

Appendix -

Test Data and Result for report

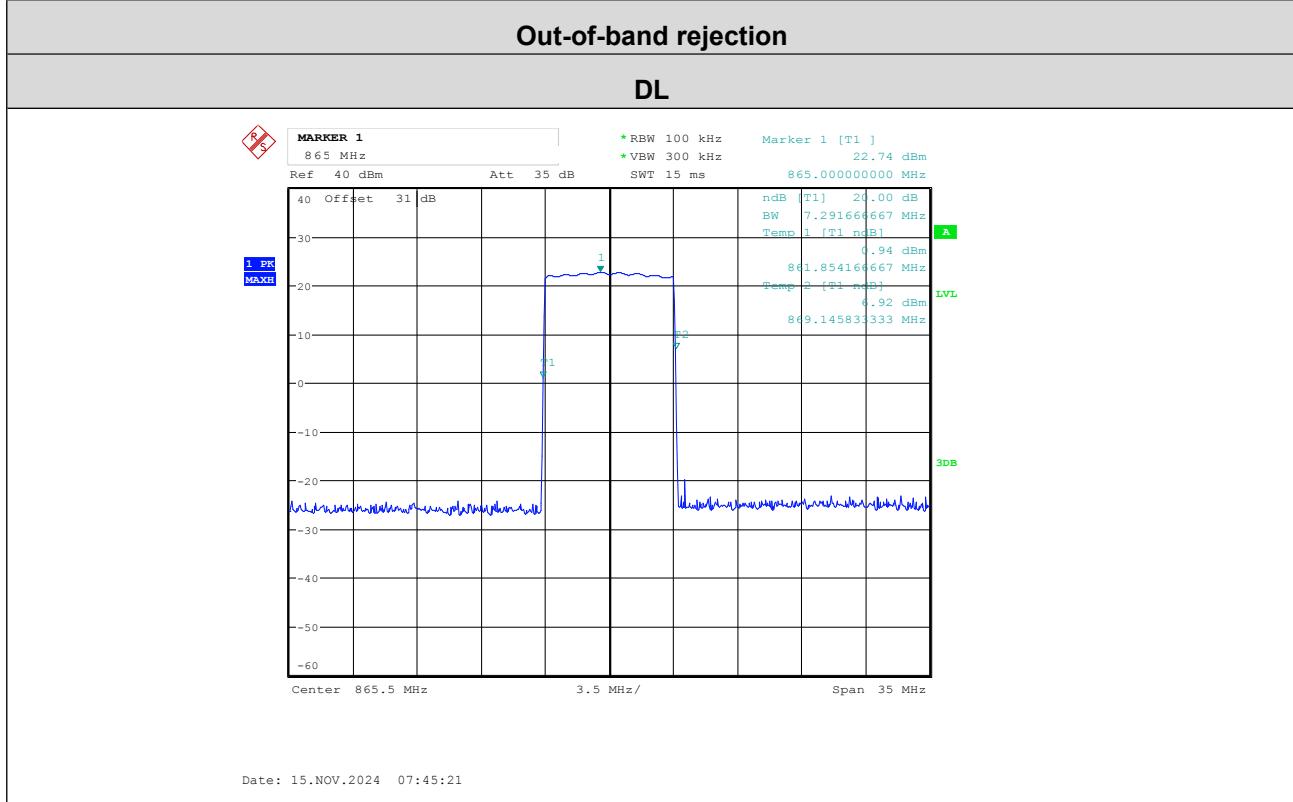
GZCR241100135104

(For ESMR Band DL)



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

1. The peak of the frequency response f_0 is 865.0MHz.
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	15.20dBm
	100MHz AWGN	MCH	15.10dBm
	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

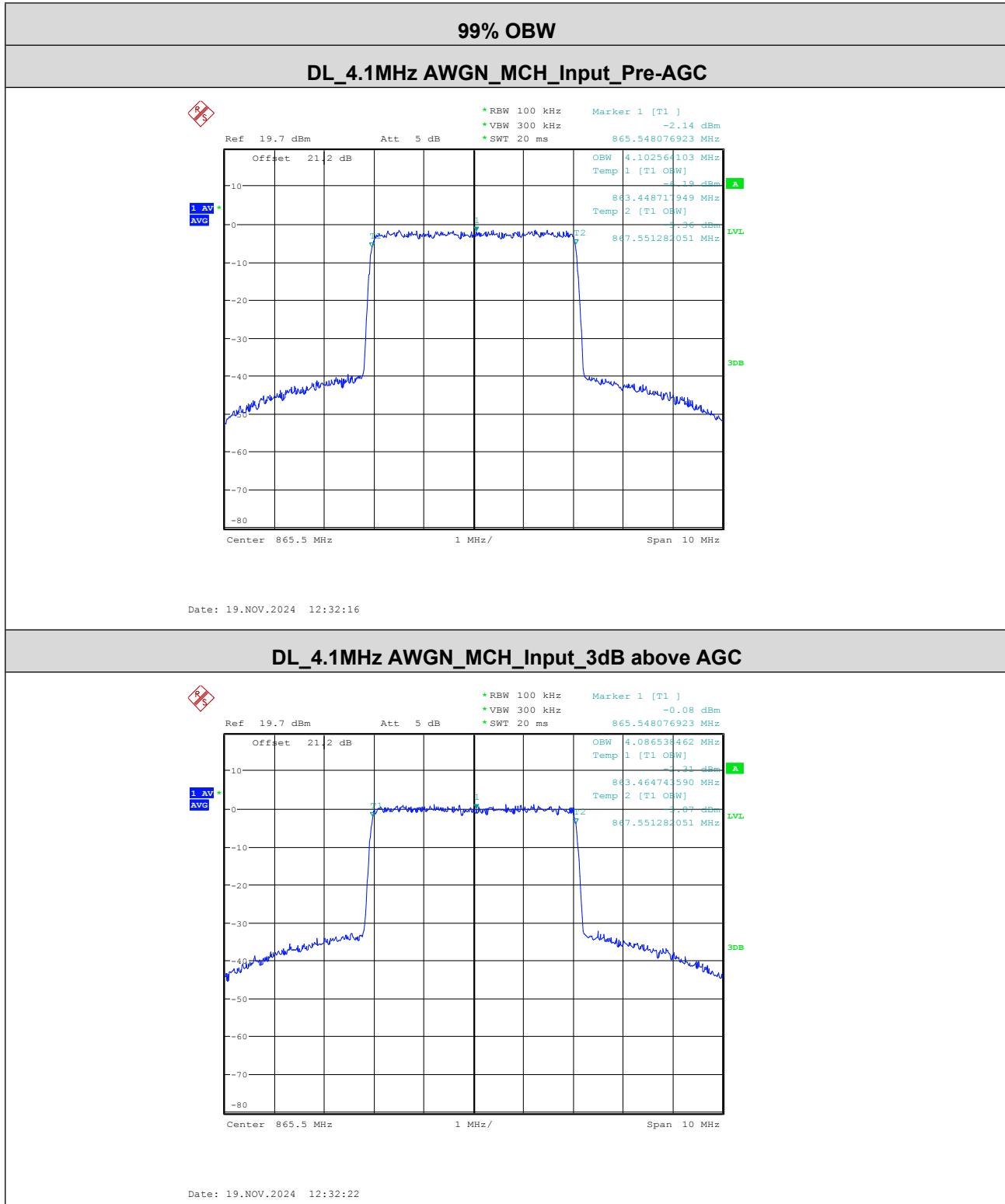
Remark:

- * The band supports maximum channel BW is 5MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
- 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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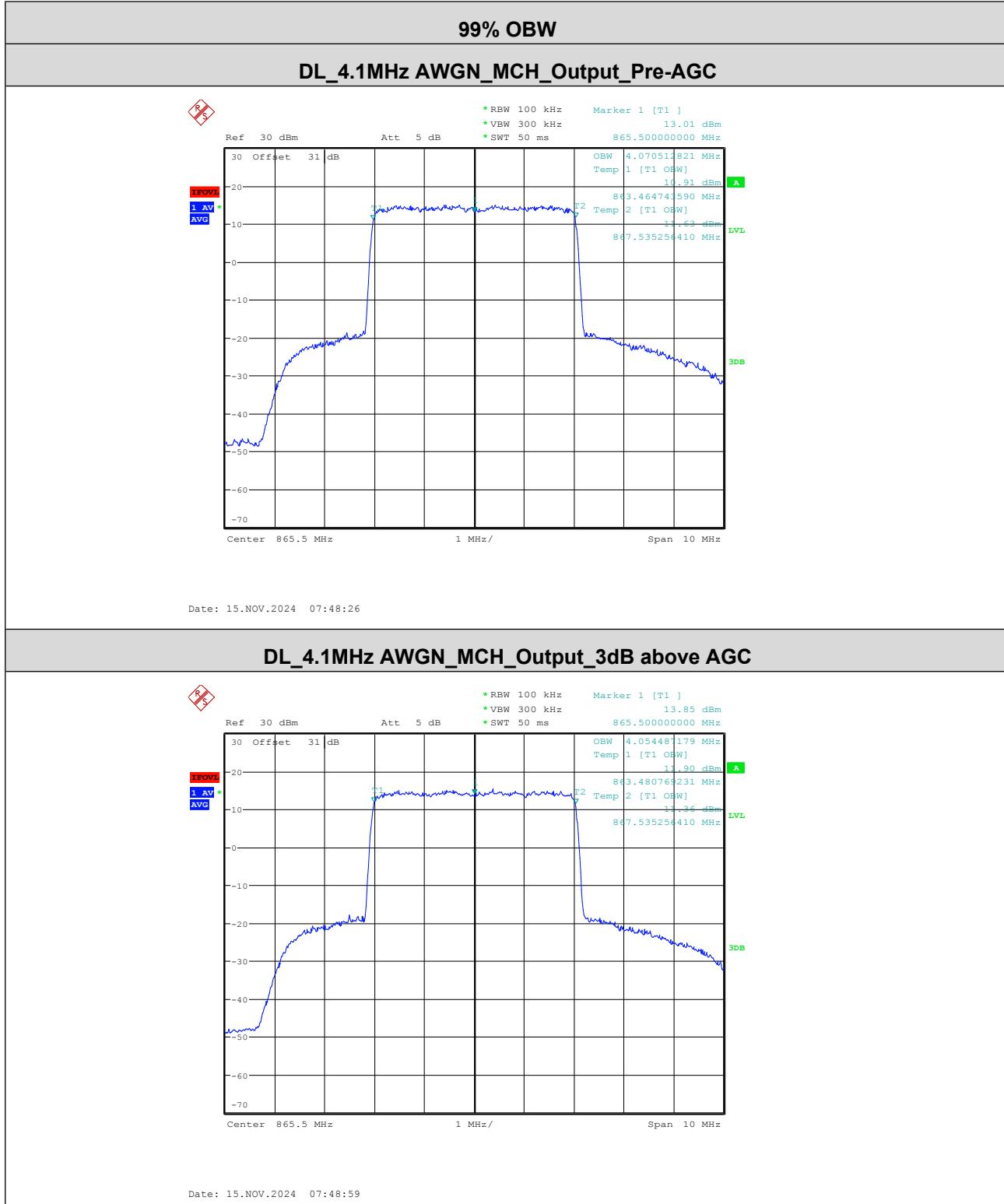
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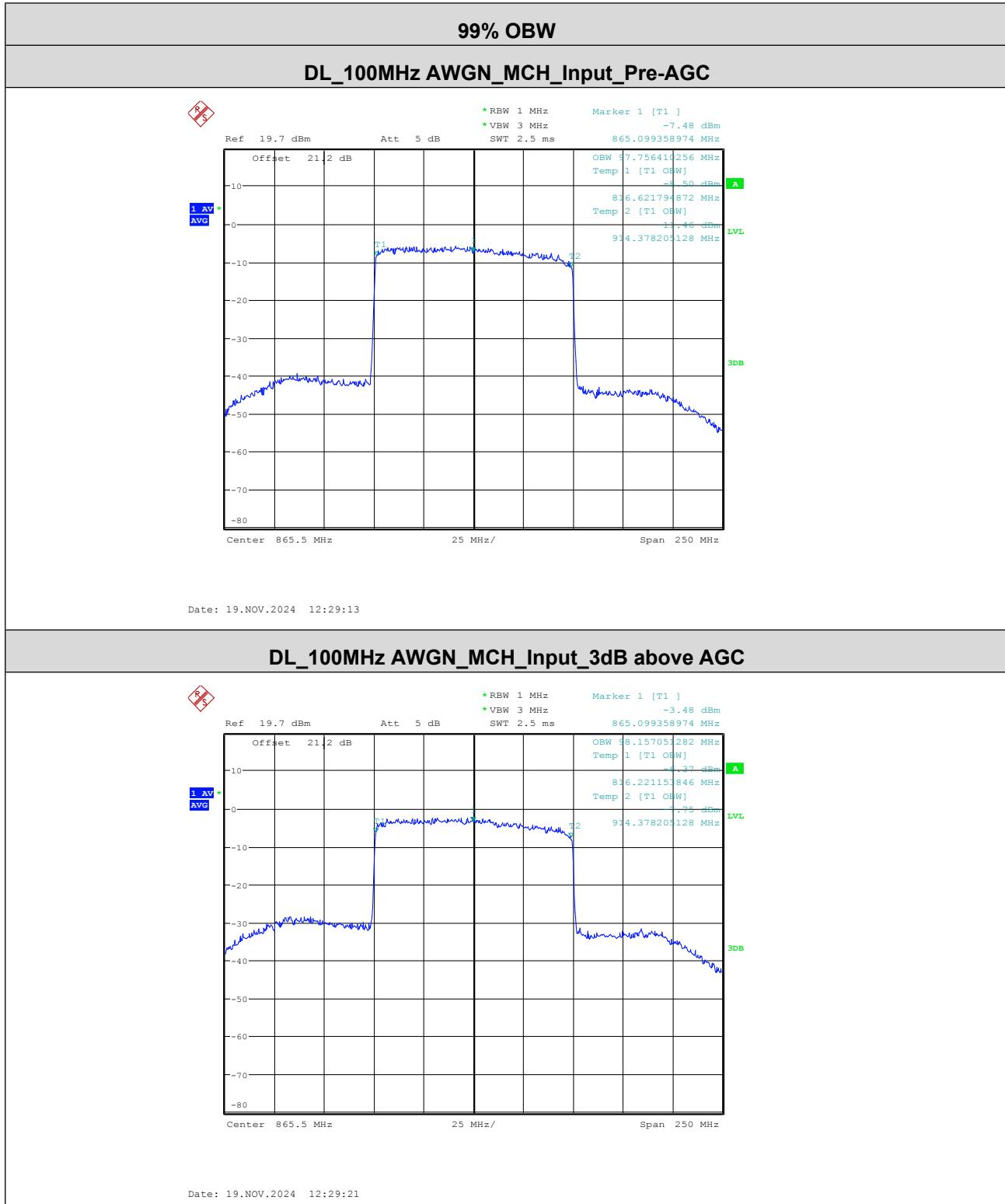
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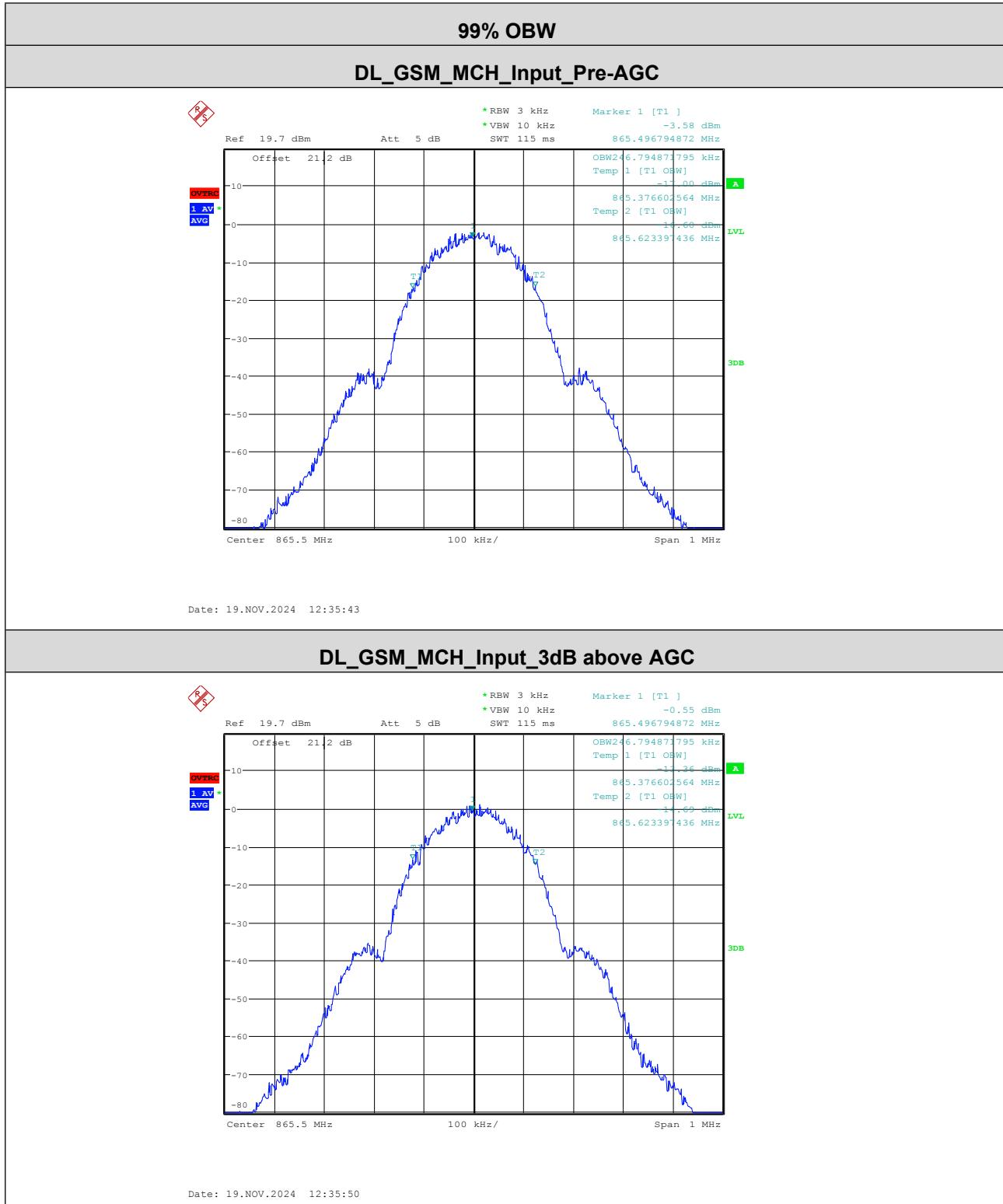
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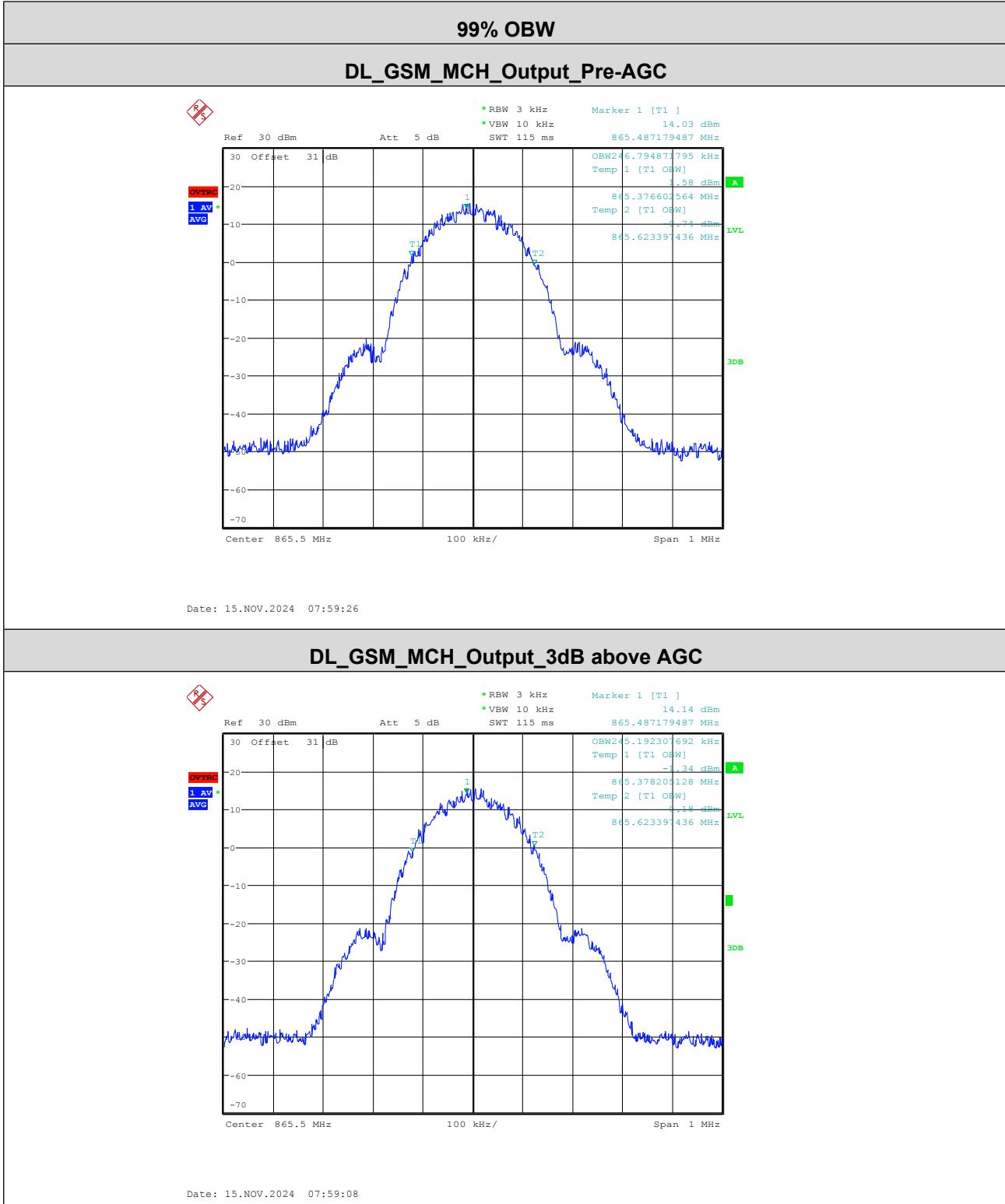
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3 Mean output power and amplifier/booster gain

Mean output power and gain								
Test Path	Test Freq. f ₀ (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	ERP (dBm)	ERP (W)	Gain (dB)
DL	865.0	4.1MHz AWGN	Pre-AGC	15	30.15	33.00	2.00	15.15
			3dB above AGC	18	30.27	33.12	2.06	/
		100MHz AWGN	Pre-AGC	15	29.09	31.94	1.57	14.09
			3dB above AGC	18	29.38	32.23	1.68	/
		GSM	Pre-AGC	15	31.36	34.21	2.64	16.36
			3dB above AGC	18	31.51	34.36	2.73	/

Remark:

1. f₀ is from Out-of-band Rejection test in the report.
2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 5dBi declared by the manufacturer.
3. The output power is limited to an ERP of 1000W and the ERP does not exceed the limit.



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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	-24.06	≤-13	PASS	
				3dB above AGC	-24.14		PASS	
	HCH		One signal input	Pre-AGC	-21.47		PASS	
				3dB above AGC	-20.80		PASS	
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-24.69	≤-13	PASS	
				3dB above AGC	-25.45		PASS	
	HCH		One signal input	Pre-AGC	-23.74		PASS	
				3dB above AGC	-23.30		PASS	
DL	LCH	GSM	One signal input	Pre-AGC	-18.79	≤-13	PASS	
				3dB above AGC	-18.80		PASS	
	HCH		Two signals input	Pre-AGC	-21.07		PASS	
				3dB above AGC	-19.46		PASS	
	HCH		One signal input	Pre-AGC	-17.94		PASS	
				3dB above AGC	-16.99		PASS	
			Two signals input	Pre-AGC	-18.81		PASS	
				3dB above AGC	-19.34		PASS	

Remark:

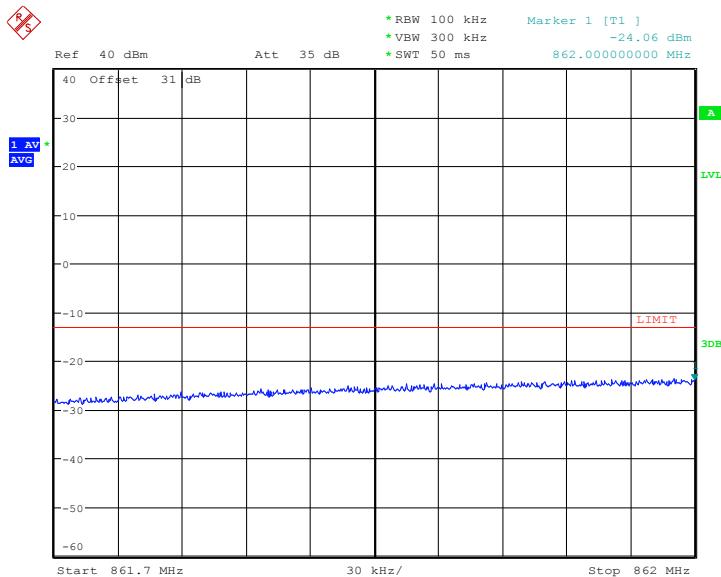
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,

$$P = 30 \text{ dBm} = 1 \text{ W}$$

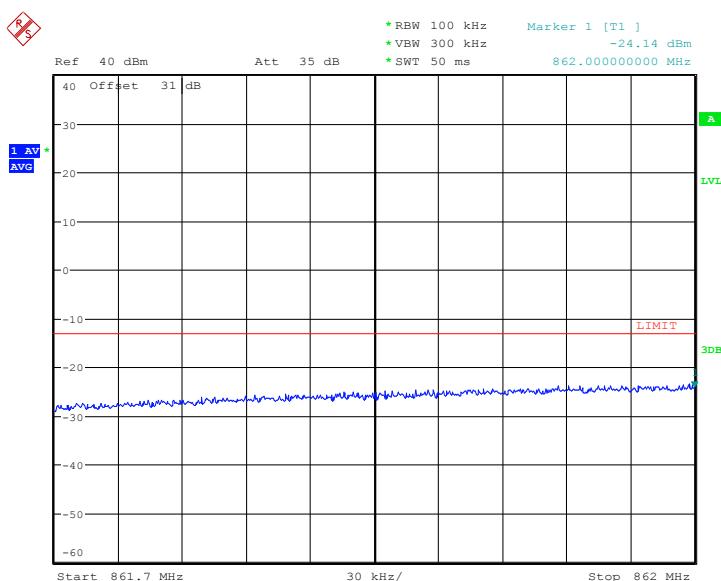
$$\text{the limit} = 30 \text{ dBm} - [43 + 10 \log_{10}(1 \text{ W})] \text{ dB} = -13 \text{ dBm}$$

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

Date: 15.NOV.2024 08:07:01

DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC

Date: 15.NOV.2024 08:07:11

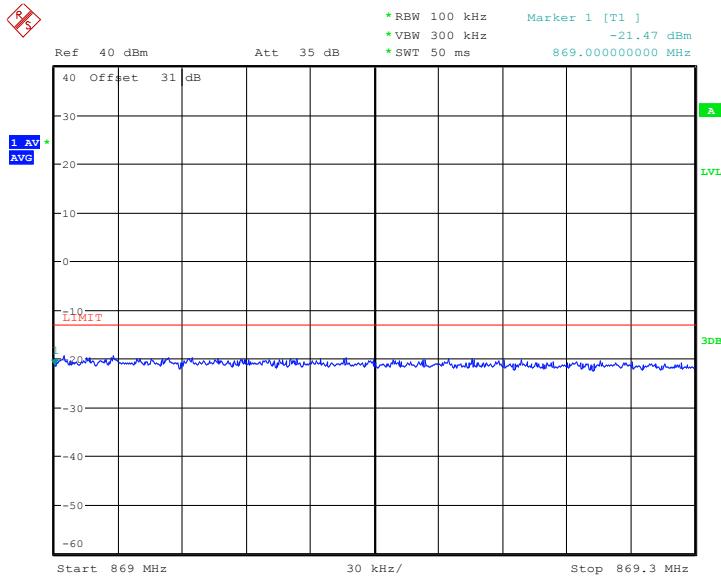
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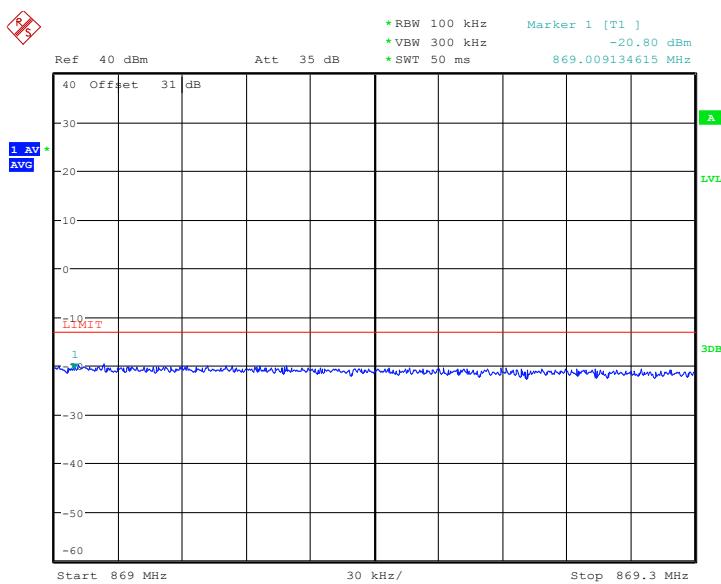


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Out-of-band/out-of-block emissions**DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC**

Date: 15.NOV.2024 08:08:42

DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC

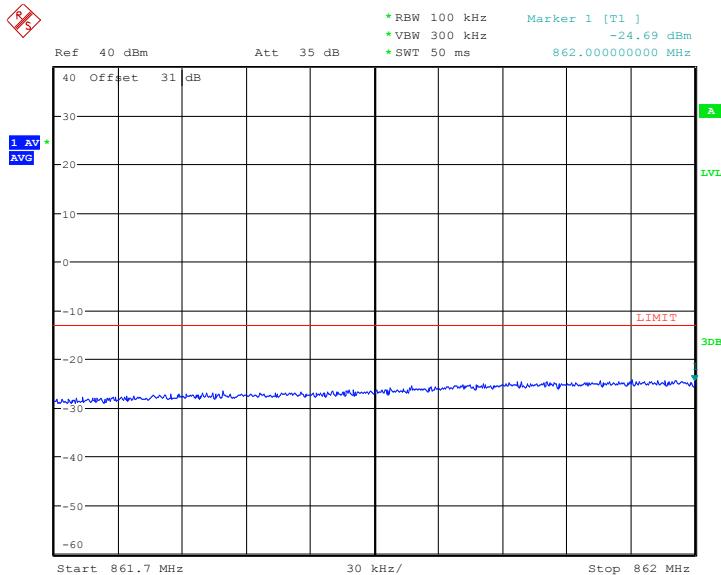
Date: 15.NOV.2024 08:08:51

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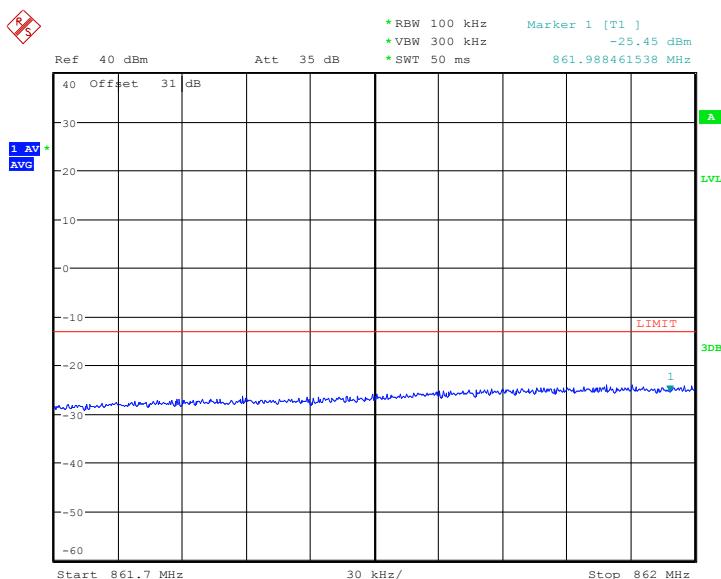
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Out-of-band/out-of-block emissions**DL_100MHz AWGN_LCH_a single test signal_Pre-AGC**

Date: 15.NOV.2024 08:12:15

DL_100MHz AWGN_LCH_a single test signal_3dB above AGC

Date: 15.NOV.2024 08:12:21

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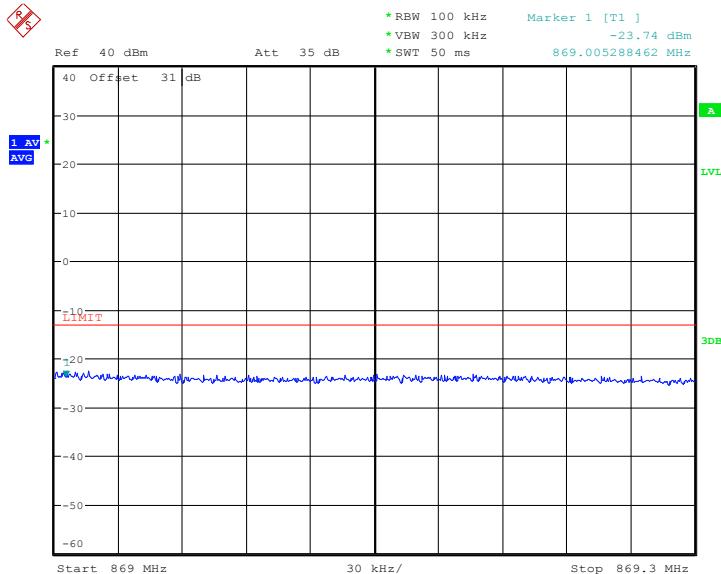


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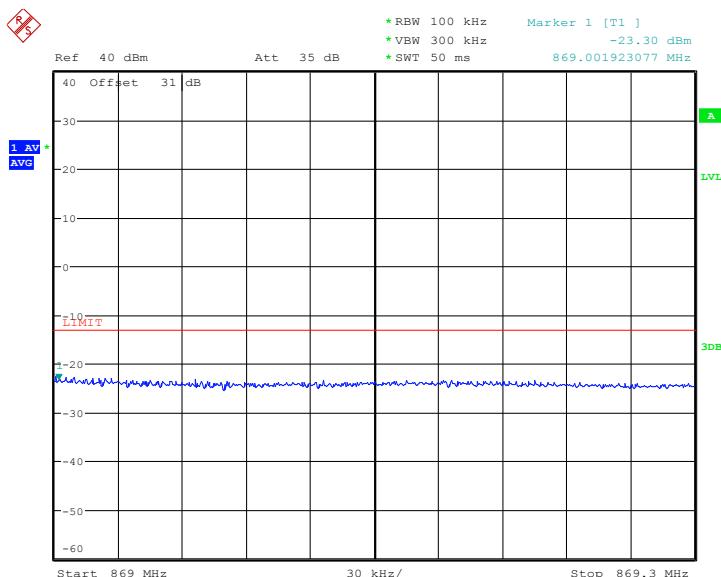
Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 15.NOV.2024 08:10:33

DL_100MHz AWGN HCH a single test signal 3dB above AGC



Date: 15.NOV.2024 08:10:40



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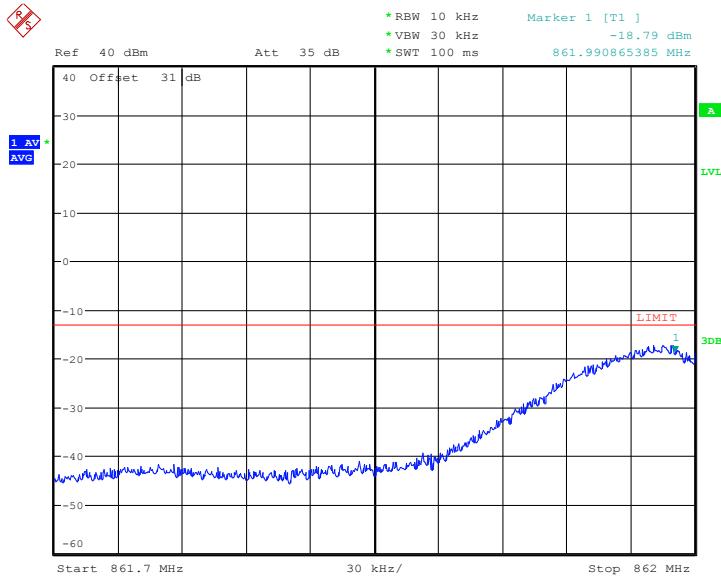
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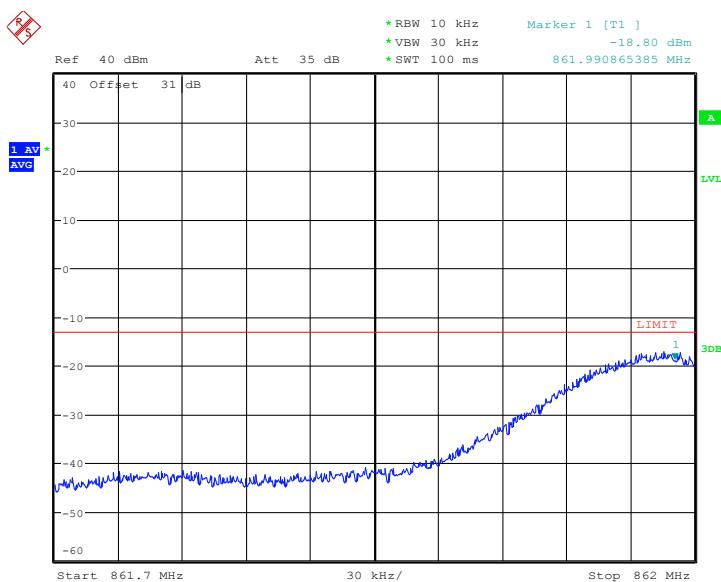
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Out-of-band/out-of-block emissions**DL_GSM_LCH_a single test signal_Pre-AGC**

Date: 15.NOV.2024 08:19:52

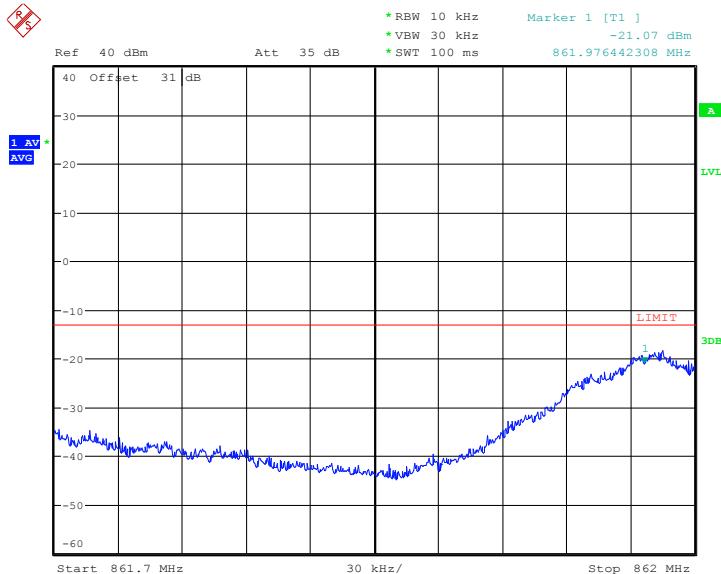
DL_GSM_LCH_a single test signal_3dB above AGC

Date: 15.NOV.2024 08:20:02

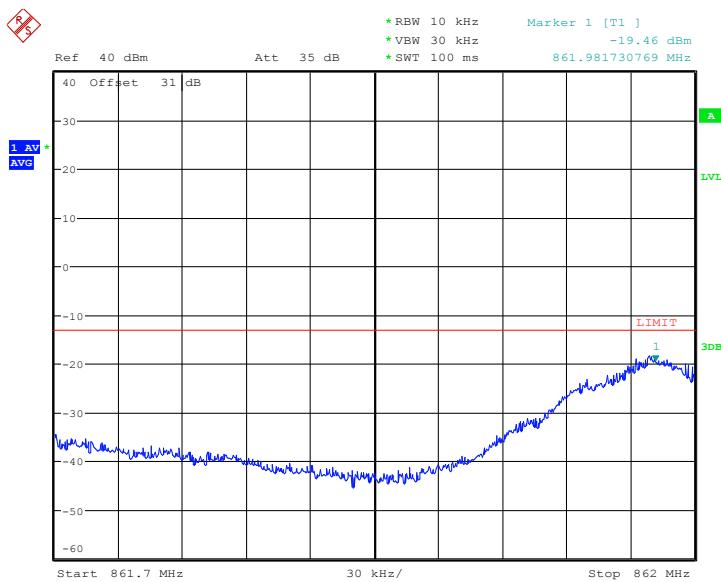
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Out-of-band/out-of-block emissions**DL_GSM_LCH_two adjacent test signals_Pre-AGC**

Date: 15.NOV.2024 08:21:44

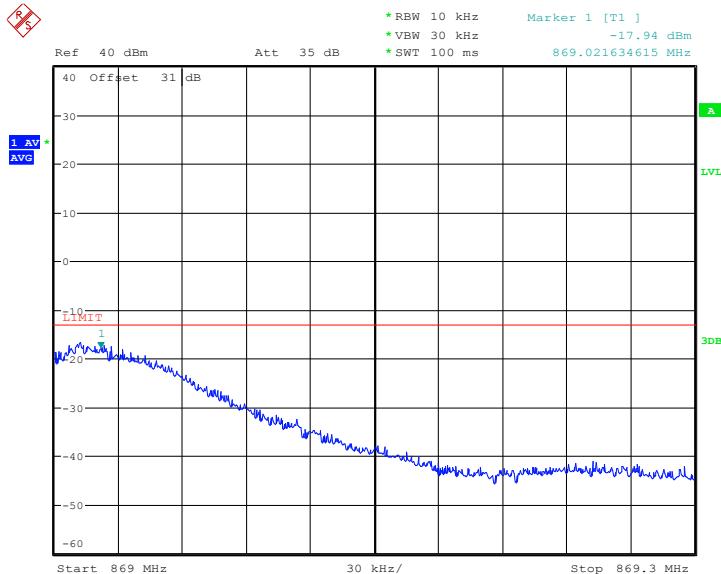
DL_GSM_LCH_two adjacent test signals_3dB above AGC

Date: 15.NOV.2024 08:21:49

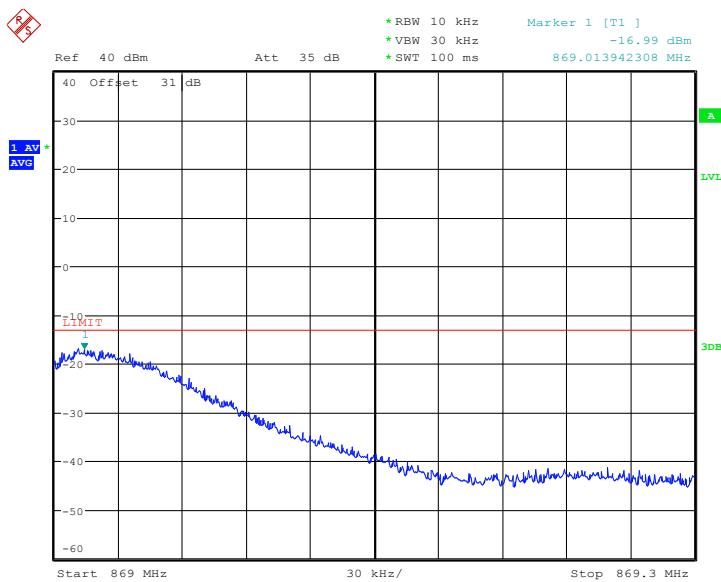
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Out-of-band/out-of-block emissions**DL_GSM_HCH_a single test signal_Pre-AGC**

Date: 15.NOV.2024 08:20:32

DL_GSM_HCH_a single test signal_3dB above AGC

Date: 15.NOV.2024 08:20:40

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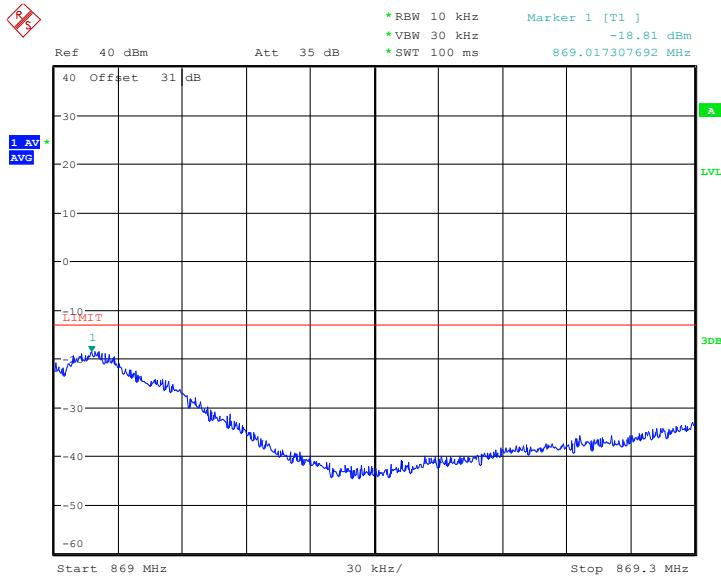
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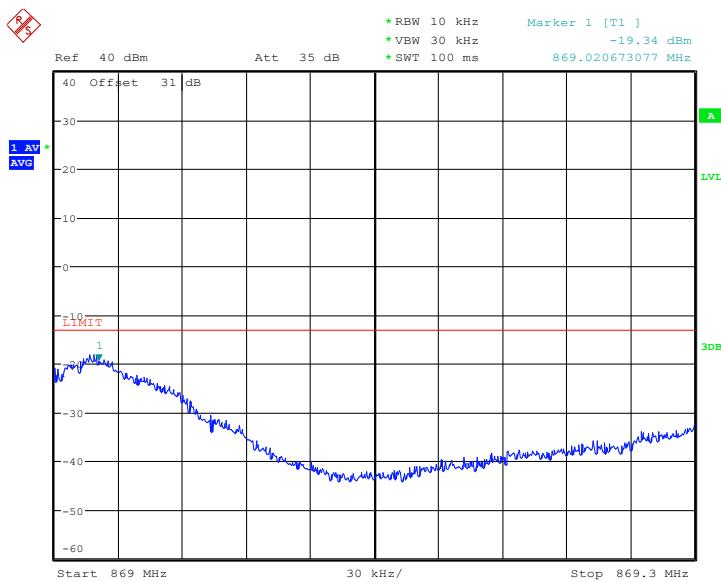
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Out-of-band/out-of-block emissions**DL_GSM_HCH_two adjacent test signals_Pre-AGC**

Date: 15.NOV.2024 08:21:11

DL_GSM_HCH_two adjacent test signals_3dB above AGC

Date: 15.NOV.2024 08:21:17

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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	0.09-861.9	-30.22	≤-13	PASS
		HCH	869.1-1000	-24.08	≤-13	PASS
			1000-8690	-19.31	≤-13	PASS

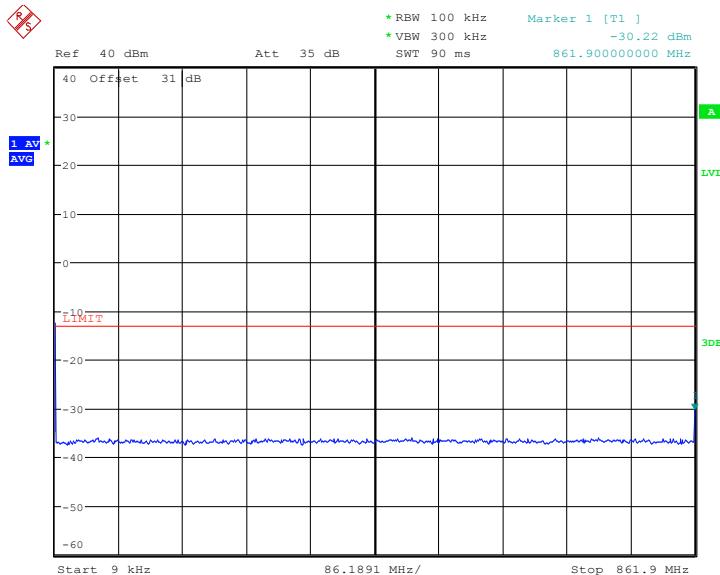
Remark:

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,
 $P = 30\text{dBm} = 1\text{W}$
 $\text{limit} = 30\text{dBm} - [43 + 10 \log_{10} (1\text{W})] \text{ dB} = -13\text{dBm}$
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.

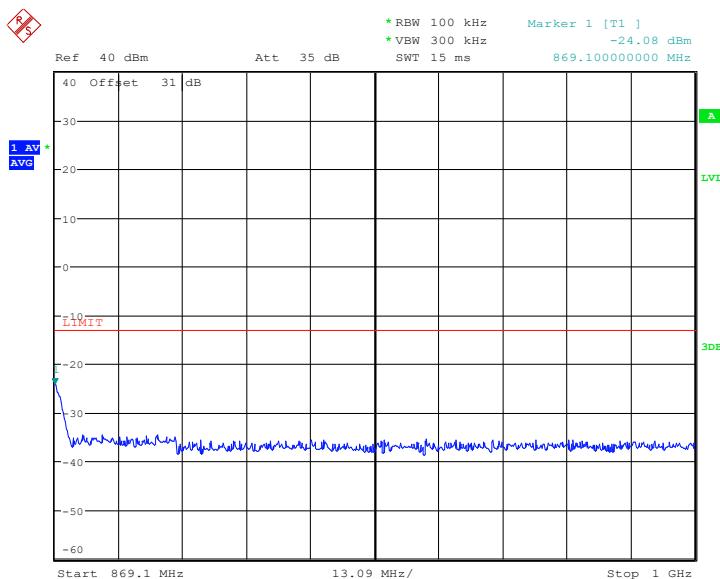


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Conducted spurious emissions**DL_4.1MHz AWGN_LCH_Pre-AGC**

Date: 15.NOV.2024 08:29:53

DL_4.1MHz AWGN_HCH_Pre-AGC

Date: 15.NOV.2024 08:30:39

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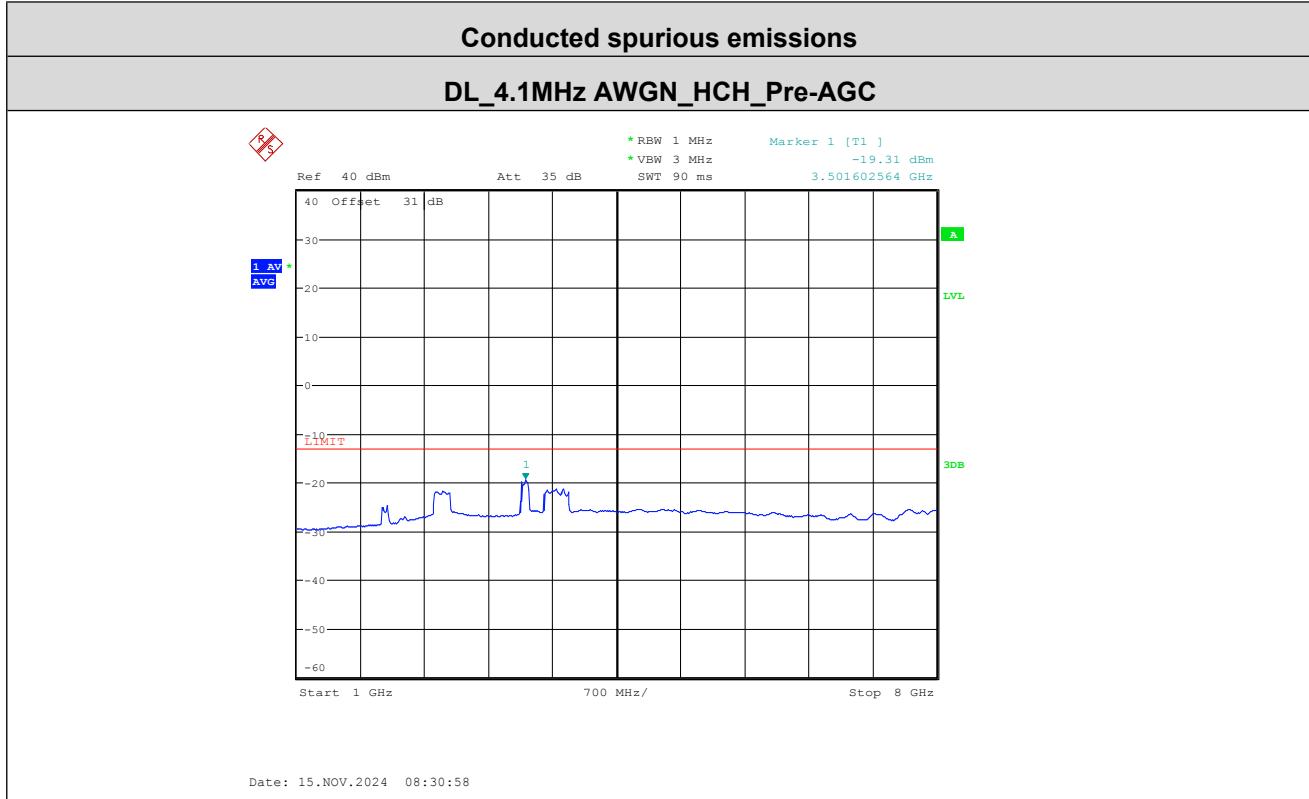
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Guangzhou Branch, China EEC Laboratory.

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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	10.5	0.01213	PASS
			TN	VH	13.6	0.01571	PASS
		100MHz AWGN	TN	VL	9.2	0.01063	PASS
			TN	VH	13.9	0.01606	PASS
		GSM	TN	VL	14.3	0.01652	PASS
			TN	VH	12.3	0.01421	PASS



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Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperatur e (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
	MCH	4.1MHz AWGN	VN	+50	14.7	0.01698	PASS
			VN	+40	7.5	0.00867	PASS
			VN	+30	8.7	0.01005	PASS
			VN	+20	11.6	0.01340	PASS
			VN	+10	14.2	0.01641	PASS
			VN	0	13.8	0.01594	PASS
			VN	-10	11.3	0.01306	PASS
			VN	-20	8.6	0.00994	PASS
			VN	-30	8.1	0.00936	PASS
	MCH	100MHz AWGN	VN	+50	14.3	0.01652	PASS
			VN	+40	14.8	0.01710	PASS
			VN	+30	13.6	0.01571	PASS
			VN	+20	9.4	0.01086	PASS
			VN	+10	14.2	0.01641	PASS
			VN	0	10.6	0.01225	PASS
			VN	-10	8.5	0.00982	PASS
			VN	-20	11.2	0.01294	PASS
			VN	-30	15.6	0.01802	PASS
	MCH	GSM	VN	+50	11.2	0.01294	PASS
			VN	+40	14.5	0.01675	PASS
			VN	+30	9.6	0.01109	PASS
			VN	+20	8.1	0.00936	PASS
			VN	+10	13.5	0.01560	PASS
			VN	0	10.4	0.01202	PASS
			VN	-10	7.9	0.00913	PASS
			VN	-20	8.0	0.00924	PASS
			VN	-30	8.9	0.01028	PASS

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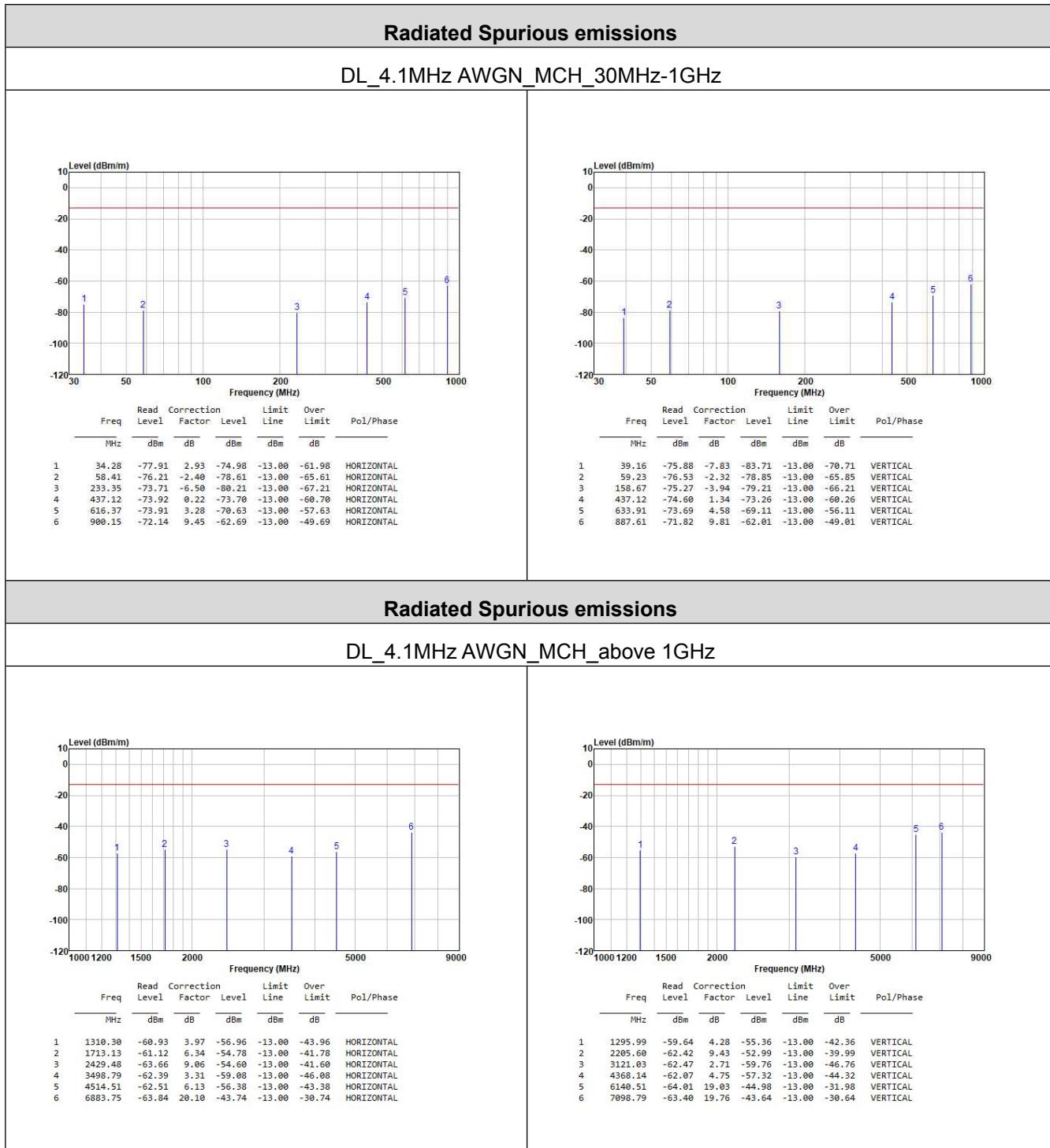
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7 Radiated Spurious emissions



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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 were very low and not displayed in this report. Therefore, only show the worst-case in this report.

--End of Appendix--

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