Appendix for LTE CA_38C

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	15+15	LCH	RB75#0	RB75#0	QPSK	21.50	-2.1	19.40	33	PASS
			RB1#0	RB1#74	QPSK	19.45	-2.1	17.35	33	PASS
		MCH	RB75#0	RB75#0	QPSK	21.47	-2.1	19.37	33	PASS
			RB1#0	RB1#74	QPSK	19.38	-2.1	17.28	33	PASS
		HCH	RB75#0	RB75#0	QPSK	21.41	-2.1	19.31	33	PASS
			RB1#0	RB1#74	QPSK	19.44	-2.1	17.34	33	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	21.41	-2.1	19.31	33	PASS
			RB1#0	RB1#99	QPSK	18.88	-2.1	16.78	33	PASS
		MCH	RB100#0	RB100#0	QPSK	21.40	-2.1	19.30	33	PASS
			RB1#0	RB1#99	QPSK	18.85	-2.1	16.75	33	PASS
		HCH	RB100#0	RB100#0	QPSK	21.40	-2.1	19.30	33	PASS
			RB1#0	RB1#99	QPSK	18.89	-2.1	16.79	33	PASS
TM2	15+15	LCH	RB75#0	RB75#0	16QAM	21.50	-2.1	19.40	33	PASS
			RB1#0	RB1#74	16QAM	19.47	-2.1	17.37	33	PASS
		MCH	RB75#0	RB75#0	16QAM	21.44	-2.1	19.34	33	PASS
			RB1#0	RB1#74	16QAM	19.43	-2.1	17.33	33	PASS
		HCH	RB75#0	RB75#0	16QAM	21.49	-2.1	19.39	33	PASS
			RB1#0	RB1#74	16QAM	19.45	-2.1	17.35	33	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	21.44	-2.1	19.34	33	PASS
			RB1#0	RB1#99	16QAM	18.88	-2.1	16.78	33	PASS
		MCH	RB100#0	RB100#0	16QAM	21.40	-2.1	19.30	33	PASS
			RB1#0	RB1#99	16QAM	18.86	-2.1	16.76	33	PASS
		HCH	RB100#0	RB100#0	16QAM	21.36	-2.1	19.26	33	PASS
			RB1#0	RB1#99	16QAM	18.87	-2.1	16.77	33	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	15+15	LCH	RB75#0	RB75#0	QPSK	28.46	30.75	PASS
		MCH	RB75#0	RB75#0	QPSK	28.51	30.81	PASS
		HCH	RB75#0	RB75#0	QPSK	28.55	30.69	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	38.42	42.20	PASS
		MCH	RB100#0	RB100#0	QPSK	38.46	42.28	PASS
		HCH	RB100#0	RB100#0	QPSK	38.50	42.20	PASS
TM2	15+15	LCH	RB75#0	RB75#0	16QAM	28.47	30.63	PASS
		MCH	RB75#0	RB75#0	16QAM	28.46	30.63	PASS
		HCH	RB75#0	RB75#0	16QAM	28.44	30.69	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	38.27	42.12	PASS
		MCH	RB100#0	RB100#0	16QAM	38.28	42.20	PASS
		HCH	RB100#0	RB100#0	16QAM	38.27	42.20	PASS
TM3	15+15	LCH	RB75#0	RB75#0	64QAM	28.43	30.69	PASS
		MCH	RB75#0	RB75#0	64QAM	28.38	30.63	PASS
		HCH	RB75#0	RB75#0	64QAM	28.41	30.69	PASS
	20+20	LCH	RB100#0	RB100#0	64QAM	38.29	41.96	PASS
		MCH	RB100#0	RB100#0	64QAM	38.23	42.12	PASS
		HCH	RB100#0	RB100#0	64QAM	38.24	42.12	PASS

2.2 TEST PLOTS

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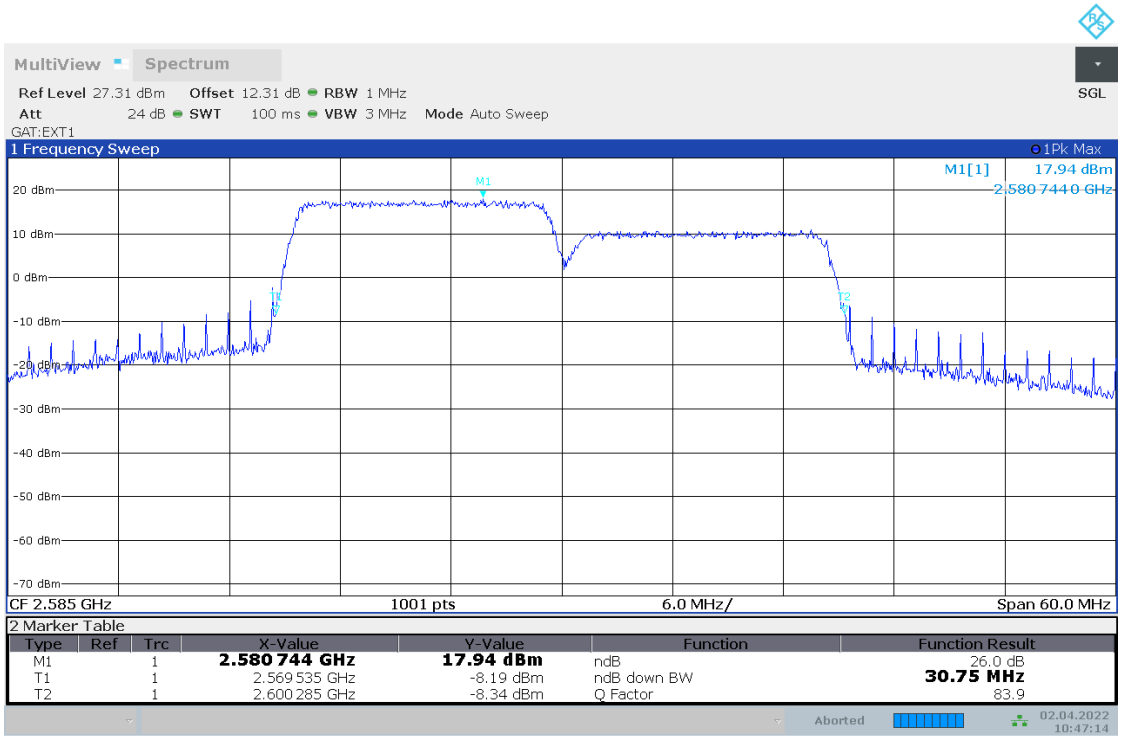

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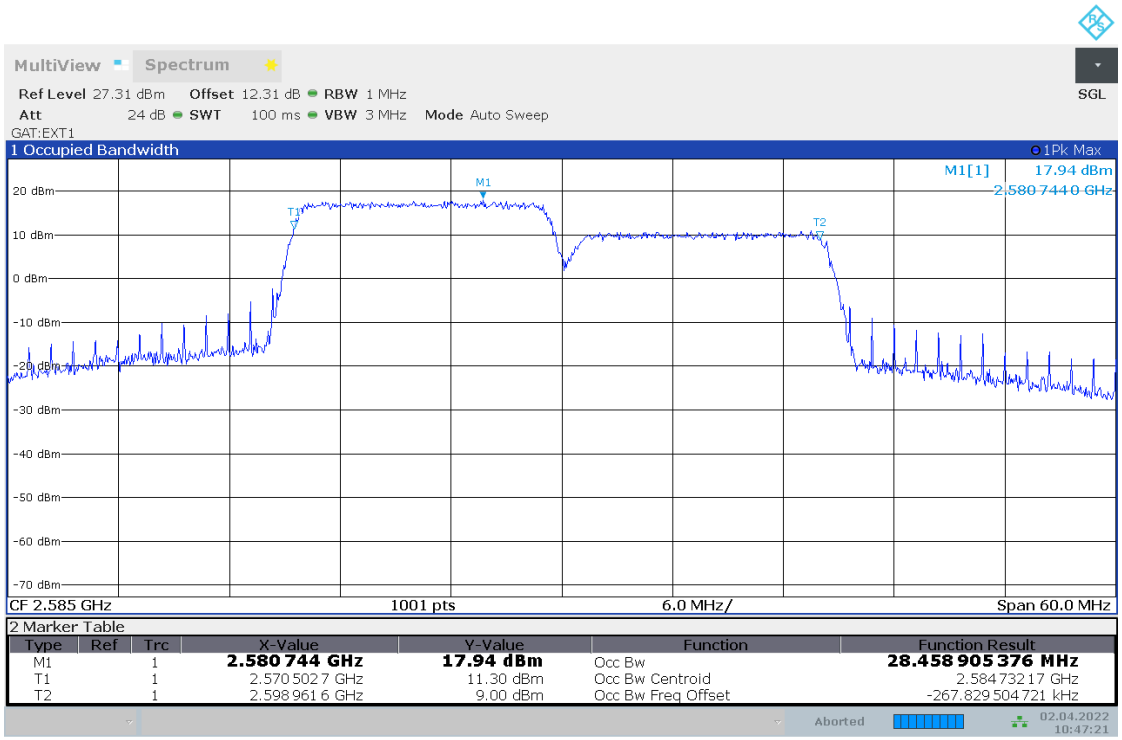

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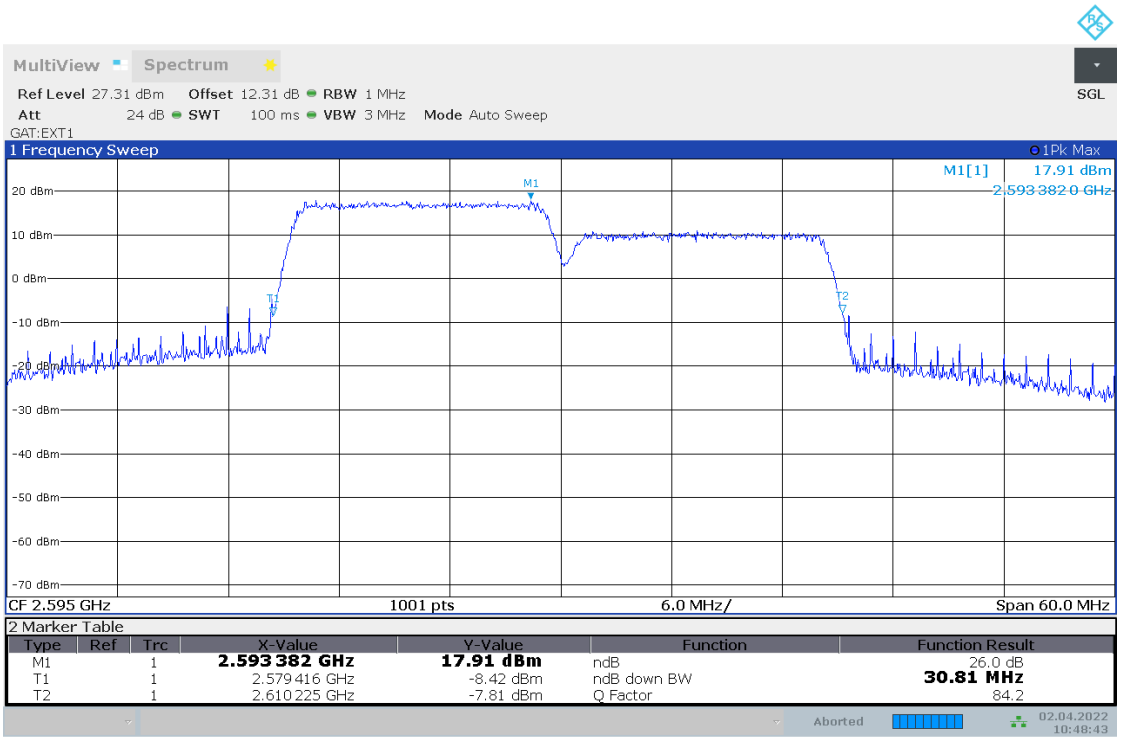

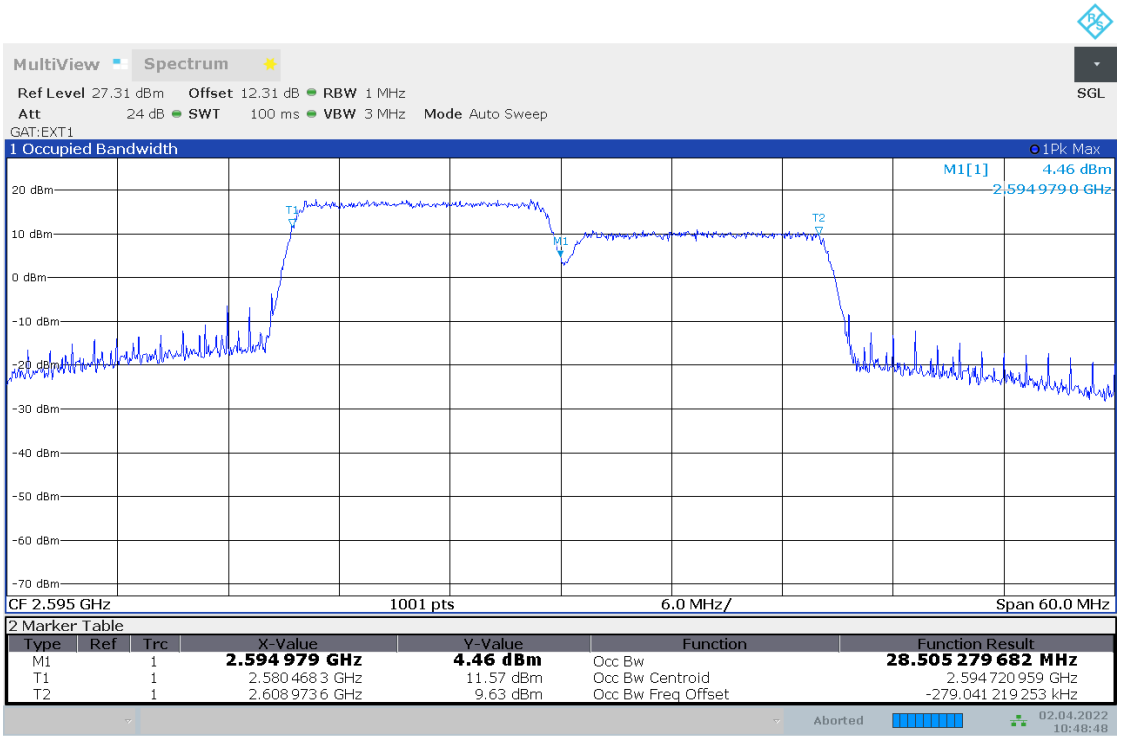

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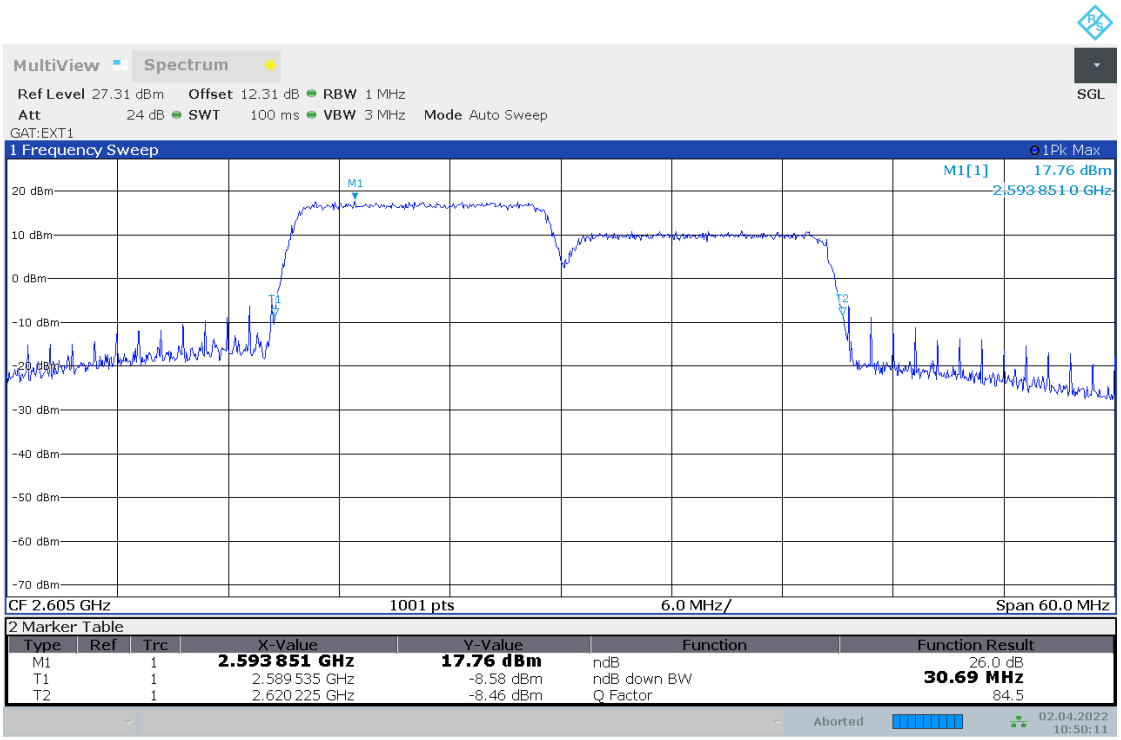

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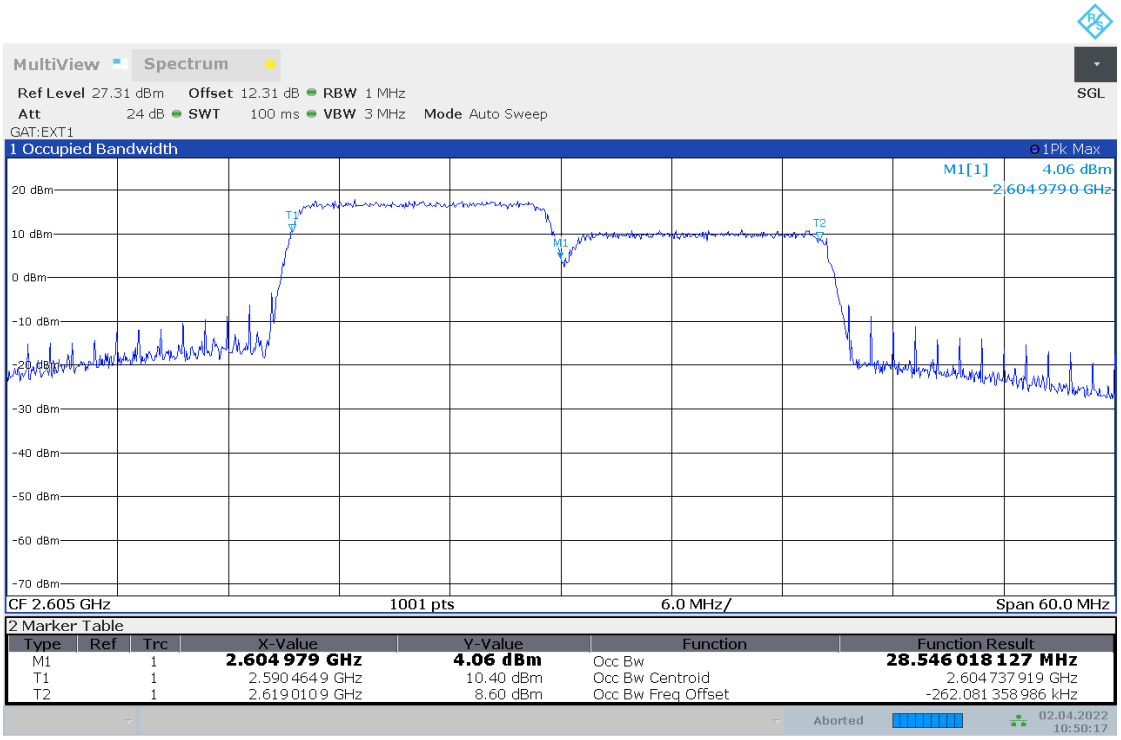

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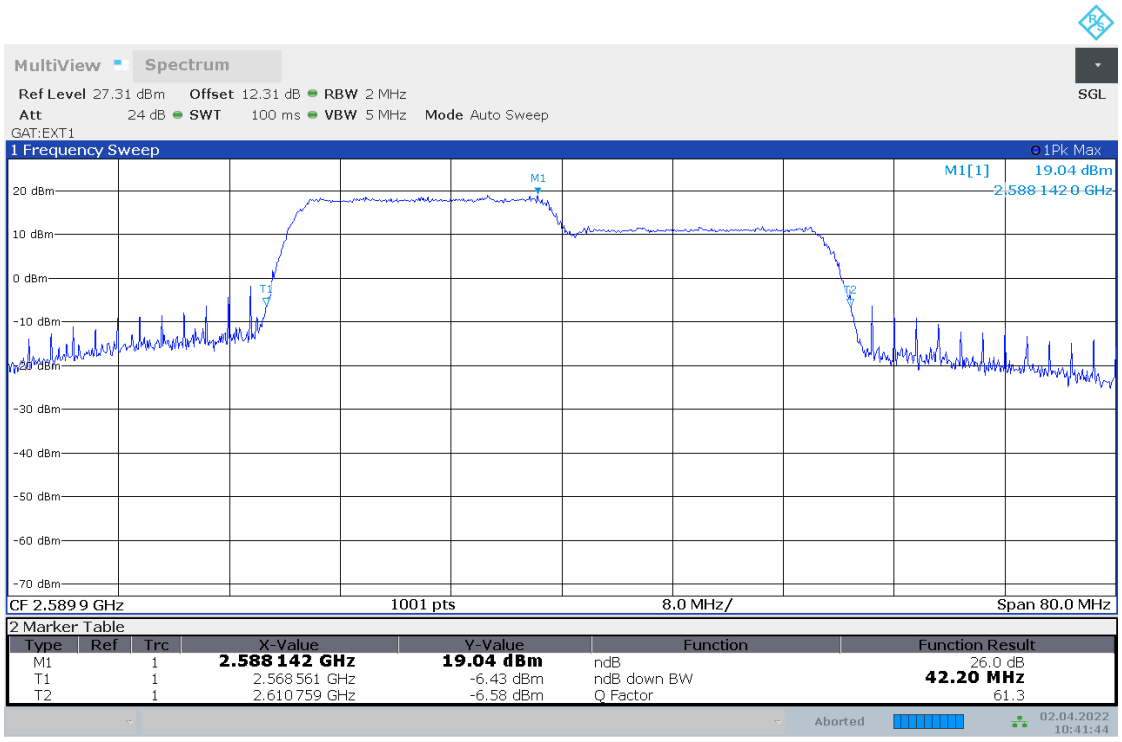

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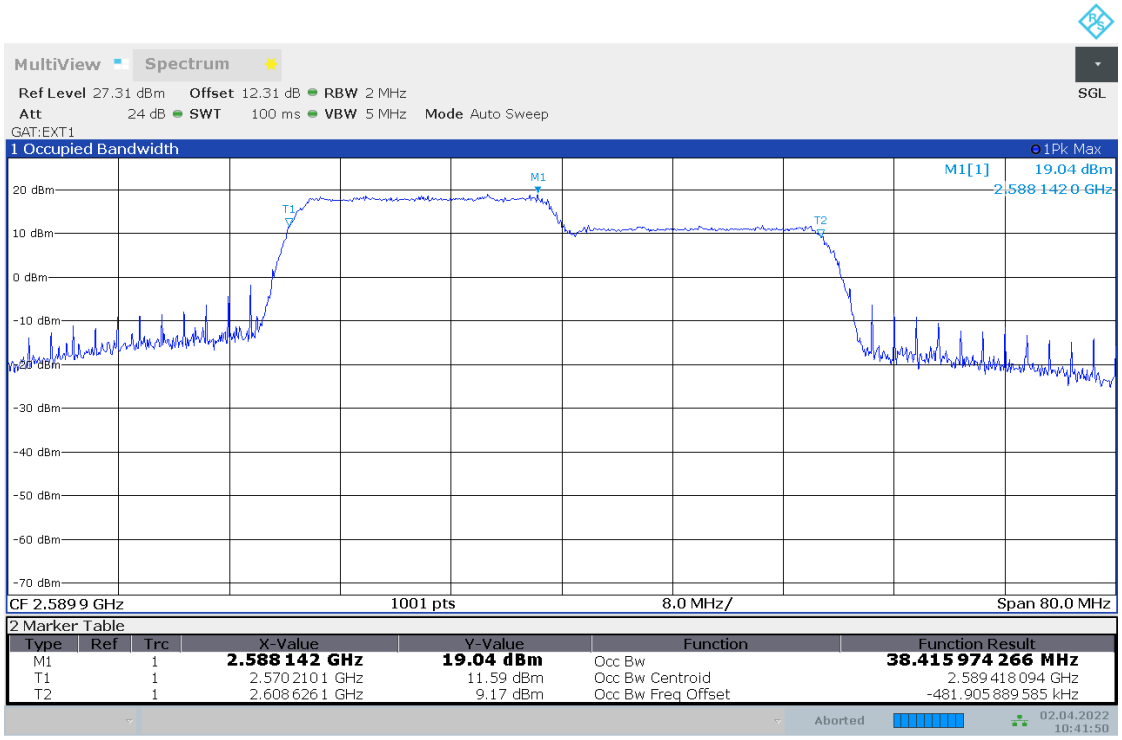

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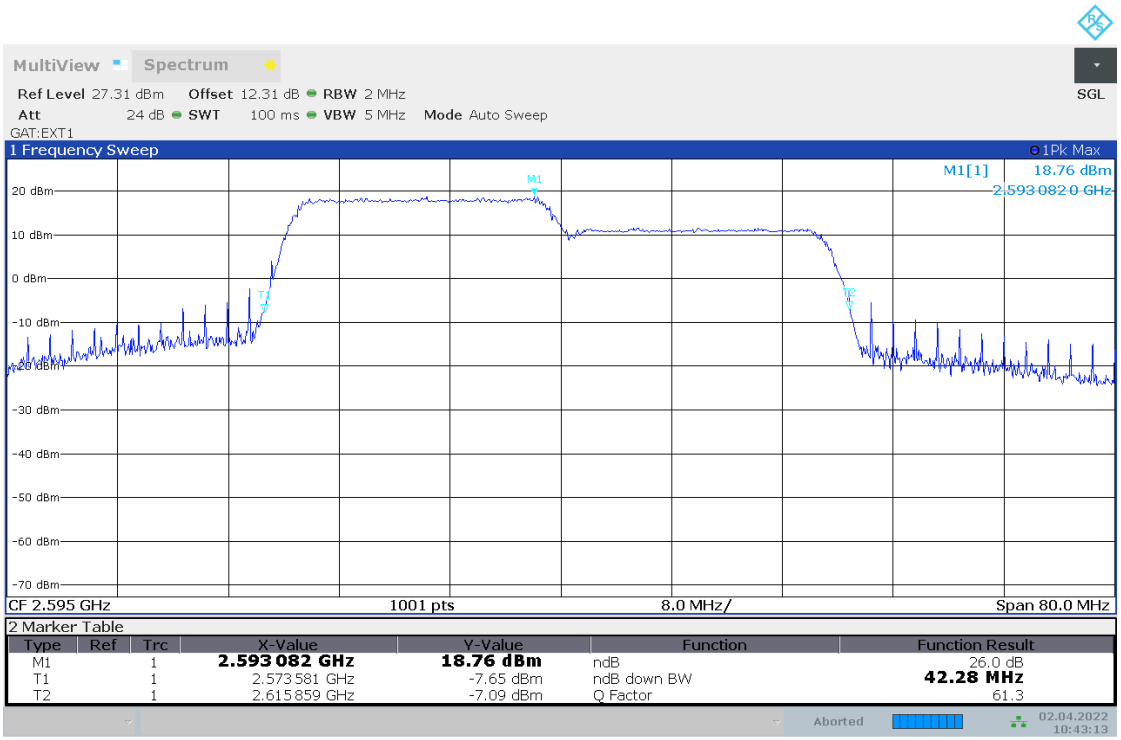

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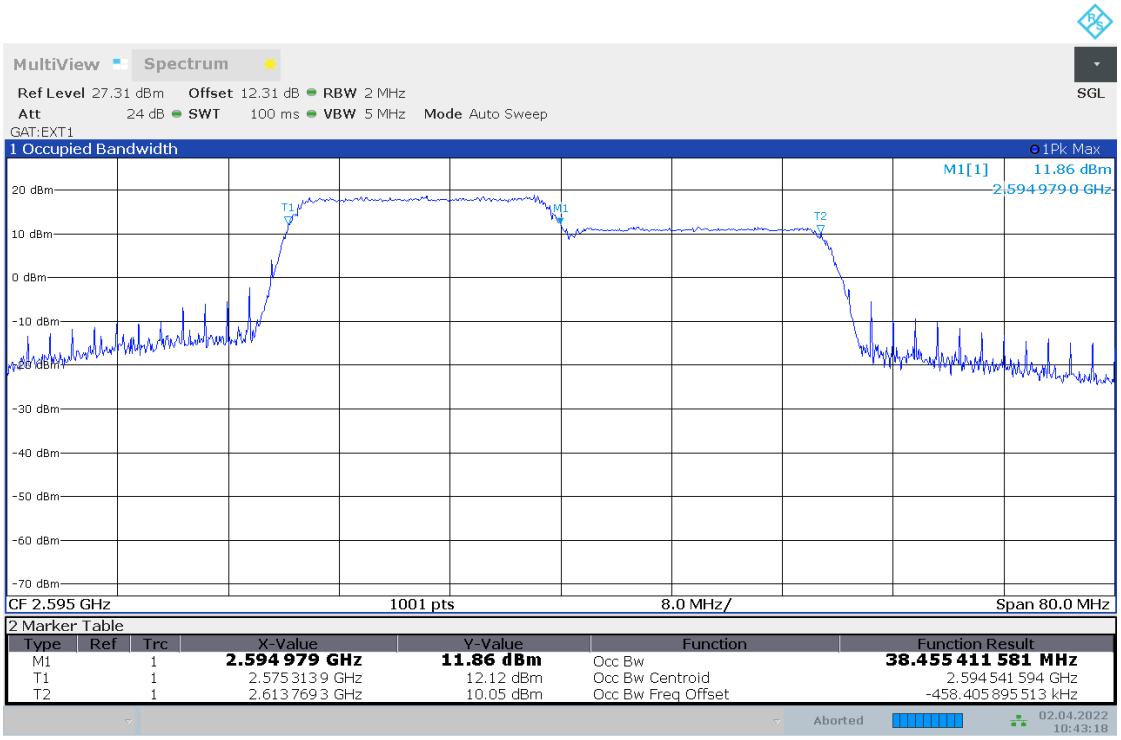

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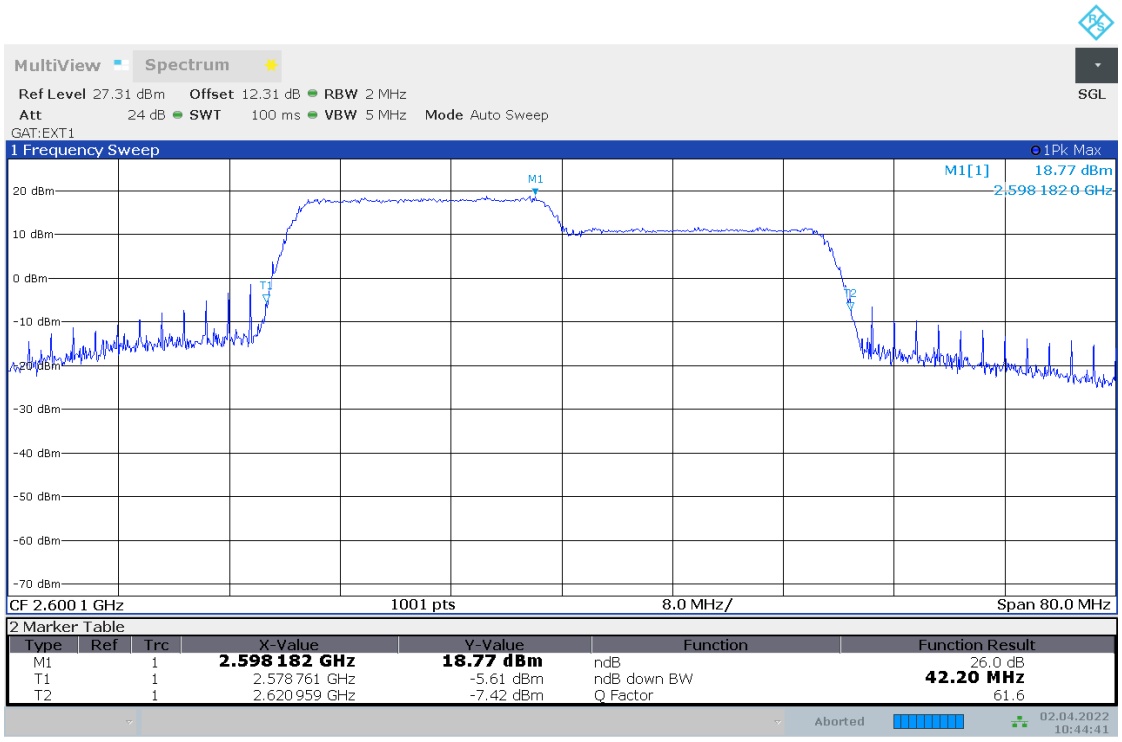

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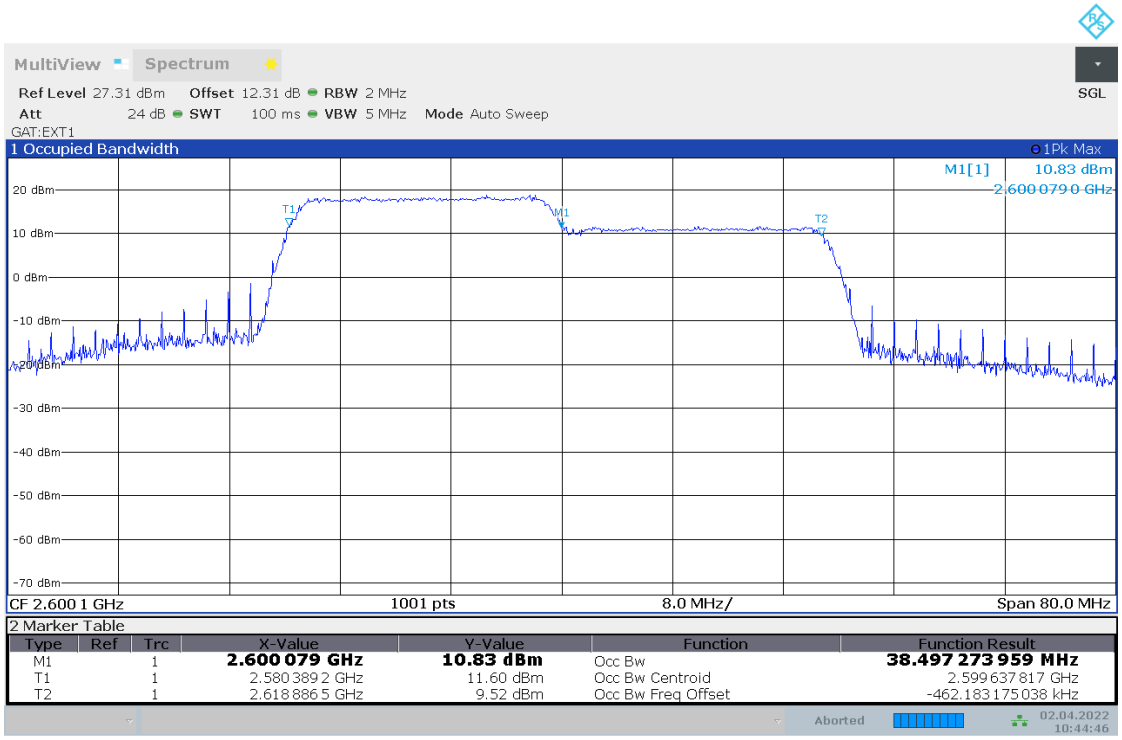

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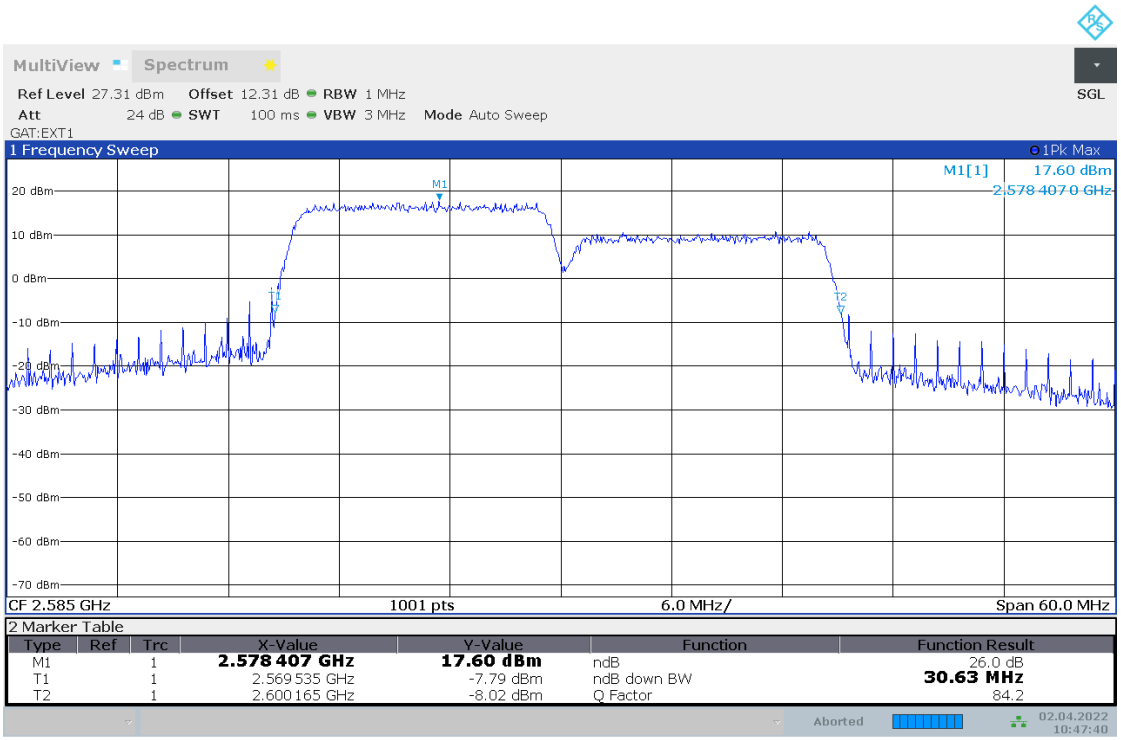

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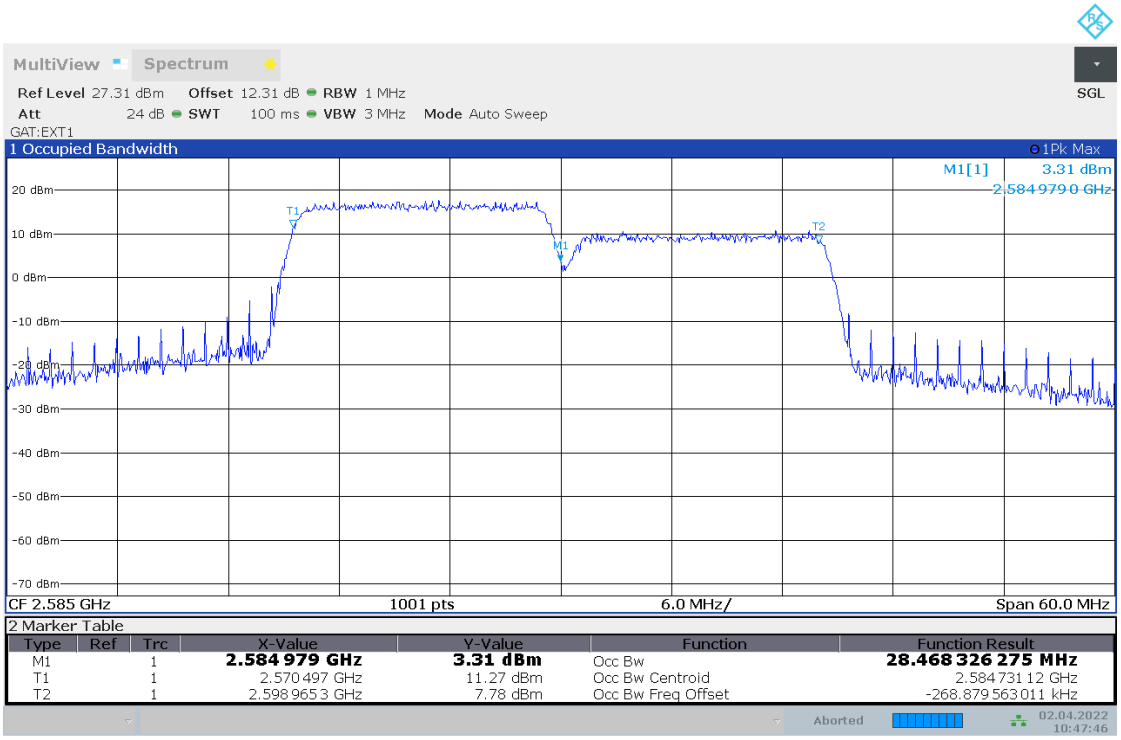

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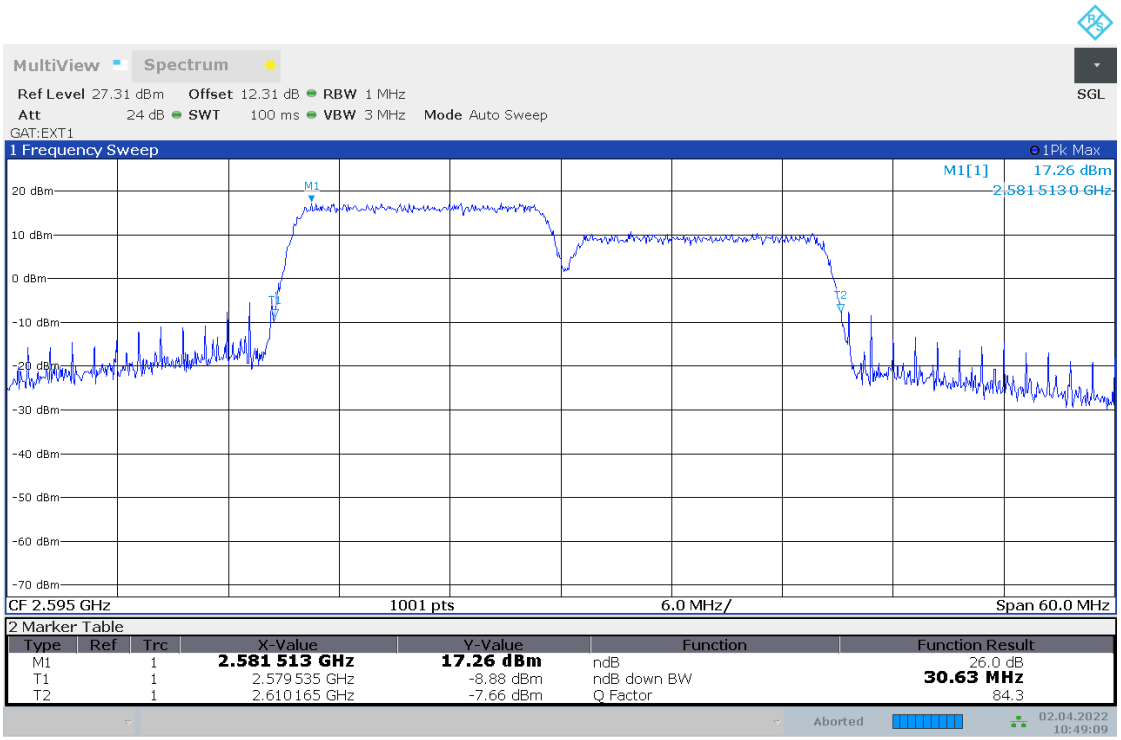

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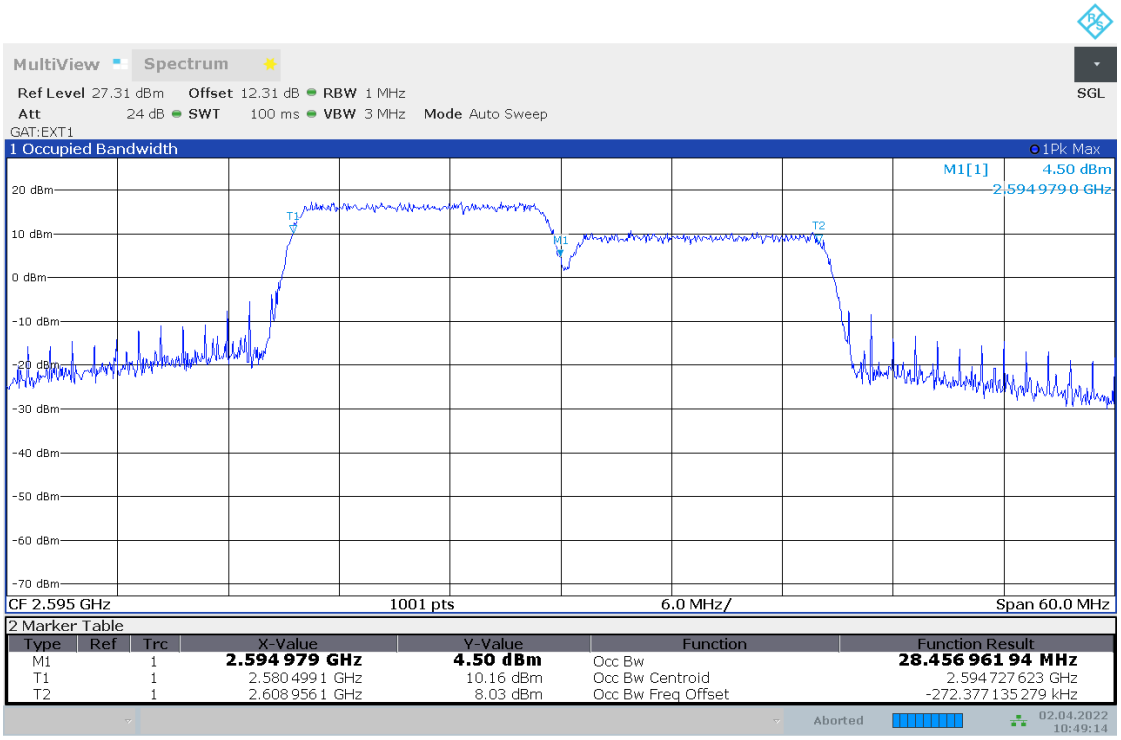

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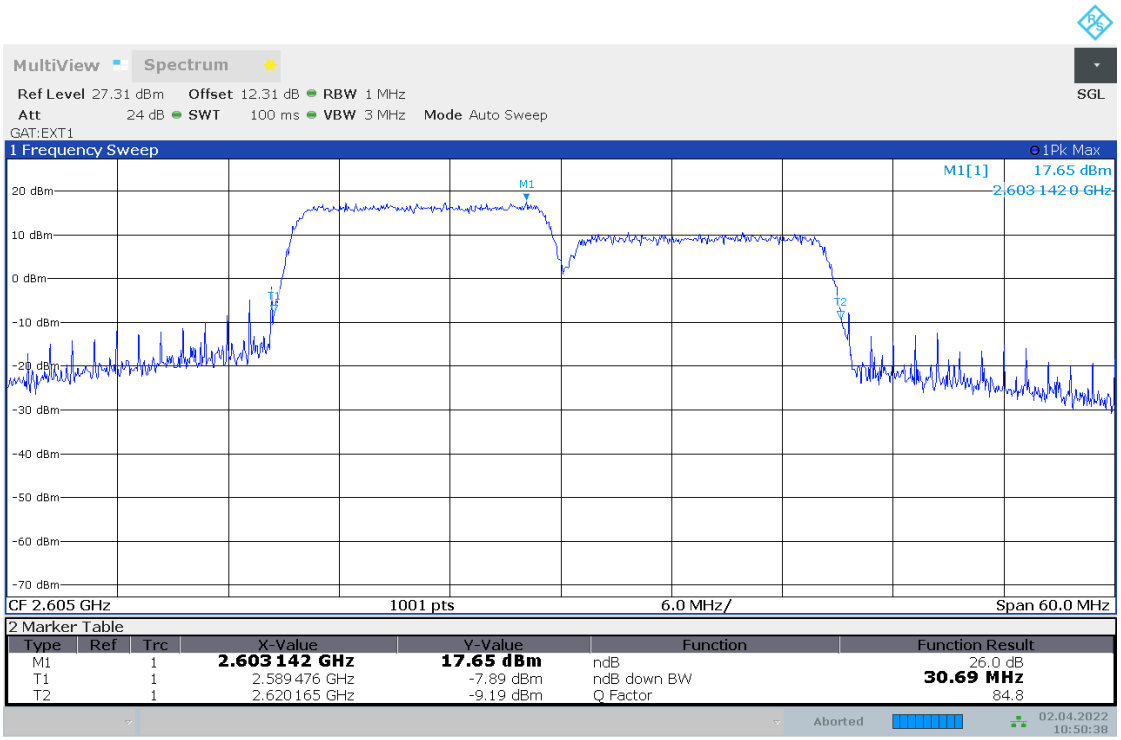

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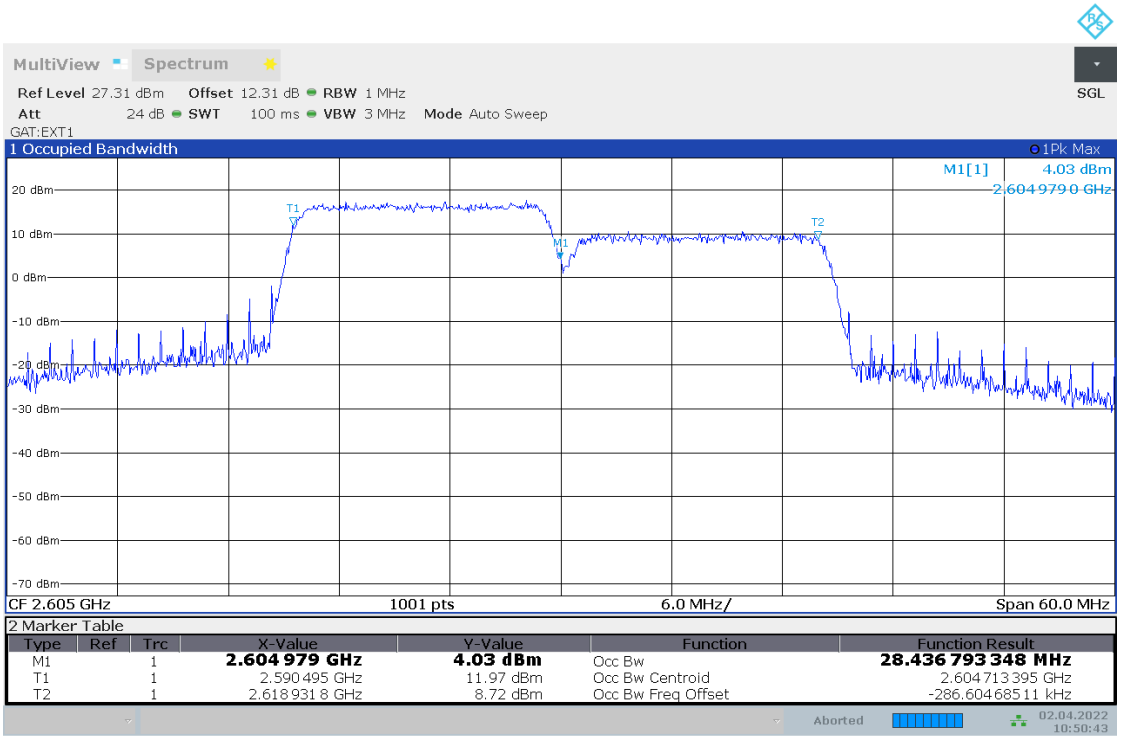

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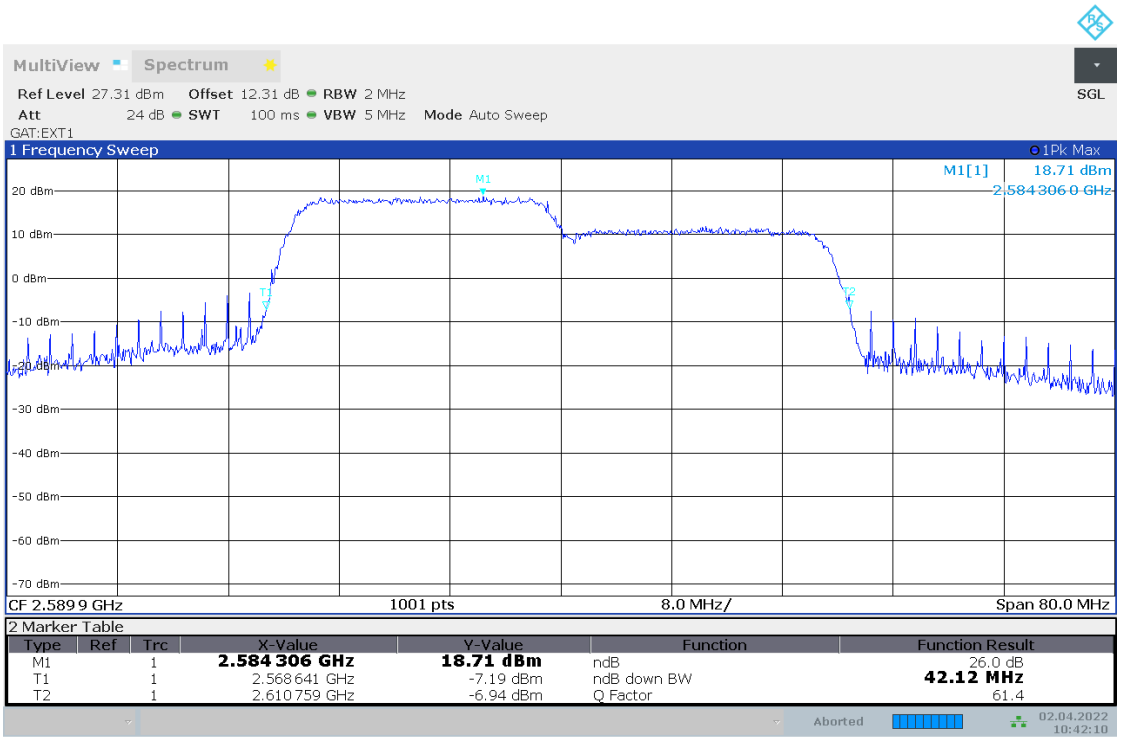

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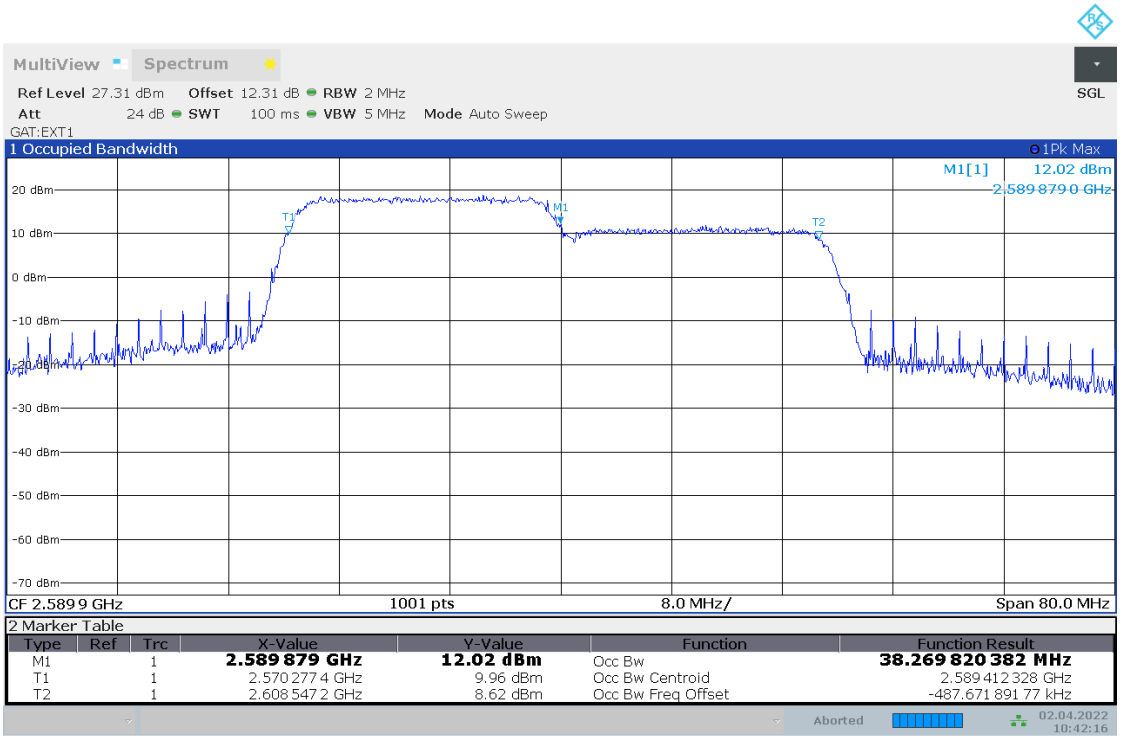

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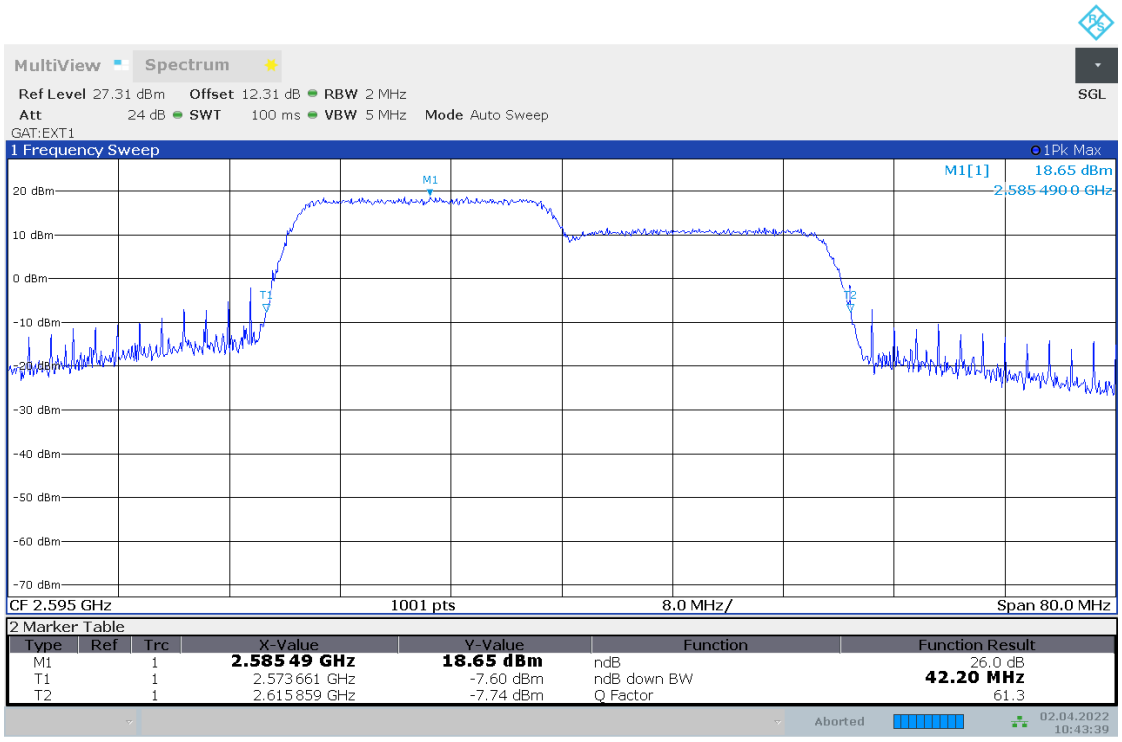

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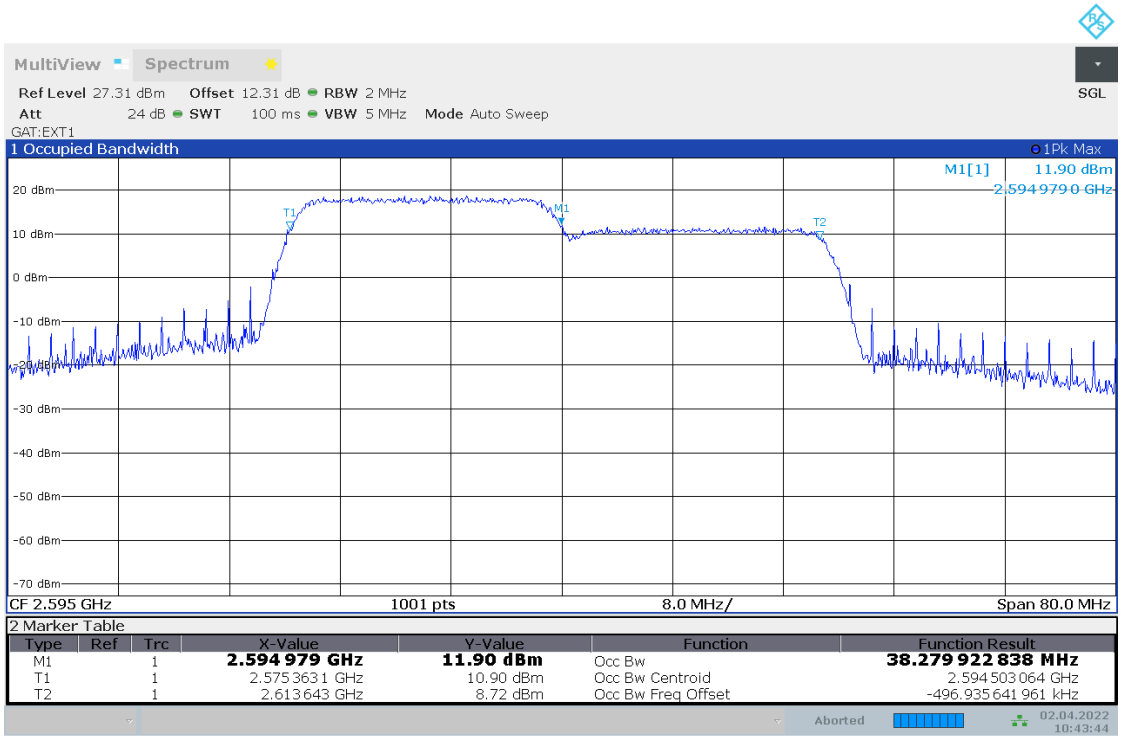

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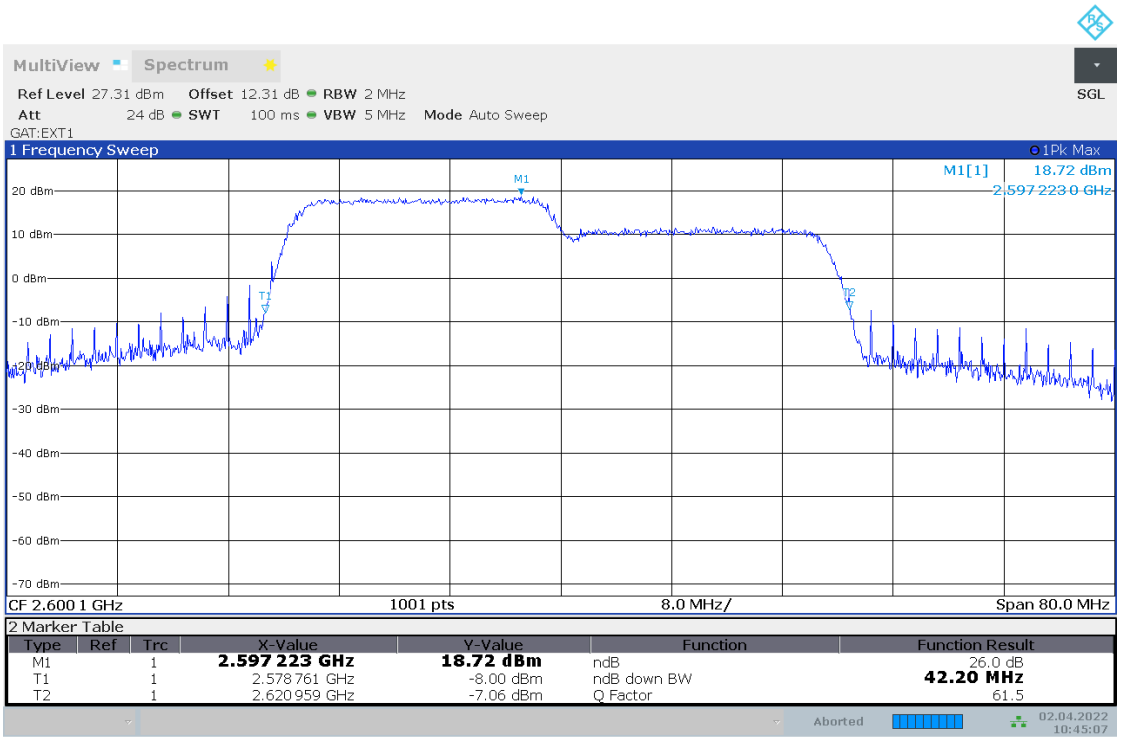

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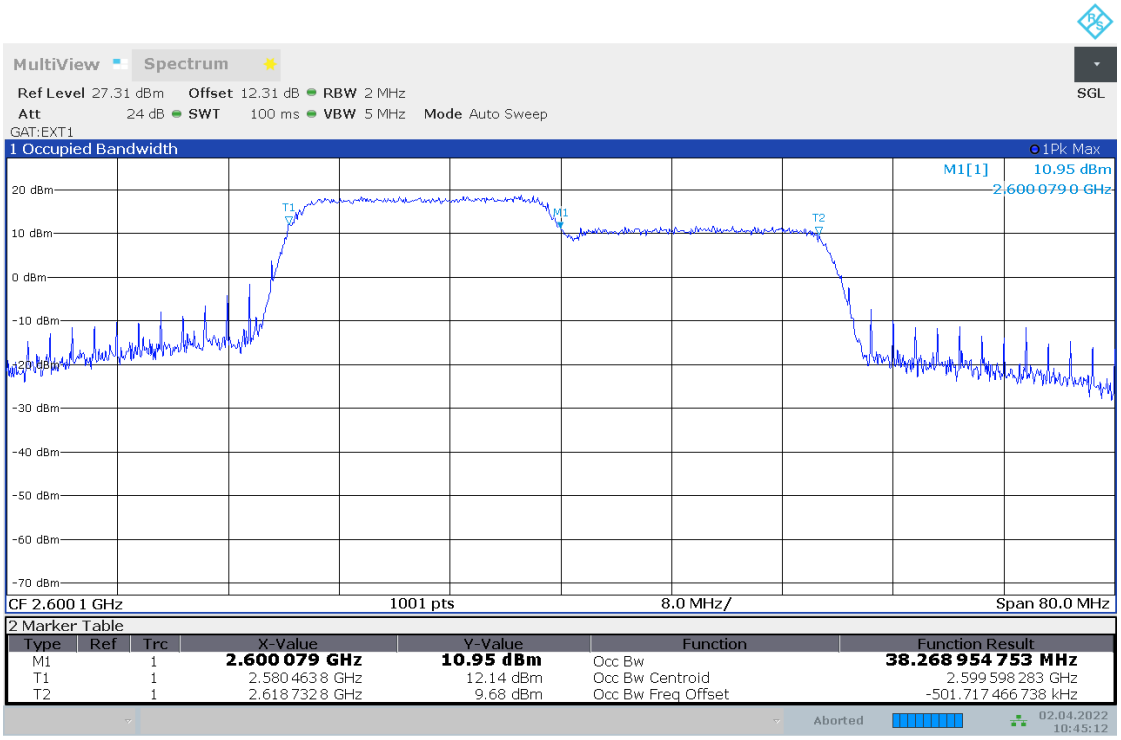

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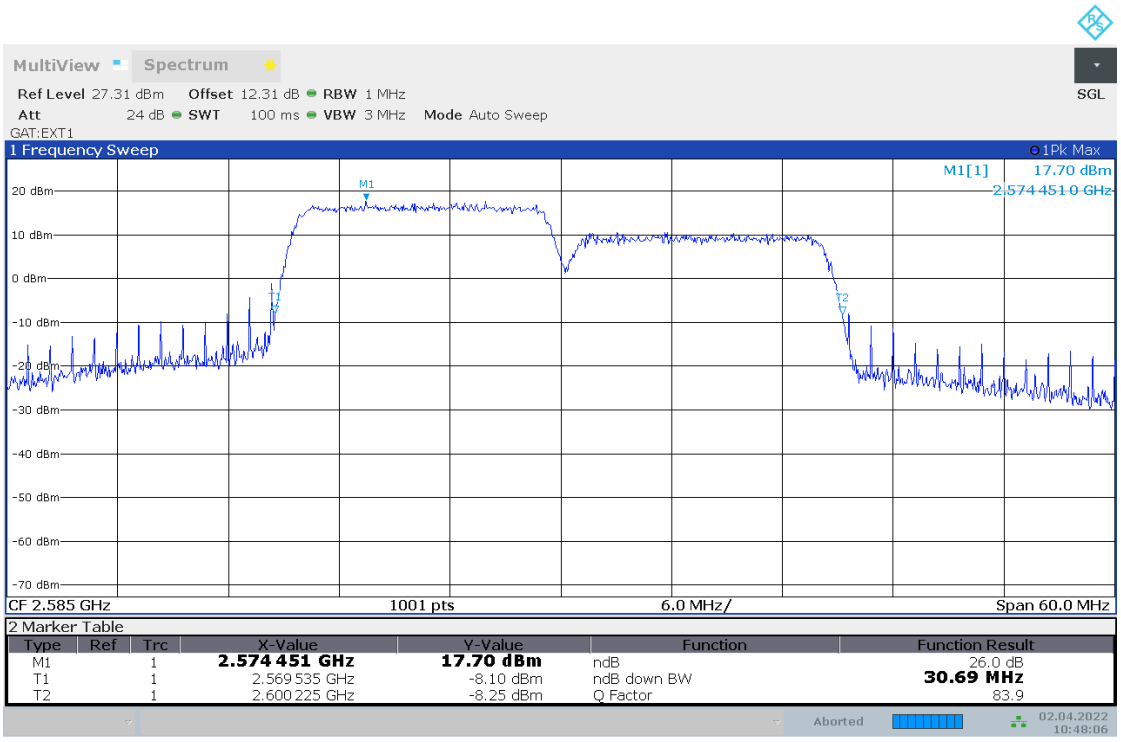
2.2.13 TM3_LCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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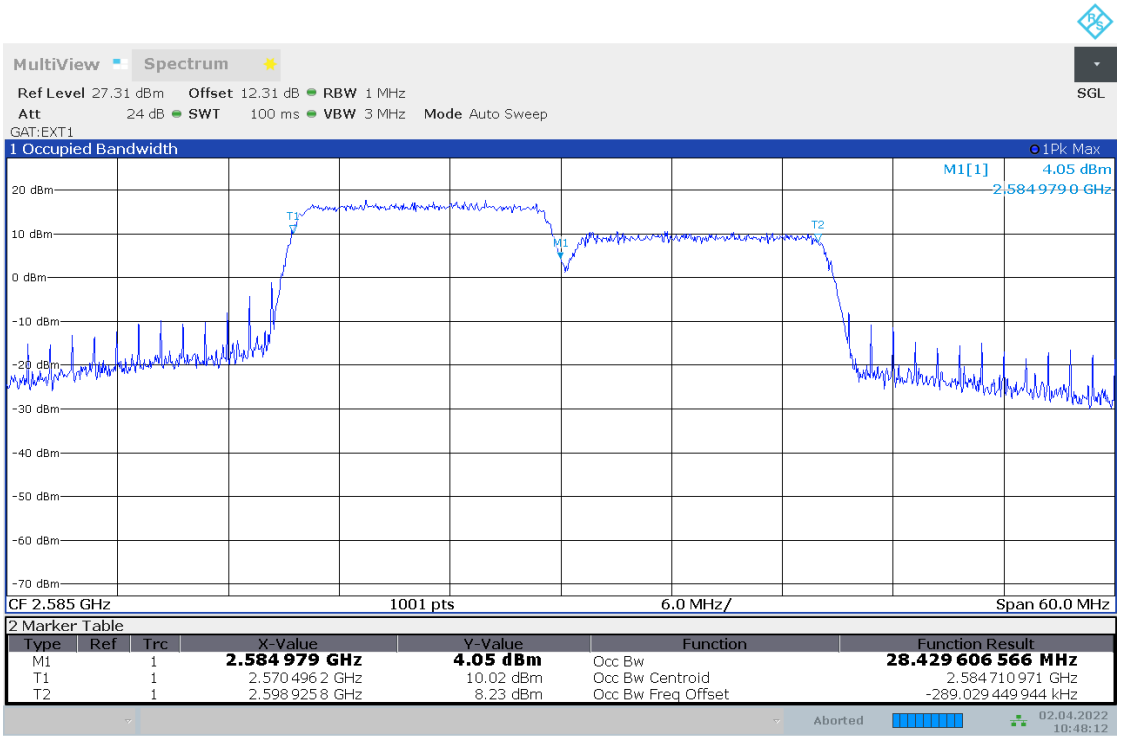

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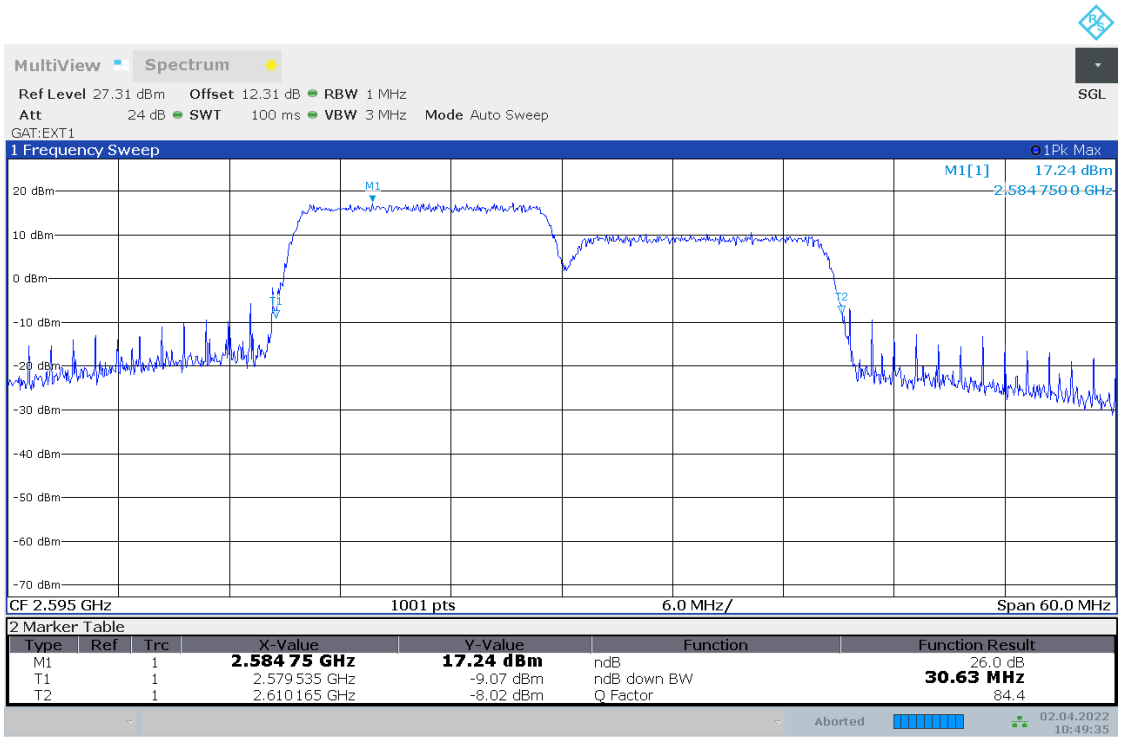
2.2.14 TM3_MCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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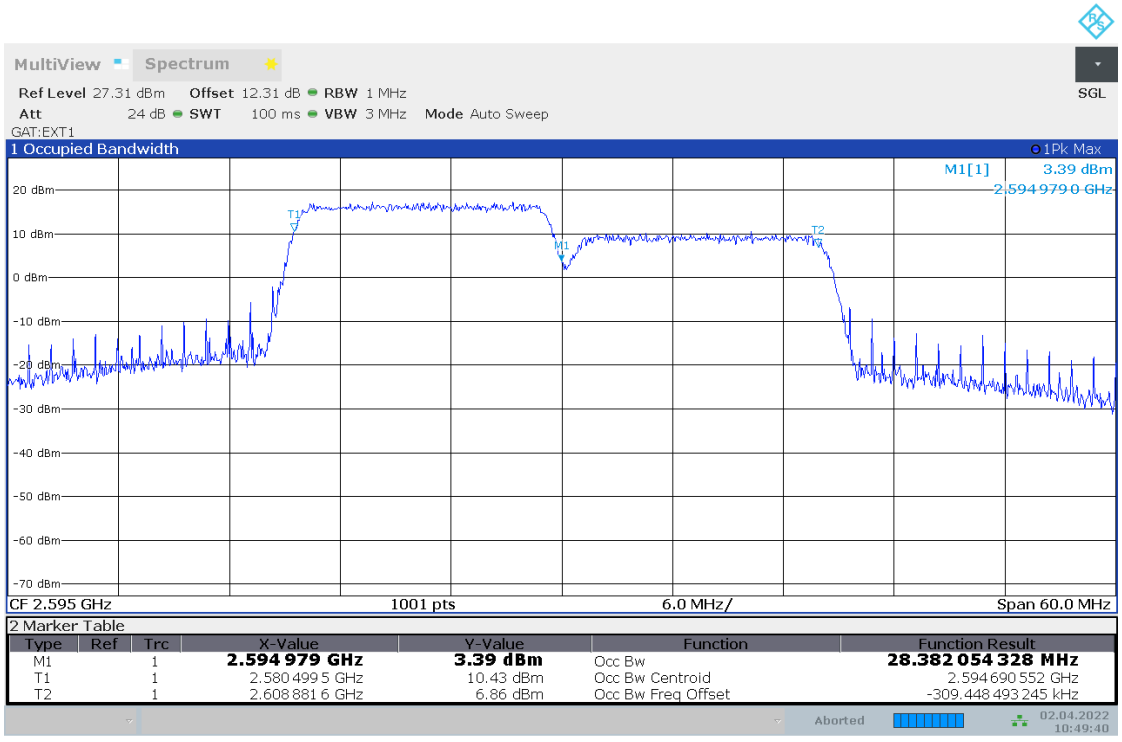

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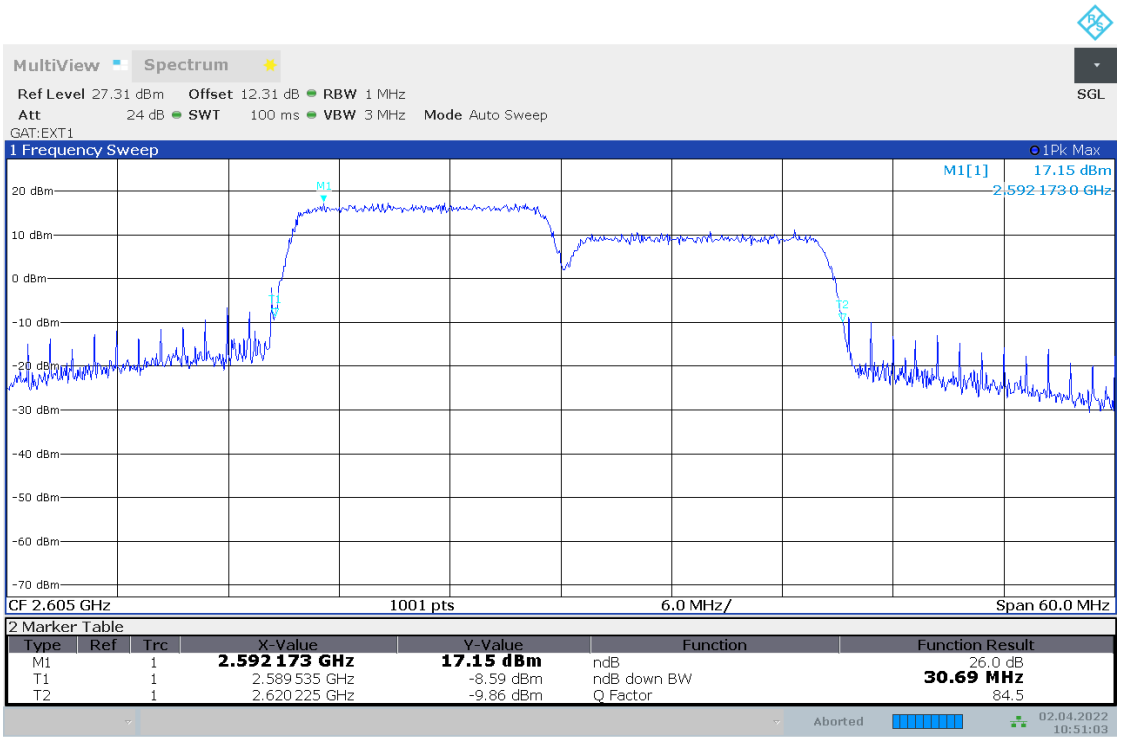
2.2.15 TM3_HCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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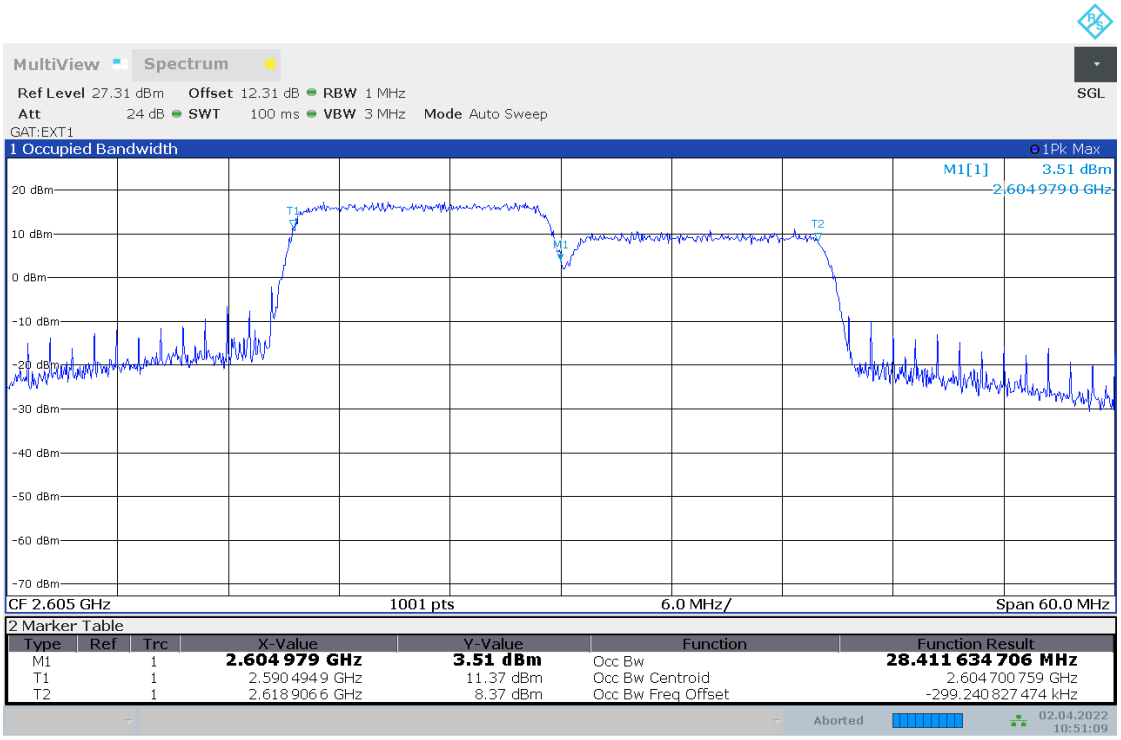

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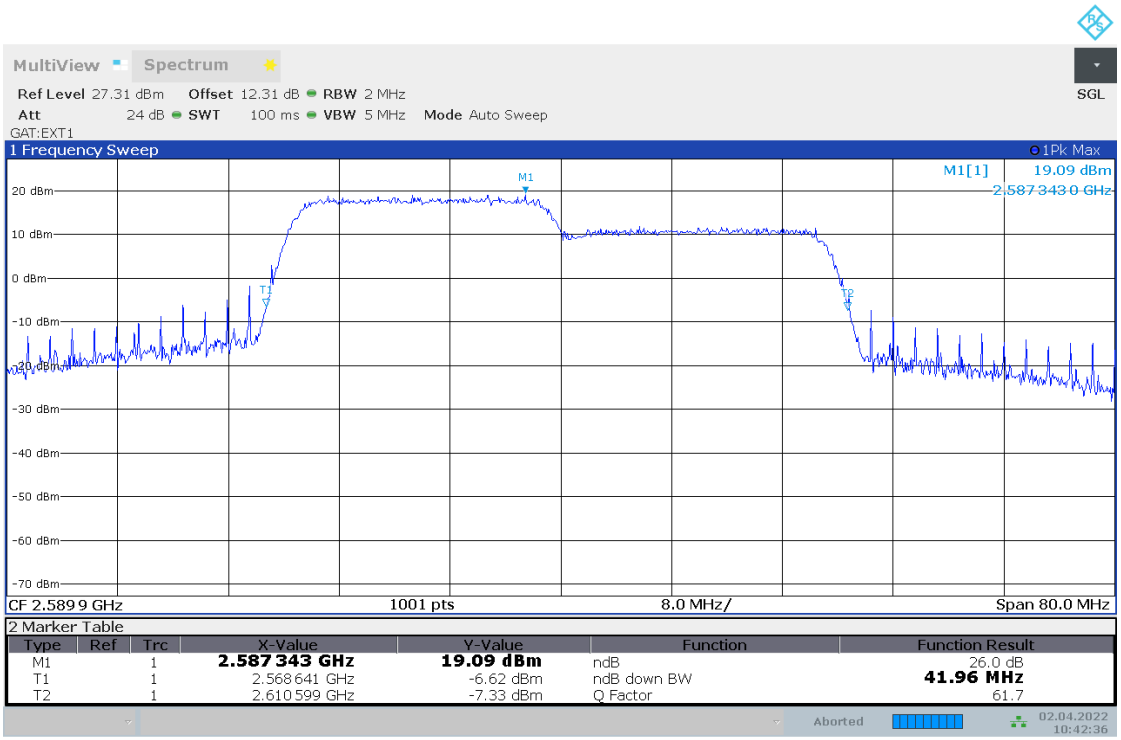
2.2.16 TM3_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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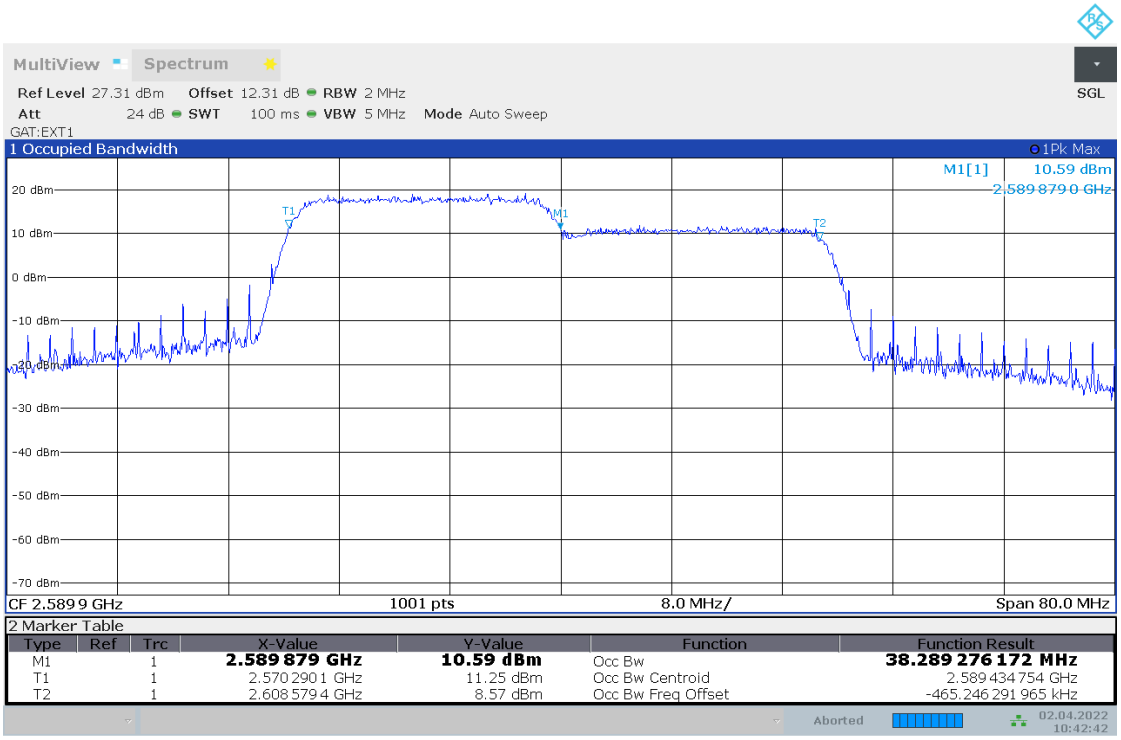

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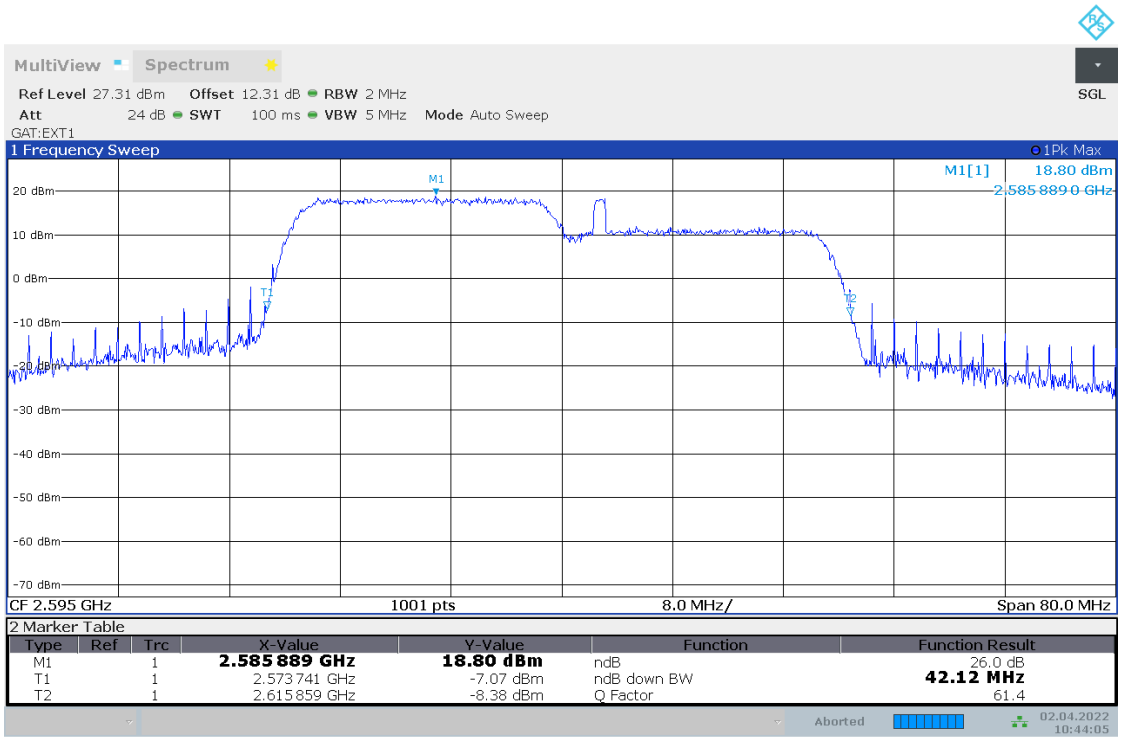
2.2.17 TM3_MCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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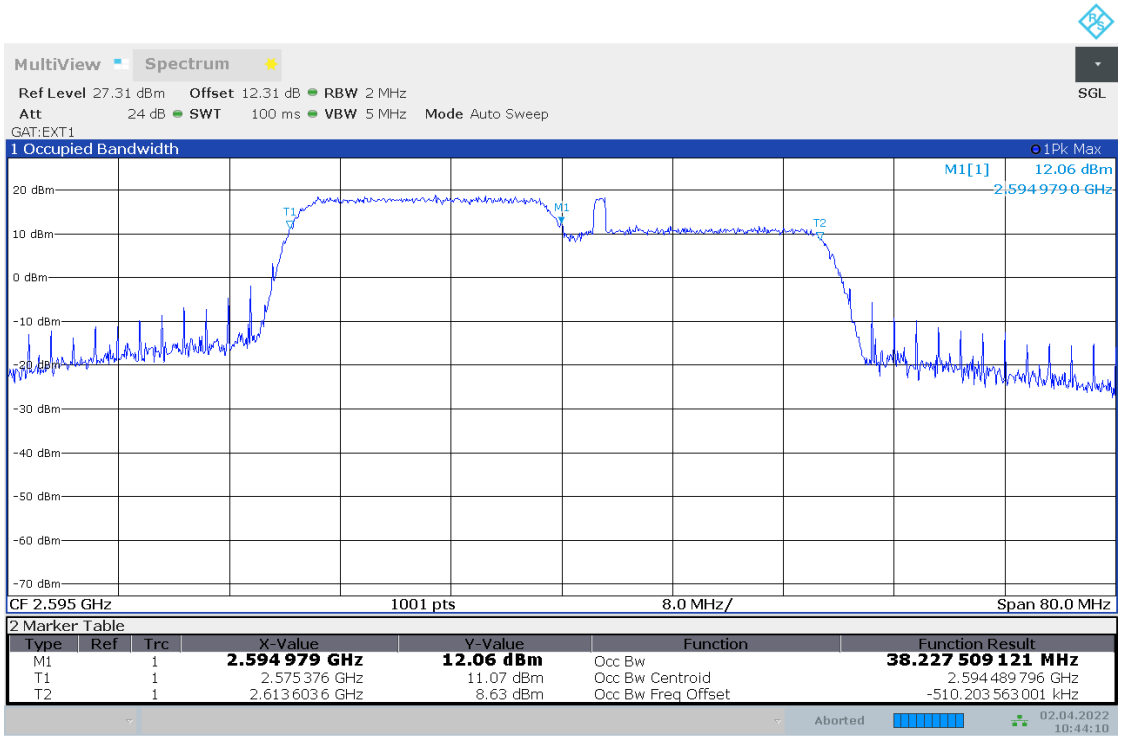

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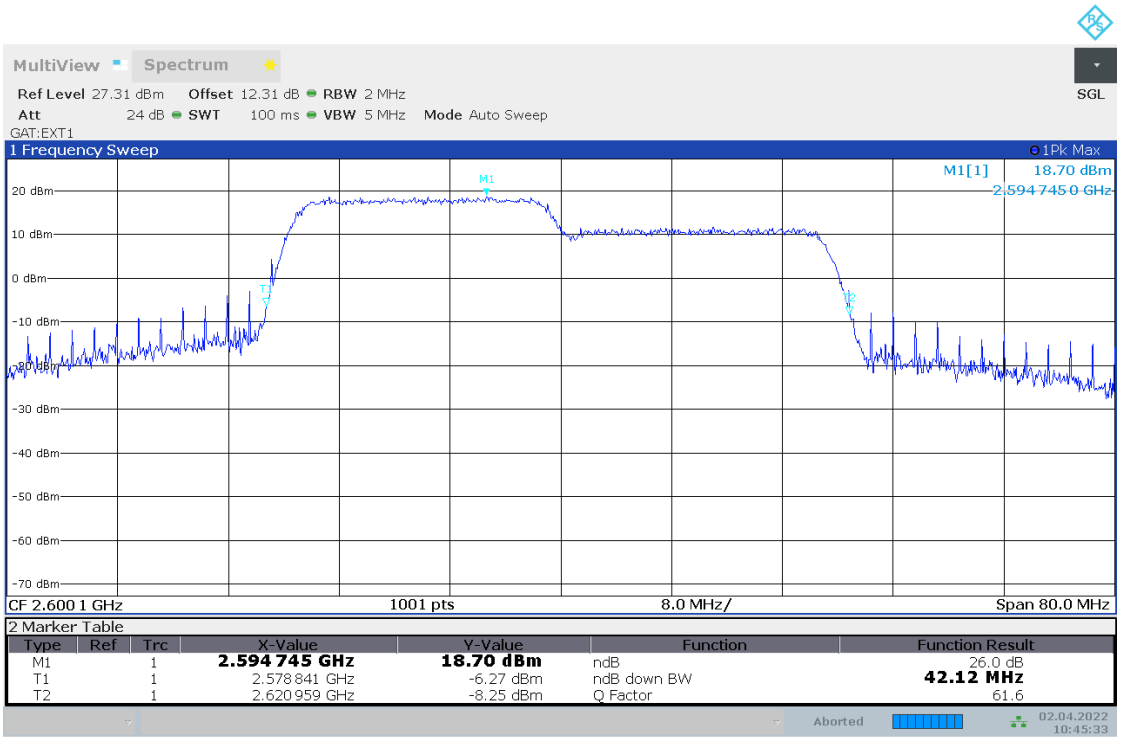
2.2.18 TM3_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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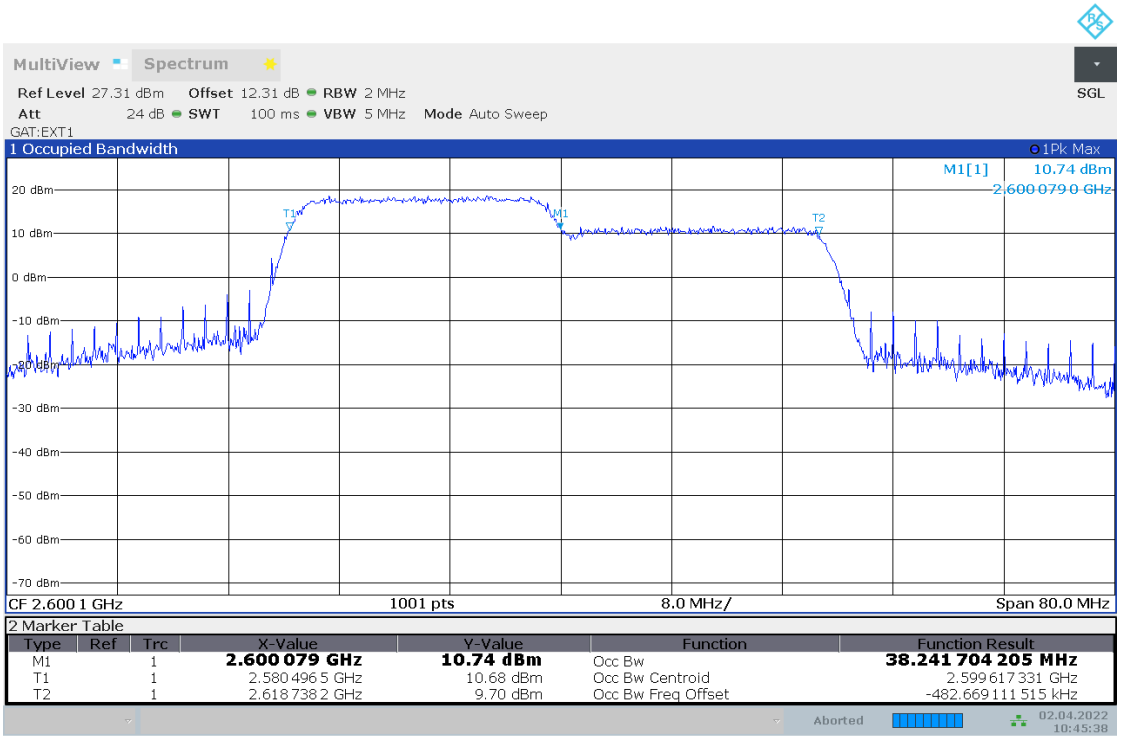

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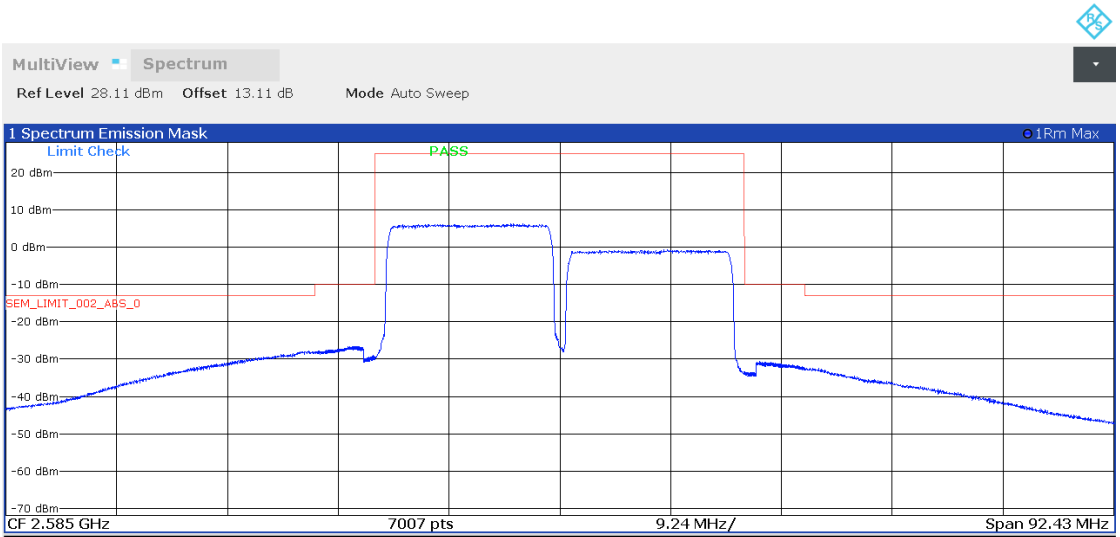
3. APPENDIX C - BAND EDGES COMPLIANCE

3.1 TEST RESULTS

Band Edges Compliance						
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Verdict
TM1	15+15	LCH	RB75#0	RB75#0	QPSK	PASS
			RB1#0	RB1#74	QPSK	PASS
		HCH	RB75#0	RB75#0	QPSK	PASS
			RB1#0	RB1#74	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	15+15	LCH	RB75#0	RB75#0	16QAM	PASS
			RB1#0	RB1#74	16QAM	PASS
		HCH	RB75#0	RB75#0	16QAM	PASS
			RB1#0	RB1#74	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	15+15	LCH	RB75#0	RB75#0	64QAM	PASS
			RB1#0	RB1#74	64QAM	PASS
		HCH	RB75#0	RB75#0	64QAM	PASS
			RB1#0	RB1#74	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_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



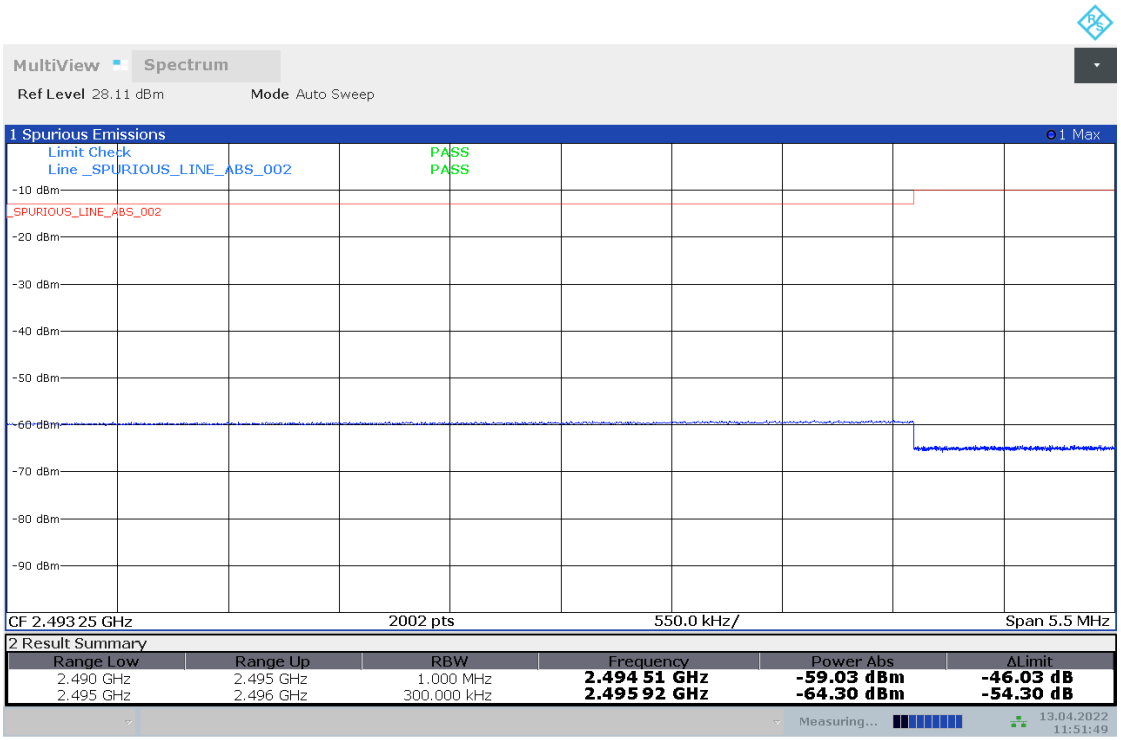
2 Result Summary

Sub Block A Center 2.58 GHz Tx Power 17.82 dBm RBW 500.000 kHz
Tx Bandwidth 15.000 MHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-46.215 MHz	-20.405 MHz	1.000 MHz	**2.563 99 GHz**	**-27.92 dBm**	**-45.75 dB**	**-14.92 dB**
-20.405 MHz	-16.405 MHz	1.000 MHz	**2.568 02 GHz**	**-26.55 dBm**	**-44.37 dB**	**-16.55 dB**
-16.405 MHz	-15.405 MHz	500.000 kHz	**2.569 39 GHz**	**-29.18 dBm**	**-47.00 dB**	**-19.18 dB**
15.405 MHz	16.405 MHz	500.000 kHz	**2.600 45 GHz**	**-33.48 dBm**	**-51.30 dB**	**-23.48 dB**
16.405 MHz	20.405 MHz	1.000 MHz	**2.601 44 GHz**	**-30.86 dBm**	**-48.68 dB**	**-20.86 dB**
20.405 MHz	46.215 MHz	1.000 MHz	**2.605 44 GHz**	**-32.39 dBm**	**-50.21 dB**	**-19.39 dB**

Measuring... 13.04.2022 11:51:34

11:51:34 13.04.2022



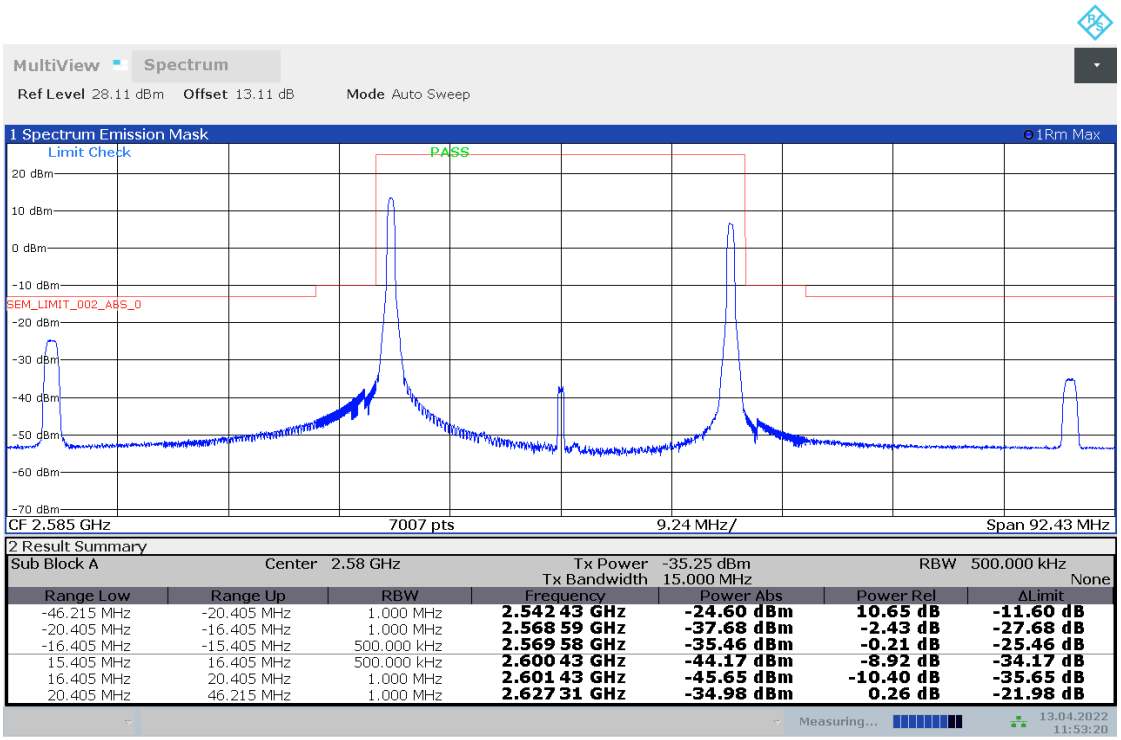
2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.490 GHz	2.495 GHz	1.000 MHz	**2.494 51 GHz**	**-59.03 dBm**	**-46.03 dB**
2.495 GHz	2.496 GHz	300.000 kHz	**2.495 92 GHz**	**-64.30 dBm**	**-54.30 dB**

Measuring... 13.04.2022 11:51:49

11:51:49 13.04.2022

3.2.2 TM1_LCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



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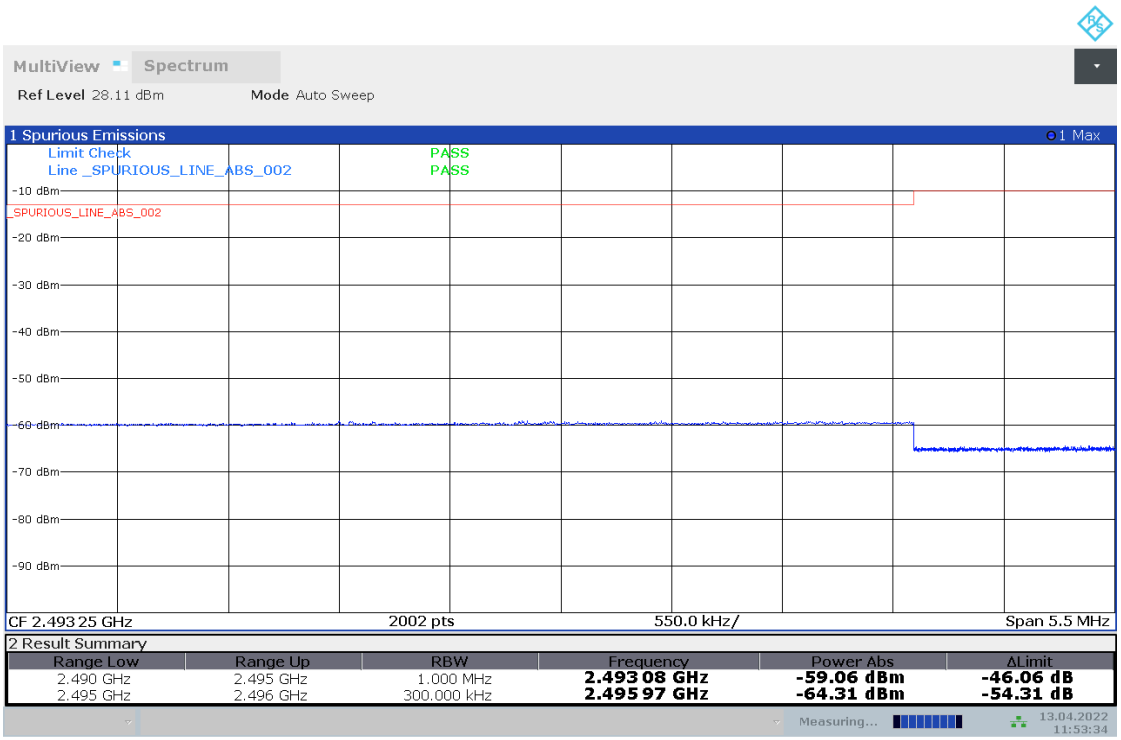
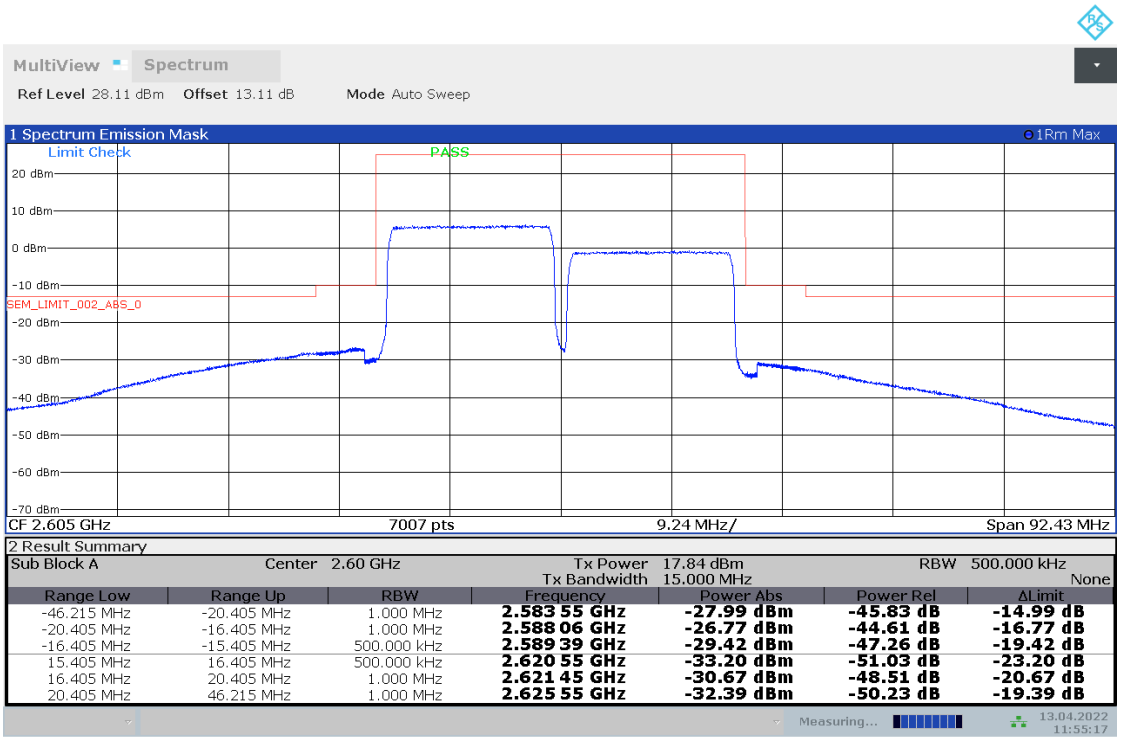


11:53:34 13.04.2022

3.2.3 TM1_HCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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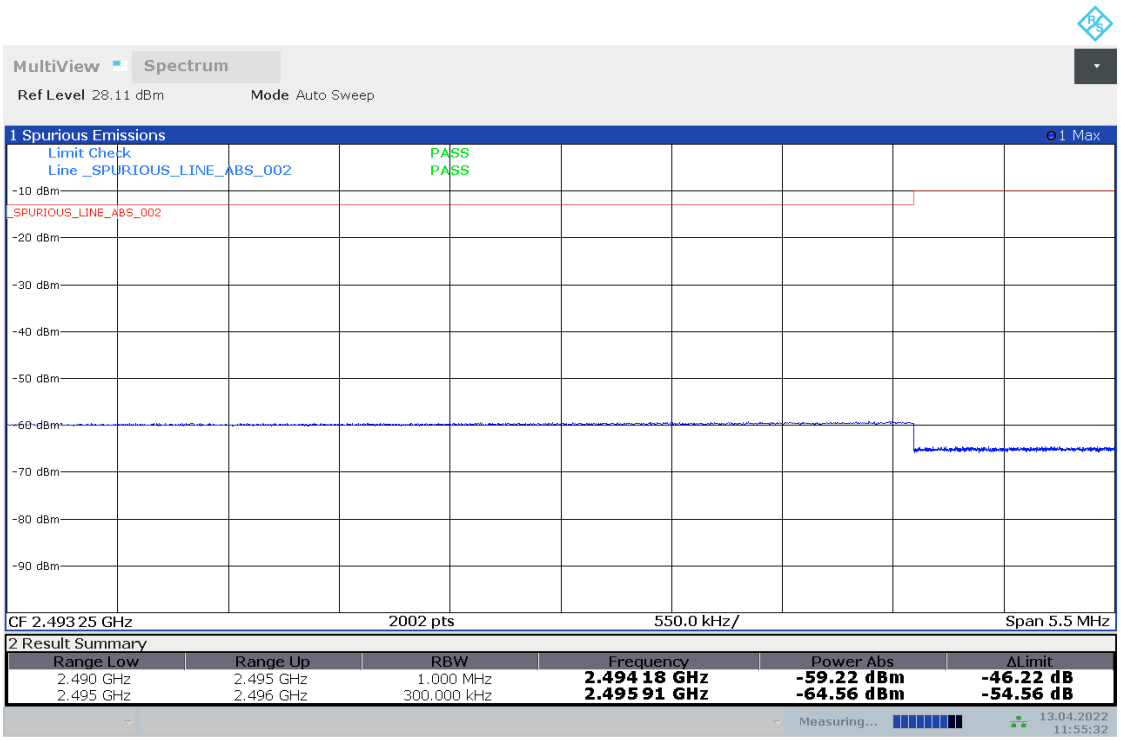
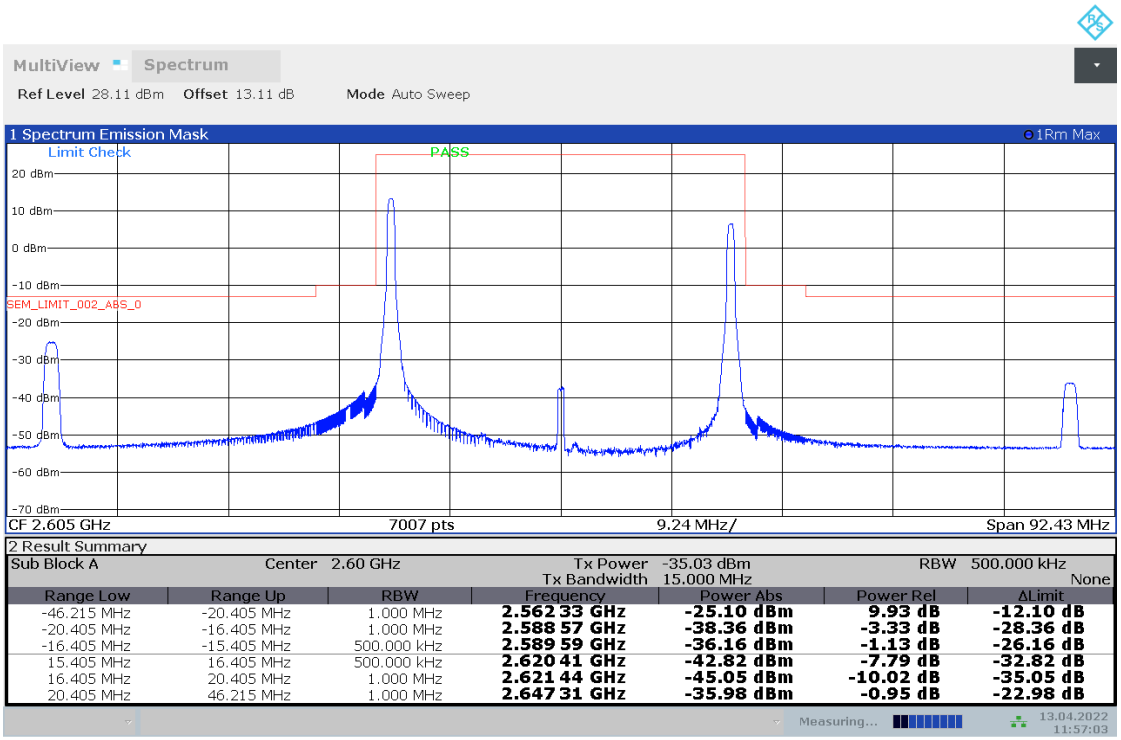


11:55:32 13.04.2022

3.2.4 TM1_HCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



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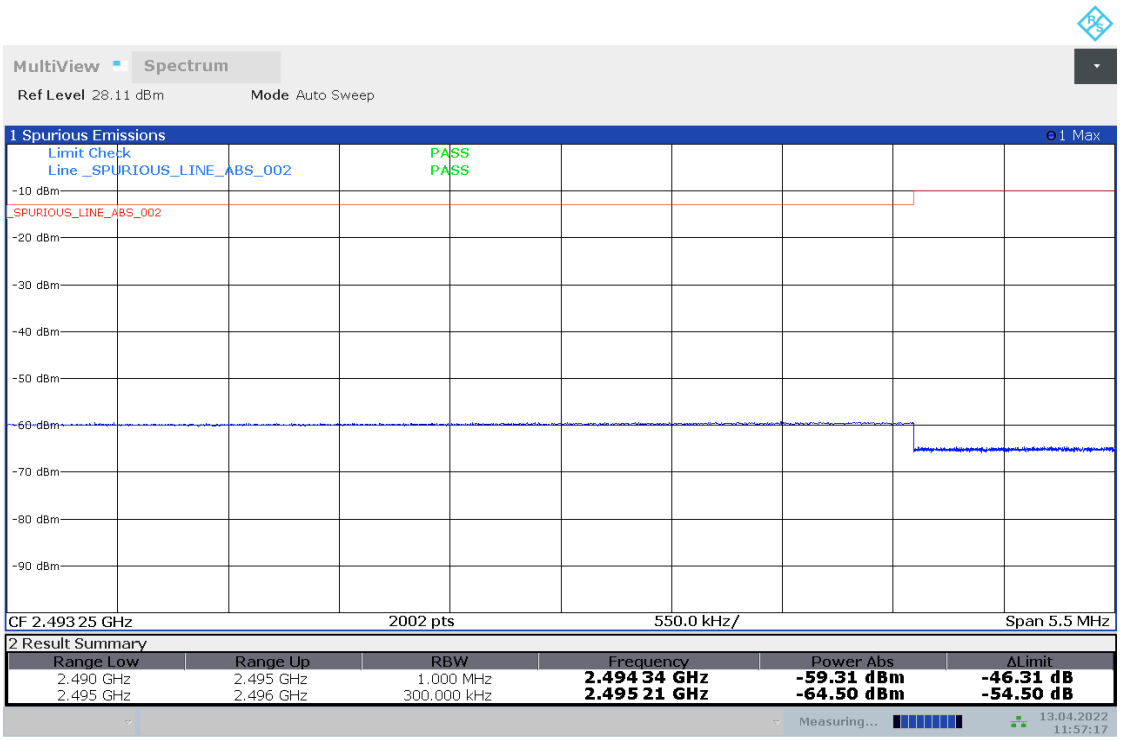
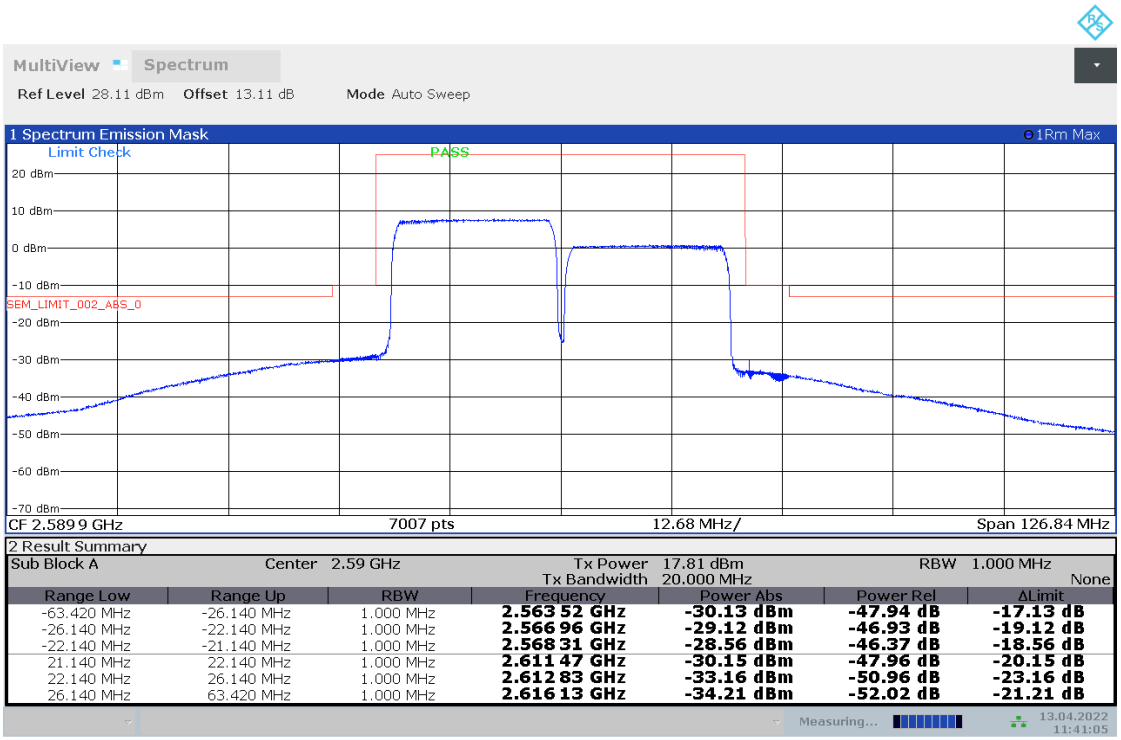


11:57:17 13.04.2022

3.2.5 TM1_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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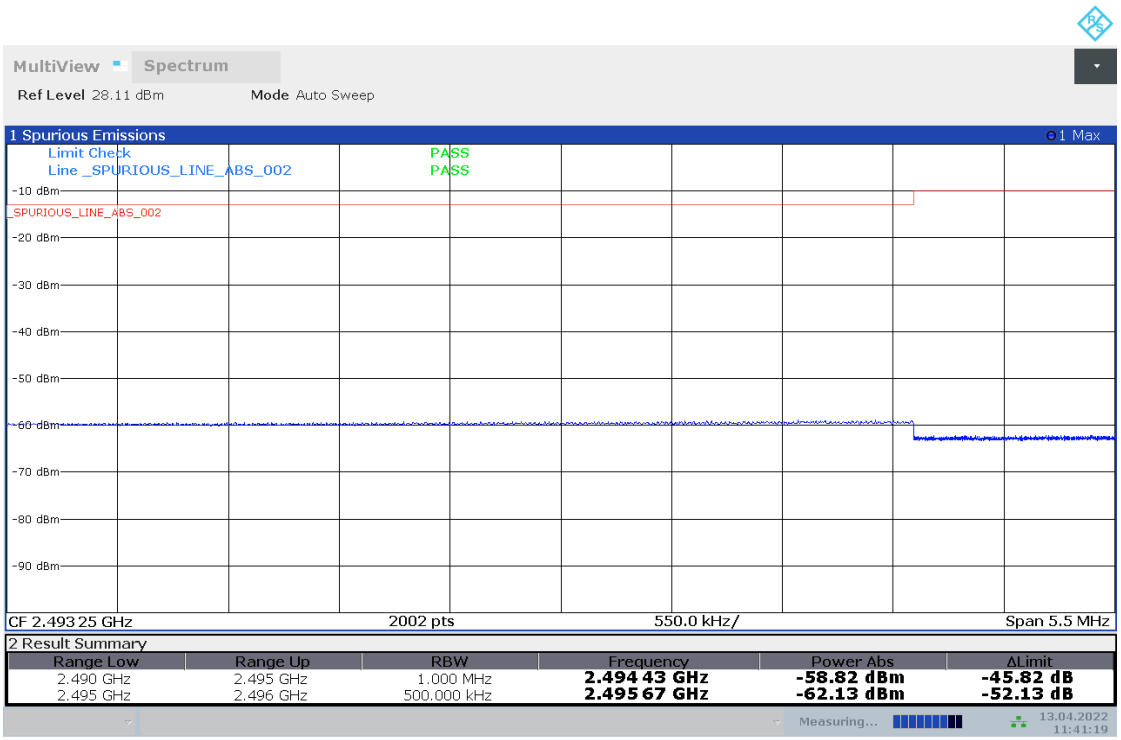

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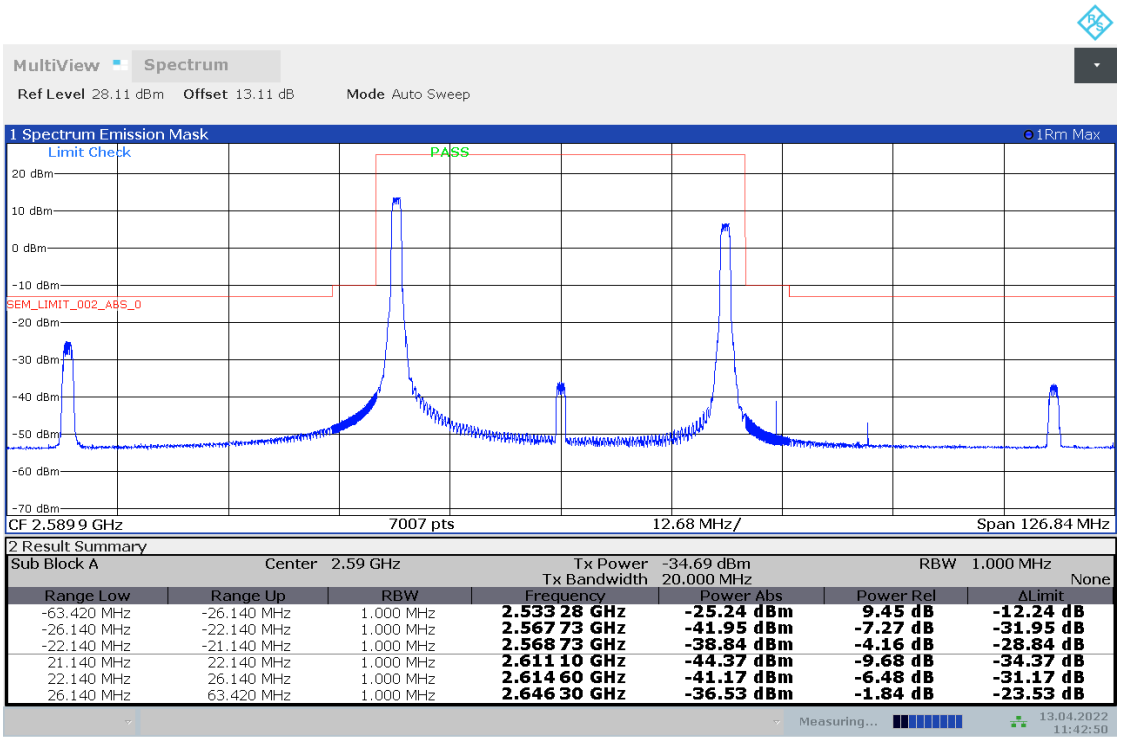
3.2.6 TM1_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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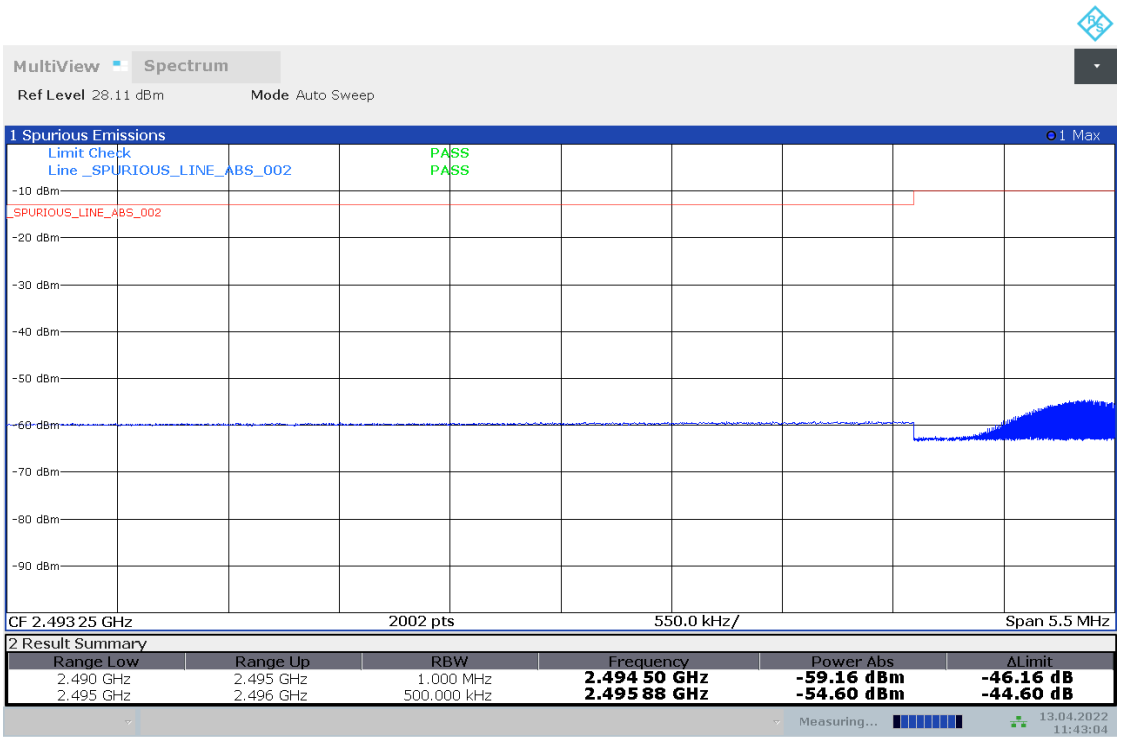

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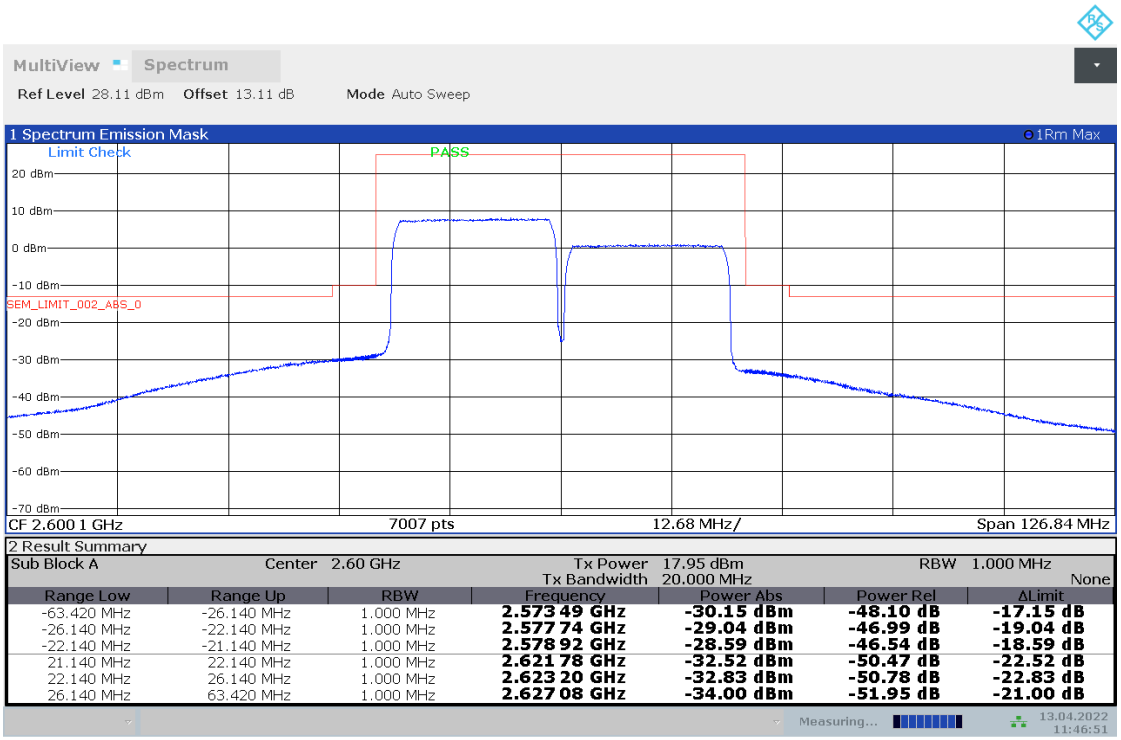
3.2.7 TM1_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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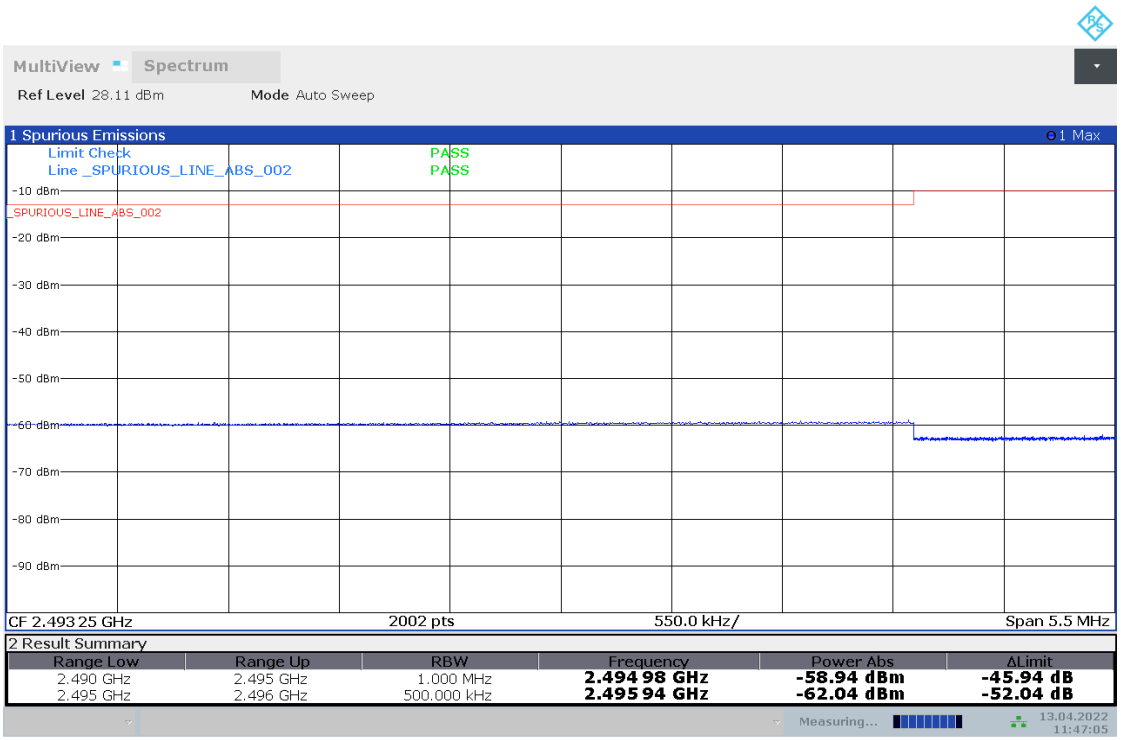

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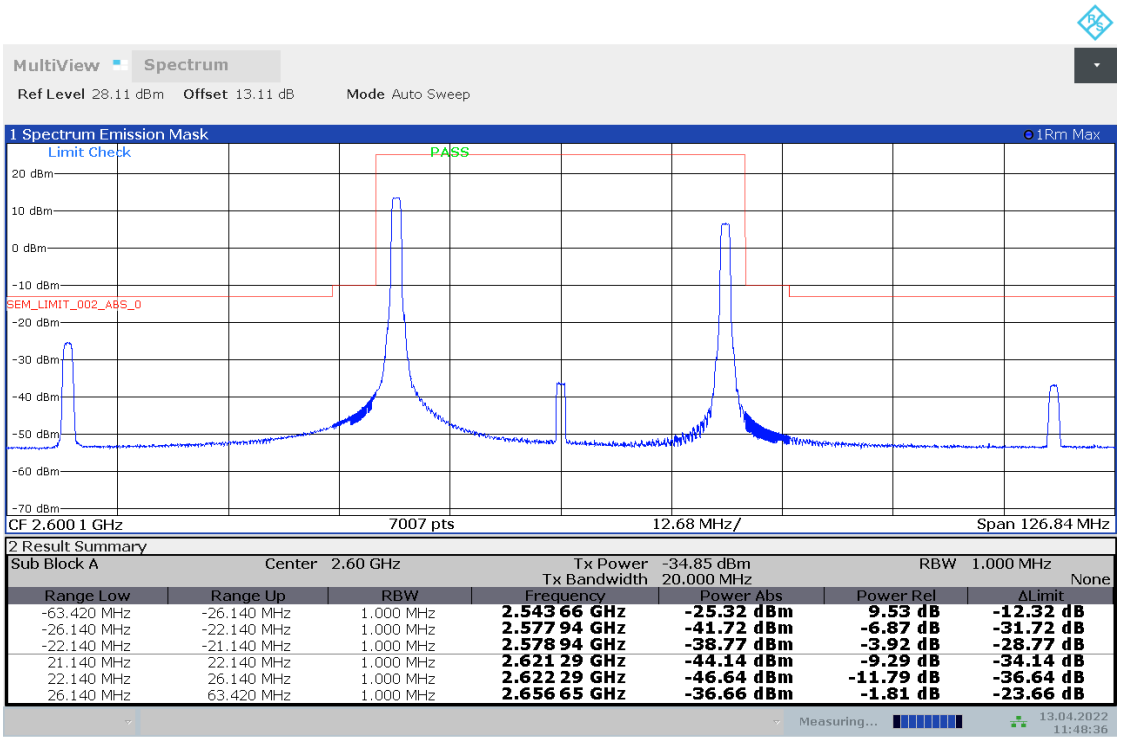
3.2.8 TM1_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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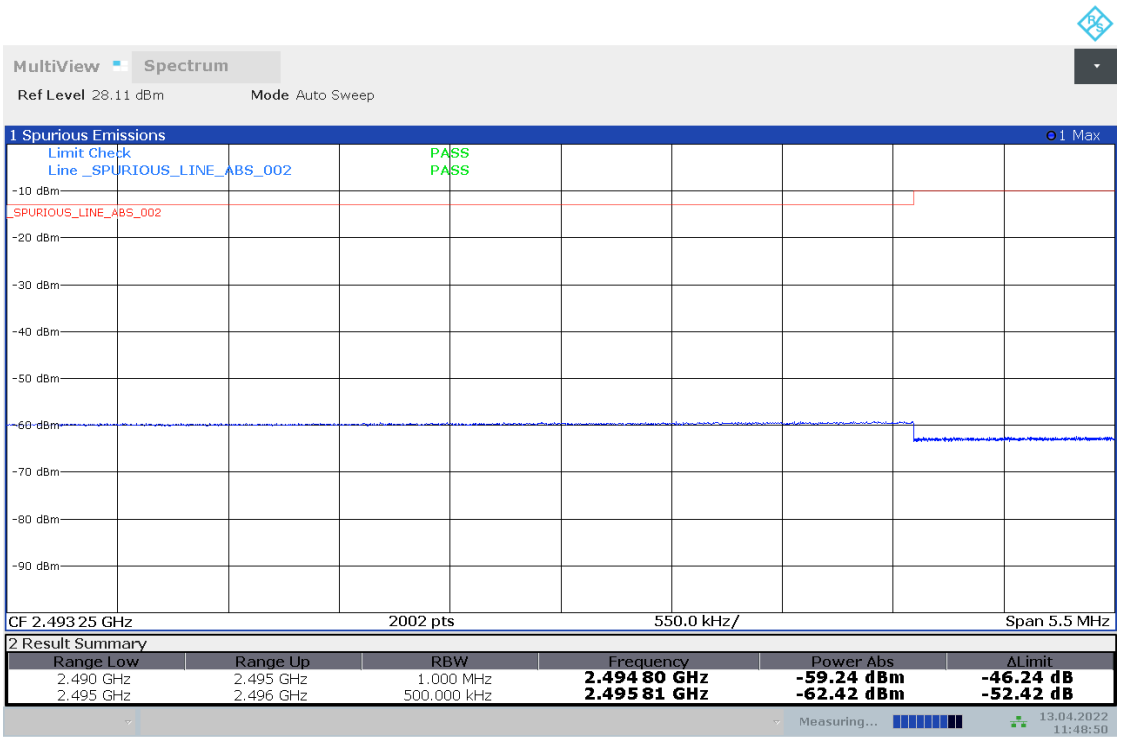

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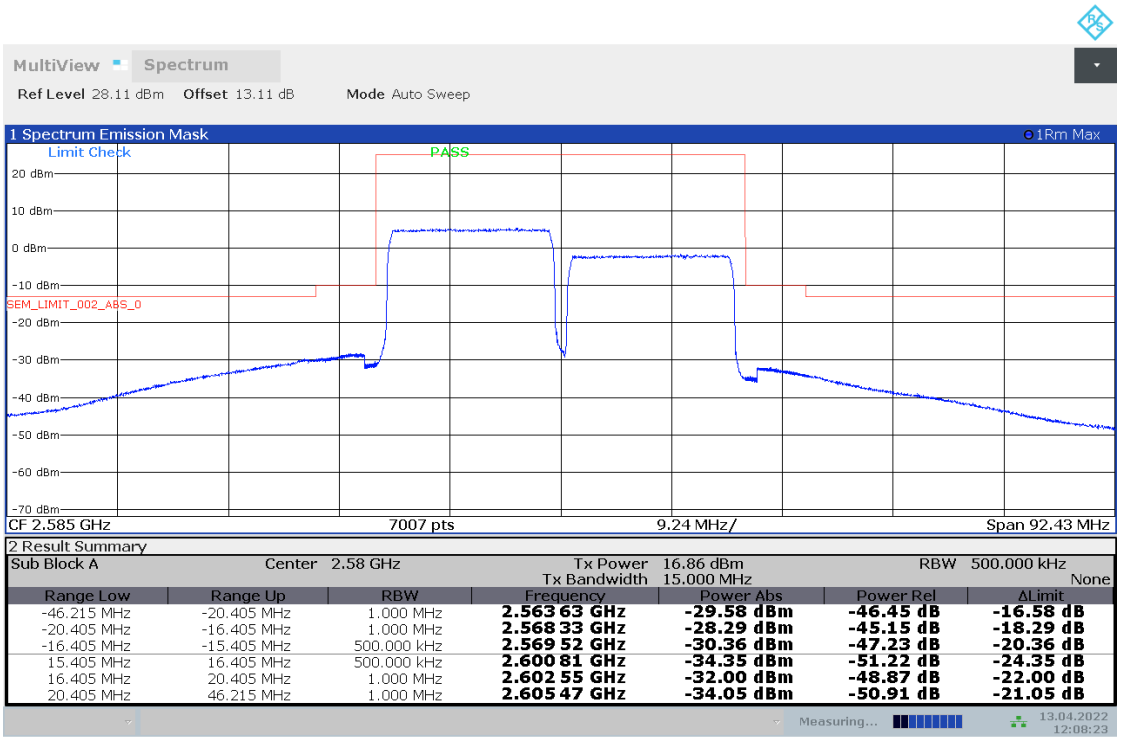
3.2.9 TM2_LCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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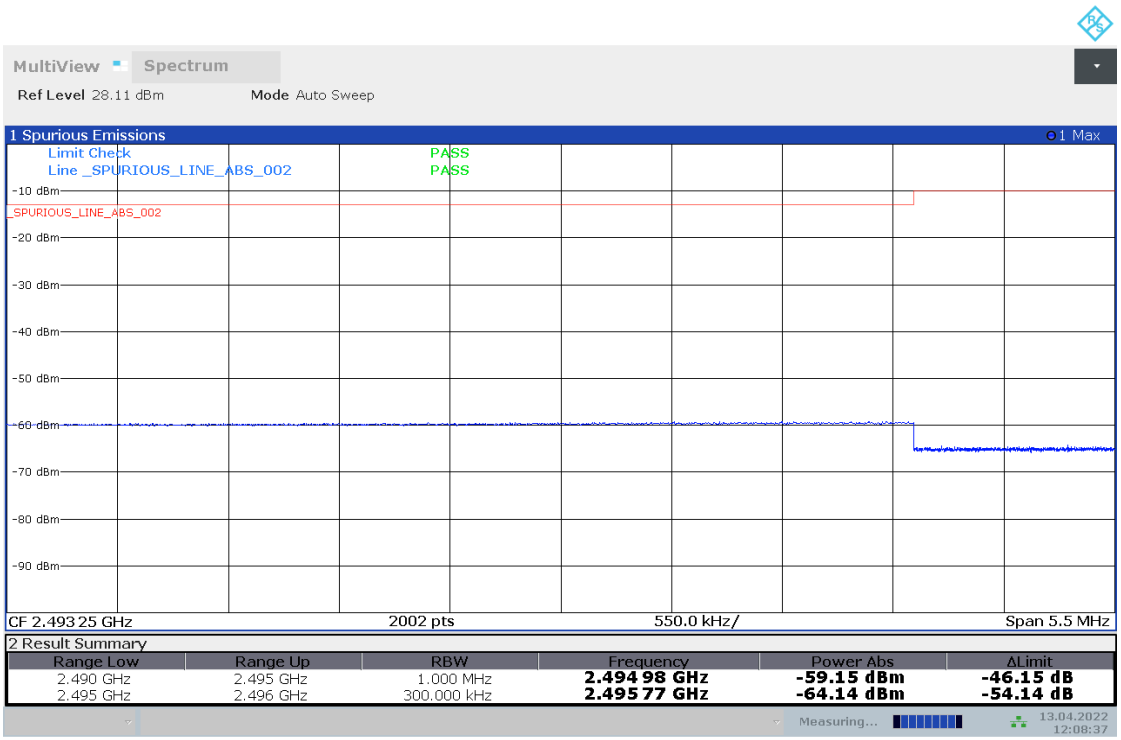

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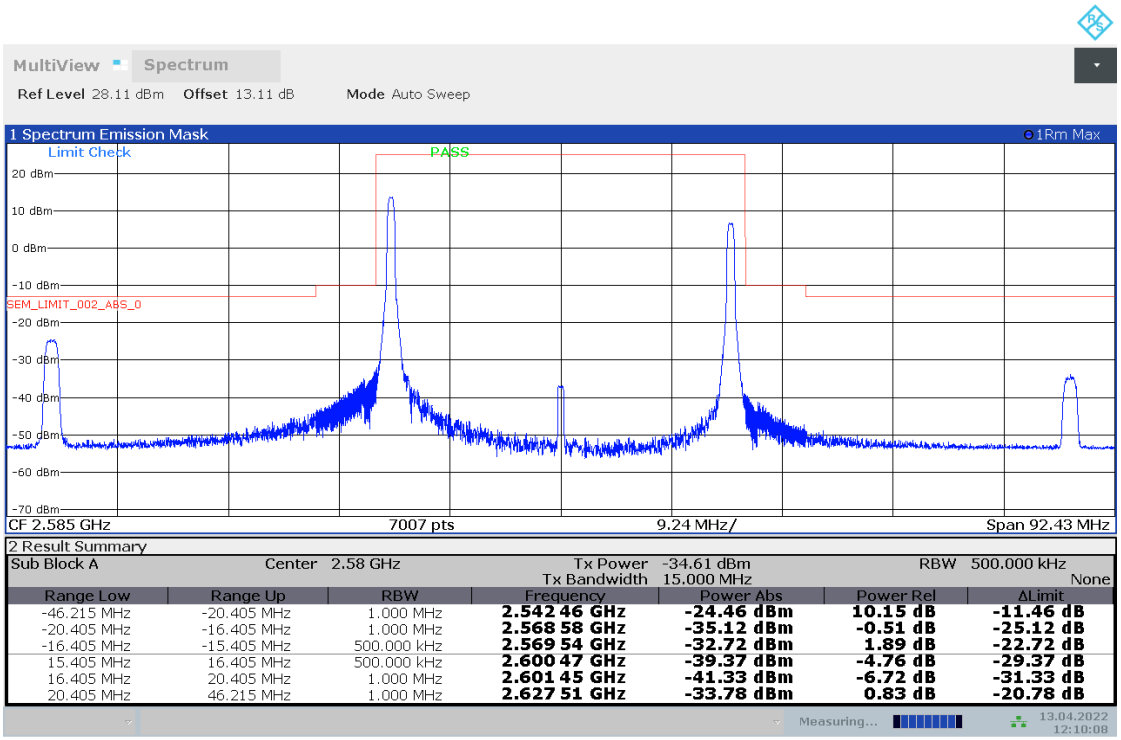
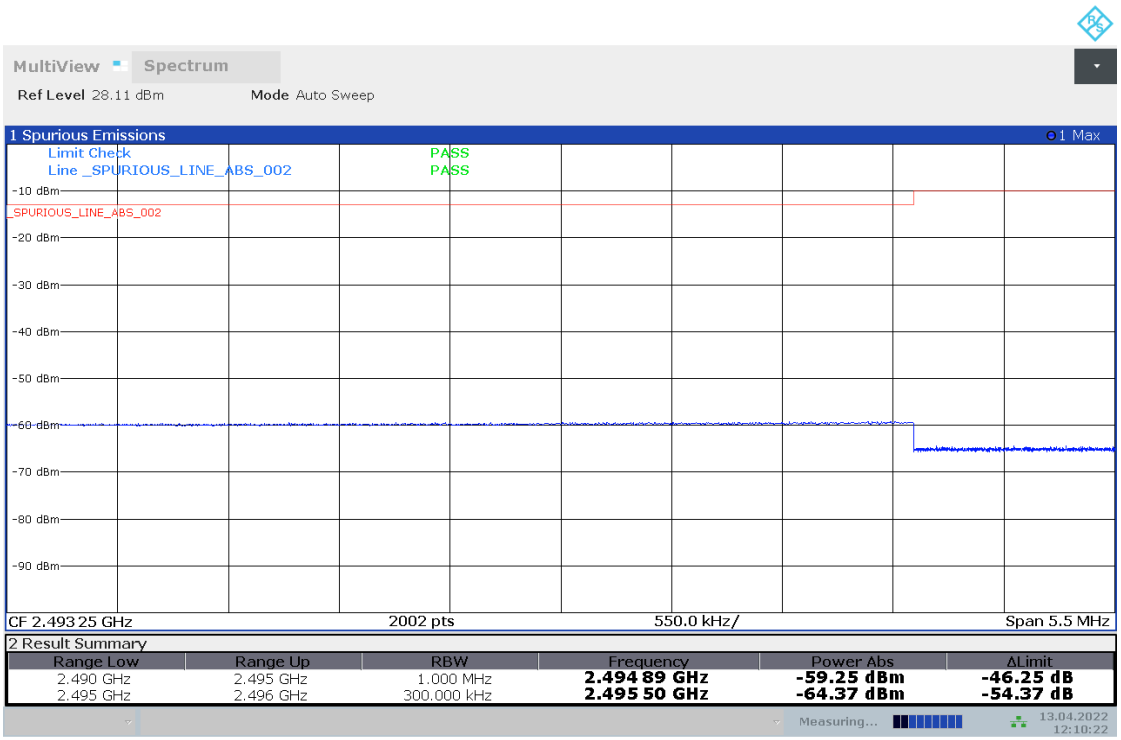
3.2.10 TM2_LCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



12:10:08 13.04.2022



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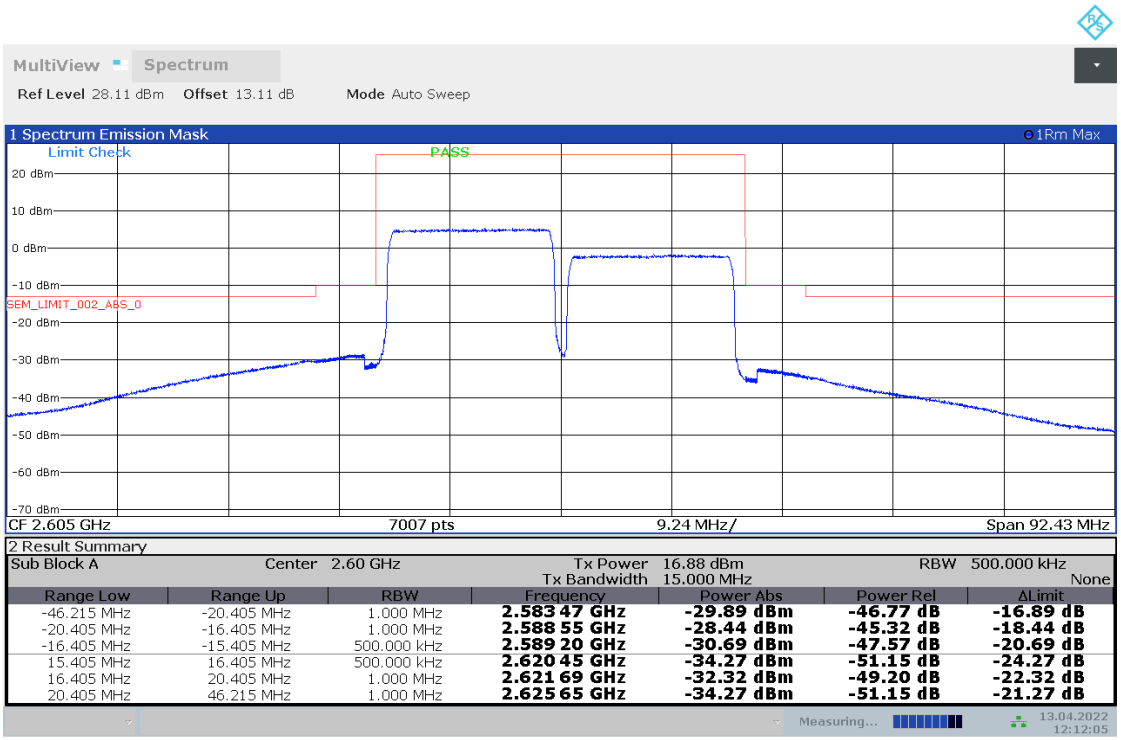
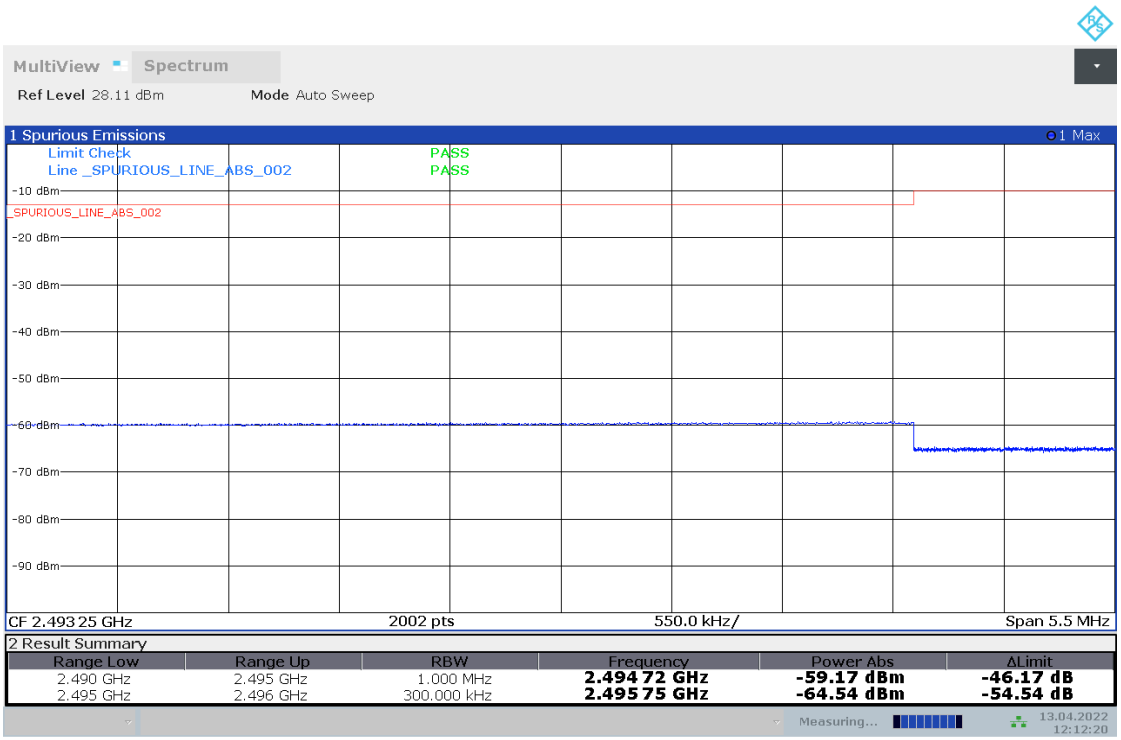
3.2.11 TM2_HCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0

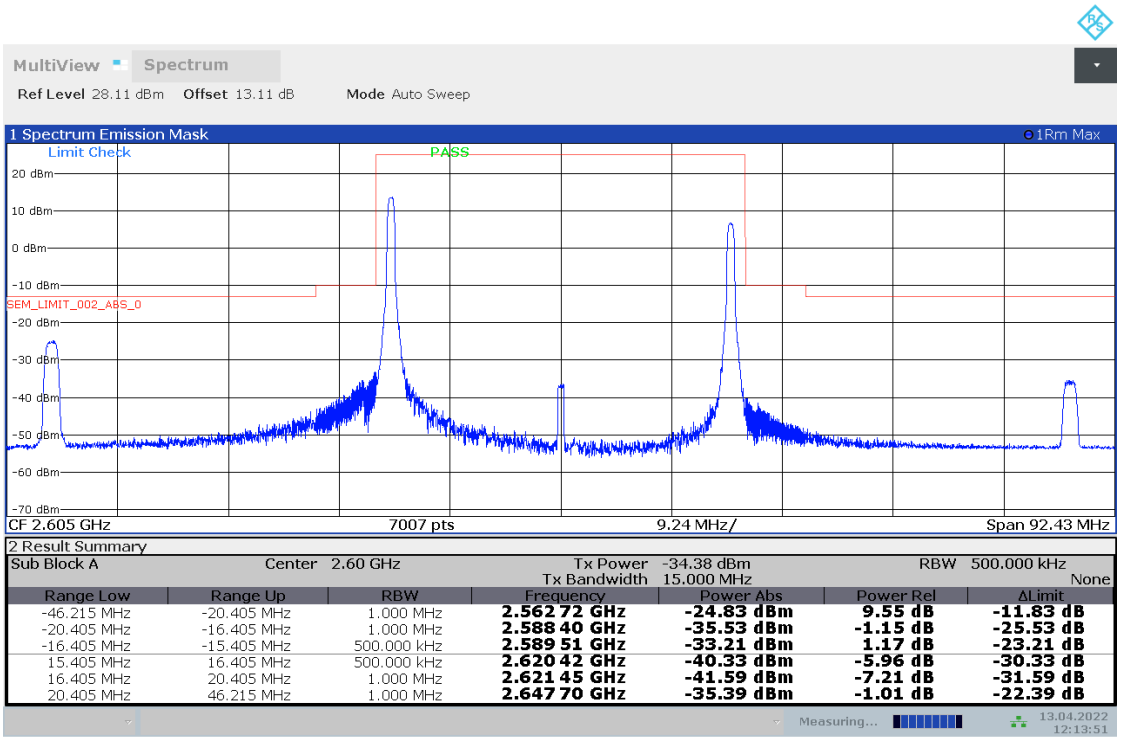


12:12:06 13.04.2022

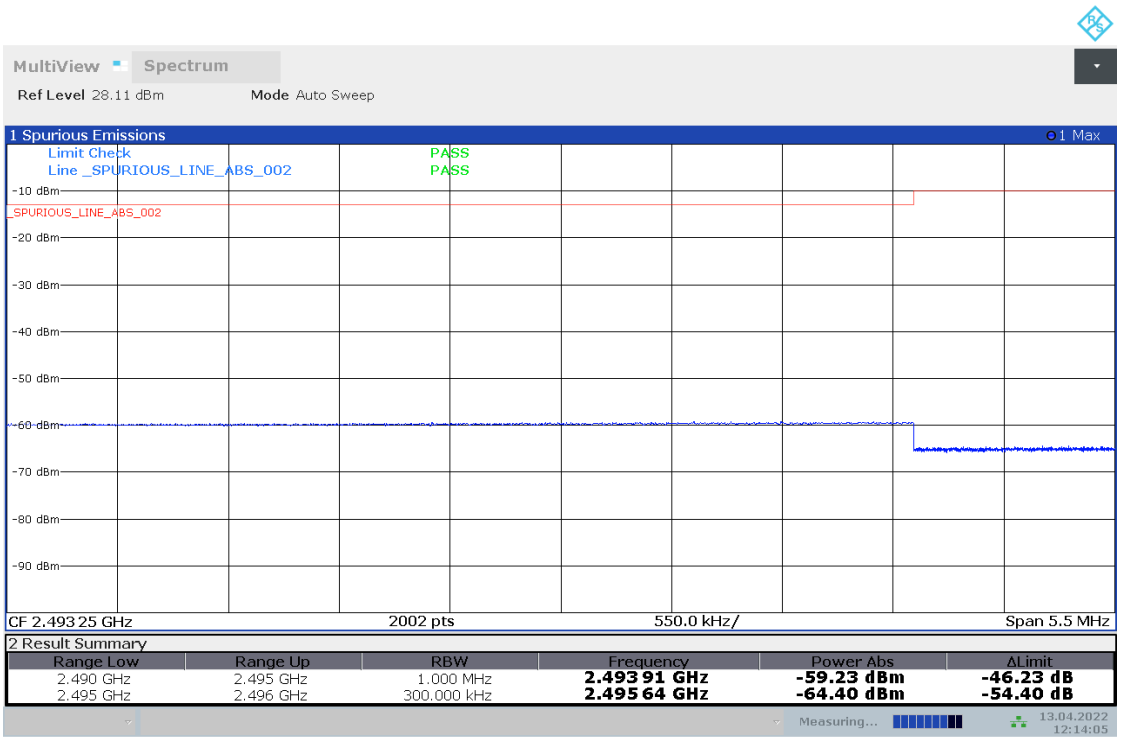


12:12:21 13.04.2022

3.2.12 TM2_HCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74

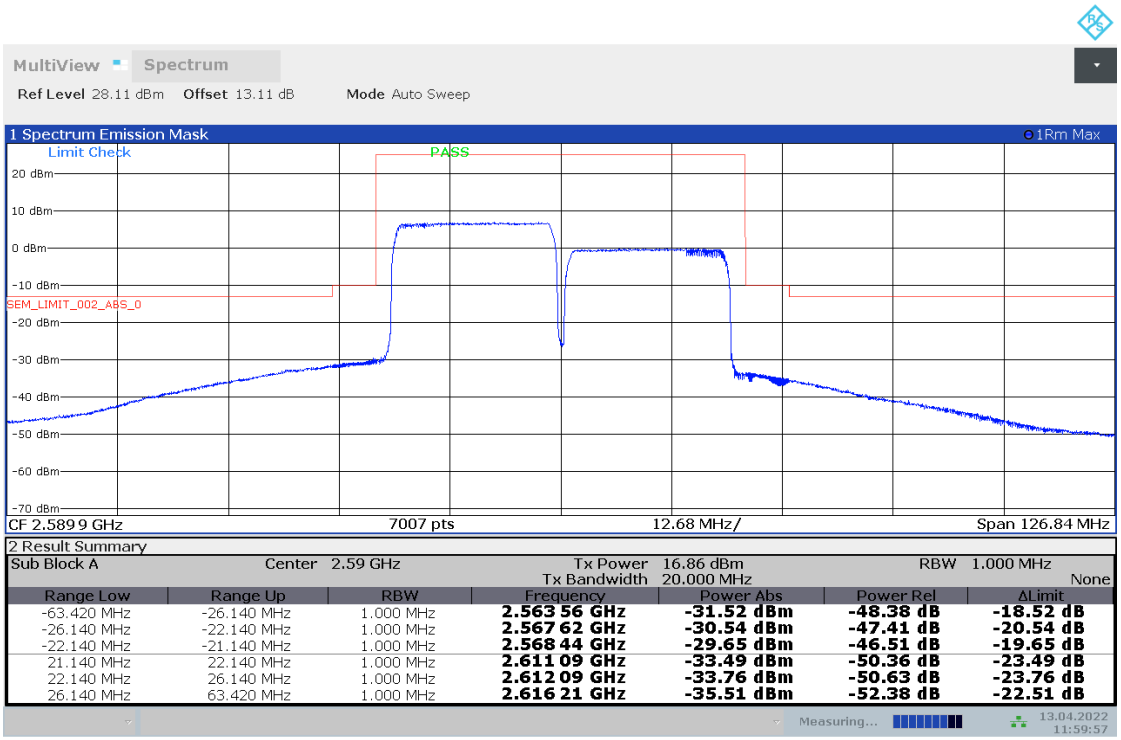


12:13:51 13.04.2022



12:14:06 13.04.2022

3.2.13 TM2_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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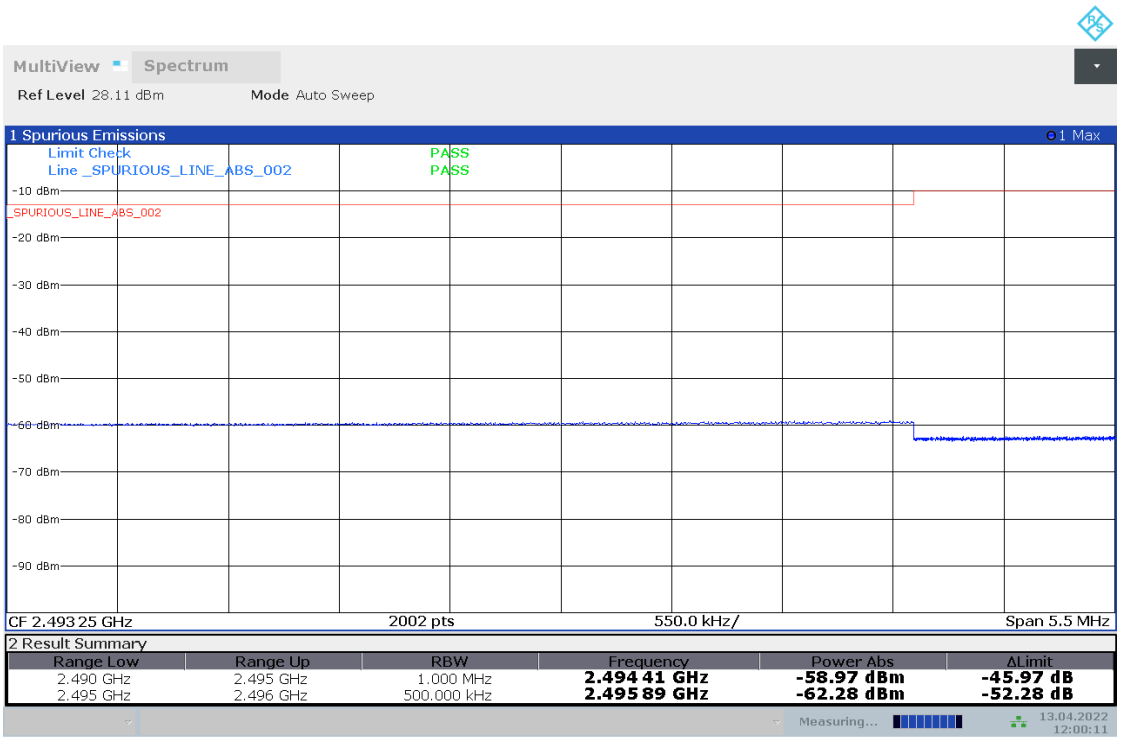
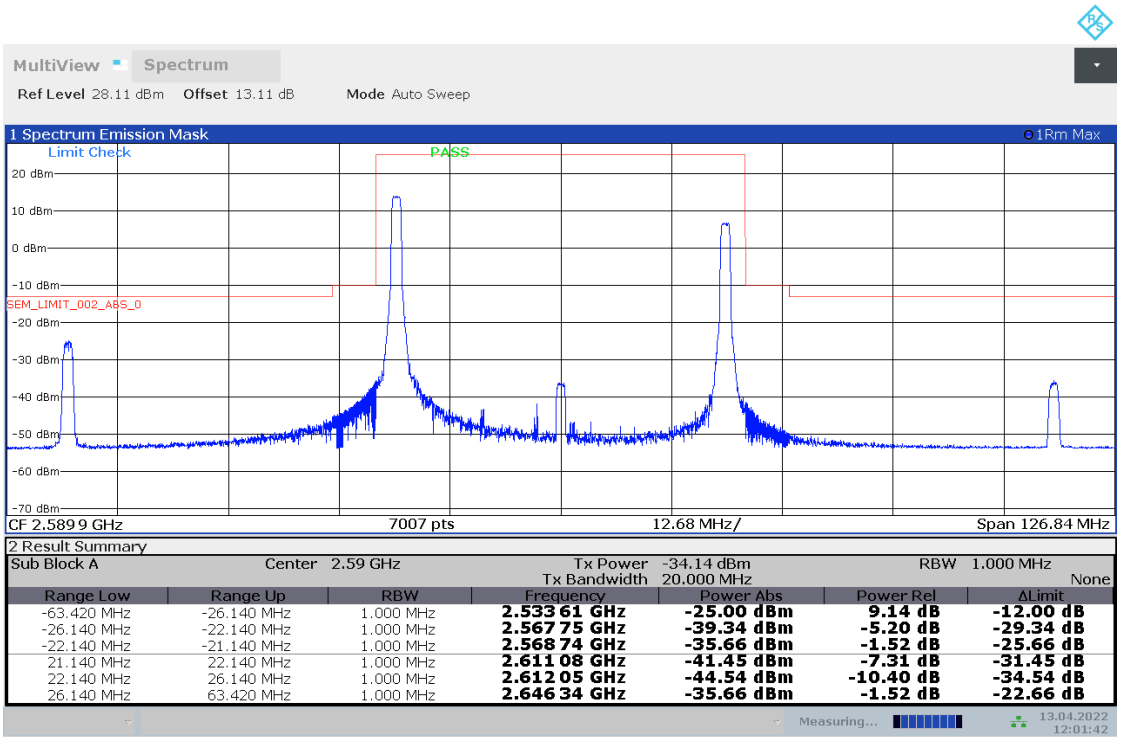
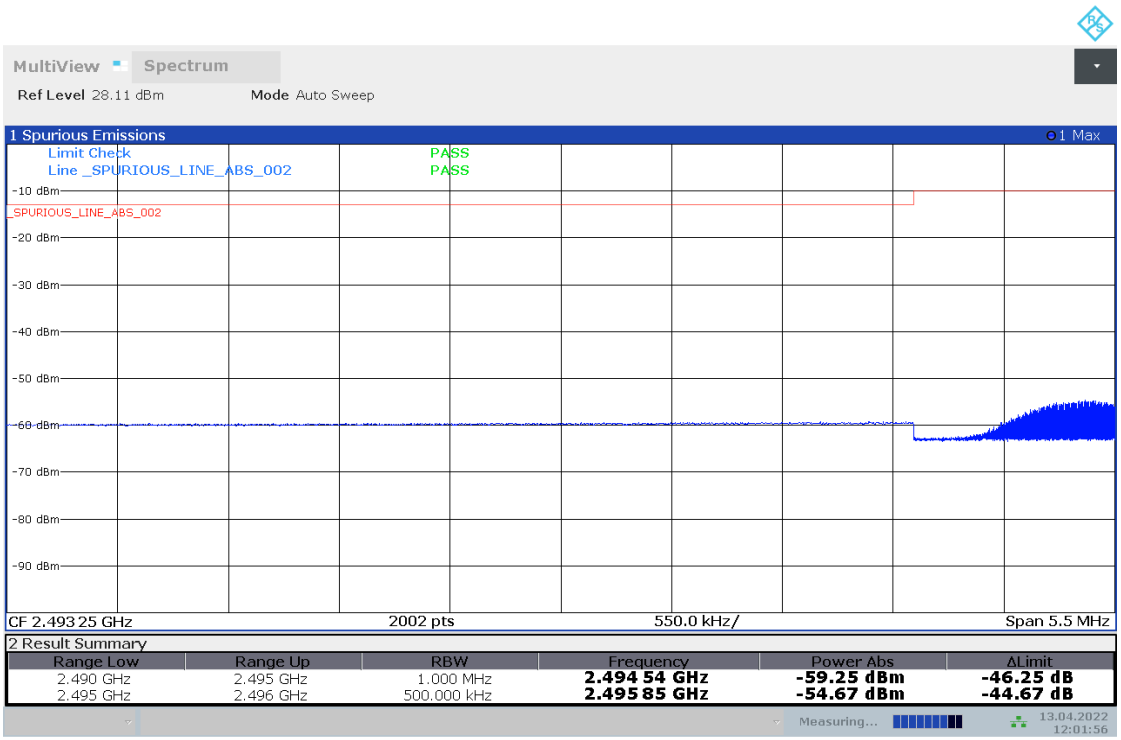


12:00:12 13.04.2022

3.2.14 TM2_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99

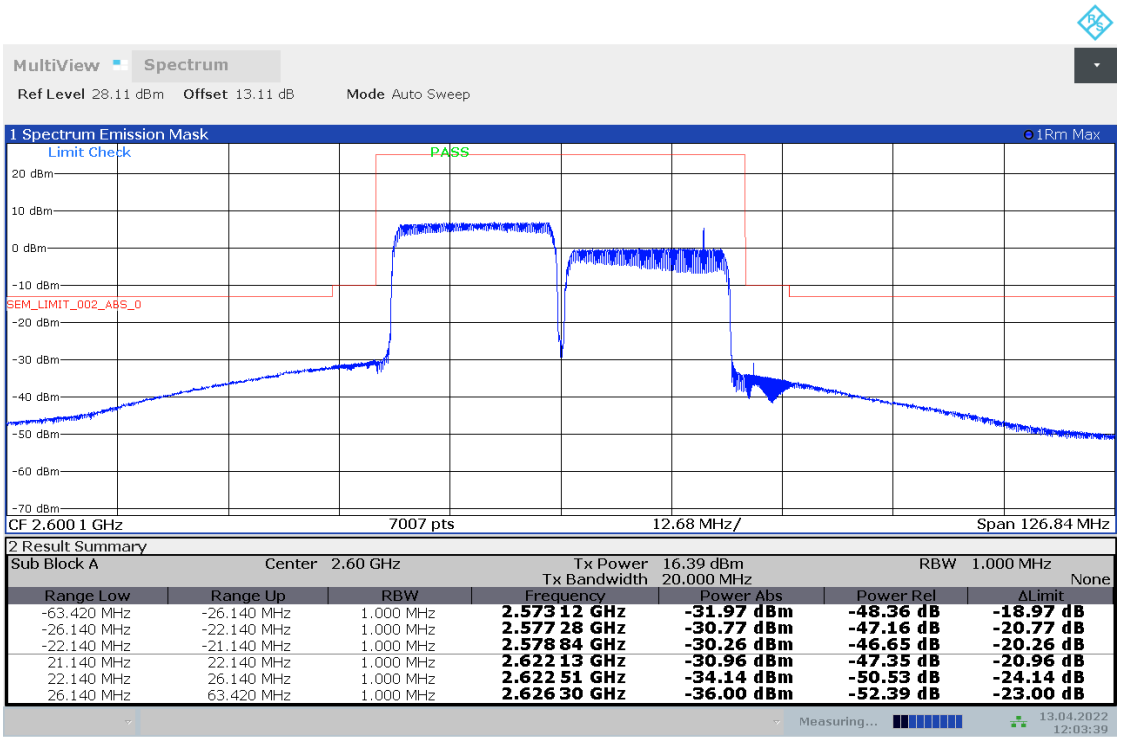


12:01:42 13.04.2022

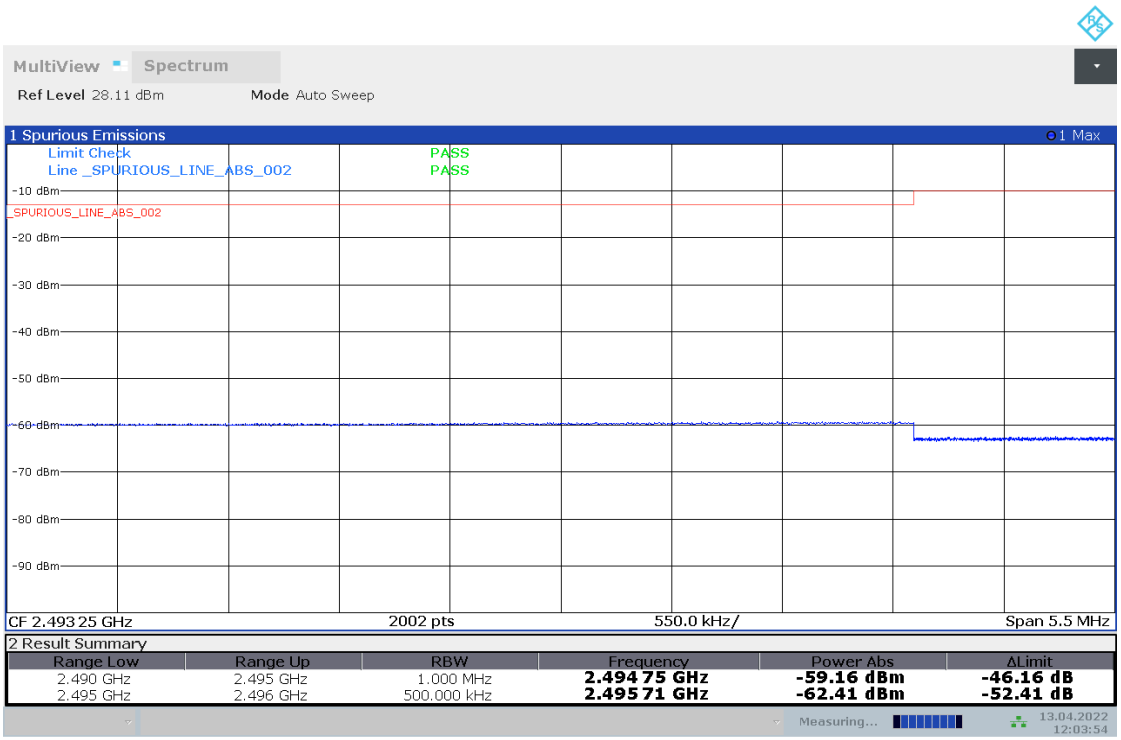


12:01:57 13.04.2022

3.2.15 TM2_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0

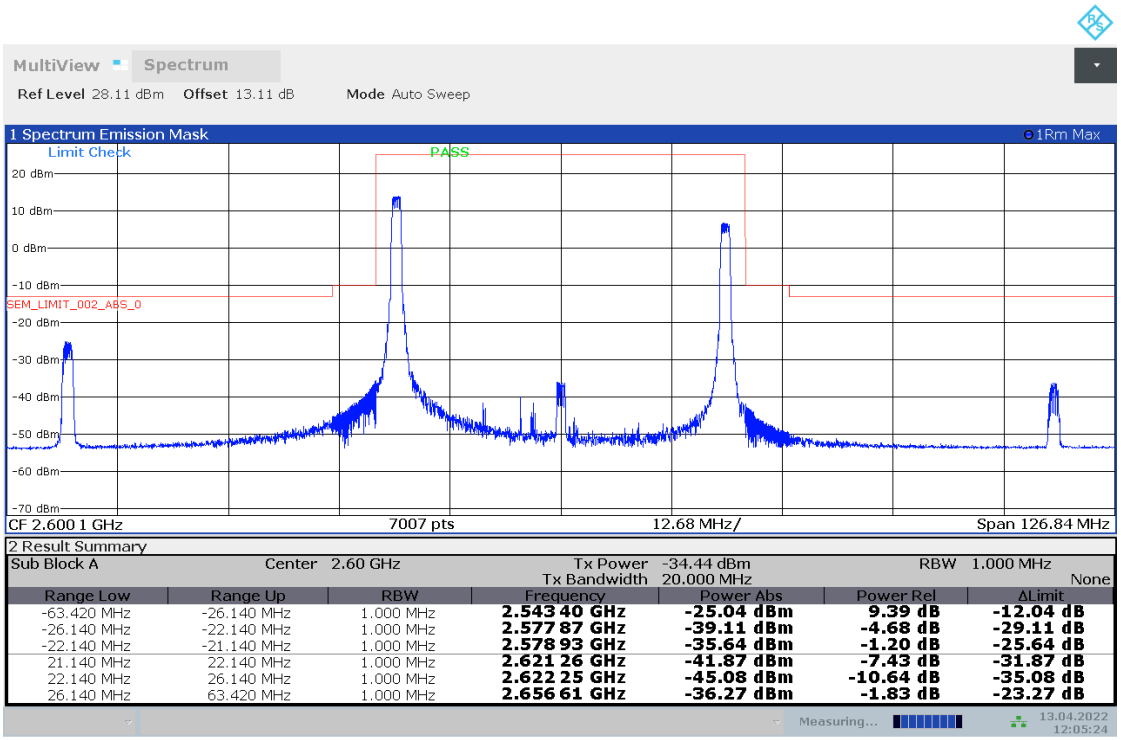


12:03:40 13.04.2022



12:03:55 13.04.2022

3.2.16 TM2_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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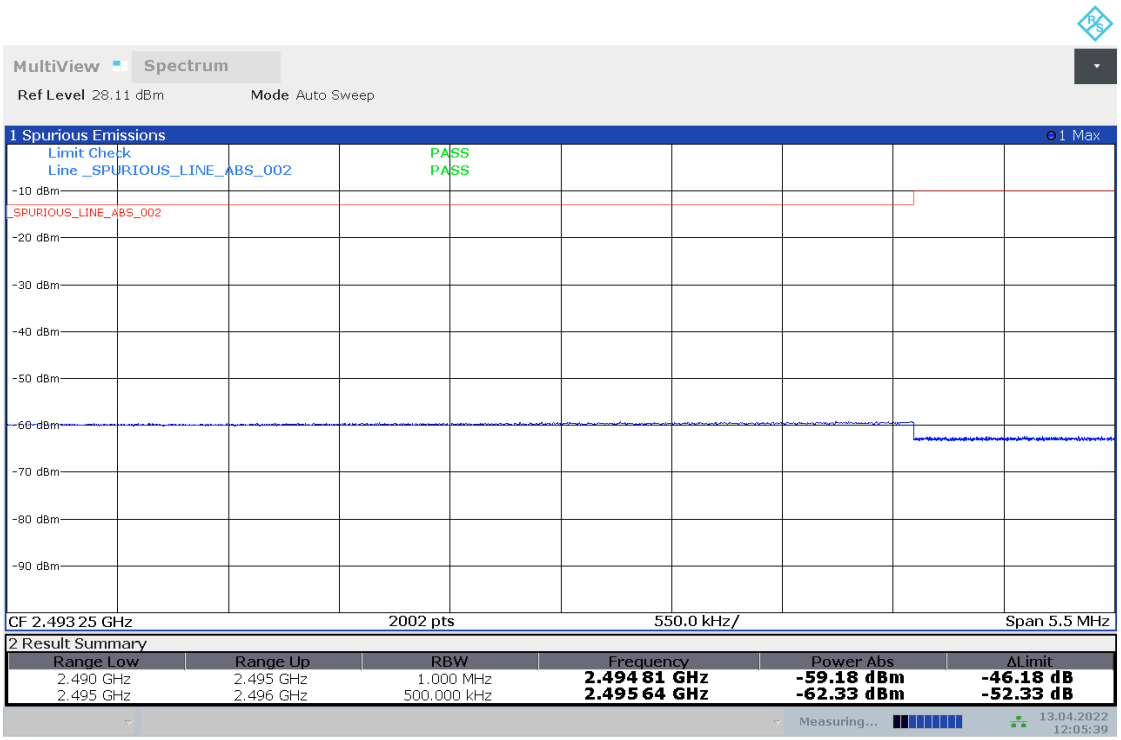
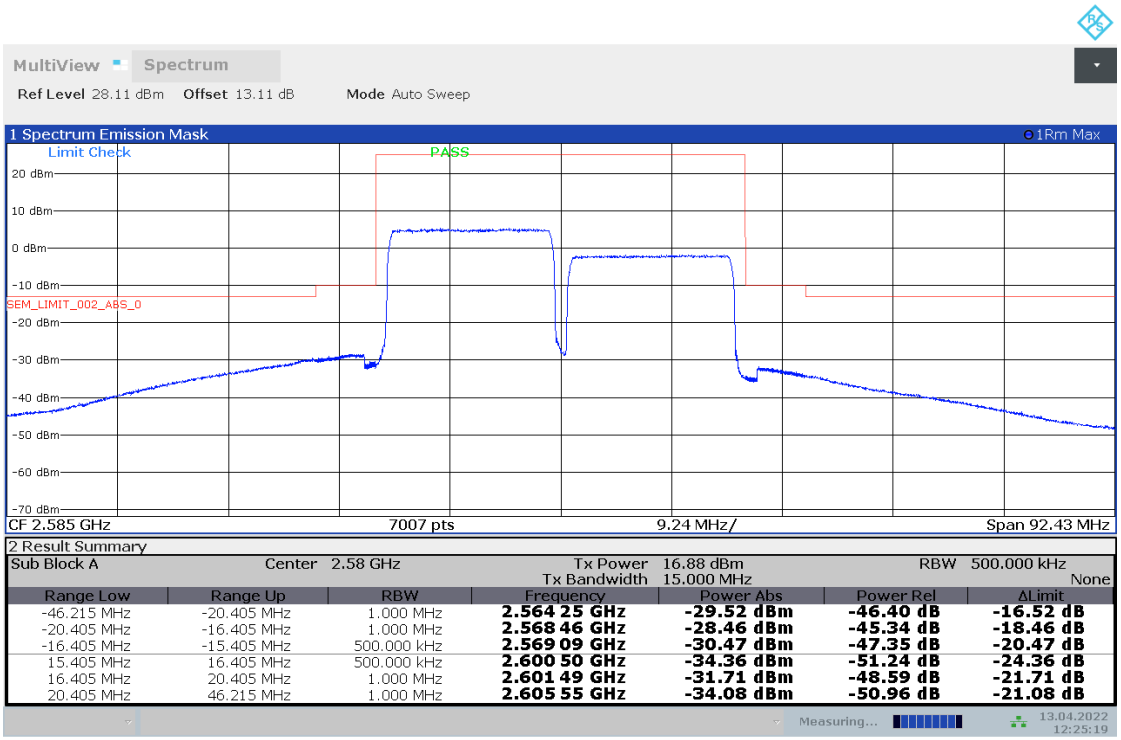


12:05:40 13.04.2022

3.2.17 TM3_LCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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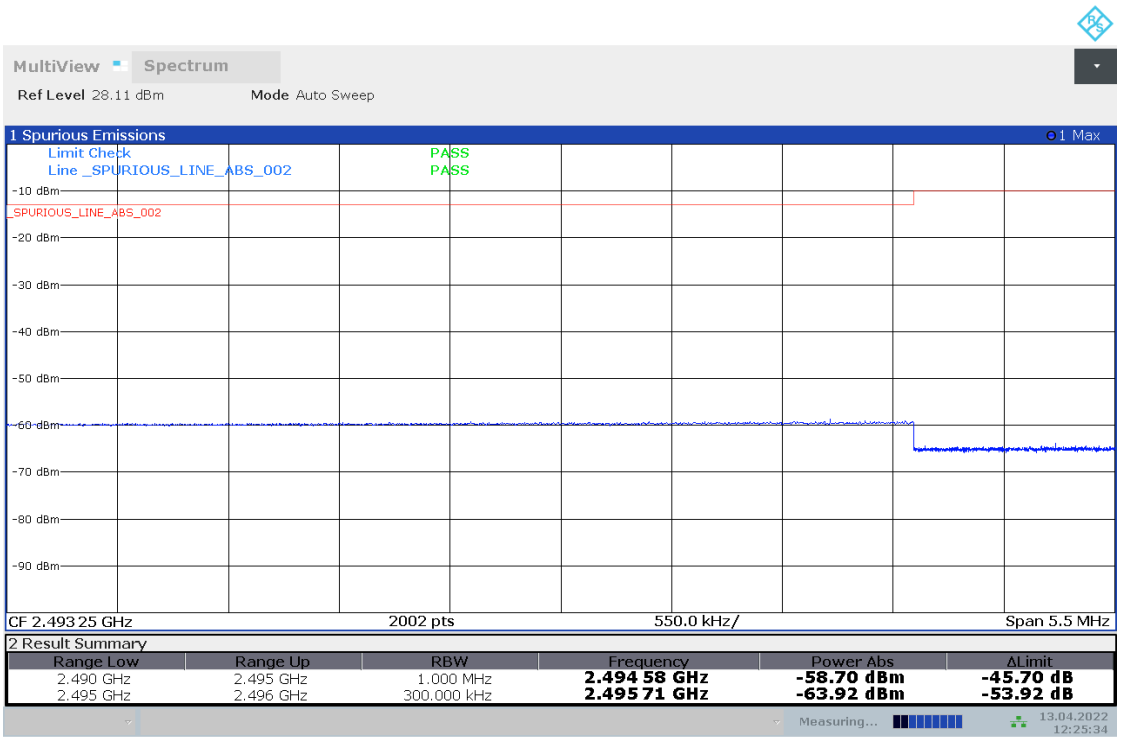

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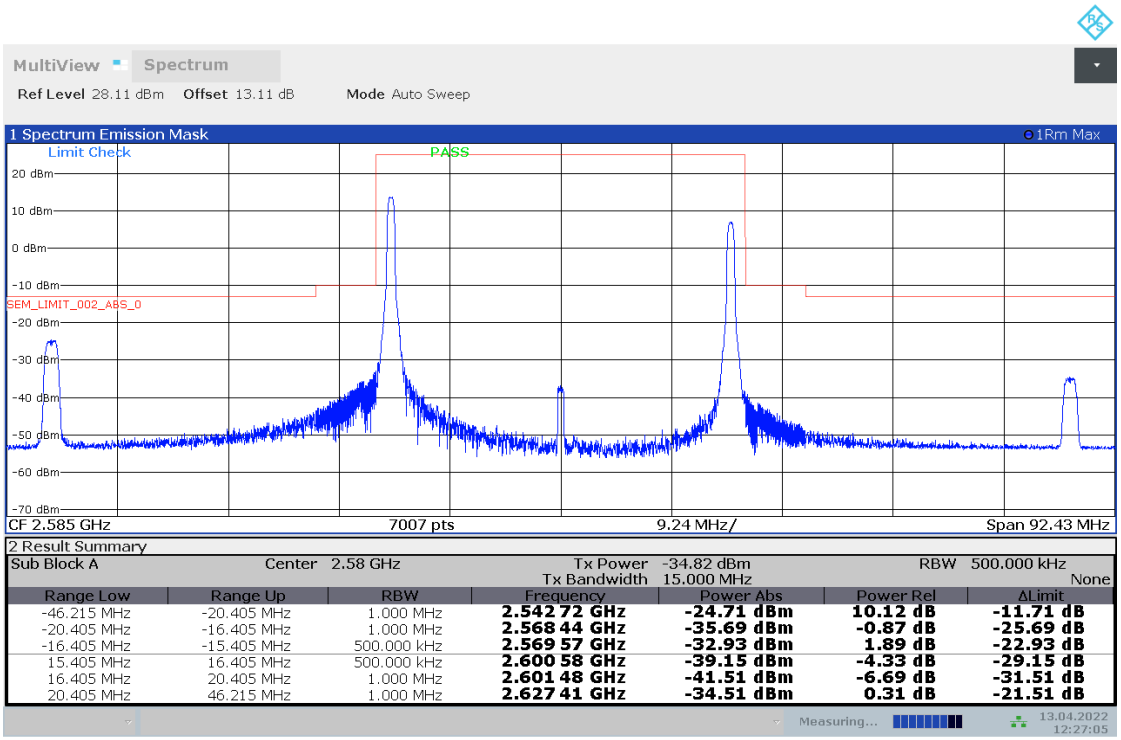
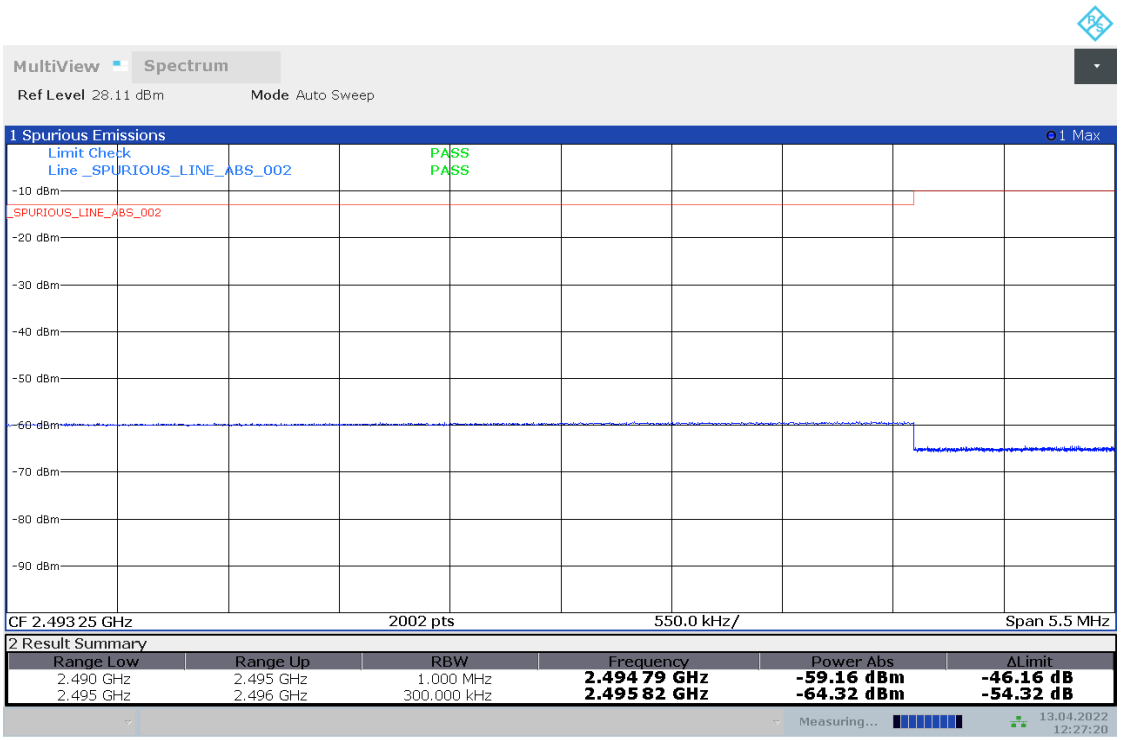
3.2.18 TM3_LCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



12:27:06 13.04.2022



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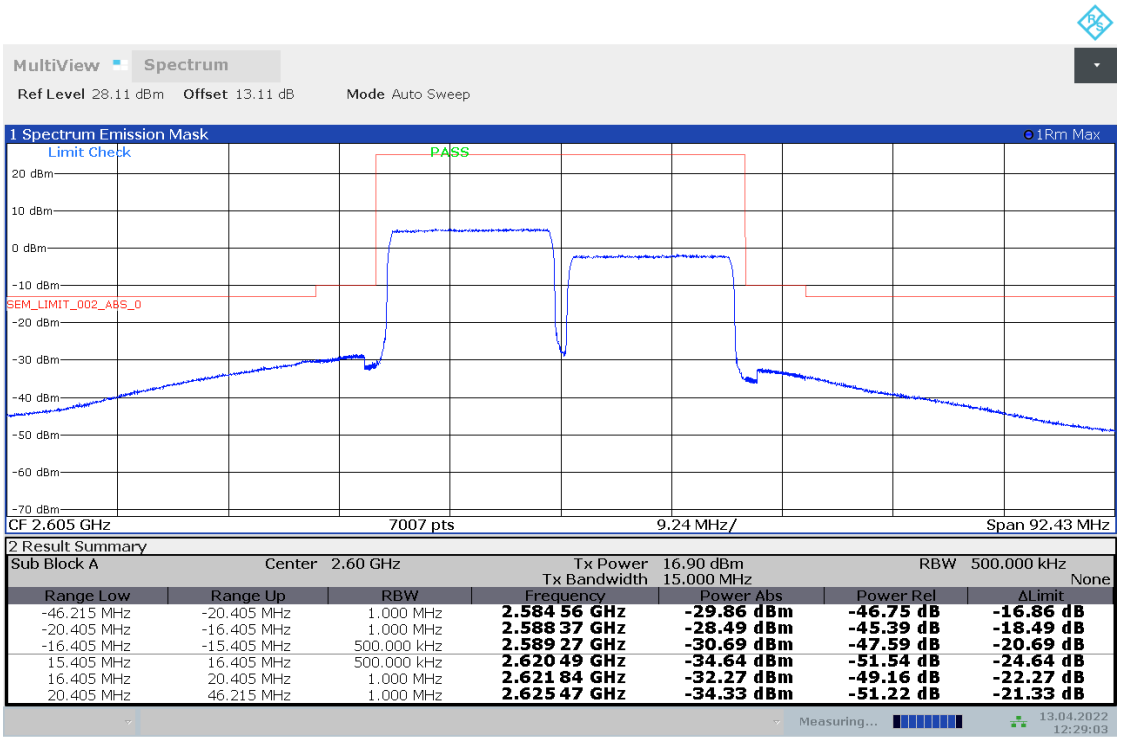
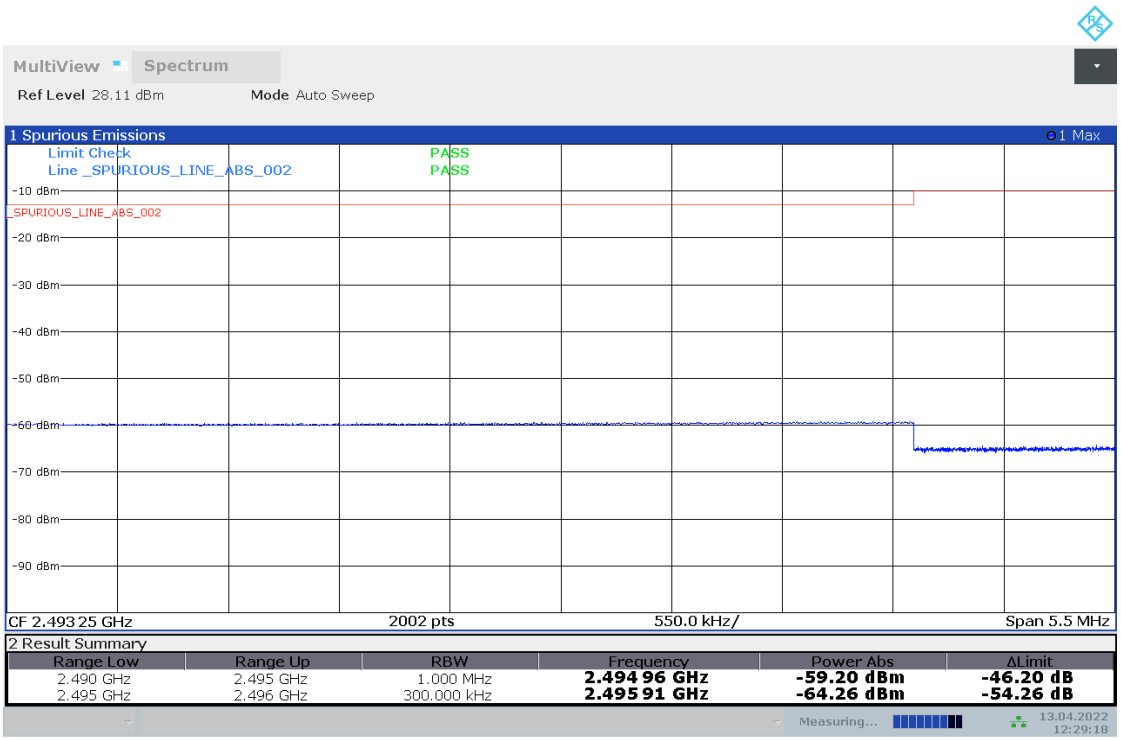
3.2.19 TM3_HCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0

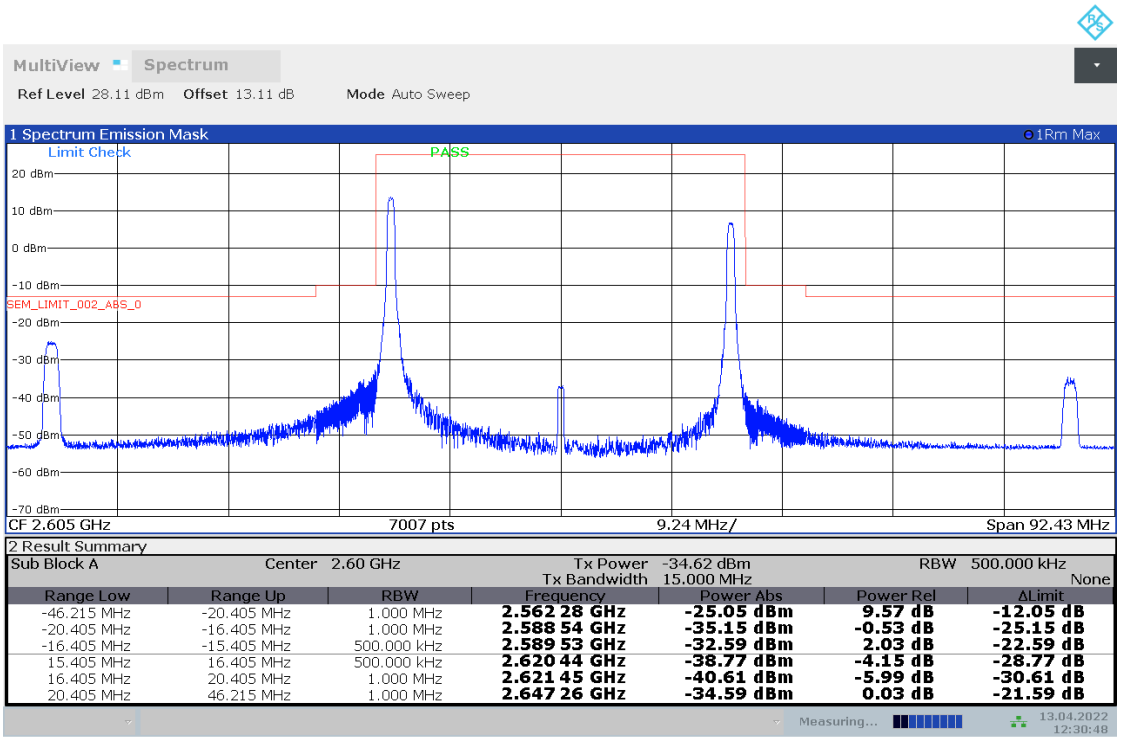


12:29:03 13.04.2022



12:29:18 13.04.2022

3.2.20 TM3_HCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



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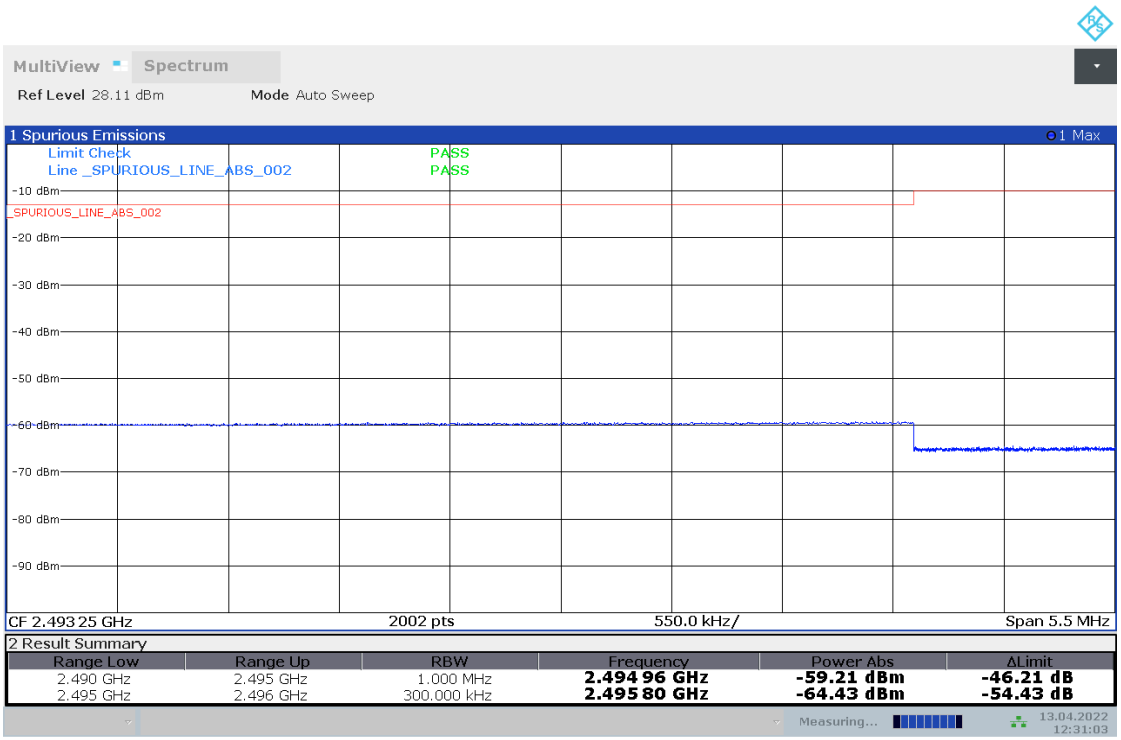
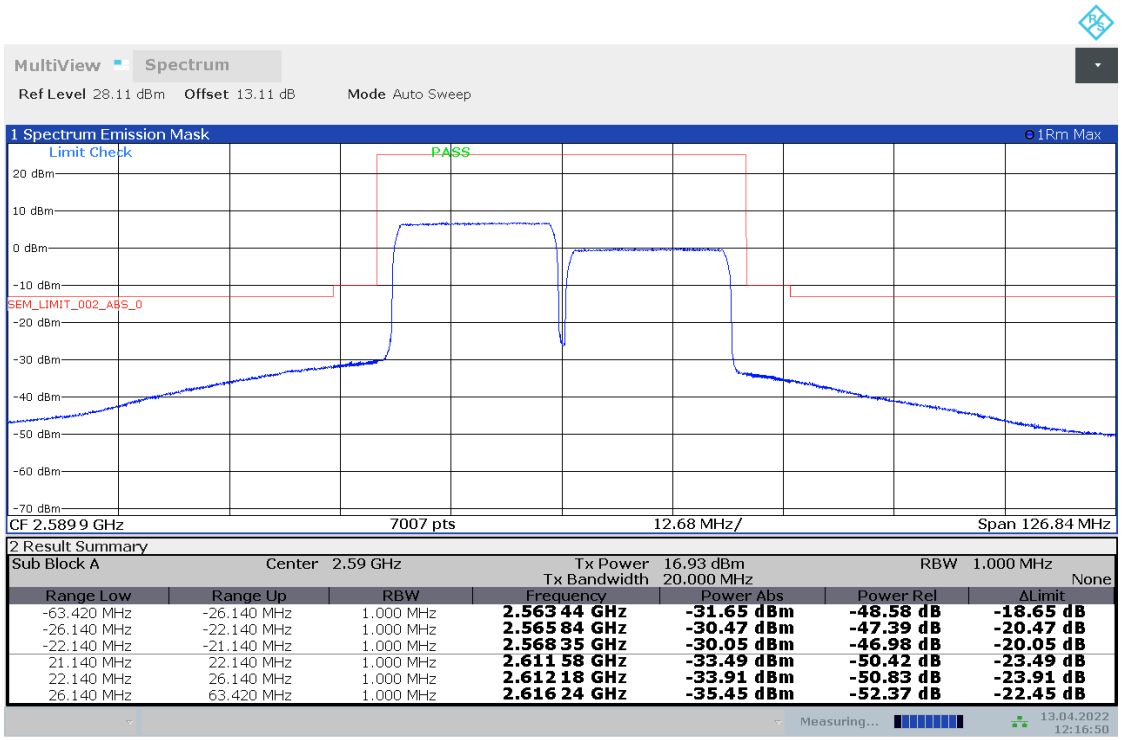
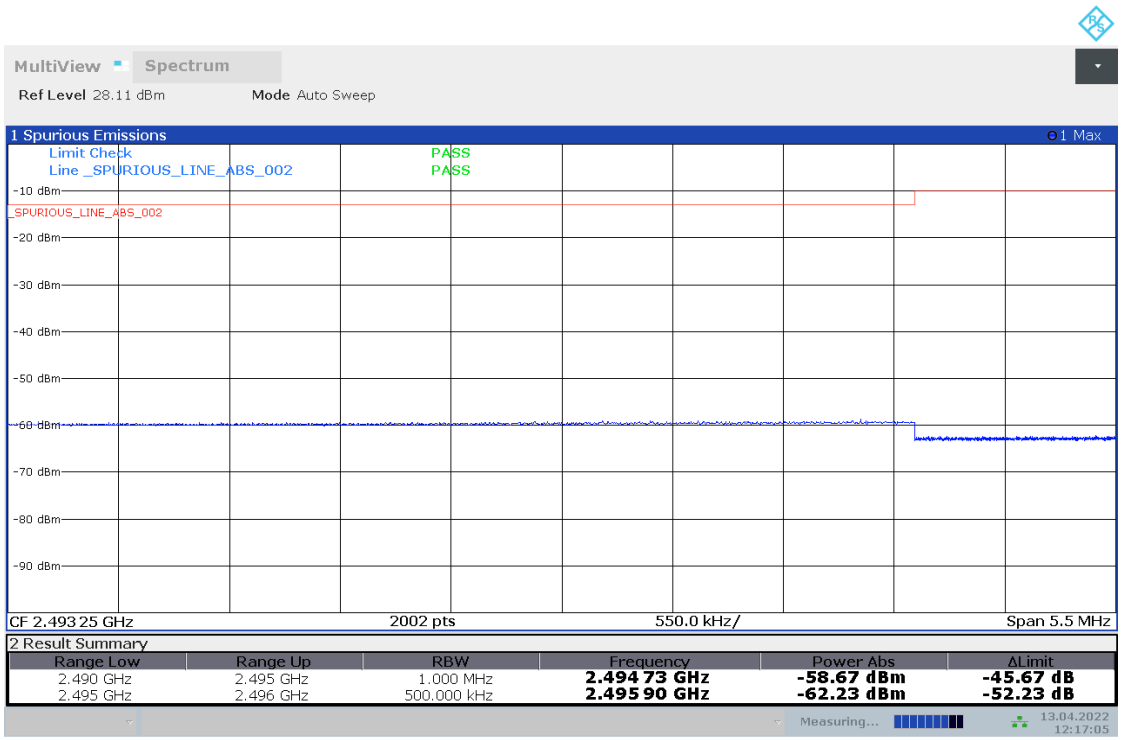


12:31:03 13.04.2022

3.2.21 TM3_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



12:16:51 13.04.2022



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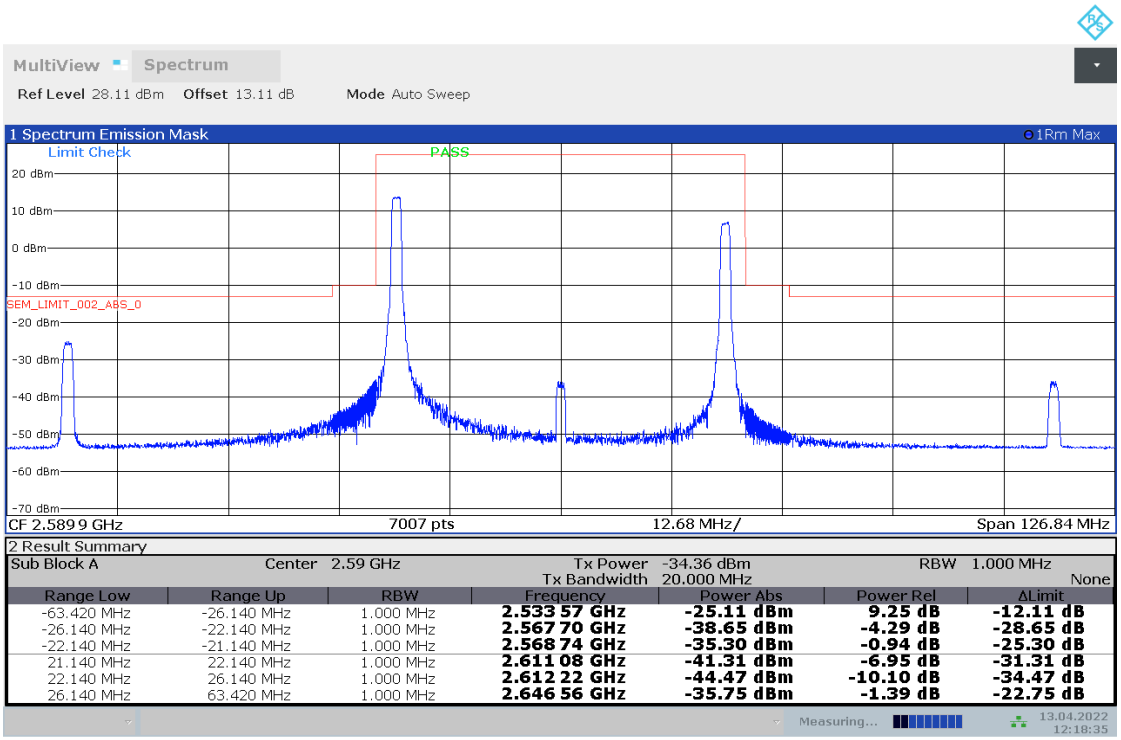
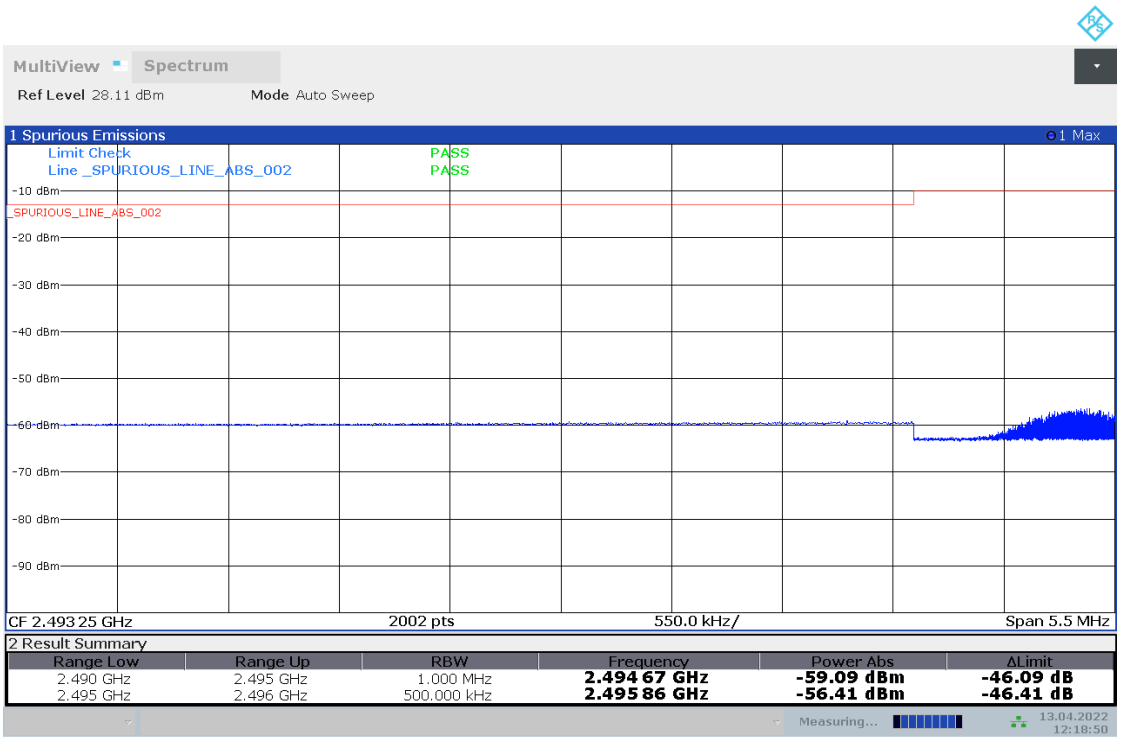
3.2.22 TM3_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99

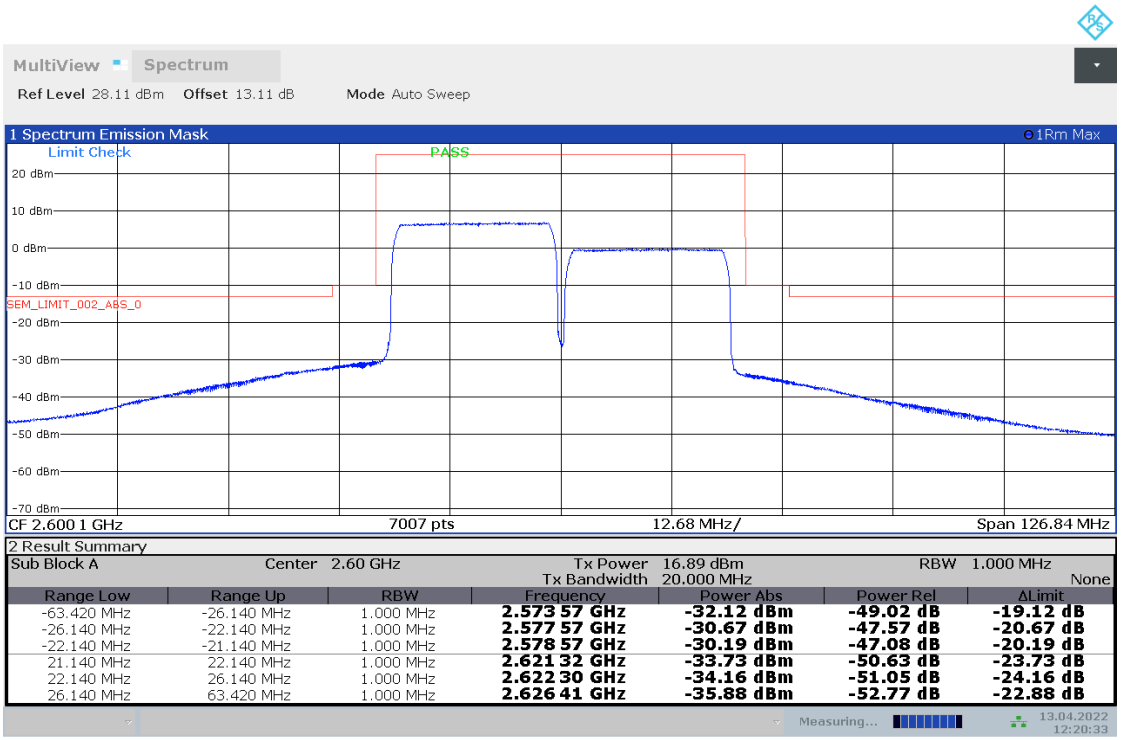


12:18:36 13.04.2022

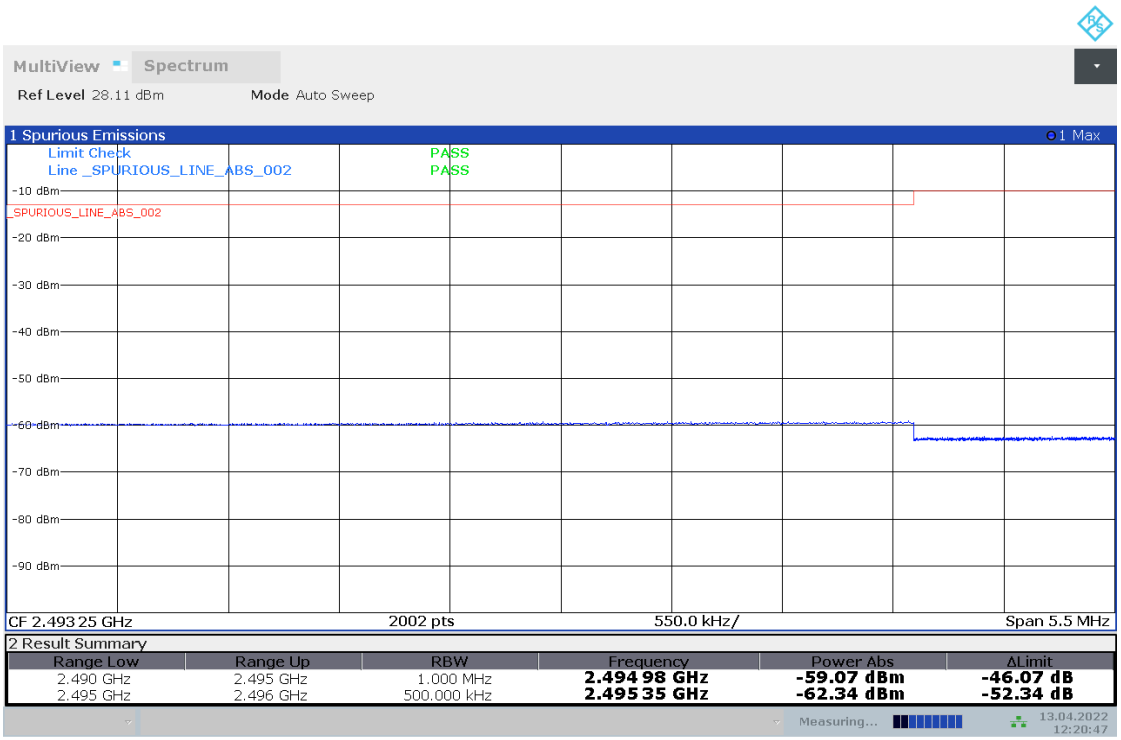


12:18:50 13.04.2022

3.2.23 TM3_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0

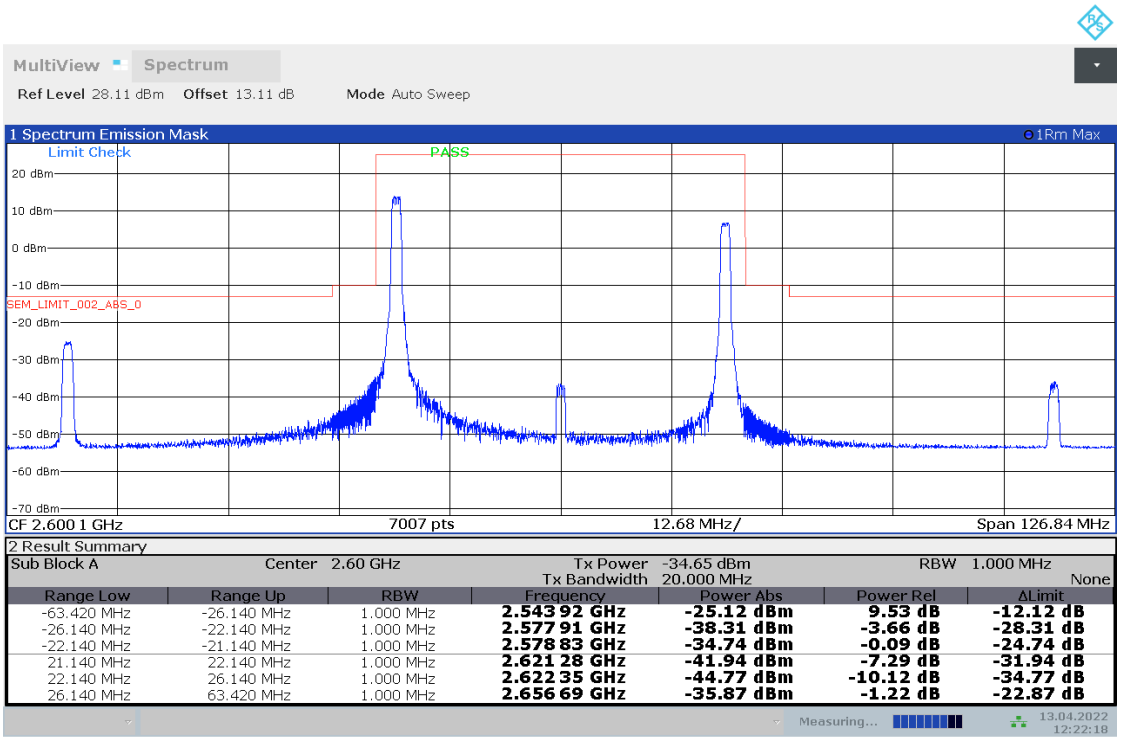


12:20:33 13.04.2022

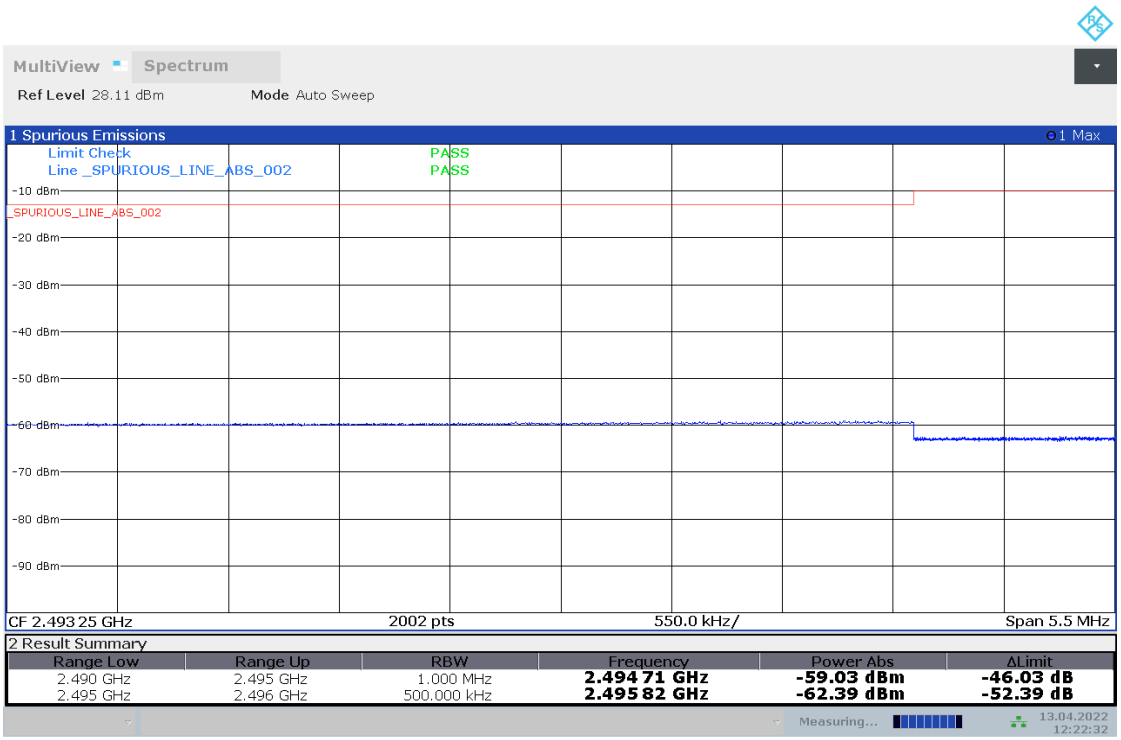


12:20:48 13.04.2022

3.2.24 TM3_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



12:22:19 13.04.2022



12:22:33 13.04.2022

4. APPENDIX D - SPURIOUS EMISSION AT ANTENNA TERMINAL

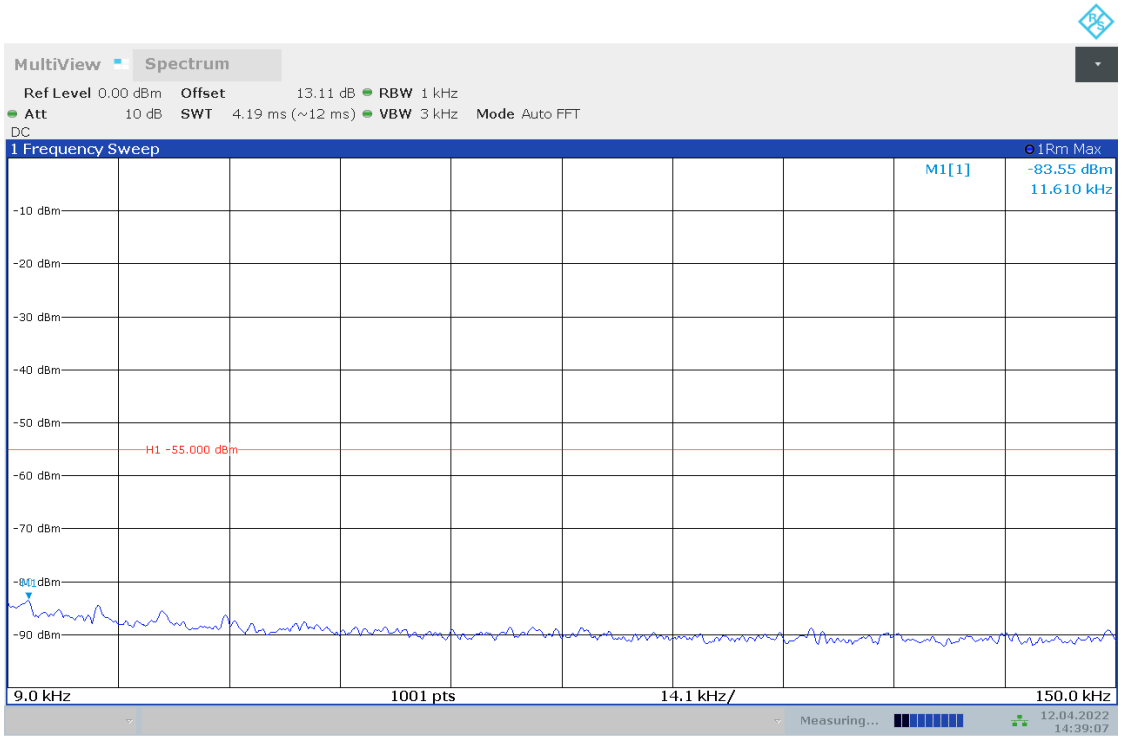
4.1 TEST RESULTS

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	15+15	LCH	RB75#0	RB75#0	QPSK	0.01	-83.55	-55	PASS
				RB75#0	QPSK	29.97	-78.90	-45	PASS
				RB75#0	QPSK	550.67	-53.26	-25	PASS
				RB75#0	QPSK	2553.87	-30.94	-25	PASS
			RB1#0	RB1#74	QPSK	0.01	-84.03	-55	PASS
				RB1#74	QPSK	26.74	-79.32	-45	PASS
				RB1#74	QPSK	614.35	-53.69	-25	PASS
				RB1#74	QPSK	2549.41	-33.97	-25	PASS
		MCH	RB75#0	RB75#0	QPSK	0.01	-84.22	-55	PASS
				RB75#0	QPSK	27.23	-78.92	-45	PASS
				RB75#0	QPSK	91.7	-53.71	-25	PASS
				RB75#0	QPSK	2545.58	-43.79	-25	PASS
			RB1#0	RB1#74	QPSK	0.01	-84.99	-55	PASS
				RB1#74	QPSK	29.04	-78.35	-45	PASS
				RB1#74	QPSK	551.98	-54.00	-25	PASS
				RB1#74	QPSK	2527.73	-43.48	-25	PASS
		HCH	RB75#0	RB75#0	QPSK	0.01	-83.25	-55	PASS
				RB75#0	QPSK	25.98	-79.38	-45	PASS
				RB75#0	QPSK	553.22	-54.16	-25	PASS
				RB75#0	QPSK	2634.83	-40.85	-25	PASS
			RB1#0	RB1#74	QPSK	0.01	-84.73	-55	PASS
				RB1#74	QPSK	22.88	-78.90	-45	PASS
				RB1#74	QPSK	552.95	-54.13	-25	PASS
				RB1#74	QPSK	2645.67	-39.00	-25	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	0.01	-84.07	-55	PASS
				RB100#0	QPSK	24.27	-79.24	-45	PASS
				RB100#0	QPSK	845.18	-51.44	-25	PASS
				RB100#0	QPSK	2543.67	-33.68	-25	PASS
			RB1#0	RB1#99	QPSK	0.01	-84.32	-55	PASS
				RB1#99	QPSK	27.2	-78.45	-45	PASS
				RB1#99	QPSK	550.28	-54.10	-25	PASS
				RB1#99	QPSK	2538.57	-32.45	-25	PASS
		MCH	RB100#0	RB100#0	QPSK	0.01	-84.26	-55	PASS
				RB100#0	QPSK	28.98	-79.09	-45	PASS
				RB100#0	QPSK	550.5	-54.17	-25	PASS
				RB100#0	QPSK	2545.58	-34.90	-25	PASS
			RB1#0	RB1#99	QPSK	0.01	-84.40	-55	PASS
				RB1#99	QPSK	27.72	-78.74	-45	PASS
				RB1#99	QPSK	552.93	-54.18	-25	PASS
				RB1#99	QPSK	2544.31	-34.13	-25	PASS
		HCH	RB100#0	RB100#0	QPSK	0.01	-84.12	-55	PASS
				RB100#0	QPSK	0.65	-79.24	-45	PASS
				RB100#0	QPSK	551.91	-54.05	-25	PASS
				RB100#0	QPSK	2550.04	-35.13	-25	PASS
			RB1#0	RB1#99	QPSK	0.01	-84.65	-55	PASS
				RB1#99	QPSK	26.59	-79.11	-45	PASS
				RB1#99	QPSK	551.88	-54.06	-25	PASS
				RB1#99	QPSK	2548.13	-32.65	-25	PASS

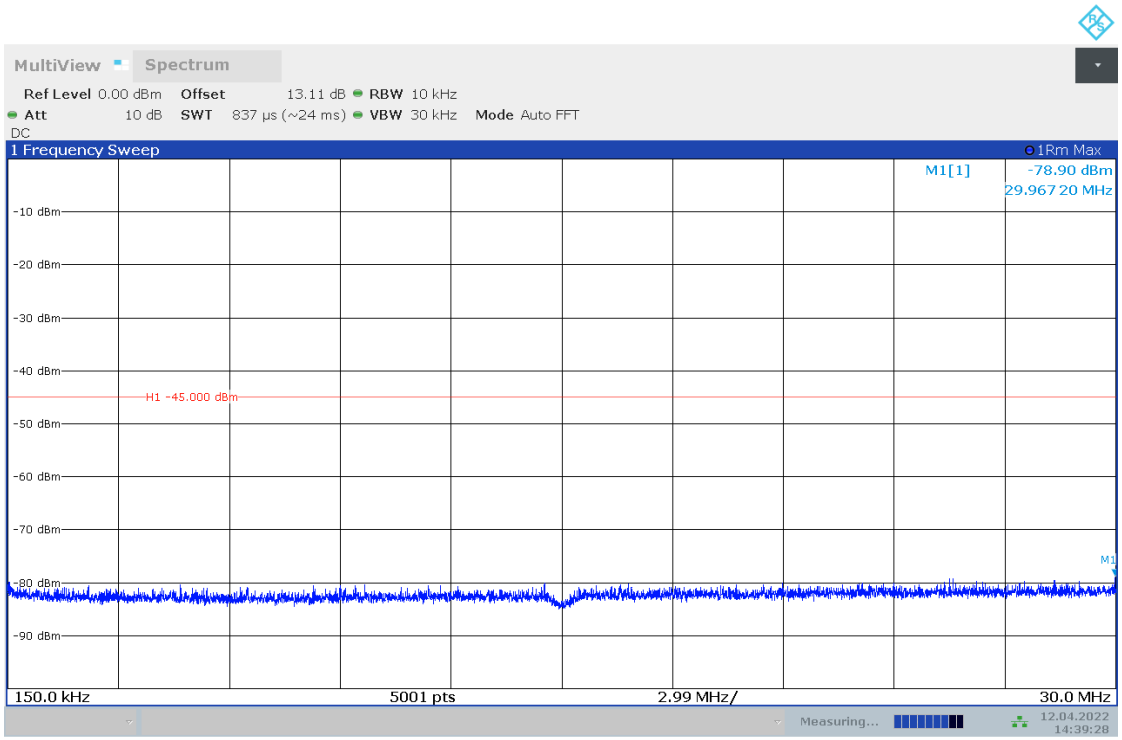
Spurious Emission at Antenna Terminal									
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
TM2	15+15	LCH	RB75#0	RB75#0	16QAM	0.01	-84.23	-55	PASS
				RB75#0	16QAM	27.69	-78.51	-45	PASS
				RB75#0	16QAM	550.99	-54.10	-25	PASS
				RB75#0	16QAM	2555.14	-31.40	-25	PASS
			RB1#0	RB1#74	16QAM	0.01	-84.17	-55	PASS
				RB1#74	16QAM	29.69	-78.56	-45	PASS
				RB1#74	16QAM	547.28	-54.07	-25	PASS
				RB1#74	16QAM	2548.13	-31.61	-25	PASS
		MCH	RB75#0	RB75#0	16QAM	0.01	-83.55	-55	PASS
				RB75#0	16QAM	24.89	-78.85	-45	PASS
				RB75#0	16QAM	552.05	-53.98	-25	PASS
				RB75#0	16QAM	2543.03	-44.22	-25	PASS
			RB1#0	RB1#74	16QAM	0.01	-84.24	-55	PASS
				RB1#74	16QAM	20.64	-79.18	-45	PASS
				RB1#74	16QAM	543.71	-54.10	-25	PASS
				RB1#74	16QAM	2555.14	-32.57	-25	PASS
		HCH	RB75#0	RB75#0	16QAM	0.01	-84.89	-55	PASS
				RB75#0	16QAM	28.7	-79.11	-45	PASS
				RB75#0	16QAM	553	-53.82	-25	PASS
				RB75#0	16QAM	2635.47	-39.91	-25	PASS
			RB1#0	RB1#74	16QAM	0.01	-83.93	-55	PASS
				RB1#74	16QAM	25.94	-78.53	-45	PASS
				RB1#74	16QAM	549.24	-53.65	-25	PASS
				RB1#74	16QAM	2645.67	-38.03	-25	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	0.01	-83.33	-55	PASS
				RB100#0	16QAM	21	-79.29	-45	PASS
				RB100#0	16QAM	550.89	-54.08	-25	PASS
				RB100#0	16QAM	2639.93	-44.75	-25	PASS
			RB1#0	RB1#99	16QAM	0.01	-83.55	-55	PASS
				RB1#99	16QAM	23.57	-79.90	-45	PASS
				RB1#99	16QAM	551.25	-54.11	-25	PASS
				RB1#99	16QAM	2537.93	-32.36	-25	PASS
		MCH	RB100#0	RB100#0	16QAM	0.01	-83.34	-55	PASS
				RB100#0	16QAM	26.1	-79.24	-45	PASS
				RB100#0	16QAM	548.05	-53.81	-25	PASS
				RB100#0	16QAM	2547.49	-34.17	-25	PASS
			RB1#0	RB1#99	16QAM	0.01	-84.28	-55	PASS
				RB1#99	16QAM	29.66	-79.34	-45	PASS
				RB1#99	16QAM	553.41	-54.10	-25	PASS
				RB1#99	16QAM	2541.12	-32.99	-25	PASS
		HCH	RB100#0	RB100#0	16QAM	0.01	-84.16	-55	PASS
				RB100#0	16QAM	23.86	-79.40	-45	PASS
				RB100#0	16QAM	548.22	-54.22	-25	PASS
				RB100#0	16QAM	2641.2	-40.88	-25	PASS
			RB1#0	RB1#99	16QAM	0.01	-83.68	-55	PASS
				RB1#99	16QAM	27.17	-79.29	-45	PASS
				RB1#99	16QAM	549.07	-54.06	-25	PASS
				RB1#99	16QAM	2549.41	-32.64	-25	PASS

4.2 TEST PLOTS

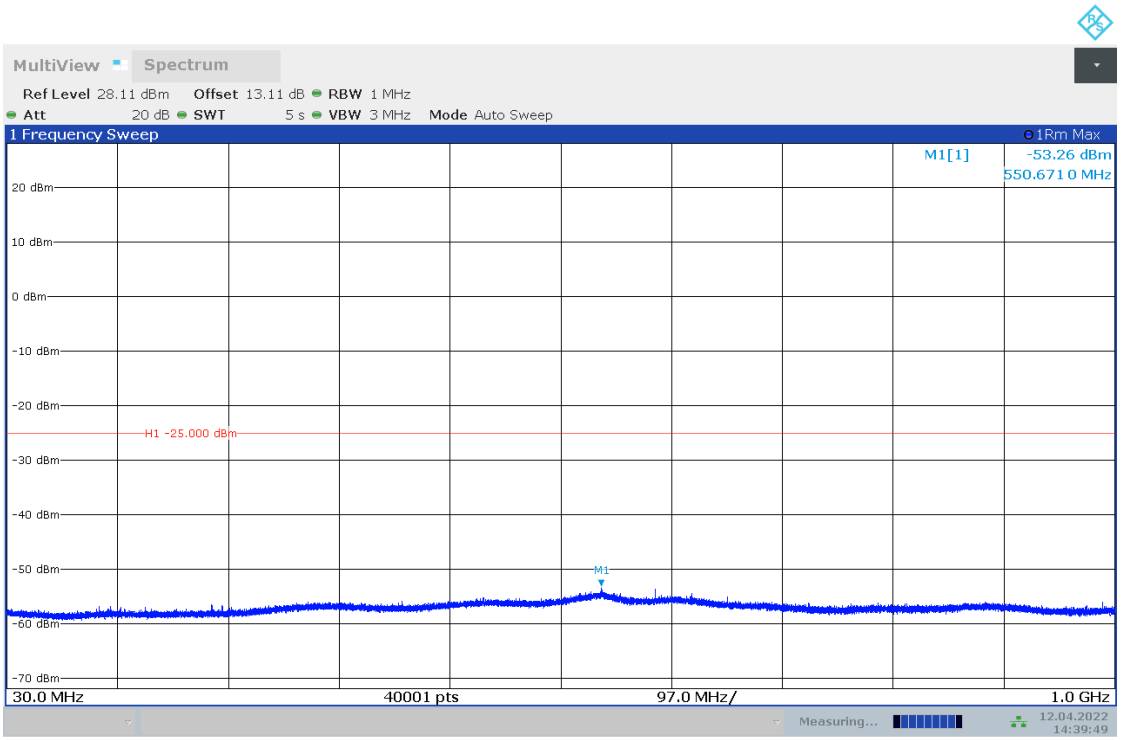
4.2.1 TM1_LCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



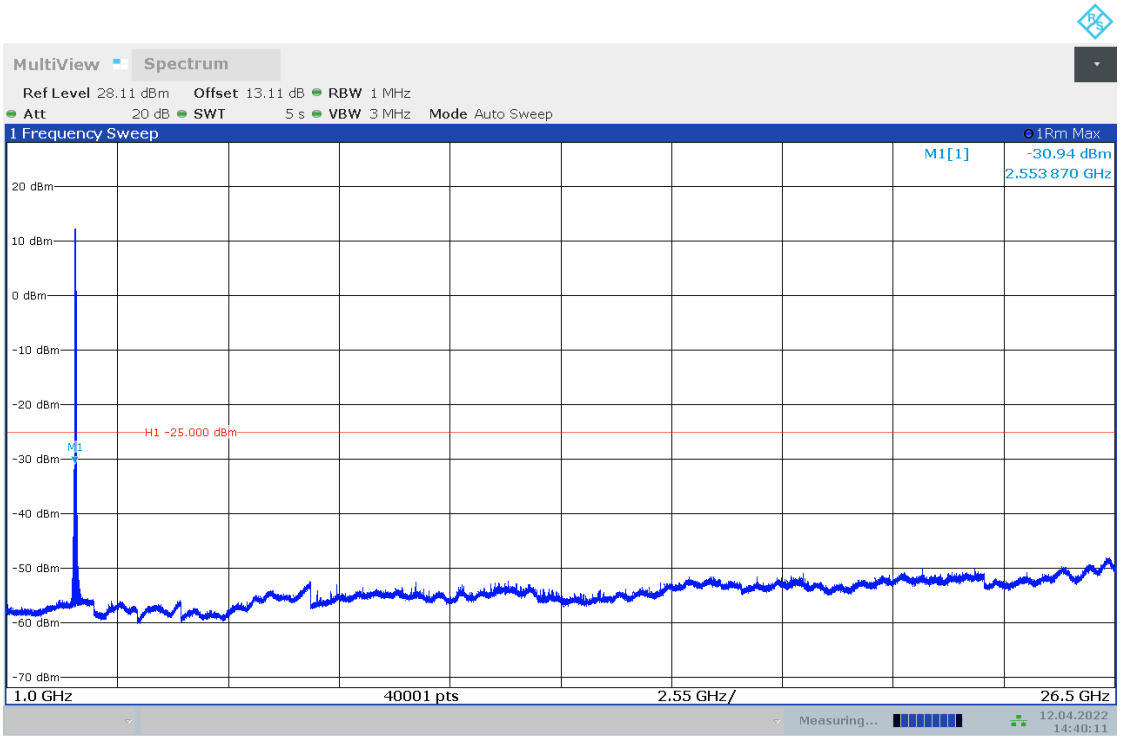
14:39:08 12.04.2022



14:39:29 12.04.2022

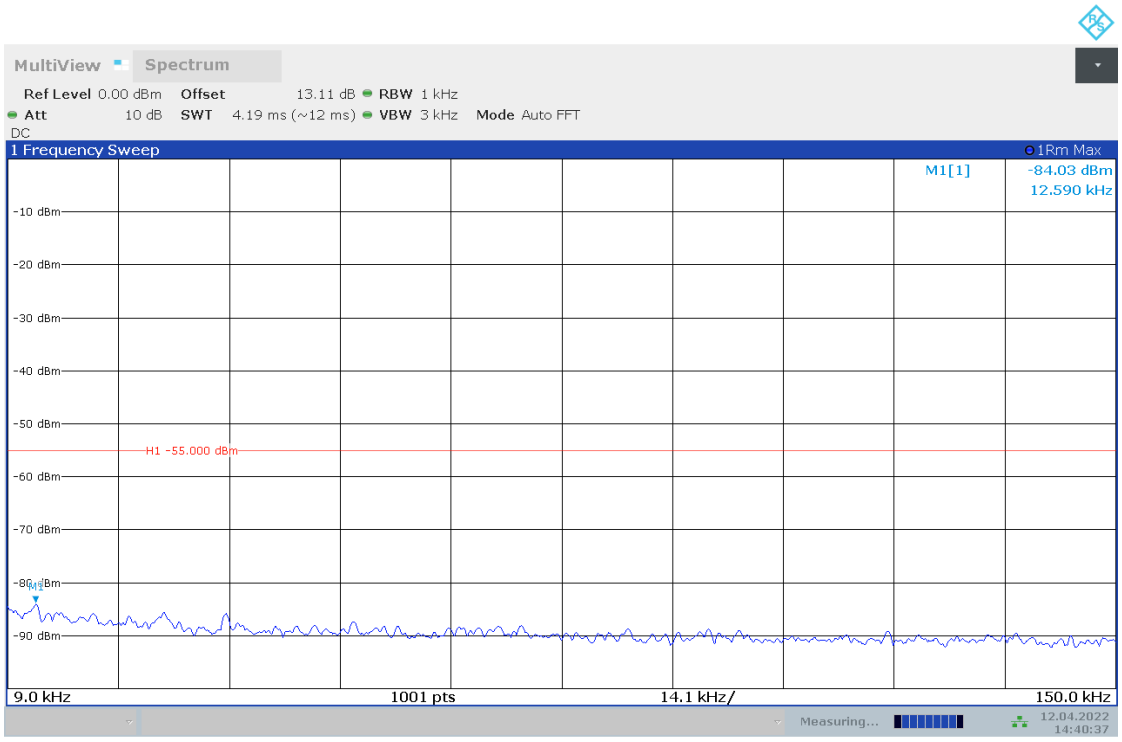


14:39:50 12.04.2022

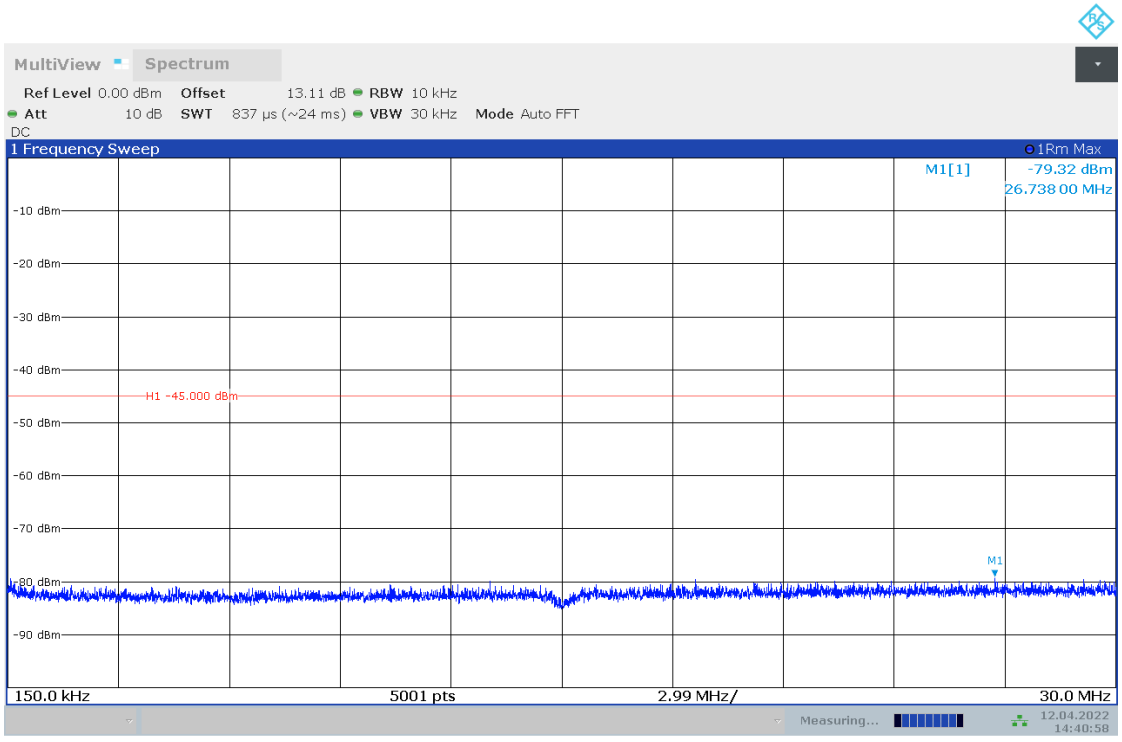


14:40:12 12.04.2022

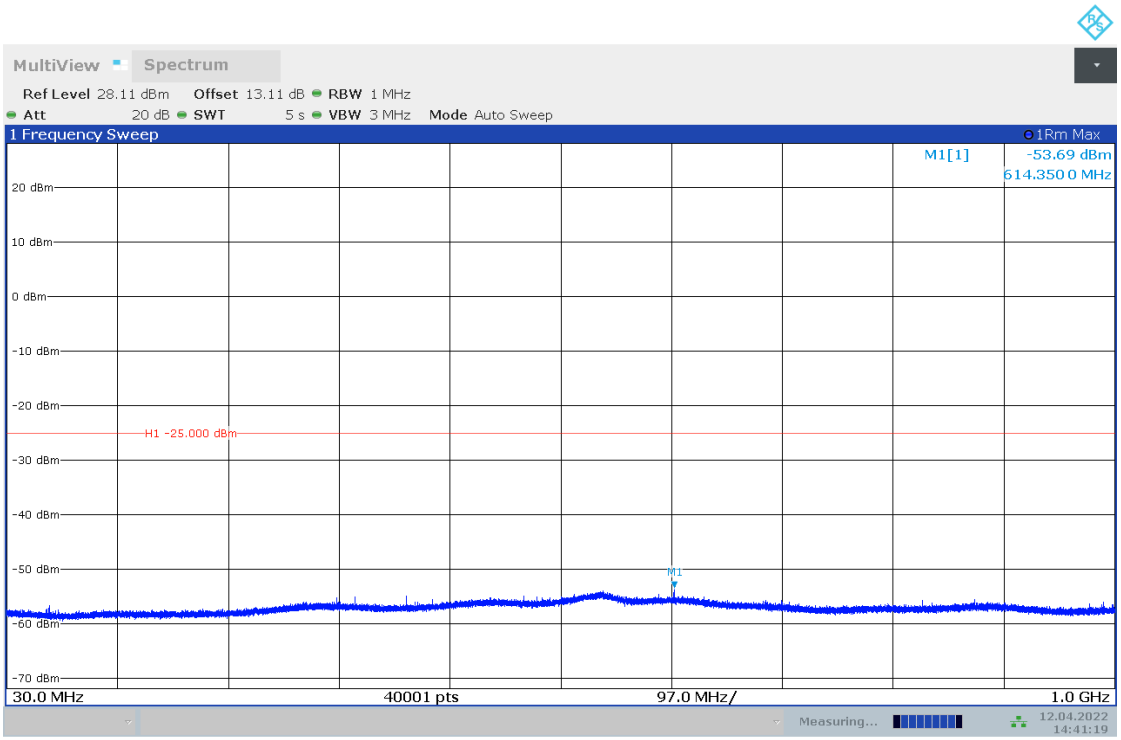
4.2.2 TM1_LCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



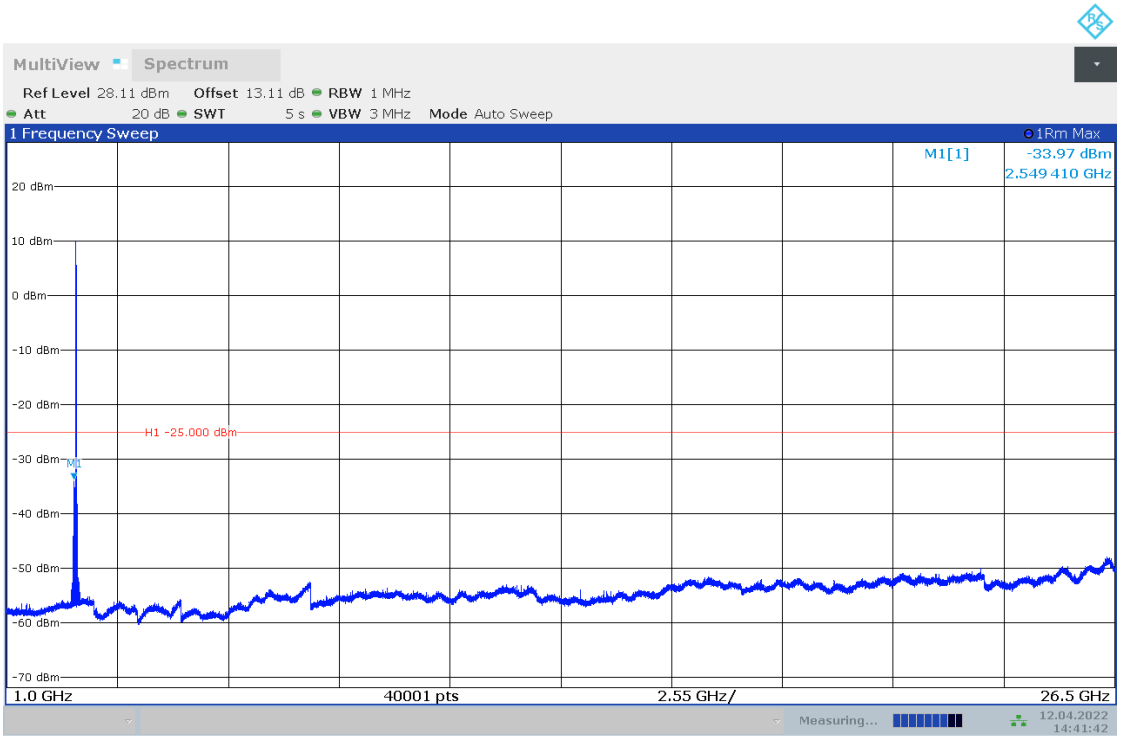
14:40:38 12.04.2022



14:40:59 12.04.2022

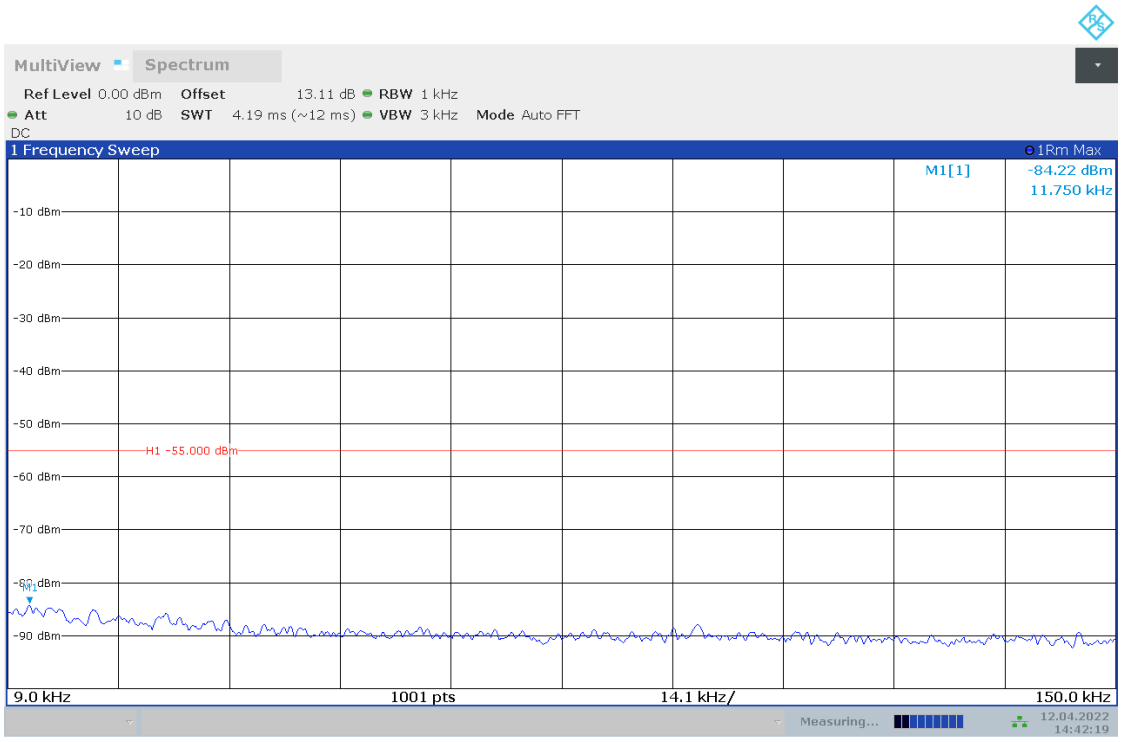


14:41:20 12.04.2022

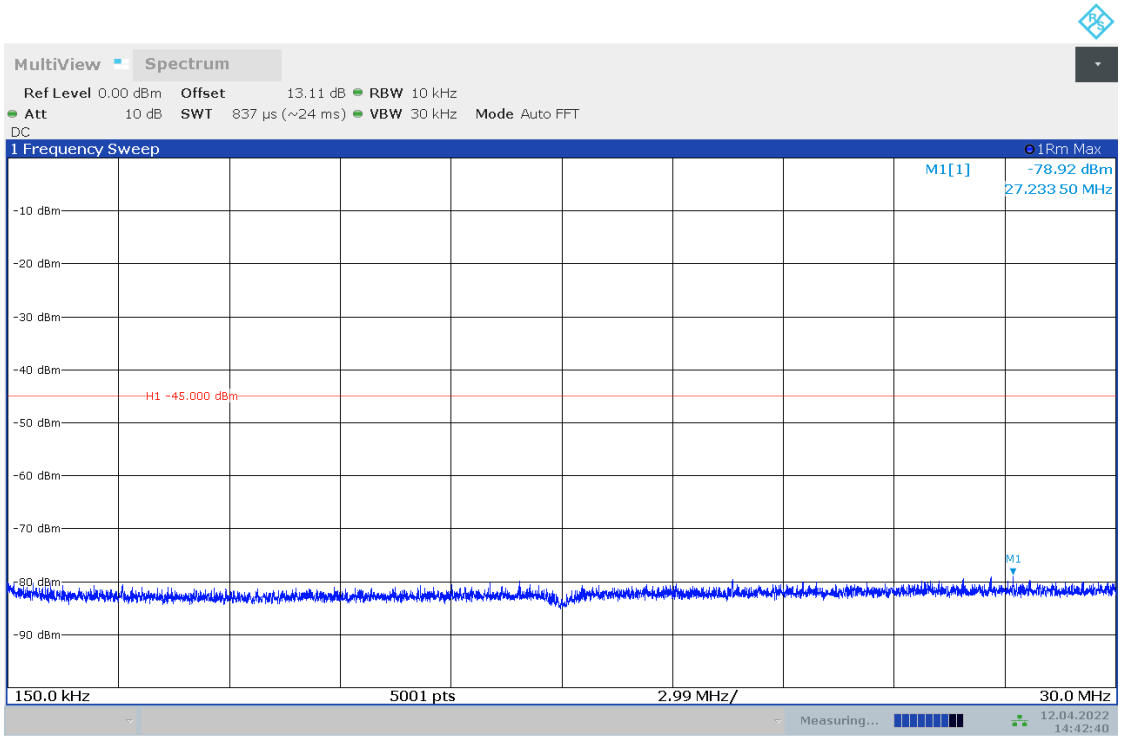


14:41:42 12.04.2022

4.2.3 TM1_MCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



14:42:19 12.04.2022



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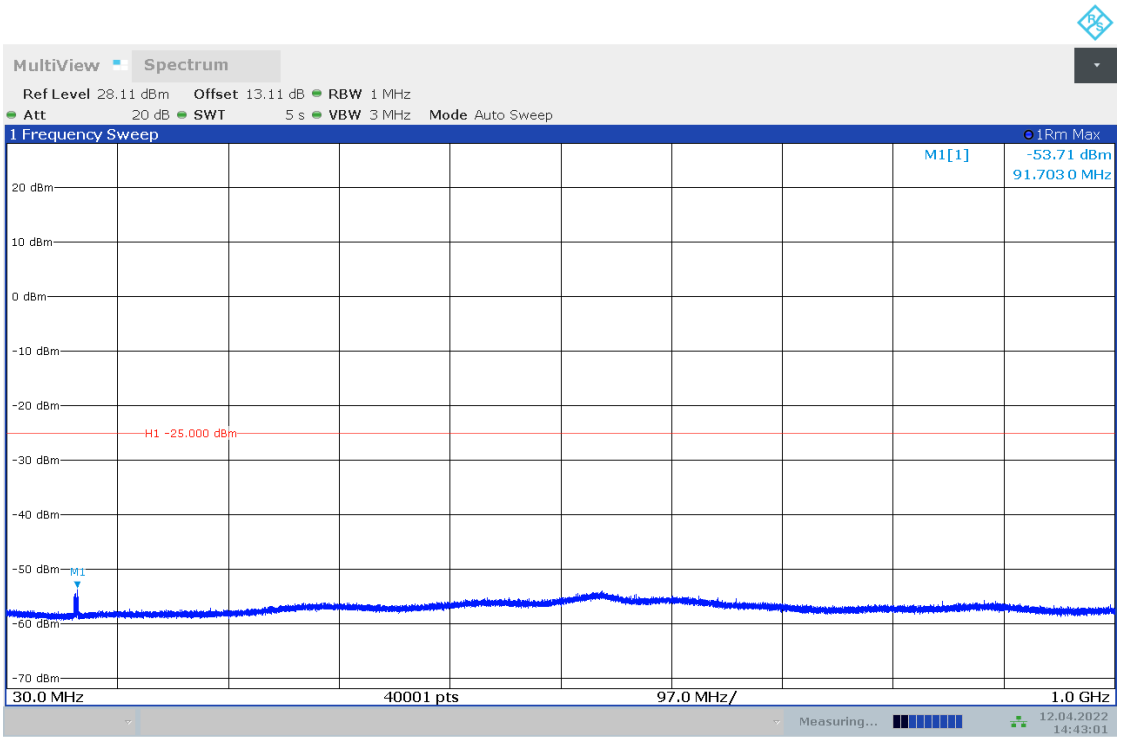

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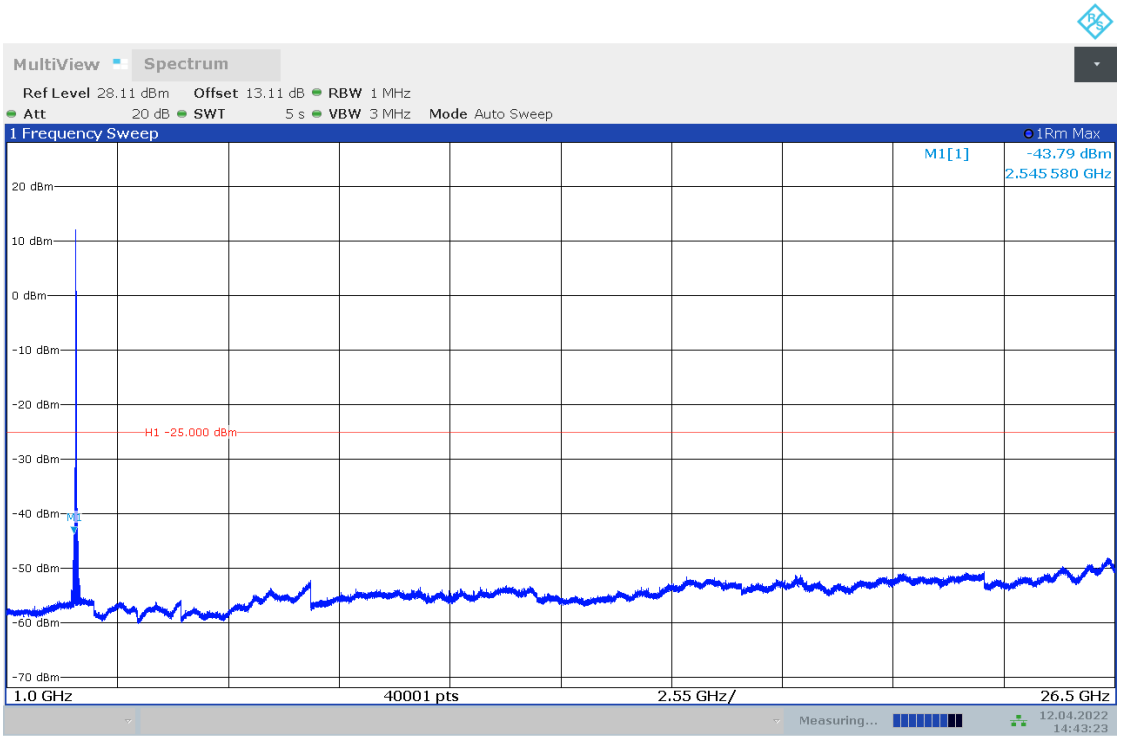

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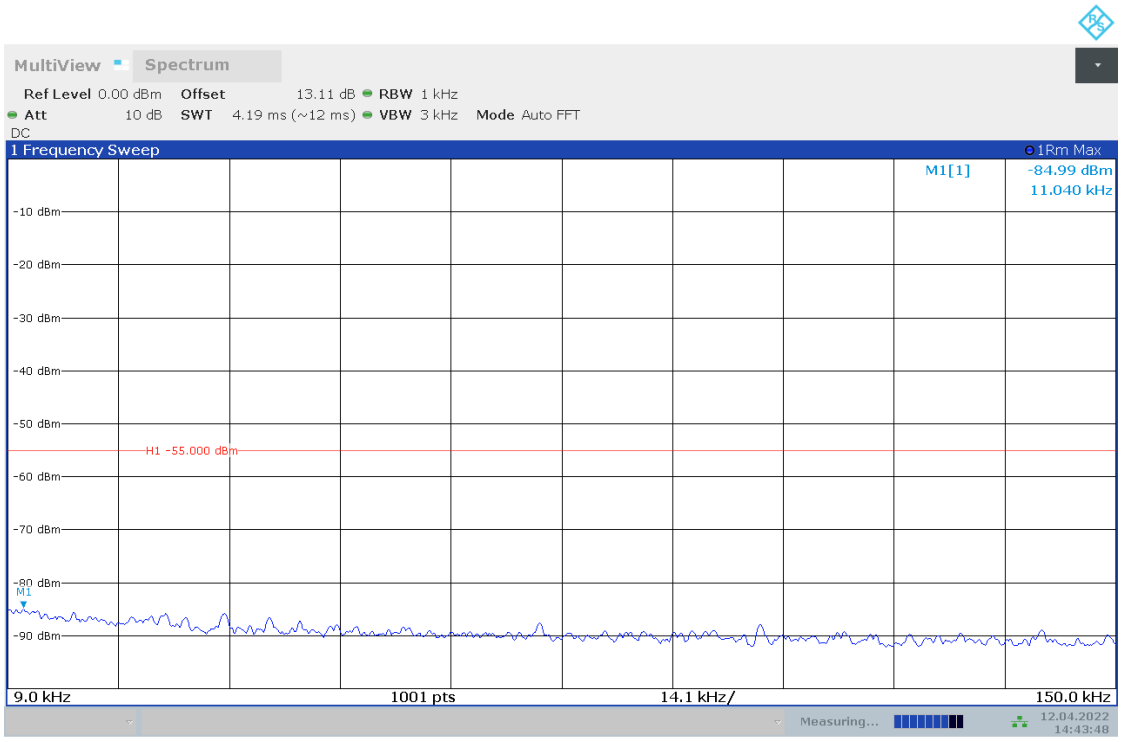
4.2.4 TM1_MCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



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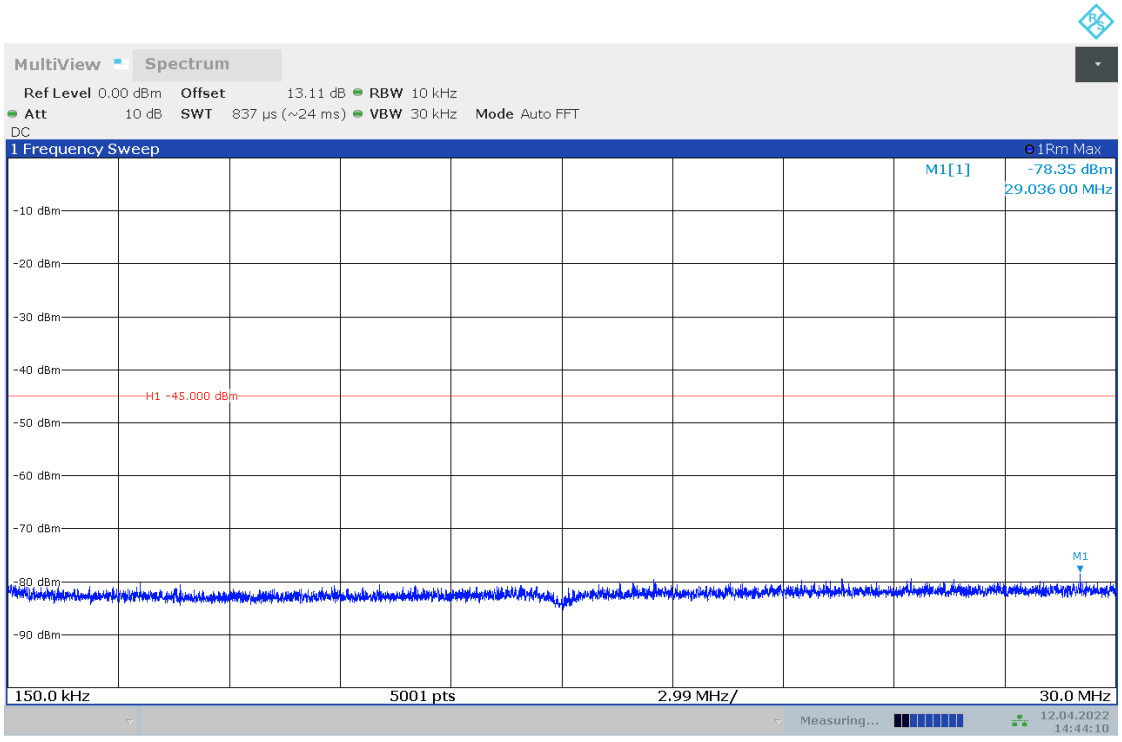

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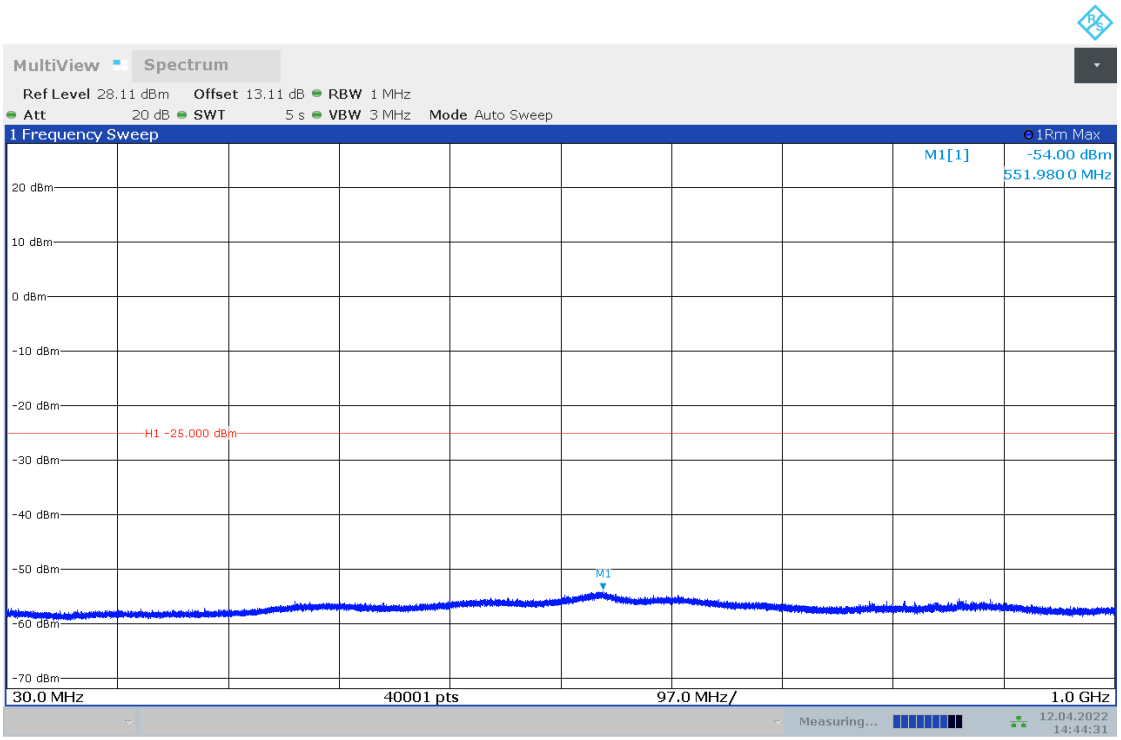

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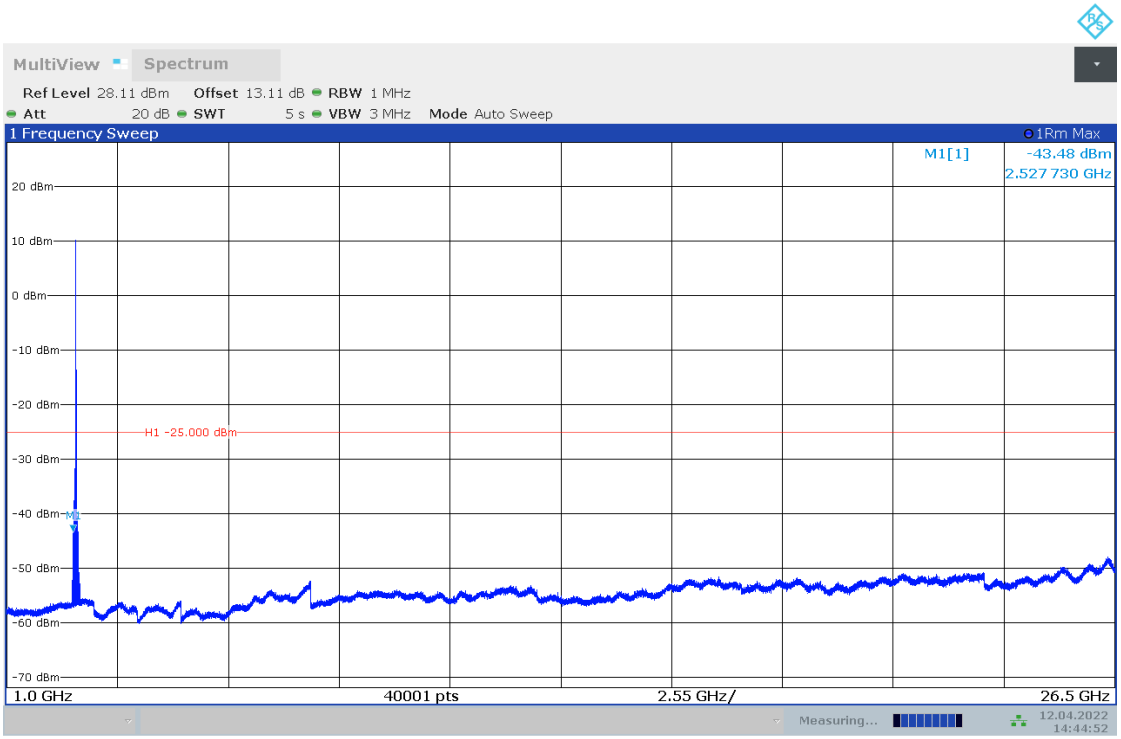

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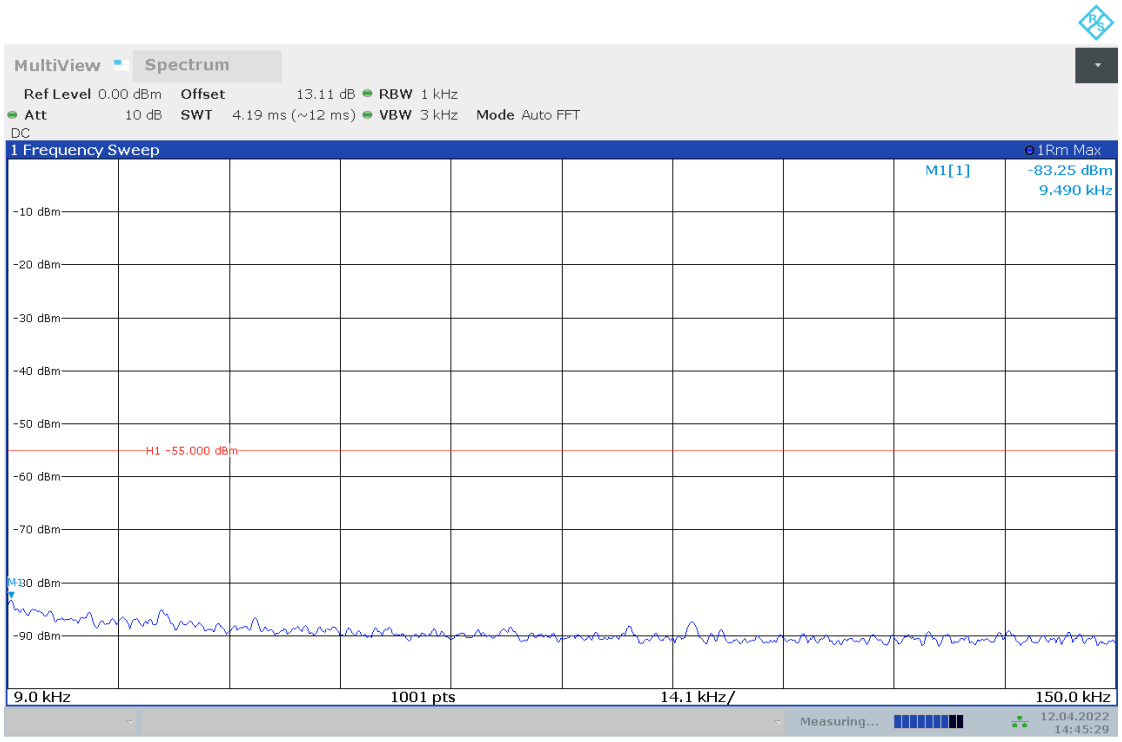
4.2.5 TM1_HCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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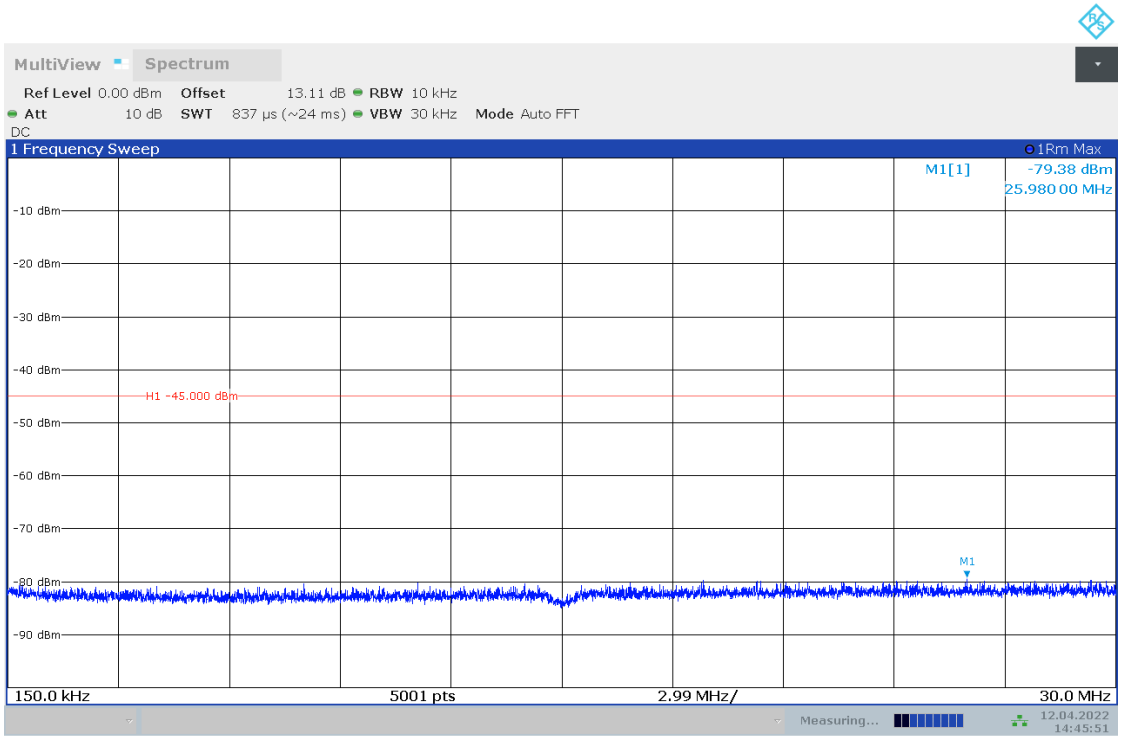

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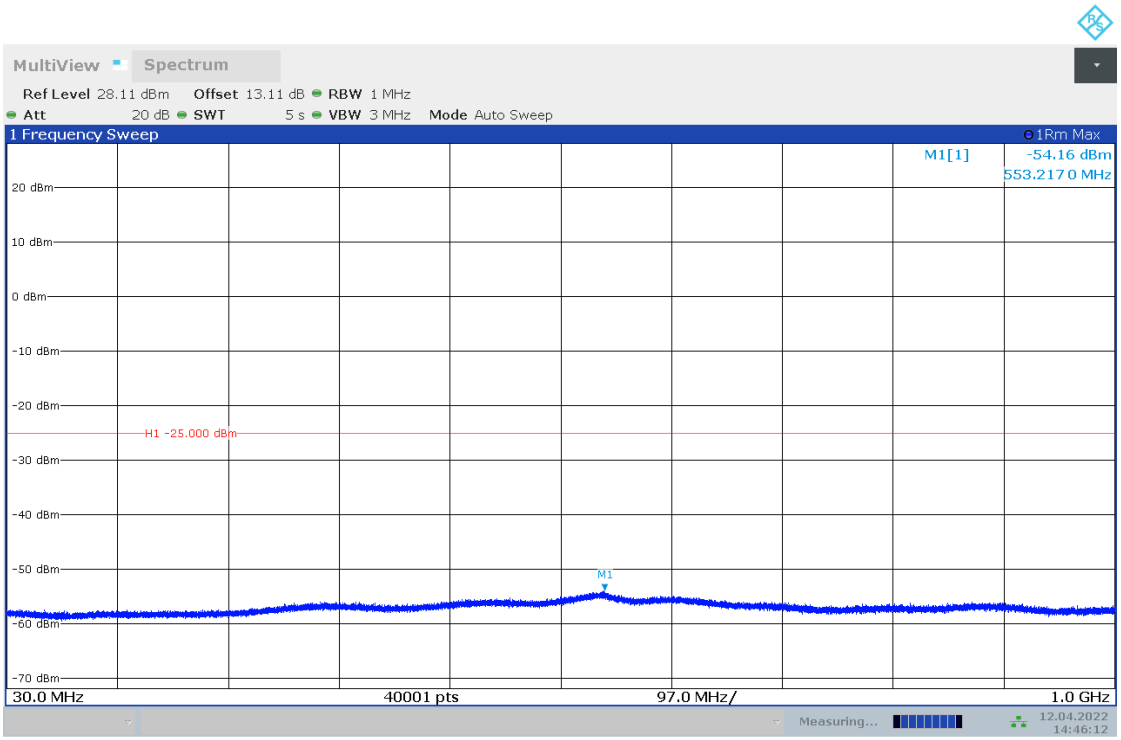

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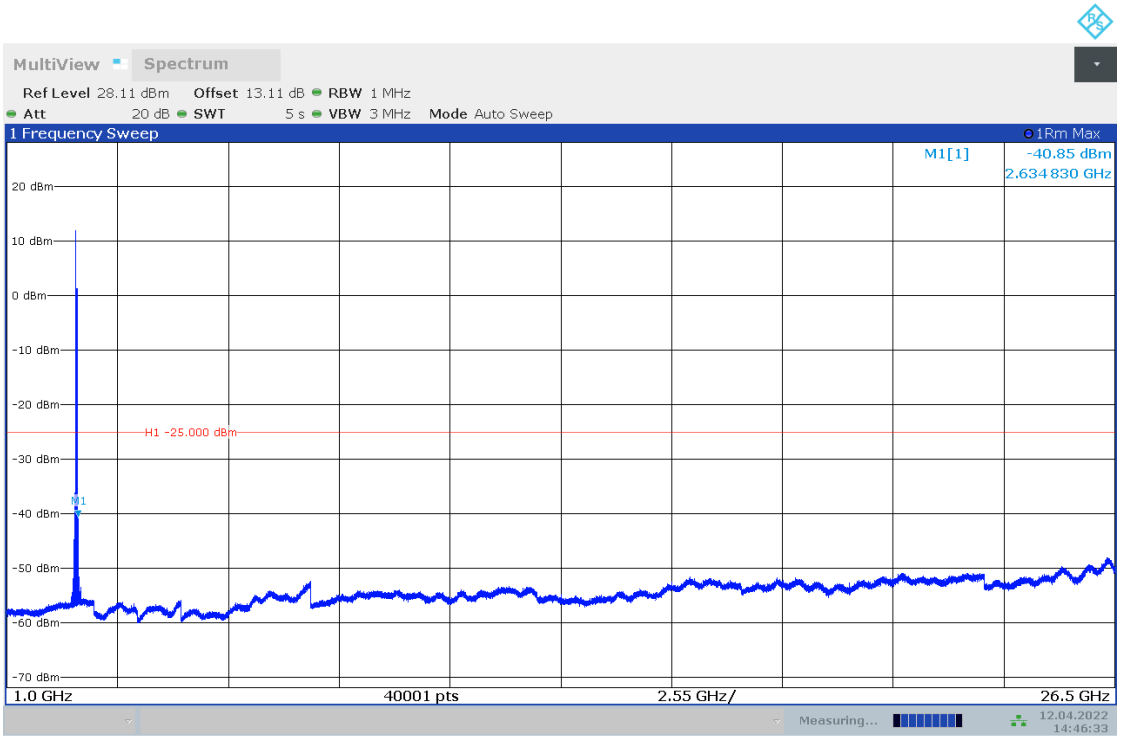
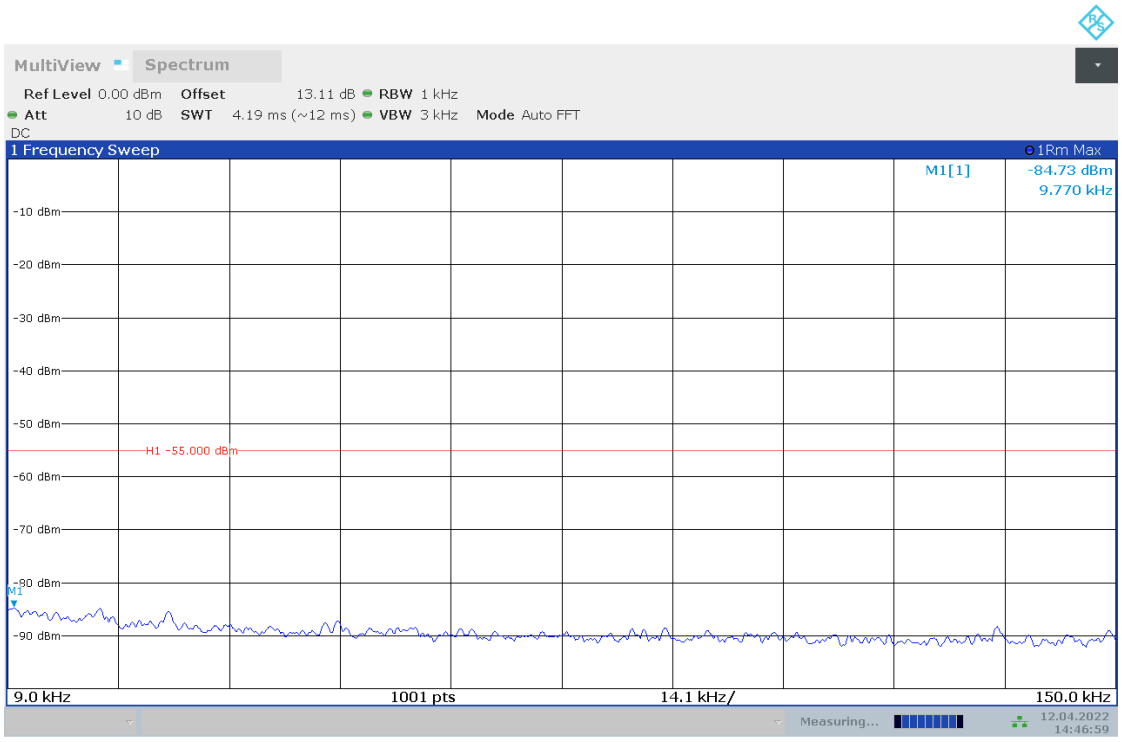


14:46:34 12.04.2022

4.2.6 TM1_HCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



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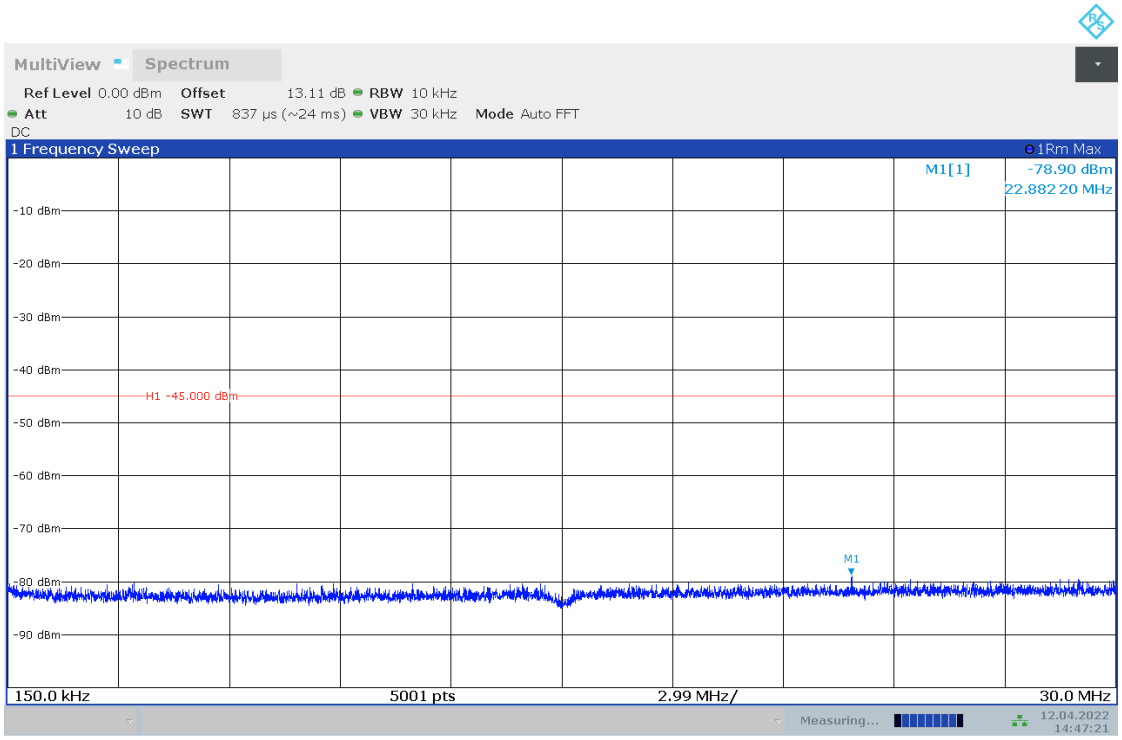

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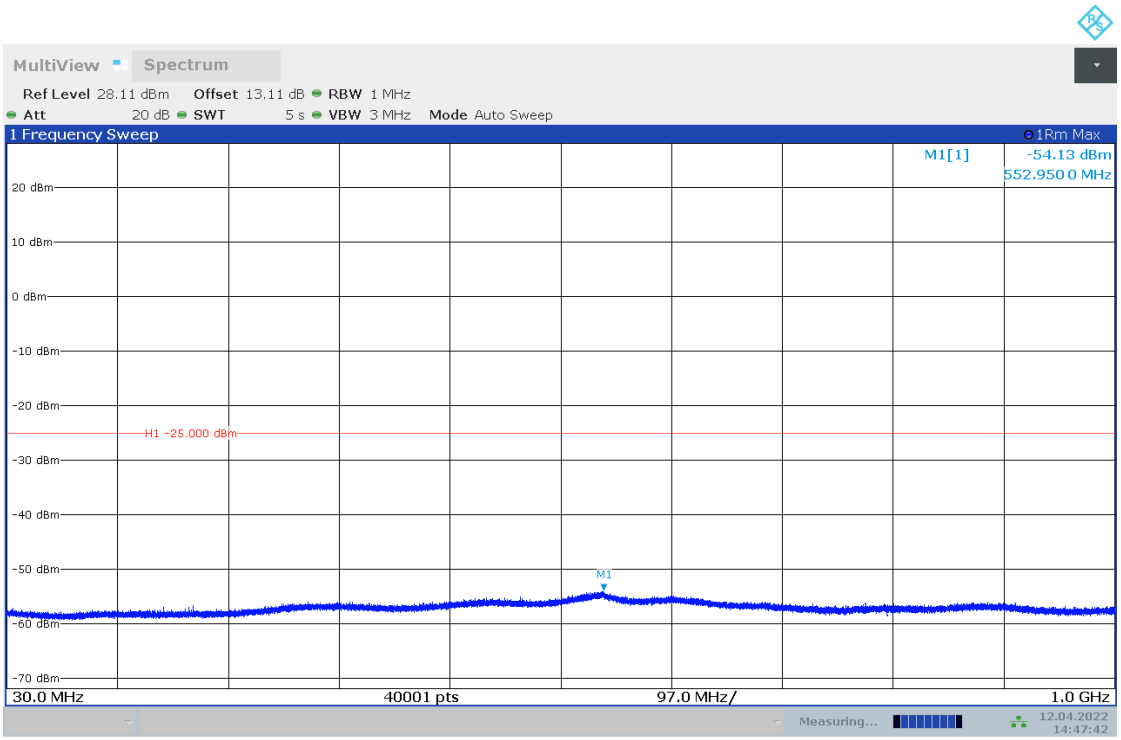

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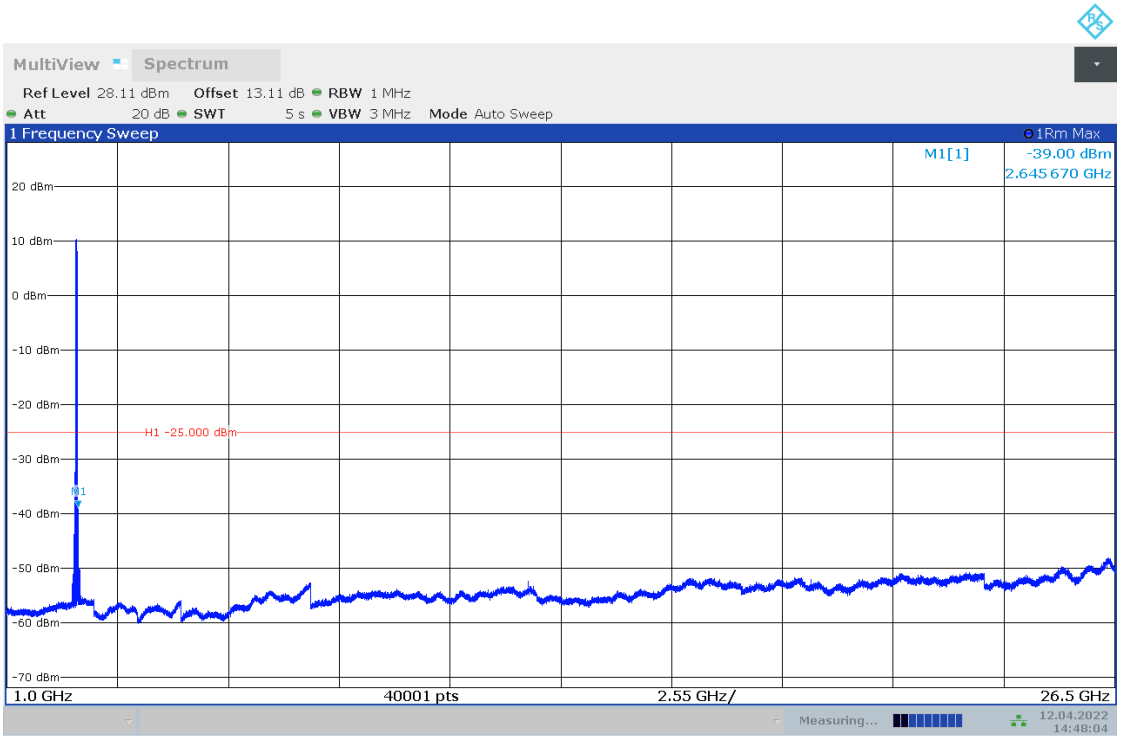

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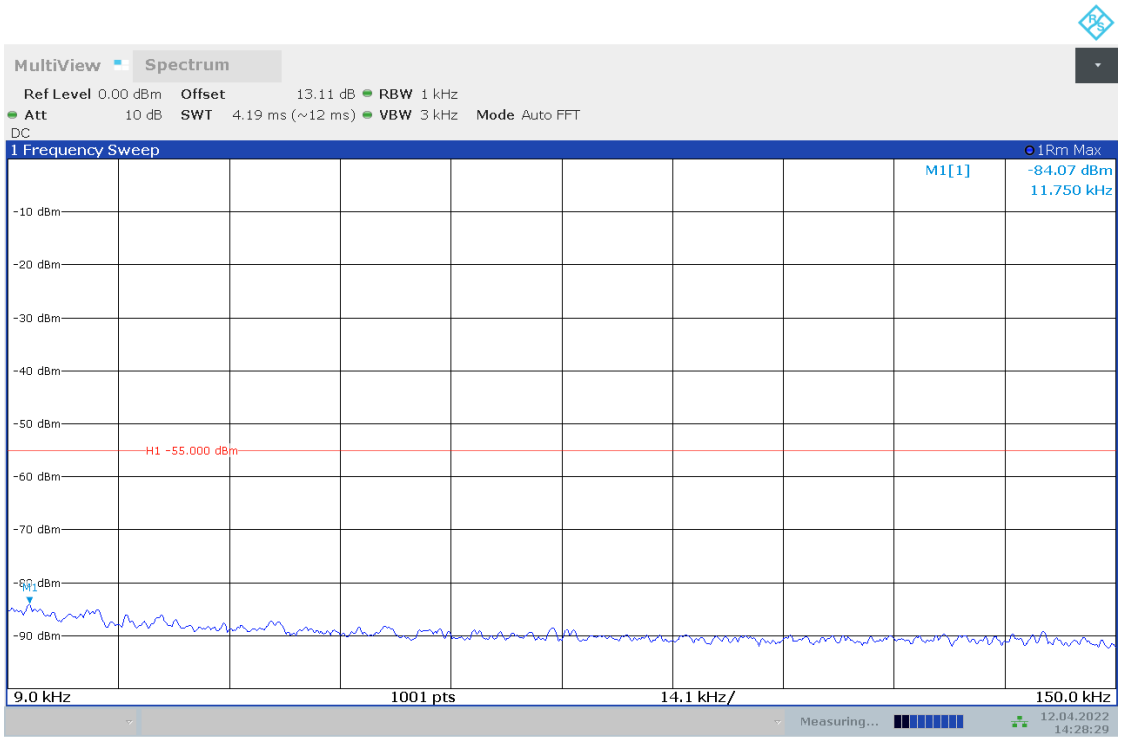
4.2.7 TM1_LCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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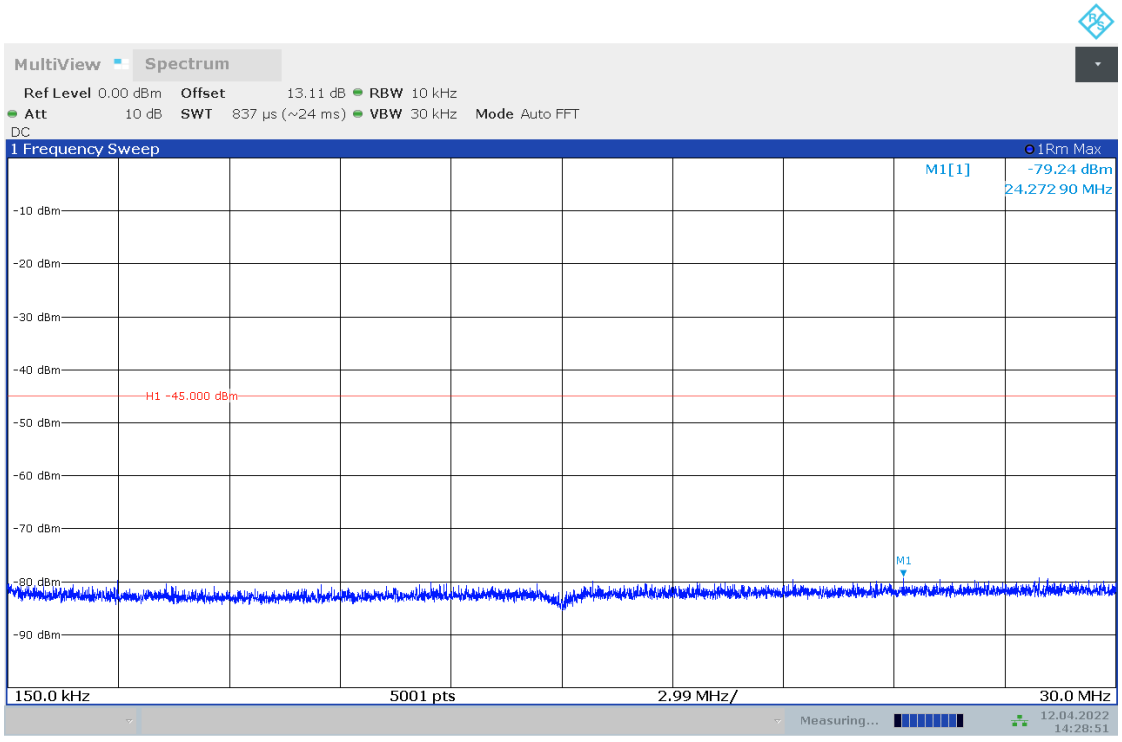

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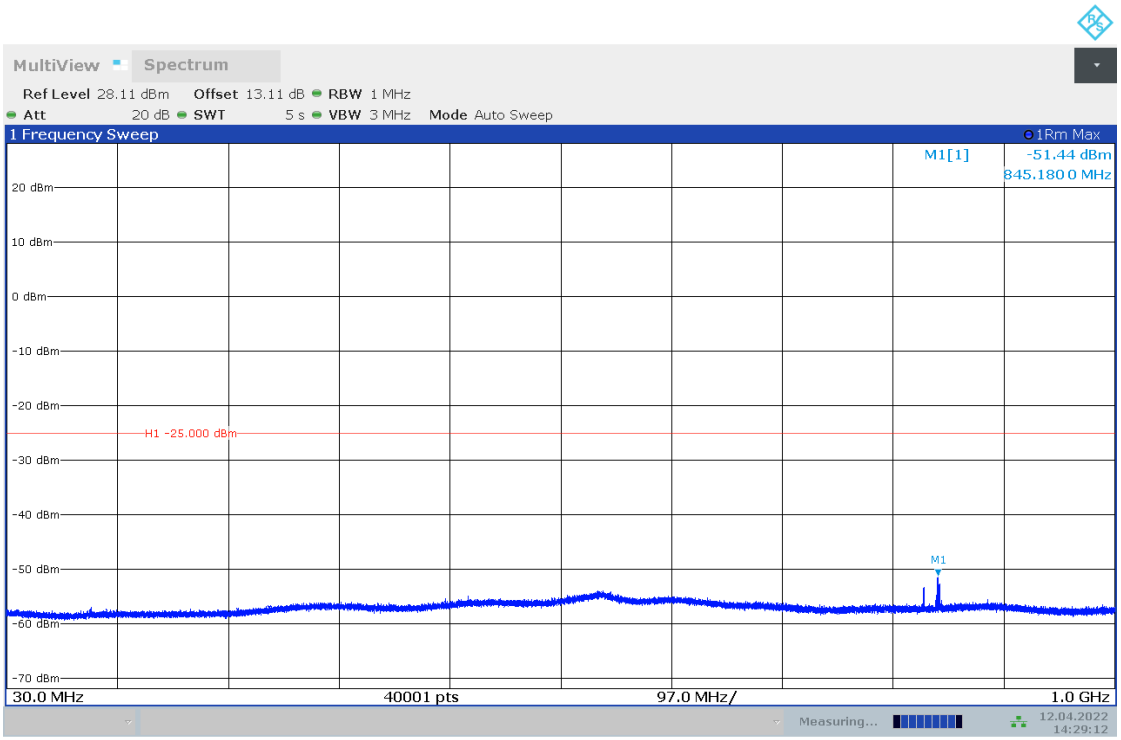

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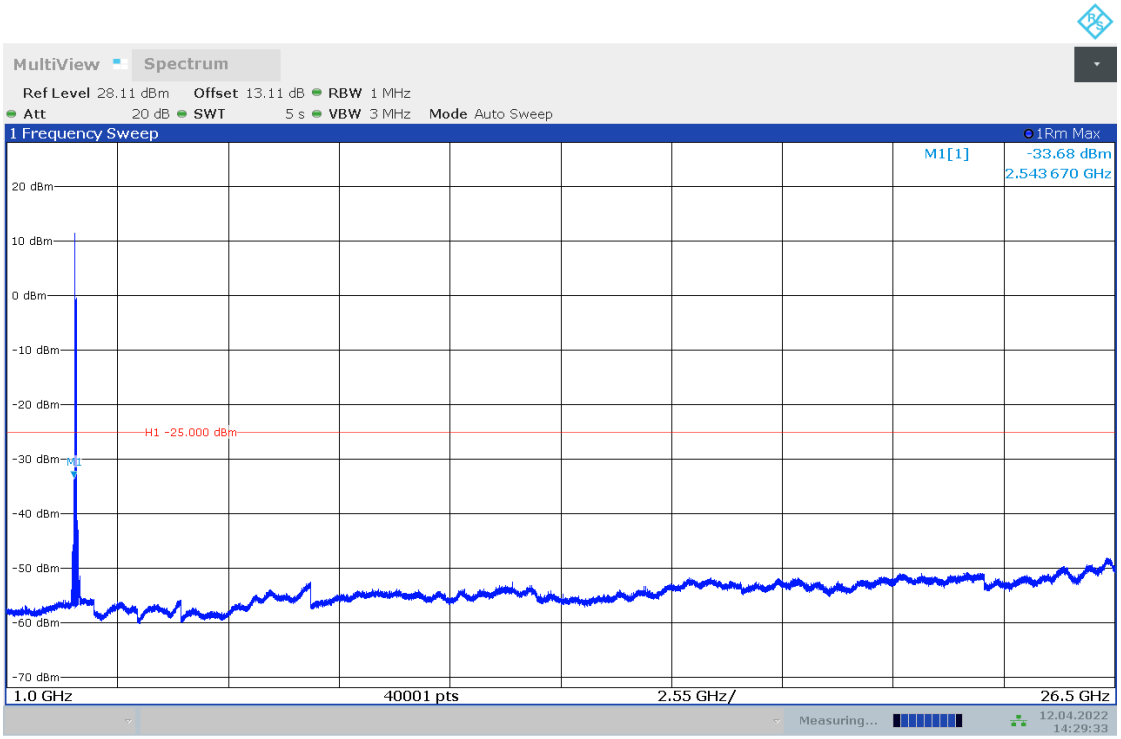

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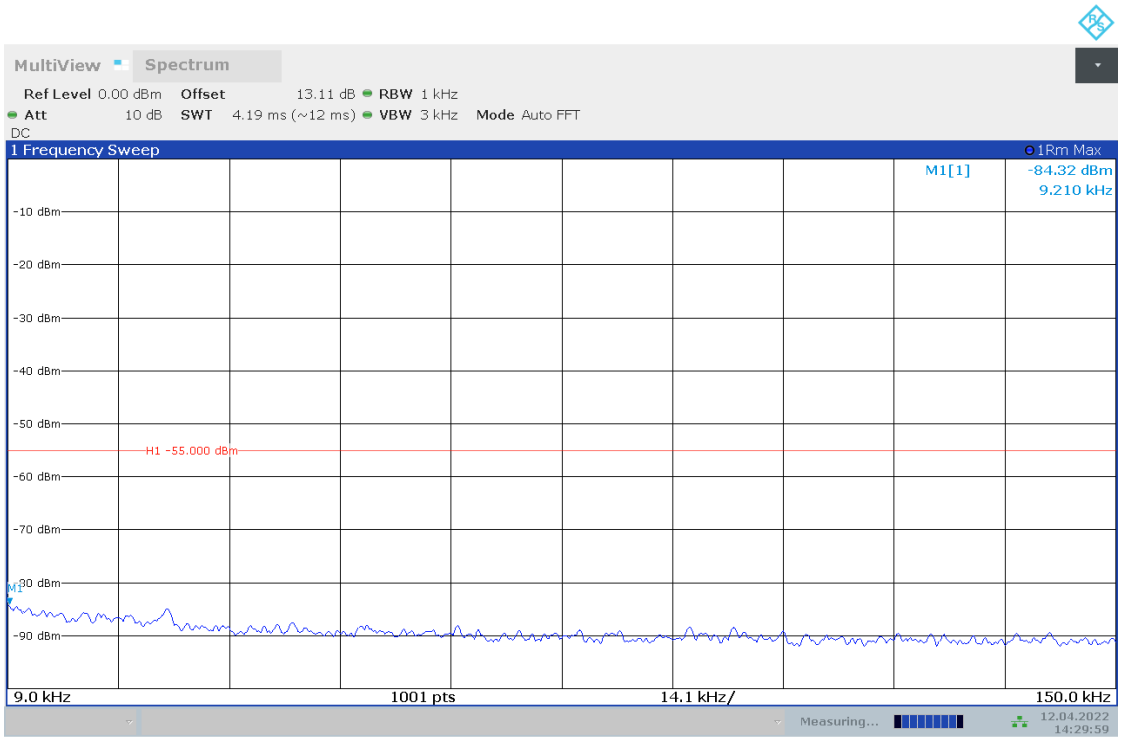
4.2.8 TM1_LCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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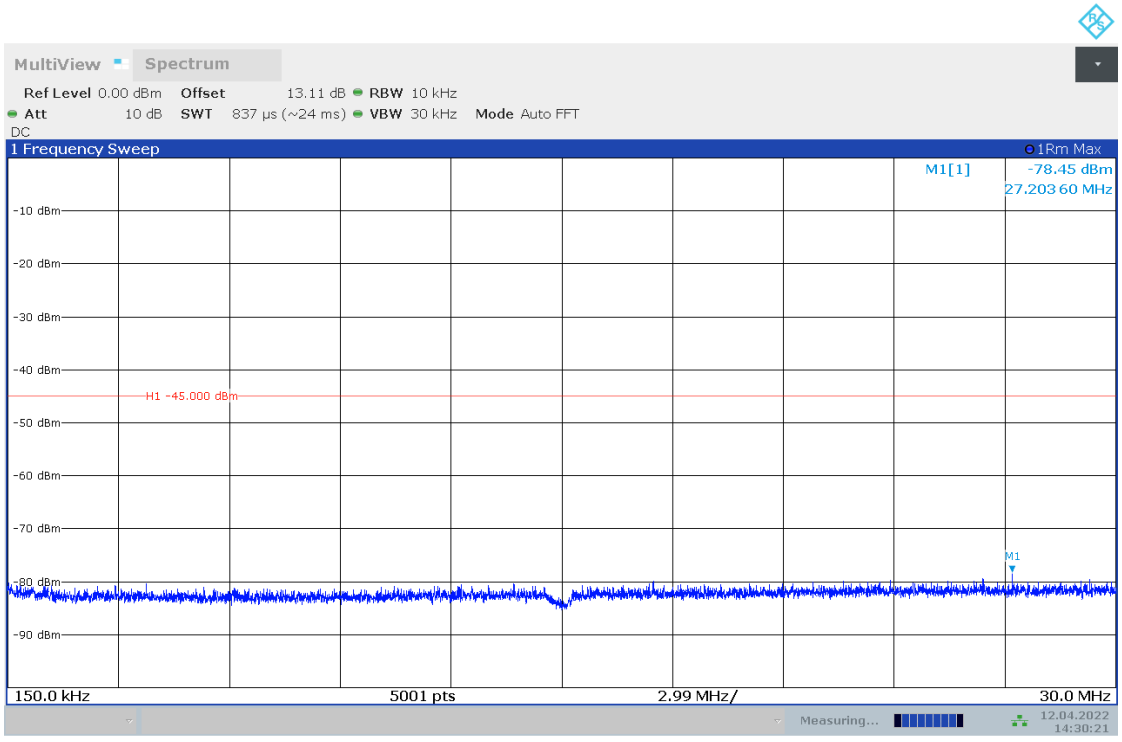

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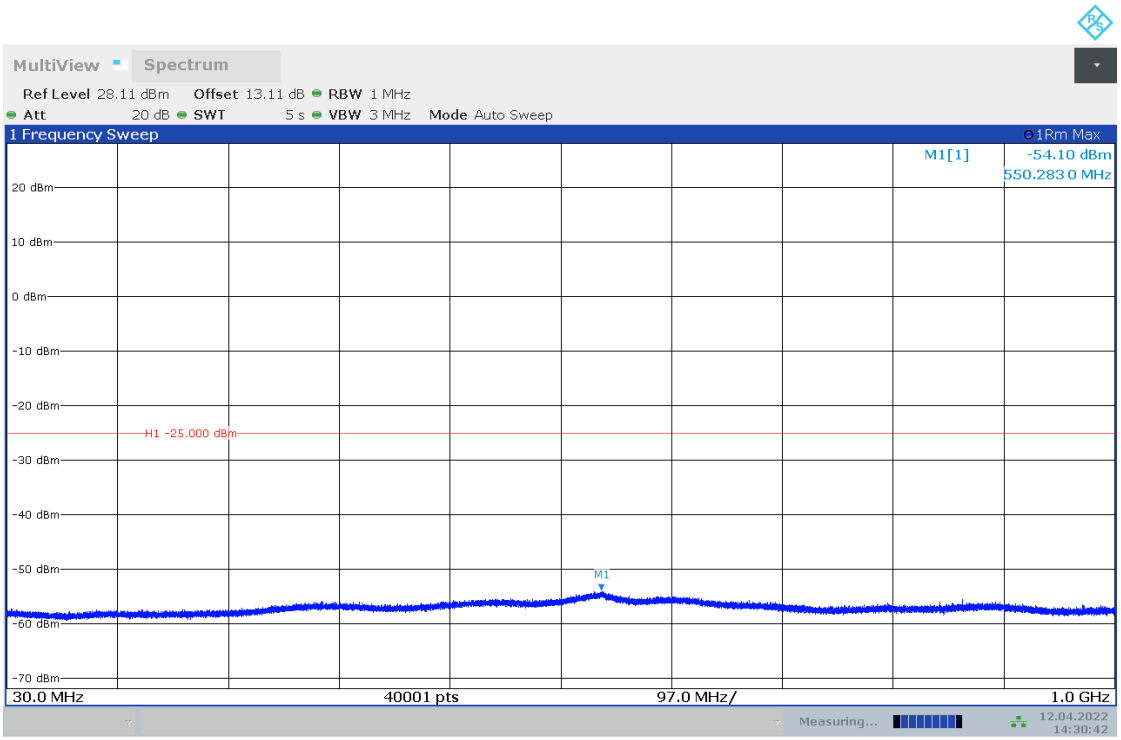

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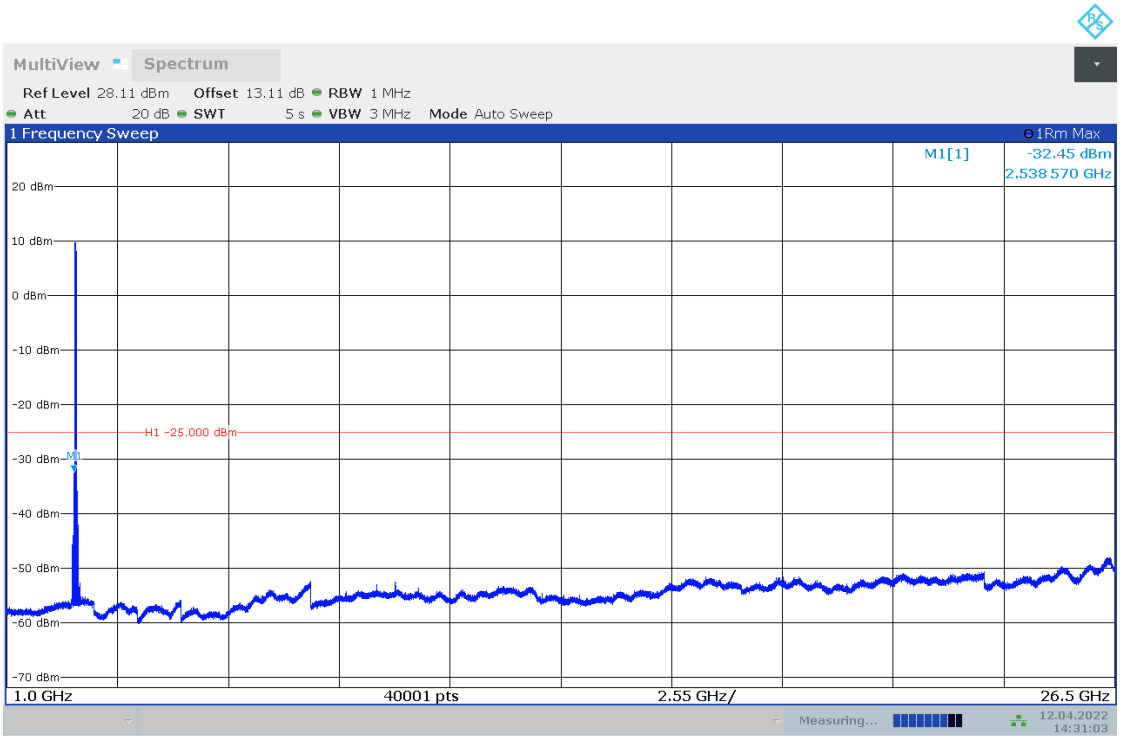

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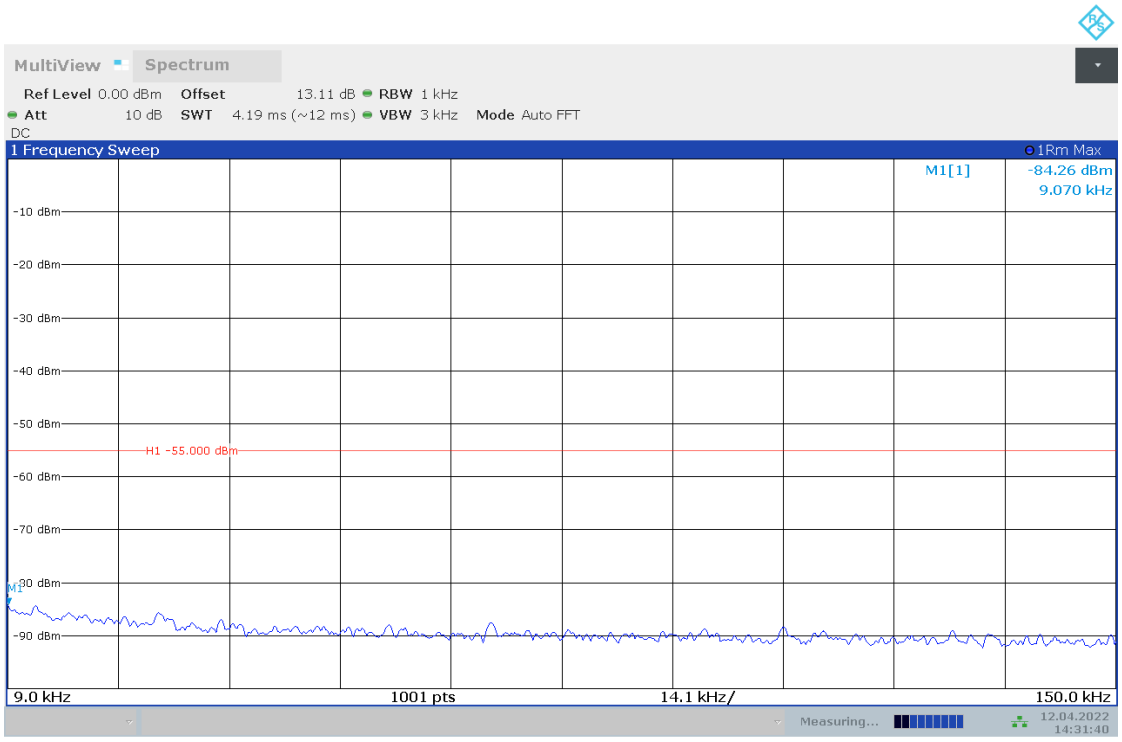
4.2.9 TM1_MCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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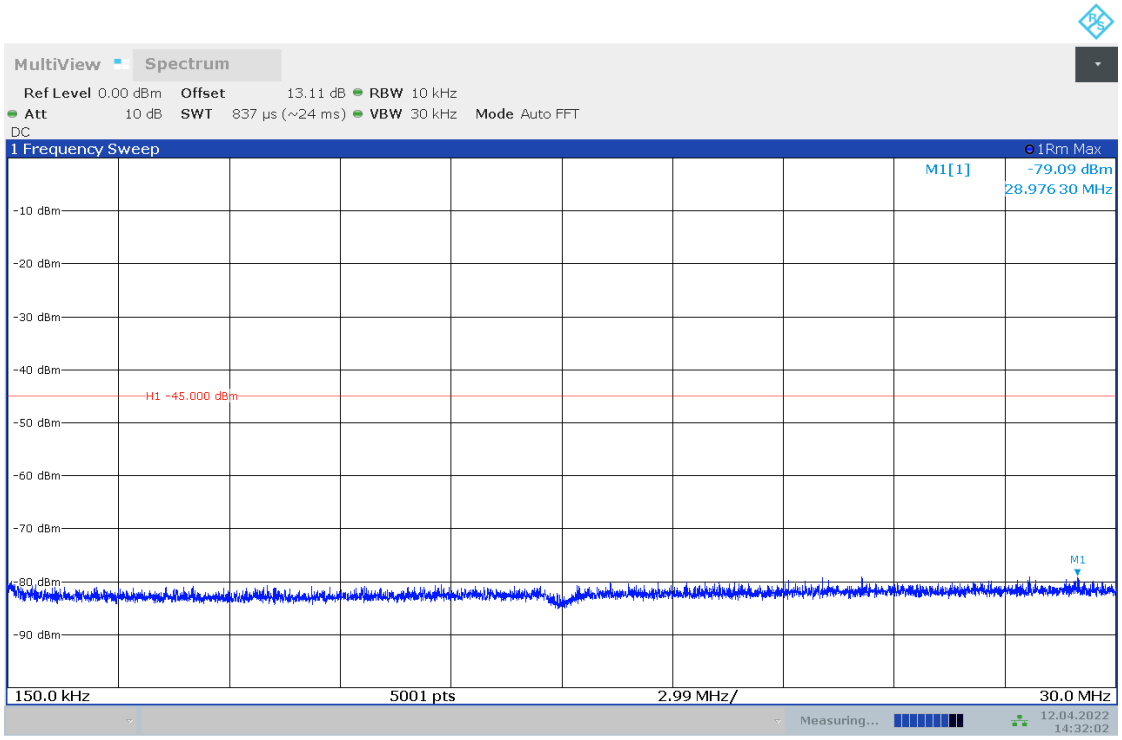

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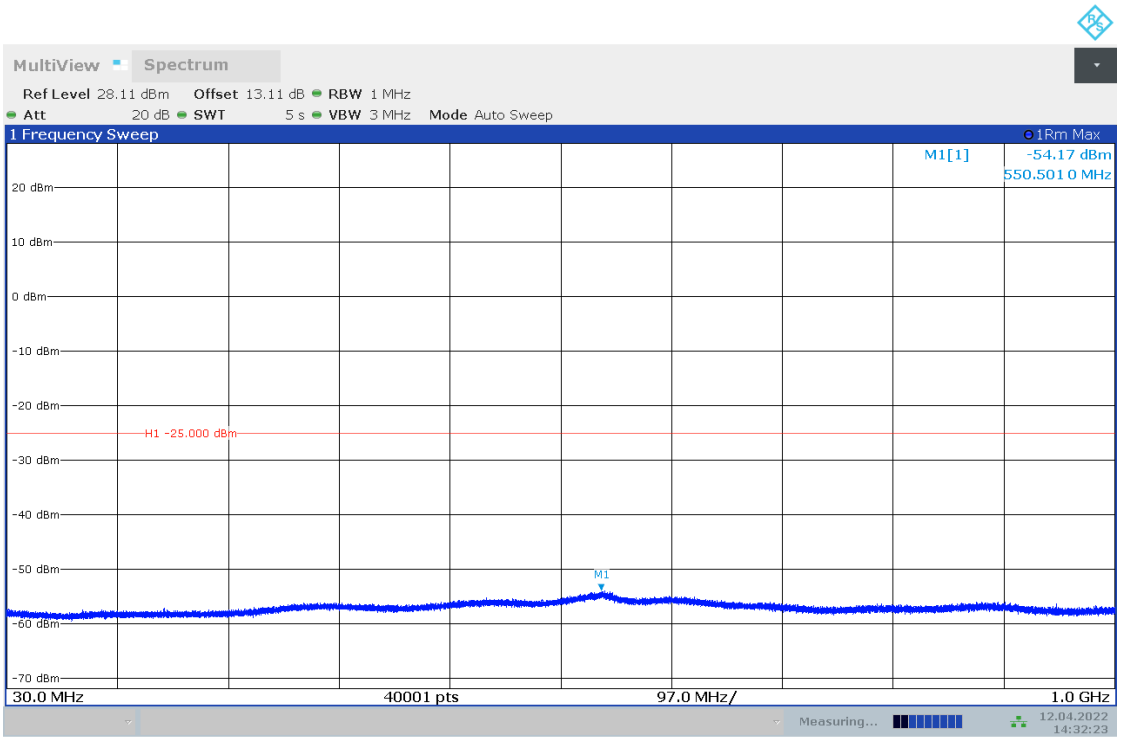

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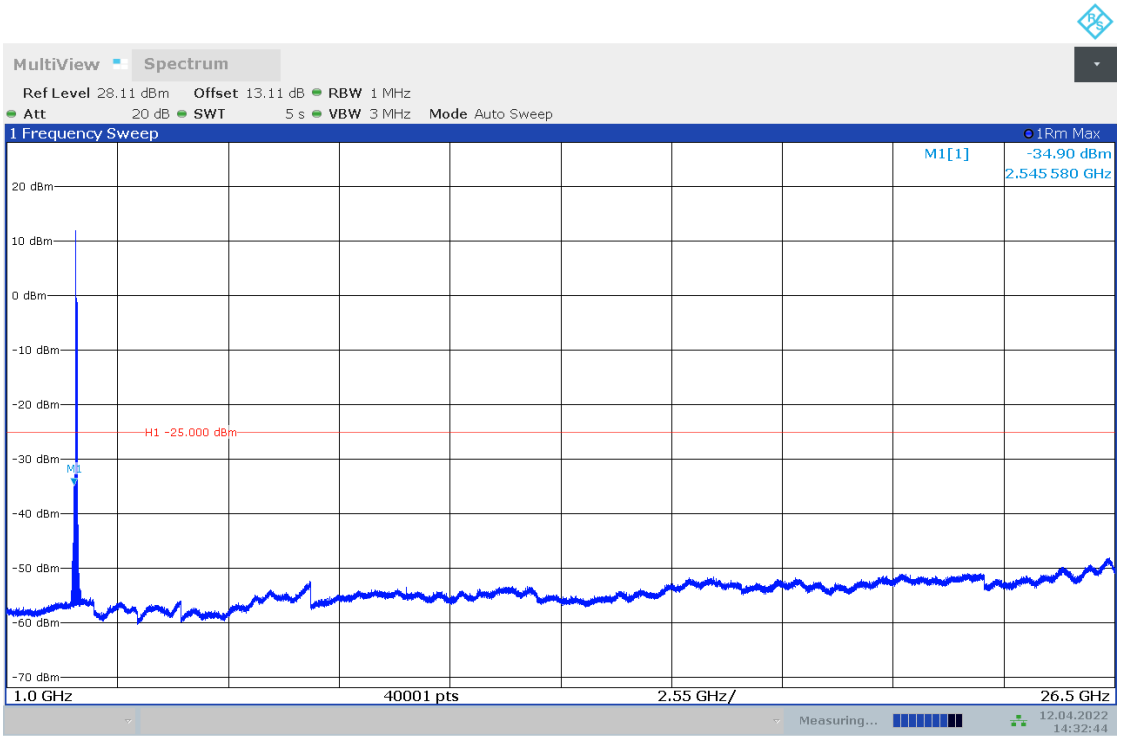

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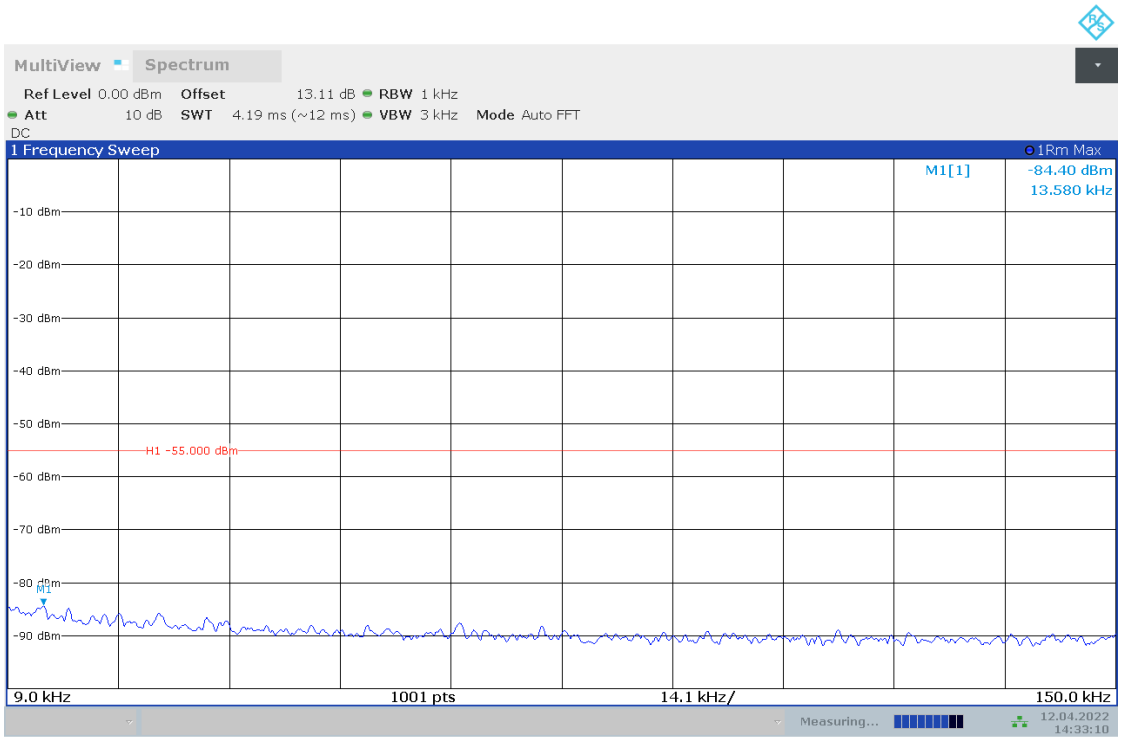
4.2.10 TM1_MCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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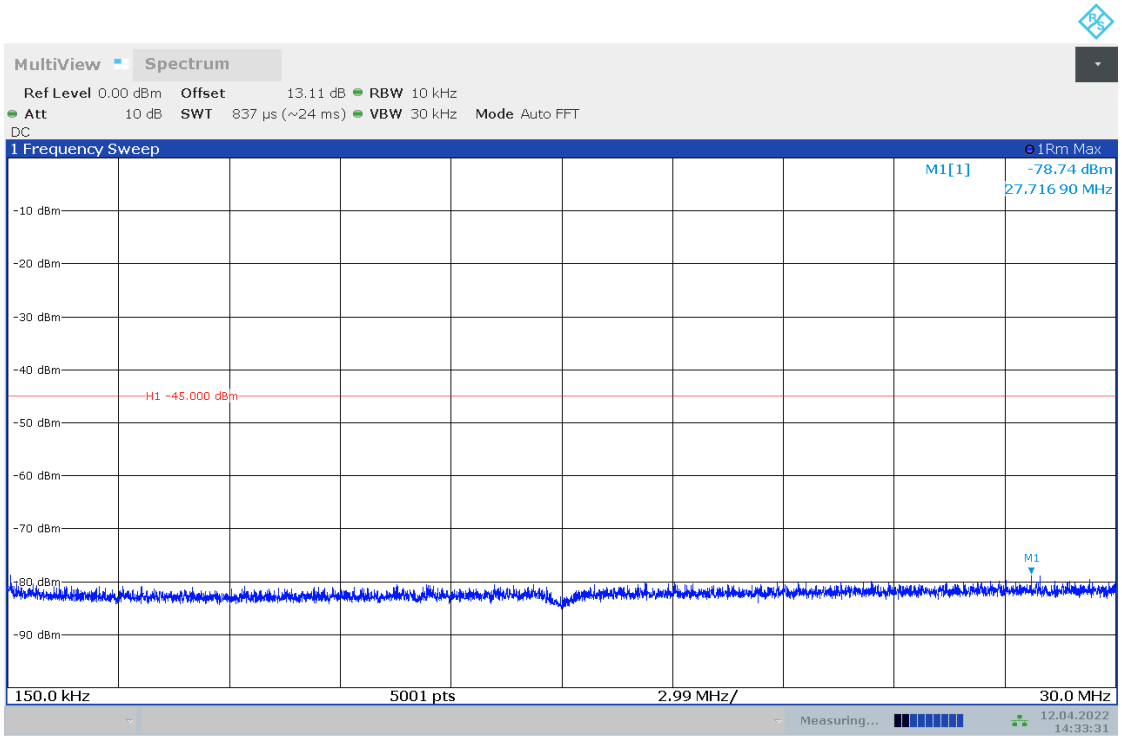

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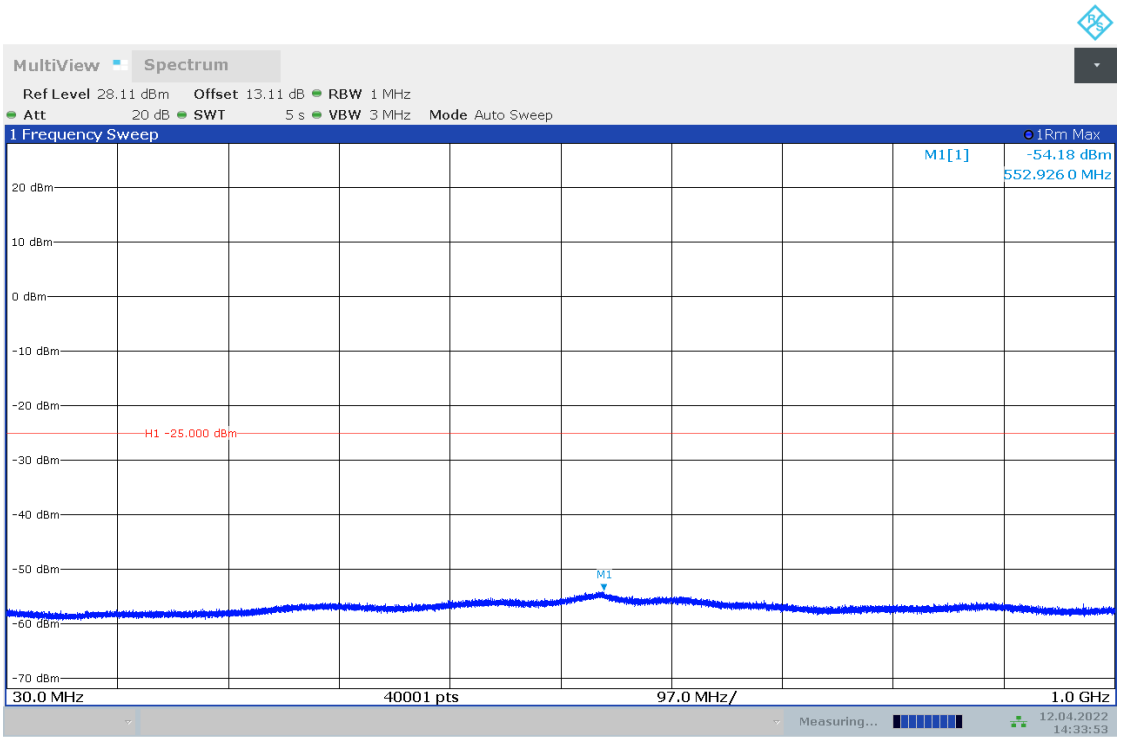

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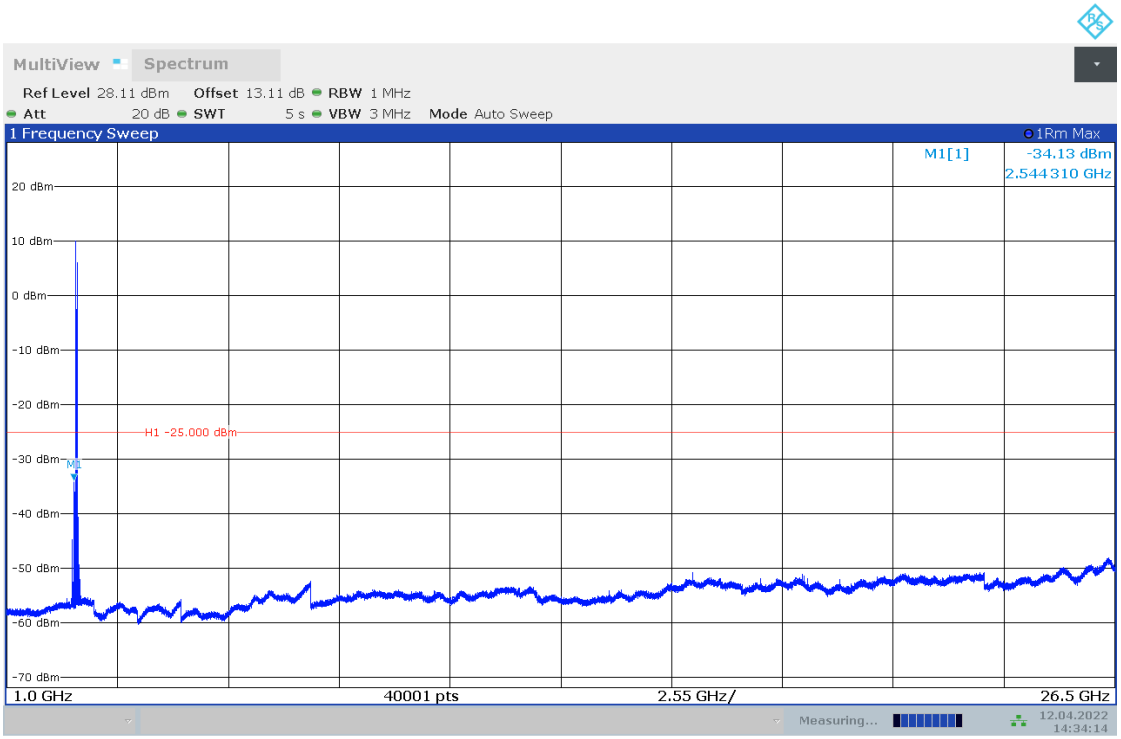

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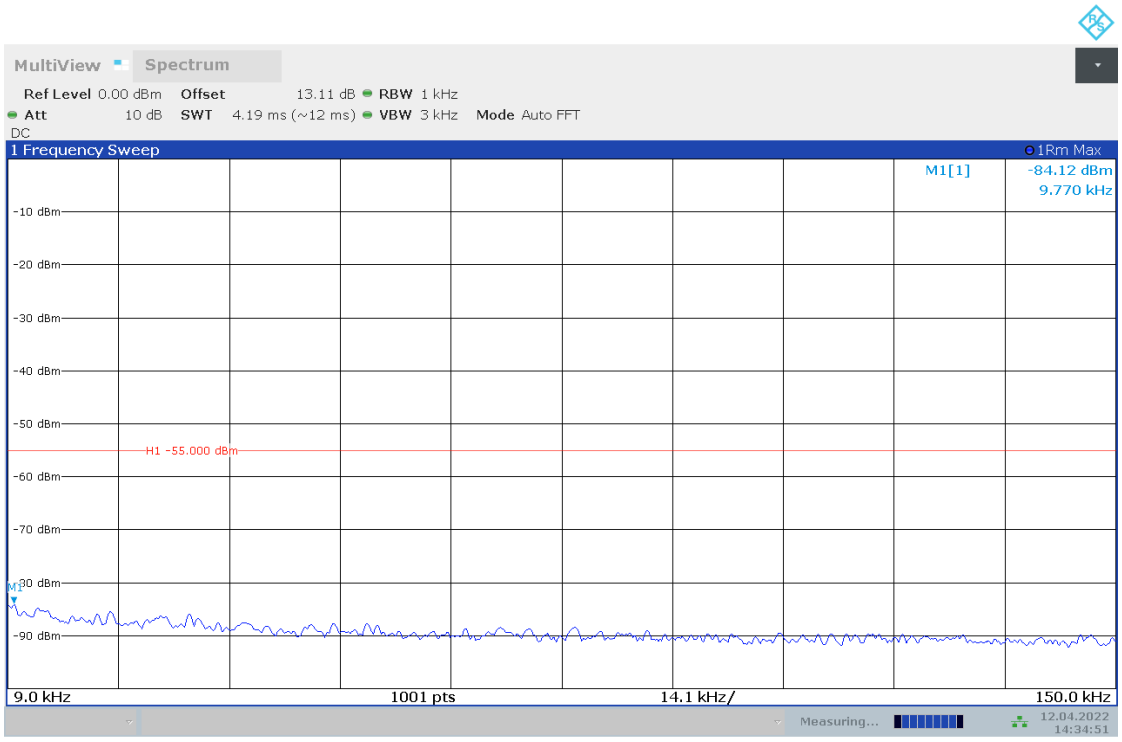
4.2.11 TM1_HCH_20MHZ+20MHZ_PCCRB100#0_SCCRB100#0



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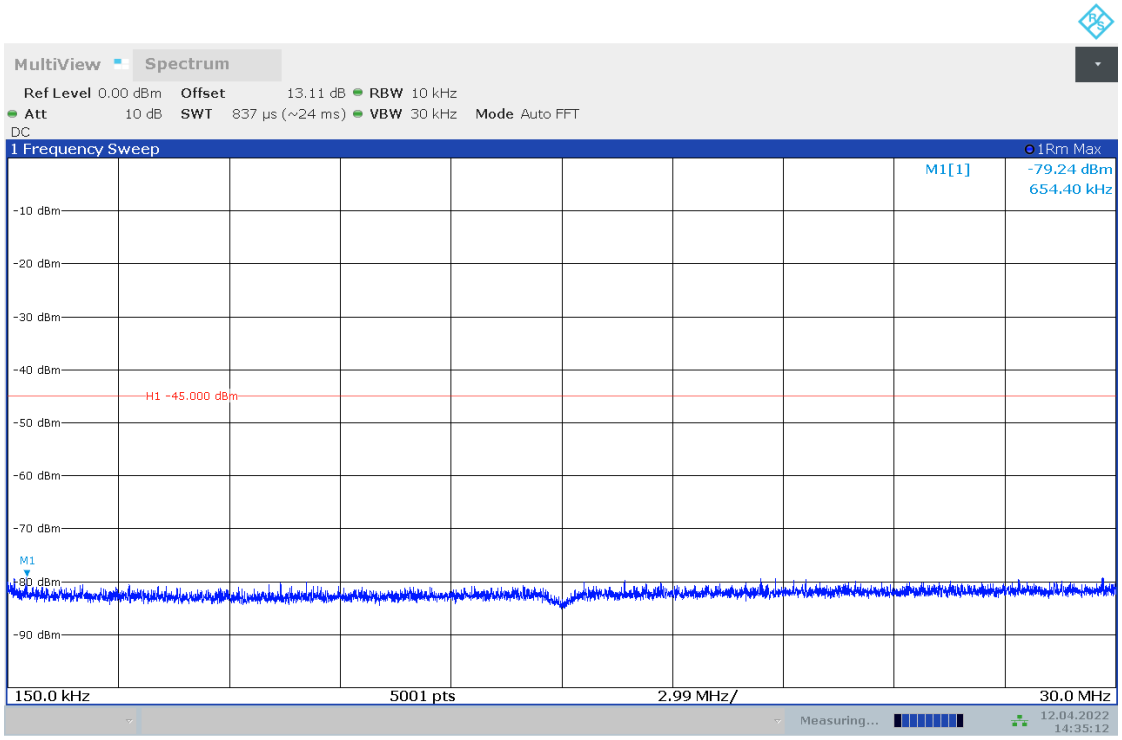

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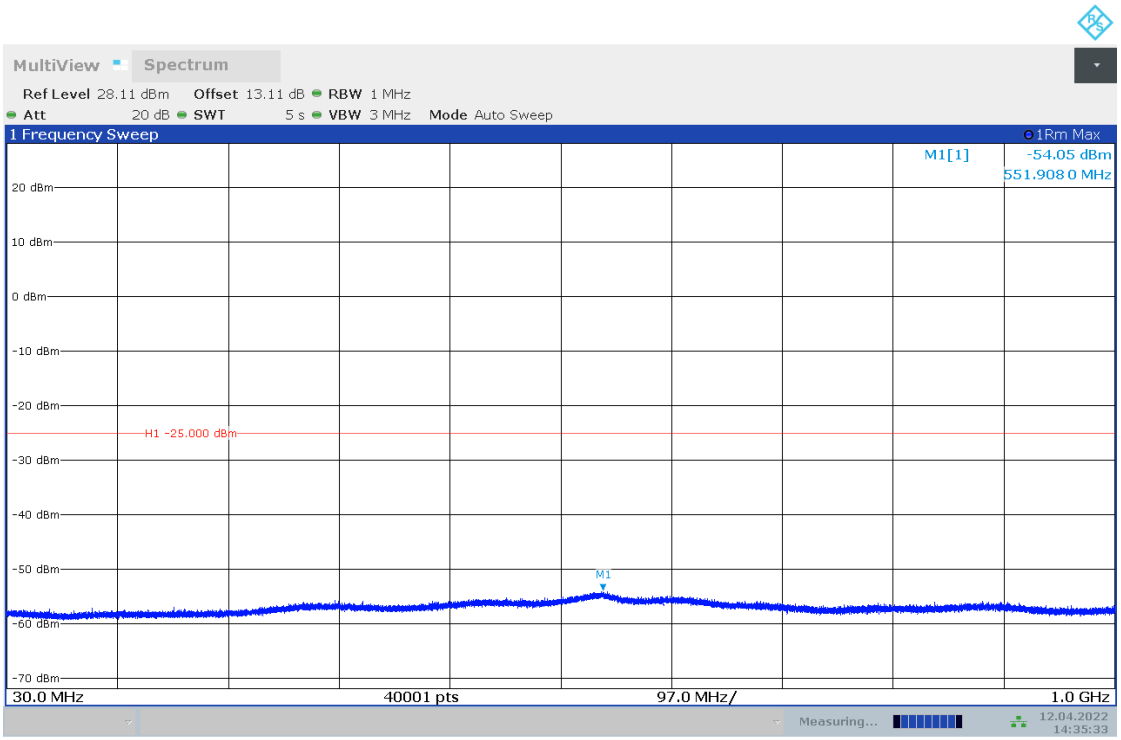
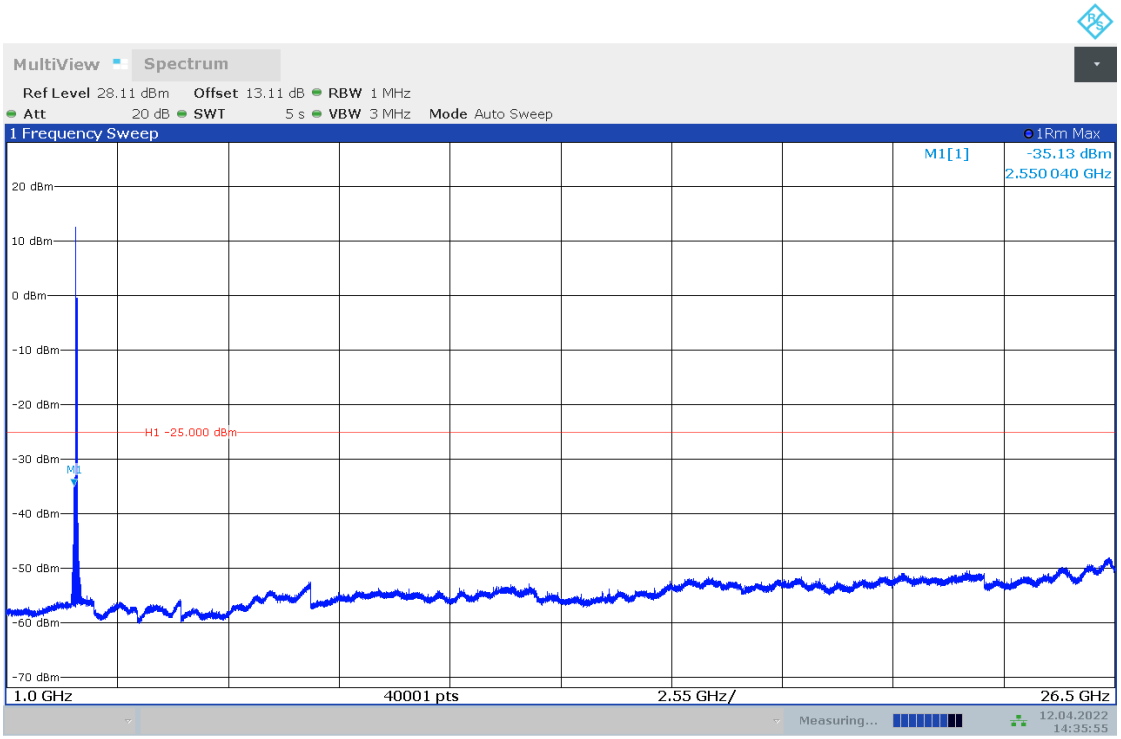


14:35:34 12.04.2022



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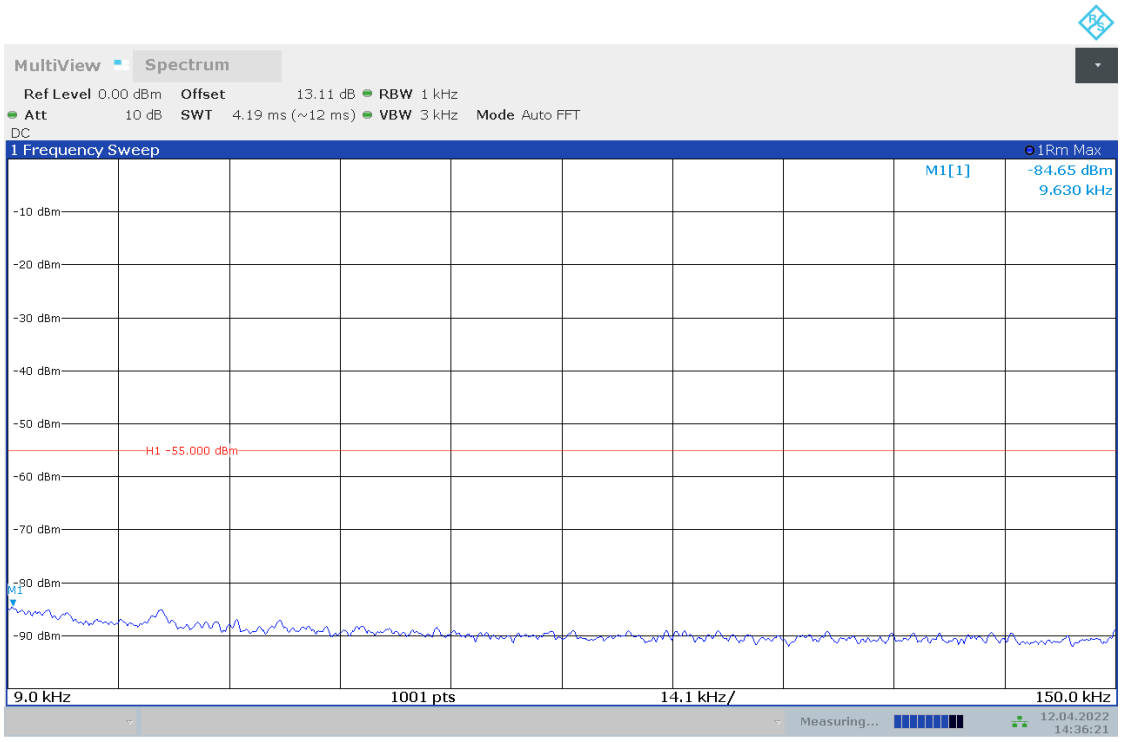
4.2.12 TM1_HCH_20MHZ+20MHZ_PCCRB1#0_SCCRB1#99



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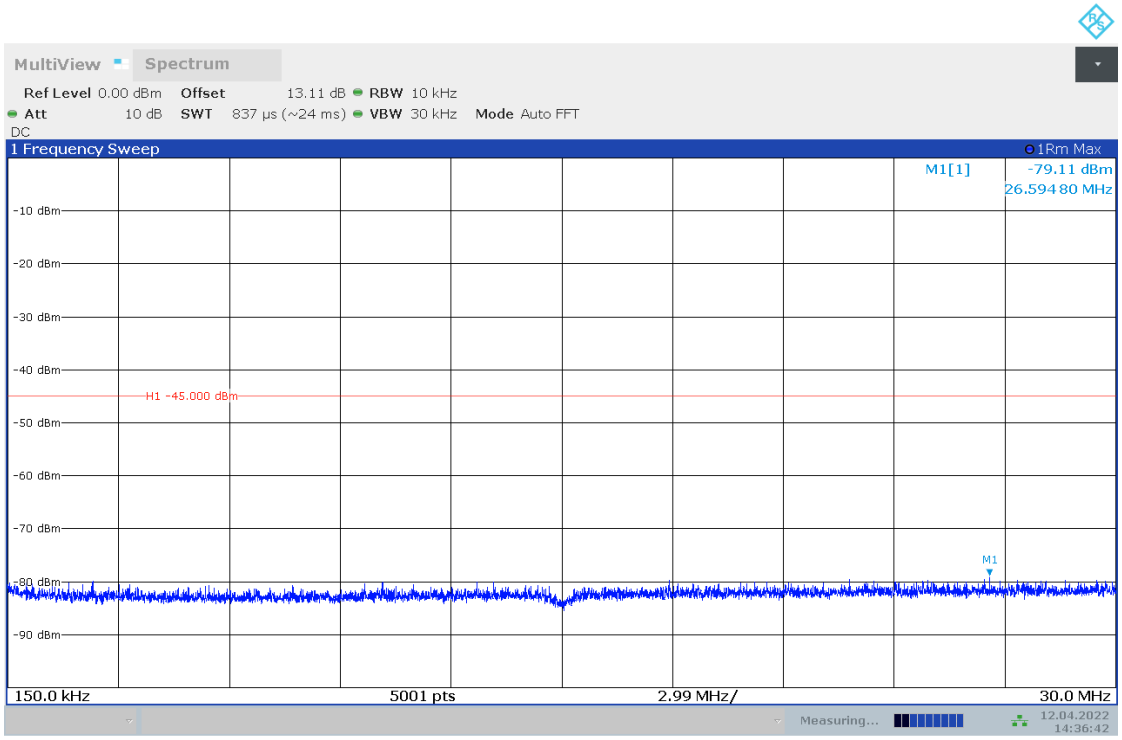

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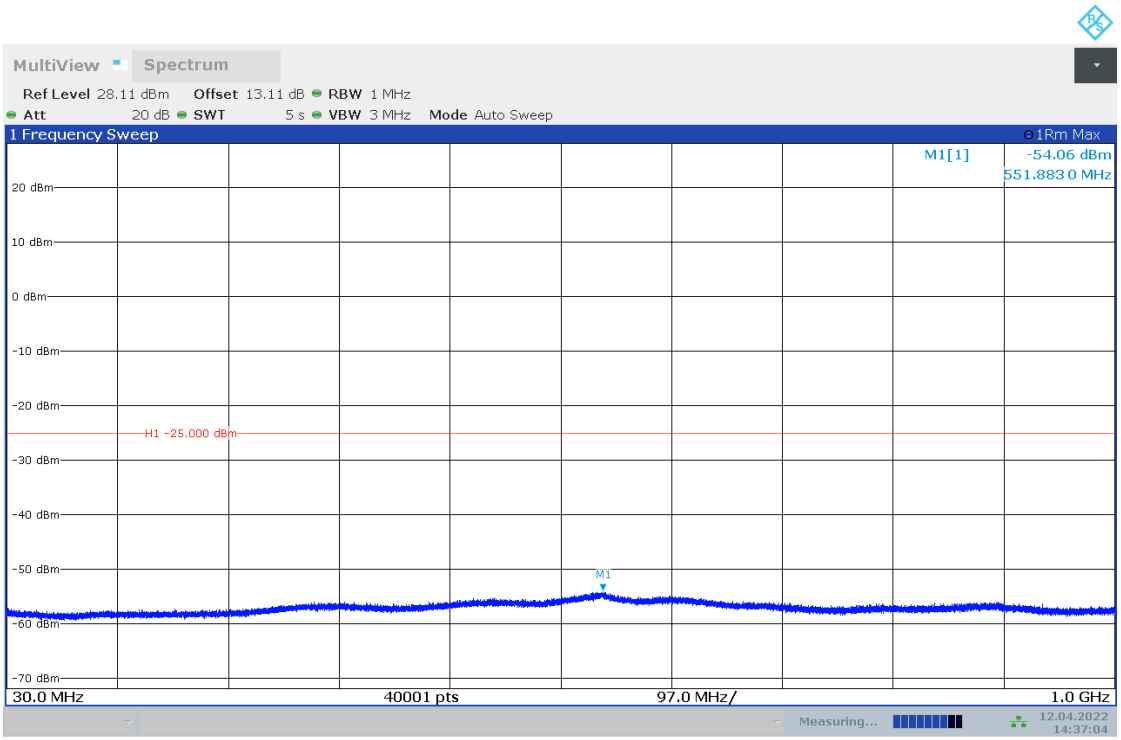

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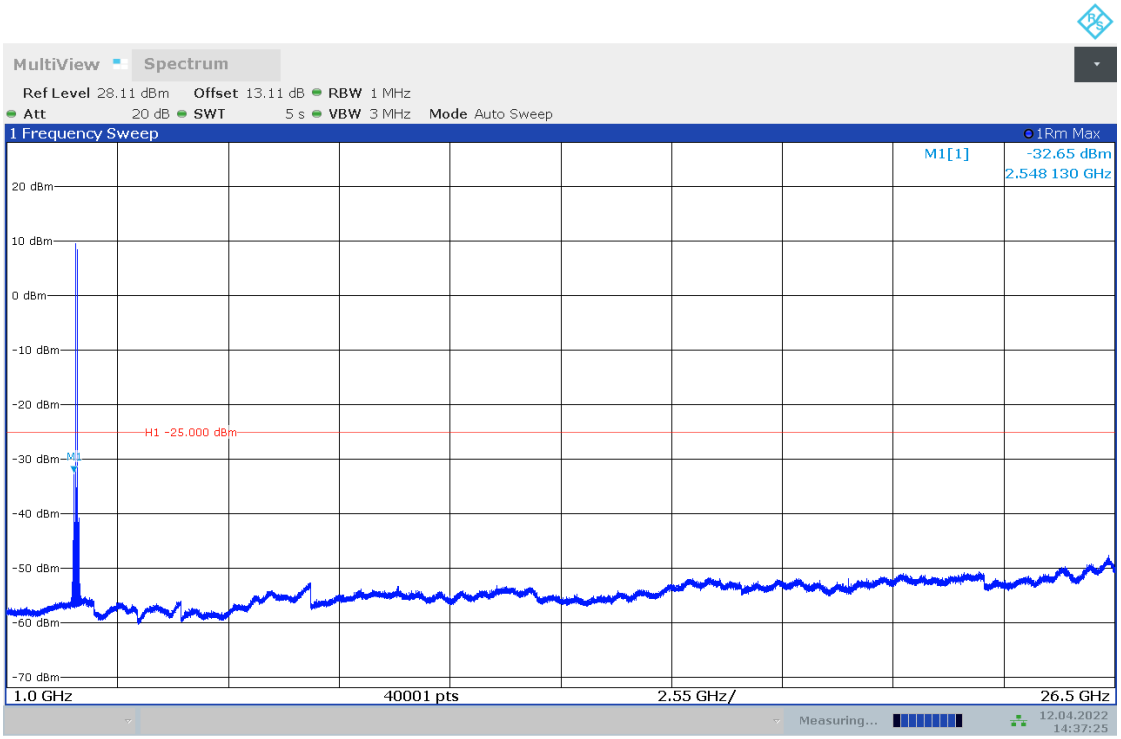

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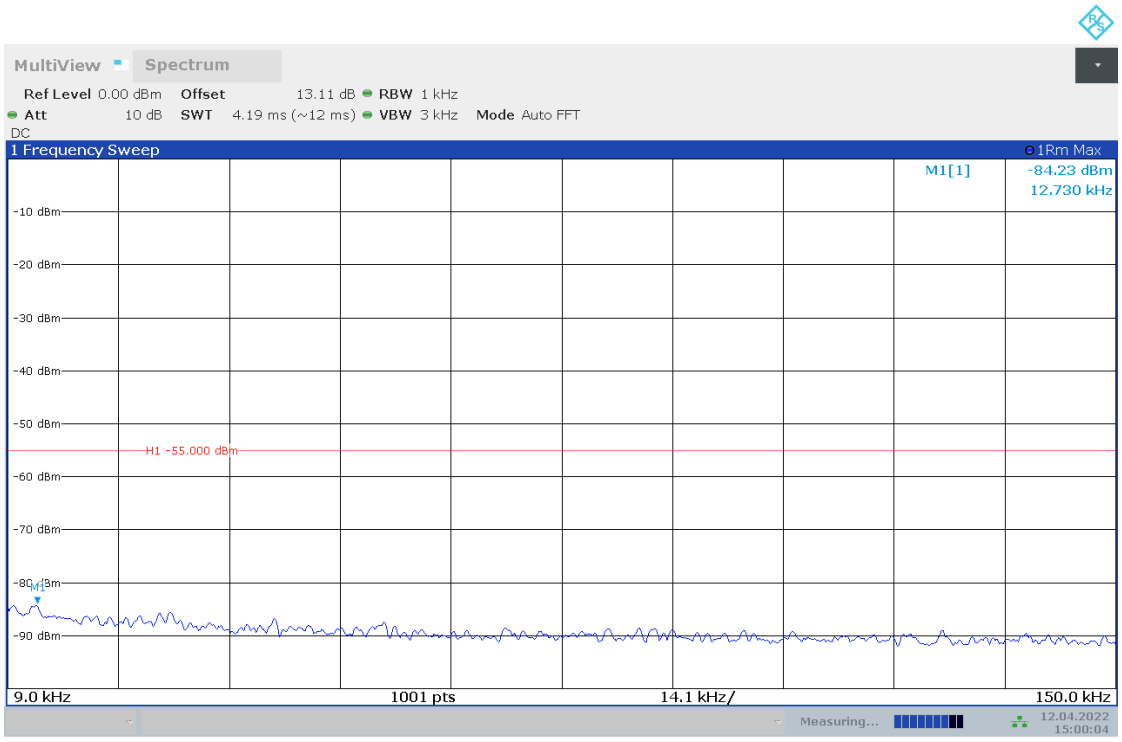
4.2.13 TM2_LCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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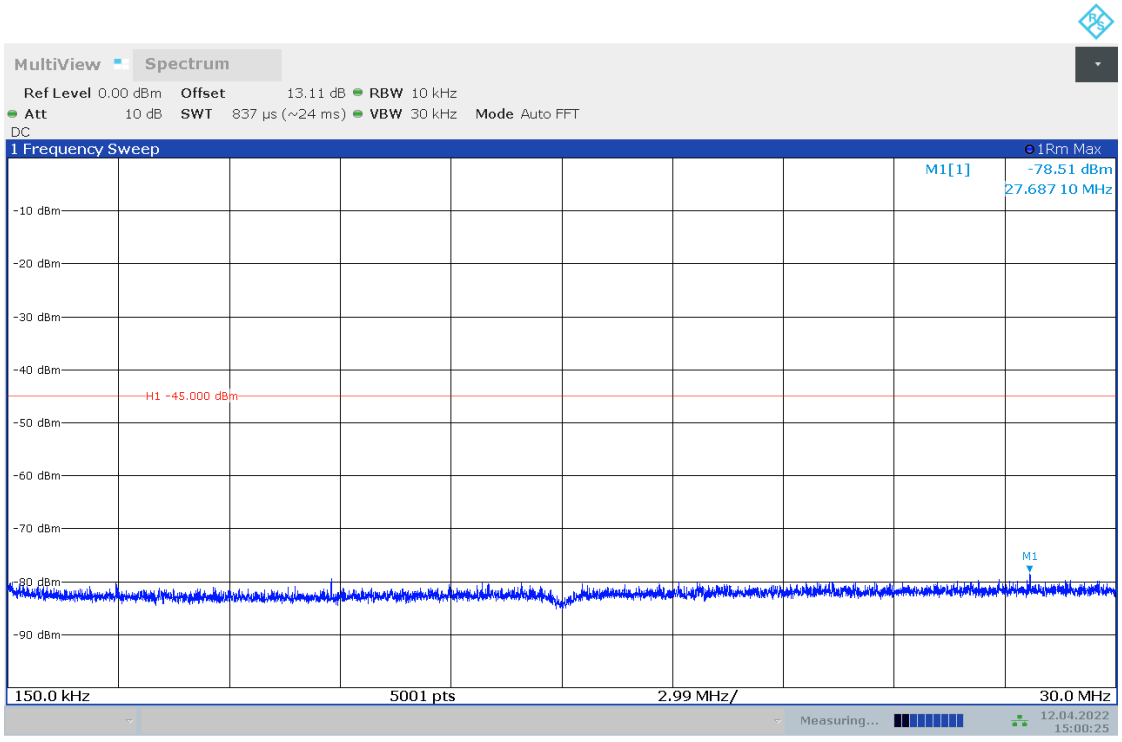

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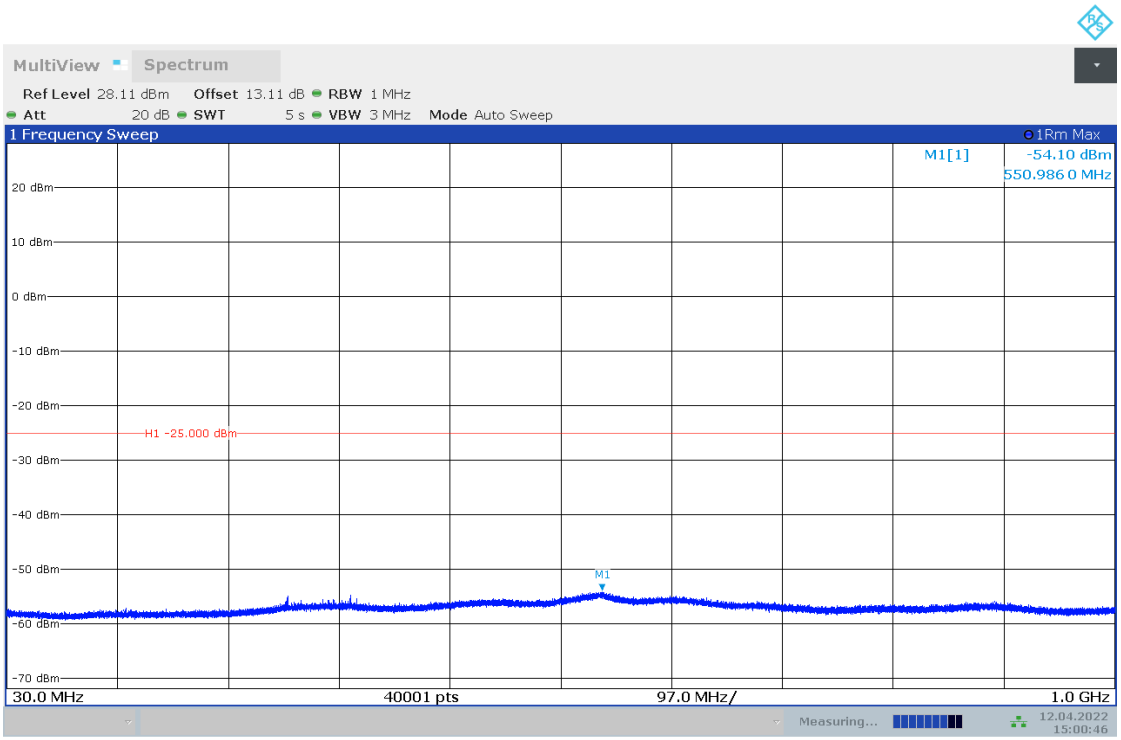

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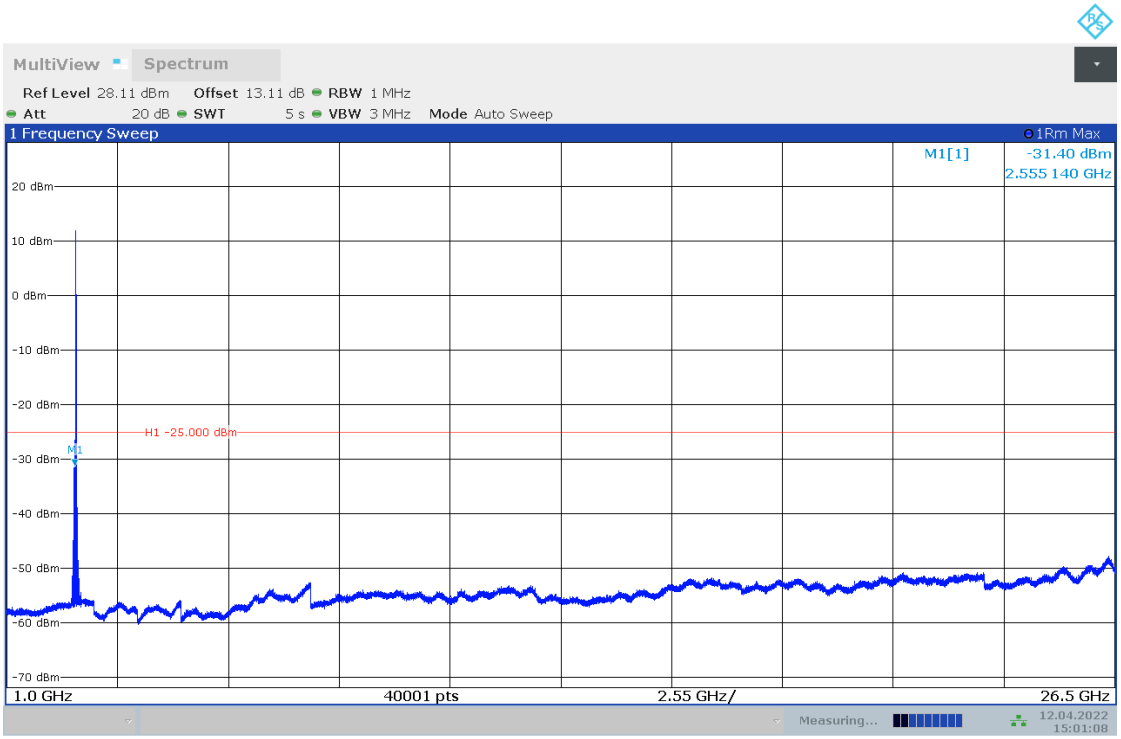

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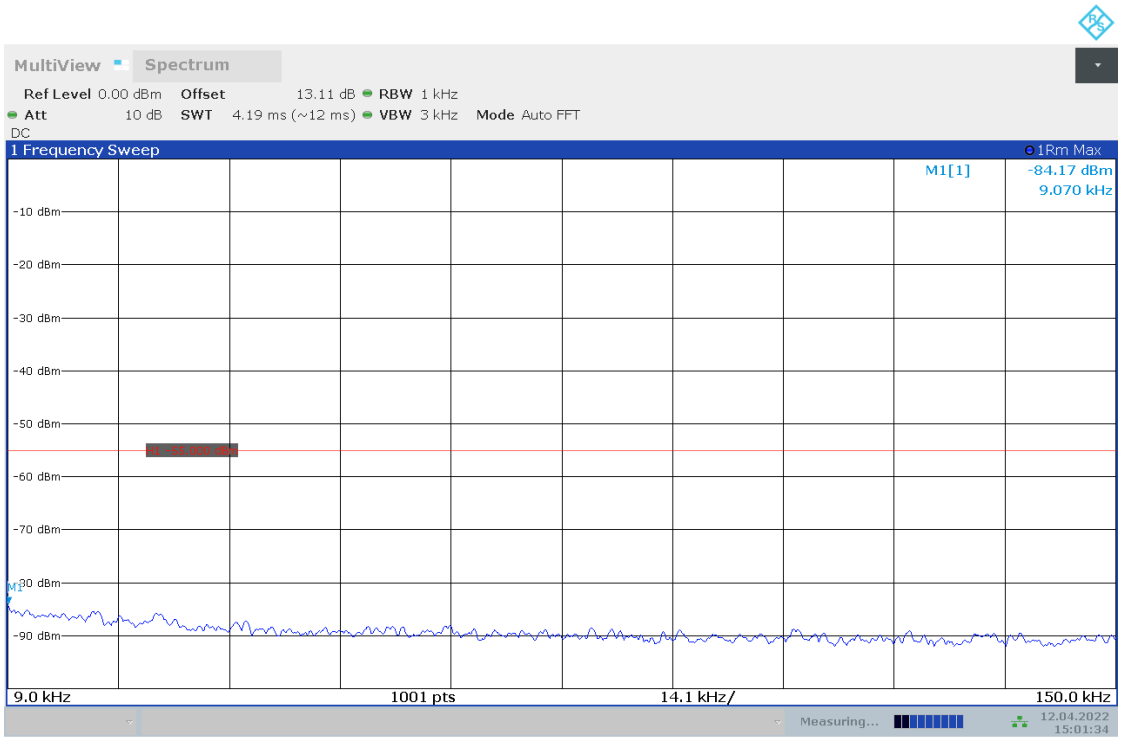
4.2.14 TM2_LCH_15MHZ+15MHZ_PCCRB1#0_SCCRB1#74



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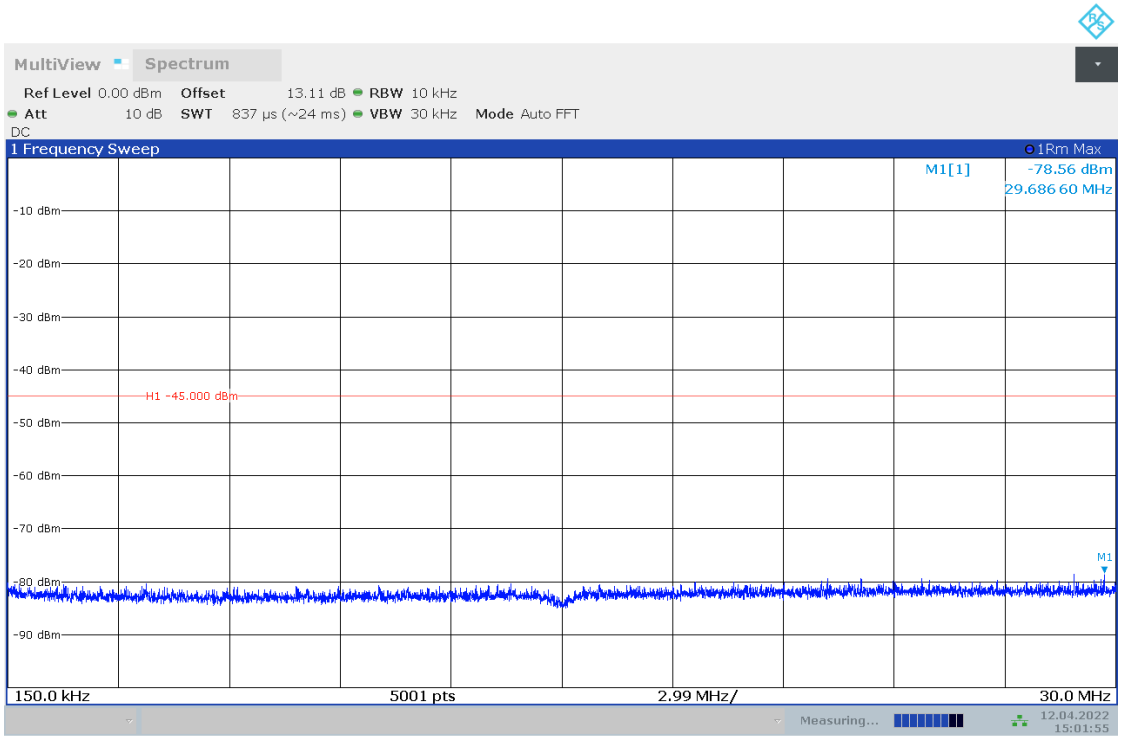

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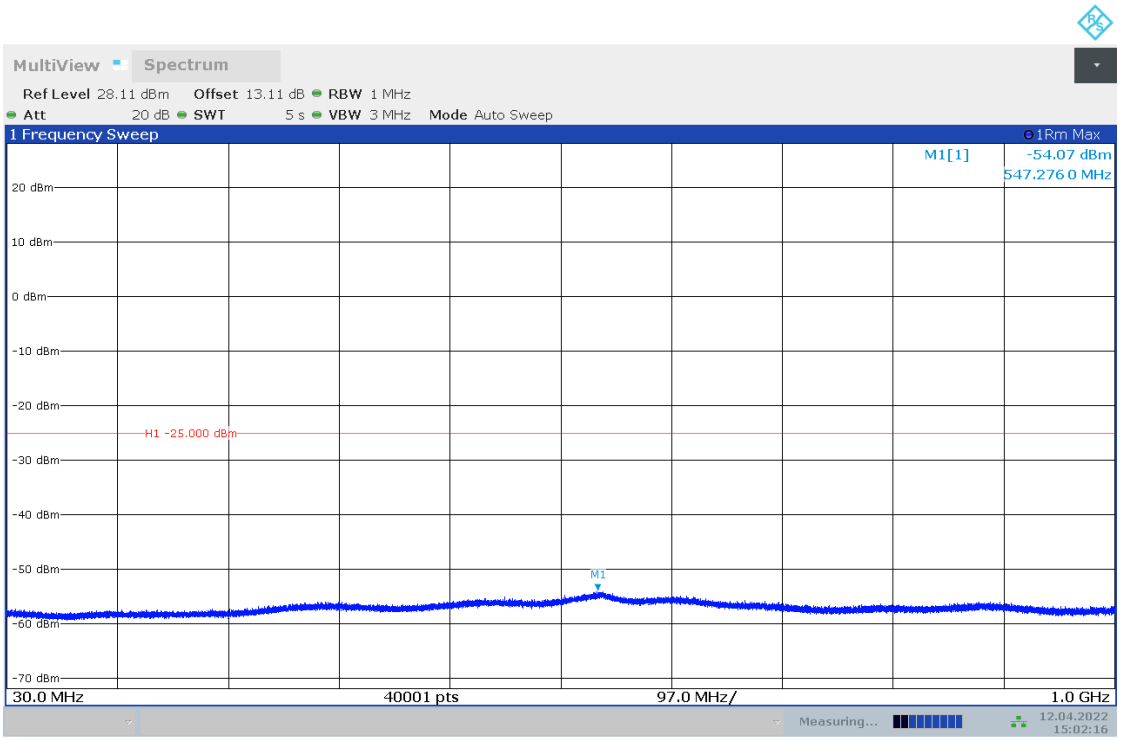

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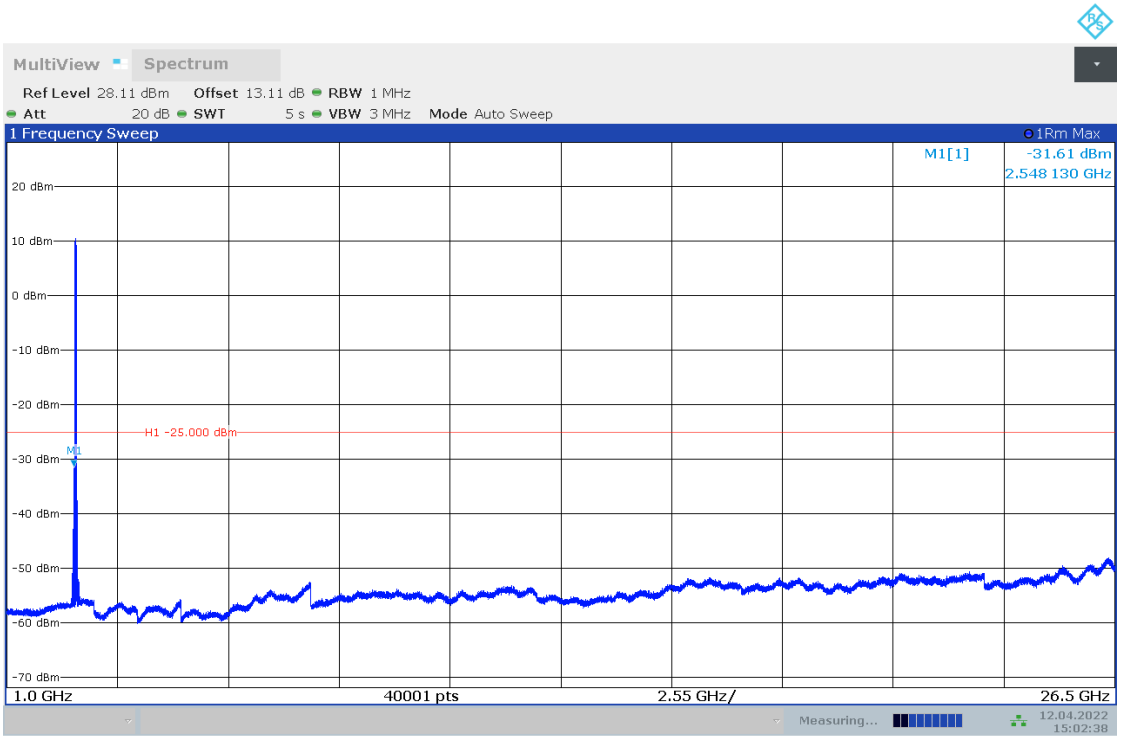

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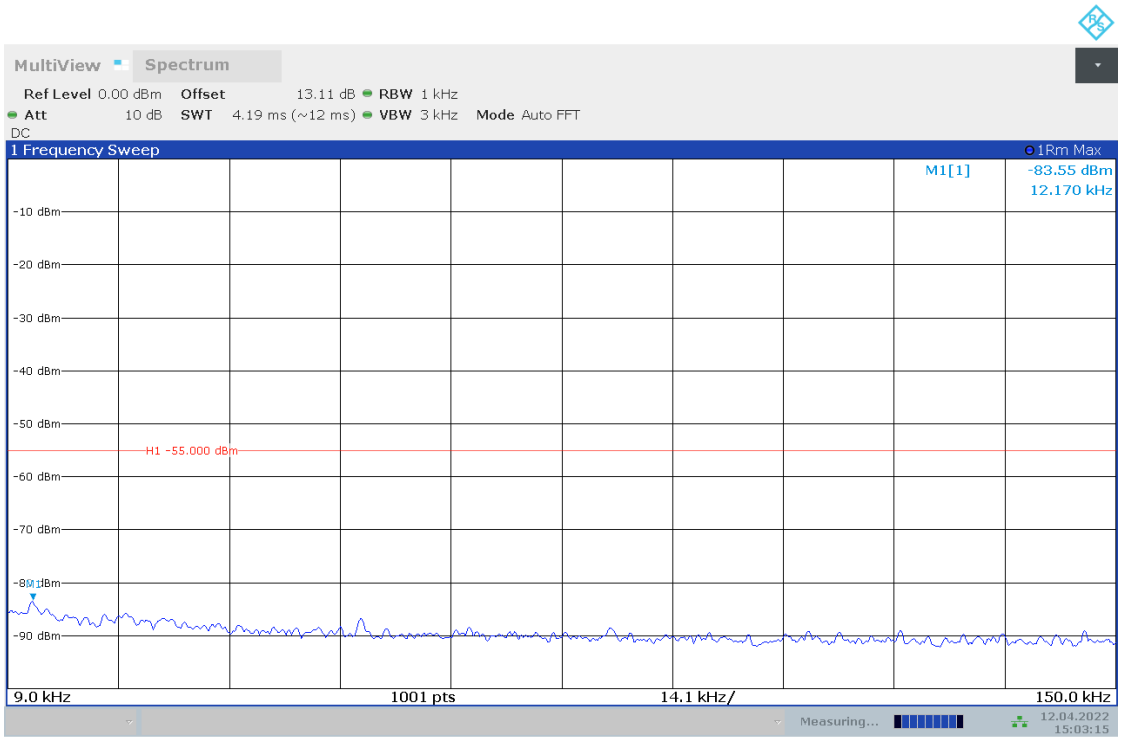
4.2.15 TM2_MCH_15MHZ+15MHZ_PCCRB75#0_SCCRB75#0



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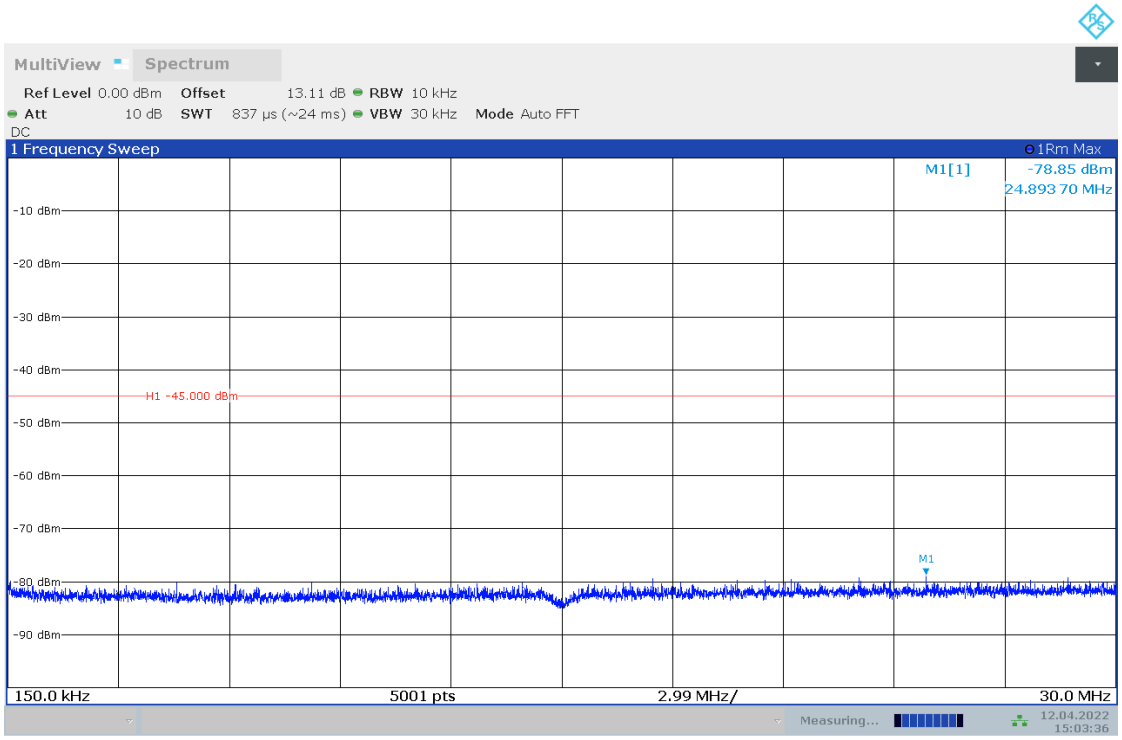

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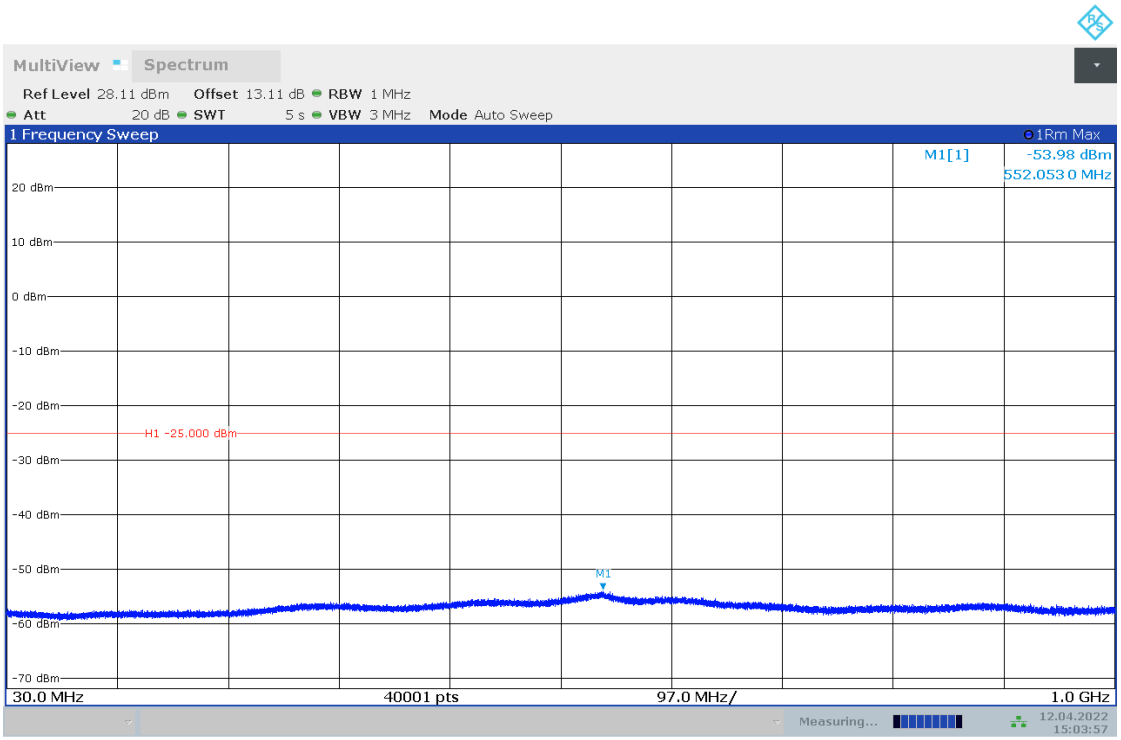

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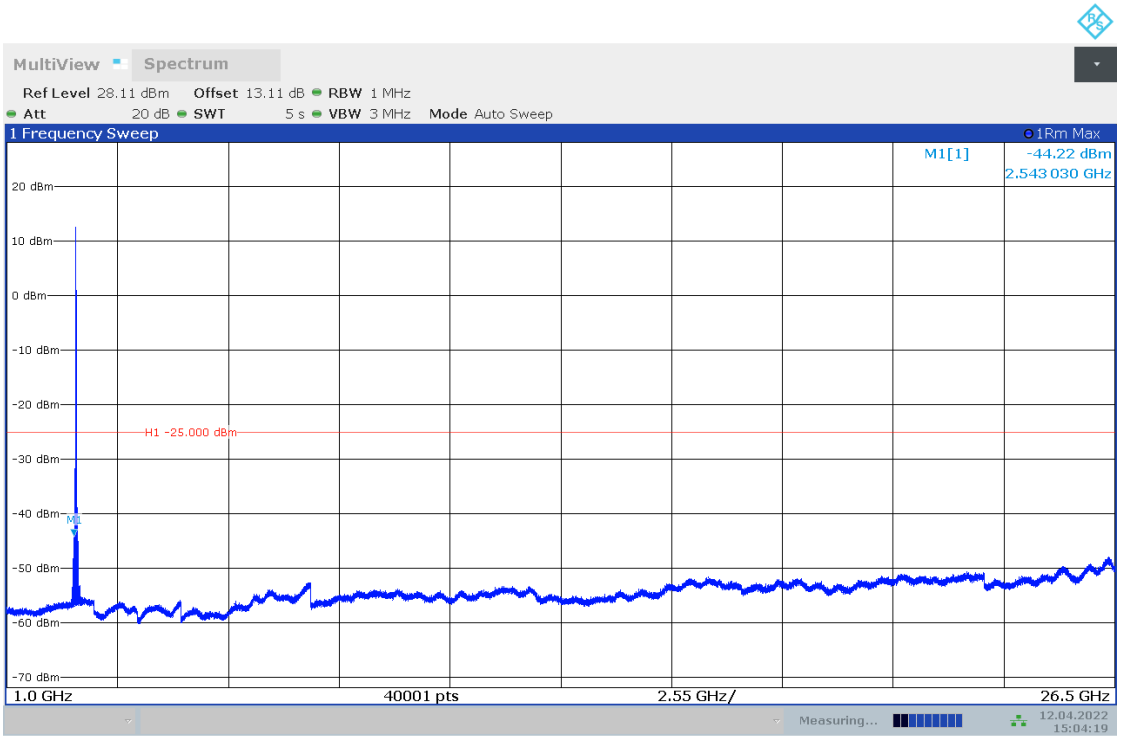

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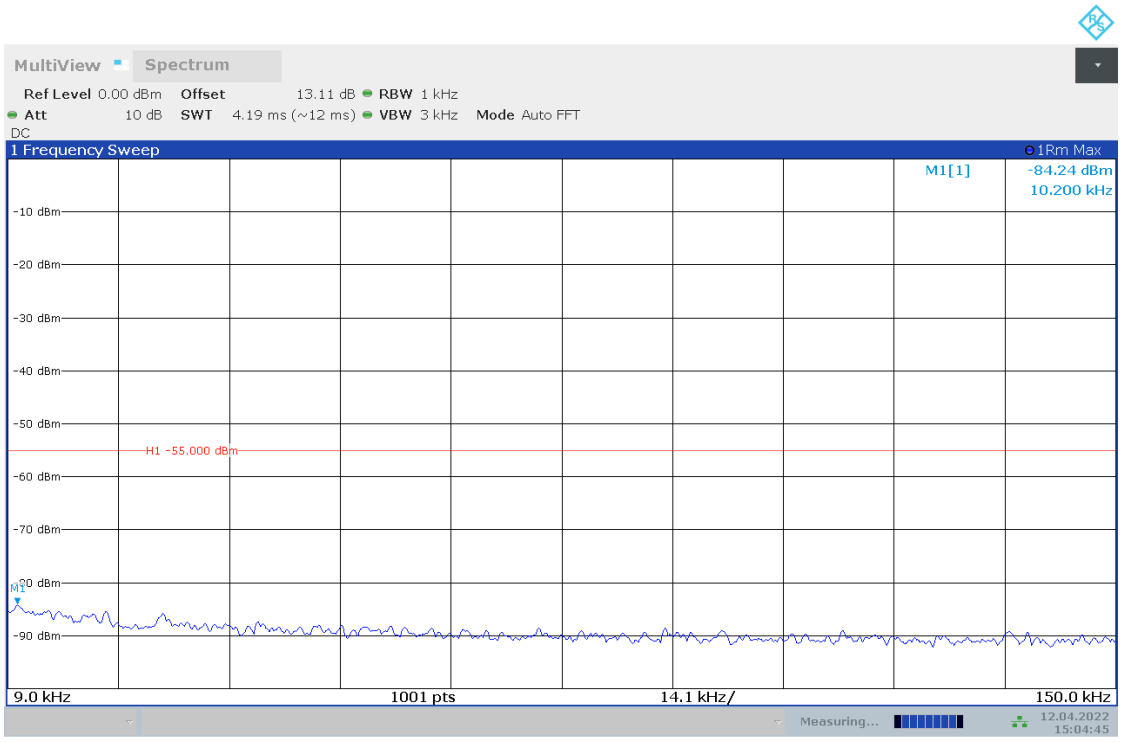

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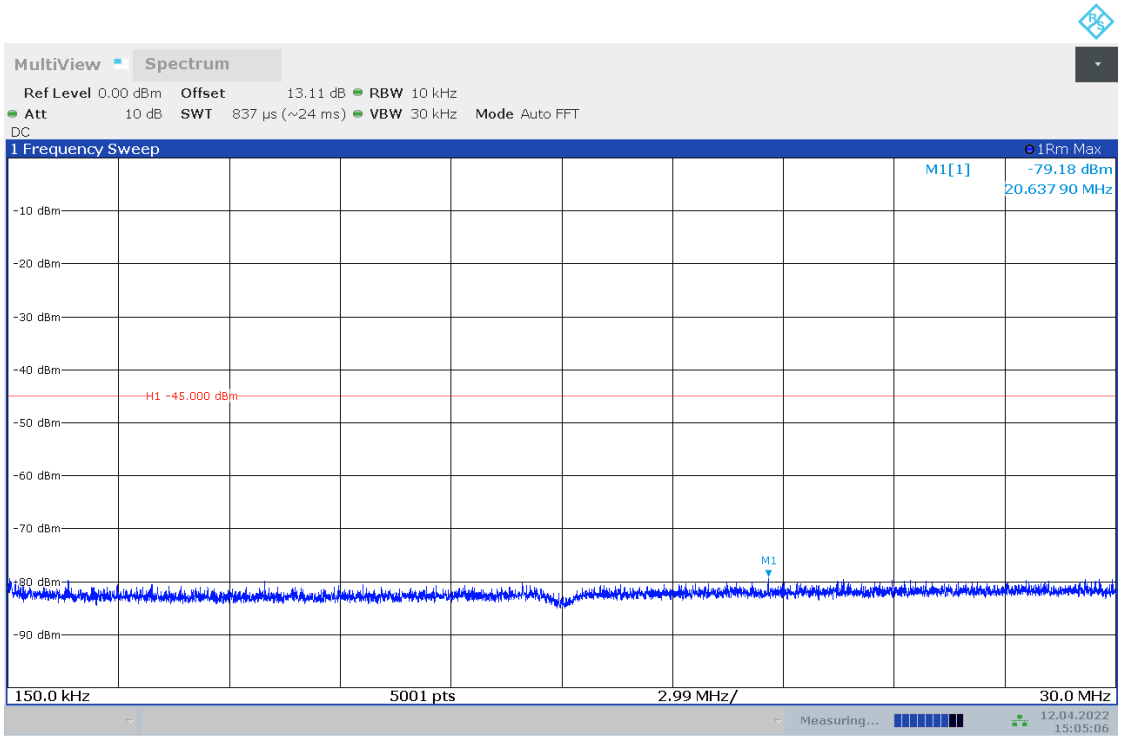

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