Appendix for Band 41

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	5	LCH	RB25#0	QPSK	24.89	-1.1	23.79	33	PASS
			RB1#0	QPSK	24.93	-1.1	23.83	33	PASS
			RB1#24	QPSK	24.87	-1.1	23.77	33	PASS
		MCH	RB25#0	QPSK	24.79	-1.1	23.69	33	PASS
			RB1#0	QPSK	24.66	-1.1	23.56	33	PASS
			RB1#24	QPSK	24.76	-1.1	23.66	33	PASS
		HCH	RB25#0	QPSK	24.78	-1.1	23.68	33	PASS
			RB1#0	QPSK	24.73	-1.1	23.63	33	PASS
			RB1#24	QPSK	24.75	-1.1	23.65	33	PASS
	20	LCH	RB100#0	QPSK	24.89	-1.1	23.79	33	PASS
			RB1#0	QPSK	24.77	-1.1	23.67	33	PASS
			RB1#99	QPSK	24.71	-1.1	23.61	33	PASS
		MCH	RB100#0	QPSK	24.70	-1.1	23.60	33	PASS
			RB1#0	QPSK	24.72	-1.1	23.62	33	PASS
			RB1#99	QPSK	24.66	-1.1	23.56	33	PASS
		HCH	RB100#0	QPSK	24.64	-1.1	23.54	33	PASS
			RB1#0	QPSK	24.74	-1.1	23.64	33	PASS
			RB1#99	QPSK	24.61	-1.1	23.51	33	PASS
TM2	5	LCH	RB25#0	16QAM	23.92	-1.1	22.82	33	PASS
			RB1#0	16QAM	25.40	-1.1	24.30	33	PASS
			RB1#24	16QAM	25.35	-1.1	24.25	33	PASS
		MCH	RB25#0	16QAM	24.82	-1.1	23.72	33	PASS
			RB1#0	16QAM	25.10	-1.1	24.00	33	PASS
			RB1#24	16QAM	25.14	-1.1	24.04	33	PASS
		HCH	RB25#0	16QAM	23.82	-1.1	22.72	33	PASS
			RB1#0	16QAM	25.04	-1.1	23.94	33	PASS
			RB1#24	16QAM	25.11	-1.1	24.01	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
TM1	20	LCH	RB100#0	16QAM	23.86	-1.1	22.76	33	PASS
			RB1#0	16QAM	25.29	-1.1	24.19	33	PASS
			RB1#99	16QAM	25.03	-1.1	23.93	33	PASS
		MCH	RB100#0	16QAM	24.72	-1.1	23.62	33	PASS
			RB1#0	16QAM	25.07	-1.1	23.97	33	PASS
			RB1#99	16QAM	24.98	-1.1	23.88	33	PASS
		HCH	RB100#0	16QAM	23.64	-1.1	22.54	33	PASS
			RB1#0	16QAM	25.03	-1.1	23.93	33	PASS
			RB1#99	16QAM	25.14	-1.1	24.04	33	PASS

2 Appendix B: Peak-to-Average Ratio

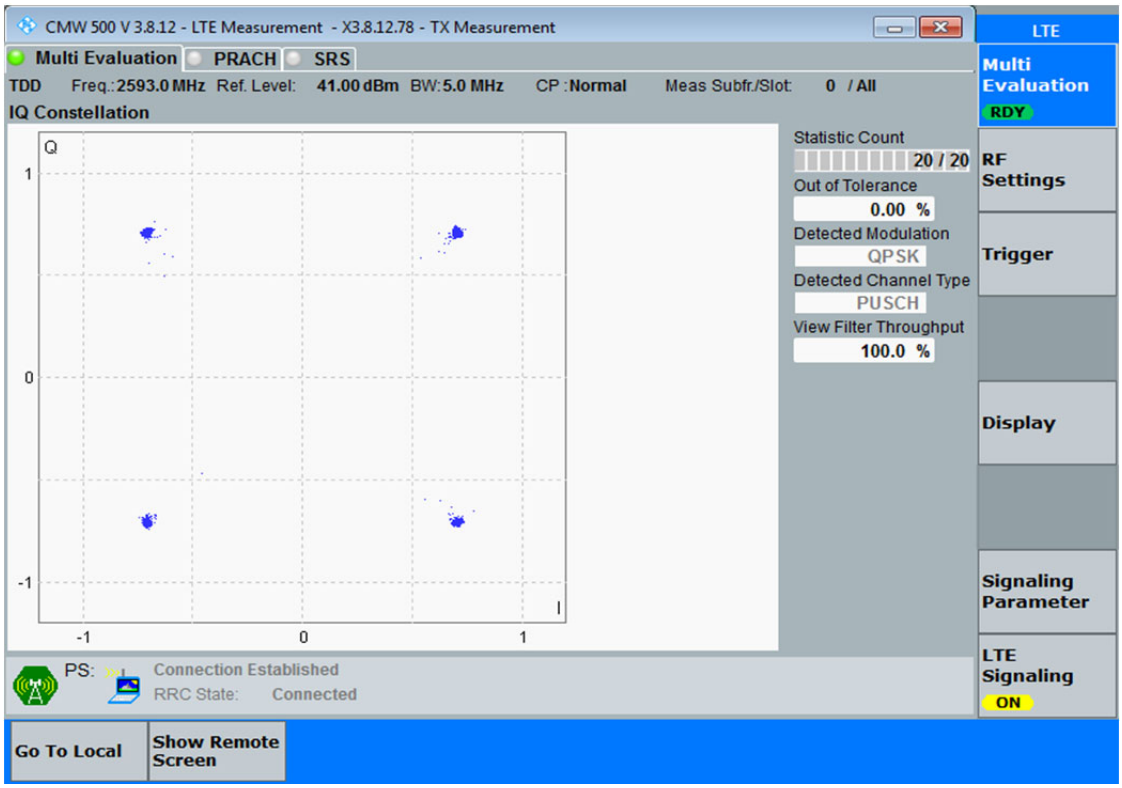
2.1 Test Results

Peak-to-Average Ratio							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Measured [dBm]	Limit [dBm]	Verdict
TM1	5	MCH	RB25#0	QPSK	5.71	13	PASS
			RB1#0	QPSK	4.50	13	PASS
			RB1#24	QPSK	4.47	13	PASS
	20		RB100#0	QPSK	5.79	13	PASS
			RB1#0	QPSK	4.47	13	PASS
			RB1#99	QPSK	4.47	13	PASS
TM2	5		RB25#0	16QAM	6.21	13	PASS
			RB1#0	16QAM	4.72	13	PASS
			RB1#24	16QAM	4.79	13	PASS
	20		RB100#0	16QAM	6.51	13	PASS
			RB1#0	16QAM	4.78	13	PASS
			RB1#99	16QAM	4.71	13	PASS
TM3	5		RB25#0	64QAM	6.90	13	PASS
			RB1#0	64QAM	5.34	13	PASS
			RB1#24	64QAM	5.14	13	PASS
	20		RB100#0	64QAM	7.25	13	PASS
			RB1#0	64QAM	5.40	13	PASS
			RB1#99	64QAM	5.30	13	PASS

3 Appendix C: Modulation Characteristics

3.1 Test Plots

3.1.1 TM1_5MHz_MCH_RB25#0



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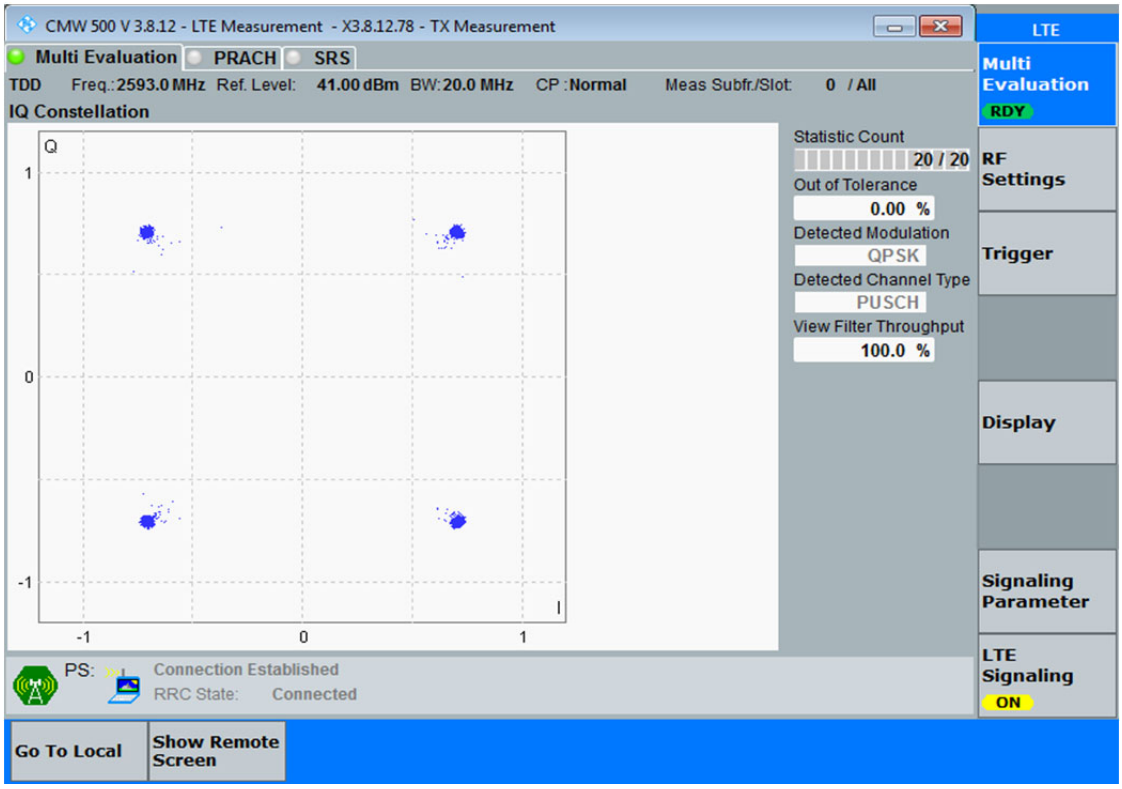

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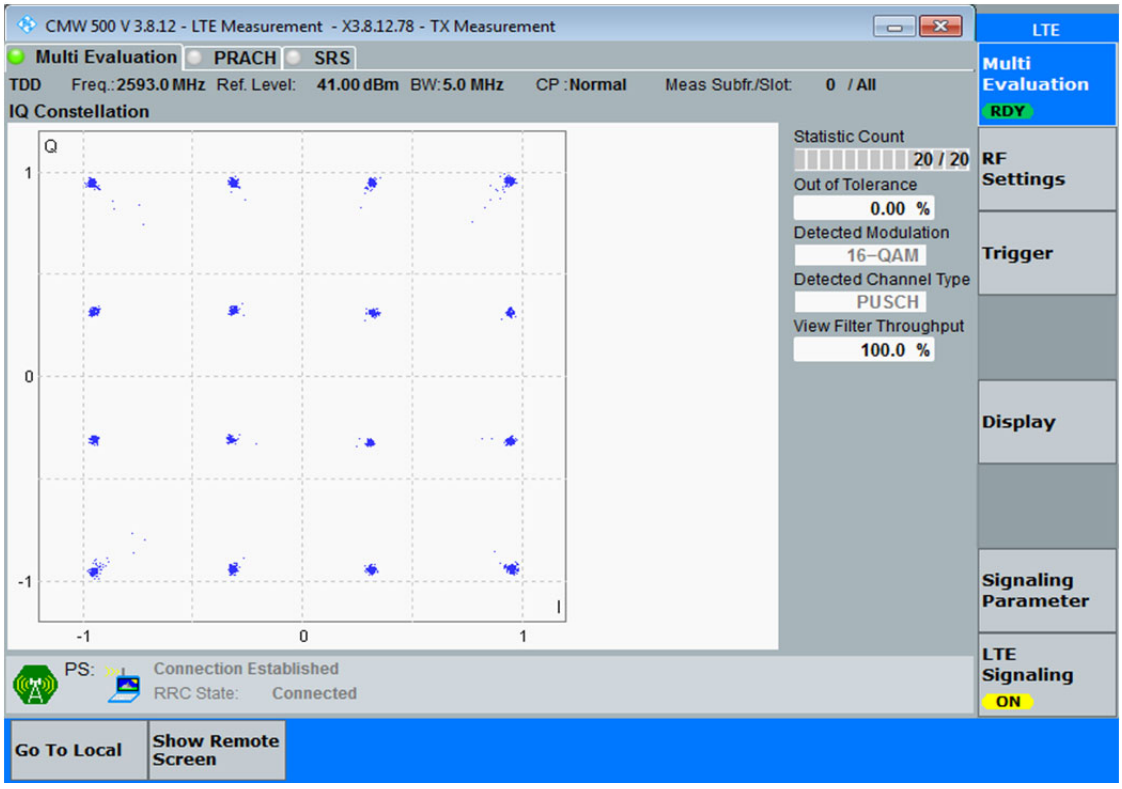

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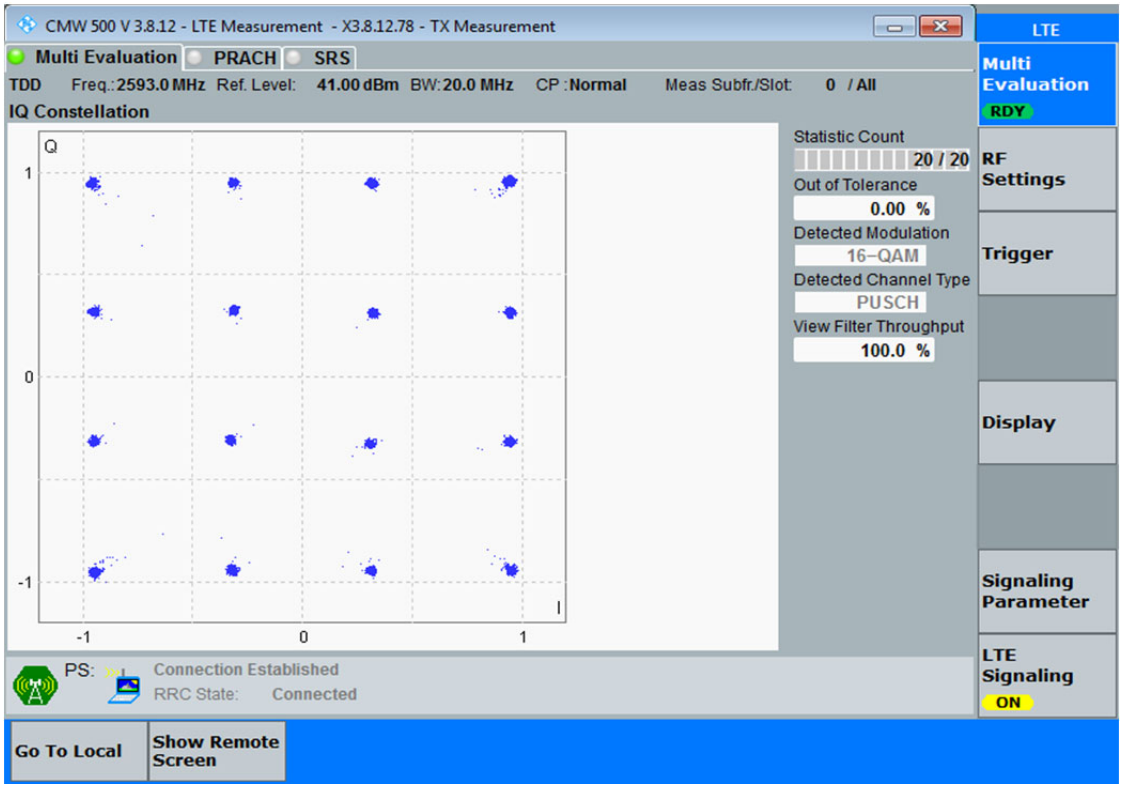

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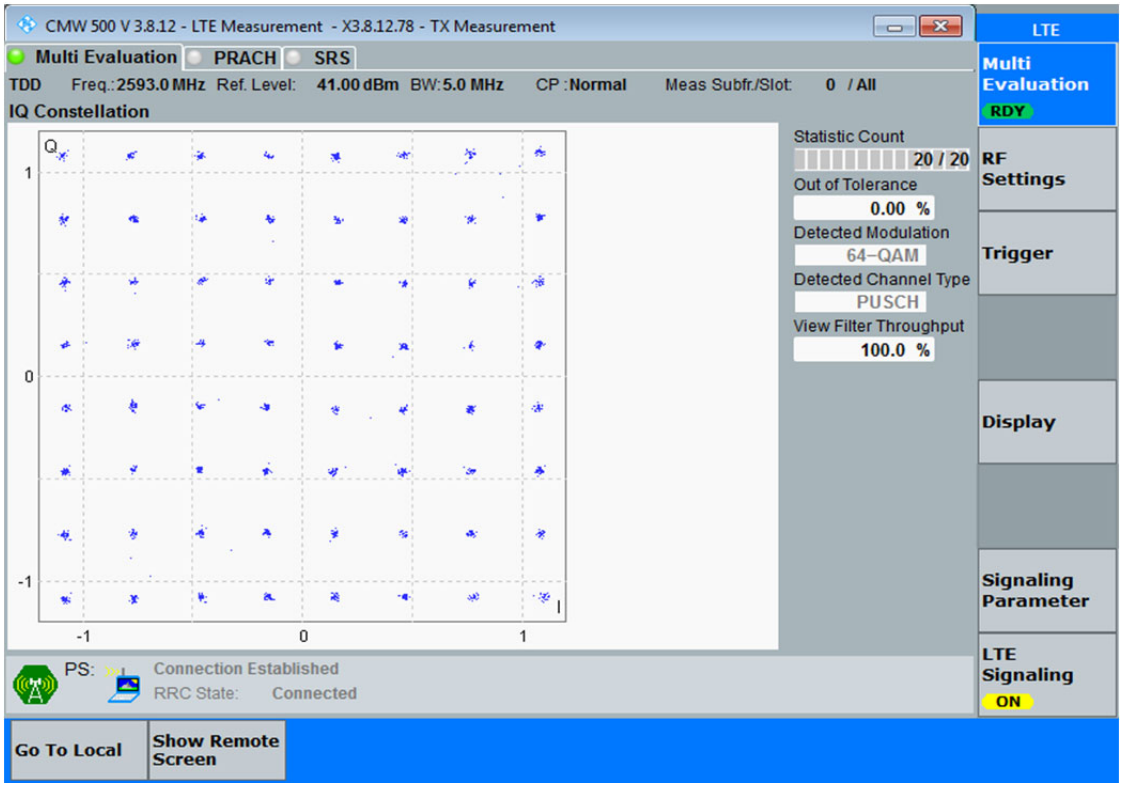

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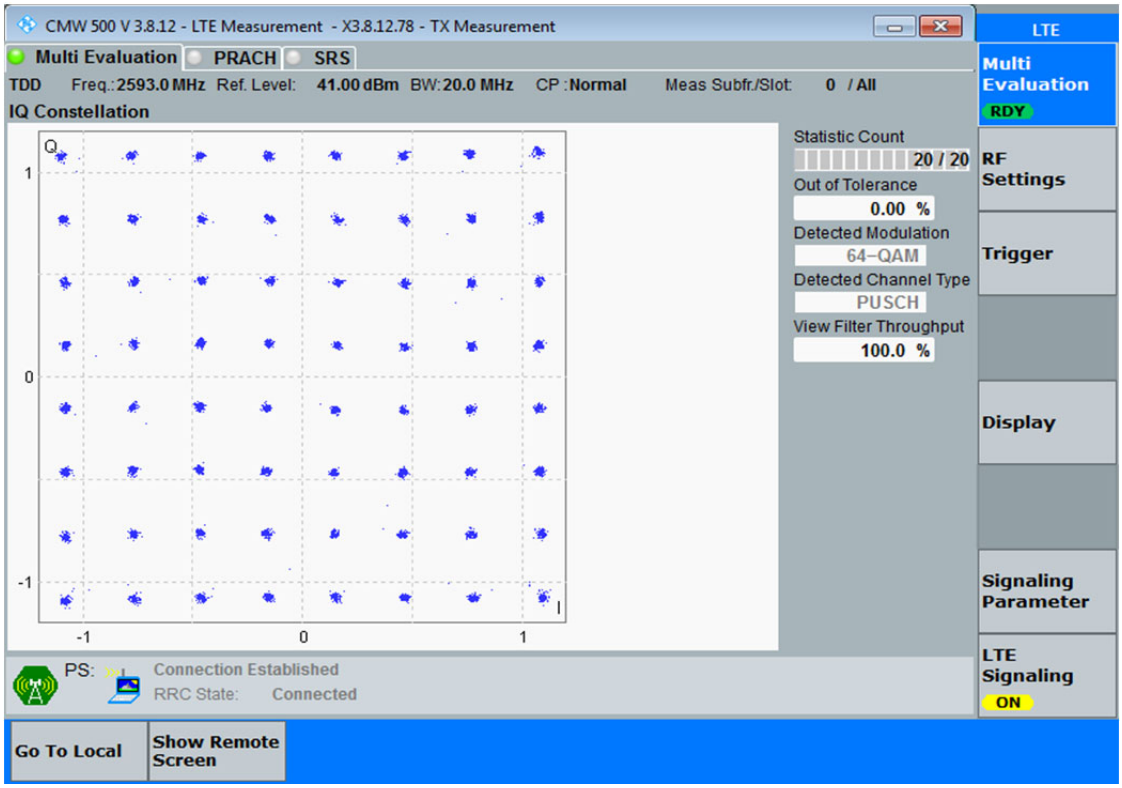


4 Appendix D: Occupied Bandwidth

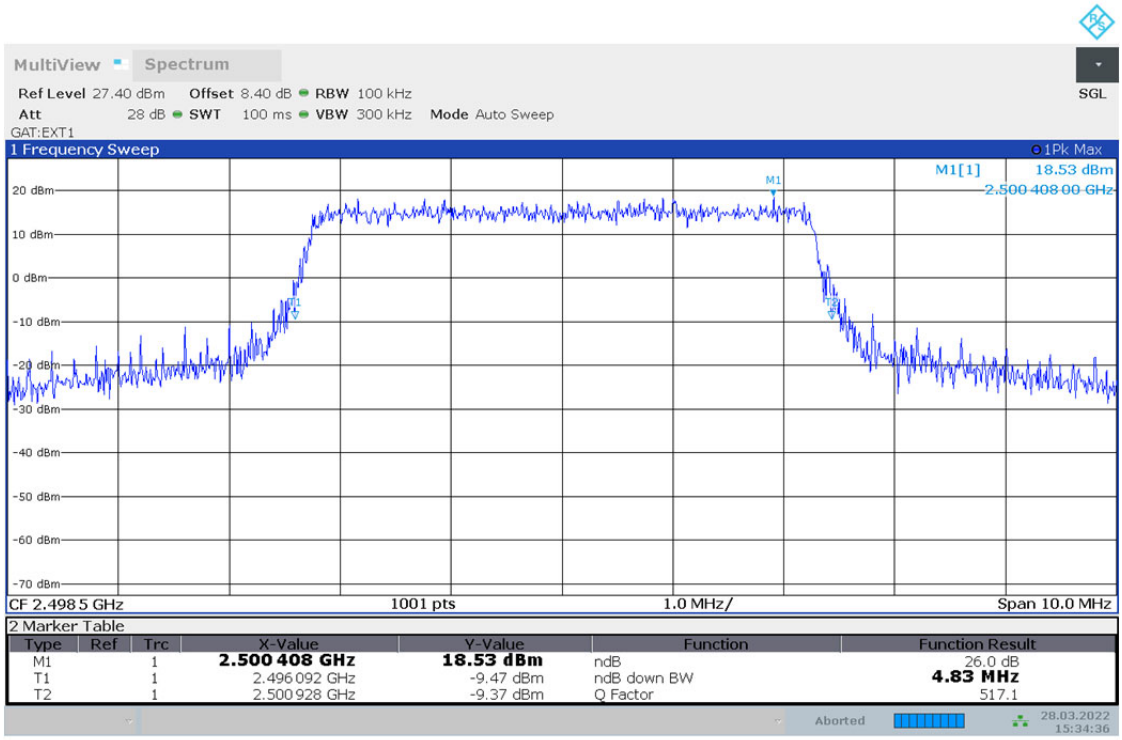
4.1 Test Results

Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM1	5	LCH	RB25#0	QPSK	4.50	4.83	PASS
		MCH	RB25#0	QPSK	4.49	4.80	PASS
		HCH	RB25#0	QPSK	4.50	4.83	PASS
	10	LCH	RB50#0	QPSK	8.94	9.59	PASS
		MCH	RB50#0	QPSK	8.99	9.51	PASS
		HCH	RB50#0	QPSK	8.97	9.63	PASS
	15	LCH	RB75#0	QPSK	13.45	14.15	PASS
		MCH	RB75#0	QPSK	13.43	14.24	PASS
		HCH	RB75#0	QPSK	13.44	14.27	PASS
	20	LCH	RB100#0	QPSK	18.04	19.82	PASS
		MCH	RB100#0	QPSK	18.00	19.54	PASS
		HCH	RB100#0	QPSK	18.02	19.78	PASS
TM2	5	LCH	RB25#0	16QAM	4.49	4.83	PASS
		MCH	RB25#0	16QAM	4.50	4.75	PASS
		HCH	RB25#0	16QAM	4.48	4.79	PASS
	10	LCH	RB50#0	16QAM	9.00	9.91	PASS
		MCH	RB50#0	16QAM	9.00	9.81	PASS
		HCH	RB50#0	16QAM	8.99	9.89	PASS
	15	LCH	RB75#0	16QAM	13.47	14.65	PASS
		MCH	RB75#0	16QAM	13.49	14.65	PASS
		HCH	RB75#0	16QAM	13.51	14.74	PASS
	20	LCH	RB100#0	16QAM	18.04	19.86	PASS
		MCH	RB100#0	16QAM	18.04	19.86	PASS
		HCH	RB100#0	16QAM	18.05	19.70	PASS
TM3	5	LCH	RB25#0	64QAM	4.48	4.78	PASS
		MCH	RB25#0	64QAM	4.48	4.75	PASS
		HCH	RB25#0	64QAM	4.49	4.72	PASS
	10	LCH	RB50#0	64QAM	9.00	9.91	PASS
		MCH	RB50#0	64QAM	9.00	9.91	PASS
		HCH	RB50#0	64QAM	9.00	9.99	PASS
	15	LCH	RB75#0	64QAM	13.47	14.80	PASS
		MCH	RB75#0	64QAM	13.48	14.80	PASS
		HCH	RB75#0	64QAM	13.46	14.78	PASS

Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM3	20	LCH	RB100#0	64QAM	18.07	19.86	PASS
		MCH	RB100#0	64QAM	18.02	19.82	PASS
		HCH	RB100#0	64QAM	18.05	19.78	PASS

4.2 Test Plots

4.2.1 TM1_5MHz_LCH_RB25#0



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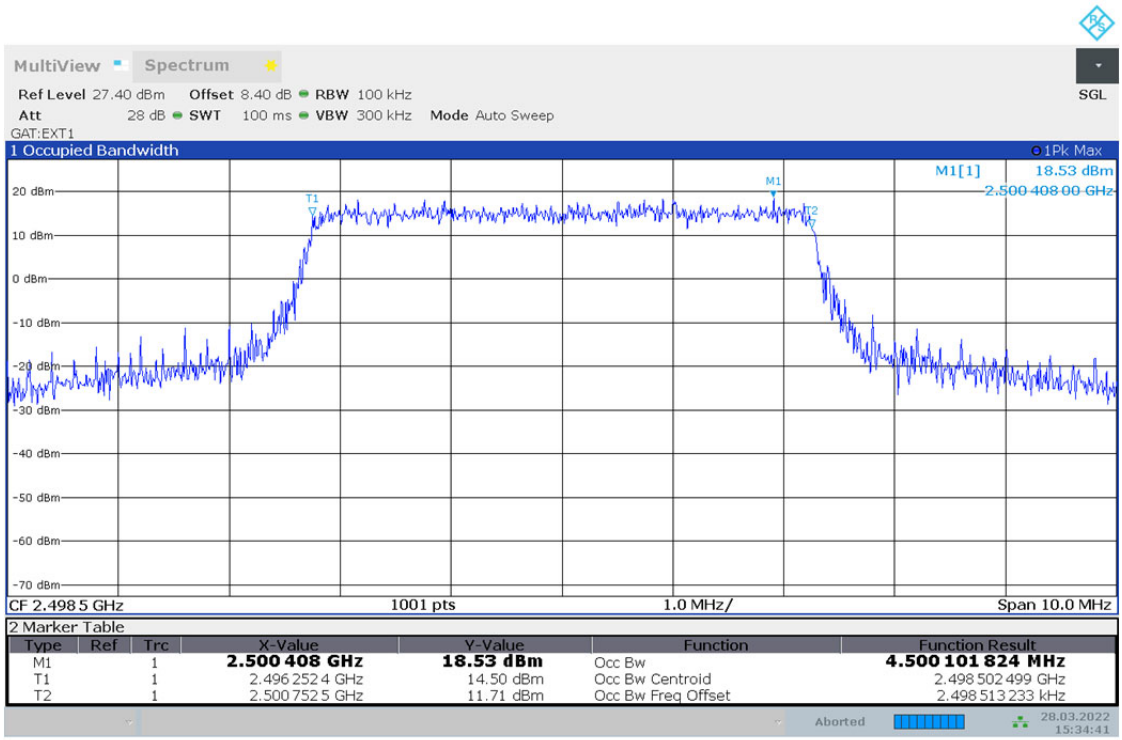

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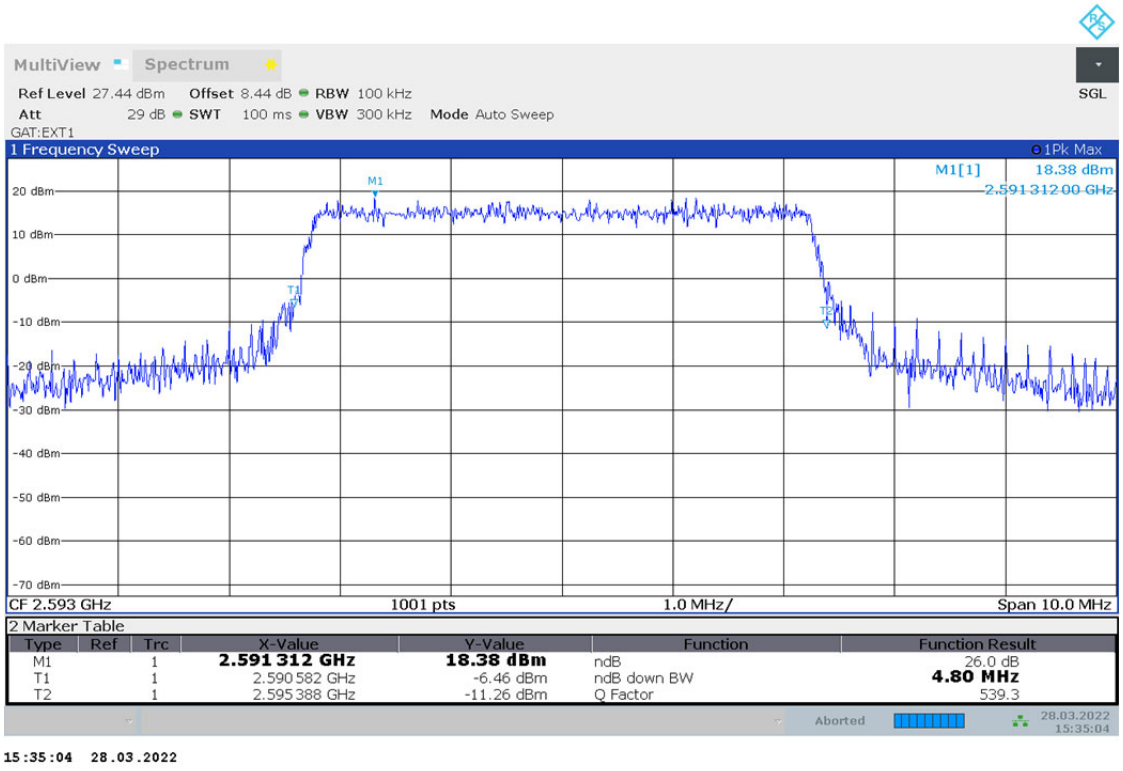

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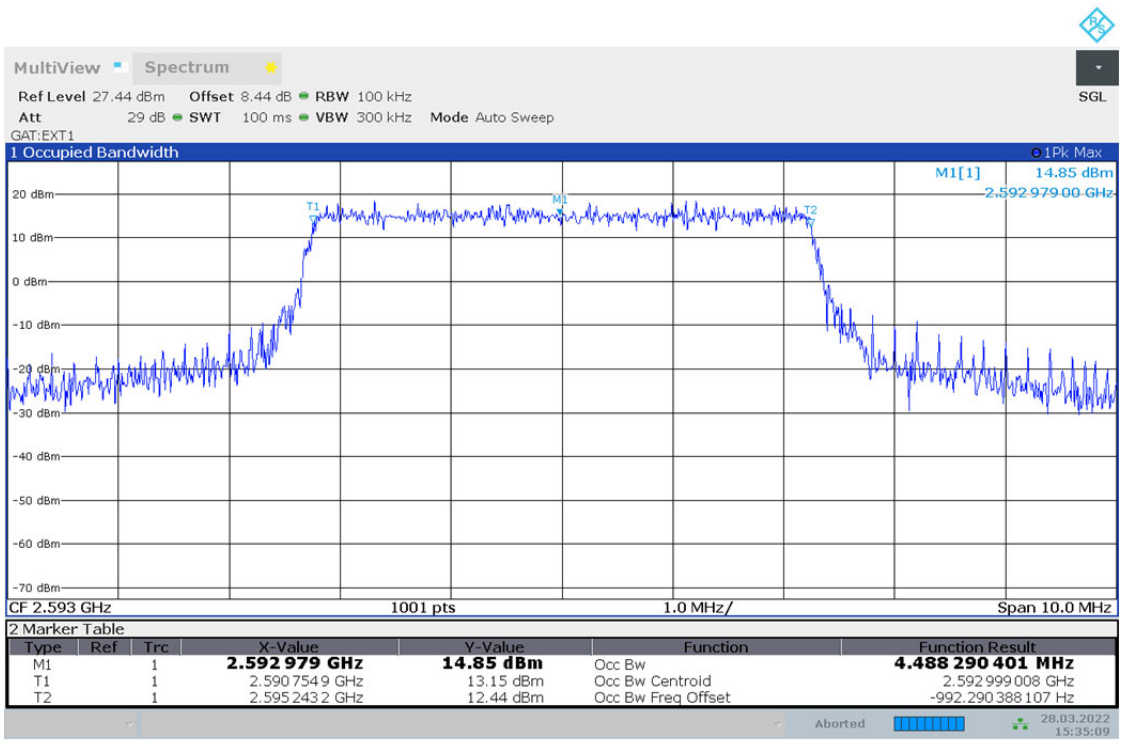

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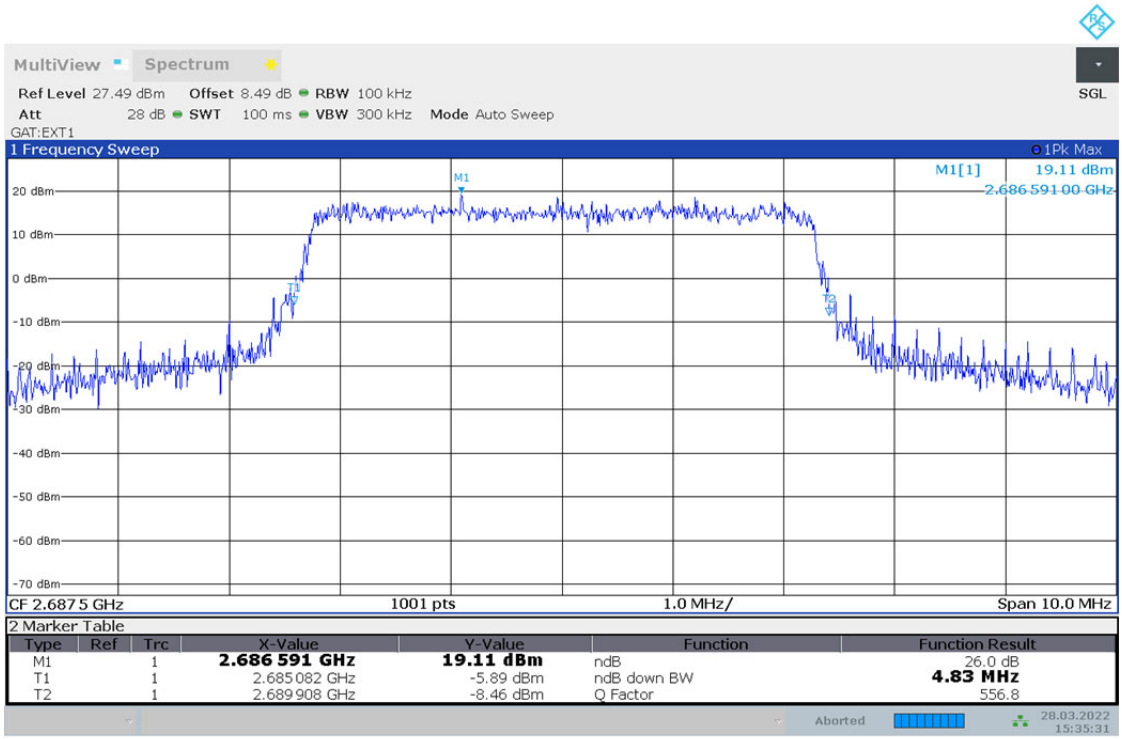

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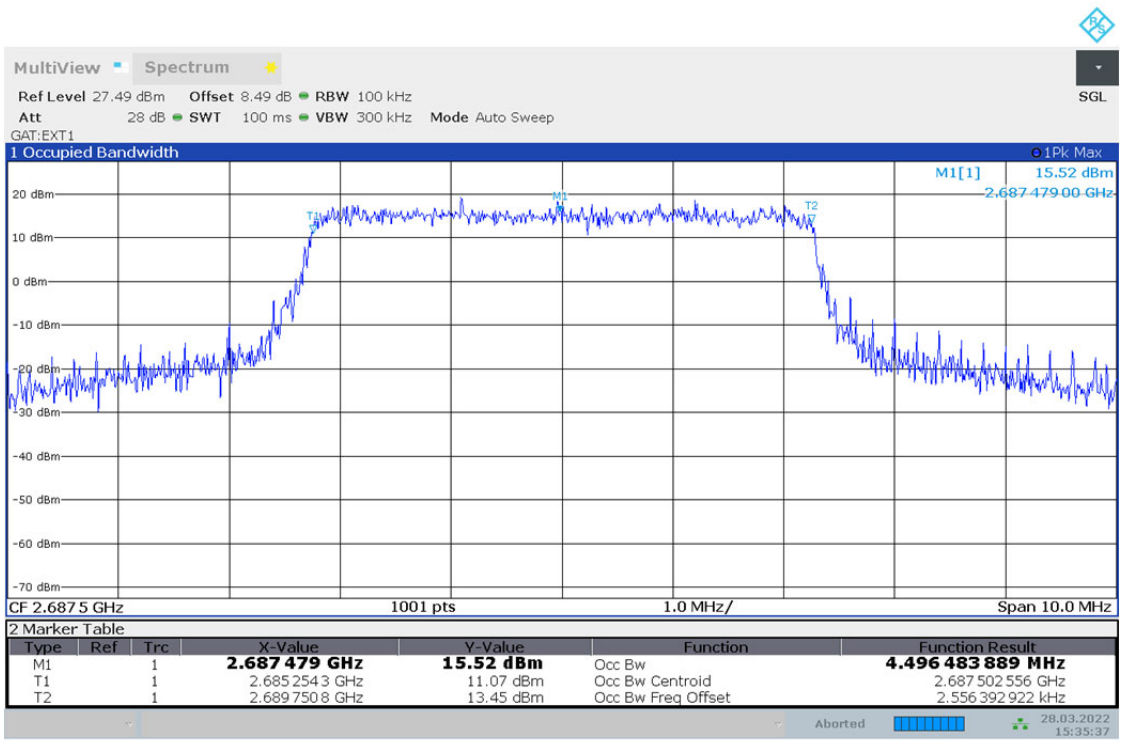

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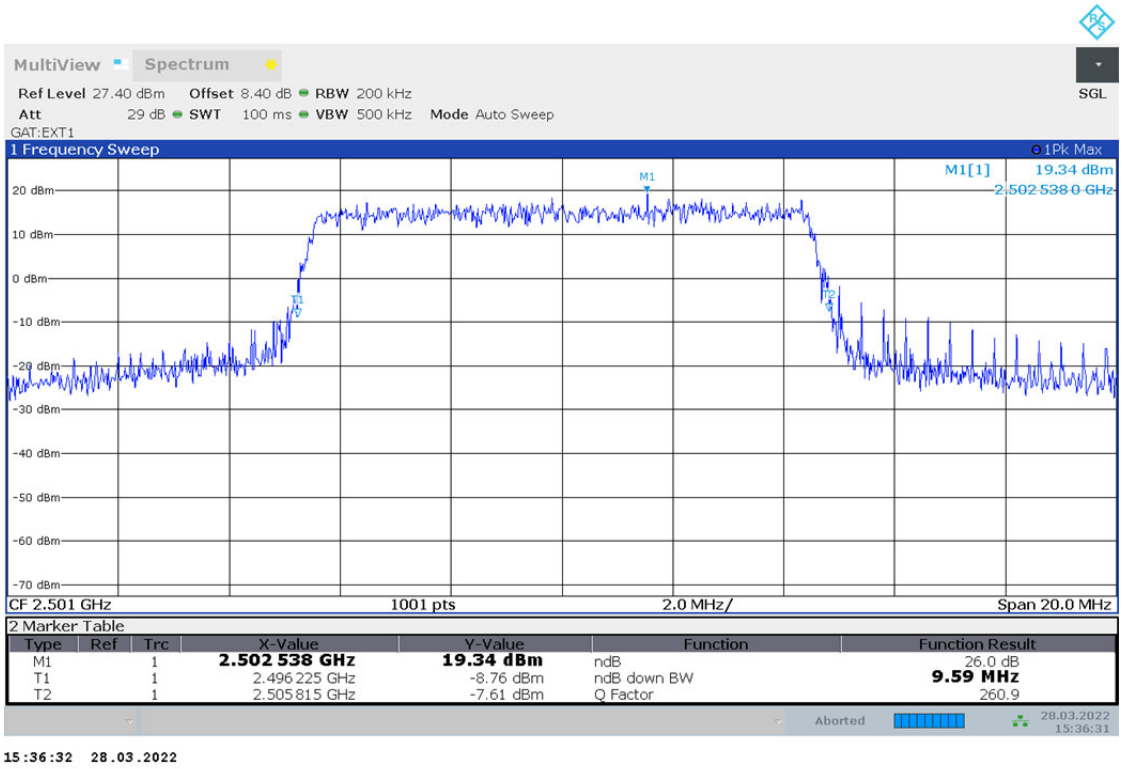

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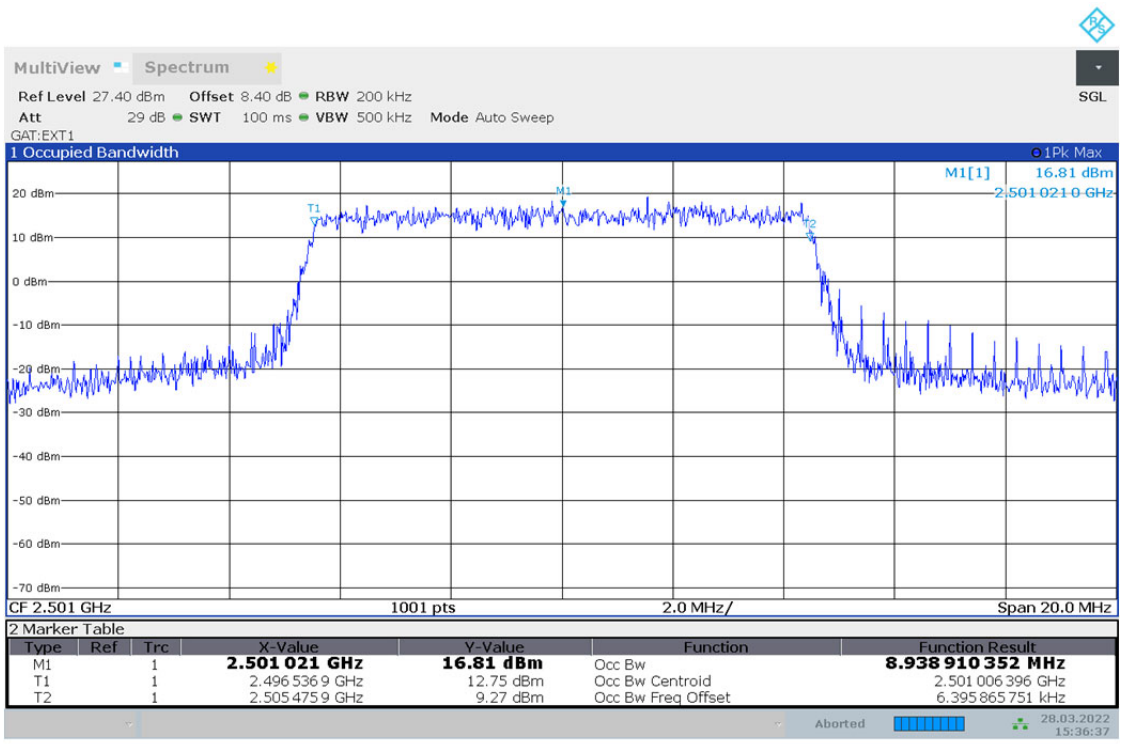

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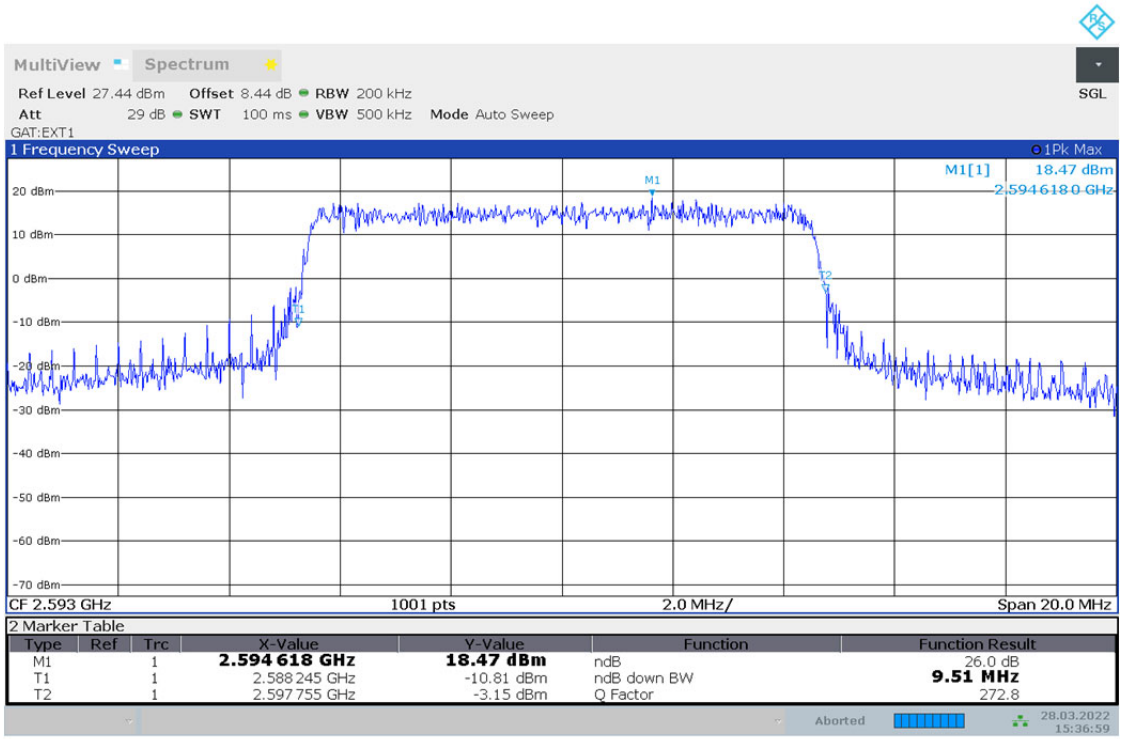
4.2.5 TM1_10MHz_MCH_RB50#0



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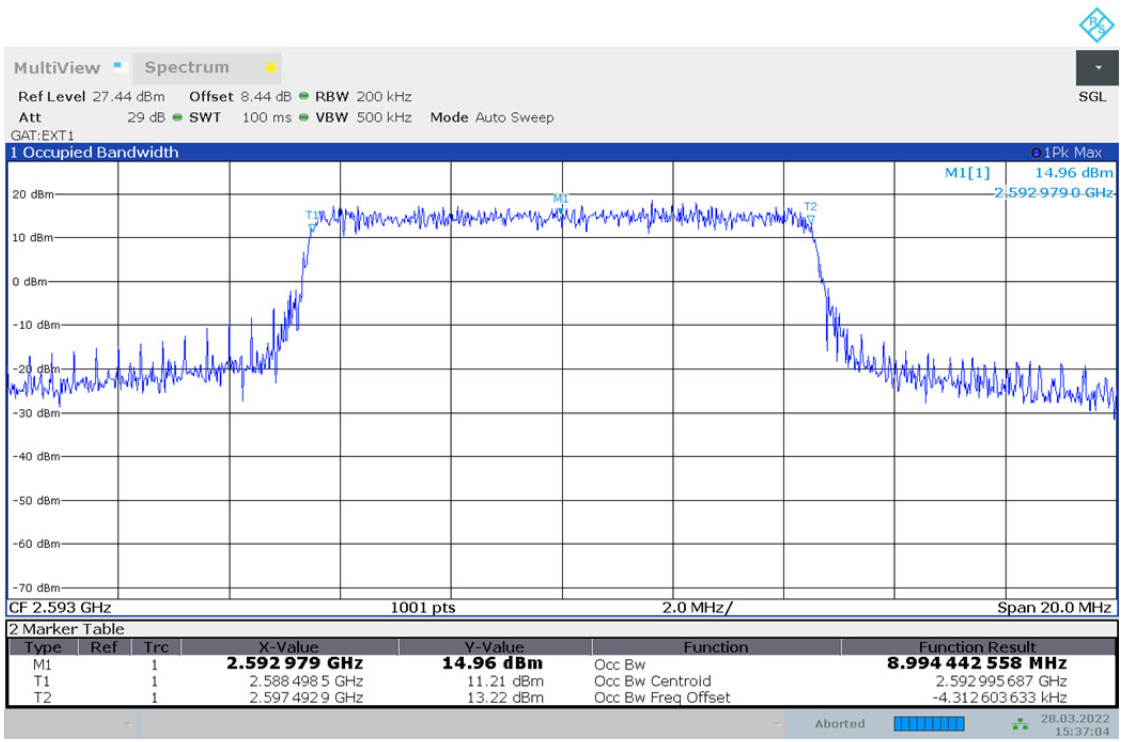

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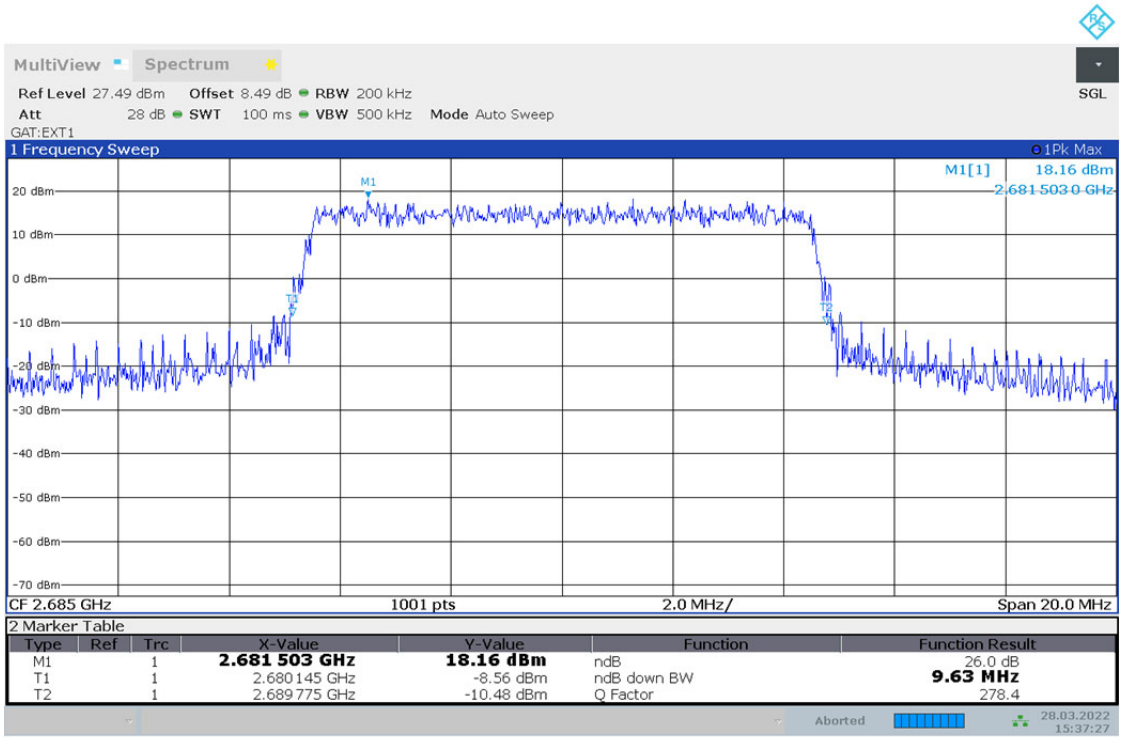

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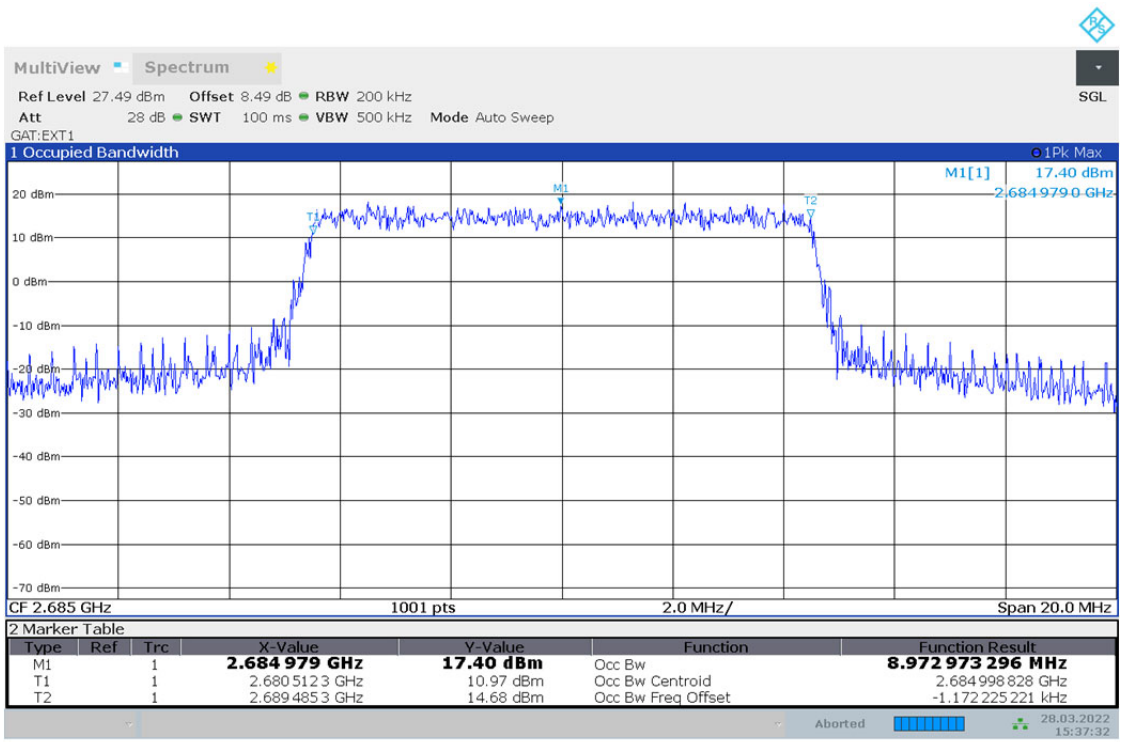

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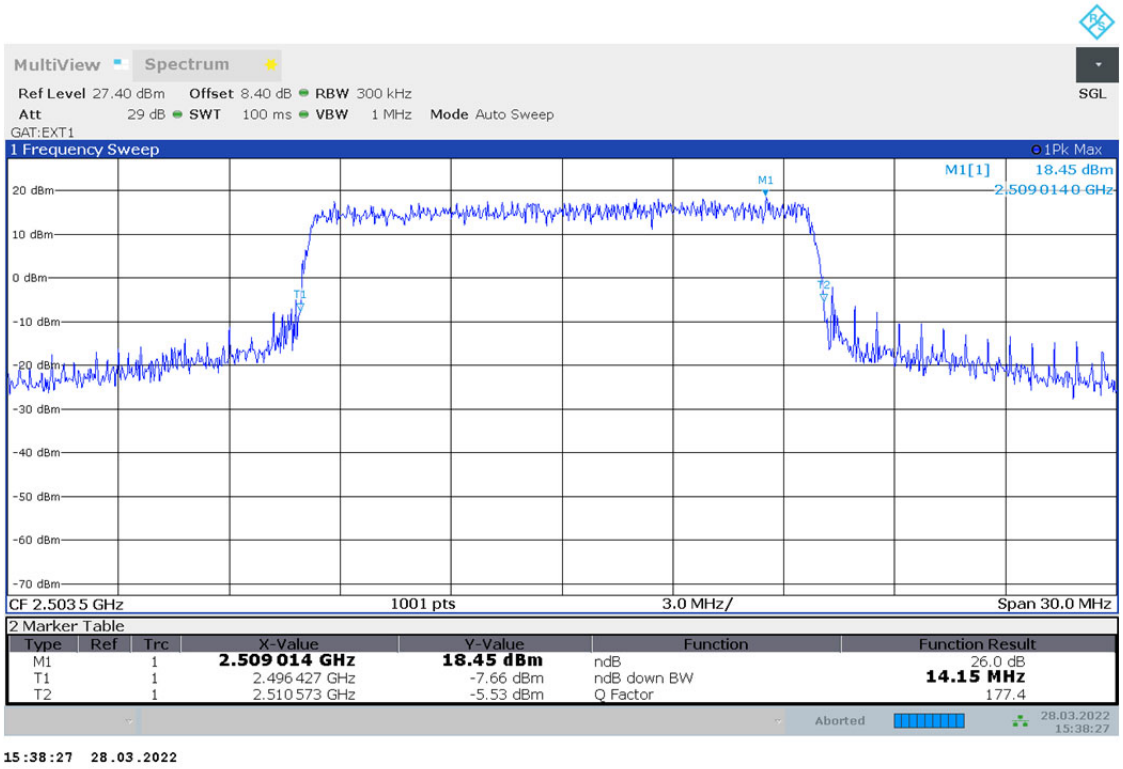
4.2.7 TM1_15MHz_LCH_RB75#0



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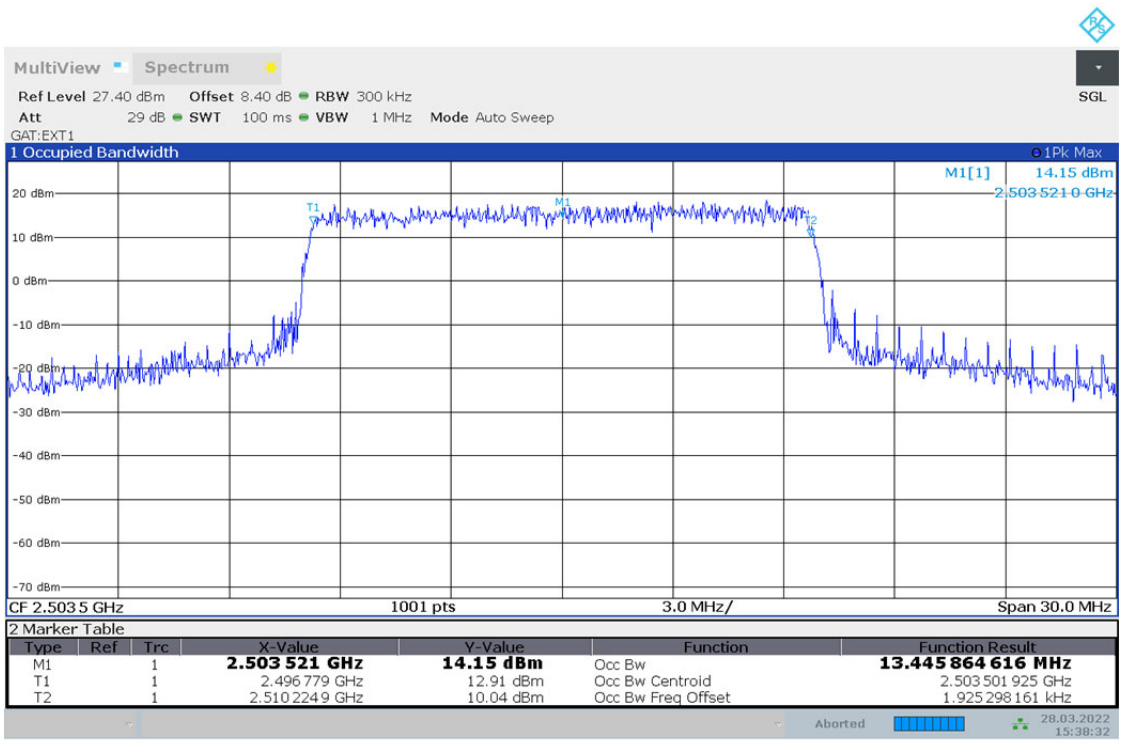

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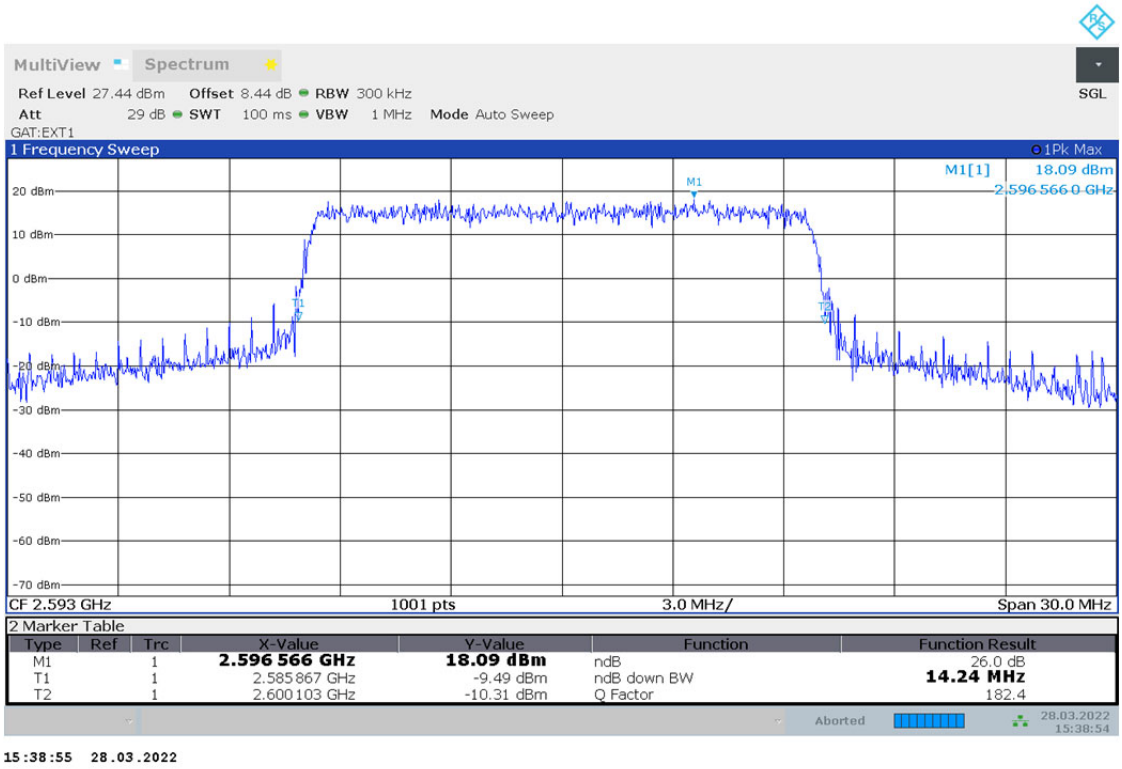
4.2.8 TM1_15MHz_MCH_RB75#0



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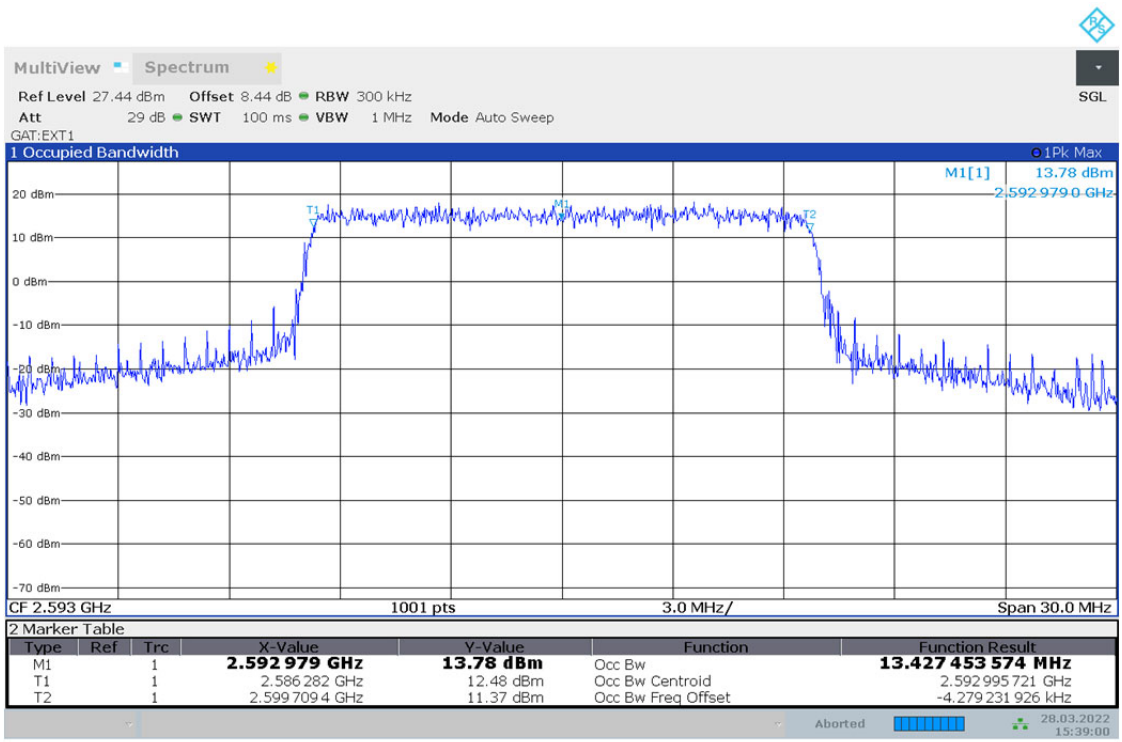

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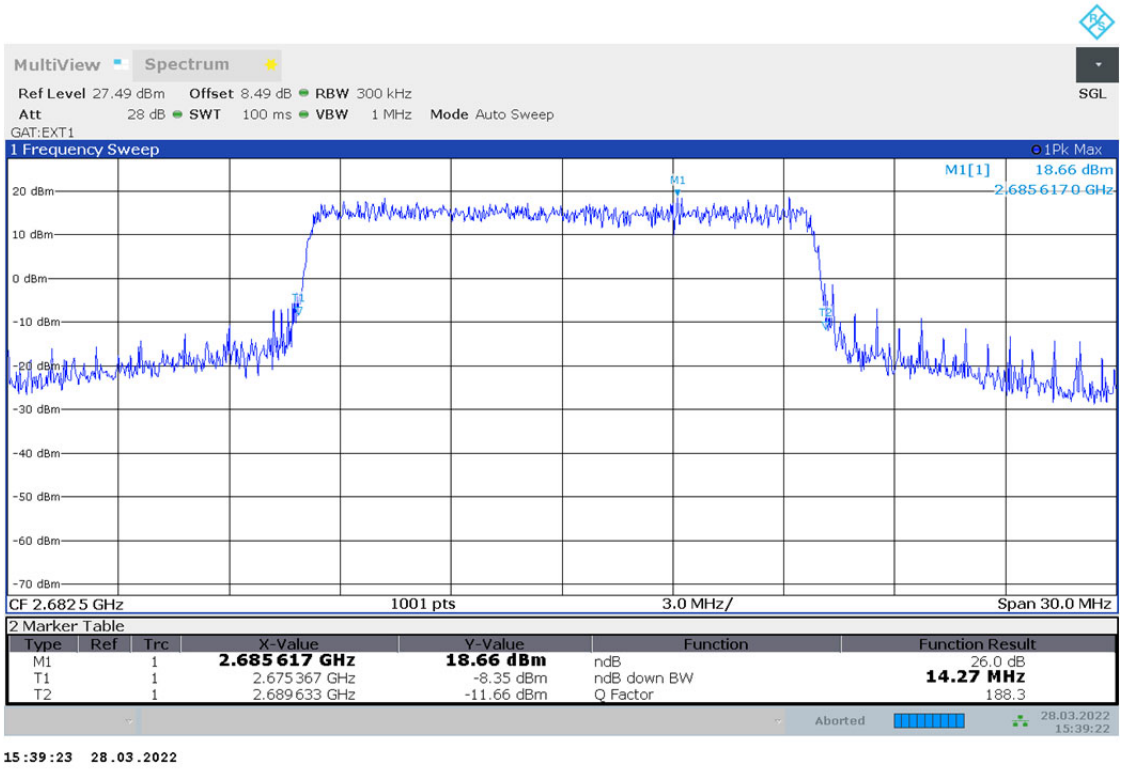
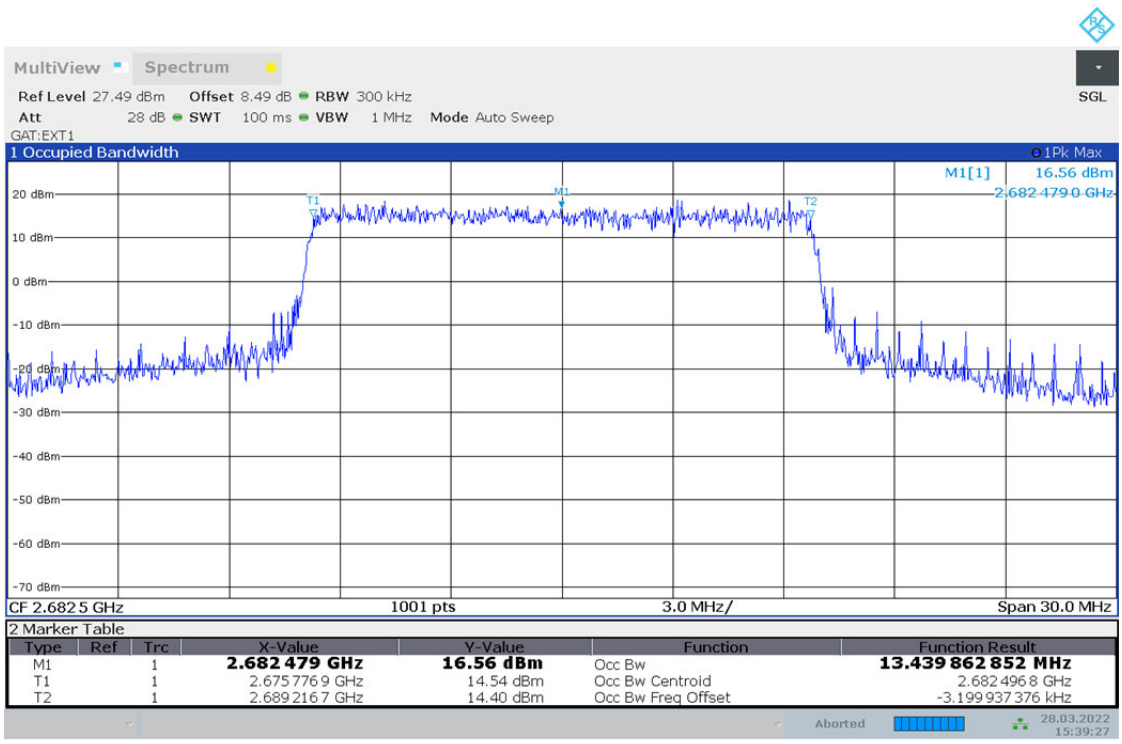
4.2.9 TM1_15MHz_HCH_RB75#0



15:39:23 28.03.2022



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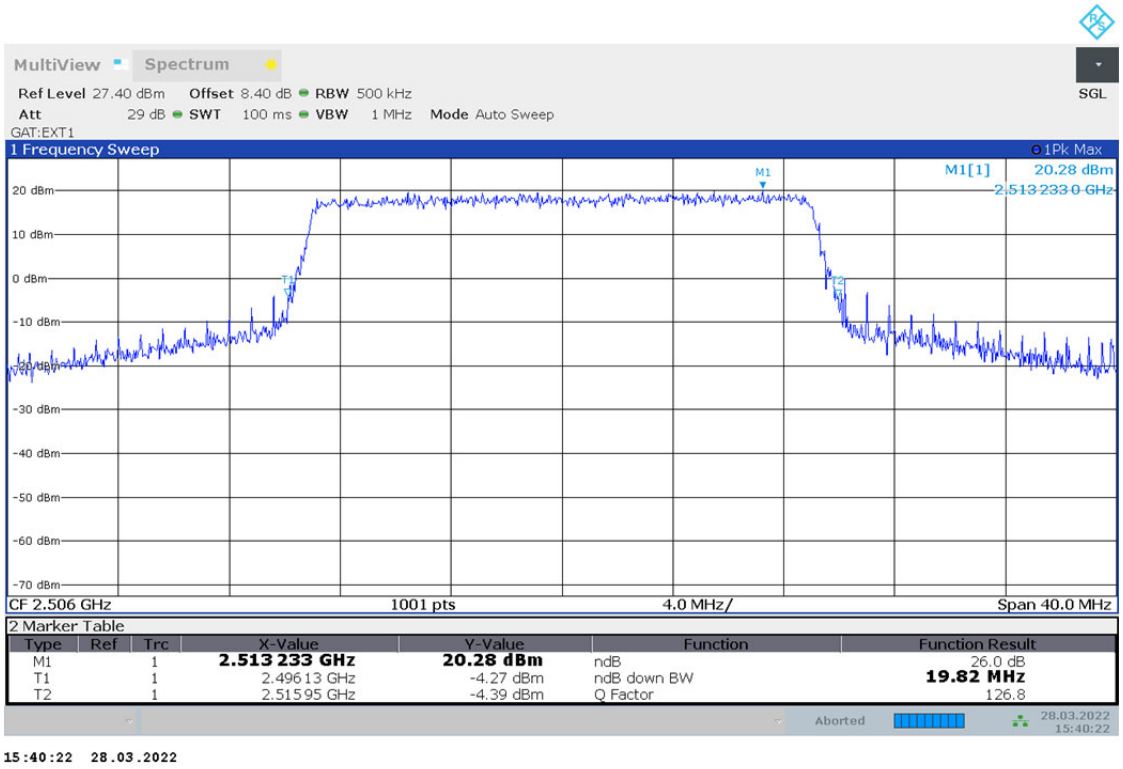
4.2.10 TM1_20MHz_LCH_RB100#0



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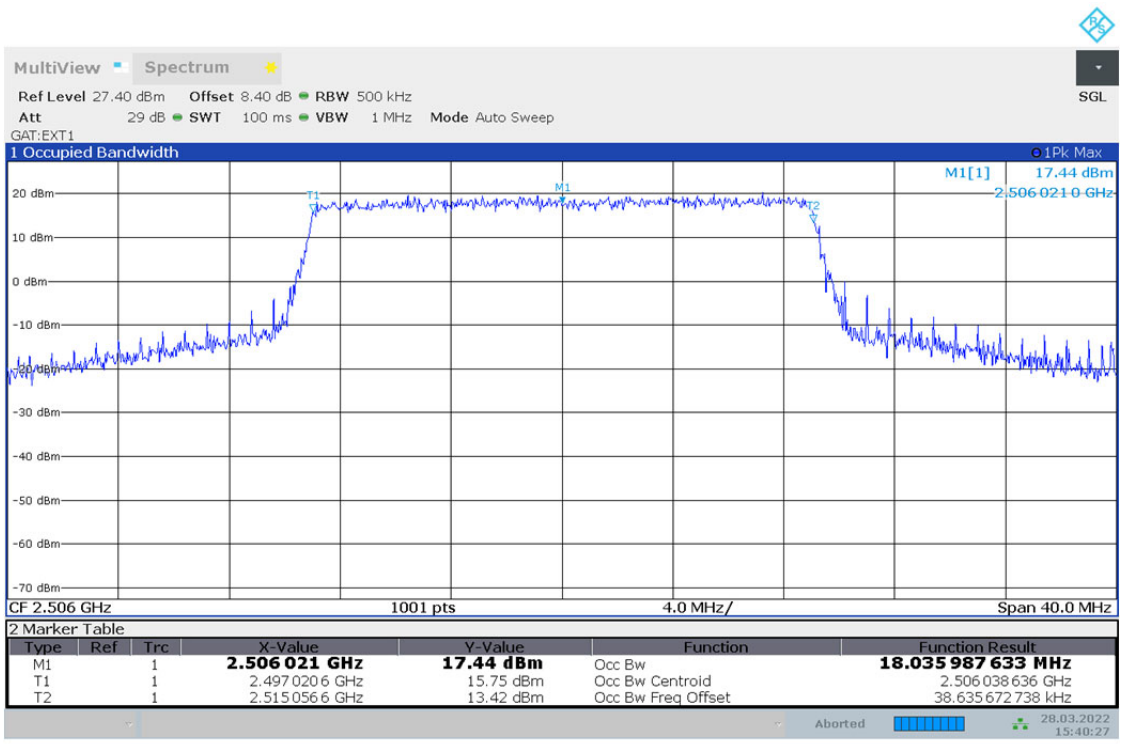

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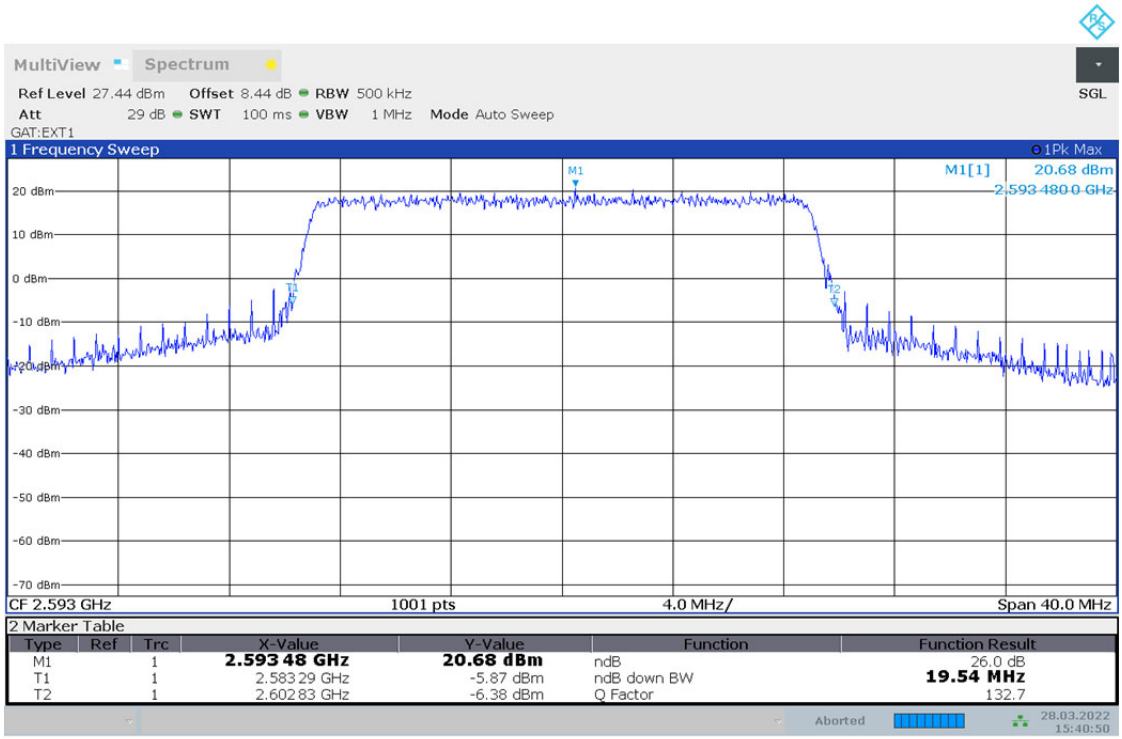
4.2.11 TM1_20MHz_MCH_RB100#0



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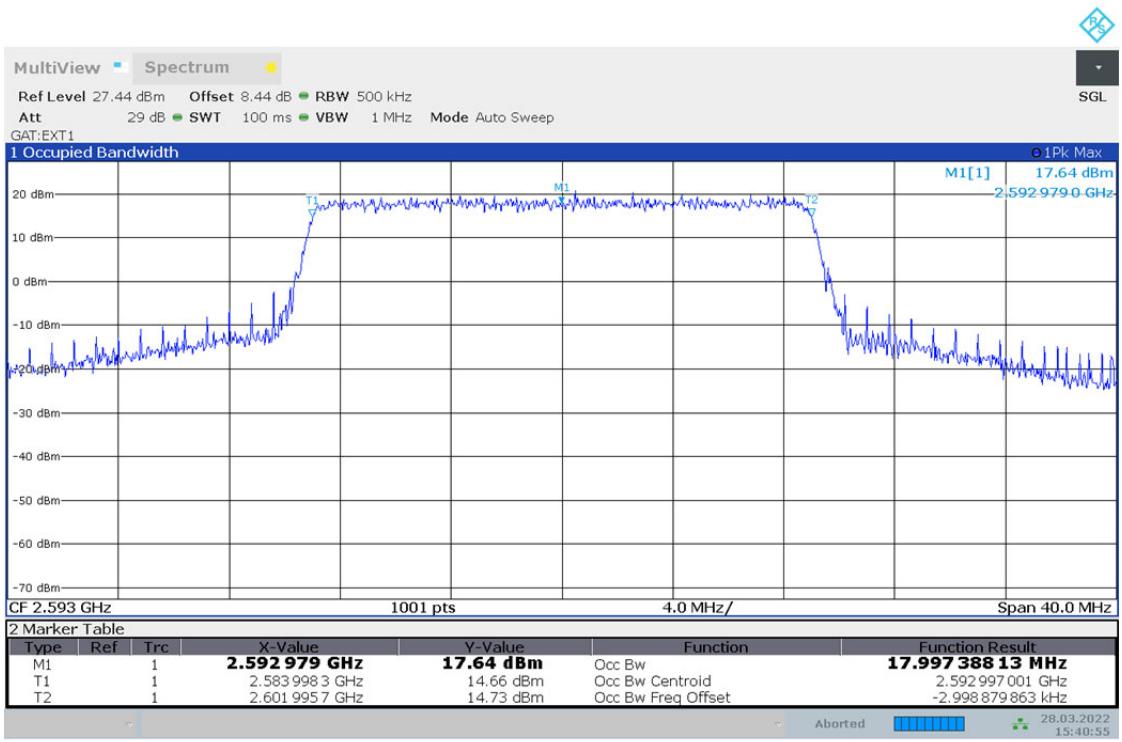

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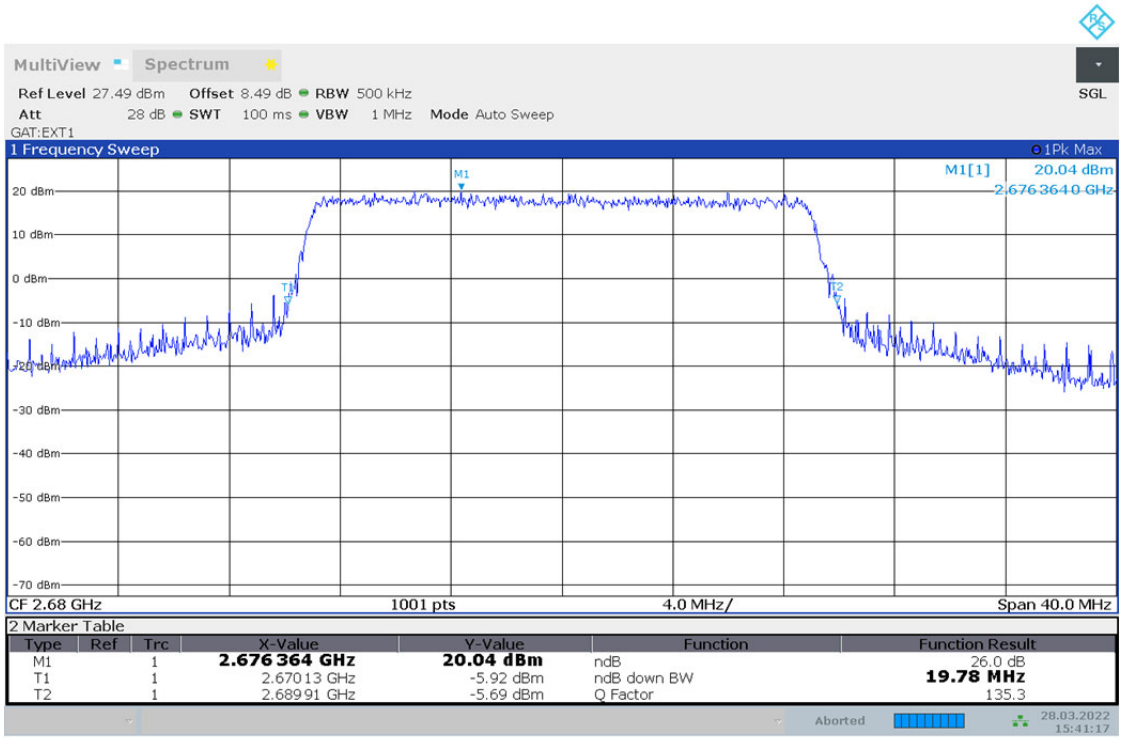
4.2.12 TM1_20MHz_HCH_RB100#0



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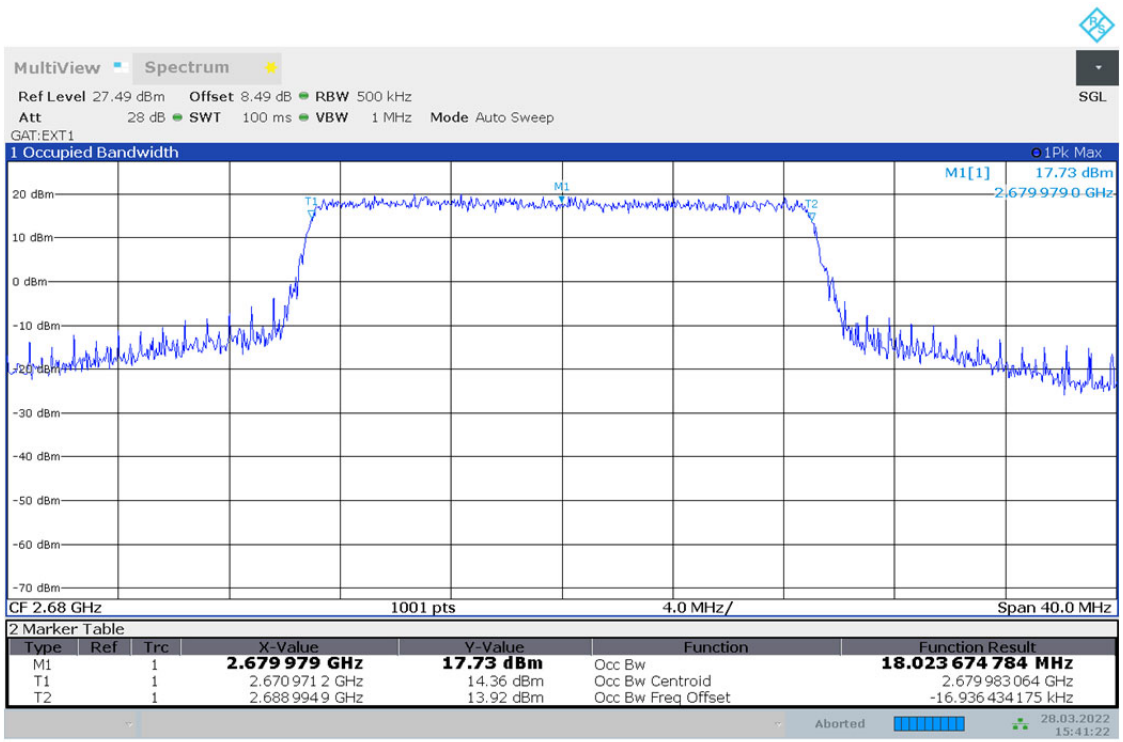

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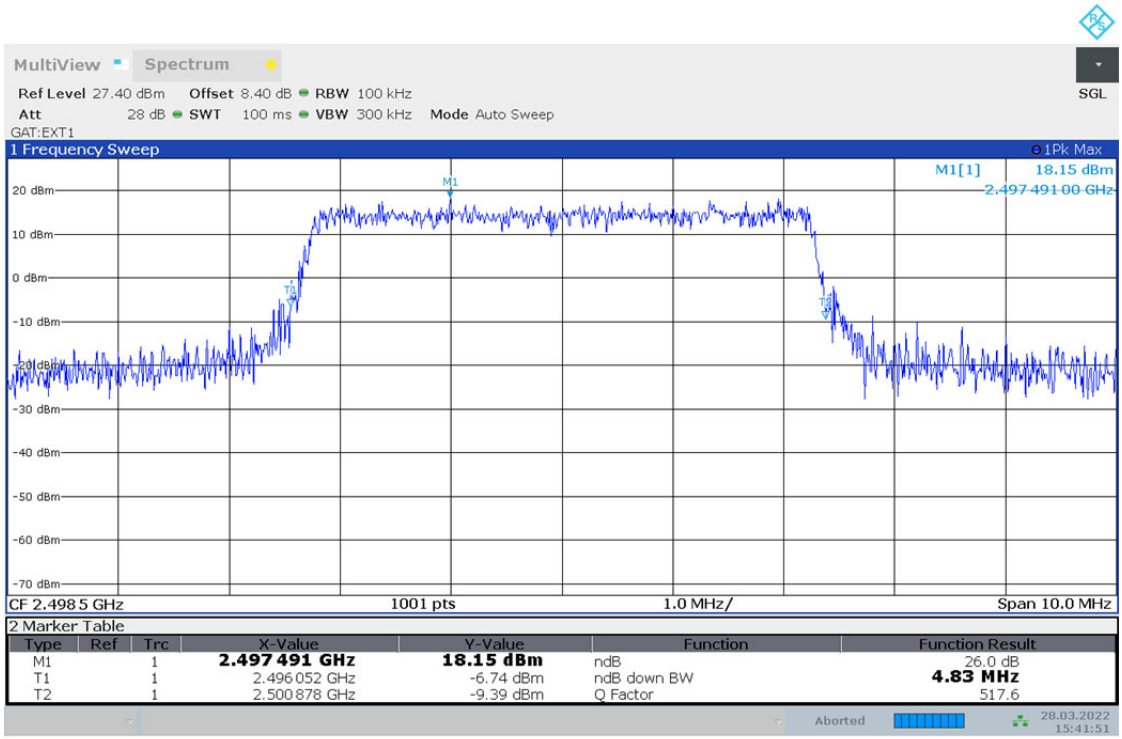
4.2.13 TM2_5MHz_LCH_RB25#0



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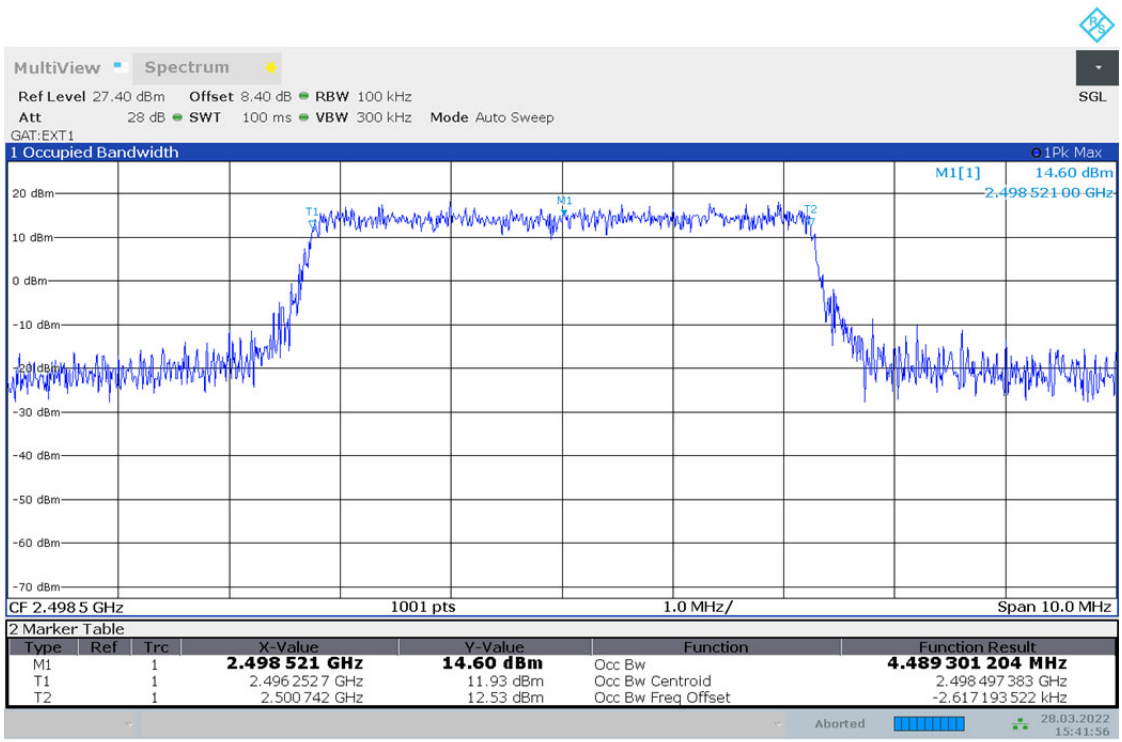

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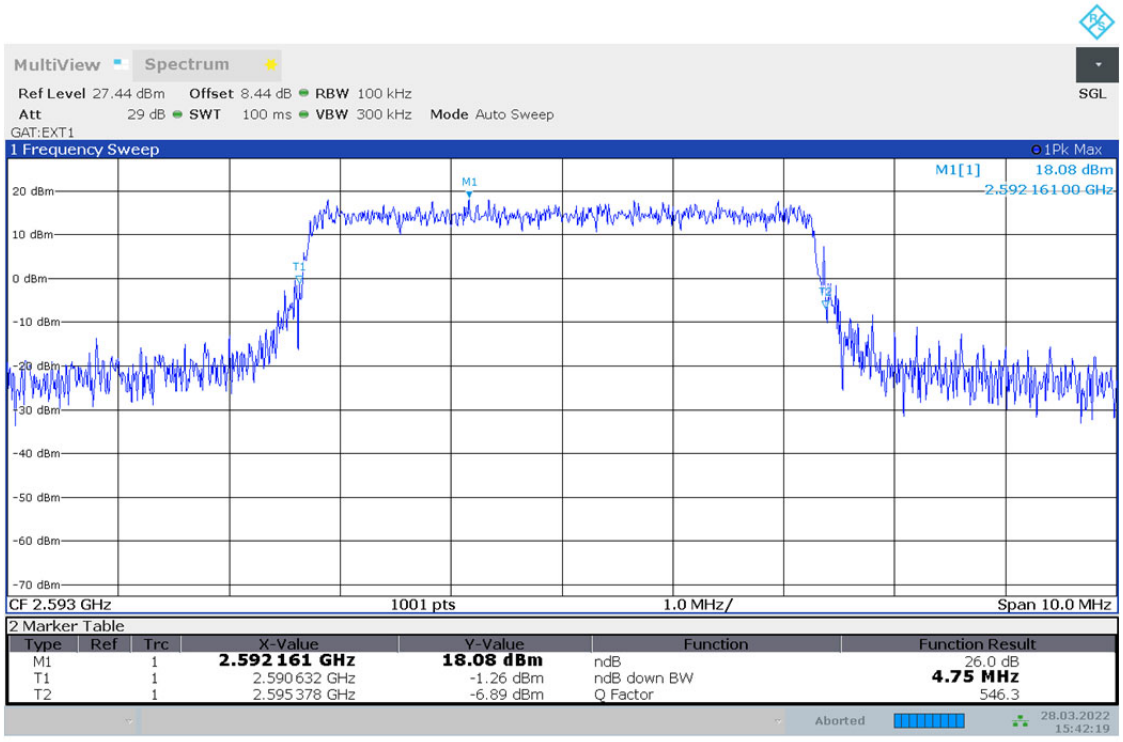
4.2.14 TM2_5MHz_MCH_RB25#0



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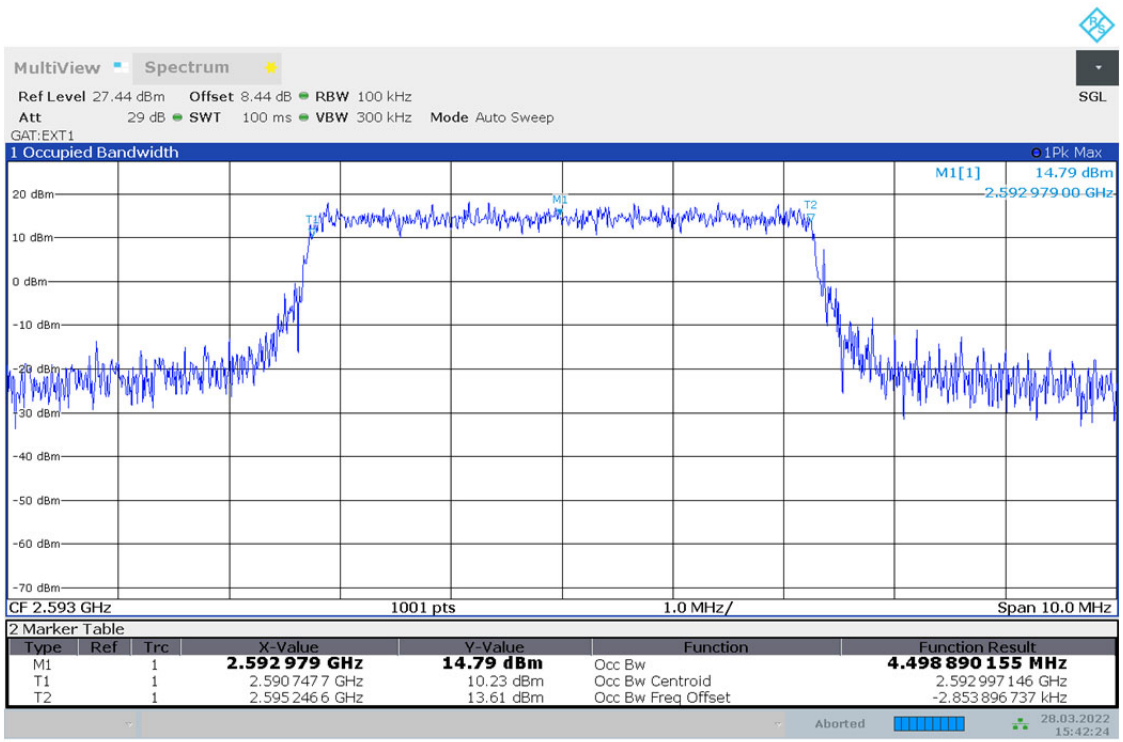

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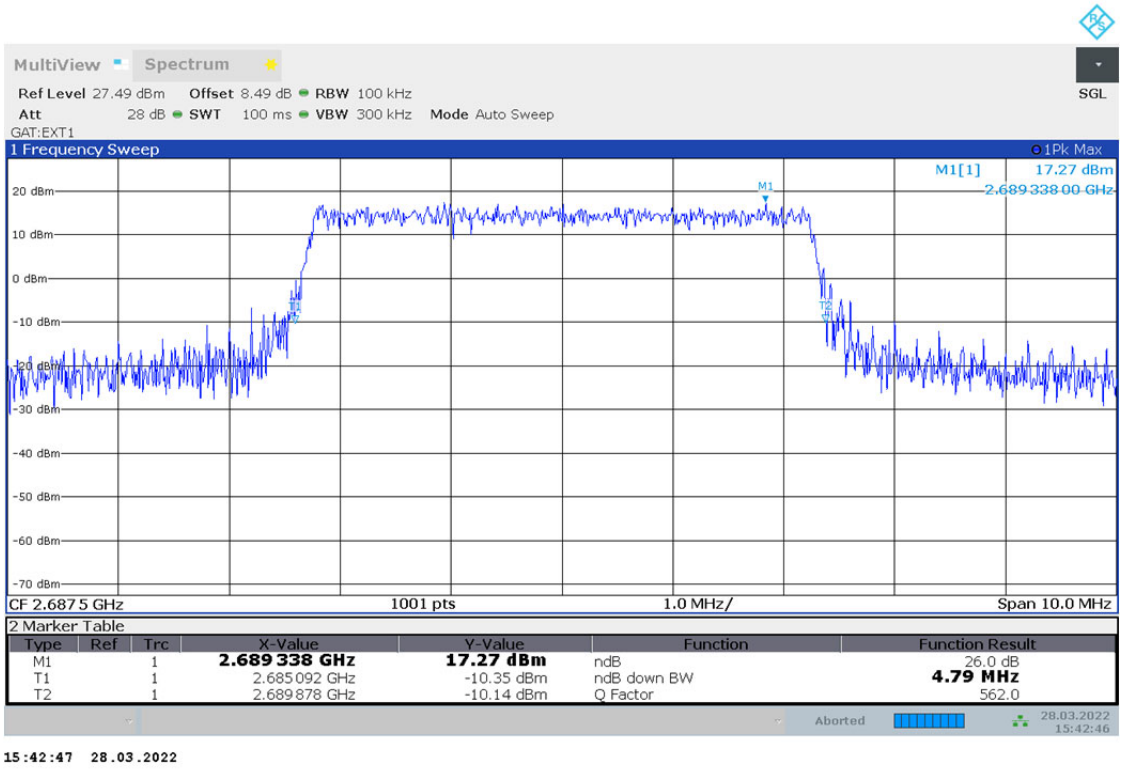
4.2.15 TM2_5MHz_HCH_RB25#0



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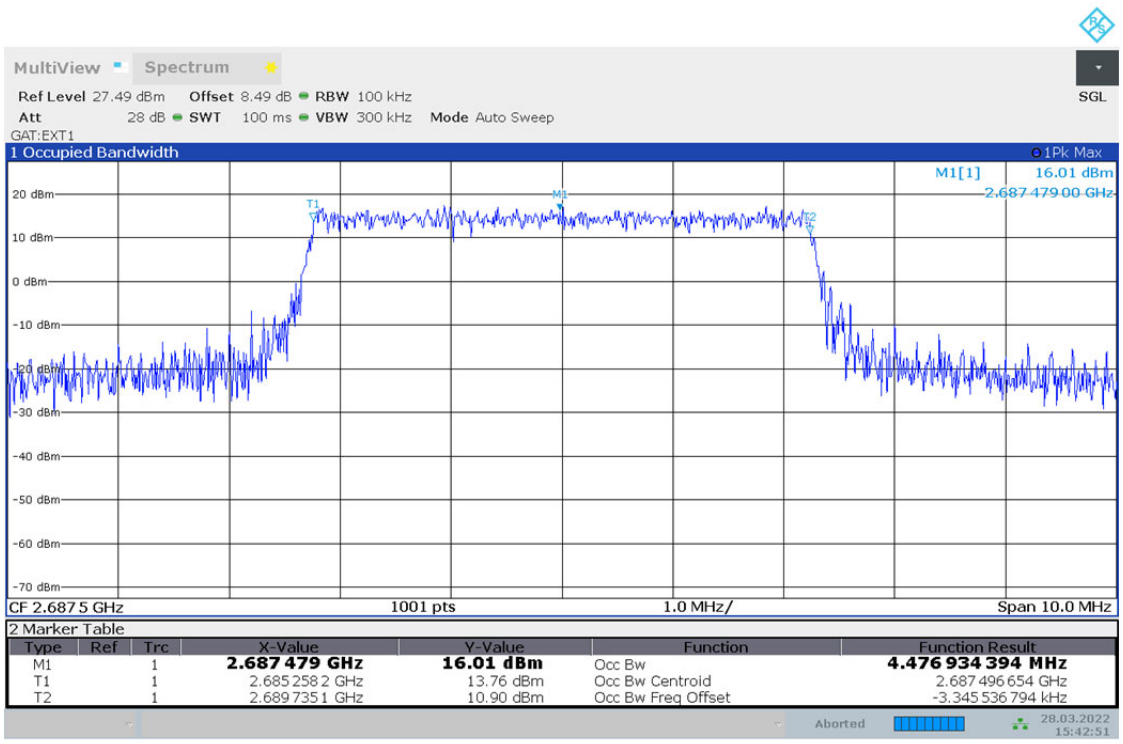

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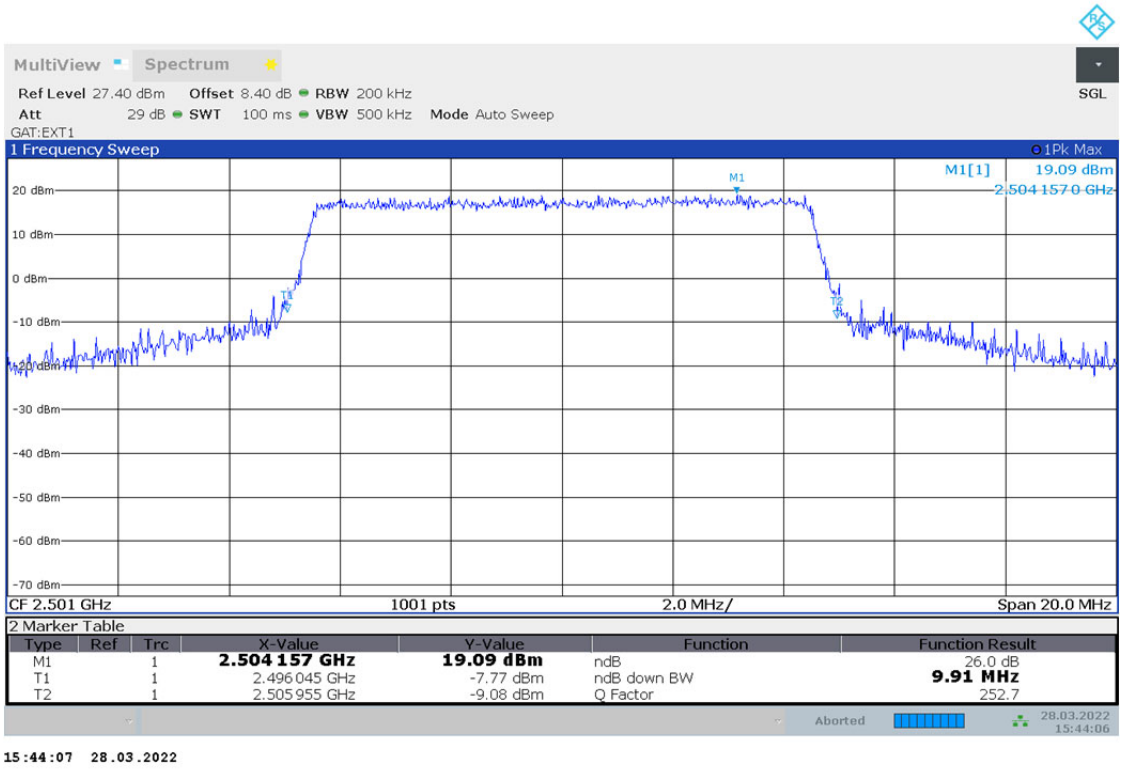
4.2.16 TM2_10MHz_LCH_RB50#0



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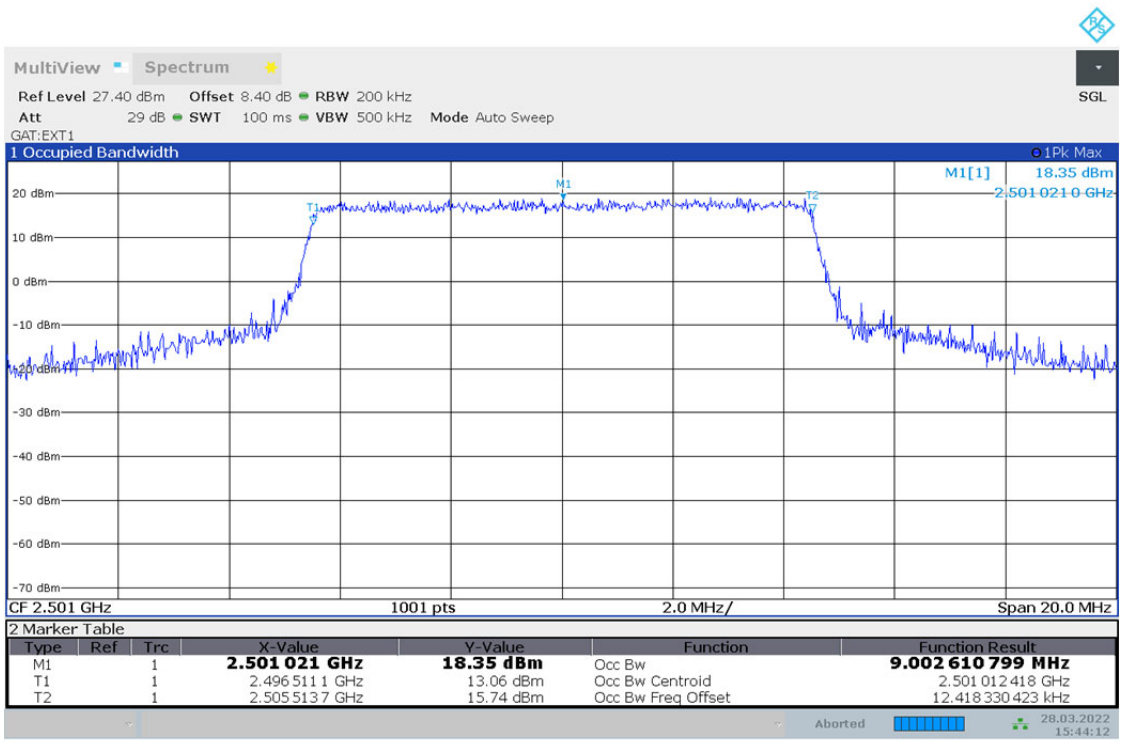

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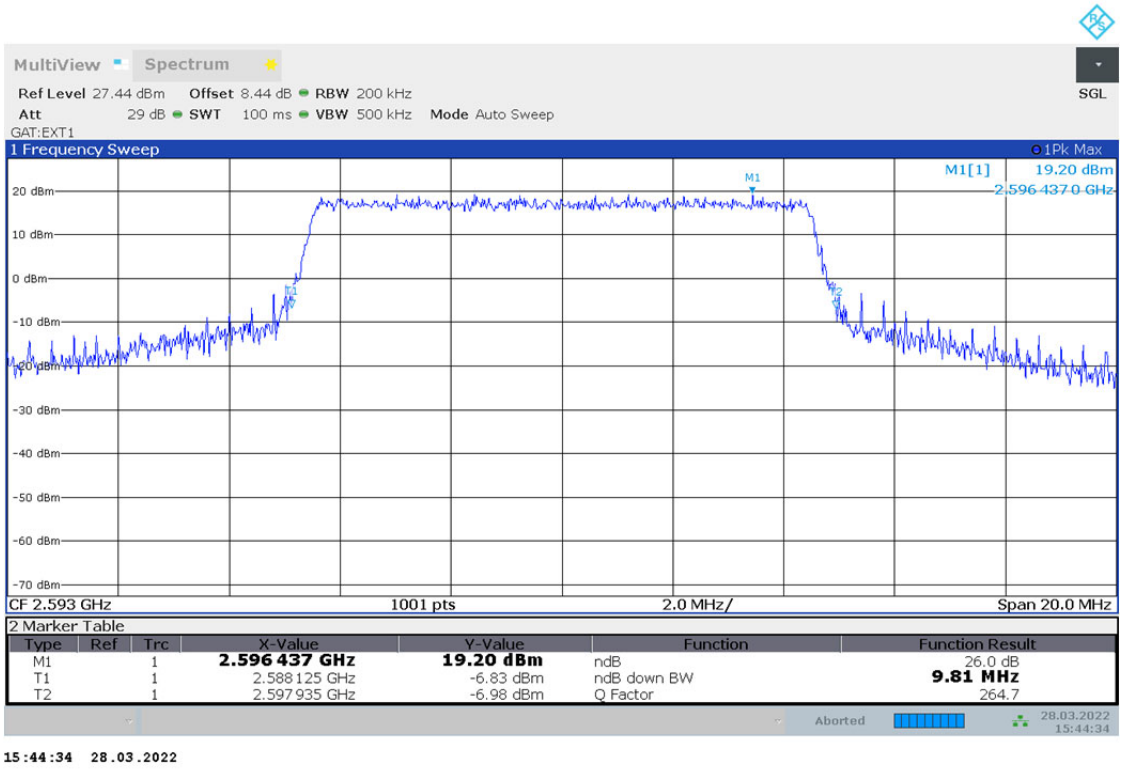
4.2.17 TM2_10MHz_MCH_RB50#0



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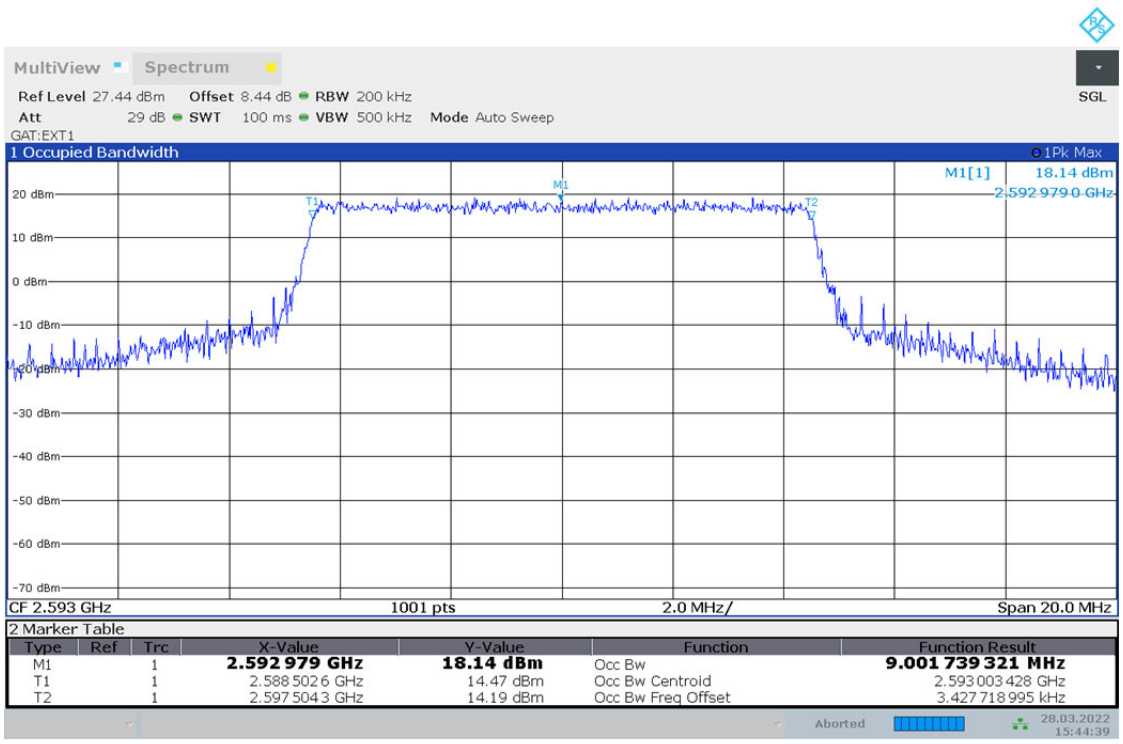

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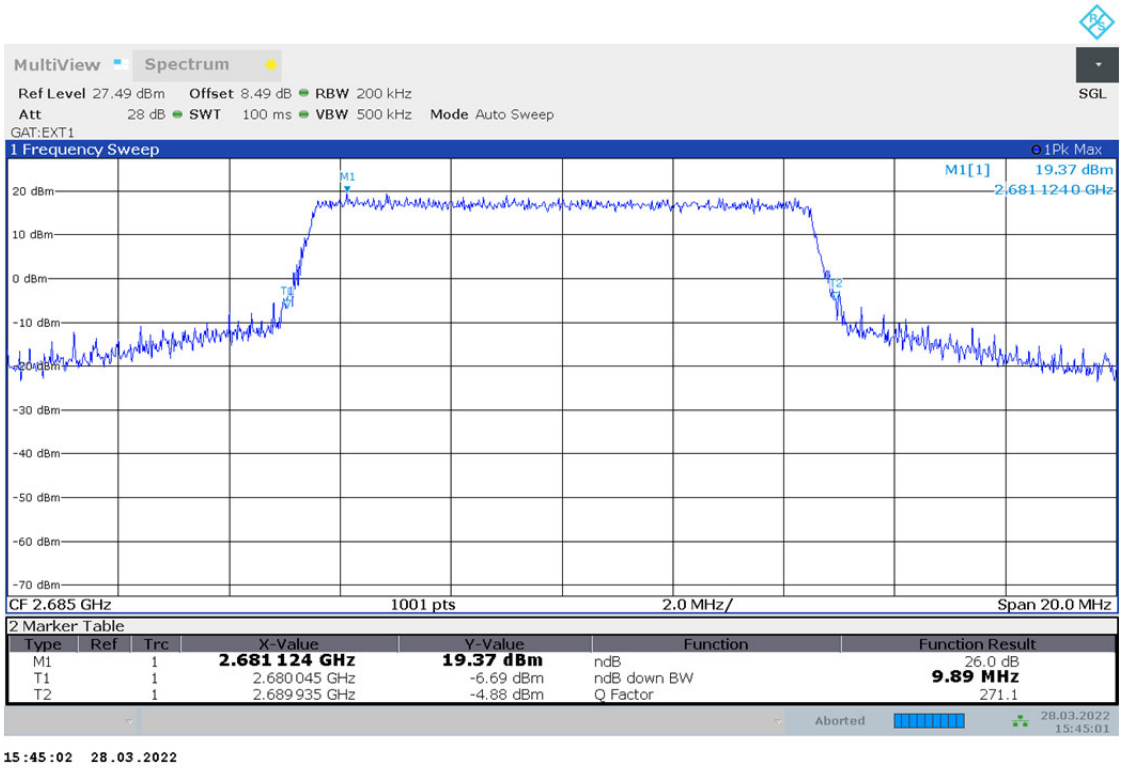
4.2.18 TM2_10MHz_HCH_RB50#0



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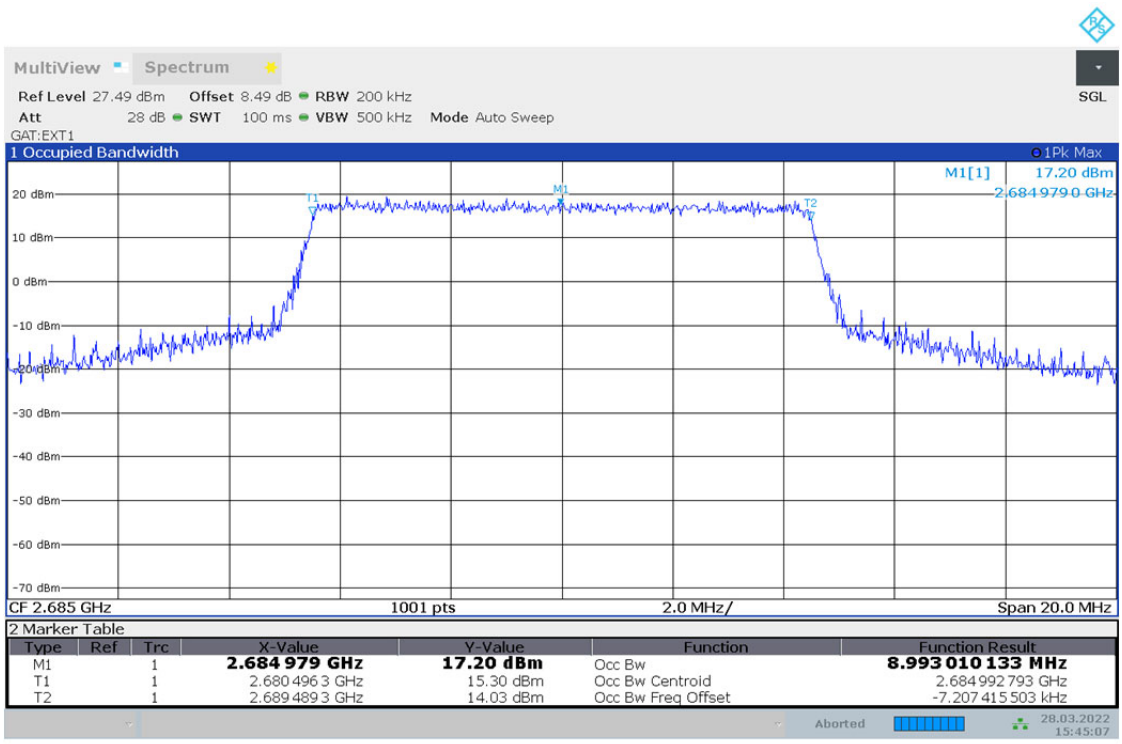

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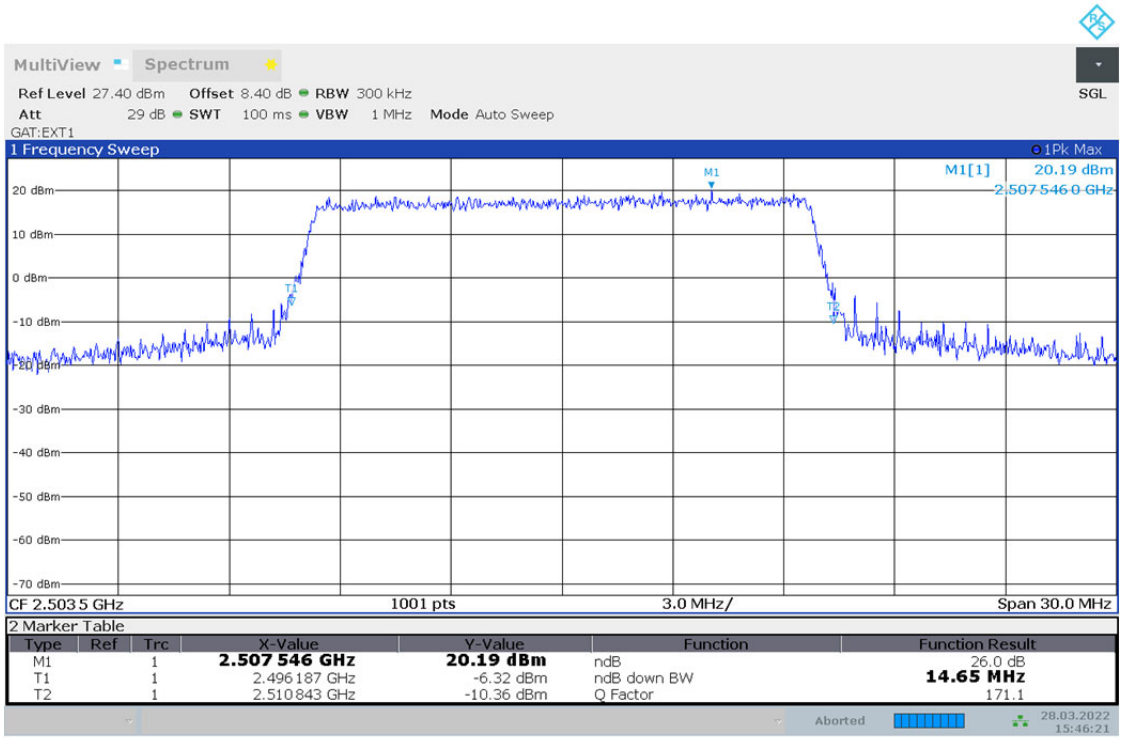
4.2.19 TM2_15MHz_LCH_RB75#0



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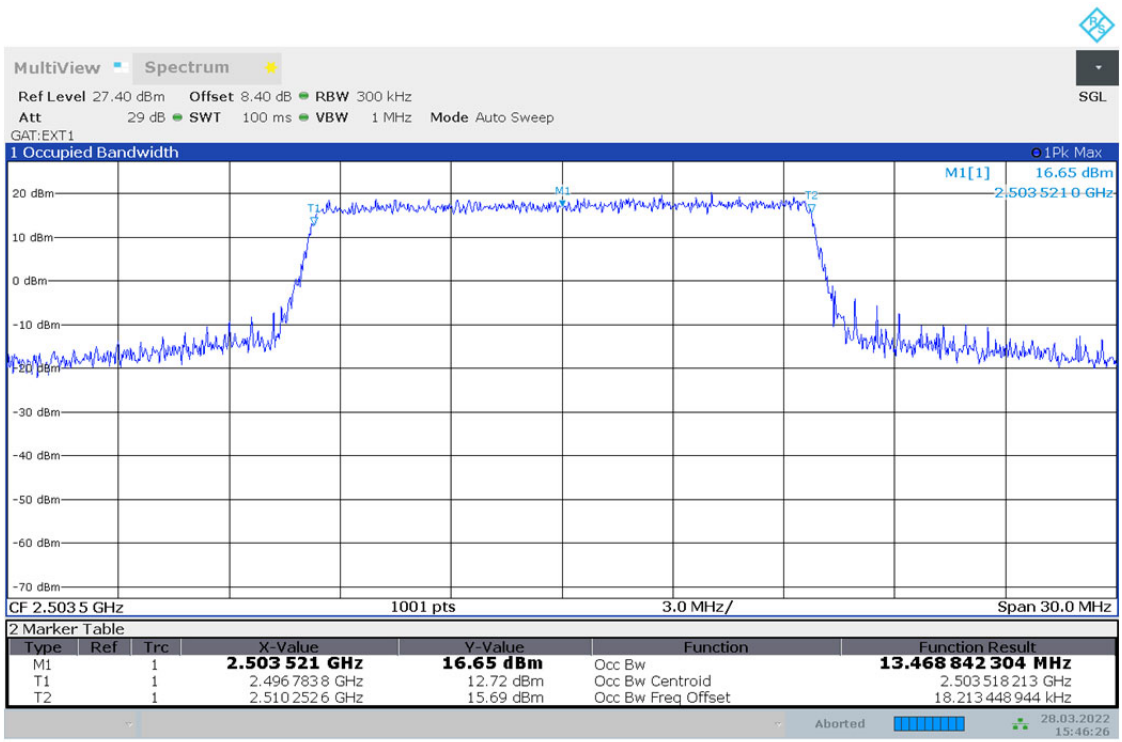

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