

Appendix -

Test Data and Result for report

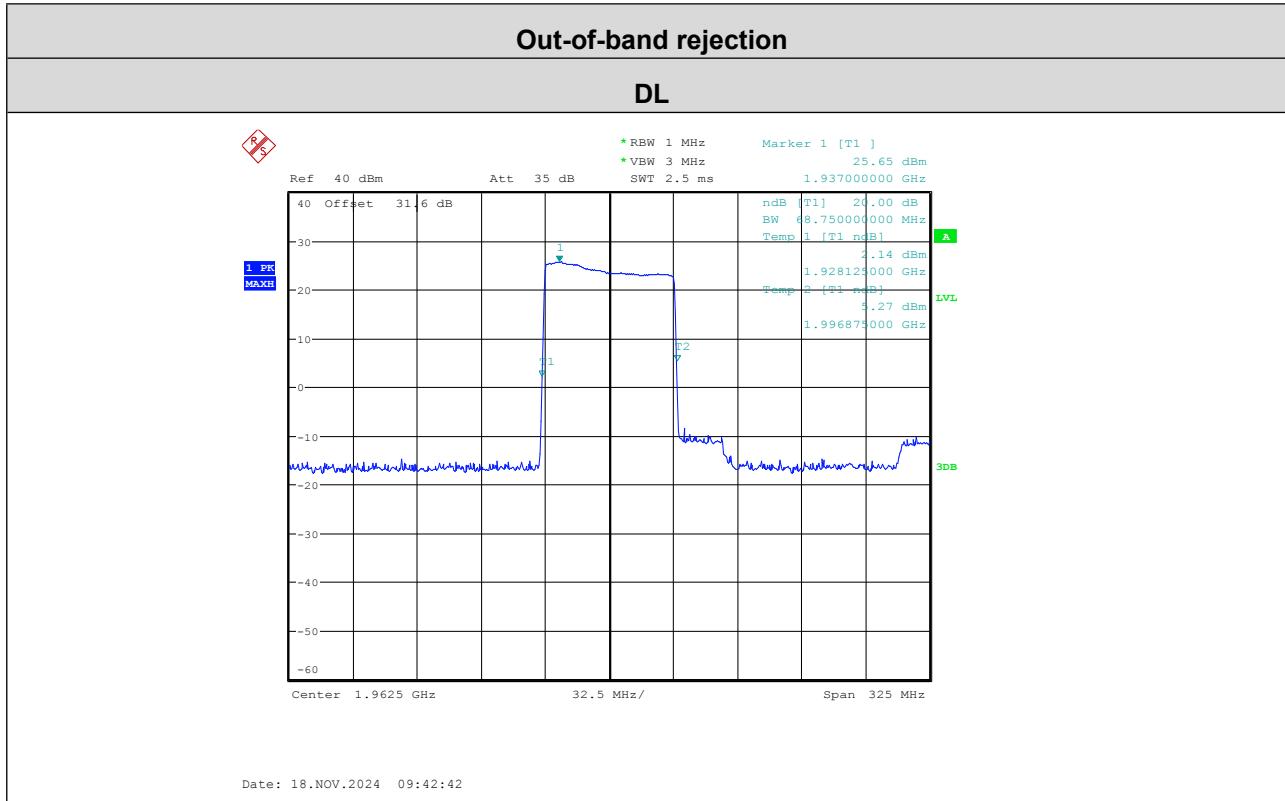
GZCR241100135106

(For Broadband PCS band DL)



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1 Out-of-band rejection**Remark:**

1. The peak of the frequency response f_0 is 1937.0MHz.
2. The frequency point f_0 with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
3. AGC threshold level was measured as below:

Test Path	Test Signal	Test Channel	AGC threshold level
DL	4.1MHz AWGN	MCH	15.15dBm
	100MHz AWGN	MCH	15.15dBm
	GSM	MCH	15.15dBm



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2 Input versus Output comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS*
			3dB above AGC	PASS*
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS

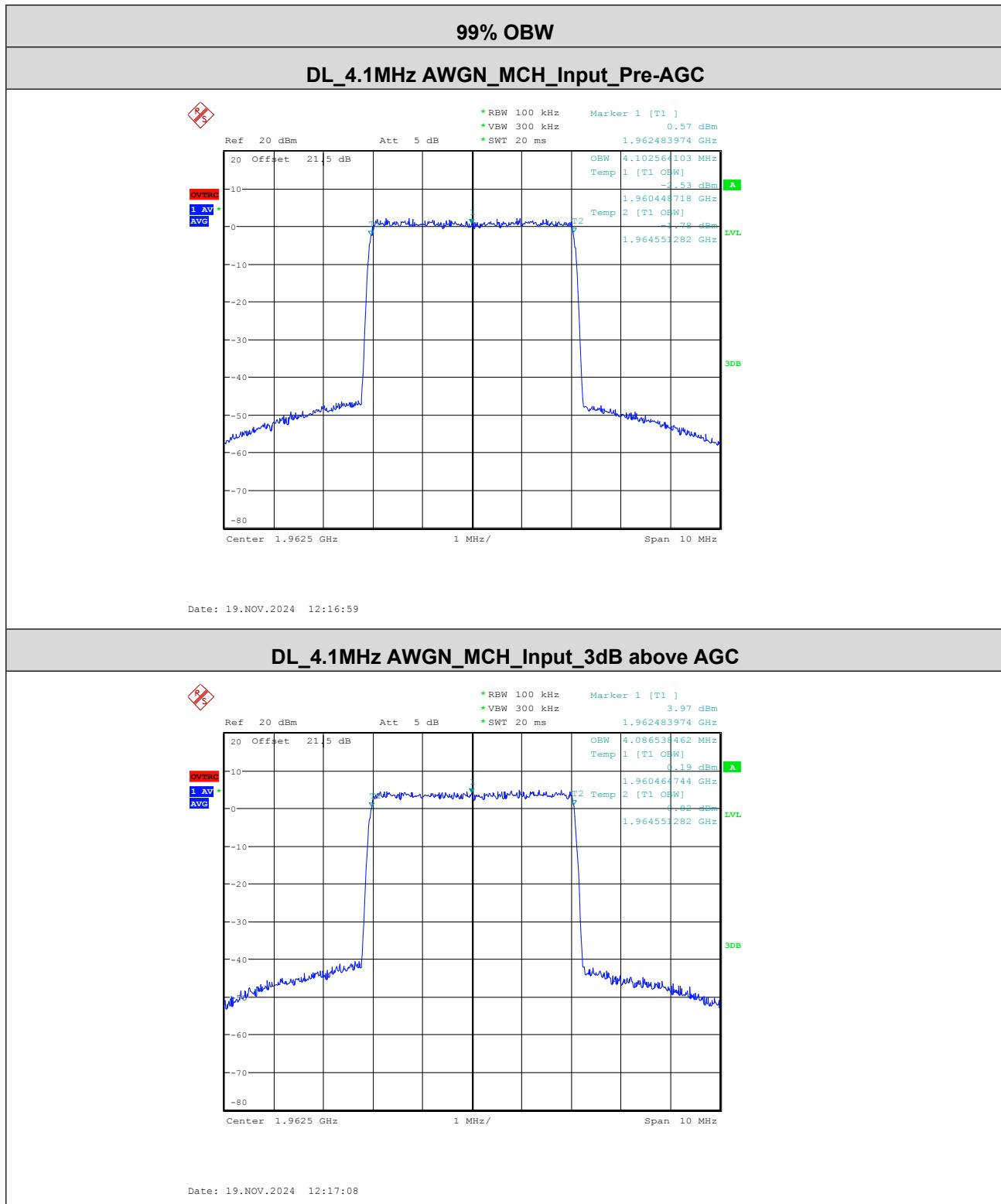
Remark:

1. * The band supports maximum single channel BW is 60MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
2. Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.



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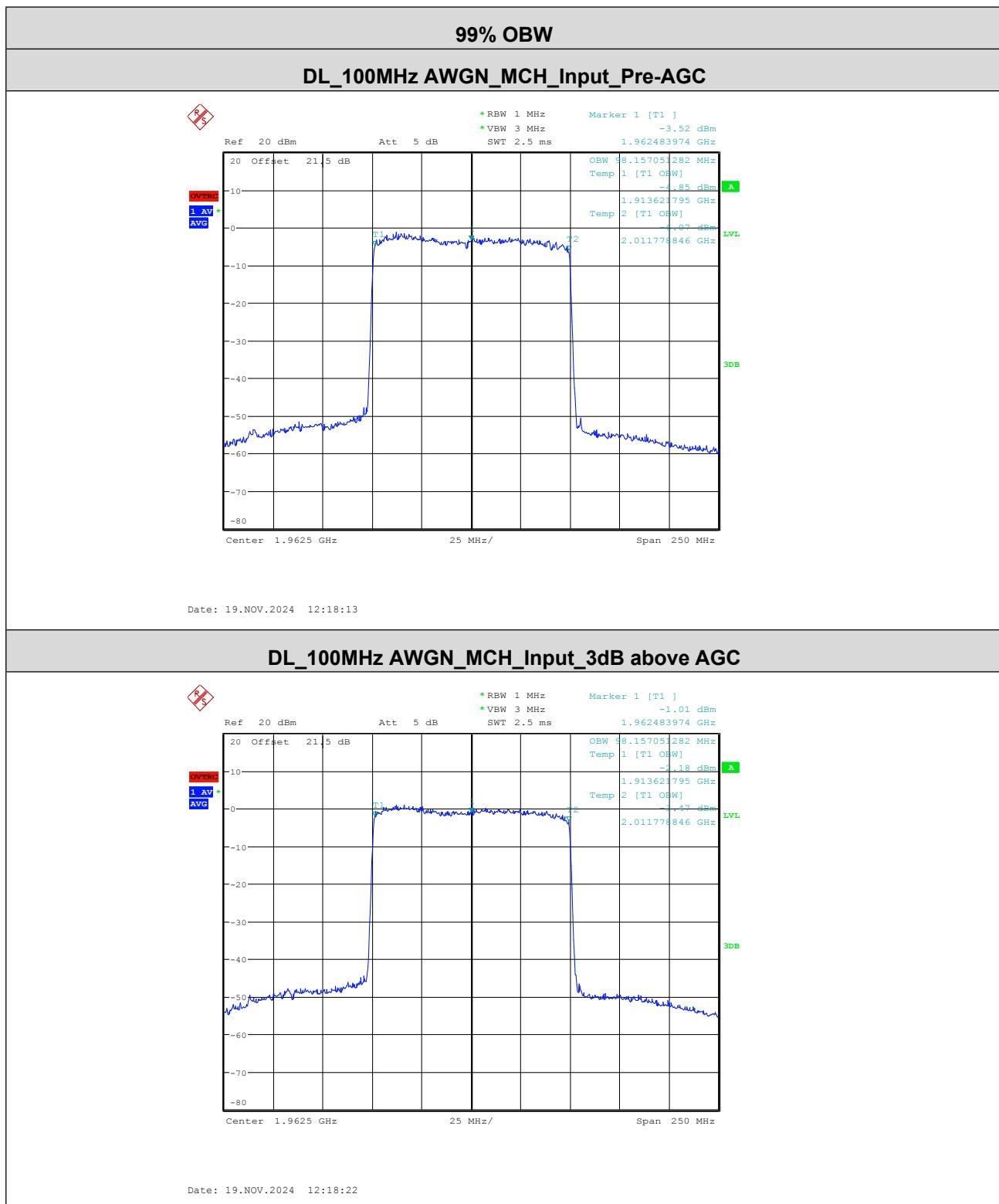
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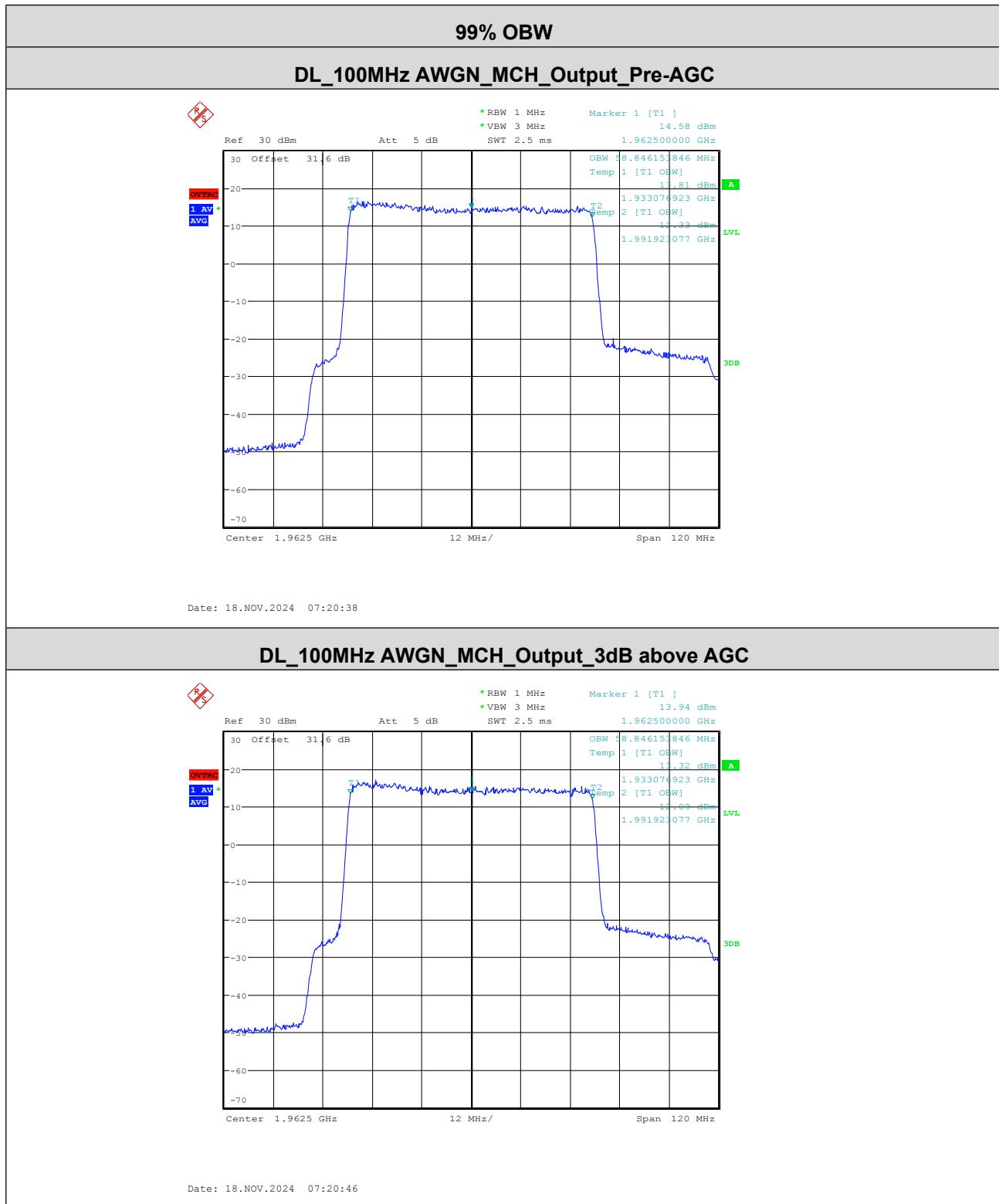
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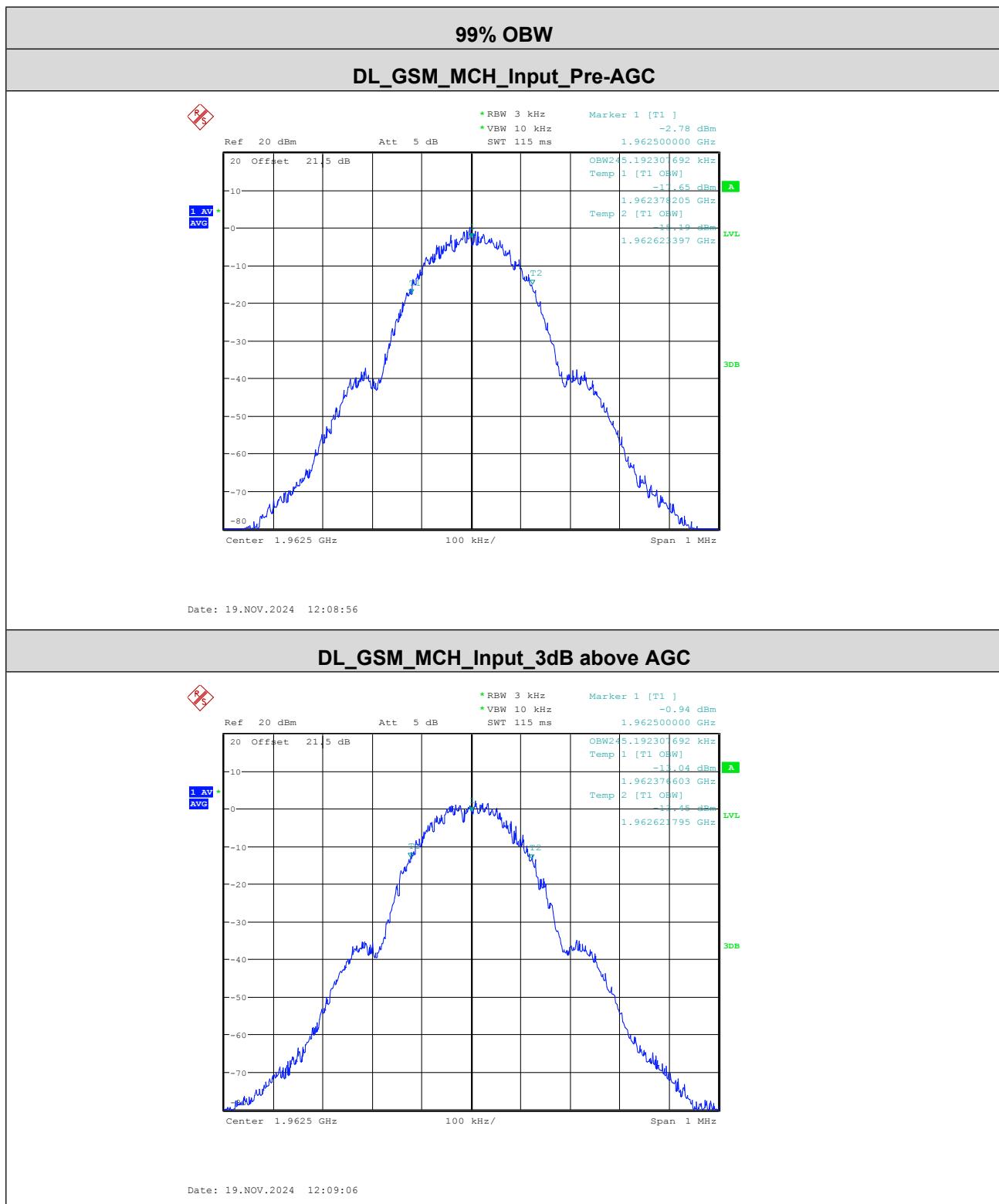
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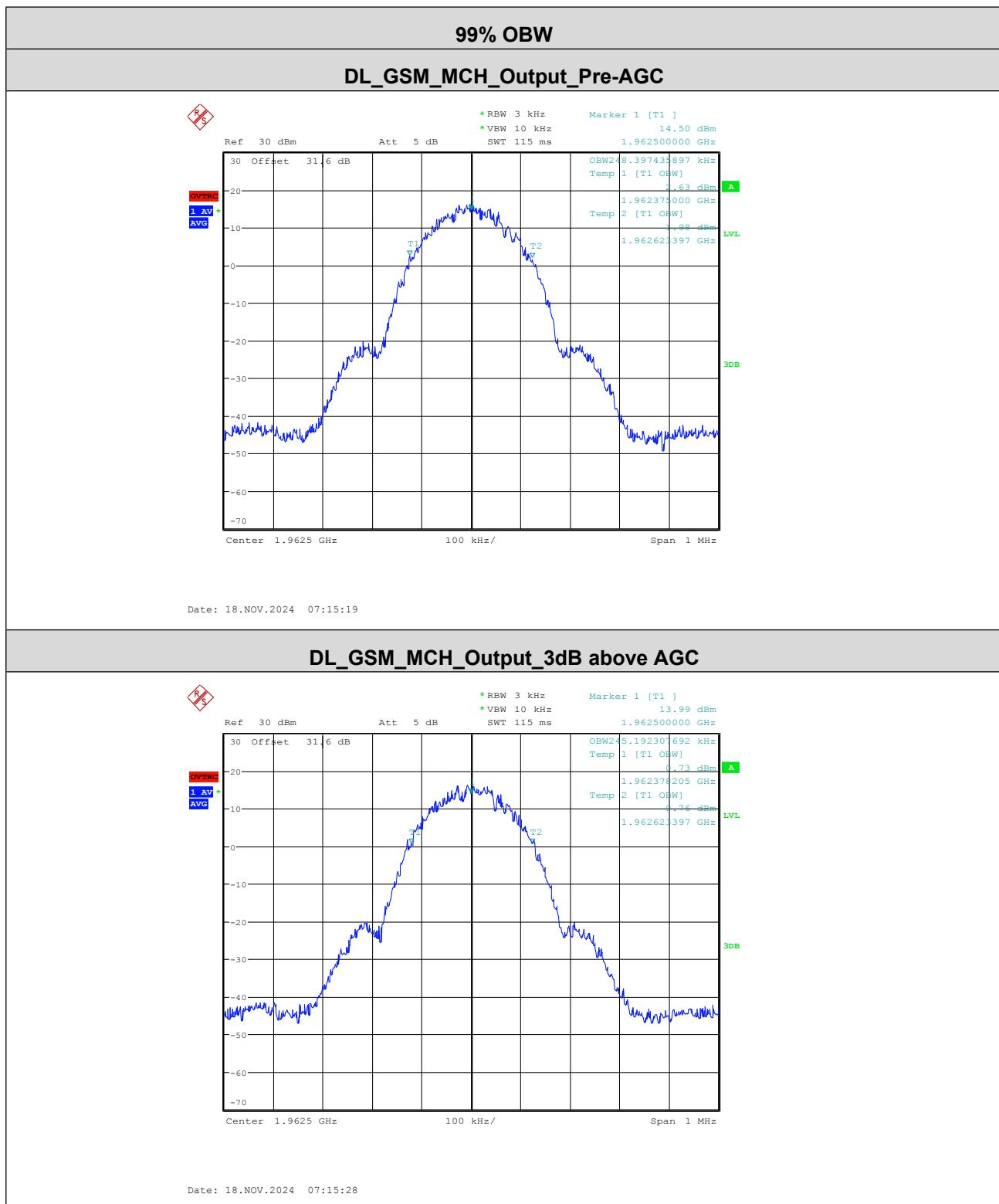
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3 Mean output power and amplifier/booster gain

Mean output power and gain								
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	EIRP (dBm)	EIRP (W)	Gain (dB)
DL	1937.0	4.1MHz AWGN	Pre-AGC	15	33.13	38.13	6.51	18.13
			3dB above AGC	18	33.43	38.43	6.97	/
		100MHz AWGN	Pre-AGC	15	33.14	38.14	6.52	18.14
			3dB above AGC	18	33.39	38.39	6.91	/
		GSM	Pre-AGC	15	34.10	39.10	8.13	19.10
			3dB above AGC	18	34.29	39.29	8.50	/

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (dBm/MHz)	EIRP (W/MHz)	Verdict
DL	1937.0	4.1MHz AWGN	Pre-AGC	26.12	31.12	1.30	PASS
			3dB above AGC	26.20	31.20	1.32	PASS
		100MHz AWGN	Pre-AGC	15.46	20.46	0.12	PASS
			3dB above AGC	15.69	20.69	0.12	PASS
		GSM	Pre-AGC	34.10	39.10	8.13	PASS
			3dB above AGC	34.29	39.29	8.50	PASS

Remark:

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer.
3. The output power is limited to an EIRP of 1640W/MHz.

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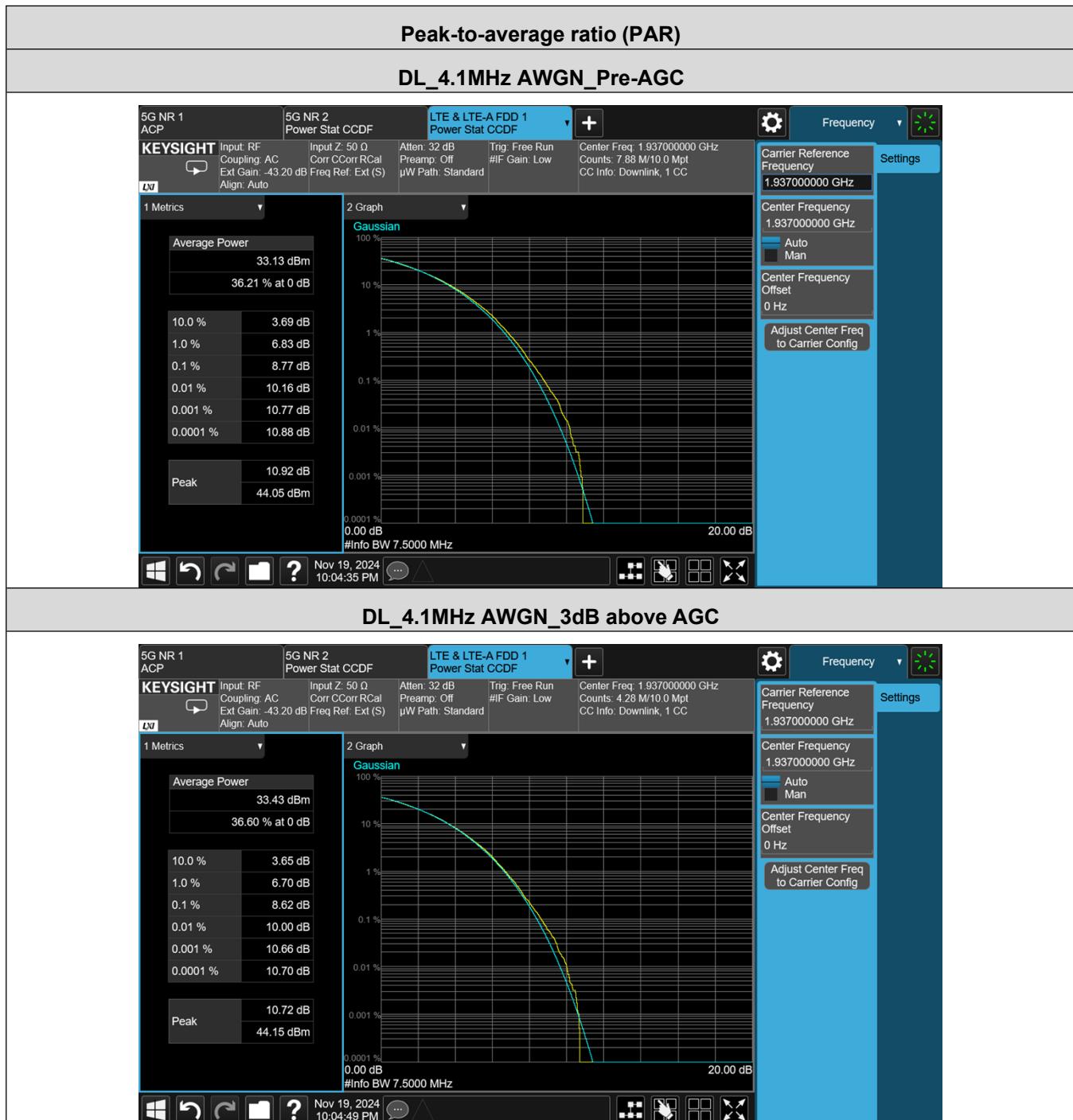
Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
DL	1937.0	4.1MHz AWGN	Pre-AGC	10.16	≤13	PASS
			3dB above AGC	10.00		PASS
		100MHz AWGN	Pre-AGC	10.06		PASS
			3dB above AGC	9.66		PASS

Remark:
The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN (pre-AGC) were record in the report for demonstrate PAR compliance.



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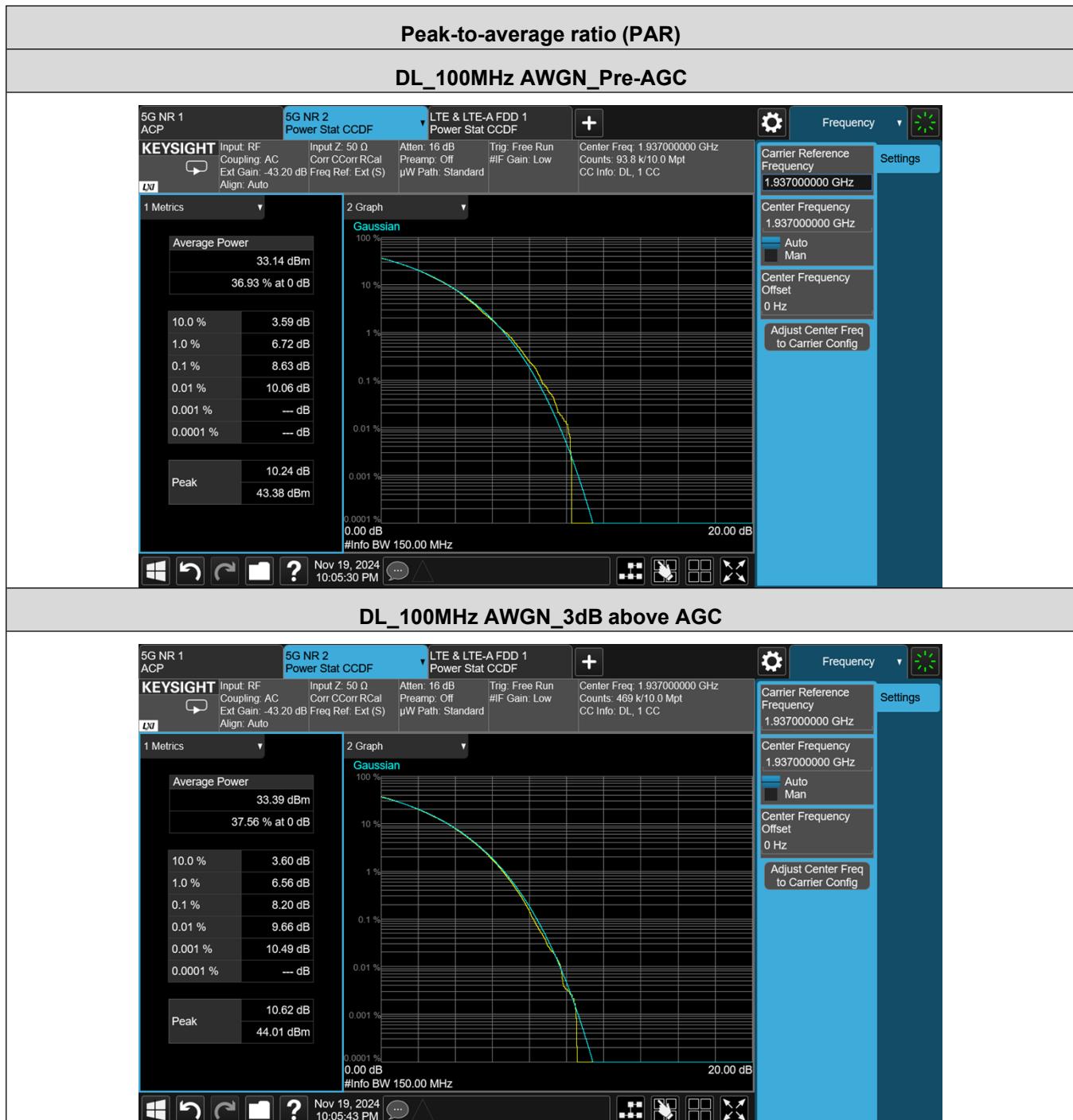
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4 Out-of-band/out-of-block(including intermodulation) emissions

Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict	
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-26.28	≤-13	PASS	
				3dB above AGC	-27.25		PASS	
			Two signals input	Pre-AGC	-28.76		PASS	
				3dB above AGC	-28.29		PASS	
	HCH		One signal input	Pre-AGC	-28.16		PASS	
				3dB above AGC	-28.36		PASS	
			Two signals input	Pre-AGC	-29.36		PASS	
				3dB above AGC	-28.79		PASS	
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-16.87	≤-13	PASS	
				3dB above AGC	-16.27		PASS	
	HCH		One signal input	Pre-AGC	-16.75		PASS	
				3dB above AGC	-16.20		PASS	
DL	LCH	GSM	One signal input	Pre-AGC	-18.42	≤-13	PASS	
				3dB above AGC	-18.53		PASS	
			Two signals input	Pre-AGC	-20.69		PASS	
				3dB above AGC	-21.61		PASS	
	HCH		One signal input	Pre-AGC	-23.21		PASS	
				3dB above AGC	-21.98		PASS	
			Two signals input	Pre-AGC	-21.22		PASS	
				3dB above AGC	-21.39		PASS	

Remark:

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,

$$P = 33 \text{ dBm} = 2 \text{ W}$$

the limit = 33dBm- [43+ 10log10(2W)]dB = -13dBm

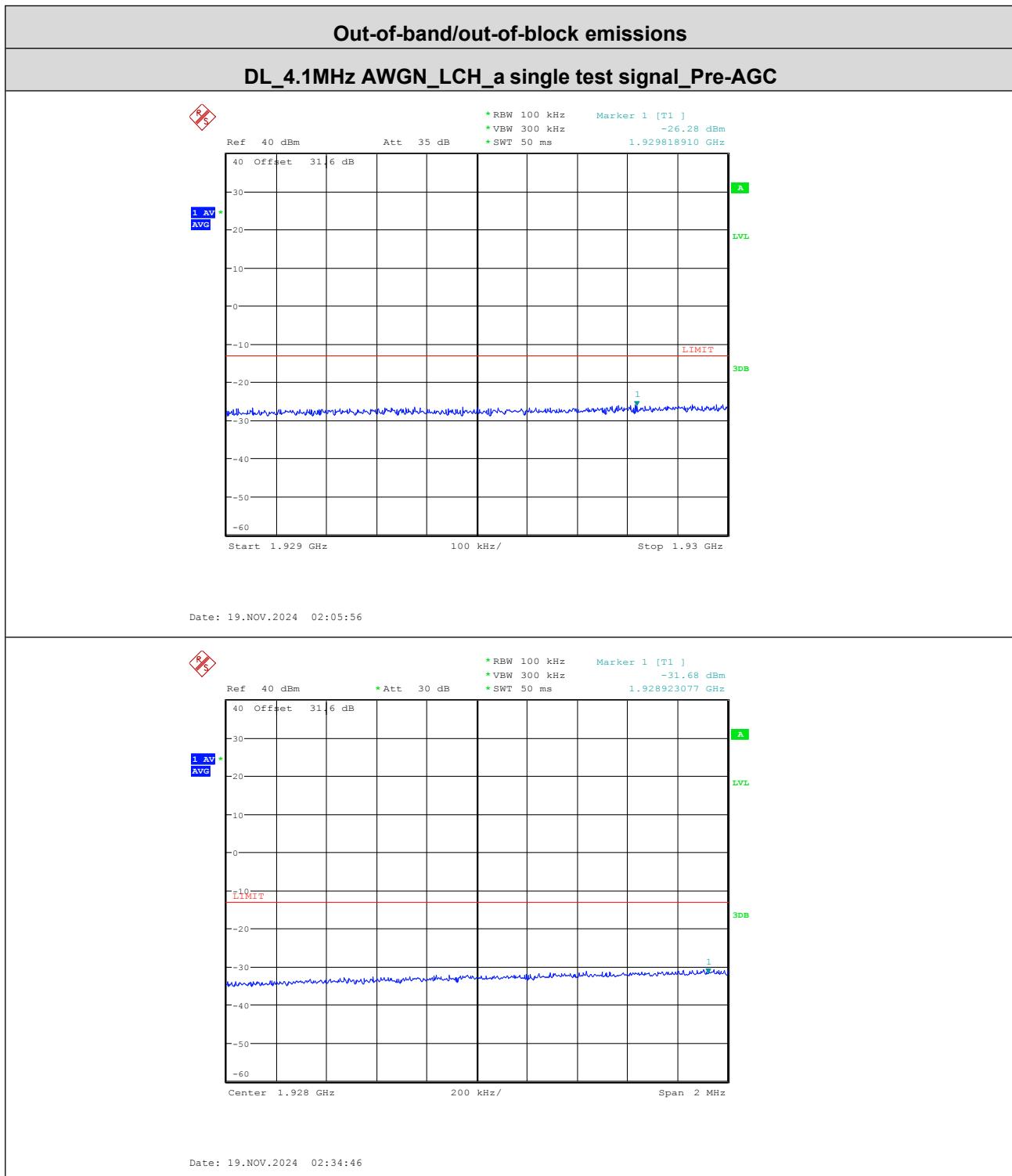
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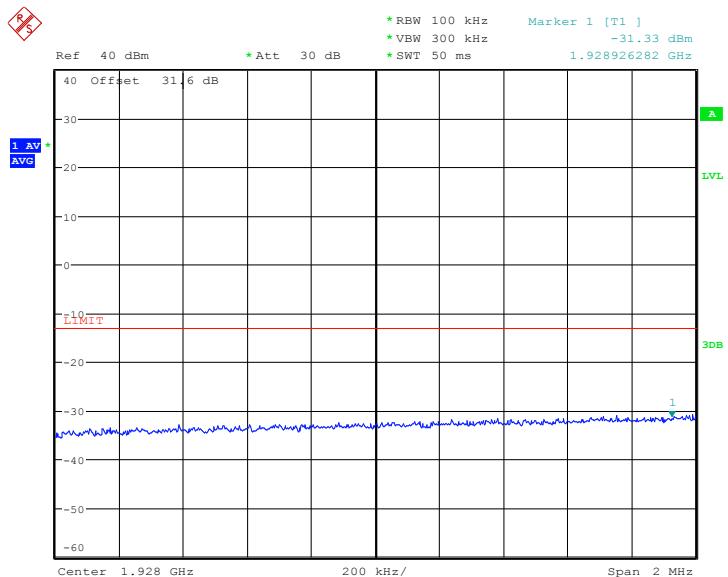
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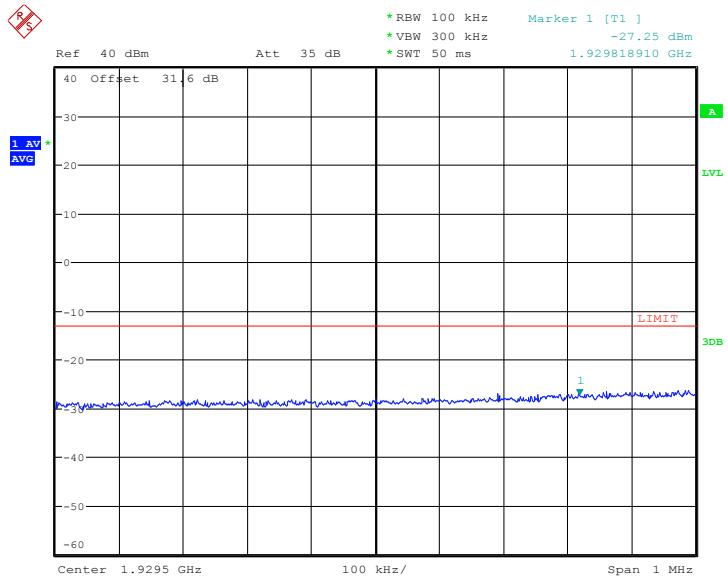


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Out-of-band/out-of-block emissions
DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC


Date: 19.NOV.2024 02:34:55



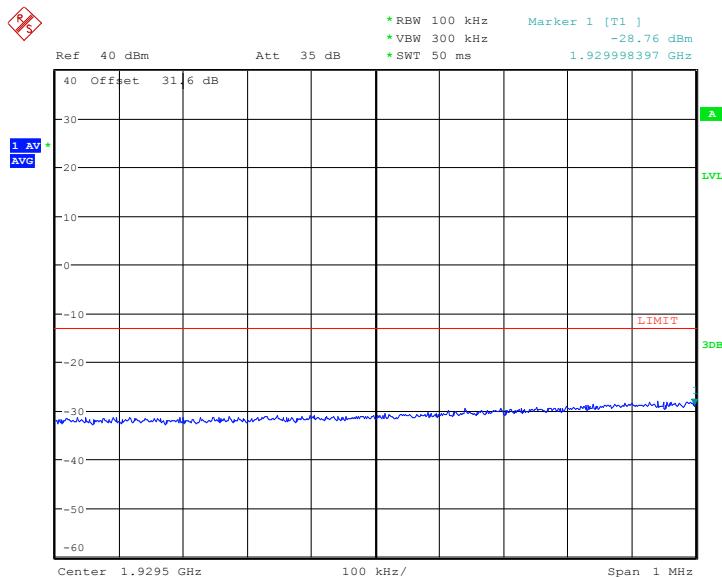
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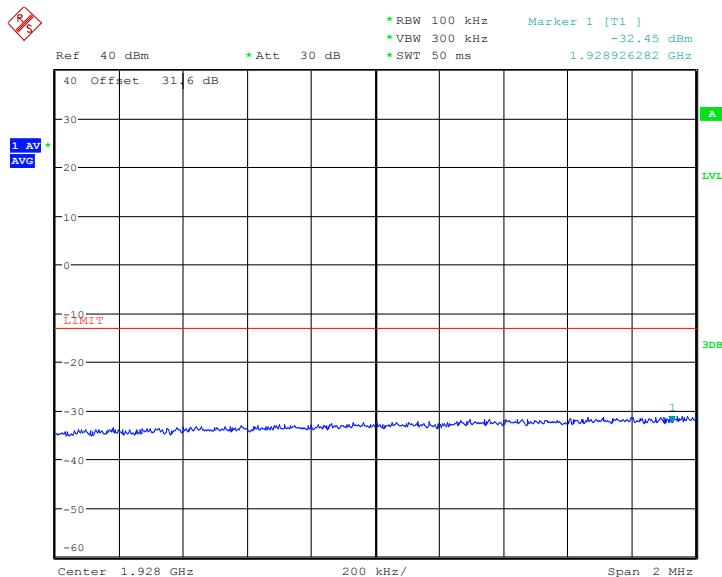
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Out-of-band/out-of-block emissions**DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC**

Date: 19.NOV.2024 02:06:44

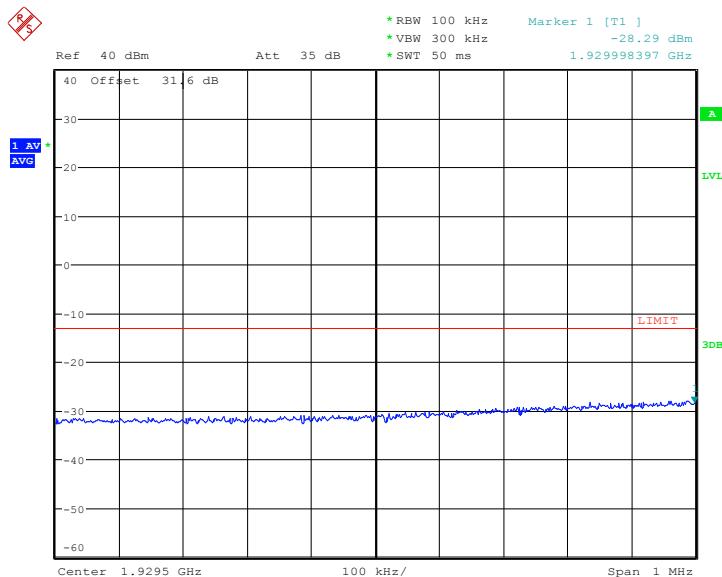


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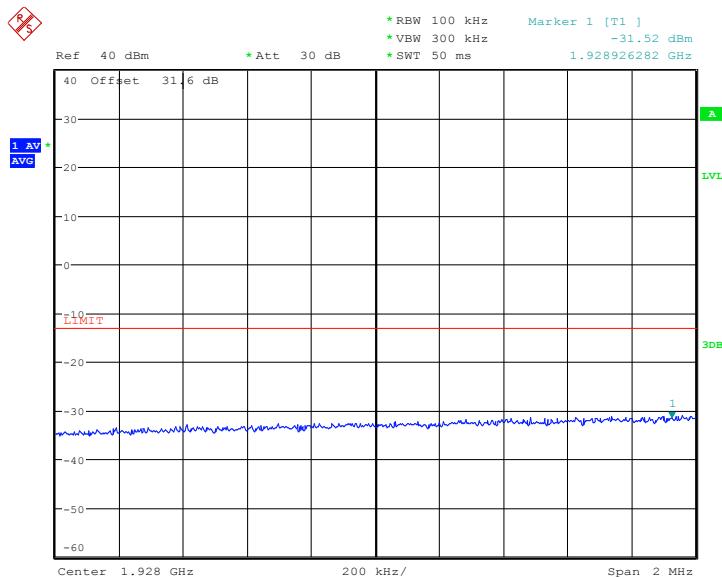


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Out-of-band/out-of-block emissions
DL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC


Date: 19.NOV.2024 02:06:49

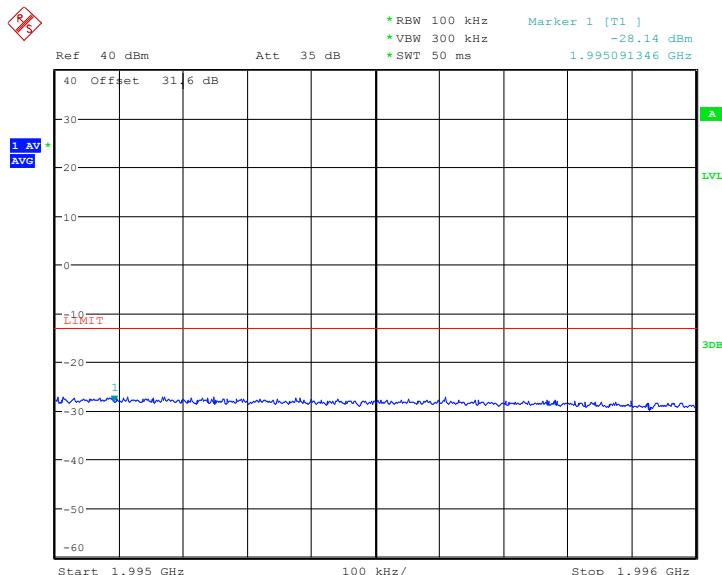


Date: 19.NOV.2024 02:35:08

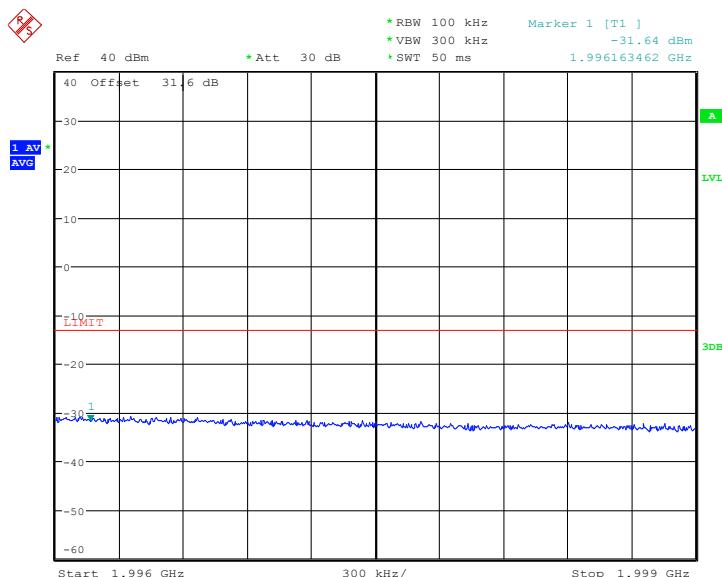


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Out-of-band/out-of-block emissions**DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC**

Date: 19.NOV.2024 02:07:43



Date: 19.NOV.2024 02:32:13

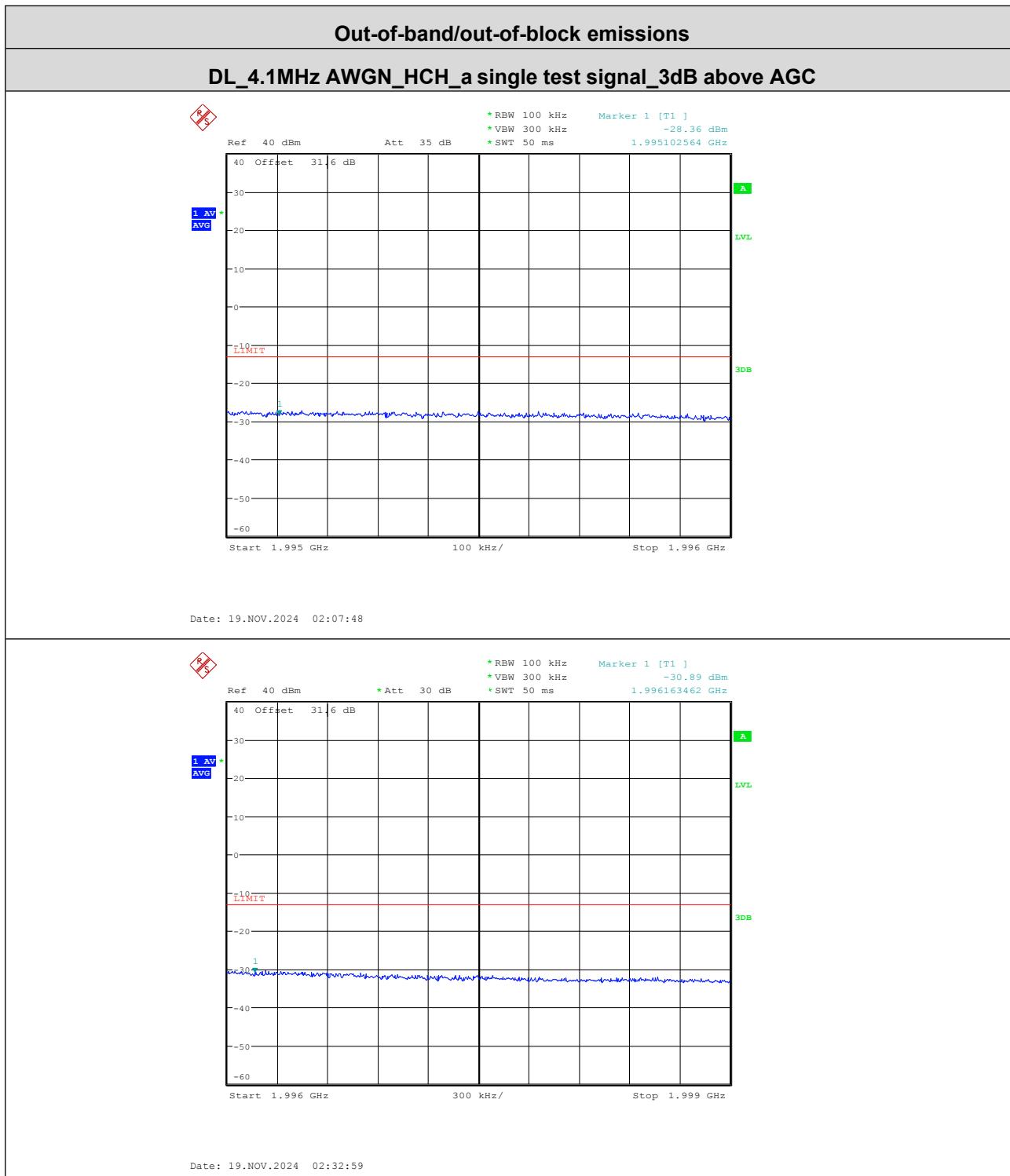
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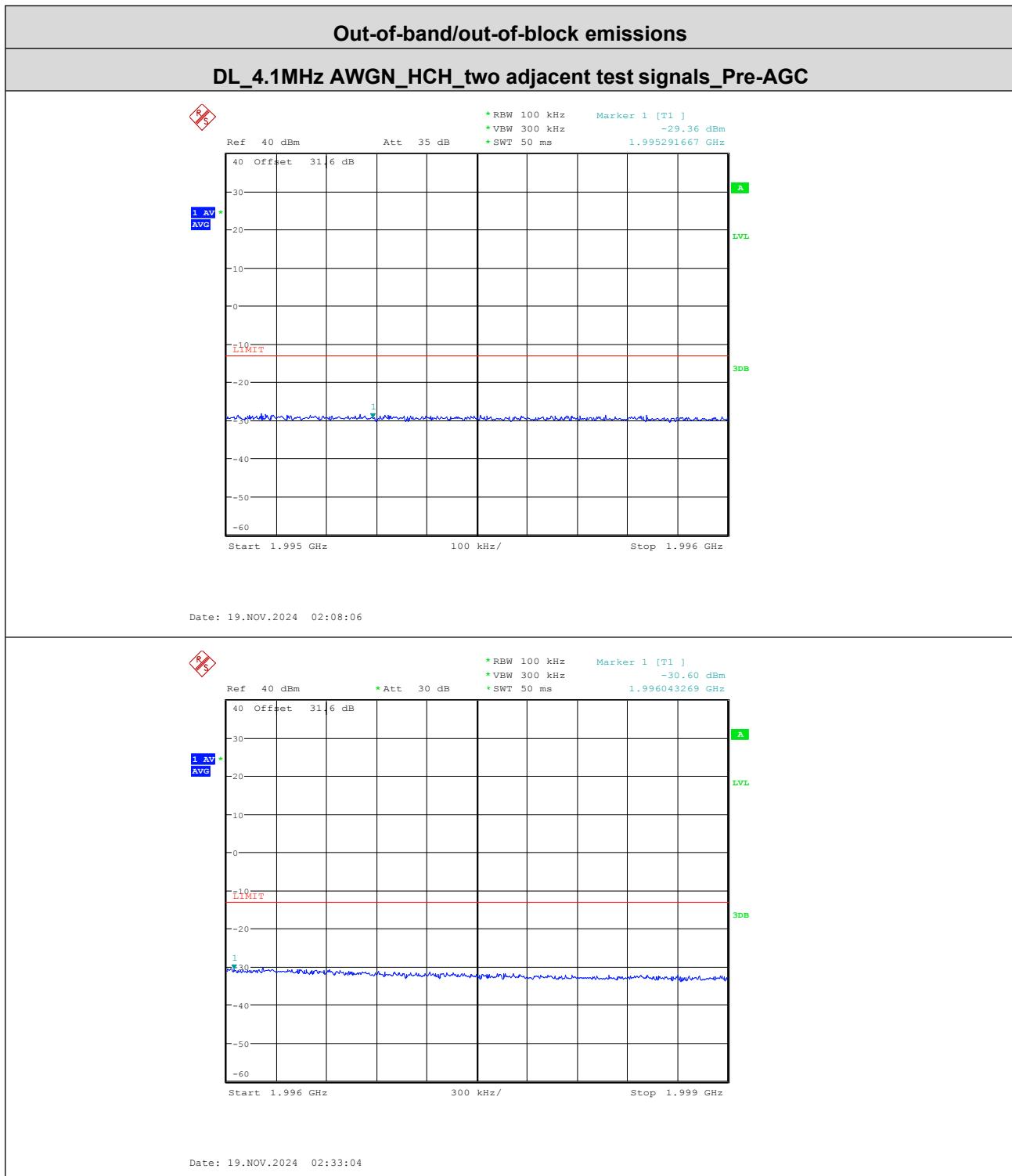
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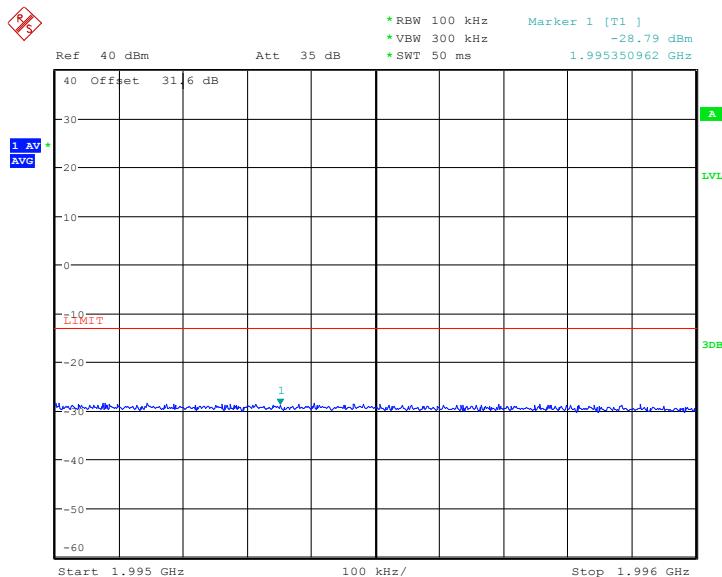


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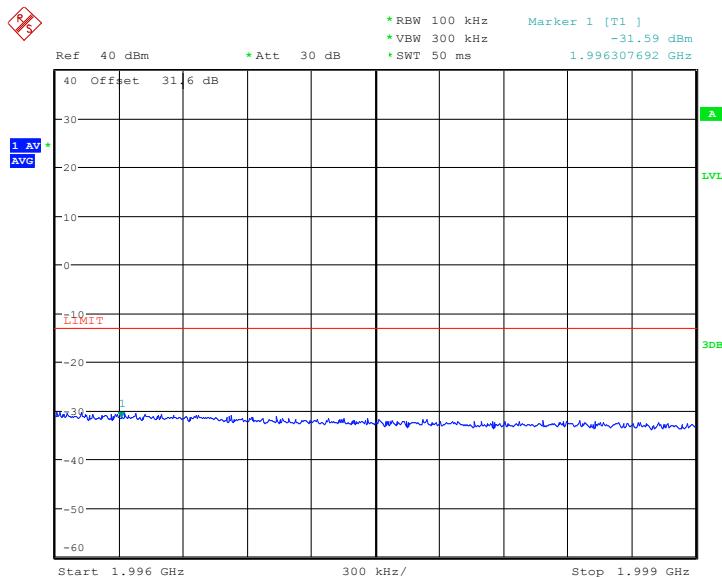
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



Date: 19.NOV.2024 02:08:17



Date: 19.NOV.2024 02:33:09

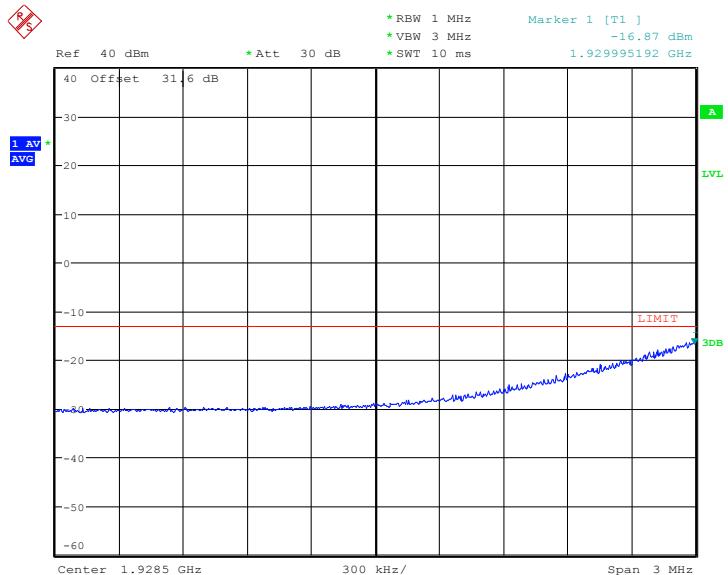
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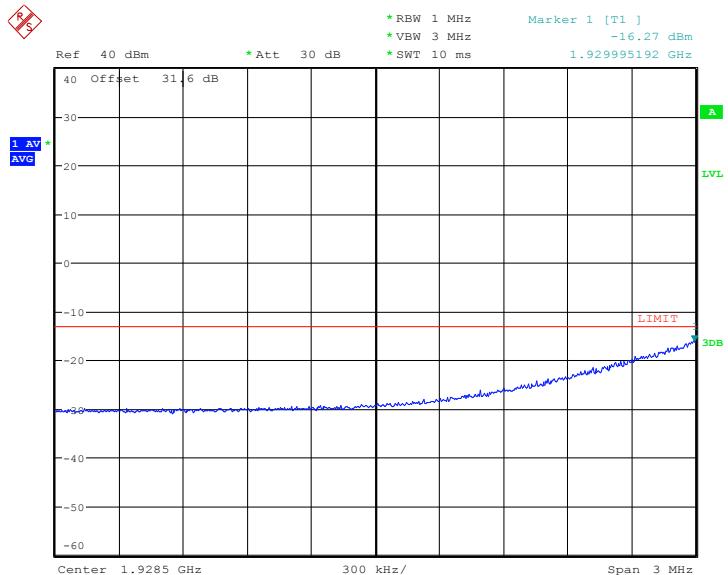


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Out-of-band/out-of-block emissions**DL_100MHz AWGN_LCH_a single test signal_Pre-AGC**

Date: 19.NOV.2024 03:13:58

DL_100MHz AWGN_LCH_a single test signal_3dB above AGC

Date: 19.NOV.2024 03:14:02

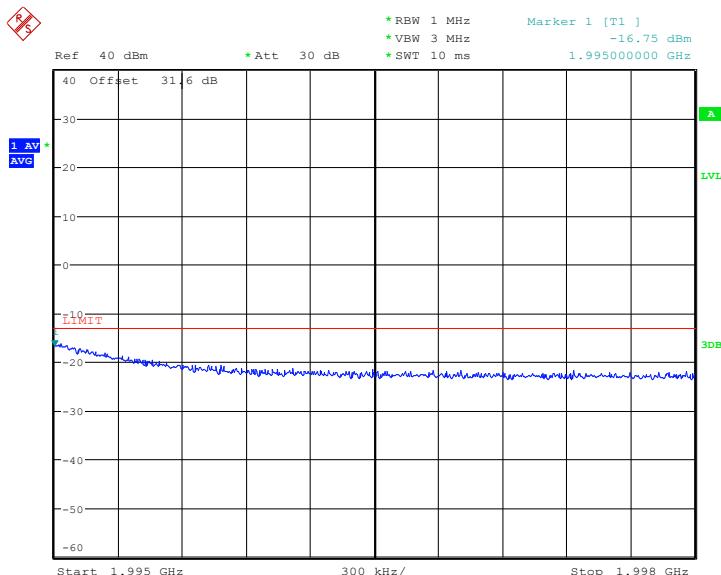
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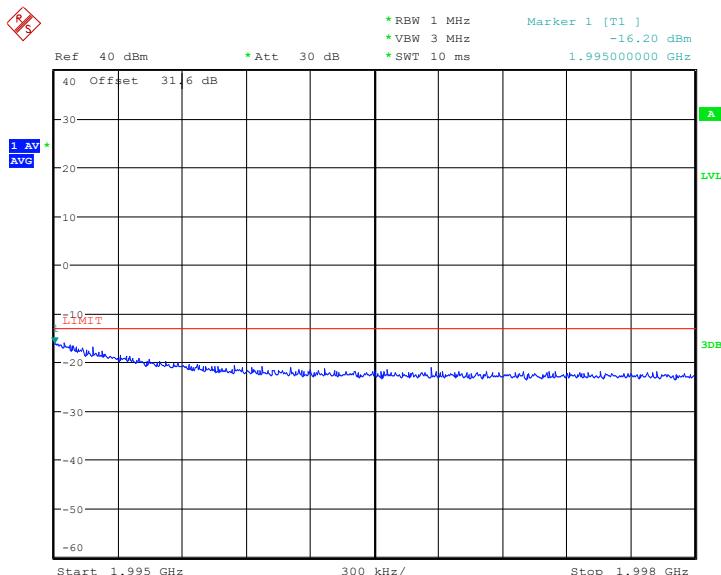


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Out-of-band/out-of-block emissions**DL_100MHz AWGN_HCH_a single test signal_Pre-AGC**

Date: 19.NOV.2024 03:15:36

DL_100MHz AWGN_HCH_a single test signal_3dB above AGC

Date: 19.NOV.2024 03:15:40

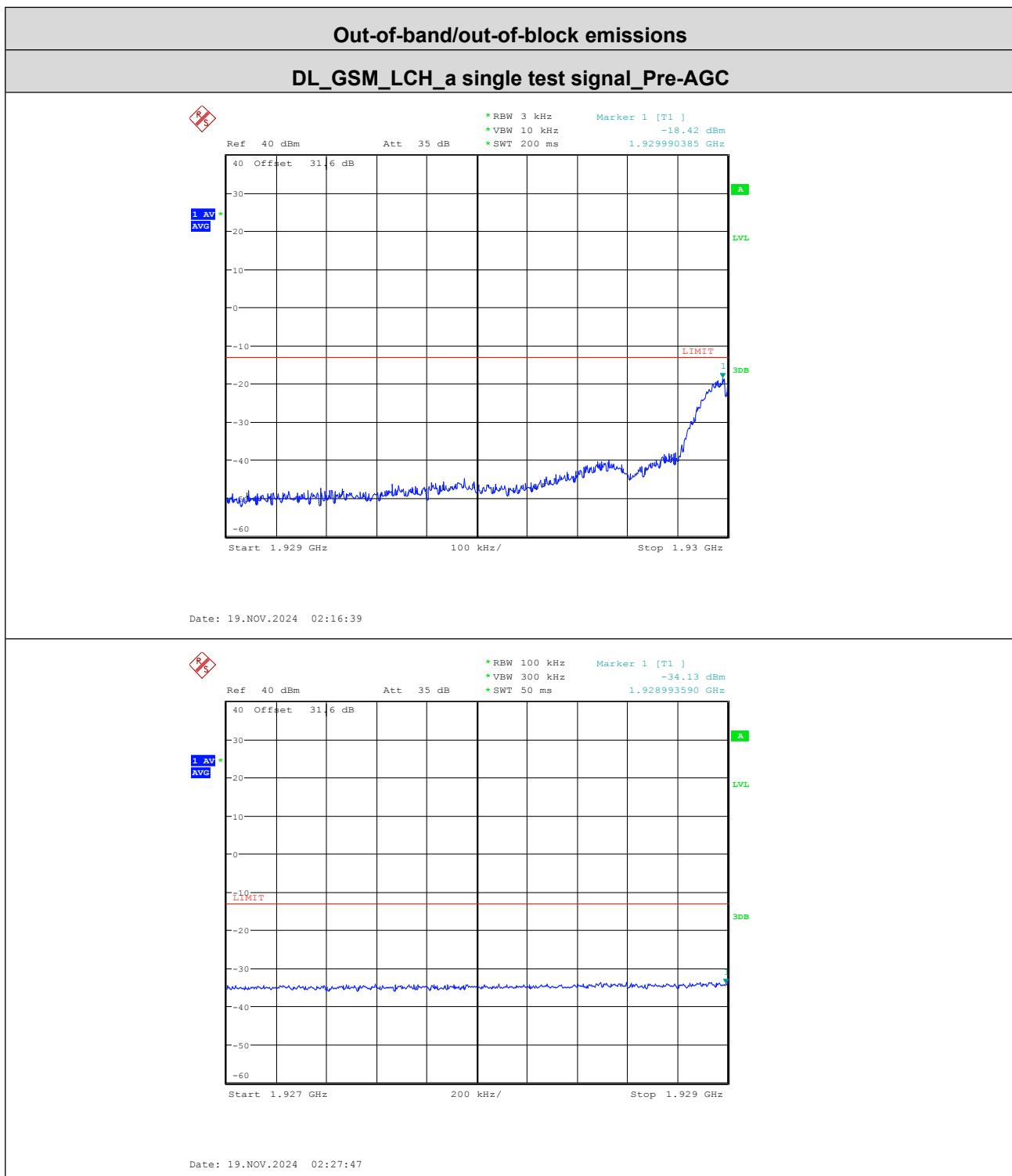
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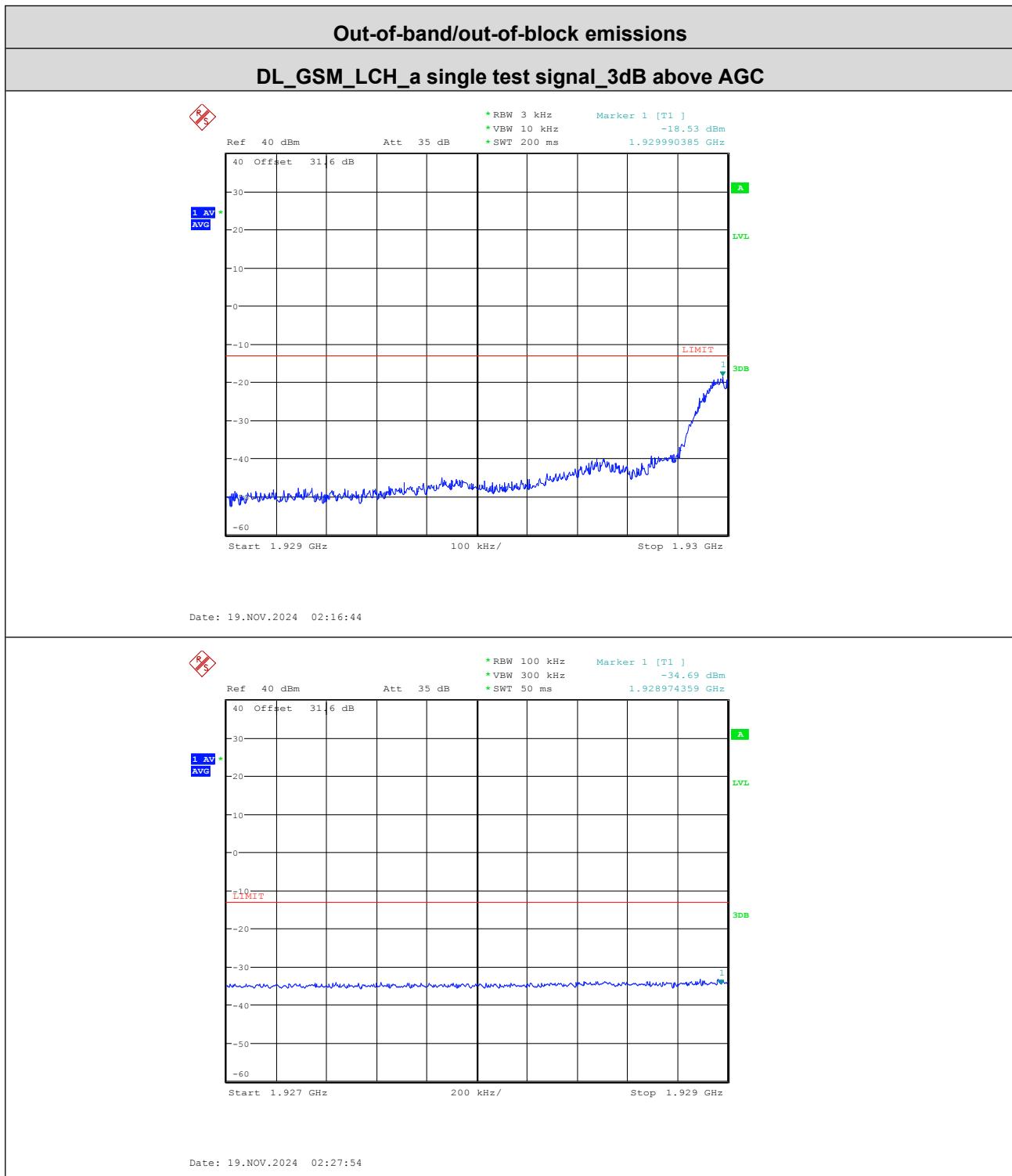


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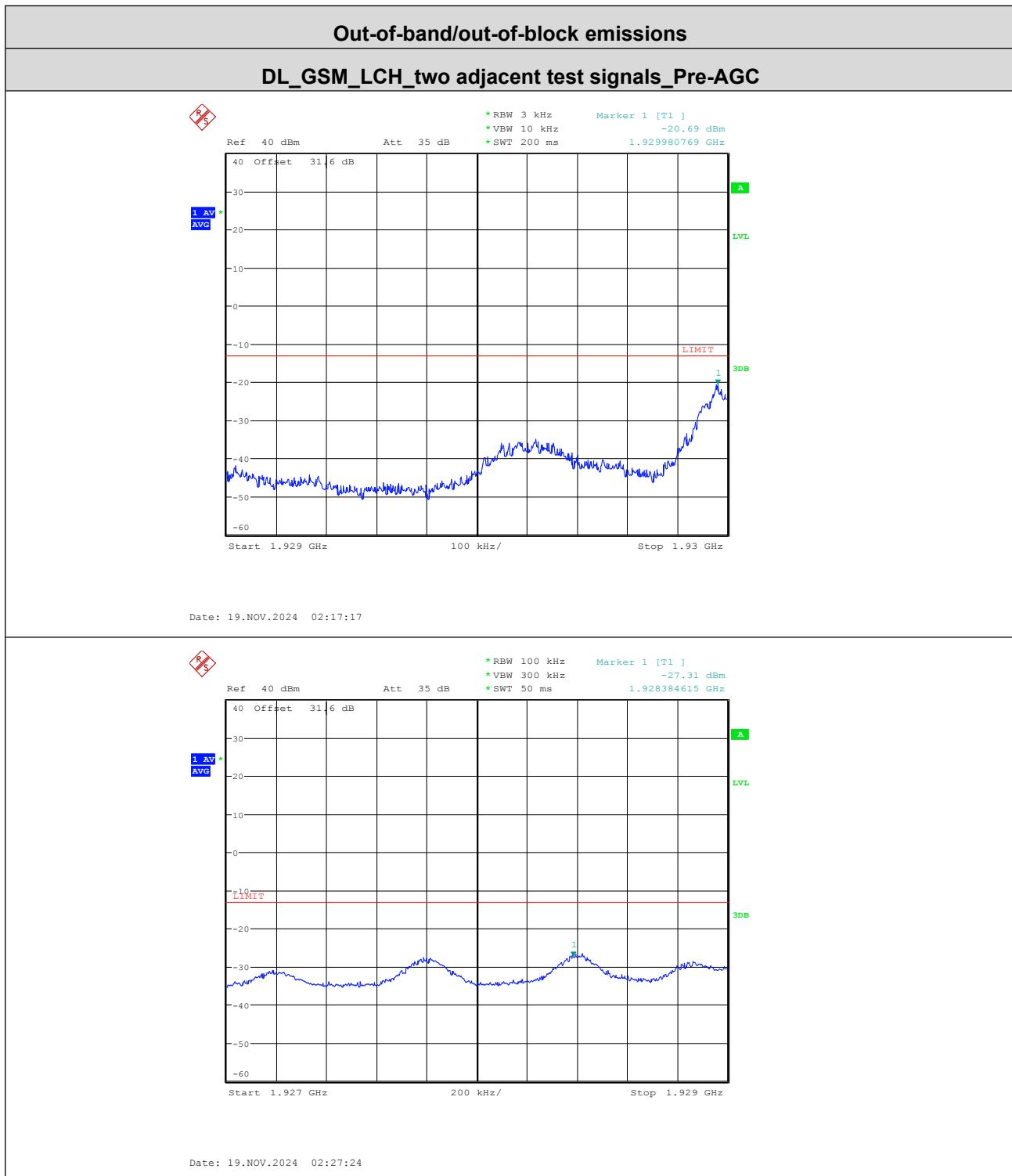
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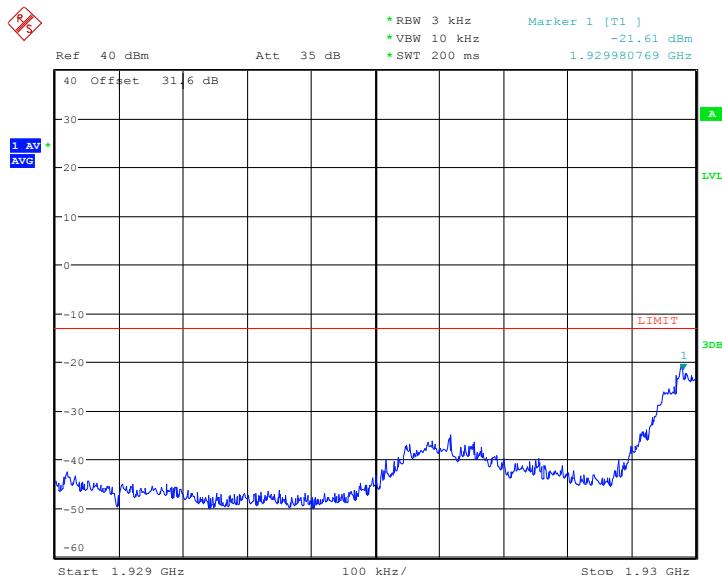
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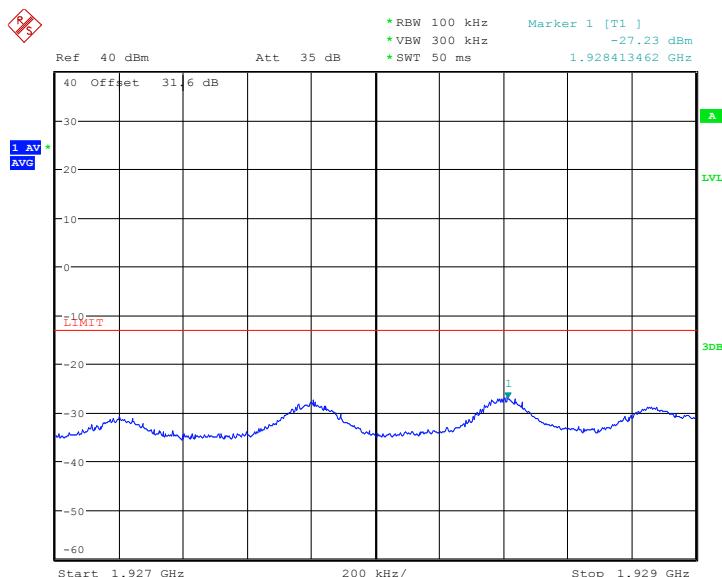


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Out-of-band/out-of-block emissions**DL_GSM_LCH_two adjacent test signals_3dB above AGC**

Date: 19.NOV.2024 02:17:23



Date: 19.NOV.2024 02:27:29

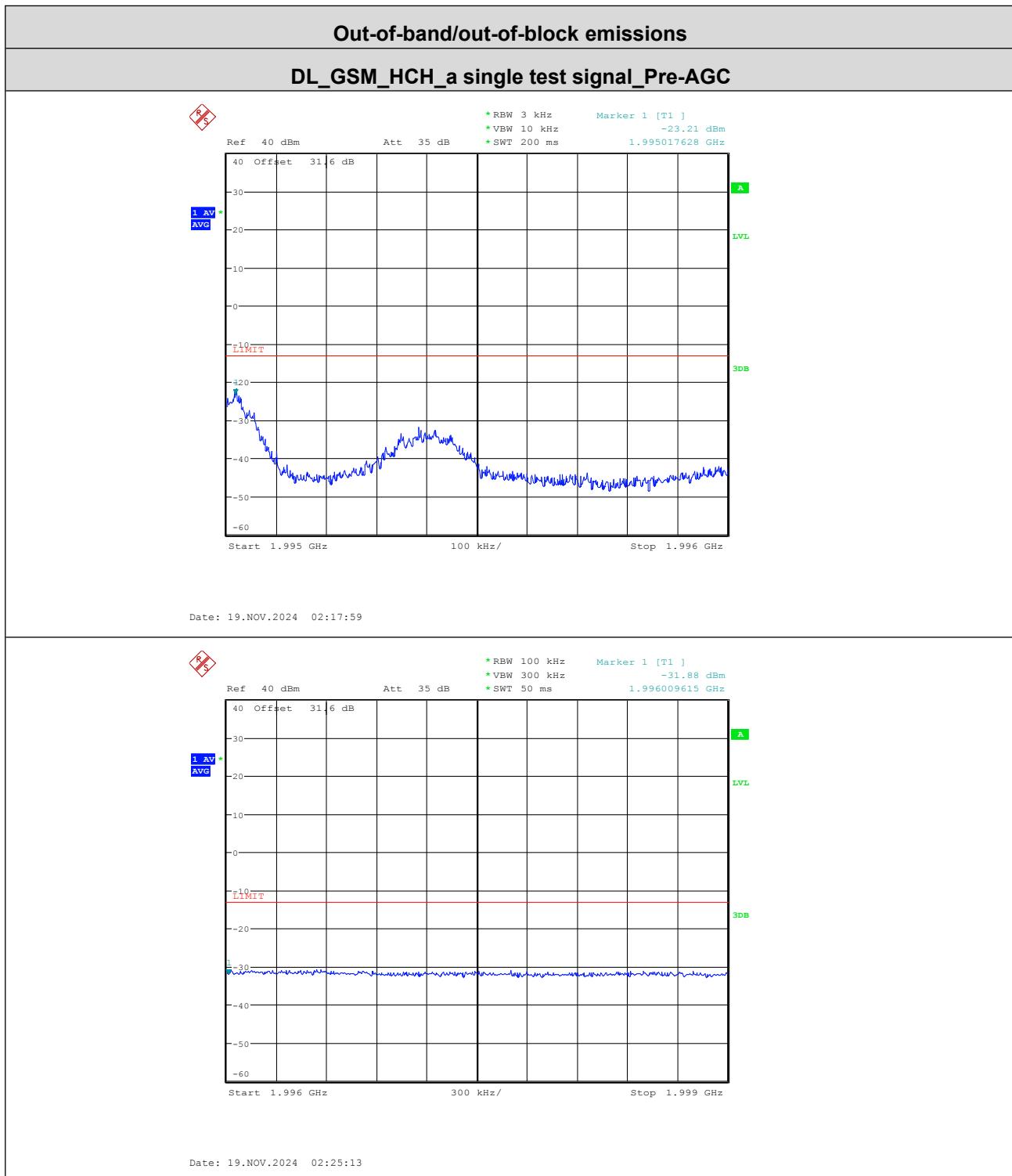
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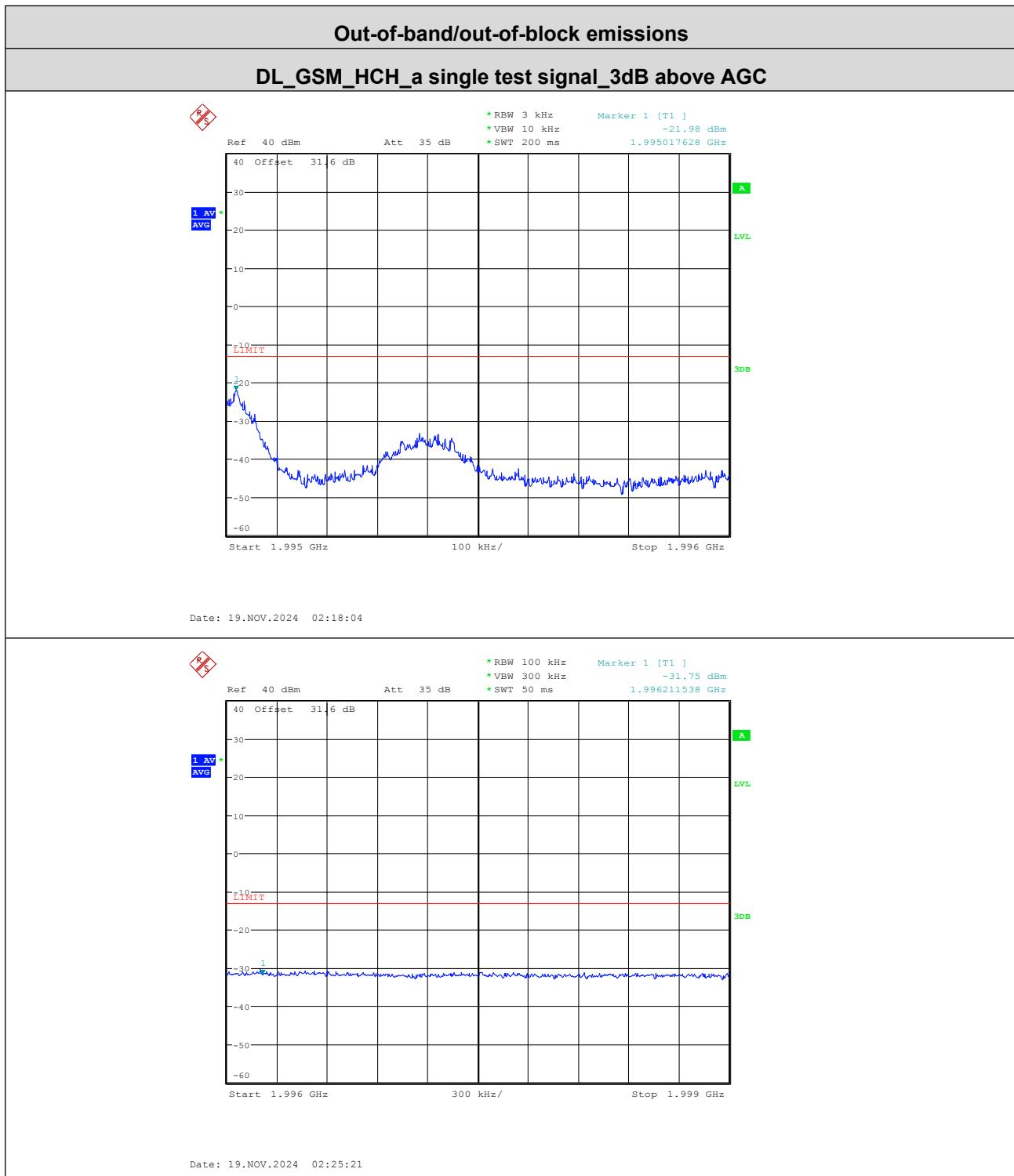
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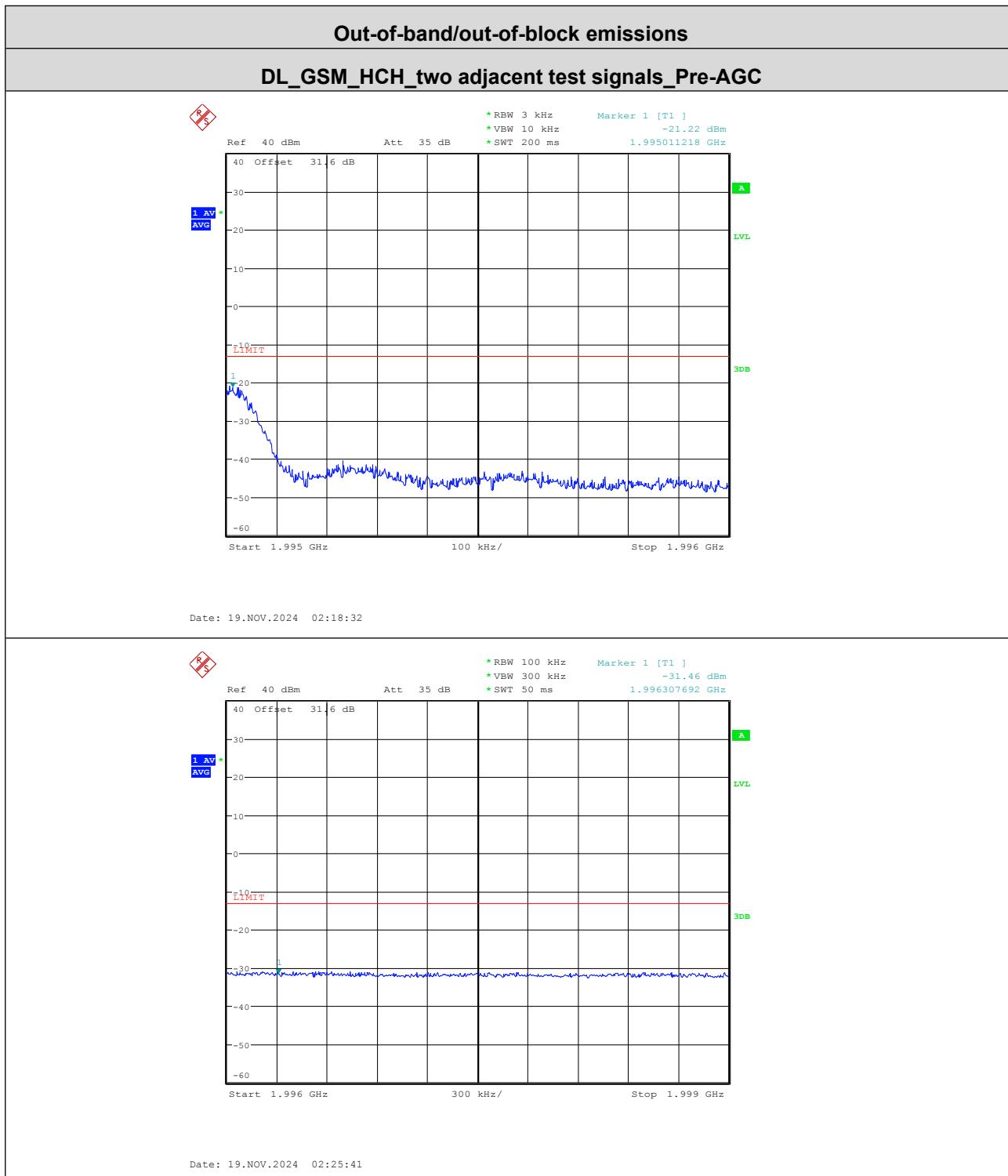
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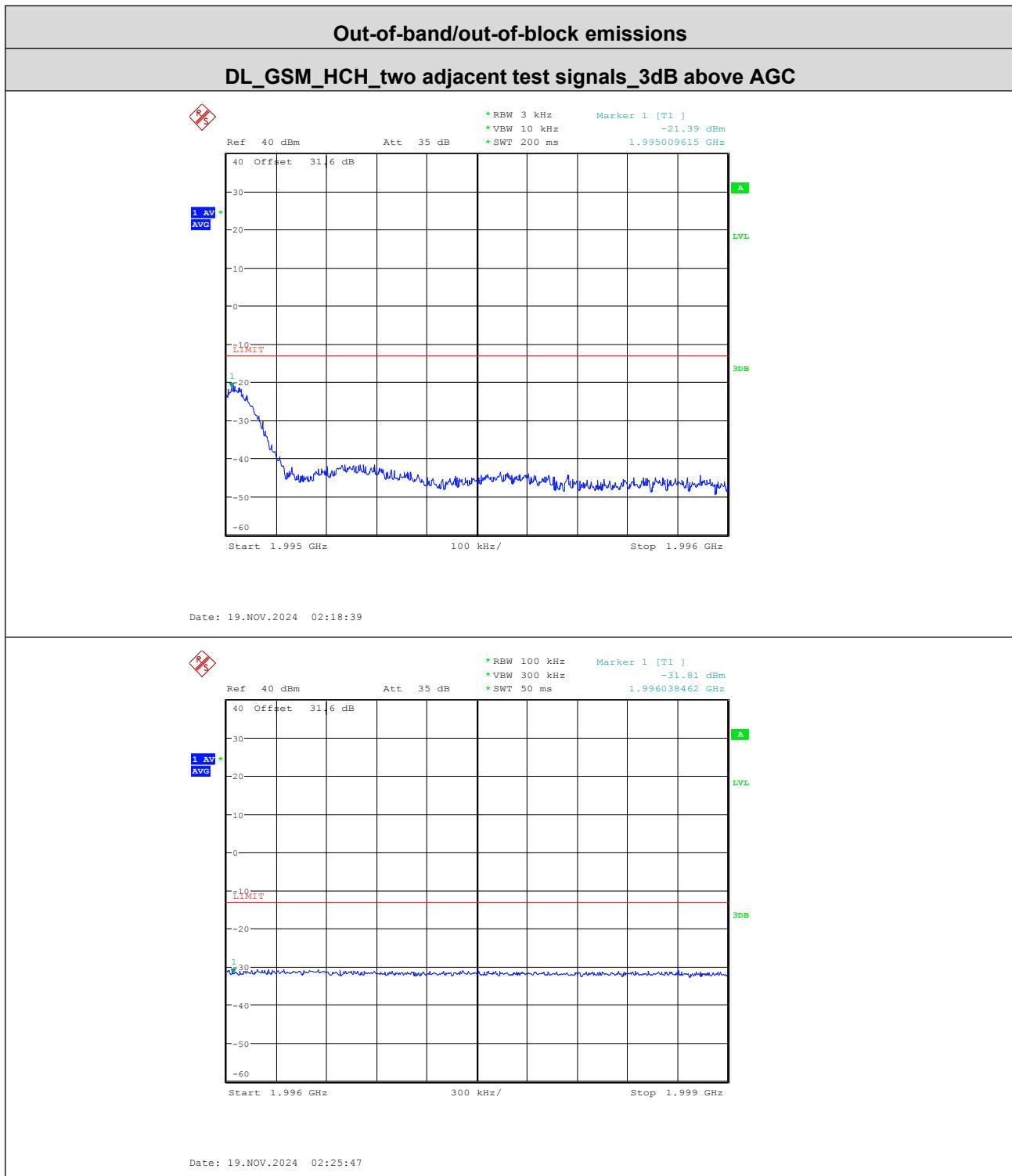
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5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	4.1MHz AWGN	LCH	0.09-1000	-38.23	≤-13	PASS
			1000-1929	-16.11	≤-13	PASS
		HCH	1996-19950	-15.77	≤-13	PASS

Remark:

1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,
 $P = 33\text{dBm} = 2\text{W}$
 $\text{limit} = 33\text{dBm} - [43 + 10\log_{10}(2\text{W})]\text{dB} = -13\text{dBm}$
2. All modes (LCH/MCH/HCH, with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.

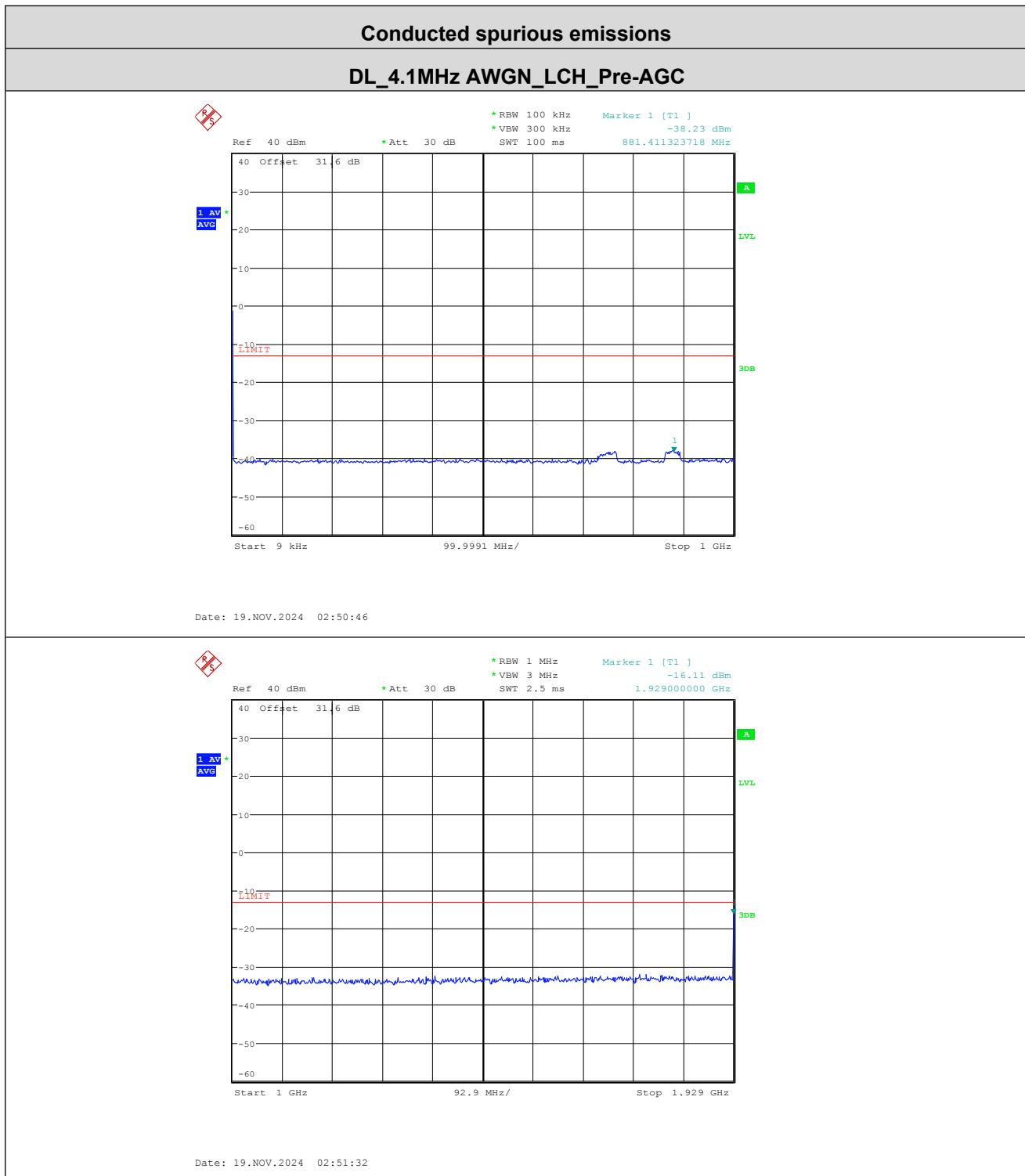
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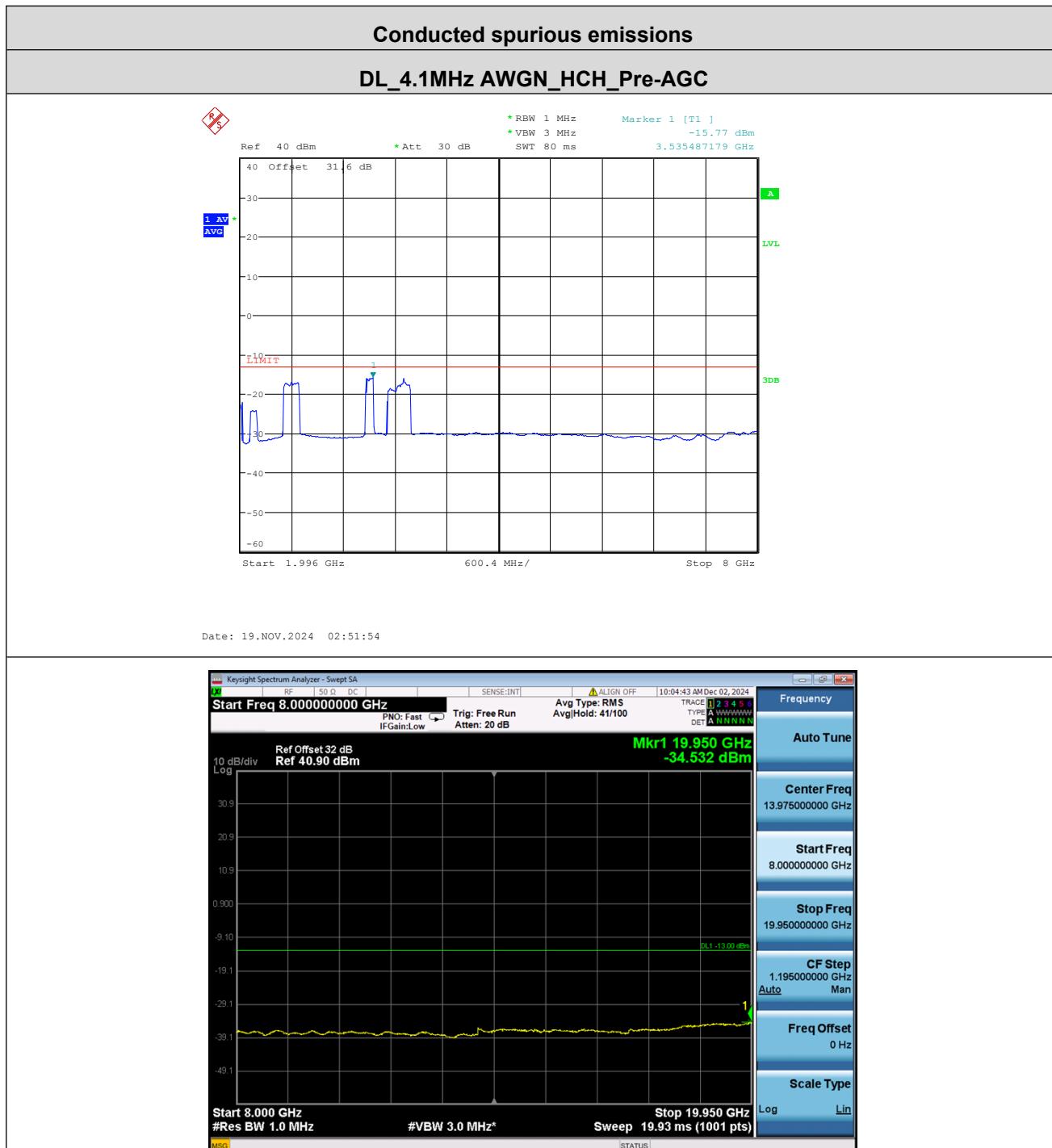
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6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperatur e	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	11.6	0.00591	PASS
			TN	VH	9.8	0.00499	PASS
		100MHz AWGN	TN	VL	14.1	0.00718	PASS
			TN	VH	13.9	0.00708	PASS
		GSM	TN	VL	13.2	0.00673	PASS
			TN	VH	11.4	0.00581	PASS



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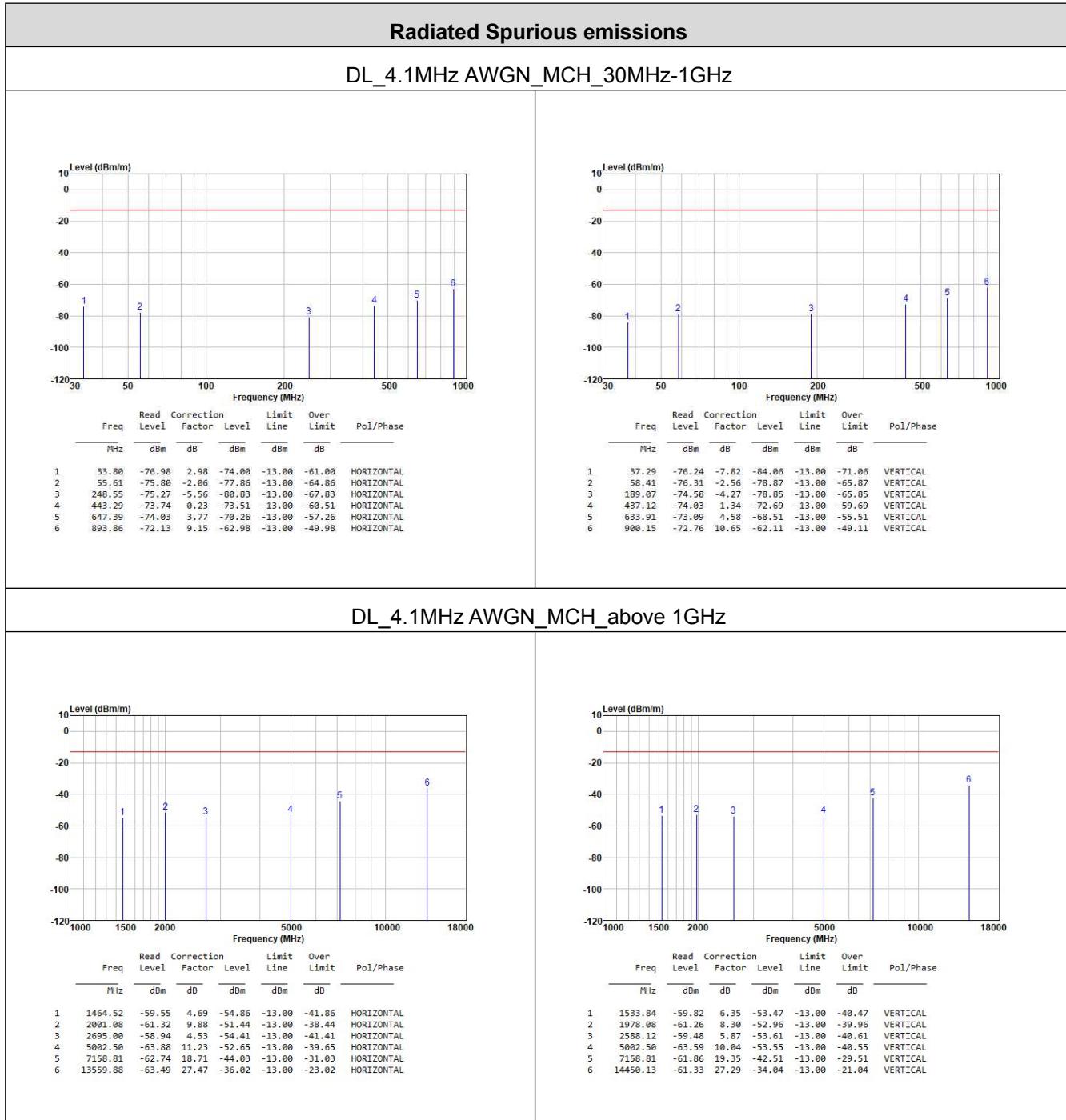
Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	VN	+50	14.8	0.00754	PASS
			VN	+40	15.4	0.00785	PASS
			VN	+30	11.0	0.00561	PASS
			VN	+20	14.3	0.00729	PASS
			VN	+10	13.6	0.00693	PASS
			VN	0	11.9	0.00606	PASS
			VN	-10	13.6	0.00693	PASS
			VN	-20	11.3	0.00576	PASS
			VN	-30	13.5	0.00688	PASS
	MCH	100MHz AWGN	VN	+50	13.9	0.00708	PASS
			VN	+40	9.9	0.00504	PASS
			VN	+30	14.4	0.00734	PASS
			VN	+20	15.0	0.00764	PASS
			VN	+10	13.9	0.00708	PASS
			VN	0	16.1	0.00820	PASS
			VN	-10	9.5	0.00484	PASS
			VN	-20	9.3	0.00474	PASS
			VN	-30	14.6	0.00744	PASS
UL	MCH	GSM	VN	+50	10.6	0.00540	PASS
			VN	+40	11.7	0.00596	PASS
			VN	+30	15.9	0.00810	PASS
			VN	+20	14.3	0.00729	PASS
			VN	+10	12.2	0.00622	PASS
			VN	0	15.6	0.00795	PASS
			VN	-10	13.5	0.00688	PASS
			VN	-20	11.9	0.00606	PASS
			VN	-30	13.3	0.00678	PASS

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7 Radiated Spurious emissions



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Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

--End of Appendix--

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