

Appendix for WCDMA Band IV

Model: LGE-NX9

BTL-FCCP-3-2203G019

Table of Contents	Page
1 . APPENDIX A - EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER	3
1.1 TEST RESULTS	3
2 . APPENDIX B - PEAK-TO-AVERAGE RATIO	4
2.1 TEST RESULTS	4
3 . APPENDIX C - MODULATION CHARACTERISTICS	5
3.1 TEST PLOTS	5
3.1.1 BAND 4_TM1_MCH	5
4 . APPENDIX D - OCCUPIED BANDWIDTH	6
4.1 TEST RESULTS	6
4.2 TEST PLOTS	7
4.2.1 BAND 4_TM1_LCH	7
4.2.2 BAND 4_TM1_MCH	8
4.2.3 BAND 4_TM1_HCH	9
5 . APPENDIX E - BAND EDGES COMPLIANCE	10
5.1 TEST RESULTS	10
5.2 TEST PLOTS	11
5.2.1 BAND 4_TM1_LCH	11
5.2.2 BAND 4_TM1_HCH	11
6 . APPENDIX F - SPURIOUS EMISSION AT ANTENNA TERMINAL	12
6.1 TEST RESULTS	12
6.2 TEST PLOTS	13
6.2.1 BAND 4_TM1_LCH	13
6.2.2 BAND 4_TM1_MCH	15
6.2.3 BAND 4_TM1_HCH	17
7 . APPENDIX G - FREQUENCY STABILITY	19
7.1 TEST RESULTS	19
7.1.1 FREQUENCY ERROR VS. VOLTAGE	19
7.1.2 FREQUENCY ERROR VS. TEMPERATURE	20

1. APPENDIX A - EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER**1.1 TEST RESULTS**

Effective (Isotropic) Radiated Power of Transmitter							
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
4	TM1	LCH	23.12	-3.2	19.92	30	PASS
		MCH	23.20	-3.2	20.00	30	PASS
		HCH	23.42	-3.2	20.22	30	PASS

2. APPENDIX B - PEAK-TO-AVERAGE RATIO

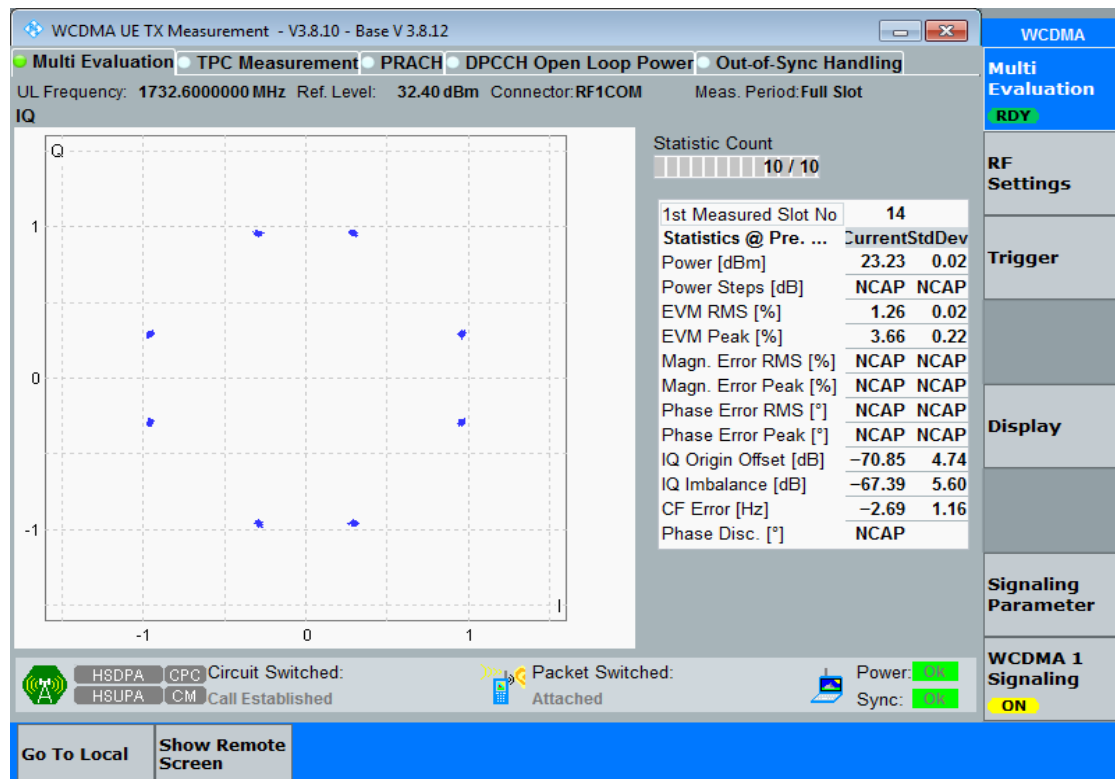
2.1 TEST RESULTS

Peak-to-Average Ratio					
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dBm]	Verdict
4	TM1	LCH	2.81	13	PASS
		MCH	2.69	13	PASS
		HCH	2.73	13	PASS

3. APPENDIX C - MODULATION CHARACTERISTICS

3.1 TEST PLOTS

3.1.1 BAND 4_TM1_MCH



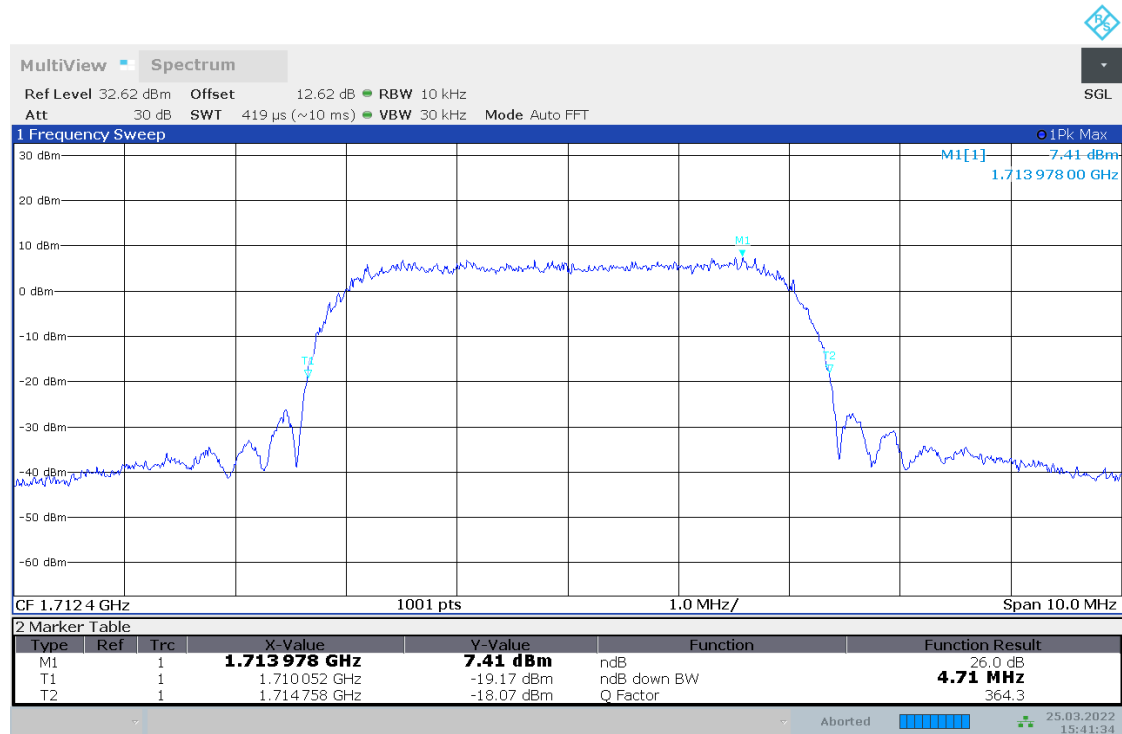
4. APPENDIX D - OCCUPIED BANDWIDTH

4.1 TEST RESULTS

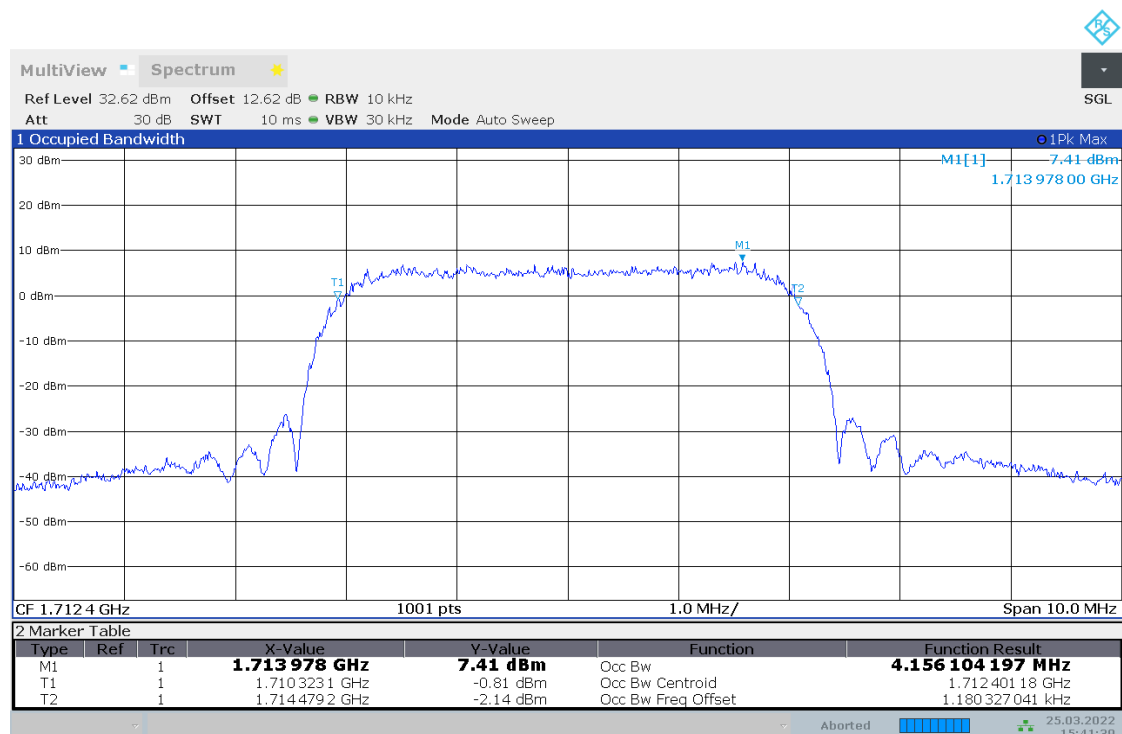
Occupied Bandwidth					
Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [KHz]	Verdict
4	TM1	LCH	4.16	4.71	PASS
		MCH	4.16	4.71	PASS
		HCH	4.16	4.71	PASS

4.2 TEST PLOTS

4.2.1 BAND 4_TM1_LCH

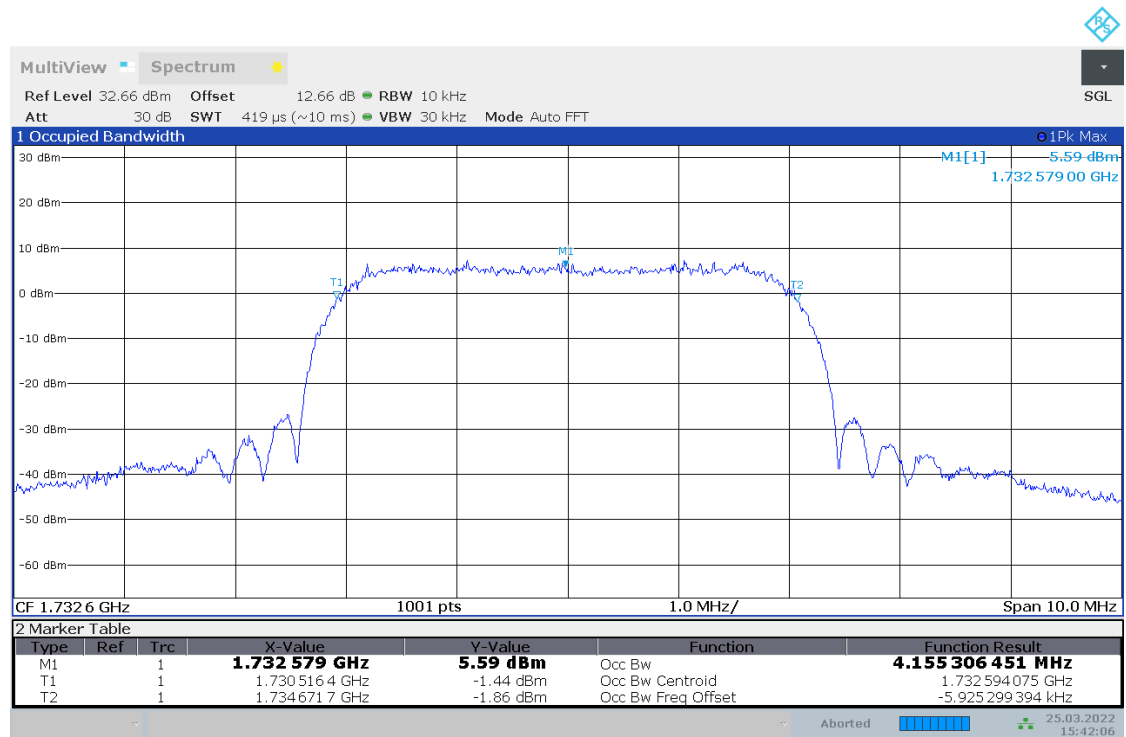
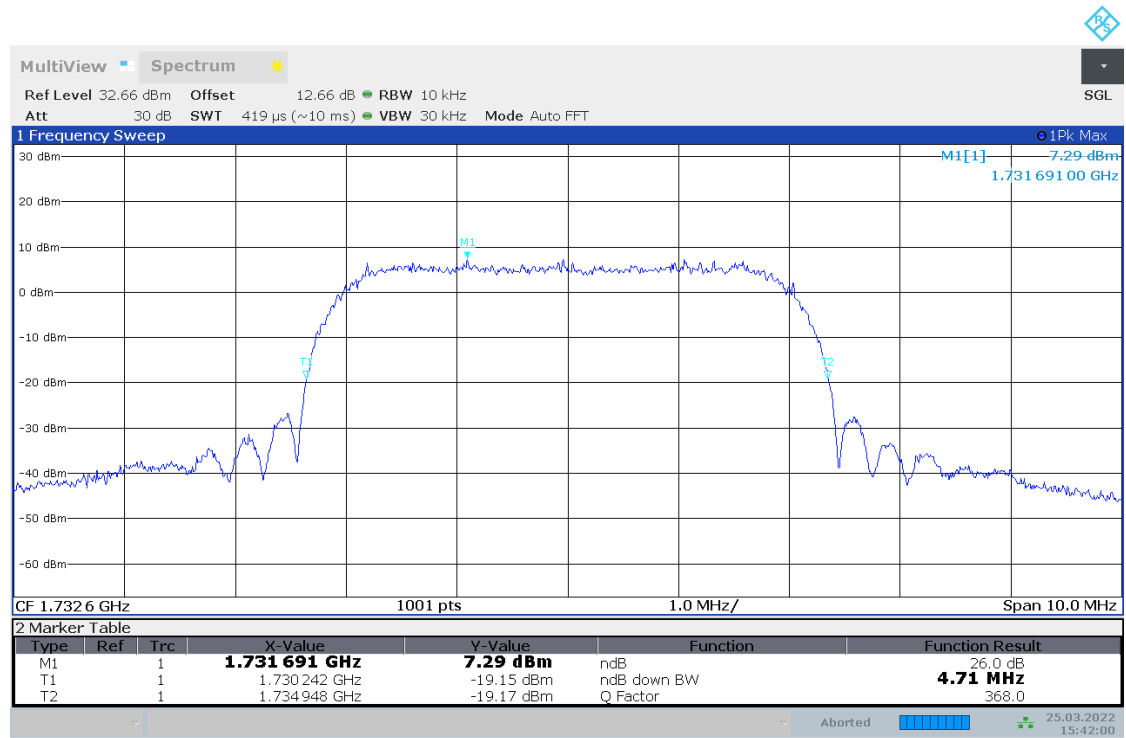


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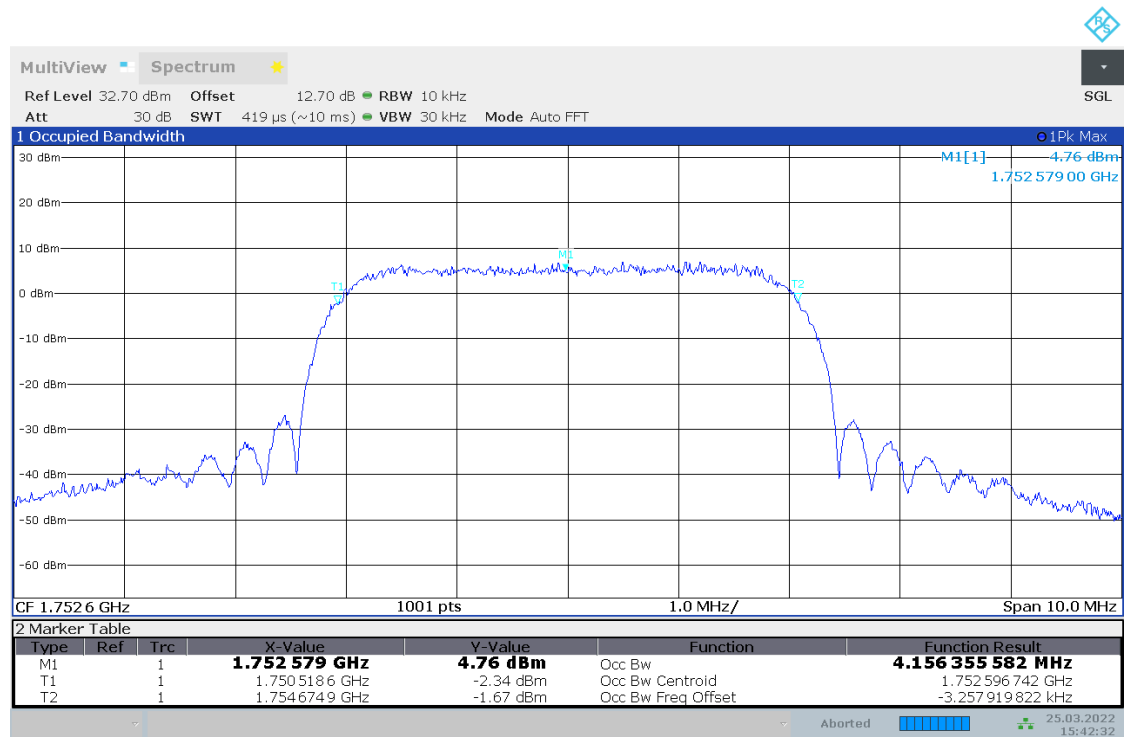
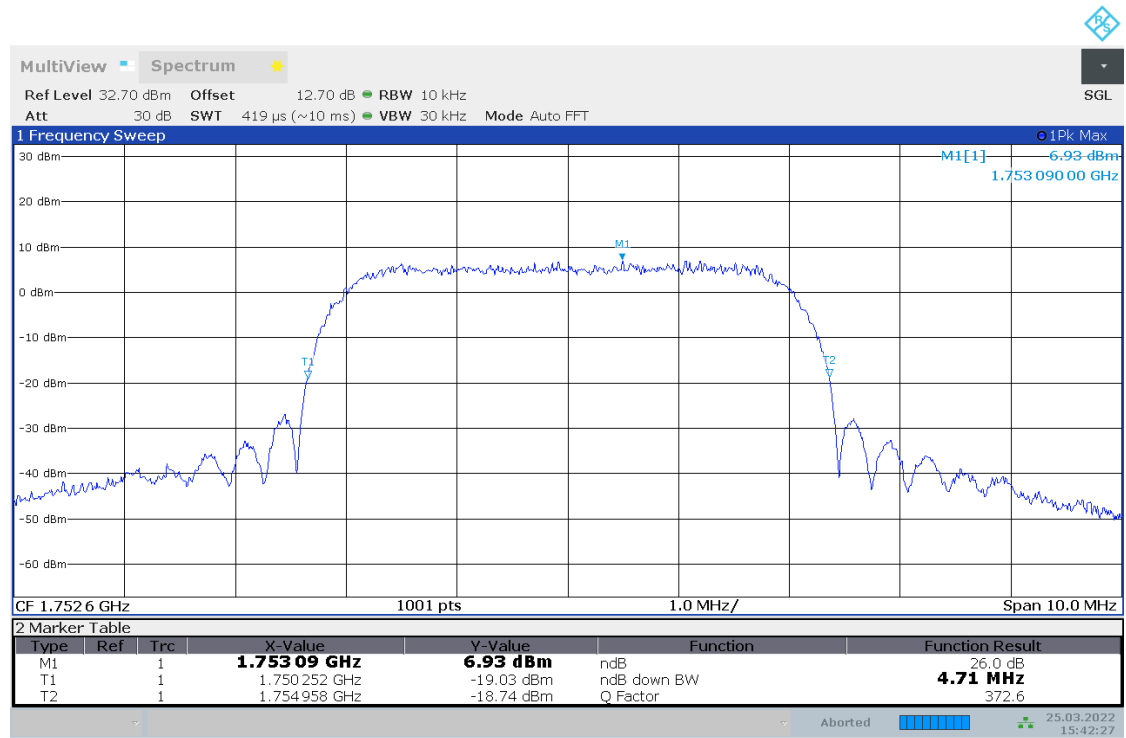


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4.2.2 BAND 4_TM1_MCH



4.2.3 BAND 4_TM1_HCH



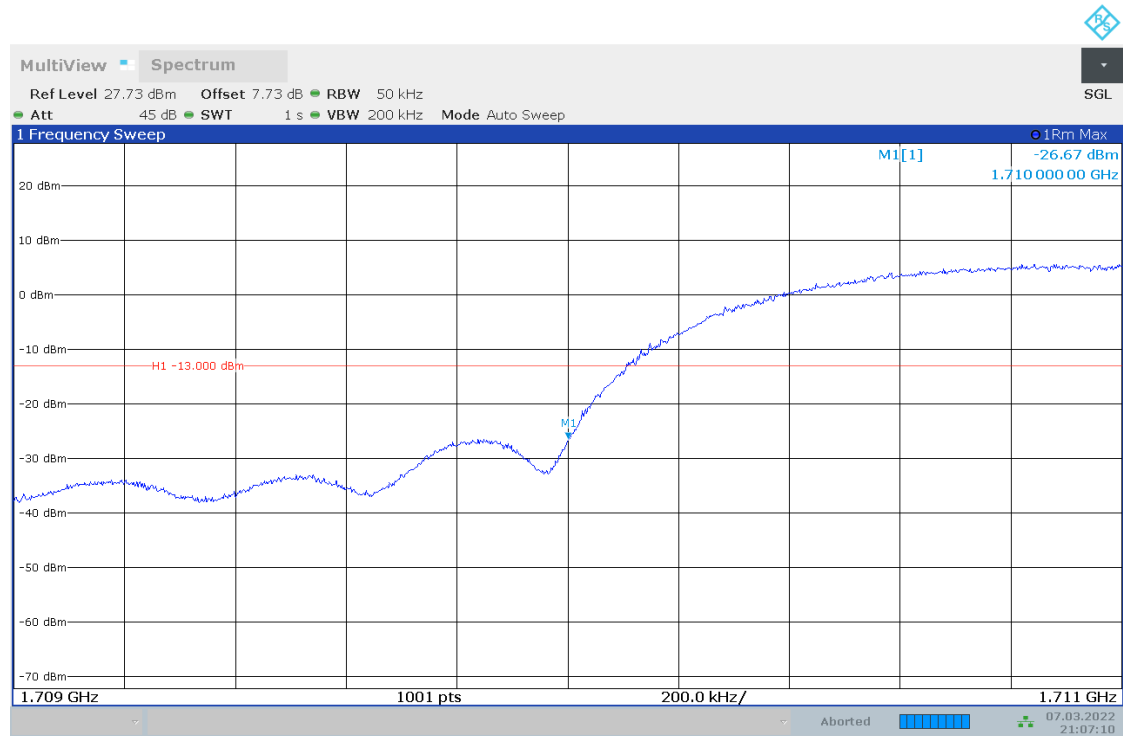
5. APPENDIX E - BAND EDGES COMPLIANCE

5.1 TEST RESULTS

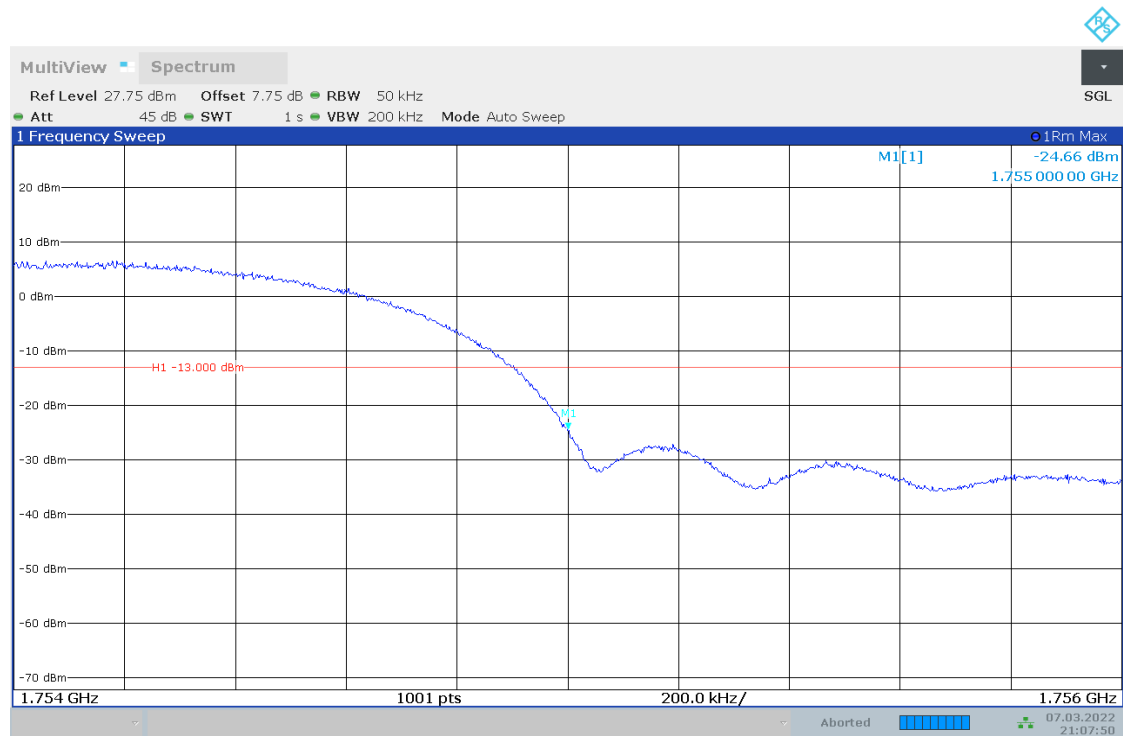
Band Edges Compliance						
Test Band	Test Mode	Test Channel	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
4	TM1	LCH	1710	-26.67	-13	PASS
		HCH	1755	-24.66	-13	PASS

5.2 TEST PLOTS

5.2.1 BAND 4_TM1_LCH



5.2.2 BAND 4_TM1_HCH



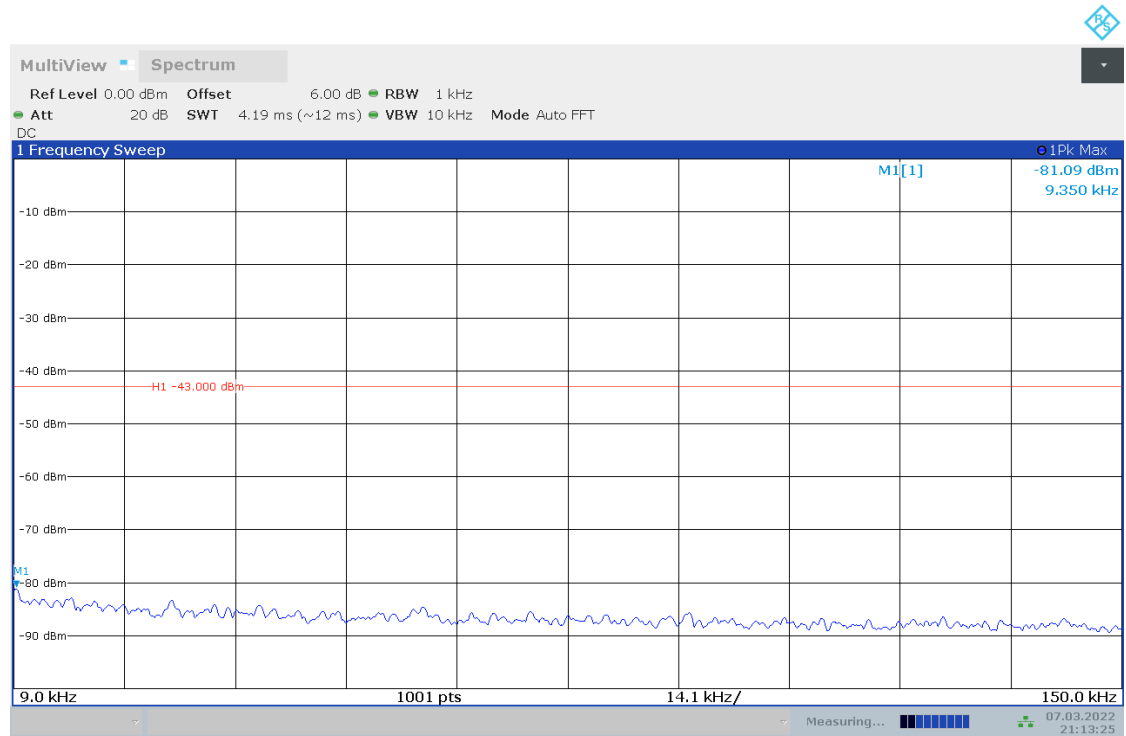
6. APPENDIX F - SPURIOUS EMISSION AT ANTENNA TERMINAL

6.1 TEST RESULTS

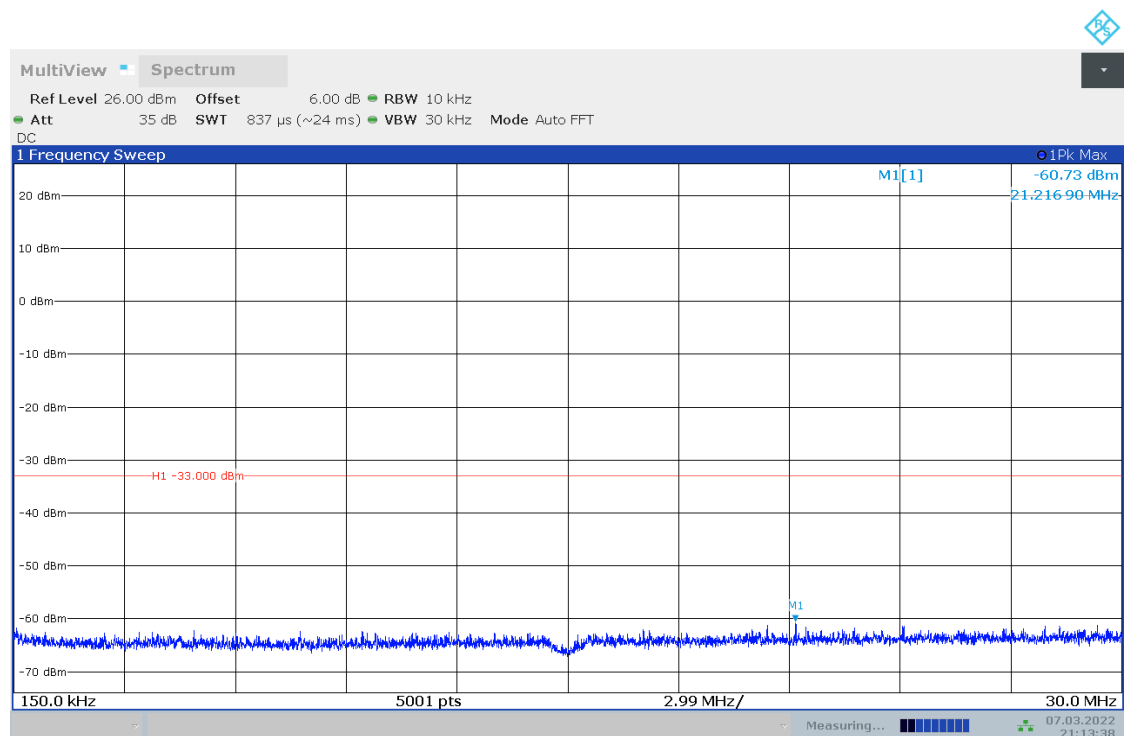
Spurious Emission at Antenna Terminal								
Test Band	Test Mode	Test Channel	Start Freq. [MHz]	Stop Freq. [MHz]	Measured Freq. [MHz]	Measured Power [dBm]	Limit [dBm]	Verdict
4	TM1	LCH	0.009	0.15	0.01	-81.09	-43	PASS
			0.15	30	21.22	-60.73	-33	PASS
			30	20000	18616.86	-34.64	-13	PASS
		MCH	0.009	0.15	0.01	-80.86	-43	PASS
			0.15	30	26.76	-61.30	-33	PASS
			30	20000	19104.62	-34.31	-13	PASS
		HCH	0.009	0.15	0.01	-81.82	-43	PASS
			0.15	30	18.78	-60.96	-33	PASS
			30	20000	19135.57	-33.99	-13	PASS

6.2 TEST PLOTS

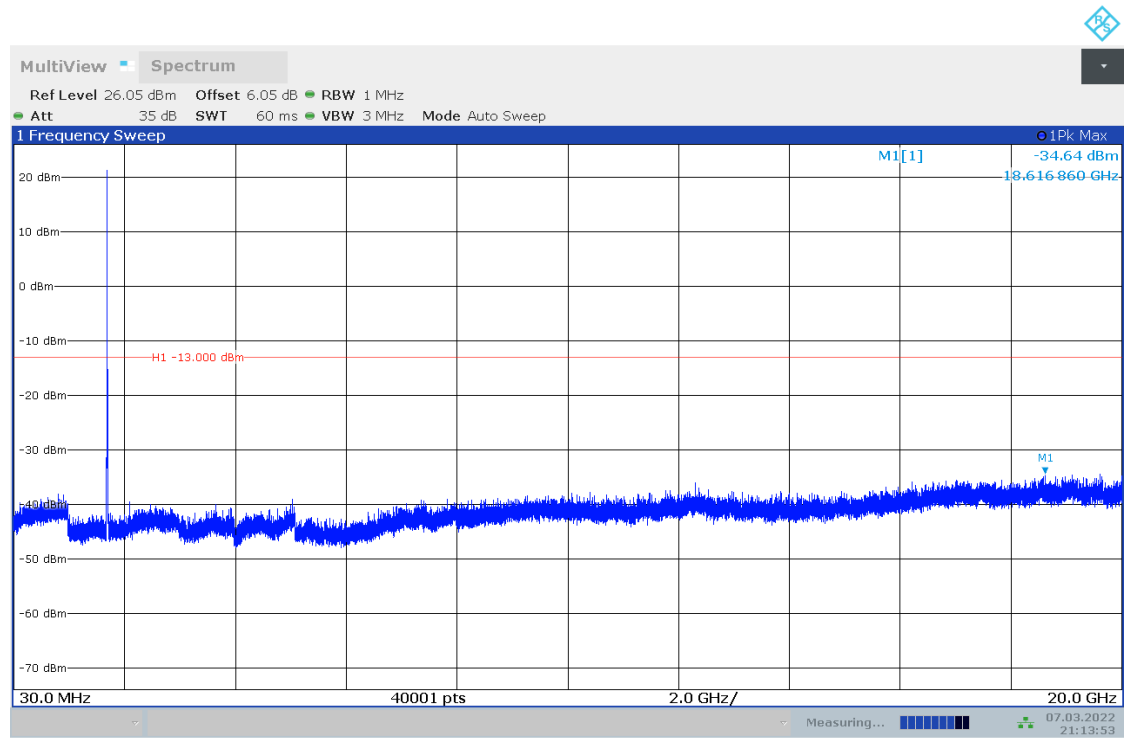
6.2.1 BAND 4_TM1_LCH



21:13:26 07.03.2022



21:13:39 07.03.2022

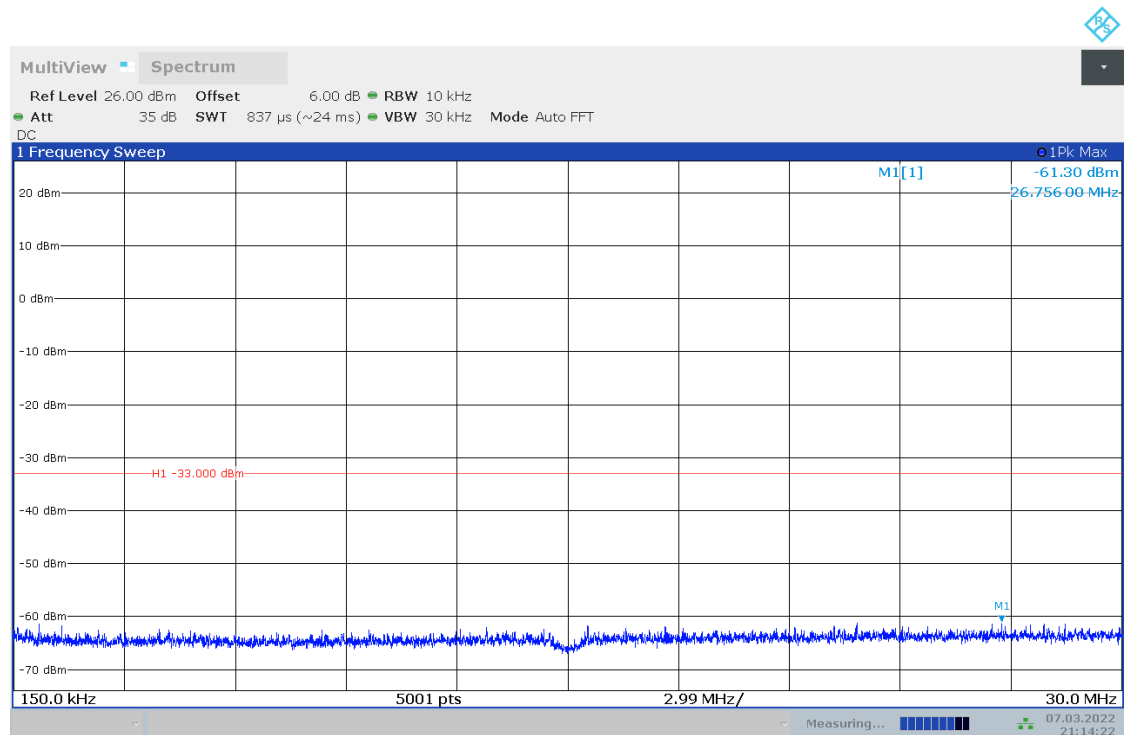


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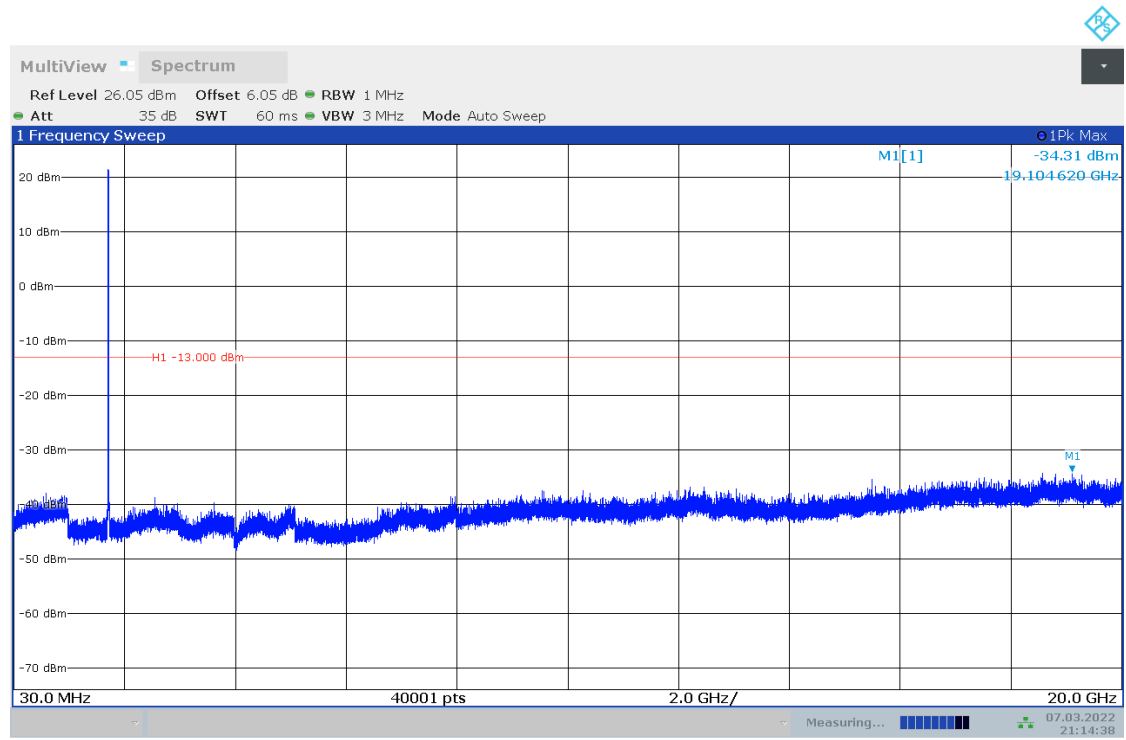
6.2.2 BAND 4_TM1_MCH



21:14:10 07.03.2022

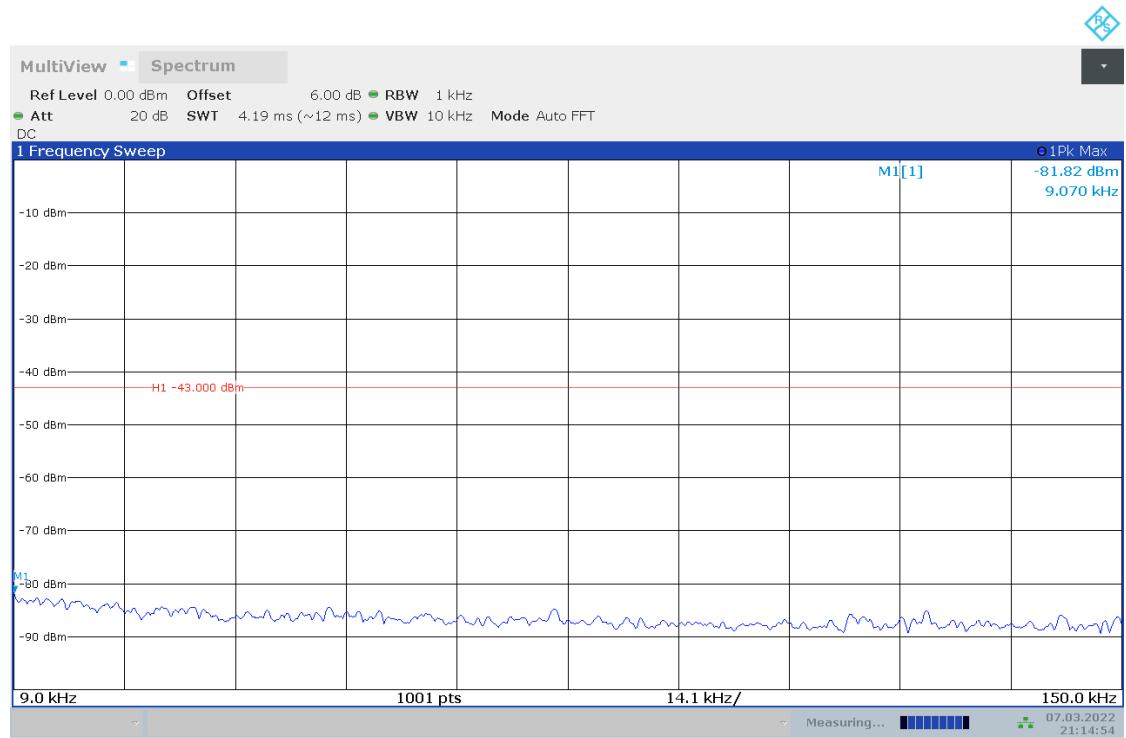


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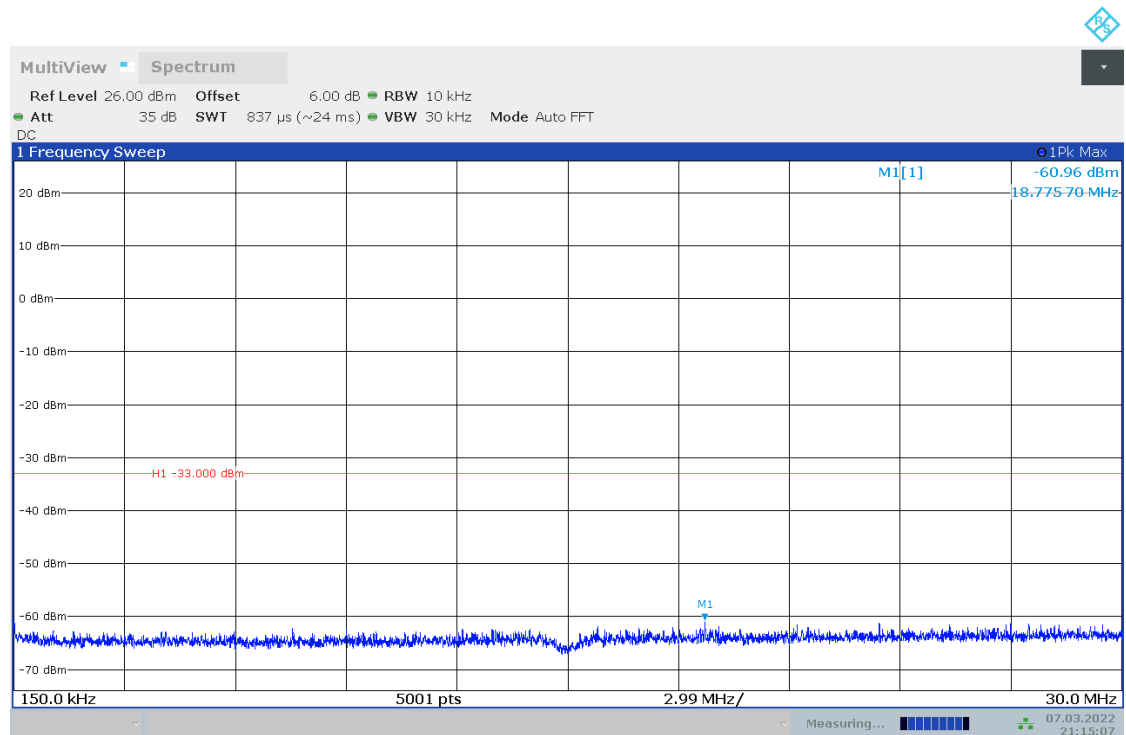


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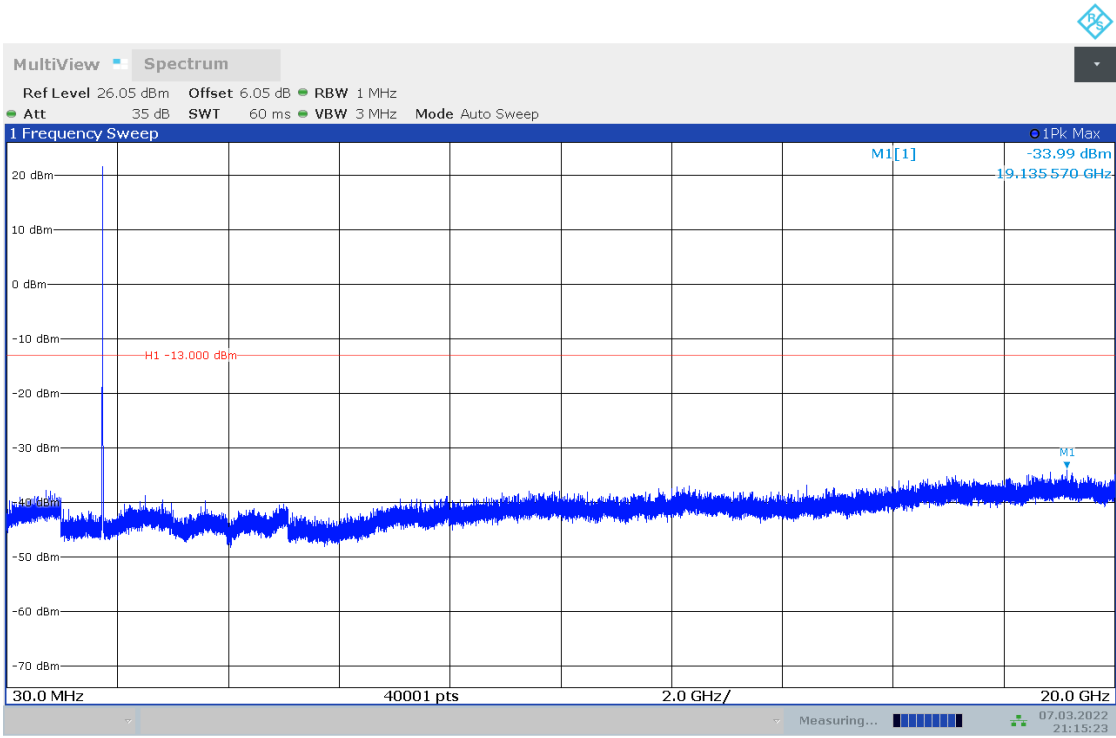
6.2.3 BAND 4_TM1_HCH



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21:15:08 07.03.2022



21:15:24 07.03.2022

7. APPENDIX G - FREQUENCY STABILITY

7.1 TEST RESULTS

7.1.1 FREQUENCY ERROR VS. VOLTAGE

Frequency Error vs. Voltage							
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
4	UMTS/TM1	LCH	TN	VH	12.06	0.01	PASS
			TN	VN	11.39	0.01	PASS
			TN	VL	11.32	0.01	PASS
		MCH	TN	VH	-3.54	0	PASS
			TN	VN	-4.13	0	PASS
			TN	VL	-3.92	0	PASS
		HCH	TN	VH	-11.28	-0.01	PASS
			TN	VN	-11.04	-0.01	PASS
			TN	VL	-11.08	-0.01	PASS

7.1.2 FREQUENCY ERROR VS. TEMPERATURE

Frequency Error vs. Temperature							
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
4	UMTS/TM1	LCH	VN	-30	13.30	0.01	PASS
			VN	-20	12.73	0.01	PASS
			VN	-10	13.2	0.01	PASS
			VN	0	13.63	0.01	PASS
			VN	10	12.57	0.01	PASS
			VN	20	13.15	0.01	PASS
			VN	30	13.2	0.01	PASS
			VN	40	13.44	0.01	PASS
			VN	50	13.18	0.01	PASS
		MCH	VN	-30	-4.40	0	PASS
			VN	-20	-3.82	0	PASS
			VN	-10	-4.18	0	PASS
			VN	0	-2.78	0	PASS
			VN	10	-3.83	0	PASS
			VN	20	-4.01	0	PASS
			VN	30	-4.09	0	PASS
			VN	40	-4.11	0	PASS
			VN	50	-3.55	0	PASS
		HCH	VN	-30	-12.59	-0.01	PASS
			VN	-20	-13.37	-0.01	PASS
			VN	-10	-13.09	-0.01	PASS
			VN	0	-12.81	-0.01	PASS
			VN	10	-13.25	-0.01	PASS
			VN	20	-12.33	-0.01	PASS
			VN	30	-12.07	-0.01	PASS
			VN	40	-13.29	-0.01	PASS
			VN	50	-13.19	-0.01	PASS

End of Test Report