

Appendix for Band 66

Model: LGE-NX9

BTL-FCCP-3-2203G019

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1 APPENDIX A: EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

1.1 TEST RESULTS

Effective (Isotropic) Radiated Power of Transmitter									
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Measured [dBm]	Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
TM1	1.4	LCH	RB6#0	QPSK	22.94	-3.2	19.74	30	PASS
			RB1#0	QPSK	24.03	-3.2	20.83	30	PASS
			RB1#5	QPSK	24.11	-3.2	20.91	30	PASS
		MCH	RB6#0	QPSK	22.72	-3.2	19.52	30	PASS
			RB1#0	QPSK	23.75	-3.2	20.55	30	PASS
			RB1#5	QPSK	23.73	-3.2	20.53	30	PASS
		HCH	RB6#0	QPSK	22.64	-3.2	19.44	30	PASS
			RB1#0	QPSK	23.57	-3.2	20.37	30	PASS
			RB1#5	QPSK	23.64	-3.2	20.44	30	PASS
	5	LCH	RB25#0	QPSK	23.04	-3.2	19.84	30	PASS
			RB1#0	QPSK	24.01	-3.2	20.81	30	PASS
			RB1#24	QPSK	23.95	-3.2	20.75	30	PASS
		MCH	RB25#0	QPSK	22.83	-3.2	19.63	30	PASS
			RB1#0	QPSK	23.85	-3.2	20.65	30	PASS
			RB1#24	QPSK	23.77	-3.2	20.57	30	PASS
		HCH	RB25#0	QPSK	22.65	-3.2	19.45	30	PASS
			RB1#0	QPSK	23.70	-3.2	20.50	30	PASS
			RB1#24	QPSK	23.67	-3.2	20.47	30	PASS
	20	LCH	RB100#0	QPSK	22.83	-3.2	19.63	30	PASS
			RB1#0	QPSK	23.93	-3.2	20.73	30	PASS
			RB1#99	QPSK	23.70	-3.2	20.50	30	PASS
		MCH	RB100#0	QPSK	22.67	-3.2	19.47	30	PASS
			RB1#0	QPSK	23.68	-3.2	20.48	30	PASS
			RB1#99	QPSK	23.49	-3.2	20.29	30	PASS
		HCH	RB100#0	QPSK	22.56	-3.2	19.36	30	PASS
			RB1#0	QPSK	23.62	-3.2	20.42	30	PASS
			RB1#99	QPSK	23.38	-3.2	20.18	30	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	21.99	-3.2	18.79	30	PASS
			RB1#0	16QAM	23.08	-3.2	19.88	30	PASS
			RB1#5	16QAM	23.12	-3.2	19.92	30	PASS
		MCH	RB6#0	16QAM	21.82	-3.2	18.62	30	PASS
			RB1#0	16QAM	23.03	-3.2	19.83	30	PASS
			RB1#5	16QAM	23.06	-3.2	19.86	30	PASS
		HCH	RB6#0	16QAM	21.69	-3.2	18.49	30	PASS
			RB1#0	16QAM	22.75	-3.2	19.55	30	PASS
			RB1#5	16QAM	22.72	-3.2	19.52	30	PASS
	5	LCH	RB25#0	16QAM	22.06	-3.2	18.86	30	PASS
			RB1#0	16QAM	23.44	-3.2	20.24	30	PASS
			RB1#24	16QAM	23.44	-3.2	20.24	30	PASS
		MCH	RB25#0	16QAM	21.83	-3.2	18.63	30	PASS
			RB1#0	16QAM	23.20	-3.2	20.00	30	PASS
			RB1#24	16QAM	23.20	-3.2	20.00	30	PASS
		HCH	RB25#0	16QAM	21.63	-3.2	18.43	30	PASS
			RB1#0	16QAM	23.14	-3.2	19.94	30	PASS
			RB1#24	16QAM	23.12	-3.2	19.92	30	PASS
	20	LCH	RB100#0	16QAM	21.89	-3.2	18.69	30	PASS
			RB1#0	16QAM	23.33	-3.2	20.13	30	PASS
			RB1#99	16QAM	23.20	-3.2	20.00	30	PASS
		MCH	RB100#0	16QAM	21.70	-3.2	18.50	30	PASS
			RB1#0	16QAM	23.27	-3.2	20.07	30	PASS
			RB1#99	16QAM	23.01	-3.2	19.81	30	PASS
		HCH	RB100#0	16QAM	21.59	-3.2	18.39	30	PASS
			RB1#0	16QAM	22.90	-3.2	19.70	30	PASS
			RB1#99	16QAM	22.79	-3.2	19.59	30	PASS

2 APPENDIX B: PEAK-TO-AVERAGE RATIO

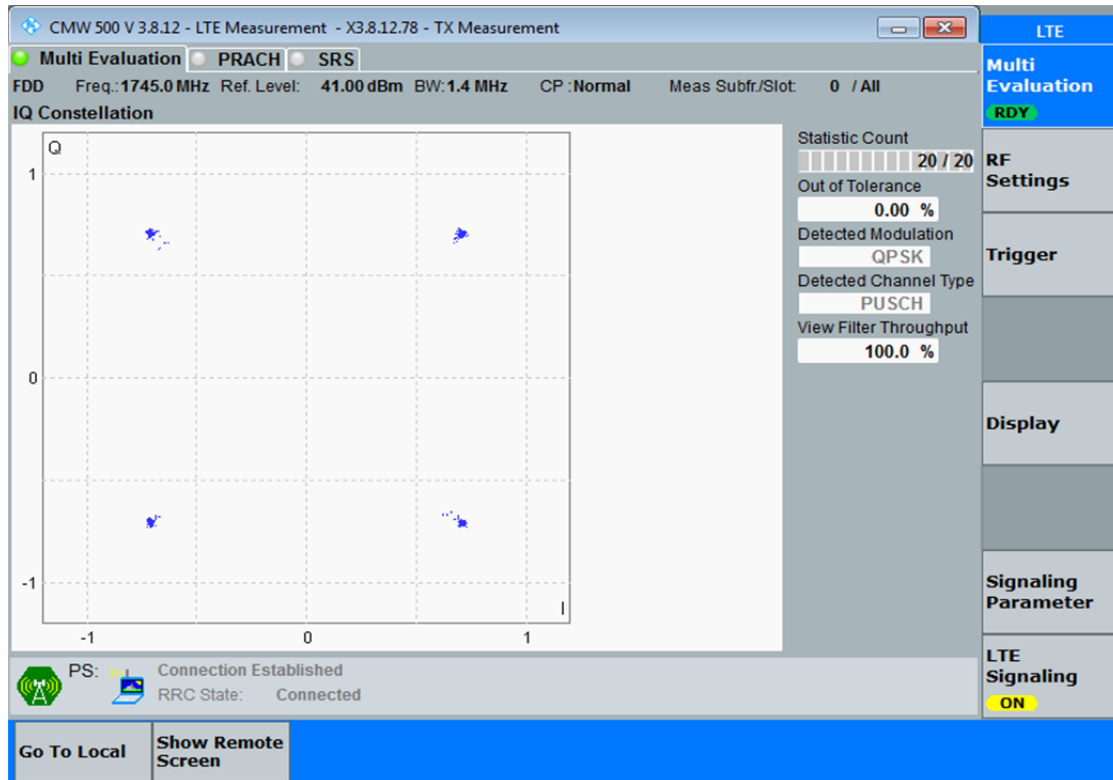
2.1 TEST RESULTS

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	4.65	13	PASS
			RB1#0	QPSK	3.59	13	PASS
			RB1#5	QPSK	3.61	13	PASS
	5		RB25#0	QPSK	5.26	13	PASS
			RB1#0	QPSK	3.61	13	PASS
			RB1#24	QPSK	3.64	13	PASS
	20		RB100#0	QPSK	5.43	13	PASS
			RB1#0	QPSK	3.46	13	PASS
			RB1#99	QPSK	3.58	13	PASS
TM2	1.4		RB6#0	16QAM	5.45	13	PASS
			RB1#0	16QAM	4.30	13	PASS
			RB1#5	16QAM	4.44	13	PASS
	5		RB25#0	16QAM	6.23	13	PASS
			RB1#0	16QAM	4.29	13	PASS
			RB1#24	16QAM	4.33	13	PASS
	20		RB100#0	16QAM	6.38	13	PASS
			RB1#0	16QAM	3.98	13	PASS
			RB1#99	16QAM	4.23	13	PASS
TM3	1.4		RB6#0	64QAM	6.14	13	PASS
			RB1#0	64QAM	5.15	13	PASS
			RB1#5	64QAM	5.36	13	PASS
	5		RB25#0	64QAM	6.84	13	PASS
			RB1#0	64QAM	5.31	13	PASS
			RB1#24	64QAM	5.24	13	PASS
	20		RB100#0	64QAM	7.13	13	PASS
			RB1#0	64QAM	5.07	13	PASS
			RB1#99	64QAM	5.14	13	PASS

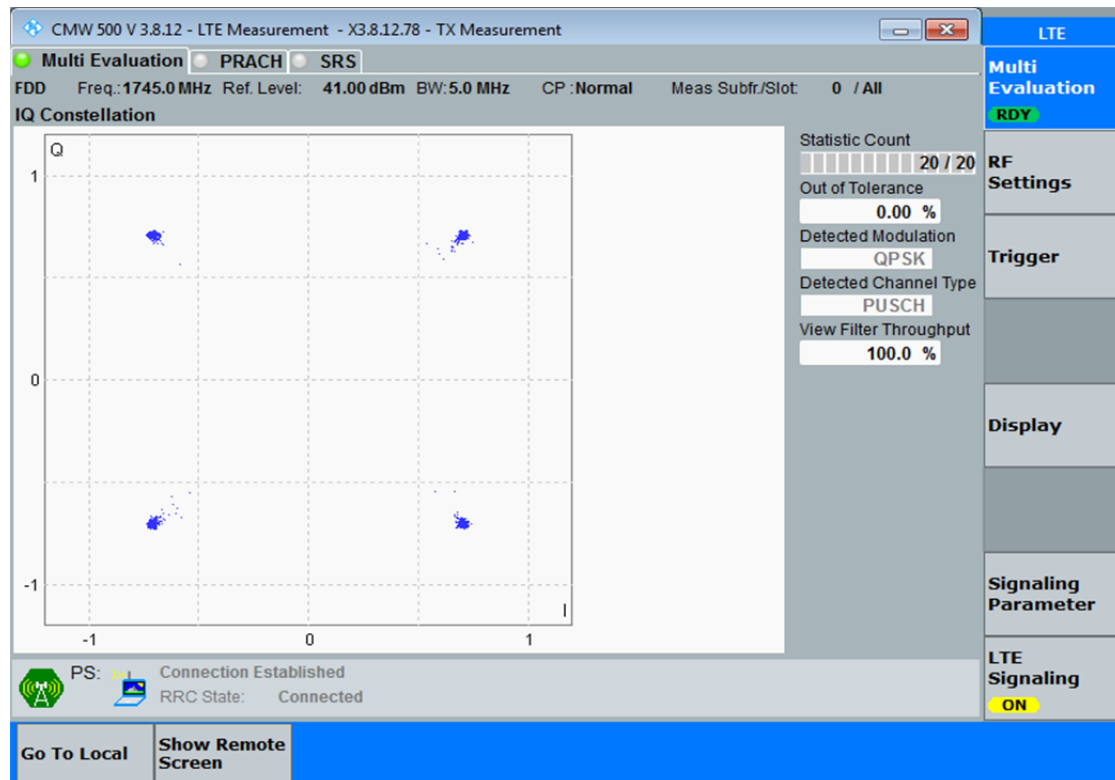
3 APPENDIX C: MODULATION CHARACTERISTICS

3.1 TEST PLOTS

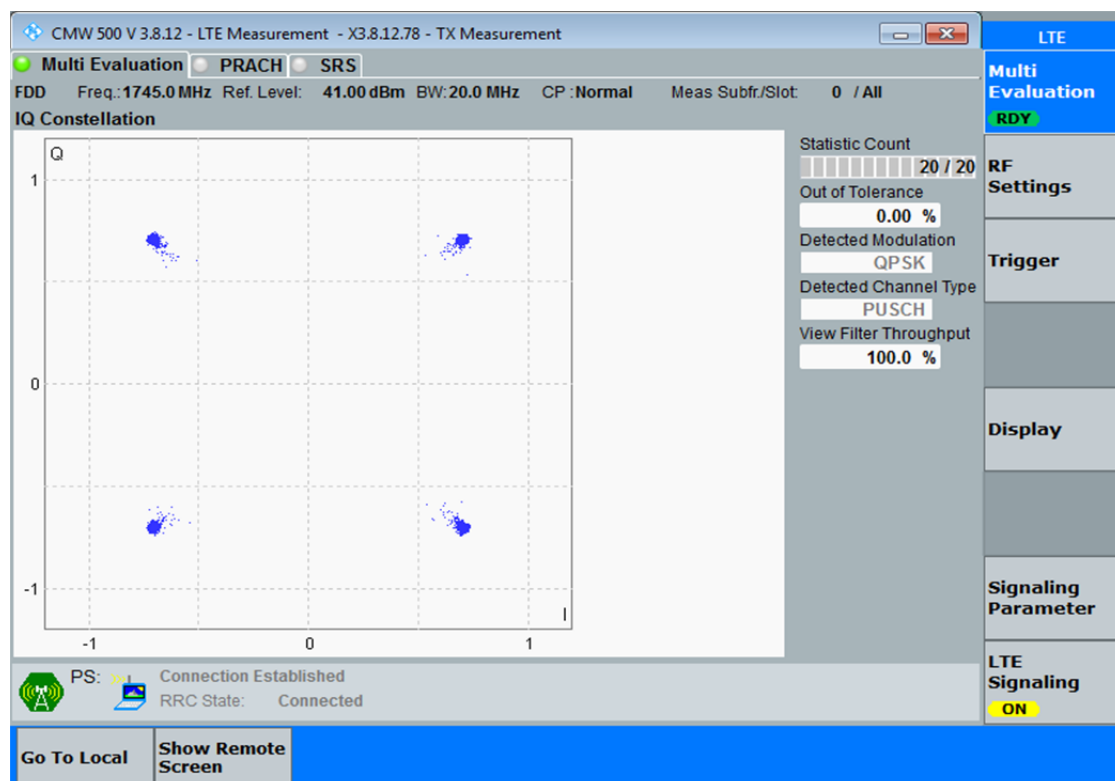
3.1.1 TM1_1.4MHZ_MCH_RB6#0



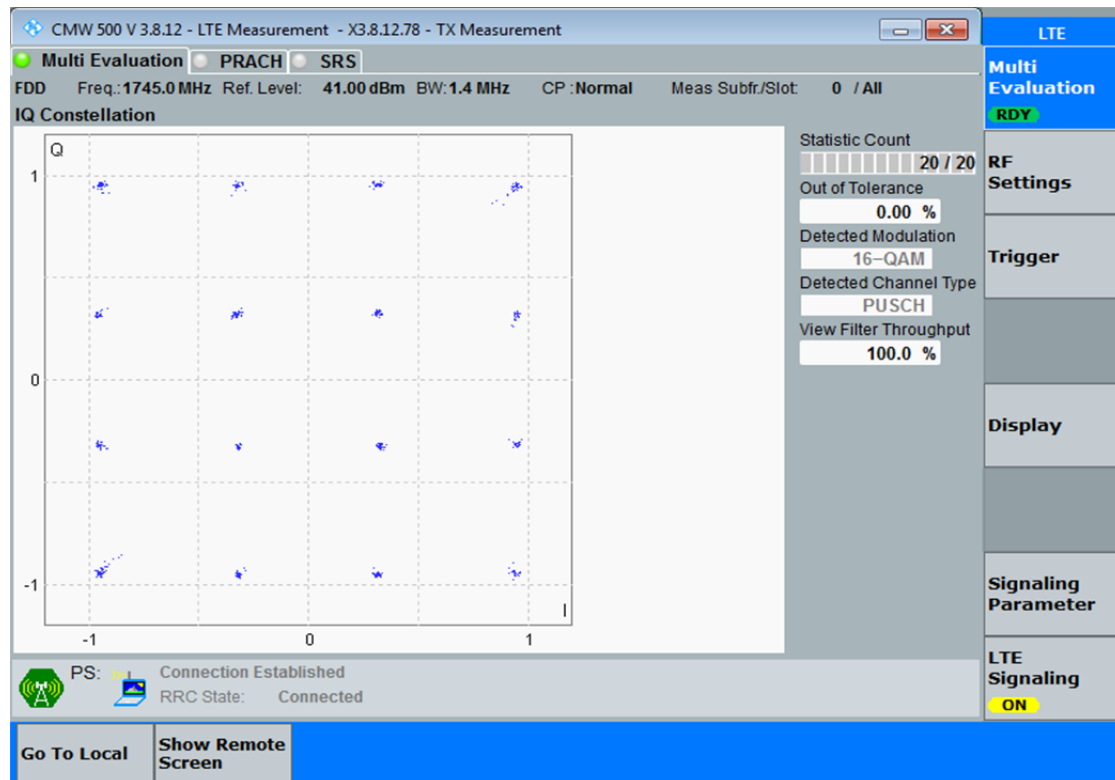
3.1.2 TM1_5MHZ_MCH_RB25#0



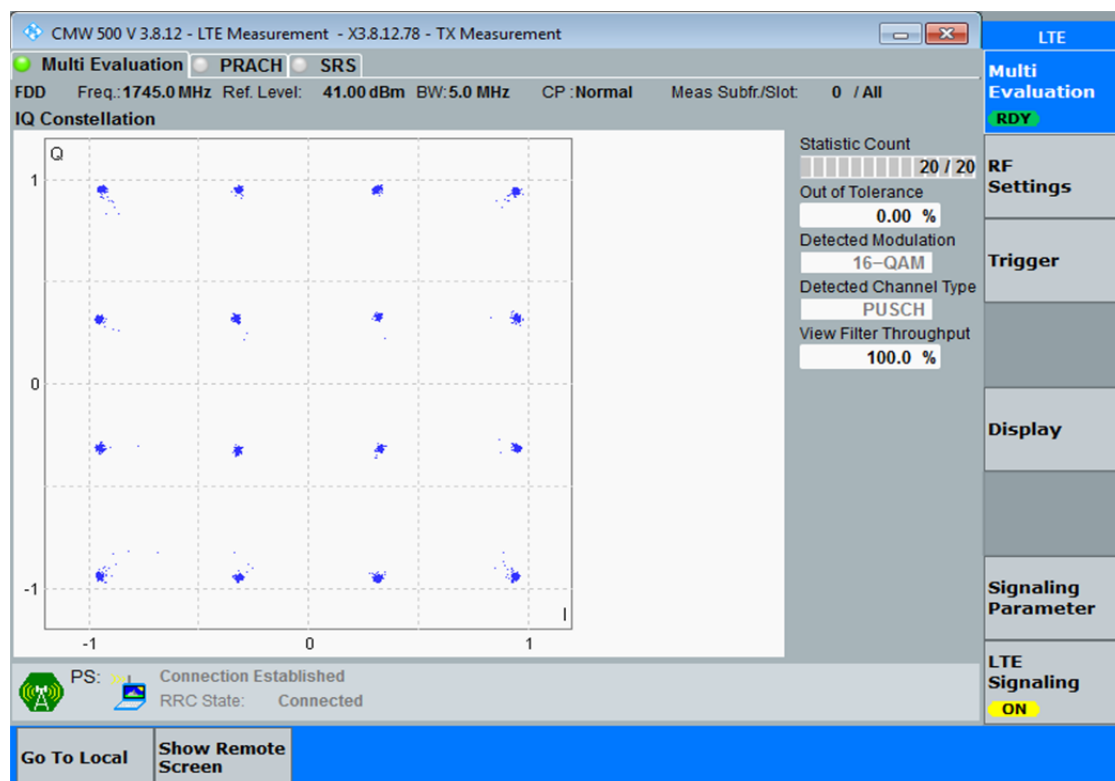
3.1.3 TM1_20MHZ_MCH_RB100#0



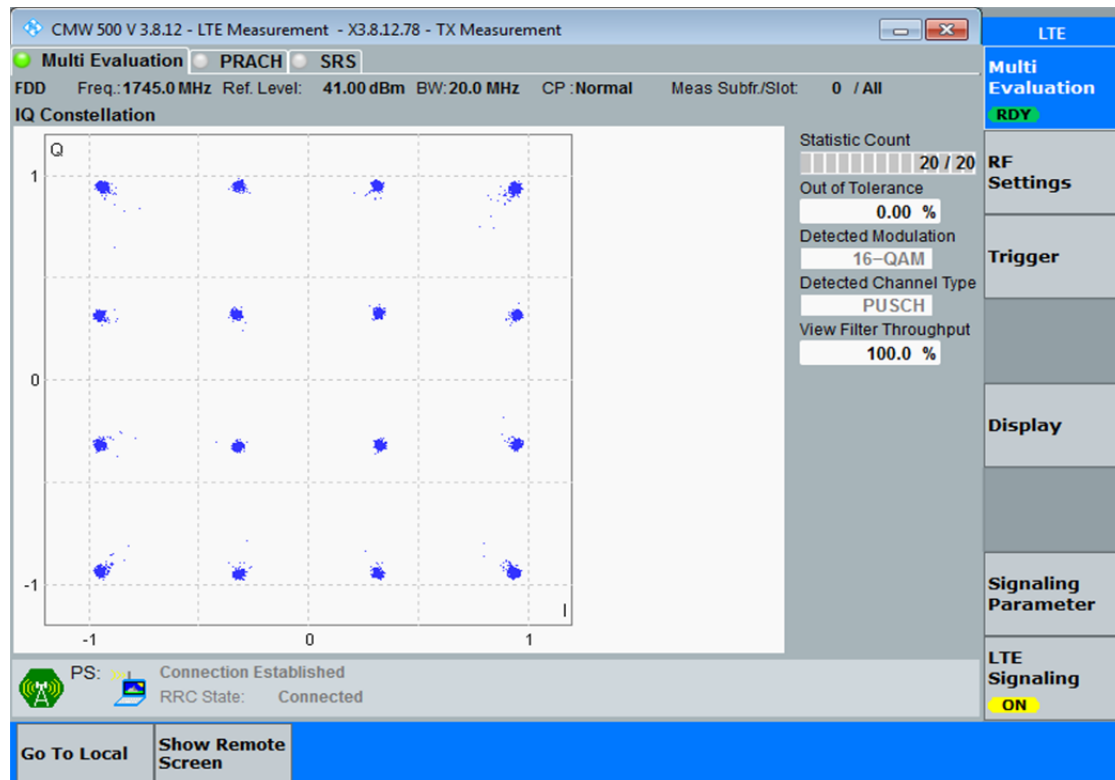
3.1.4 TM2_1.4MHZ_MCH_RB6#0



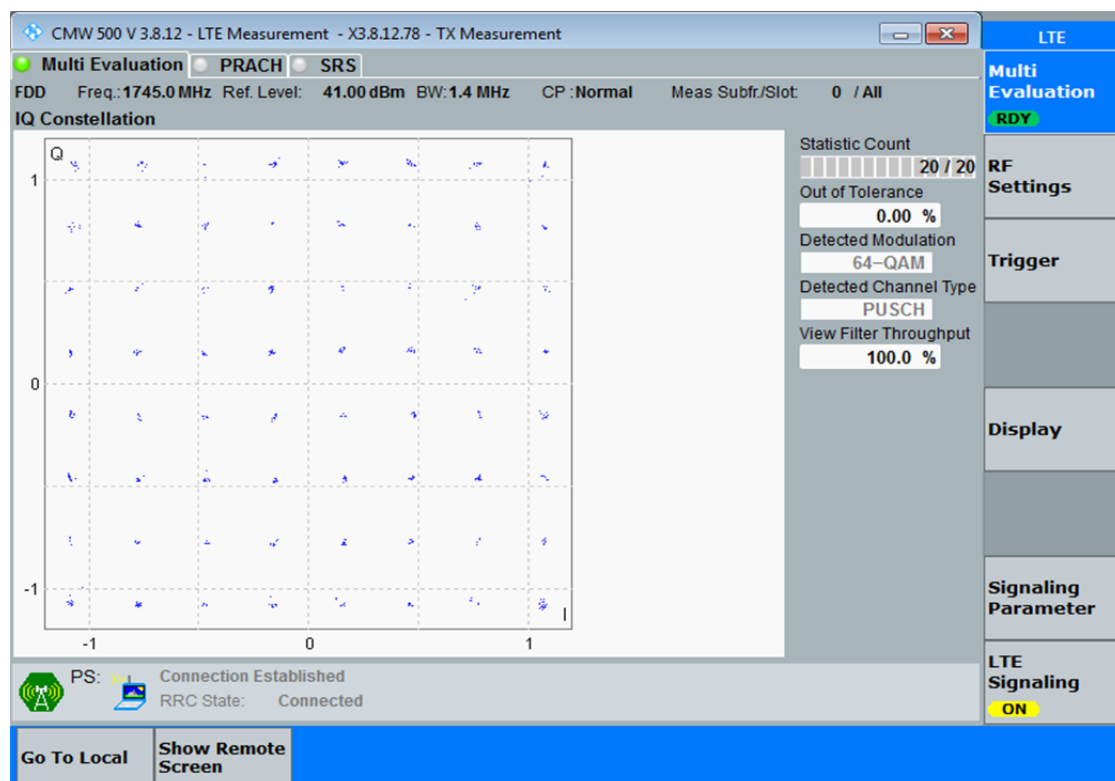
3.1.5 TM2_5MHZ_MCH_RB25#0



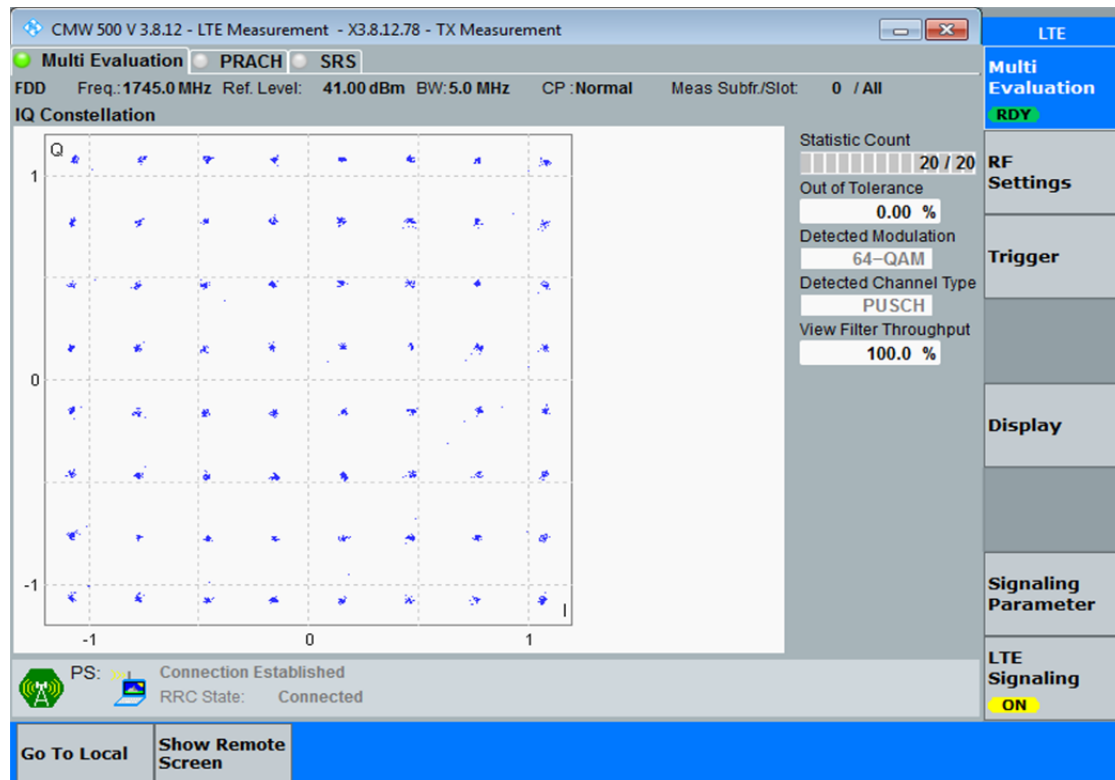
3.1.6 TM2_20MHZ_MCH_RB100#0



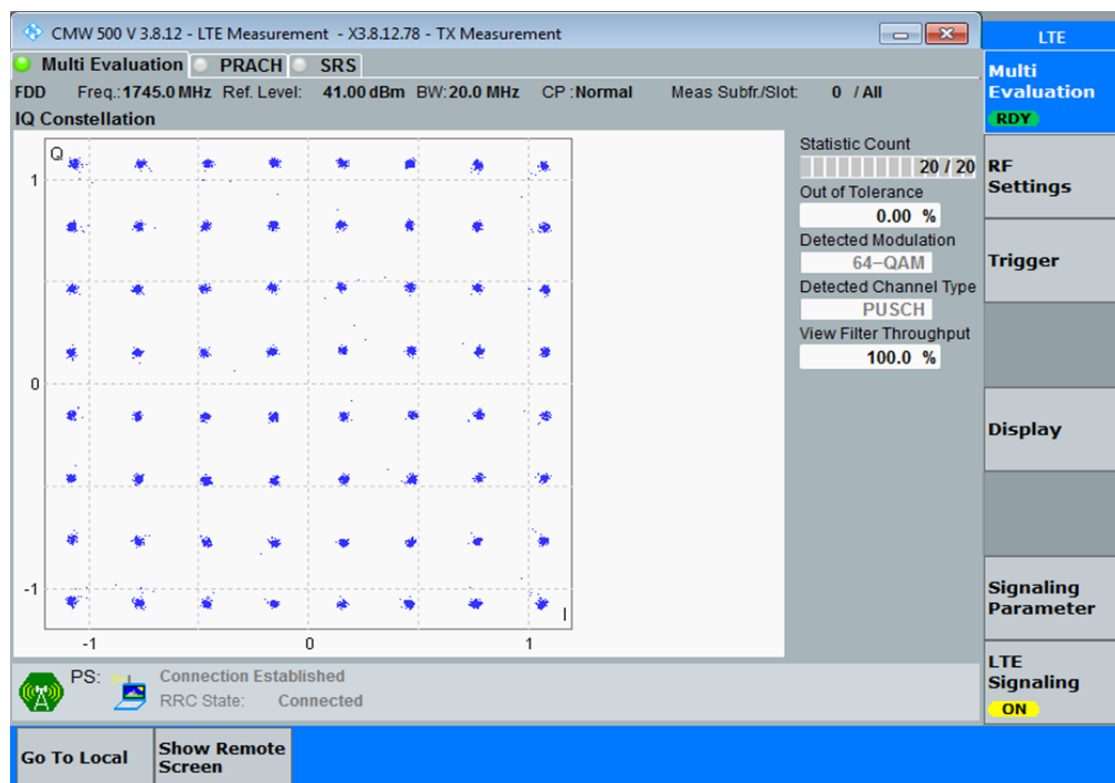
3.1.7 TM3_1.4MHZ_MCH_RB6#0



3.1.8 TM3_5MHZ_MCH_RB25#0



3.1.9 TM3_20MHZ_MCH_RB100#0



4 APPENDIX D: OCCUPIED BANDWIDTH

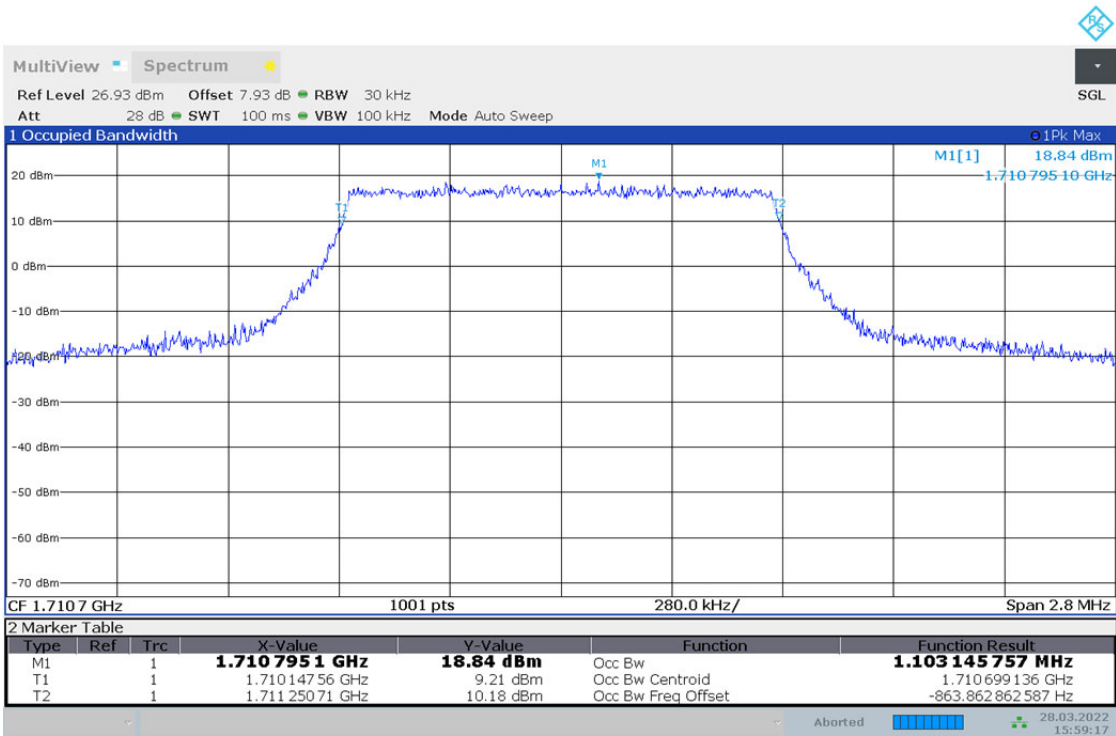
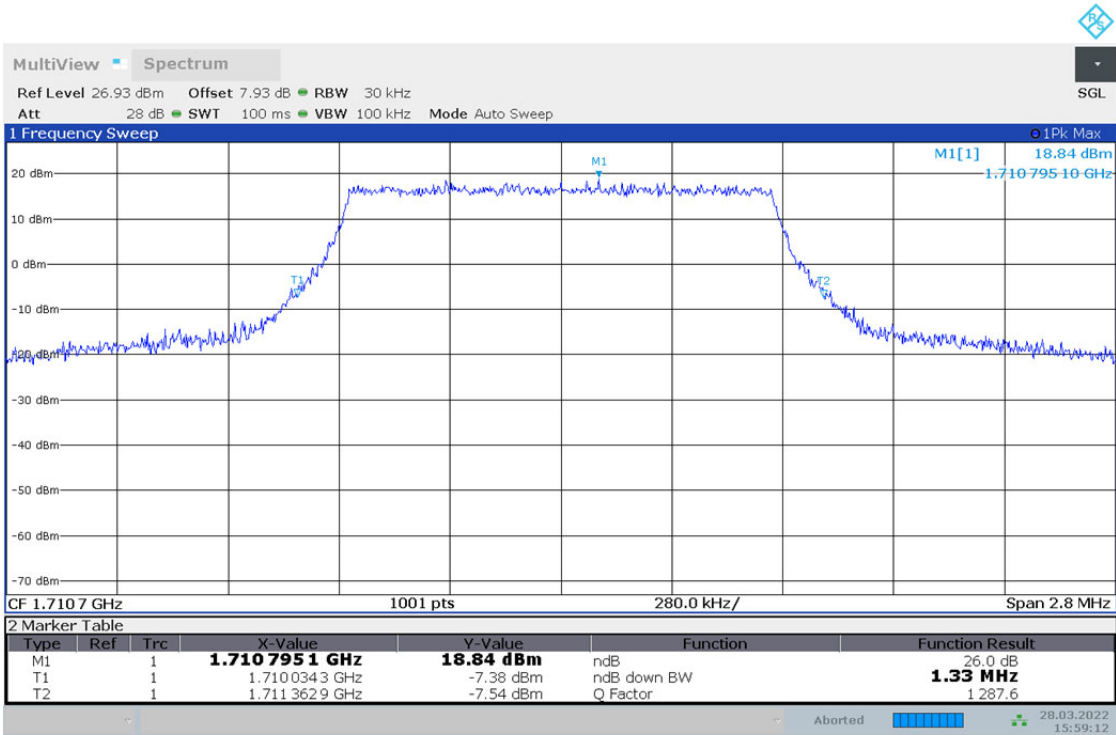
4.1 TEST RESULTS

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	1.35	PASS
		HCH	RB6#0	QPSK	1.11	1.35	PASS
	3	LCH	RB15#0	QPSK	2.71	3.04	PASS
		MCH	RB15#0	QPSK	2.70	3.04	PASS
		HCH	RB15#0	QPSK	2.70	3.04	PASS
	5	LCH	RB25#0	QPSK	4.53	5.17	PASS
		MCH	RB25#0	QPSK	4.52	5.16	PASS
		HCH	RB25#0	QPSK	4.52	5.14	PASS
	10	LCH	RB50#0	QPSK	9.00	10.03	PASS
		MCH	RB50#0	QPSK	9.00	10.07	PASS
		HCH	RB50#0	QPSK	9.00	10.09	PASS
	15	LCH	RB75#0	QPSK	13.49	14.96	PASS
		MCH	RB75#0	QPSK	13.51	15.07	PASS
		HCH	RB75#0	QPSK	13.47	15.04	PASS
	20	LCH	RB100#0	QPSK	18.07	20.06	PASS
		MCH	RB100#0	QPSK	18.06	20.06	PASS
		HCH	RB100#0	QPSK	18.06	20.06	PASS

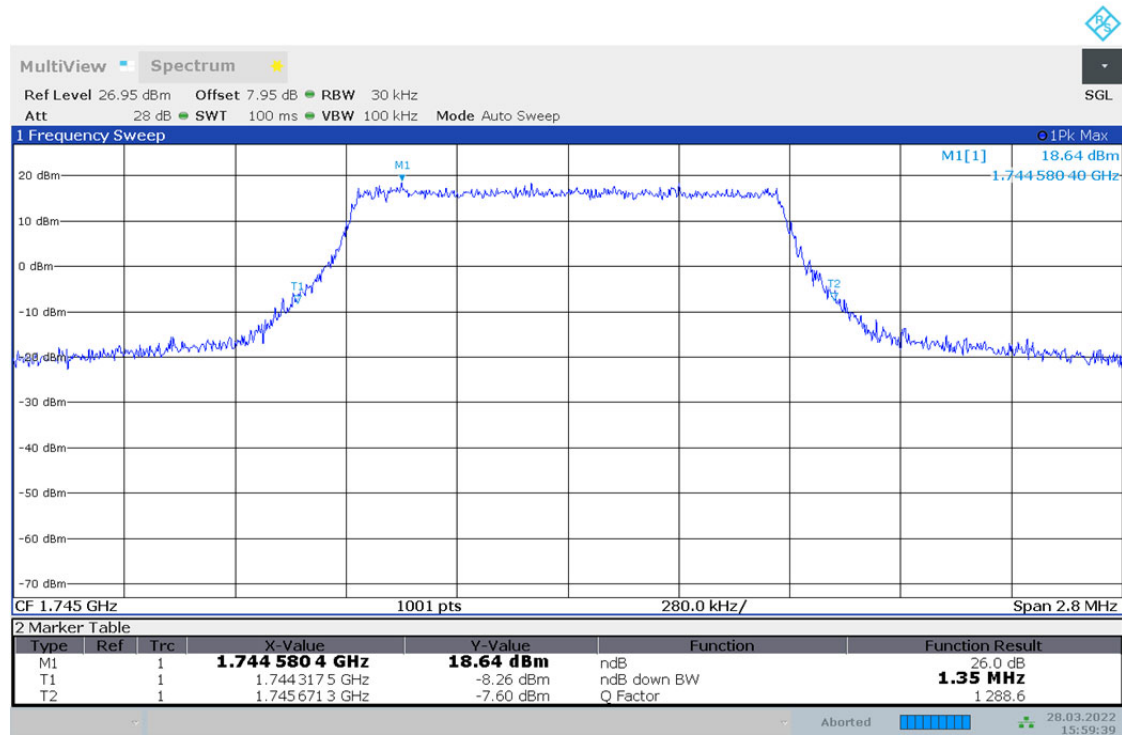
Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM2	1.4	LCH	RB6#0	16QAM	1.11	1.36	PASS
		MCH	RB6#0	16QAM	1.11	1.38	PASS
		HCH	RB6#0	16QAM	1.11	1.34	PASS
	3	LCH	RB15#0	16QAM	2.70	3.02	PASS
		MCH	RB15#0	16QAM	2.70	3.06	PASS
		HCH	RB15#0	16QAM	2.71	3.06	PASS
	5	LCH	RB25#0	16QAM	4.52	5.13	PASS
		MCH	RB25#0	16QAM	4.52	5.09	PASS
		HCH	RB25#0	16QAM	4.52	5.12	PASS
	10	LCH	RB50#0	16QAM	9.01	10.05	PASS
		MCH	RB50#0	16QAM	9.01	10.09	PASS
		HCH	RB50#0	16QAM	9.02	10.09	PASS
	15	LCH	RB75#0	16QAM	13.52	15.02	PASS
		MCH	RB75#0	16QAM	13.52	15.07	PASS
		HCH	RB75#0	16QAM	13.50	15.04	PASS
	20	LCH	RB100#0	16QAM	18.07	20.06	PASS
		MCH	RB100#0	16QAM	18.09	20.02	PASS
		HCH	RB100#0	16QAM	18.09	20.06	PASS
TM3	1.4	LCH	RB6#0	64QAM	1.11	1.34	PASS
		MCH	RB6#0	64QAM	1.11	1.37	PASS
		HCH	RB6#0	64QAM	1.11	1.38	PASS
	3	LCH	RB15#0	64QAM	2.70	3.04	PASS
		MCH	RB15#0	64QAM	2.71	3.04	PASS
		HCH	RB15#0	64QAM	2.70	3.03	PASS
	5	LCH	RB25#0	64QAM	4.53	5.16	PASS
		MCH	RB25#0	64QAM	4.52	5.17	PASS
		HCH	RB25#0	64QAM	4.52	5.16	PASS
	10	LCH	RB50#0	64QAM	9.00	10.09	PASS
		MCH	RB50#0	64QAM	9.03	10.13	PASS
		HCH	RB50#0	64QAM	9.01	10.11	PASS
	15	LCH	RB75#0	64QAM	13.50	15.02	PASS
		MCH	RB75#0	64QAM	13.51	14.93	PASS
		HCH	RB75#0	64QAM	13.49	14.98	PASS
	20	LCH	RB100#0	64QAM	18.06	20.06	PASS
		MCH	RB100#0	64QAM	18.11	20.10	PASS
		HCH	RB100#0	64QAM	18.09	20.10	PASS

4.2 TEST PLOTS

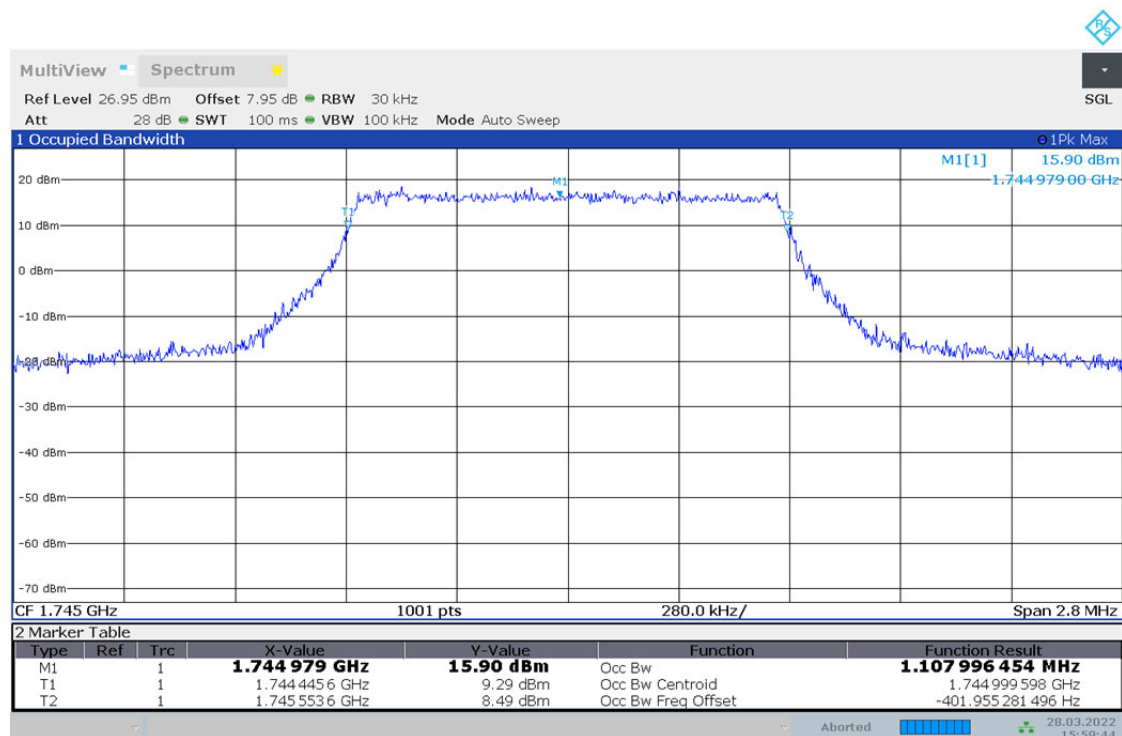
4.2.1 TM1_1.4MHZ_LCH_RB6#0



4.2.2 TM1_1.4MHZ_MCH_RB6#0

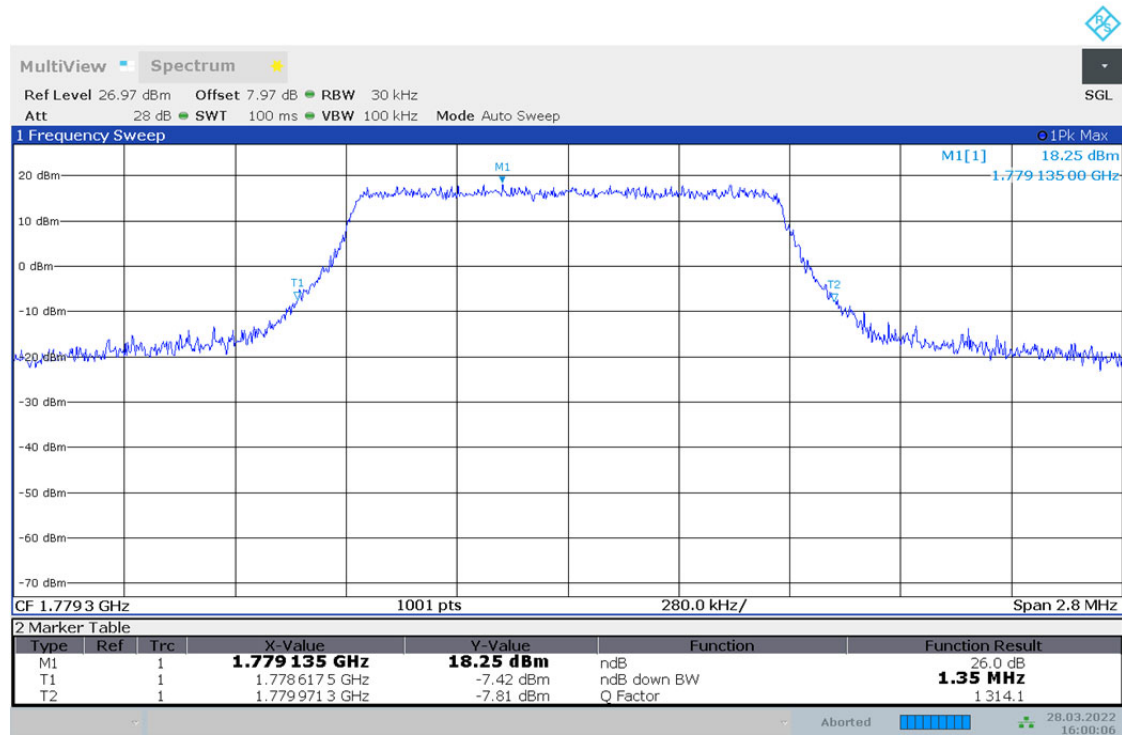


15:59:40 28.03.2022

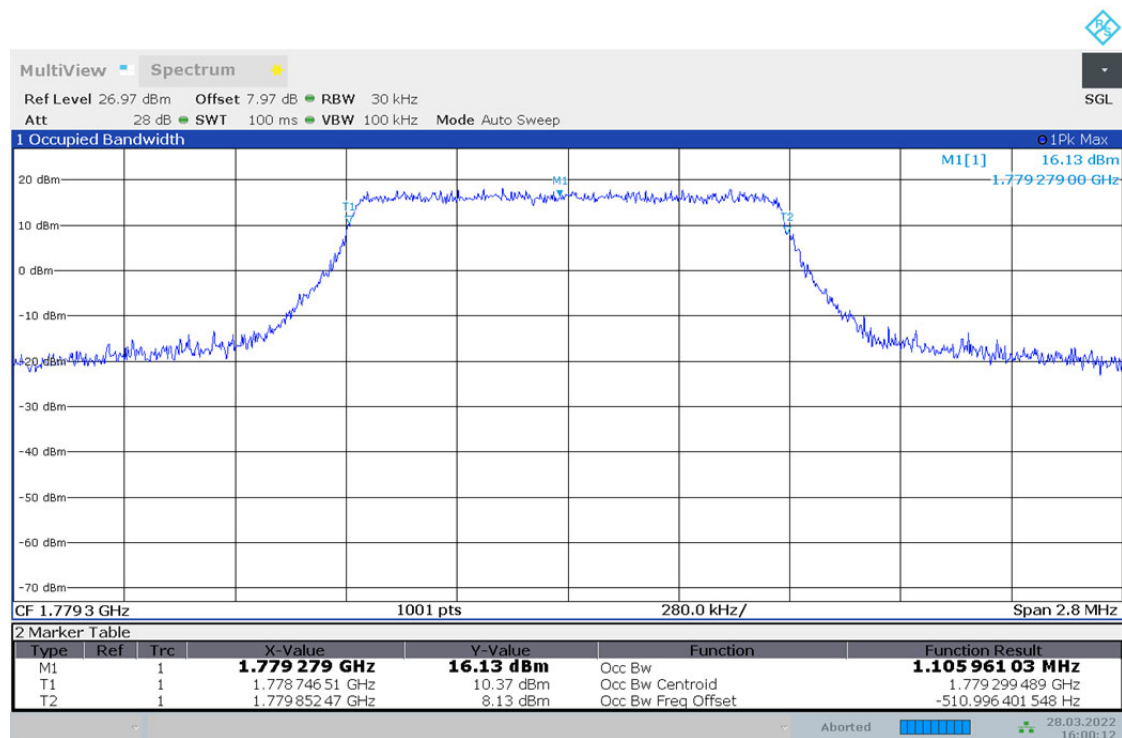


15:59:45 28.03.2022

4.2.3 TM1_1.4MHZ_HCH_RB6#0

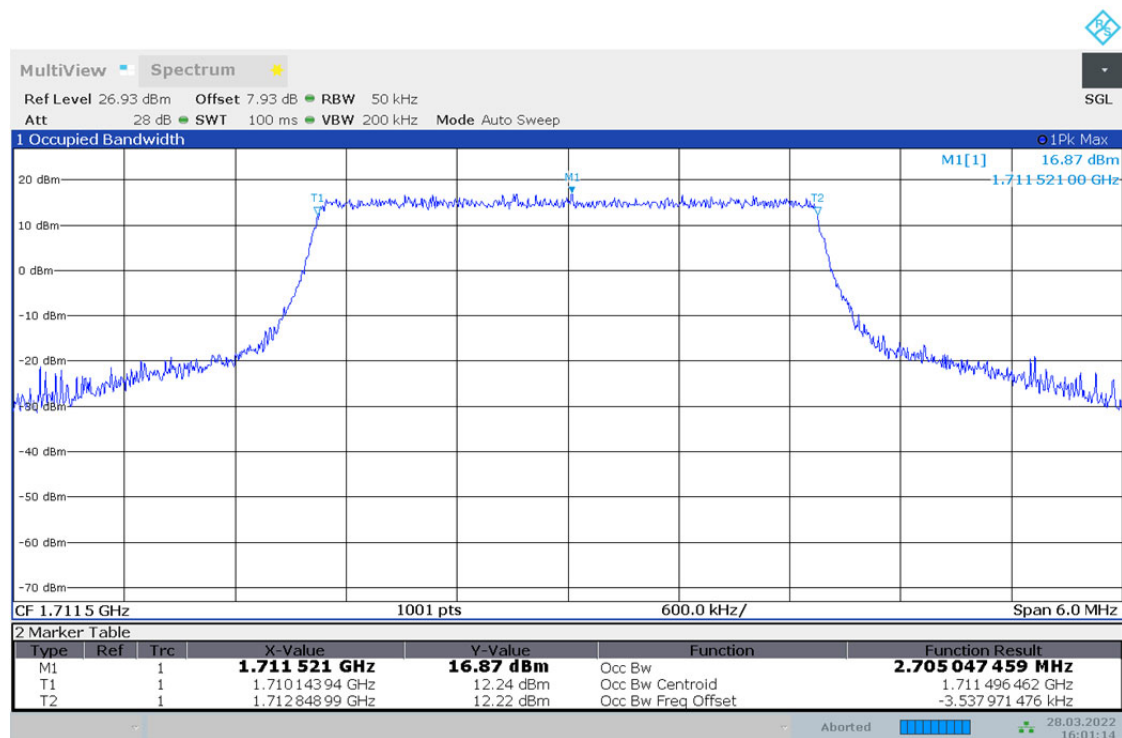
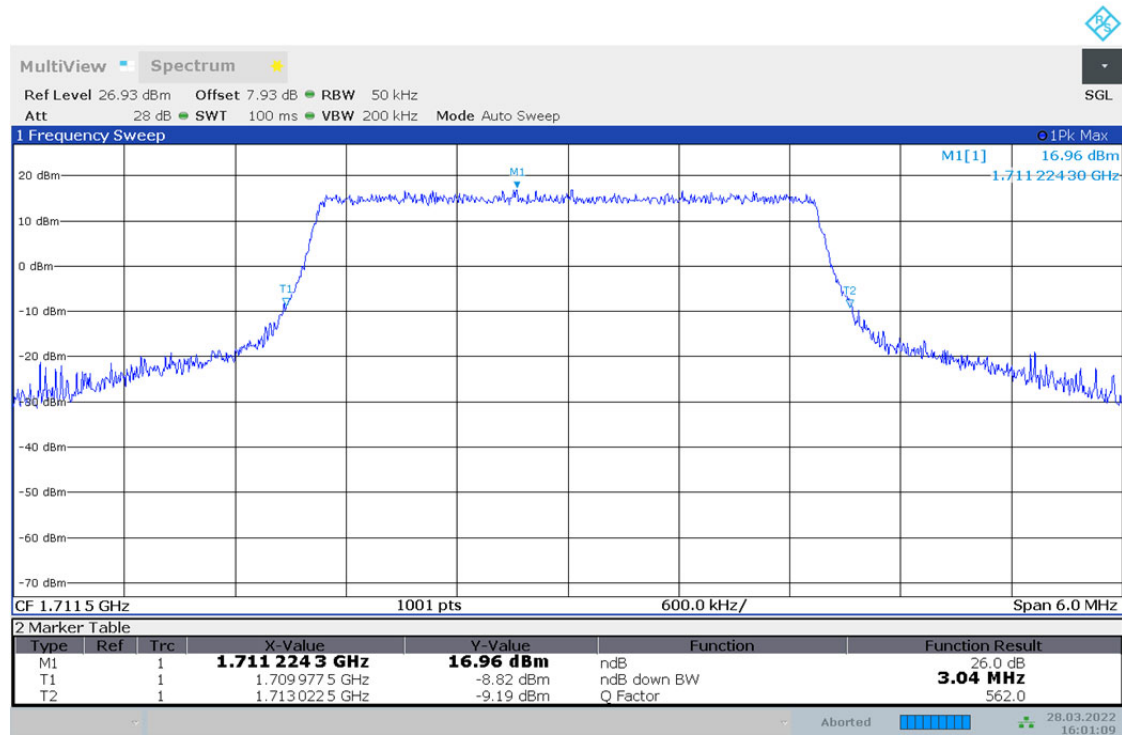


16:00:07 28.03.2022

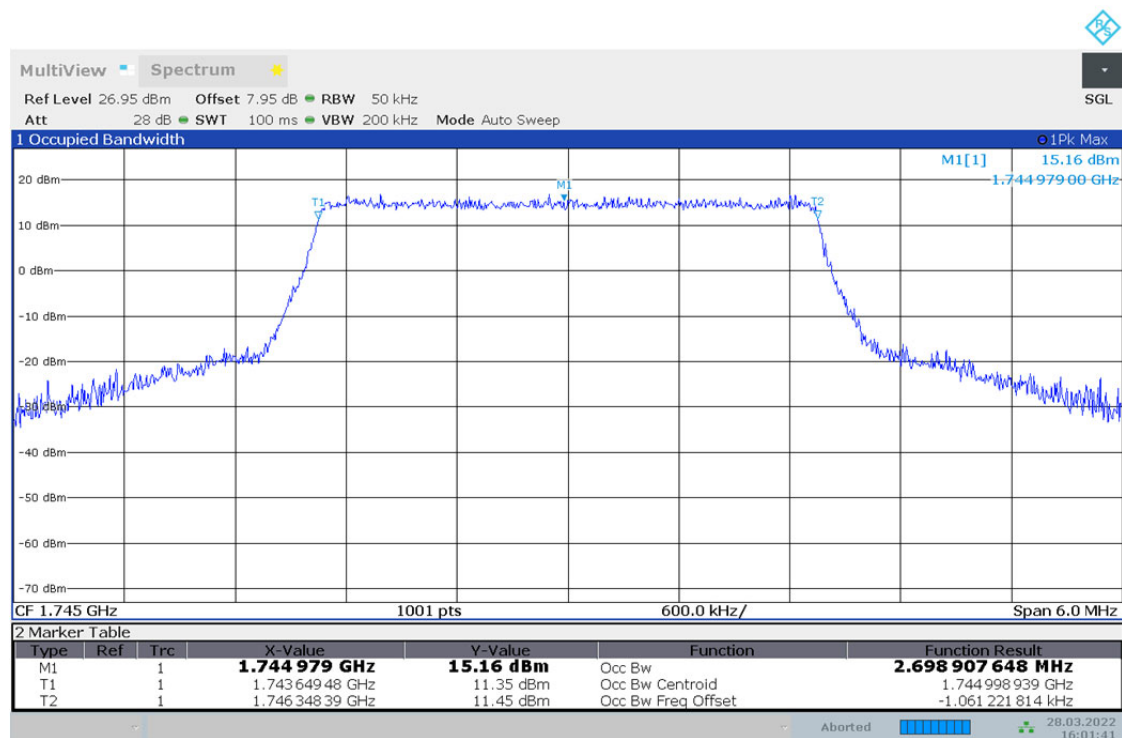
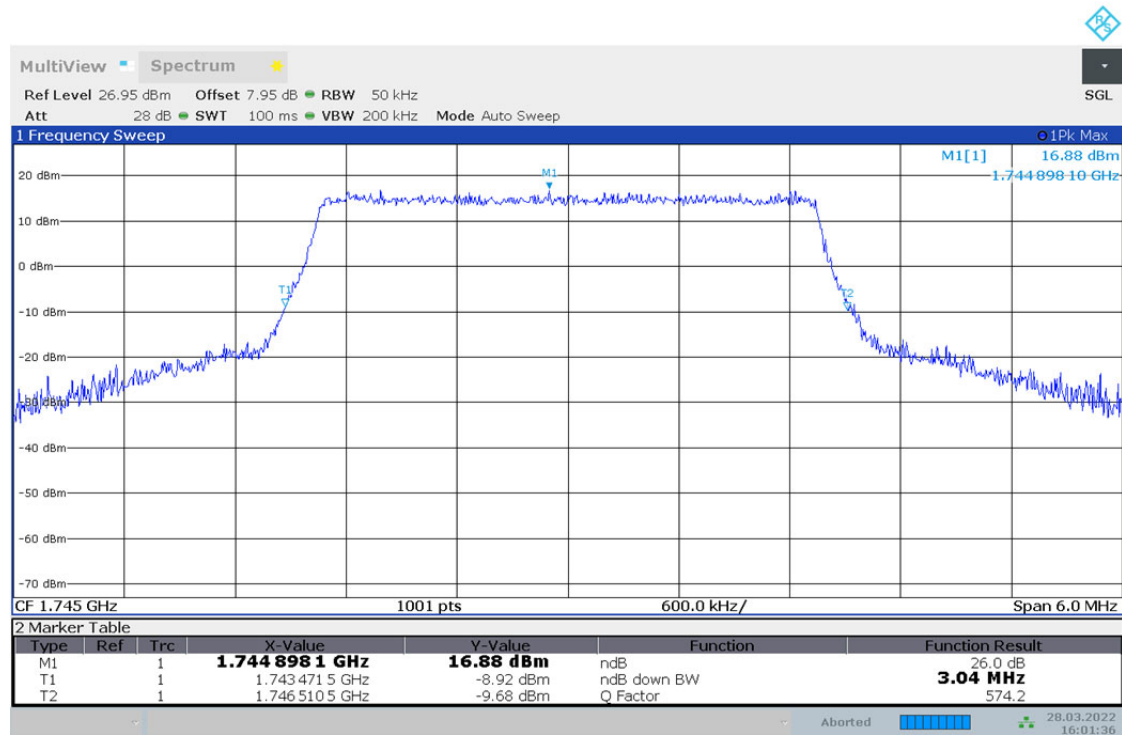


16:00:13 28.03.2022

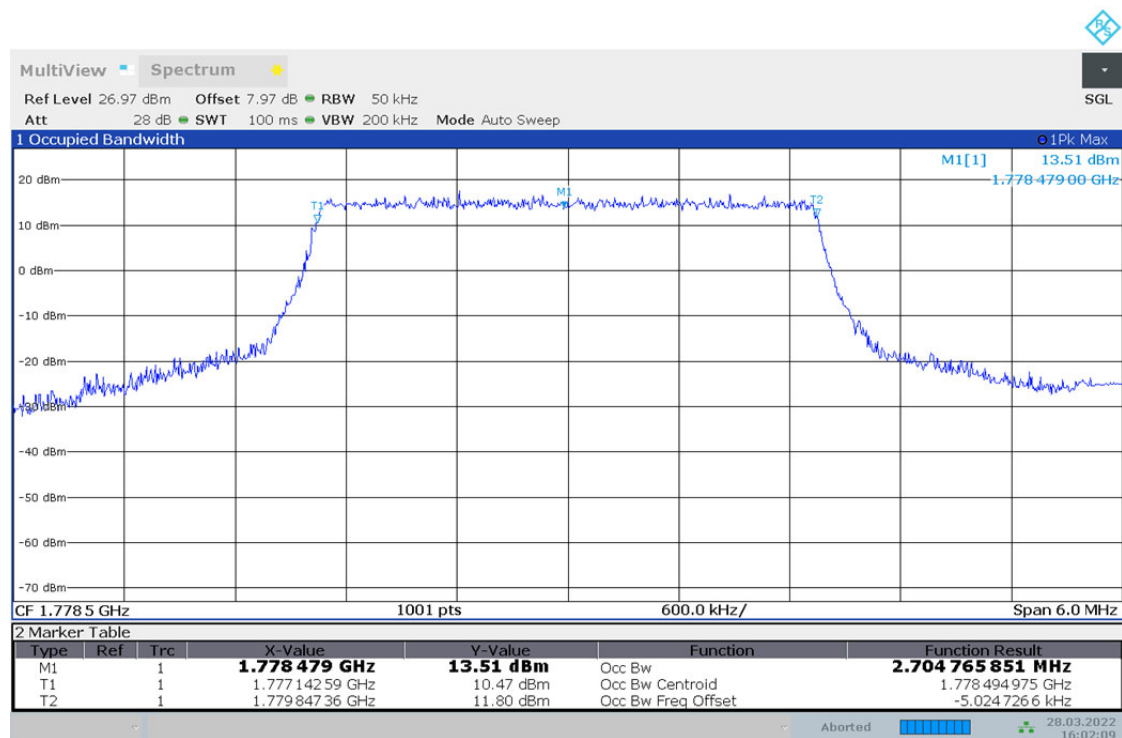
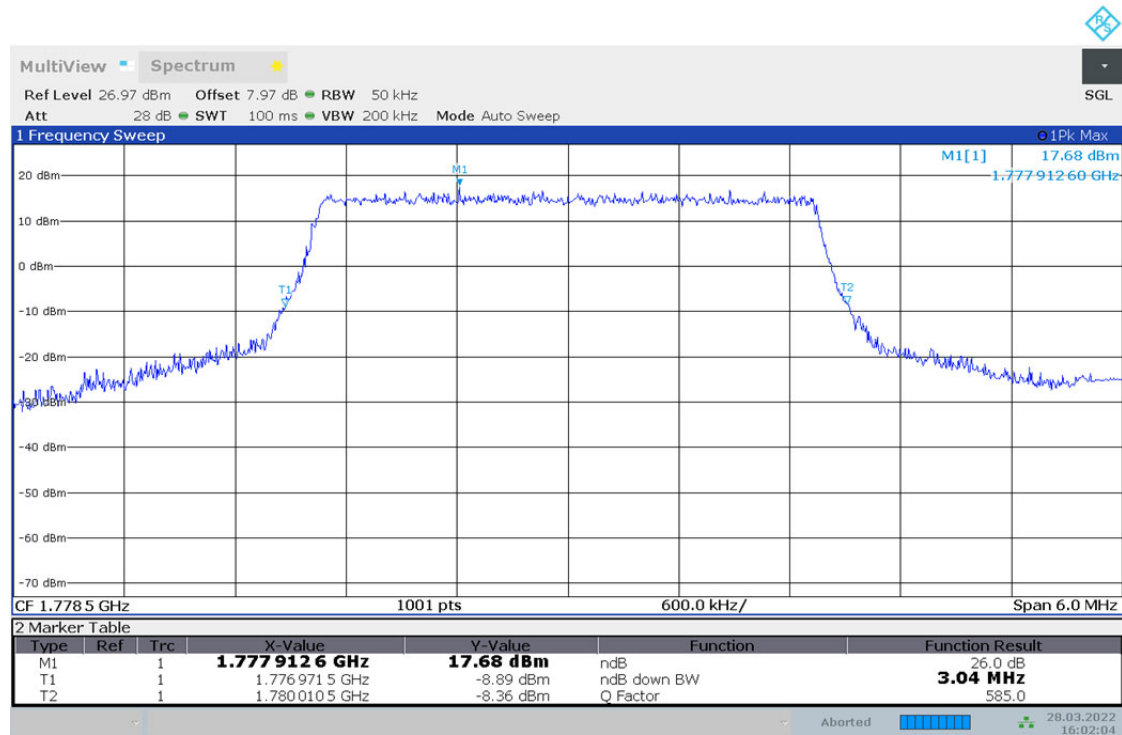
4.2.4 TM1_3MHZ_LCH_RB15#0



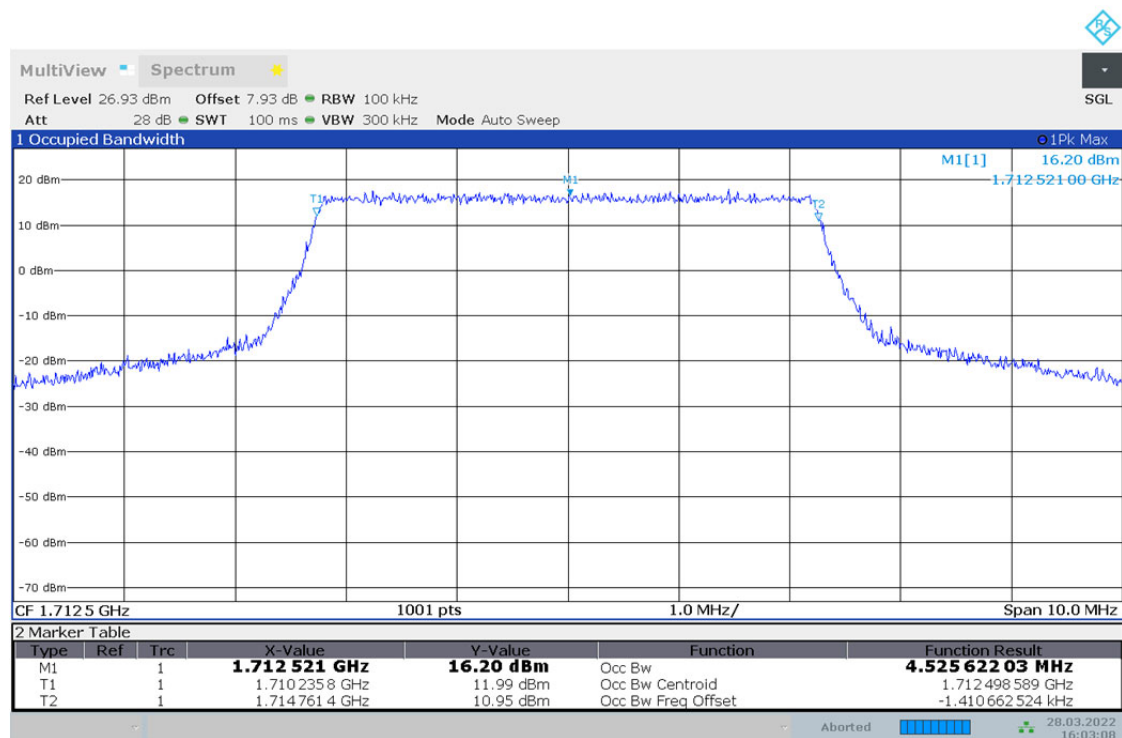
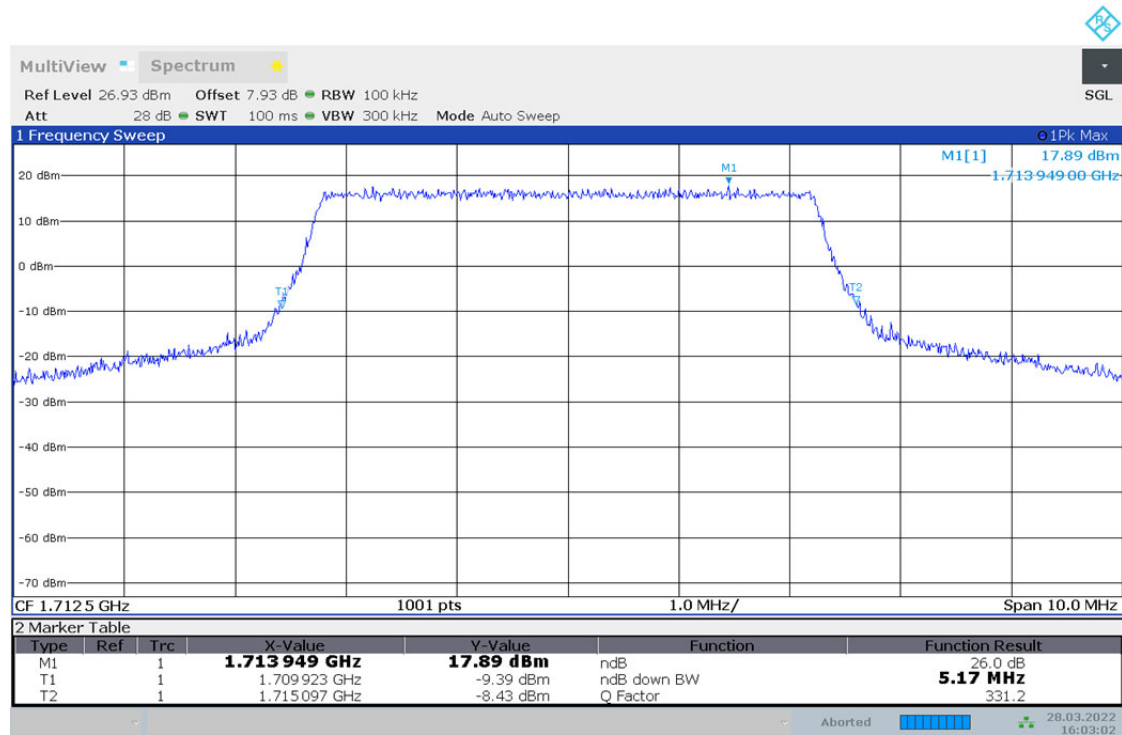
4.2.5 TM1_3MHZ_MCH_RB15#0



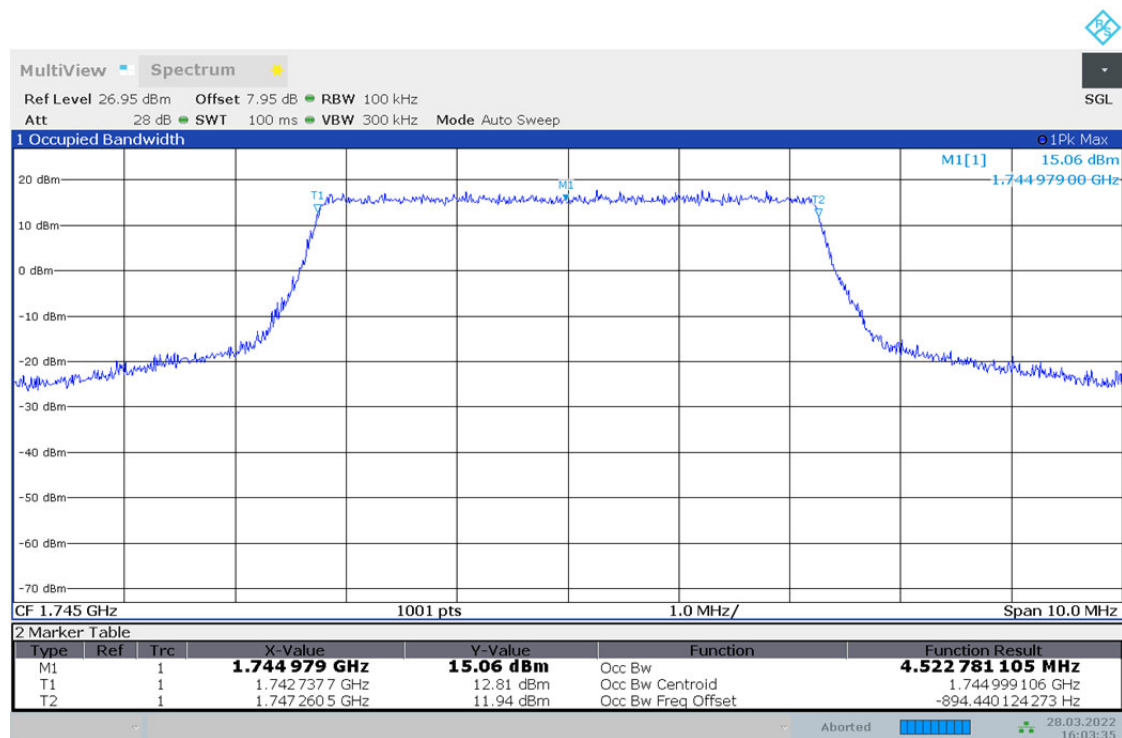
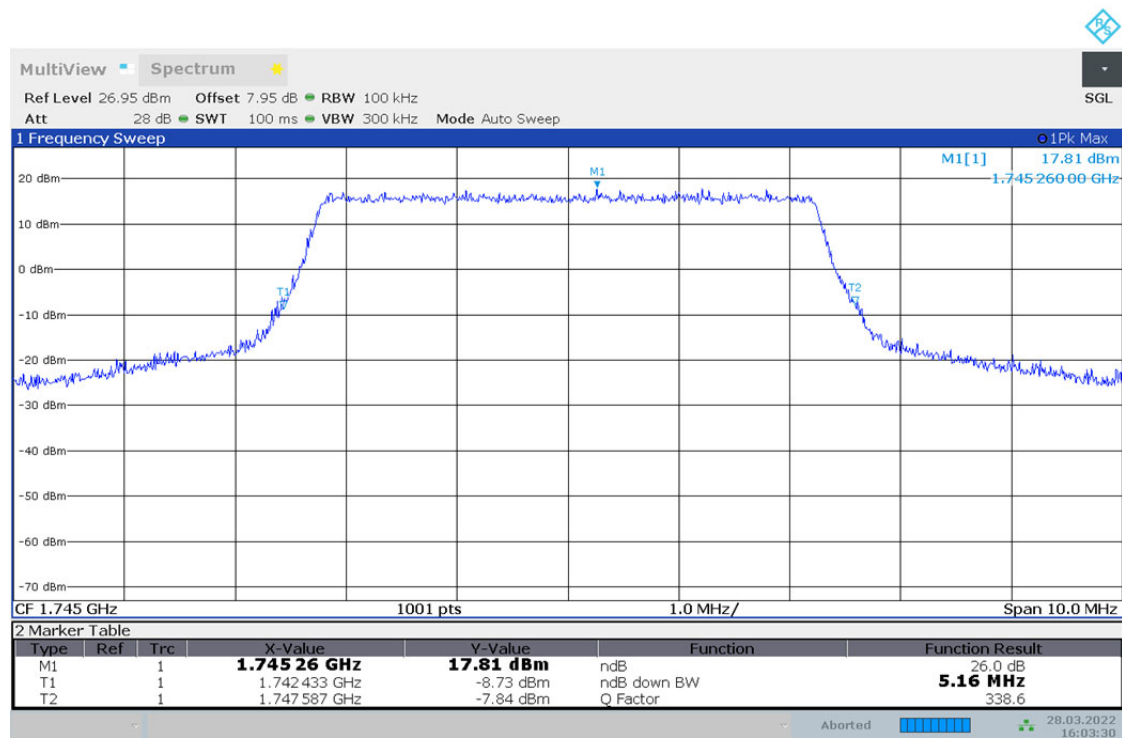
4.2.6 TM1_3MHZ_HCH_RB15#0



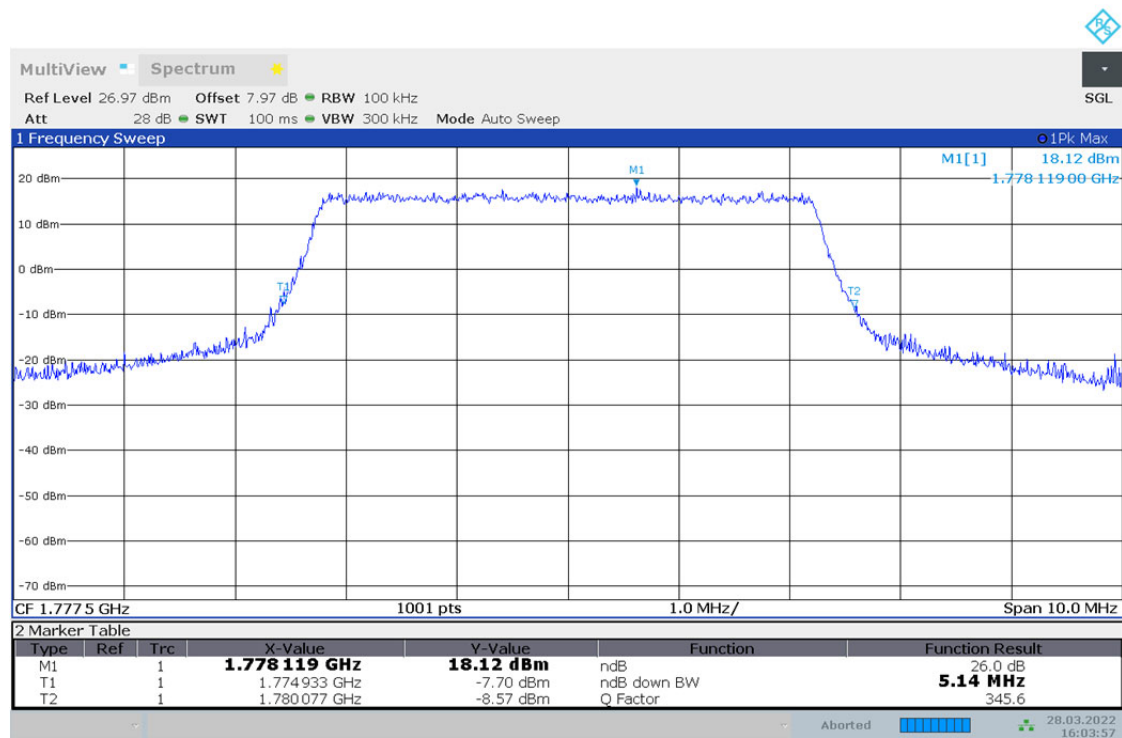
4.2.7 TM1_5MHZ_LCH_RB25#0



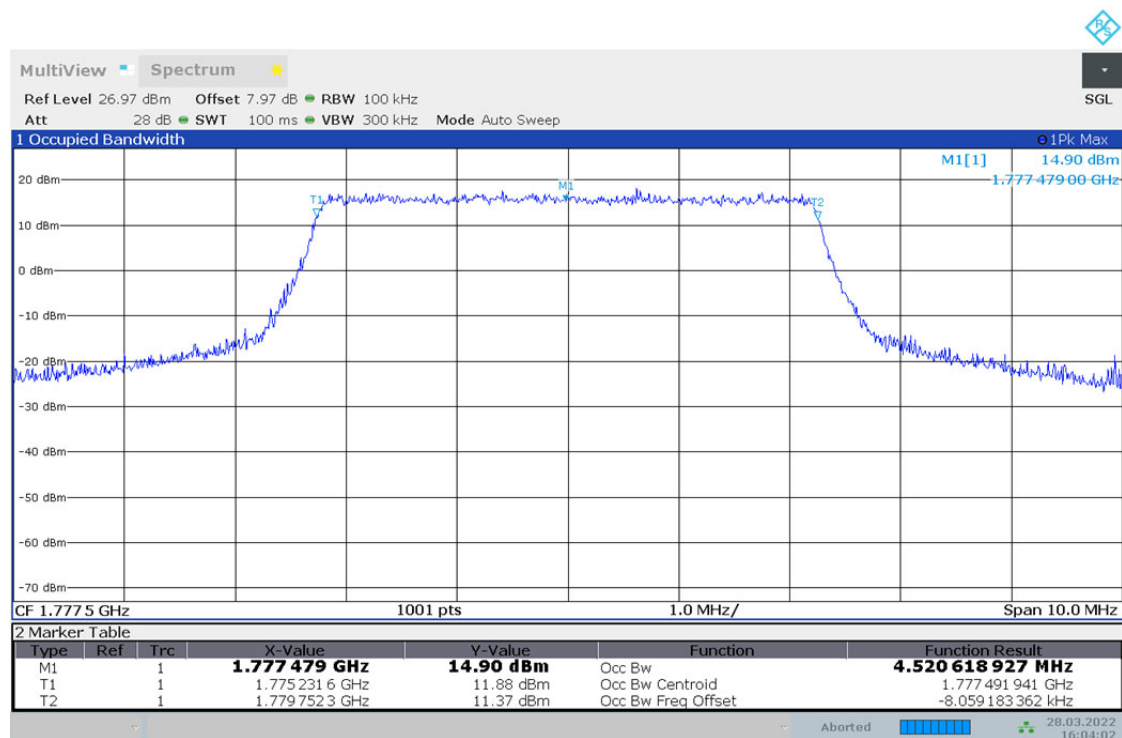
4.2.8 TM1_5MHZ_MCH_RB25#0



4.2.9 TM1_5MHZ_HCH_RB25#0

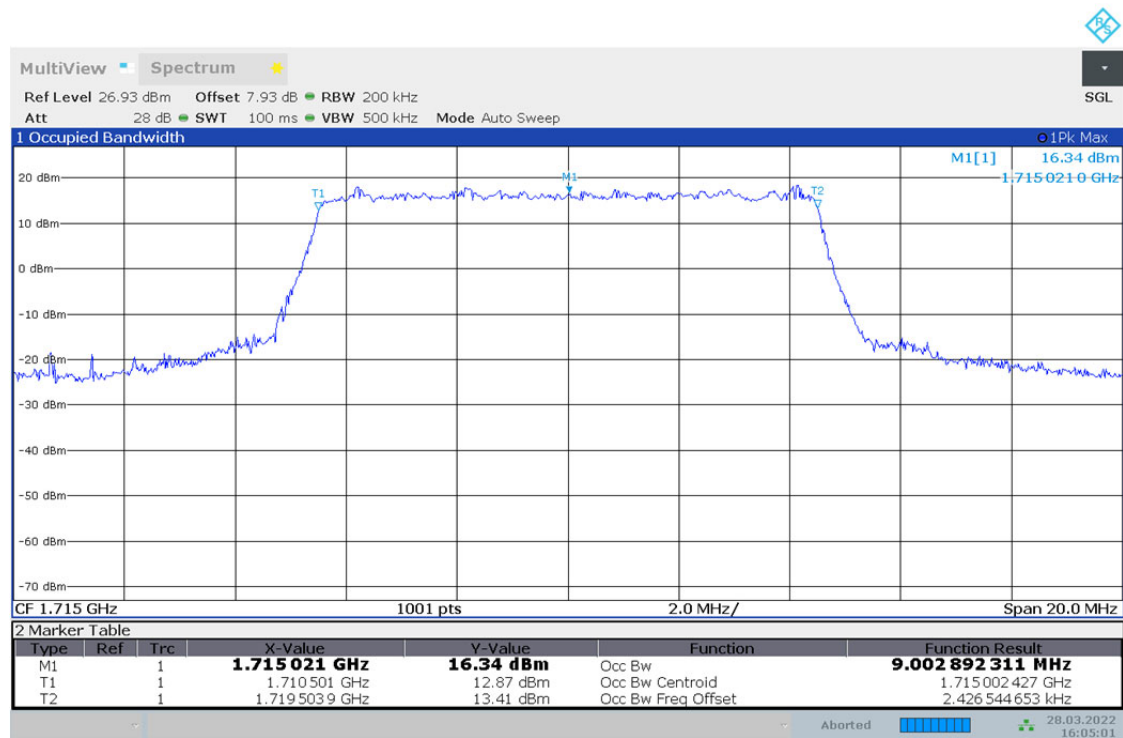
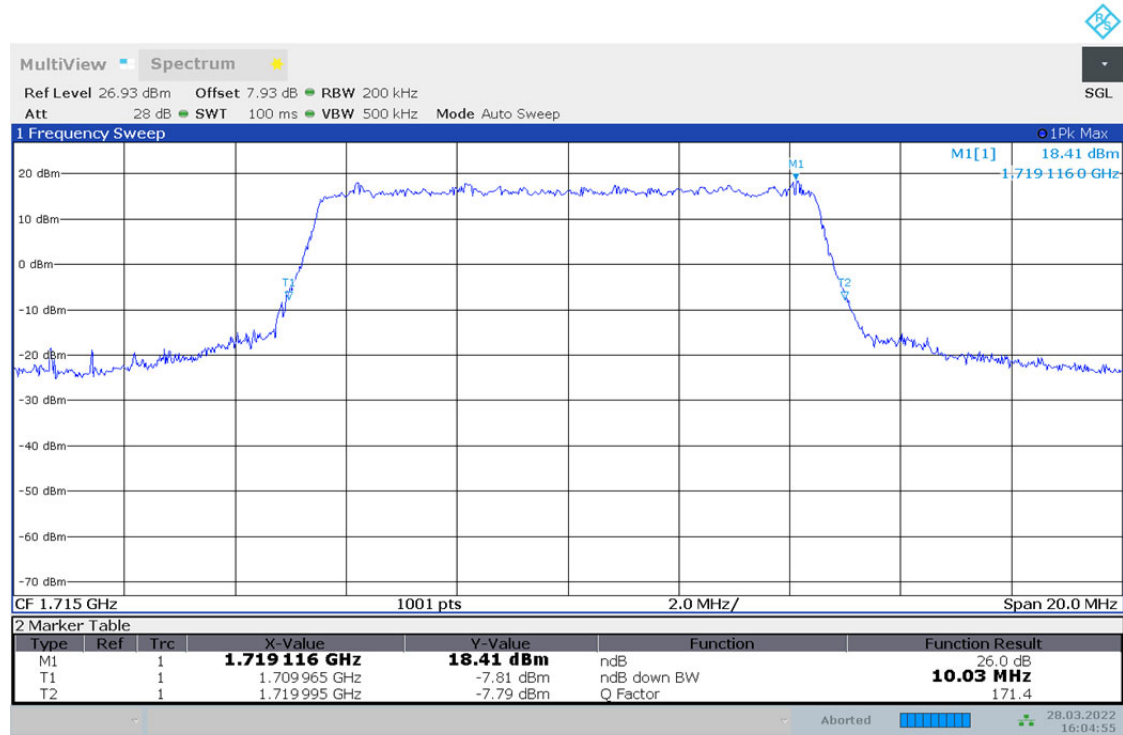


16:03:57 28.03.2022

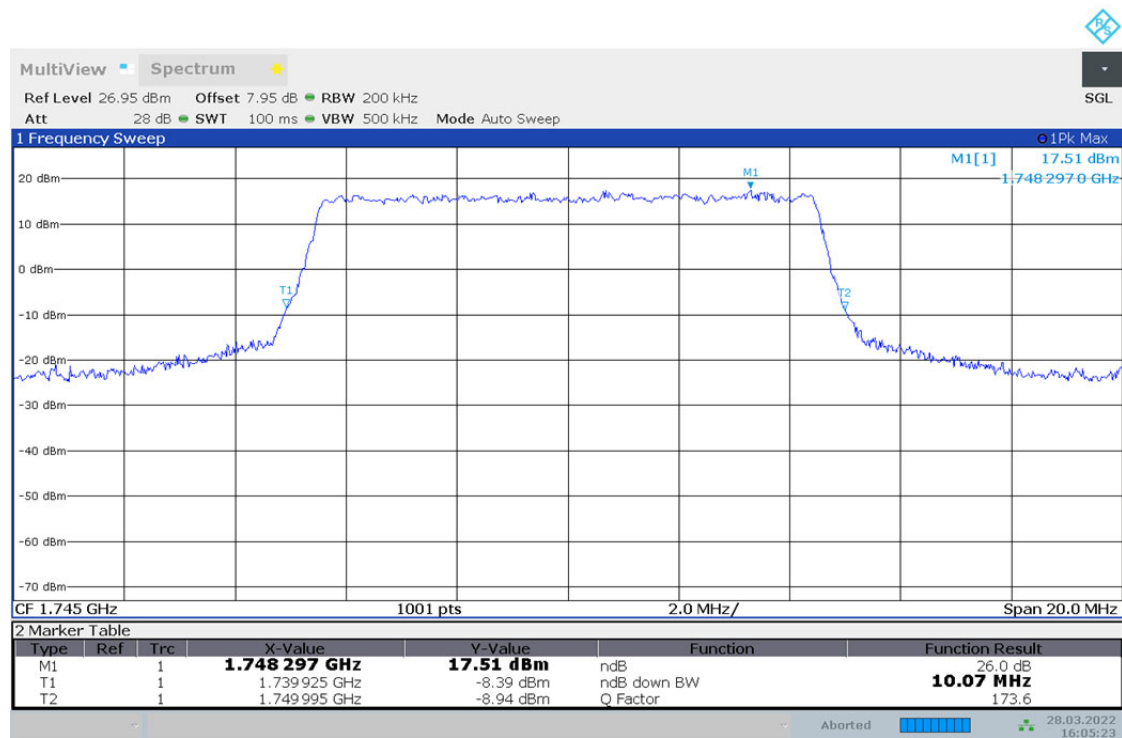


16:04:02 28.03.2022

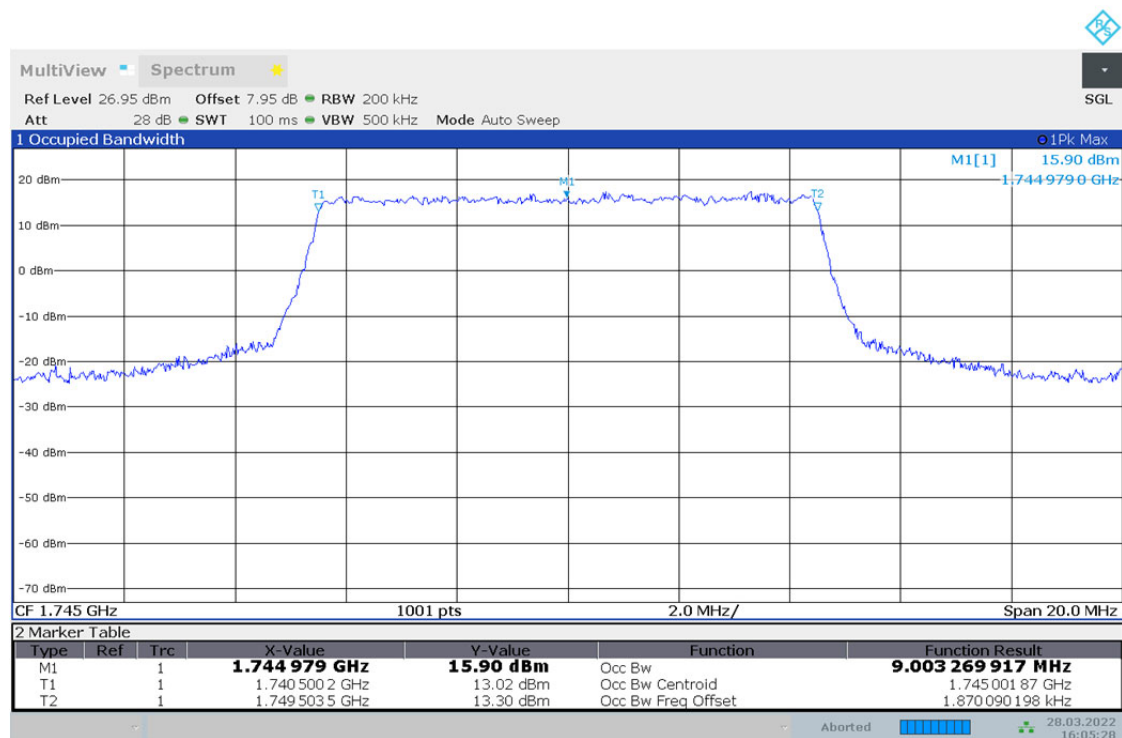
4.2.10 TM1_10MHZ_LCH_RB50#0



4.2.11 TM1_10MHZ_MCH_RB50#0

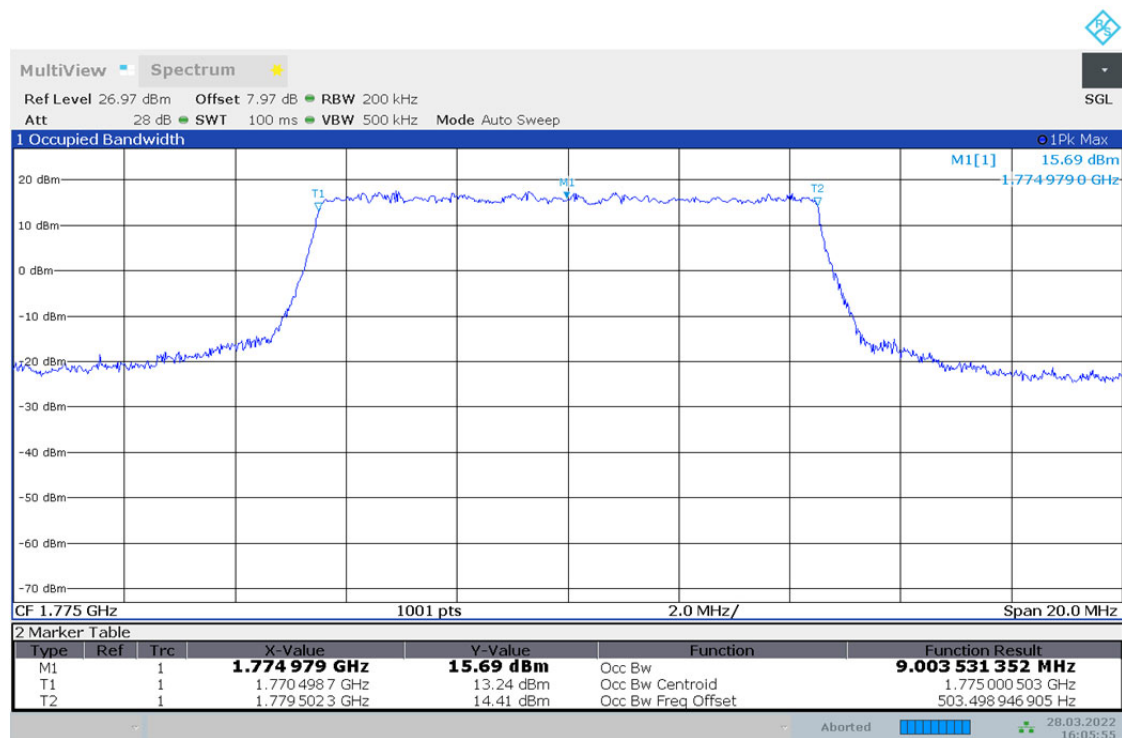
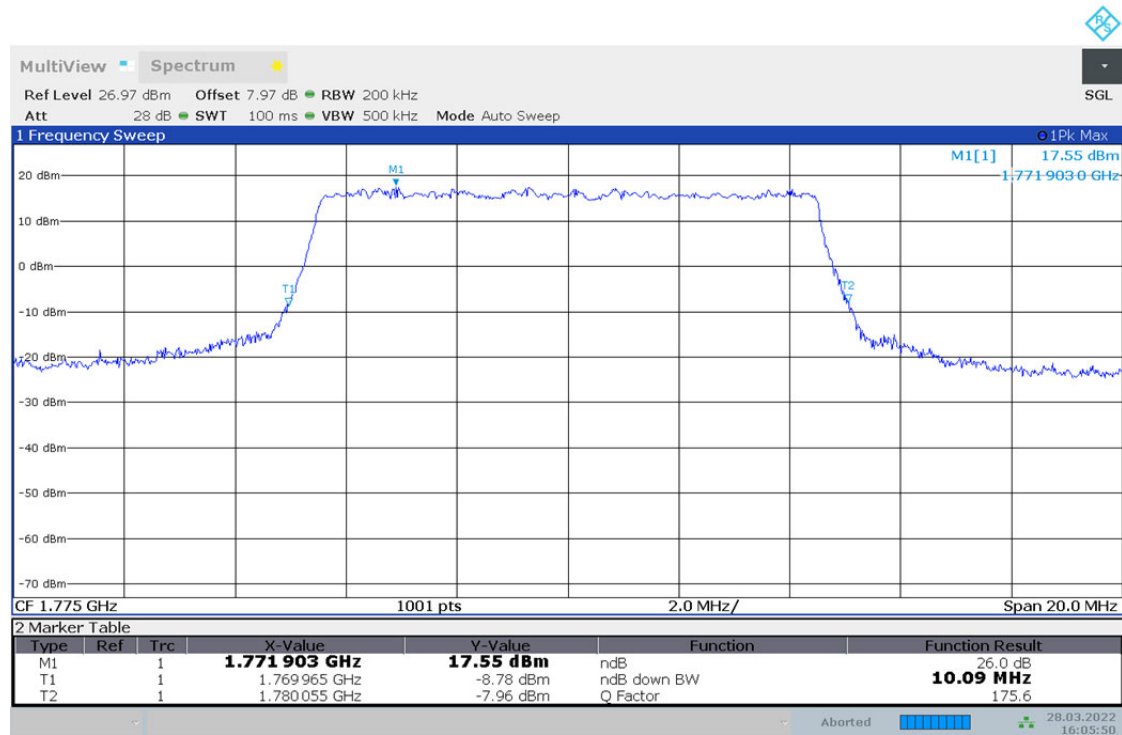


16:05:23 28.03.2022

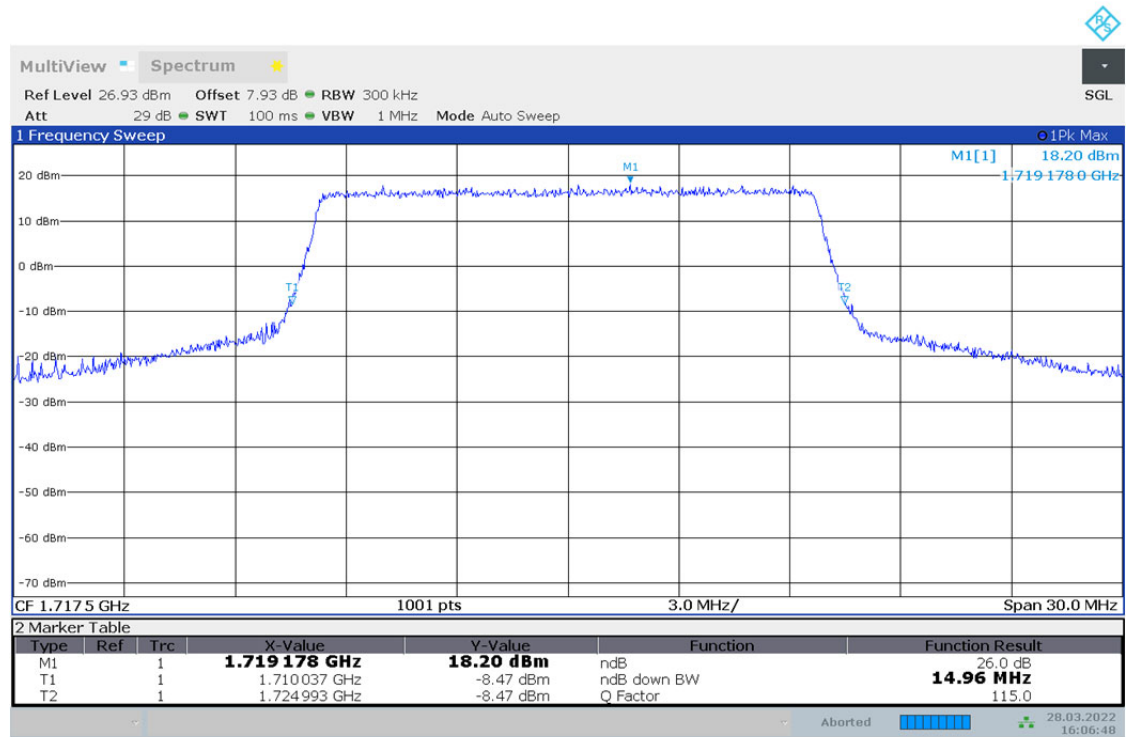


16:05:28 28.03.2022

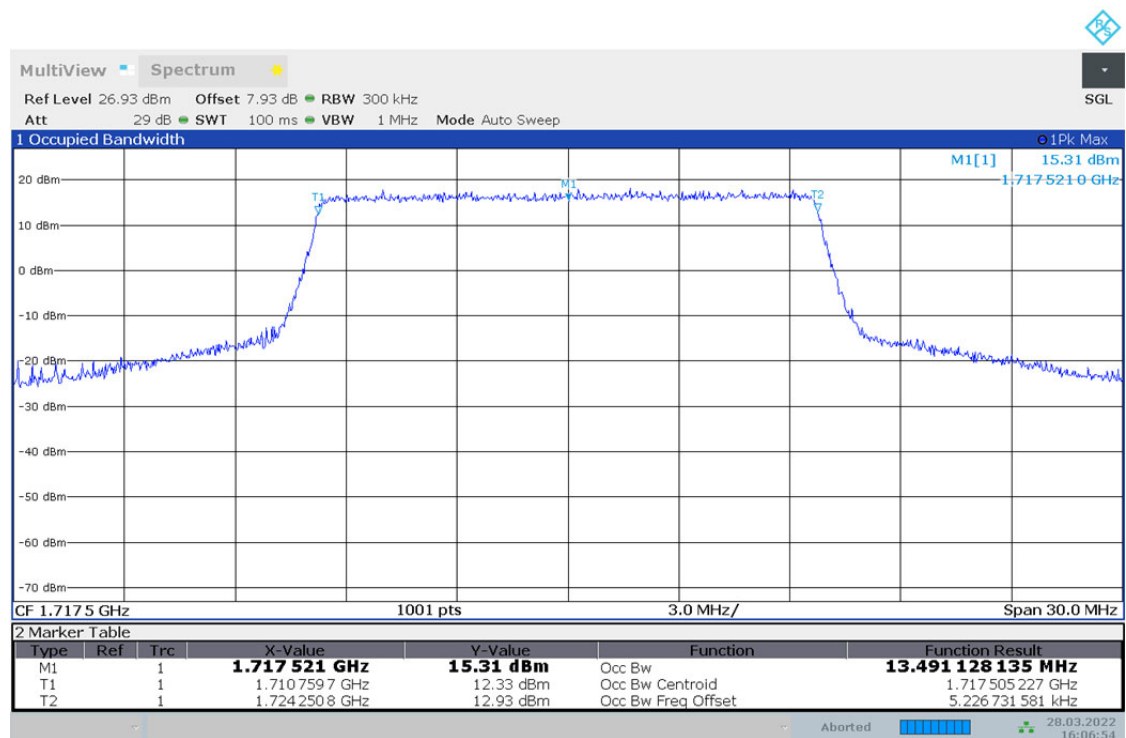
4.2.12 TM1_10MHZ_HCH_RB50#0



4.2.13 TM1_15MHZ_LCH_RB75#0

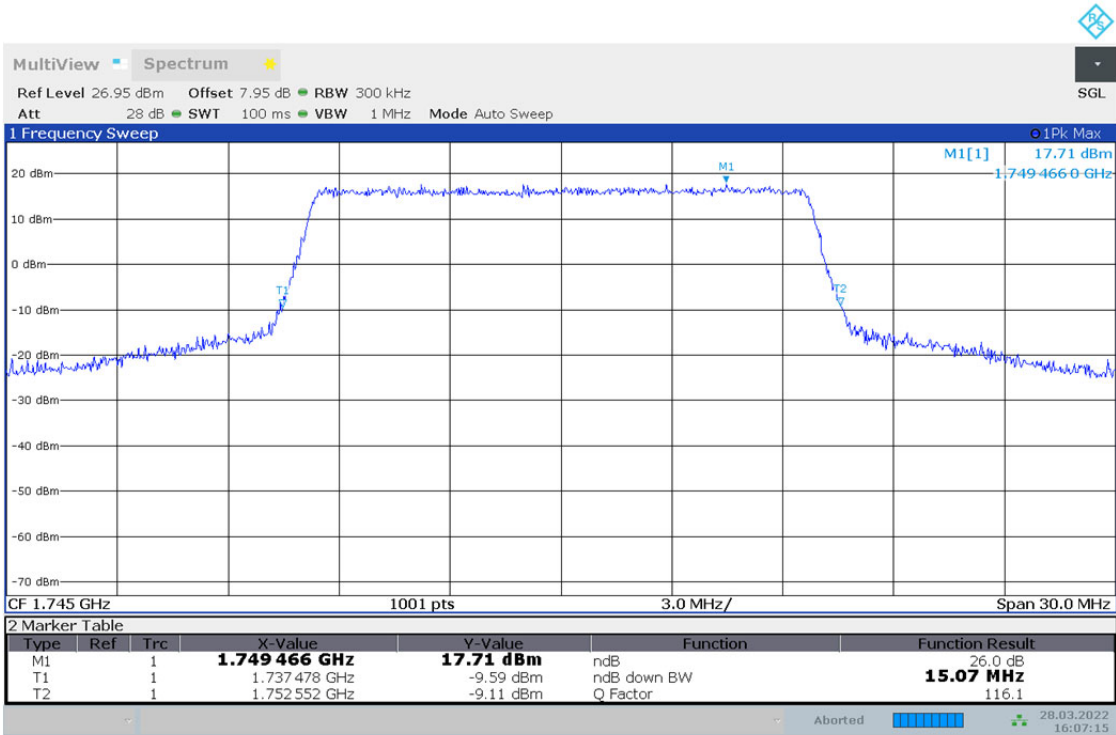


16:06:48 28.03.2022

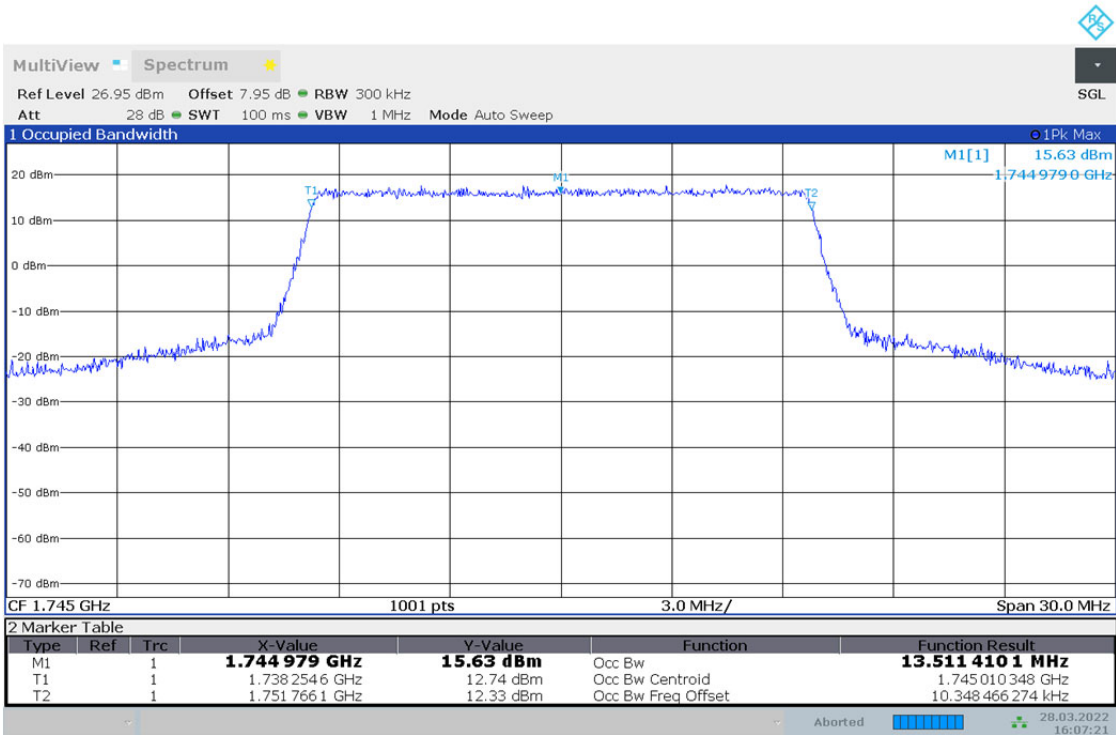


16:06:54 28.03.2022

4.2.14 TM1_15MHZ_MCH_RB75#0

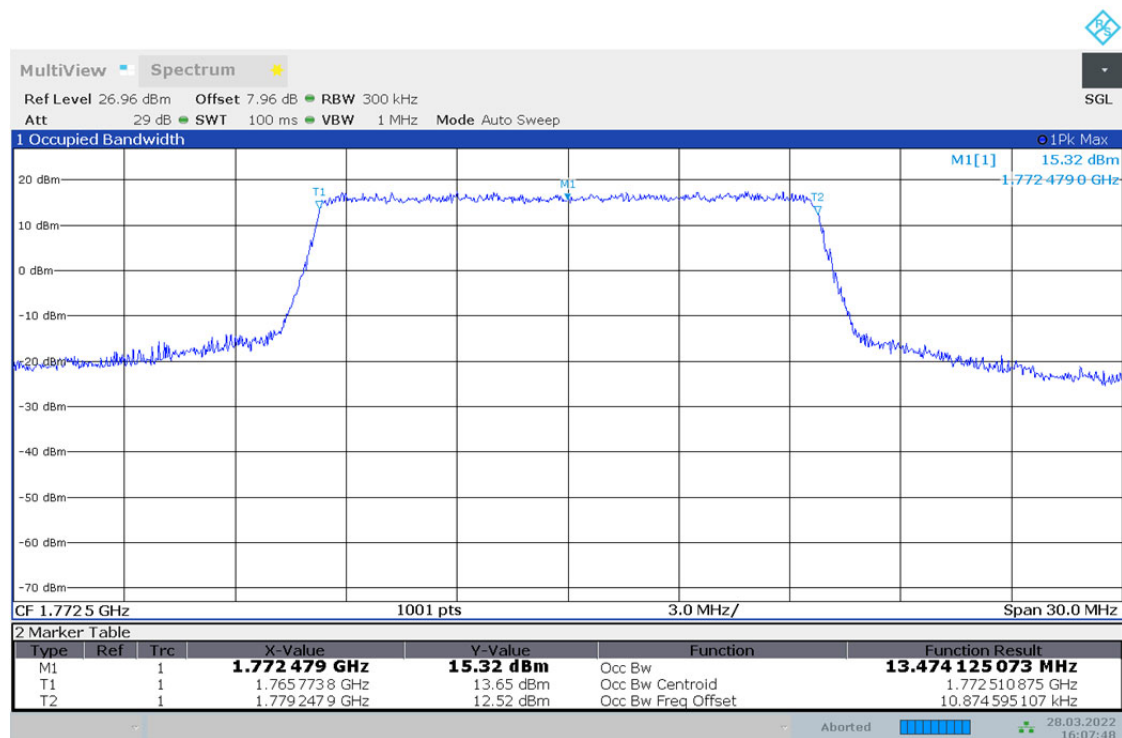
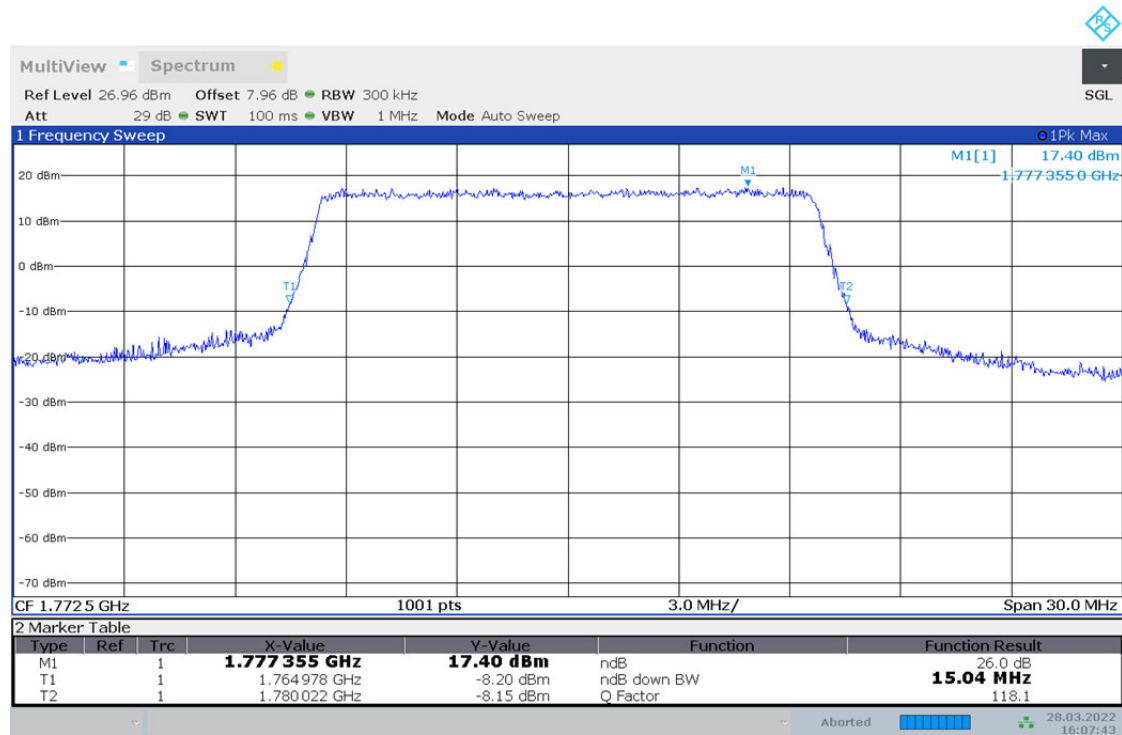


16:07:16 28.03.2022



16:07:21 28.03.2022

4.2.15 TM1_15MHZ_HCH_RB75#0



4.2.16 TM1_20MHZ_LCH_RB100#0

