

# Appendix for LTE Band 38

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	RB1#0	QPSK	24.50	-1.1	23.40	33	PASS
			RB1#24	QPSK	24.44	-1.1	23.34	33	PASS
			RB25#0	QPSK	23.71	-1.1	22.61	33	PASS
		MCH	RB1#0	QPSK	24.31	-1.1	23.21	33	PASS
			RB1#24	QPSK	24.32	-1.1	23.22	33	PASS
			RB25#0	QPSK	23.54	-1.1	22.44	33	PASS
		HCH	RB1#0	QPSK	24.36	-1.1	23.26	33	PASS
			RB1#24	QPSK	24.31	-1.1	23.21	33	PASS
			RB25#0	QPSK	23.56	-1.1	22.46	33	PASS
	20	LCH	RB1#0	QPSK	24.49	-1.1	23.39	33	PASS
			RB1#99	QPSK	24.29	-1.1	23.19	33	PASS
			RB100#0	QPSK	23.63	-1.1	22.53	33	PASS
		MCH	RB1#0	QPSK	24.40	-1.1	23.30	33	PASS
			RB1#99	QPSK	24.37	-1.1	23.27	33	PASS
			RB100#0	QPSK	23.47	-1.1	22.37	33	PASS
		HCH	RB1#0	QPSK	24.24	-1.1	23.14	33	PASS
			RB1#99	QPSK	24.26	-1.1	23.16	33	PASS
			RB100#0	QPSK	23.40	-1.1	22.30	33	PASS
TM2	5	LCH	RB1#0	16QAM	24.18	-1.1	23.08	33	PASS
			RB1#24	16QAM	24.08	-1.1	22.98	33	PASS
			RB25#0	16QAM	22.71	-1.1	21.61	33	PASS
		MCH	RB1#0	16QAM	23.95	-1.1	22.85	33	PASS
			RB1#24	16QAM	24.02	-1.1	22.92	33	PASS
			RB25#0	16QAM	22.56	-1.1	21.46	33	PASS
		HCH	RB1#0	16QAM	23.86	-1.1	22.76	33	PASS
			RB1#24	16QAM	23.80	-1.1	22.70	33	PASS
			RB25#0	16QAM	22.64	-1.1	21.54	33	PASS
	20	LCH	RB1#0	16QAM	23.99	-1.1	22.89	33	PASS
			RB1#99	16QAM	23.87	-1.1	22.77	33	PASS
			RB100#0	16QAM	22.64	-1.1	21.54	33	PASS
		MCH	RB1#0	16QAM	24.05	-1.1	22.95	33	PASS
			RB1#99	16QAM	23.88	-1.1	22.78	33	PASS
			RB100#0	16QAM	22.52	-1.1	21.42	33	PASS
		HCH	RB1#0	16QAM	23.88	-1.1	22.78	33	PASS
			RB1#99	16QAM	23.85	-1.1	22.75	33	PASS
			RB100#0	16QAM	22.45	-1.1	21.35	33	PASS

## 2. APPENDIX B - PEAK-TO-AVERAGE RATIO

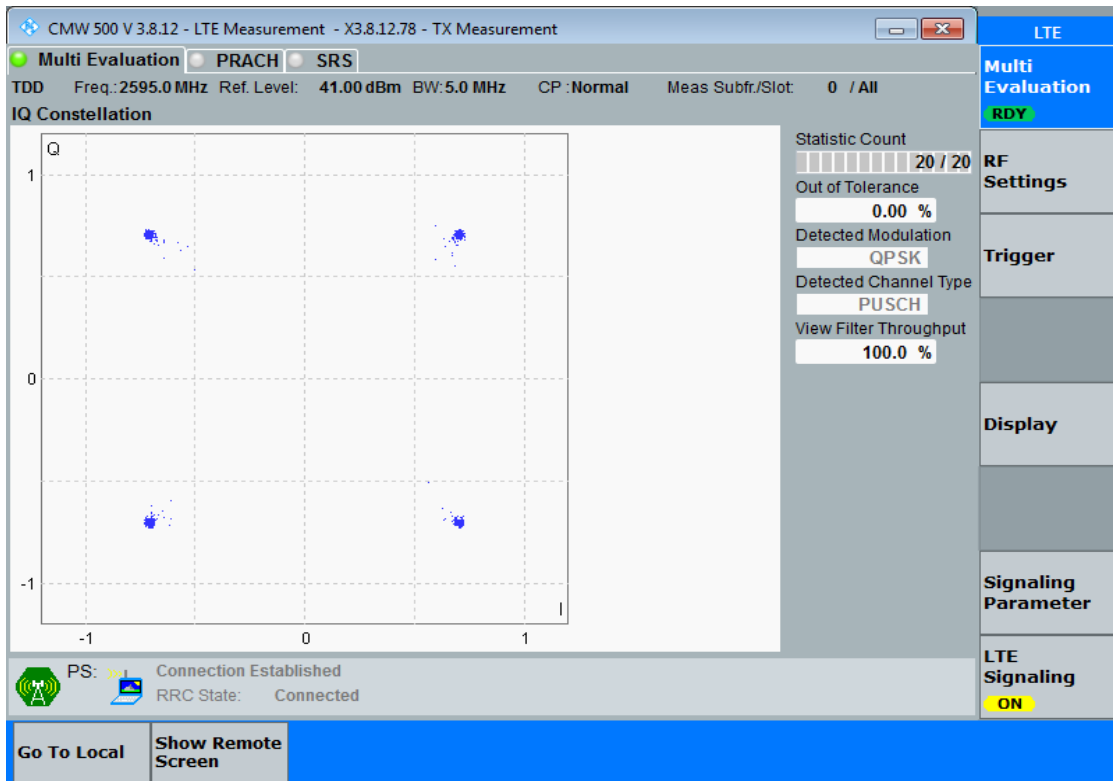
### 2.1 TEST RESULTS

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	5.48	13	PASS
			RB1#0	QPSK	3.75	13	PASS
			RB1#24	QPSK	3.73	13	PASS
	20		RB100#0	QPSK	5.67	13	PASS
			RB1#0	QPSK	3.86	13	PASS
			RB1#99	QPSK	3.72	13	PASS
TM2	5		RB25#0	16QAM	6.30	13	PASS
			RB1#0	16QAM	4.38	13	PASS
			RB1#24	16QAM	4.46	13	PASS
	20		RB100#0	16QAM	6.64	13	PASS
			RB1#0	16QAM	4.47	13	PASS
			RB1#99	16QAM	4.34	13	PASS
TM3	5	RB25#0	64QAM	7.02	13	PASS	
		RB1#0	64QAM	5.29	13	PASS	
		RB1#24	64QAM	5.22	13	PASS	
	20	RB100#0	64QAM	7.52	13	PASS	
		RB1#0	64QAM	5.57	13	PASS	
		RB1#99	64QAM	5.42	13	PASS	

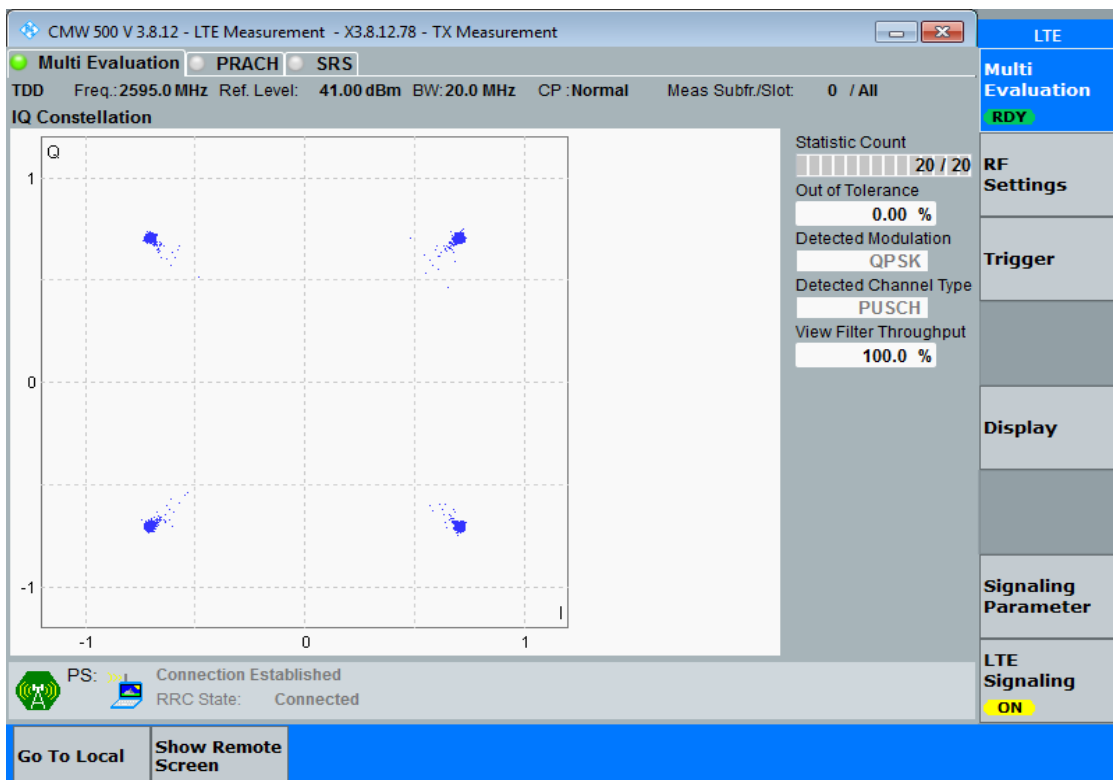
### 3. APPENDIX C - MODULATION CHARACTERISTICS

#### 3.1 TEST PLOTS

##### 3.1.1 TM1\_5MHZ\_MCH\_RB25#0

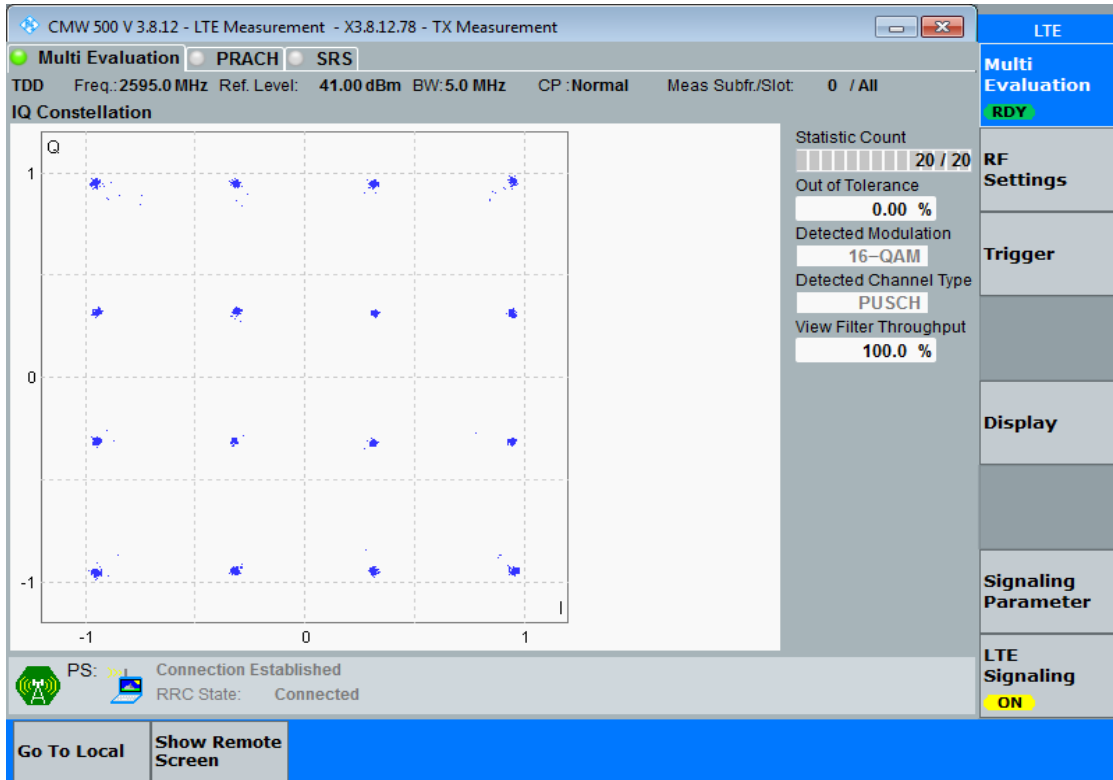


##### 3.1.2 TM1\_20MHZ\_MCH\_RB100#0

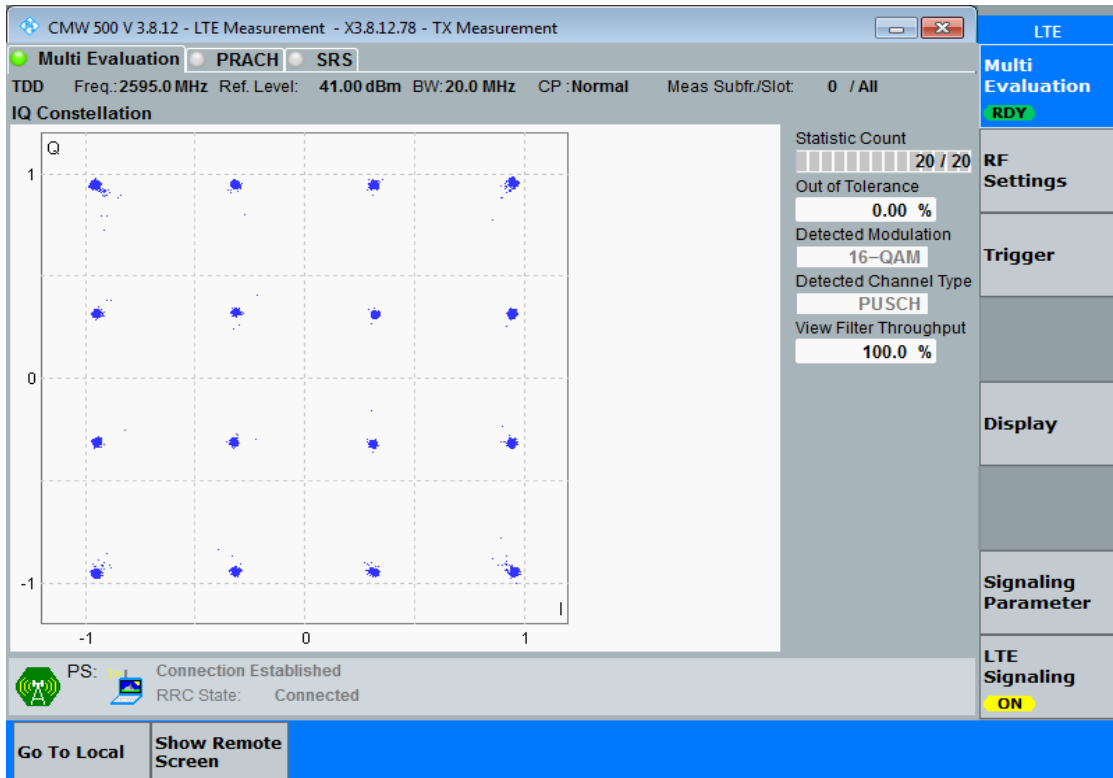




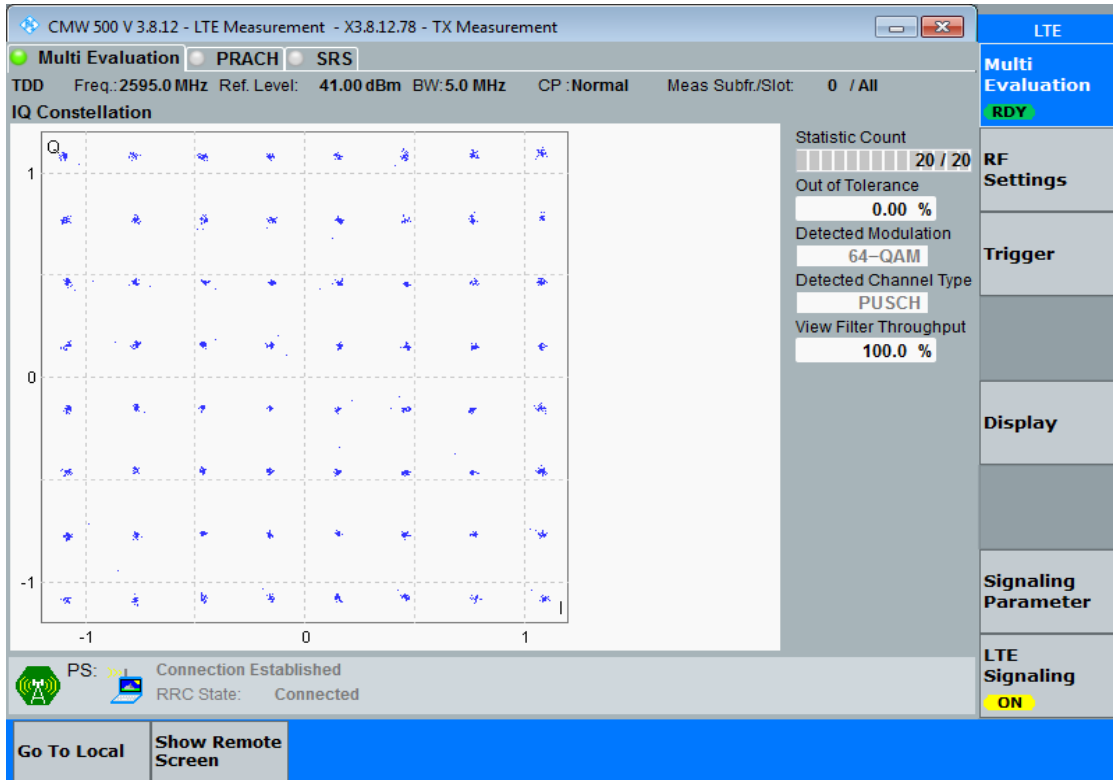
### 3.1.3 TM2\_5MHZ\_MCH\_RB25#0



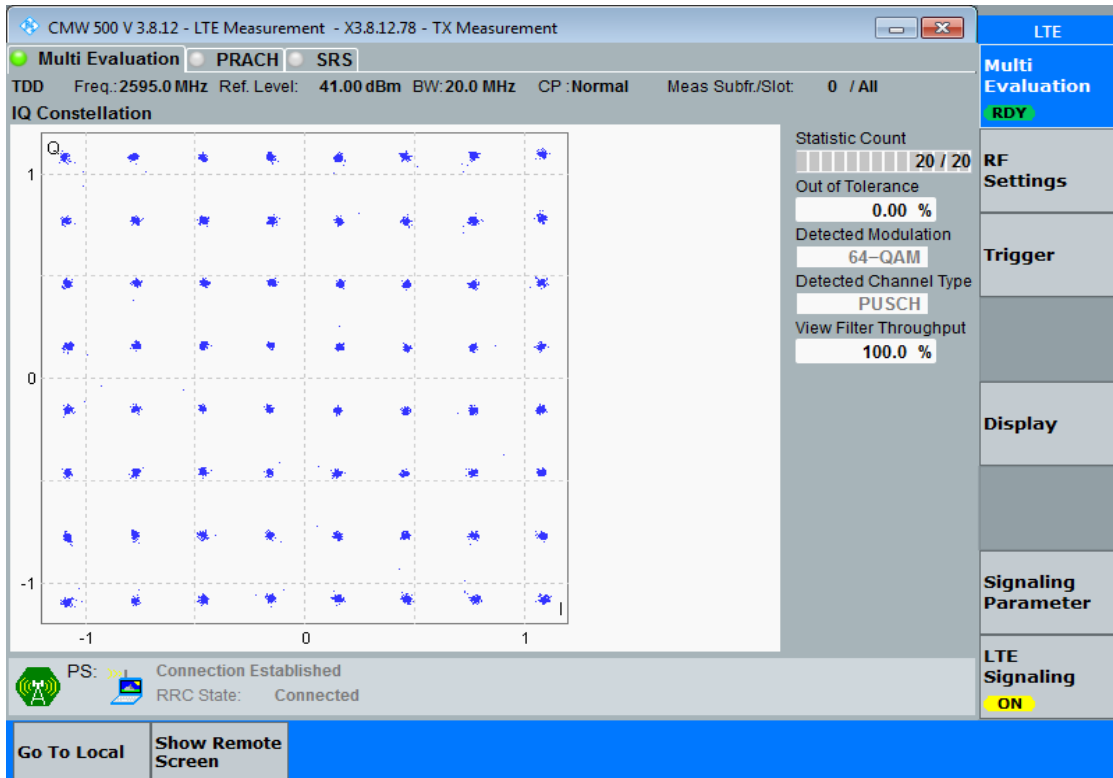
### 3.1.4 TM2\_20MHZ\_MCH\_RB100#0



### 3.1.5 TM3\_5MHZ\_MCH\_RB25#0



### 3.1.6 TM3\_20MHZ\_MCH\_RB100#0



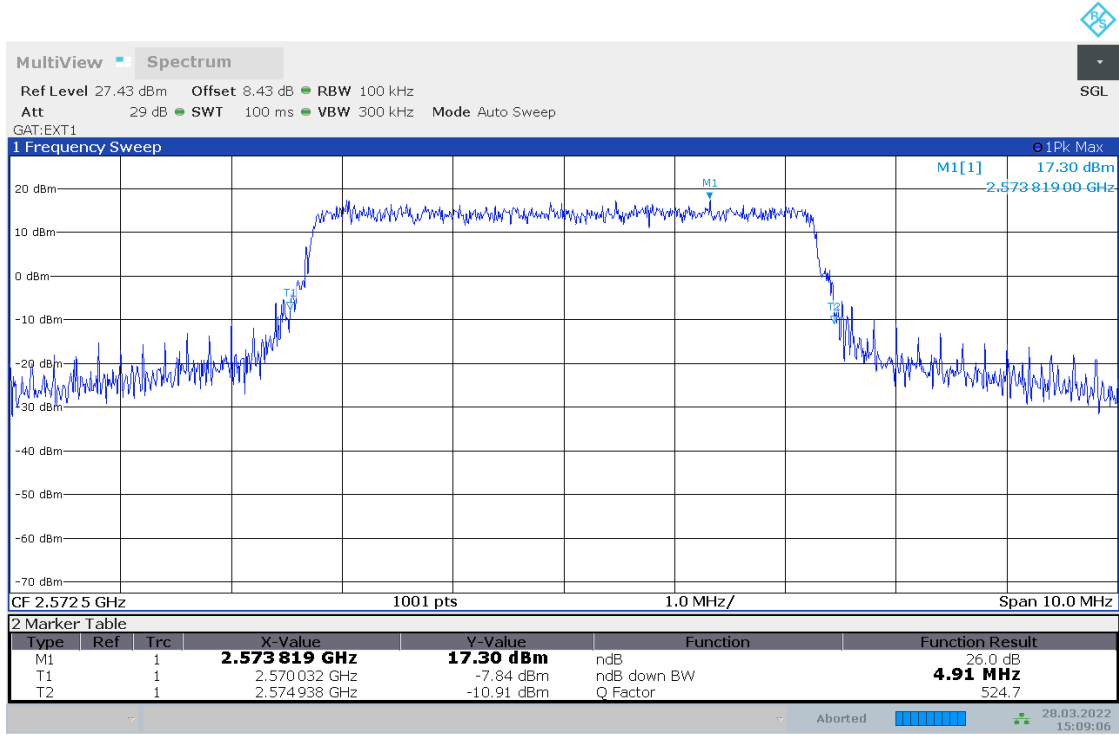
## 4. APPENDIX D - OCCUPIED BANDWIDTH

### 4.1 TEST RESULTS

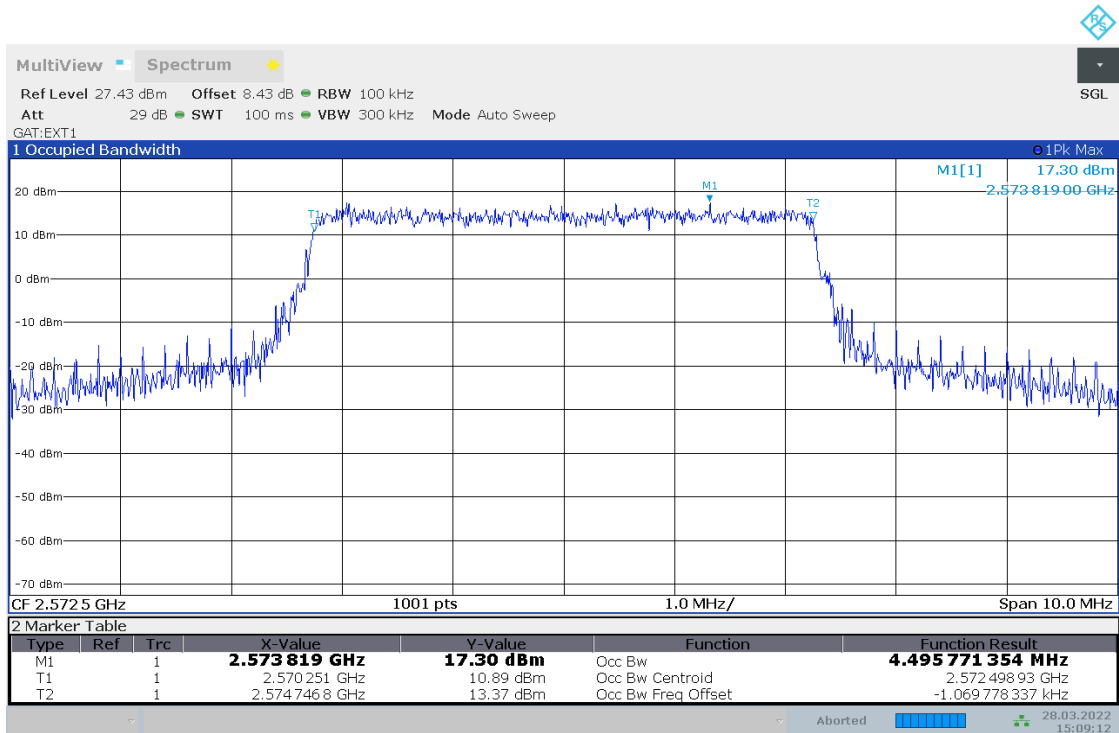
Occupied Bandwidth							
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
TM1	5	LCH	RB25#0	QPSK	4.50	4.91	PASS
		MCH	RB25#0	QPSK	4.50	4.87	PASS
		HCH	RB25#0	QPSK	4.50	4.95	PASS
	10	LCH	RB50#0	QPSK	8.97	9.53	PASS
		MCH	RB50#0	QPSK	8.96	9.55	PASS
		HCH	RB50#0	QPSK	8.98	9.55	PASS
	15	LCH	RB75#0	QPSK	13.46	14.18	PASS
		MCH	RB75#0	QPSK	13.46	14.18	PASS
		HCH	RB75#0	QPSK	13.44	14.33	PASS
	20	LCH	RB100#0	QPSK	18.00	19.74	PASS
		MCH	RB100#0	QPSK	18.01	19.58	PASS
		HCH	RB100#0	QPSK	18.02	19.58	PASS
TM2	5	LCH	RB25#0	16QAM	4.48	4.79	PASS
		MCH	RB25#0	16QAM	4.50	4.74	PASS
		HCH	RB25#0	16QAM	4.50	4.82	PASS
	10	LCH	RB50#0	16QAM	9.00	9.91	PASS
		MCH	RB50#0	16QAM	9.00	9.91	PASS
		HCH	RB50#0	16QAM	9.01	9.77	PASS
	15	LCH	RB75#0	16QAM	13.47	14.78	PASS
		MCH	RB75#0	16QAM	13.46	14.84	PASS
		HCH	RB75#0	16QAM	13.49	14.84	PASS
	20	LCH	RB100#0	16QAM	18.04	19.86	PASS
		MCH	RB100#0	16QAM	18.06	19.90	PASS
		HCH	RB100#0	16QAM	18.06	19.78	PASS
TM3	5	LCH	RB25#0	64QAM	4.49	4.79	PASS
		MCH	RB25#0	64QAM	4.49	4.84	PASS
		HCH	RB25#0	64QAM	4.49	4.75	PASS
	10	LCH	RB50#0	64QAM	9.00	9.89	PASS
		MCH	RB50#0	64QAM	9.01	9.91	PASS
		HCH	RB50#0	64QAM	9.00	9.89	PASS
	15	LCH	RB75#0	64QAM	13.51	14.78	PASS
		MCH	RB75#0	64QAM	13.48	14.78	PASS
		HCH	RB75#0	64QAM	13.49	14.84	PASS
	20	LCH	RB100#0	64QAM	18.04	19.82	PASS
		MCH	RB100#0	64QAM	18.05	19.74	PASS
		HCH	RB100#0	64QAM	18.07	19.82	PASS

## 4.2 TEST PLOTS

### 4.2.1 TM1\_5MHZ\_LCH\_RB25#0

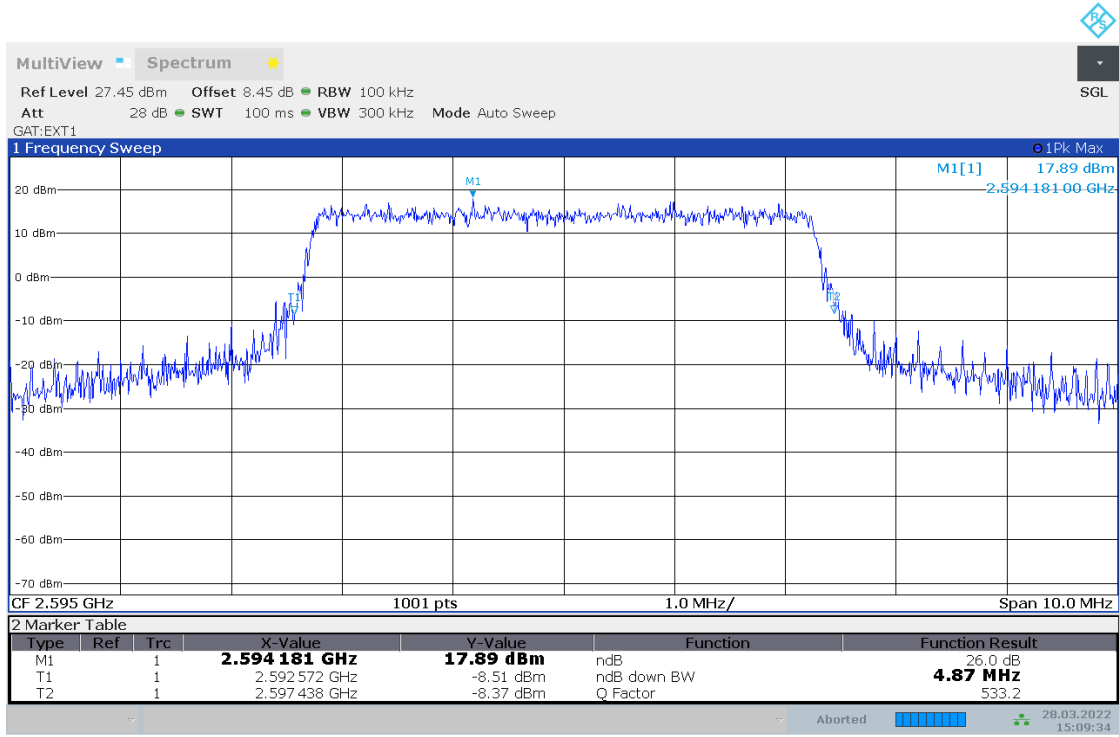


15:09:07 28.03.2022

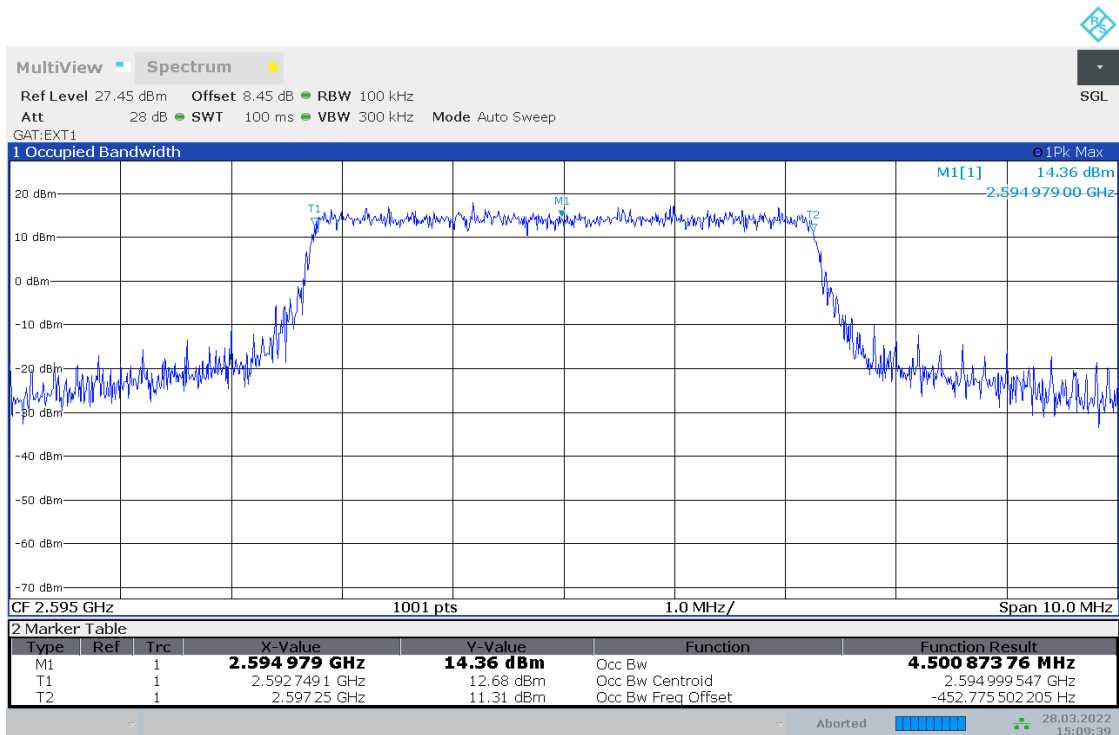


15:09:12 28.03.2022

## 4.2.2 TM1\_5MHZ\_MCH\_RB25#0

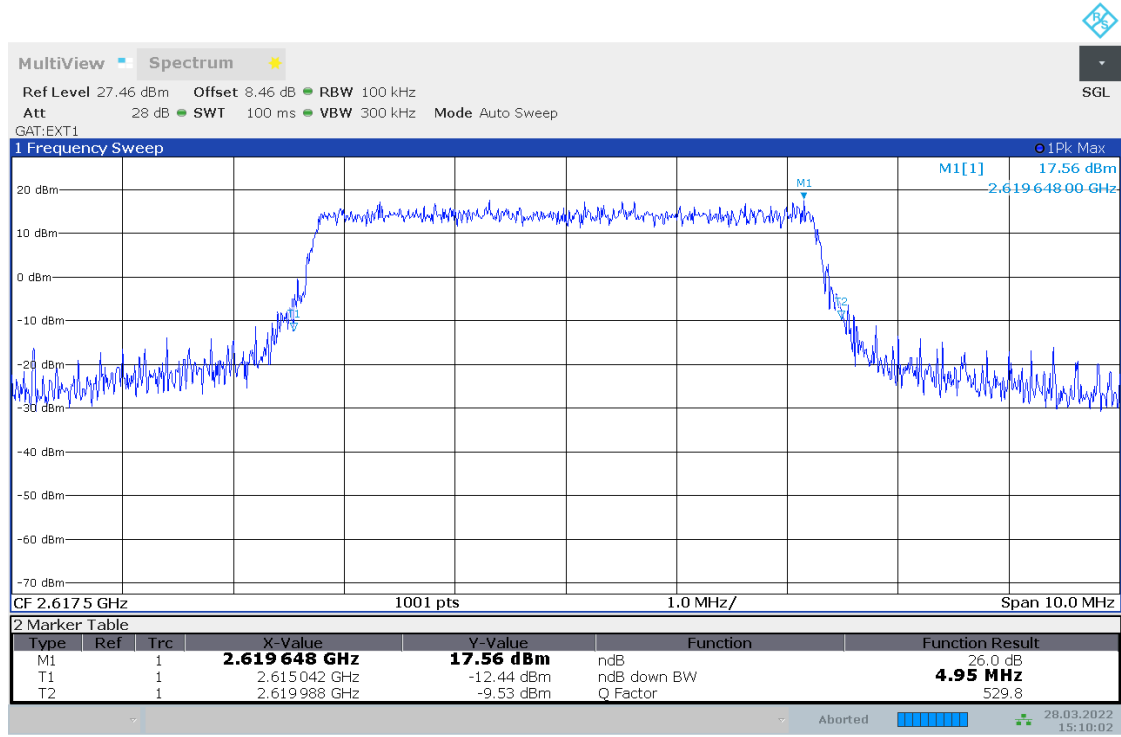


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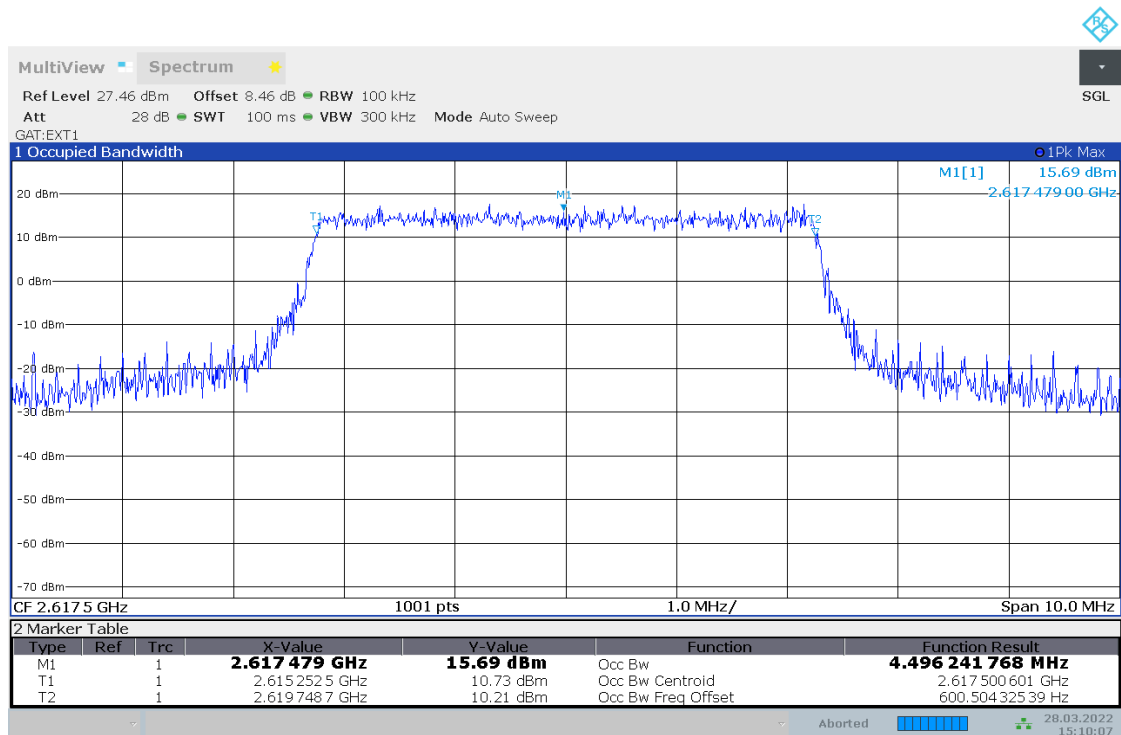


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## 4.2.3 TM1\_5MHZ\_HCH\_RB25#0

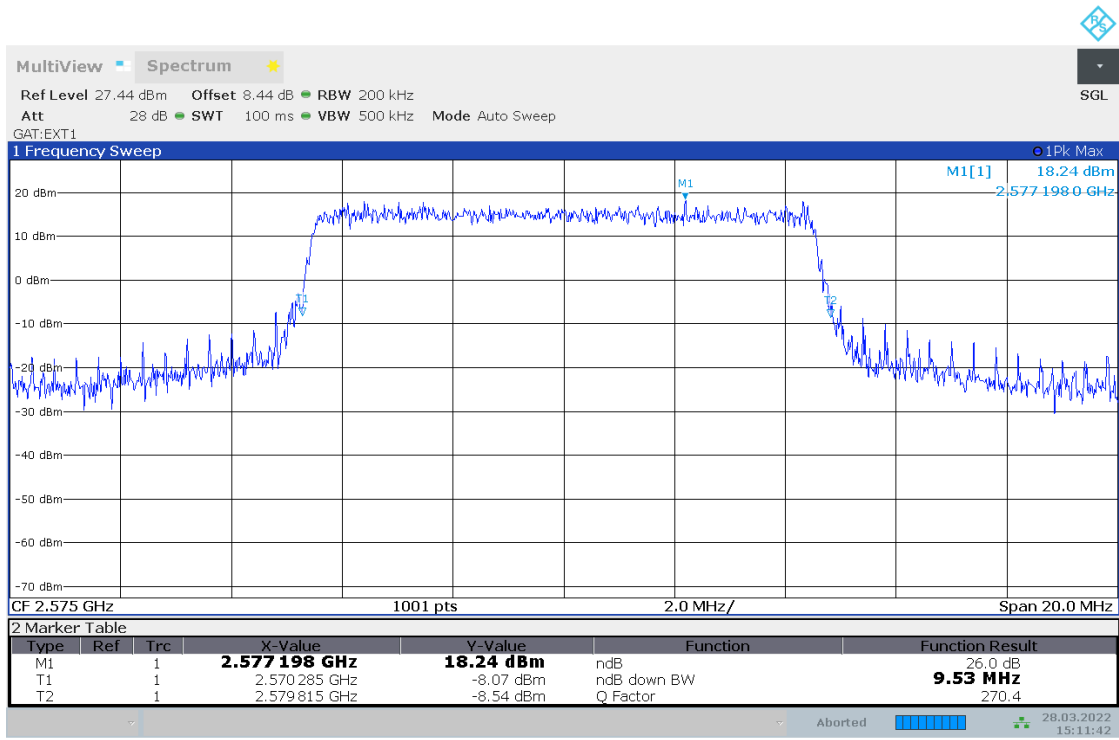


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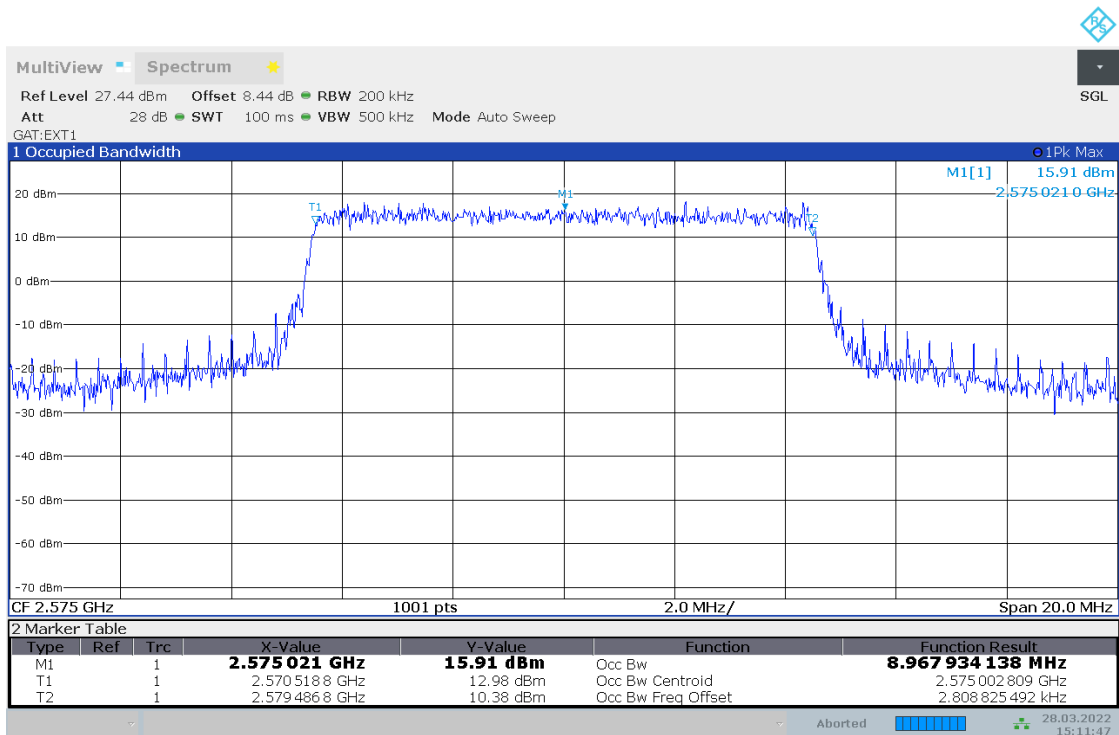


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## 4.2.4 TM1\_10MHZ\_LCH\_RB50#0

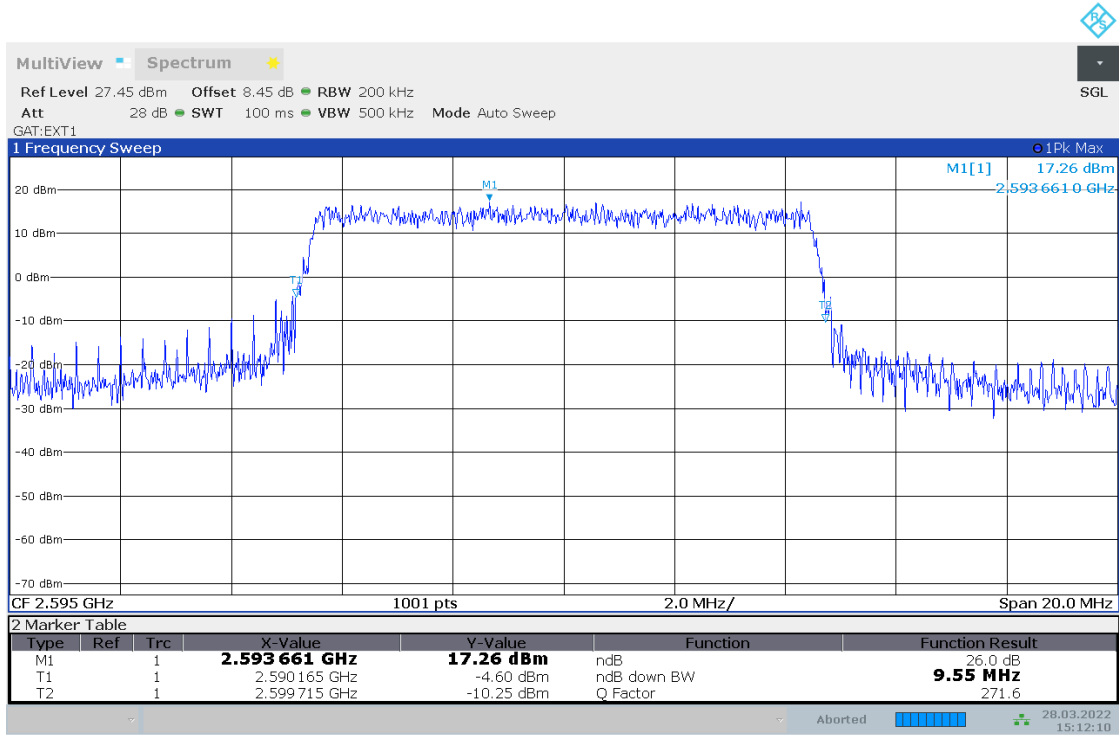


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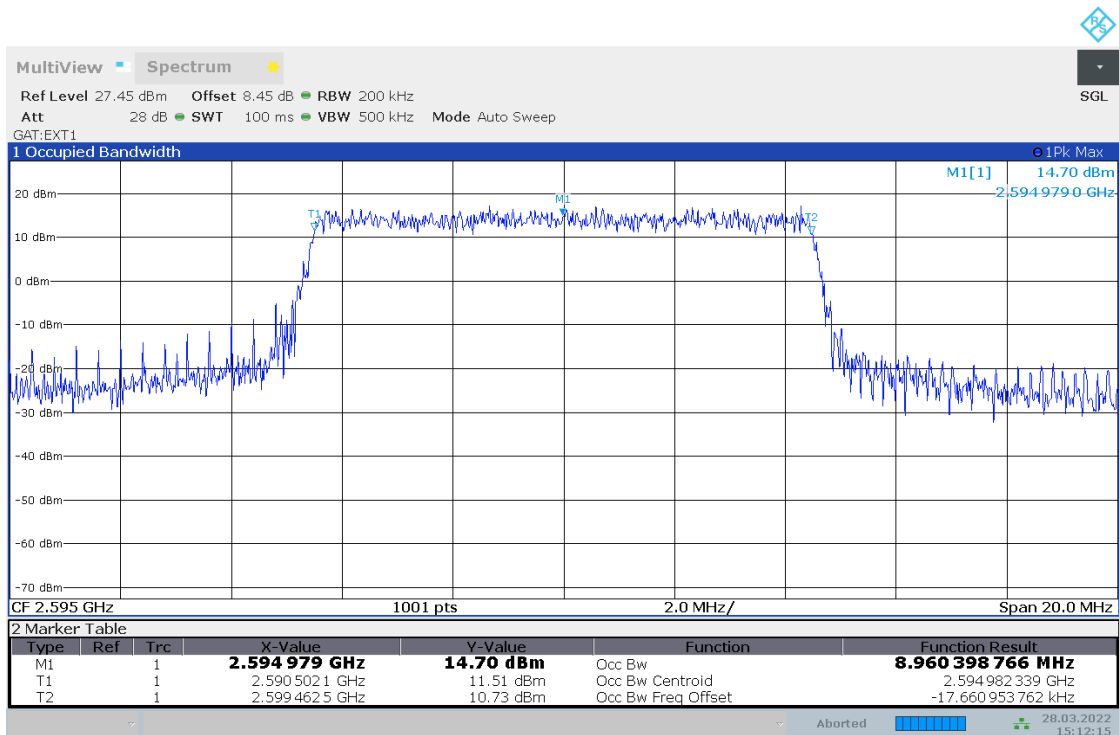


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## 4.2.5 TM1\_10MHZ\_MCH\_RB50#0



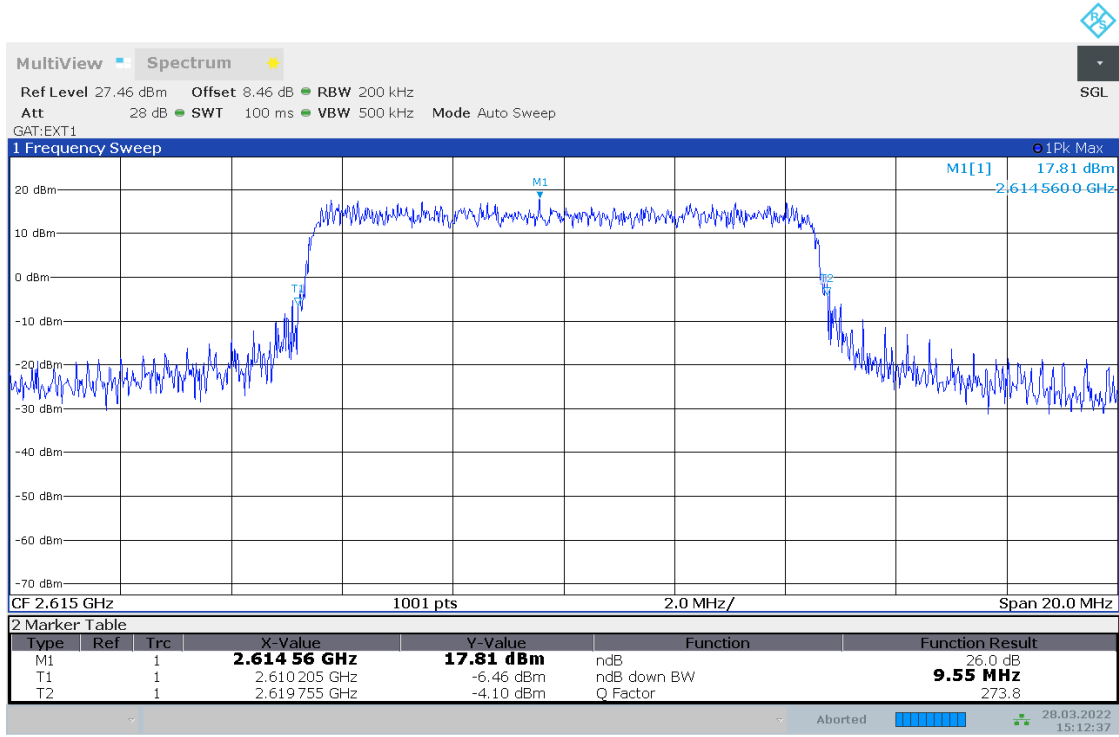
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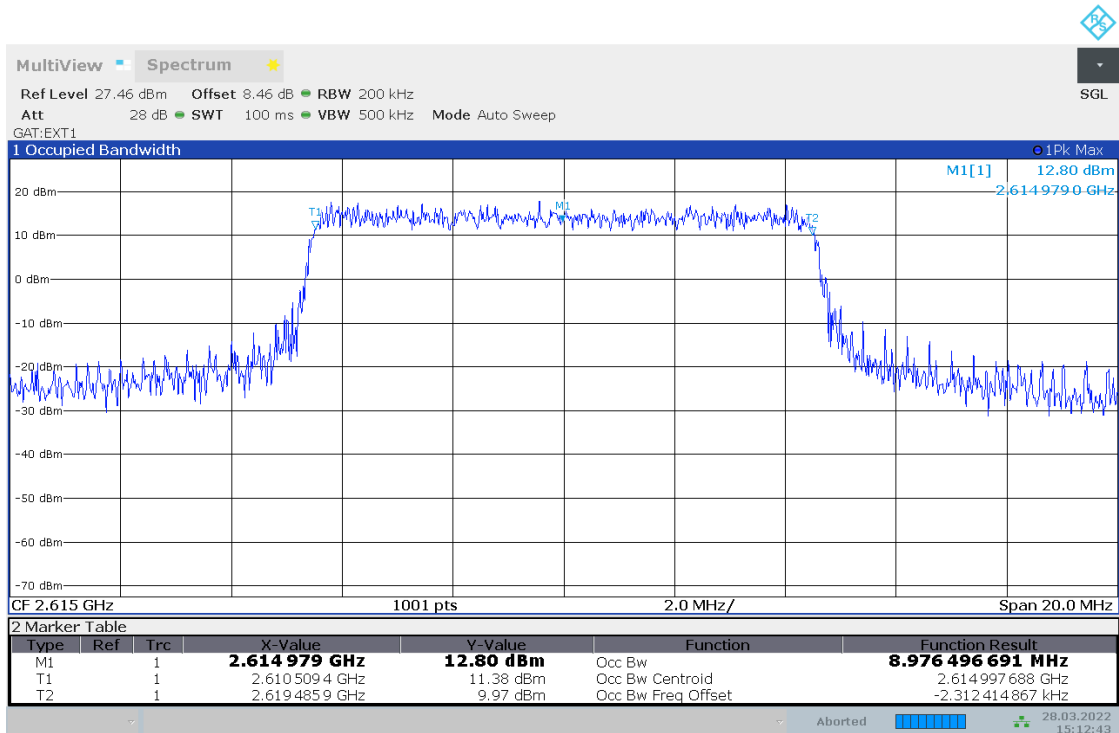
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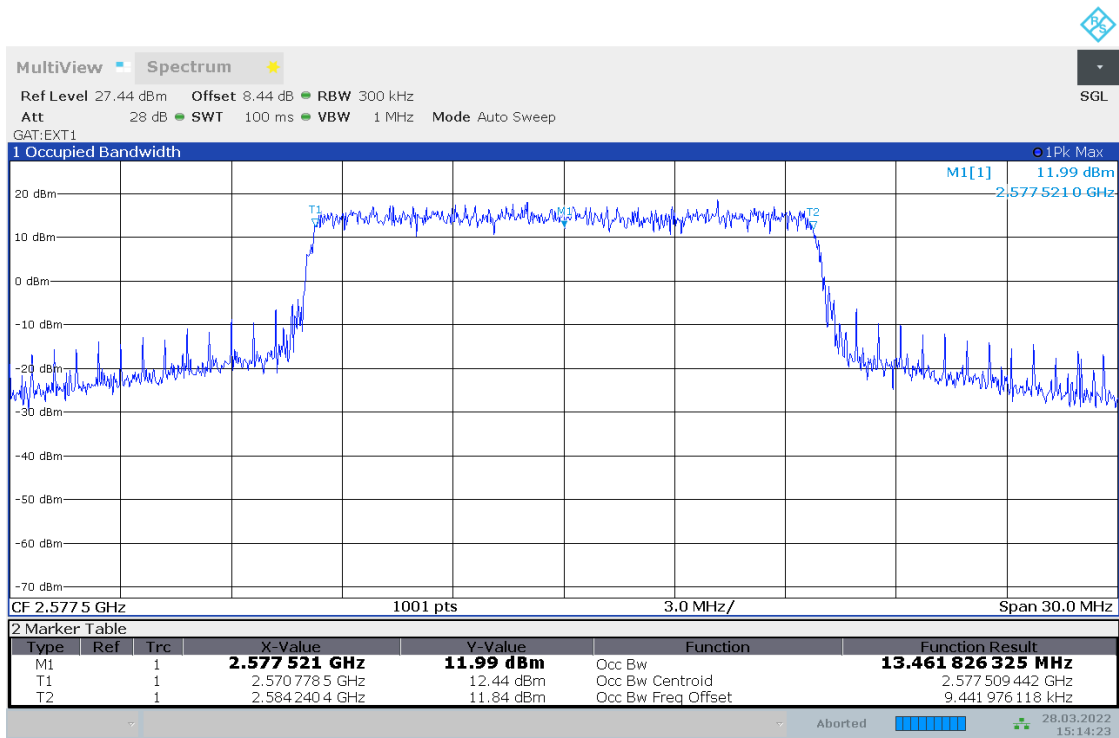
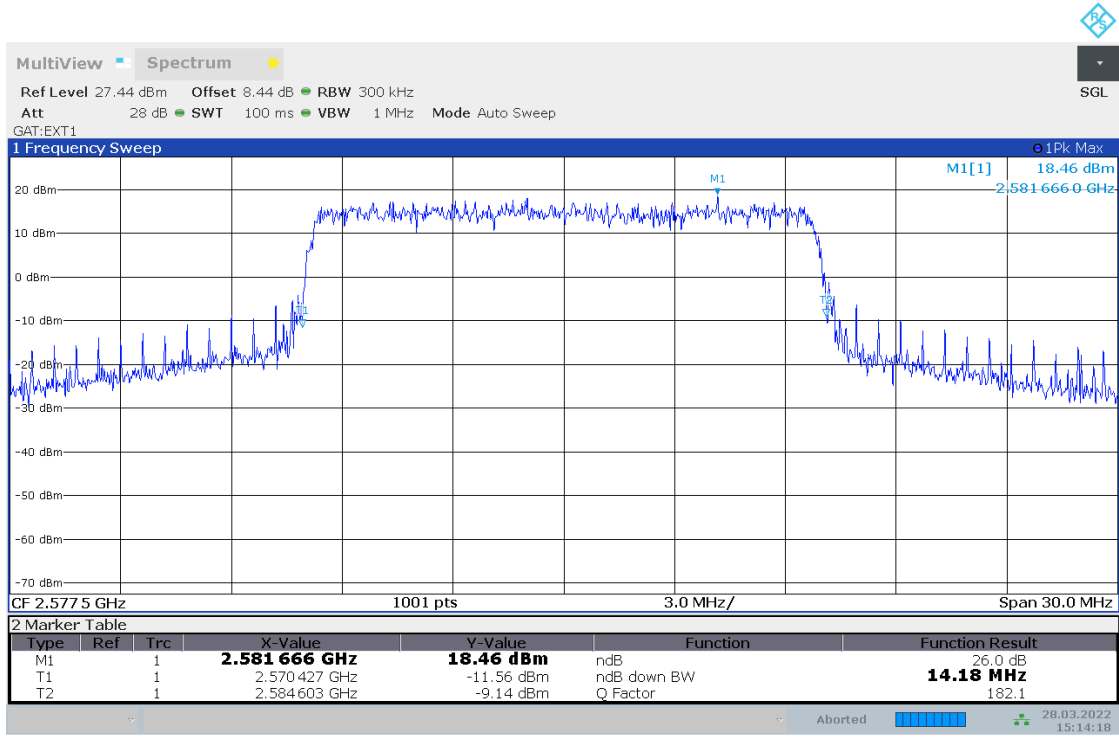


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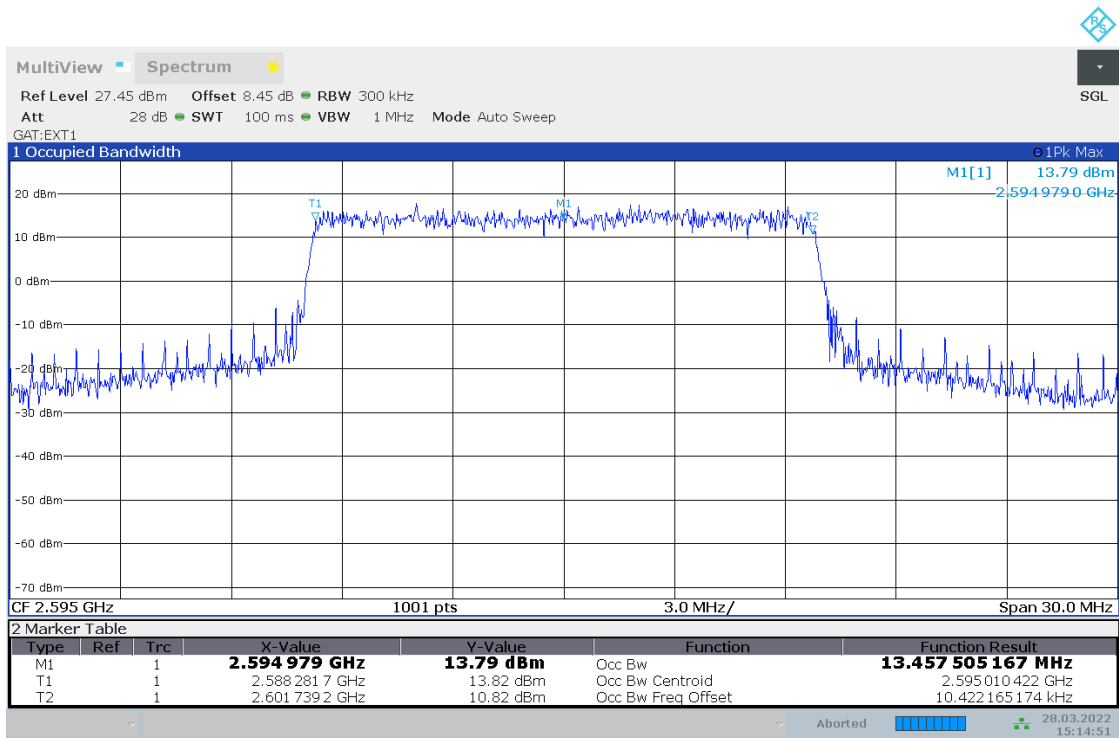
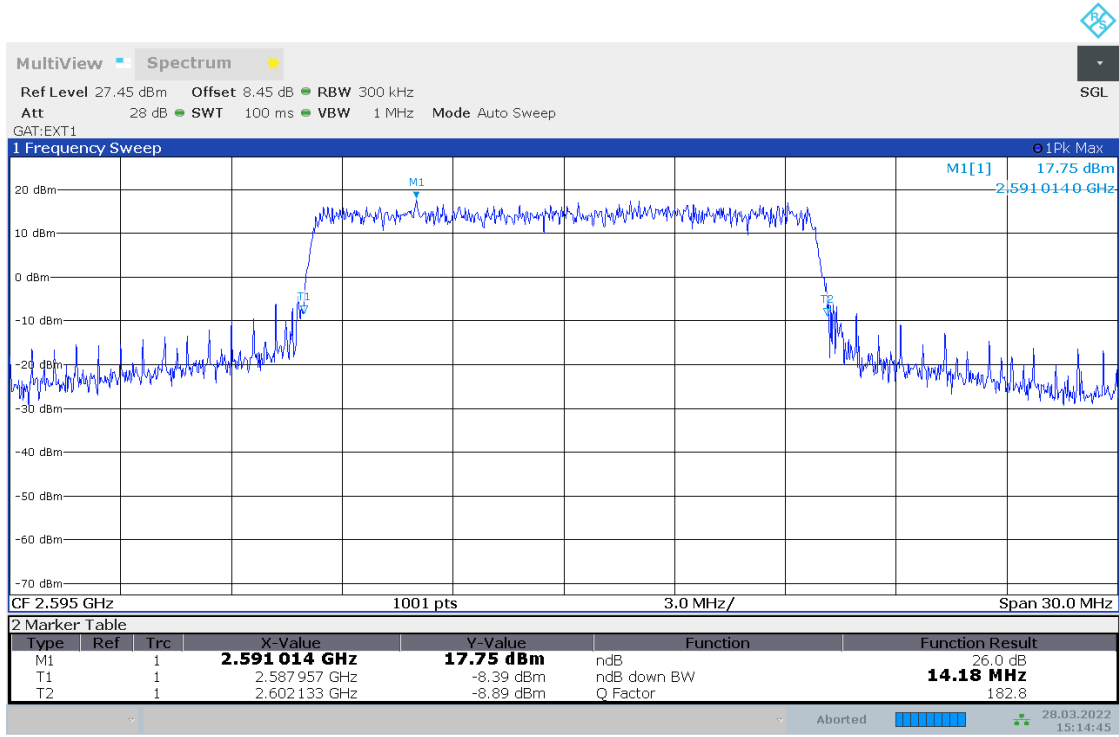


15:12:43 28.03.2022

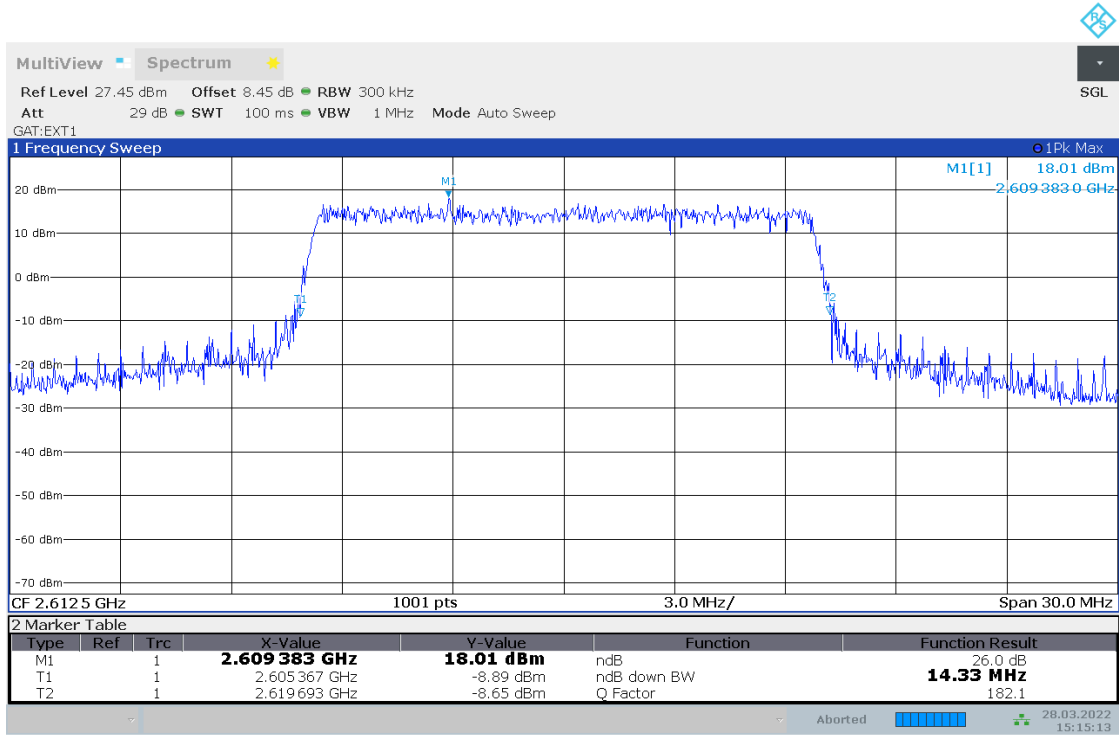
## 4.2.7 TM1\_15MHZ\_LCH\_RB75#0



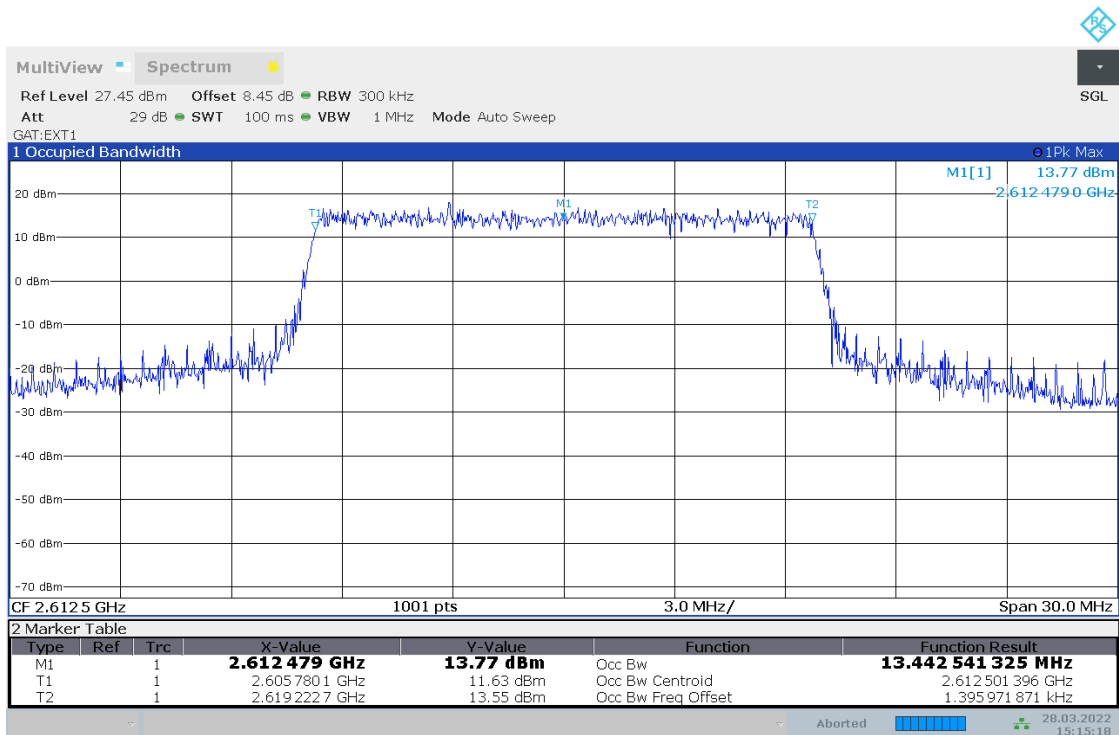
## 4.2.8 TM1\_15MHZ\_MCH\_RB75#0



## 4.2.9 TM1\_15MHZ\_HCH\_RB75#0

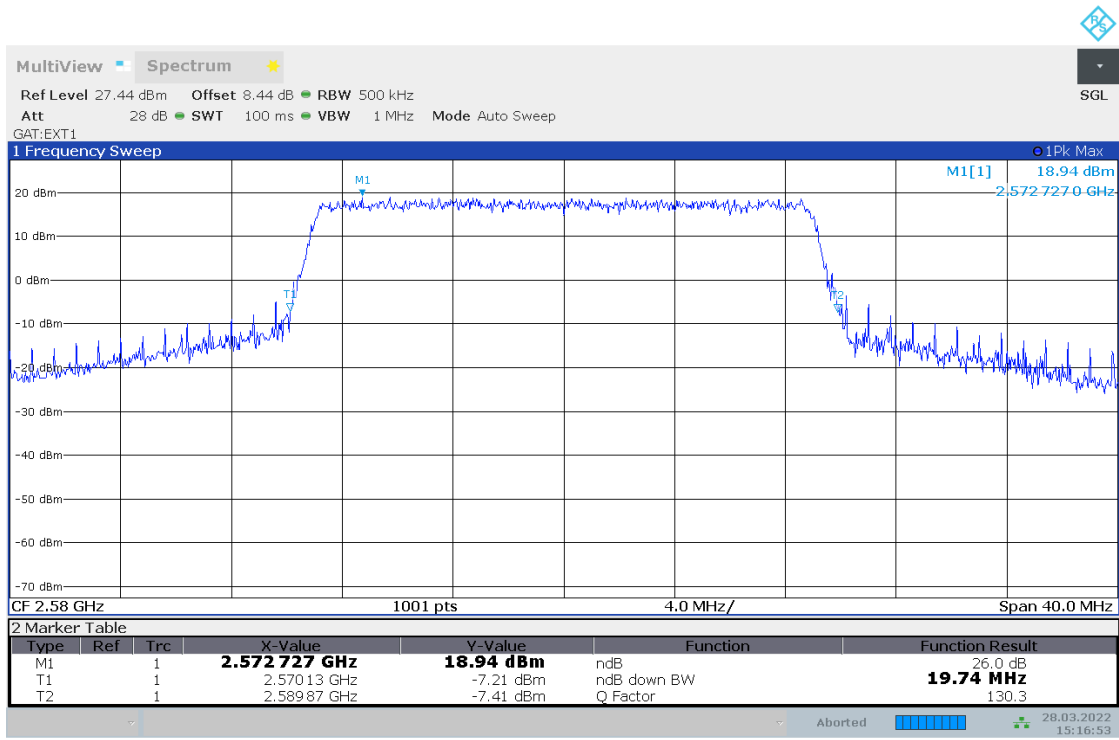


15:15:14 28.03.2022

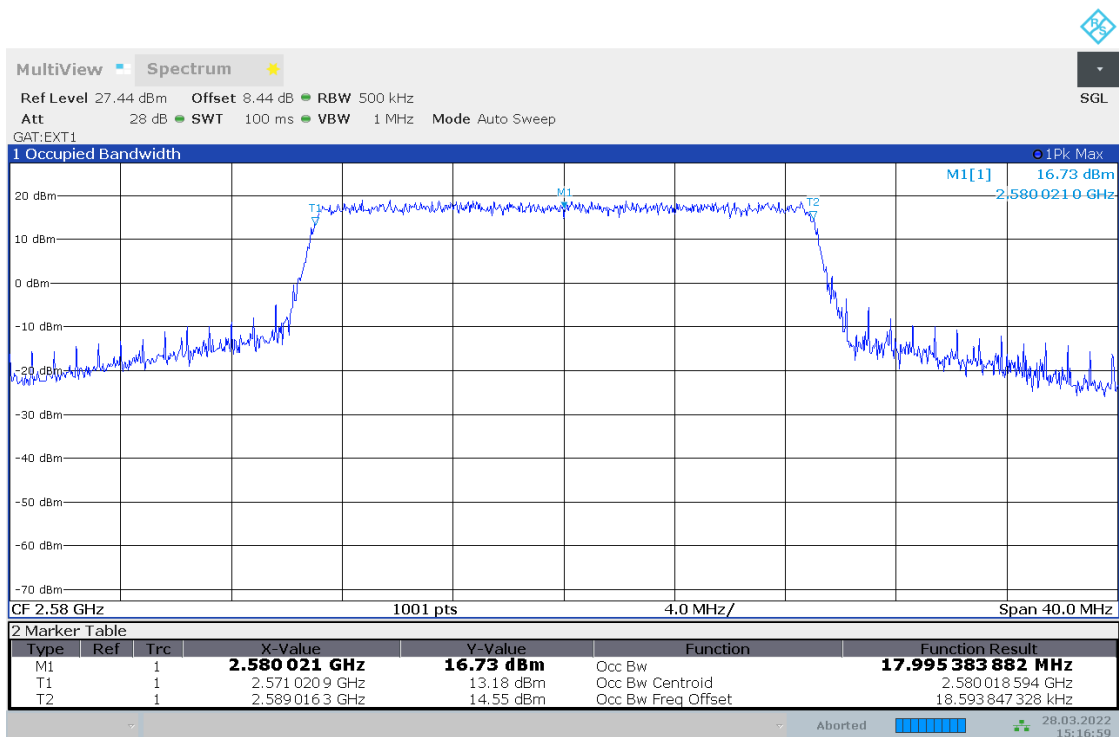


15:15:19 28.03.2022

## 4.2.10 TM1\_20MHZ\_LCH\_RB100#0

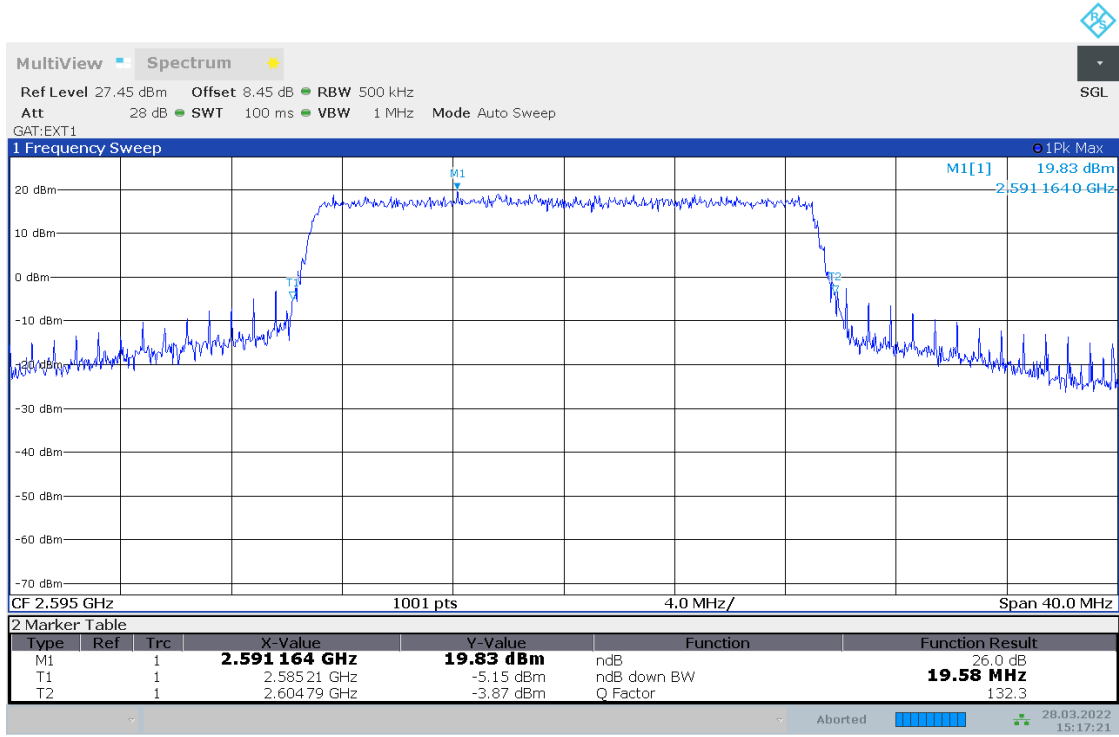


15:16:54 28.03.2022

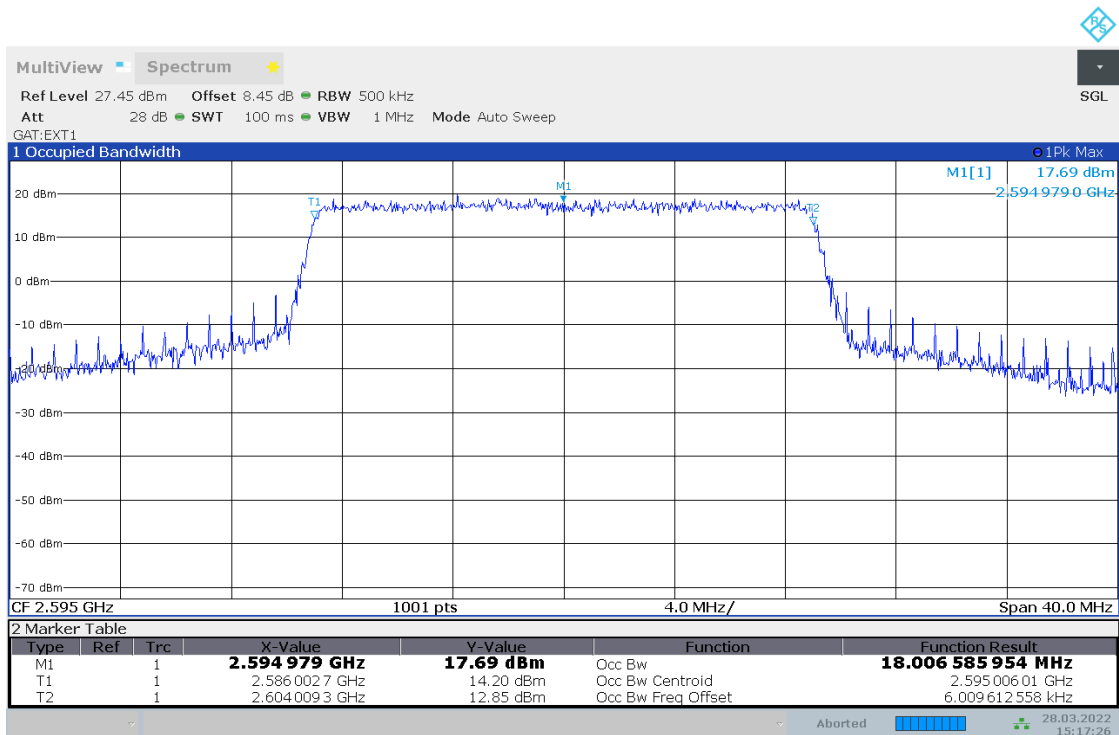


15:16:59 28.03.2022

## 4.2.11 TM1\_20MHZ\_MCH\_RB100#0

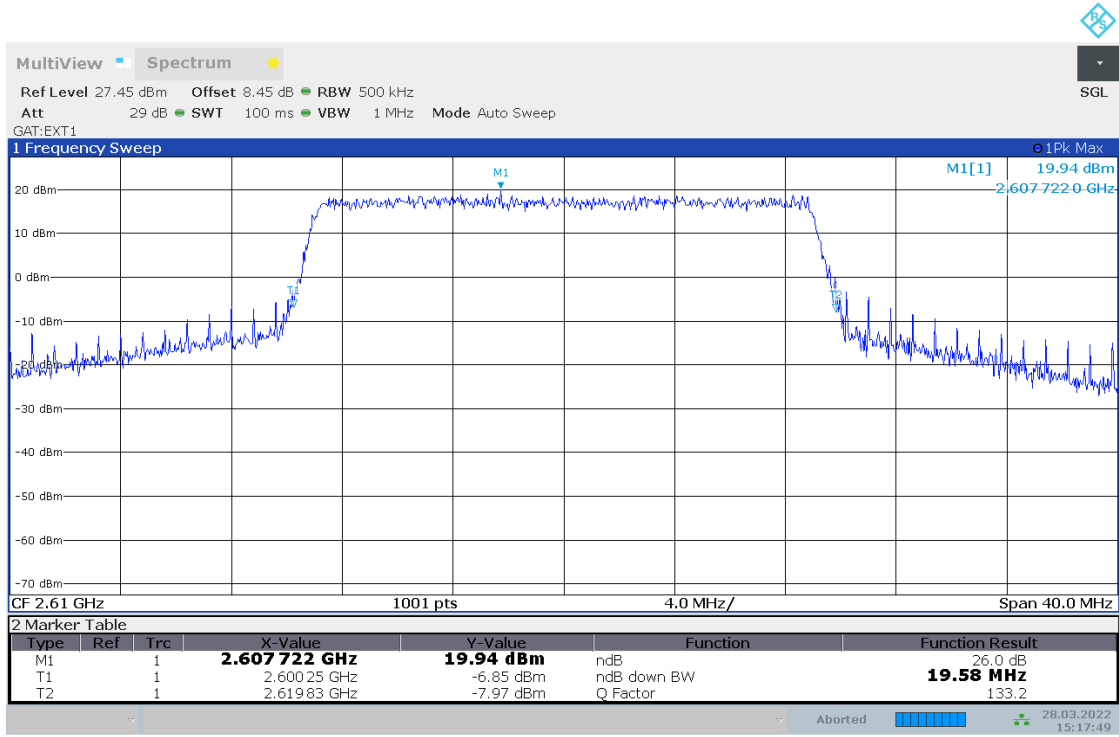


15:17:22 28.03.2022

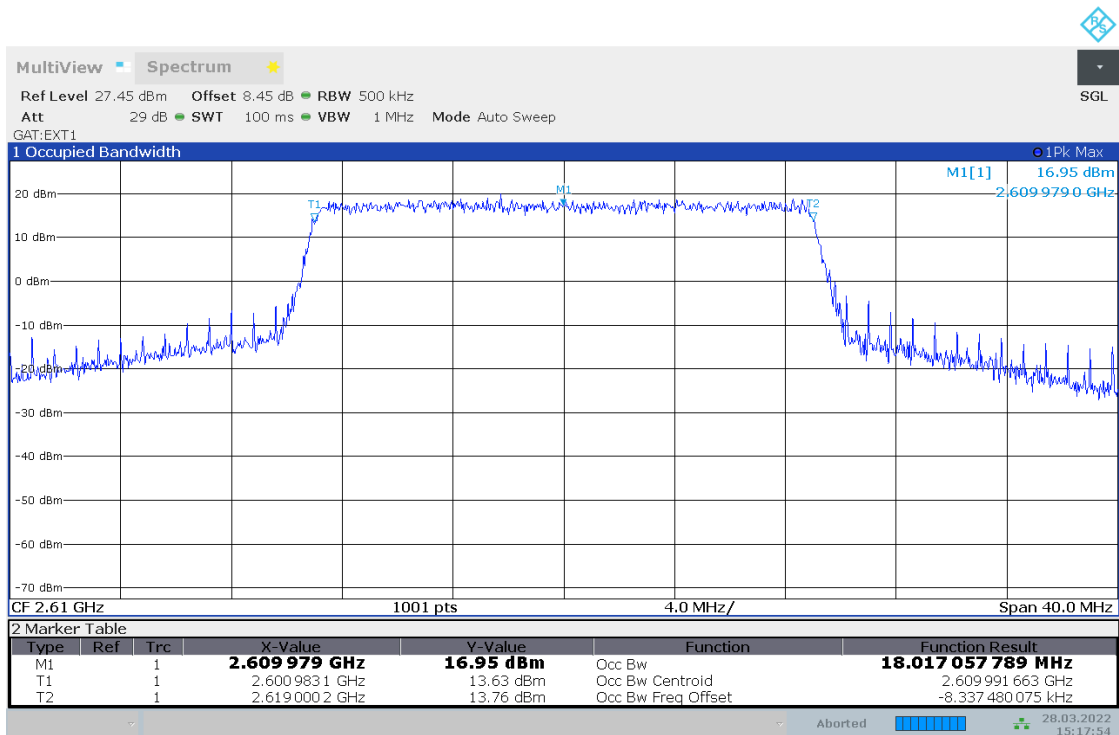


15:17:27 28.03.2022

## 4.2.12 TM1\_20MHZ\_HCH\_RB100#0

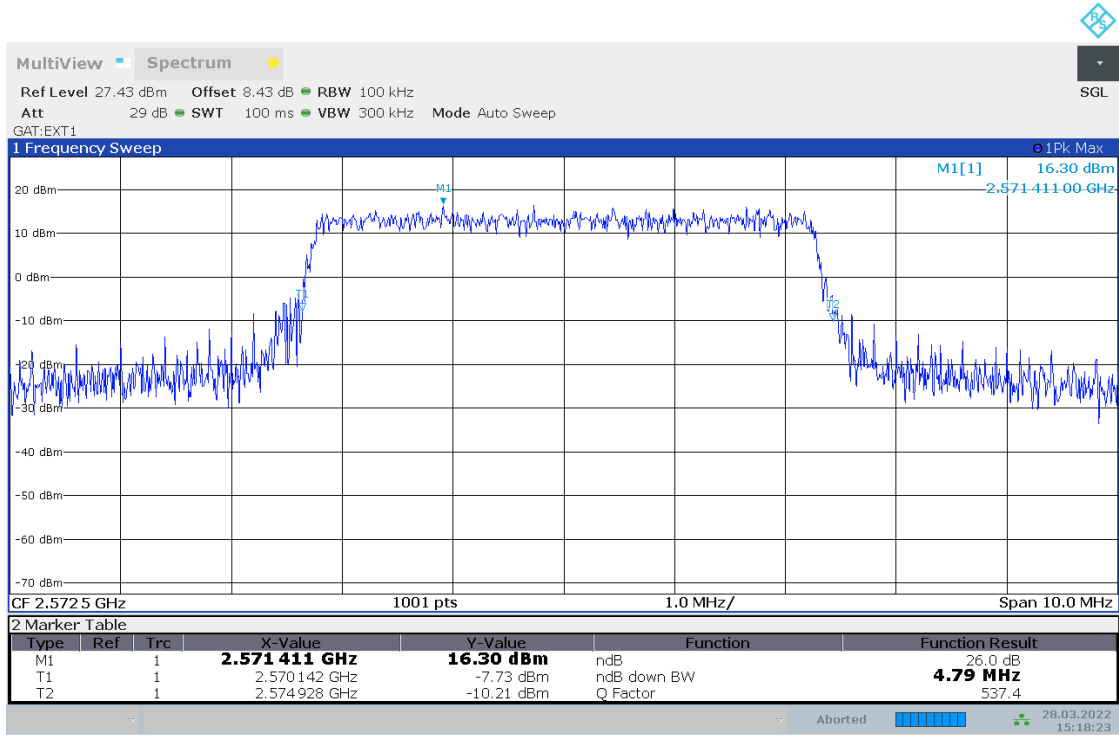


15:17:49 28.03.2022

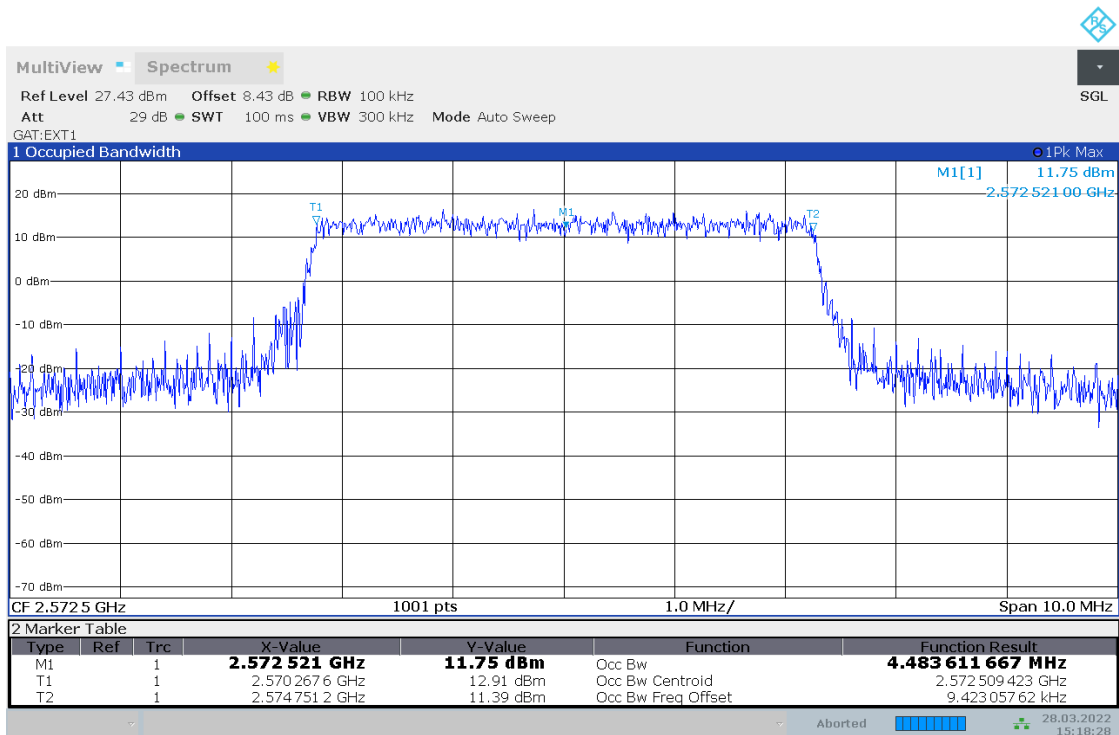


15:17:55 28.03.2022

## 4.2.13 TM2\_5MHZ\_LCH\_RB25#0



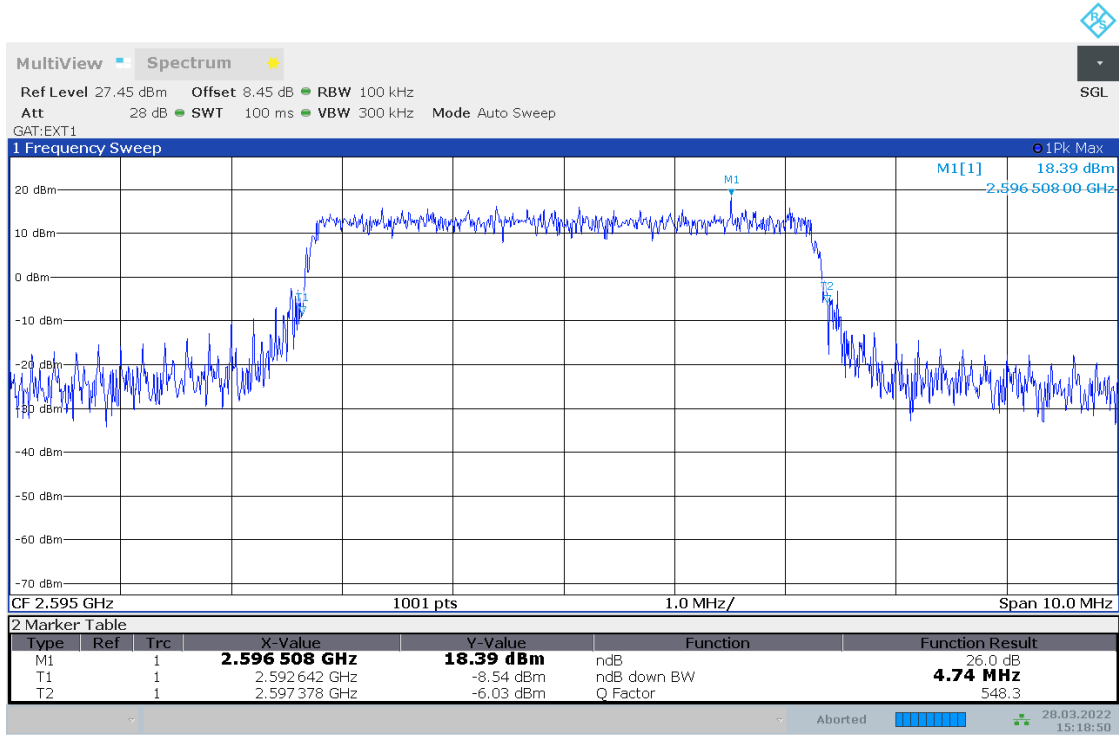
15:18:23 28.03.2022



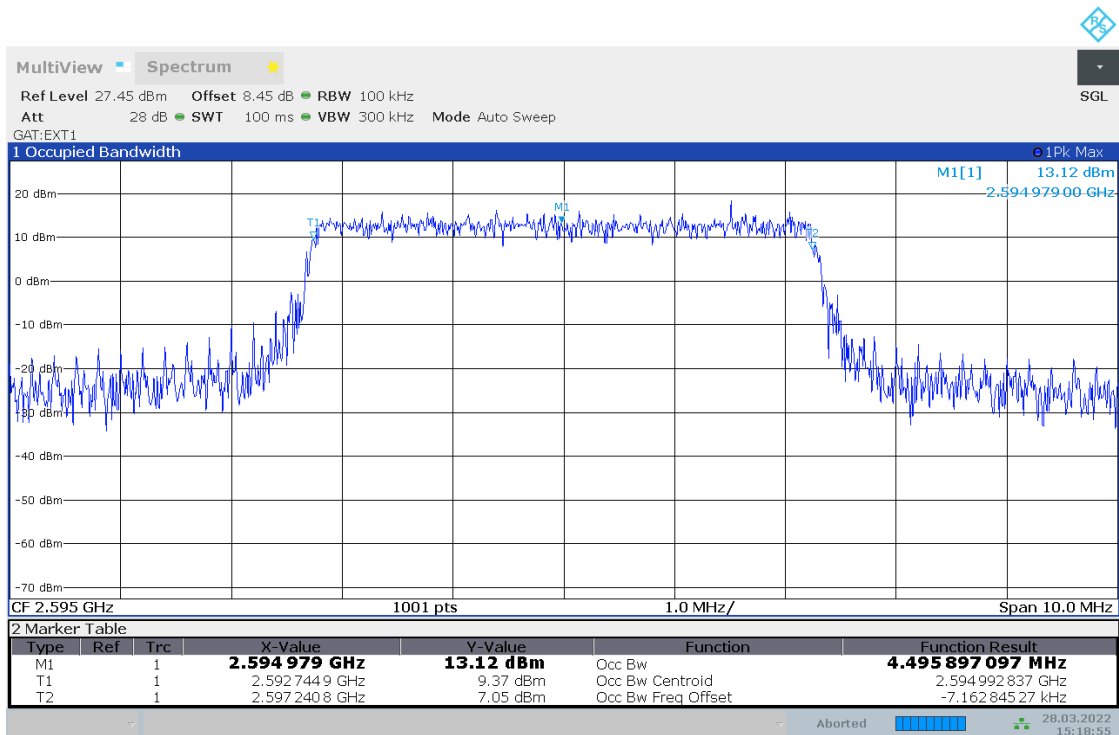
15:18:28 28.03.2022



## 4.2.14 TM2\_5MHZ\_MCH\_RB25#0

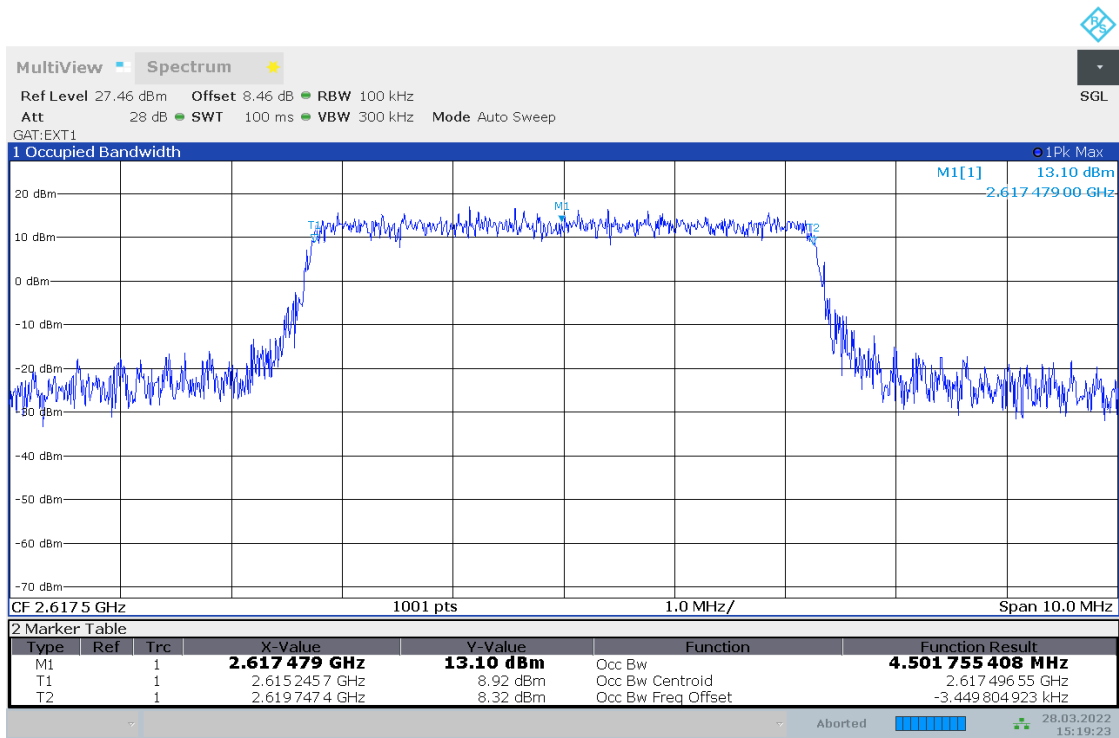
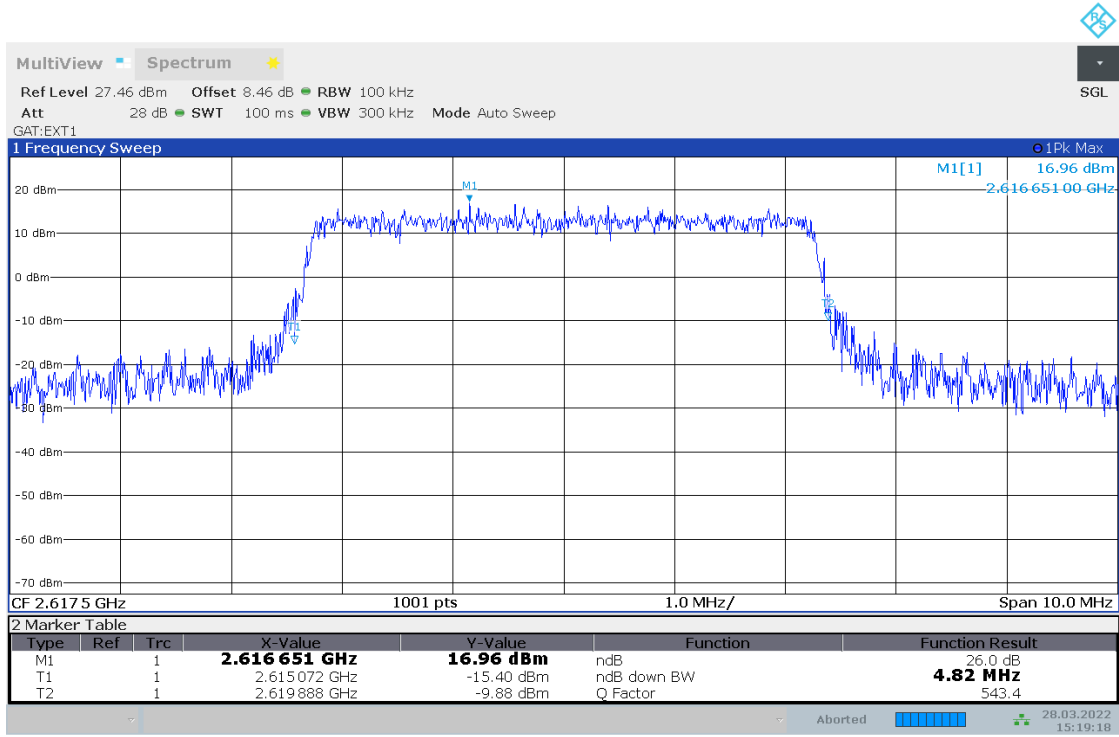


15:18:51 28.03.2022

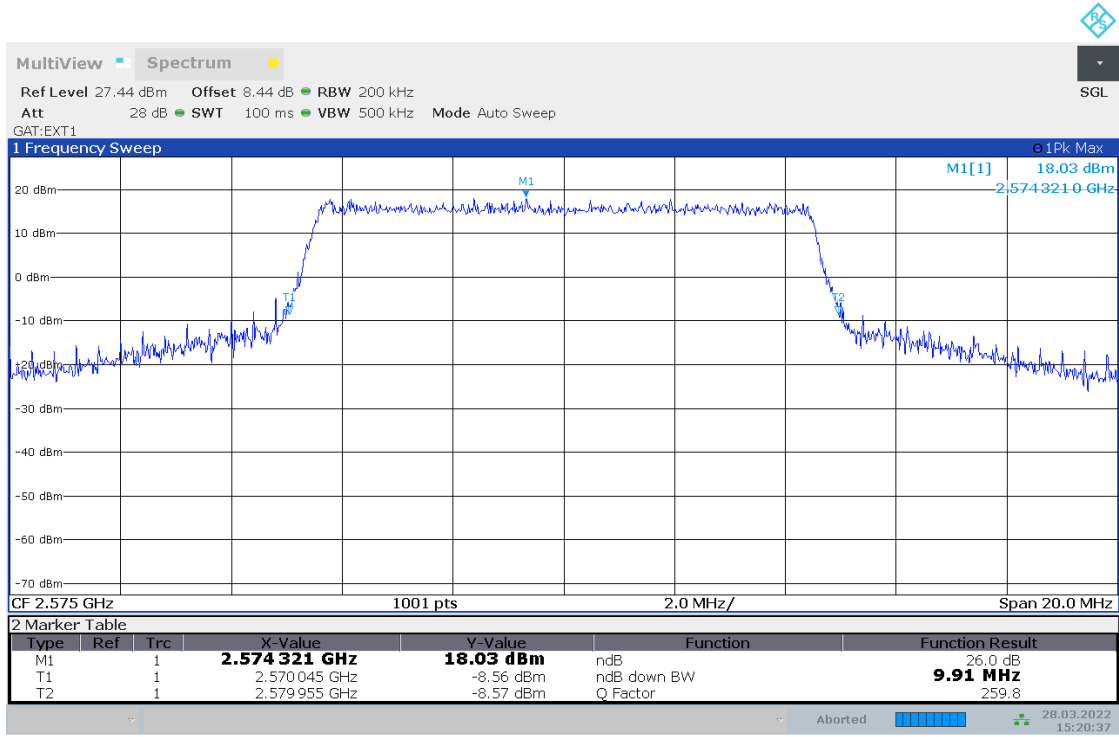


15:18:56 28.03.2022

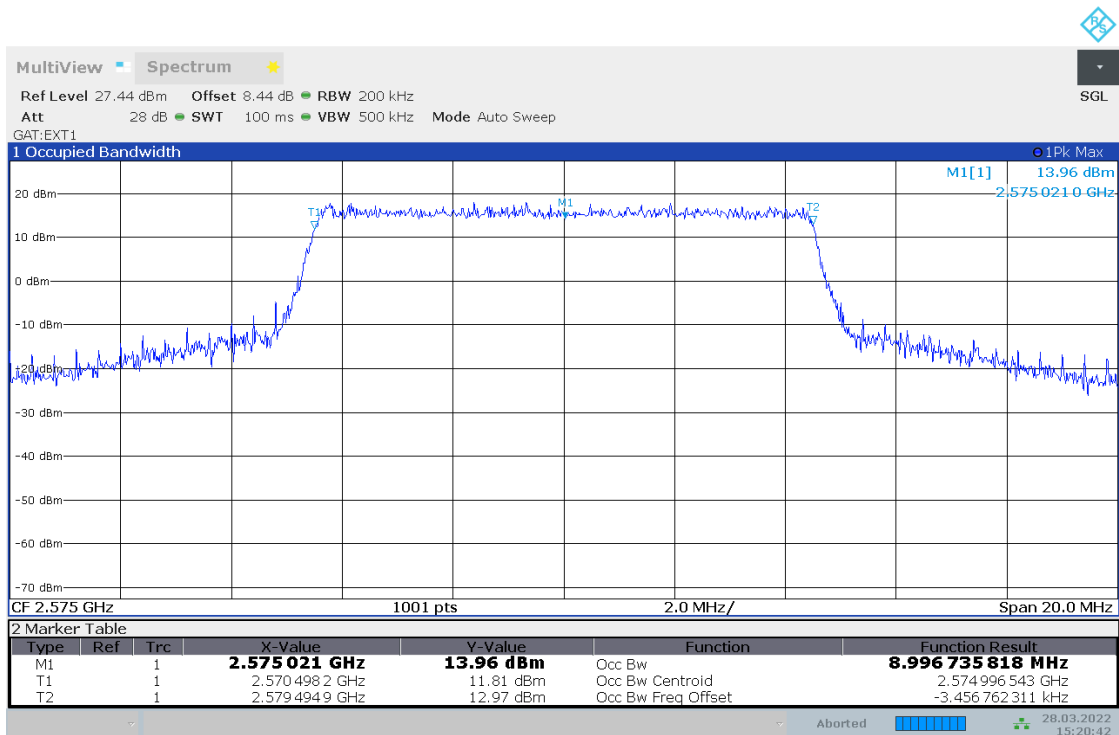
## 4.2.15 TM2\_5MHZ\_HCH\_RB25#0



## 4.2.16 TM2\_10MHZ\_LCH\_RB50#0

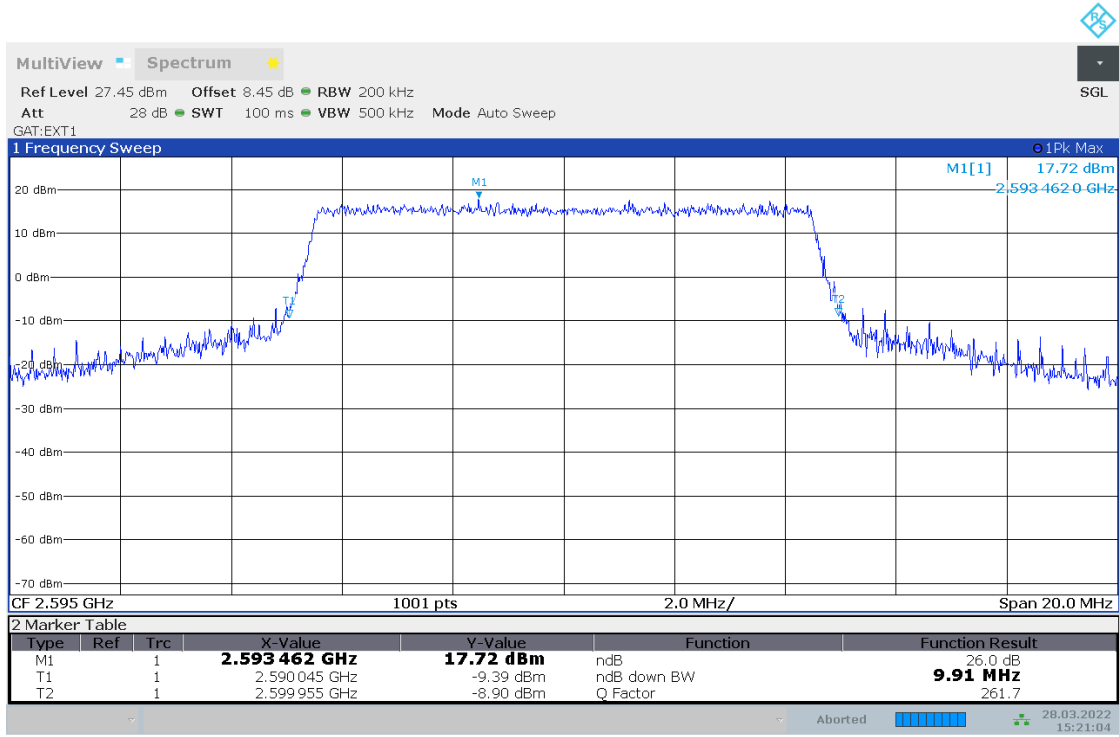


15:20:37 28.03.2022

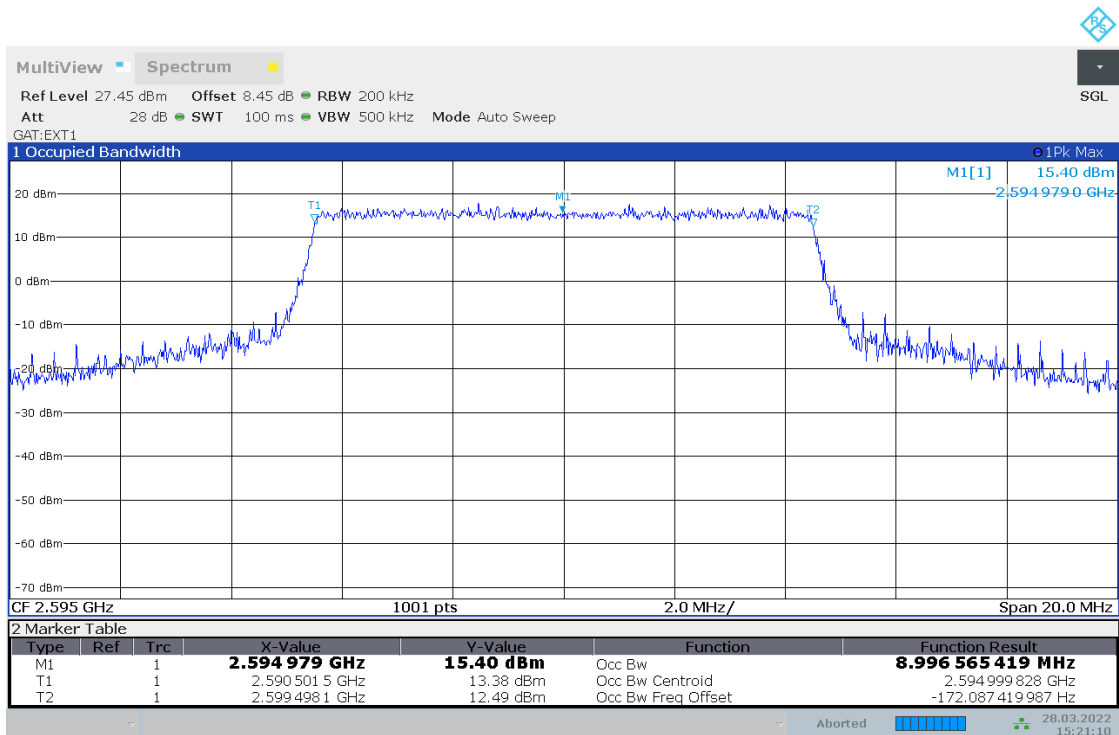


15:20:42 28.03.2022

## 4.2.17 TM2\_10MHZ\_MCH\_RB50#0

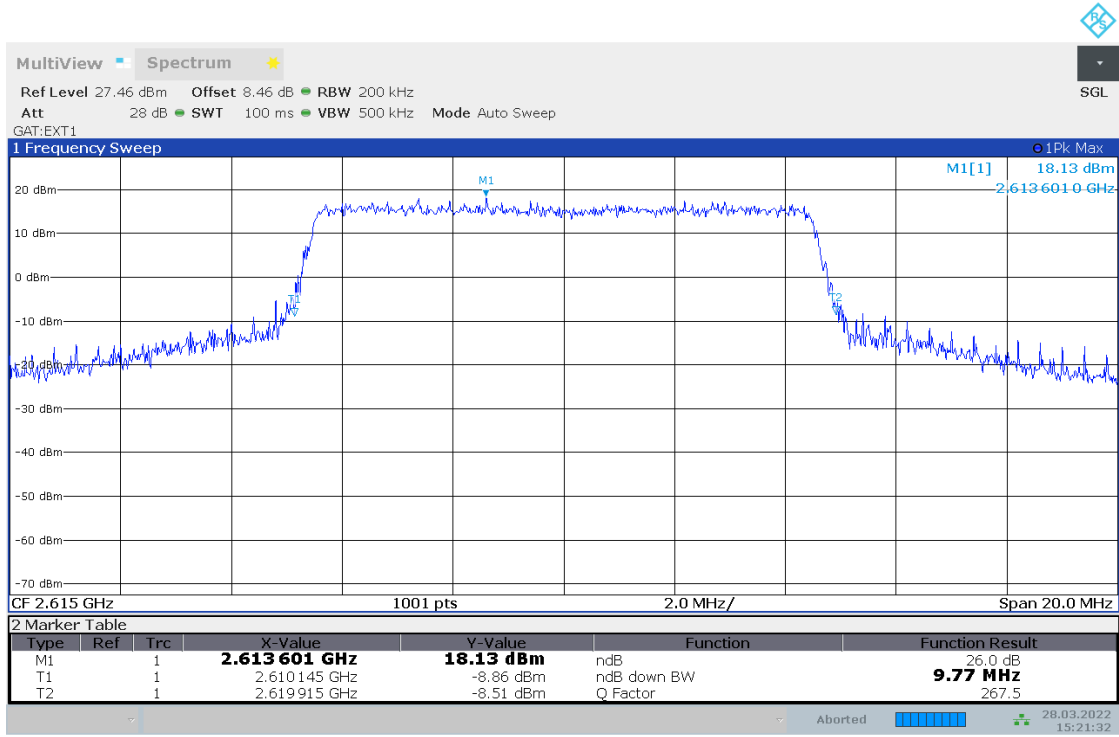


15:21:05 28.03.2022

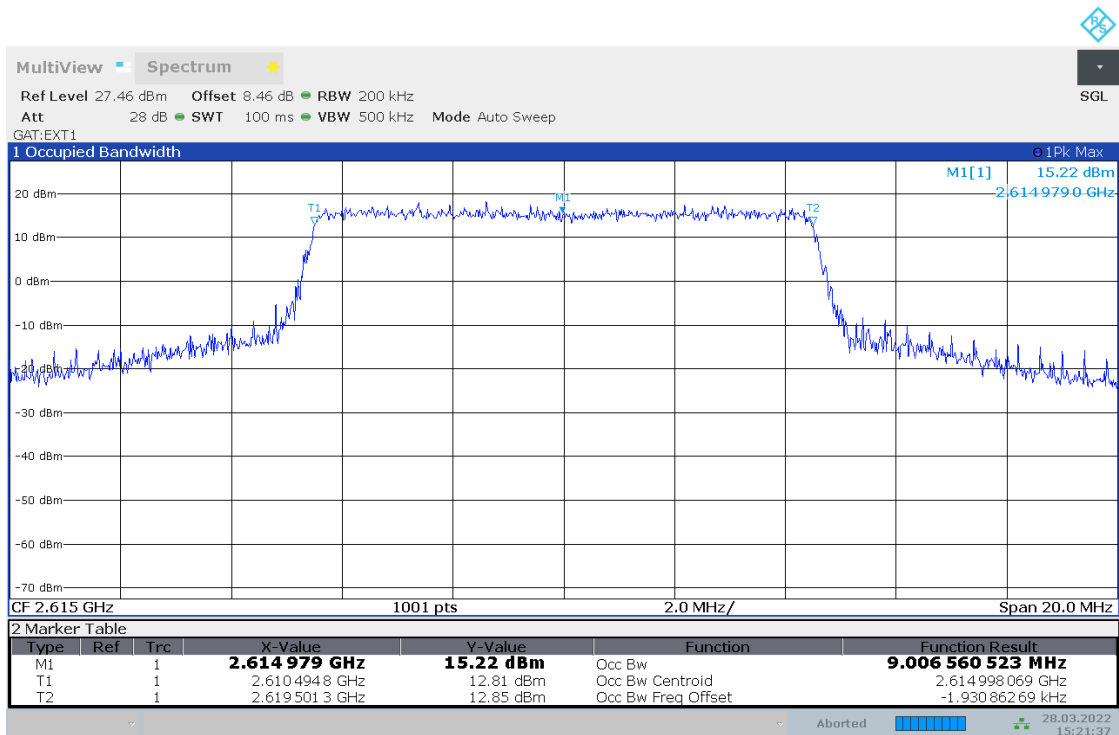


15:21:10 28.03.2022

## 4.2.18 TM2\_10MHZ\_HCH\_RB50#0

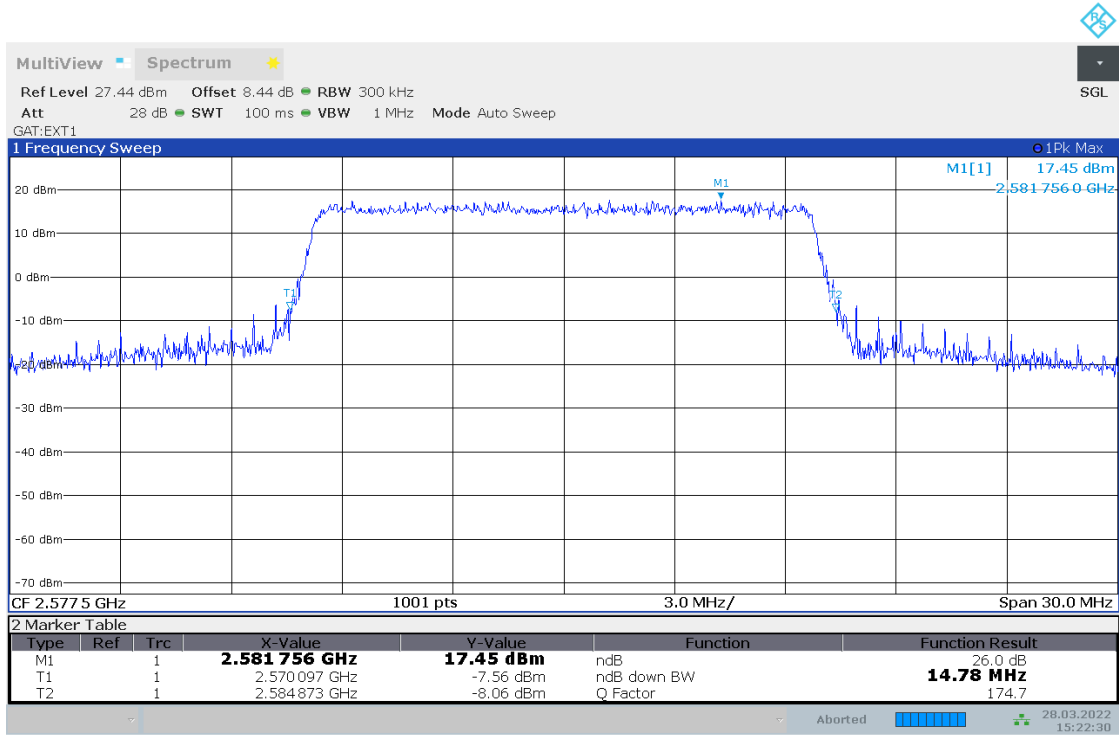


15:21:32 28.03.2022

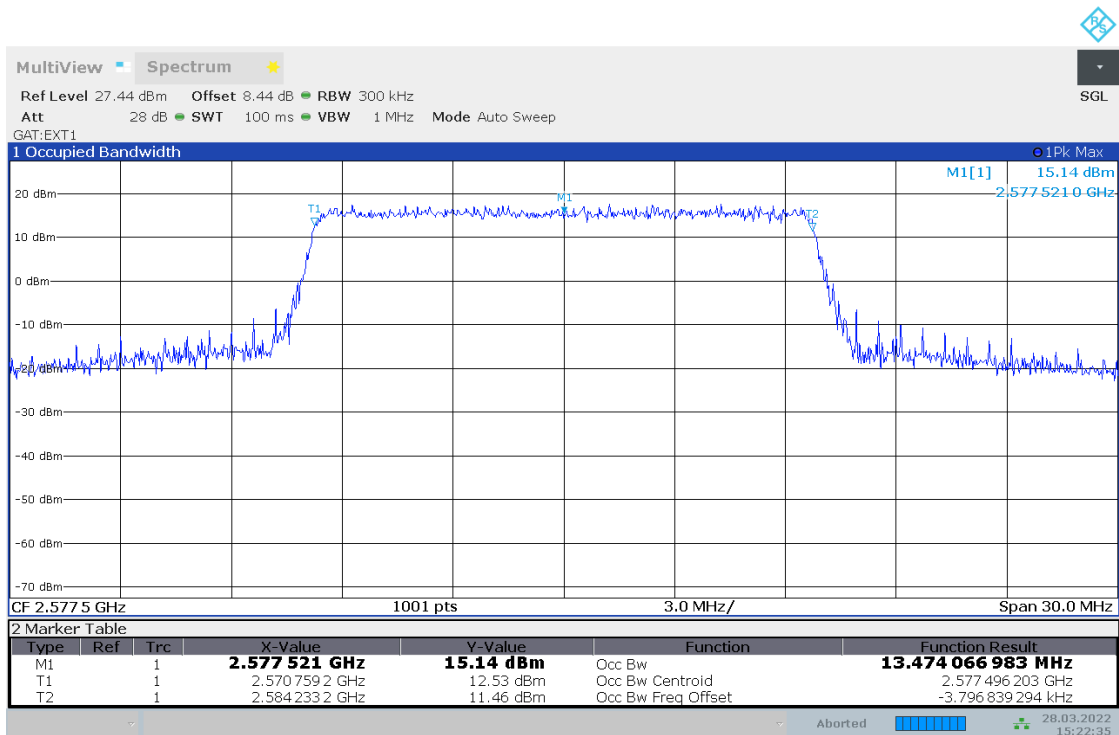


15:21:38 28.03.2022

## 4.2.19 TM2\_15MHZ\_LCH\_RB75#0

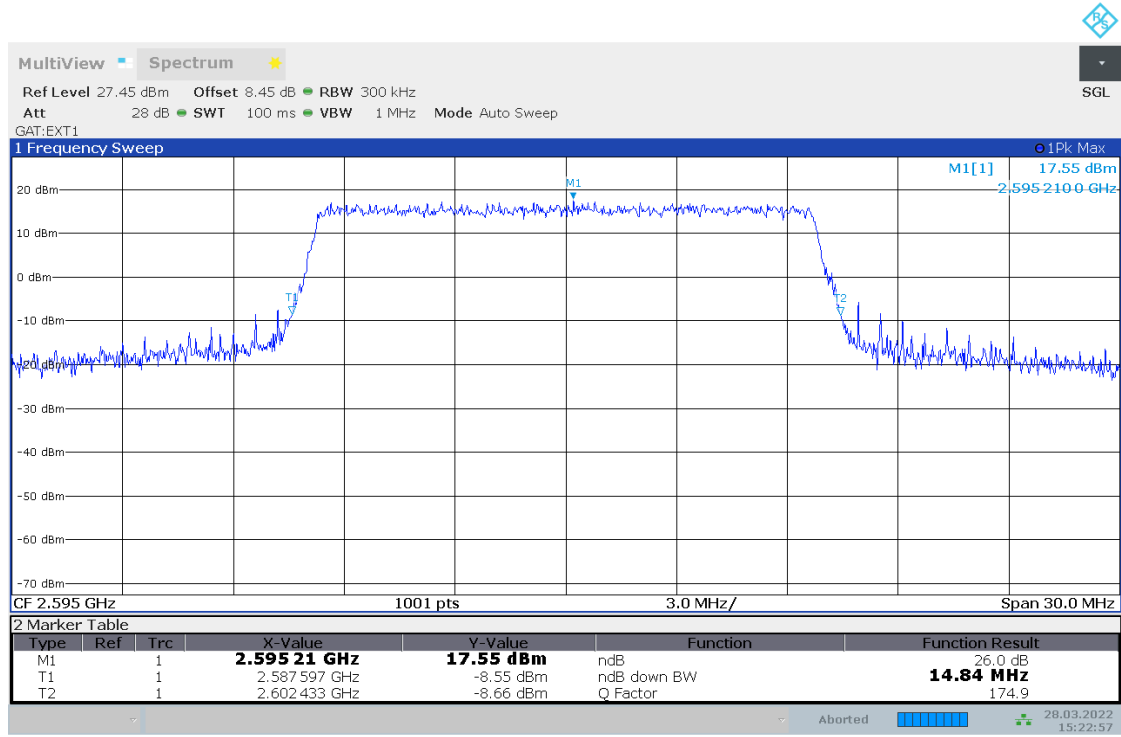


15:22:30 28.03.2022

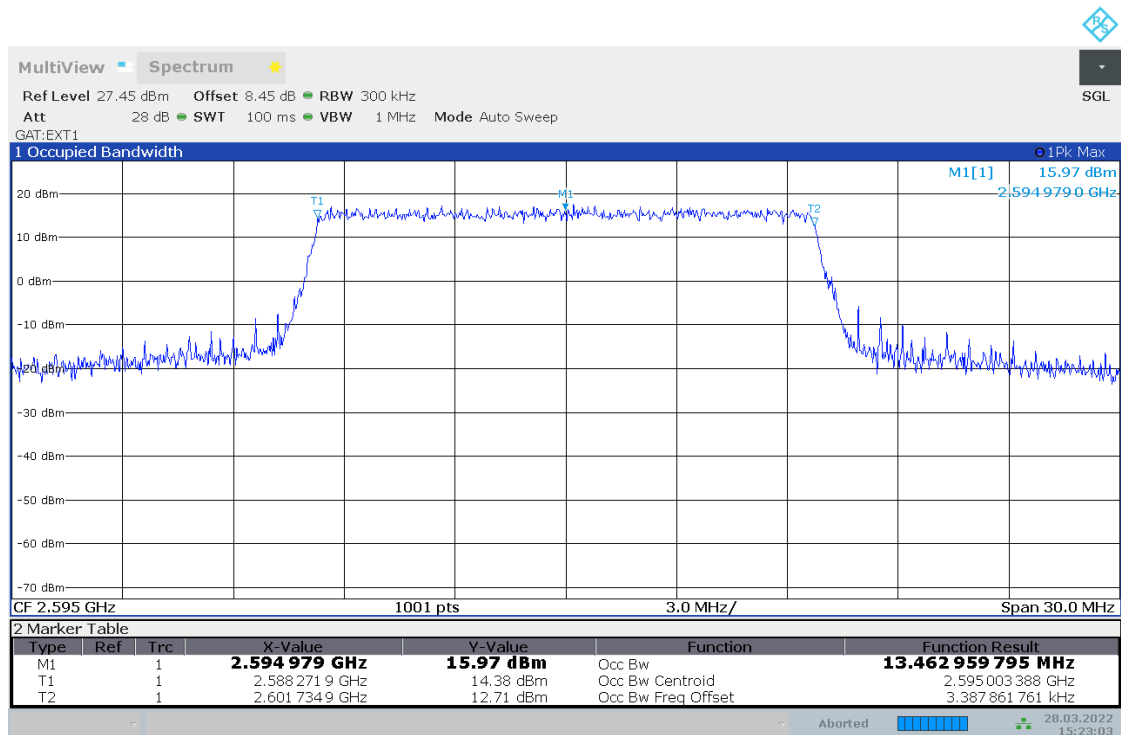


15:22:36 28.03.2022

## 4.2.20 TM2\_15MHZ\_MCH\_RB75#0

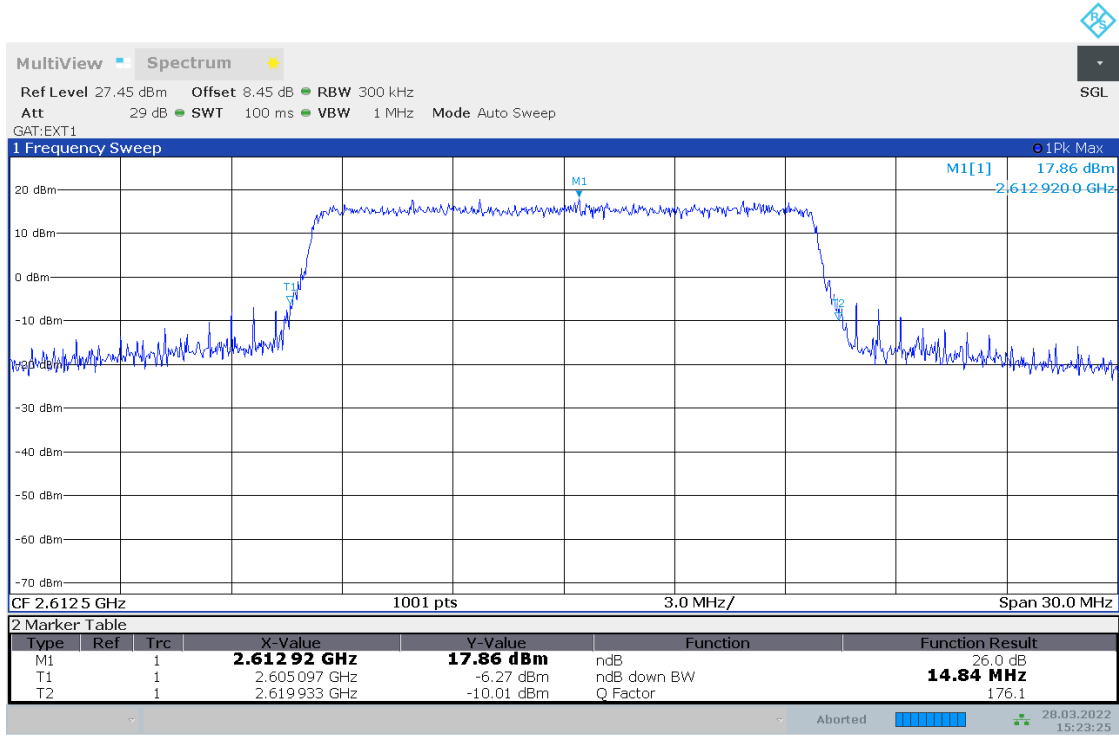


15:22:58 28.03.2022

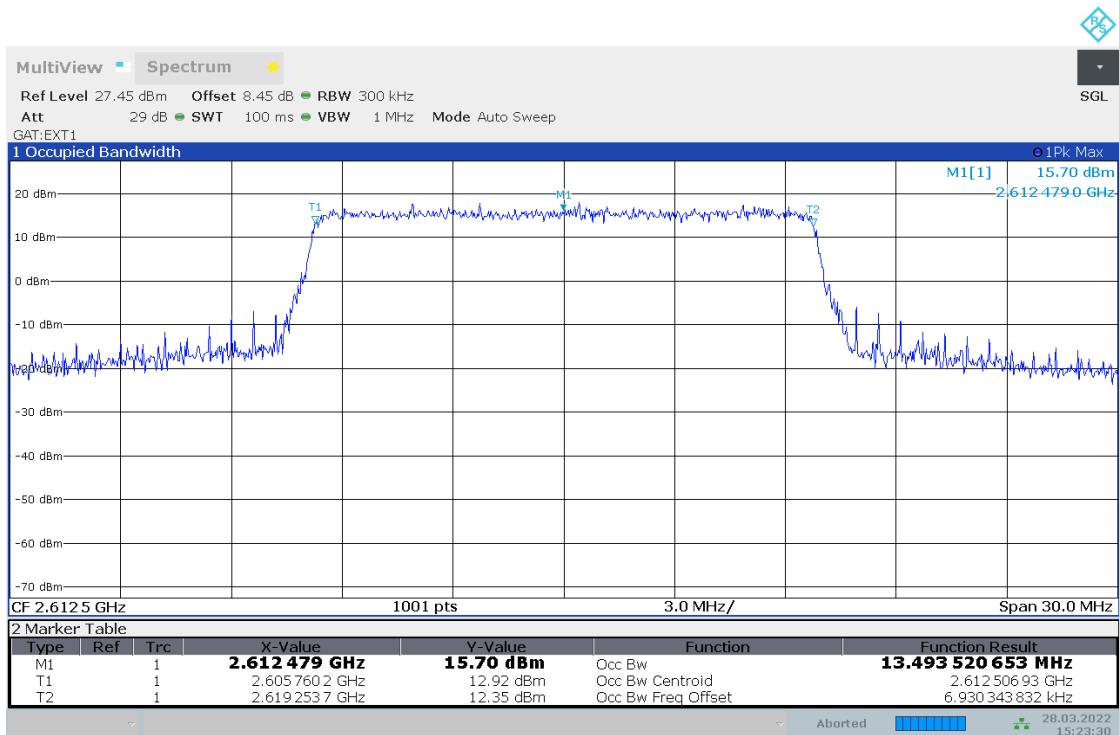


15:23:03 28.03.2022

## 4.2.21 TM2\_15MHZ\_HCH\_RB75#0



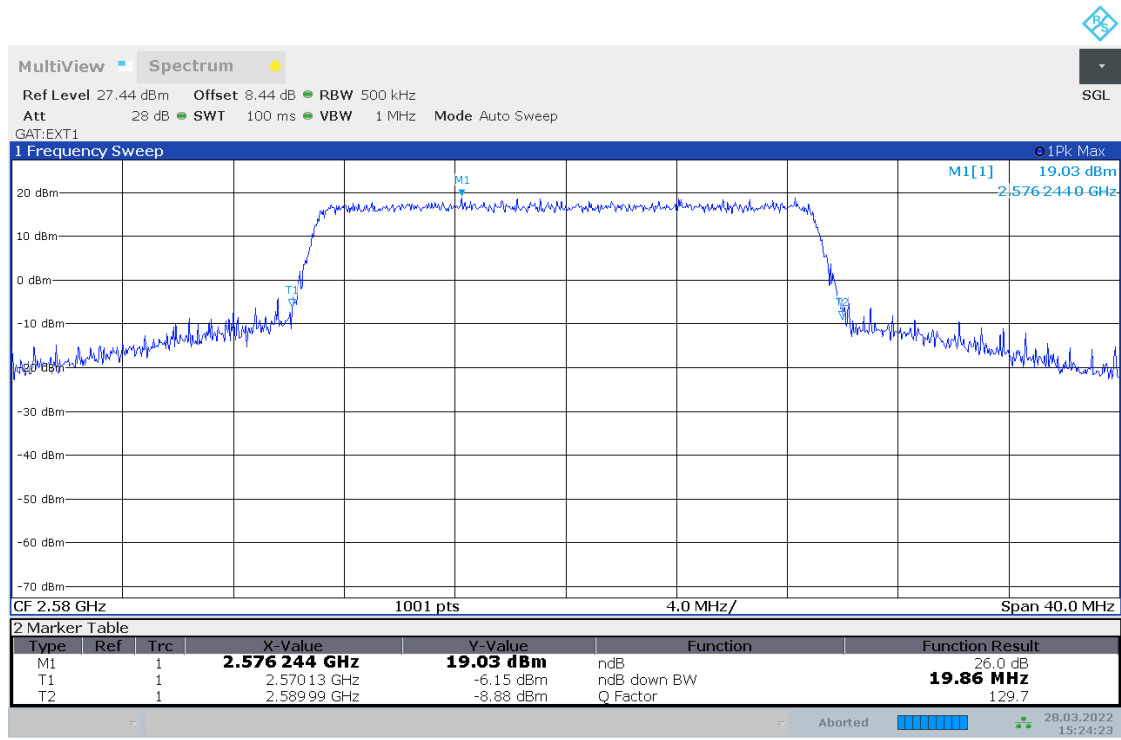
15:23:26 28.03.2022



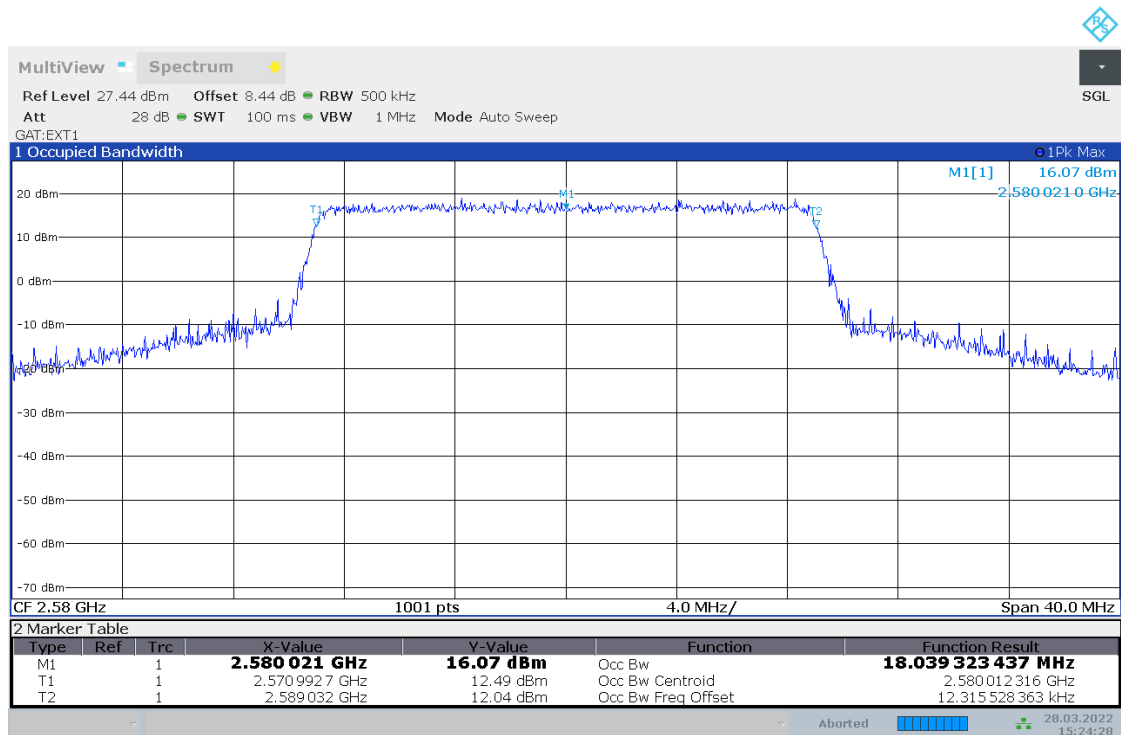
15:23:31 28.03.2022



## 4.2.22 TM2\_20MHZ\_LCH\_RB100#0

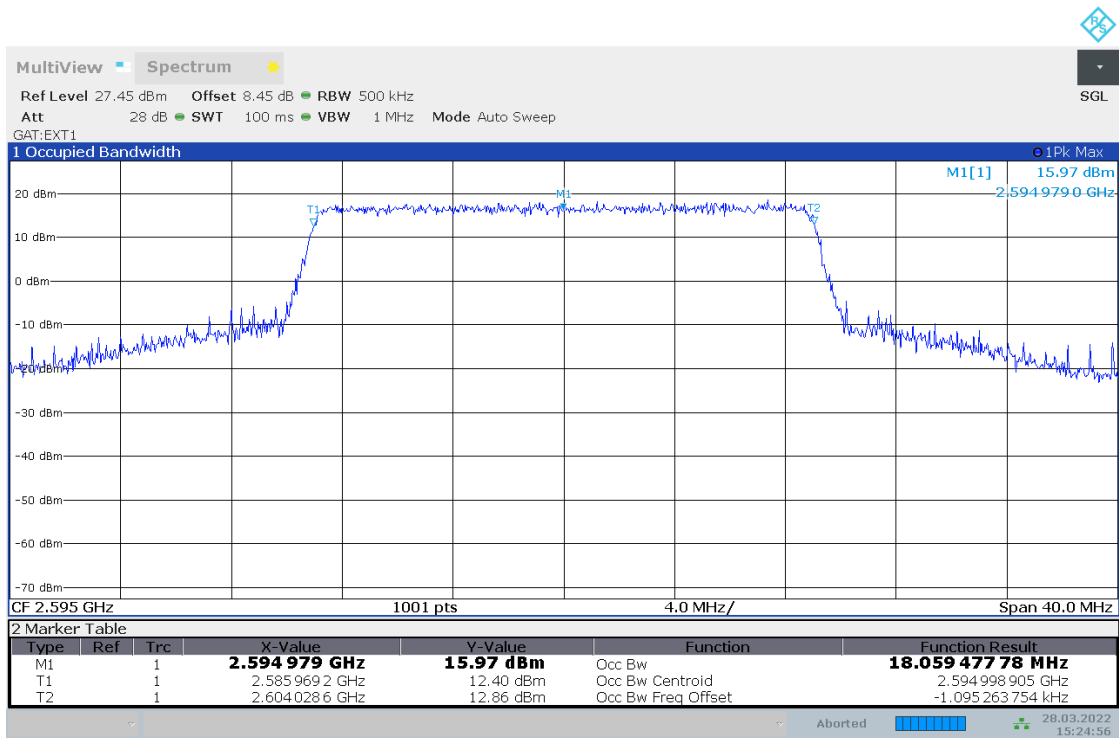
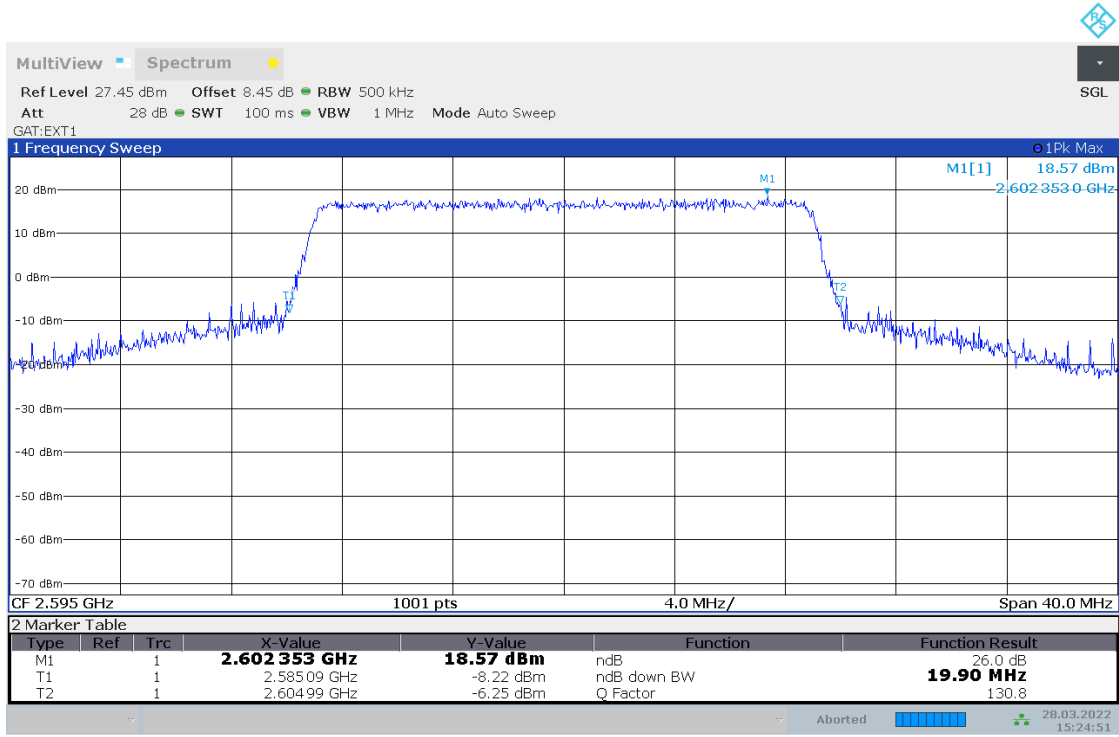


15:24:23 28.03.2022

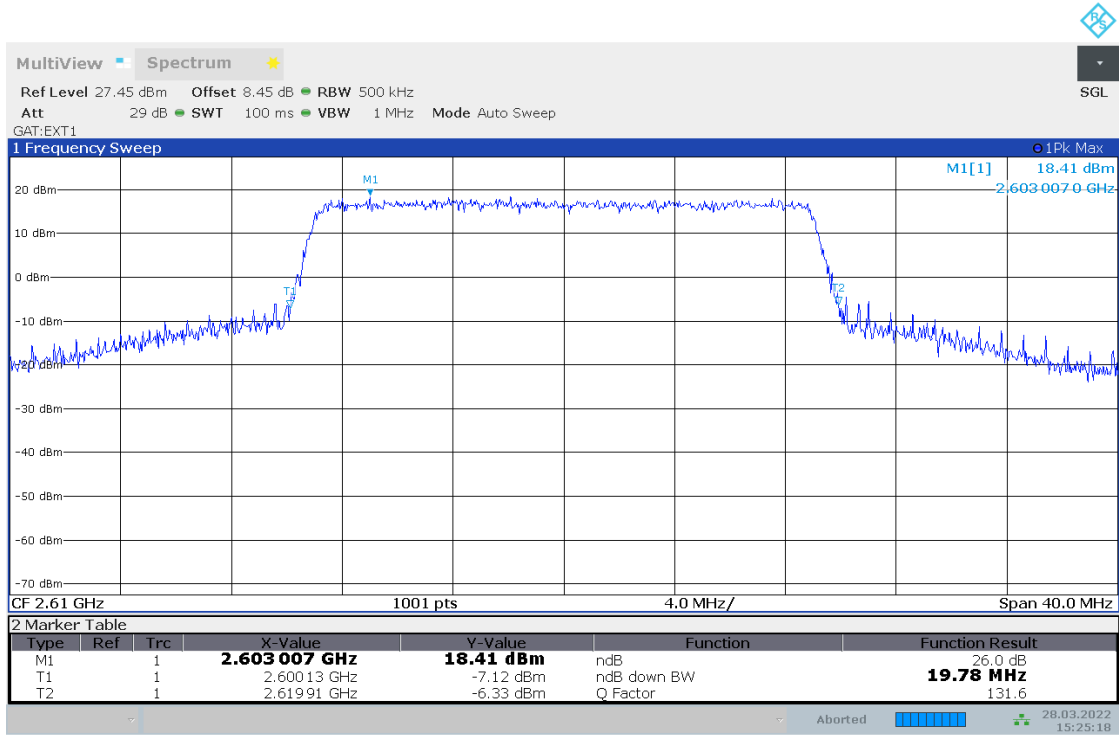


15:24:29 28.03.2022

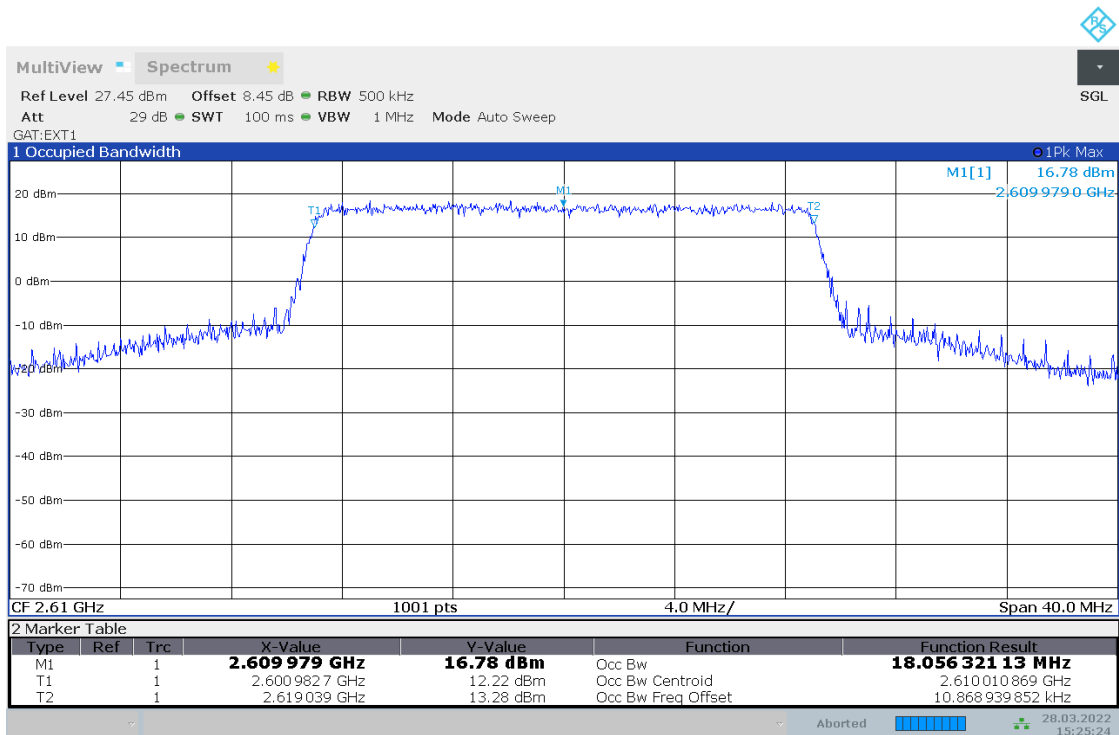
## 4.2.23 TM2\_20MHZ\_MCH\_RB100#0



## 4.2.24 TM2\_20MHZ\_HCH\_RB100#0

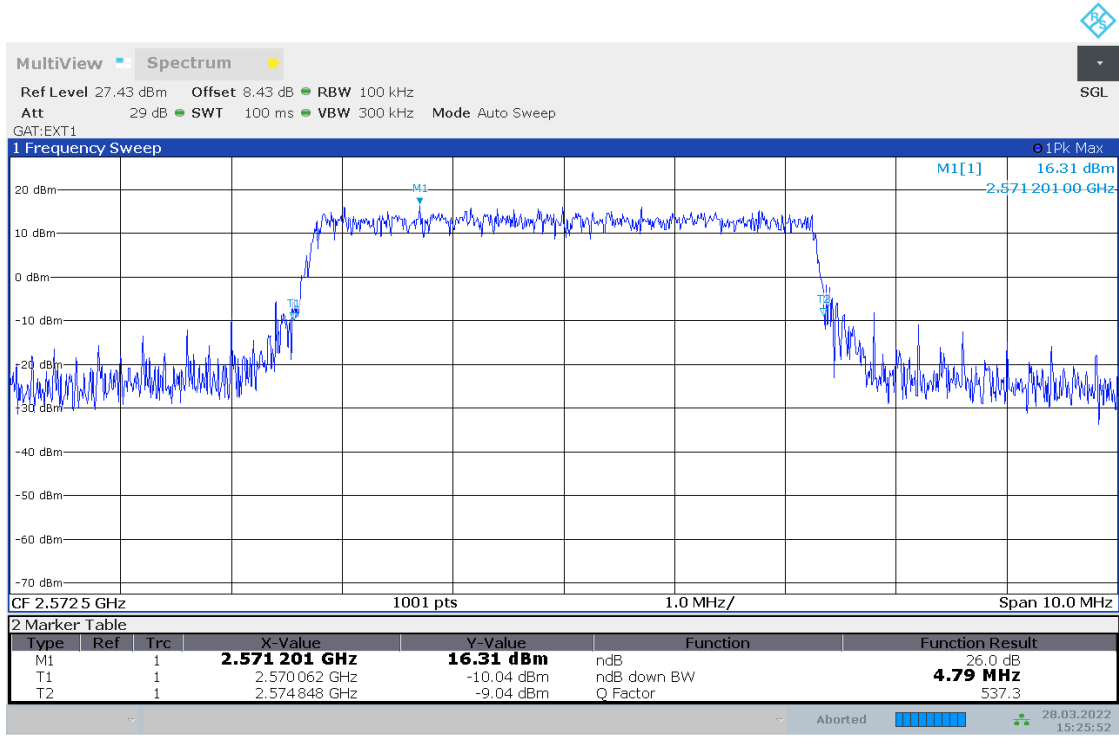


15:25:19 28.03.2022

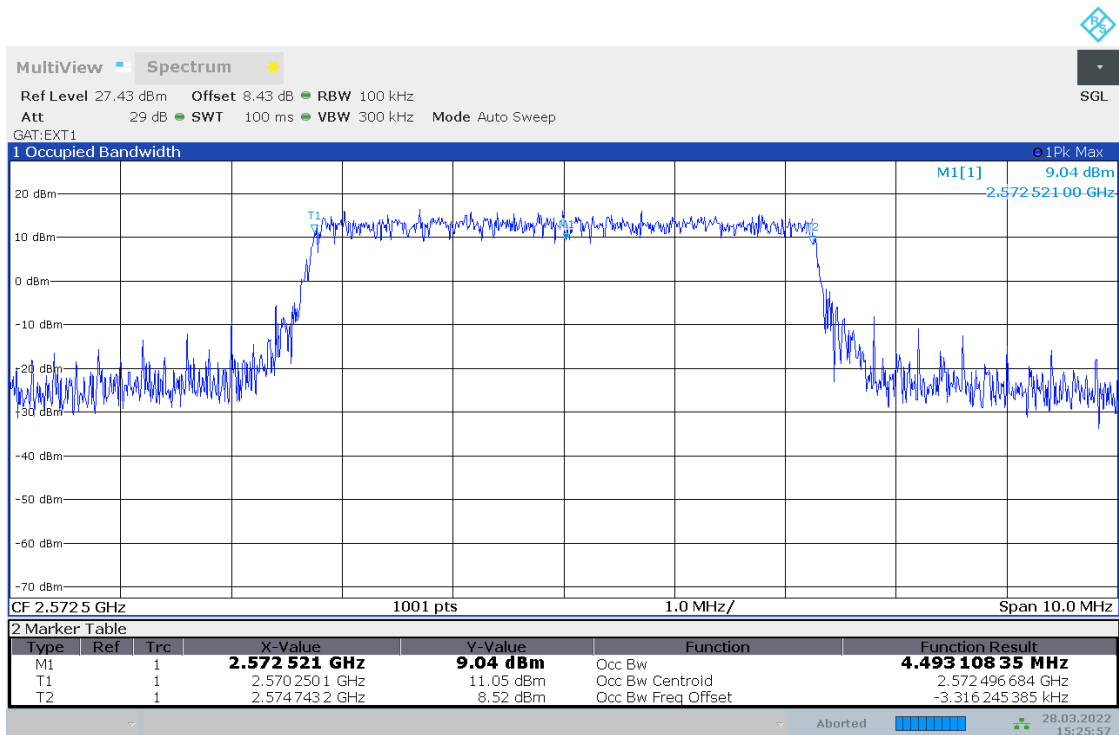


15:25:24 28.03.2022

## 4.2.25 TM3\_5MHZ\_LCH\_RB25#0

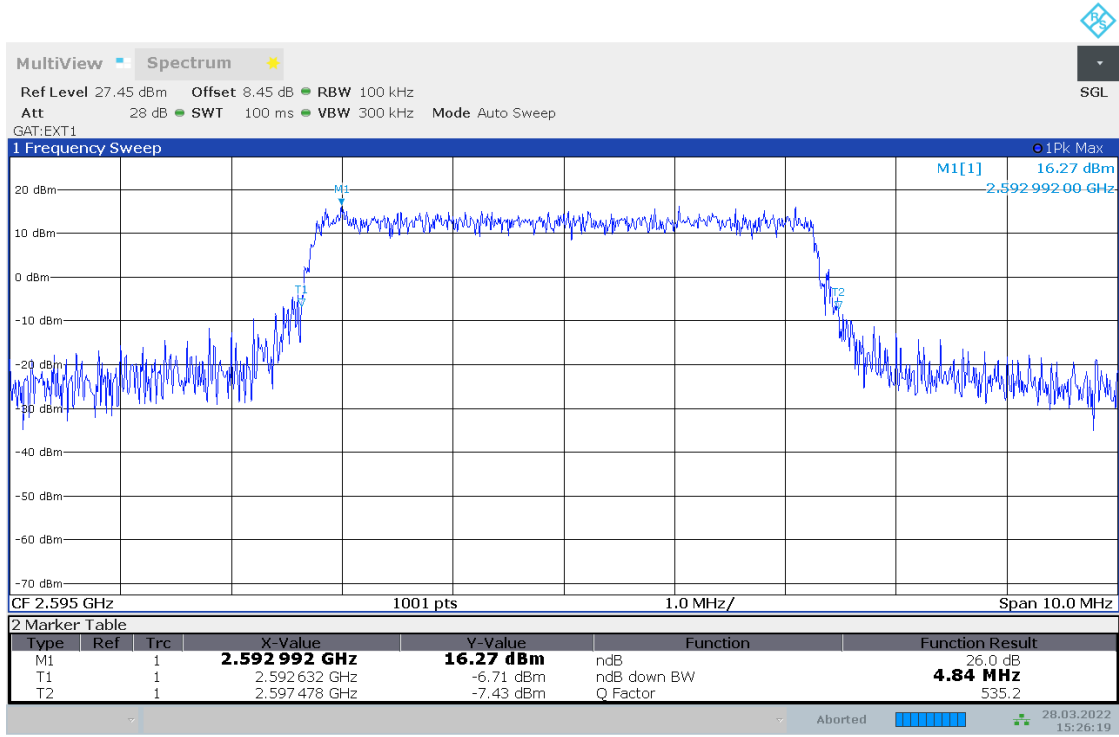


15:25:52 28.03.2022

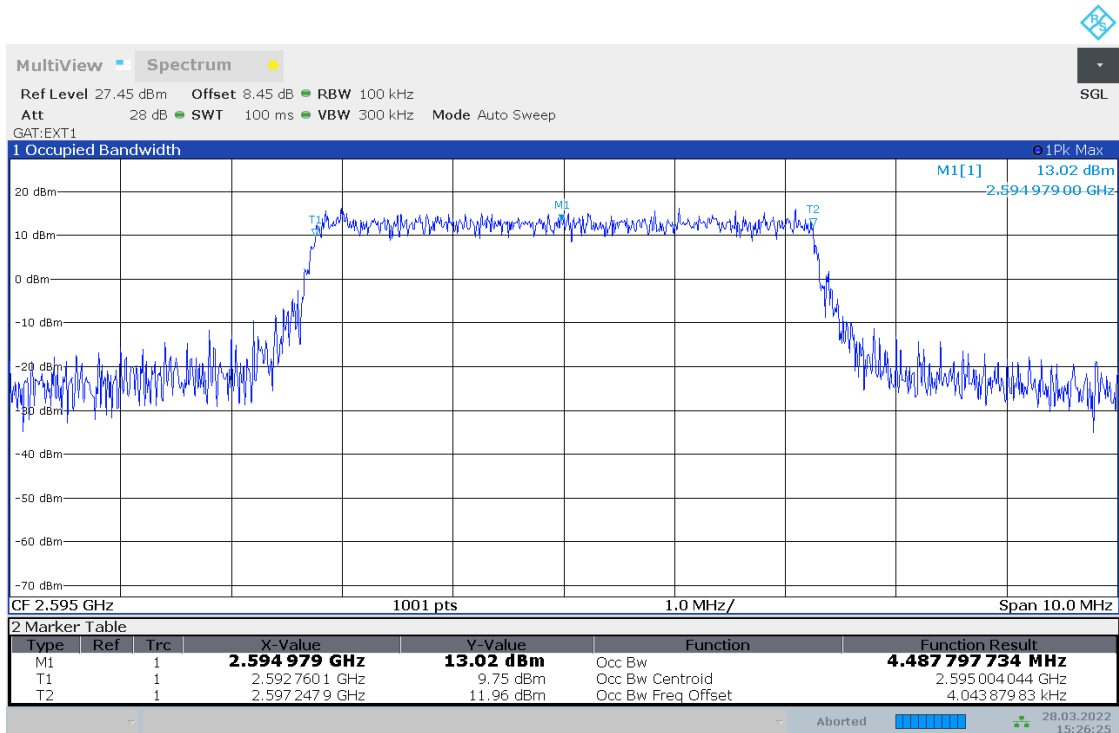


15:25:58 28.03.2022

## 4.2.26 TM3\_5MHZ\_MCH\_RB25#0

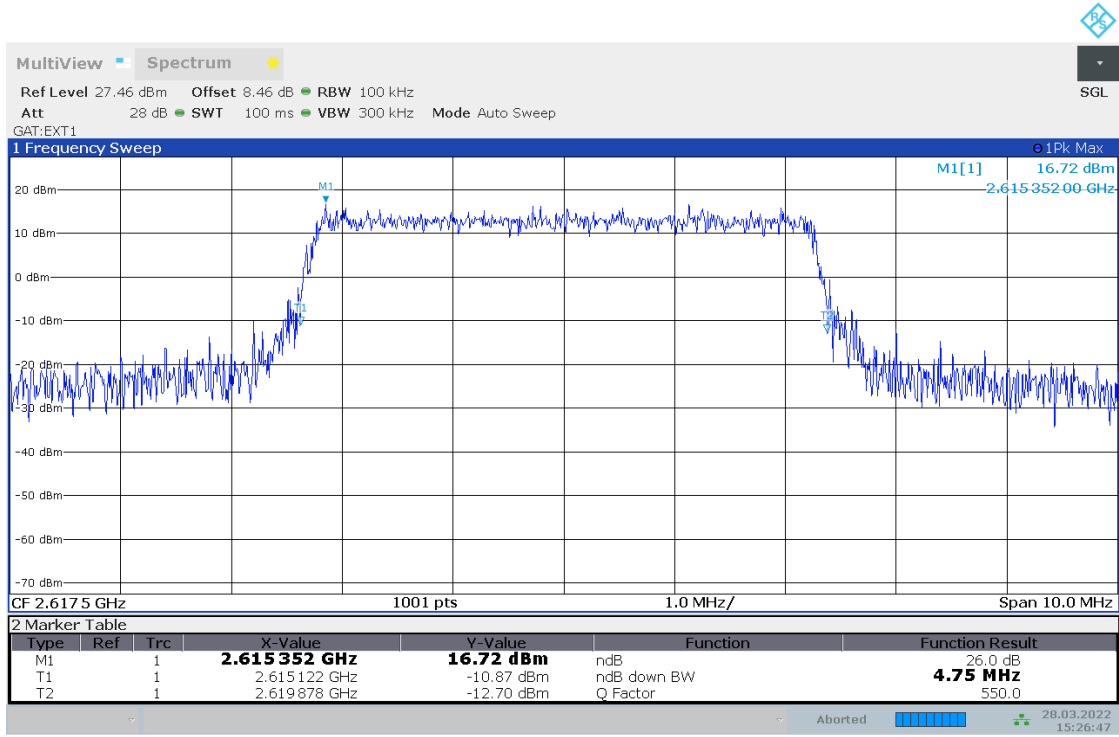


15:26:20 28.03.2022

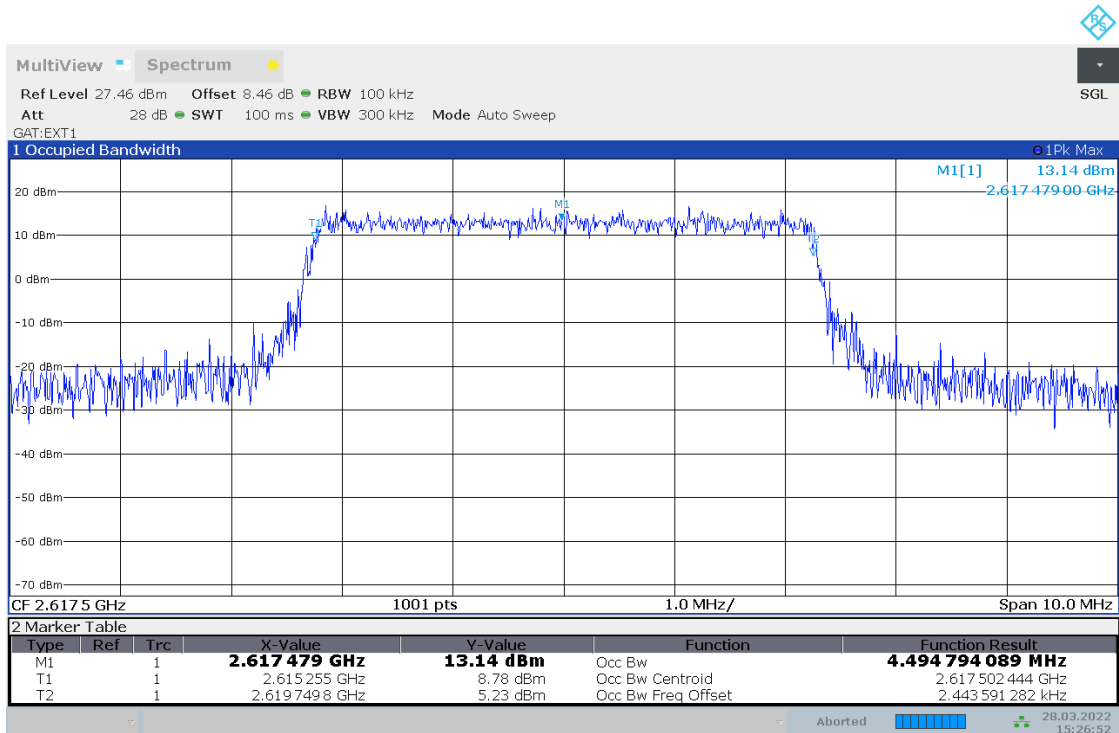


15:26:25 28.03.2022

## 4.2.27 TM3\_5MHZ\_HCH\_RB25#0

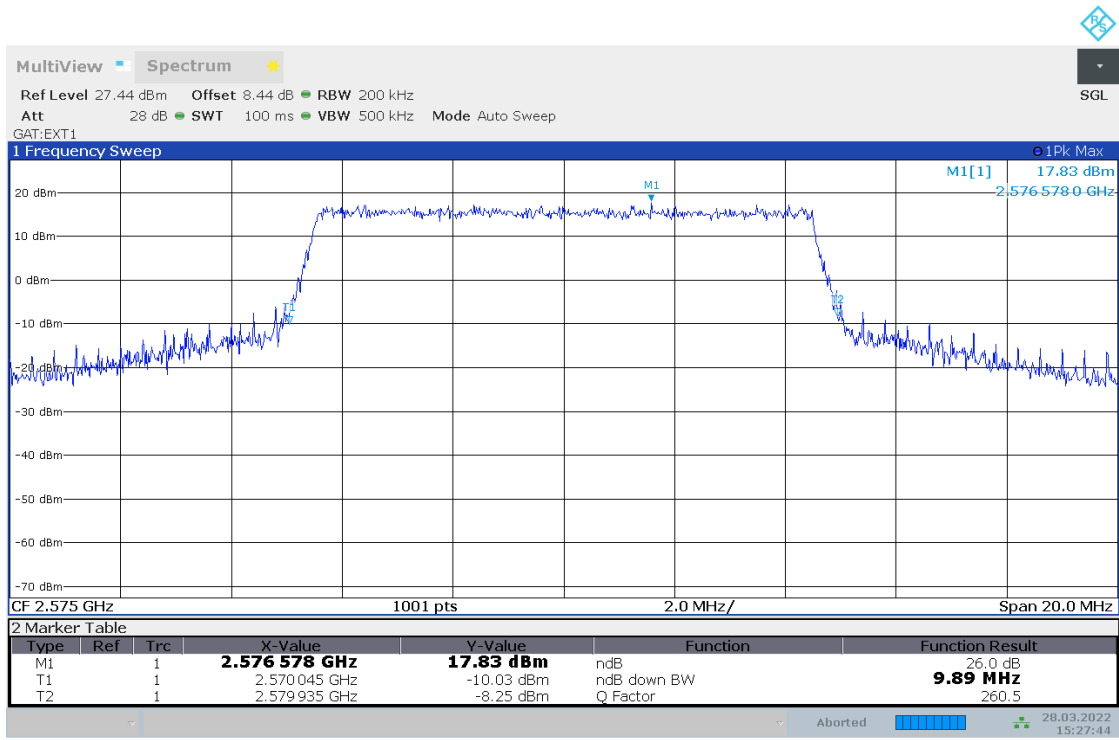


15:26:47 28.03.2022

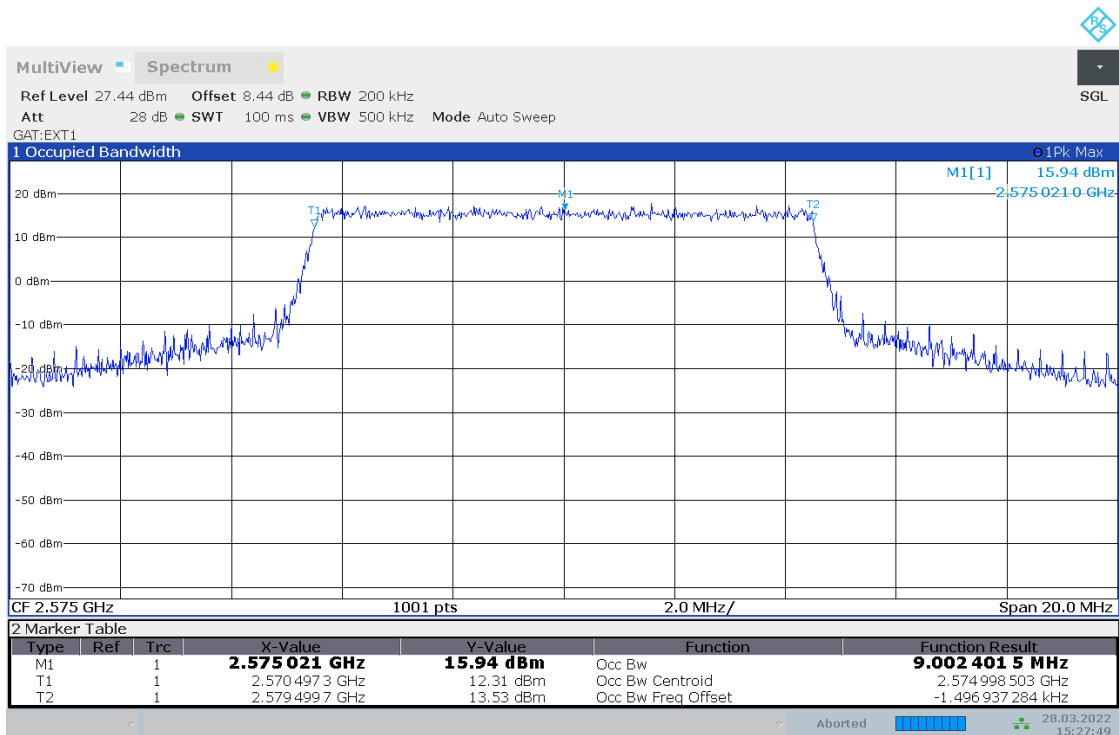


15:26:53 28.03.2022

## 4.2.28 TM3\_10MHZ\_LCH\_RB50#0

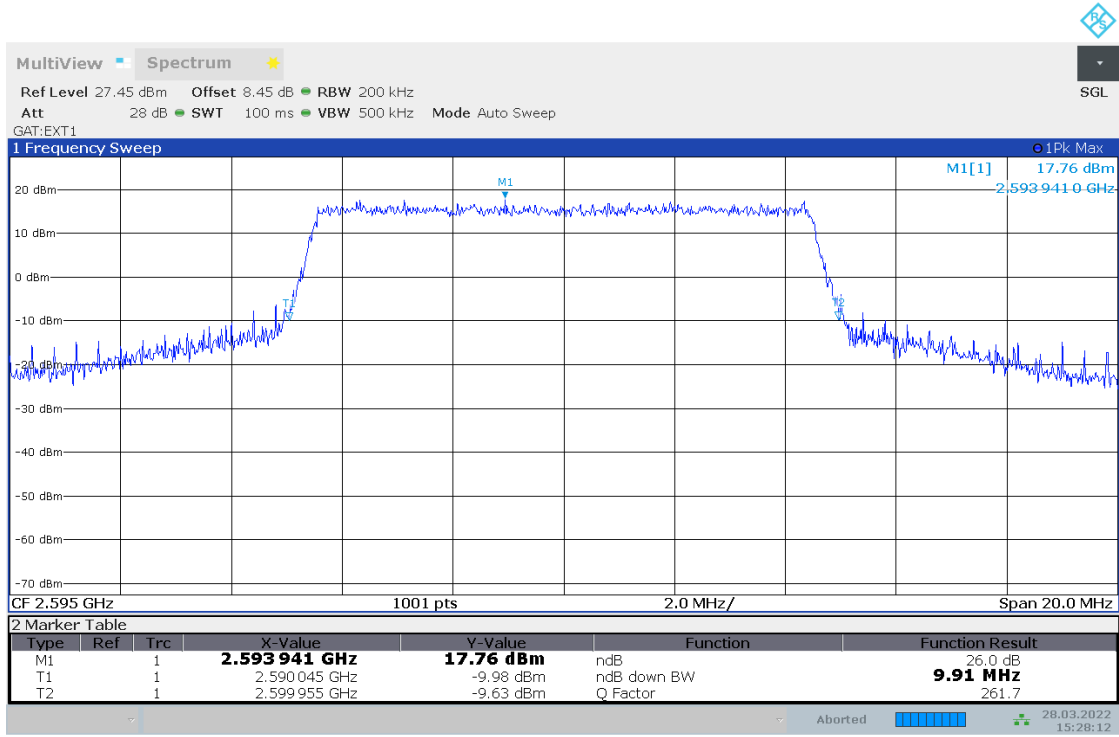


15:27:45 28.03.2022

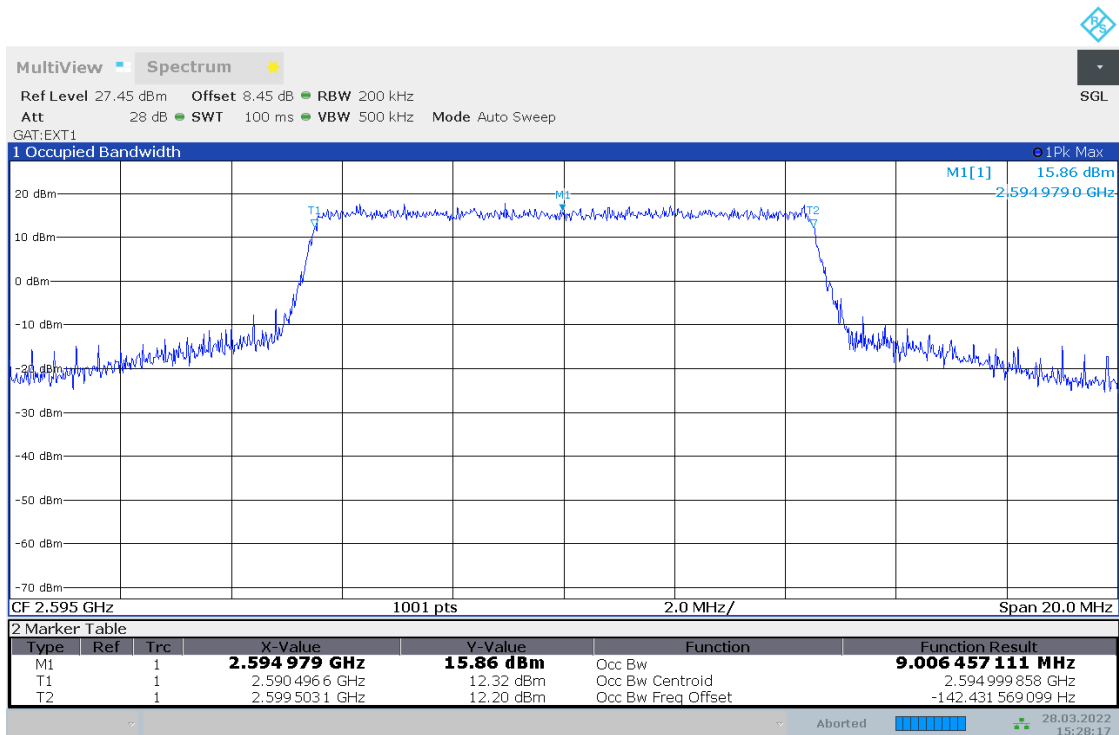


15:27:50 28.03.2022

## 4.2.29 TM3\_10MHZ\_MCH\_RB50#0



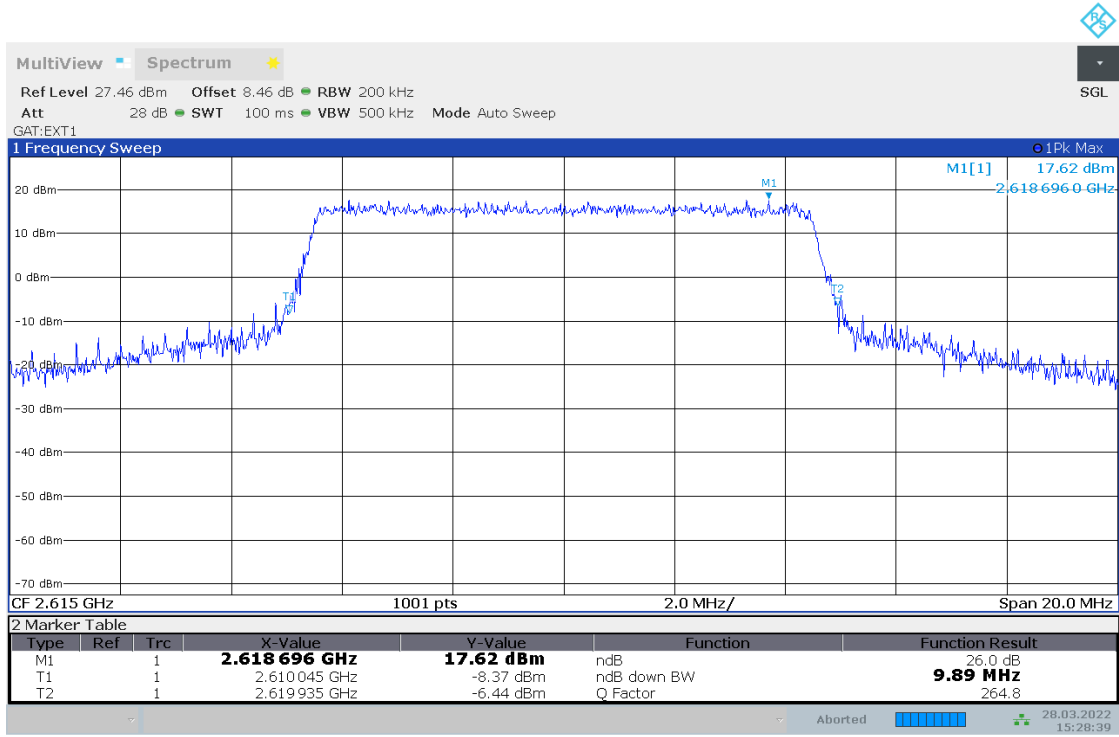
15:28:12 28.03.2022



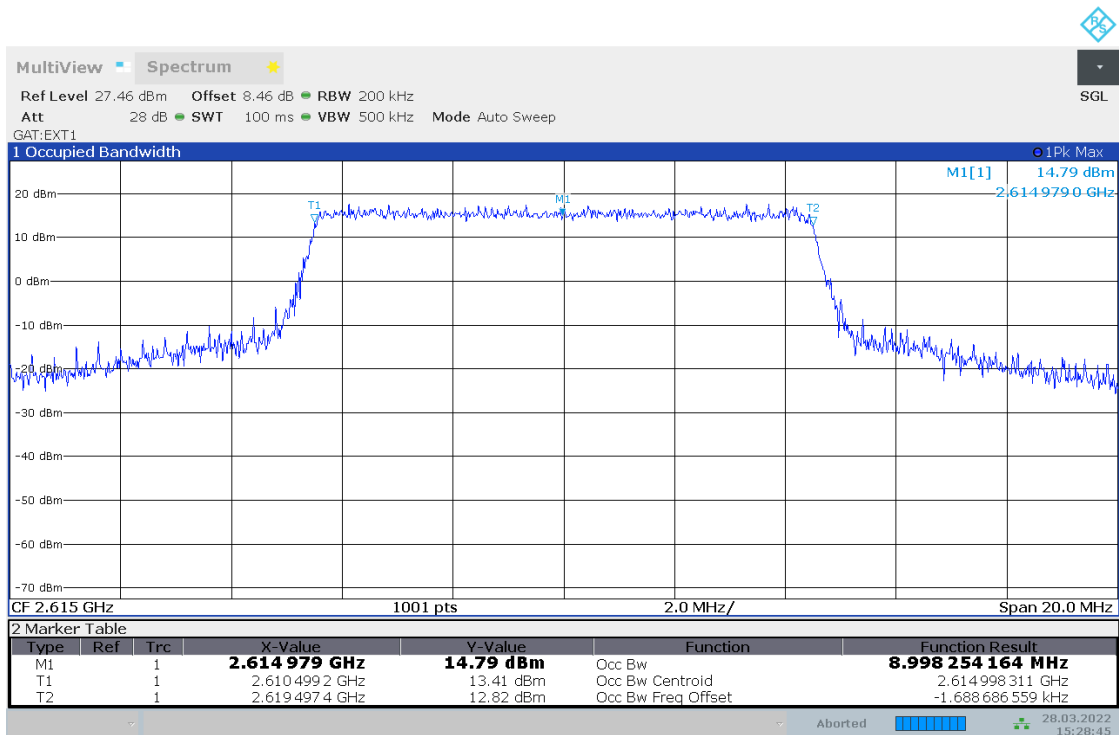
15:28:18 28.03.2022



## 4.2.30 TM3\_10MHZ\_HCH\_RB50#0

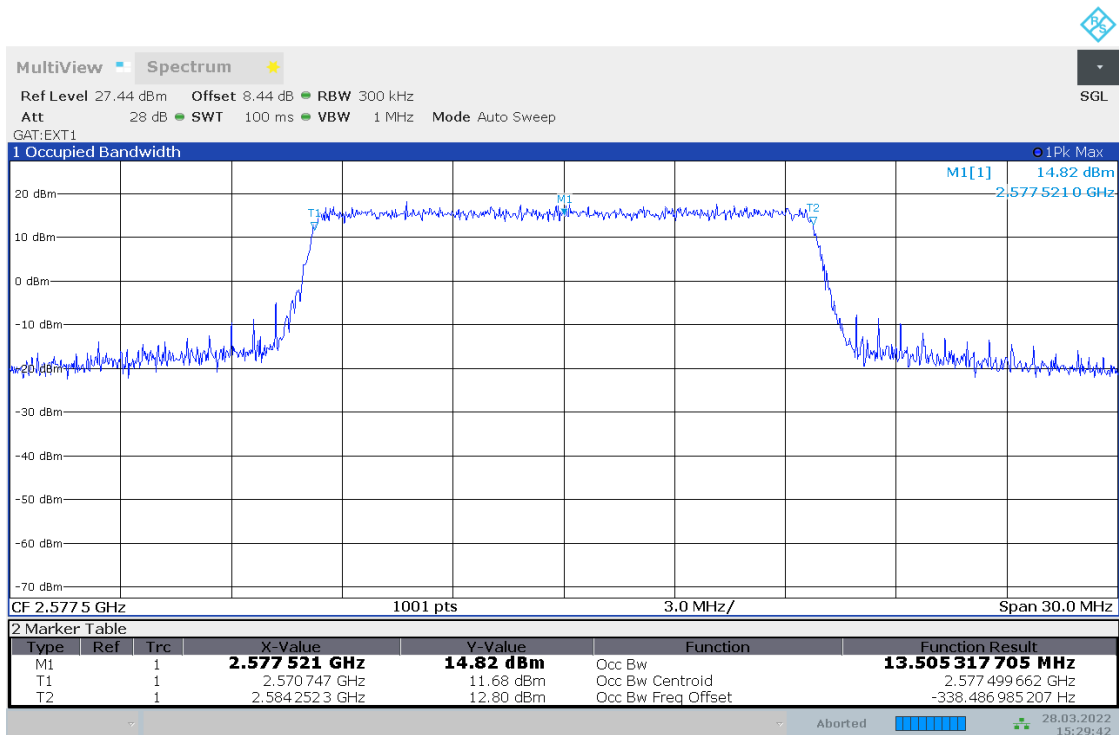
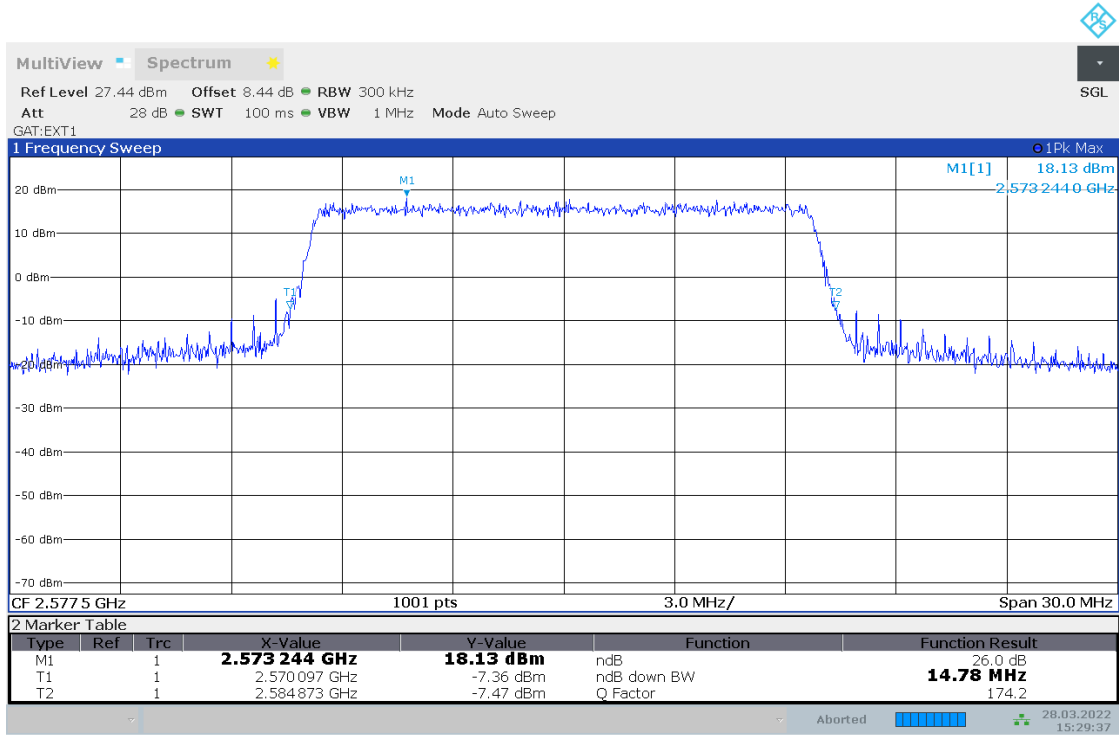


15:28:40 28.03.2022

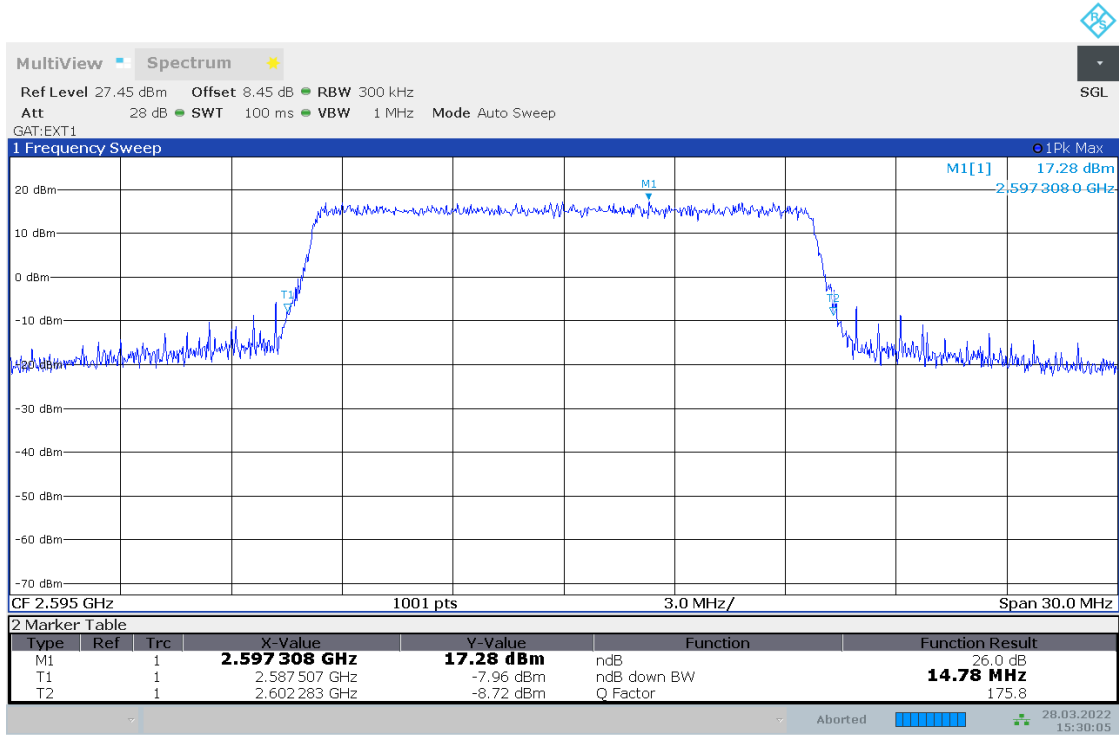


15:28:45 28.03.2022

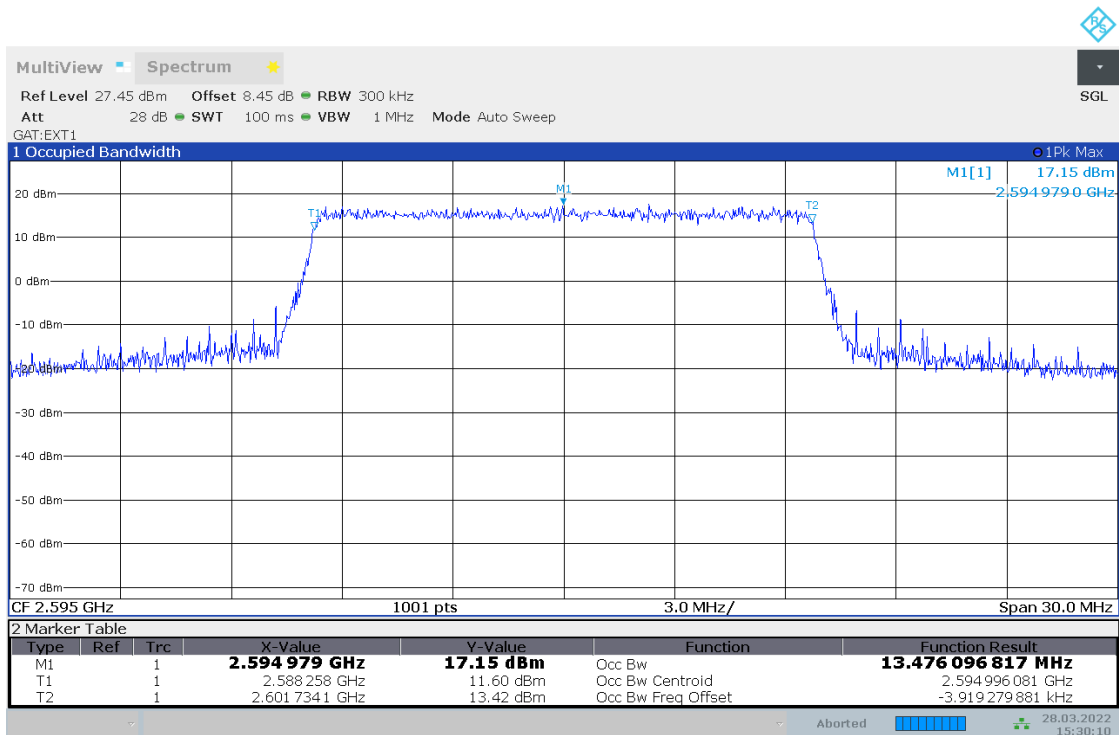
## 4.2.31 TM3\_15MHZ\_LCH\_RB75#0



## 4.2.32 TM3\_15MHZ\_MCH\_RB75#0

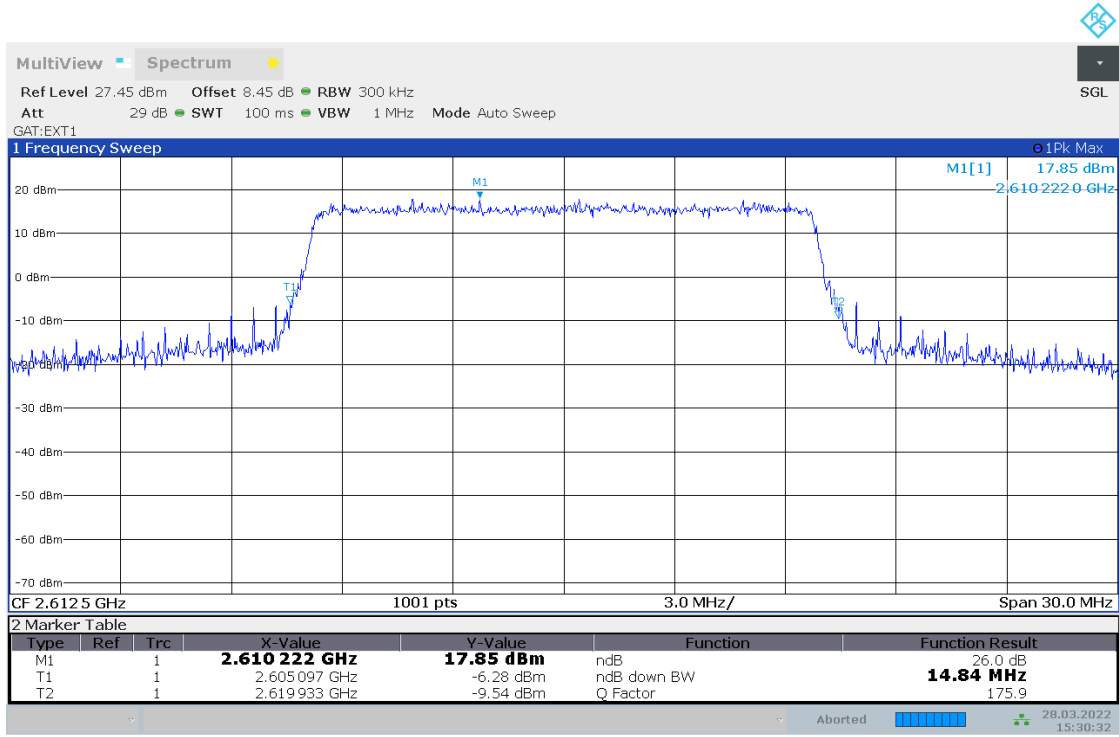


15:30:05 28.03.2022

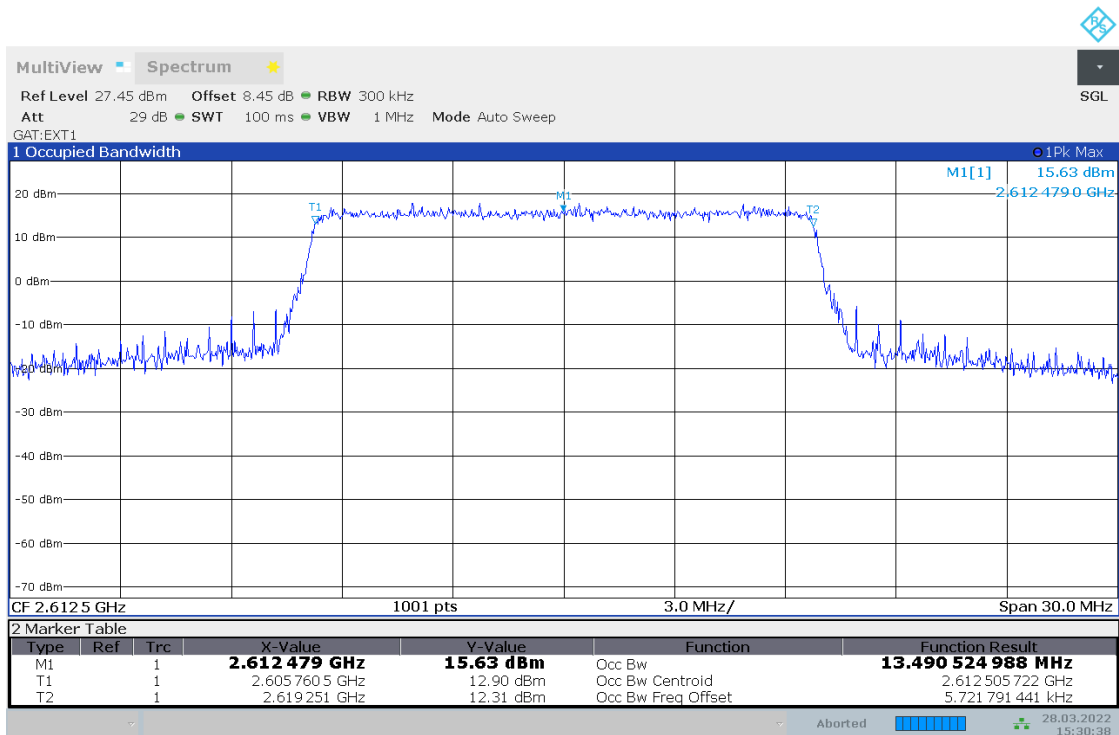


15:30:11 28.03.2022

## 4.2.33 TM3\_15MHZ\_HCH\_RB75#0

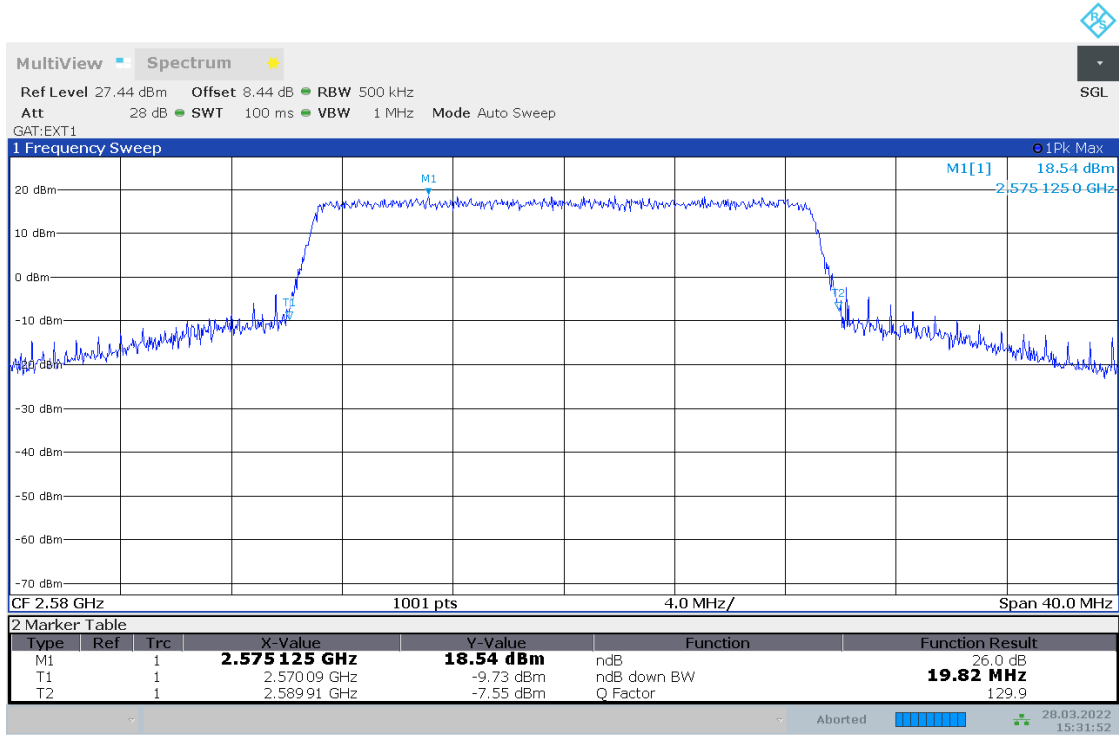


15:30:33 28.03.2022

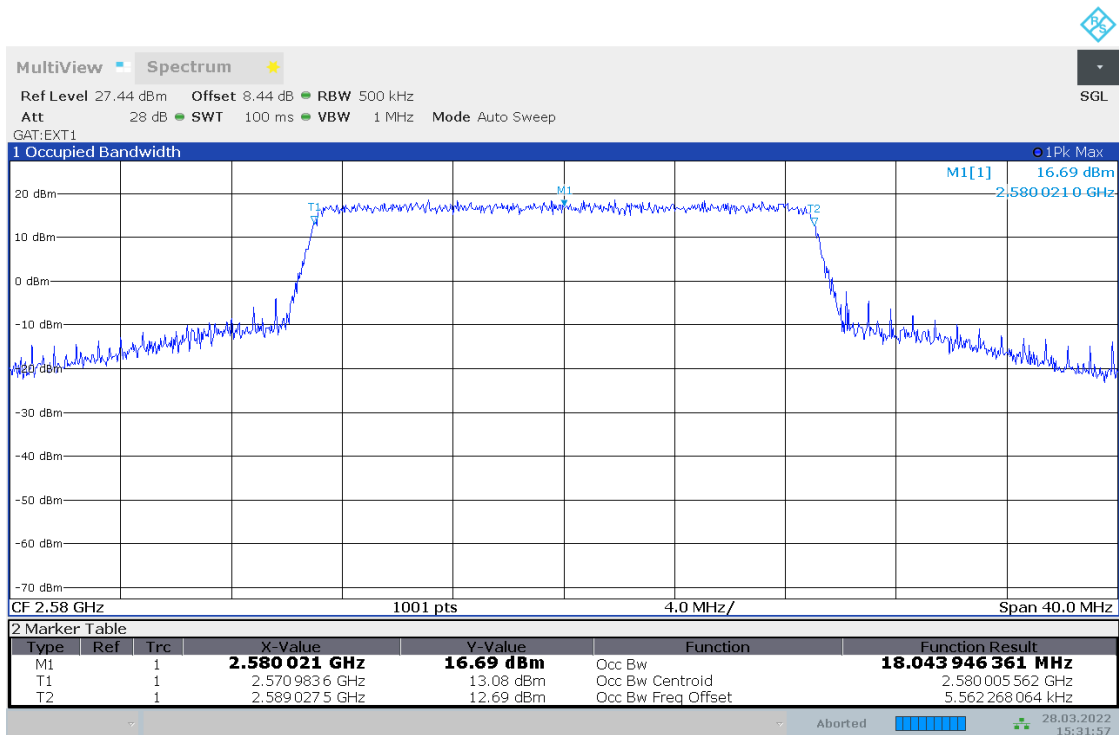


15:30:38 28.03.2022

## 4.2.34 TM3\_20MHZ\_LCH\_RB100#0

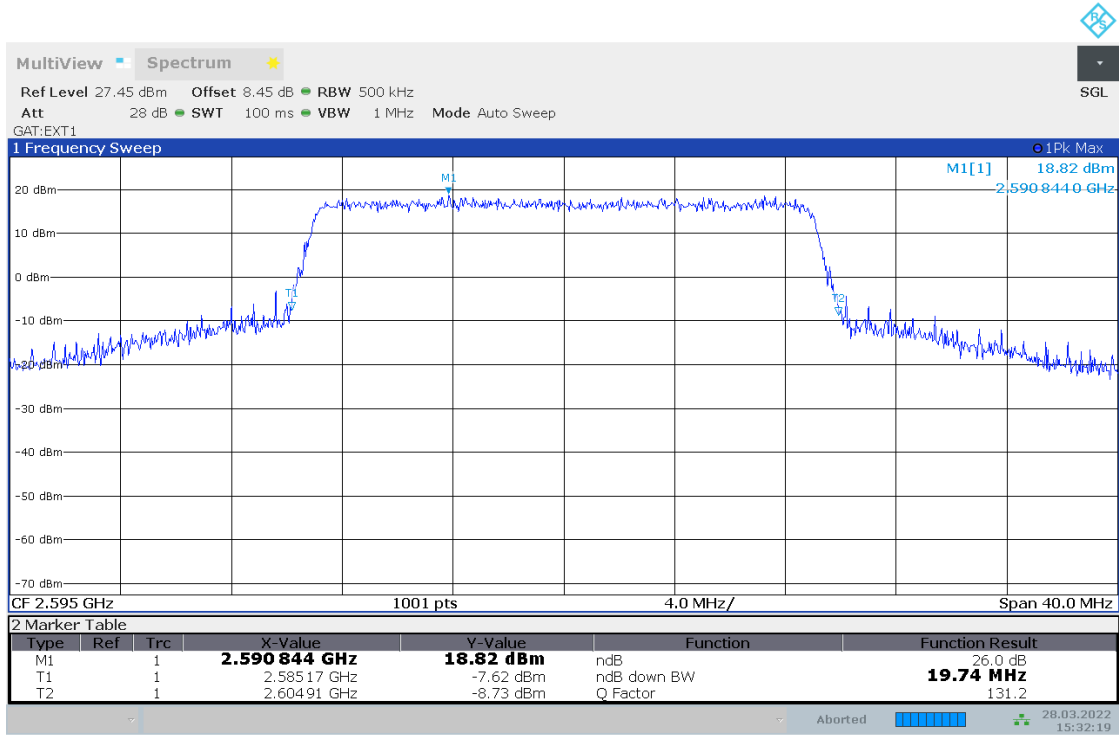


15:31:52 28.03.2022

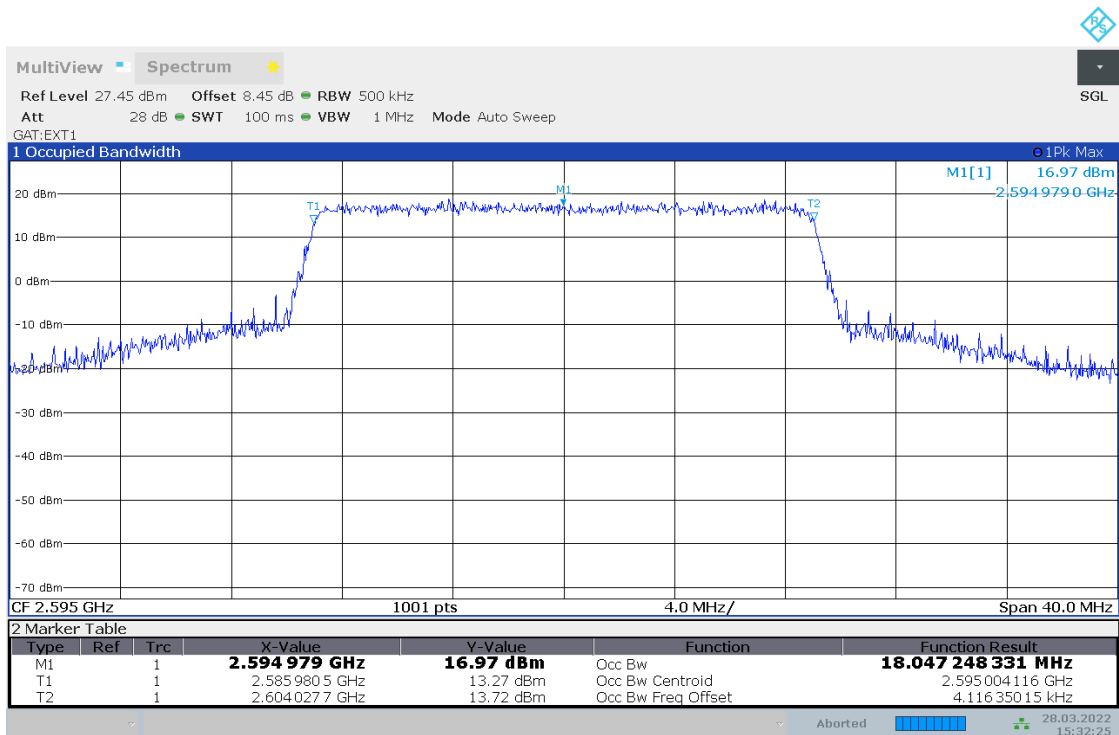


15:31:57 28.03.2022

## 4.2.35 TM3\_20MHZ\_MCH\_RB100#0

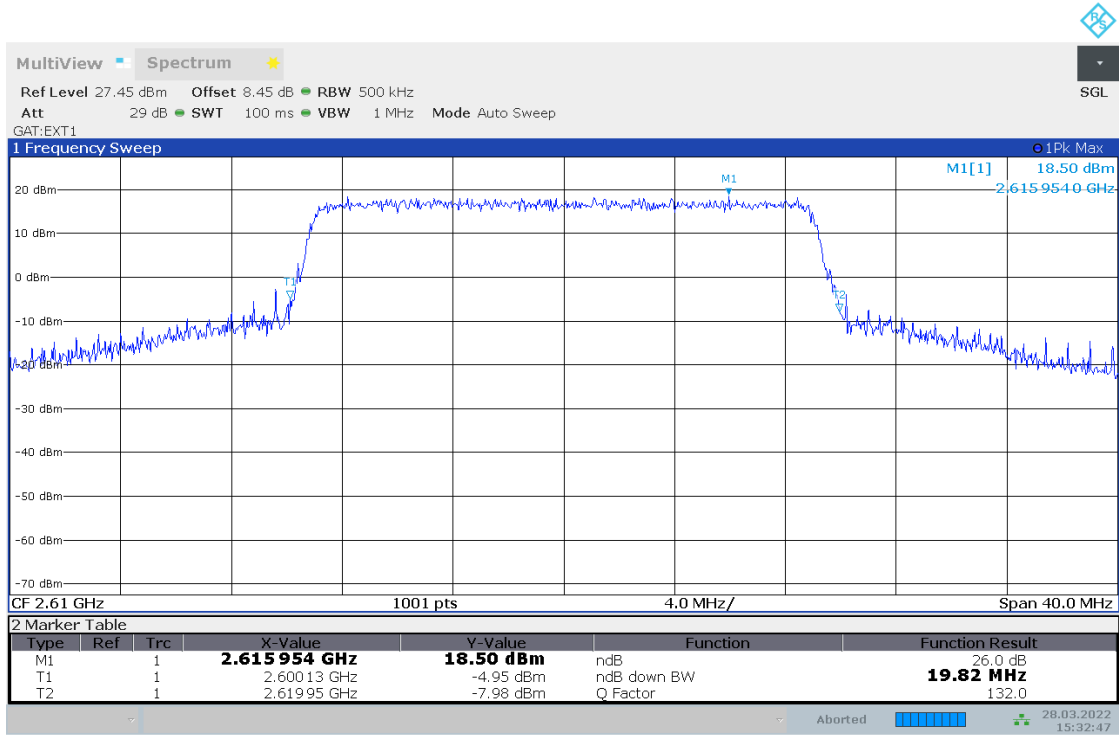


15:32:20 28.03.2022

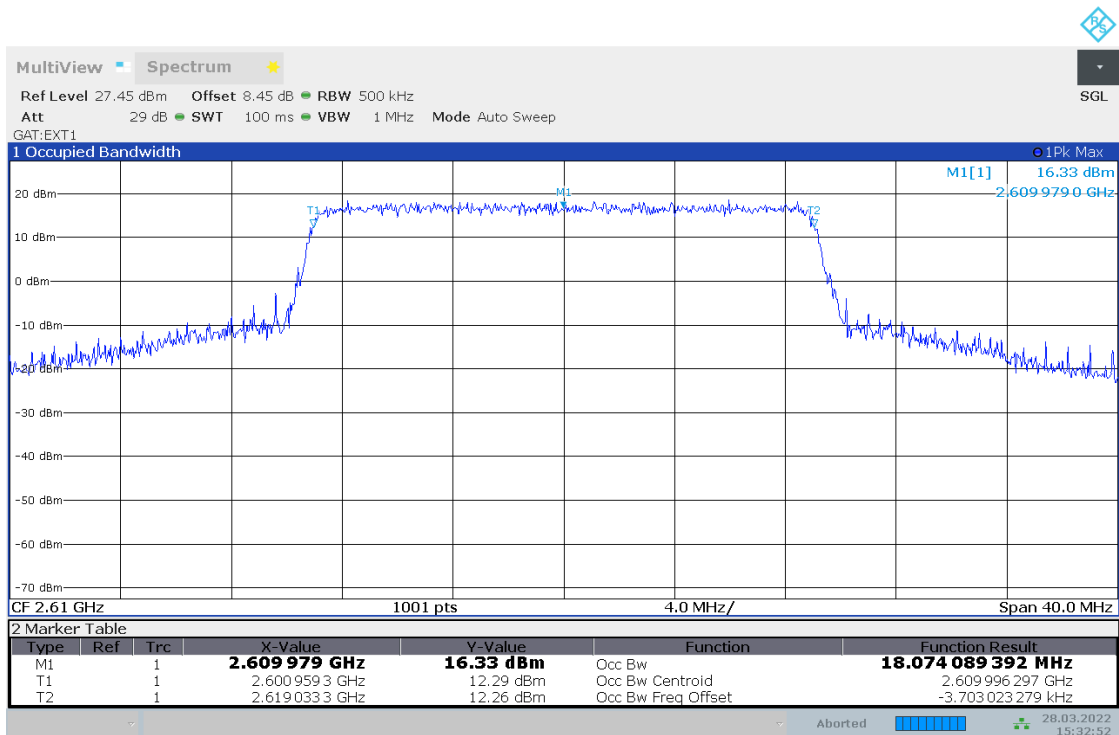


15:32:25 28.03.2022

## 4.2.36 TM3\_20MHZ\_HCH\_RB100#0



15:32:47 28.03.2022



15:32:53 28.03.2022

## 5. APPENDIX E - BAND EDGES COMPLIANCE

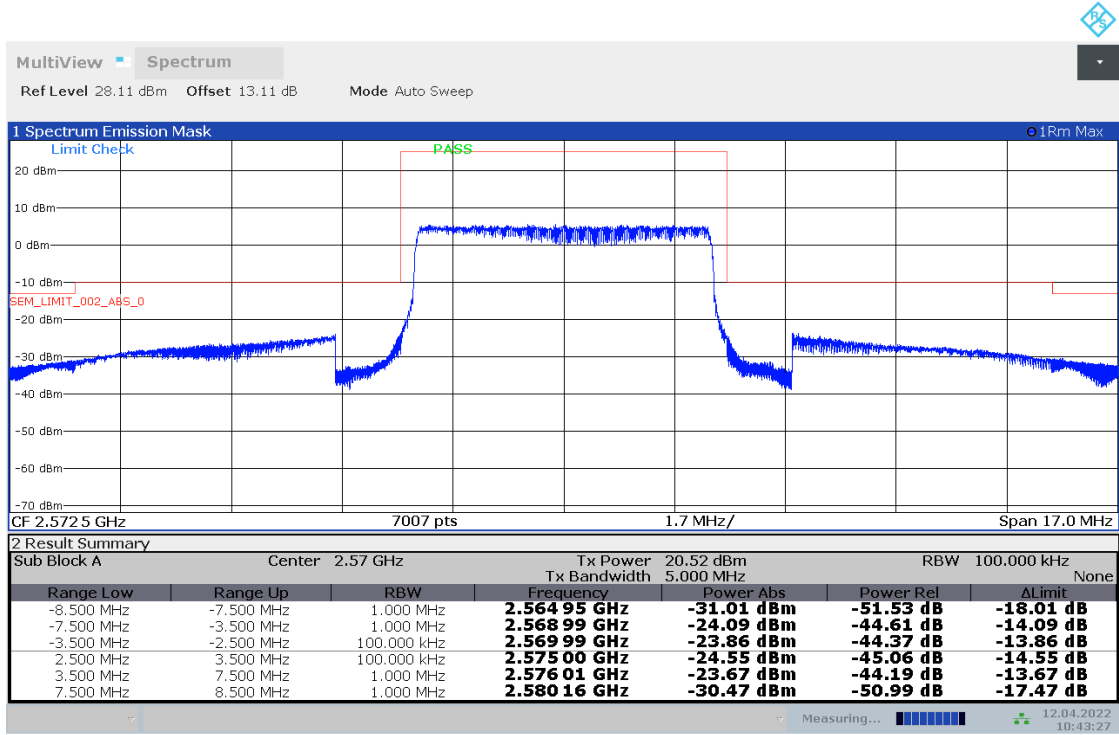
### 5.1 TEST RESULTS

Band Edges Compliance					
Test Mode	Test Bandwidth [MHz]	Test Channel	Test RB	Modulation	Verdict
TM1	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	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
TM3	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

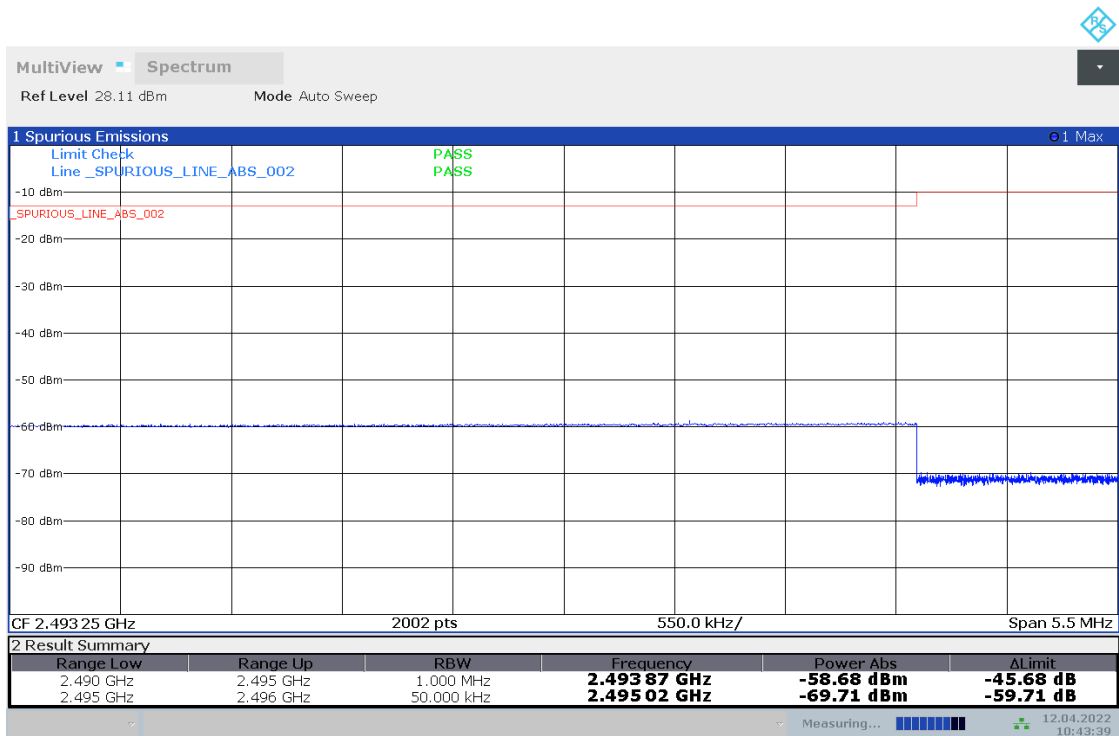


## 5.2 TEST PLOTS

### 5.2.1 TM1\_5MHZ\_LCH\_RB25#0

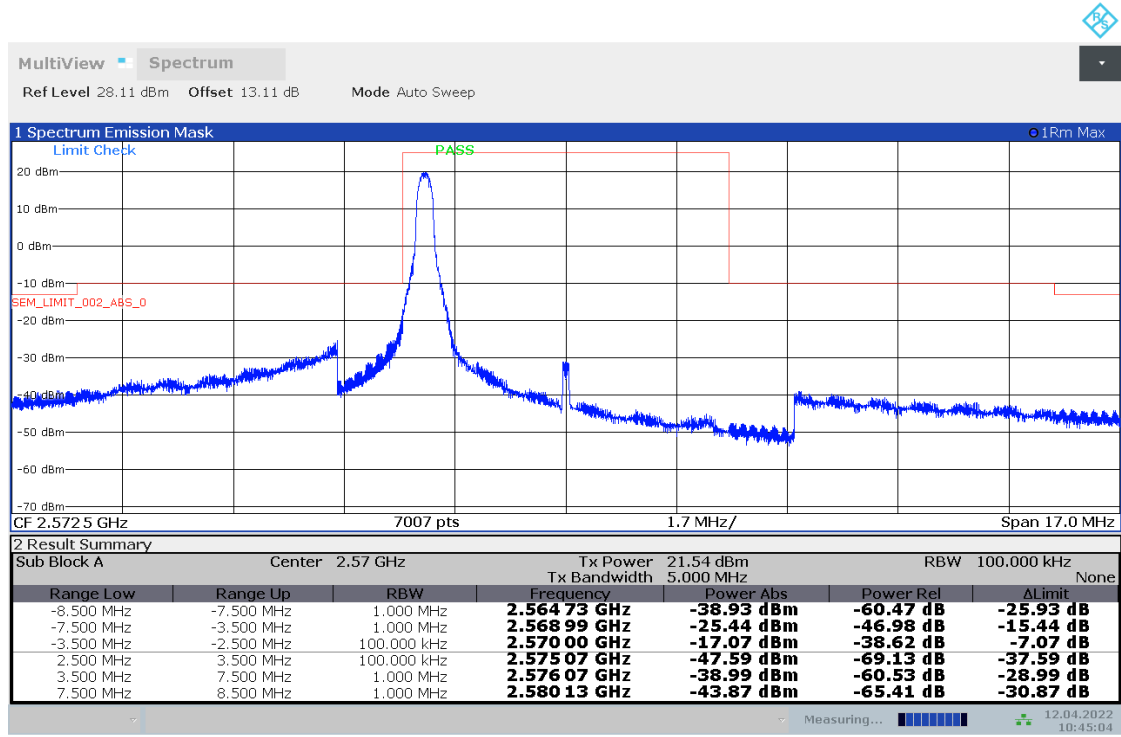


10:43:28 12.04.2022

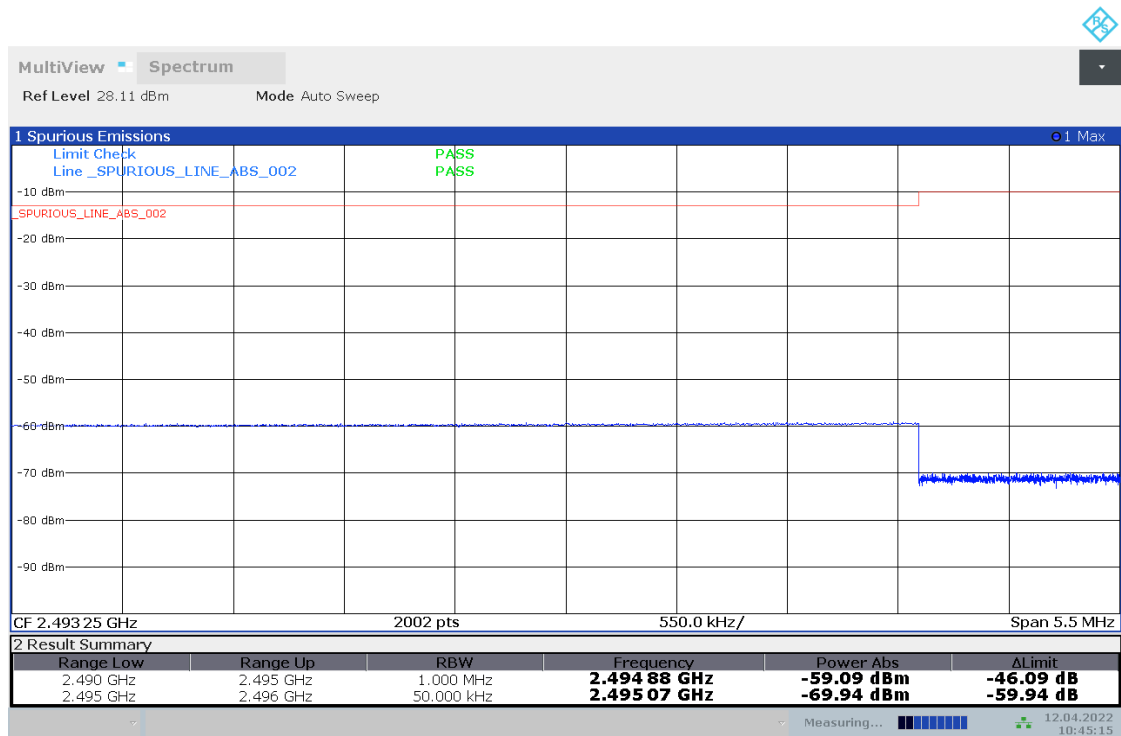


10:43:39 12.04.2022

## 5.2.2 TM1\_5MHZ\_LCH\_RB1#0

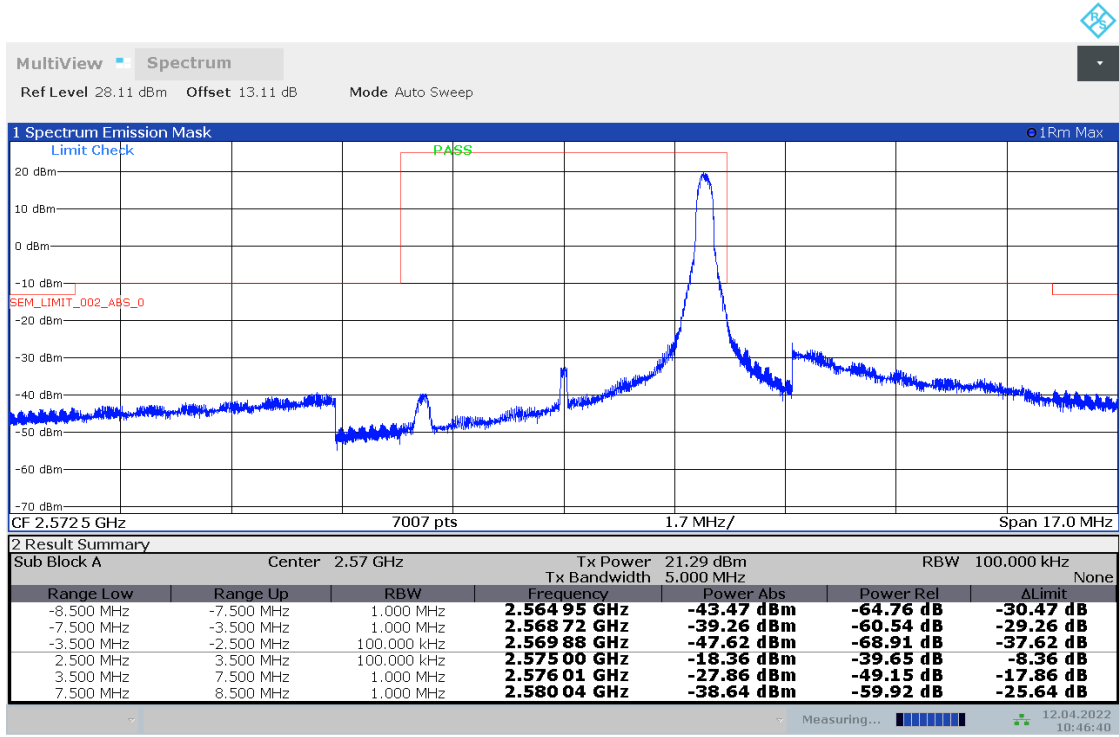


10:45:04 12.04.2022

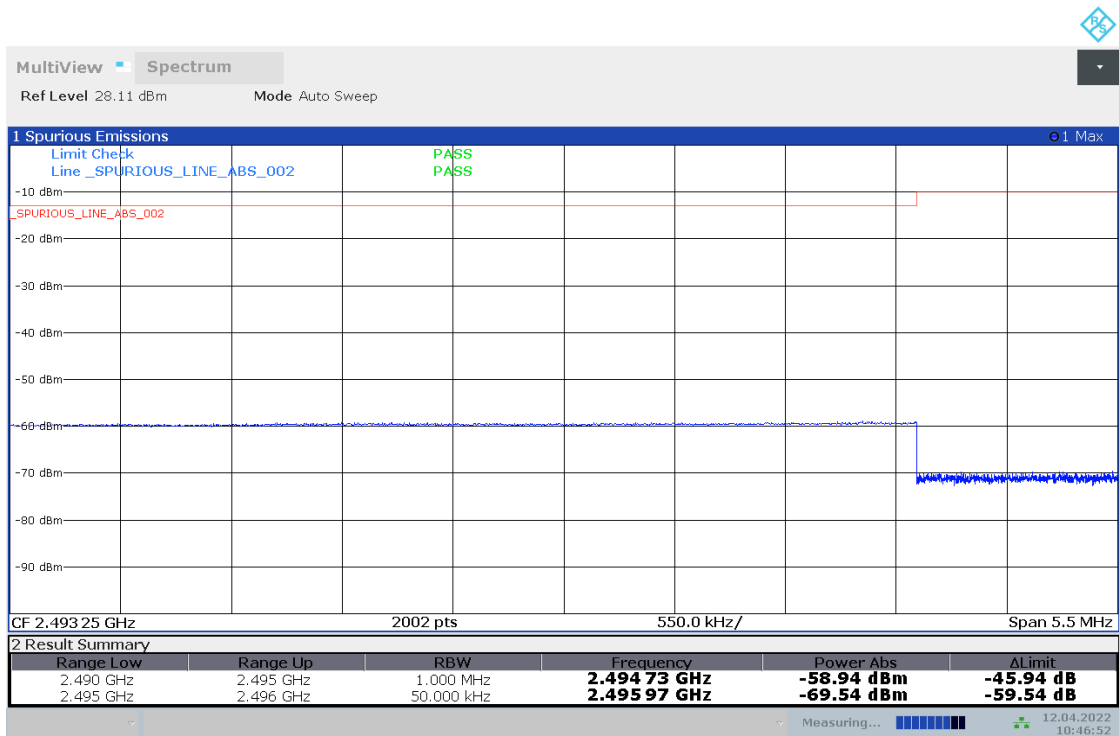


10:45:16 12.04.2022

## 5.2.3 TM1\_5MHZ\_LCH\_RB1#24

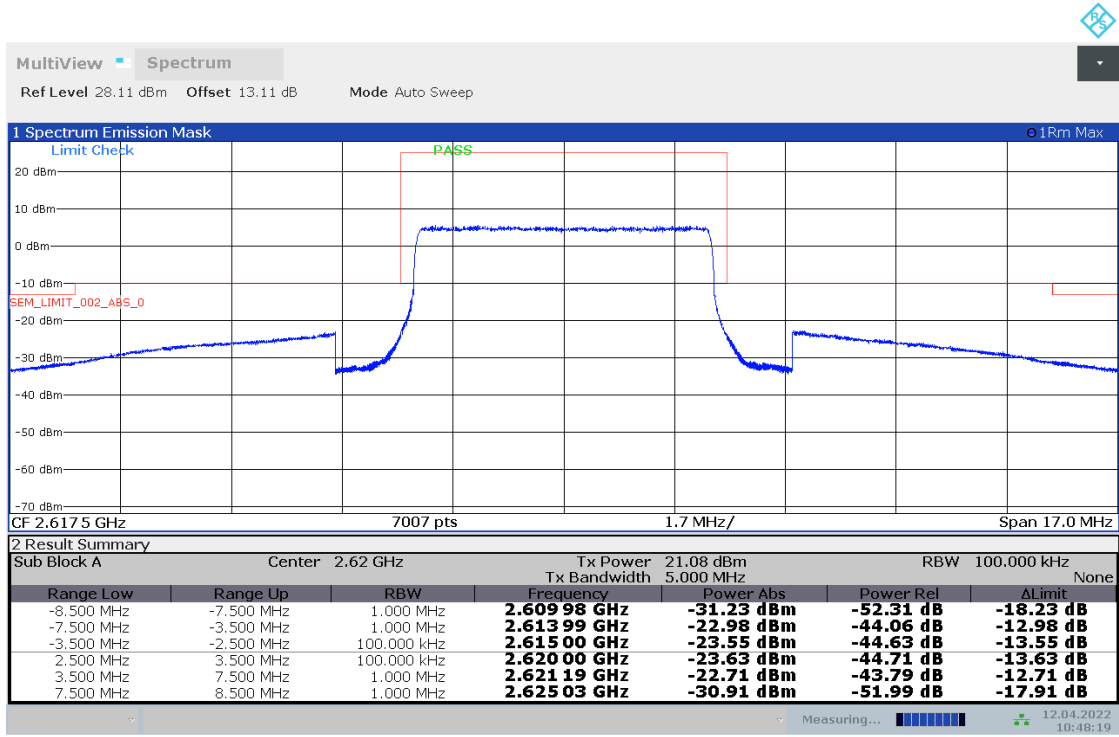


10:46:41 12.04.2022

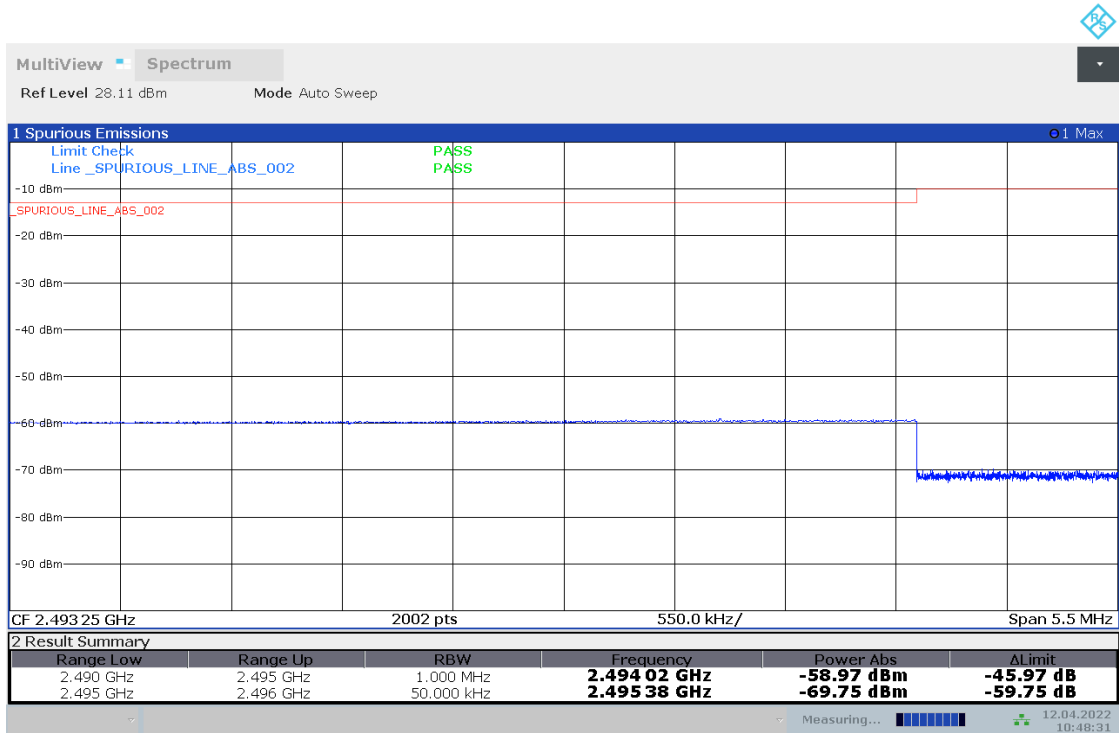


10:46:53 12.04.2022

## 5.2.4 TM1\_5MHZ\_HCH\_RB25#0

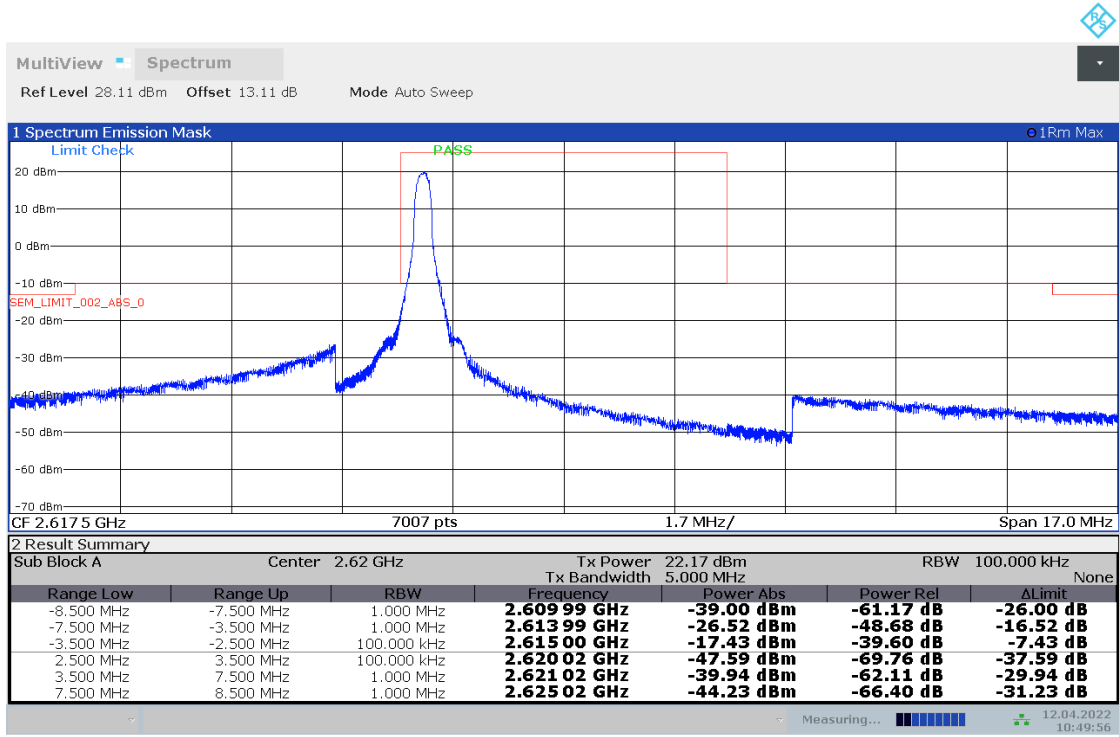


10:48:20 12.04.2022

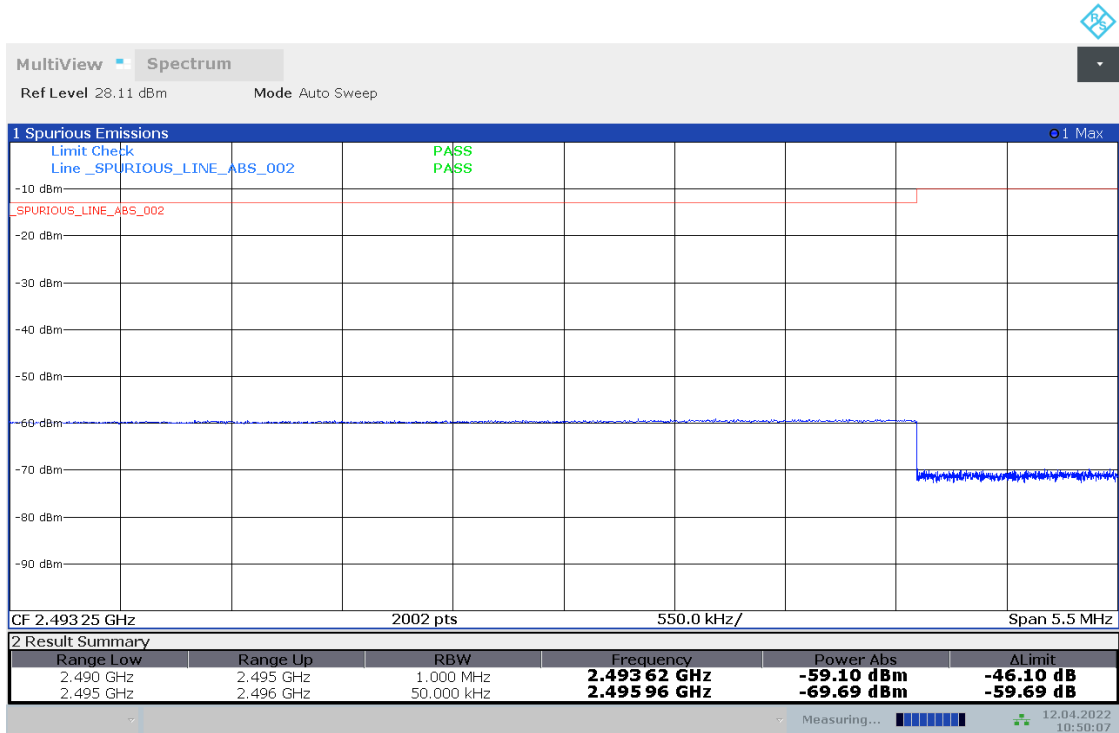


10:48:31 12.04.2022

## 5.2.5 TM1\_5MHZ\_HCH\_RB1#0

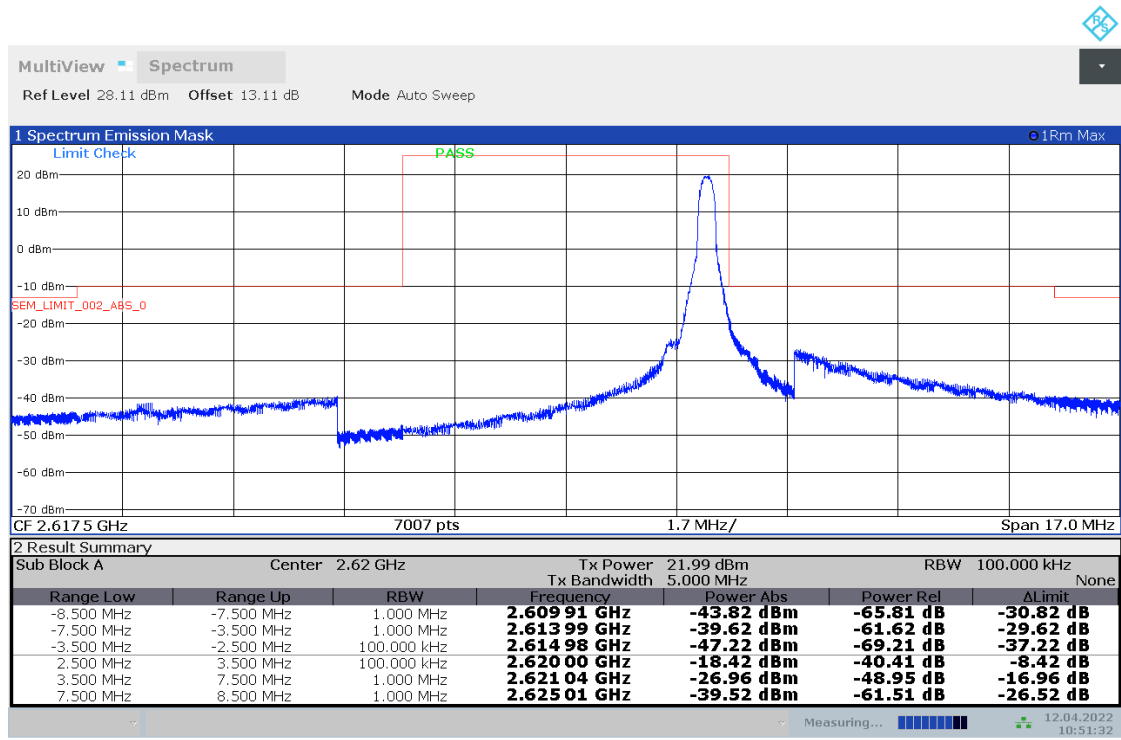


10:49:56 12.04.2022

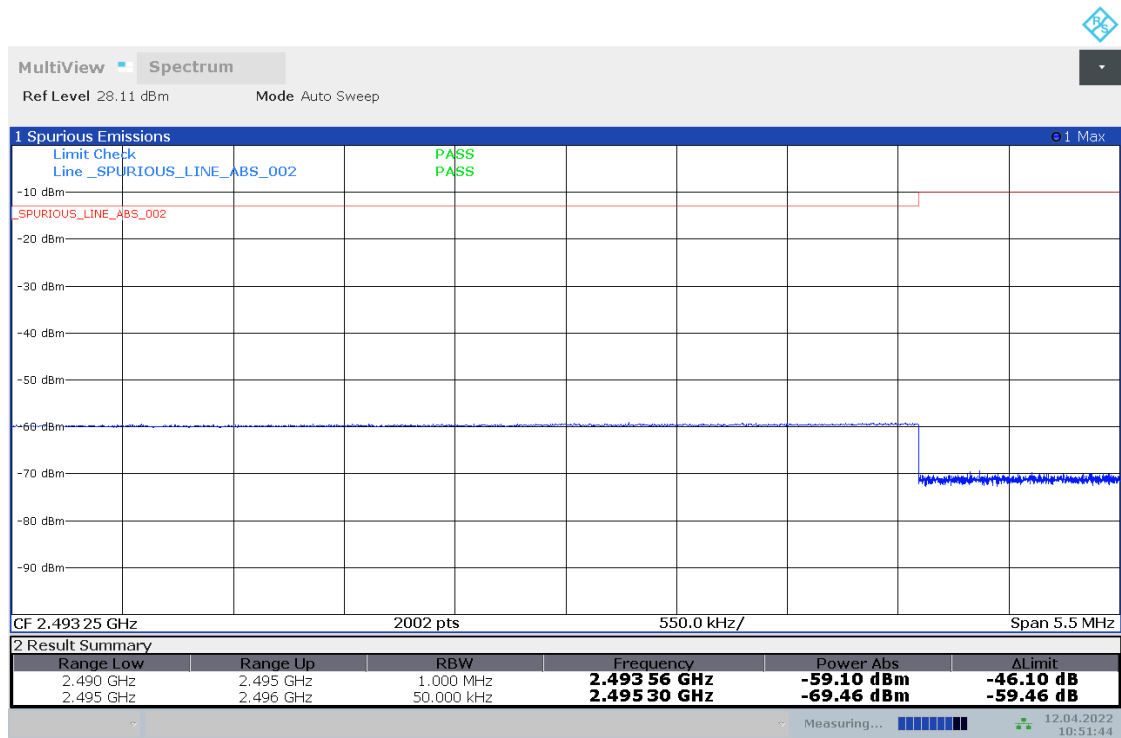


10:50:08 12.04.2022

## 5.2.6 TM1\_5MHZ\_HCH\_RB1#24

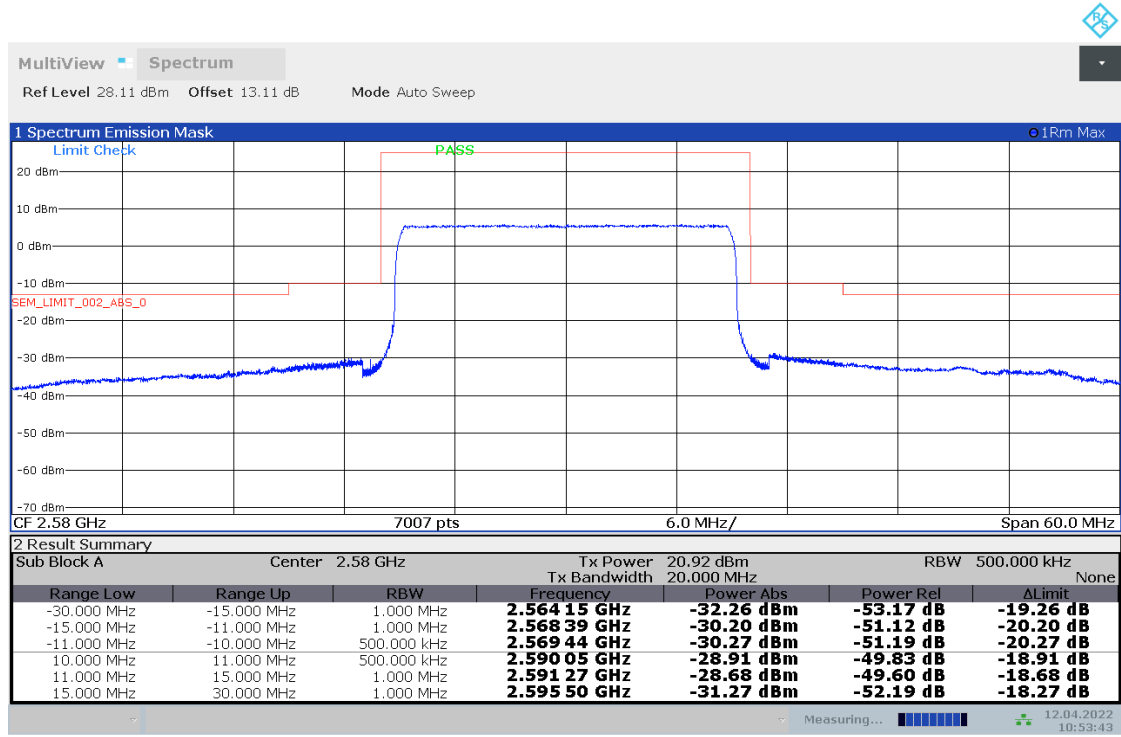


10:51:33 12.04.2022

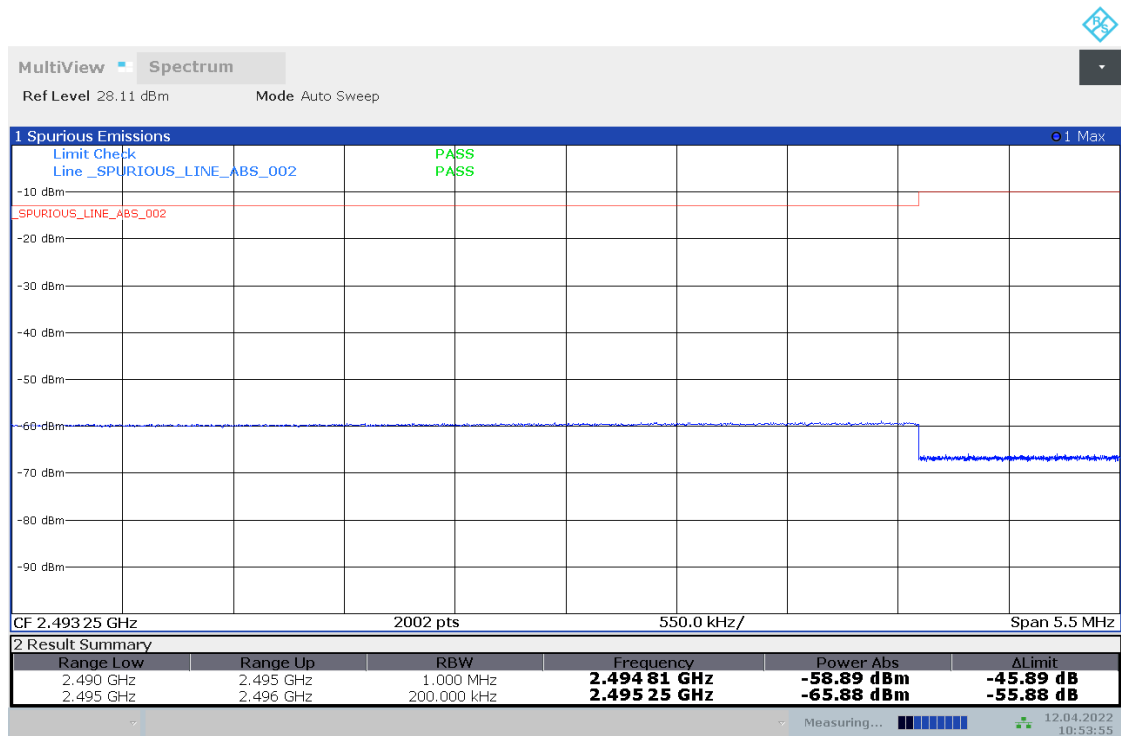


10:51:45 12.04.2022

## 5.2.7 TM1\_20MHZ\_LCH\_RB100#0

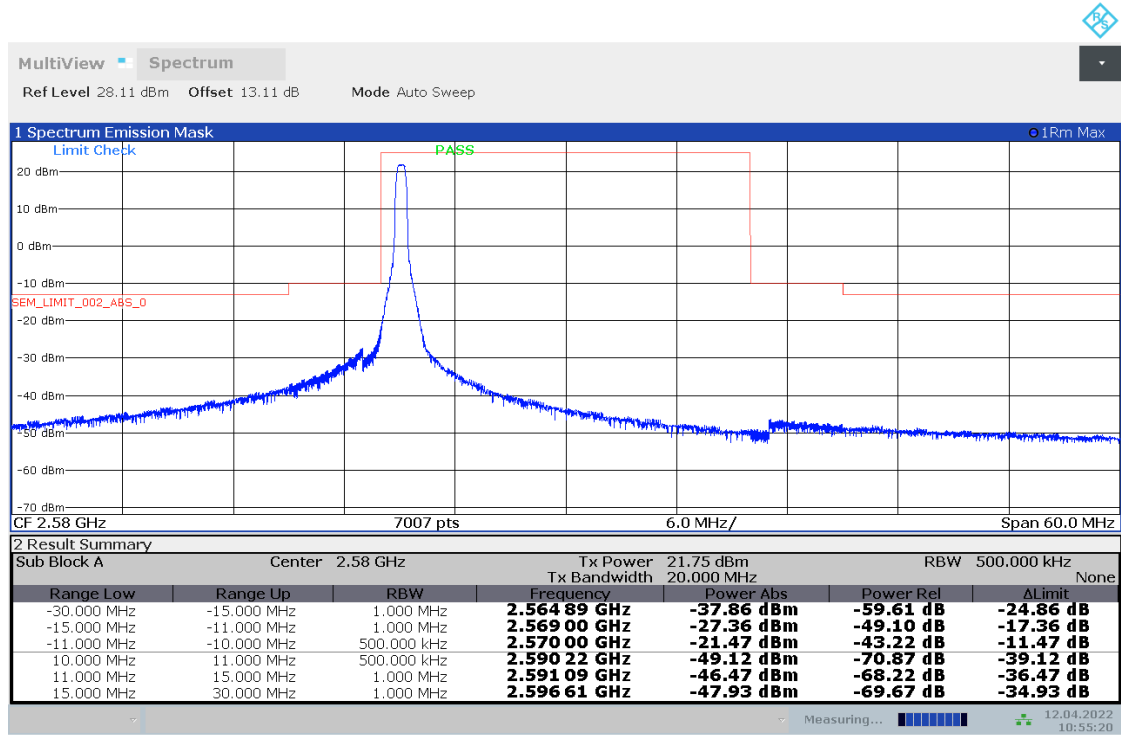


10:53:44 12.04.2022

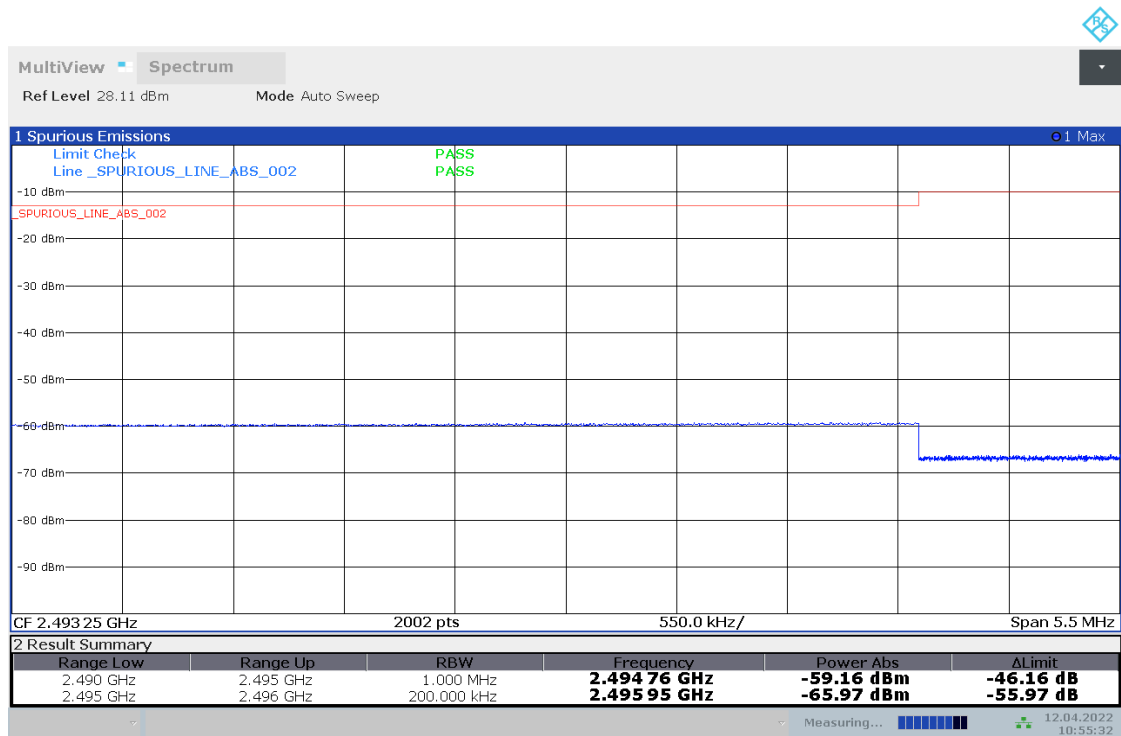


10:53:56 12.04.2022

## 5.2.8 TM1\_20MHZ\_LCH\_RB1#0



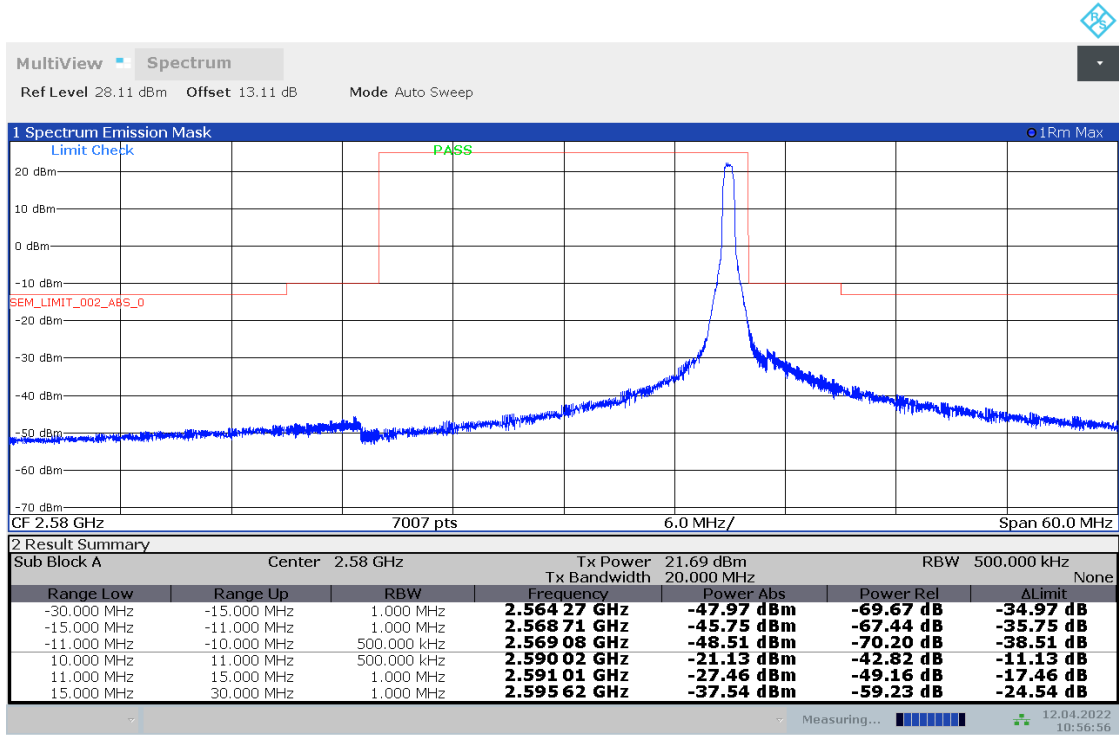
10:55:21 12.04.2022



10:55:32 12.04.2022



## 5.2.9 TM1\_20MHZ\_LCH\_RB1#99

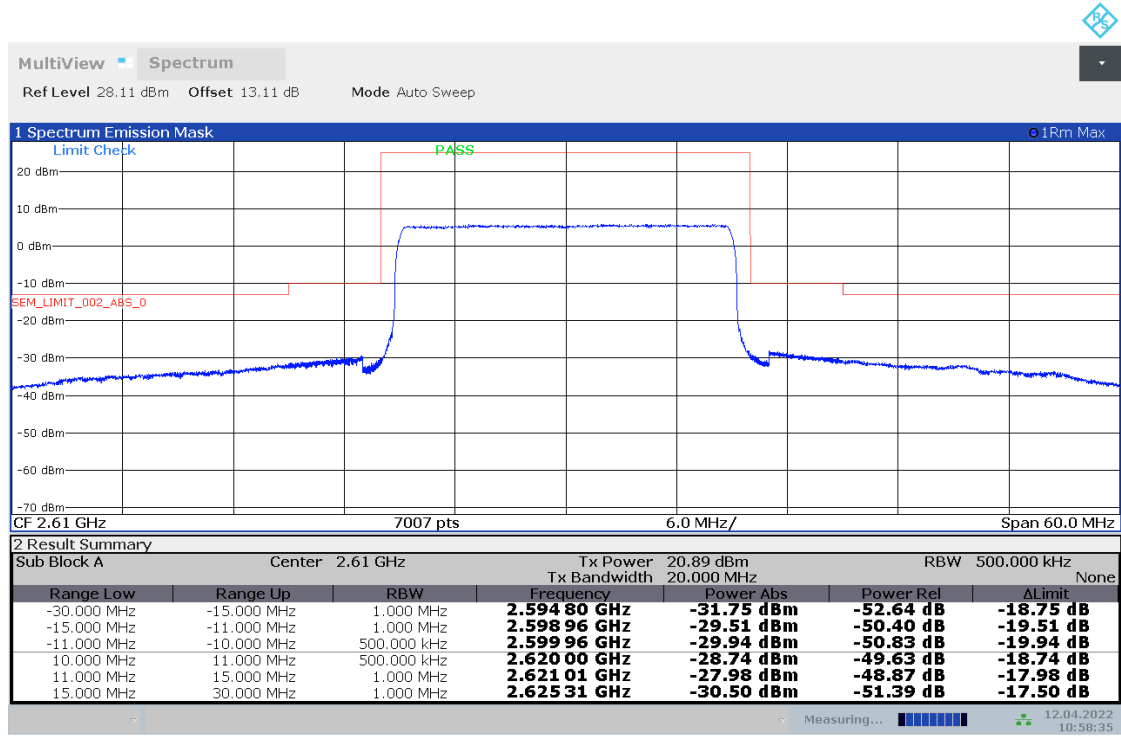


10:56:57 12.04.2022

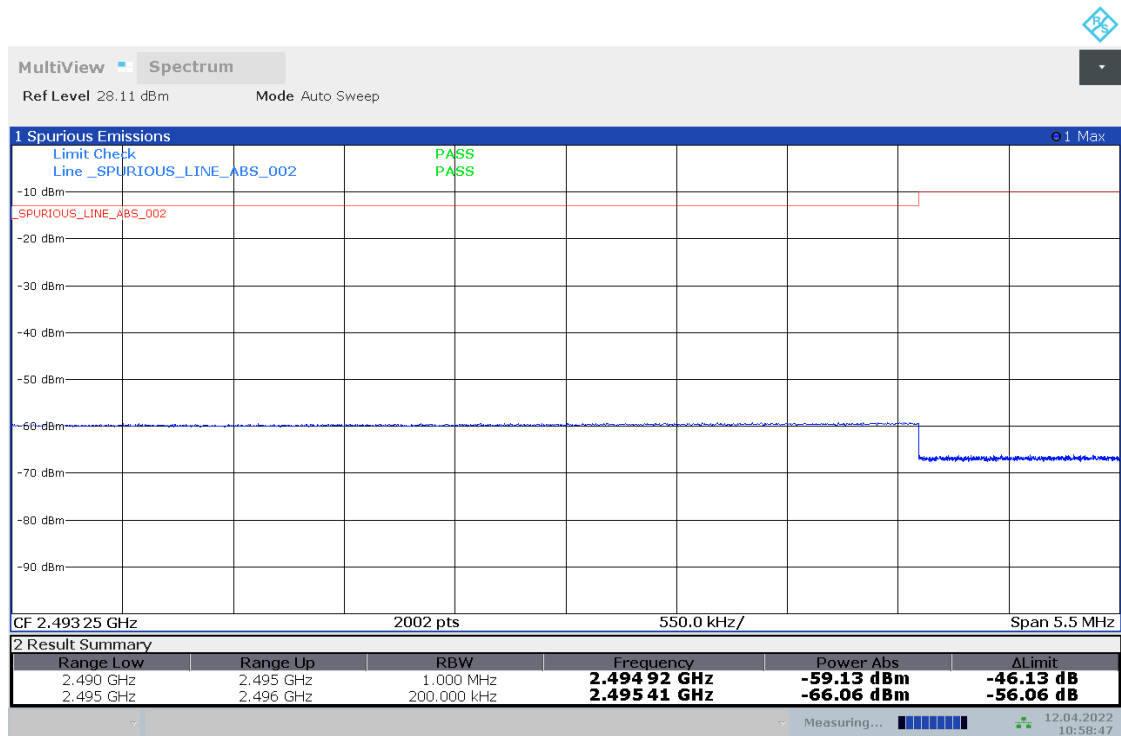


10:57:09 12.04.2022

## 5.2.10 TM1\_20MHZ\_HCH\_RB100#0

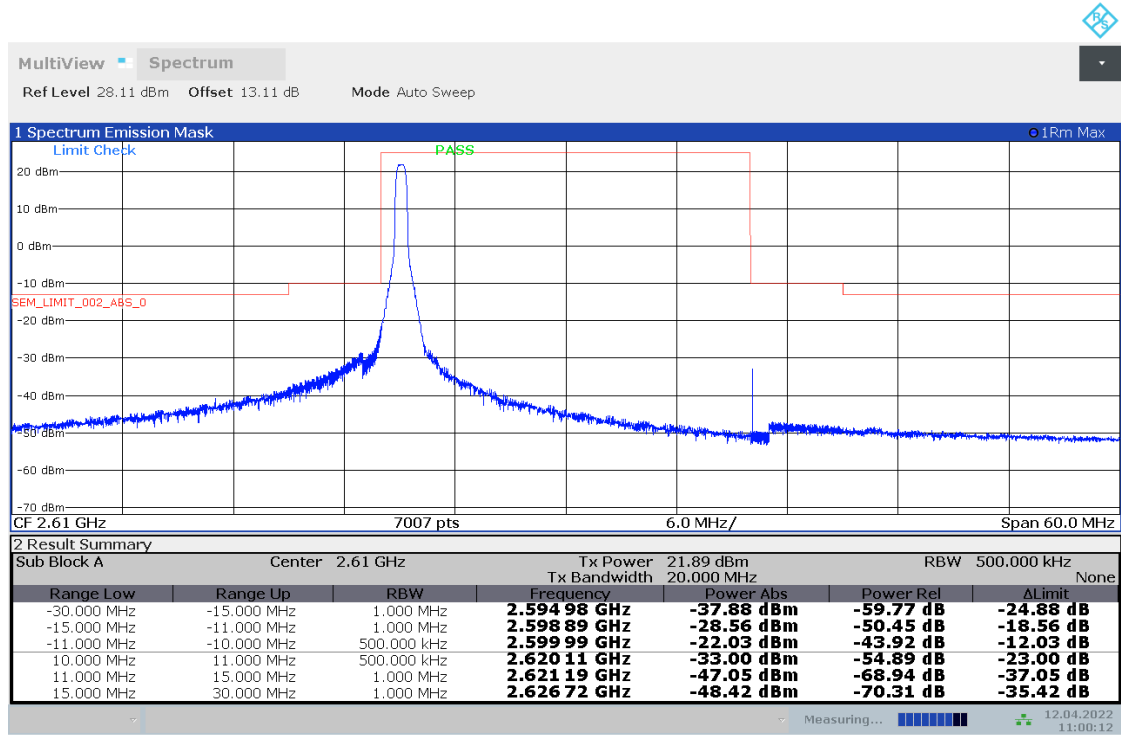


10:58:36 12.04.2022

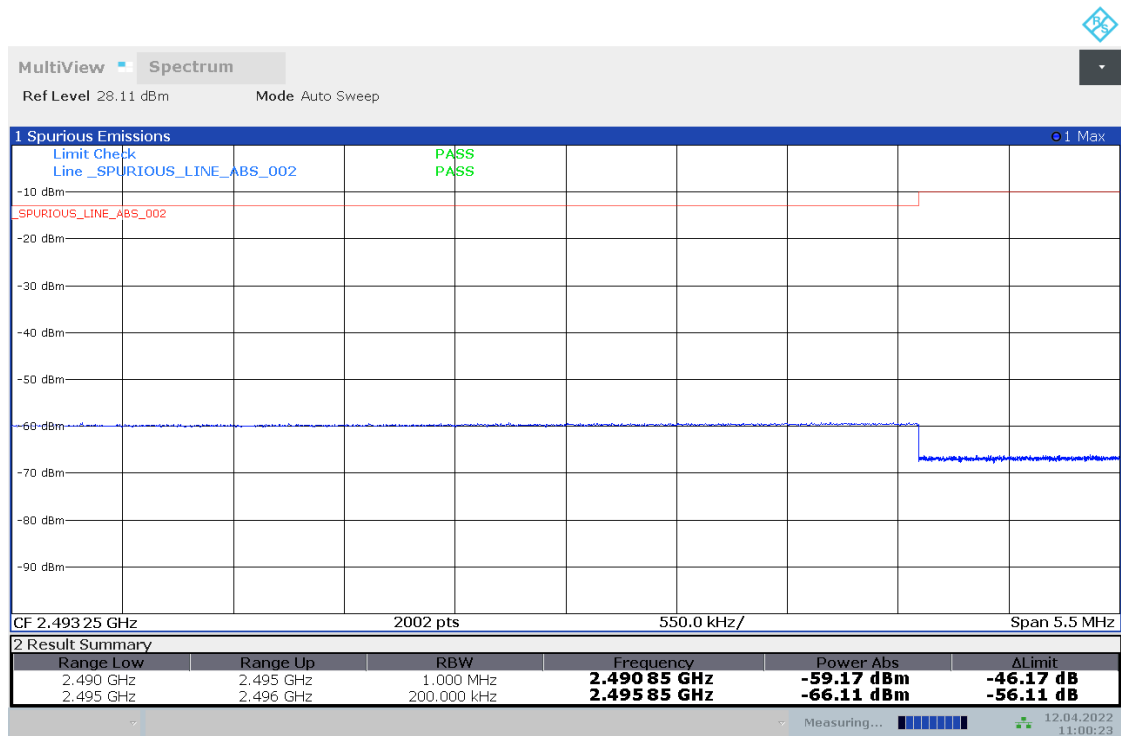


10:58:48 12.04.2022

## 5.2.11 TM1\_20MHZ\_HCH\_RB1#0

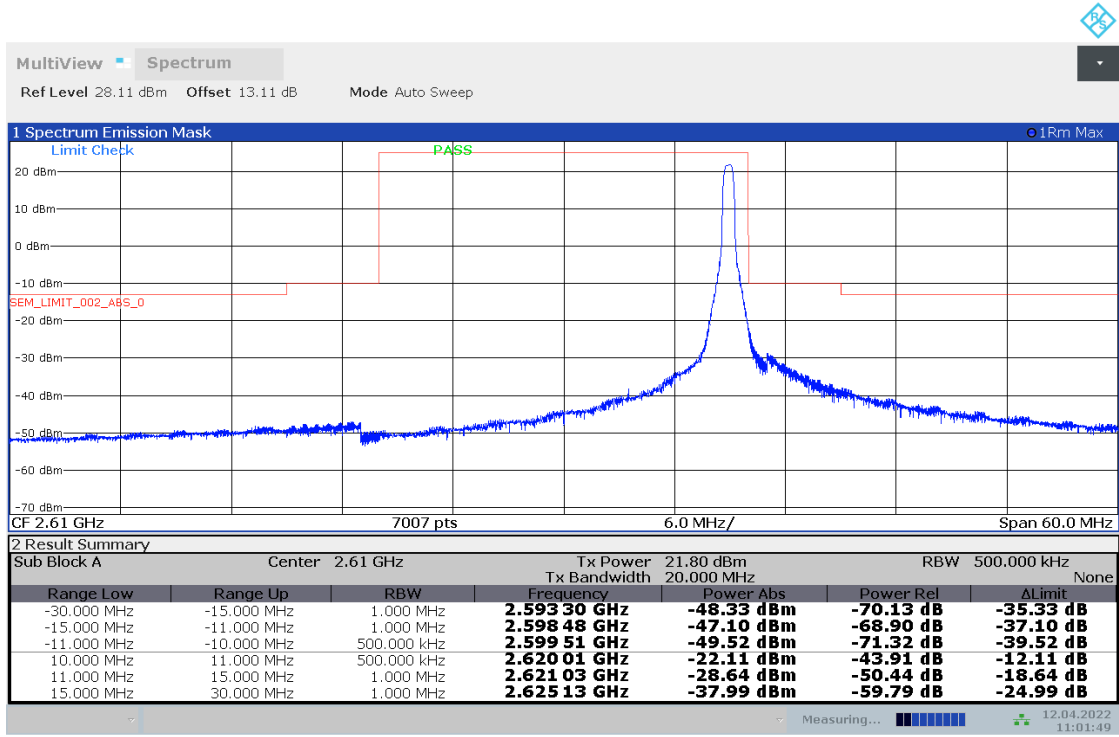


11:00:13 12.04.2022

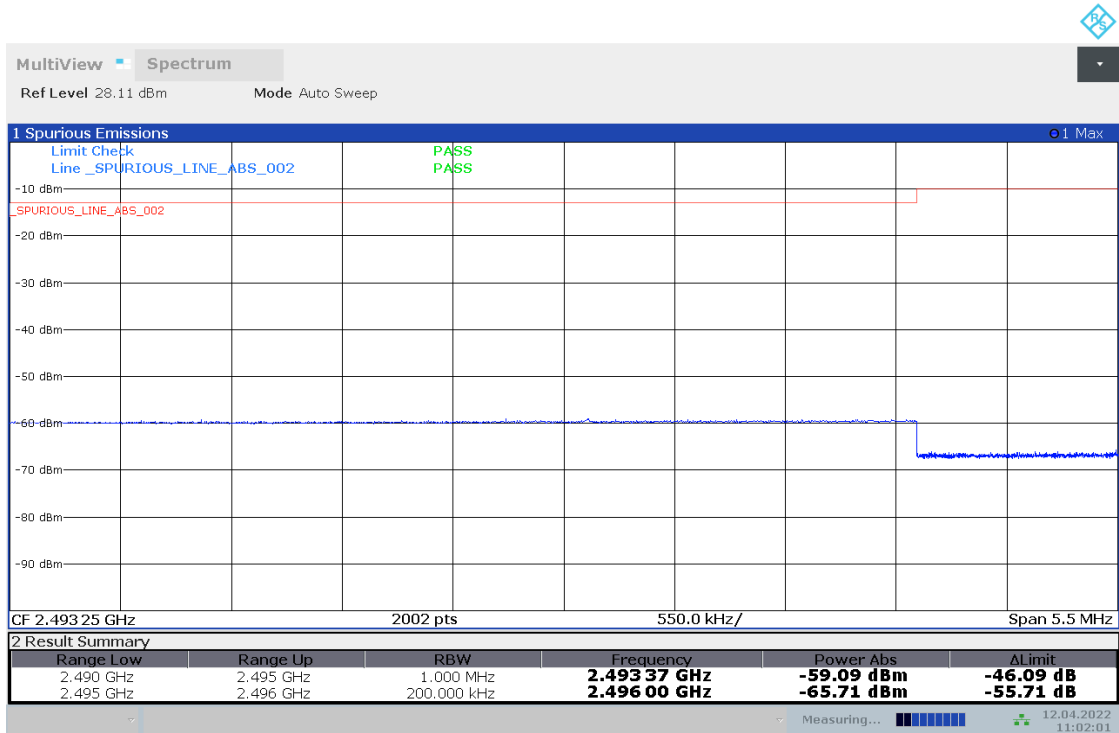


11:00:24 12.04.2022

## 5.2.12 TM1\_20MHZ\_HCH\_RB1#99

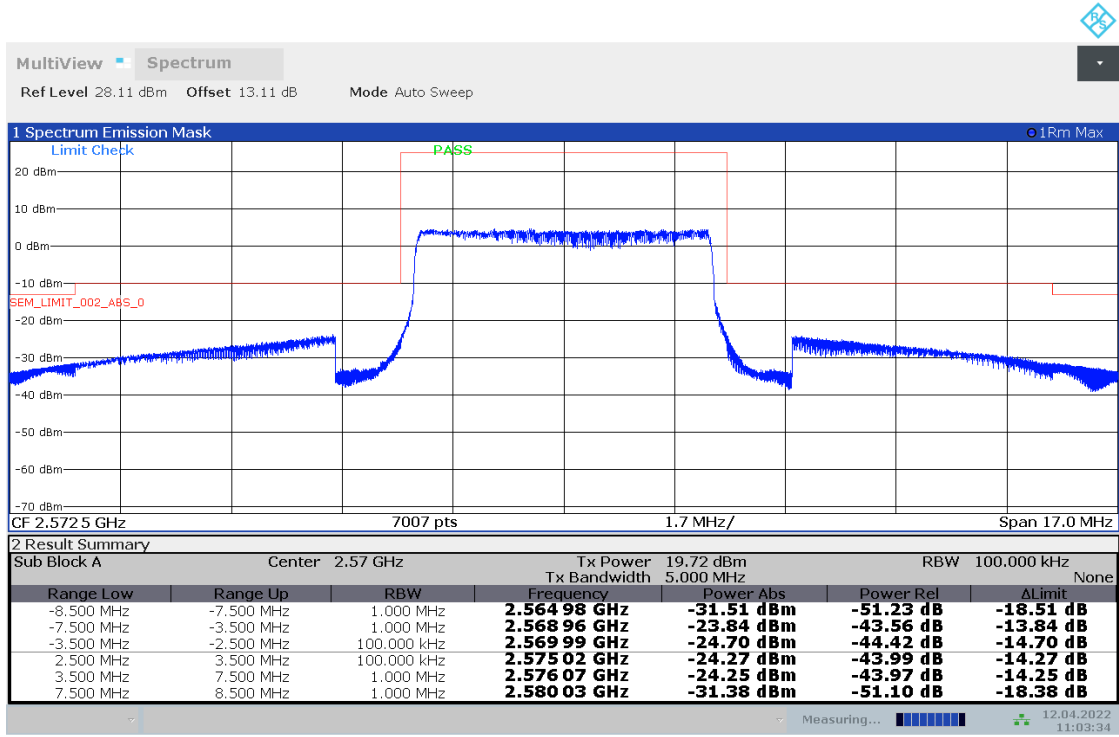


11:01:49 12.04.2022

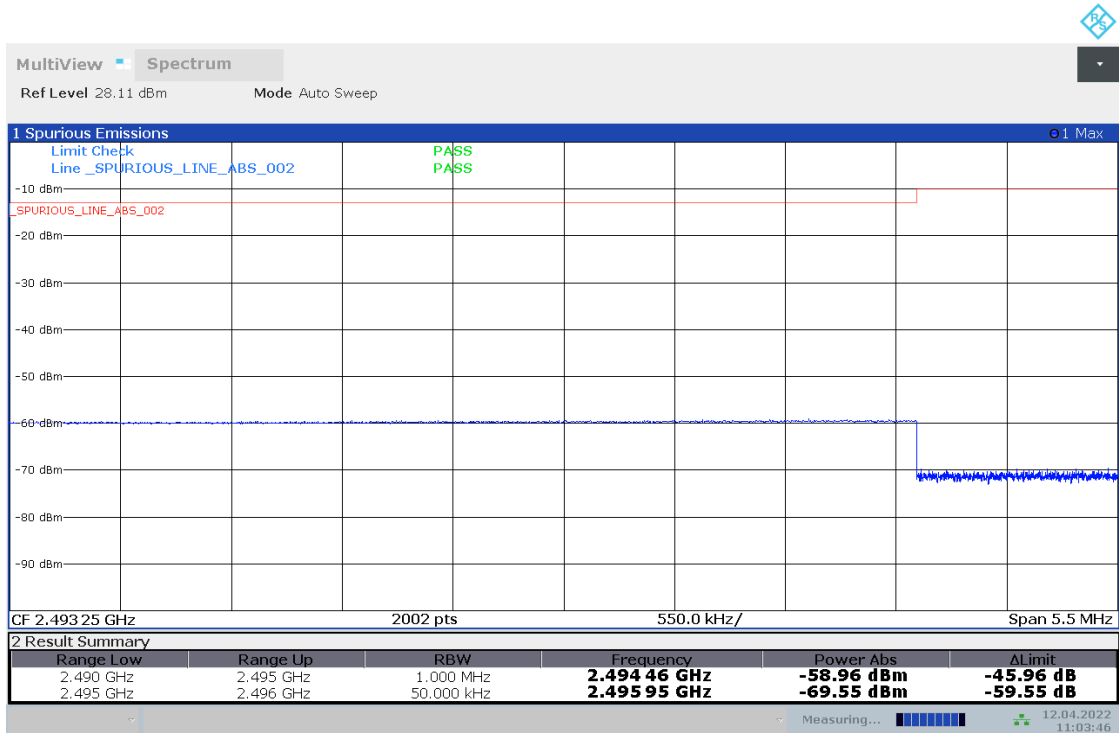


11:02:01 12.04.2022

## 5.2.13 TM2\_5MHZ\_LCH\_RB25#0

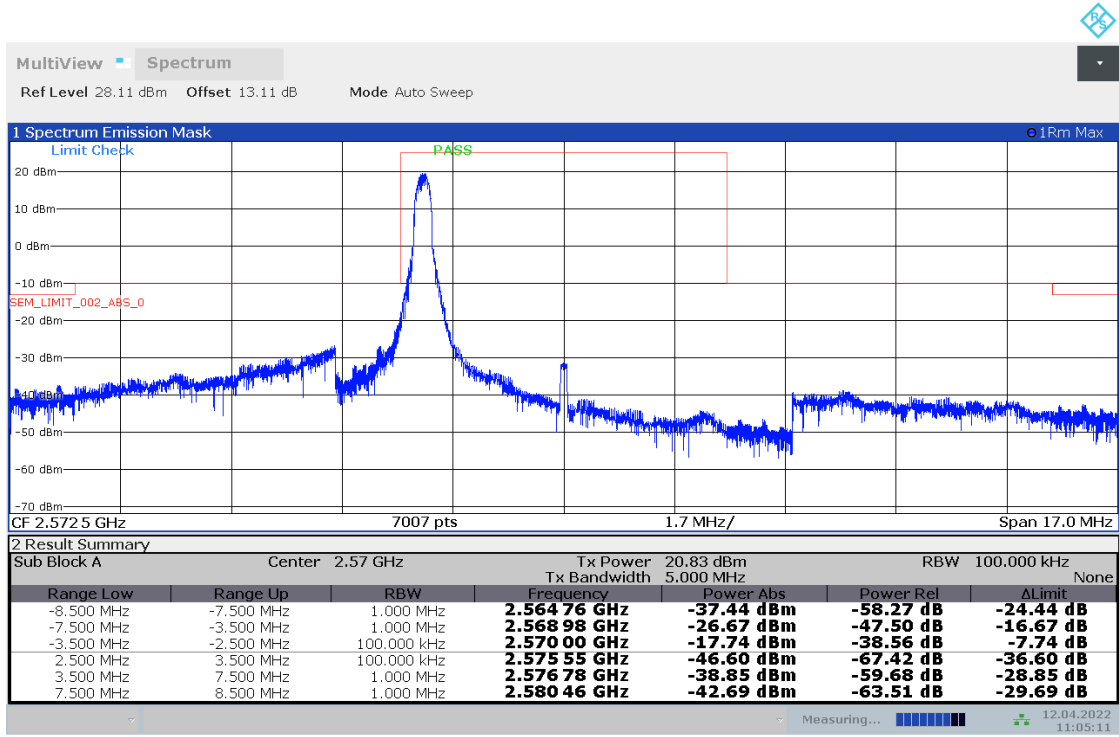


11:03:35 12.04.2022

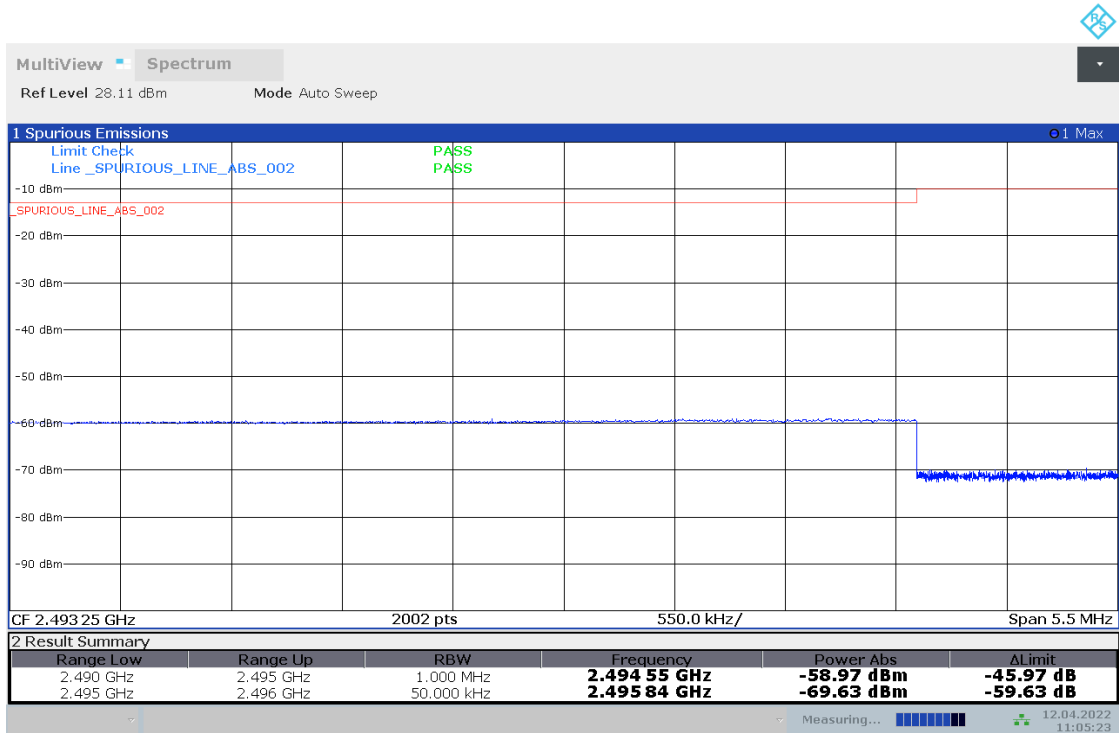


11:03:46 12.04.2022

## 5.2.14 TM2\_5MHZ\_LCH\_RB1#0

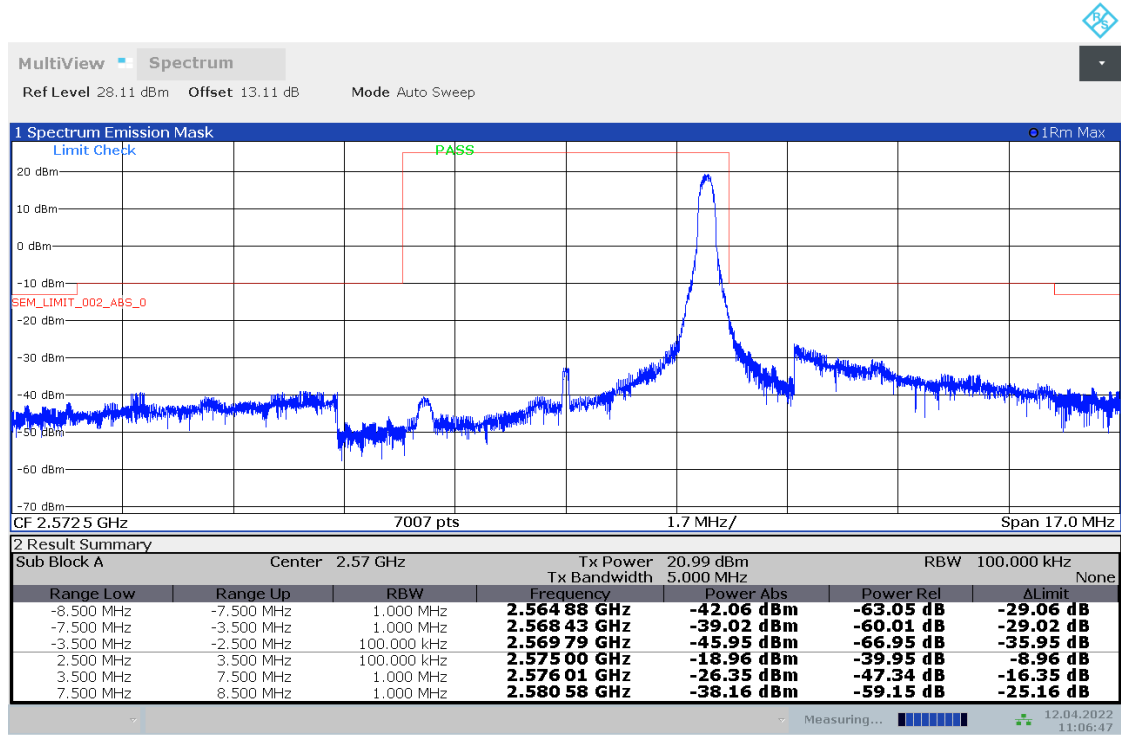


11:05:11 12.04.2022

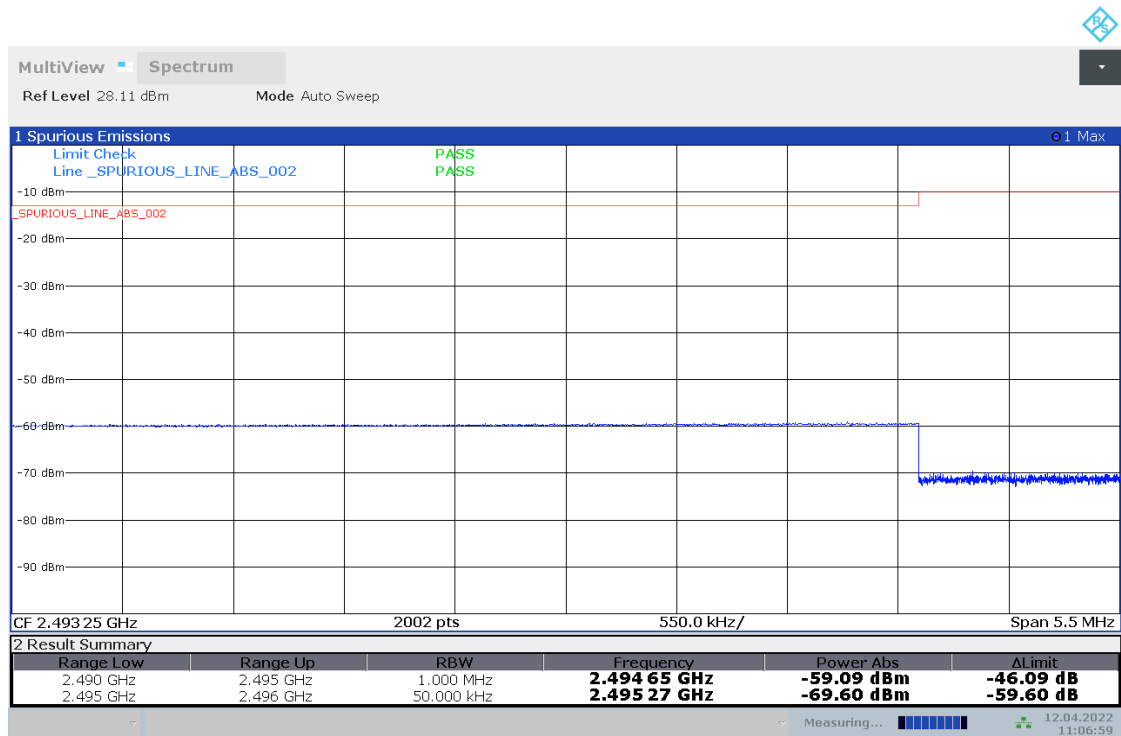


11:05:23 12.04.2022

## 5.2.15 TM2\_5MHZ\_LCH\_RB1#24

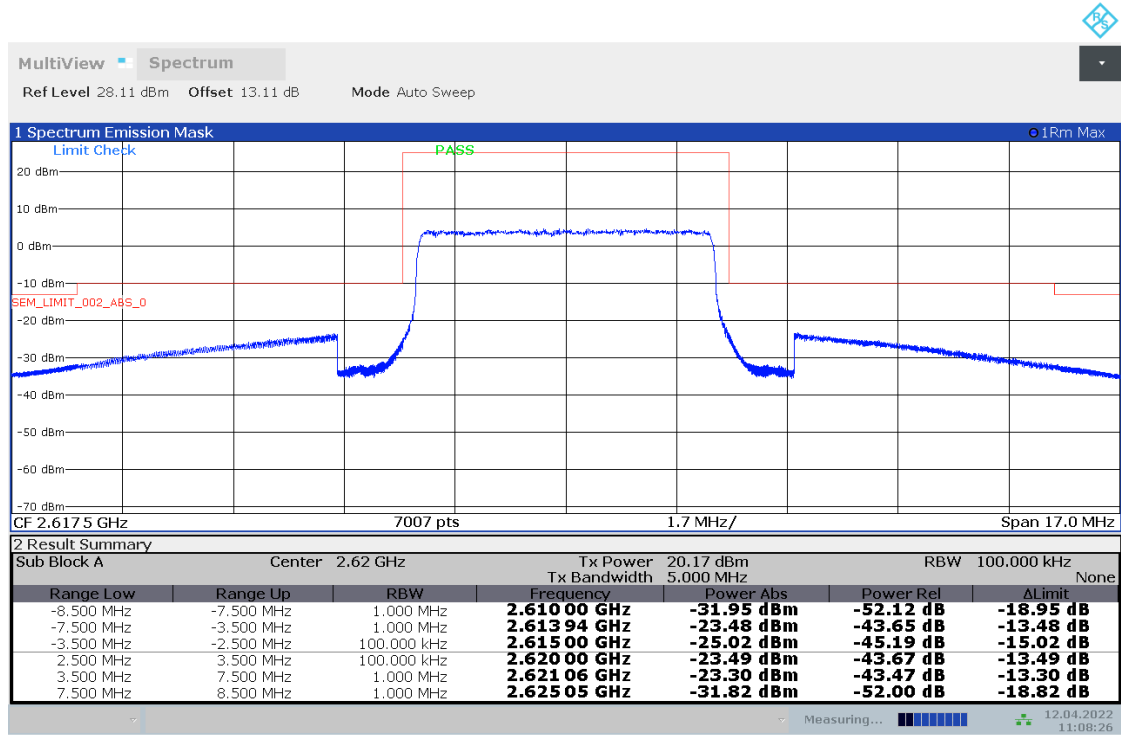


11:06:48 12.04.2022

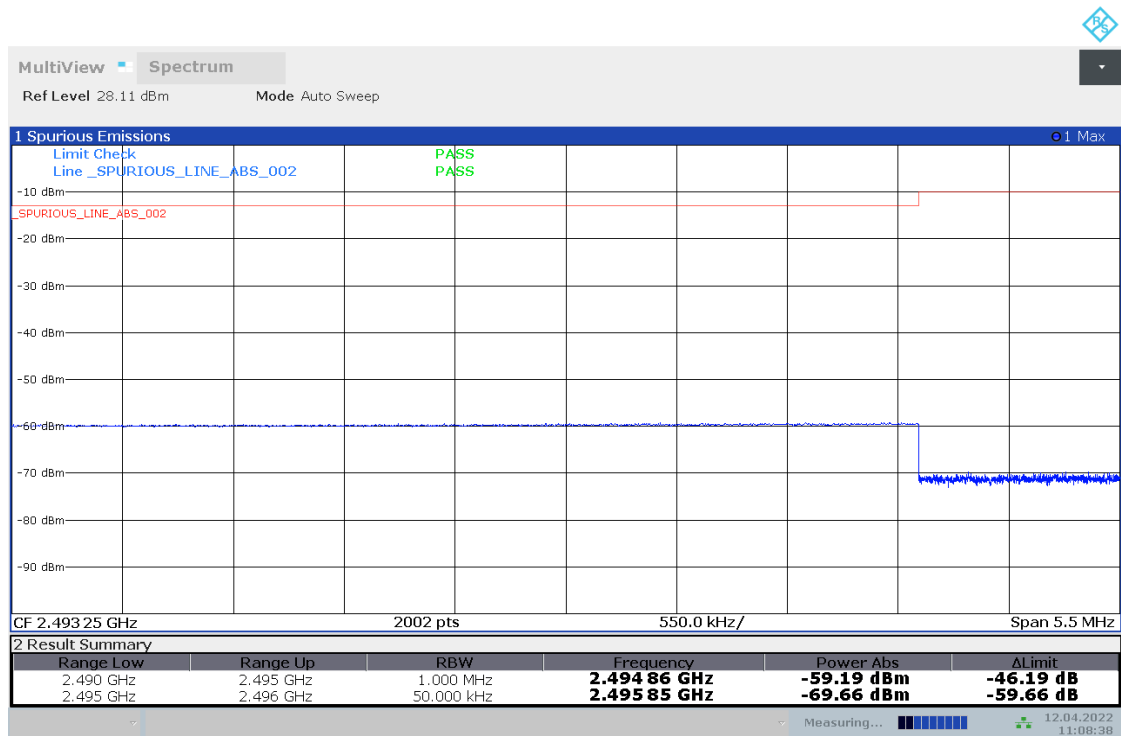


11:06:59 12.04.2022

## 5.2.16 TM2\_5MHZ\_HCH\_RB25#0



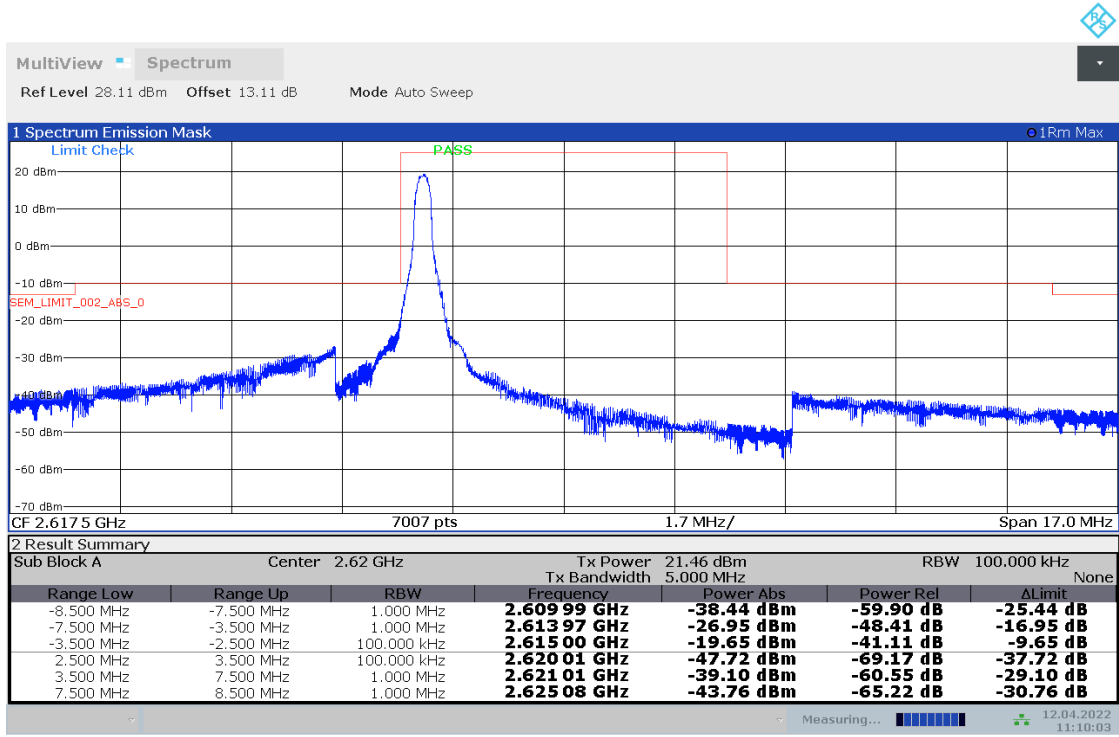
11:08:27 12.04.2022



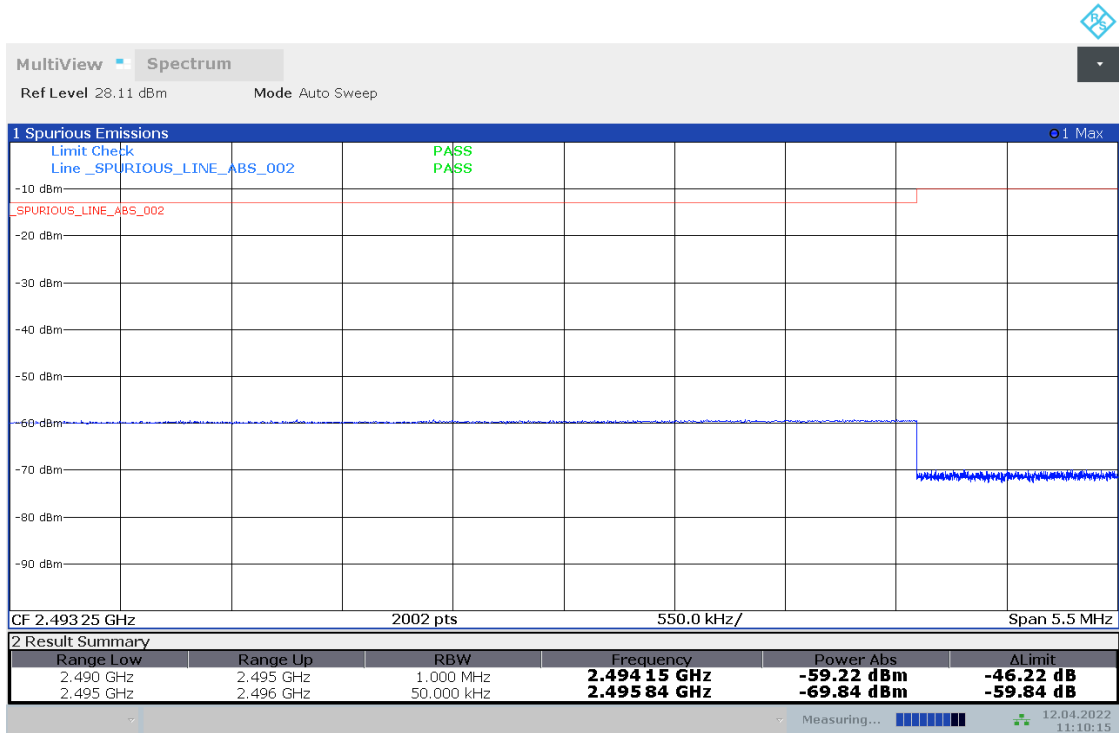
11:08:38 12.04.2022



## 5.2.17 TM2\_5MHZ\_HCH\_RB1#0

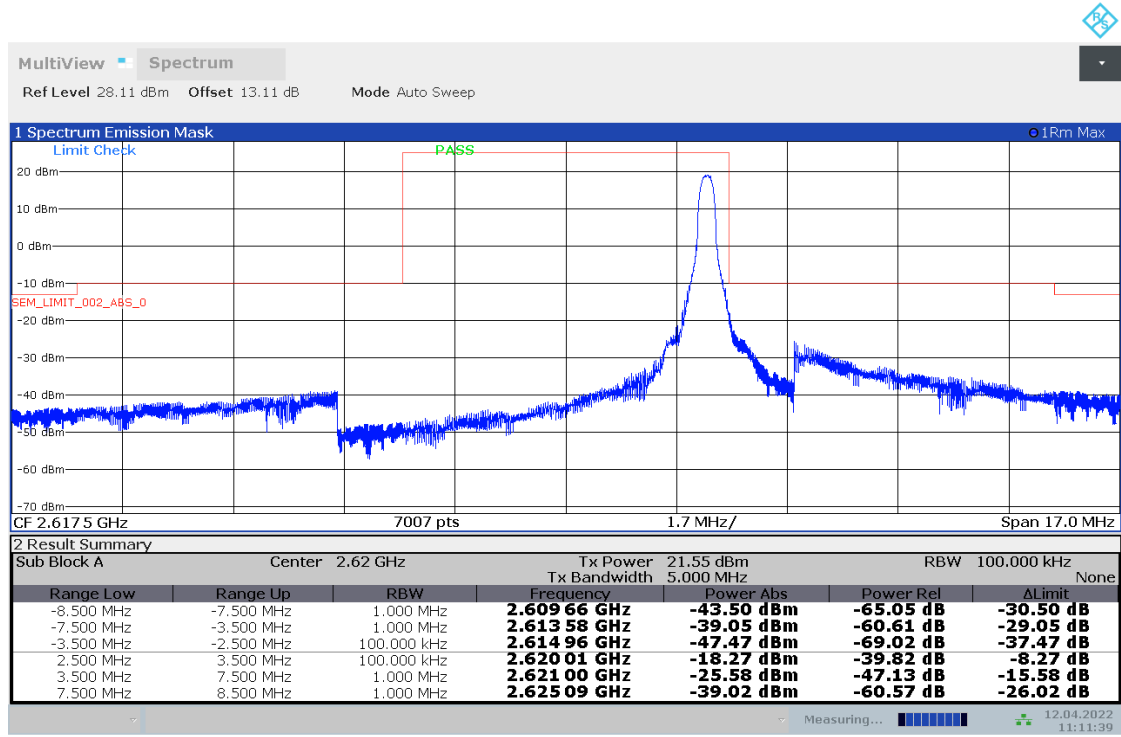


11:10:03 12.04.2022

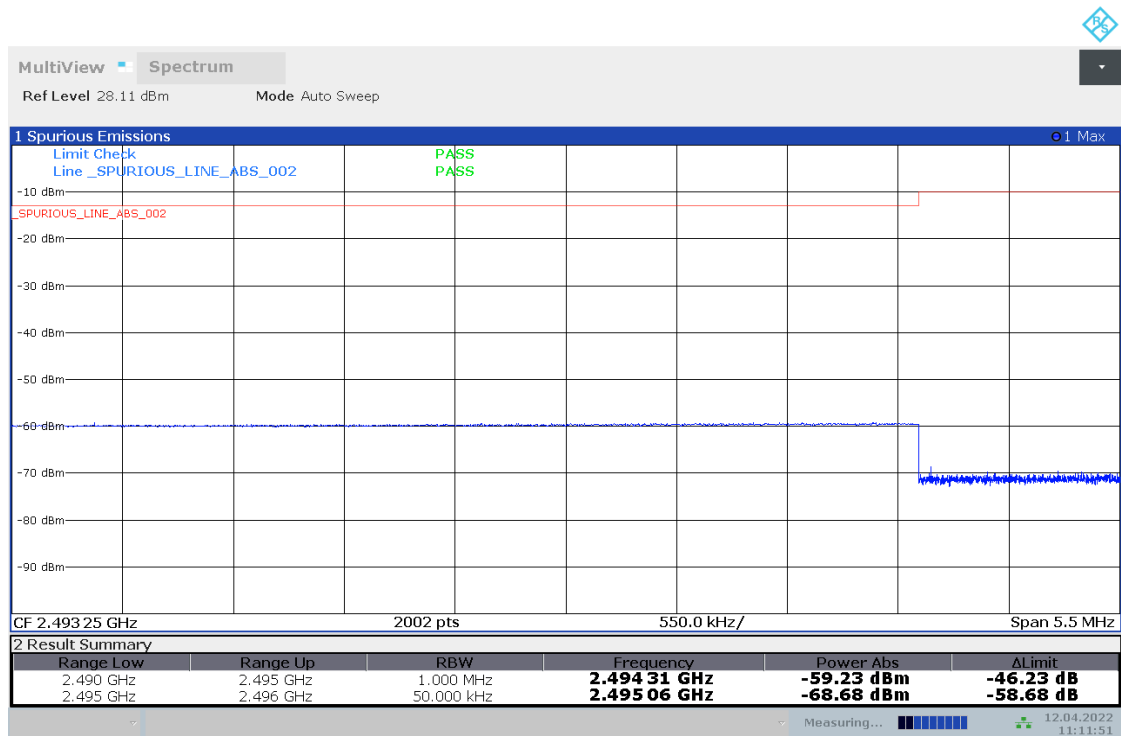


11:10:15 12.04.2022

## 5.2.18 TM2\_5MHZ\_HCH\_RB1#24

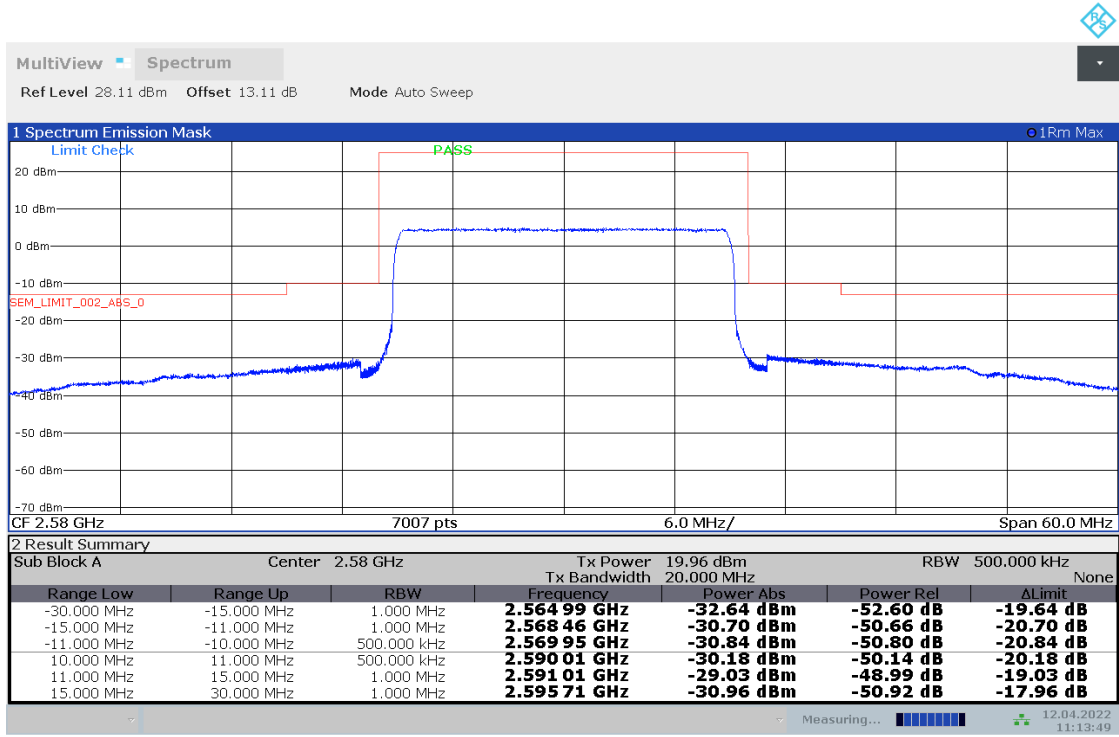


11:11:40 12.04.2022

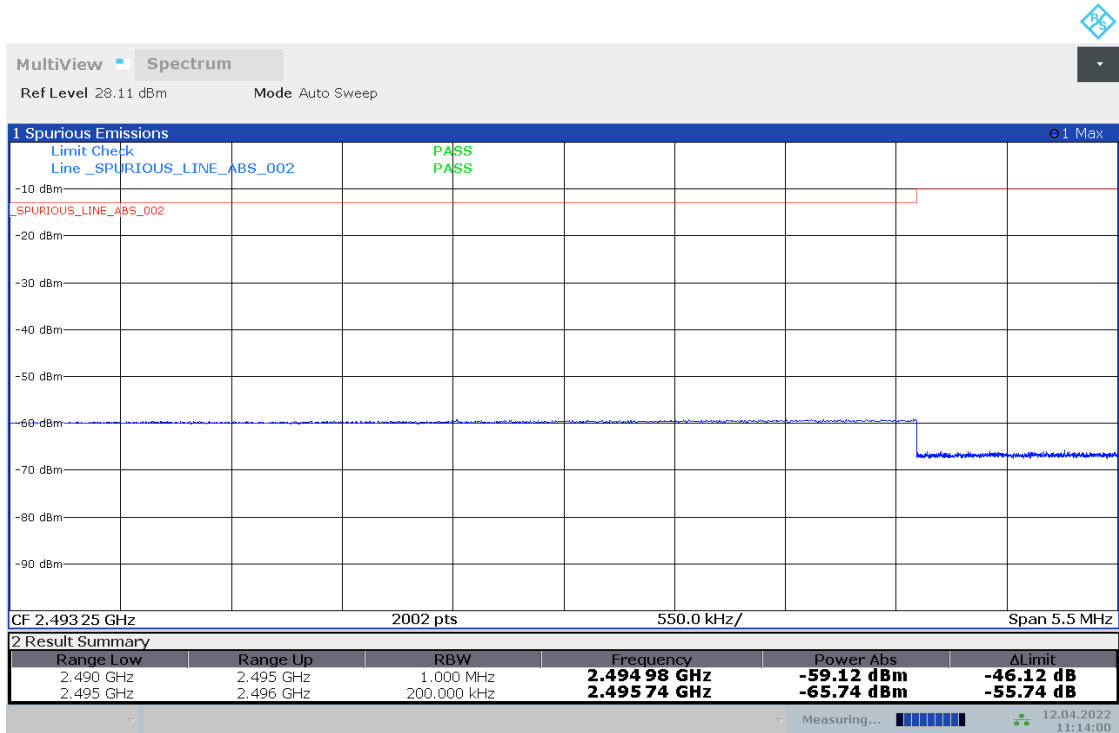


11:11:51 12.04.2022

## 5.2.19 TM2\_20MHZ\_LCH\_RB100#0

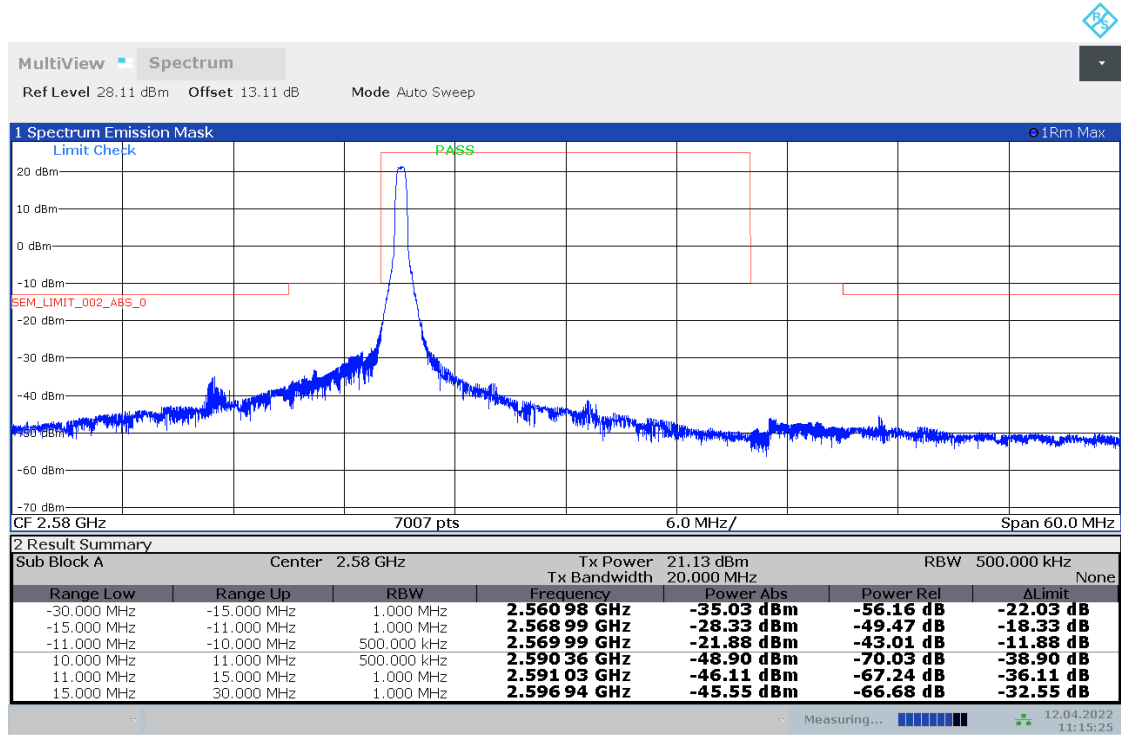


11:13:49 12.04.2022

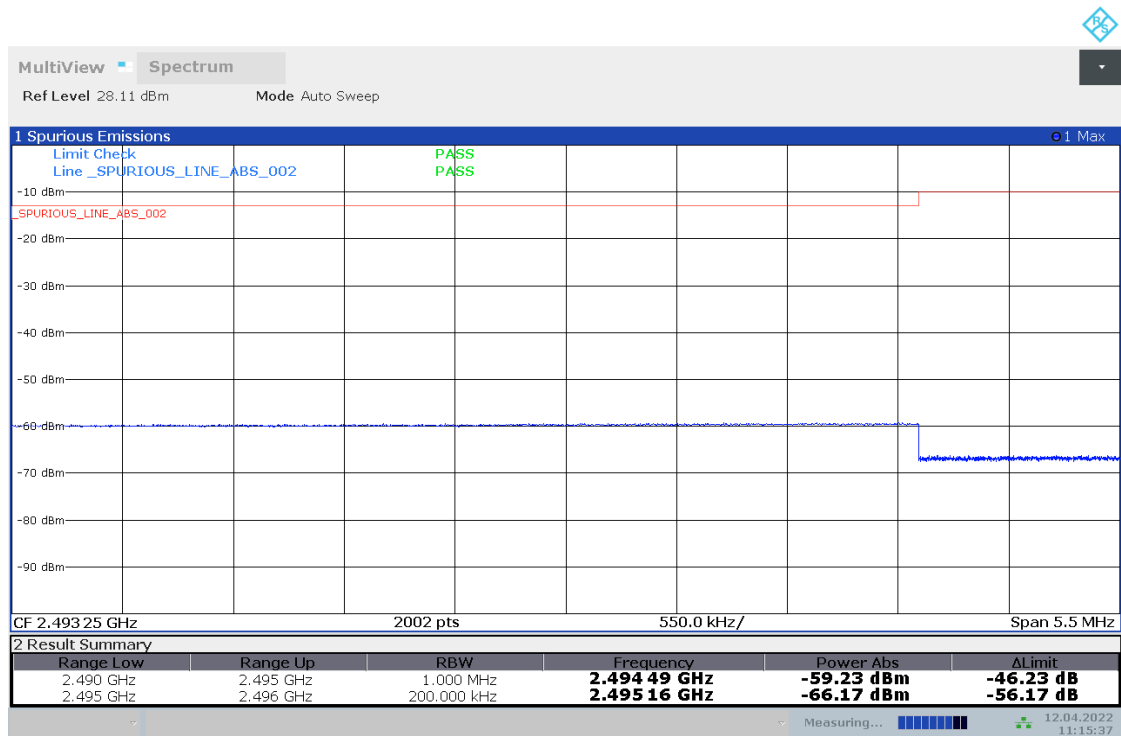


11:14:00 12.04.2022

## 5.2.20 TM2\_20MHZ\_LCH\_RB1#0

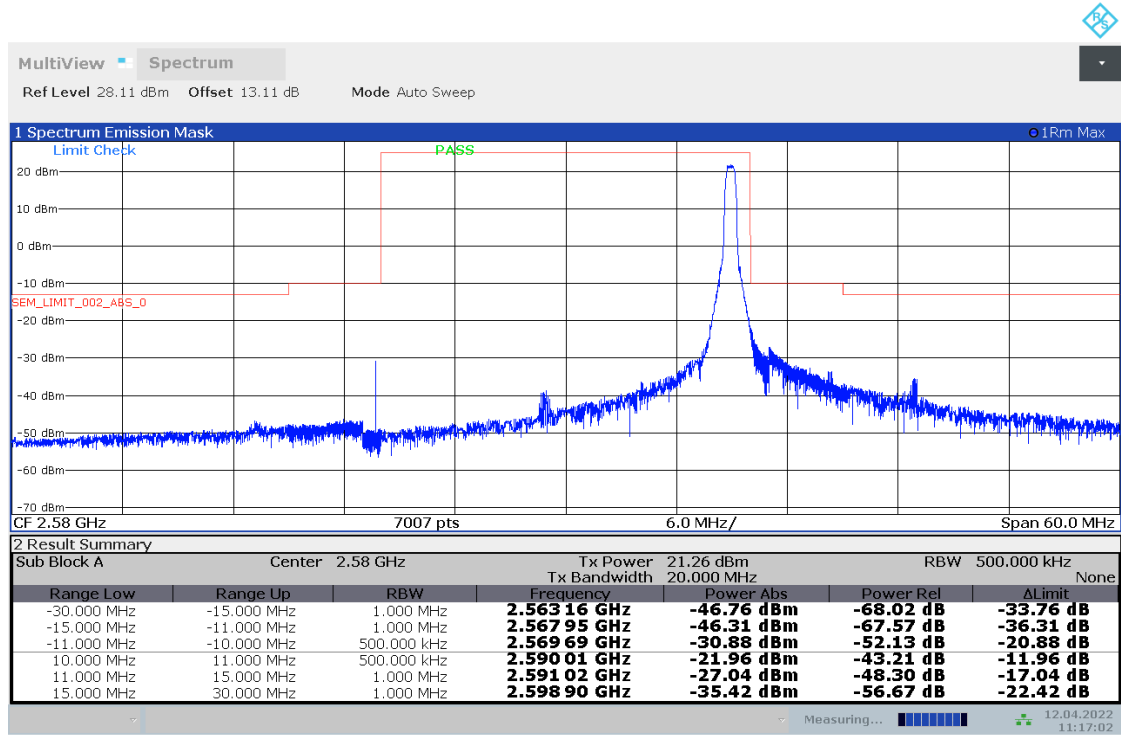


11:15:25 12.04.2022

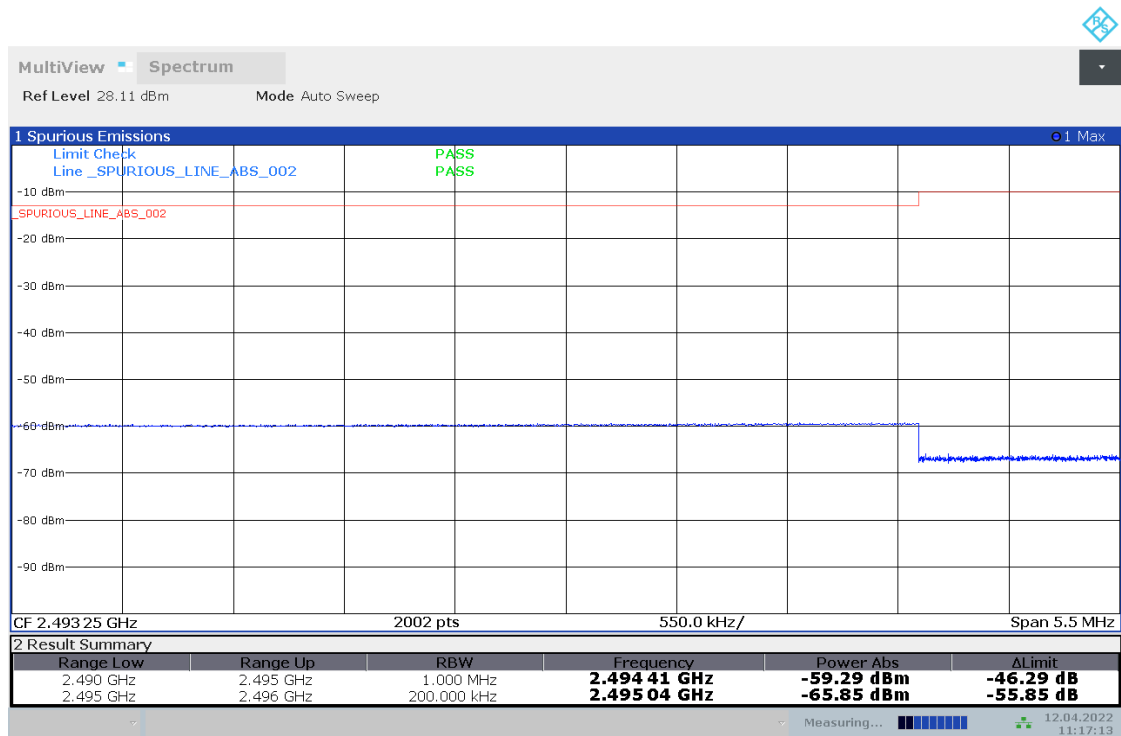


11:15:37 12.04.2022

## 5.2.21 TM2\_20MHZ\_LCH\_RB1#99

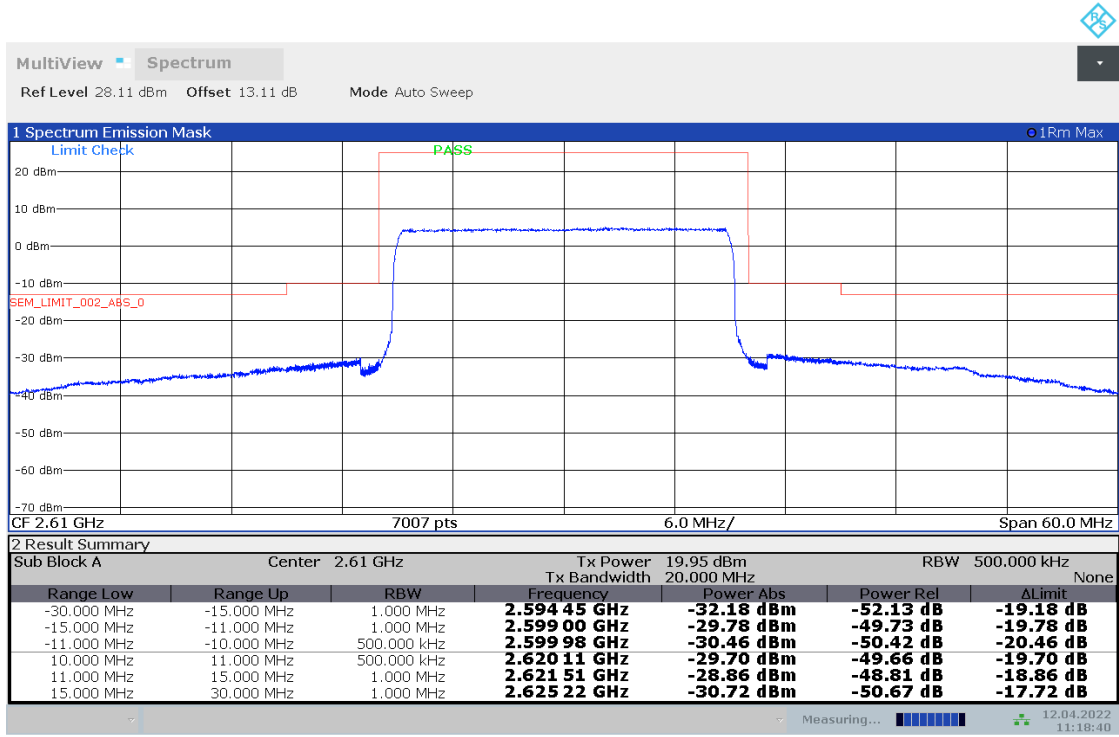


11:17:02 12.04.2022

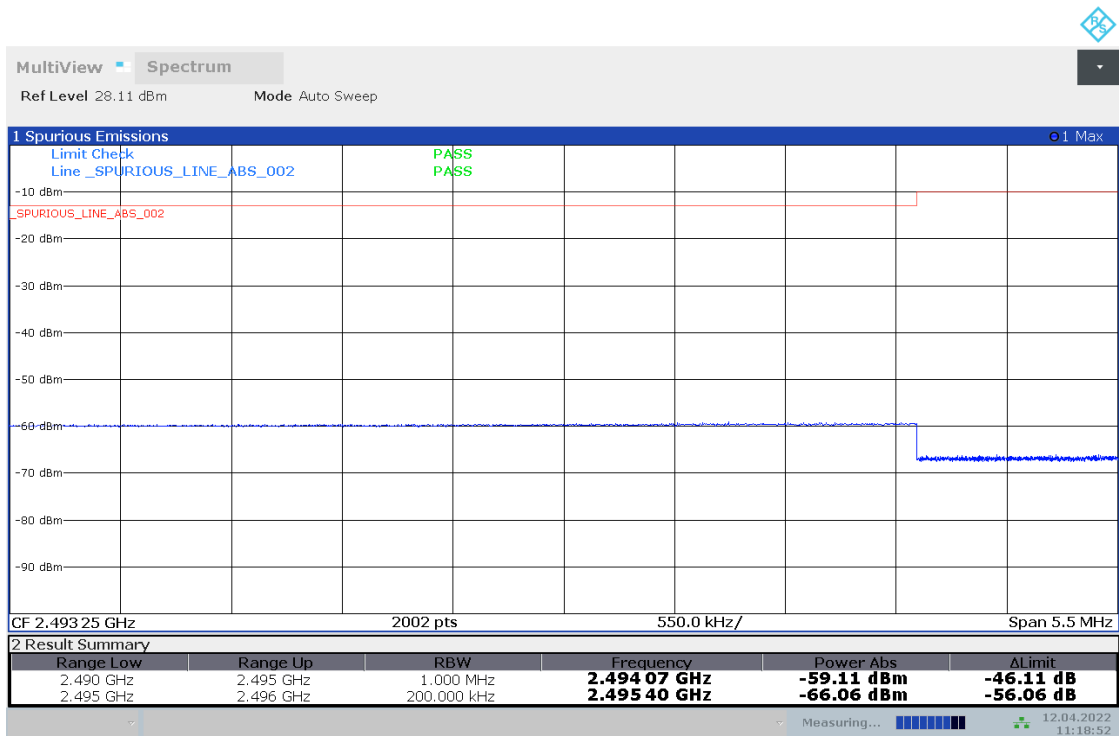


11:17:14 12.04.2022

## 5.2.22 TM2\_20MHZ\_HCH\_RB100#0

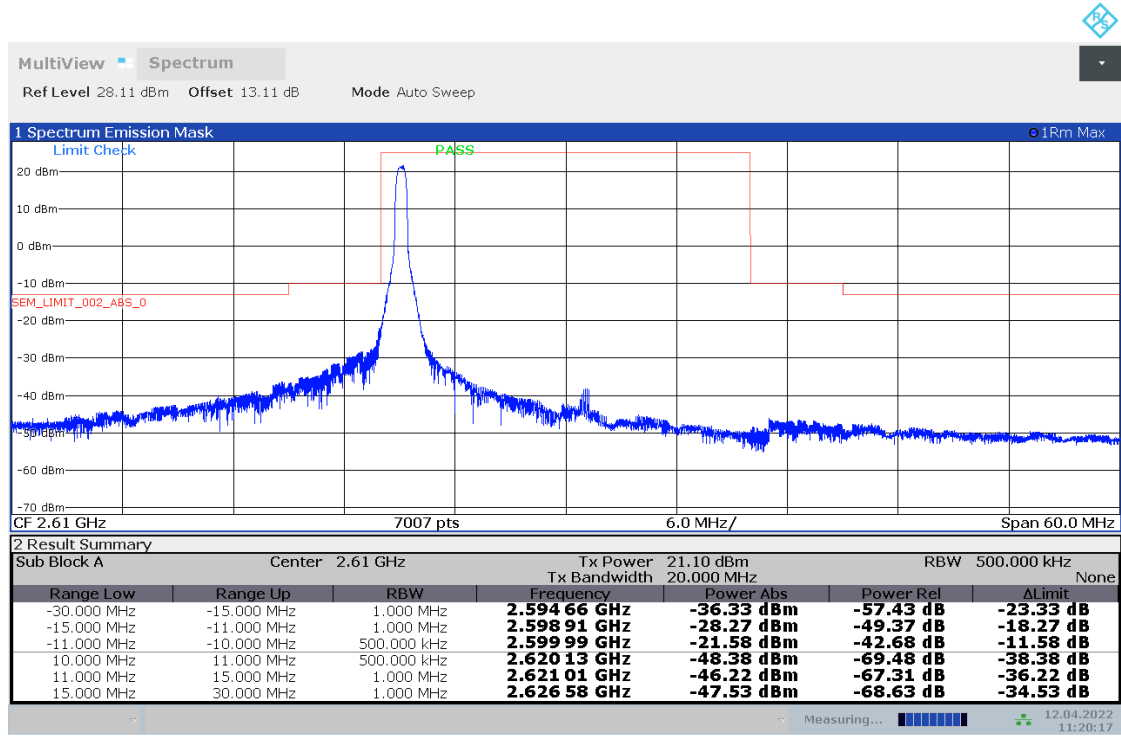


11:18:41 12.04.2022

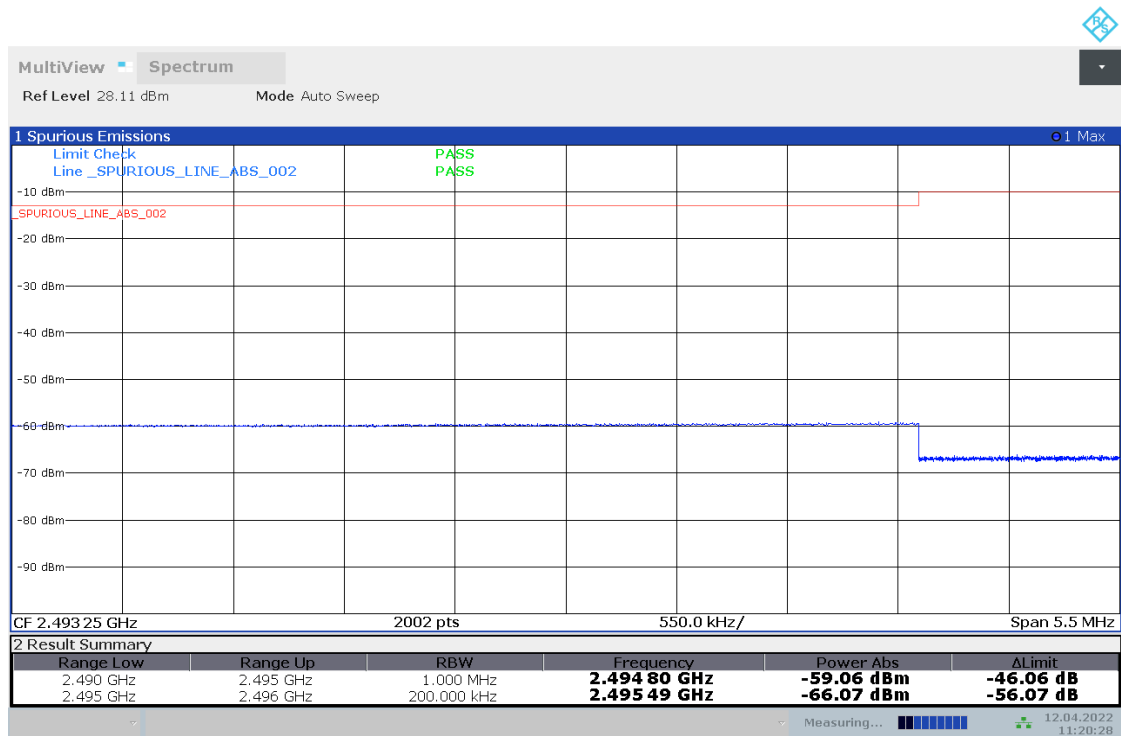


11:18:53 12.04.2022

## 5.2.23 TM2\_20MHZ\_HCH\_RB1#0

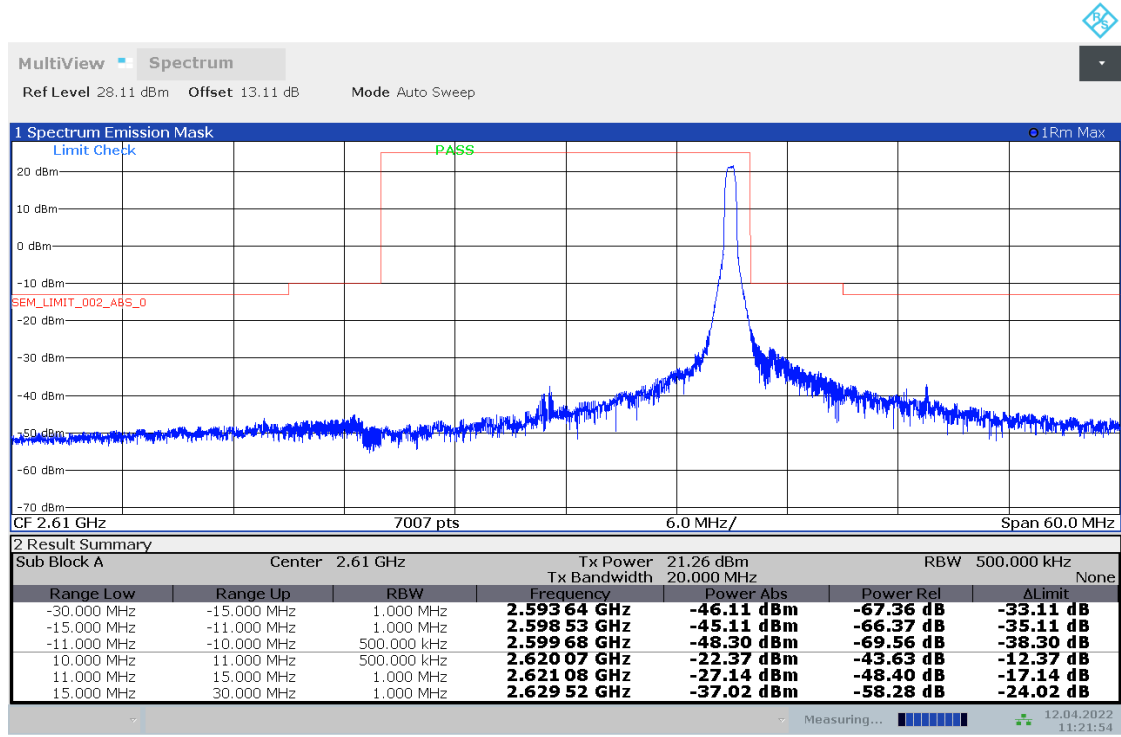


11:20:17 12.04.2022

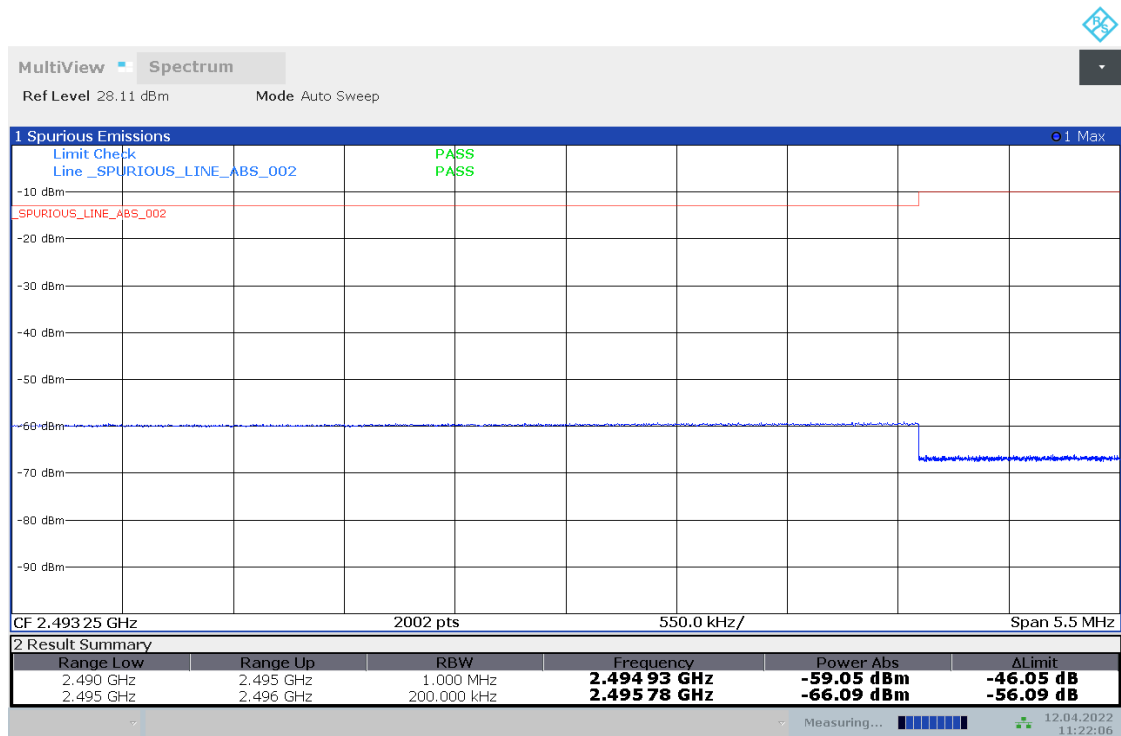


11:20:29 12.04.2022

## 5.2.24 TM2\_20MHZ\_HCH\_RB1#99



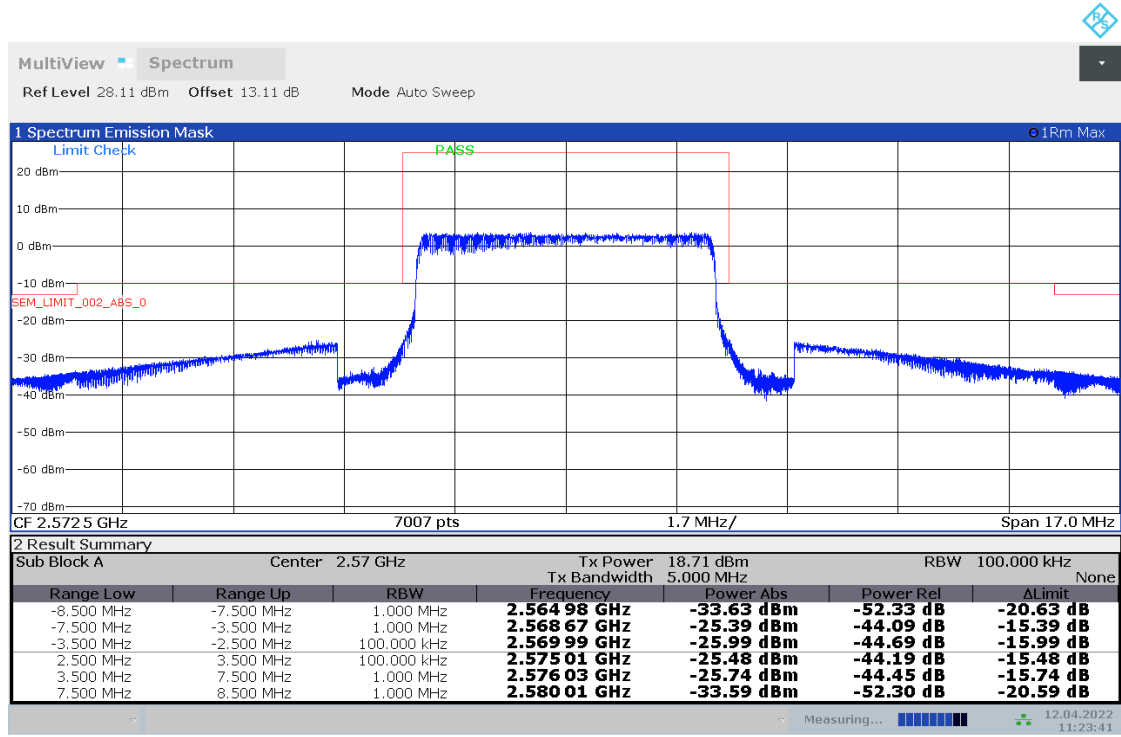
11:21:55 12.04.2022



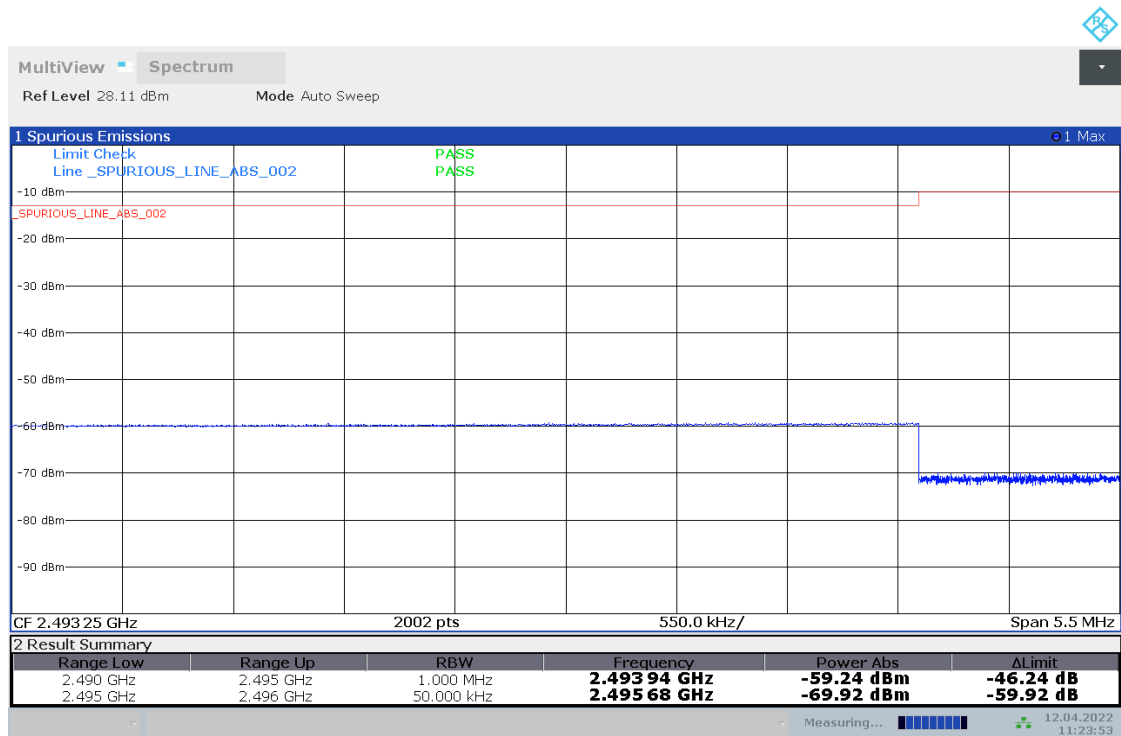
11:22:06 12.04.2022



## 5.2.25 TM3\_5MHZ\_LCH\_RB25#0

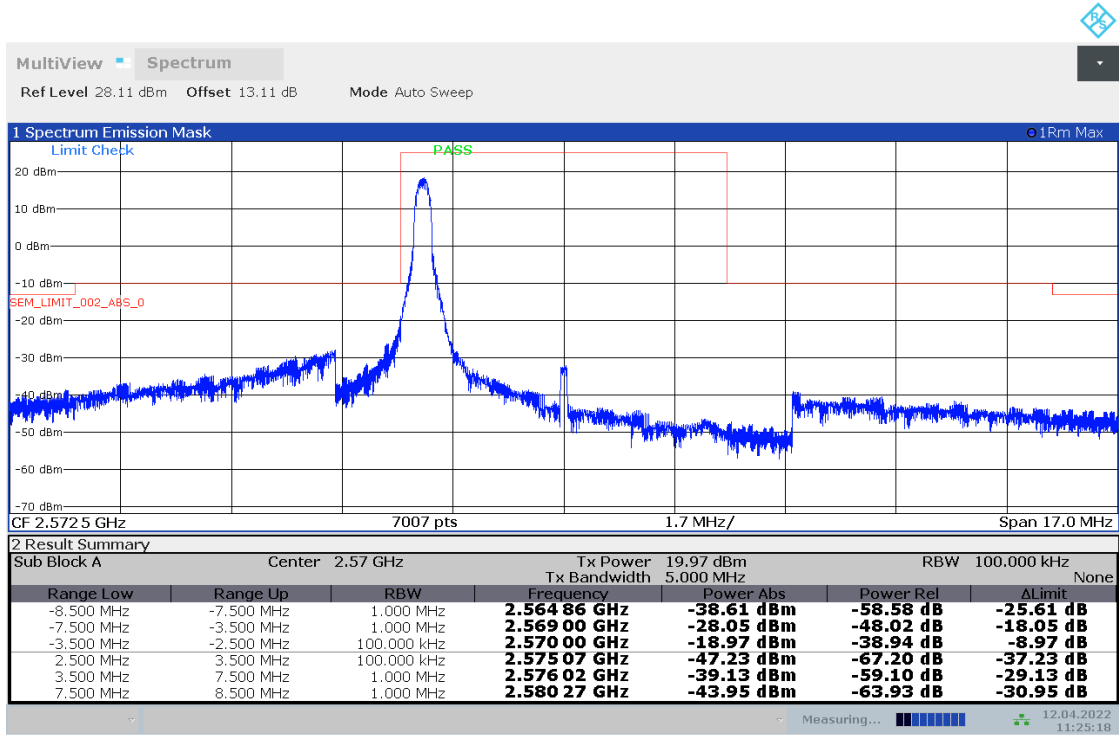


11:23:42 12.04.2022

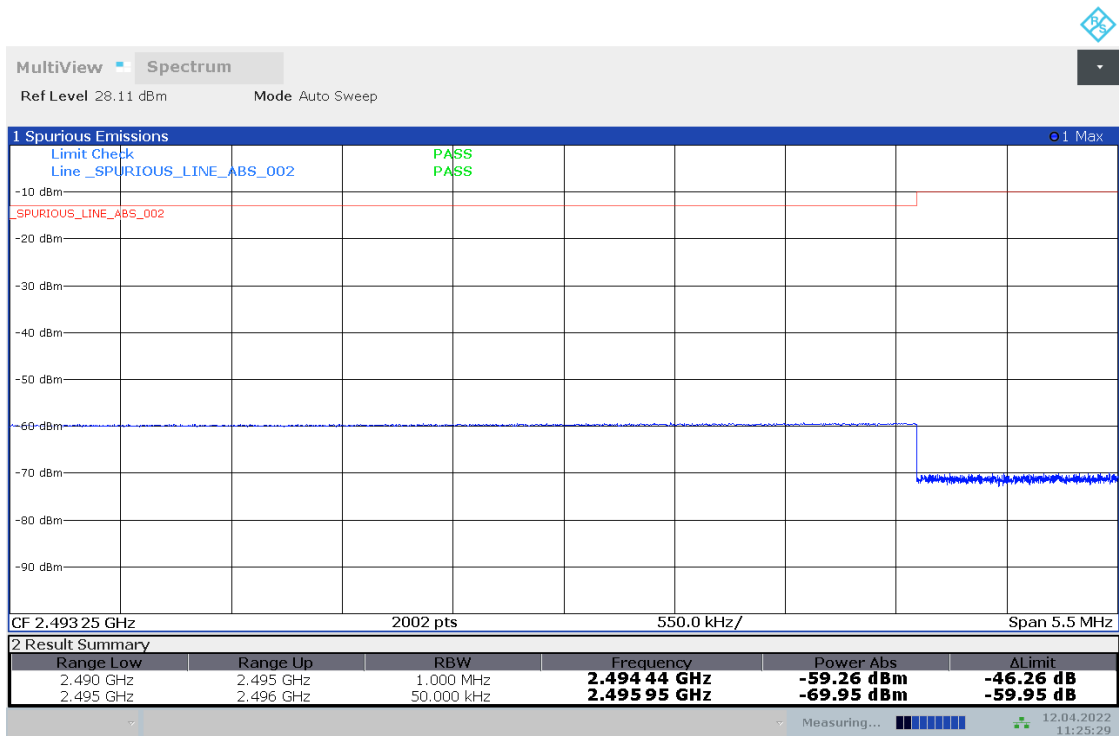


11:23:54 12.04.2022

## 5.2.26 TM3\_5MHZ\_LCH\_RB1#0

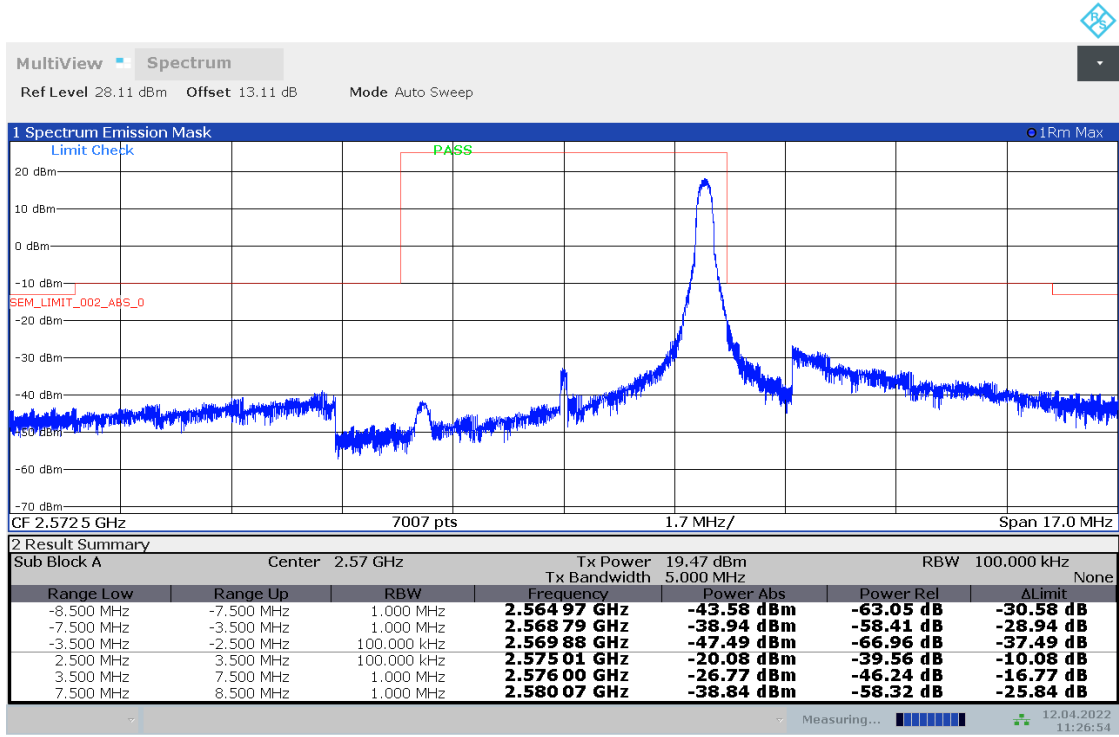


11:25:18 12.04.2022

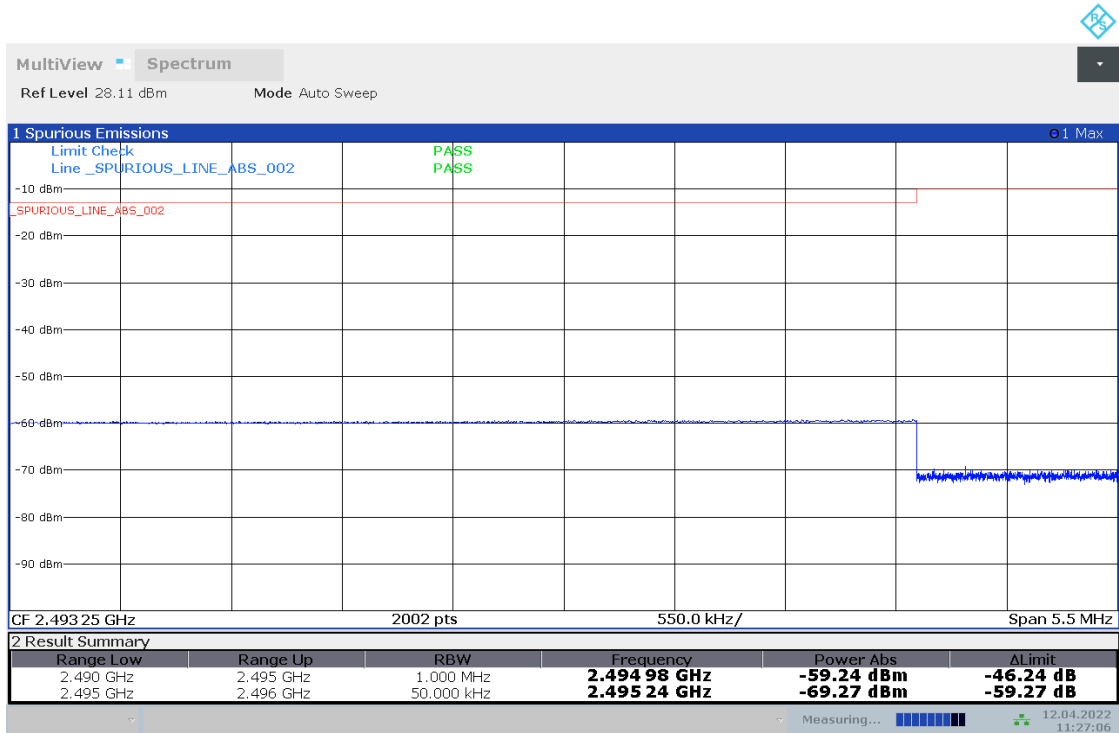


11:25:30 12.04.2022

## 5.2.27 TM3\_5MHZ\_LCH\_RB1#24

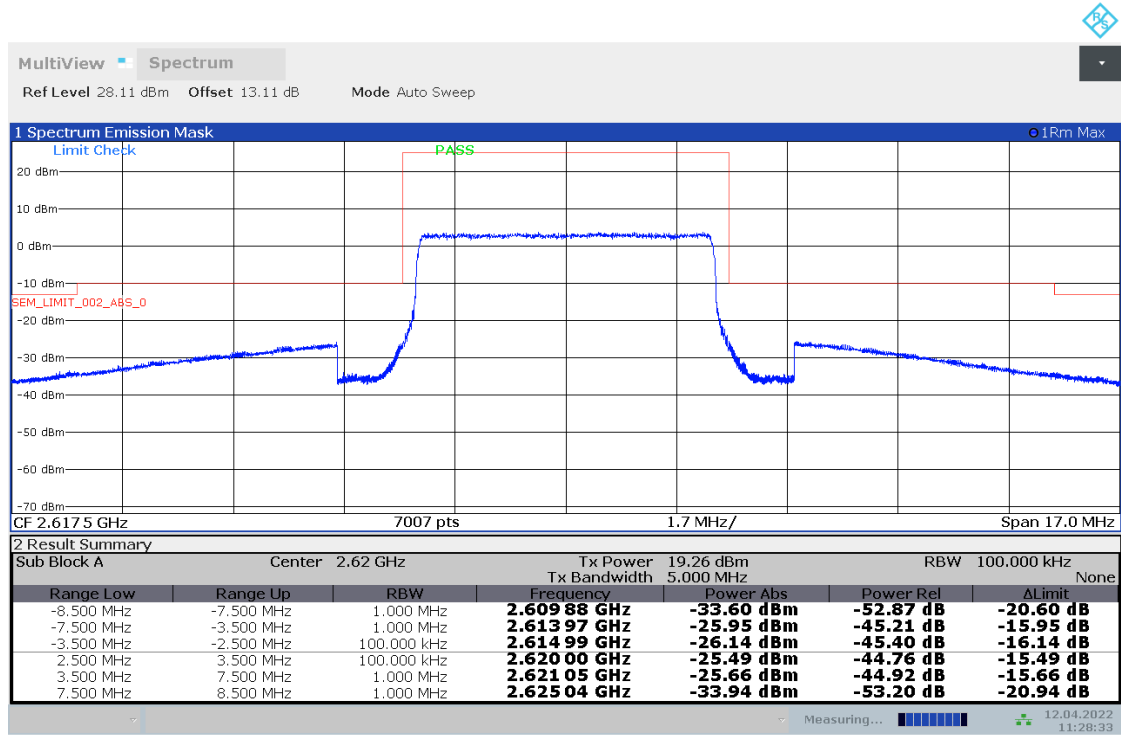


11:26:55 12.04.2022

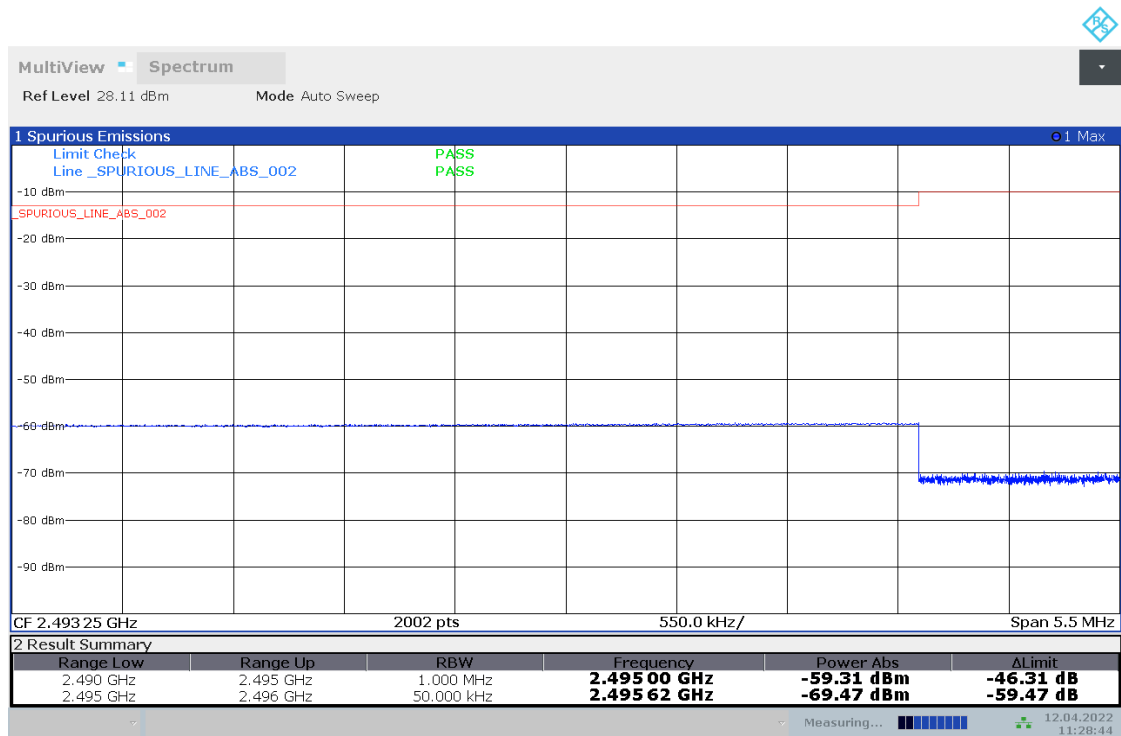


11:27:07 12.04.2022

## 5.2.28 TM3\_5MHZ\_HCH\_RB25#0



11:28:34 12.04.2022



11:28:45 12.04.2022