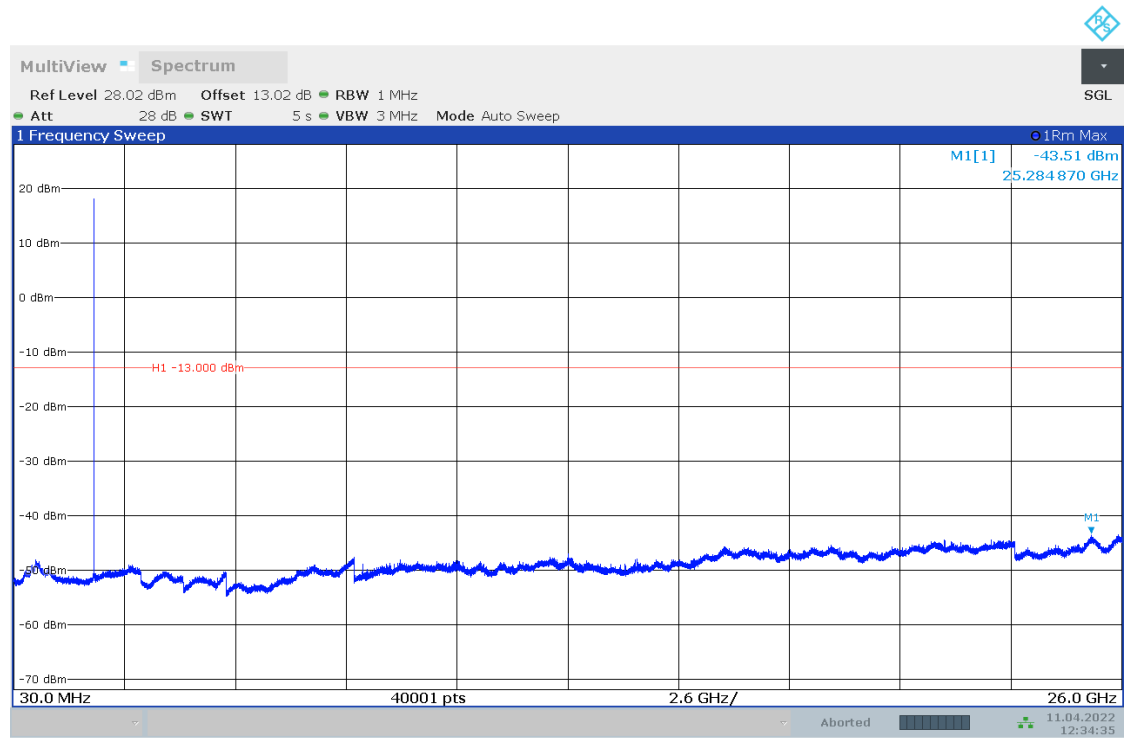
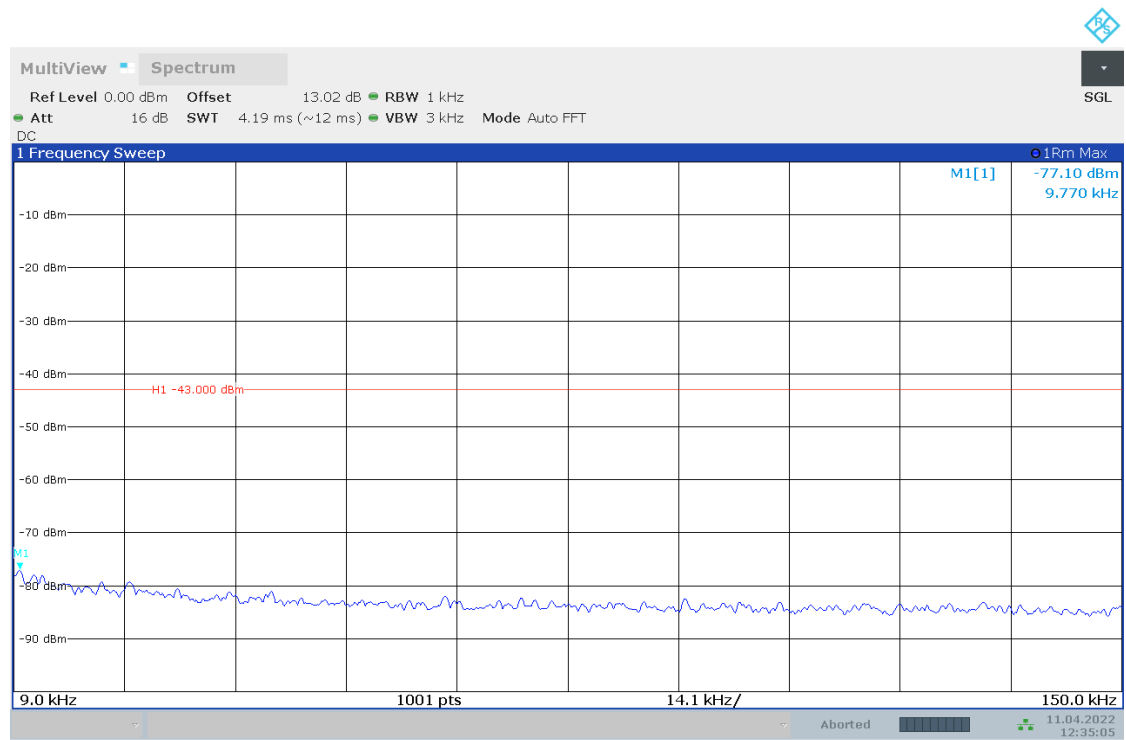


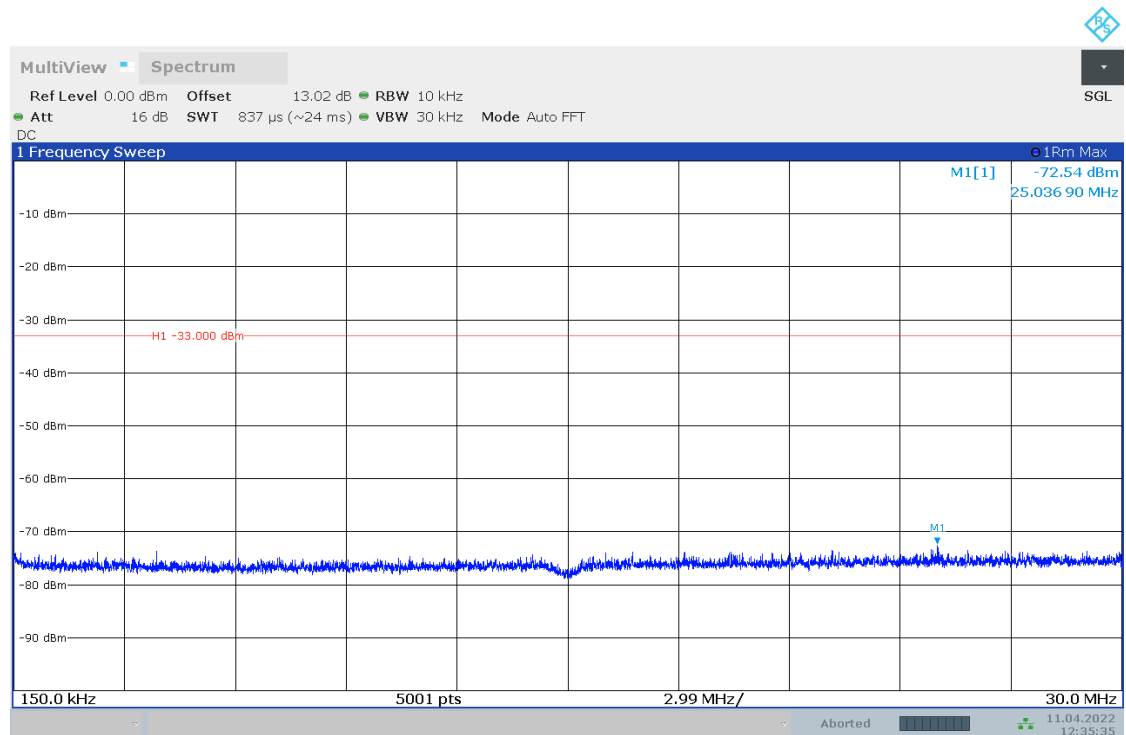


12:34:35 11.04.2022

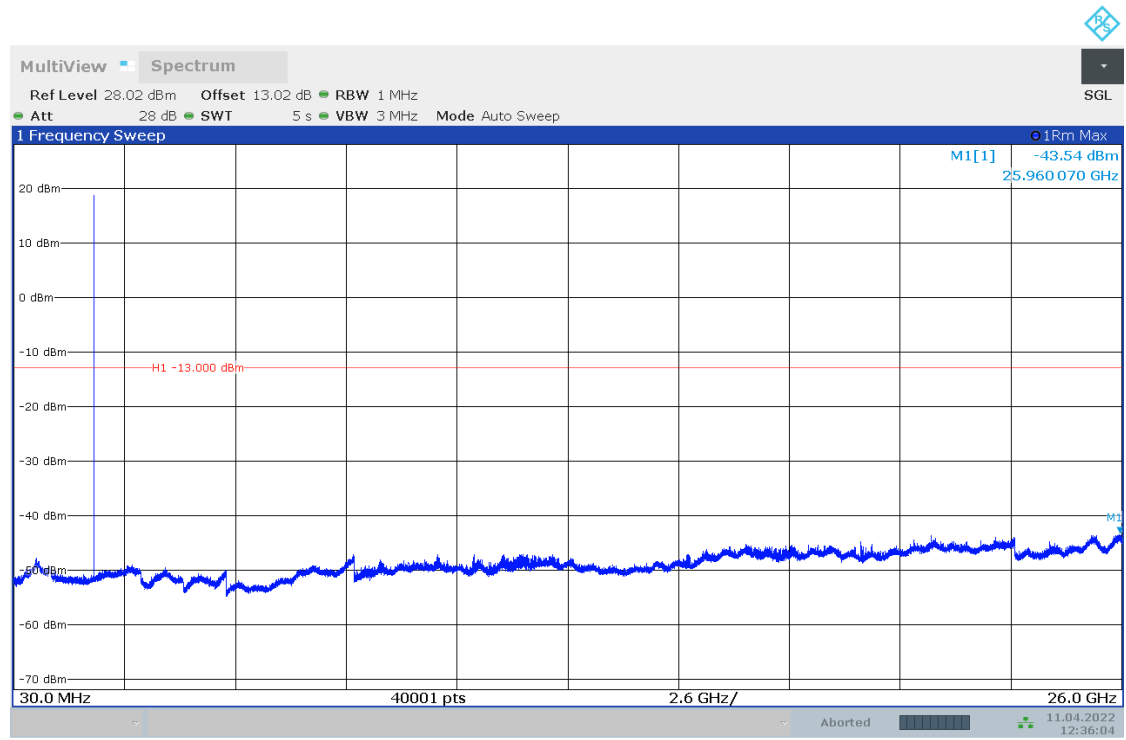
6.2.35 TM2_1.4MHZ_HCH_RB1#0



12:35:06 11.04.2022

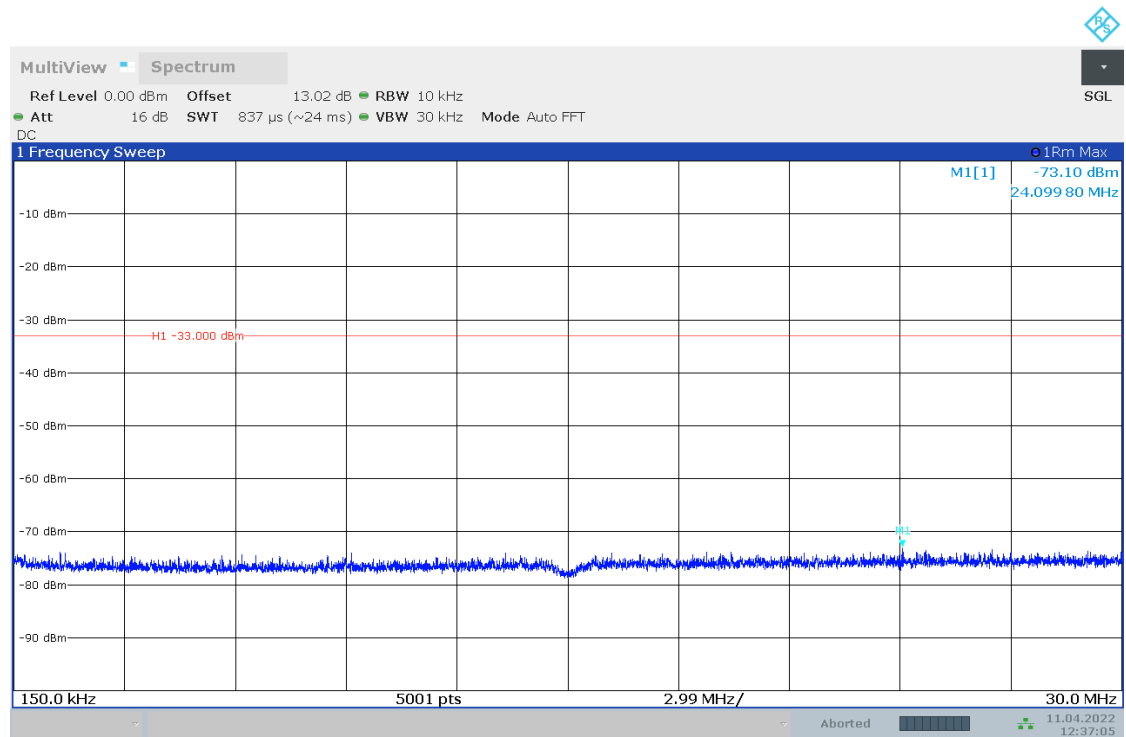
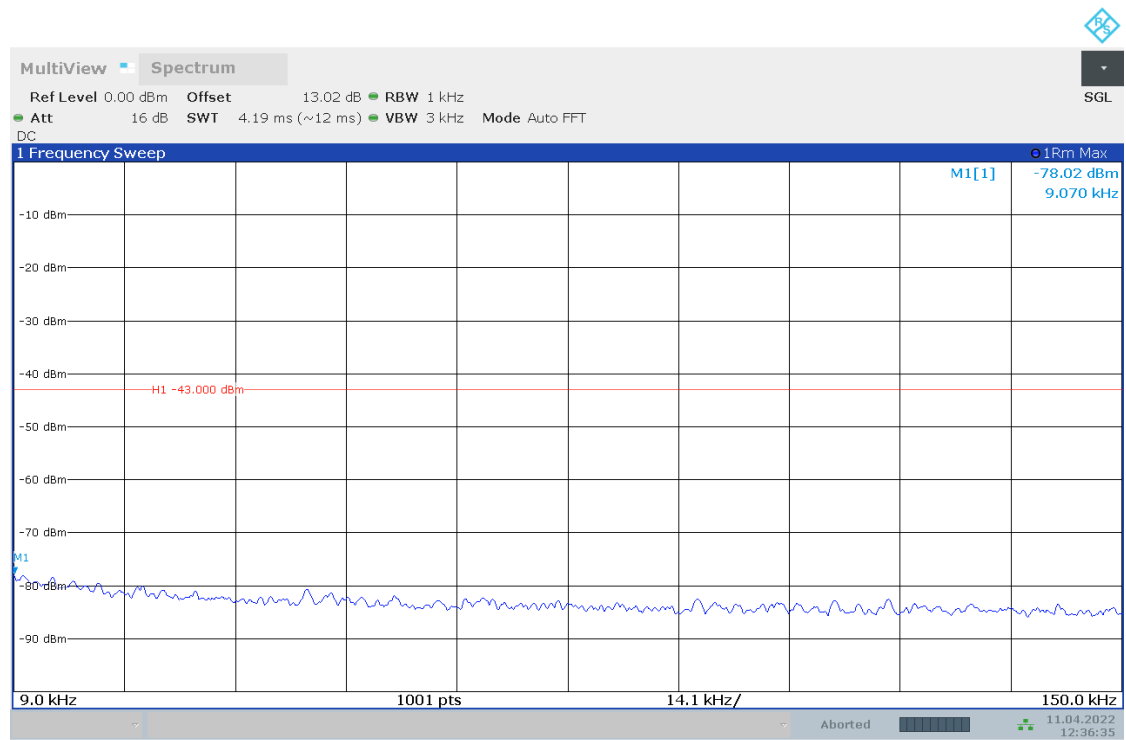


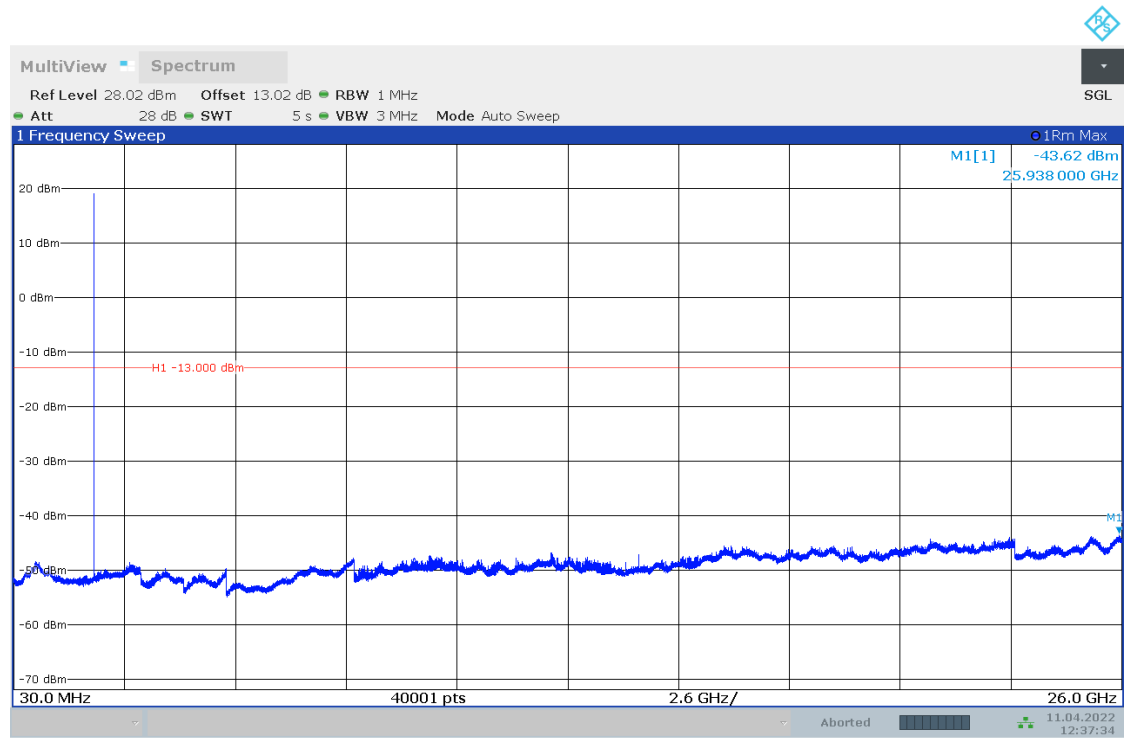
12:35:36 11.04.2022



12:36:05 11.04.2022

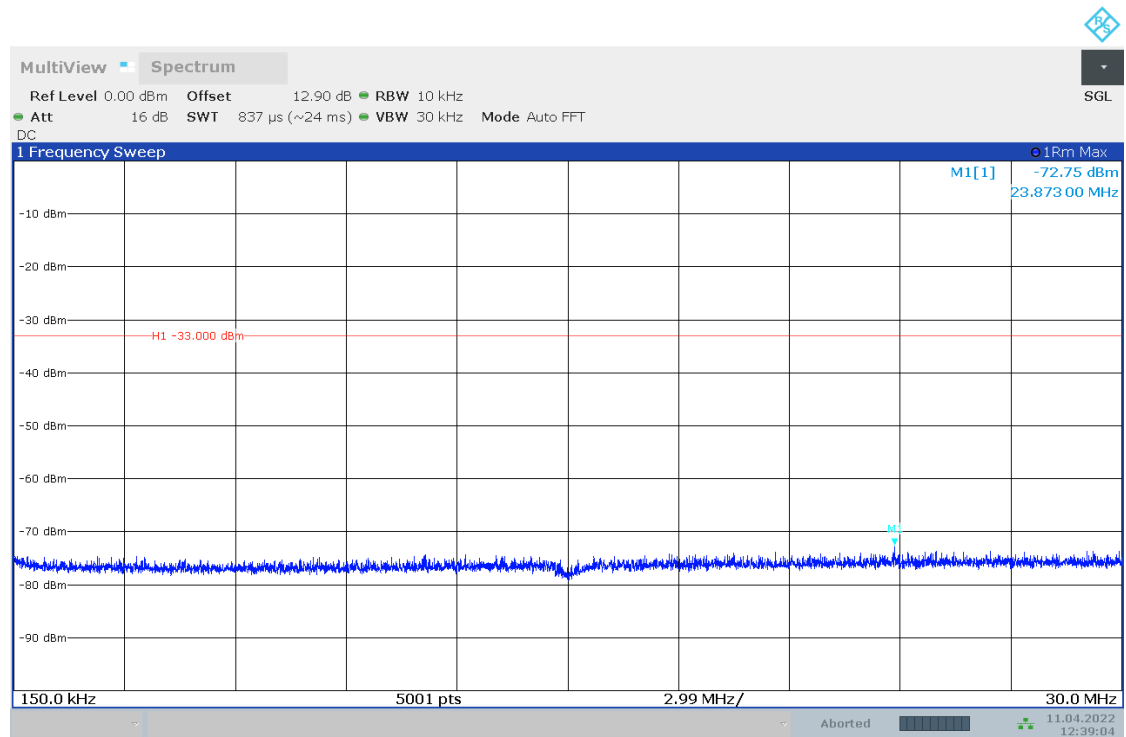
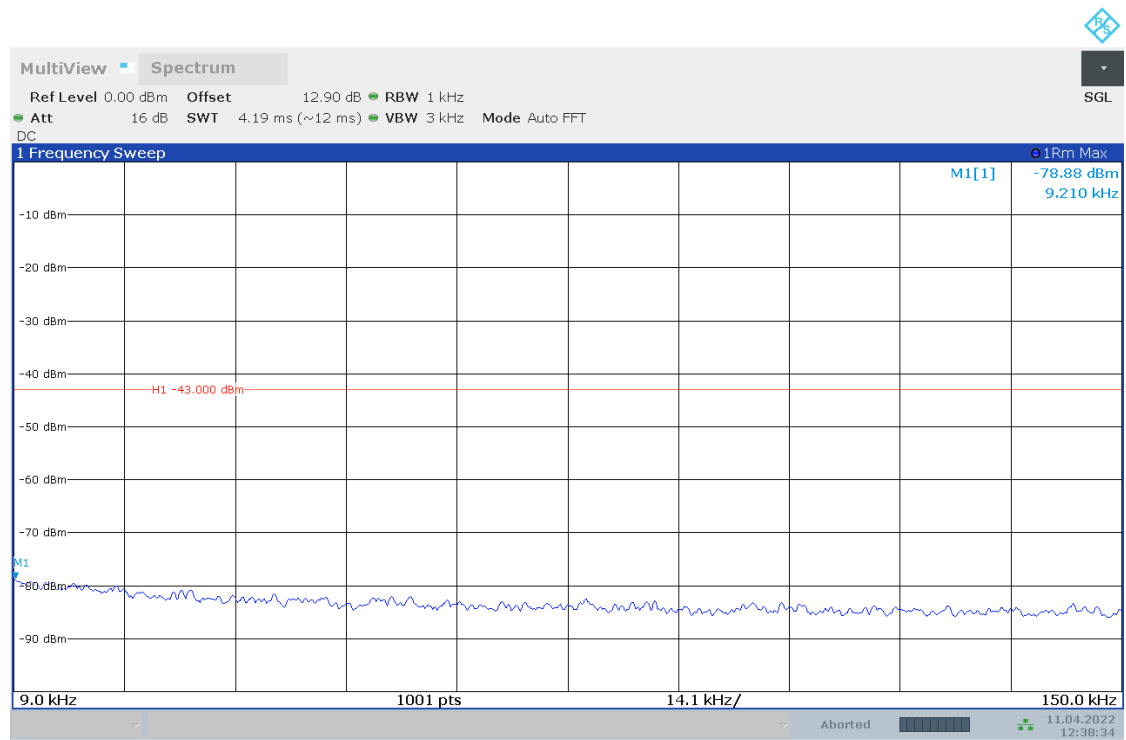
6.2.36 TM2_1.4MHZ_HCH_RB1#5

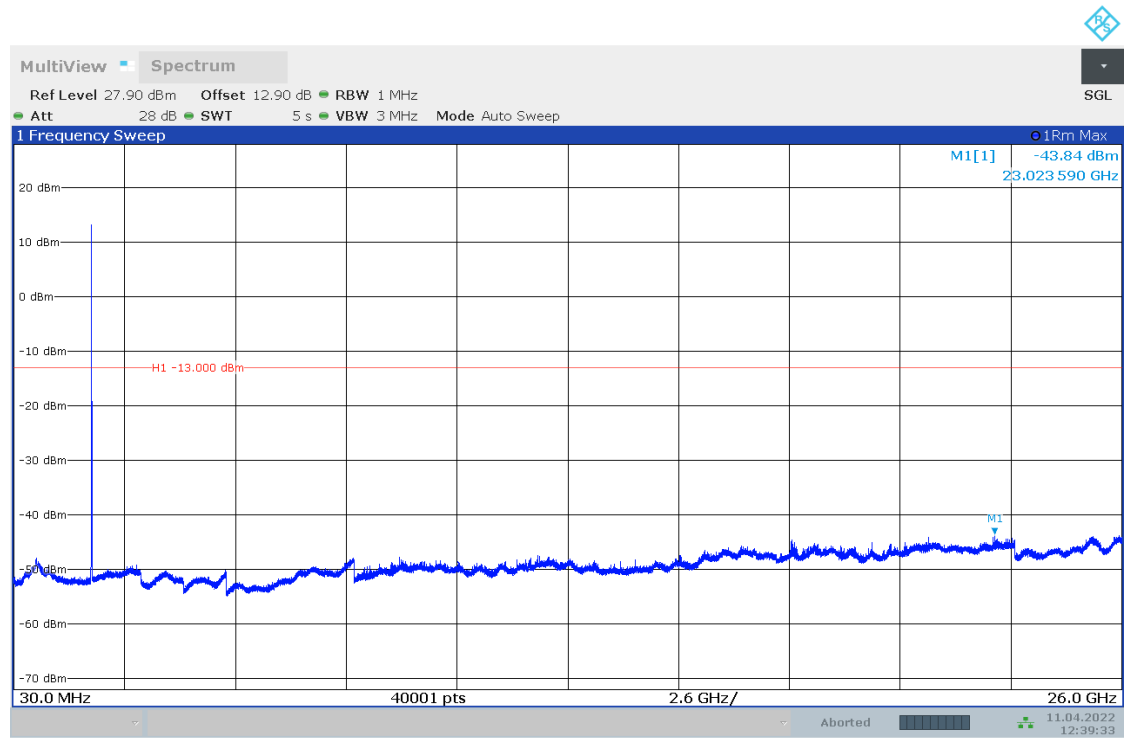




12:37:35 11.04.2022

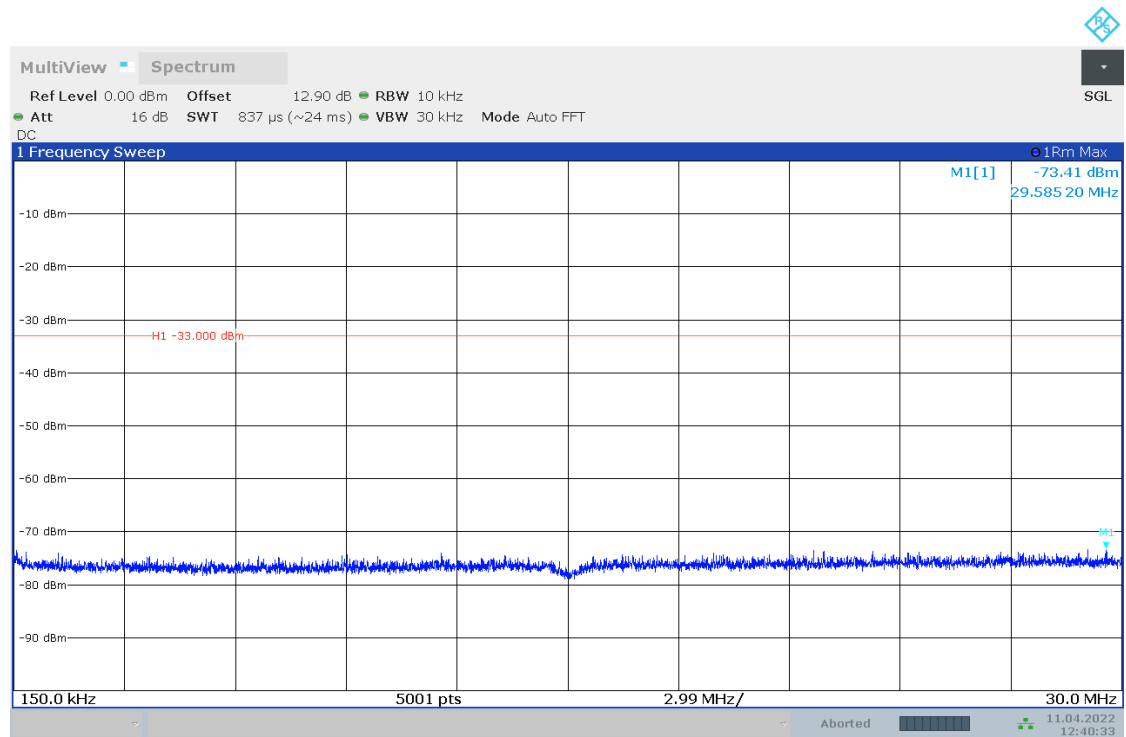
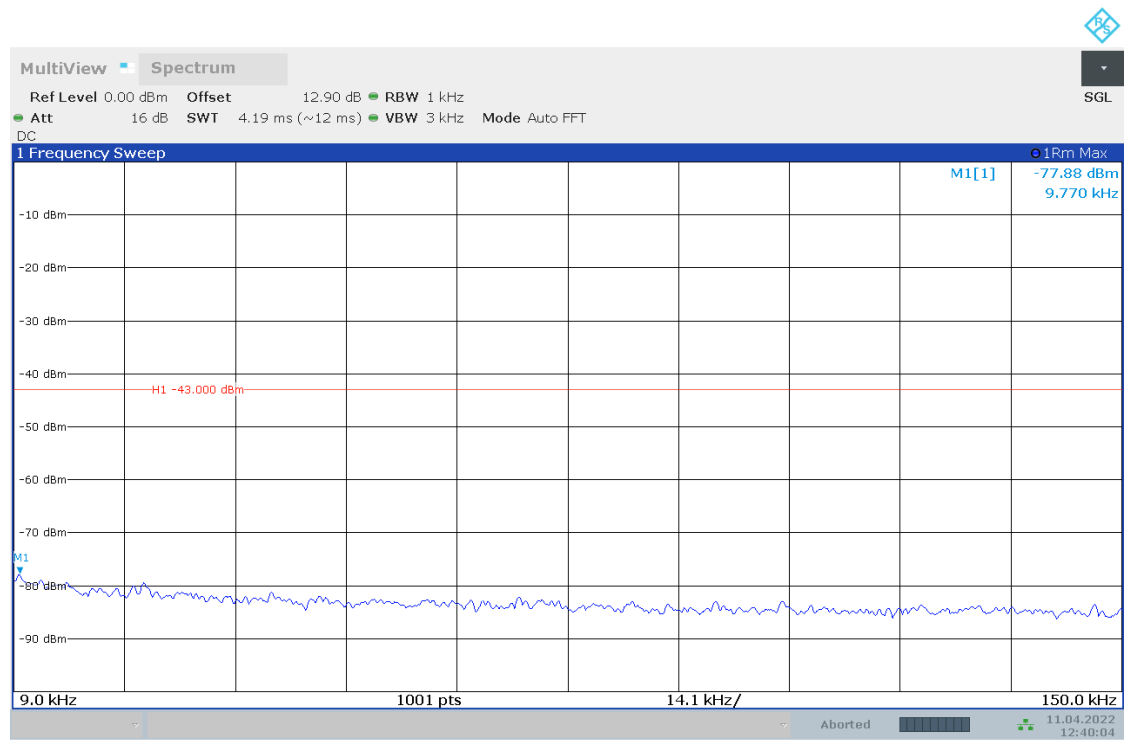
6.2.37 TM2_5MHZ_LCH_RB25#0

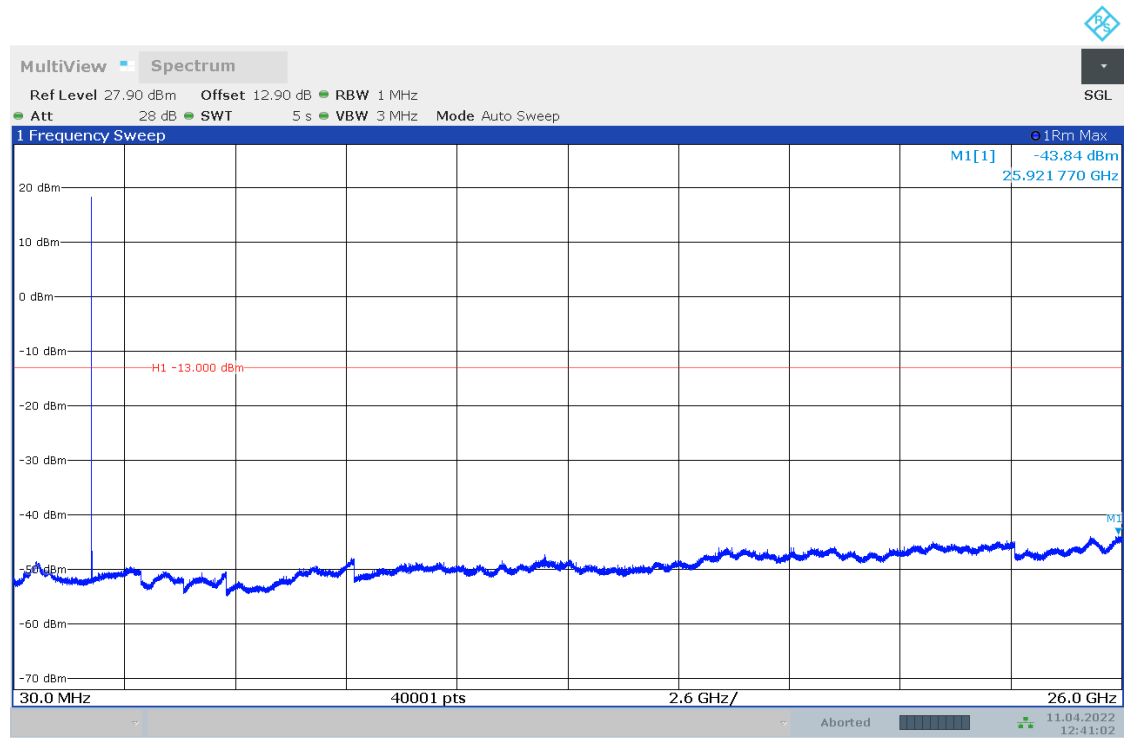




12:39:34 11.04.2022

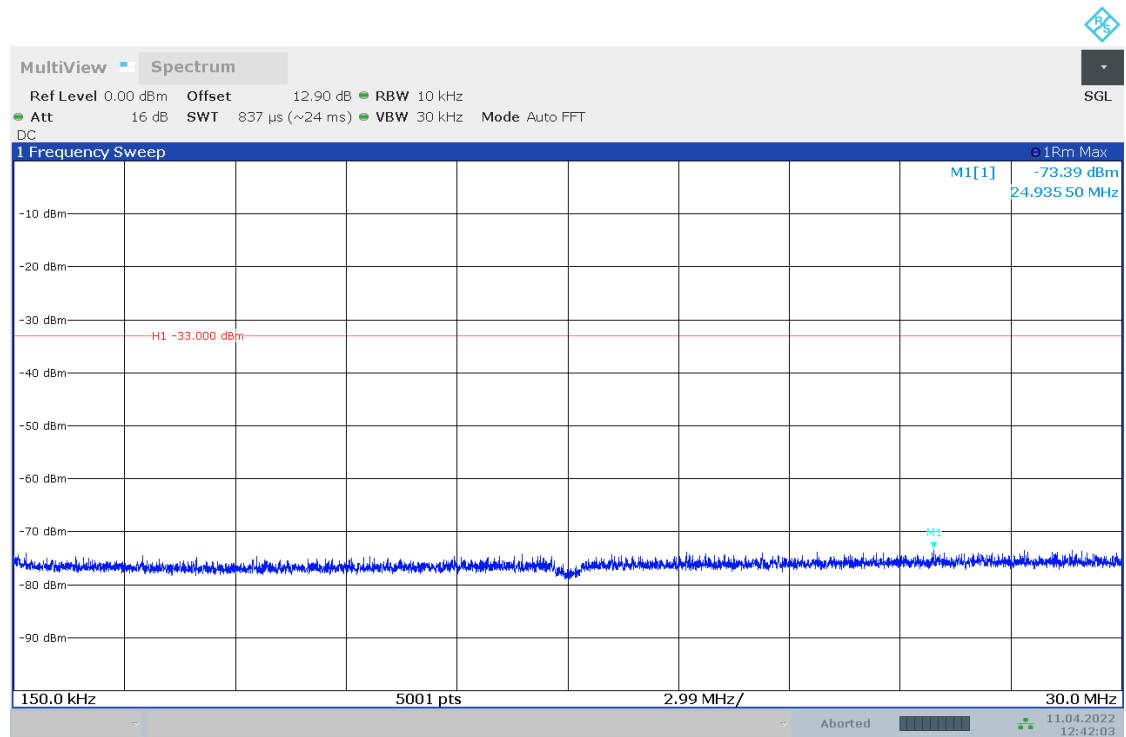
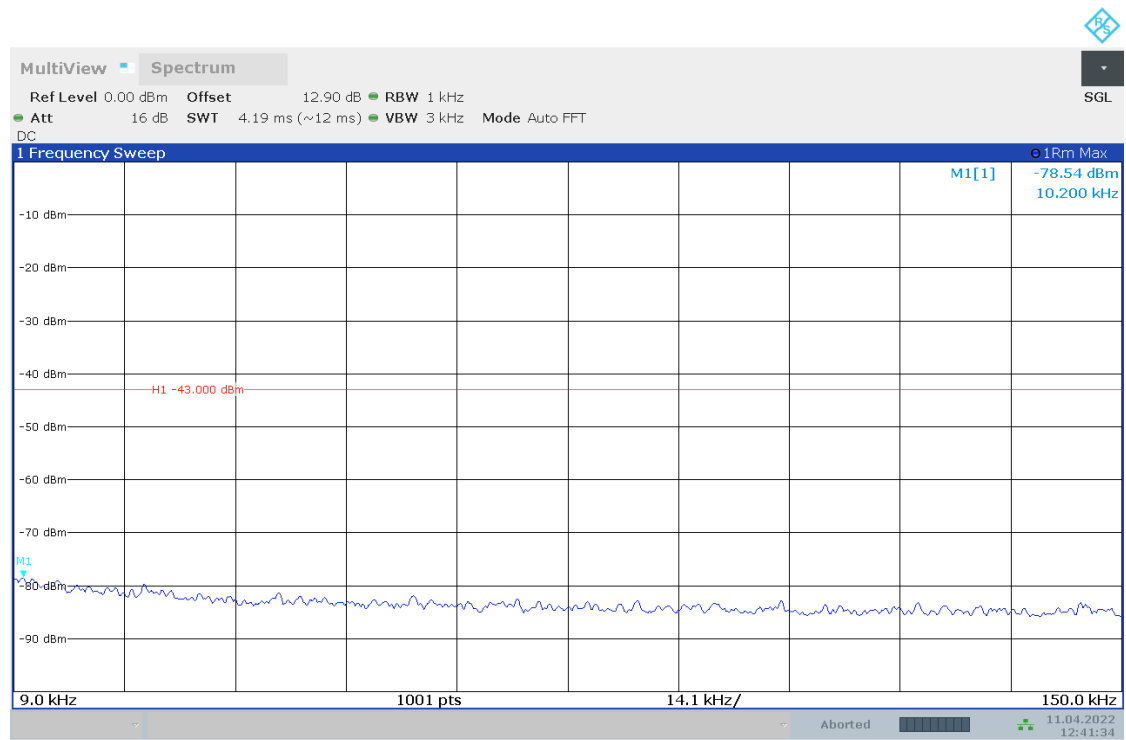
6.2.38 TM2_5MHZ_LCH_RB1#0

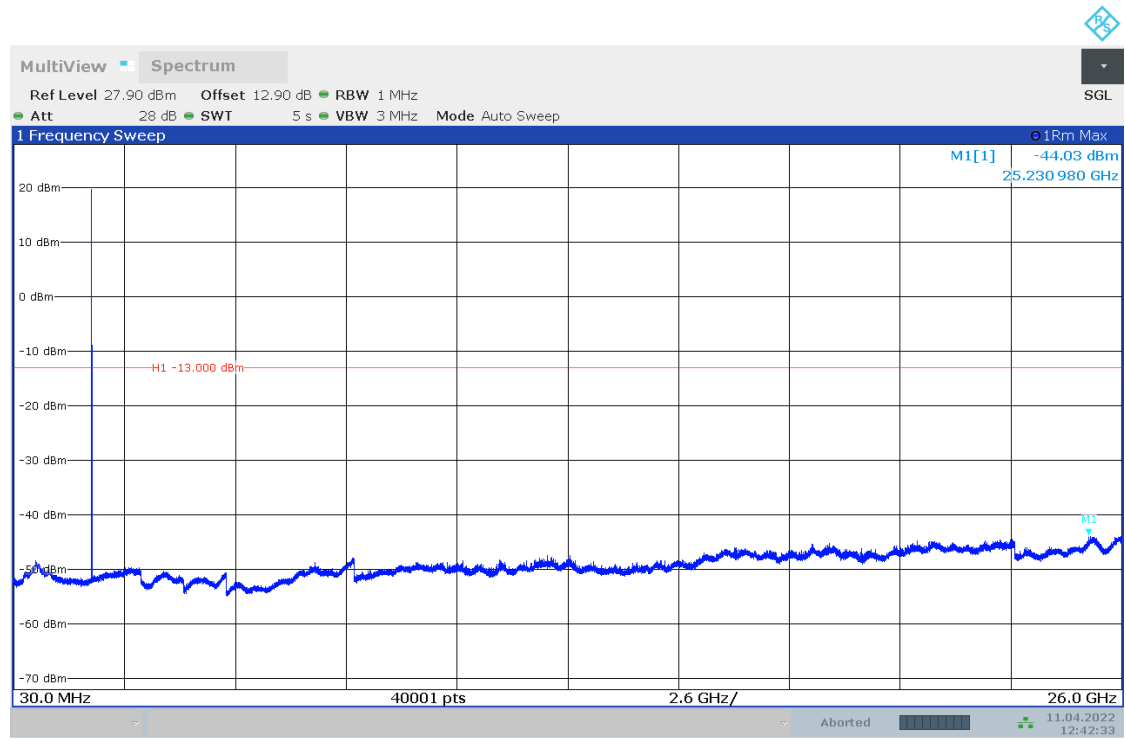




12:41:03 11.04.2022

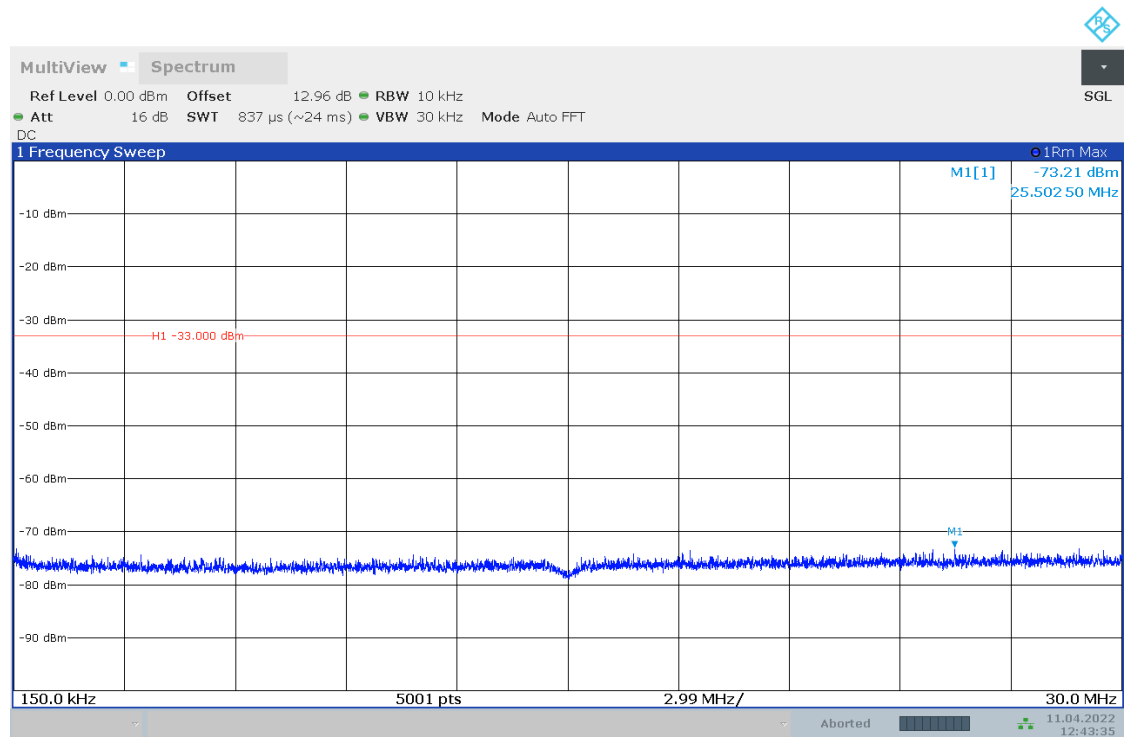
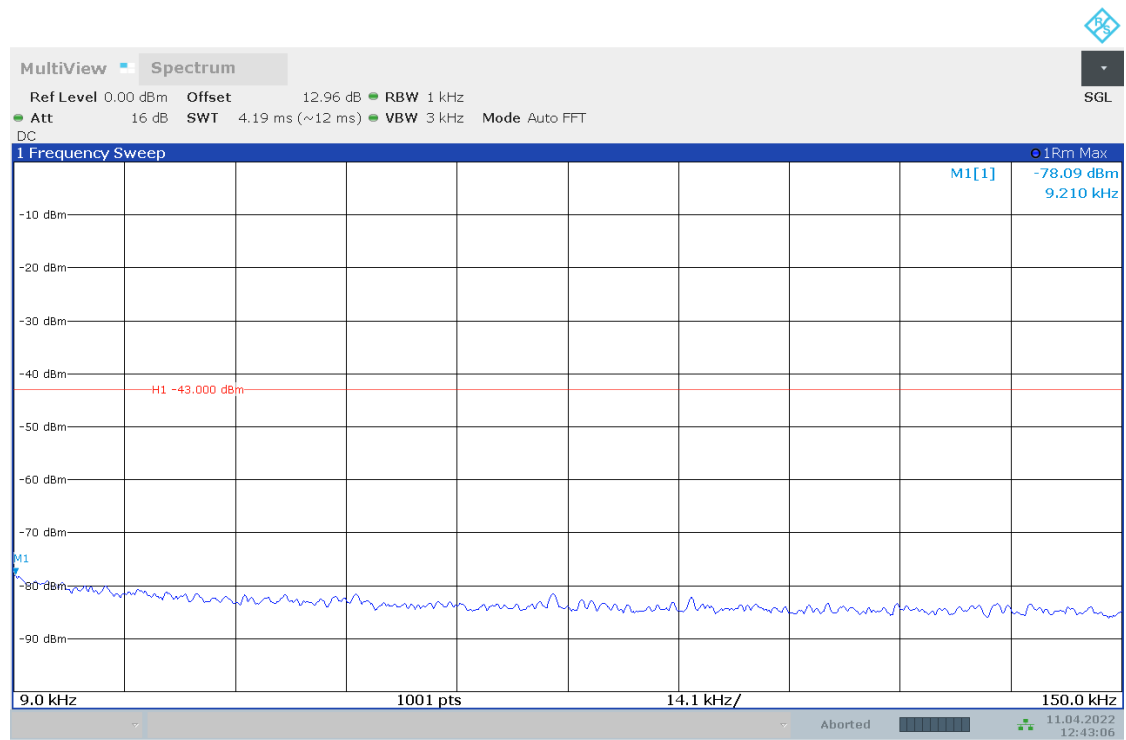
6.2.39 TM2_5MHZ_LCH_RB1#24

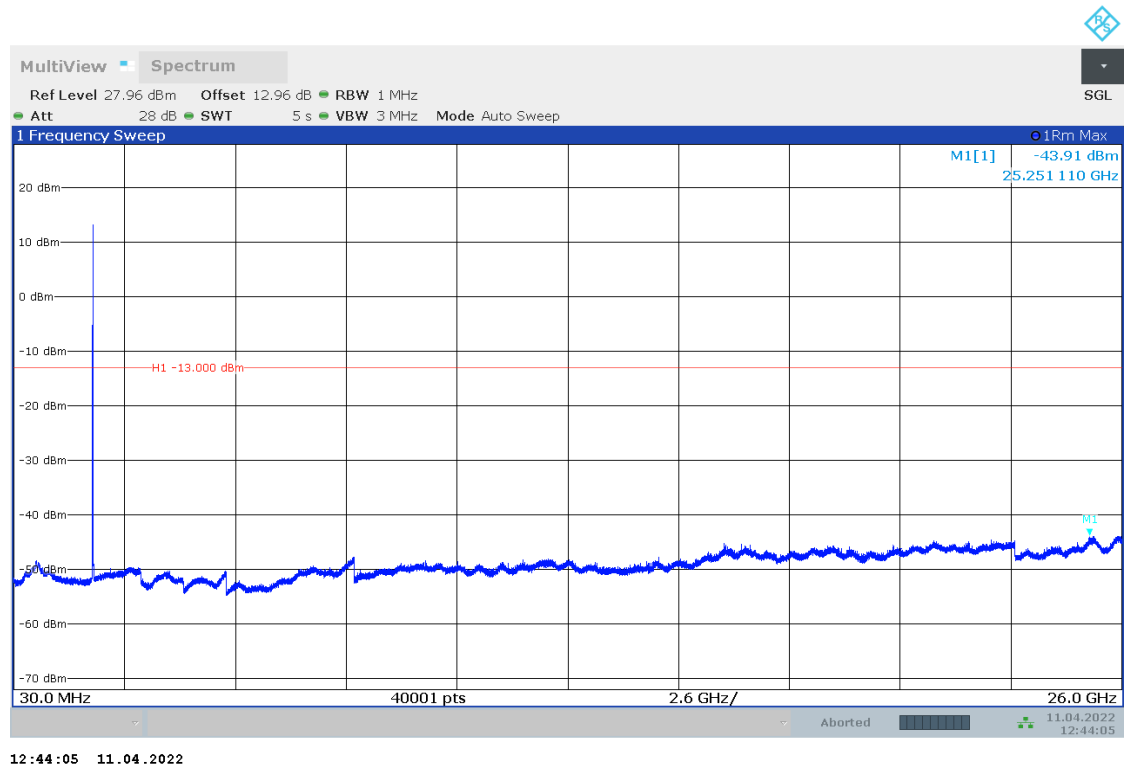




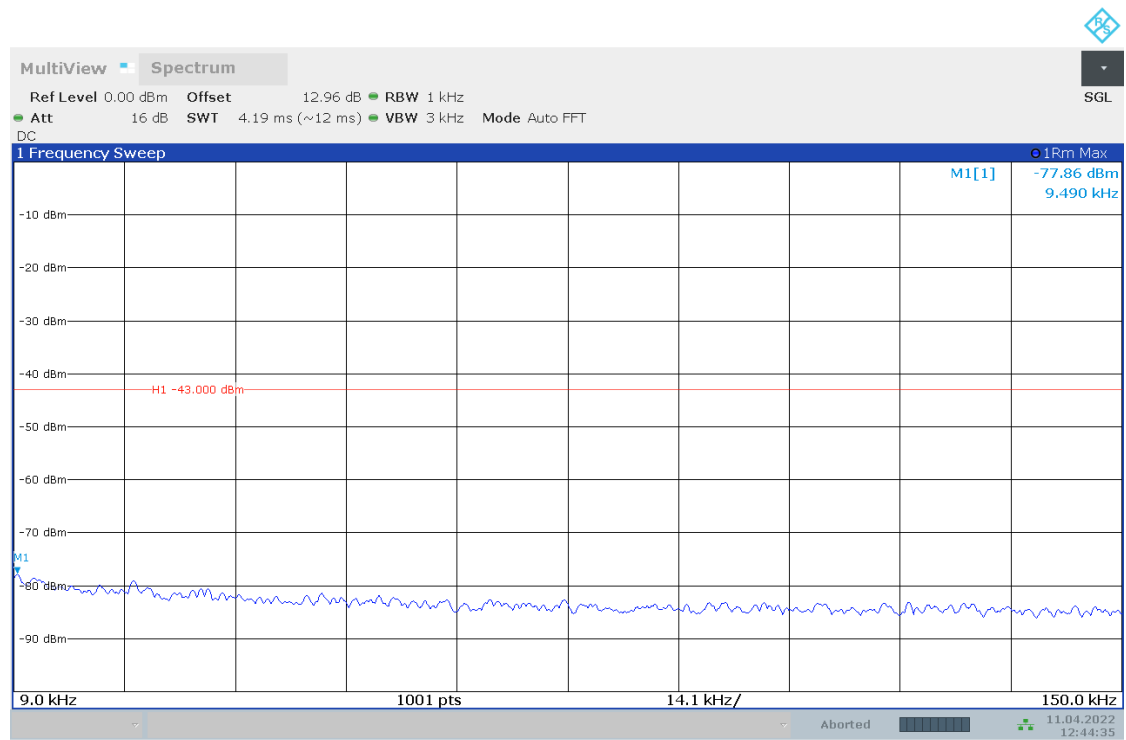
12:42:33 11.04.2022

6.2.40 TM2_5MHZ_MCH_RB25#0

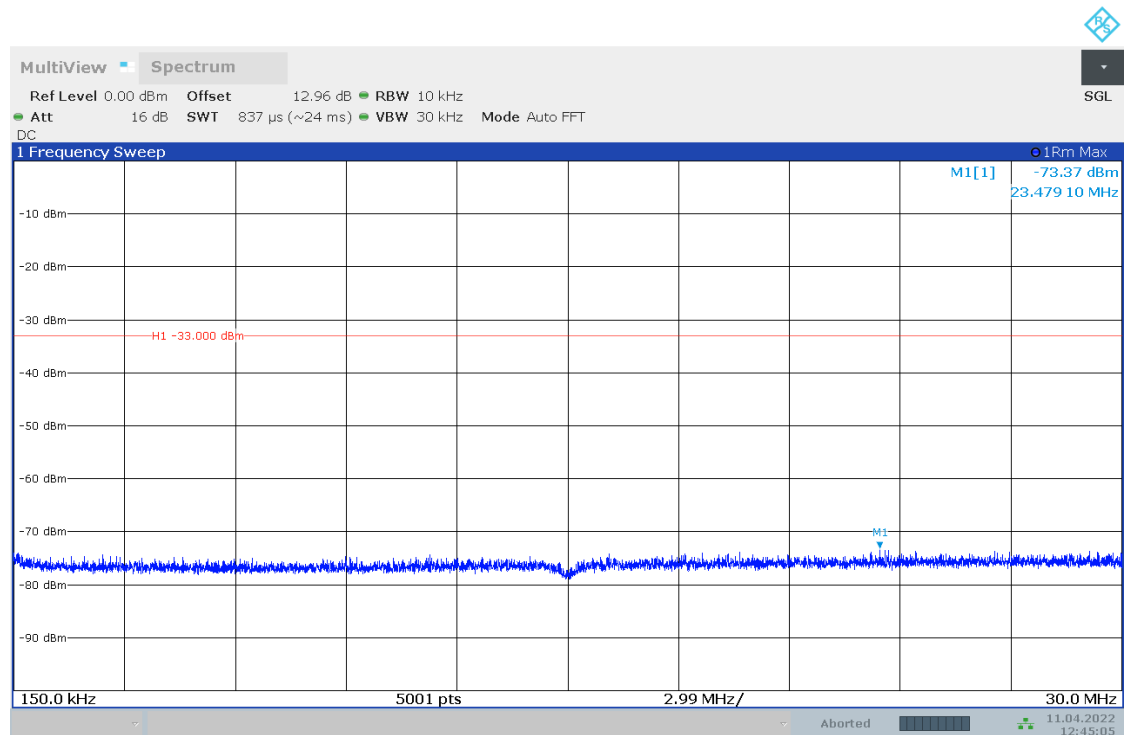




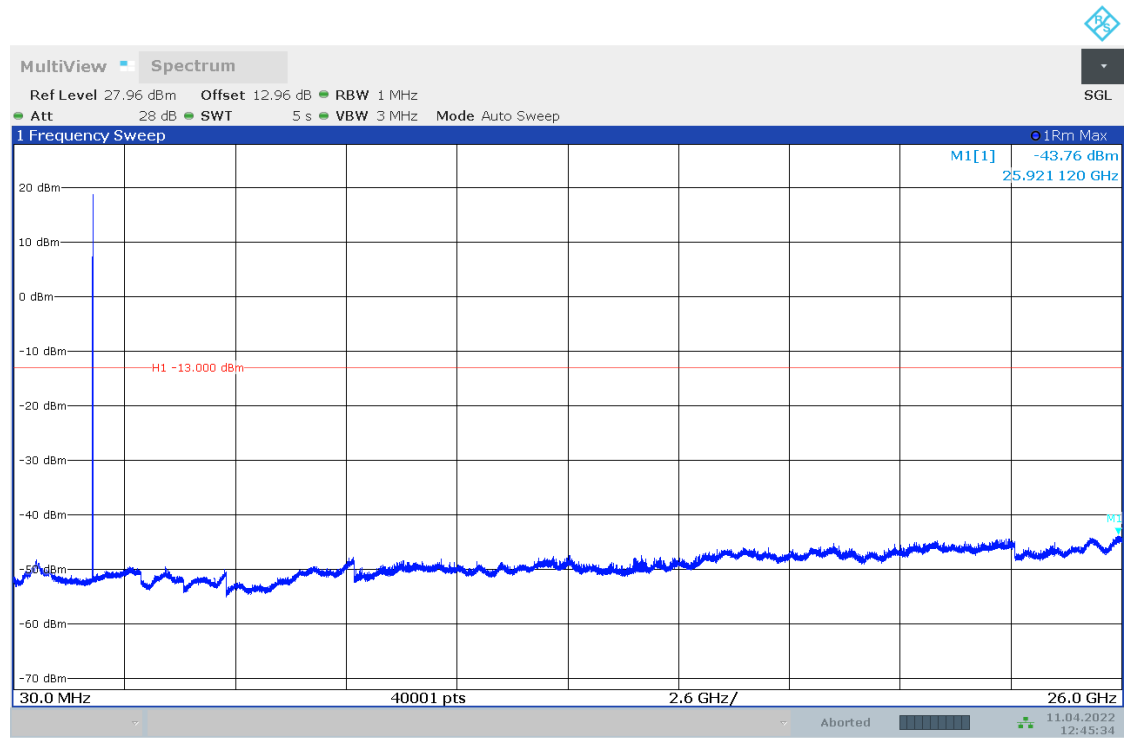
6.2.41 TM2_5MHZ_MCH_RB1#0



12:44:36 11.04.2022

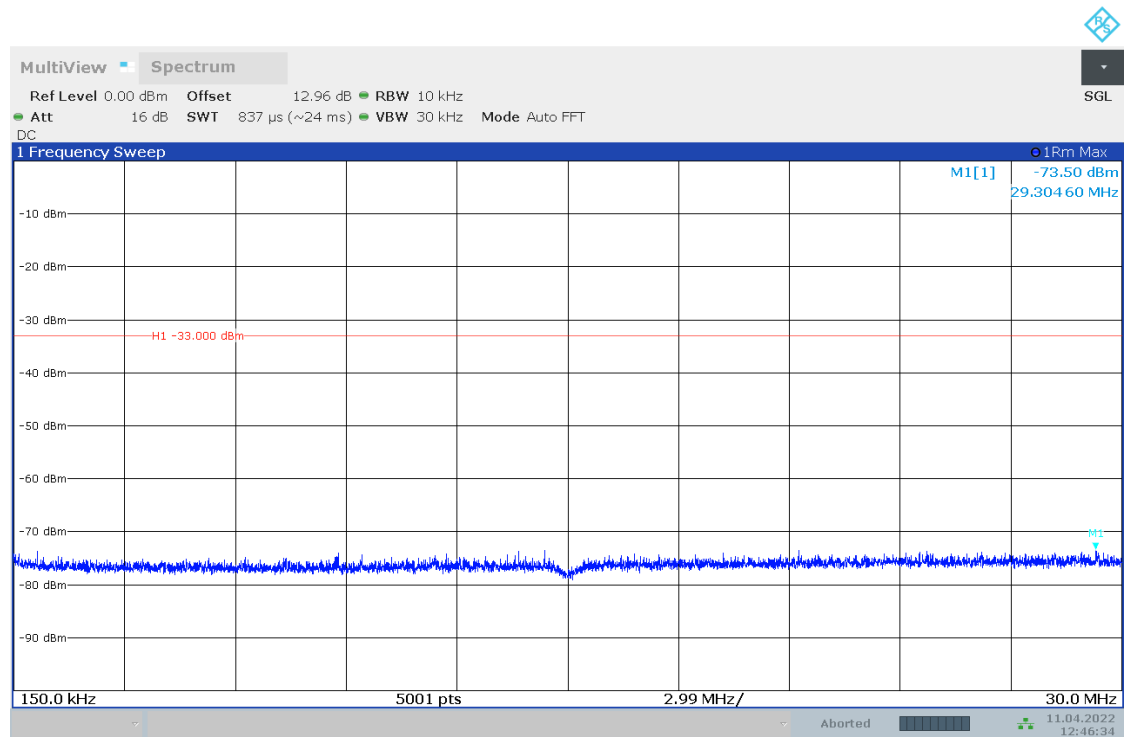
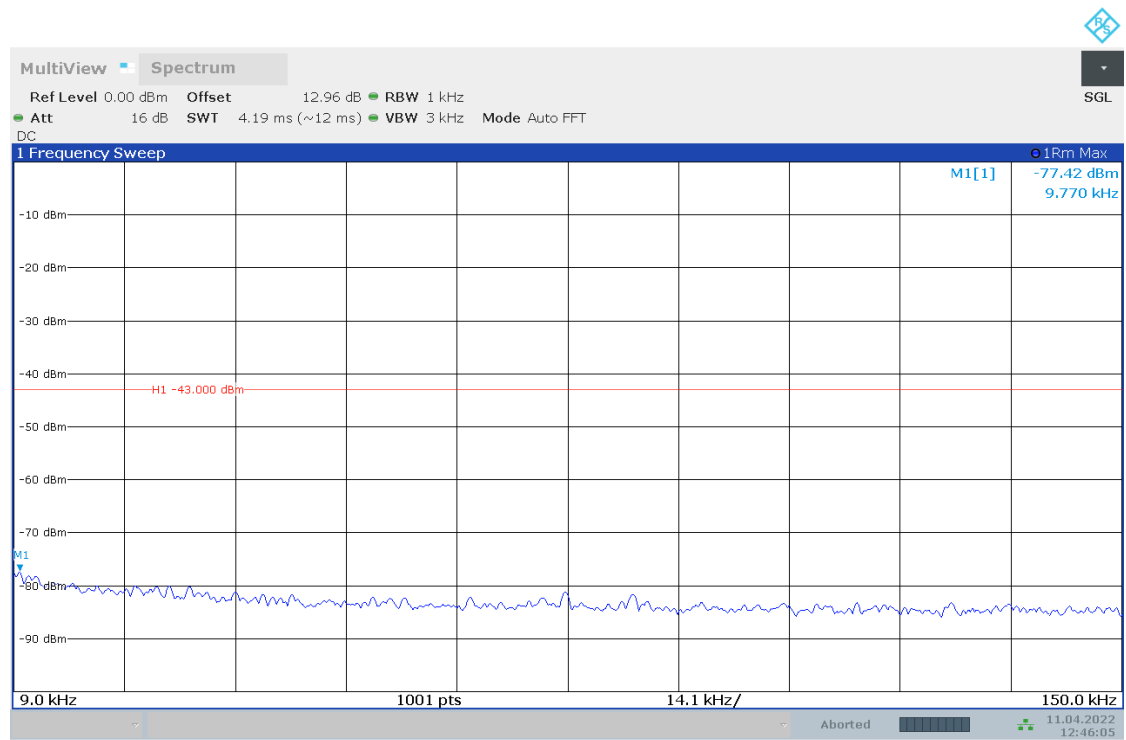


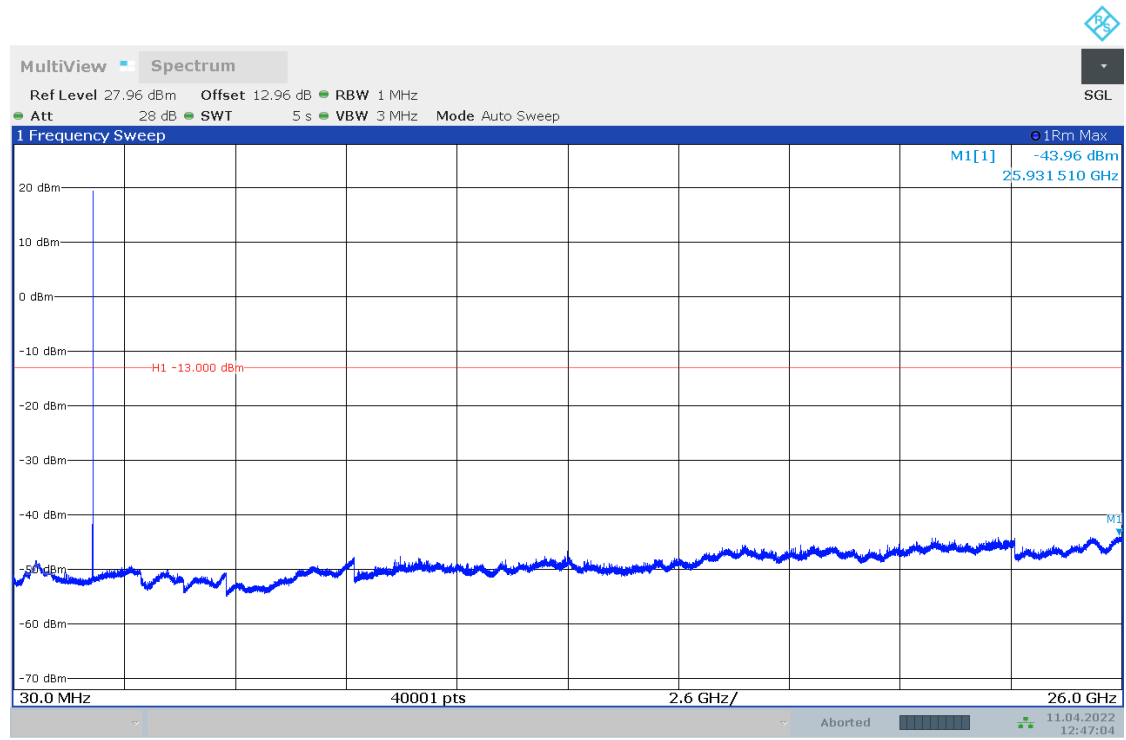
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12:45:34 11.04.2022

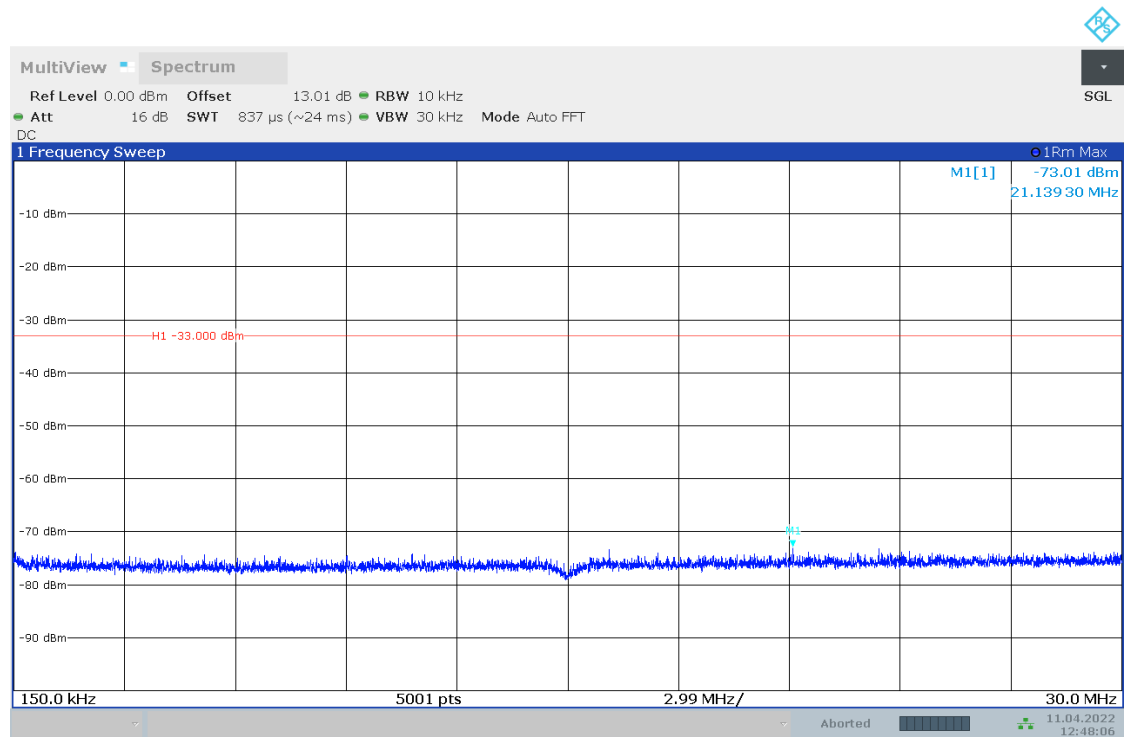
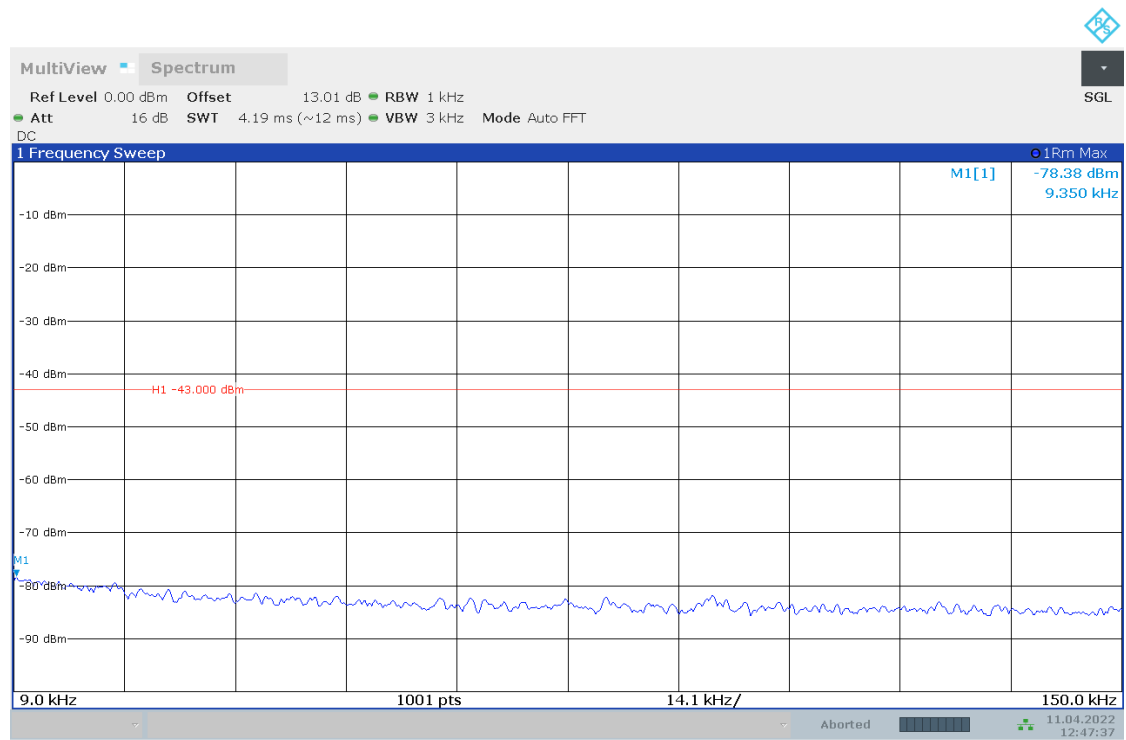
6.2.42 TM2_5MHZ_MCH_RB1#24

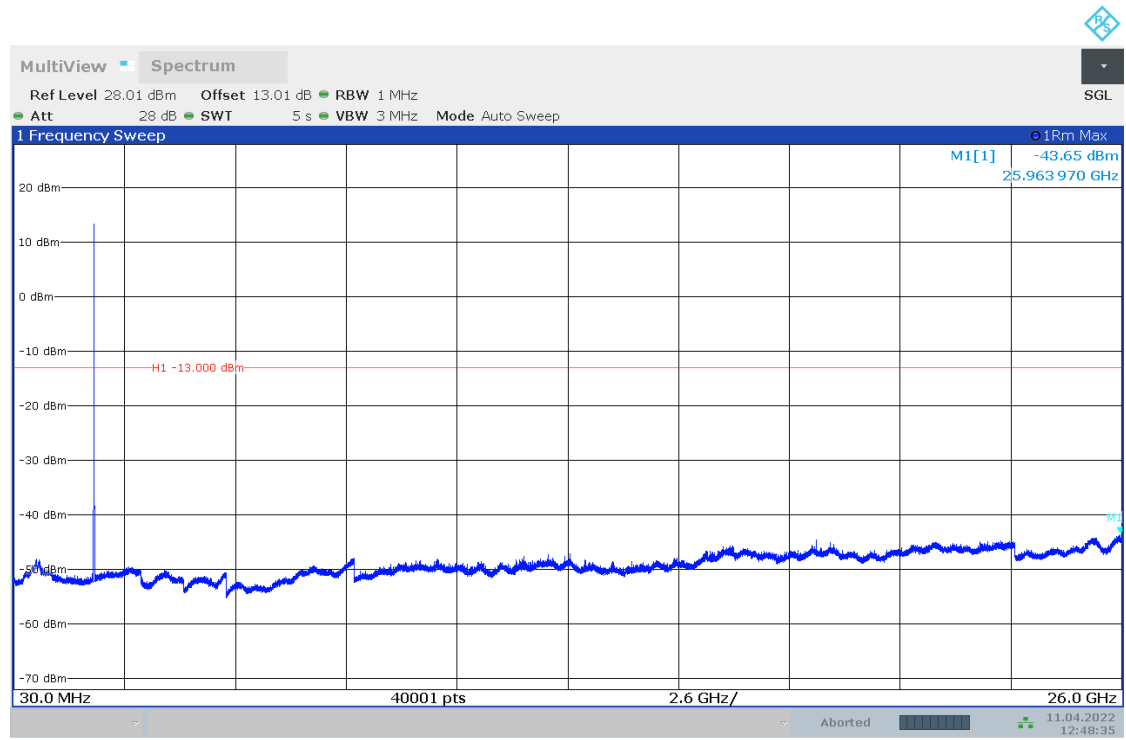




12:47:04 11.04.2022

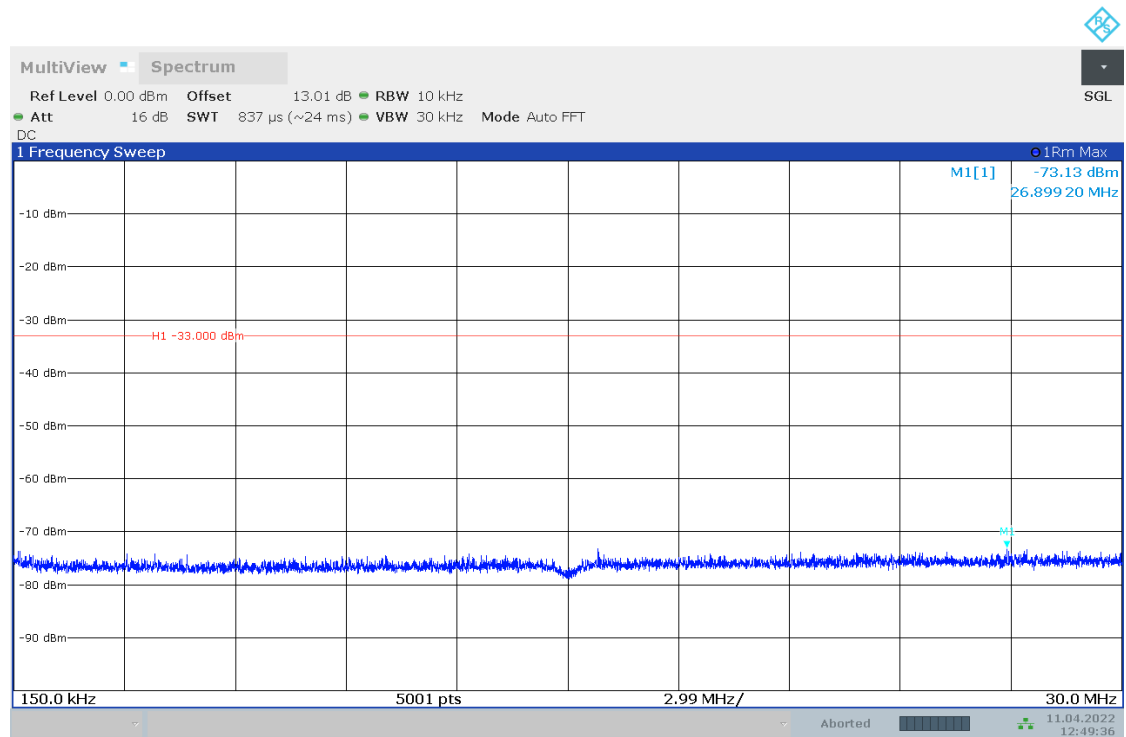
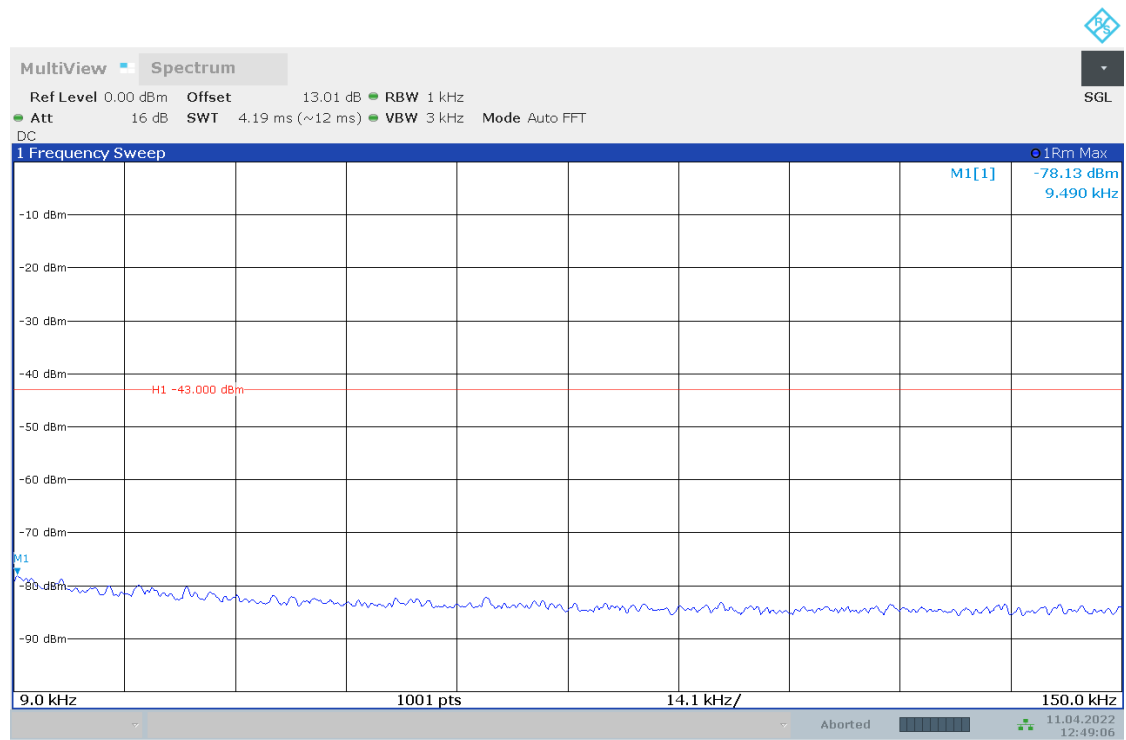
6.2.43 TM2_5MHZ_HCH_RB25#0

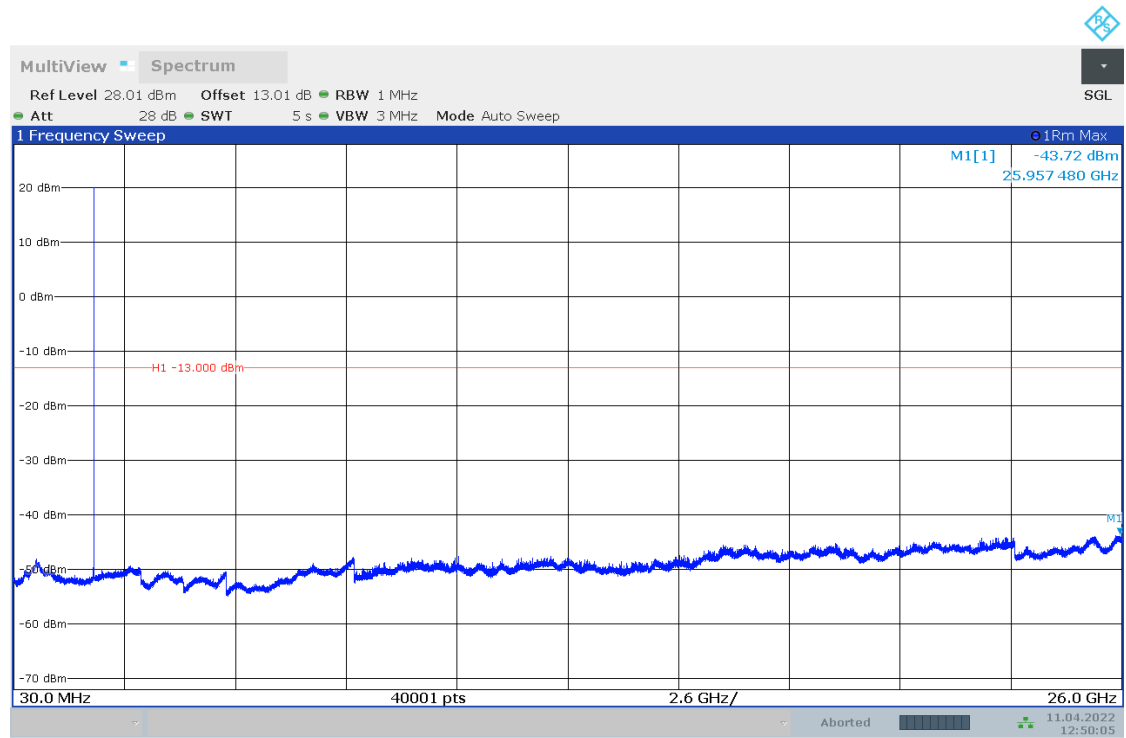




12:48:36 11.04.2022

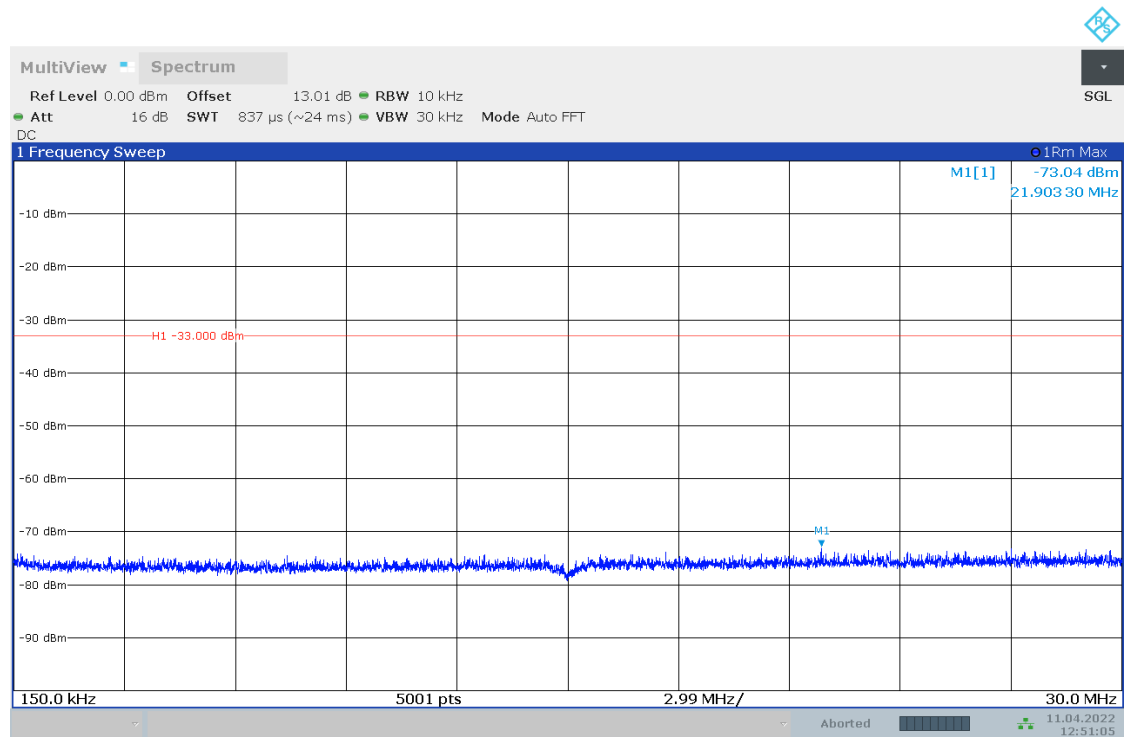
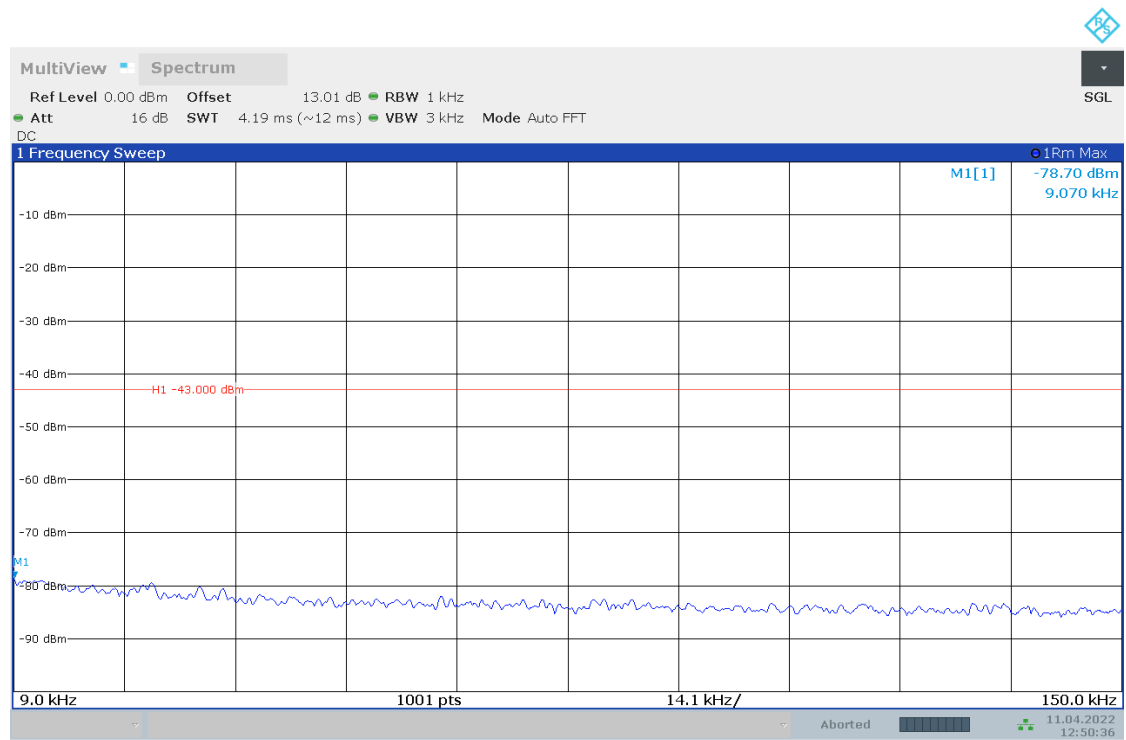
6.2.44 TM2_5MHZ_HCH_RB1#0

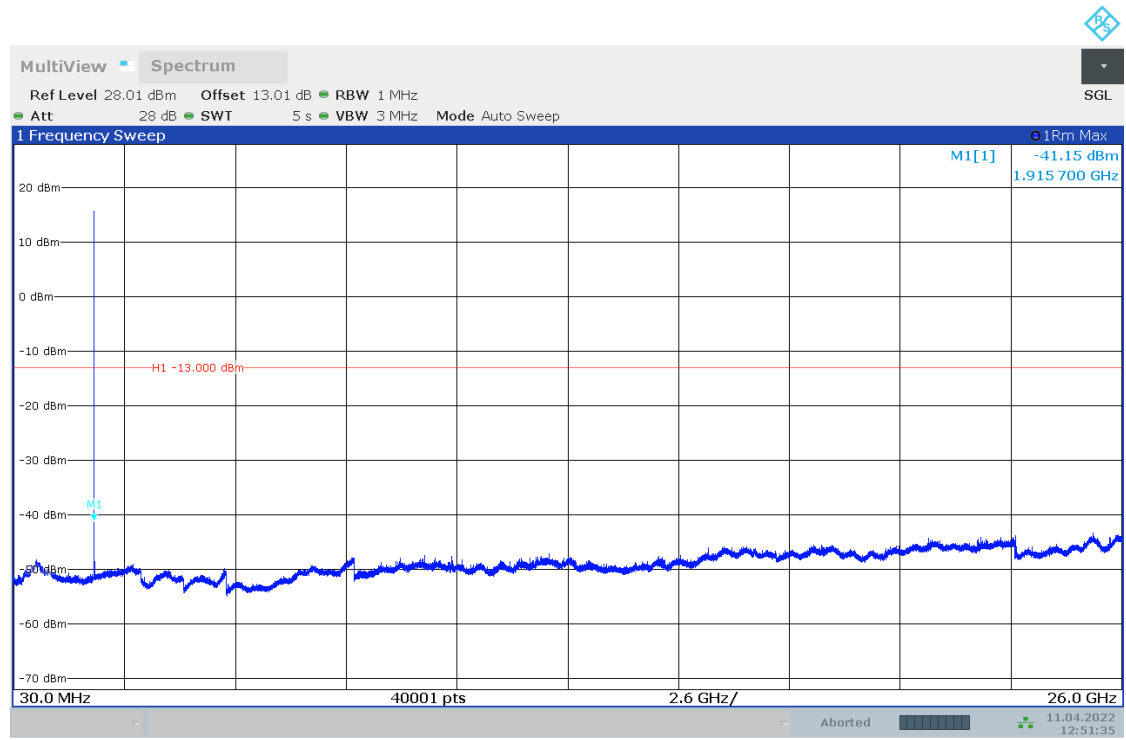




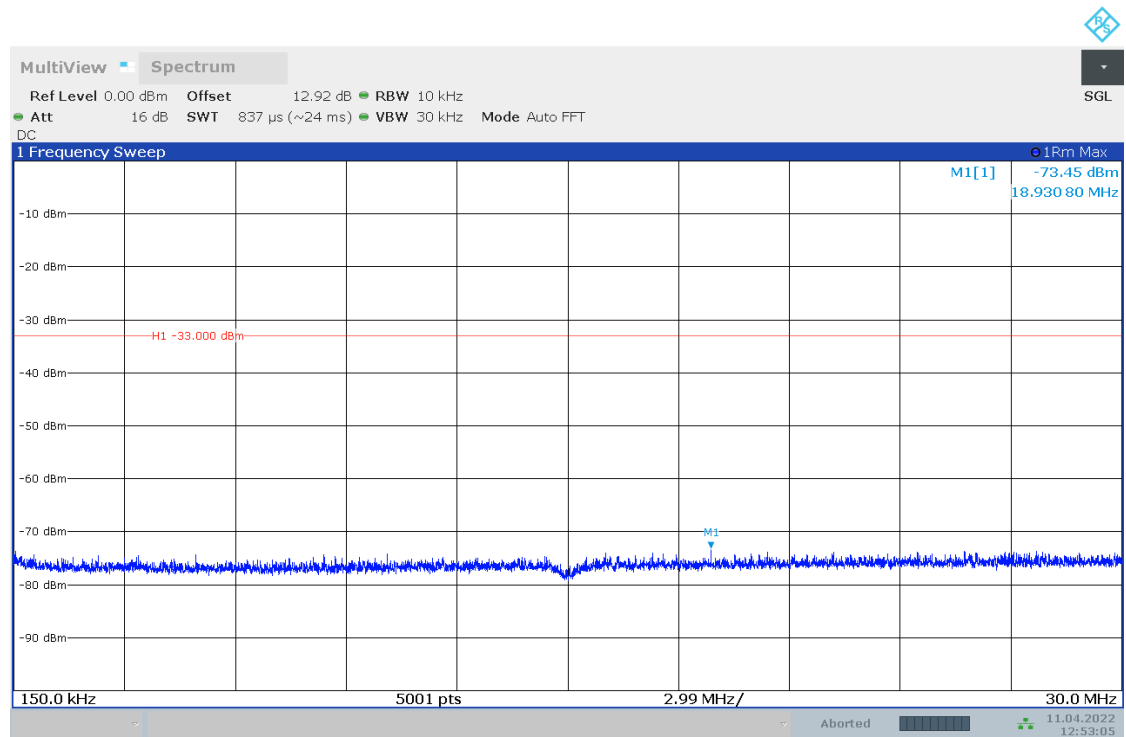
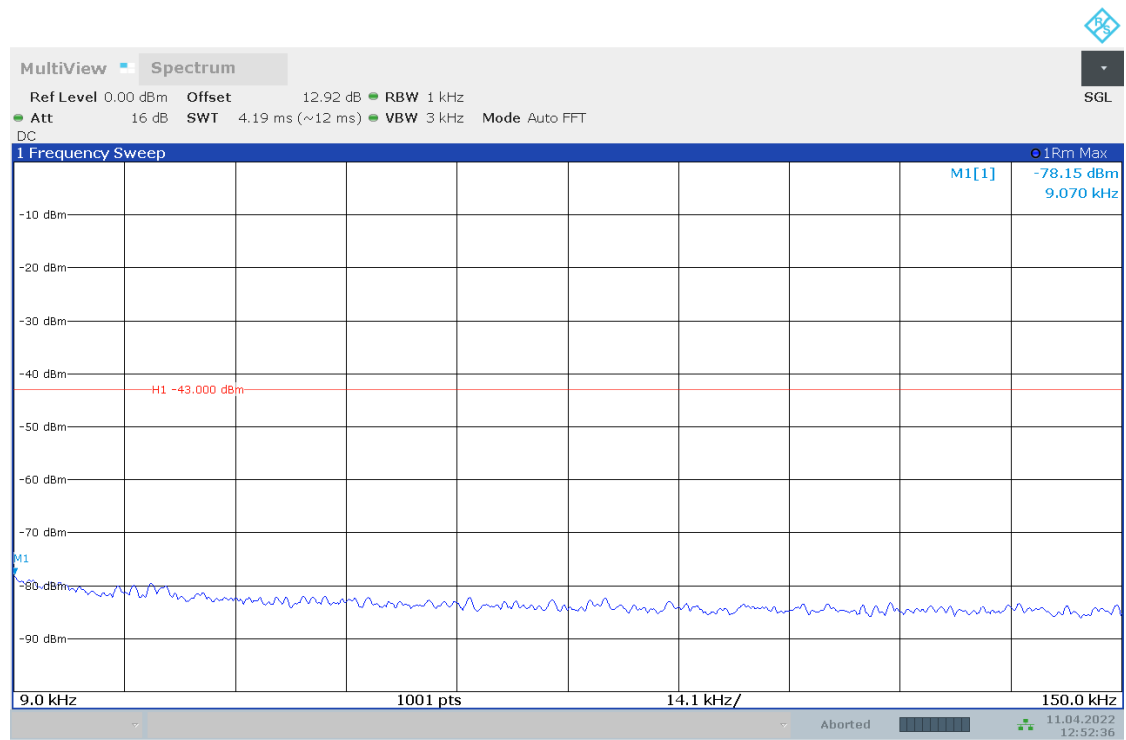
12:50:05 11.04.2022

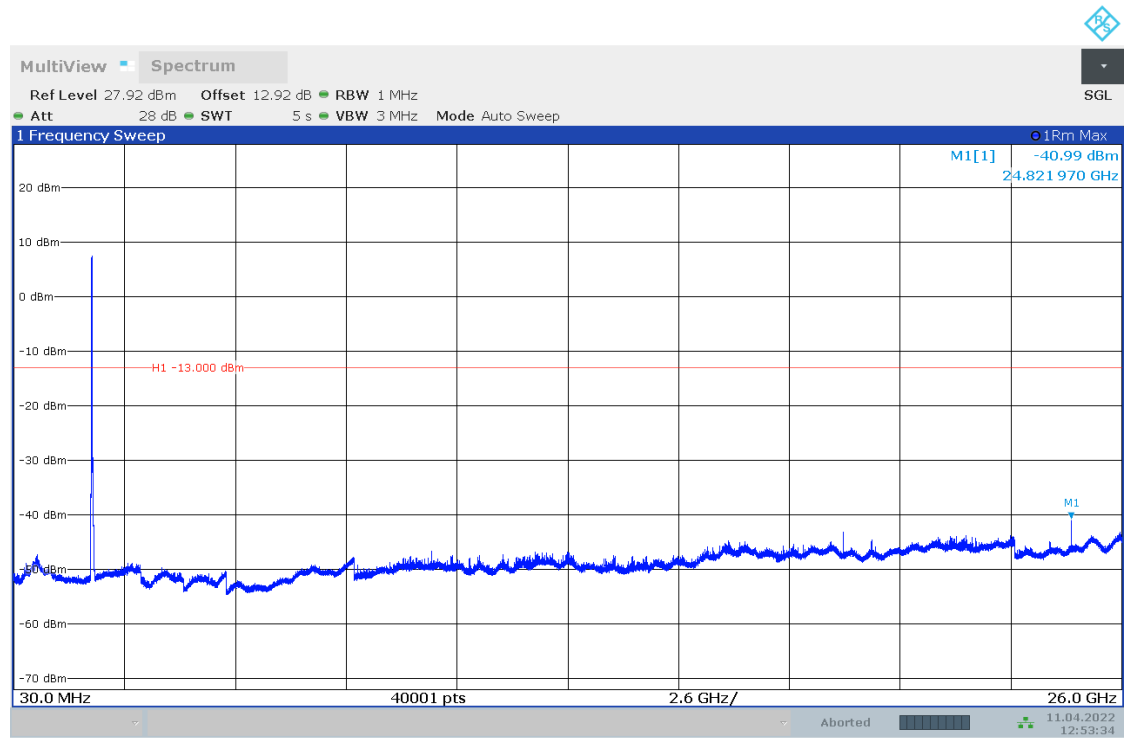
6.2.45 TM2_5MHZ_HCH_RB1#24





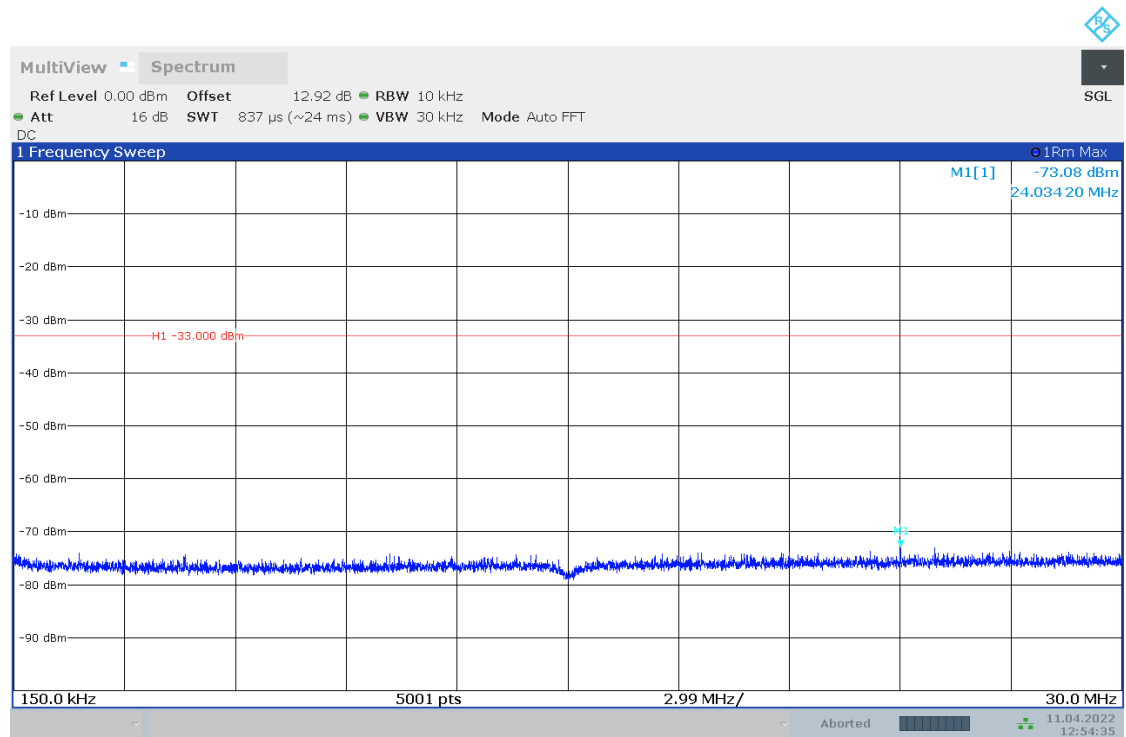
6.2.46 TM2_20MHZ_LCH_RB100#0

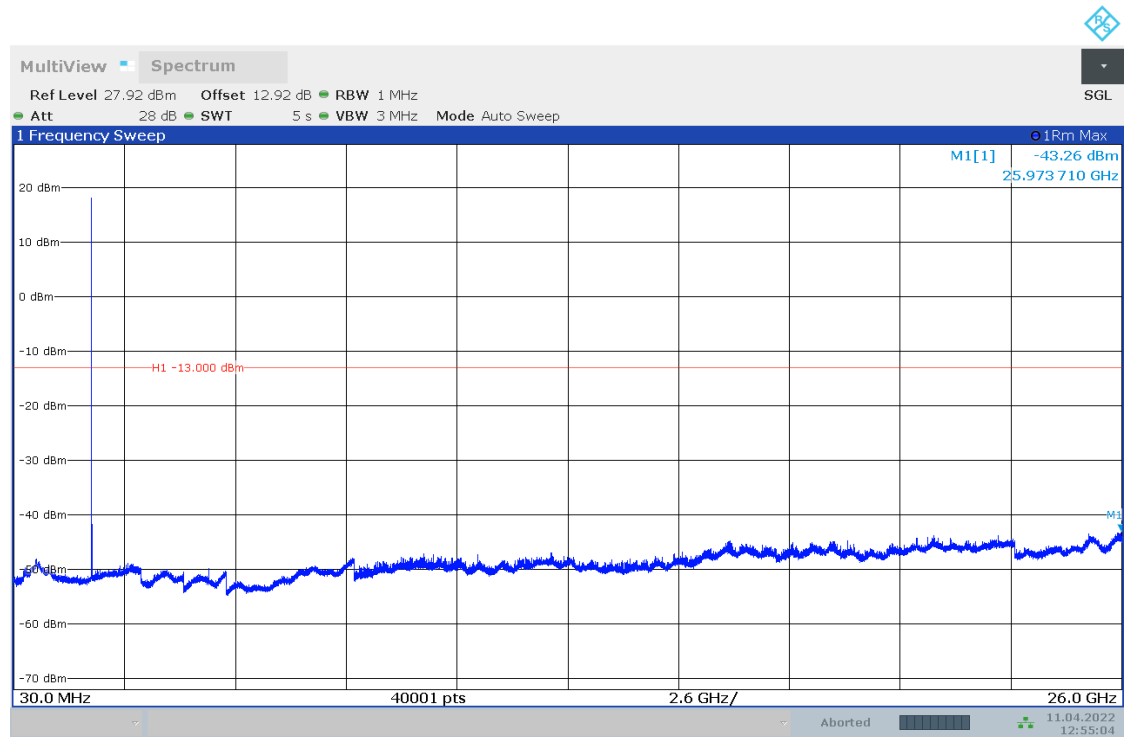




12:53:35 11.04.2022

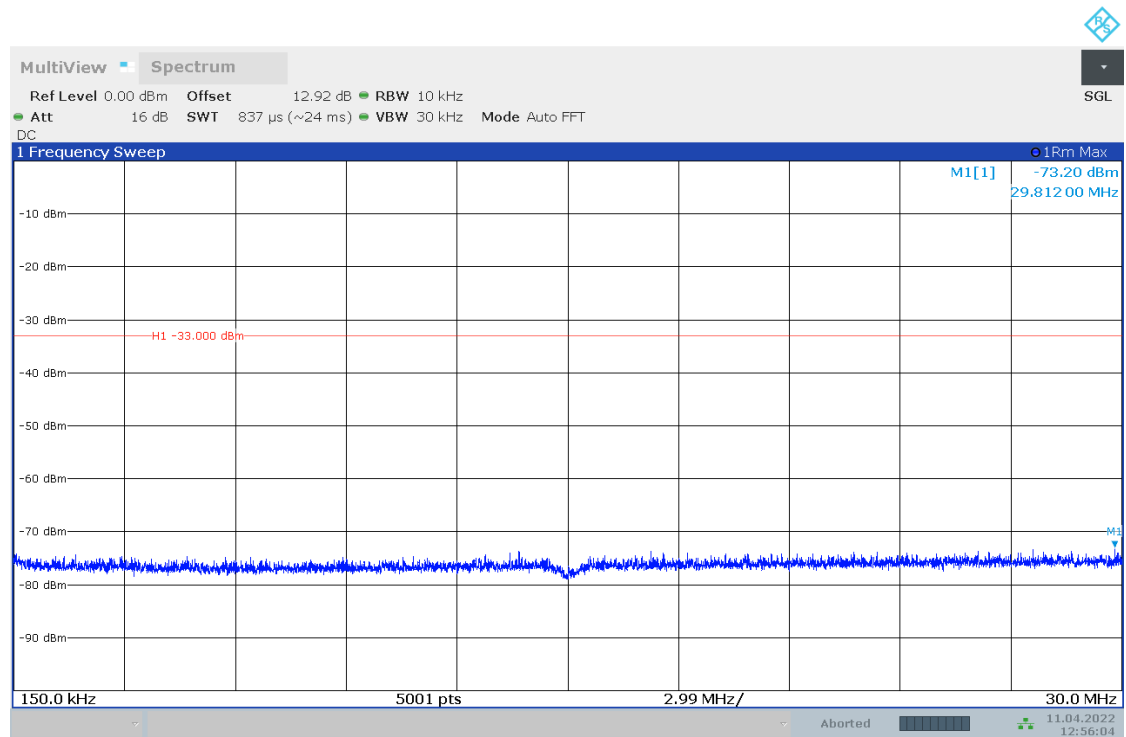
6.2.47 TM2_20MHZ_LCH_RB1#0

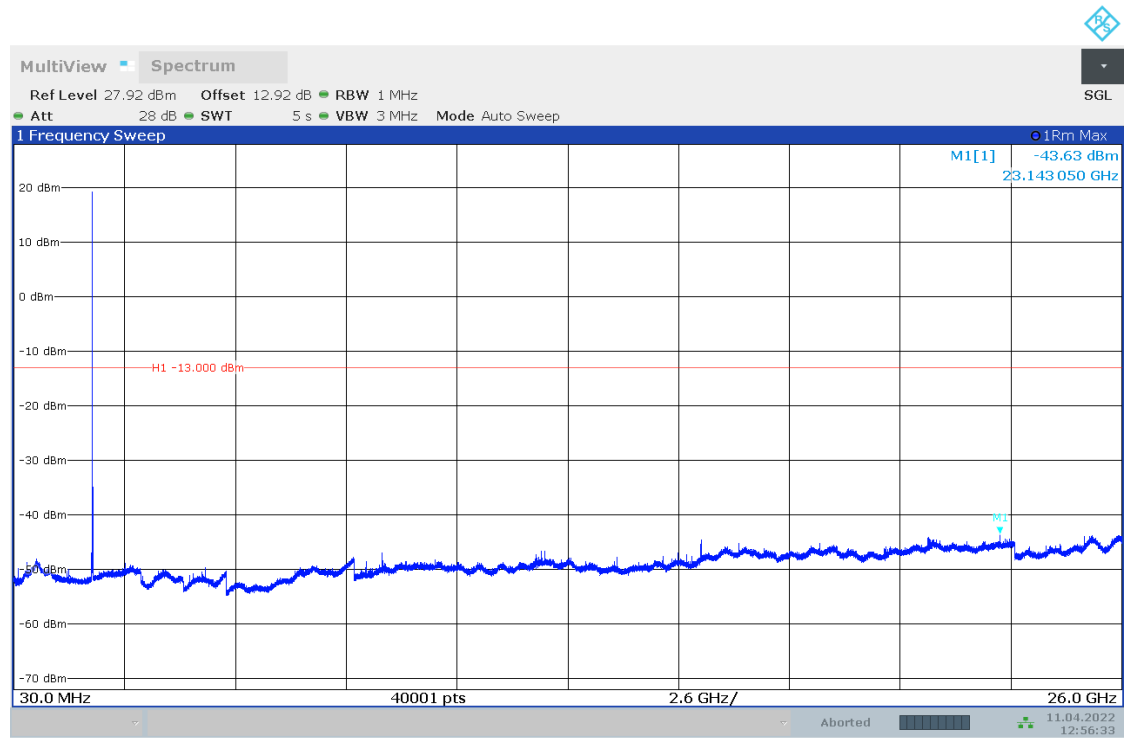




12:55:05 11.04.2022

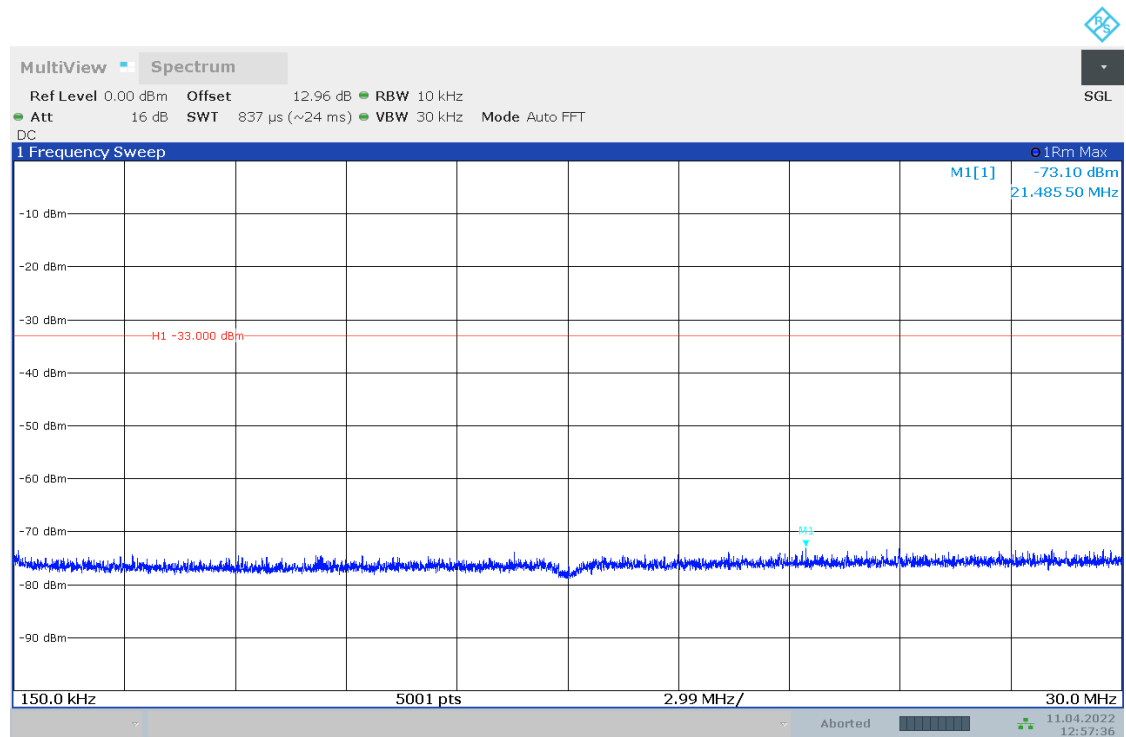
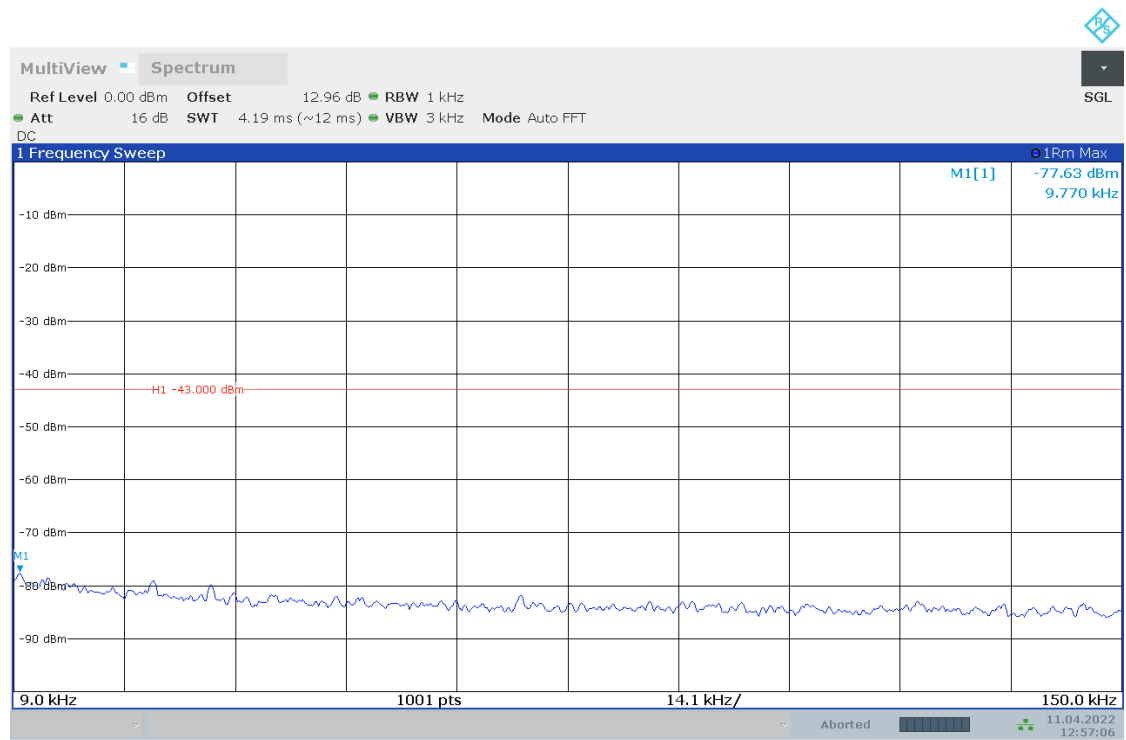
6.2.48 TM2_20MHZ_LCH_RB1#99

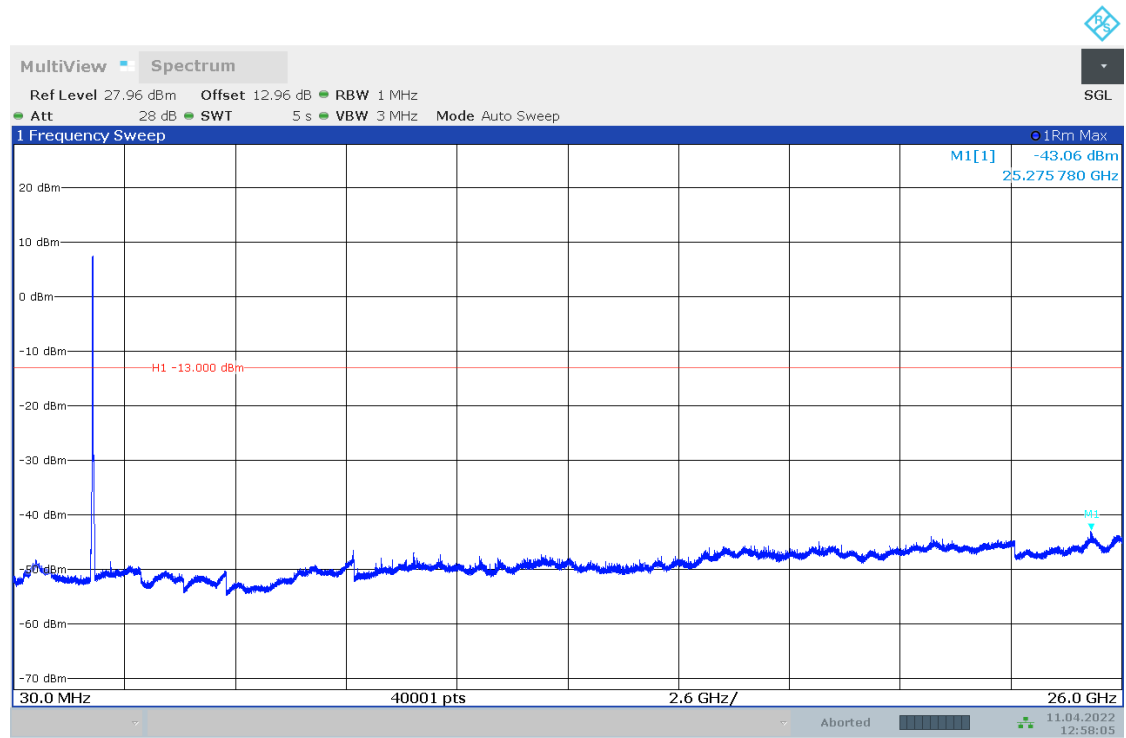




12:56:34 11.04.2022

6.2.49 TM2_20MHZ_MCH_RB100#0



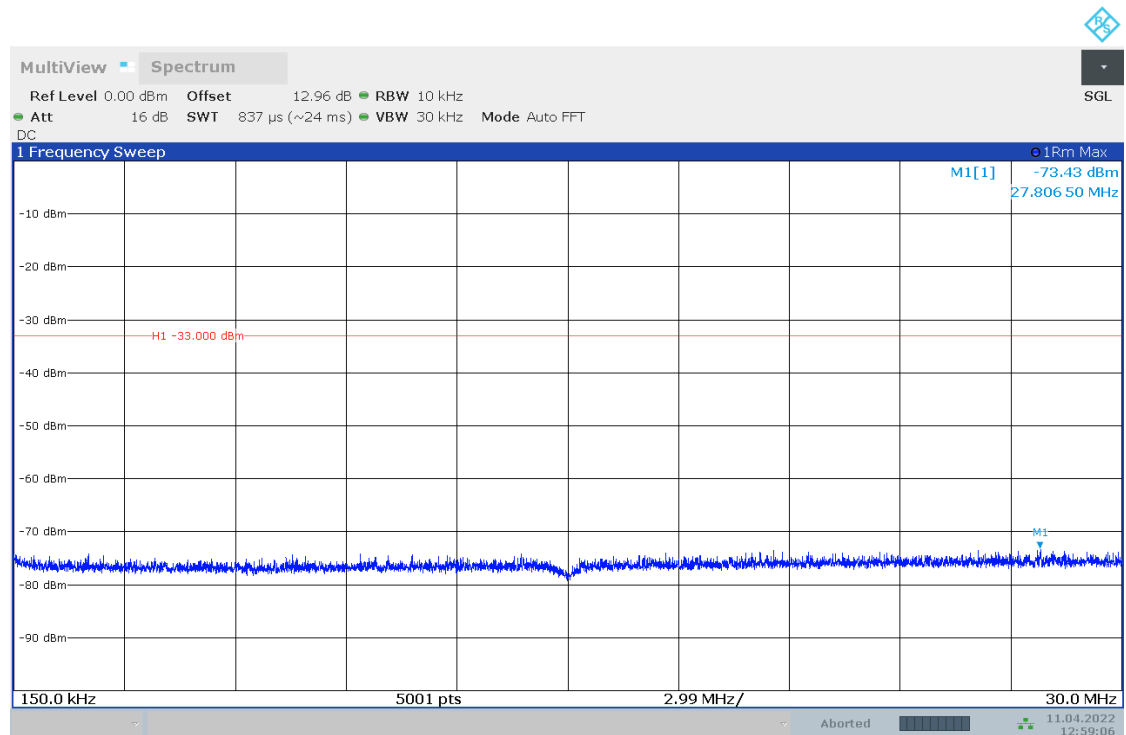


12:58:06 11.04.2022

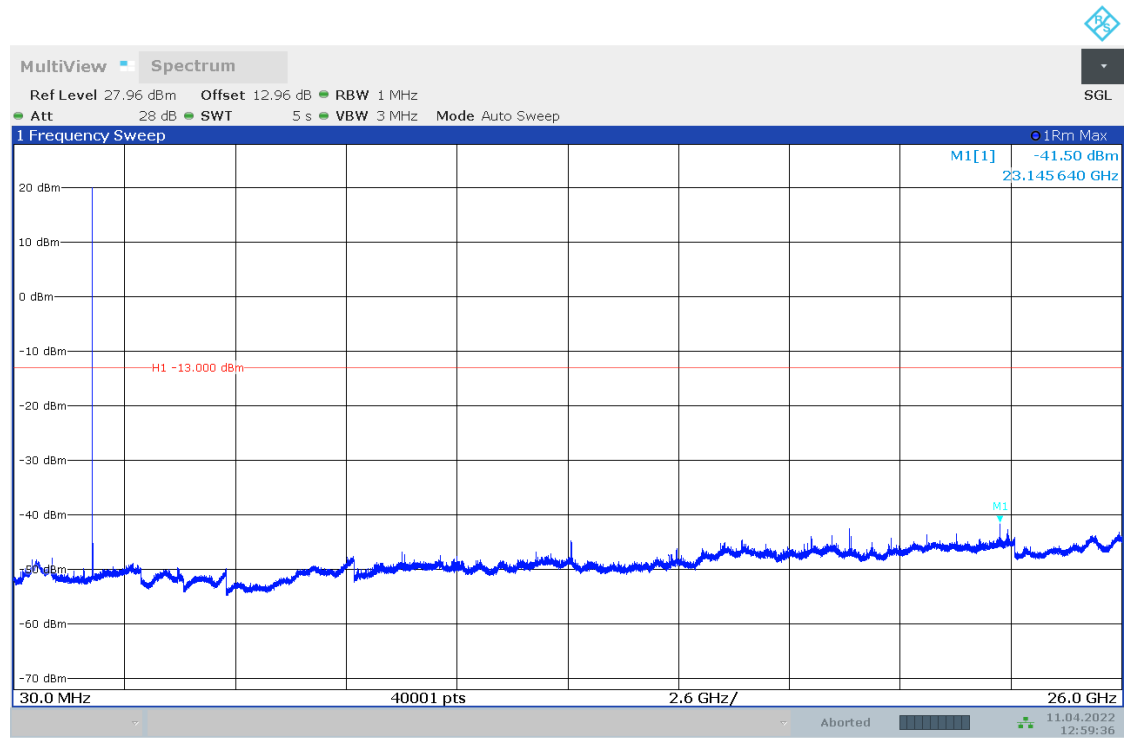
6.2.50 TM2_20MHZ_MCH_RB1#0



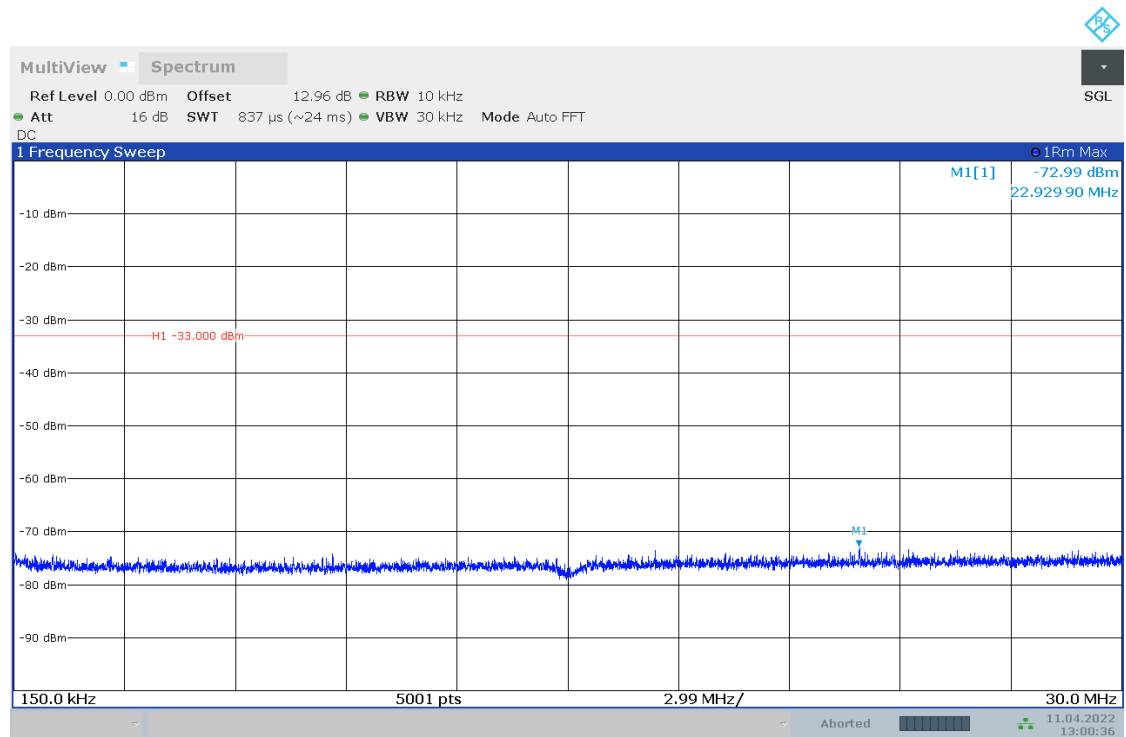
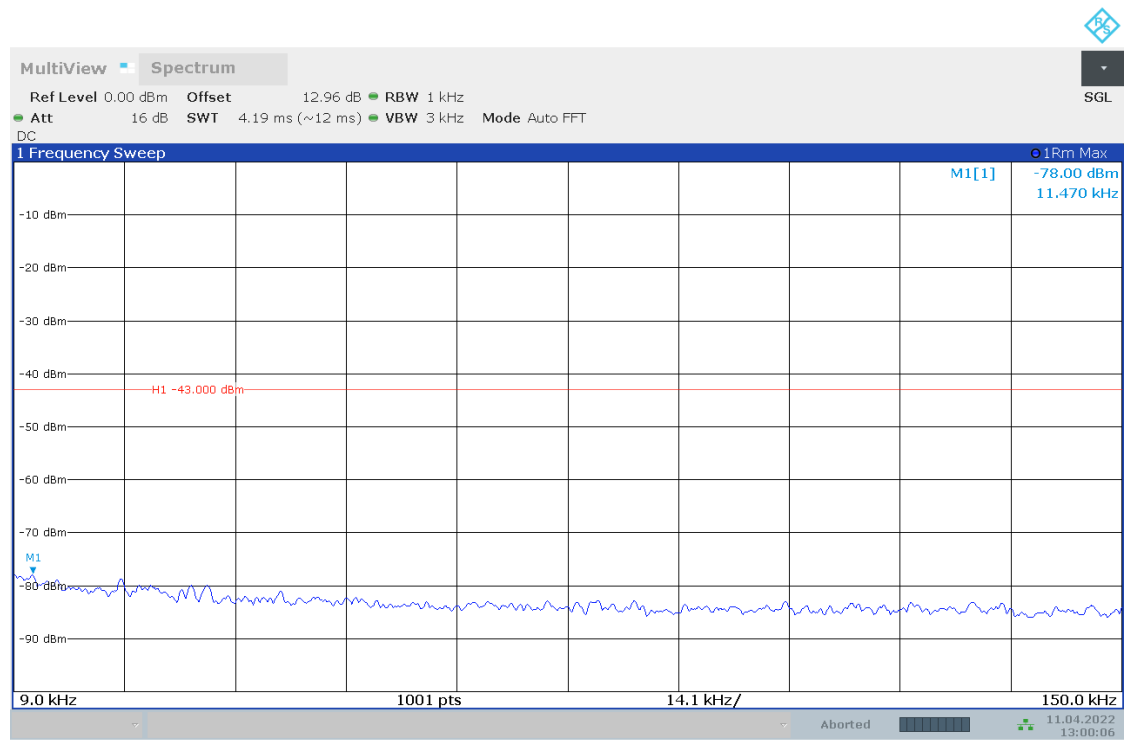
12:58:37 11.04.2022

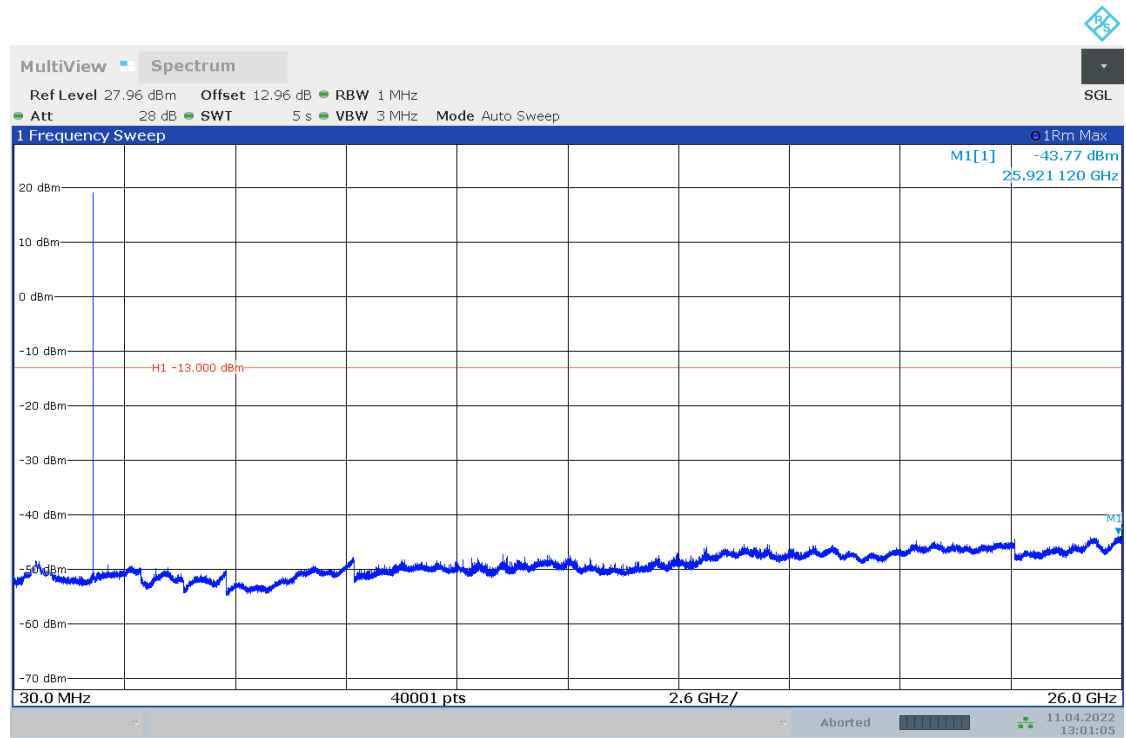


12:59:06 11.04.2022

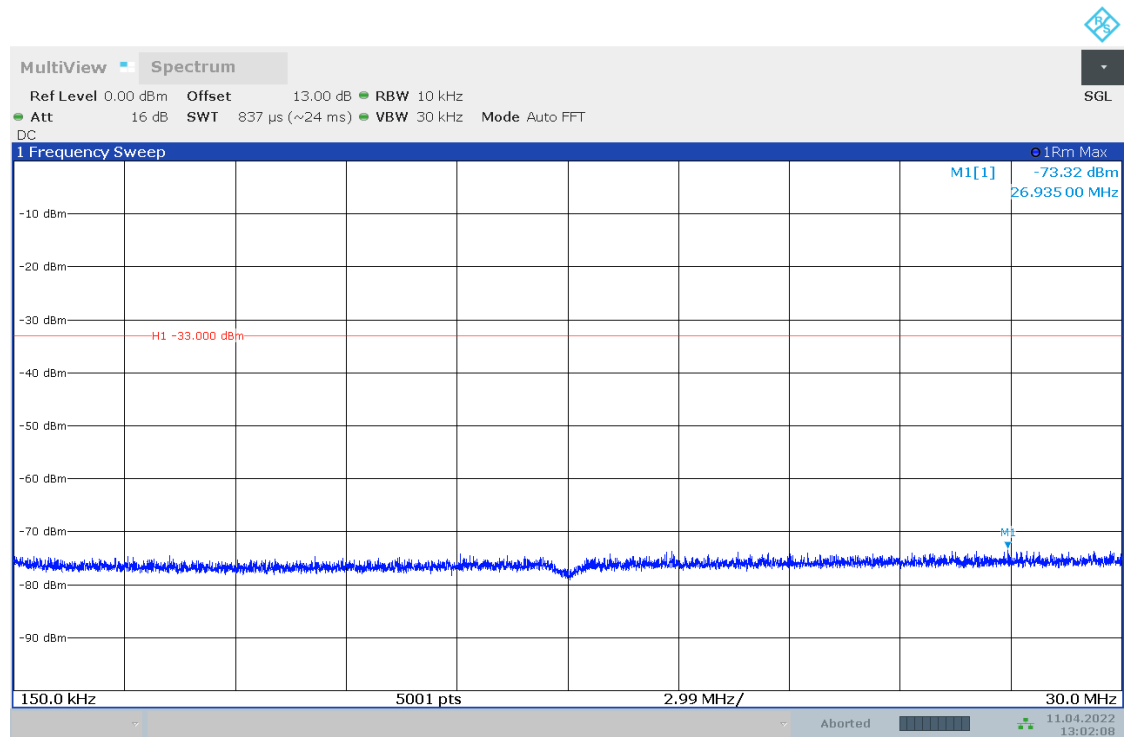
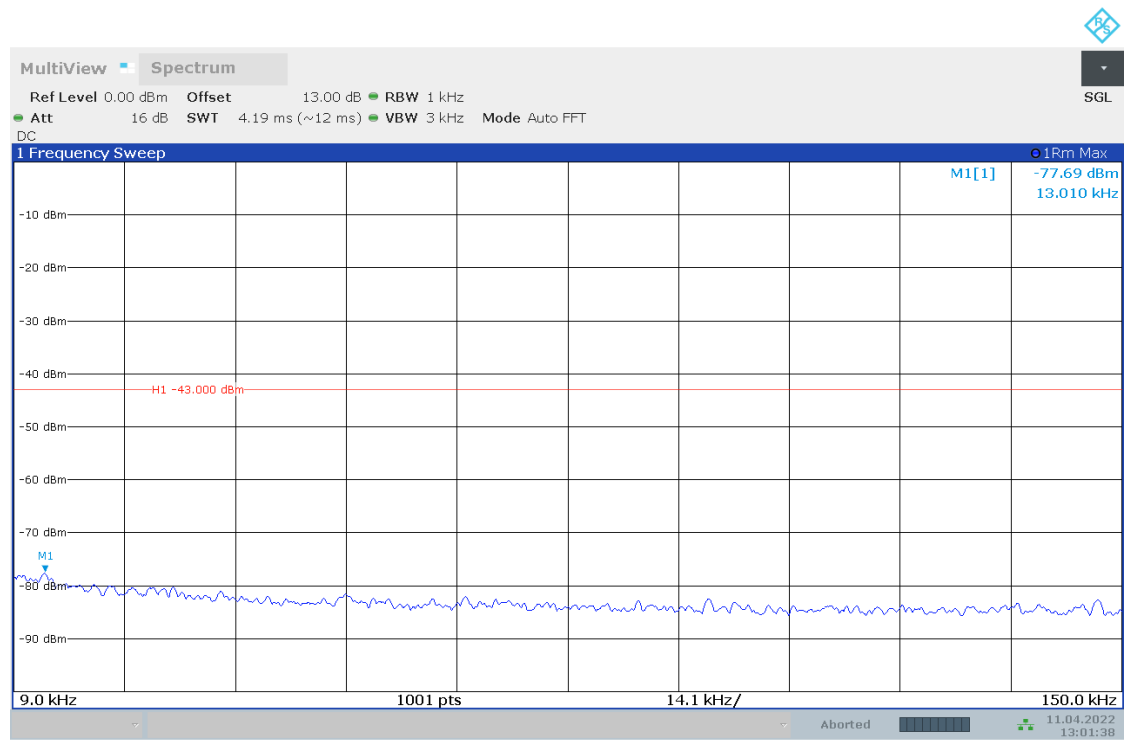


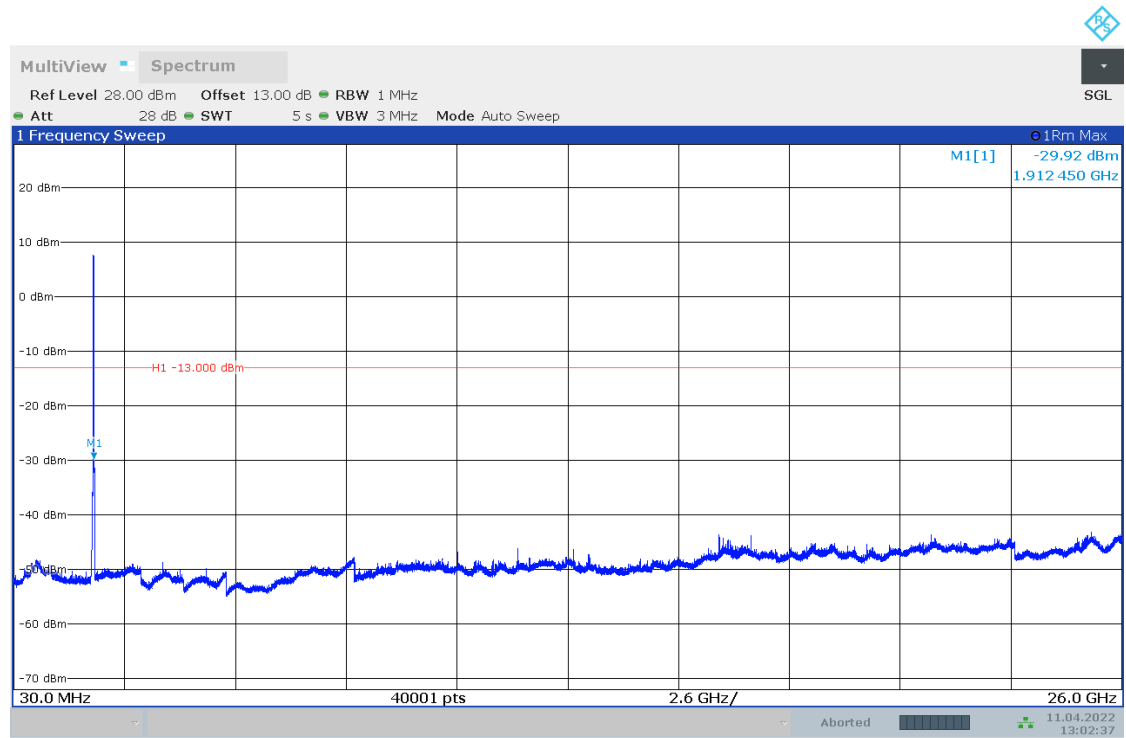
6.2.51 TM2_20MHZ_MCH_RB1#99





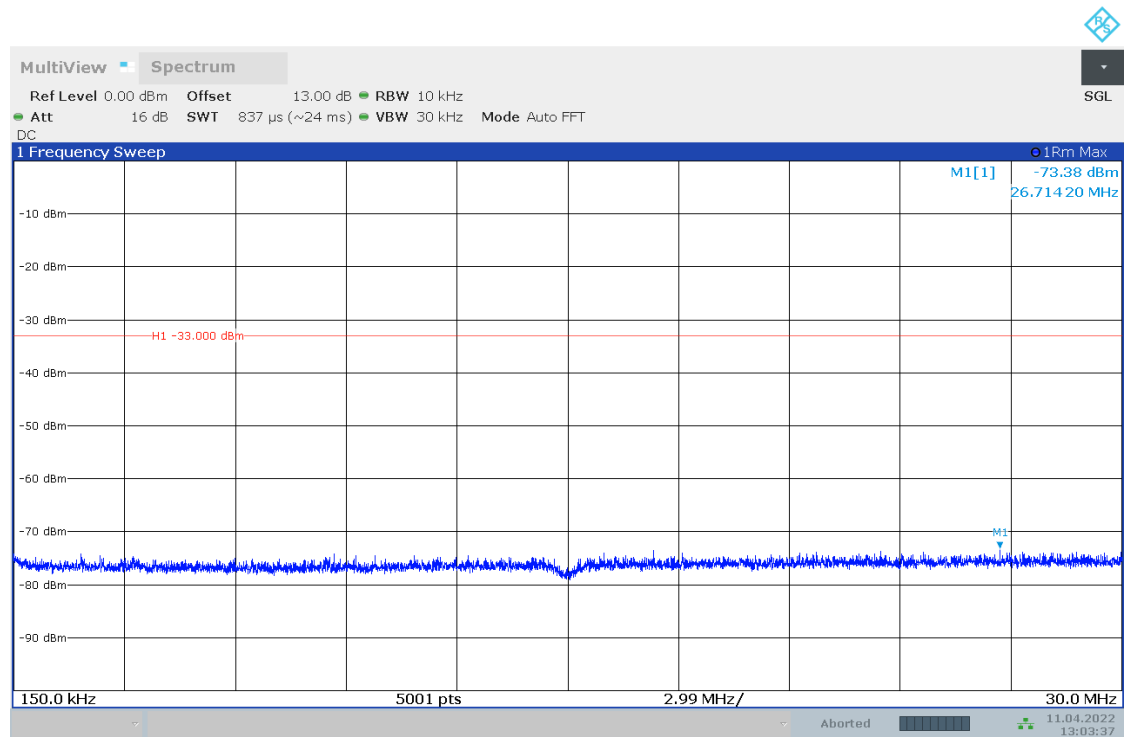
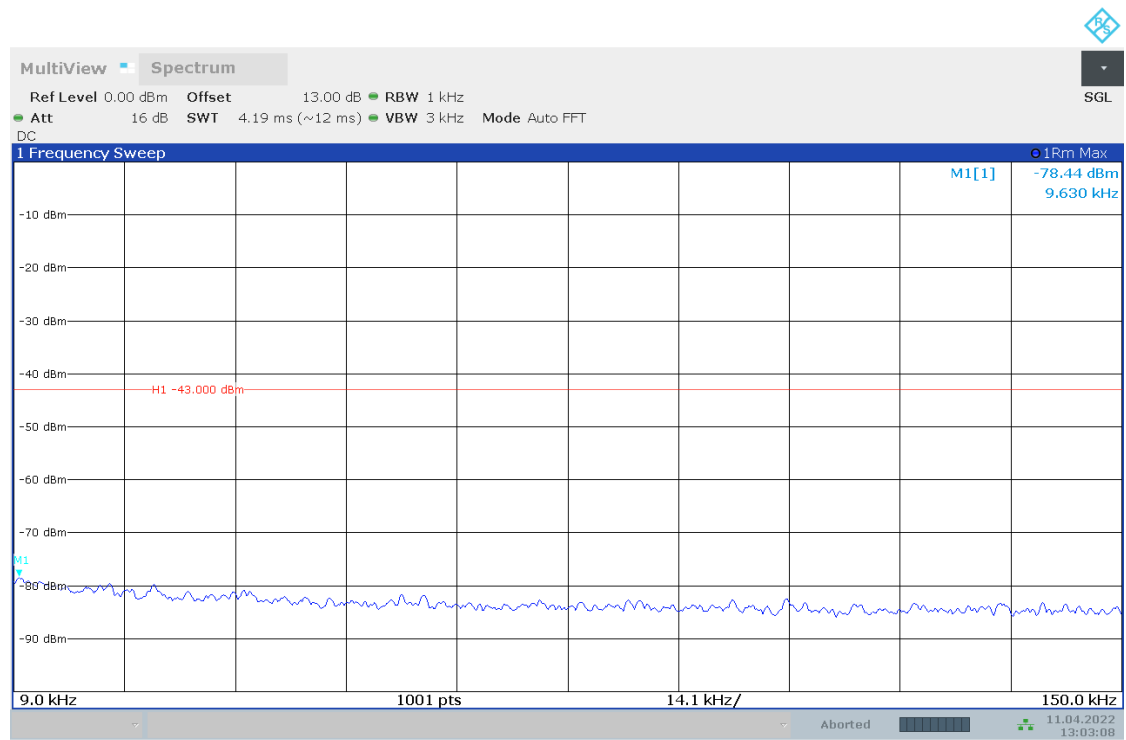
6.2.52 TM2_20MHZ_HCH_RB100#0

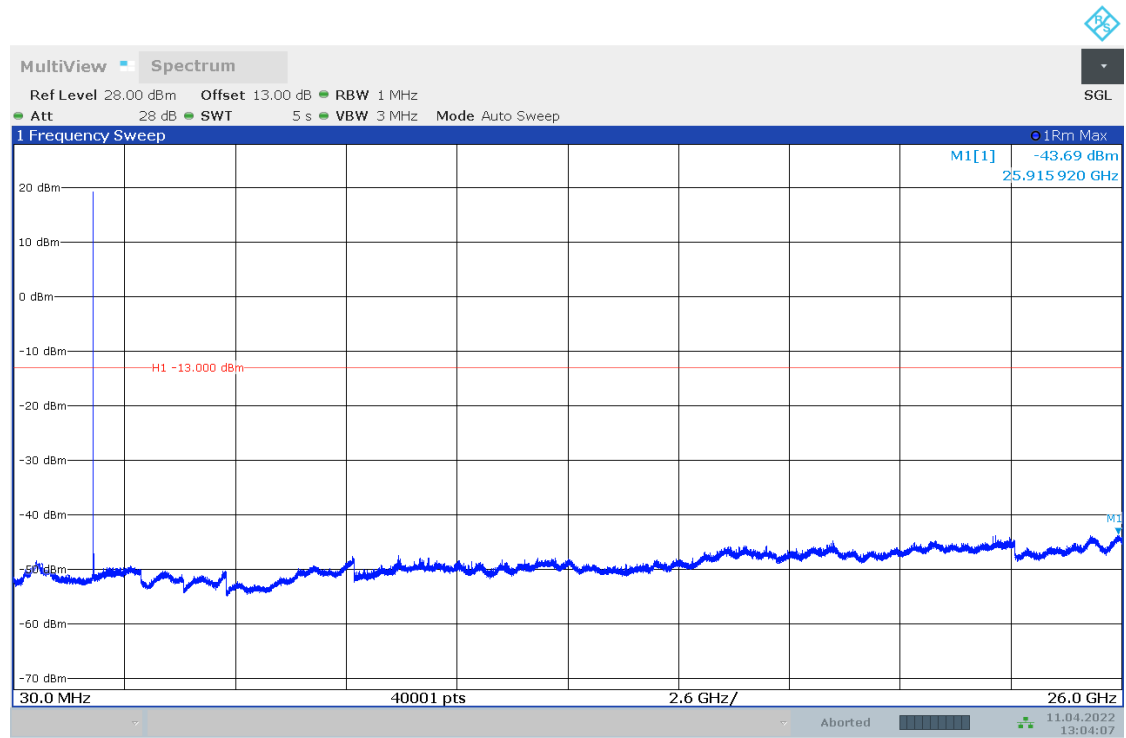




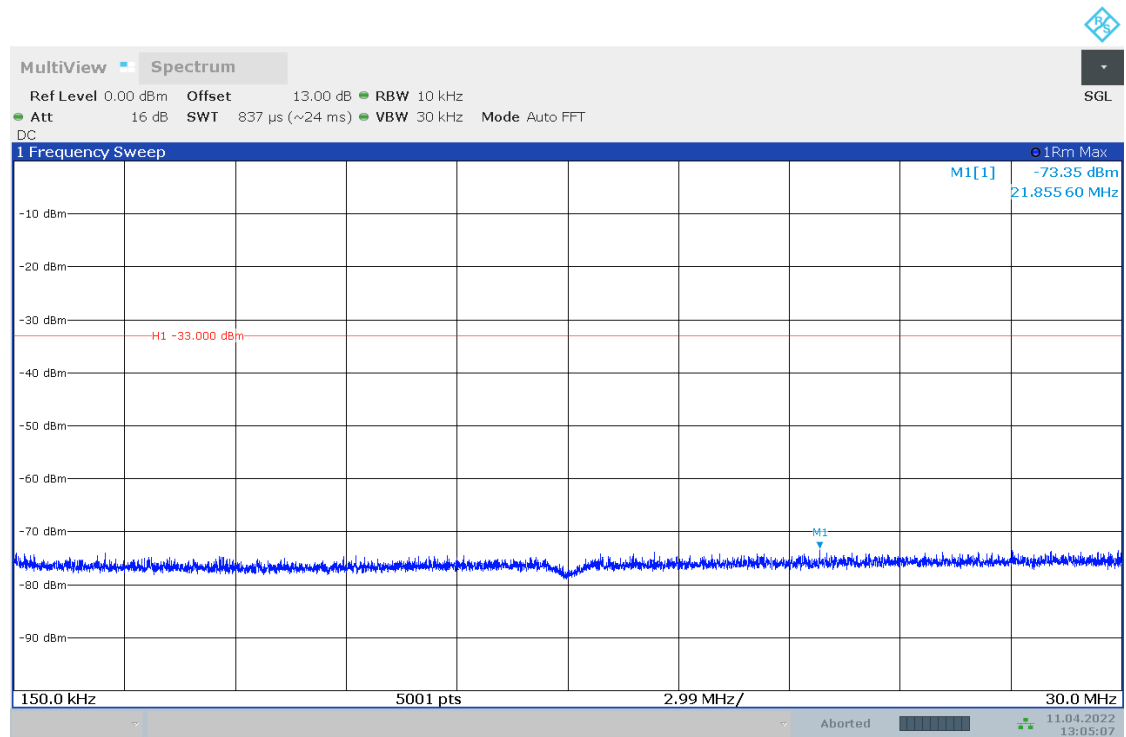
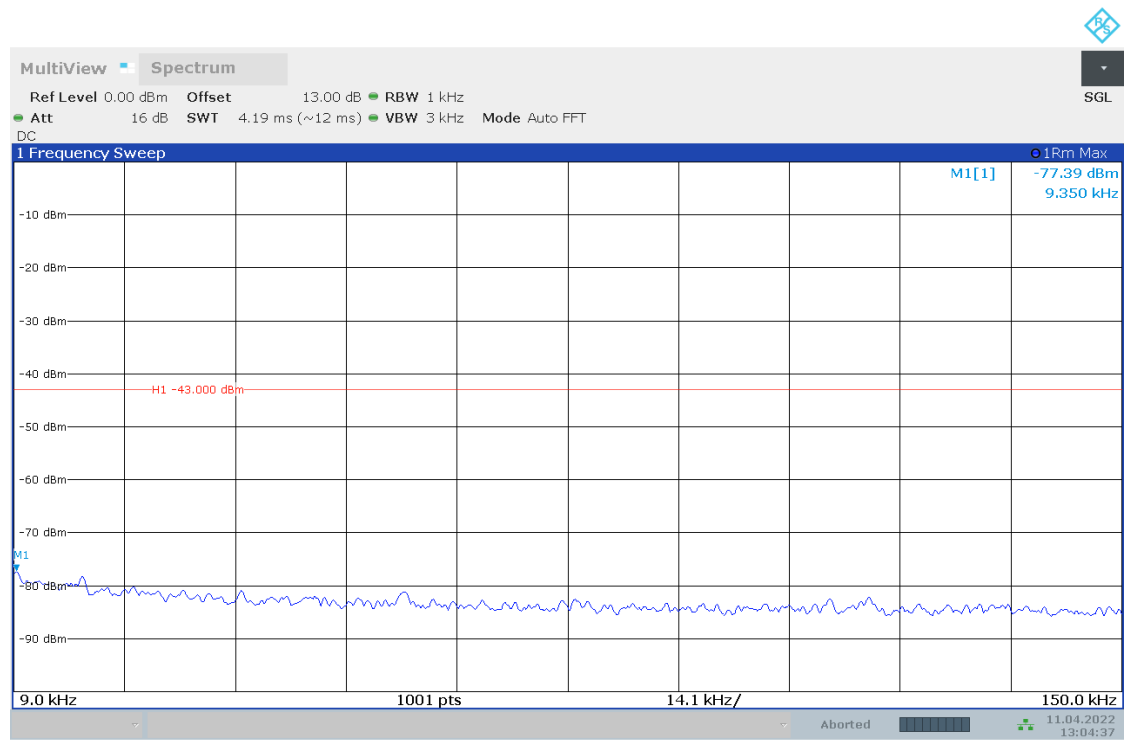
13:02:37 11.04.2022

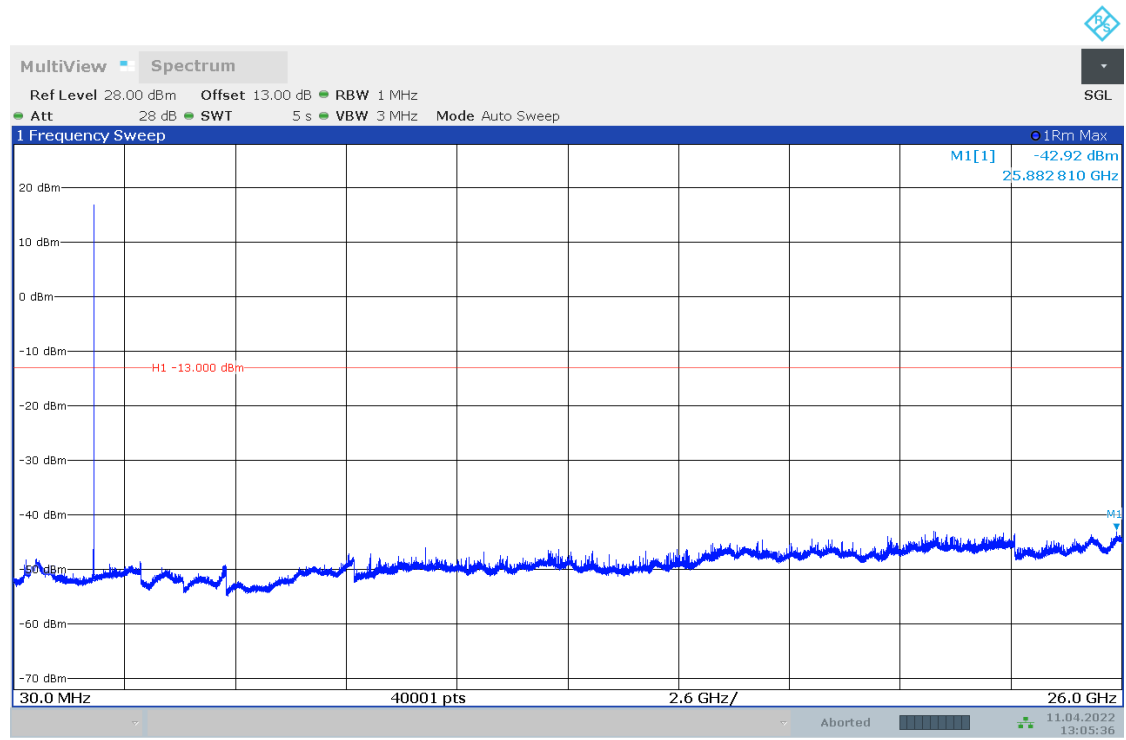
6.2.53 TM2_20MHZ_HCH_RB1#0





6.2.54 TM2_20MHZ_HCH_RB1#99





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	1.4	LCH	QPSK	TN	VH	10.95	0.01	PASS
			QPSK	TN	VN	33.60	0.02	PASS
			QPSK	TN	VL	-48.12	-0.03	PASS
		MCH	QPSK	TN	VH	-46.62	-0.02	PASS
			QPSK	TN	VN	-15.09	-0.01	PASS
			QPSK	TN	VL	-18.25	-0.01	PASS
		HCH	QPSK	TN	VH	26.42	0.01	PASS
			QPSK	TN	VN	6.86	0	PASS
			QPSK	TN	VL	5.89	0	PASS
	5	LCH	QPSK	TN	VH	1.88	0	PASS
			QPSK	TN	VN	0.89	0	PASS
			QPSK	TN	VL	-7.36	0	PASS
		MCH	QPSK	TN	VH	5.05	0	PASS
			QPSK	TN	VN	9.24	0	PASS
			QPSK	TN	VL	-2.13	0	PASS
		HCH	QPSK	TN	VH	-1.10	0	PASS
			QPSK	TN	VN	2.24	0	PASS
			QPSK	TN	VL	0.27	0	PASS
	20	LCH	QPSK	TN	VH	-1.96	0	PASS
			QPSK	TN	VN	-3.93	0	PASS
			QPSK	TN	VL	-2.26	0	PASS
		MCH	QPSK	TN	VH	0.68	0	PASS
			QPSK	TN	VN	-0.93	0	PASS
			QPSK	TN	VL	-1.93	0	PASS
		HCH	QPSK	TN	VH	-3.75	0	PASS
			QPSK	TN	VN	-0.55	0	PASS
			QPSK	TN	VL	1.46	0	PASS

Frequency Error vs. Voltage								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	1.4	LCH	16QAM	TN	VH	-34.49	-0.02	PASS
			16QAM	TN	VN	19.48	0.01	PASS
			16QAM	TN	VL	4.25	0	PASS
		MCH	16QAM	TN	VH	-0.66	0	PASS
			16QAM	TN	VN	4.78	0	PASS
			16QAM	TN	VL	3.56	0	PASS
		HCH	16QAM	TN	VH	11.67	0.01	PASS
			16QAM	TN	VN	25.91	0.01	PASS
			16QAM	TN	VL	8.70	0	PASS
	5	LCH	16QAM	TN	VH	-2.31	0	PASS
			16QAM	TN	VN	-0.89	0	PASS
			16QAM	TN	VL	-10.16	-0.01	PASS
		MCH	16QAM	TN	VH	3.19	0	PASS
			16QAM	TN	VN	-4.85	0	PASS
			16QAM	TN	VL	-10.07	-0.01	PASS
		HCH	16QAM	TN	VH	0.08	0	PASS
			16QAM	TN	VN	1.35	0	PASS
			16QAM	TN	VL	-5.70	0	PASS
	20	LCH	16QAM	TN	VH	-0.03	0	PASS
			16QAM	TN	VN	-1.19	0	PASS
			16QAM	TN	VL	-1.95	0	PASS
		MCH	16QAM	TN	VH	1.8	0	PASS
			16QAM	TN	VN	-3.14	0	PASS
			16QAM	TN	VL	-3.26	0	PASS
		HCH	16QAM	TN	VH	2.87	0	PASS
			16QAM	TN	VN	0.58	0	PASS
			16QAM	TN	VL	0.91	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	1.4	LCH	QPSK	VN	-30	135.34	0.07	PASS
			QPSK	VN	-20	23.56	0.01	PASS
			QPSK	VN	-10	-8.48	0	PASS
			QPSK	VN	0	40.38	0.02	PASS
			QPSK	VN	10	19.12	0.01	PASS
			QPSK	VN	20	39.41	0.02	PASS
			QPSK	VN	30	-5.08	0	PASS
			QPSK	VN	40	9.25	0	PASS
			QPSK	VN	50	-28.97	-0.02	PASS
		MCH	QPSK	VN	-30	-36.86	-0.02	PASS
			QPSK	VN	-20	-10.26	-0.01	PASS
			QPSK	VN	-10	-10.19	-0.01	PASS
			QPSK	VN	0	8.87	0	PASS
			QPSK	VN	10	-1.8	0	PASS
			QPSK	VN	20	10.03	0.01	PASS
			QPSK	VN	30	23.09	0.01	PASS
			QPSK	VN	40	-0.89	0	PASS
			QPSK	VN	50	111.76	0.06	PASS
		HCH	QPSK	VN	-30	-23.09	-0.01	PASS
			QPSK	VN	-20	11.8	0.01	PASS
			QPSK	VN	-10	-26.36	-0.01	PASS
			QPSK	VN	0	4.24	0	PASS
			QPSK	VN	10	8.47	0	PASS
			QPSK	VN	20	-1.63	0	PASS
			QPSK	VN	30	82.43	0.04	PASS
			QPSK	VN	40	3.51	0	PASS
			QPSK	VN	50	-2.62	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
TM1	5	LCH	QPSK	VN	-30	-7.96	0	PASS
			QPSK	VN	-20	7.12	0	PASS
			QPSK	VN	-10	1.14	0	PASS
			QPSK	VN	0	-3.59	0	PASS
			QPSK	VN	10	-0.98	0	PASS
			QPSK	VN	20	1.36	0	PASS
			QPSK	VN	30	-0.13	0	PASS
			QPSK	VN	40	-3.12	0	PASS
			QPSK	VN	50	-5.06	0	PASS
		MCH	QPSK	VN	-30	-7.08	0	PASS
			QPSK	VN	-20	0.6	0	PASS
			QPSK	VN	-10	-2.57	0	PASS
			QPSK	VN	0	2.55	0	PASS
			QPSK	VN	10	-2.03	0	PASS
			QPSK	VN	20	4.49	0	PASS
			QPSK	VN	30	-10.72	-0.01	PASS
			QPSK	VN	40	1.2	0	PASS
			QPSK	VN	50	-4.44	0	PASS
		HCH	QPSK	VN	-30	-2.56	0	PASS
			QPSK	VN	-20	4.25	0	PASS
			QPSK	VN	-10	-7.06	0	PASS
			QPSK	VN	0	10.56	0.01	PASS
			QPSK	VN	10	0.87	0	PASS
			QPSK	VN	20	-2.14	0	PASS
			QPSK	VN	30	1.83	0	PASS
			QPSK	VN	40	6.95	0	PASS
			QPSK	VN	50	-3.42	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
TM1	20	LCH	QPSK	VN	-30	-1.88	0	PASS
			QPSK	VN	-20	-4.14	0	PASS
			QPSK	VN	-10	0.79	0	PASS
			QPSK	VN	0	-3.5	0	PASS
			QPSK	VN	10	1.76	0	PASS
			QPSK	VN	20	-1.74	0	PASS
			QPSK	VN	30	-3.27	0	PASS
			QPSK	VN	40	1.14	0	PASS
			QPSK	VN	50	-3.11	0	PASS
		MCH	QPSK	VN	-30	-1.35	0	PASS
			QPSK	VN	-20	-0.22	0	PASS
			QPSK	VN	-10	0.77	0	PASS
			QPSK	VN	0	0.21	0	PASS
			QPSK	VN	10	3.51	0	PASS
			QPSK	VN	20	4.21	0	PASS
			QPSK	VN	30	-0.01	0	PASS
			QPSK	VN	40	-2.69	0	PASS
			QPSK	VN	50	-2.21	0	PASS
		HCH	QPSK	VN	-30	2.24	0	PASS
			QPSK	VN	-20	-0.49	0	PASS
			QPSK	VN	-10	0.21	0	PASS
			QPSK	VN	0	-5.59	0	PASS
			QPSK	VN	10	-0.89	0	PASS
			QPSK	VN	20	-2.06	0	PASS
			QPSK	VN	30	-1.81	0	PASS
			QPSK	VN	40	-3.9	0	PASS
			QPSK	VN	50	2.23	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	1.4	LCH	16QAM	VN	-30	-9.55	-0.01	PASS
			16QAM	VN	-20	32.76	0.02	PASS
			16QAM	VN	-10	-20.67	-0.01	PASS
			16QAM	VN	0	-126.65	-0.07	PASS
			16QAM	VN	10	-16.06	-0.01	PASS
			16QAM	VN	20	-17.15	-0.01	PASS
			16QAM	VN	30	-32.83	-0.02	PASS
			16QAM	VN	40	-11.01	-0.01	PASS
			16QAM	VN	50	92.72	0.05	PASS
		MCH	16QAM	VN	-30	38.71	0.02	PASS
			16QAM	VN	-20	-14.22	-0.01	PASS
			16QAM	VN	-10	12.9	0.01	PASS
			16QAM	VN	0	20.57	0.01	PASS
			16QAM	VN	10	0.47	0	PASS
			16QAM	VN	20	5.77	0	PASS
			16QAM	VN	30	28.31	0.02	PASS
			16QAM	VN	40	0.16	0	PASS
			16QAM	VN	50	9.22	0	PASS
		HCH	16QAM	VN	-30	4.81	0	PASS
			16QAM	VN	-20	-7.46	0	PASS
			16QAM	VN	-10	-22.19	-0.01	PASS
			16QAM	VN	0	13.63	0.01	PASS
			16QAM	VN	10	19.54	0.01	PASS
			16QAM	VN	20	116.61	0.06	PASS
			16QAM	VN	30	14.64	0.01	PASS
			16QAM	VN	40	-12.24	-0.01	PASS
			16QAM	VN	50	24.18	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	-6.51	0	PASS
			16QAM	VN	-20	11.35	0.01	PASS
			16QAM	VN	-10	4.44	0	PASS
			16QAM	VN	0	2.89	0	PASS
			16QAM	VN	10	-5.75	0	PASS
			16QAM	VN	20	1.32	0	PASS
			16QAM	VN	30	-8.37	0	PASS
			16QAM	VN	40	-5.64	0	PASS
			16QAM	VN	50	-2.9	0	PASS
		MCH	16QAM	VN	-30	10.64	0.01	PASS
			16QAM	VN	-20	10.21	0.01	PASS
			16QAM	VN	-10	-0.06	0	PASS
			16QAM	VN	0	4.06	0	PASS
			16QAM	VN	10	-3.71	0	PASS
			16QAM	VN	20	6.58	0	PASS
			16QAM	VN	30	0.19	0	PASS
			16QAM	VN	40	-1.46	0	PASS
			16QAM	VN	50	19.24	0.01	PASS
		HCH	16QAM	VN	-30	7.88	0	PASS
			16QAM	VN	-20	-4.5	0	PASS
			16QAM	VN	-10	1.35	0	PASS
			16QAM	VN	0	-2.51	0	PASS
			16QAM	VN	10	-3.95	0	PASS
			16QAM	VN	20	0.01	0	PASS
			16QAM	VN	30	3.72	0	PASS
			16QAM	VN	40	7.2	0	PASS
			16QAM	VN	50	11.36	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	20	LCH	16QAM	VN	-30	0.82	0	PASS
			16QAM	VN	-20	-2.95	0	PASS
			16QAM	VN	-10	3.36	0	PASS
			16QAM	VN	0	1.11	0	PASS
			16QAM	VN	10	-2.36	0	PASS
			16QAM	VN	20	-2.52	0	PASS
			16QAM	VN	30	1.15	0	PASS
			16QAM	VN	40	1.09	0	PASS
			16QAM	VN	50	-0.4	0	PASS
		MCH	16QAM	VN	-30	-1.38	0	PASS
			16QAM	VN	-20	3.87	0	PASS
			16QAM	VN	-10	0.05	0	PASS
			16QAM	VN	0	-0.3	0	PASS
			16QAM	VN	10	1.49	0	PASS
			16QAM	VN	20	-2.33	0	PASS
			16QAM	VN	30	1.52	0	PASS
			16QAM	VN	40	-2.47	0	PASS
			16QAM	VN	50	2.91	0	PASS
		HCH	16QAM	VN	-30	2.19	0	PASS
			16QAM	VN	-20	1.04	0	PASS
			16QAM	VN	-10	-1.5	0	PASS
			16QAM	VN	0	0.21	0	PASS
			16QAM	VN	10	1.94	0	PASS
			16QAM	VN	20	-3.74	0	PASS
			16QAM	VN	30	-3.47	0	PASS
			16QAM	VN	40	-1.35	0	PASS
			16QAM	VN	50	-3.23	0	PASS

End of Test Report