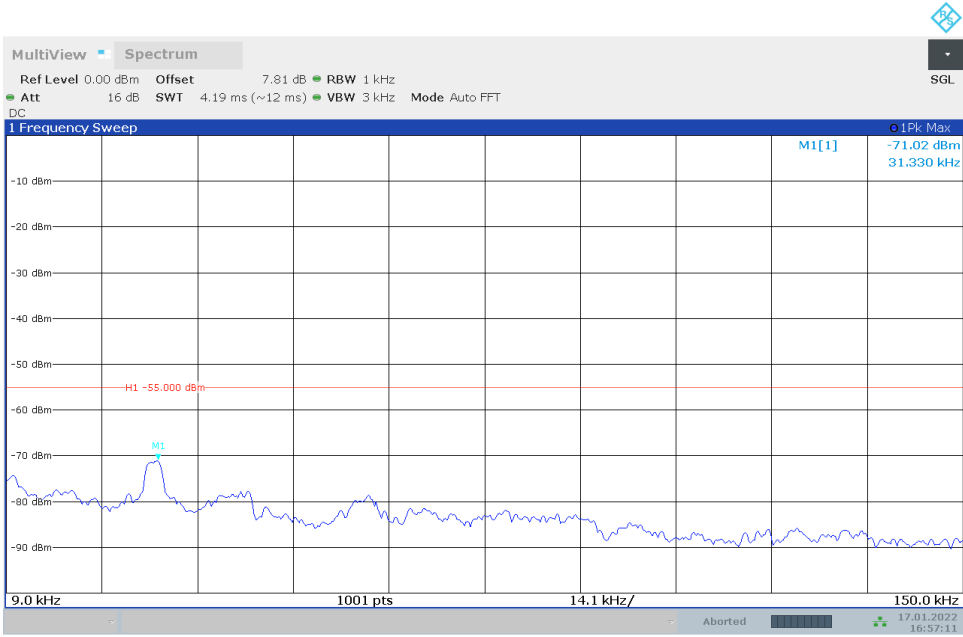


16:53:56 17.01.2022

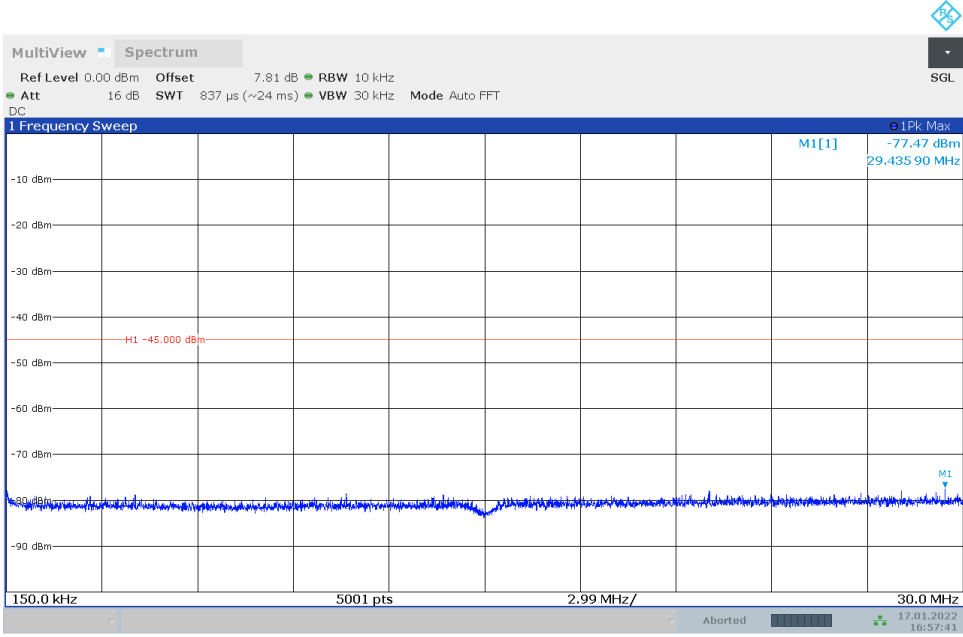


16:54:33 17.01.2022

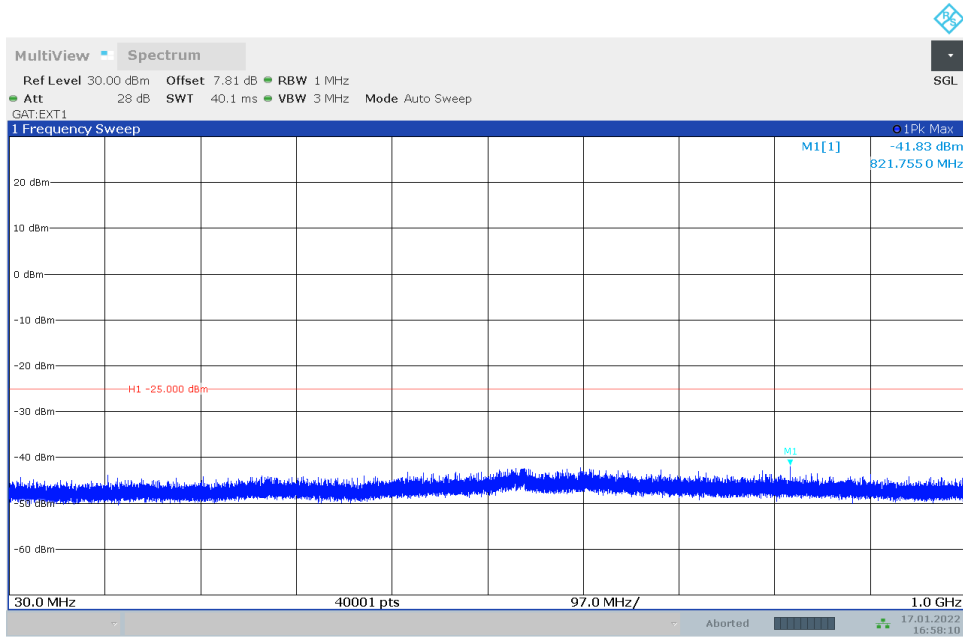
### 6.2.33 BAND 41\_TM2\_20MHZ\_MCH\_RB100#0



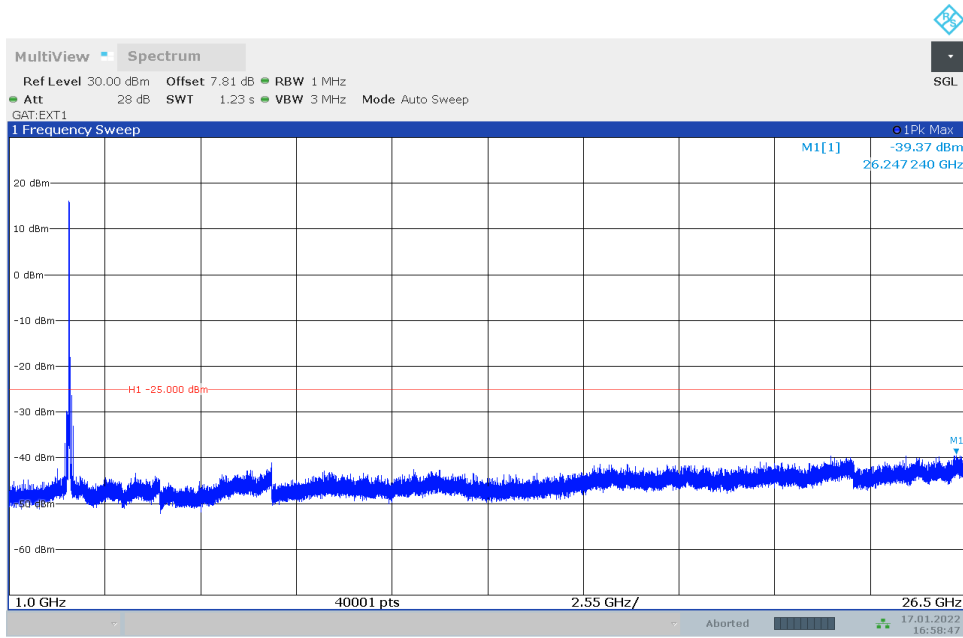
16:57:11 17.01.2022



16:57:41 17.01.2022



16:58:11 17.01.2022

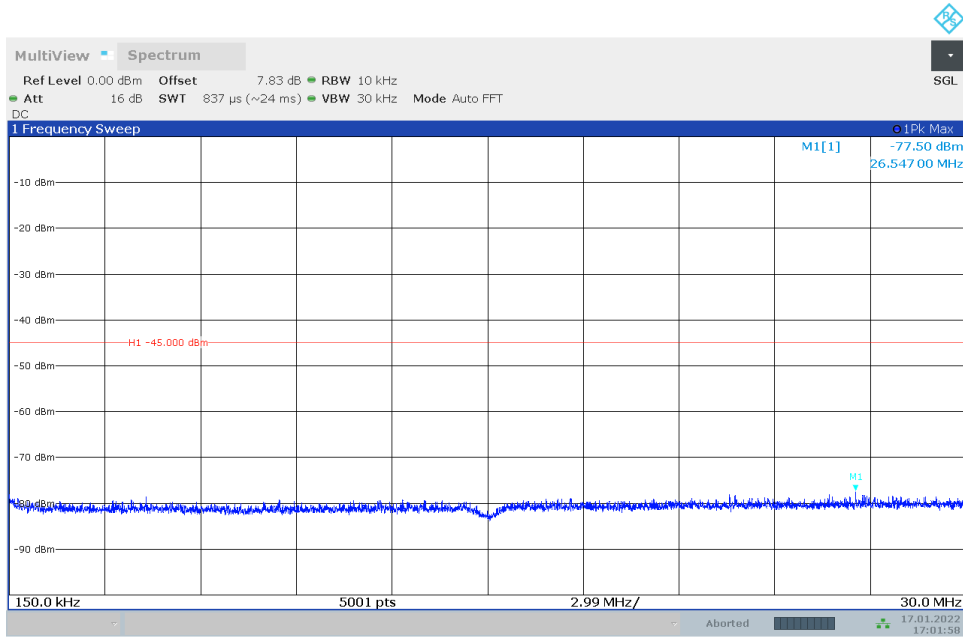


16:58:48 17.01.2022

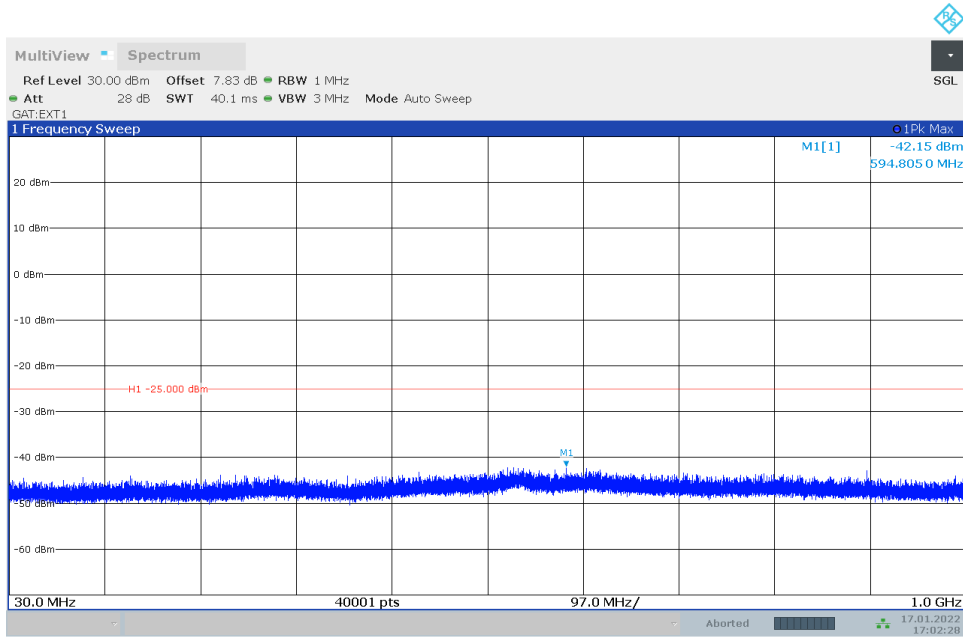
## 6.2.34 BAND 41\_TM2\_20MHZ\_HCH\_RB1#0



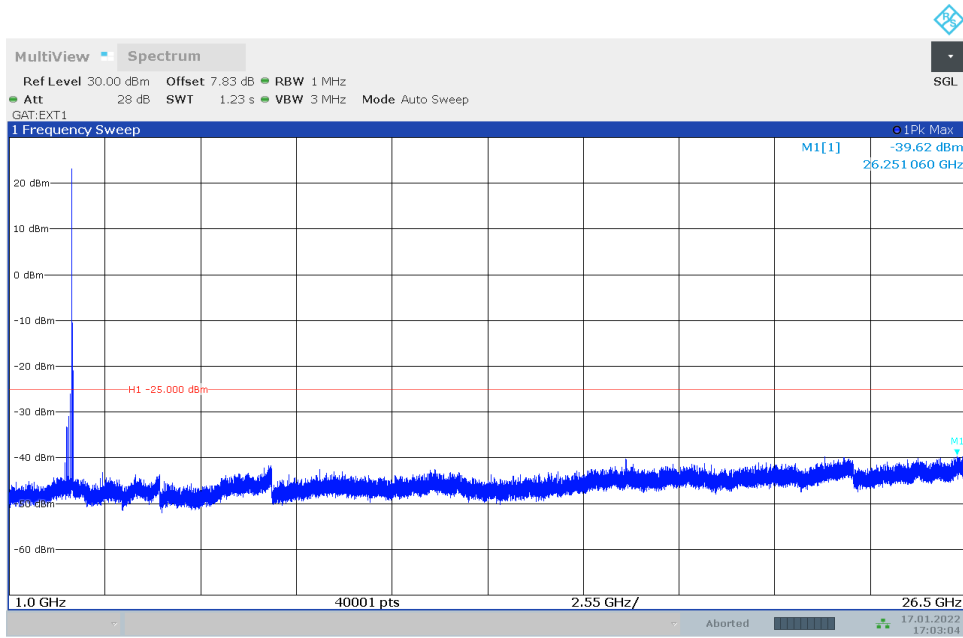
17:01:29 17.01.2022



17:01:59 17.01.2022



17:02:28 17.01.2022

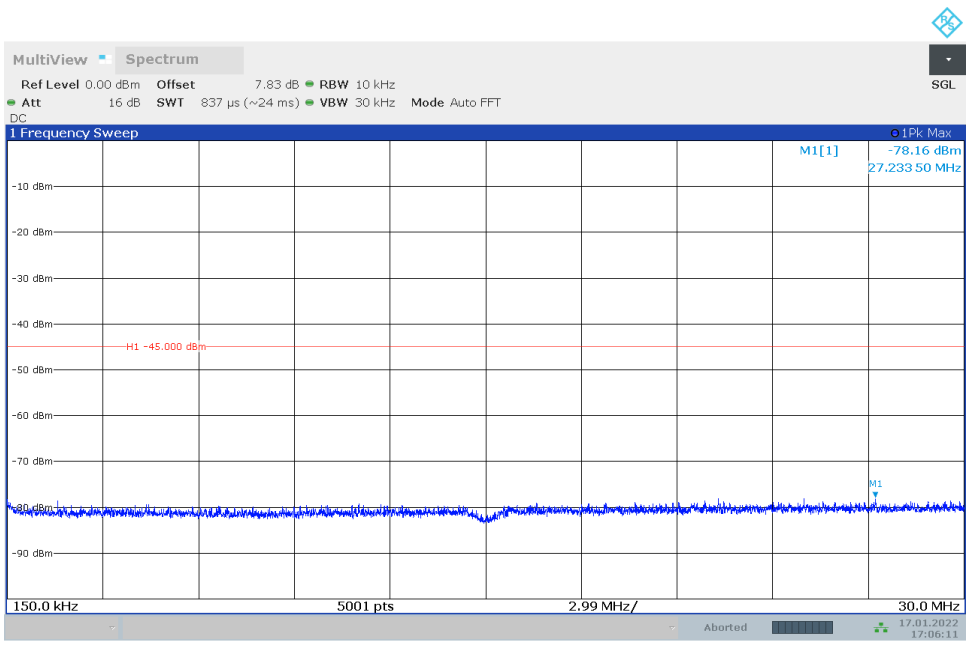


17:03:04 17.01.2022

## 6.2.35 BAND 41\_TM2\_20MHZ\_HCH\_RB1#99

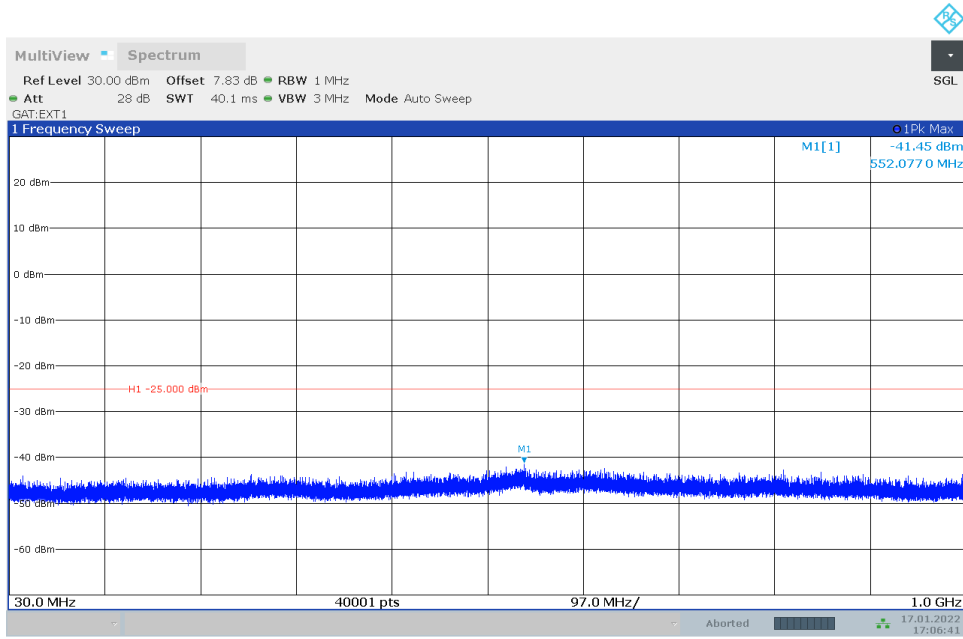


17:05:42 17.01.2022

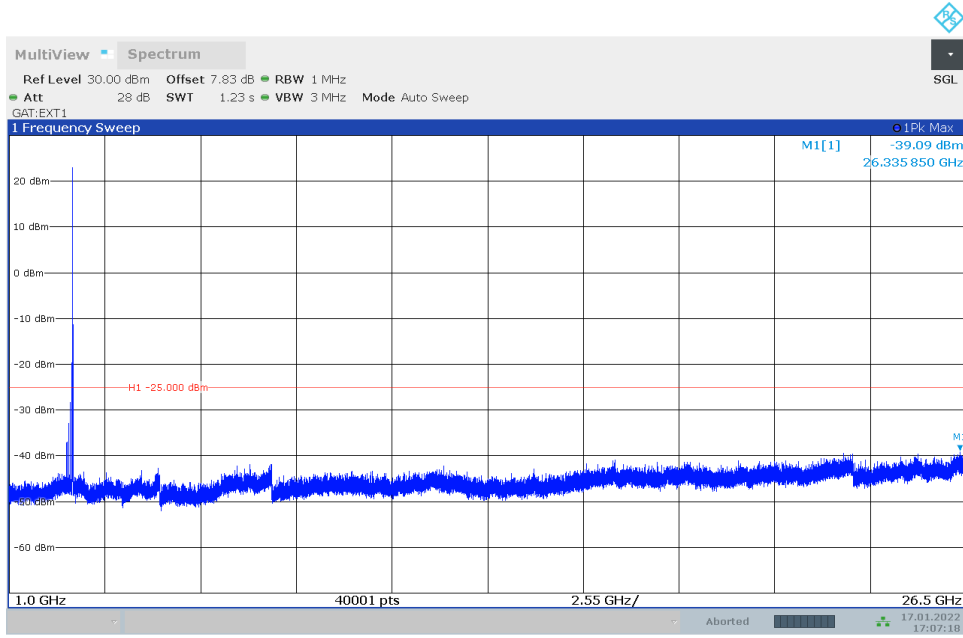


17:06:12 17.01.2022



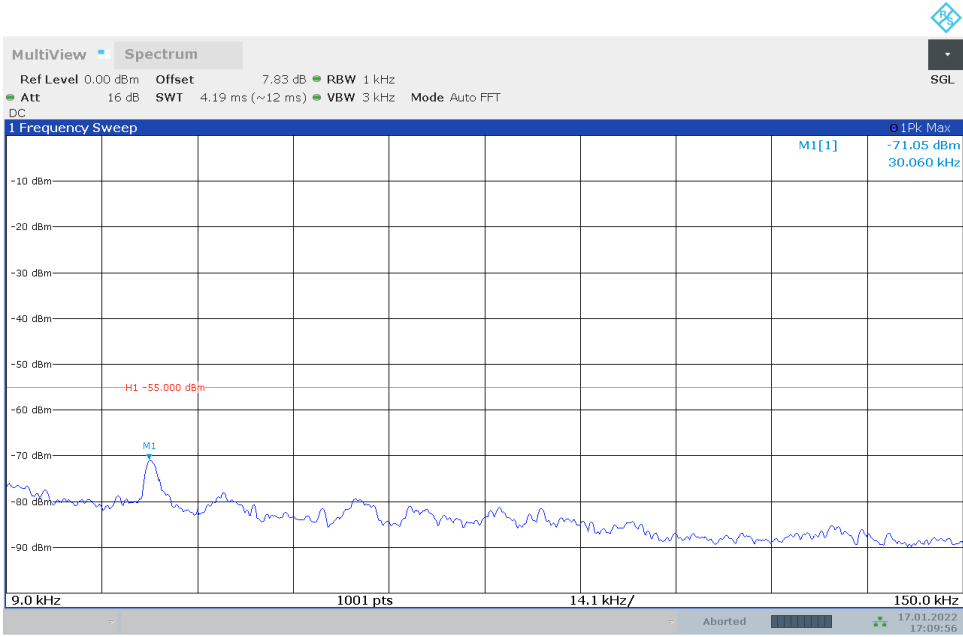


17:06:42 17.01.2022

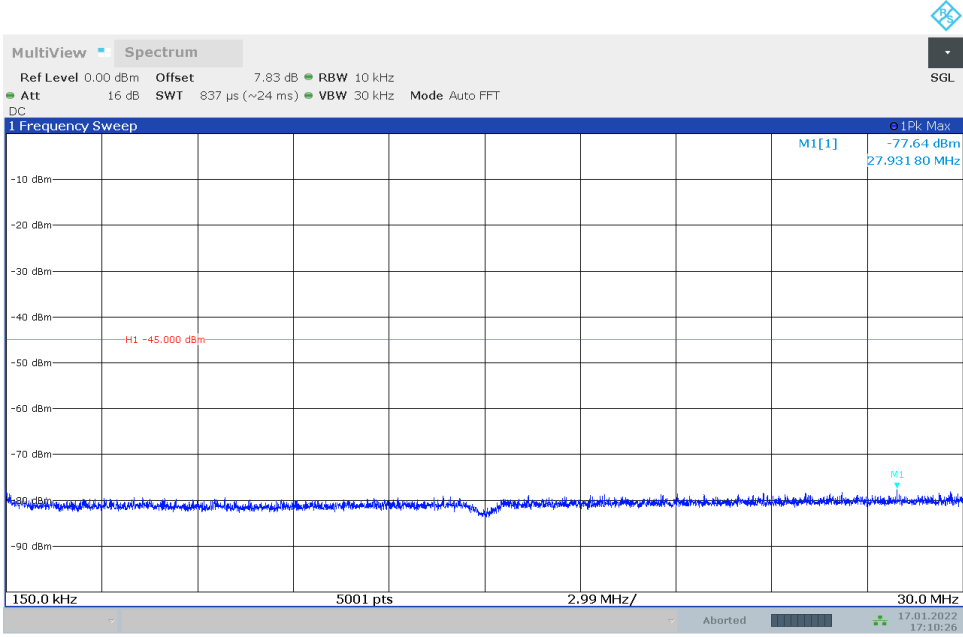


17:07:18 17.01.2022

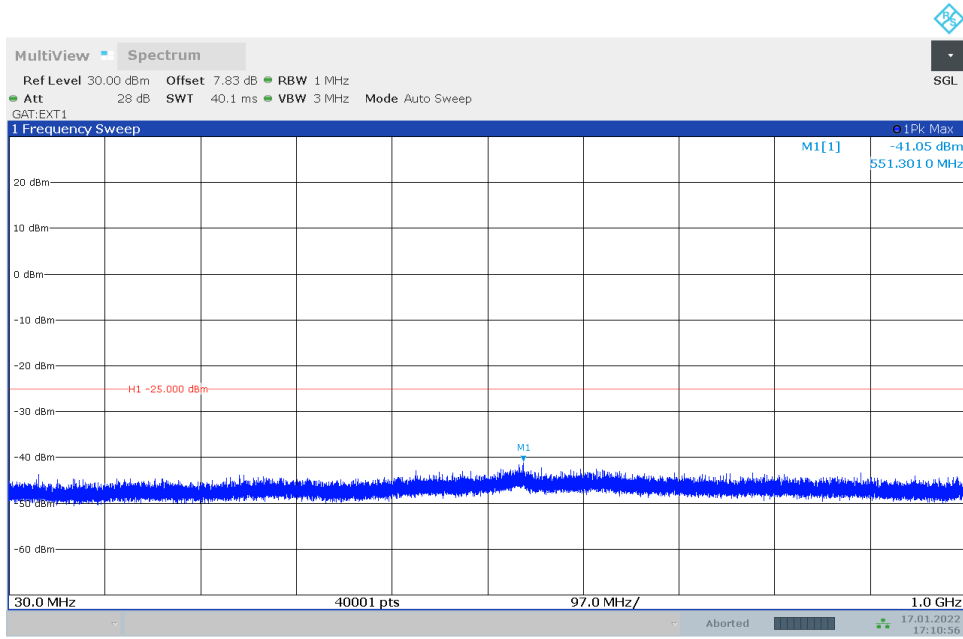
## 6.2.36 BAND 41\_TM2\_20MHZ\_HCH\_RB100#0



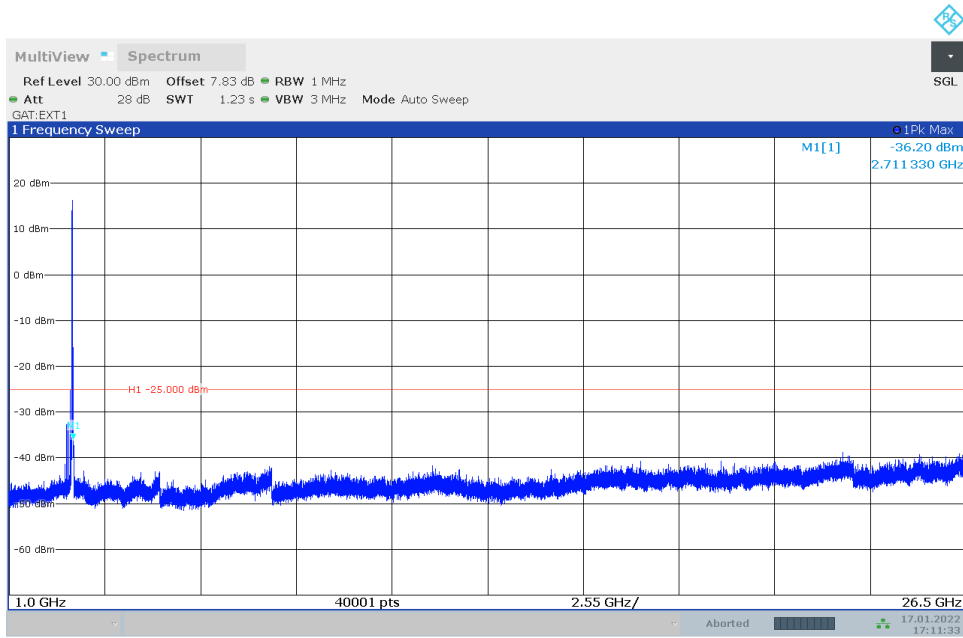
17:09:57 17.01.2022



17:10:27 17.01.2022



17:10:56 17.01.2022



17:11:33 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	
B41	TM1	5	LCH	QPSK	TN	VH	0.439	0	PASS	
				QPSK	TN	VN	-7.212	-0.003	PASS	
				QPSK	TN	VL	-19.757	-0.008	PASS	
			HCH	QPSK	TN	VH	3.081	0.001	PASS	
				QPSK	TN	VN	6.421	0.002	PASS	
				QPSK	TN	VL	4.469	0.002	PASS	
			MCH	QPSK	TN	VH	-8.695	-0.003	PASS	
				QPSK	TN	VN	-8.764	-0.003	PASS	
				QPSK	TN	VL	6.428	0.002	PASS	
			10	LCH	QPSK	TN	VH	-1.698	-0.001	PASS
					QPSK	TN	VN	-8.984	-0.004	PASS
					QPSK	TN	VL	10.018	0.004	PASS
		HCH		QPSK	TN	VH	8.453	0.003	PASS	
				QPSK	TN	VN	4.292	0.002	PASS	
				QPSK	TN	VL	6.653	0.003	PASS	
		MCH		QPSK	TN	VH	3.166	0.001	PASS	
				QPSK	TN	VN	-3.592	-0.001	PASS	
				QPSK	TN	VL	-9.328	-0.003	PASS	
		15		LCH	QPSK	TN	VH	5.717	0.002	PASS
					QPSK	TN	VN	6.888	0.003	PASS
					QPSK	TN	VL	10.333	0.004	PASS
			HCH	QPSK	TN	VH	-4.203	-0.002	PASS	
				QPSK	TN	VN	4.888	0.002	PASS	
				QPSK	TN	VL	-10.19	-0.004	PASS	
			MCH	QPSK	TN	VH	-4.061	-0.002	PASS	
				QPSK	TN	VN	4.783	0.002	PASS	
				QPSK	TN	VL	2.765	0.001	PASS	
			20	LCH	QPSK	TN	VH	2.118	0.001	PASS
					QPSK	TN	VN	6.121	0.002	PASS
					QPSK	TN	VL	-2.006	-0.001	PASS
		HCH		QPSK	TN	VH	4.989	0.002	PASS	
				QPSK	TN	VN	-0.354	0	PASS	
				QPSK	TN	VL	-2.495	-0.001	PASS	
		MCH		QPSK	TN	VH	0.939	0	PASS	
				QPSK	TN	VN	4.179	0.002	PASS	
				QPSK	TN	VL	-4.791	-0.002	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
B41	TM2	5	LCH	16QAM	TN	VH	11.948	0.005	PASS
				16QAM	TN	VN	9.648	0.004	PASS
				16QAM	TN	VL	1.285	0.001	PASS
			HCH	16QAM	TN	VH	-0.442	0	PASS
				16QAM	TN	VN	8.438	0.003	PASS
				16QAM	TN	VL	-1.421	-0.001	PASS
			MCH	16QAM	TN	VH	13.808	0.005	PASS
				16QAM	TN	VN	1.482	0.001	PASS
				16QAM	TN	VL	16.532	0.006	PASS
		10	LCH	16QAM	TN	VH	3.05	0.001	PASS
				16QAM	TN	VN	-9.312	-0.004	PASS
				16QAM	TN	VL	4.825	0.002	PASS
			HCH	16QAM	TN	VH	3.168	0.001	PASS
				16QAM	TN	VN	-7.309	-0.003	PASS
				16QAM	TN	VL	-9.35	-0.004	PASS
			MCH	16QAM	TN	VH	4.812	0.002	PASS
				16QAM	TN	VN	-4.475	-0.002	PASS
				16QAM	TN	VL	-0.184	0	PASS
		15	LCH	16QAM	TN	VH	-0.988	0	PASS
				16QAM	TN	VN	-4.075	-0.002	PASS
				16QAM	TN	VL	-0.991	0	PASS
			HCH	16QAM	TN	VH	-1.93	-0.001	PASS
				16QAM	TN	VN	2.108	0.001	PASS
				16QAM	TN	VL	-3.163	-0.001	PASS
			MCH	16QAM	TN	VH	1.017	0	PASS
				16QAM	TN	VN	-2.317	-0.001	PASS
				16QAM	TN	VL	-7.326	-0.003	PASS
		20	LCH	16QAM	TN	VH	-1.008	0	PASS
				16QAM	TN	VN	-3.026	-0.001	PASS
				16QAM	TN	VL	5.063	0.002	PASS
			HCH	16QAM	TN	VH	-2.219	-0.001	PASS
				16QAM	TN	VN	-2.258	-0.001	PASS
				16QAM	TN	VL	-0.92	0	PASS
			MCH	16QAM	TN	VH	10.817	0.004	PASS
				16QAM	TN	VN	1.172	0	PASS
				16QAM	TN	VL	-0.716	0	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
B41	TM1	5	LCH	QPSK	VN	-30	13.124	0.005	PASS
				QPSK	VN	-20	-5.102	-0.002	PASS
				QPSK	VN	-10	-1.804	-0.001	PASS
				QPSK	VN	0	9.4	0.004	PASS
				QPSK	VN	10	-3.12	-0.001	PASS
				QPSK	VN	20	5.924	0.002	PASS
				QPSK	VN	30	-6.717	-0.003	PASS
				QPSK	VN	40	0.431	0	PASS
				QPSK	VN	50	10.07	0.004	PASS
			HCH	QPSK	VN	-30	3.728	0.001	PASS
				QPSK	VN	-20	-4.227	-0.002	PASS
				QPSK	VN	-10	-1.325	-0.001	PASS
				QPSK	VN	0	-1.686	-0.001	PASS
				QPSK	VN	10	12.235	0.005	PASS
				QPSK	VN	20	30.024	0.012	PASS
				QPSK	VN	30	9.626	0.004	PASS
				QPSK	VN	40	2.974	0.001	PASS
				QPSK	VN	50	-6.147	-0.002	PASS
			MCH	QPSK	VN	-30	10.146	0.004	PASS
				QPSK	VN	-20	-2.529	-0.001	PASS
				QPSK	VN	-10	3.199	0.001	PASS
				QPSK	VN	0	11.48	0.004	PASS
				QPSK	VN	10	10.977	0.004	PASS
				QPSK	VN	20	3.549	0.001	PASS
				QPSK	VN	30	-0.137	0	PASS
				QPSK	VN	40	12.928	0.005	PASS
				QPSK	VN	50	2.517	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
B41	TM1	10	LCH	QPSK	VN	-30	-4.689	-0.002	PASS
				QPSK	VN	-20	1.001	0	PASS
				QPSK	VN	-10	-8.299	-0.003	PASS
				QPSK	VN	0	-3.099	-0.001	PASS
				QPSK	VN	10	0.262	0	PASS
				QPSK	VN	20	-5.007	-0.002	PASS
				QPSK	VN	30	-12.225	-0.005	PASS
				QPSK	VN	40	3.106	0.001	PASS
			HCH	QPSK	VN	50	5.507	0.002	PASS
				QPSK	VN	-30	-1.216	0	PASS
				QPSK	VN	-20	-5.018	-0.002	PASS
				QPSK	VN	-10	-0.553	0	PASS
				QPSK	VN	0	0.547	0	PASS
				QPSK	VN	10	-6.563	-0.003	PASS
				QPSK	VN	20	5.589	0.002	PASS
				QPSK	VN	30	2.531	0.001	PASS
			MCH	QPSK	VN	40	-2.598	-0.001	PASS
				QPSK	VN	50	7.647	0.003	PASS
				QPSK	VN	-30	3.876	0.001	PASS
				QPSK	VN	-20	-0.526	0	PASS
				QPSK	VN	-10	-1.93	-0.001	PASS
				QPSK	VN	0	0.306	0	PASS
				QPSK	VN	10	-9.408	-0.004	PASS
				QPSK	VN	20	-3.939	-0.001	PASS
	QPSK	VN	30	4.757	0.002	PASS			
	QPSK	VN	40	-1.29	0	PASS			
	QPSK	VN	50	-8.878	-0.003	PASS			
	QPSK	VN	50	-8.878	-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
B41	TM1	15	LCH	QPSK	VN	-30	-3.62	-0.001	PASS
				QPSK	VN	-20	1.388	0.001	PASS
				QPSK	VN	-10	-0.338	0	PASS
				QPSK	VN	0	-2.304	-0.001	PASS
				QPSK	VN	10	8.35	0.003	PASS
				QPSK	VN	20	2.218	0.001	PASS
				QPSK	VN	30	8.704	0.003	PASS
				QPSK	VN	40	2.56	0.001	PASS
			HCH	QPSK	VN	50	-2.938	-0.001	PASS
				QPSK	VN	-30	-4.986	-0.002	PASS
				QPSK	VN	-20	-12.489	-0.005	PASS
				QPSK	VN	-10	-5.82	-0.002	PASS
				QPSK	VN	0	-8.231	-0.003	PASS
				QPSK	VN	10	1.49	0.001	PASS
				QPSK	VN	20	-3.354	-0.001	PASS
				QPSK	VN	30	2.696	0.001	PASS
			MCH	QPSK	VN	40	-0.4	0	PASS
				QPSK	VN	50	2.159	0.001	PASS
				QPSK	VN	-30	1.287	0	PASS
				QPSK	VN	-20	-1.673	-0.001	PASS
				QPSK	VN	-10	-5.809	-0.002	PASS
				QPSK	VN	0	-6.202	-0.002	PASS
				QPSK	VN	10	-2.422	-0.001	PASS
				QPSK	VN	20	0.215	0	PASS
	QPSK	VN	30	9.277	0.003	PASS			
	QPSK	VN	40	-5.512	-0.002	PASS			
	QPSK	VN	50	1.542	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
B41	TM1	20	LCH	QPSK	VN	-30	2.101	0.001	PASS
				QPSK	VN	-20	-2.205	-0.001	PASS
				QPSK	VN	-10	0.988	0	PASS
				QPSK	VN	0	-0.393	0	PASS
				QPSK	VN	10	-5.303	-0.002	PASS
				QPSK	VN	20	-4.093	-0.002	PASS
				QPSK	VN	30	-4.225	-0.002	PASS
				QPSK	VN	40	0.174	0	PASS
			HCH	QPSK	VN	50	-2.688	-0.001	PASS
				QPSK	VN	-30	-3.153	-0.001	PASS
				QPSK	VN	-20	-5.955	-0.002	PASS
				QPSK	VN	-10	-3.993	-0.002	PASS
				QPSK	VN	0	-6.265	-0.002	PASS
				QPSK	VN	10	-2.442	-0.001	PASS
				QPSK	VN	20	0.075	0	PASS
				QPSK	VN	30	2.92	0.001	PASS
			MCH	QPSK	VN	40	-9.543	-0.004	PASS
				QPSK	VN	50	0.515	0	PASS
				QPSK	VN	-30	-2.424	-0.001	PASS
				QPSK	VN	-20	3.762	0.001	PASS
				QPSK	VN	-10	-7.533	-0.003	PASS
				QPSK	VN	0	1.402	0.001	PASS
				QPSK	VN	10	-6.309	-0.002	PASS
				QPSK	VN	20	8.899	0.003	PASS
QPSK	VN	30	6.062	0.002	PASS				
QPSK	VN	40	3.444	0.001	PASS				
QPSK	VN	50	1.284	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
B41	TM2	5	LCH	16QAM	VN	-30	9.242	0.004	PASS
				16QAM	VN	-20	19.248	0.008	PASS
				16QAM	VN	-10	-2.349	-0.001	PASS
				16QAM	VN	0	10.025	0.004	PASS
				16QAM	VN	10	0.192	0	PASS
				16QAM	VN	20	2.395	0.001	PASS
				16QAM	VN	30	-6.278	-0.003	PASS
				16QAM	VN	40	1.501	0.001	PASS
			HCH	16QAM	VN	50	8.881	0.004	PASS
				16QAM	VN	-30	7.374	0.003	PASS
				16QAM	VN	-20	-4.014	-0.002	PASS
				16QAM	VN	-10	-5.479	-0.002	PASS
				16QAM	VN	0	-6.606	-0.003	PASS
				16QAM	VN	10	5.026	0.002	PASS
				16QAM	VN	20	6.682	0.003	PASS
				16QAM	VN	30	-3.843	-0.001	PASS
			MCH	16QAM	VN	40	8.986	0.003	PASS
				16QAM	VN	50	-3.81	-0.001	PASS
				16QAM	VN	-30	25.209	0.009	PASS
				16QAM	VN	-20	-8.811	-0.003	PASS
				16QAM	VN	-10	8.086	0.003	PASS
				16QAM	VN	0	6.323	0.002	PASS
				16QAM	VN	10	3.863	0.001	PASS
				16QAM	VN	20	7.816	0.003	PASS
16QAM	VN	30	11.701	0.004	PASS				
16QAM	VN	40	-0.952	0	PASS				
16QAM	VN	50	14.935	0.006	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
B41	TM2	10	LCH	16QAM	VN	-30	-13.549	-0.005	PASS
				16QAM	VN	-20	-8.906	-0.004	PASS
				16QAM	VN	-10	-1.385	-0.001	PASS
				16QAM	VN	0	2.254	0.001	PASS
				16QAM	VN	10	4.906	0.002	PASS
				16QAM	VN	20	-4.102	-0.002	PASS
				16QAM	VN	30	0.995	0	PASS
				16QAM	VN	40	-1.019	0	PASS
			HCH	16QAM	VN	50	-0.032	0	PASS
				16QAM	VN	-30	-4.56	-0.002	PASS
				16QAM	VN	-20	1.77	0.001	PASS
				16QAM	VN	-10	-4.588	-0.002	PASS
				16QAM	VN	0	-5.71	-0.002	PASS
				16QAM	VN	10	-2.756	-0.001	PASS
				16QAM	VN	20	0.341	0	PASS
				16QAM	VN	30	-2.203	-0.001	PASS
			MCH	16QAM	VN	40	1.3	0.001	PASS
				16QAM	VN	50	-5.951	-0.002	PASS
				16QAM	VN	-30	-5.588	-0.002	PASS
				16QAM	VN	-20	-8.257	-0.003	PASS
				16QAM	VN	-10	-7.69	-0.003	PASS
				16QAM	VN	0	3.251	0.001	PASS
				16QAM	VN	10	-12.031	-0.004	PASS
				16QAM	VN	20	-1.055	0	PASS
16QAM	VN	30	0.257	0	PASS				
16QAM	VN	40	5.103	0.002	PASS				
16QAM	VN	50	6.68	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
B41	TM2	15	LCH	16QAM	VN	-30	-2.975	-0.001	PASS
				16QAM	VN	-20	-5.057	-0.002	PASS
				16QAM	VN	-10	2.655	0.001	PASS
				16QAM	VN	0	-2.532	-0.001	PASS
				16QAM	VN	10	-0.879	0	PASS
				16QAM	VN	20	4.154	0.002	PASS
				16QAM	VN	30	0.588	0	PASS
				16QAM	VN	40	-1.15	0	PASS
			HCH	16QAM	VN	50	-2.754	-0.001	PASS
				16QAM	VN	-30	-5.421	-0.002	PASS
				16QAM	VN	-20	-7.163	-0.003	PASS
				16QAM	VN	-10	-4.242	-0.002	PASS
				16QAM	VN	0	-7.027	-0.003	PASS
				16QAM	VN	10	0.302	0	PASS
				16QAM	VN	20	-3.927	-0.002	PASS
				16QAM	VN	30	-2.051	-0.001	PASS
			MCH	16QAM	VN	40	0.581	0	PASS
				16QAM	VN	50	-3.748	-0.001	PASS
				16QAM	VN	-30	-3.192	-0.001	PASS
				16QAM	VN	-20	6.037	0.002	PASS
				16QAM	VN	-10	3.73	0.001	PASS
				16QAM	VN	0	2.759	0.001	PASS
				16QAM	VN	10	4.367	0.002	PASS
				16QAM	VN	20	0.083	0	PASS
16QAM	VN	30	-1.282	0	PASS				
16QAM	VN	40	7.44	0.003	PASS				
16QAM	VN	50	-3.045	-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
B41	TM2	20	LCH	16QAM	VN	-30	1.24	0	PASS
				16QAM	VN	-20	-4.474	-0.002	PASS
				16QAM	VN	-10	-2.158	-0.001	PASS
				16QAM	VN	0	-6.31	-0.003	PASS
				16QAM	VN	10	1.273	0.001	PASS
				16QAM	VN	20	-3.079	-0.001	PASS
				16QAM	VN	30	1.212	0	PASS
				16QAM	VN	40	-0.458	0	PASS
			HCH	16QAM	VN	50	-1.745	-0.001	PASS
				16QAM	VN	-30	-5.002	-0.002	PASS
				16QAM	VN	-20	-0.307	0	PASS
				16QAM	VN	-10	1.306	0.001	PASS
				16QAM	VN	0	-7.309	-0.003	PASS
				16QAM	VN	10	-0.69	0	PASS
				16QAM	VN	20	-1.767	-0.001	PASS
				16QAM	VN	30	-0.806	0	PASS
			MCH	16QAM	VN	40	-5.638	-0.002	PASS
				16QAM	VN	50	-1.595	-0.001	PASS
				16QAM	VN	-30	-2.353	-0.001	PASS
				16QAM	VN	-20	-1.956	-0.001	PASS
				16QAM	VN	-10	-2.857	-0.001	PASS
				16QAM	VN	0	-9.594	-0.004	PASS
				16QAM	VN	10	6.793	0.003	PASS
				16QAM	VN	20	0.92	0	PASS
16QAM	VN	30	0.478	0	PASS				
16QAM	VN	40	-6.046	-0.002	PASS				
16QAM	VN	50	0.742	0	PASS				

End of Test Report