

Appendix for LTE Band 2

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	23.85	-3.2	20.65	33	PASS
			RB1#0	QPSK	25.01	-3.2	21.81	33	PASS
			RB1#5	QPSK	24.84	-3.2	21.64	33	PASS
		MCH	RB6#0	QPSK	23.86	-3.2	20.66	33	PASS
			RB1#0	QPSK	24.94	-3.2	21.74	33	PASS
			RB1#5	QPSK	24.82	-3.2	21.62	33	PASS
		HCH	RB6#0	QPSK	23.77	-3.2	20.57	33	PASS
			RB1#0	QPSK	24.88	-3.2	21.68	33	PASS
			RB1#5	QPSK	24.72	-3.2	21.52	33	PASS
	5	LCH	RB25#0	QPSK	23.93	-3.2	20.73	33	PASS
			RB1#0	QPSK	25.01	-3.2	21.81	33	PASS
			RB1#24	QPSK	24.85	-3.2	21.65	33	PASS
		MCH	RB25#0	QPSK	23.79	-3.2	20.59	33	PASS
			RB1#0	QPSK	24.85	-3.2	21.65	33	PASS
			RB1#24	QPSK	24.75	-3.2	21.55	33	PASS
		HCH	RB25#0	QPSK	23.78	-3.2	20.58	33	PASS
			RB1#0	QPSK	24.78	-3.2	21.58	33	PASS
			RB1#24	QPSK	24.74	-3.2	21.54	33	PASS
	20	LCH	RB100#0	QPSK	23.79	-3.2	20.59	33	PASS
			RB1#0	QPSK	24.76	-3.2	21.56	33	PASS
			RB1#99	QPSK	24.67	-3.2	21.47	33	PASS
		MCH	RB100#0	QPSK	23.65	-3.2	20.45	33	PASS
			RB1#0	QPSK	24.61	-3.2	21.41	33	PASS
			RB1#99	QPSK	24.61	-3.2	21.41	33	PASS
		HCH	RB100#0	QPSK	23.71	-3.2	20.51	33	PASS
			RB1#0	QPSK	24.61	-3.2	21.41	33	PASS
			RB1#99	QPSK	24.47	-3.2	21.27	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	22.83	-3.2	19.63	33	PASS
			RB1#0	16QAM	24.18	-3.2	20.98	33	PASS
			RB1#5	16QAM	24.11	-3.2	20.91	33	PASS
		MCH	RB6#0	16QAM	22.79	-3.2	19.59	33	PASS
			RB1#0	16QAM	24.06	-3.2	20.86	33	PASS
			RB1#5	16QAM	23.99	-3.2	20.79	33	PASS
		HCH	RB6#0	16QAM	22.76	-3.2	19.56	33	PASS
			RB1#0	16QAM	23.91	-3.2	20.71	33	PASS
			RB1#5	16QAM	23.74	-3.2	20.54	33	PASS
	5	LCH	RB25#0	16QAM	22.83	-3.2	19.63	33	PASS
			RB1#0	16QAM	24.19	-3.2	20.99	33	PASS
			RB1#24	16QAM	24.11	-3.2	20.91	33	PASS
		MCH	RB25#0	16QAM	22.72	-3.2	19.52	33	PASS
			RB1#0	16QAM	24.24	-3.2	21.04	33	PASS
			RB1#24	16QAM	24.06	-3.2	20.86	33	PASS
		HCH	RB25#0	16QAM	22.71	-3.2	19.51	33	PASS
			RB1#0	16QAM	24.07	-3.2	20.87	33	PASS
			RB1#24	16QAM	24.06	-3.2	20.86	33	PASS
	20	LCH	RB100#0	16QAM	22.72	-3.2	19.52	33	PASS
			RB1#0	16QAM	24.15	-3.2	20.95	33	PASS
			RB1#99	16QAM	24.02	-3.2	20.82	33	PASS
		MCH	RB100#0	16QAM	22.56	-3.2	19.36	33	PASS
			RB1#0	16QAM	24.06	-3.2	20.86	33	PASS
			RB1#99	16QAM	23.91	-3.2	20.71	33	PASS
		HCH	RB100#0	16QAM	22.61	-3.2	19.41	33	PASS
			RB1#0	16QAM	23.79	-3.2	20.59	33	PASS
			RB1#99	16QAM	23.75	-3.2	20.55	33	PASS

2. APPENDIX B - PEAK-TO-AVERAGE RATIO

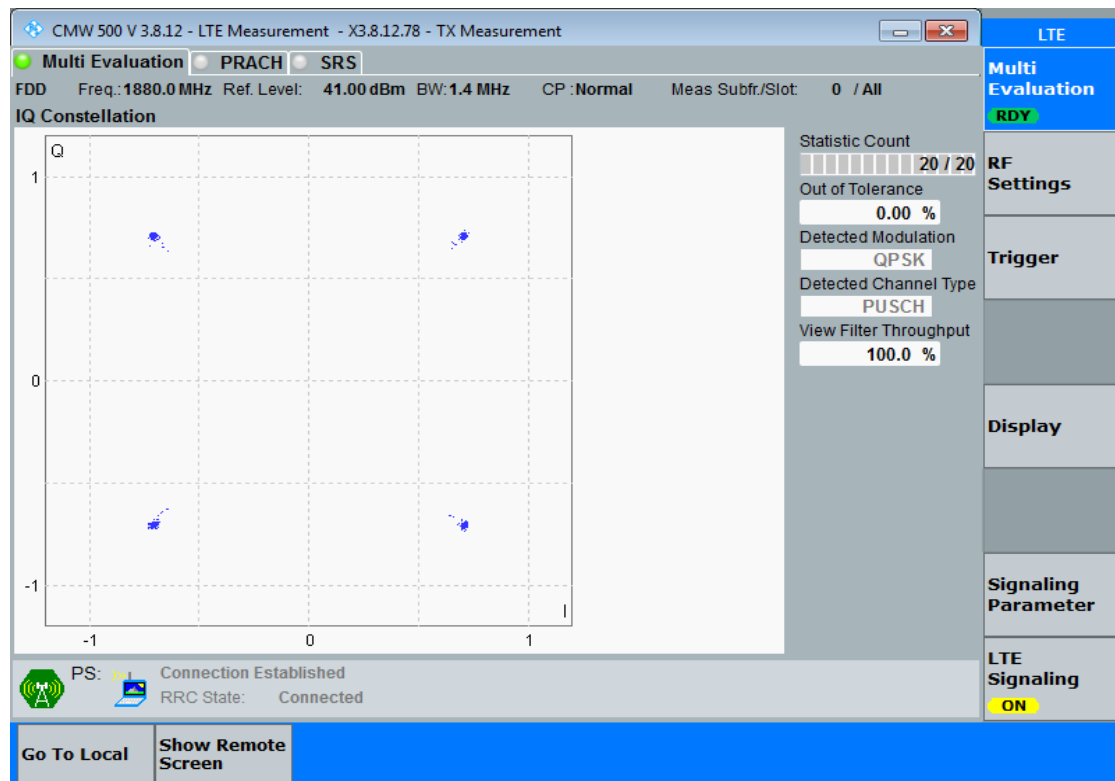
2.1 TEST RESULTS

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	4.80	13	PASS	
			RB1#0	QPSK	3.70	13	PASS	
			RB1#5	QPSK	3.71	13	PASS	
	5		RB25#0	QPSK	5.44	13	PASS	
			RB1#0	QPSK	3.75	13	PASS	
			RB1#24	QPSK	3.77	13	PASS	
			20	RB100#0	QPSK	5.53	13	PASS
				RB1#0	QPSK	3.70	13	PASS
				RB1#99	QPSK	3.80	13	PASS
TM2	1.4		RB6#0	16QAM	5.62	13	PASS	
			RB1#0	16QAM	4.49	13	PASS	
			RB1#5	16QAM	4.55	13	PASS	
	5		RB25#0	16QAM	6.44	13	PASS	
			RB1#0	16QAM	4.37	13	PASS	
			RB1#24	16QAM	4.44	13	PASS	
			20	RB100#0	16QAM	6.50	13	PASS
				RB1#0	16QAM	4.40	13	PASS
				RB1#99	16QAM	4.36	13	PASS
TM3	1.4		RB6#0	64QAM	6.48	13	PASS	
			RB1#0	64QAM	5.29	13	PASS	
			RB1#5	64QAM	5.23	13	PASS	
	5		RB25#0	64QAM	7.01	13	PASS	
			RB1#0	64QAM	5.34	13	PASS	
			RB1#24	64QAM	5.46	13	PASS	
			20	RB100#0	64QAM	7.39	13	PASS
				RB1#0	64QAM	5.26	13	PASS
				RB1#99	64QAM	5.37	13	PASS

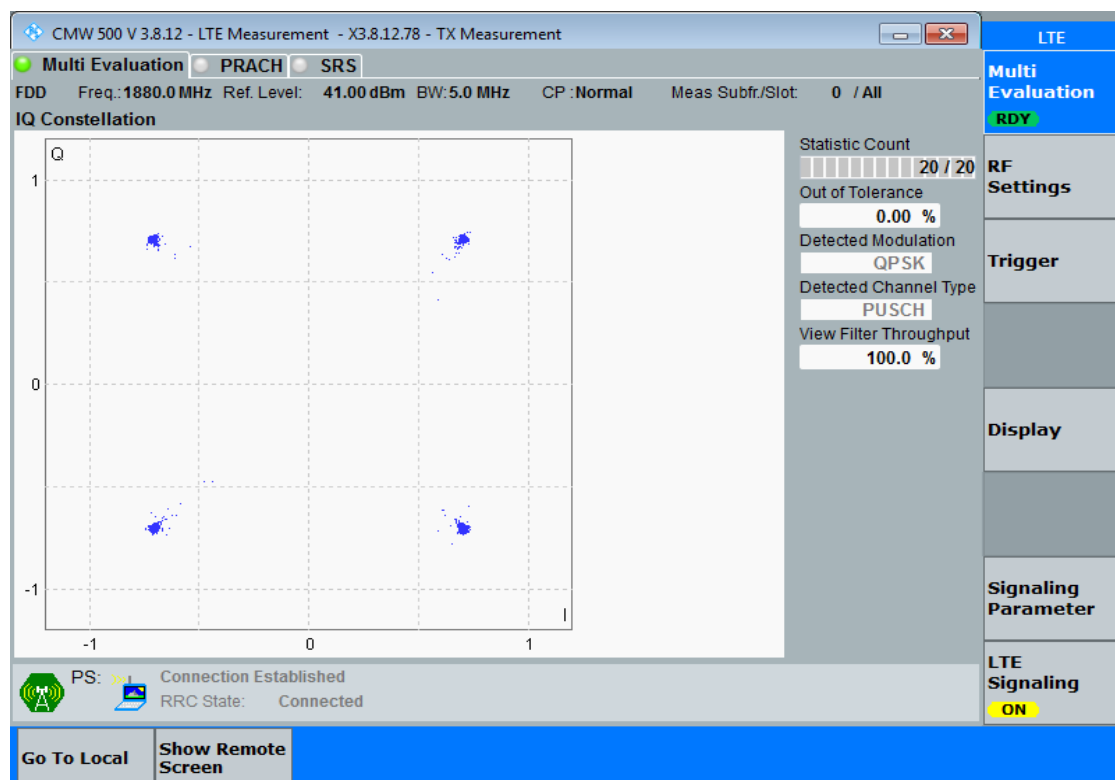
3. APPENDIX C - MODULATION CHARACTERISTICS

3.1 TEST PLOTS

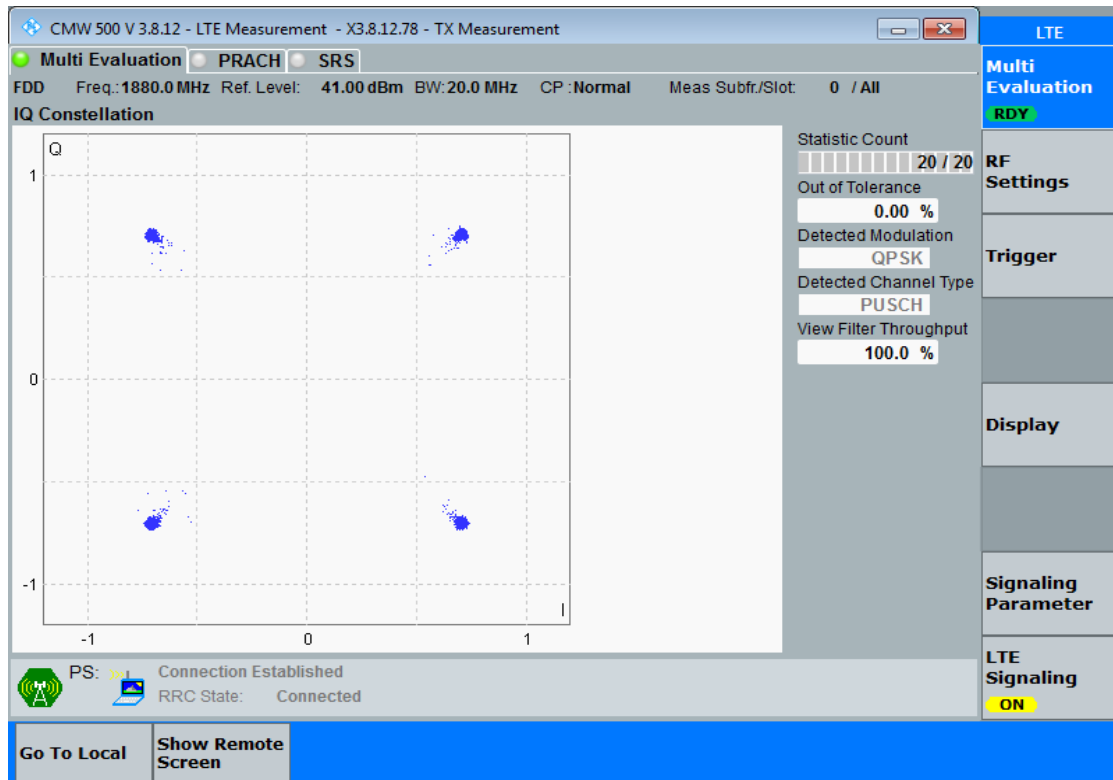
3.1.1 TM1_1.4MHZ_MCH_RB6#0



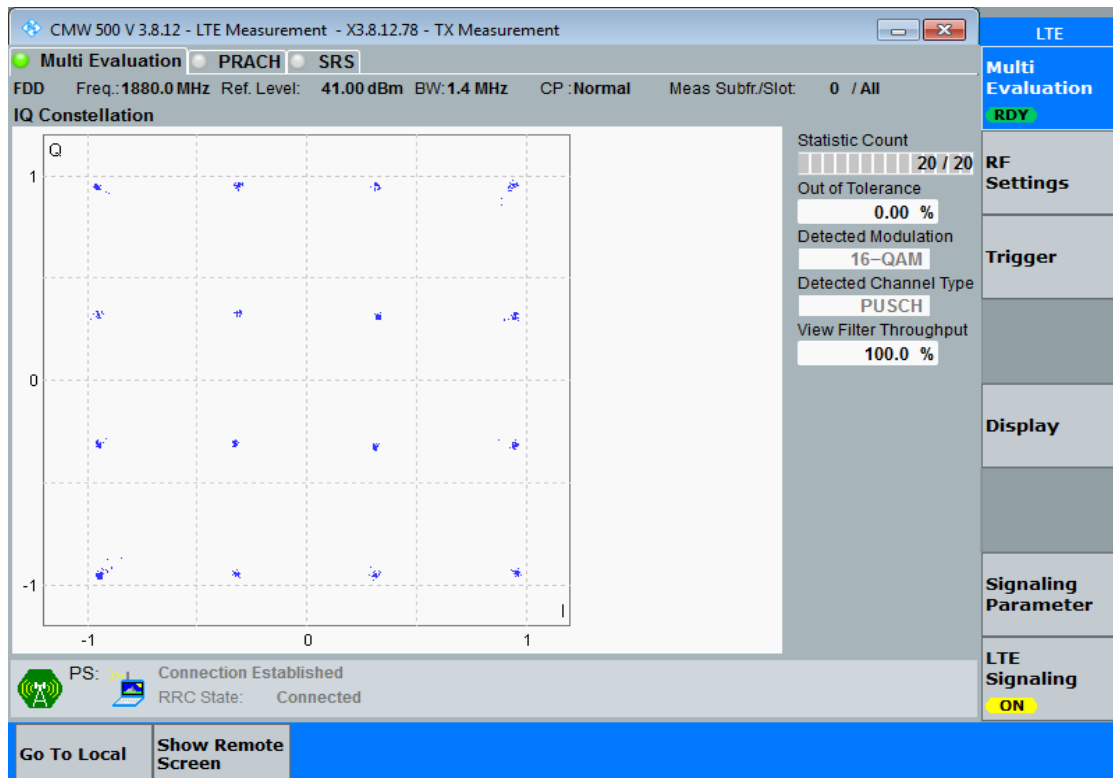
3.1.2 TM1_5MHZ_MCH_RB25#0



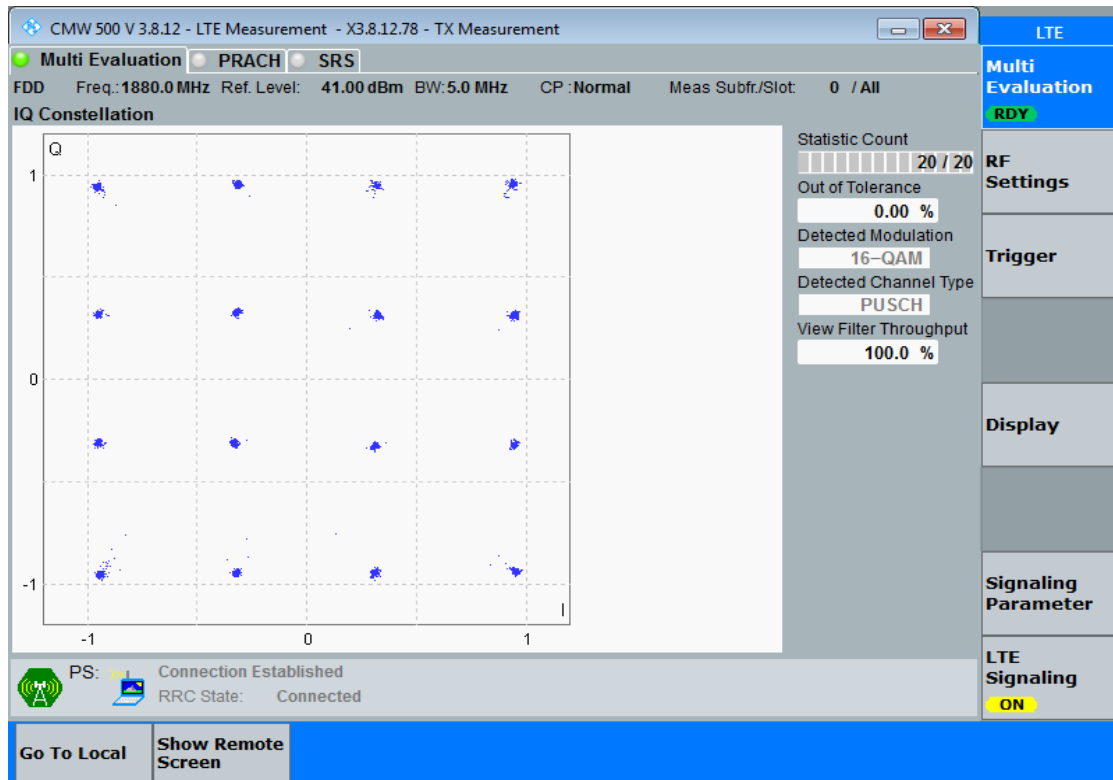
3.1.3 TM1_20MHZ_MCH_RB100#0



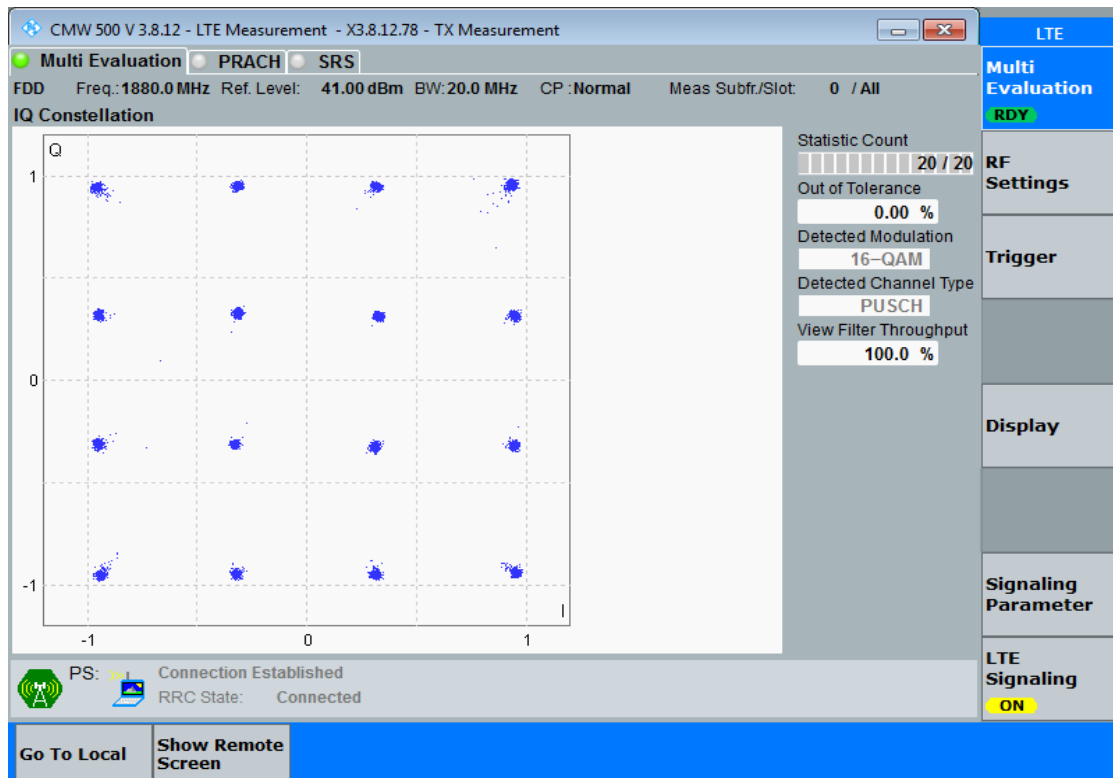
3.1.4 TM2_1.4MHZ_MCH_RB6#0



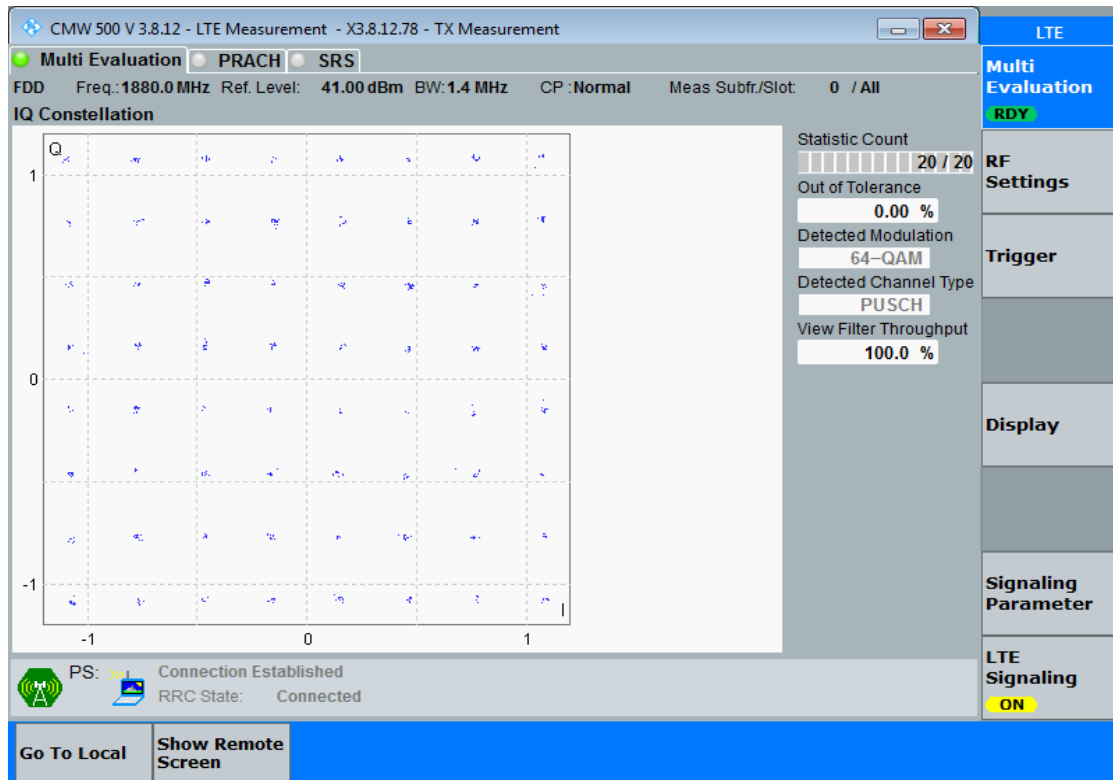
3.1.5 TM2_5MHZ_MCH_RB25#0



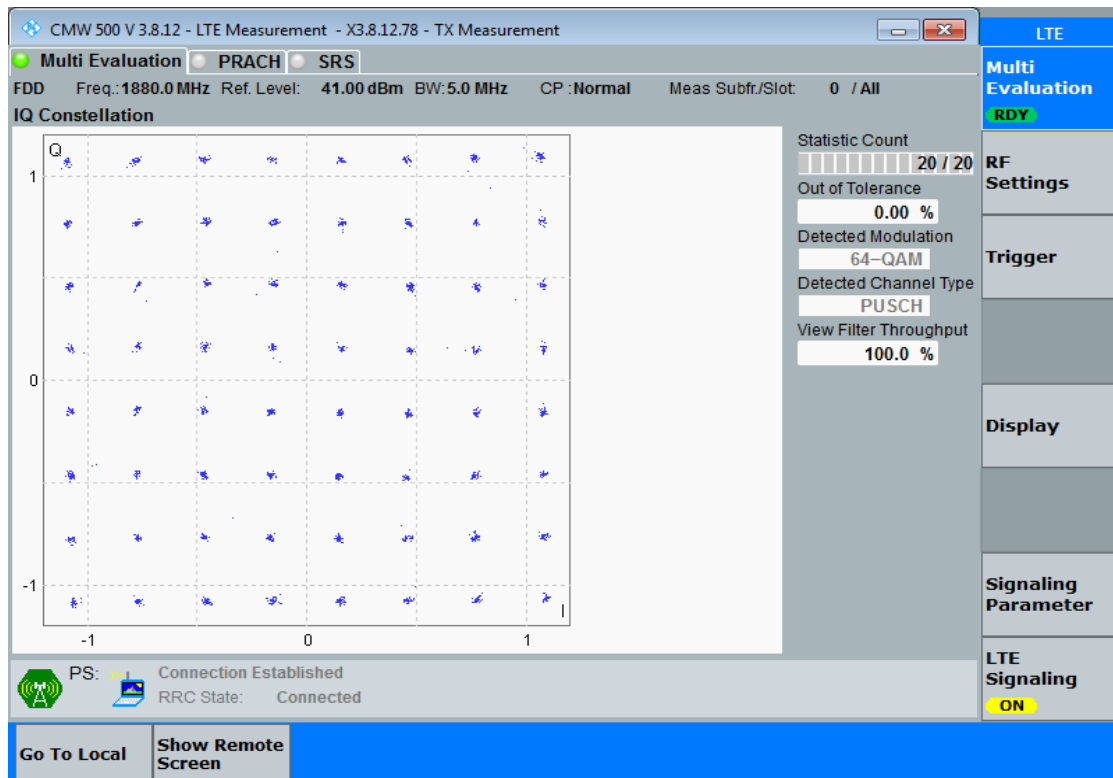
3.1.6 TM2_20MHZ_MCH_RB100#0



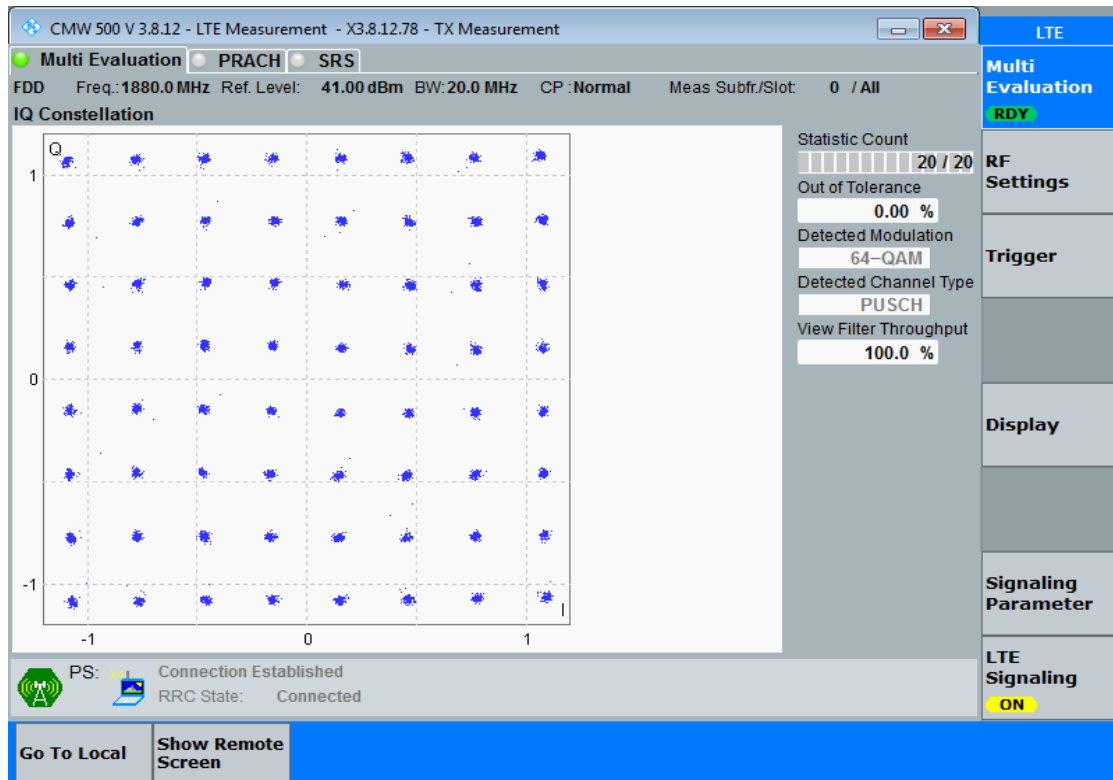
3.1.7 TM3_1.4MHZ_MCH_RB6#0



3.1.8 TM3_5MHZ_MCH_RB25#0



3.1.9 TM3_20MHZ_MCH_RB100#0



4. APPENDIX D - OCCUPIED BANDWIDTH

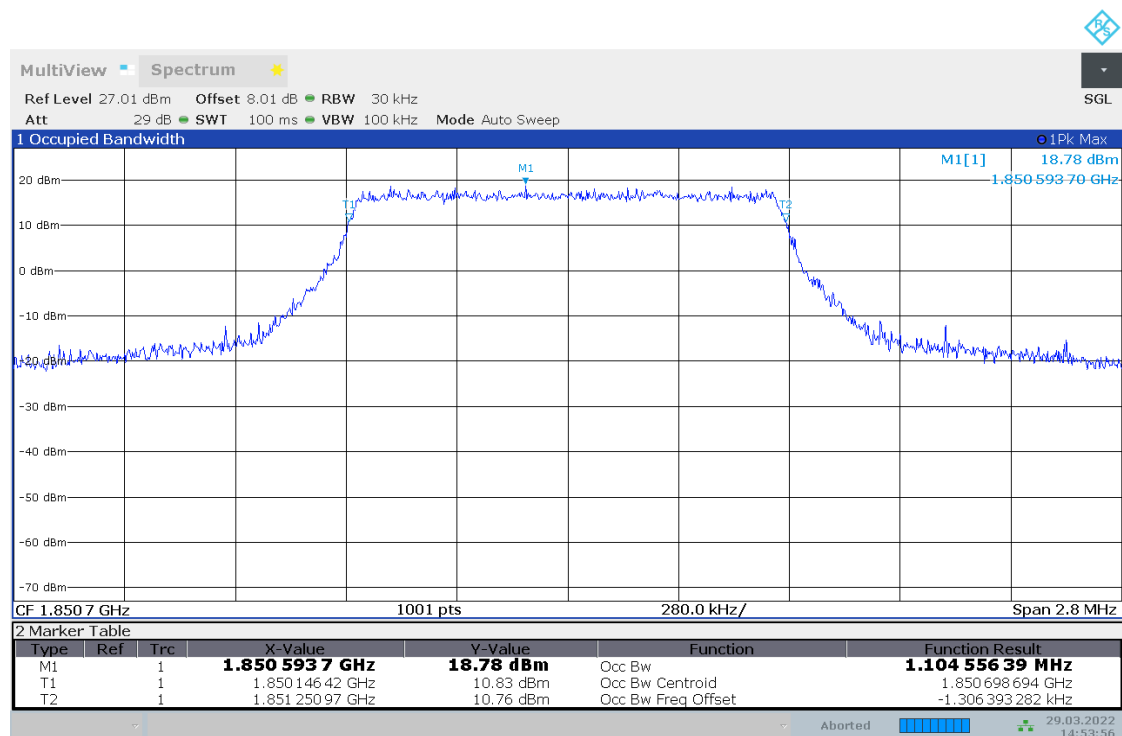
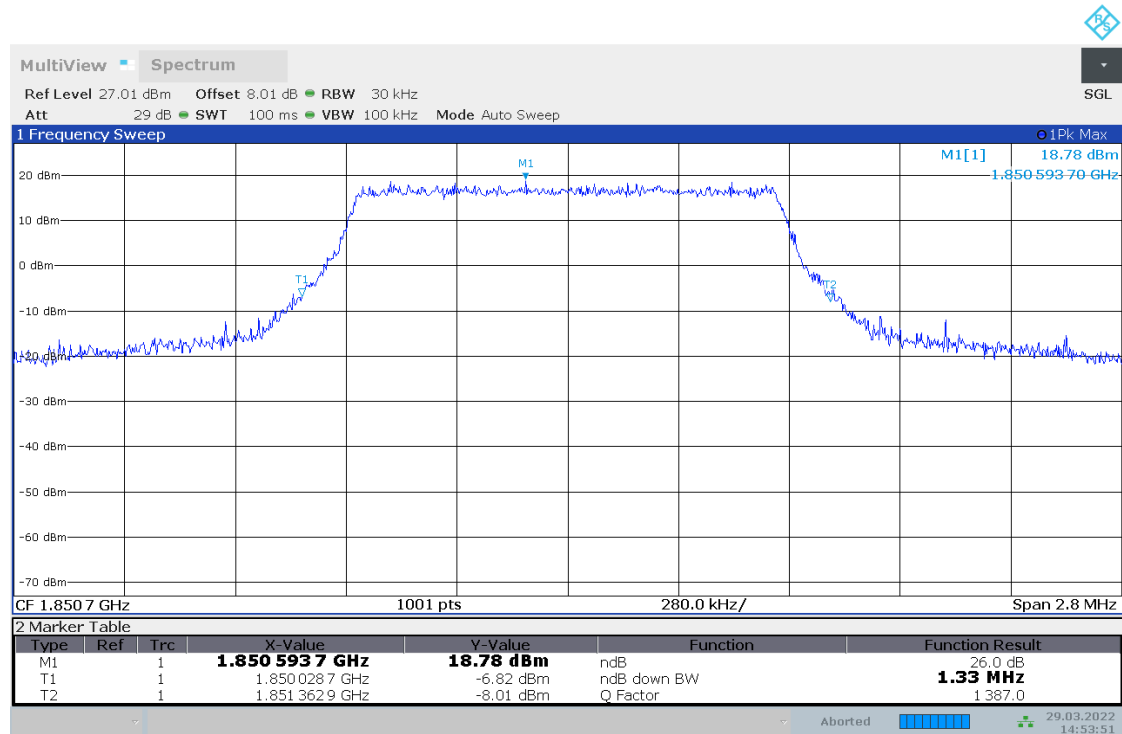
4.1 TEST RESULTS

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	1.33	PASS
		MCH	RB6#0	QPSK	1.11	1.37	PASS
		HCH	RB6#0	QPSK	1.11	1.34	PASS
	3	LCH	RB15#0	QPSK	2.71	3.04	PASS
		MCH	RB15#0	QPSK	2.71	3.06	PASS
		HCH	RB15#0	QPSK	2.70	3.04	PASS
	5	LCH	RB25#0	QPSK	4.52	5.14	PASS
		MCH	RB25#0	QPSK	4.52	5.16	PASS
		HCH	RB25#0	QPSK	4.52	5.20	PASS
	10	LCH	RB50#0	QPSK	9.00	10.01	PASS
		MCH	RB50#0	QPSK	9.00	10.07	PASS
		HCH	RB50#0	QPSK	9.00	10.07	PASS
	15	LCH	RB75#0	QPSK	13.48	15.02	PASS
		MCH	RB75#0	QPSK	13.50	15.04	PASS
		HCH	RB75#0	QPSK	13.51	15.04	PASS
	20	LCH	RB100#0	QPSK	18.06	20.10	PASS
		MCH	RB100#0	QPSK	18.07	20.06	PASS
		HCH	RB100#0	QPSK	18.02	20.06	PASS
TM2	1.4	LCH	RB6#0	16QAM	1.11	1.36	PASS
		MCH	RB6#0	16QAM	1.11	1.36	PASS
		HCH	RB6#0	16QAM	1.11	1.36	PASS
	3	LCH	RB15#0	16QAM	2.71	3.03	PASS
		MCH	RB15#0	16QAM	2.71	3.06	PASS
		HCH	RB15#0	16QAM	2.70	3.04	PASS
	5	LCH	RB25#0	16QAM	4.52	5.16	PASS
		MCH	RB25#0	16QAM	4.53	5.17	PASS
		HCH	RB25#0	16QAM	4.52	5.14	PASS
	10	LCH	RB50#0	16QAM	9.03	10.07	PASS
		MCH	RB50#0	16QAM	9.02	10.03	PASS
		HCH	RB50#0	16QAM	9.03	10.11	PASS
	15	LCH	RB75#0	16QAM	13.50	14.93	PASS
		MCH	RB75#0	16QAM	13.51	15.02	PASS
		HCH	RB75#0	16QAM	13.51	15.02	PASS
	20	LCH	RB100#0	16QAM	18.07	20.10	PASS
		MCH	RB100#0	16QAM	18.07	20.06	PASS
		HCH	RB100#0	16QAM	18.09	19.98	PASS

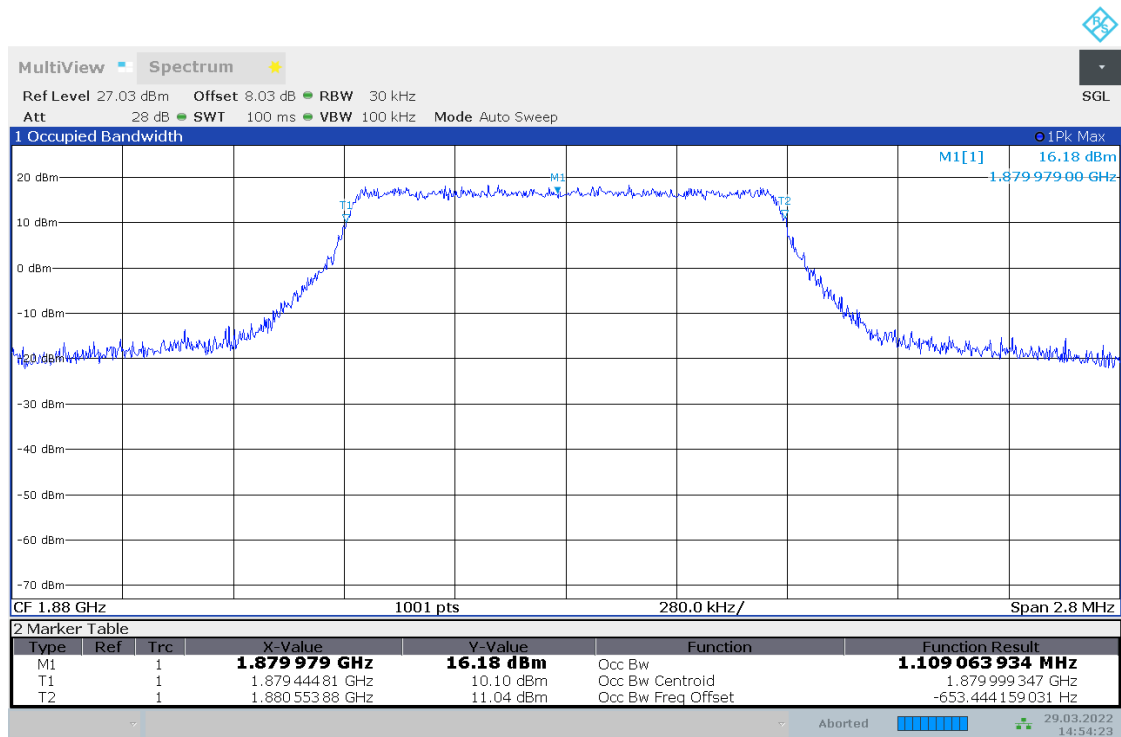
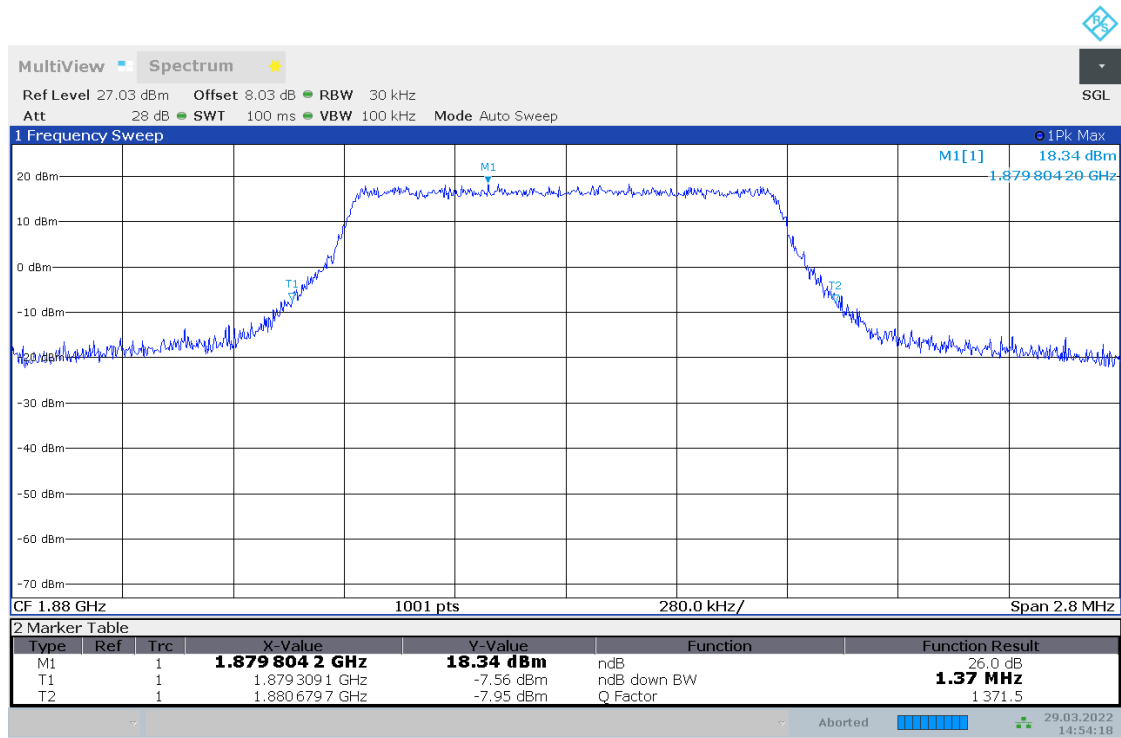
Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM3	1.4	LCH	RB6#0	64QAM	1.11	1.37	PASS
		MCH	RB6#0	64QAM	1.11	1.38	PASS
		HCH	RB6#0	64QAM	1.11	1.36	PASS
	3	LCH	RB15#0	64QAM	2.71	3.03	PASS
		MCH	RB15#0	64QAM	2.70	3.04	PASS
		HCH	RB15#0	64QAM	2.71	3.06	PASS
	5	LCH	RB25#0	64QAM	4.54	5.17	PASS
		MCH	RB25#0	64QAM	4.53	5.18	PASS
		HCH	RB25#0	64QAM	4.52	5.21	PASS
	10	LCH	RB50#0	64QAM	9.02	10.11	PASS
		MCH	RB50#0	64QAM	9.00	10.13	PASS
		HCH	RB50#0	64QAM	9.01	9.97	PASS
	15	LCH	RB75#0	64QAM	13.50	15.02	PASS
		MCH	RB75#0	64QAM	13.51	15.07	PASS
		HCH	RB75#0	64QAM	13.51	14.98	PASS
	20	LCH	RB100#0	64QAM	18.07	20.14	PASS
		MCH	RB100#0	64QAM	18.07	20.02	PASS
		HCH	RB100#0	64QAM	18.06	20.02	PASS

4.2 TEST PLOTS

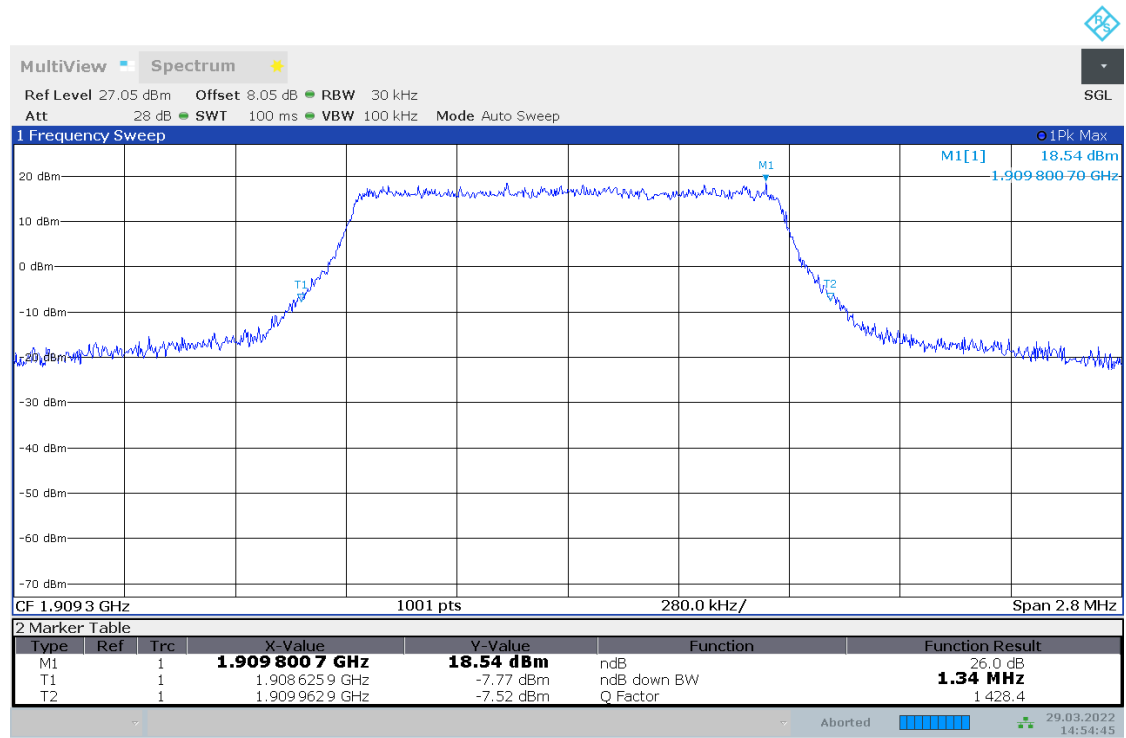
4.2.1 TM1_1.4MHZ_LCH_RB6#0



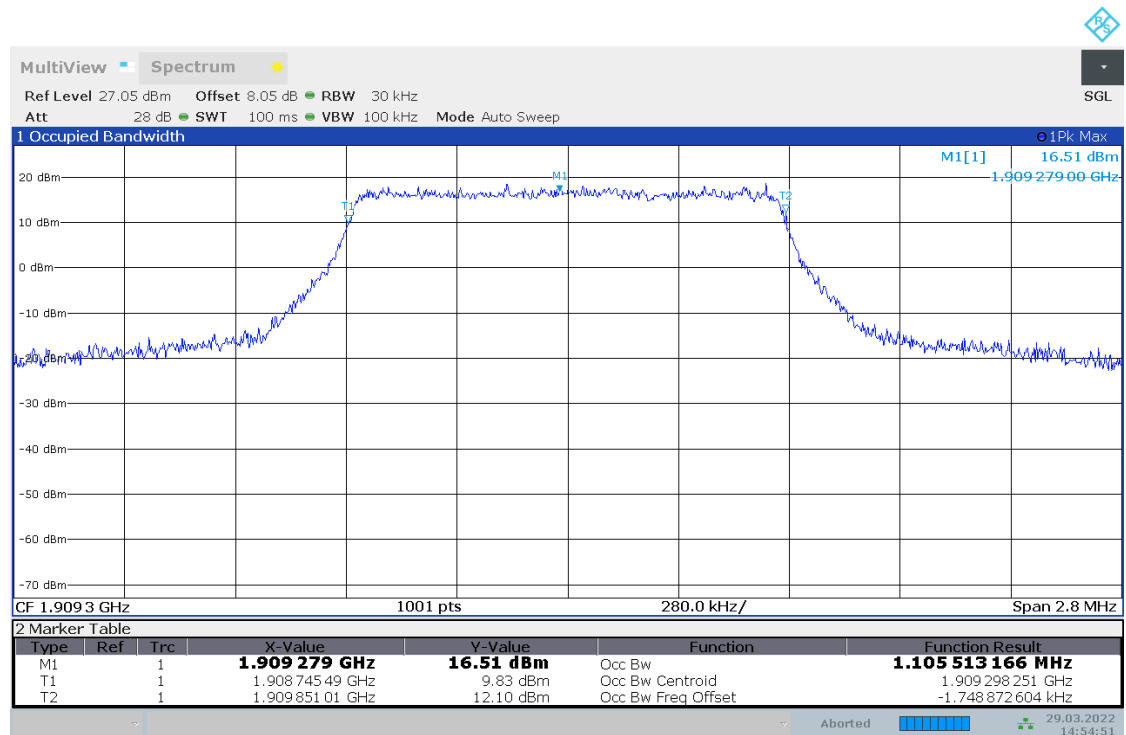
4.2.2 TM1_1.4MHZ_MCH_RB6#0



4.2.3 TM1_1.4MHZ_HCH_RB6#0

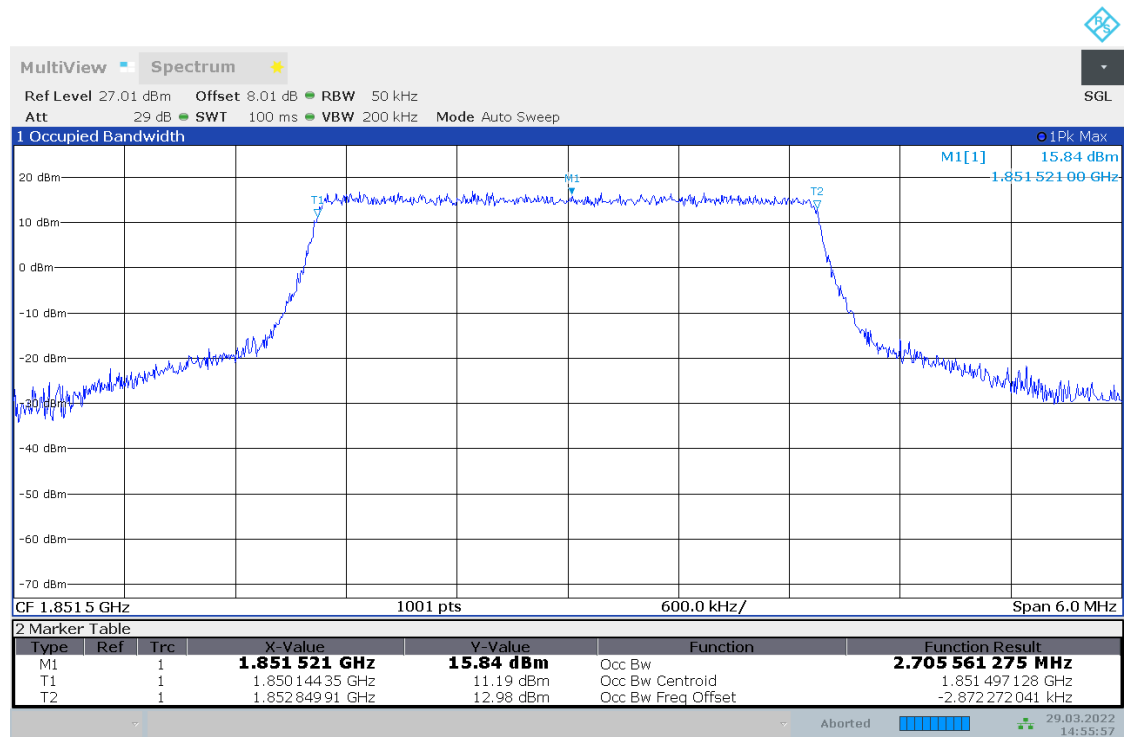
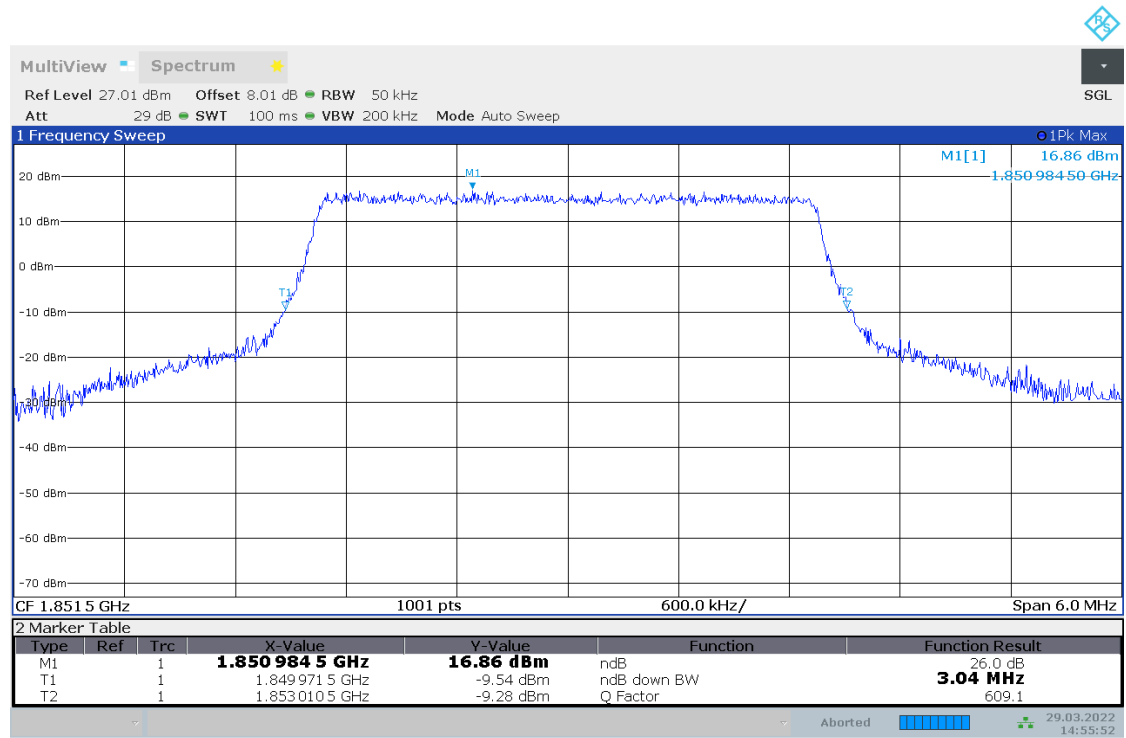


14:54:46 29.03.2022

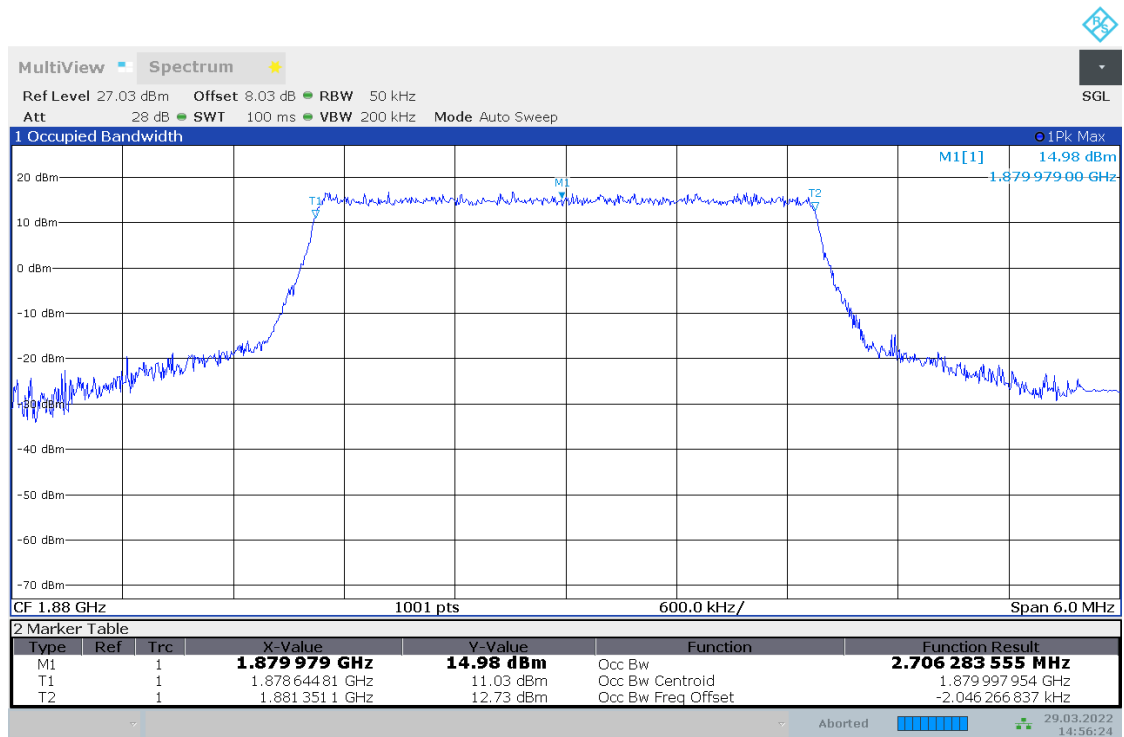
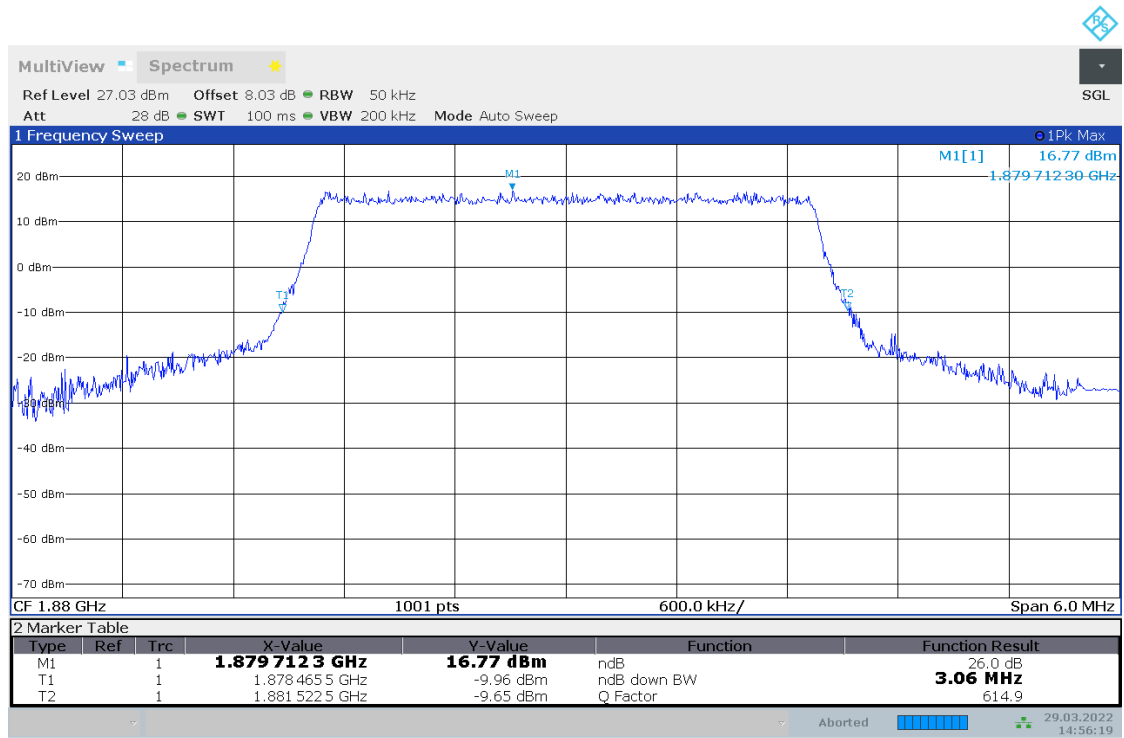


14:54:51 29.03.2022

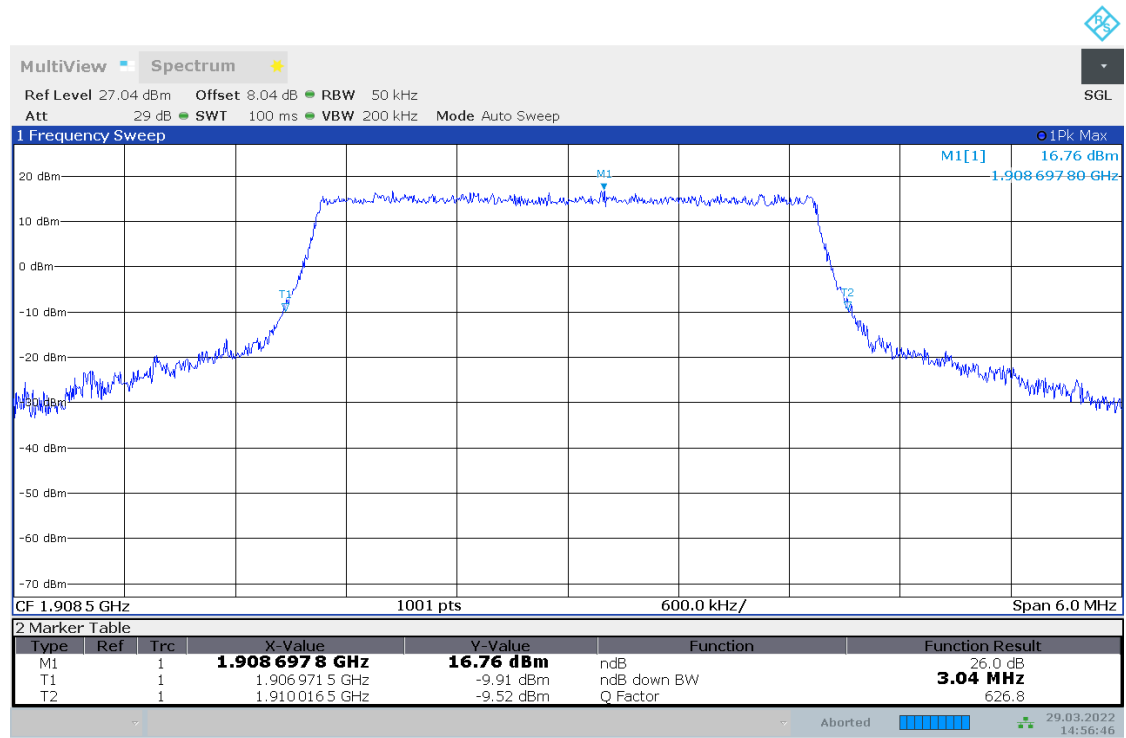
4.2.4 TM1_3MHZ_LCH_RB15#0



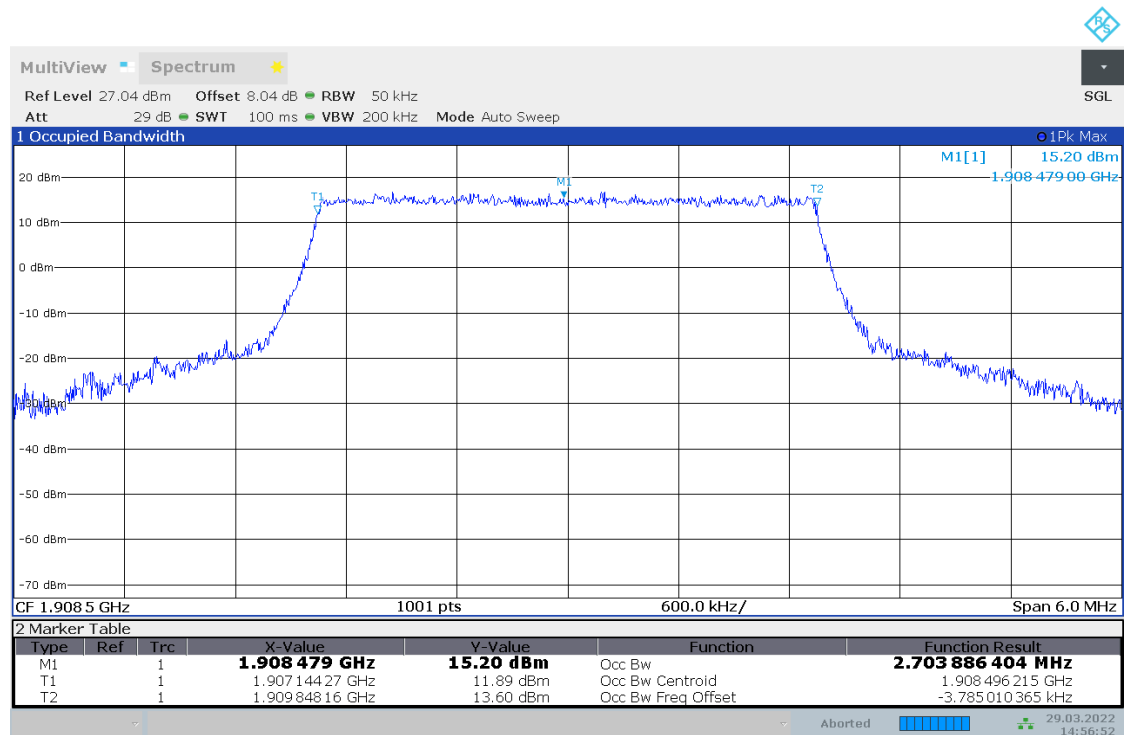
4.2.5 TM1_3MHZ_MCH_RB15#0



4.2.6 TM1_3MHZ_HCH_RB15#0

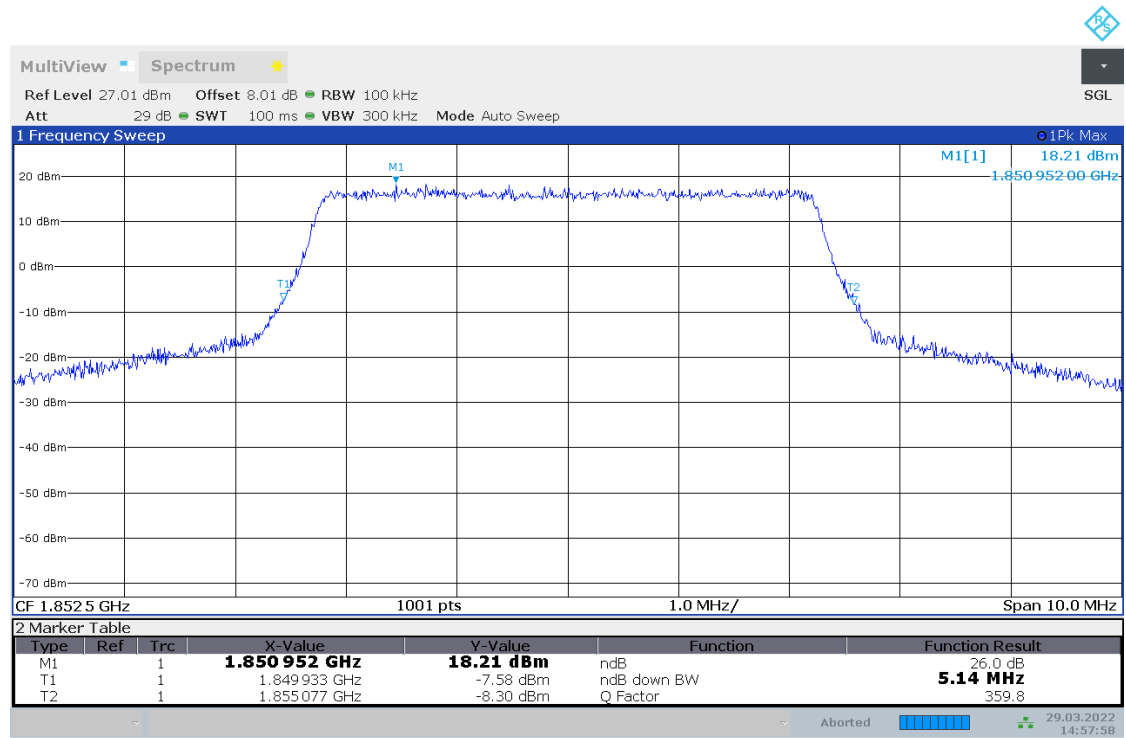


14:56:47 29.03.2022

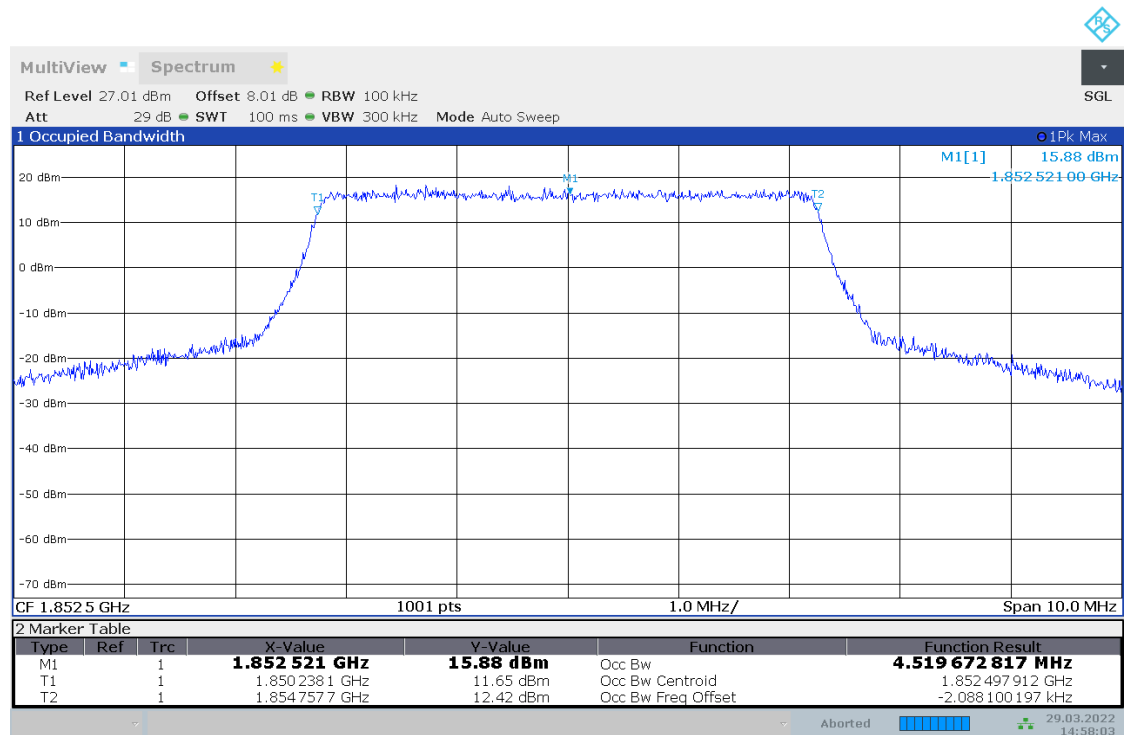


14:56:53 29.03.2022

4.2.7 TM1_5MHZ_LCH_RB25#0

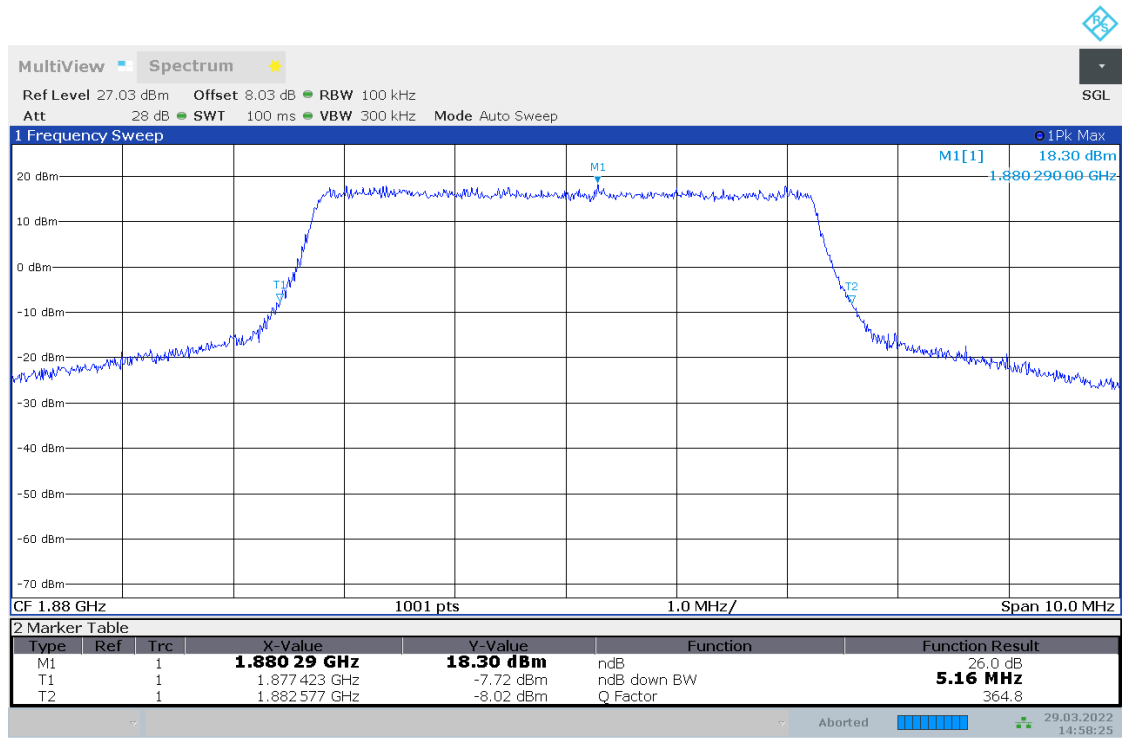


14:57:59 29.03.2022

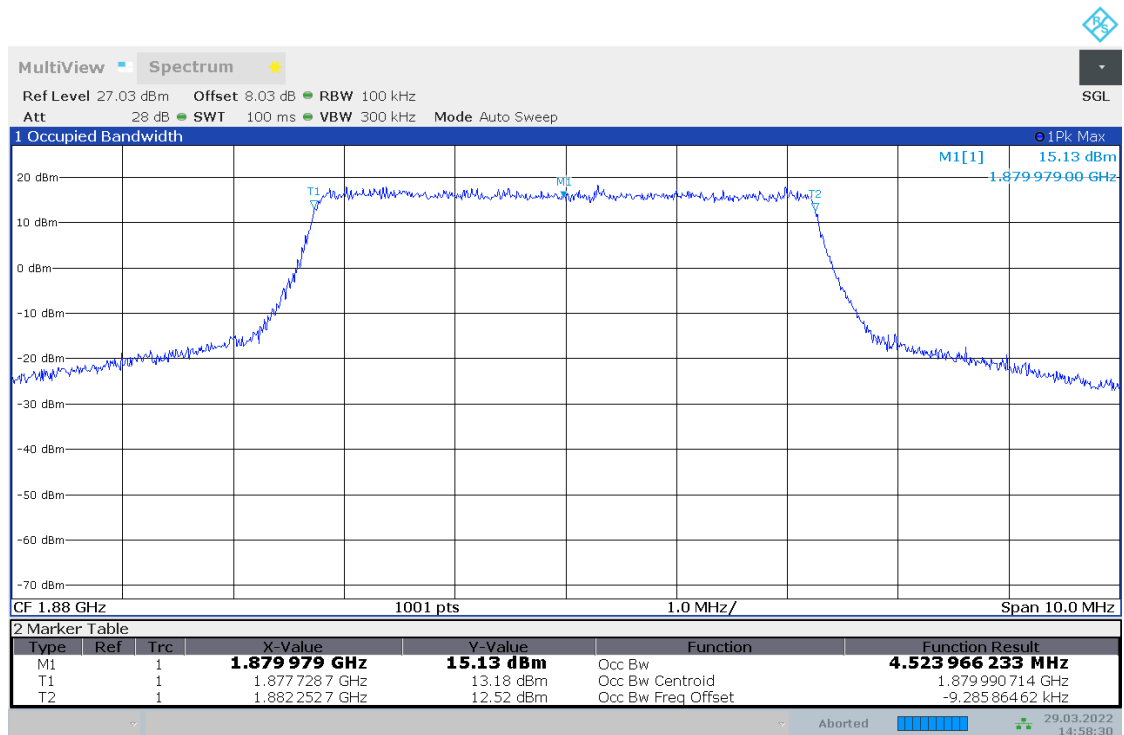


14:58:04 29.03.2022

4.2.8 TM1_5MHZ_MCH_RB25#0

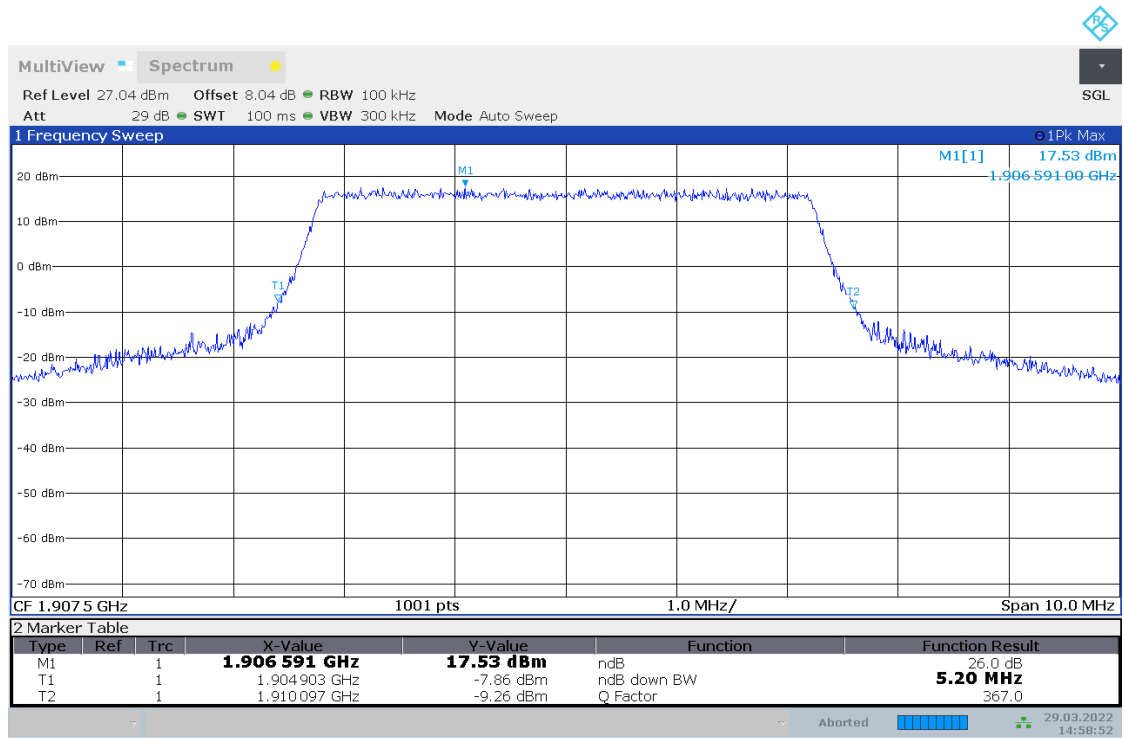


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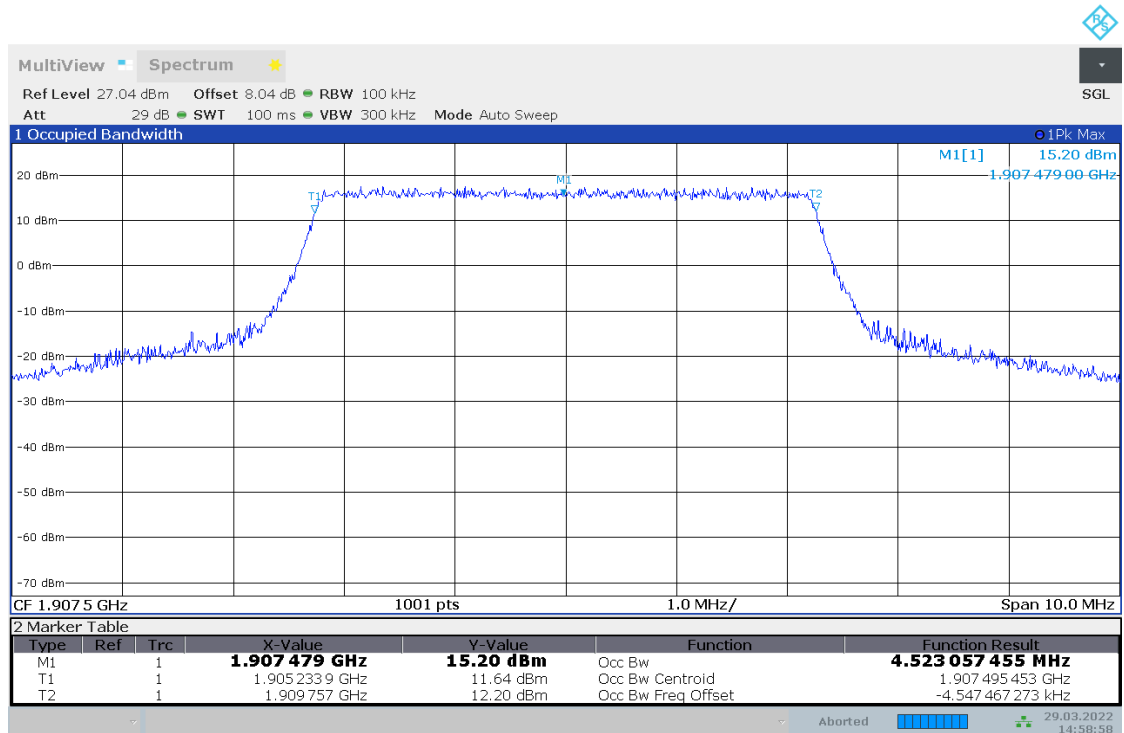


14:58:31 29.03.2022

4.2.9 TM1_5MHZ_HCH_RB25#0

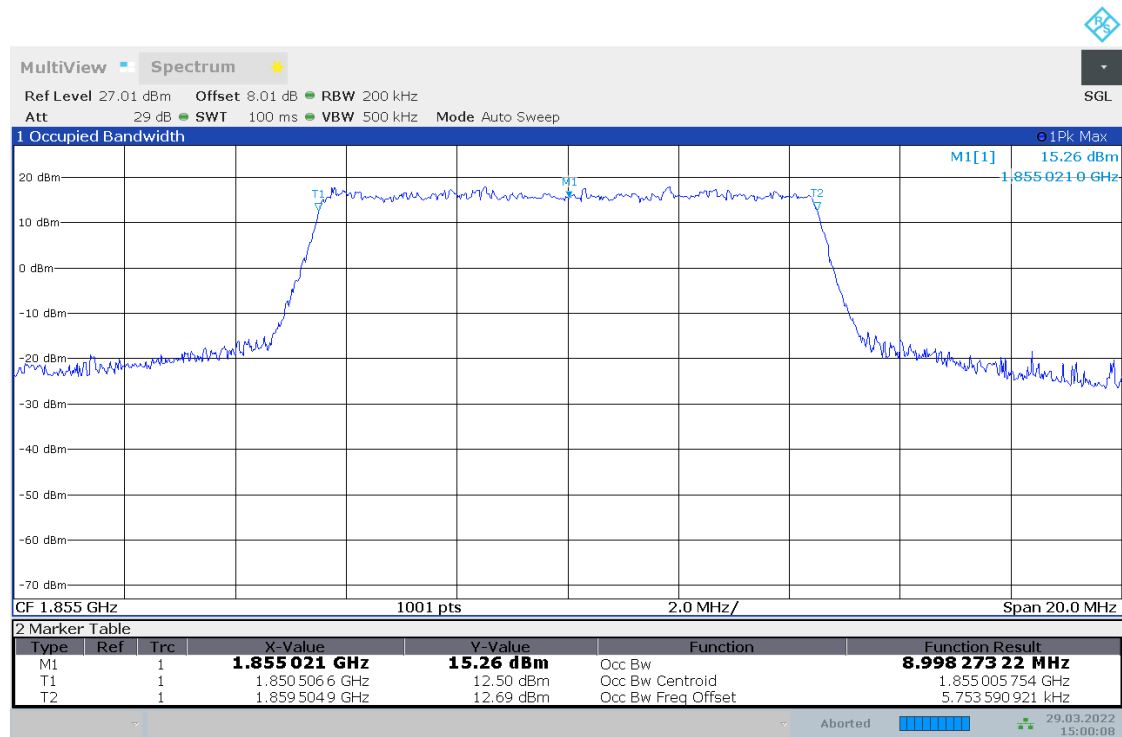
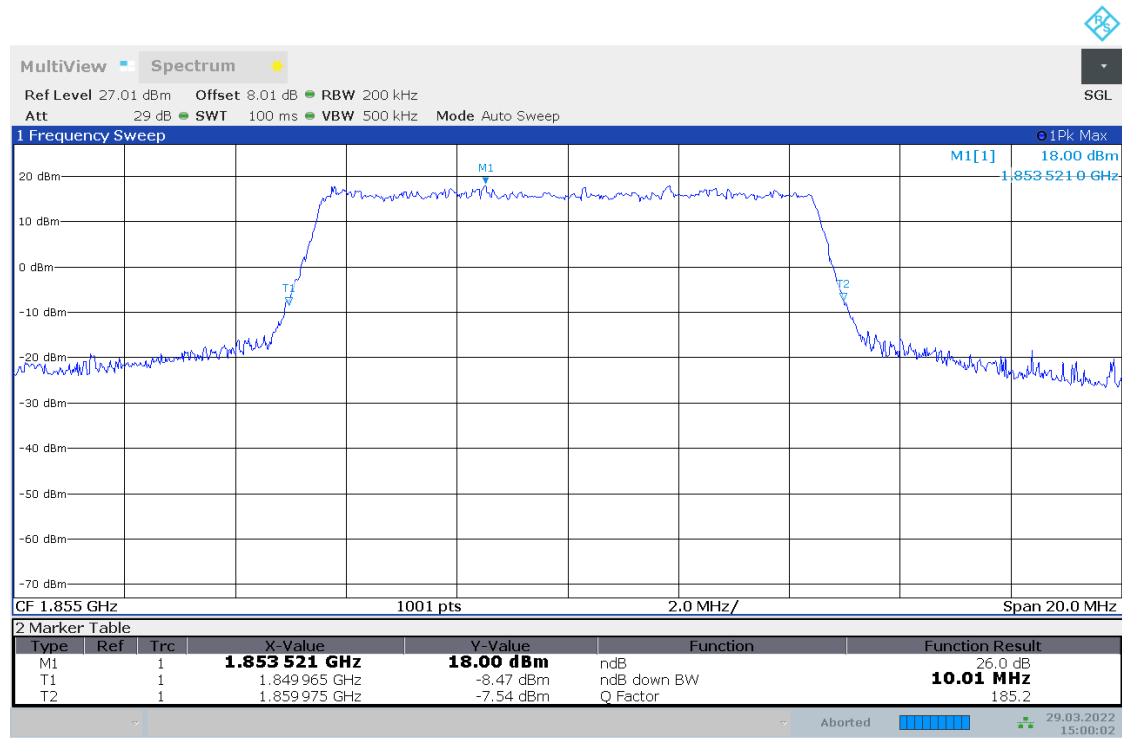


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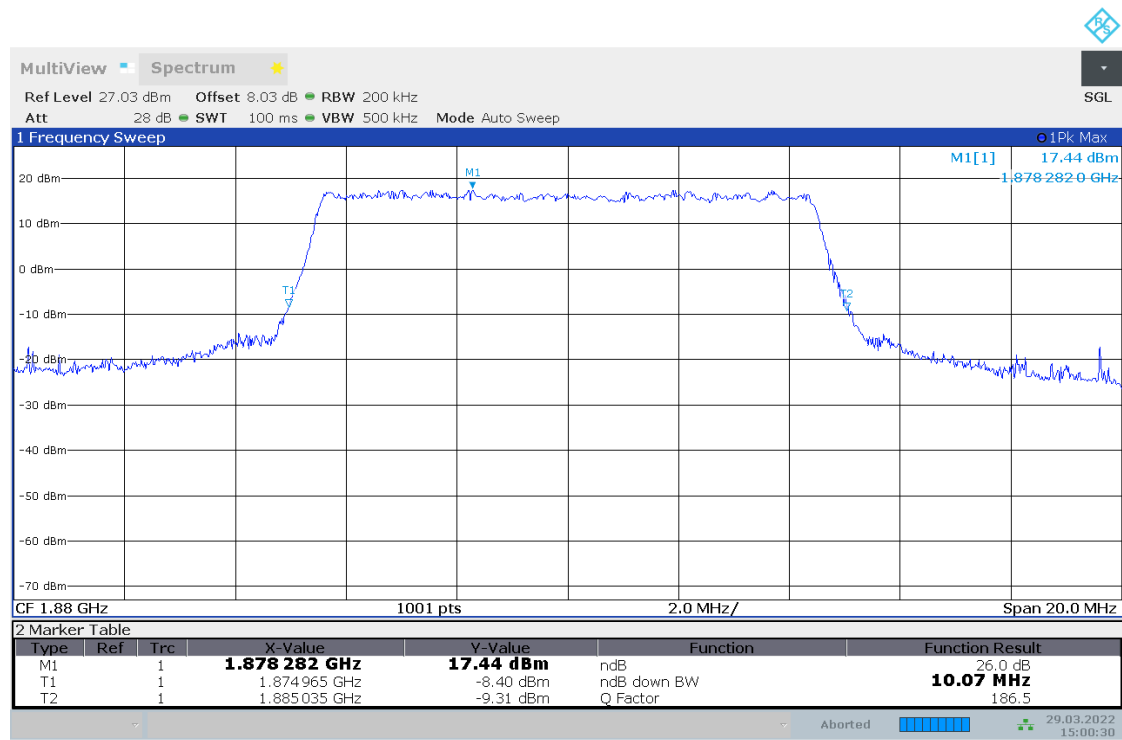


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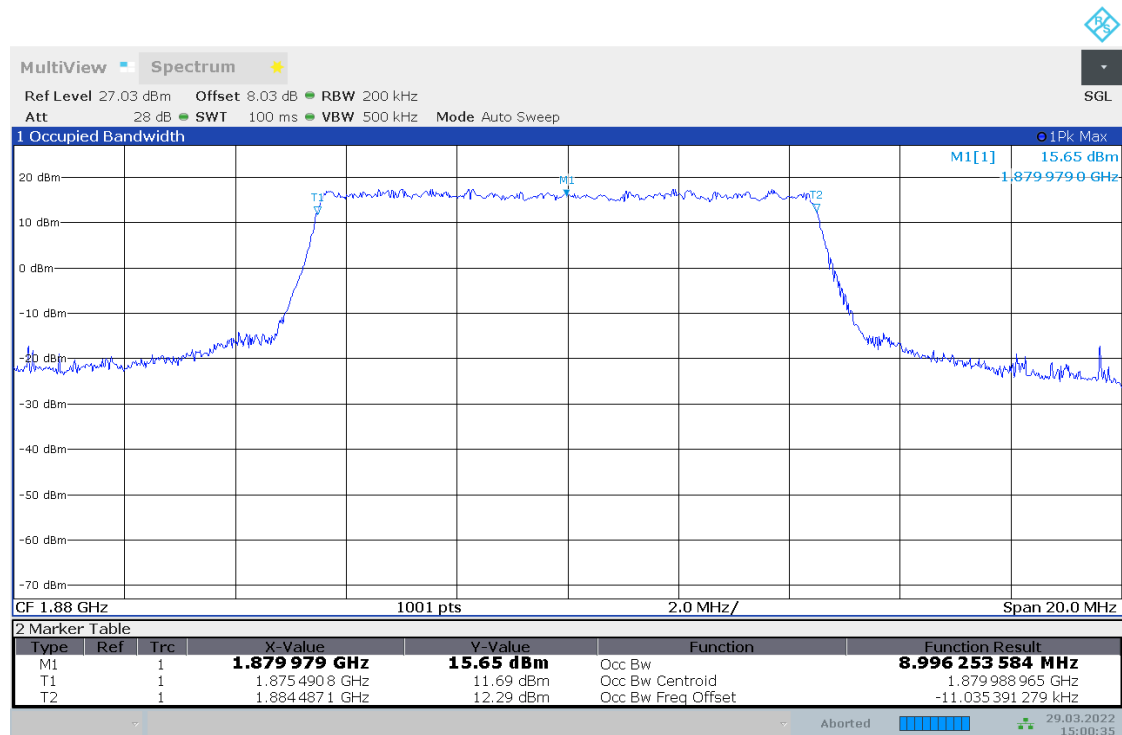
4.2.10 TM1_10MHZ_LCH_RB50#0



4.2.11 TM1_10MHZ_MCH_RB50#0

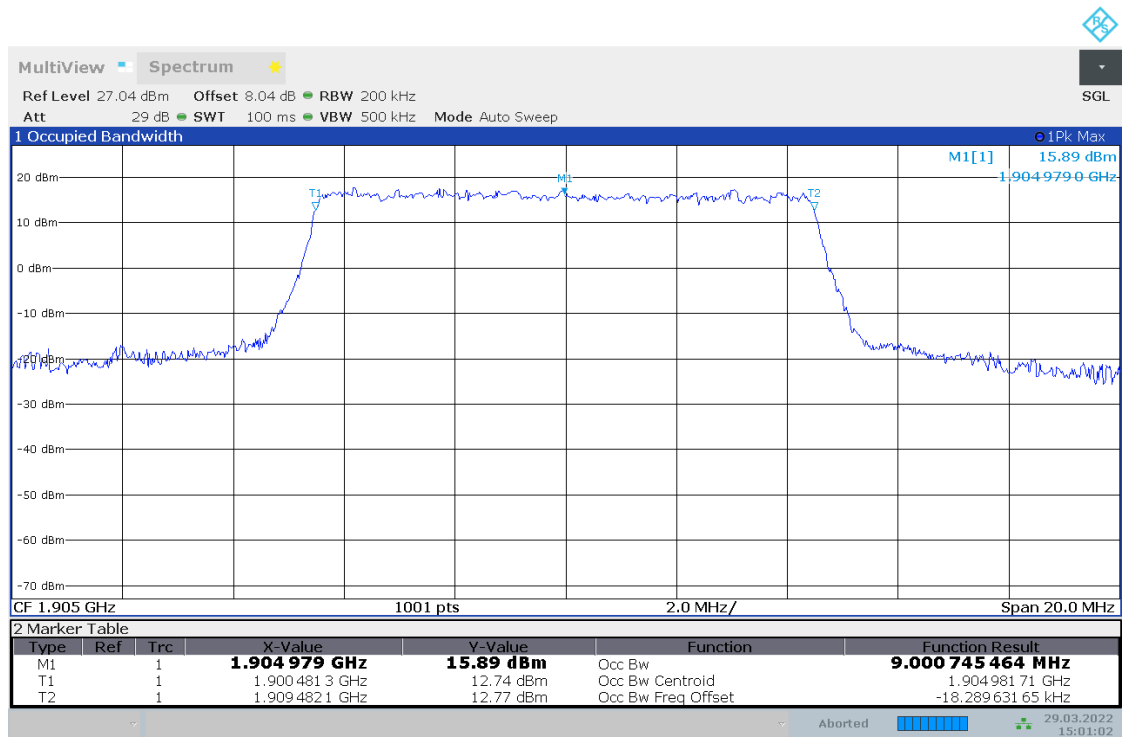
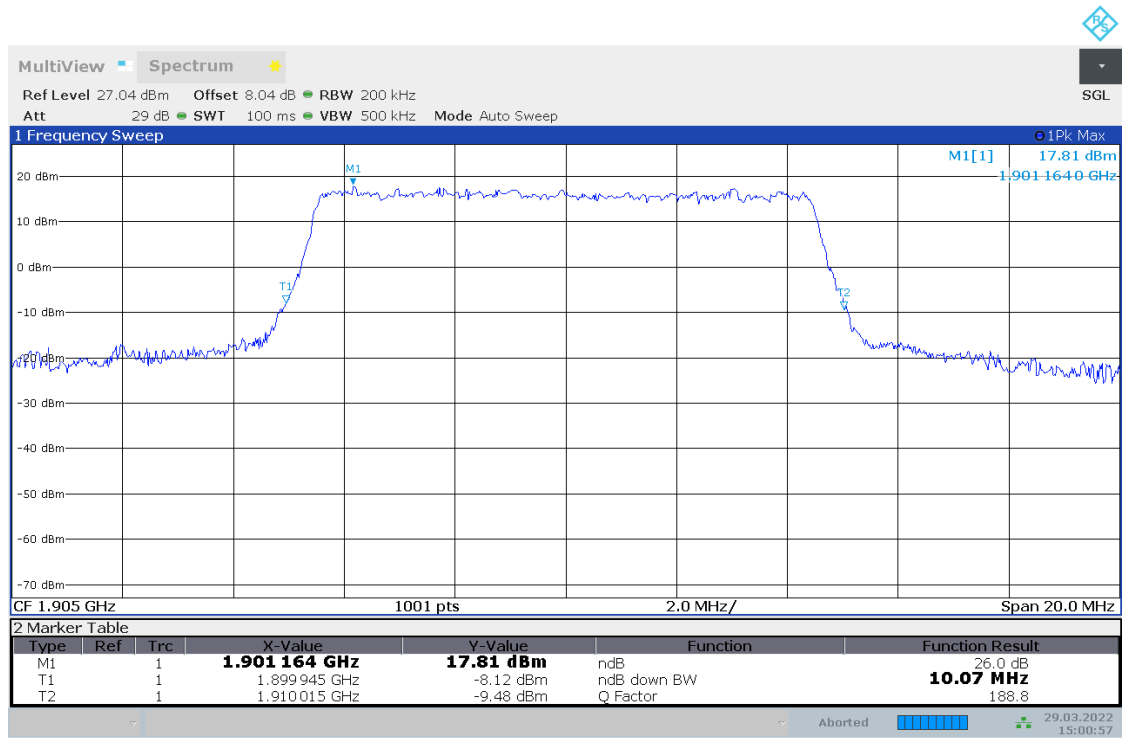


15:00:31 29.03.2022

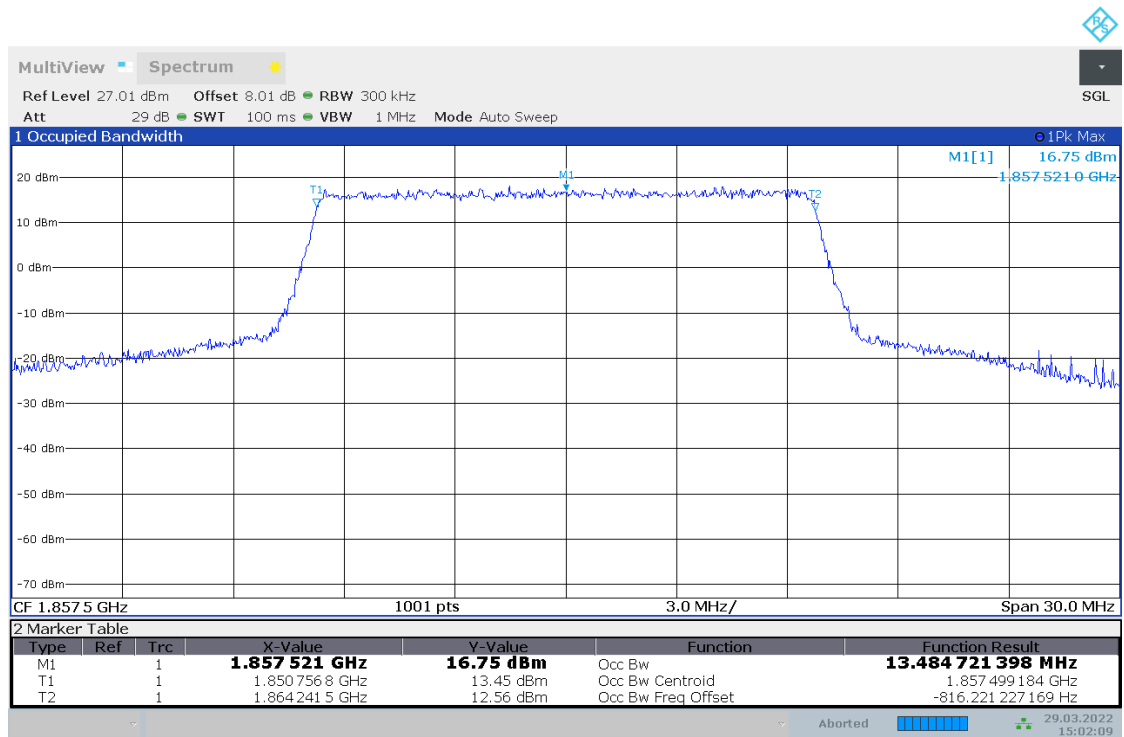
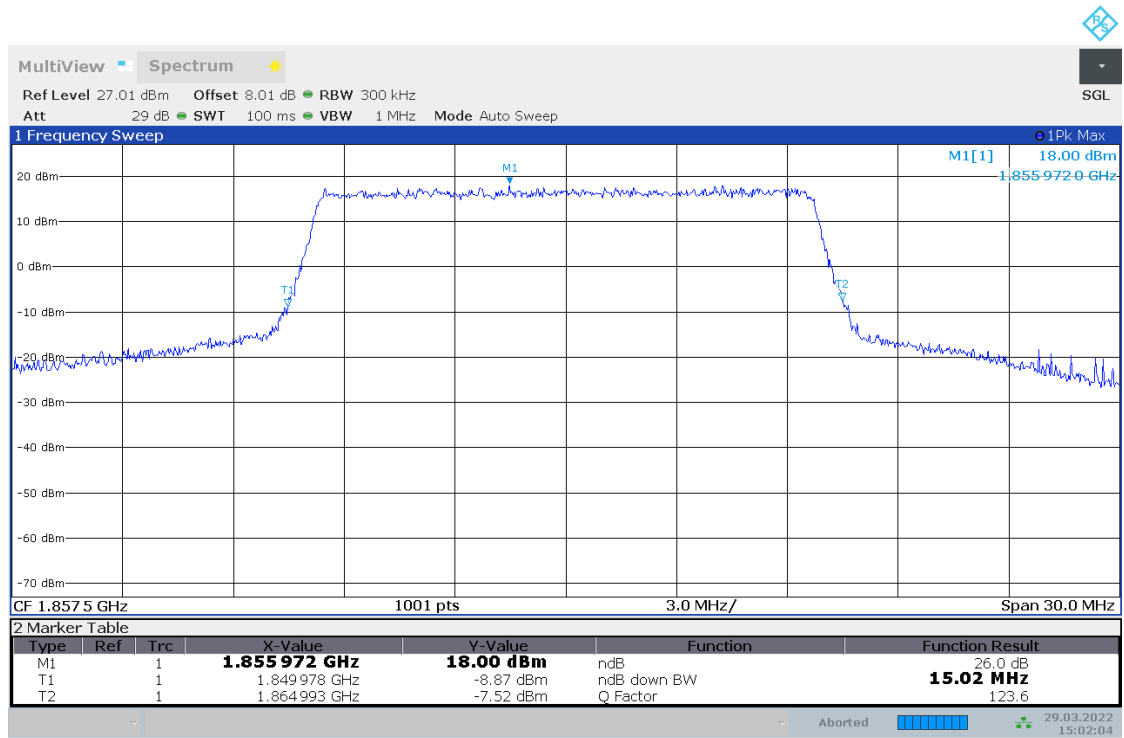


15:00:36 29.03.2022

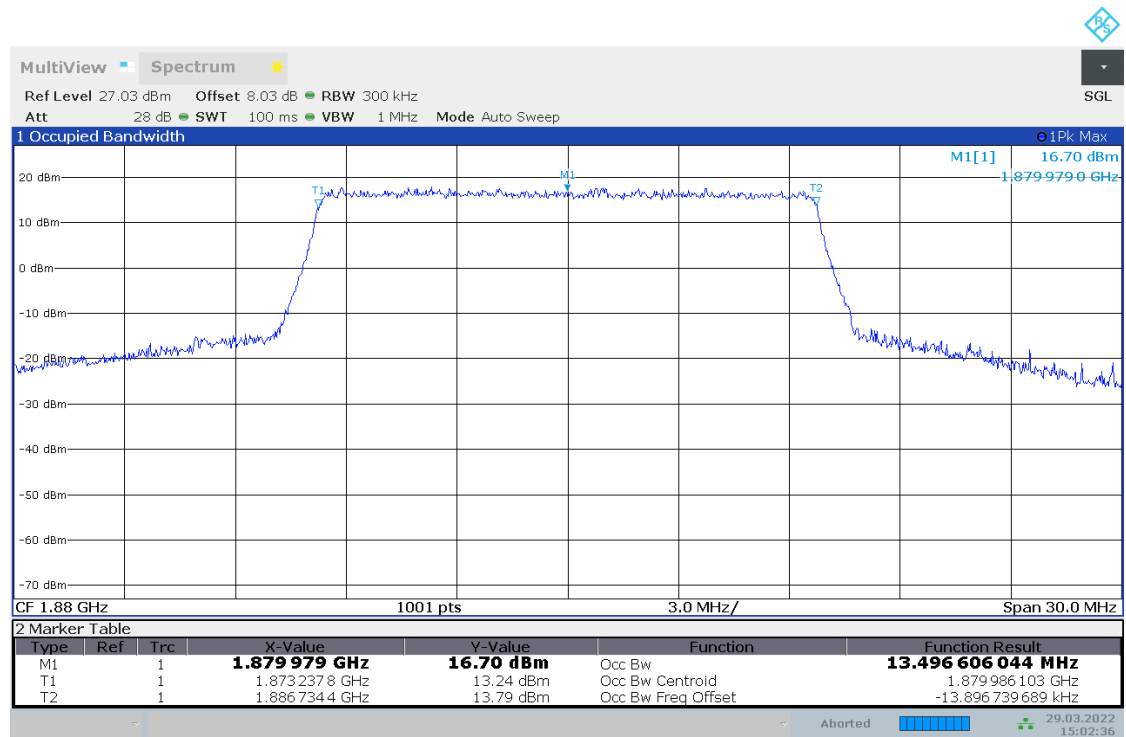
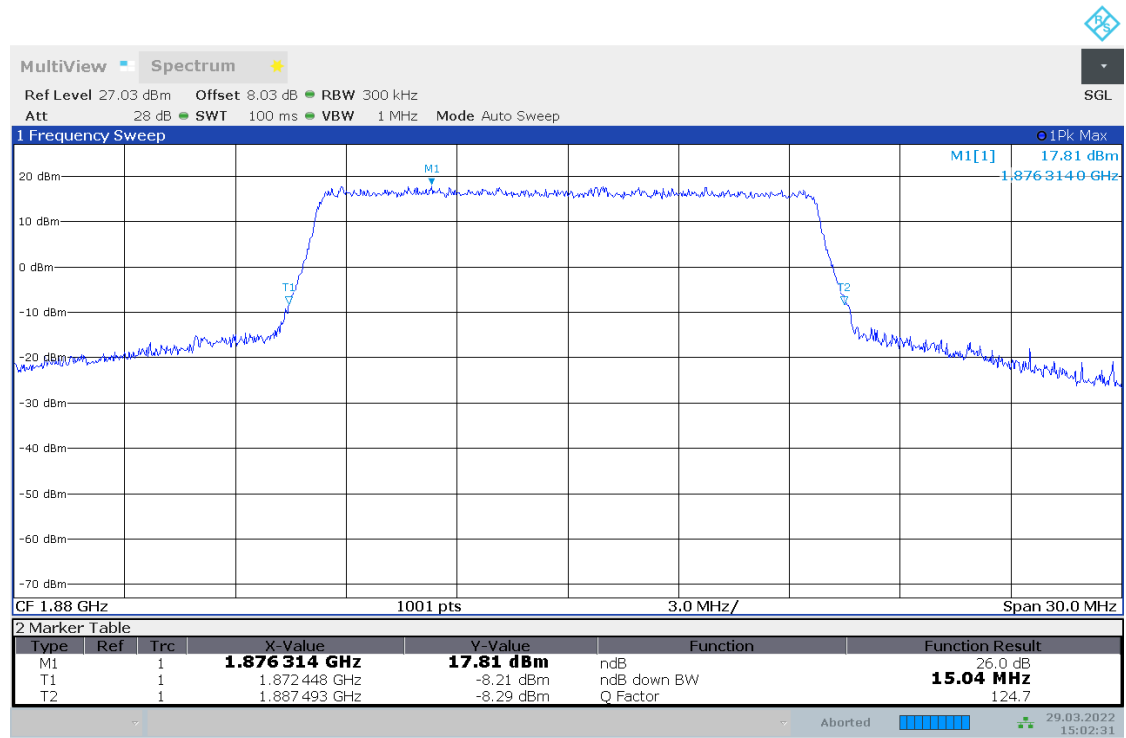
4.2.12 TM1_10MHZ_HCH_RB50#0



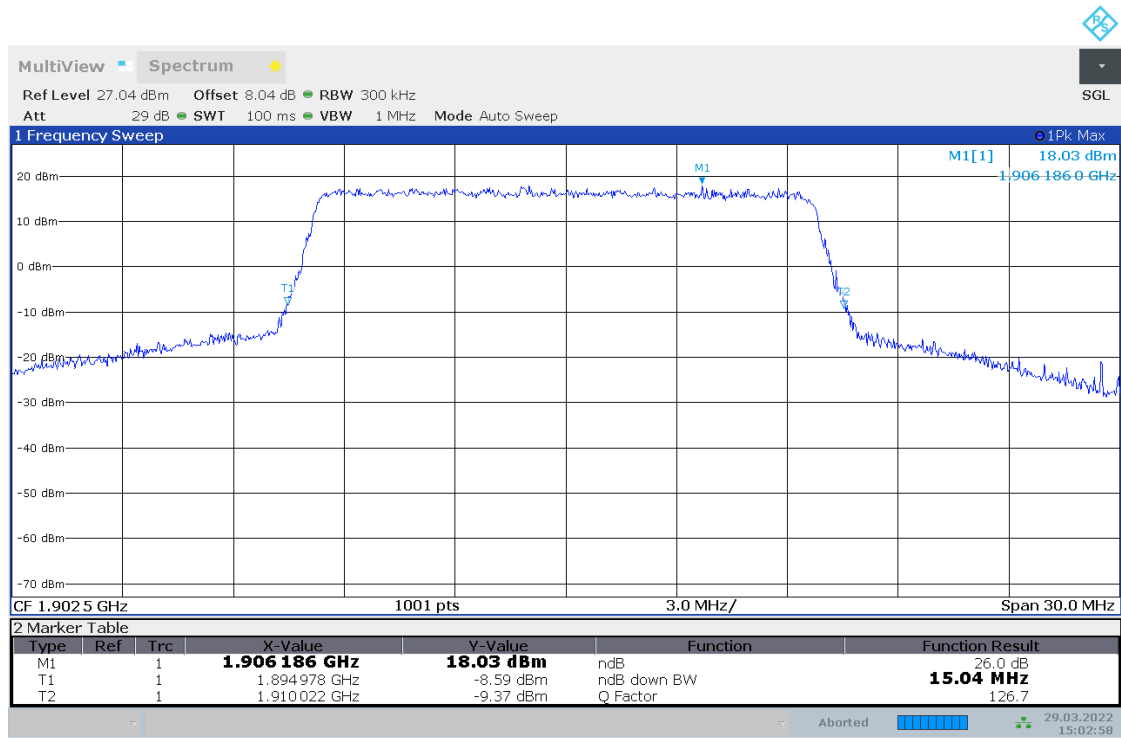
4.2.13 TM1_15MHZ_LCH_RB75#0



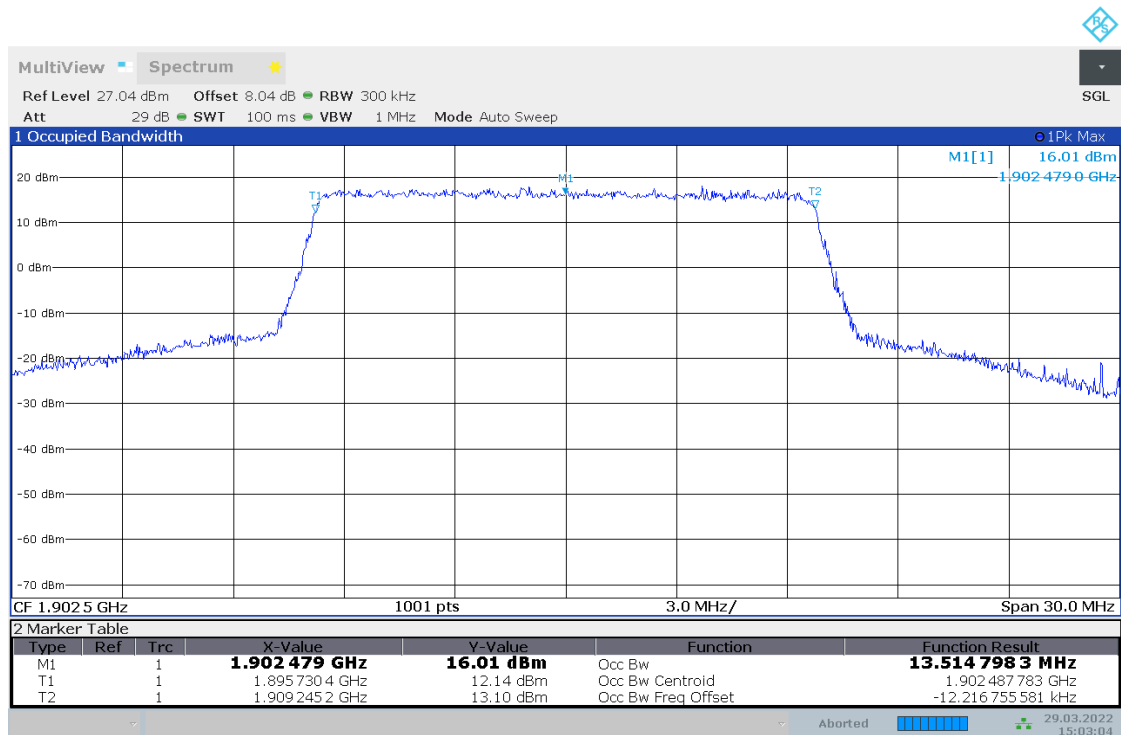
4.2.14 TM1_15MHZ_MCH_RB75#0



4.2.15 TM1_15MHZ_HCH_RB75#0

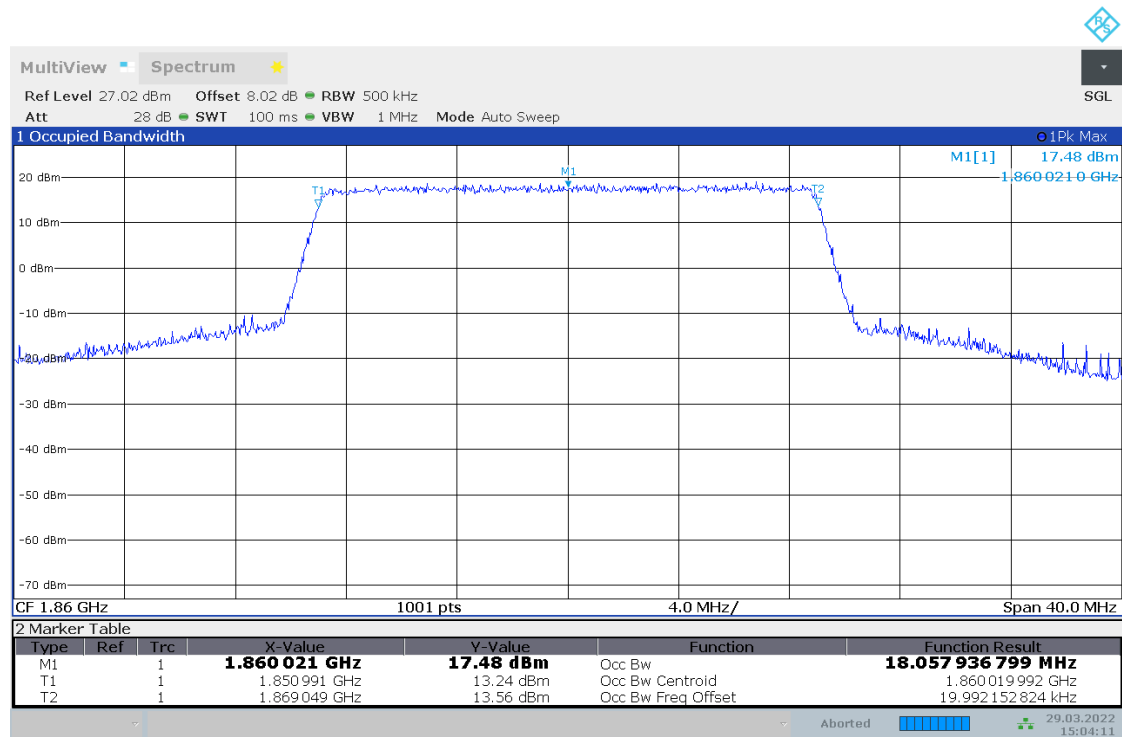
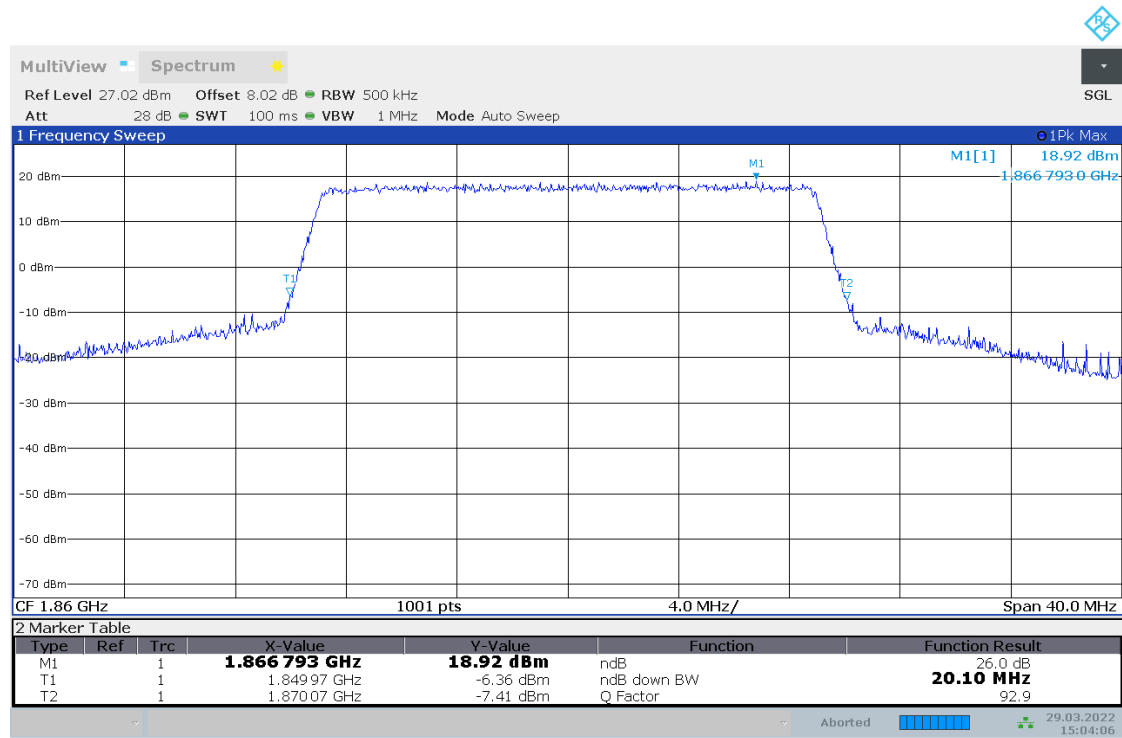


15:02:59 29.03.2022

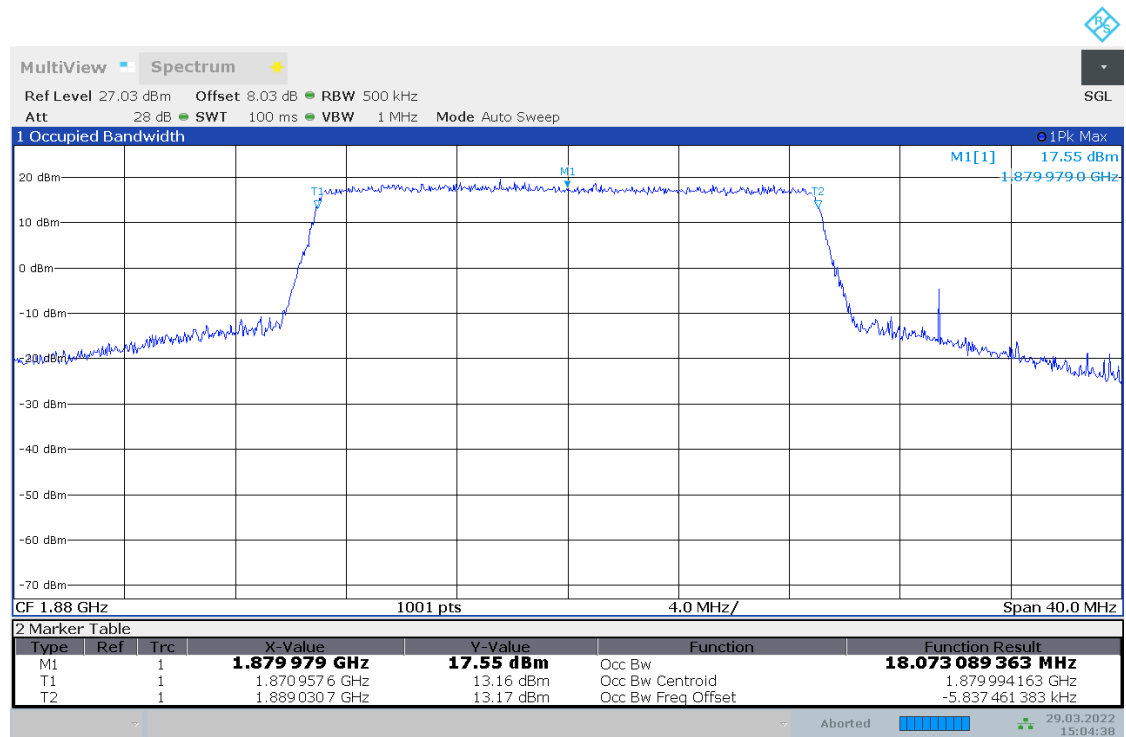
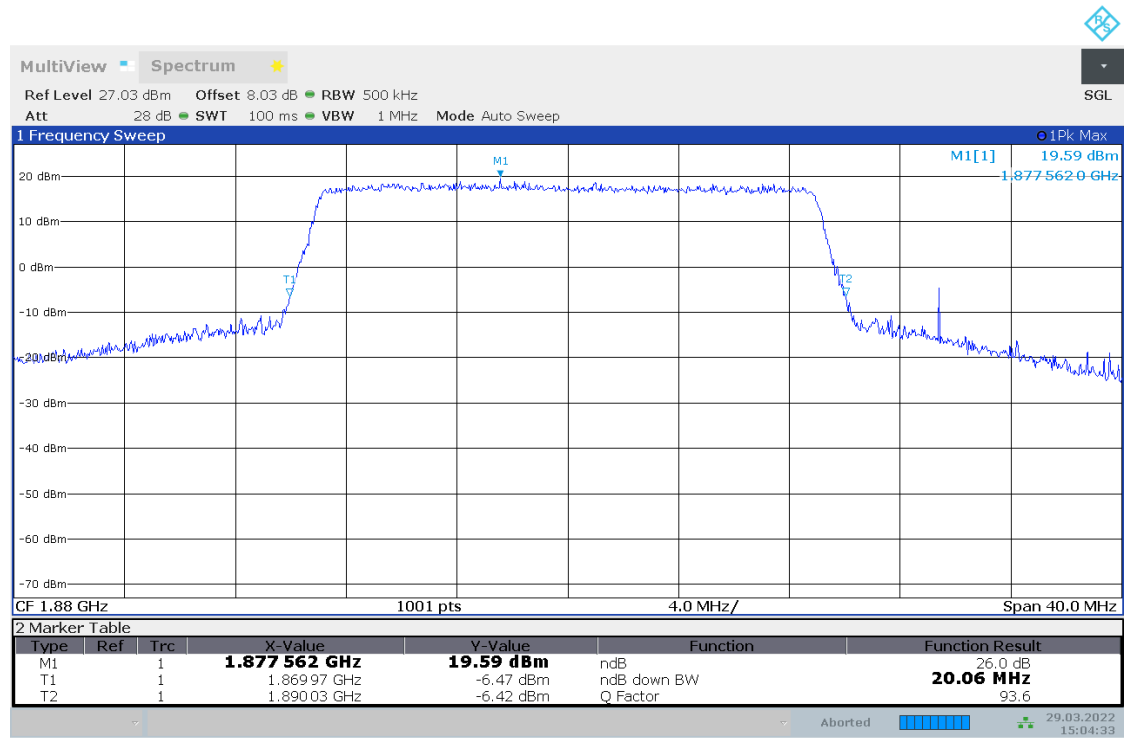


15:03:05 29.03.2022

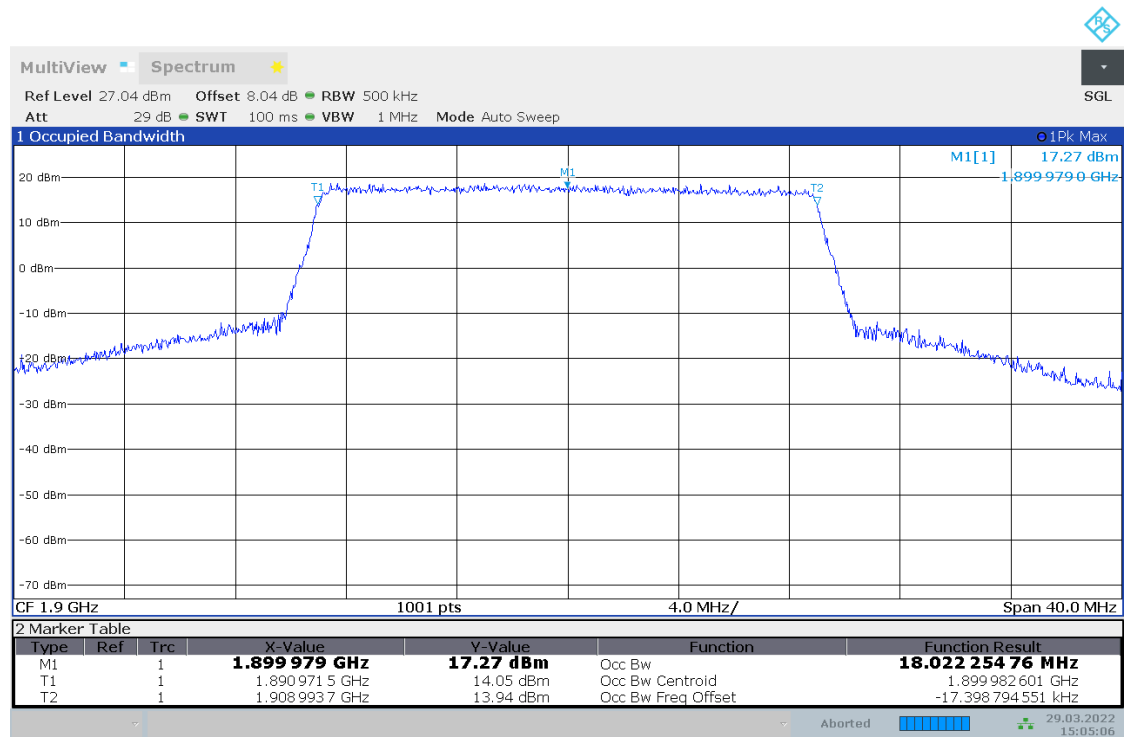
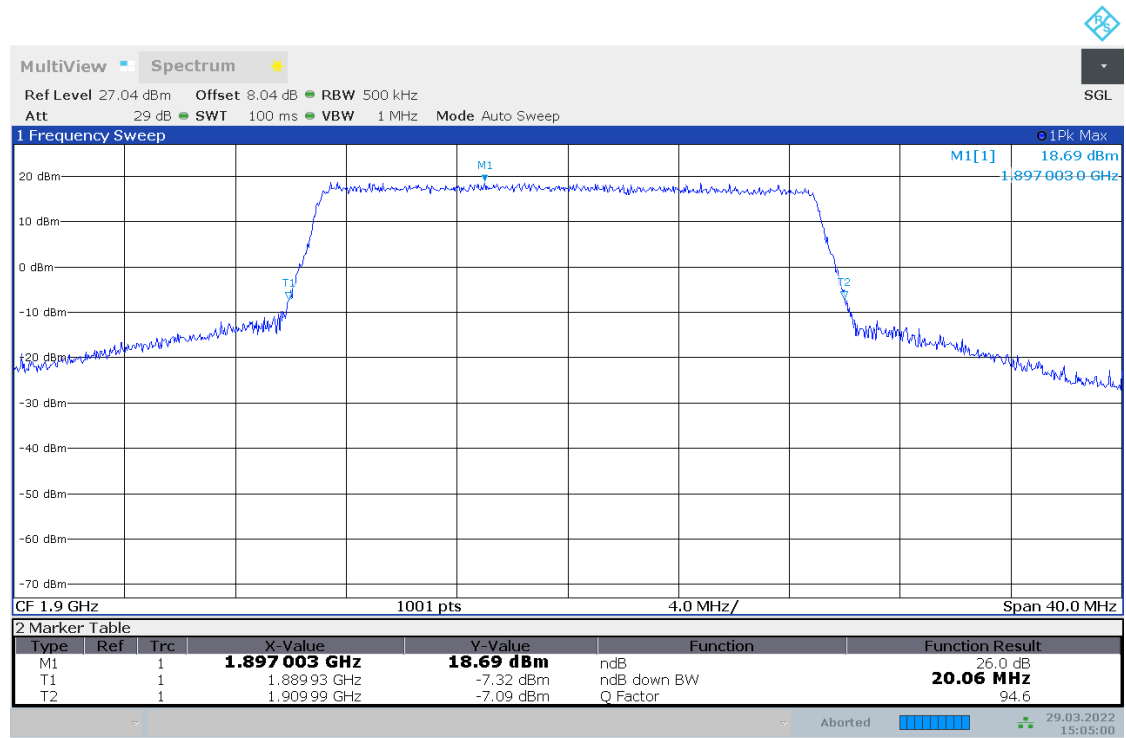
4.2.16 TM1_20MHZ_LCH_RB100#0



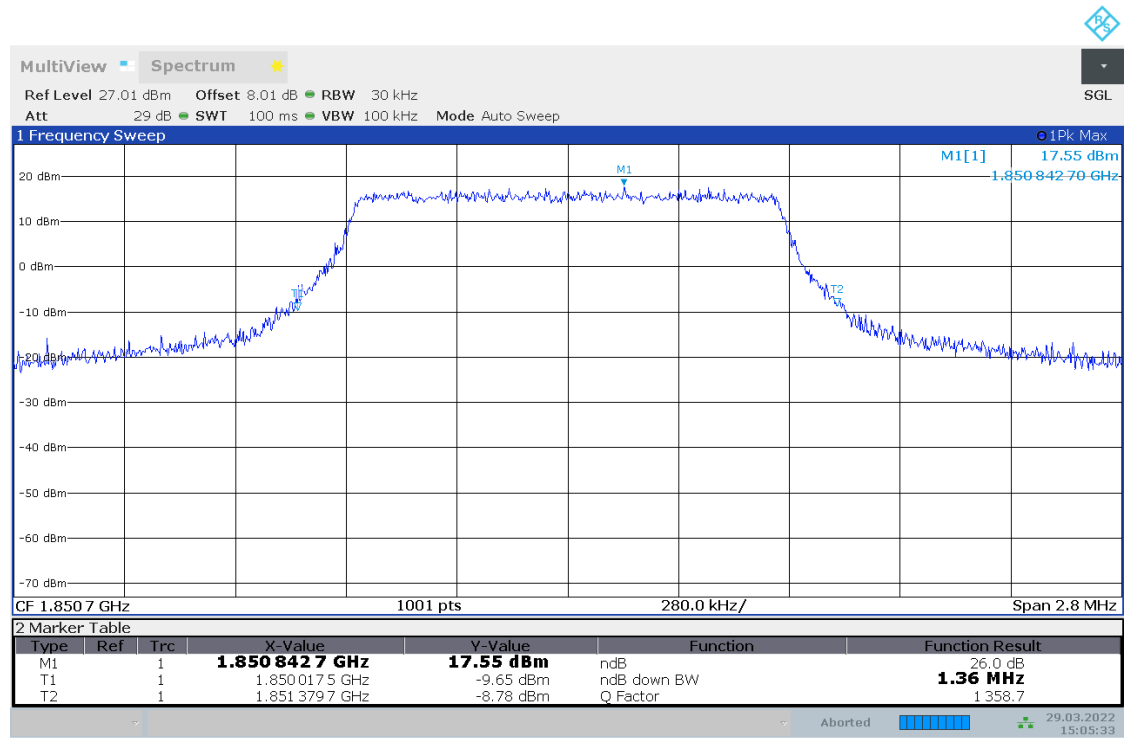
4.2.17 TM1_20MHZ_MCH_RB100#0



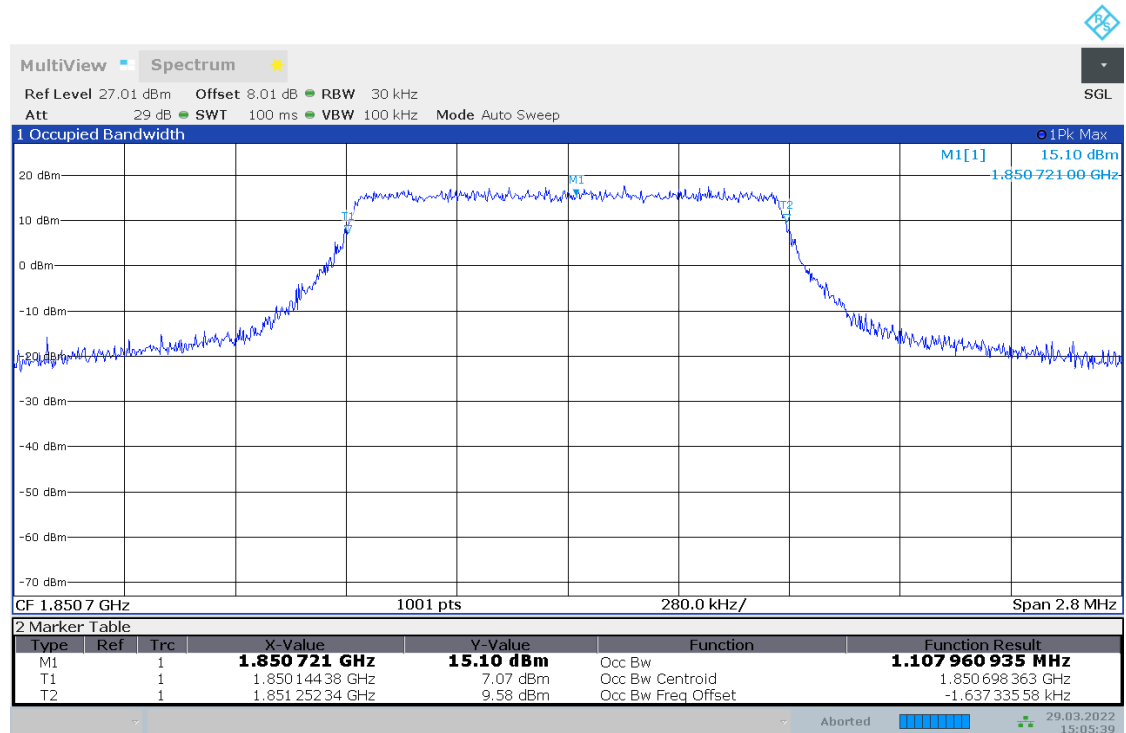
4.2.18 TM1_20MHZ_HCH_RB100#0



4.2.19 TM2_1.4MHZ_LCH_RB6#0

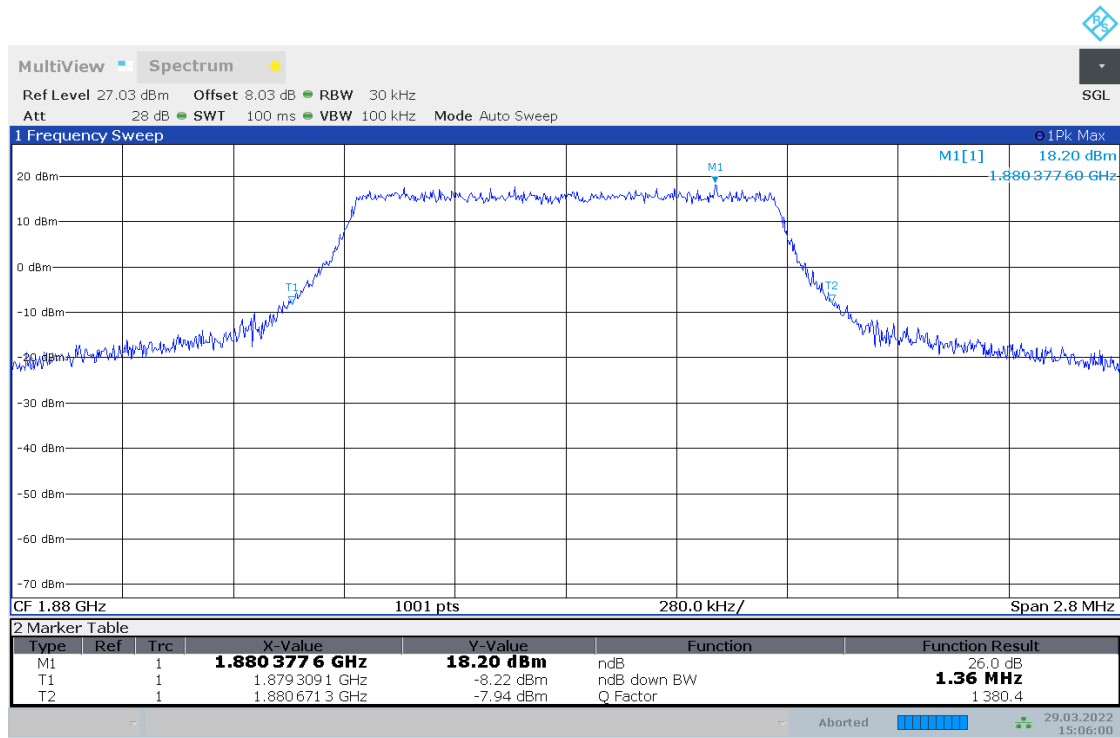


15:05:33 29.03.2022

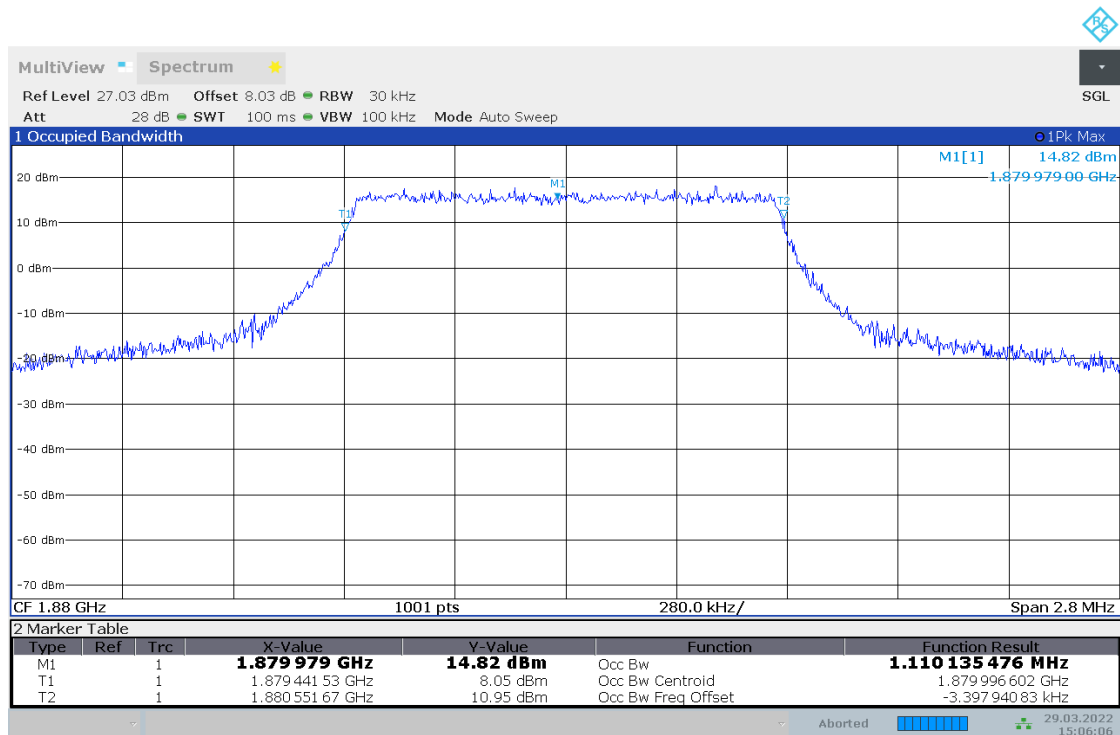


15:05:39 29.03.2022

4.2.20 TM2_1.4MHZ_MCH_RB6#0

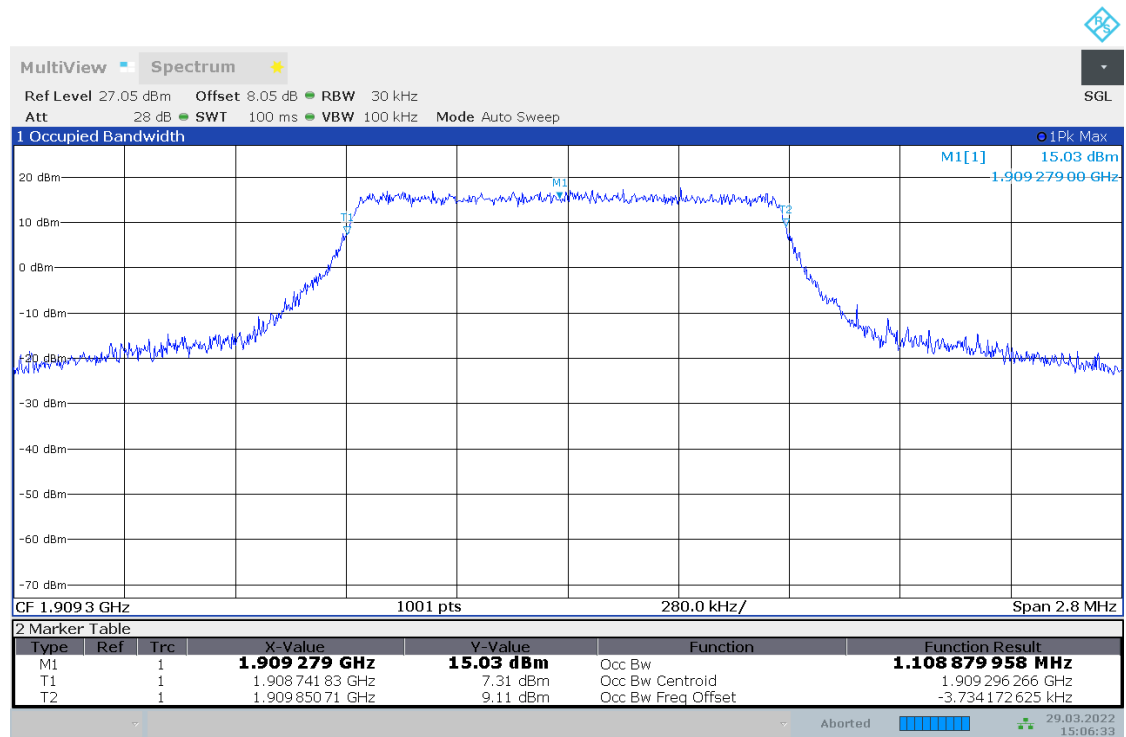
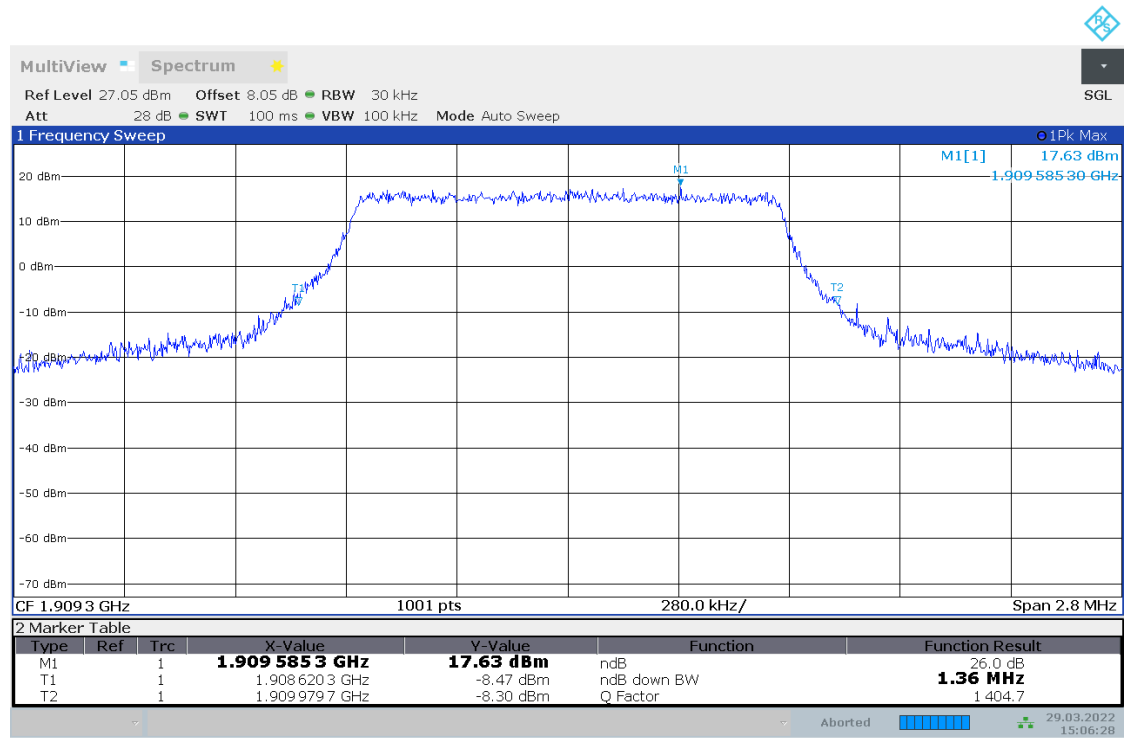


15:06:01 29.03.2022

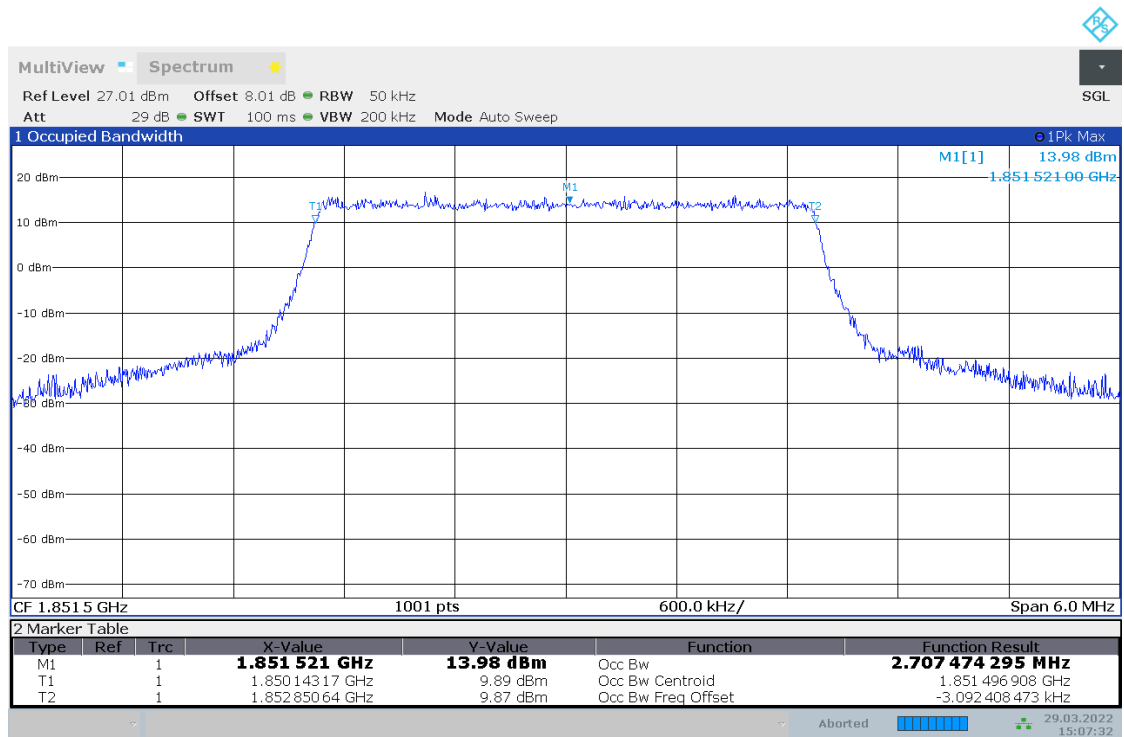
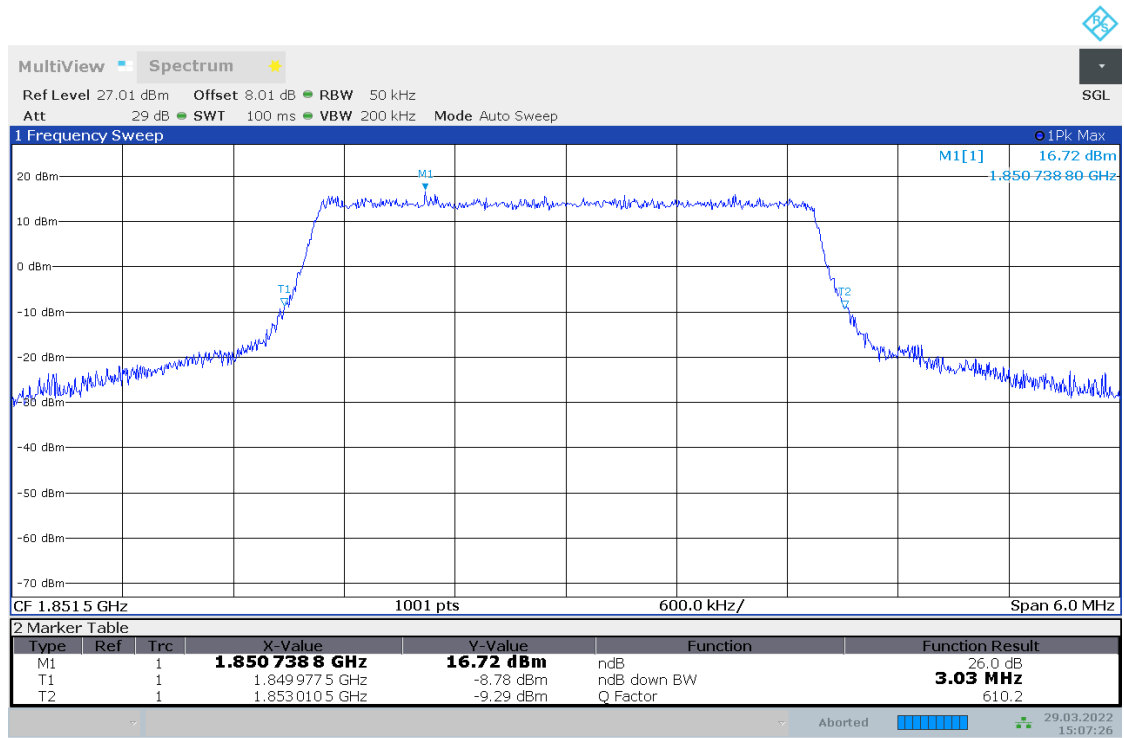


15:06:06 29.03.2022

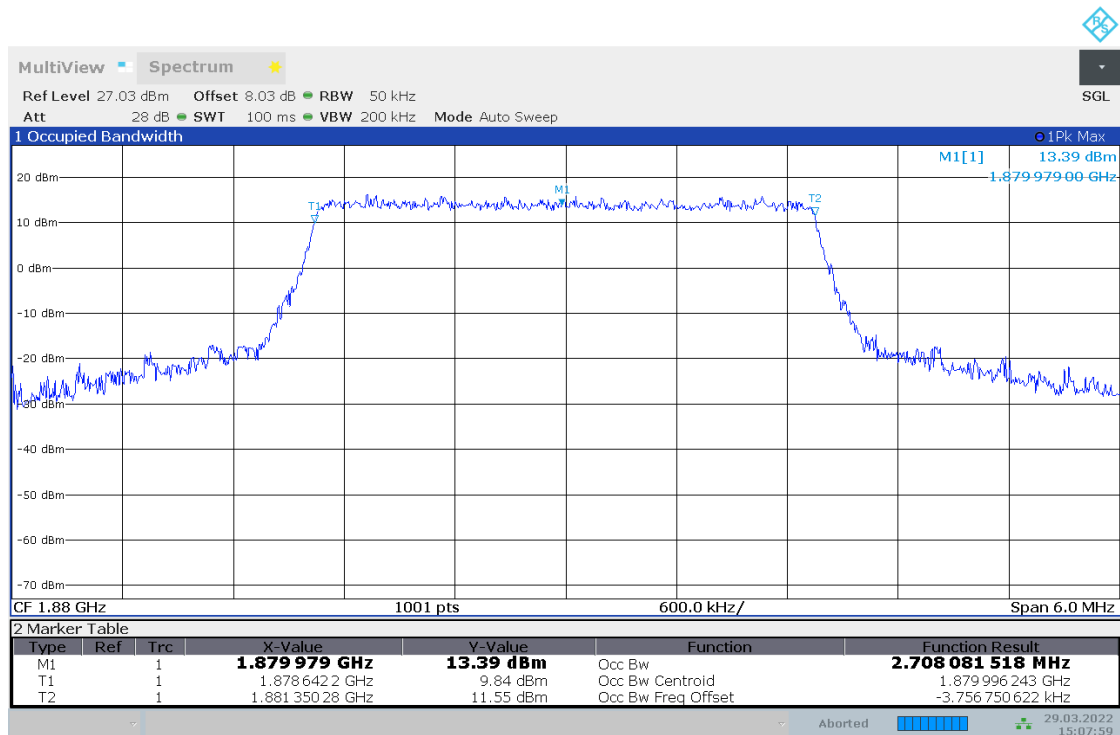
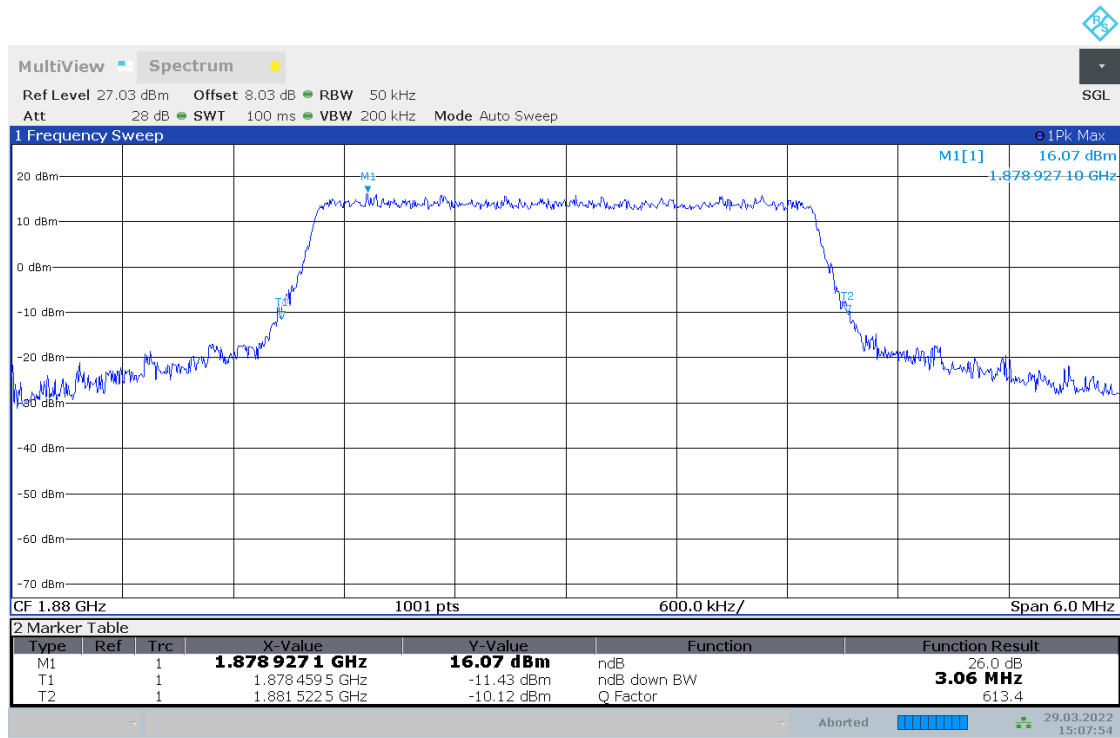
4.2.21 TM2_1.4MHZ_HCH_RB6#0



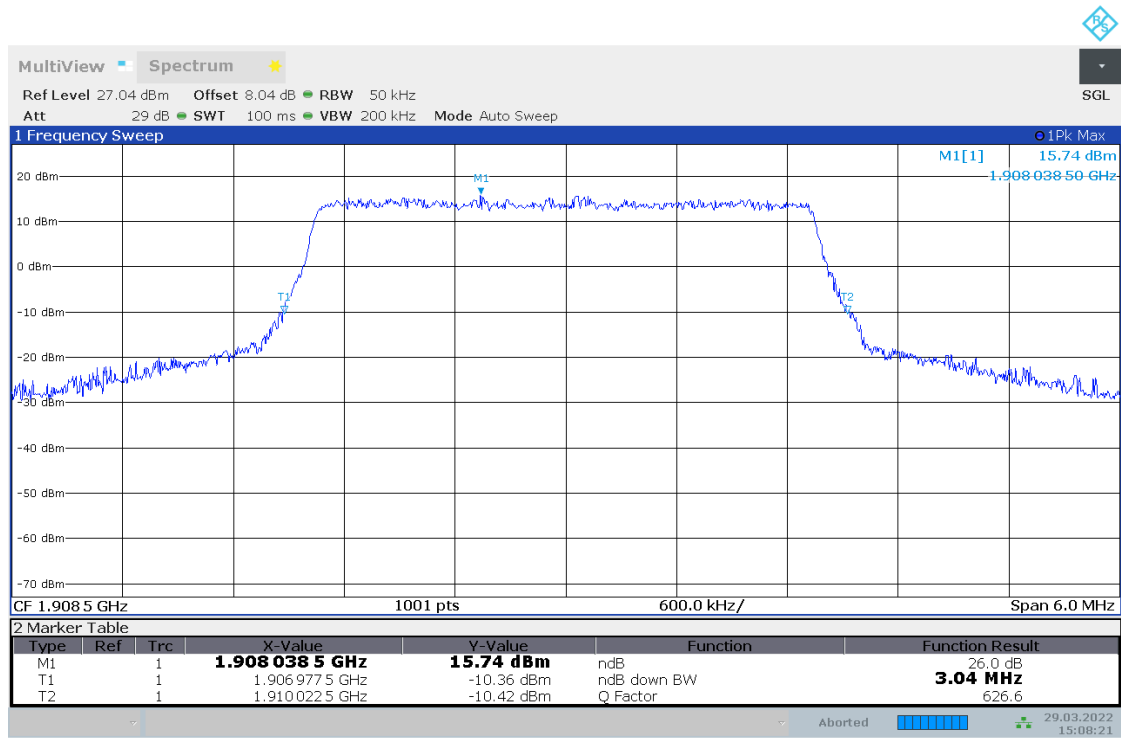
4.2.22 TM2_3MHZ_LCH_RB15#0



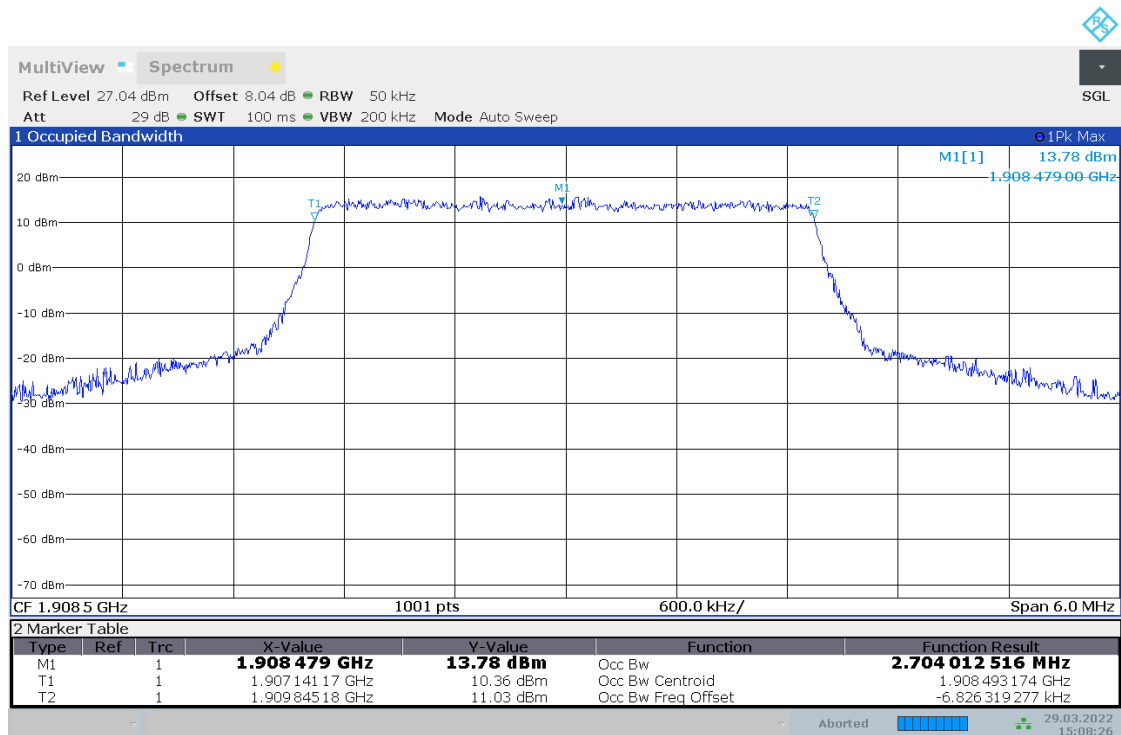
4.2.23 TM2_3MHZ_MCH_RB15#0



4.2.24 TM2_3MHZ_HCH_RB15#0

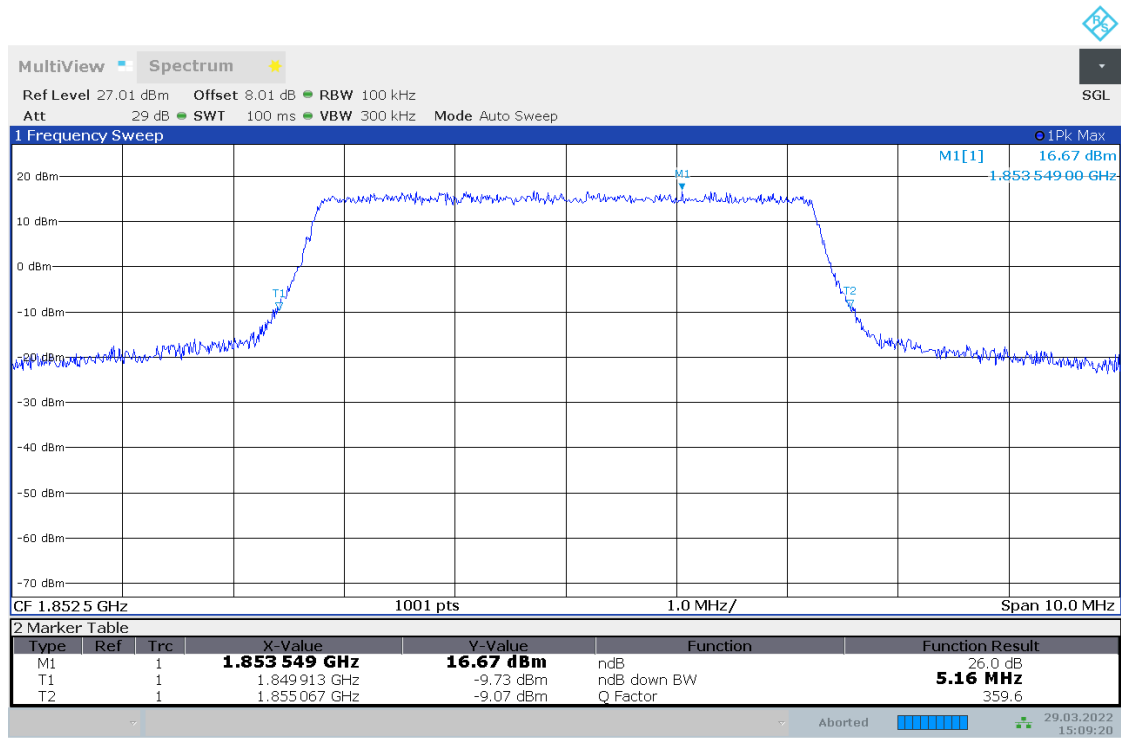


15:08:21 29.03.2022

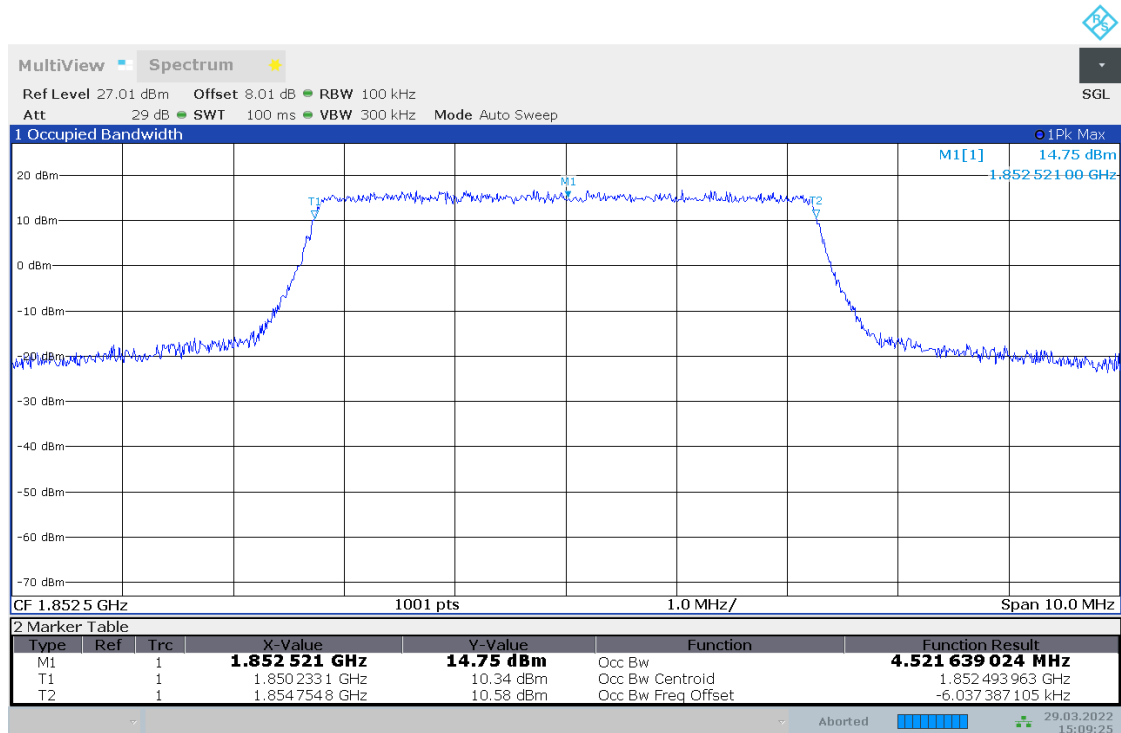


15:08:27 29.03.2022

4.2.25 TM2_5MHZ_LCH_RB25#0

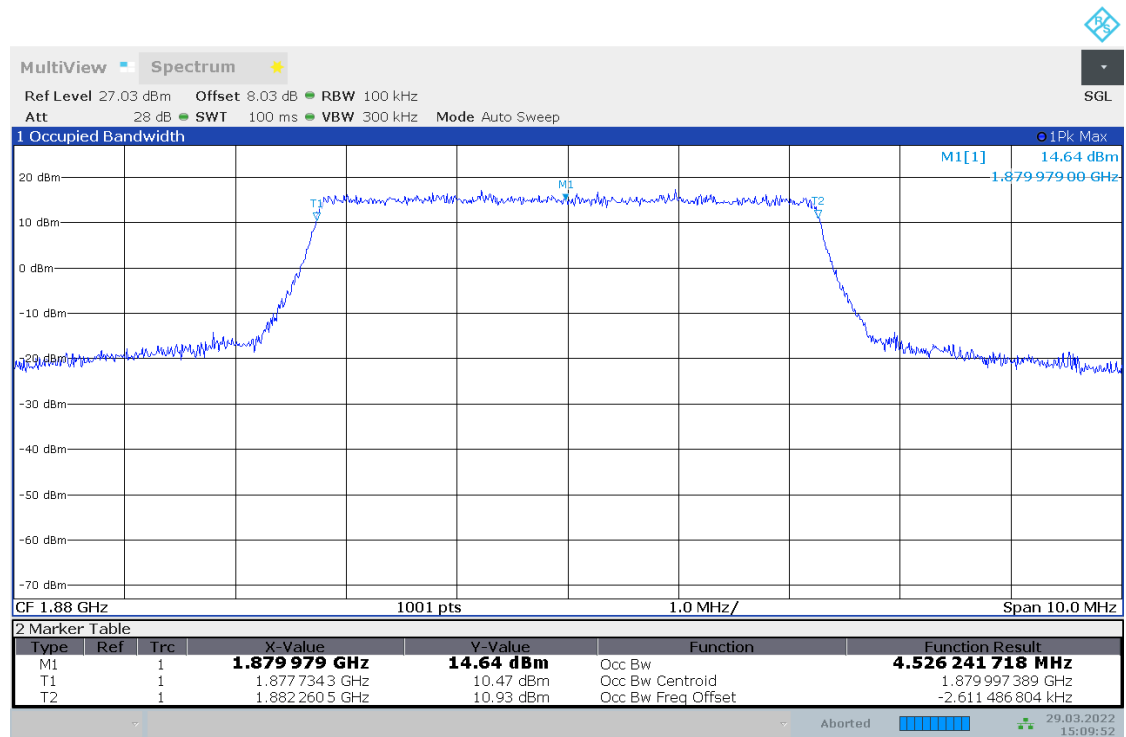
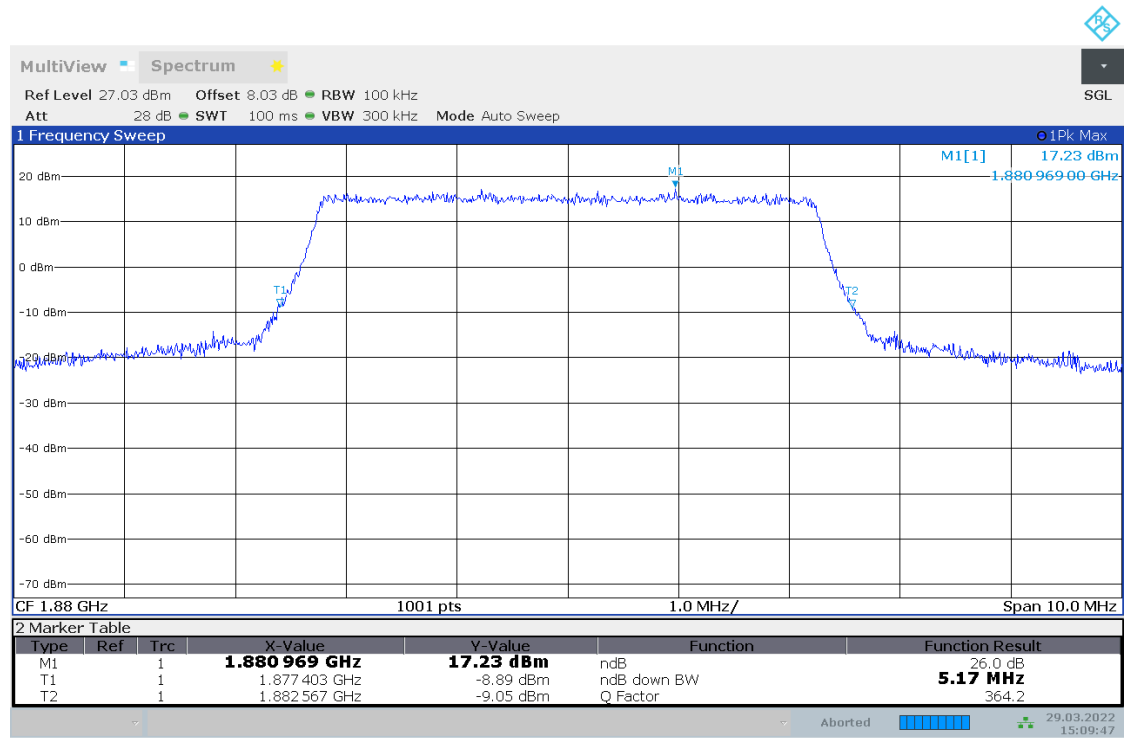


15:09:20 29.03.2022

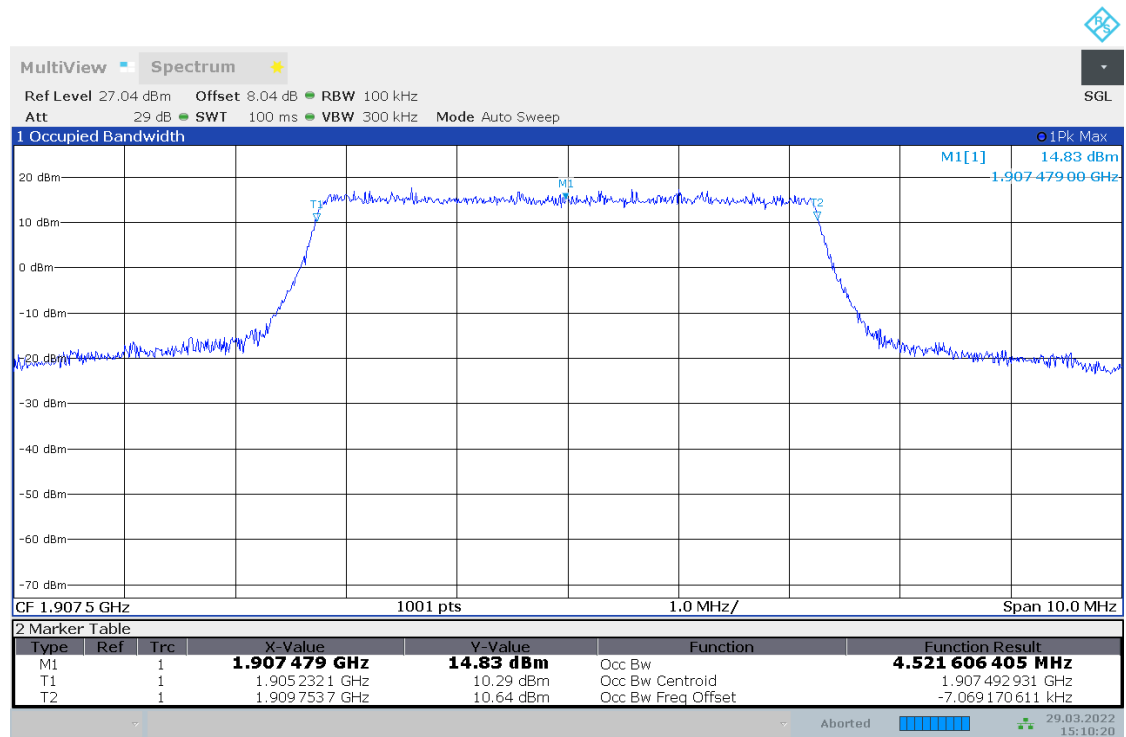
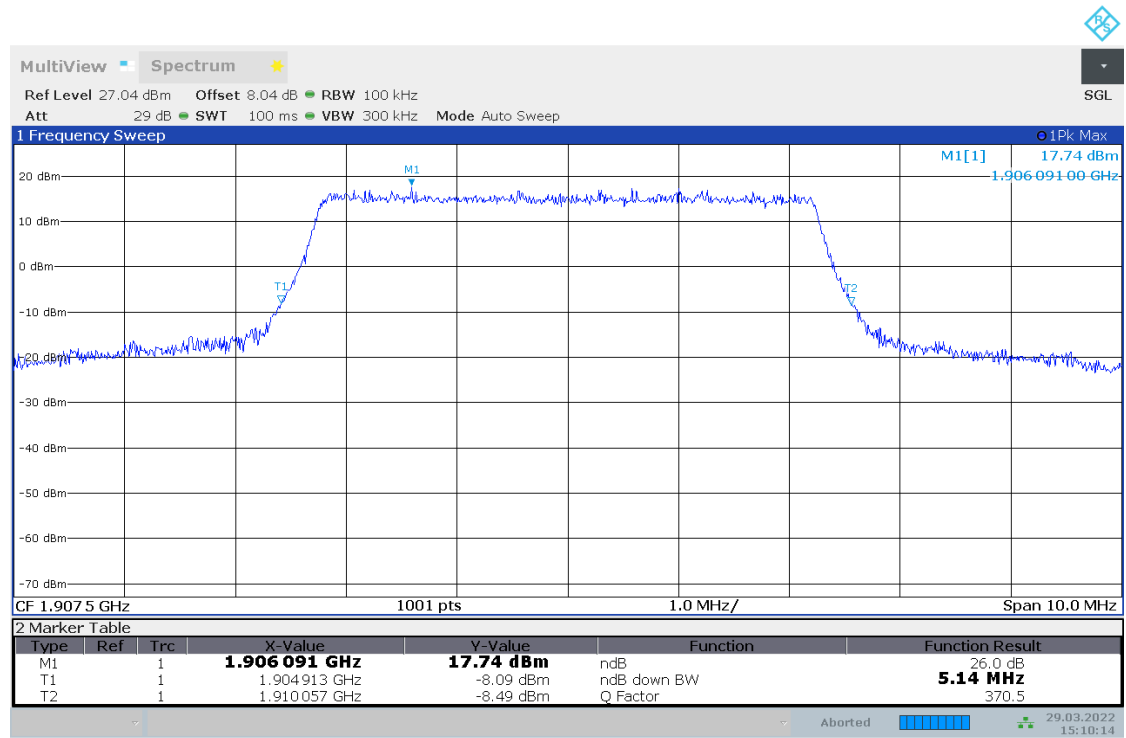


15:09:26 29.03.2022

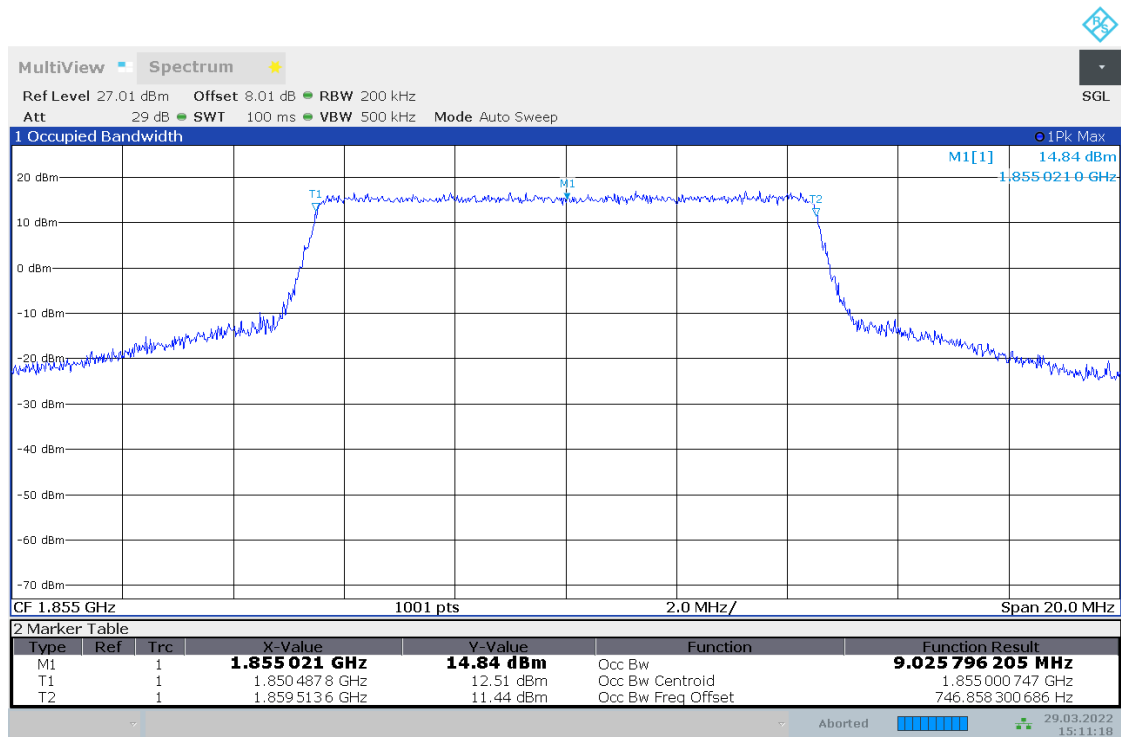
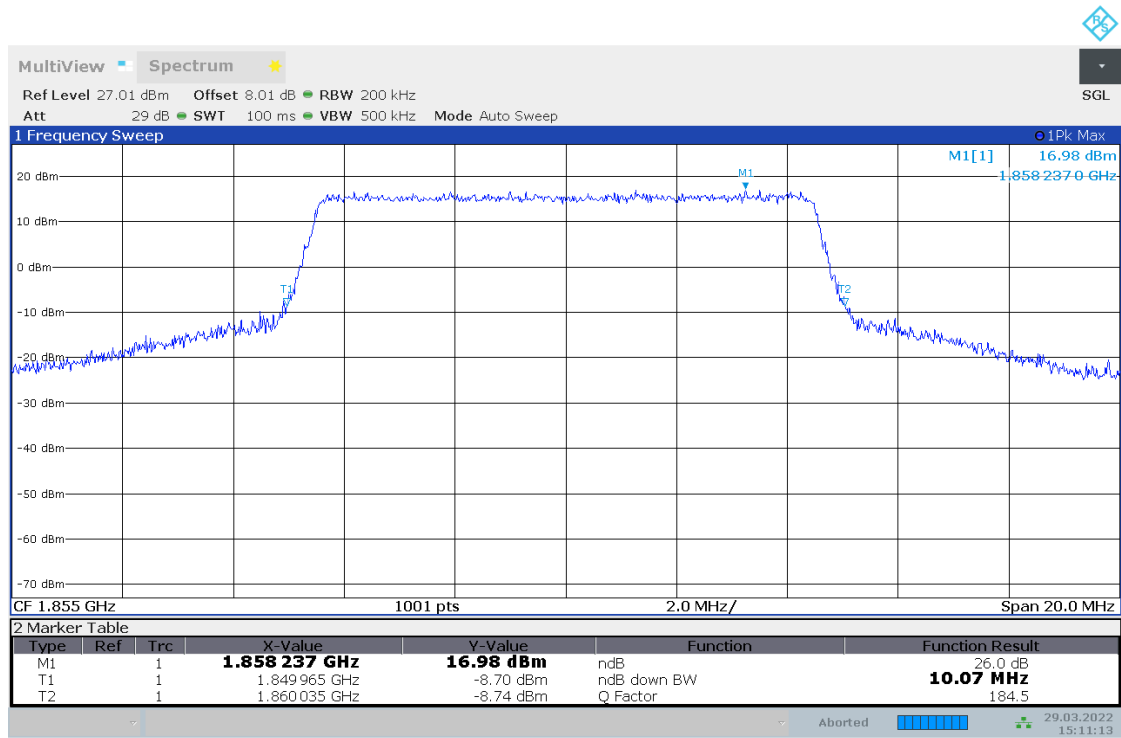
4.2.26 TM2_5MHZ_MCH_RB25#0



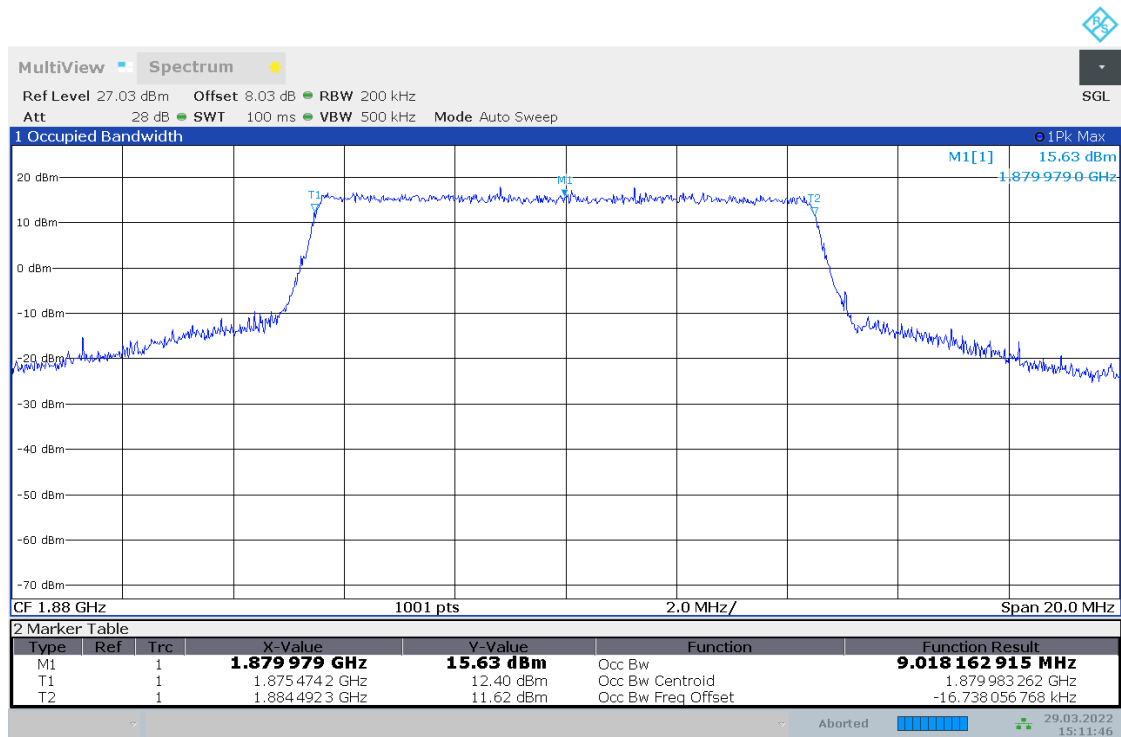
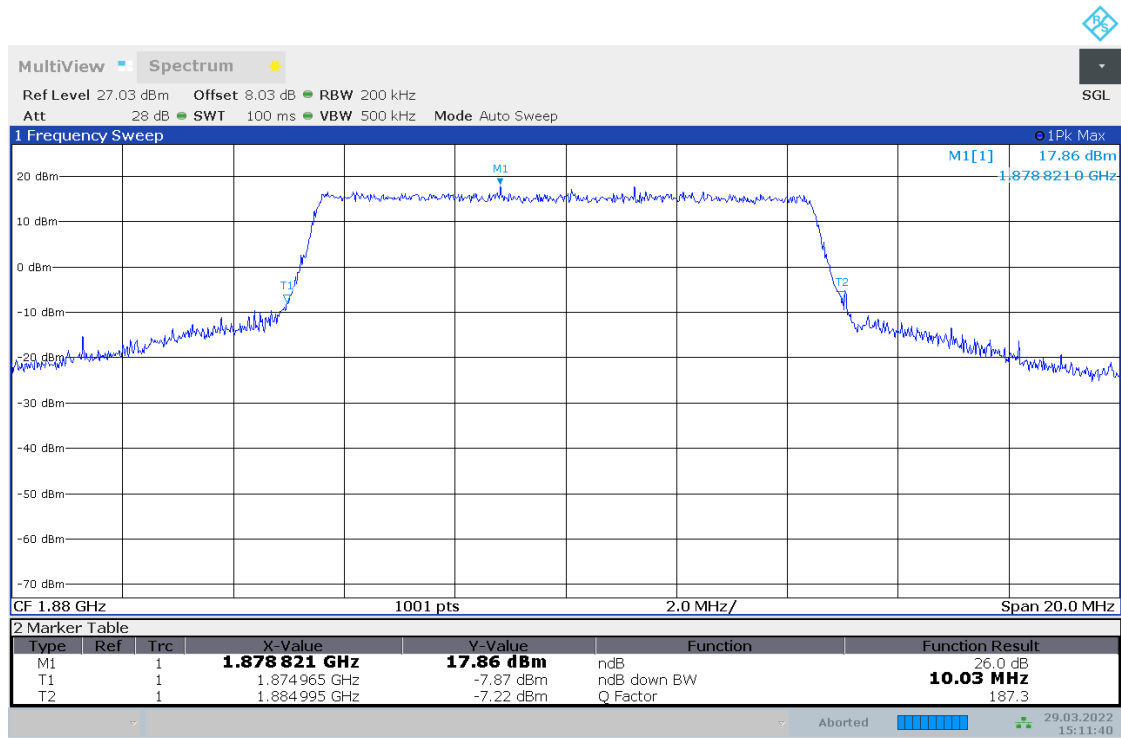
4.2.27 TM2_5MHZ_HCH_RB25#0



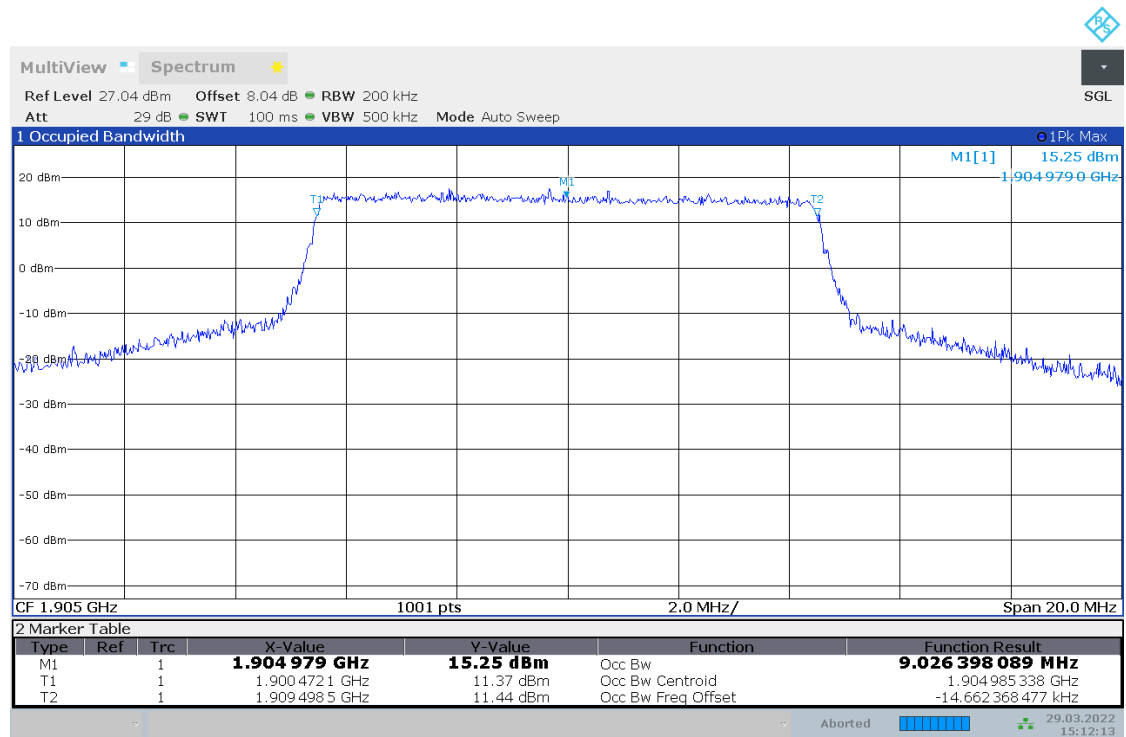
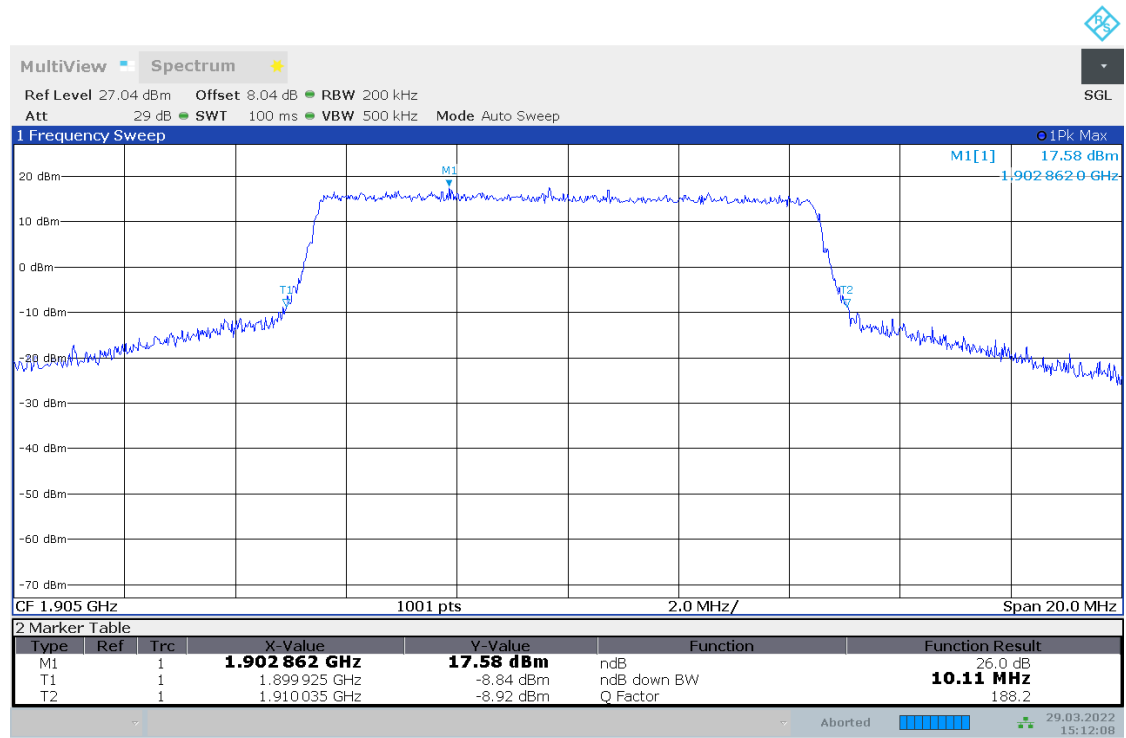
4.2.28 TM2_10MHZ_LCH_RB50#0



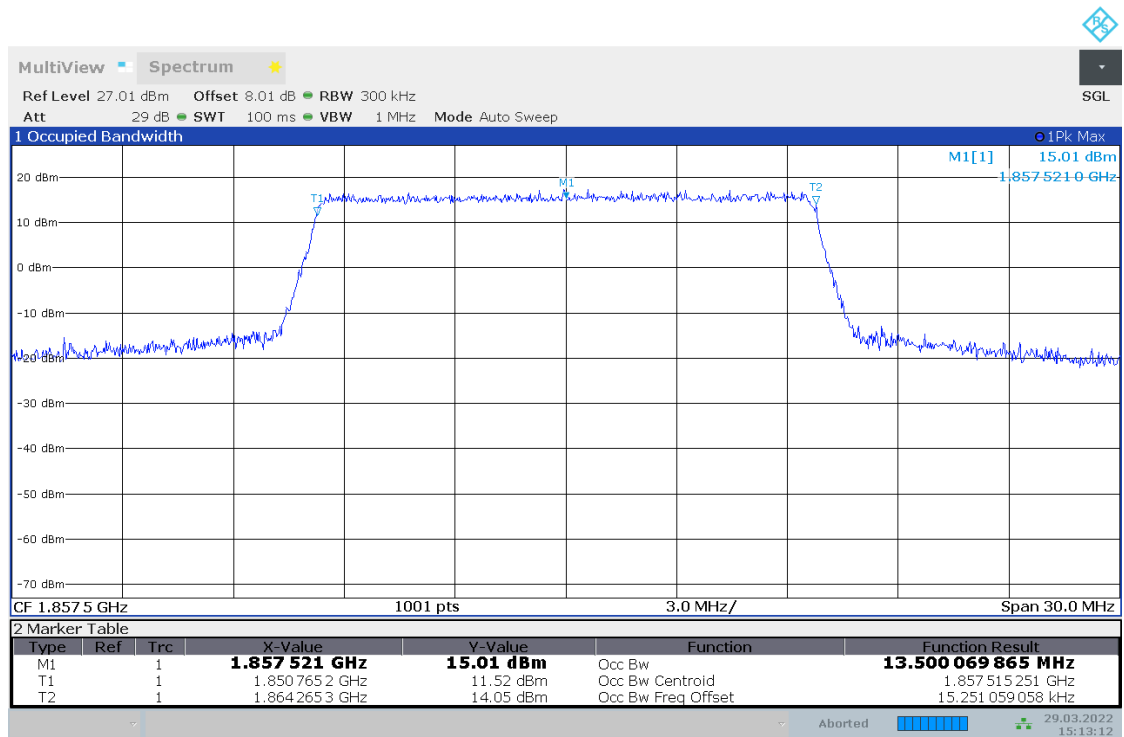
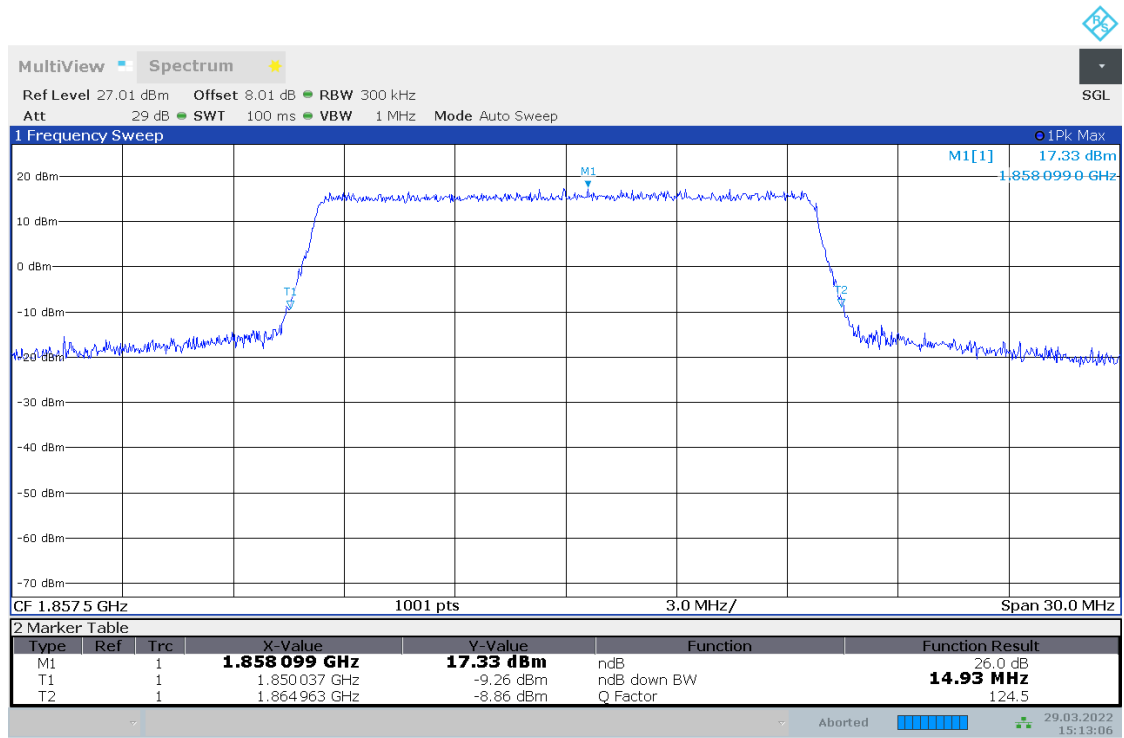
4.2.29 TM2_10MHZ_MCH_RB50#0



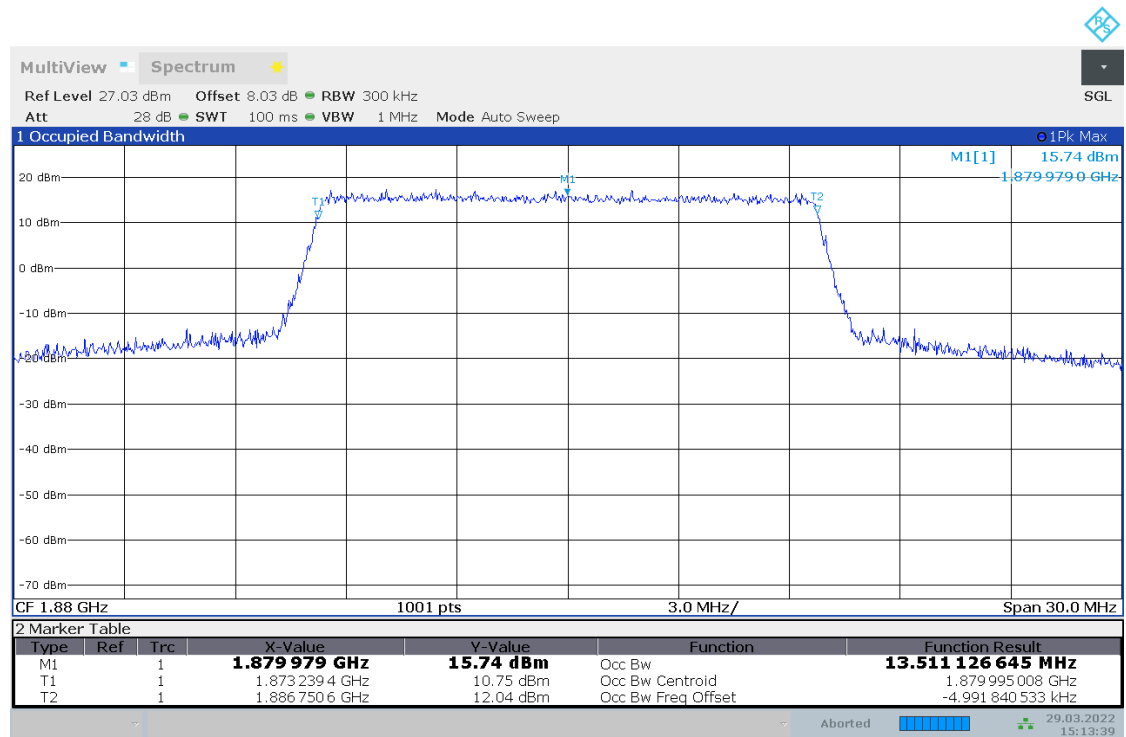
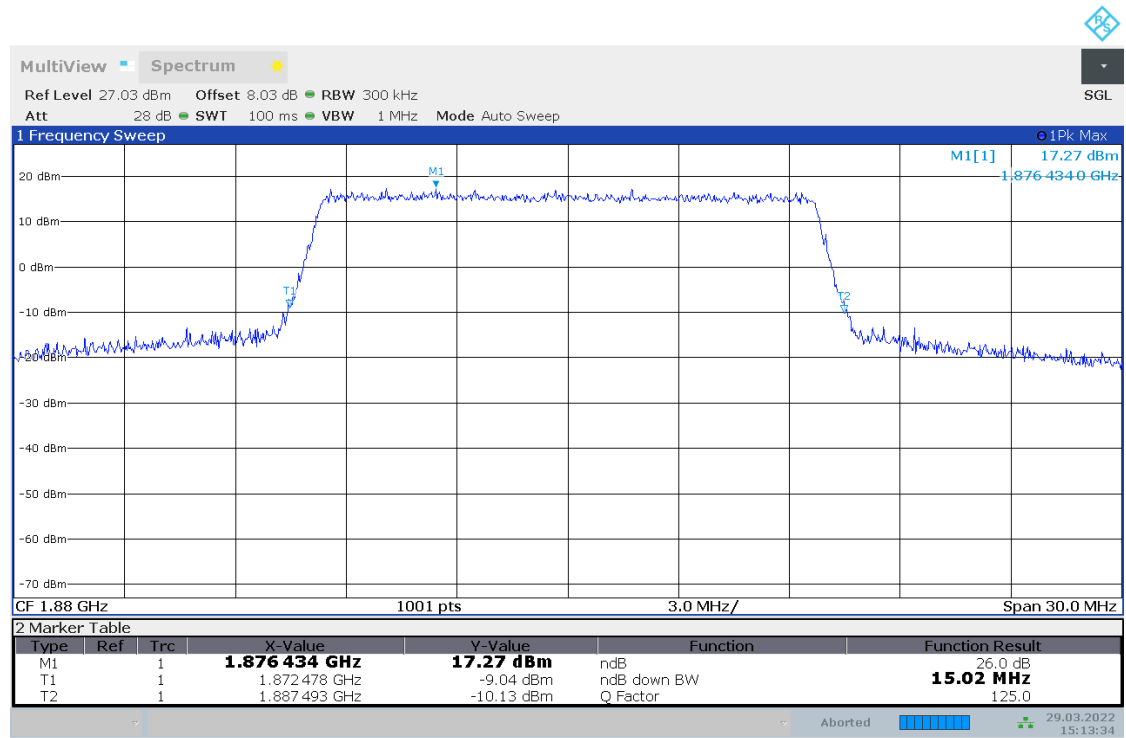
4.2.30 TM2_10MHZ_HCH_RB50#0



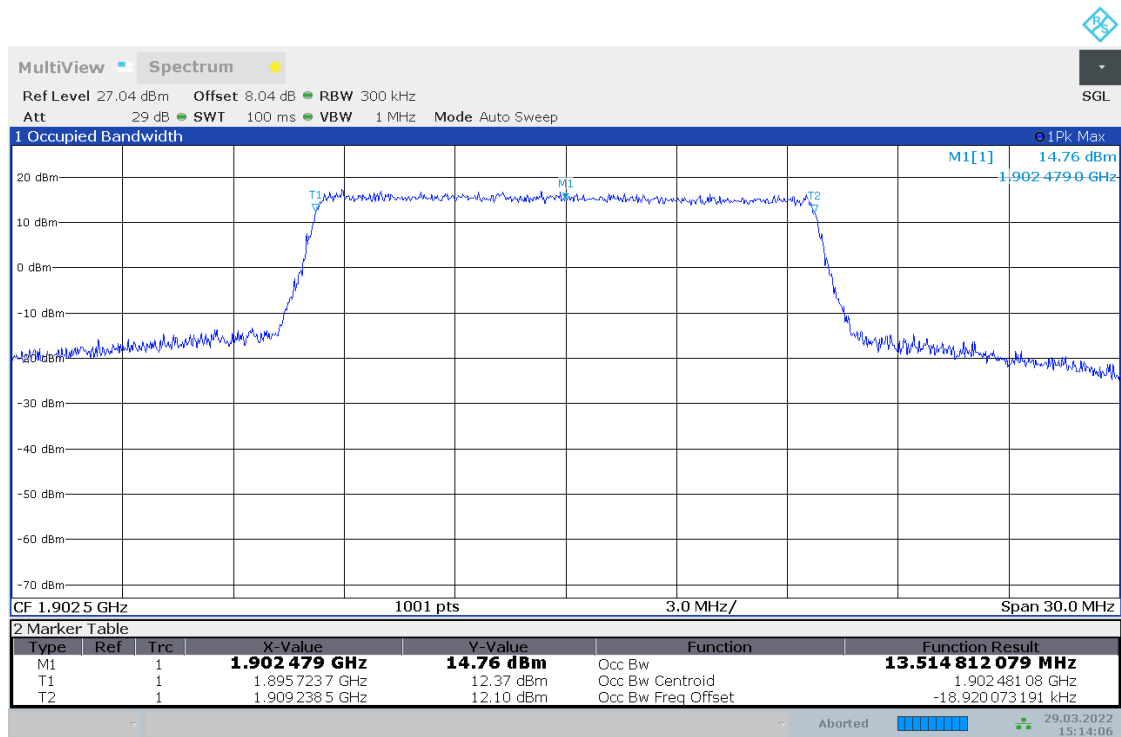
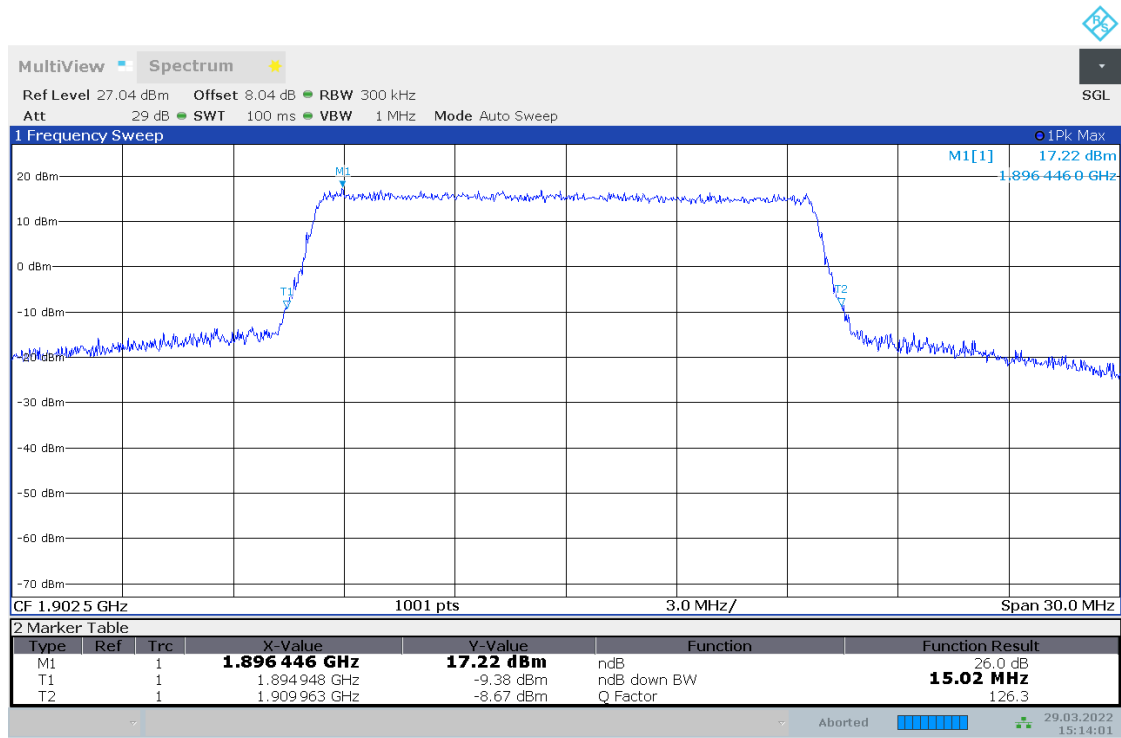
4.2.31 TM2_15MHZ_LCH_RB75#0



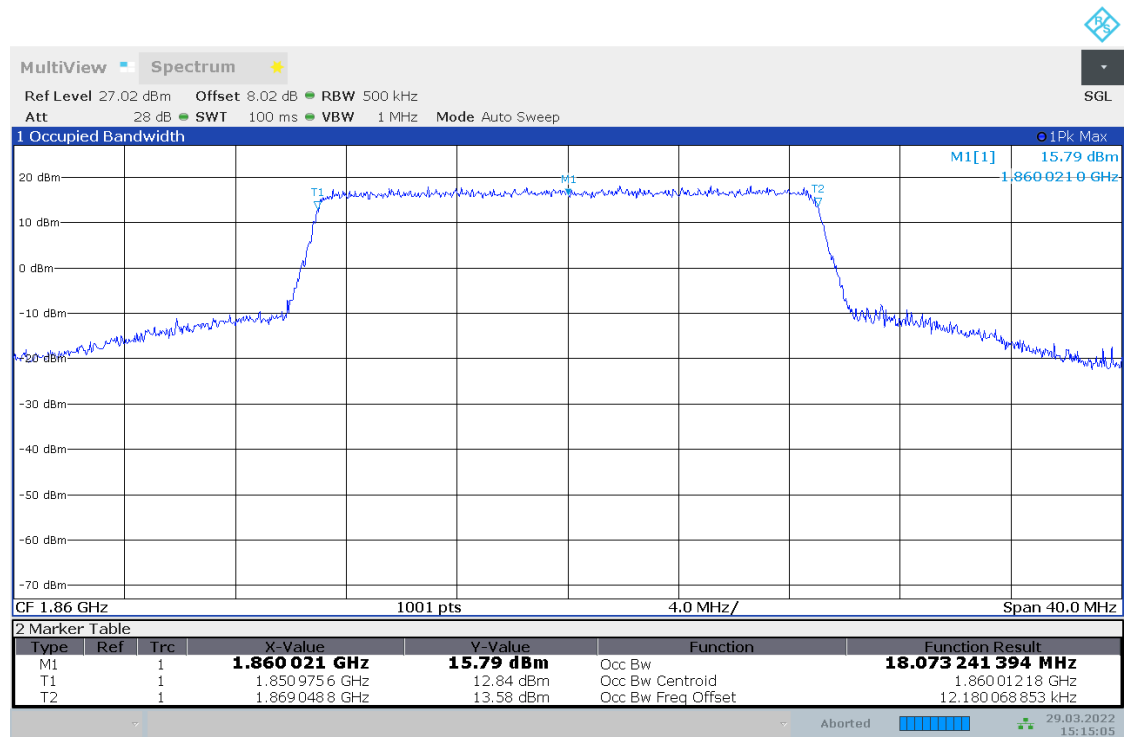
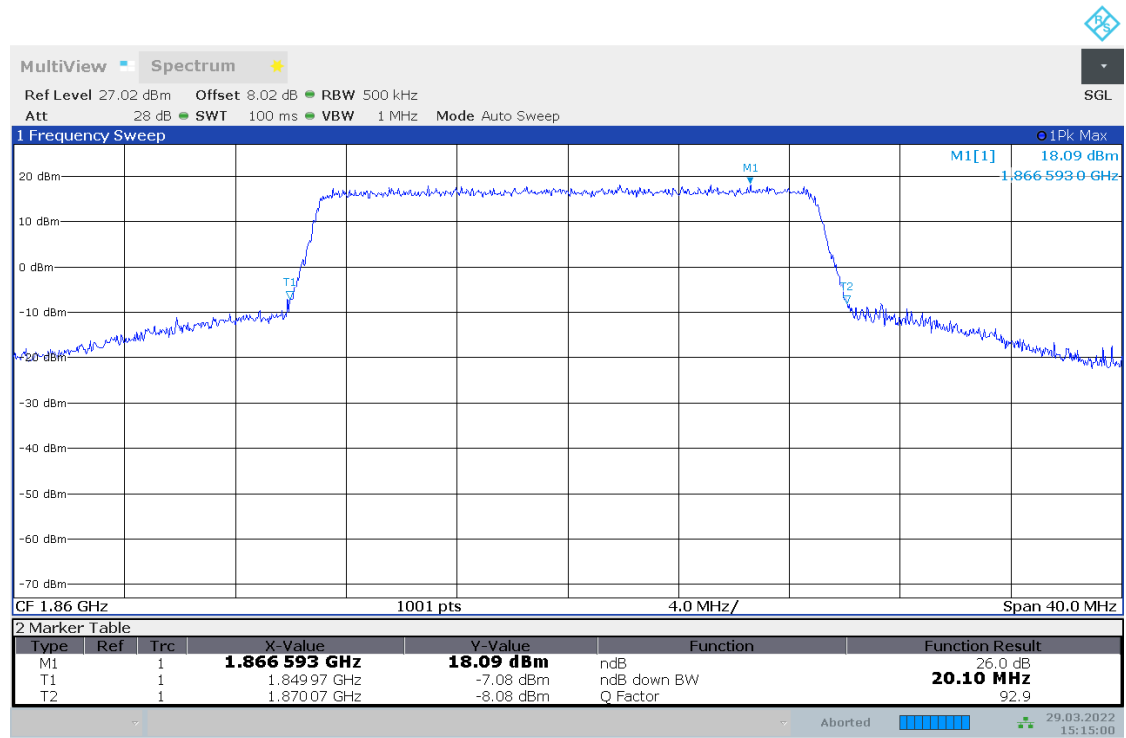
4.2.32 TM2_15MHZ_MCH_RB75#0



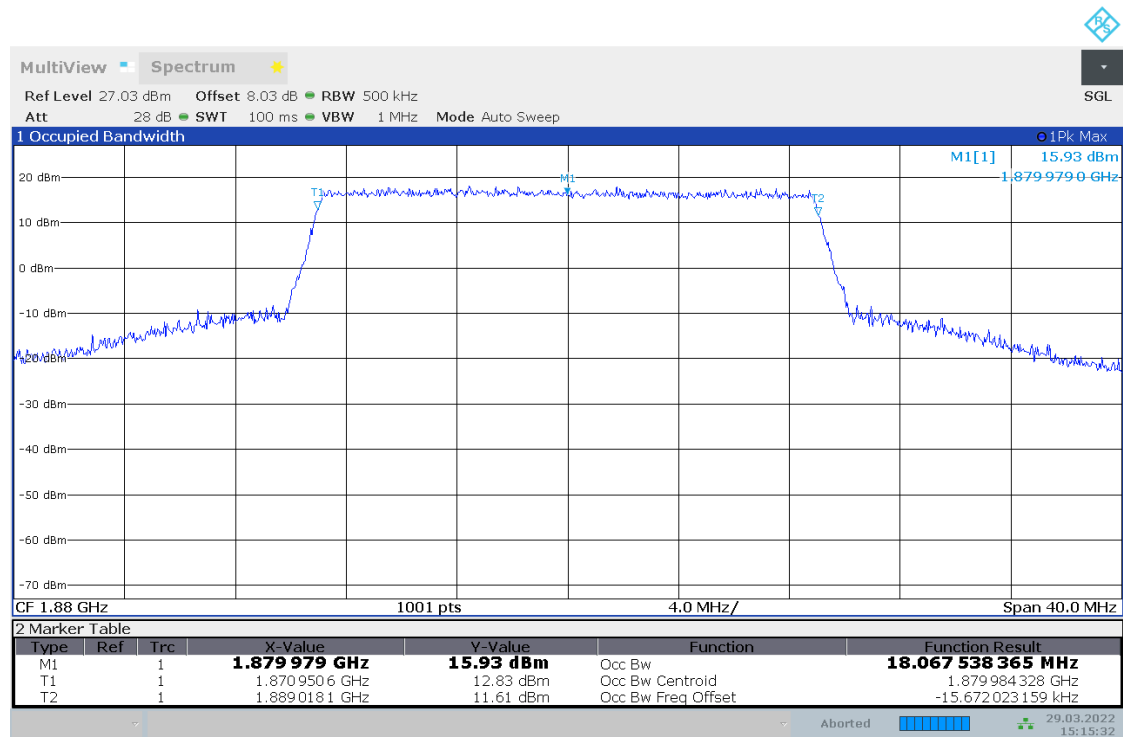
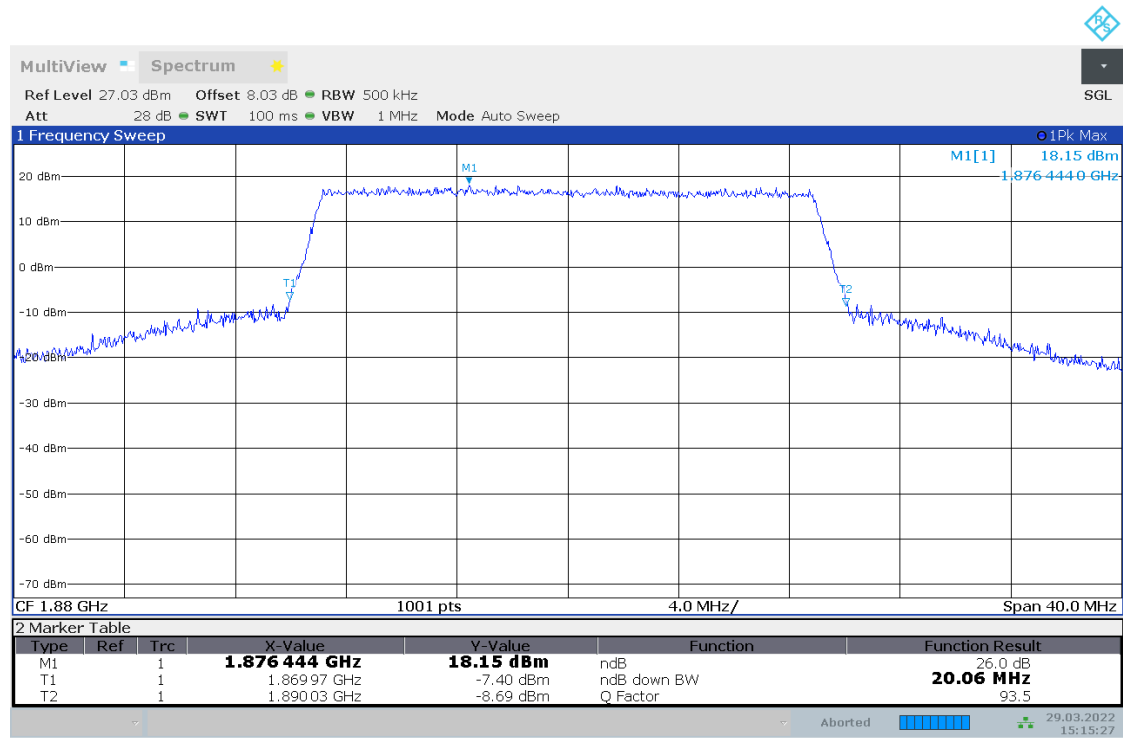
4.2.33 TM2_15MHZ_HCH_RB75#0



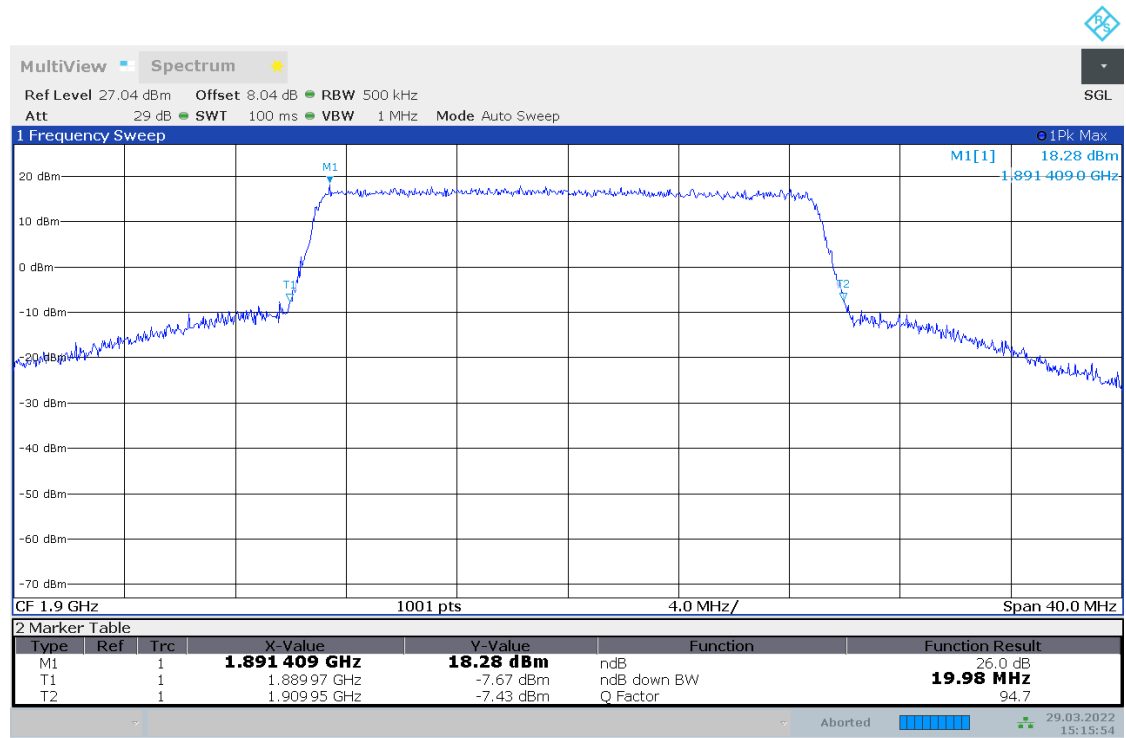
4.2.34 TM2_20MHZ_LCH_RB100#0



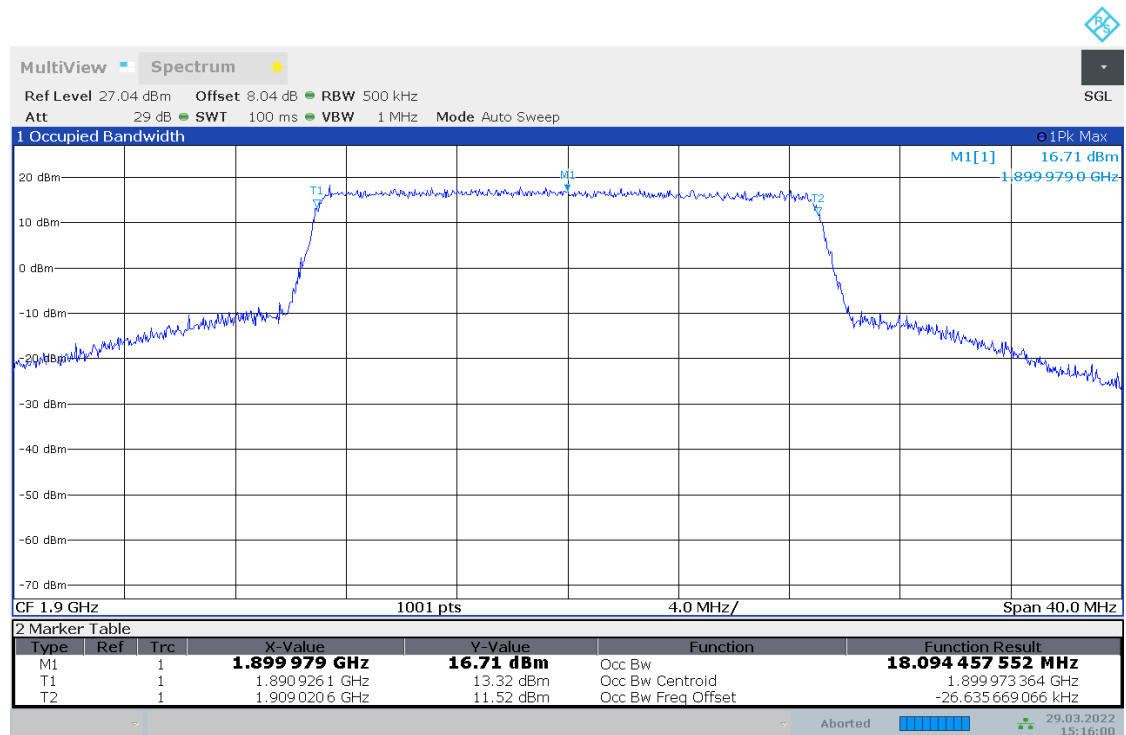
4.2.35 TM2_20MHZ_MCH_RB100#0



4.2.36 TM2_20MHZ_HCH_RB100#0

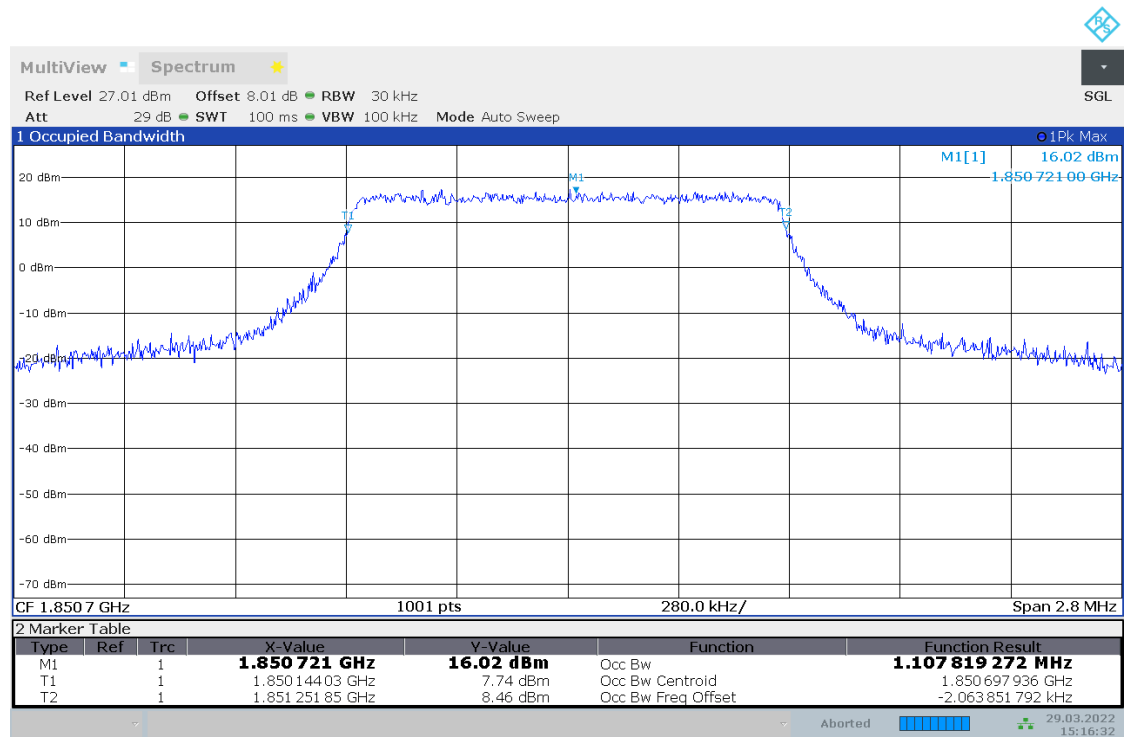
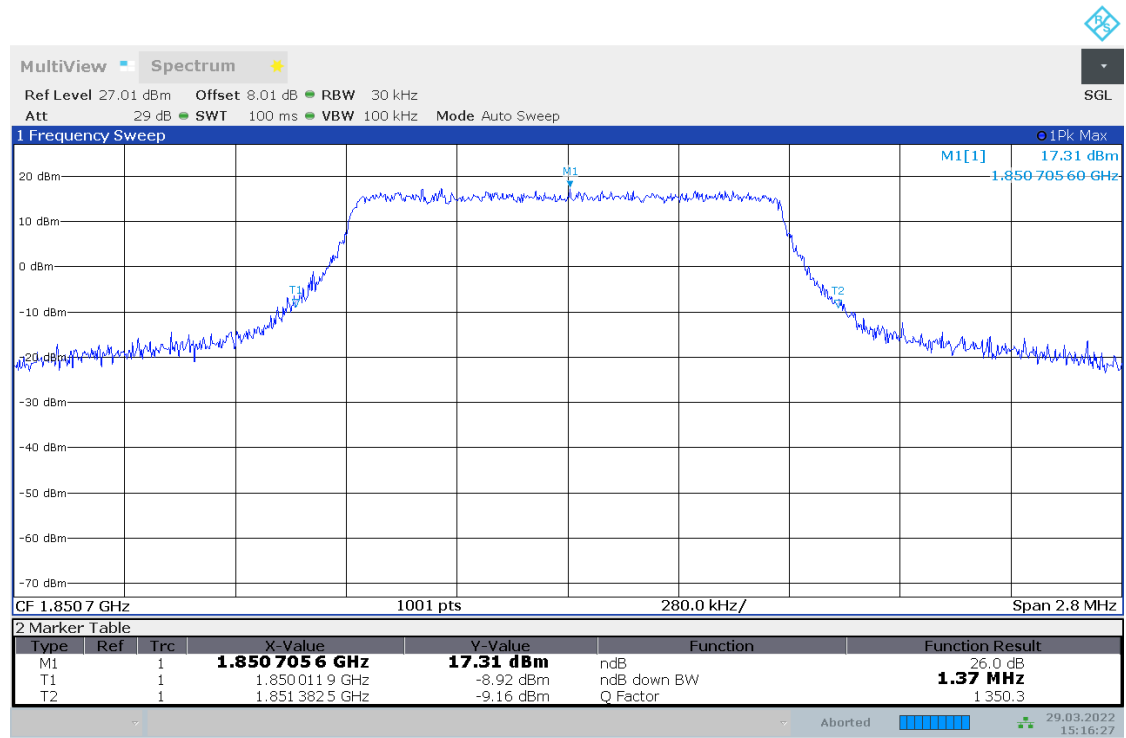


15:15:55 29.03.2022

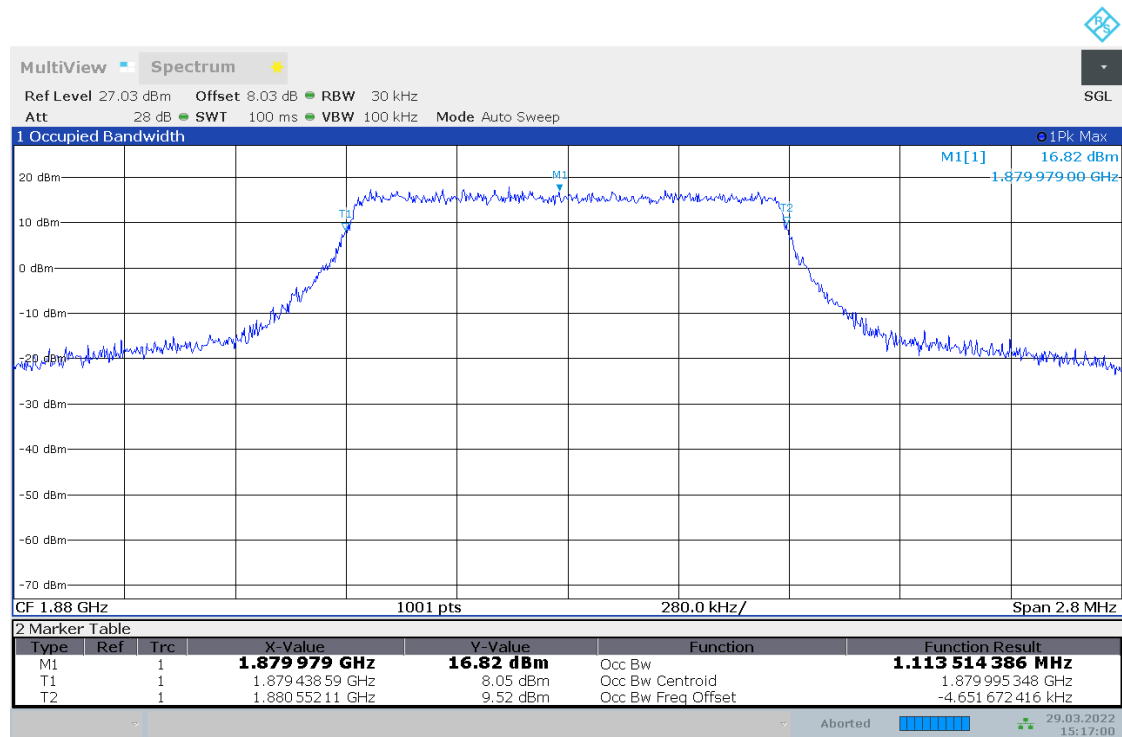
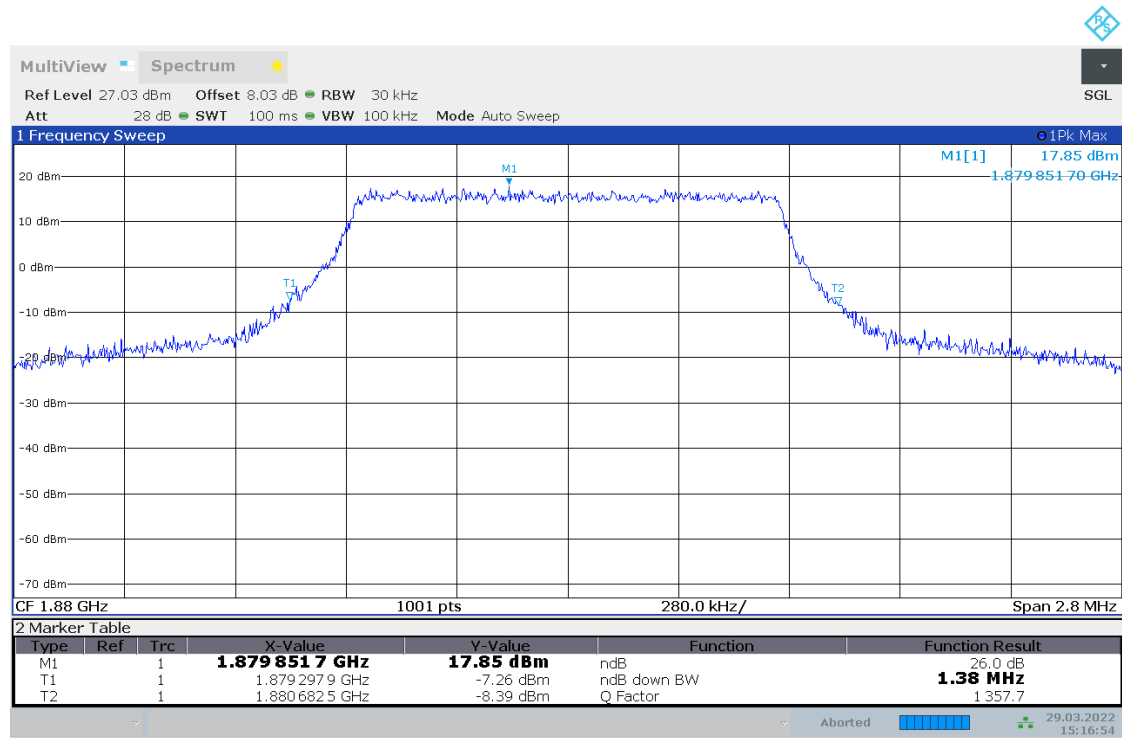


15:16:00 29.03.2022

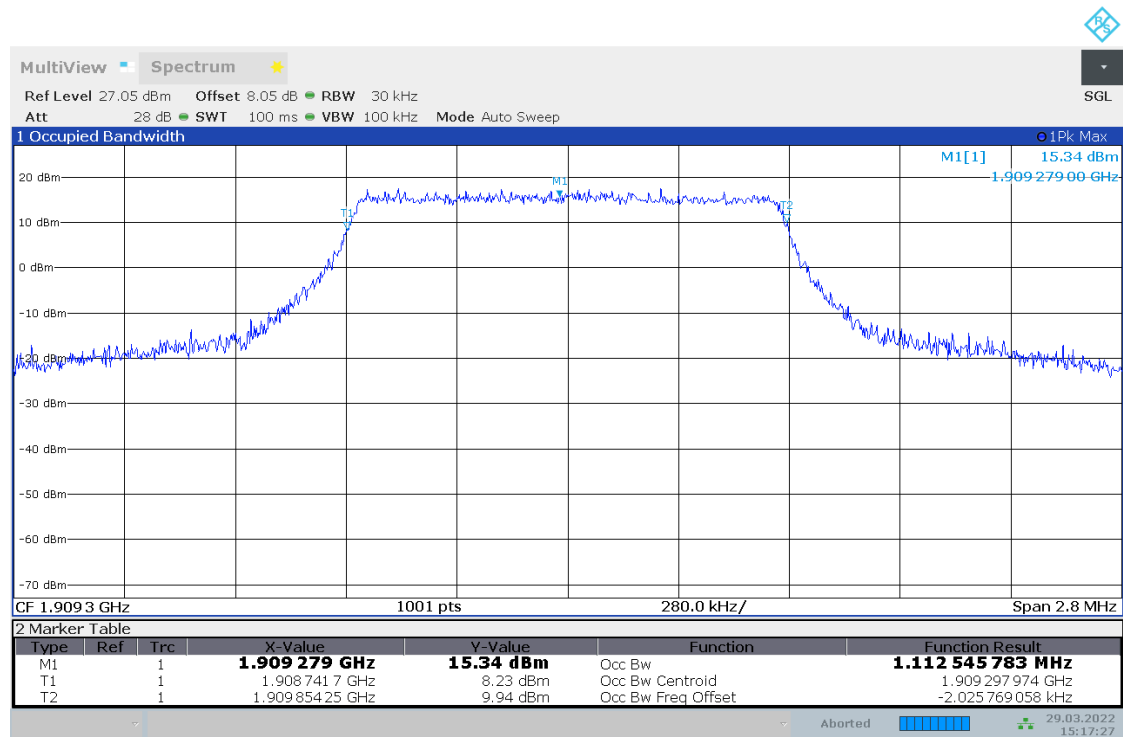
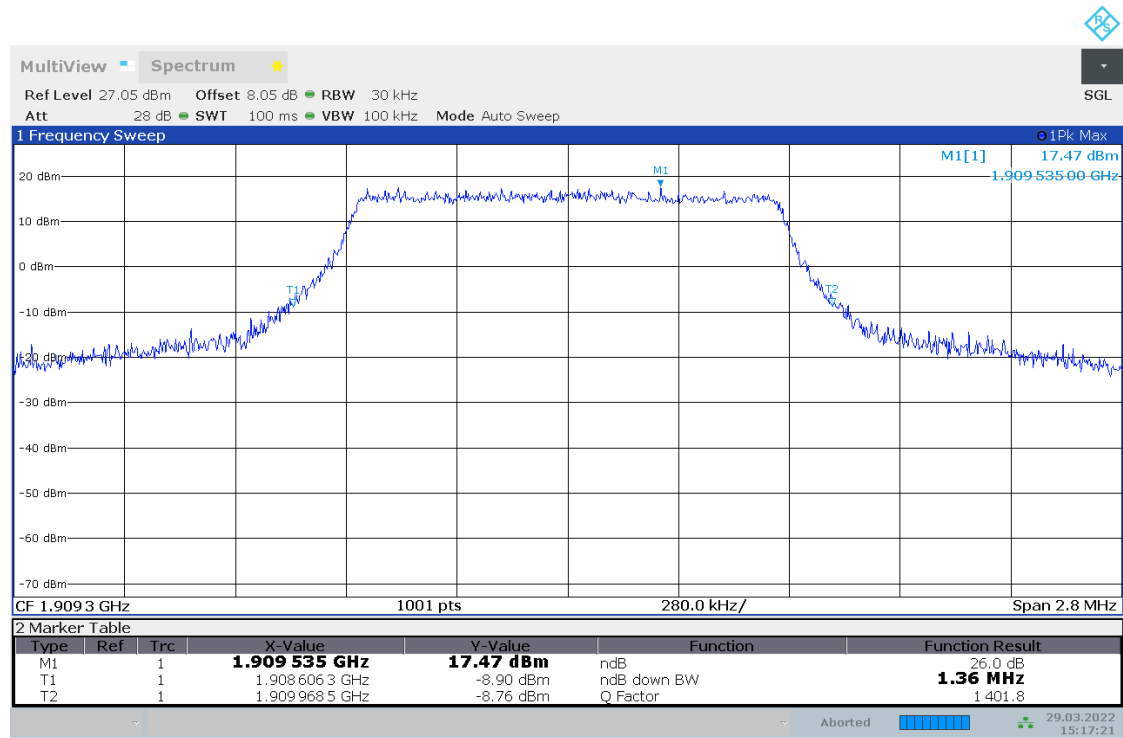
4.2.37 TM3_1.4MHZ_LCH_RB6#0



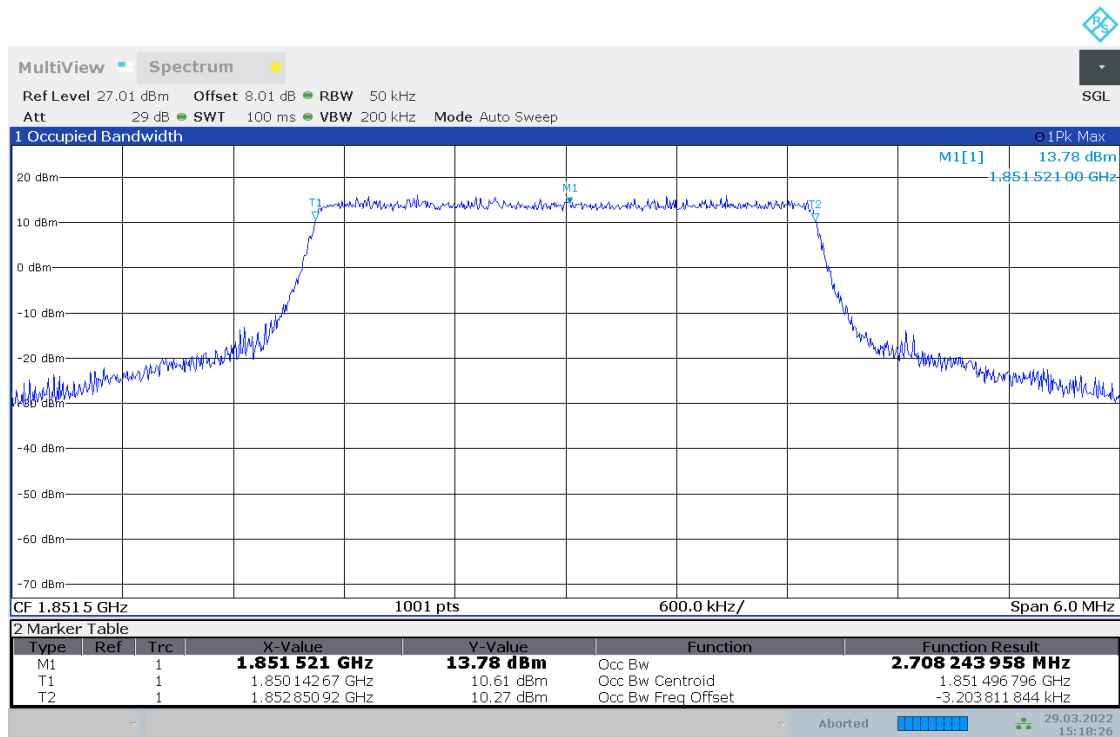
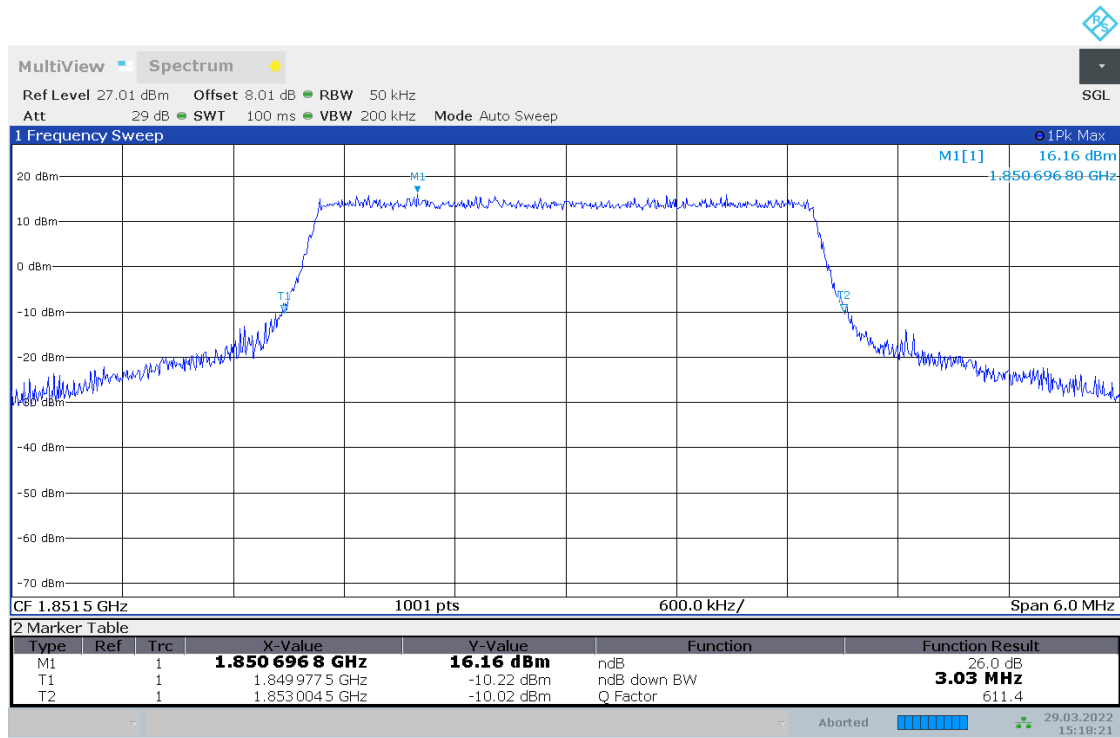
4.2.38 TM3_1.4MHZ_MCH_RB6#0



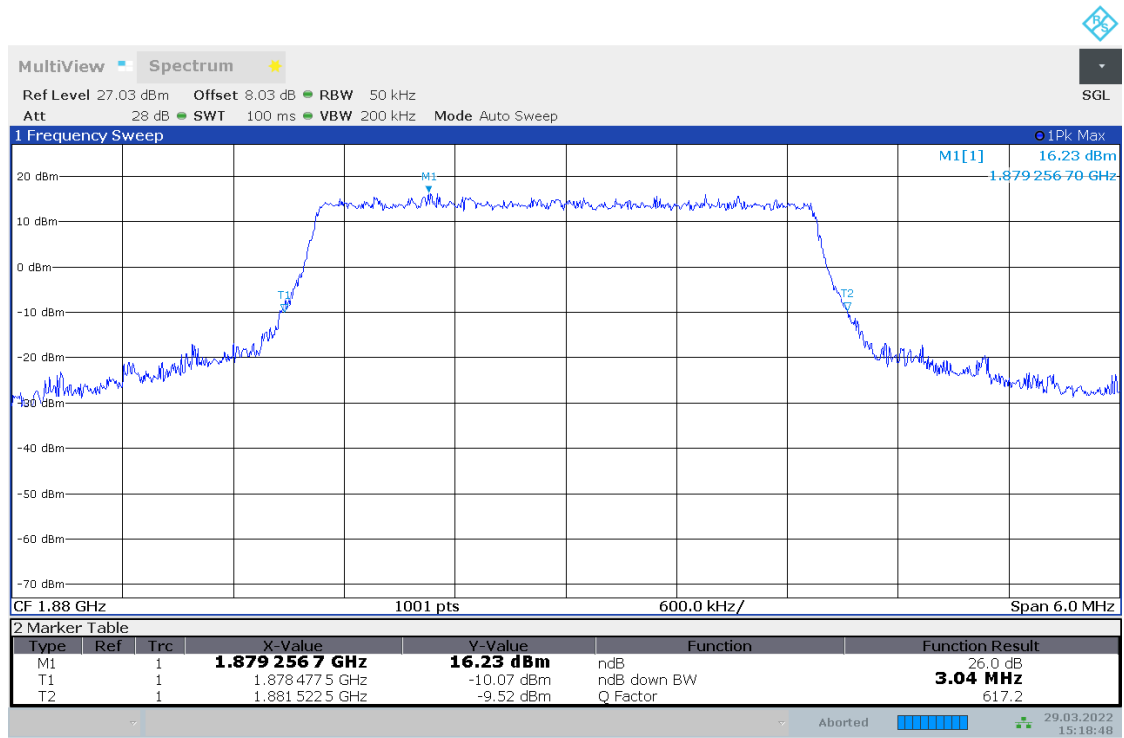
4.2.39 TM3_1.4MHZ_HCH_RB6#0



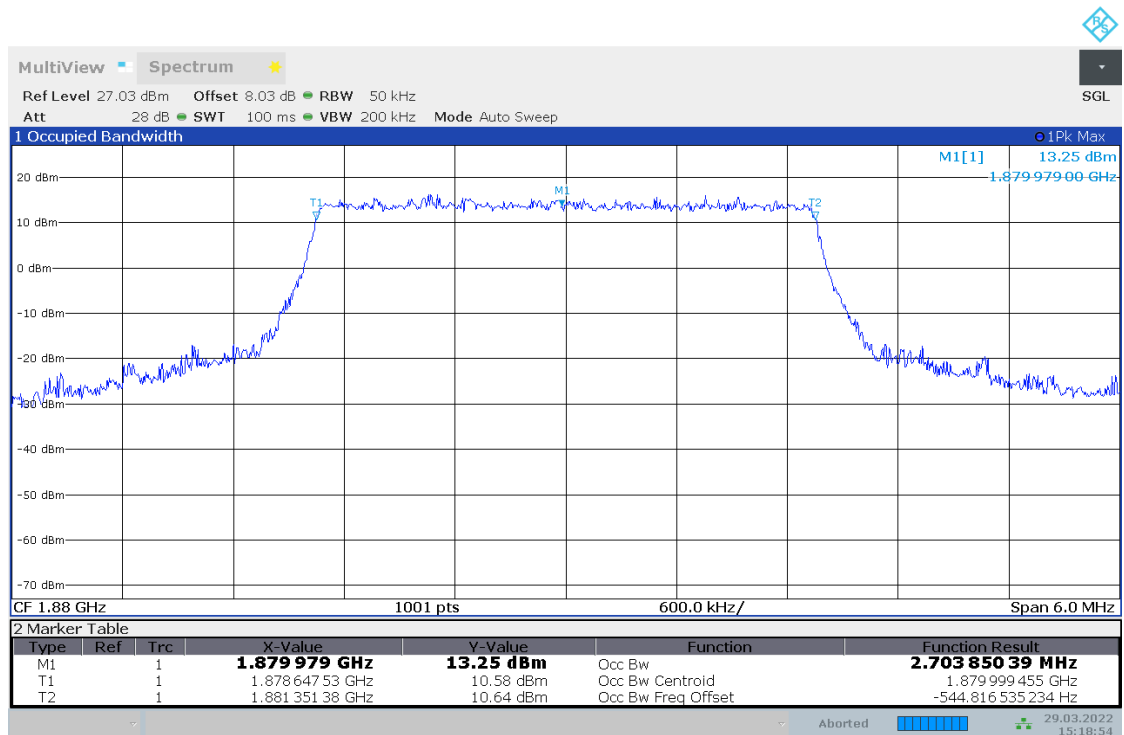
4.2.40 TM3_3MHZ_LCH_RB15#0



4.2.41 TM3_3MHZ_MCH_RB15#0

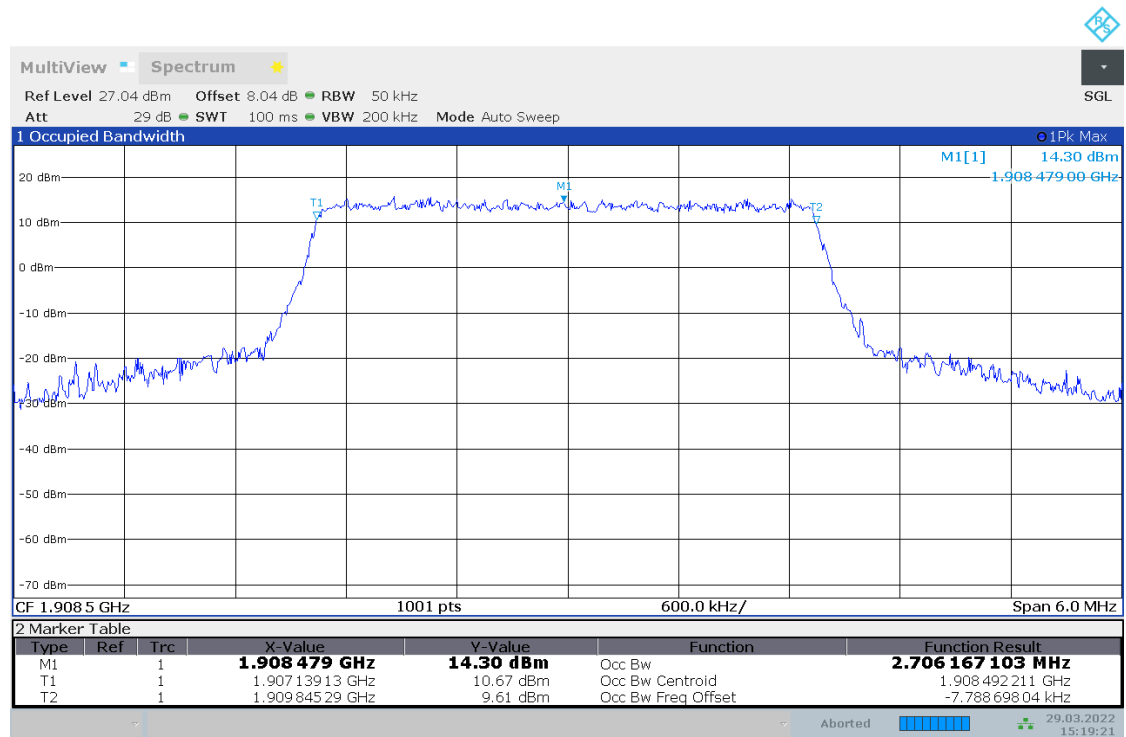
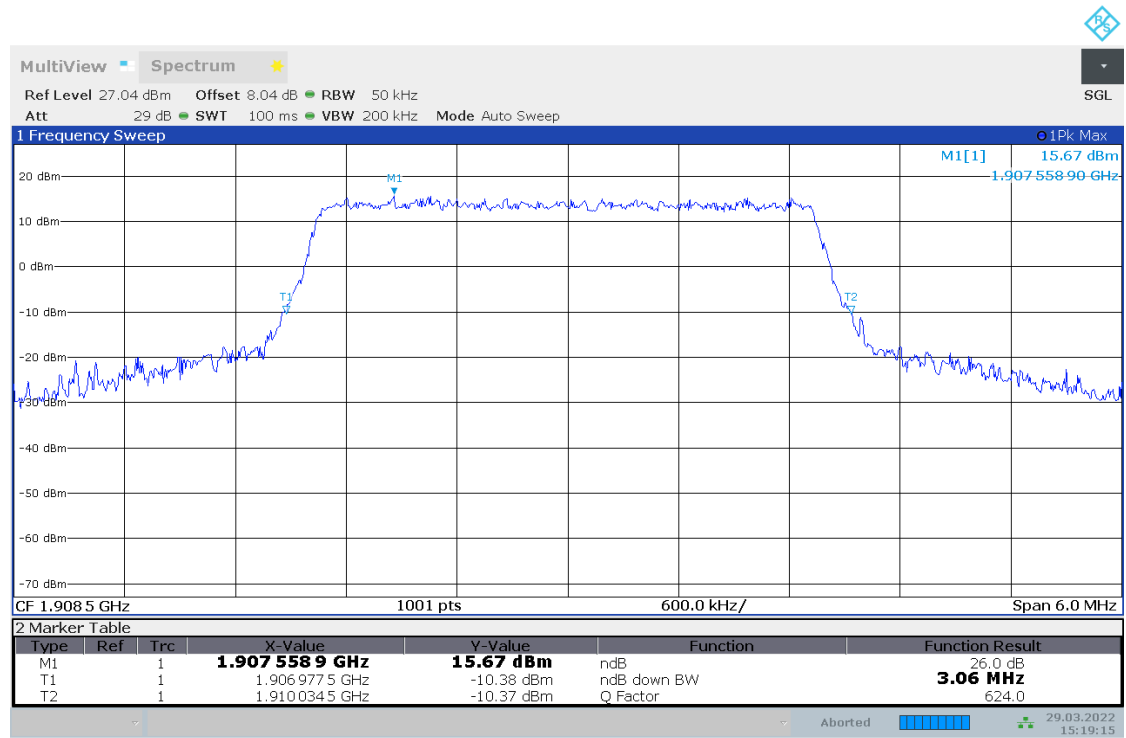


15:18:48 29.03.2022

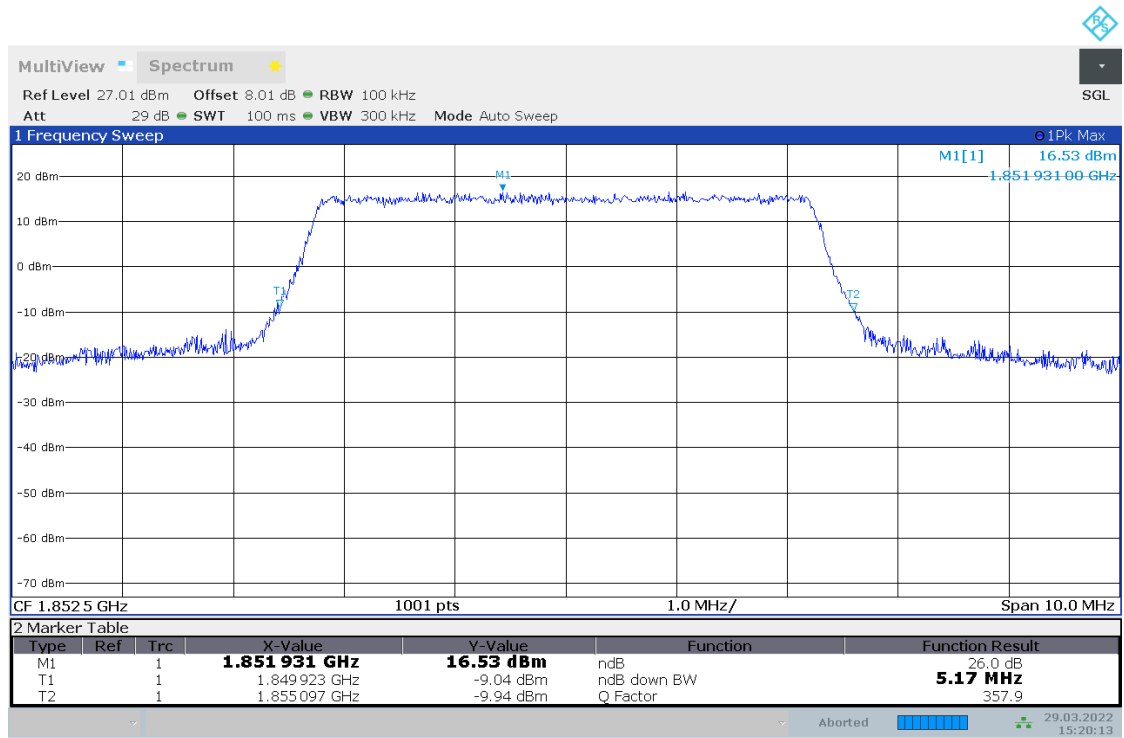


15:18:54 29.03.2022

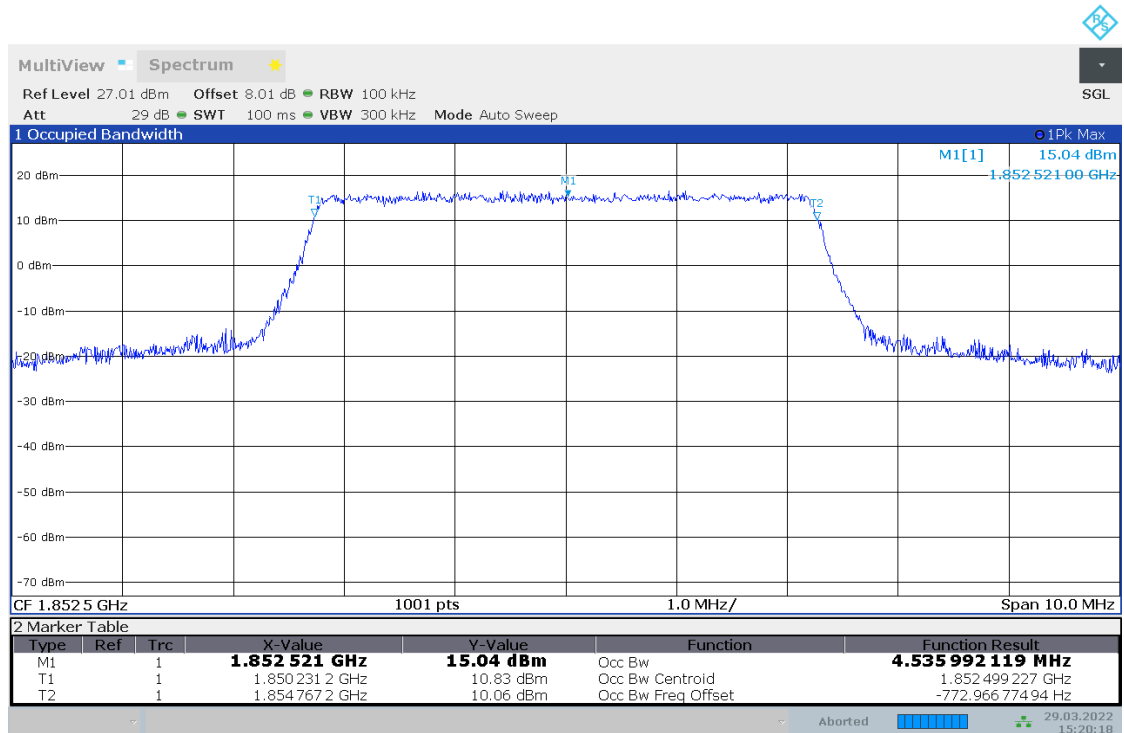
4.2.42 TM3_3MHZ_HCH_RB15#0



4.2.43 TM3_5MHZ_LCH_RB25#0

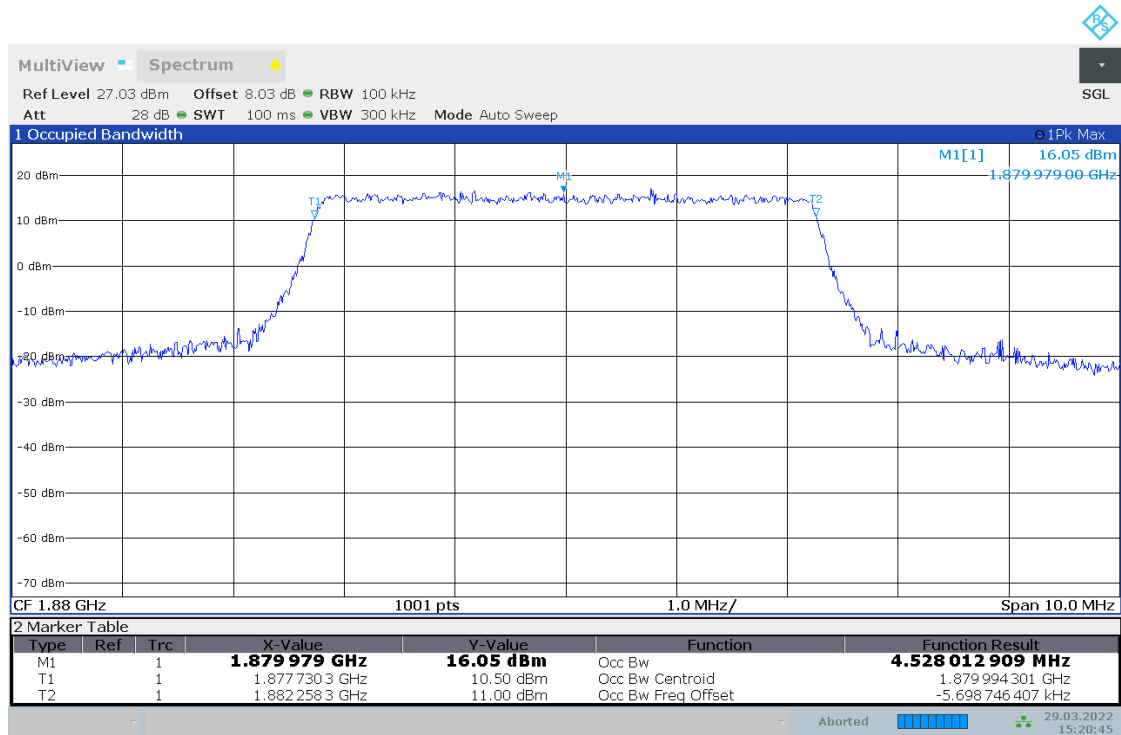
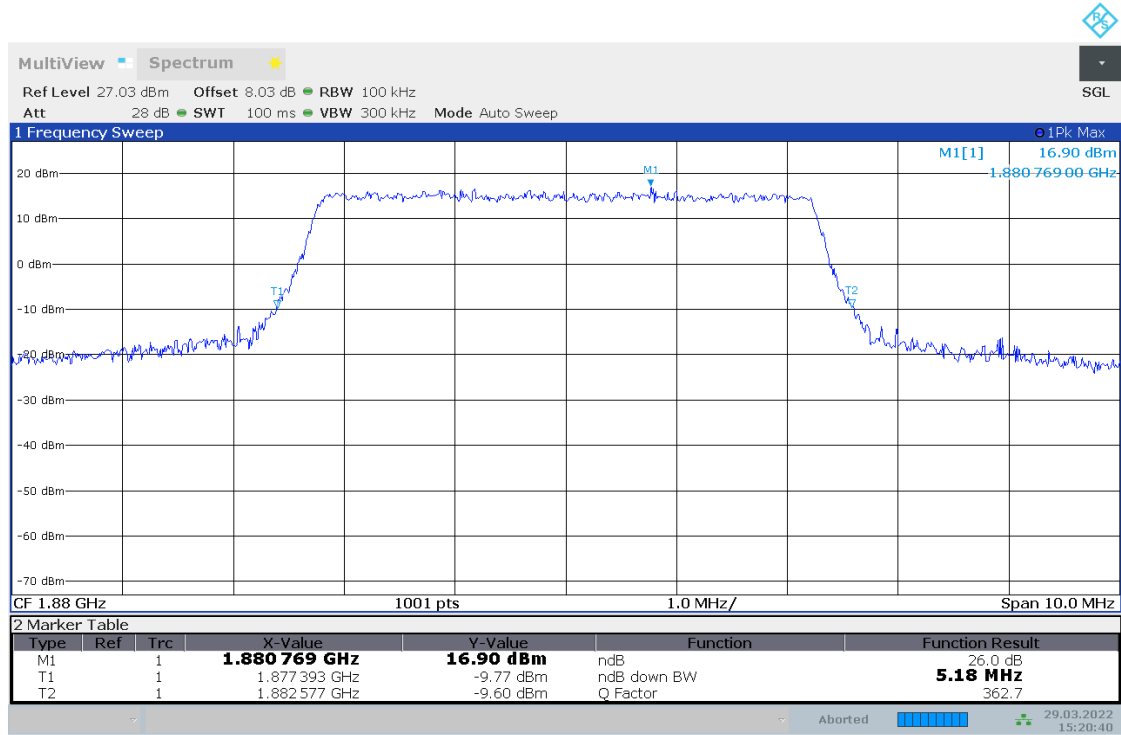


15:20:13 29.03.2022

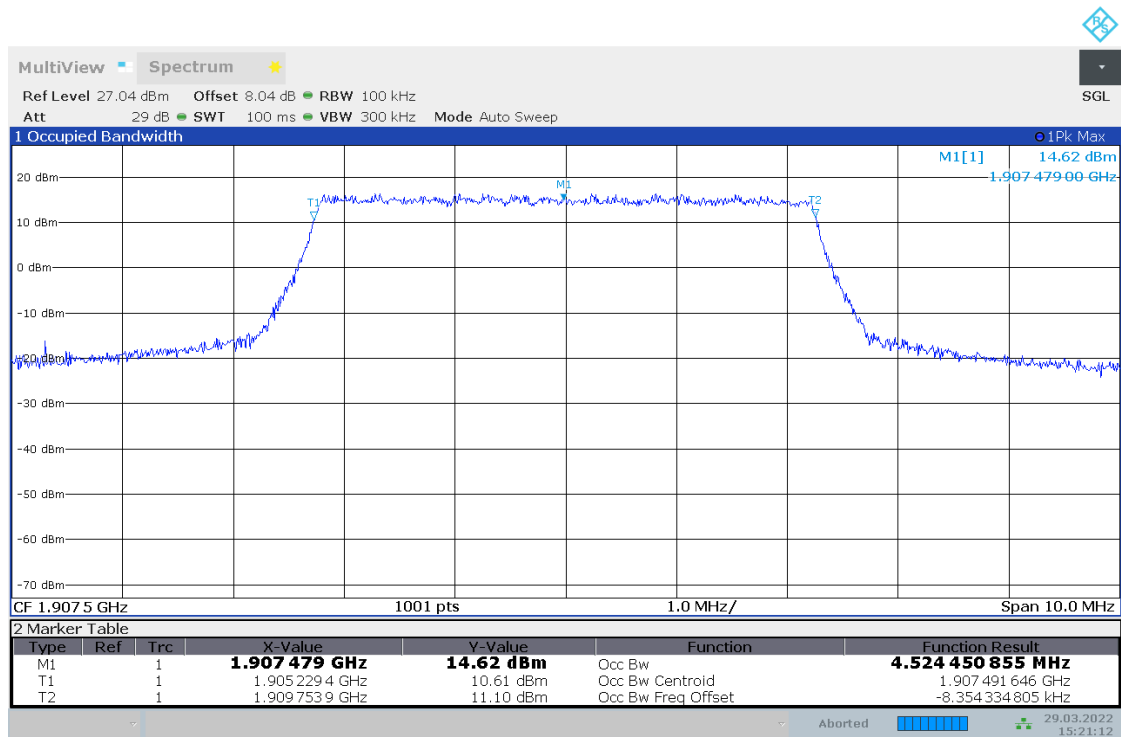
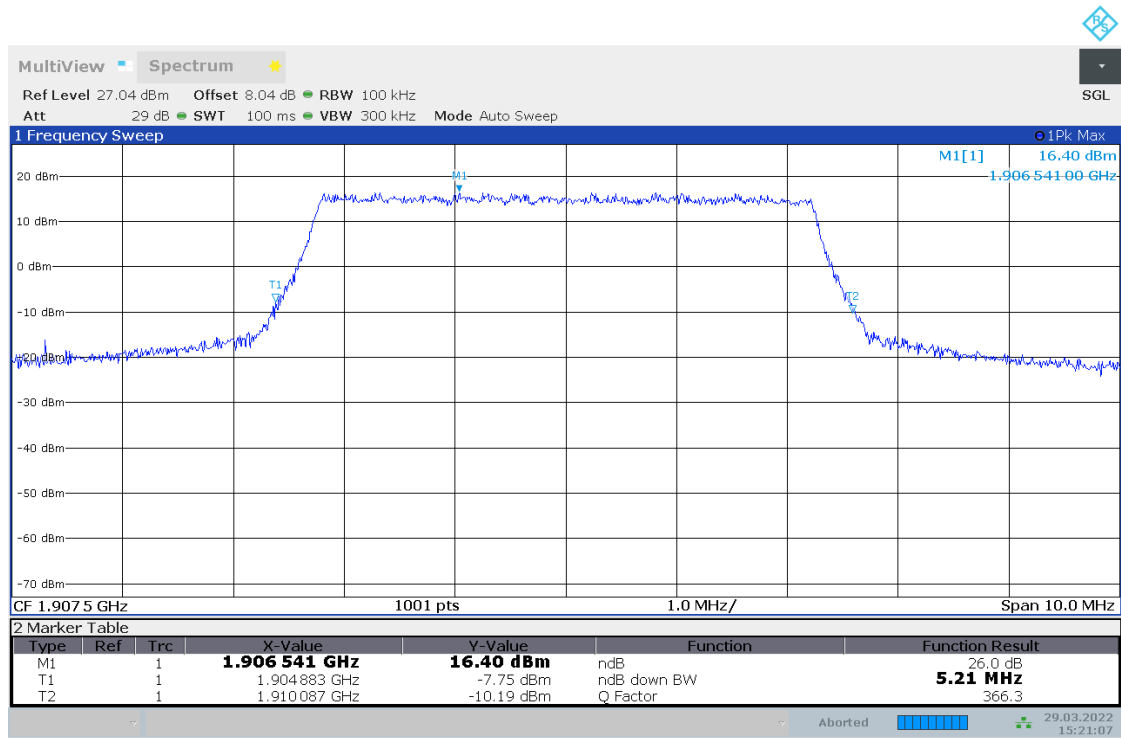


15:20:18 29.03.2022

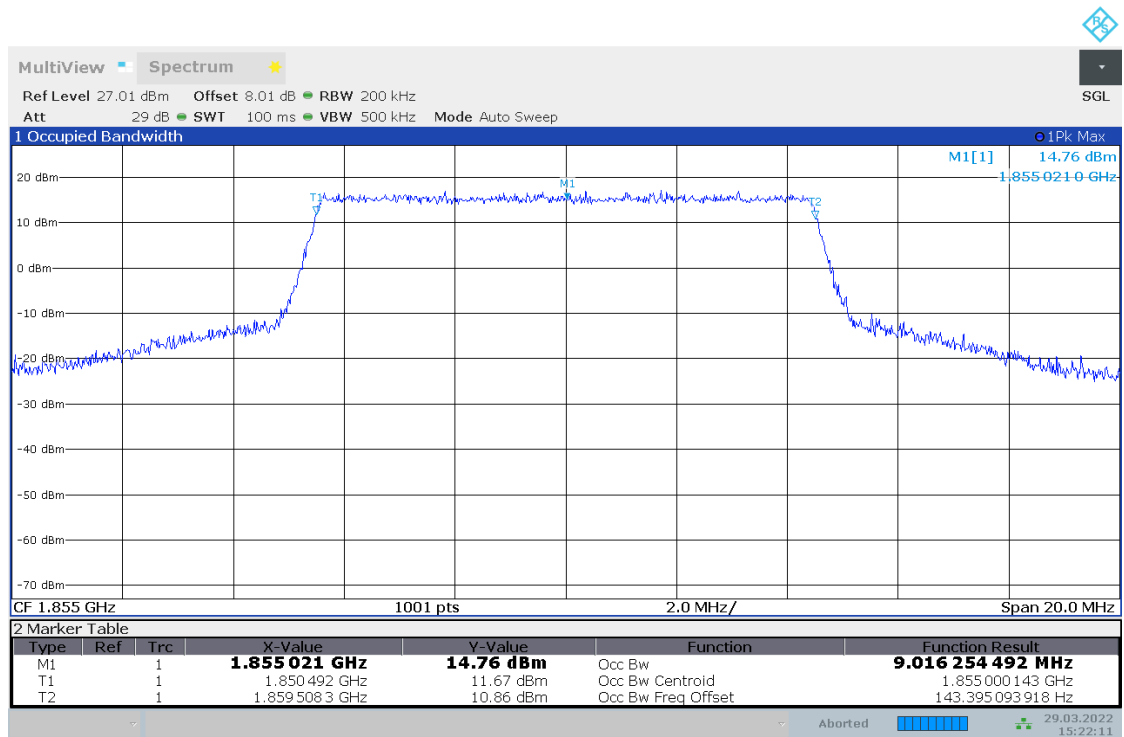
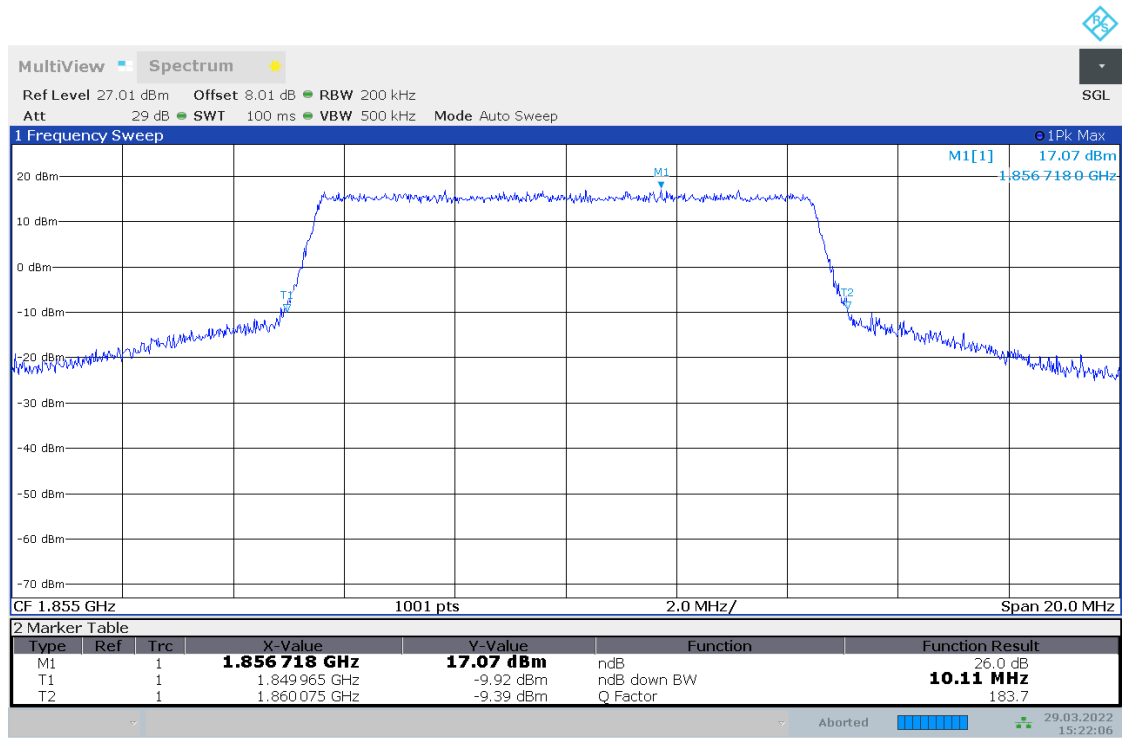
4.2.44 TM3_5MHZ_MCH_RB25#0



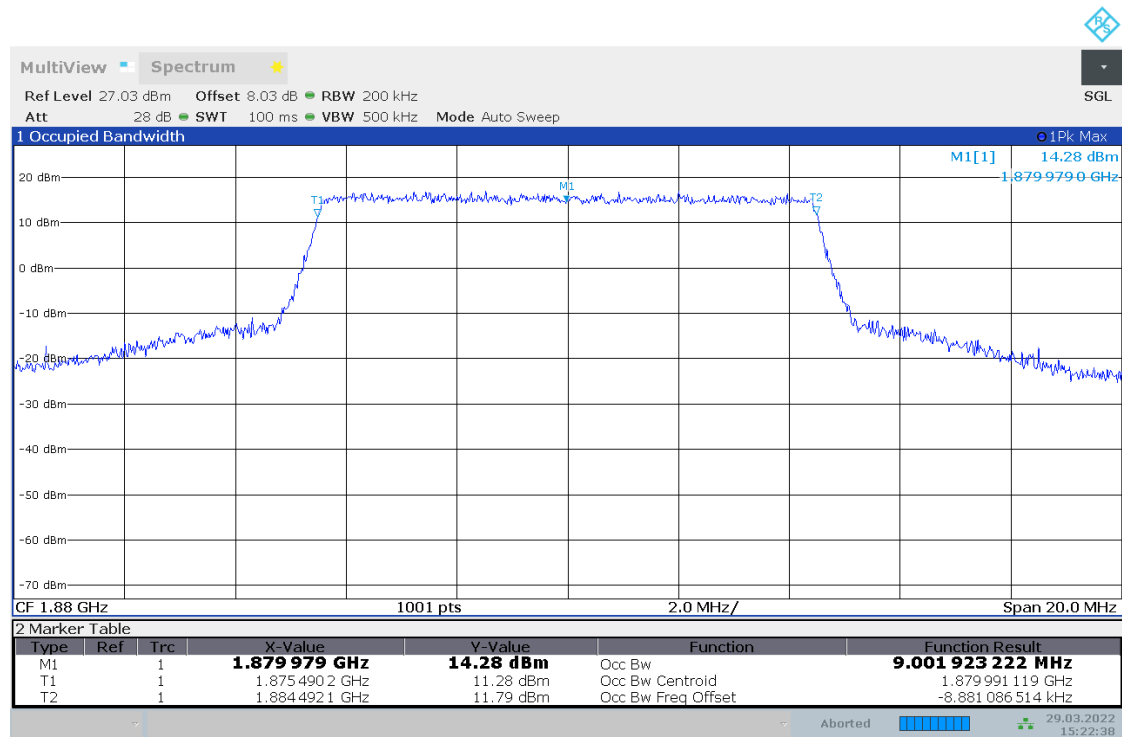
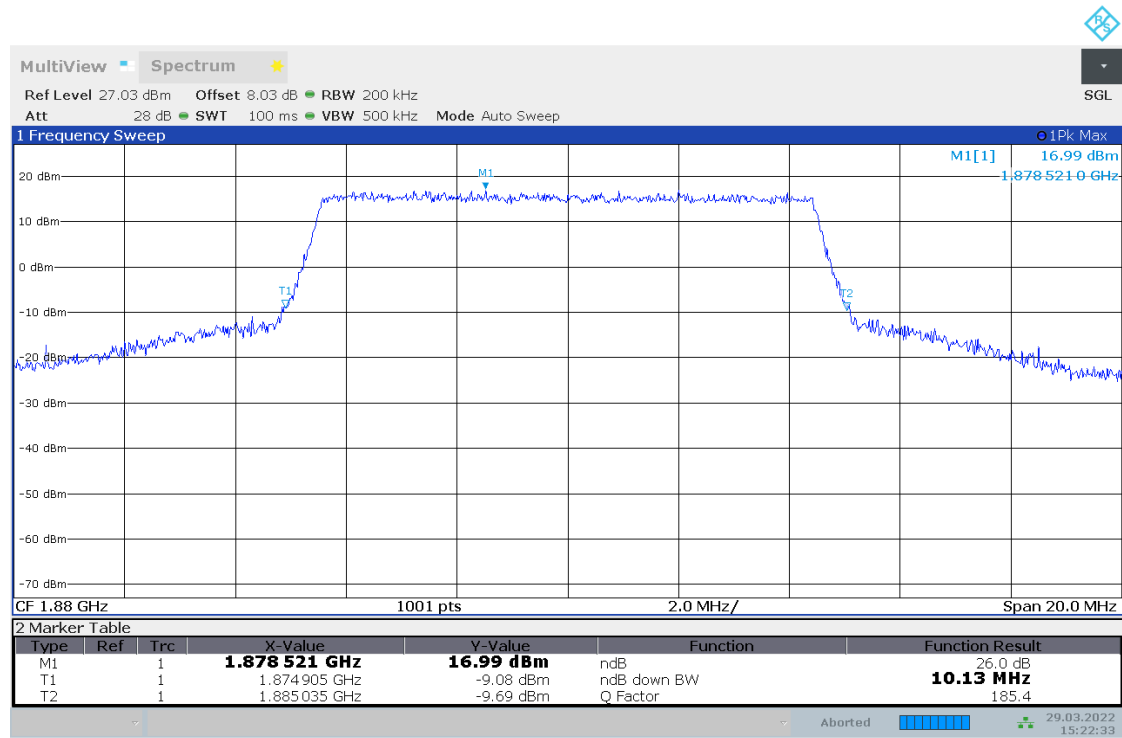
4.2.45 TM3_5MHZ_HCH_RB25#0



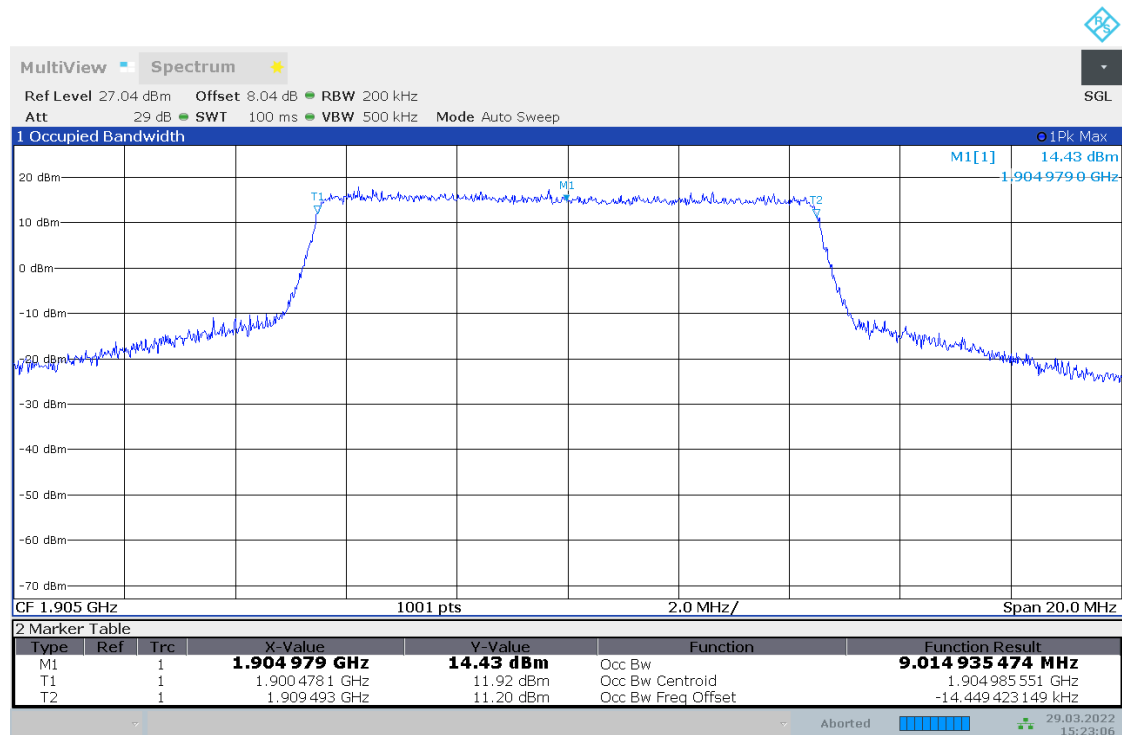
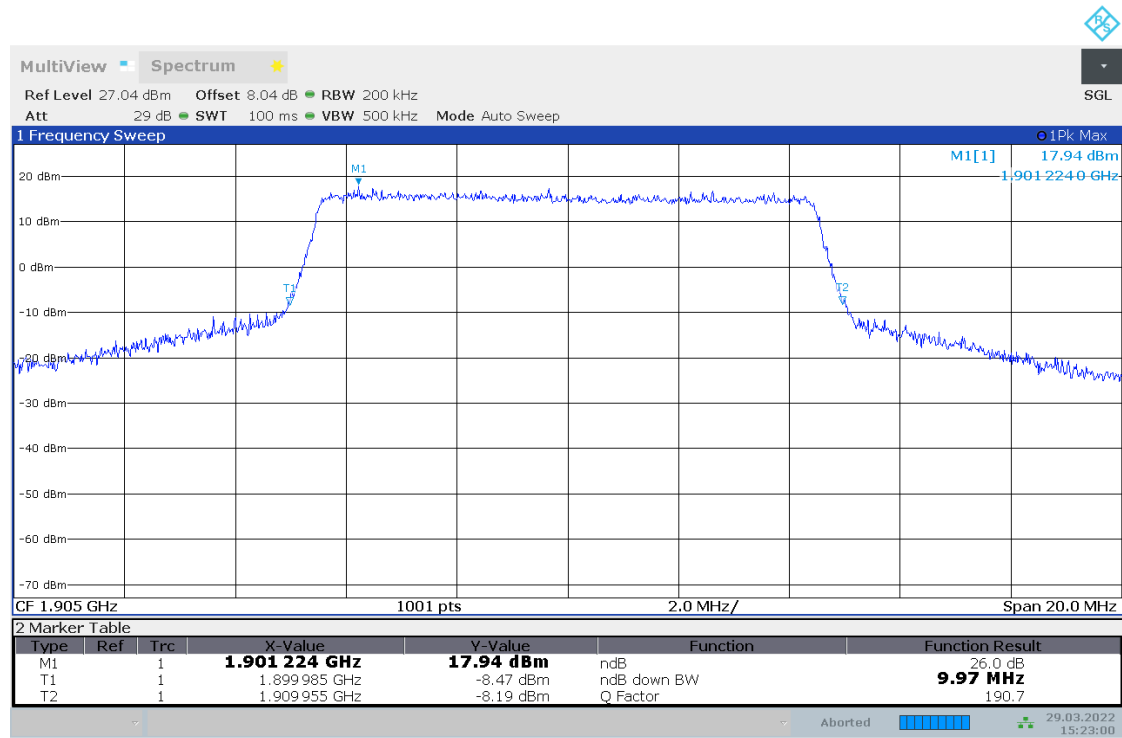
4.2.46 TM3_10MHZ_LCH_RB50#0



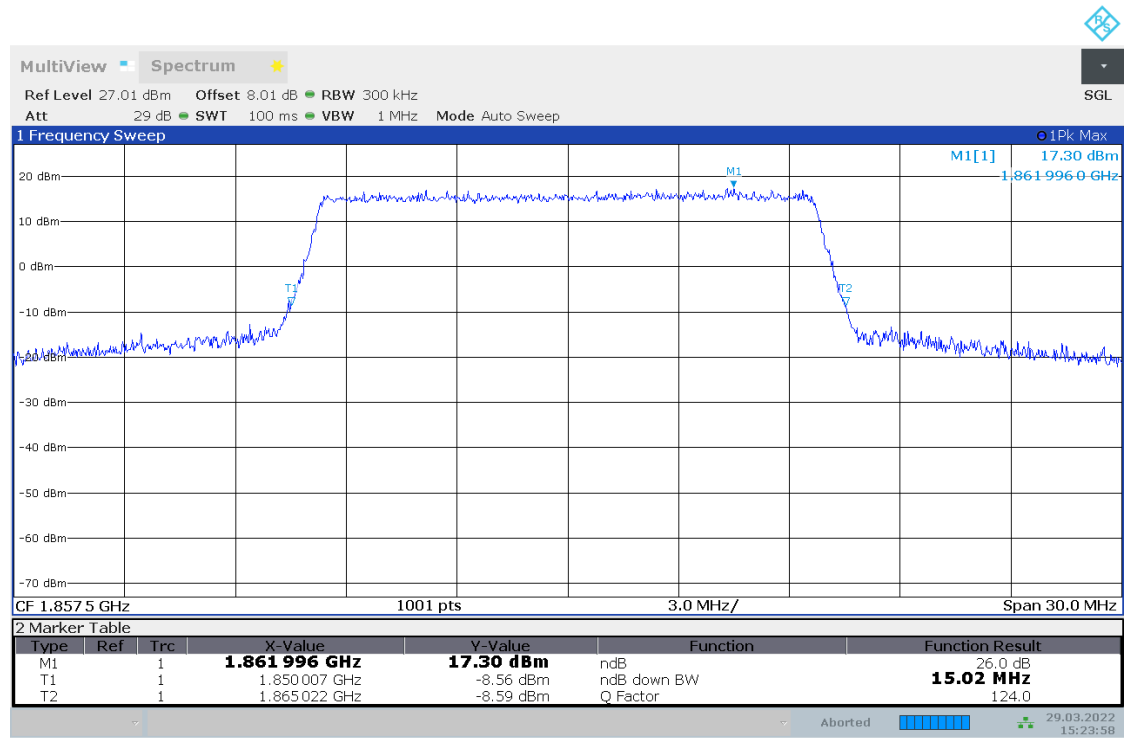
4.2.47 TM3_10MHZ_MCH_RB50#0



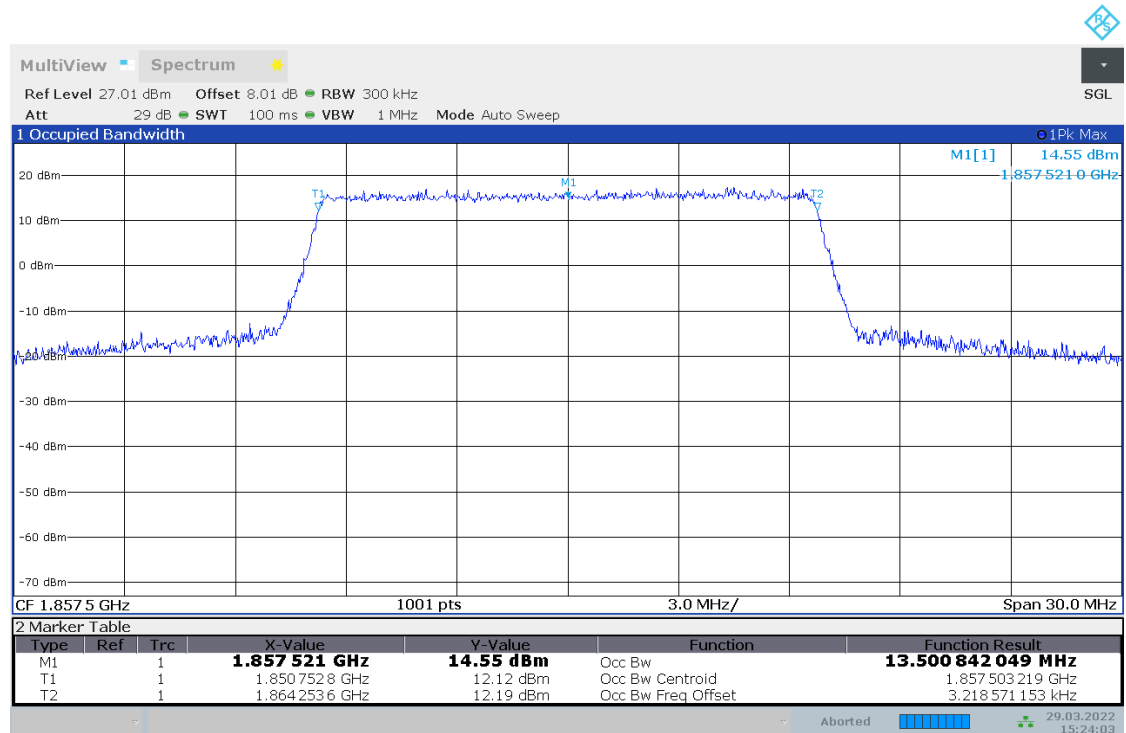
4.2.48 TM3_10MHZ_HCH_RB50#0



4.2.49 TM3_15MHZ_LCH_RB75#0

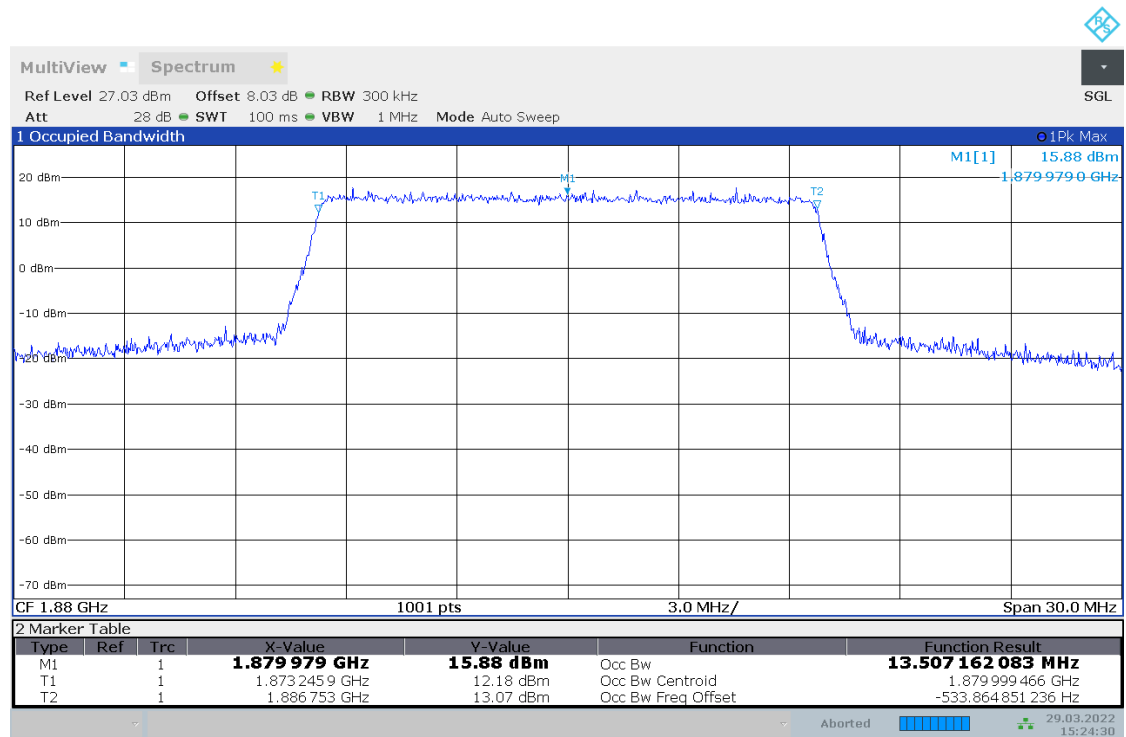
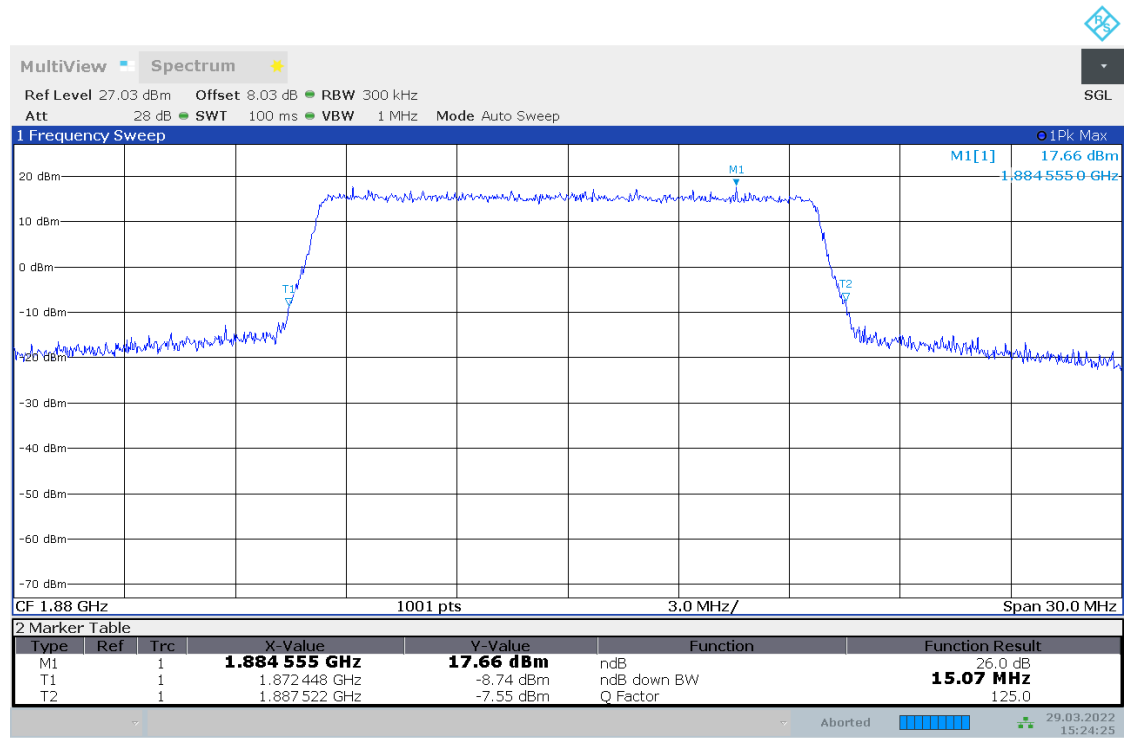


15:23:58 29.03.2022

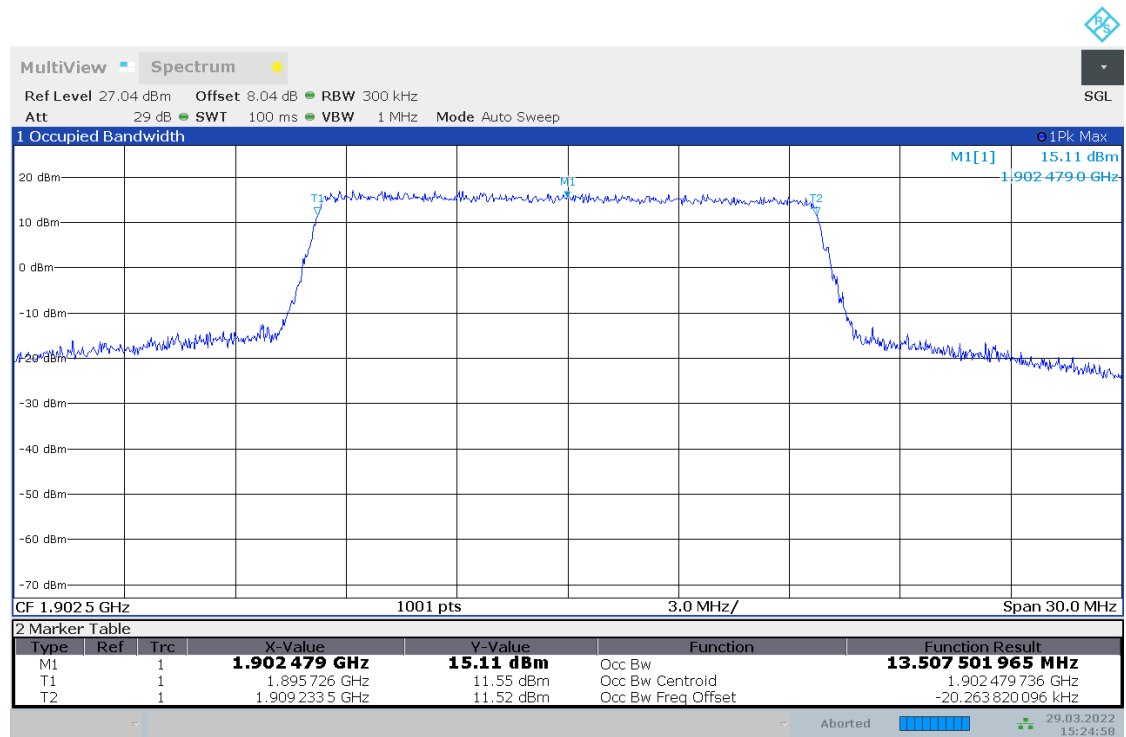
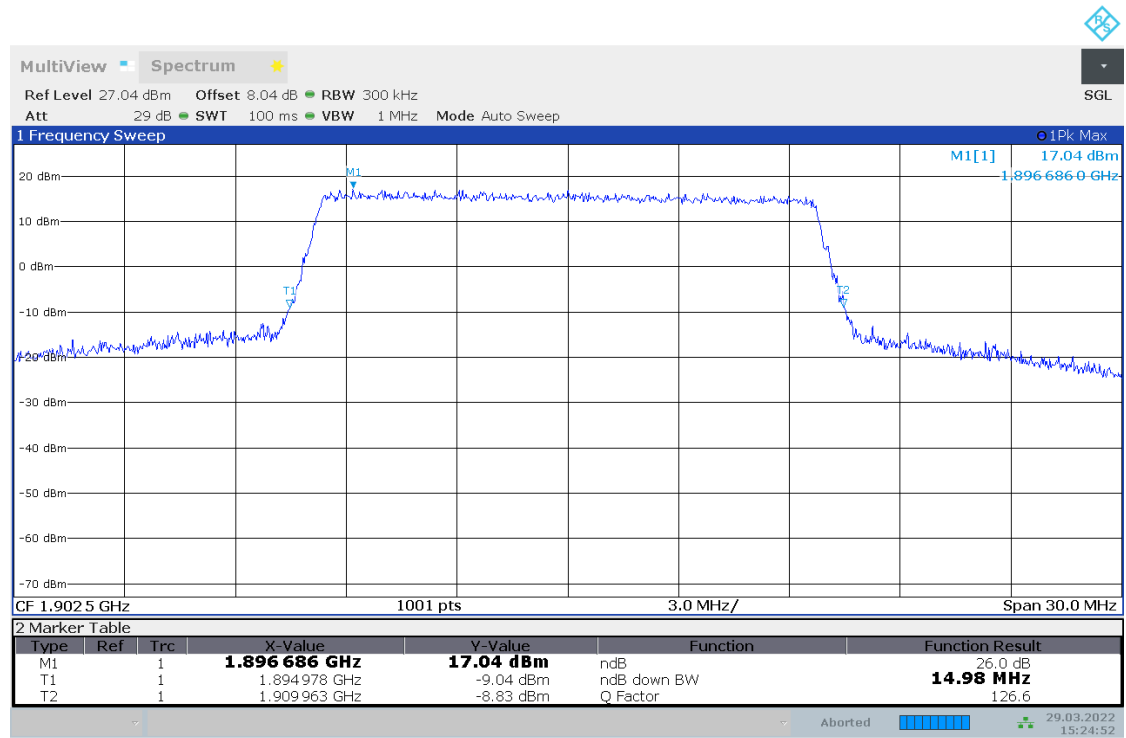


15:24:03 29.03.2022

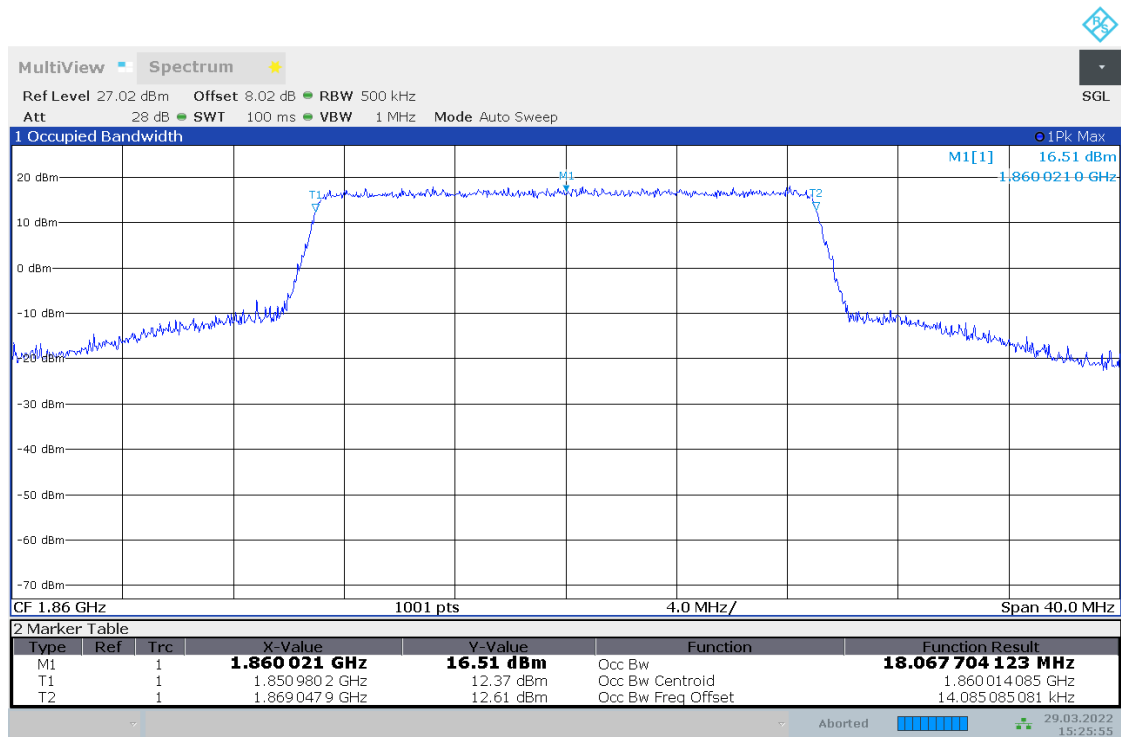
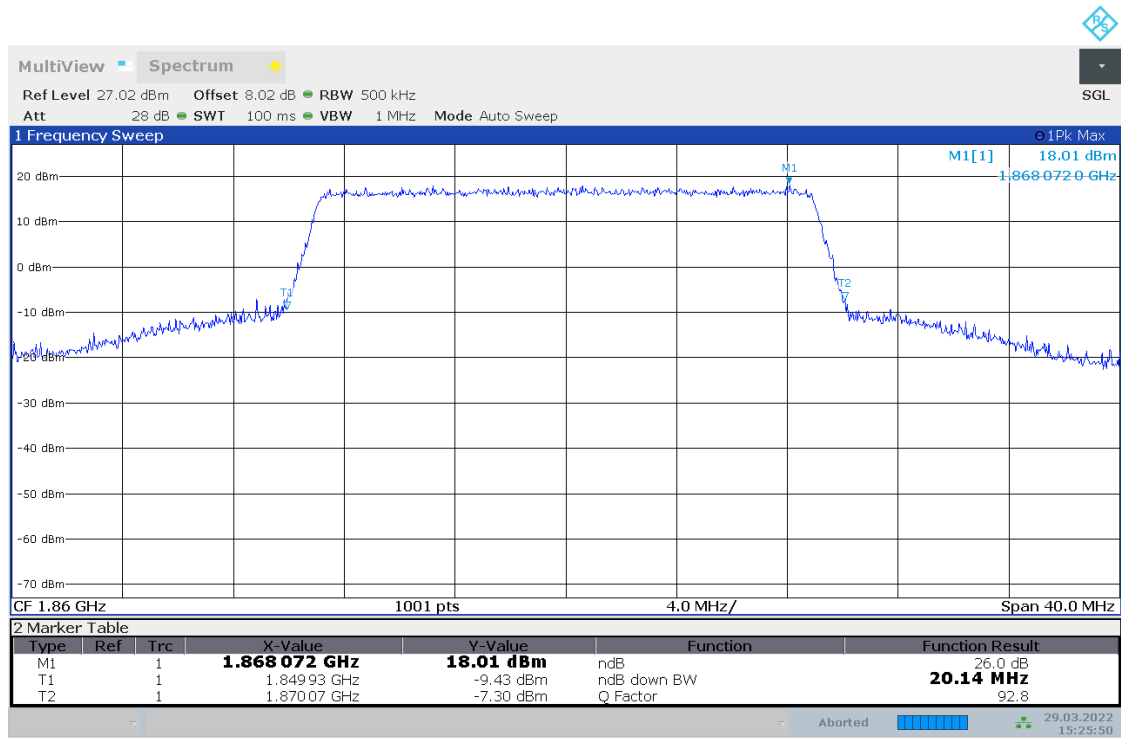
4.2.50 TM3_15MHZ_MCH_RB75#0



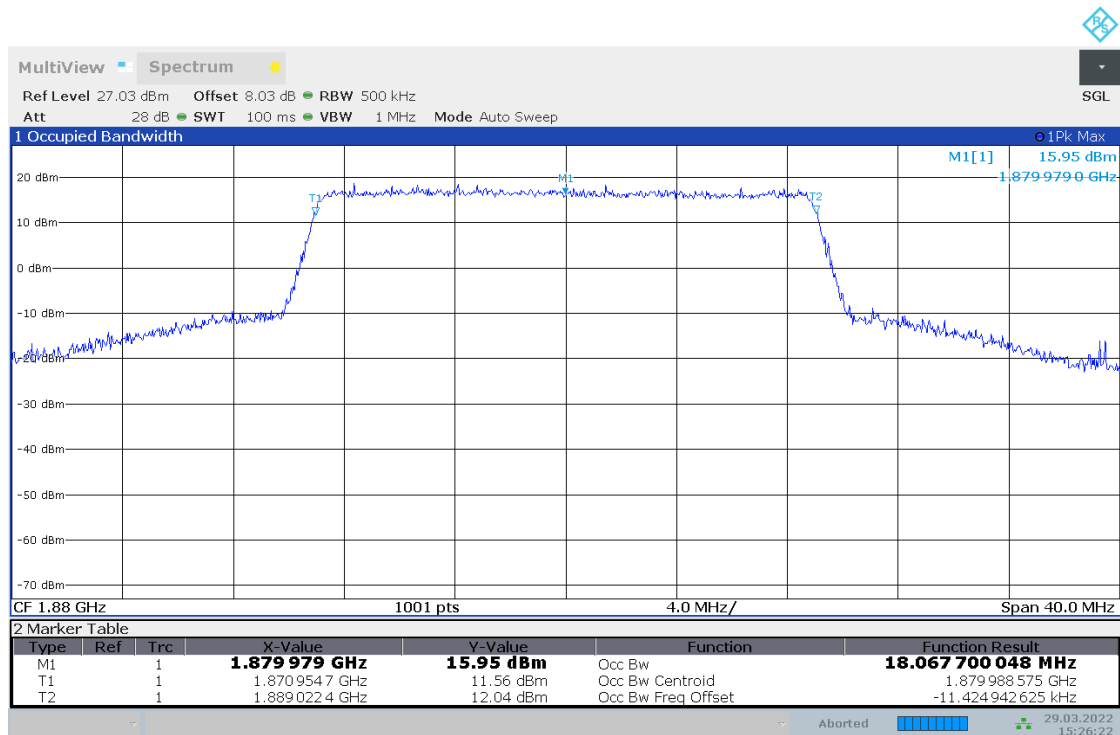
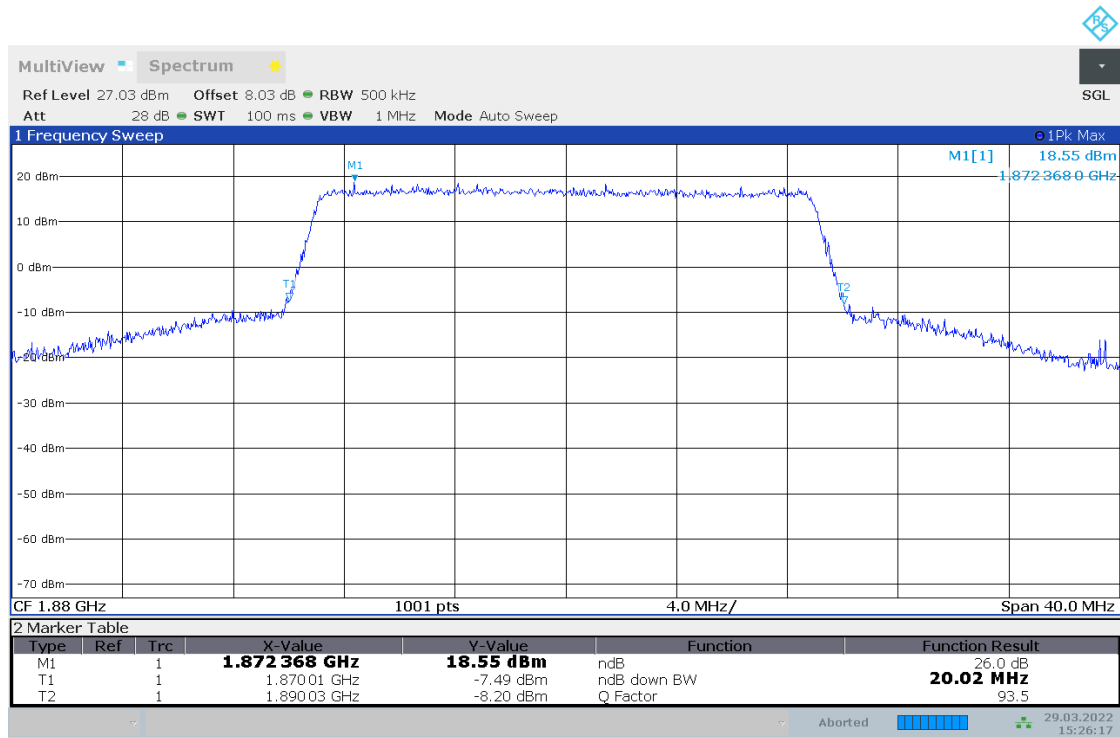
4.2.51 TM3_15MHZ_HCH_RB75#0



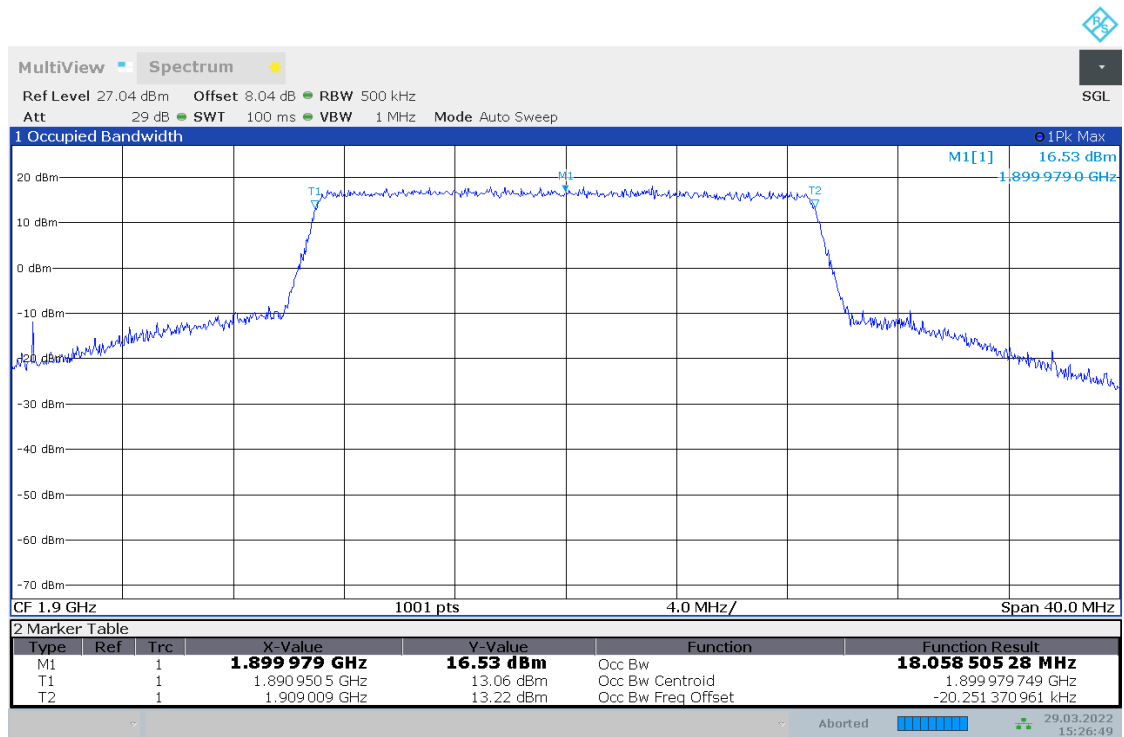
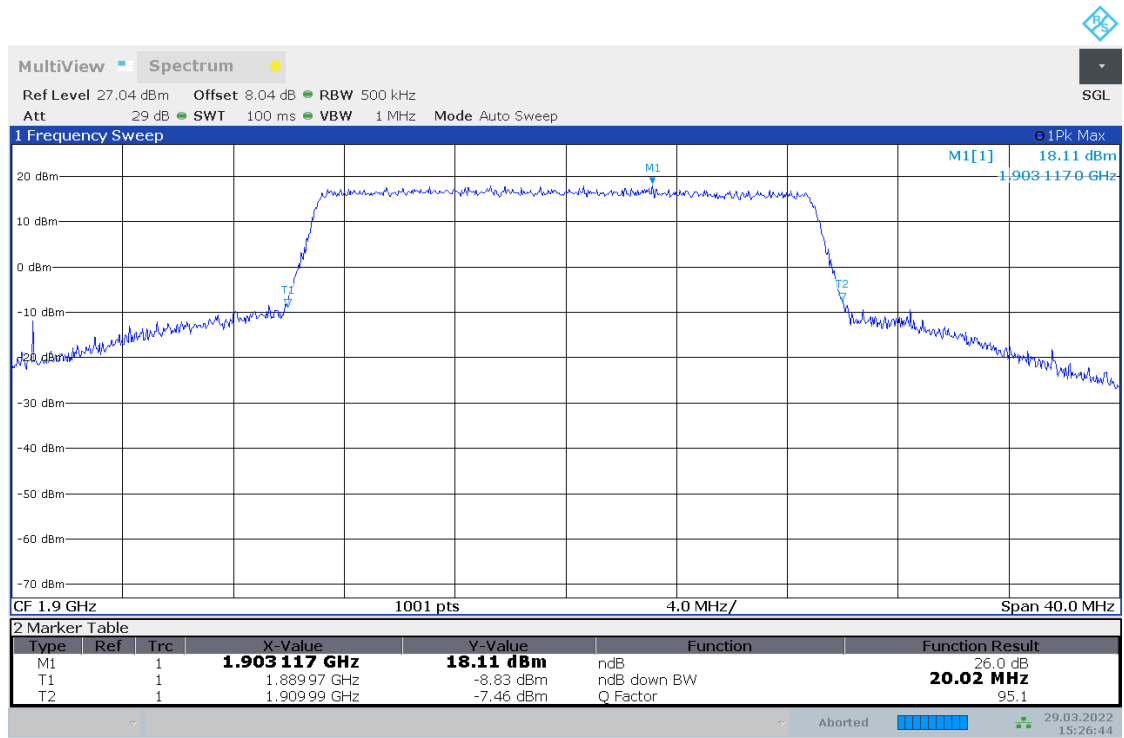
4.2.52 TM3_20MHZ_LCH_RB100#0



4.2.53 TM3_20MHZ_MCH_RB100#0



4.2.54 TM3_20MHZ_HCH_RB100#0



5. APPENDIX E - BAND EDGES COMPLIANCE

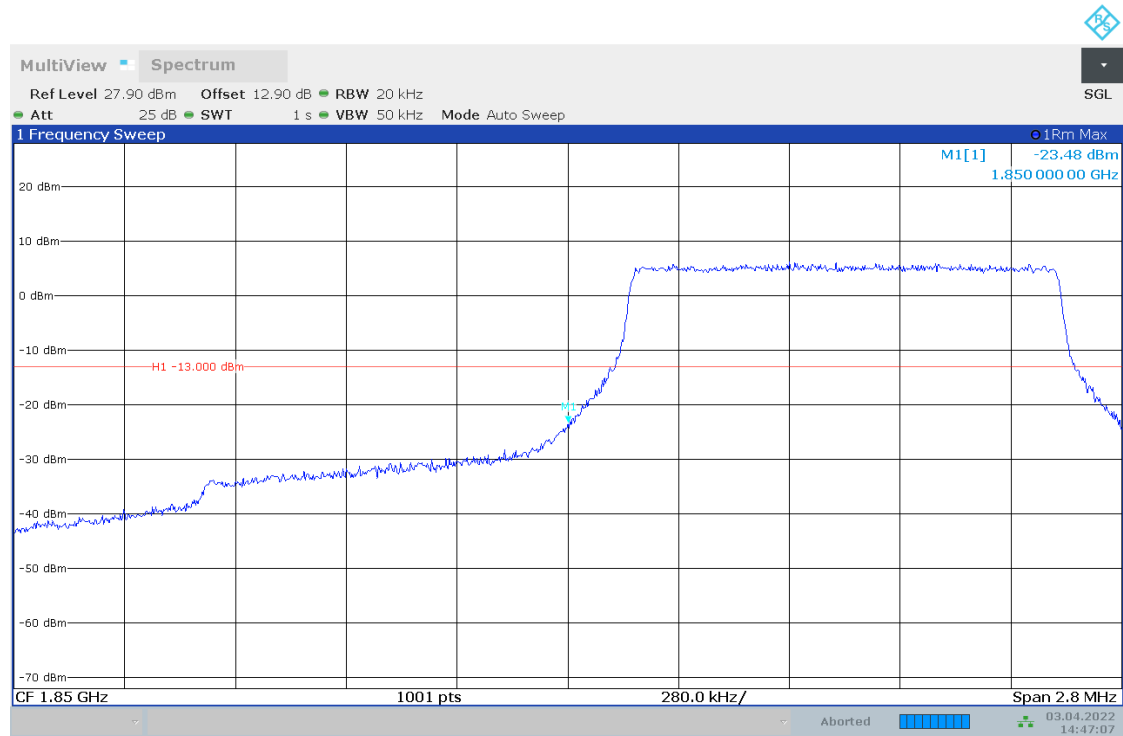
5.1 TEST RESULTS

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

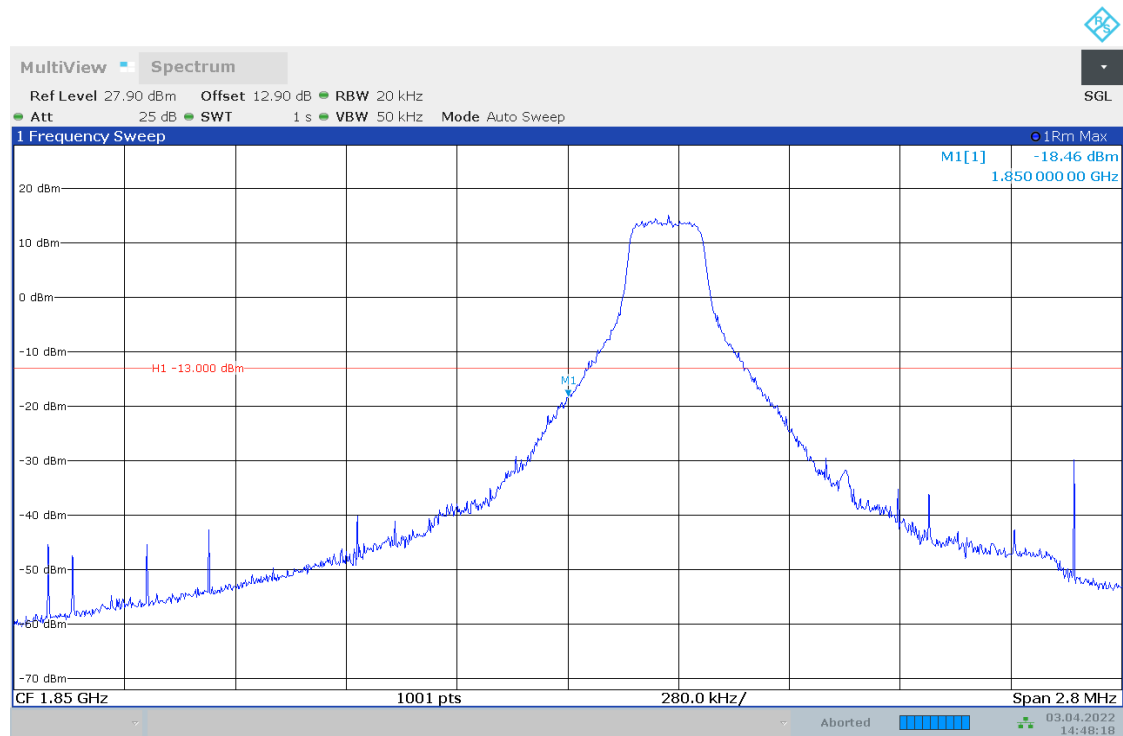
Band Edges Compliance					
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Verdict
TM3	1.4	LCH	RB6#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#5	64QAM	PASS
		HCH	RB6#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#5	64QAM	PASS
	5	LCH	RB25#0	64QAM	PASS
			RB1#0	64QAM	PASS
			RB1#24	64QAM	PASS
		HCH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

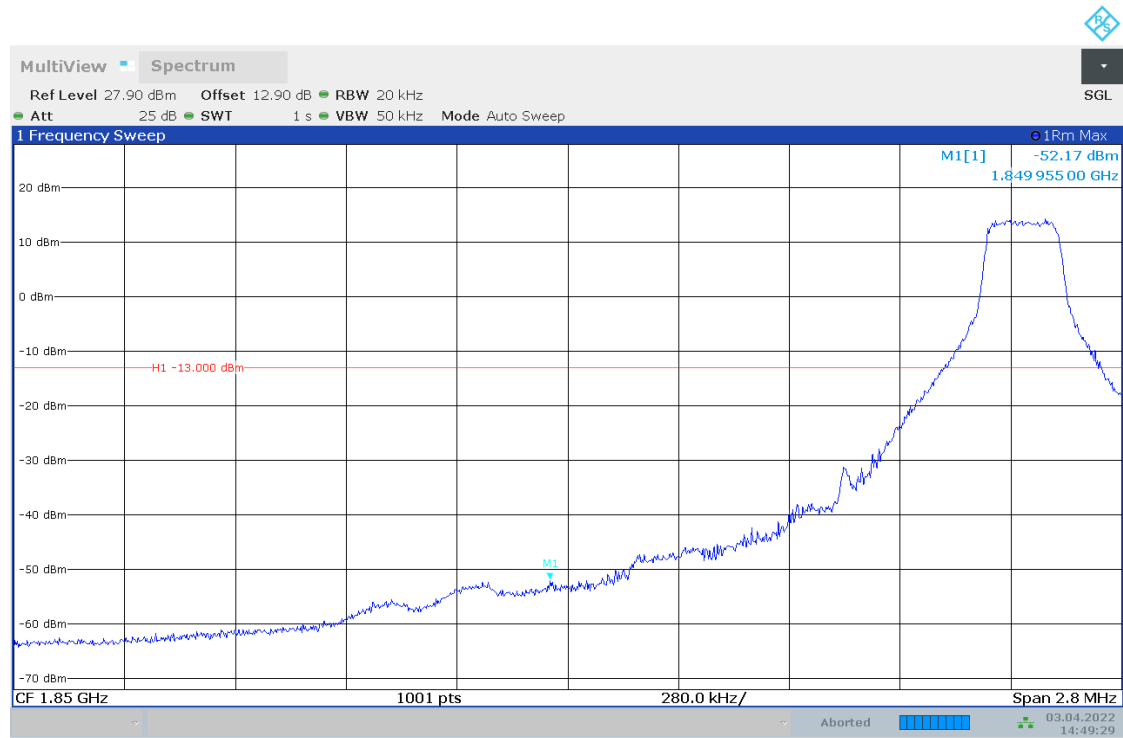
5.2.1 TM1_1.4MHZ_LCH_RB6#0



5.2.2 TM1_1.4MHZ_LCH_RB1#0

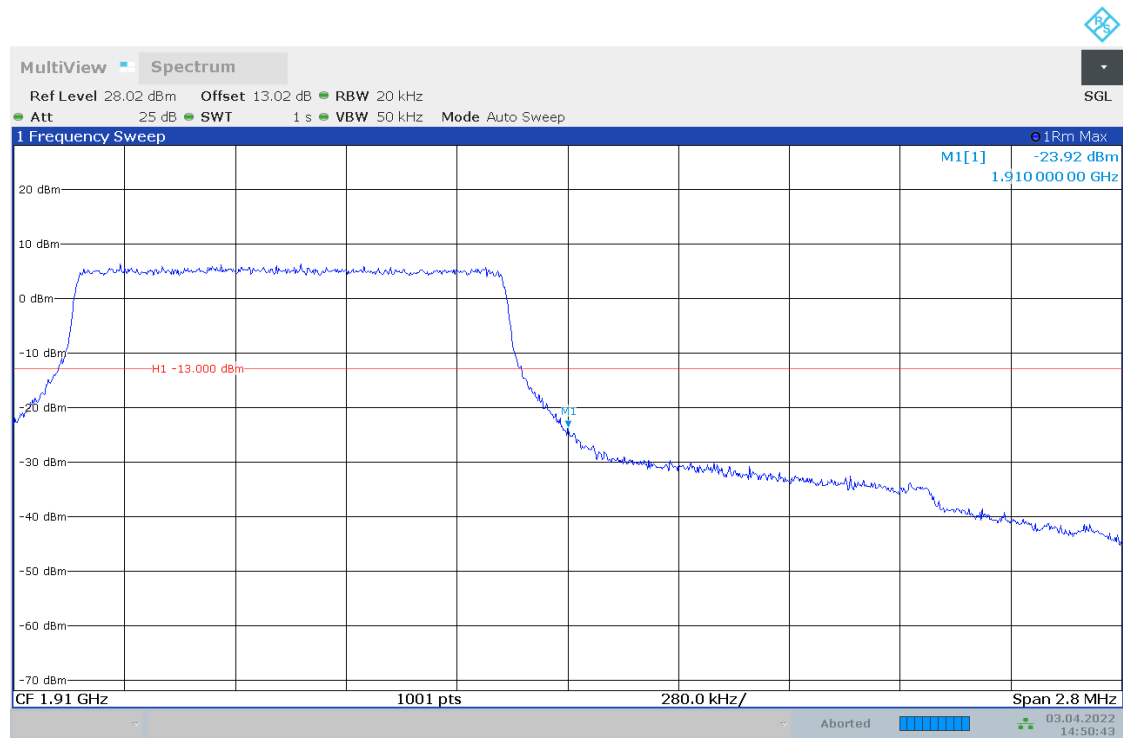


5.2.3 TM1_1.4MHZ_LCH_RB1#5



14:49:29 03.04.2022

5.2.4 TM1_1.4MHZ_HCH_RB6#0



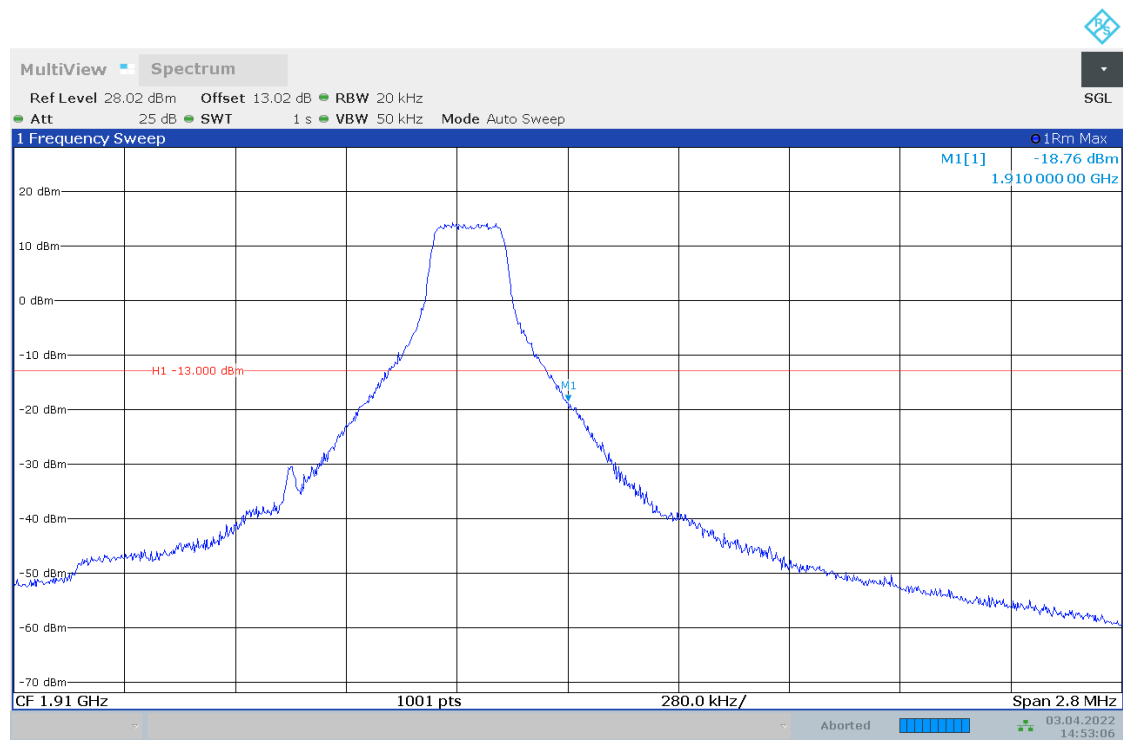
14:50:43 03.04.2022

5.2.5 TM1_1.4MHZ_HCH_RB1#0



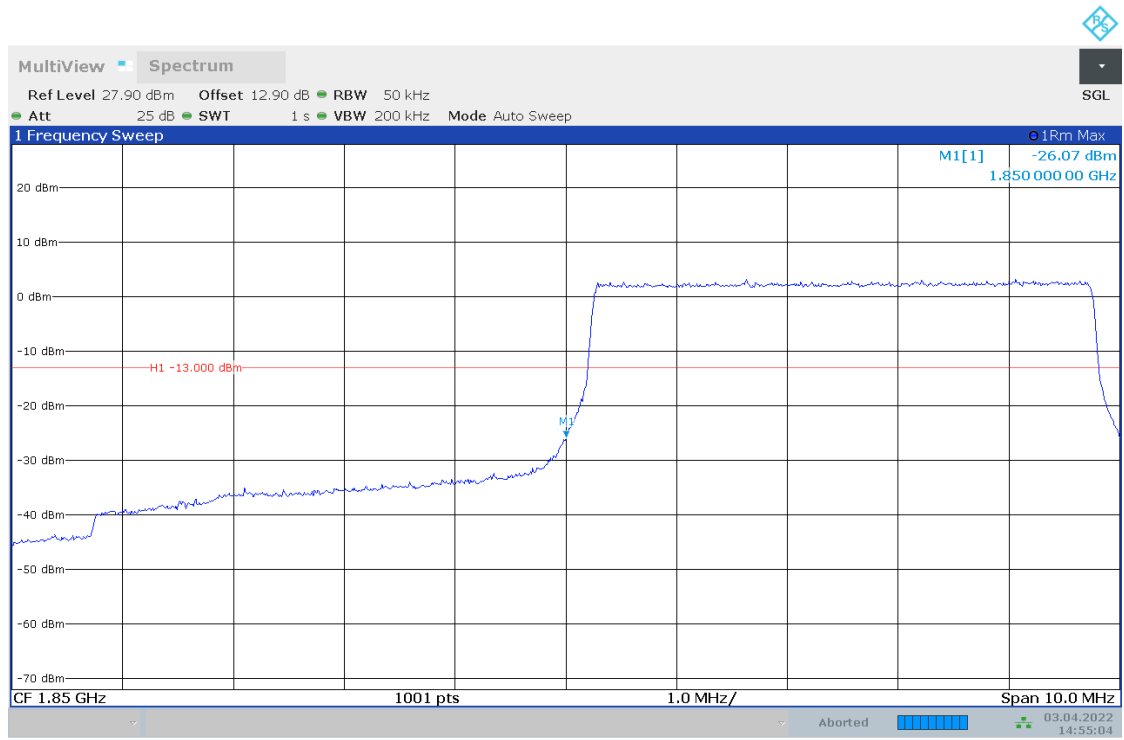
14:51:55 03.04.2022

5.2.6 TM1_1.4MHZ_HCH_RB1#5



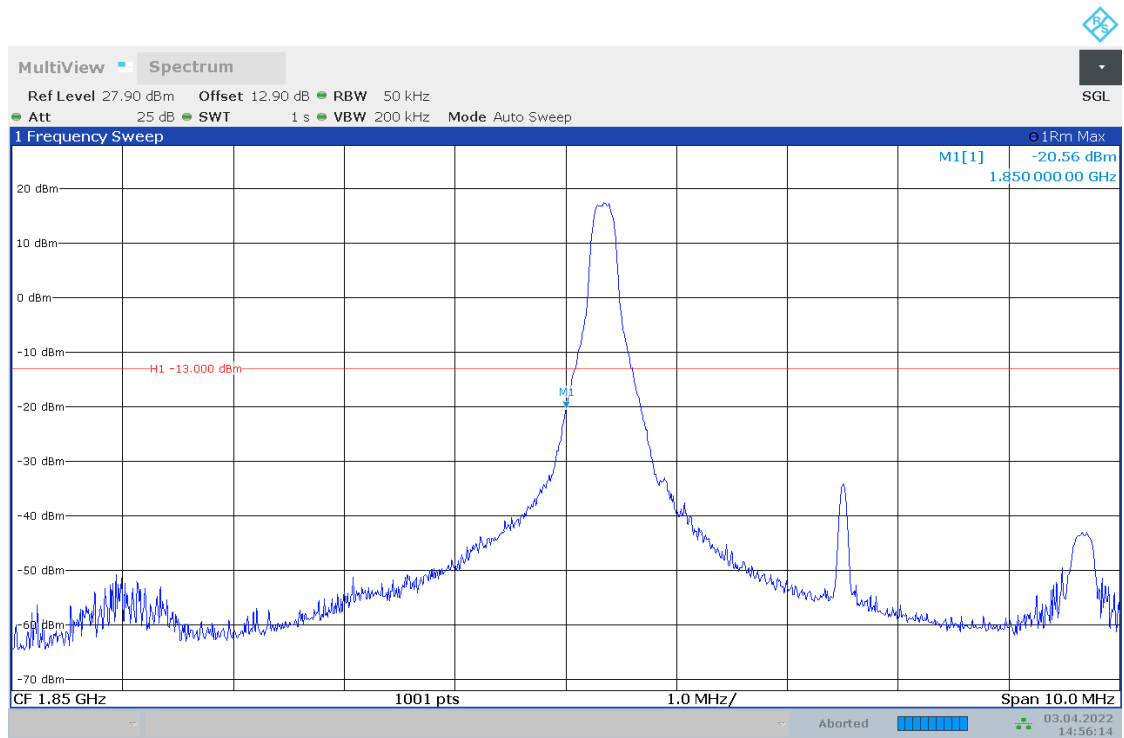
14:53:06 03.04.2022

5.2.7 TM1_5MHZ_LCH_RB25#0



14:55:04 03.04.2022

5.2.8 TM1_5MHZ_LCH_RB1#0

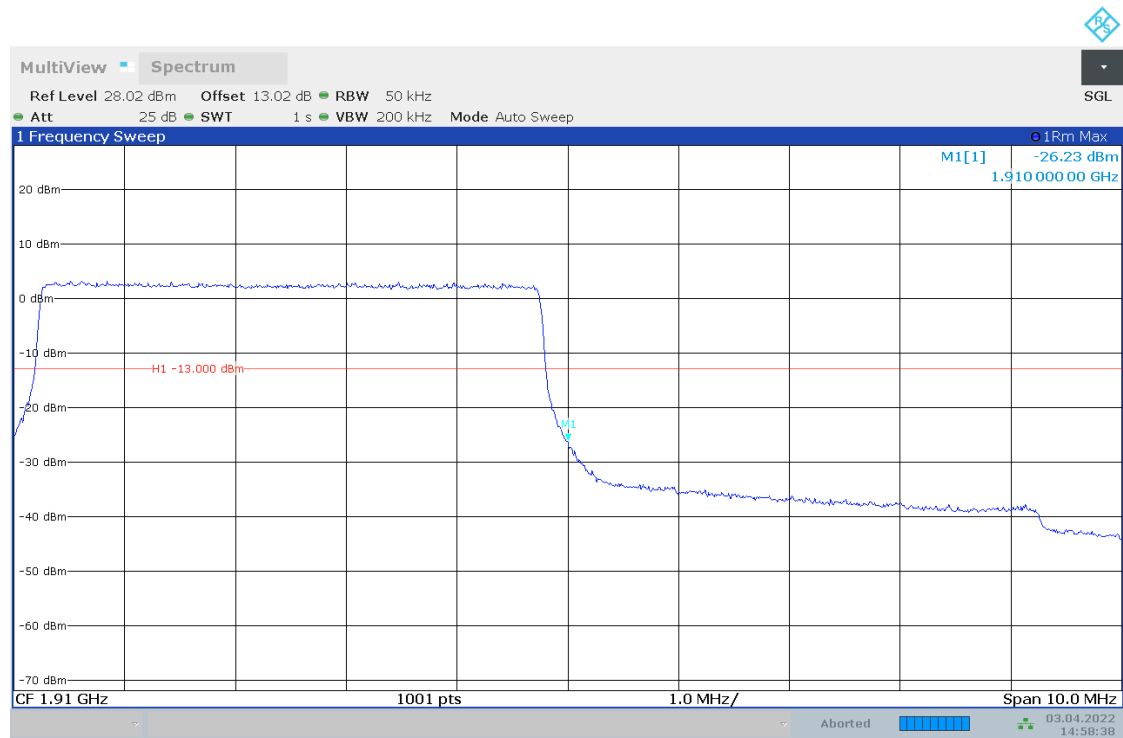


14:56:15 03.04.2022

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

