Appendix for LTE CA_66C

Model: LGE-NX9

BTL-FCCP-3-2203G019

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1. APPENDIX A - EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

1.1 TEST RESULTS

Effective (Isotropic) Radiated Power of Transmitter										
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Measured [dBm]	Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
TM1	20+5	LCH	RB100#0	RB25#0	QPSK	20.34	-3.2	17.14	30	PASS
			RB1#0	RB1#24	QPSK	18.84	-3.2	15.64	30	PASS
		MCH	RB100#0	RB25#0	QPSK	20.24	-3.2	17.04	30	PASS
			RB1#0	RB1#24	QPSK	18.67	-3.2	15.47	30	PASS
		HCH	RB100#0	RB25#0	QPSK	20.17	-3.2	16.97	30	PASS
			RB1#0	RB1#24	QPSK	18.64	-3.2	15.44	30	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	20.40	-3.2	17.20	30	PASS
			RB1#0	RB1#99	QPSK	17.89	-3.2	14.69	30	PASS
		MCH	RB100#0	RB100#0	QPSK	20.35	-3.2	17.15	30	PASS
			RB1#0	RB1#99	QPSK	17.82	-3.2	14.62	30	PASS
		HCH	RB100#0	RB100#0	QPSK	20.29	-3.2	17.09	30	PASS
			RB1#0	RB1#99	QPSK	17.74	-3.2	14.54	30	PASS
TM2	20+5	LCH	RB100#0	RB25#0	16QAM	20.34	-3.2	17.14	30	PASS
			RB1#0	RB1#24	16QAM	18.86	-3.2	15.66	30	PASS
		MCH	RB100#0	RB25#0	16QAM	20.23	-3.2	17.03	30	PASS
			RB1#0	RB1#24	16QAM	18.71	-3.2	15.51	30	PASS
		HCH	RB100#0	RB25#0	16QAM	20.15	-3.2	16.95	30	PASS
			RB1#0	RB1#24	16QAM	18.67	-3.2	15.47	30	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	20.41	-3.2	17.21	30	PASS
			RB1#0	RB1#99	16QAM	17.90	-3.2	14.7	30	PASS
		MCH	RB100#0	RB100#0	16QAM	20.37	-3.2	17.17	30	PASS
			RB1#0	RB1#99	16QAM	17.82	-3.2	14.62	30	PASS
		HCH	RB100#0	RB100#0	16QAM	20.30	-3.2	17.10	30	PASS
			RB1#0	RB1#99	16QAM	17.79	-3.2	14.59	30	PASS

2. APPENDIX B - OCCUPIED BANDWIDTH

2.1 TEST RESULTS

Occupied Bandwidth								
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM1	20+5	LCH	RB100#0	RB25#0	QPSK	23.42	25.67	PASS
		MCH	RB100#0	RB25#0	QPSK	23.43	25.72	PASS
		HCH	RB100#0	RB25#0	QPSK	23.48	25.72	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	38.87	42.84	PASS
		MCH	RB100#0	RB100#0	QPSK	38.94	42.76	PASS
		HCH	RB100#0	RB100#0	QPSK	38.91	42.76	PASS
TM2	20+5	LCH	RB100#0	RB25#0	16QAM	23.36	25.52	PASS
		MCH	RB100#0	RB25#0	16QAM	23.32	25.23	PASS
		HCH	RB100#0	RB25#0	16QAM	23.41	25.62	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	38.63	42.44	PASS
		MCH	RB100#0	RB100#0	16QAM	38.60	42.44	PASS
		HCH	RB100#0	RB100#0	16QAM	38.67	42.52	PASS
TM3	20+5	LCH	RB100#0	RB25#0	64QAM	23.37	25.57	PASS
		MCH	RB100#0	RB25#0	64QAM	23.36	25.52	PASS
		HCH	RB100#0	RB25#0	64QAM	23.42	25.62	PASS
	20+20	LCH	RB100#0	RB100#0	64QAM	38.63	42.60	PASS
		MCH	RB100#0	RB100#0	64QAM	38.62	42.52	PASS
		HCH	RB100#0	RB100#0	64QAM	38.72	42.44	PASS

2.2 TEST PLOTS

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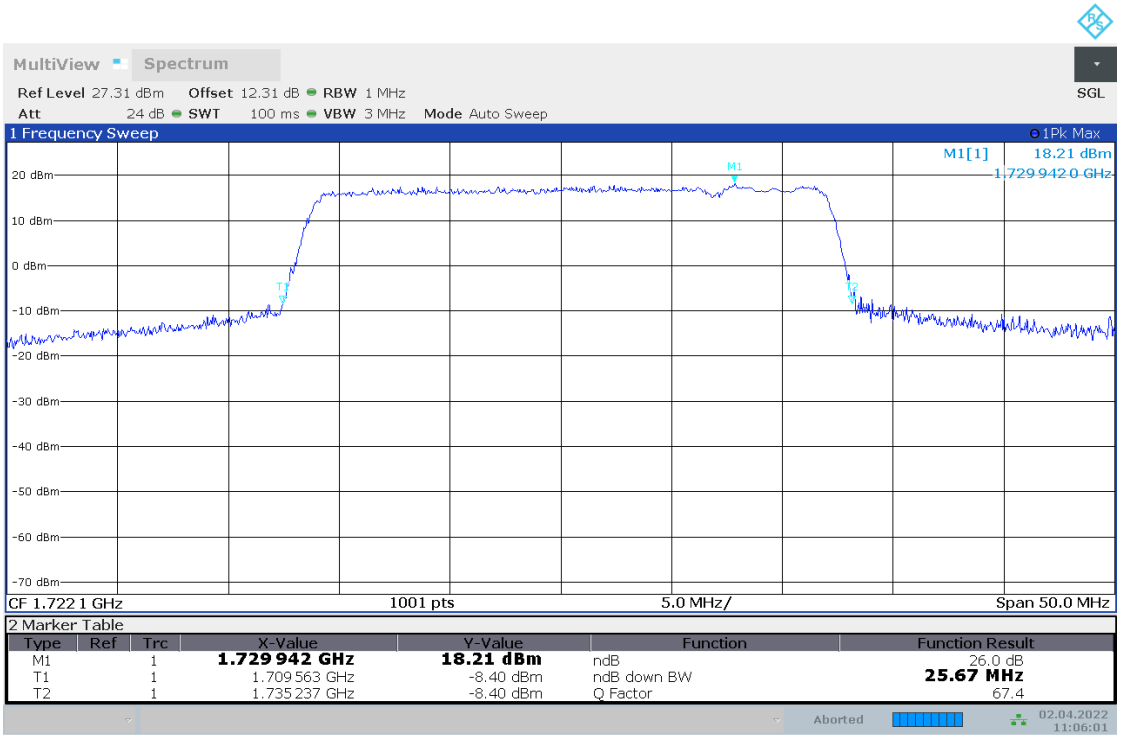

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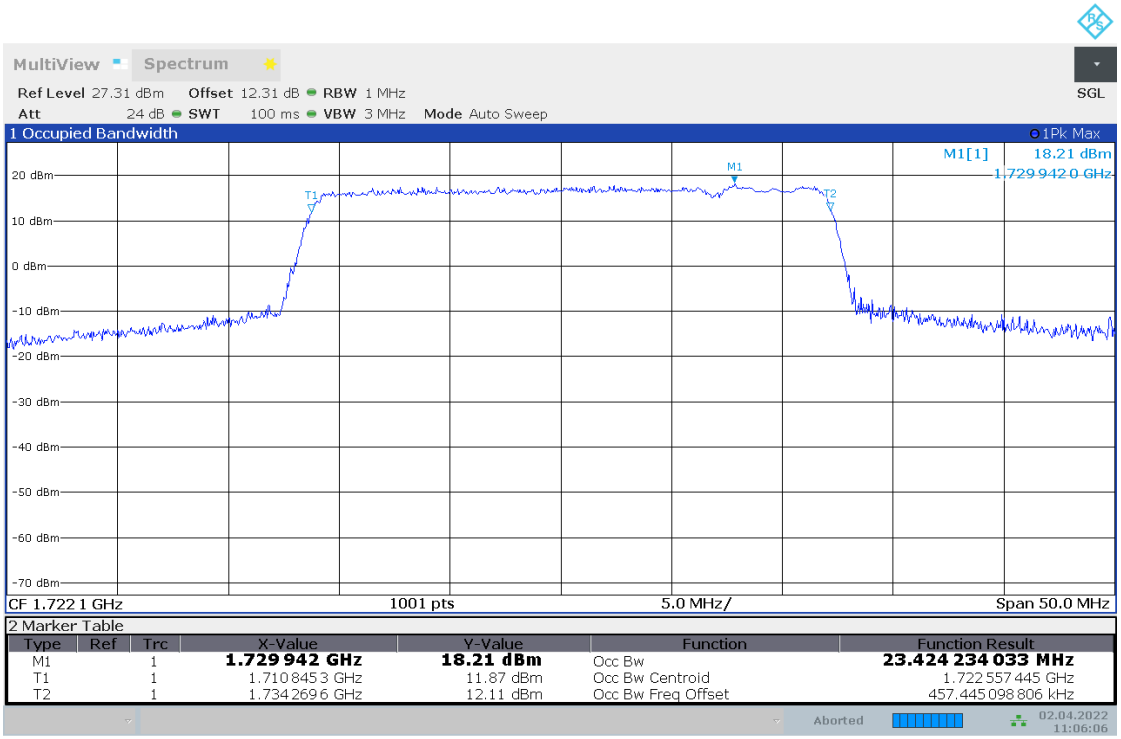

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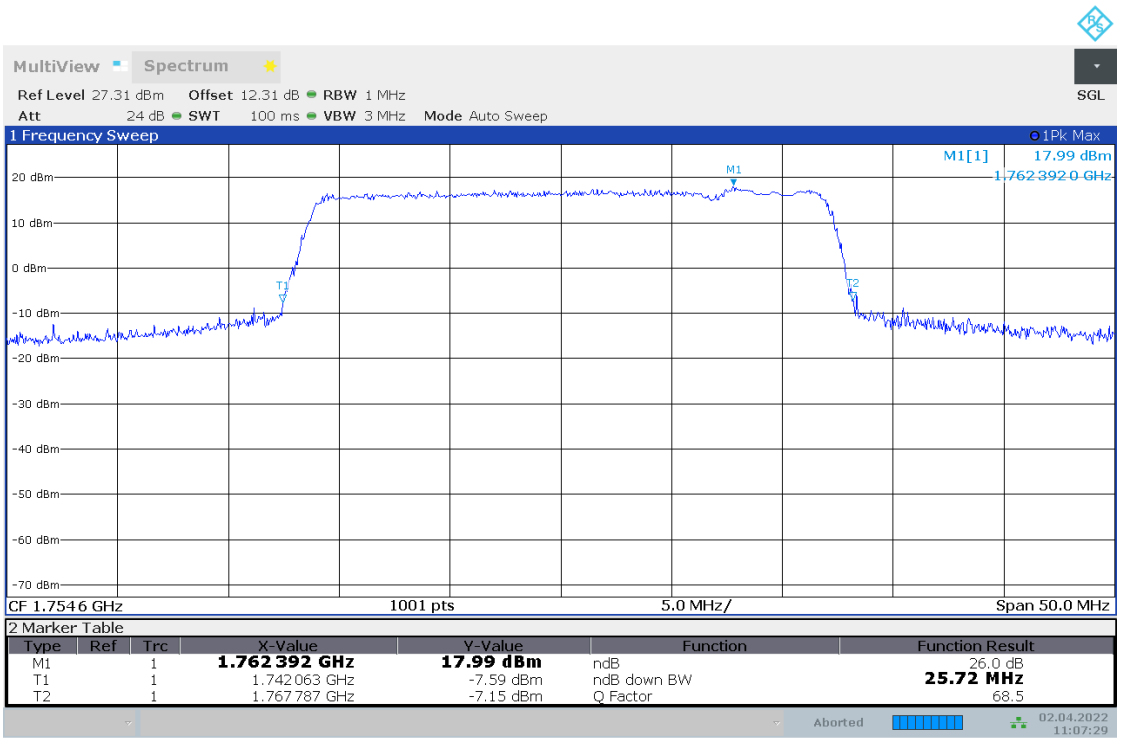

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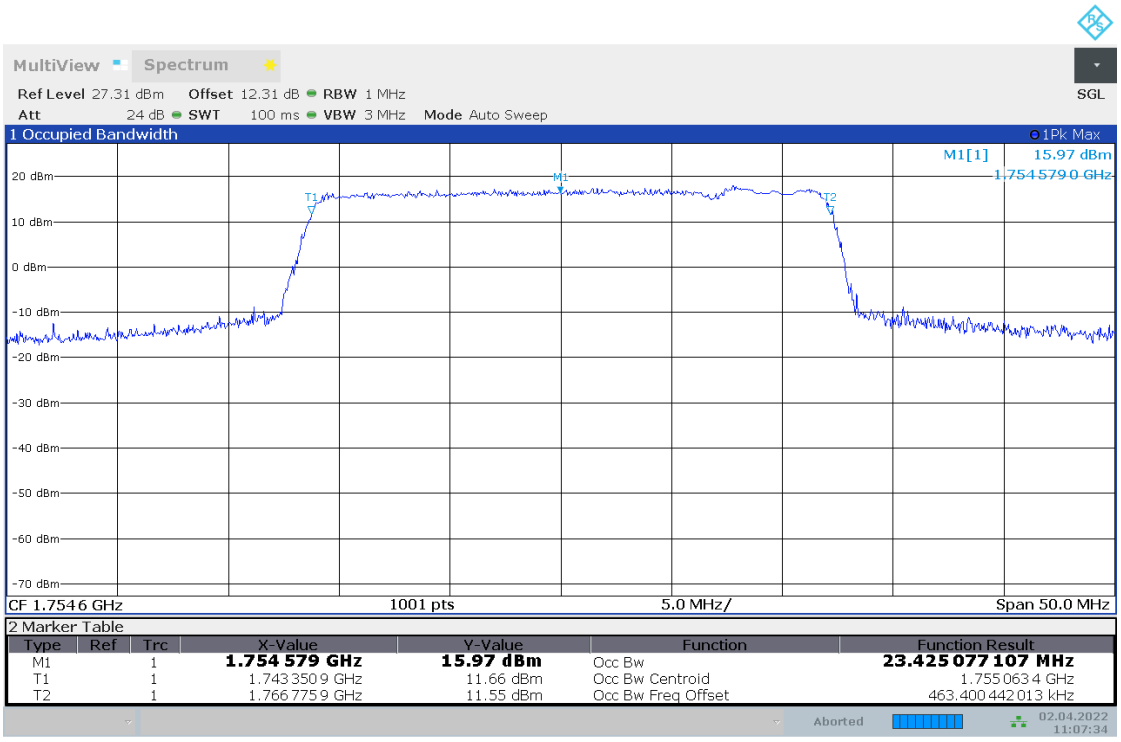

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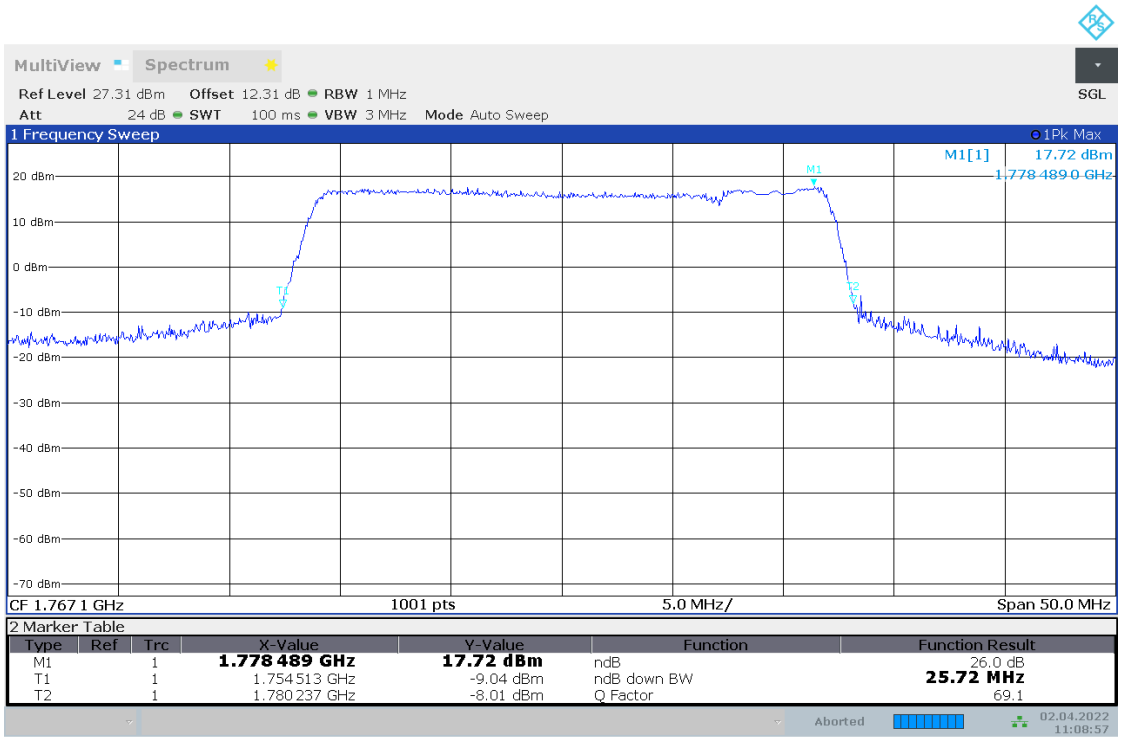

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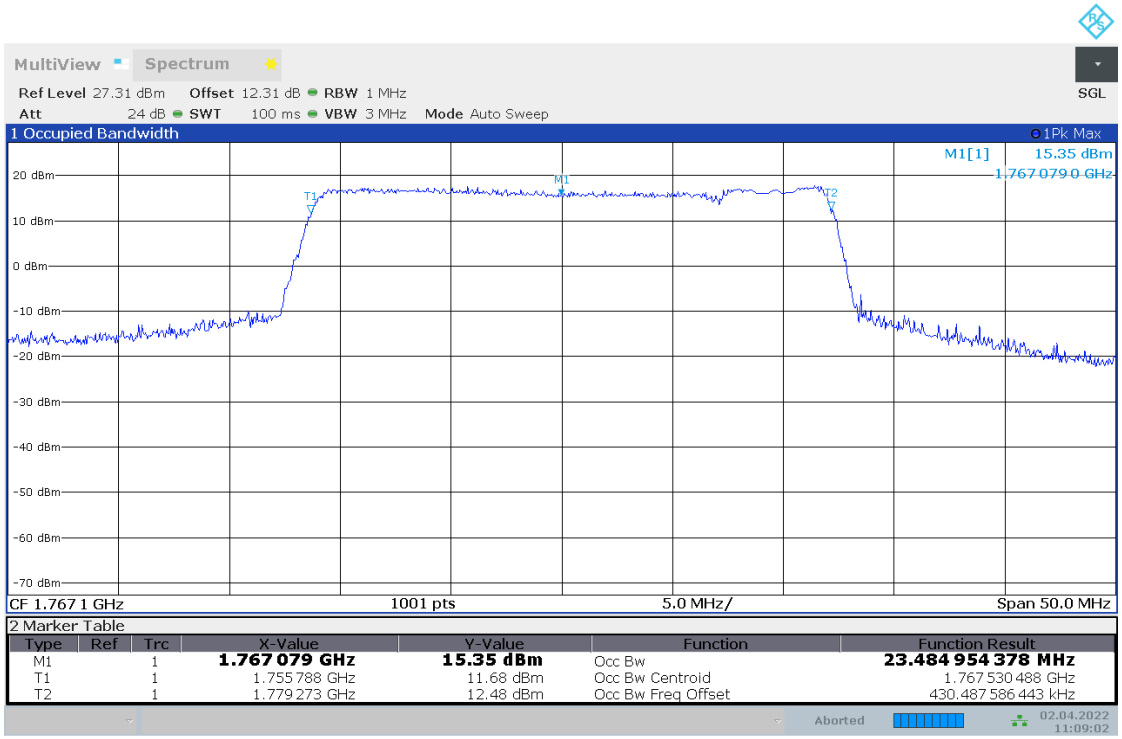

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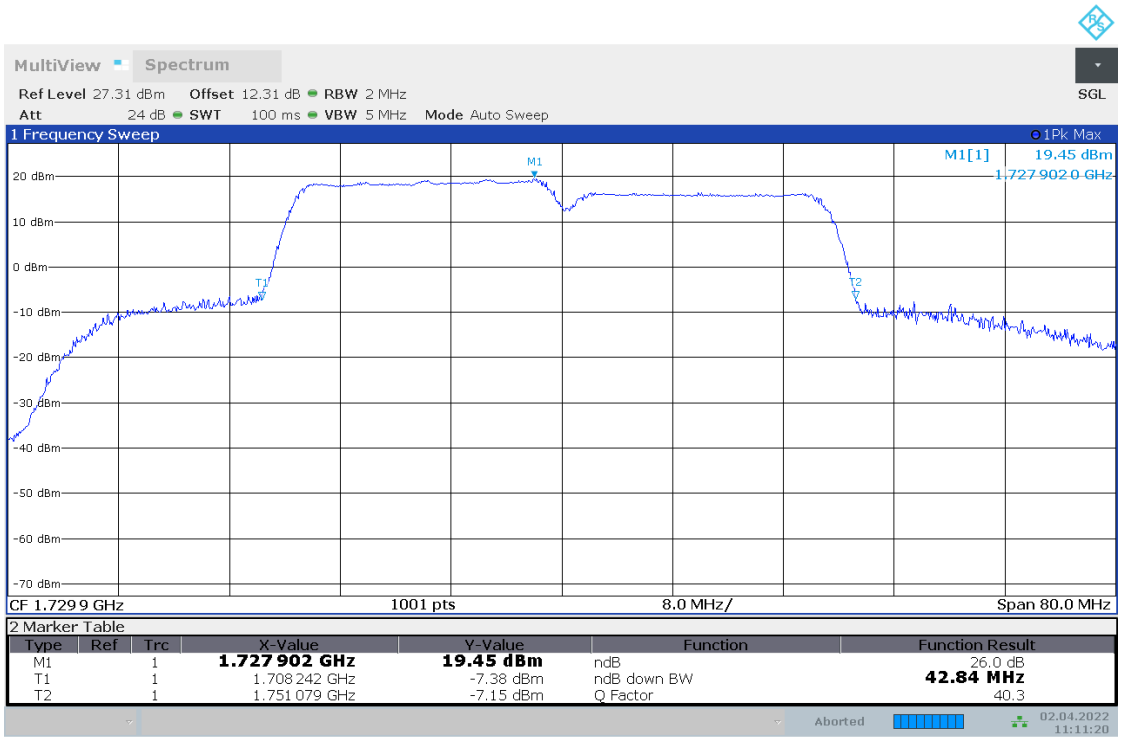

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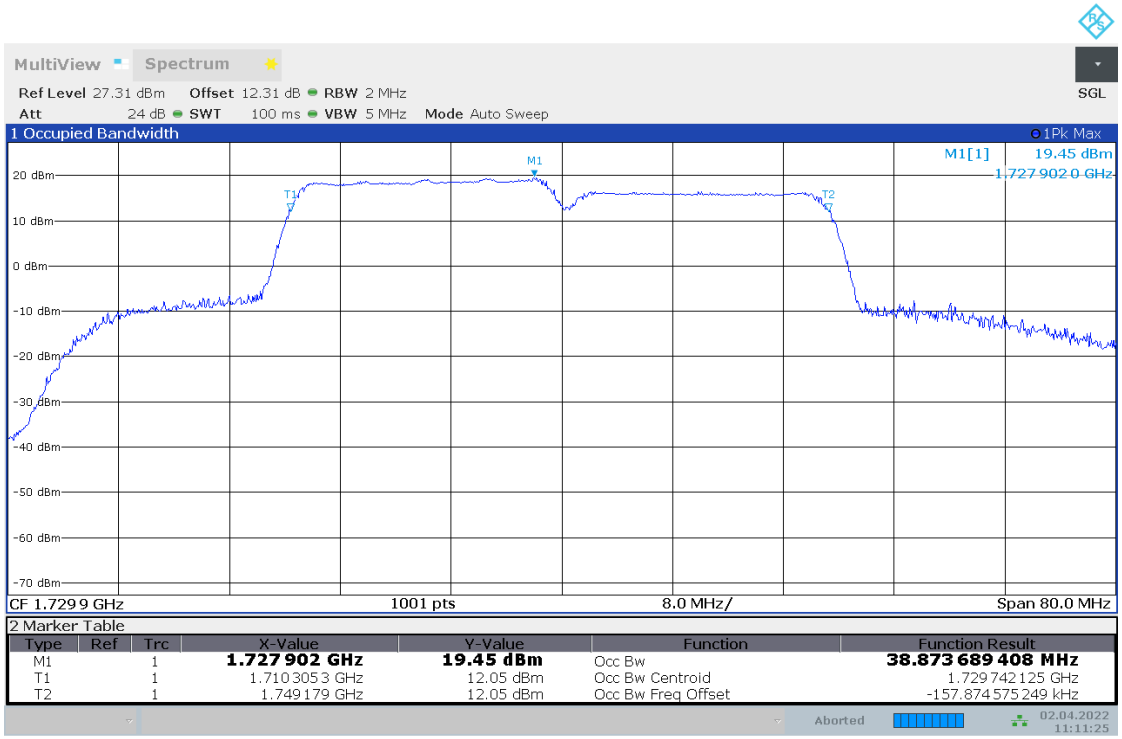

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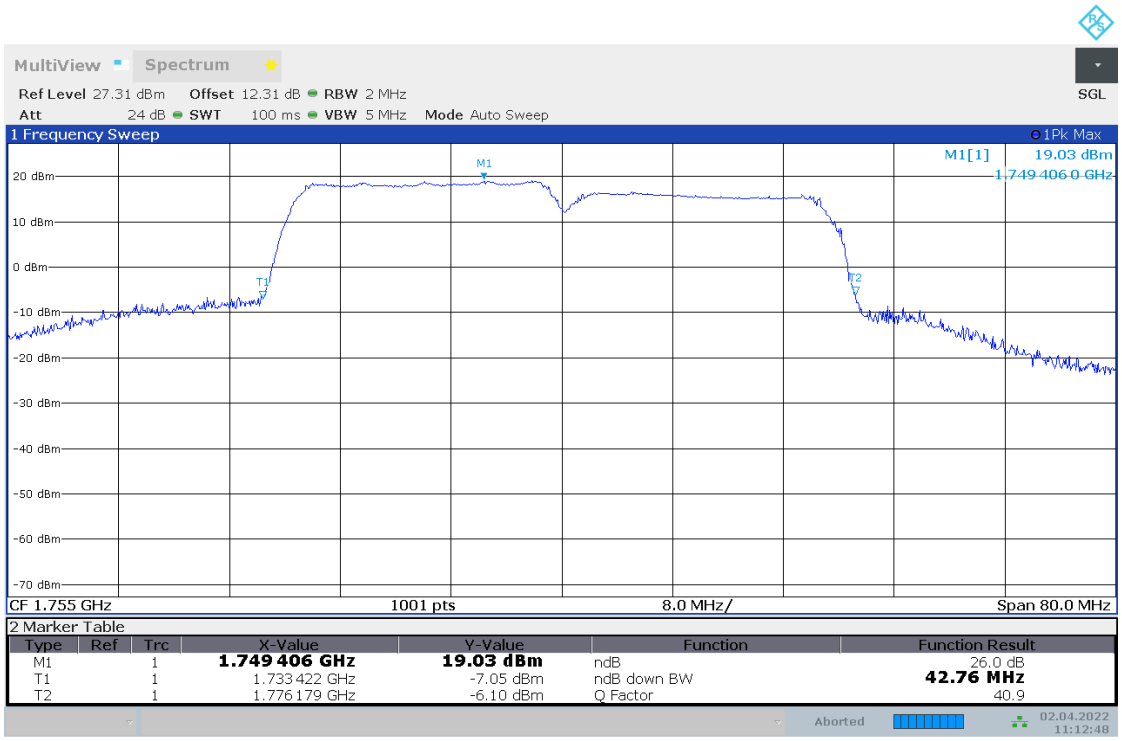

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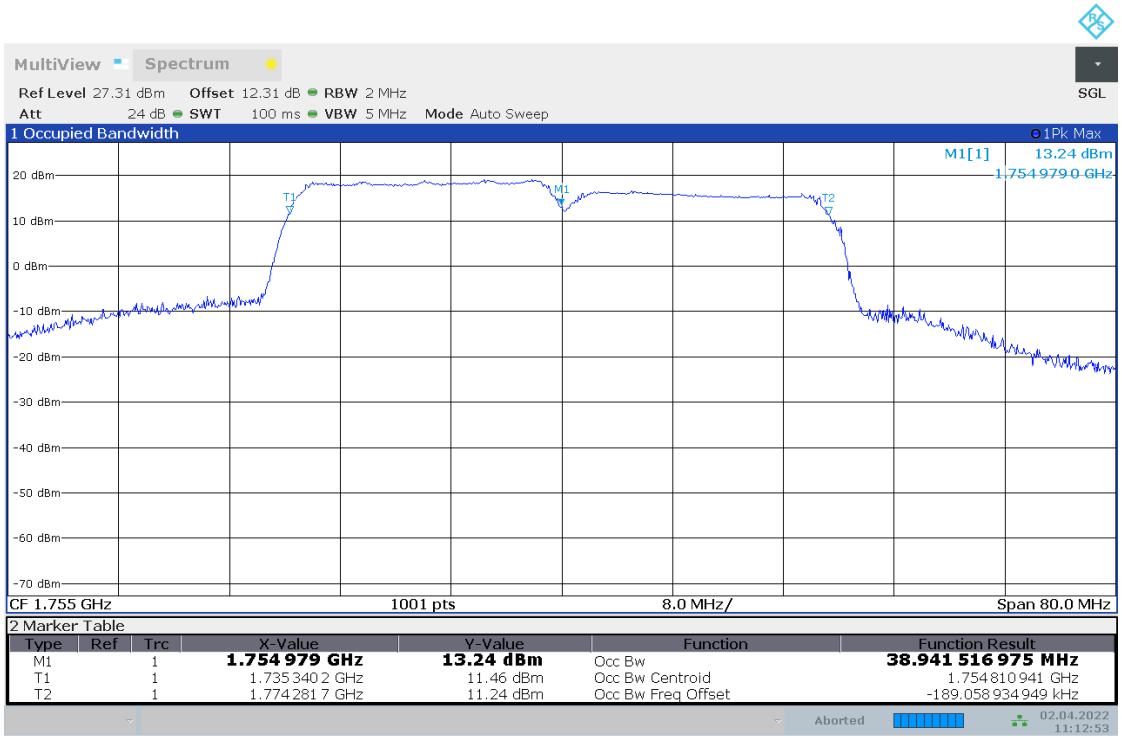

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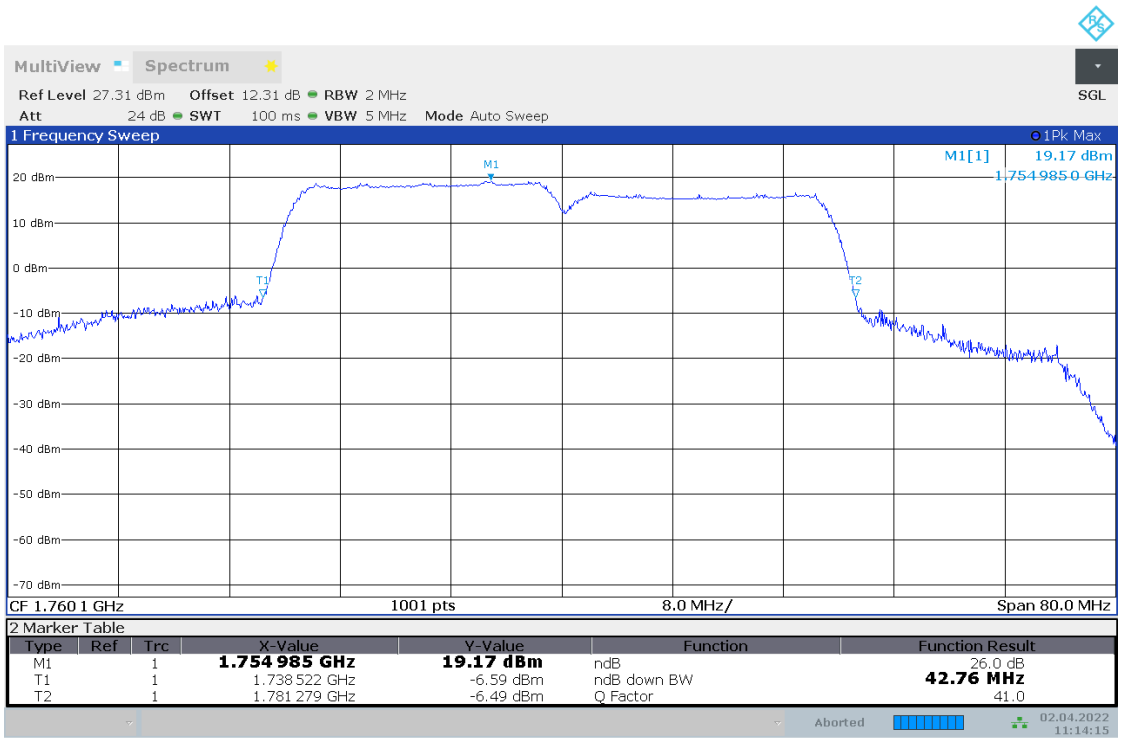

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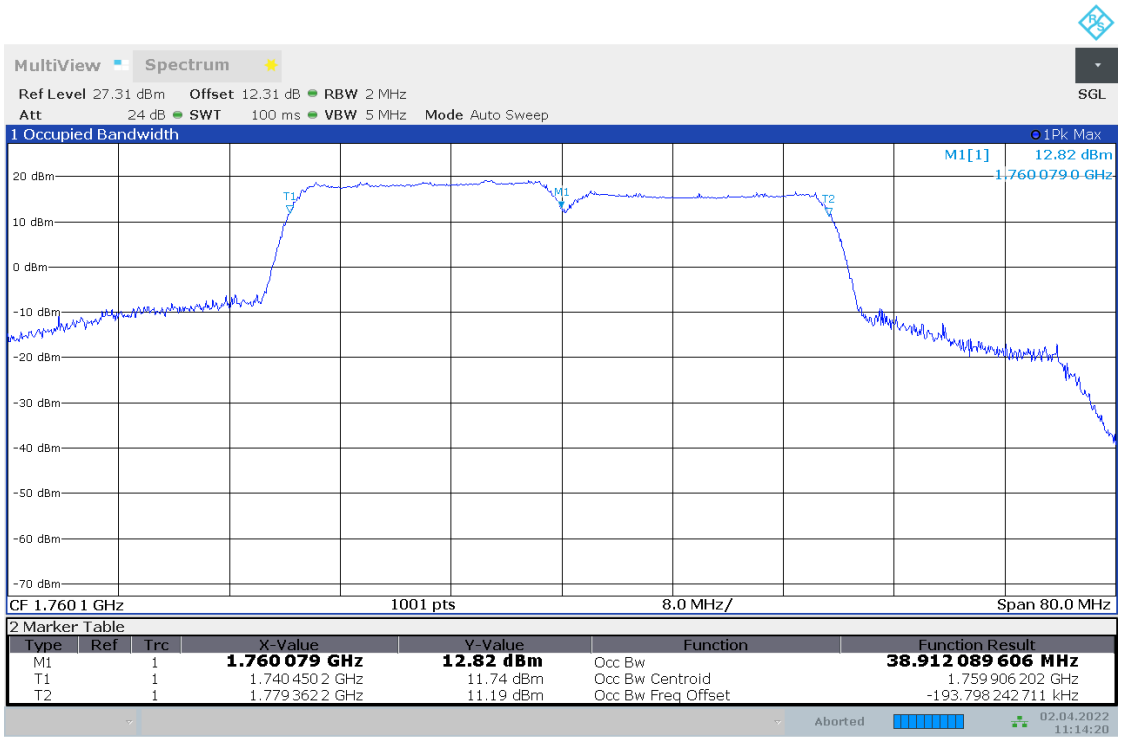

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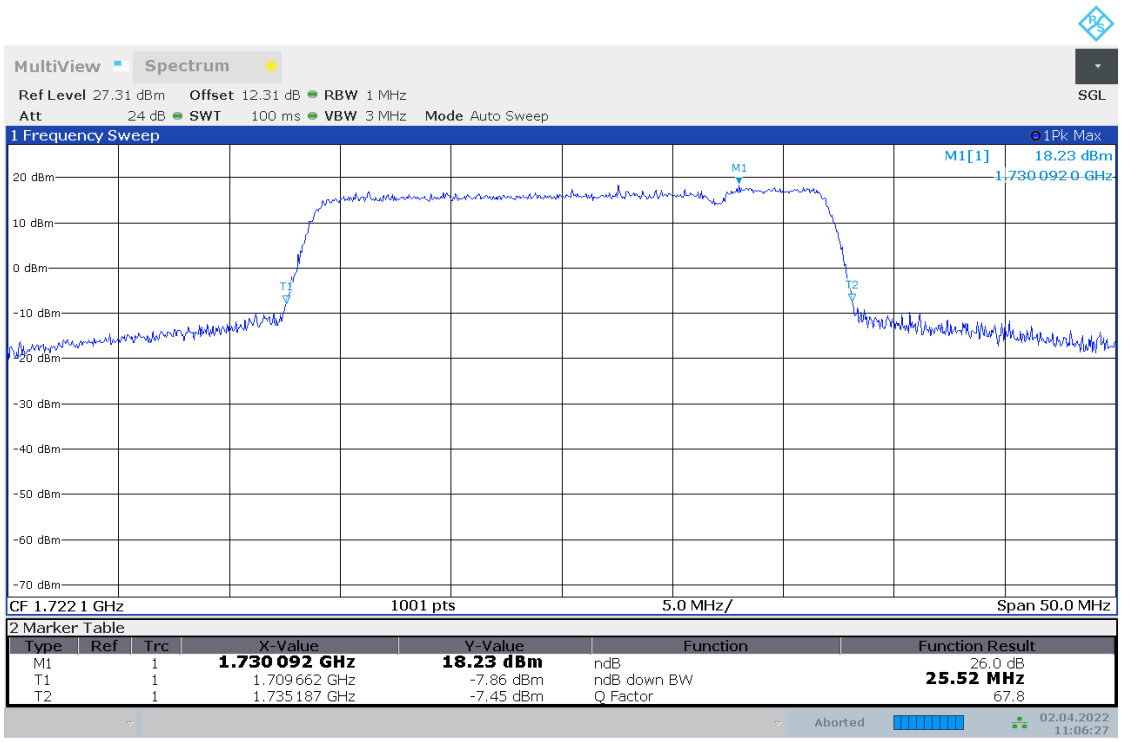

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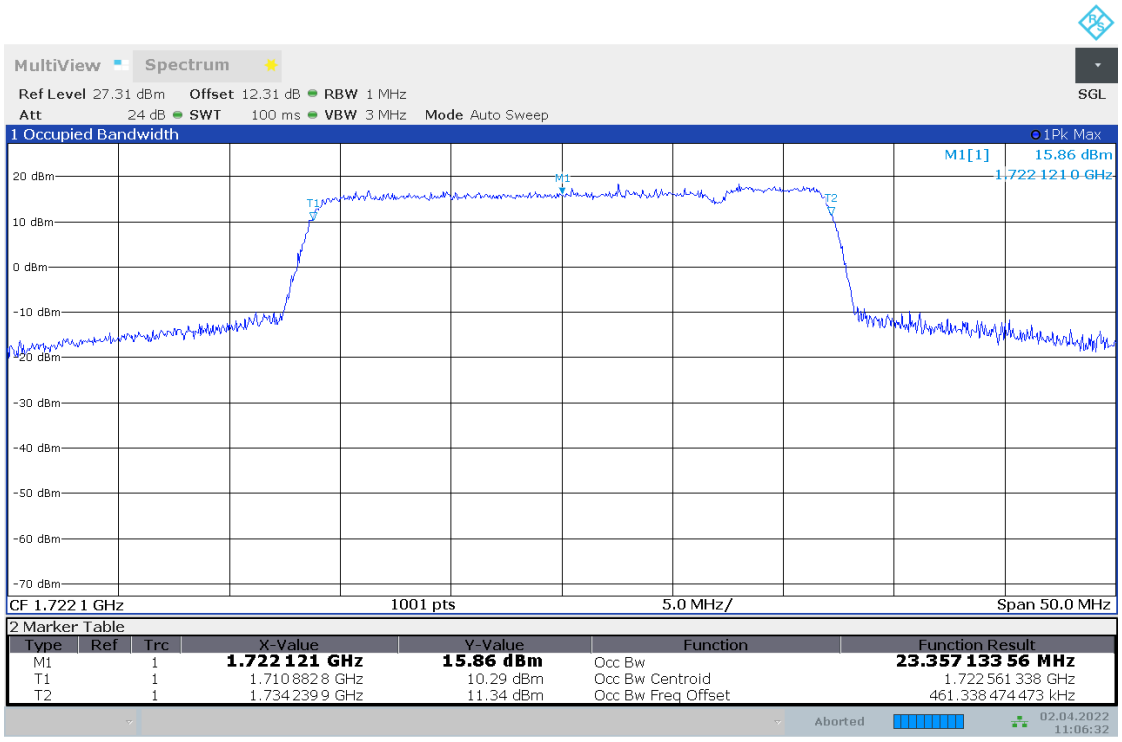

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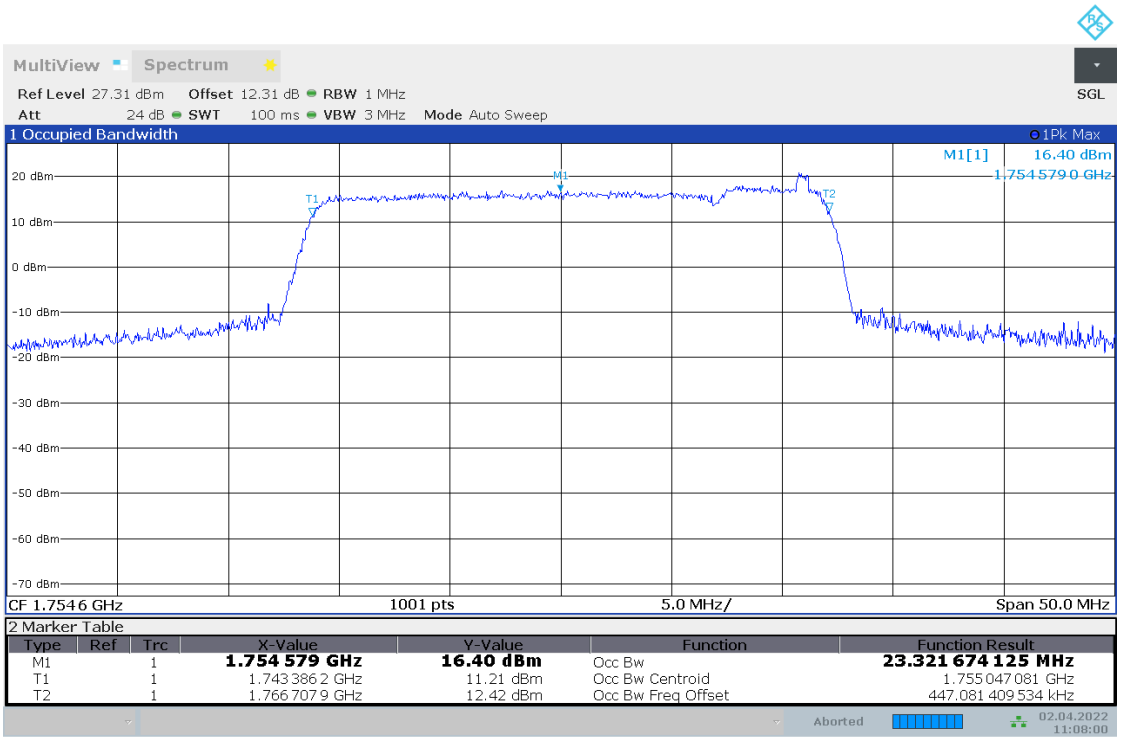

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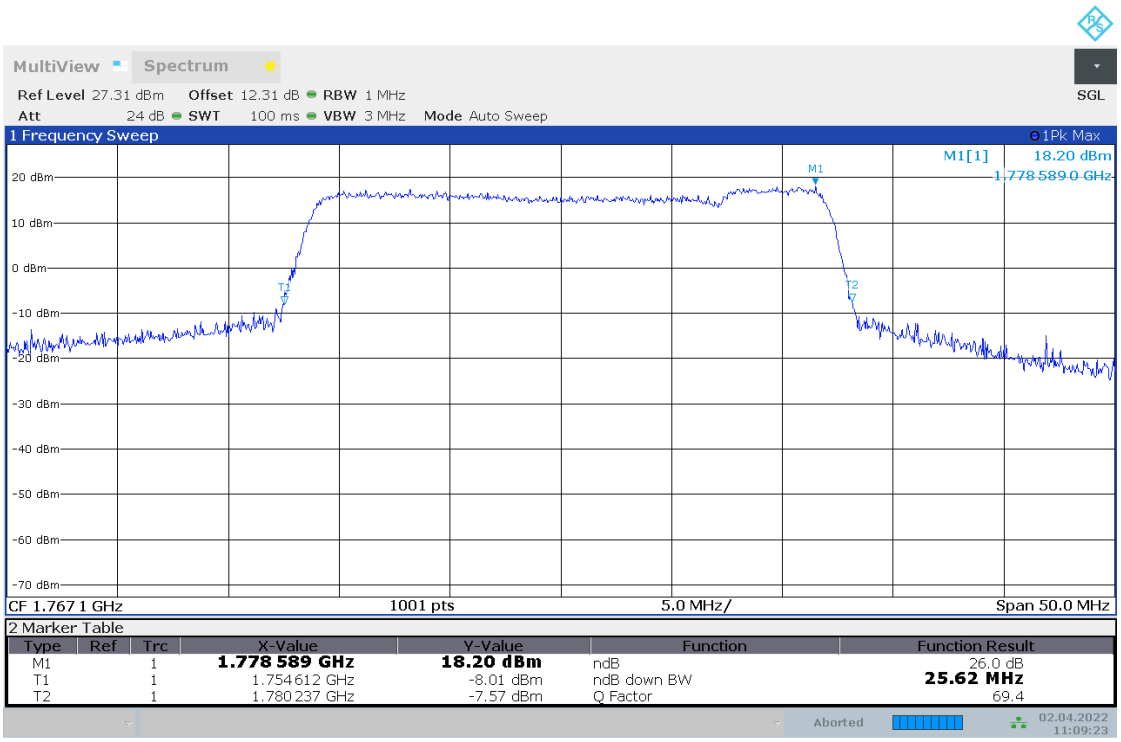

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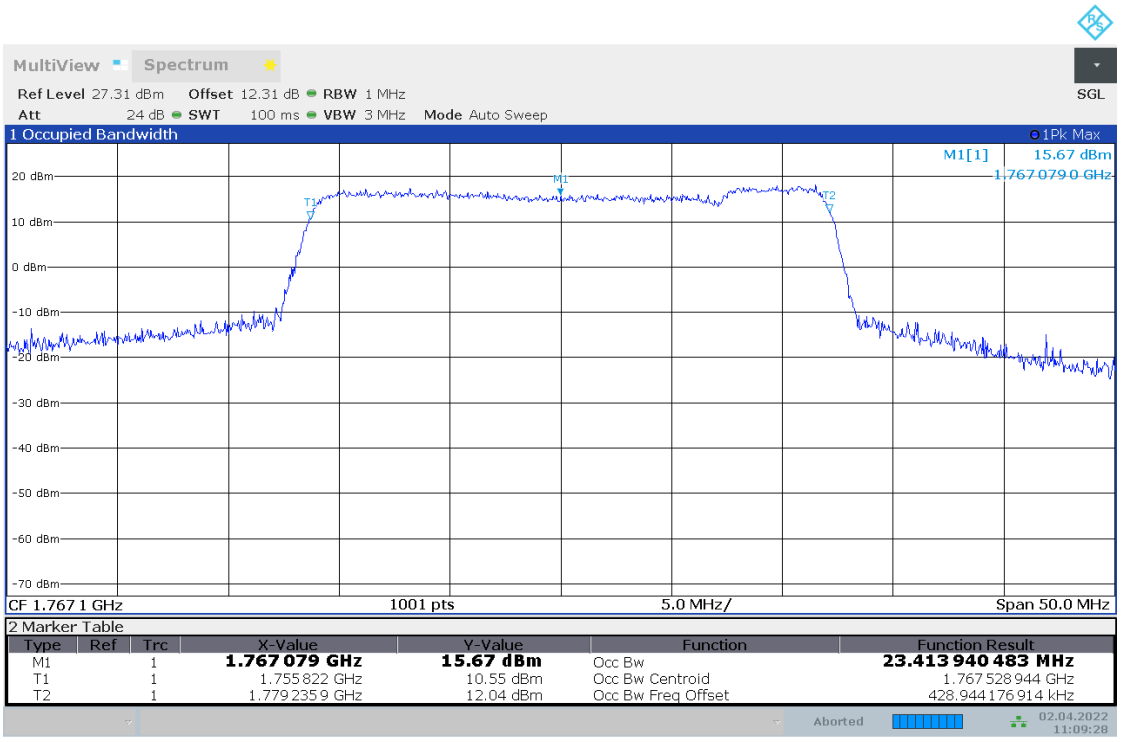

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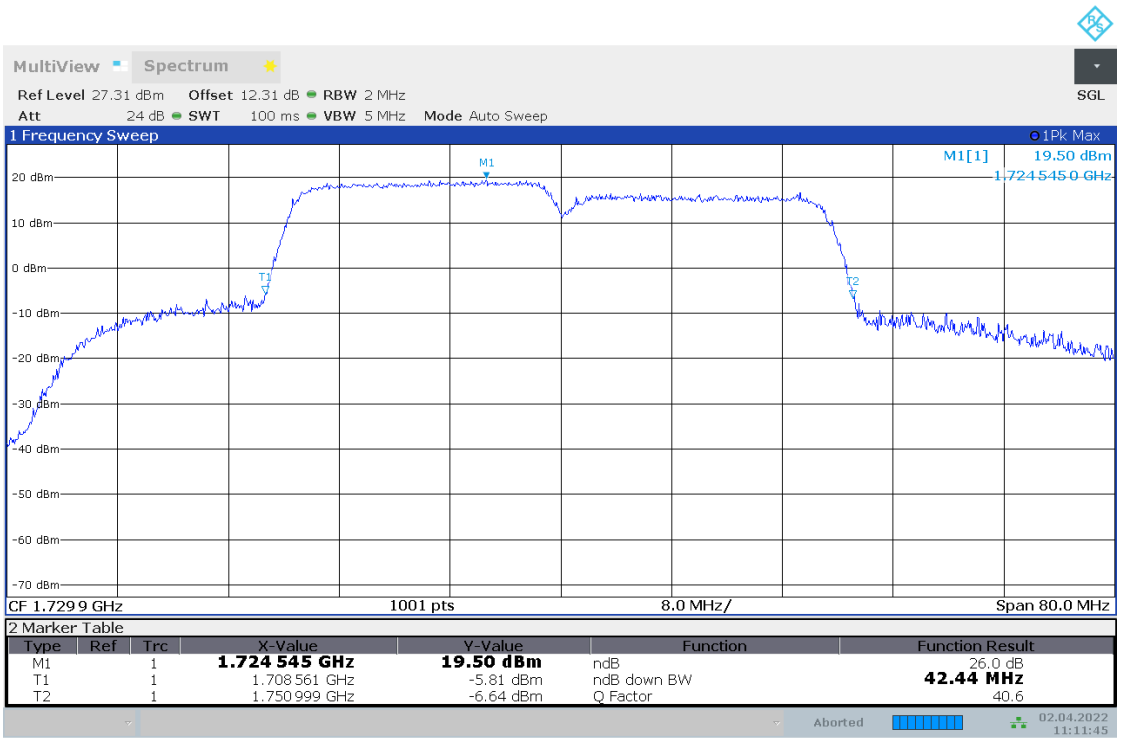

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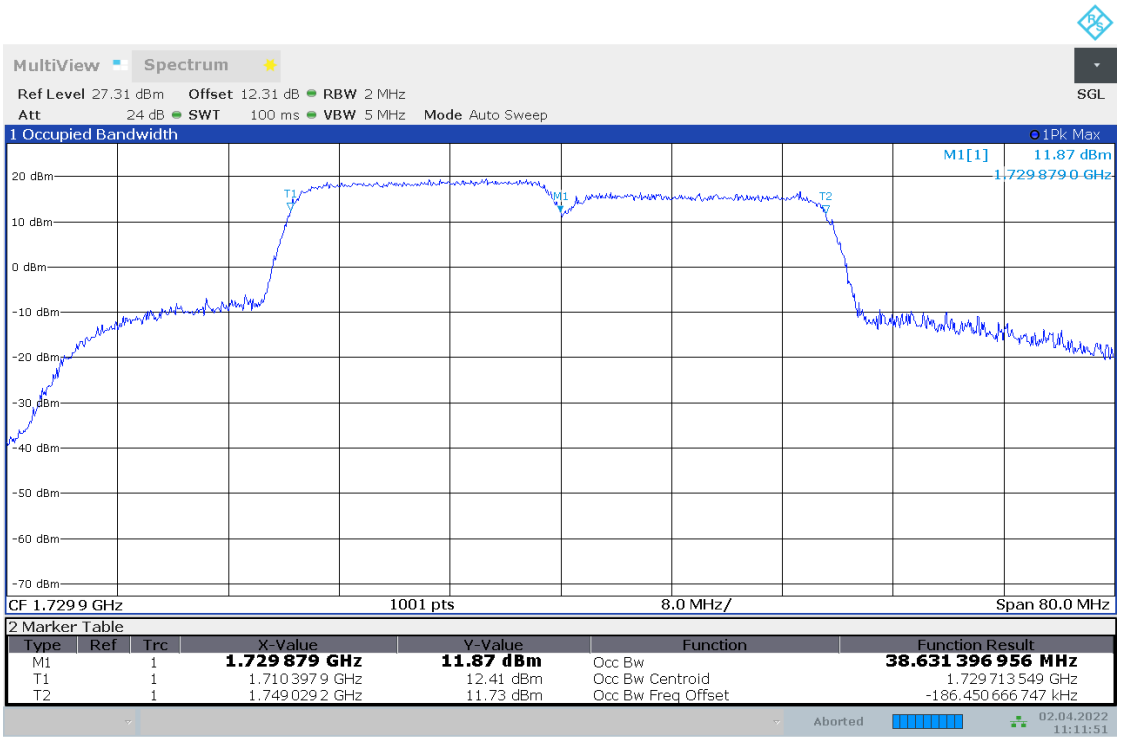

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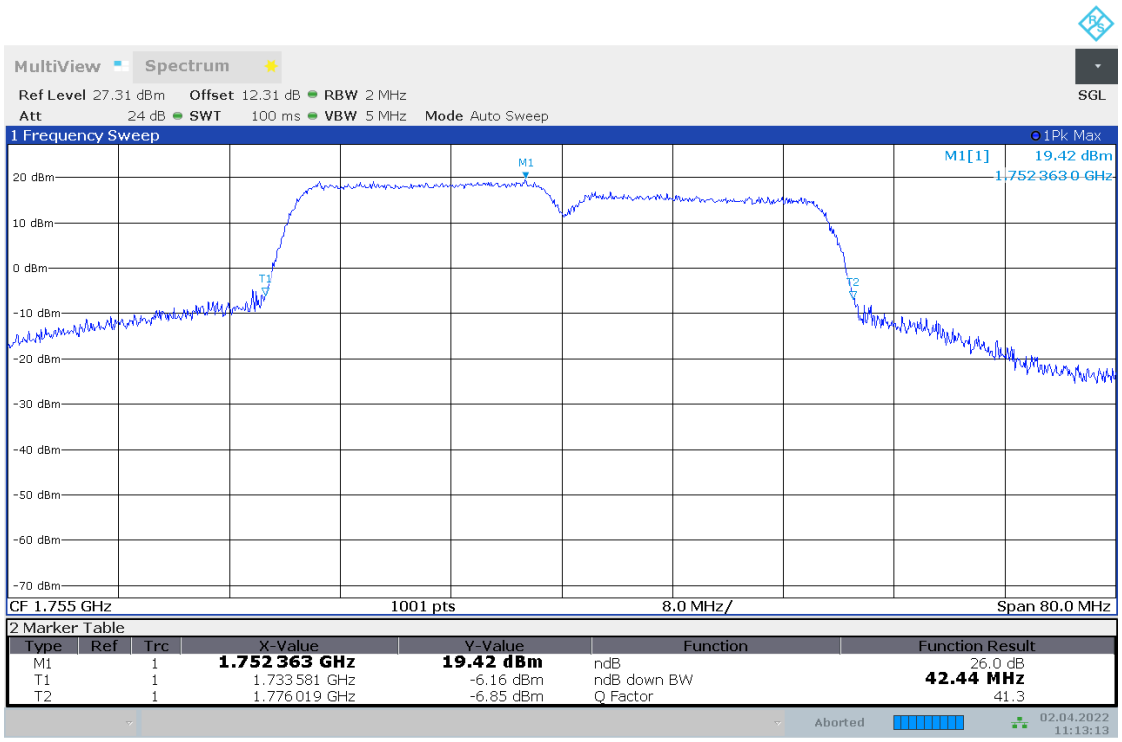

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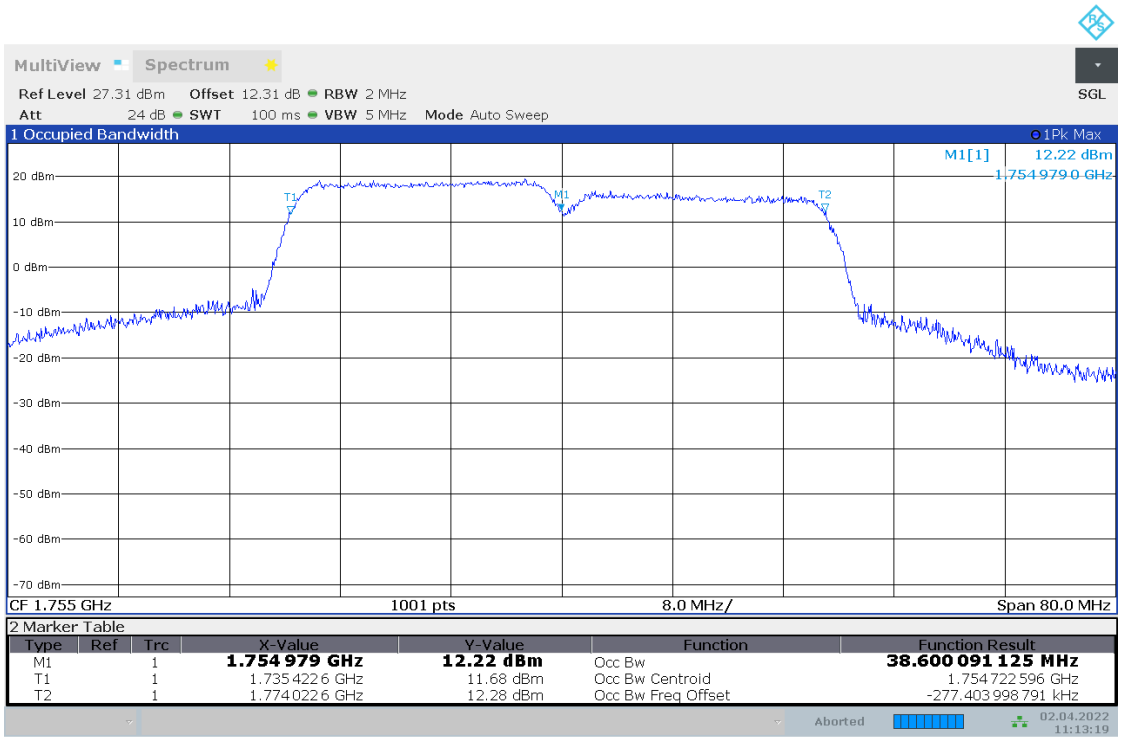

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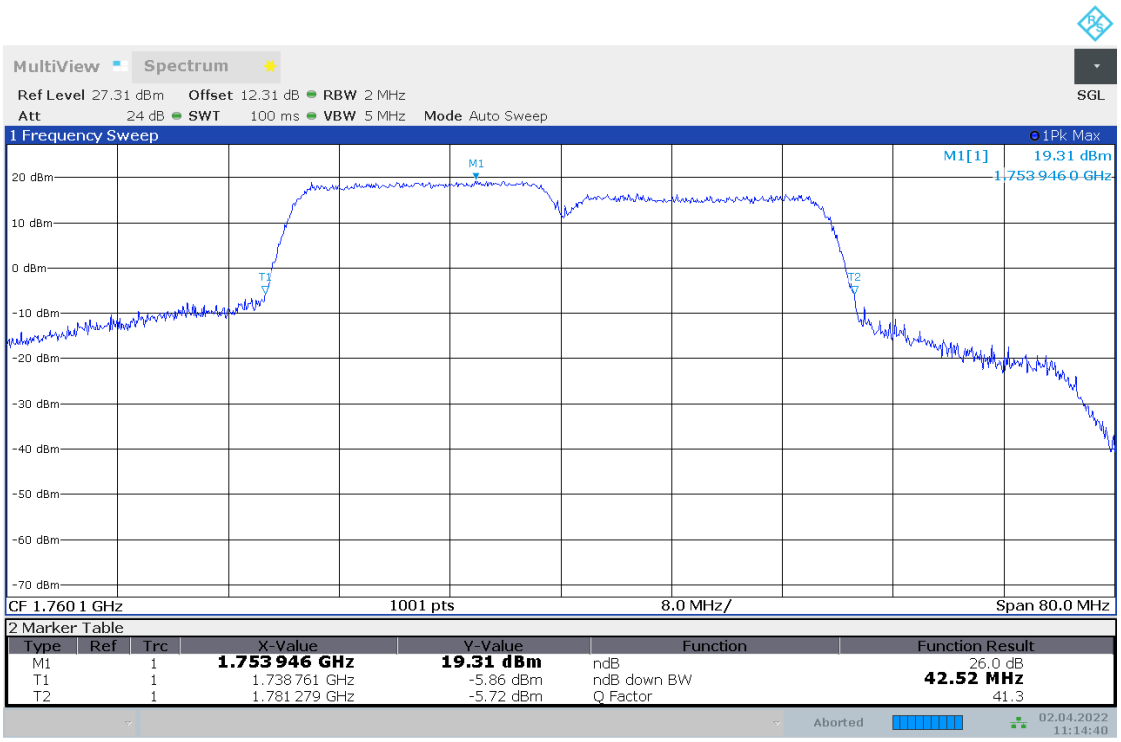

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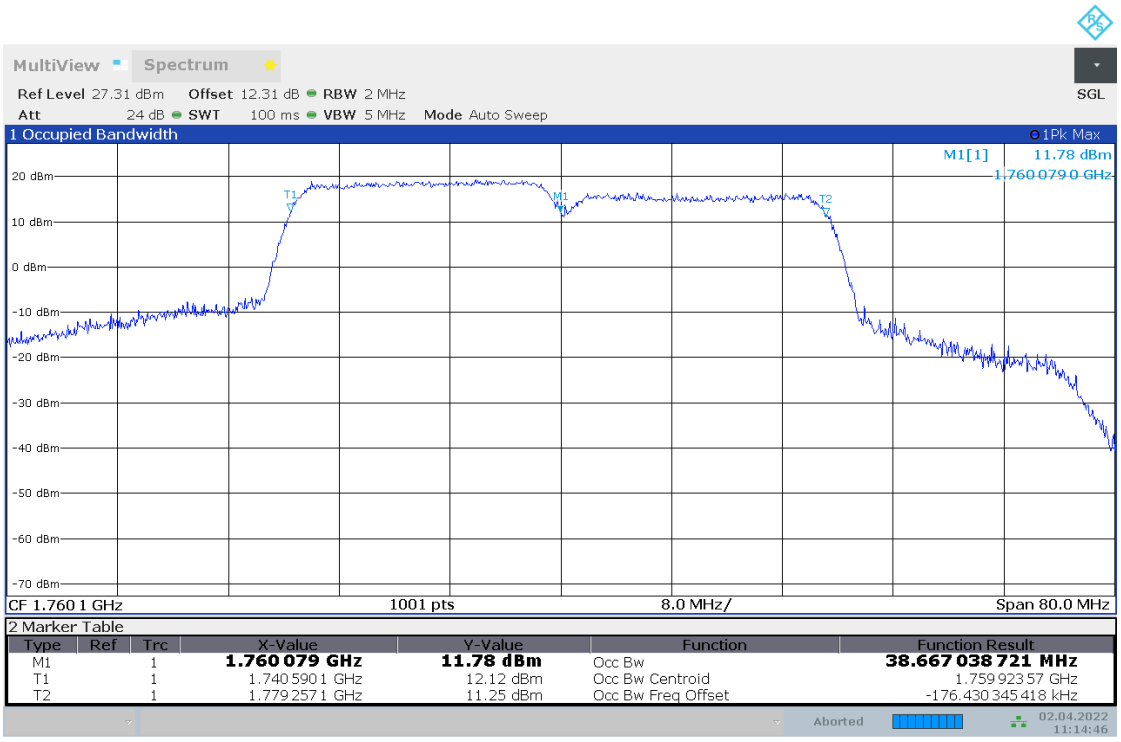

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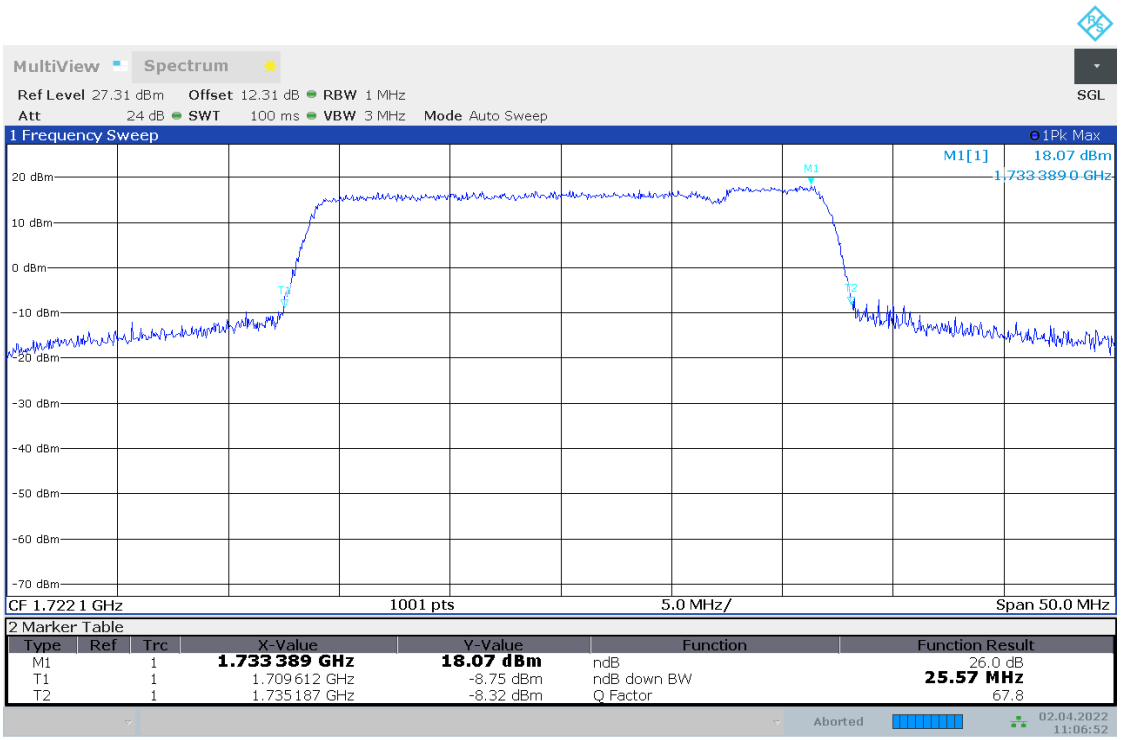
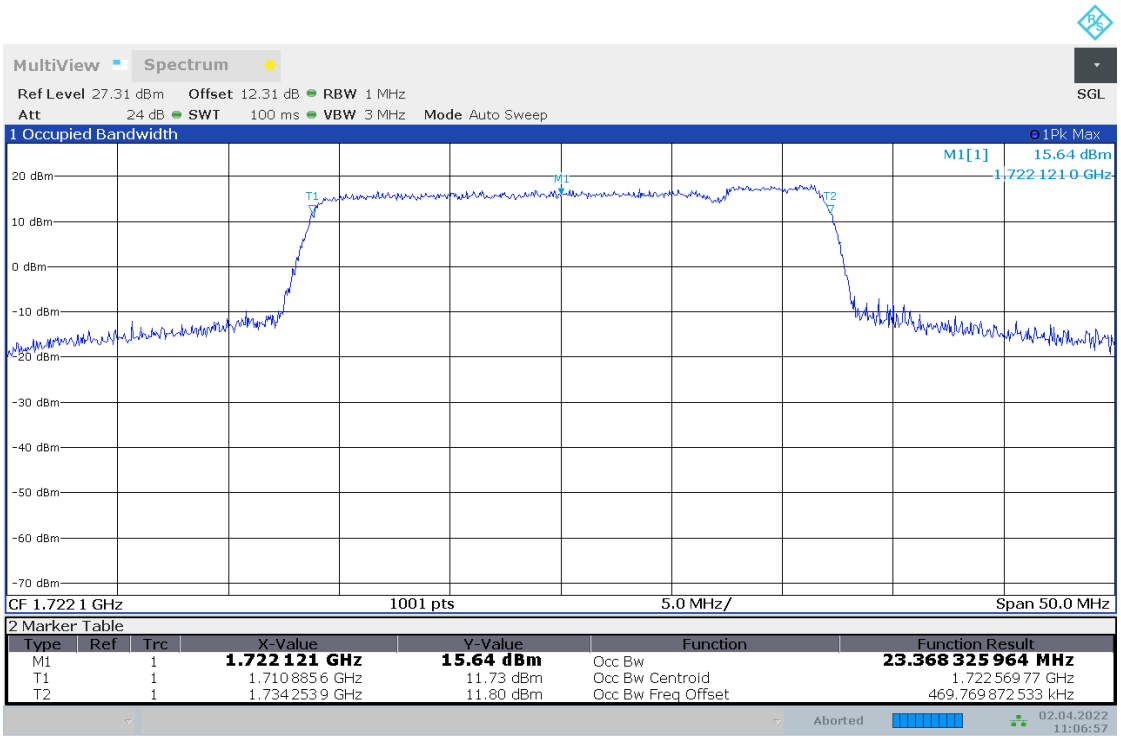
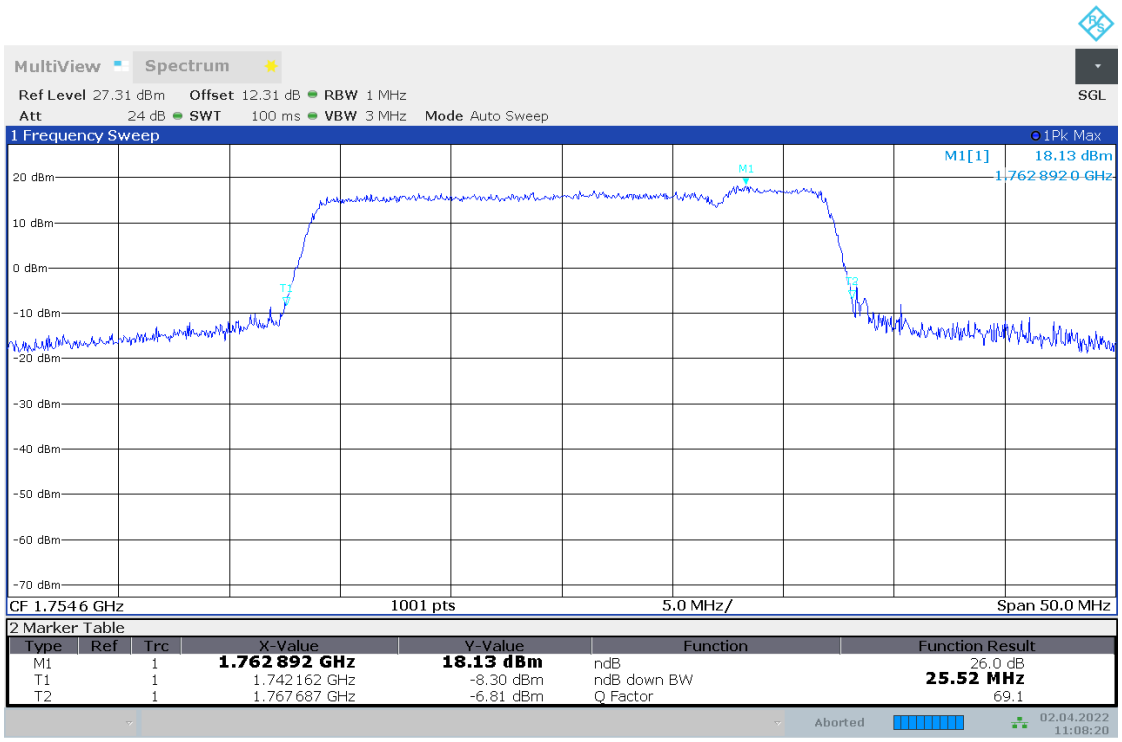


11:06:52 02.04.2022

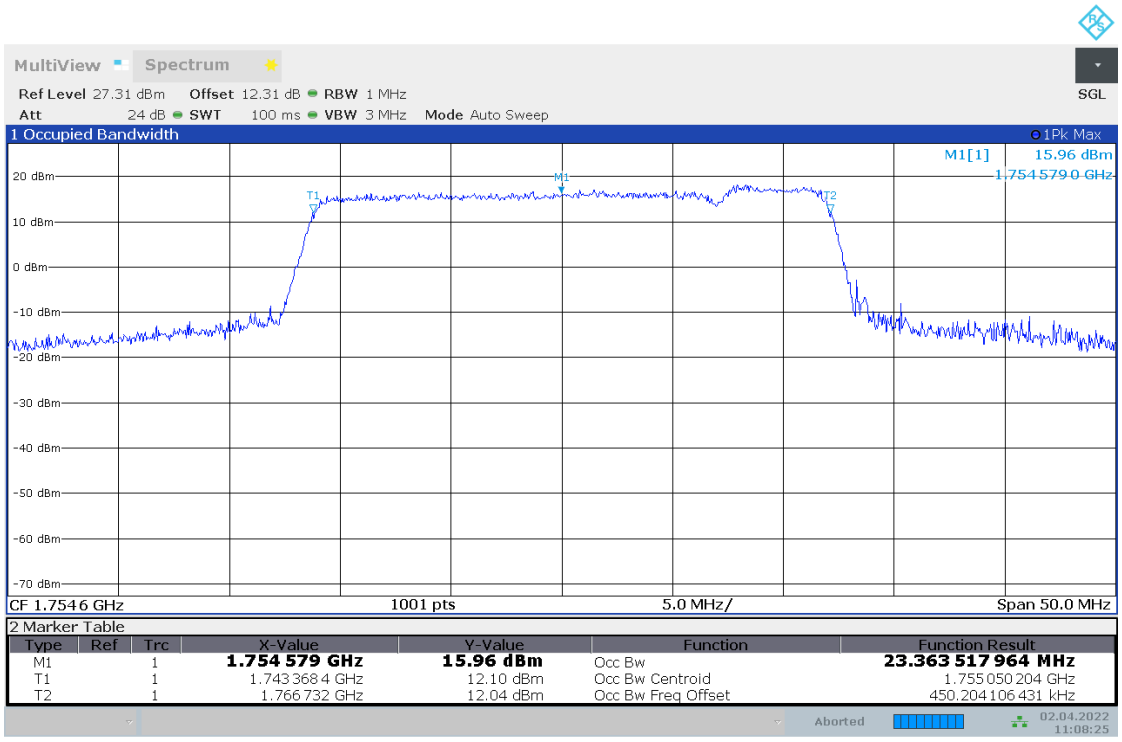


11:06:57 02.04.2022

2.2.14 TM3_MCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0

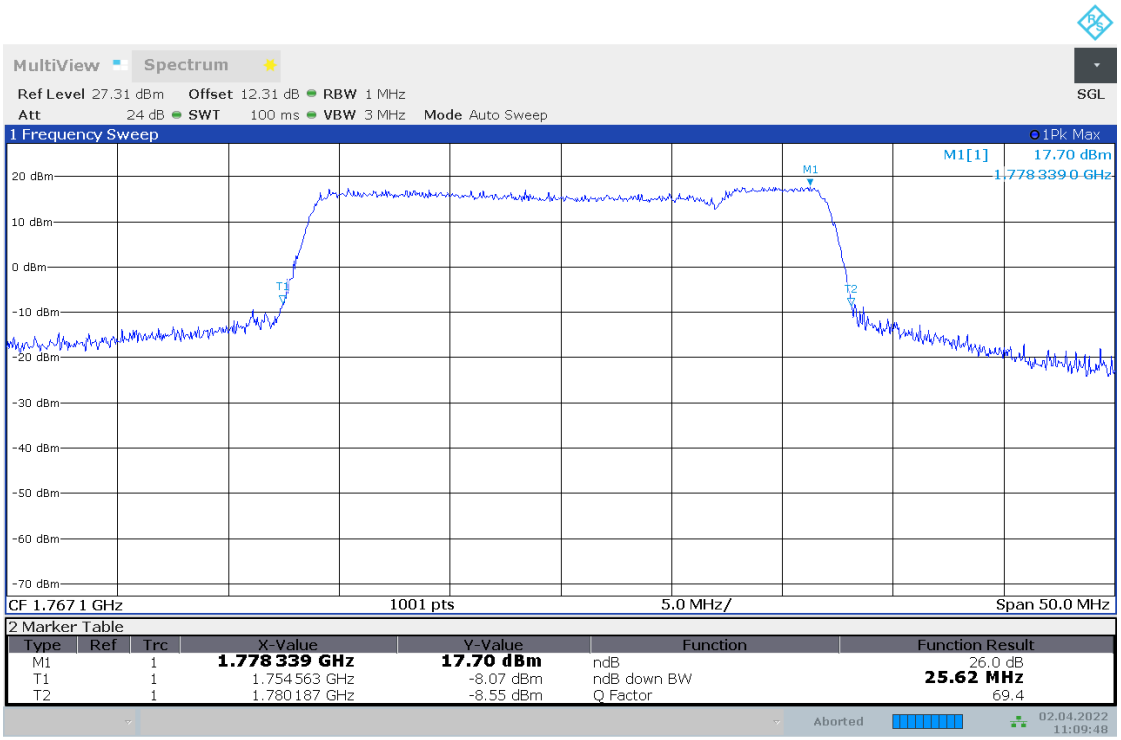


11:08:20 02.04.2022

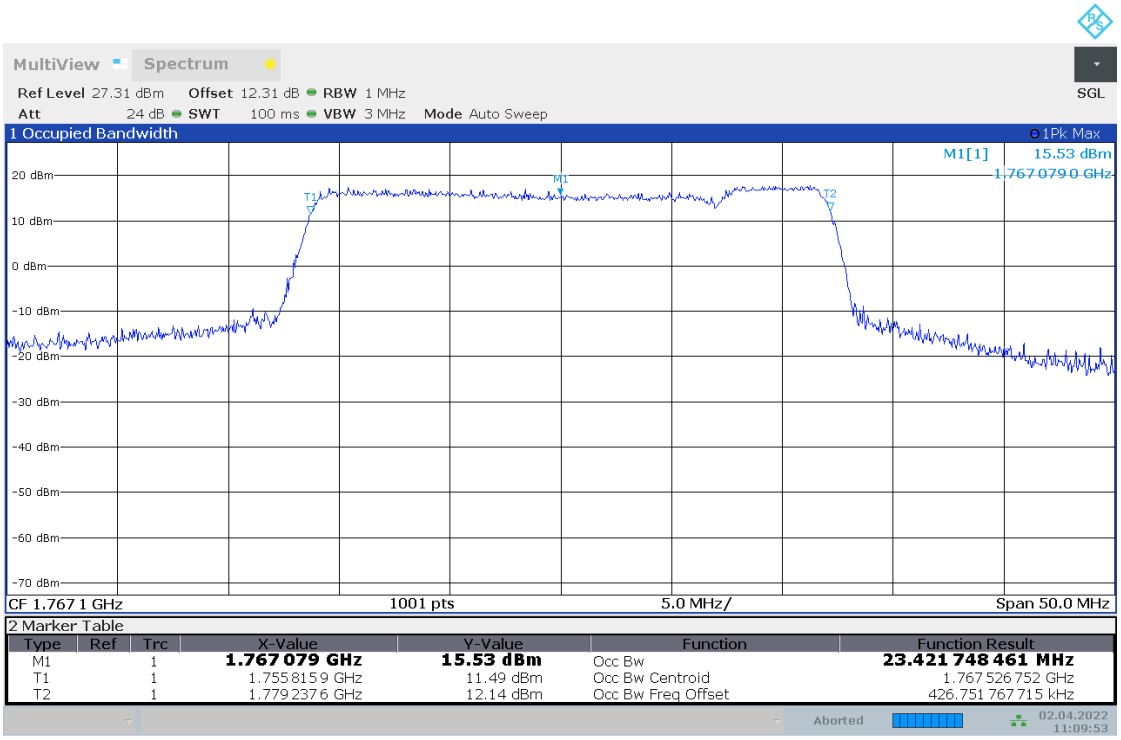


11:08:25 02.04.2022

2.2.15 TM3_HCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0

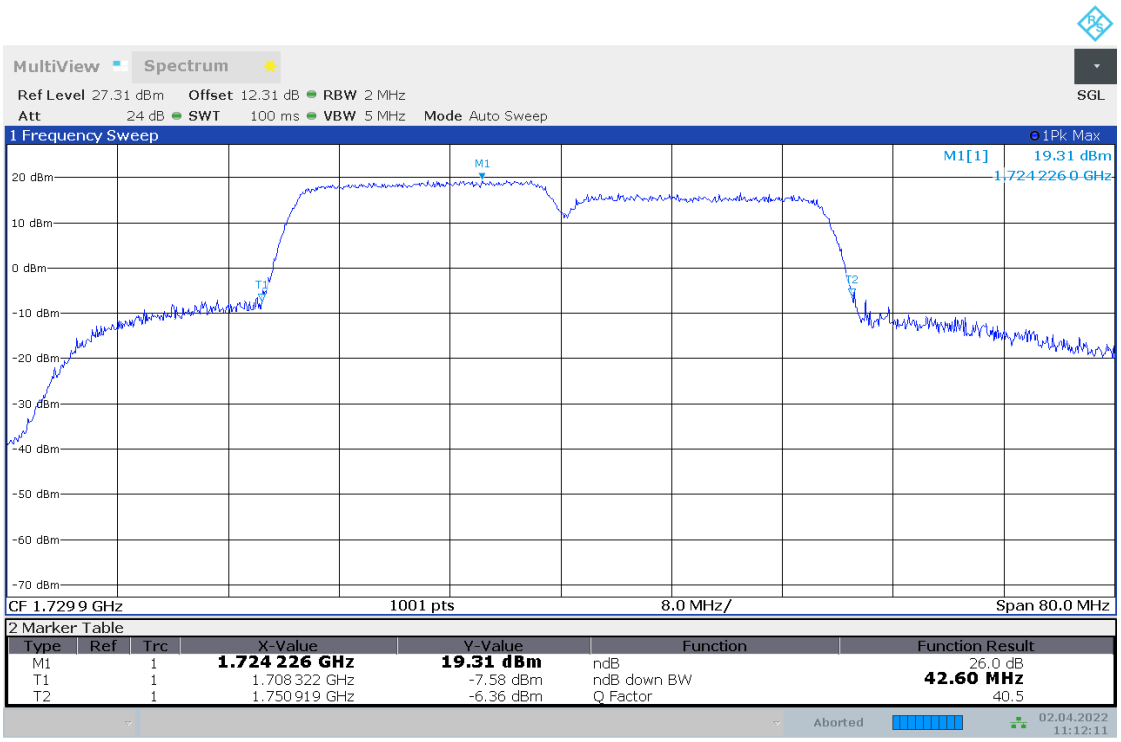


11:09:48 02.04.2022

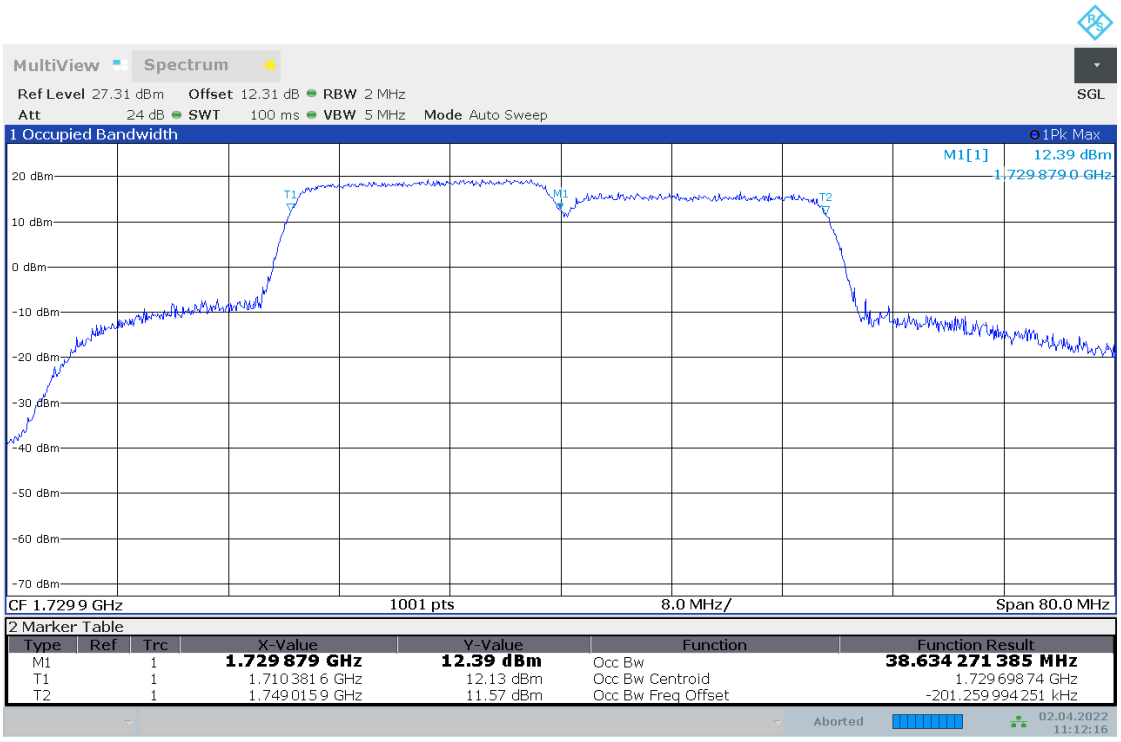


11:09:53 02.04.2022

2.2.16 TM3_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0

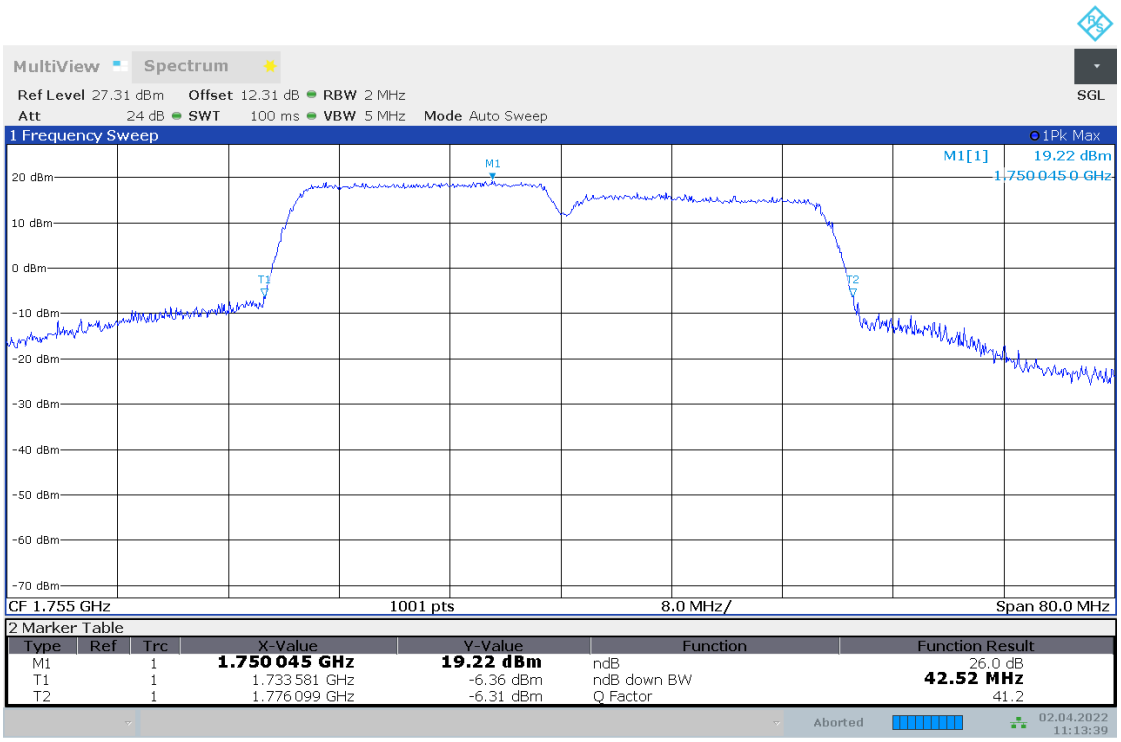


11:12:11 02.04.2022

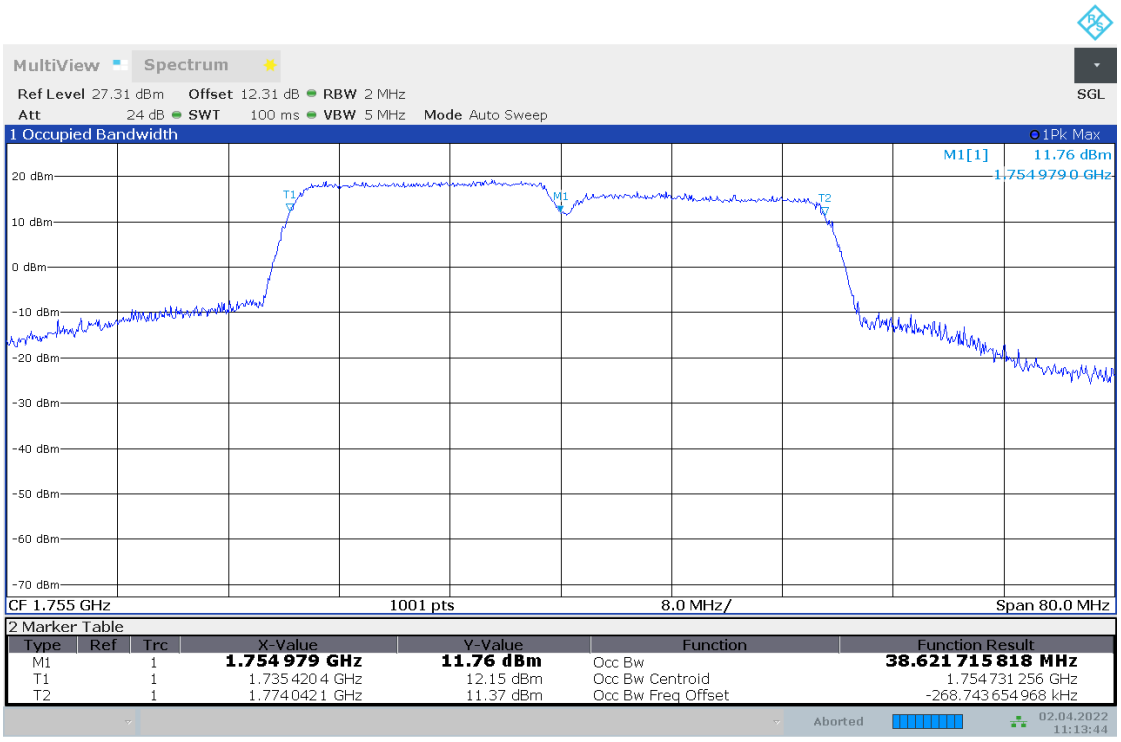


11:12:16 02.04.2022

2.2.17 TM3_MCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0

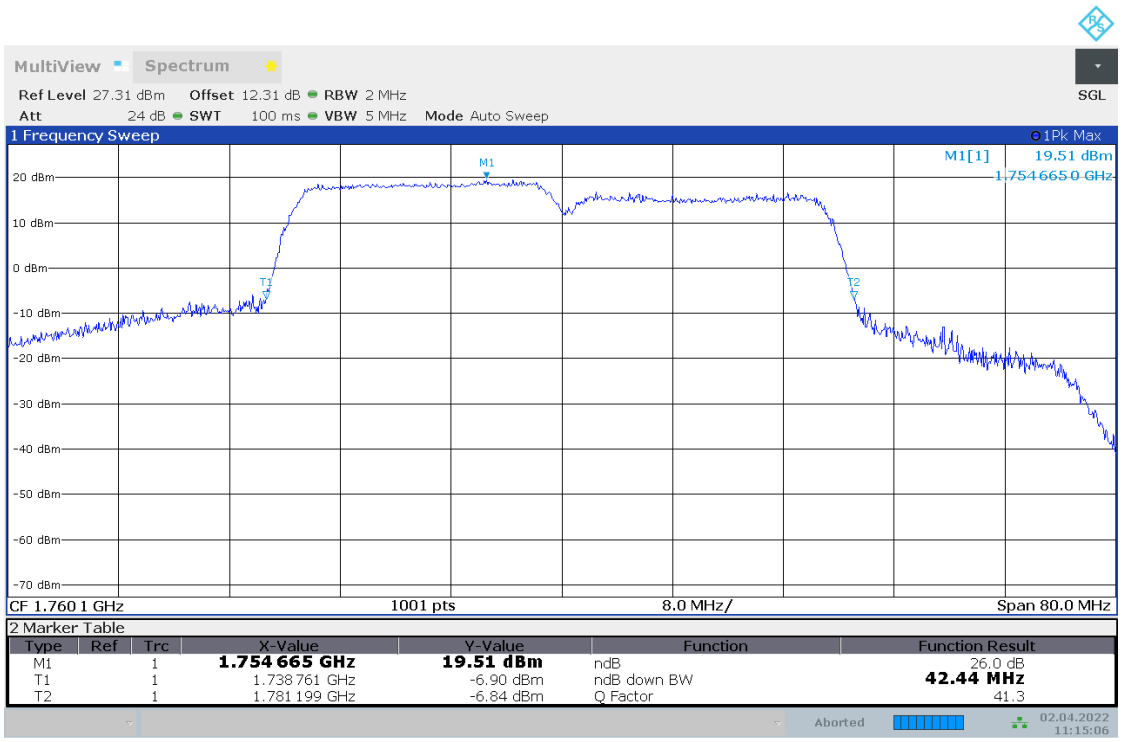


11:13:39 02.04.2022

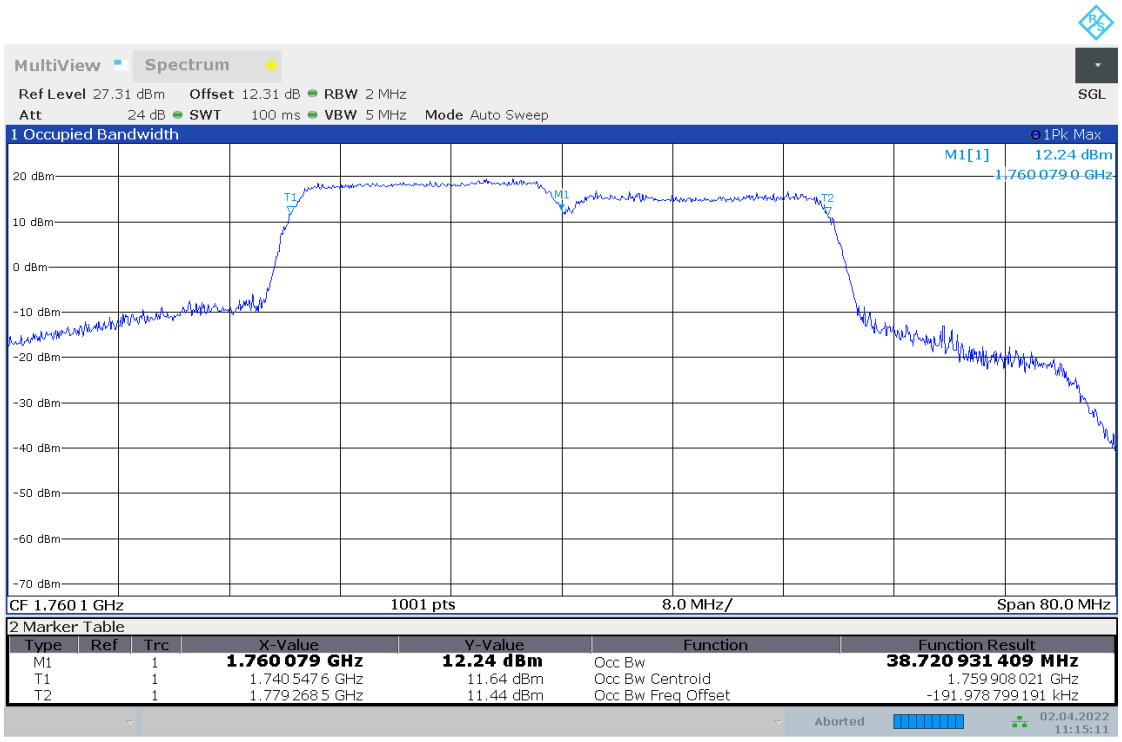


11:13:44 02.04.2022

2.2.18 TM3_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



11:15:06 02.04.2022



11:15:11 02.04.2022

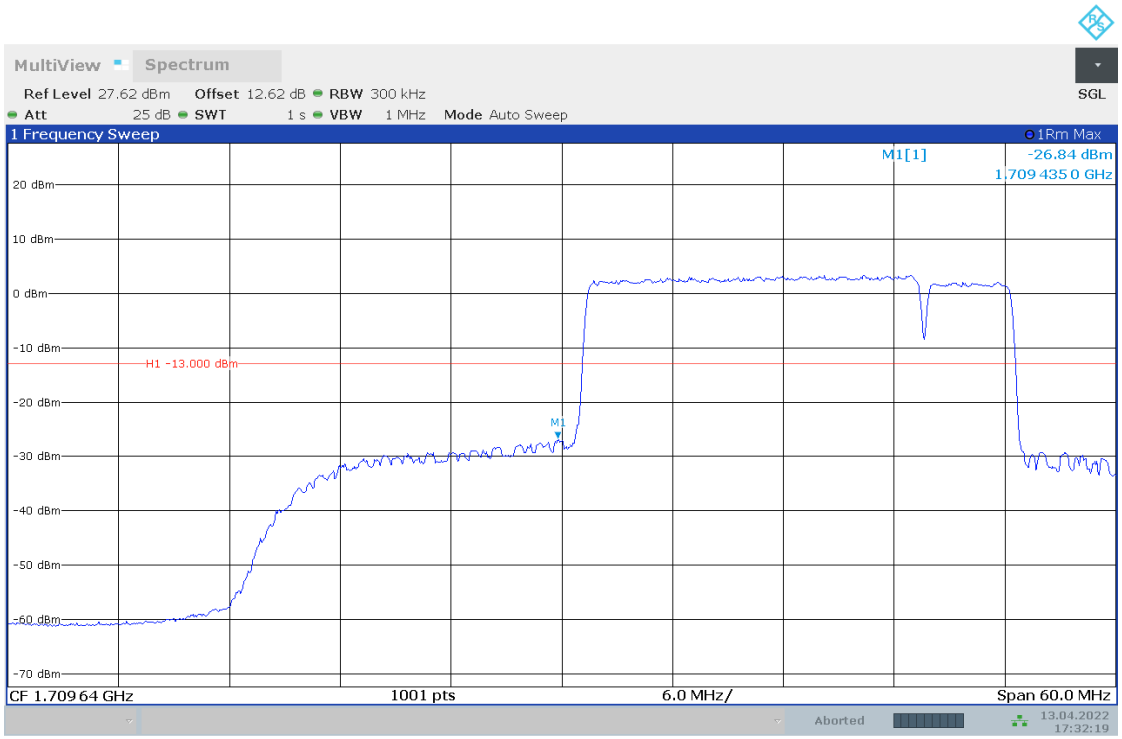
3. APPENDIX C - BAND EDGES COMPLIANCE

3.1 TEST RESULT

Band Edges Compliance						
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Verdict
TM1	20+5	LCH	RB100#0	RB25#0	QPSK	PASS
			RB1#0	RB1#24	QPSK	PASS
		HCH	RB100#0	RB25#0	QPSK	PASS
			RB1#0	RB1#24	QPSK	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	PASS
			RB1#0	RB1#99	QPSK	PASS
		HCH	RB100#0	RB100#0	QPSK	PASS
			RB1#0	RB1#99	QPSK	PASS
TM2	20+5	LCH	RB100#0	RB25#0	16QAM	PASS
			RB1#0	RB1#24	16QAM	PASS
		HCH	RB100#0	RB25#0	16QAM	PASS
			RB1#0	RB1#24	16QAM	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	PASS
			RB1#0	RB1#99	16QAM	PASS
		HCH	RB100#0	RB100#0	16QAM	PASS
			RB1#0	RB1#99	16QAM	PASS
TM3	20+5	LCH	RB100#0	RB25#0	64QAM	PASS
			RB1#0	RB1#24	64QAM	PASS
		HCH	RB100#0	RB25#0	64QAM	PASS
			RB1#0	RB1#24	64QAM	PASS
	20+20	LCH	RB100#0	RB100#0	64QAM	PASS
			RB1#0	RB1#99	64QAM	PASS
		HCH	RB100#0	RB100#0	64QAM	PASS
			RB1#0	RB1#99	64QAM	PASS

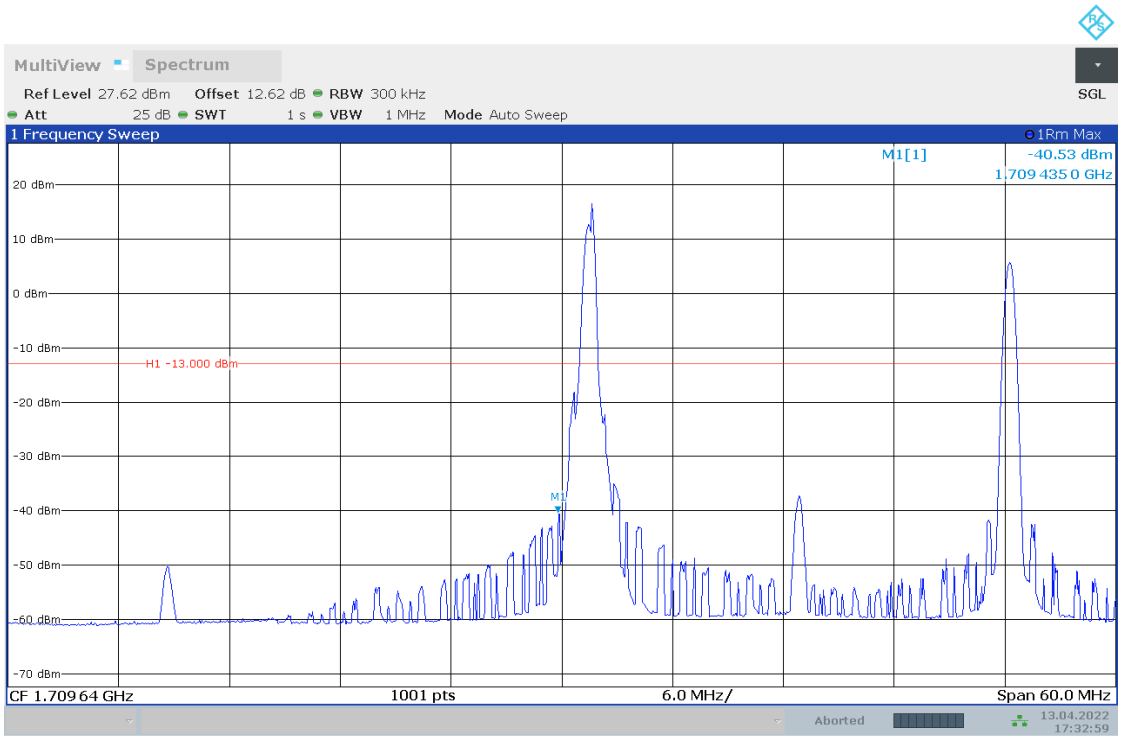
3.2 TEST PLOTS

3.2.1 TM1_LCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



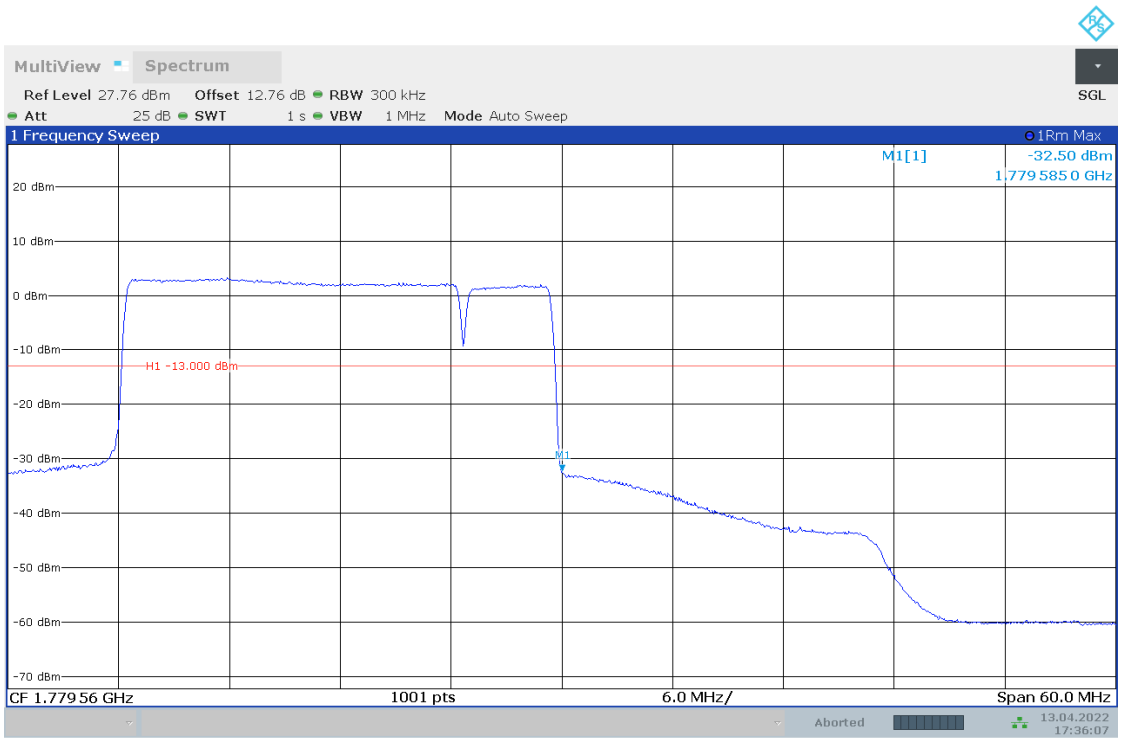
17:32:20 13.04.2022

3.2.2 TM1_LCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



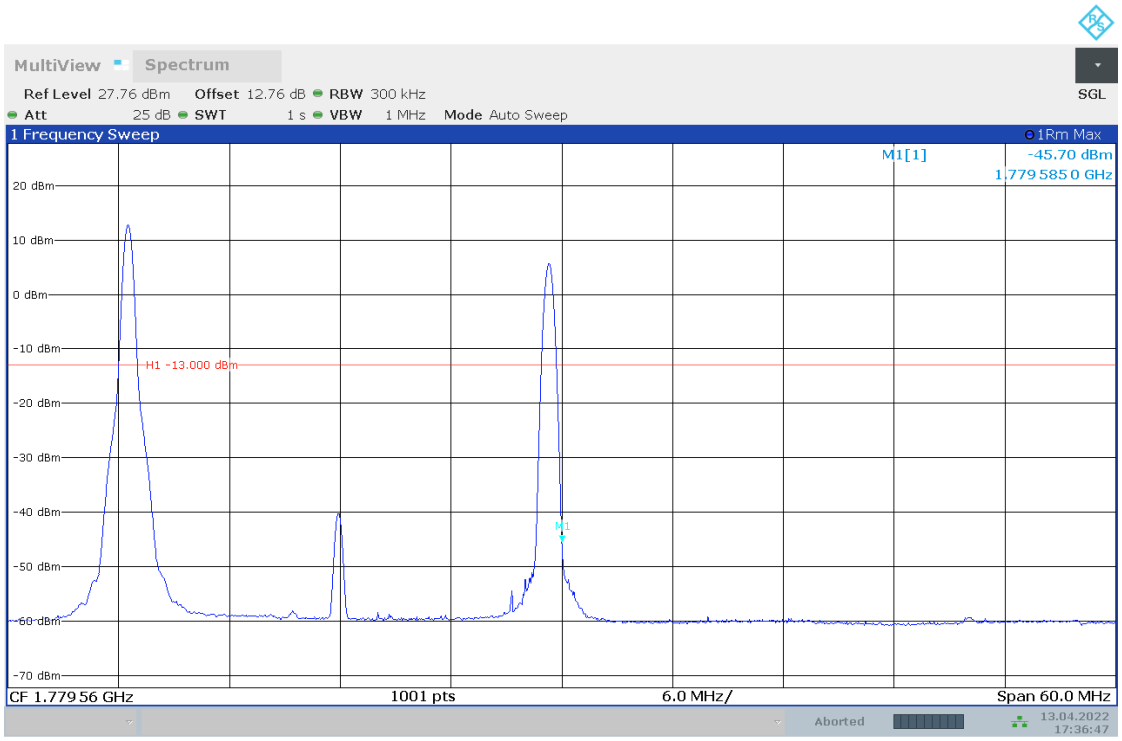
17:33:00 13.04.2022

3.2.3 TM1_HCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



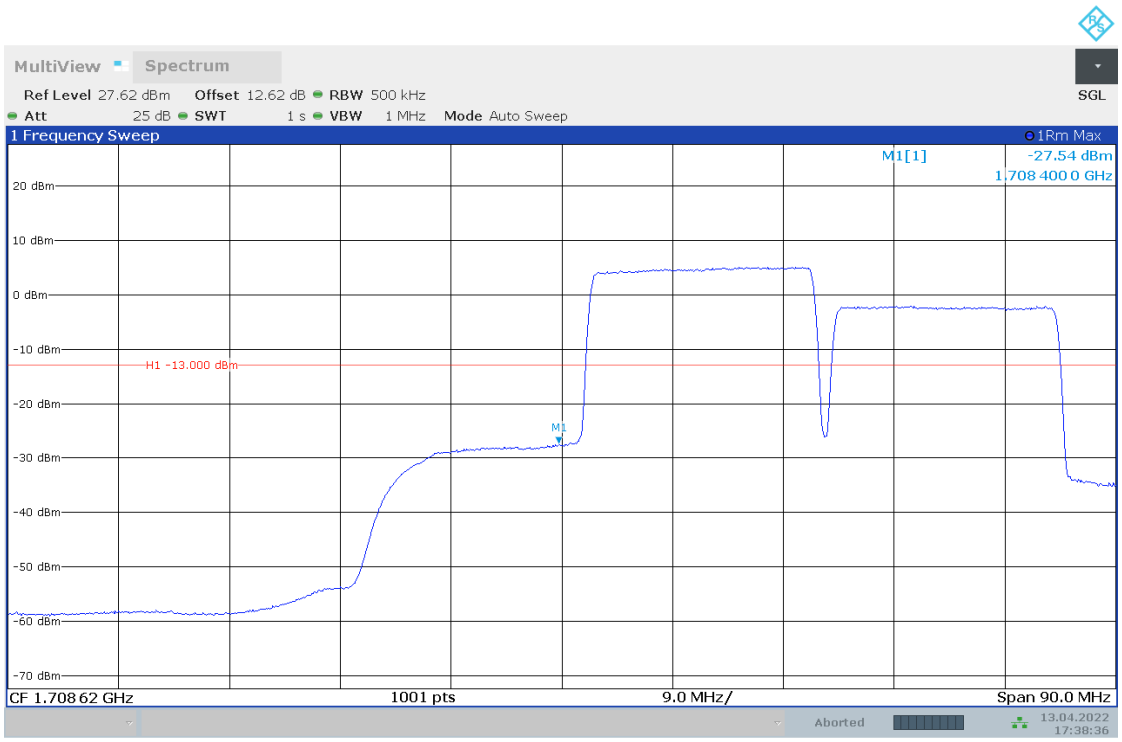
17:36:07 13.04.2022

3.2.4 TM1_HCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



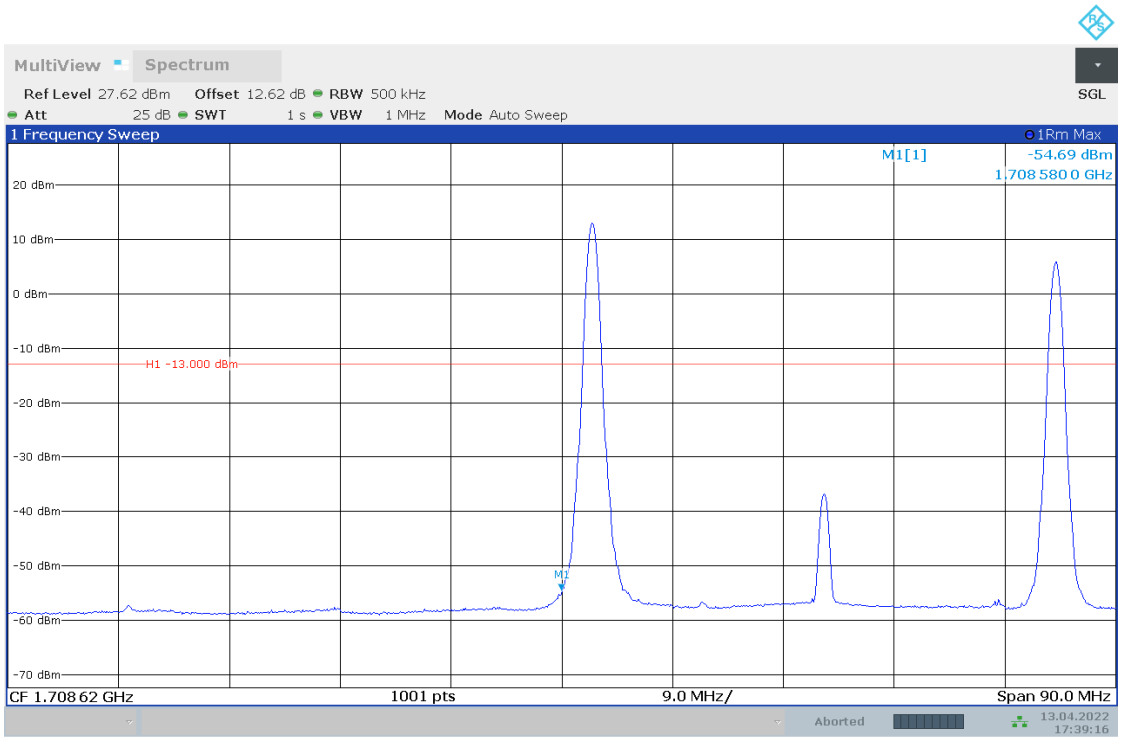
17:36:47 13.04.2022

3.2.5 TM1_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



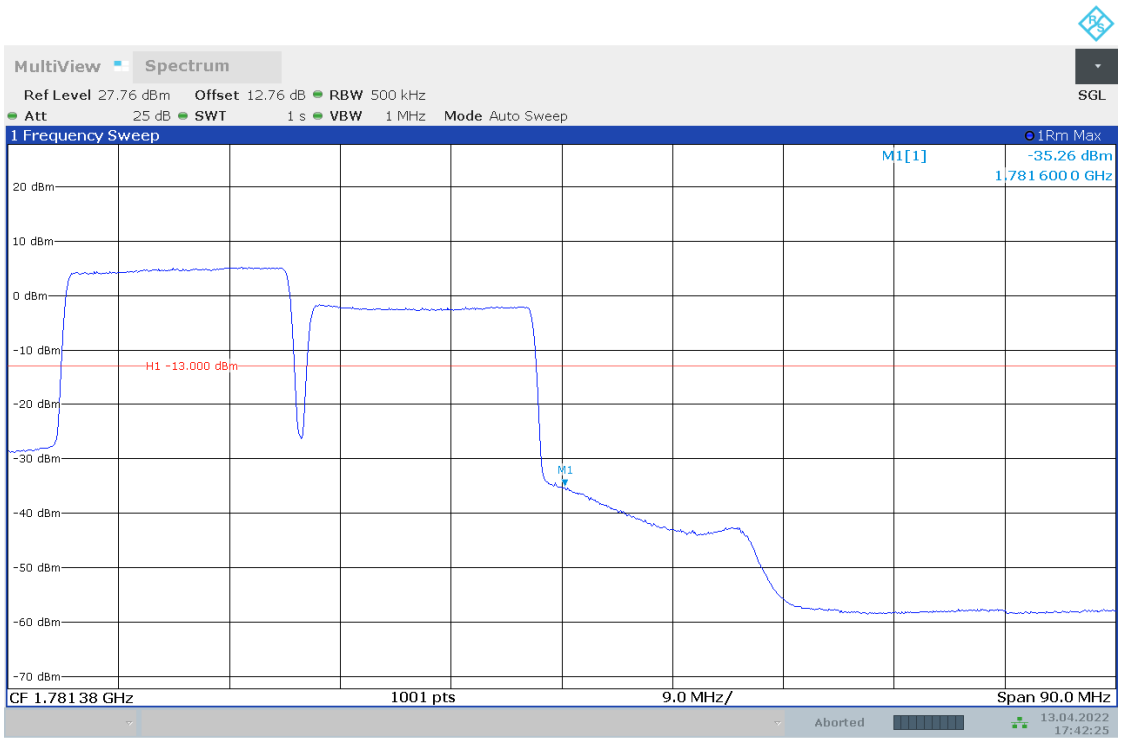
17:38:36 13.04.2022

3.2.6 TM1_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



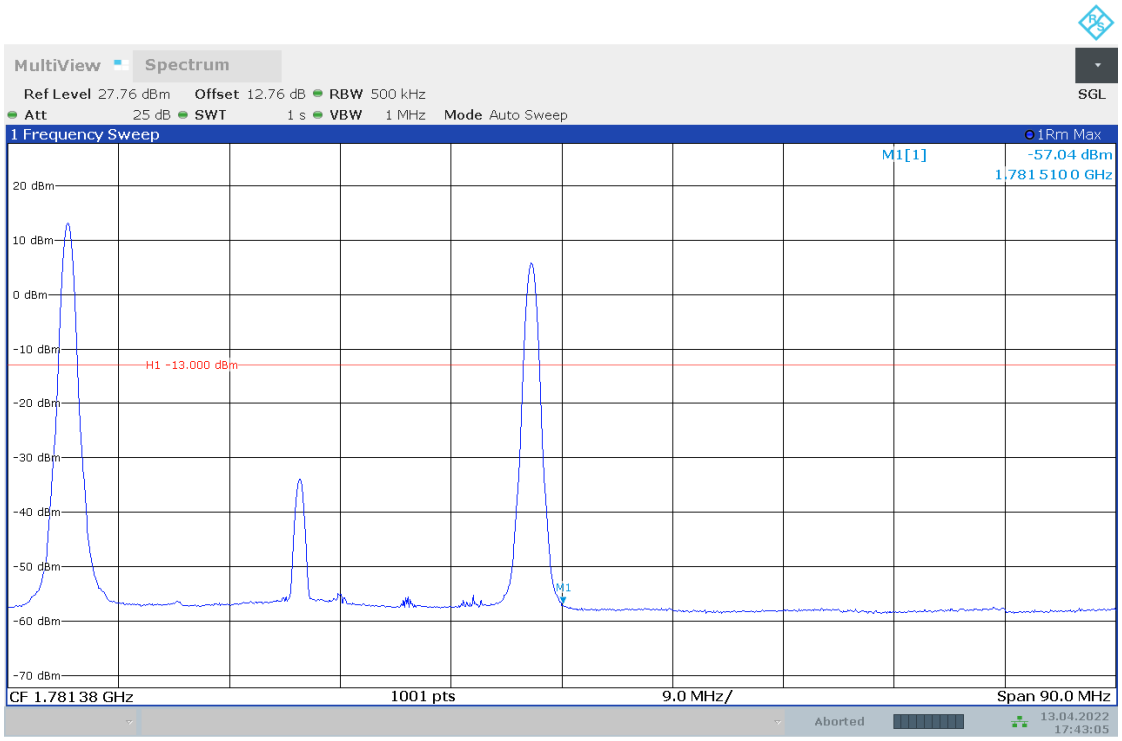
17:39:17 13.04.2022

3.2.7 TM1_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



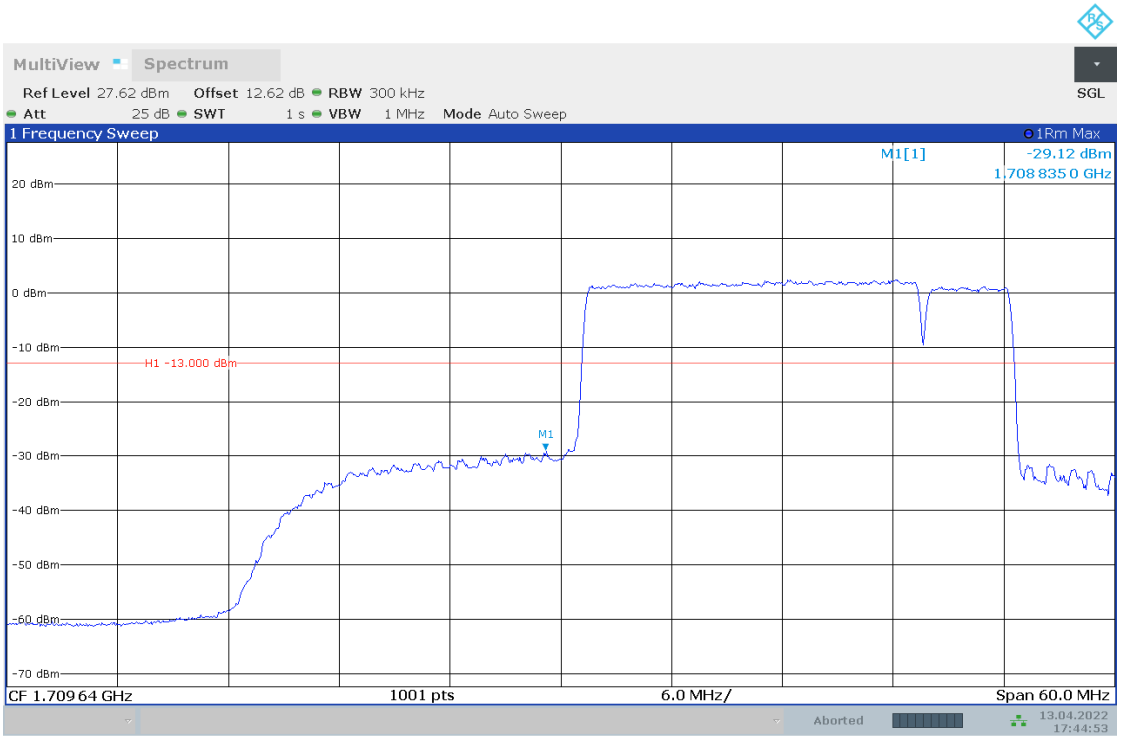
17:42:25 13.04.2022

3.2.8 TM1_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



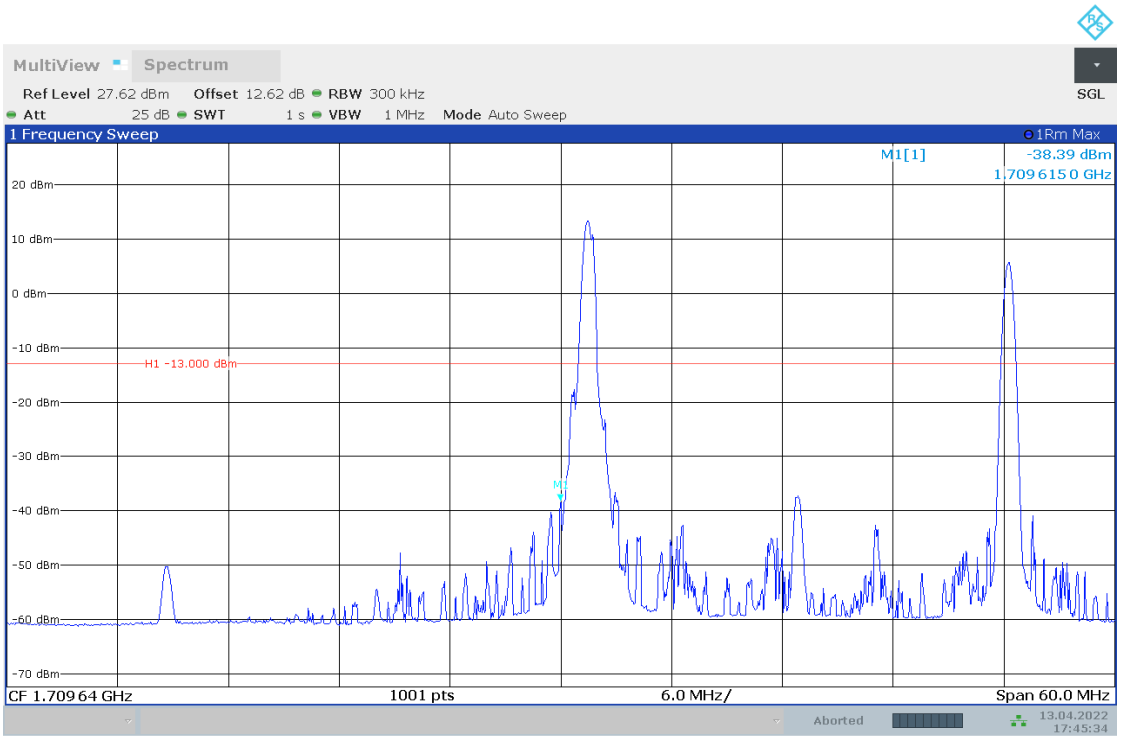
17:43:05 13.04.2022

3.2.9 TM2_LCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



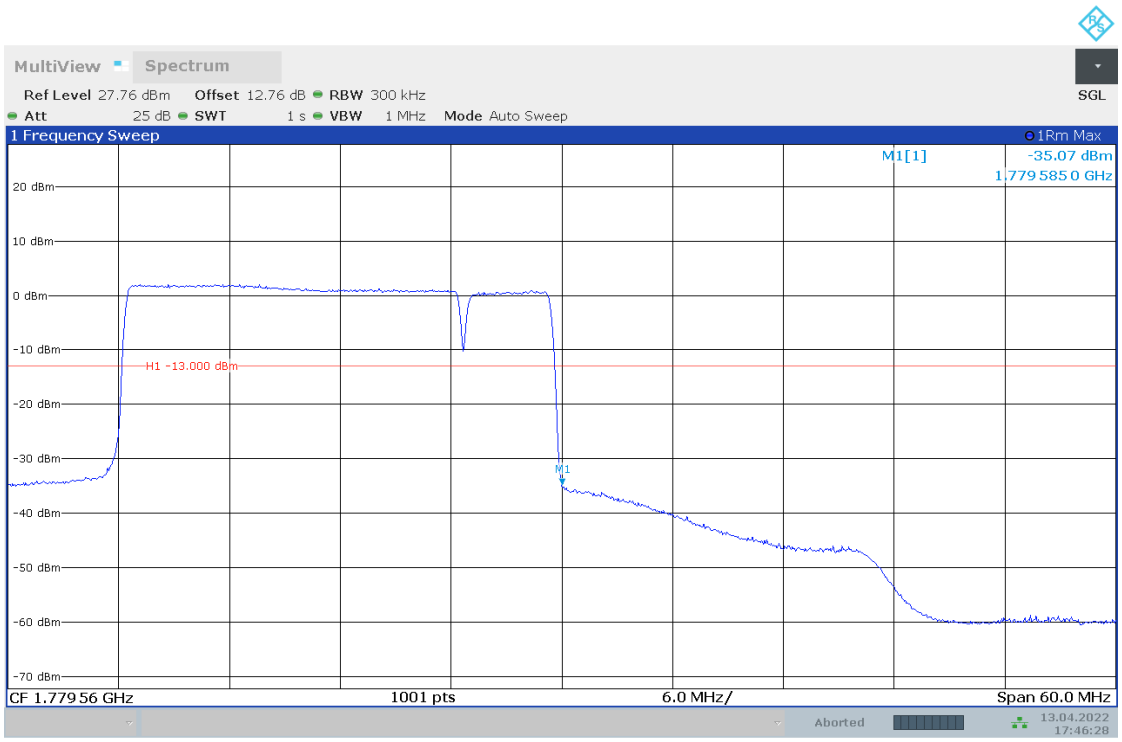
17:44:54 13.04.2022

3.2.10 TM2_LCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



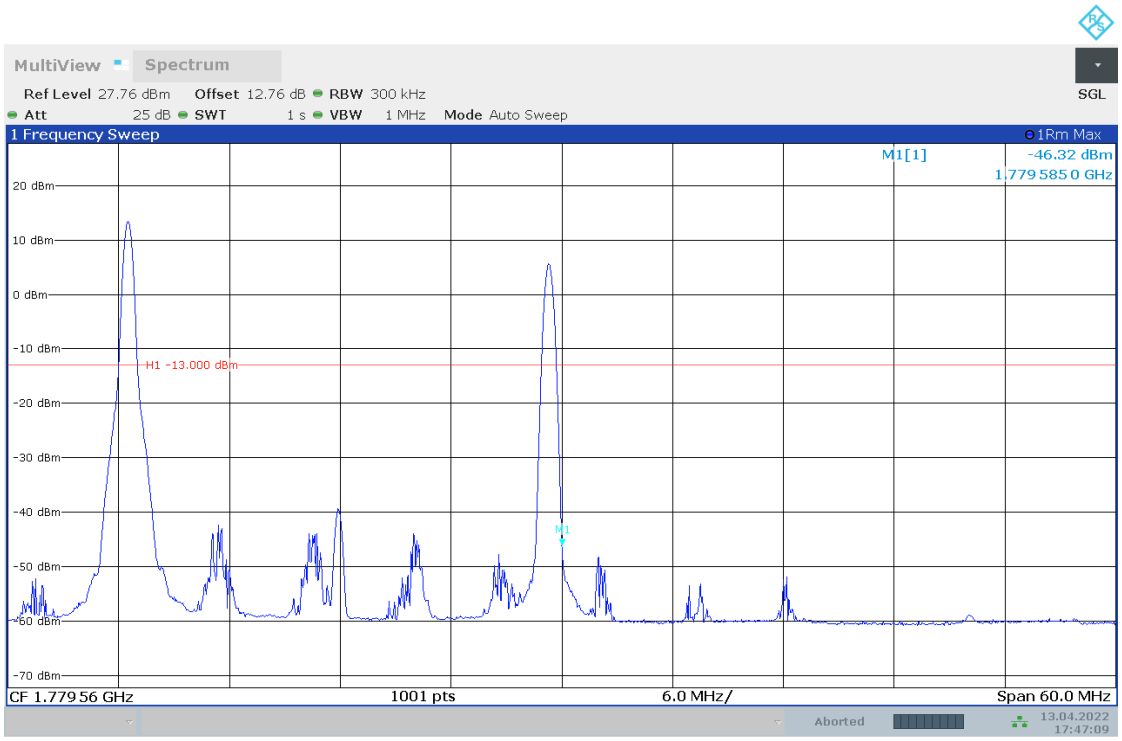
17:45:34 13.04.2022

3.2.11 TM2_HCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



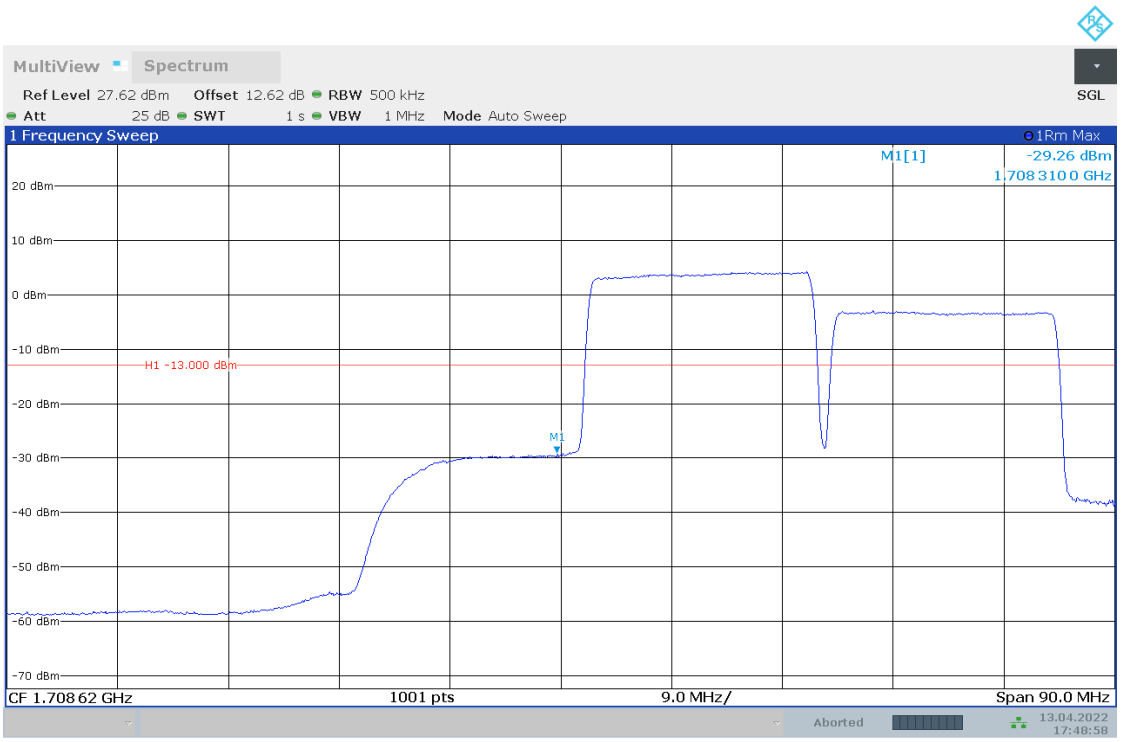
17:46:28 13.04.2022

3.2.12 TM2_HCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



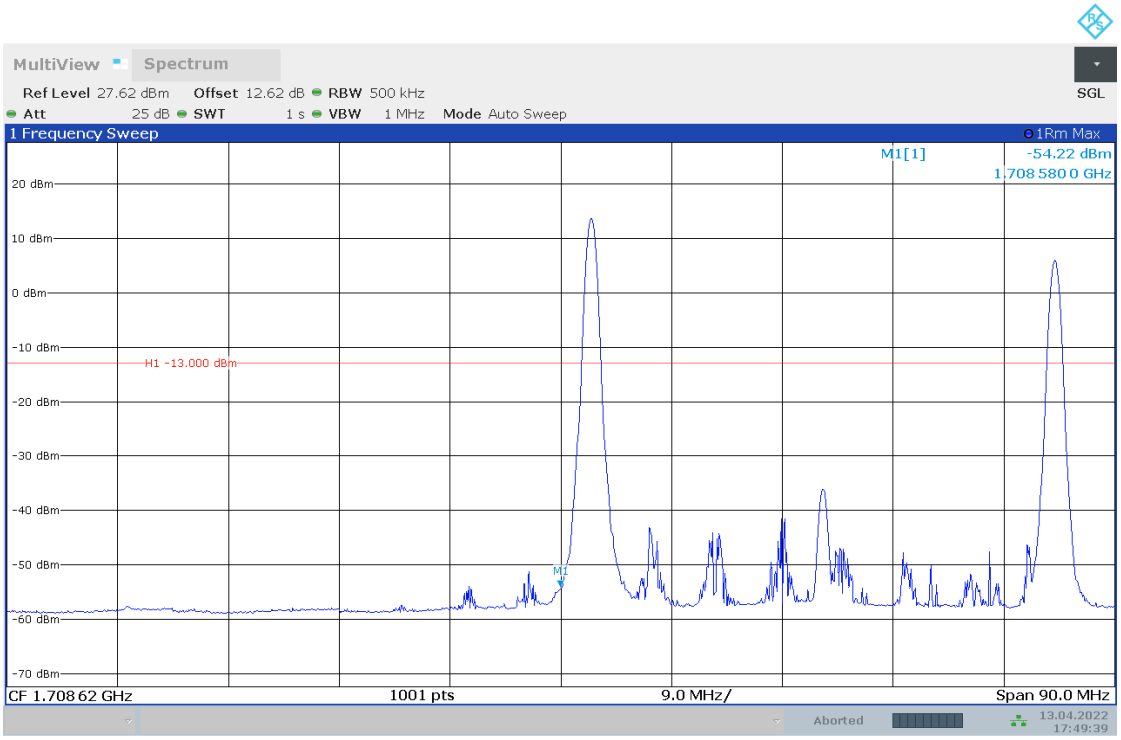
17:47:09 13.04.2022

3.2.13 TM2_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



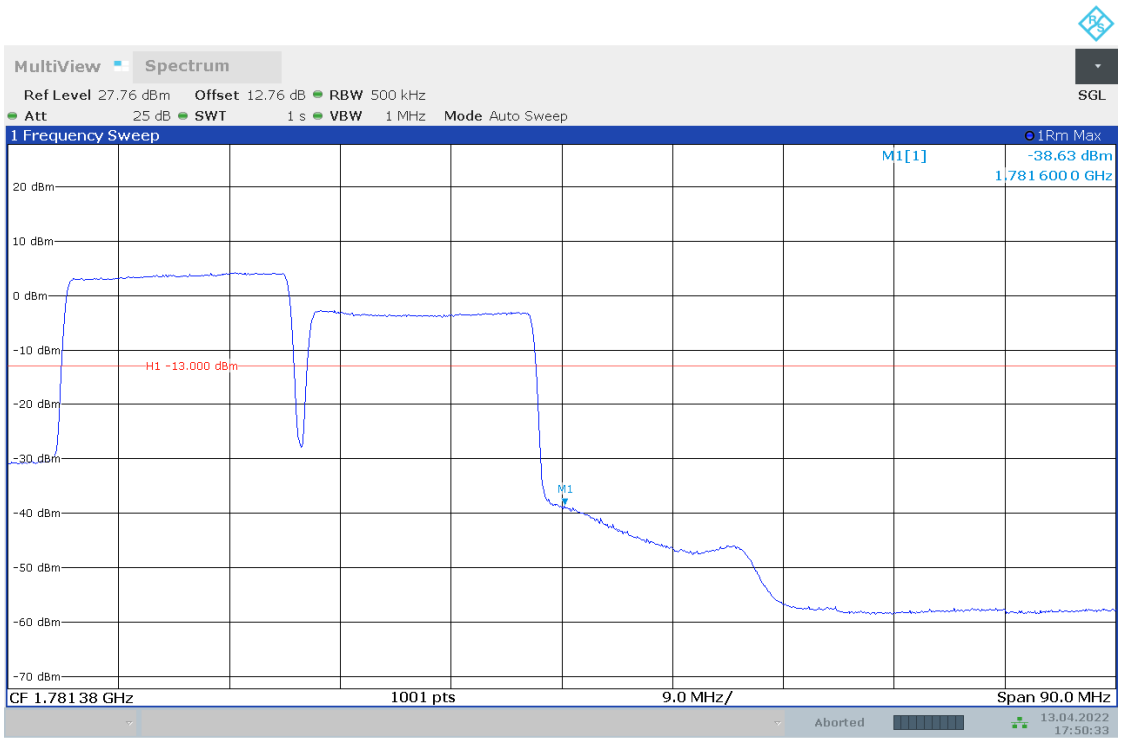
17:48:59 13.04.2022

3.2.14 TM2_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



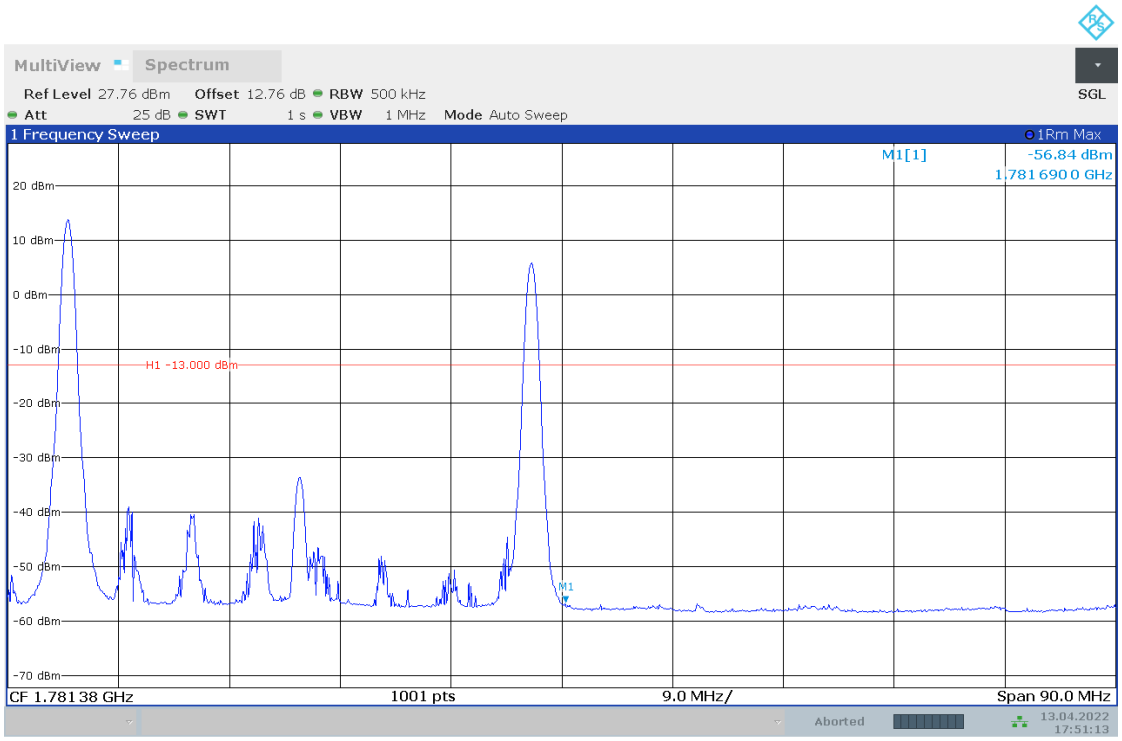
17:49:39 13.04.2022

3.2.15 TM2_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



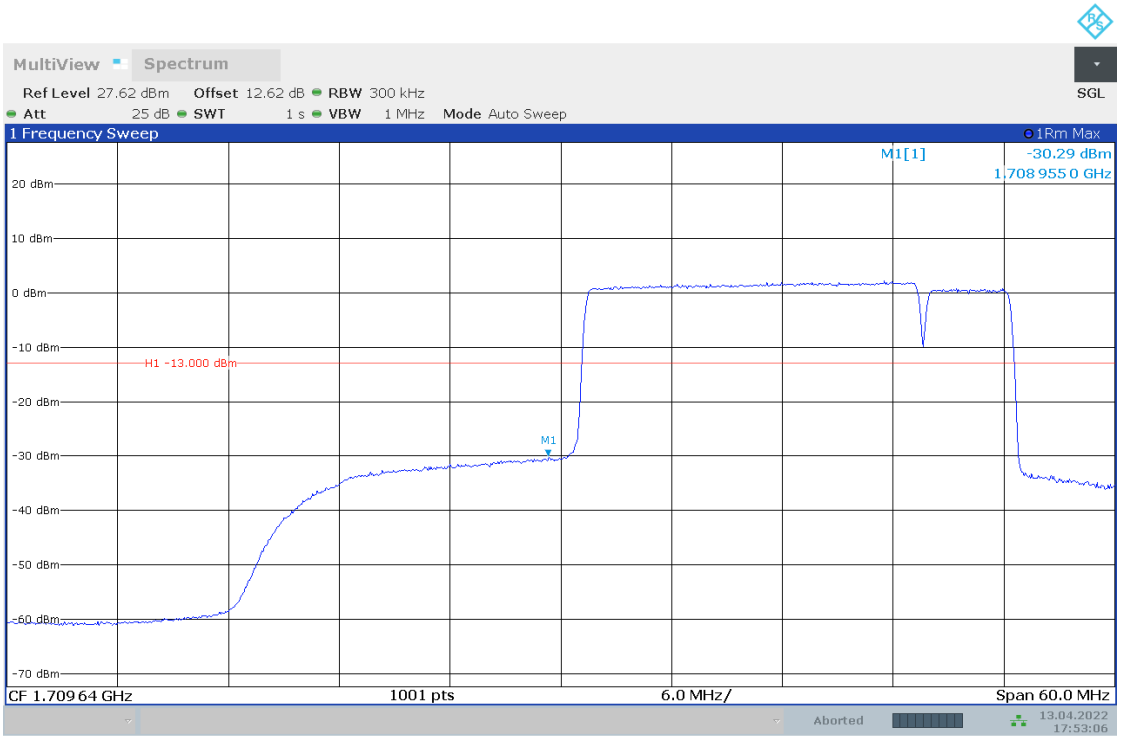
17:50:33 13.04.2022

3.2.16 TM2_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



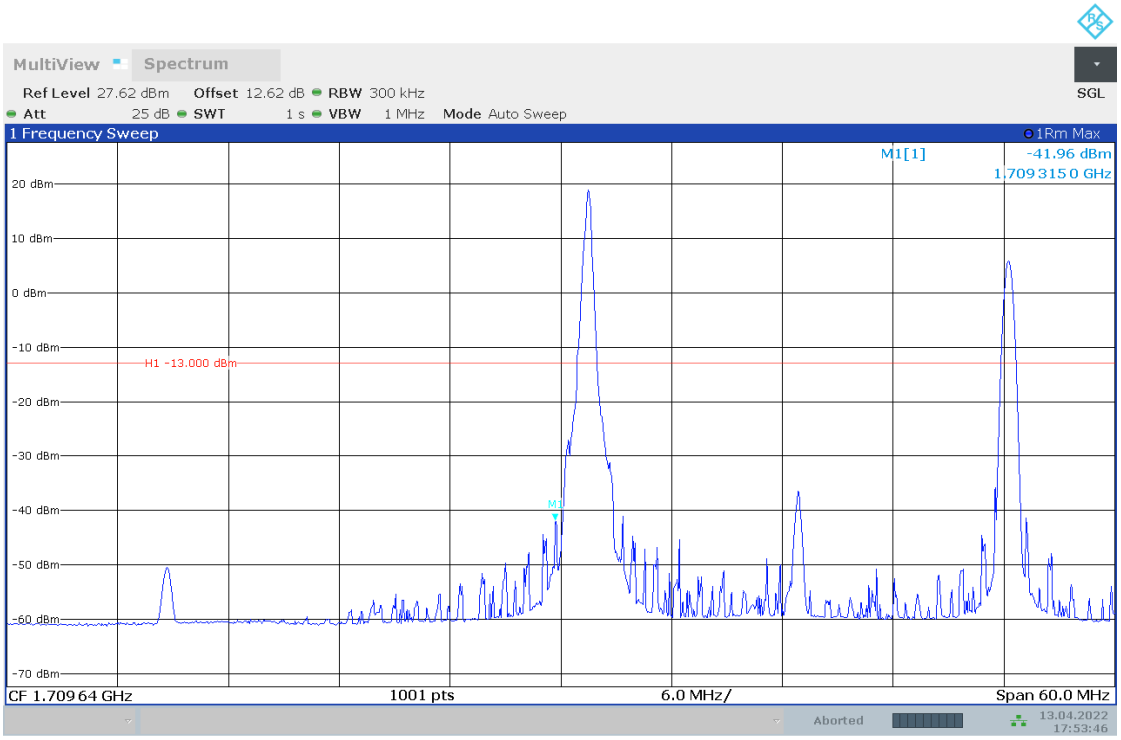
17:51:14 13.04.2022

3.2.17 TM3_LCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



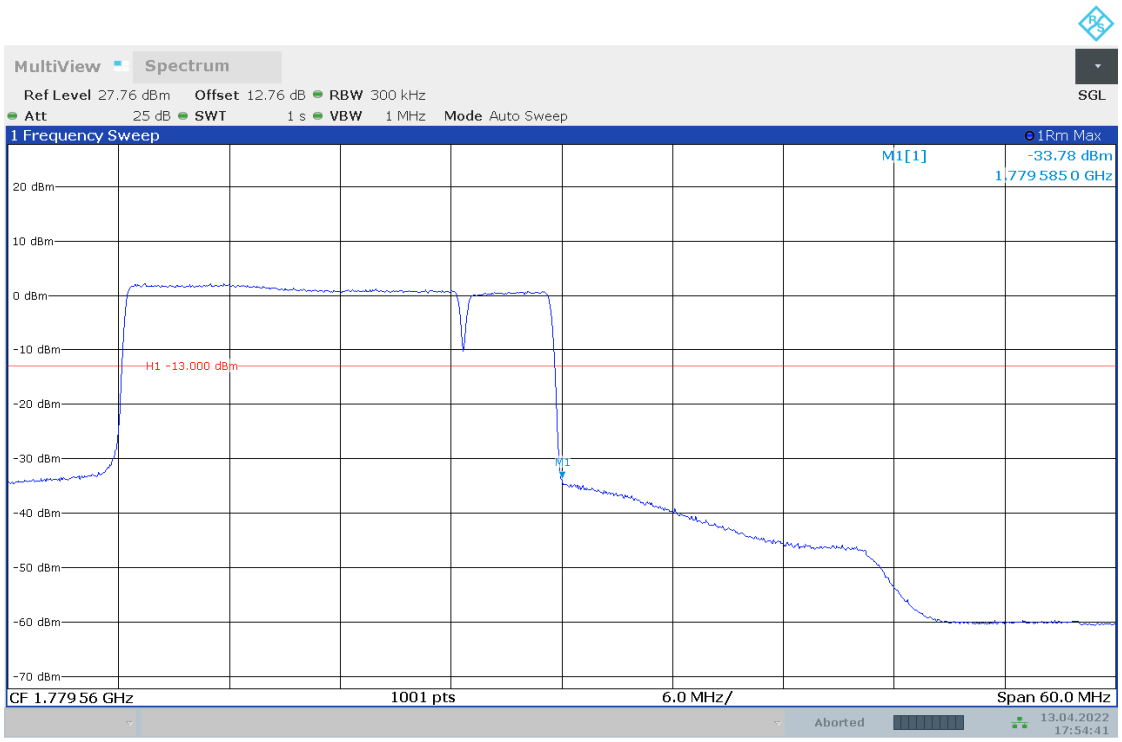
17:53:07 13.04.2022

3.2.18 TM3_LCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



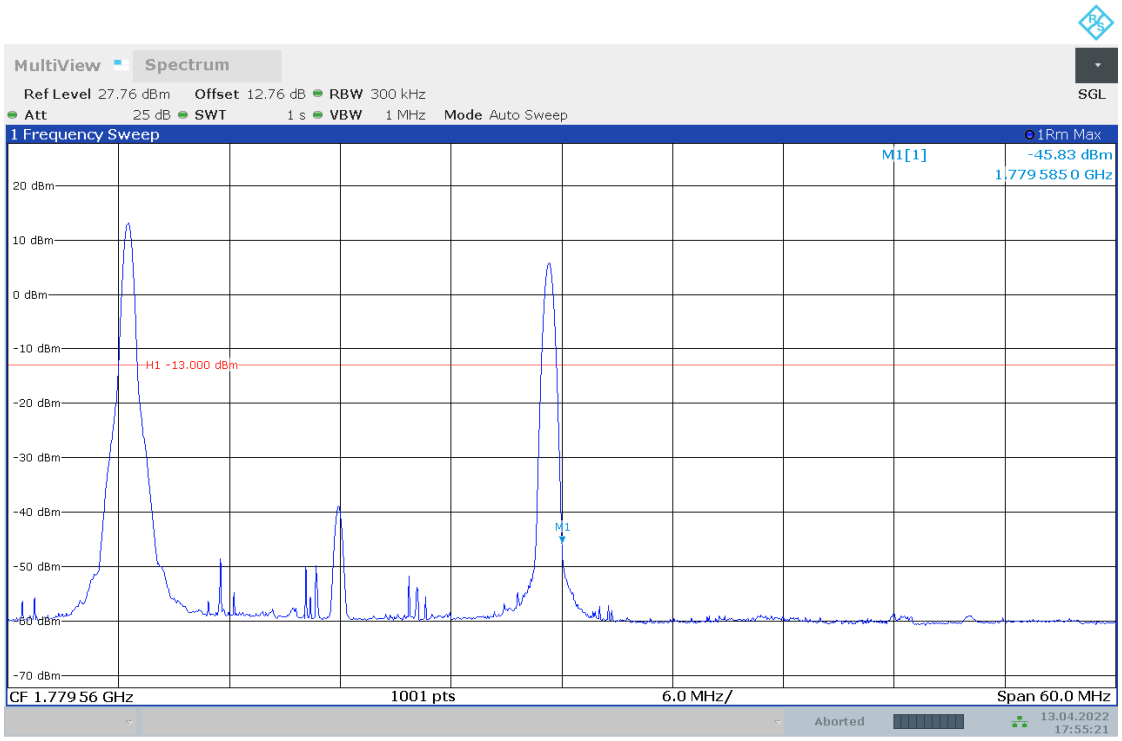
17:53:47 13.04.2022

3.2.19 TM3_HCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



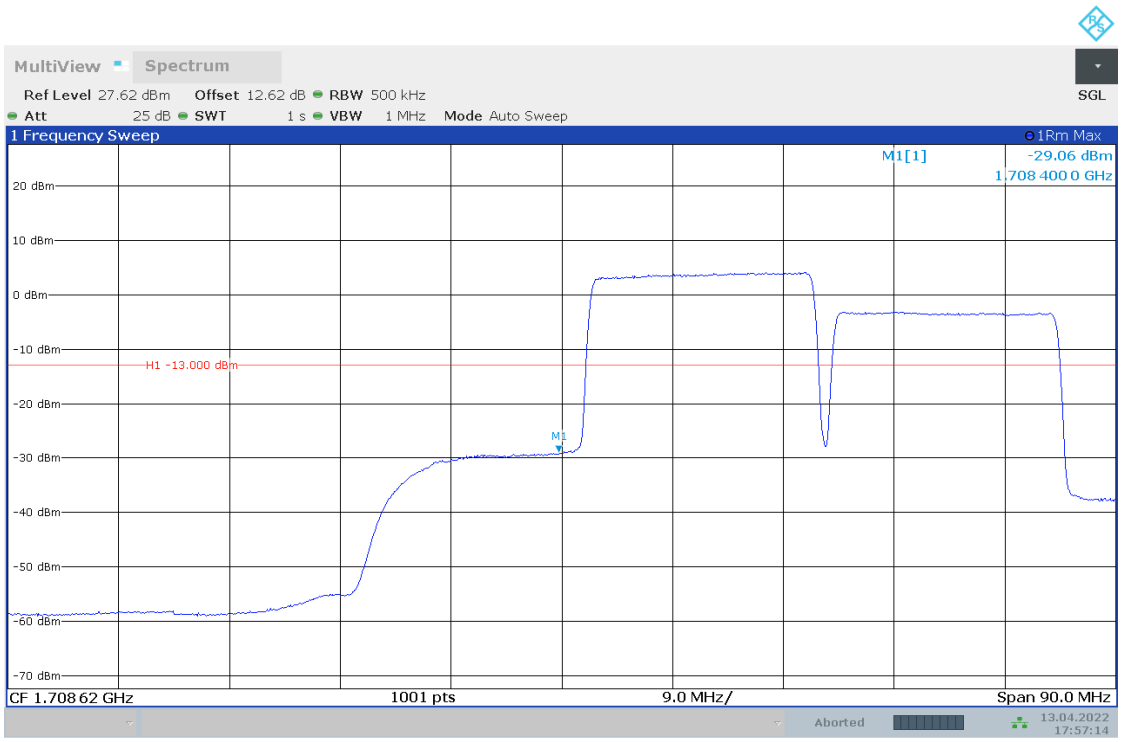
17:54:41 13.04.2022

3.2.20 TM3_HCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



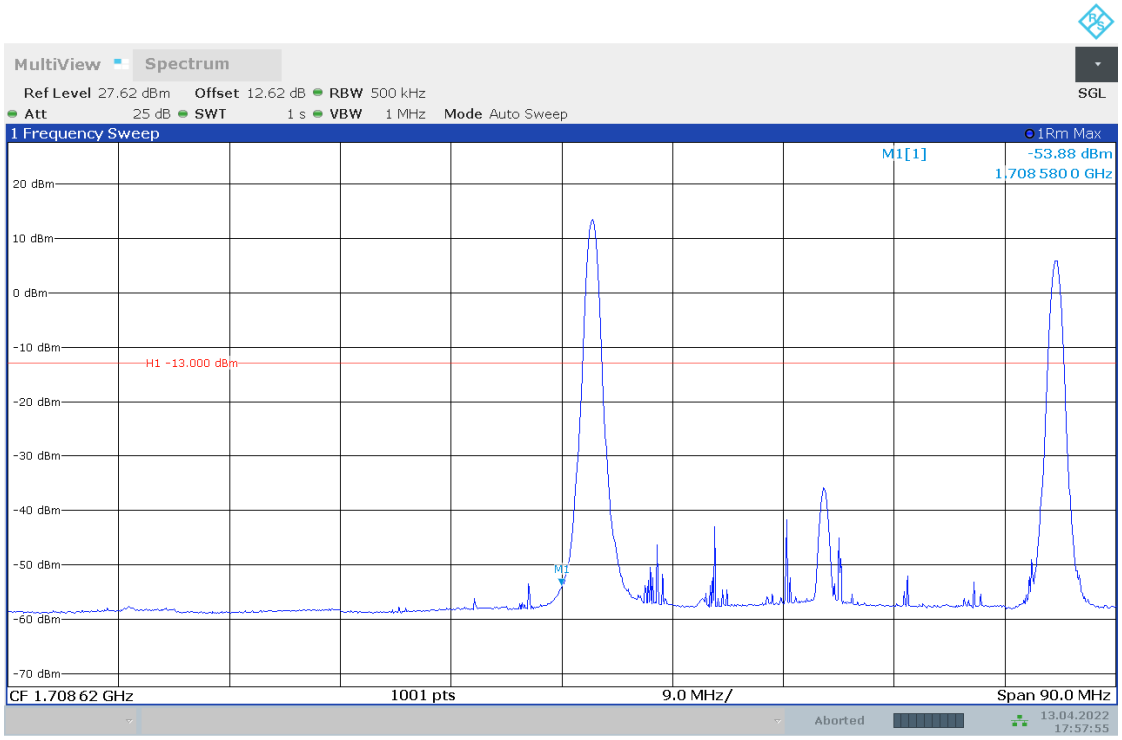
17:55:22 13.04.2022

3.2.21 TM3_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



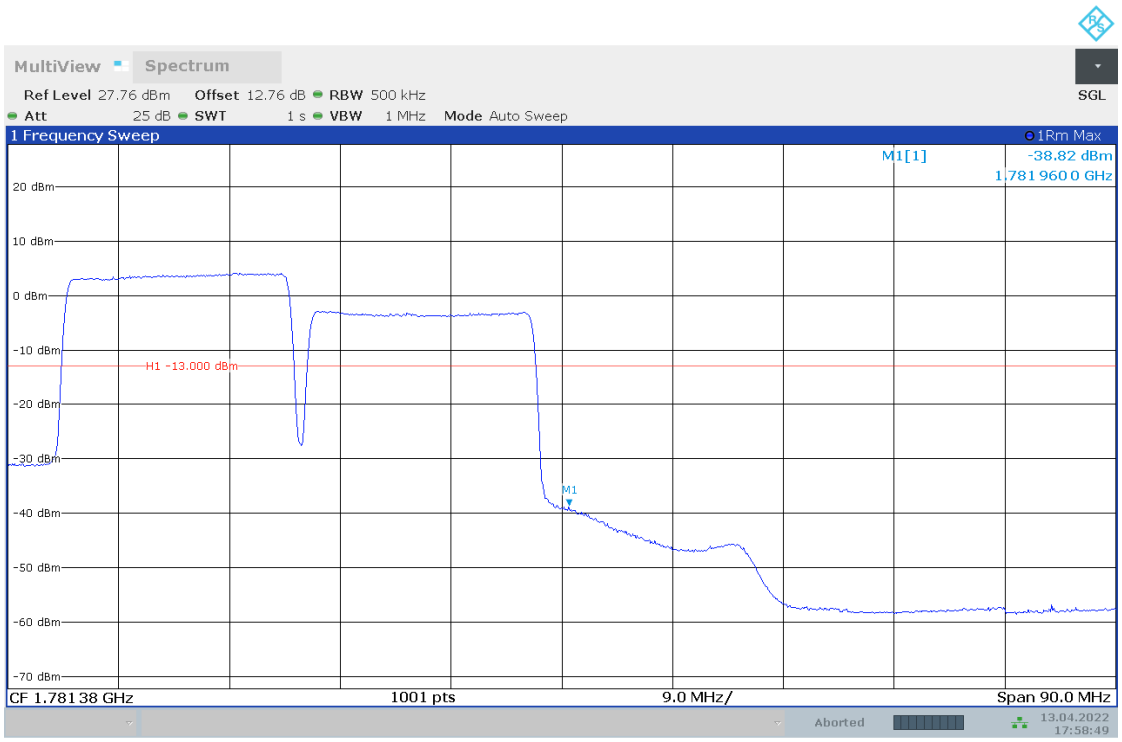
17:57:15 13.04.2022

3.2.22 TM3_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



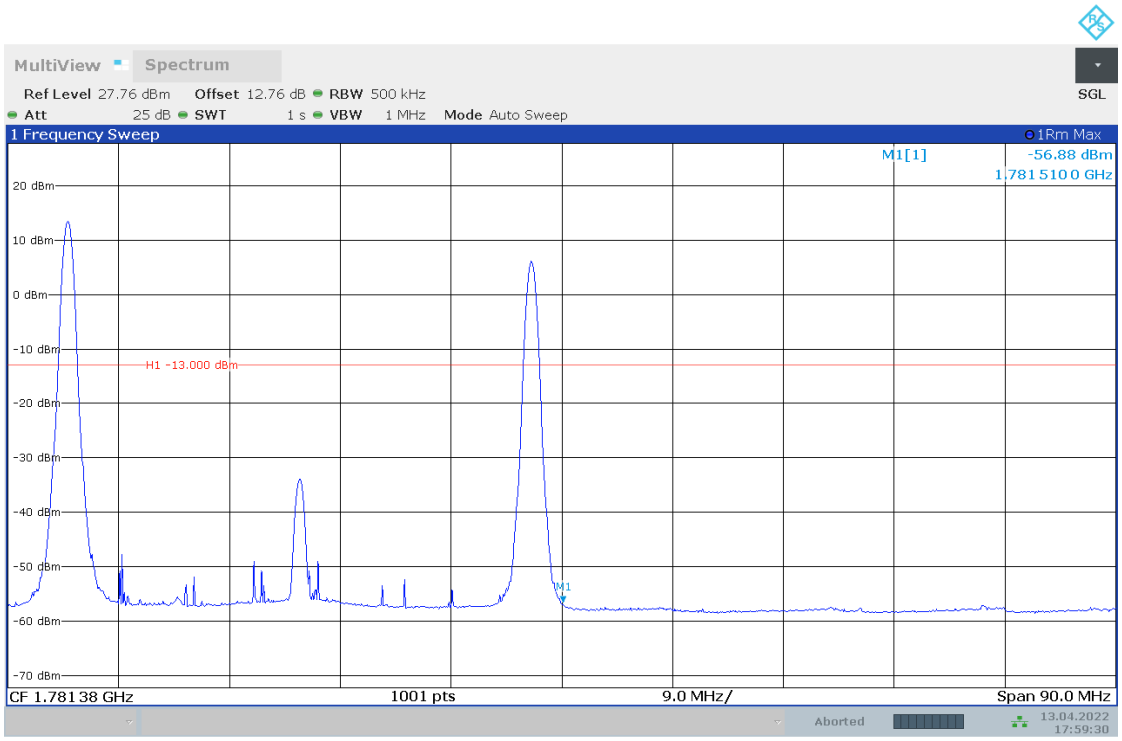
17:57:56 13.04.2022

3.2.23 TM3_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



17:58:50 13.04.2022

3.2.24 TM3_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



17:59:30 13.04.2022

4. APPENDIX D - SPURIOUS EMISSION AT ANTENNA TERMINAL

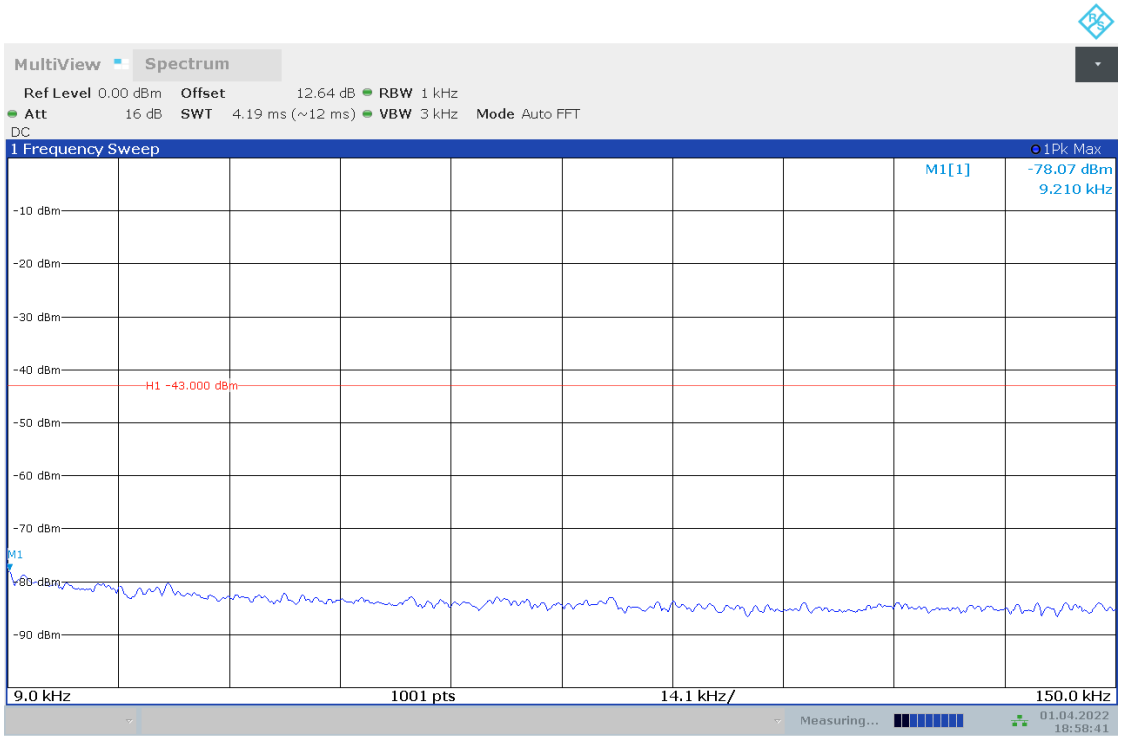
4.1 TEST RESULTS

Spurious Emission at Antenna Terminal									
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
TM1	20+5	LCH	RB100#0	RB25#0	QPSK	0.01	-78.07	-43	PASS
				RB25#0	QPSK	24.42	-73.56	-33	PASS
				RB25#0	QPSK	1697.2	-16.9	-13	PASS
			RB1#0	RB1#24	QPSK	0.01	-78.54	-43	PASS
				RB1#24	QPSK	25.0	-72.52	-33	PASS
				RB1#24	QPSK	1695.21	-20.73	-13	PASS
		MCH	RB100#0	RB25#0	QPSK	0.01	-78.88	-43	PASS
				RB25#0	QPSK	28.21	-72.71	-33	PASS
				RB25#0	QPSK	1781.57	-24.56	-13	PASS
			RB1#0	RB1#24	QPSK	0.01	-79.09	-43	PASS
				RB1#24	QPSK	0.2	-72.95	-33	PASS
				RB1#24	QPSK	1704.69	-27.77	-13	PASS
		HCH	RB100#0	RB25#0	QPSK	0.01	-78.08	-43	PASS
				RB25#0	QPSK	23.78	-73.57	-33	PASS
				RB25#0	QPSK	1782.07	-19.21	-13	PASS
			RB1#0	RB1#24	QPSK	0.01	-78.79	-43	PASS
				RB1#24	QPSK	27.39	-73.45	-33	PASS
				RB1#24	QPSK	1793.56	-37.34	-13	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	0.01	-77.85	-43	PASS
				RB100#0	QPSK	28.55	-73.29	-33	PASS
				RB100#0	QPSK	1697.7	-23.58	-13	PASS
			RB1#0	RB1#99	QPSK	0.01	-77.91	-43	PASS
				RB1#99	QPSK	27.08	-73.46	-33	PASS
				RB1#99	QPSK	1781.57	-33.98	-13	PASS
		MCH	RB100#0	RB100#0	QPSK	0.01	-77.64	-43	PASS
				RB100#0	QPSK	29.58	-73.46	-33	PASS
				RB100#0	QPSK	1782.07	-29.39	-13	PASS
			RB1#0	RB1#99	QPSK	0.01	-77.23	-43	PASS
				RB1#99	QPSK	29.63	-73.28	-33	PASS
				RB1#99	QPSK	1705.69	-18.25	-13	PASS
		HCH	RB100#0	RB100#0	QPSK	0.01	-78.22	-43	PASS
				RB100#0	QPSK	17.0	-73.26	-33	PASS
				RB100#0	QPSK	19722.17	-41.53	-13	PASS
			RB1#0	RB1#99	QPSK	0.01	-78.12	-43	PASS
				RB1#99	QPSK	0.18	-73.31	-33	PASS
				RB1#99	QPSK	1705.69	-19.02	-13	PASS

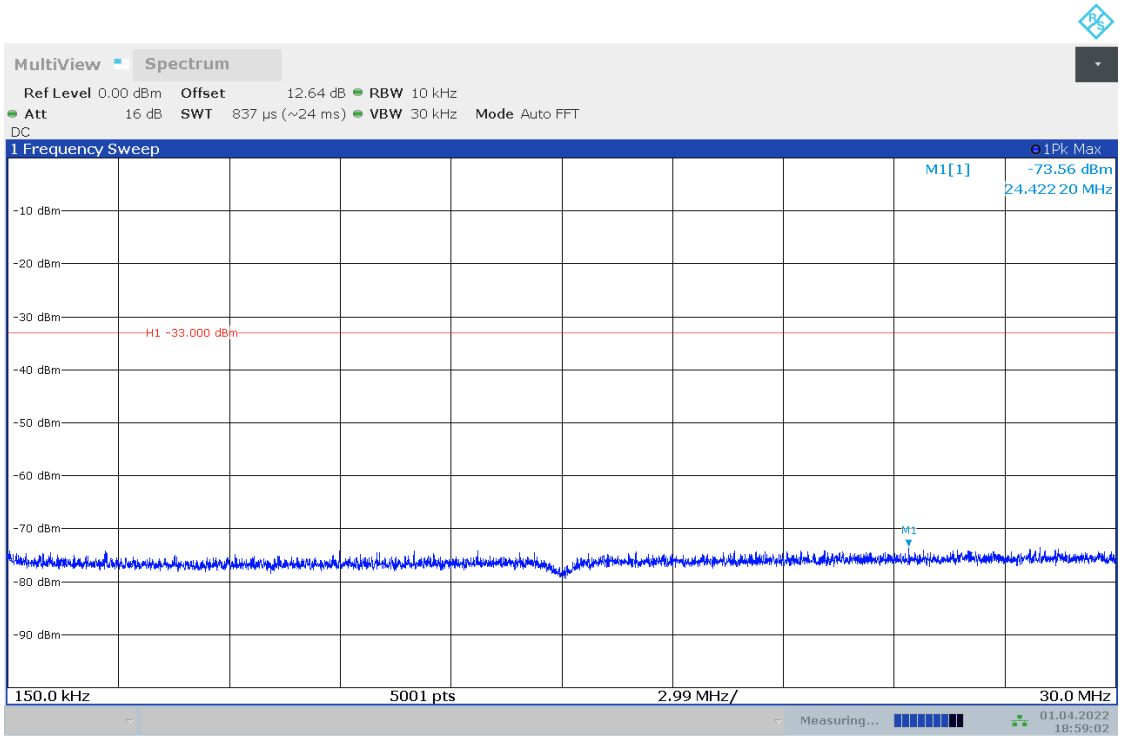
Spurious Emission at Antenna Terminal									
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
TM2	20+5	LCH	RB100#0	RB25#0	16QAM	0.01	-78.79	-43	PASS
				RB25#0	16QAM	29.91	-73.60	-33	PASS
				RB25#0	16QAM	1697.2	-17.31	-13	PASS
			RB1#0	RB1#24	16QAM	0.01	-78.66	-43	PASS
				RB1#24	16QAM	0.52	-73.27	-33	PASS
				RB1#24	16QAM	1695.71	-21.33	-13	PASS
		MCH	RB100#0	RB25#0	16QAM	0.01	-78.76	-43	PASS
				RB25#0	16QAM	21.93	-72.57	-33	PASS
				RB25#0	16QAM	1783.57	-22.65	-13	PASS
			RB1#0	RB1#24	16QAM	0.01	-77.80	-43	PASS
				RB1#24	16QAM	29.84	-72.13	-33	PASS
				RB1#24	16QAM	4683.64	-24.17	-13	PASS
		HCH	RB100#0	RB25#0	16QAM	0.01	-78.00	-43	PASS
				RB25#0	16QAM	10.78	-73.46	-33	PASS
				RB25#0	16QAM	1781.57	-20.02	-13	PASS
			RB1#0	RB1#24	16QAM	0.01	-78.04	-43	PASS
				RB1#24	16QAM	26.99	-72.78	-33	PASS
				RB1#24	16QAM	1782.07	-22.39	-13	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	0.01	-78.96	-43	PASS
				RB100#0	16QAM	15.85	-73.60	-33	PASS
				RB100#0	16QAM	1697.2	-23.09	-13	PASS
			RB1#0	RB1#99	16QAM	0.01	-78.36	-43	PASS
				RB1#99	16QAM	26.46	-73.24	-33	PASS
				RB1#99	16QAM	1708.69	-17.86	-13	PASS
		MCH	RB100#0	RB100#0	16QAM	0.01	-78.97	-43	PASS
				RB100#0	16QAM	28.62	-73.03	-33	PASS
				RB100#0	16QAM	1708.19	-18.24	-13	PASS
			RB1#0	RB1#99	16QAM	0.01	-78.67	-43	PASS
				RB1#99	16QAM	27.17	-72.78	-33	PASS
				RB1#99	16QAM	1702.7	-17.69	-13	PASS
		HCH	RB100#0	RB100#0	16QAM	0.01	-78.12	-43	PASS
				RB100#0	16QAM	19.43	-72.93	-33	PASS
				RB100#0	16QAM	1708.69	-21.02	-13	PASS
			RB1#0	RB1#99	16QAM	0.01	-77.66	-43	PASS
				RB1#99	16QAM	25.34	-73.56	-33	PASS
				RB1#99	16QAM	1705.69	-17.56	-13	PASS

4.2 TEST PLOTS

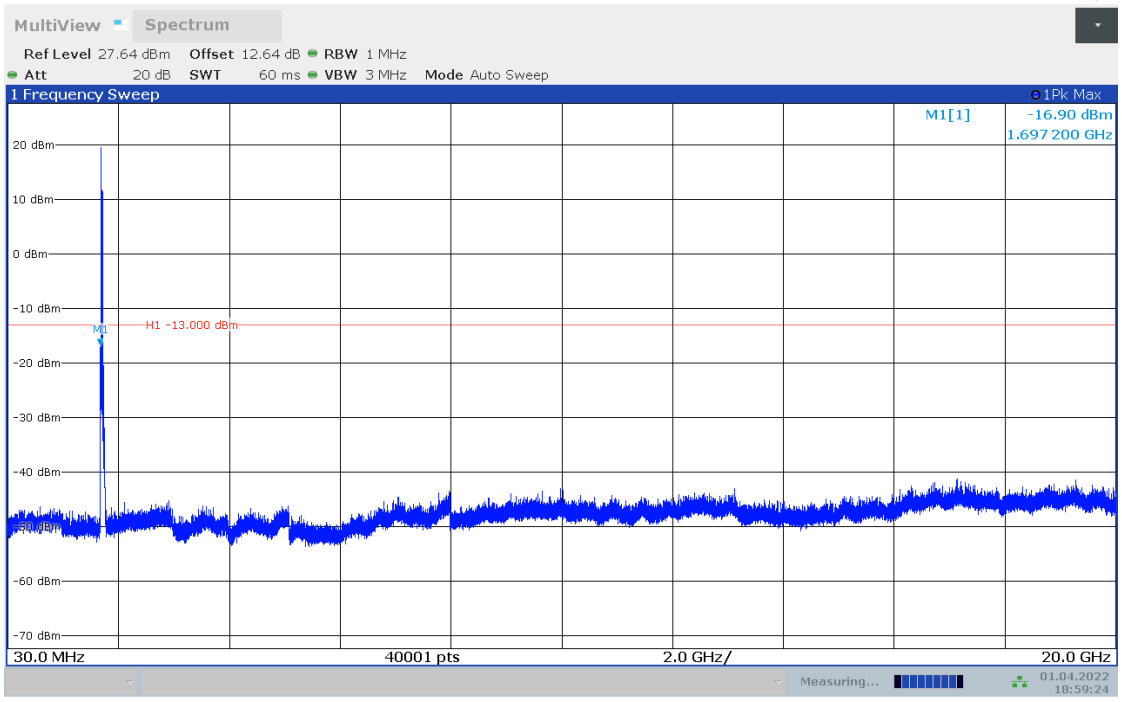
4.2.1 TM1_LCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



18:58:42 01.04.2022

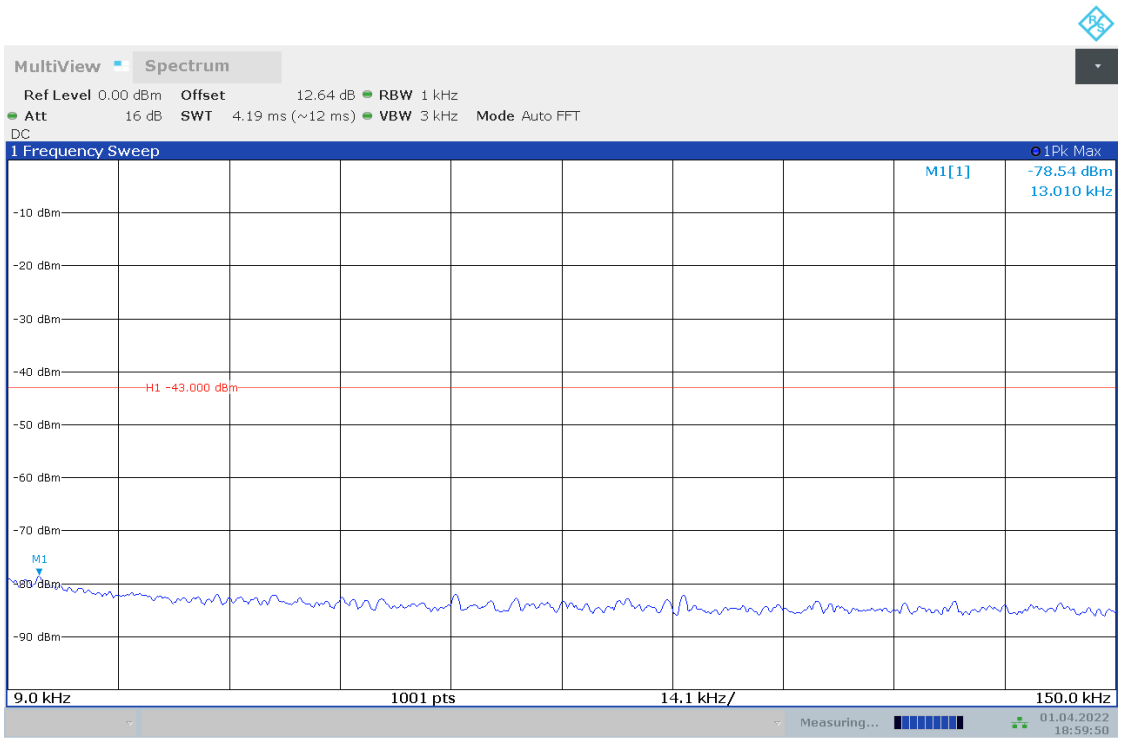


18:59:03 01.04.2022

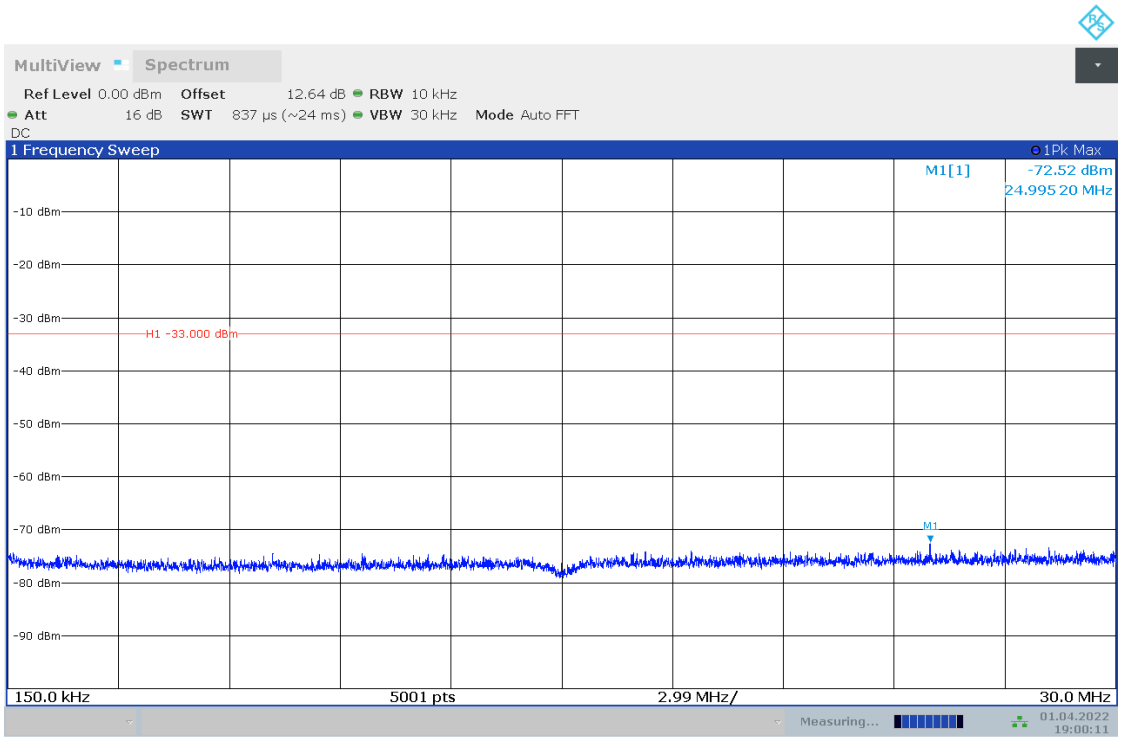


18:59:25 01.04.2022

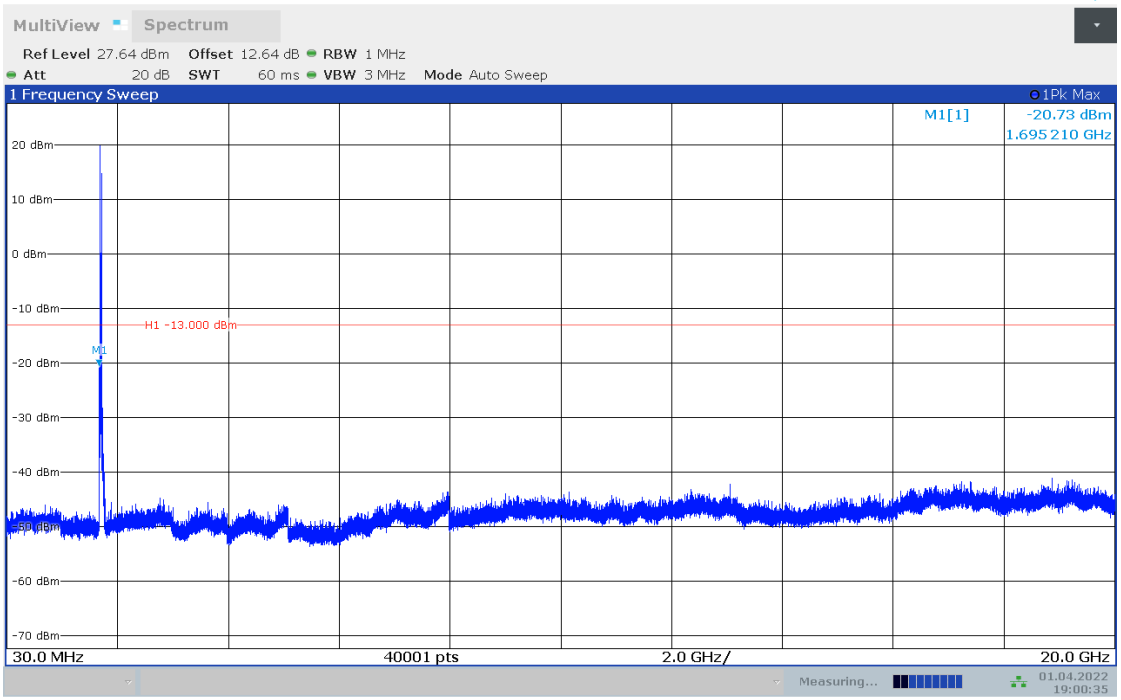
4.2.2 TM1_LCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



18:59:51 01.04.2022

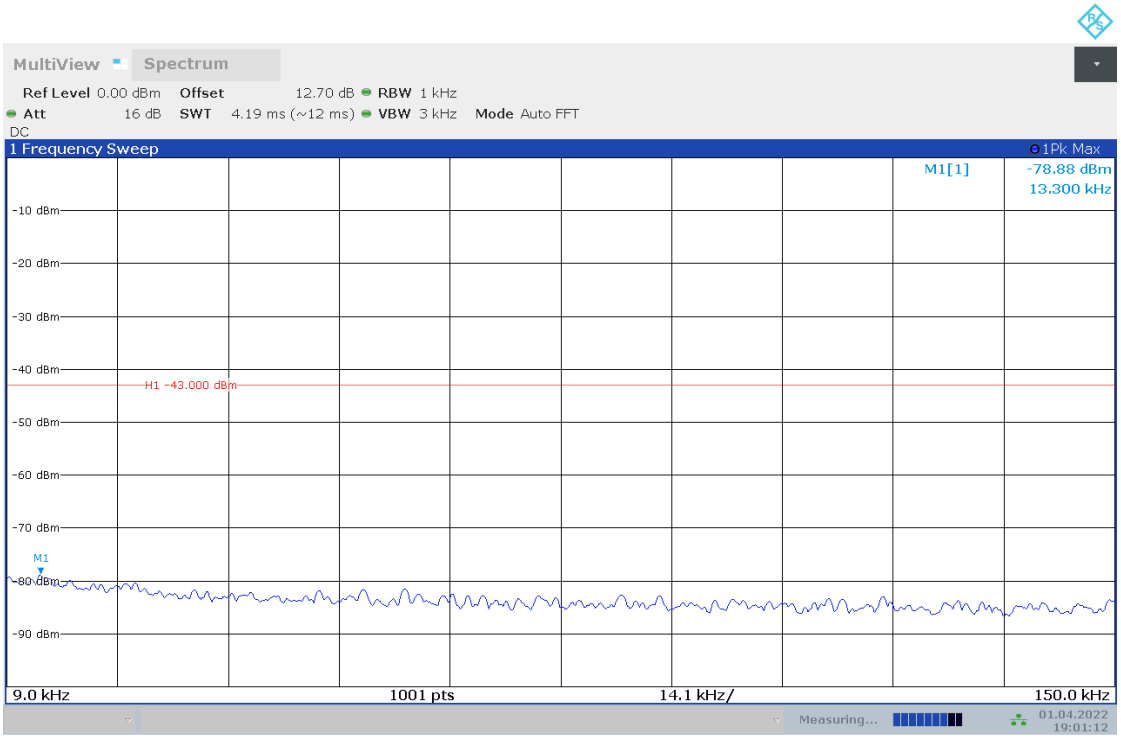


19:00:12 01.04.2022

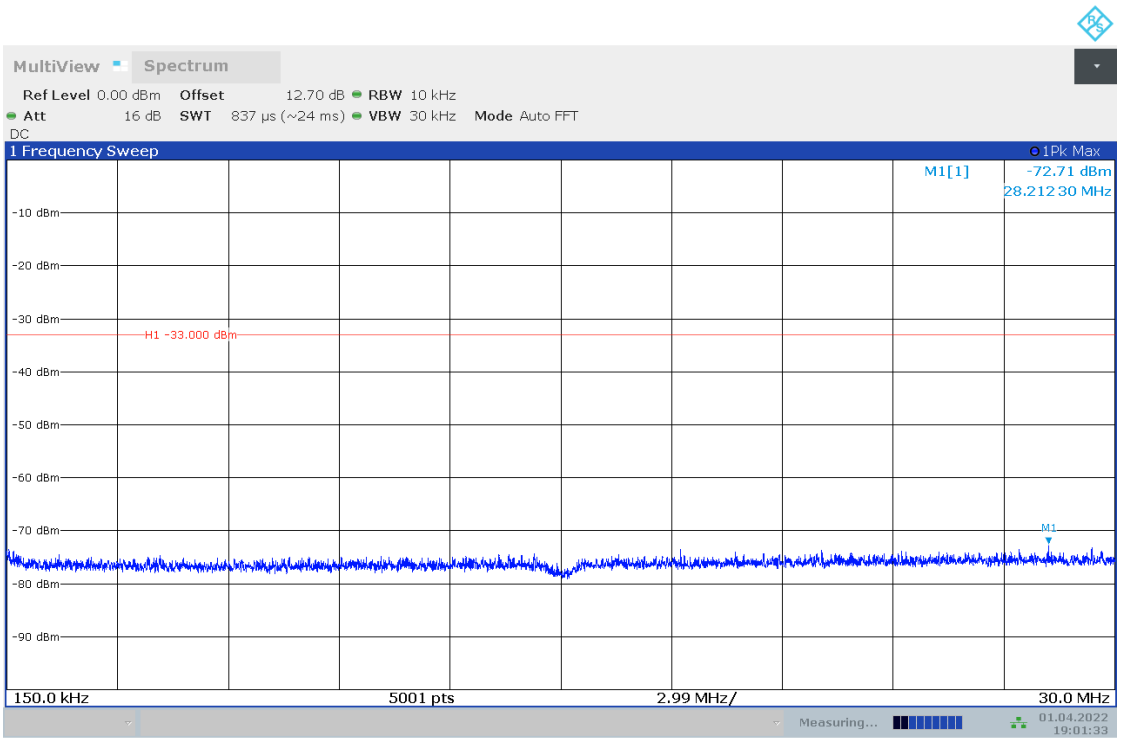


19:00:35 01.04.2022

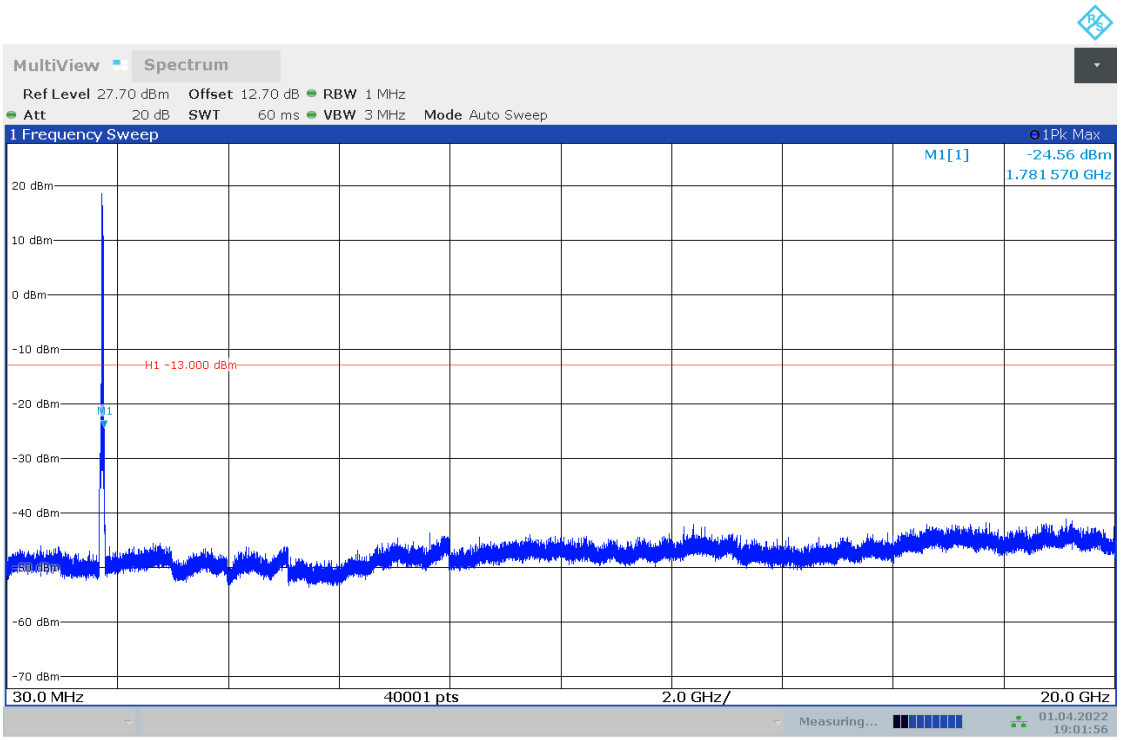
4.2.3 TM1_MCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



19:01:13 01.04.2022

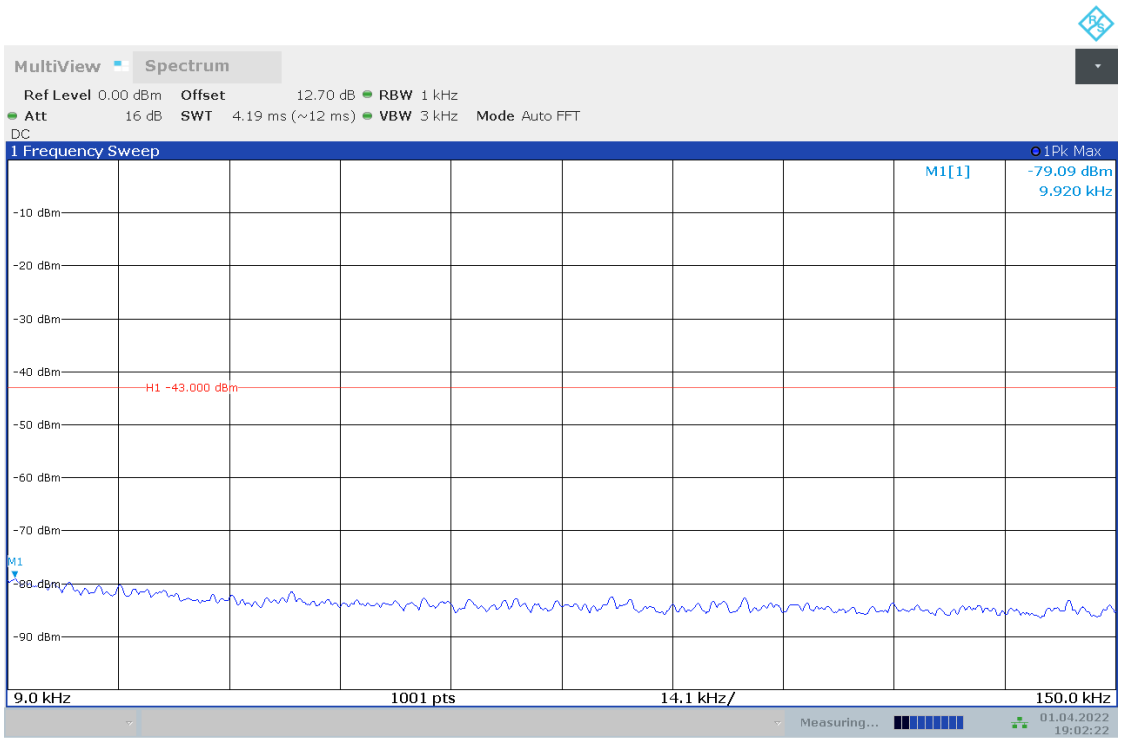


19:01:34 01.04.2022

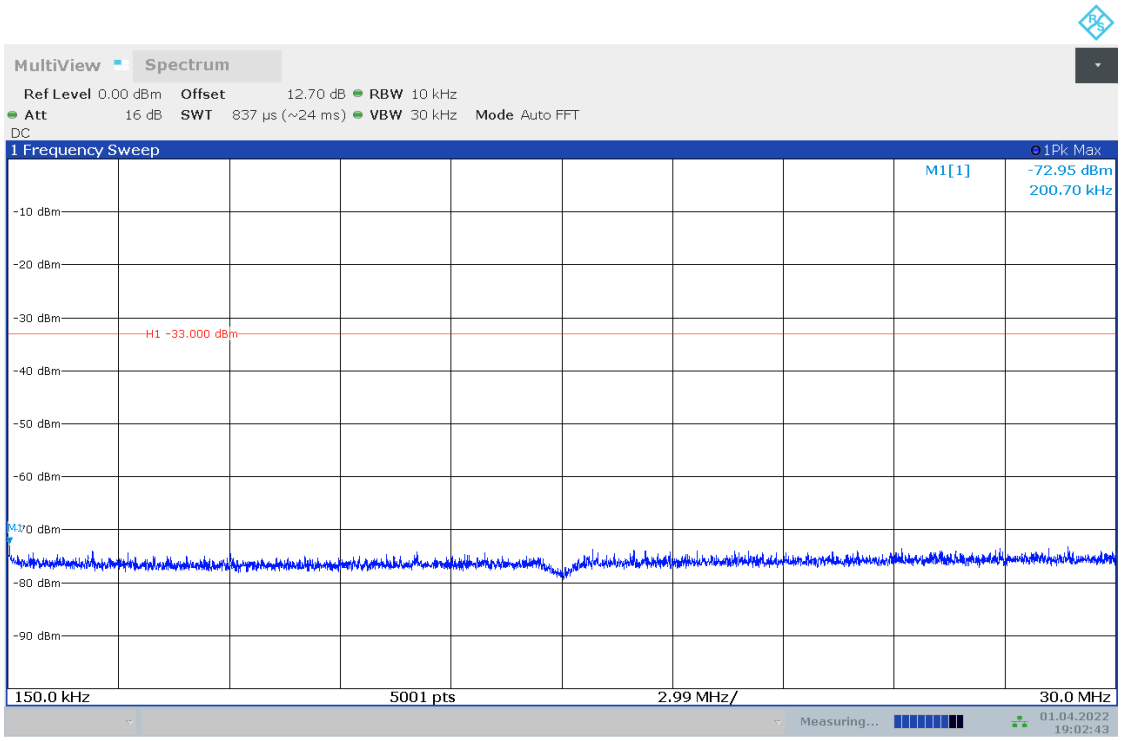


19:01:57 01.04.2022

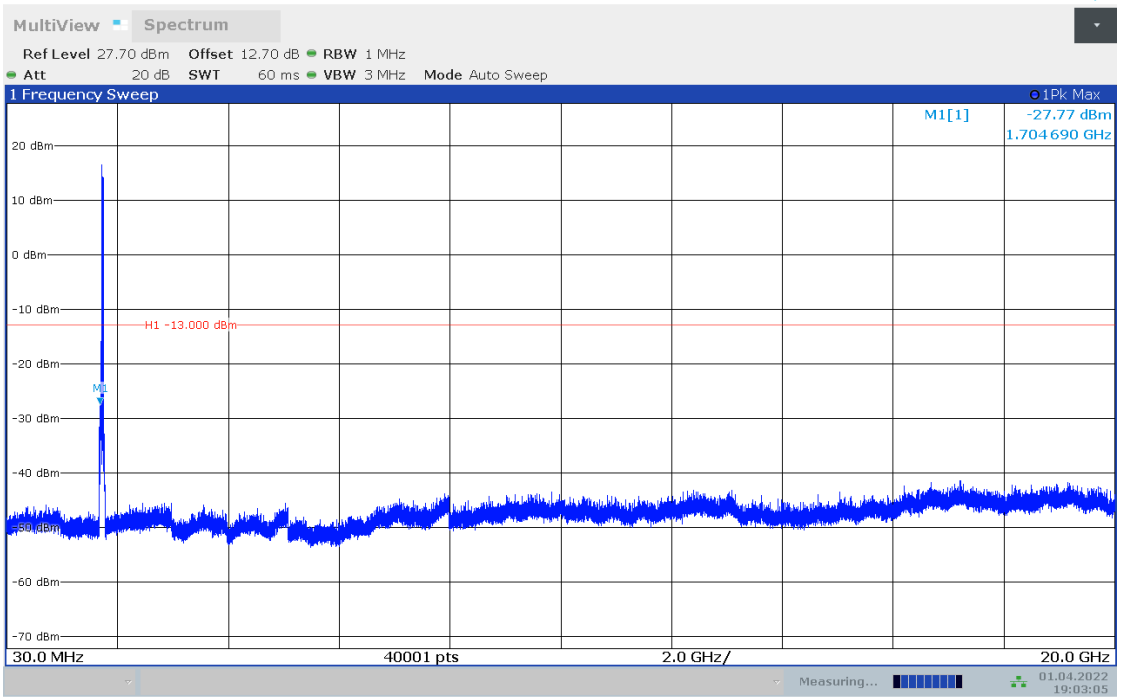
4.2.4 TM1_MCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



19:02:23 01.04.2022

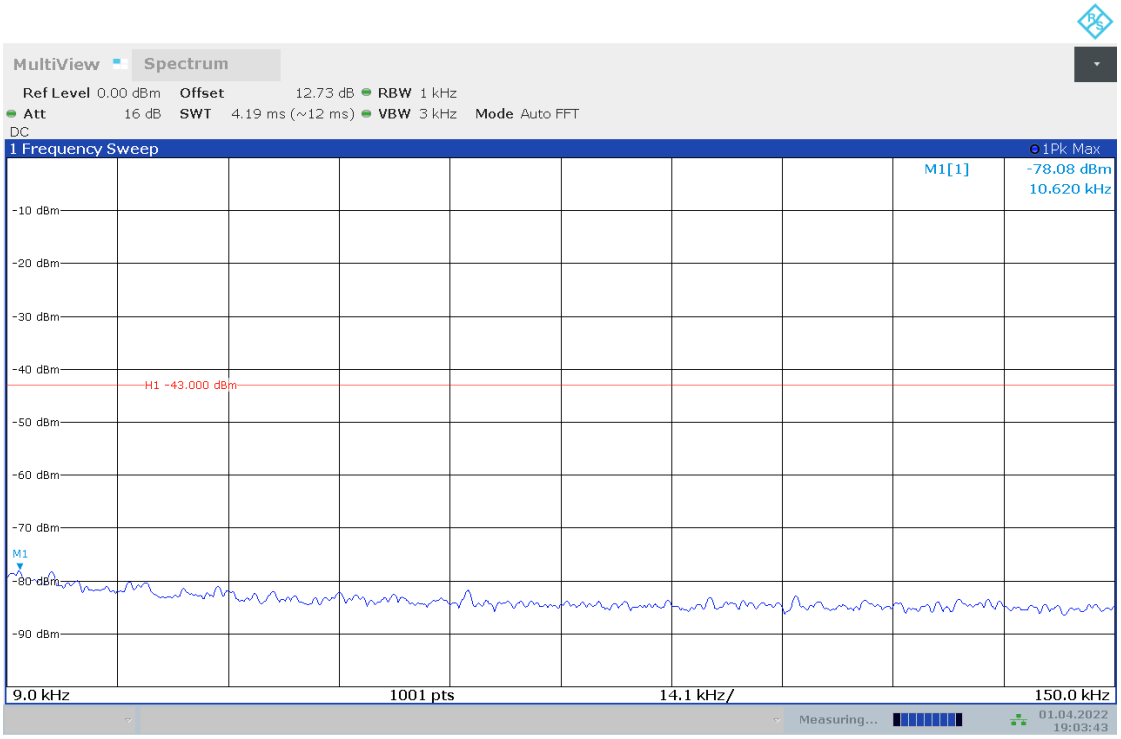


19:02:44 01.04.2022

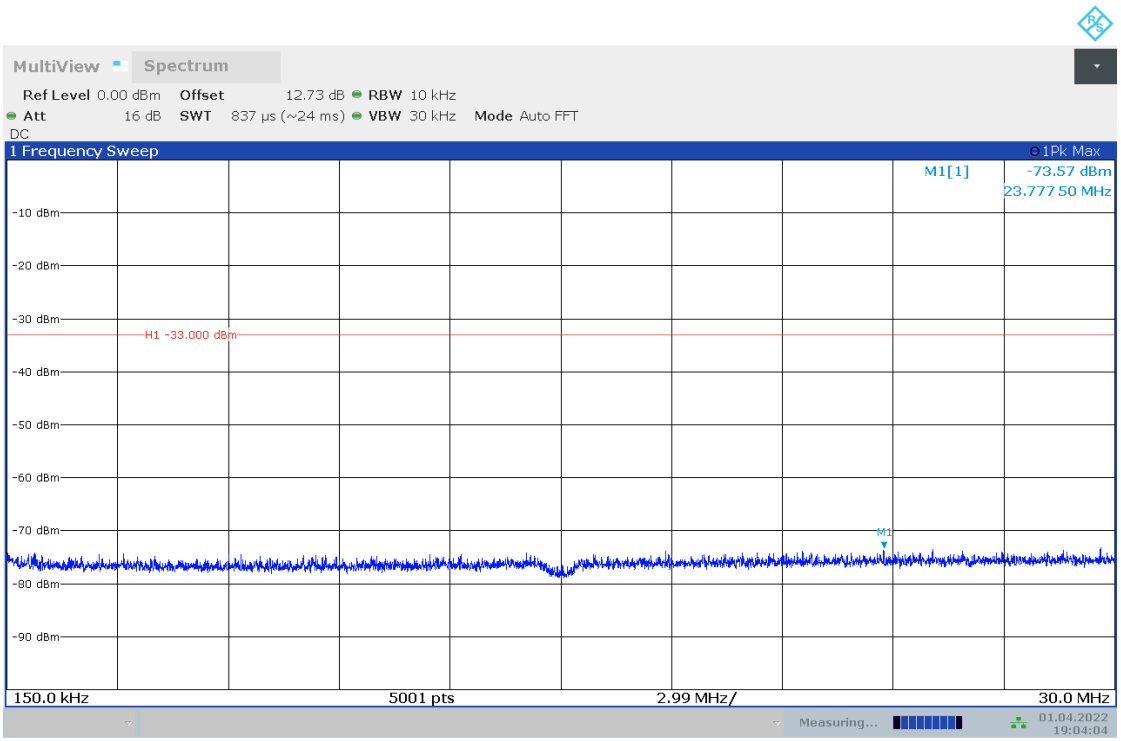


19:03:06 01.04.2022

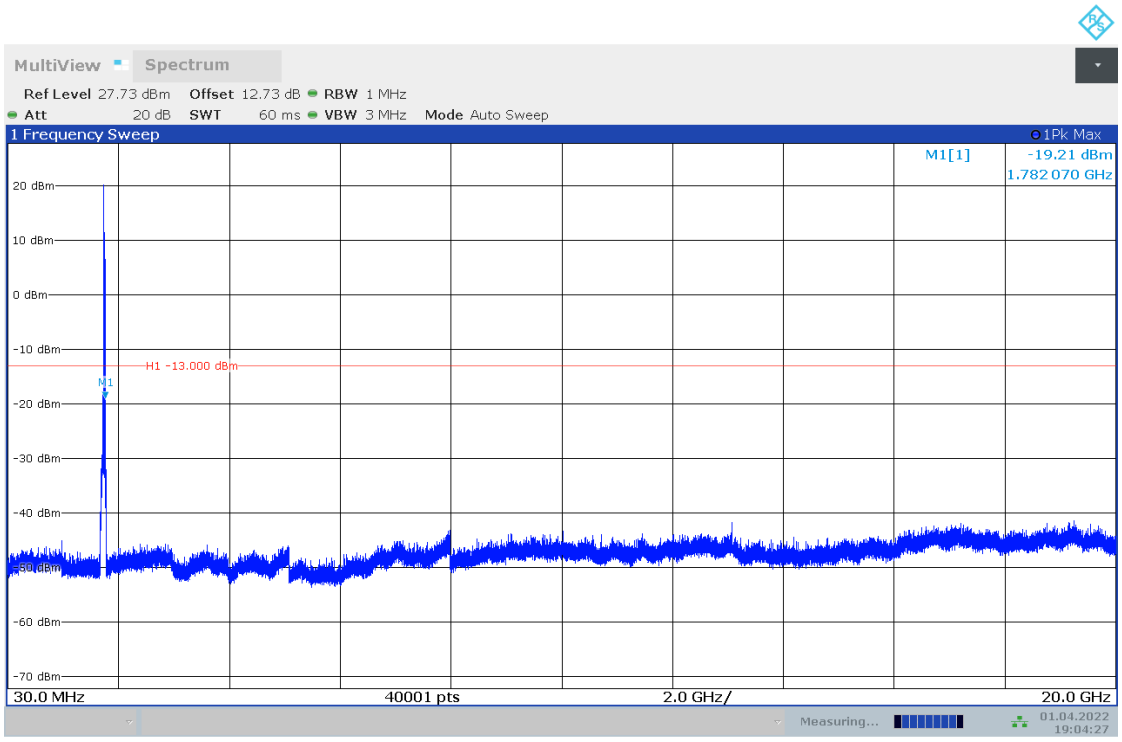
4.2.5 TM1_HCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



19:03:44 01.04.2022

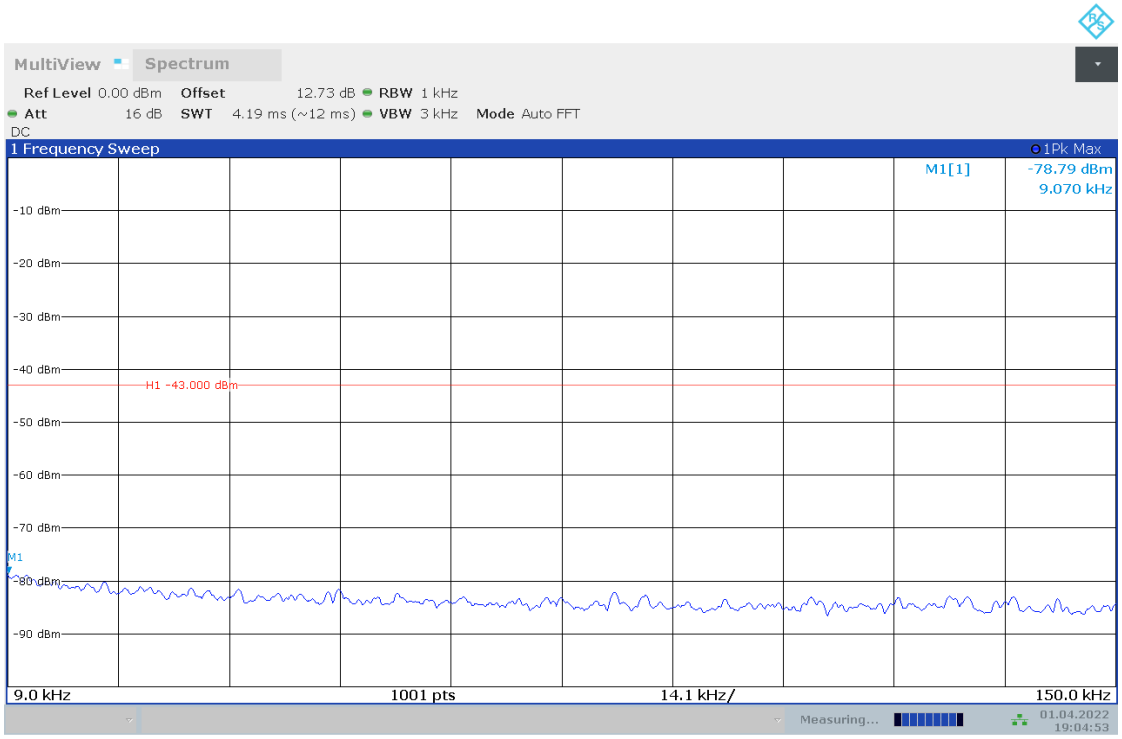


19:04:05 01.04.2022

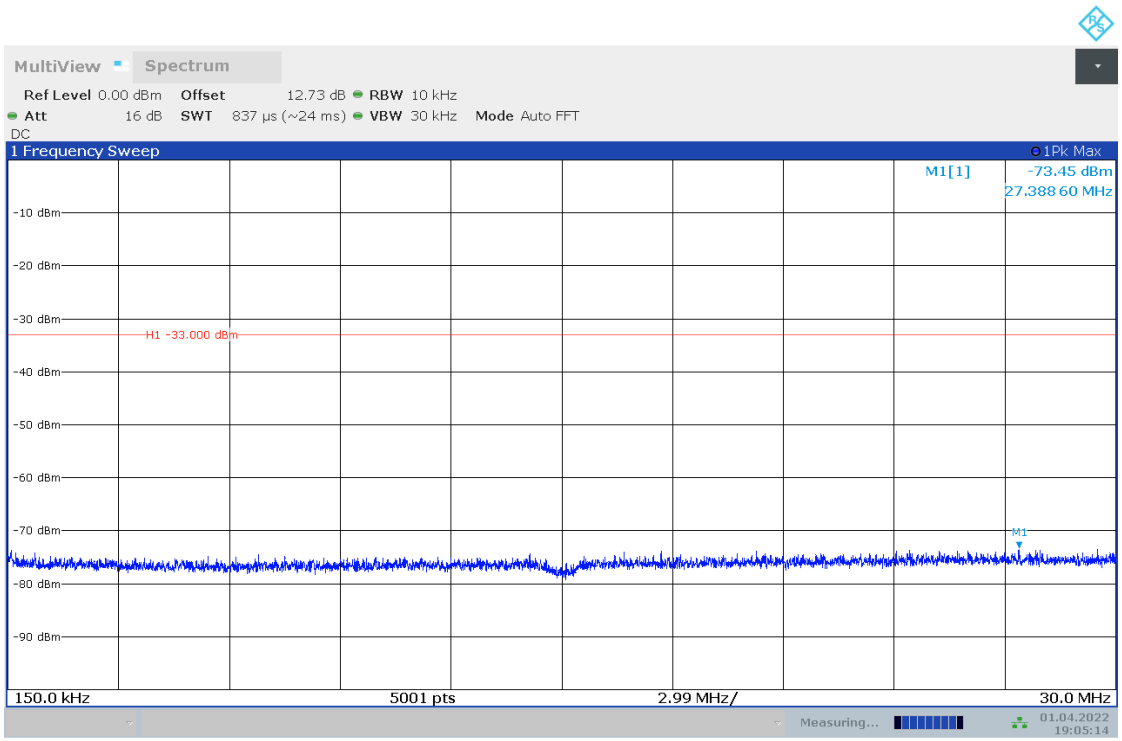


19:04:28 01.04.2022

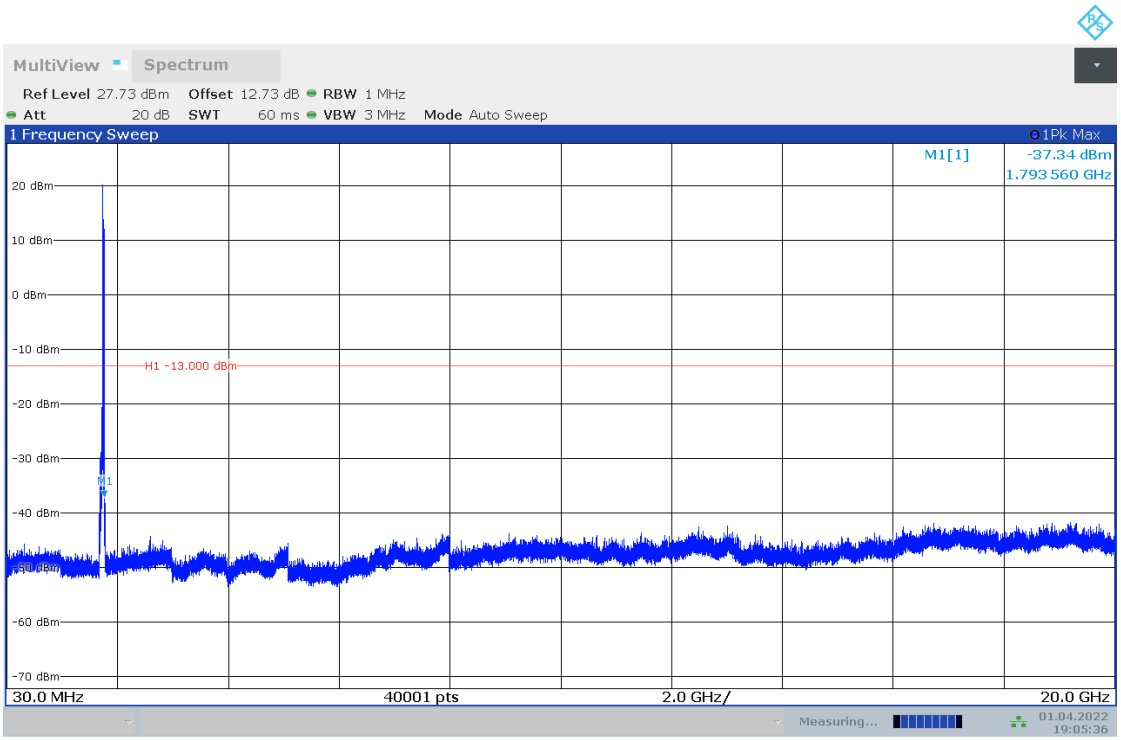
4.2.6 TM1_HCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



19:04:53 01.04.2022

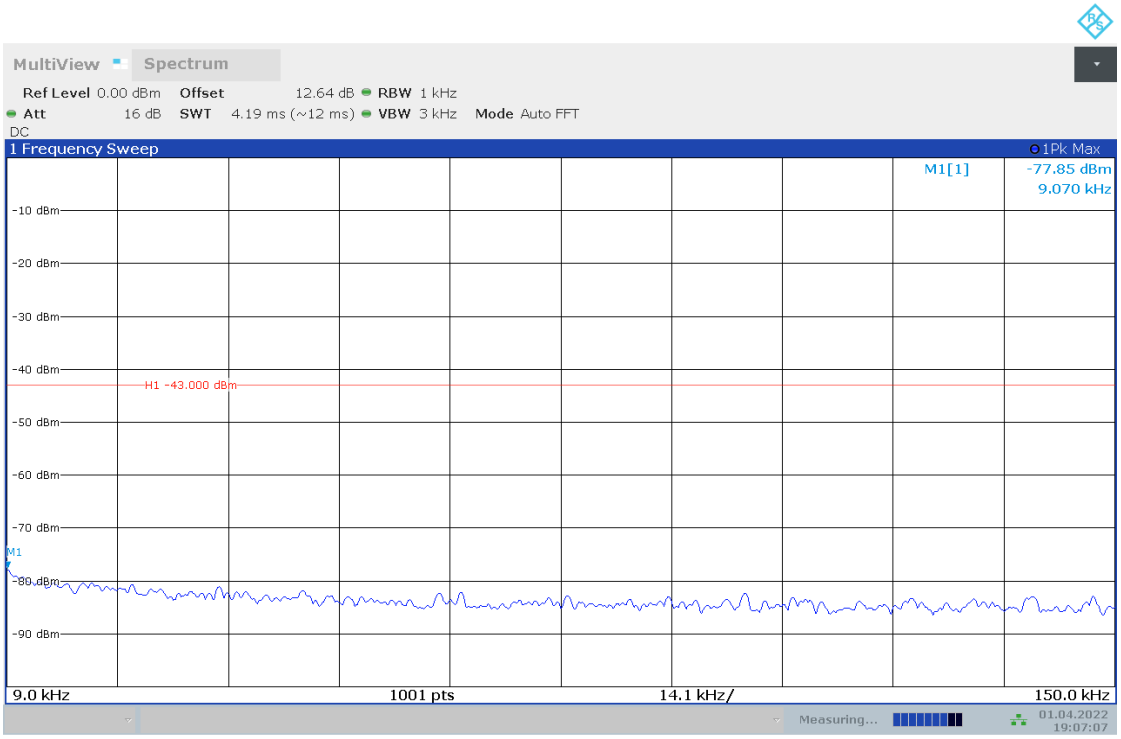


19:05:15 01.04.2022

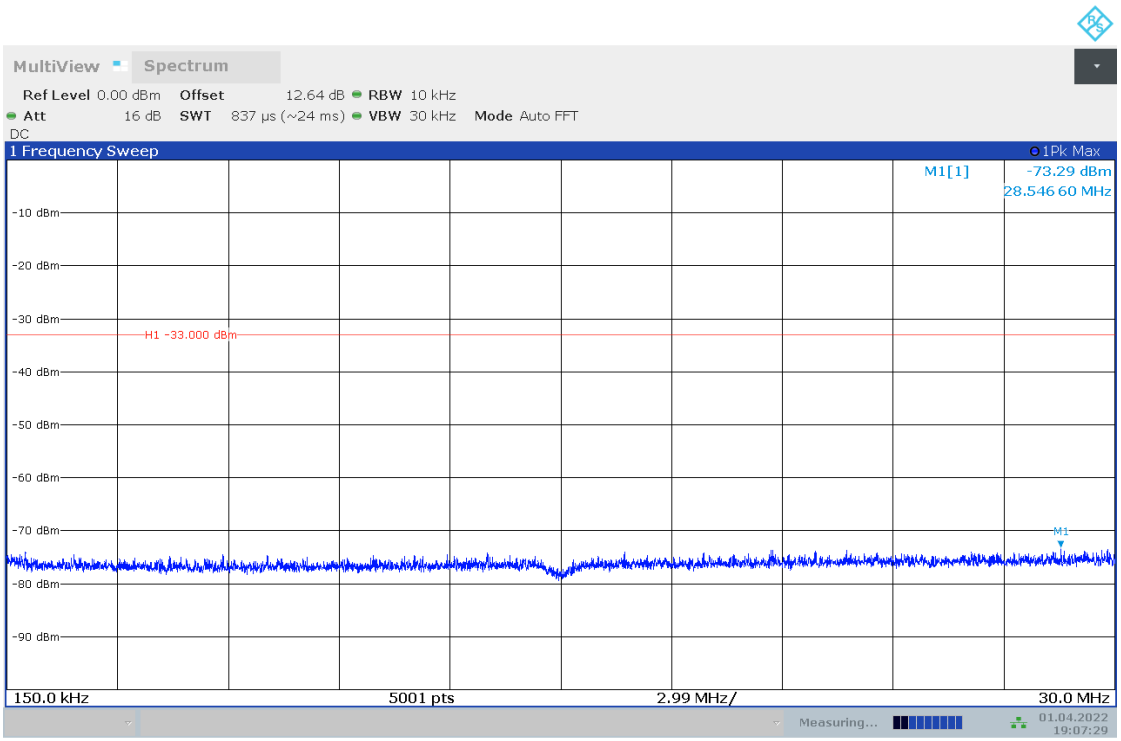


19:05:37 01.04.2022

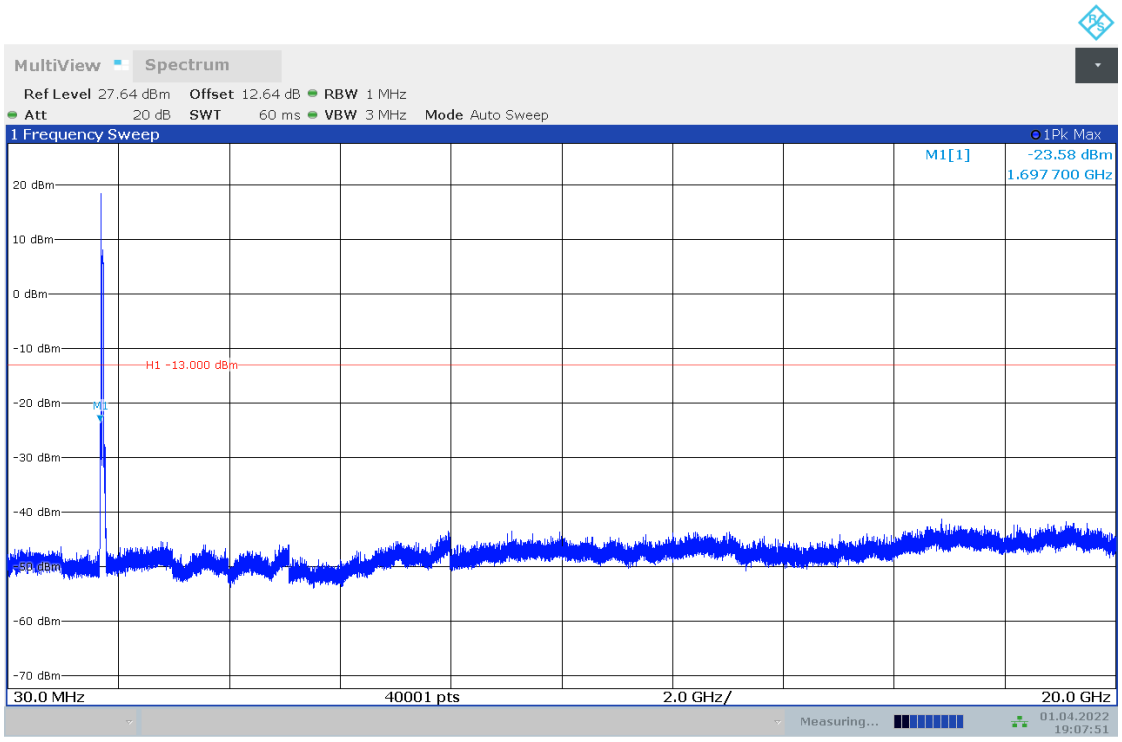
4.2.7 TM1_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



19:07:08 01.04.2022

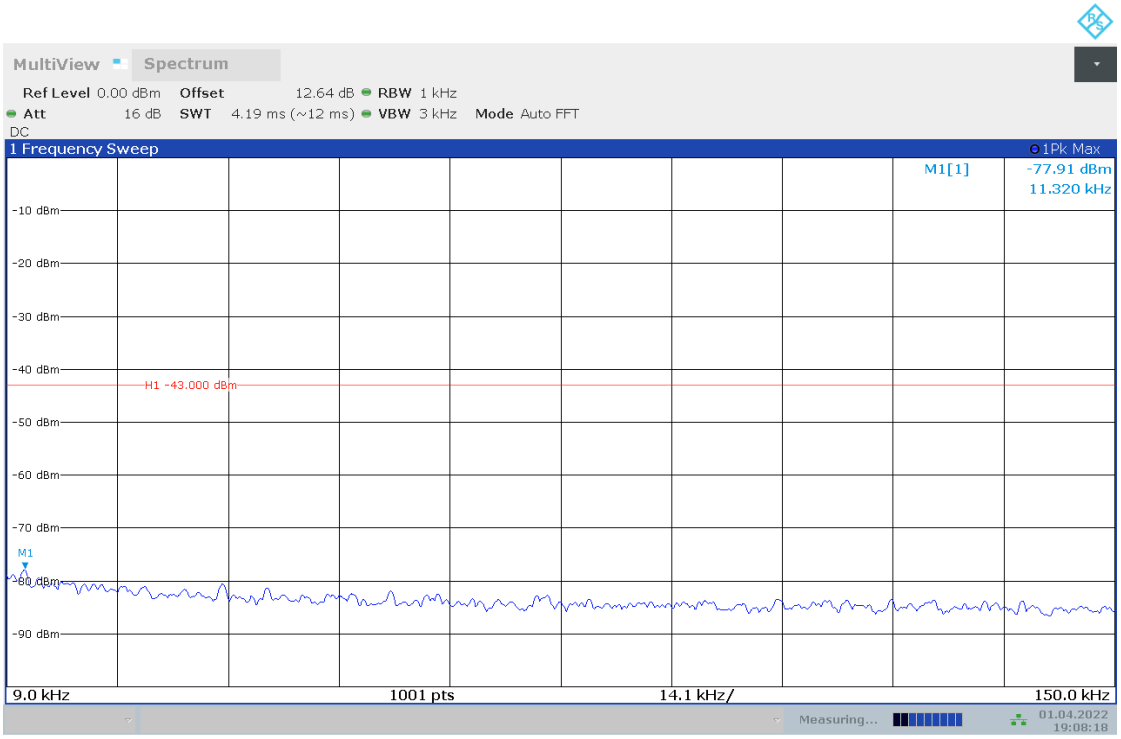


19:07:29 01.04.2022

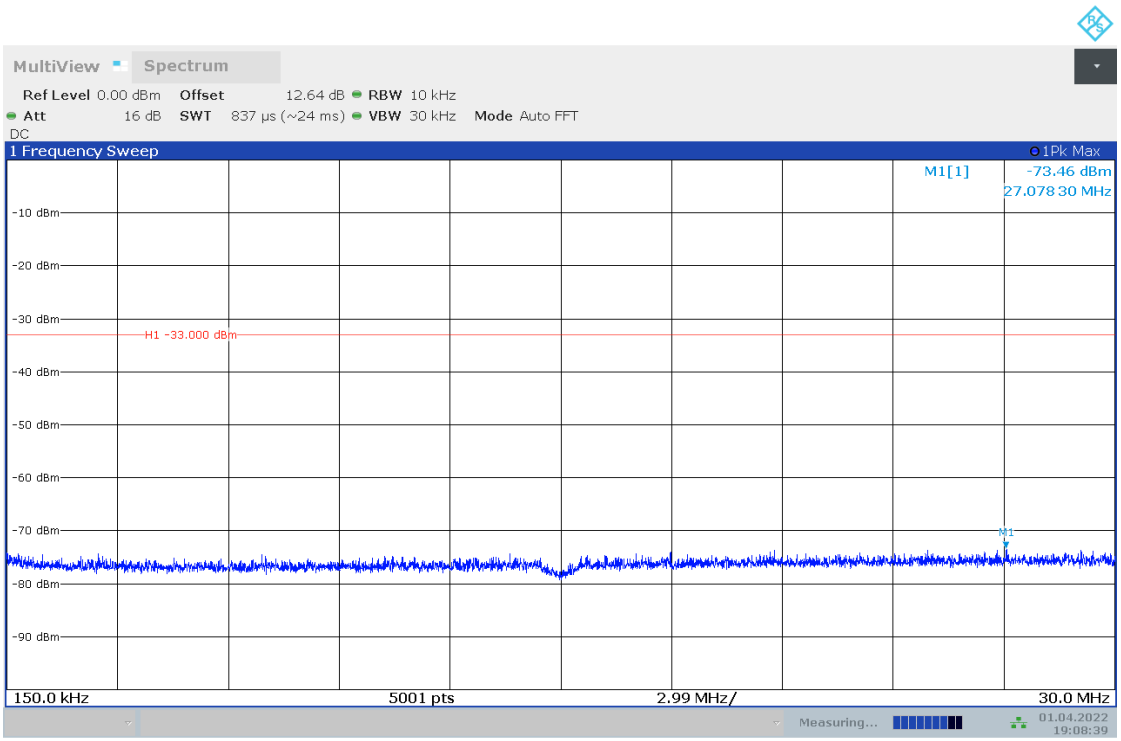


19:07:52 01.04.2022

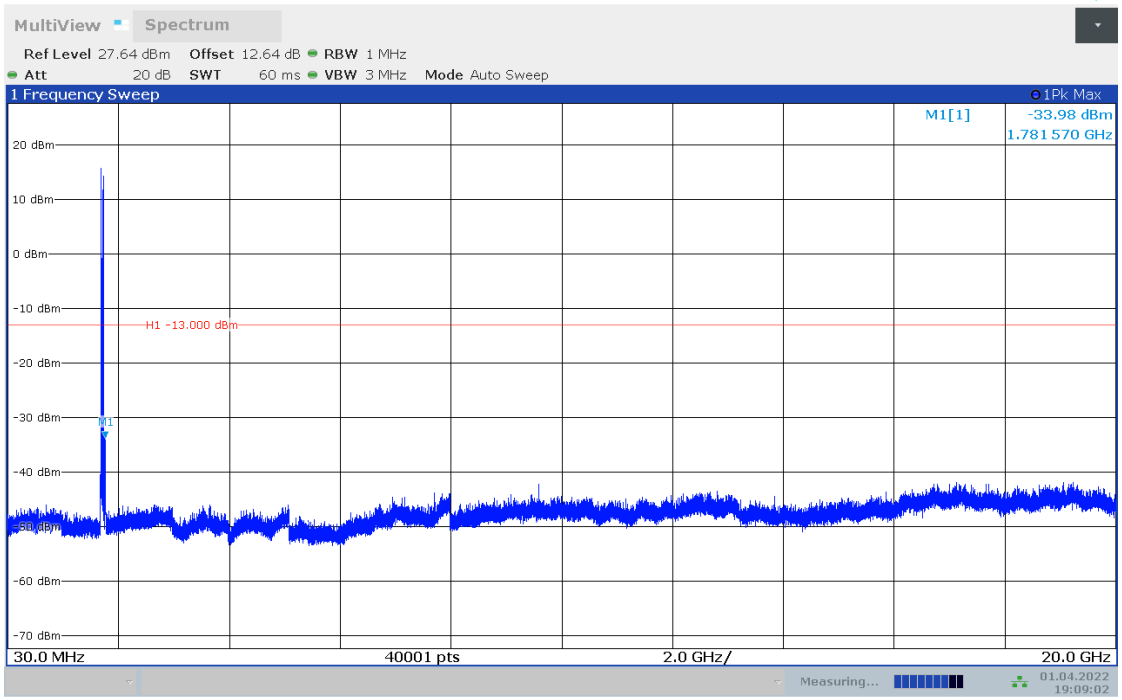
4.2.8 TM1_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



19:08:18 01.04.2022

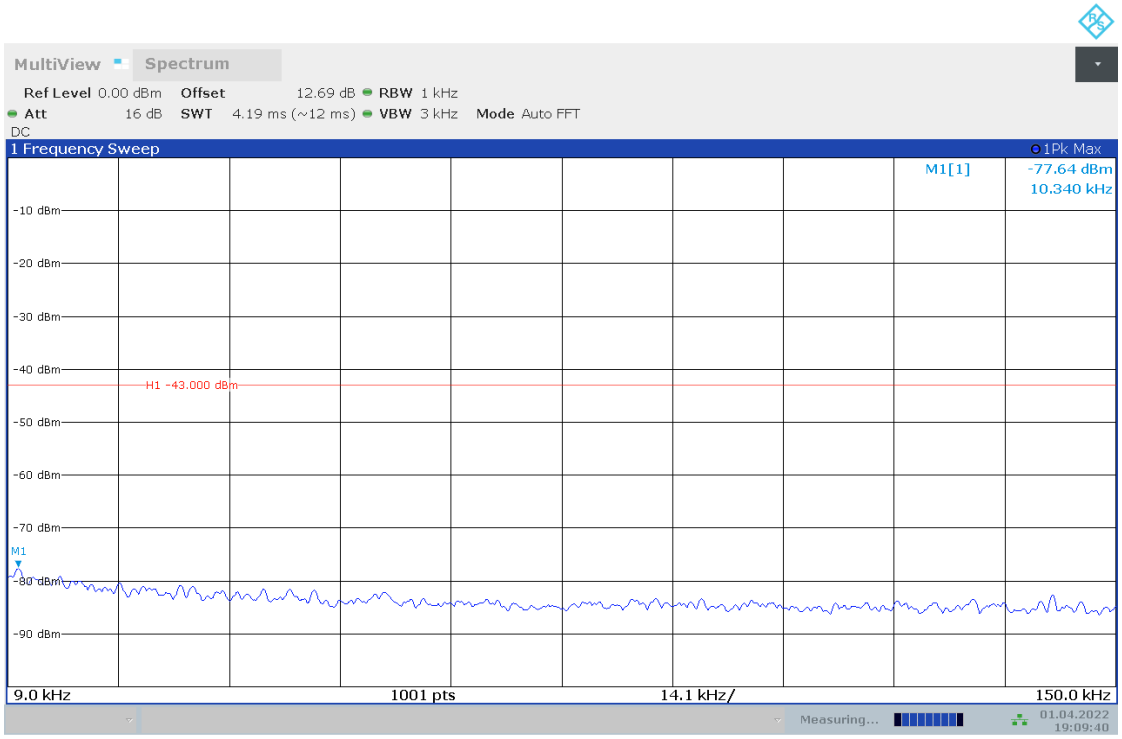


19:08:39 01.04.2022

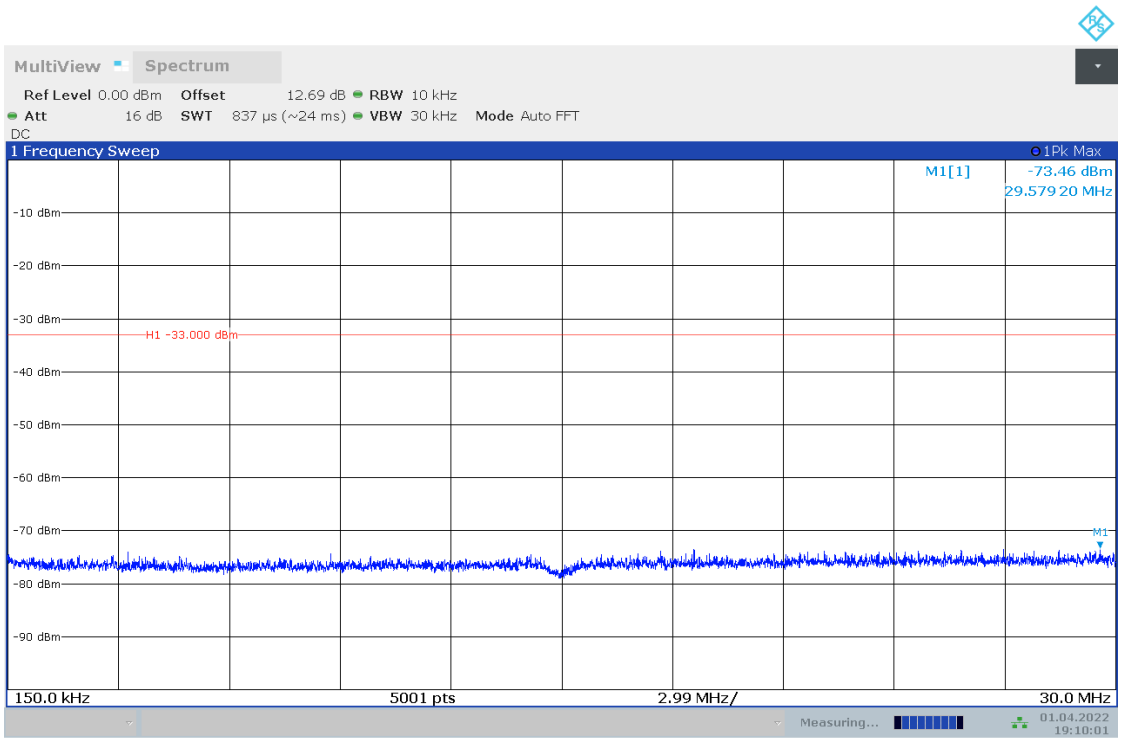


19:09:02 01.04.2022

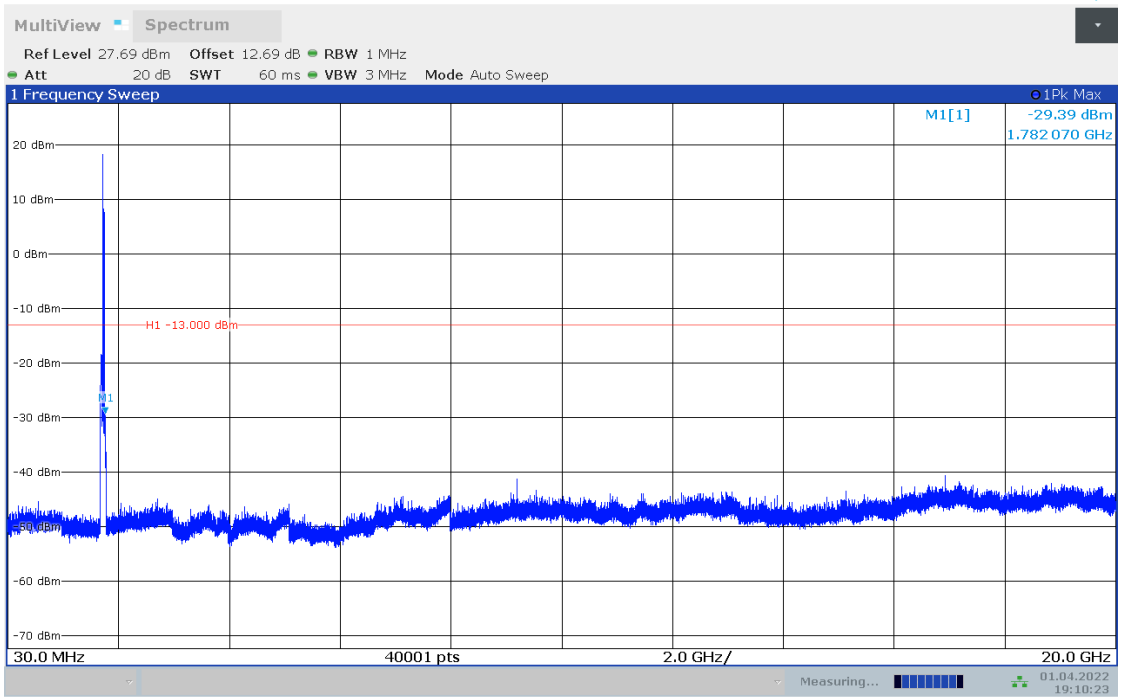
4.2.9 TM1_MCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



19:09:40 01.04.2022

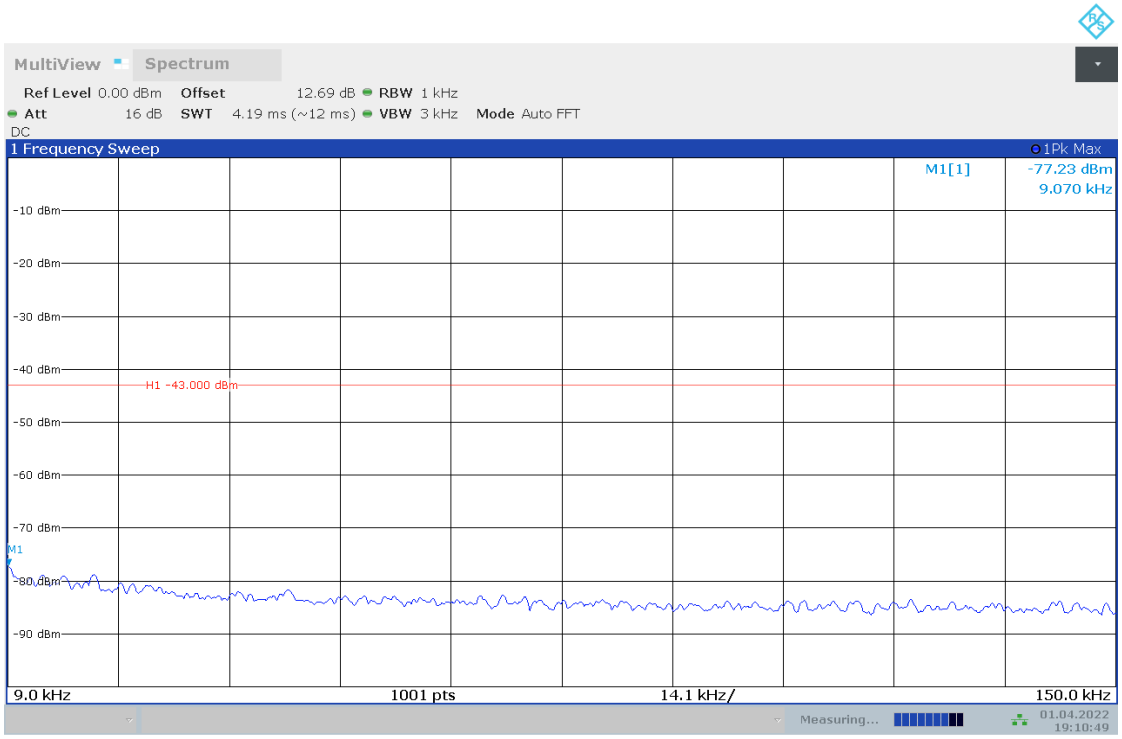


19:10:01 01.04.2022

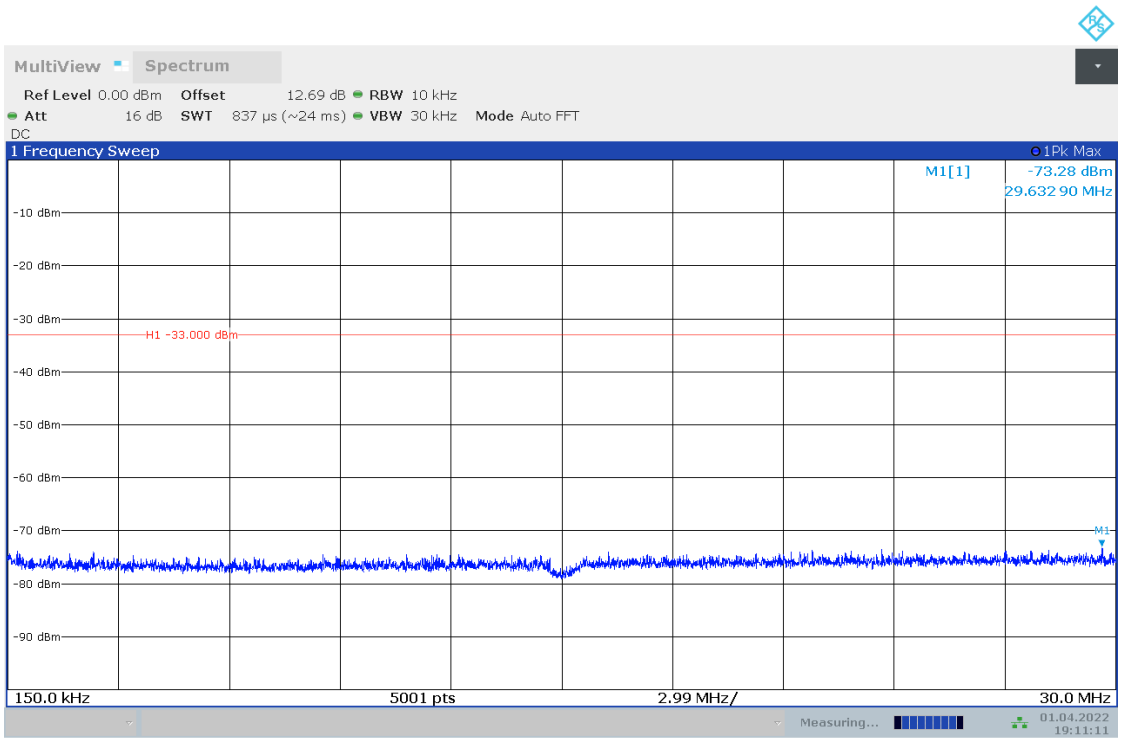


19:10:24 01.04.2022

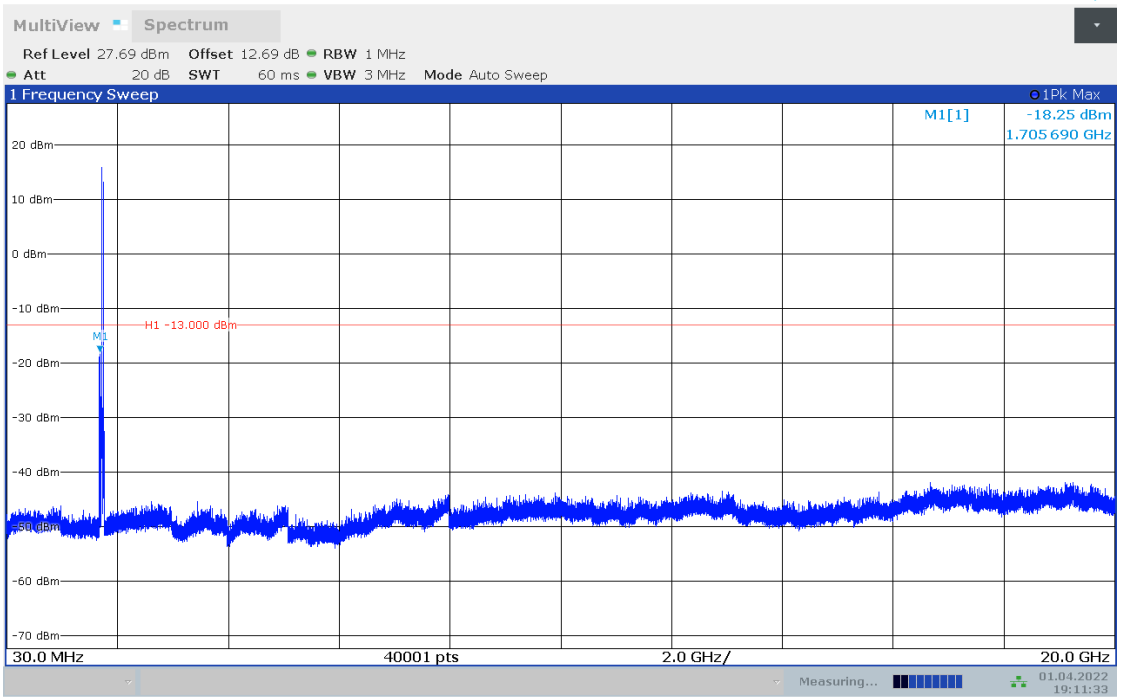
4.2.10 TM1_MCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



19:10:49 01.04.2022

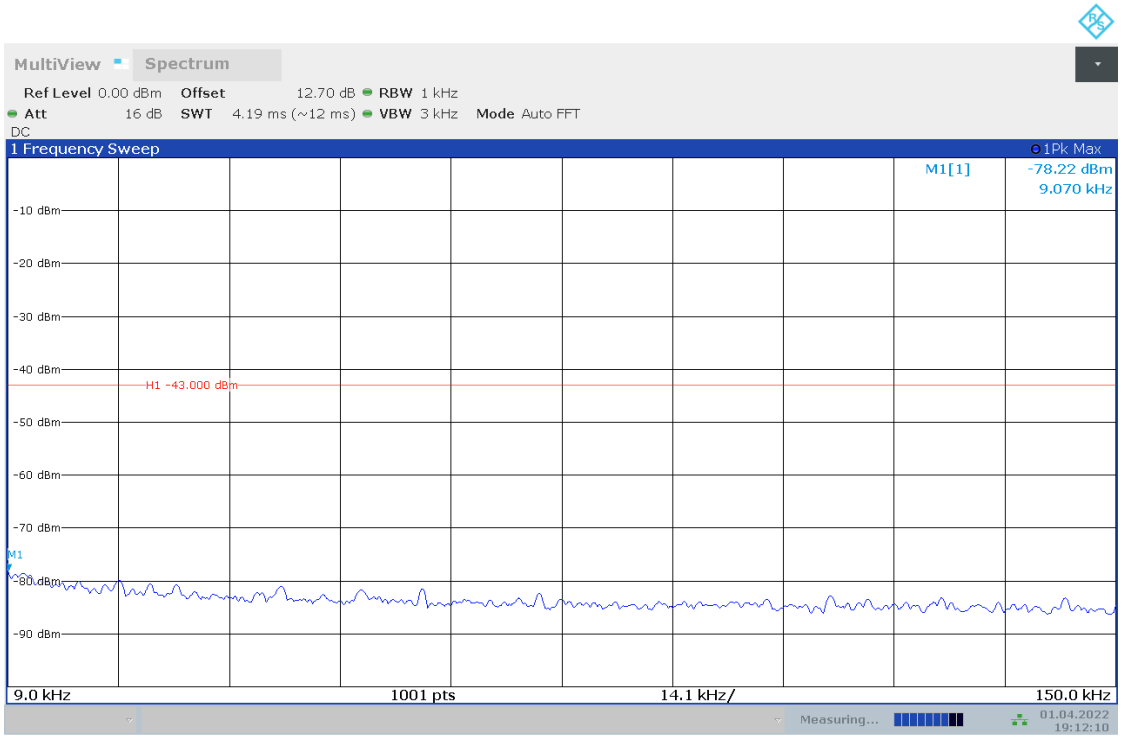


19:11:11 01.04.2022

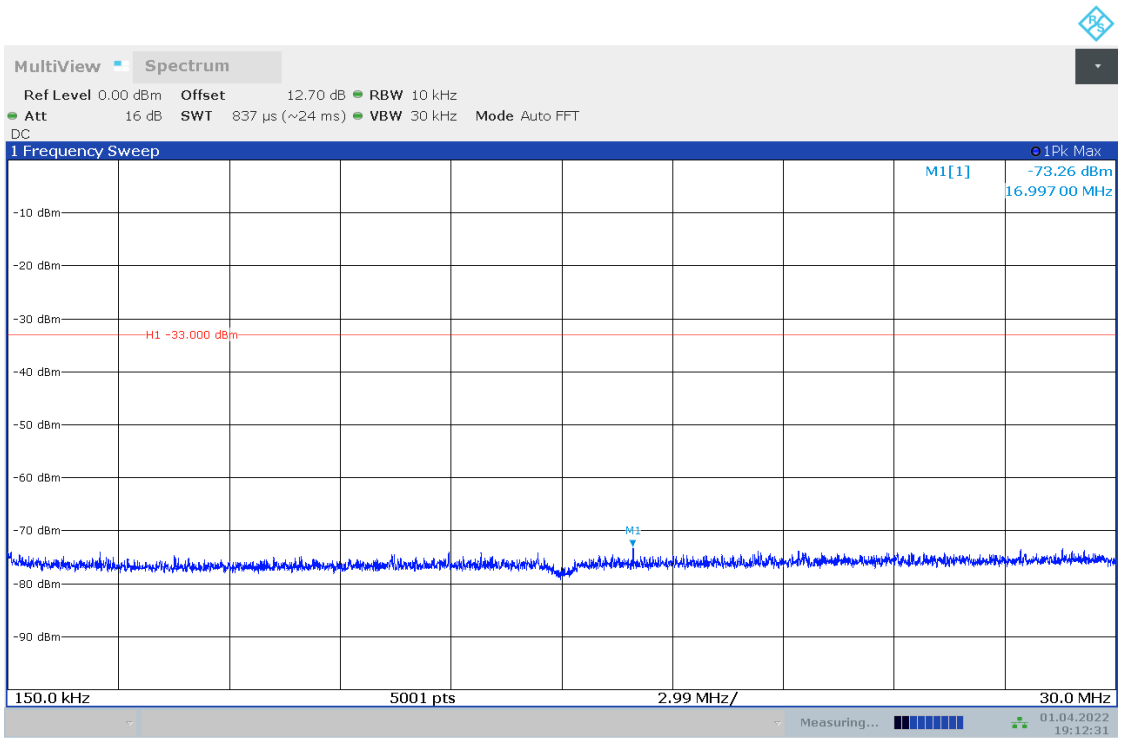


19:11:33 01.04.2022

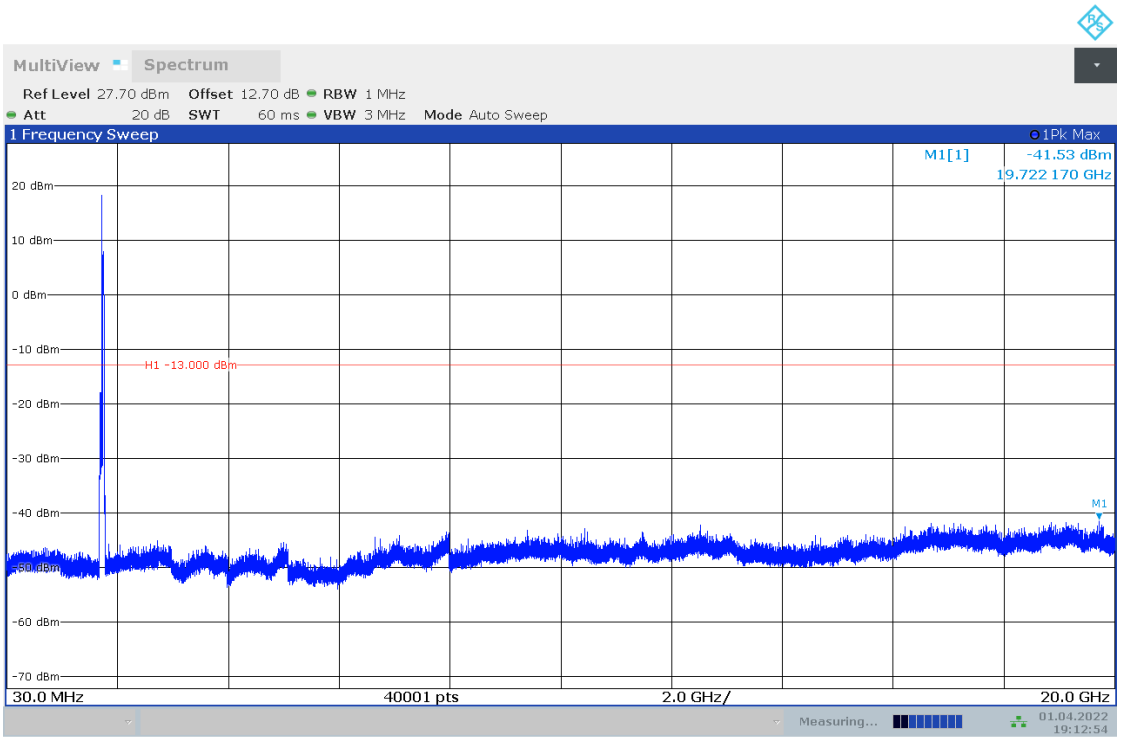
4.2.11 TM1_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



19:12:10 01.04.2022

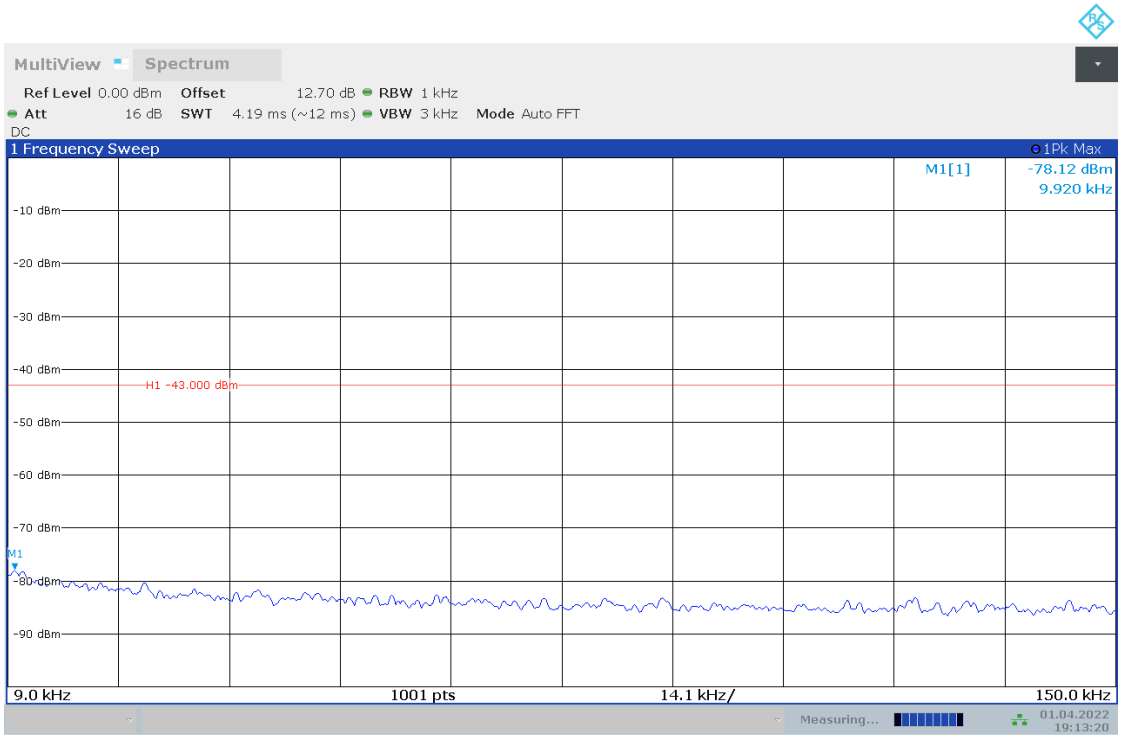


19:12:32 01.04.2022

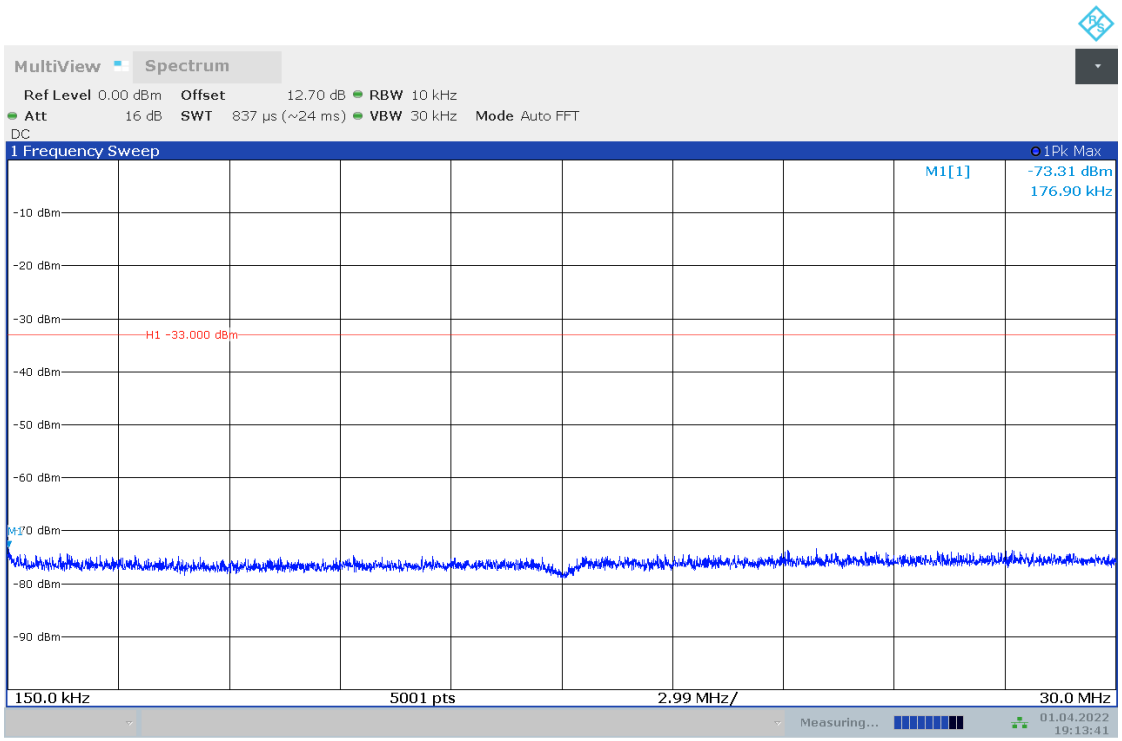


19:12:54 01.04.2022

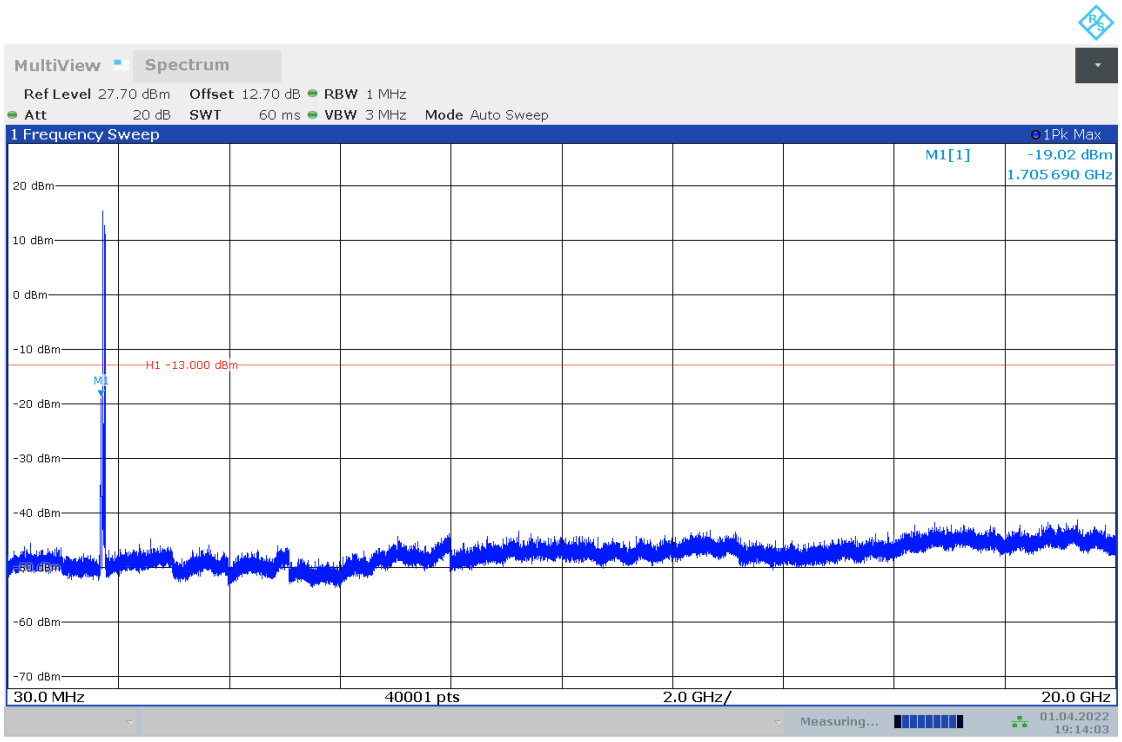
4.2.12 TM1_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



19:13:20 01.04.2022

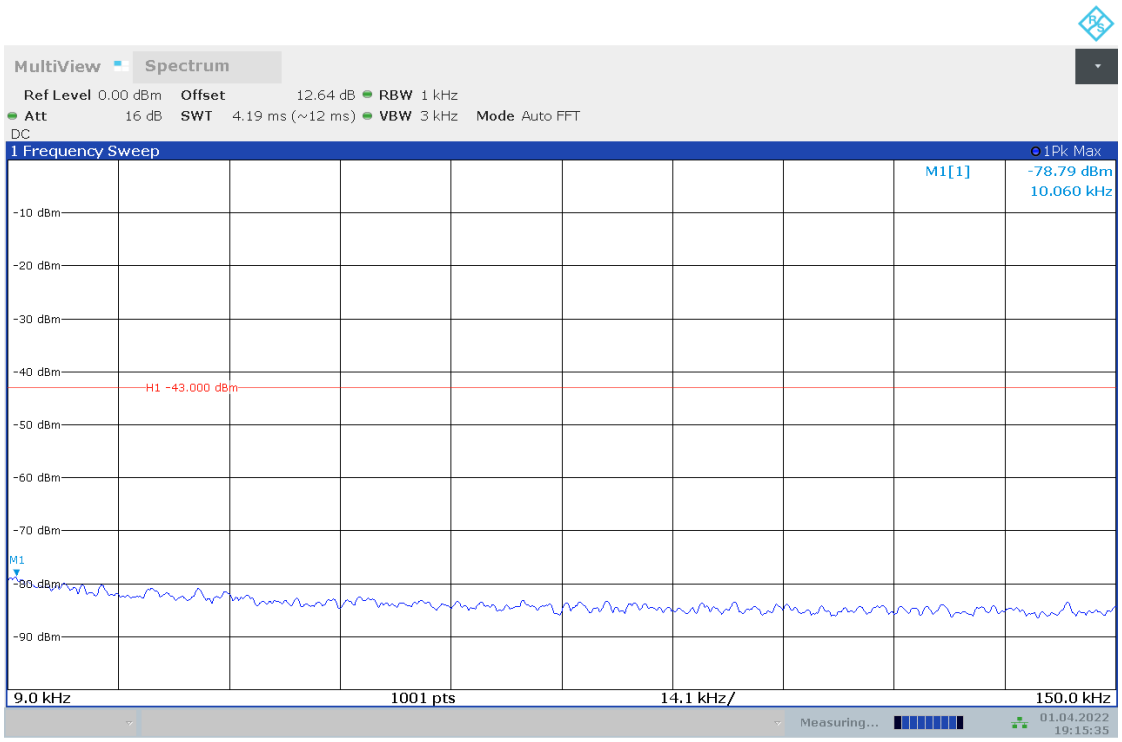


19:13:41 01.04.2022

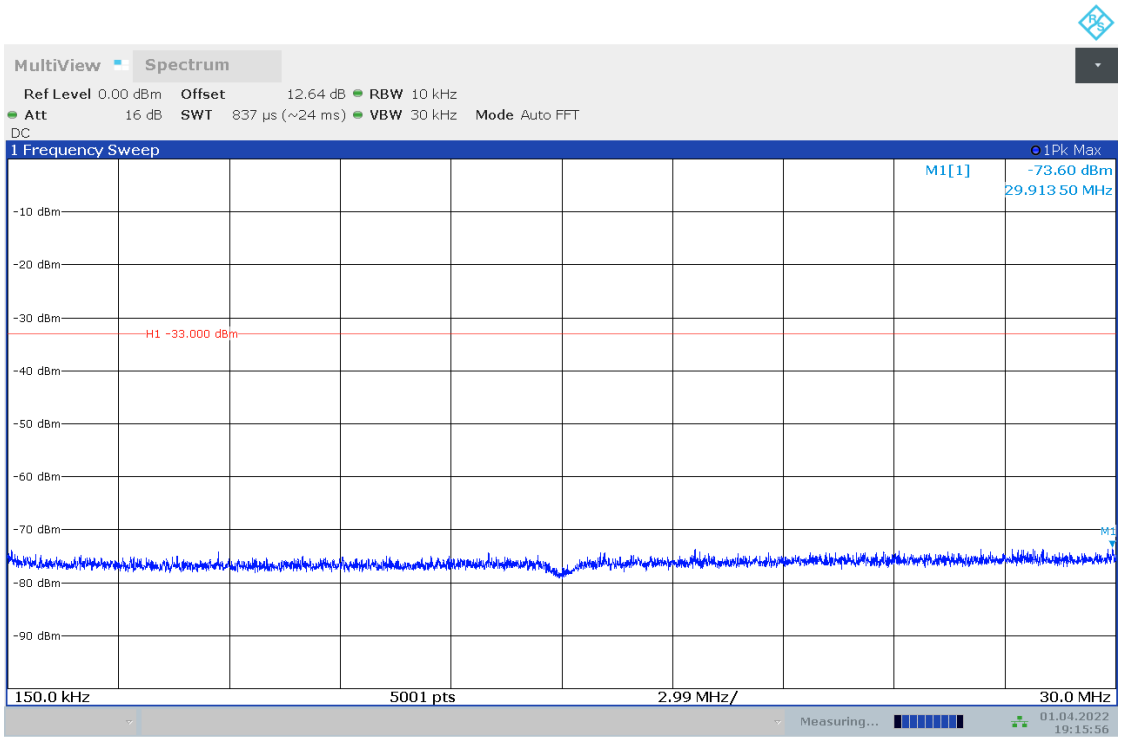


19:14:03 01.04.2022

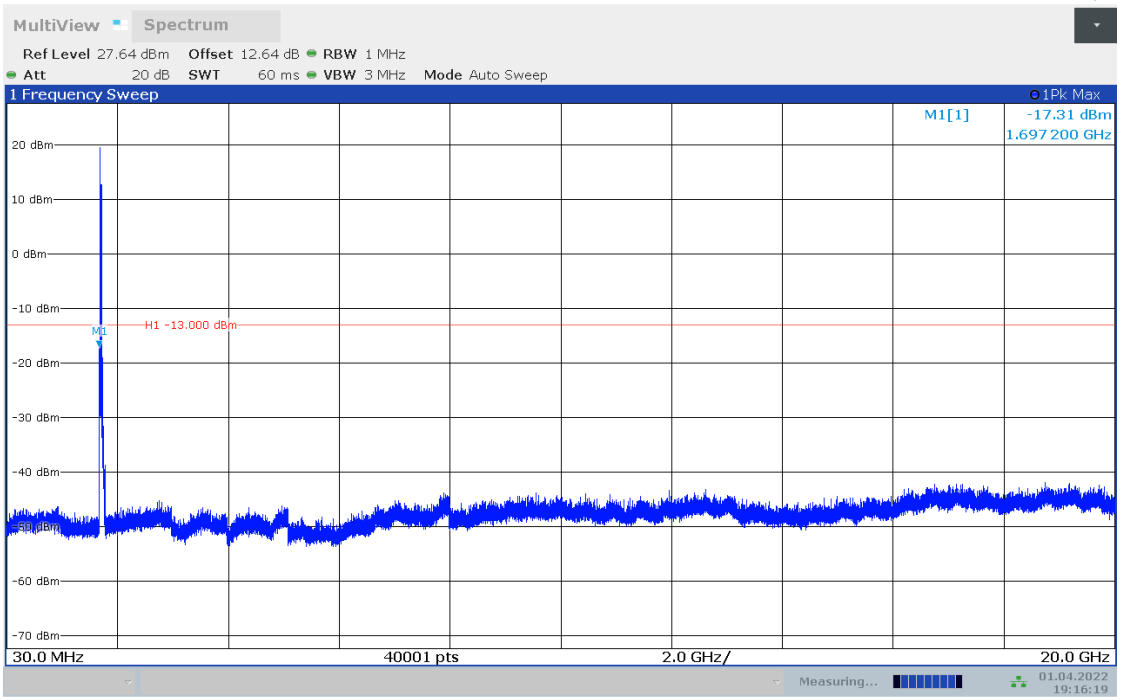
4.2.13 TM2_LCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



19:15:35 01.04.2022

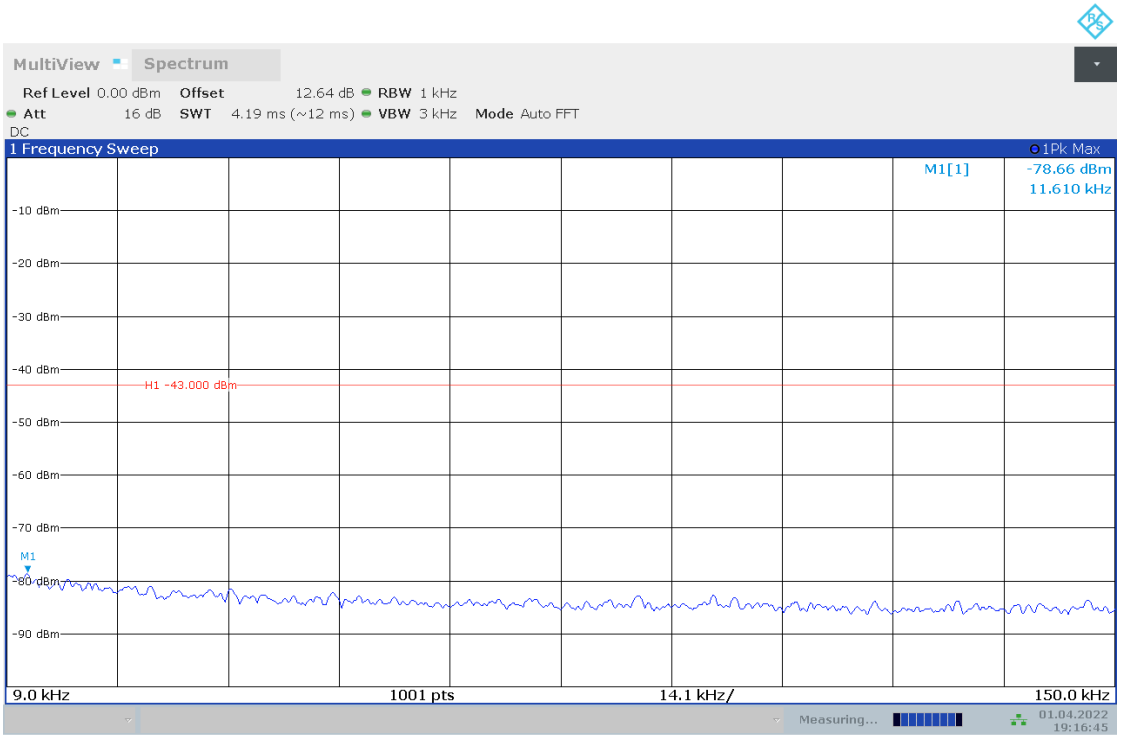


19:15:56 01.04.2022

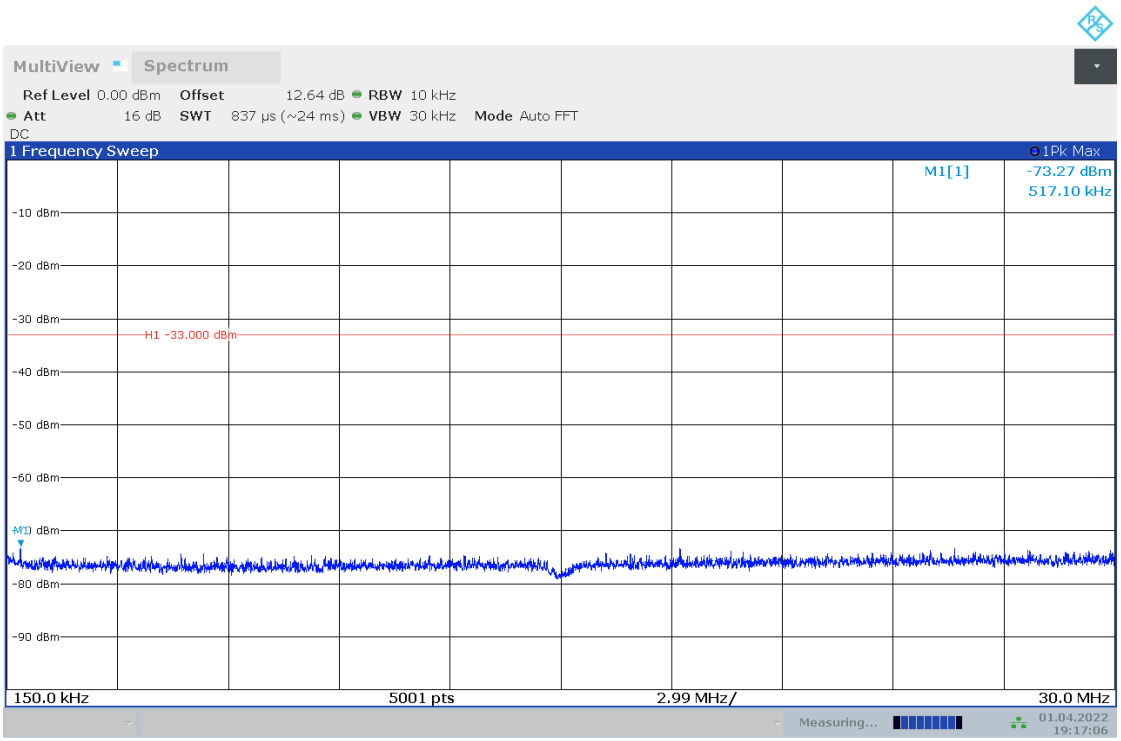


19:16:19 01.04.2022

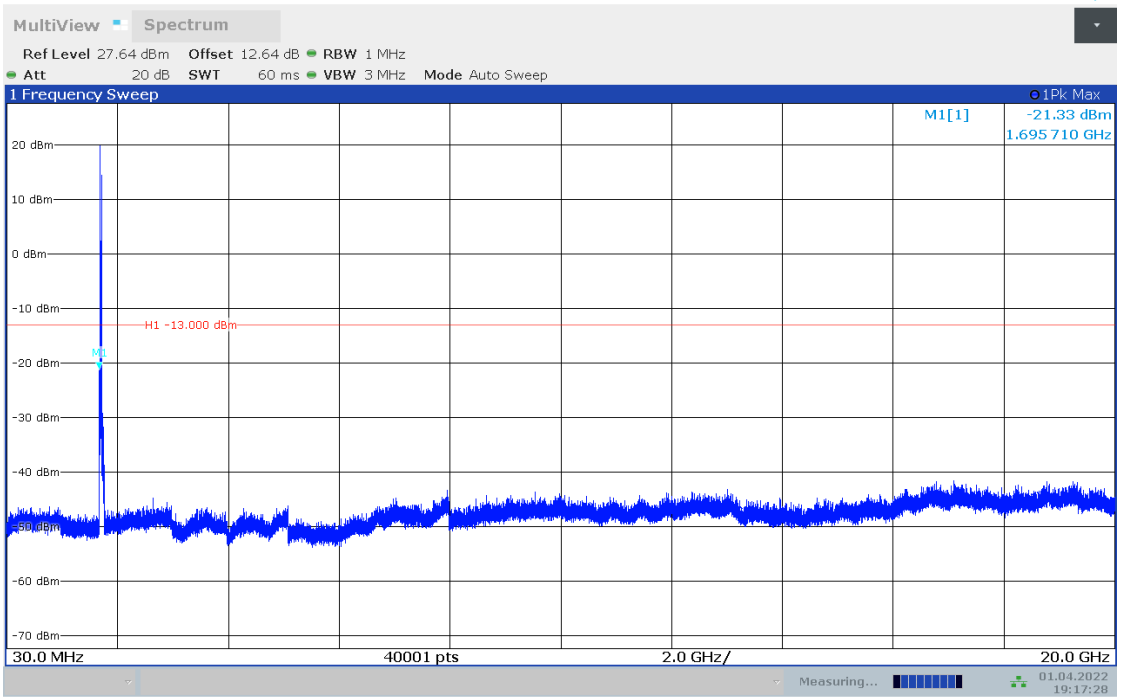
4.2.14 TM2_LCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



19:16:45 01.04.2022



19:17:06 01.04.2022



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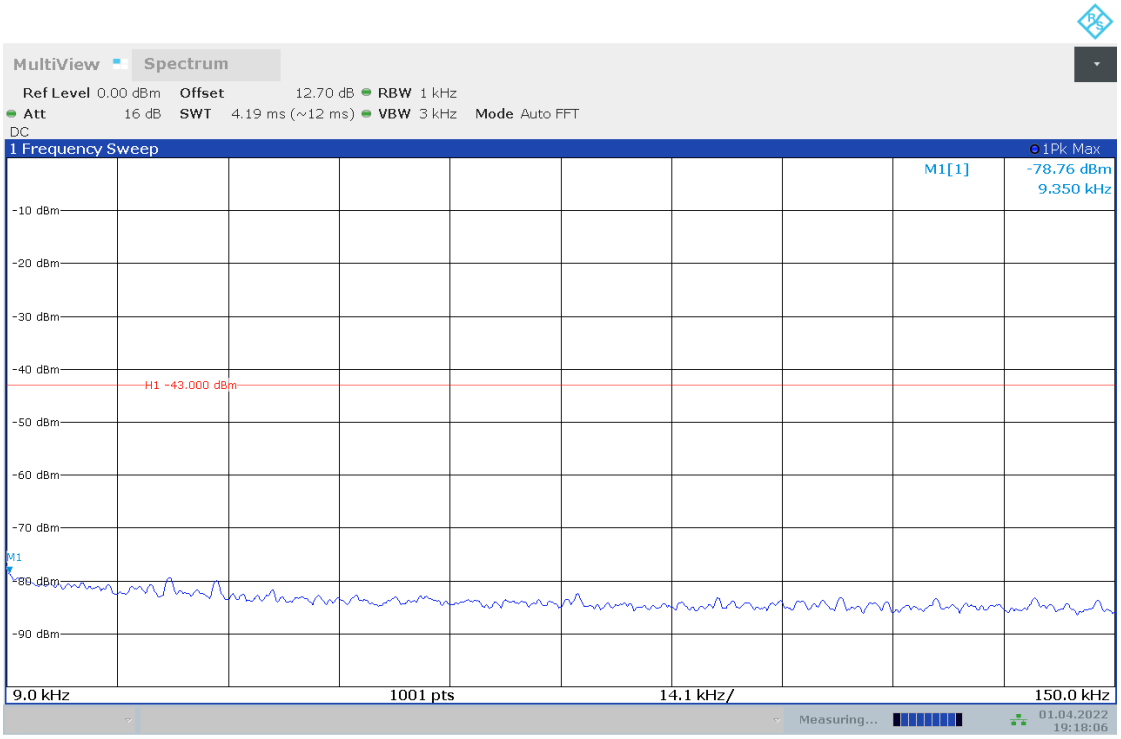
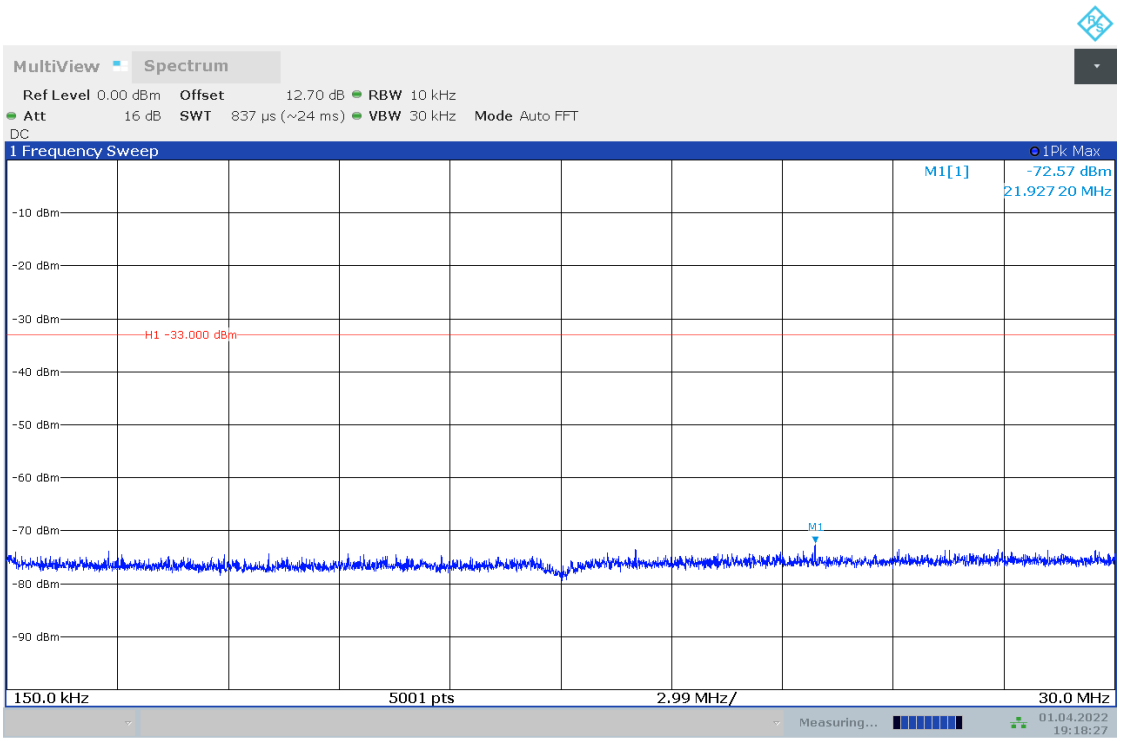
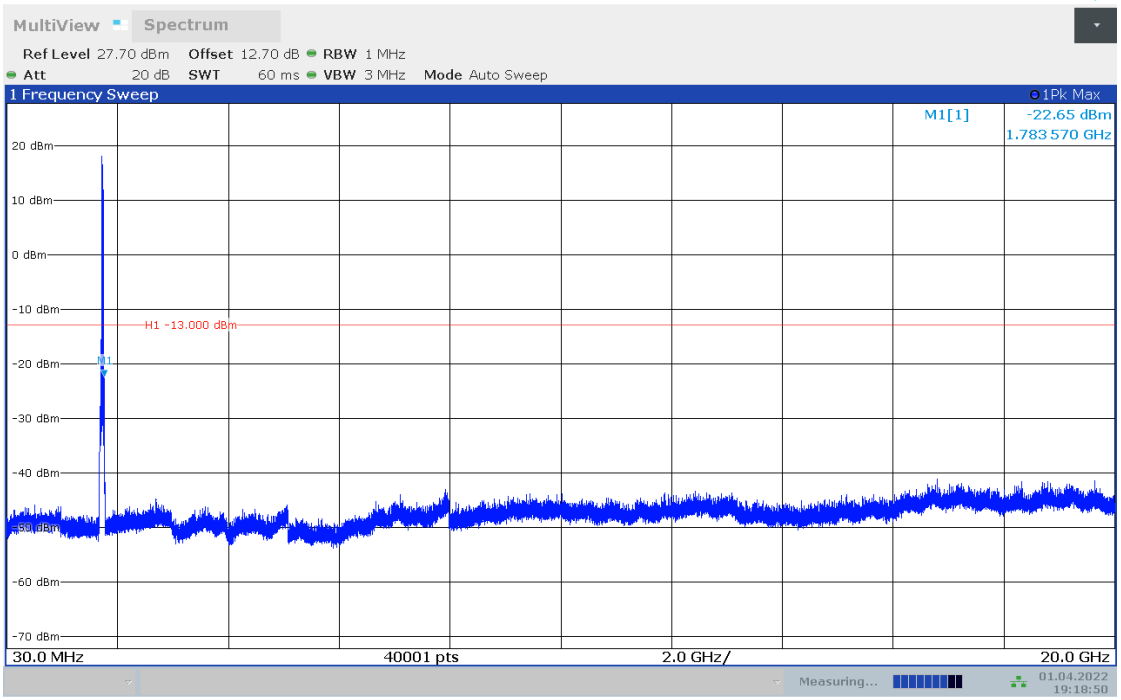
4.2.15 TM2_MCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



19:18:06 01.04.2022



19:18:27 01.04.2022



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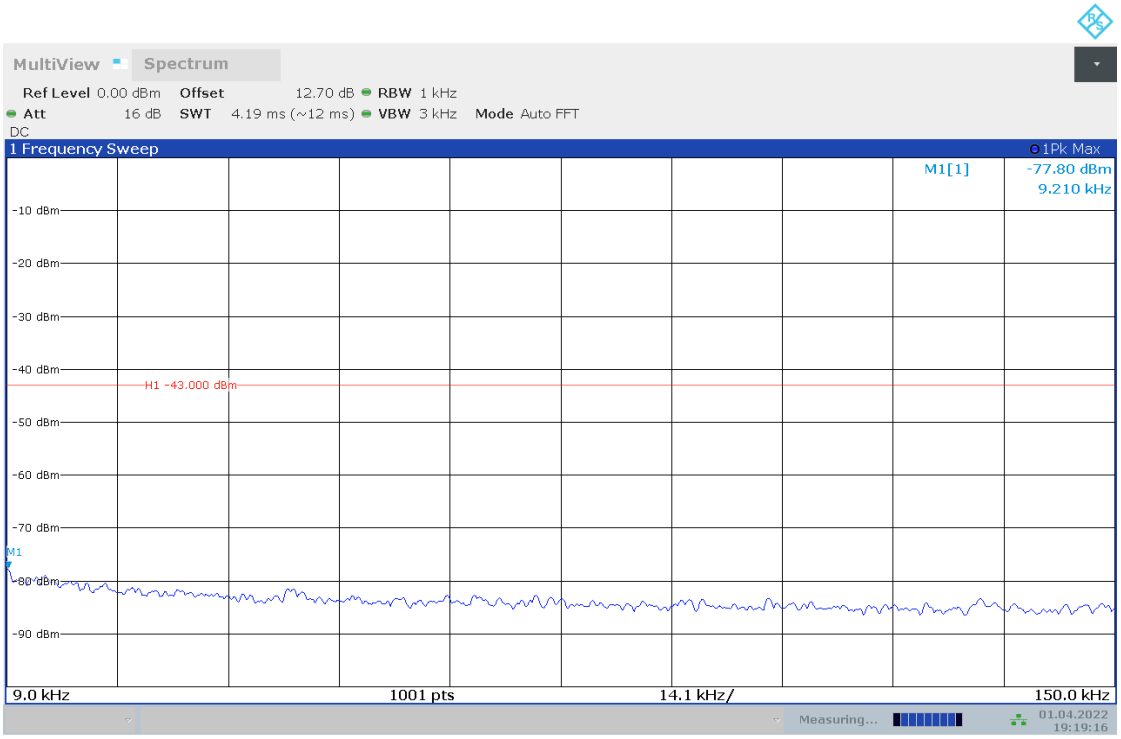
4.2.16 TM2_MCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



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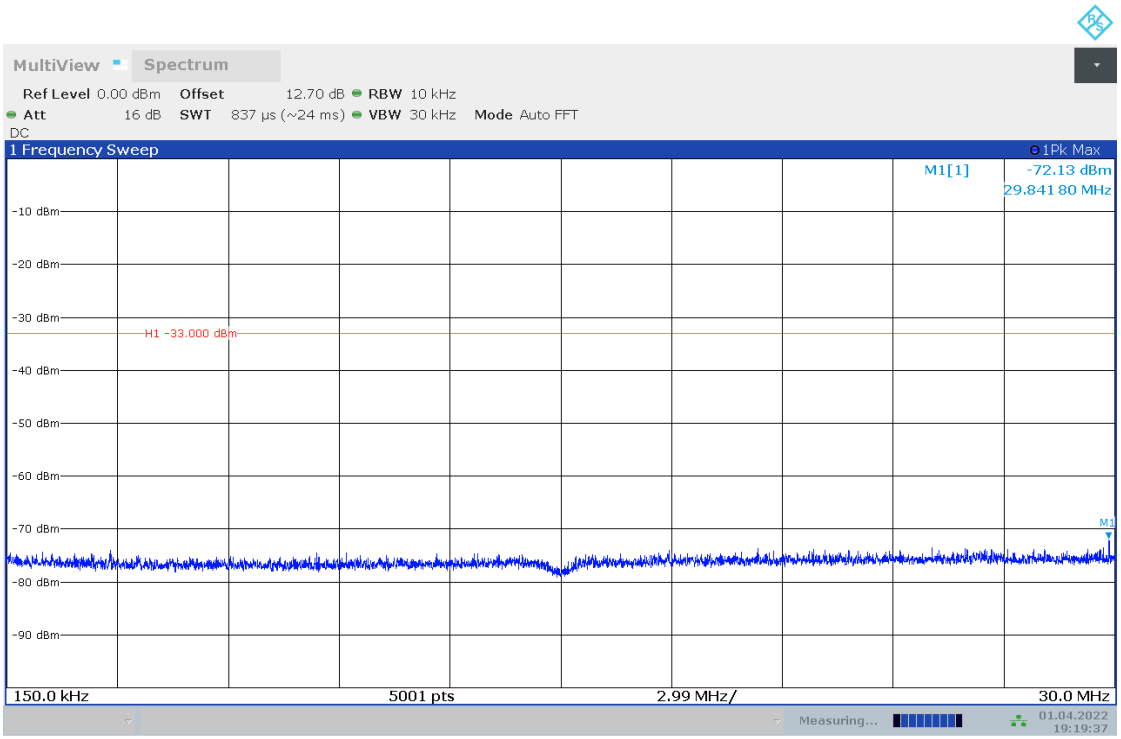
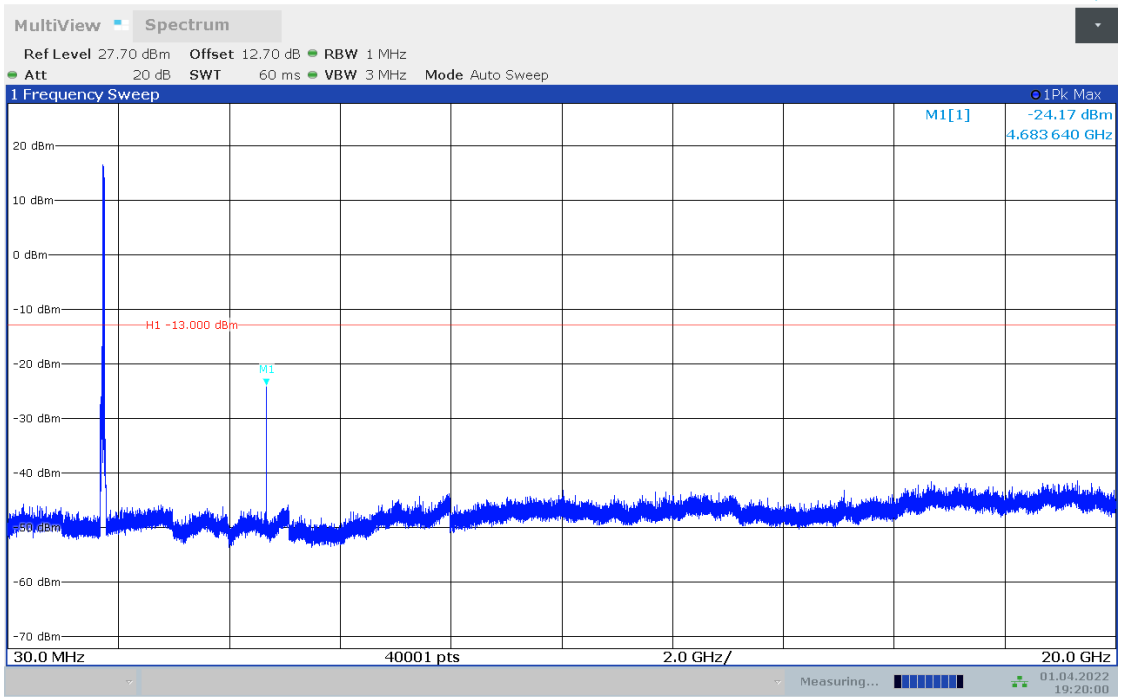
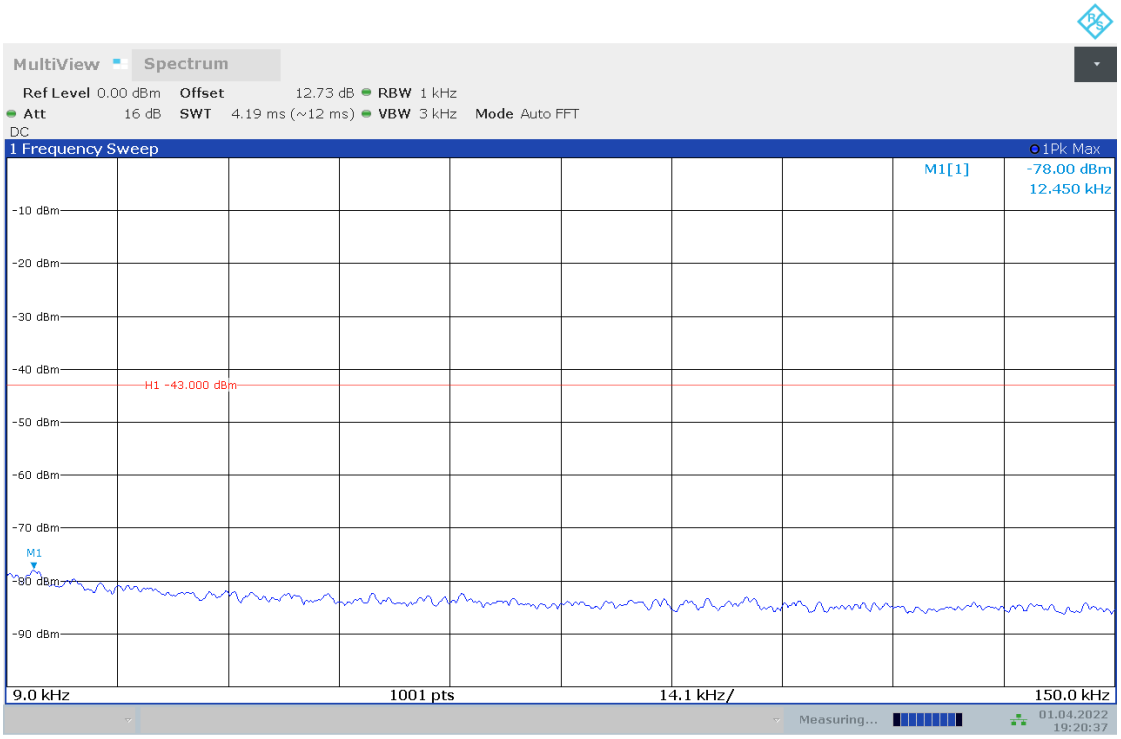


19:19:37 01.04.2022



19:20:00 01.04.2022

4.2.17 TM2_HCH_20MHZ+5MHZ_PCCRB100#0_SCCRB25#0



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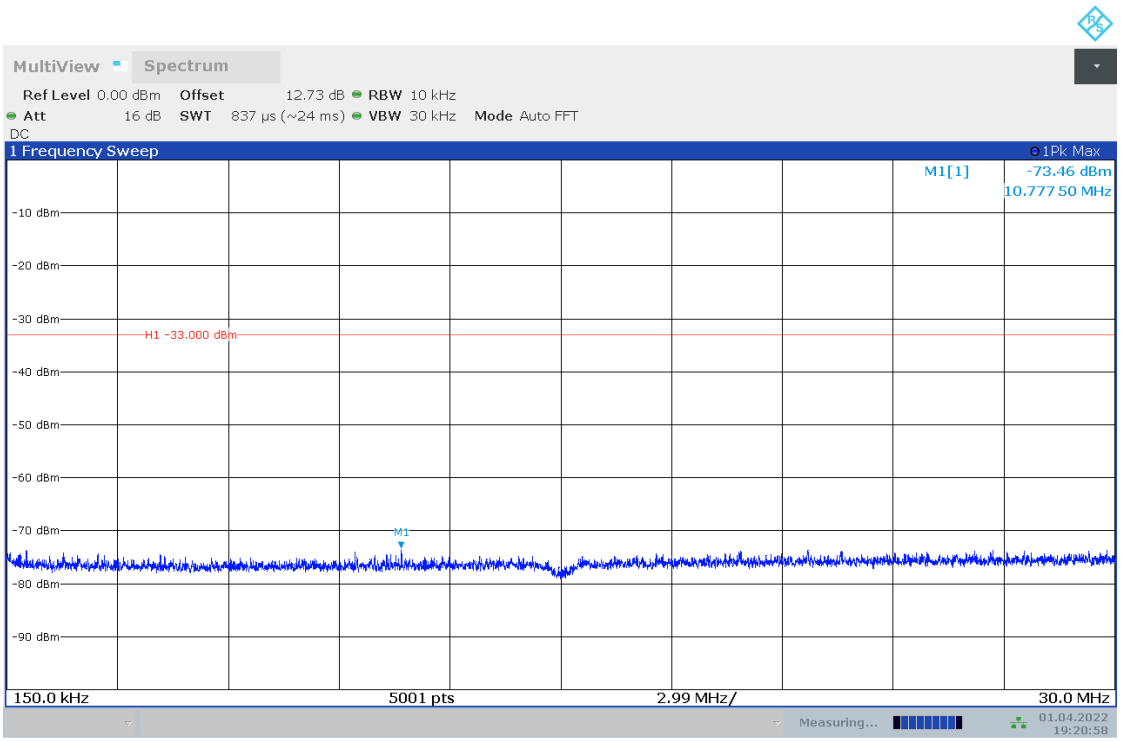
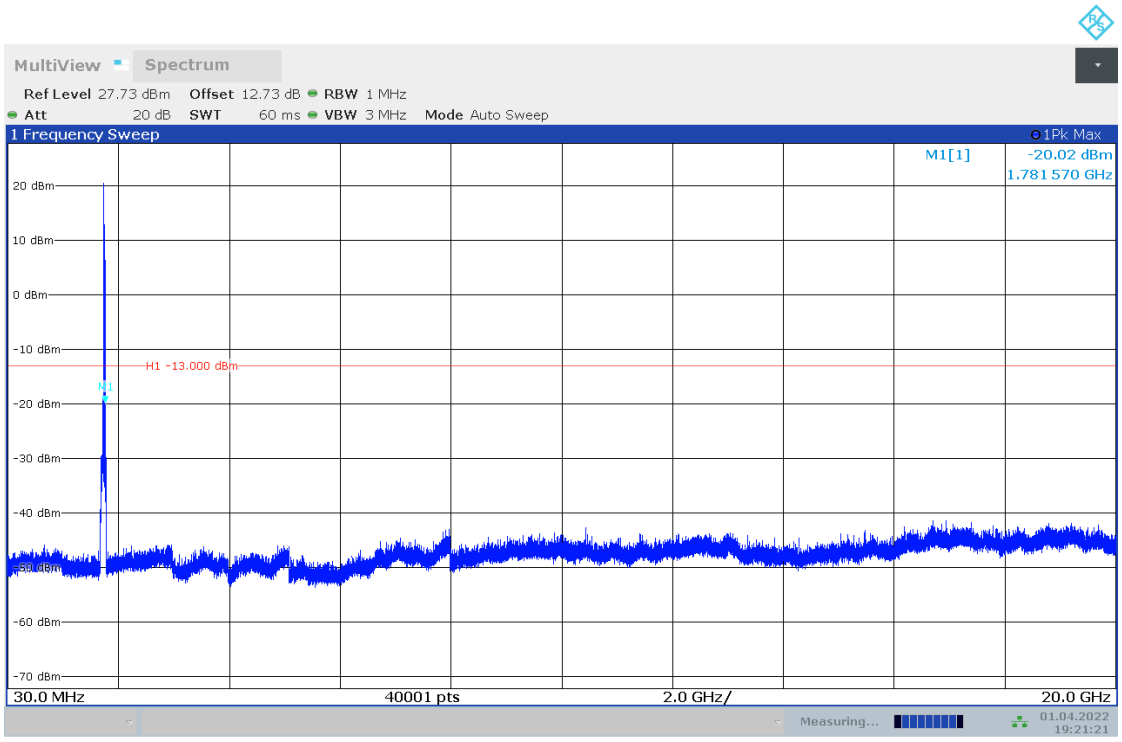


19:20:59 01.04.2022



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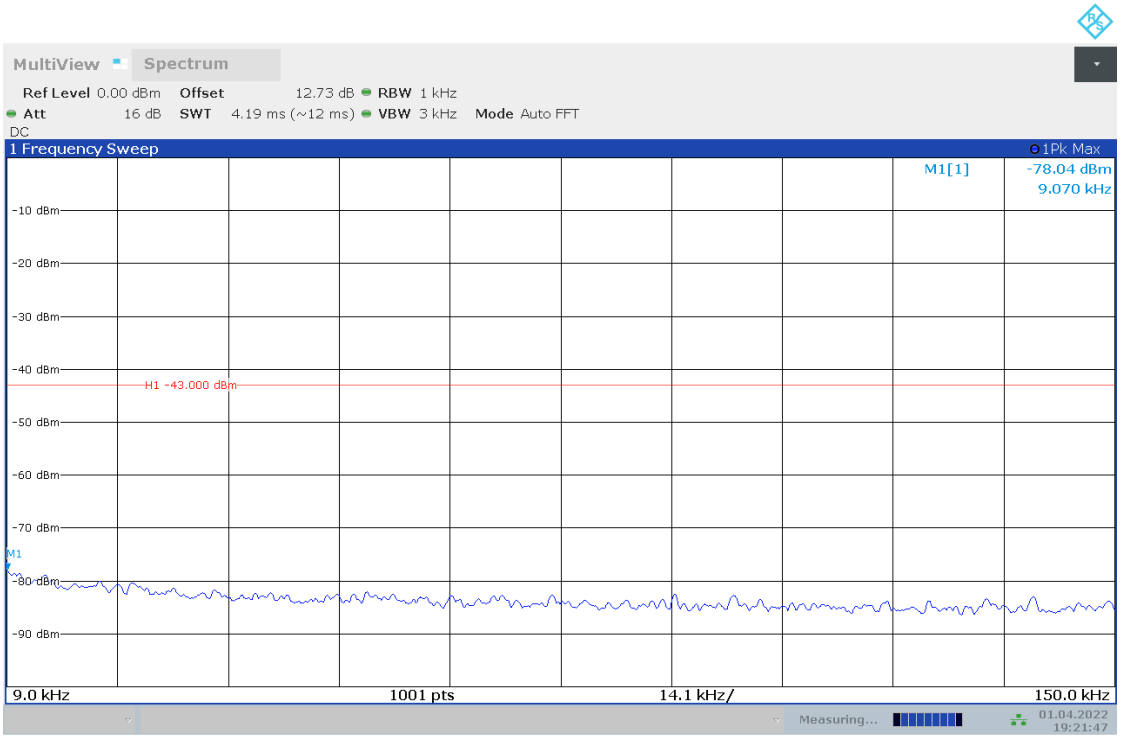
4.2.18 TM2_HCH_20MHZ+5MHZ_PCCRB1#0_SCCRB1#24



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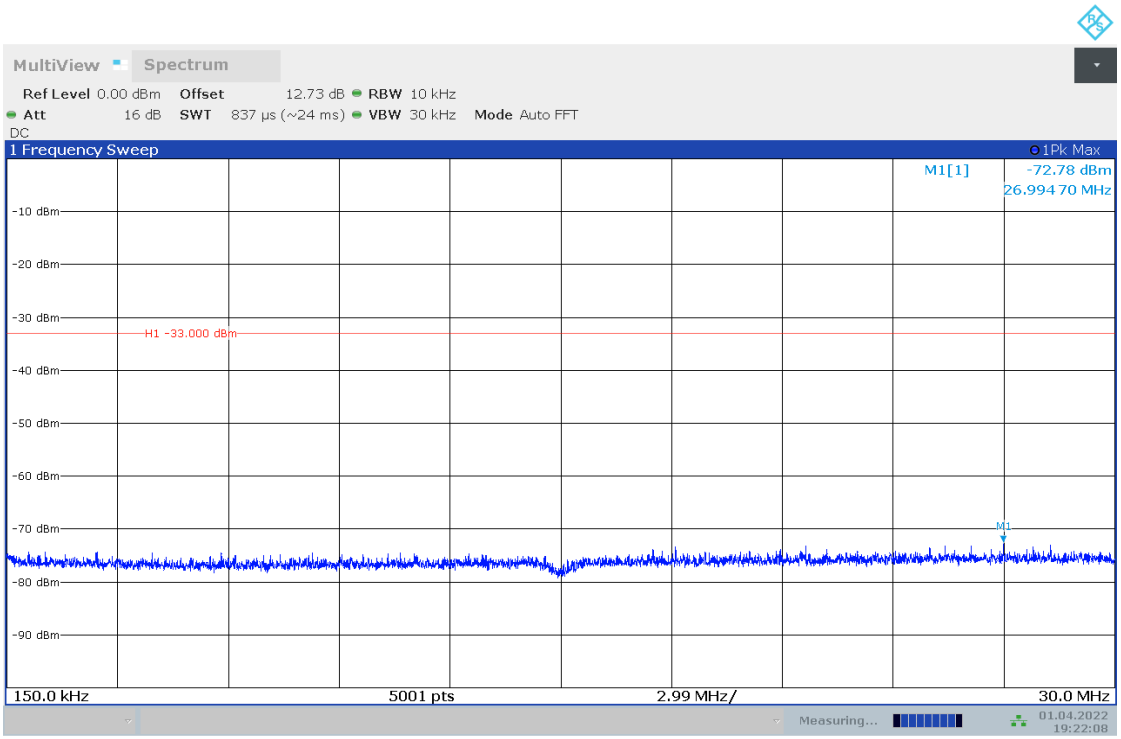

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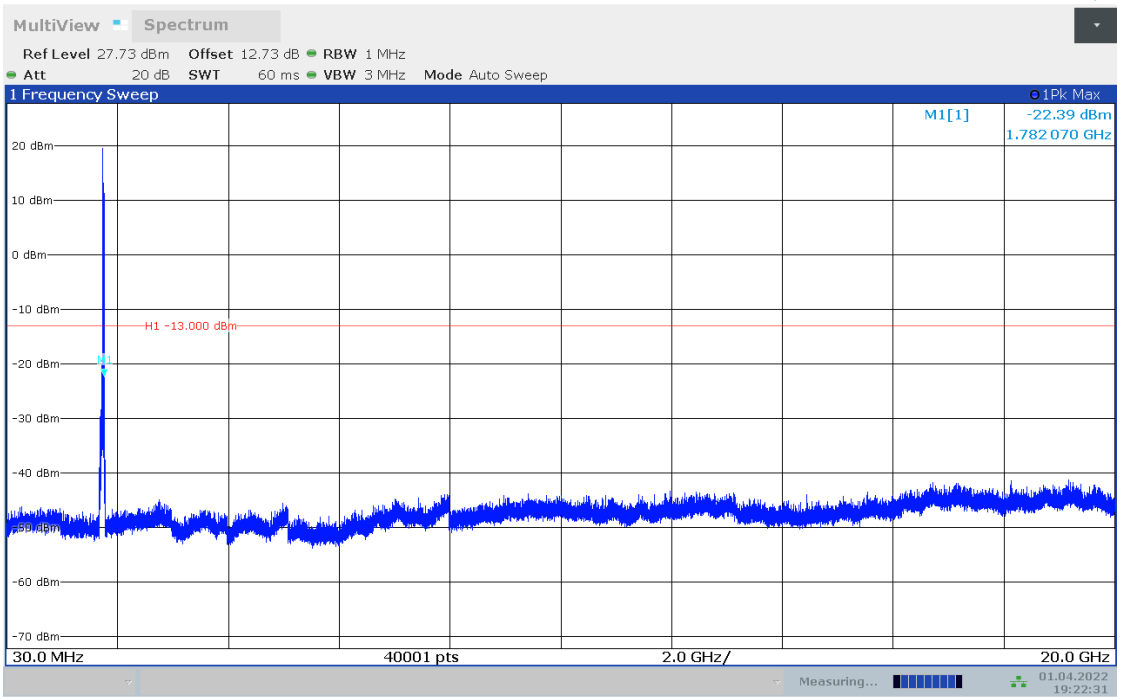

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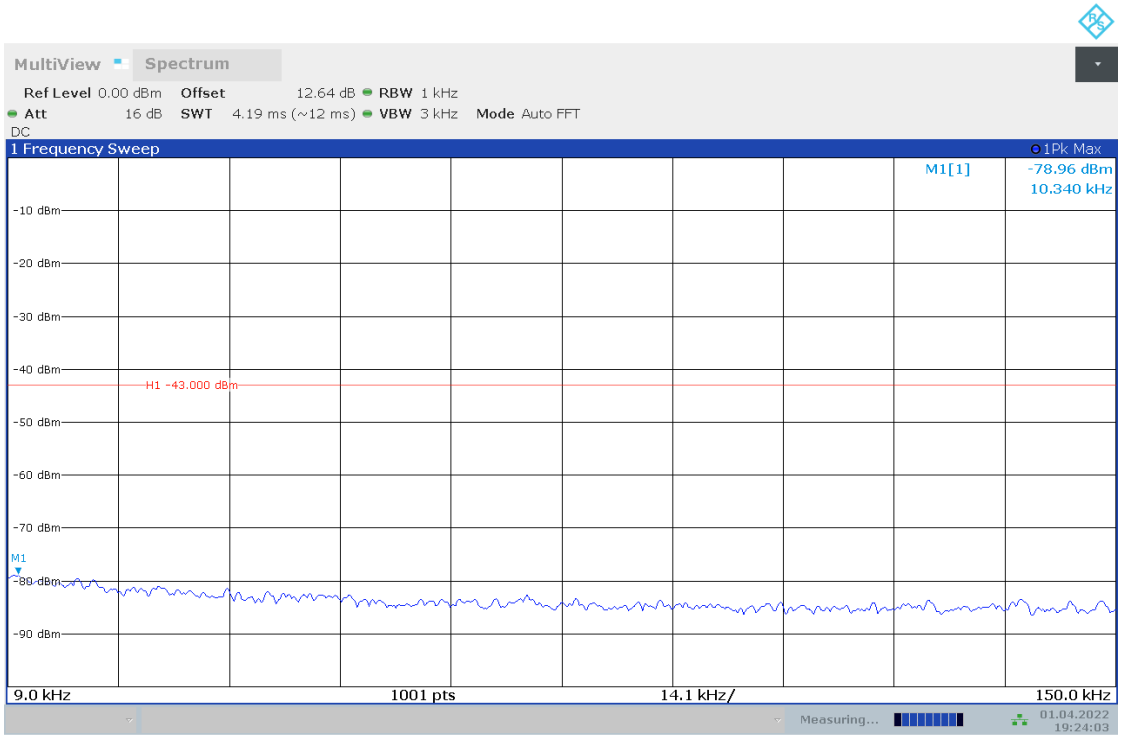
4.2.19 TM2_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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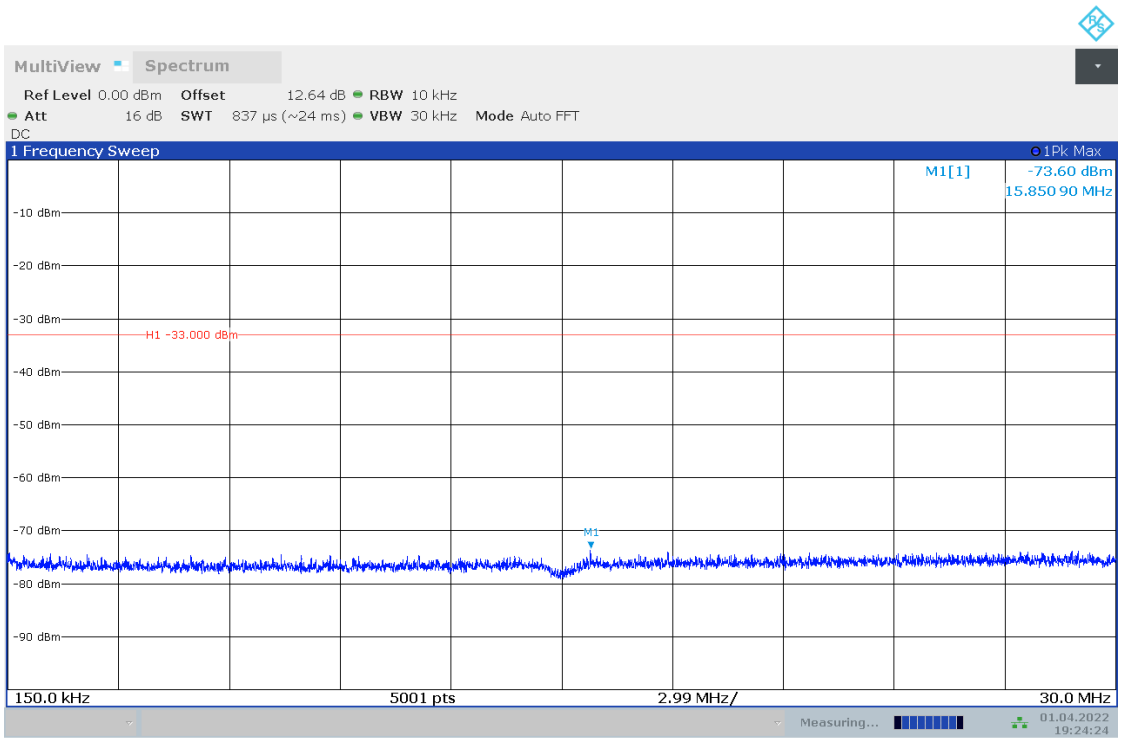

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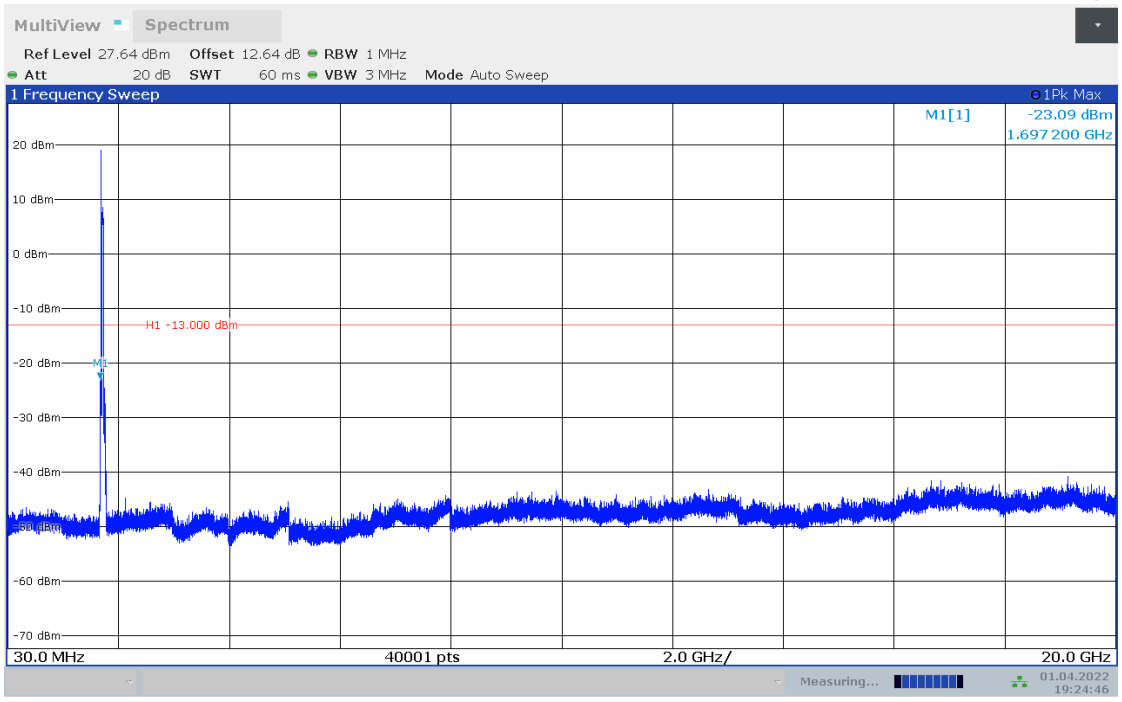

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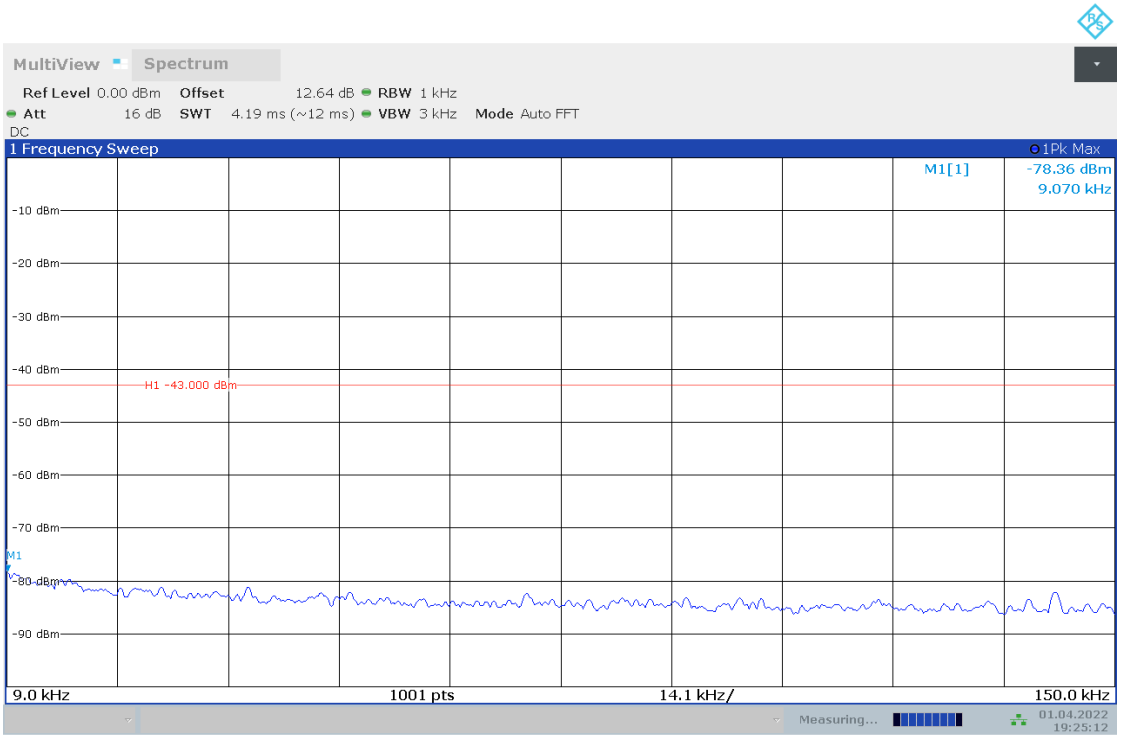
4.2.20 TM2_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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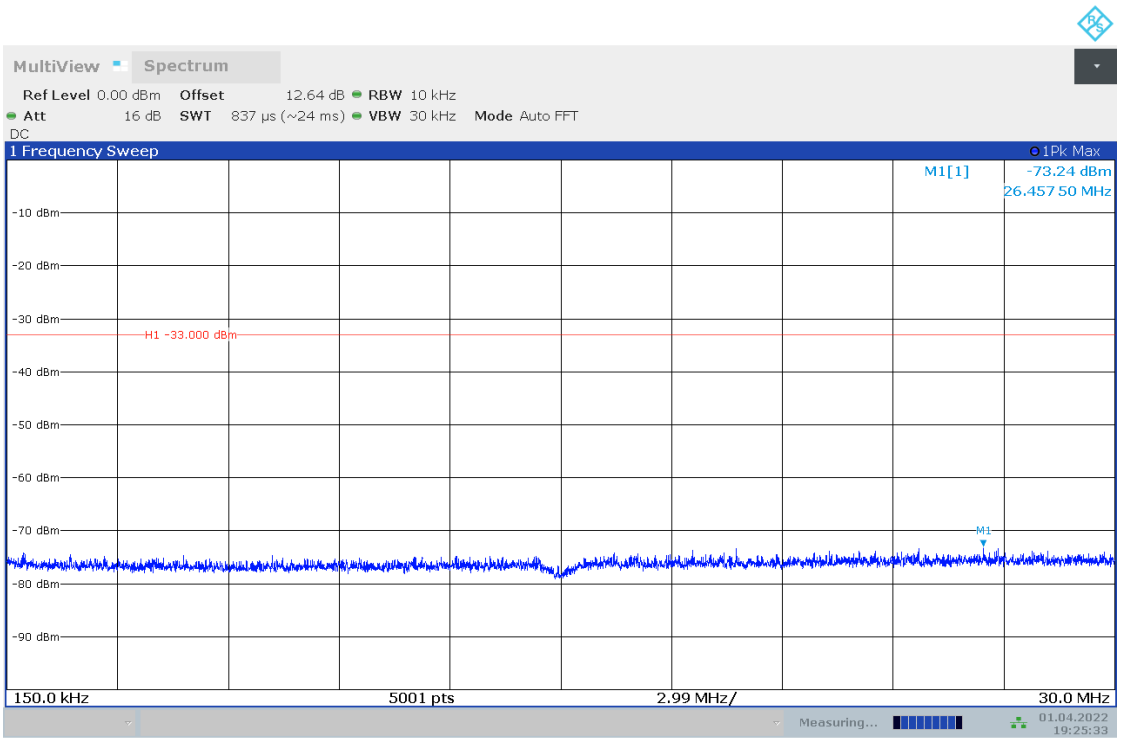

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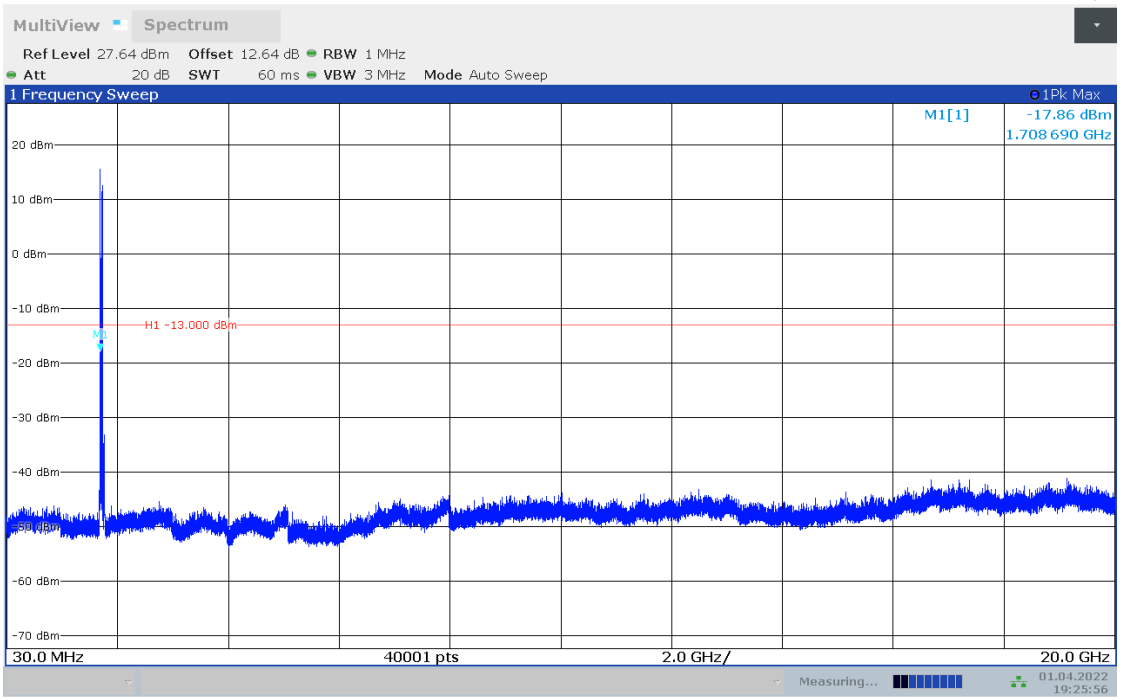

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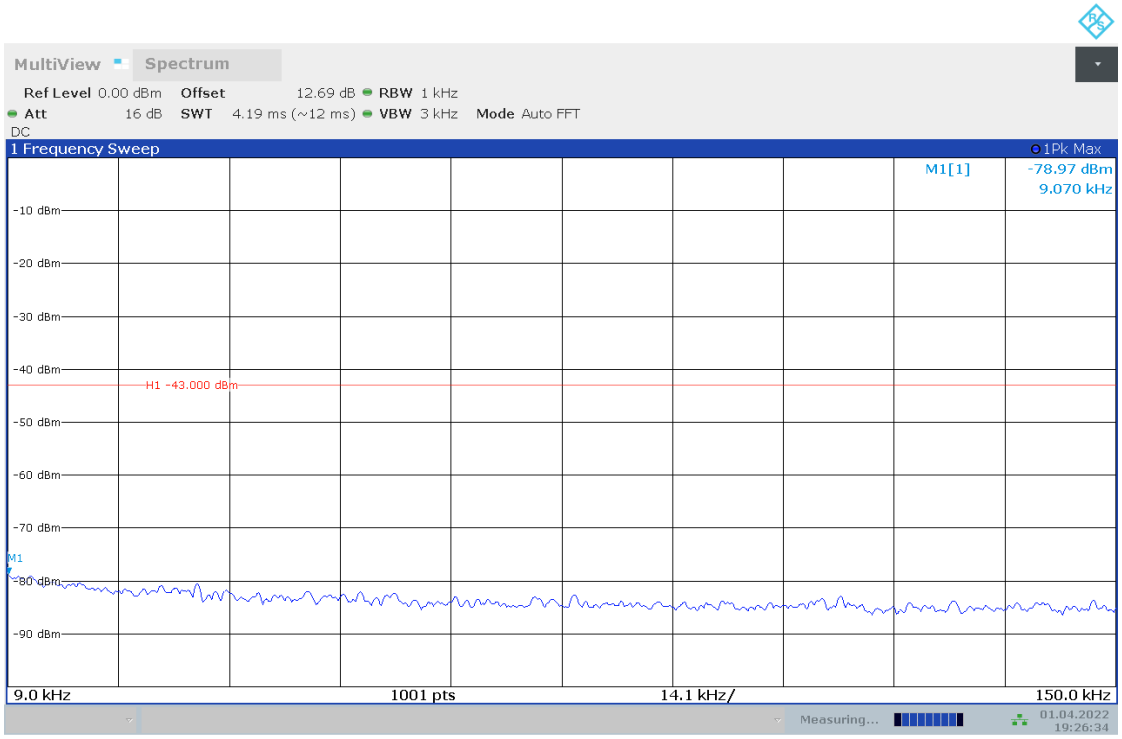
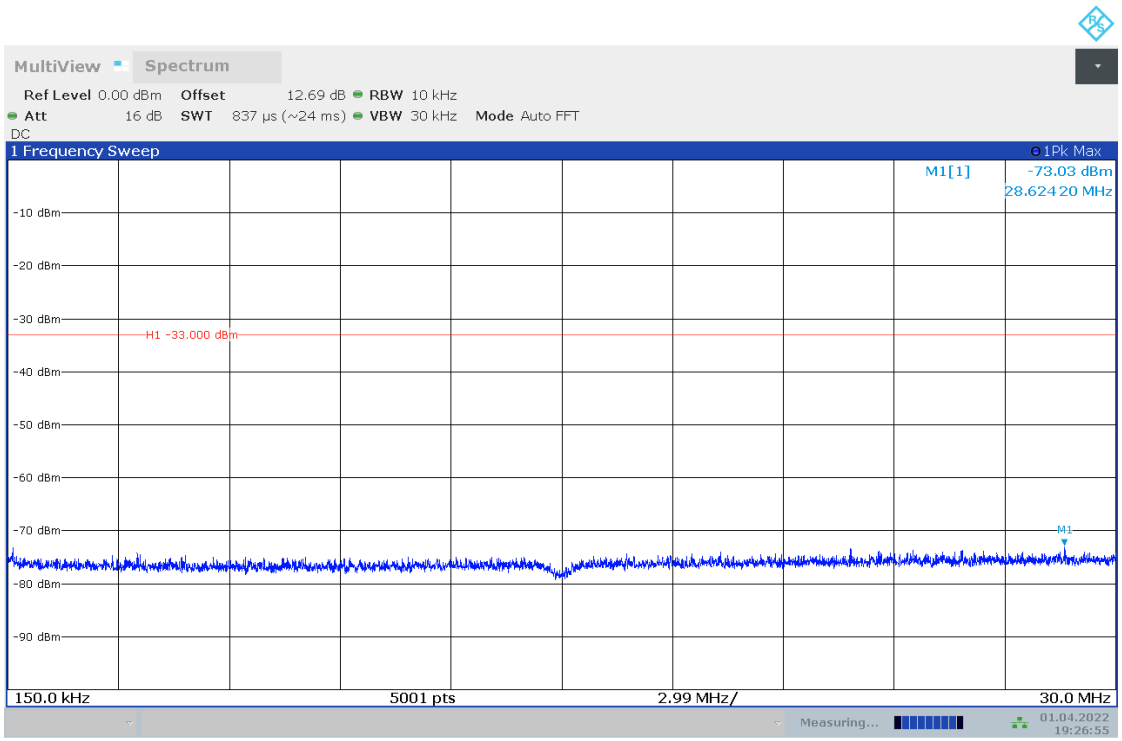
4.2.21 TM2_MCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



19:26:34 01.04.2022



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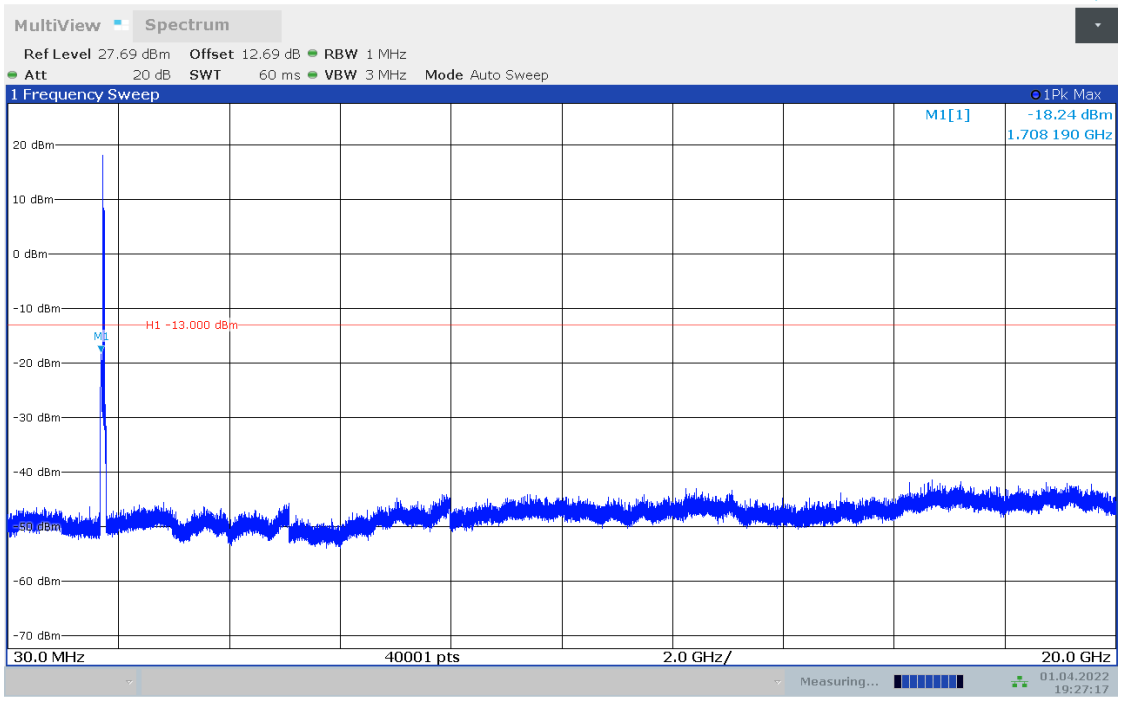

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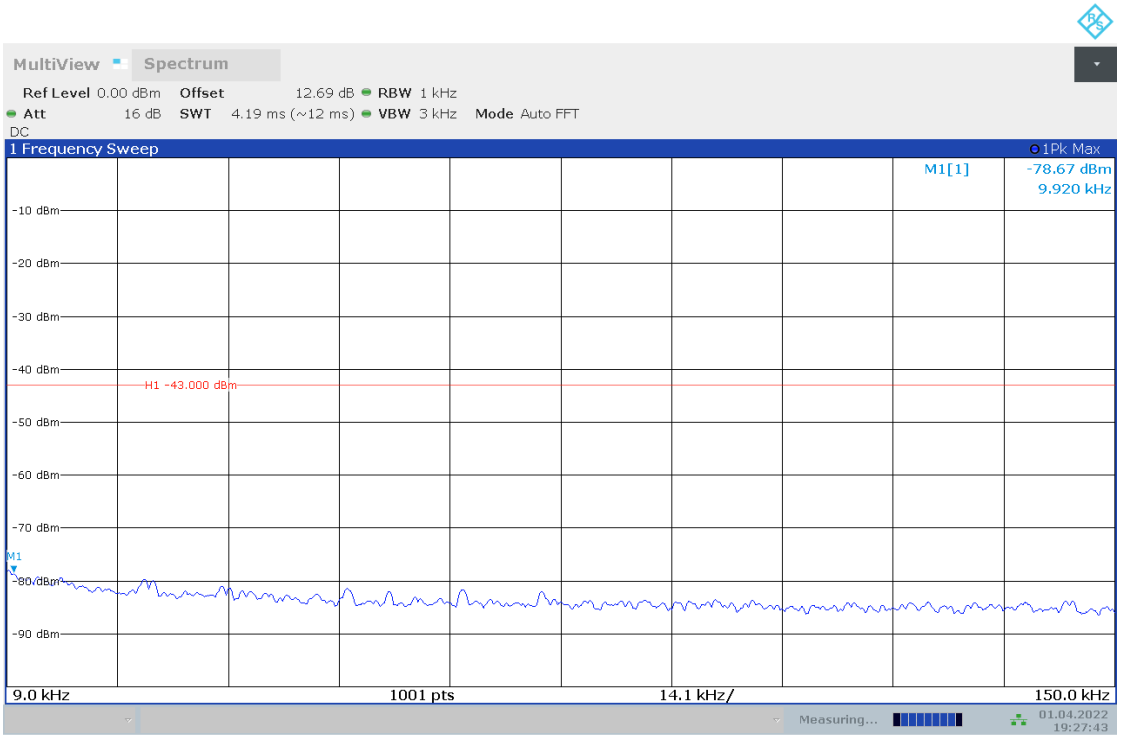
4.2.22 TM2_MCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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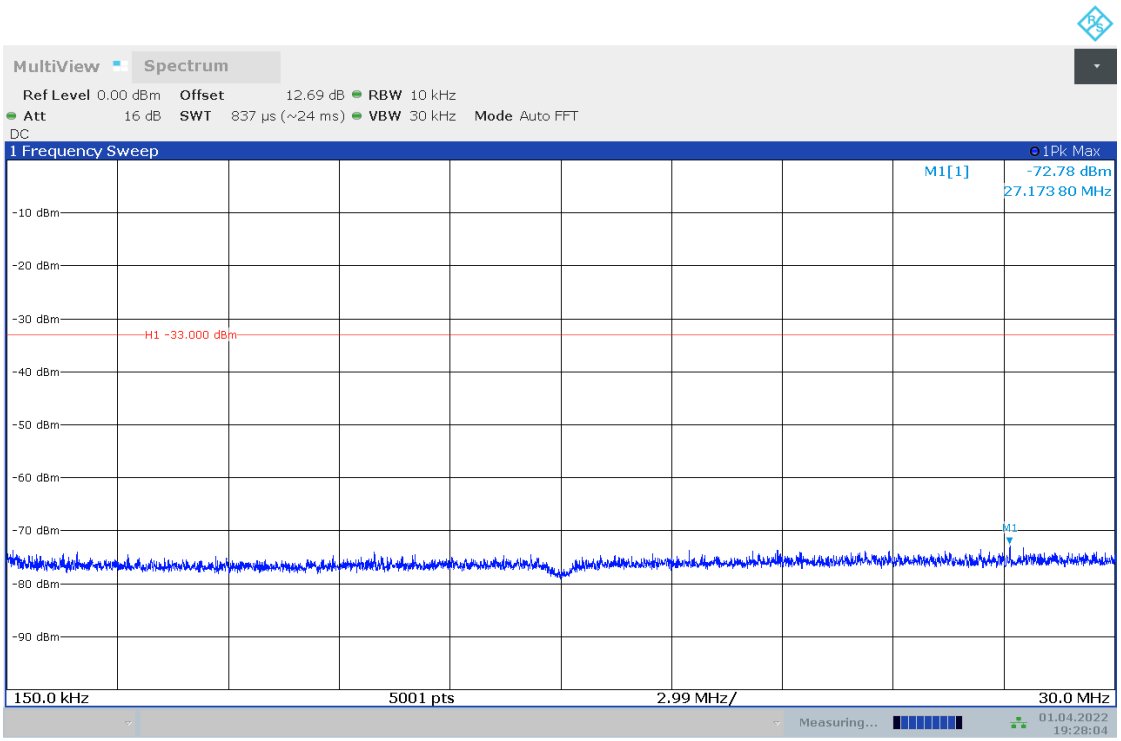

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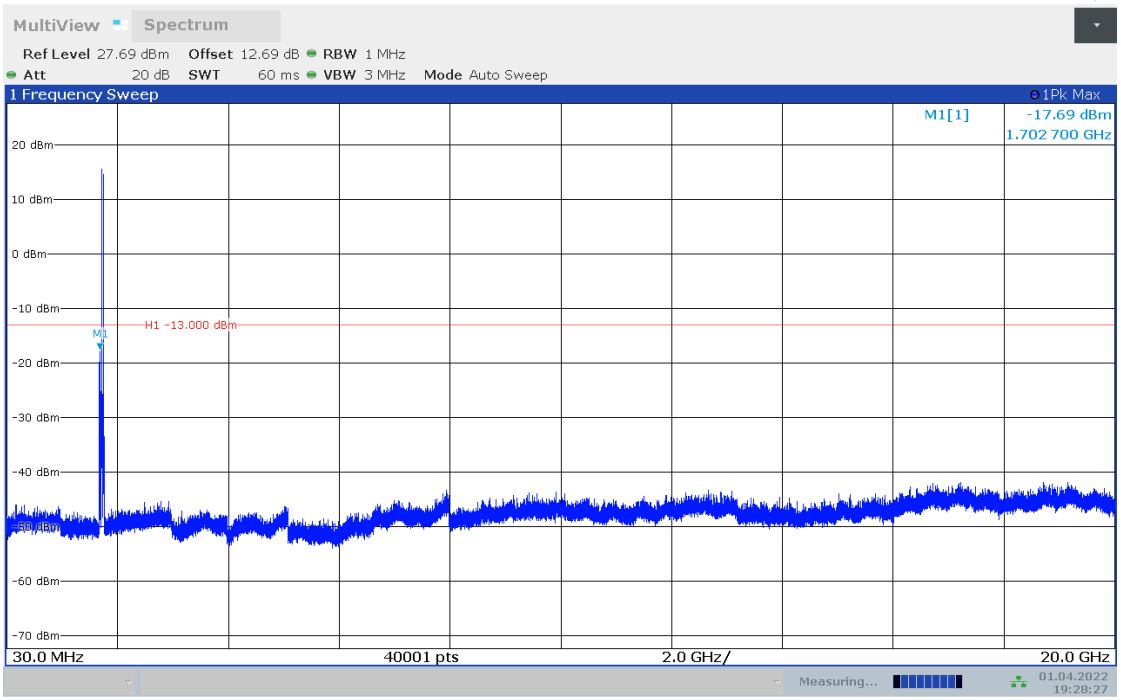

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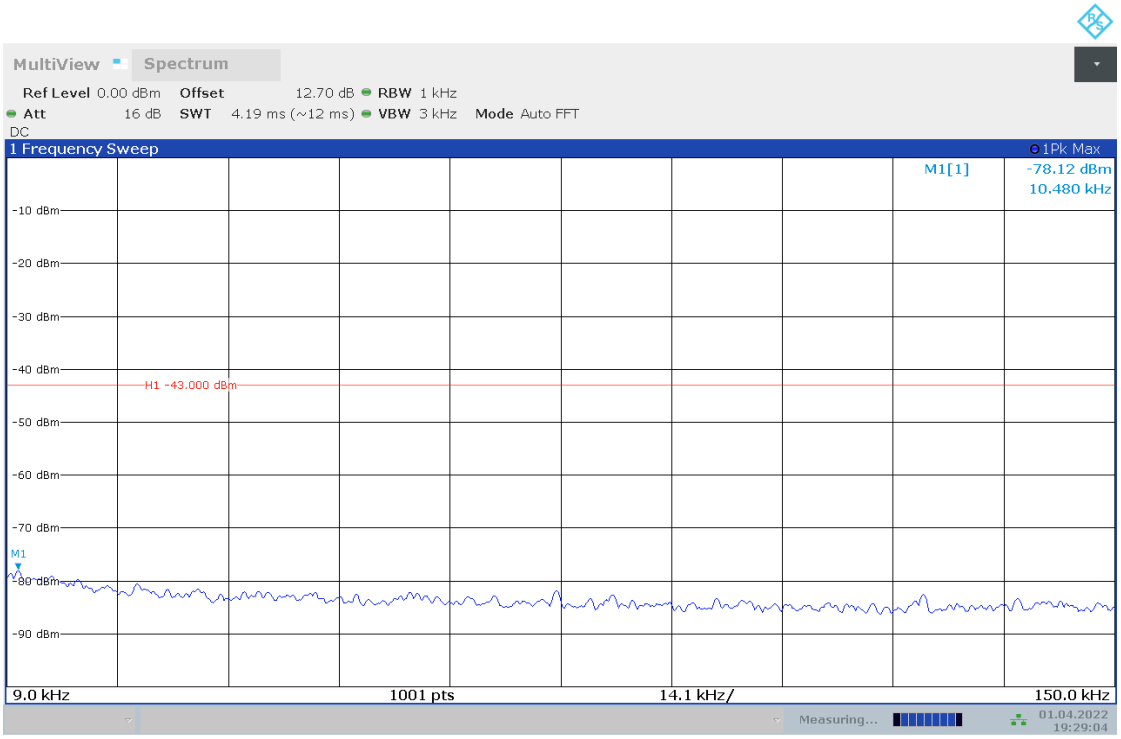
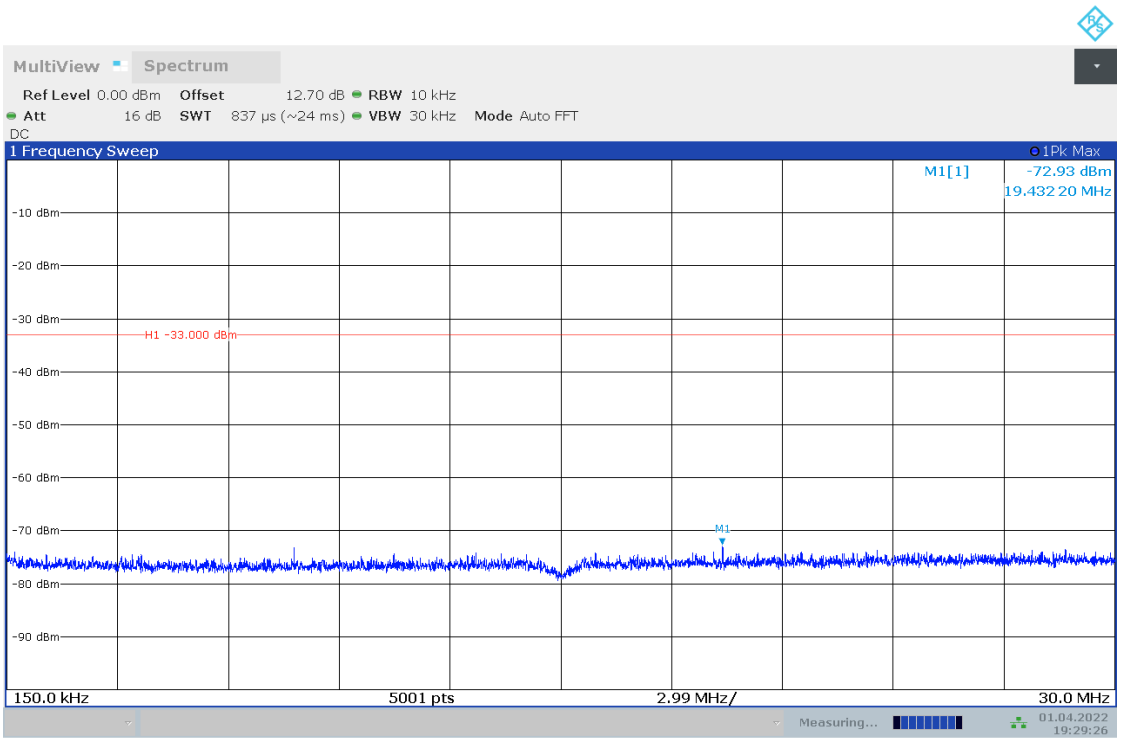
4.2.23 TM2_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



19:29:05 01.04.2022



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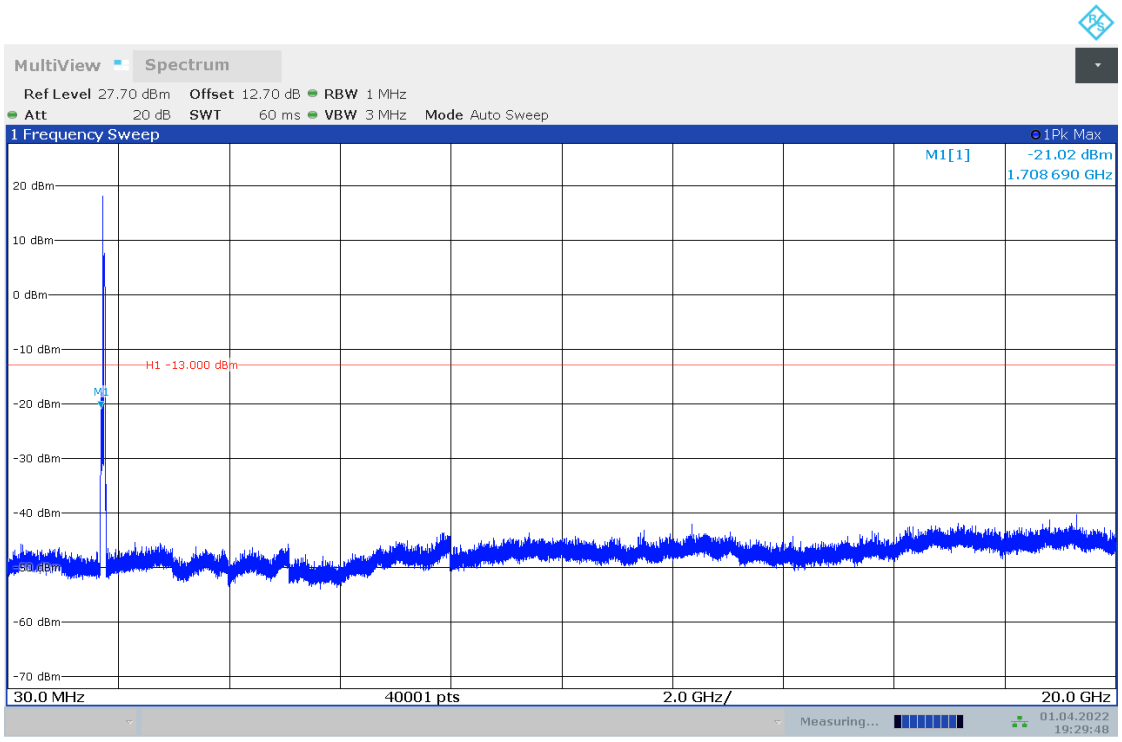

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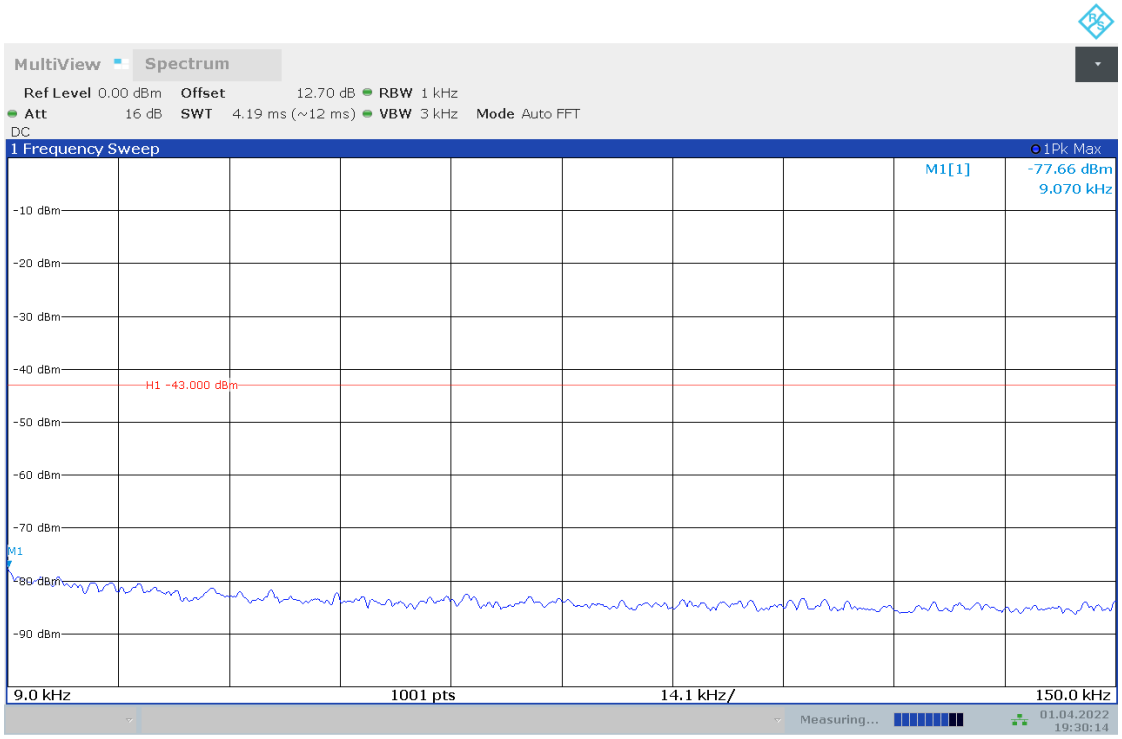
4.2.24 TM2_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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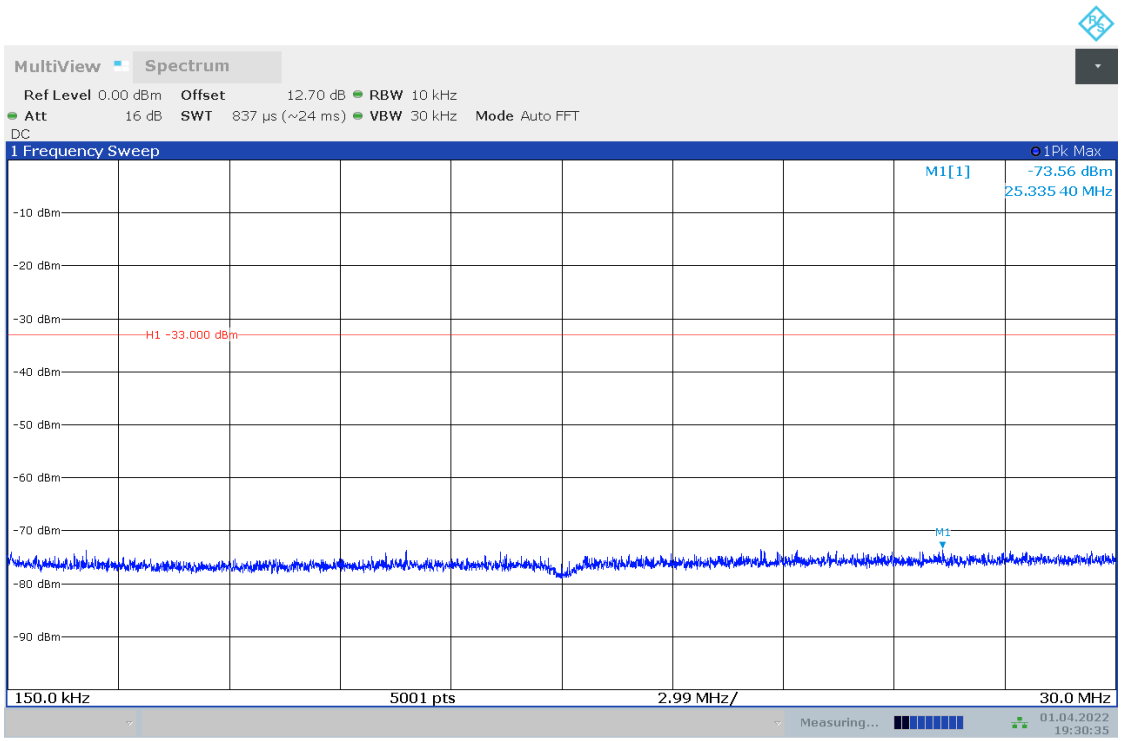

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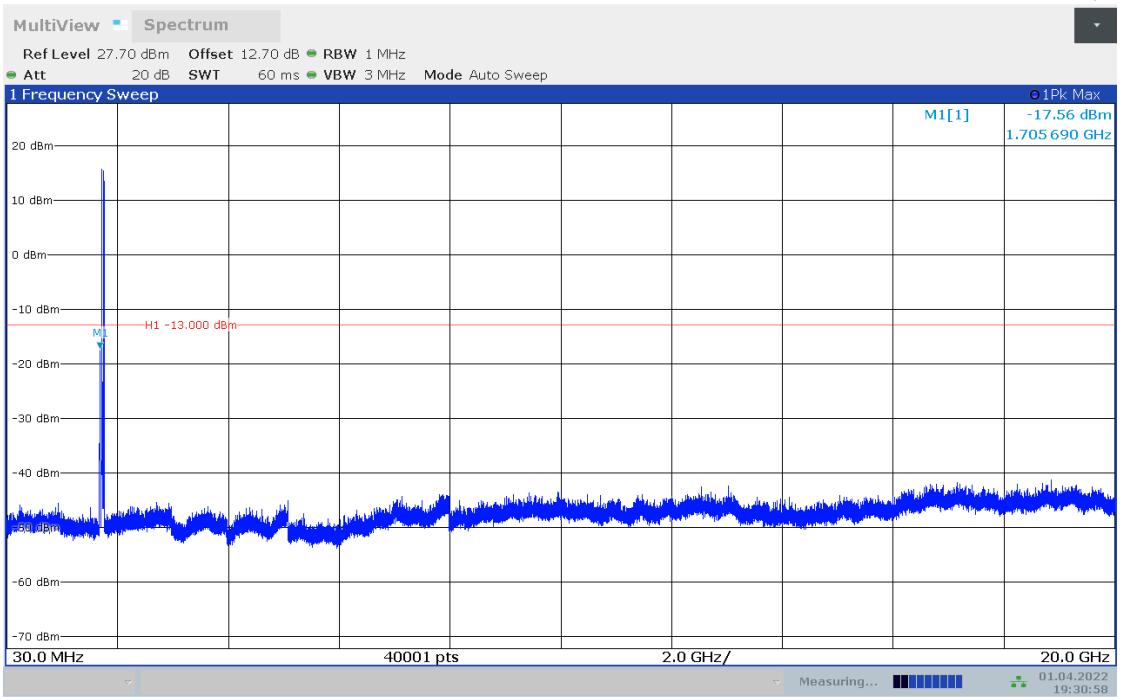

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End of Test Report