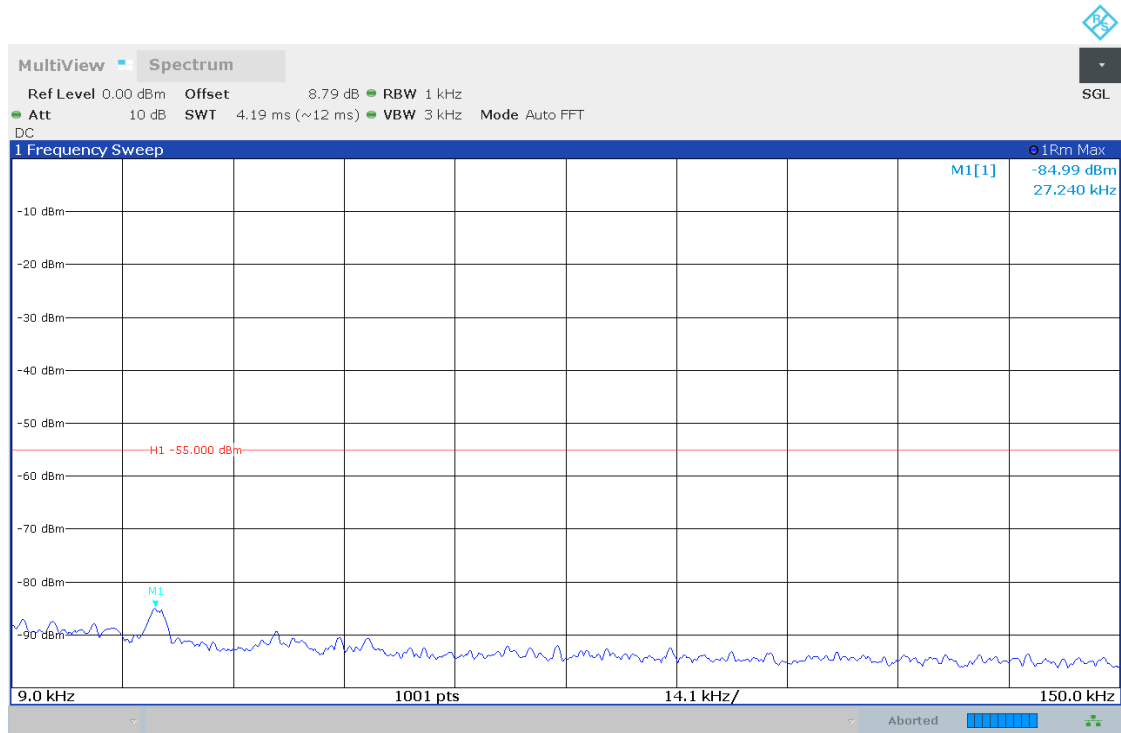
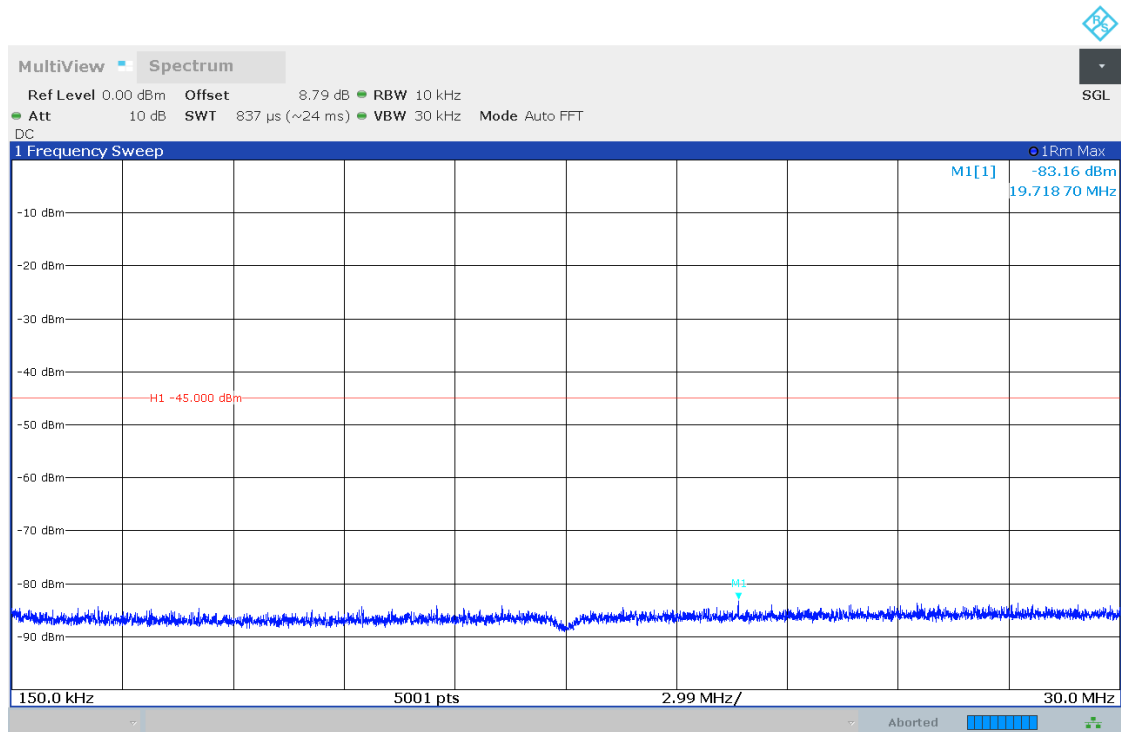


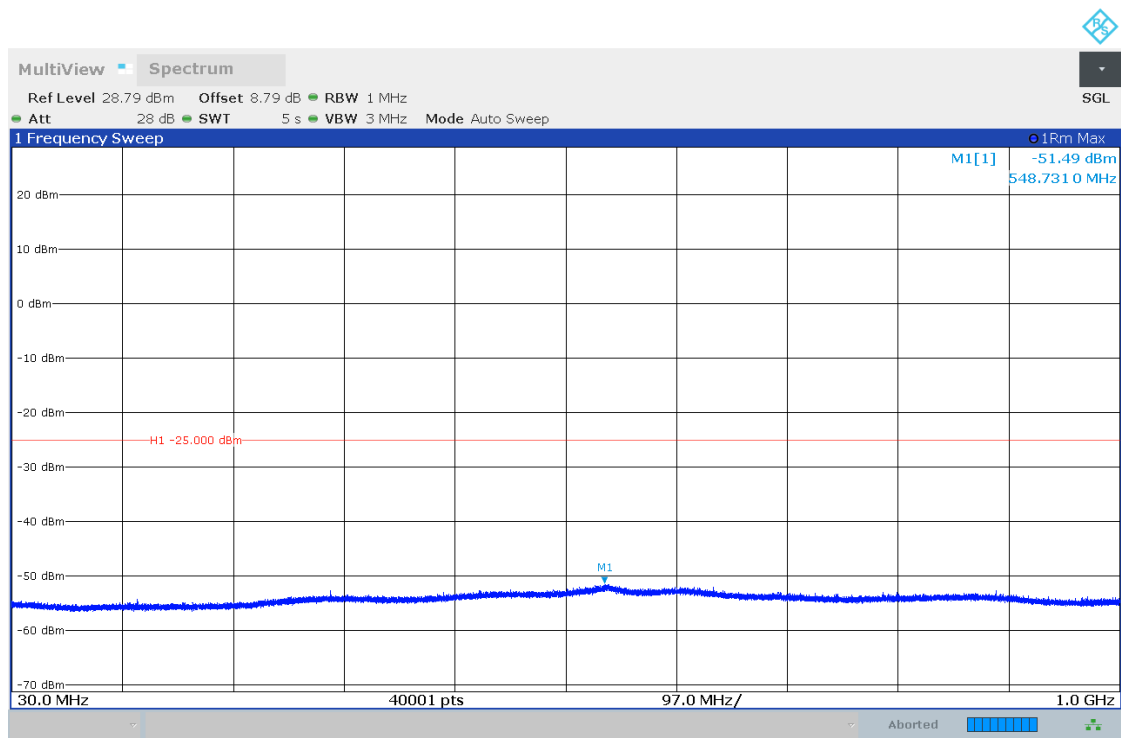
TM1_5MHz_MCH_RB25#0



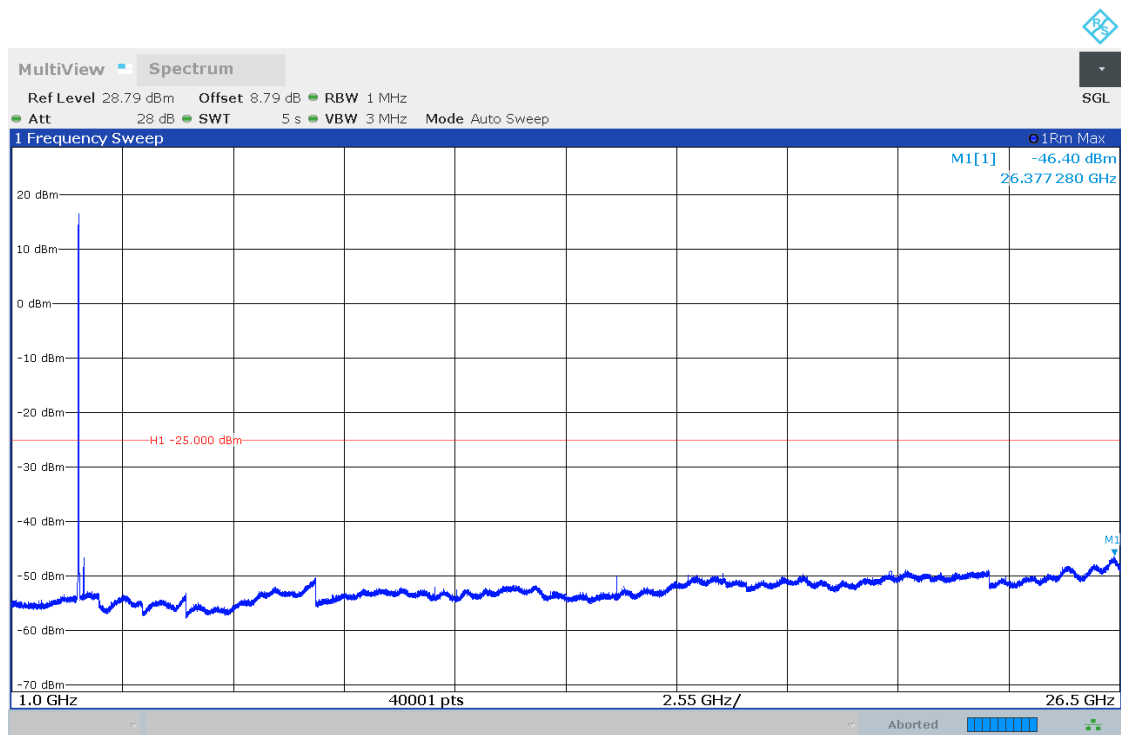
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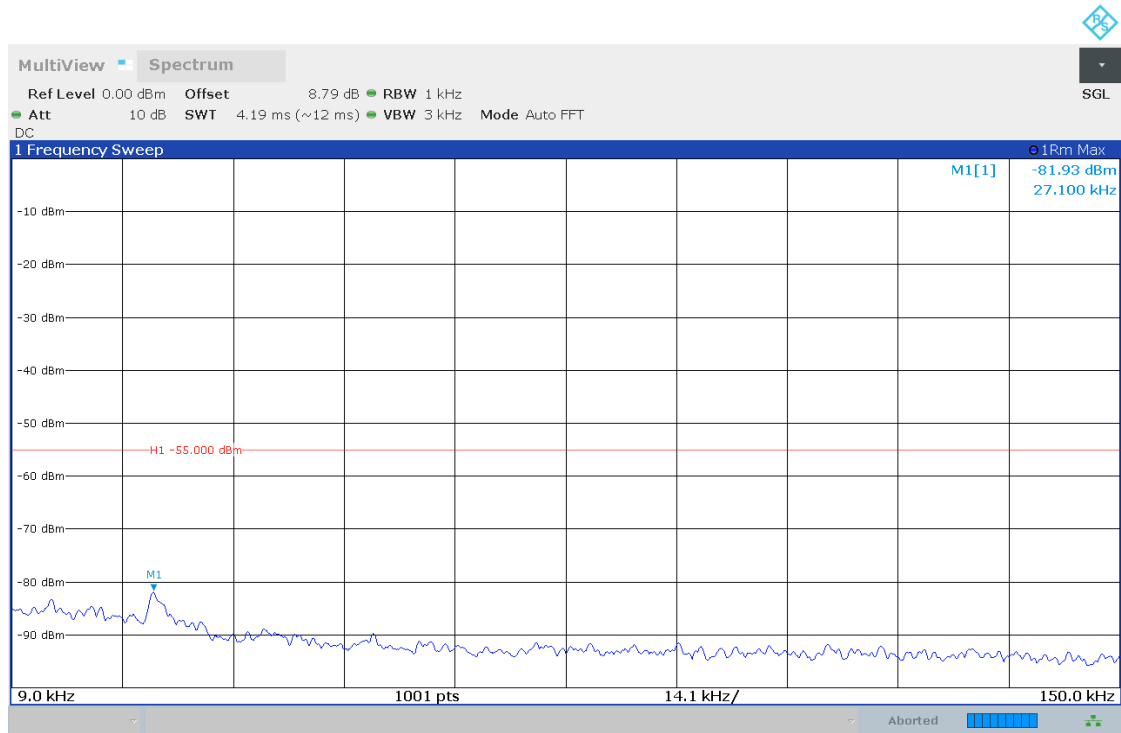


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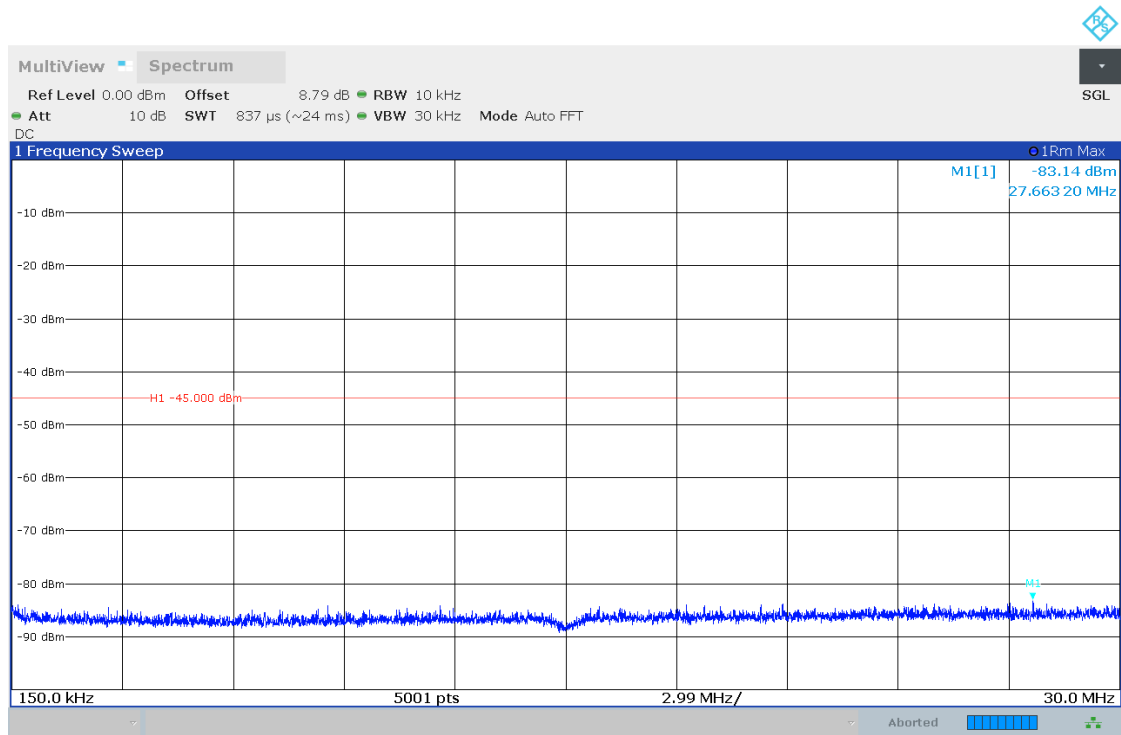


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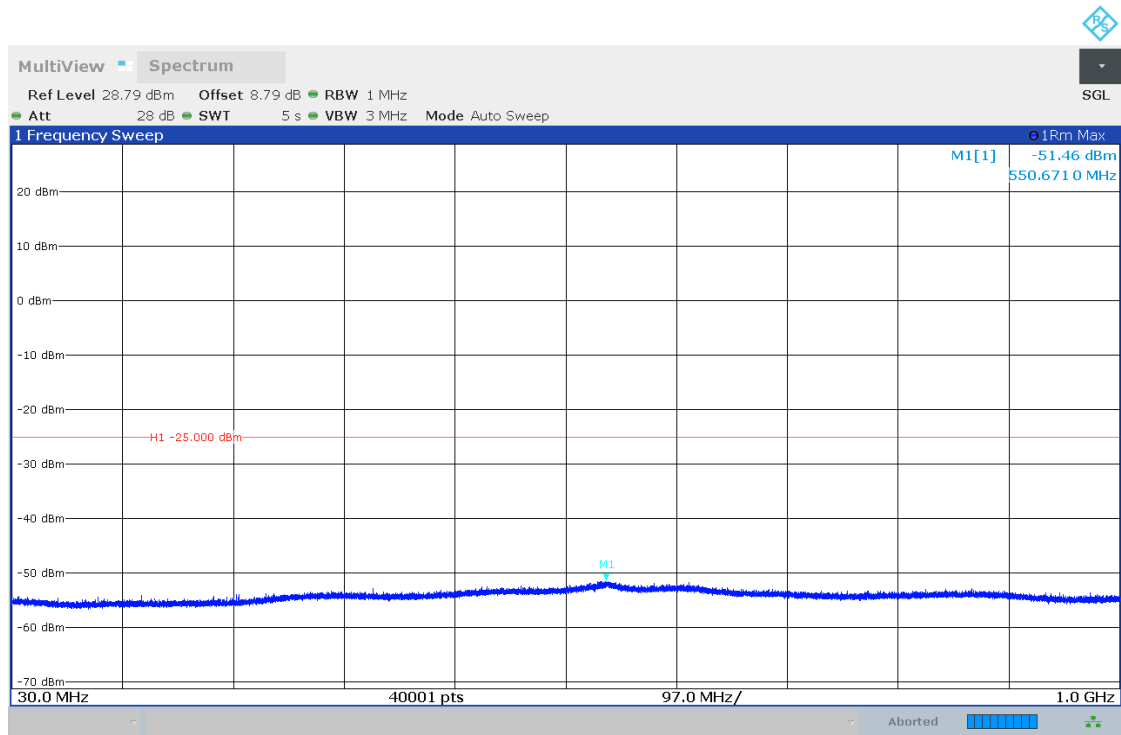
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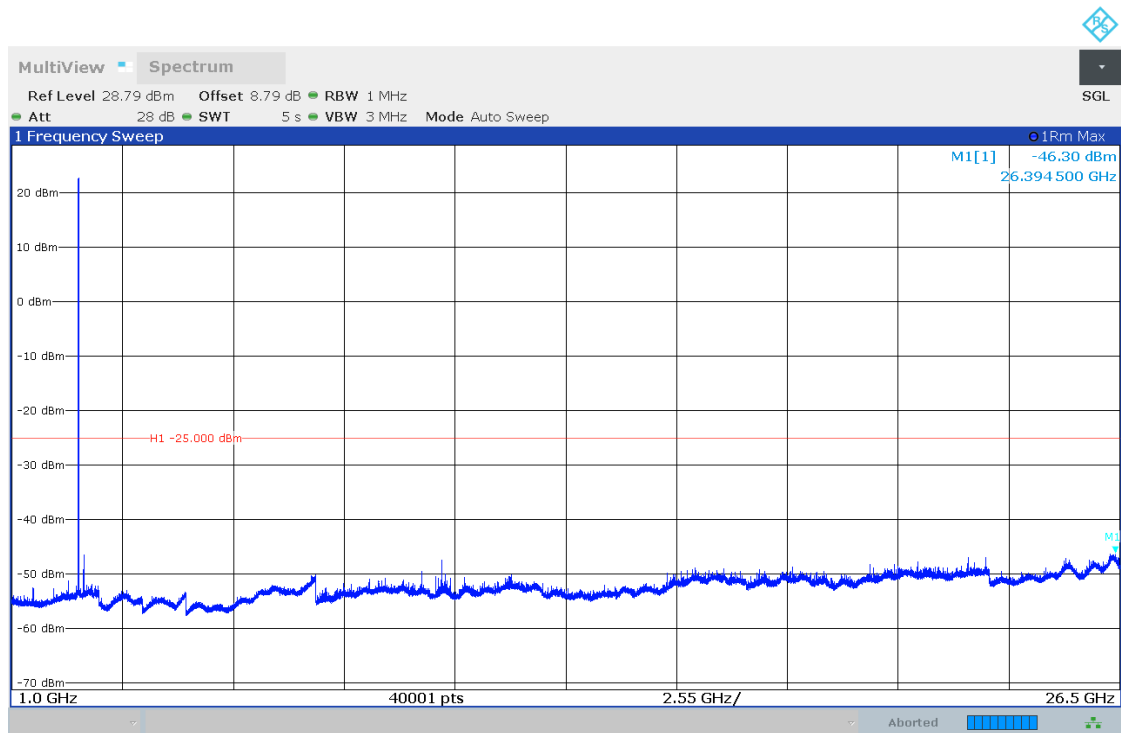
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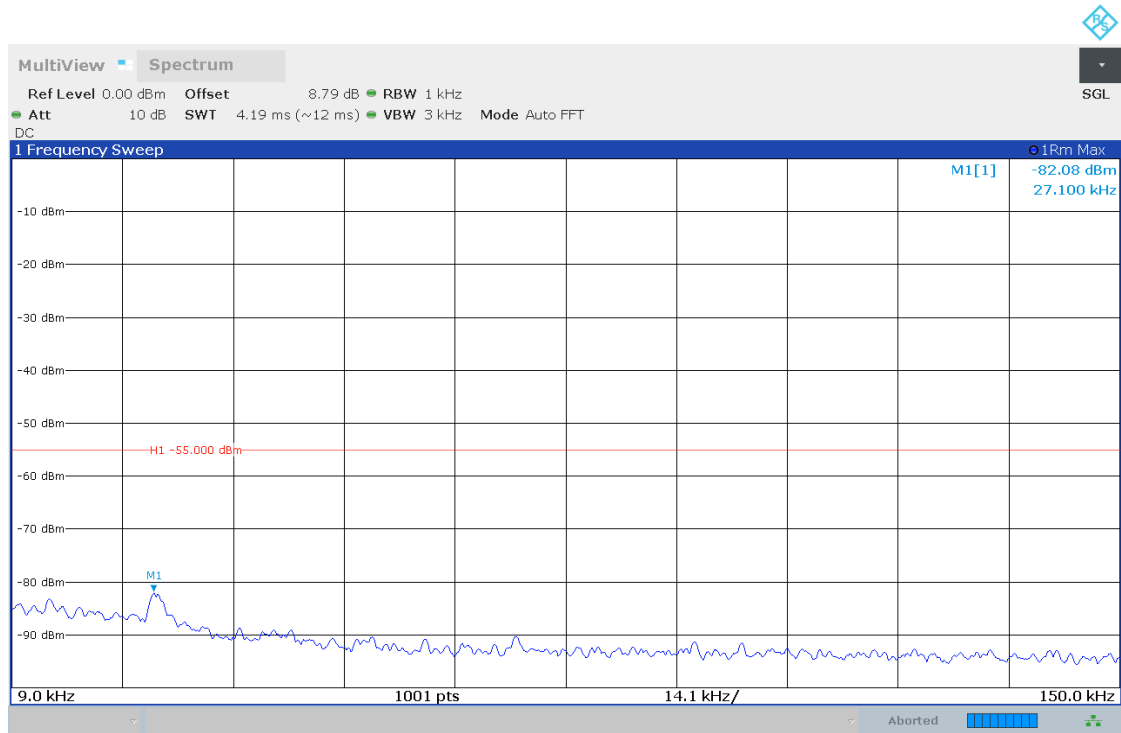


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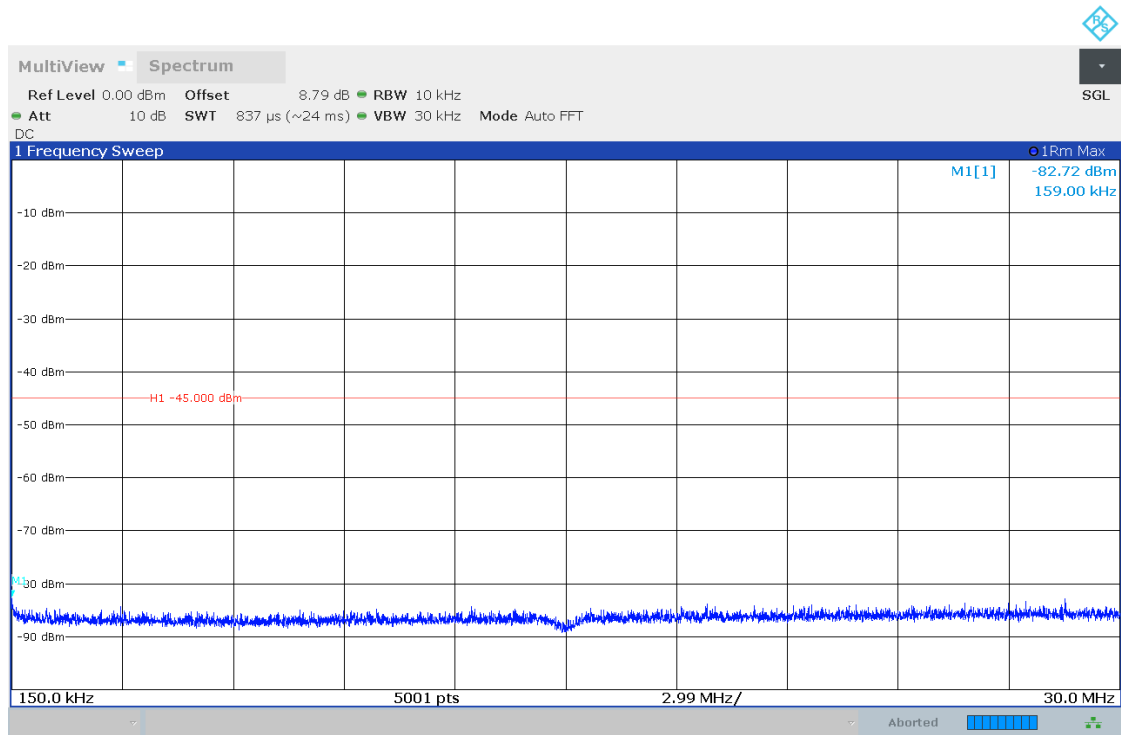


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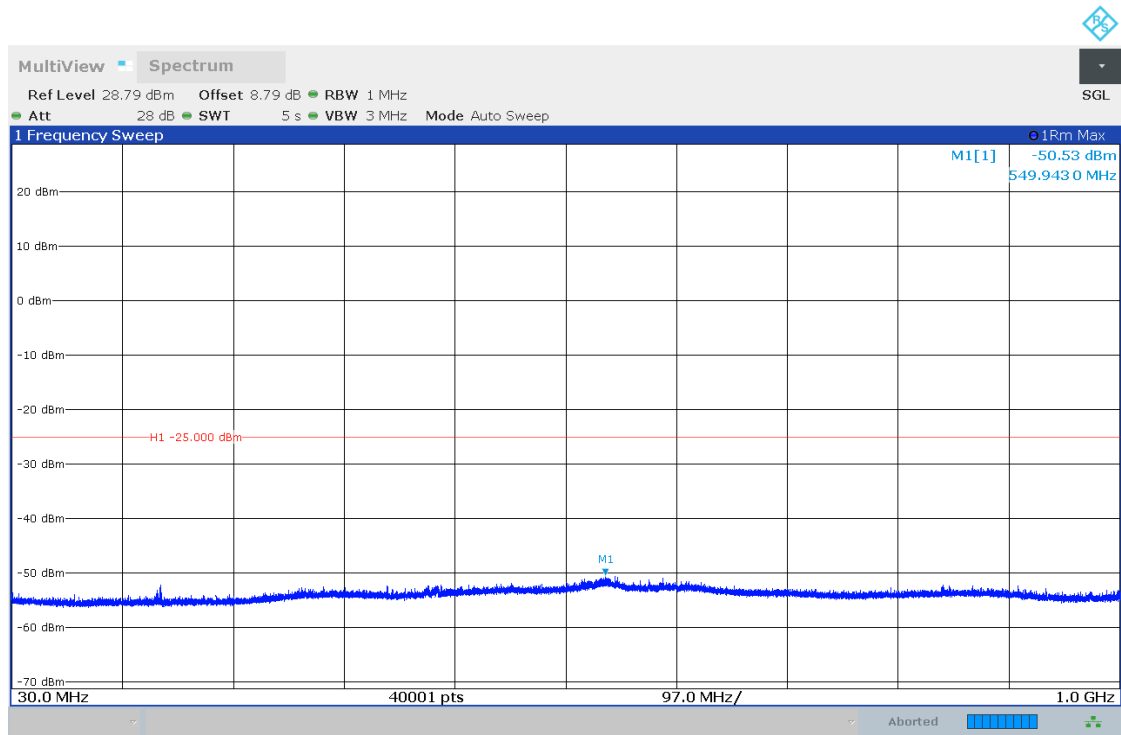
TM1_5MHz_MCH_RB1#24



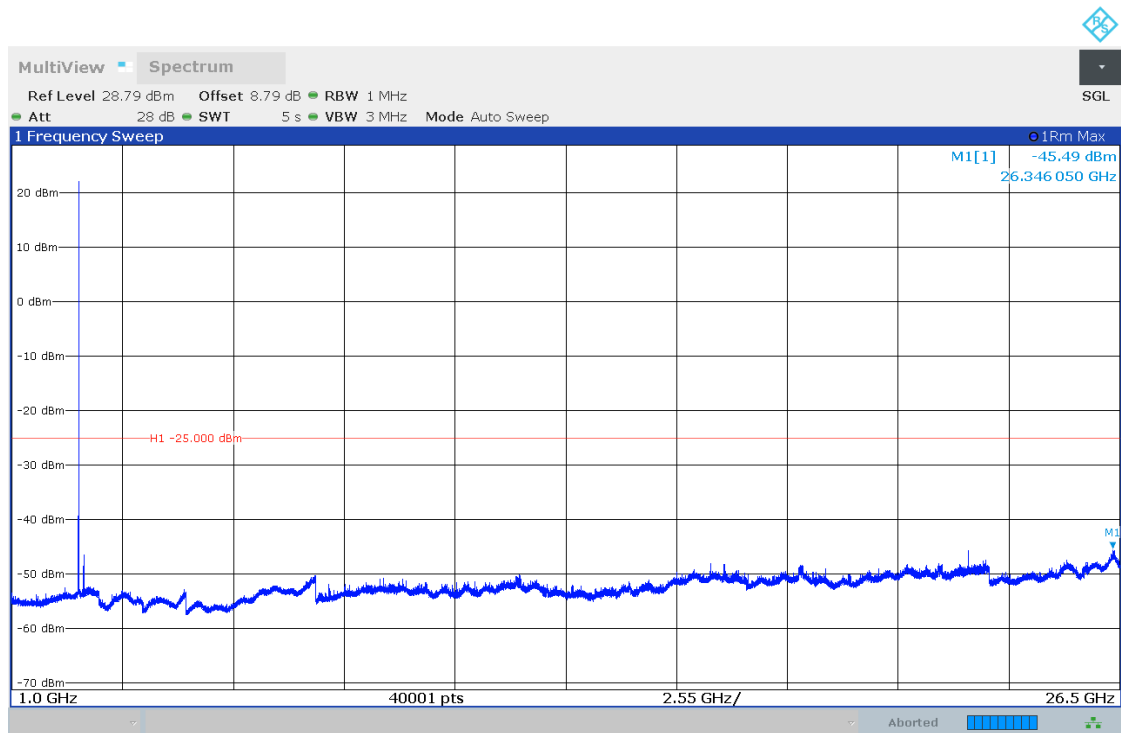
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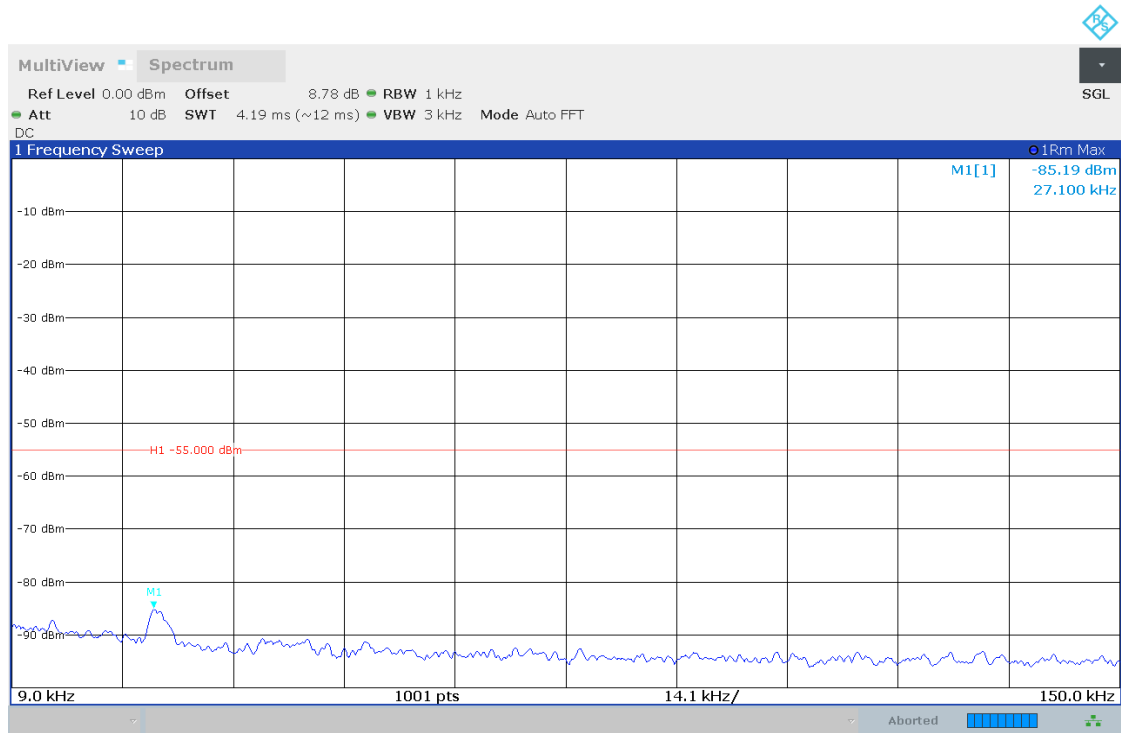


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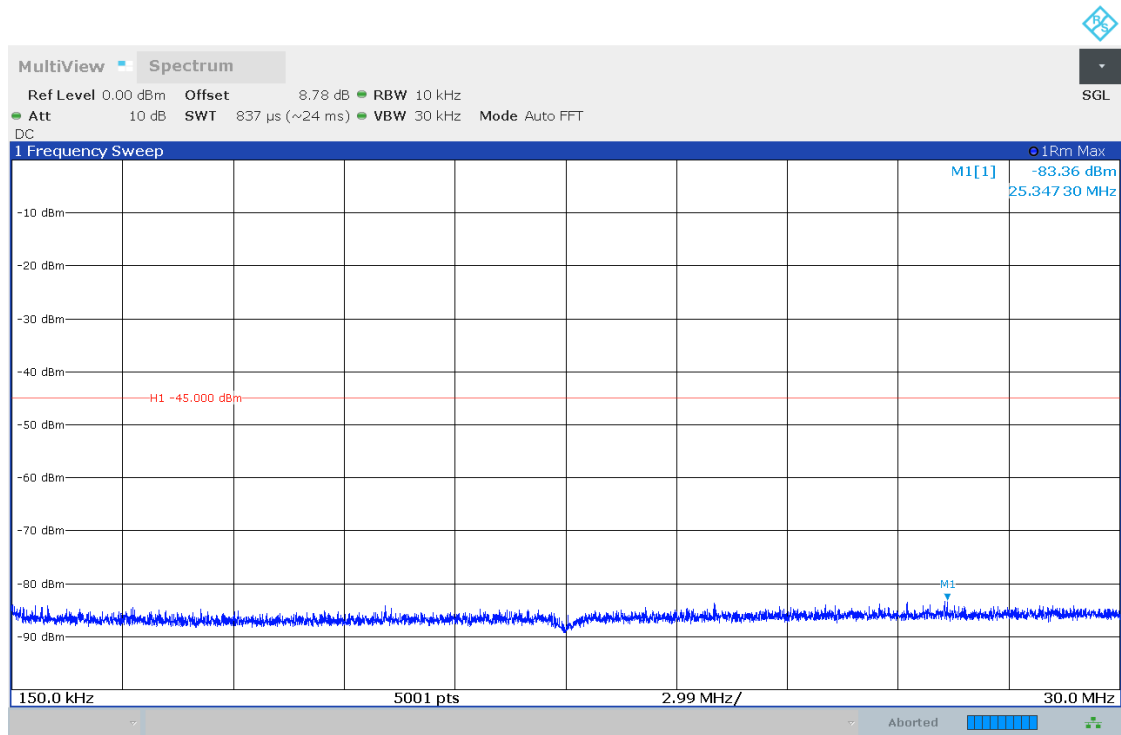


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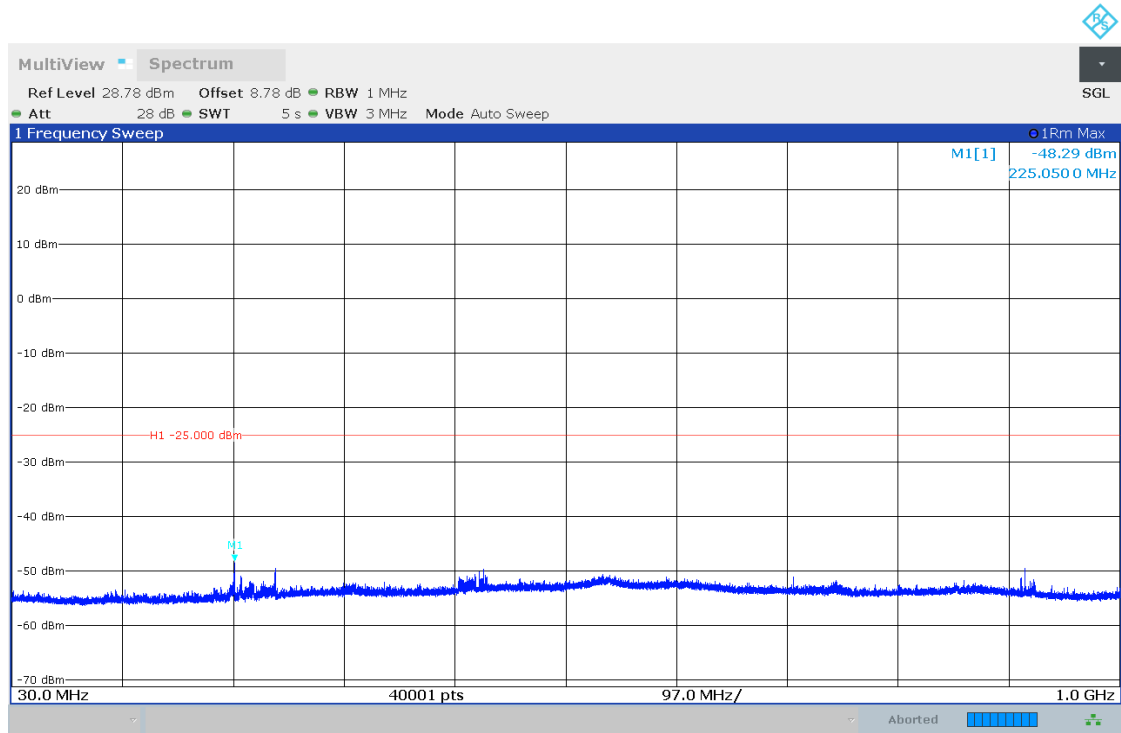
TM1_5MHz_HCH_RB25#0



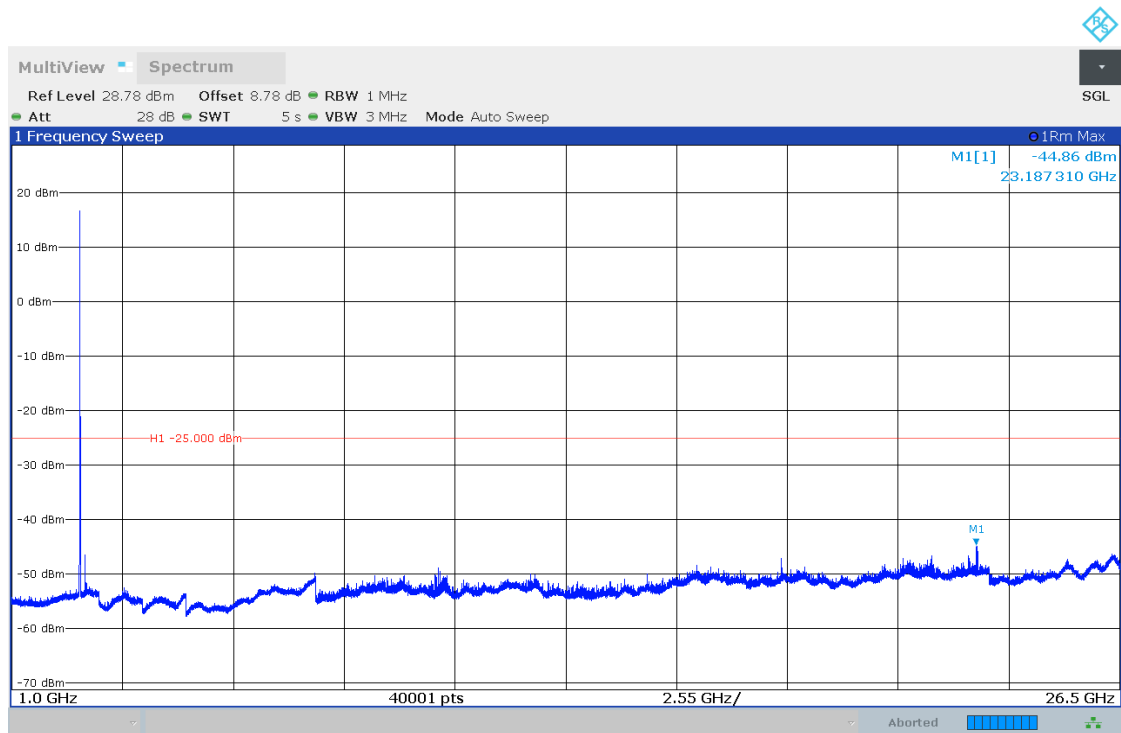
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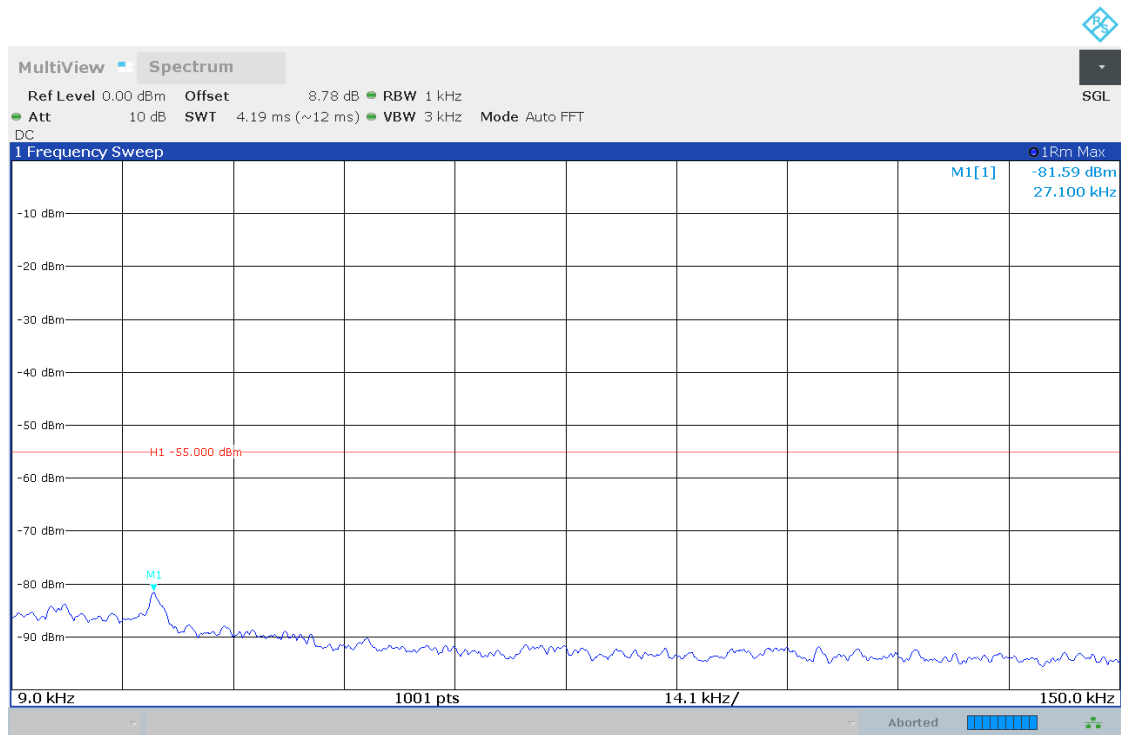


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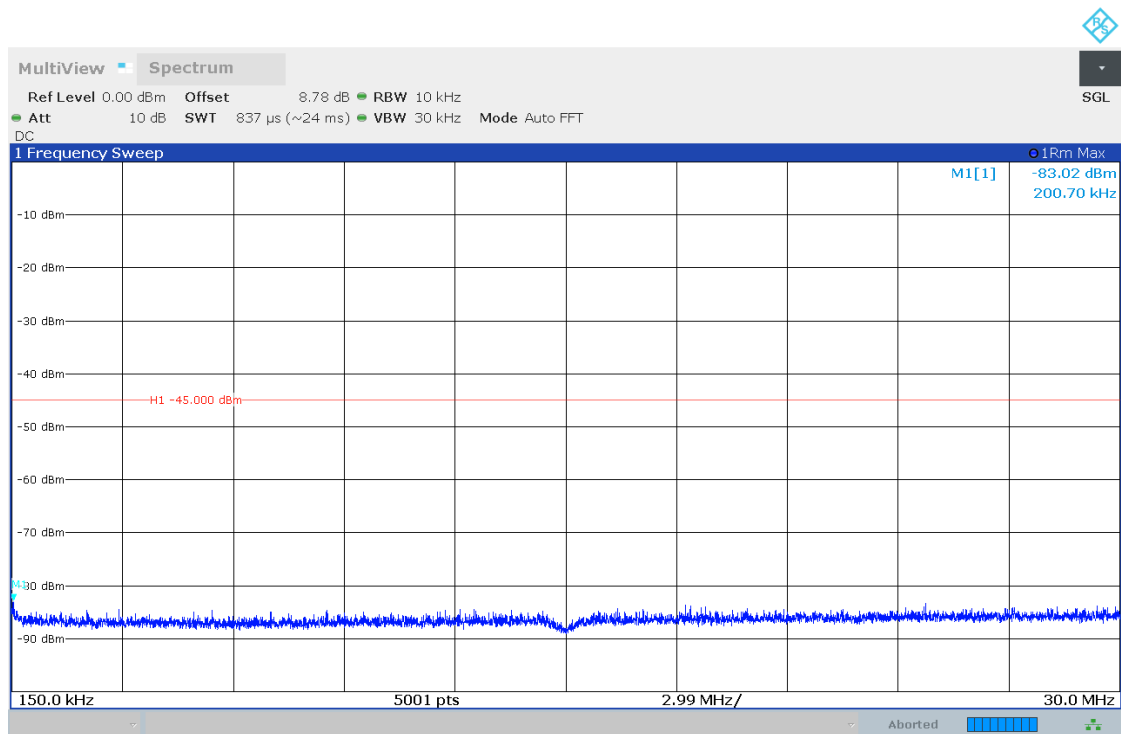


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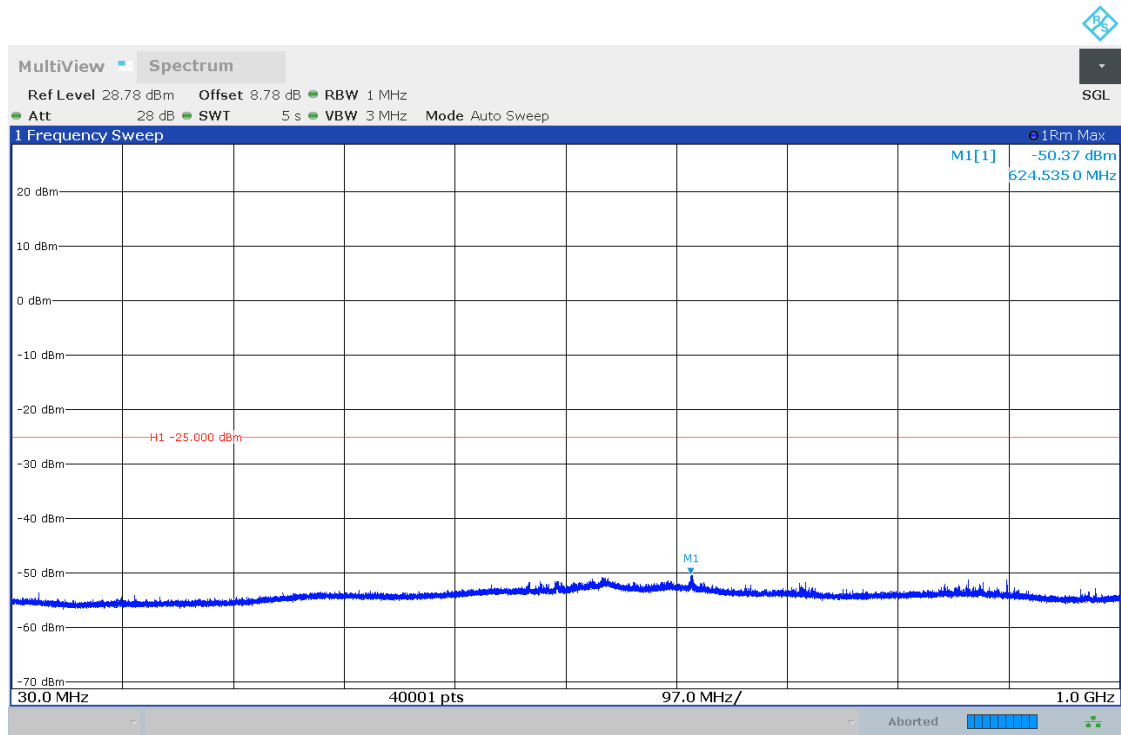
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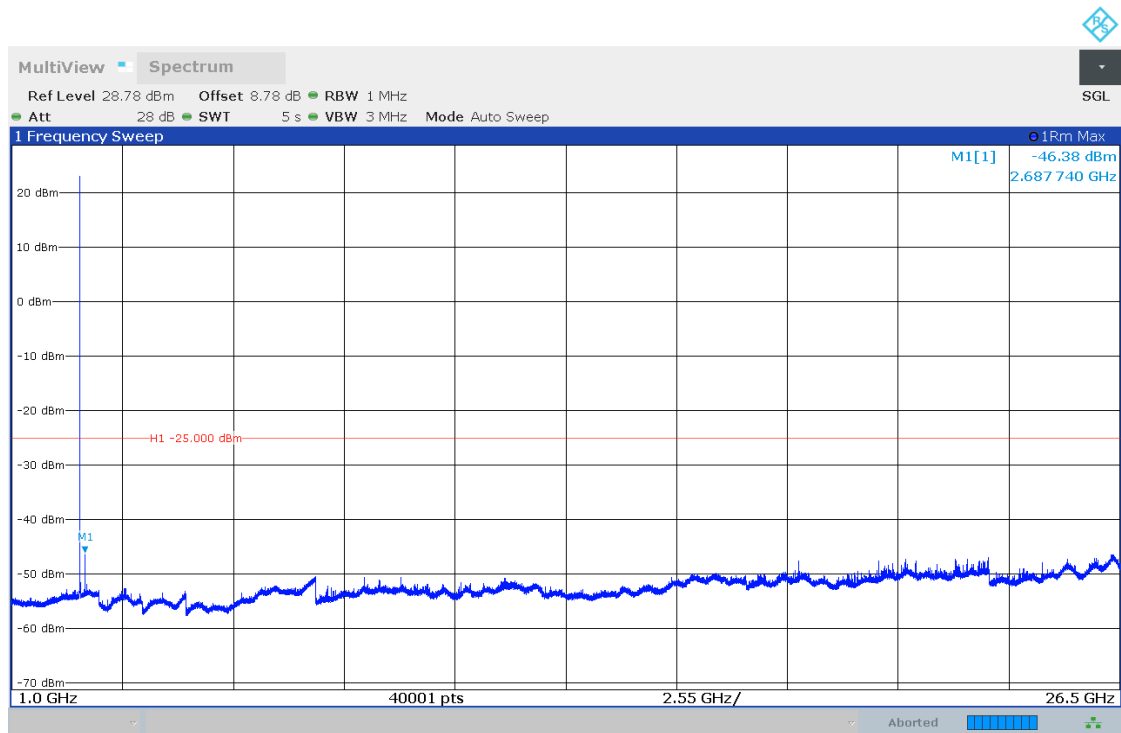
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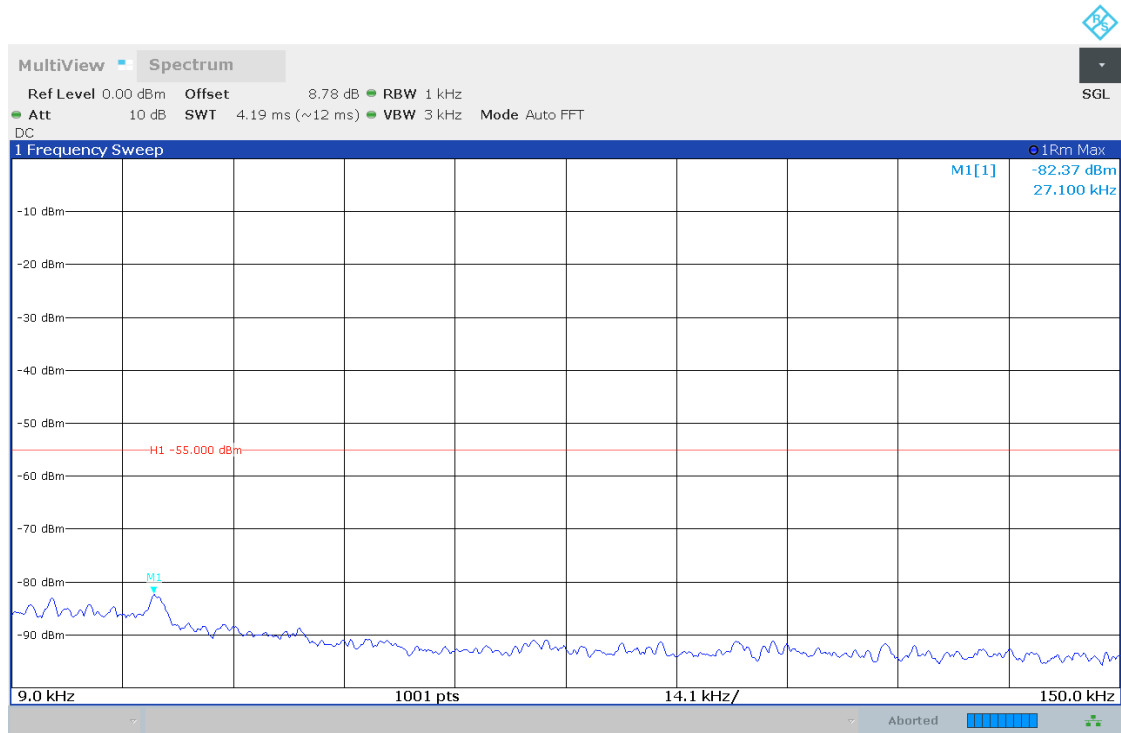


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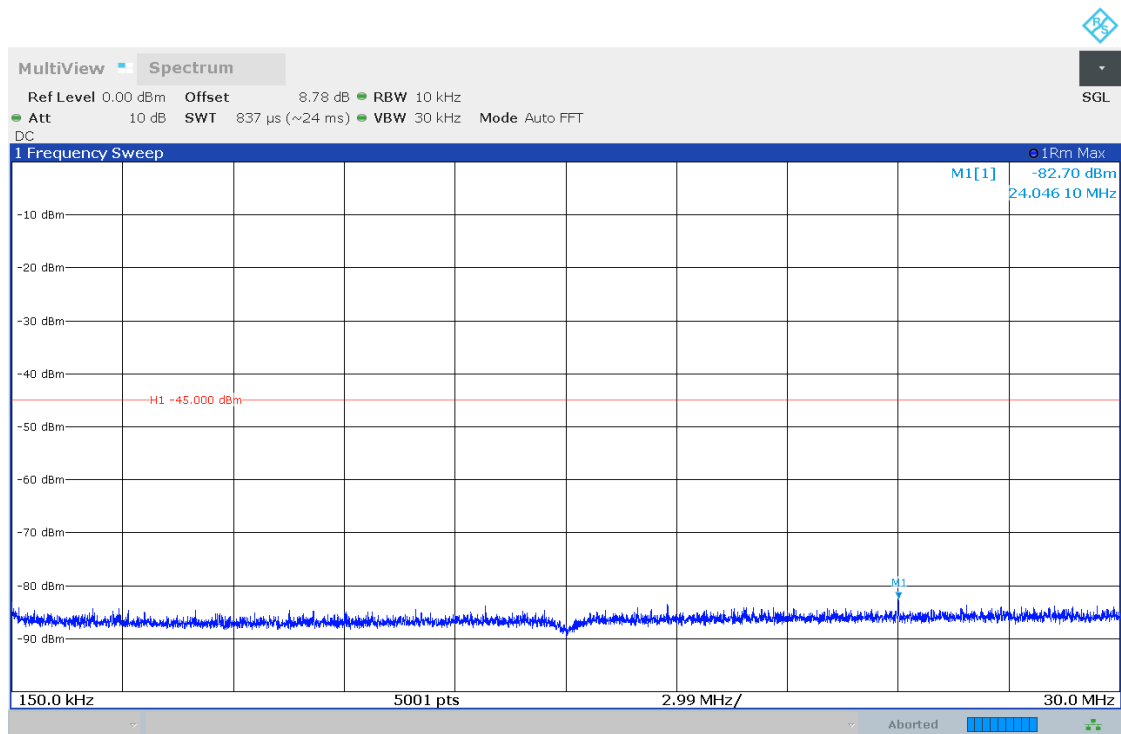


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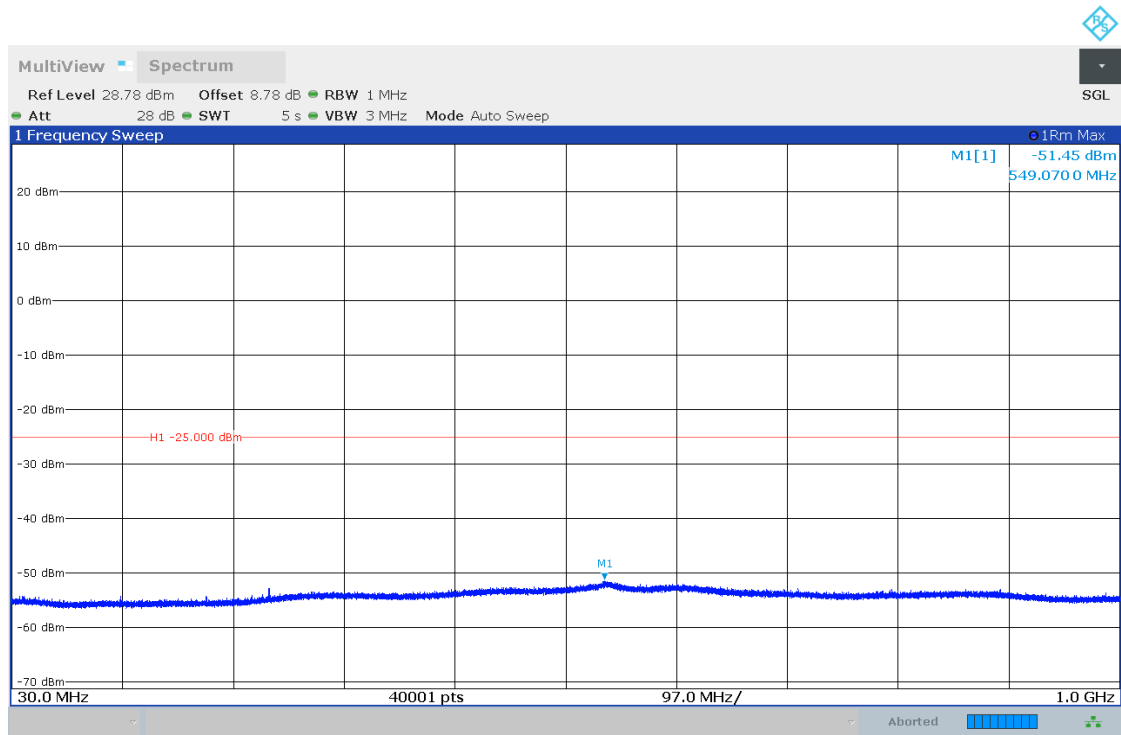
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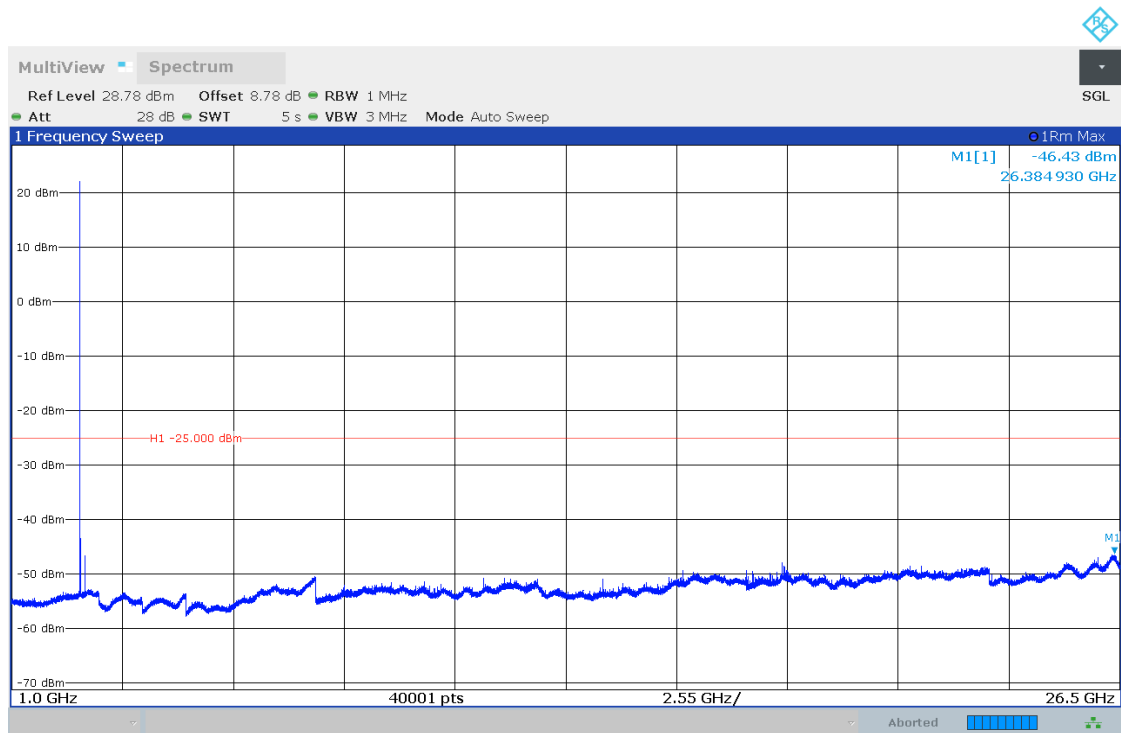
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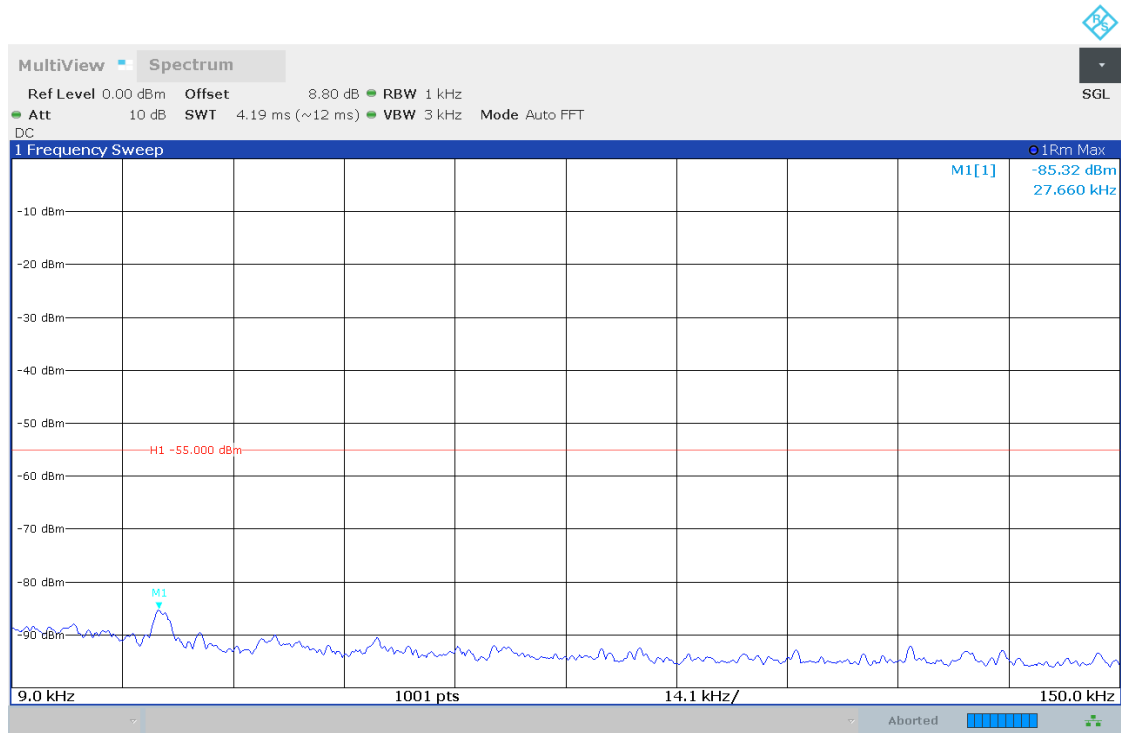


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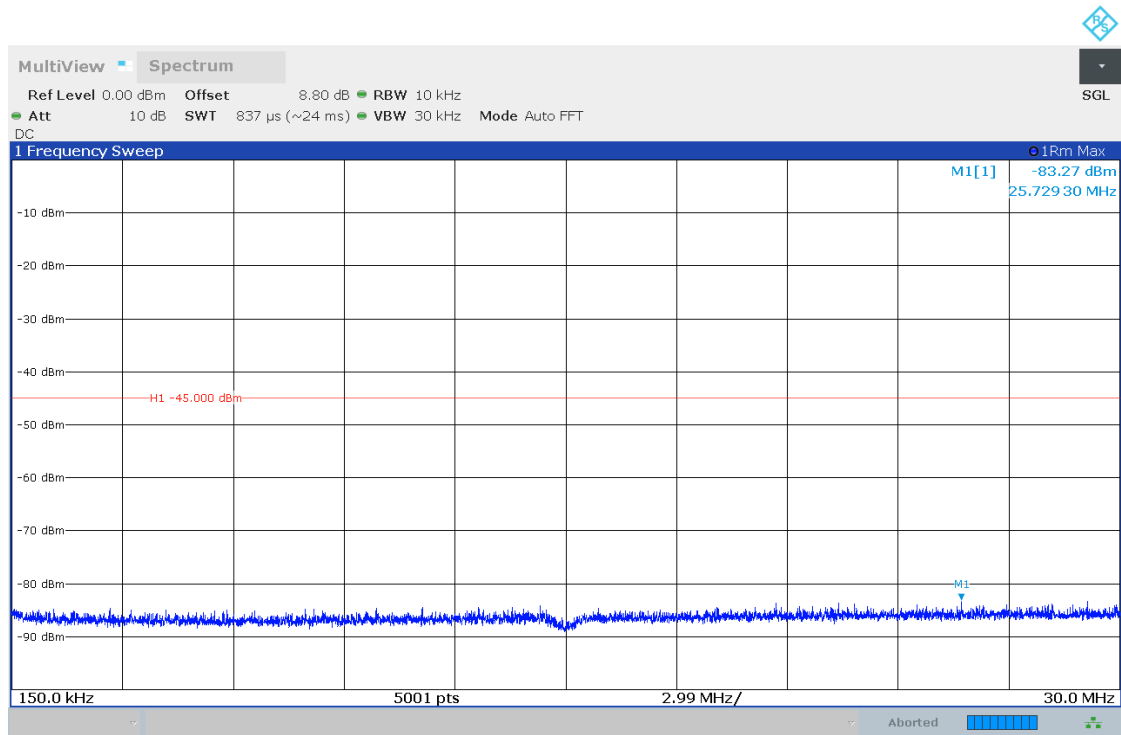


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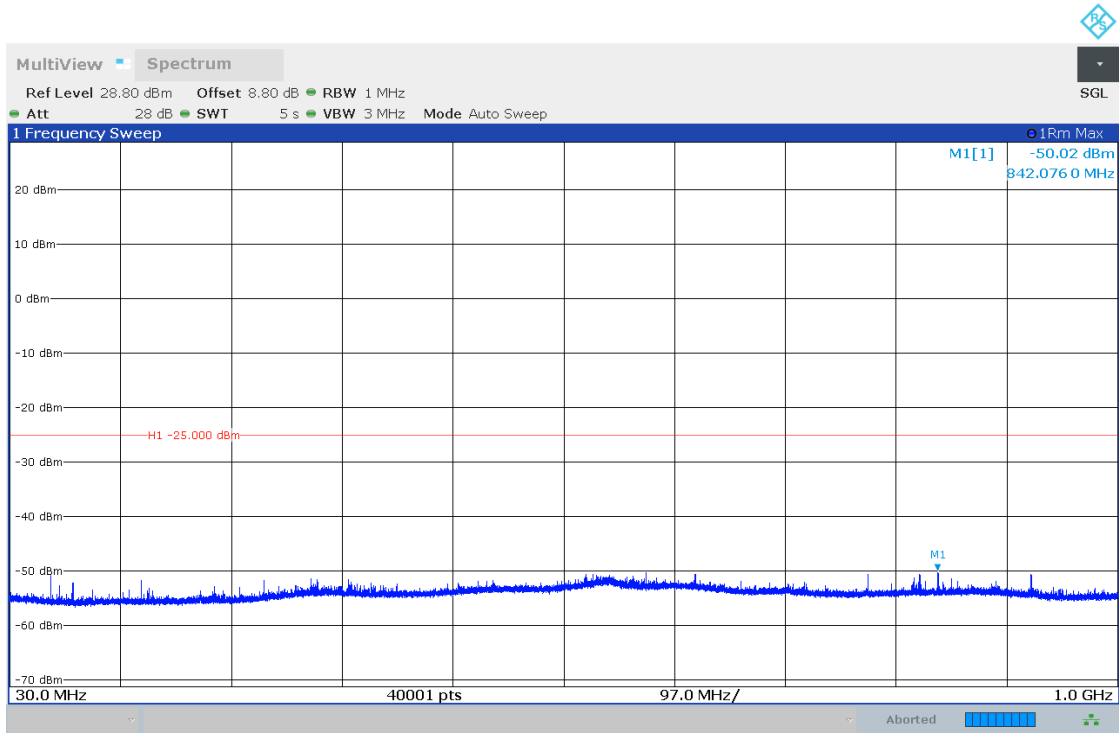
TM1_20MHz_LCH_RB100#0



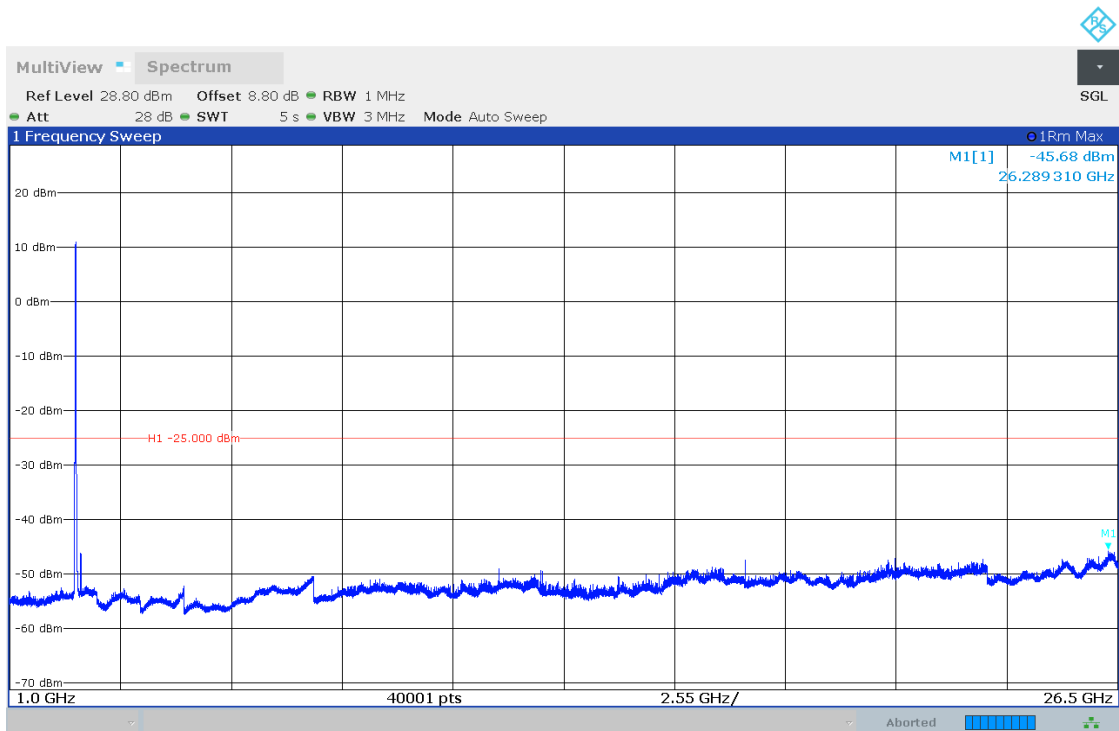
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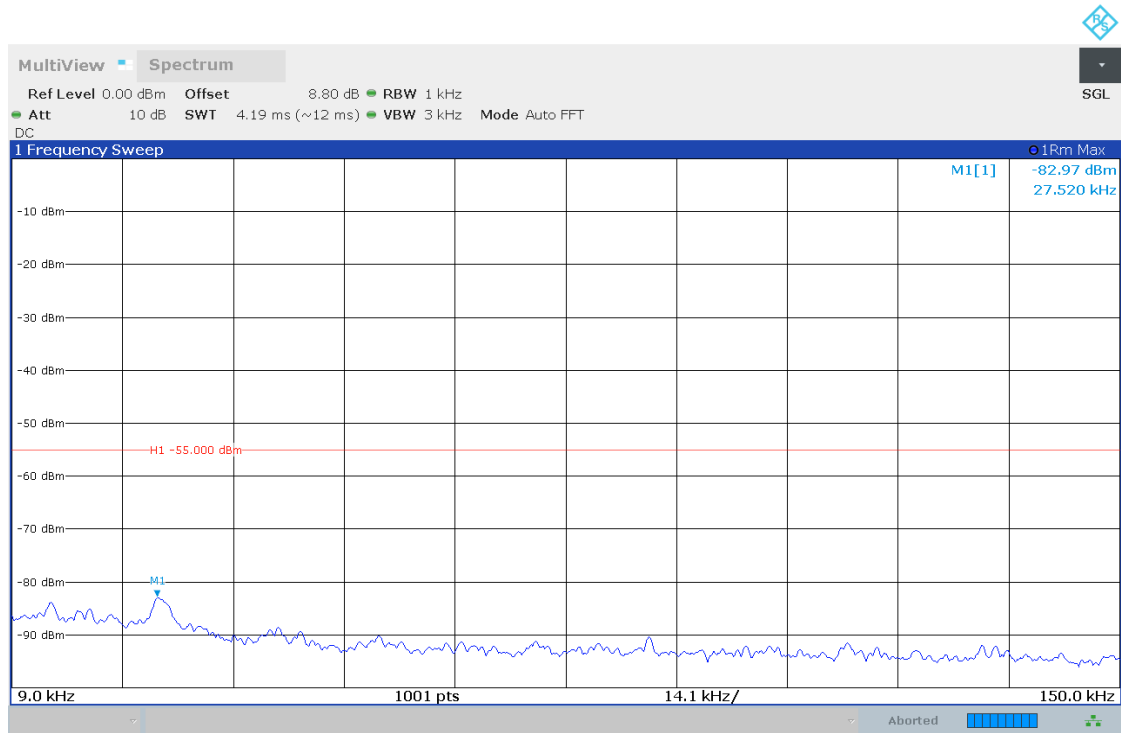


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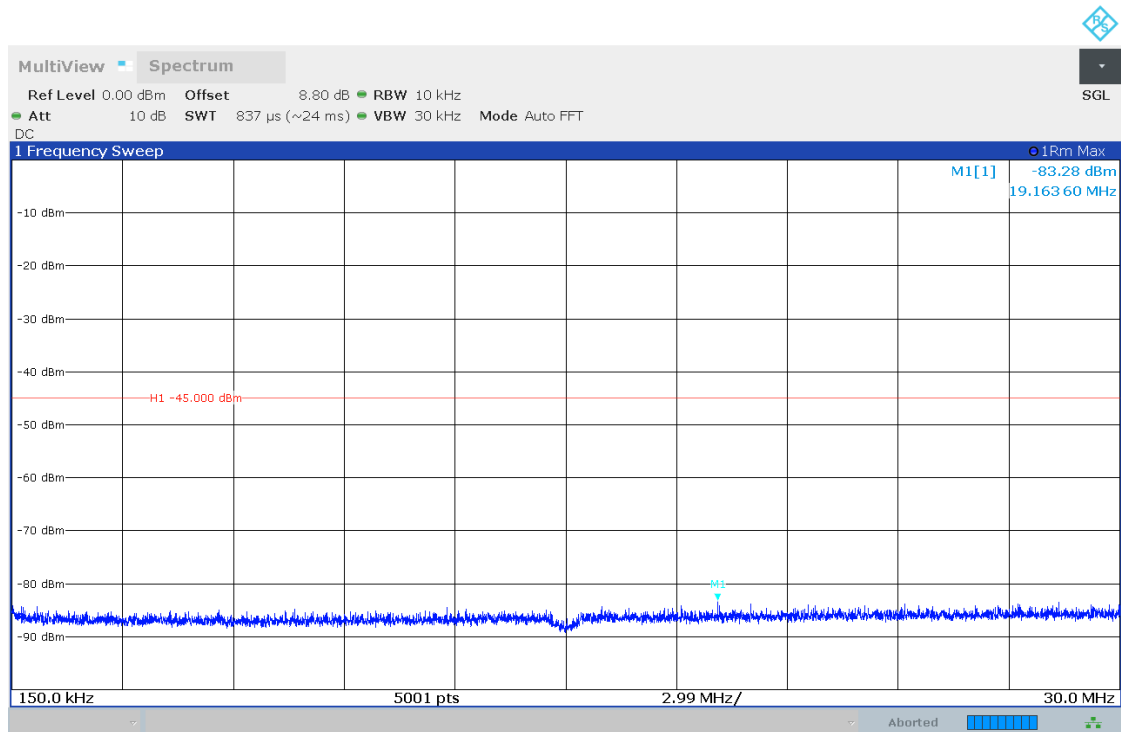


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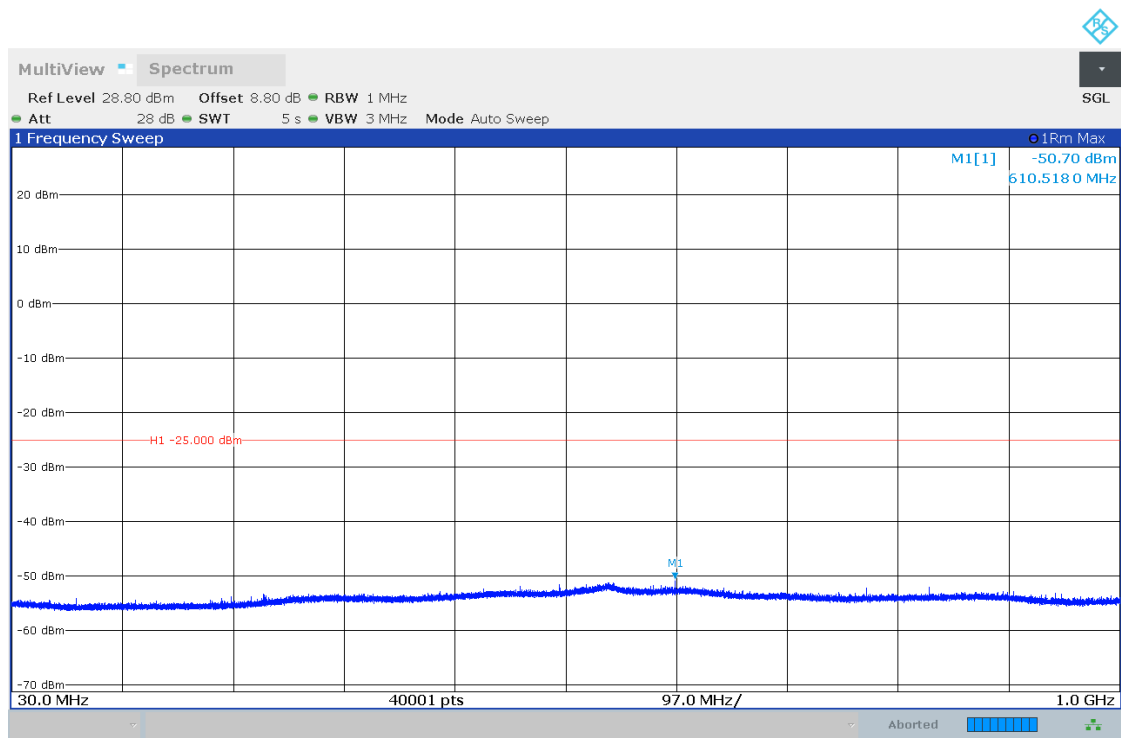
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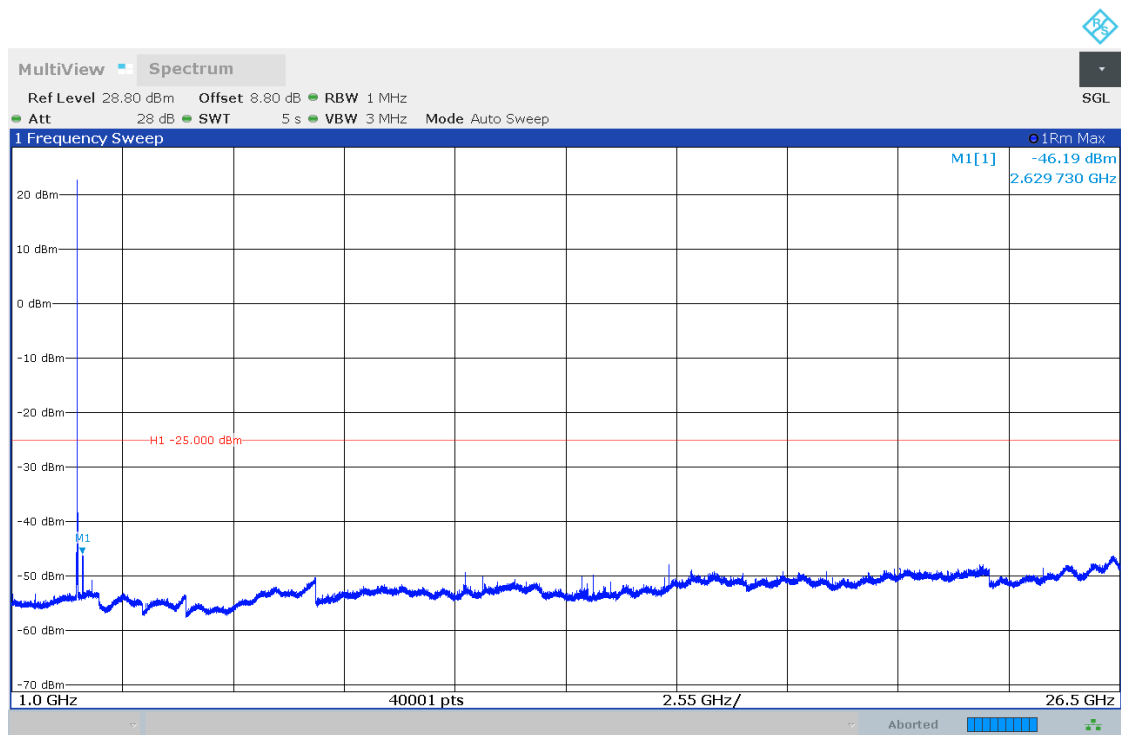
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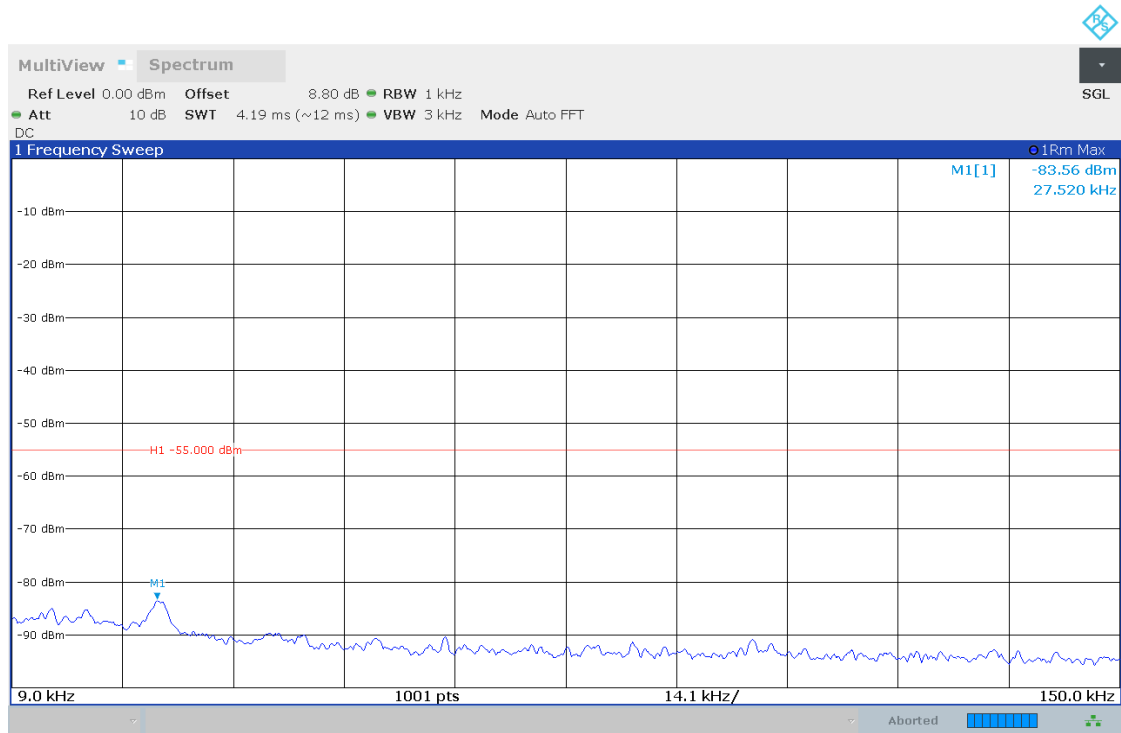


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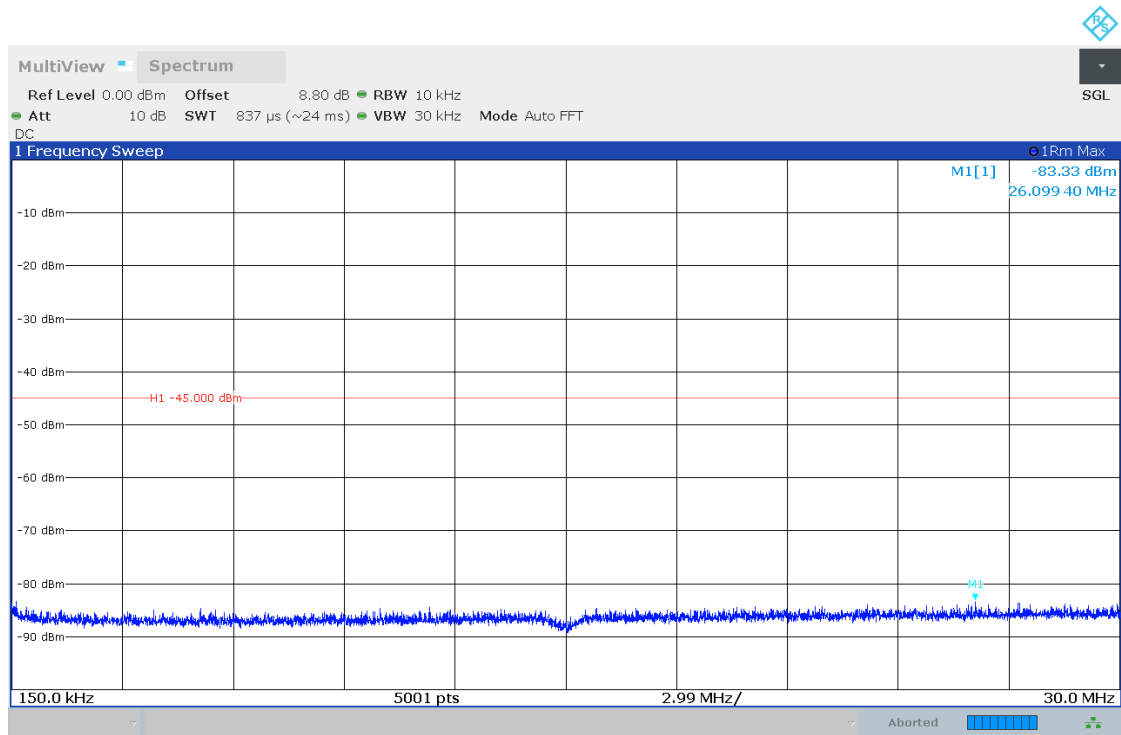


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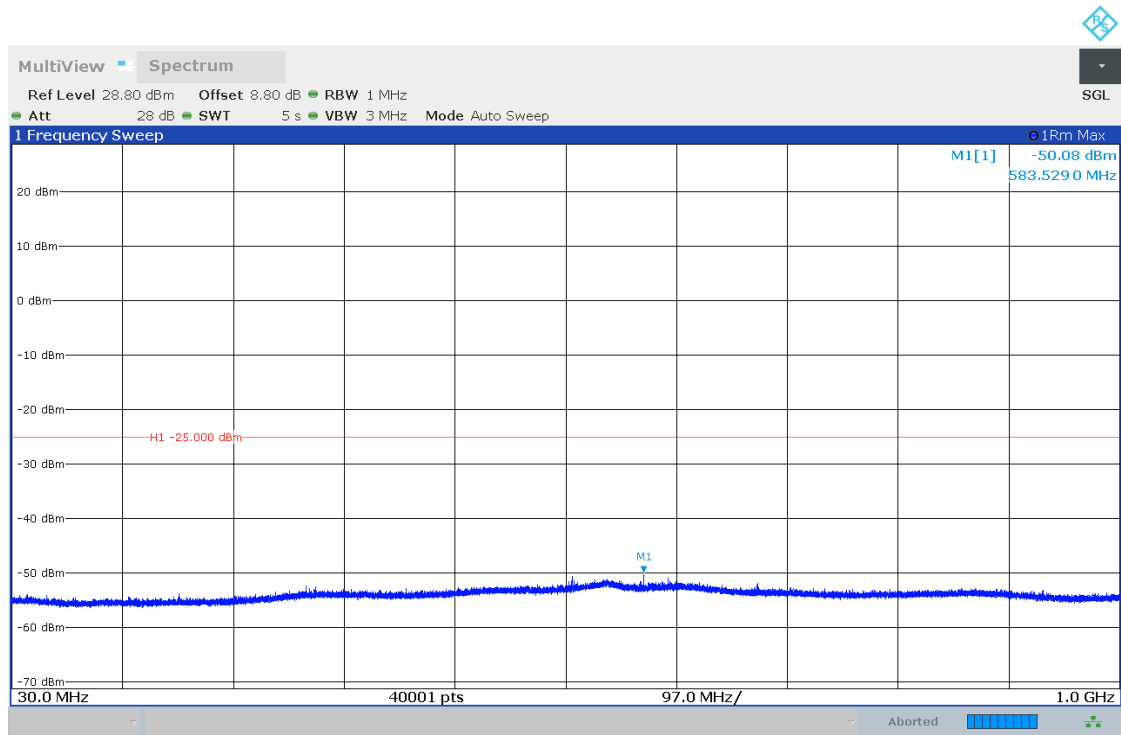
TM1_20MHz_LCH_RB1#99



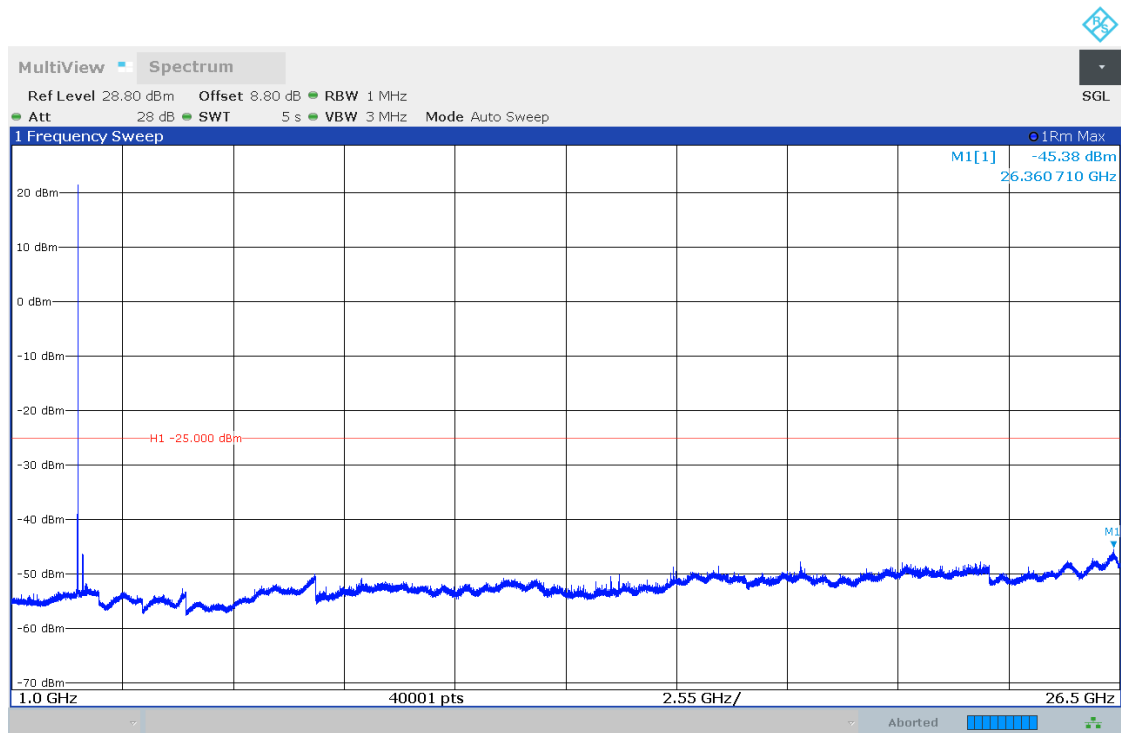
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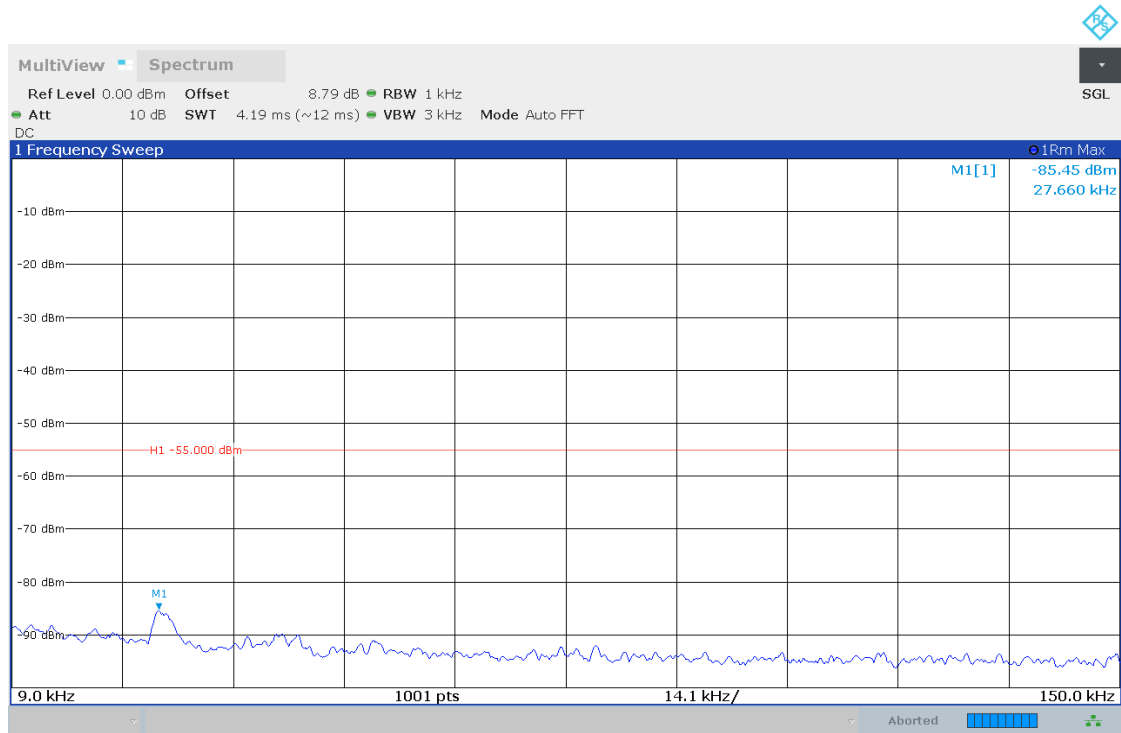


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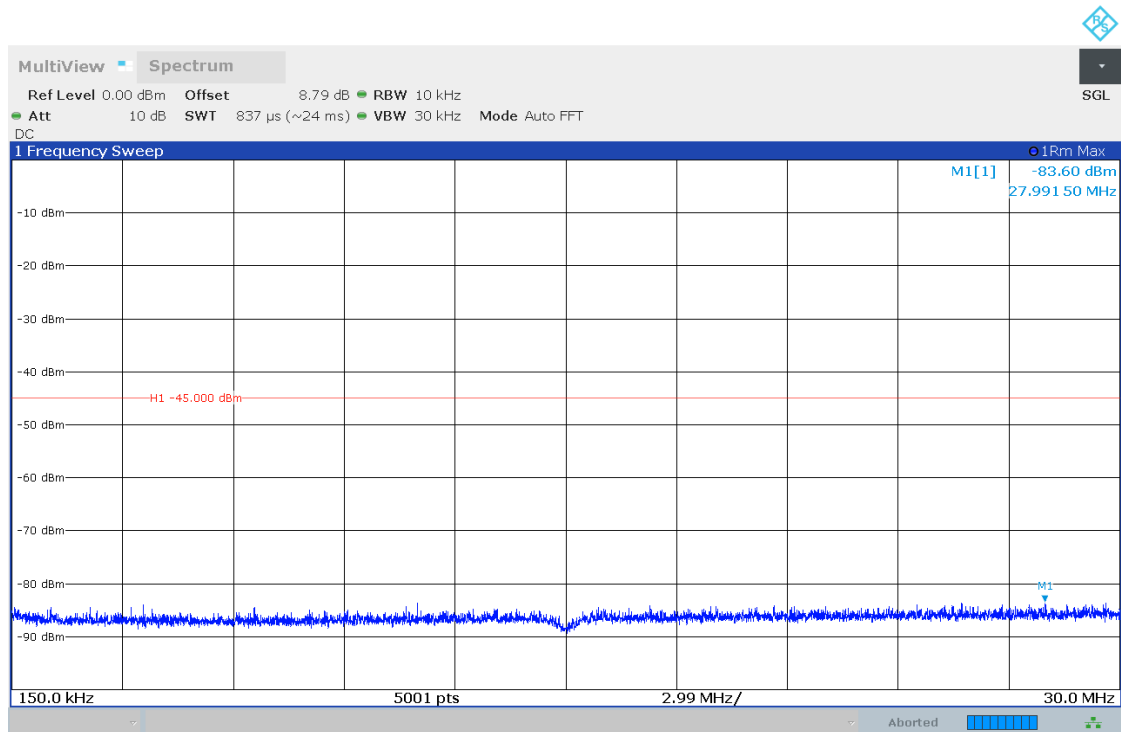


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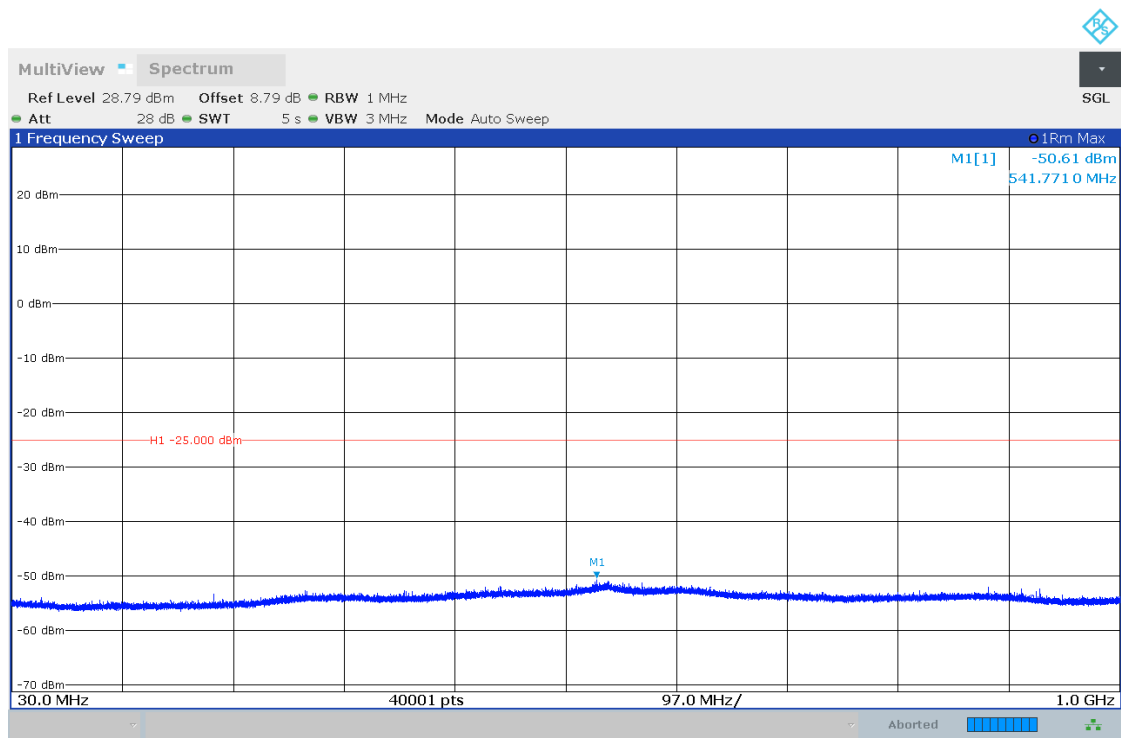
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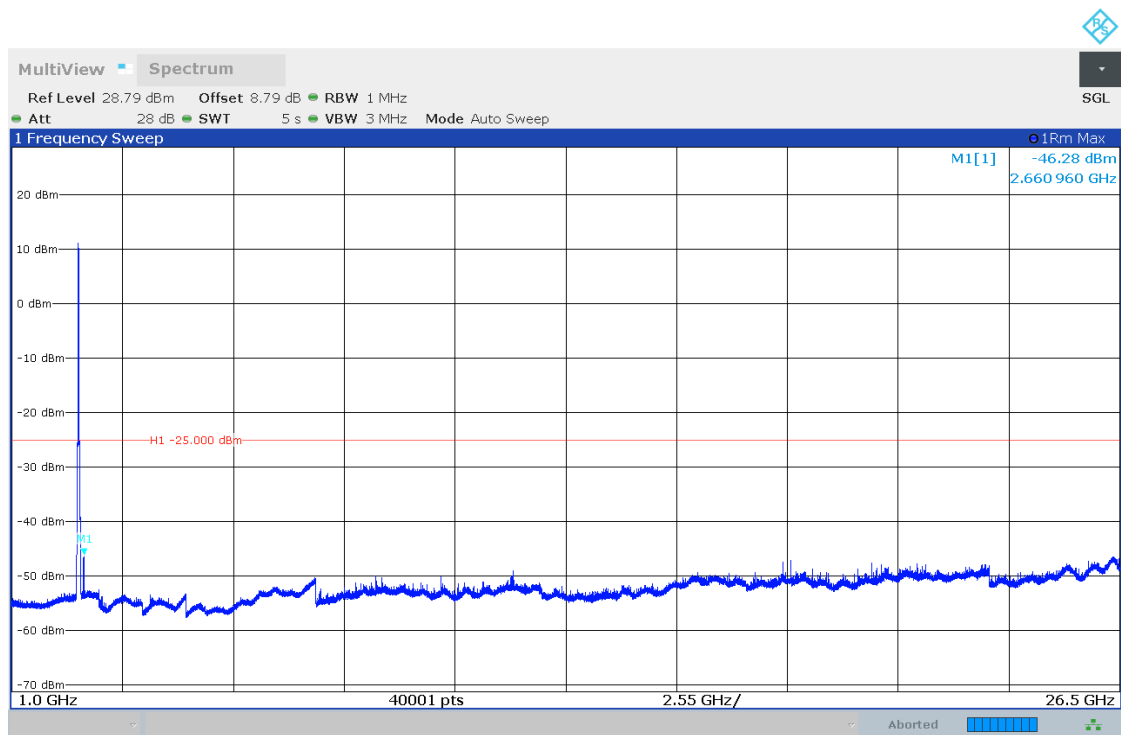
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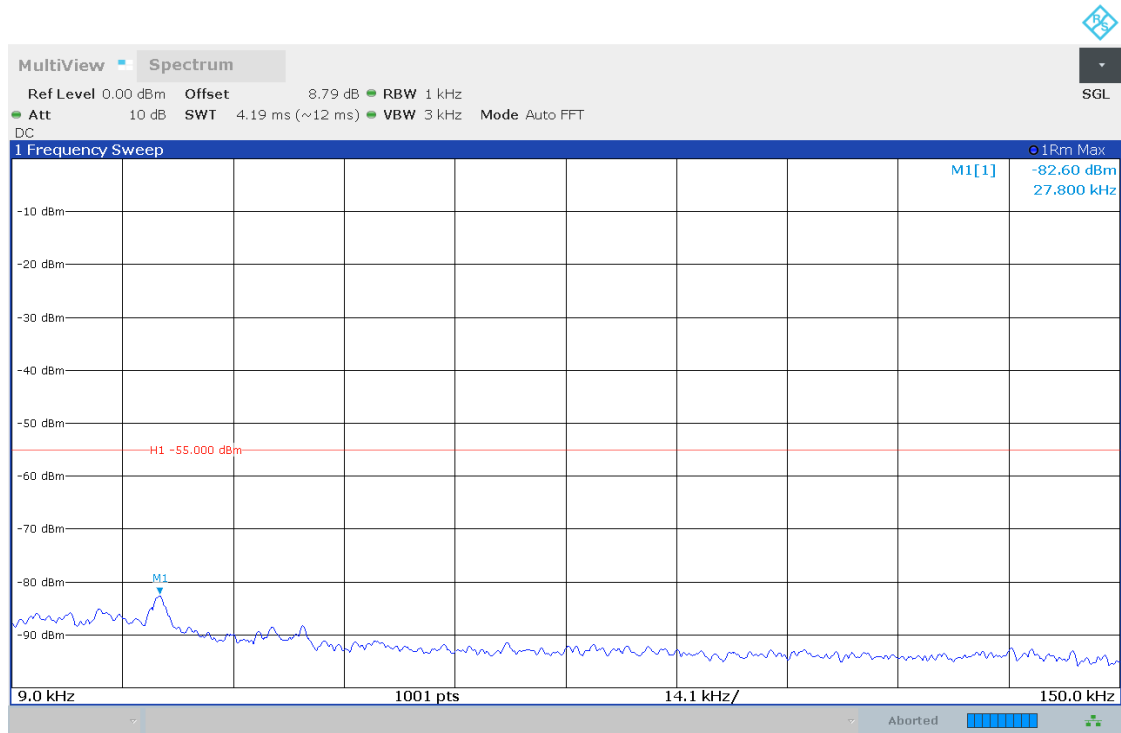


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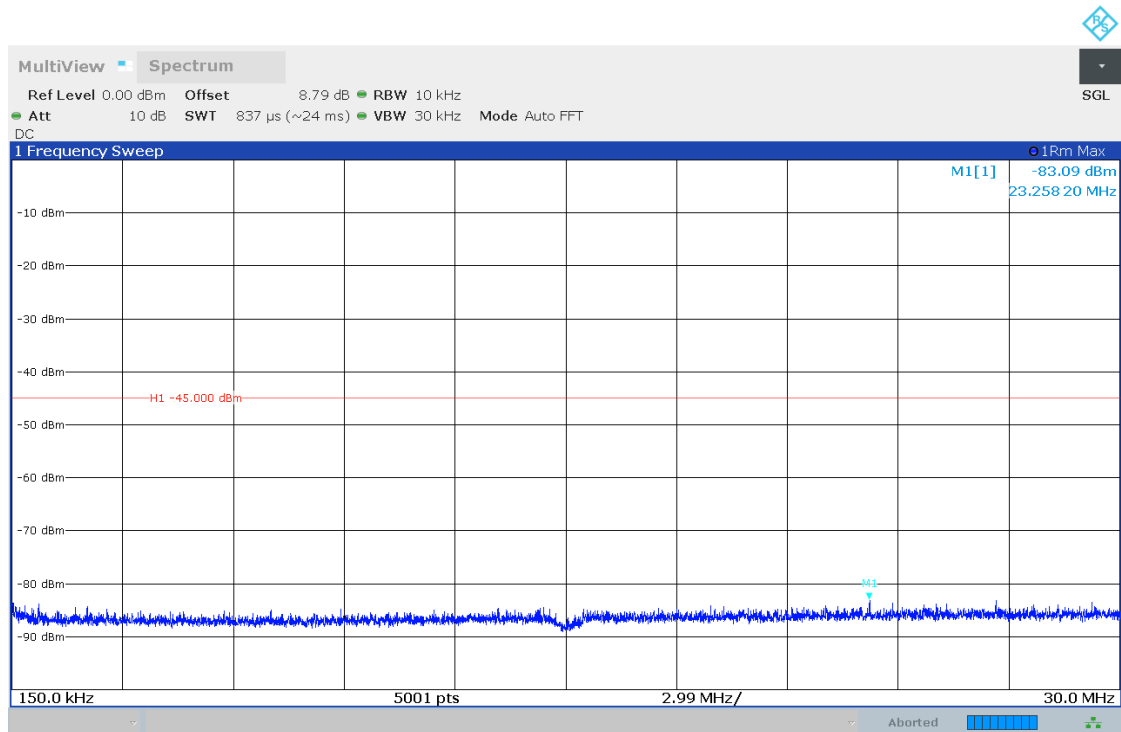


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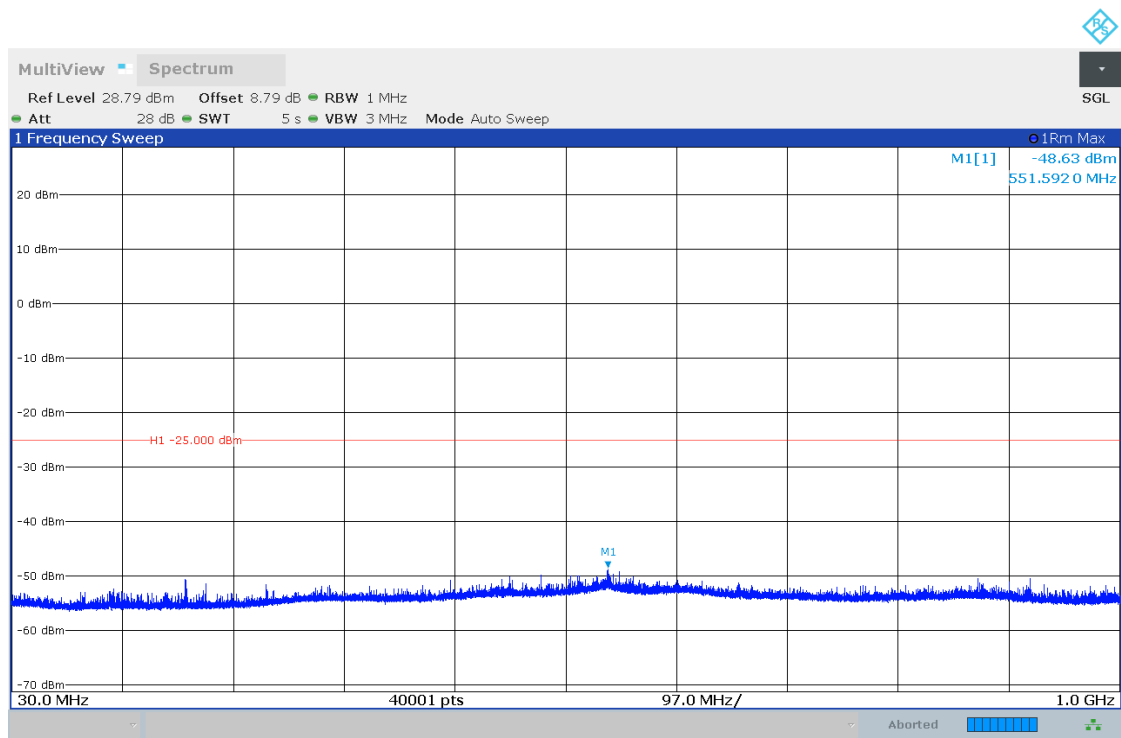
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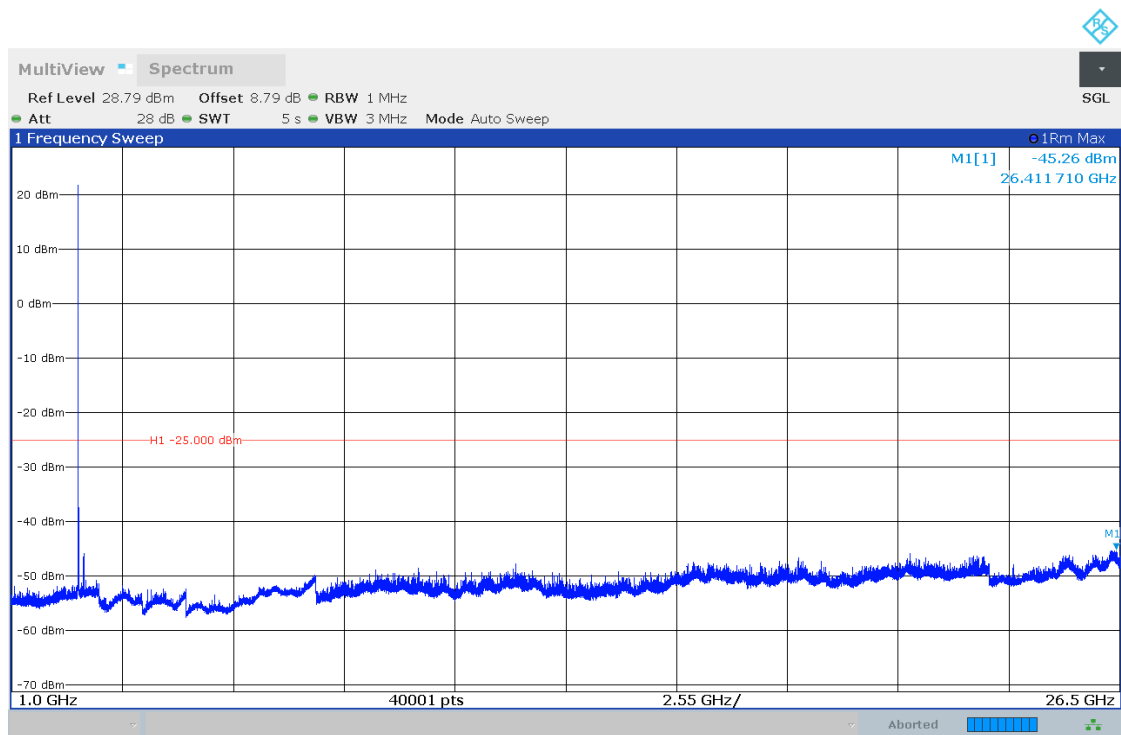
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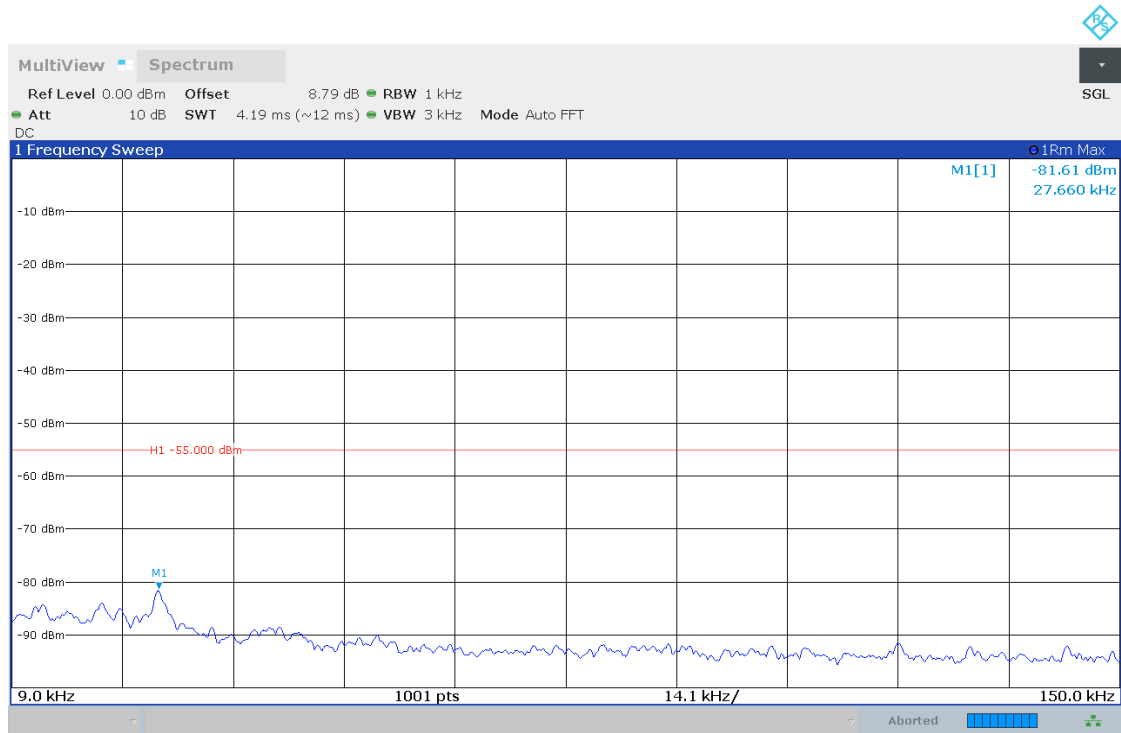


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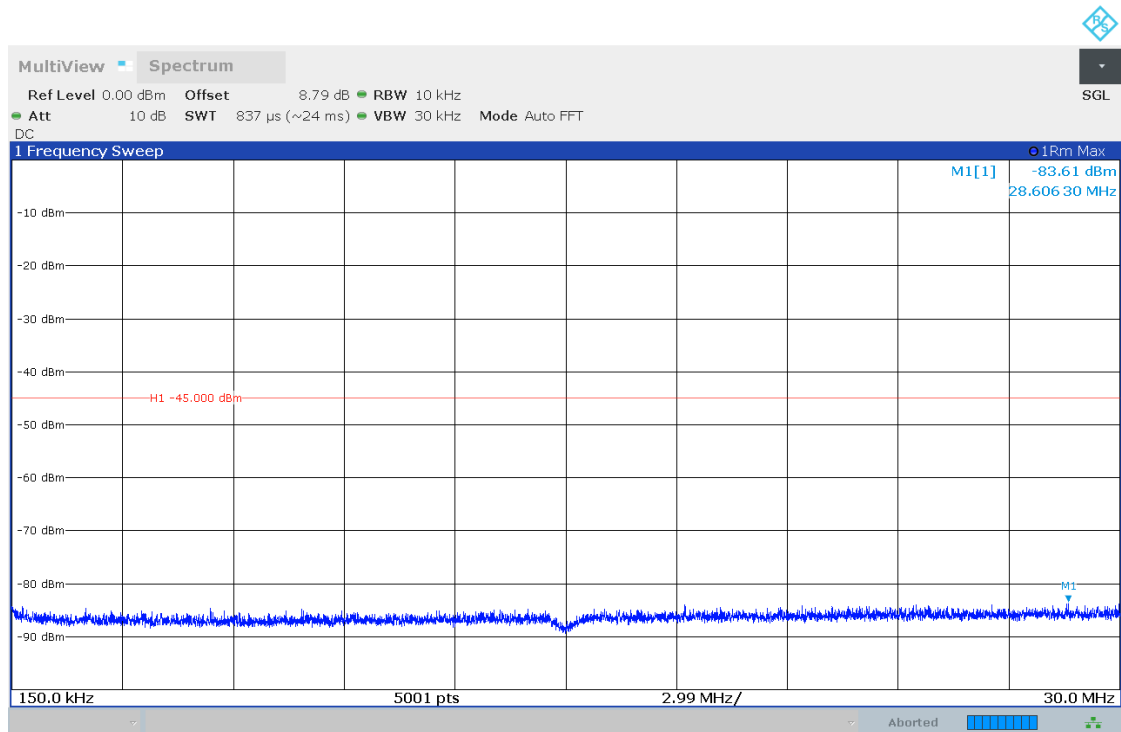


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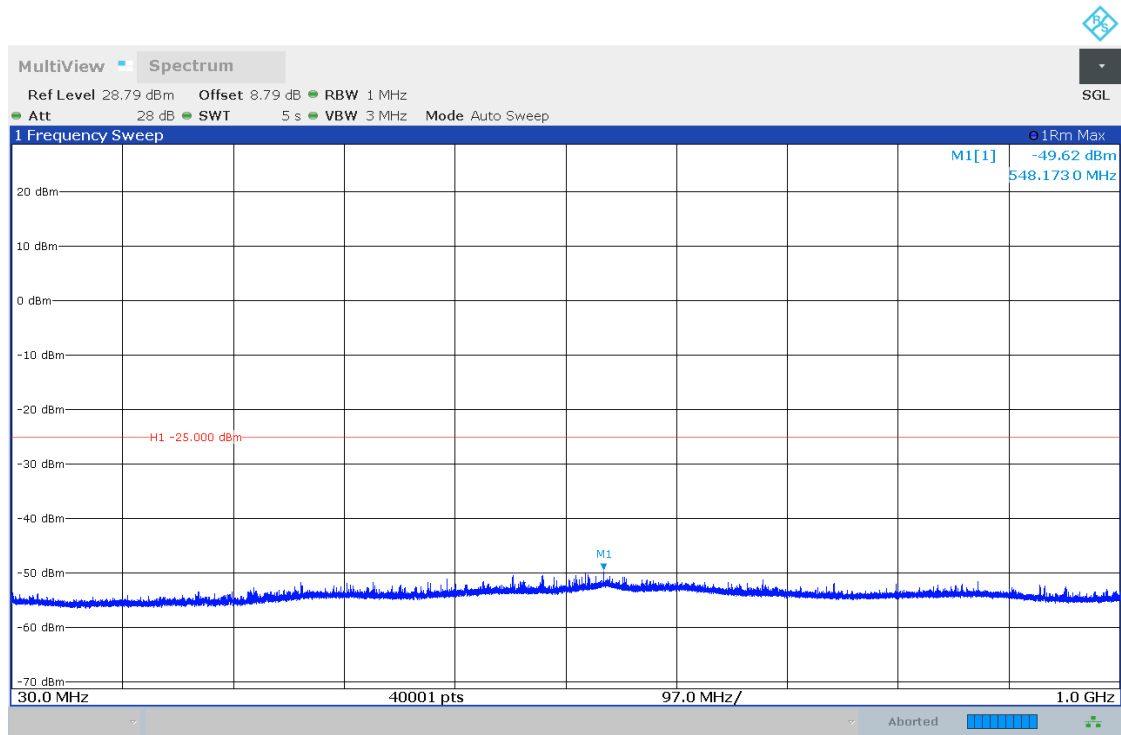
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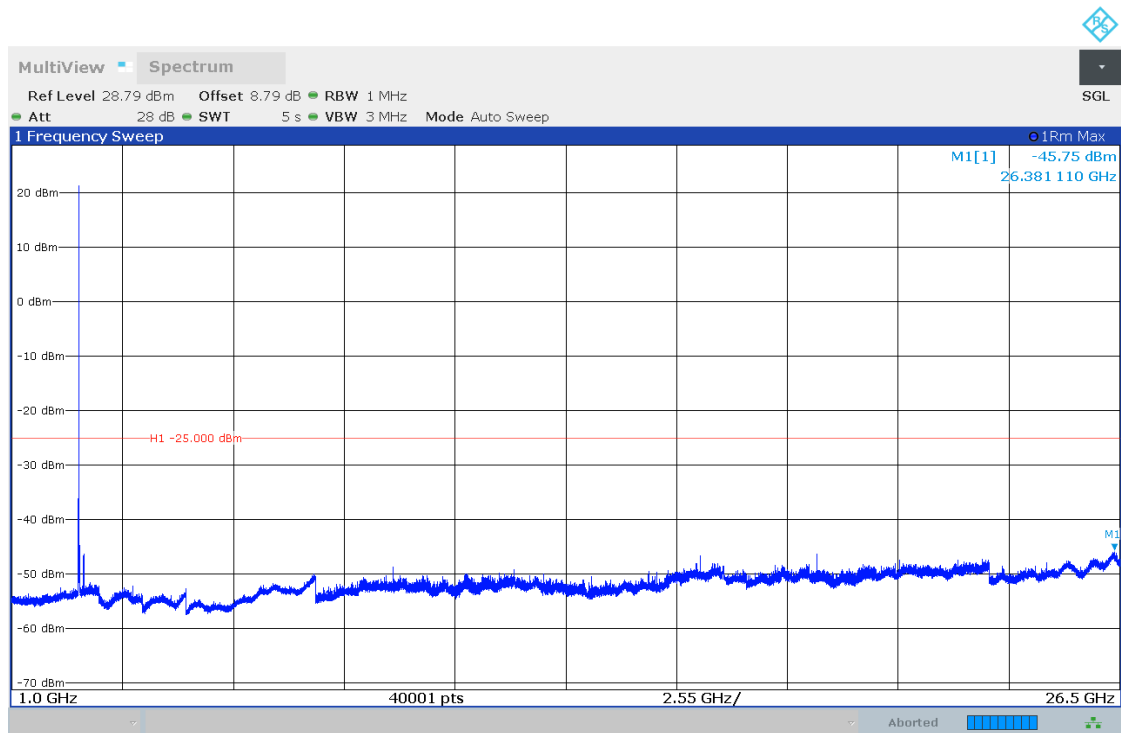
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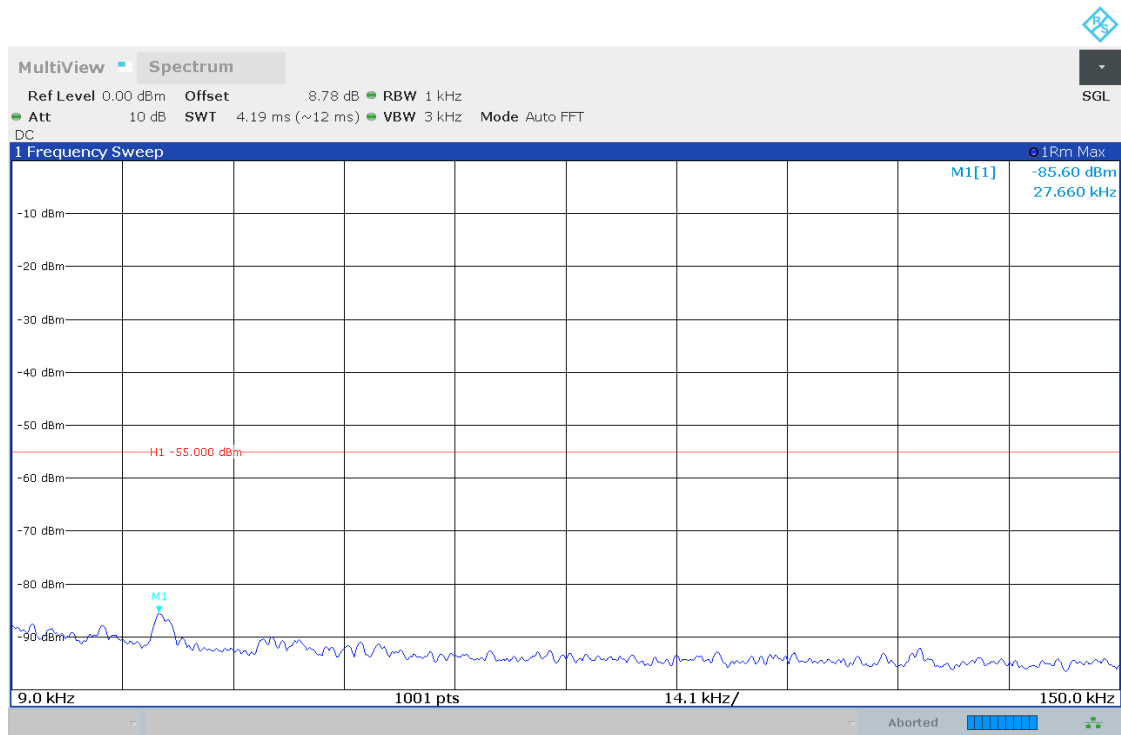


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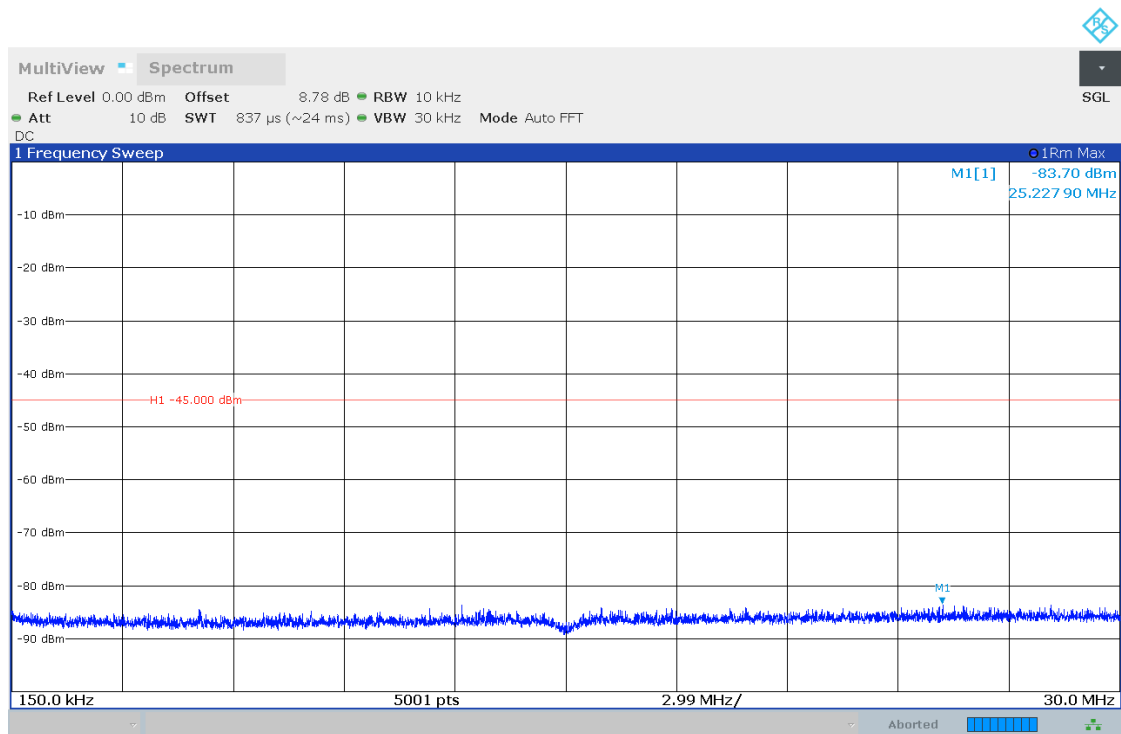


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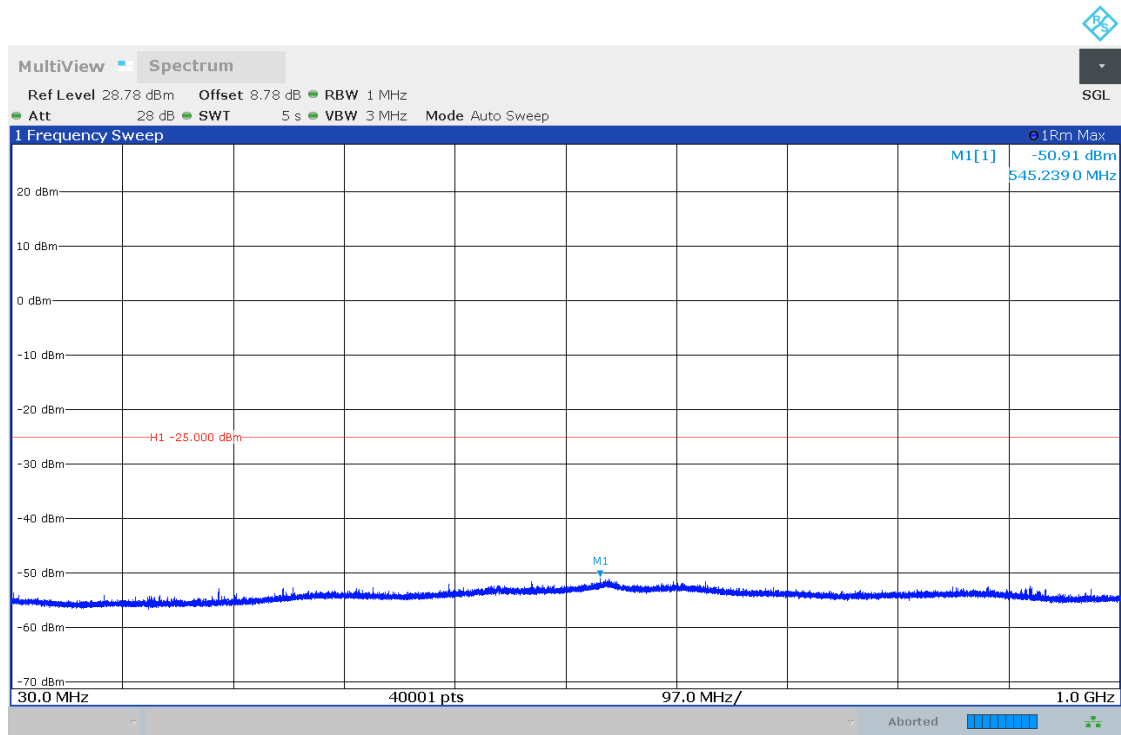
TM1_20MHz_HCH_RB100#0



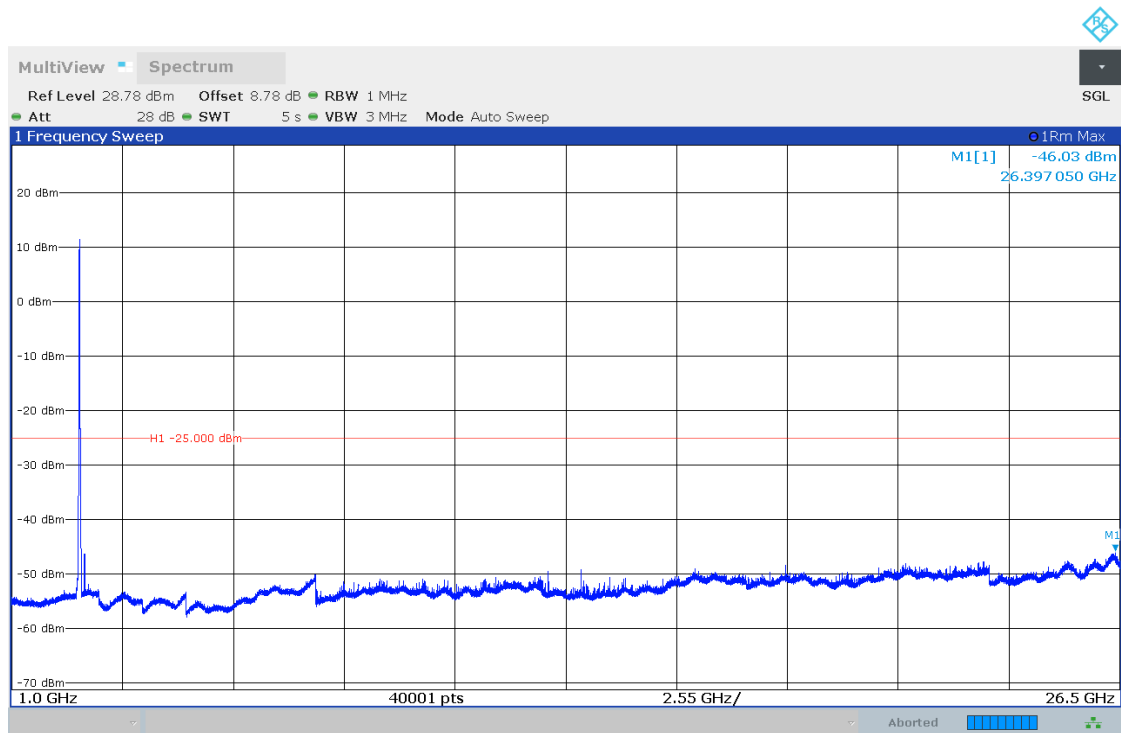
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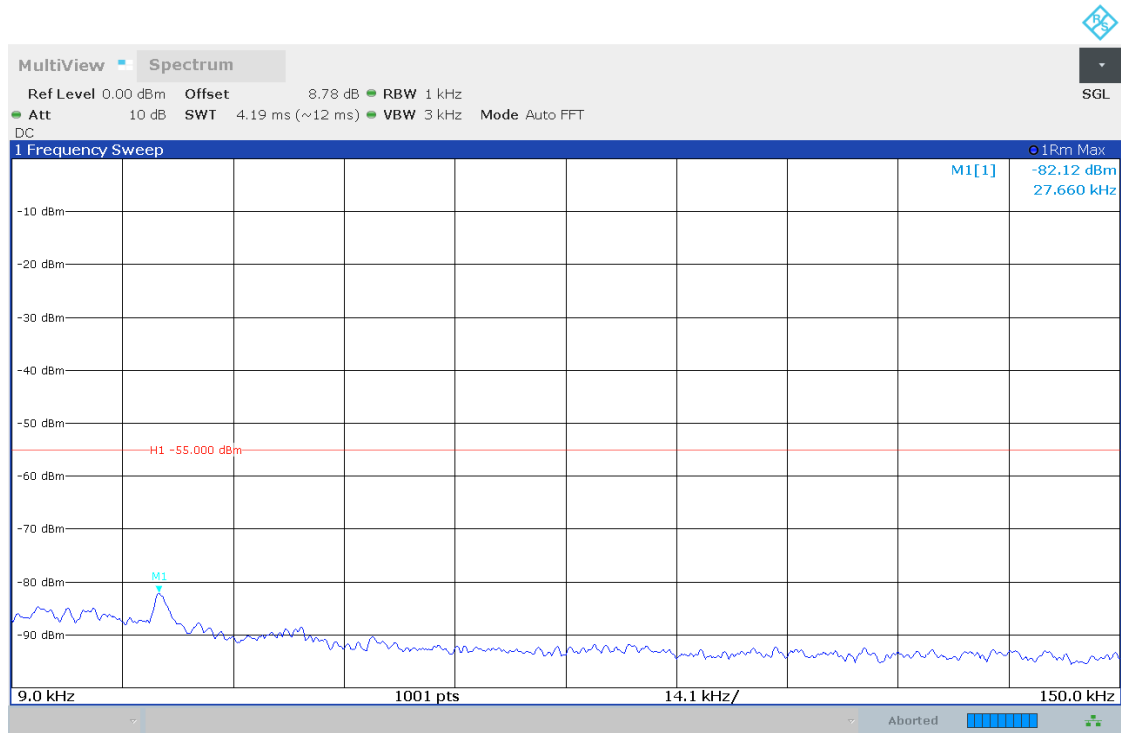


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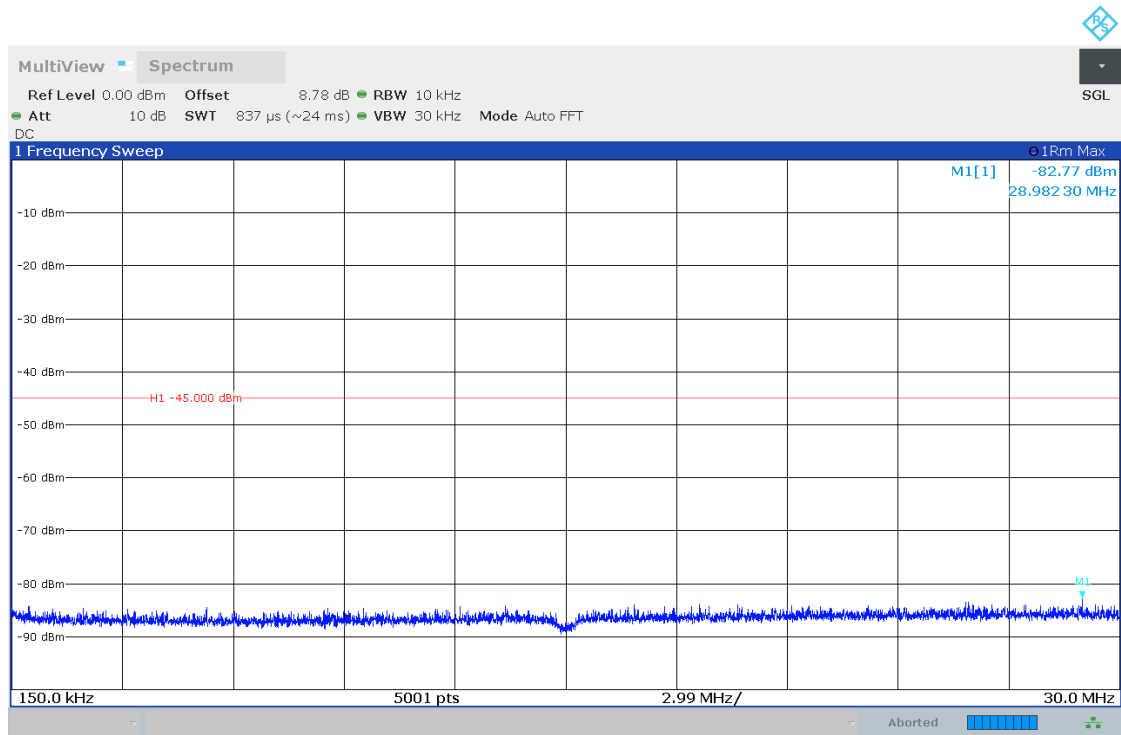


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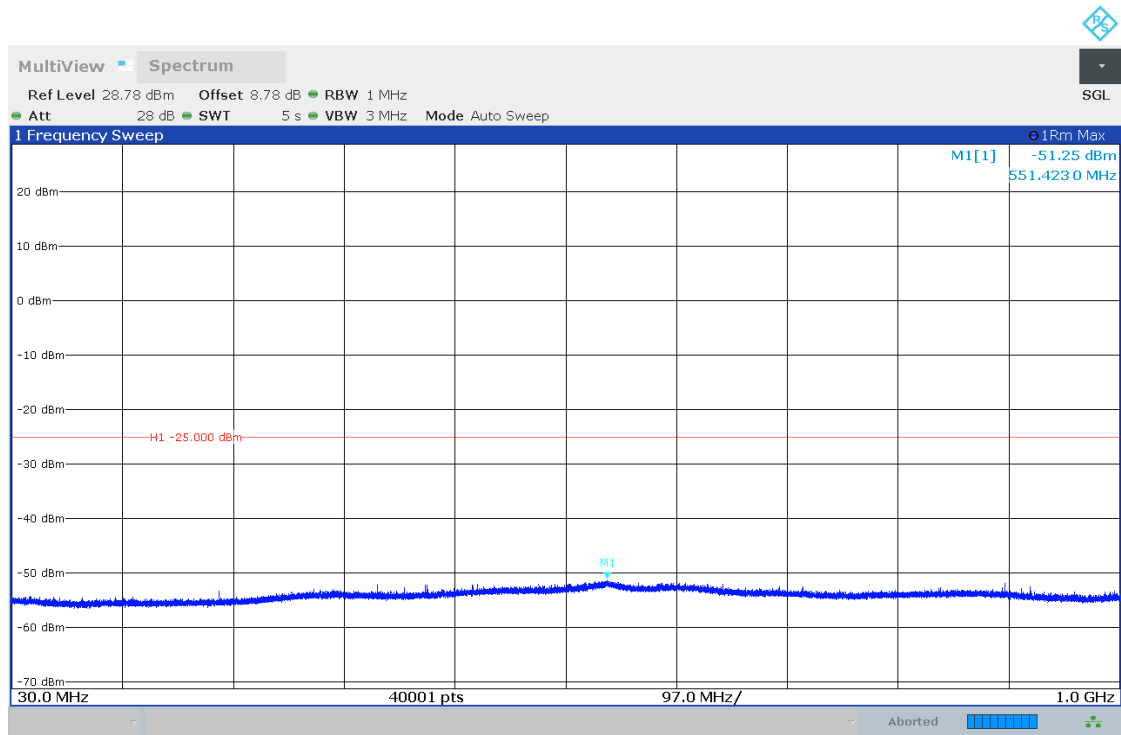
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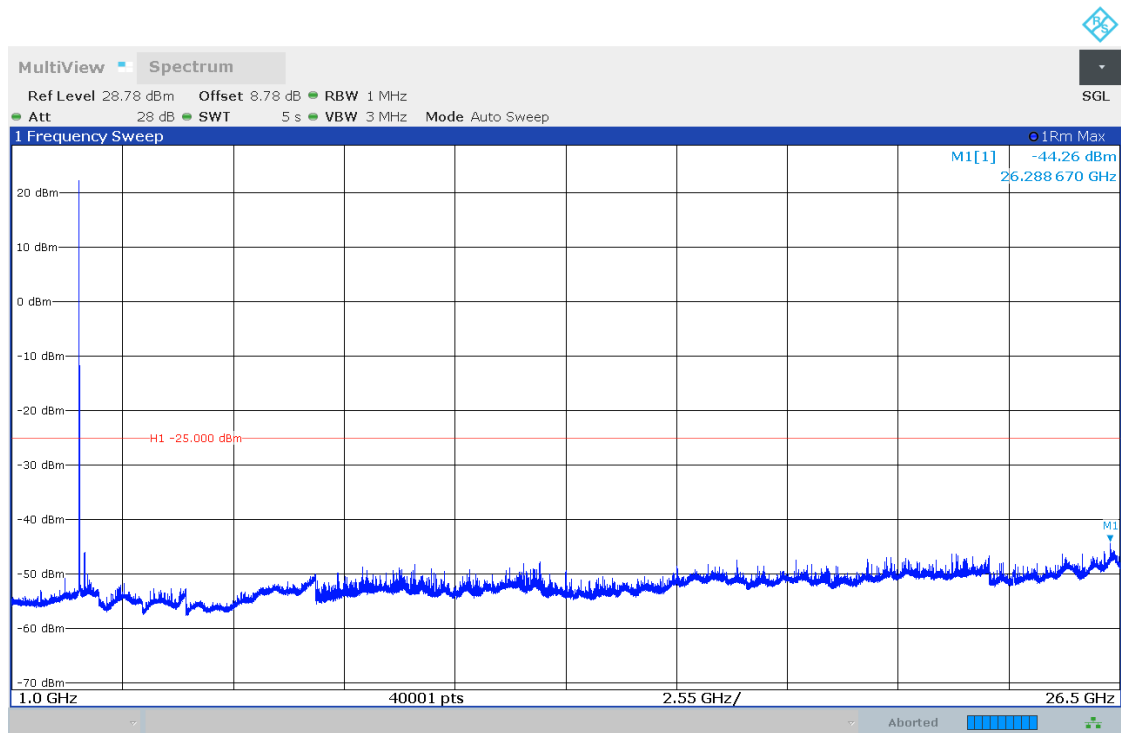
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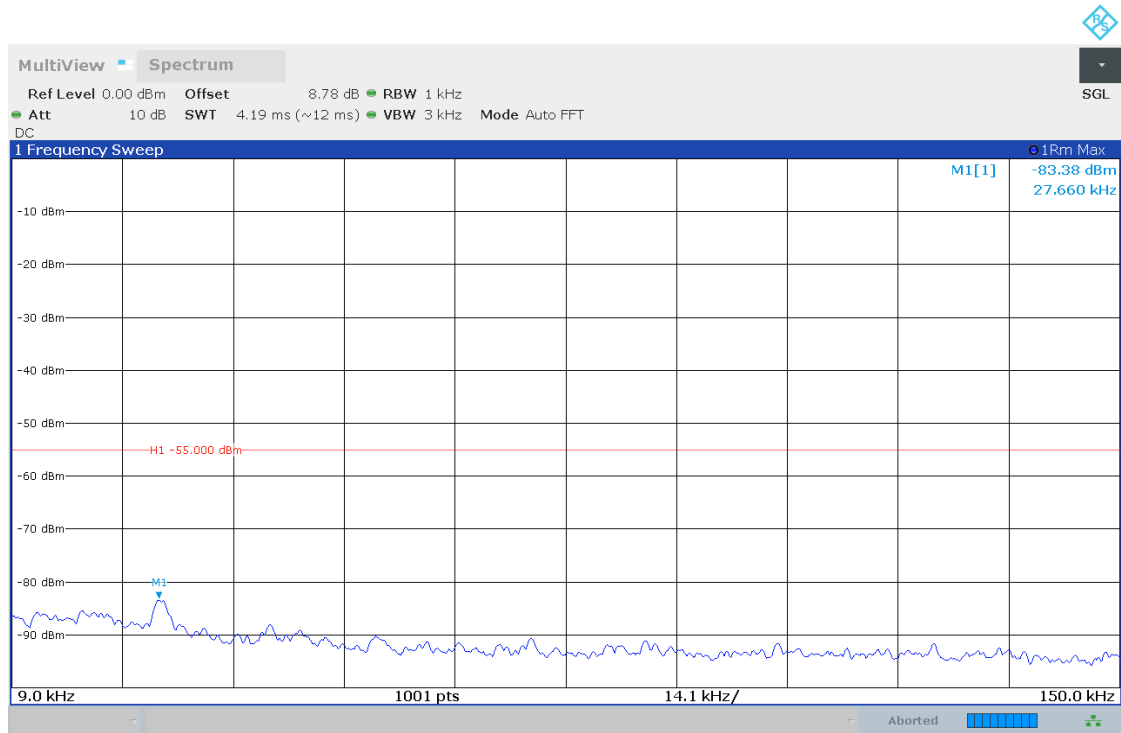


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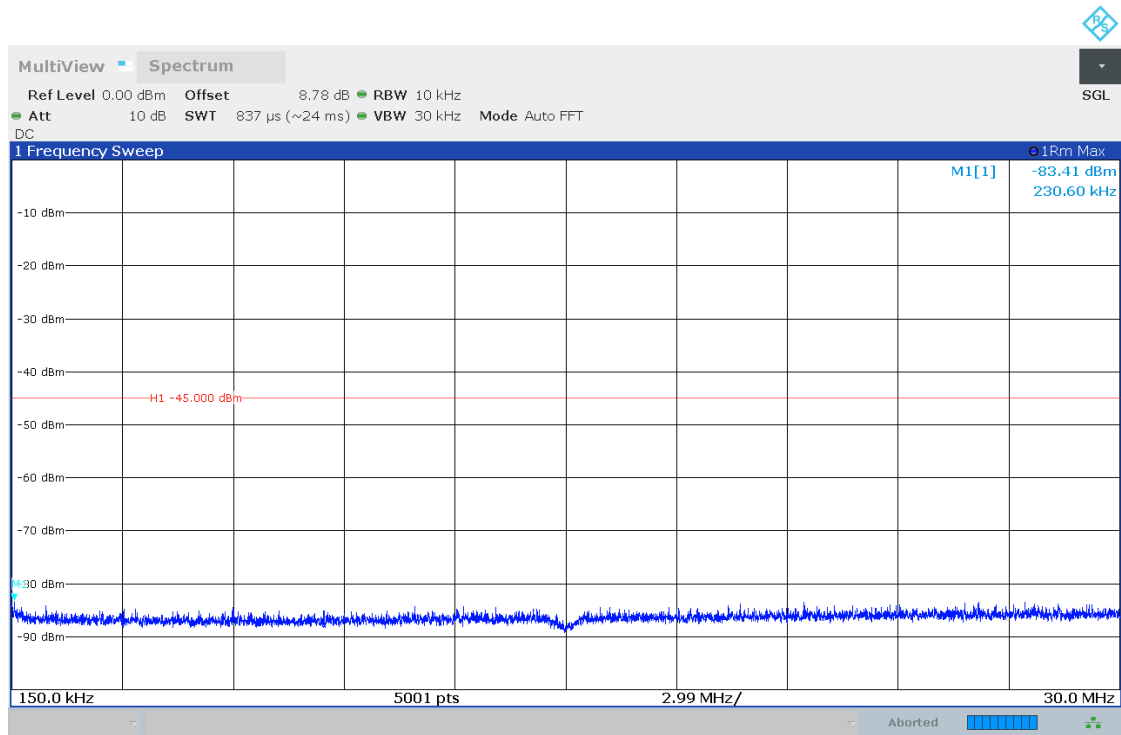


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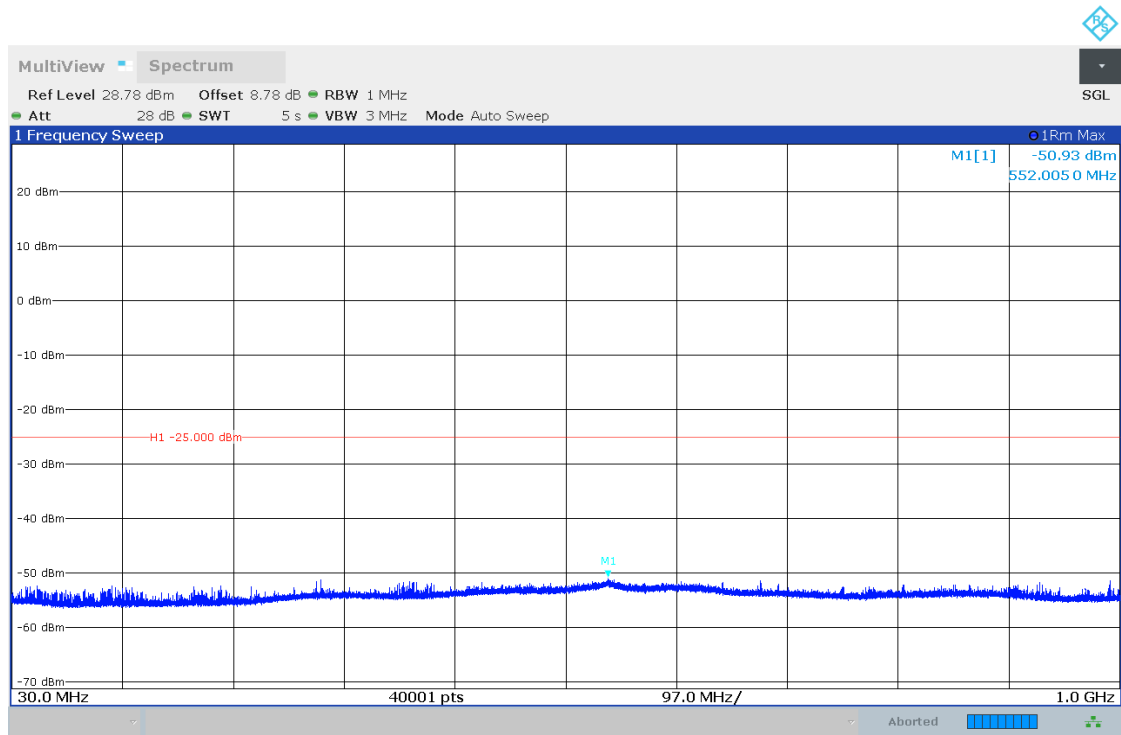
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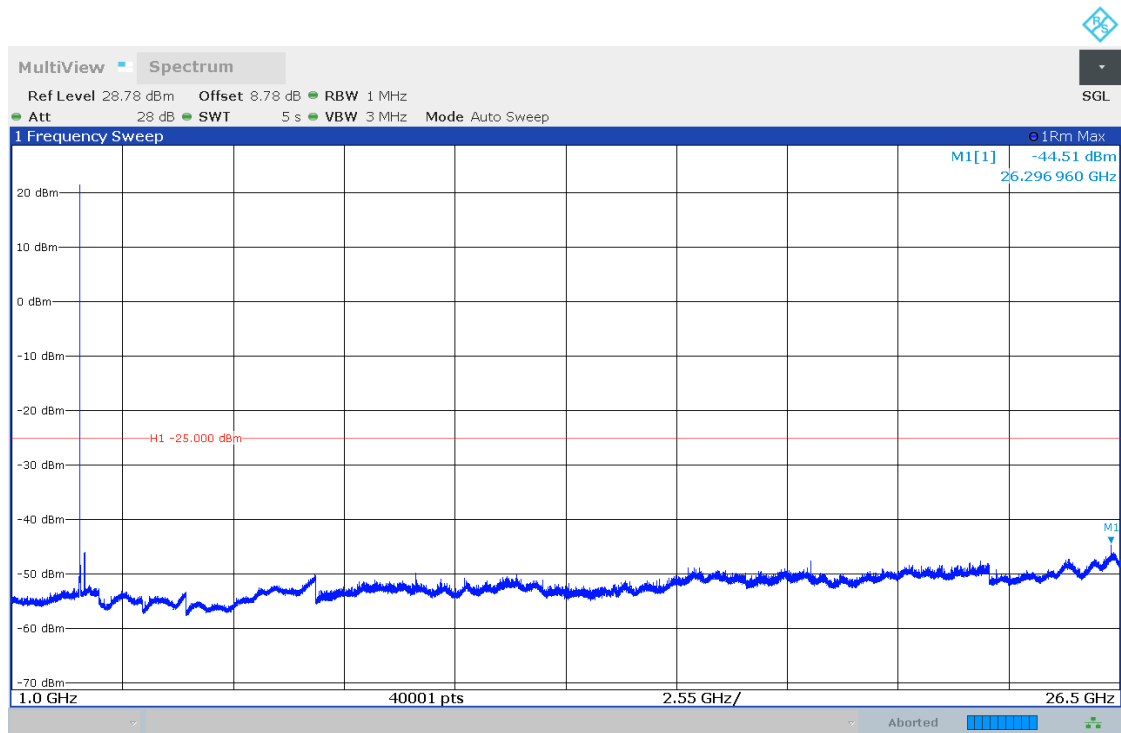
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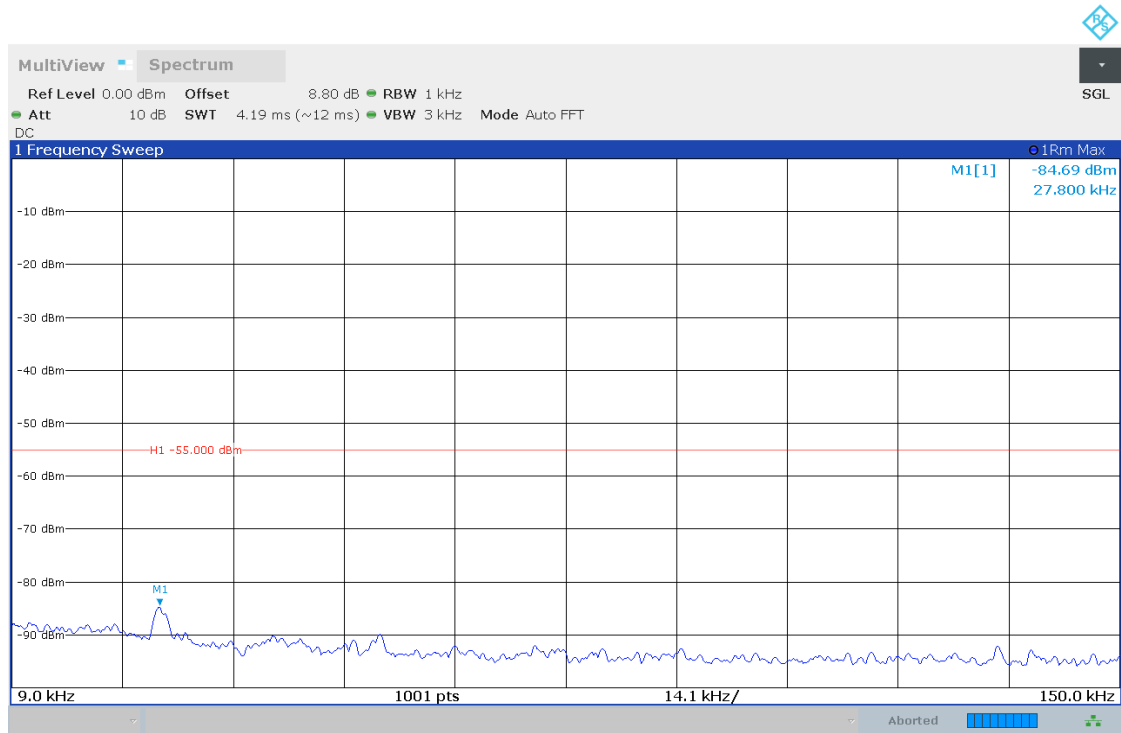


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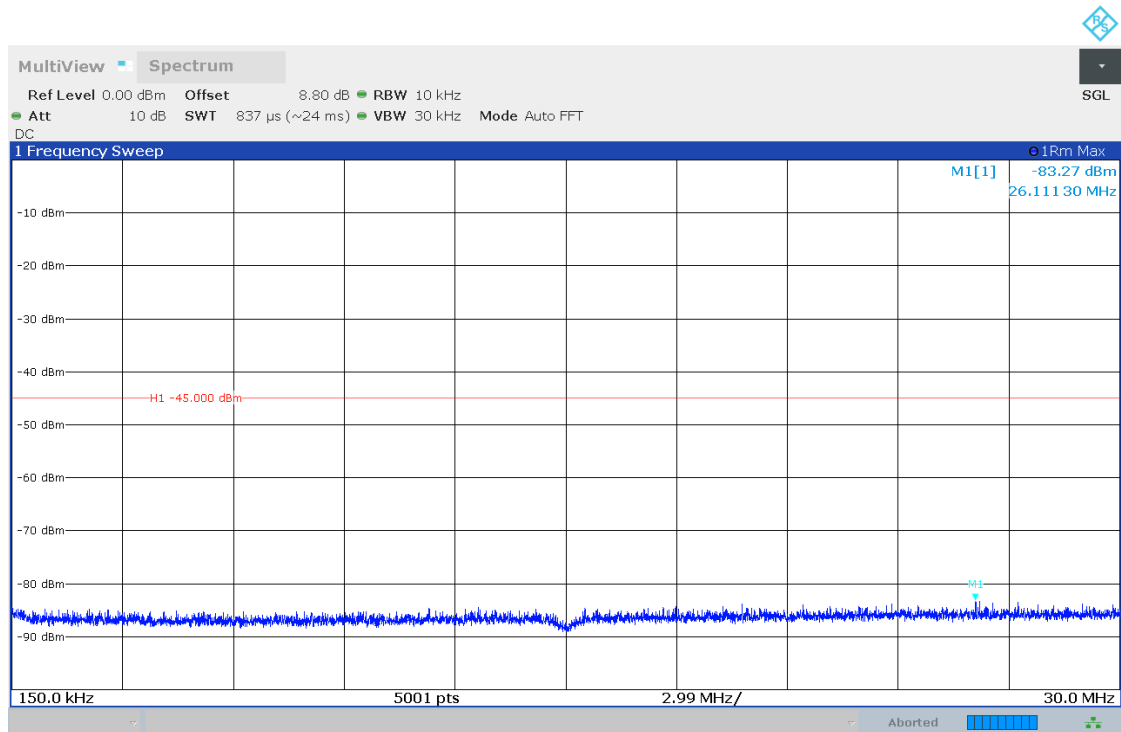


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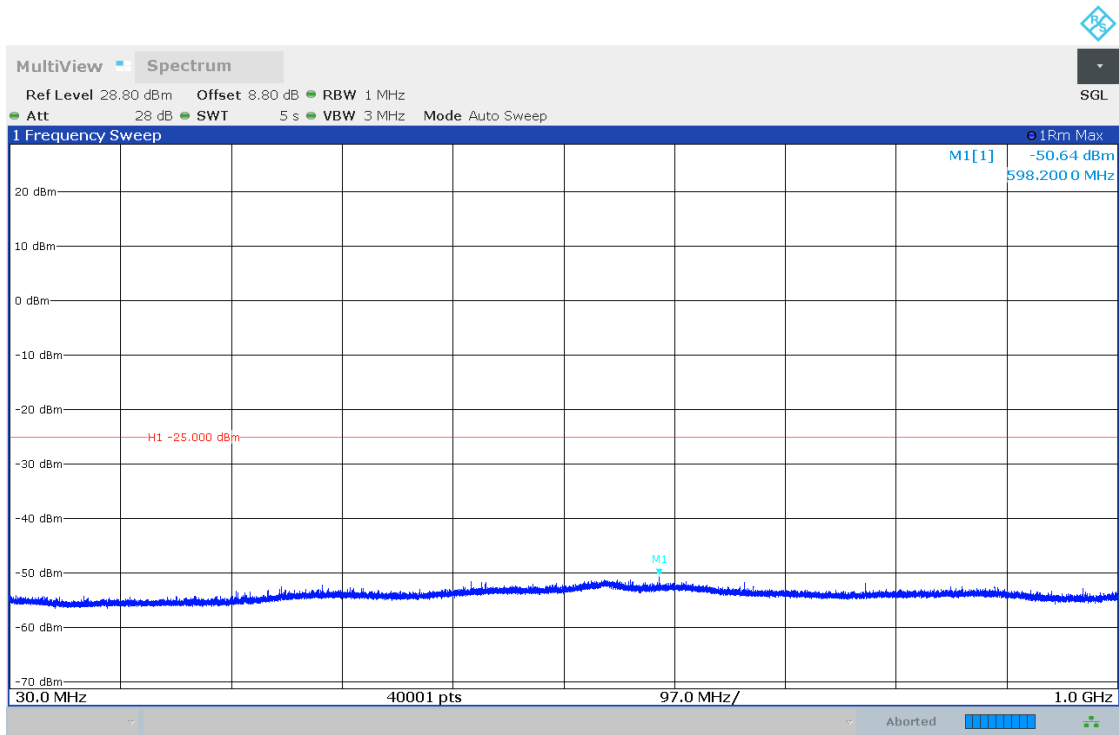
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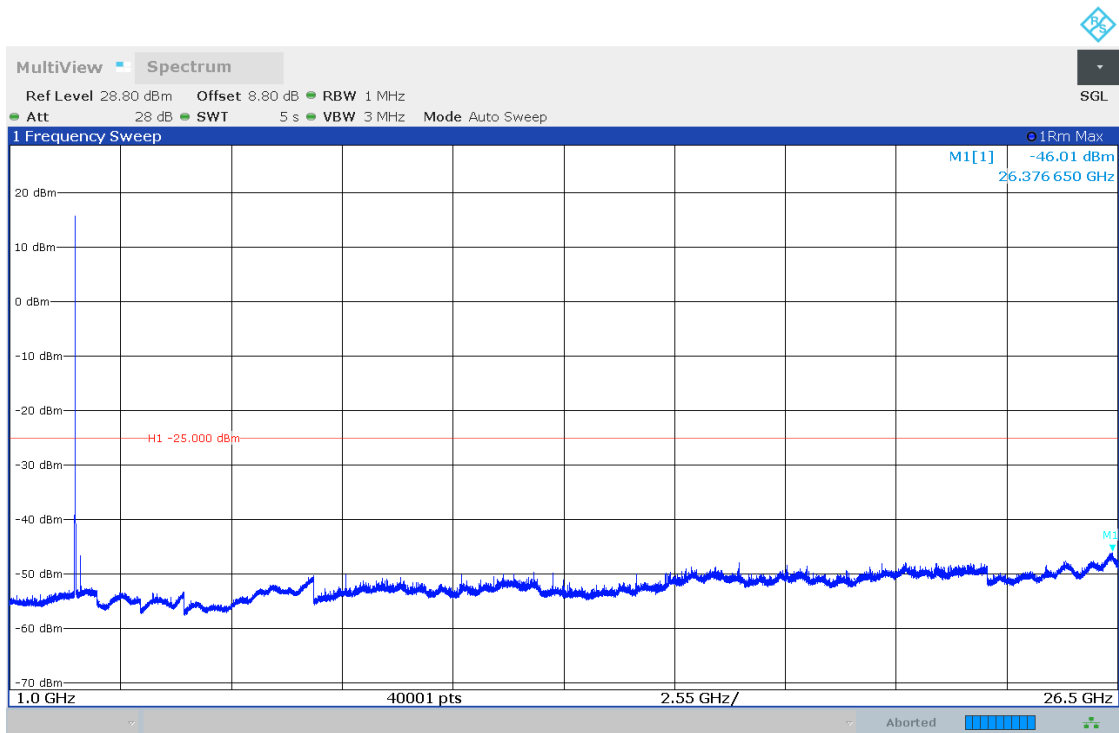
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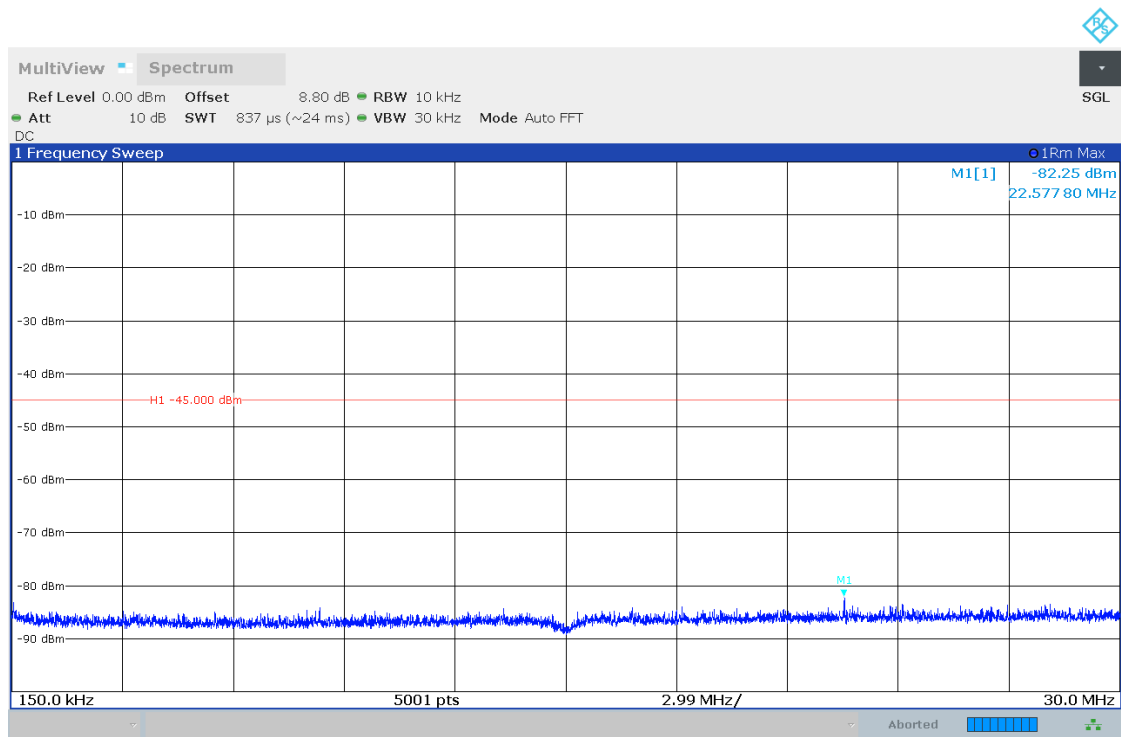


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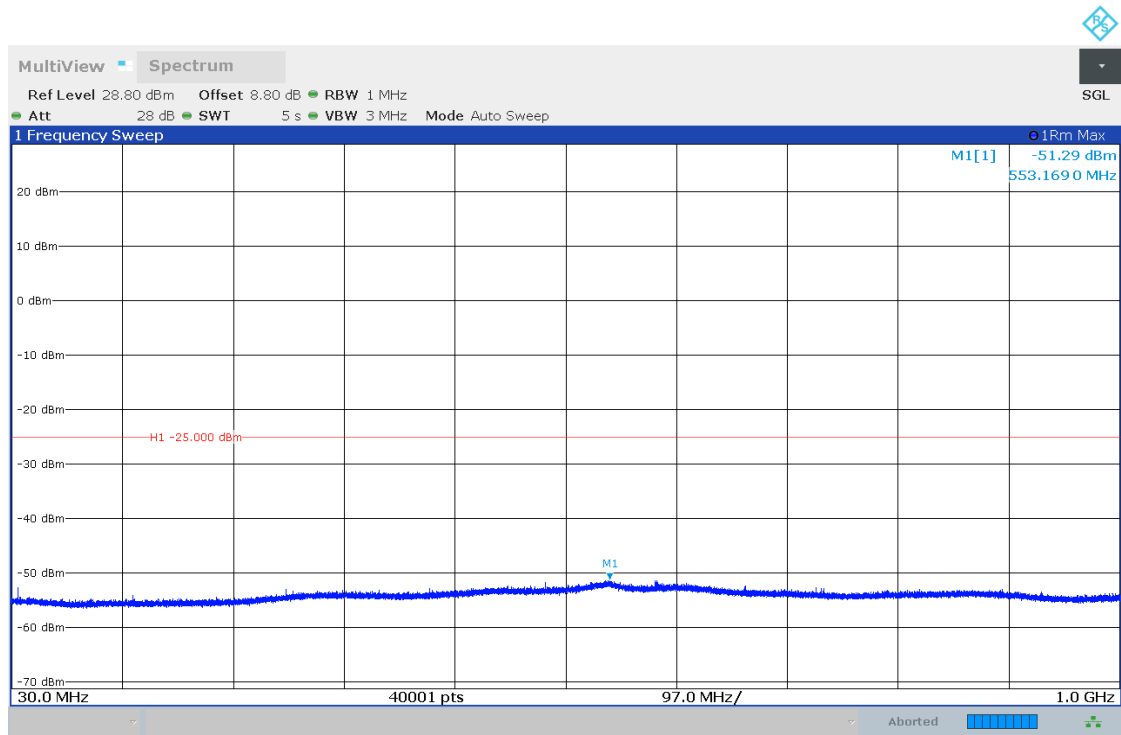
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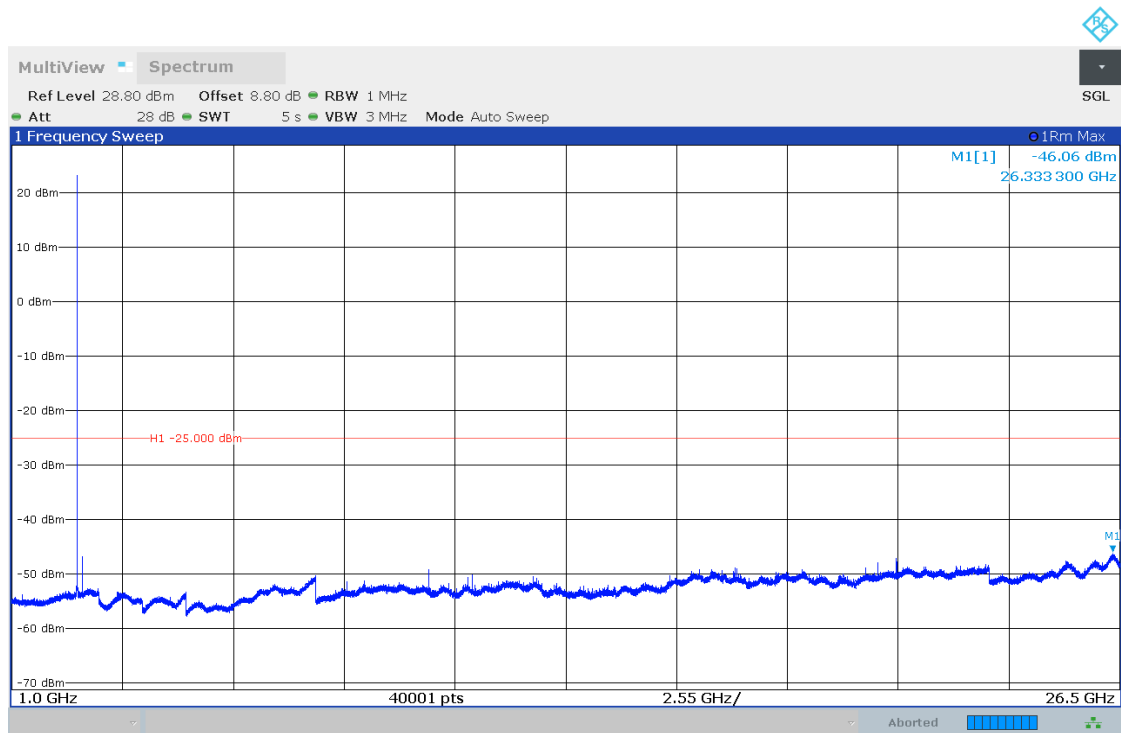
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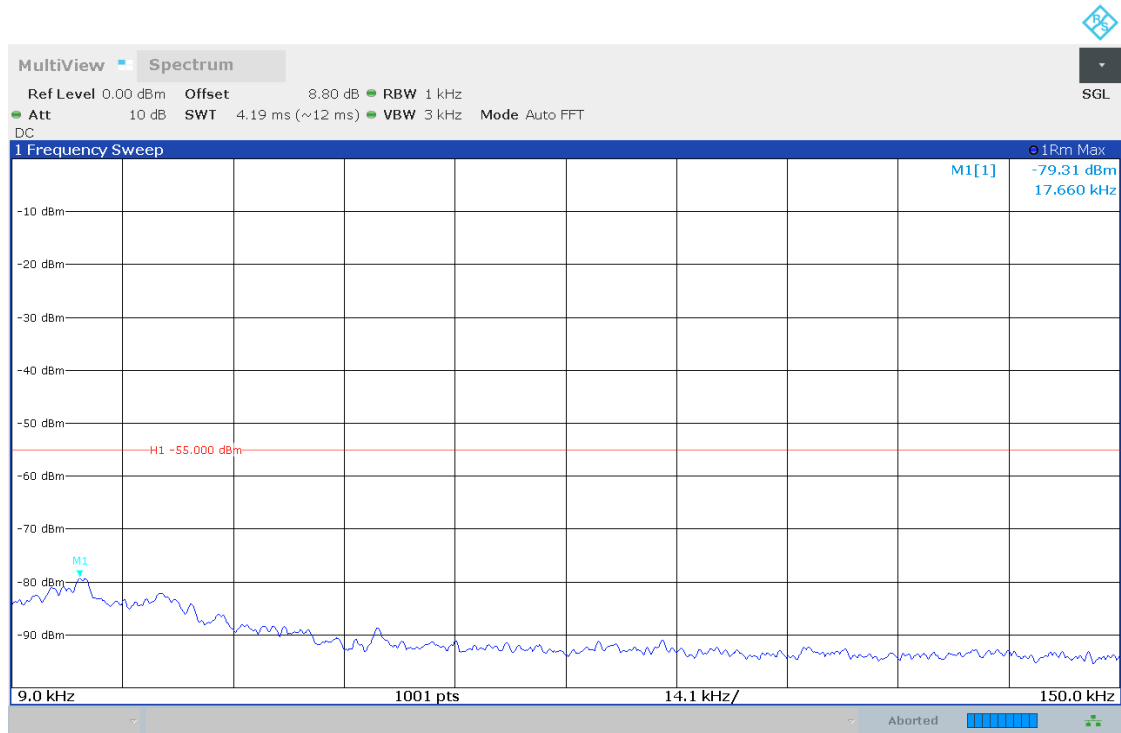


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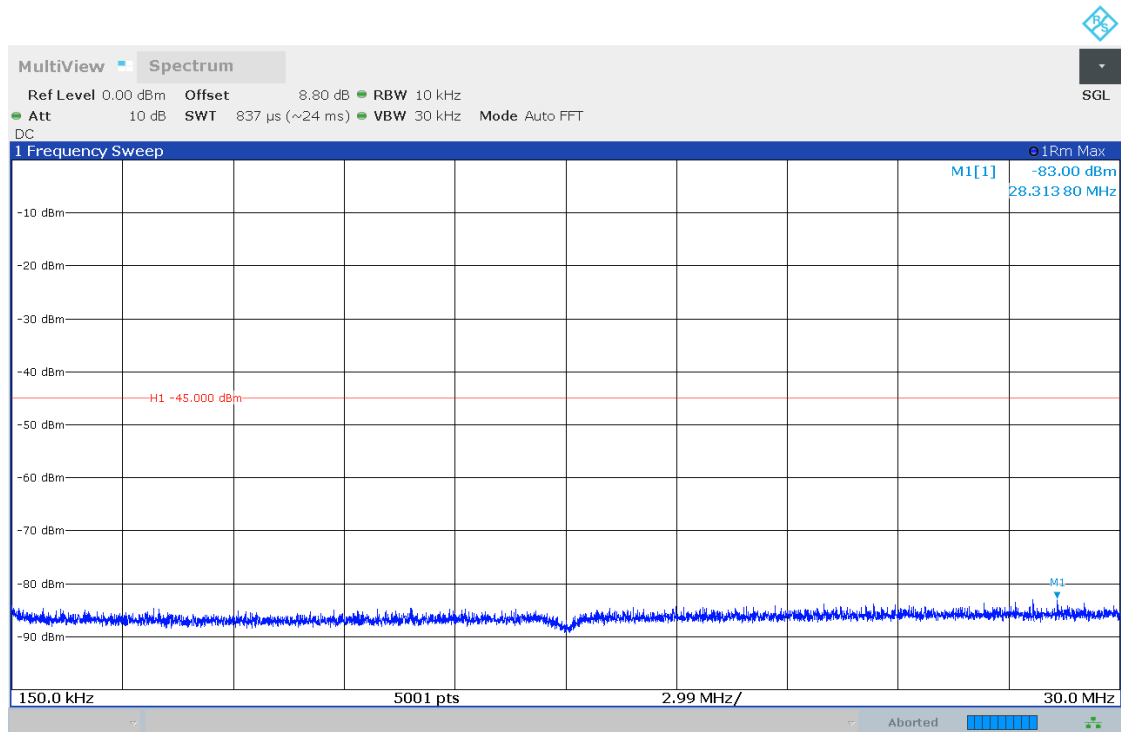


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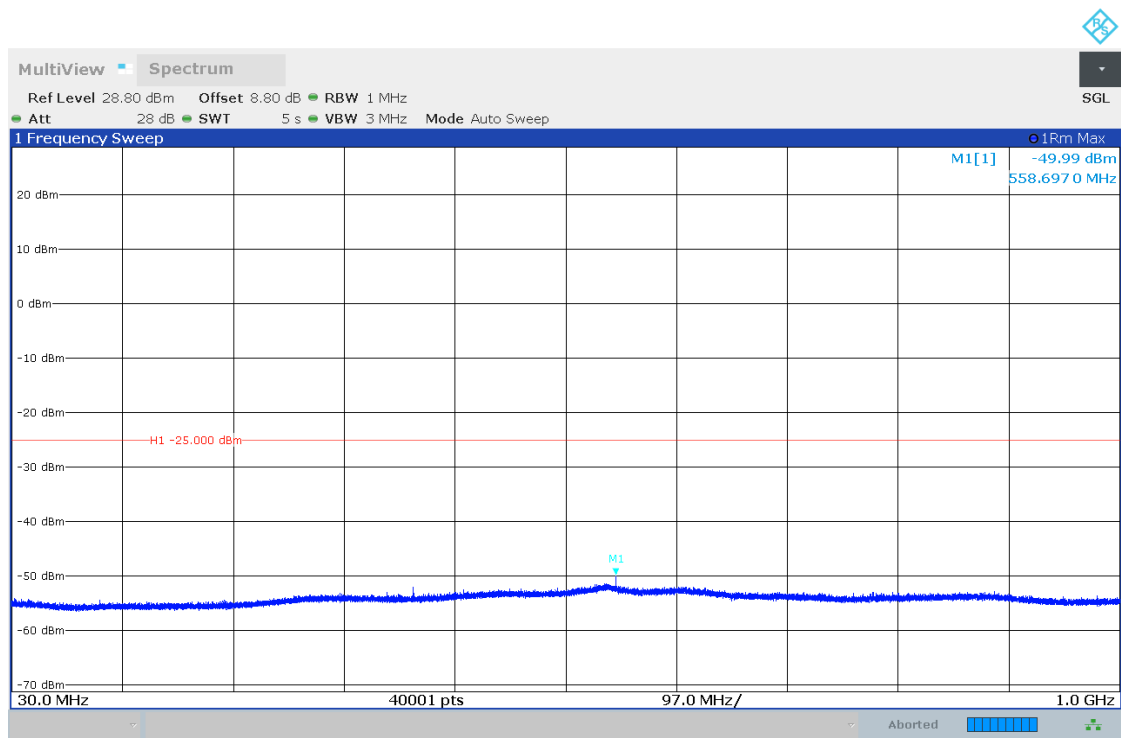
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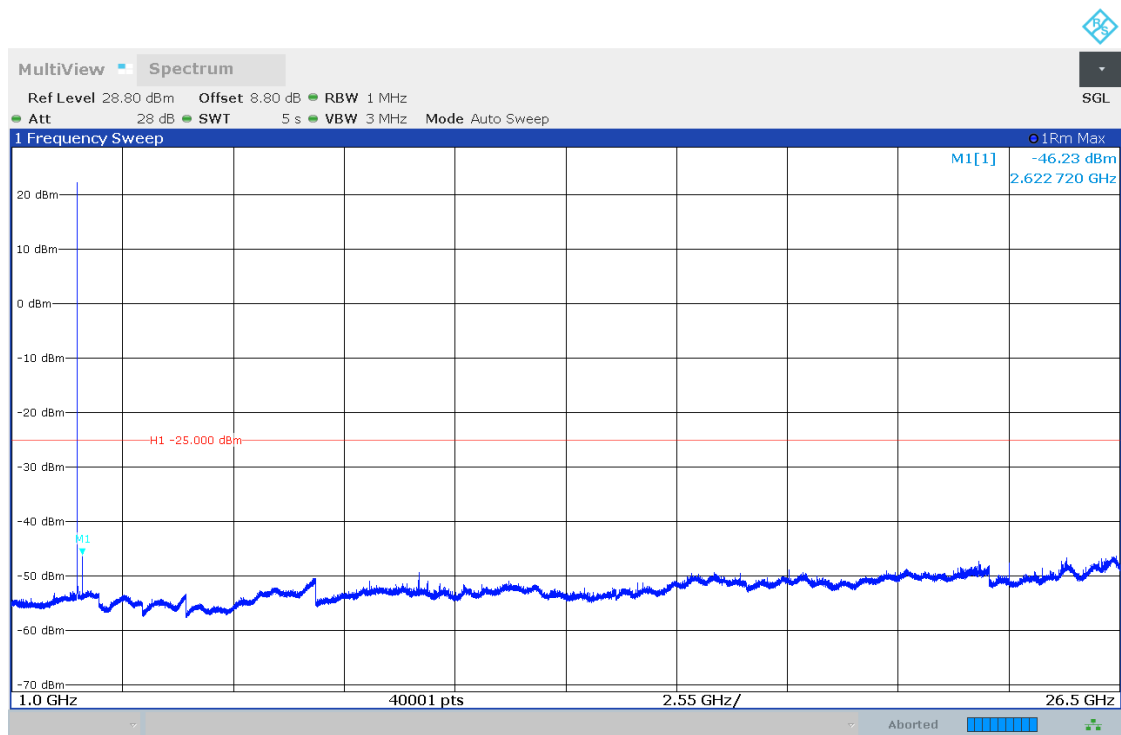
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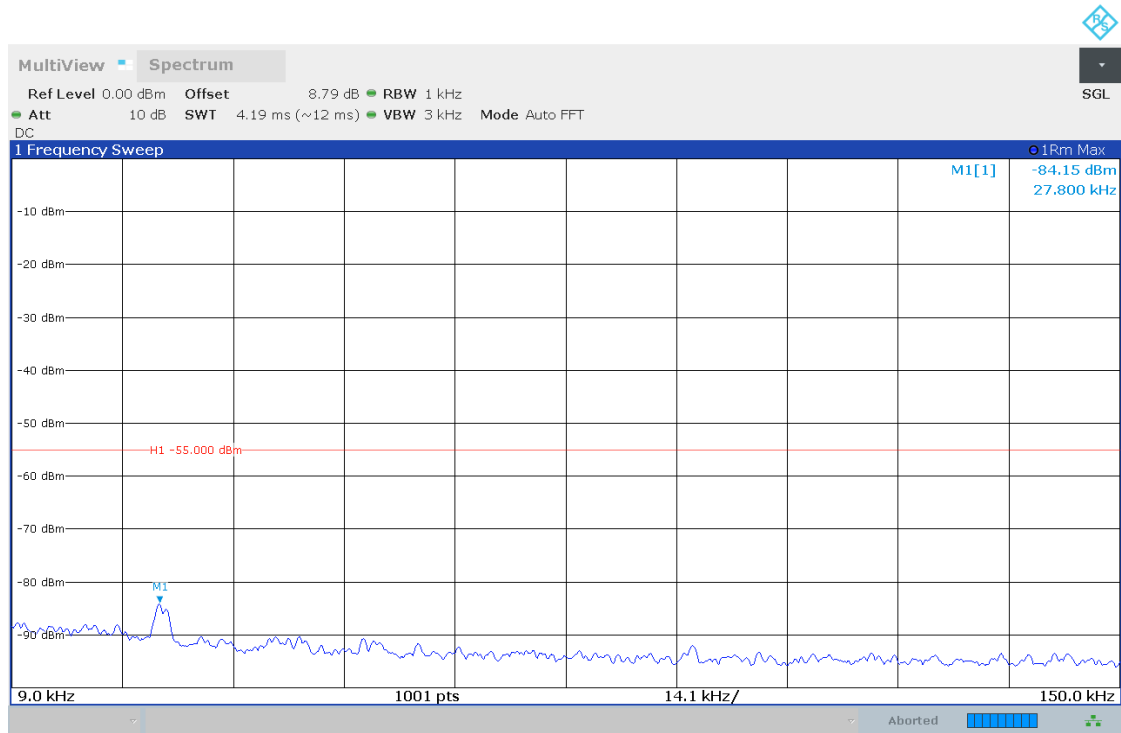


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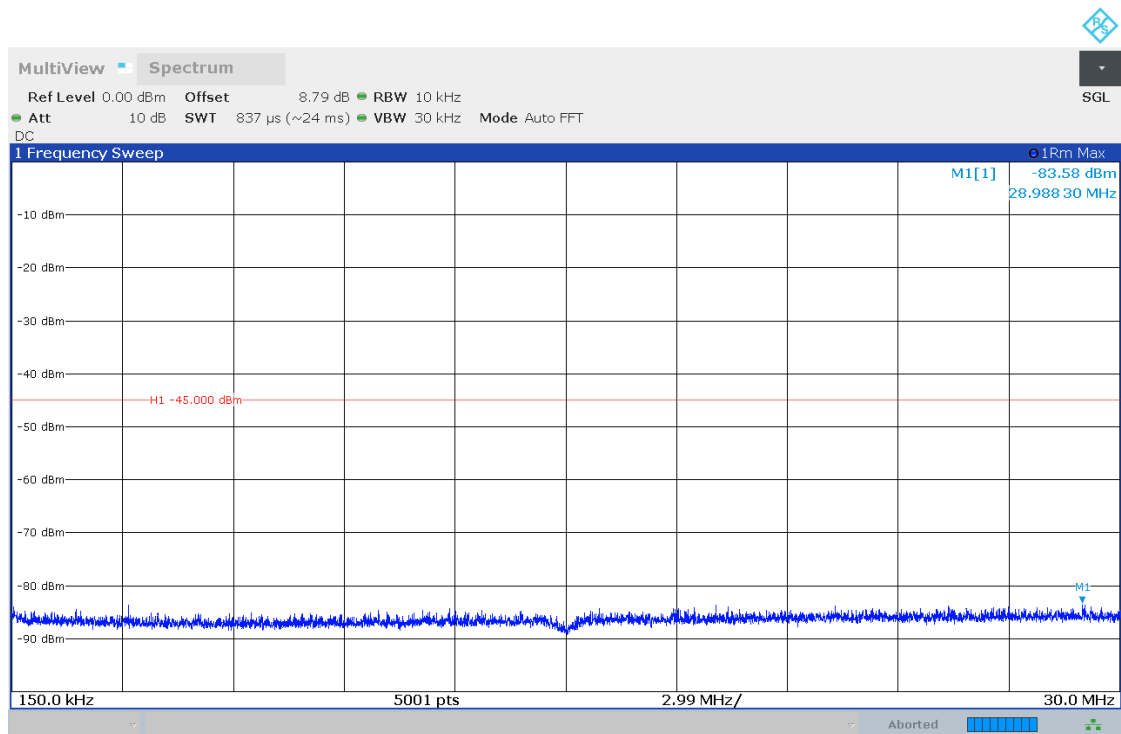


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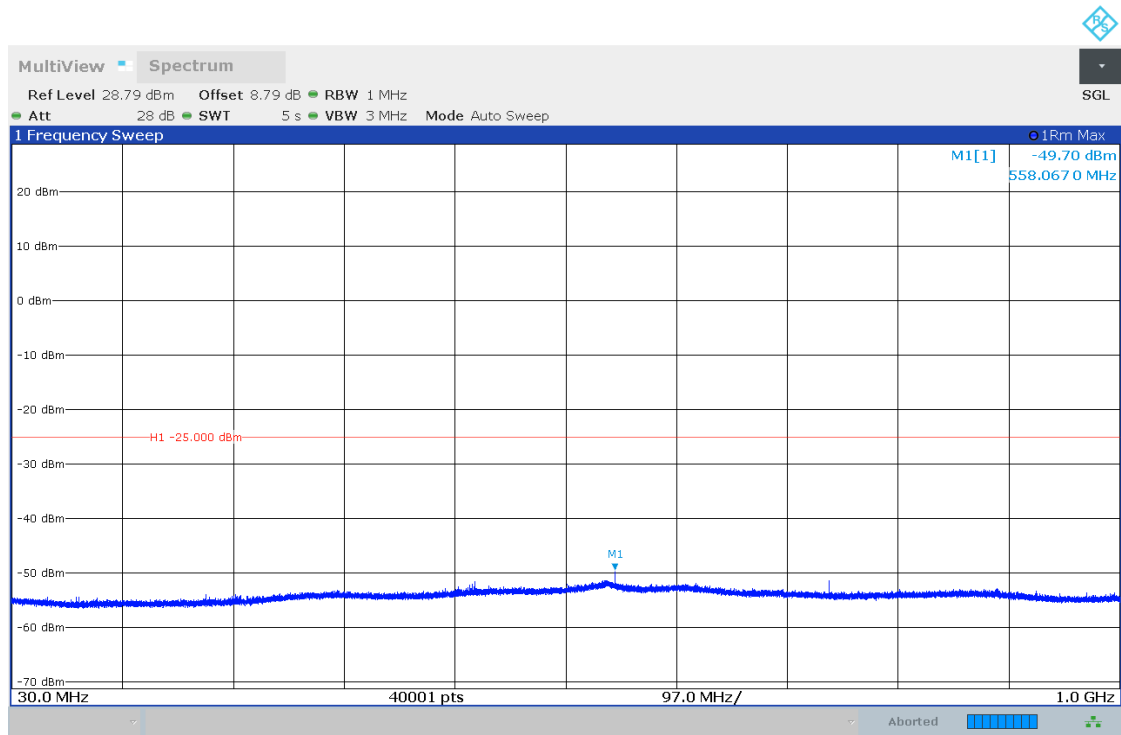
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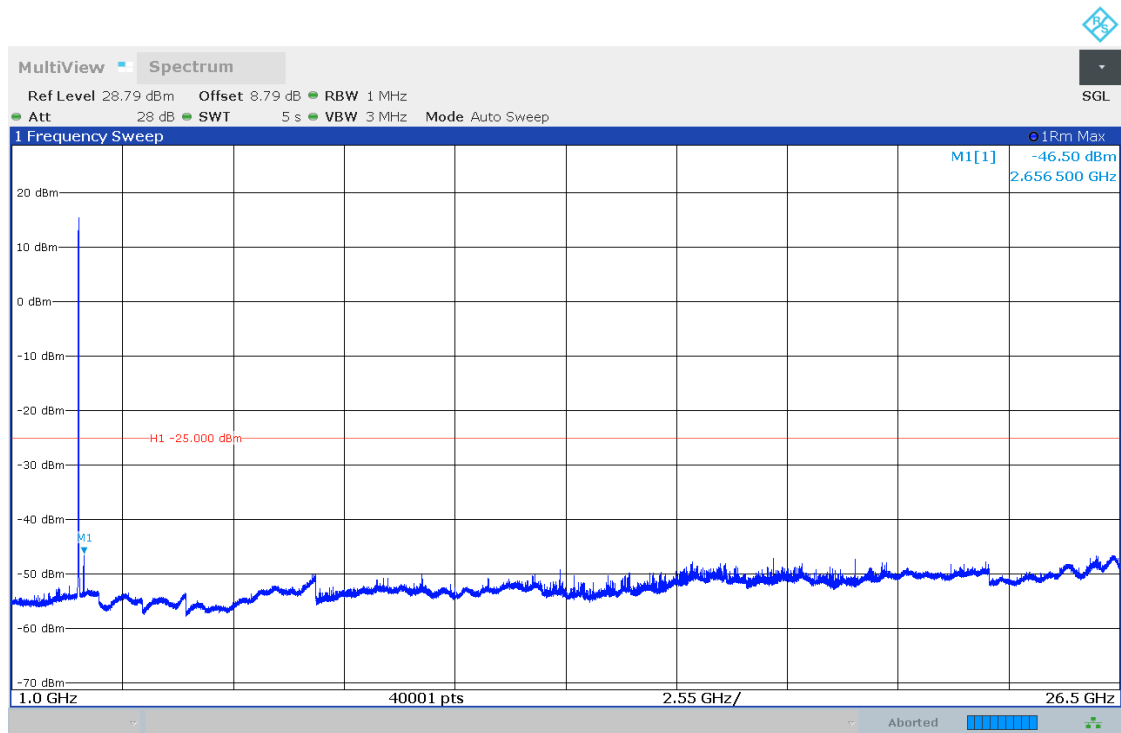
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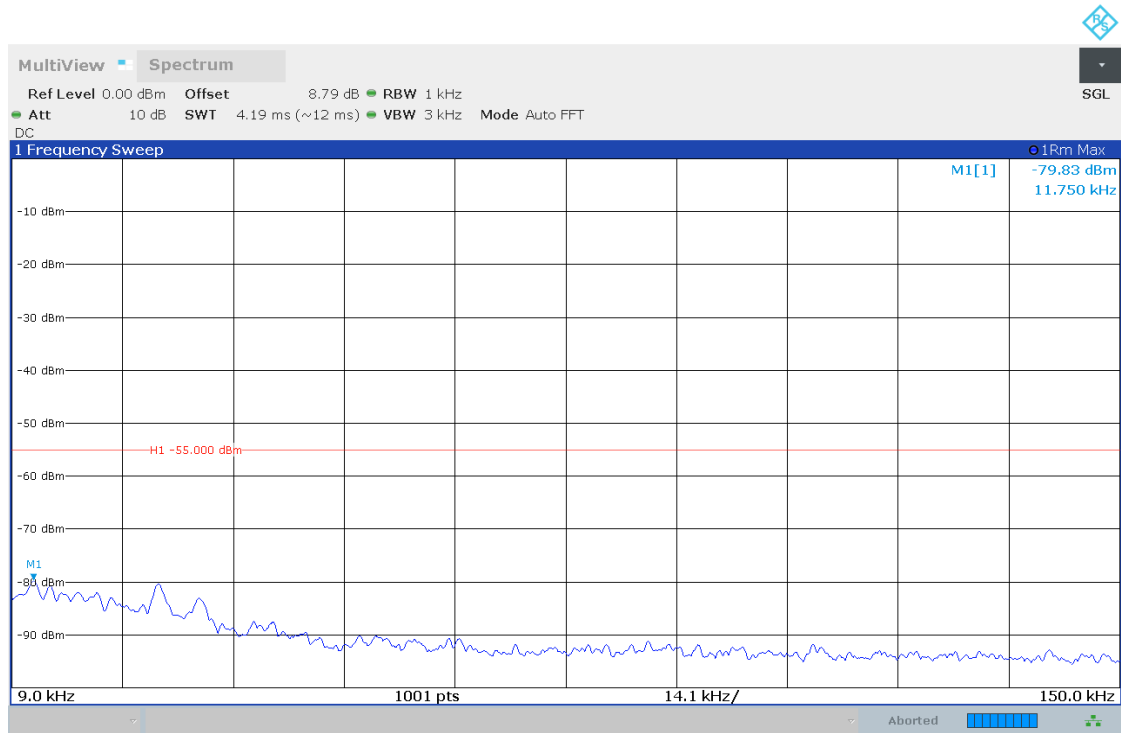


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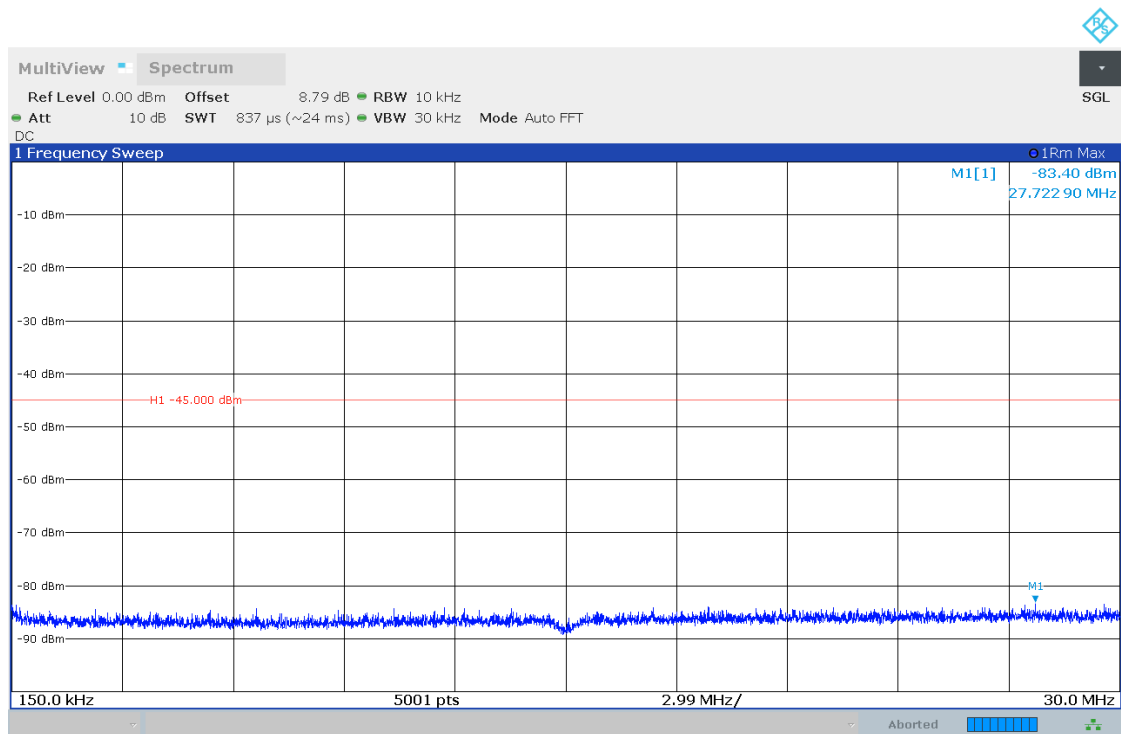


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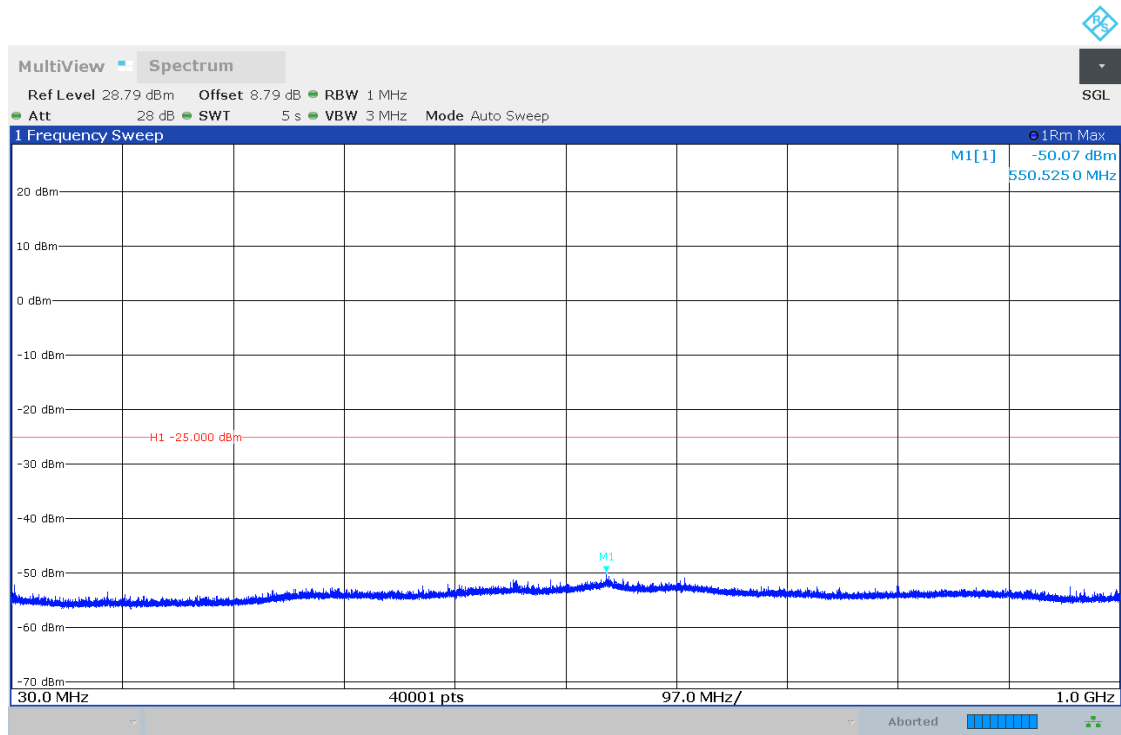
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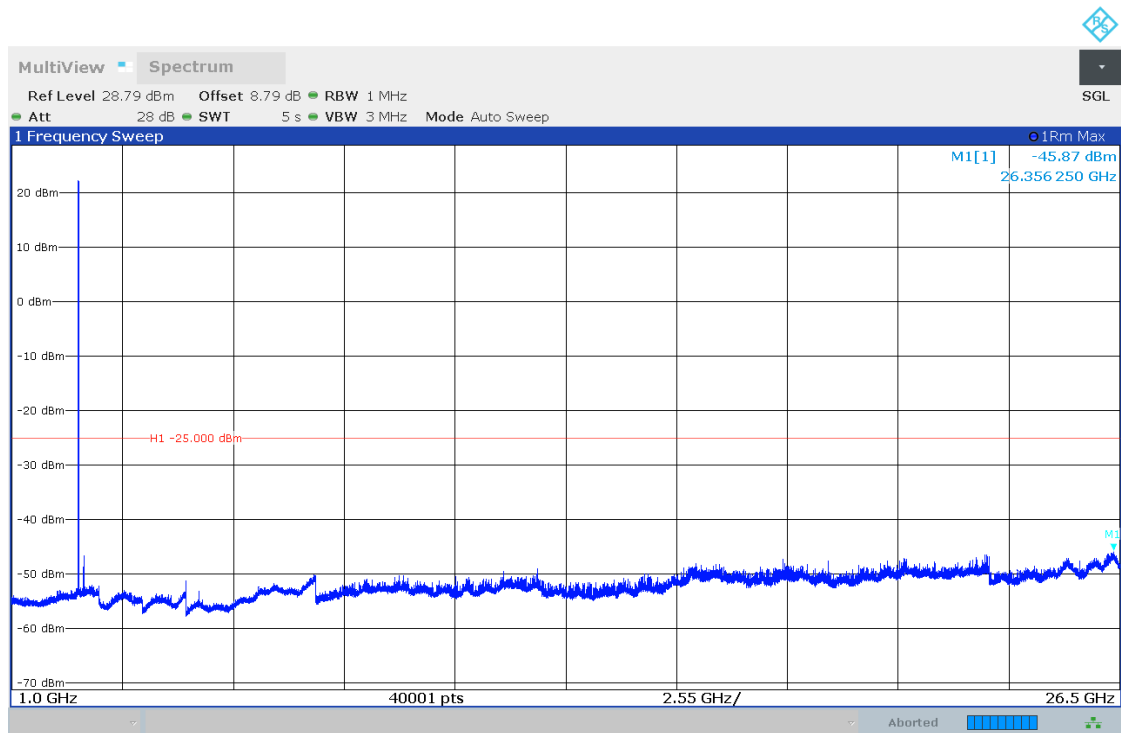
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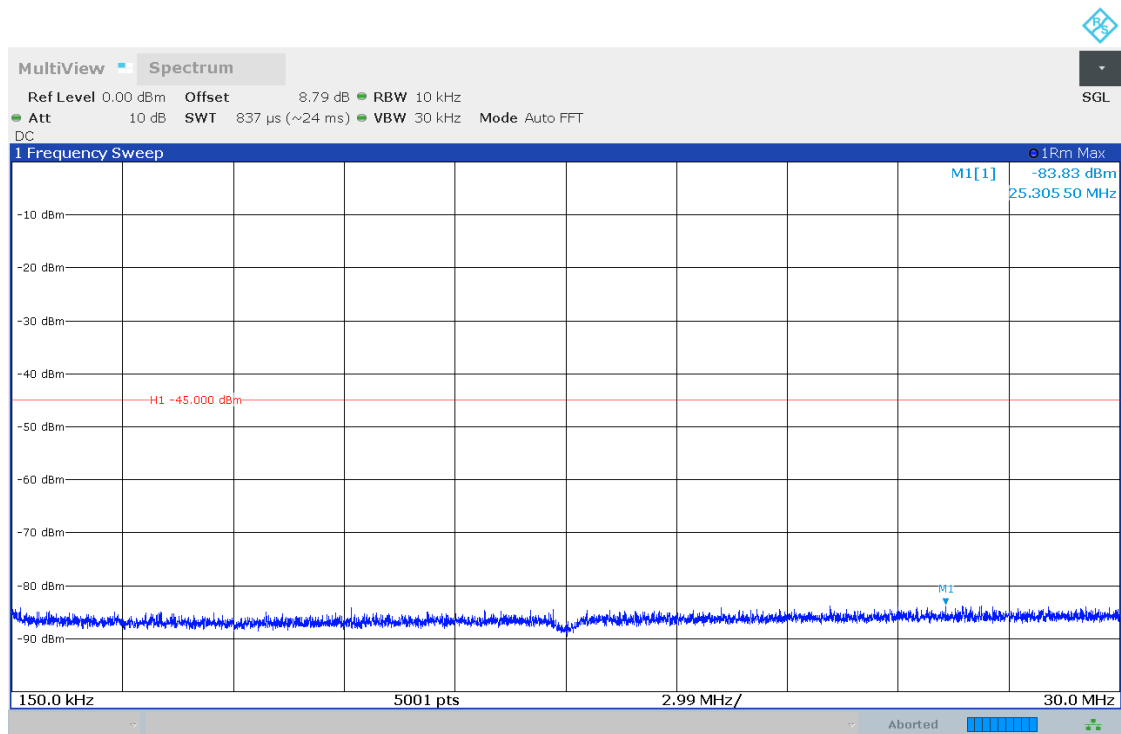


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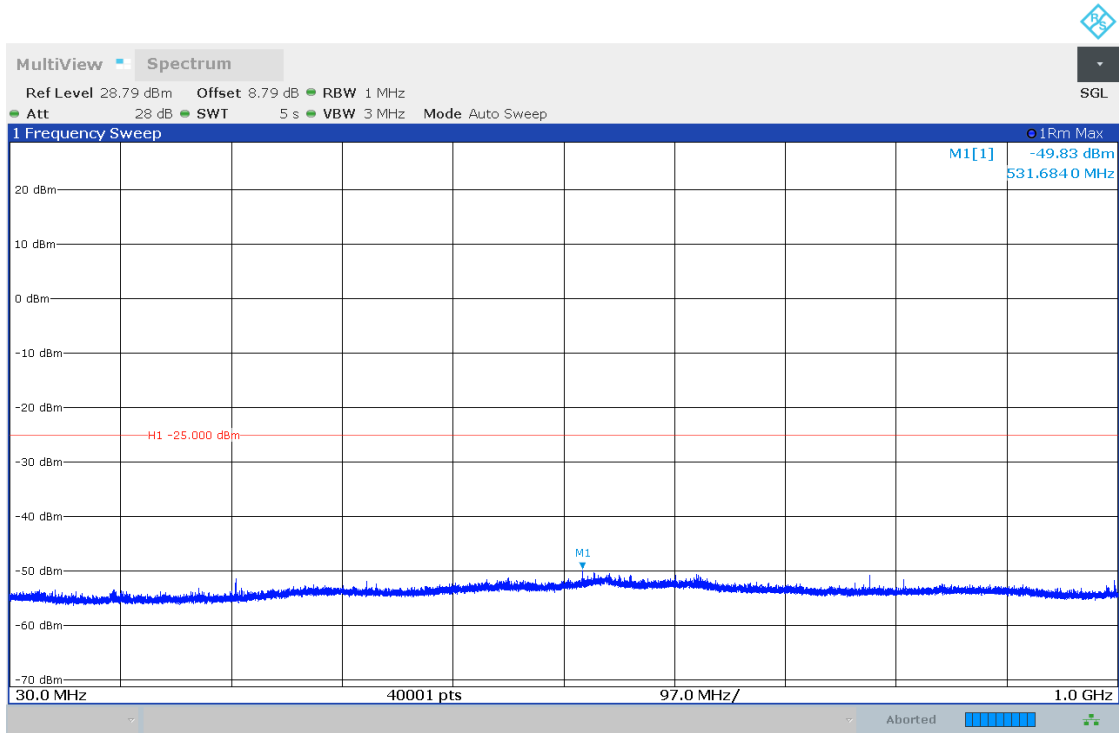
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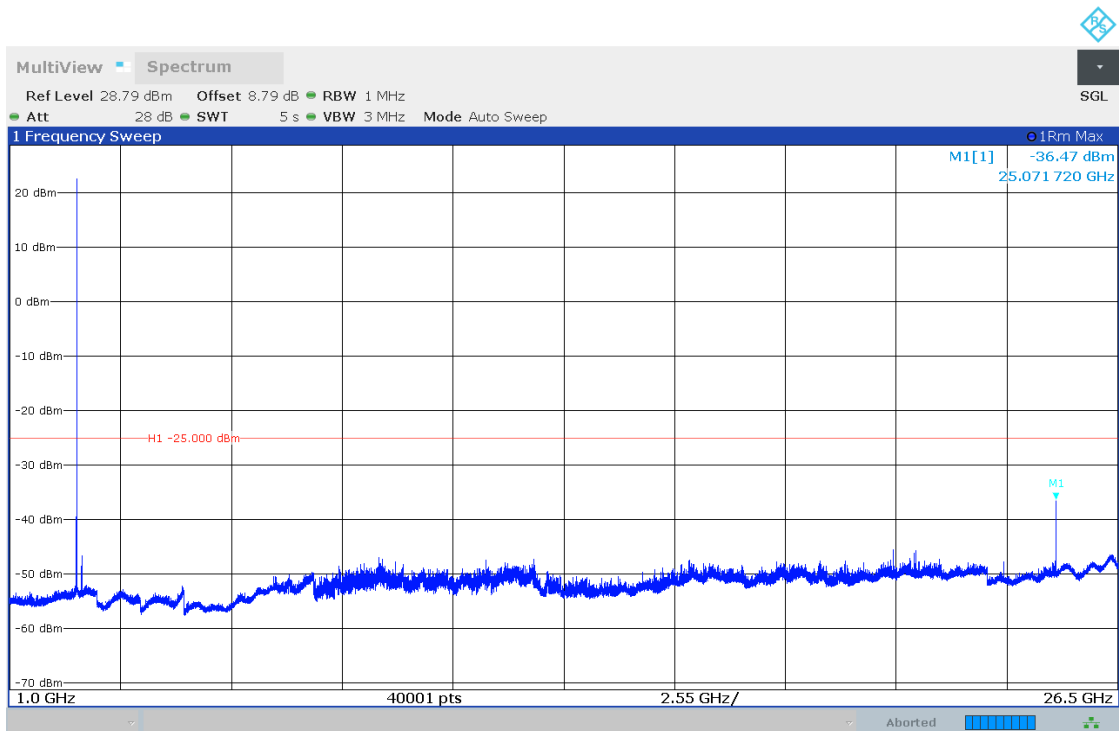
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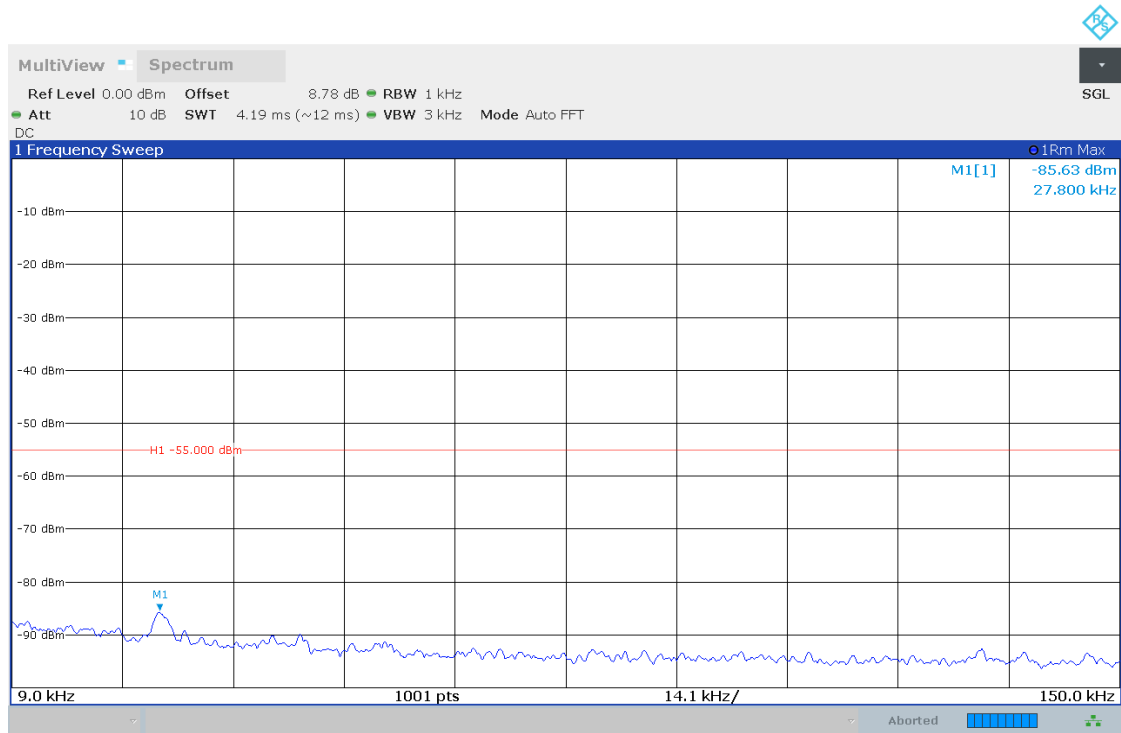


22:55:26 24.04.2022

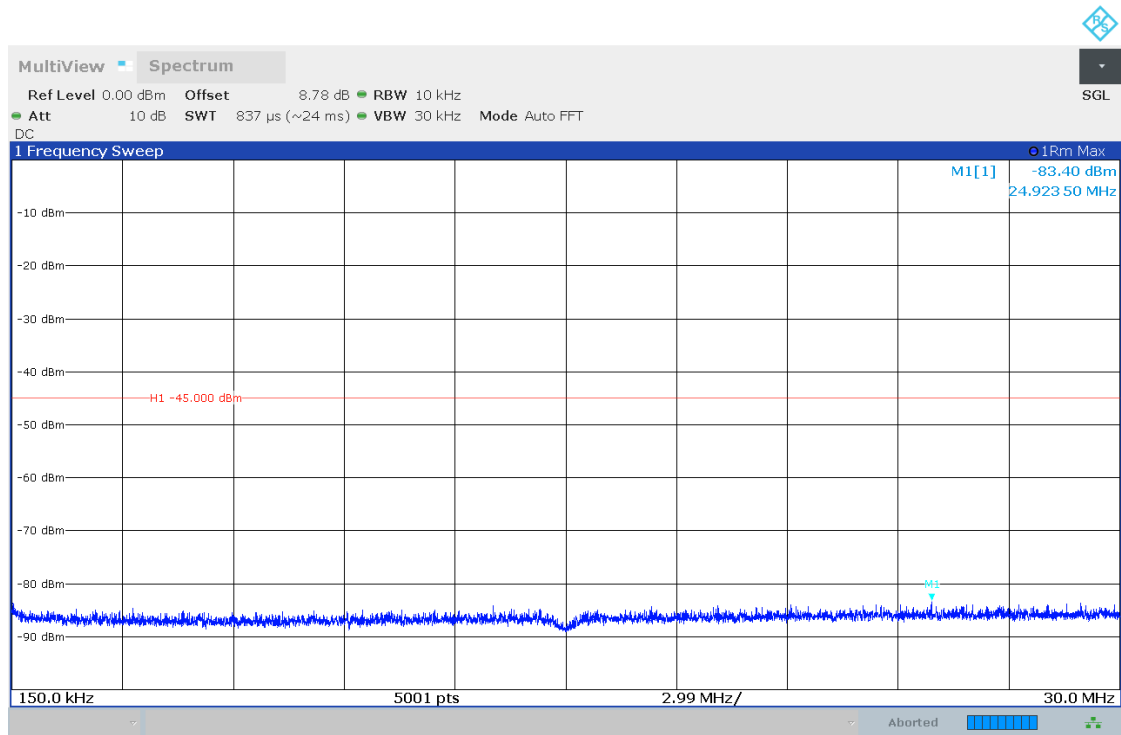


22:56:01 24.04.2022

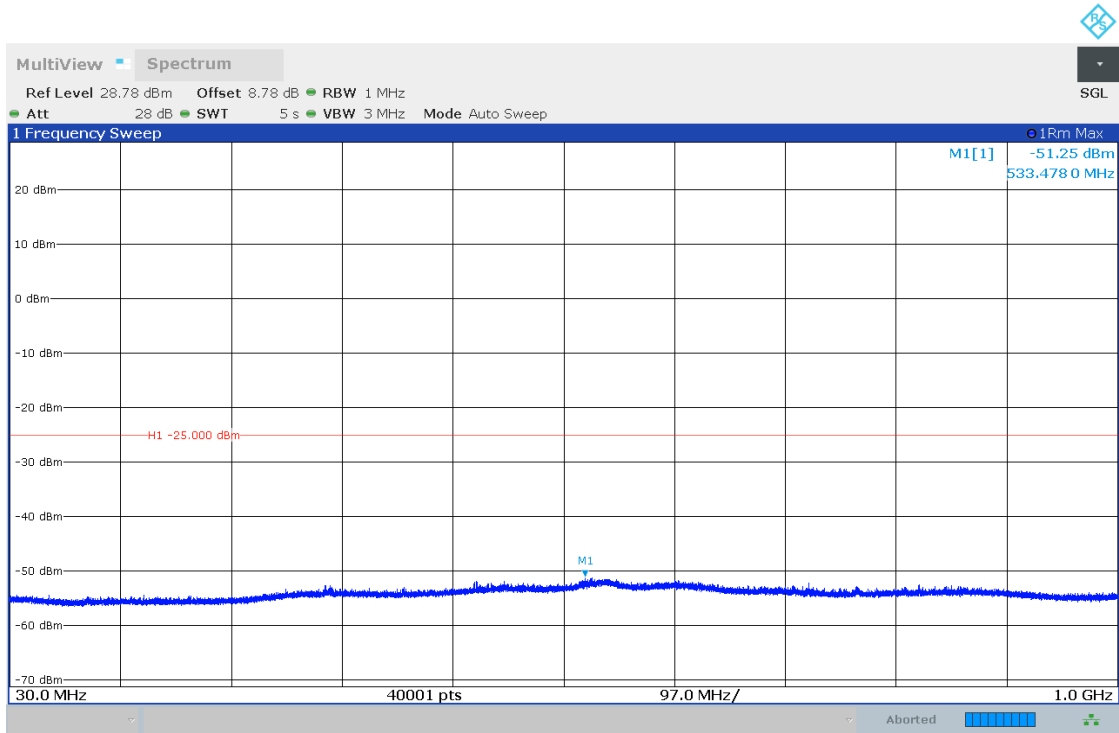
TM2_5MHz_HCH_RB25#0



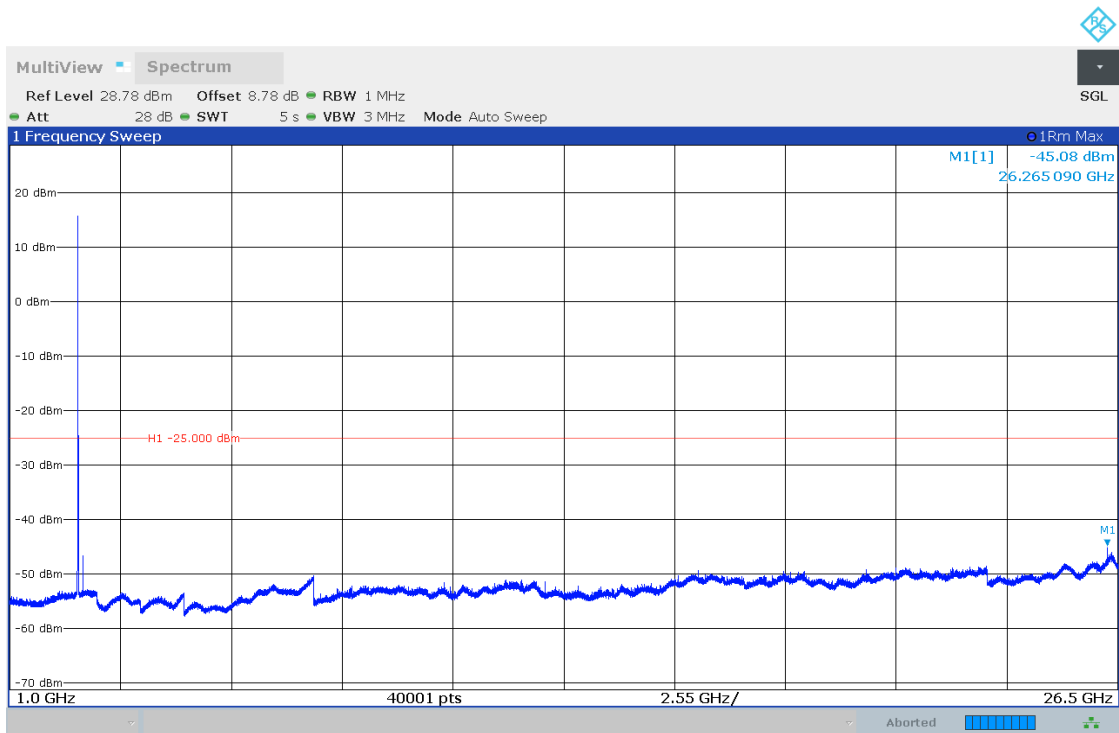
22:56:34 24.04.2022



22:57:03 24.04.2022

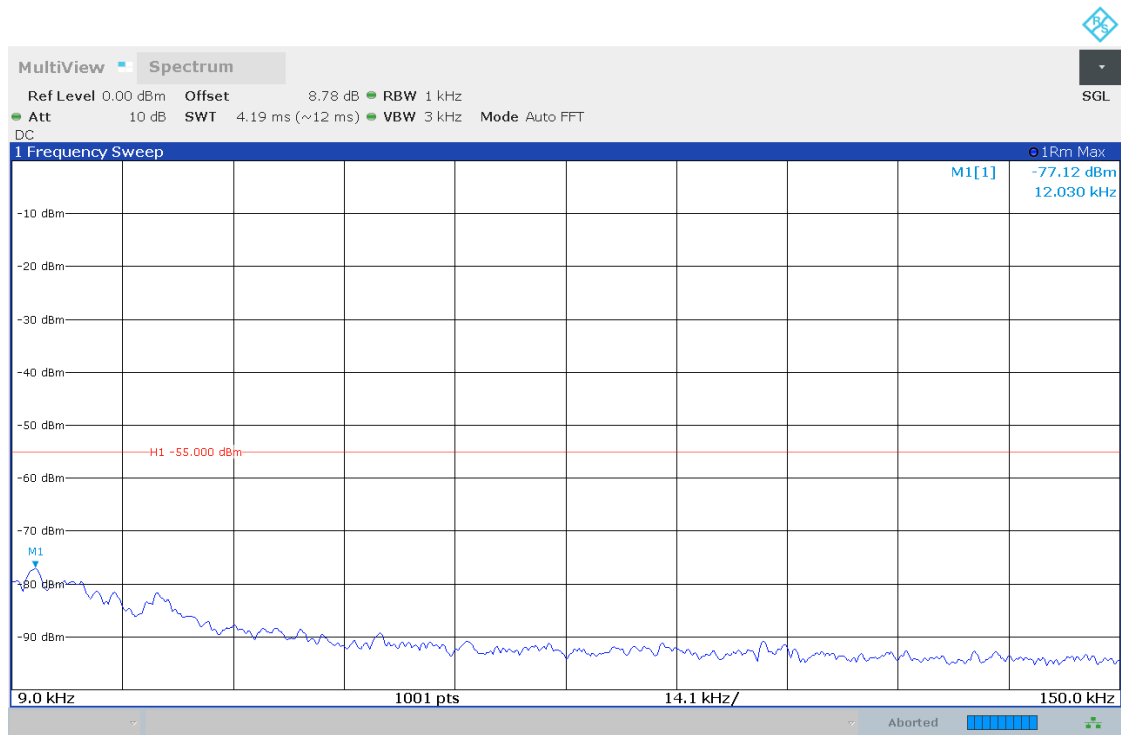


22:57:32 24.04.2022

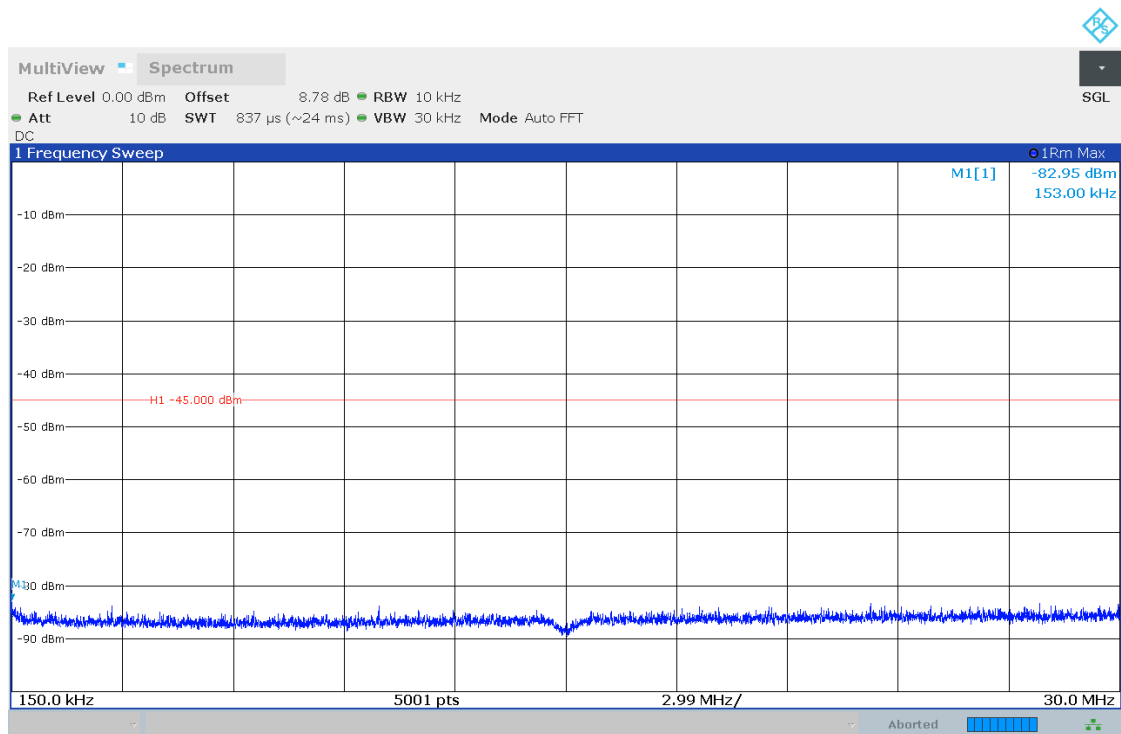


22:58:07 24.04.2022

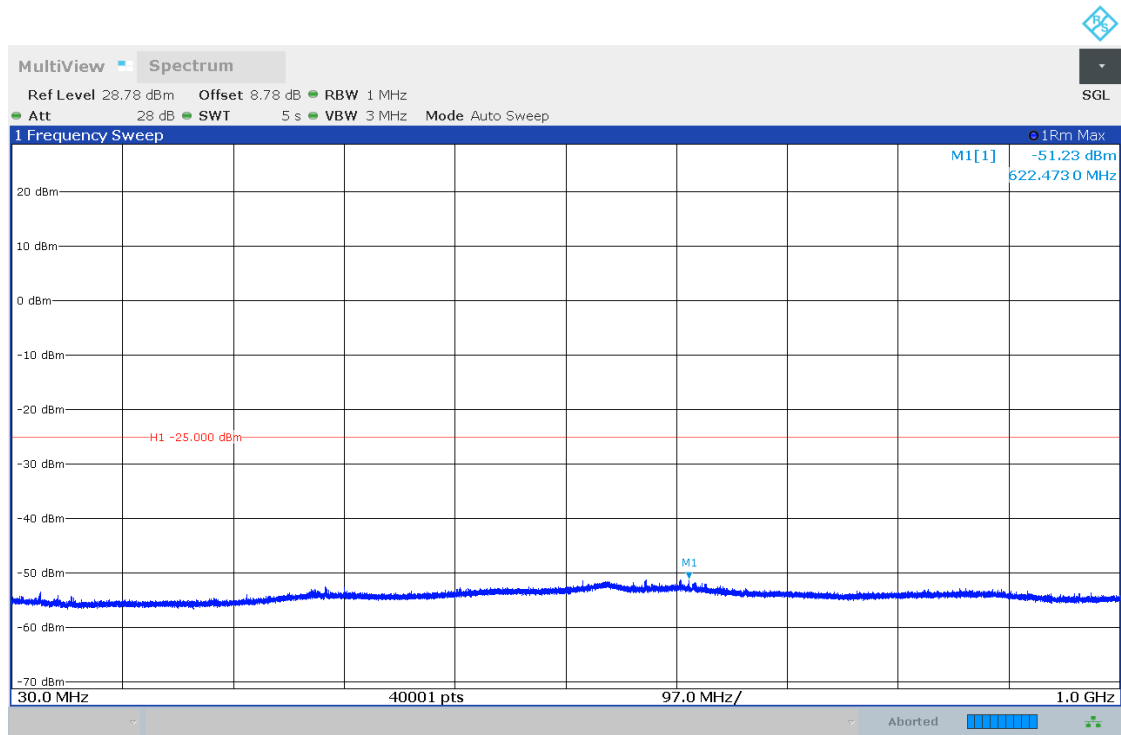
TM2_5MHz_HCH_RB1#0



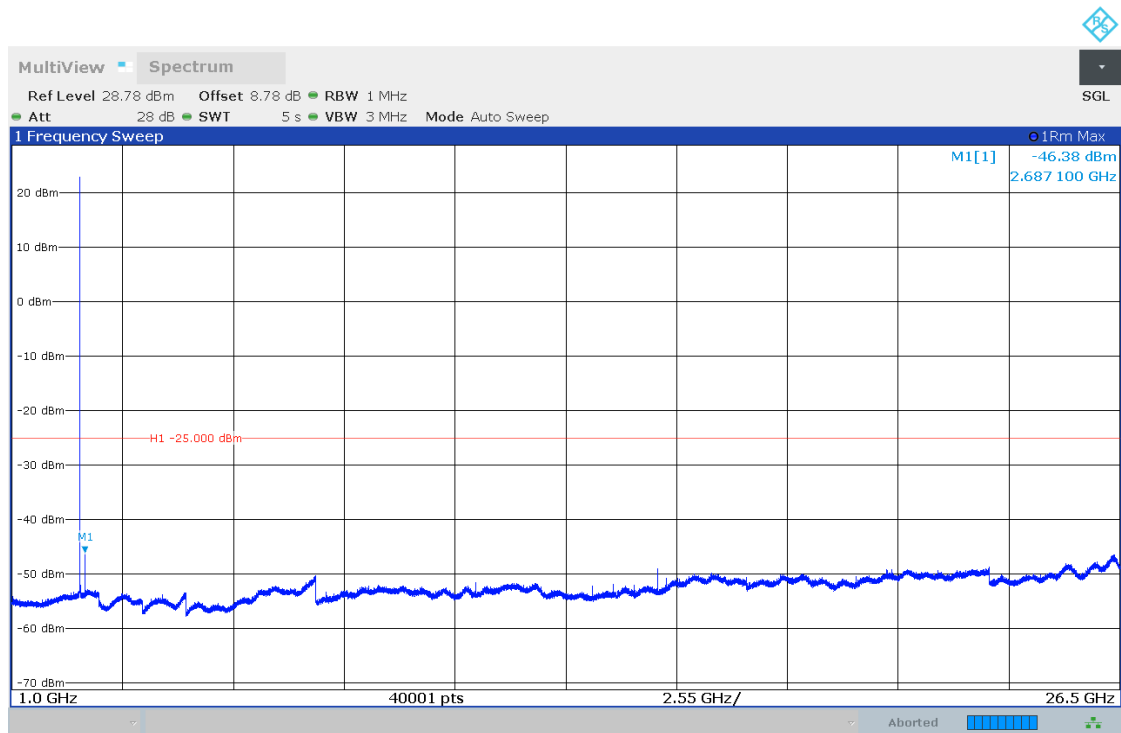
22:58:38 24.04.2022



22:59:07 24.04.2022



22:59:36 24.04.2022

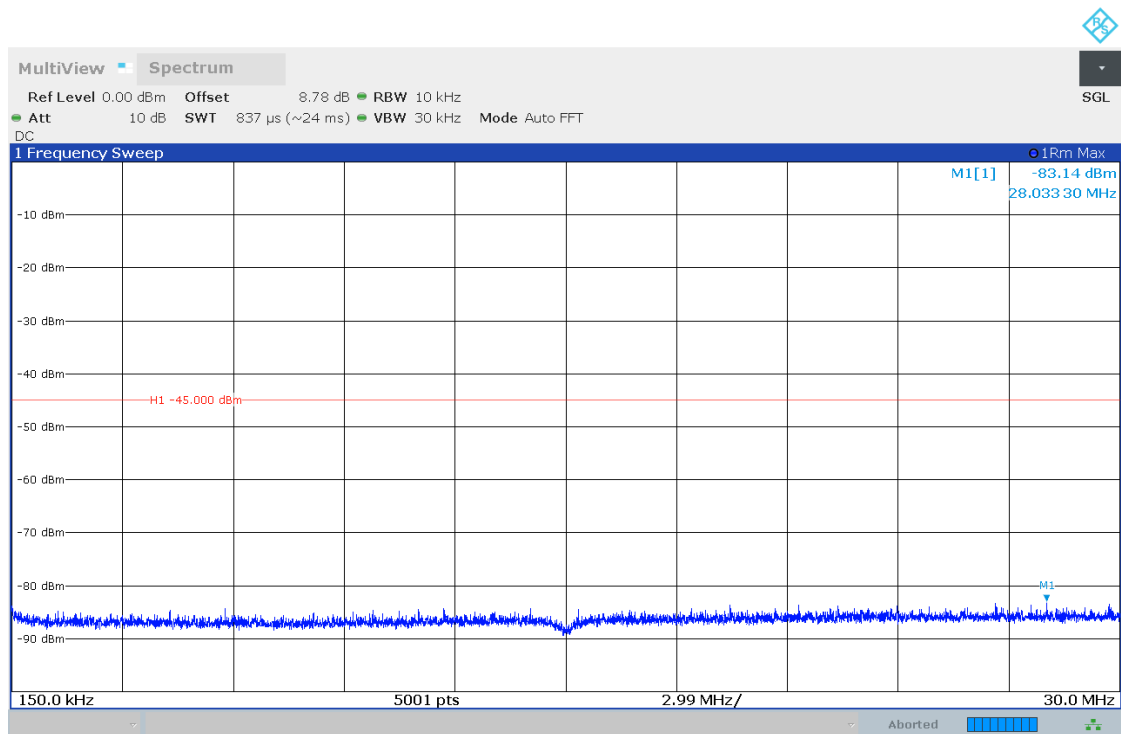


23:00:11 24.04.2022

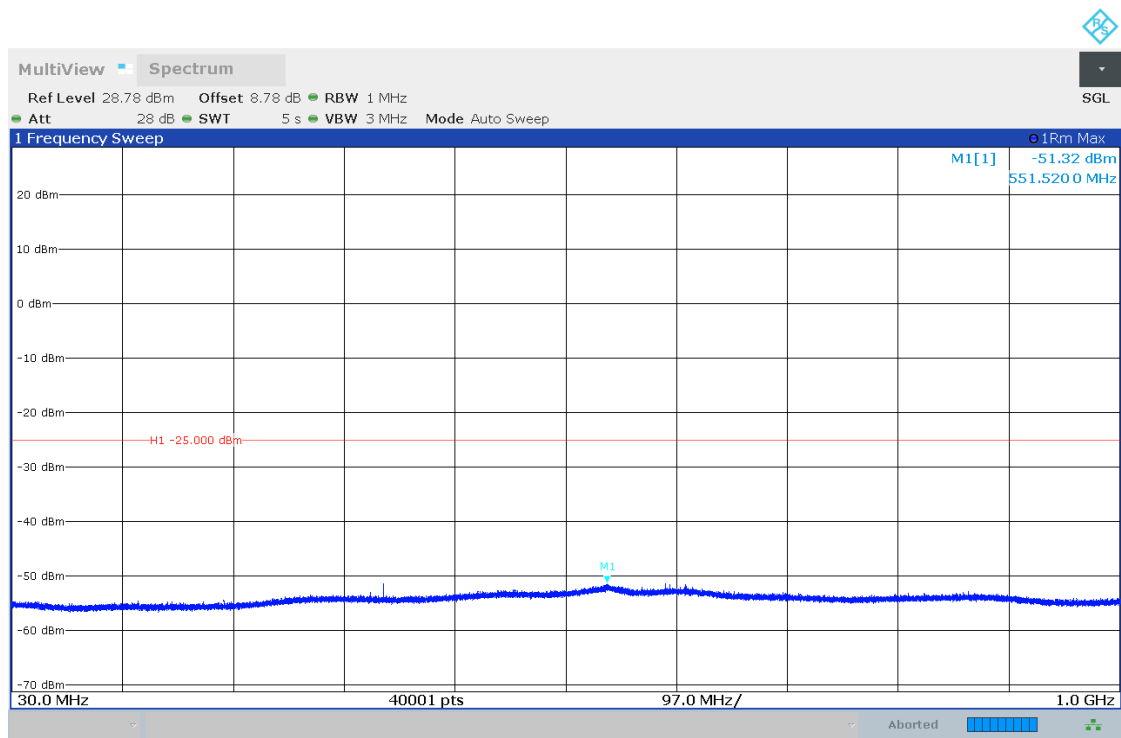
TM2_5MHz_HCH_RB1#24



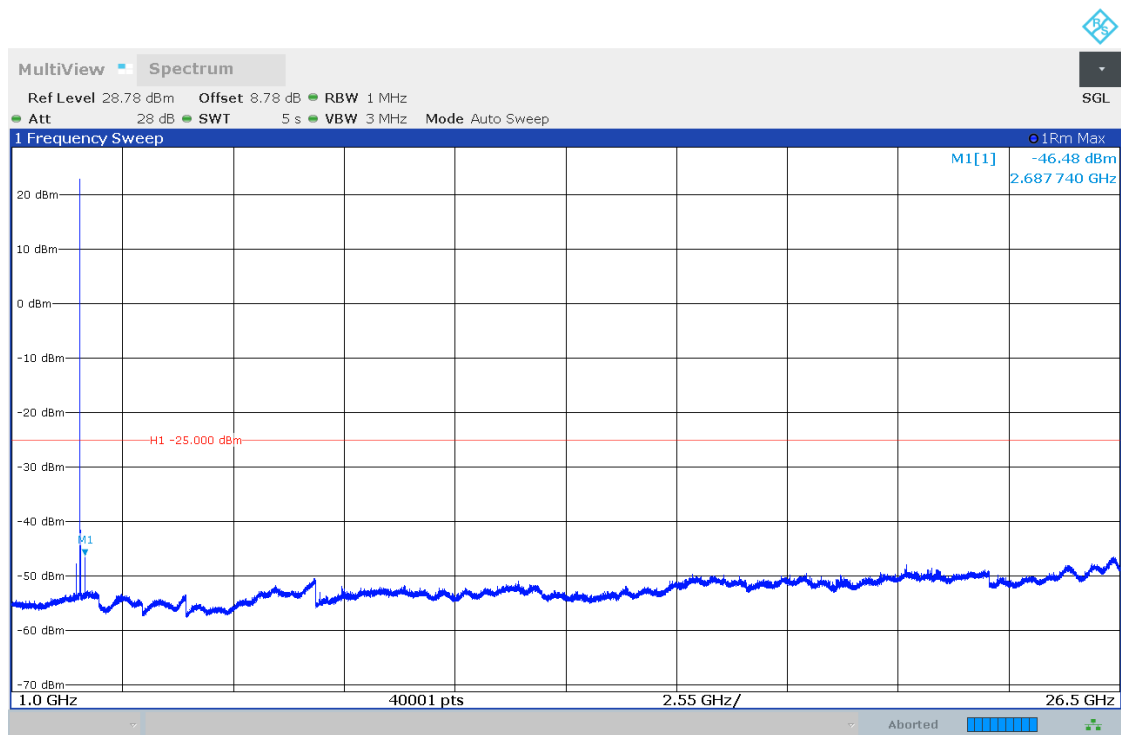
23:00:42 24.04.2022



23:01:11 24.04.2022



23:01:40 24.04.2022

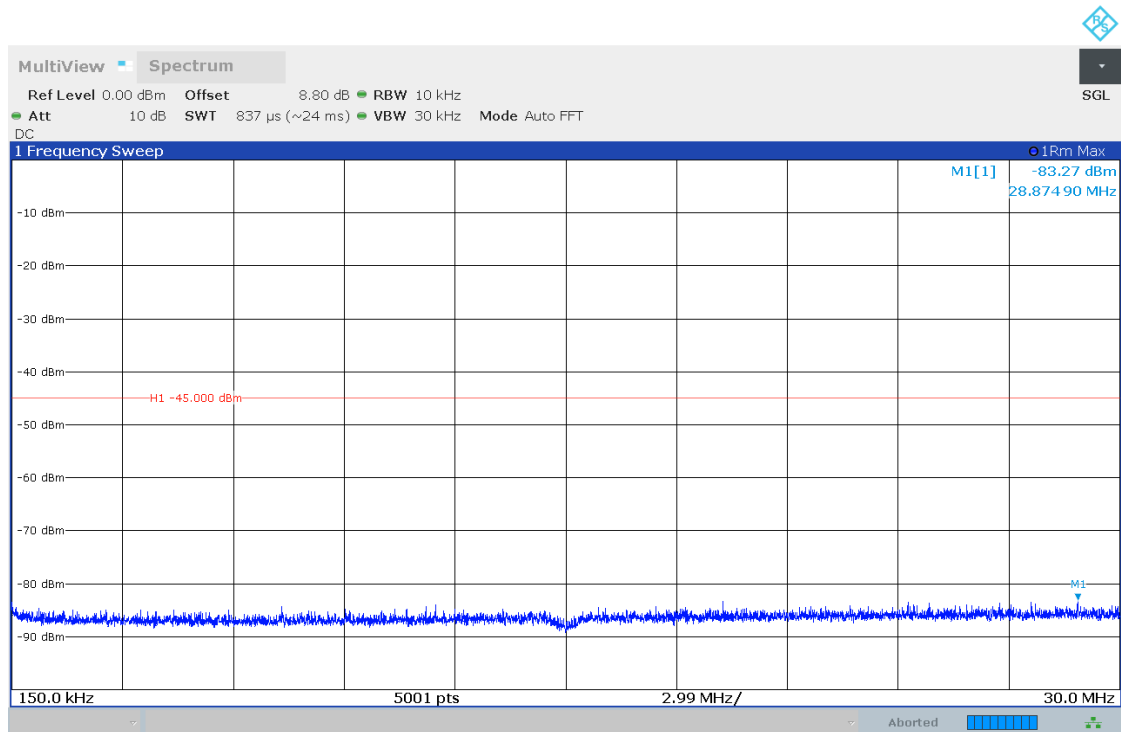


23:02:15 24.04.2022

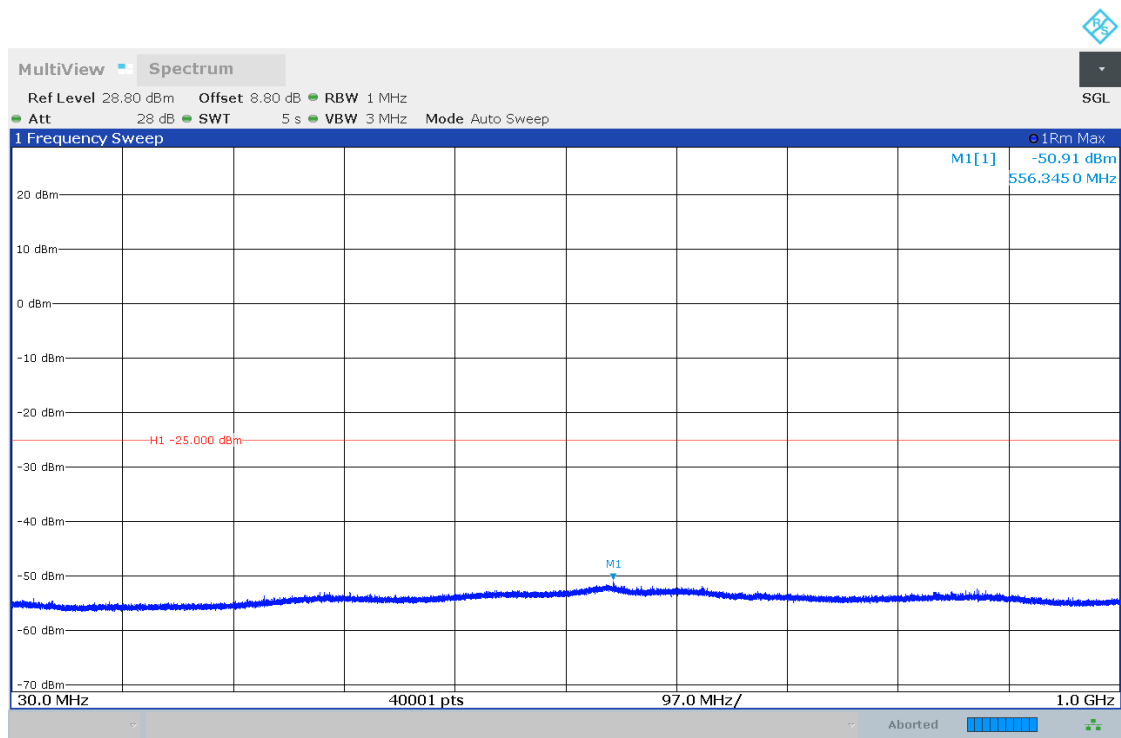
TM2_20MHz_LCH_RB100#0



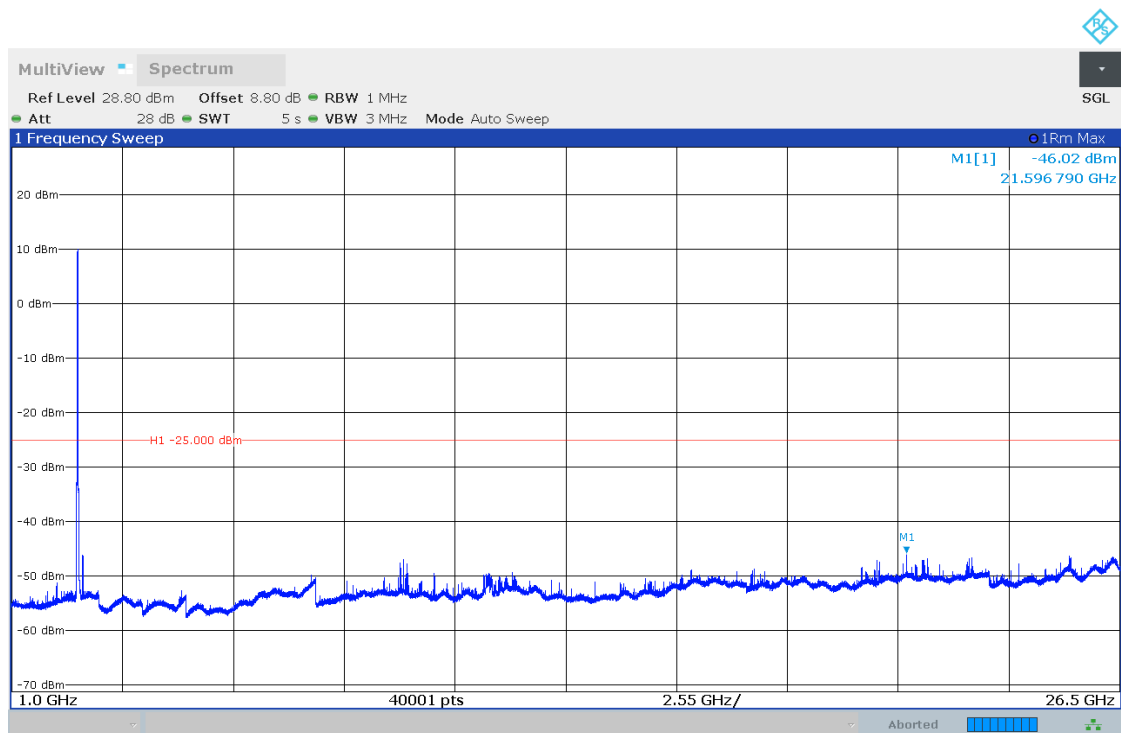
23:03:18 24.04.2022



23:03:47 24.04.2022

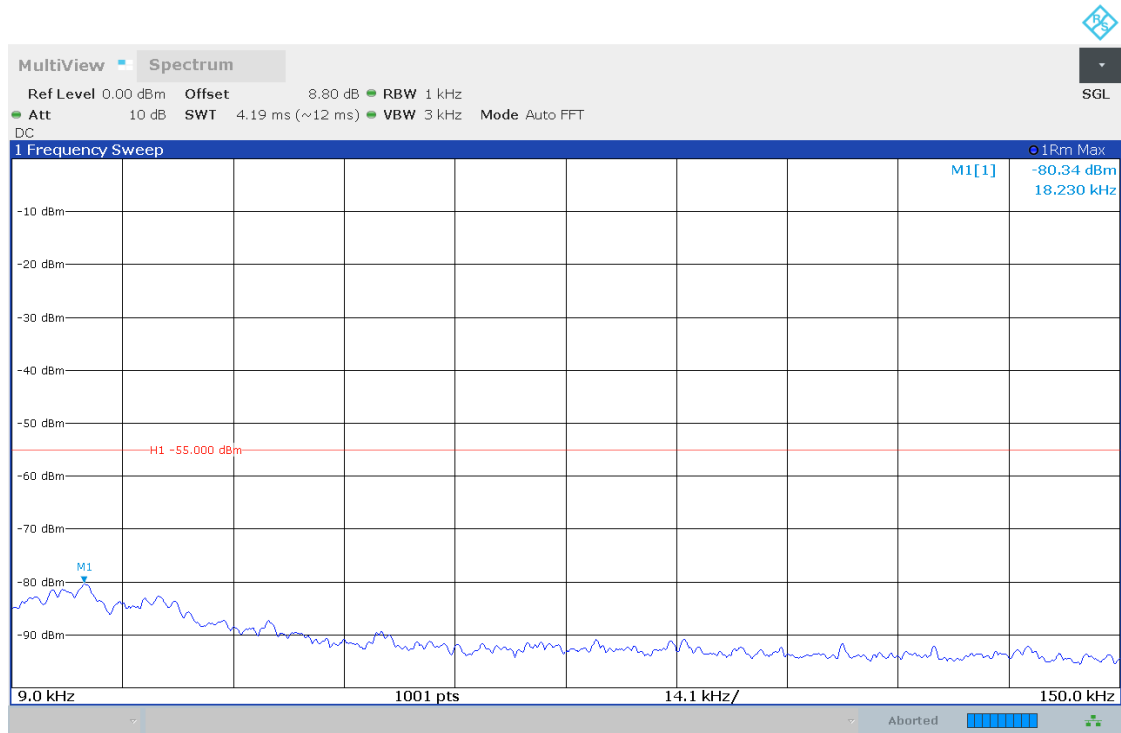


23:04:17 24.04.2022

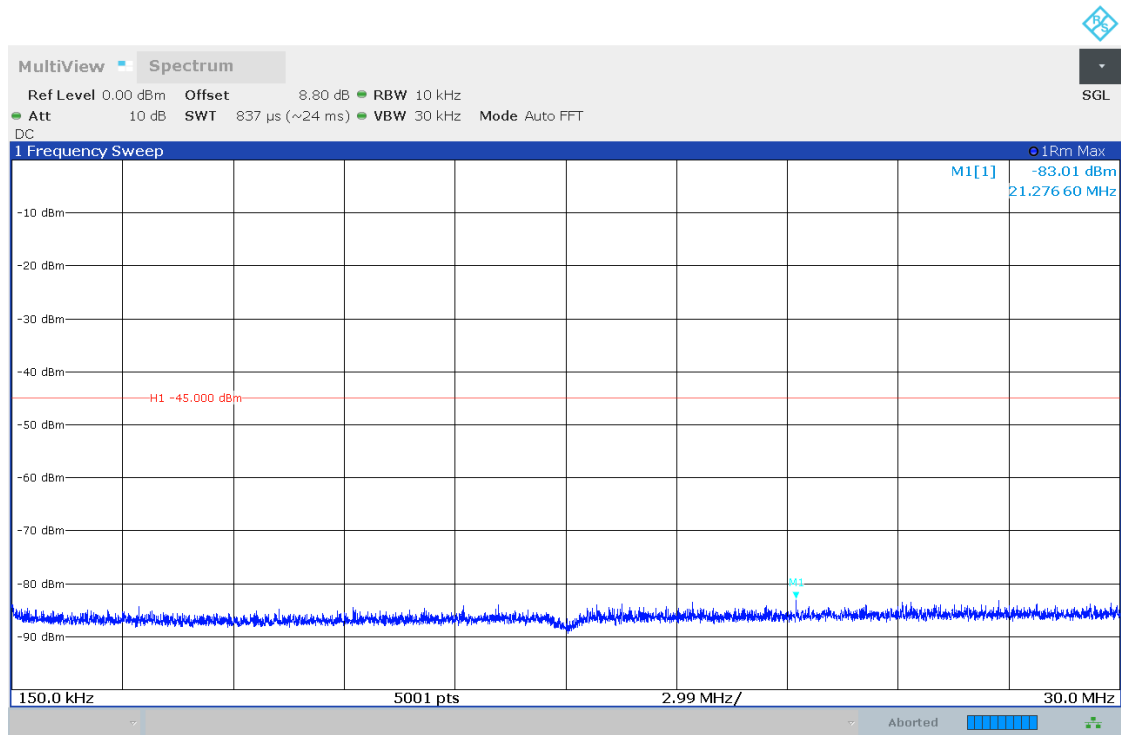


23:04:51 24.04.2022

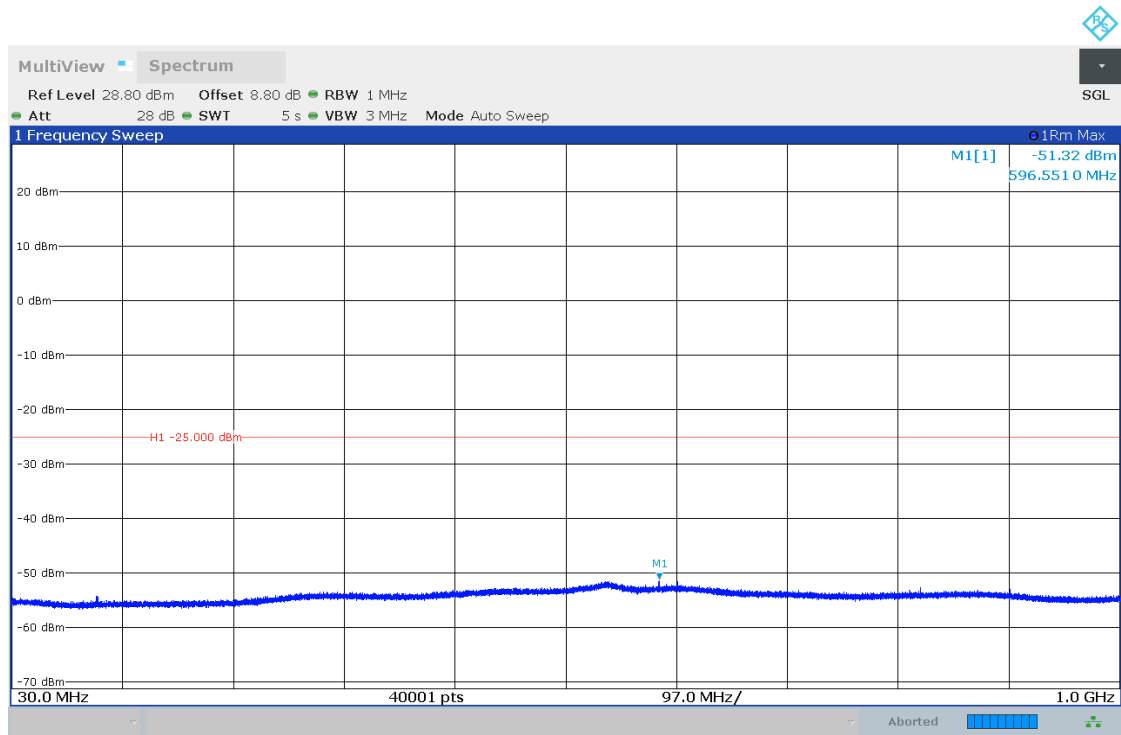
TM2_20MHz_LCH_RB1#0



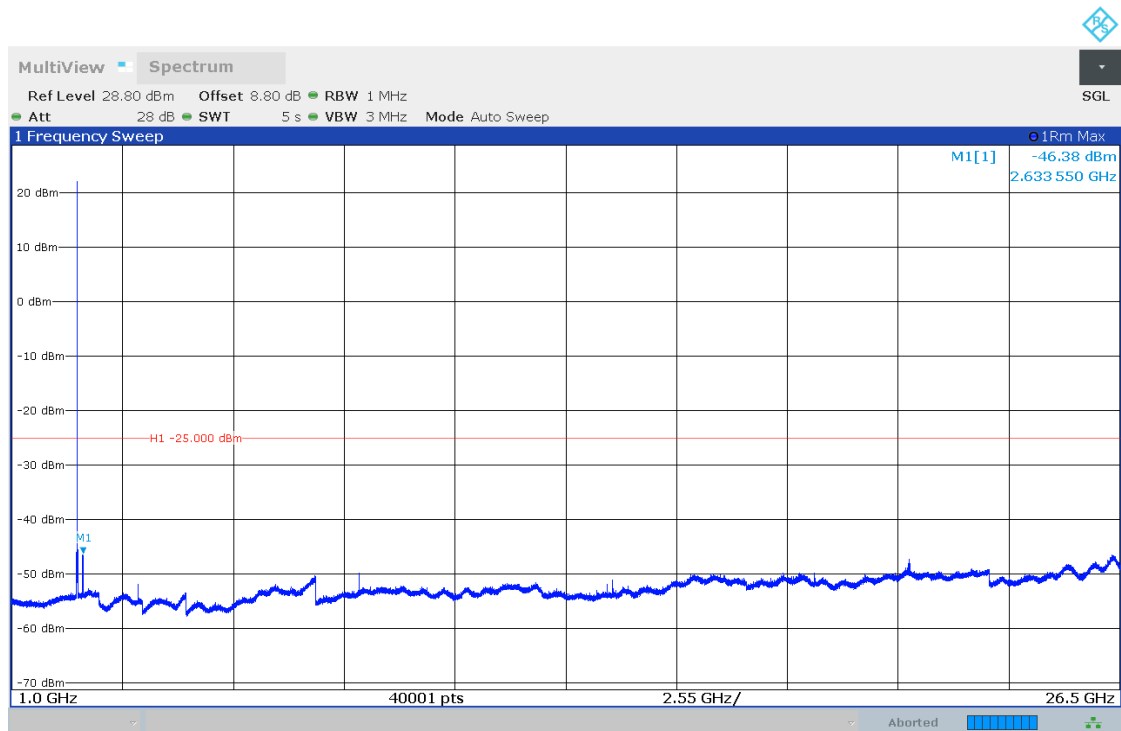
23:05:22 24.04.2022



23:05:51 24.04.2022

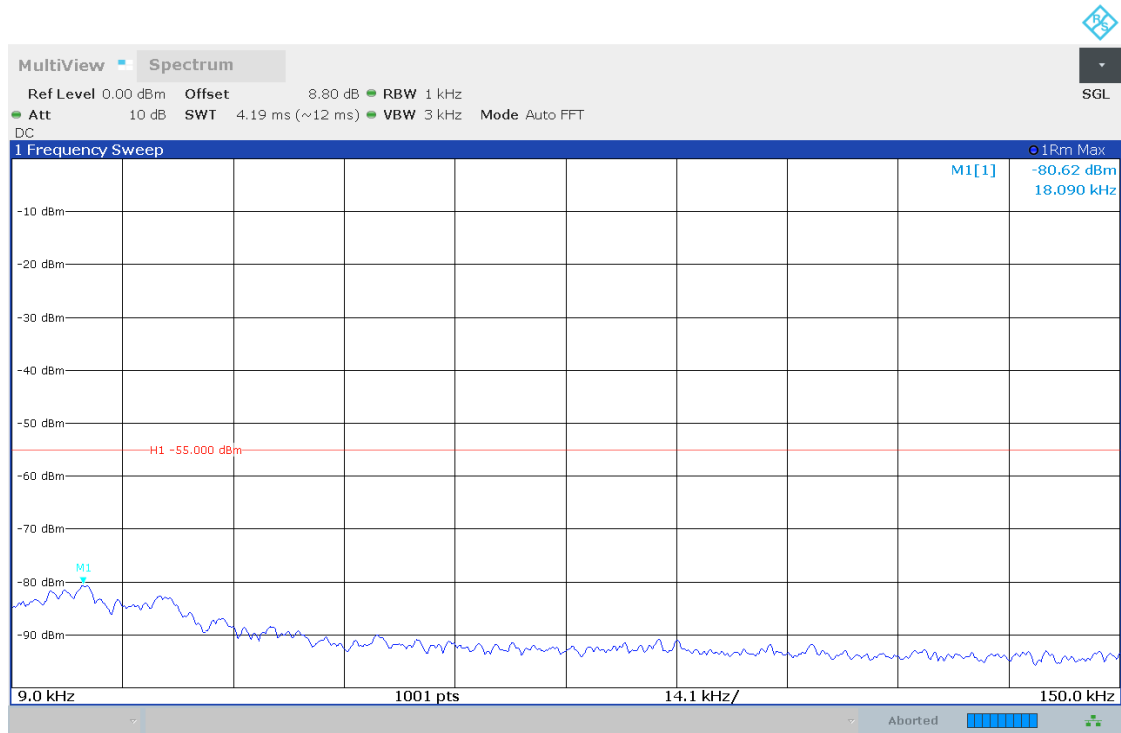


23:06:21 24.04.2022

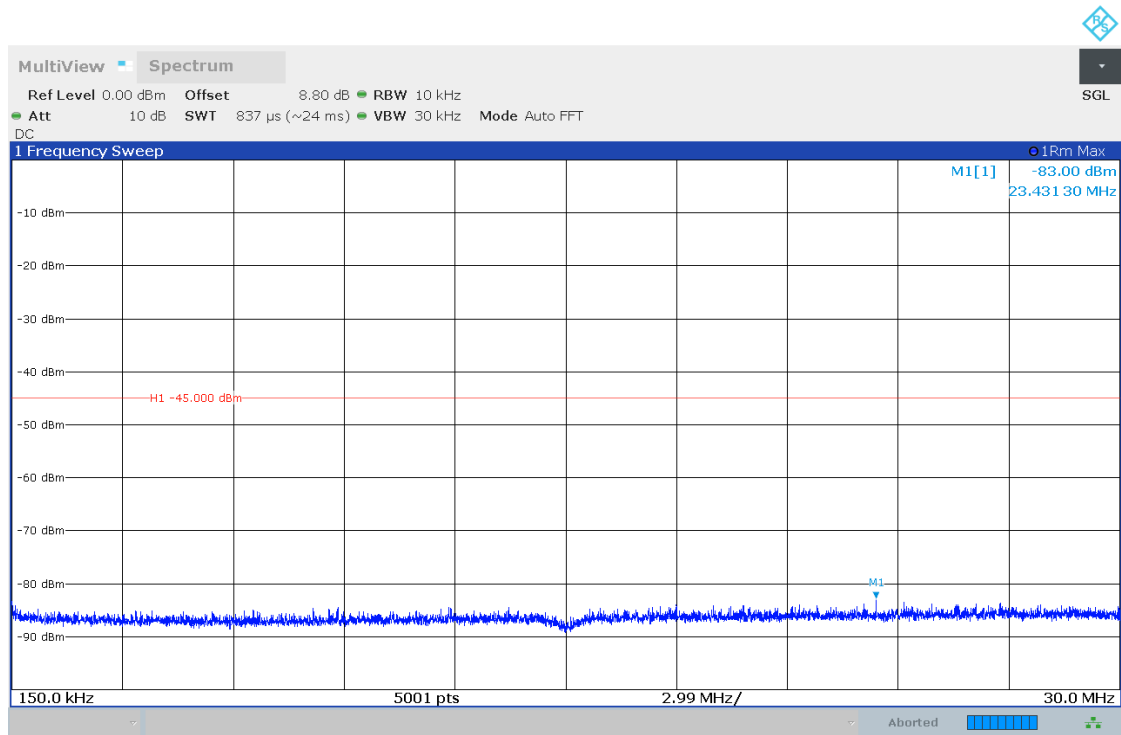


23:06:55 24.04.2022

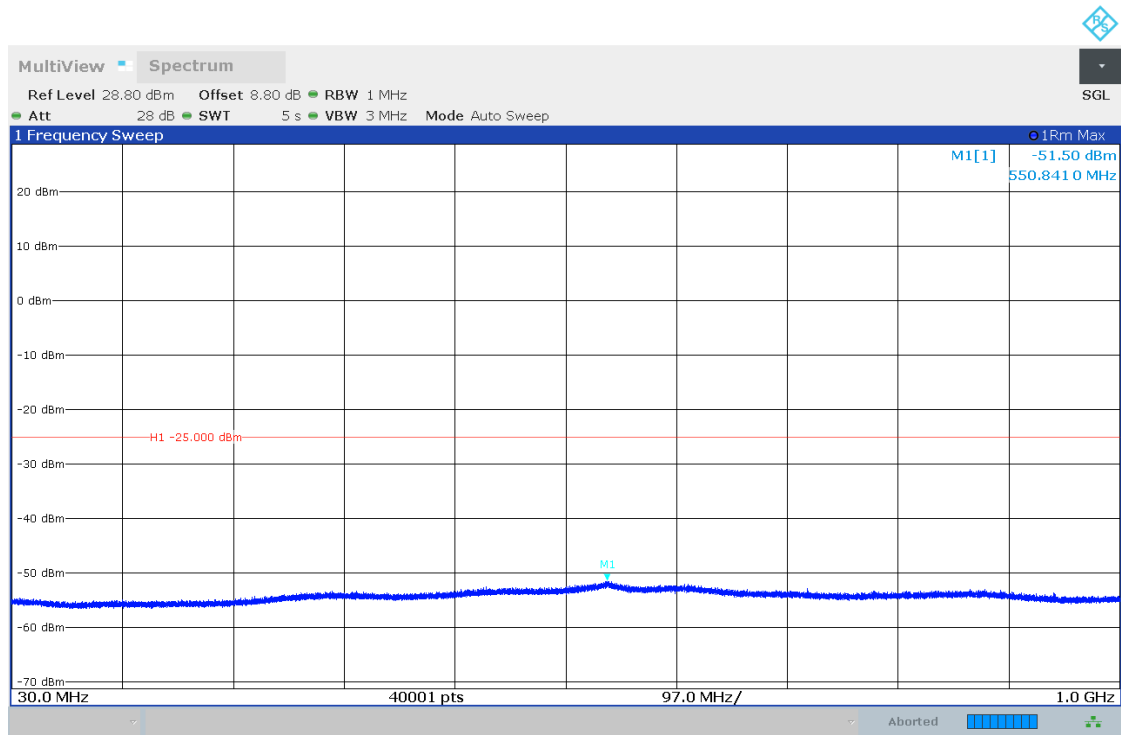
TM2_20MHz_LCH_RB1#99



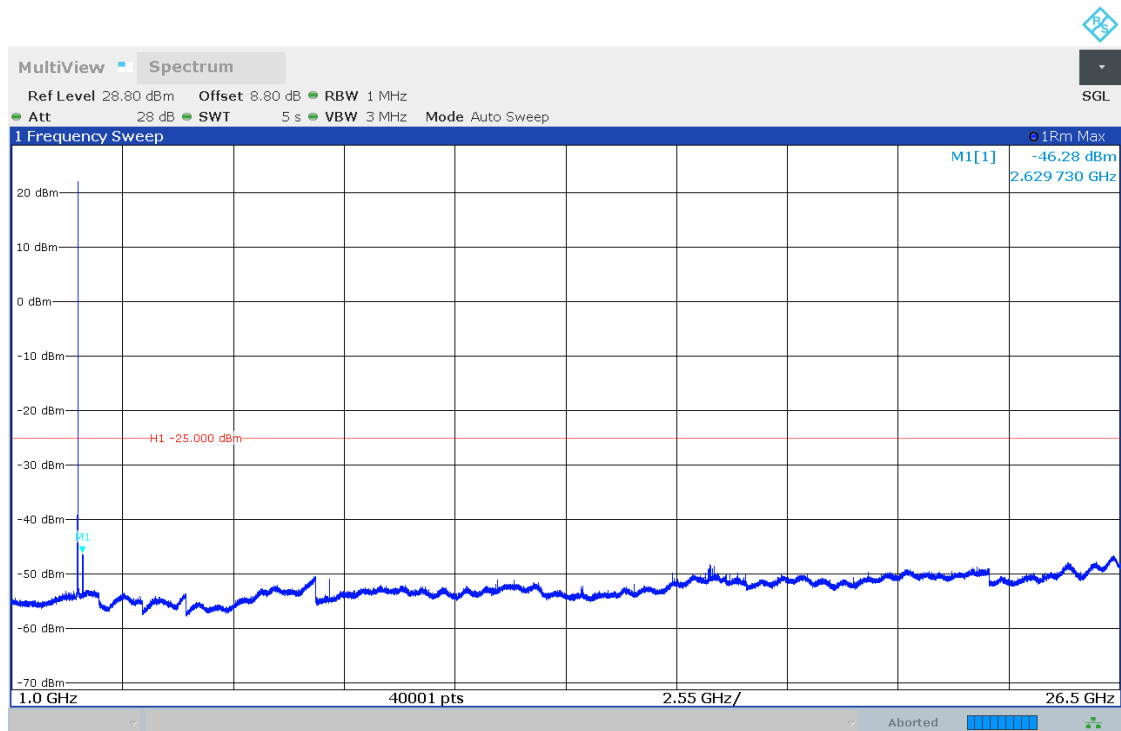
23:07:26 24.04.2022



23:07:55 24.04.2022

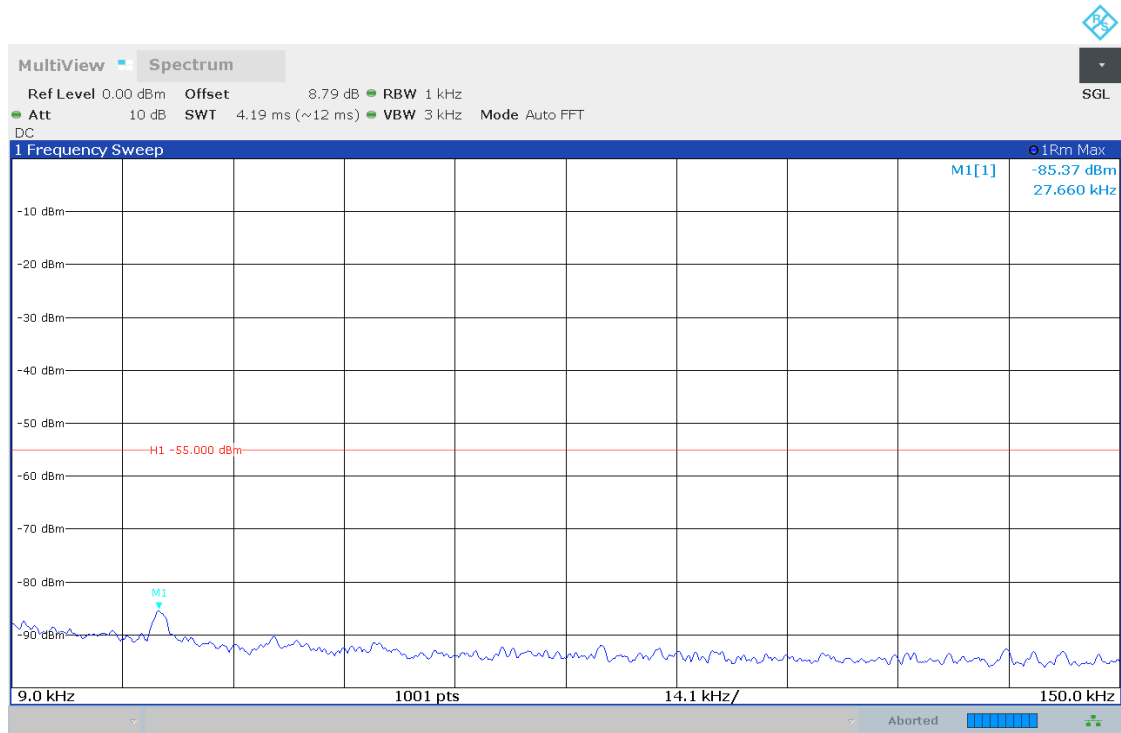


23:08:25 24.04.2022

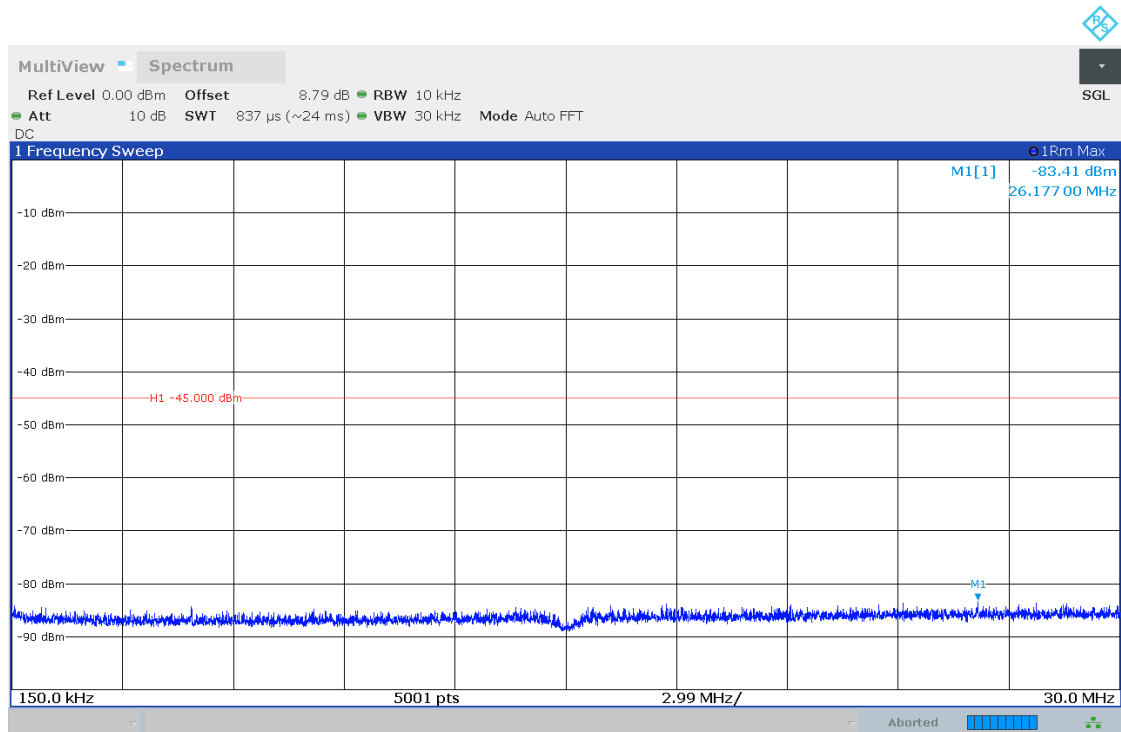


23:08:59 24.04.2022

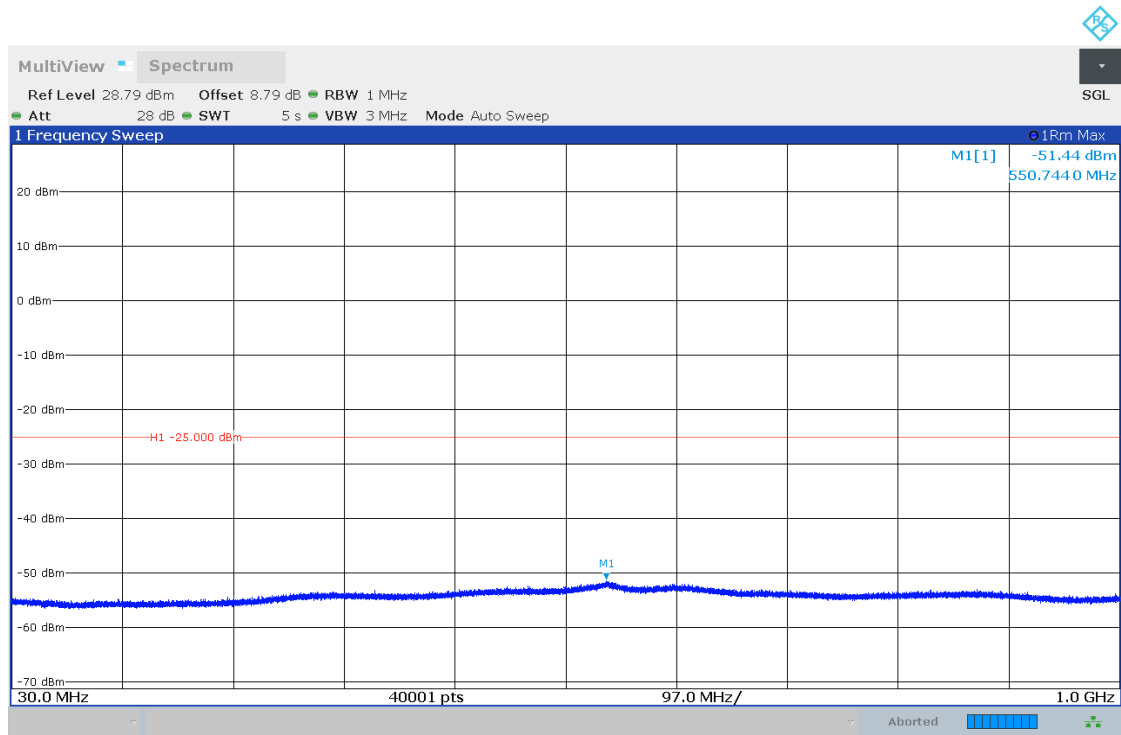
TM2_20MHz_MCH_RB100#0



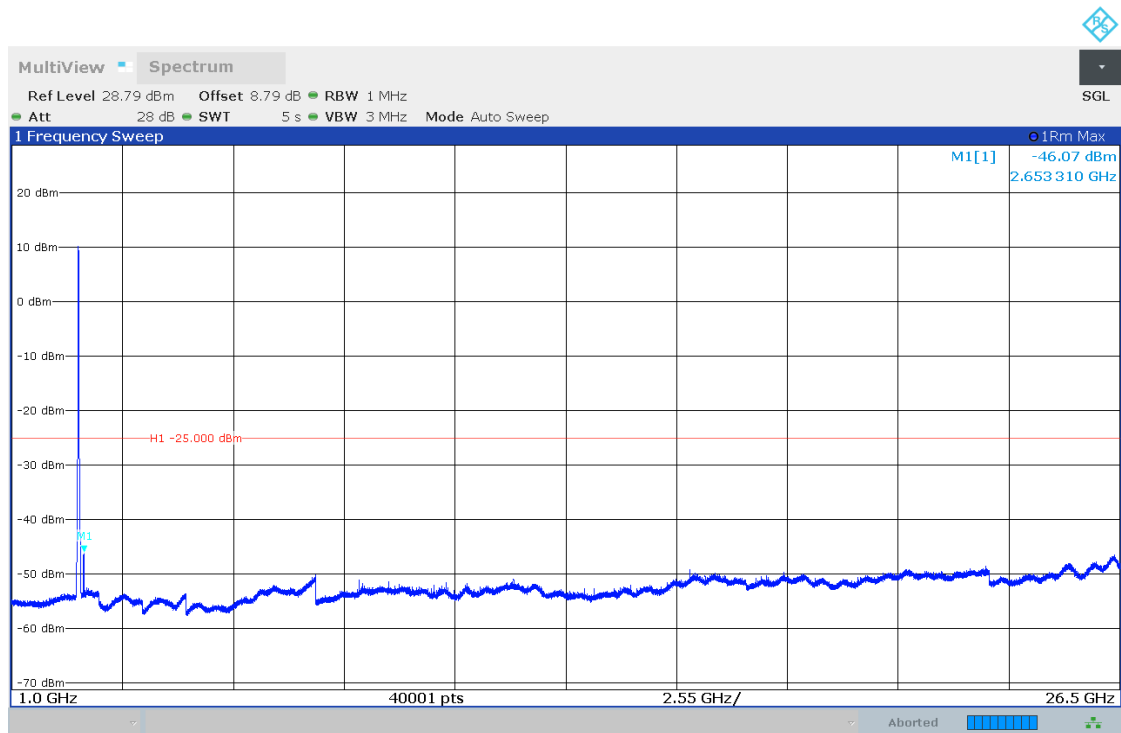
23:09:32 24.04.2022



23:10:01 24.04.2022

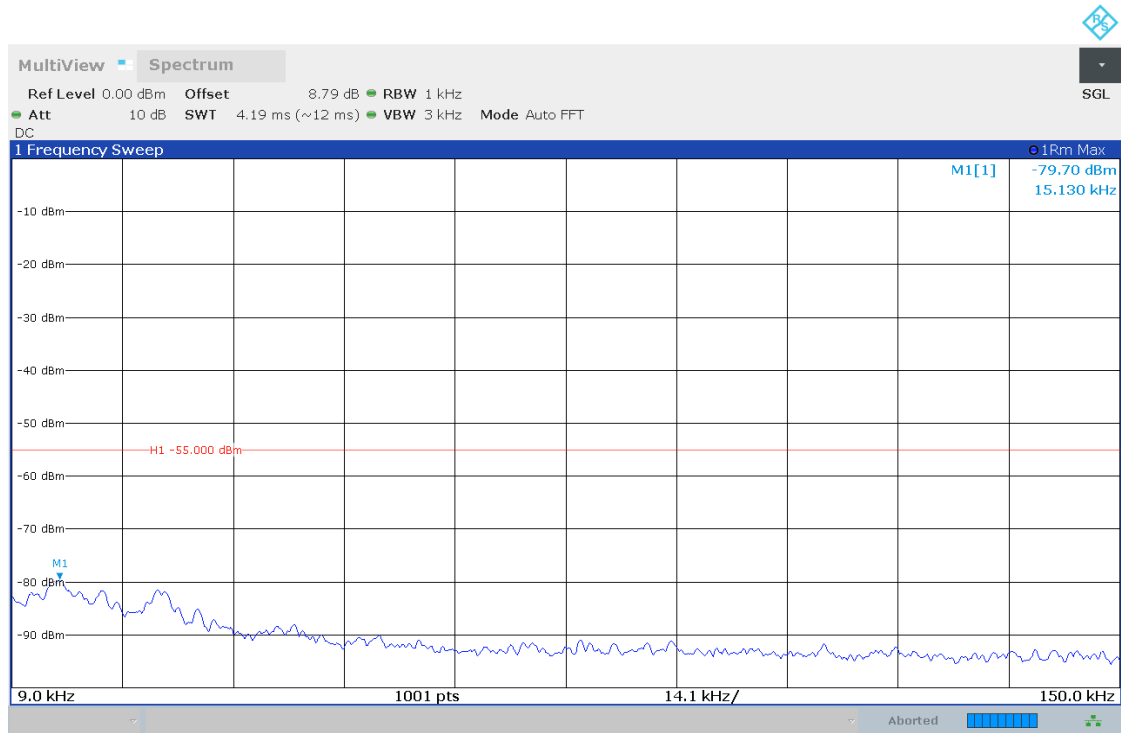


23:10:31 24.04.2022

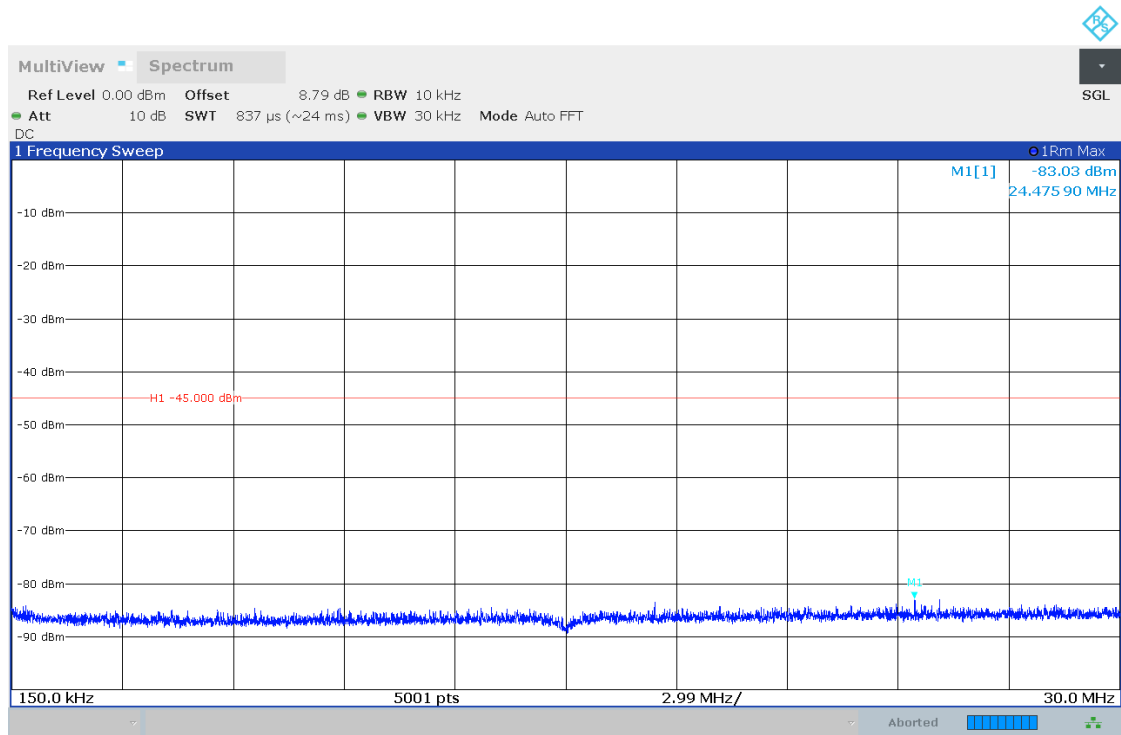


23:11:05 24.04.2022

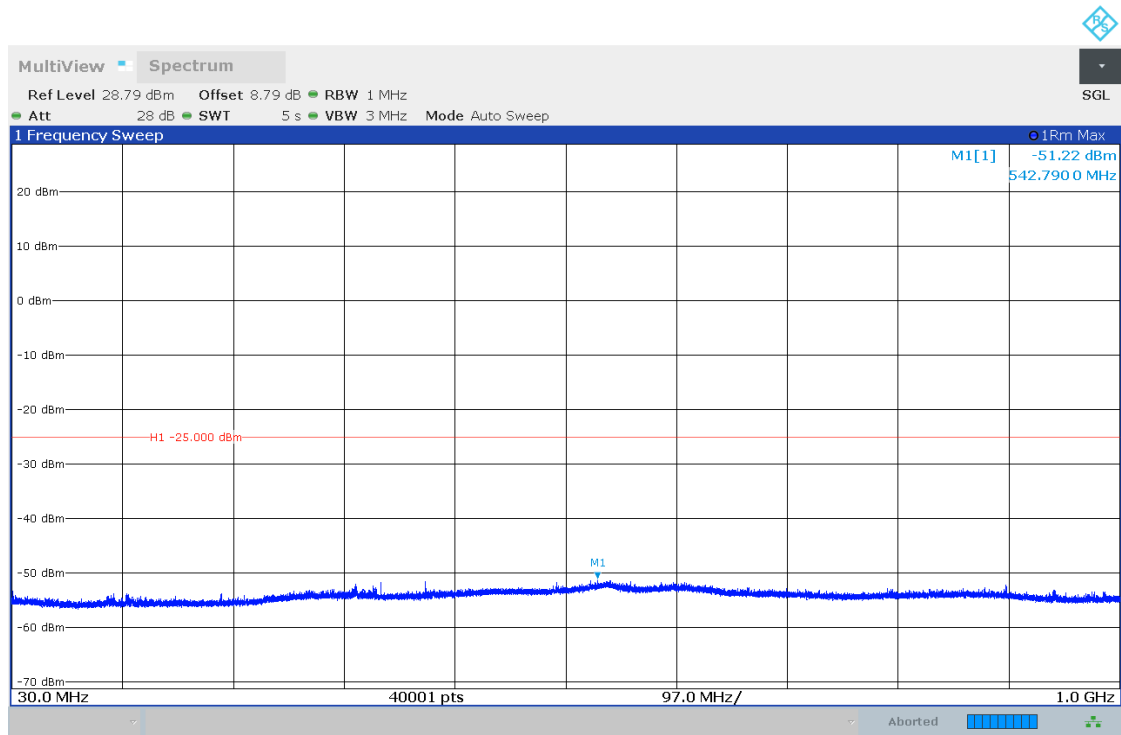
TM2_20MHz_MCH_RB1#0



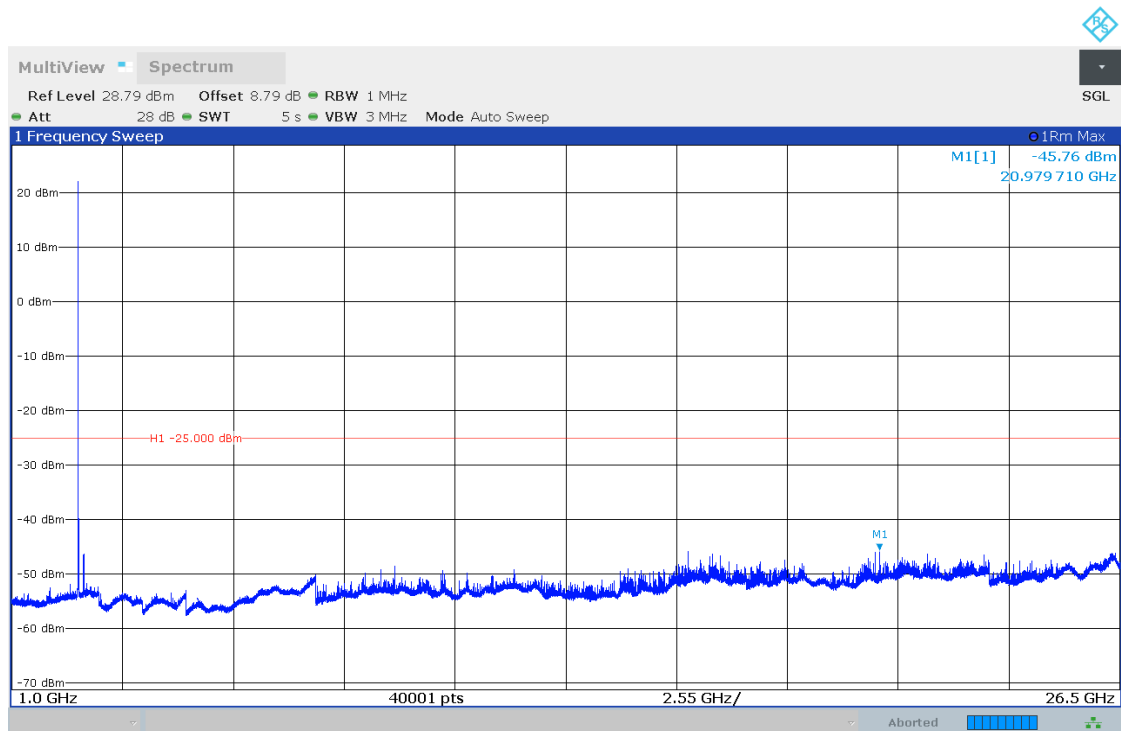
23:11:36 24.04.2022



23:12:05 24.04.2022

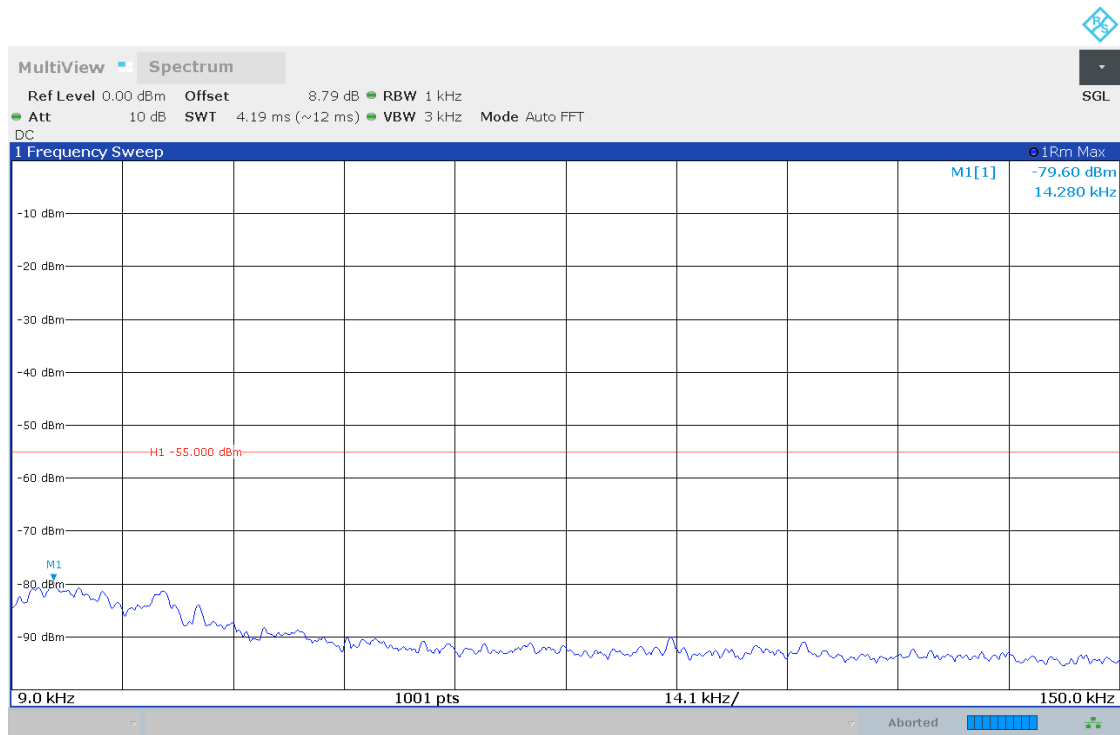


23:12:35 24.04.2022

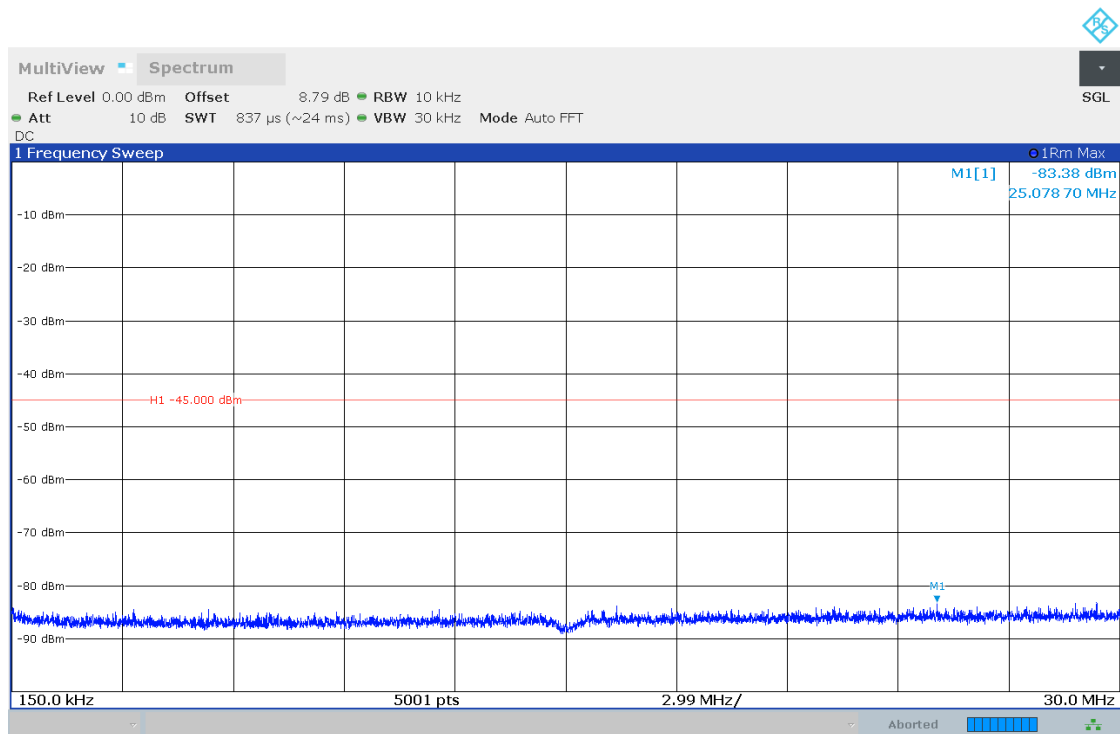


23:13:10 24.04.2022

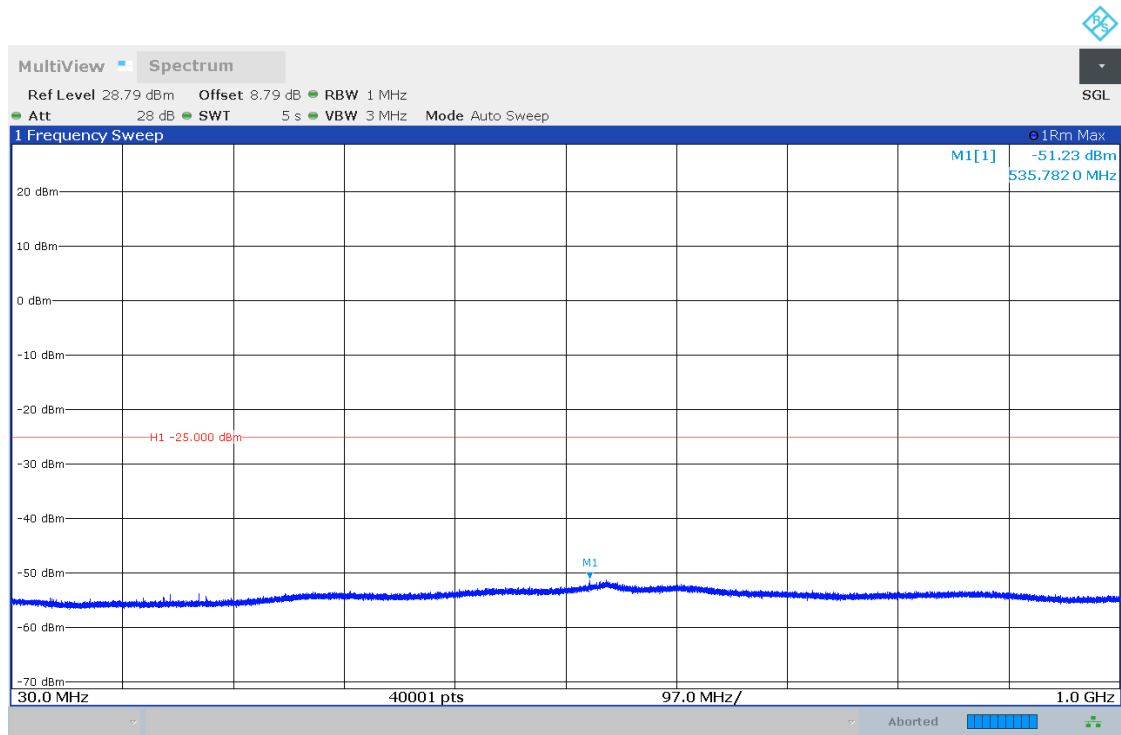
TM2_20MHz_MCH_RB1#99



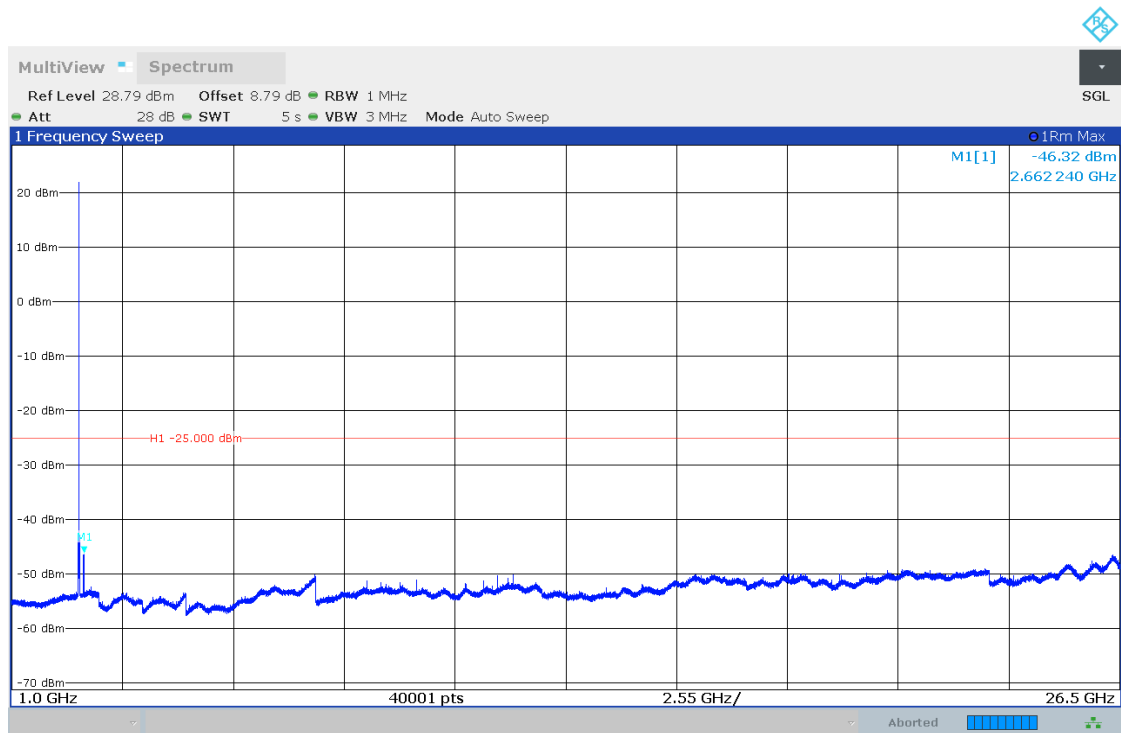
23:13:40 24.04.2022



23:14:10 24.04.2022

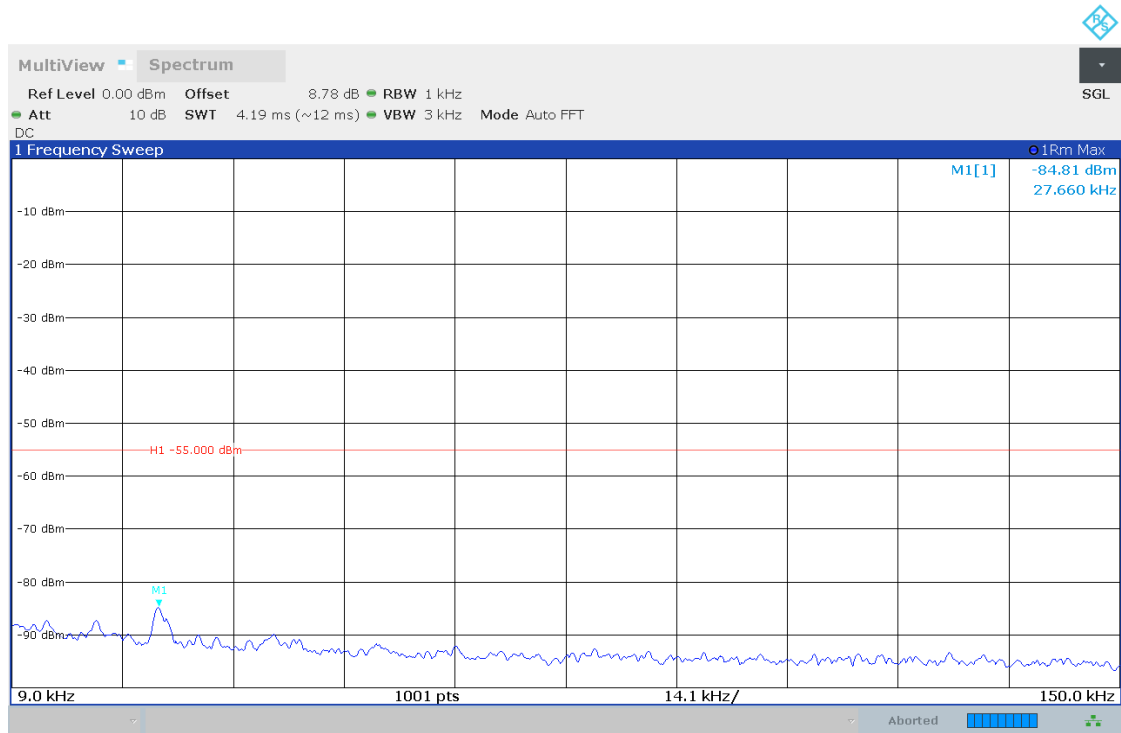


23:14:39 24.04.2022

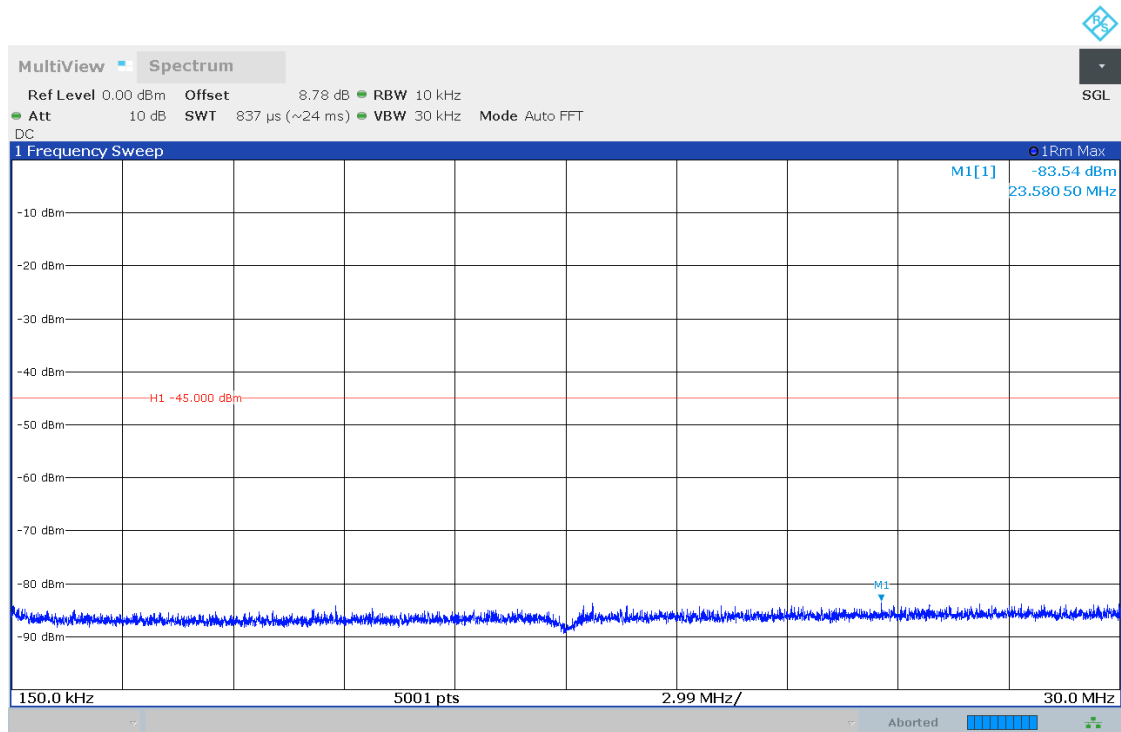


23:15:14 24.04.2022

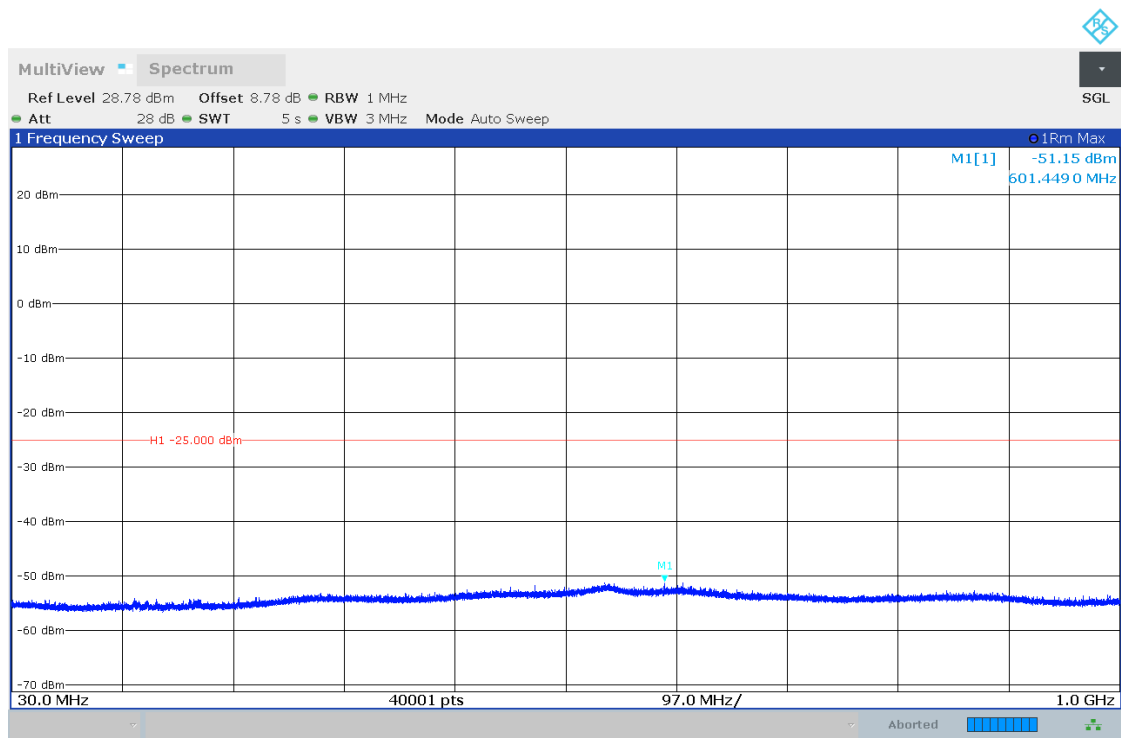
TM2_20MHz_HCH_RB100#0



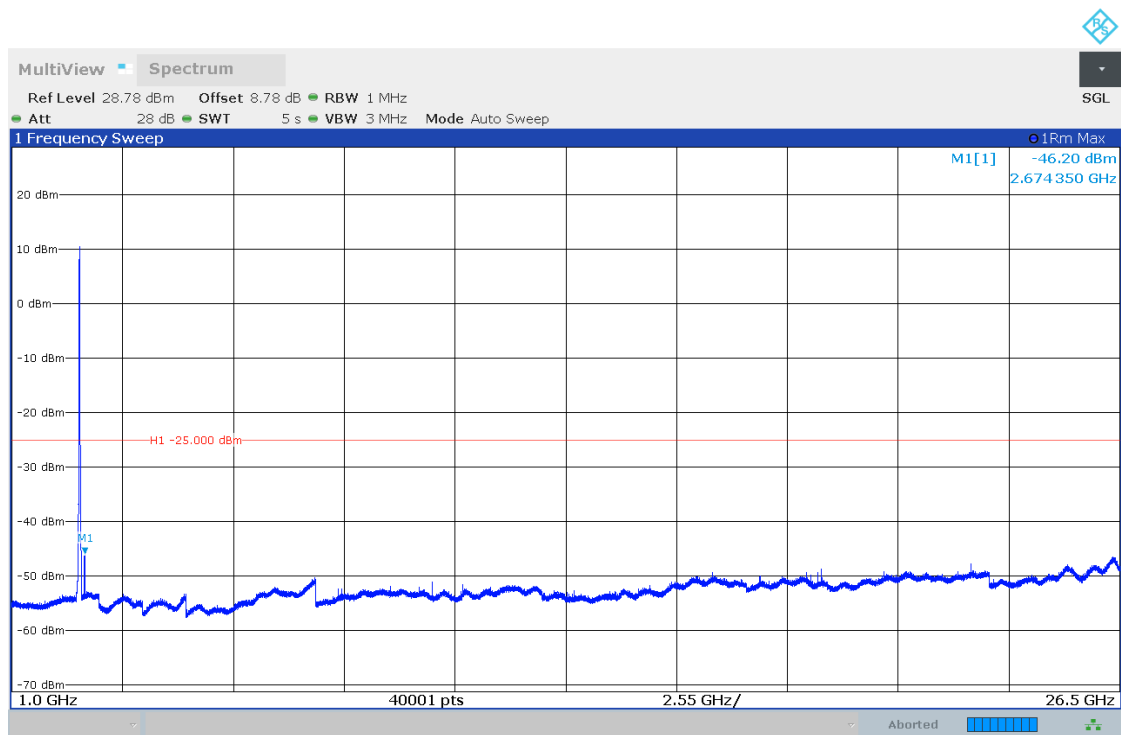
23:15:46 24.04.2022



23:16:16 24.04.2022

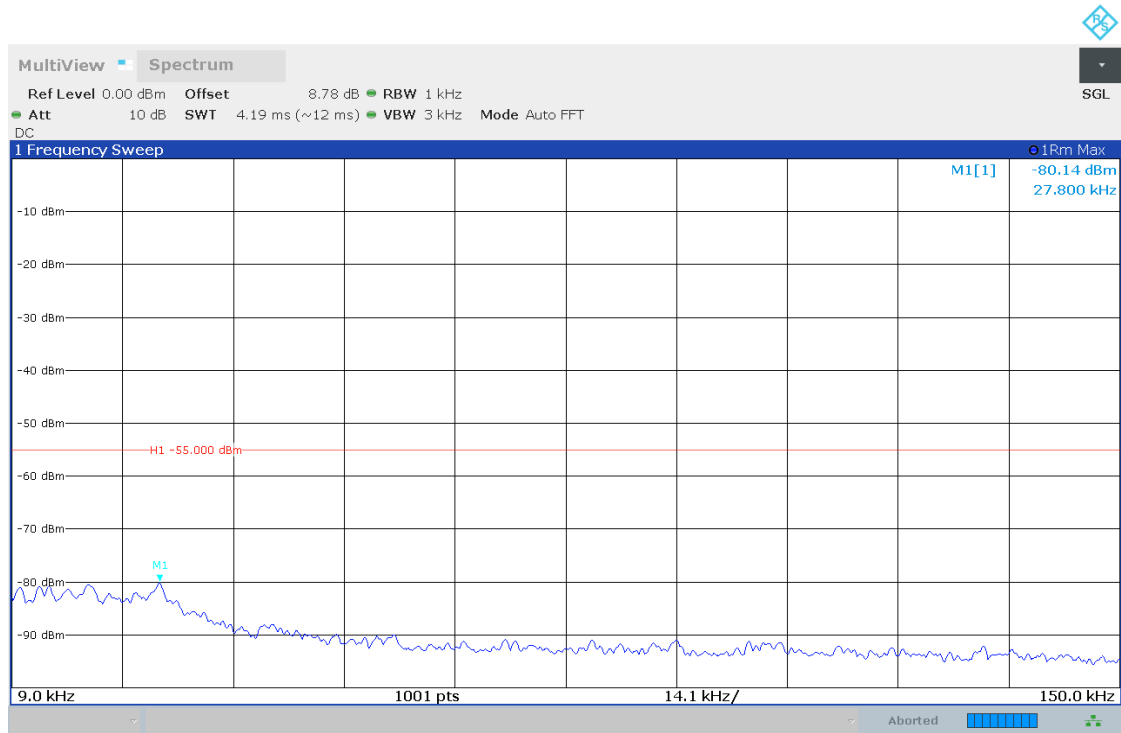


23:16:45 24.04.2022

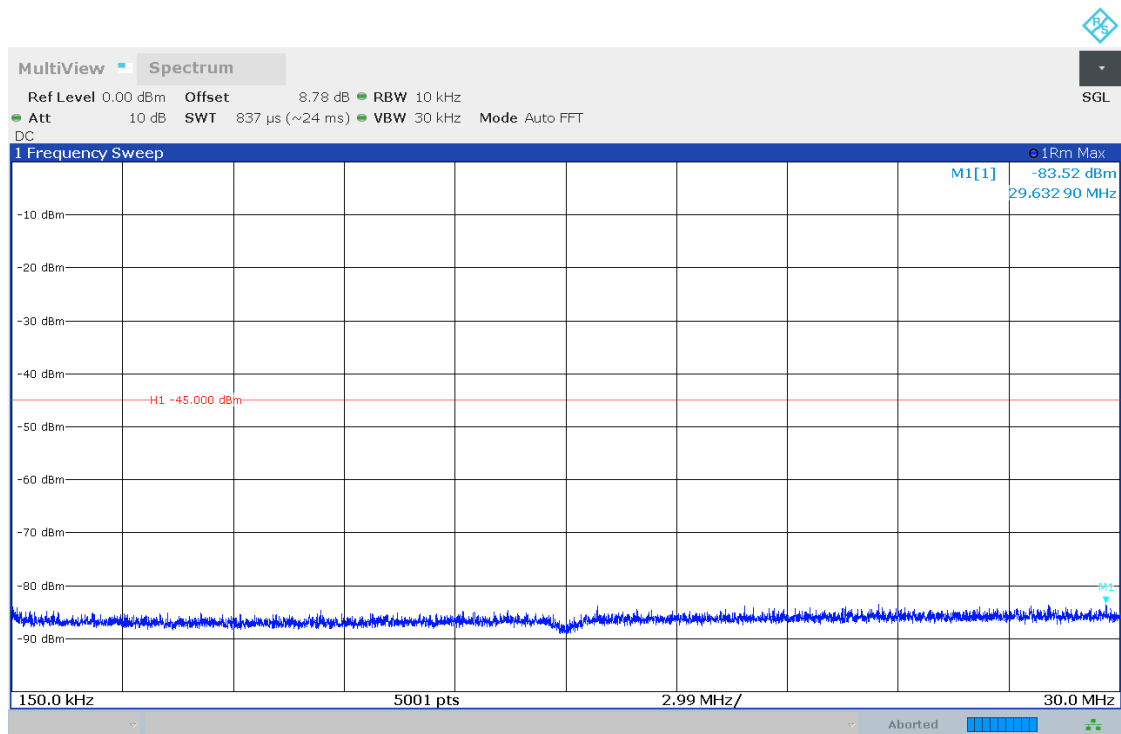


23:17:20 24.04.2022

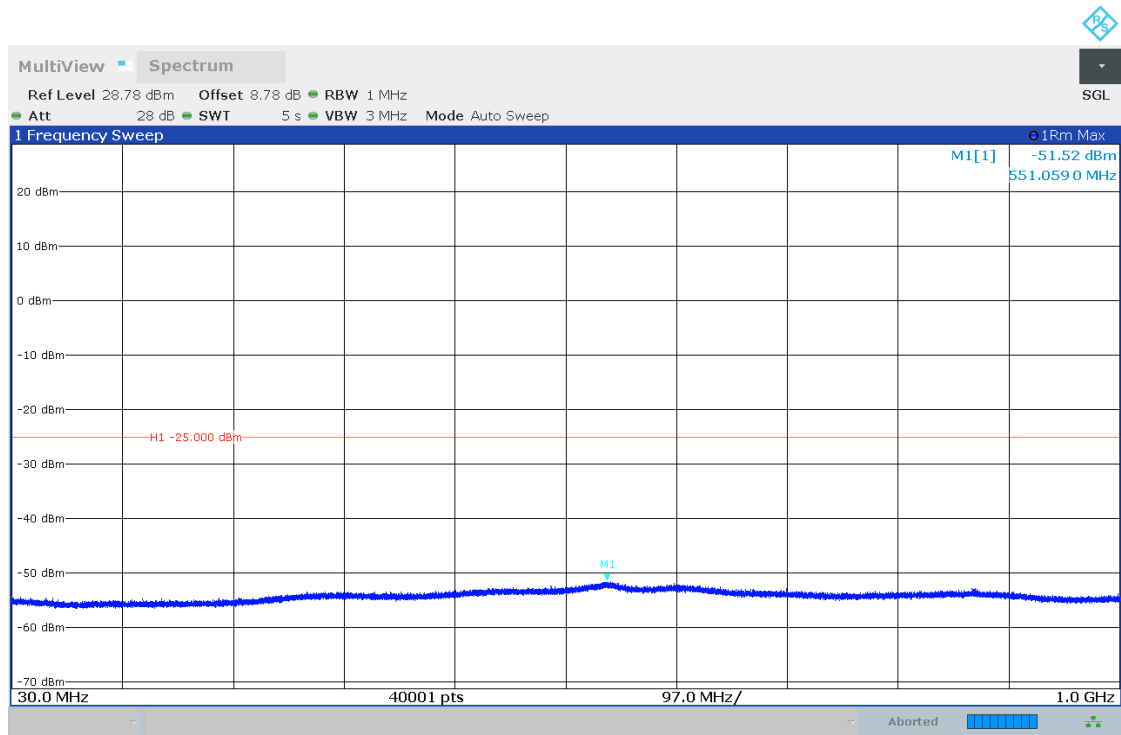
TM2_20MHz_HCH_RB1#0



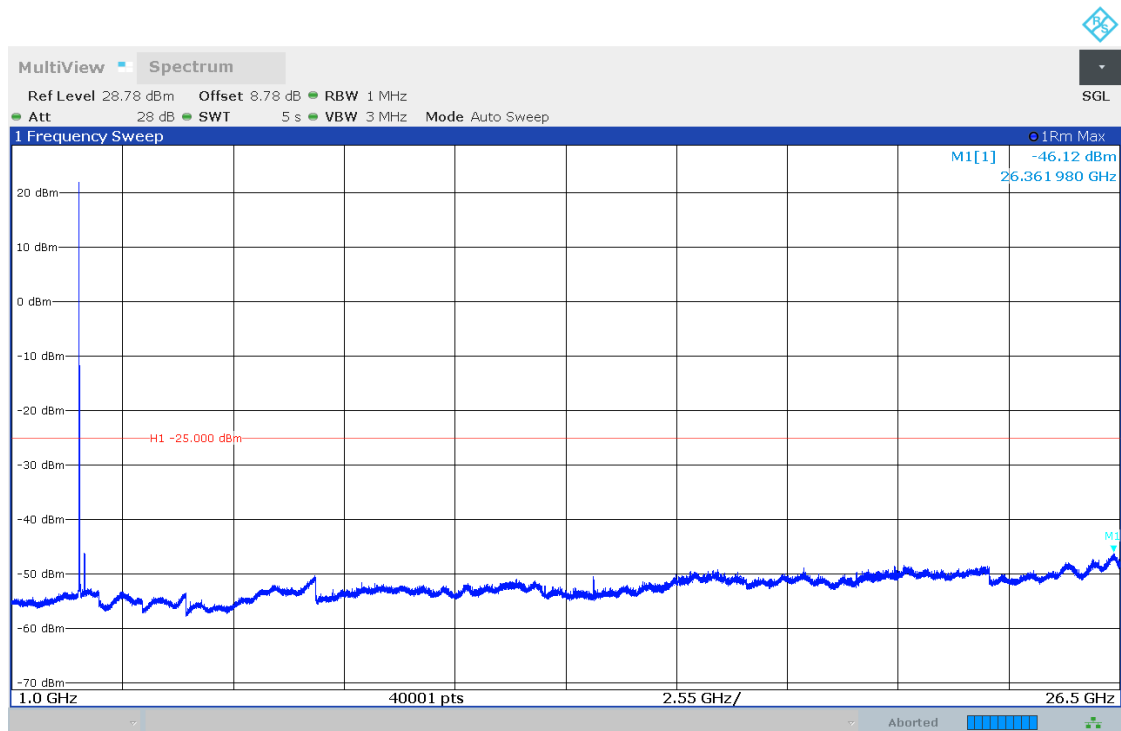
23:17:50 24.04.2022



23:18:20 24.04.2022

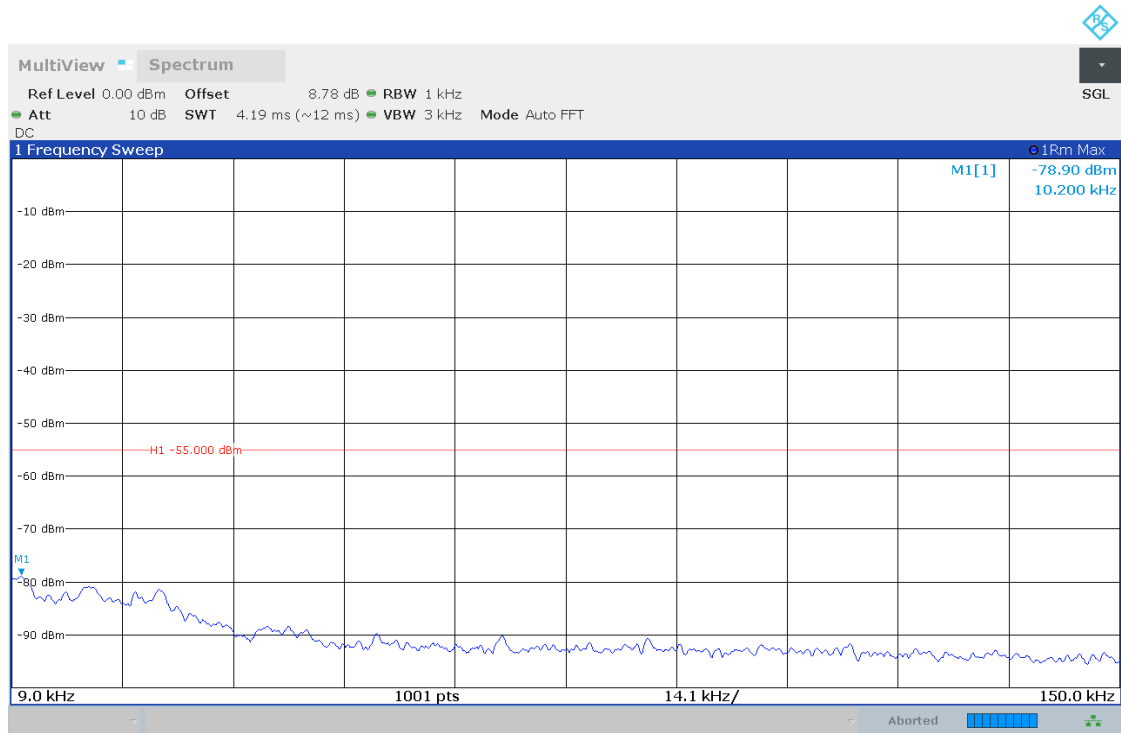


23:18:49 24.04.2022

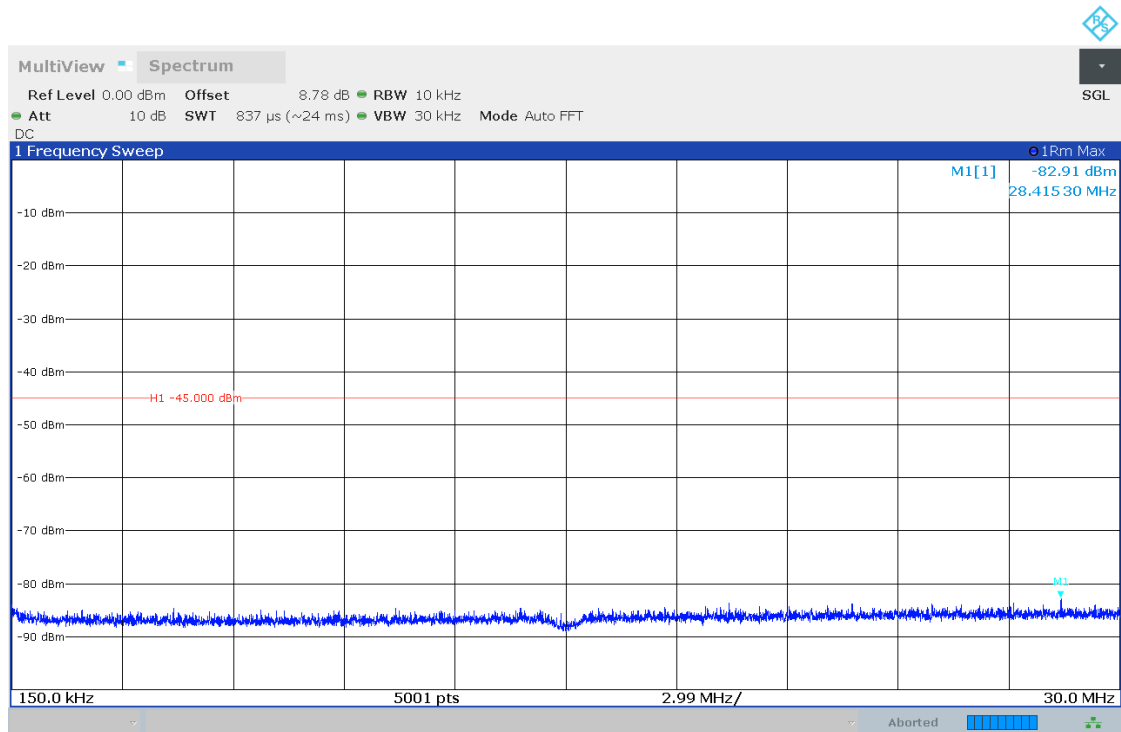


23:19:24 24.04.2022

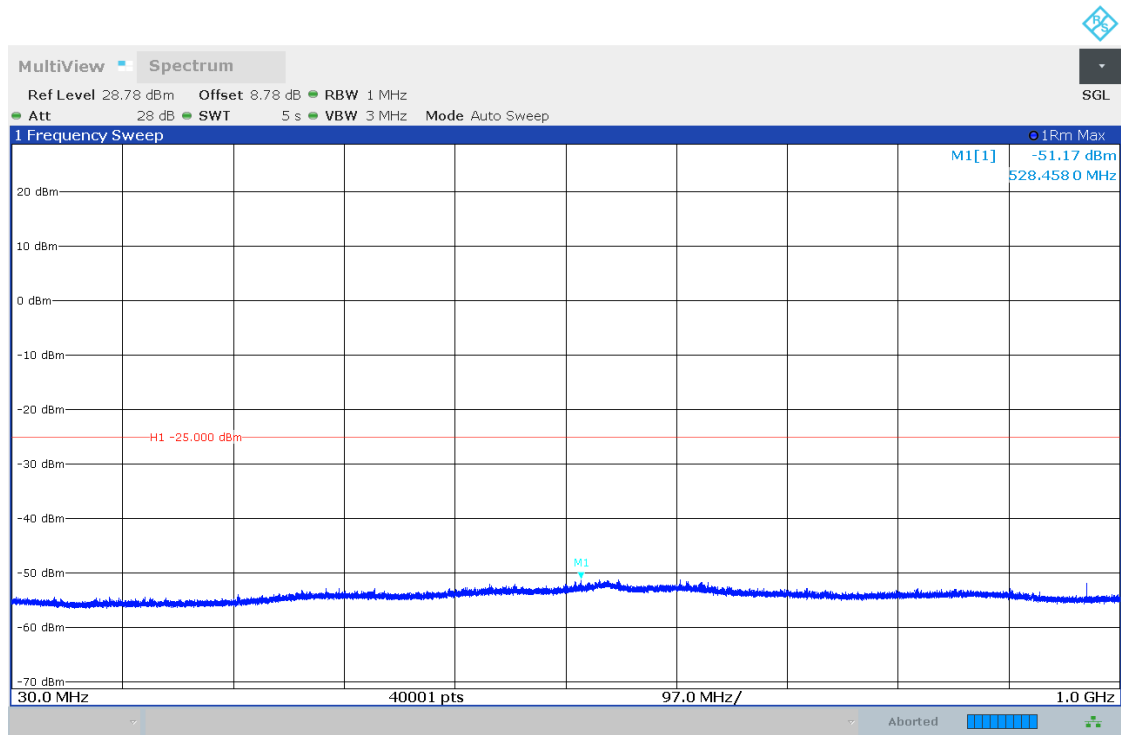
TM2_20MHz_HCH_RB1#99



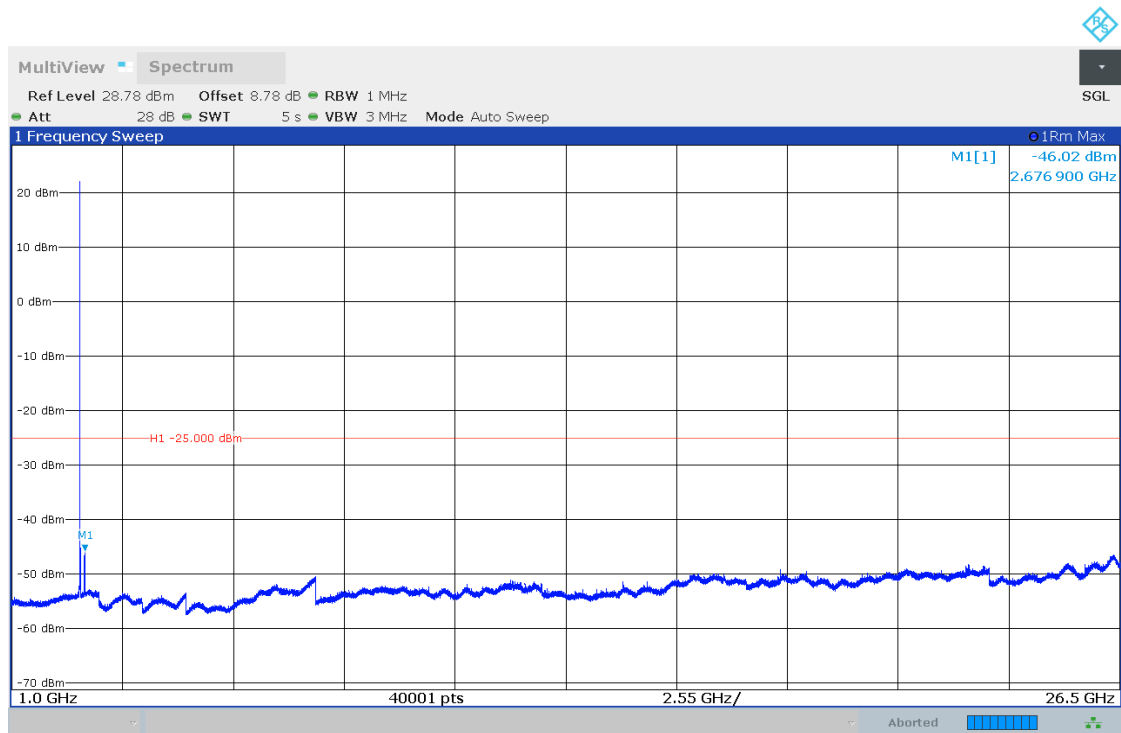
23:19:55 24.04.2022



23:20:24 24.04.2022



23:20:53 24.04.2022



23:21:28 24.04.2022

7 Appendix_G: Frequency Stability

7.1 Test Results

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	13.53	0.01	PASS	
			QPSK	TN	VN	-12.91	-0.01	PASS	
			QPSK	TN	VL	8.19	0.0	PASS	
		MCH	QPSK	TN	VH	3.13	0.0	PASS	
			QPSK	TN	VN	4.95	0.0	PASS	
			QPSK	TN	VL	-2.07	-0.0	PASS	
		HCH	QPSK	TN	VH	3.91	0.0	PASS	
			QPSK	TN	VN	2.50	0.0	PASS	
			QPSK	TN	VL	-13.22	-0.01	PASS	
		20	LCH	QPSK	TN	VH	3.27	0.0	PASS
				QPSK	TN	VN	1.30	0.0	PASS
				QPSK	TN	VL	1.26	0.0	PASS
	MCH		QPSK	TN	VH	-1.28	-0.0	PASS	
			QPSK	TN	VN	1.90	0.0	PASS	
			QPSK	TN	VL	2.77	0.0	PASS	
	HCH		QPSK	TN	VH	-1.47	-0.0	PASS	
			QPSK	TN	VN	0.90	0.0	PASS	
			QPSK	TN	VL	-0.99	-0.0	PASS	

Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	5	LCH	16QAM	TN	VH	-1.38	-0.0	PASS
			16QAM	TN	VN	3.87	0.0	PASS
			16QAM	TN	VL	-4.82	-0.0	PASS
		MCH	16QAM	TN	VH	-4.68	-0.0	PASS
			16QAM	TN	VN	-6.52	-0.0	PASS
			16QAM	TN	VL	7.11	0.0	PASS
		HCH	16QAM	TN	VH	-7.85	-0.0	PASS
			16QAM	TN	VN	-4.56	-0.0	PASS
			16QAM	TN	VL	-9.07	-0.0	PASS
	20	LCH	16QAM	TN	VH	3.64	0.0	PASS
			16QAM	TN	VN	-3.96	-0.0	PASS
			16QAM	TN	VL	0.02	0.0	PASS
		MCH	16QAM	TN	VH	-1.89	-0.0	PASS
			16QAM	TN	VN	-0.21	-0.0	PASS
			16QAM	TN	VL	-0.54	-0.0	PASS
		HCH	16QAM	TN	VH	2.46	0.0	PASS
			16QAM	TN	VN	1.30	0.0	PASS
			16QAM	TN	VL	4.49	0.0	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	10.45	0.0	PASS
			QPSK	VN	-20	0.13	0.0	PASS
			QPSK	VN	-10	-7.07	-0.0	PASS
			QPSK	VN	0	-2.04	-0.0	PASS
			QPSK	VN	10	9.12	0.0	PASS
			QPSK	VN	20	-6.16	-0.0	PASS
			QPSK	VN	30	-3.05	-0.0	PASS
			QPSK	VN	40	3.76	0.0	PASS
			QPSK	VN	50	5.51	0.0	PASS
		MCH	QPSK	VN	-30	9.82	0.0	PASS
			QPSK	VN	-20	-7.03	-0.0	PASS
			QPSK	VN	-10	1.04	0.0	PASS
			QPSK	VN	0	-3.95	-0.0	PASS
			QPSK	VN	10	-4.85	-0.0	PASS
			QPSK	VN	20	4.41	0.0	PASS
			QPSK	VN	30	-3.56	-0.0	PASS
			QPSK	VN	40	0.18	0.0	PASS
			QPSK	VN	50	3.48	0.0	PASS
		HCH	QPSK	VN	-30	1.70	0.0	PASS
			QPSK	VN	-20	-2.98	-0.0	PASS
			QPSK	VN	-10	4.52	0.0	PASS
			QPSK	VN	0	1.96	0.0	PASS
			QPSK	VN	10	-4.01	-0.0	PASS
			QPSK	VN	20	-17.88	-0.01	PASS
			QPSK	VN	30	2.72	0.0	PASS
			QPSK	VN	40	2.78	0.0	PASS
			QPSK	VN	50	-10.16	-0.0	PASS

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	5.08	0.0	PASS
			QPSK	VN	-20	-2.16	-0.0	PASS
			QPSK	VN	-10	-1.51	-0.0	PASS
			QPSK	VN	0	-0.53	-0.0	PASS
			QPSK	VN	10	6.36	0.0	PASS
			QPSK	VN	20	-2.79	-0.0	PASS
			QPSK	VN	30	-3.40	-0.0	PASS
			QPSK	VN	40	-5.34	-0.0	PASS
			QPSK	VN	50	-6.55	-0.0	PASS
		MCH	QPSK	VN	-30	3.81	0.0	PASS
			QPSK	VN	-20	4.36	0.0	PASS
			QPSK	VN	-10	-3.37	-0.0	PASS
			QPSK	VN	0	-0.07	-0.0	PASS
			QPSK	VN	10	1.66	0.0	PASS
			QPSK	VN	20	2.95	0.0	PASS
			QPSK	VN	30	3.62	0.0	PASS
			QPSK	VN	40	1.55	0.0	PASS
			QPSK	VN	50	-1.25	-0.0	PASS
		HCH	QPSK	VN	-30	5.39	0.0	PASS
			QPSK	VN	-20	7.81	0.0	PASS
			QPSK	VN	-10	2.51	0.0	PASS
			QPSK	VN	0	9.25	0.0	PASS
			QPSK	VN	10	-4.39	-0.0	PASS
			QPSK	VN	20	-3.02	-0.0	PASS
			QPSK	VN	30	1.69	0.0	PASS
			QPSK	VN	40	-1.42	-0.0	PASS
			QPSK	VN	50	8.71	0.0	PASS

Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	15	LCH	QPSK	VN	-30	-1.31	-0.0	PASS
			QPSK	VN	-20	2.06	0.0	PASS
			QPSK	VN	-10	-2.98	-0.0	PASS
			QPSK	VN	0	-1.19	-0.0	PASS
			QPSK	VN	10	-1.98	-0.0	PASS
			QPSK	VN	20	0.48	0.0	PASS
			QPSK	VN	30	5.60	0.0	PASS
			QPSK	VN	40	3.82	0.0	PASS
			QPSK	VN	50	-0.76	-0.0	PASS
		MCH	QPSK	VN	-30	2.11	0.0	PASS
			QPSK	VN	-20	1.26	0.0	PASS
			QPSK	VN	-10	0.05	0.0	PASS
			QPSK	VN	0	1.82	0.0	PASS
			QPSK	VN	10	0.35	0.0	PASS
			QPSK	VN	20	-3.95	-0.0	PASS
			QPSK	VN	30	-2.87	-0.0	PASS
			QPSK	VN	40	-0.10	-0.0	PASS
			QPSK	VN	50	0.08	0.0	PASS
		HCH	QPSK	VN	-30	-1.56	-0.0	PASS
			QPSK	VN	-20	0.30	0.0	PASS
			QPSK	VN	-10	-8.78	-0.0	PASS
			QPSK	VN	0	1.87	0.0	PASS
			QPSK	VN	10	1.71	0.0	PASS
			QPSK	VN	20	4.29	0.0	PASS
			QPSK	VN	30	-3.93	-0.0	PASS
			QPSK	VN	40	3.09	0.0	PASS
			QPSK	VN	50	-1.60	-0.0	PASS

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	-0.06	-0.0	PASS
			QPSK	VN	-20	-1.14	-0.0	PASS
			QPSK	VN	-10	0.98	0.0	PASS
			QPSK	VN	0	-0.75	-0.0	PASS
			QPSK	VN	10	2.18	0.0	PASS
			QPSK	VN	20	-3.12	-0.0	PASS
			QPSK	VN	30	-0.35	-0.0	PASS
			QPSK	VN	40	3.45	0.0	PASS
			QPSK	VN	50	-3.46	-0.0	PASS
		MCH	QPSK	VN	-30	4.03	0.0	PASS
			QPSK	VN	-20	1.67	0.0	PASS
			QPSK	VN	-10	1.13	0.0	PASS
			QPSK	VN	0	0.18	0.0	PASS
			QPSK	VN	10	-1.38	-0.0	PASS
			QPSK	VN	20	4.99	0.0	PASS
			QPSK	VN	30	0.95	0.0	PASS
			QPSK	VN	40	-0.80	-0.0	PASS
			QPSK	VN	50	-1.27	-0.0	PASS
		HCH	QPSK	VN	-30	-1.82	-0.0	PASS
			QPSK	VN	-20	-1.88	-0.0	PASS
			QPSK	VN	-10	-1.74	-0.0	PASS
			QPSK	VN	0	-2.36	-0.0	PASS
			QPSK	VN	10	1.27	0.0	PASS
			QPSK	VN	20	-1.01	-0.0	PASS
			QPSK	VN	30	-1.09	-0.0	PASS
			QPSK	VN	40	-0.62	-0.0	PASS
			QPSK	VN	50	1.59	0.0	PASS

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	7.66	0.0	PASS
			16QAM	VN	-20	-0.80	-0.0	PASS
			16QAM	VN	-10	1.75	0.0	PASS
			16QAM	VN	0	-3.80	-0.0	PASS
			16QAM	VN	10	11.38	0.0	PASS
			16QAM	VN	20	2.63	0.0	PASS
			16QAM	VN	30	-0.40	-0.0	PASS
			16QAM	VN	40	17.14	0.01	PASS
			16QAM	VN	50	-4.57	-0.0	PASS
		MCH	16QAM	VN	-30	10.79	0.0	PASS
			16QAM	VN	-20	6.18	0.0	PASS
			16QAM	VN	-10	-1.21	-0.0	PASS
			16QAM	VN	0	5.20	0.0	PASS
			16QAM	VN	10	-0.25	-0.0	PASS
			16QAM	VN	20	1.99	0.0	PASS
			16QAM	VN	30	-4.51	-0.0	PASS
			16QAM	VN	40	4.32	0.0	PASS
			16QAM	VN	50	5.49	0.0	PASS
		HCH	16QAM	VN	-30	-4.20	-0.0	PASS
			16QAM	VN	-20	-5.09	-0.0	PASS
			16QAM	VN	-10	10.93	0.0	PASS
			16QAM	VN	0	10.01	0.0	PASS
			16QAM	VN	10	-2.01	-0.0	PASS
			16QAM	VN	20	-0.52	-0.0	PASS
			16QAM	VN	30	-0.70	-0.0	PASS
			16QAM	VN	40	5.95	0.0	PASS
			16QAM	VN	50	-2.96	-0.0	PASS

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	-0.91	-0.0	PASS
			16QAM	VN	-20	-1.54	-0.0	PASS
			16QAM	VN	-10	-0.22	-0.0	PASS
			16QAM	VN	0	-0.65	-0.0	PASS
			16QAM	VN	10	-0.36	-0.0	PASS
			16QAM	VN	20	2.61	0.0	PASS
			16QAM	VN	30	-7.16	-0.0	PASS
			16QAM	VN	40	-4.09	-0.0	PASS
			16QAM	VN	50	6.31	0.0	PASS
		MCH	16QAM	VN	-30	4.27	0.0	PASS
			16QAM	VN	-20	1.97	0.0	PASS
			16QAM	VN	-10	5.71	0.0	PASS
			16QAM	VN	0	-0.83	-0.0	PASS
			16QAM	VN	10	4.48	0.0	PASS
			16QAM	VN	20	3.06	0.0	PASS
			16QAM	VN	30	-0.52	-0.0	PASS
			16QAM	VN	40	-0.98	-0.0	PASS
			16QAM	VN	50	-1.13	-0.0	PASS
		HCH	16QAM	VN	-30	-1.45	-0.0	PASS
			16QAM	VN	-20	5.58	0.0	PASS
			16QAM	VN	-10	-1.11	-0.0	PASS
			16QAM	VN	0	-6.41	-0.0	PASS
			16QAM	VN	10	2.74	0.0	PASS
			16QAM	VN	20	-2.33	-0.0	PASS
			16QAM	VN	30	5.23	0.0	PASS
			16QAM	VN	40	6.38	0.0	PASS
			16QAM	VN	50	2.02	0.0	PASS

Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	15	LCH	16QAM	VN	-30	-0.57	-0.0	PASS
			16QAM	VN	-20	-1.64	-0.0	PASS
			16QAM	VN	-10	-3.99	-0.0	PASS
			16QAM	VN	0	2.28	0.0	PASS
			16QAM	VN	10	-0.04	-0.0	PASS
			16QAM	VN	20	-4.73	-0.0	PASS
			16QAM	VN	30	-1.90	-0.0	PASS
			16QAM	VN	40	2.57	0.0	PASS
			16QAM	VN	50	-3.07	-0.0	PASS
		MCH	16QAM	VN	-30	-0.91	-0.0	PASS
			16QAM	VN	-20	4.20	0.0	PASS
			16QAM	VN	-10	-1.96	-0.0	PASS
			16QAM	VN	0	2.52	0.0	PASS
			16QAM	VN	10	0.84	0.0	PASS
			16QAM	VN	20	2.66	0.0	PASS
			16QAM	VN	30	-0.90	-0.0	PASS
			16QAM	VN	40	-2.05	-0.0	PASS
			16QAM	VN	50	2.36	0.0	PASS
		HCH	16QAM	VN	-30	-0.81	-0.0	PASS
			16QAM	VN	-20	-2.78	-0.0	PASS
			16QAM	VN	-10	0.50	0.0	PASS
			16QAM	VN	0	-2.72	-0.0	PASS
			16QAM	VN	10	2.70	0.0	PASS
			16QAM	VN	20	1.91	0.0	PASS
			16QAM	VN	30	0.82	0.0	PASS
			16QAM	VN	40	2.45	0.0	PASS
			16QAM	VN	50	2.64	0.0	PASS

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	0.40	0.0	PASS
			16QAM	VN	-20	3.09	0.0	PASS
			16QAM	VN	-10	-6.48	-0.0	PASS
			16QAM	VN	0	-2.16	-0.0	PASS
			16QAM	VN	10	2.42	0.0	PASS
			16QAM	VN	20	0.17	0.0	PASS
			16QAM	VN	30	-0.42	-0.0	PASS
			16QAM	VN	40	-1.24	-0.0	PASS
			16QAM	VN	50	0.34	0.0	PASS
		MCH	16QAM	VN	-30	0.44	0.0	PASS
			16QAM	VN	-20	0.69	0.0	PASS
			16QAM	VN	-10	1.77	0.0	PASS
			16QAM	VN	0	2.05	0.0	PASS
			16QAM	VN	10	1.87	0.0	PASS
			16QAM	VN	20	1.81	0.0	PASS
			16QAM	VN	30	-1.89	-0.0	PASS
			16QAM	VN	40	-0.92	-0.0	PASS
			16QAM	VN	50	2.25	0.0	PASS
		HCH	16QAM	VN	-30	-0.25	-0.0	PASS
			16QAM	VN	-20	0.65	0.0	PASS
			16QAM	VN	-10	-2.59	-0.0	PASS
			16QAM	VN	0	0.40	0.0	PASS
			16QAM	VN	10	-0.70	-0.0	PASS
			16QAM	VN	20	2.50	0.0	PASS
			16QAM	VN	30	-1.93	-0.0	PASS
			16QAM	VN	40	0.73	0.0	PASS
			16QAM	VN	50	2.52	0.0	PASS

End of Test Report