

Appendix for LTE Band 25

Model: LGE-NX9

BTL-FCCP-2-2203G019

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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	Test RB	Modulation	Measured [dBm]	Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
TM1	1.4	LCH	RB6#0	QPSK	23.31	-3.2	20.11	33	PASS
			RB1#0	QPSK	24.31	-3.2	21.11	33	PASS
			RB1#5	QPSK	24.23	-3.2	21.03	33	PASS
		MCH	RB6#0	QPSK	23.33	-3.2	20.13	33	PASS
			RB1#0	QPSK	24.32	-3.2	21.12	33	PASS
			RB1#5	QPSK	24.30	-3.2	21.10	33	PASS
		HCH	RB6#0	QPSK	23.25	-3.2	20.05	33	PASS
			RB1#0	QPSK	24.16	-3.2	20.96	33	PASS
			RB1#5	QPSK	24.18	-3.2	20.98	33	PASS
	5	LCH	RB25#0	QPSK	23.37	-3.2	20.17	33	PASS
			RB1#0	QPSK	24.38	-3.2	21.18	33	PASS
			RB1#24	QPSK	24.32	-3.2	21.12	33	PASS
		MCH	RB25#0	QPSK	23.31	-3.2	20.11	33	PASS
			RB1#0	QPSK	24.43	-3.2	21.23	33	PASS
			RB1#24	QPSK	24.25	-3.2	21.05	33	PASS
		HCH	RB25#0	QPSK	23.27	-3.2	20.07	33	PASS
			RB1#0	QPSK	24.20	-3.2	21.00	33	PASS
			RB1#24	QPSK	24.20	-3.2	21.00	33	PASS
	20	LCH	RB100#0	QPSK	23.23	-3.2	20.03	33	PASS
			RB1#0	QPSK	24.06	-3.2	20.86	33	PASS
			RB1#99	QPSK	24.08	-3.2	20.88	33	PASS
		MCH	RB100#0	QPSK	23.13	-3.2	19.93	33	PASS
			RB1#0	QPSK	24.07	-3.2	20.87	33	PASS
			RB1#99	QPSK	24.05	-3.2	20.85	33	PASS
		HCH	RB100#0	QPSK	23.16	-3.2	19.96	33	PASS
			RB1#0	QPSK	24.03	-3.2	20.83	33	PASS
			RB1#99	QPSK	23.86	-3.2	20.66	33	PASS

Effective (Isotropic) Radiated Power of Transmitter									
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Measured [dBm]	Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
TM2	1.4	LCH	RB6#0	16QAM	22.22	-3.2	19.02	33	PASS
			RB1#0	16QAM	23.67	-3.2	20.47	33	PASS
			RB1#5	16QAM	23.48	-3.2	20.28	33	PASS
		MCH	RB6#0	16QAM	22.29	-3.2	19.09	33	PASS
			RB1#0	16QAM	23.53	-3.2	20.33	33	PASS
			RB1#5	16QAM	23.70	-3.2	20.50	33	PASS
		HCH	RB6#0	16QAM	22.21	-3.2	19.01	33	PASS
			RB1#0	16QAM	23.36	-3.2	20.16	33	PASS
			RB1#5	16QAM	23.33	-3.2	20.13	33	PASS
	5	LCH	RB25#0	16QAM	22.35	-3.2	19.15	33	PASS
			RB1#0	16QAM	23.75	-3.2	20.55	33	PASS
			RB1#24	16QAM	23.70	-3.2	20.50	33	PASS
		MCH	RB25#0	16QAM	22.35	-3.2	19.15	33	PASS
			RB1#0	16QAM	23.70	-3.2	20.50	33	PASS
			RB1#24	16QAM	23.76	-3.2	20.56	33	PASS
		HCH	RB25#0	16QAM	22.25	-3.2	19.05	33	PASS
			RB1#0	16QAM	23.63	-3.2	20.43	33	PASS
			RB1#24	16QAM	23.56	-3.2	20.36	33	PASS
	20	LCH	RB100#0	16QAM	22.24	-3.2	19.04	33	PASS
			RB1#0	16QAM	23.69	-3.2	20.49	33	PASS
			RB1#99	16QAM	23.52	-3.2	20.32	33	PASS
		MCH	RB100#0	16QAM	22.10	-3.2	18.90	33	PASS
			RB1#0	16QAM	23.49	-3.2	20.29	33	PASS
			RB1#99	16QAM	23.36	-3.2	20.16	33	PASS
		HCH	RB100#0	16QAM	22.17	-3.2	18.97	33	PASS
			RB1#0	16QAM	23.34	-3.2	20.14	33	PASS
			RB1#99	16QAM	23.26	-3.2	20.06	33	PASS

2. APPENDIX B - PEAK-TO-AVERAGE RATIO

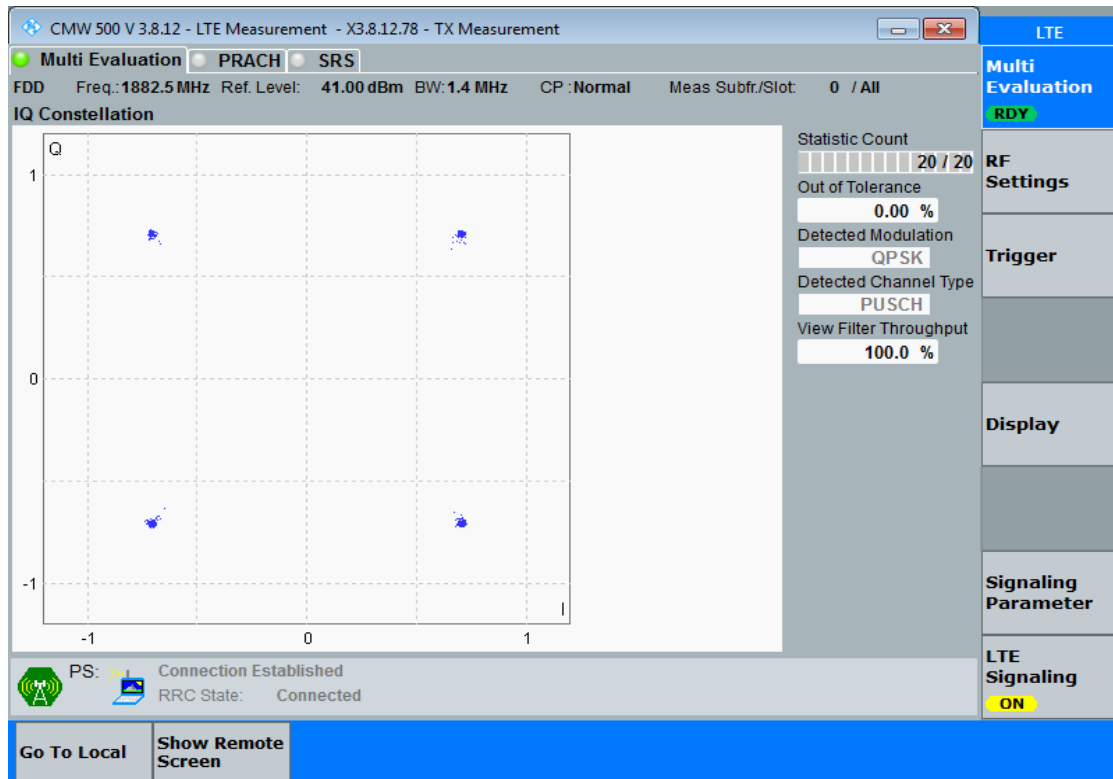
2.1 TEST RESULTS

Peak-to-Average Ratio							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Measured [dBm]	Limit [dBm]	Verdict
TM1	1.4	MCH	RB6#0	QPSK	4.71	13	PASS
			RB1#0	QPSK	3.63	13	PASS
			RB1#5	QPSK	3.63	13	PASS
	5		RB25#0	QPSK	5.30	13	PASS
			RB1#0	QPSK	3.60	13	PASS
			RB1#24	QPSK	3.64	13	PASS
	20		RB100#0	QPSK	5.48	13	PASS
			RB1#0	QPSK	3.65	13	PASS
			RB1#99	QPSK	3.72	13	PASS
TM2	1.4		RB6#0	16QAM	5.49	13	PASS
			RB1#0	16QAM	4.48	13	PASS
			RB1#5	16QAM	4.44	13	PASS
	5		RB25#0	16QAM	6.27	13	PASS
			RB1#0	16QAM	4.38	13	PASS
			RB1#24	16QAM	4.29	13	PASS
	20		RB100#0	16QAM	6.49	13	PASS
			RB1#0	16QAM	4.38	13	PASS
			RB1#99	16QAM	4.35	13	PASS
TM3	1.4		RB6#0	64QAM	6.44	13	PASS
			RB1#0	64QAM	5.23	13	PASS
			RB1#5	64QAM	5.2	13	PASS
	5		RB25#0	64QAM	6.75	13	PASS
			RB1#0	64QAM	5.26	13	PASS
			RB1#24	64QAM	5.12	13	PASS
	20		RB100#0	64QAM	7.31	13	PASS
			RB1#0	64QAM	5.17	13	PASS
			RB1#99	64QAM	5.31	13	PASS

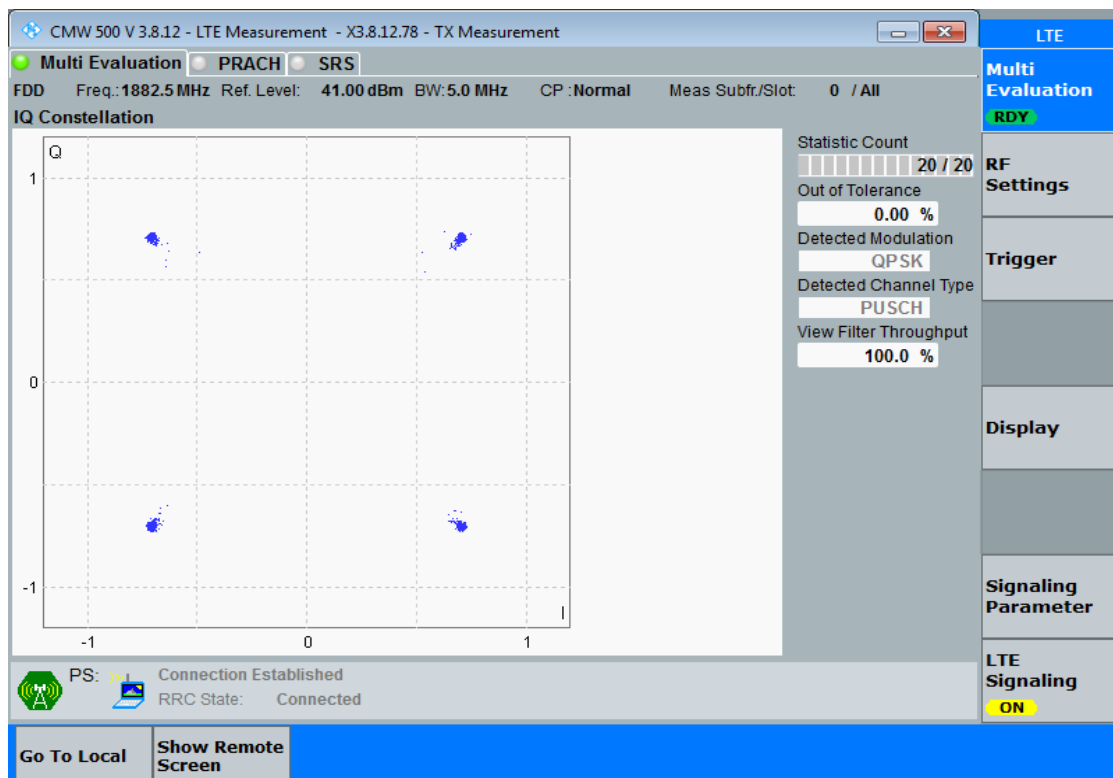
3. APPENDIX C - MODULATION CHARACTERISTICS

3.1 TEST PLOTS

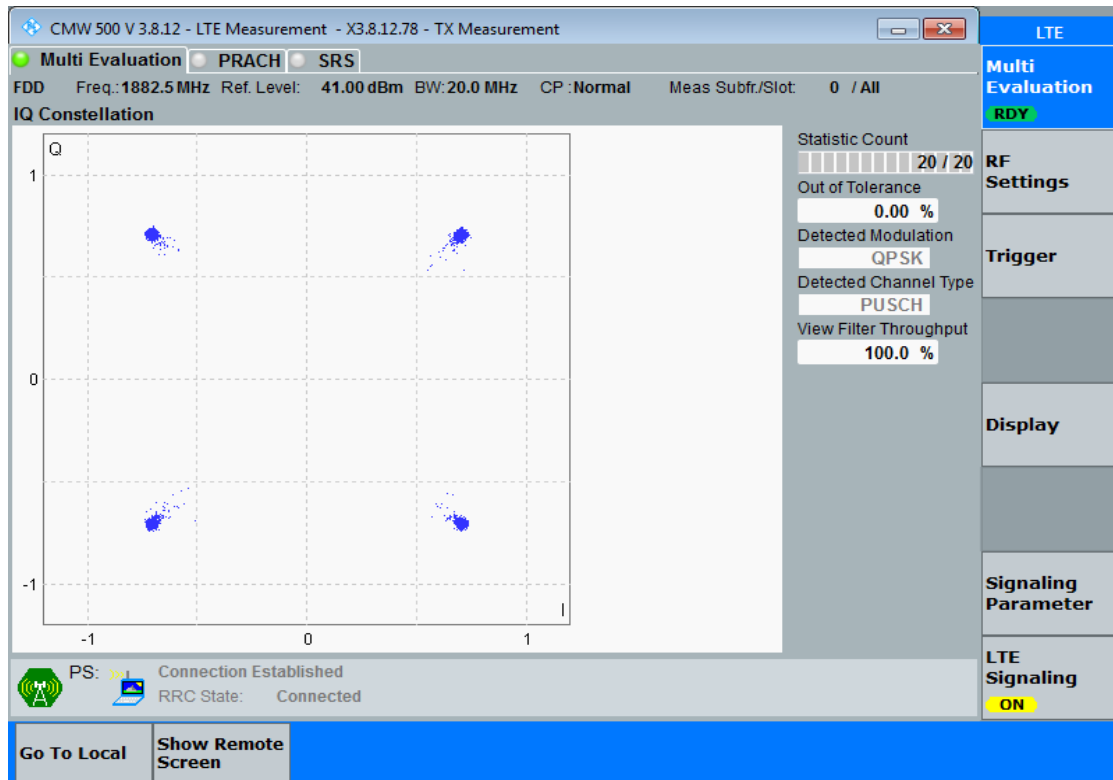
3.1.1 TM1_1.4MHZ_MCH_RB6#0



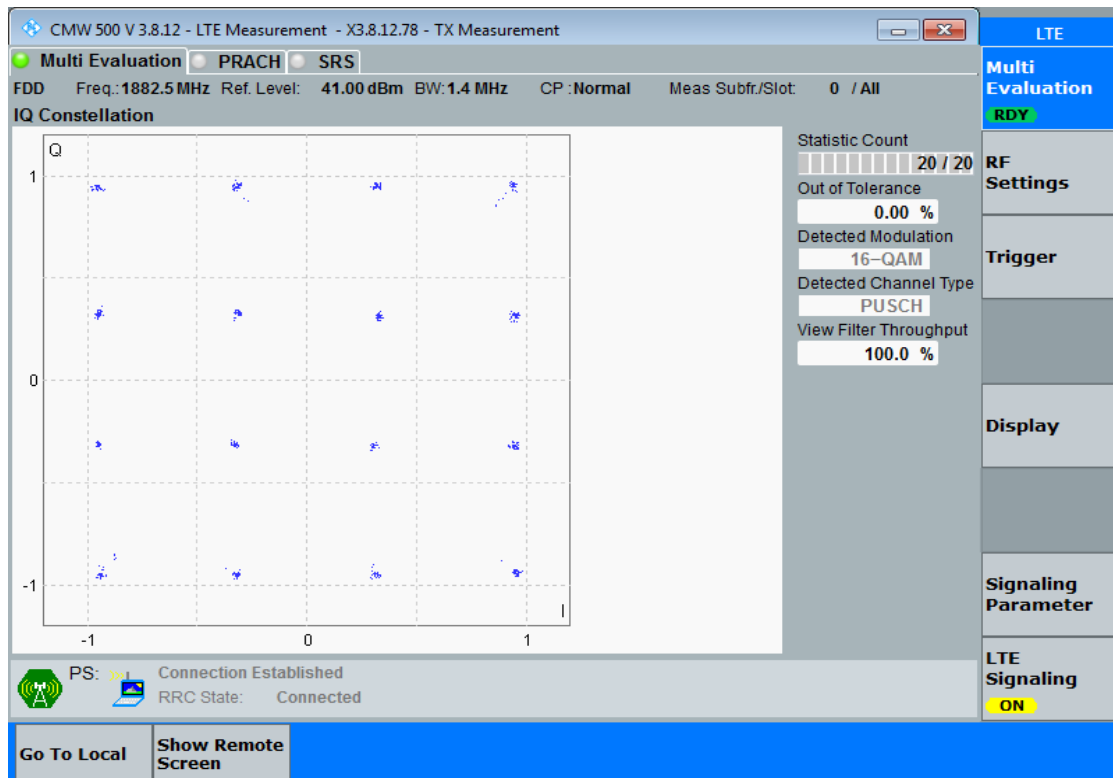
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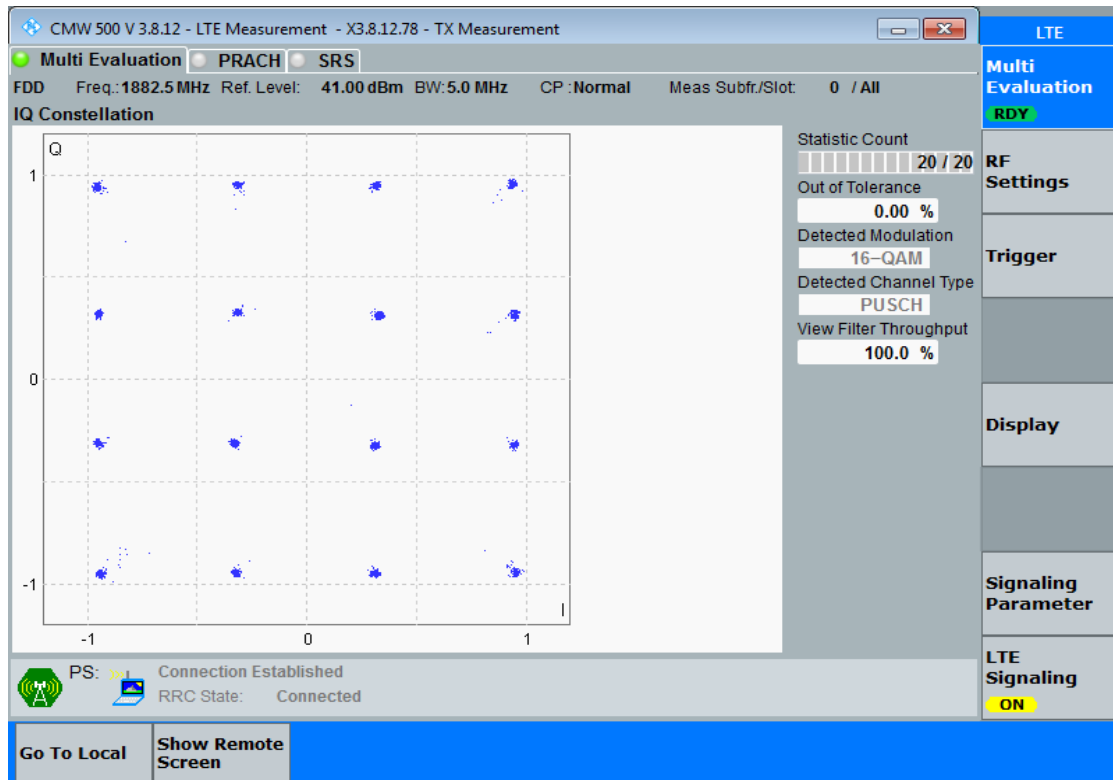
3.1.3 TM1_20MHZ_MCH_RB100#0



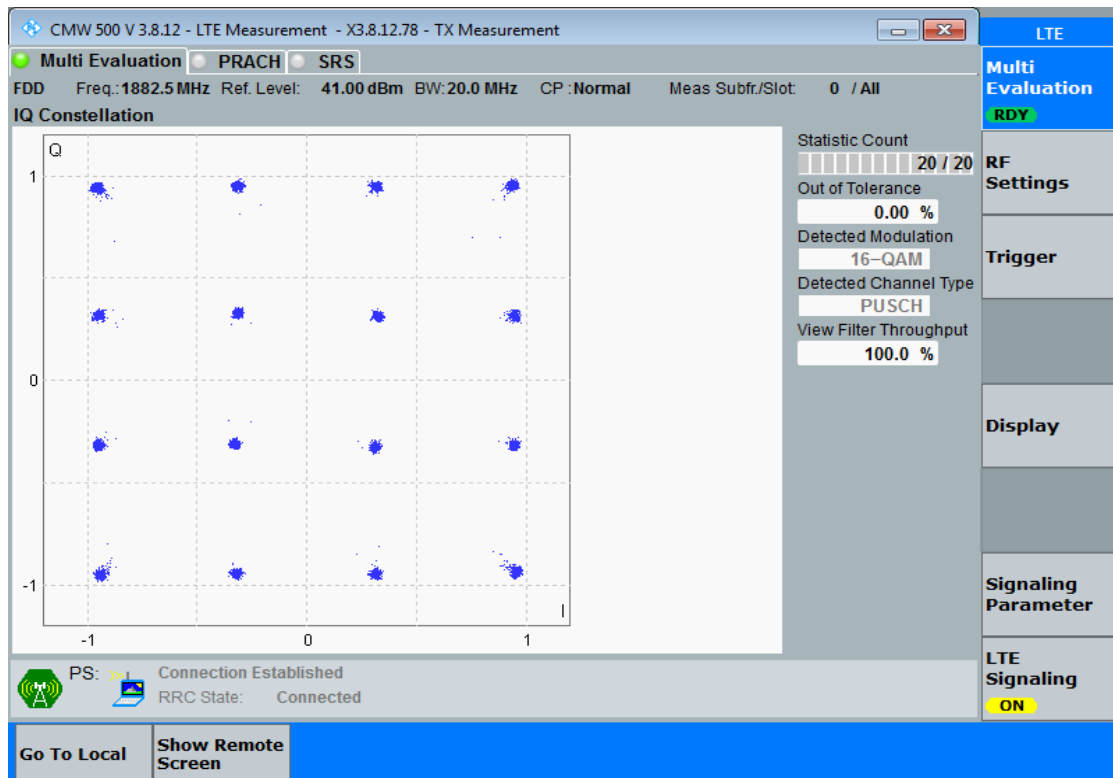
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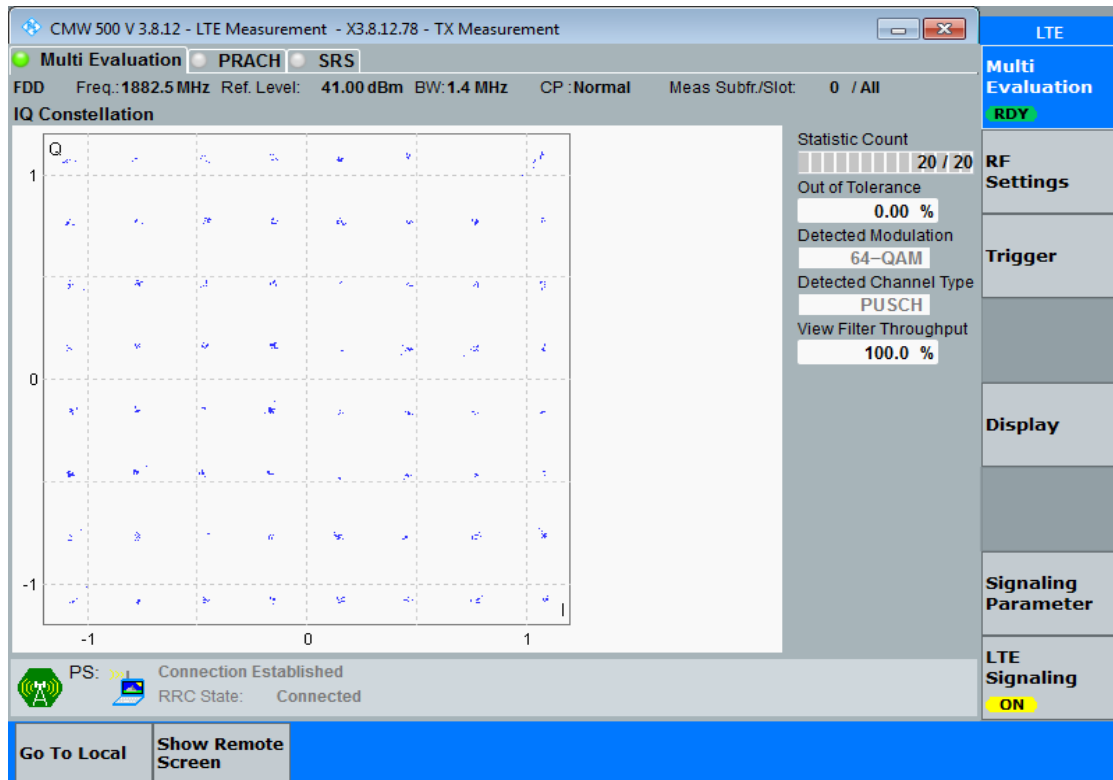
3.1.5 TM2_5MHZ_MCH_RB25#0



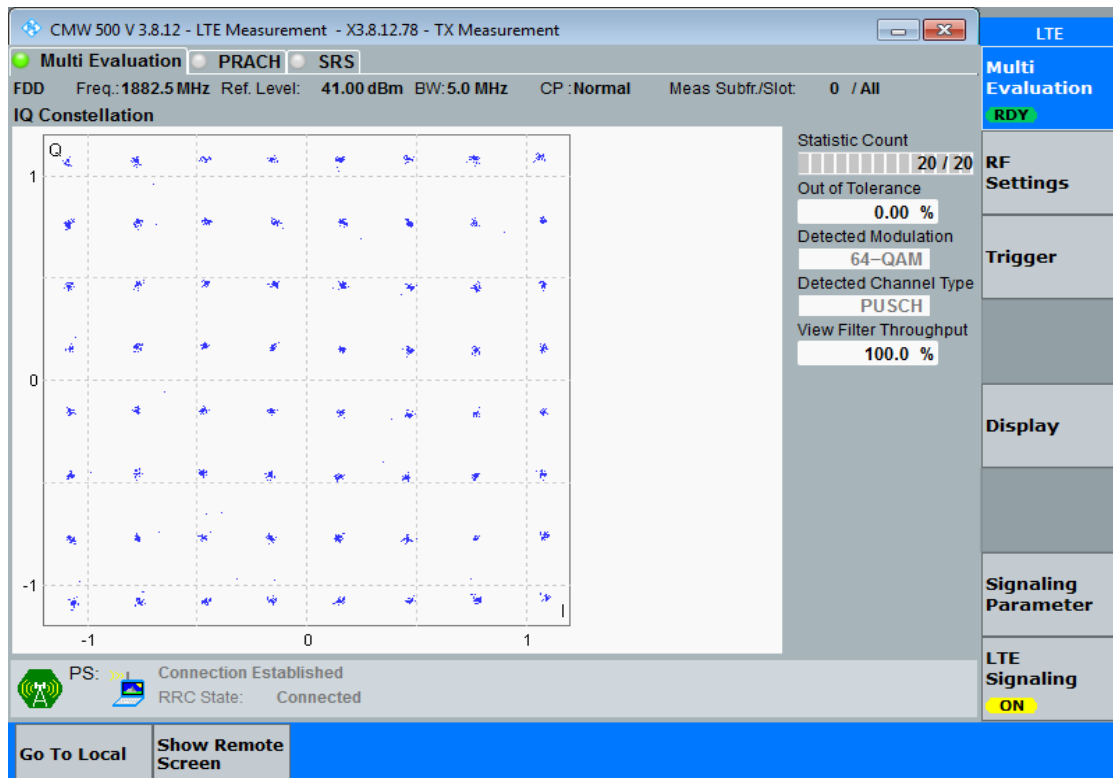
3.1.6 TM2_20MHZ_MCH_RB100#0



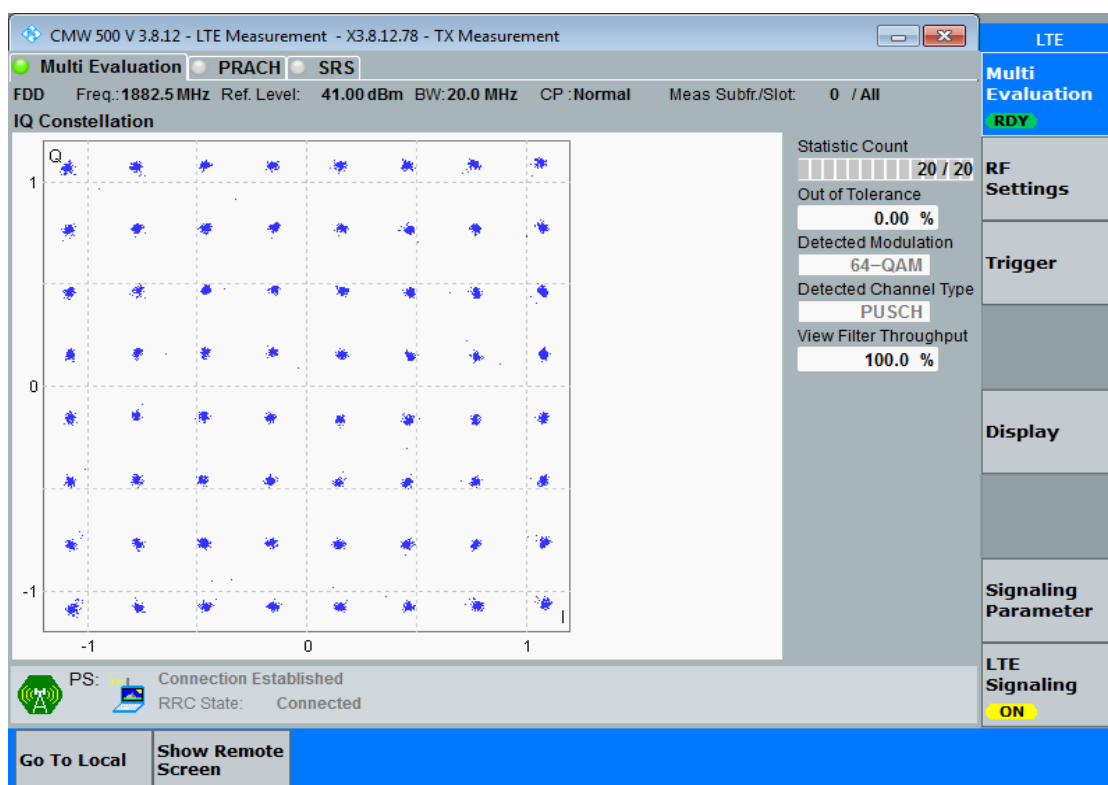
3.1.7 TM3_1.4MHZ_MCH_RB6#0



3.1.8 TM3_5MHZ_MCH_RB25#0



3.1.9 TM3_20MHZ_MCH_RB100#0



4. APPENDIX D - OCCUPIED BANDWIDTH

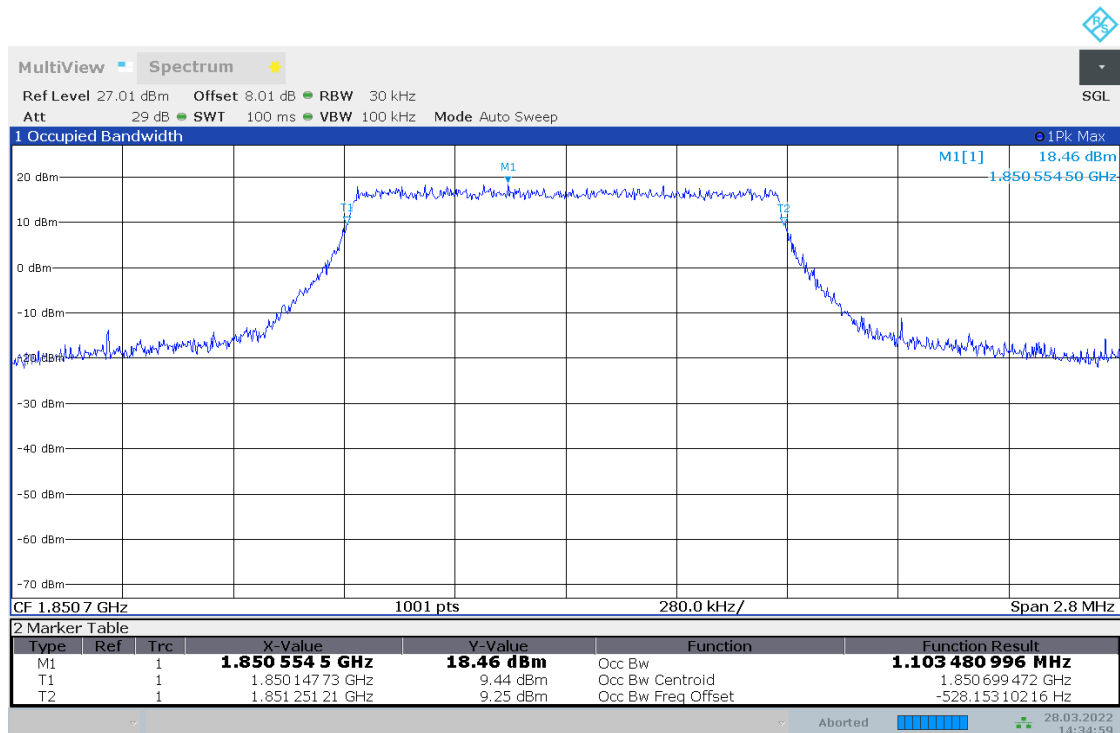
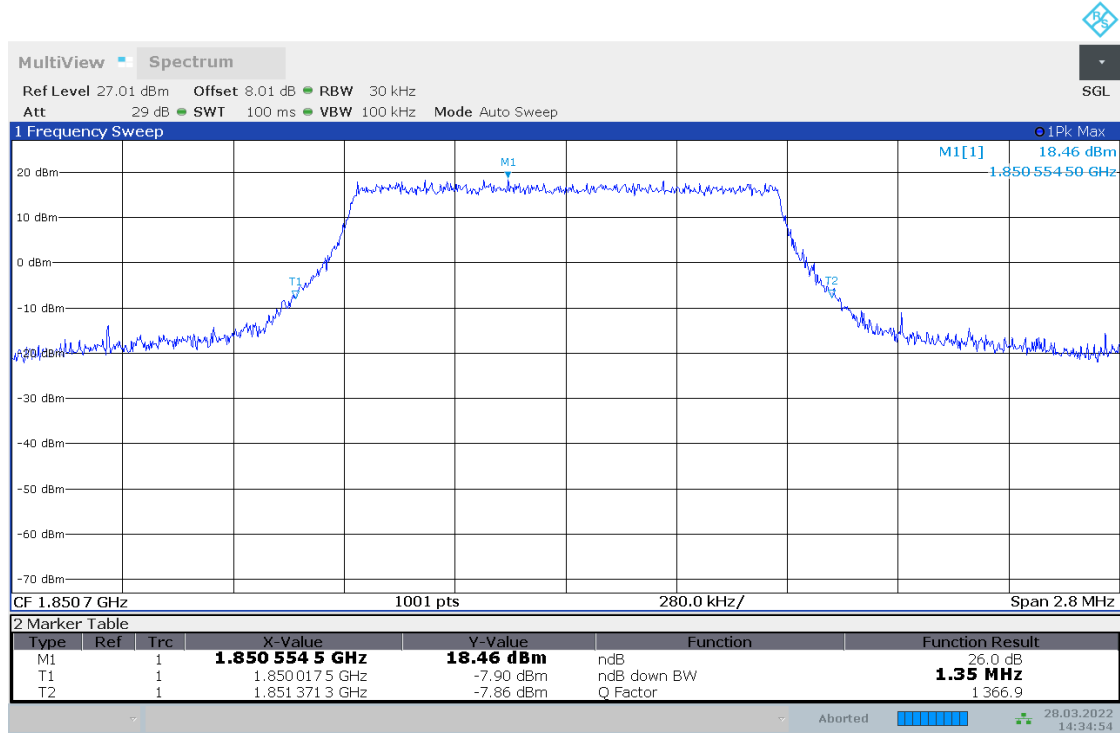
4.1 TEST RESULTS

Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM1	1.4	LCH	RB6#0	QPSK	1.10	1.35	PASS
		MCH	RB6#0	QPSK	1.11	1.36	PASS
		HCH	RB6#0	QPSK	1.10	1.35	PASS
	3	LCH	RB15#0	QPSK	2.71	3.06	PASS
		MCH	RB15#0	QPSK	2.70	3.06	PASS
		HCH	RB15#0	QPSK	2.70	3.03	PASS
	5	LCH	RB25#0	QPSK	4.53	5.18	PASS
		MCH	RB25#0	QPSK	4.52	5.12	PASS
		HCH	RB25#0	QPSK	4.52	5.12	PASS
	10	LCH	RB50#0	QPSK	8.99	10.03	PASS
		MCH	RB50#0	QPSK	9.00	10.05	PASS
		HCH	RB50#0	QPSK	9.01	10.17	PASS
	15	LCH	RB75#0	QPSK	13.51	14.96	PASS
		MCH	RB75#0	QPSK	13.49	14.98	PASS
		HCH	RB75#0	QPSK	13.51	15.07	PASS
TM2	1.4	LCH	RB6#0	16QAM	1.11	1.36	PASS
		MCH	RB6#0	16QAM	1.11	1.38	PASS
		HCH	RB6#0	16QAM	1.11	1.36	PASS
	3	LCH	RB15#0	16QAM	2.71	3.04	PASS
		MCH	RB15#0	16QAM	2.71	3.05	PASS
		HCH	RB15#0	16QAM	2.70	3.05	PASS
	5	LCH	RB25#0	16QAM	4.53	5.12	PASS
		MCH	RB25#0	16QAM	4.53	5.16	PASS
		HCH	RB25#0	16QAM	4.52	5.18	PASS
	10	LCH	RB50#0	16QAM	9.02	10.09	PASS
		MCH	RB50#0	16QAM	9.03	10.03	PASS
		HCH	RB50#0	16QAM	9.02	10.03	PASS
	15	LCH	RB75#0	16QAM	13.50	14.89	PASS
		MCH	RB75#0	16QAM	13.52	14.96	PASS
		HCH	RB75#0	16QAM	13.52	14.93	PASS
	20	LCH	RB100#0	16QAM	18.11	20.10	PASS
		MCH	RB100#0	16QAM	18.08	20.02	PASS
		HCH	RB100#0	16QAM	18.06	20.02	PASS

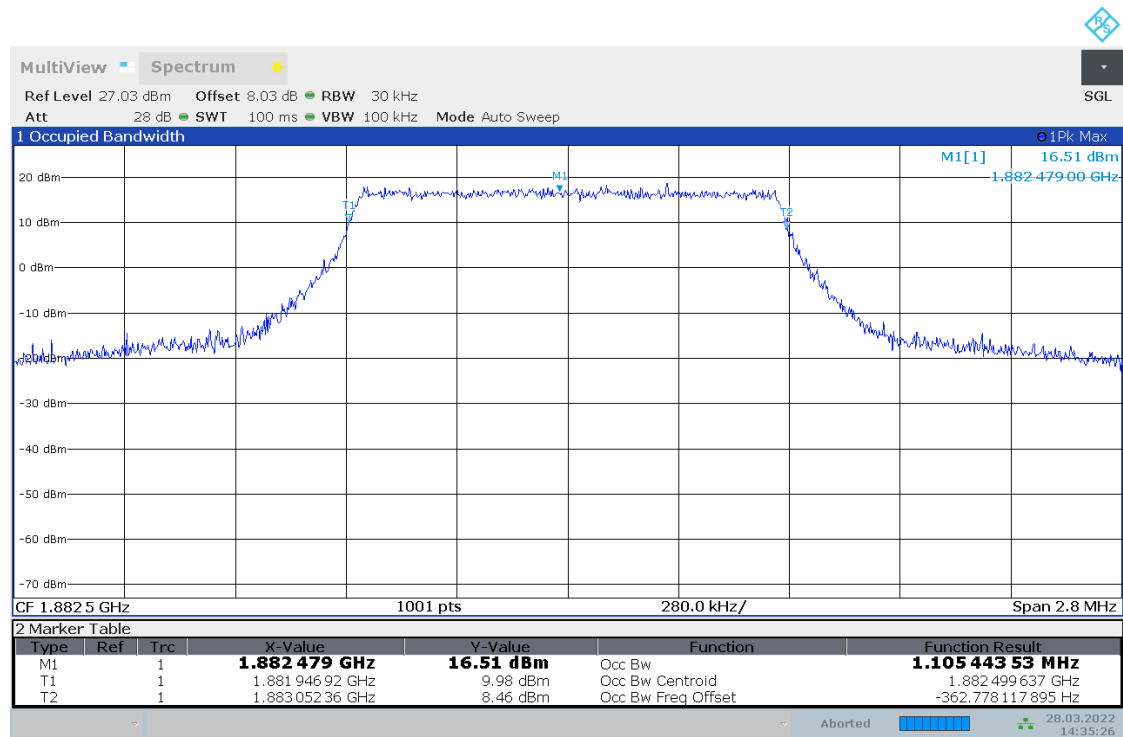
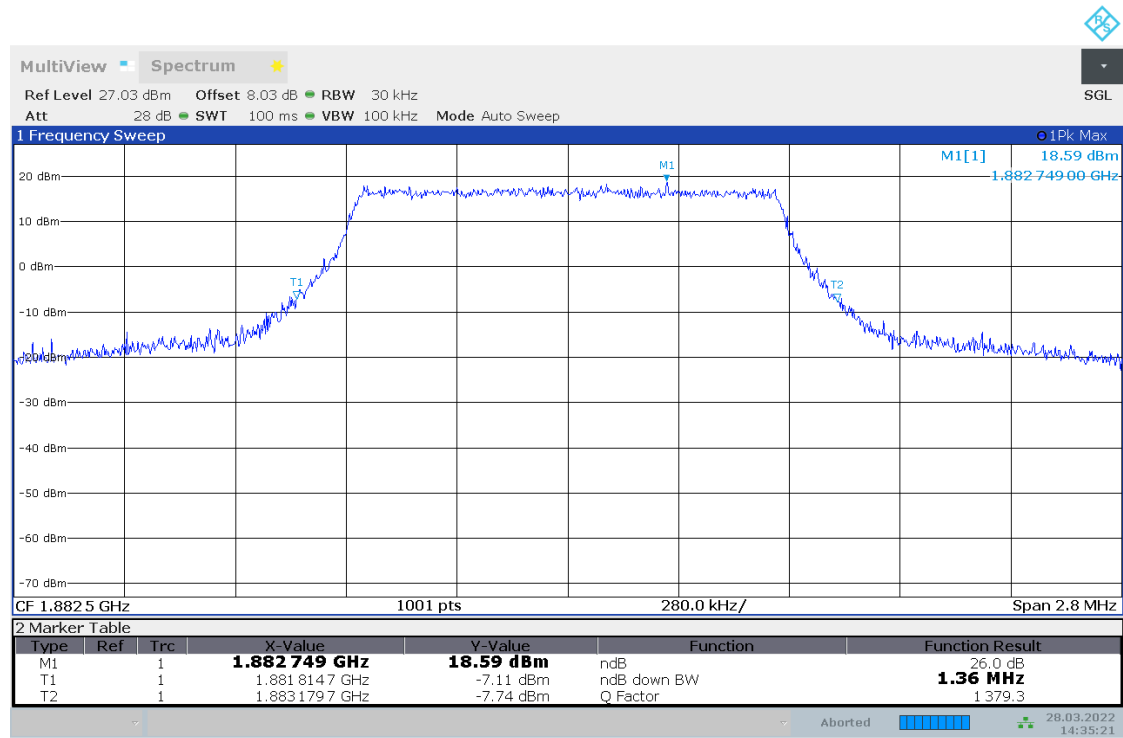
Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM3	1.4	LCH	RB6#0	64QAM	1.11	1.36	PASS
		MCH	RB6#0	64QAM	1.11	1.35	PASS
		HCH	RB6#0	64QAM	1.11	1.36	PASS
	3	LCH	RB15#0	64QAM	2.71	3.07	PASS
		MCH	RB15#0	64QAM	2.70	3.04	PASS
		HCH	RB15#0	64QAM	2.70	3.05	PASS
	5	LCH	RB25#0	64QAM	4.53	5.17	PASS
		MCH	RB25#0	64QAM	4.53	5.20	PASS
		HCH	RB25#0	64QAM	4.53	5.20	PASS
	10	LCH	RB50#0	64QAM	9.02	10.07	PASS
		MCH	RB50#0	64QAM	9.01	10.09	PASS
		HCH	RB50#0	64QAM	9.01	10.03	PASS
	15	LCH	RB75#0	64QAM	13.51	15.04	PASS
		MCH	RB75#0	64QAM	13.52	14.98	PASS
		HCH	RB75#0	64QAM	13.50	15.02	PASS
	20	LCH	RB100#0	64QAM	18.08	20.06	PASS
		MCH	RB100#0	64QAM	18.07	20.18	PASS
		HCH	RB100#0	64QAM	18.06	19.86	PASS

4.2 TEST PLOTS

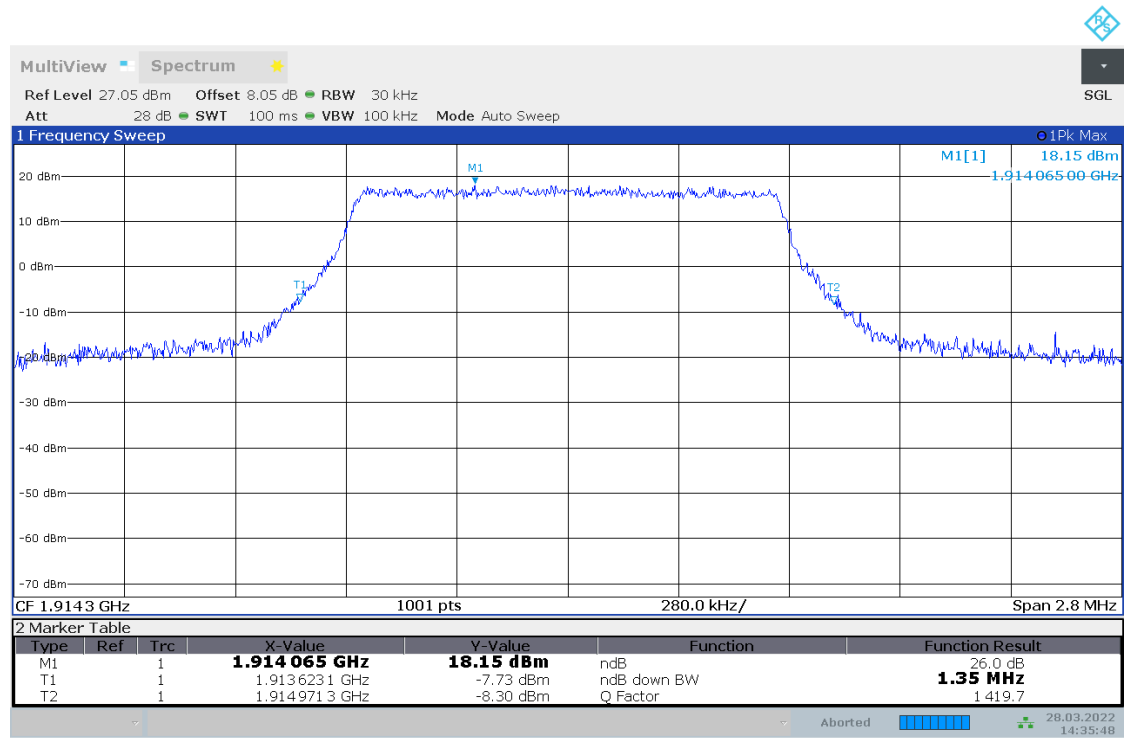
4.2.1 TM1_1.4MHZ_LCH_RB6#0



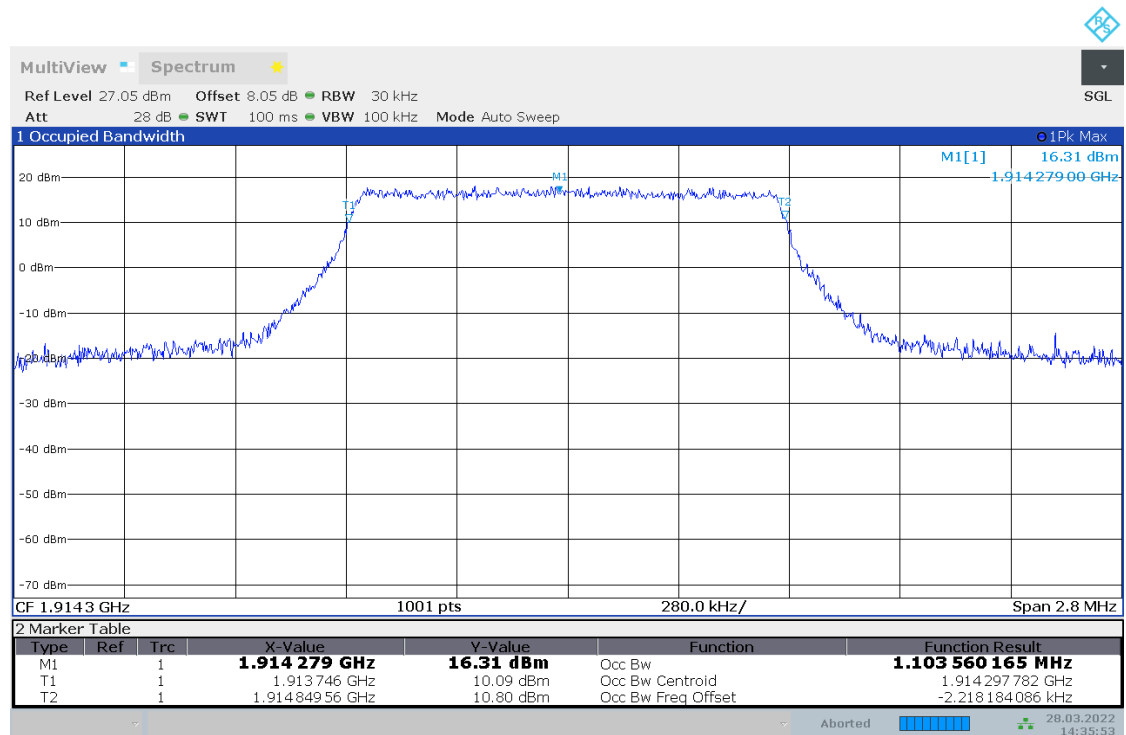
4.2.2 TM1_1.4MHZ_MCH_RB6#0



4.2.3 TM1_1.4MHZ_HCH_RB6#0

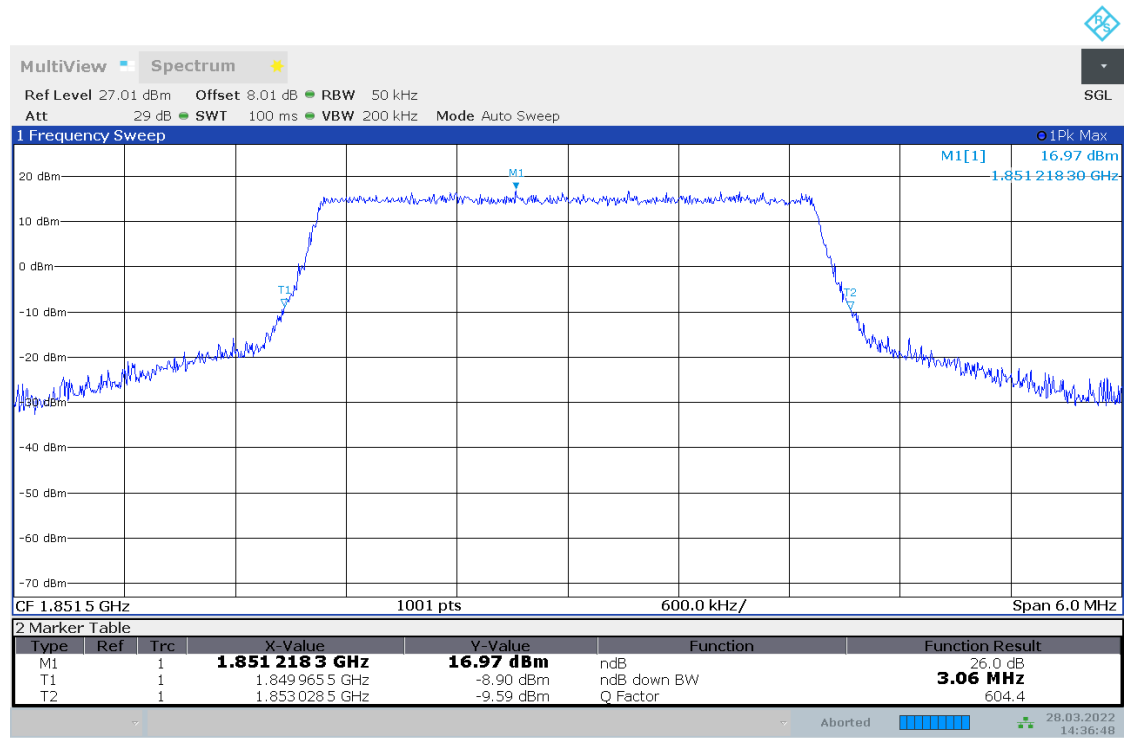


14:35:49 28.03.2022

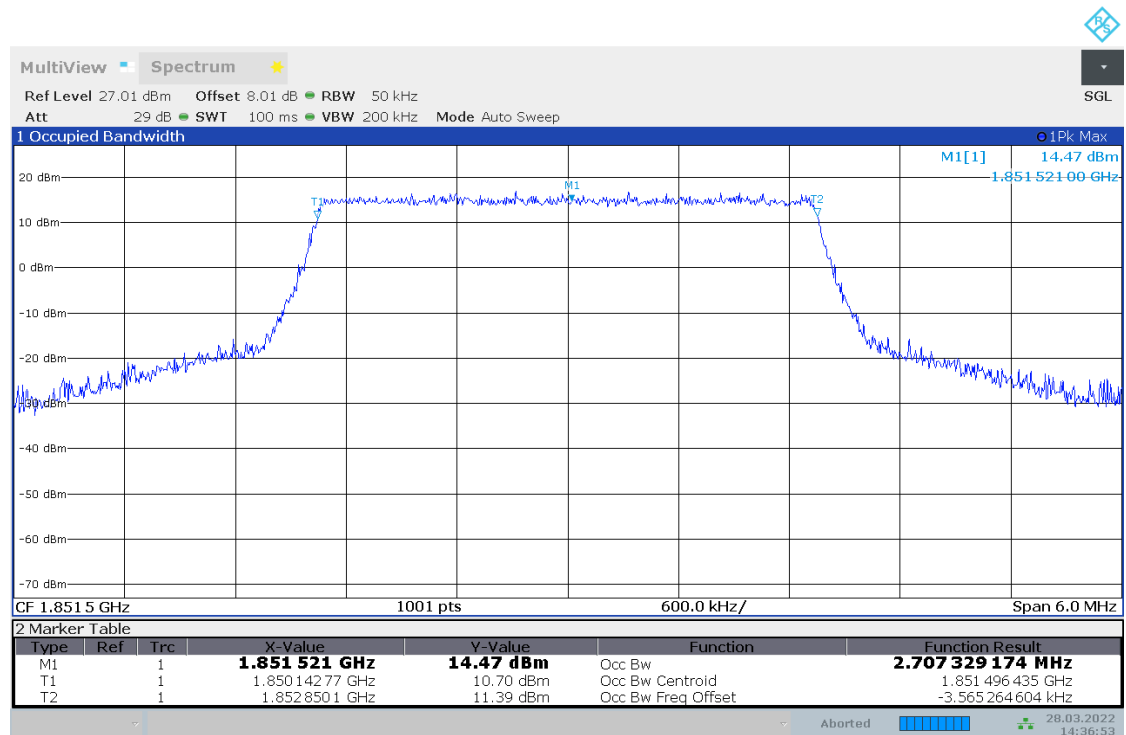


14:35:54 28.03.2022

4.2.4 TM1_3MHZ_LCH_RB15#0

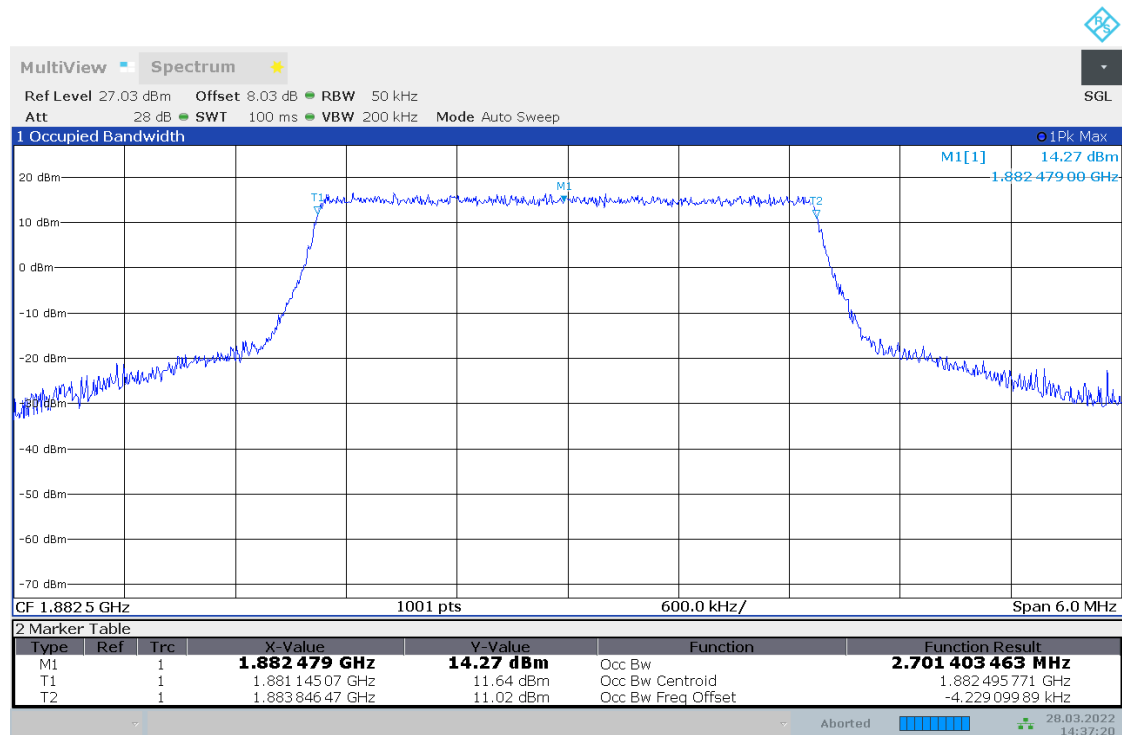
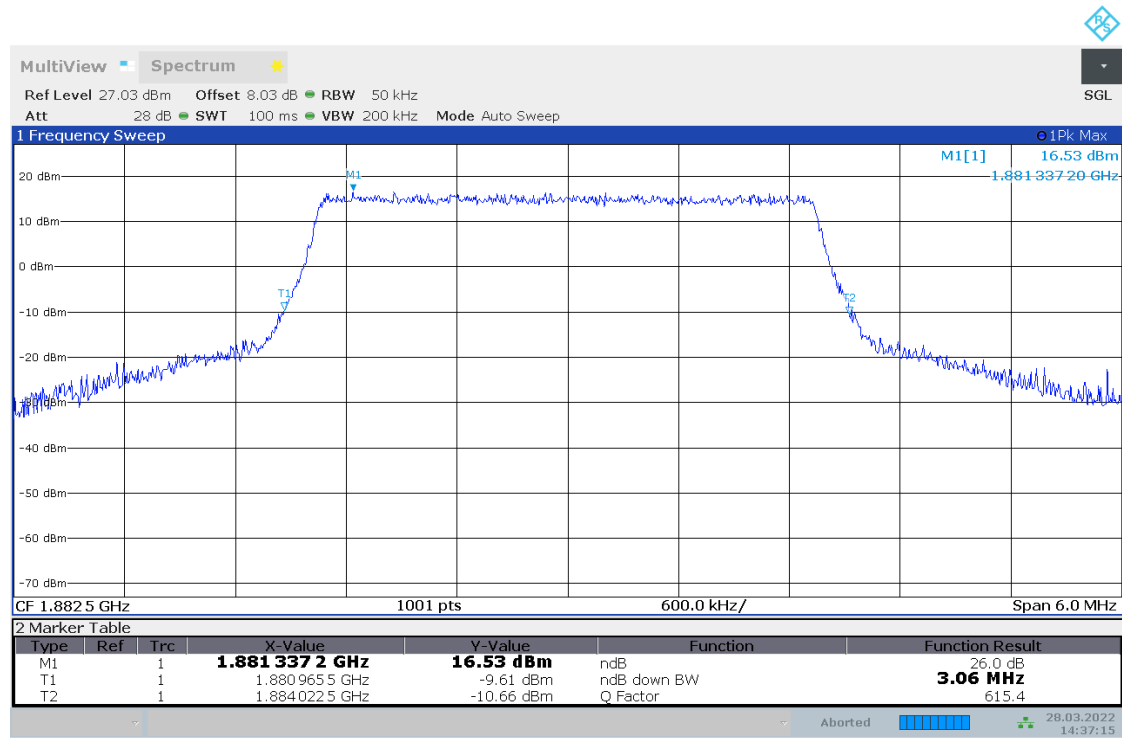


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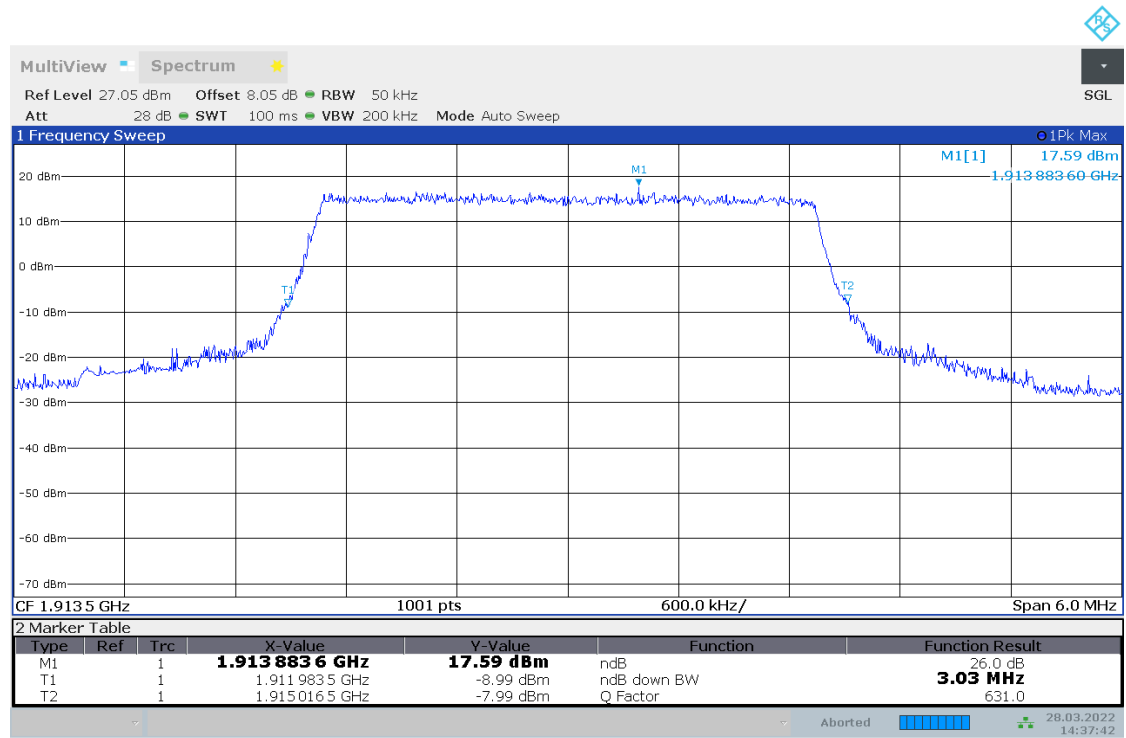


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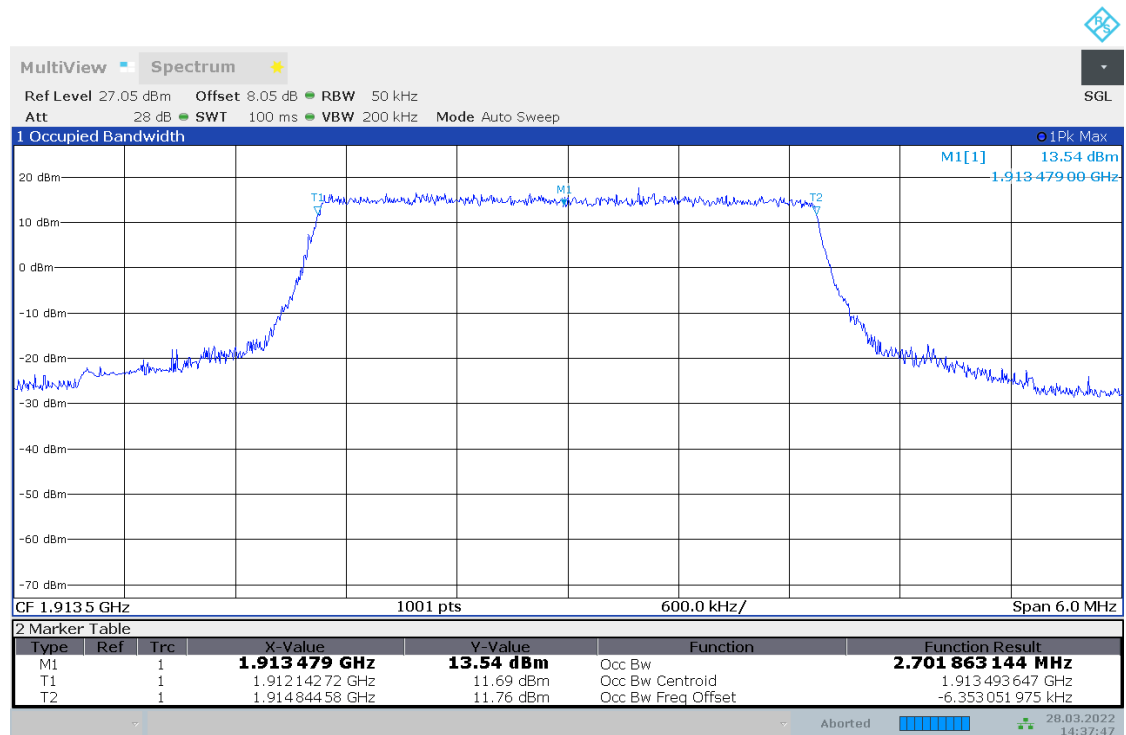
4.2.5 TM1_3MHZ_MCH_RB15#0



4.2.6 TM1_3MHZ_HCH_RB15#0

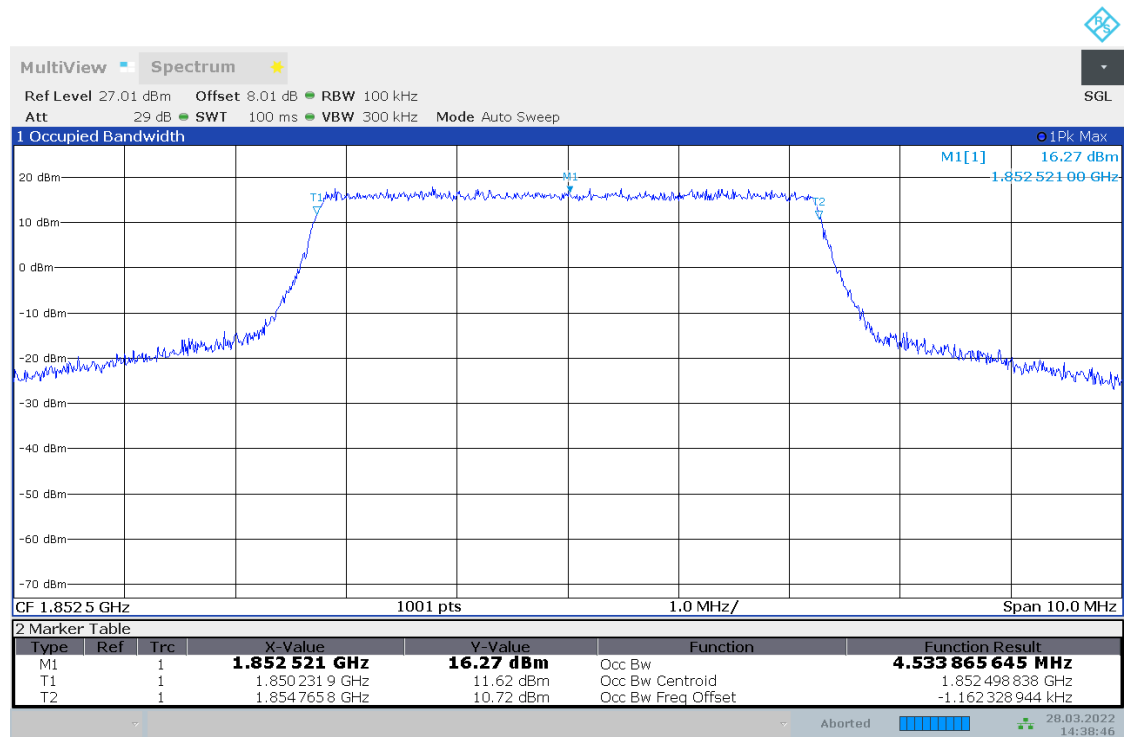
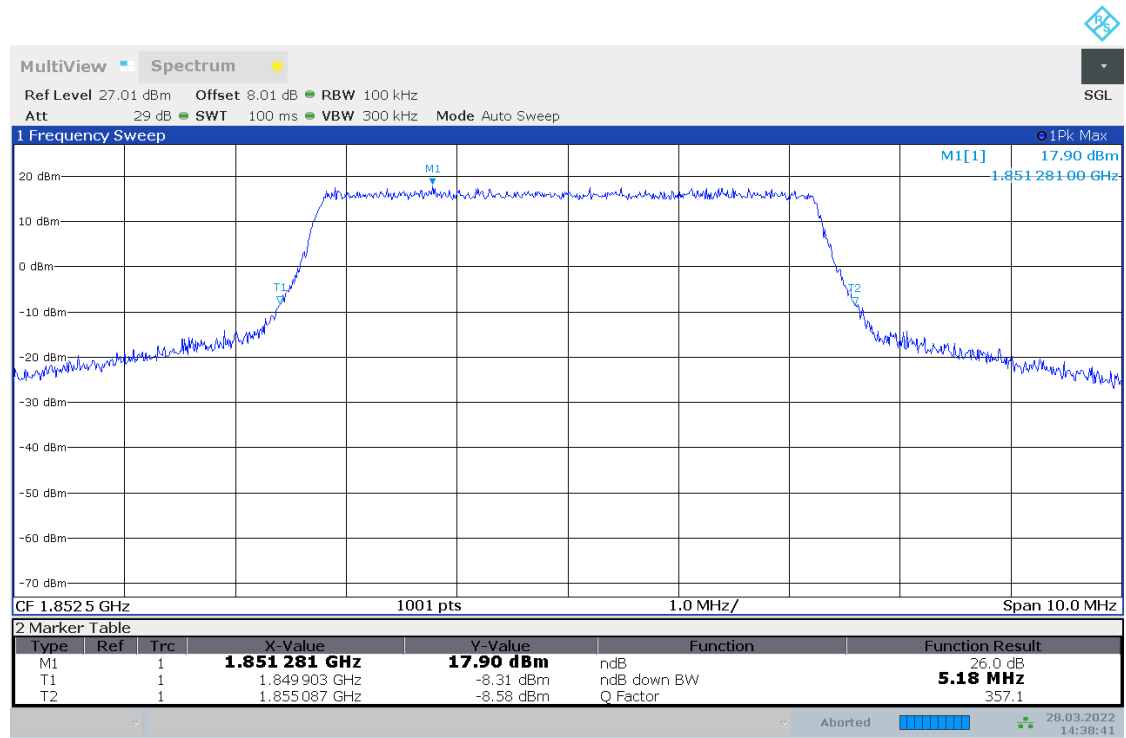


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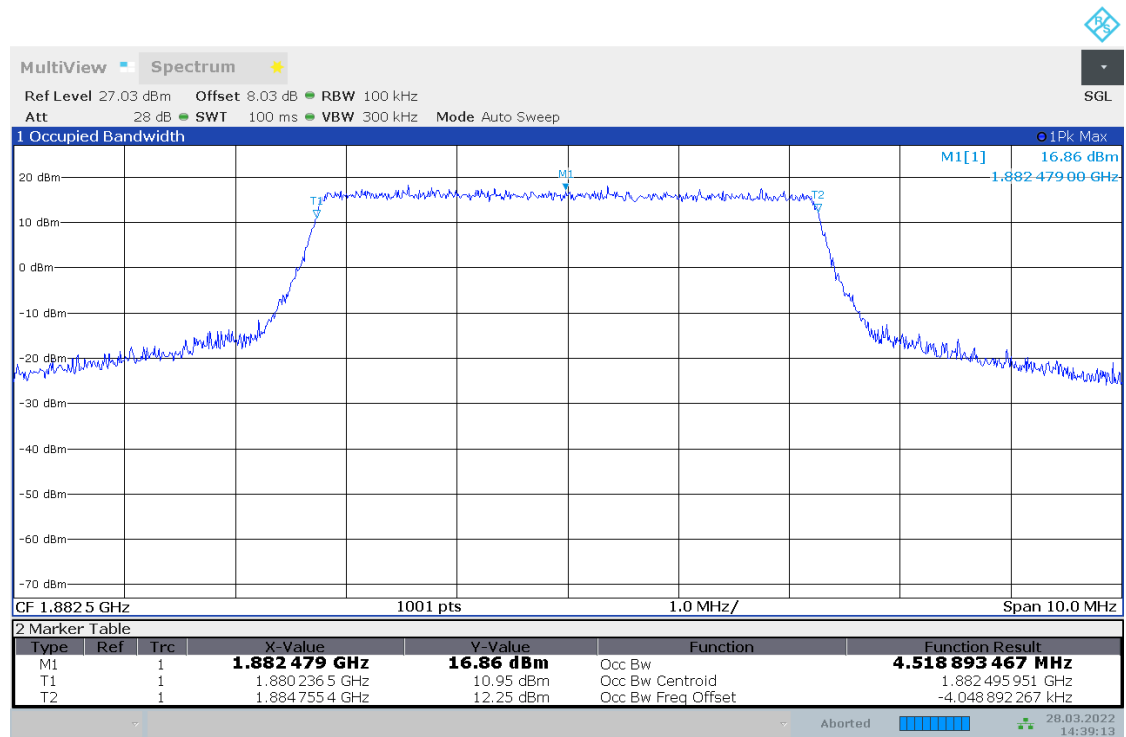
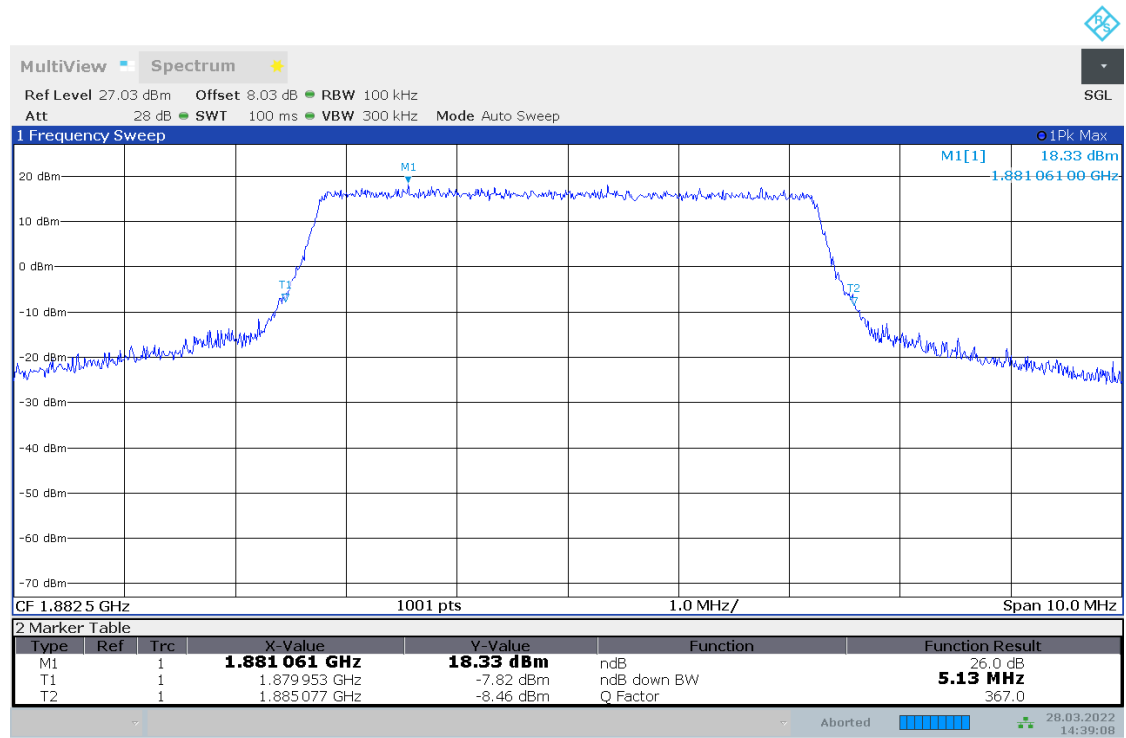


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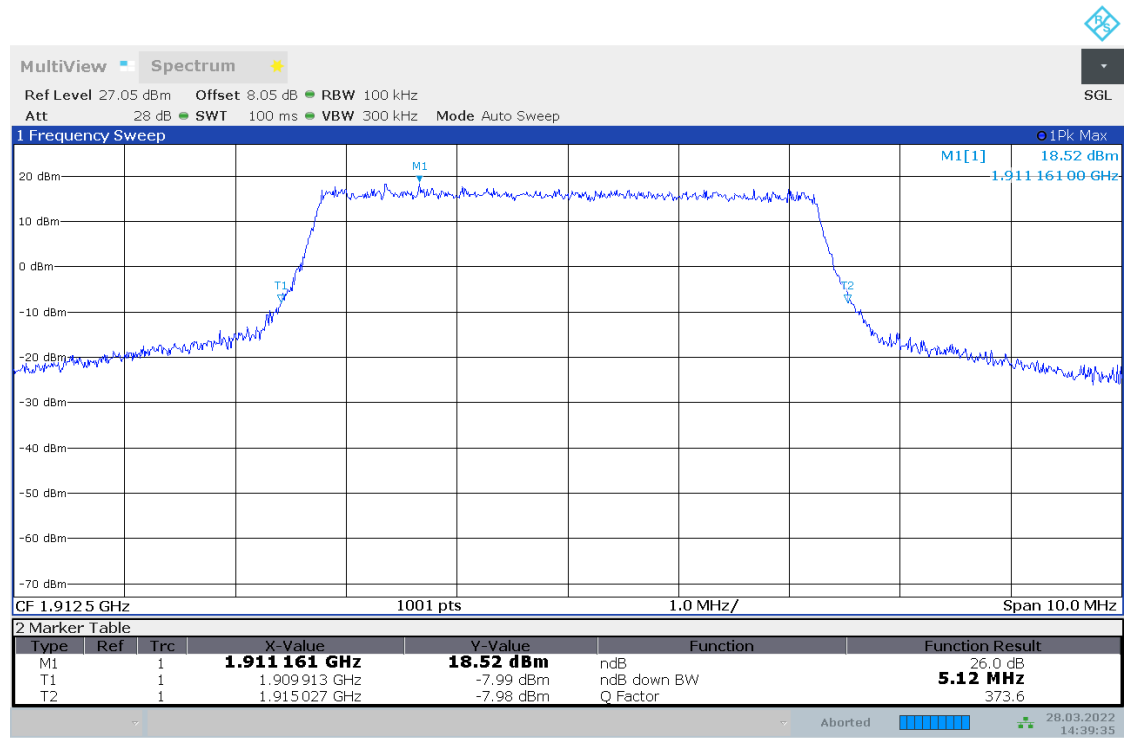
4.2.7 TM1_5MHZ_LCH_RB25#0



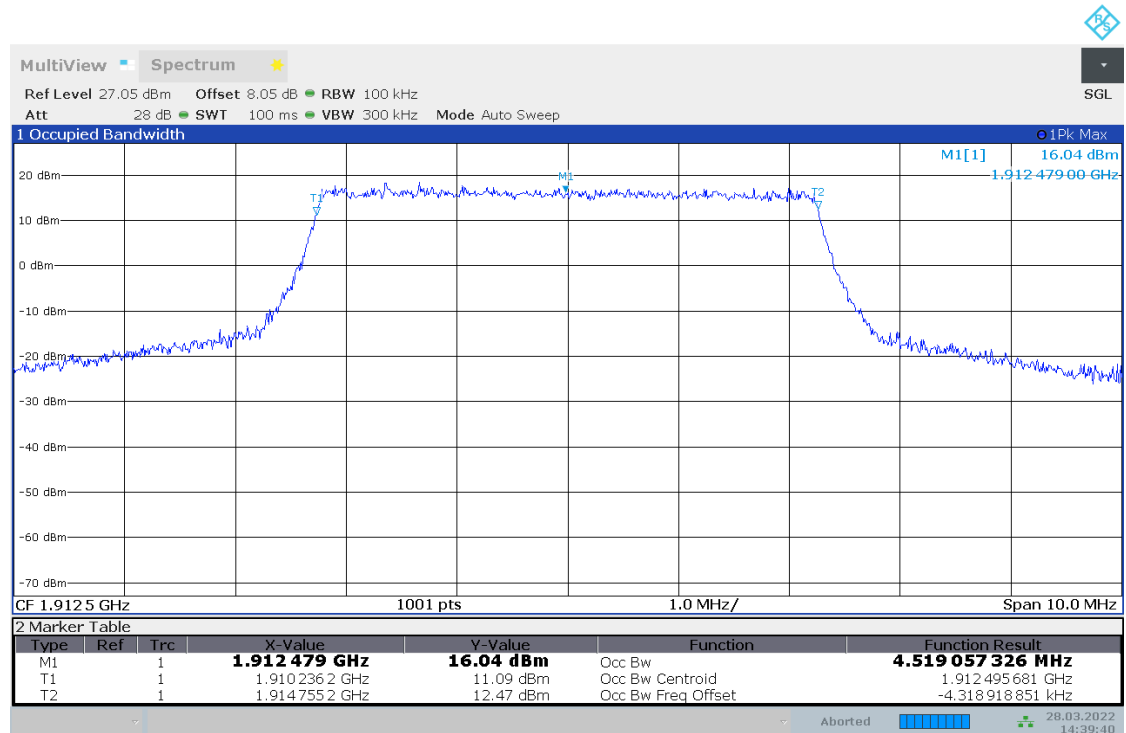
4.2.8 TM1_5MHZ_MCH_RB25#0



4.2.9 TM1_5MHZ_HCH_RB25#0

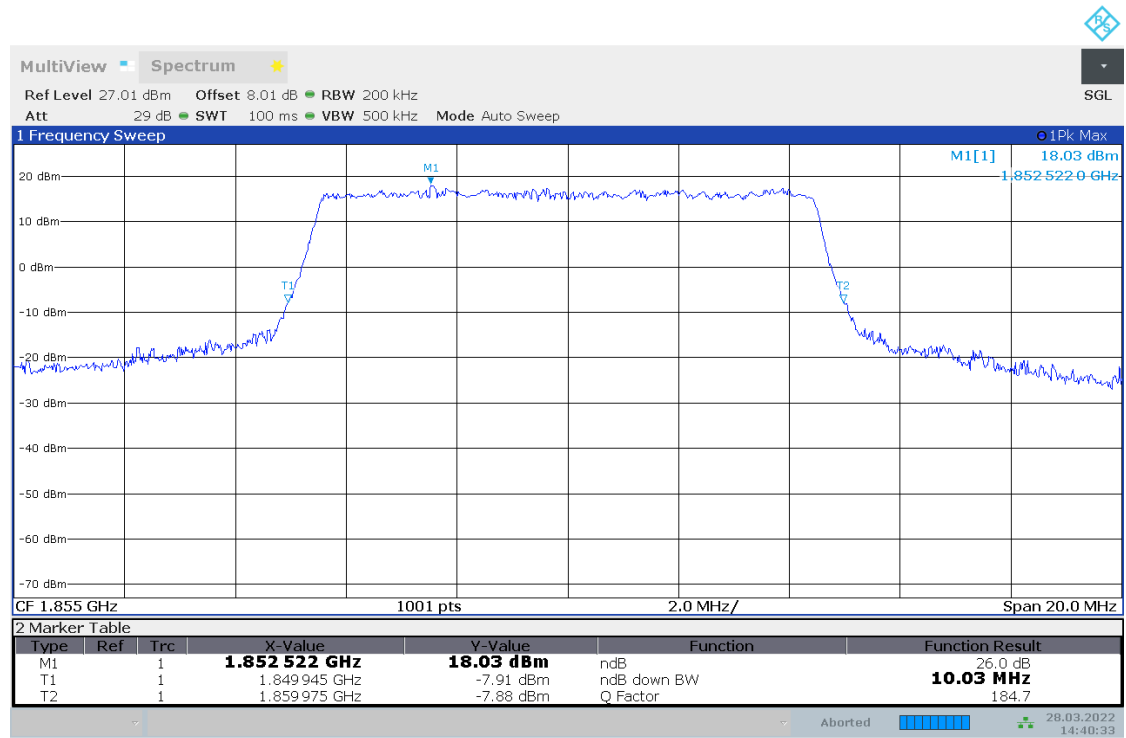


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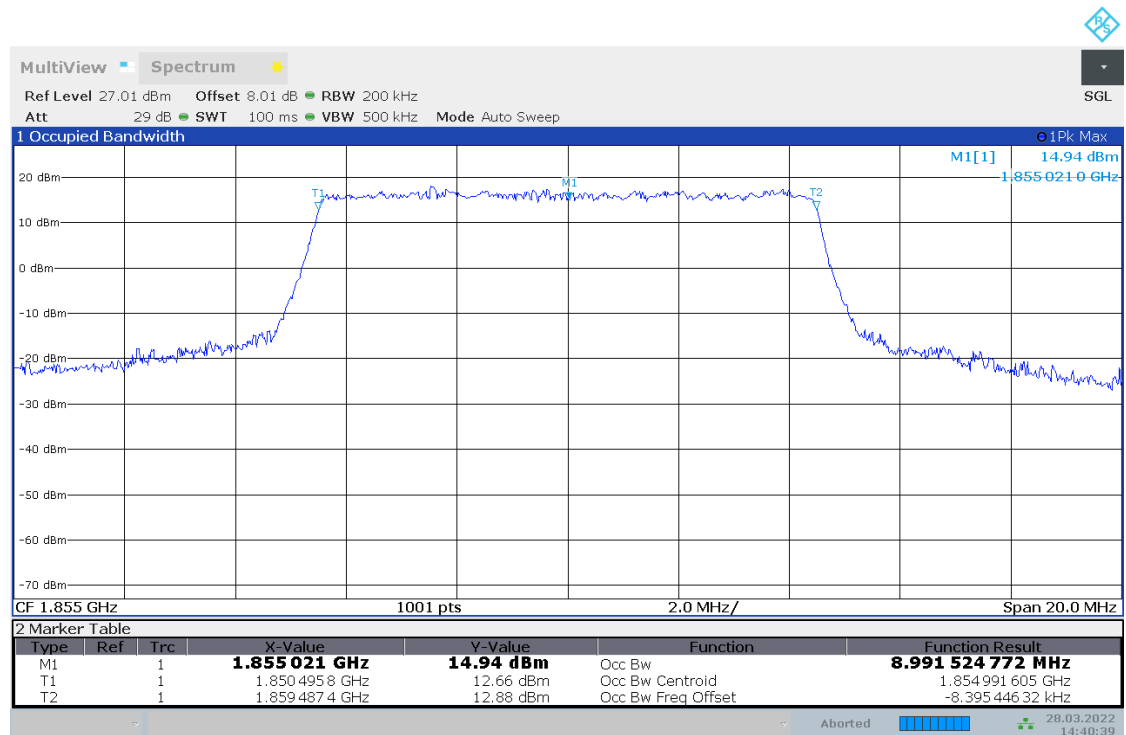


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4.2.10 TM1_10MHZ_LCH_RB50#0

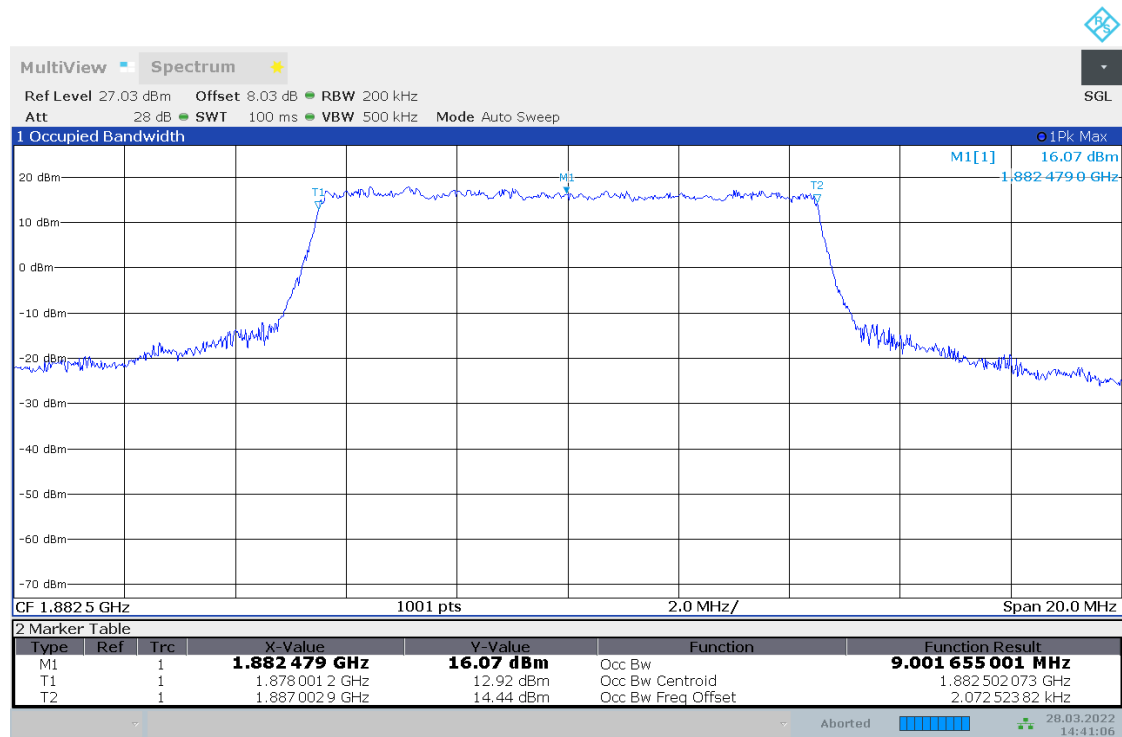
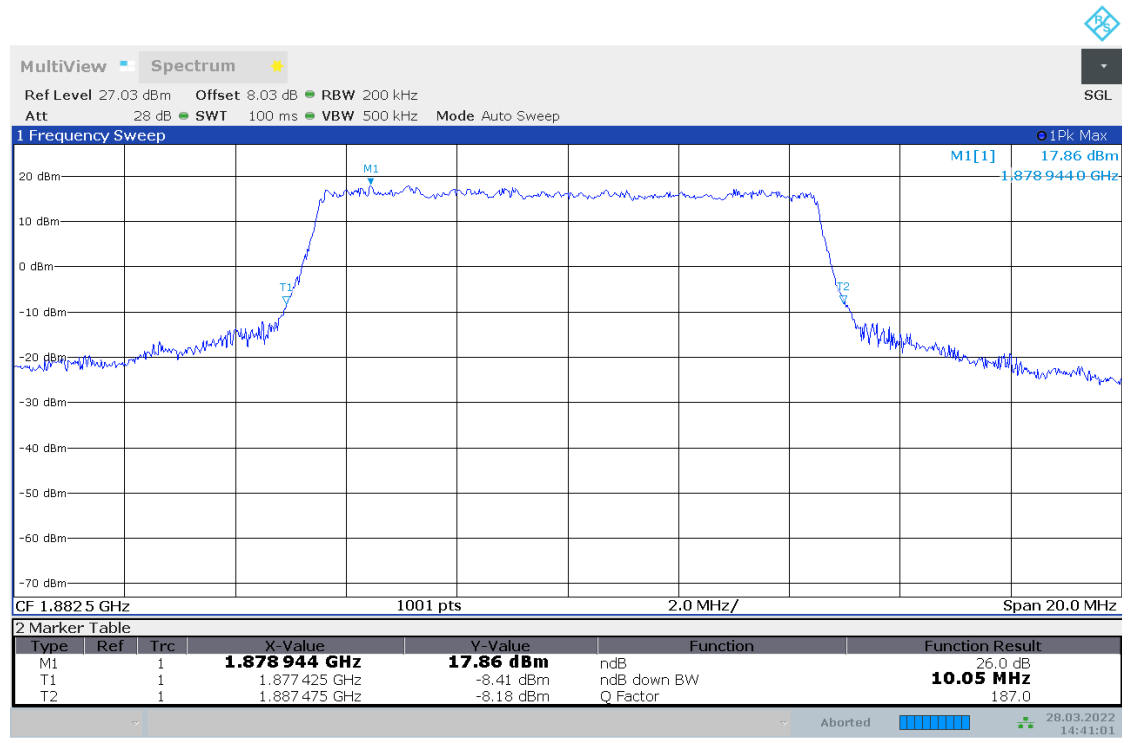


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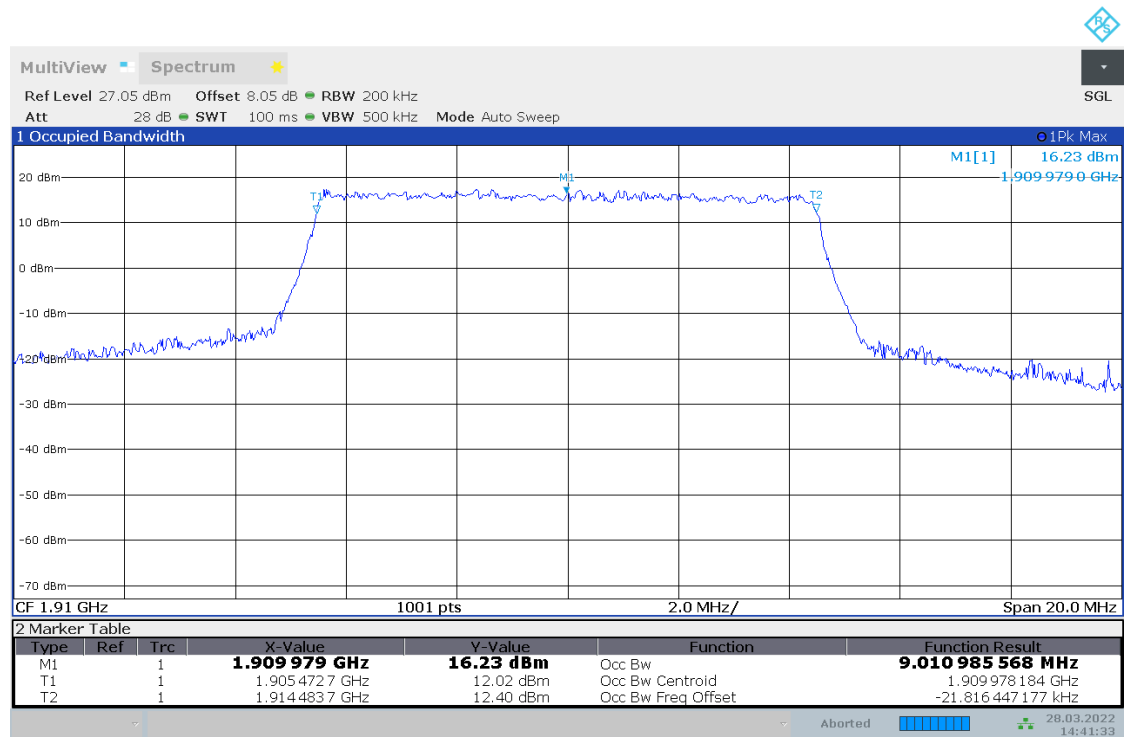
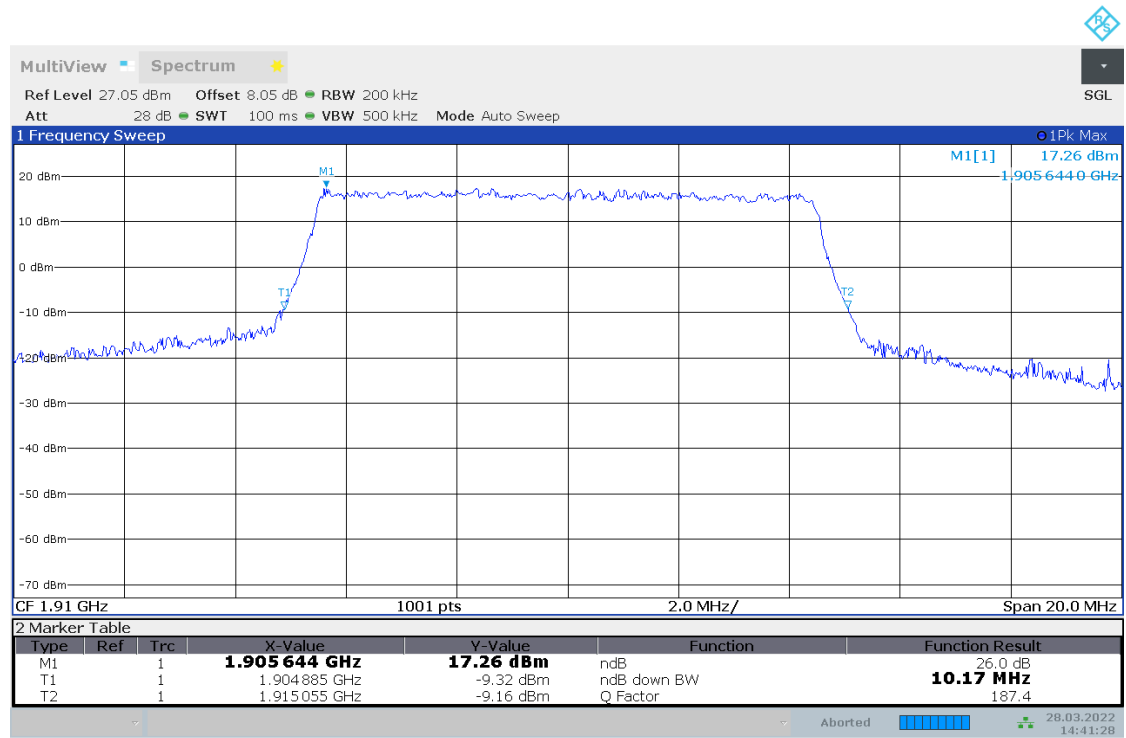


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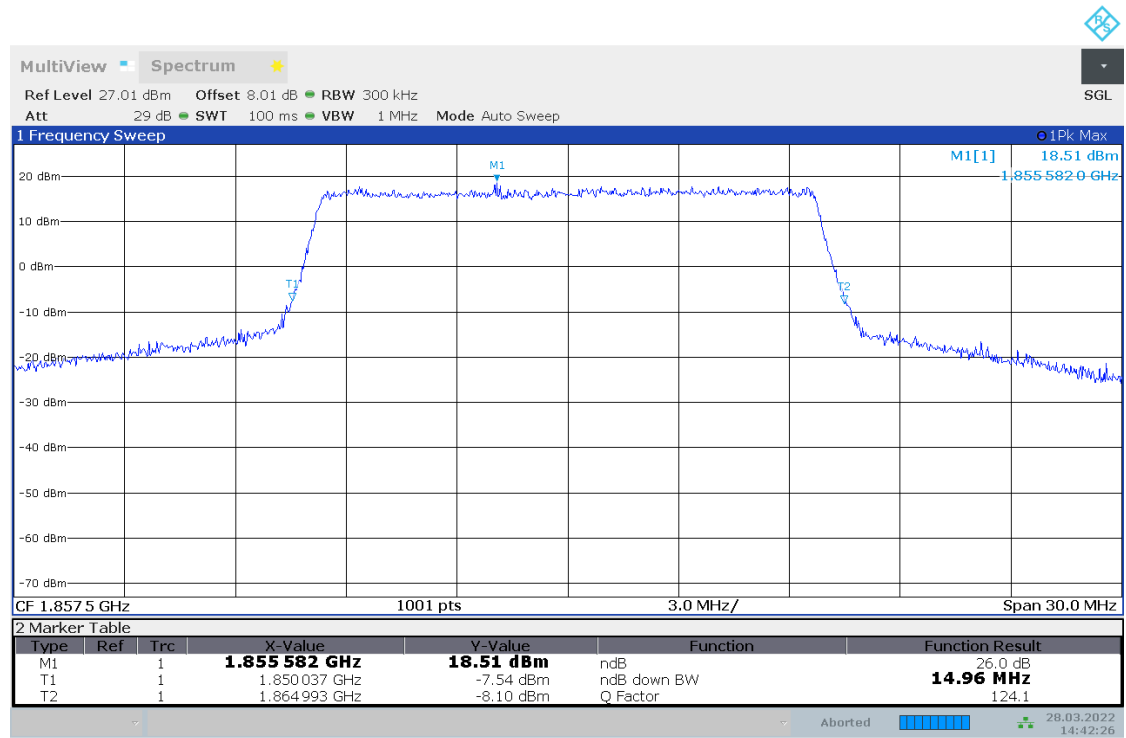
4.2.11 TM1_10MHZ_MCH_RB50#0



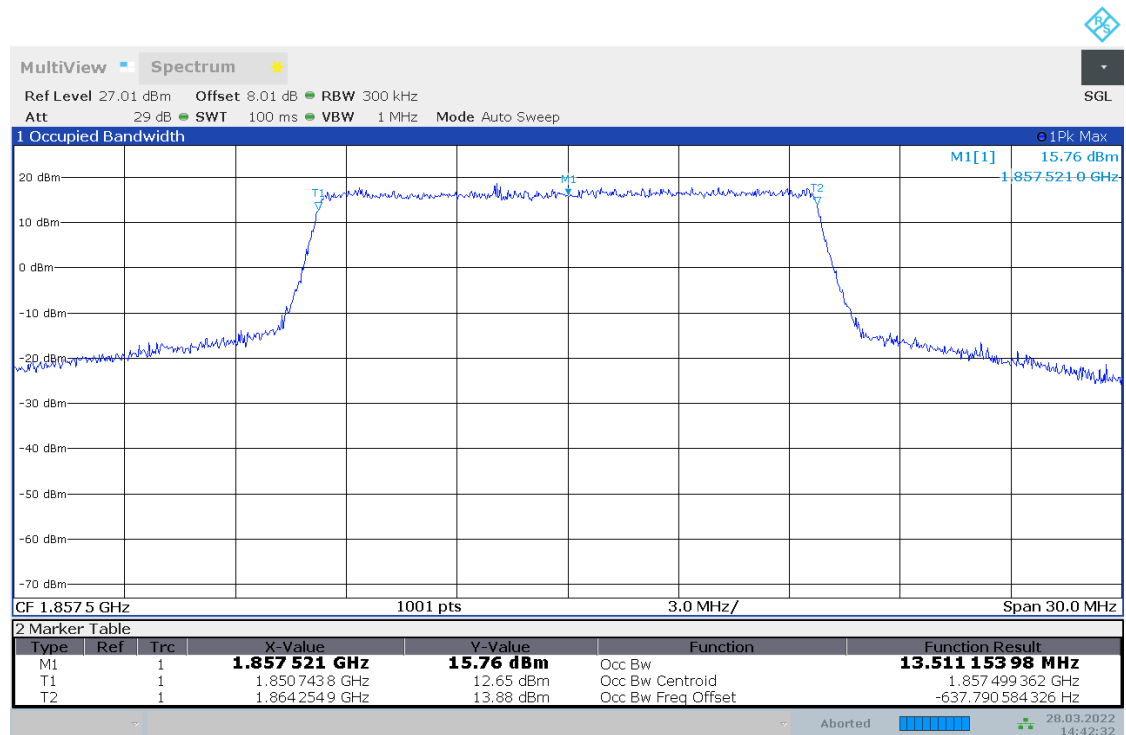
4.2.12 TM1_10MHZ_HCH_RB50#0



4.2.13 TM1_15MHZ_LCH_RB75#0

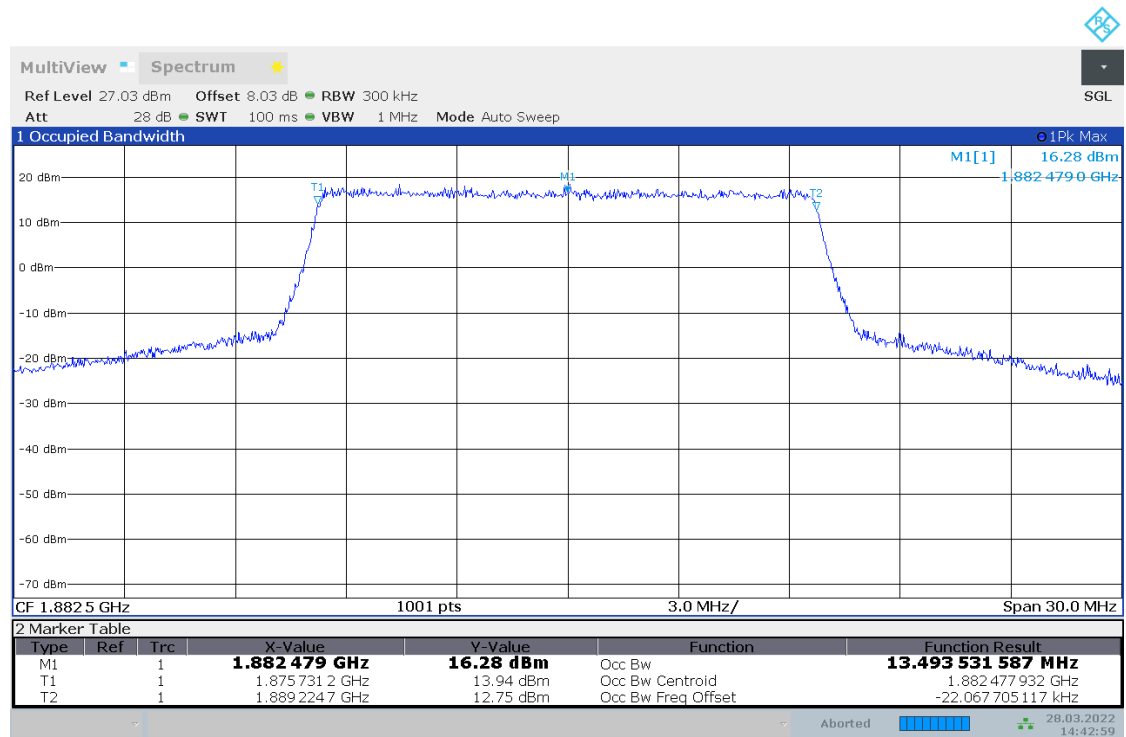
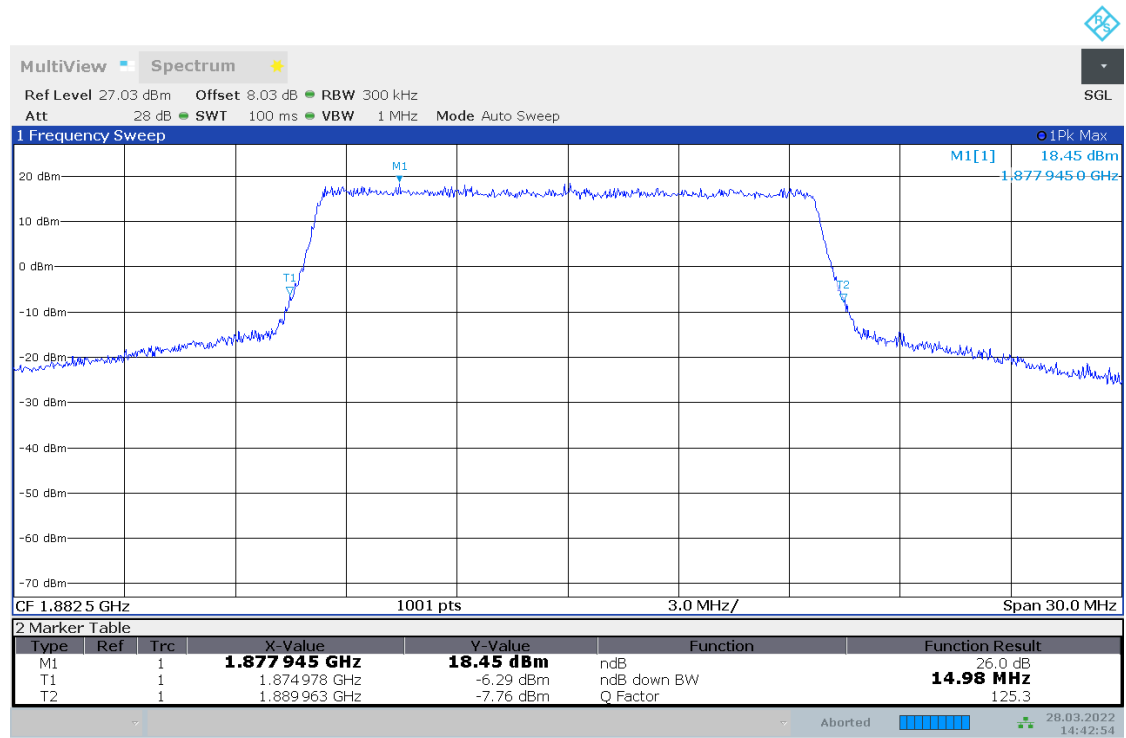


14:42:27 28.03.2022

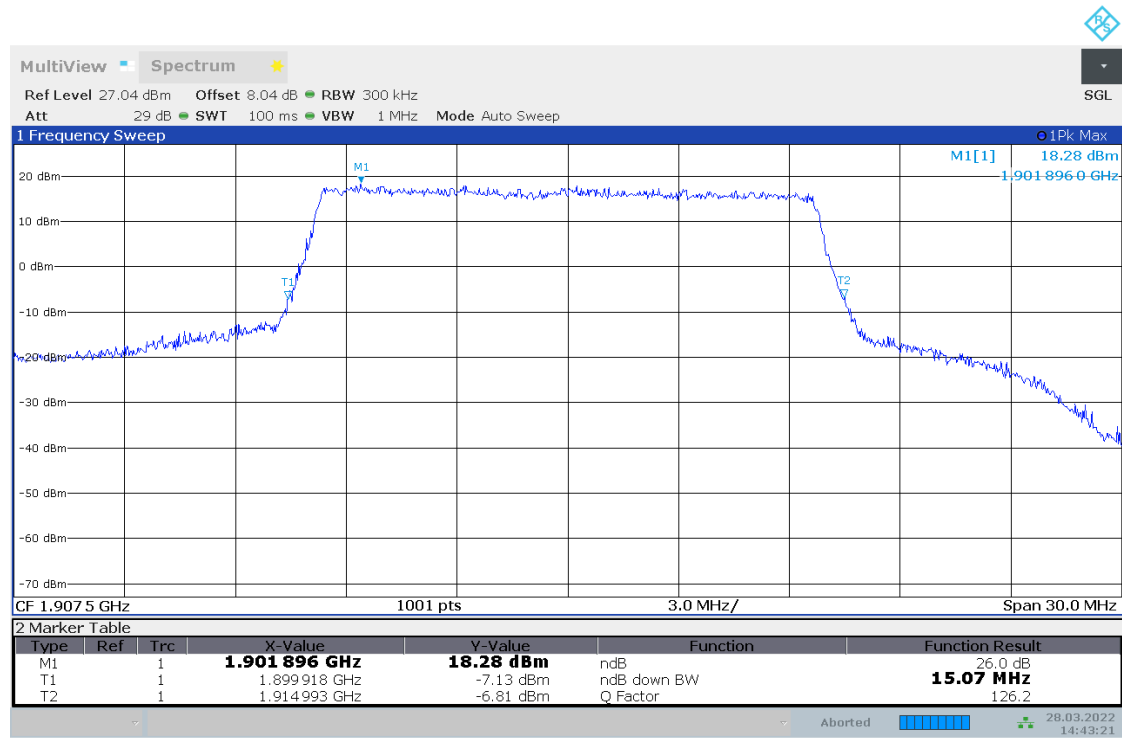


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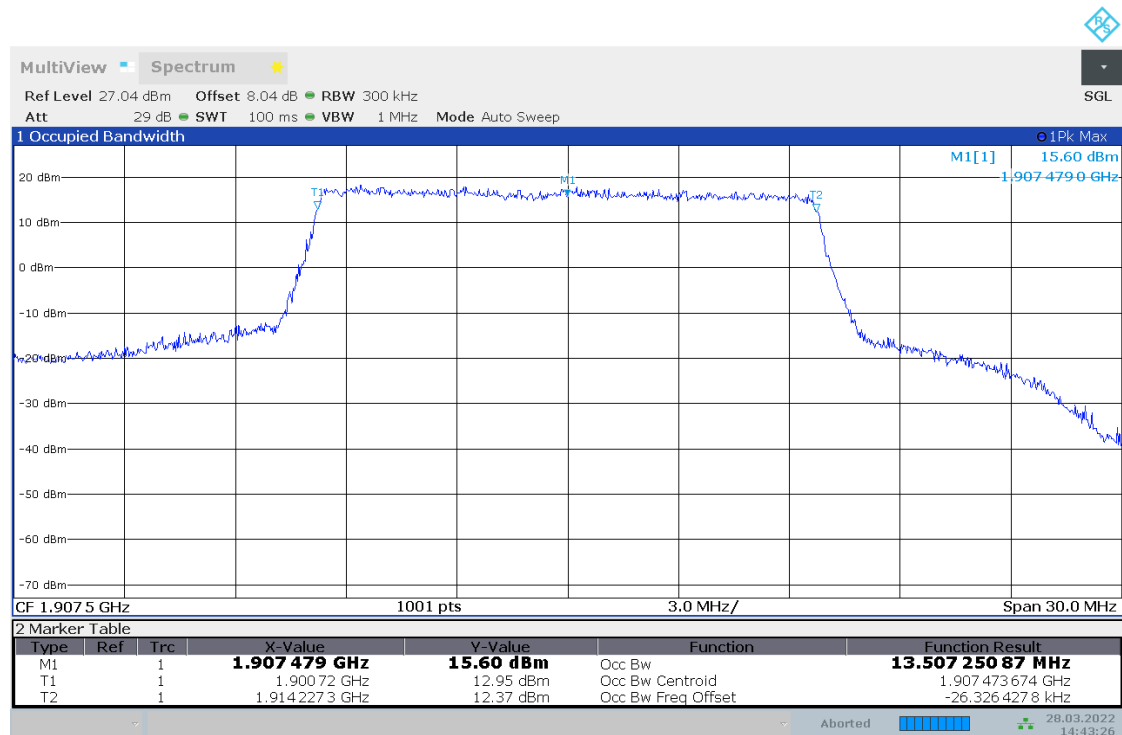
4.2.14 TM1_15MHZ_MCH_RB75#0



4.2.15 TM1_15MHZ_HCH_RB75#0

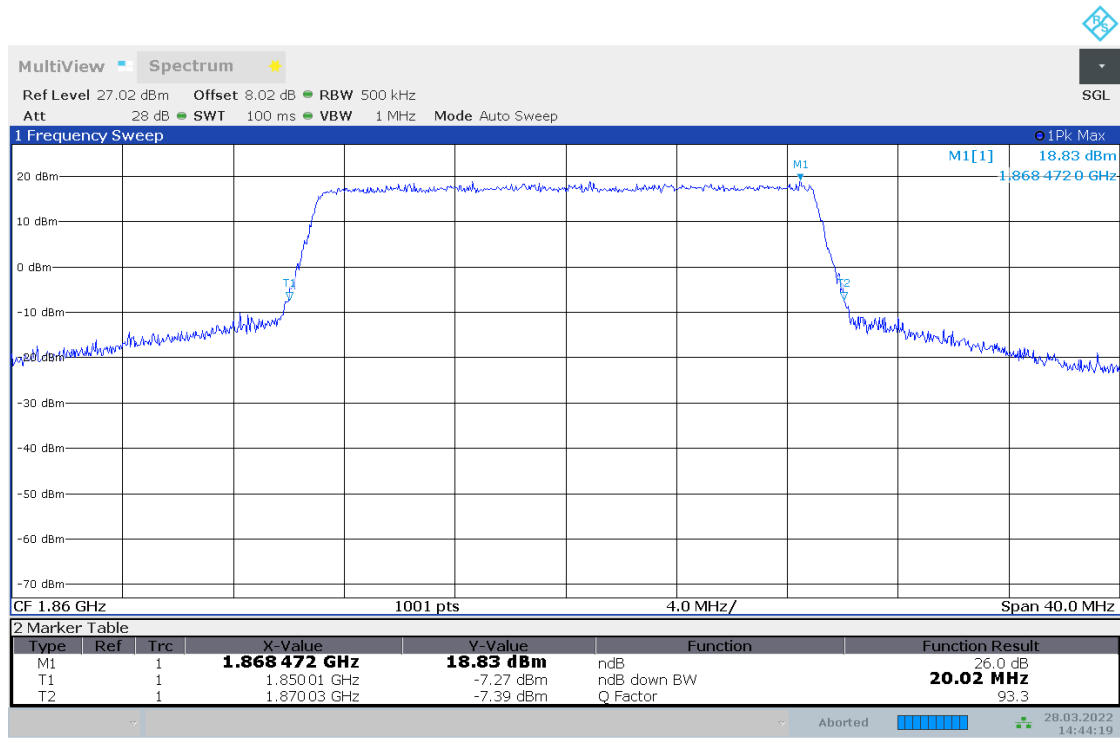


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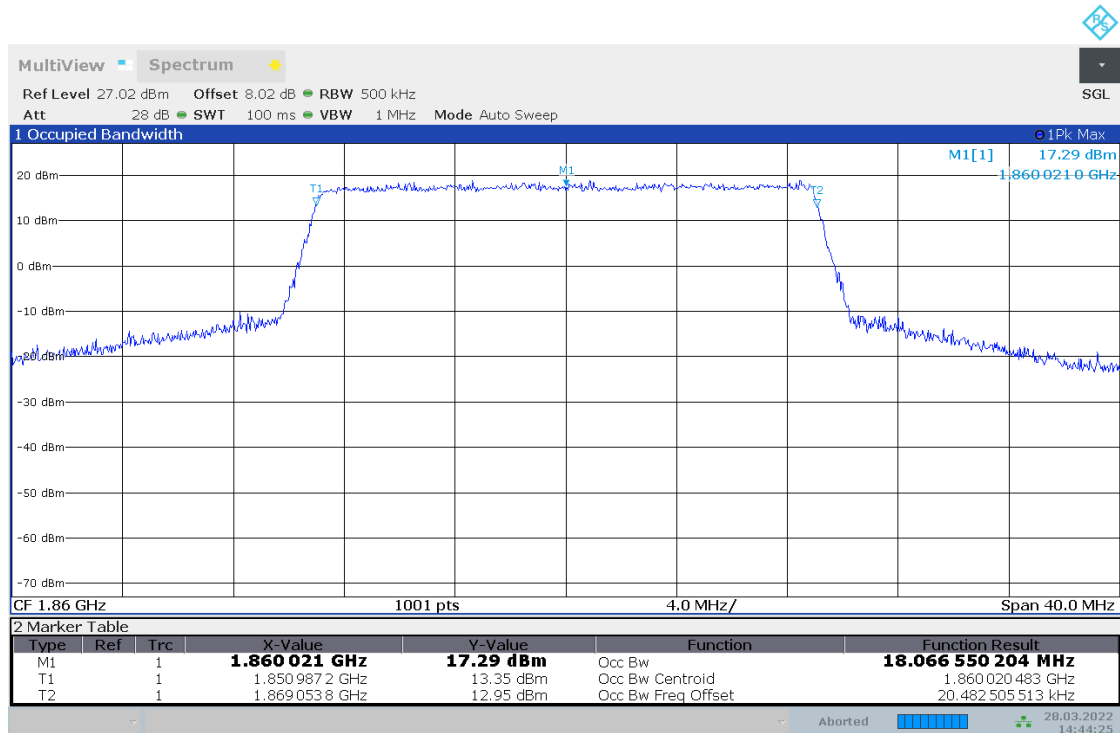


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4.2.16 TM1_20MHZ_LCH_RB100#0

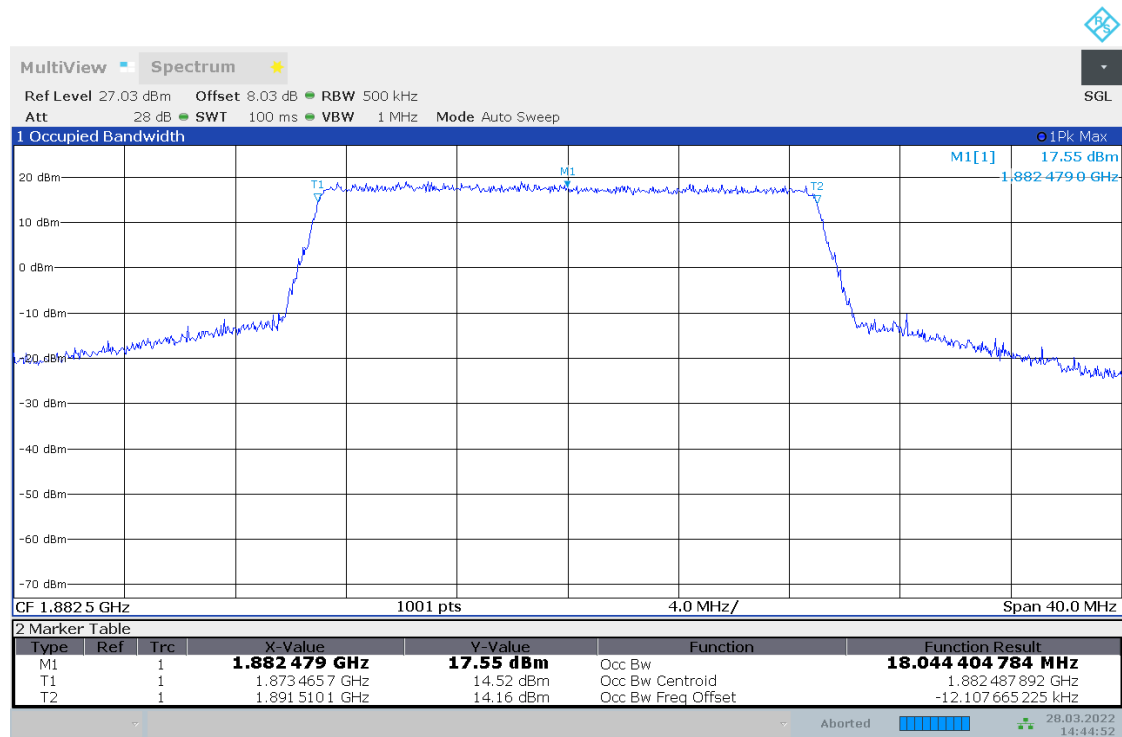
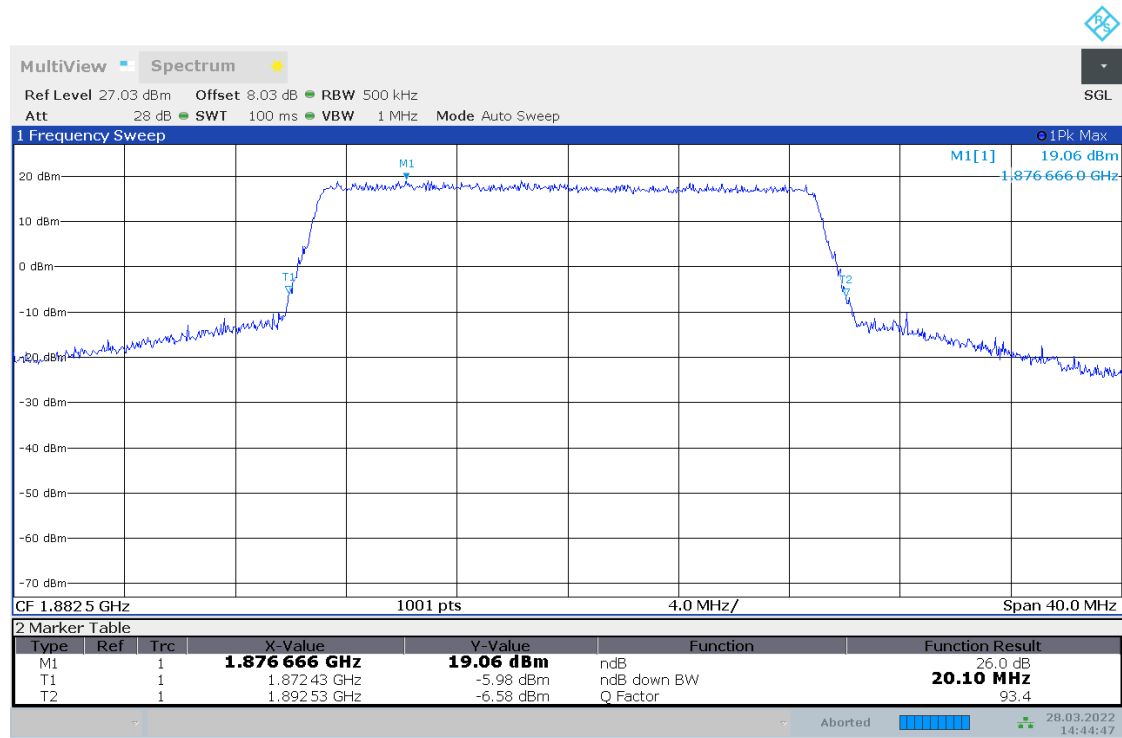


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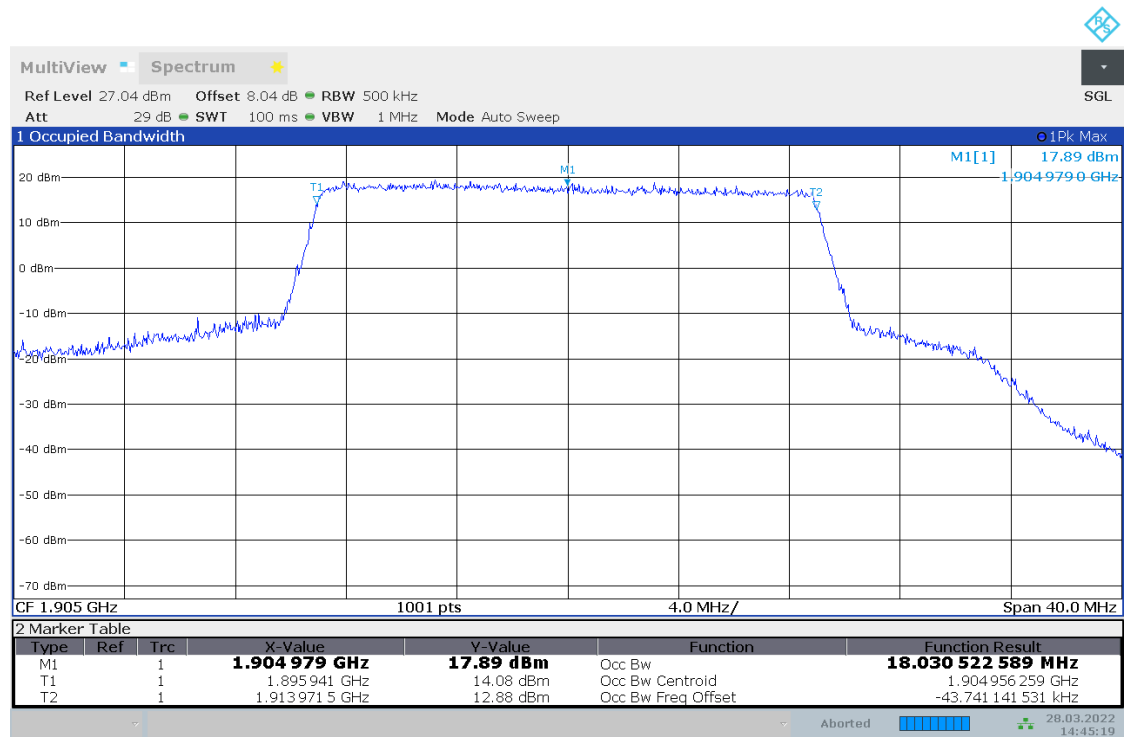
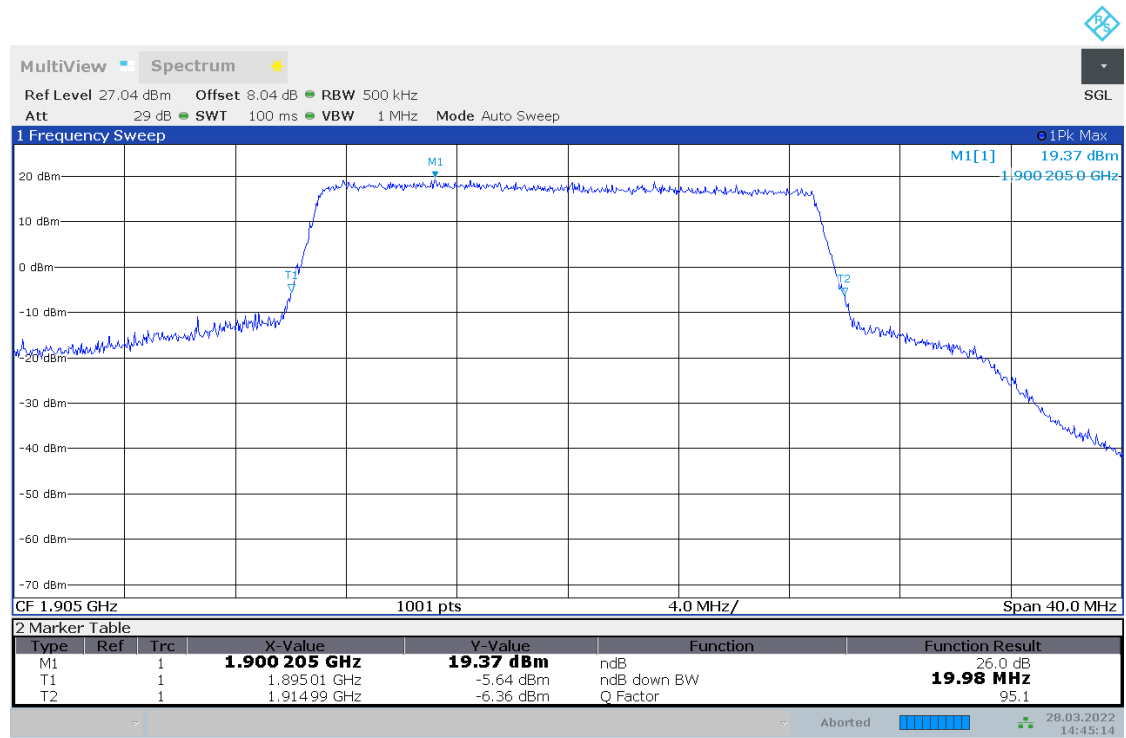


14:44:26 28.03.2022

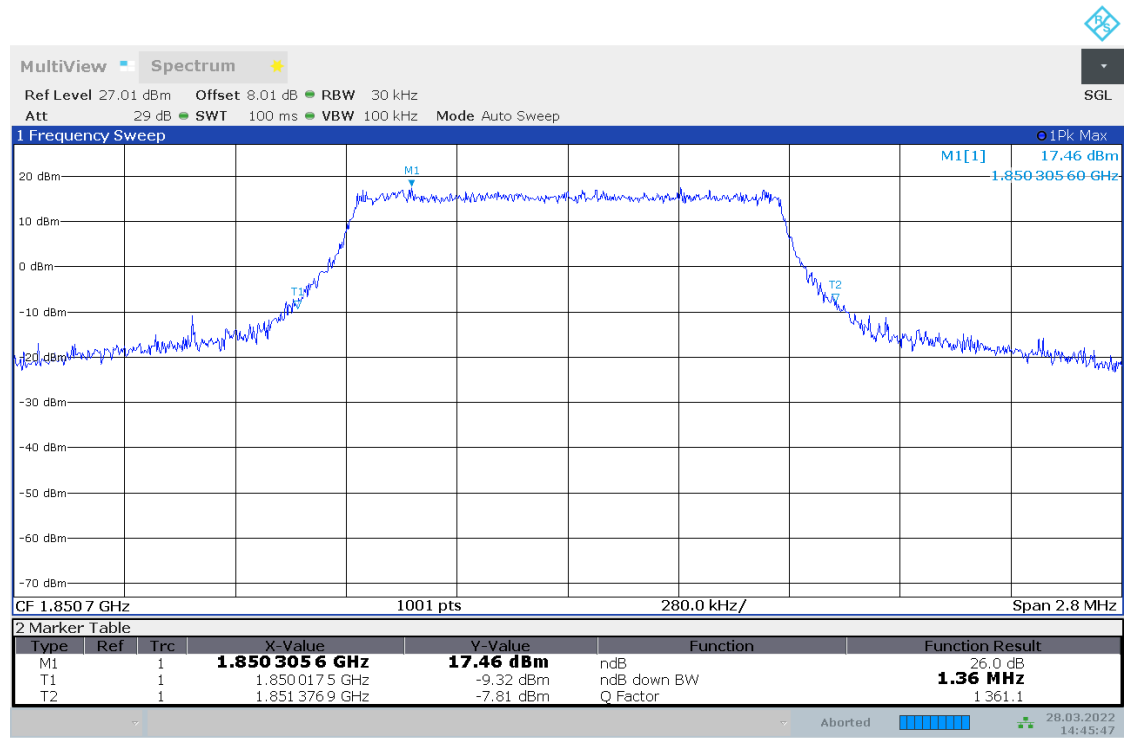
4.2.17 TM1_20MHZ_MCH_RB100#0



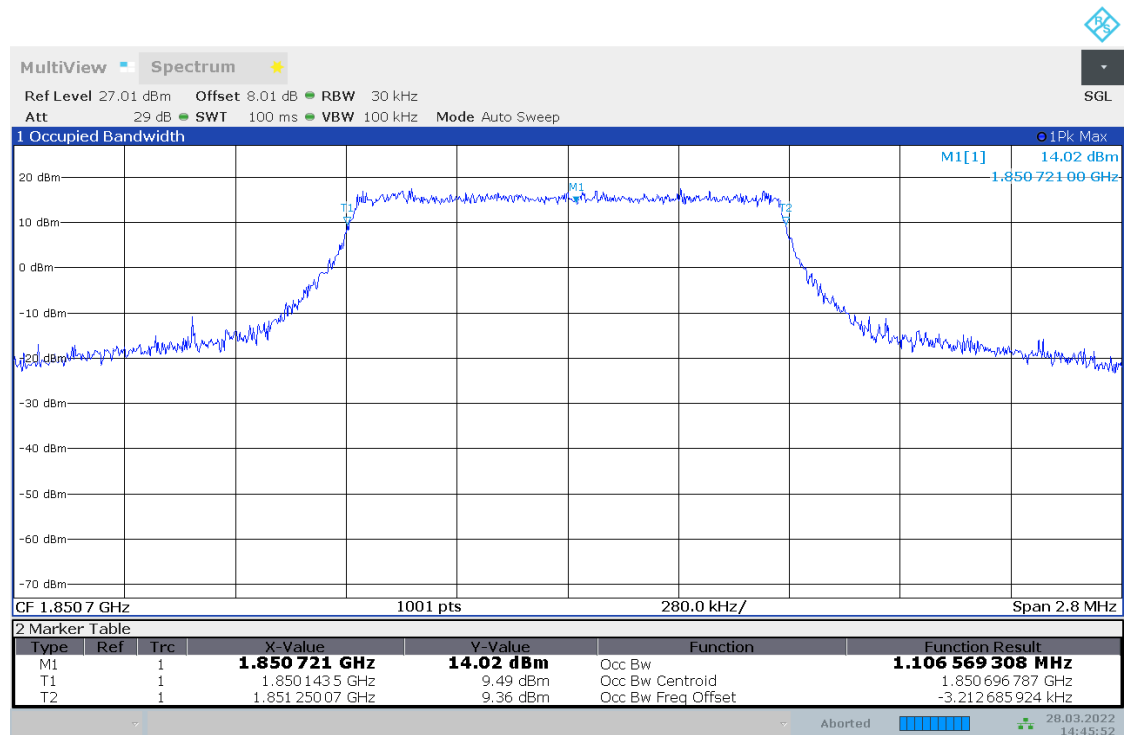
4.2.18 TM1_20MHZ_HCH_RB100#0



4.2.19 TM2_1.4MHZ_LCH_RB6#0

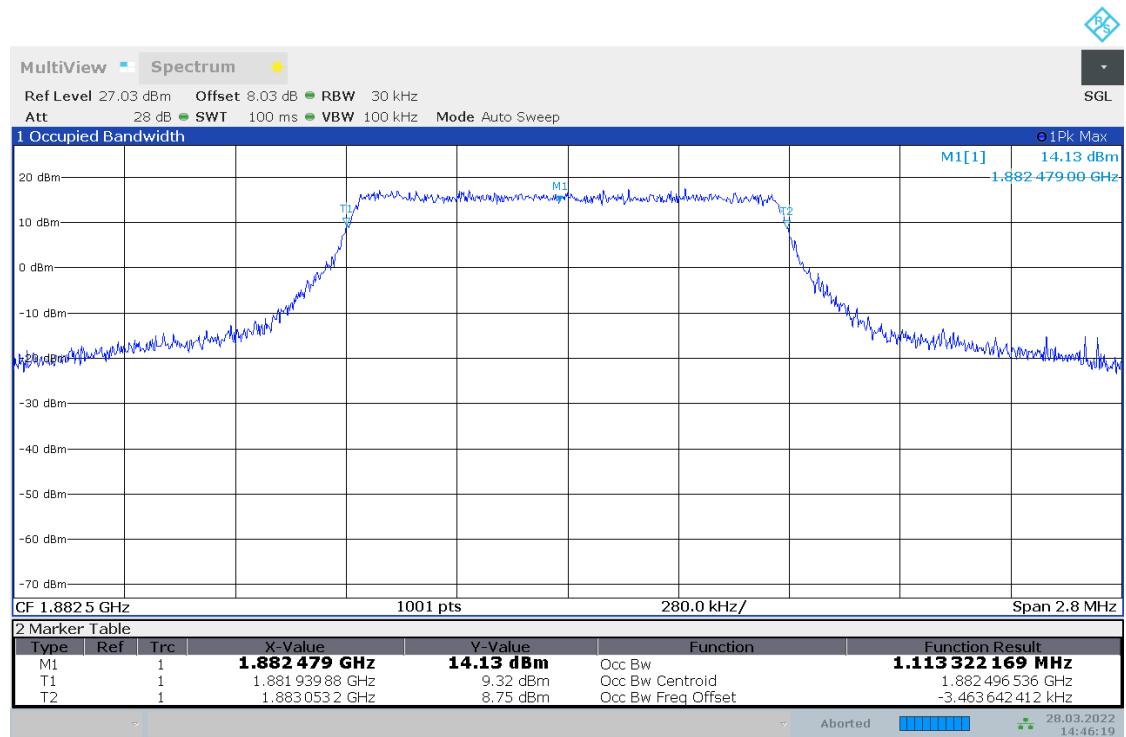
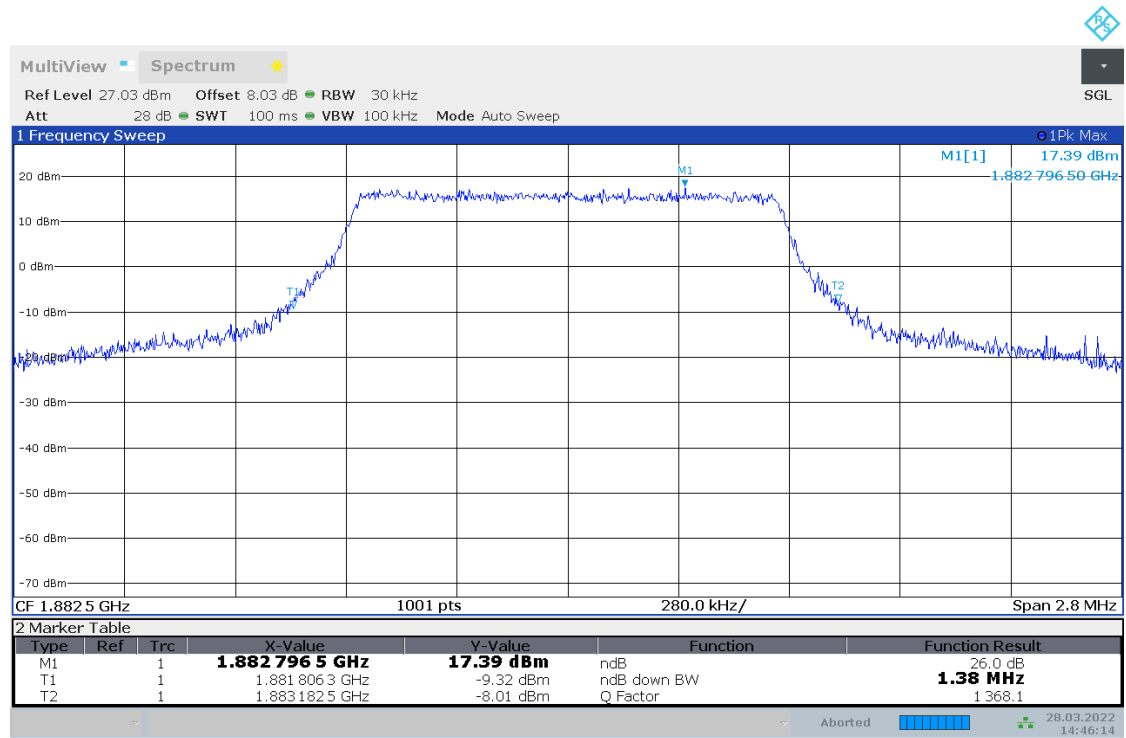


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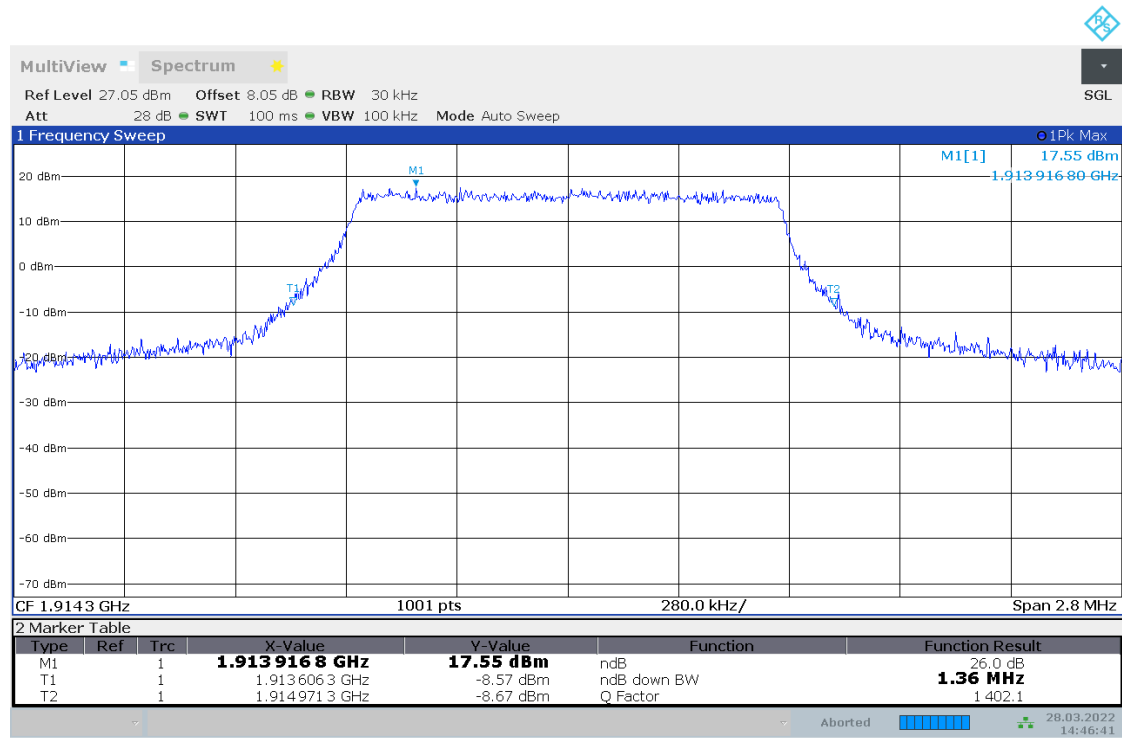


14:45:53 28.03.2022

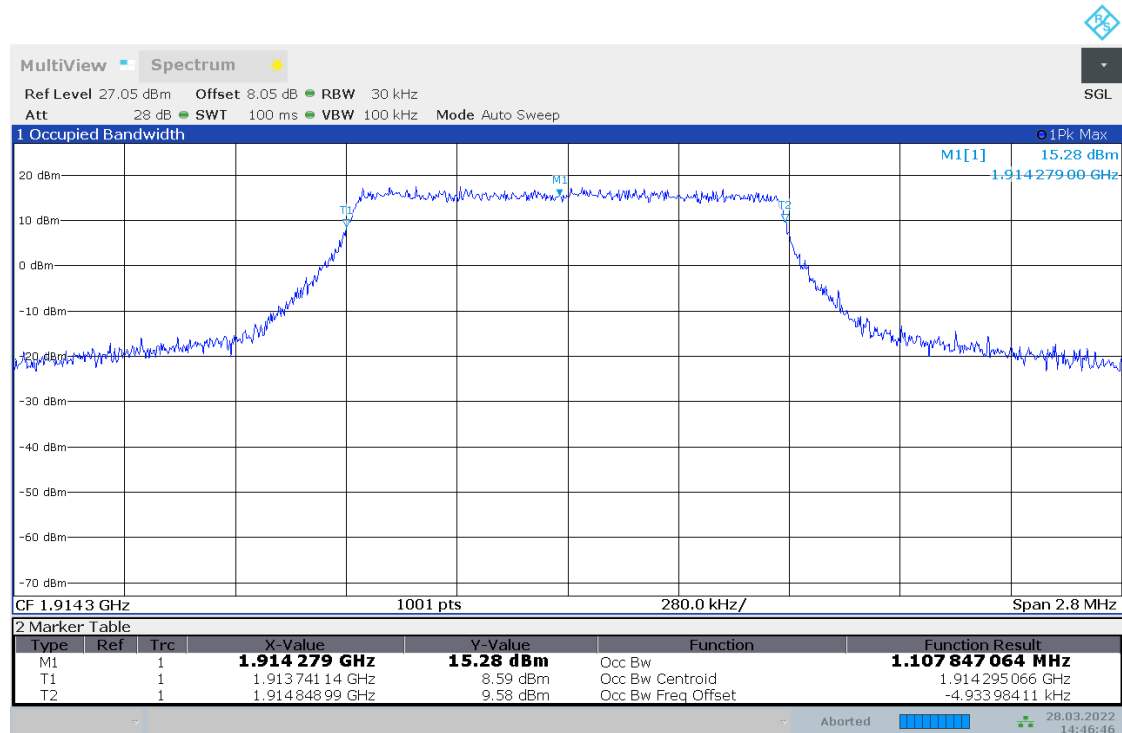
4.2.20 TM2_1.4MHZ_MCH_RB6#0



4.2.21 TM2_1.4MHZ_HCH_RB6#0

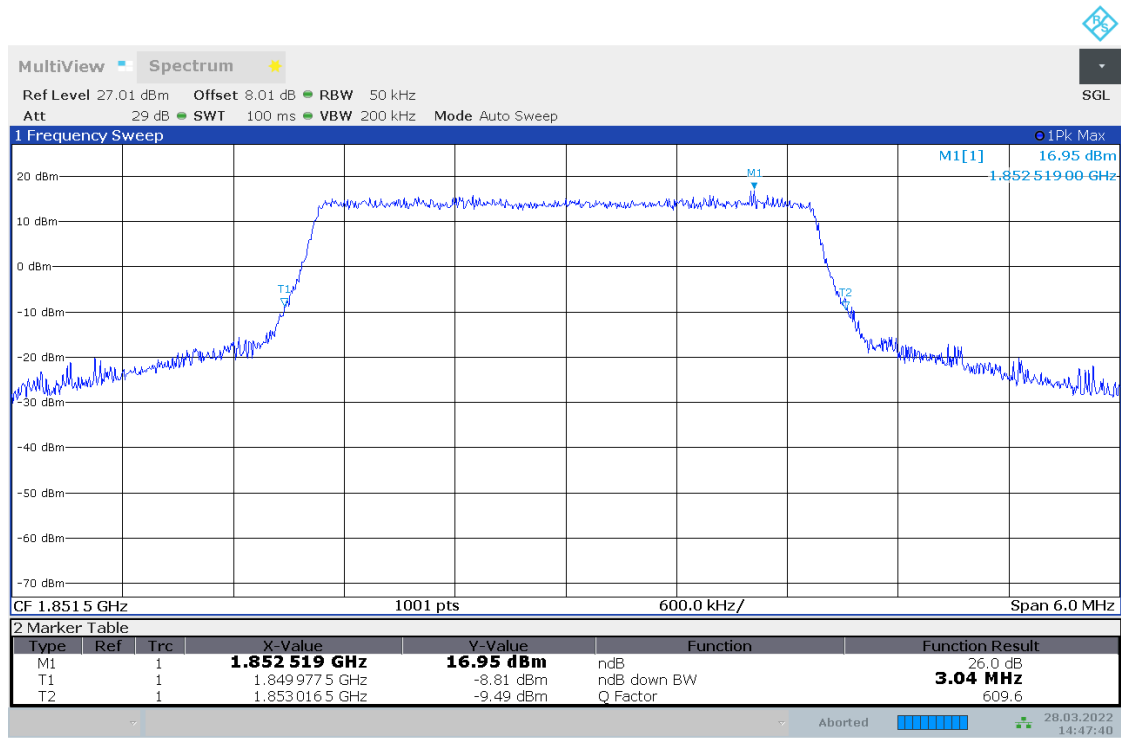


14:46:42 28.03.2022

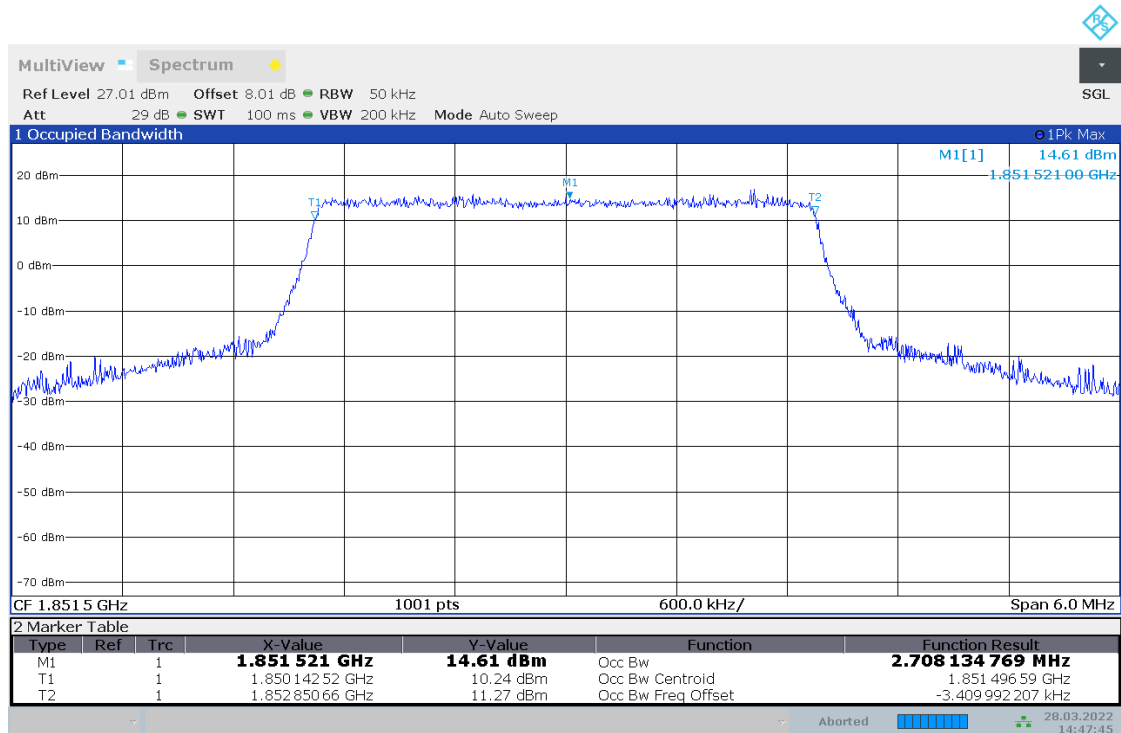


14:46:47 28.03.2022

4.2.22 TM2_3MHZ_LCH_RB15#0

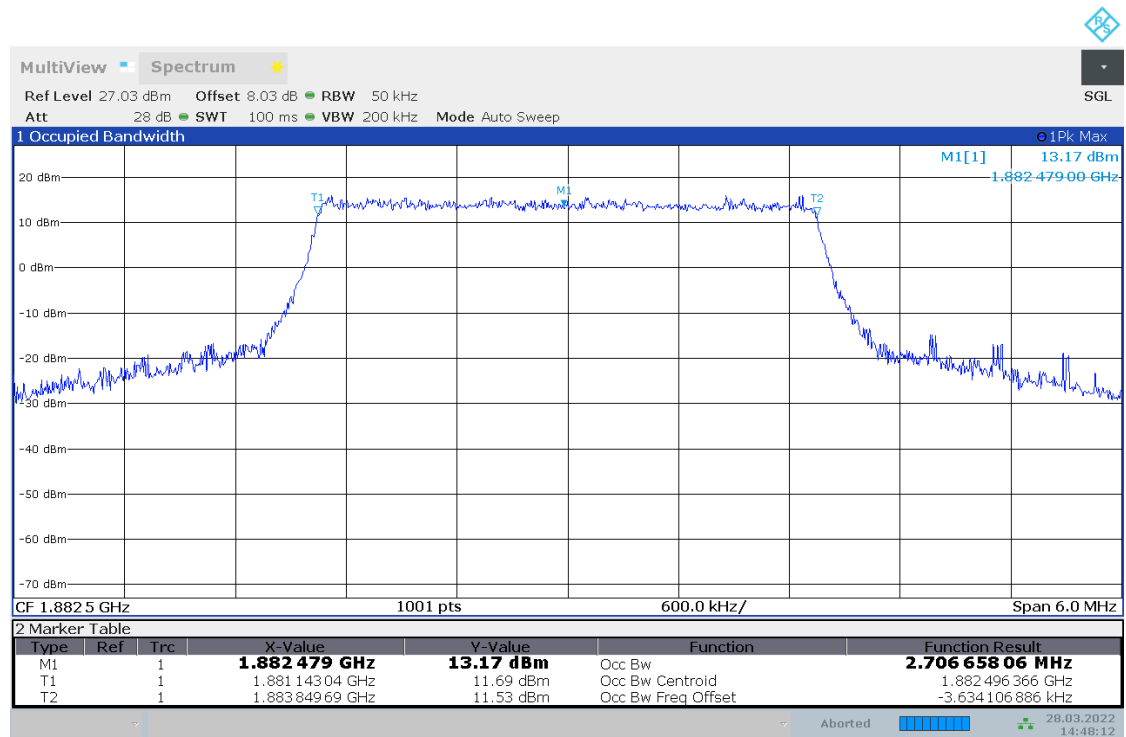
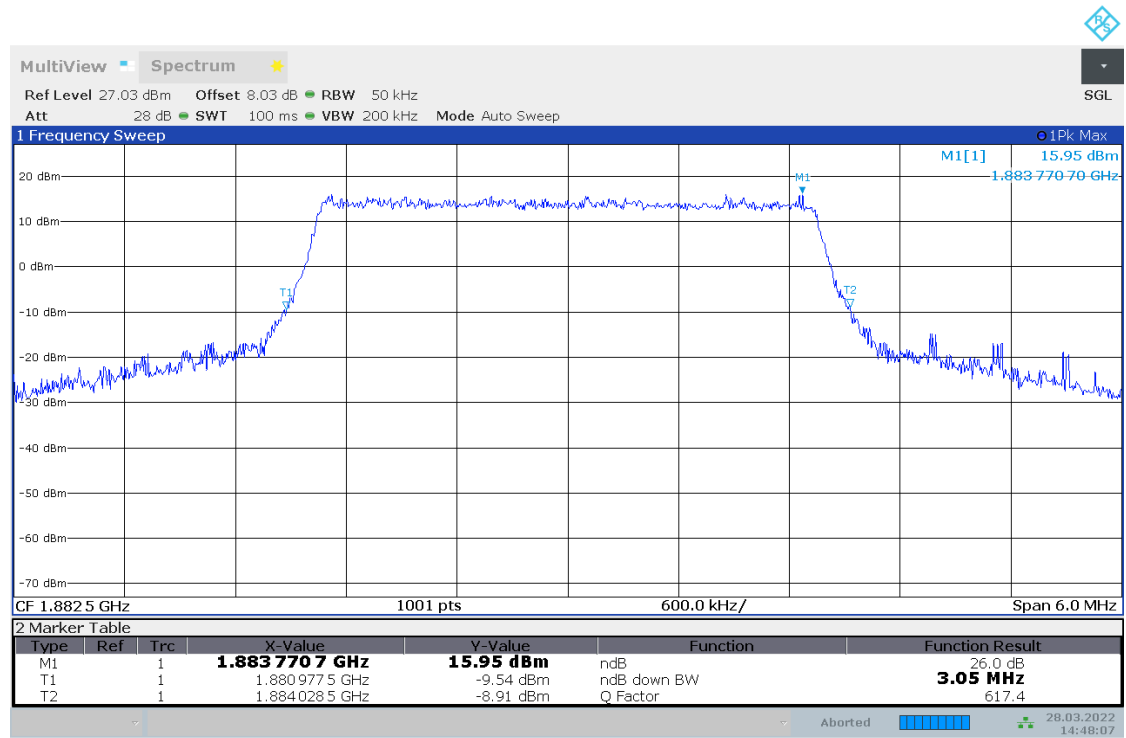


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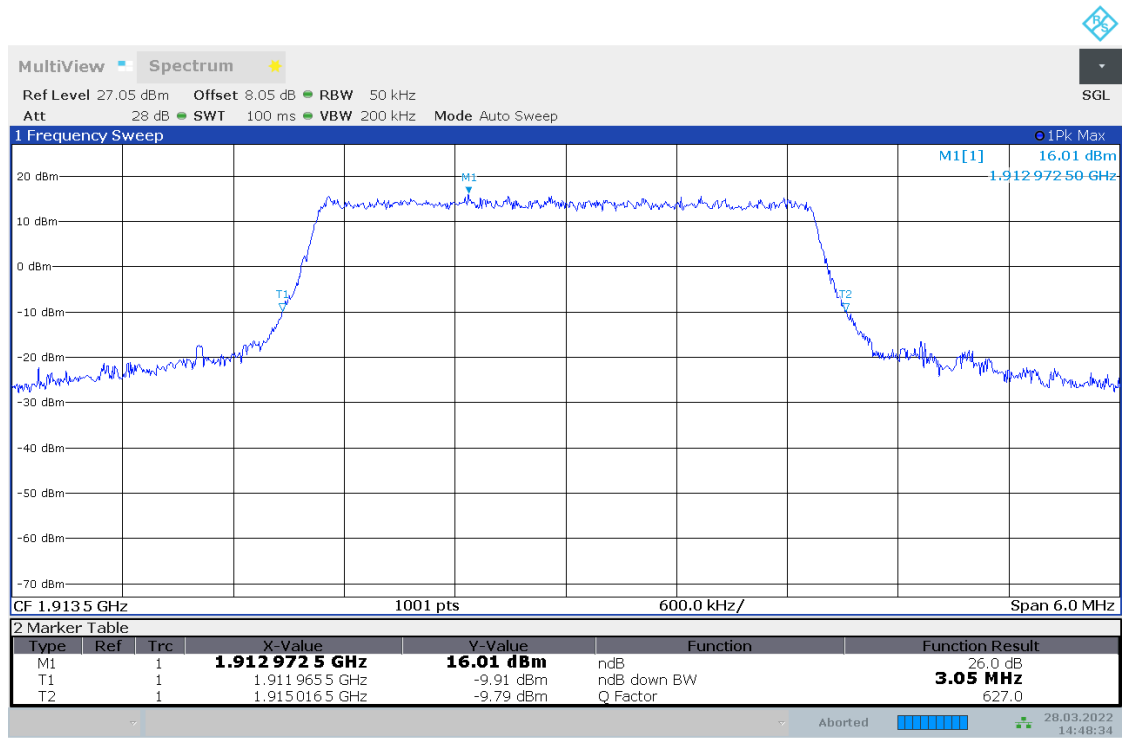


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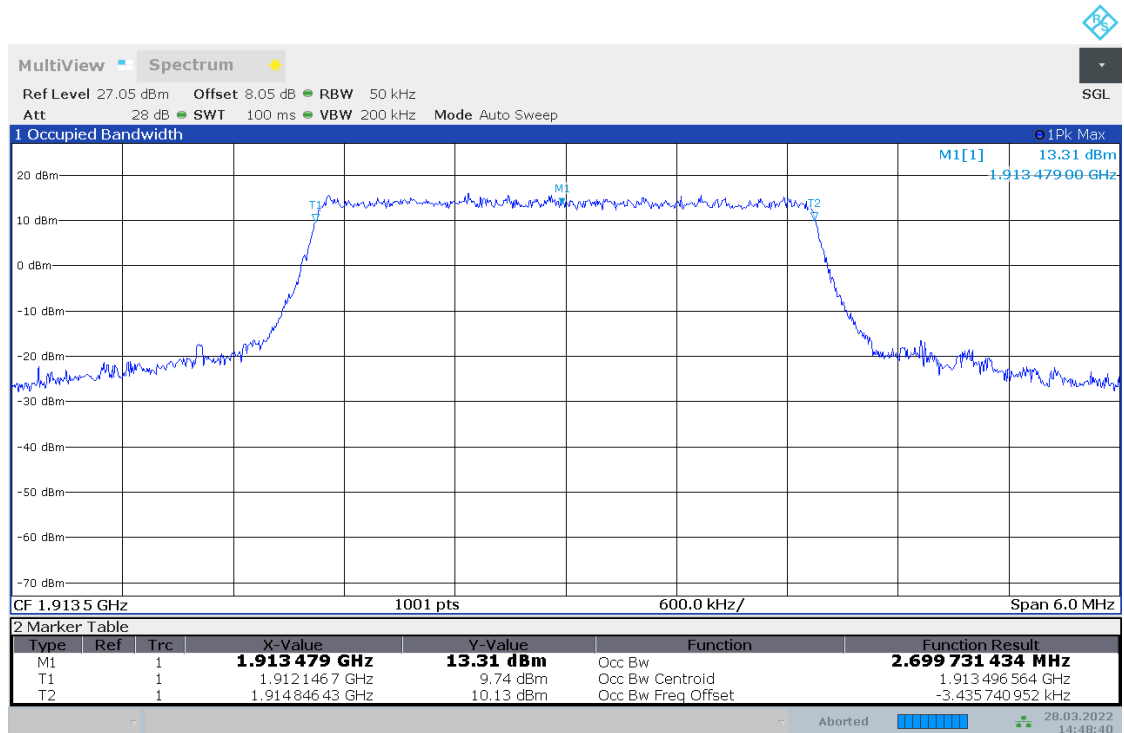
4.2.23 TM2_3MHZ_MCH_RB15#0



4.2.24 TM2_3MHZ_HCH_RB15#0

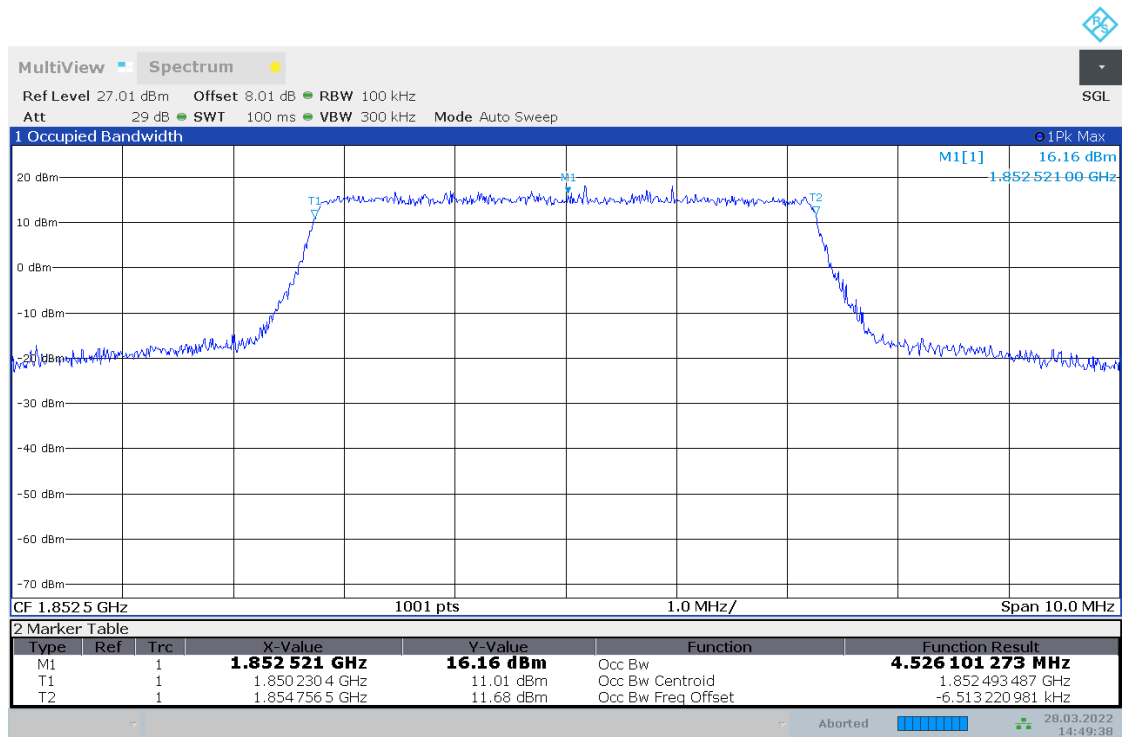
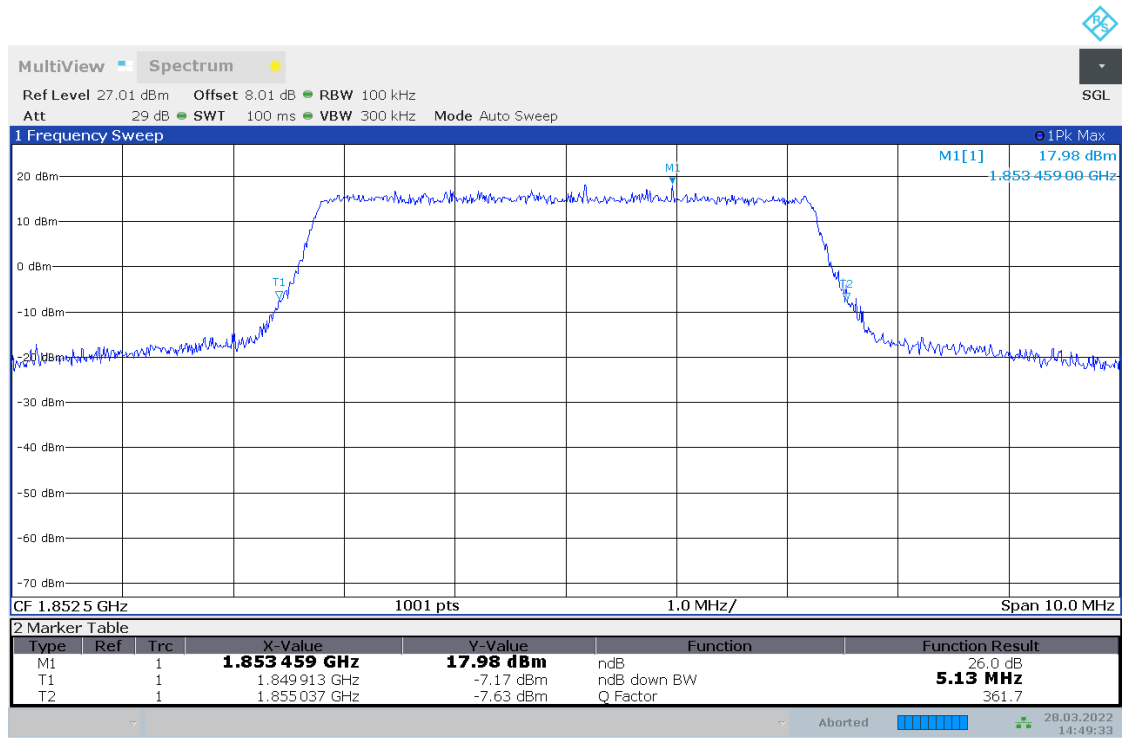


14:48:35 28.03.2022

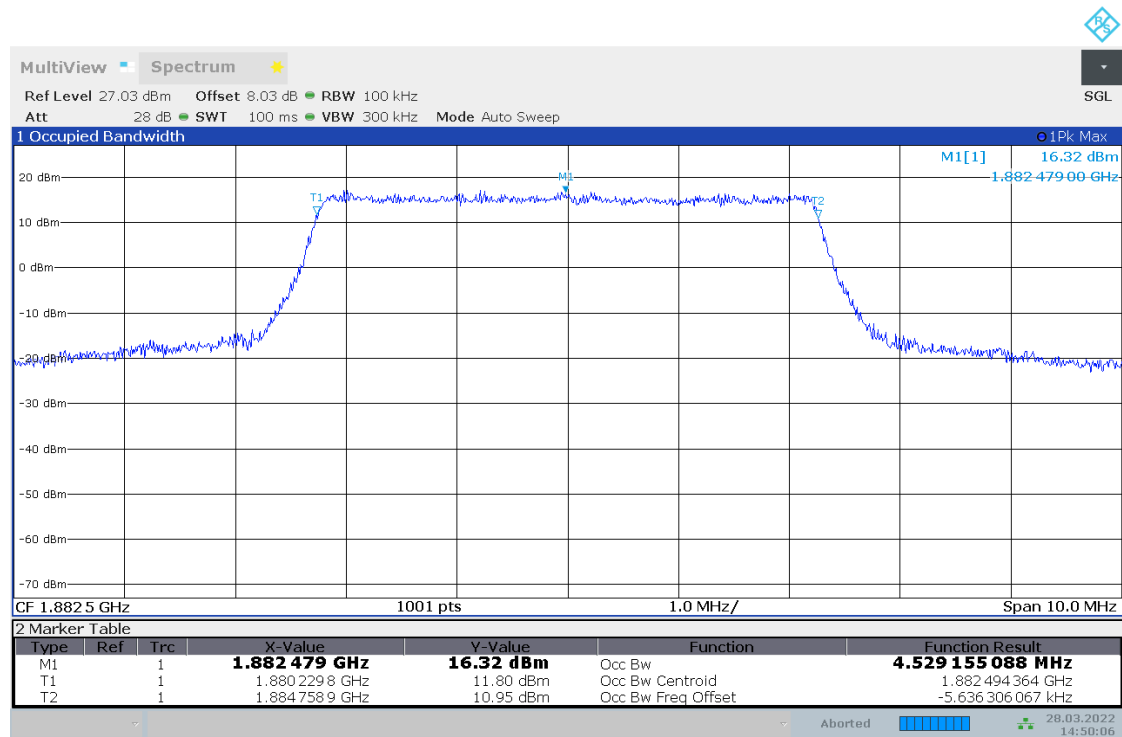
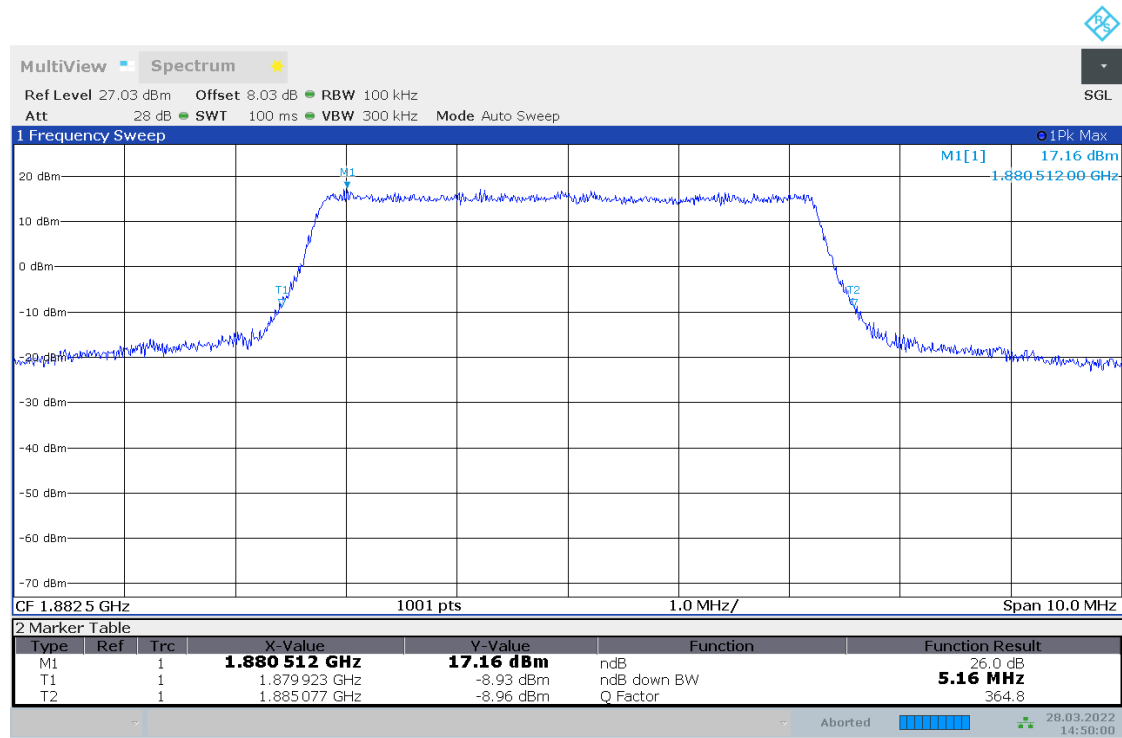


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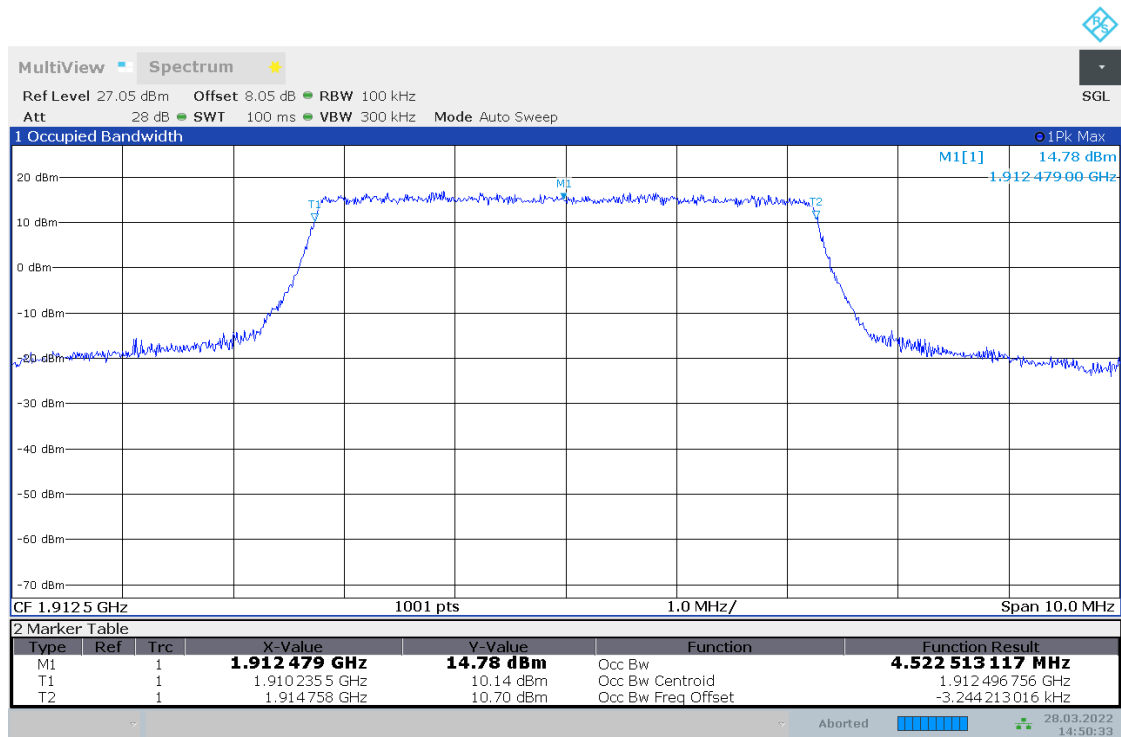
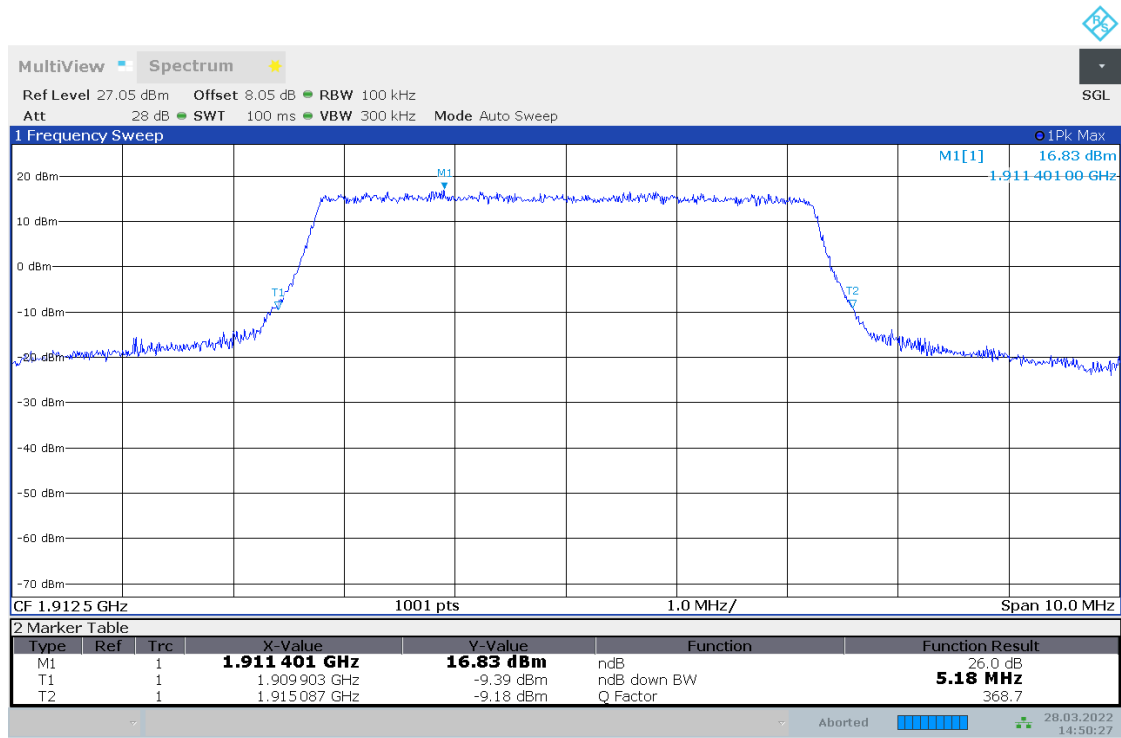
4.2.25 TM2_5MHZ_LCH_RB25#0



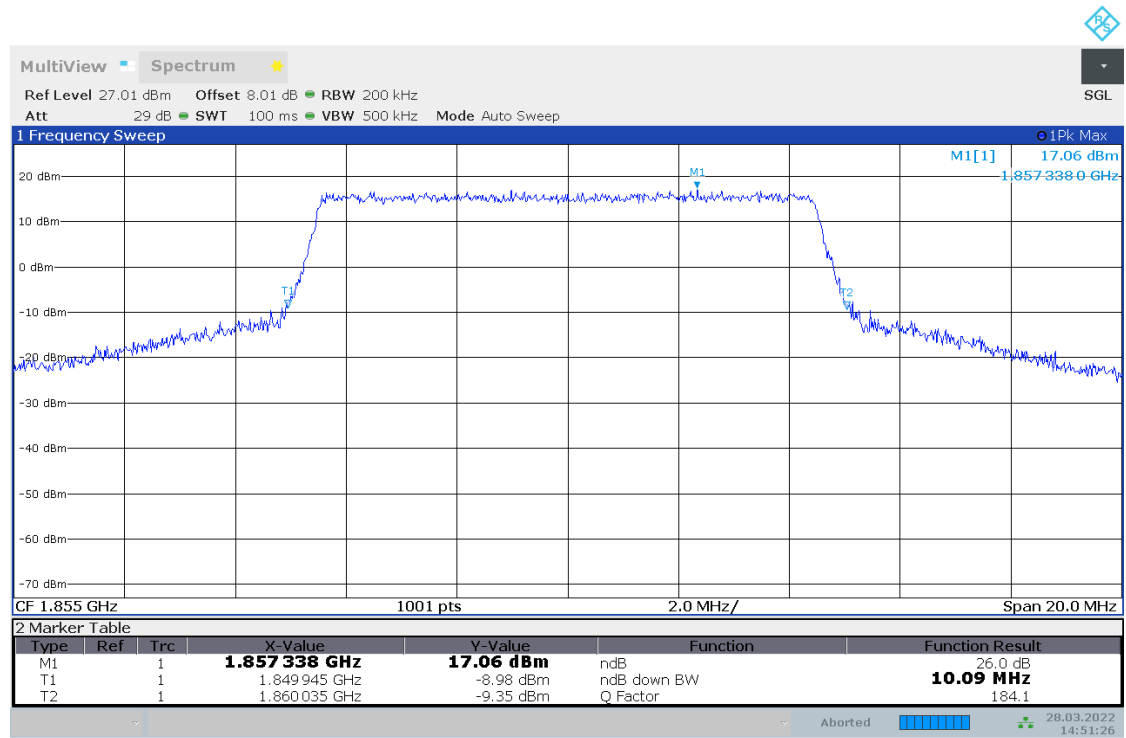
4.2.26 TM2_5MHZ_MCH_RB25#0



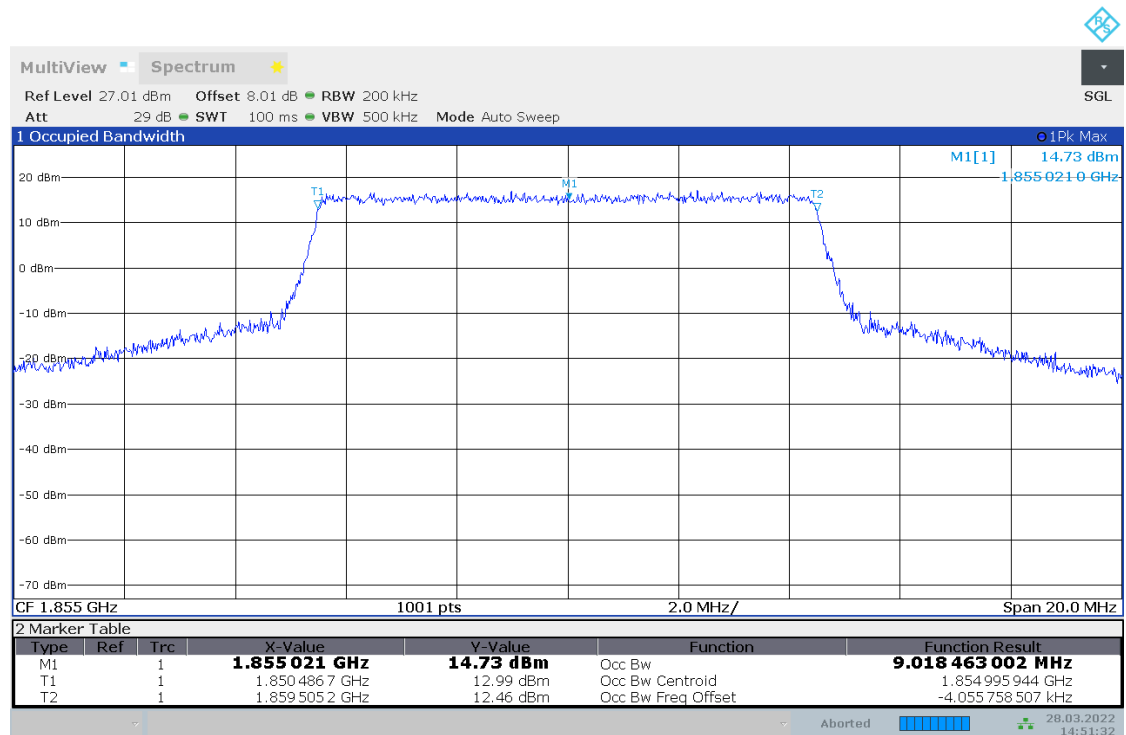
4.2.27 TM2_5MHZ_HCH_RB25#0



4.2.28 TM2_10MHZ_LCH_RB50#0

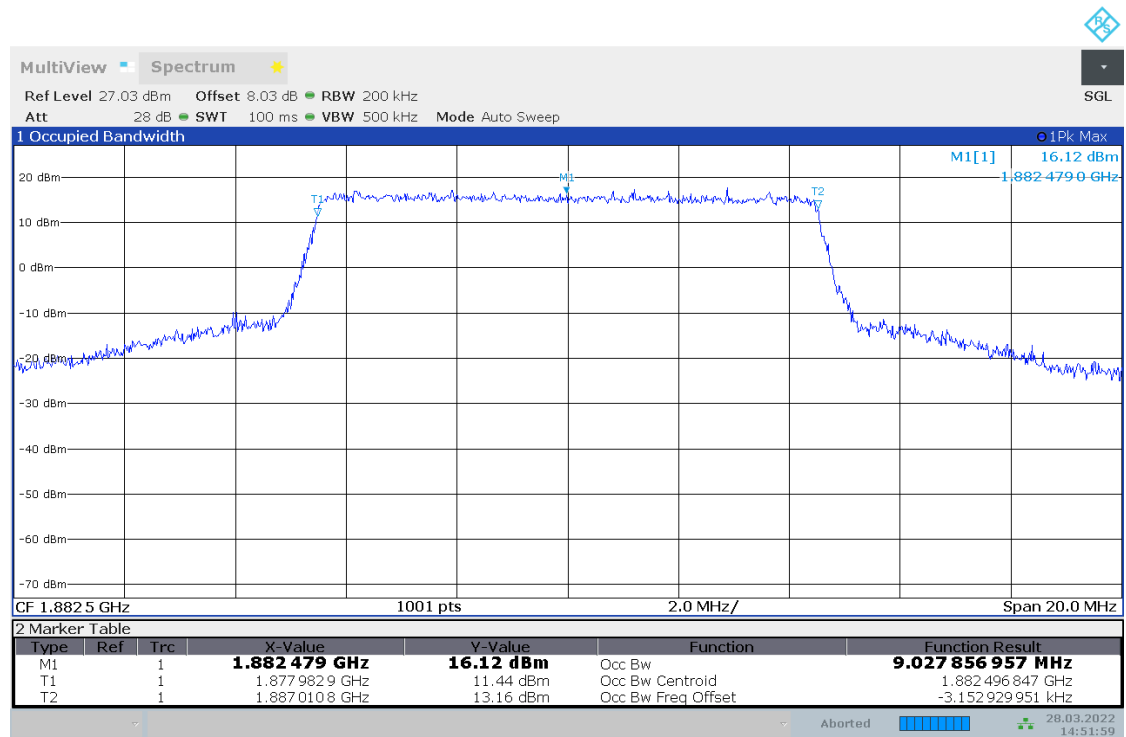
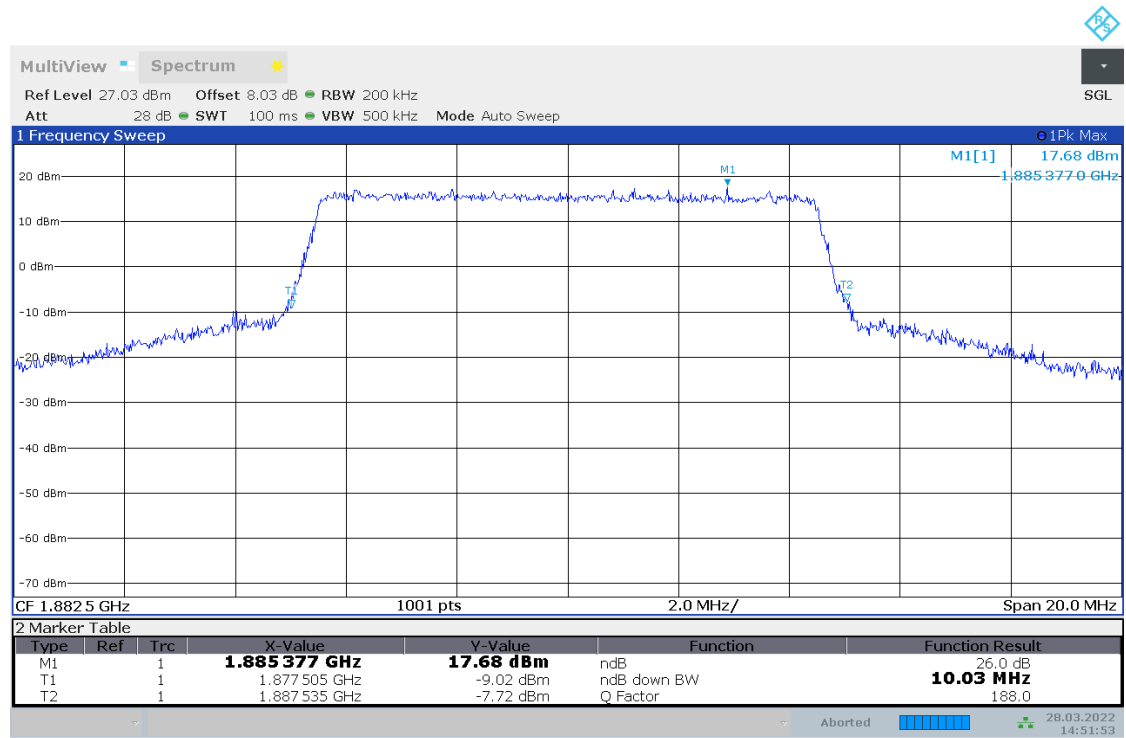


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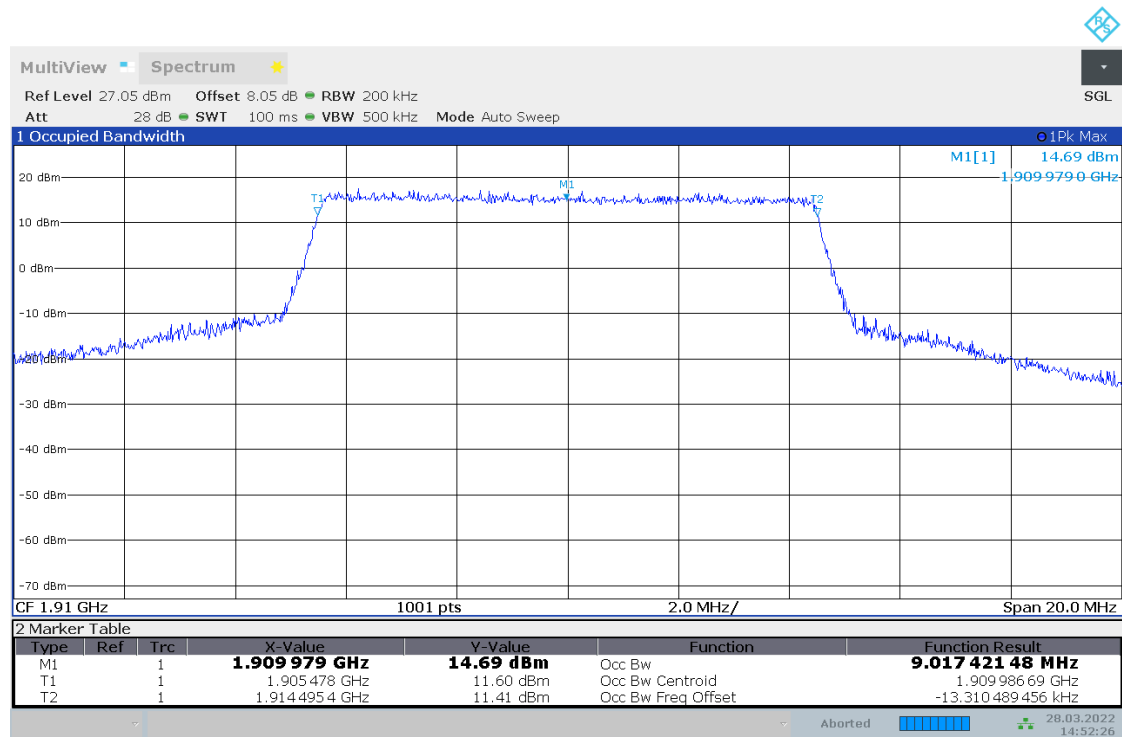
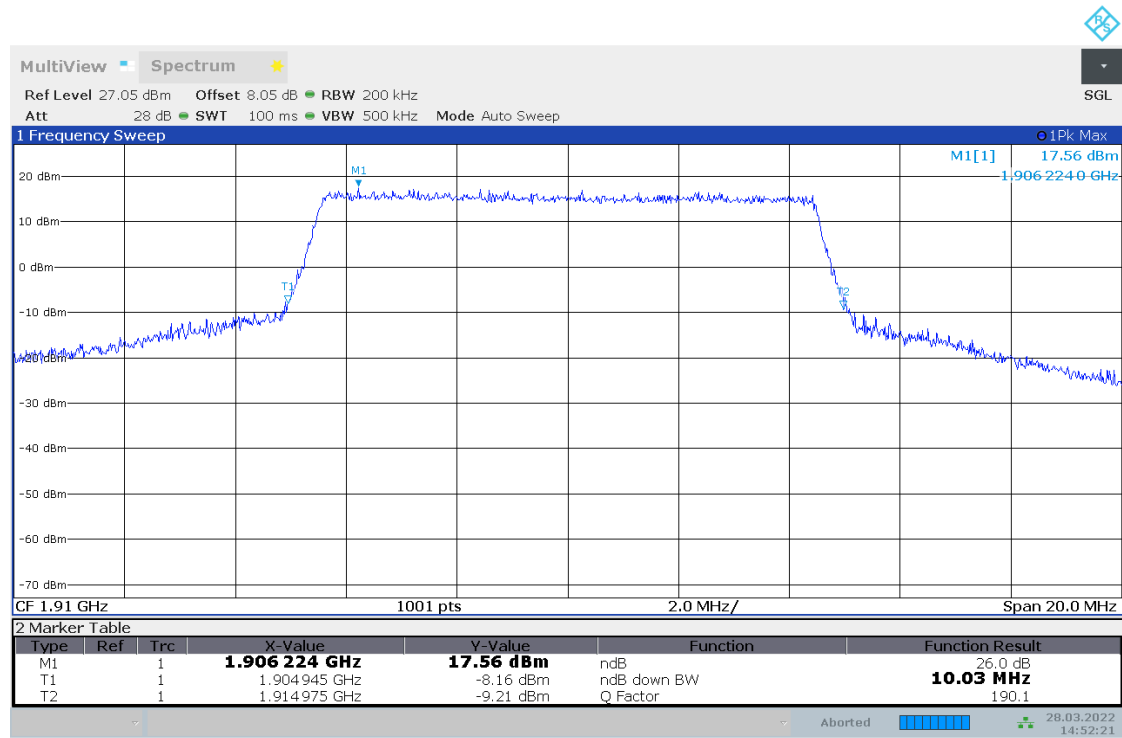


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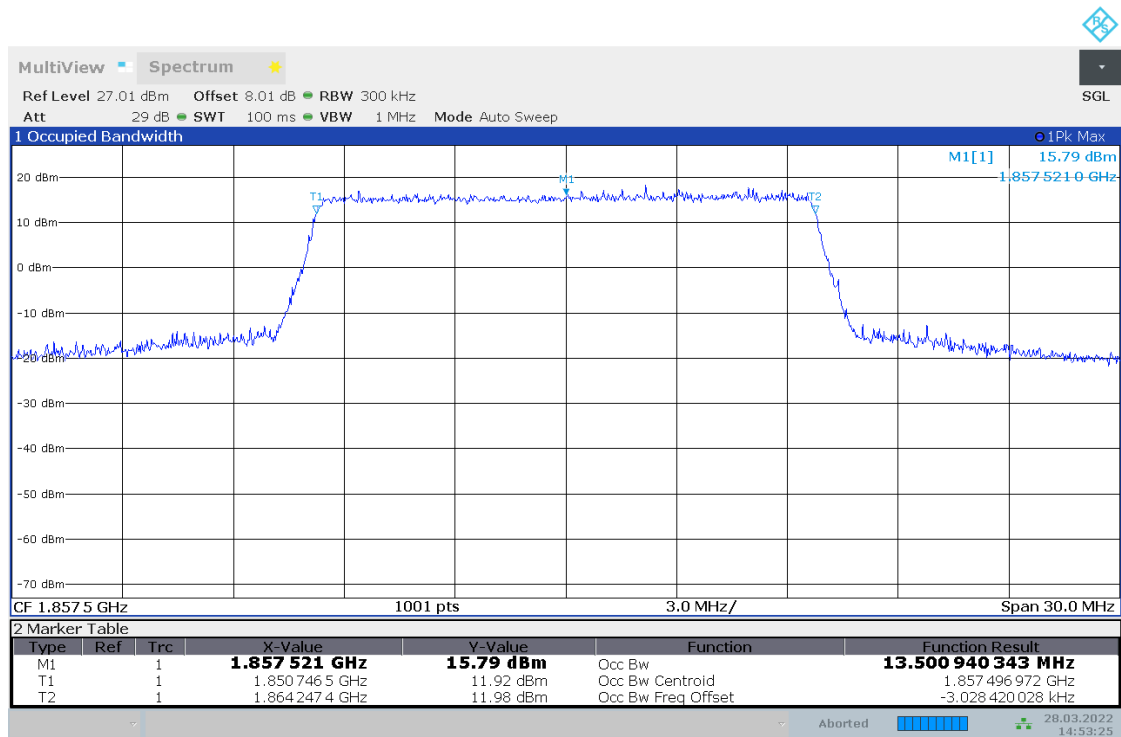
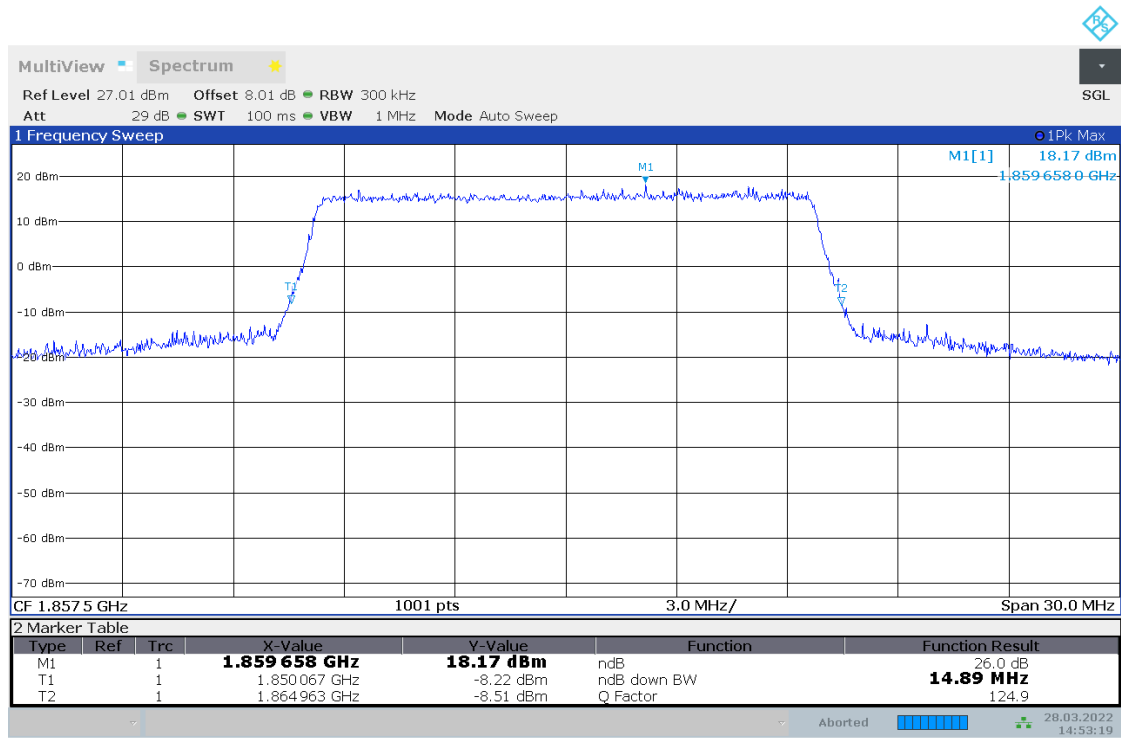
4.2.29 TM2_10MHZ_MCH_RB50#0



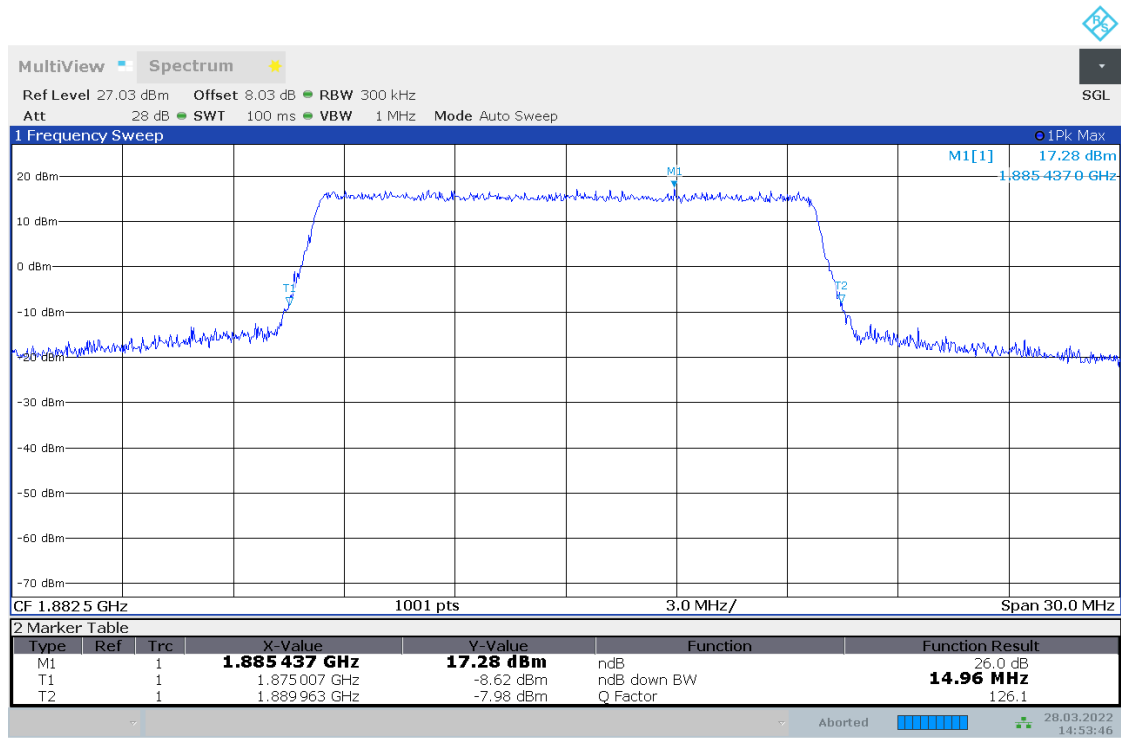
4.2.30 TM2_10MHZ_HCH_RB50#0



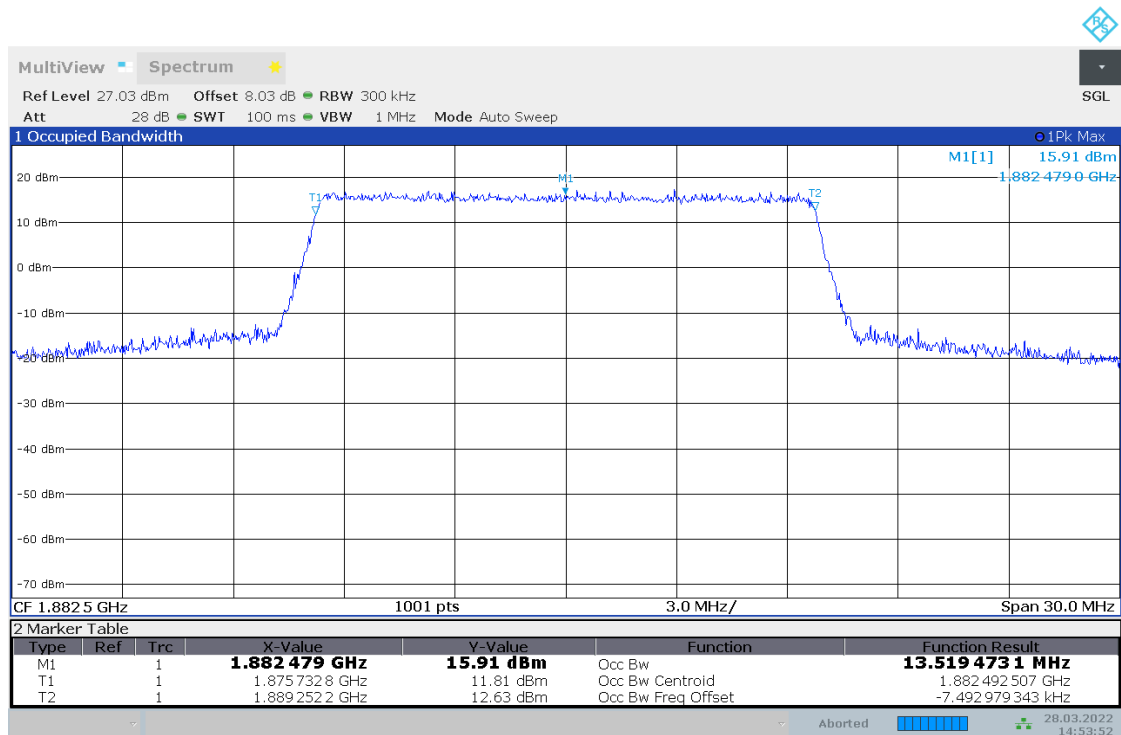
4.2.31 TM2_15MHZ_LCH_RB75#0



4.2.32 TM2_15MHZ_MCH_RB75#0

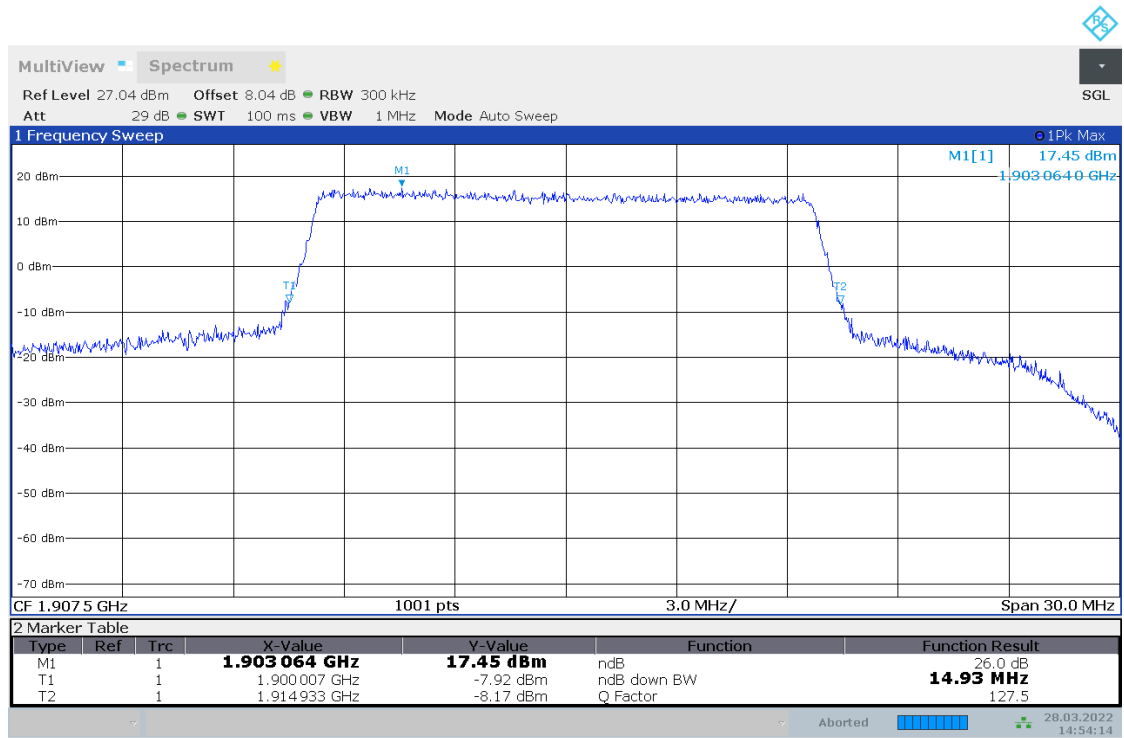


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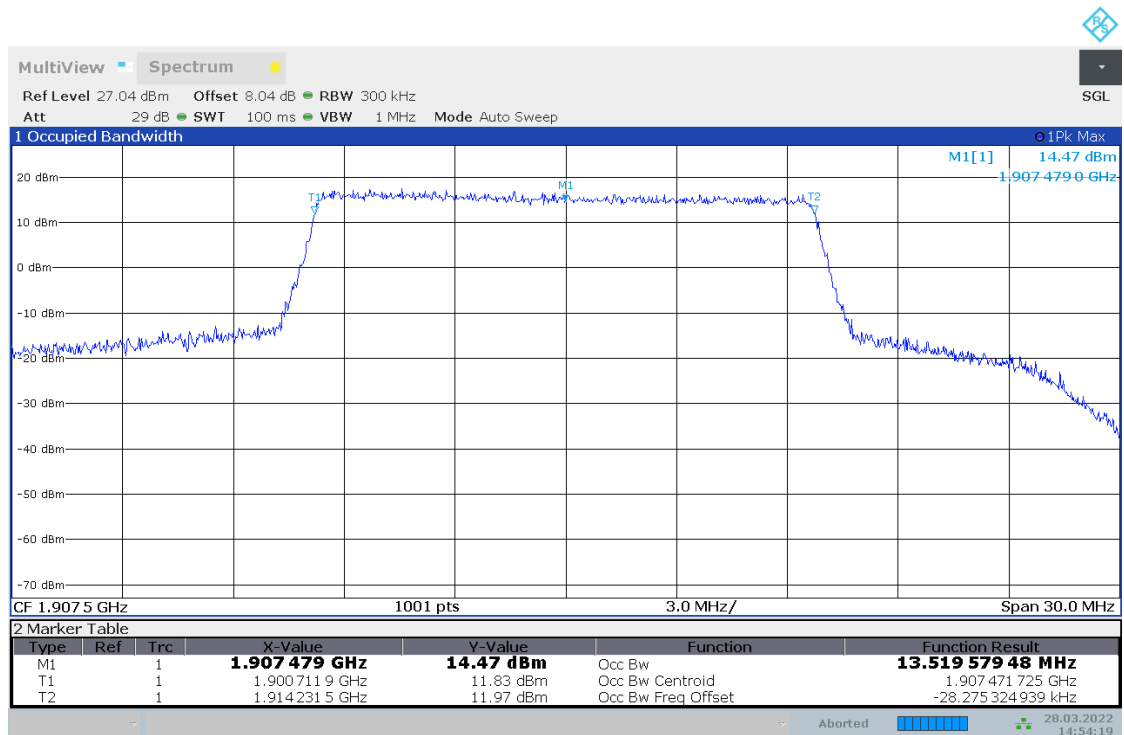


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4.2.33 TM2_15MHZ_HCH_RB75#0

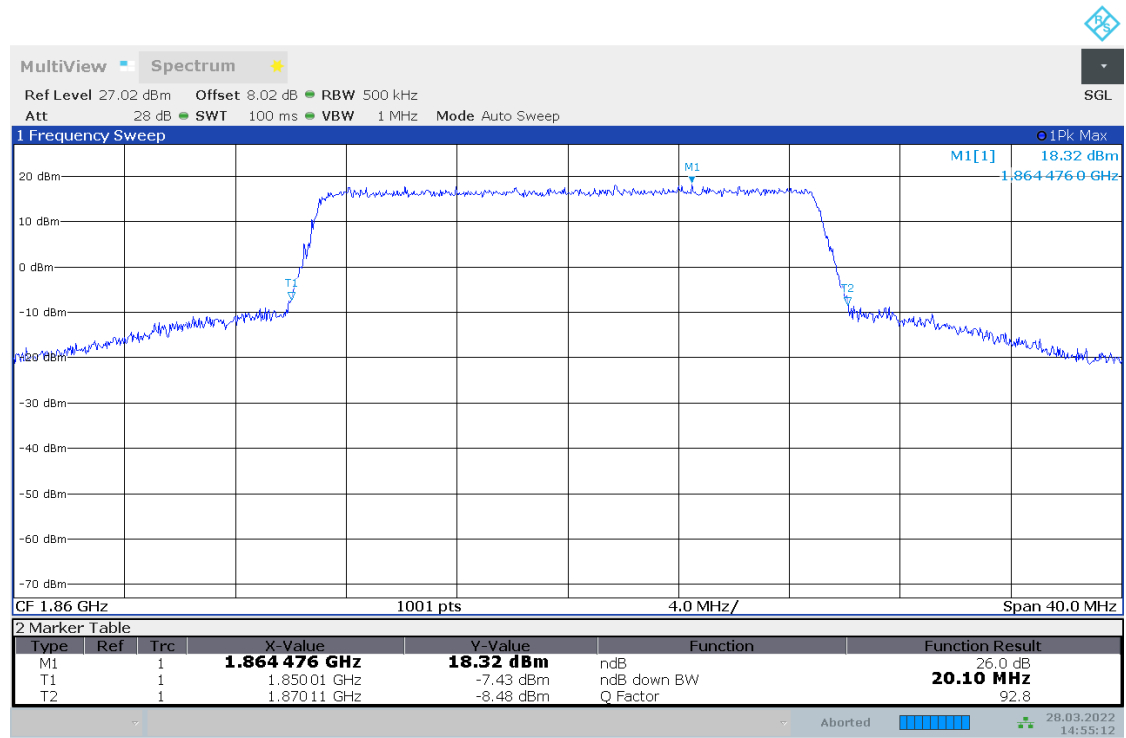


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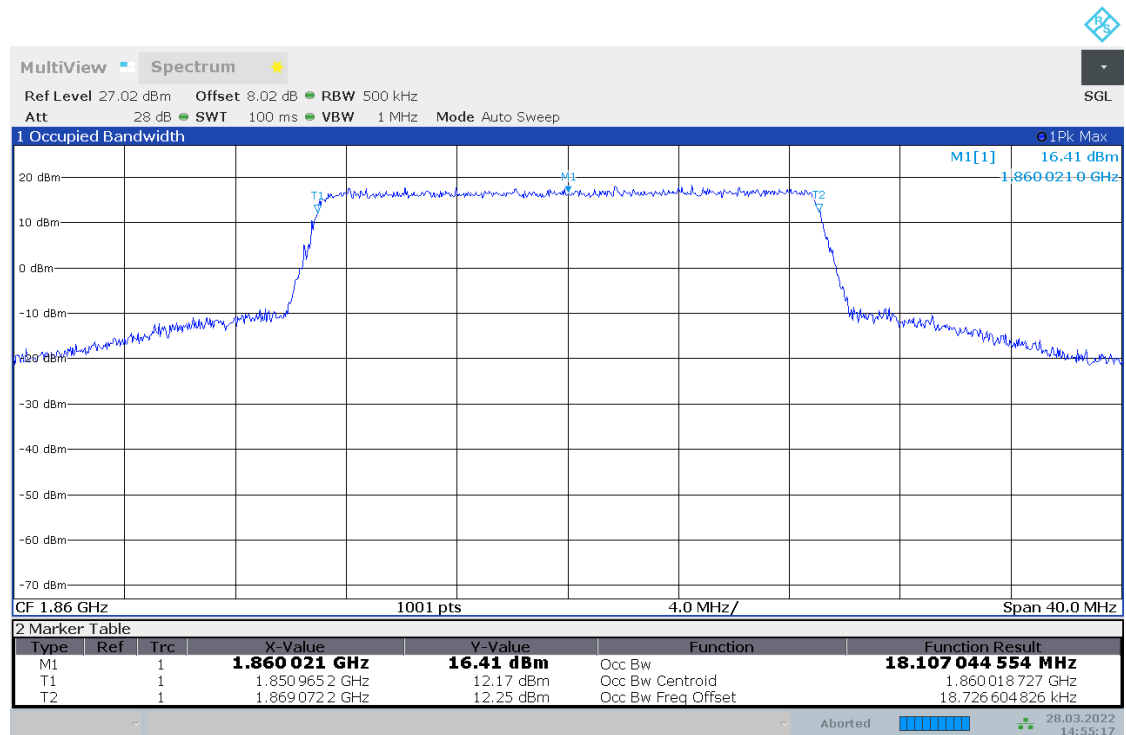


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4.2.34 TM2_20MHZ_LCH_RB100#0

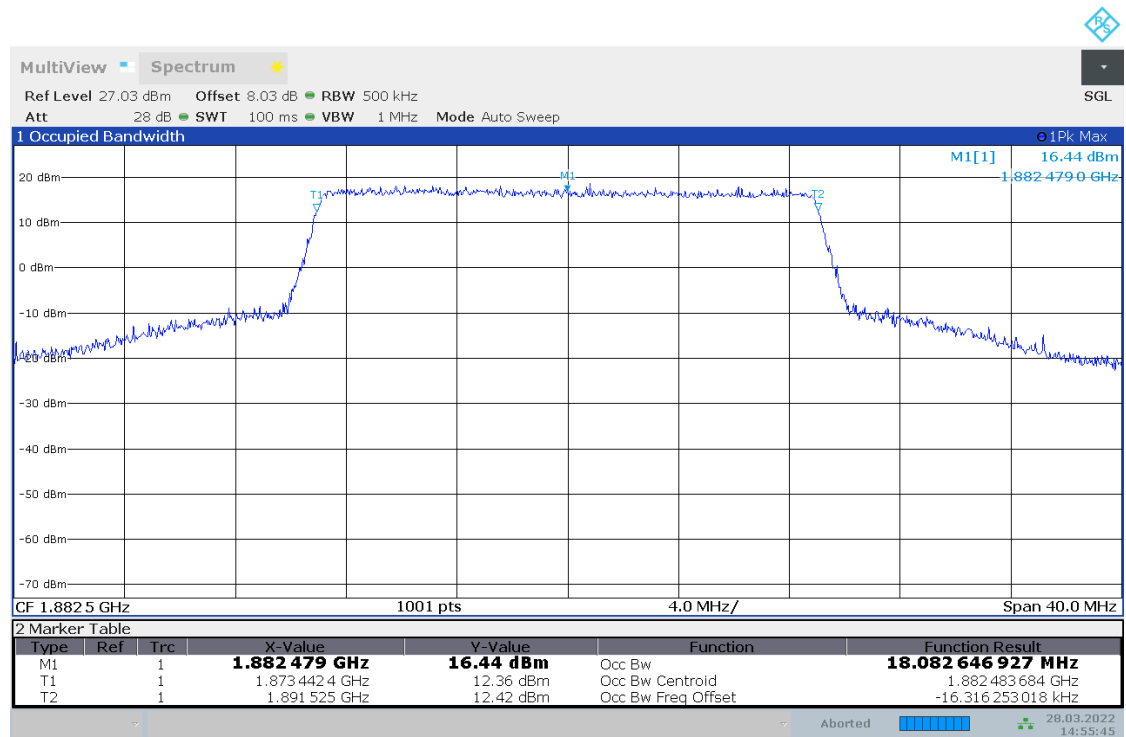
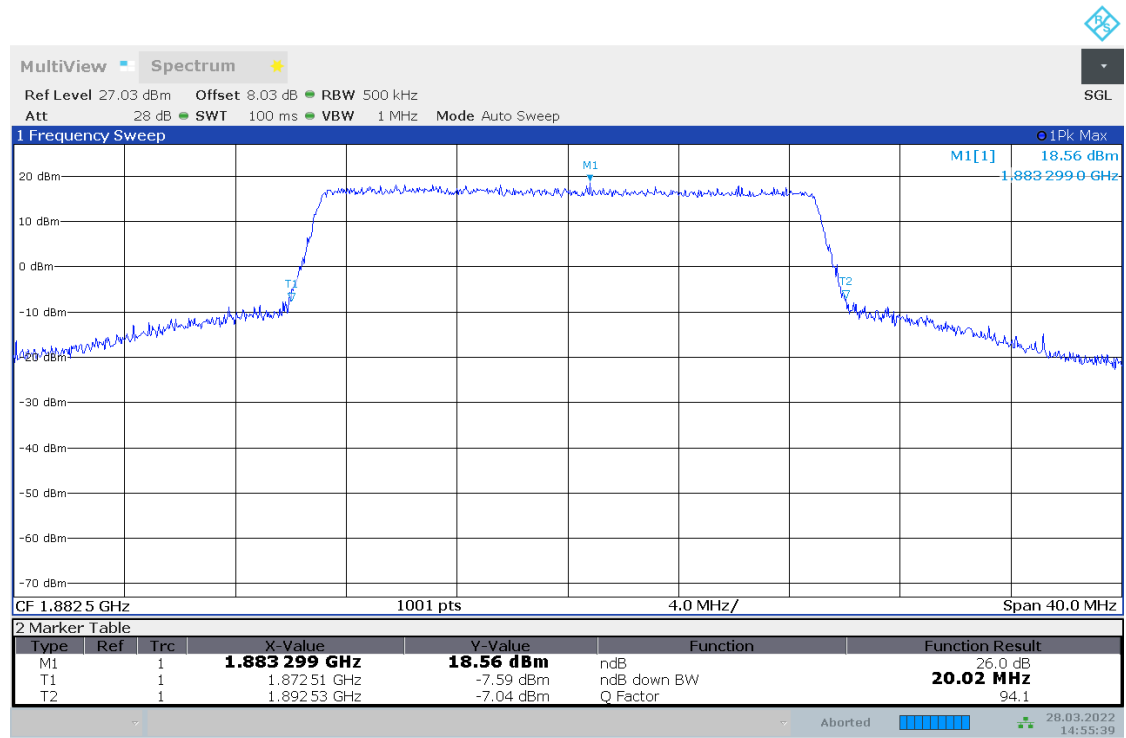


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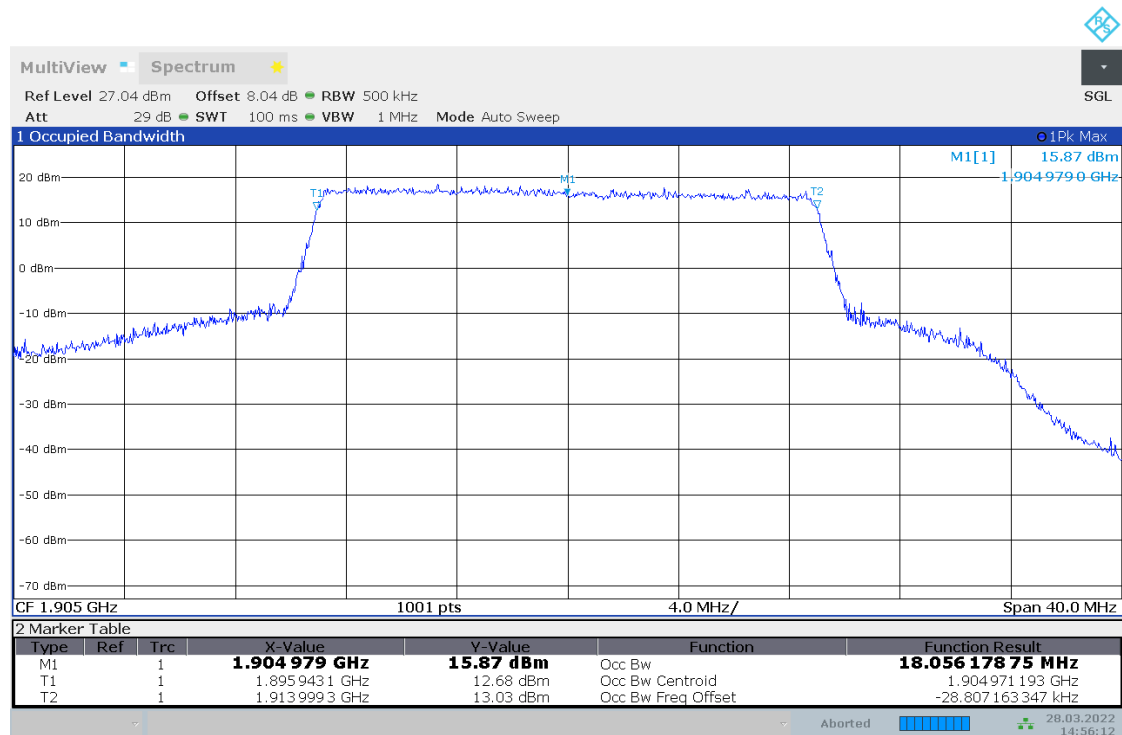
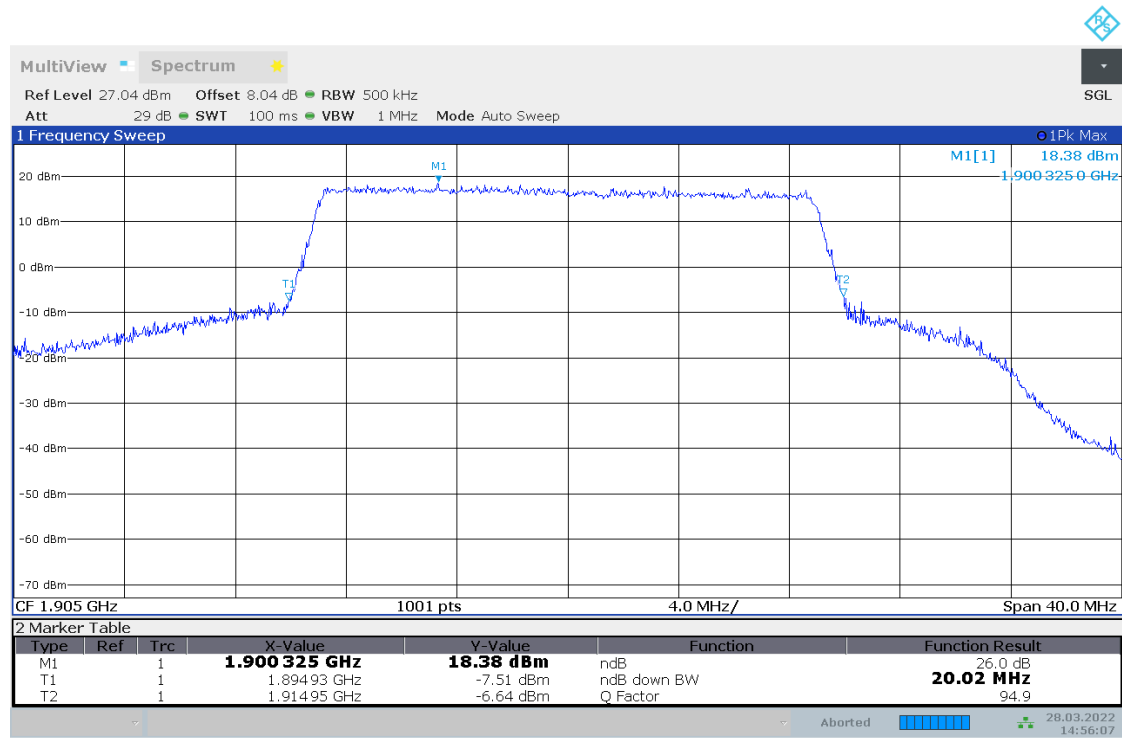


14:55:18 28.03.2022

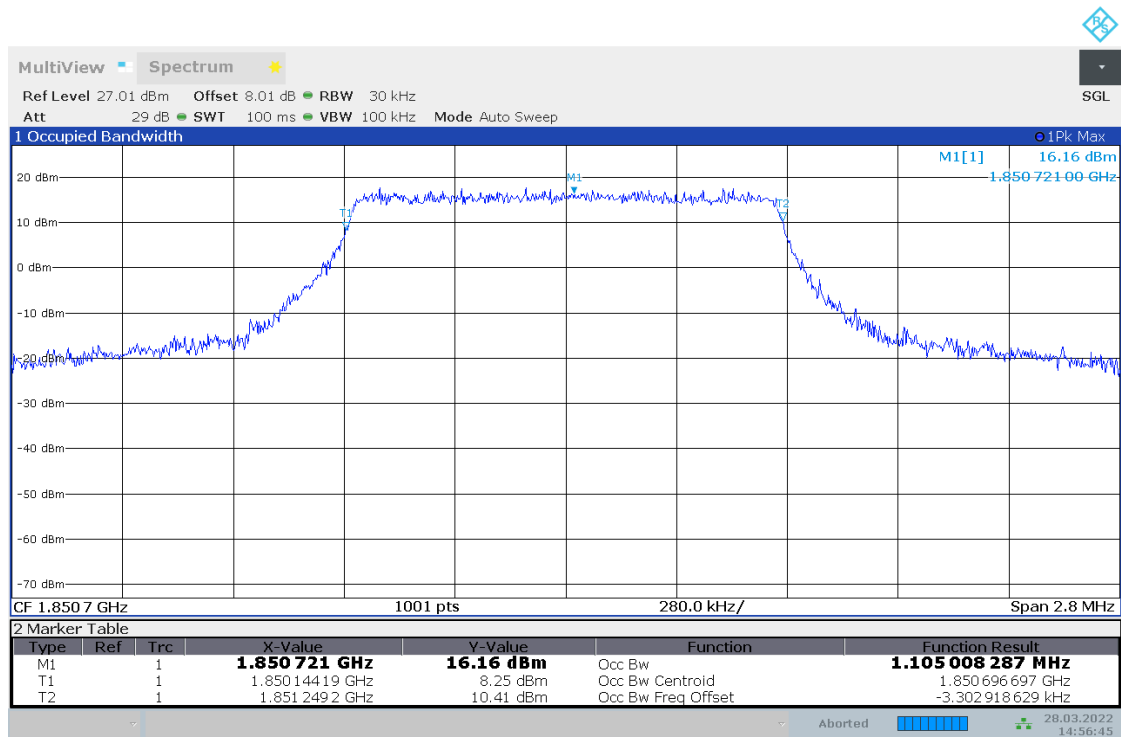
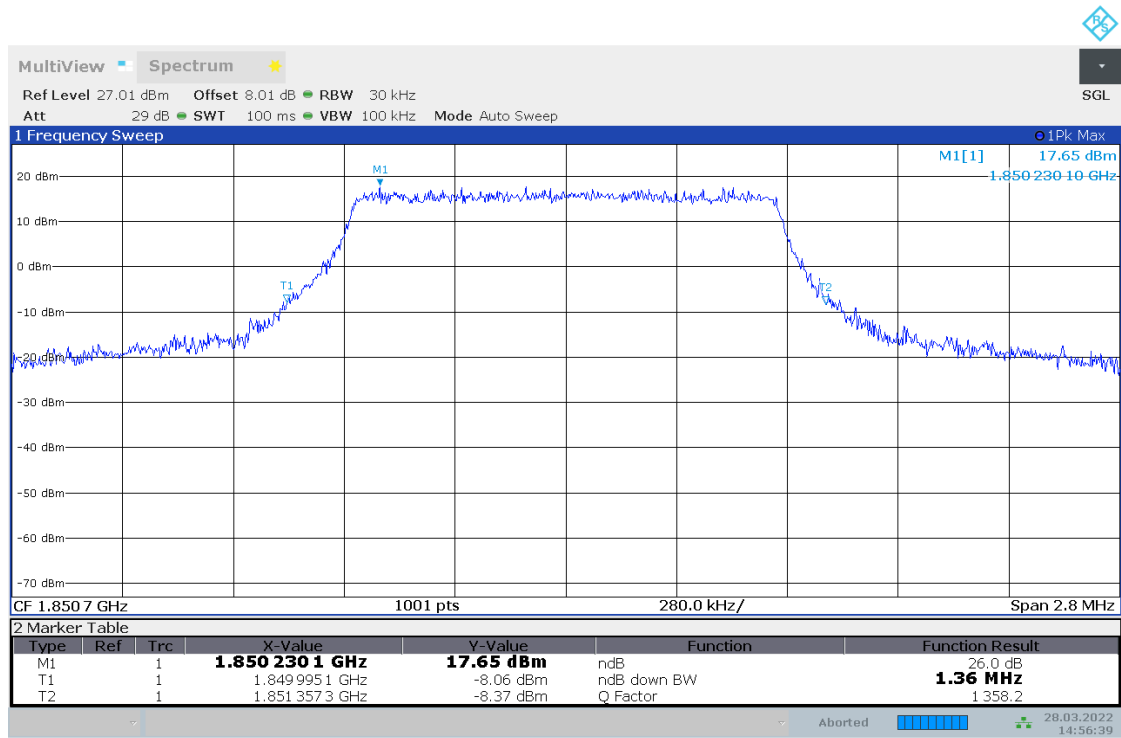
4.2.35 TM2_20MHZ_MCH_RB100#0



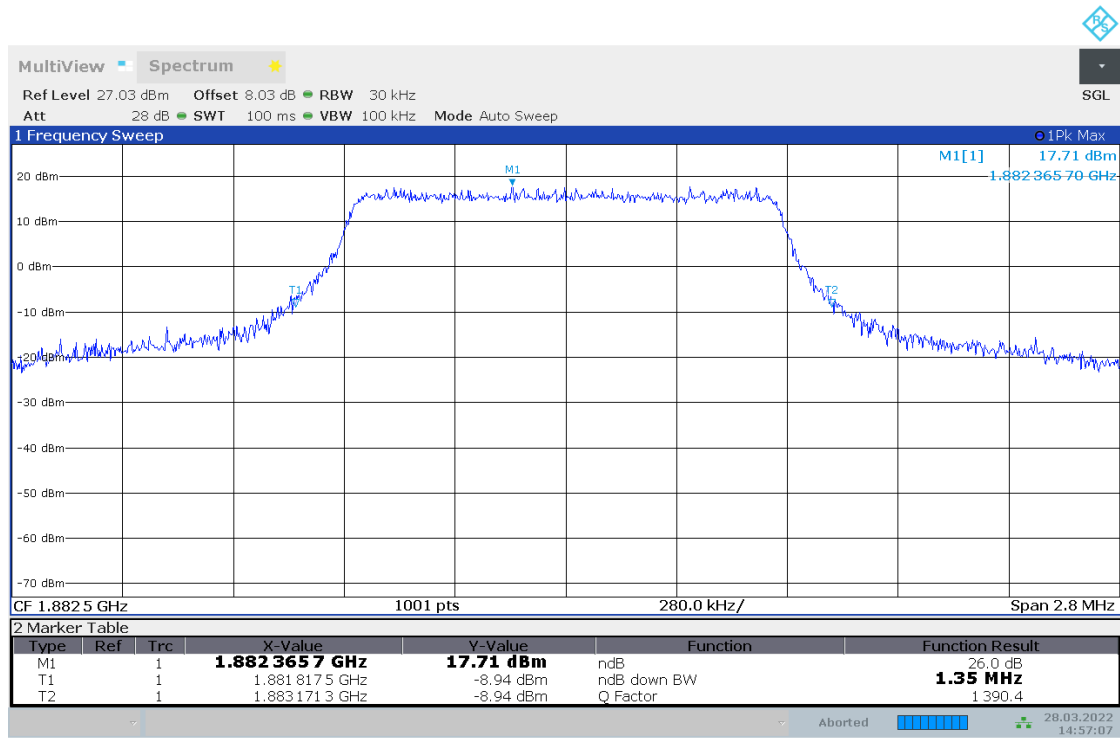
4.2.36 TM2_20MHZ_HCH_RB100#0



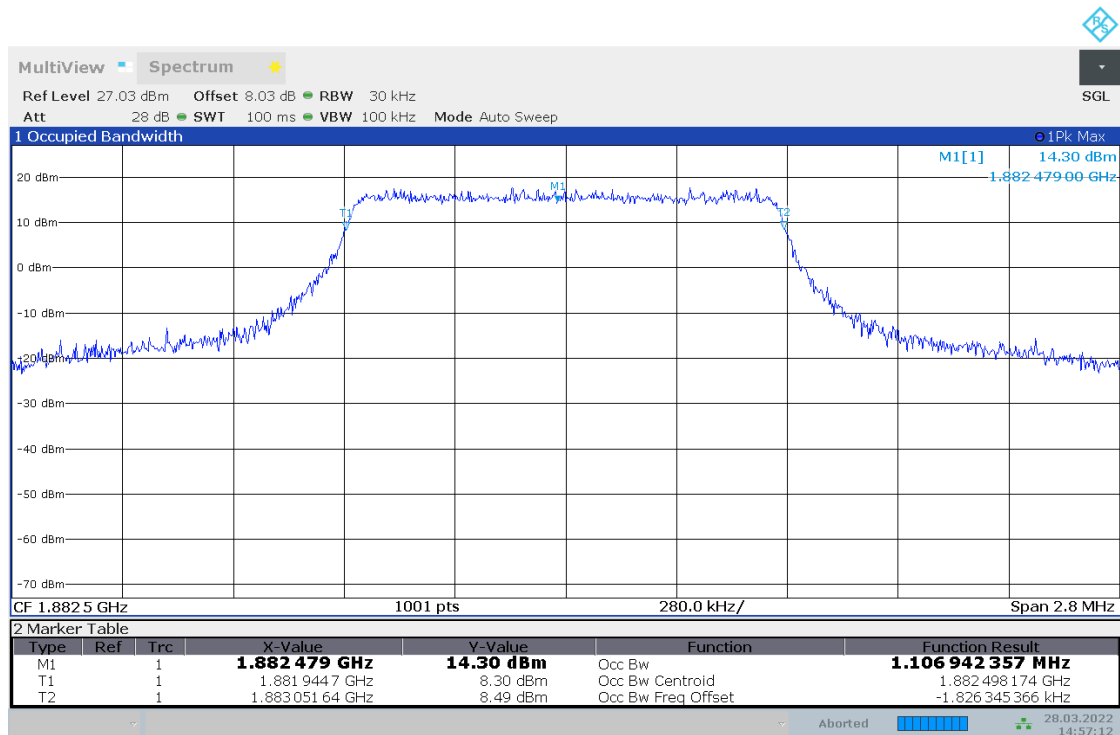
4.2.37 TM3_1.4MHZ_LCH_RB6#0



4.2.38 TM3_1.4MHZ_MCH_RB6#0

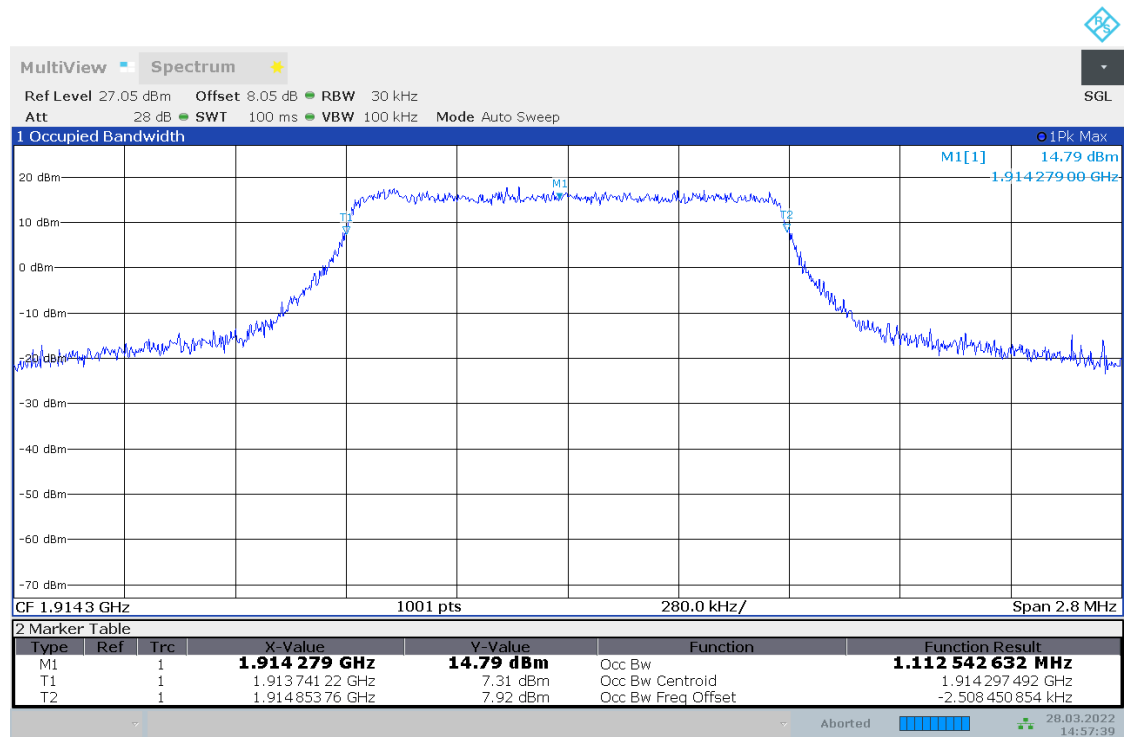
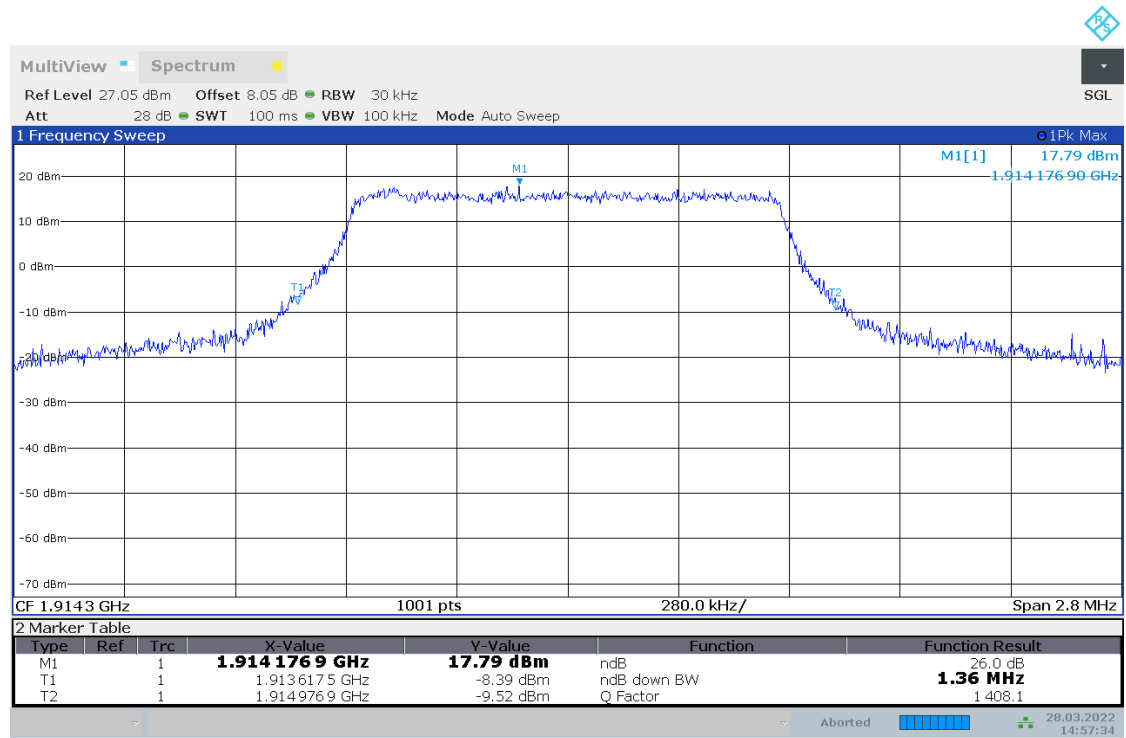


14:57:07 28.03.2022

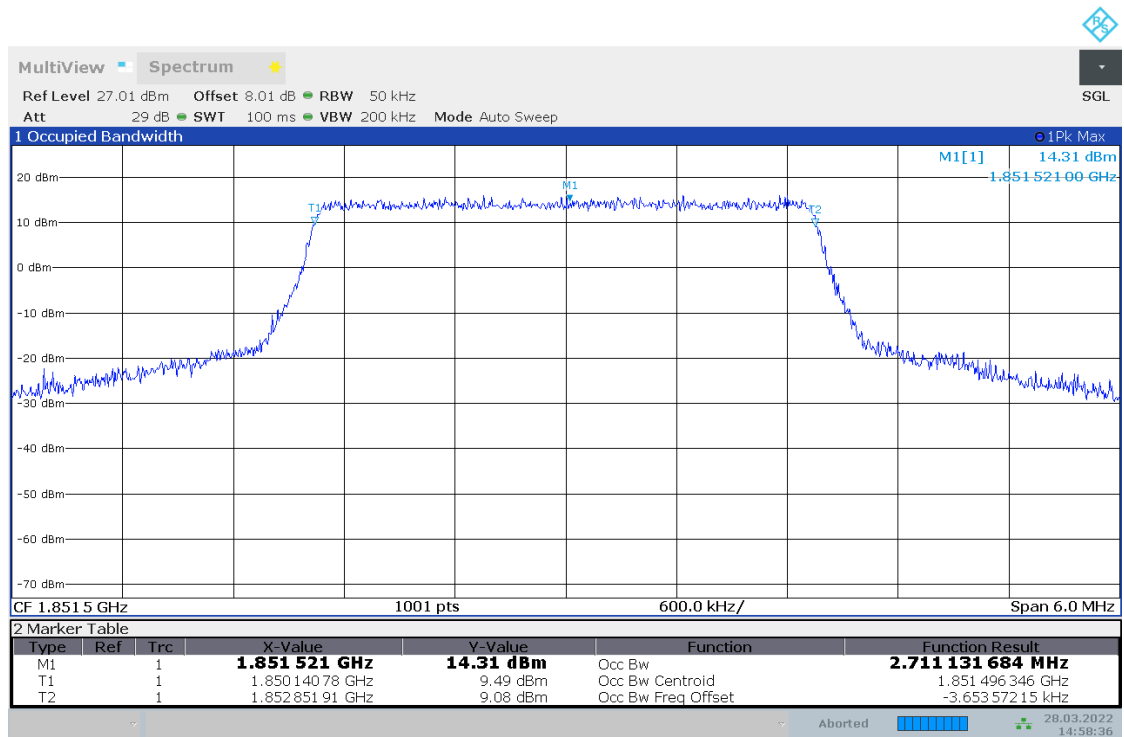
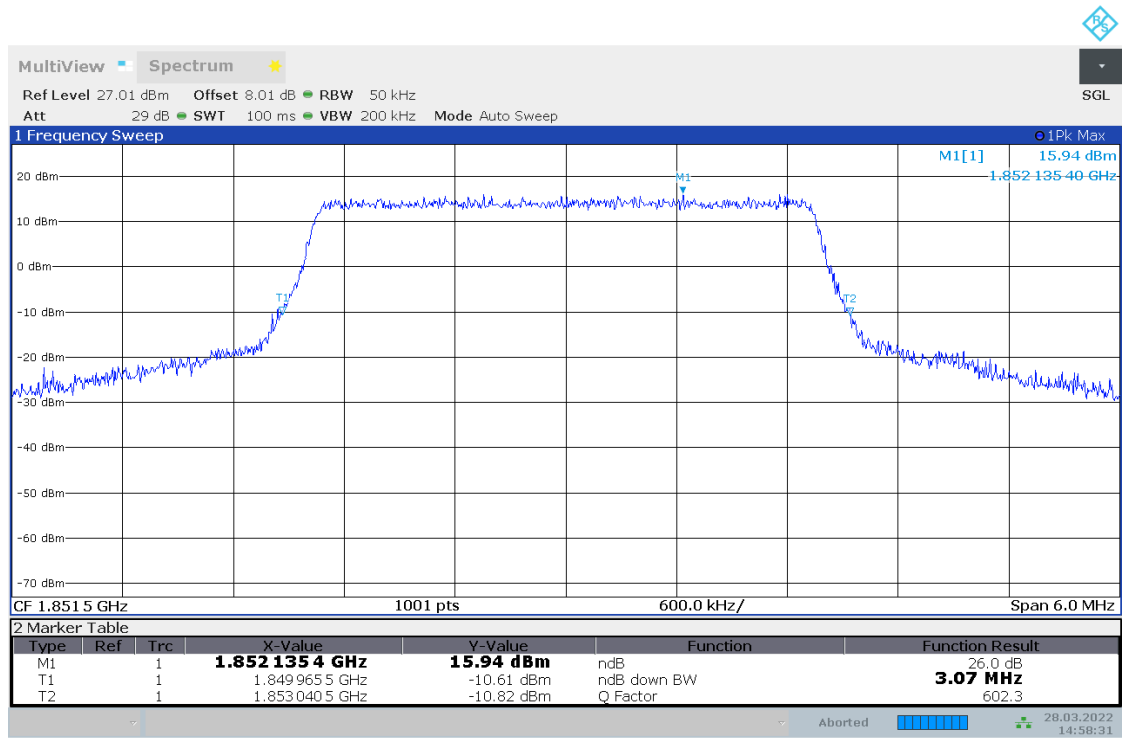


14:57:12 28.03.2022

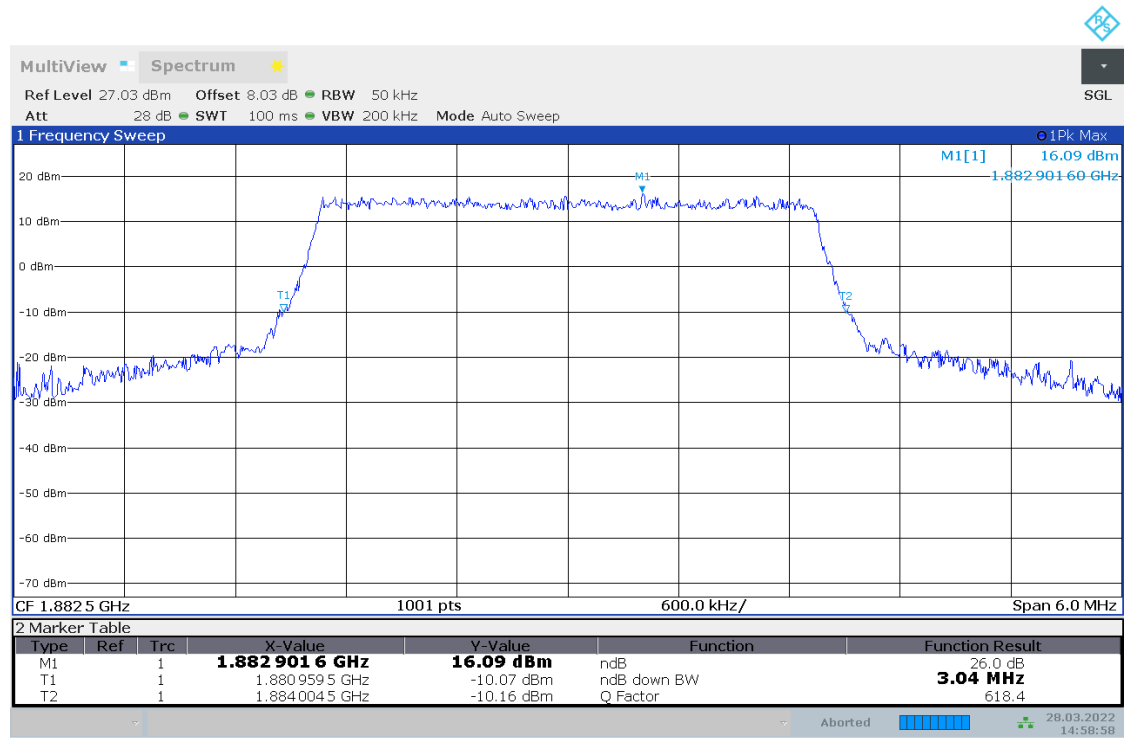
4.2.39 TM3_1.4MHZ_HCH_RB6#0



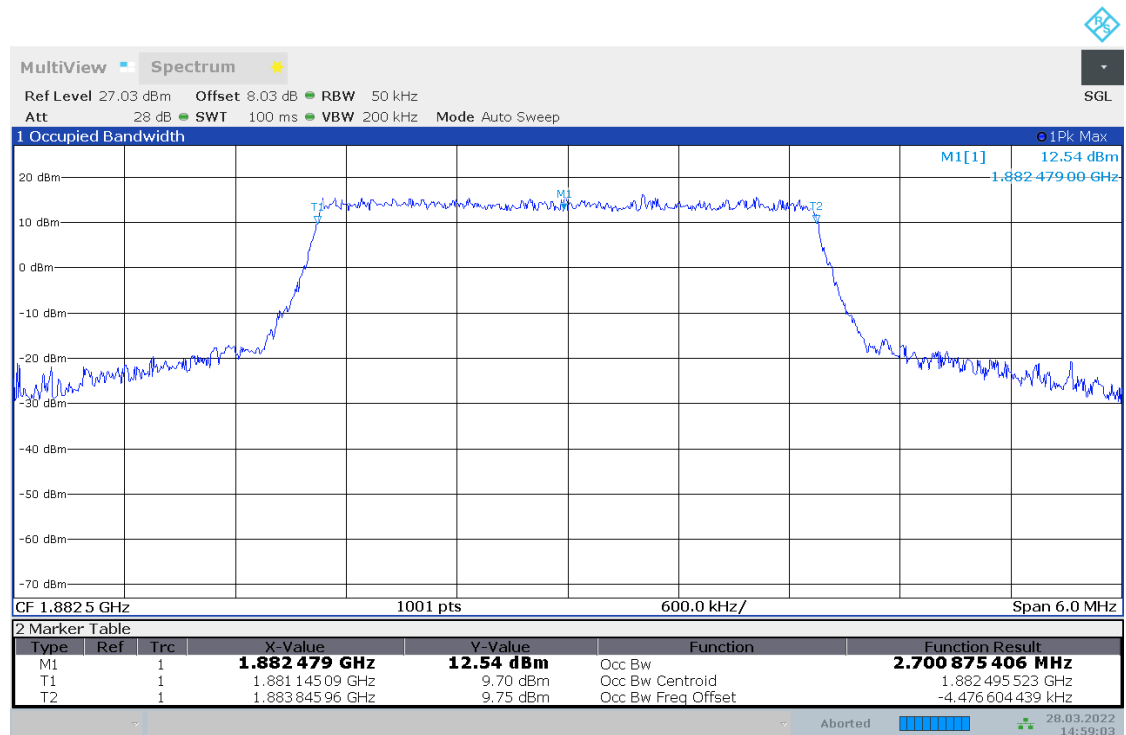
4.2.40 TM3_3MHZ_LCH_RB15#0



4.2.41 TM3_3MHZ_MCH_RB15#0

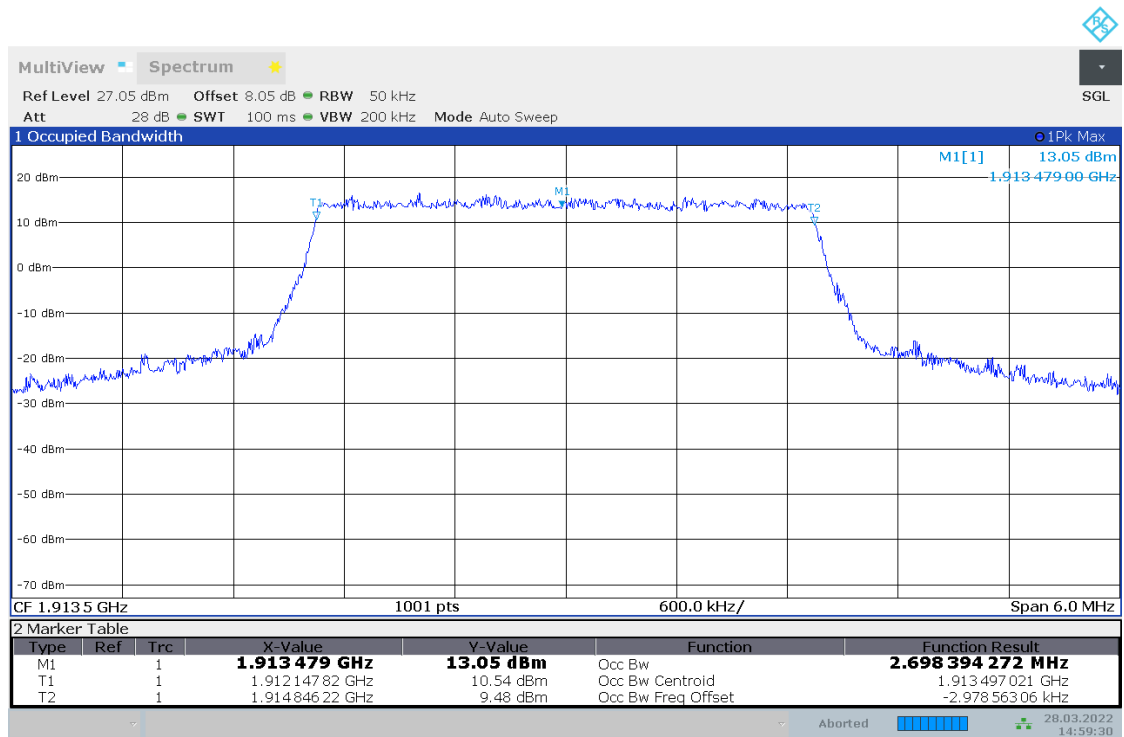
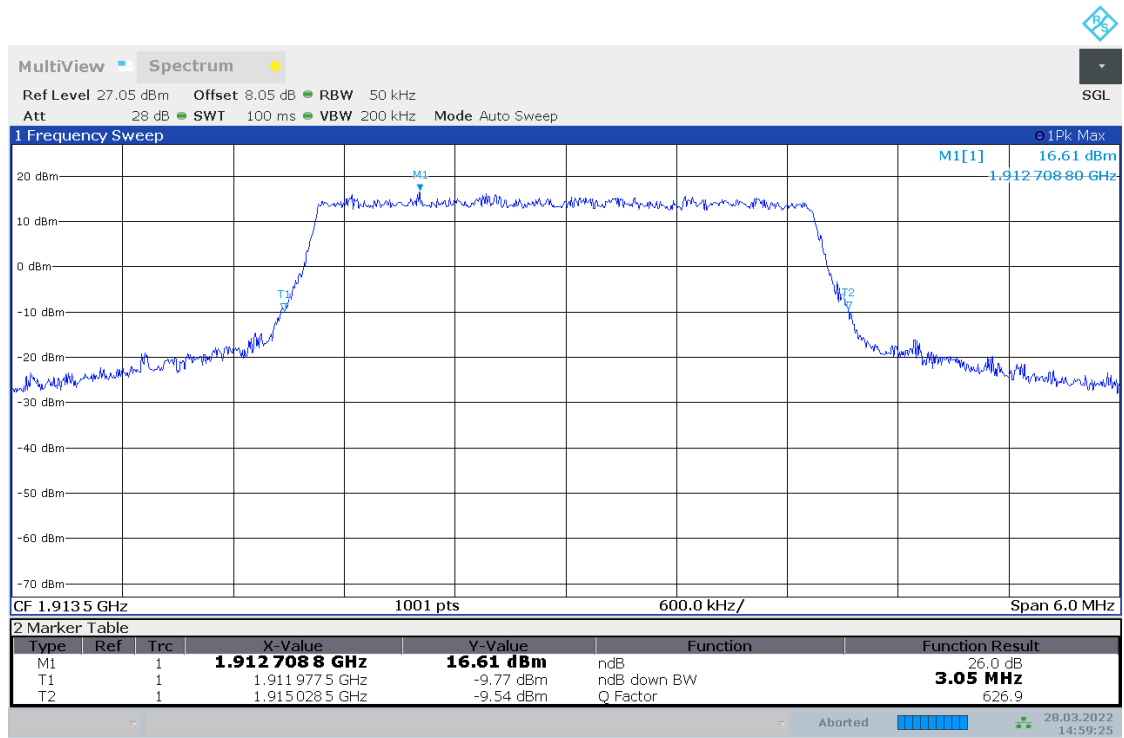


14:58:58 28.03.2022

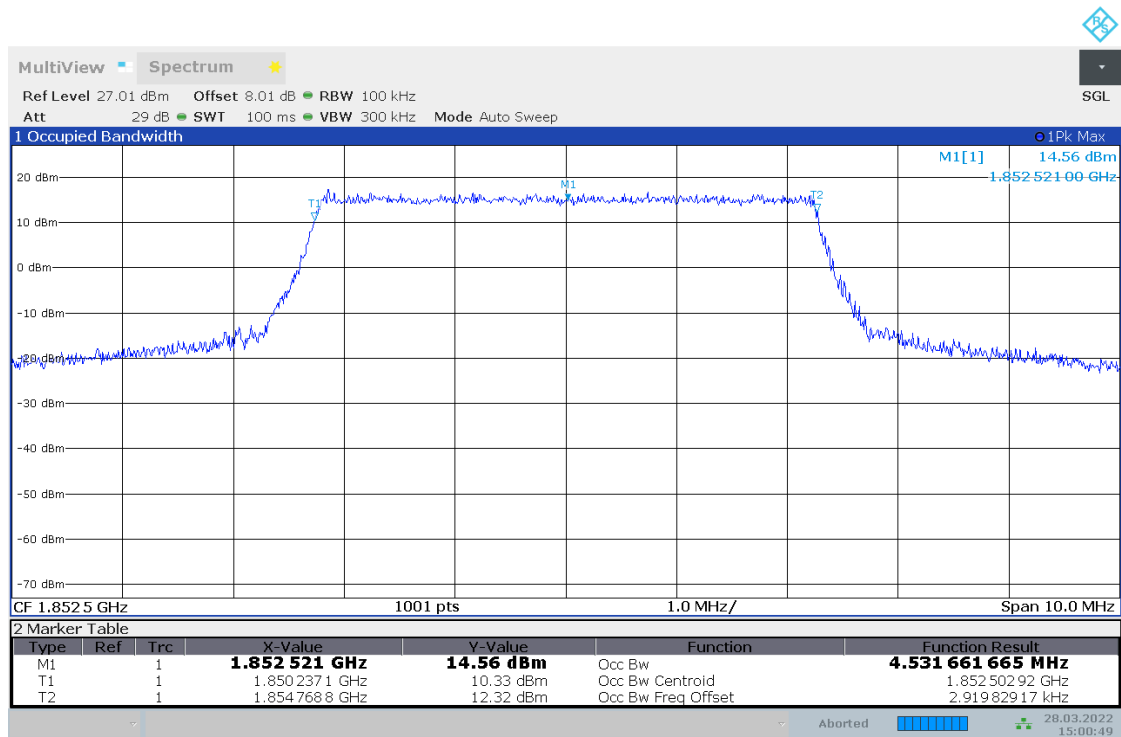
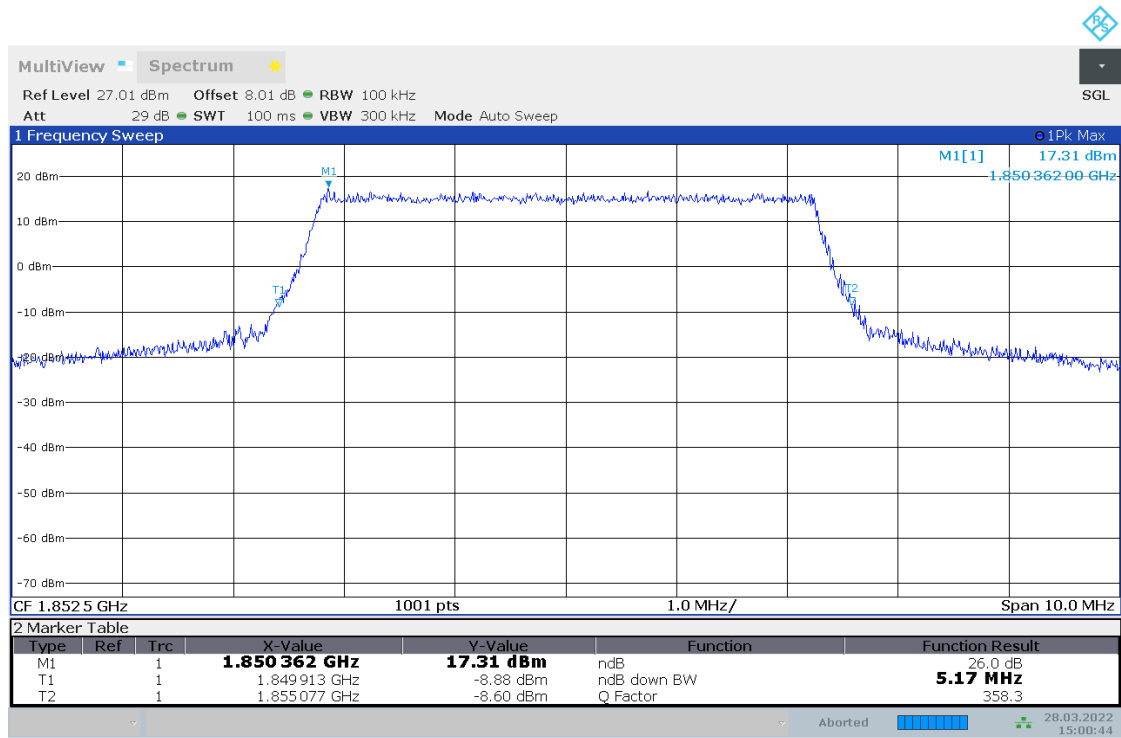


14:59:04 28.03.2022

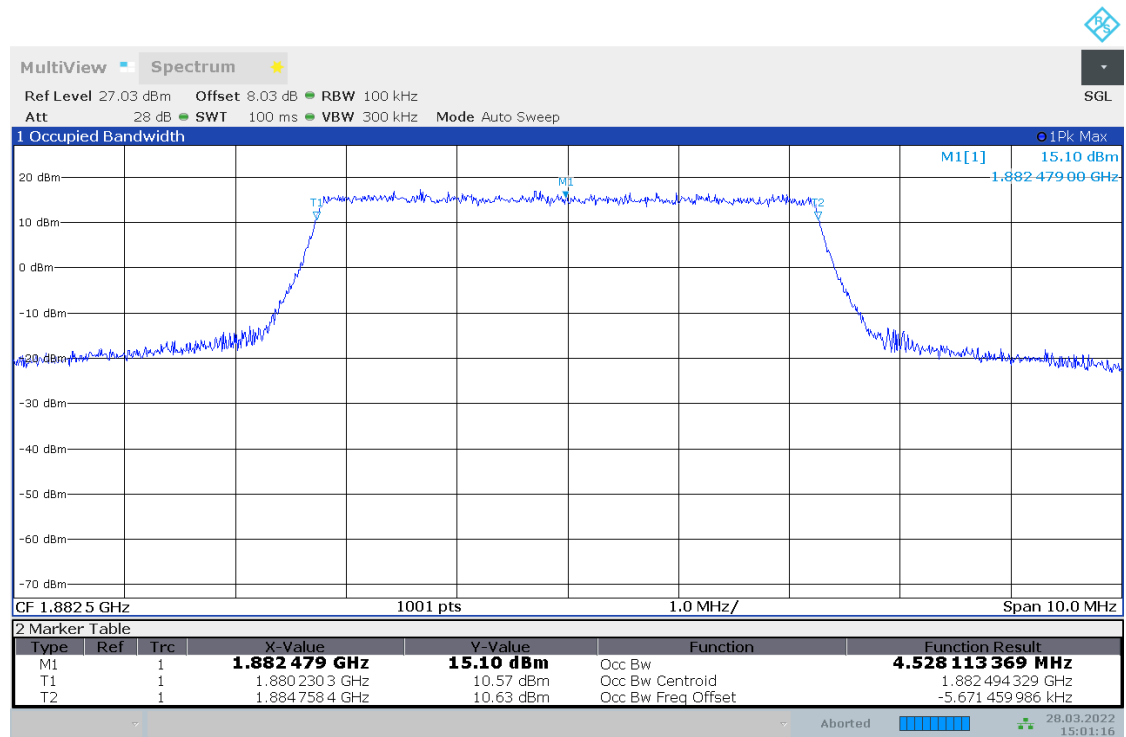
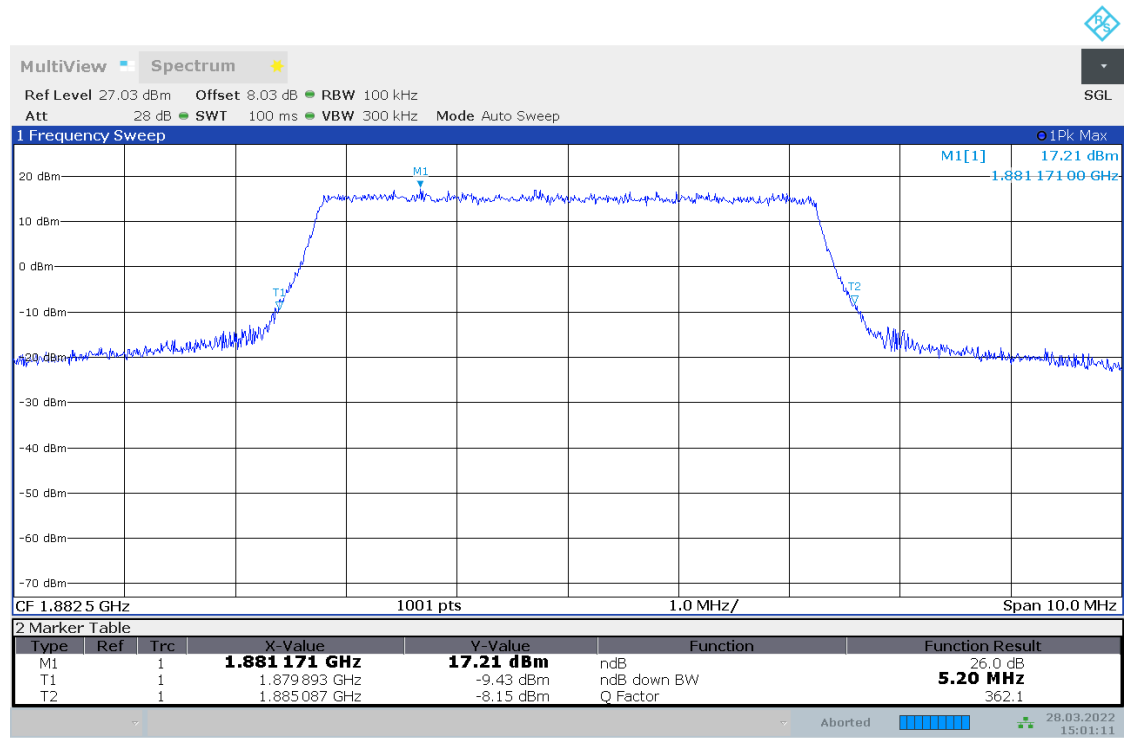
4.2.42 TM3_3MHZ_HCH_RB15#0



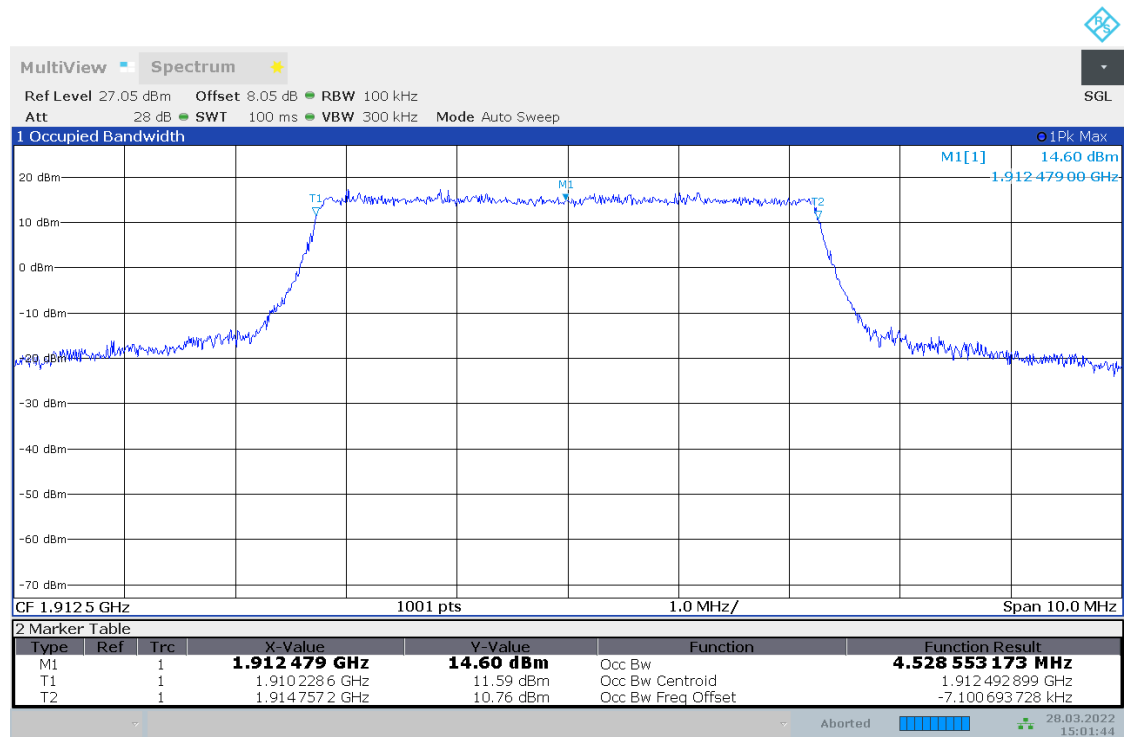
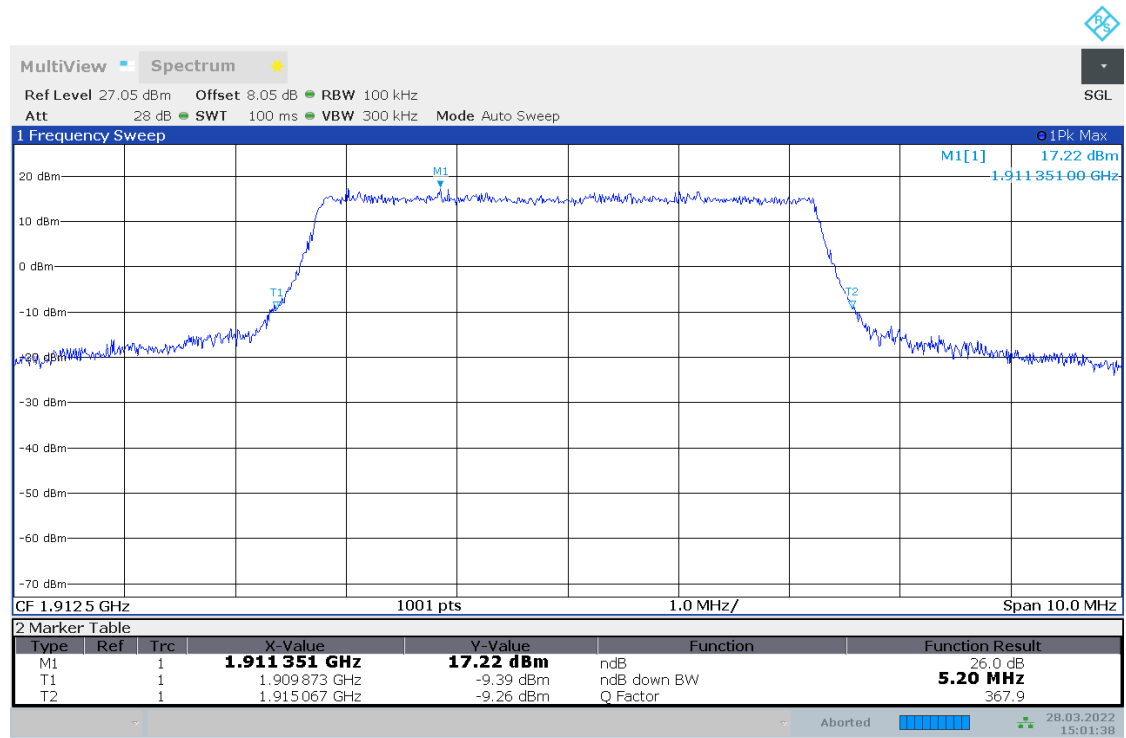
4.2.43 TM3_5MHZ_LCH_RB25#0



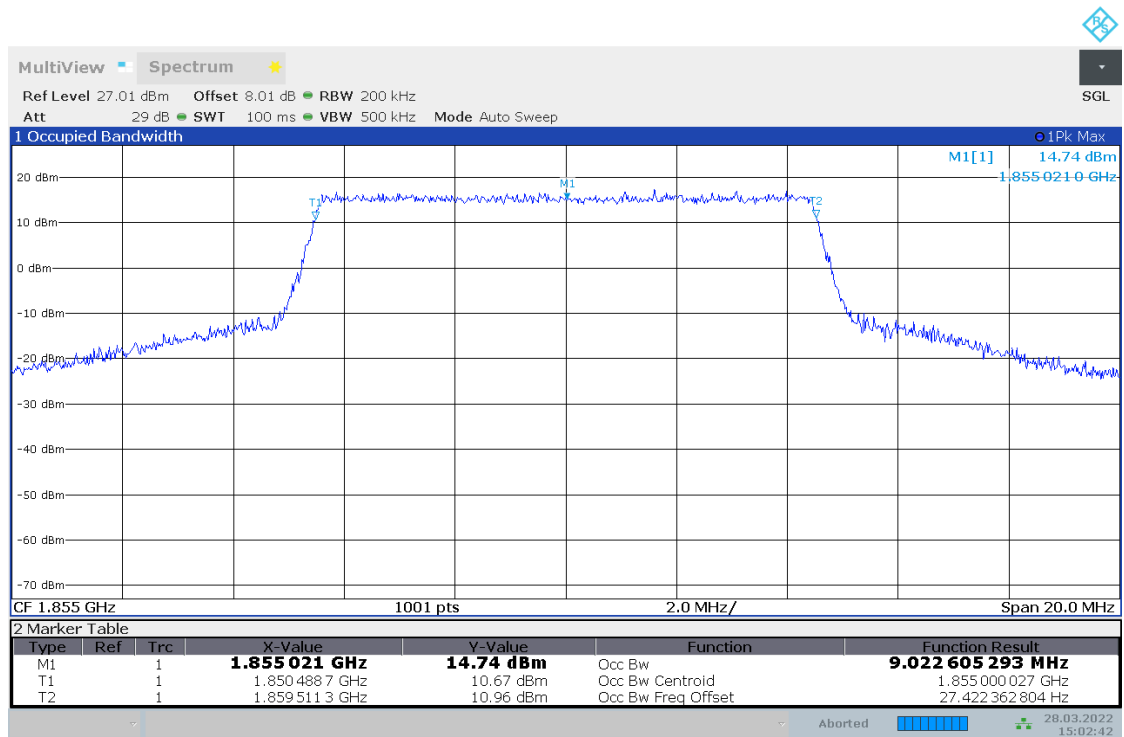
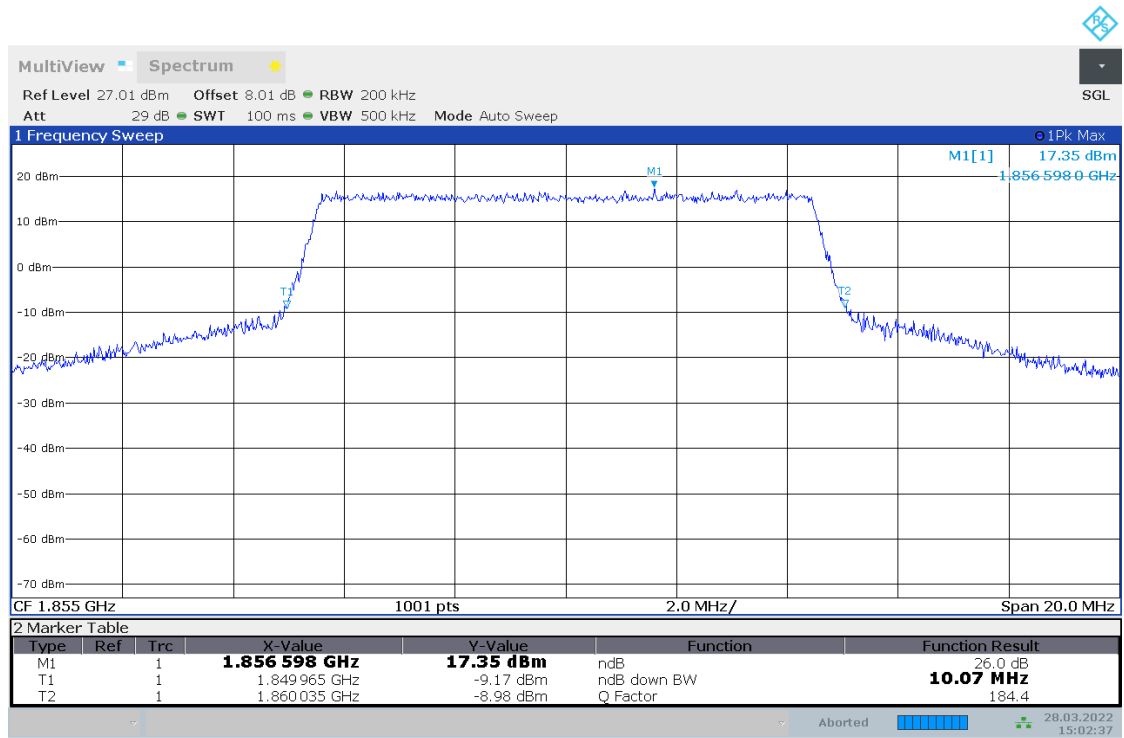
4.2.44 TM3_5MHZ_MCH_RB25#0



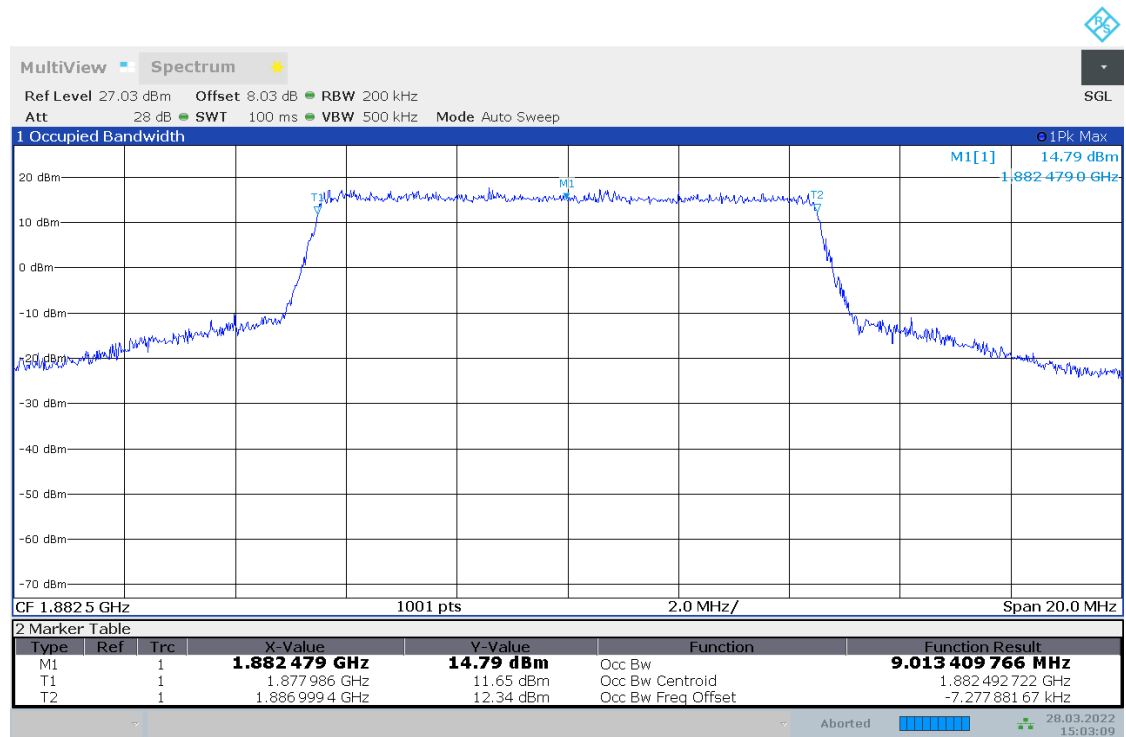
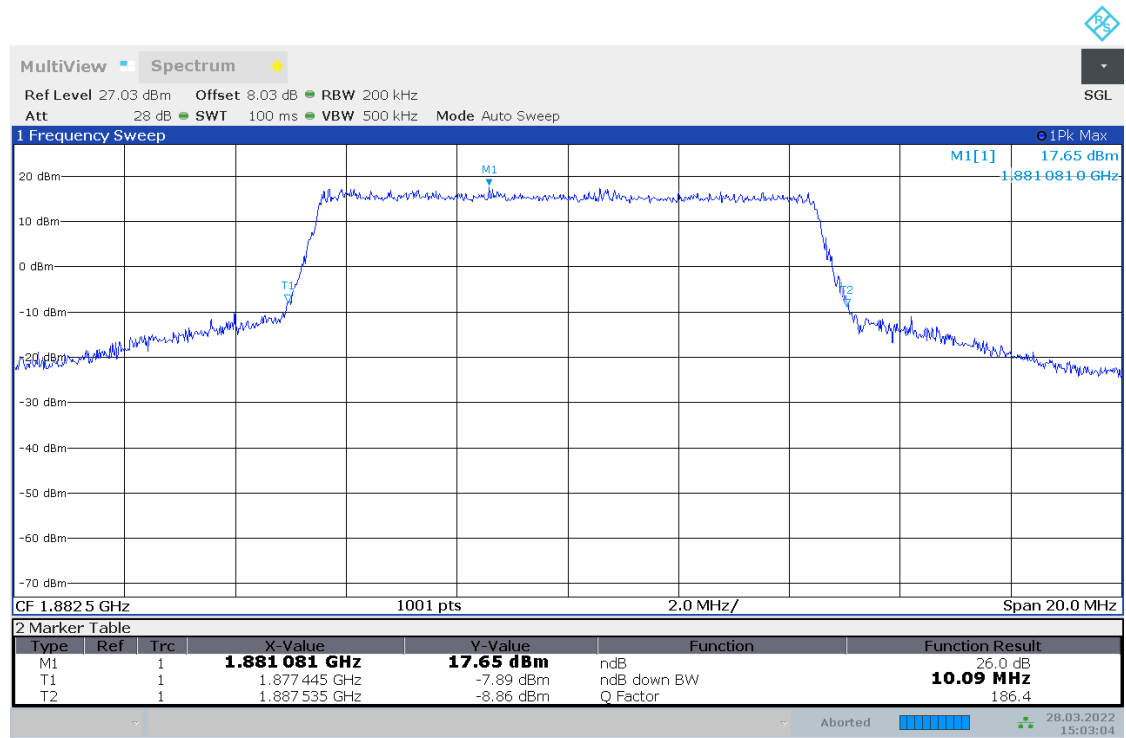
4.2.45 TM3_5MHZ_HCH_RB25#0



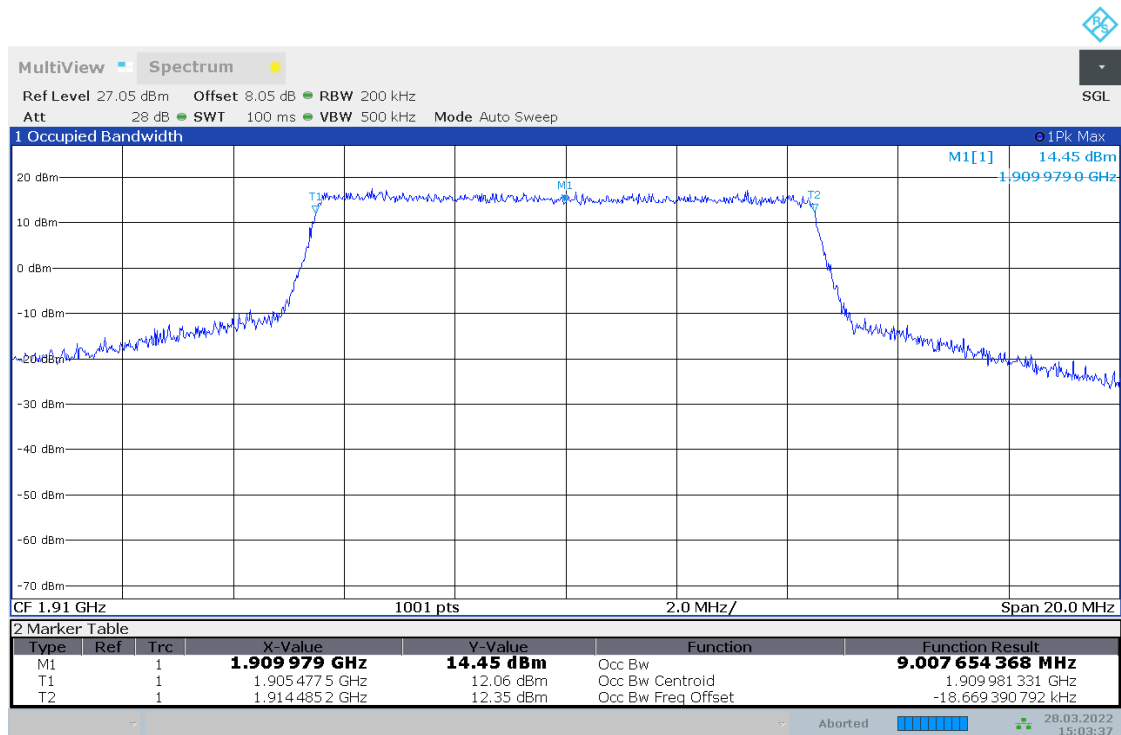
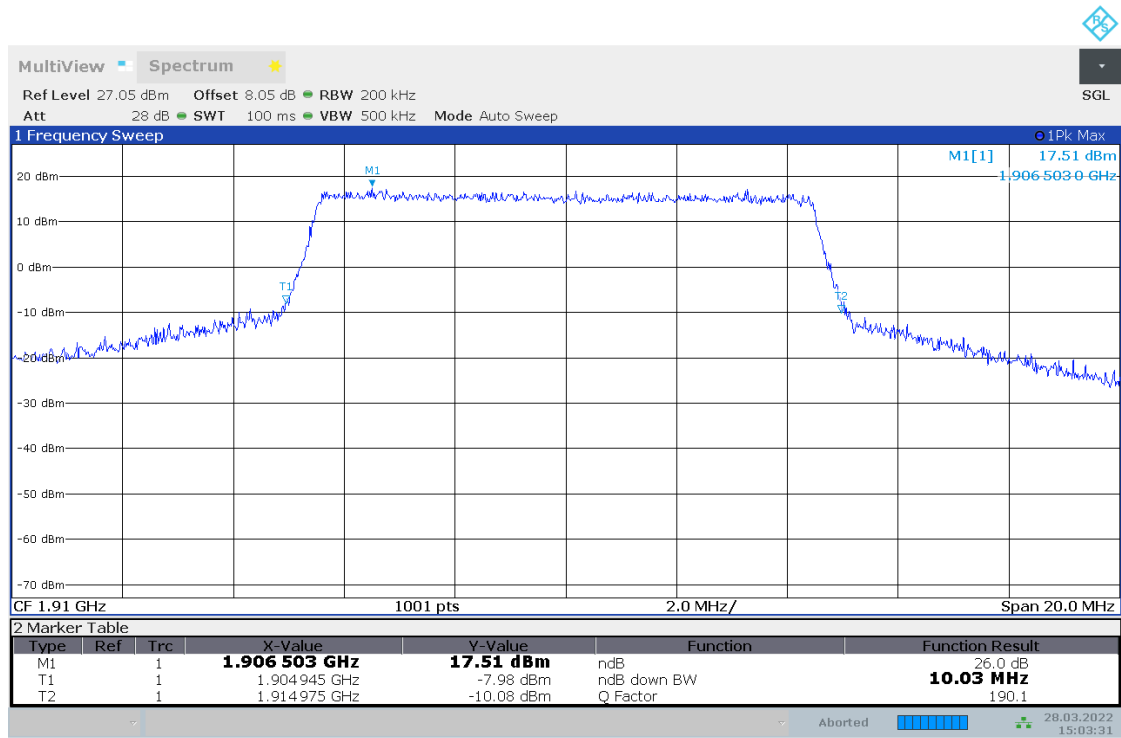
4.2.46 TM3_10MHZ_LCH_RB50#0



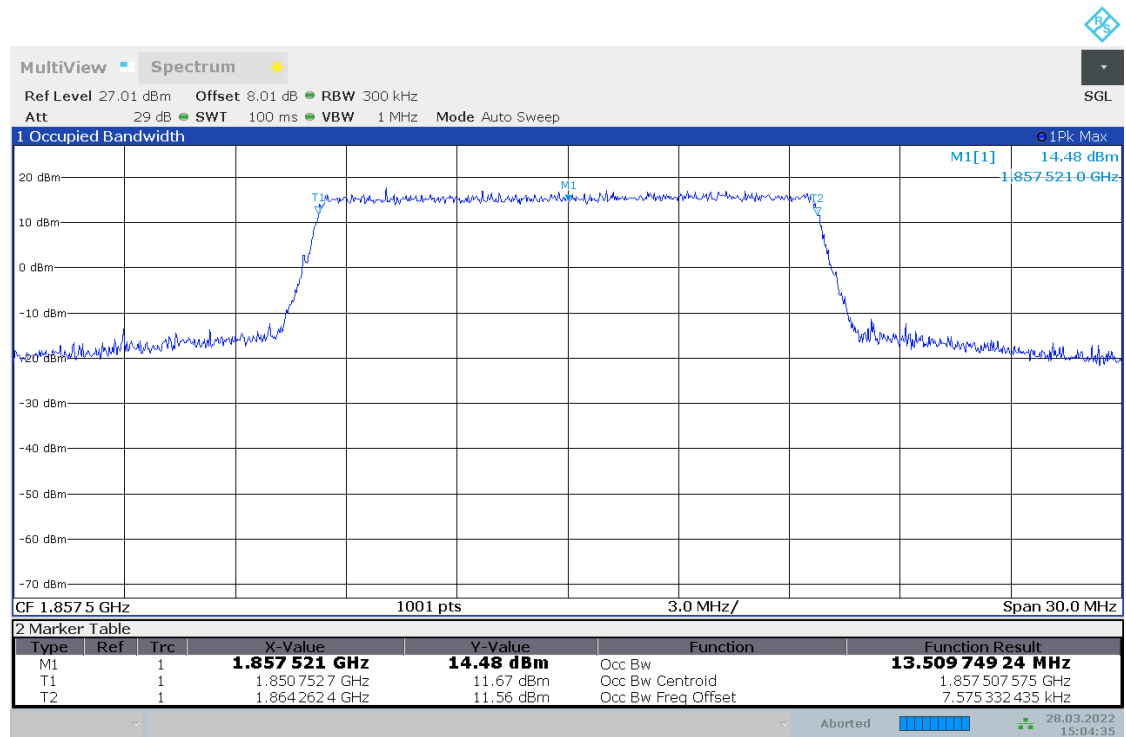
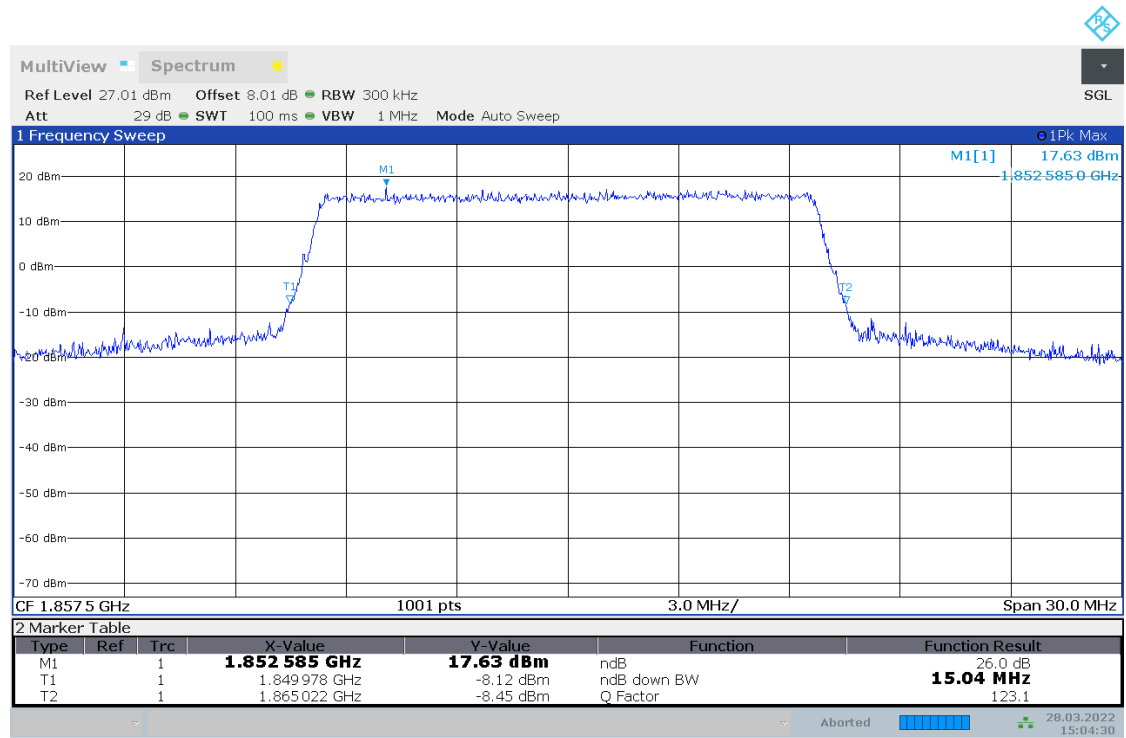
4.2.47 TM3_10MHZ_MCH_RB50#0



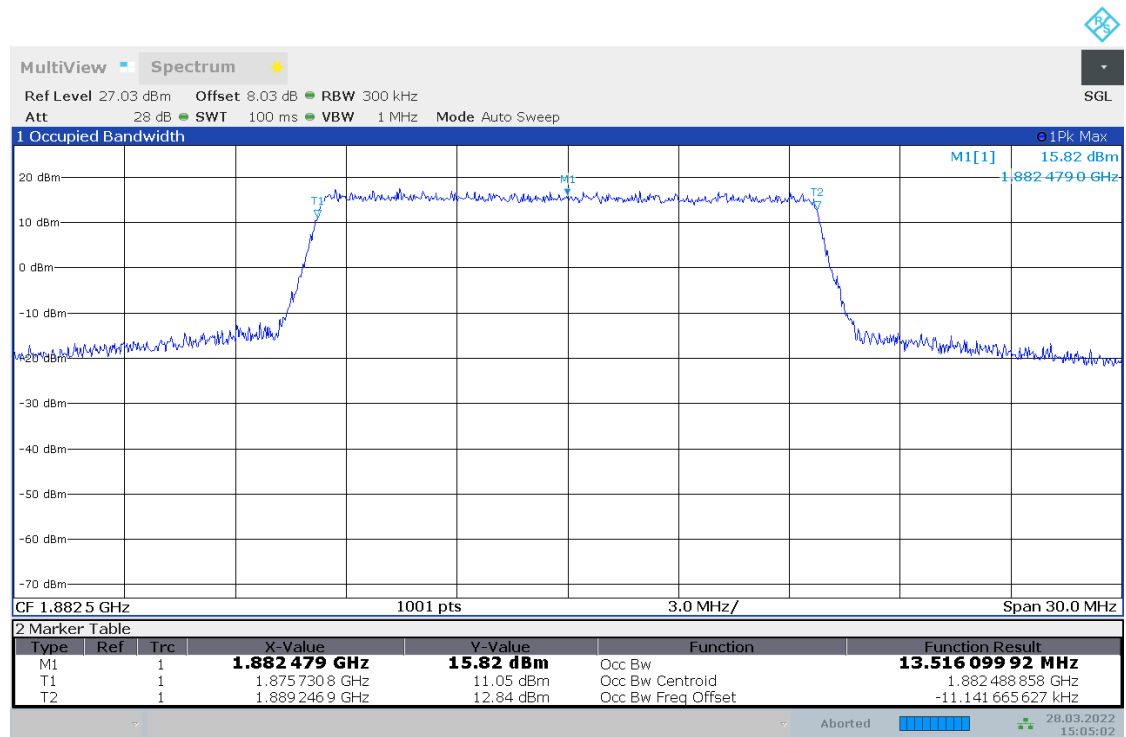
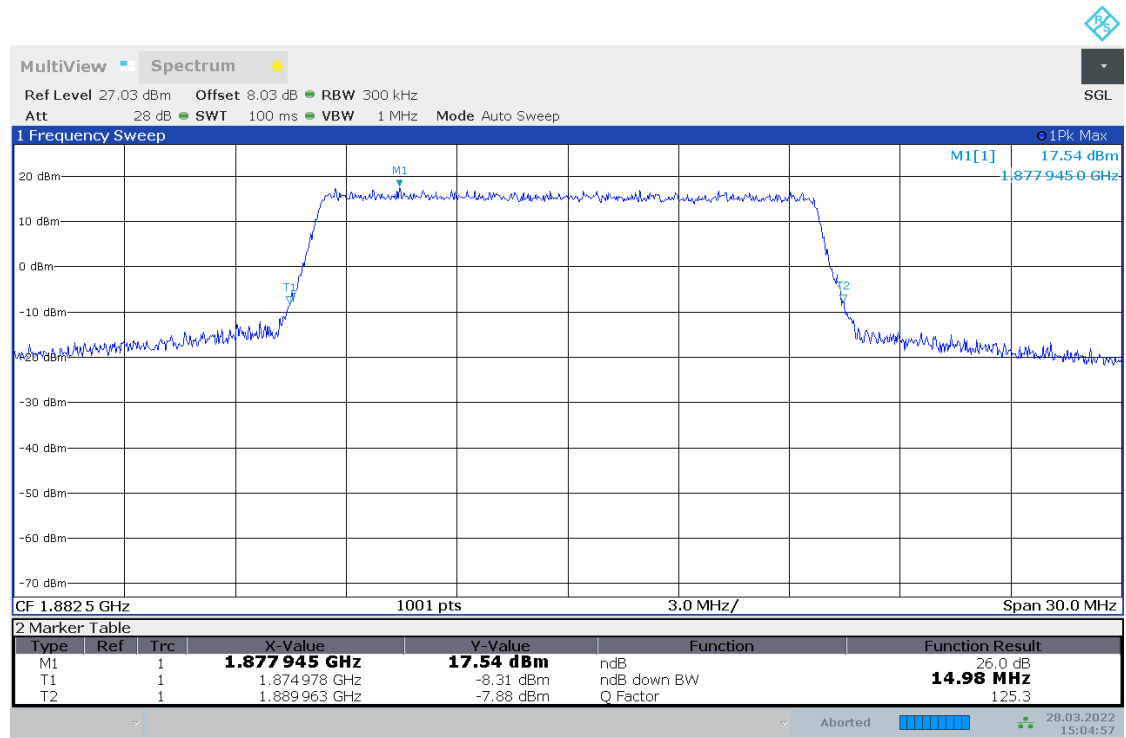
4.2.48 TM3_10MHZ_HCH_RB50#0



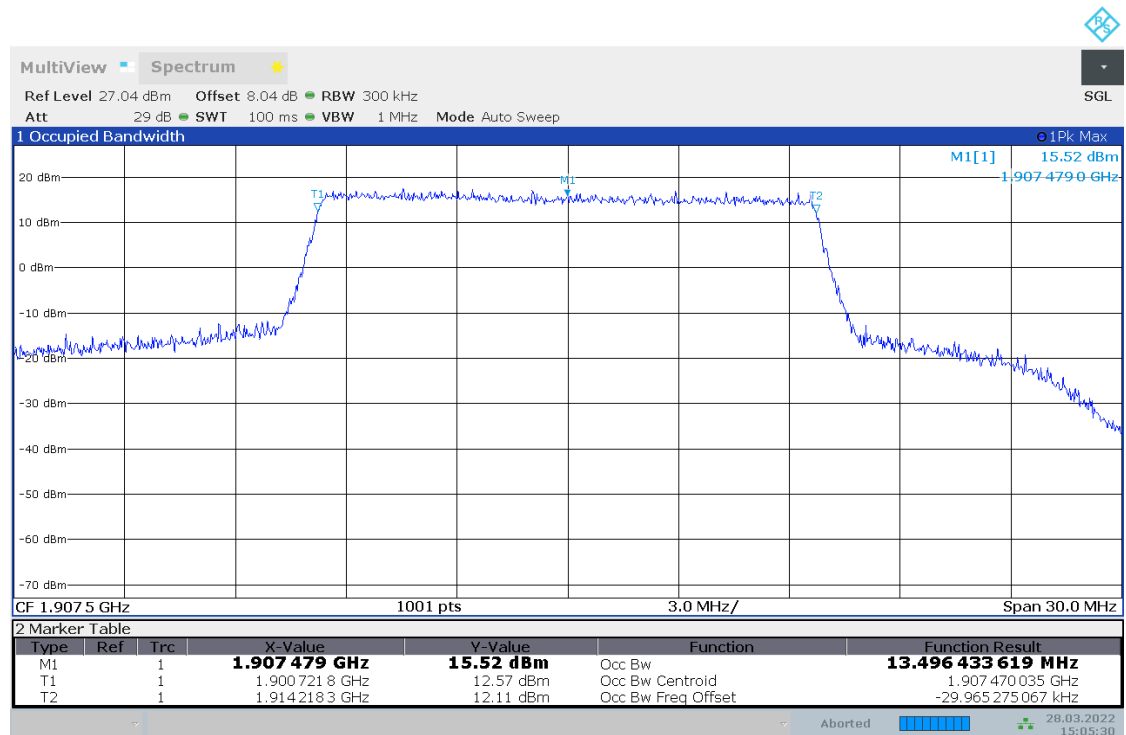
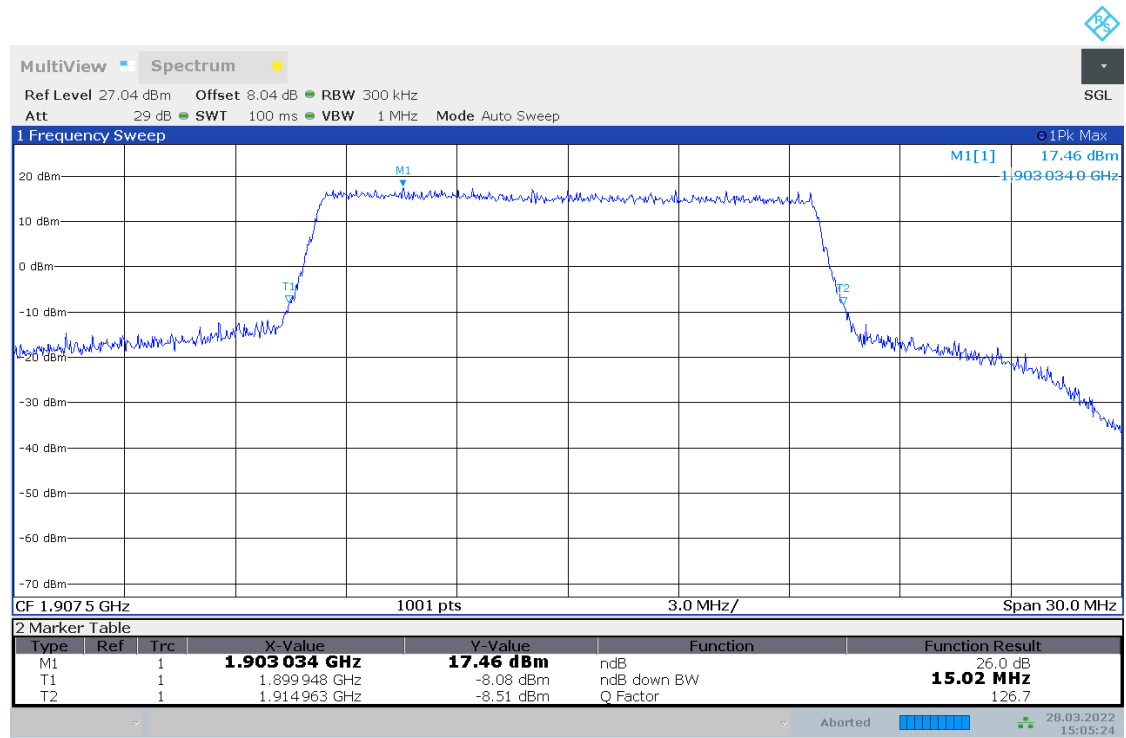
4.2.49 TM3_15MHZ_LCH_RB75#0



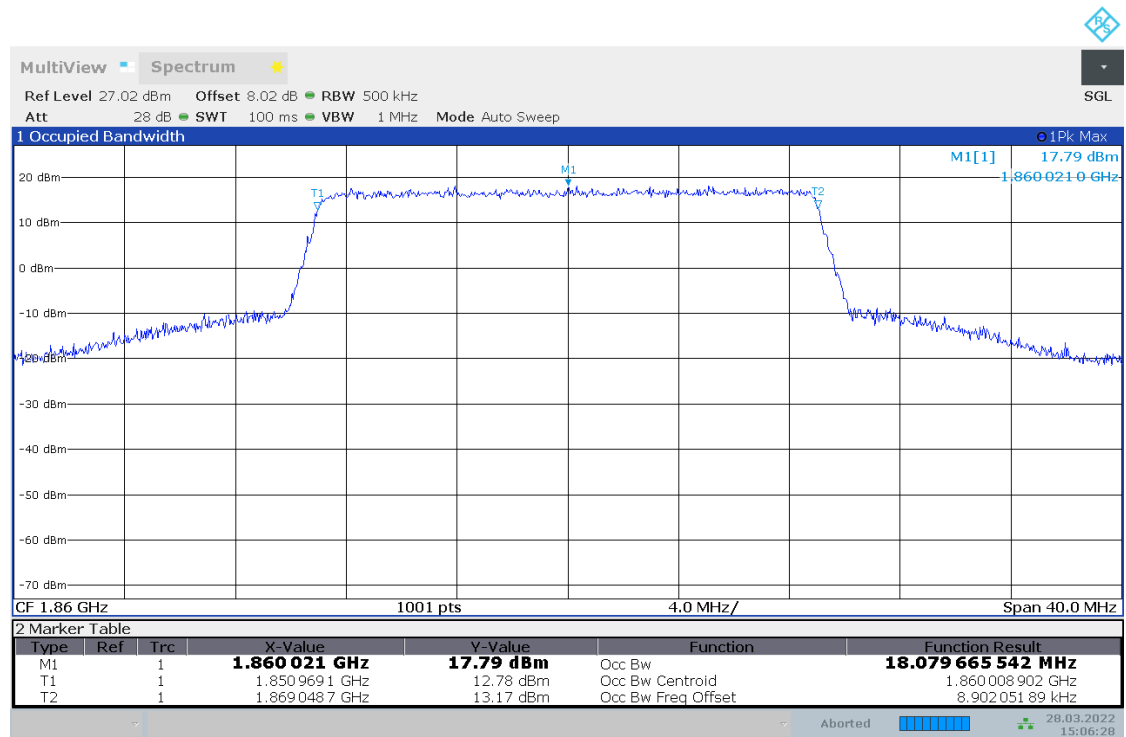
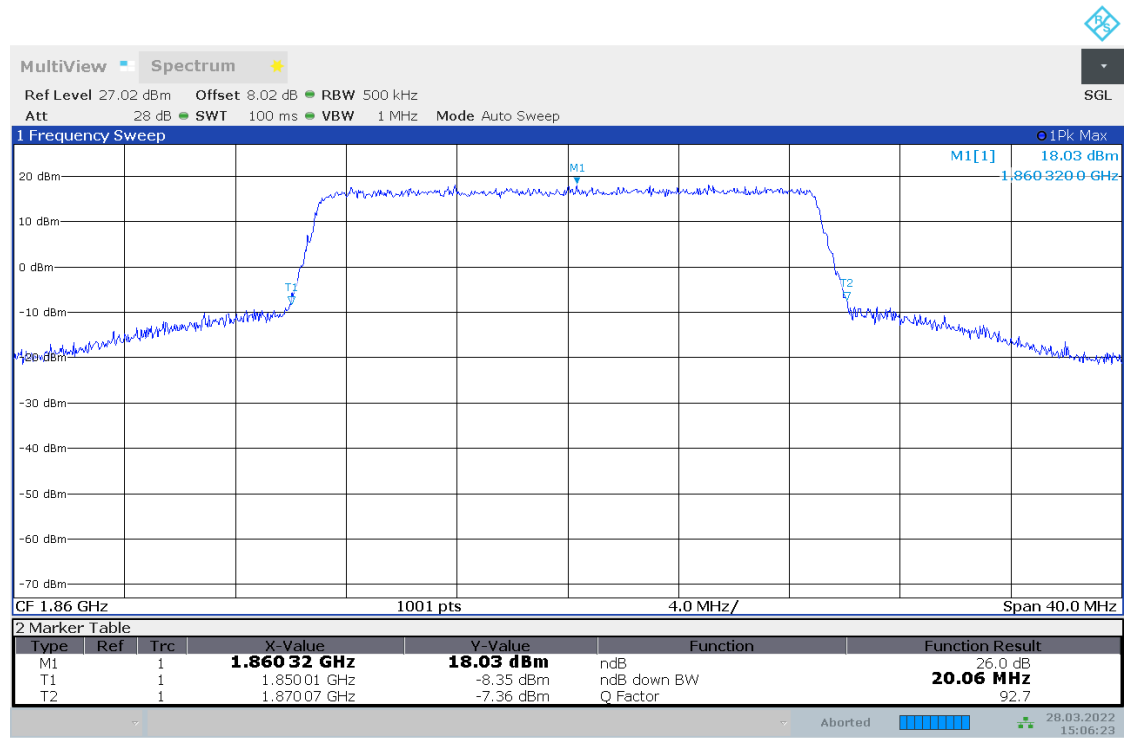
4.2.50 TM3_15MHZ_MCH_RB75#0



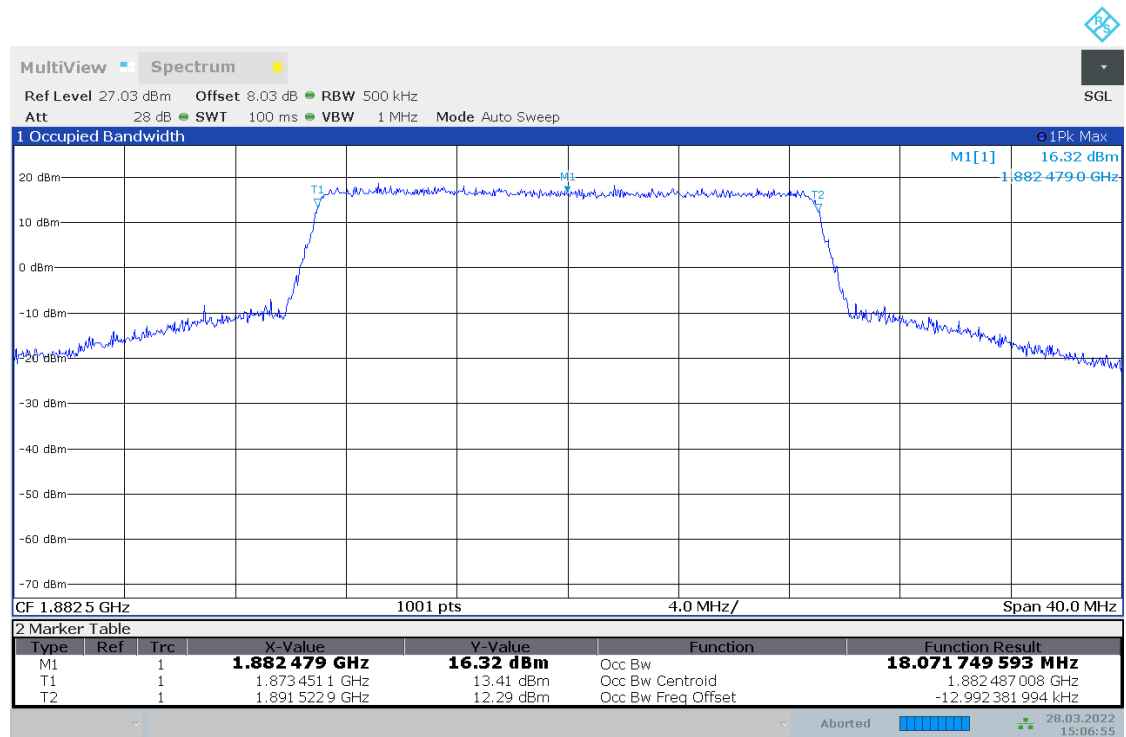
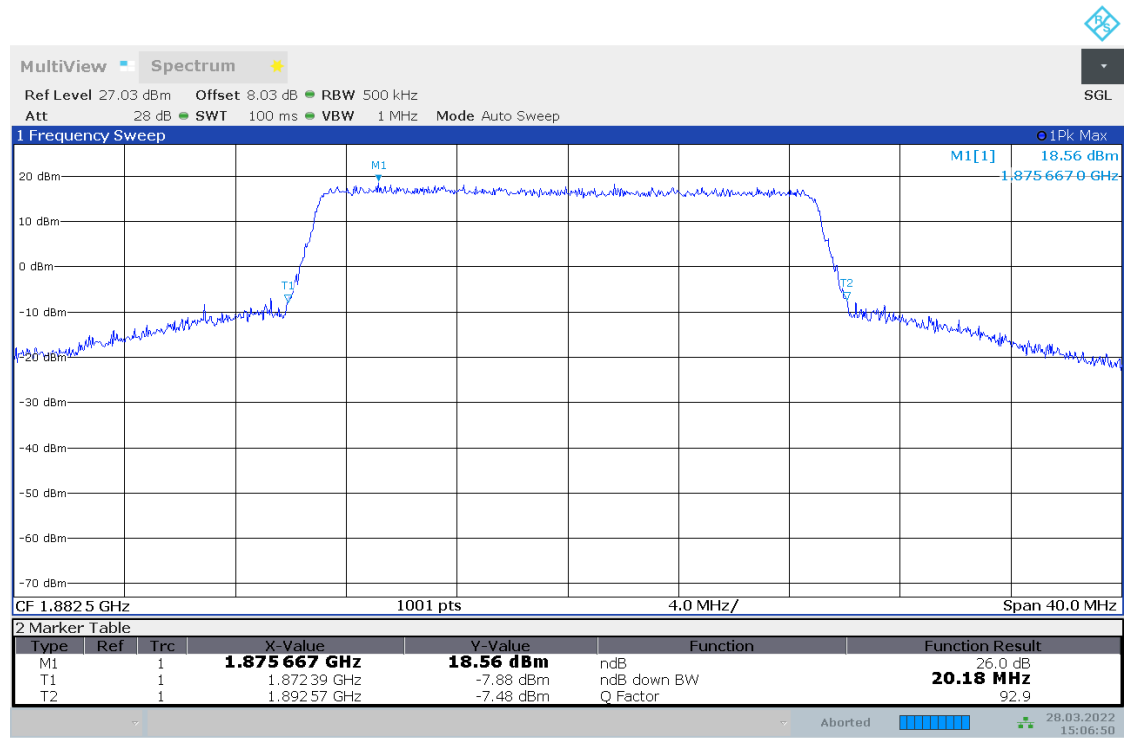
4.2.51 TM3_15MHZ_HCH_RB75#0



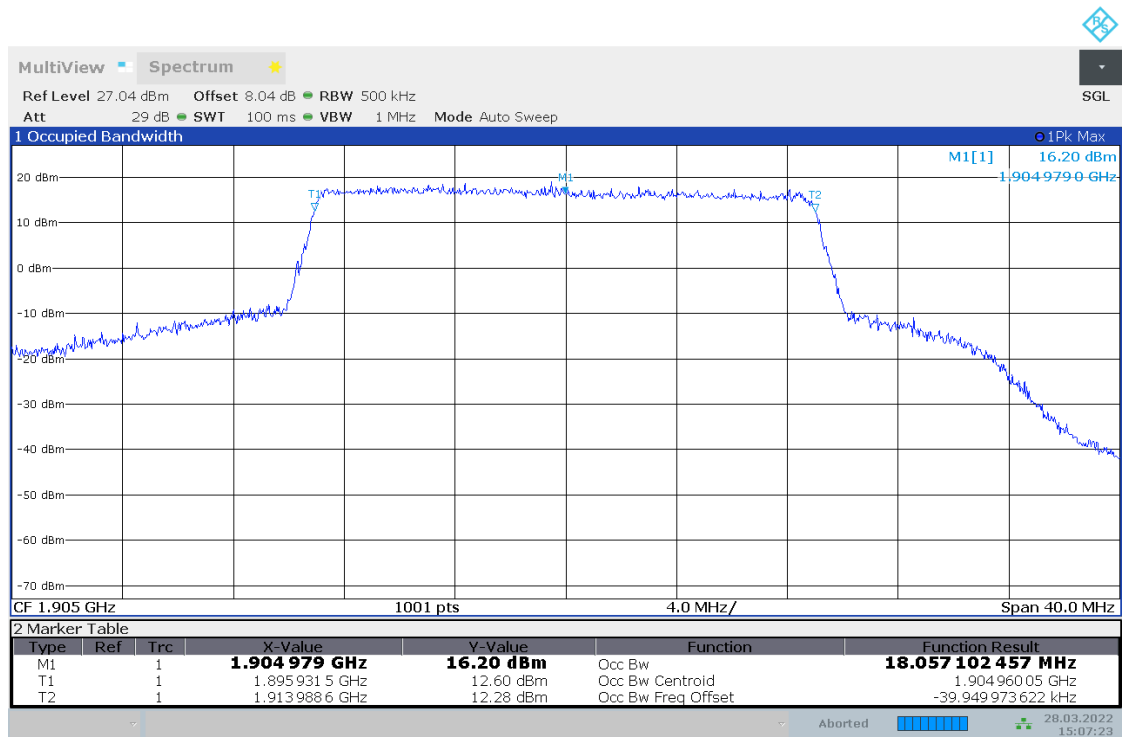
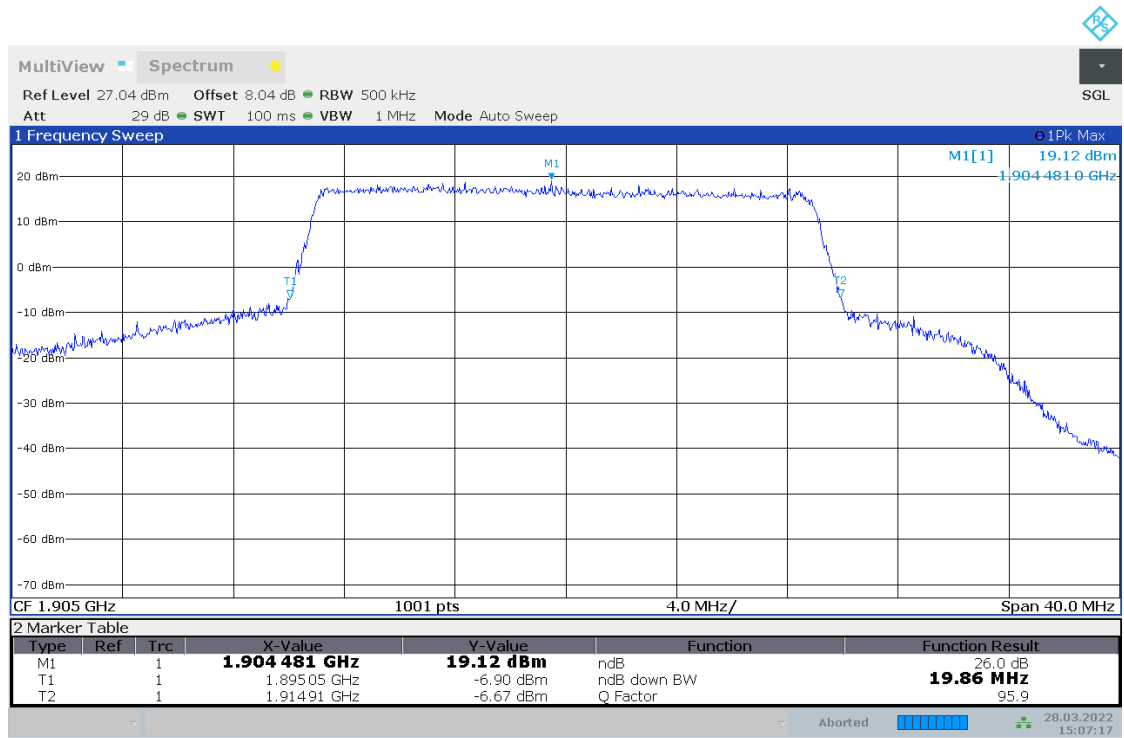
4.2.52 TM3_20MHZ_LCH_RB100#0



4.2.53 TM3_20MHZ_MCH_RB100#0



4.2.54 TM3_20MHZ_HCH_RB100#0



5. APPENDIX E - BAND EDGES COMPLIANCE

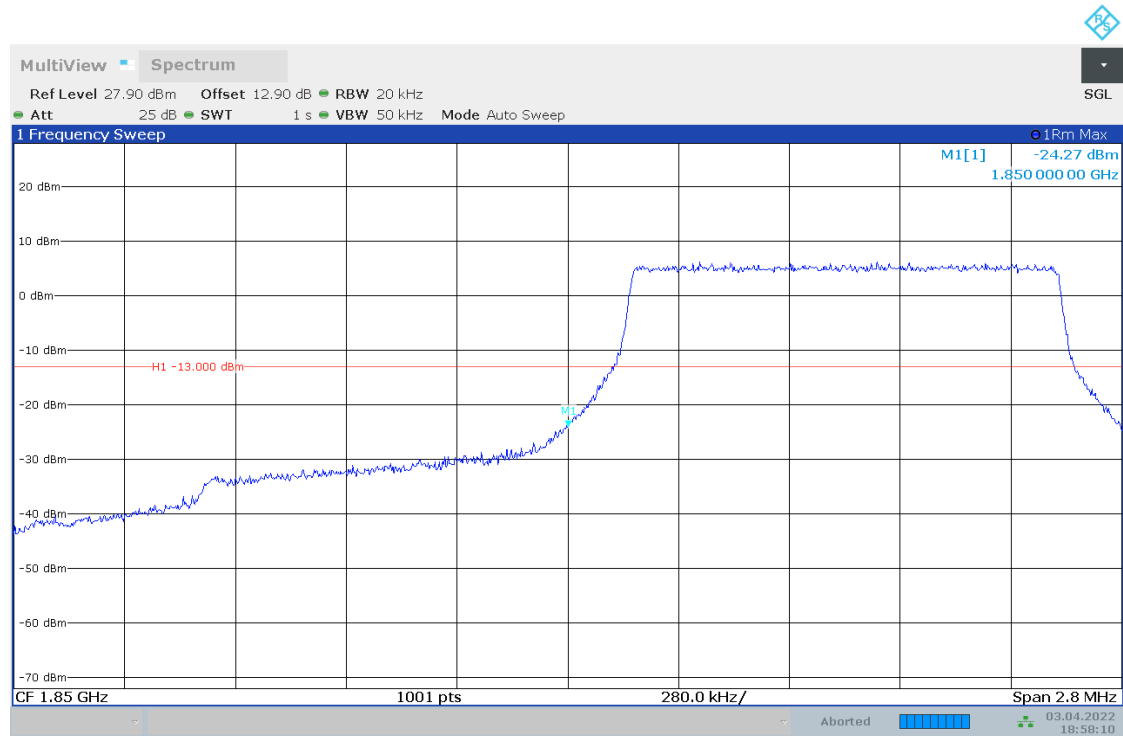
5.1 TEST RESULTS

Band Edges Compliance					
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Verdict
TM1	1.4	LCH	RB6#0	QPSK	PASS
			RB1#0	QPSK	PASS
			RB1#5	QPSK	PASS
		HCH	RB6#0	QPSK	PASS
			RB1#0	QPSK	PASS
			RB1#5	QPSK	PASS
	5	LCH	RB25#0	QPSK	PASS
			RB1#0	QPSK	PASS
			RB1#24	QPSK	PASS
		HCH	RB25#0	QPSK	PASS
			RB1#0	QPSK	PASS
			RB1#24	QPSK	PASS
	20	LCH	RB100#0	QPSK	PASS
			RB1#0	QPSK	PASS
			RB1#99	QPSK	PASS
		HCH	RB100#0	QPSK	PASS
			RB1#0	QPSK	PASS
			RB1#99	QPSK	PASS
TM2	1.4	LCH	RB6#0	16QAM	PASS
			RB1#0	16QAM	PASS
			RB1#5	16QAM	PASS
		HCH	RB6#0	16QAM	PASS
			RB1#0	16QAM	PASS
			RB1#5	16QAM	PASS
	5	LCH	RB25#0	16QAM	PASS
			RB1#0	16QAM	PASS
			RB1#24	16QAM	PASS
		HCH	RB25#0	16QAM	PASS
			RB1#0	16QAM	PASS
			RB1#24	16QAM	PASS
	20	LCH	RB100#0	16QAM	PASS
			RB1#0	16QAM	PASS
			RB1#99	16QAM	PASS
		HCH	RB100#0	16QAM	PASS
			RB1#0	16QAM	PASS
			RB1#99	16QAM	PASS

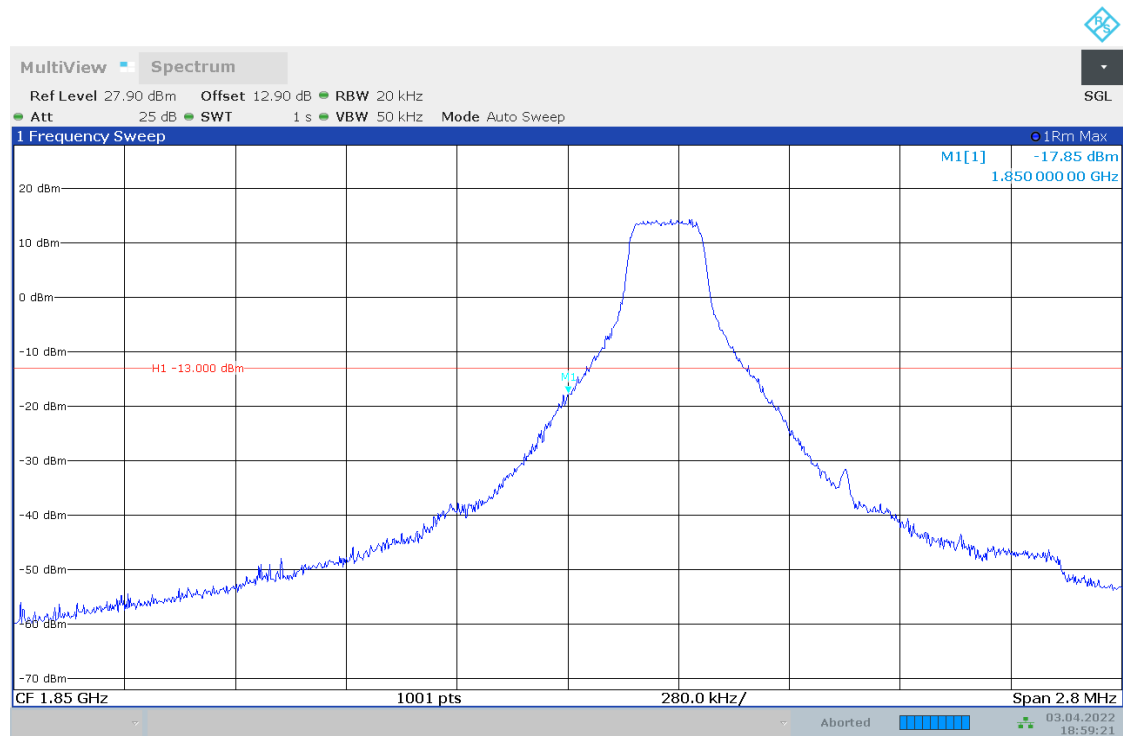
Band Edges Compliance					
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Verdict
TM3	1.4	LCH	RB6#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#5	64QAM	PASS
		HCH	RB6#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#5	64QAM	PASS
	5	LCH	RB25#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#24	64QAM	PASS
		HCH	RB25#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#24	64QAM	PASS
	20	LCH	RB100#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#99	64QAM	PASS
		HCH	RB100#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#99	64QAM	PASS

5.2 TEST PLOTS

5.2.1 TM1_1.4MHZ_LCH_RB6#0



5.2.2 TM1_1.4MHZ_LCH_RB1#0

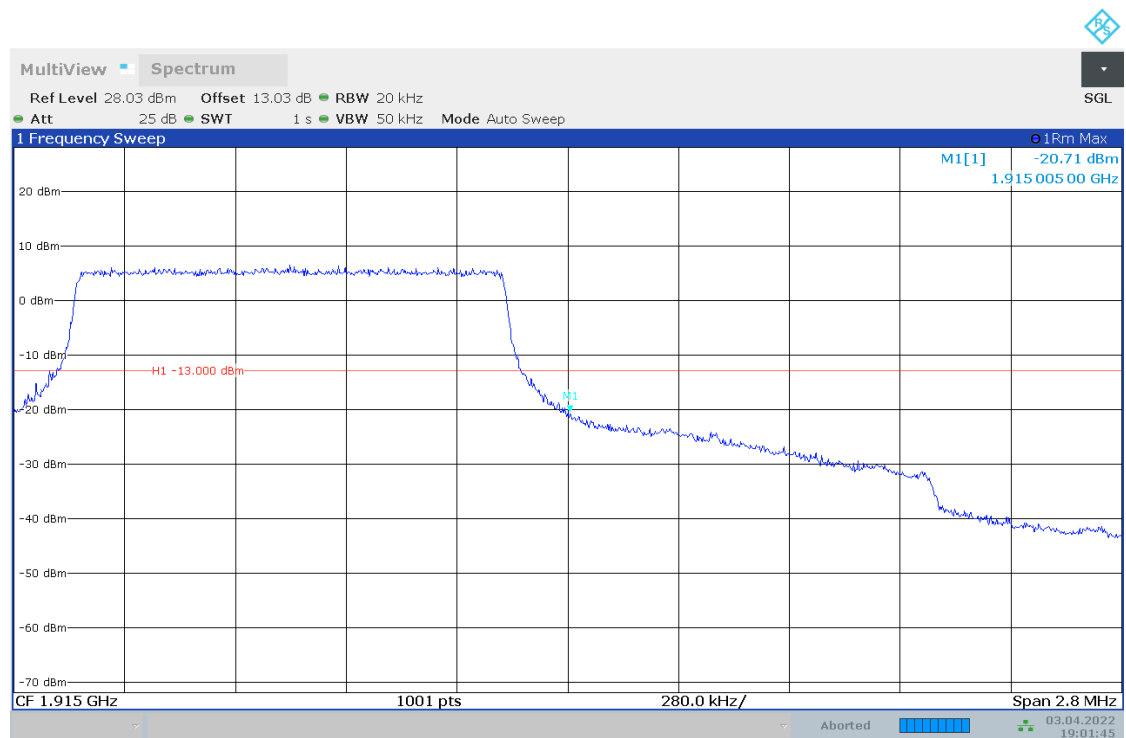


5.2.3 TM1_1.4MHZ_LCH_RB1#5



19:00:32 03.04.2022

5.2.4 TM1_1.4MHZ_HCH_RB6#0



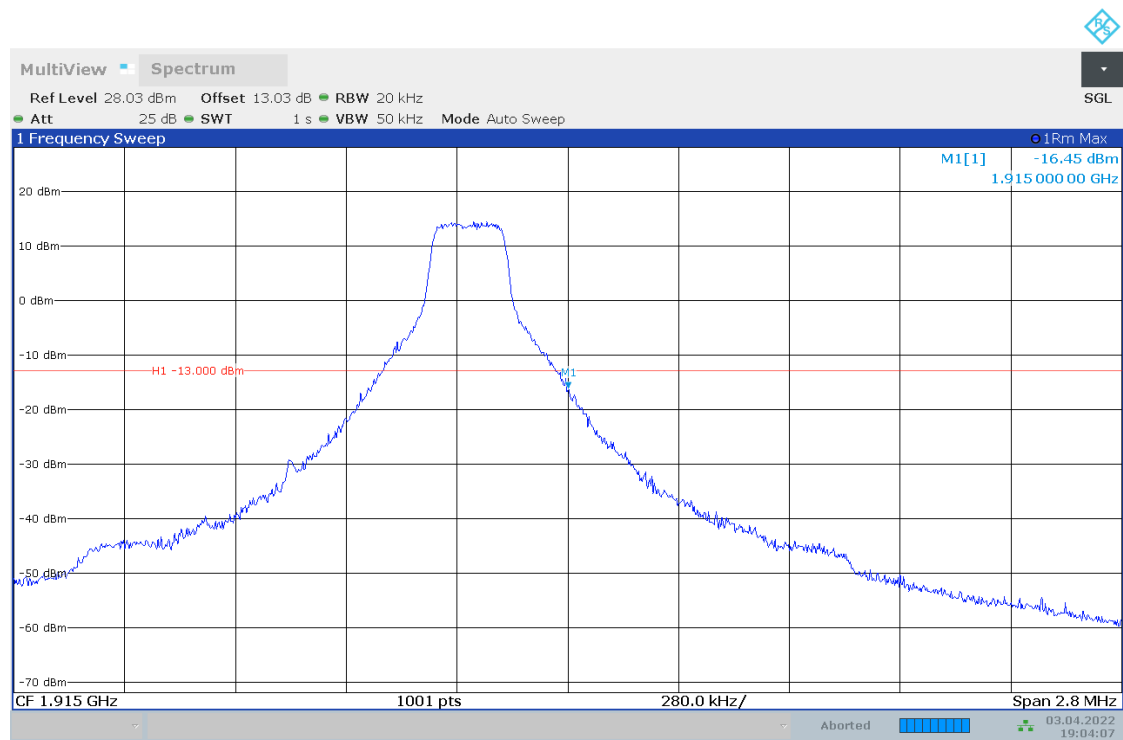
19:01:45 03.04.2022

5.2.5 TM1_1.4MHZ_HCH_RB1#0



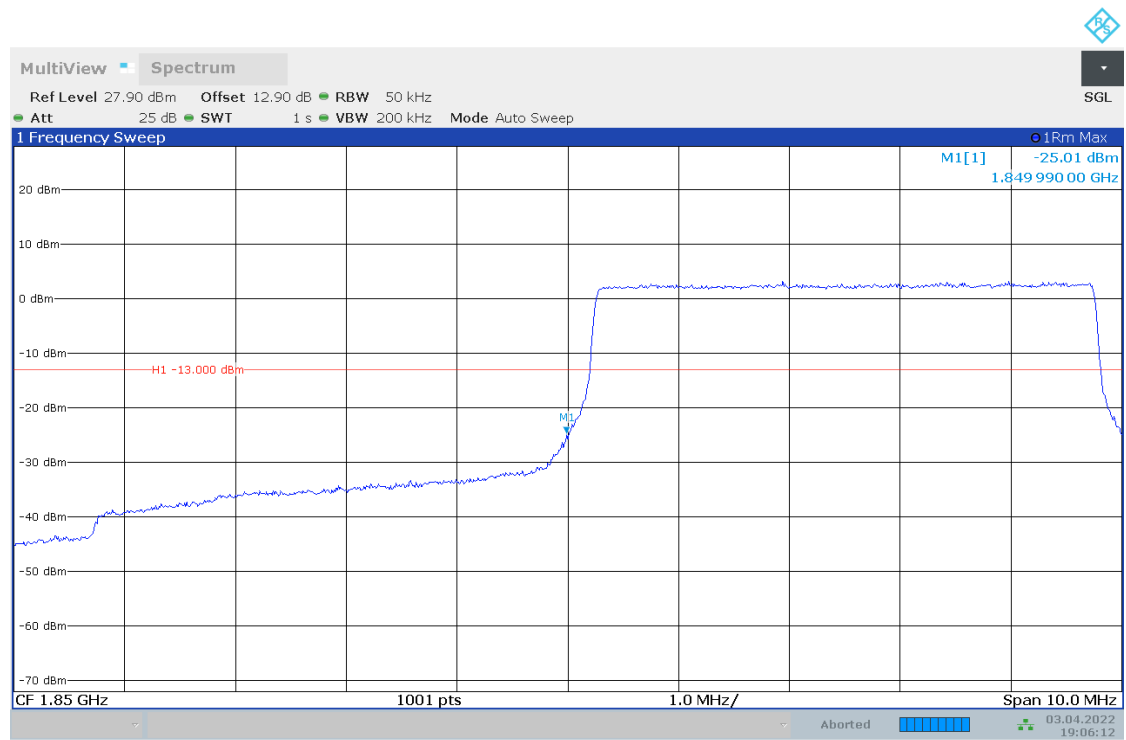
19:02:56 03.04.2022

5.2.6 TM1_1.4MHZ_HCH_RB1#5

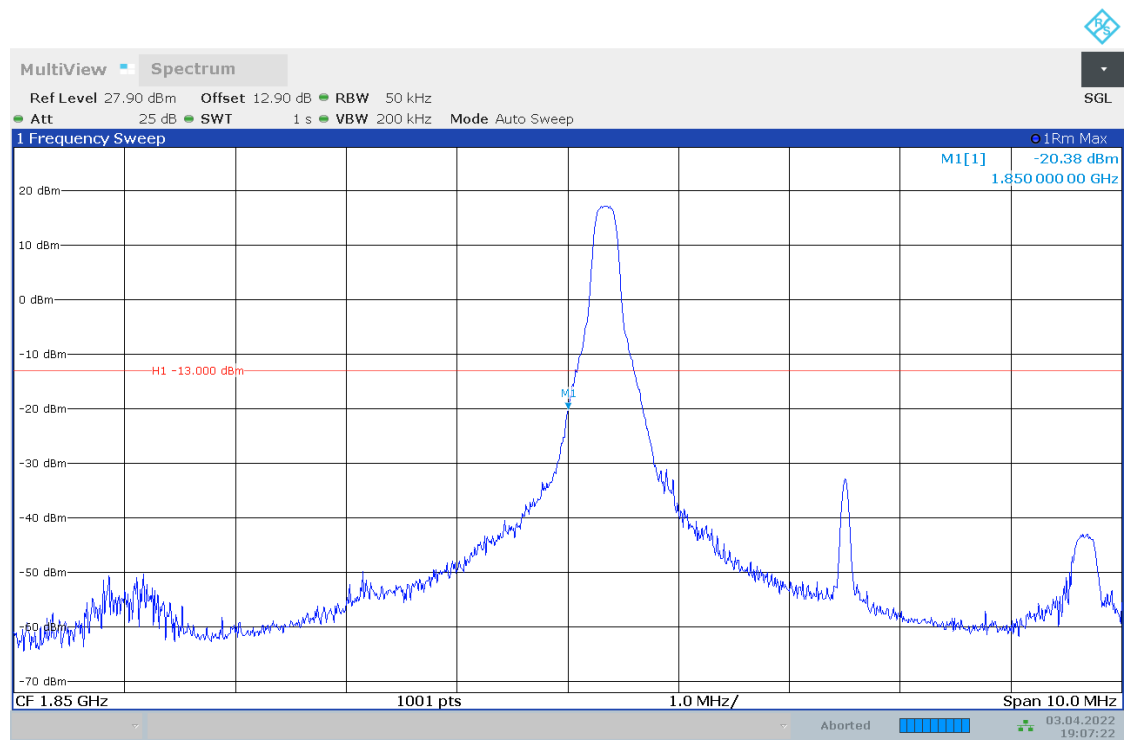


19:04:07 03.04.2022

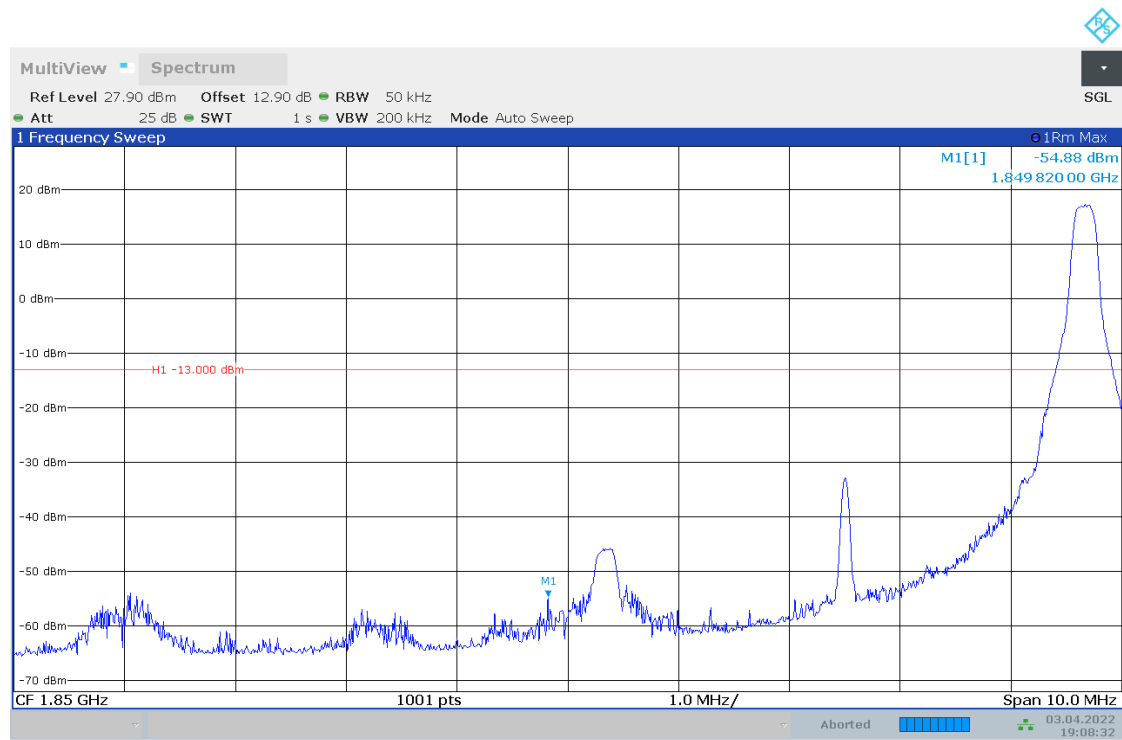
5.2.7 TM1_5MHZ_LCH_RB25#0



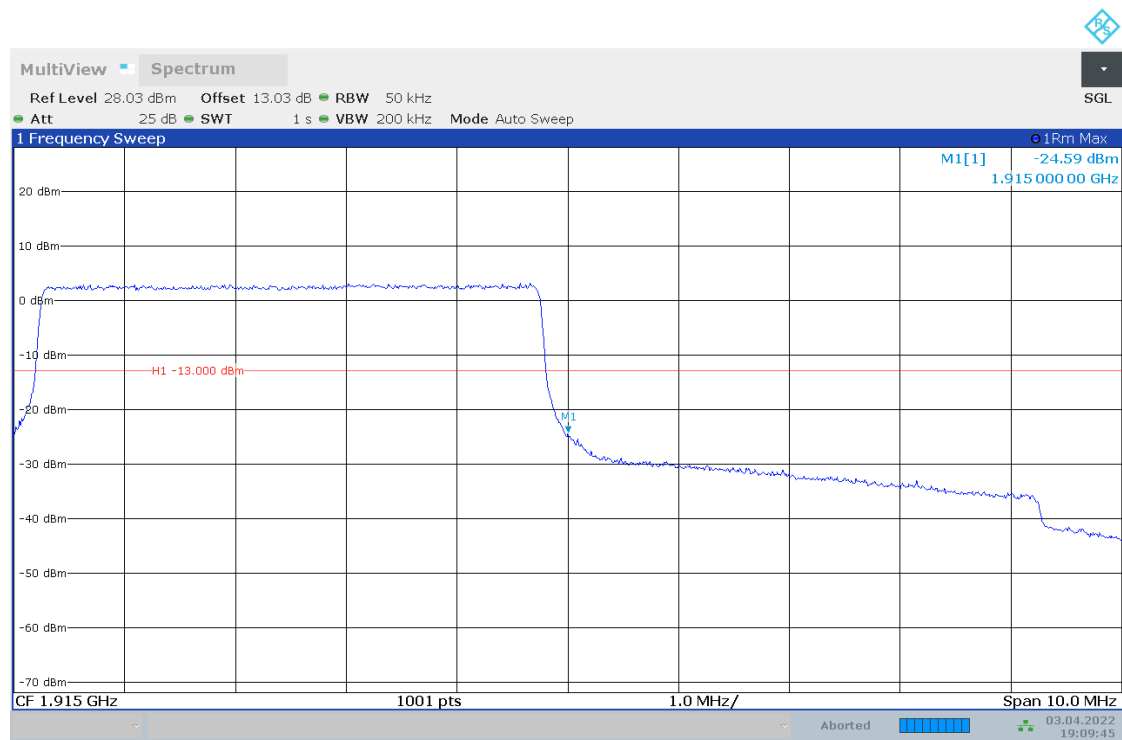
5.2.8 TM1_5MHZ_LCH_RB1#0



5.2.9 TM1_5MHZ_LCH_RB1#24



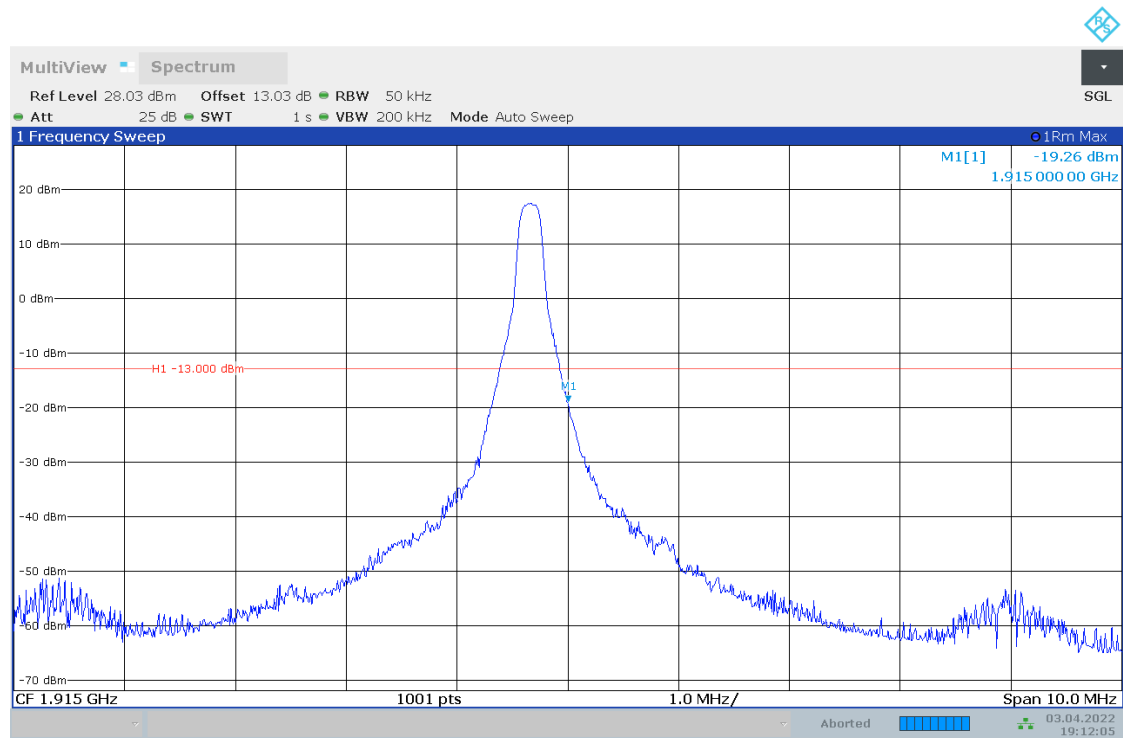
5.2.10 TM1_5MHZ_HCH_RB25#0



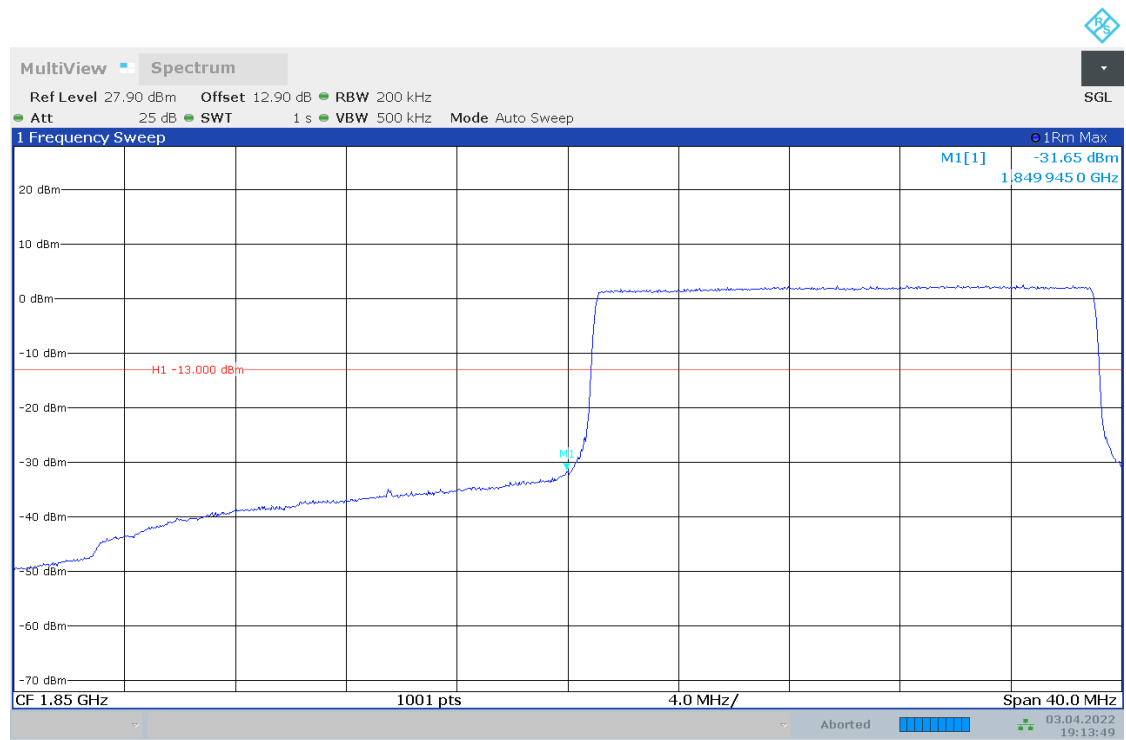
5.2.11 TM1_5MHZ_HCH_RB1#0



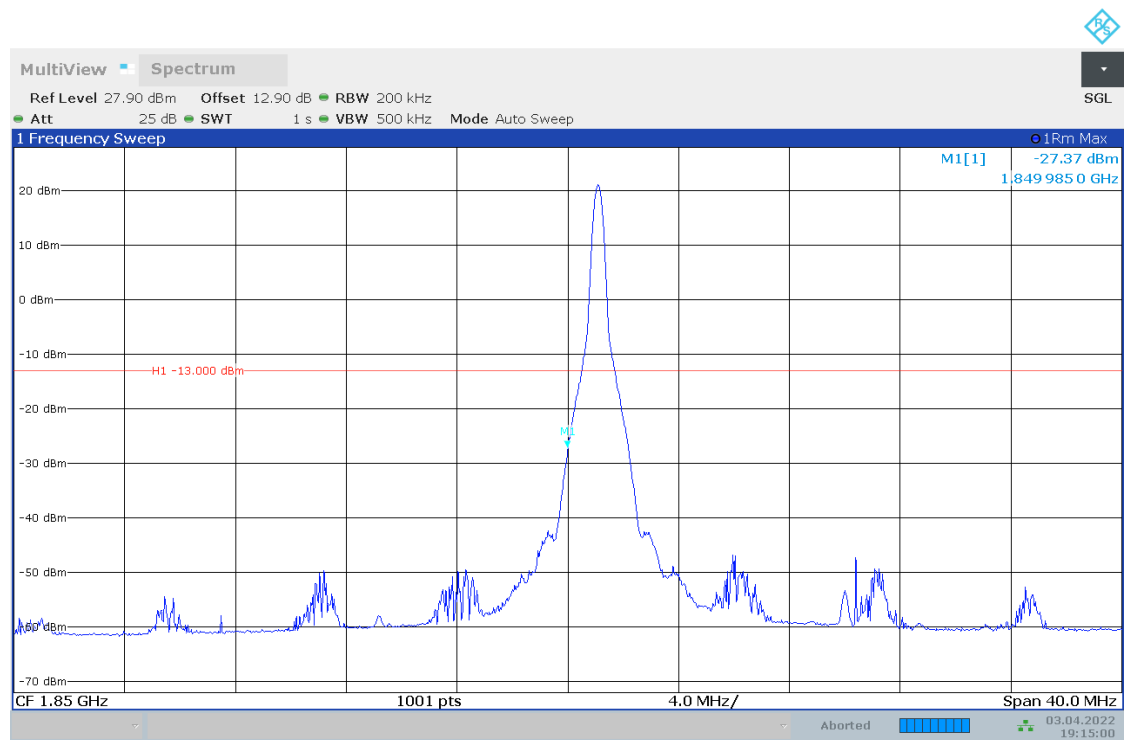
5.2.12 TM1_5MHZ_HCH_RB1#24



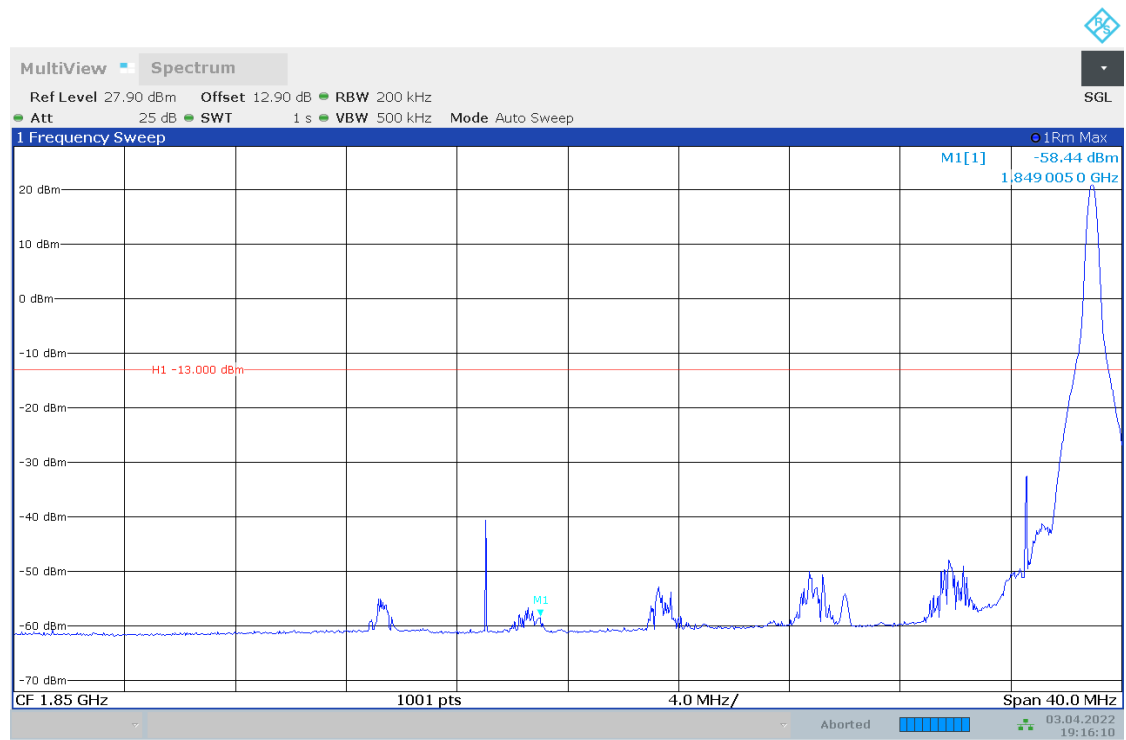
5.2.13 TM1_20MHZ_LCH_RB100#0



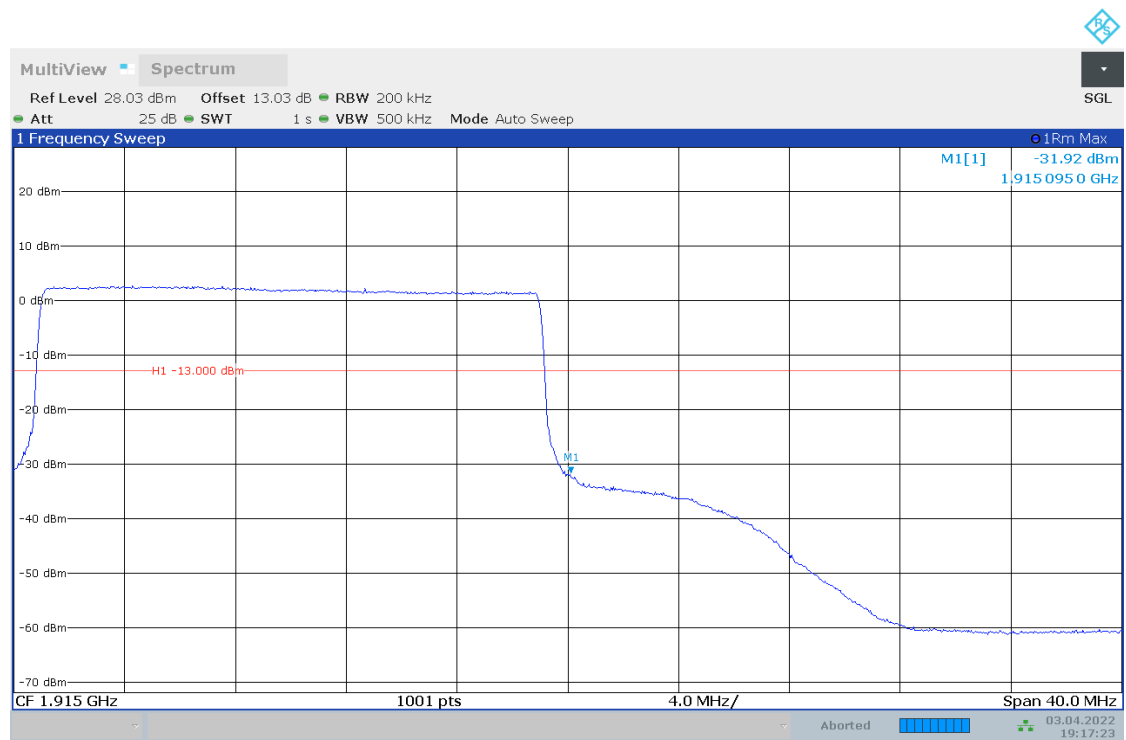
5.2.14 TM1_20MHZ_LCH_RB1#0



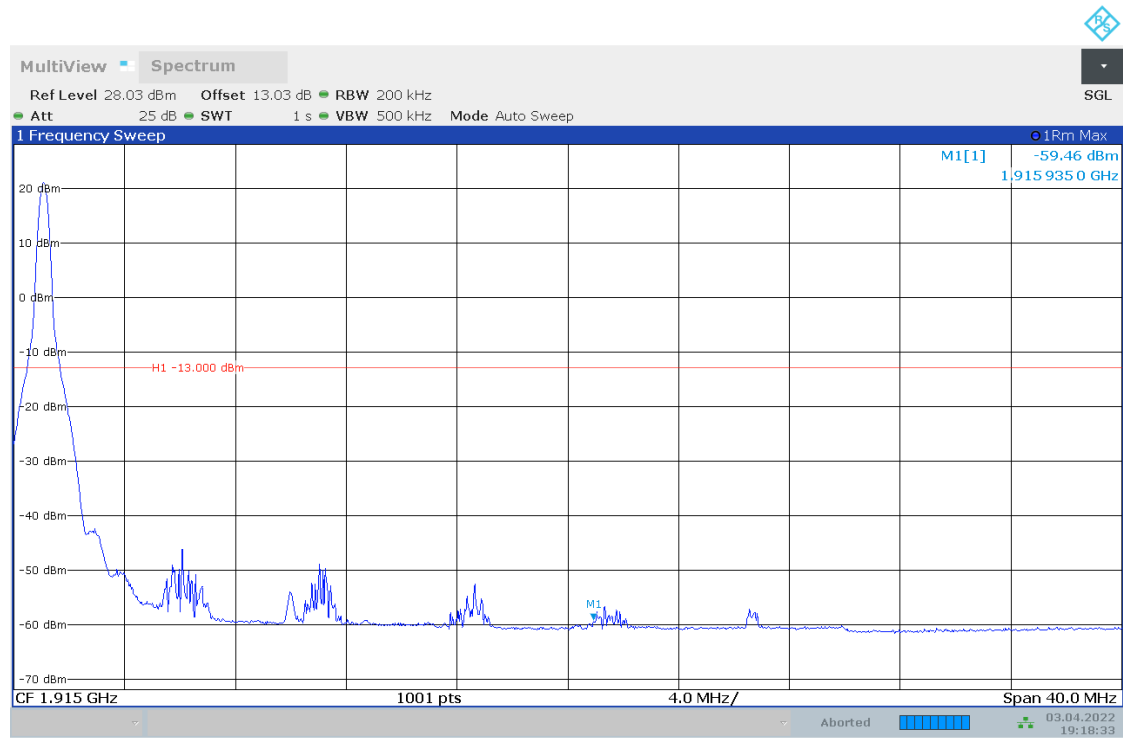
5.2.15 TM1_20MHZ_LCH_RB1#99



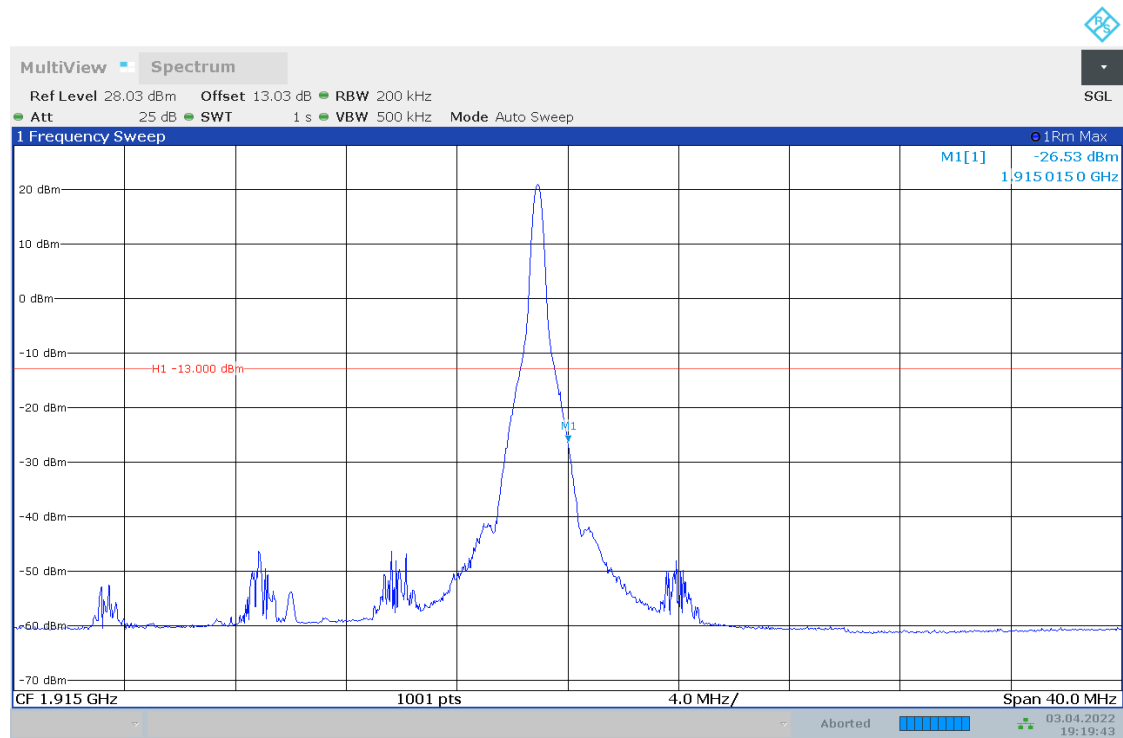
5.2.16 TM1_20MHZ_HCH_RB100#0



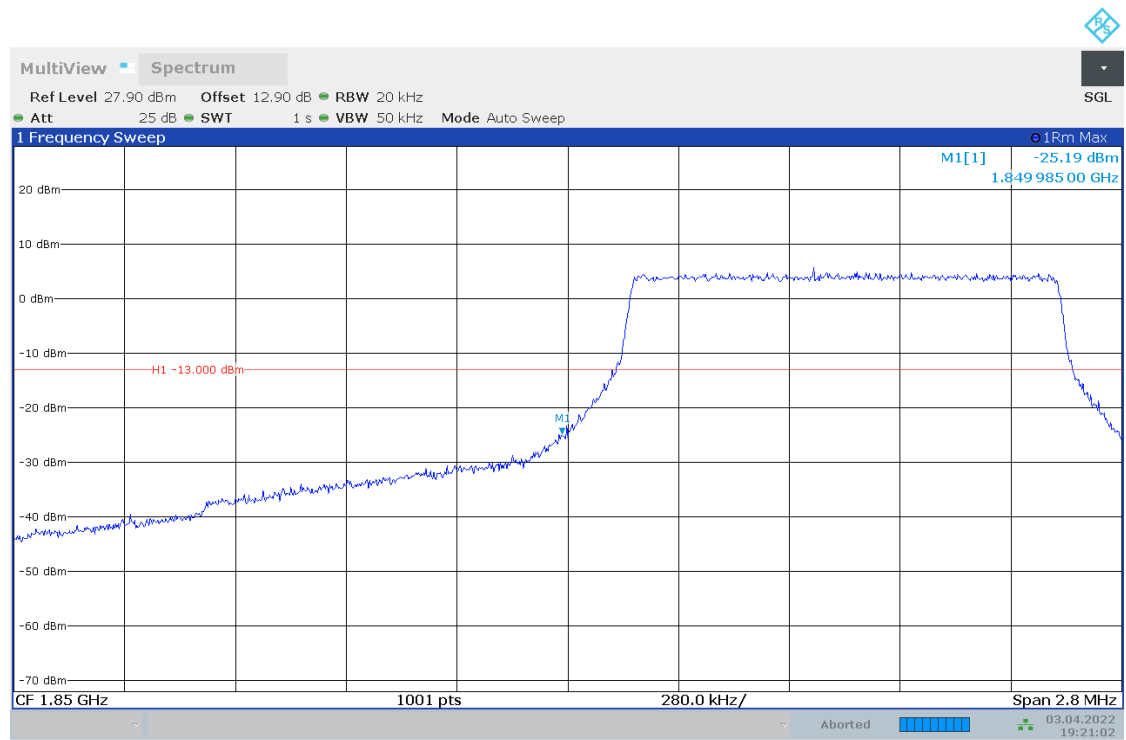
5.2.17 TM1_20MHZ_HCH_RB1#0



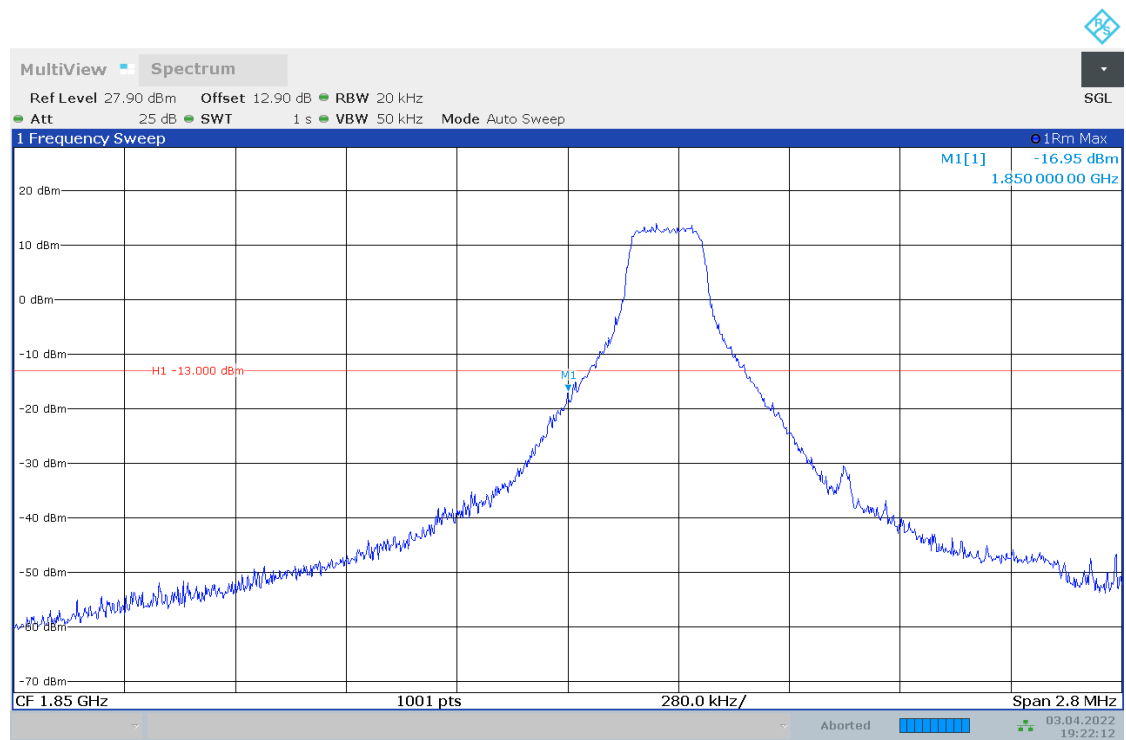
5.2.18 TM1_20MHZ_HCH_RB1#99



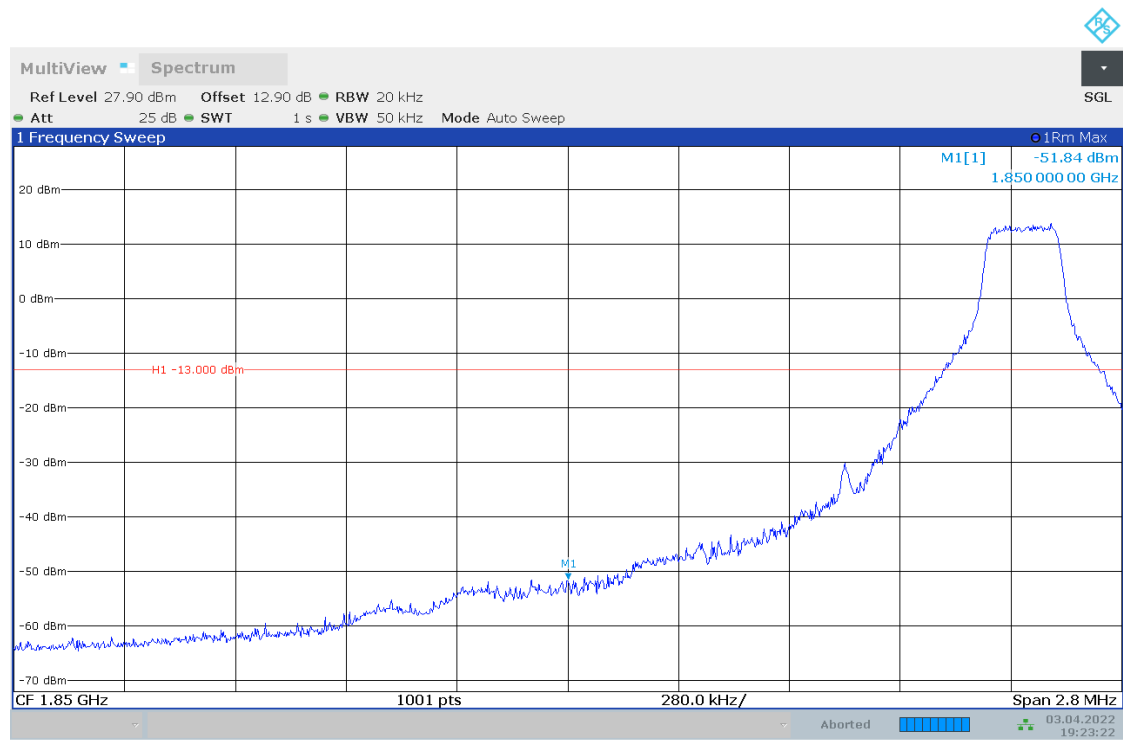
5.2.19 TM2_1.4MHZ_LCH_RB6#0



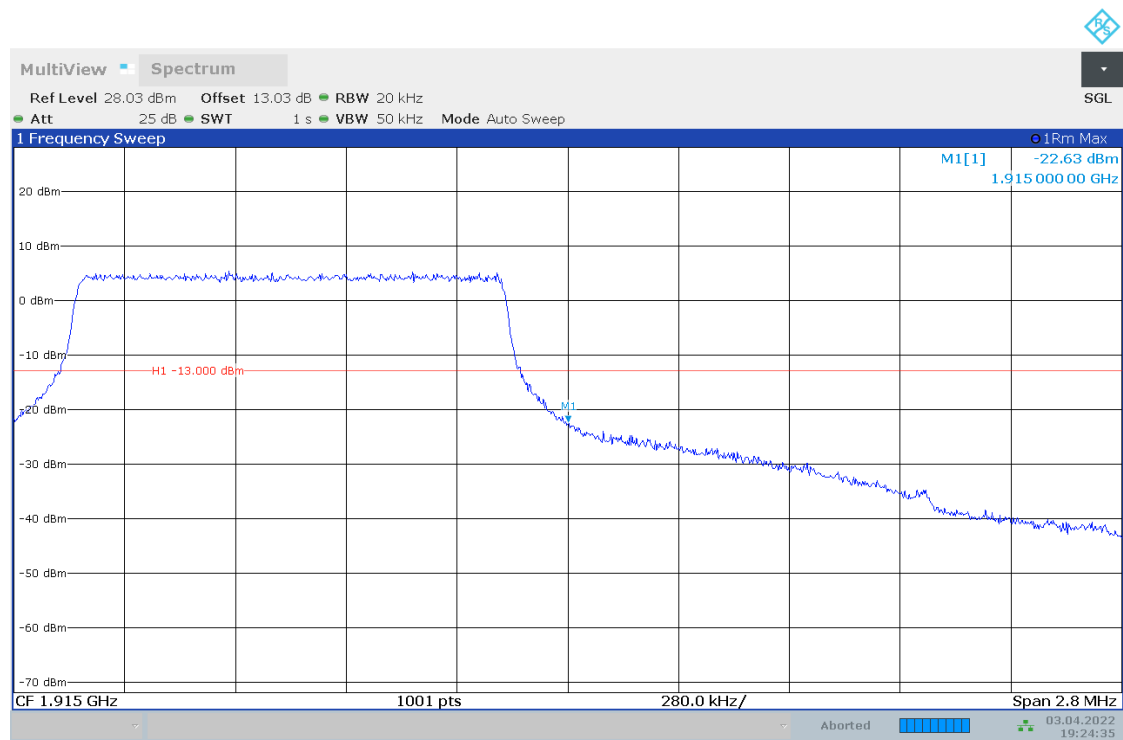
5.2.20 TM2_1.4MHZ_LCH_RB1#0



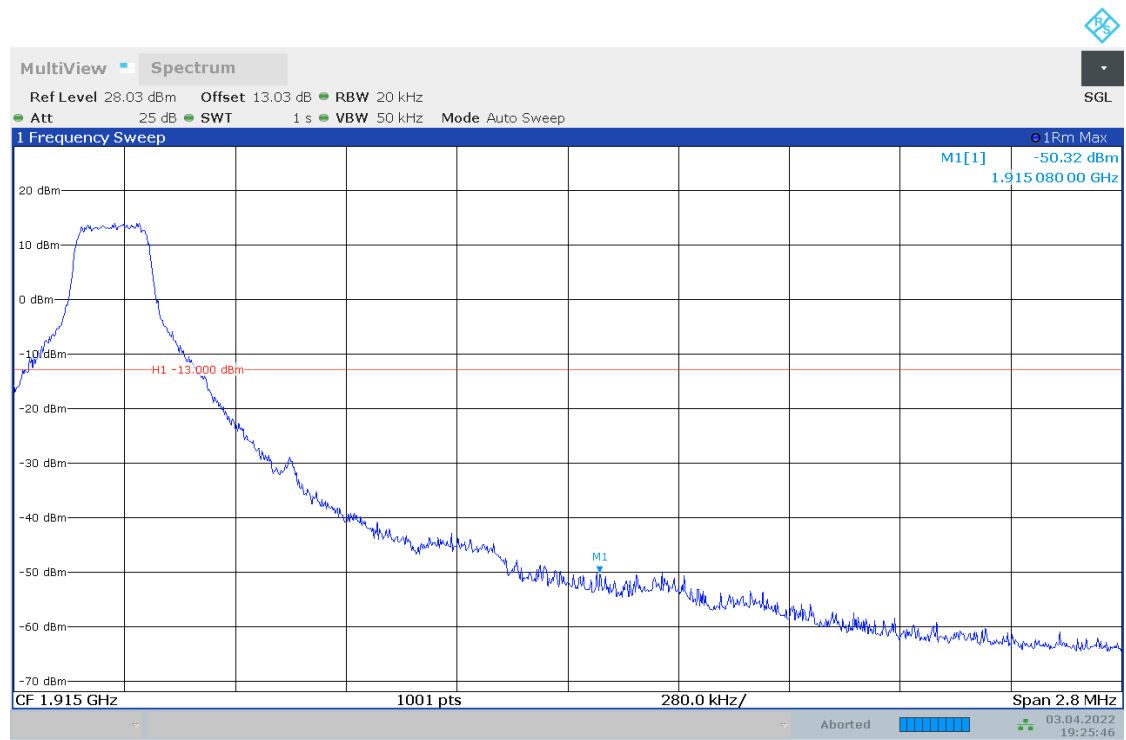
5.2.21 TM2_1.4MHZ_LCH_RB1#5



5.2.22 TM2_1.4MHZ_HCH_RB6#0



5.2.23 TM2_1.4MHZ_HCH_RB1#0



5.2.24 TM2_1.4MHZ_HCH_RB1#5

