

Appendix -

Test Data and Result for report

GZCR250300027205

(For Cellular Band UL)



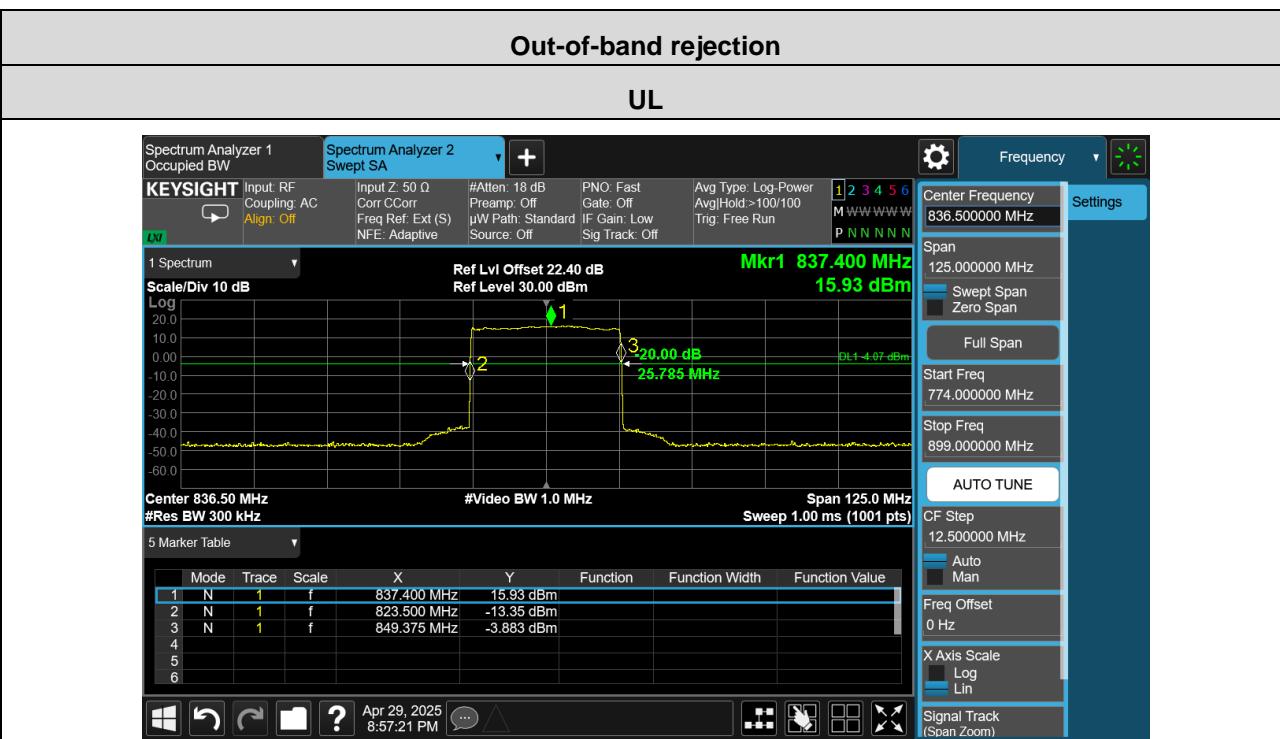
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1 Out-of-band rejection

Out-of-band rejection

UL



Remark:

1. The peak of the frequency response f_0 is 837.4MHz.
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
UL	4.1MHz AWGN	MCH	-60.95dBm
	100MHz AWGN	MCH	-53.90dBm
	GSM	MCH	-60.95dBm



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2 Input versus Output comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
UL	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 channel BW is 20MHz 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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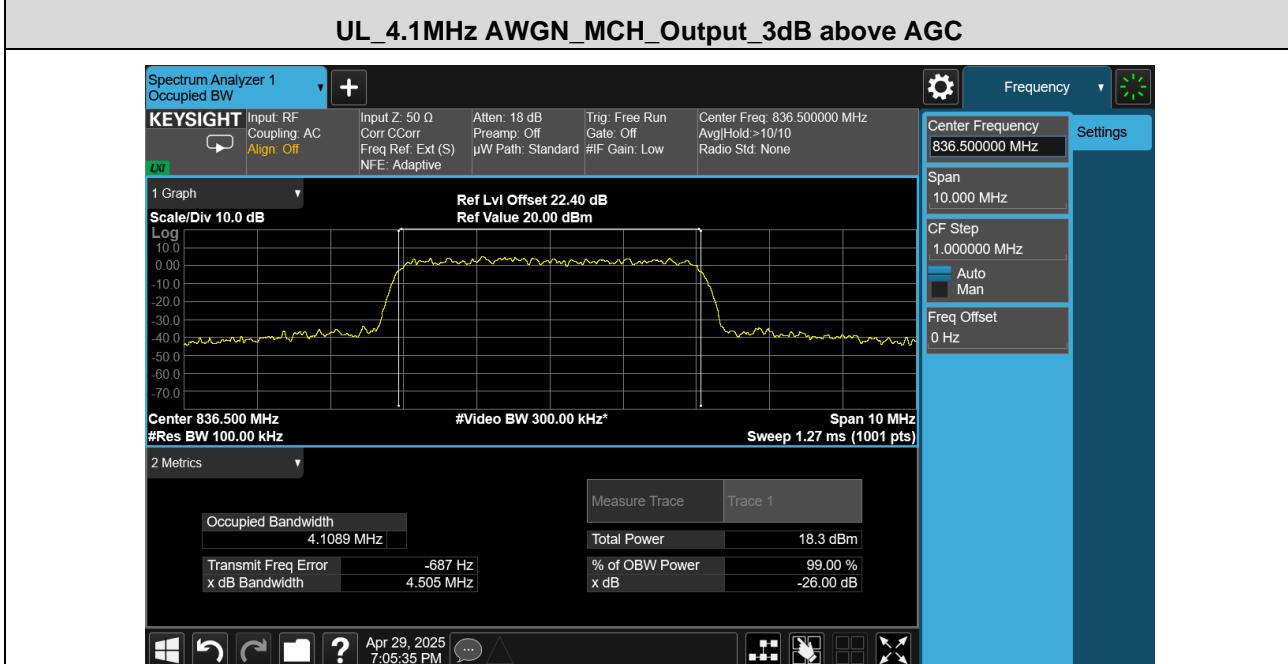
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99% OBW**UL_100MHz AWGN_MCH_Output_Pre-AGC****UL_100MHz AWGN_MCH_Output_3dB above AGC**

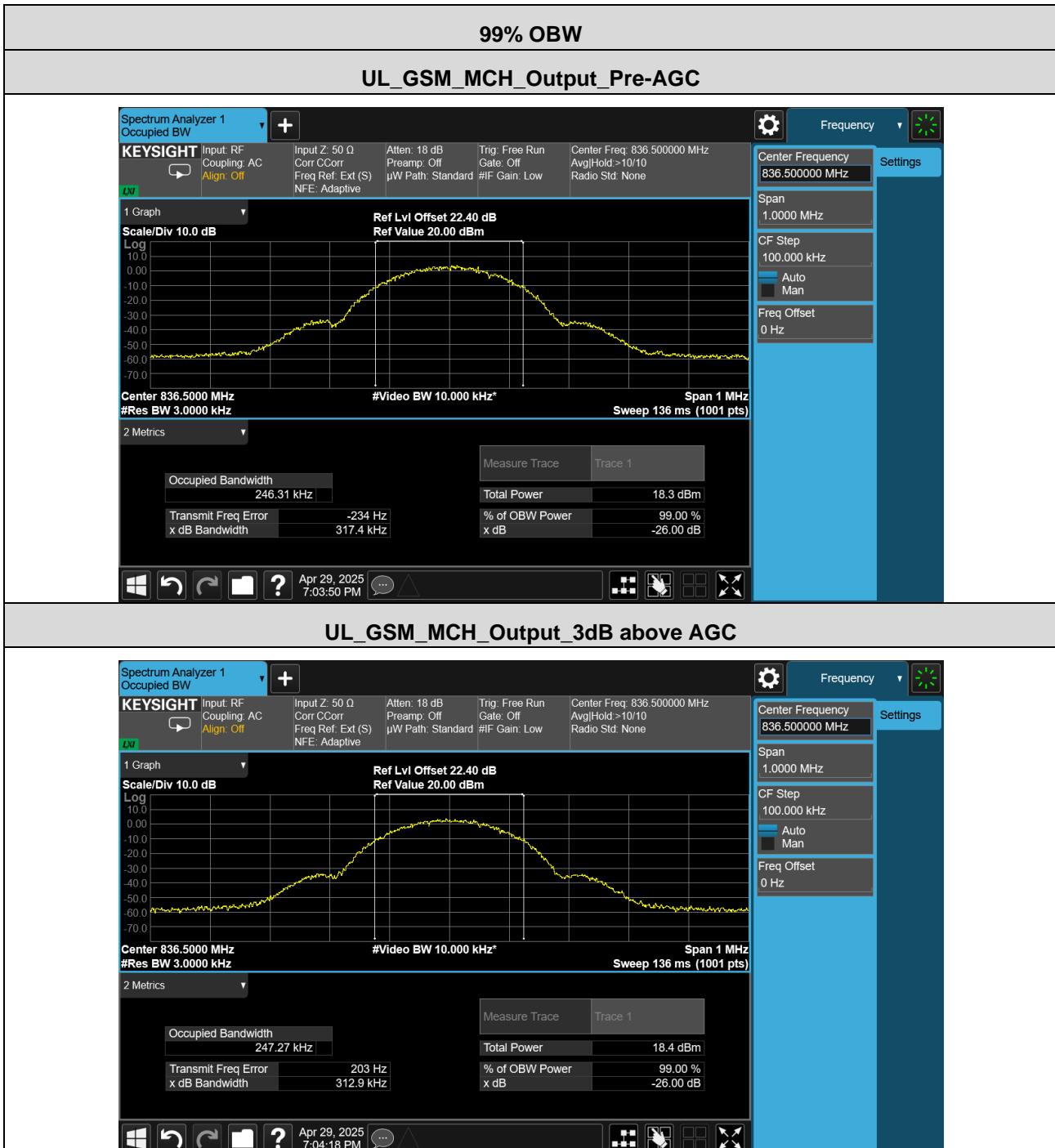
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99% OBW**UL_GSM_MCH_Input_Pre-AGC****UL_GSM_MCH_Input_3dB above AGC**

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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)
UL	837.4	4.1MHz AWGN	Pre-AGC	-61	18.10	29.95	0.99	79.10
			3dB above AGC	-58	18.41	30.26	1.07	/
		100MHz AWGN	Pre-AGC	-54	18.06	29.91	0.98	72.06
			3dB above AGC	-51	18.24	30.09	1.03	/
		GSM	Pre-AGC	-61	18.38	30.23	1.06	79.38
			3dB above AGC	-58	18.56	30.41	1.10	/

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 14dBi declared by the manufacturer.
3. The output power is limited to an ERP of 500W and the total 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	
UL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-23.38	≤-13	PASS	
				3dB above AGC	-23.07		PASS	
	HCH		Two signals input	Pre-AGC	-22.99		PASS	
				3dB above AGC	-23.51		PASS	
			One signal input	Pre-AGC	-28.06		PASS	
				3dB above AGC	-27.76		PASS	
	HCH		Two signals input	Pre-AGC	-34.86		PASS	
				3dB above AGC	-35.12		PASS	
UL	LCH	100MHz AWGN	One signal input	Pre-AGC	-17.39	≤-13	PASS	
				3dB above AGC	-16.41		PASS	
	HCH		One signal input	Pre-AGC	-17.99		PASS	
				3dB above AGC	-16.76		PASS	
UL	LCH	GSM	One signal input	Pre-AGC	-24.88	≤-13	PASS	
				3dB above AGC	-24.74		PASS	
	HCH		Two signals input	Pre-AGC	-24.84		PASS	
				3dB above AGC	-25.09		PASS	
			One signal input	Pre-AGC	-34.16		PASS	
				3dB above AGC	-33.74		PASS	
	HCH		Two signals input	Pre-AGC	-35.28		PASS	
				3dB above AGC	-35.33		PASS	

Remark:

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.

$$P = 19 \text{ dBm} = 0.08 \text{ W}$$

the limit = 19dBm - [43 + 10log10(0.08W)]dB = -13dBm

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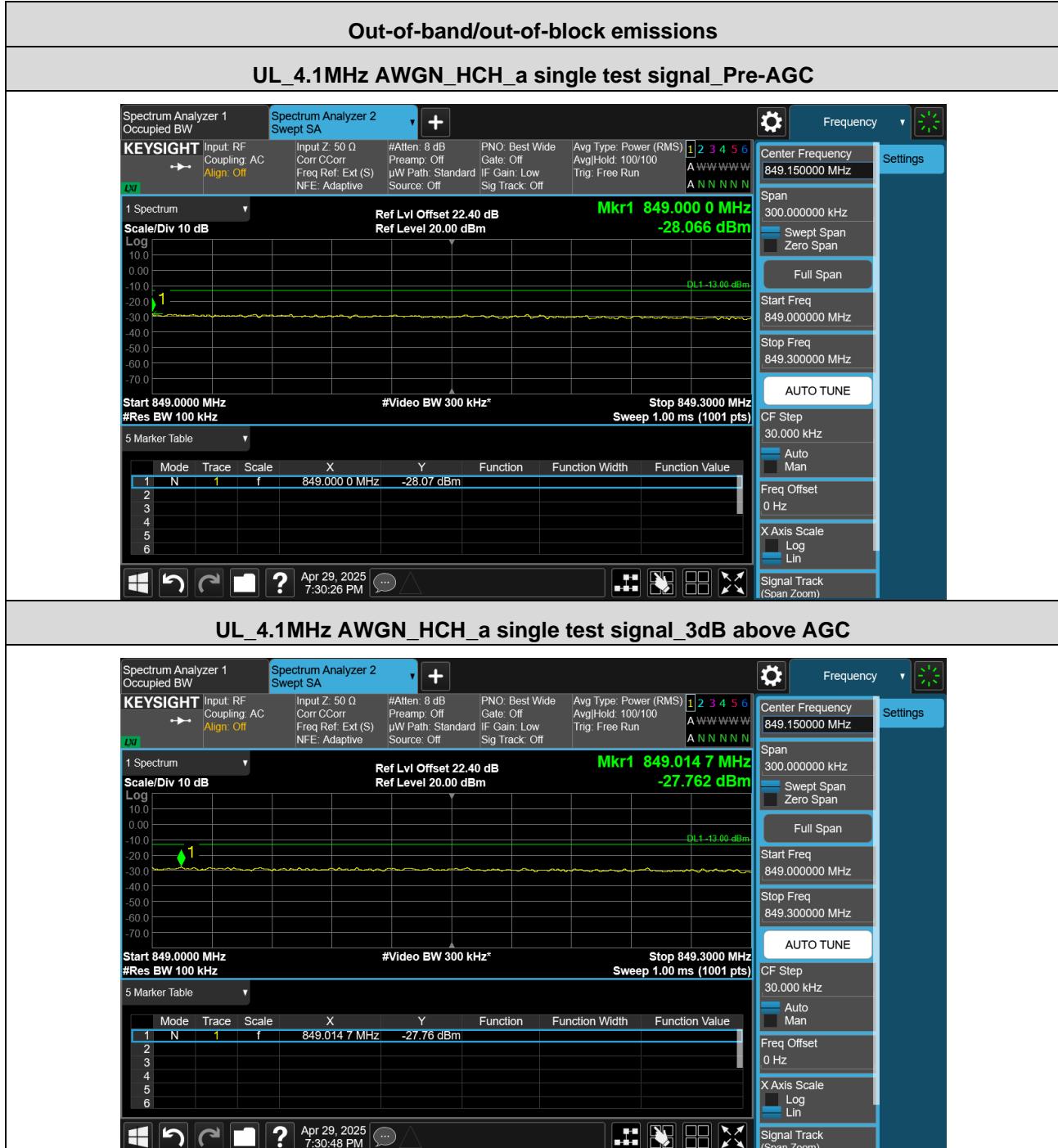


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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



UL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC



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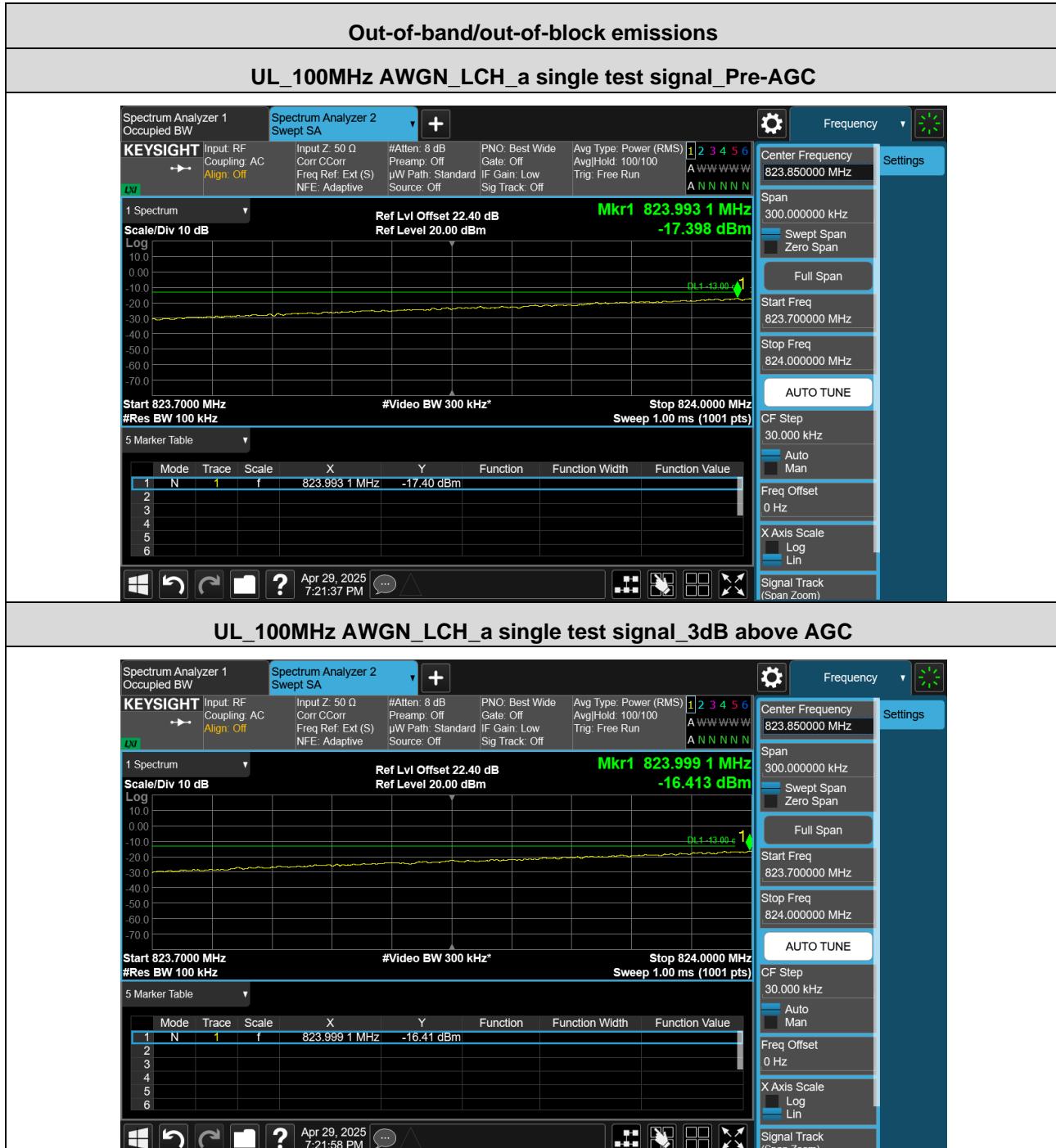
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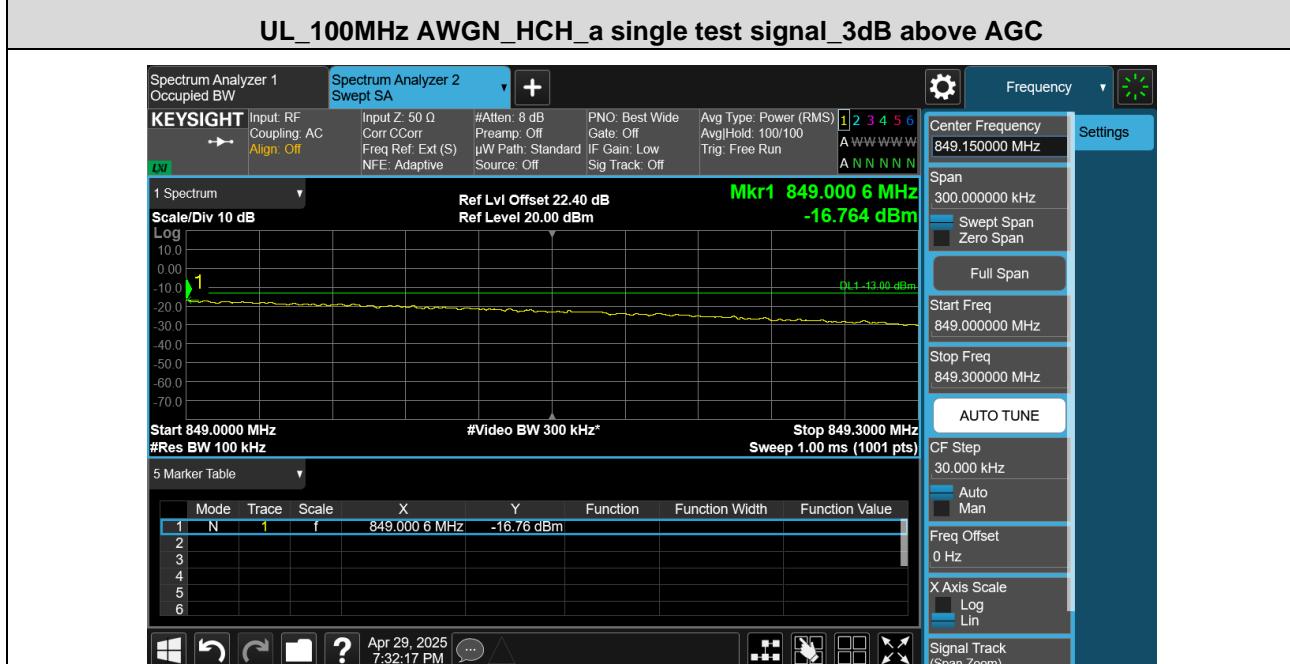
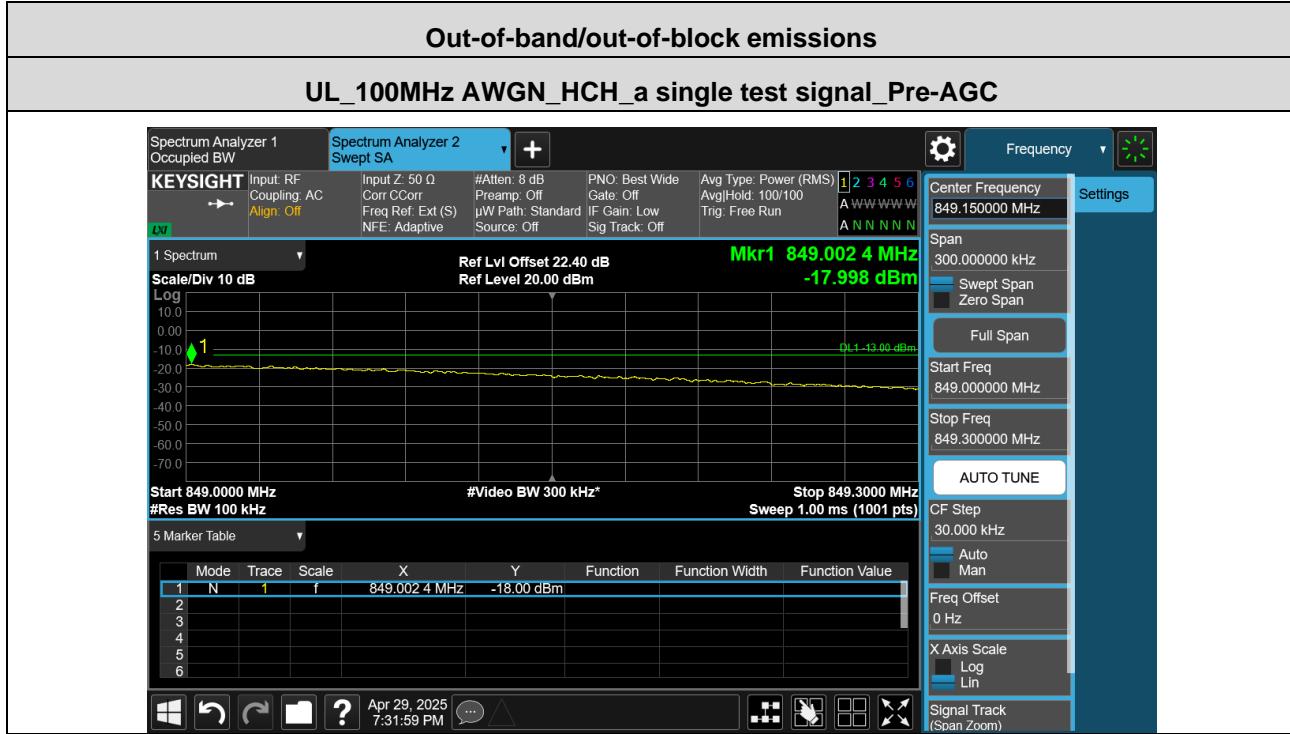
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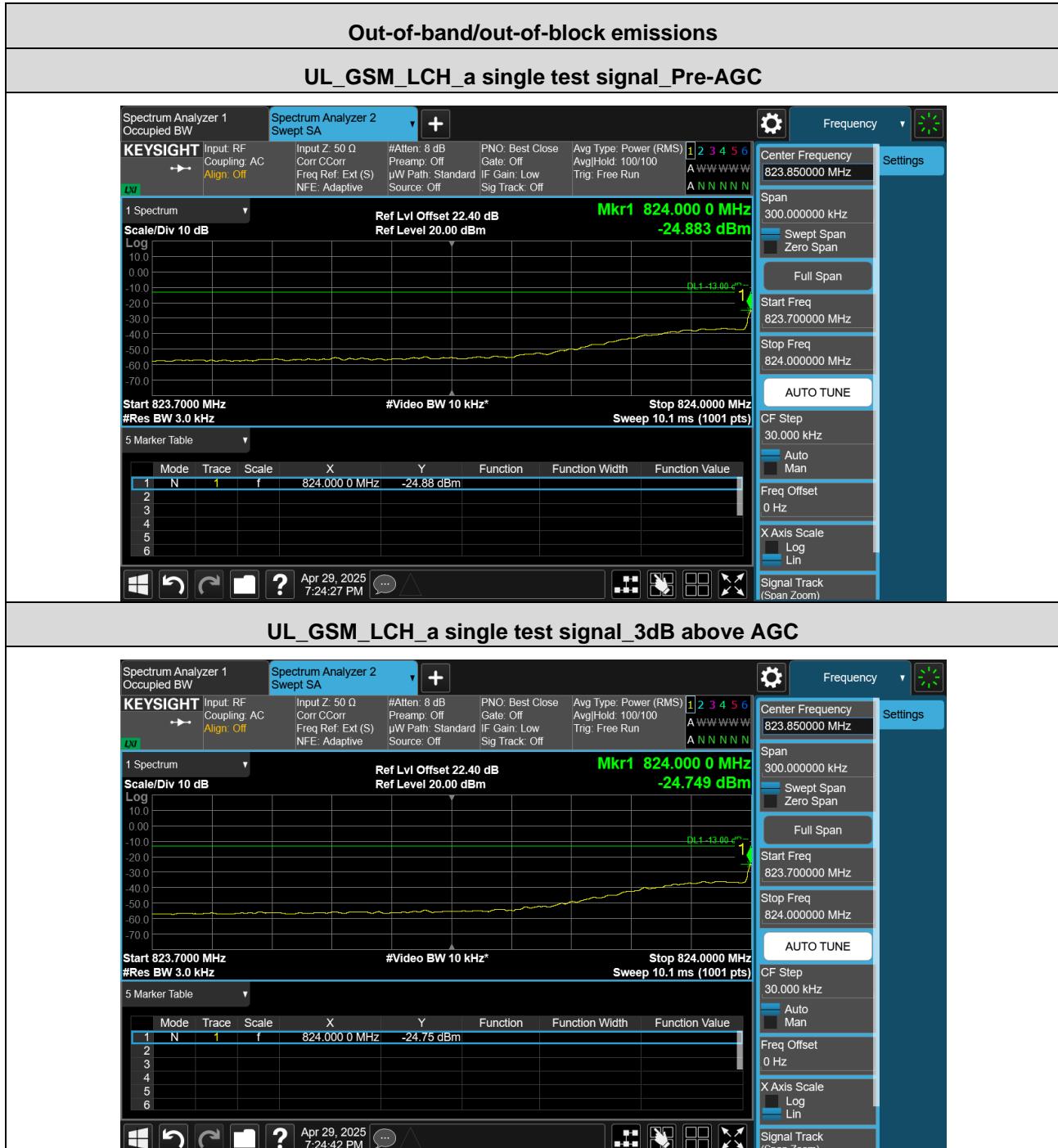
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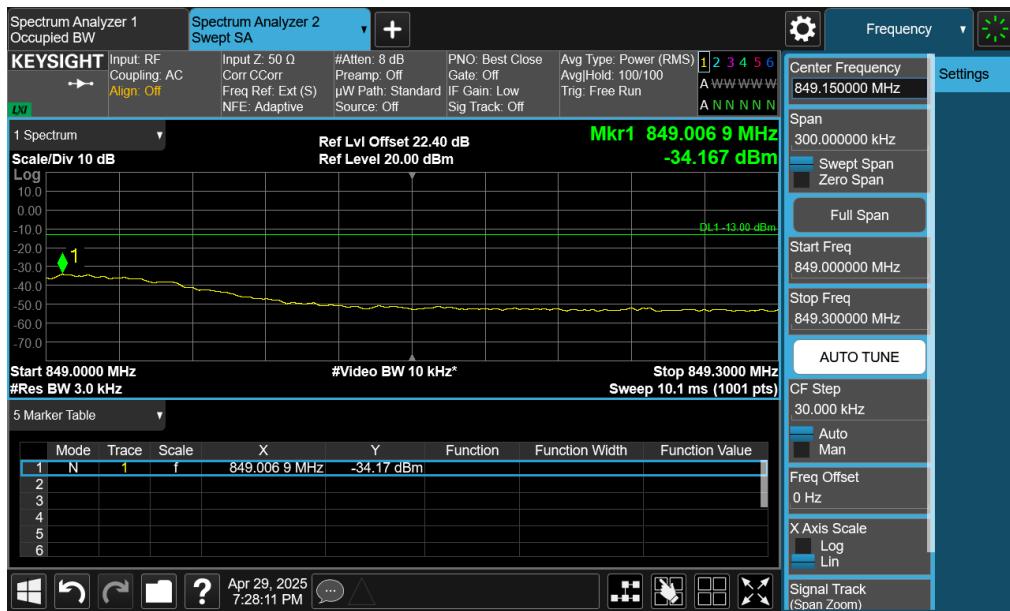


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Out-of-band/out-of-block emissions

UL_GSM_HCH_a single test signal_Pre-AGC



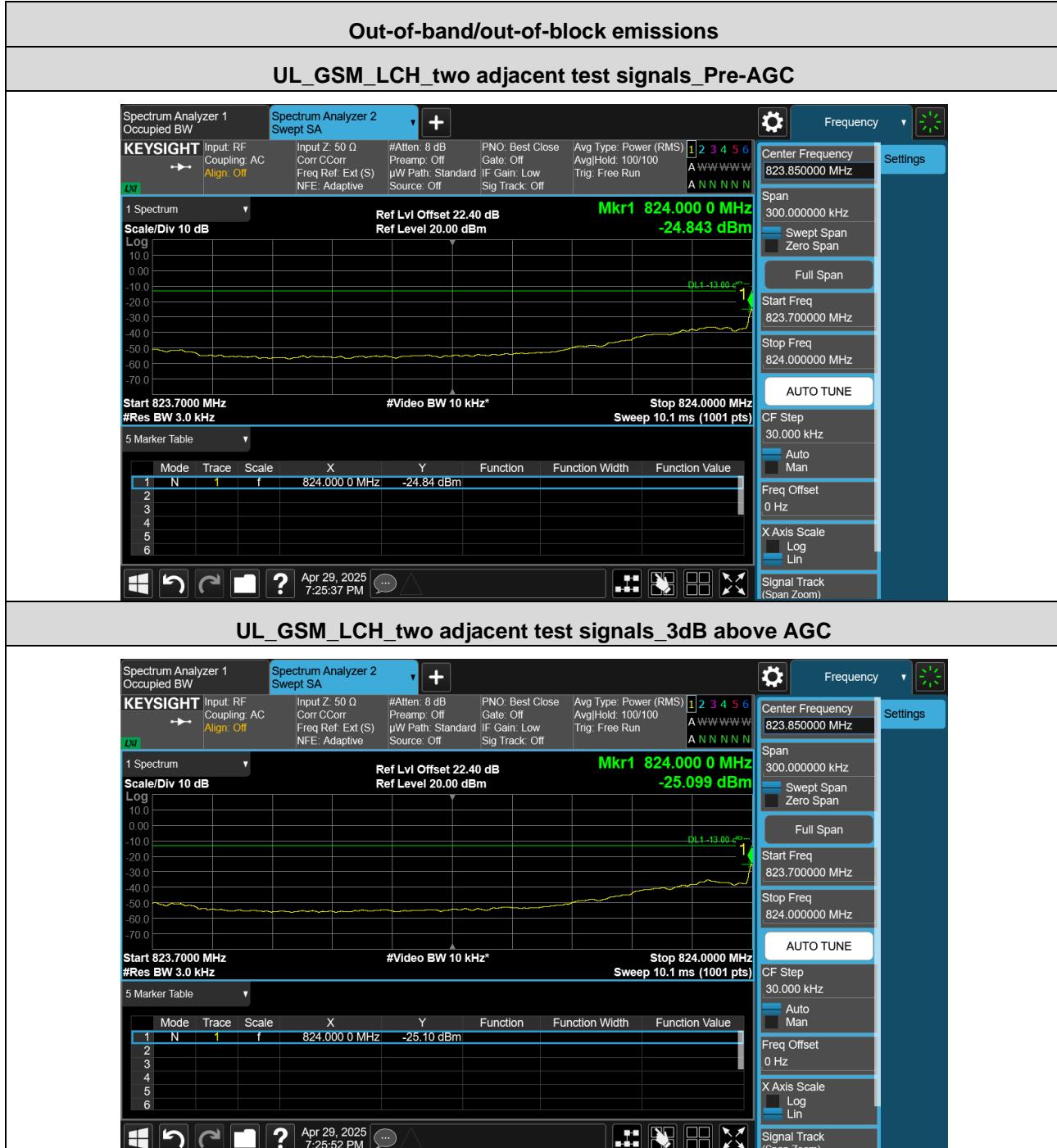
UL_GSM_HCH_a single test signal_3dB above AGC



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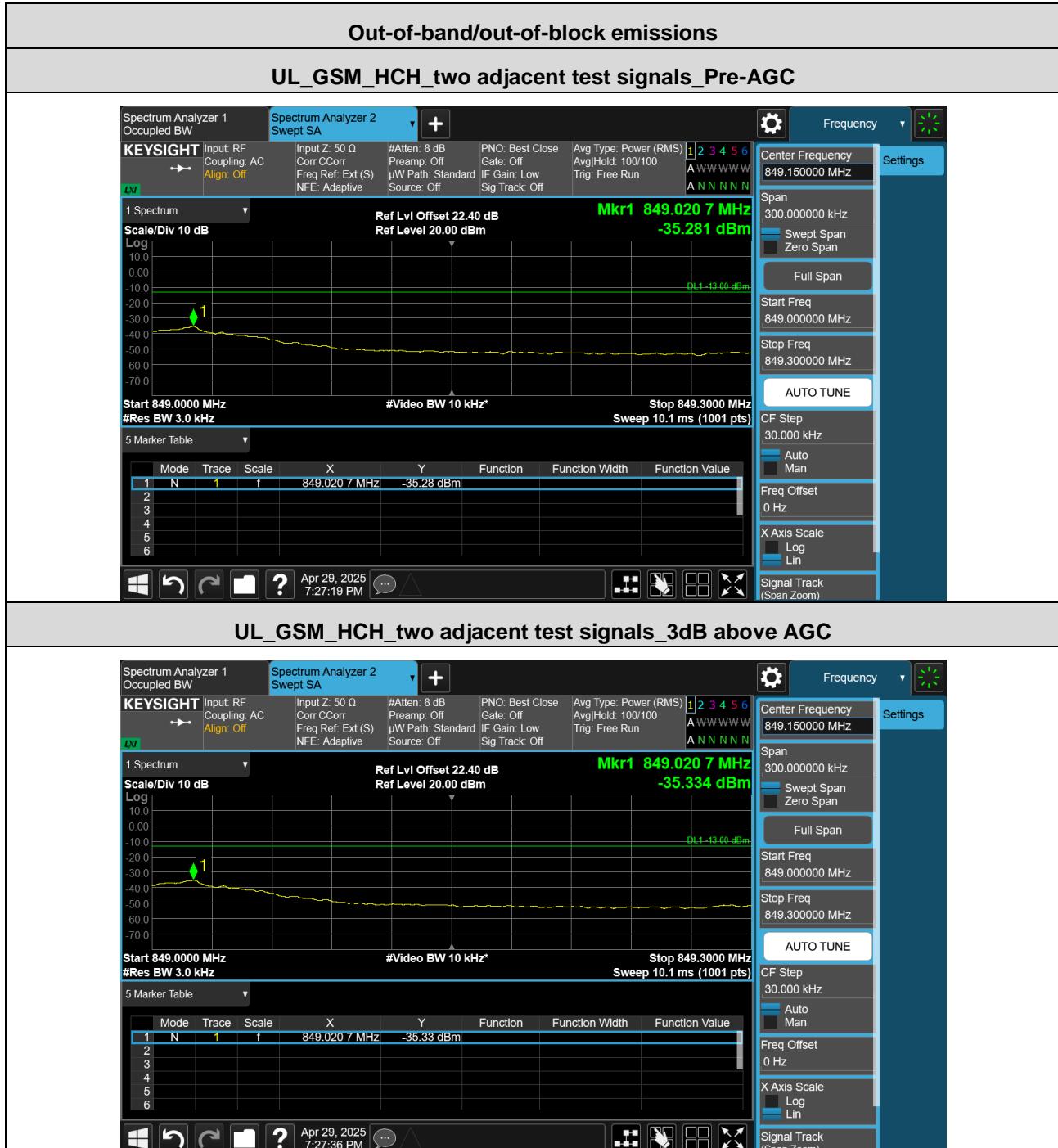




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5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
UL	4.1MHz AWGN	LCH	0.09-823.9	-22.68	≤-13	PASS
		HCH	849.1-1000	-26.17	≤-13	PASS
			1000-8490	-33.54	≤-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,
 $P = 19\text{dBm} = 0.08\text{W}$
 $\text{limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$
2. All modes (LCH/MCH/HCH, with 4.1MHz AWGN signal/ with 100MHz AWGN signal/ with GSM signal) had been tested, only show the worst-case in this report.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.

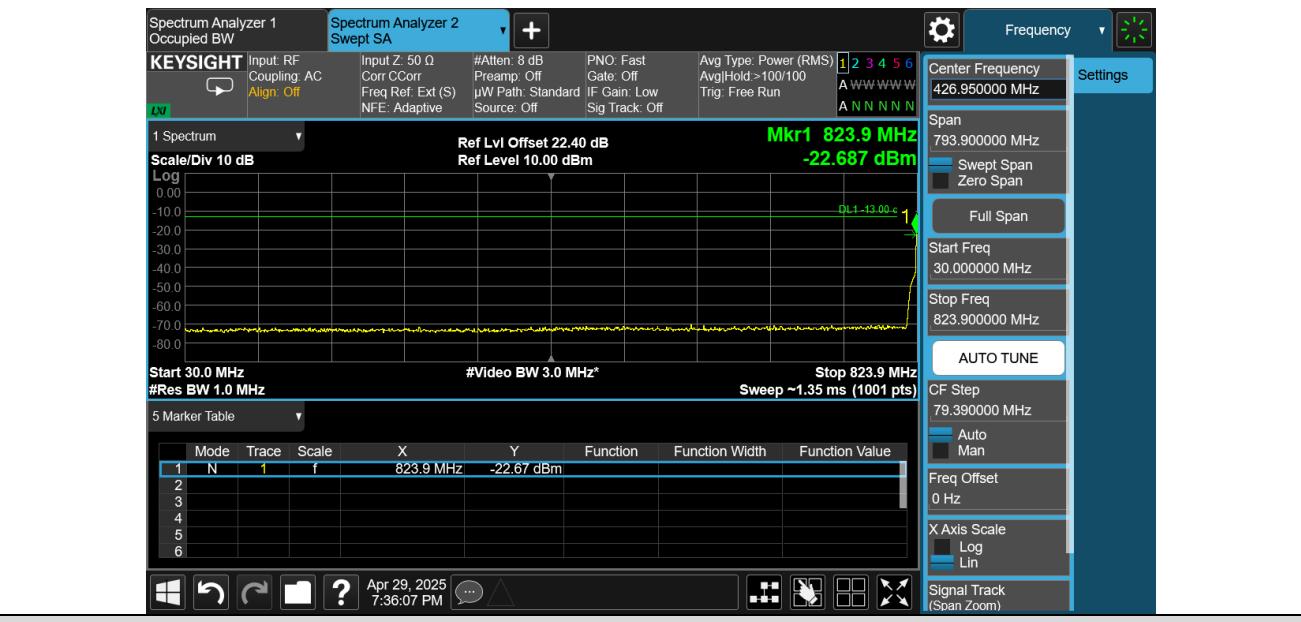


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Conducted spurious emissions

UL_4.1MHz AWGN_LCH_Pre-AGC



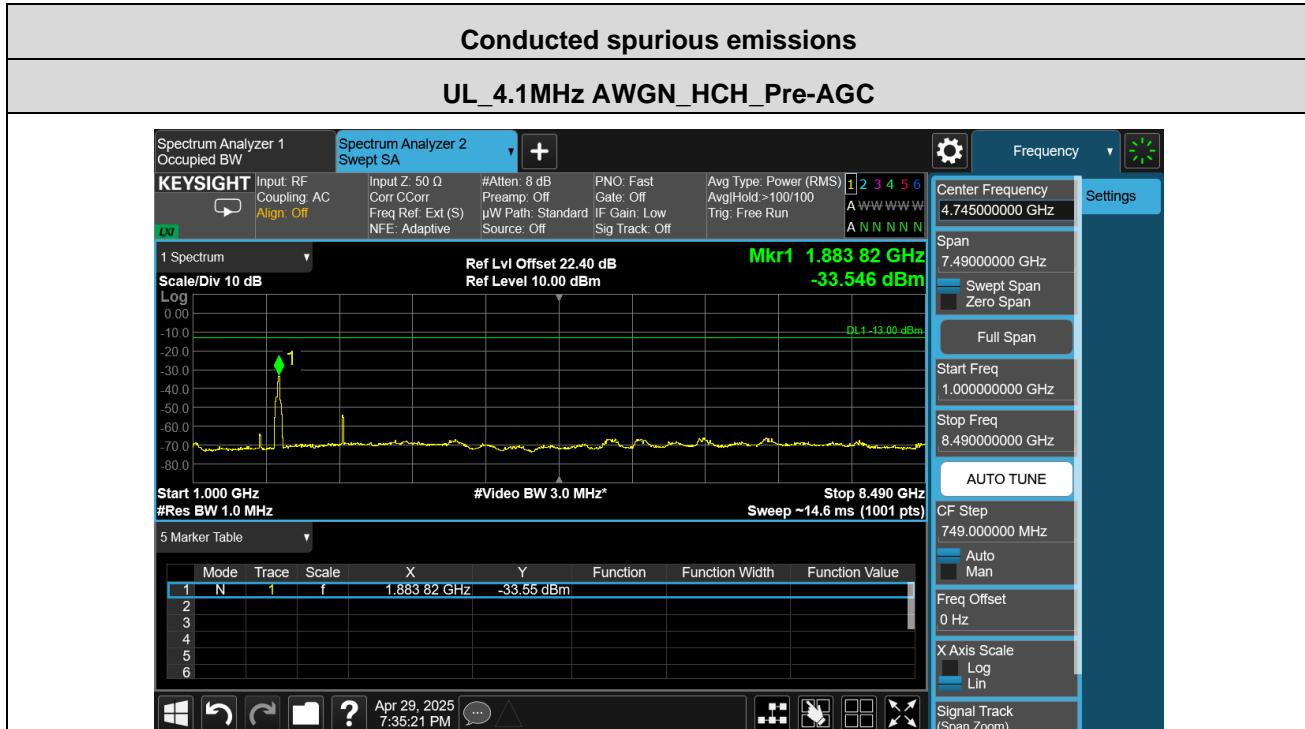
UL_4.1MHz AWGN_HCH_Pre-AGC



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6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	MCH	4.1MHz AWGN	TN	VL	5.8	0.00693	PASS
			TN	VH	5.8	0.00693	PASS
		100MHz AWGN	TN	VL	6.0	0.00717	PASS
			TN	VH	6.0	0.00717	PASS
		GSM	TN	VL	4.8	0.00574	PASS
			TN	VH	4.8	0.00574	PASS



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Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	MCH	4.1MHz AWGN	VN	+50	6.4	0.00765	PASS
			VN	+40	5.2	0.00622	PASS
			VN	+30	7.4	0.00885	PASS
			VN	+20	5.2	0.00622	PASS
			VN	+10	5.6	0.00669	PASS
			VN	0	7.2	0.00861	PASS
			VN	-10	7.4	0.00885	PASS
			VN	-20	7.9	0.00944	PASS
			VN	-30	6.5	0.00777	PASS
UL	MCH	100MHz AWGN	VN	+50	6.4	0.00765	PASS
			VN	+40	5.8	0.00693	PASS
			VN	+30	5.3	0.00634	PASS
			VN	+20	7.2	0.00861	PASS
			VN	+10	4.3	0.00514	PASS
			VN	0	7.8	0.00932	PASS
			VN	-10	4.6	0.00550	PASS
			VN	-20	7.3	0.00873	PASS
			VN	-30	7.9	0.00944	PASS
UL	MCH	GSM	VN	+50	5.0	0.00598	PASS
			VN	+40	7.5	0.00897	PASS
			VN	+30	4.1	0.00490	PASS
			VN	+20	4.9	0.00586	PASS
			VN	+10	5.9	0.00705	PASS
			VN	0	5.8	0.00693	PASS
			VN	-10	4.5	0.00538	PASS
			VN	-20	6.8	0.00813	PASS
			VN	-30	5.8	0.00693	PASS

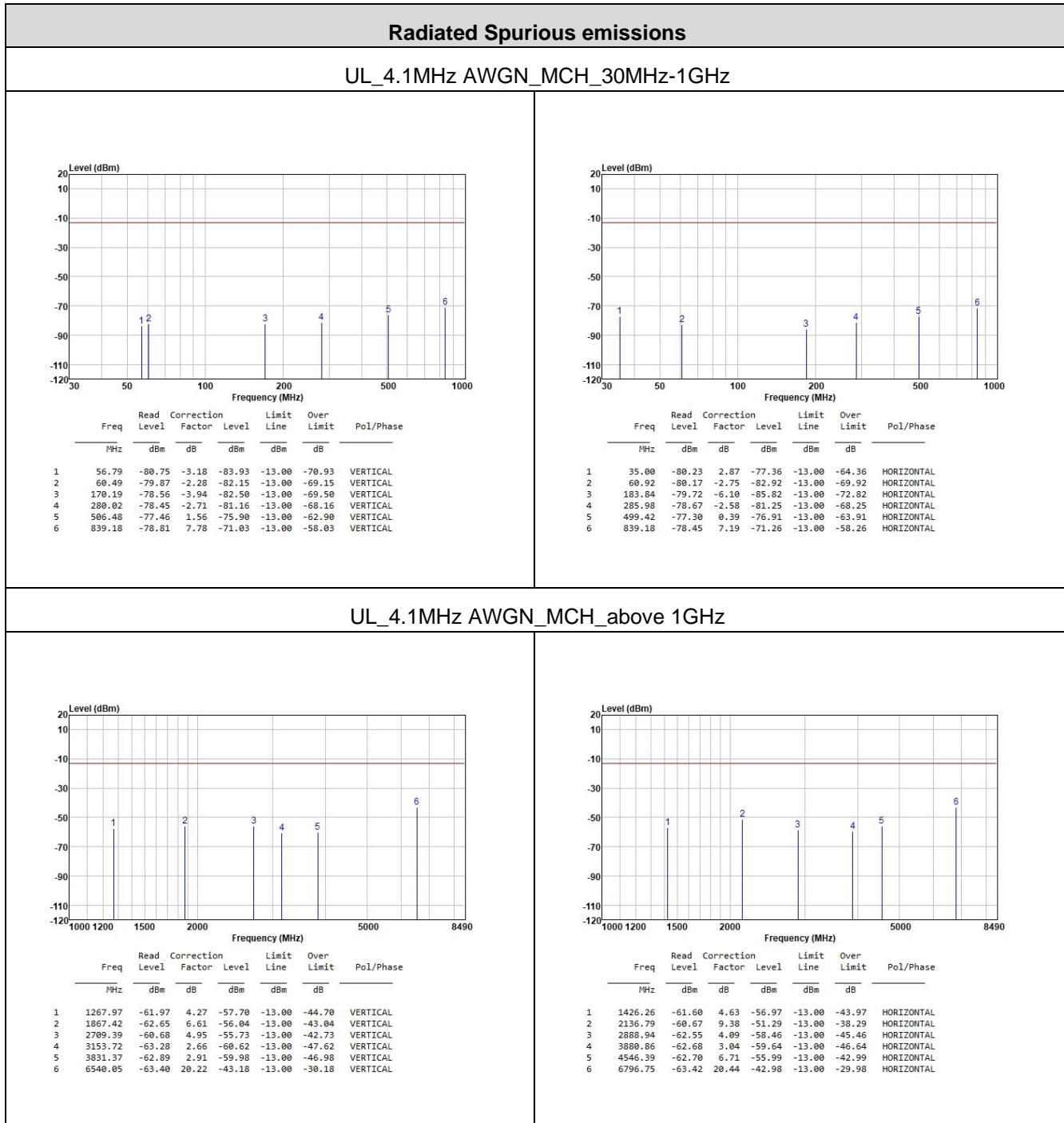
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7 Radiated Spurious emissions



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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 were very low and not displayed in this report. Therefore, only show the worst-case in this report. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.

--End of Appendix--

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