



Report No.: BTL-FCCP-3-2203G019

Appendix for LTE CA_41C

Model: LGE-NX9

BTL-FCCP-3-2203G019

CONTENT

1	Appendix_A: Effective (Isotropic) Radiated Power of Transmitter	4
1.1	Test Results	4
2	Appendix B: Occupied Bandwidth	5
2.1	Test Results	5
2.2	Test Plots	6
2.2.1	TM1_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0.....	6
2.2.2	TM1_MCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0.....	7
2.2.3	TM1_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	8
2.2.4	TM1_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	9
2.2.5	TM1_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	10
2.2.6	TM1_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	11
2.2.7	TM2_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	12
2.2.8	TM2_MCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	13
2.2.9	TM2_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	14
2.2.10	TM2_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	15
2.2.11	TM2_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	16
2.2.12	TM2_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	17
2.2.13	TM3_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	18
2.2.14	TM3_MCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	19
2.2.15	TM3_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	20
2.2.16	TM3_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	21
2.2.17	TM3_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	22
2.2.18	TM3_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	23
3	Appendix_C: Band Edges Compliance	24
3.1	Test Results	24
3.2	Test Plots	25
3.2.1	TM1_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0.....	25
3.2.2	TM1_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74.....	26
3.2.3	TM1_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	27
3.2.4	TM1_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	28
3.2.5	TM1_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	29
3.2.6	TM1_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	30
3.2.7	TM1_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	31
3.2.8	TM1_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	32
3.2.9	TM2_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	33
3.2.10	TM2_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	34
3.2.11	TM2_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	35
3.2.12	TM2_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	36
3.2.13	TM2_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	37
3.2.14	TM2_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	38
3.2.15	TM2_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	39

3.2.16	TM2_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	40
3.2.17	TM3_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	41
3.2.18	TM3_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	42
3.2.19	TM3_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	43
3.2.20	TM3_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	44
3.2.21	TM3_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	45
3.2.22	TM3_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	46
3.2.23	TM3_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	47
3.2.24	TM3_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	48
4	Appendix_D: Spurious Emission at Antenna Terminal	49
4.1	Test Results	49
4.2	Test Plots	53
4.2.1	TM1_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	53
4.2.2	TM1_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	55
4.2.3	TM1_MCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	57
4.2.4	TM1_MCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	59
4.2.5	TM1_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	61
4.2.6	TM1_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	63
4.2.7	TM1_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	65
4.2.8	TM1_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	67
4.2.9	TM1_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	69
4.2.10	TM1_MCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	71
4.2.11	TM1_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	73
4.2.12	TM1_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	75
4.2.13	TM2_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	77
4.2.14	TM2_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	79
4.2.15	TM2_MCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	81
4.2.16	TM2_MCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	83
4.2.17	TM2_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0	85
4.2.18	TM2_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74	87
4.2.19	TM2_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	89
4.2.20	TM2_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	91
4.2.21	TM2_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	93
4.2.22	TM2_MCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	95
4.2.23	TM2_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0	97
4.2.24	TM2_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99	99

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	22.36	-2.1	20.26	33	PASS
			RB1#0	RB1#74	QPSK	20.29	-2.1	18.19	33	PASS
		MCH	RB75#0	RB75#0	QPSK	23.25	-2.1	21.15	33	PASS
			RB1#0	RB1#74	QPSK	21.23	-2.1	19.13	33	PASS
		HCH	RB75#0	RB75#0	QPSK	23.24	-2.1	21.14	33	PASS
			RB1#0	RB1#74	QPSK	21.19	-2.1	19.09	33	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	22.39	-2.1	20.29	33	PASS
			RB1#0	RB1#99	QPSK	19.86	-2.1	17.76	33	PASS
		MCH	RB100#0	RB100#0	QPSK	23.26	-2.1	21.16	33	PASS
			RB1#0	RB1#99	QPSK	20.74	-2.1	18.64	33	PASS
		HCH	RB100#0	RB100#0	QPSK	23.22	-2.1	21.12	33	PASS
			RB1#0	RB1#99	QPSK	20.71	-2.1	18.61	33	PASS
TM2	15+15	LCH	RB75#0	RB75#0	16QAM	22.35	-2.1	20.25	33	PASS
			RB1#0	RB1#74	16QAM	20.35	-2.1	18.25	33	PASS
		MCH	RB75#0	RB75#0	16QAM	23.24	-2.1	21.14	33	PASS
			RB1#0	RB1#74	16QAM	21.22	-2.1	19.12	33	PASS
		HCH	RB75#0	RB75#0	16QAM	23.20	-2.1	21.1	33	PASS
			RB1#0	RB1#74	16QAM	21.16	-2.1	19.06	33	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	22.43	-2.1	20.33	33	PASS
			RB1#0	RB1#99	16QAM	19.88	-2.1	17.78	33	PASS
		MCH	RB100#0	RB100#0	16QAM	23.28	-2.1	21.18	33	PASS
			RB1#0	RB1#99	16QAM	20.73	-2.1	18.63	33	PASS
		HCH	RB100#0	RB100#0	16QAM	23.24	-2.1	21.14	33	PASS
			RB1#0	RB1#99	16QAM	20.72	-2.1	18.62	33	PASS

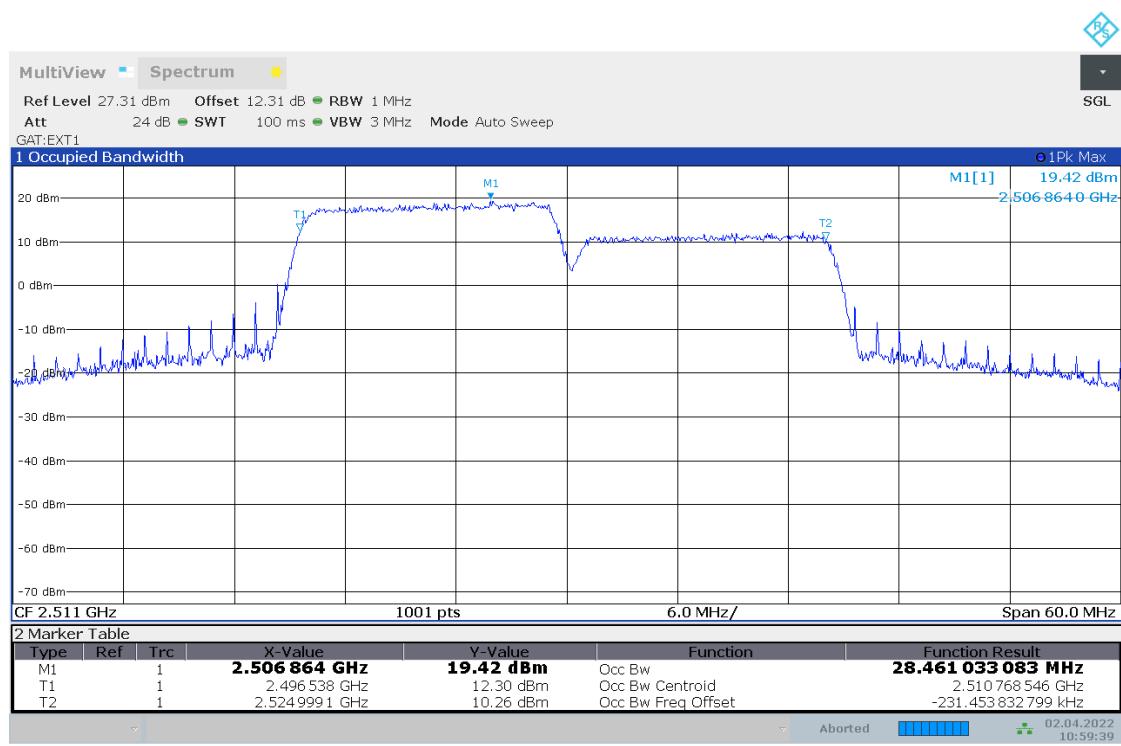
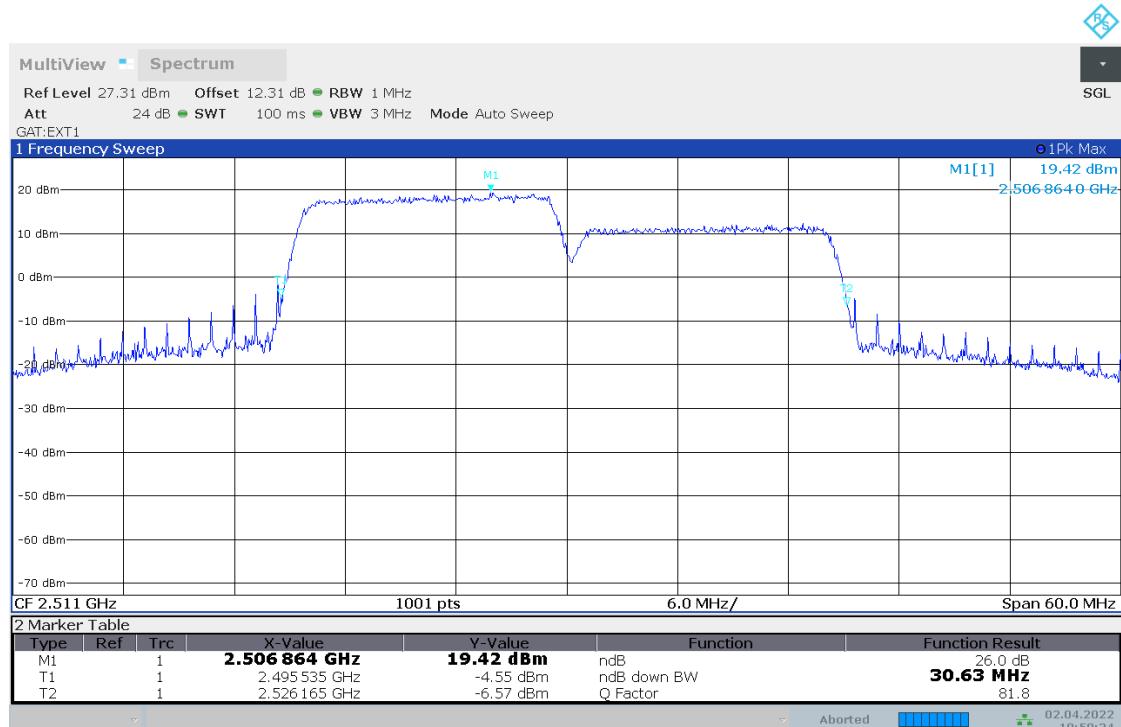
2 Appendix B: Occupied Bandwidth

2.1 Test Results

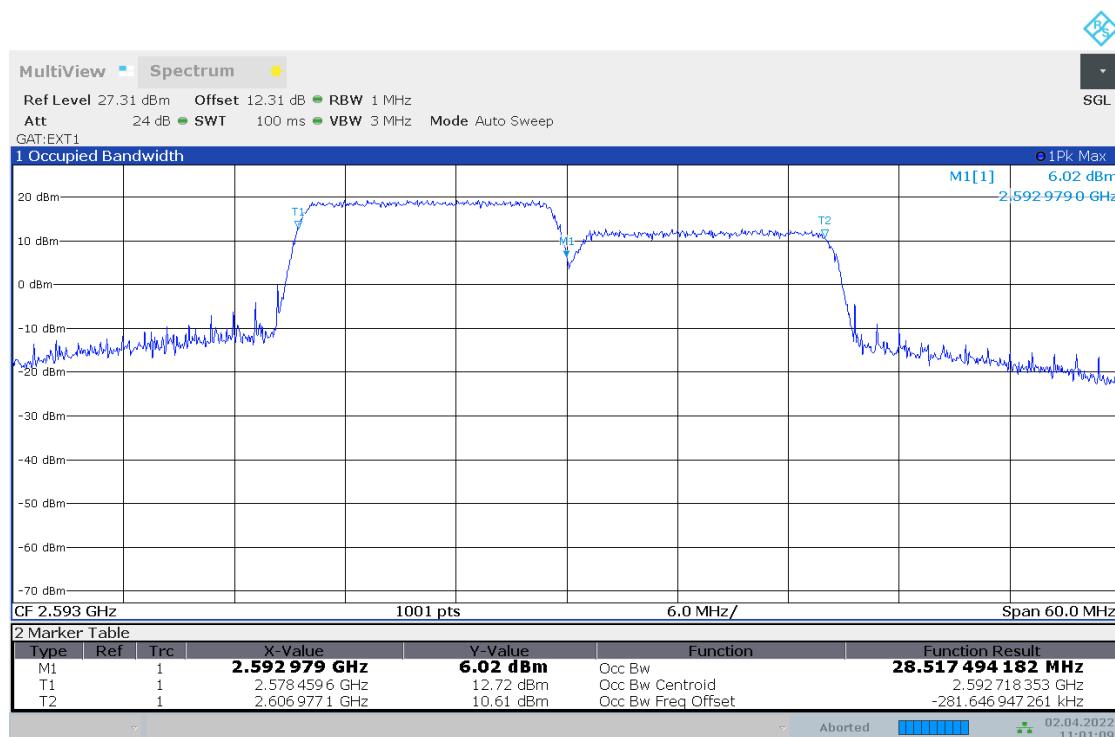
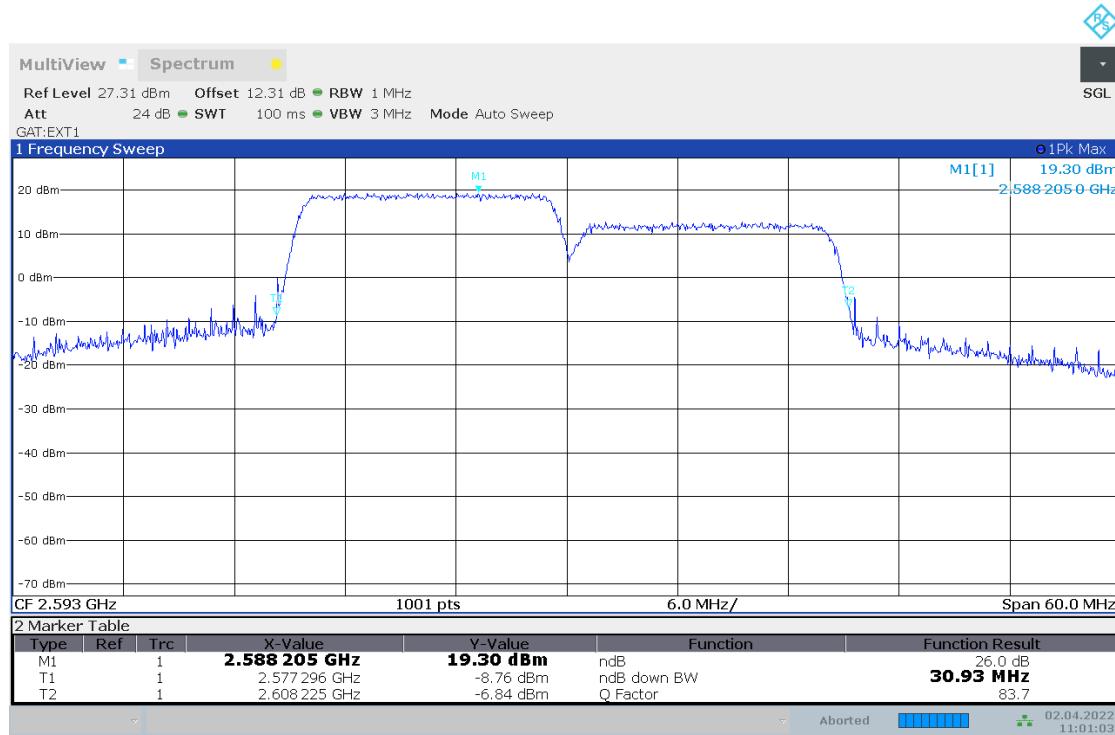
Occupied Bandwidth								
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM1	15+15	LCH	RB75#0	RB75#0	QPSK	28.46	30.63	PASS
		MCH	RB75#0	RB75#0	QPSK	28.52	30.93	PASS
		HCH	RB75#0	RB75#0	QPSK	28.47	30.69	PASS
	20+20	LCH	RB100#0	RB100#0	QPSK	38.42	42.12	PASS
		MCH	RB100#0	RB100#0	QPSK	38.50	42.28	PASS
		HCH	RB100#0	RB100#0	QPSK	38.45	42.20	PASS
TM2	15+15	LCH	RB75#0	RB75#0	16QAM	28.43	30.63	PASS
		MCH	RB75#0	RB75#0	16QAM	28.47	30.93	PASS
		HCH	RB75#0	RB75#0	16QAM	28.39	30.69	PASS
	20+20	LCH	RB100#0	RB100#0	16QAM	38.25	42.04	PASS
		MCH	RB100#0	RB100#0	16QAM	38.33	42.20	PASS
		HCH	RB100#0	RB100#0	16QAM	38.21	42.12	PASS
TM3	15+15	LCH	RB75#0	RB75#0	64QAM	28.40	30.63	PASS
		MCH	RB75#0	RB75#0	64QAM	28.49	30.69	PASS
		HCH	RB75#0	RB75#0	64QAM	28.41	30.75	PASS
	20+20	LCH	RB100#0	RB100#0	64QAM	38.20	41.88	PASS
		MCH	RB100#0	RB100#0	64QAM	38.38	42.12	PASS
		HCH	RB100#0	RB100#0	64QAM	38.21	42.12	PASS

2.2 Test Plots

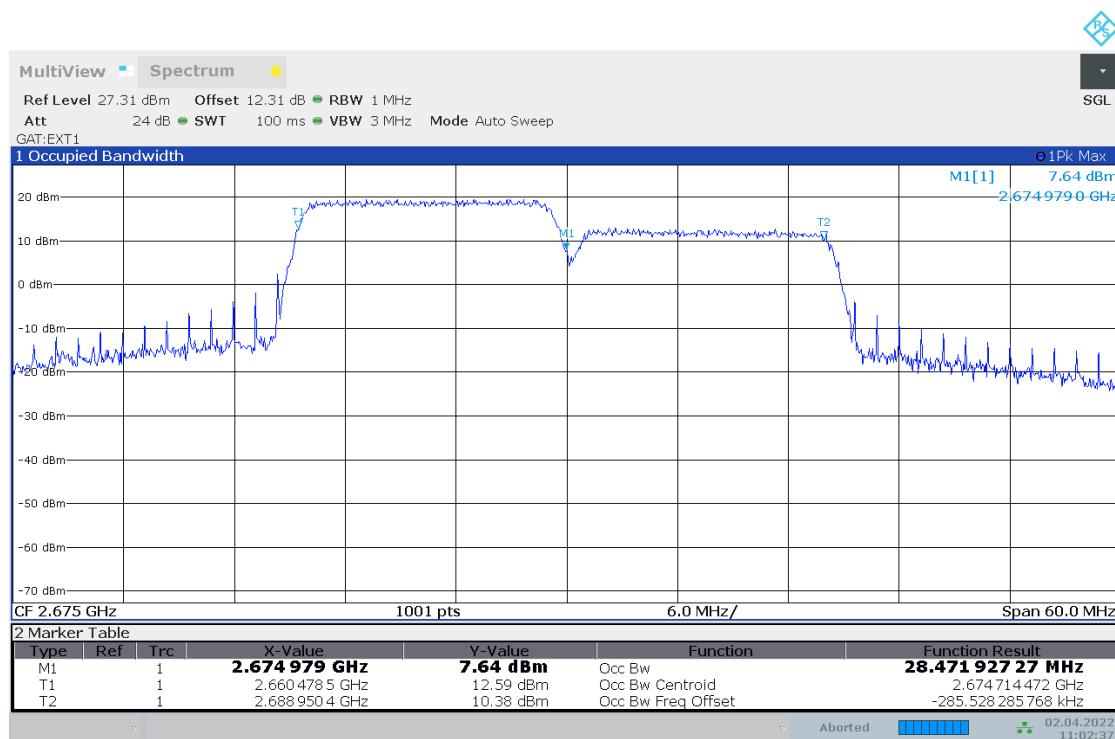
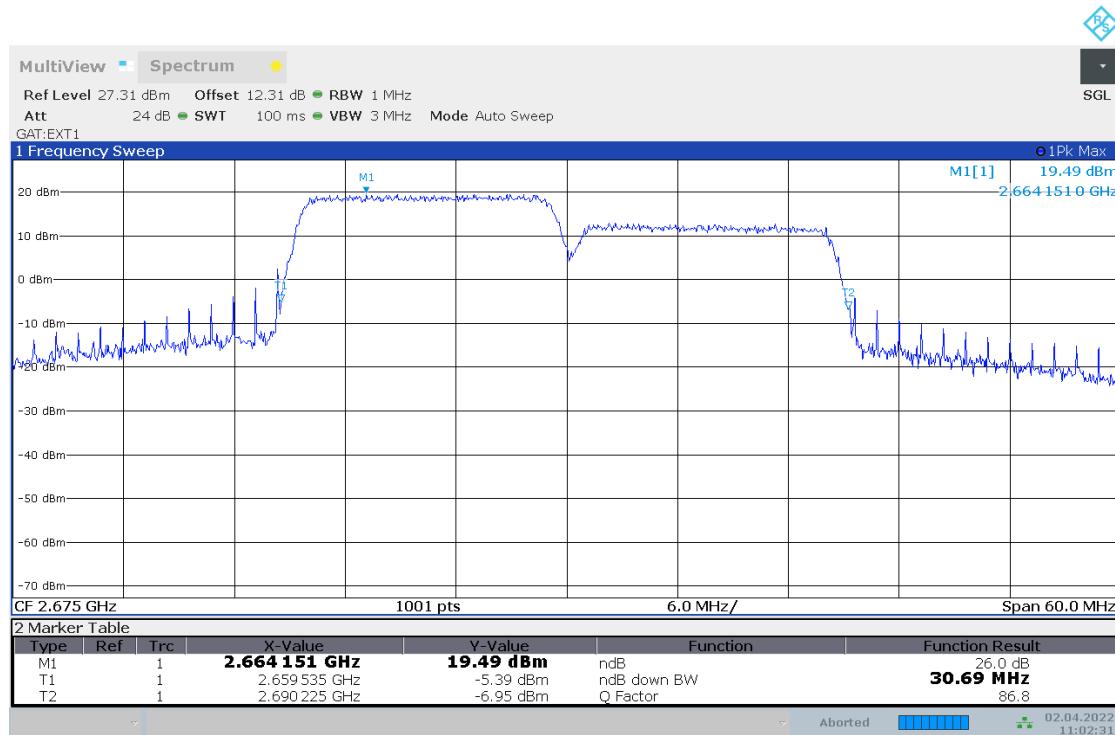
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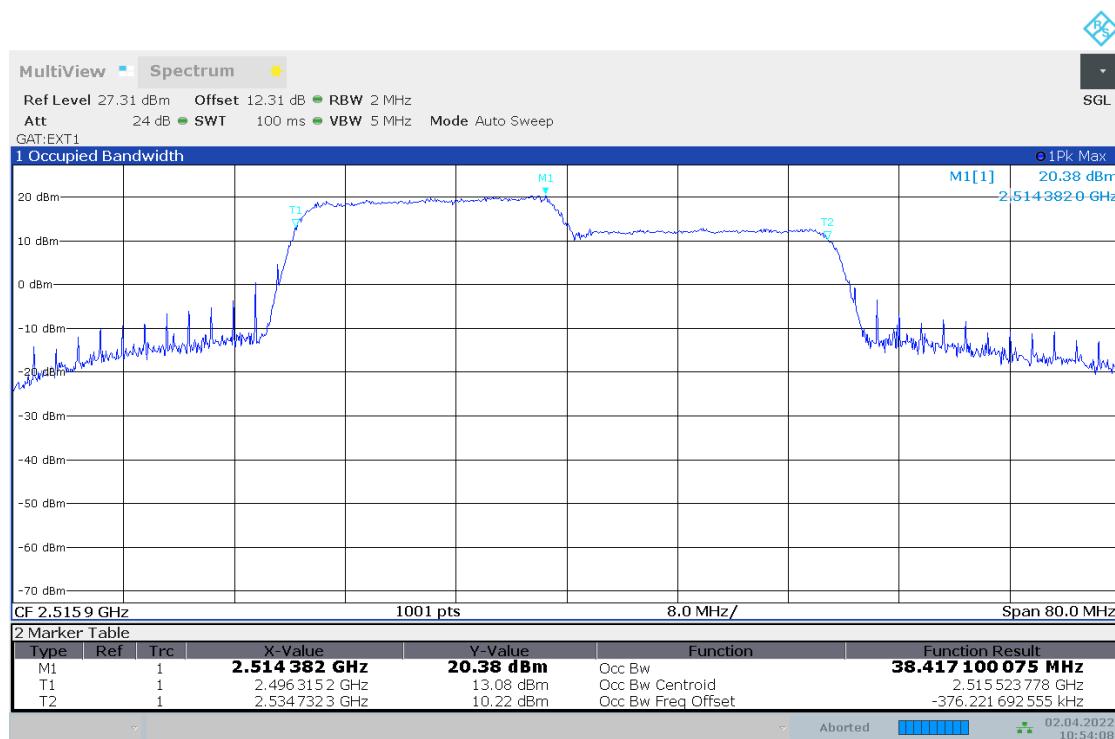
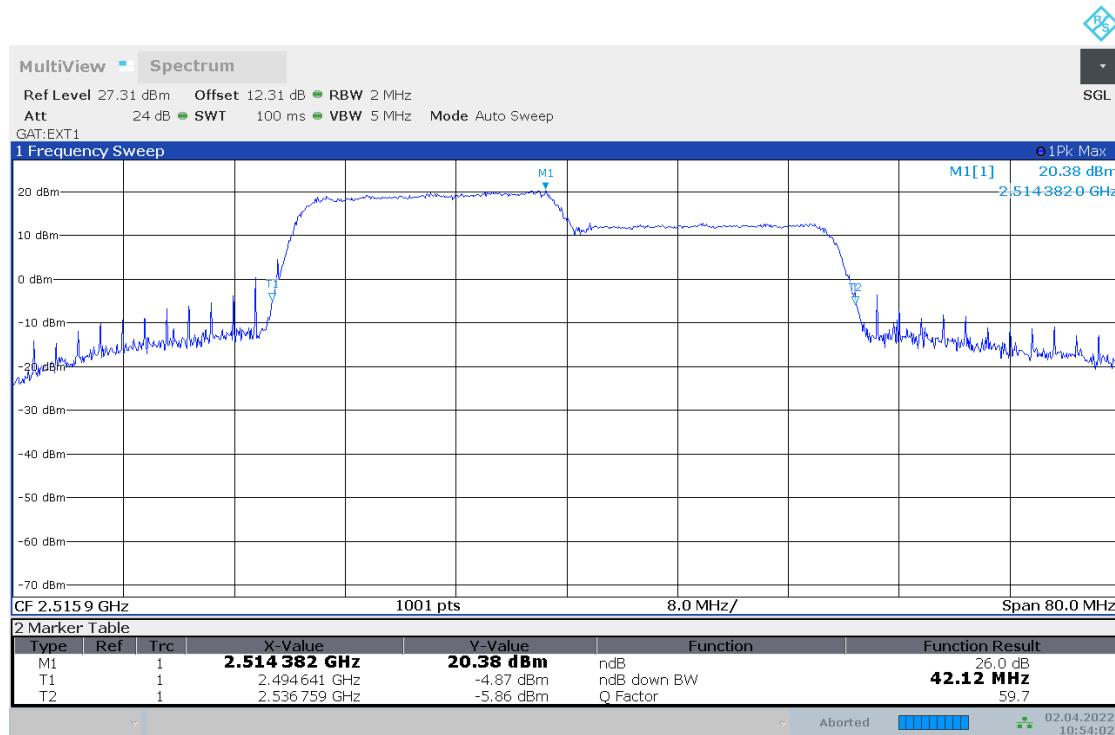
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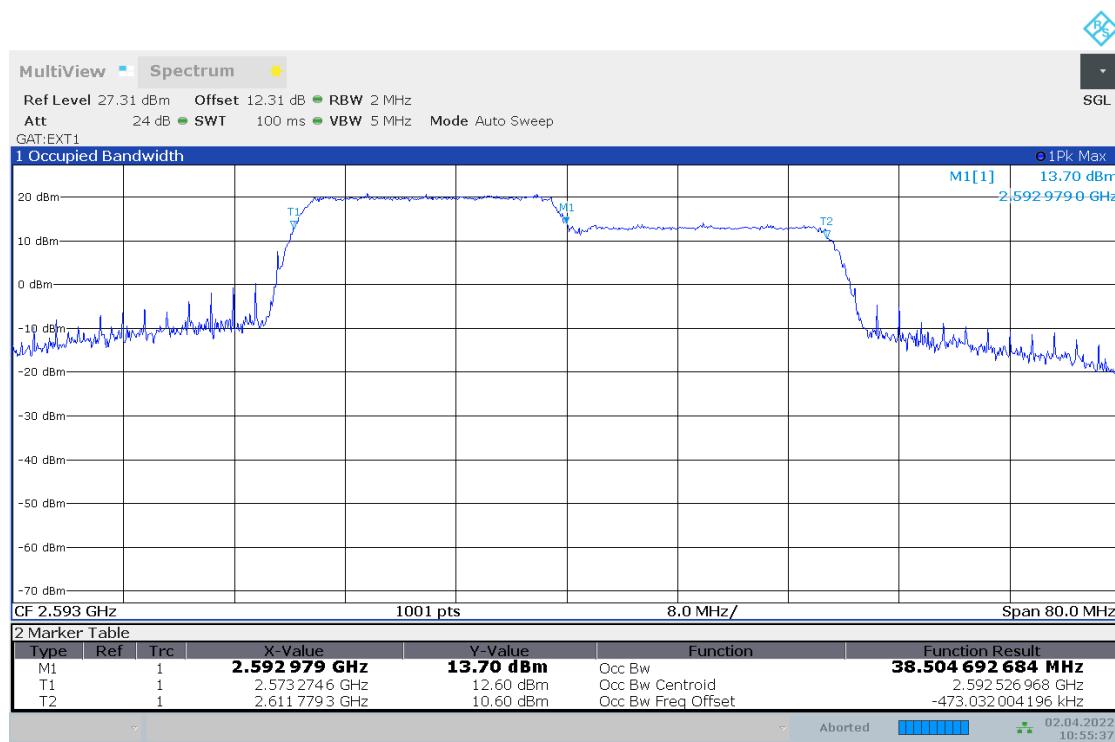
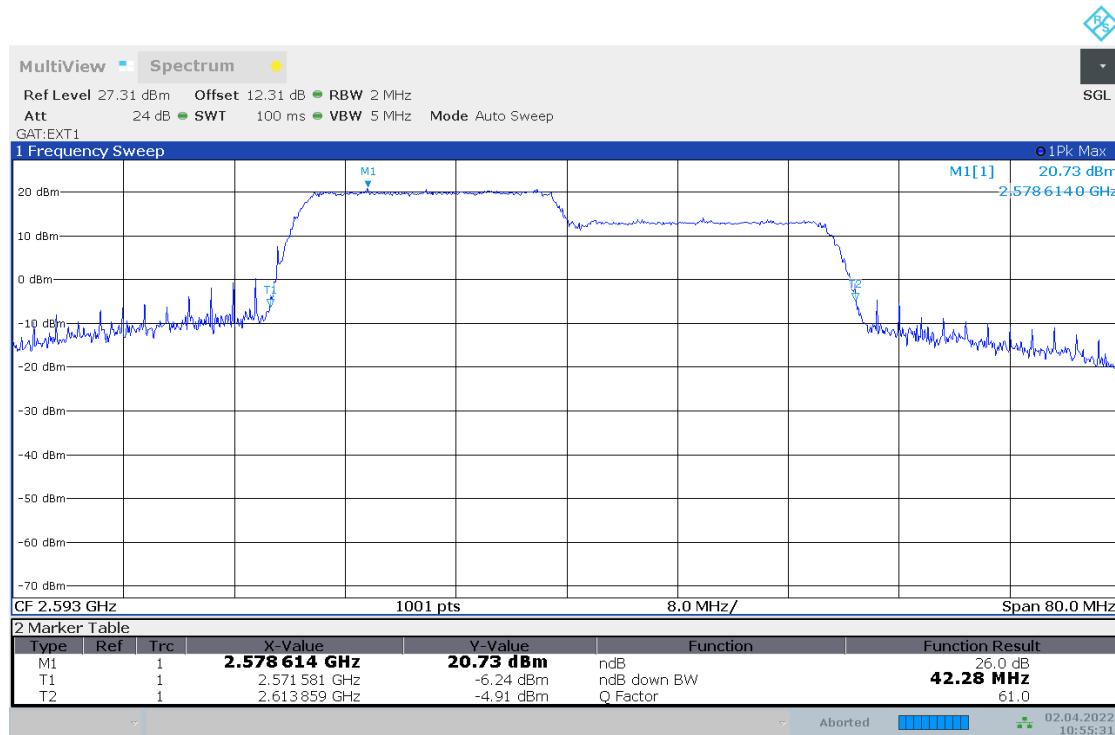
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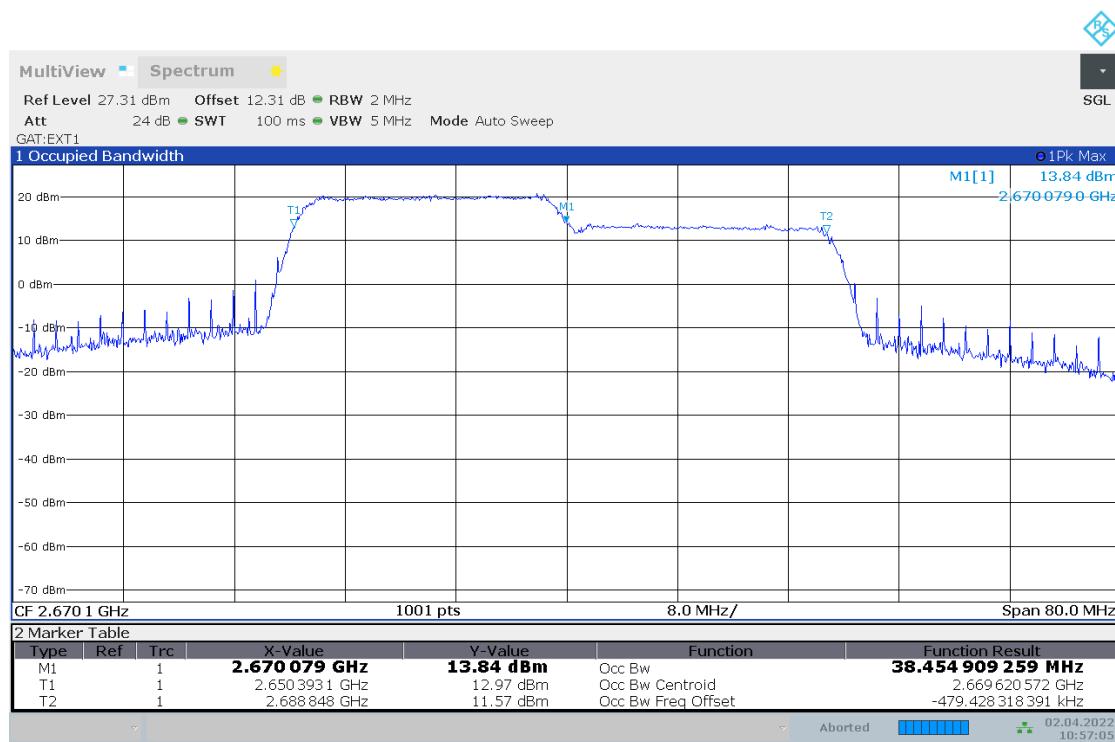
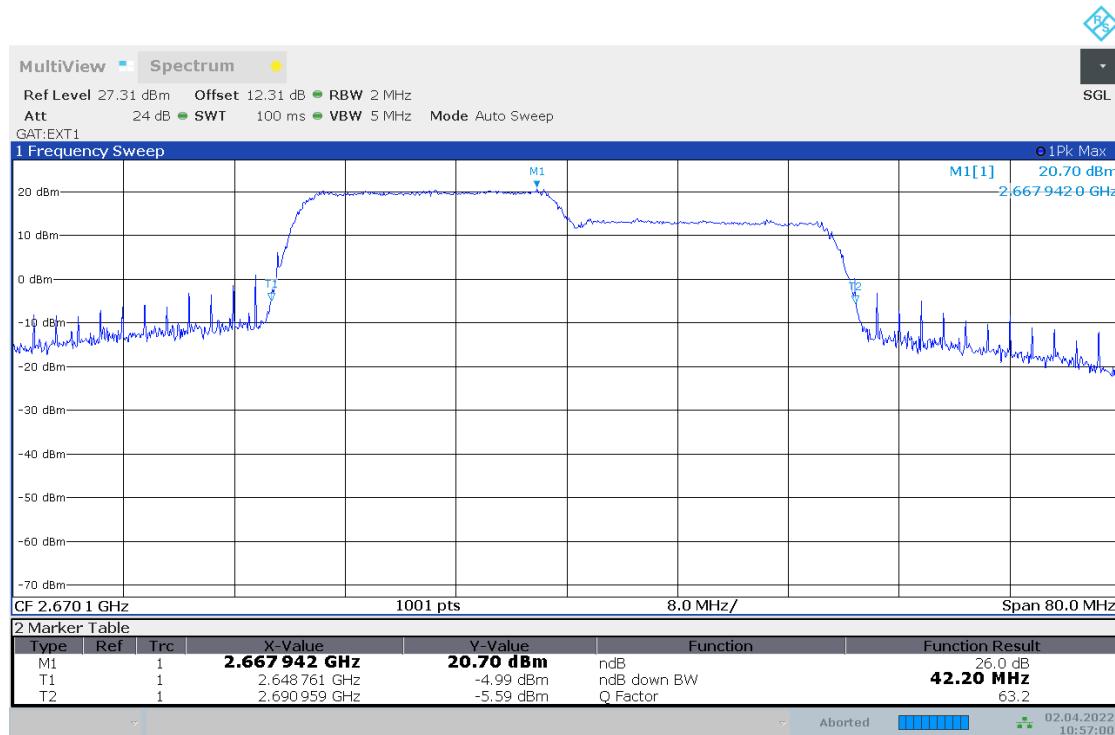
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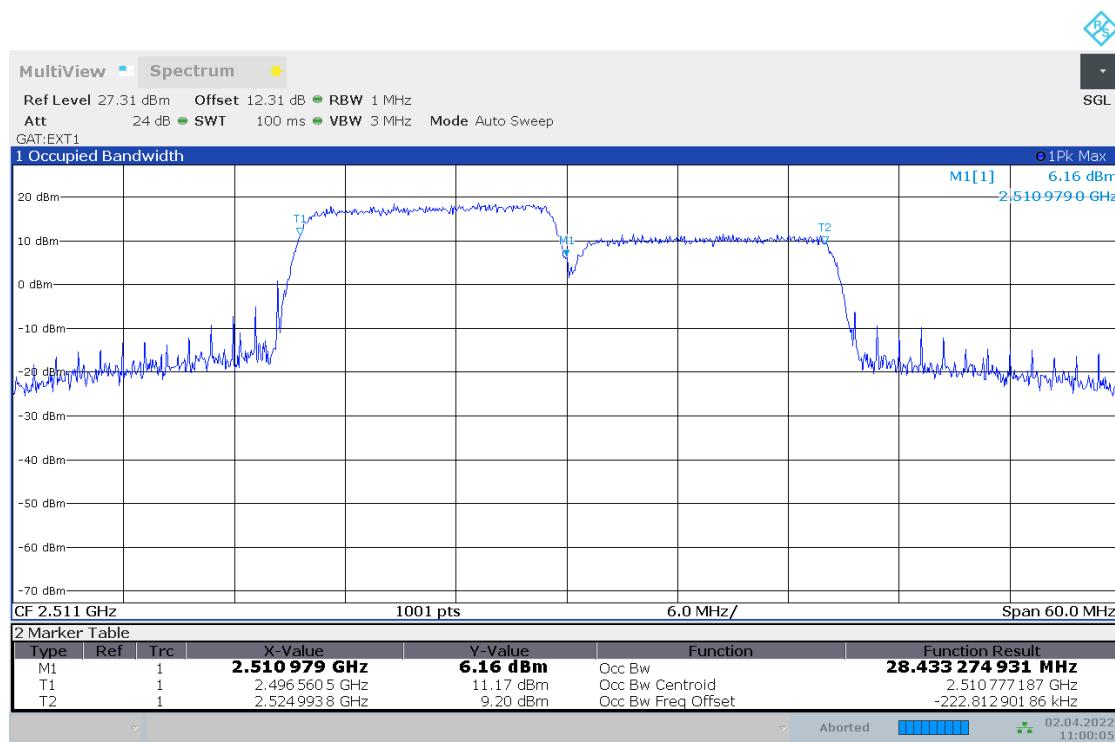
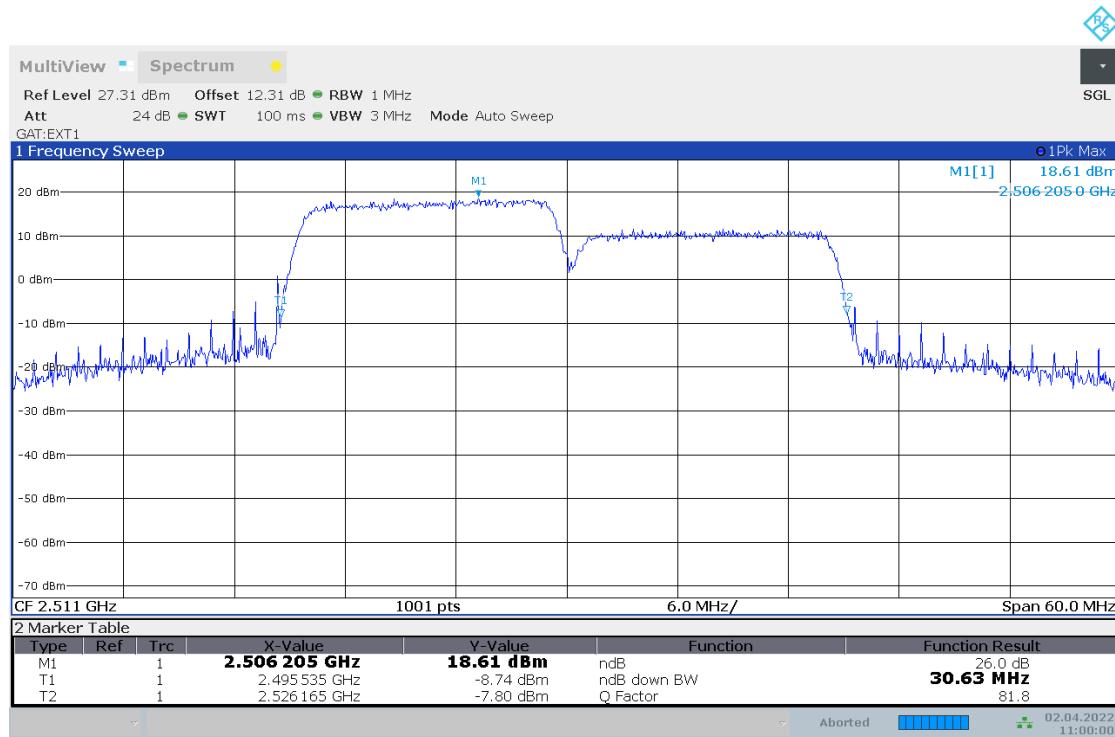
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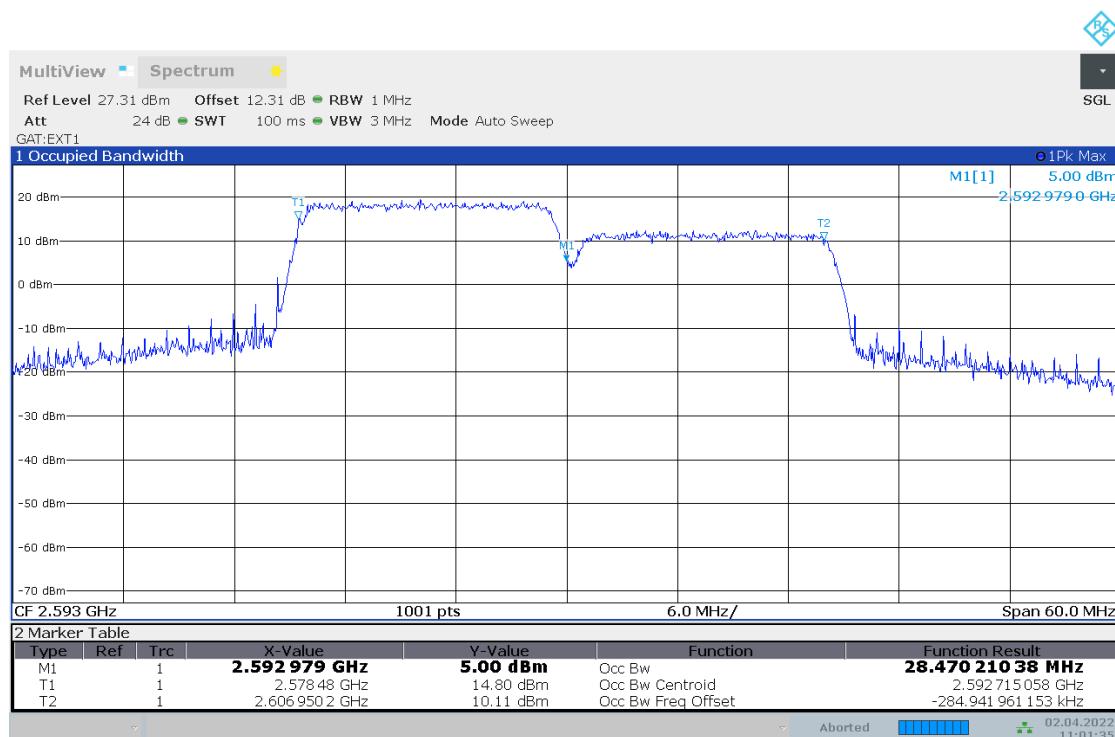
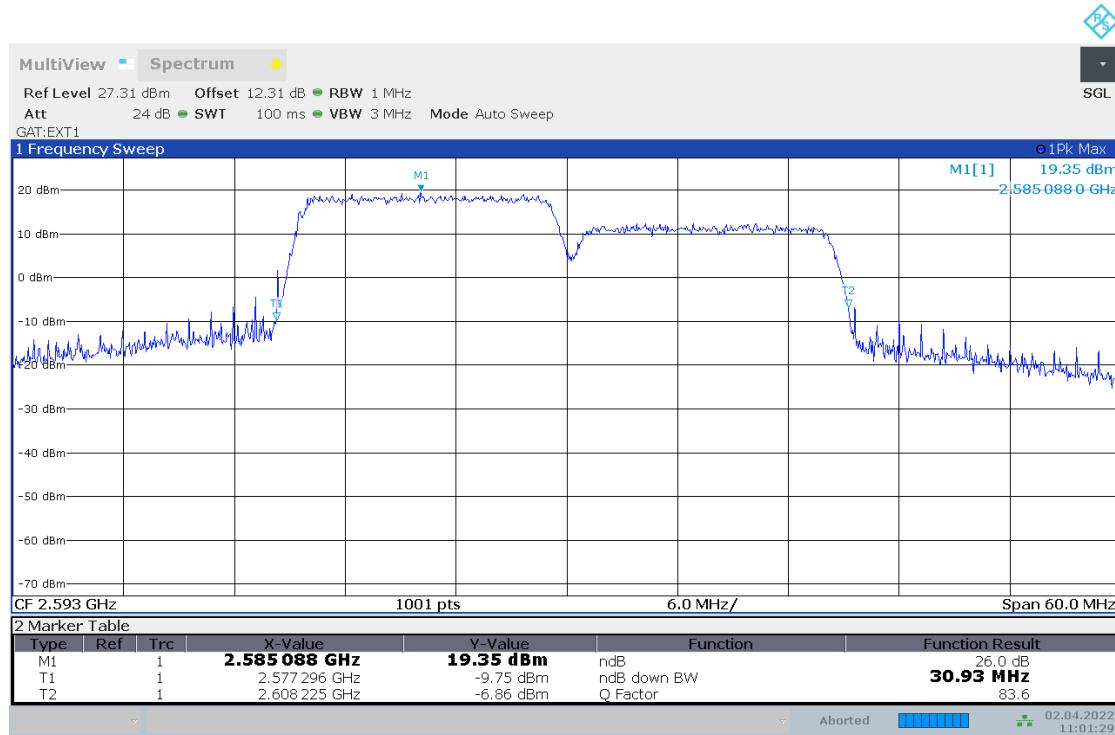
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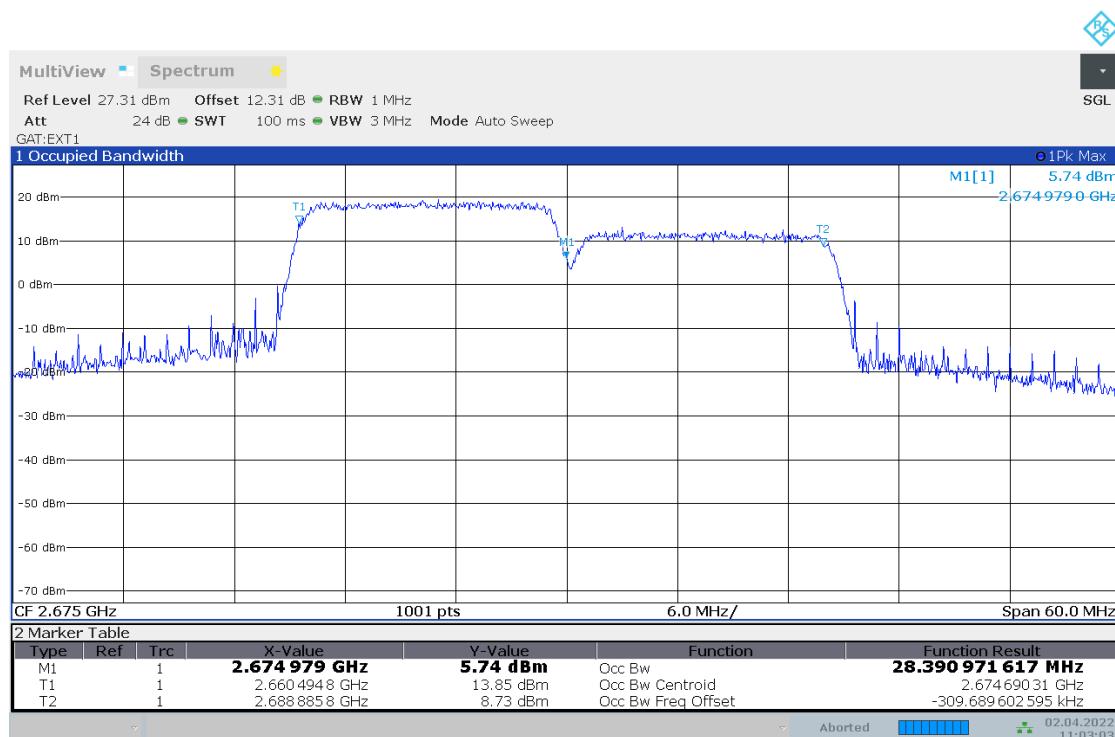
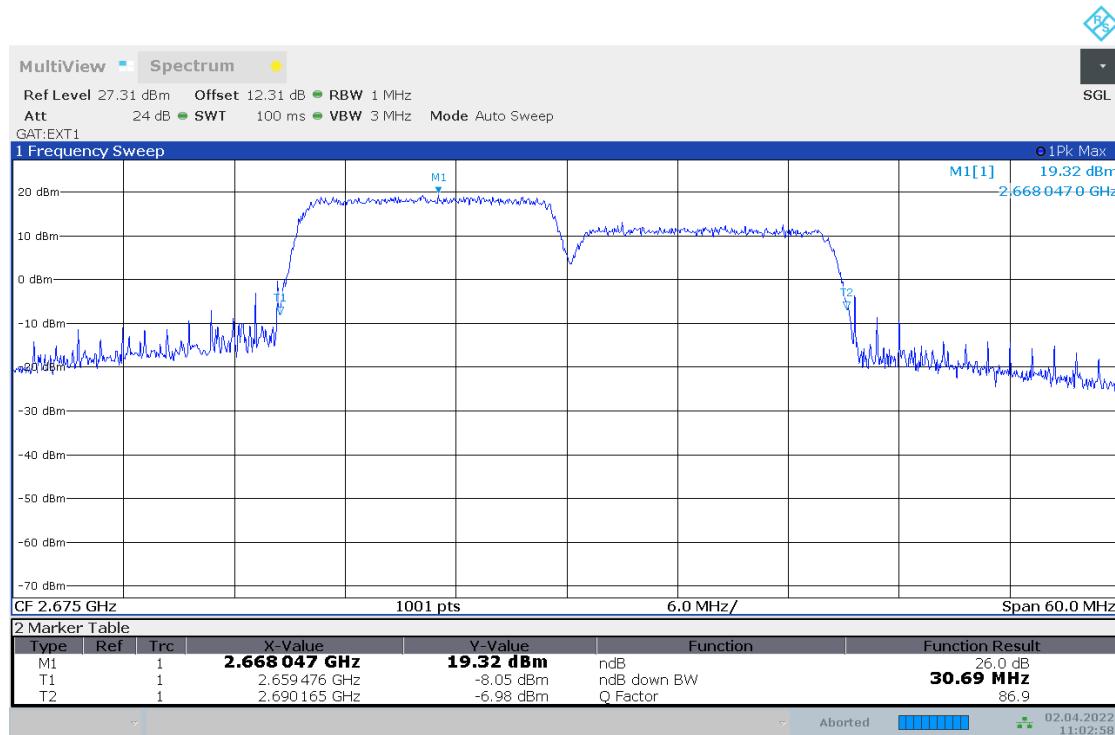
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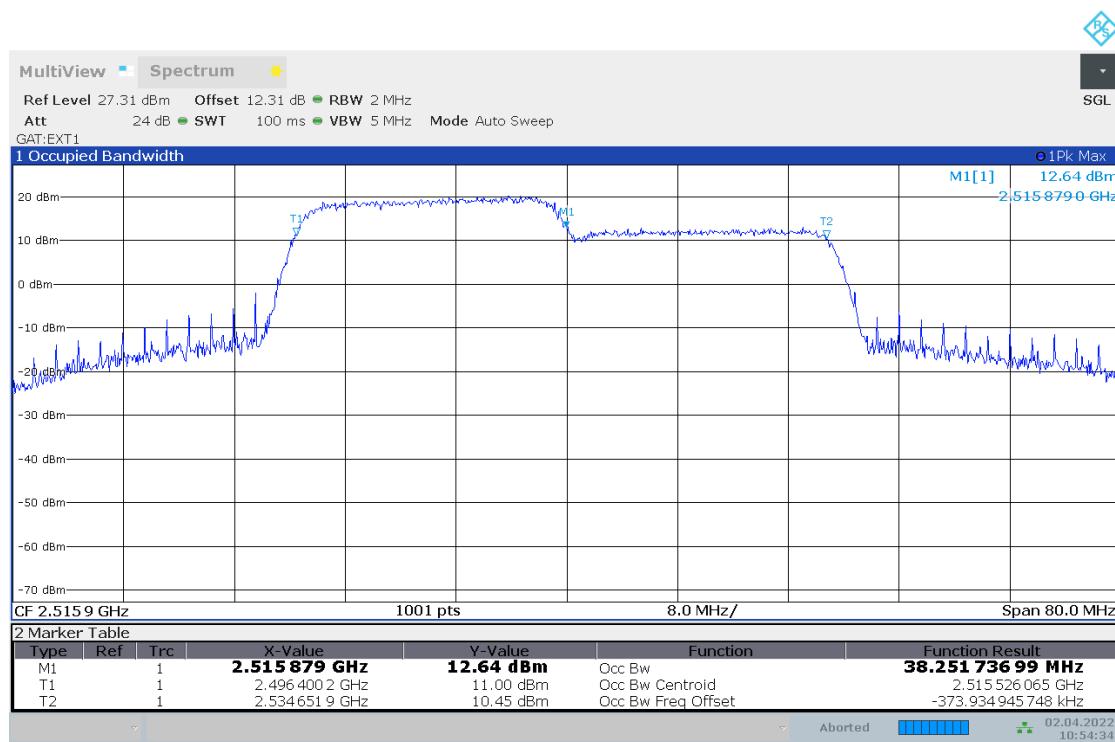
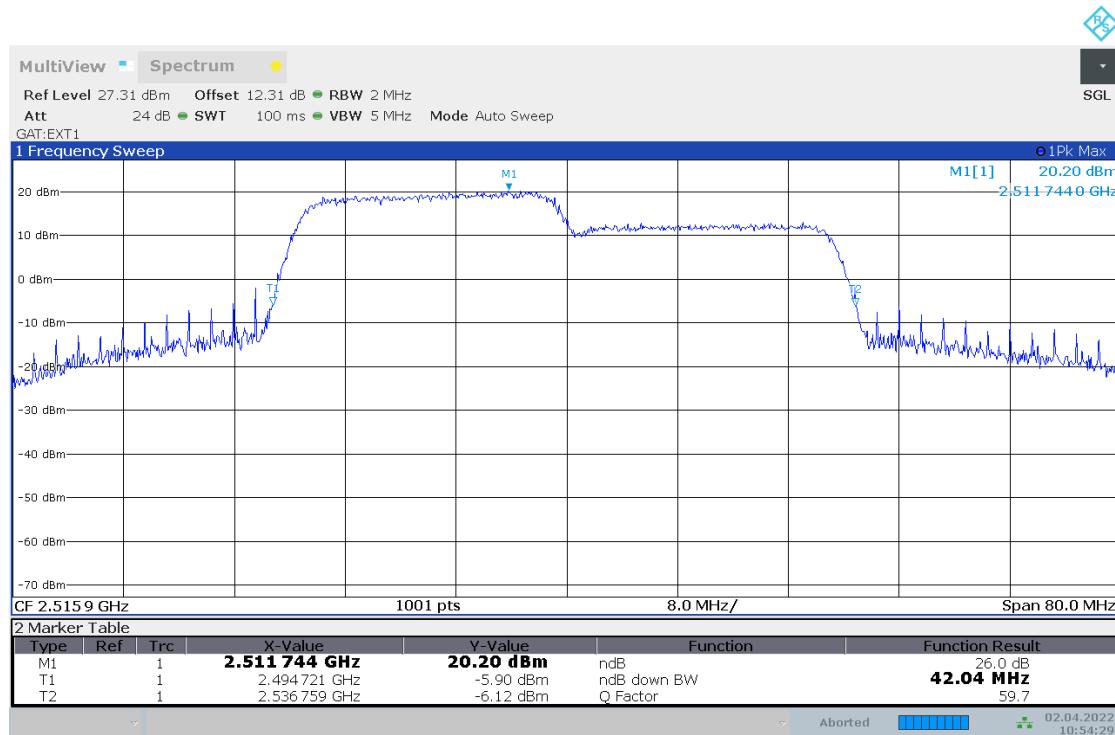
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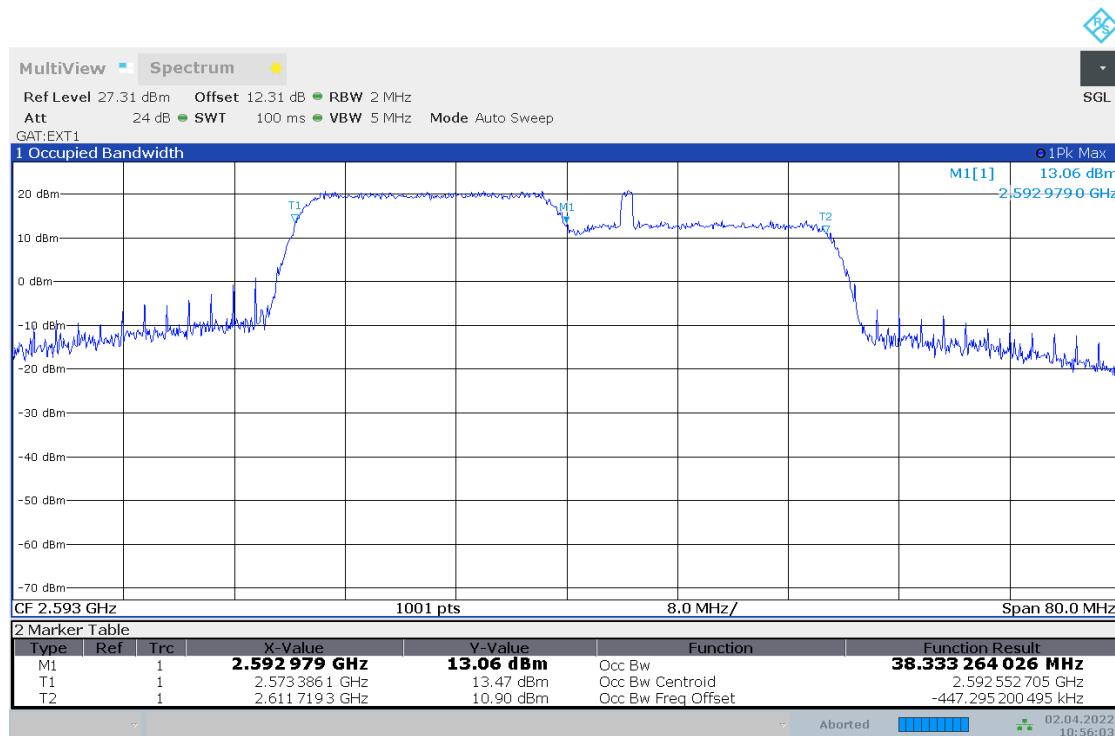
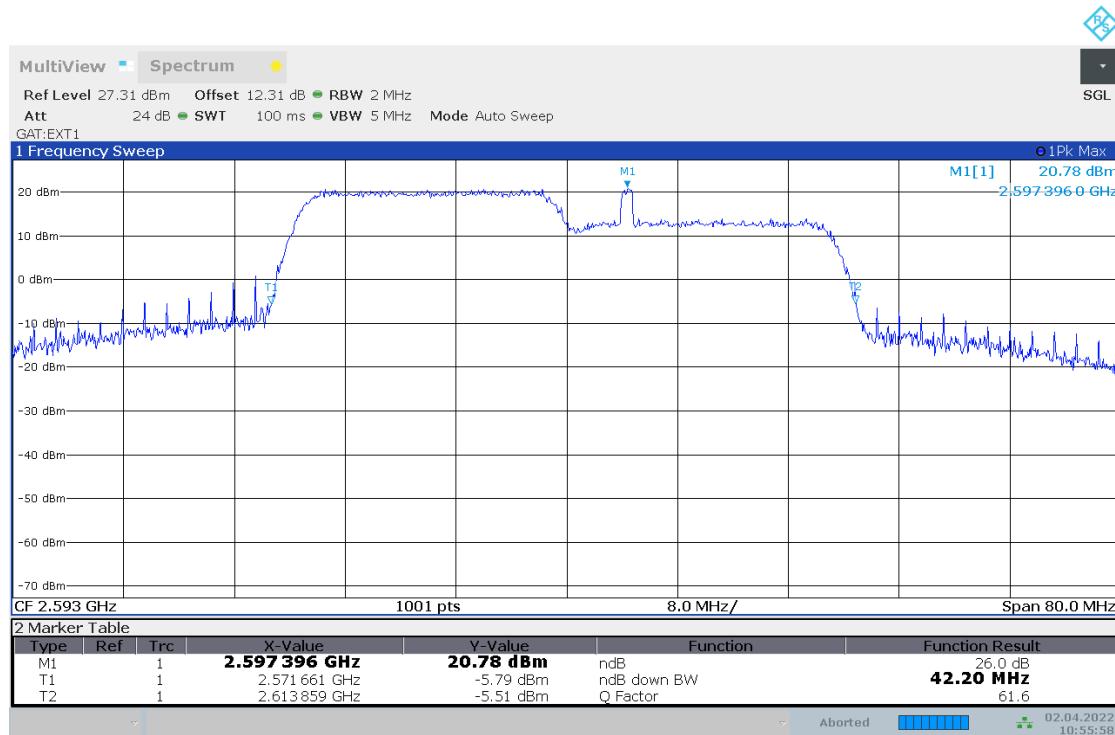
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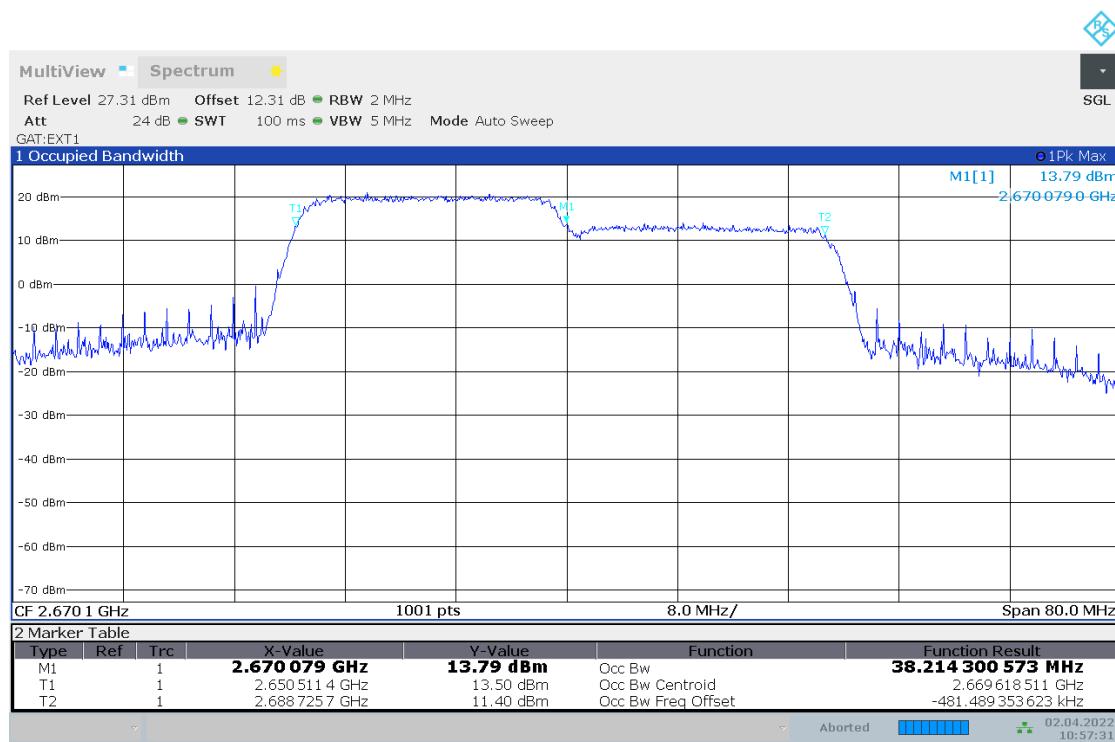
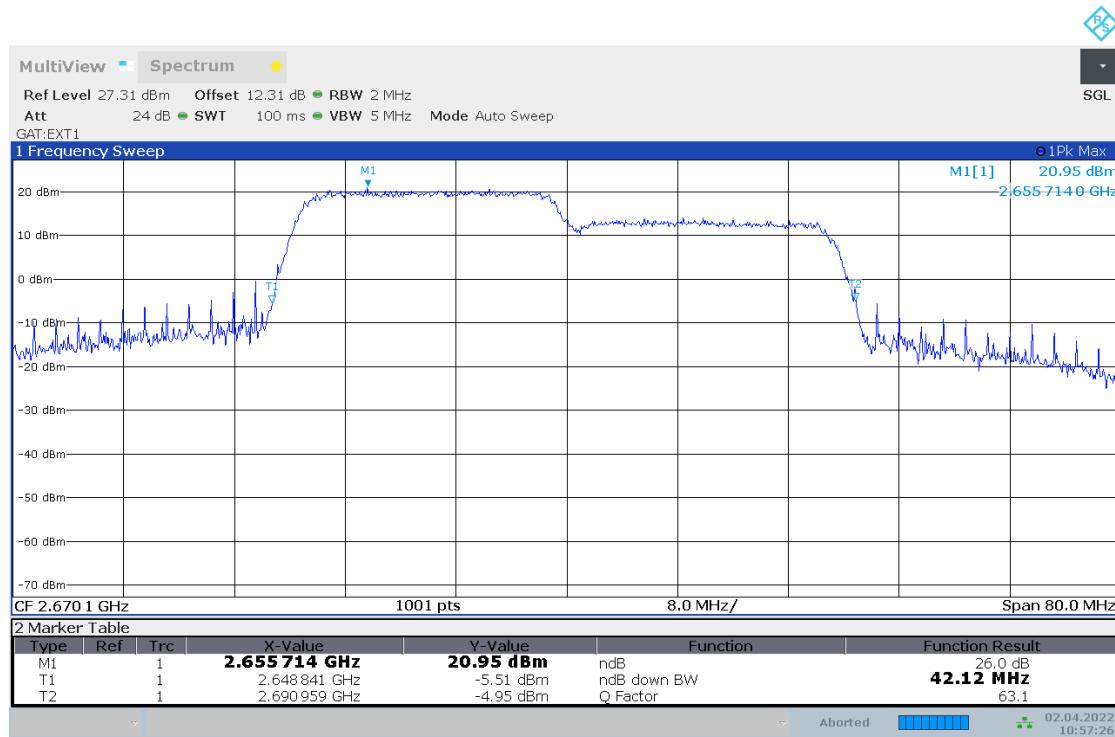
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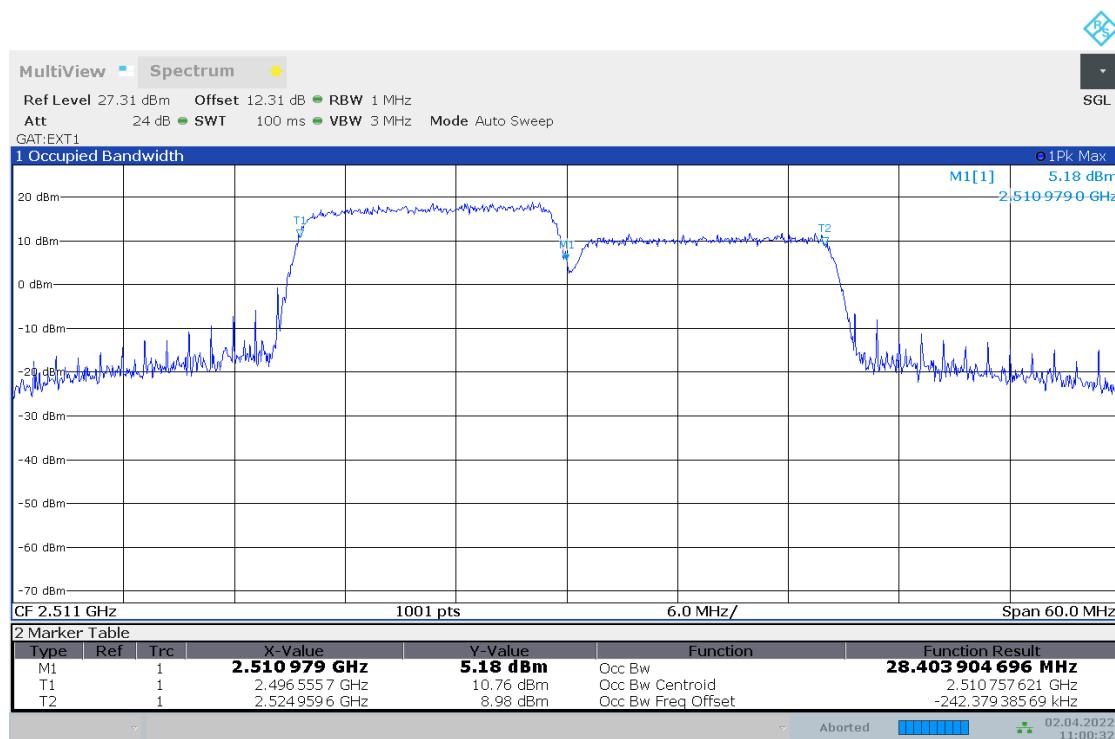
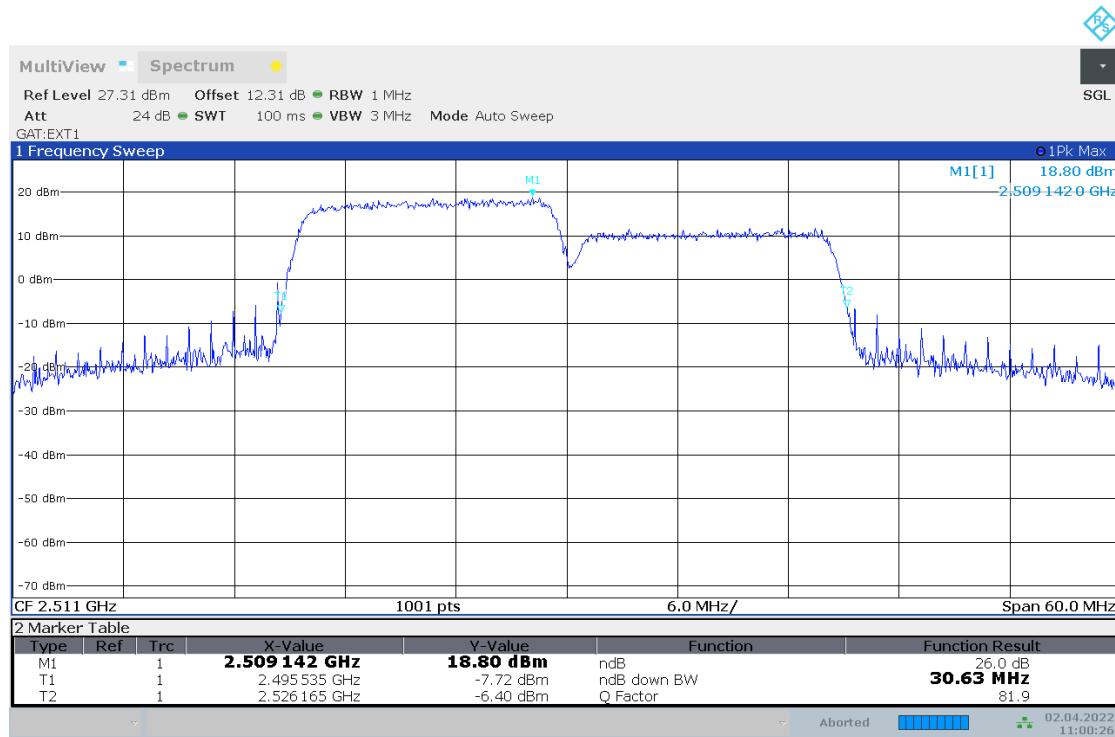
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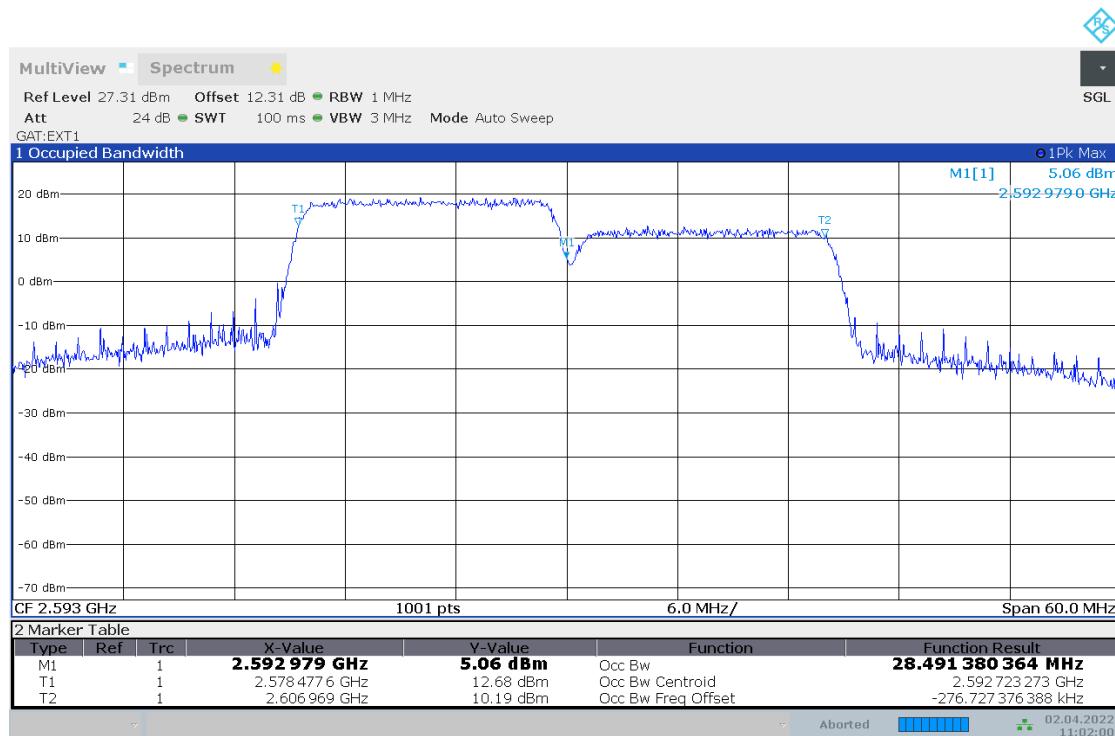
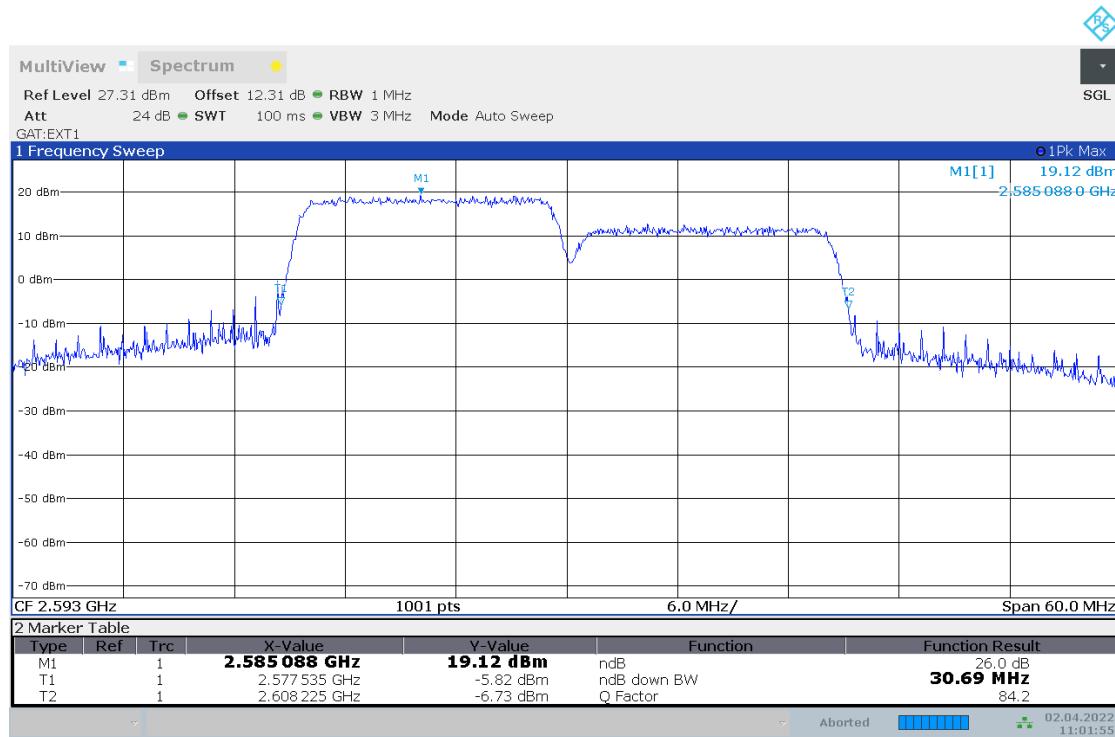
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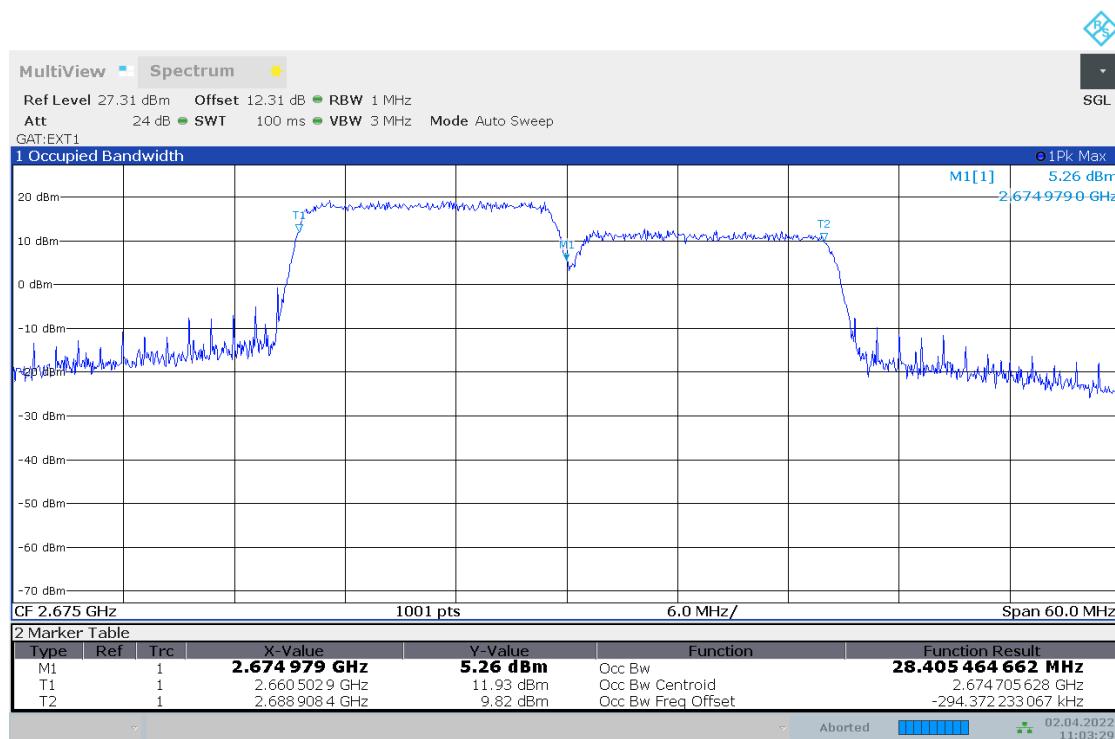
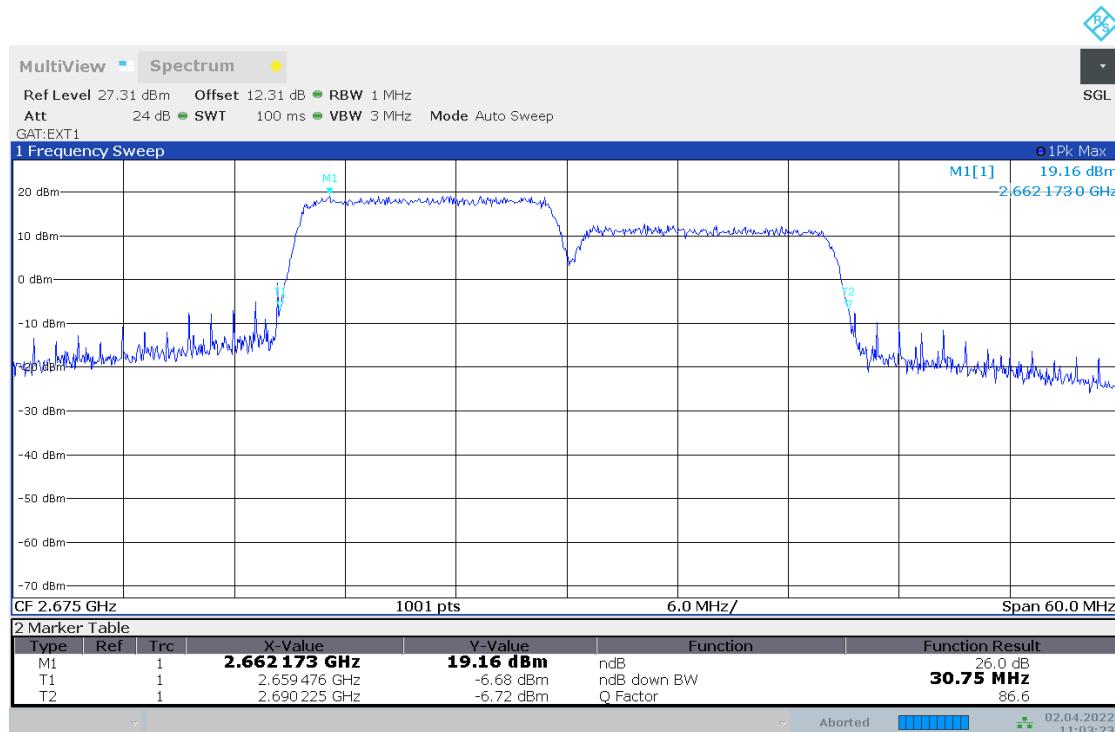
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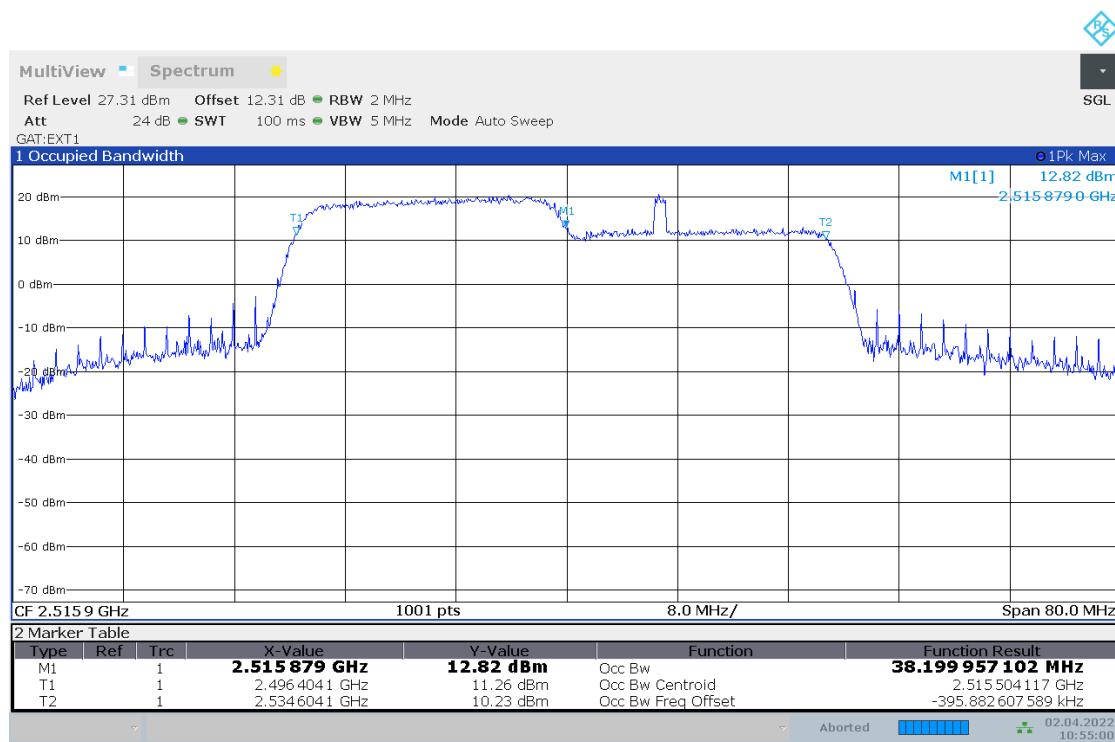
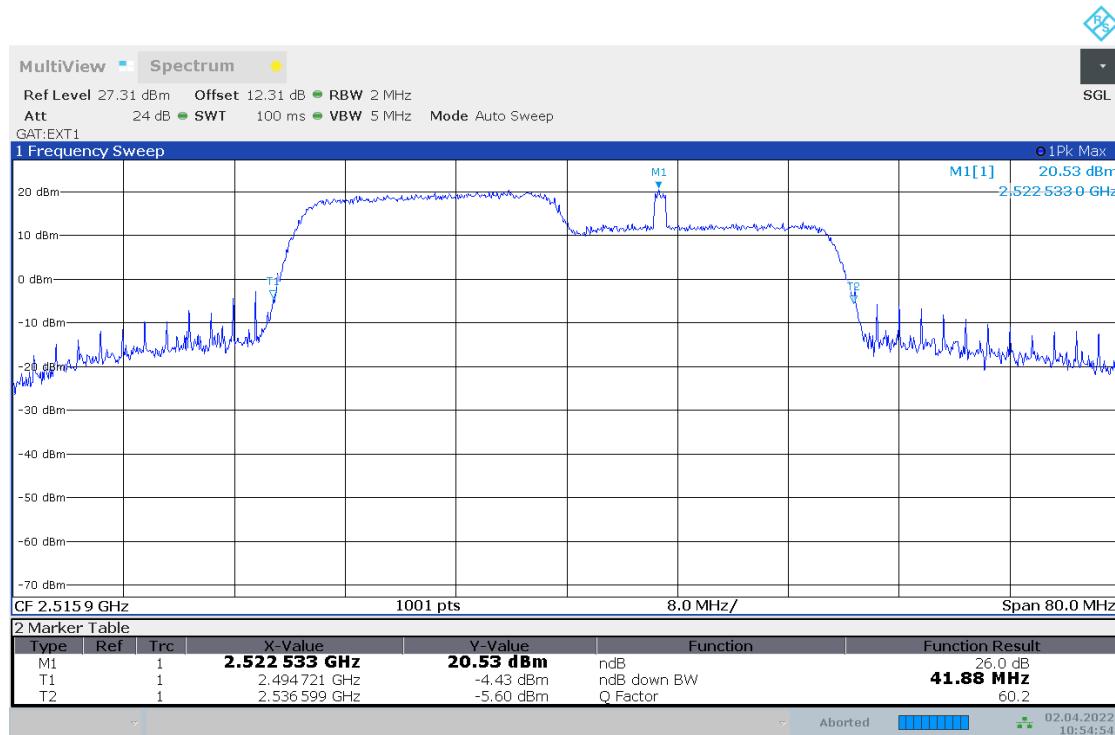
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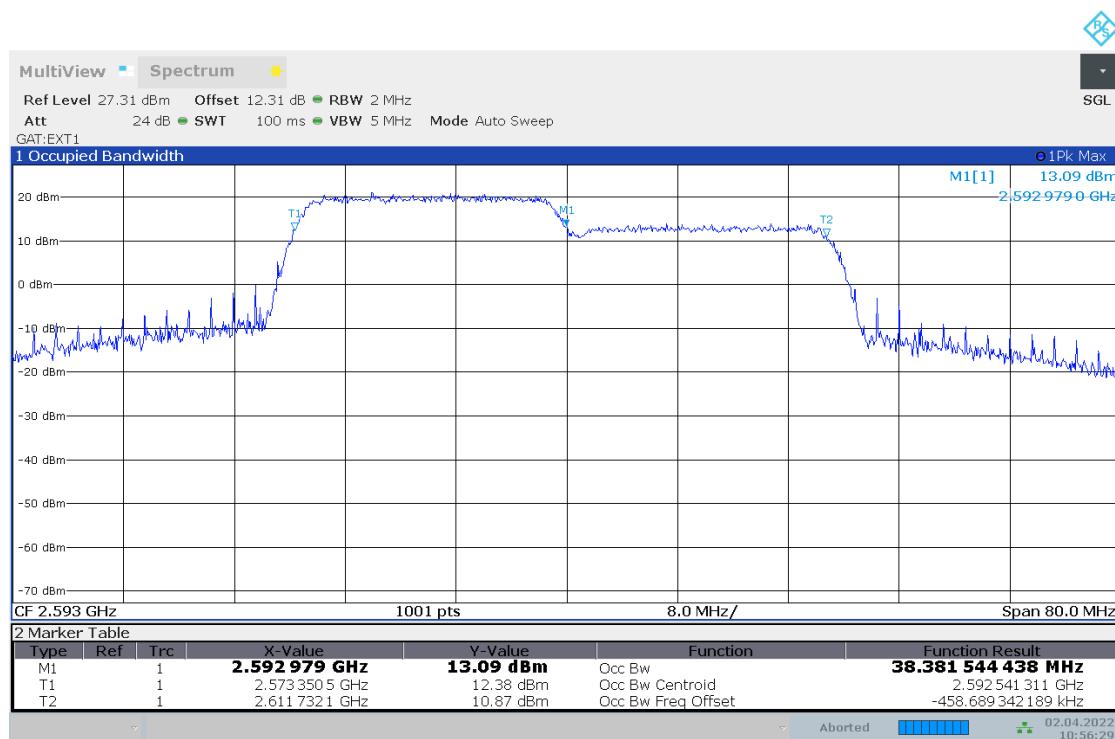
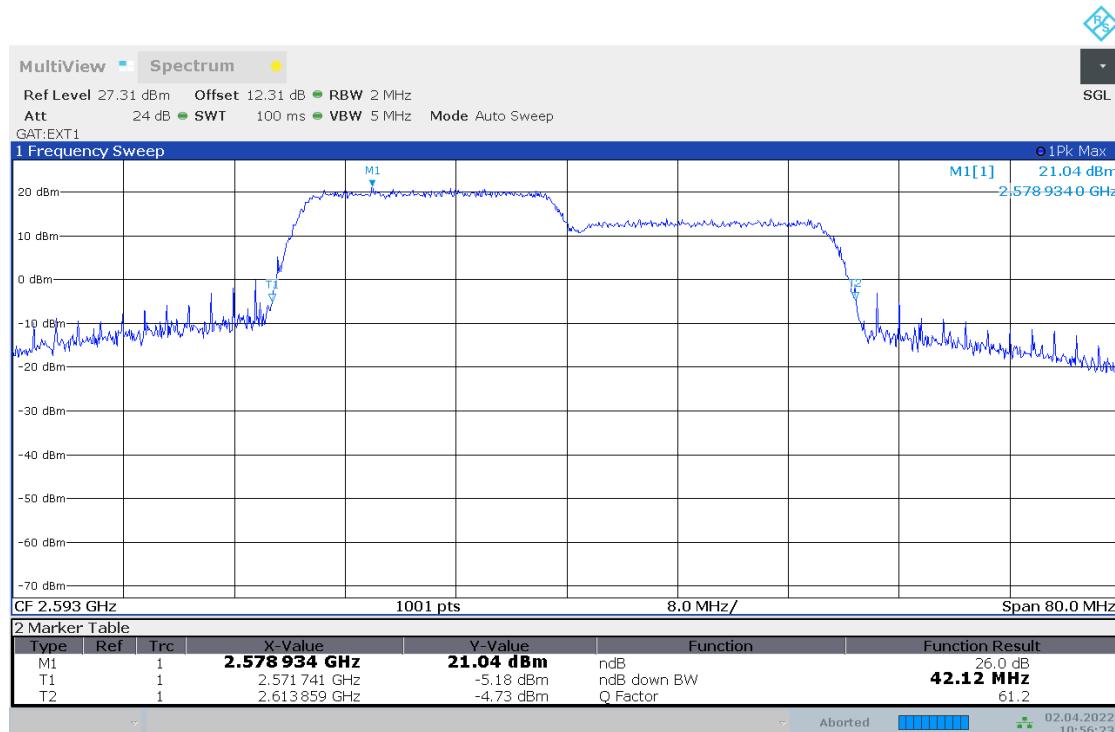
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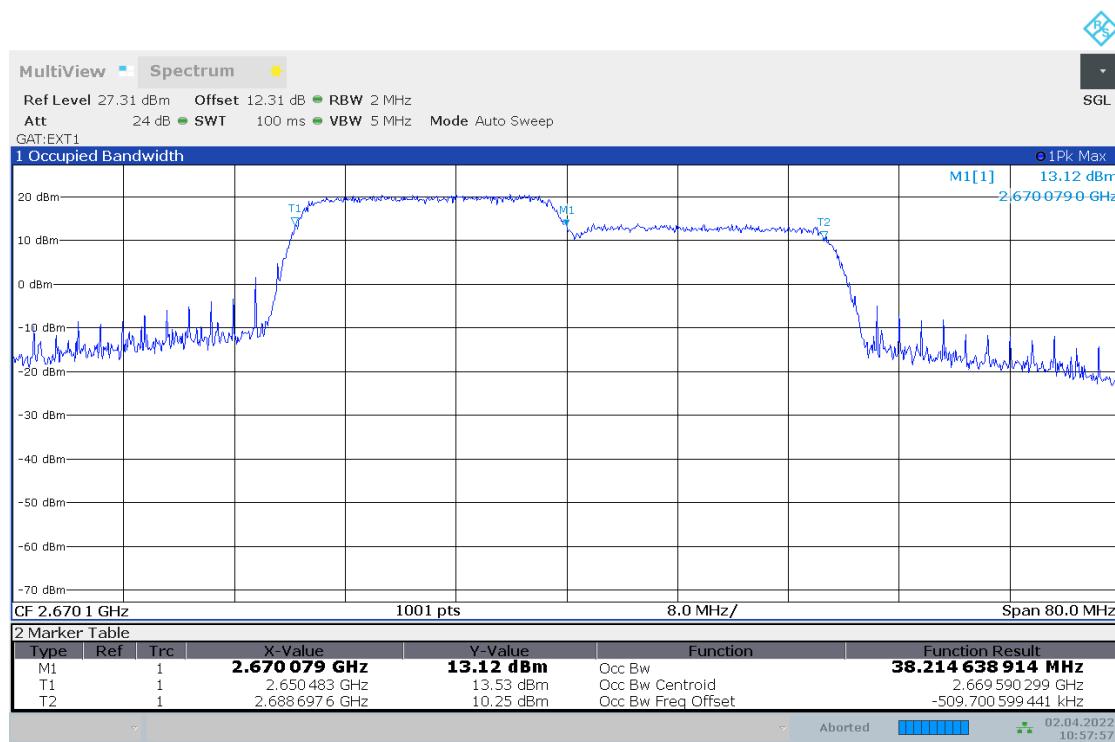
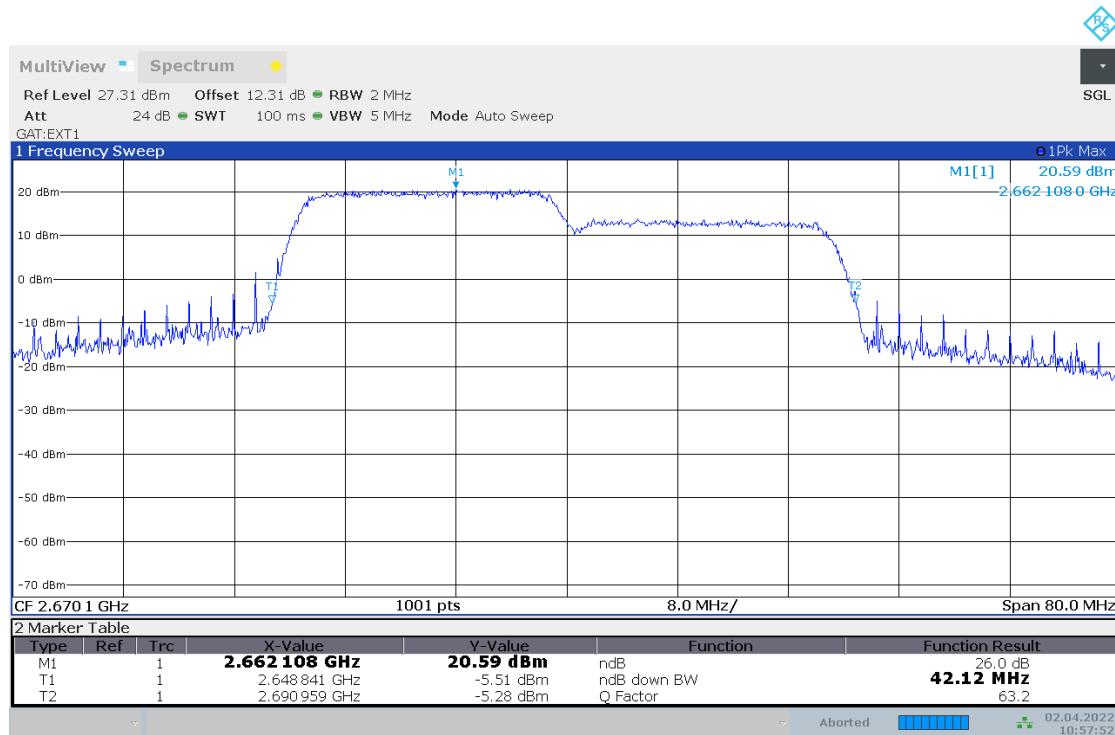
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2.2.17 TM3_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



2.2.18 TM3_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



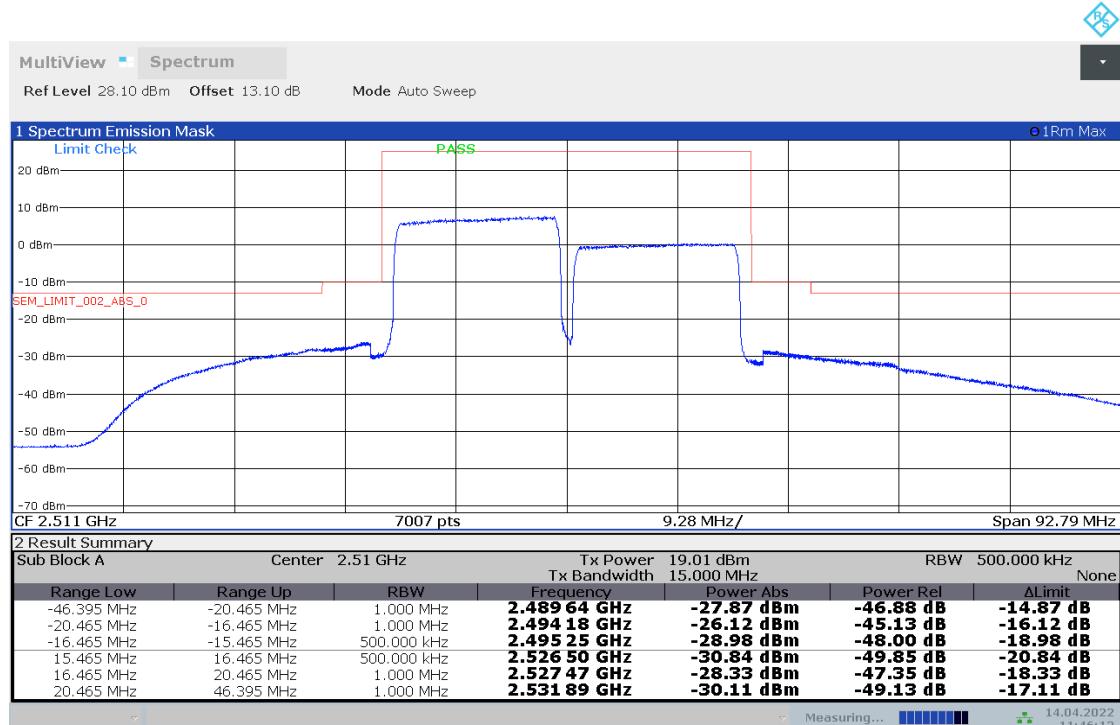
3 Appendix_C: Band Edges Compliance

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

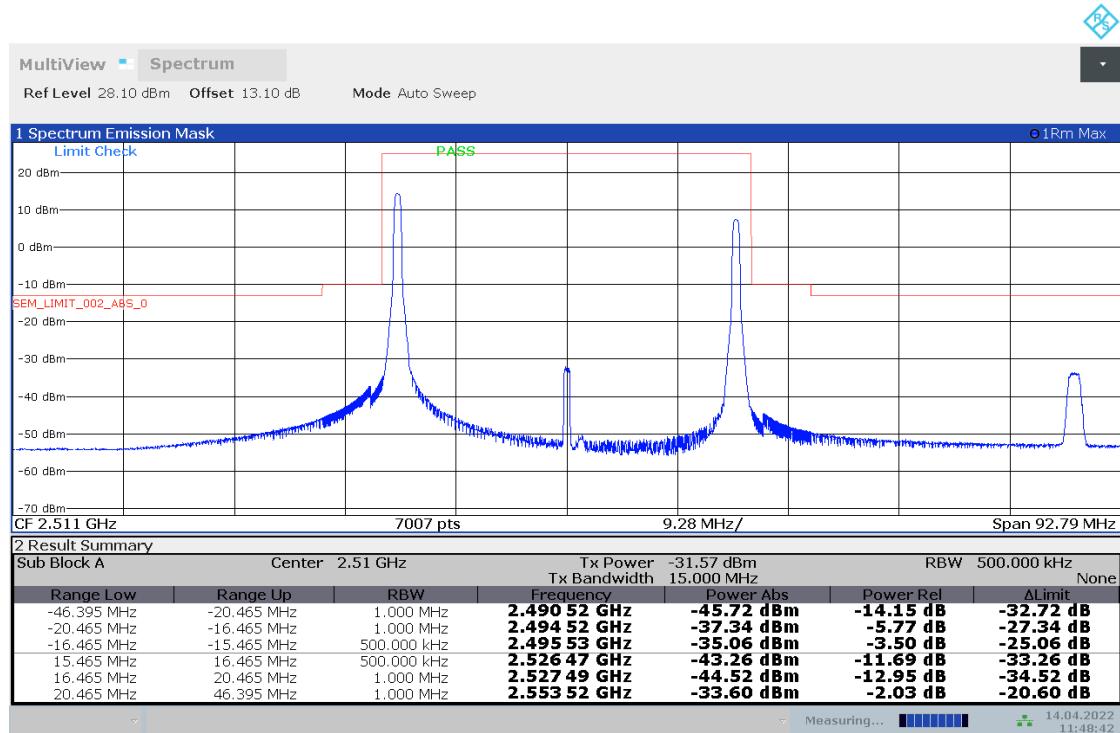


11:46:12 14.04.2022



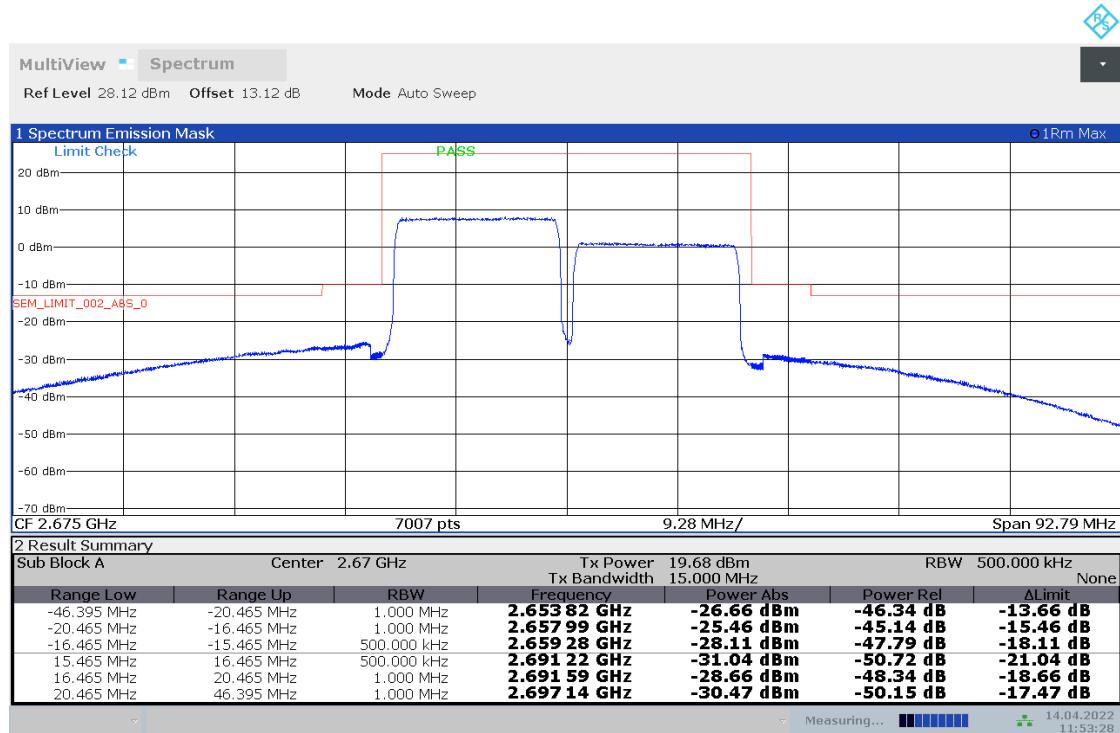
11:47:12 14.04.2022

3.2.2 TM1_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



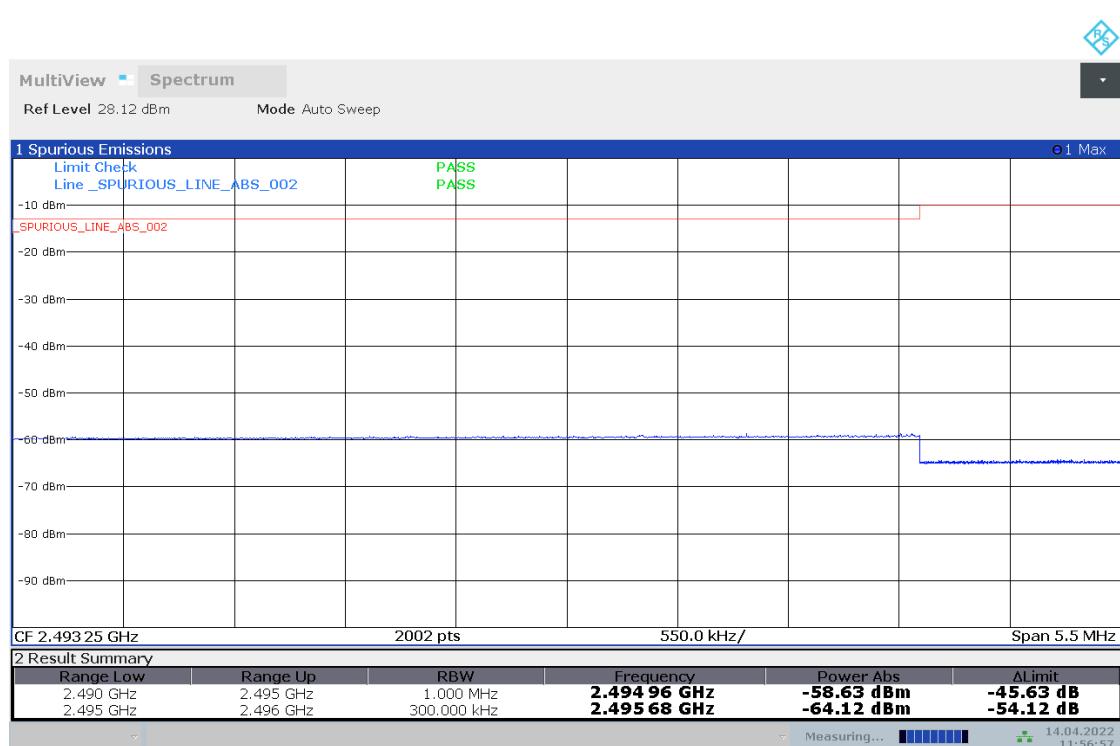
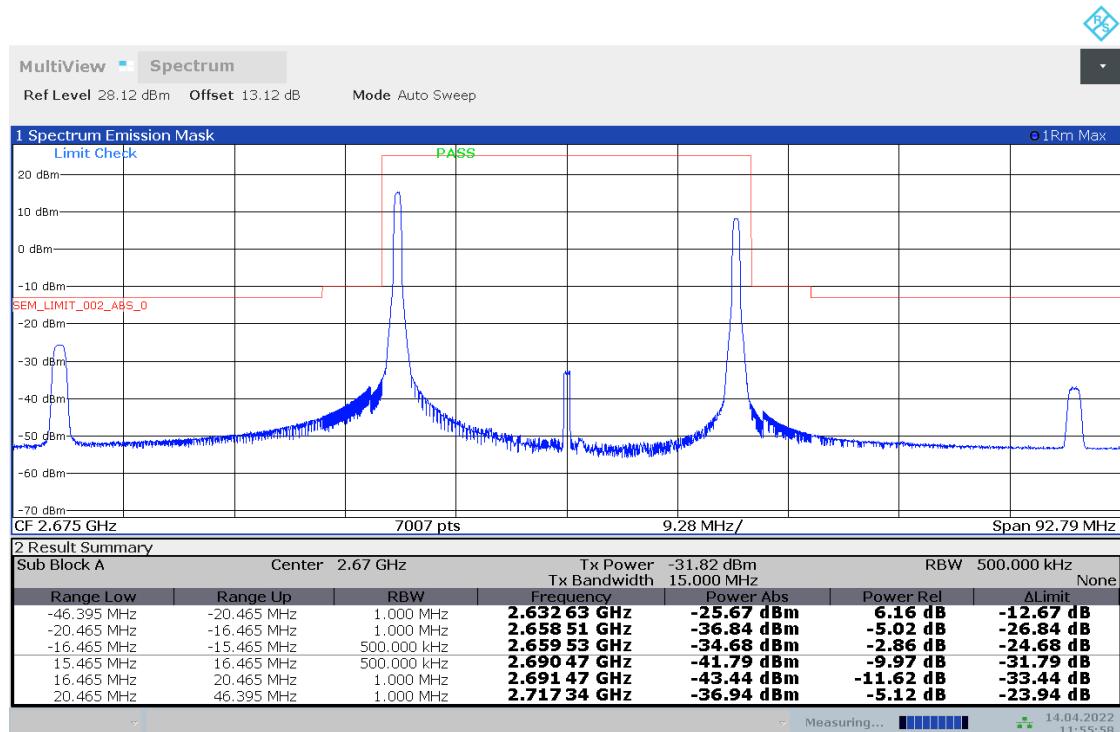
11:49:42 14.04.2022

3.2.3 TM1_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0



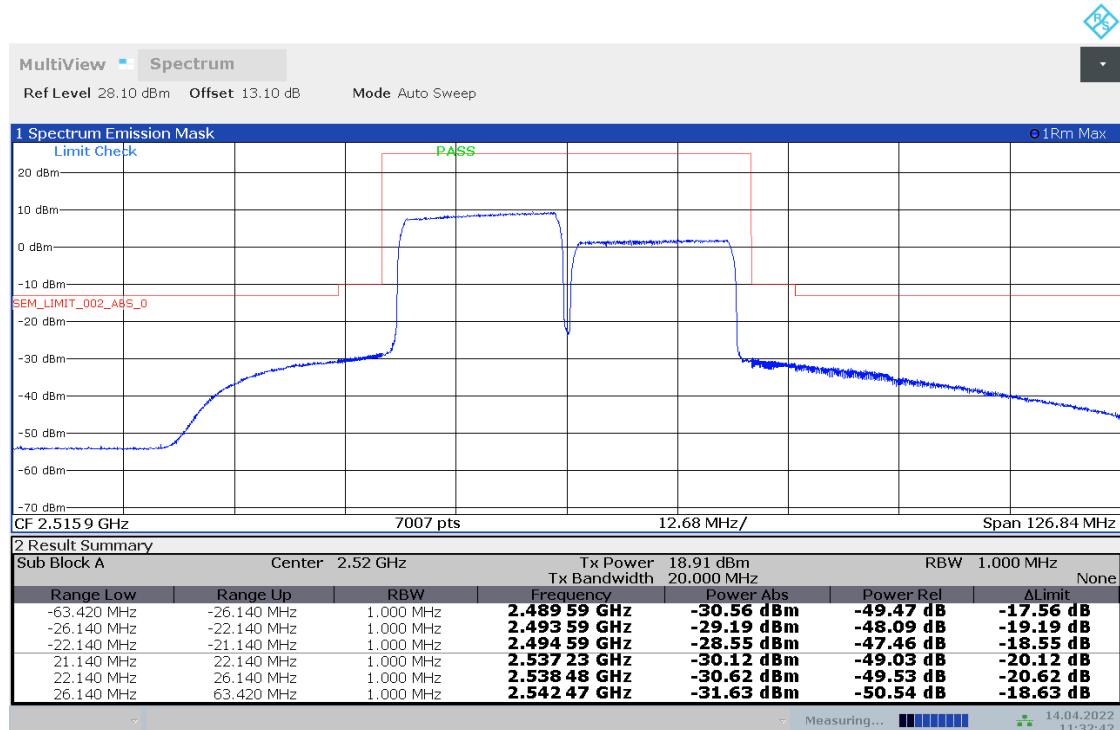
11:54:28 14.04.2022

3.2.4 TM1_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



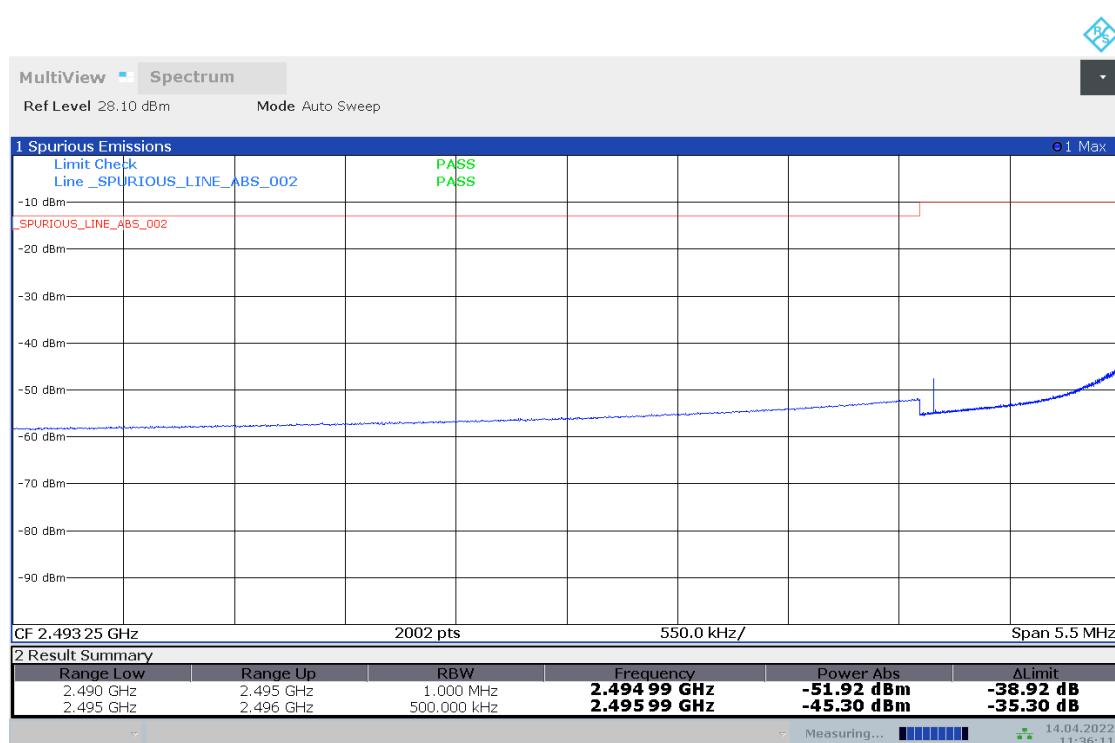
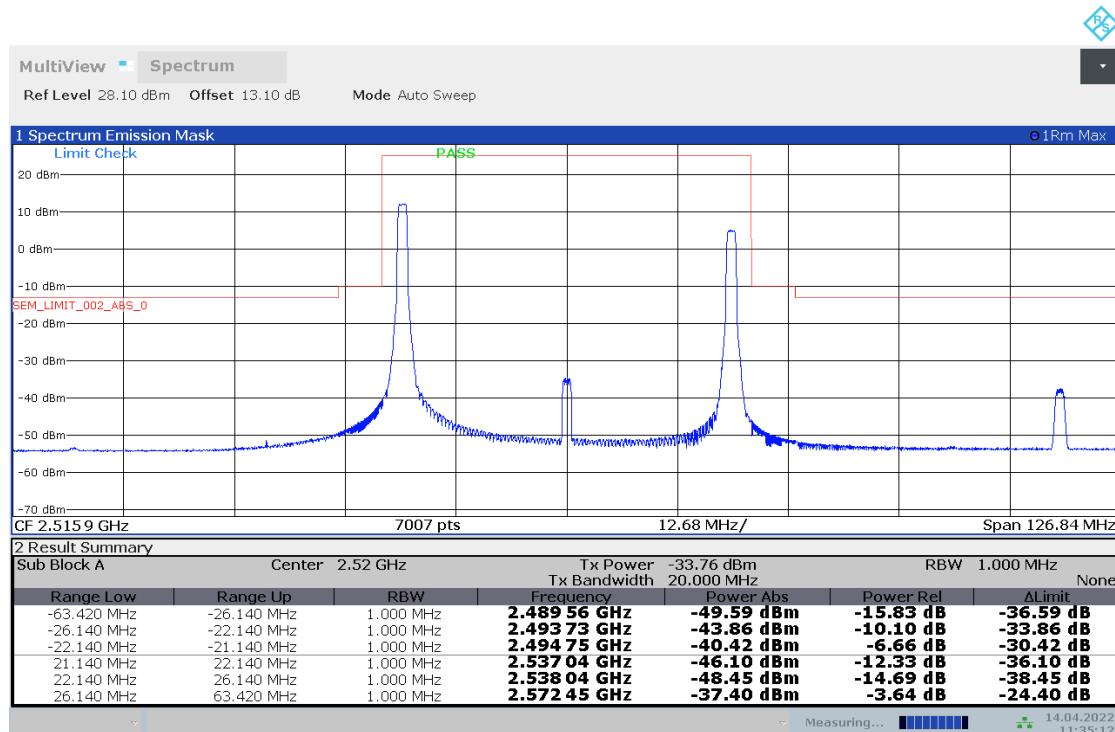
11:56:58 14.04.2022

3.2.5 TM1_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



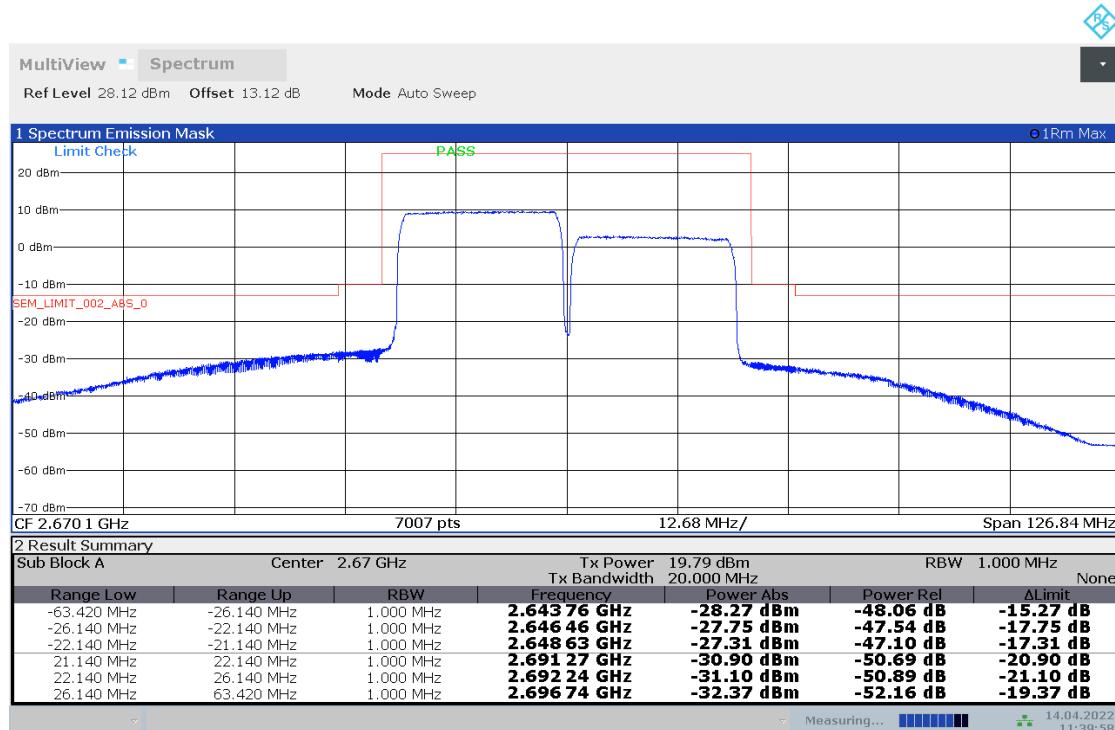
11:33:42 14.04.2022

3.2.6 TM1_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



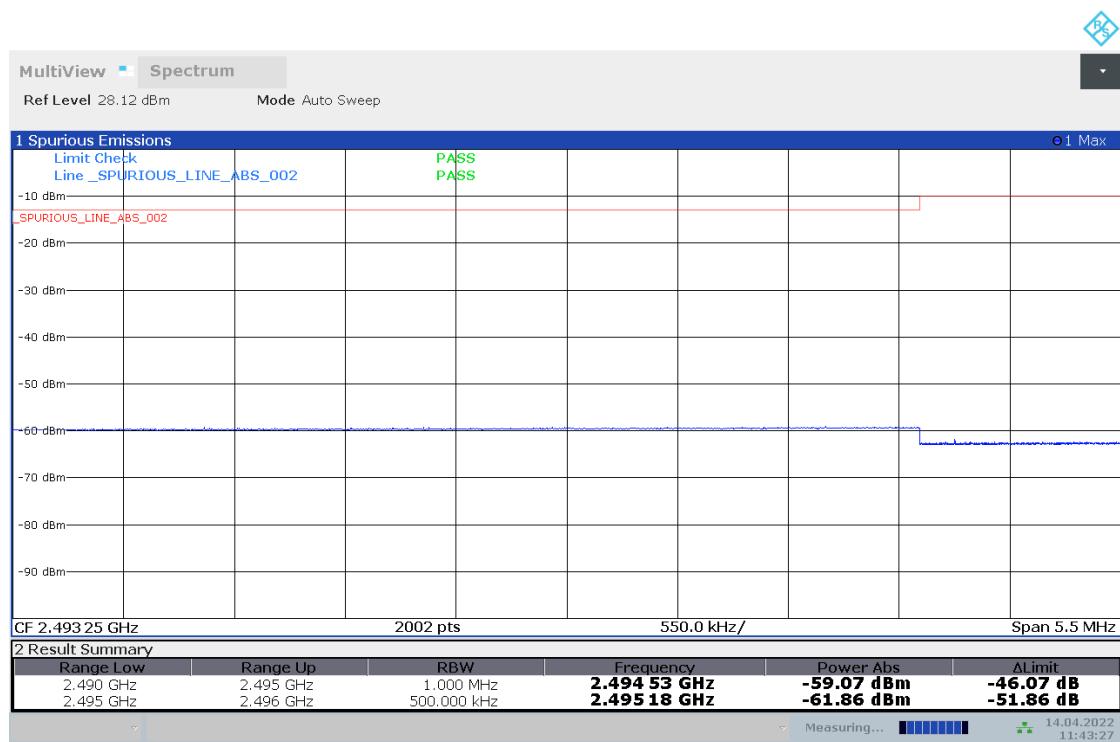
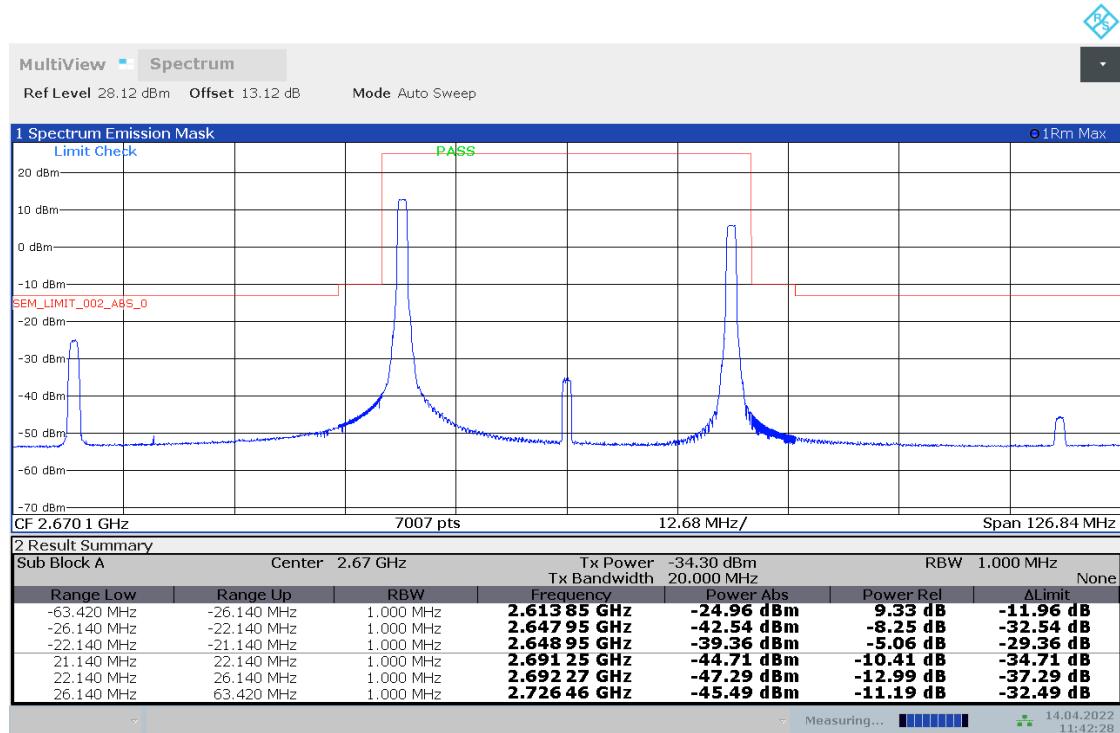
11:36:12 14.04.2022

3.2.7 TM1_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0

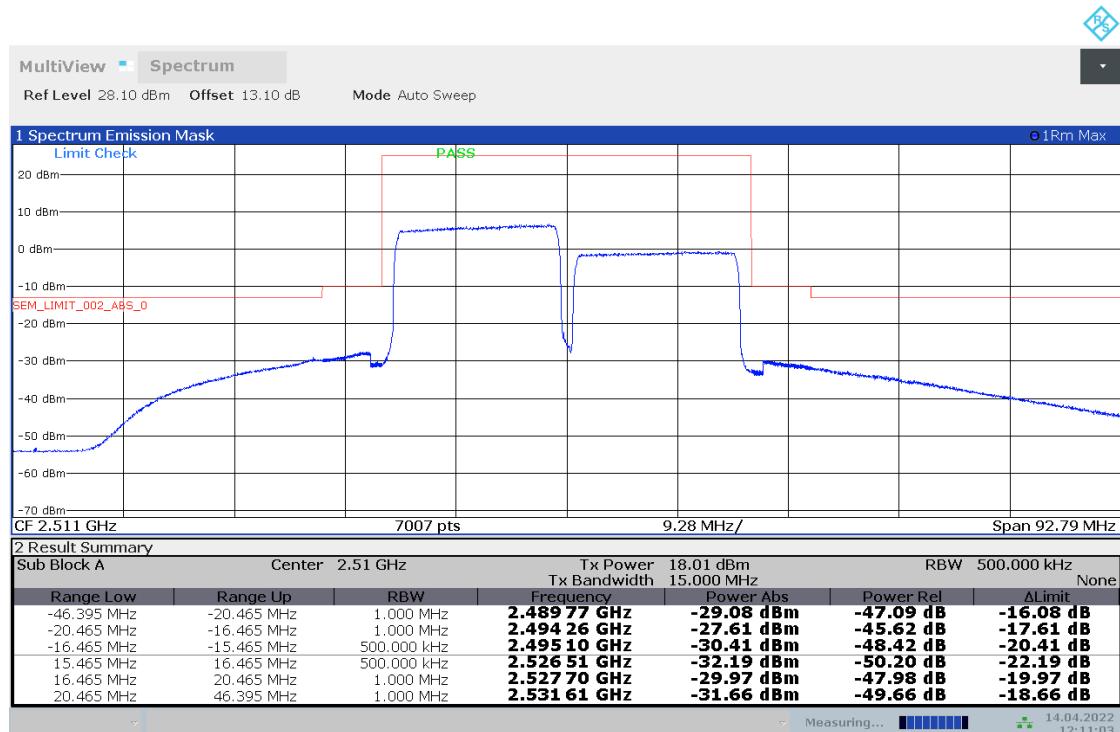


11:40:58 14.04.2022

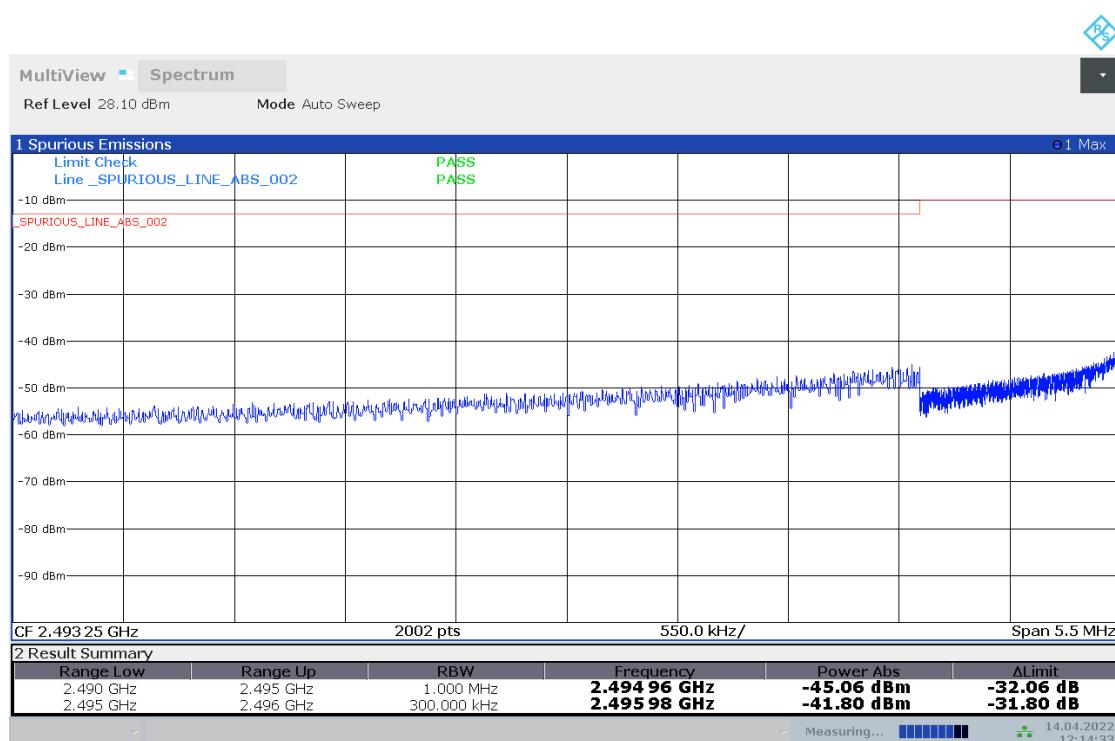
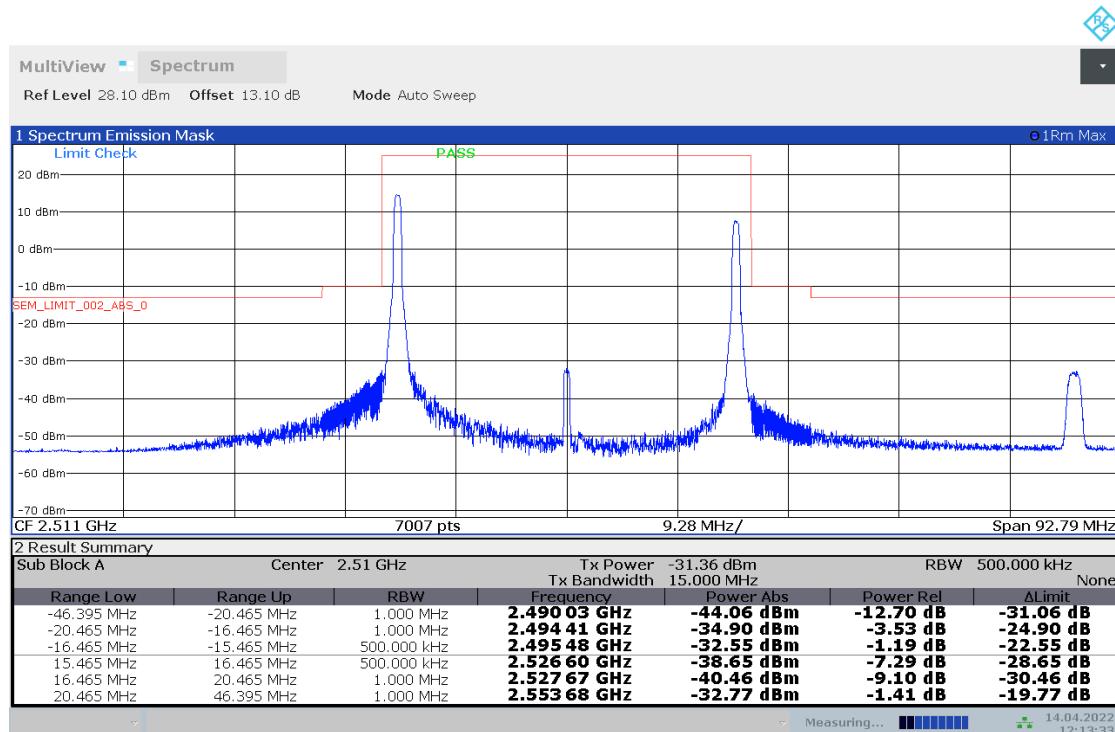
3.2.8 TM1_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



3.2.9 TM2_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0

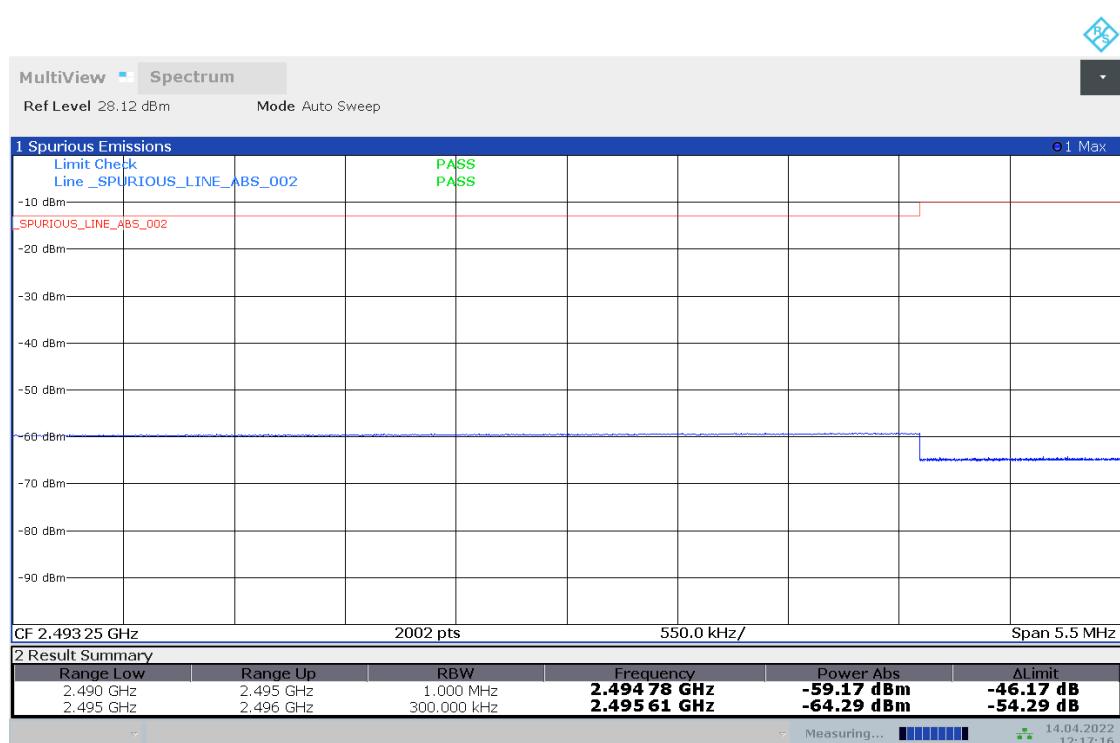
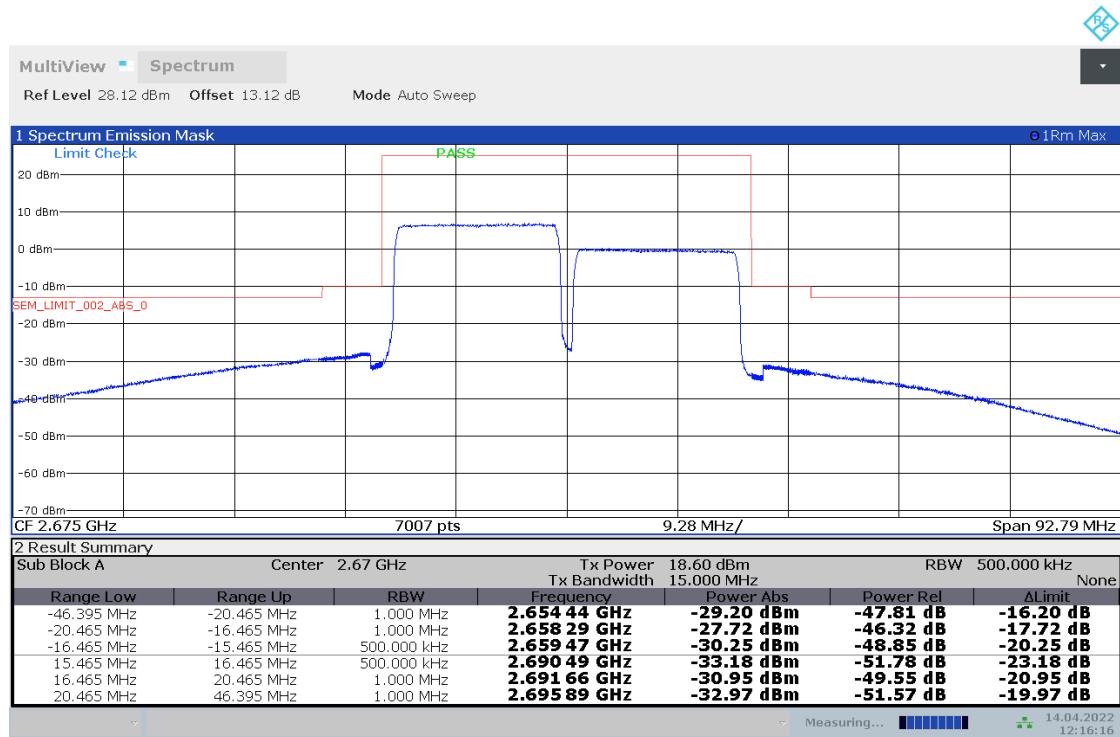


3.2.10 TM2_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



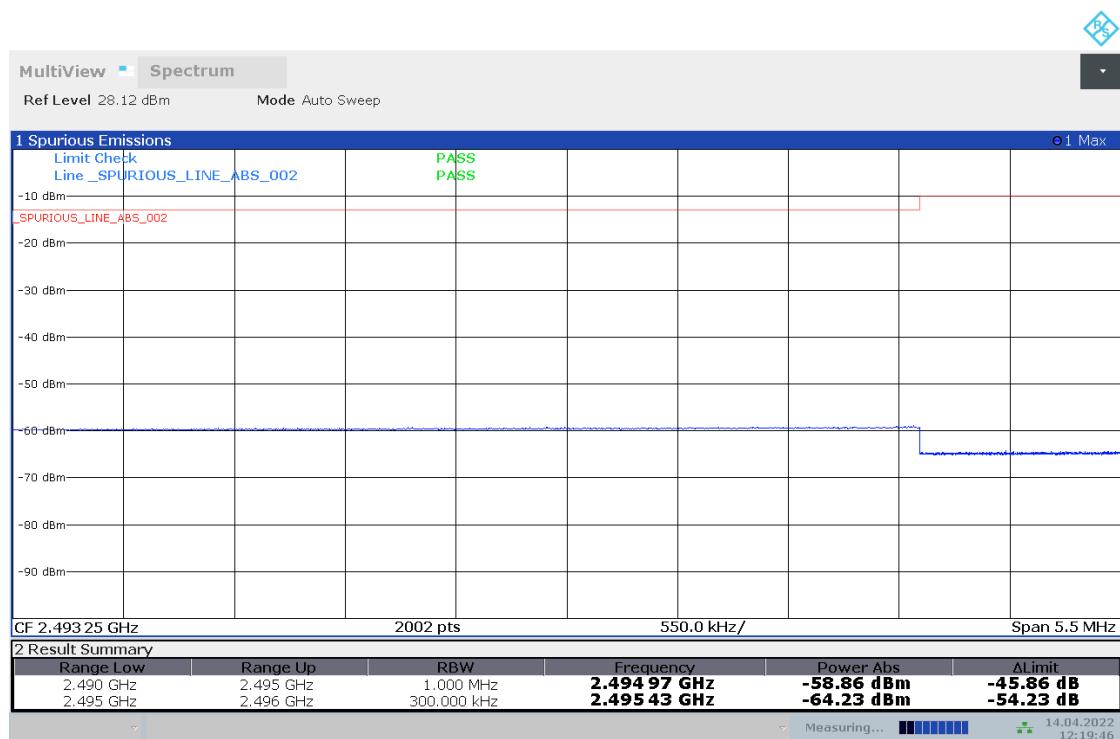
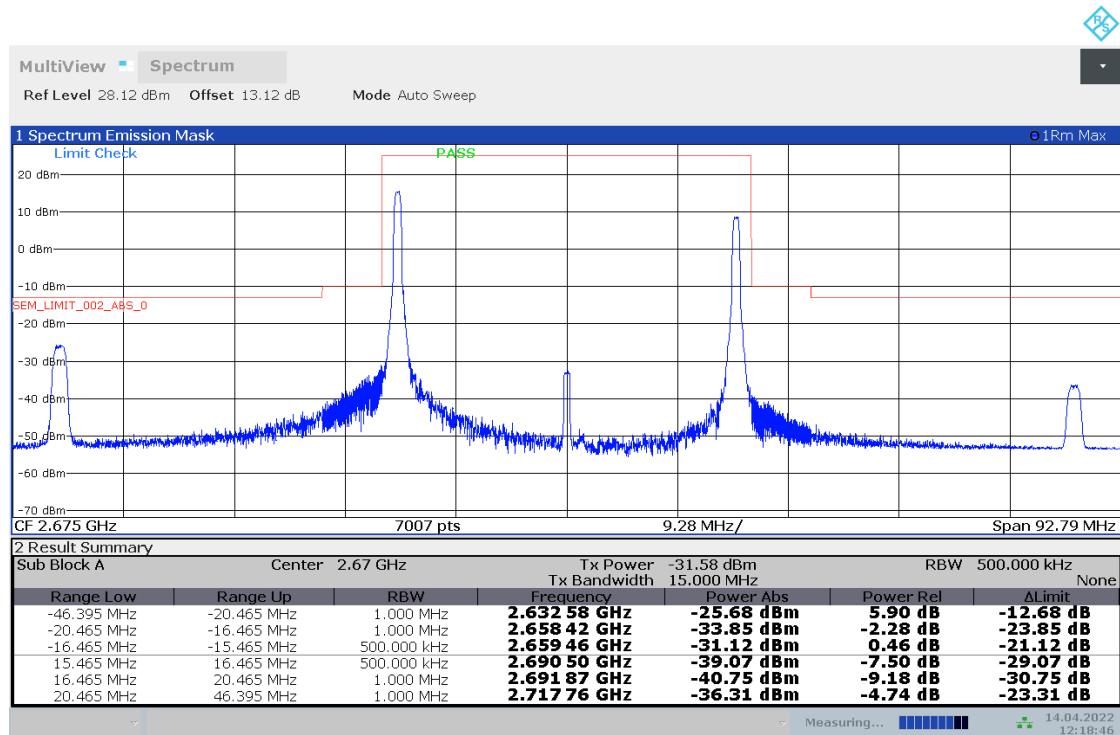
12:14:33 14.04.2022

3.2.11 TM2_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0

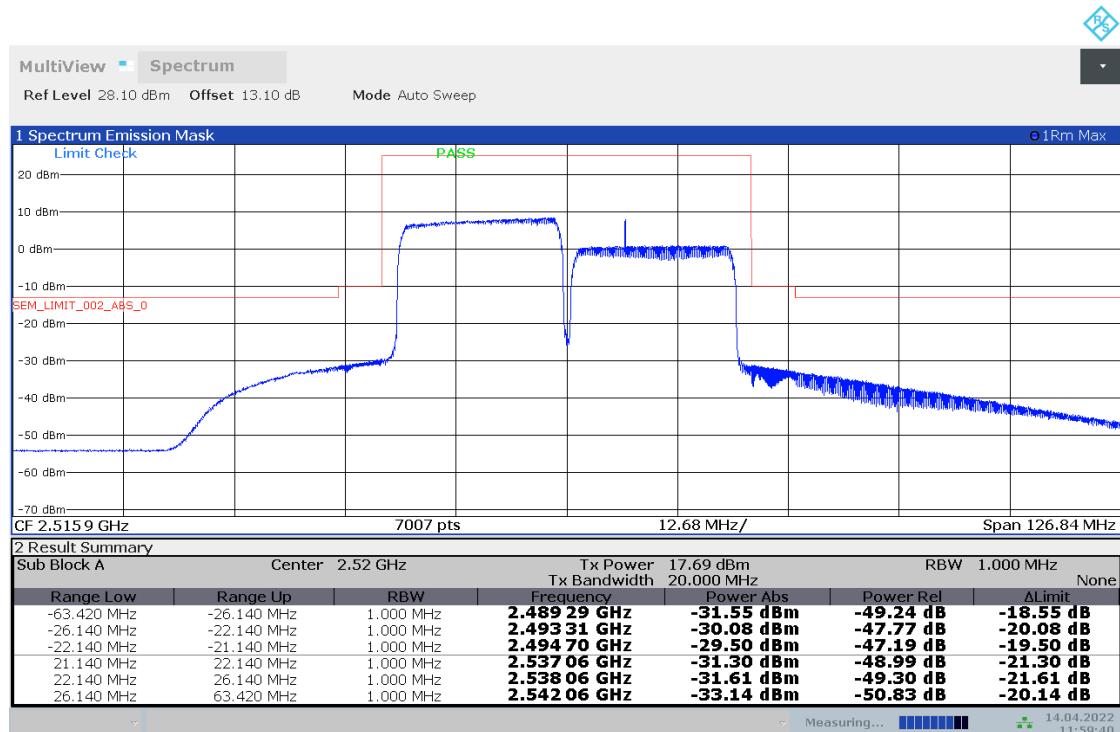


12:17:16 14.04.2022

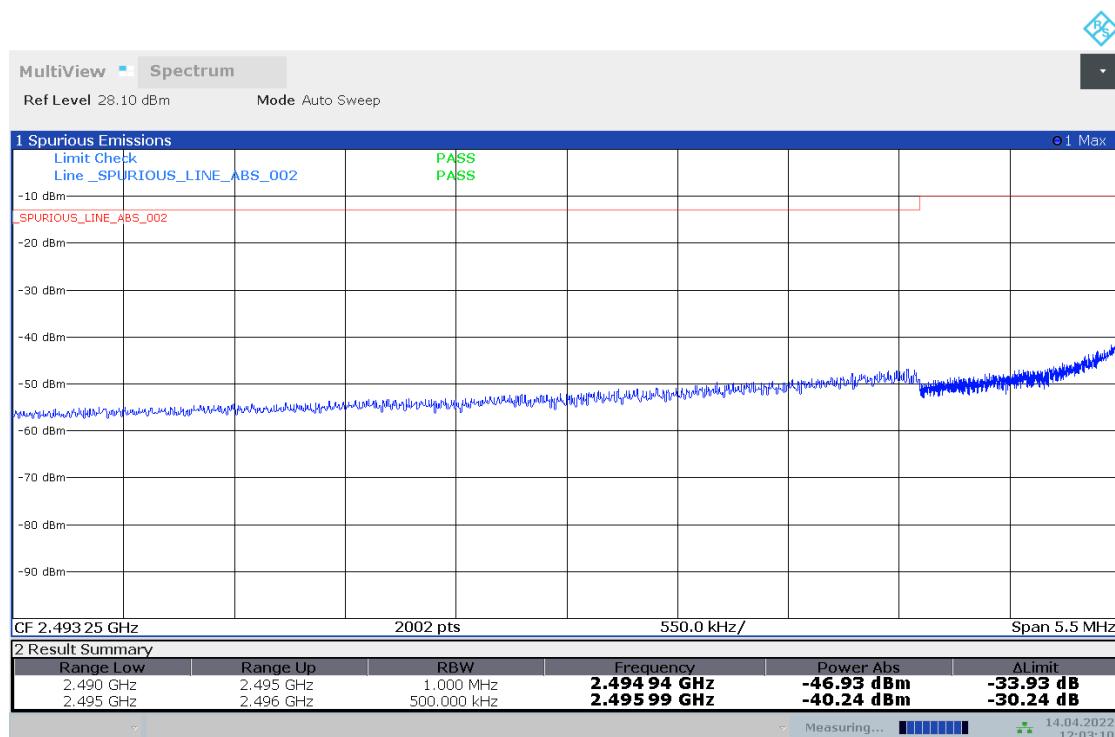
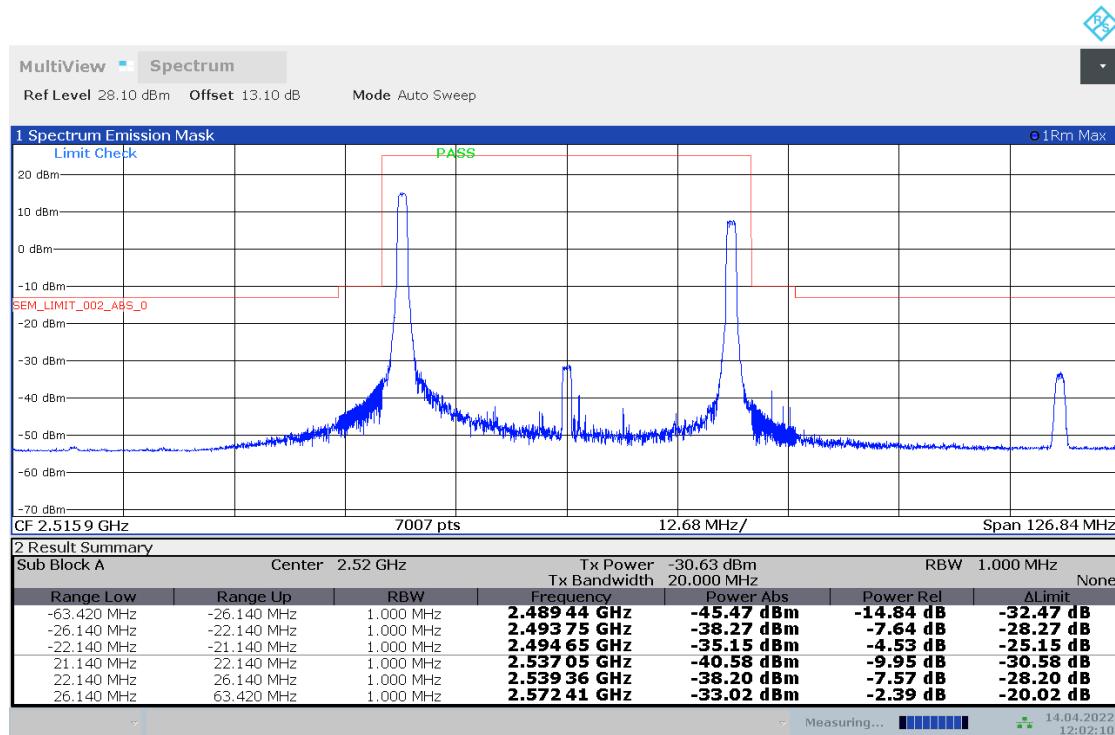
3.2.12 TM2_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



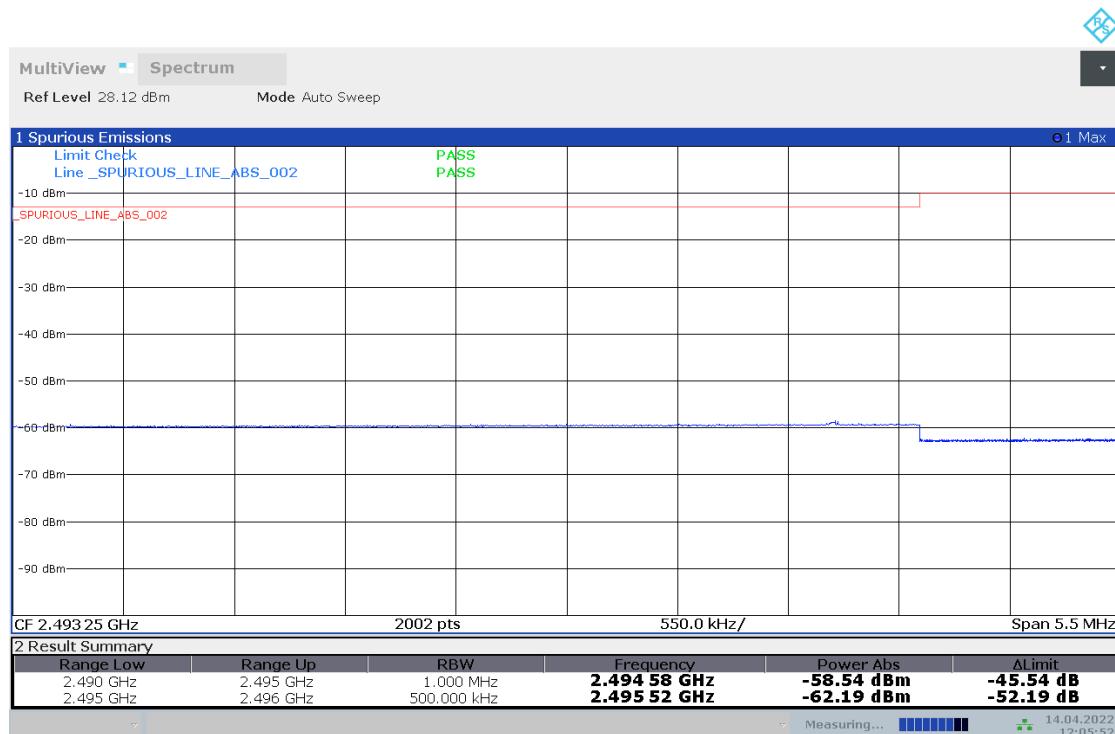
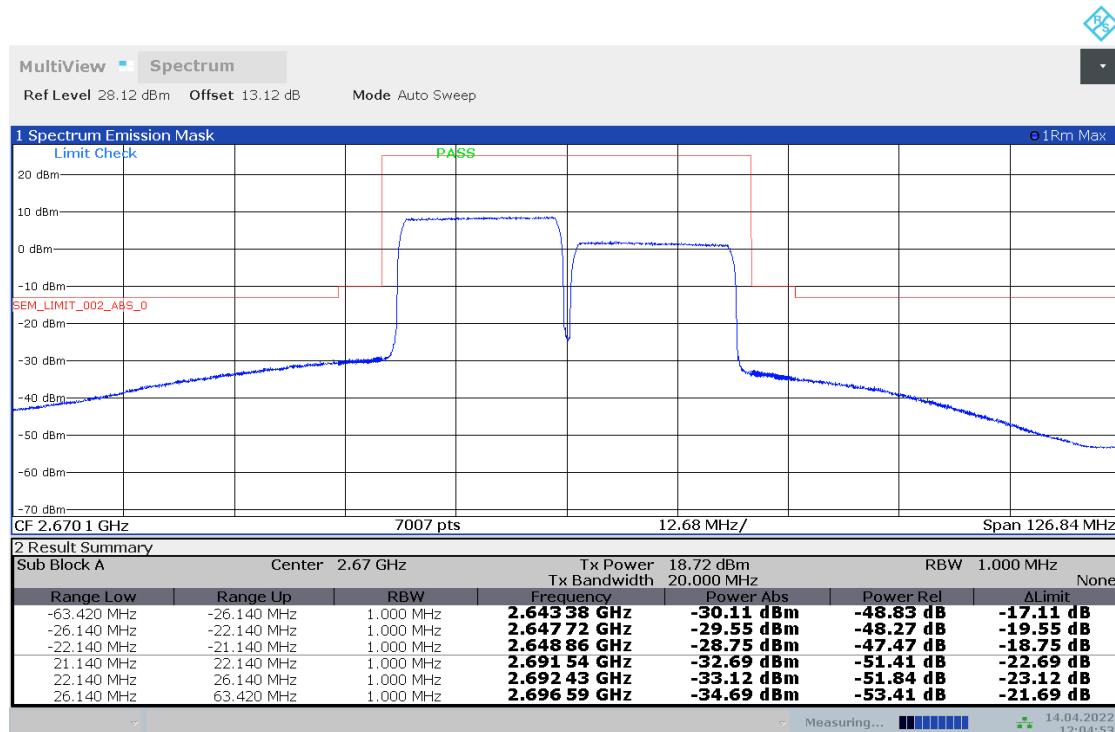
3.2.13 TM2_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



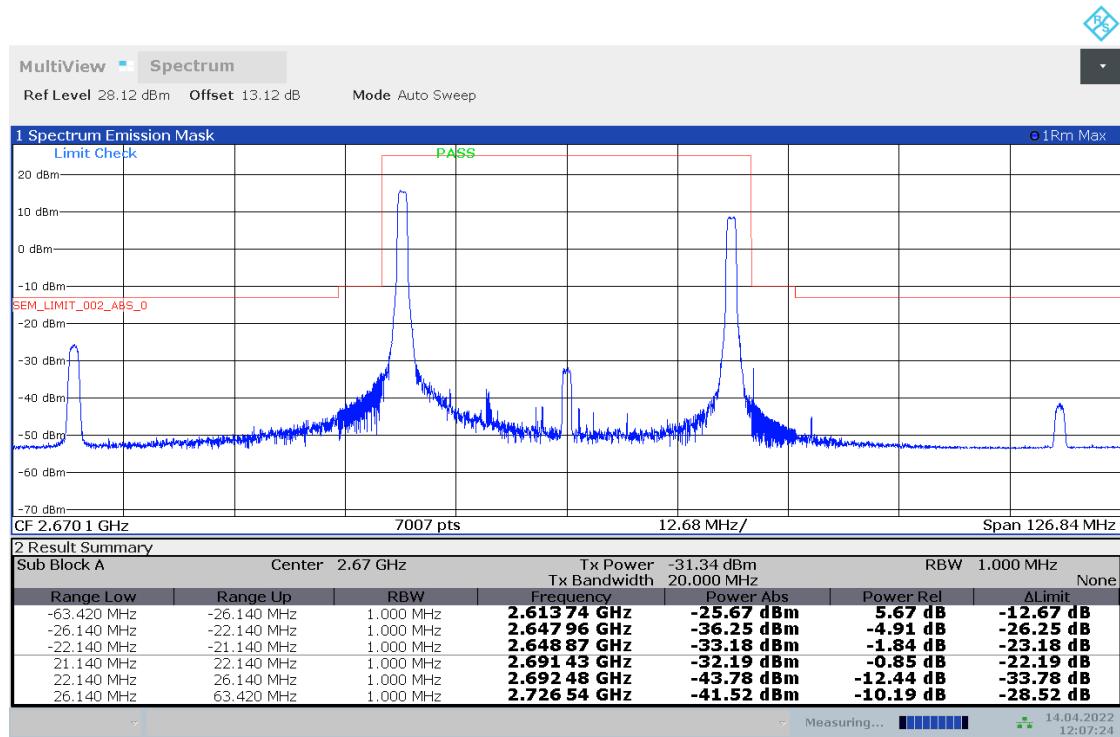
3.2.14 TM2_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



3.2.15 TM2_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0

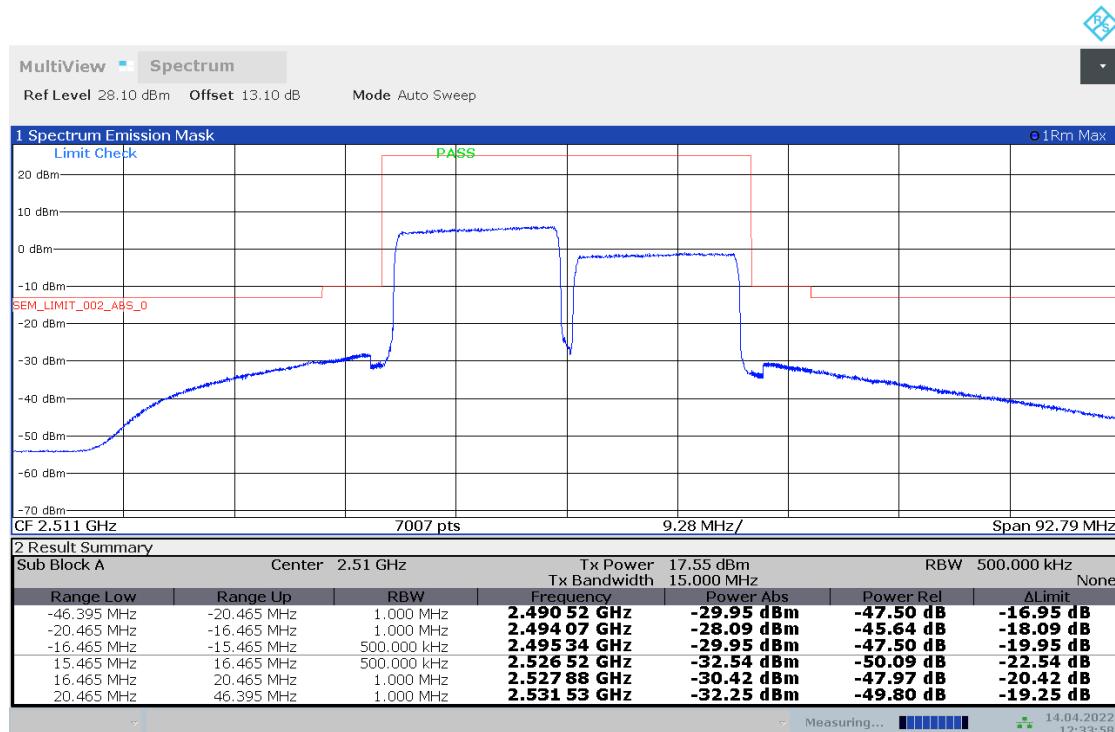


3.2.16 TM2_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



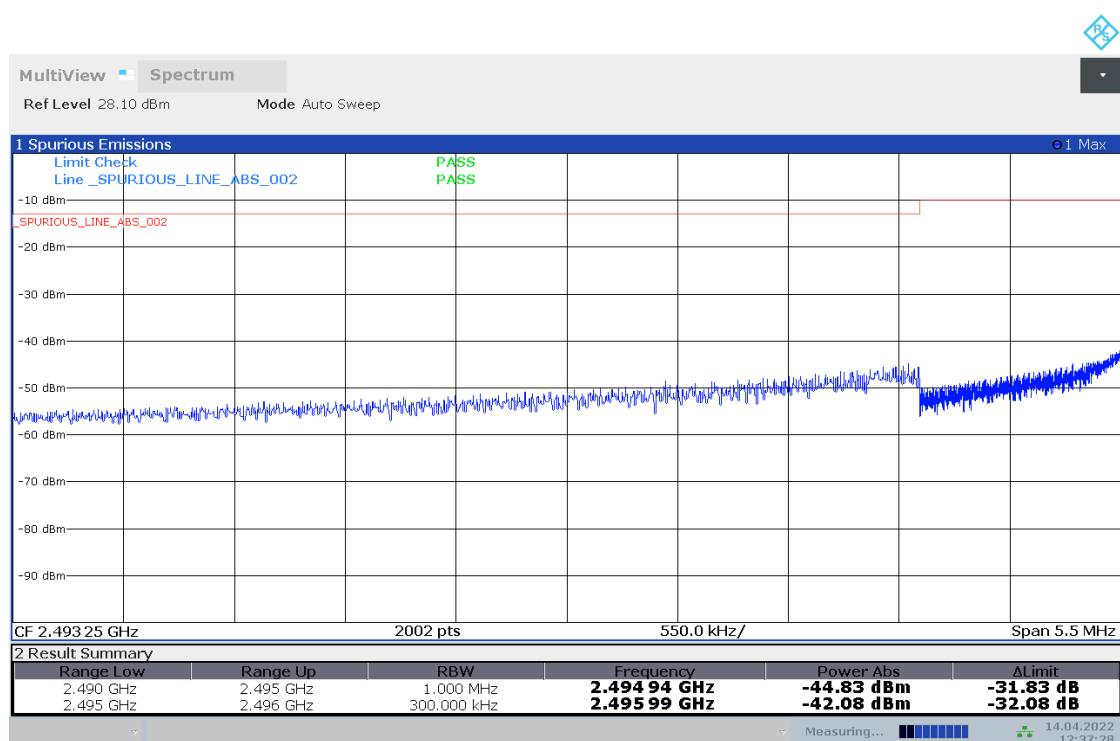
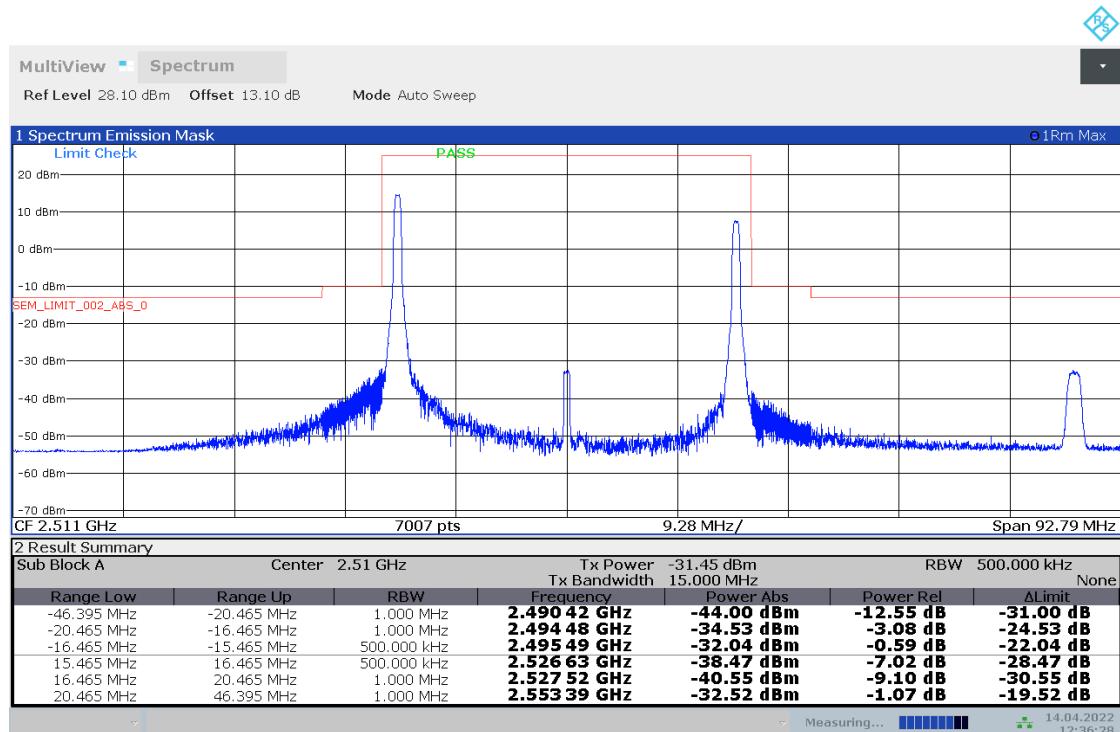
12:08:24 14.04.2022

3.2.17 TM3_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0

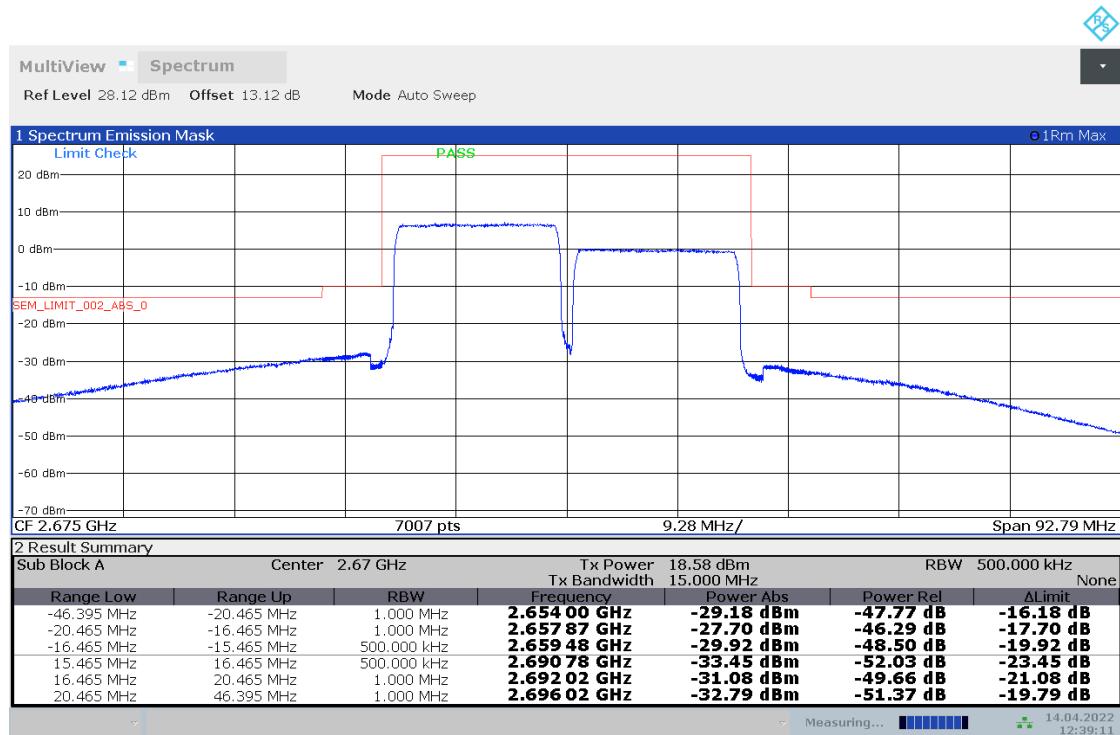


12:34:58 14.04.2022

3.2.18 TM3_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74

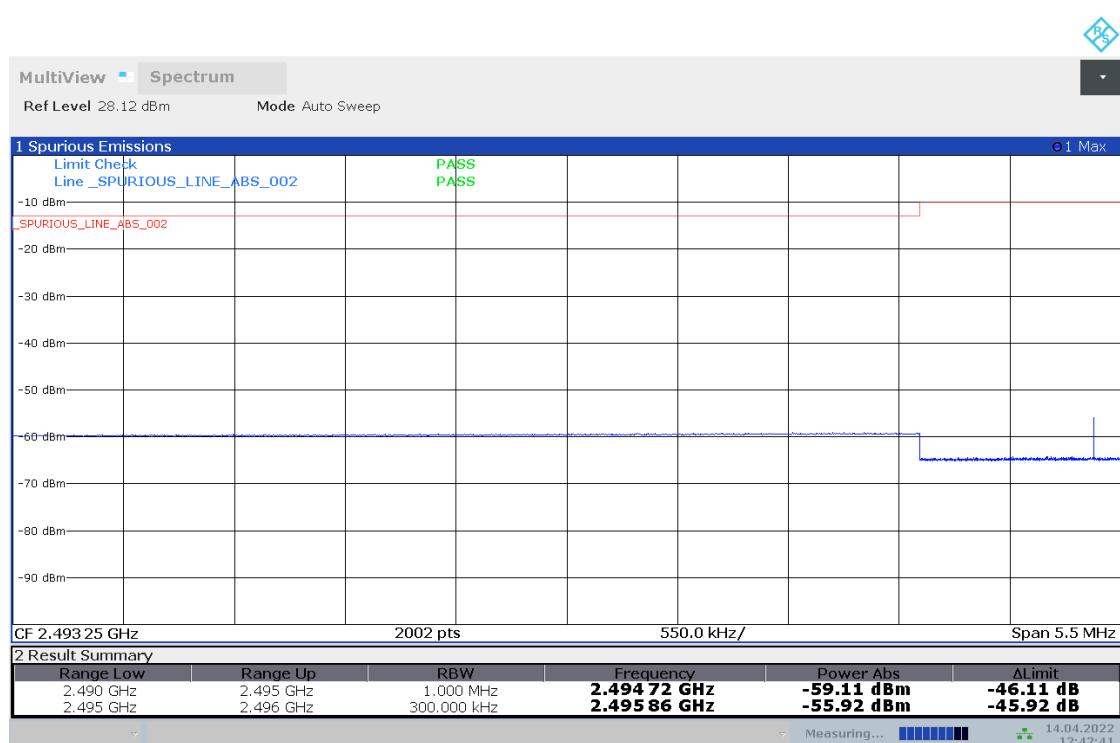
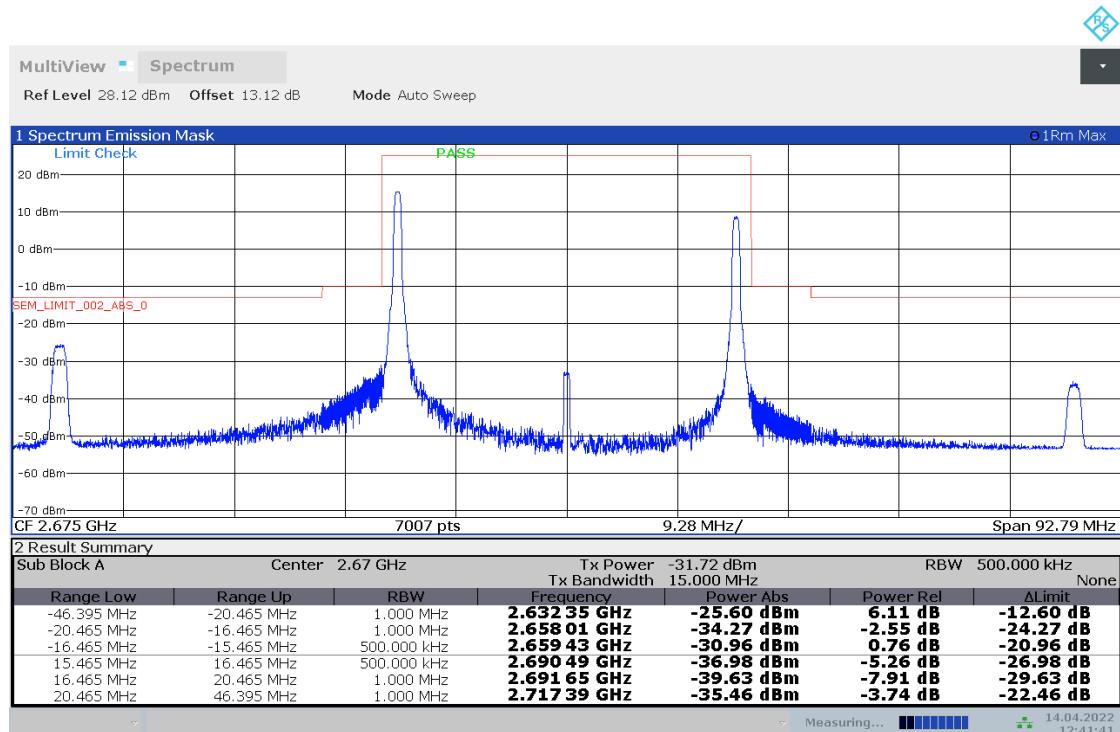


3.2.19 TM3_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0



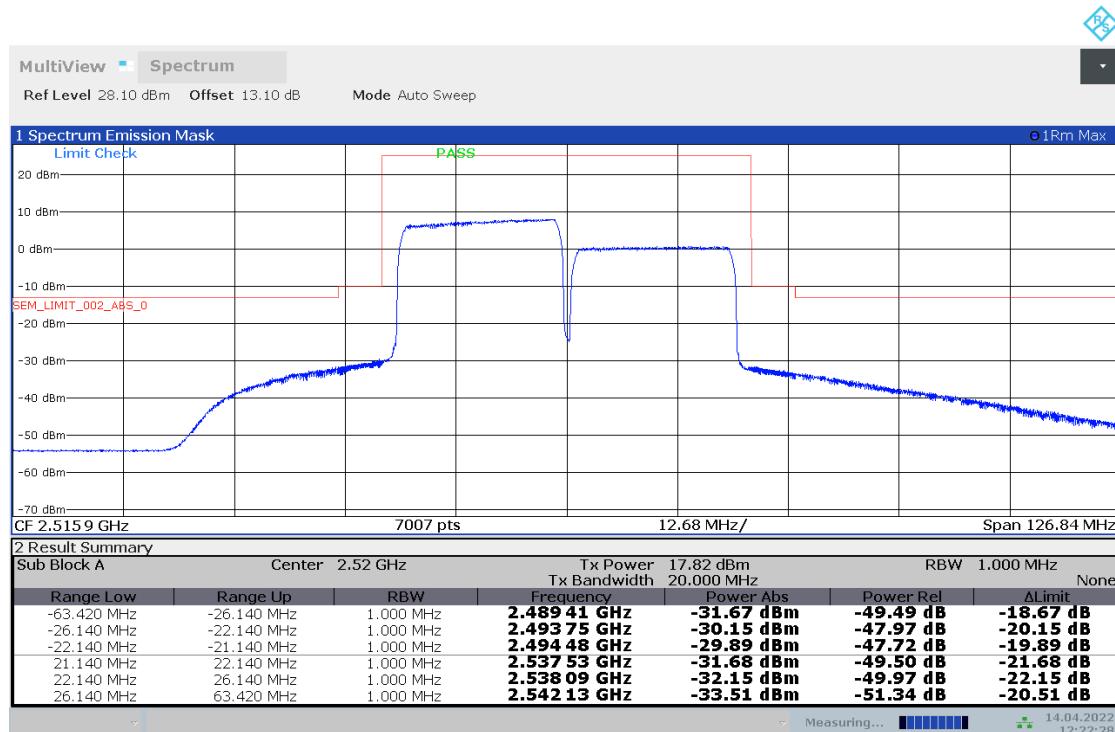
12:40:11 14.04.2022

3.2.20 TM3_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74

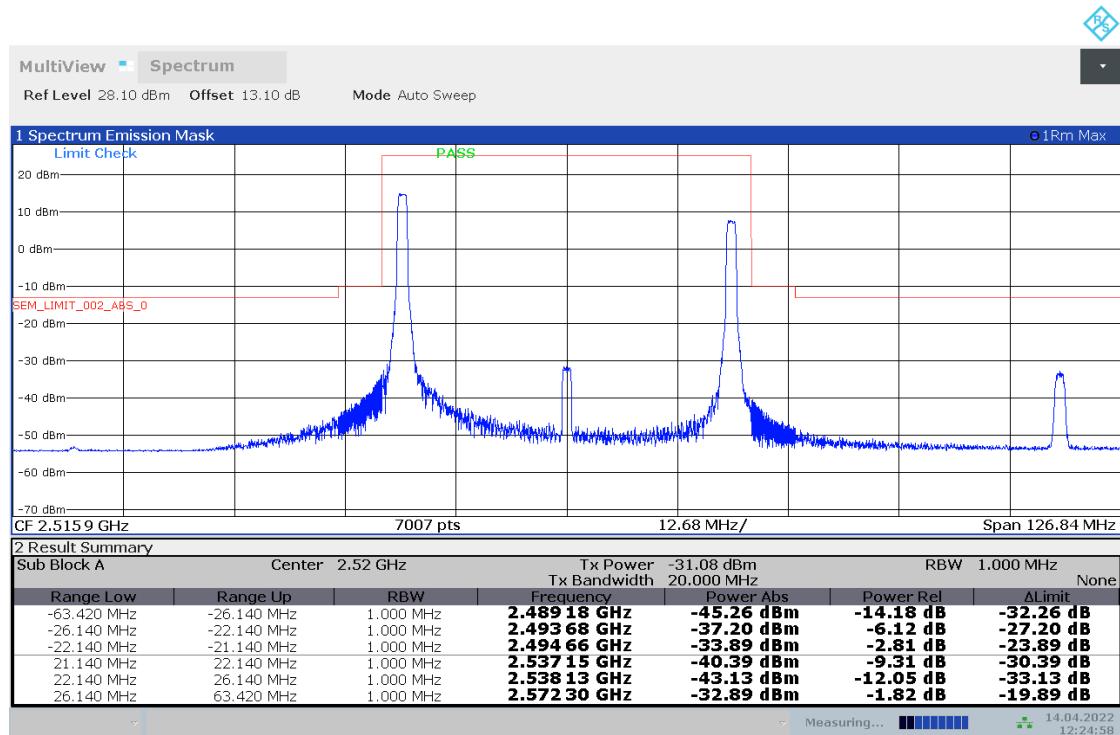


12:42:42 14.04.2022

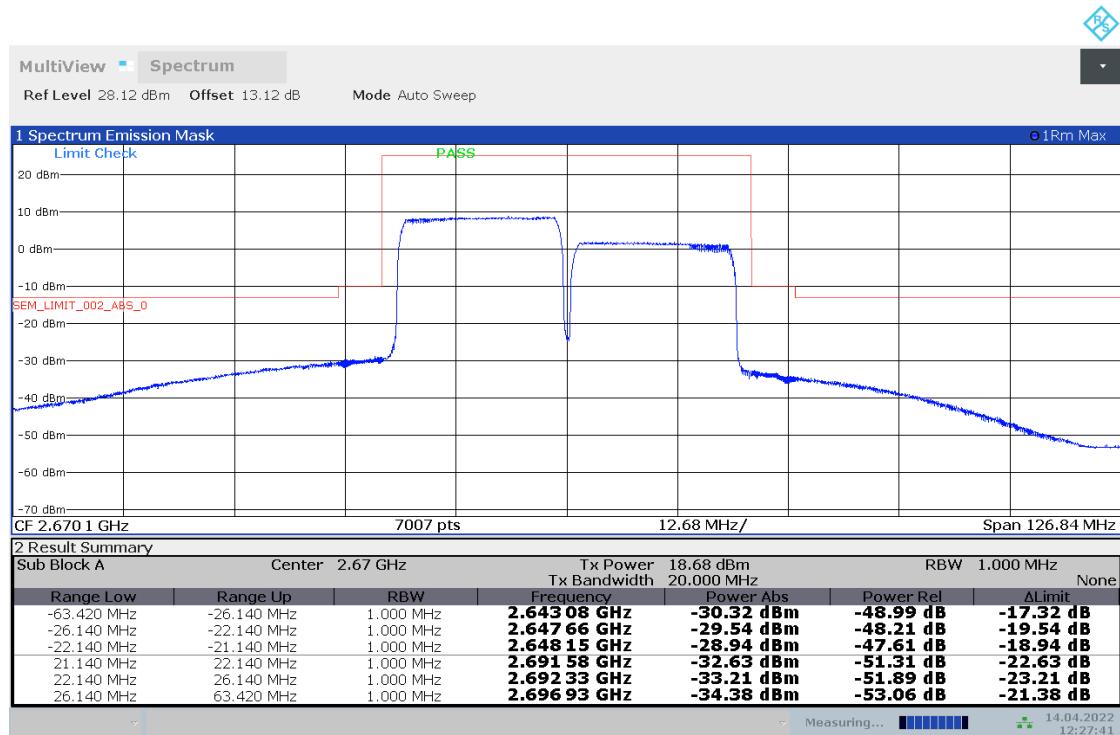
3.2.21 TM3_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



3.2.22 TM3_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99

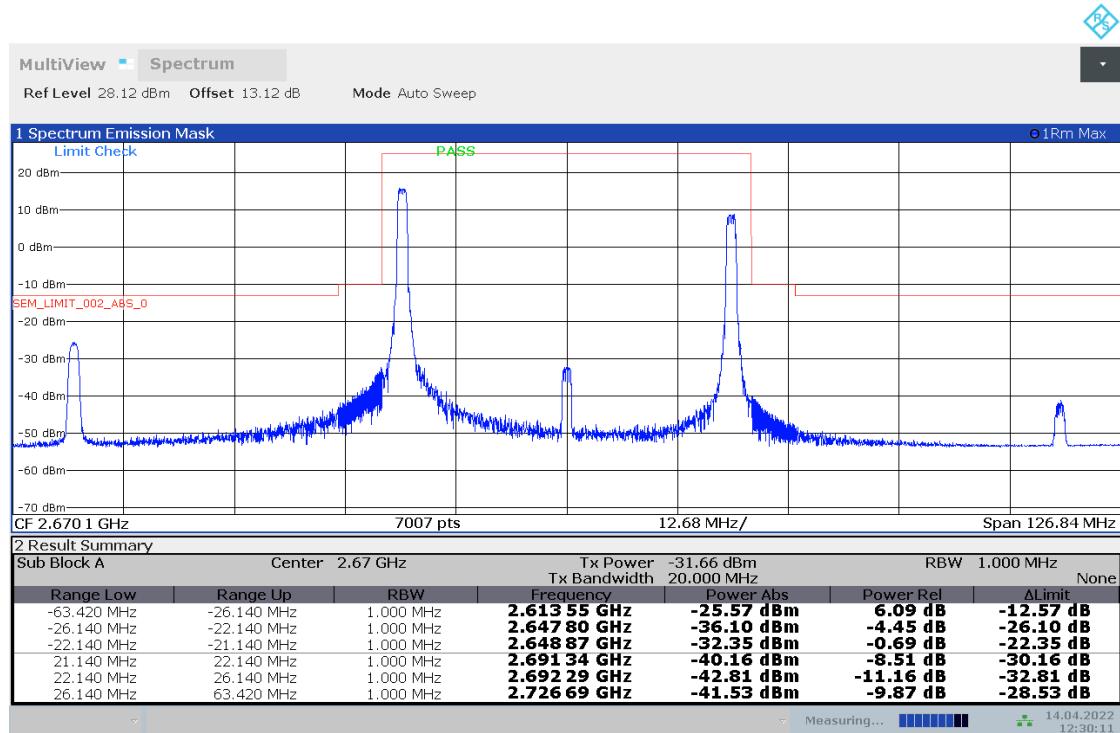


3.2.23 TM3_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



12:28:41 14.04.2022

3.2.24 TM3_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



12:30:12 14.04.2022



12:31:11 14.04.2022

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	-84.06	-55	PASS
				RB75#0	QPSK	22.95	-79.42	-45	PASS
				RB75#0	QPSK	551.69	-54.22	-25	PASS
				RB75#0	QPSK	26343.5	-47.92	-25	PASS
			RB1#0	RB1#74	QPSK	0.01	-84.19	-55	PASS
				RB1#74	QPSK	26.51	-78.01	-45	PASS
				RB1#74	QPSK	549.7	-54.05	-25	PASS
				RB1#74	QPSK	2479.92	-45.14	-25	PASS
		MCH	RB75#0	RB75#0	QPSK	0.01	-83.98	-55	PASS
				RB75#0	QPSK	25.88	-79.21	-45	PASS
				RB75#0	QPSK	551.2	-53.92	-25	PASS
				RB75#0	QPSK	26367.08	-47.92	-25	PASS
			RB1#0	RB1#74	QPSK	0.01	-84.40	-55	PASS
				RB1#74	QPSK	28.22	-78.93	-45	PASS
				RB1#74	QPSK	550.11	-54.25	-25	PASS
				RB1#74	QPSK	26323.1	-47.97	-25	PASS
		HCH	RB75#0	RB75#0	QPSK	0.01	-84.40	-55	PASS
				RB75#0	QPSK	20.7	-78.59	-45	PASS
				RB75#0	QPSK	547.98	-53.98	-25	PASS
				RB75#0	QPSK	2706.23	-37.86	-25	PASS
			RB1#0	RB1#74	QPSK	0.01	-84.01	-55	PASS
				RB1#74	QPSK	27.75	-79.50	-45	PASS
				RB1#74	QPSK	551.33	-54.22	-25	PASS
				RB1#74	QPSK	2713.88	-38.07	-25	PASS

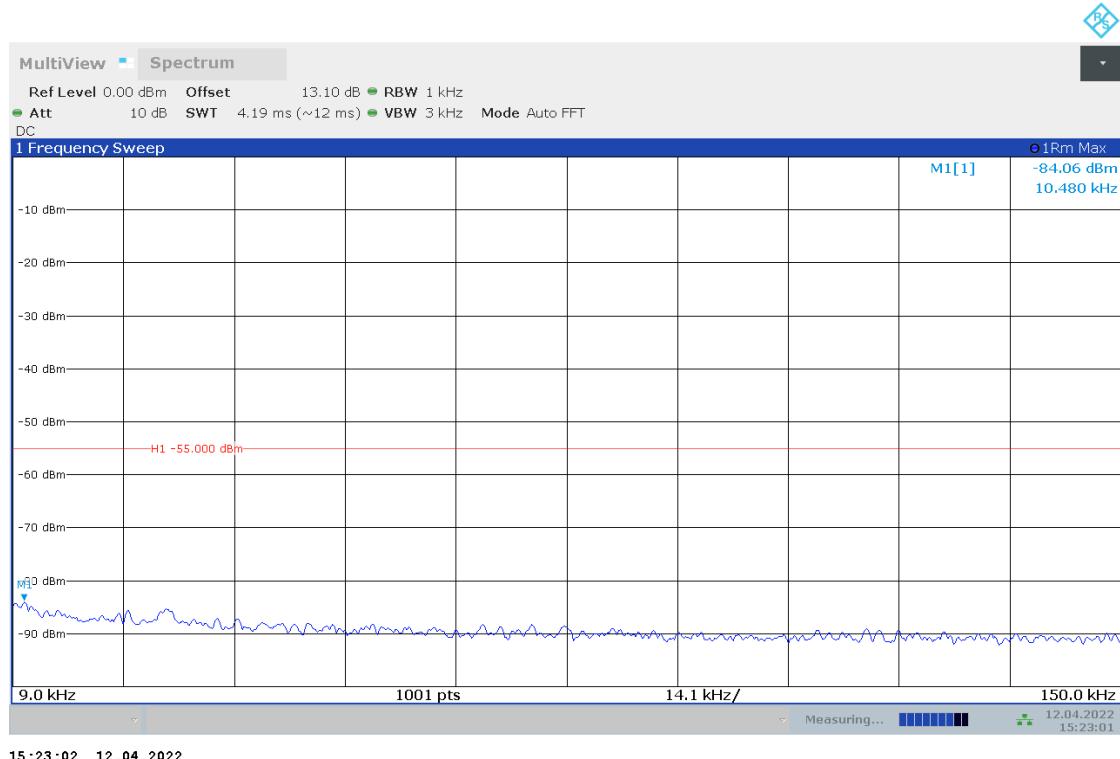
Spurious Emission at Antenna Terminal									
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
TM1	20+20	LCH	RB100#0	RB100#0	QPSK	0.01	-83.93	-55	PASS
				RB100#0	QPSK	28.56	-79.19	-45	PASS
				RB100#0	QPSK	544.95	-53.79	-25	PASS
				RB100#0	QPSK	26359.43	-48.13	-25	PASS
			RB1#0	RB1#99	QPSK	0.01	-84.27	-55	PASS
				RB1#99	QPSK	22.18	-79.09	-45	PASS
				RB1#99	QPSK	552.25	-54.03	-25	PASS
				RB1#99	QPSK	26339.67	-47.82	-25	PASS
		MCH	RB100#0	RB100#0	QPSK	0.01	-84.51	-55	PASS
				RB100#0	QPSK	24.93	-78.62	-45	PASS
				RB100#0	QPSK	556.3	-54.00	-25	PASS
				RB100#0	QPSK	26349.87	-47.98	-25	PASS
			RB1#0	RB1#99	QPSK	0.01	-83.22	-55	PASS
				RB1#99	QPSK	27.77	-78.93	-45	PASS
				RB1#99	QPSK	550.77	-53.91	-25	PASS
				RB1#99	QPSK	26359.43	-48.00	-25	PASS
		HCH	RB100#0	RB100#0	QPSK	0.01	-83.69	-55	PASS
				RB100#0	QPSK	25.05	-79.14	-45	PASS
				RB100#0	QPSK	551.54	-54.12	-25	PASS
				RB100#0	QPSK	26316.72	-47.97	-25	PASS
			RB1#0	RB1#99	QPSK	0.01	-84.74	-55	PASS
				RB1#99	QPSK	22.18	-79.41	-45	PASS
				RB1#99	QPSK	548.42	-54.05	-25	PASS
				RB1#99	QPSK	26344.14	-47.71	-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	-84.10	-55	PASS
				RB75#0	16QAM	26.02	-77.87	-45	PASS
				RB75#0	16QAM	546.43	-54.04	-25	PASS
				RB75#0	16QAM	2479.92	-32.68	-25	PASS
			RB1#0	RB1#74	16QAM	0.01	-84.06	-55	PASS
				RB1#74	16QAM	28.15	-79.68	-45	PASS
				RB1#74	16QAM	552.17	-54.25	-25	PASS
				RB1#74	16QAM	2475.46	-37.93	-25	PASS
		MCH	RB75#0	RB75#0	16QAM	0.01	-84.22	-55	PASS
				RB75#0	16QAM	22.73	-79.25	-45	PASS
				RB75#0	16QAM	547.3	-53.86	-25	PASS
				RB75#0	16QAM	26354.33	-47.96	-25	PASS
			RB1#0	RB1#74	16QAM	0.01	-84.13	-55	PASS
				RB1#74	16QAM	22.74	-79.16	-45	PASS
				RB1#74	16QAM	551.91	-53.93	-25	PASS
				RB1#74	16QAM	26381.11	-48.12	-25	PASS
		HCH	RB75#0	RB75#0	16QAM	0.01	-83.50	-55	PASS
				RB75#0	16QAM	21.71	-79.32	-45	PASS
				RB75#0	16QAM	548.2	-54.02	-25	PASS
				RB75#0	16QAM	2708.14	-38.65	-25	PASS
			RB1#0	RB1#74	16QAM	0.01	-83.92	-55	PASS
				RB1#74	16QAM	14.53	-79.34	-45	PASS
				RB1#74	16QAM	551.57	-53.97	-25	PASS
				RB1#74	16QAM	2713.88	-36.59	-25	PASS

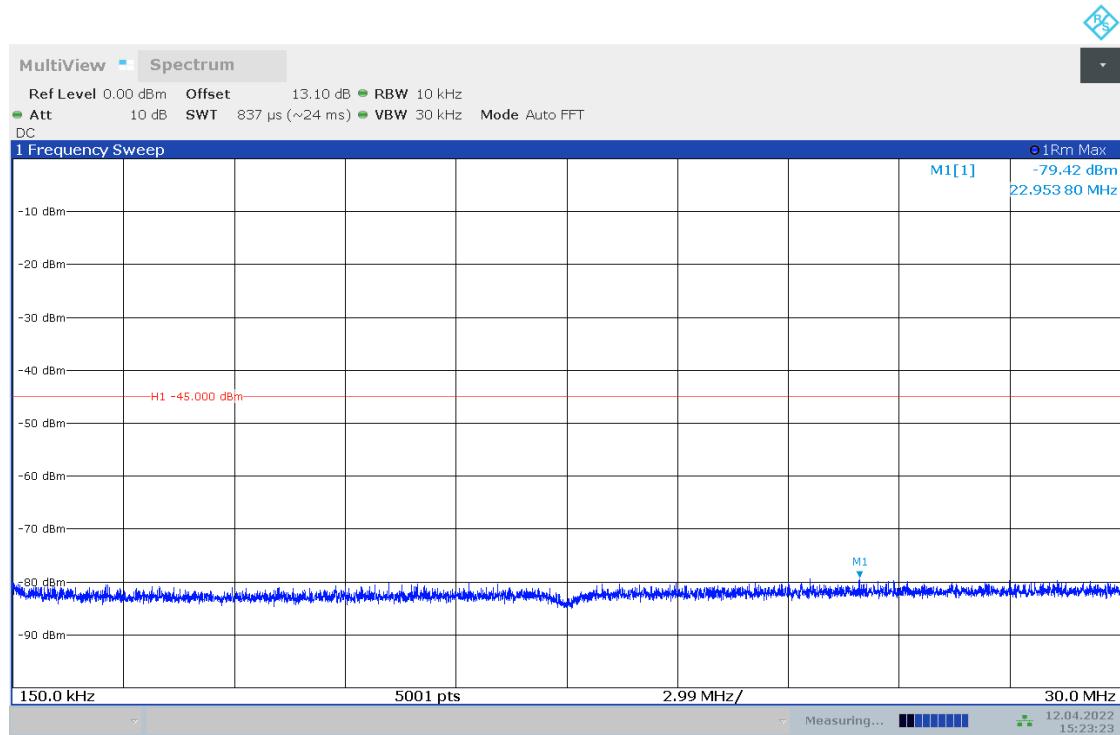
Spurious Emission at Antenna Terminal									
Test Mode	Test Bandwidth [MHz]	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
TM2	20+20	LCH	RB100#0	RB100#0	16QAM	0.01	-83.73	-55	PASS
				RB100#0	16QAM	27.7	-79.48	-45	PASS
				RB100#0	16QAM	552.37	-53.90	-25	PASS
				RB100#0	16QAM	26346.69	-48.04	-25	PASS
			RB1#0	RB1#99	16QAM	0.01	-83.88	-55	PASS
				RB1#99	16QAM	27.36	-79.34	-45	PASS
				RB1#99	16QAM	547.54	-54.19	-25	PASS
				RB1#99	16QAM	26332.02	-47.90	-25	PASS
		MCH	RB100#0	RB100#0	16QAM	0.01	-84.61	-55	PASS
				RB100#0	16QAM	26.43	-79.23	-45	PASS
				RB100#0	16QAM	549.46	-54.05	-25	PASS
				RB100#0	16QAM	26351.15	-48.05	-25	PASS
			RB1#0	RB1#99	16QAM	0.01	-84.21	-55	PASS
				RB1#99	16QAM	25.54	-78.70	-45	PASS
				RB1#99	16QAM	551.25	-54.10	-25	PASS
				RB1#99	16QAM	26321.82	-48.03	-25	PASS
		HCH	RB100#0	RB100#0	16QAM	0.01	-83.76	-55	PASS
				RB100#0	16QAM	26.65	-79.18	-45	PASS
				RB100#0	16QAM	547.86	-54.21	-25	PASS
				RB100#0	16QAM	2715.15	-42.27	-25	PASS
			RB1#0	RB1#99	16QAM	0.01	-84.61	-55	PASS
				RB1#99	16QAM	16.06	-78.65	-45	PASS
				RB1#99	16QAM	551.01	-53.88	-25	PASS
				RB1#99	16QAM	2726.63	-46.62	-25	PASS

4.2 Test Plots

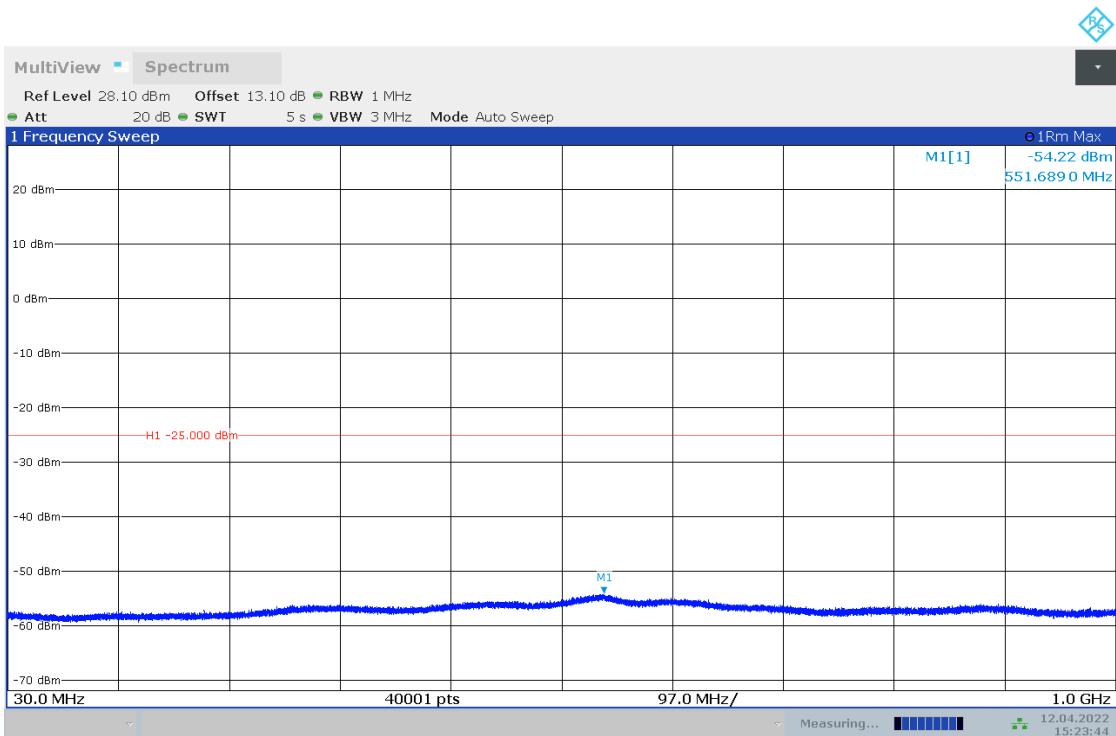
4.2.1 TM1_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0



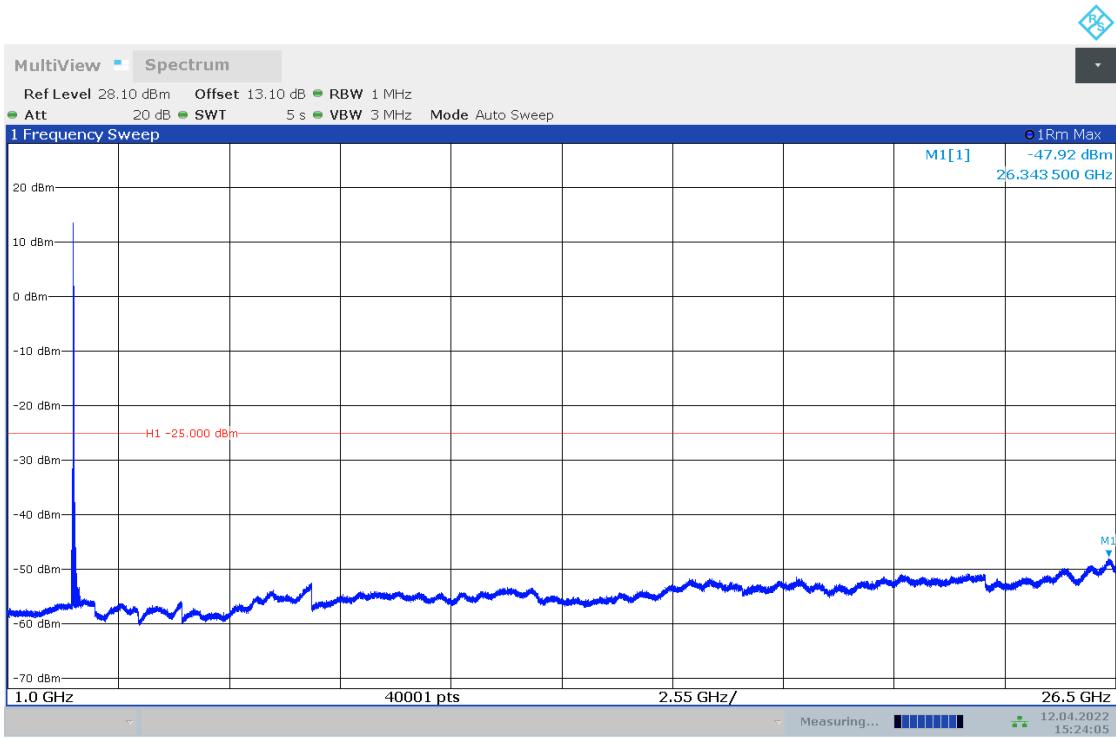
15:23:02 12.04.2022



15:23:23 12.04.2022

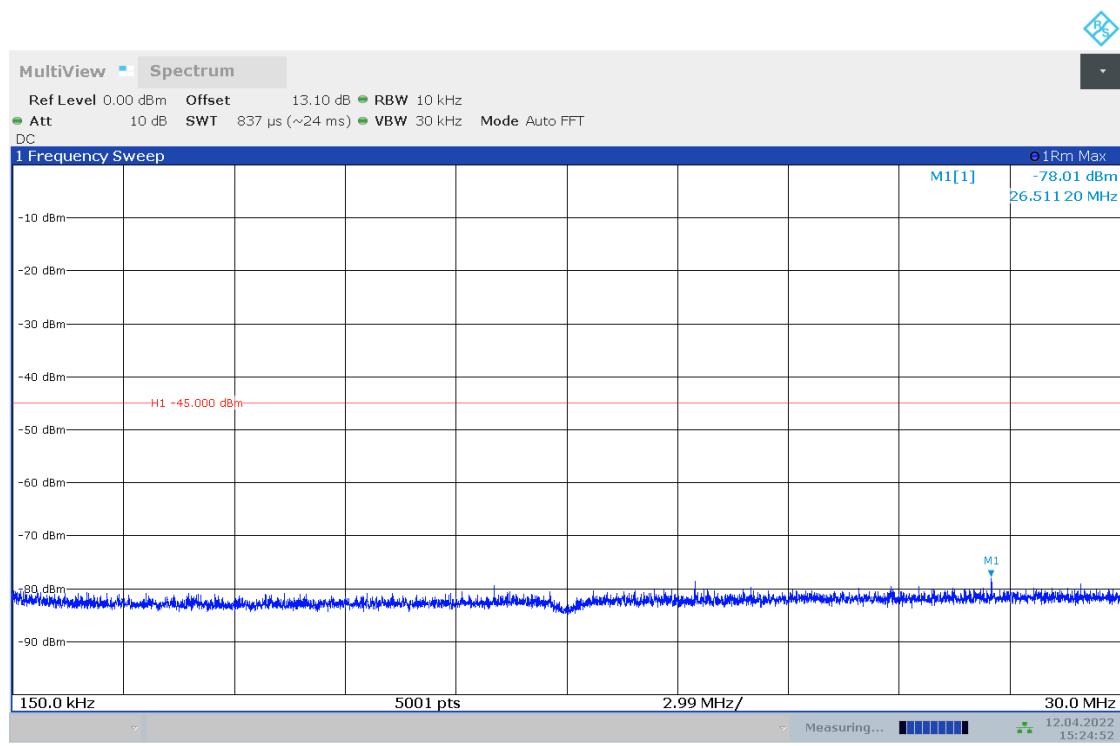
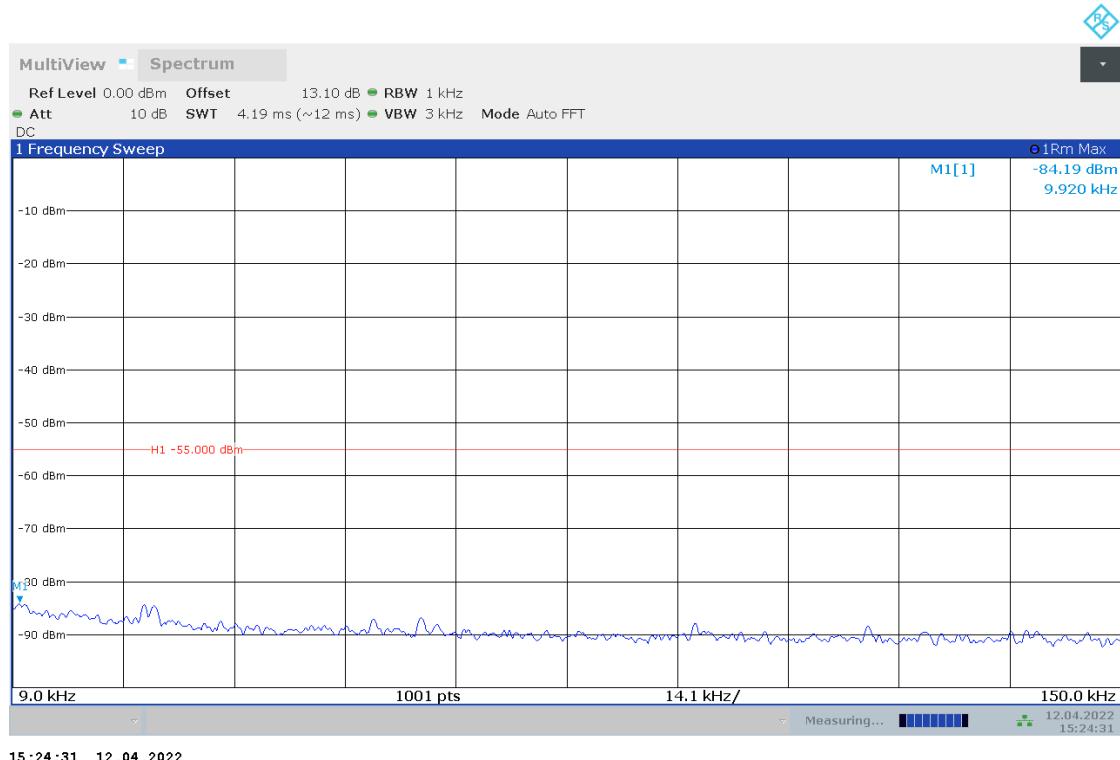


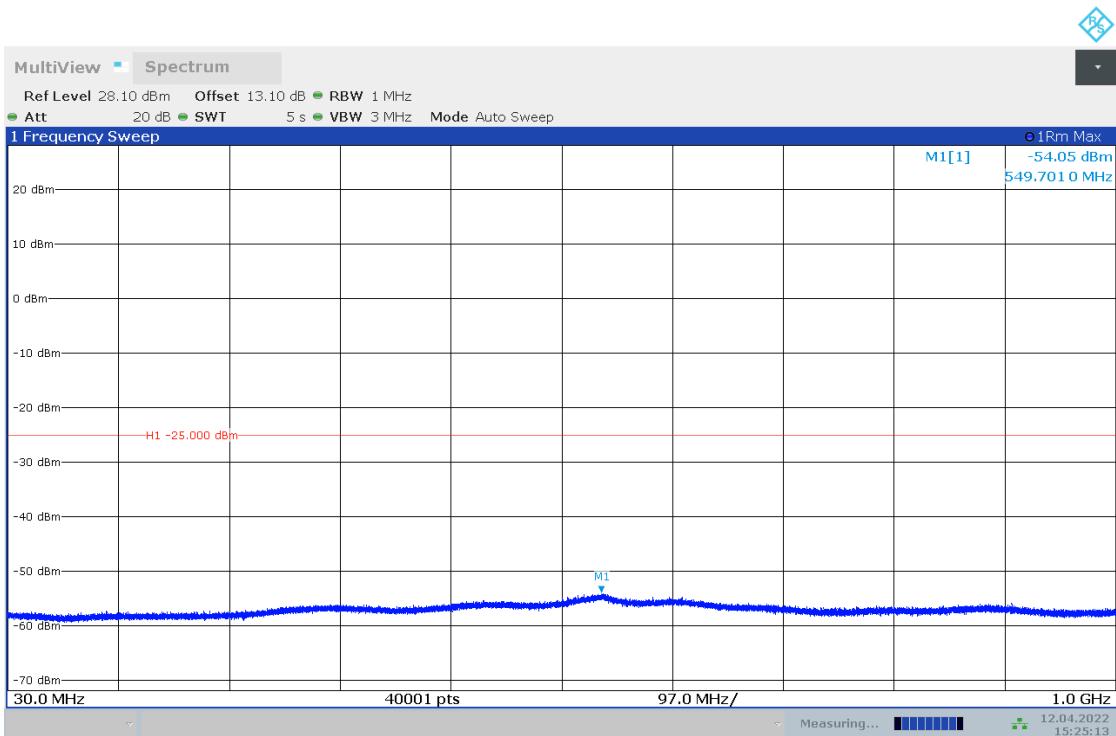
15:23:44 12.04.2022



15:24:05 12.04.2022

4.2.2 TM1_LCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



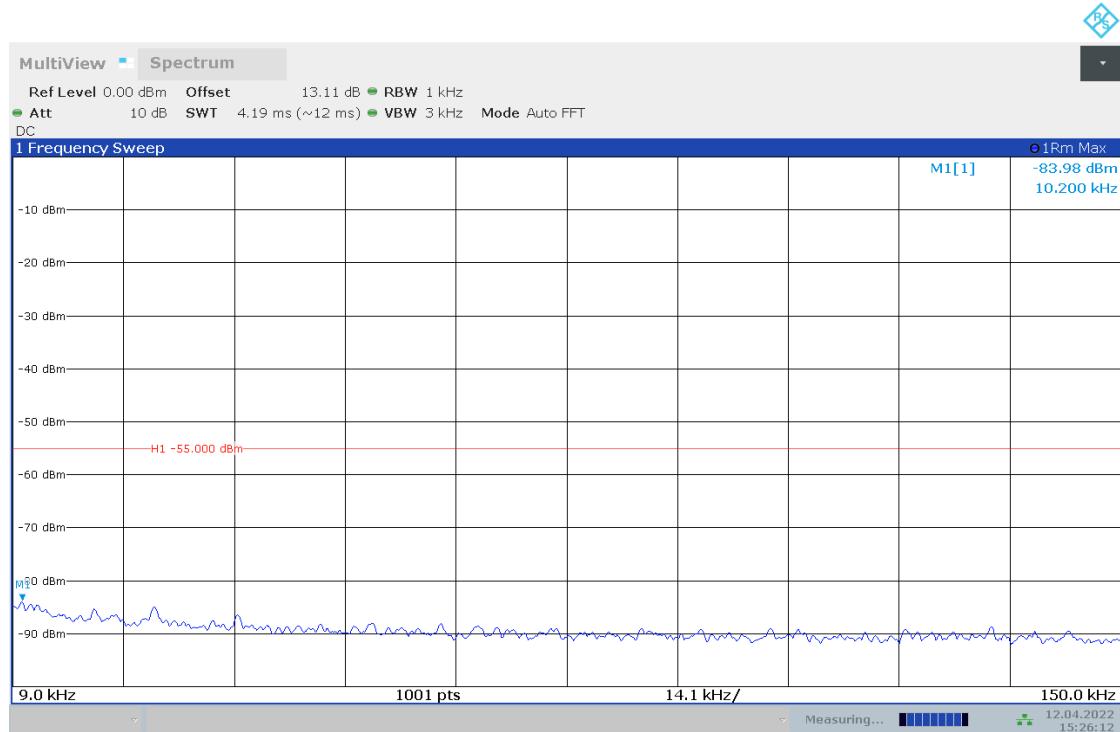


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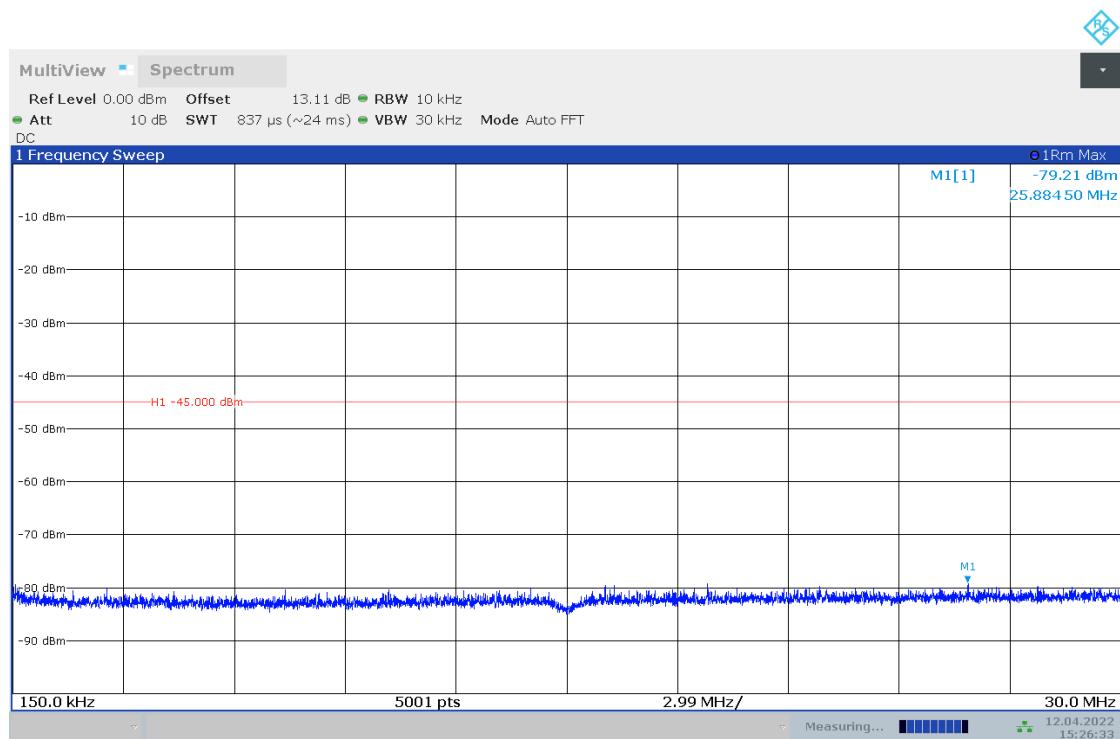


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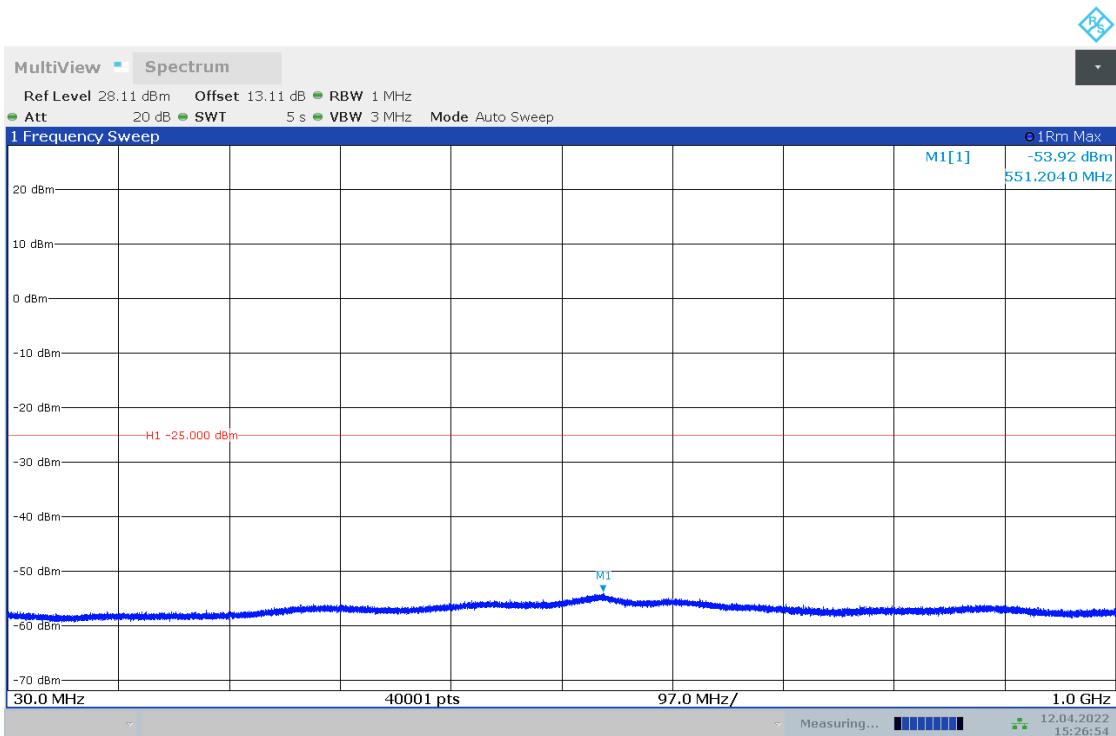
4.2.3 TM1_MCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0



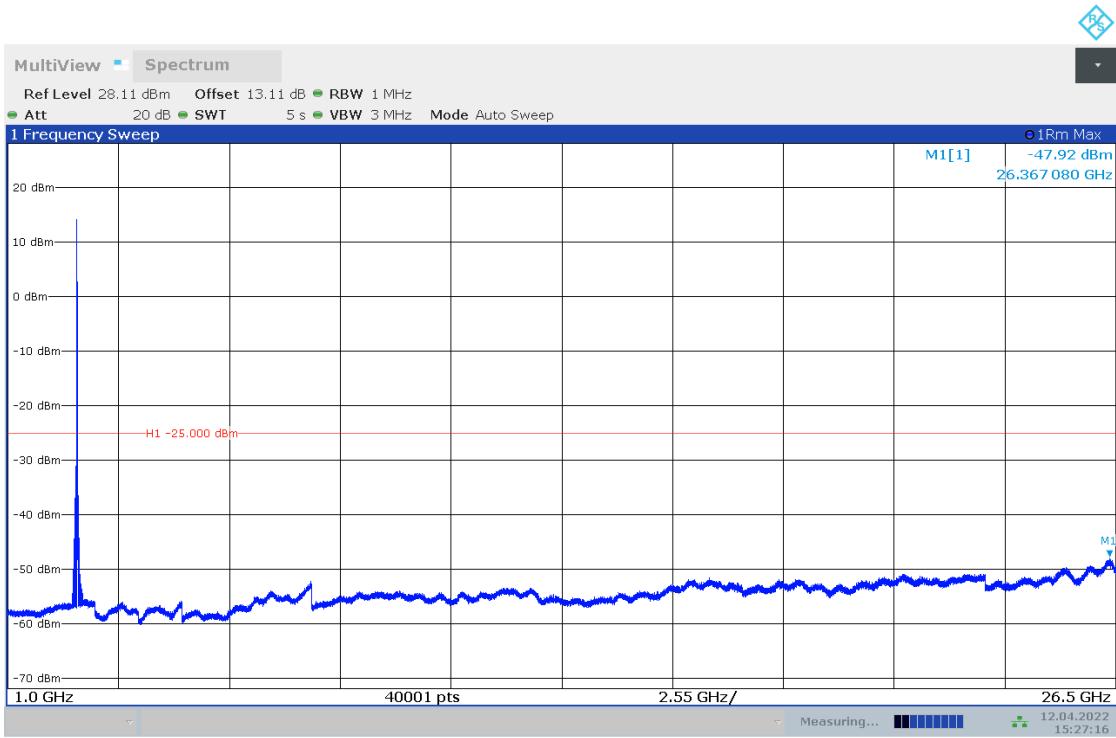
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15:26:34 12.04.2022

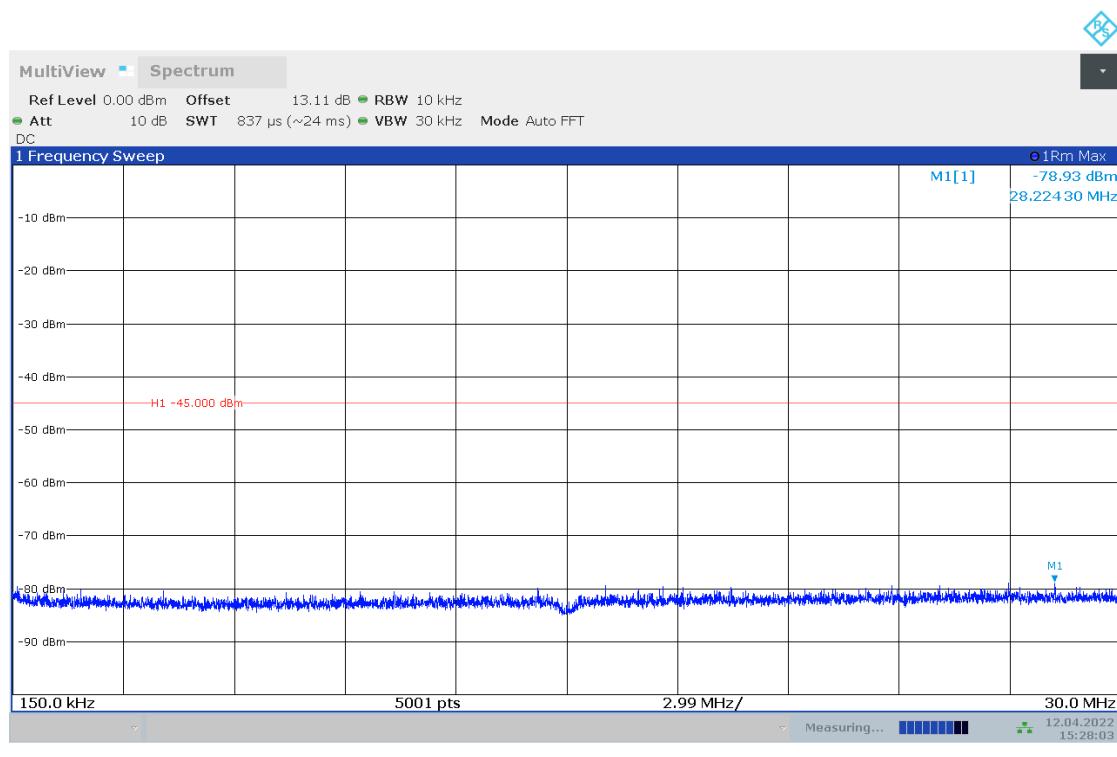
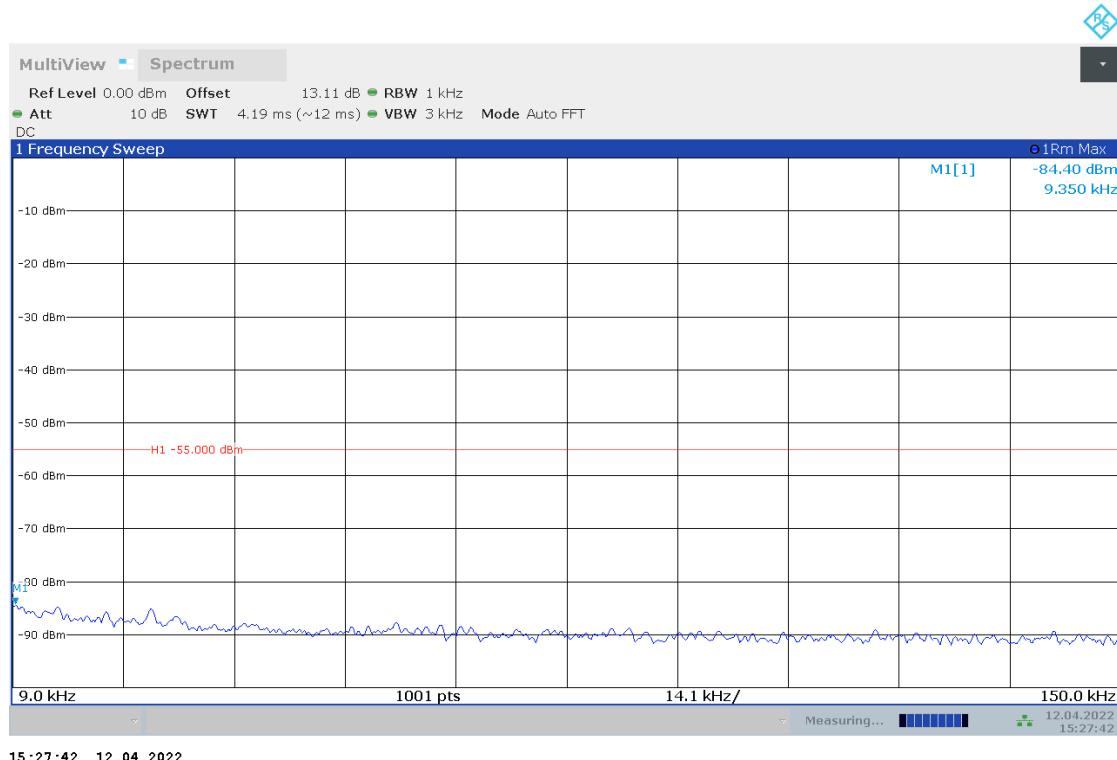


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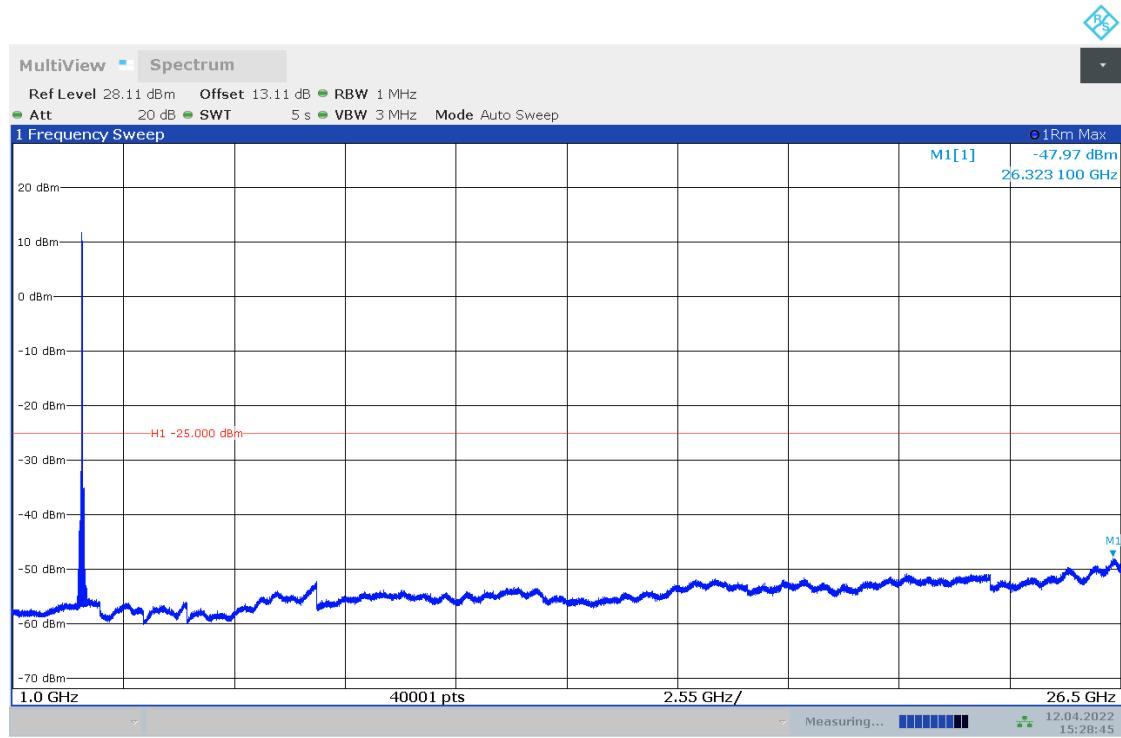
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4.2.4 TM1_MCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



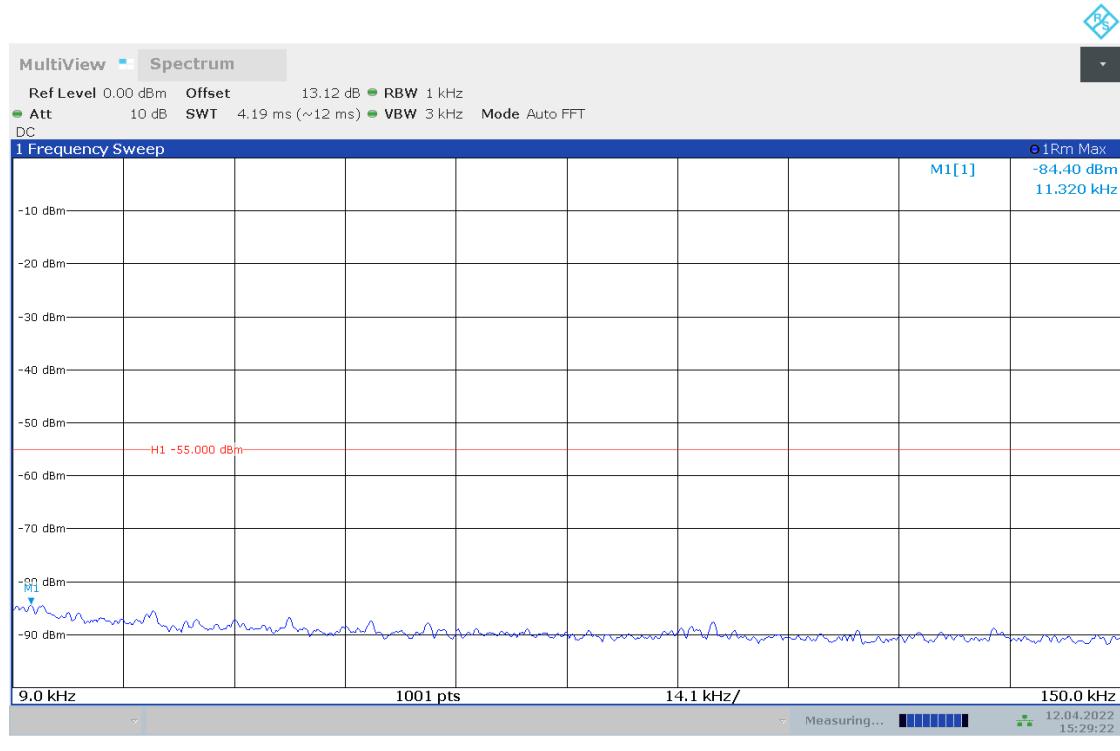


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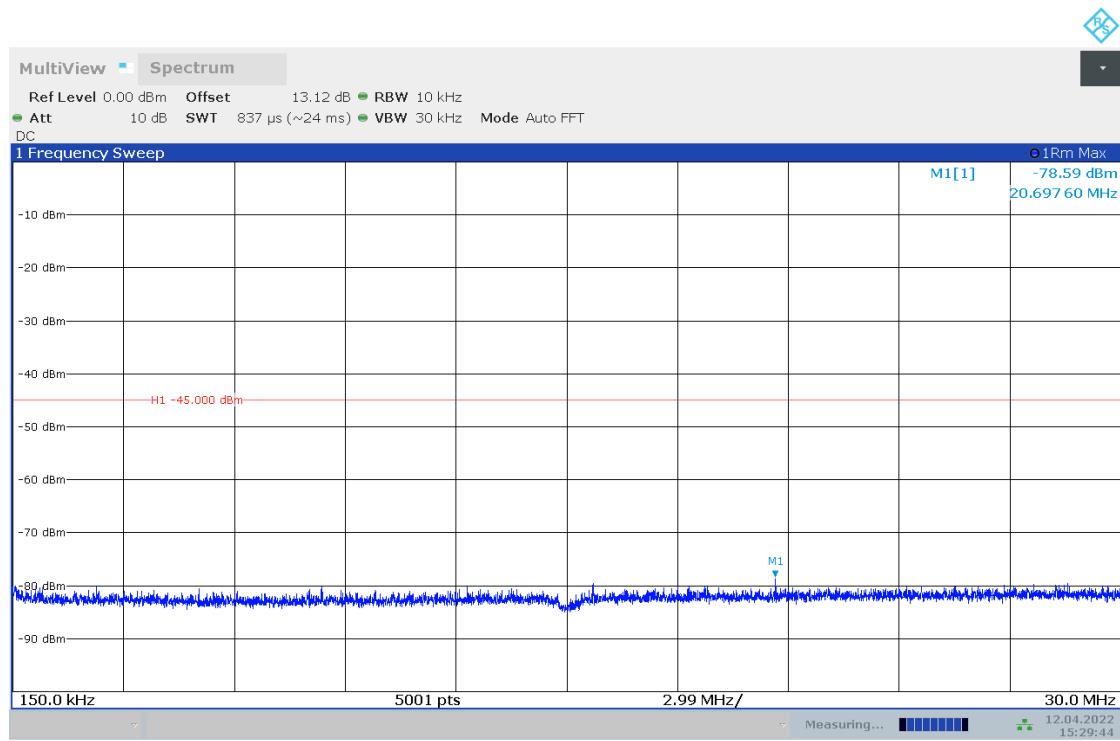


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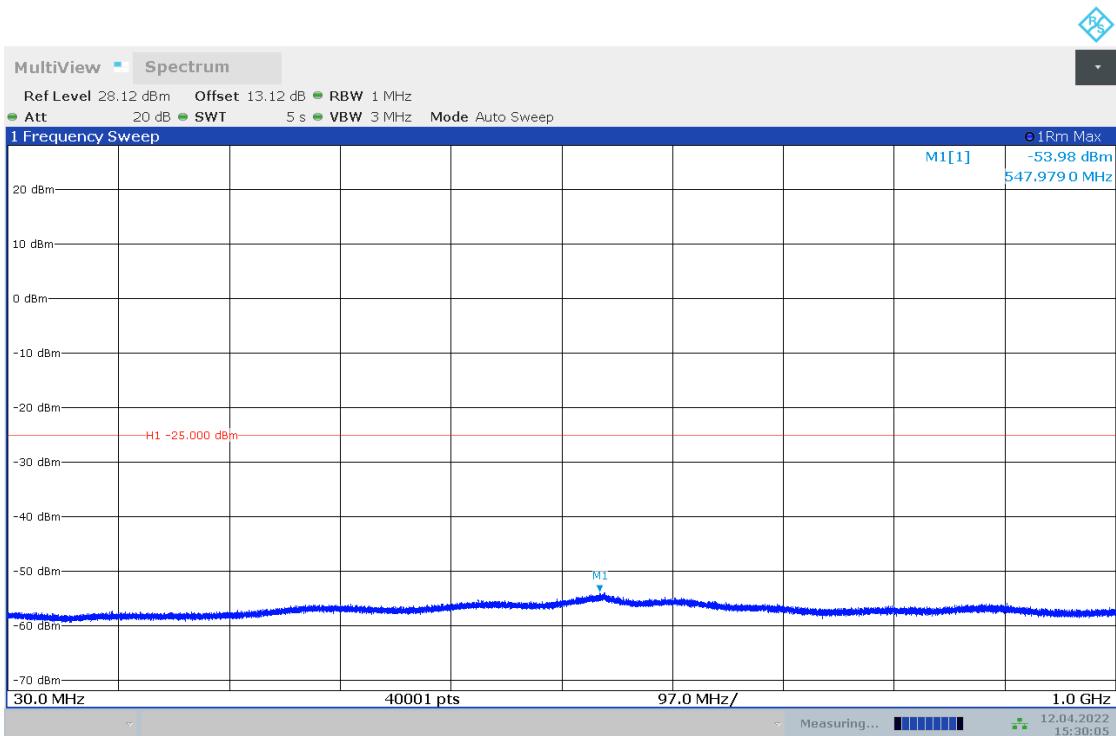
4.2.5 TM1_HCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0



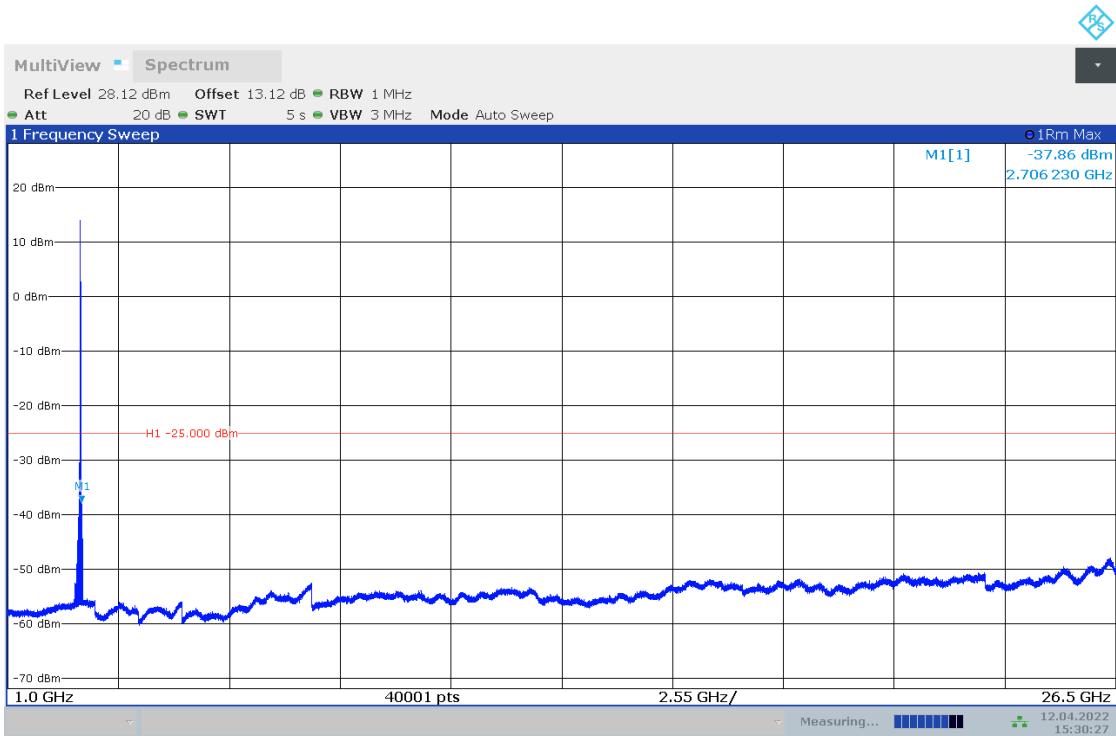
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15:29:44 12.04.2022

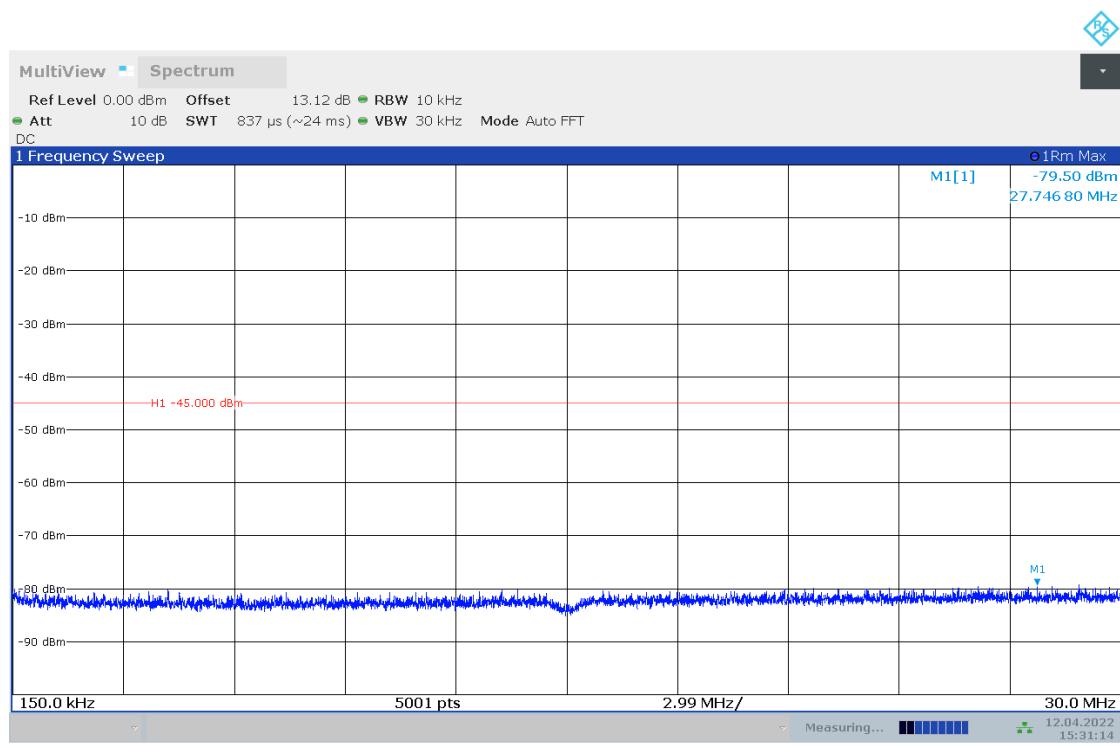
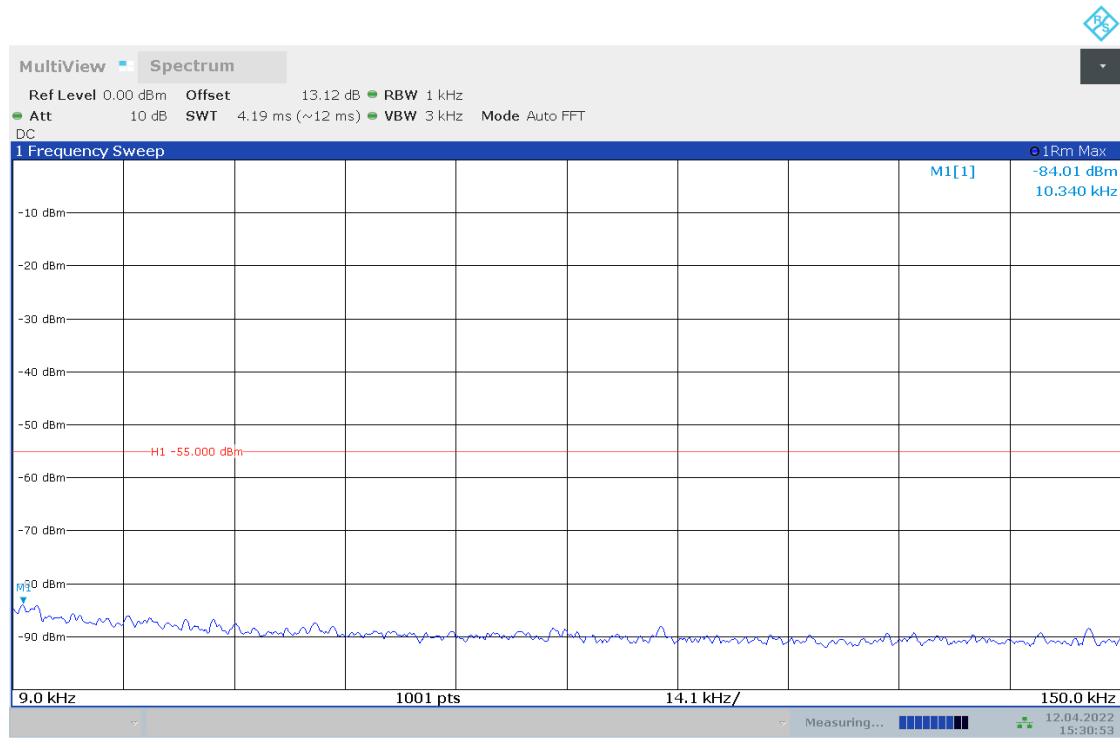


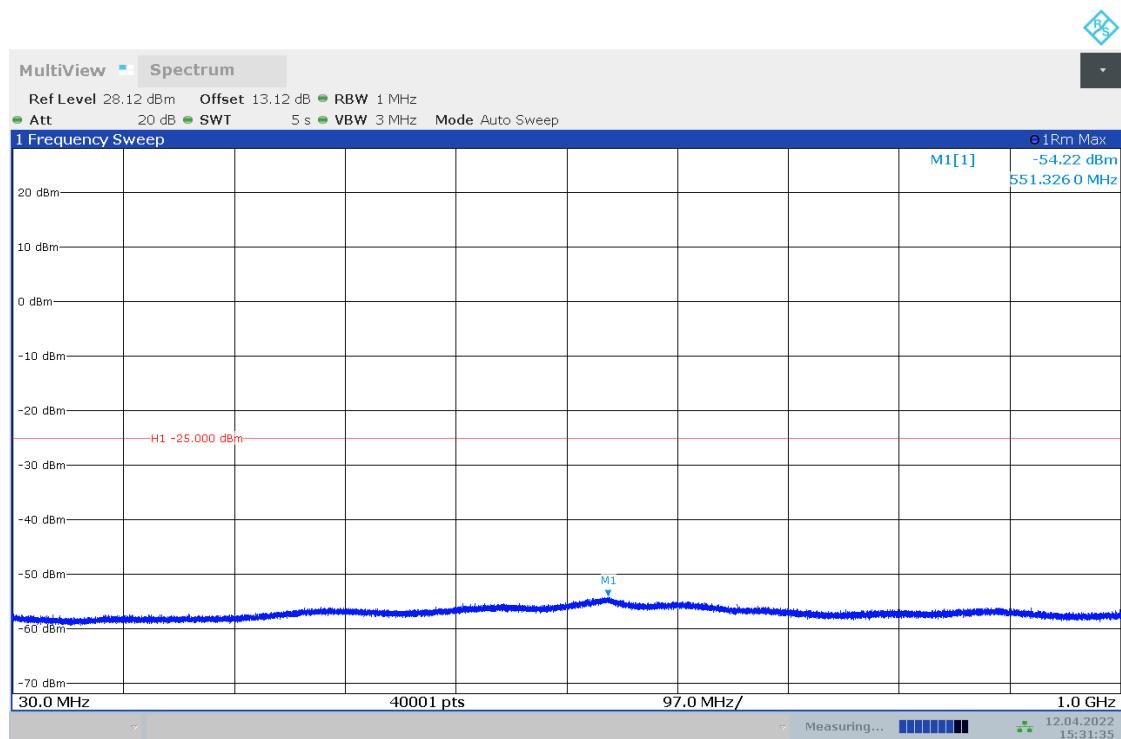
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15:30:27 12.04.2022

4.2.6 TM1_HCH_15MHz+15MHz_PCCRB1#0_SCCRB1#74



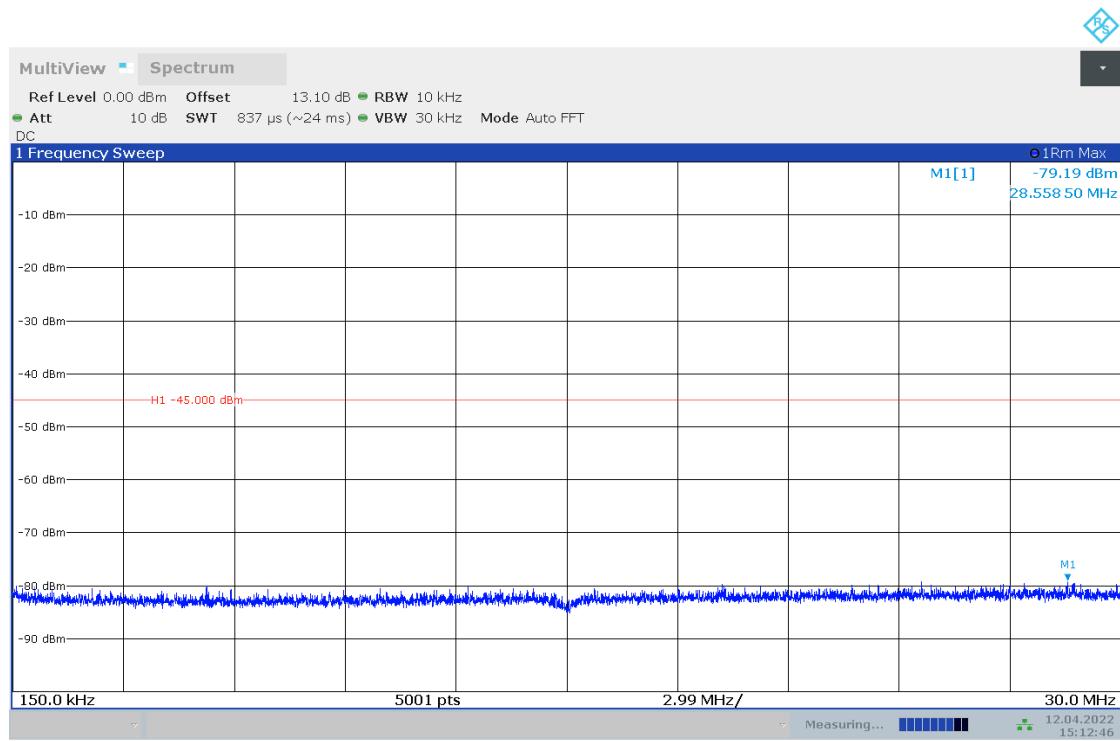
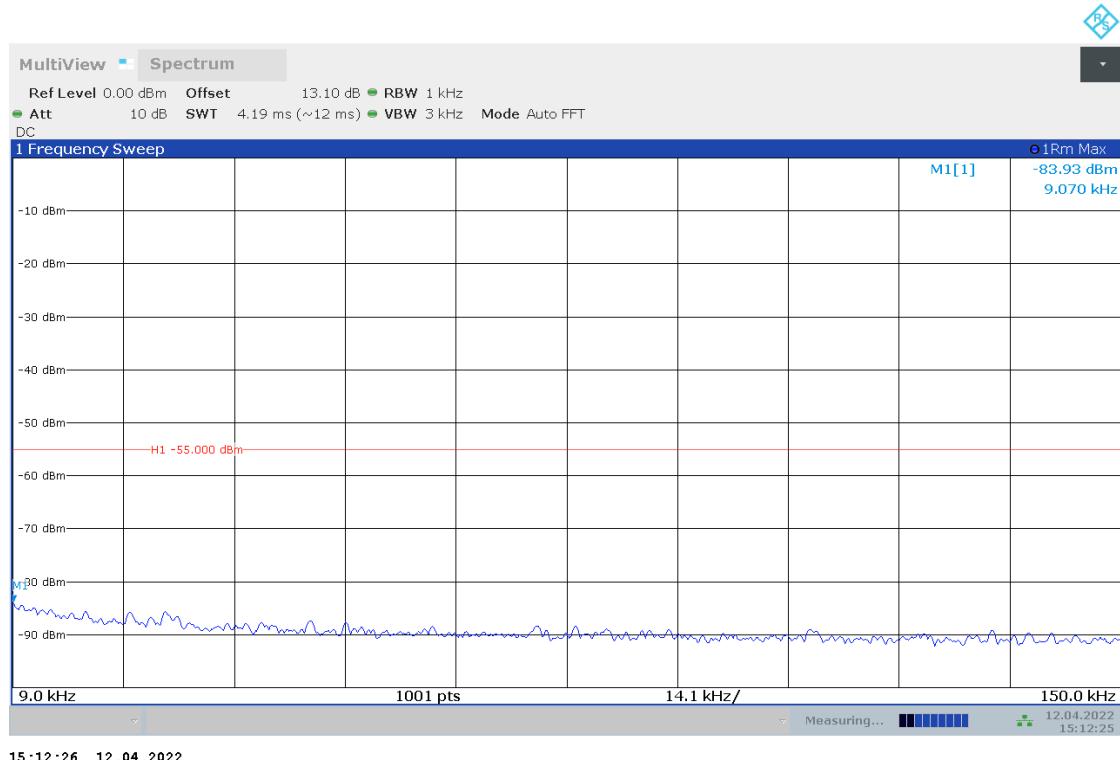


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15:31:57 12.04.2022

4.2.7 TM1_LCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



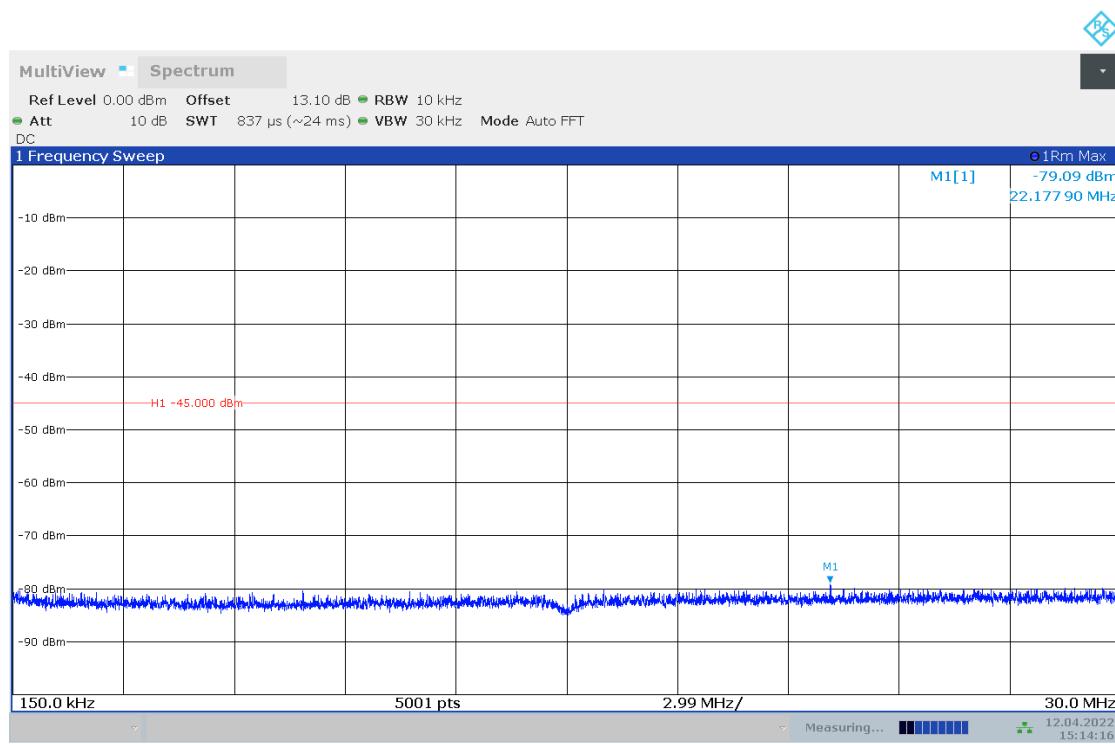
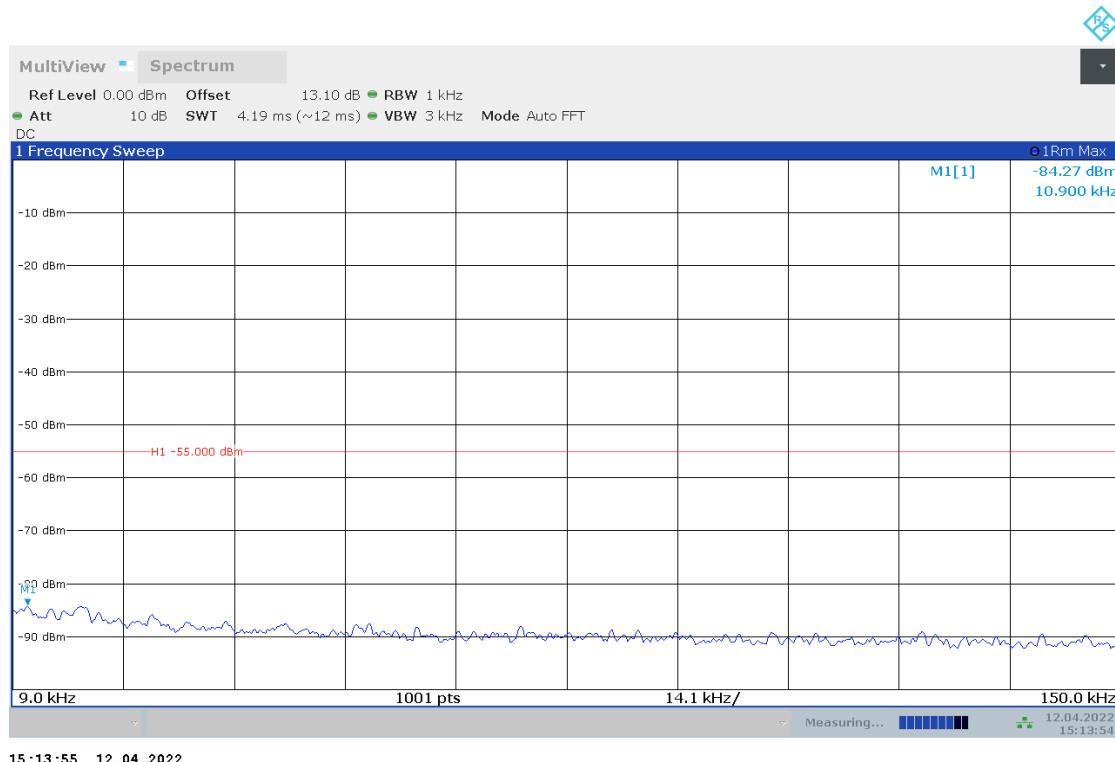


15:13:08 12.04.2022



15:13:29 12.04.2022

4.2.8 TM1_LCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



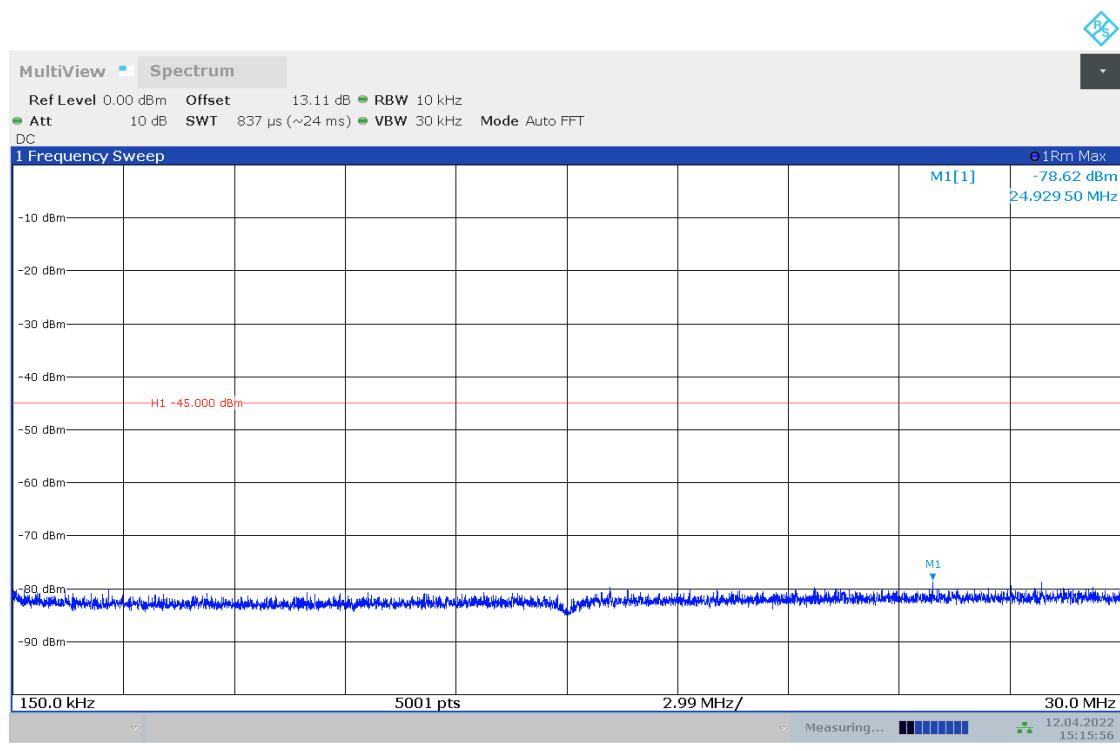
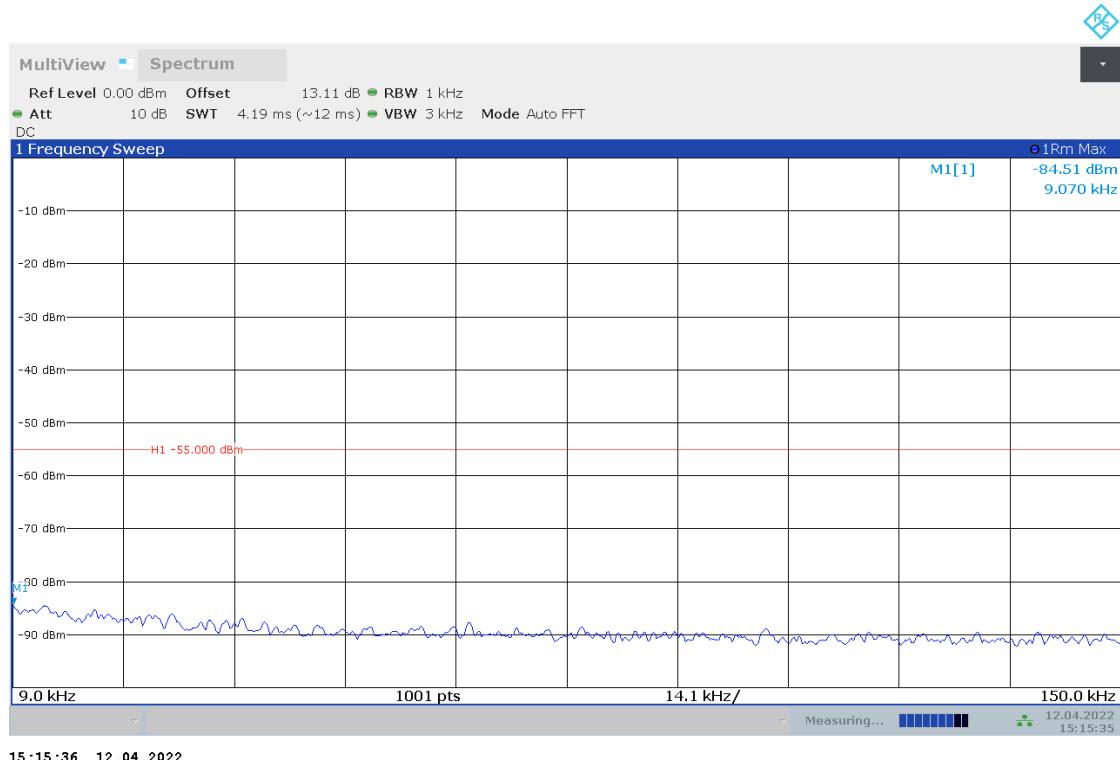


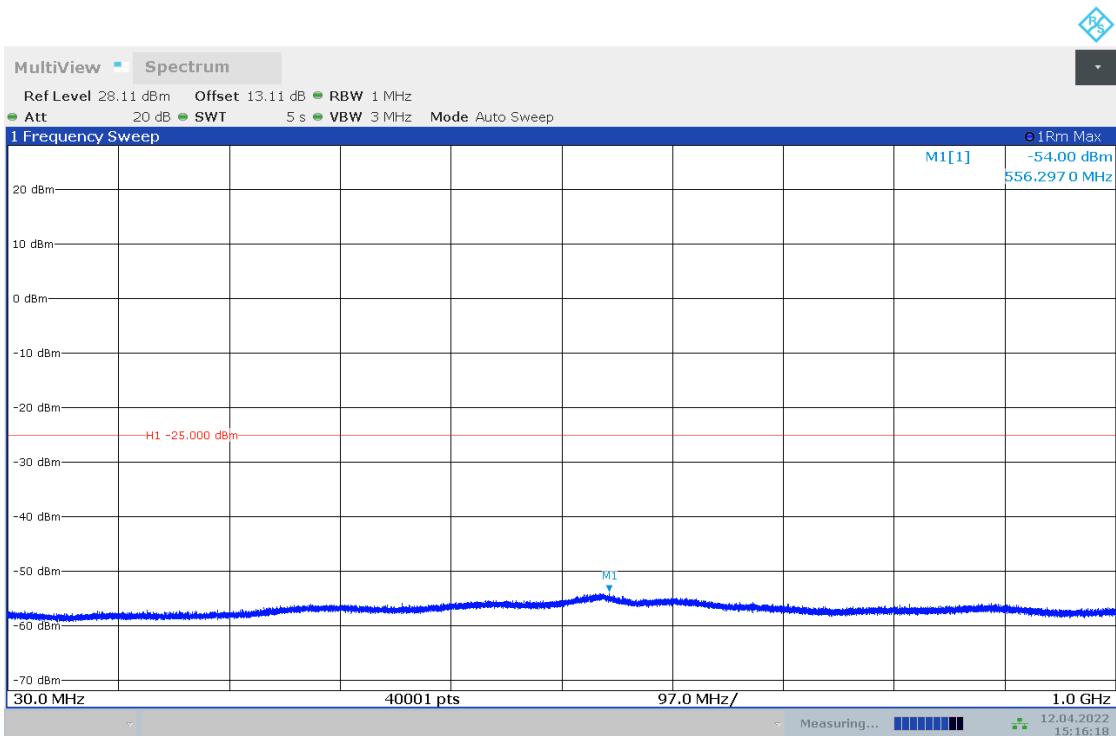
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15:14:59 12.04.2022

4.2.9 TM1_MCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



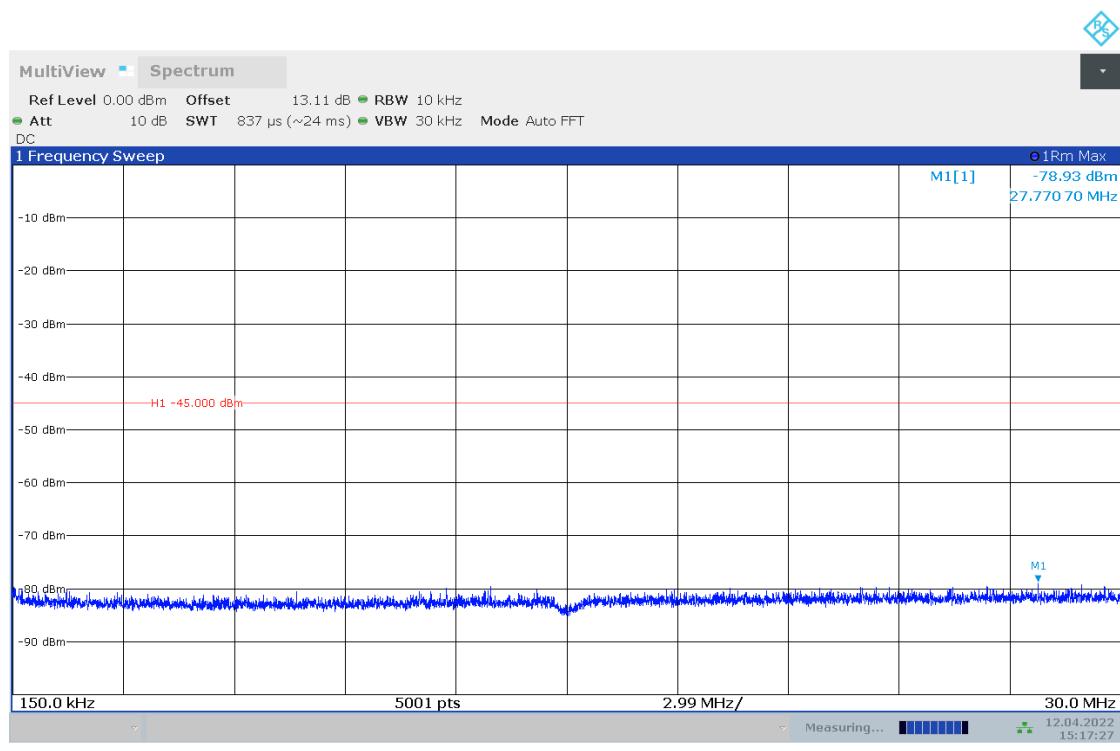
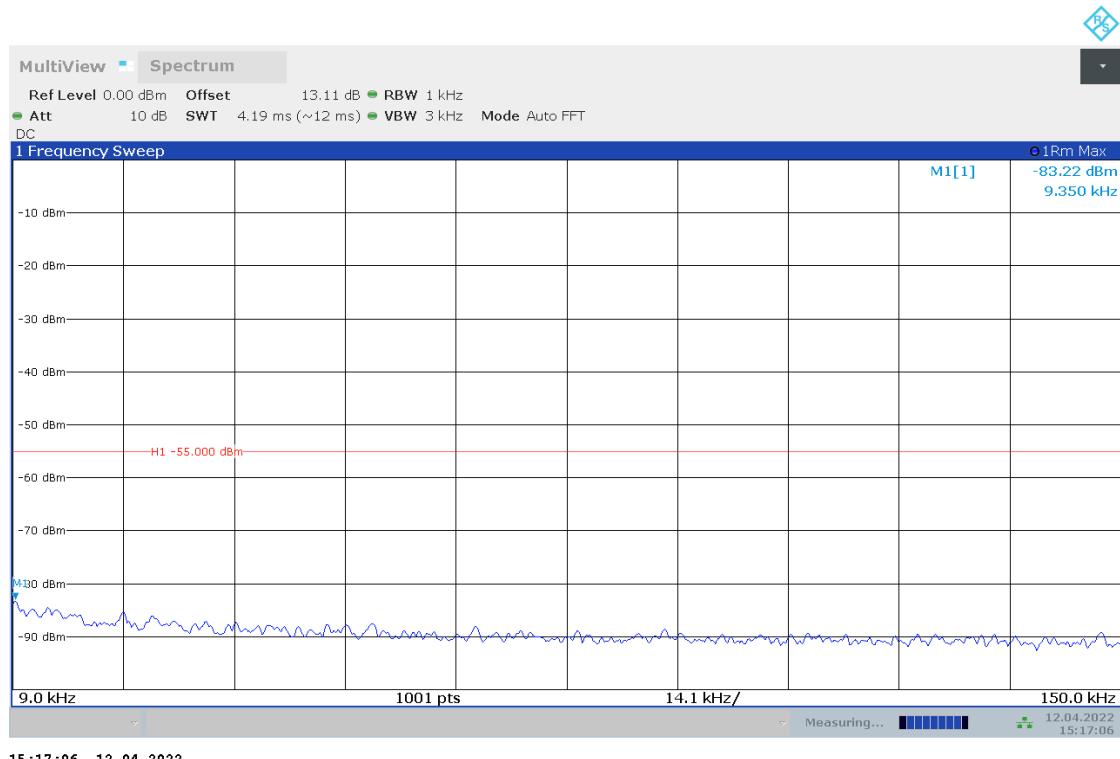


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15:16:40 12.04.2022

4.2.10 TM1_MCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



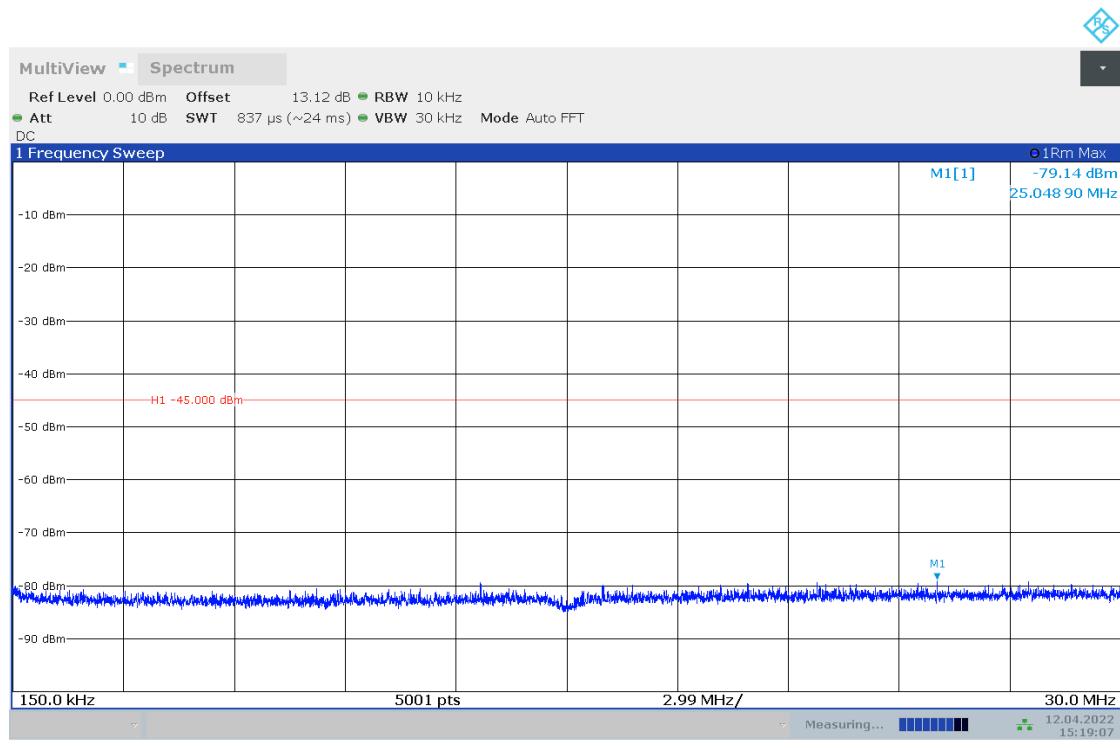
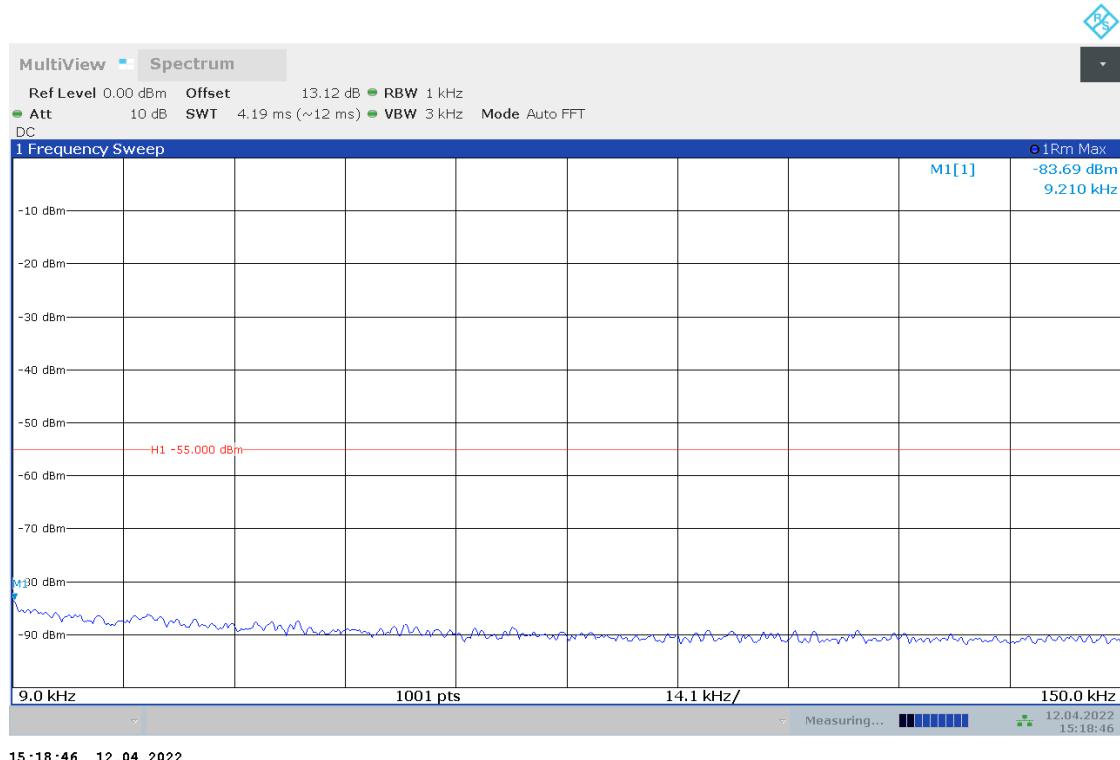


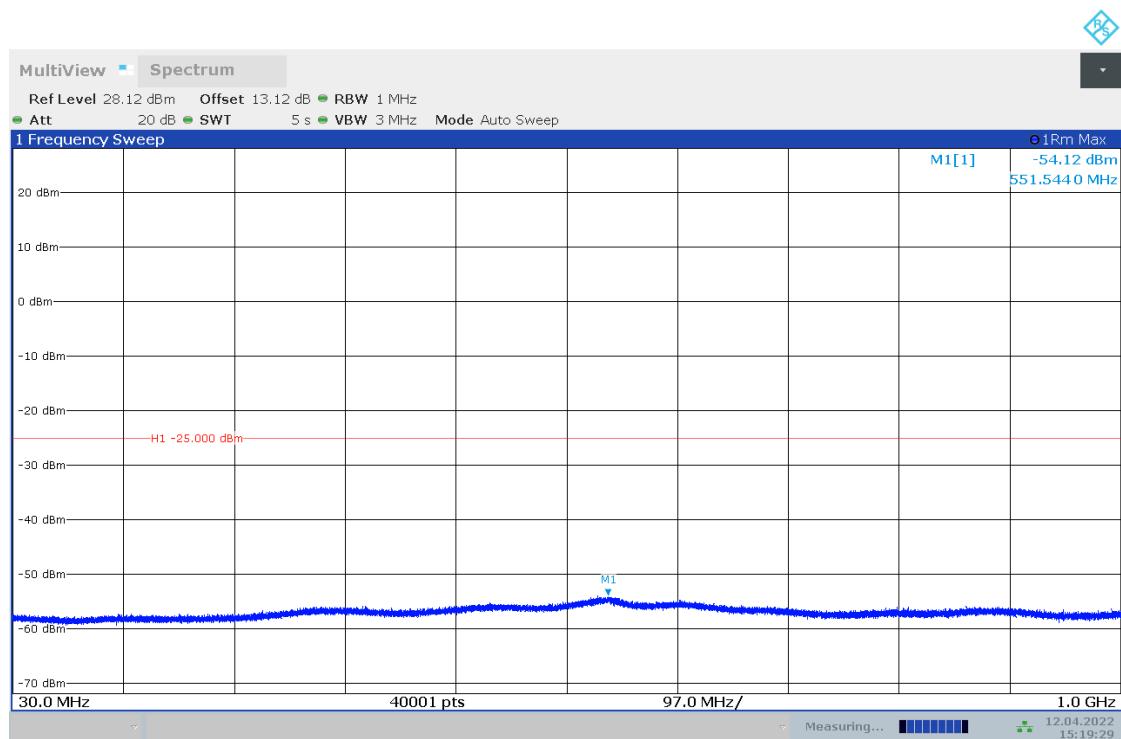
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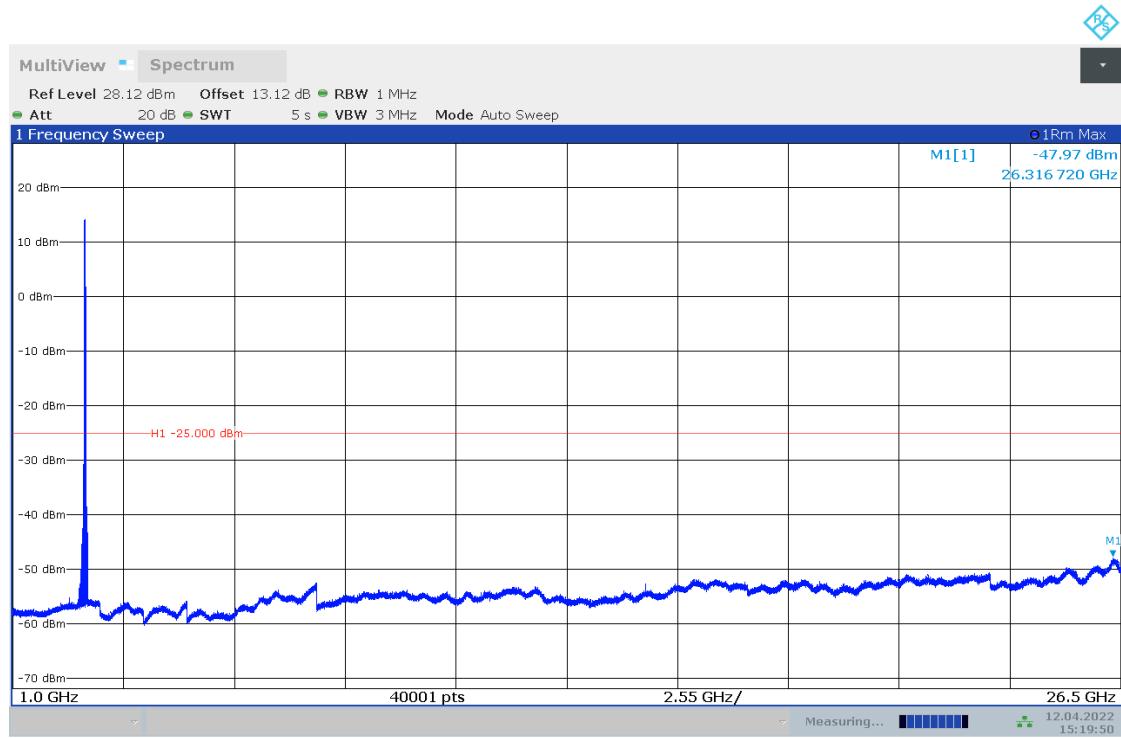
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4.2.11 TM1_HCH_20MHz+20MHz_PCCRB100#0_SCCRB100#0



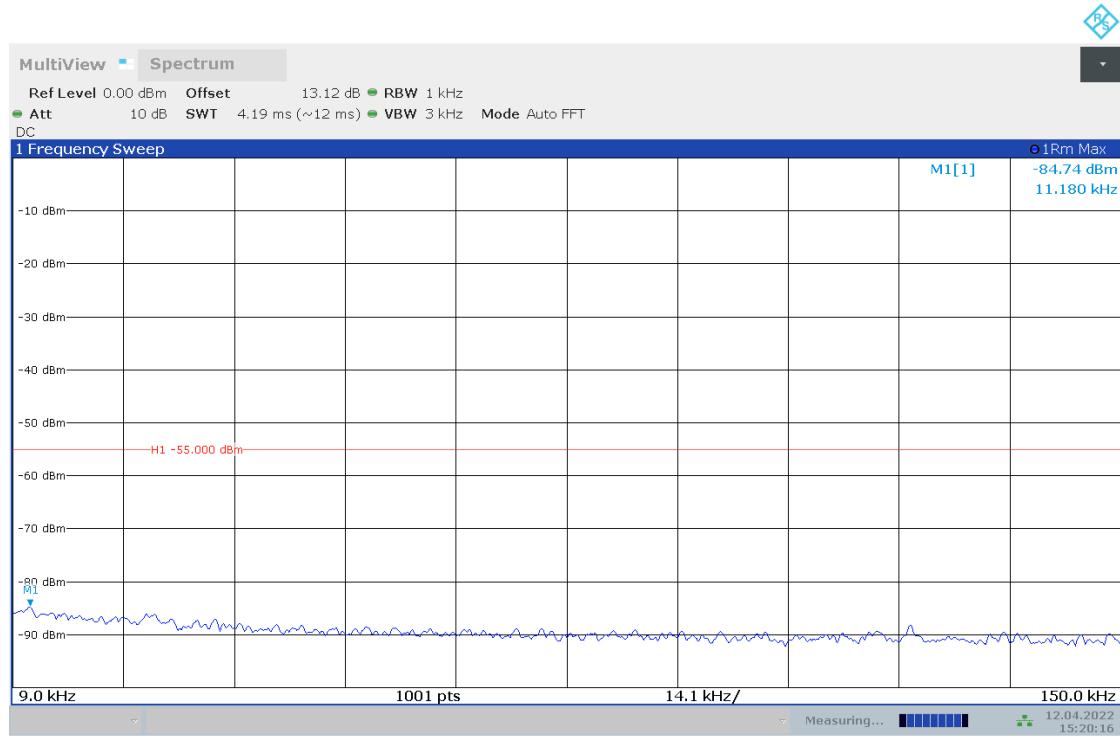


15:19:29 12.04.2022

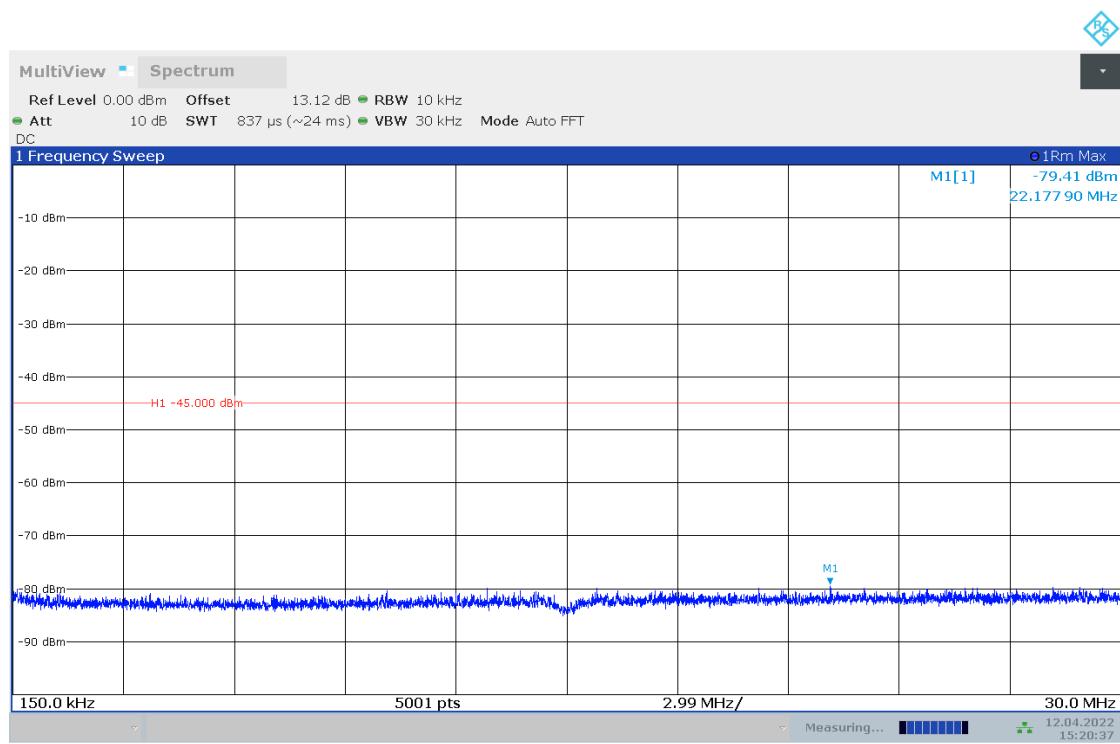


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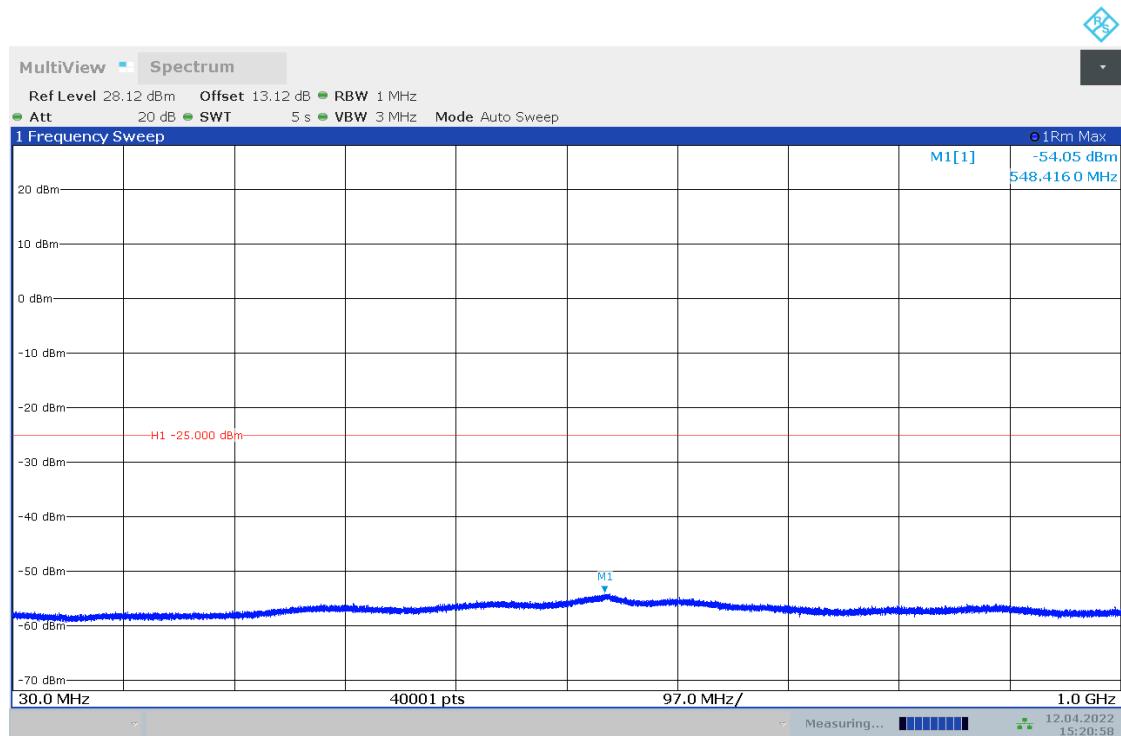
4.2.12 TM1_HCH_20MHz+20MHz_PCCRB1#0_SCCRB1#99



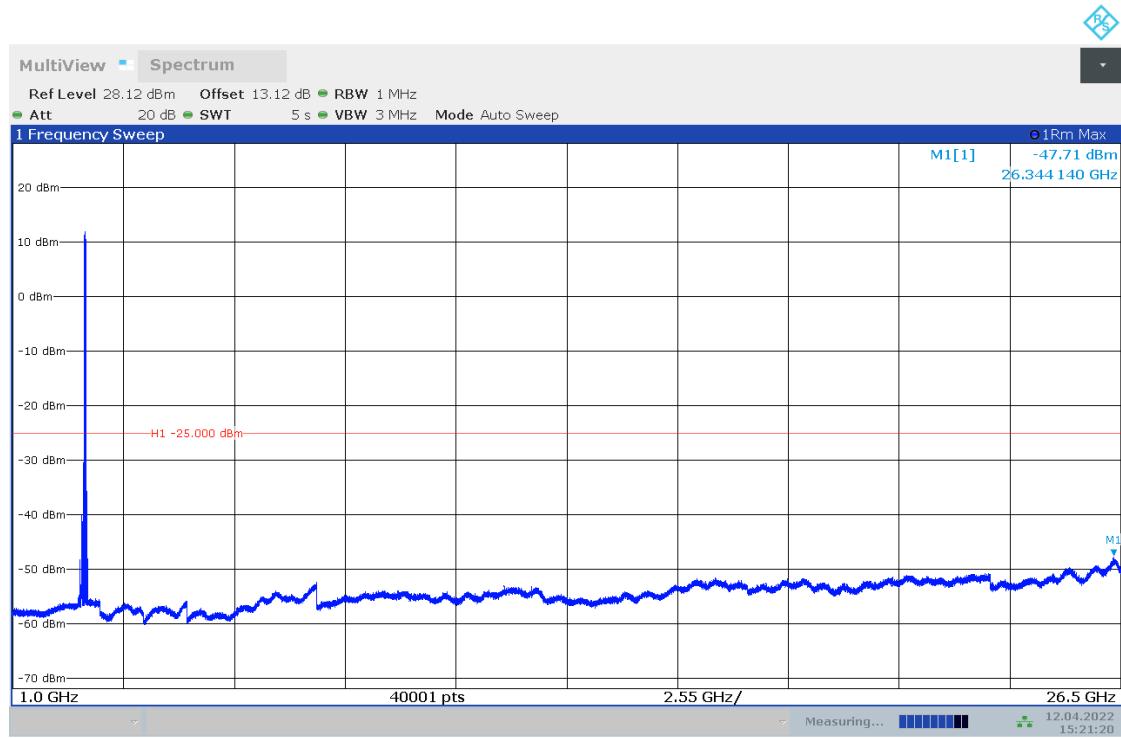
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15:20:37 12.04.2022

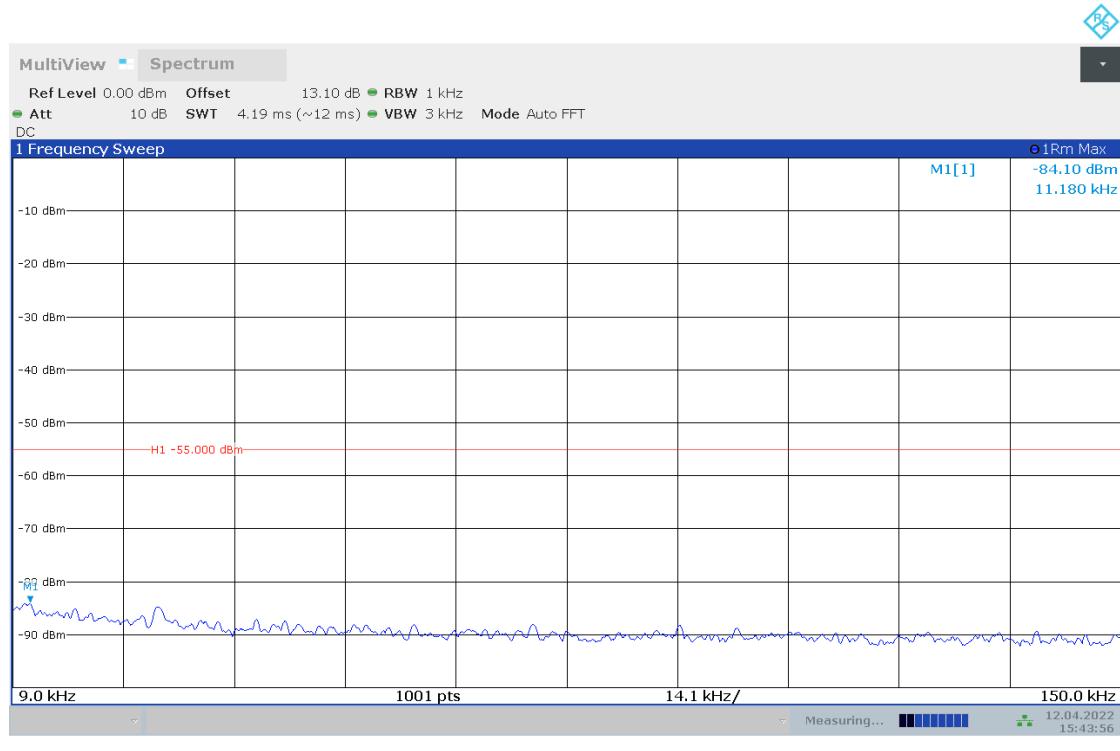


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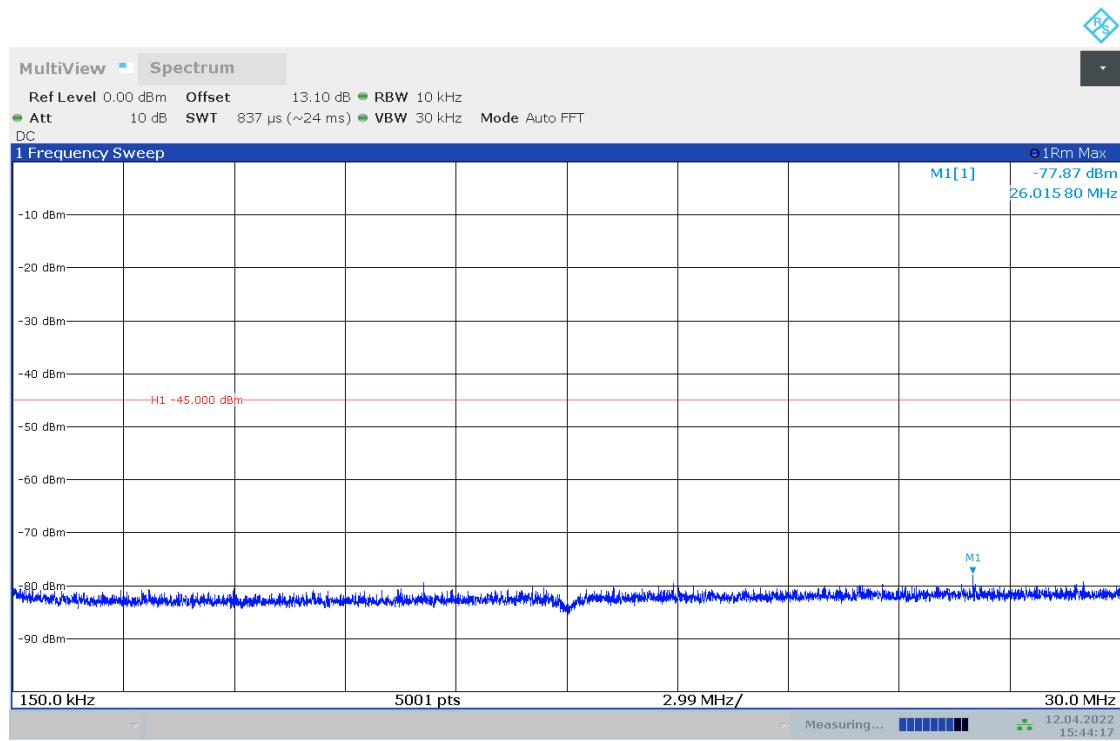


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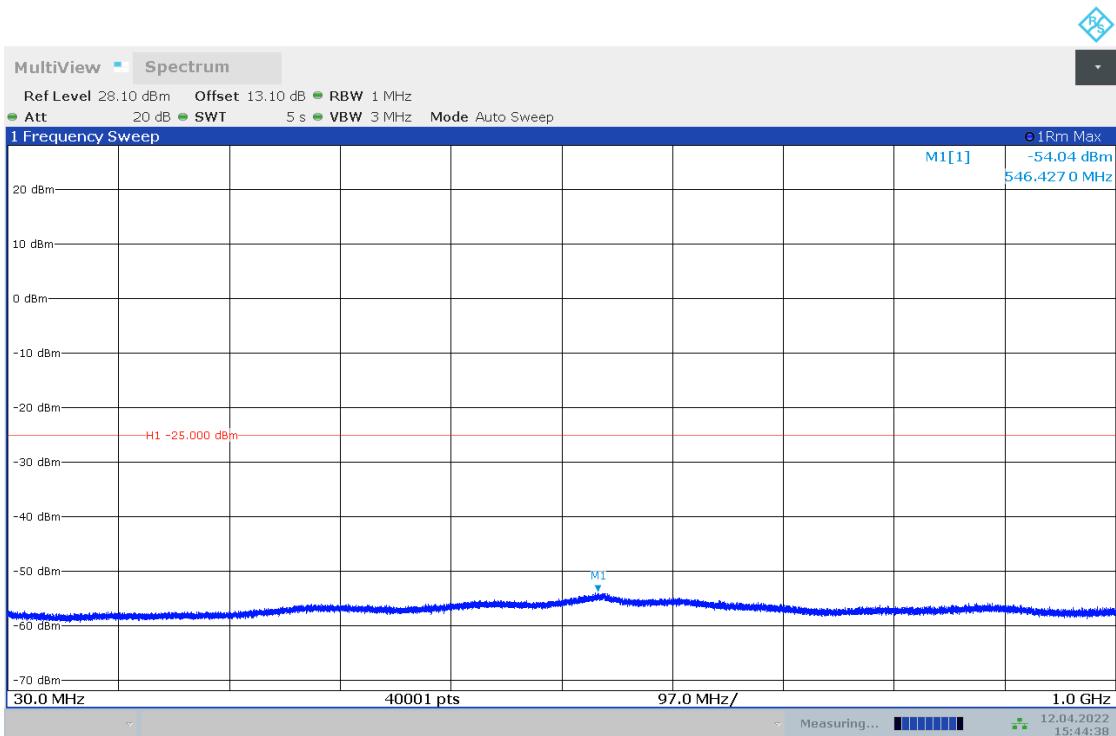
4.2.13 TM2_LCH_15MHz+15MHz_PCCRB75#0_SCCRB75#0



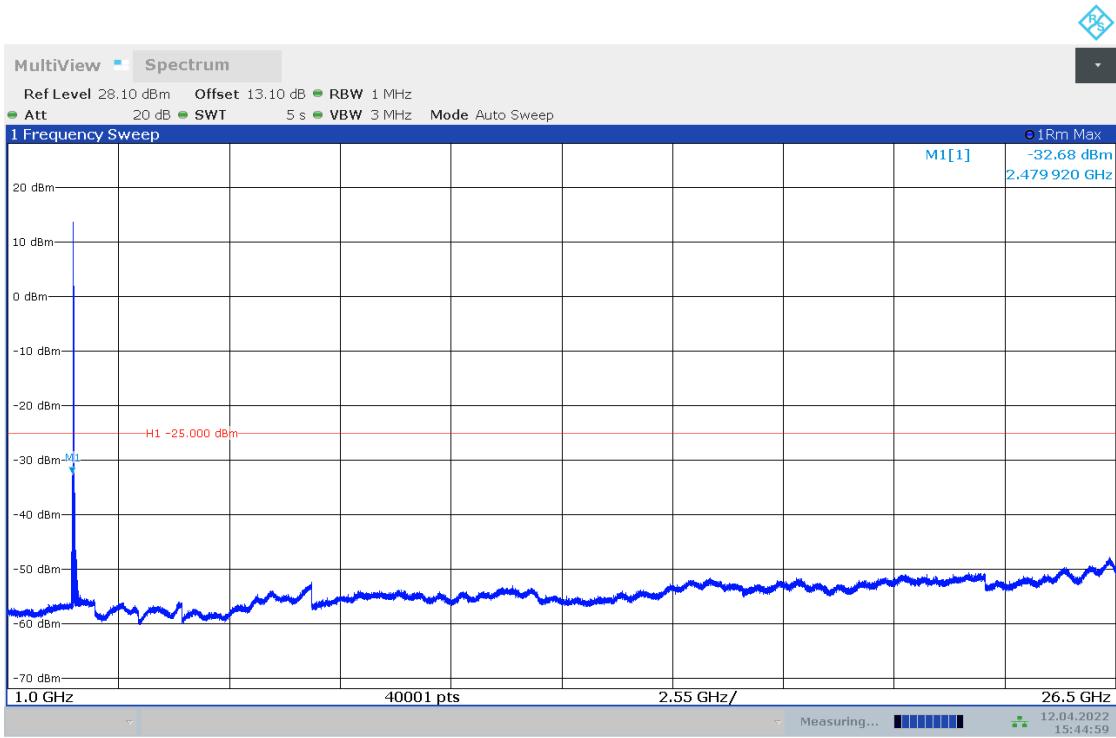
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15:44:18 12.04.2022



15:44:39 12.04.2022



15:45:00 12.04.2022