

Appendix -

Test Data and Result for report

GZCR250300027208

(For BRS/EBS Band UL)



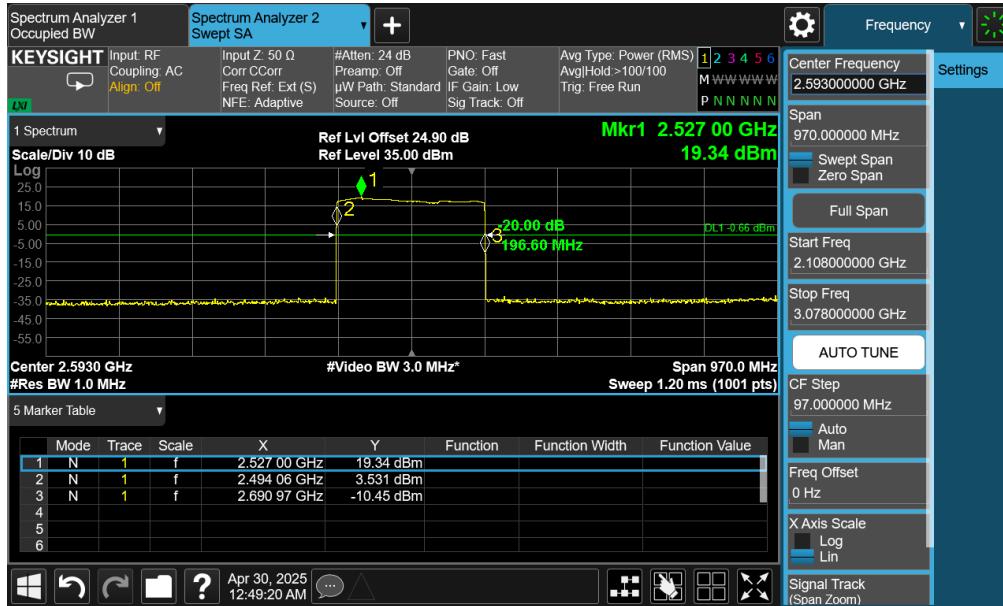
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1 Out-of-band rejection

Out-of-band rejection

UL



Remark:

1. The peak of the frequency response f0 is 2527.0MHz.
2. The frequency point f0 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	-57.80dBm
	100MHz AWGN	MCH	-57.80dBm
	GSM	MCH	-57.80dBm



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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:
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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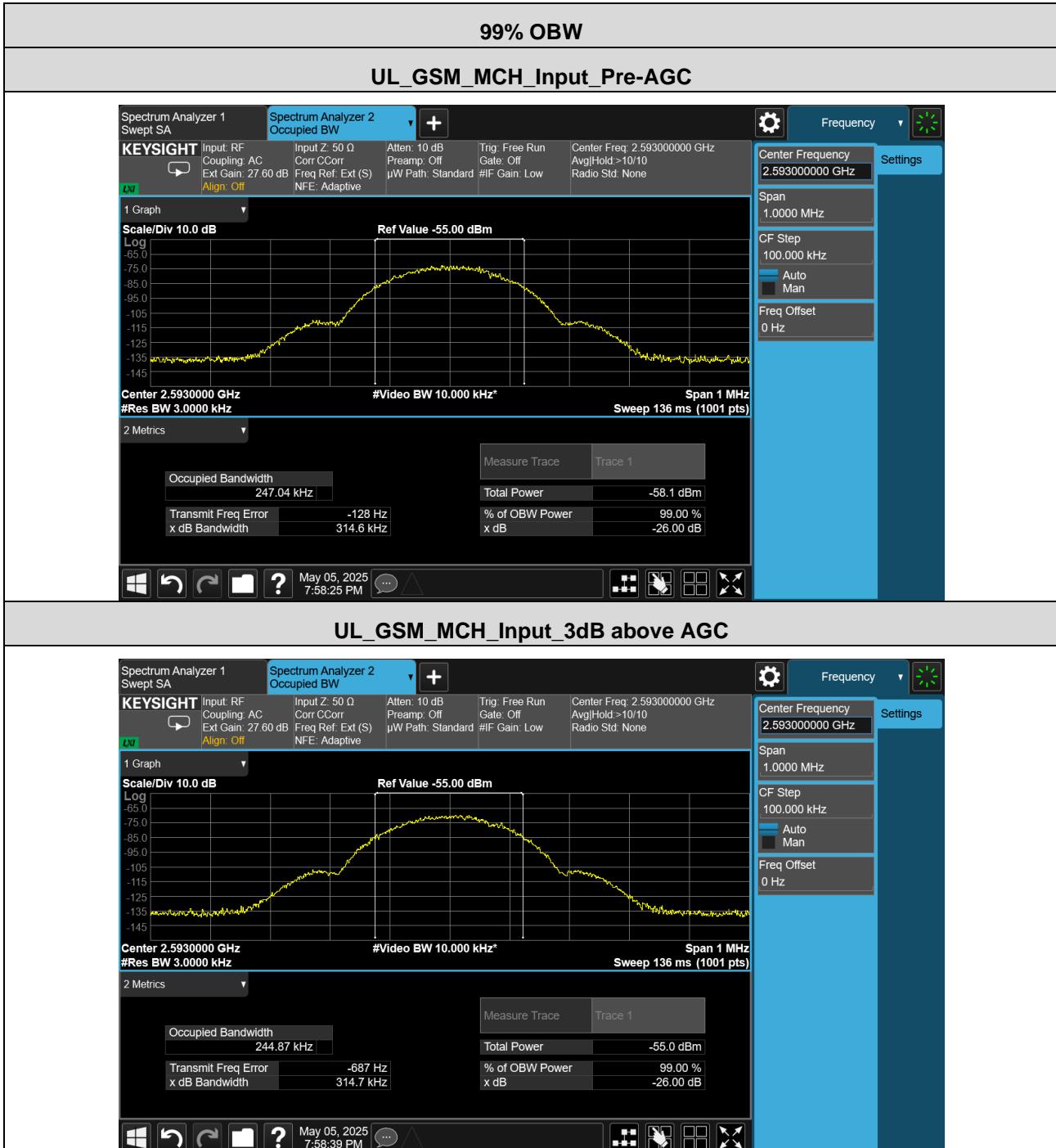


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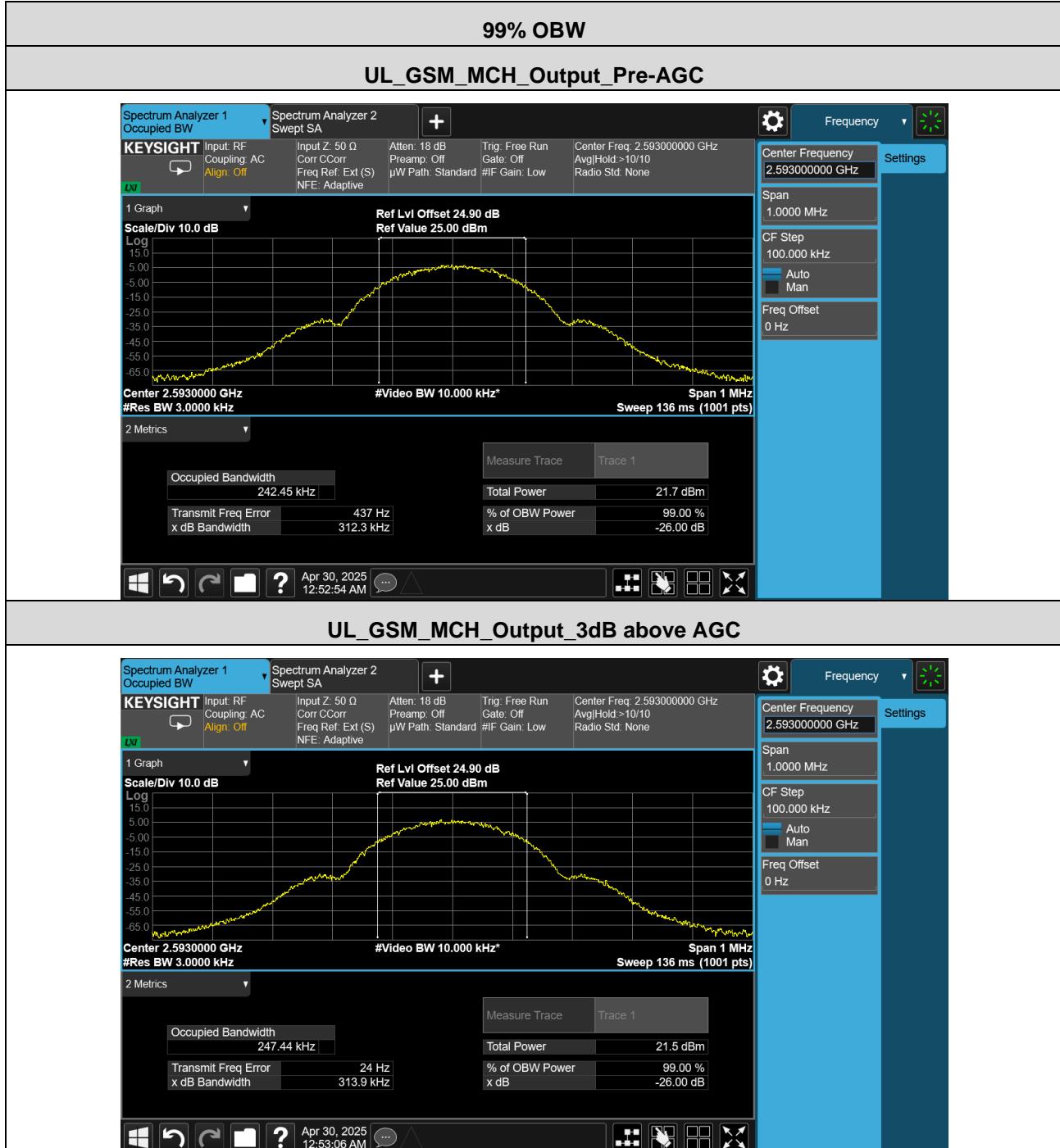
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3 Output power and amplifier/booster gain

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)	Verdict
UL	2527.0	4.1MHz AWGN	Pre-AGC	-58	21.77	35.77	3.78	79.77	PASS
			3dB above AGC	-55	21.60	35.60	3.64	/	PASS
		100MHz AWGN	Pre-AGC	-58	22.19	36.19	4.16	80.19	PASS
			3dB above AGC	-55	22.33	36.33	4.30	/	PASS
		GSM	Pre-AGC	-58	21.86	35.86	3.86	79.86	PASS
			3dB above AGC	-55	21.63	35.63	3.66	/	PASS

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 14dBi declared by the manufacturer.
3. For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern:
 $EIRP \leq 33dBW + 10\lg(X/Y) dBW + 10\lg(360/beamwidth)$
 dBW= $1995W + 10\lg(X/Y) dBW + 10\lg(360/beamwidth)$
 For other main or booster:
 $EIRP \leq 33dBW + 10\lg(X/Y) dBW = 1995W + 10\lg(X/Y) dBW$
 where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition.

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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	-23.05	≤-13	PASS	
				3dB above AGC	-23.55		PASS	
			Two signals input	Pre-AGC	-17.17		PASS	
				3dB above AGC	-16.96		PASS	
	HCH		One signal input	Pre-AGC	-20.15		PASS	
				3dB above AGC	-20.51		PASS	
			Two signals input	Pre-AGC	-16.11		PASS	
				3dB above AGC	-15.53		PASS	
UL	LCH	100MHz AWGN	One signal input	Pre-AGC	-15.78	≤-13	PASS	
				3dB above AGC	-15.51		PASS	
			Two signals input	Pre-AGC	-17.72		PASS	
				3dB above AGC	-17.23		PASS	
	HCH		One signal input	Pre-AGC	-15.04		PASS	
				3dB above AGC	-14.43		PASS	
			Two signals input	Pre-AGC	-18.38		PASS	
				3dB above AGC	-17.91		PASS	
UL	LCH	GSM	One signal input	Pre-AGC	-34.61	≤-13	PASS	
				3dB above AGC	-32.67		PASS	
			Two signals input	Pre-AGC	-32.98		PASS	
				3dB above AGC	-32.88		PASS	
	HCH		One signal input	Pre-AGC	-28.95		PASS	
				3dB above AGC	-29.08		PASS	
			Two signals input	Pre-AGC	-30.77		PASS	
				3dB above AGC	-29.85		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,
 $P = 22\text{dBm} = 0.16\text{W}$
the limit= $22\text{dBm} - [43 + 10\log_{10}(0.16\text{W})]\text{dB} = -13\text{dBm}$



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

UL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



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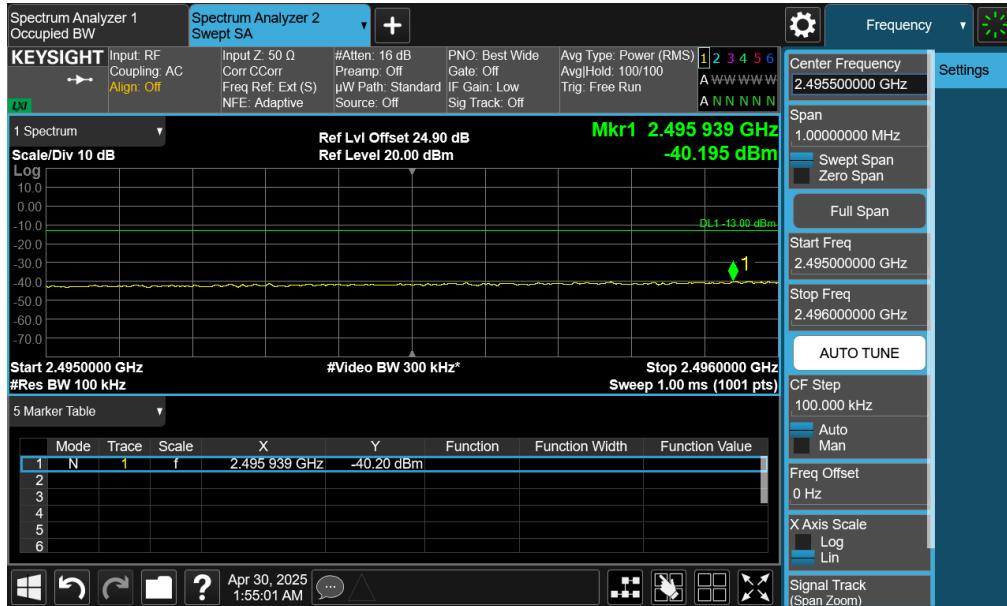
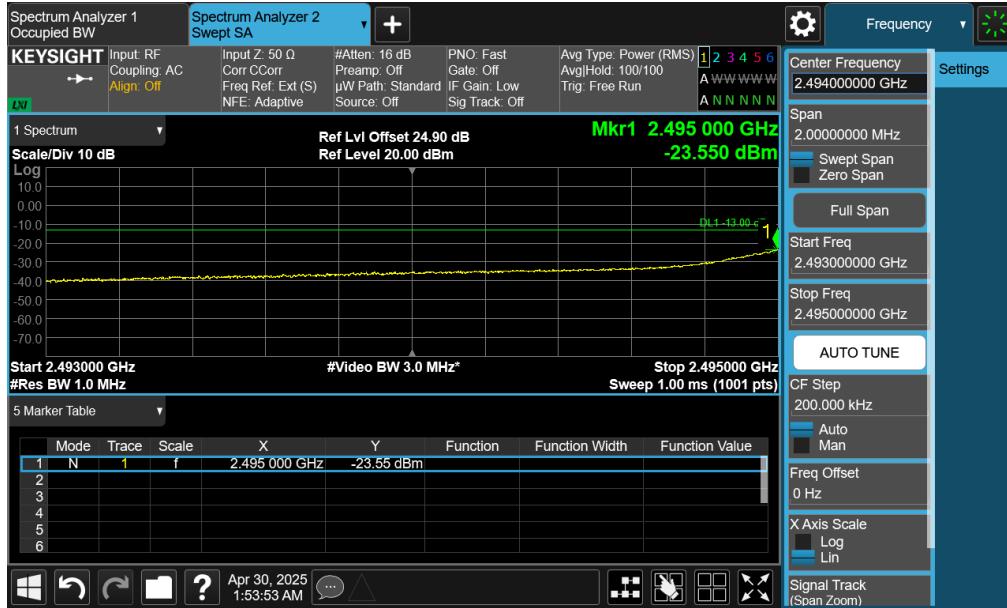
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



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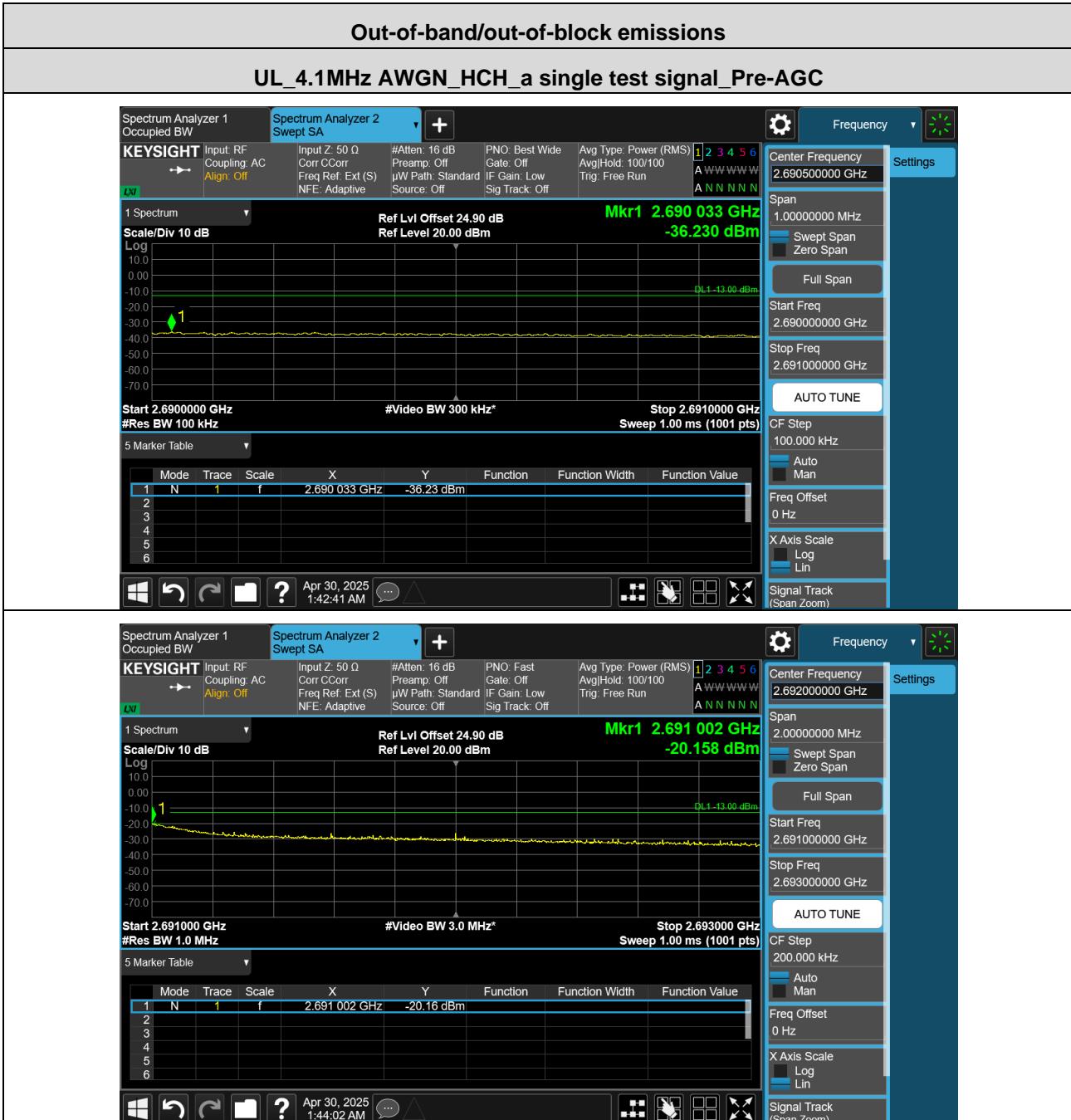


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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



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

UL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



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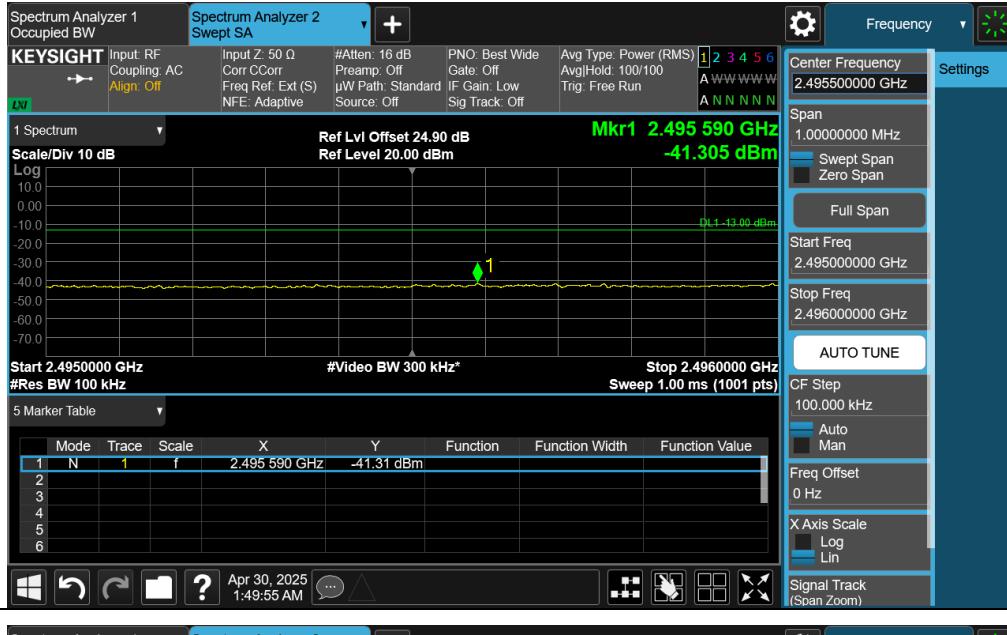
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



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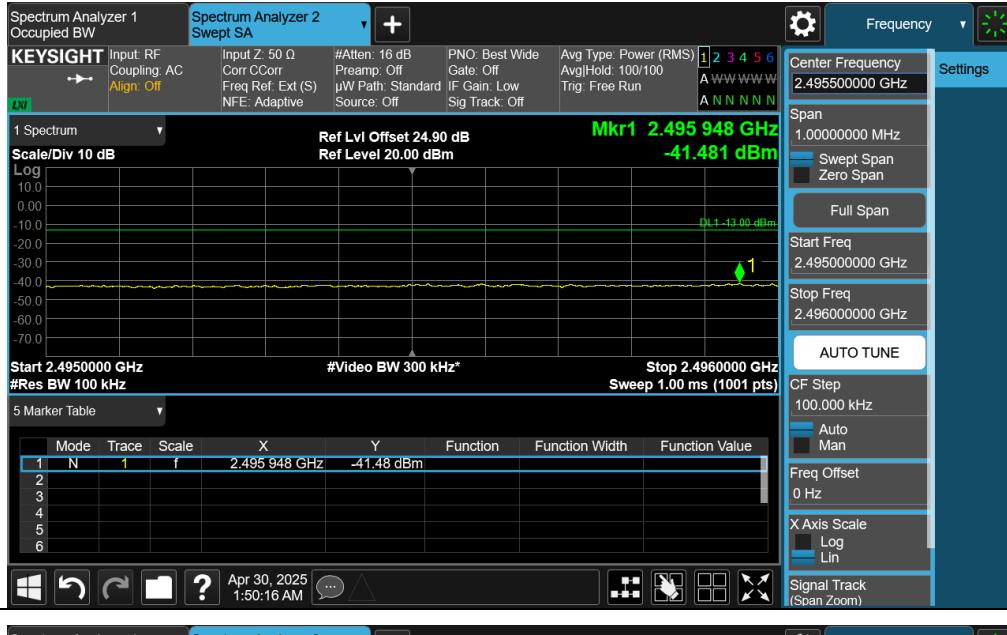
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC



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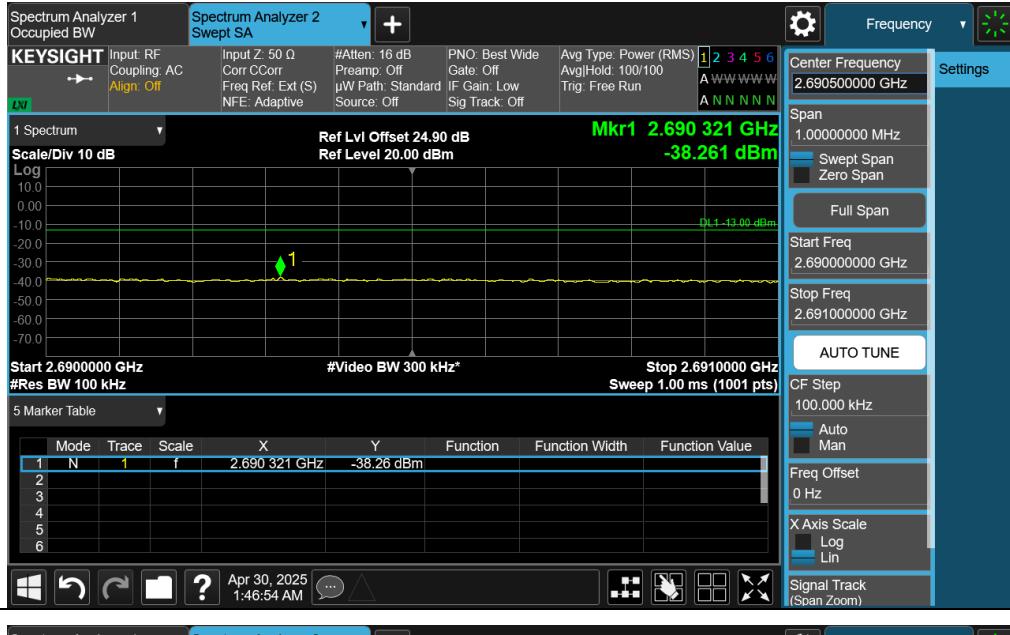


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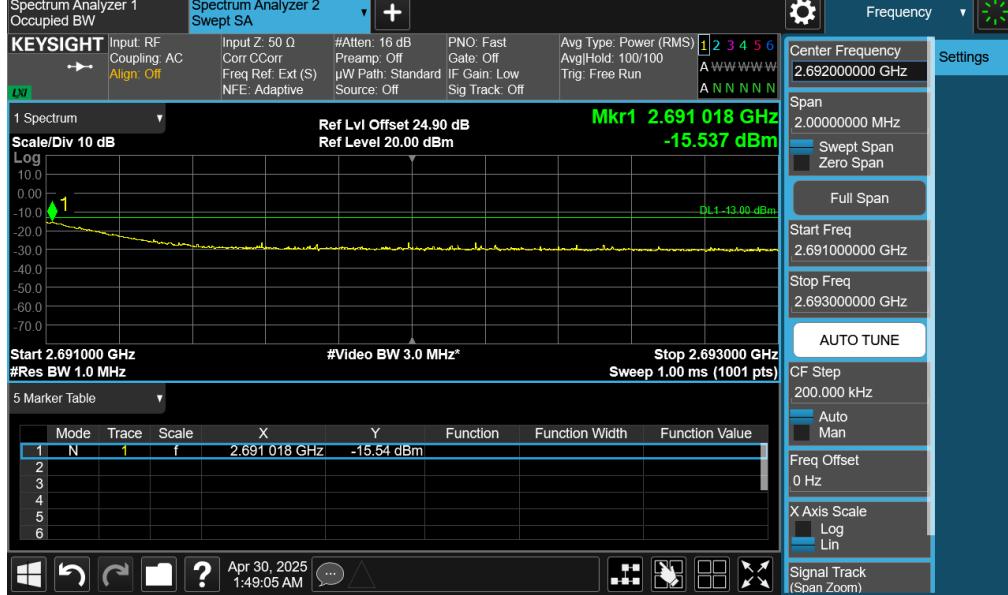


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Out-of-band/out-of-block emissions

UL_100MHz AWGN_LCH_a single test signal_Pre-AGC



UL_100MHz AWGN_LCH_a single test signal_3dB above AGC



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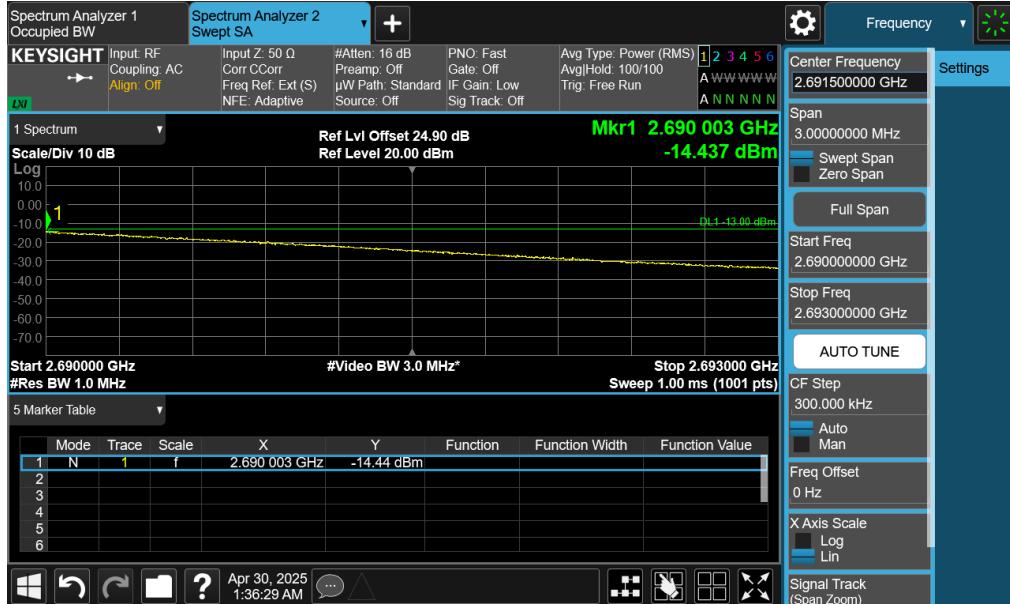
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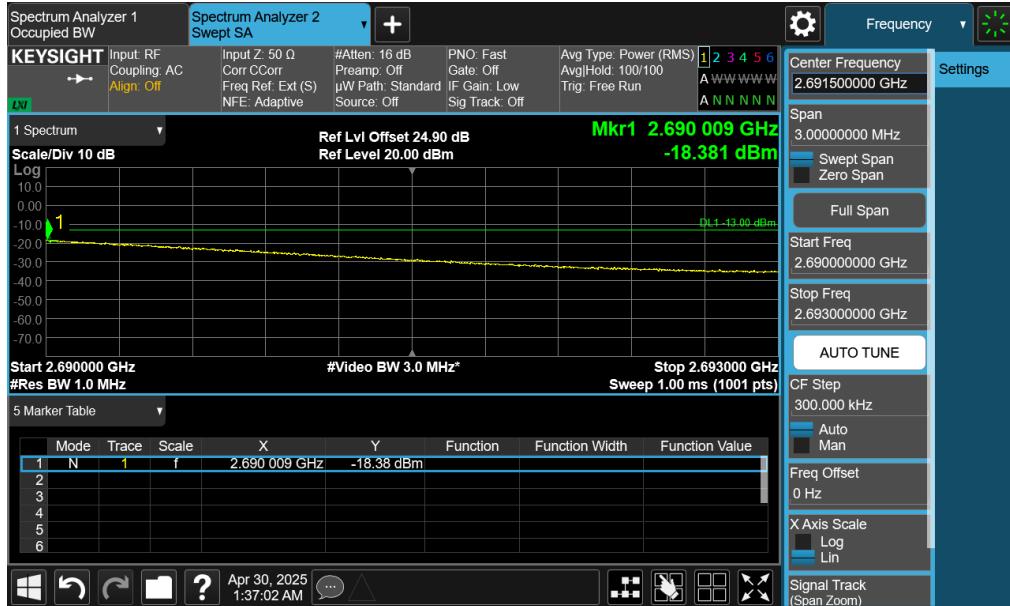


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Out-of-band/out-of-block emissions

UL_GSM_LCH_a single test signal_Pre-AGC



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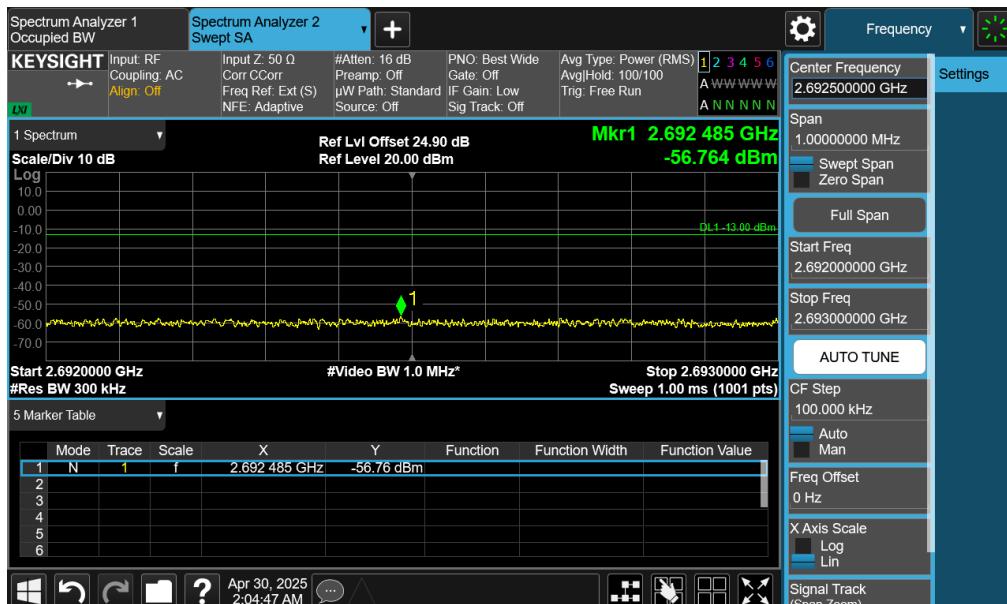
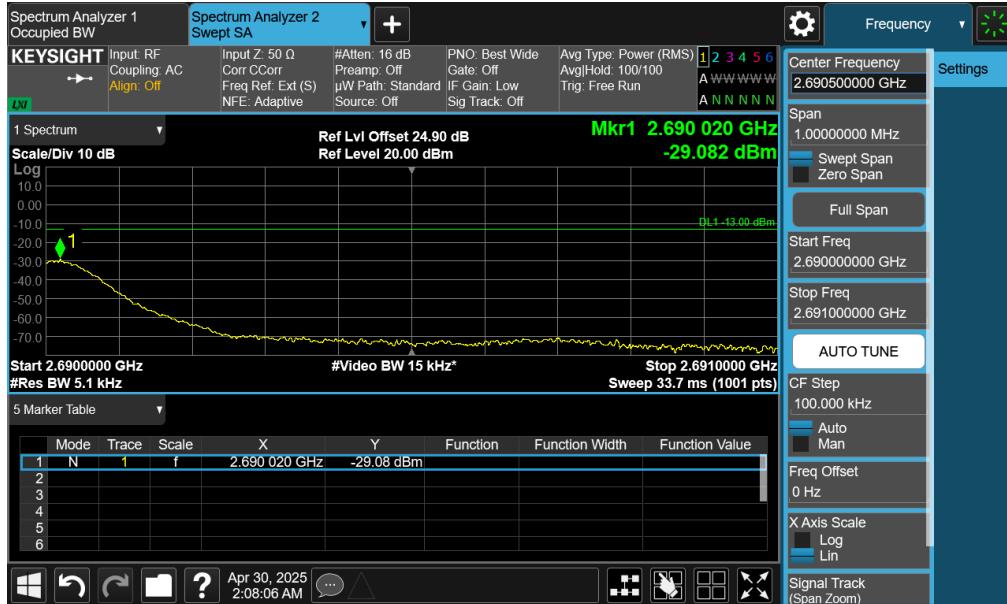
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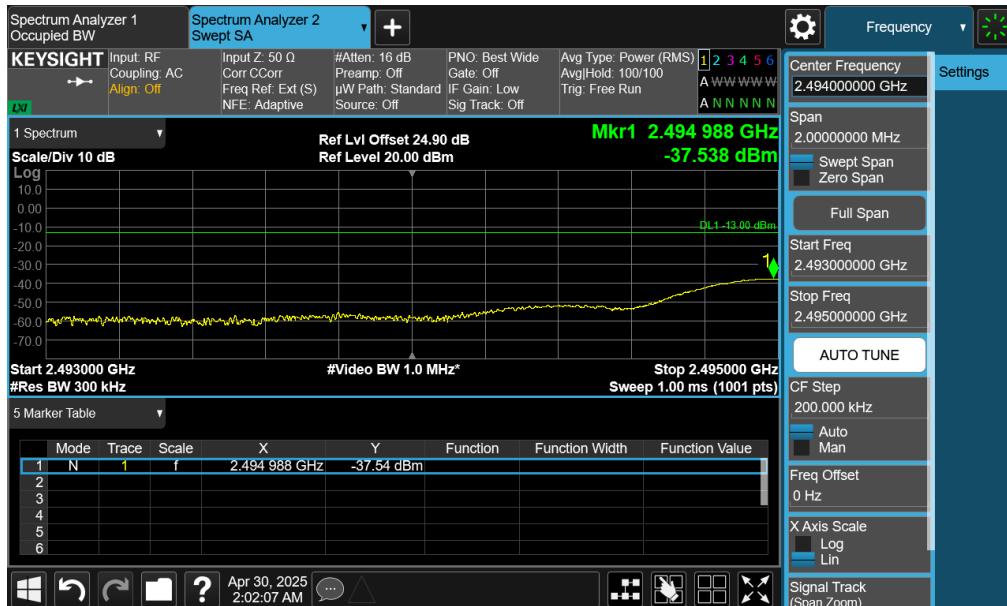


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5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
UL	4.1MHz AWGN	LCH	0.09-1000	-73.57	≤-13	PASS
			1000-2495	-19.44	≤-13	PASS
		HCH	2691-26900	-19.44	≤-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,
 $P = 22\text{dBm} = 0.16\text{W}$
 $\text{limit} = 22\text{dBm} - [43 + 10\log_{10}(0.16\text{W})]\text{dB} = -13\text{dBm}$
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 and above 20GHz were very low and not displayed test plots in this report.



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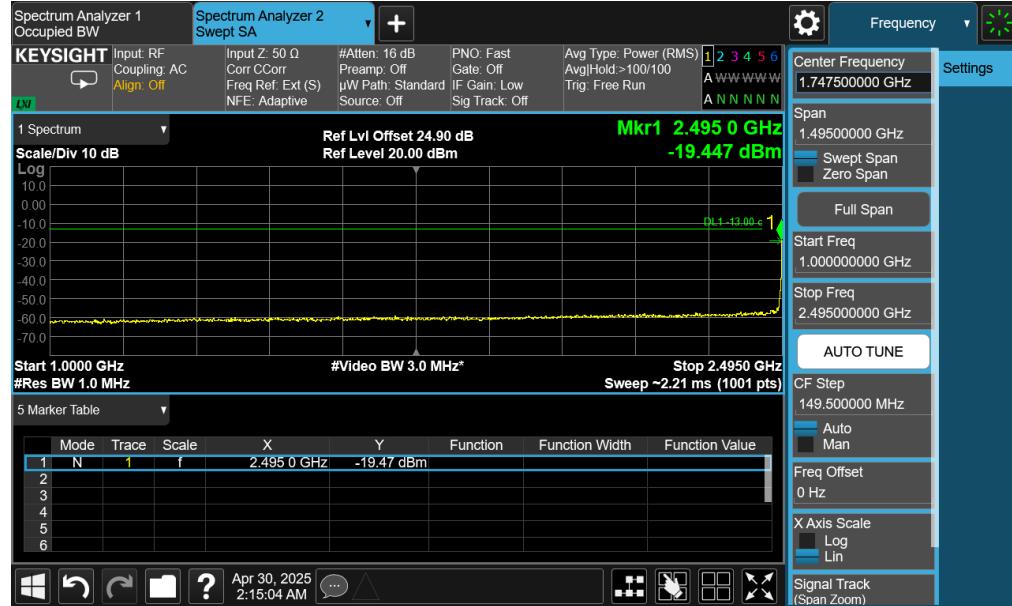
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Conducted spurious emissions

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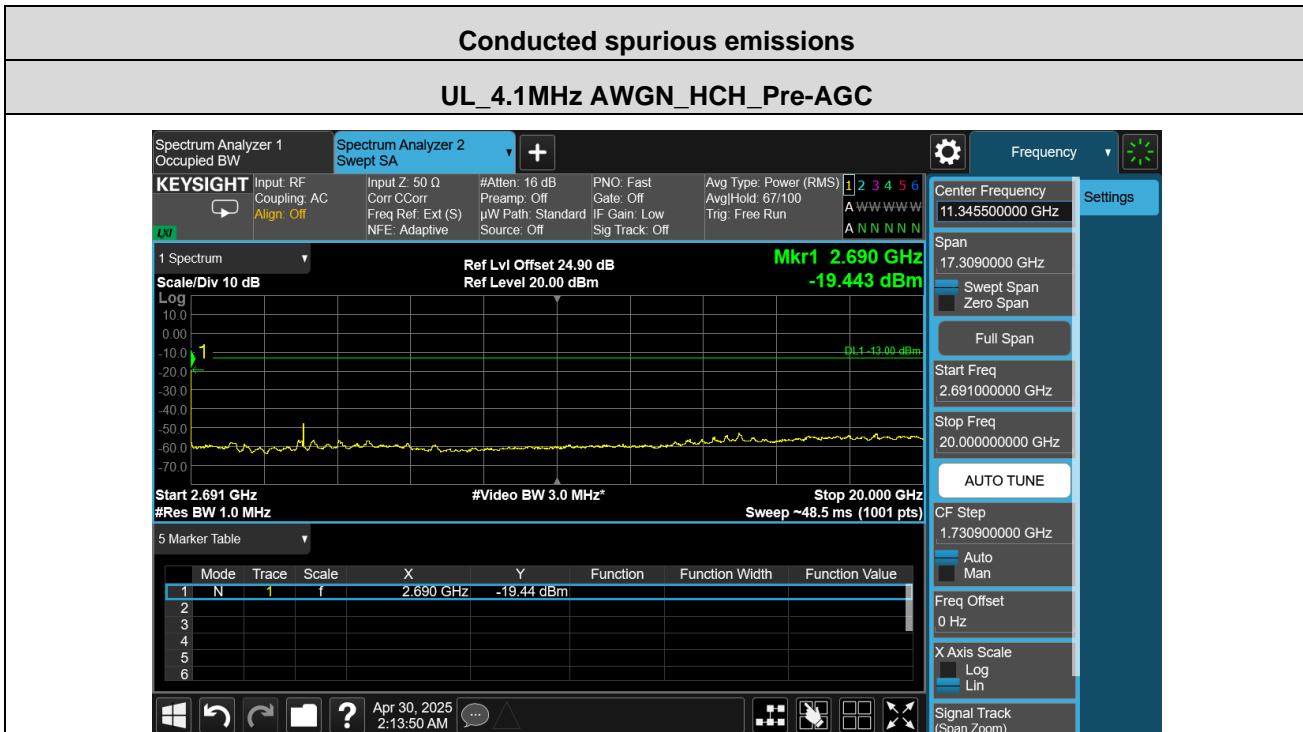
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6 Frequency Stability

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	7.9	0.00305	PASS
			TN	VH	7.9	0.00305	PASS
		100MHz AWGN	TN	VL	7.2	0.00278	PASS
			TN	VH	7.2	0.00278	PASS
		GSM	TN	VL	8.4	0.00324	PASS
			TN	VH	8.4	0.00324	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	0.00247	PASS
			VN	+40	8.1	0.00312	PASS
			VN	+30	6.9	0.00266	PASS
			VN	+20	7.1	0.00274	PASS
			VN	+10	8.0	0.00309	PASS
			VN	0	7.9	0.00305	PASS
			VN	-10	4.4	0.00170	PASS
			VN	-20	6.6	0.00255	PASS
			VN	-30	6.4	0.00247	PASS
UL	MCH	100MHz AWGN	VN	+50	4.3	0.00166	PASS
			VN	+40	8.2	0.00316	PASS
			VN	+30	5.5	0.00212	PASS
			VN	+20	5.0	0.00193	PASS
			VN	+10	5.7	0.00220	PASS
			VN	0	6.5	0.00251	PASS
			VN	-10	7.8	0.00301	PASS
			VN	-20	7.2	0.00278	PASS
			VN	-30	7.5	0.00289	PASS
UL	MCH	GSM	VN	+50	6.3	0.00243	PASS
			VN	+40	5.7	0.00220	PASS
			VN	+30	7.6	0.00293	PASS
			VN	+20	7.9	0.00305	PASS
			VN	+10	4.6	0.00177	PASS
			VN	0	6.7	0.00258	PASS
			VN	-10	4.7	0.00181	PASS
			VN	-20	5.5	0.00212	PASS
			VN	-30	5.9	0.00228	PASS

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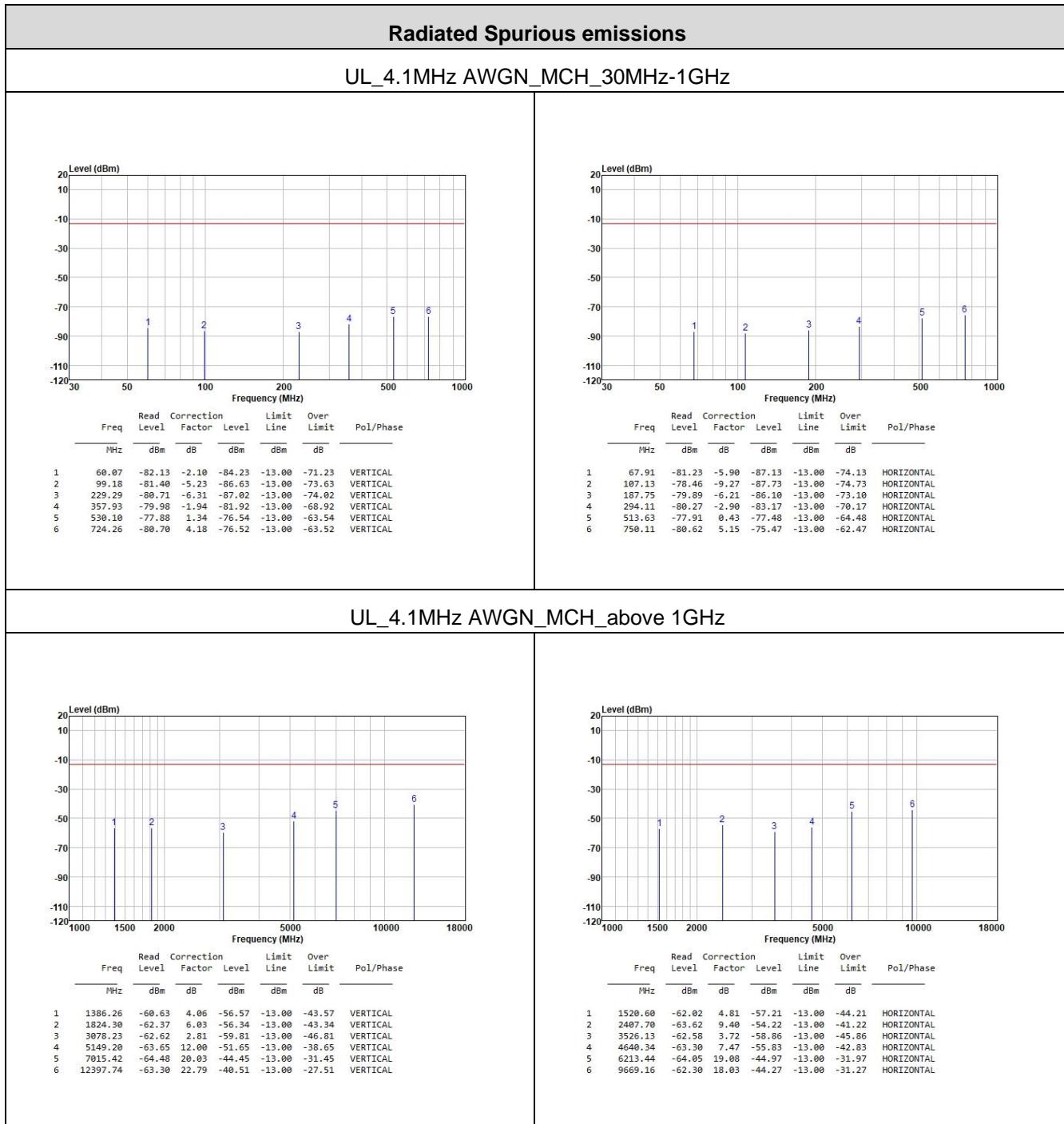
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7 Radiated Spurious emissions



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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 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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