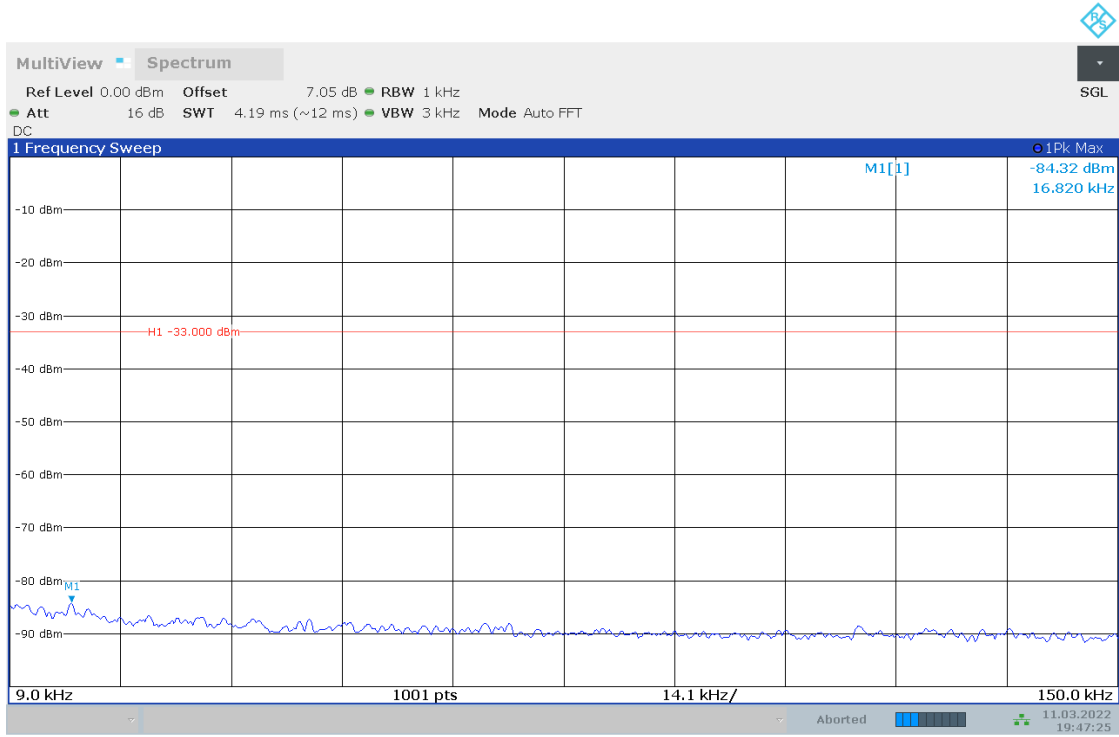
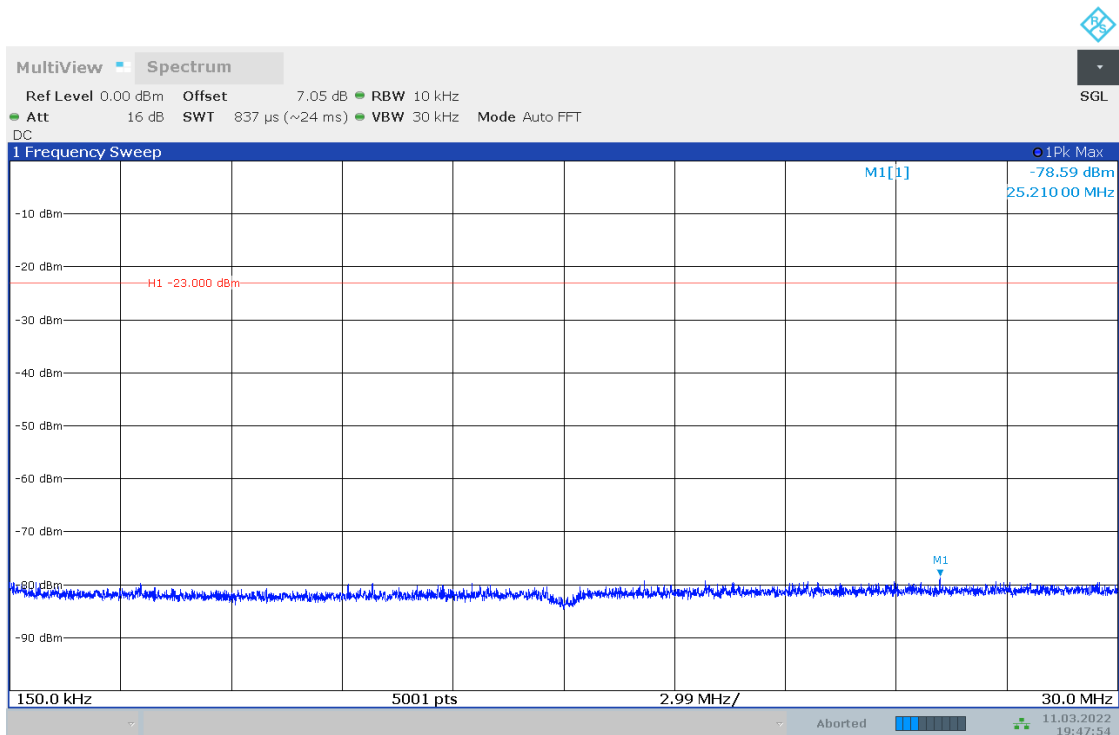


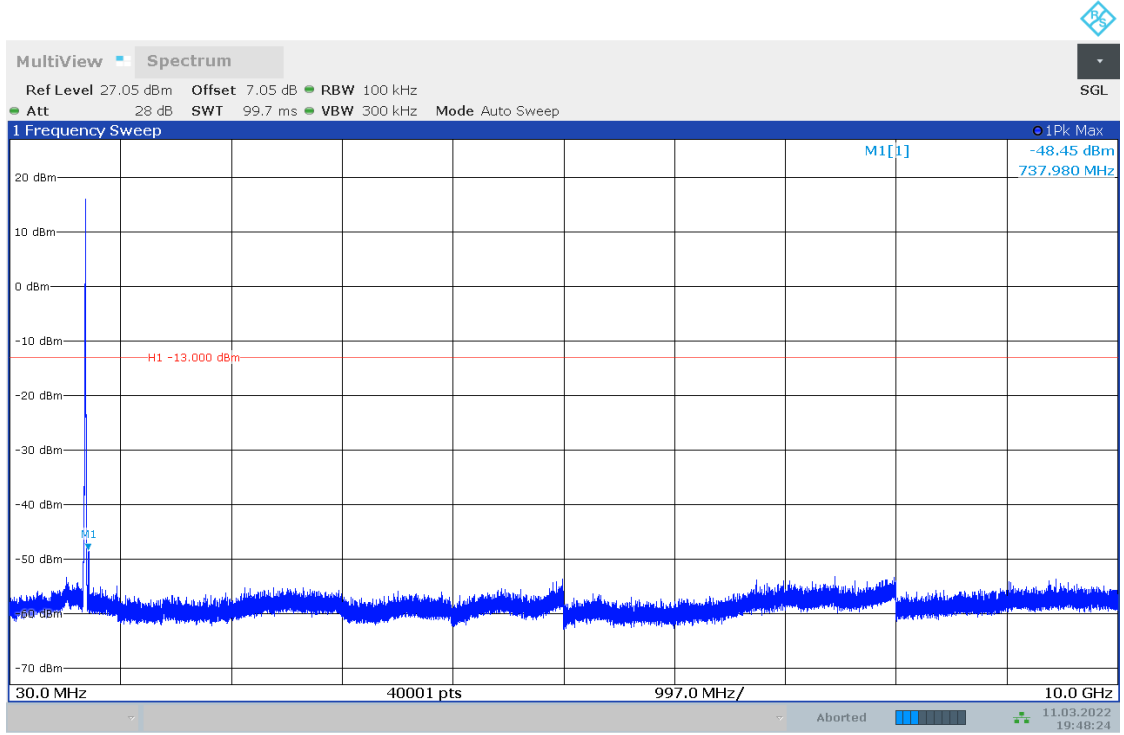
## 6.2.24 TM2\_5MHZ\_MCH\_RB25#0



19:47:26 11.03.2022

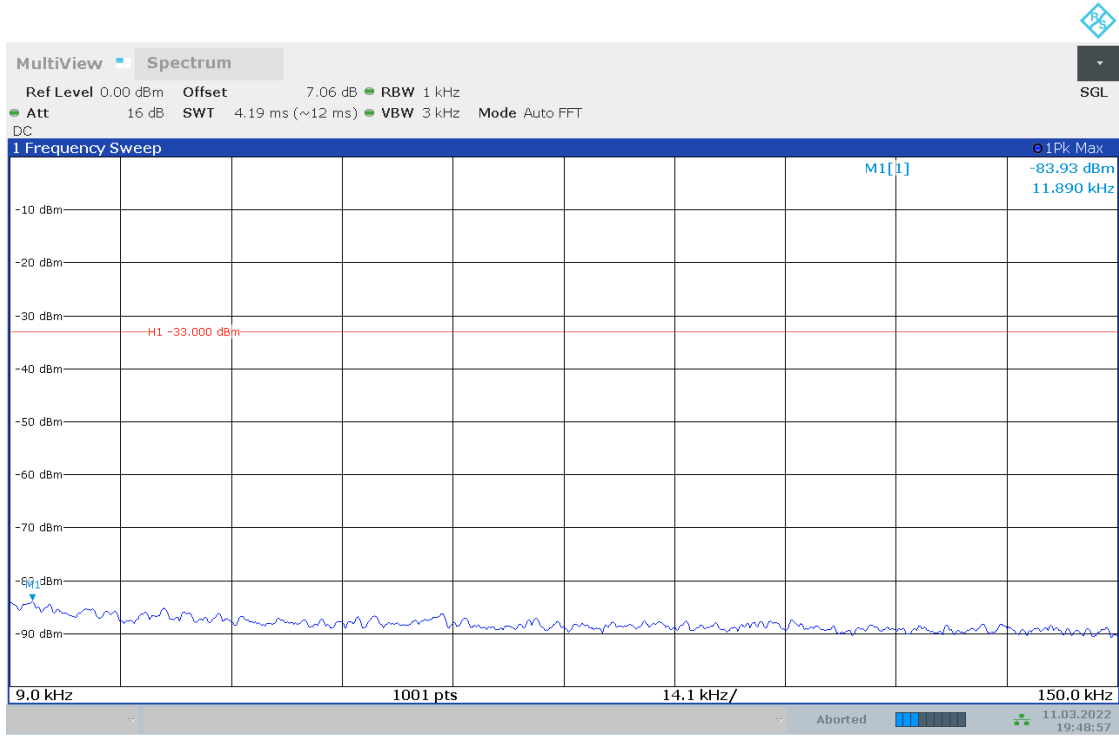


19:47:55 11.03.2022

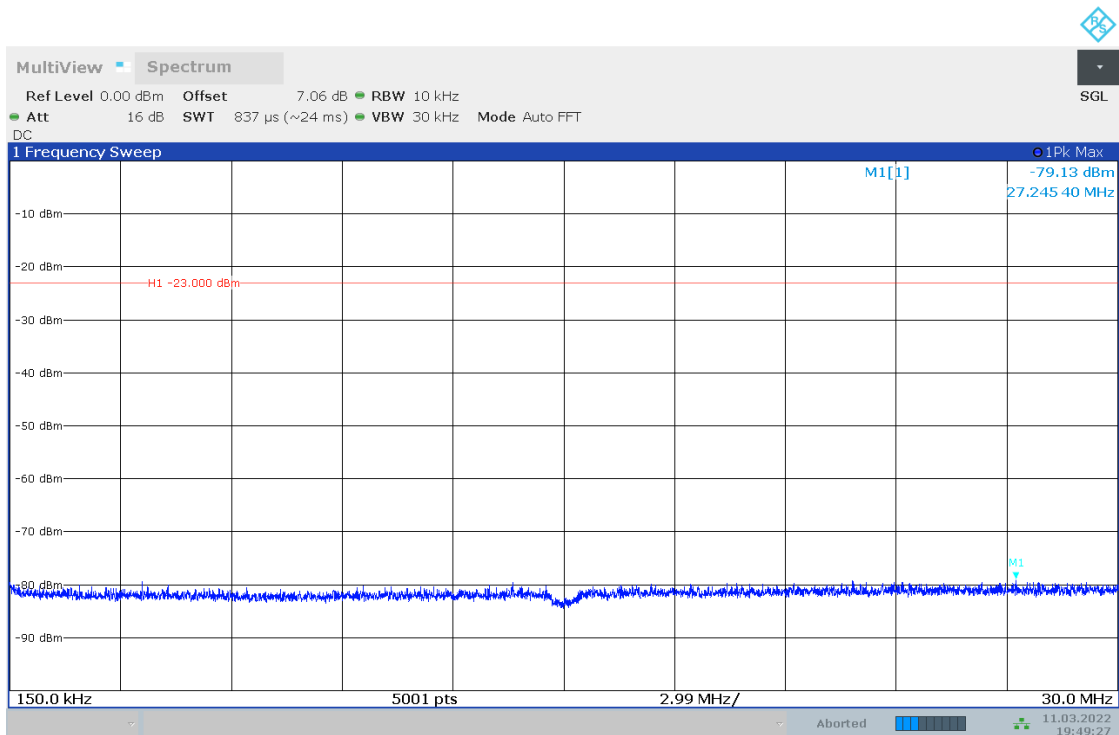


19:48:25 11.03.2022

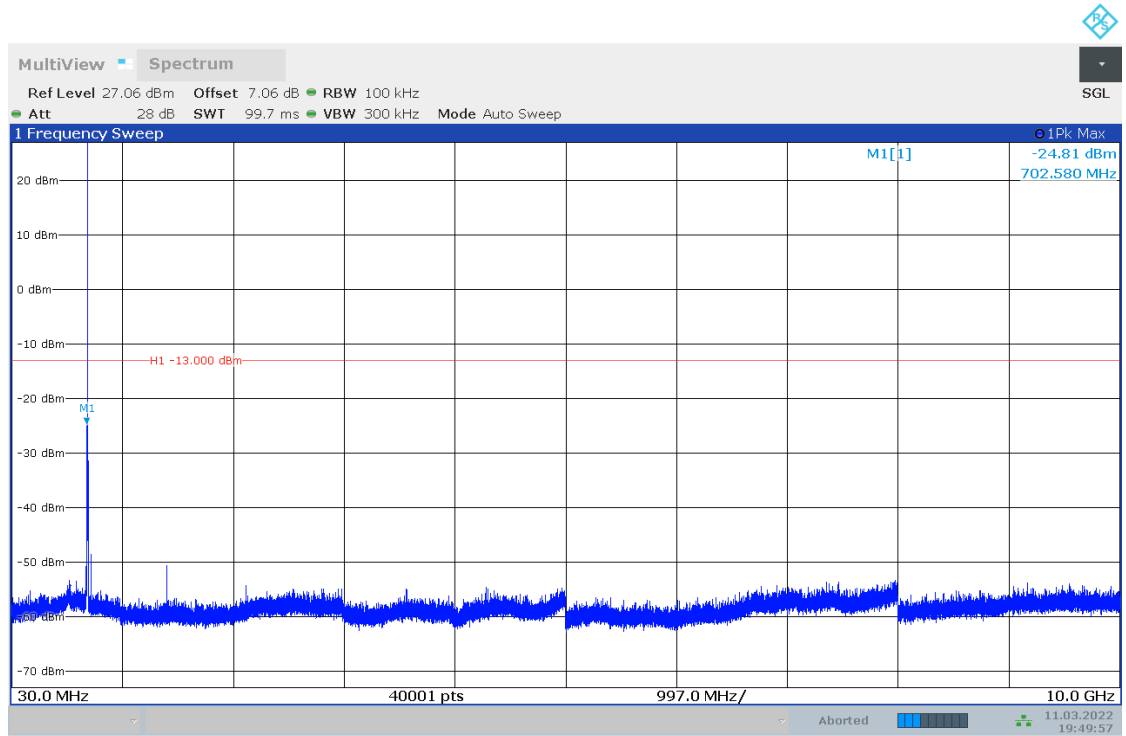
## 6.2.25 TM2\_5MHZ\_HCH\_RB1#0



19:48:58 11.03.2022

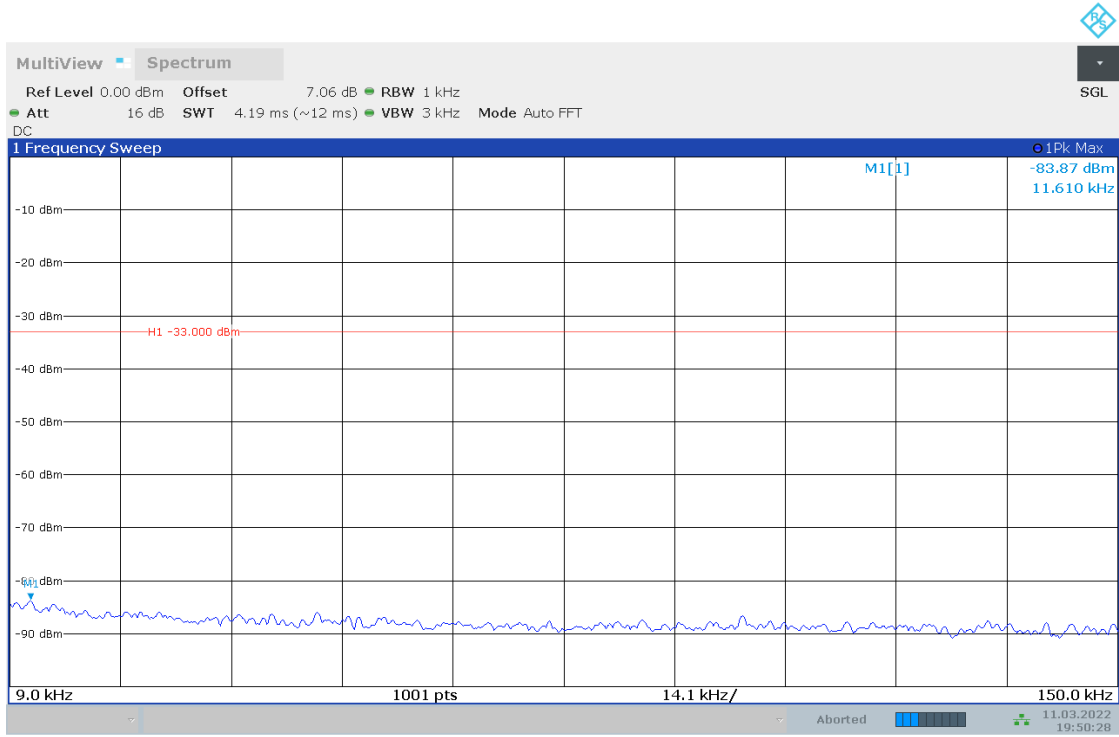


19:49:27 11.03.2022

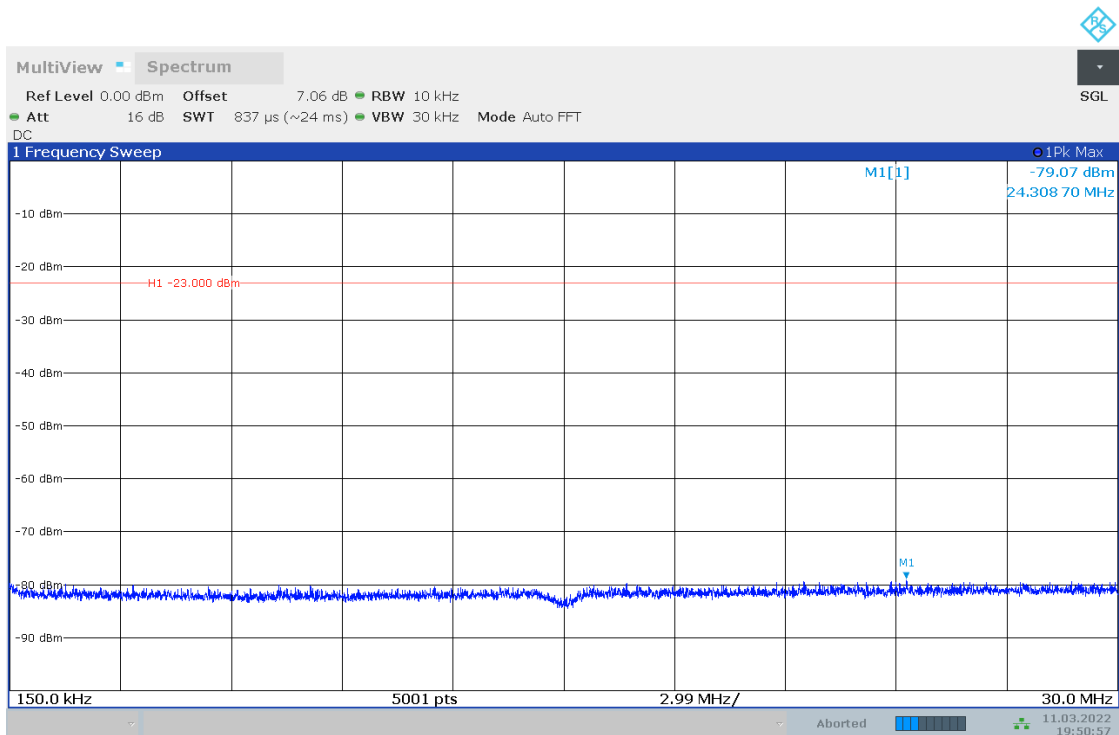


19:49:58 11.03.2022

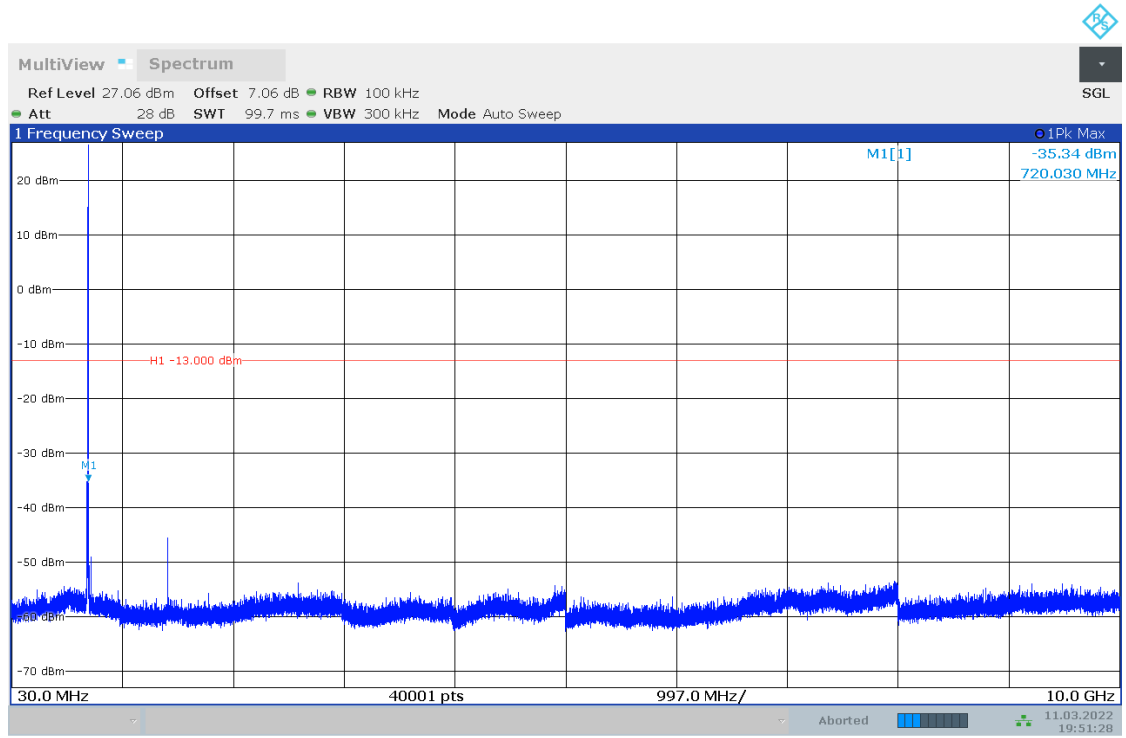
## 6.2.26 TM2\_5MHZ\_HCH\_RB1#24



19:50:29 11.03.2022

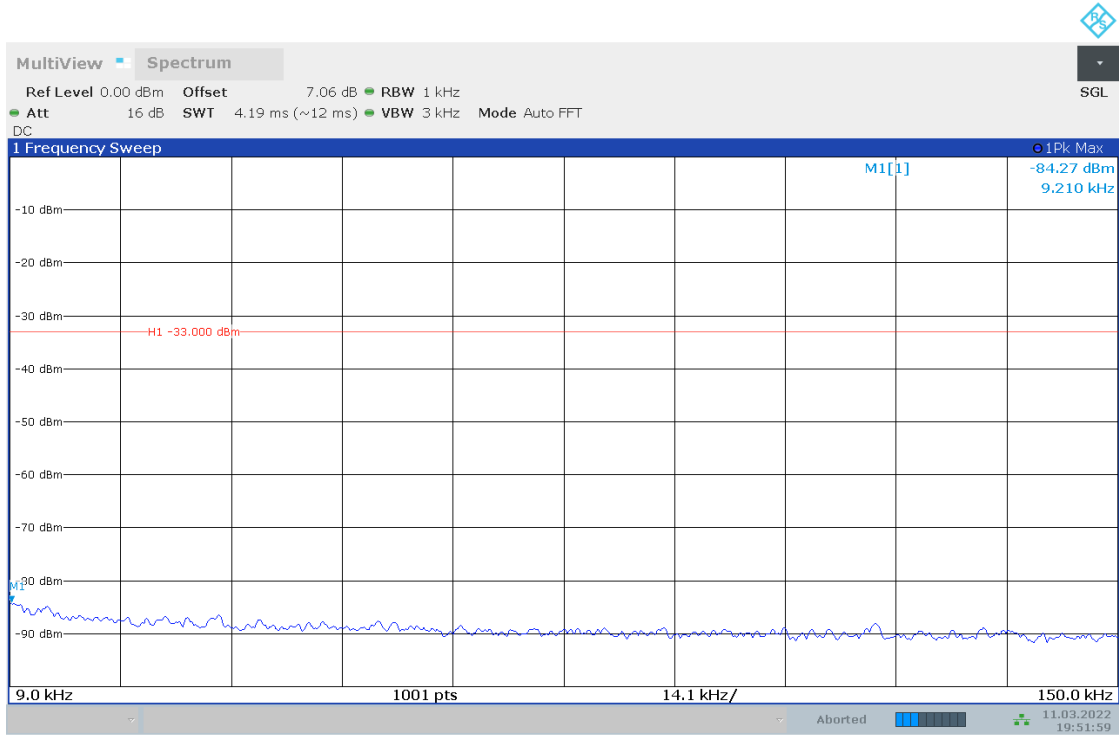


19:50:58 11.03.2022

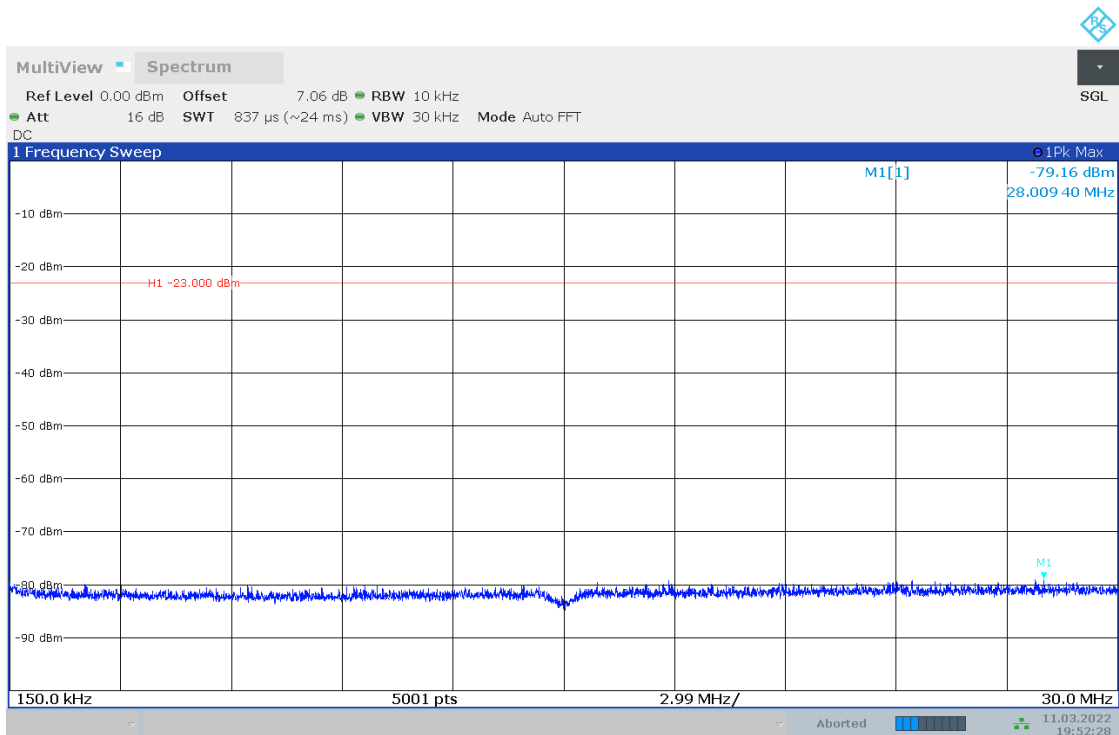


19:51:29 11.03.2022

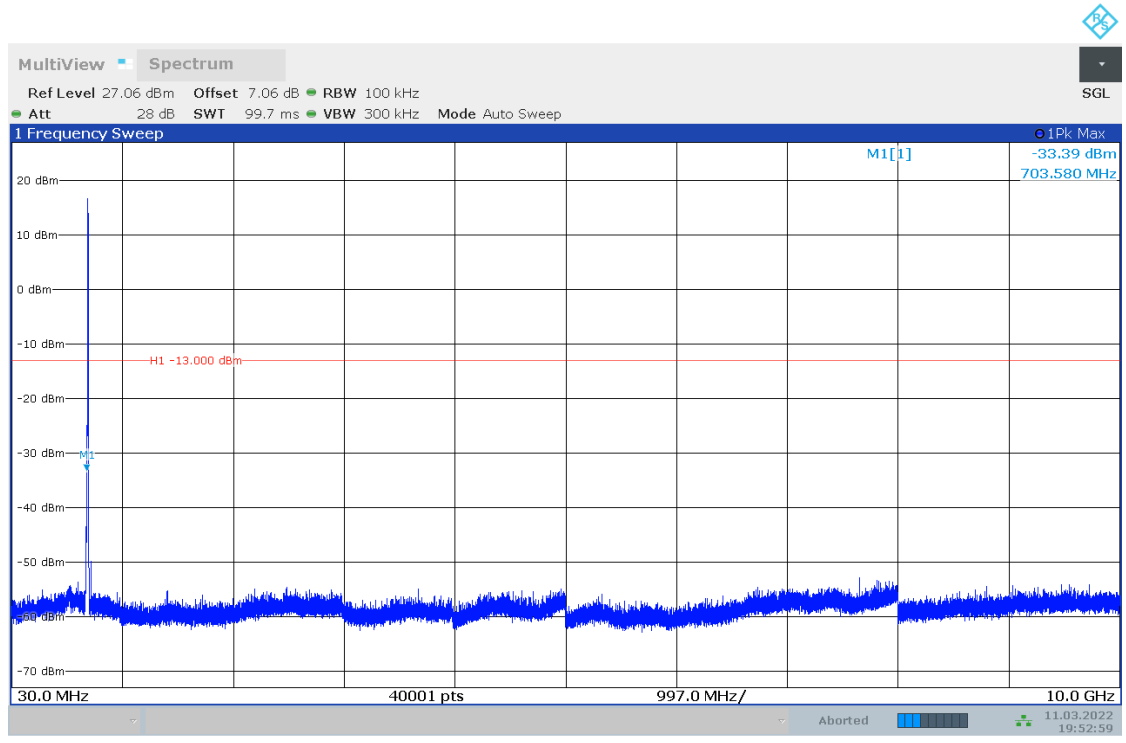
## 6.2.27 TM2\_5MHZ\_HCH\_RB25#0



19:52:00 11.03.2022



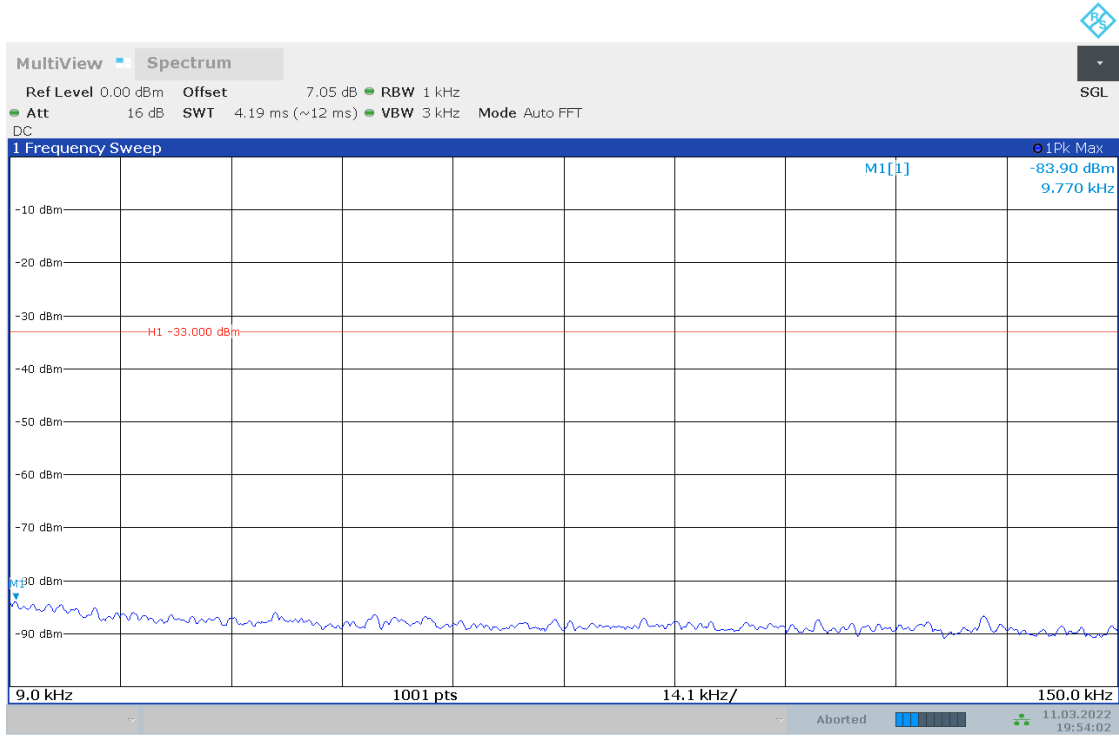
19:52:29 11.03.2022



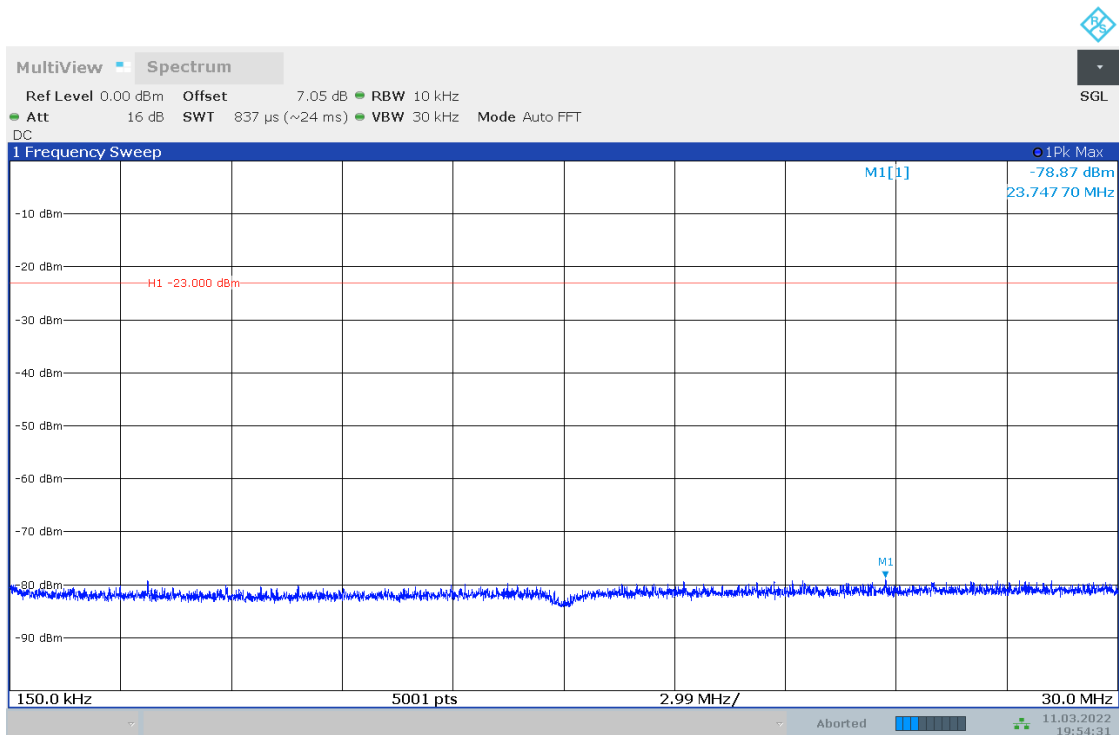
19:52:59 11.03.2022



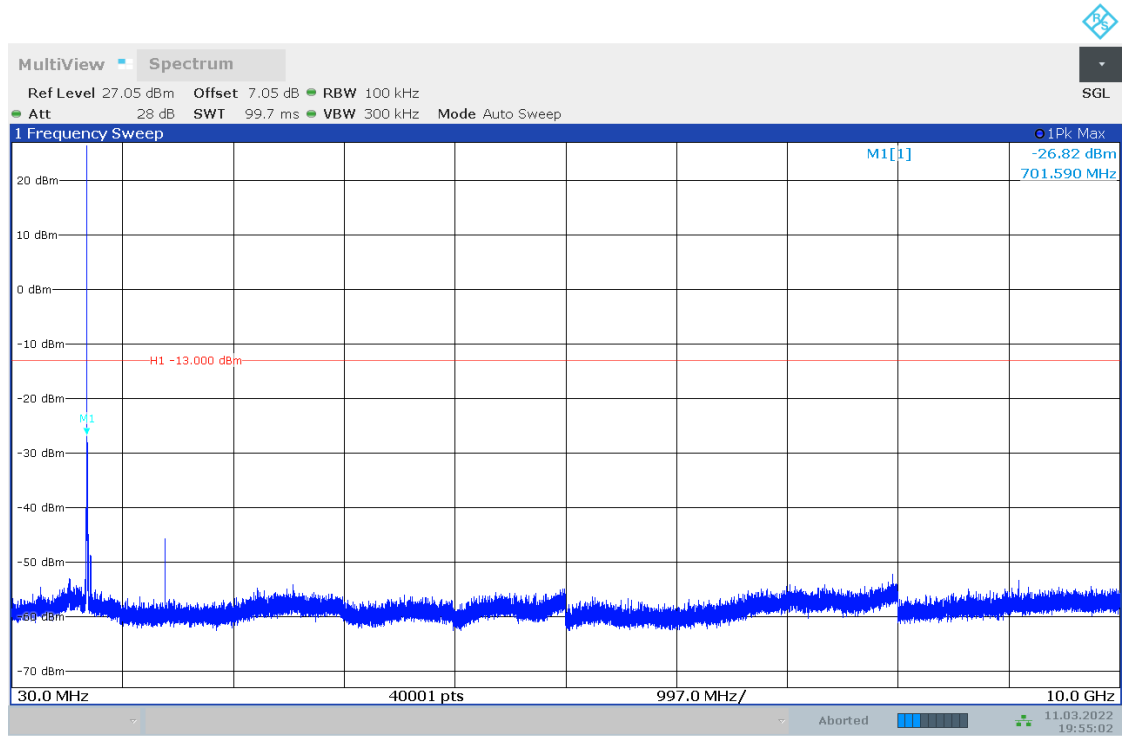
## 6.2.28 TM2\_10MHZ\_LCH\_RB1#0



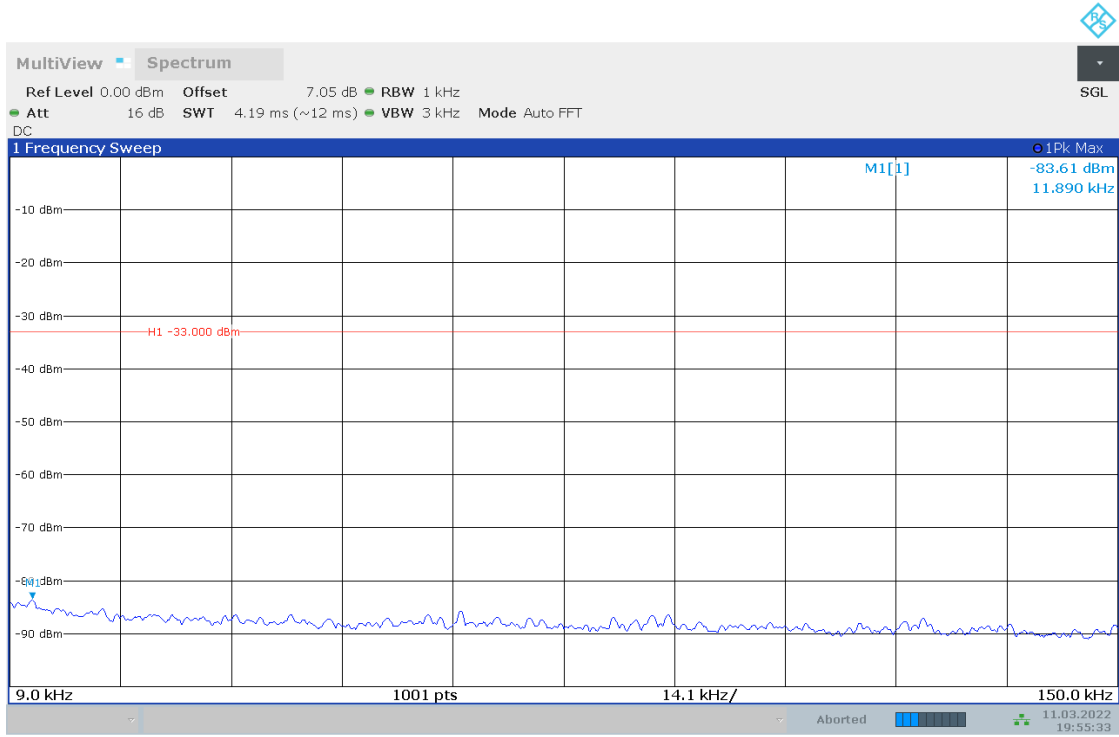
19:54:03 11.03.2022



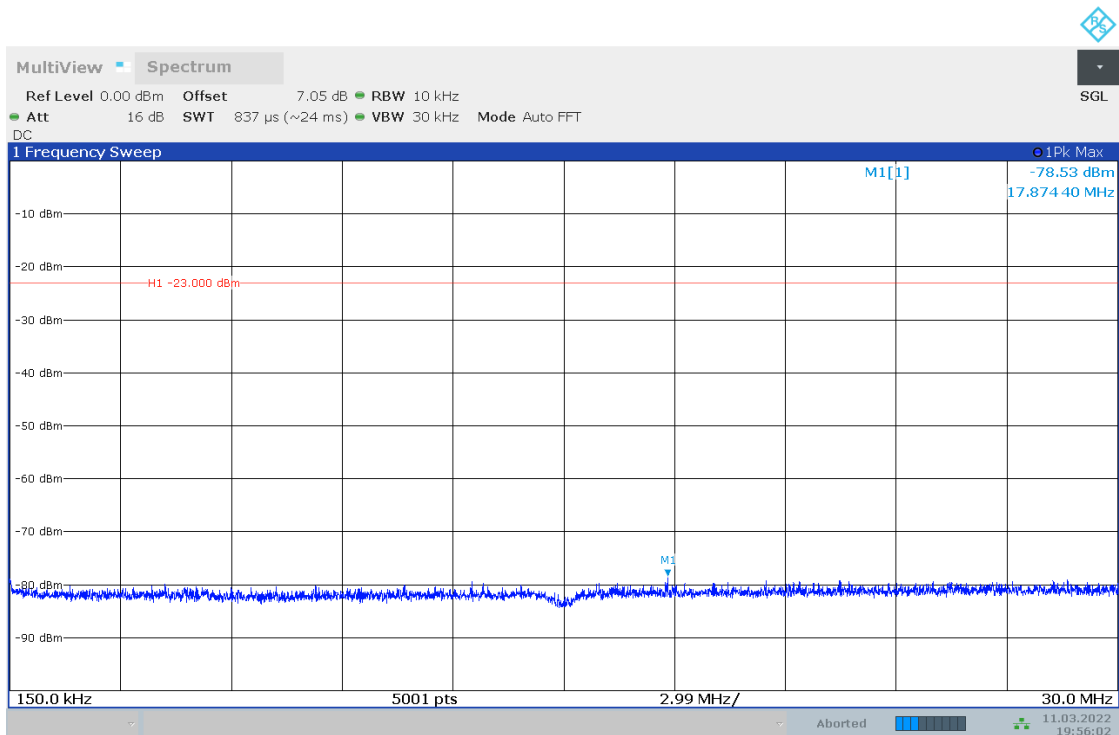
19:54:32 11.03.2022



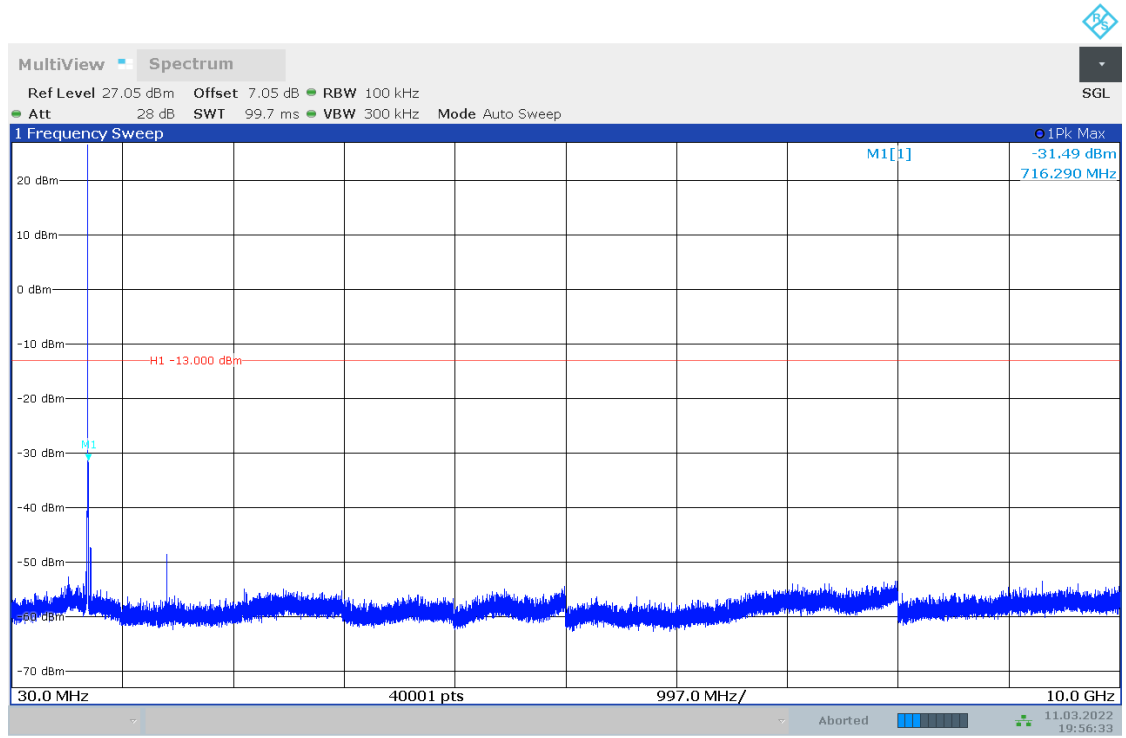
## 6.2.29 TM2\_10MHZ\_LCH\_RB1#49



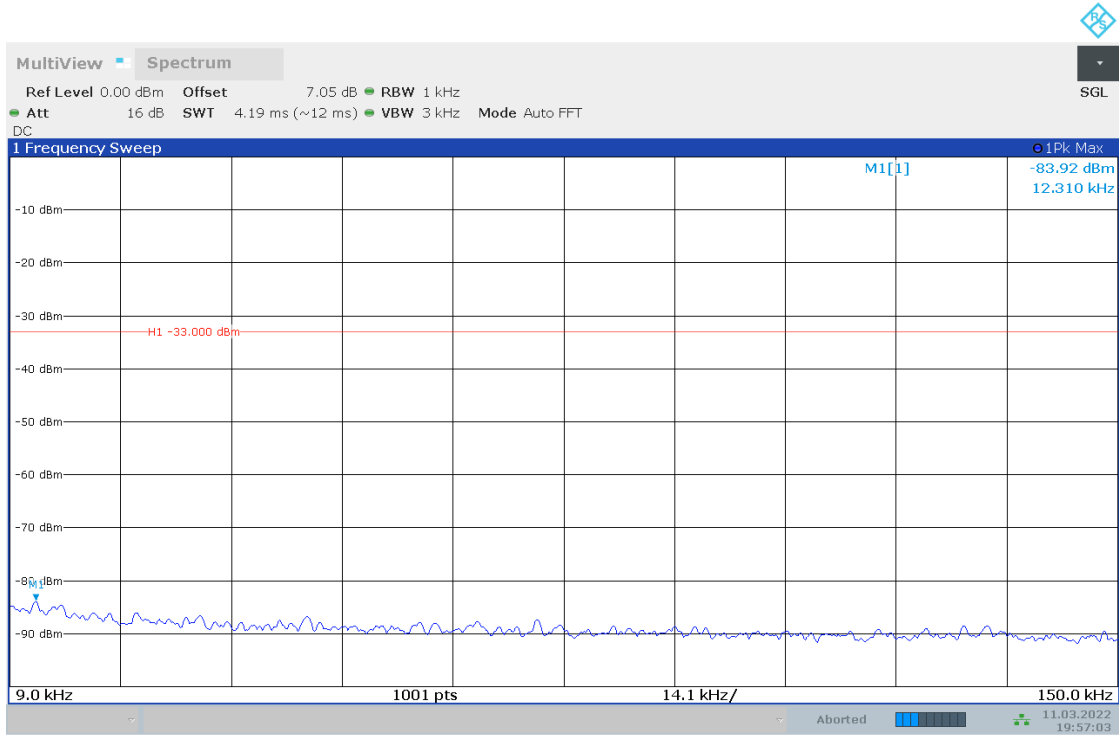
19:55:33 11.03.2022



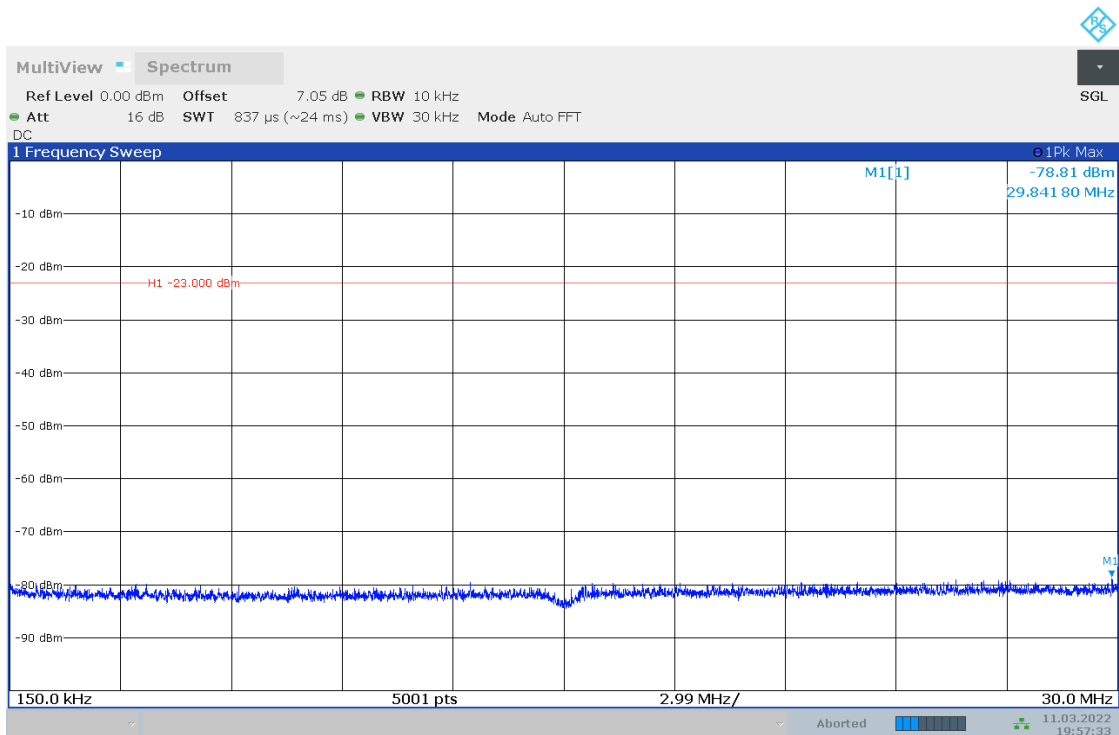
19:56:03 11.03.2022



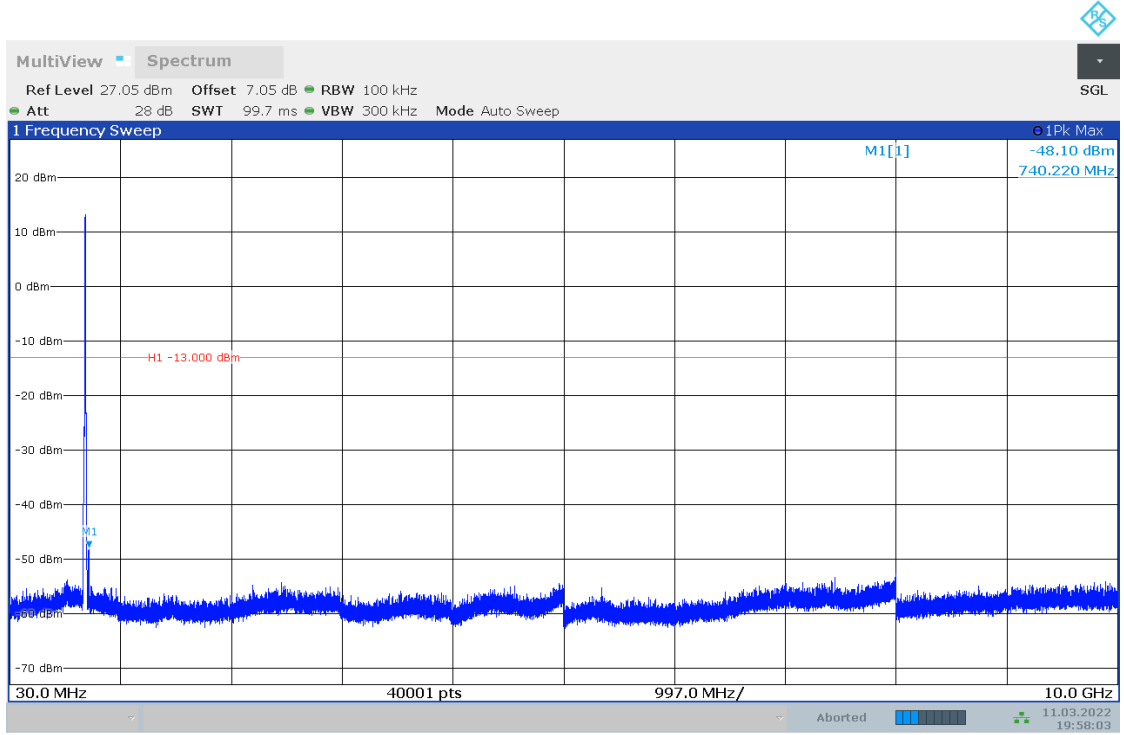
## 6.2.30 TM2\_10MHZ\_LCH\_RB50#0



19:57:04 11.03.2022

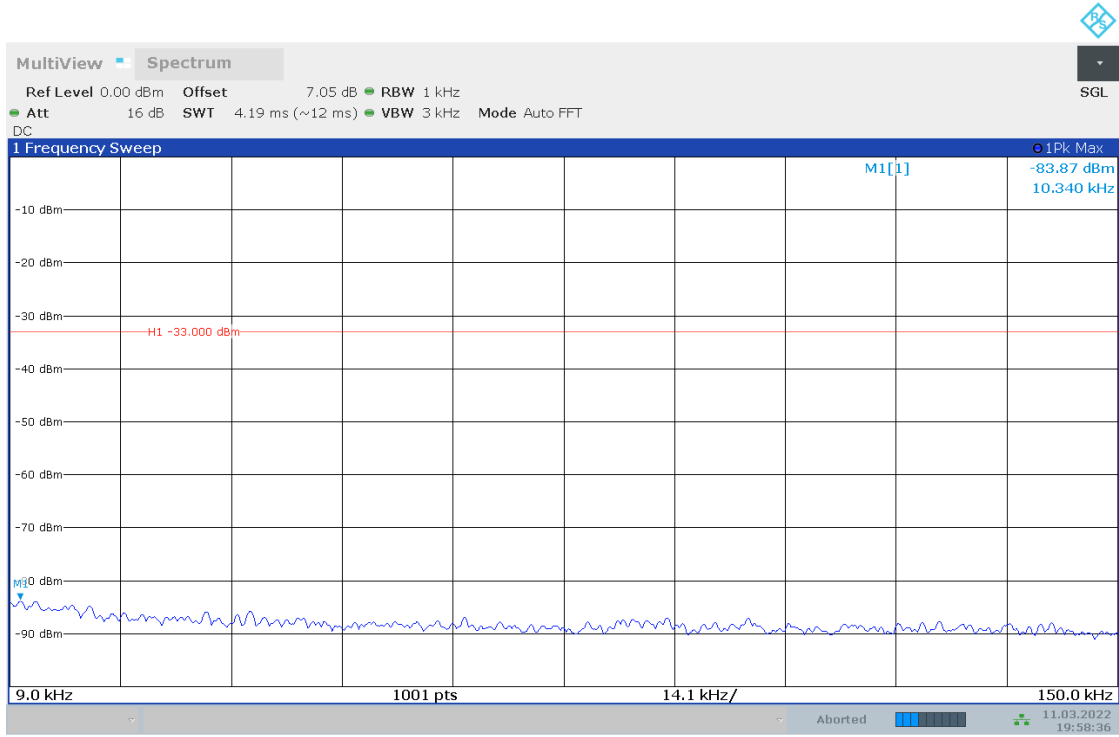


19:57:33 11.03.2022

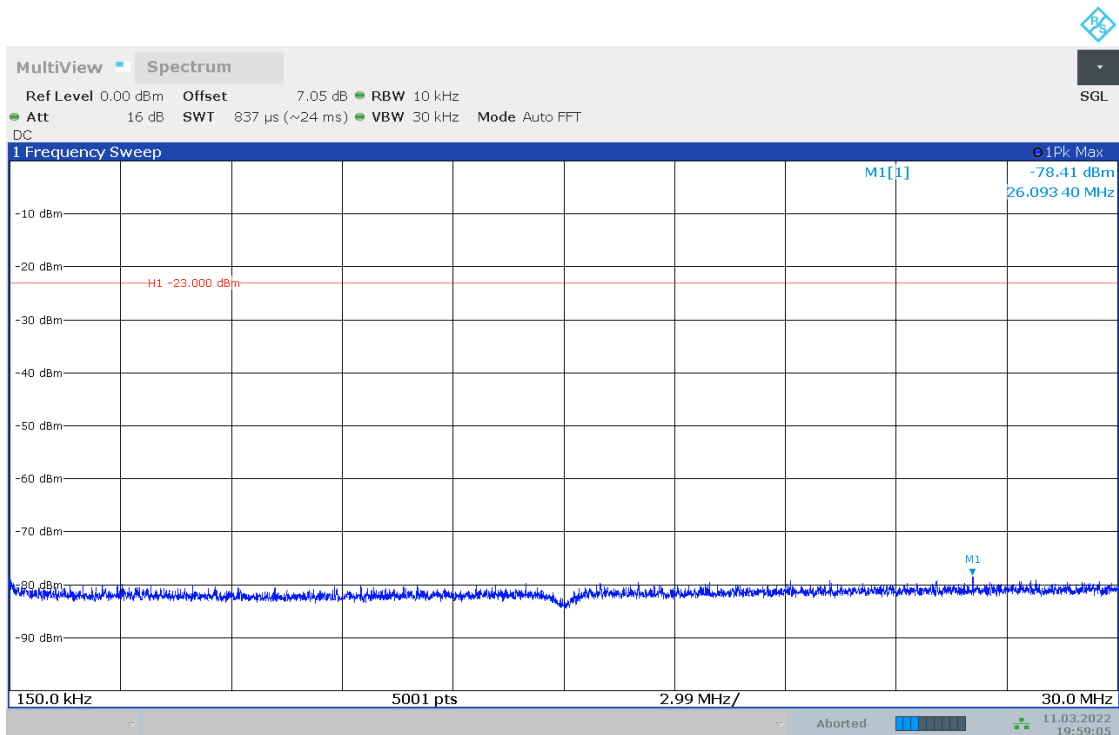


19:58:04 11.03.2022

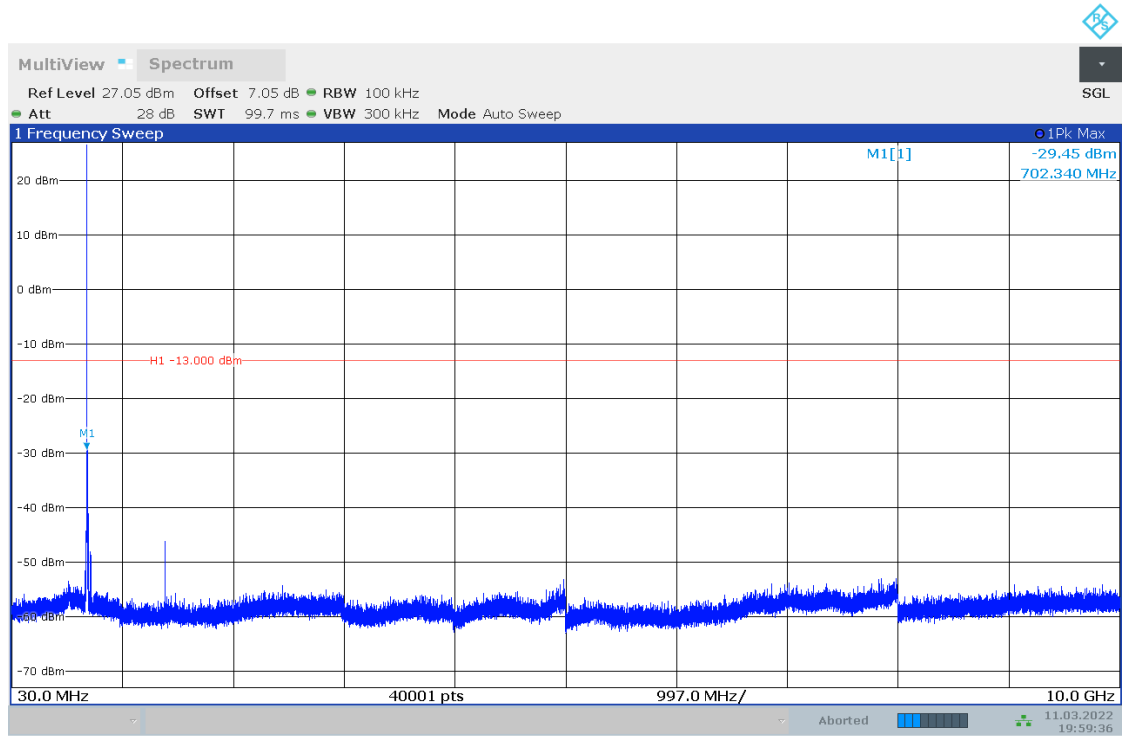
## 6.2.31 TM2\_10MHZ\_MCH\_RB1#0



19:58:37 11.03.2022



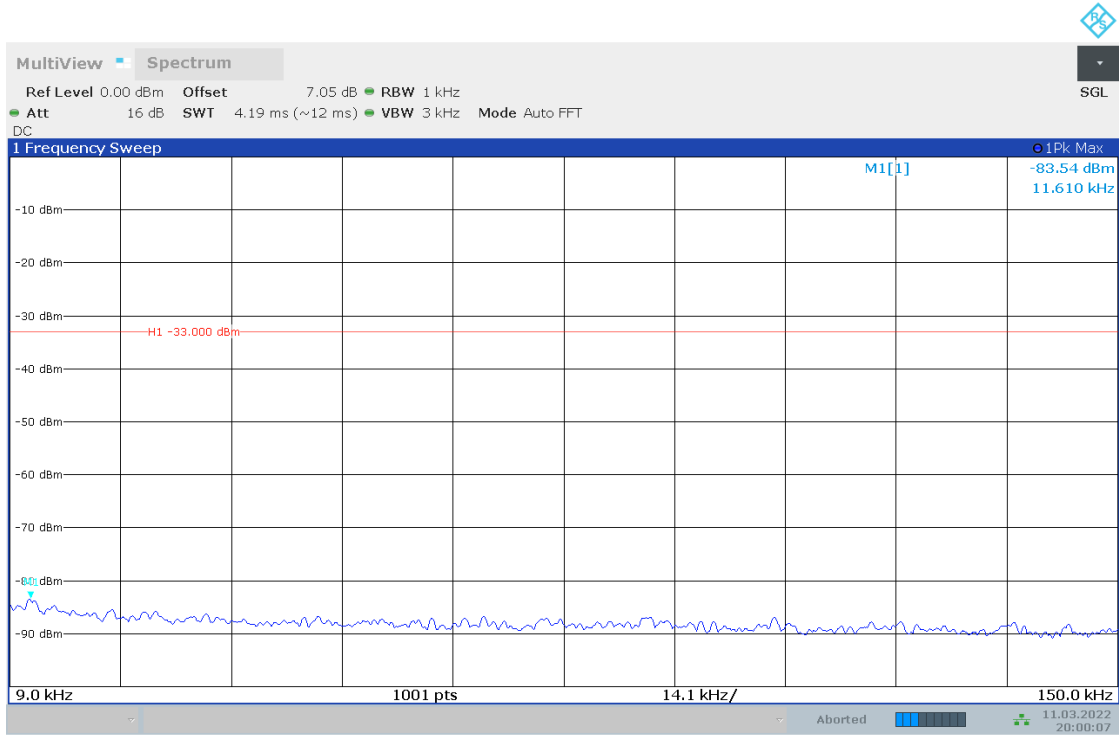
19:59:06 11.03.2022



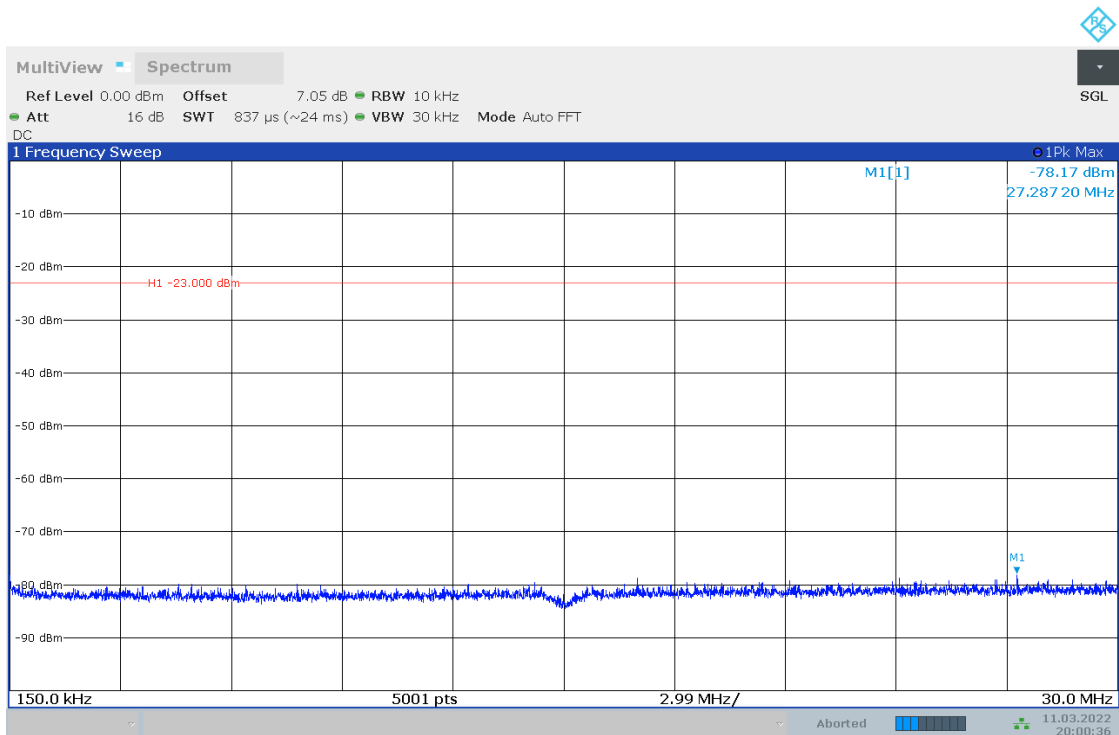
19:59:37 11.03.2022



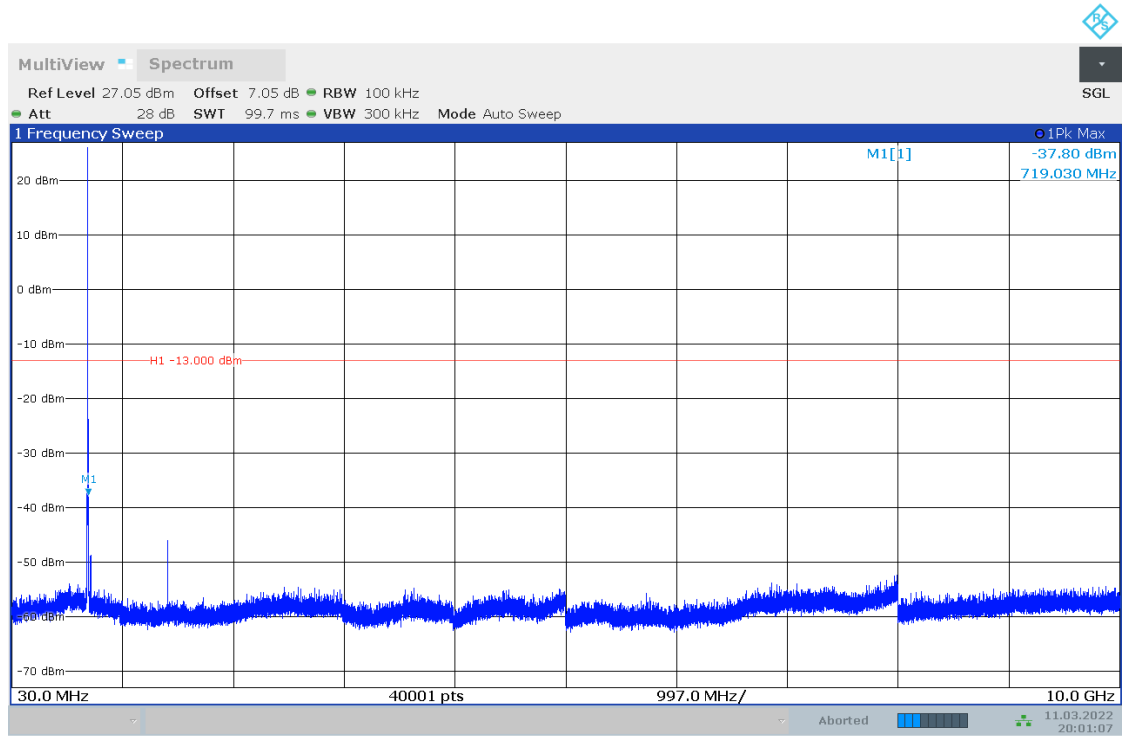
## 6.2.32 TM2\_10MHZ\_MCH\_RB1#49



20:00:08 11.03.2022

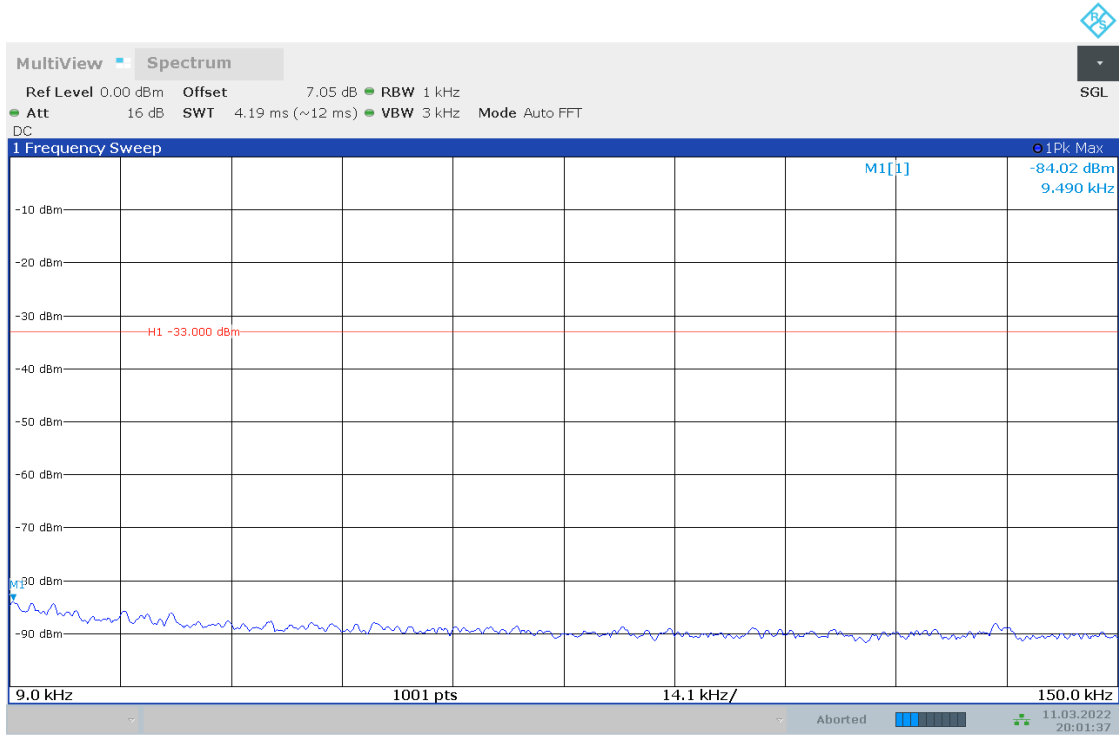


20:00:37 11.03.2022

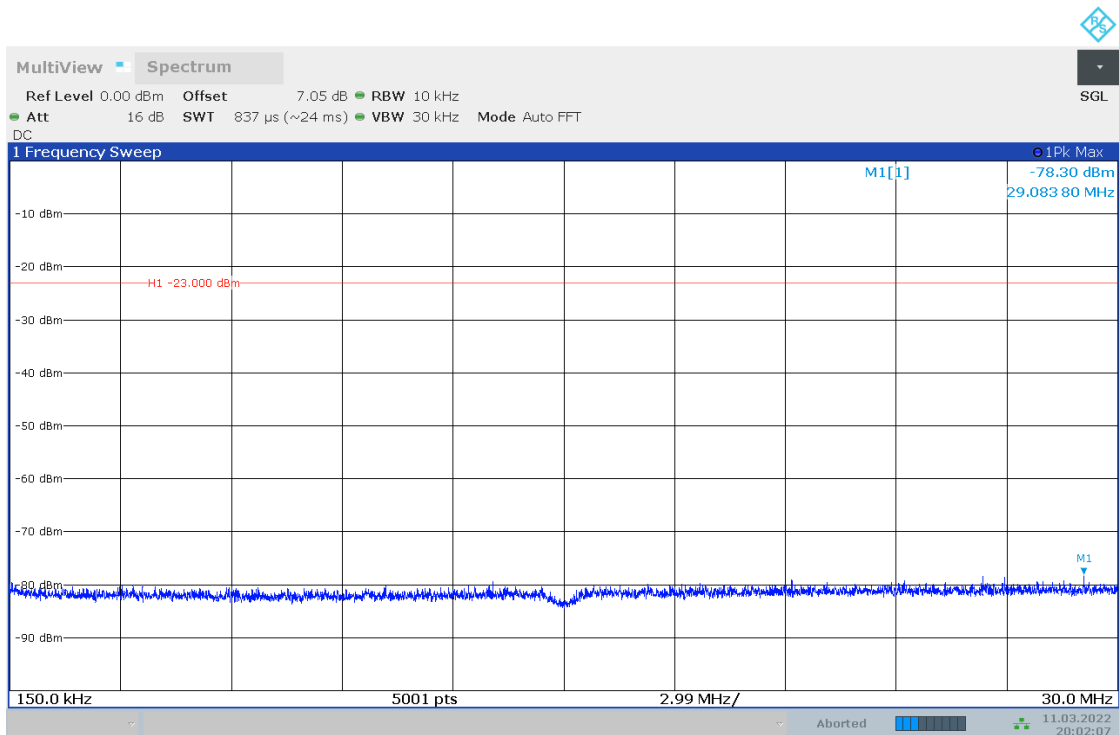


20:01:07 11.03.2022

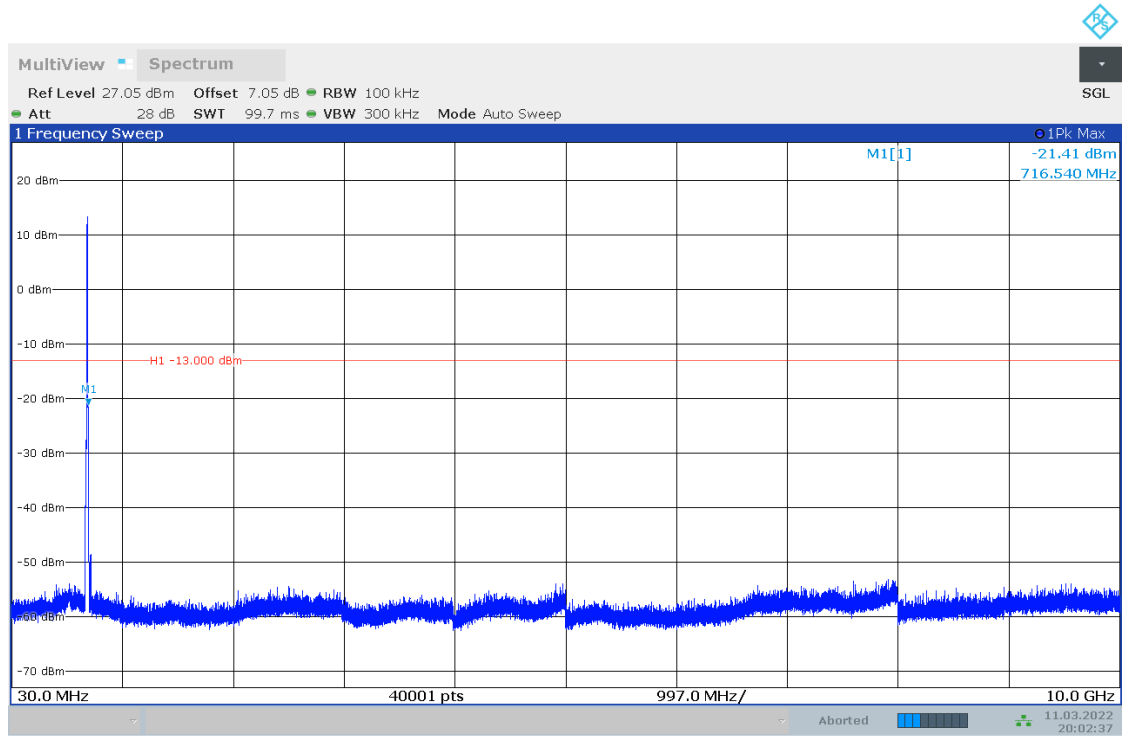
## 6.2.33 TM2\_10MHZ\_MCH\_RB50#0



20:01:38 11.03.2022

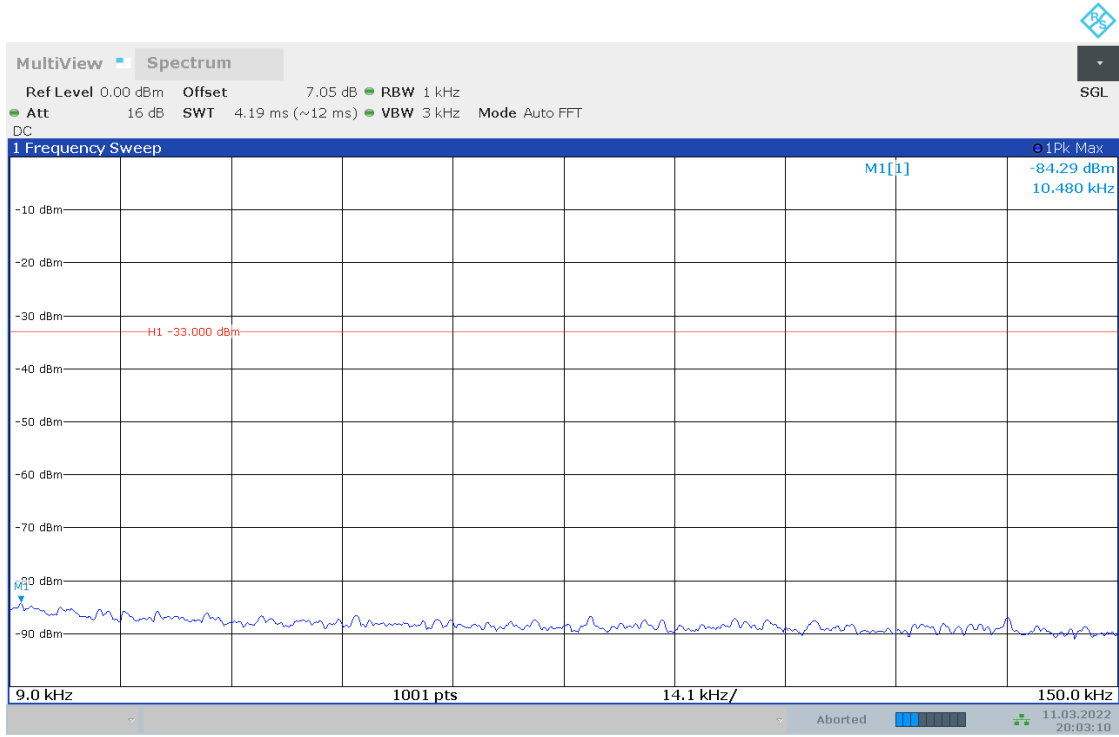


20:02:07 11.03.2022

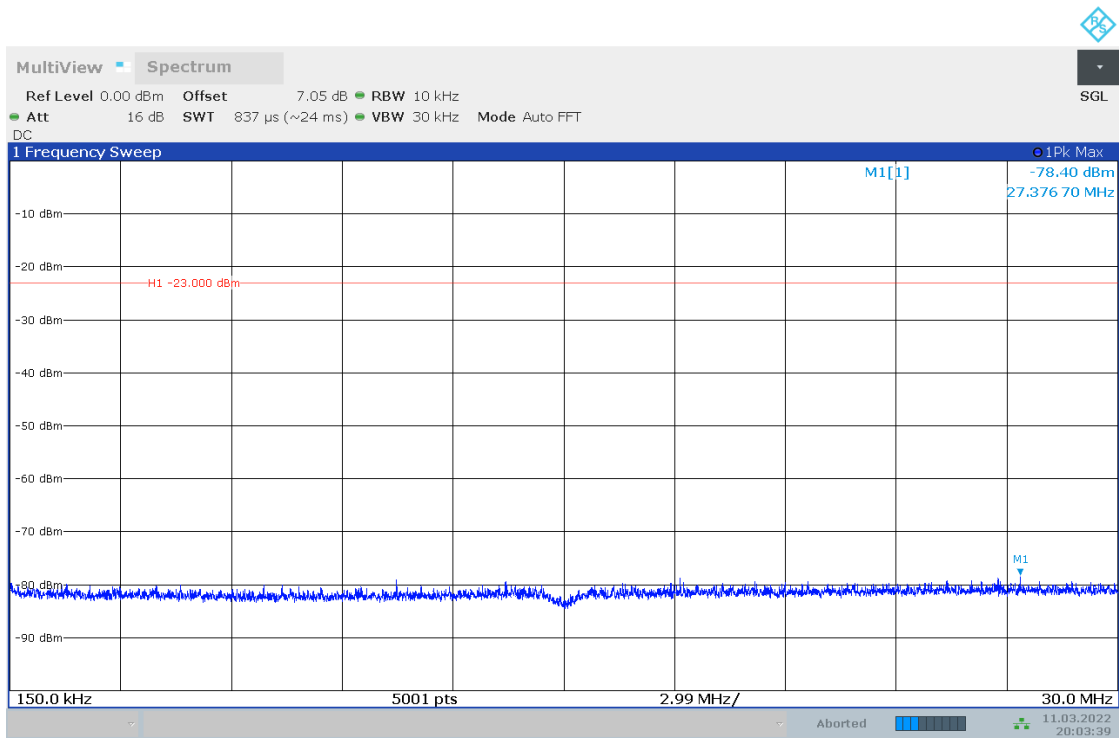


20:02:37 11.03.2022

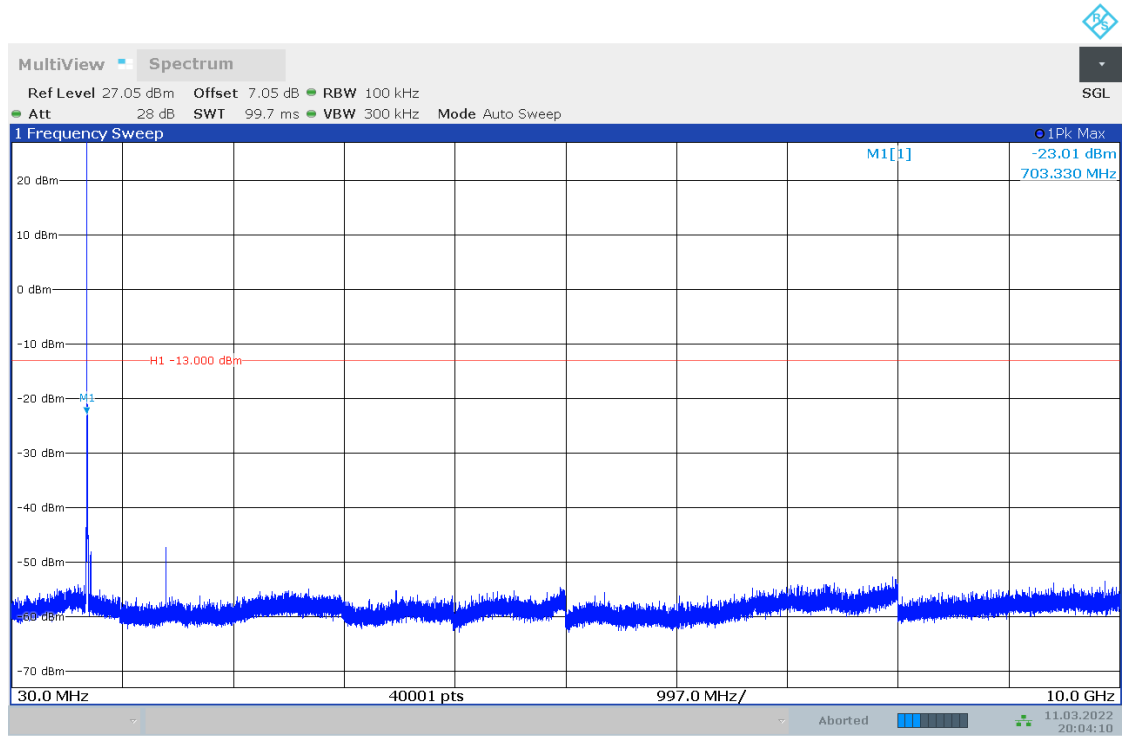
## 6.2.34 TM2\_10MHZ\_HCH\_RB1#0



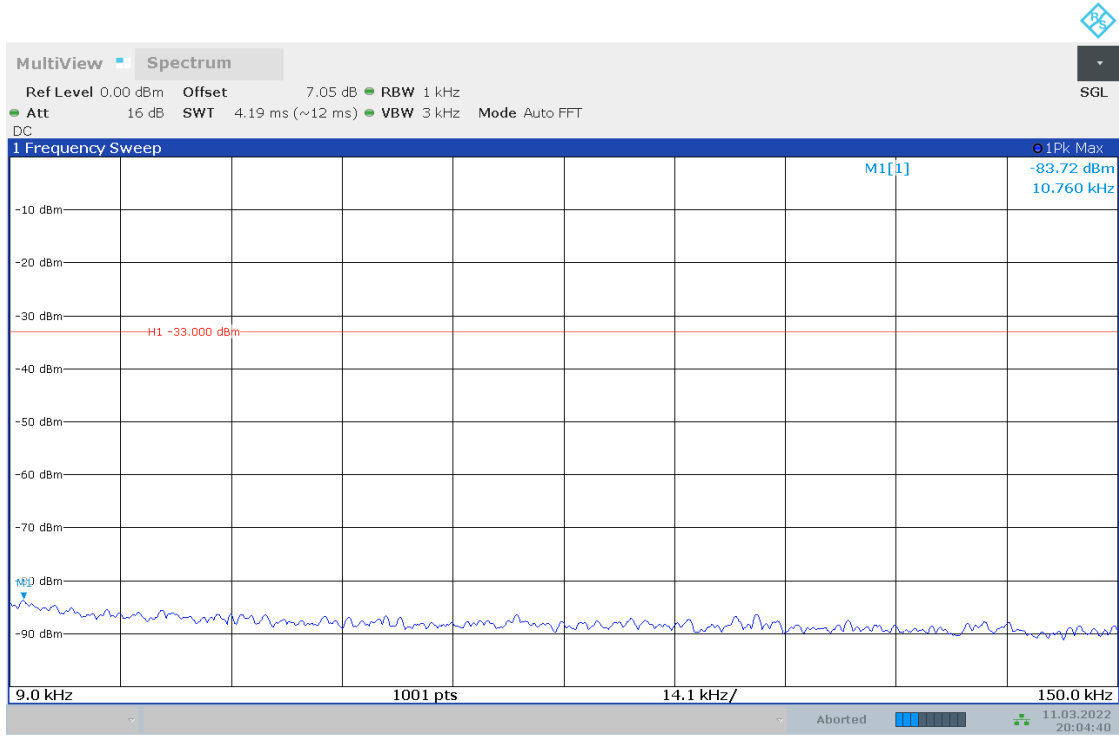
20:03:10 11.03.2022



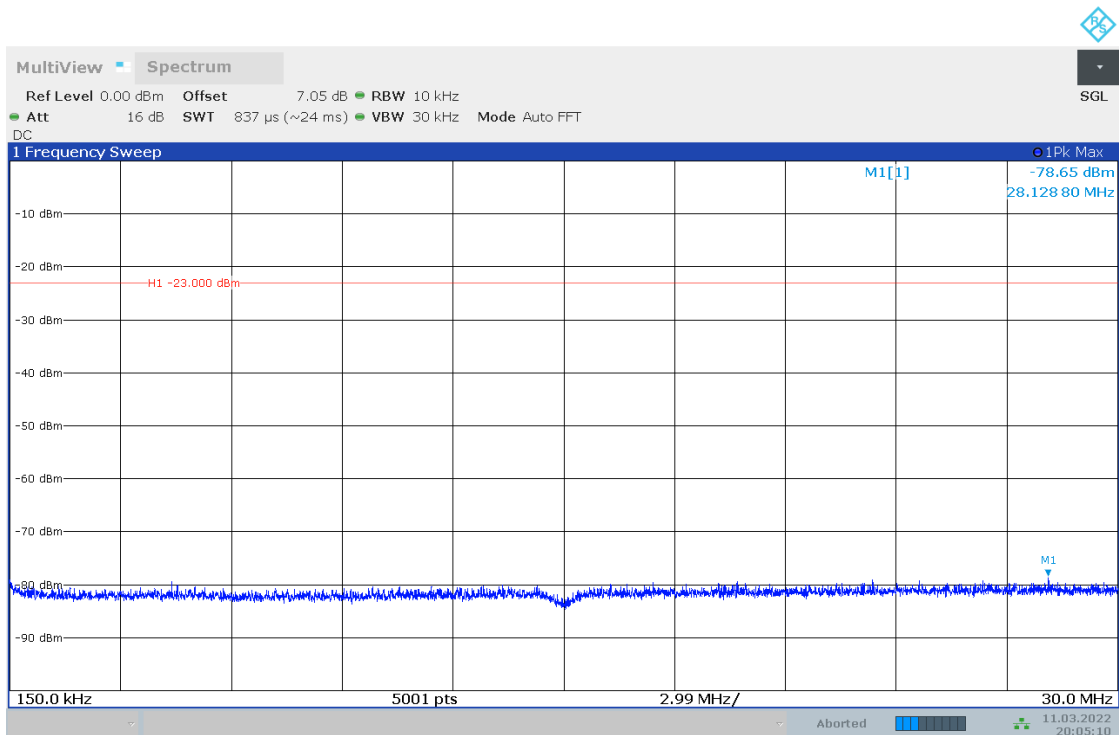
20:03:40 11.03.2022



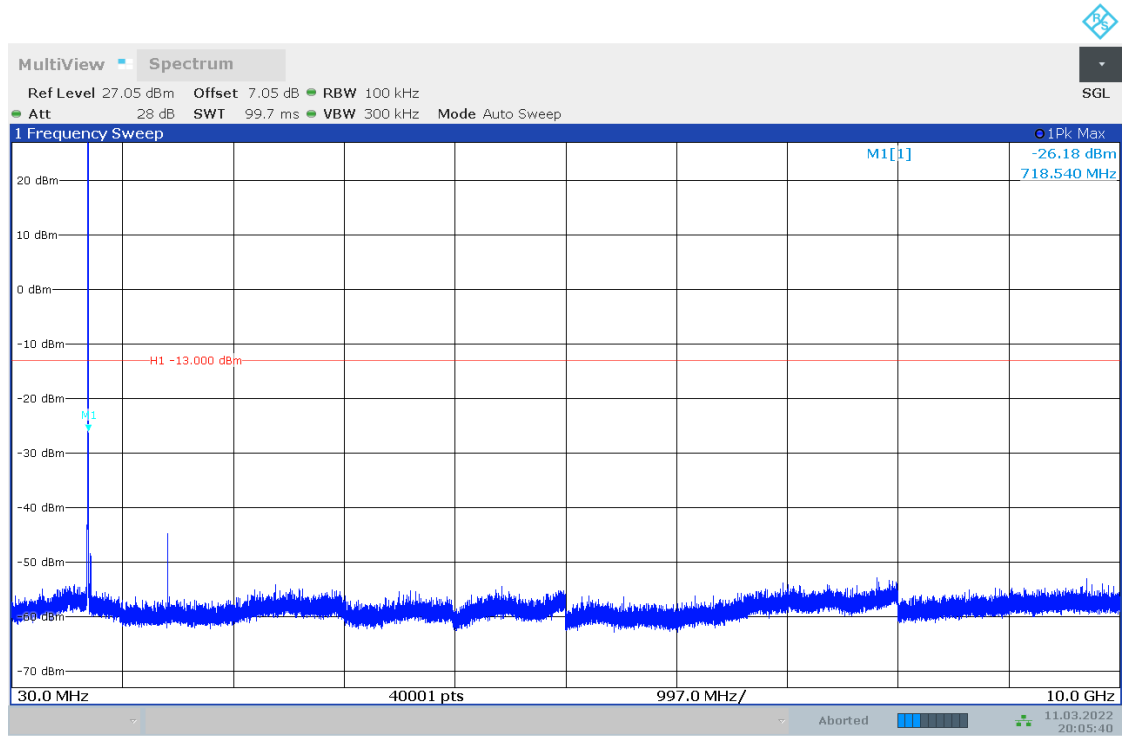
## 6.2.35 TM2\_10MHZ\_HCH\_RB1#49



20:04:41 11.03.2022



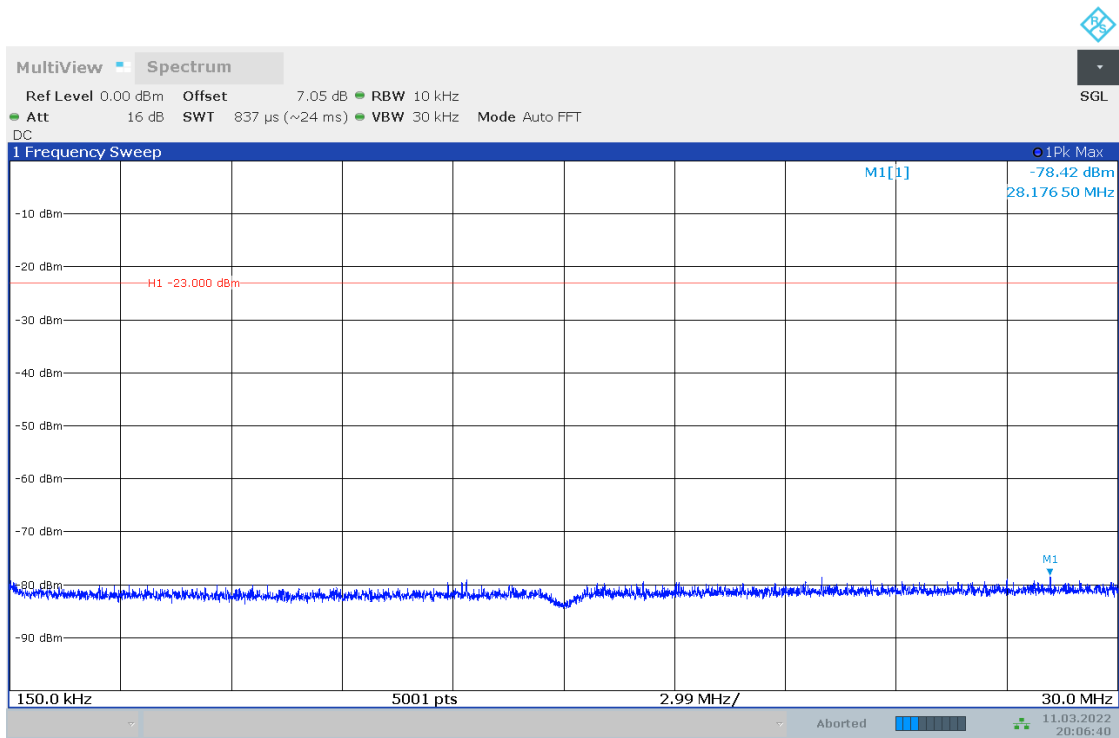
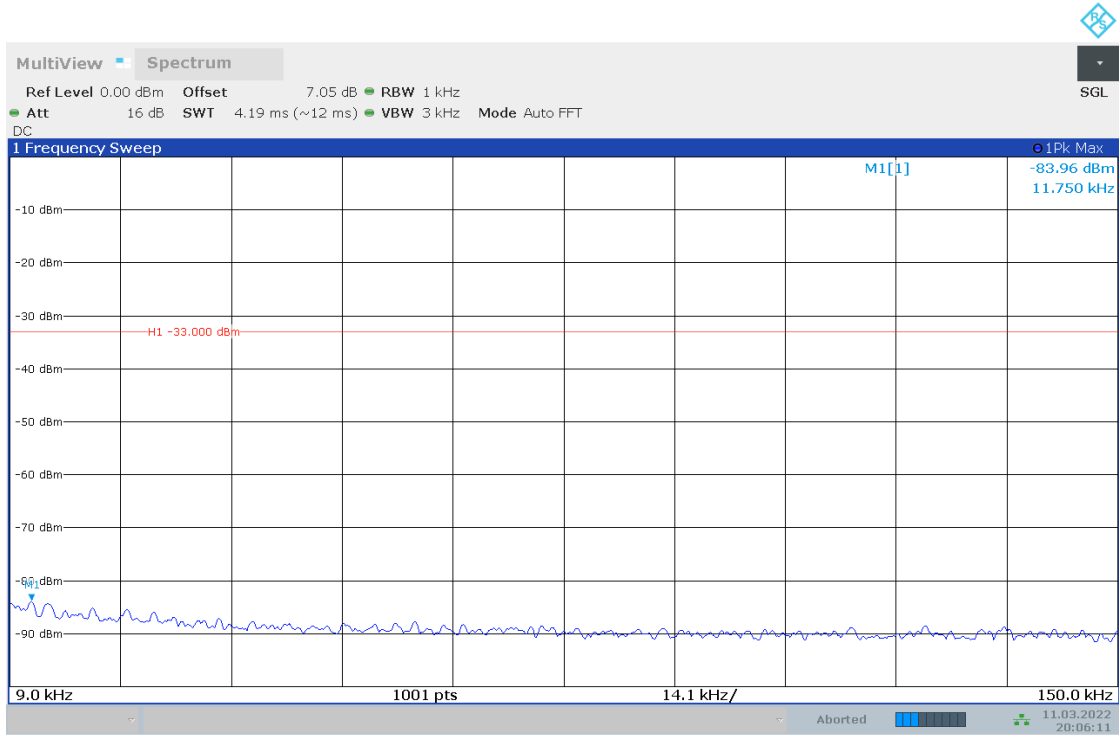
20:05:10 11.03.2022

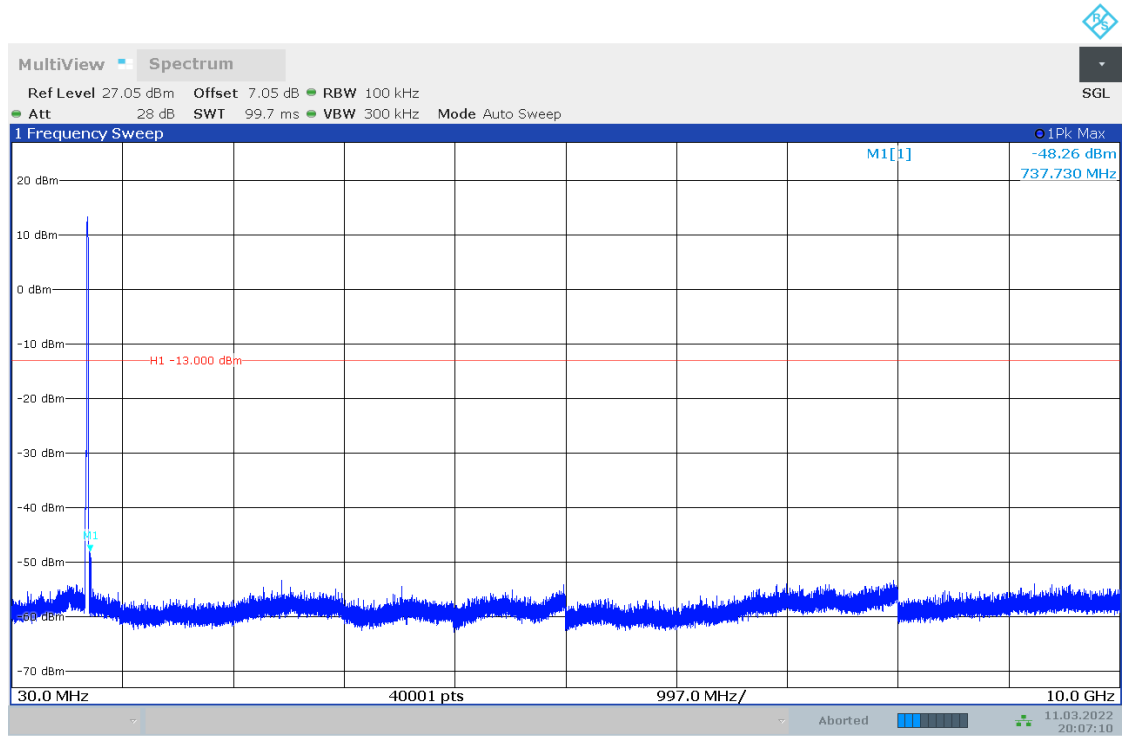


20:05:41 11.03.2022



## 6.2.36 TM2\_10MHZ\_HCH\_RB50#0





20:07:11 11.03.2022

## 7. APPENDIX G - FREQUENCY STABILITY

### 7.1 TEST RESULTS

#### 7.1.1 FREQUENCY ERROR VS. VOLTAGE

Frequency Error vs. Voltage								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	5	LCH	QPSK	TN	VH	4.25	0.01	PASS
			QPSK	TN	VN	0.18	0	PASS
			QPSK	TN	VL	-0.86	0	PASS
		MCH	QPSK	TN	VH	6.47	0.01	PASS
			QPSK	TN	VN	0.72	0	PASS
			QPSK	TN	VL	3.50	0	PASS
		HCH	QPSK	TN	VH	-1.55	0	PASS
			QPSK	TN	VN	0.91	0	PASS
			QPSK	TN	VL	2.44	0	PASS
	10	LCH	QPSK	TN	VH	48.43	0.07	PASS
			QPSK	TN	VN	59.04	0.08	PASS
			QPSK	TN	VL	17.15	0.02	PASS
		MCH	QPSK	TN	VH	2.02	0	PASS
			QPSK	TN	VN	-2.58	0	PASS
			QPSK	TN	VL	-9.13	-0.01	PASS
		HCH	QPSK	TN	VH	-2.42	0	PASS
			QPSK	TN	VN	-63.49	-0.09	PASS
			QPSK	TN	VL	-71.82	-0.1	PASS
TM2	5	LCH	16QAM	TN	VH	1.53	0	PASS
			16QAM	TN	VN	3.30	0	PASS
			16QAM	TN	VL	1.95	0	PASS
		MCH	16QAM	TN	VH	5.1	0.01	PASS
			16QAM	TN	VN	2.60	0	PASS
			16QAM	TN	VL	0.45	0	PASS
		HCH	16QAM	TN	VH	-3.36	0	PASS
			16QAM	TN	VN	1.10	0	PASS
			16QAM	TN	VL	-0.54	0	PASS
	10	LCH	16QAM	TN	VH	6.35	0.01	PASS
			16QAM	TN	VN	14.67	0.02	PASS
			16QAM	TN	VL	-8.70	-0.01	PASS
		MCH	16QAM	TN	VH	-7.61	-0.01	PASS
			16QAM	TN	VN	3.53	0	PASS
			16QAM	TN	VL	2.79	0	PASS
		HCH	16QAM	TN	VH	-12.94	-0.02	PASS
			16QAM	TN	VN	17.80	0.03	PASS
			16QAM	TN	VL	-3.28	0	PASS

**7.1.2 FREQUENCY ERROR VS. TEMPERATURE**

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	5	LCH	QPSK	VN	-30	-0.89	0	PASS
			QPSK	VN	-20	4.08	0.01	PASS
			QPSK	VN	-10	5.71	0.01	PASS
			QPSK	VN	0	3.83	0.01	PASS
			QPSK	VN	10	2.00	0	PASS
			QPSK	VN	20	1.77	0	PASS
			QPSK	VN	30	4.51	0.01	PASS
			QPSK	VN	40	6.88	0.01	PASS
		MCH	QPSK	VN	50	5.56	0.01	PASS
			QPSK	VN	-30	4.77	0.01	PASS
			QPSK	VN	-20	-0.11	0	PASS
			QPSK	VN	-10	1.30	0	PASS
			QPSK	VN	0	-6.91	-0.01	PASS
			QPSK	VN	10	1.82	0	PASS
			QPSK	VN	20	3.18	0	PASS
			QPSK	VN	30	3.52	0	PASS
		HCH	QPSK	VN	40	-1.00	0	PASS
			QPSK	VN	50	-0.82	0	PASS
			QPSK	VN	-30	-0.99	0	PASS
			QPSK	VN	-20	10.77	0.02	PASS
			QPSK	VN	-10	-2.67	0	PASS
			QPSK	VN	0	-0.86	0	PASS
			QPSK	VN	10	3.46	0	PASS
			QPSK	VN	20	2.13	0	PASS
			QPSK	VN	30	-4.28	-0.01	PASS
			QPSK	VN	40	0.08	0	PASS
			QPSK	VN	50	6.81	0.01	PASS

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	10	LCH	QPSK	VN	-30	2.05	0	PASS
			QPSK	VN	-20	-85.20	-0.12	PASS
			QPSK	VN	-10	21.18	0.03	PASS
			QPSK	VN	0	23.86	0.03	PASS
			QPSK	VN	10	6.87	0.01	PASS
			QPSK	VN	20	22.10	0.03	PASS
			QPSK	VN	30	23.53	0.03	PASS
			QPSK	VN	40	19.68	0.03	PASS
		MCH	QPSK	VN	50	26.00	0.04	PASS
			QPSK	VN	-30	6.95	0.01	PASS
			QPSK	VN	-20	3.51	0	PASS
			QPSK	VN	-10	5.85	0.01	PASS
			QPSK	VN	0	5.45	0.01	PASS
			QPSK	VN	10	2.00	0	PASS
			QPSK	VN	20	-11.2	-0.02	PASS
			QPSK	VN	30	3.25	0	PASS
		HCH	QPSK	VN	40	-23.51	-0.03	PASS
			QPSK	VN	50	-6.59	-0.01	PASS
			QPSK	VN	-30	1.92	0	PASS
			QPSK	VN	-20	4.56	0.01	PASS
			QPSK	VN	-10	0.76	0	PASS
			QPSK	VN	0	-0.71	0	PASS
			QPSK	VN	10	-3.83	-0.01	PASS
			QPSK	VN	20	-3.95	-0.01	PASS
			QPSK	VN	30	2.26	0	PASS
		QPSK	VN	40	0.27	0	PASS	
		QPSK	VN	50	-4.99	-0.01	PASS	

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	5	LCH	16QAM	VN	-30	3.67	0.01	PASS
			16QAM	VN	-20	3.27	0	PASS
			16QAM	VN	-10	13.67	0.02	PASS
			16QAM	VN	0	0.02	0	PASS
			16QAM	VN	10	-0.14	0	PASS
			16QAM	VN	20	-0.31	0	PASS
			16QAM	VN	30	3.09	0	PASS
			16QAM	VN	40	1.28	0	PASS
		16QAM	VN	50	-5.41	-0.01	PASS	
		16QAM	VN	-30	-2.36	0	PASS	
		16QAM	VN	-20	3.96	0.01	PASS	
		16QAM	VN	-10	2.10	0	PASS	
		16QAM	VN	0	0.01	0	PASS	
		16QAM	VN	10	2.73	0	PASS	
		16QAM	VN	20	6.20	0.01	PASS	
		16QAM	VN	30	-3.70	-0.01	PASS	
		16QAM	VN	40	4.01	0.01	PASS	
		16QAM	VN	50	6.29	0.01	PASS	
		16QAM	VN	-30	4.08	0.01	PASS	
		16QAM	VN	-20	3.38	0	PASS	
		16QAM	VN	-10	2.44	0	PASS	
		16QAM	VN	0	5.72	0.01	PASS	
		16QAM	VN	10	4.47	0.01	PASS	
		16QAM	VN	20	5.48	0.01	PASS	
		16QAM	VN	30	4.16	0.01	PASS	
		16QAM	VN	40	-7.75	-0.01	PASS	
		16QAM	VN	50	-1.21	0	PASS	

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	10	LCH	16QAM	VN	-30	1.09	0	PASS
			16QAM	VN	-20	3.94	0.01	PASS
			16QAM	VN	-10	19.28	0.03	PASS
			16QAM	VN	0	-11.70	-0.02	PASS
			16QAM	VN	10	0.26	0	PASS
			16QAM	VN	20	-8.76	-0.01	PASS
			16QAM	VN	30	29.47	0.04	PASS
			16QAM	VN	40	-2.36	0	PASS
		MCH	16QAM	VN	50	4.33	0.01	PASS
			16QAM	VN	-30	-15.84	-0.02	PASS
			16QAM	VN	-20	-10.68	-0.02	PASS
			16QAM	VN	-10	12.66	0.02	PASS
			16QAM	VN	0	0.10	0	PASS
			16QAM	VN	10	-7.75	-0.01	PASS
			16QAM	VN	20	12.33	0.02	PASS
			16QAM	VN	30	-5.50	-0.01	PASS
		HCH	16QAM	VN	40	-1.82	0	PASS
			16QAM	VN	50	-10.87	-0.02	PASS
			16QAM	VN	-30	16.63	0.02	PASS
			16QAM	VN	-20	4.03	0.01	PASS
			16QAM	VN	-10	-4.74	-0.01	PASS
			16QAM	VN	0	19.74	0.03	PASS
			16QAM	VN	10	3.30	0	PASS
			16QAM	VN	20	-16.32	-0.02	PASS
		16QAM	VN	30	-5.46	-0.01	PASS	
		16QAM	VN	40	-7.47	-0.01	PASS	
		16QAM	VN	50	-8.25	-0.01	PASS	

End of Test Report