



Appendix -

Test Data and Result for report

GZCR250300027210

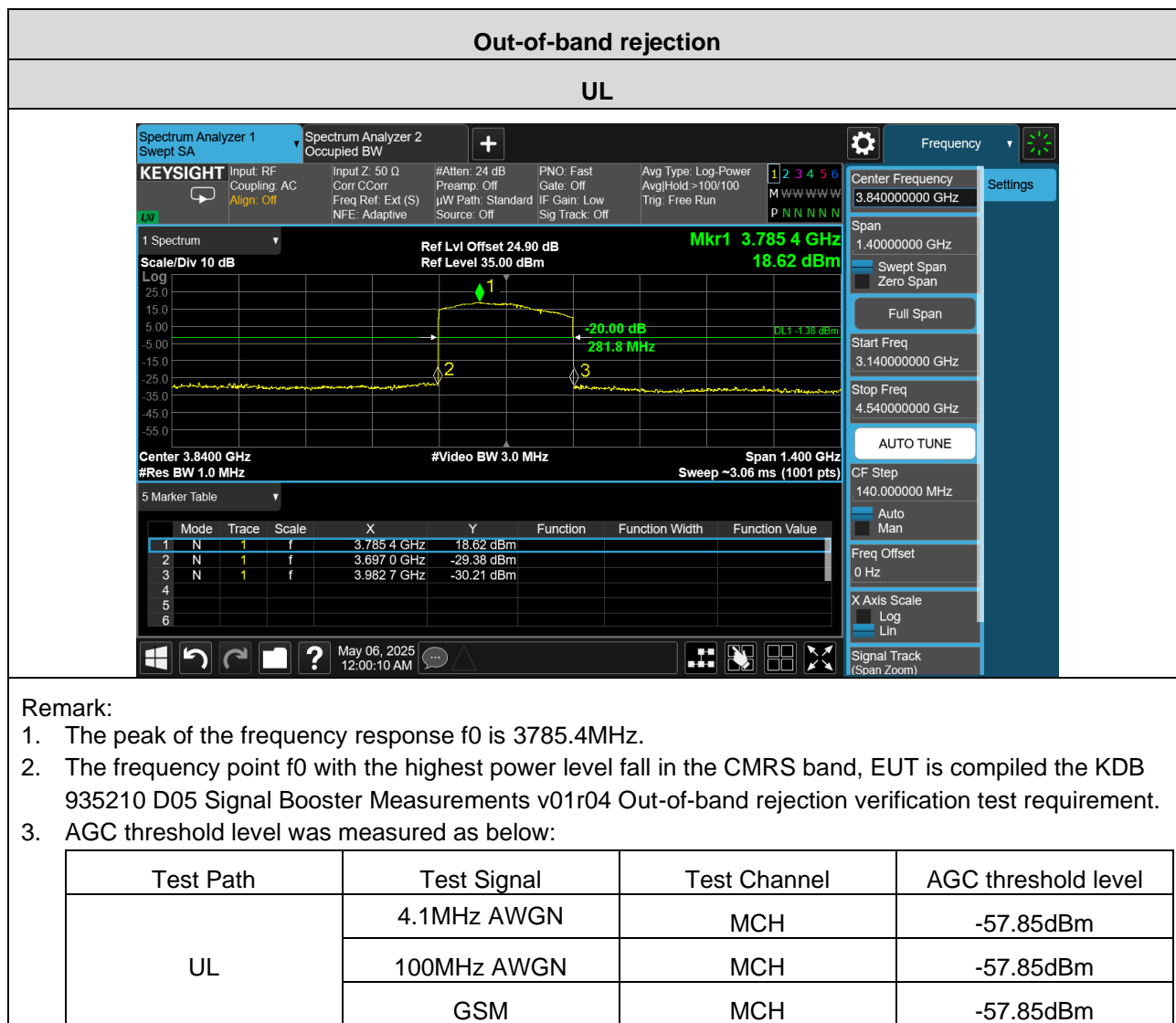
(For 3.7GHz Service Band UL)



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1 Out-of-band rejection



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.				

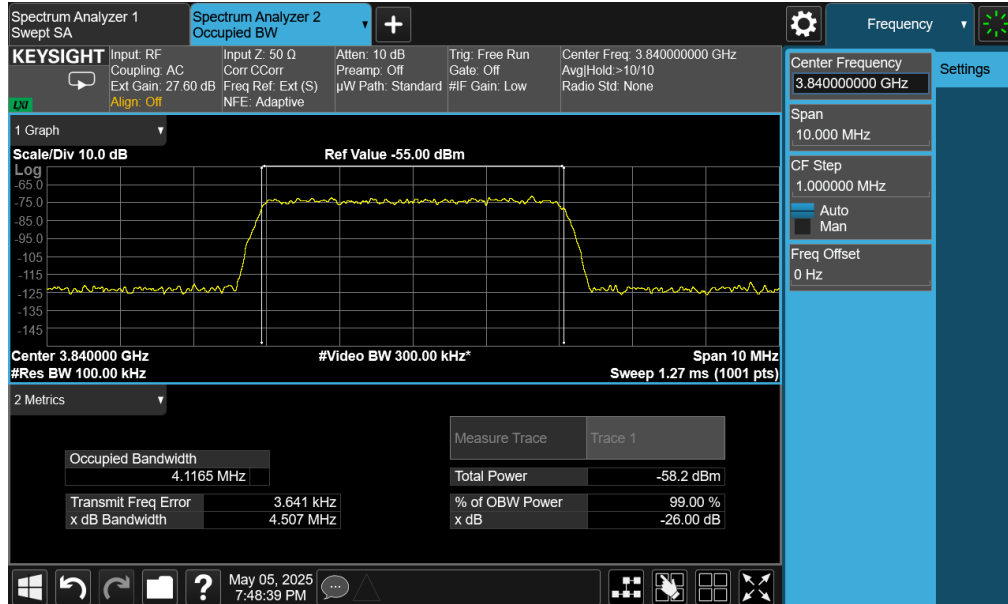


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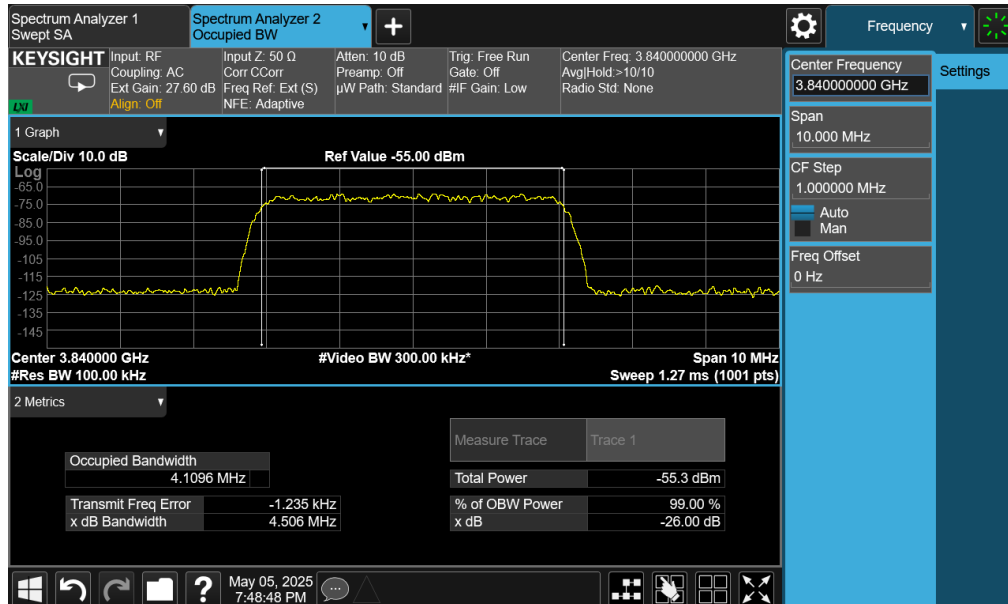
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UL_4.1MHz AWGN_MCH_Input_Pre-AGC



UL_4.1MHz AWGN_MCH_Input_3dB above AGC

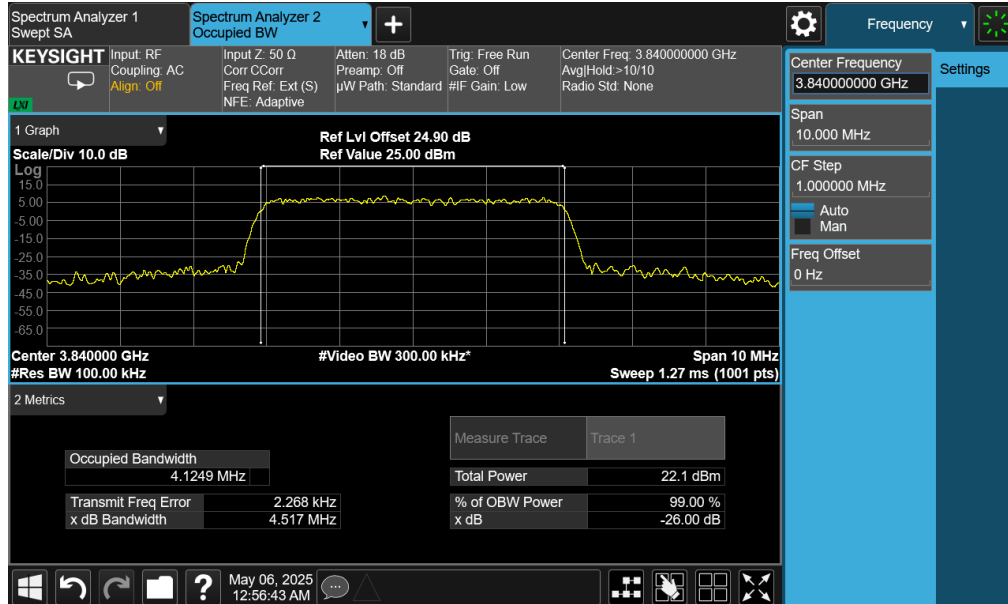


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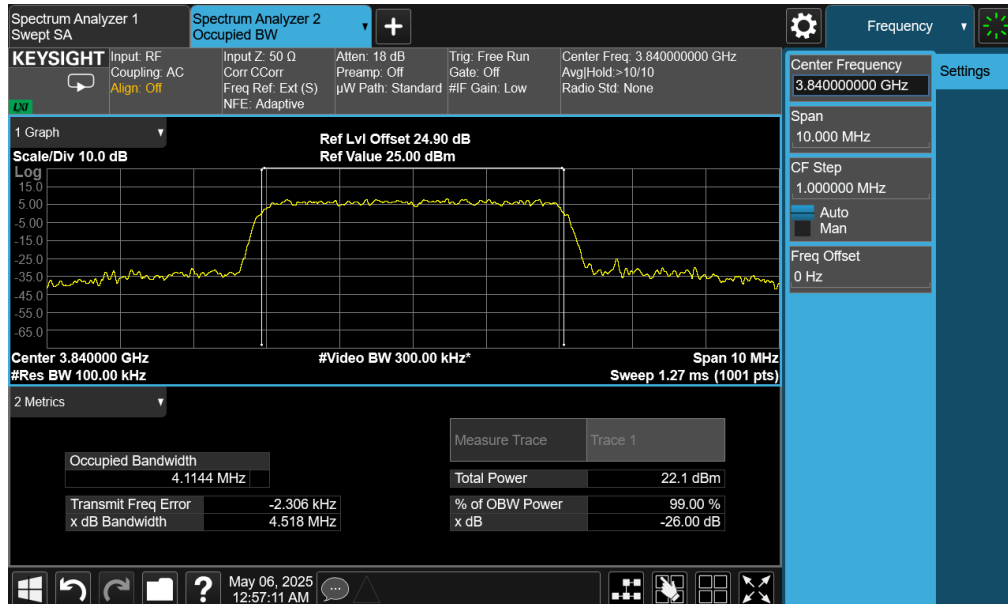
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UL_4.1MHz AWGN_MCH_Output_Pre-AGC



UL_4.1MHz AWGN_MCH_Output_3dB above AGC



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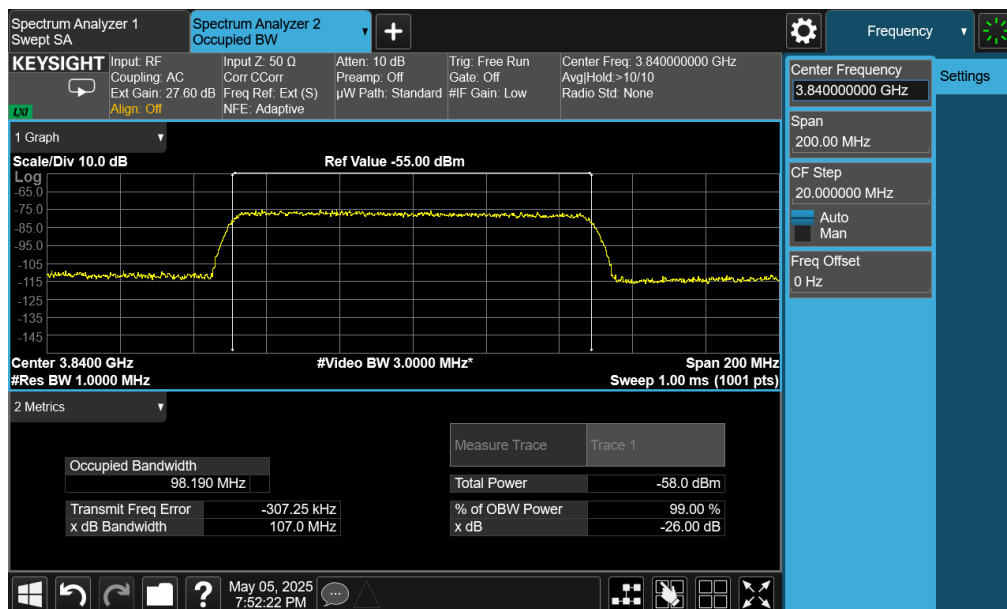
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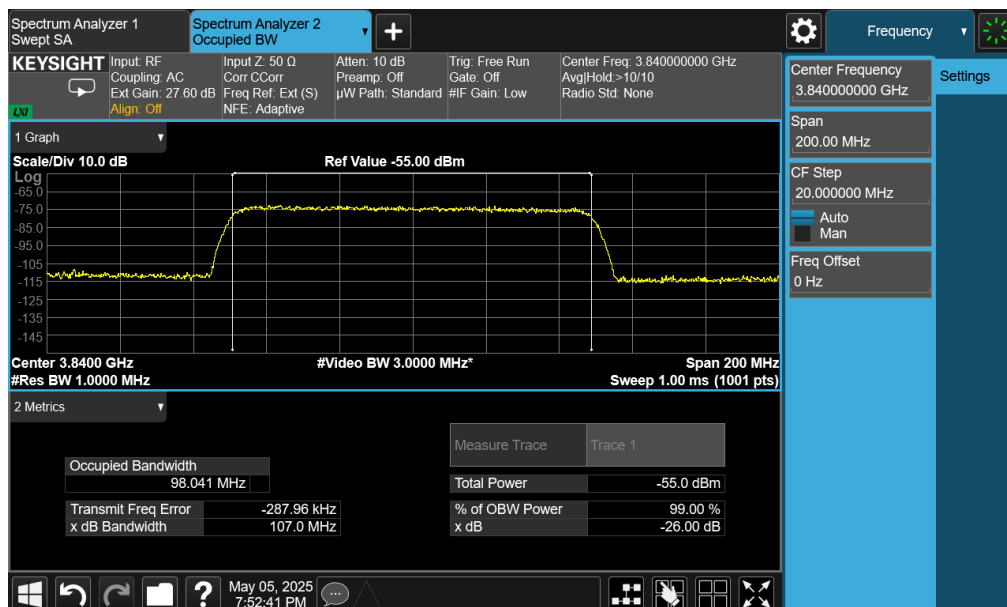
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UL_100MHz AWGN_MCH_Input_Pre-AGC



UL_100MHz AWGN_MCH_Input_3dB above AGC

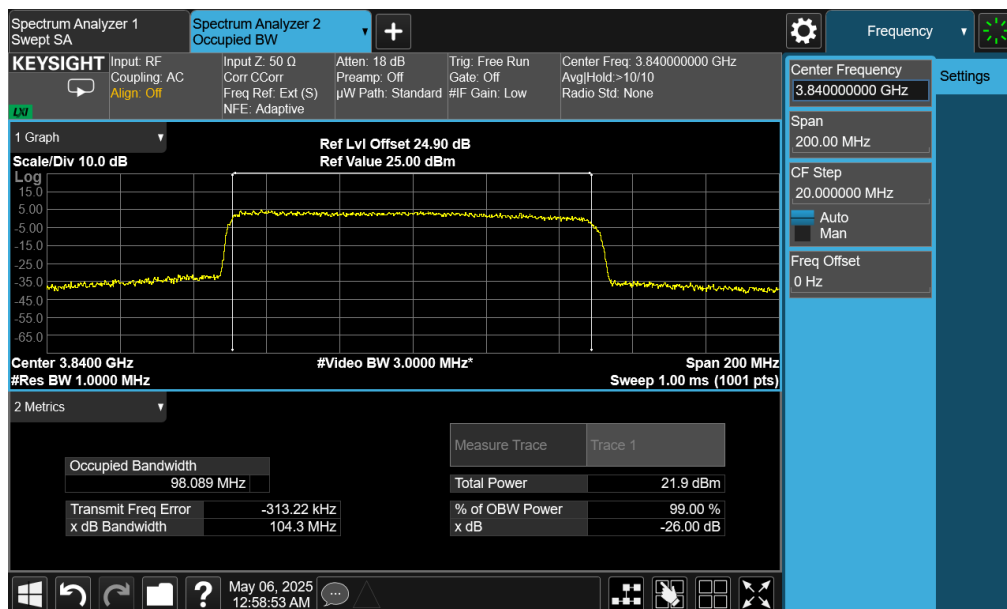


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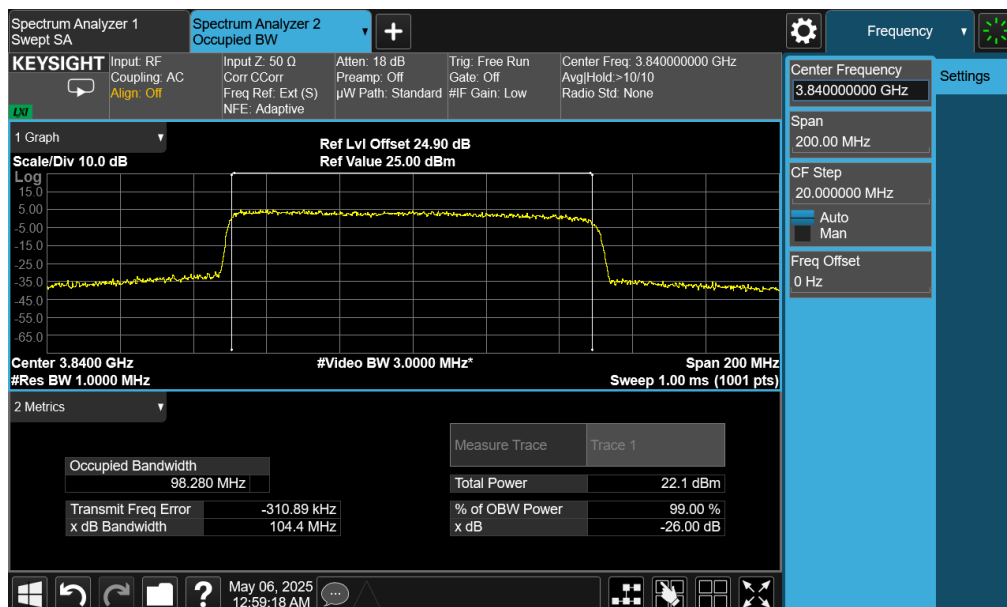
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UL_100MHz AWGN_MCH_Output_Pre-AGC



UL_100MHz AWGN_MCH_Output_3dB above AGC



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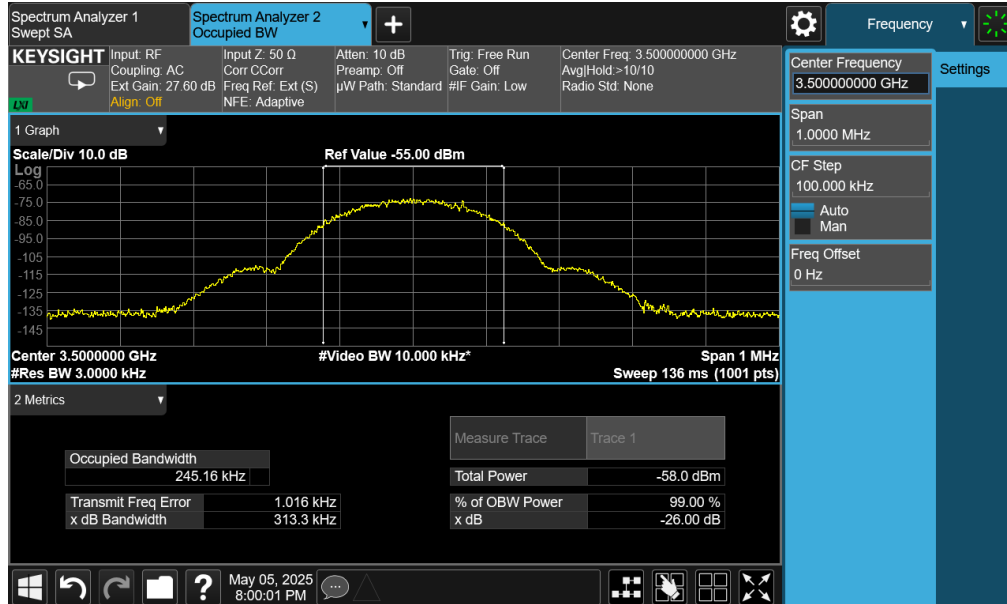
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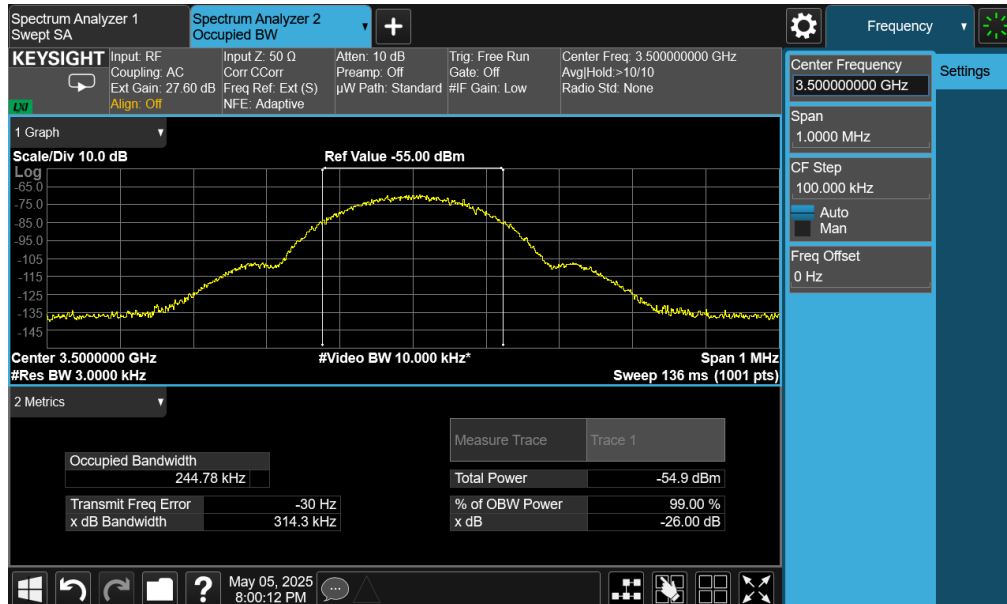
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UL_GSM_MCH_Input_Pre-AGC



UL_GSM_MCH_Input_3dB above AGC



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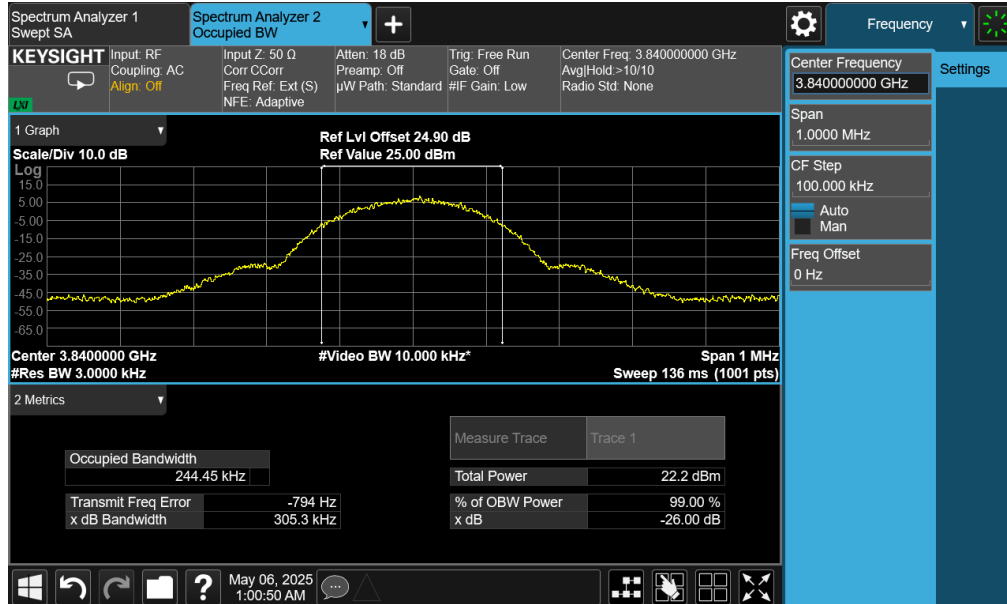
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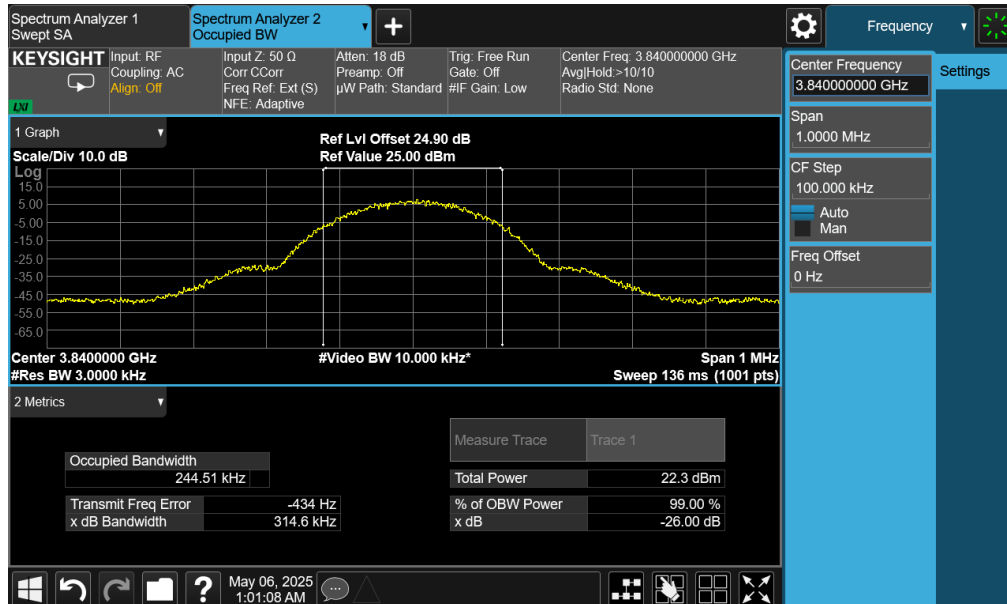
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UL_GSM_MCH_Output_Pre-AGC



UL_GSM_MCH_Output_3dB above AGC



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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)
UL	3785.4	4.1MHz AWGN	Pre-AGC	-58	22.27	36.27	4.24	80.27
			3dB above AGC	-55	22.75	36.75	4.74	/
		100MHz AWGN	Pre-AGC	-58	22.05	36.05	4.03	80.05
			3dB above AGC	-55	22.40	36.40	4.37	/
		GSM	Pre-AGC	-58	22.39	36.39	4.36	80.39
			3dB above AGC	-55	22.58	36.58	4.55	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 14dBi 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
UL	3785.4	4.1MHz AWGN	Pre-AGC	16.20	30.20	1.05	PASS
			3dB above AGC	16.64	30.64	1.16	PASS
		100MHz AWGN	Pre-AGC	2.15	16.15	0.05	PASS
			3dB above AGC	2.51	16.51	0.05	PASS
		GSM	Pre-AGC	22.39	36.39	4.36	PASS
			3dB above AGC	22.58	36.58	4.55	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 14dBi declared by the manufacturer.
- The output power is limited to an EIRP of 1640W/MHz.

Peak-to-average ratio (PAR)						
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	PAR (dB)	Limit (dB)	Verdict
UL	3785.4	4.1MHz AWGN	Pre-AGC	8.39	≤13	PASS
			3dB above AGC	8.10		PASS
		100MHz AWGN	Pre-AGC	8.52		PASS
			3dB above AGC	8.37		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 were record in the report to demonstrate PAR compliance.						



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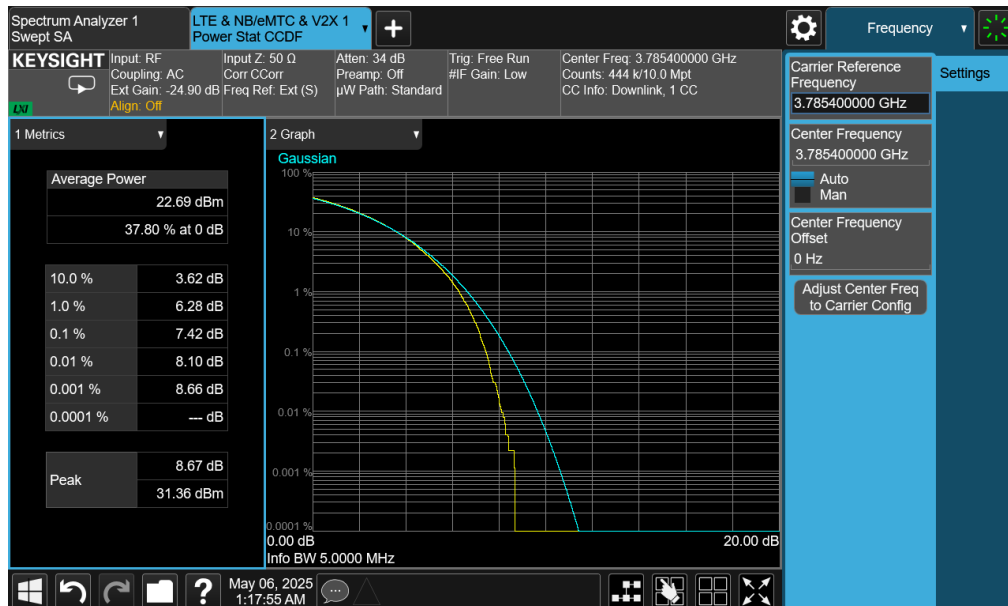
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Peak-to-average ratio (PAR)

UL_4.1MHz AWGN_Pre-AGC



UL_4.1MHz AWGN_3dB above AGC

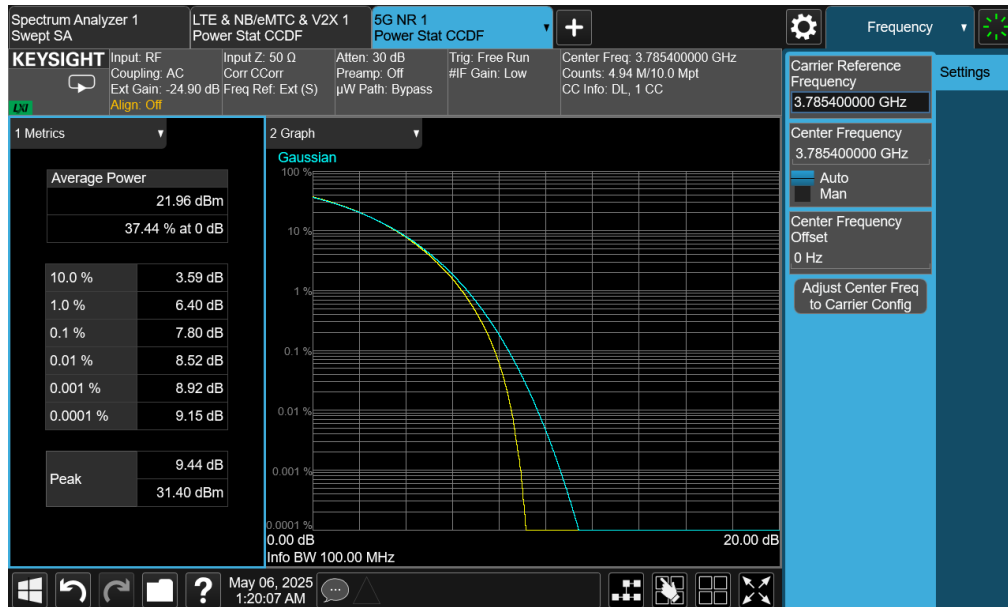


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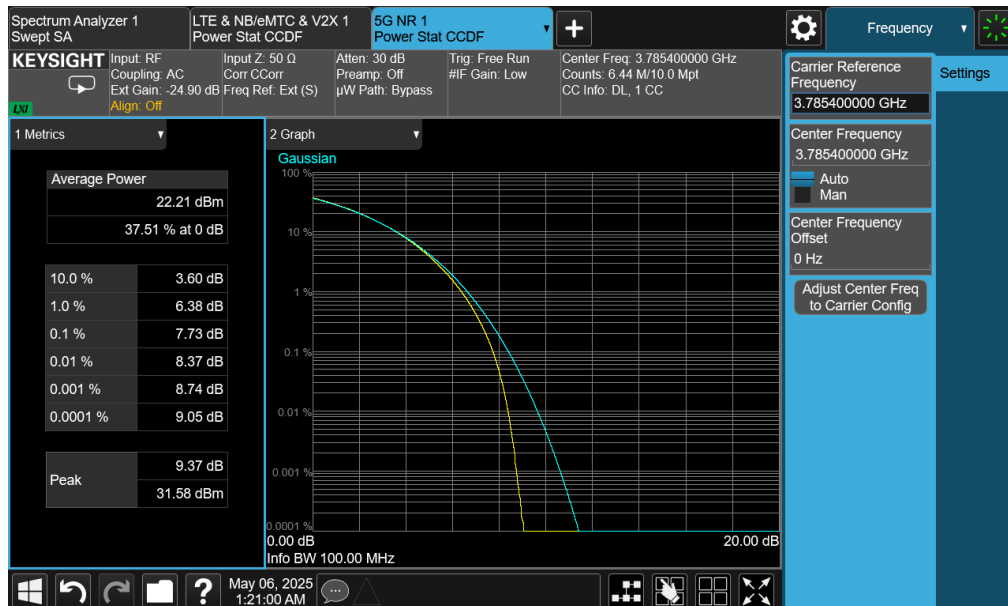
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Peak-to-average ratio (PAR)

UL_100MHz AWGN_Pre-AGC



UL_100MHz AWGN_3dB above AGC



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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/MHz)	Verdict
UL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-24.45	≤-13	PASS
				3dB above AGC	-23.99		PASS
			Two signals input	Pre-AGC	-28.02		PASS
				3dB above AGC	-27.85		PASS
	HCH		One signal input	Pre-AGC	-28.17		PASS
				3dB above AGC	-27.93		PASS
			Two signals input	Pre-AGC	-31.96		PASS
				3dB above AGC	-31.75		PASS
UL	LCH	100MHz AWGN	One signal input	Pre-AGC	-15.19	≤-13	PASS
	3dB above AGC			-14.61	PASS		
	HCH		One signal input	Pre-AGC	-16.54		PASS
				3dB above AGC	-15.71		PASS
UL	LCH	GSM	One signal input	Pre-AGC	-14.73	≤-13	PASS
				3dB above AGC	-14.56		PASS
			Two signals input	Pre-AGC	-17.64		PASS
				3dB above AGC	-17.55		PASS
	HCH		One signal input	Pre-AGC	-14.32		PASS
				3dB above AGC	-14.23		PASS
			Two signals input	Pre-AGC	-17.04		PASS
				3dB above AGC	-16.80		PASS

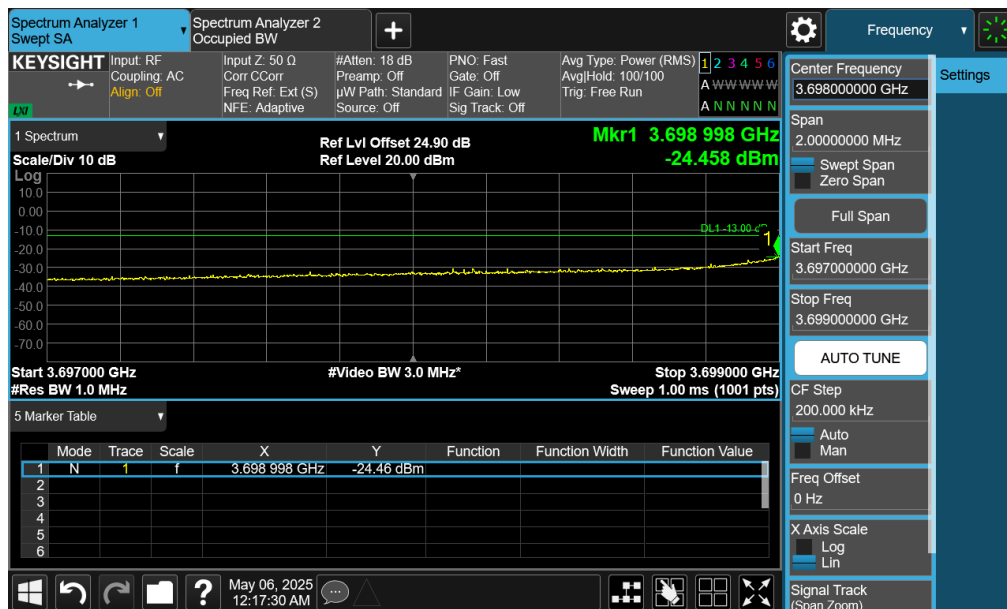
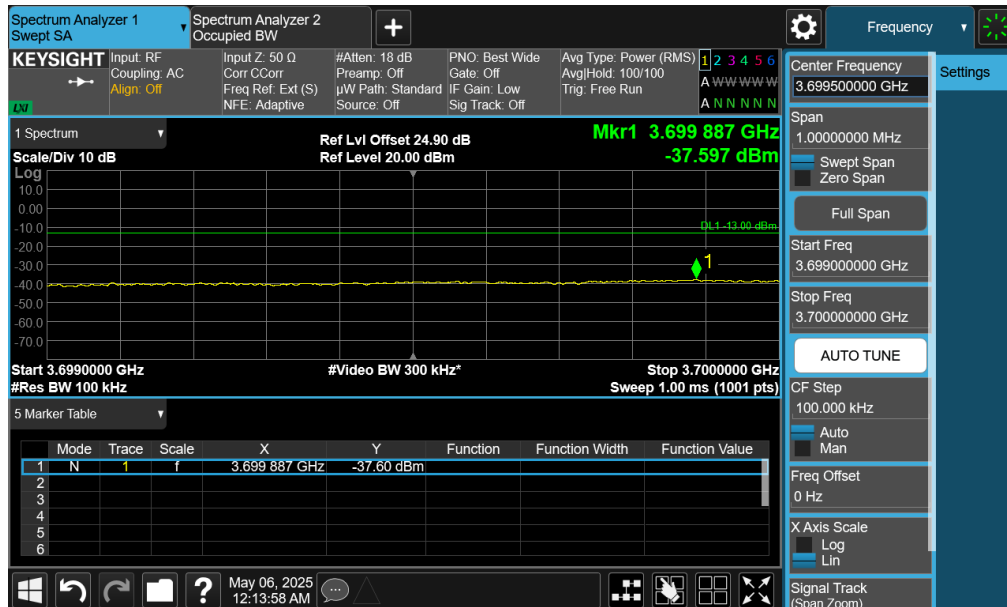


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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



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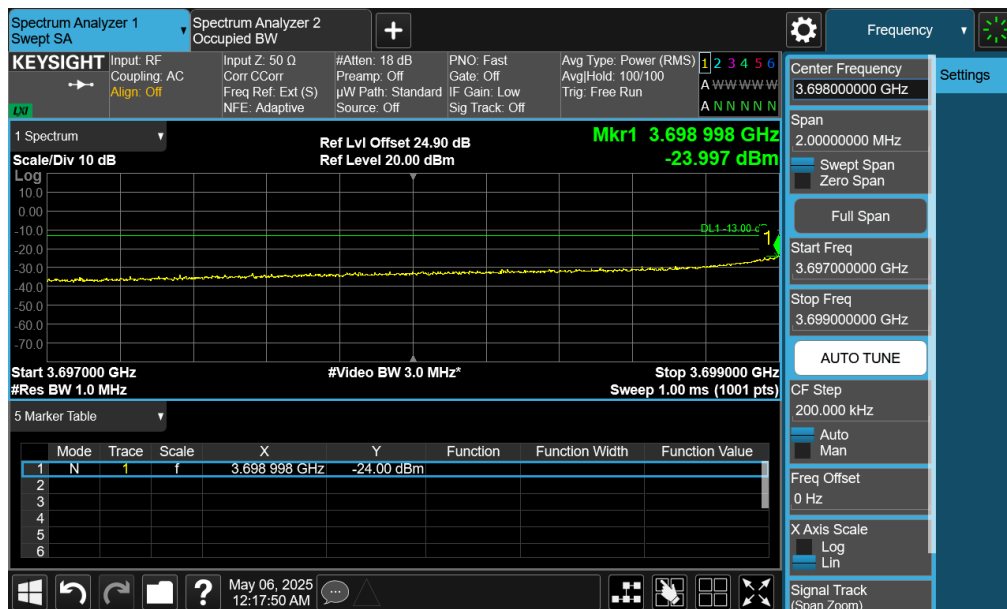
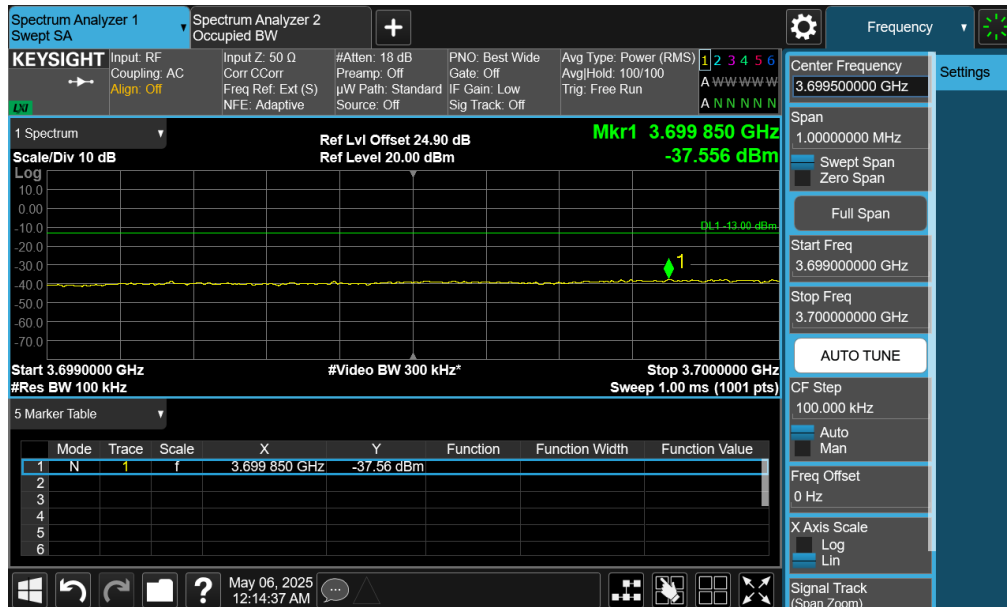
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



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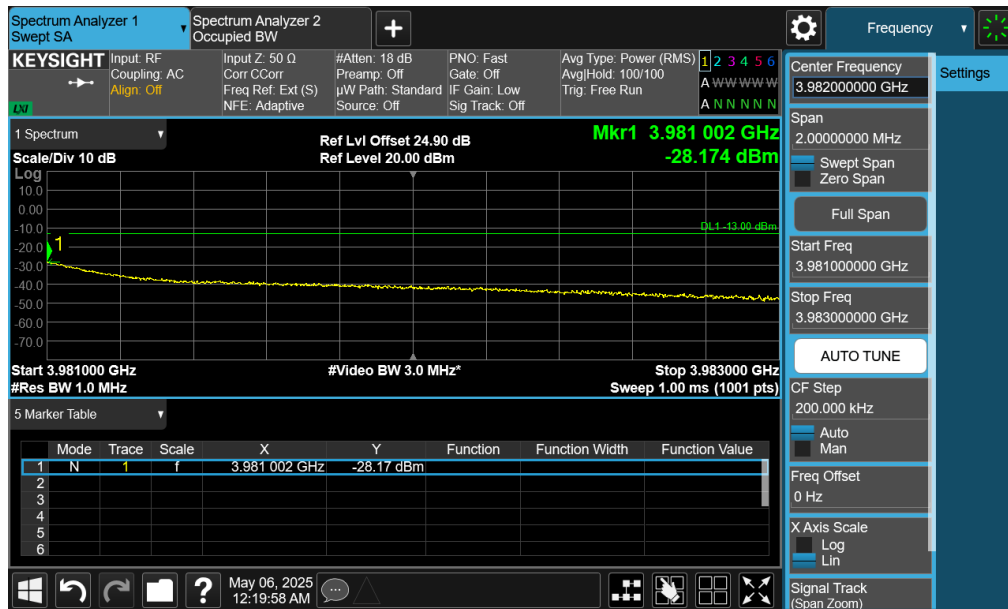
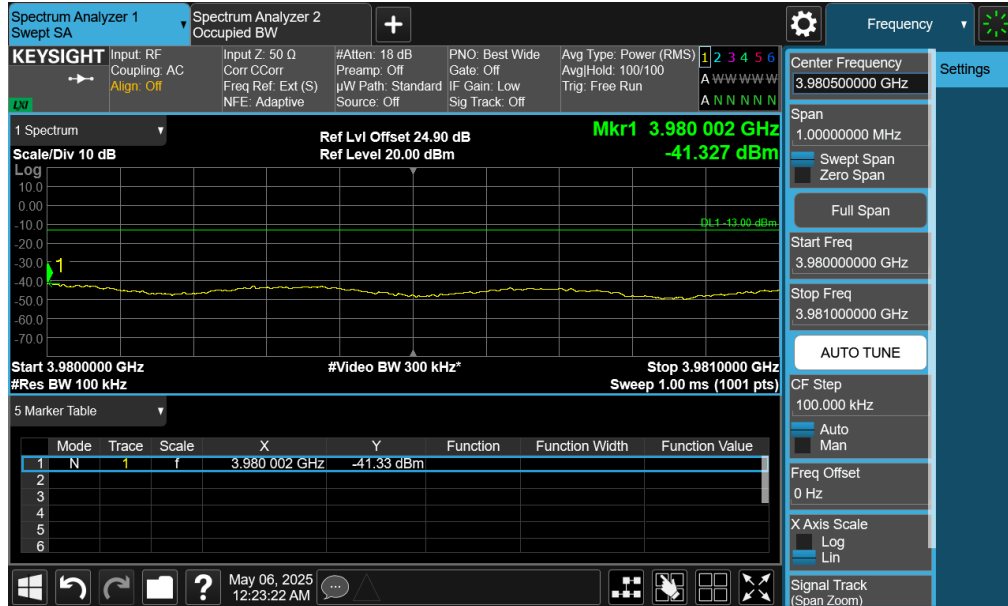
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC

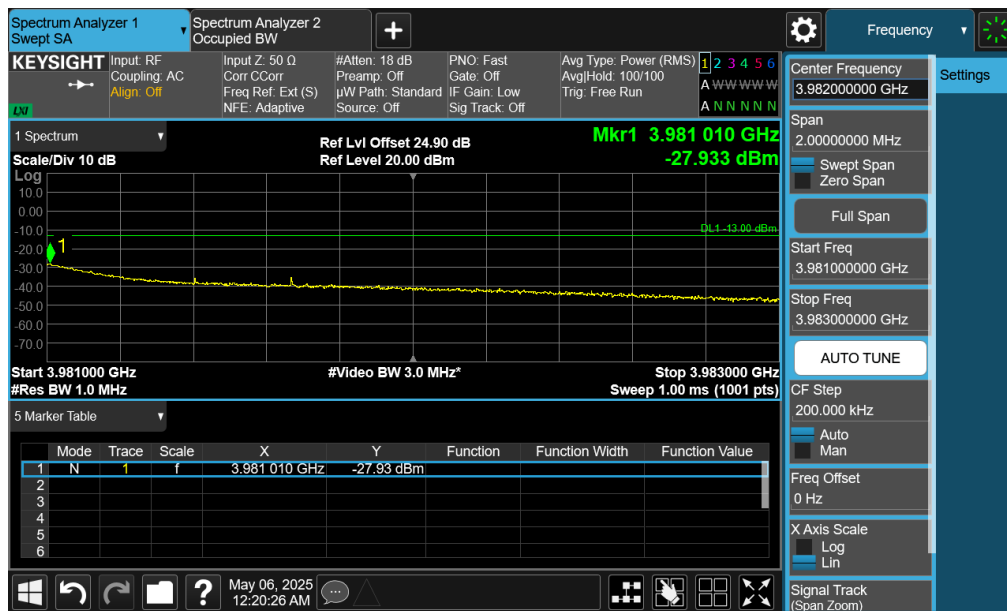
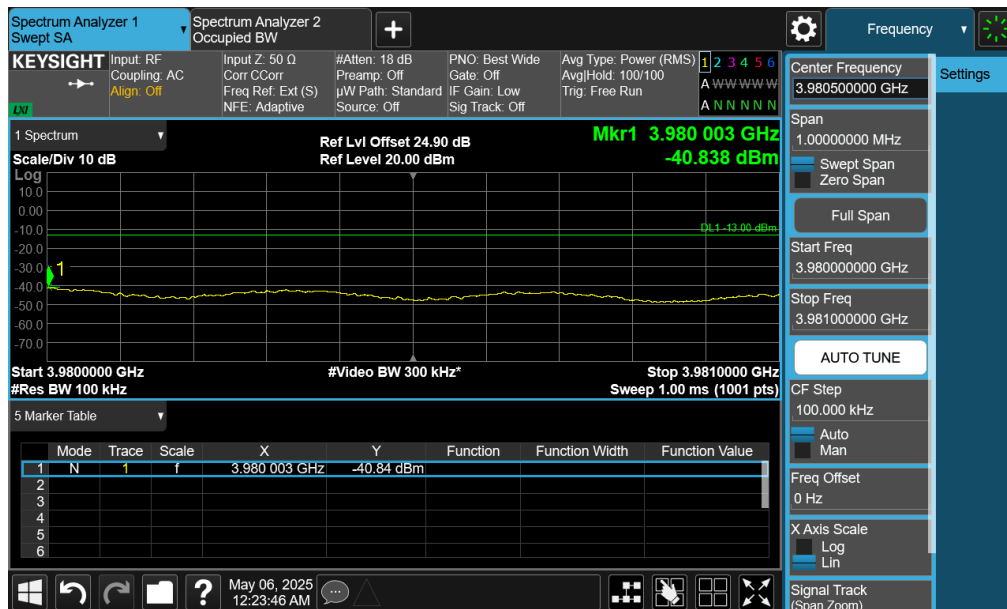


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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



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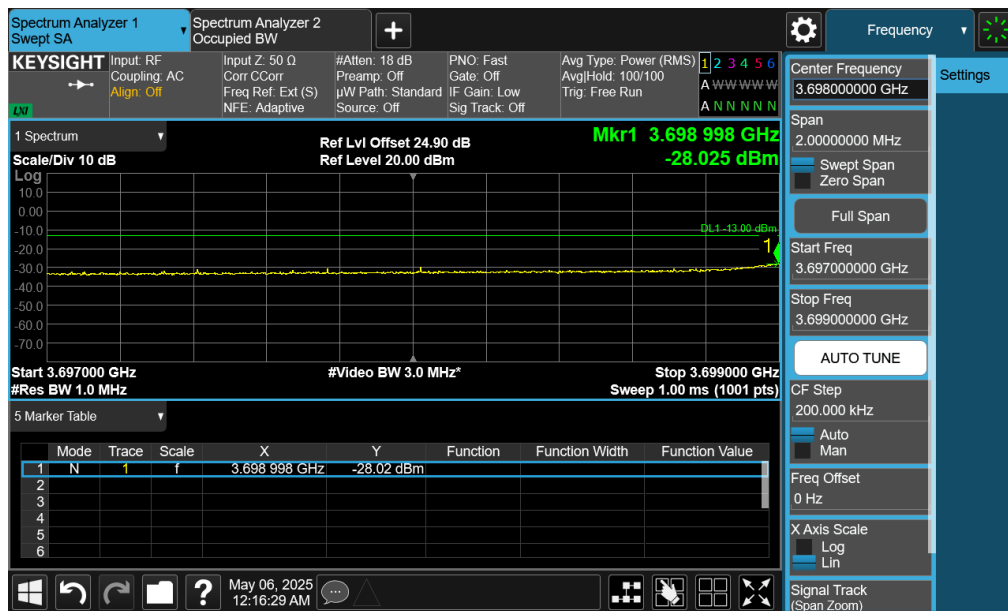
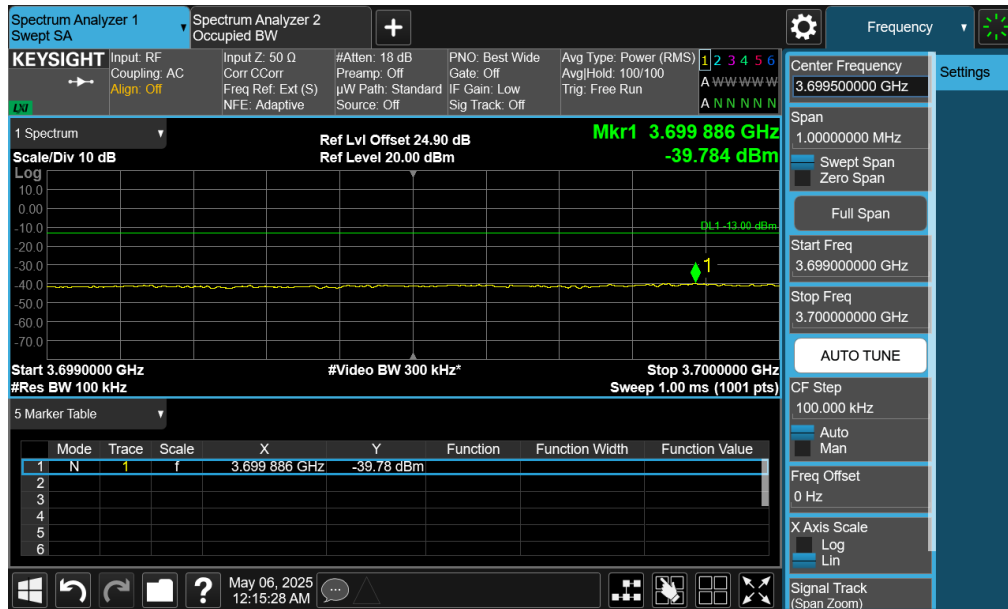
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t (86-20) 82155555 sgs.china@sgs.com

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

UL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



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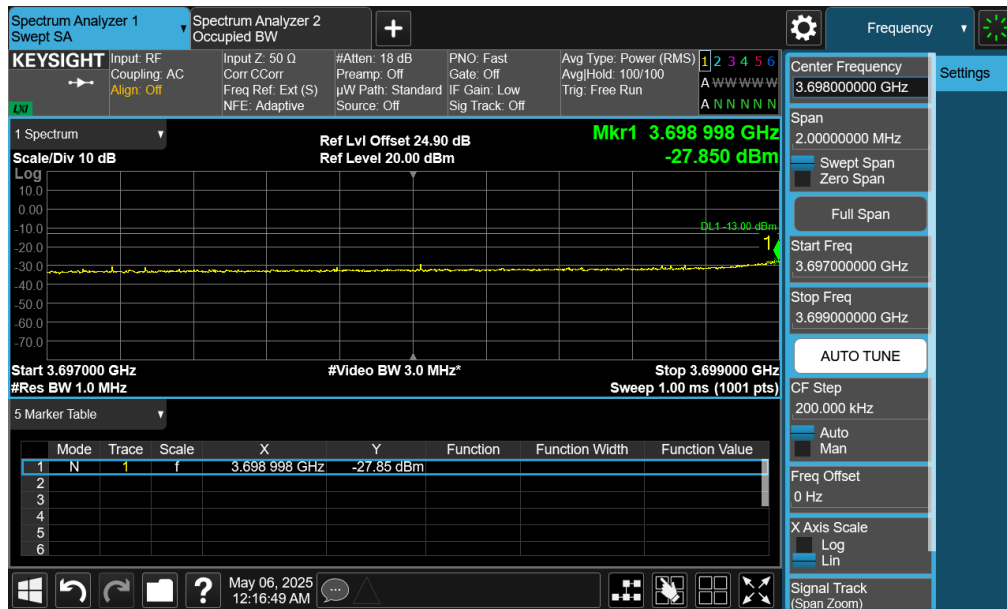
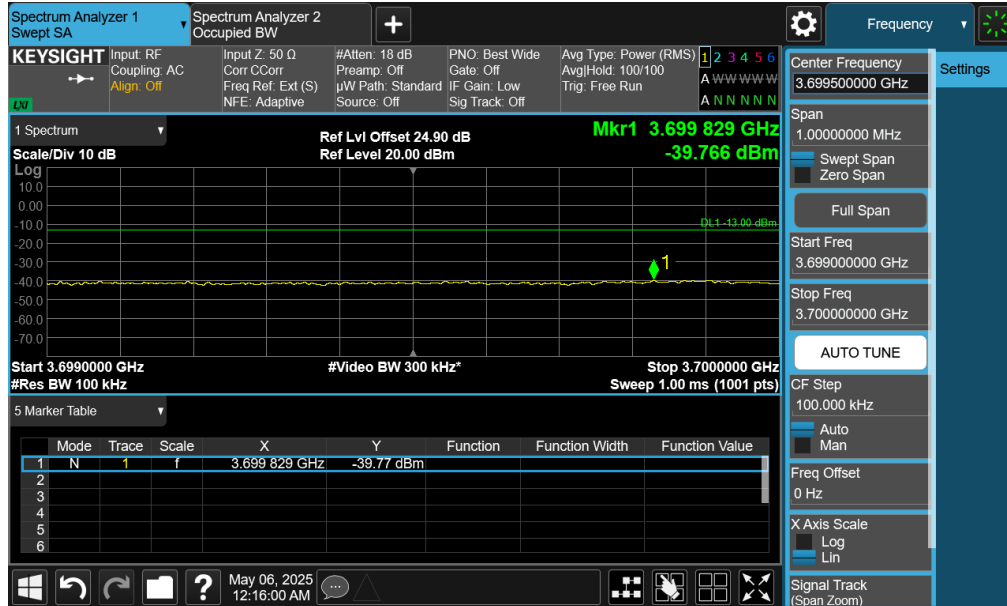
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC



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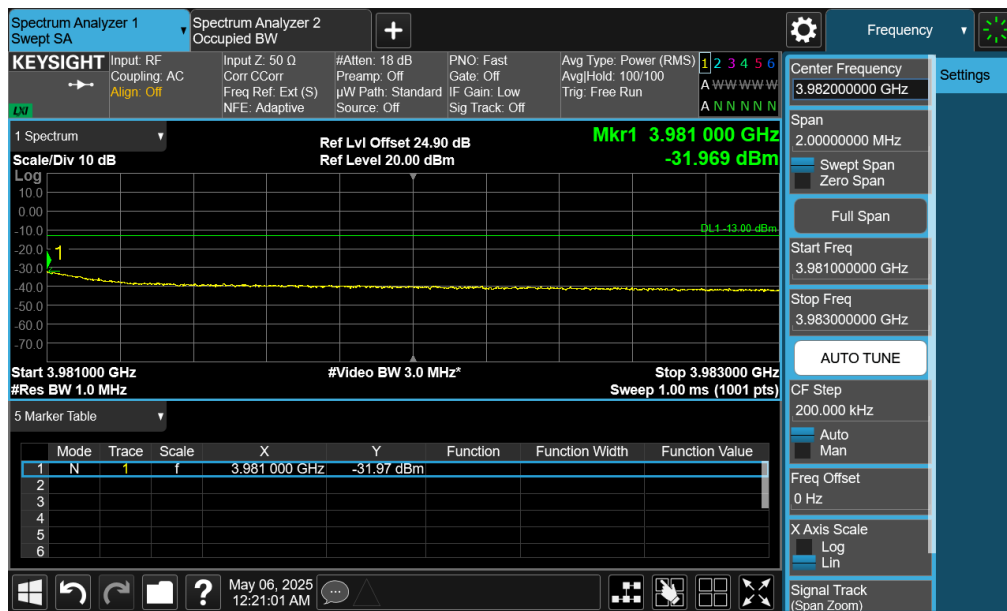
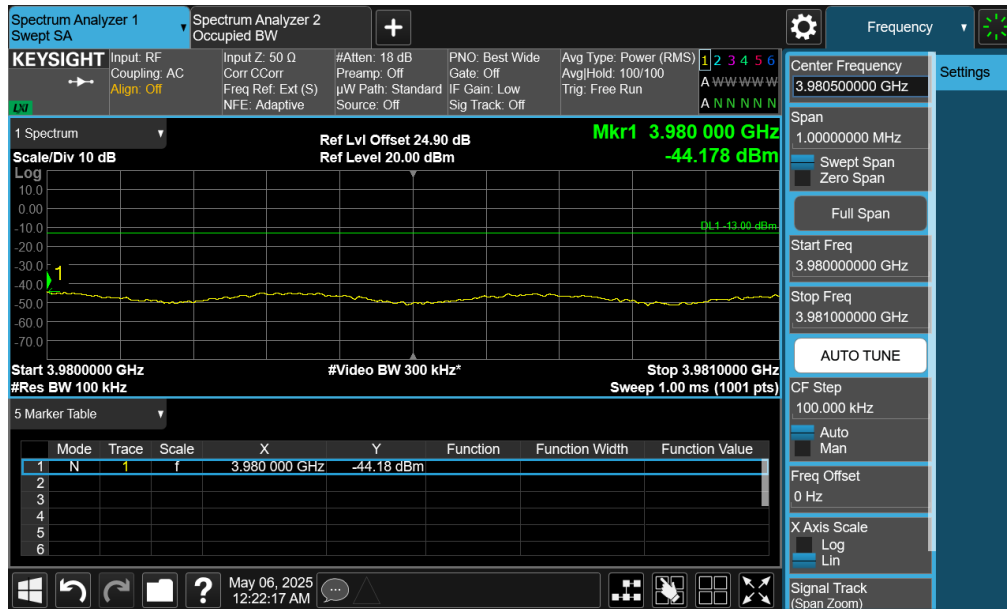
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



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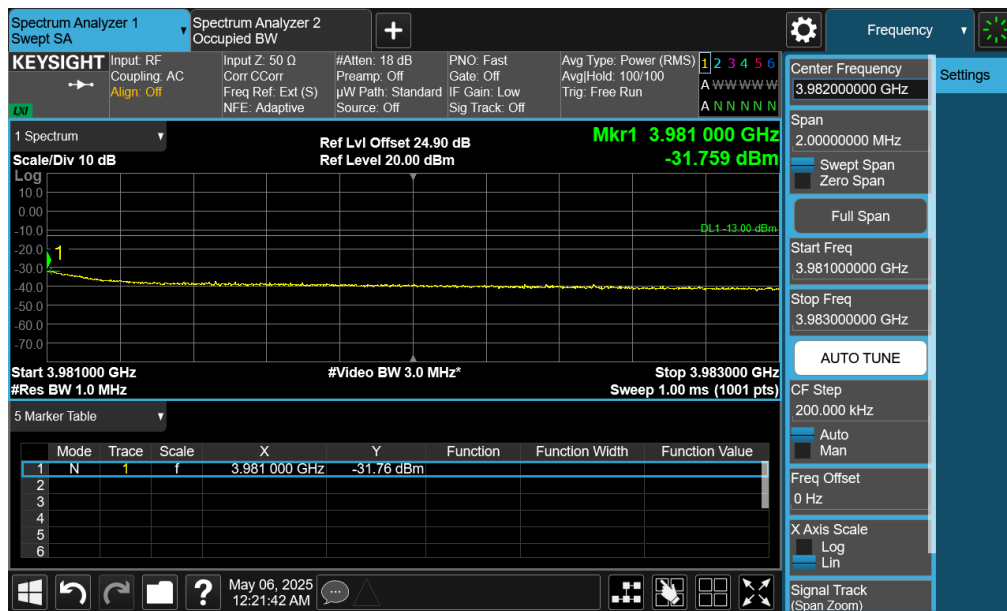
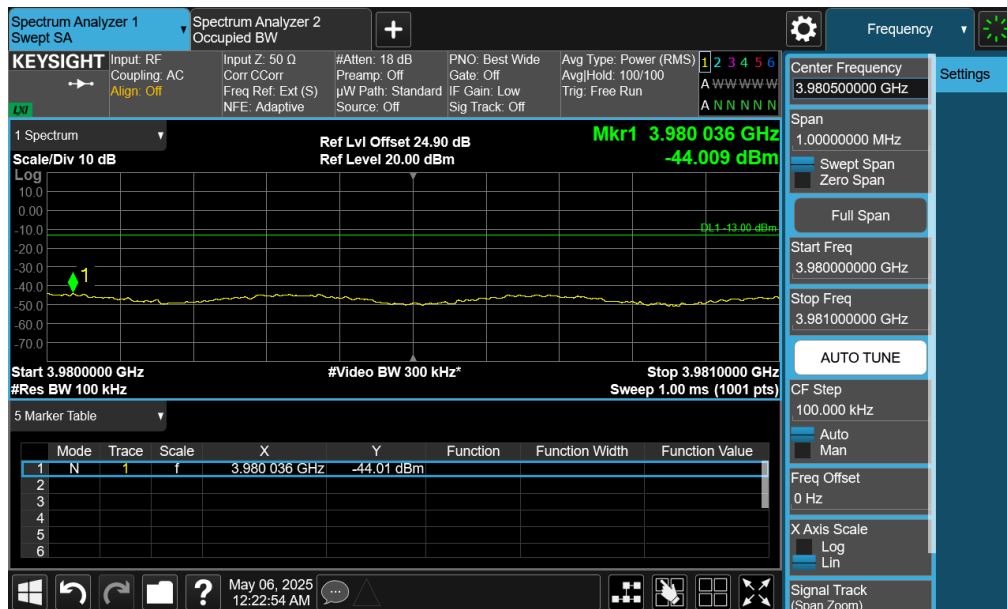
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



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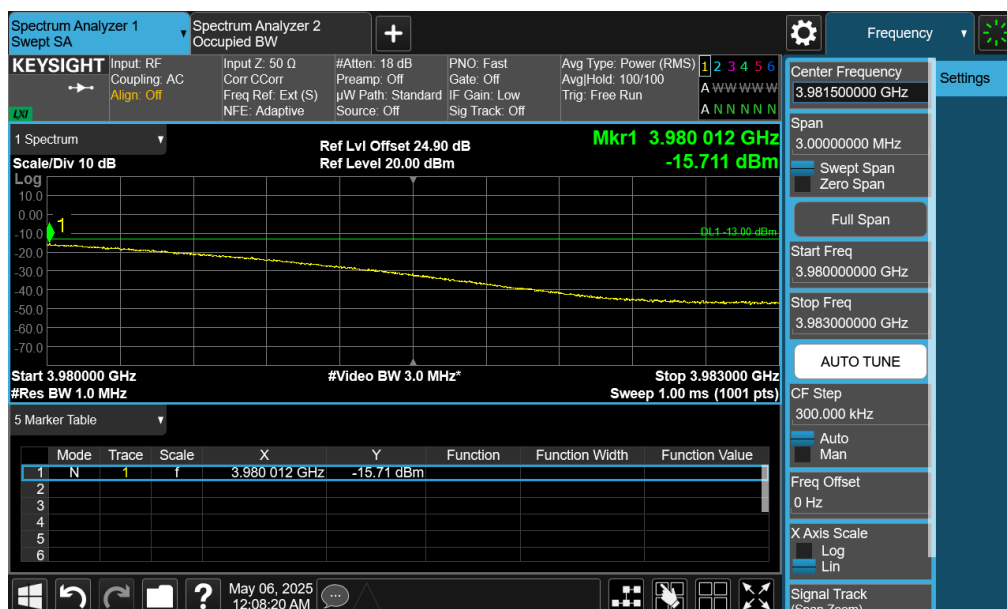
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Out-of-band/out-of-block emissions

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UL_100MHz AWGN_HCH_a single test signal_3dB above AGC



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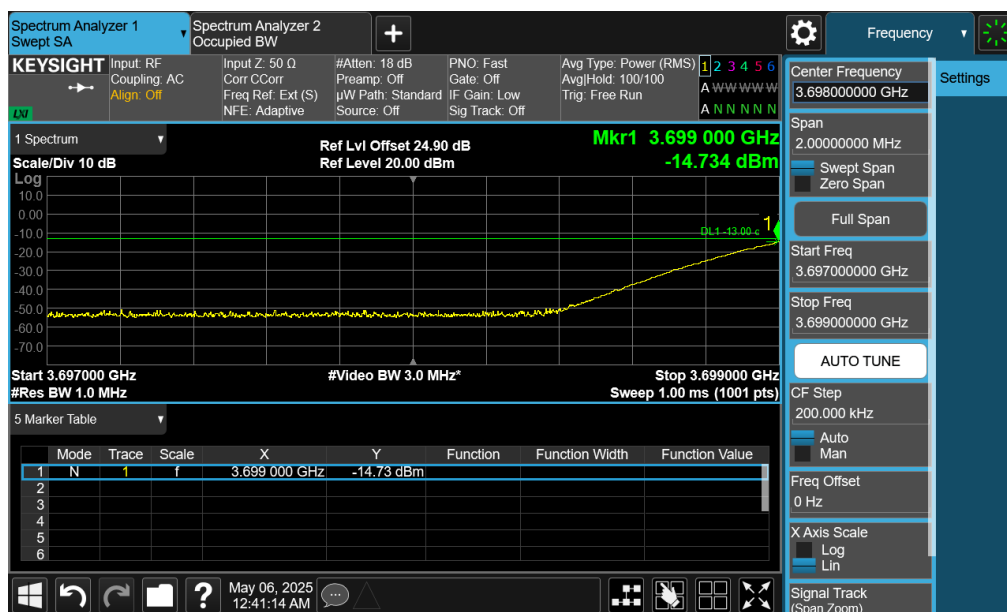
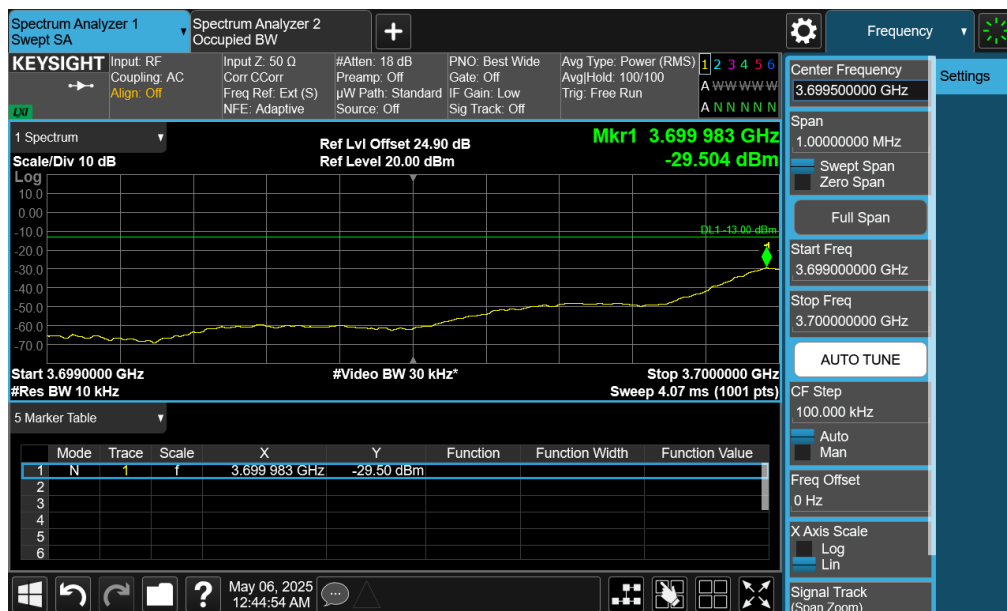
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Out-of-band/out-of-block emissions

UL_GSM_LCH_a single test signal_Pre-AGC



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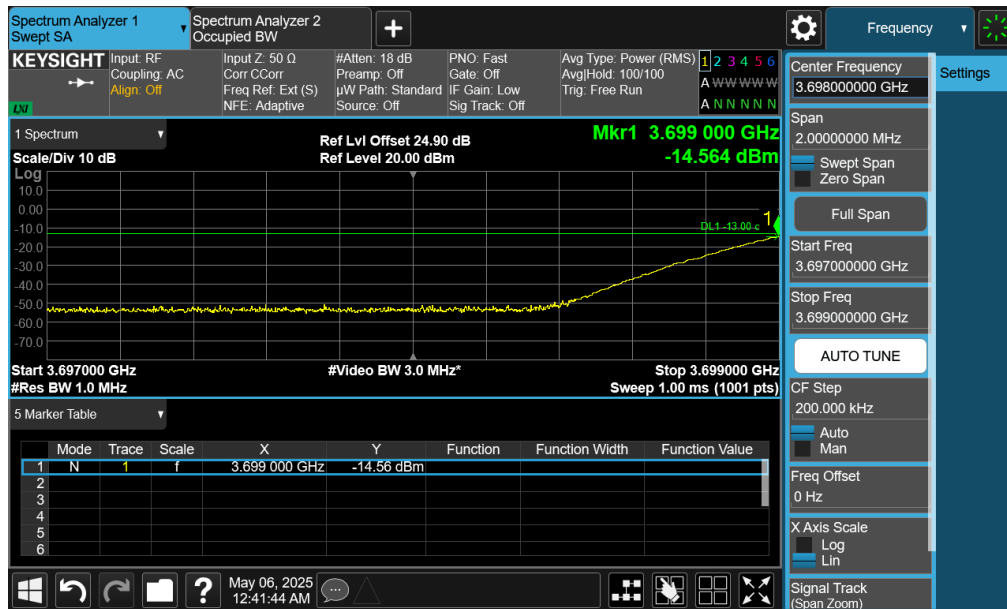
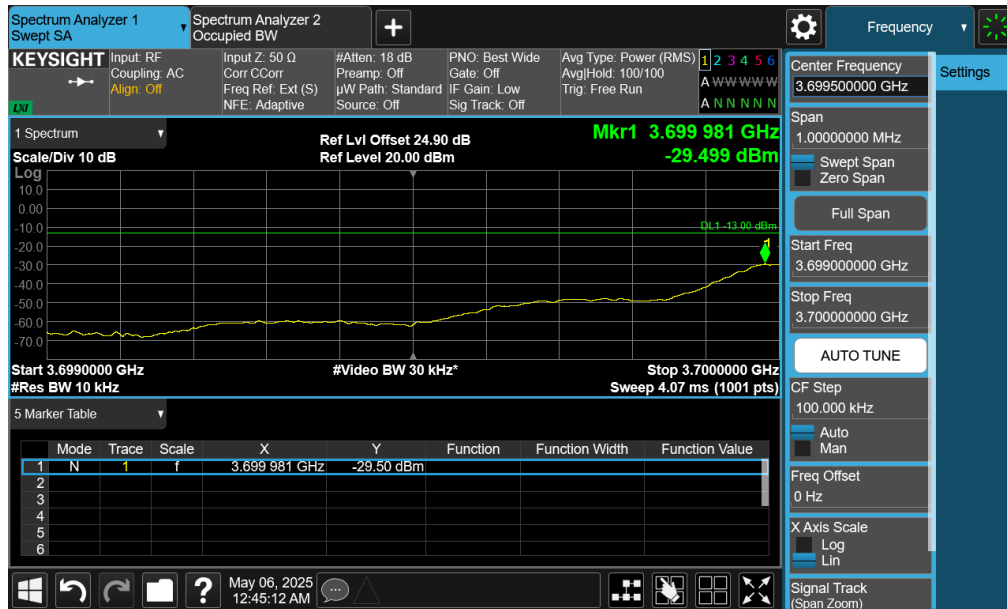
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Out-of-band/out-of-block emissions

UL_GSM_LCH_a single test signal_3dB above AGC



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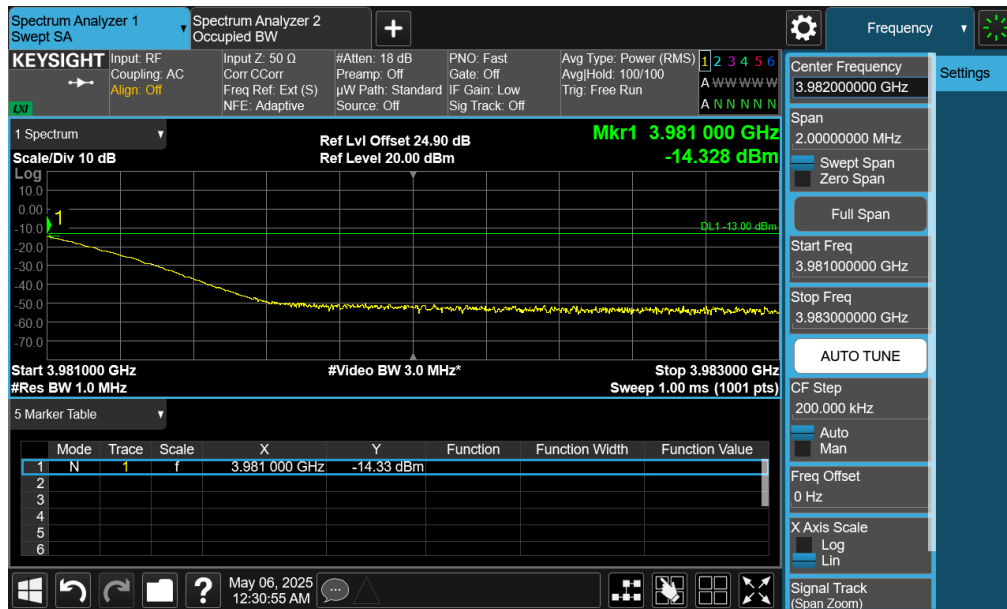
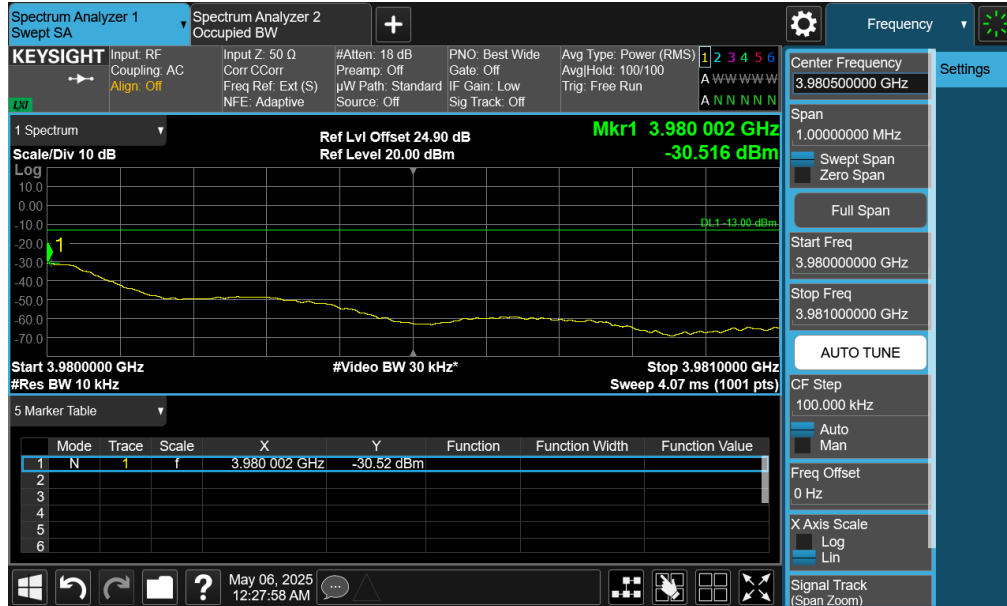
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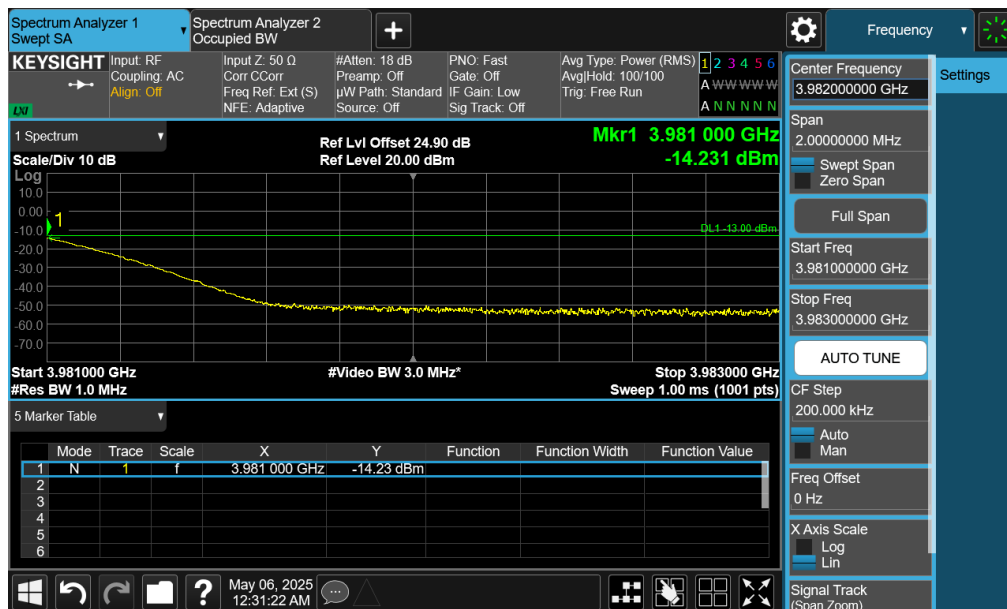
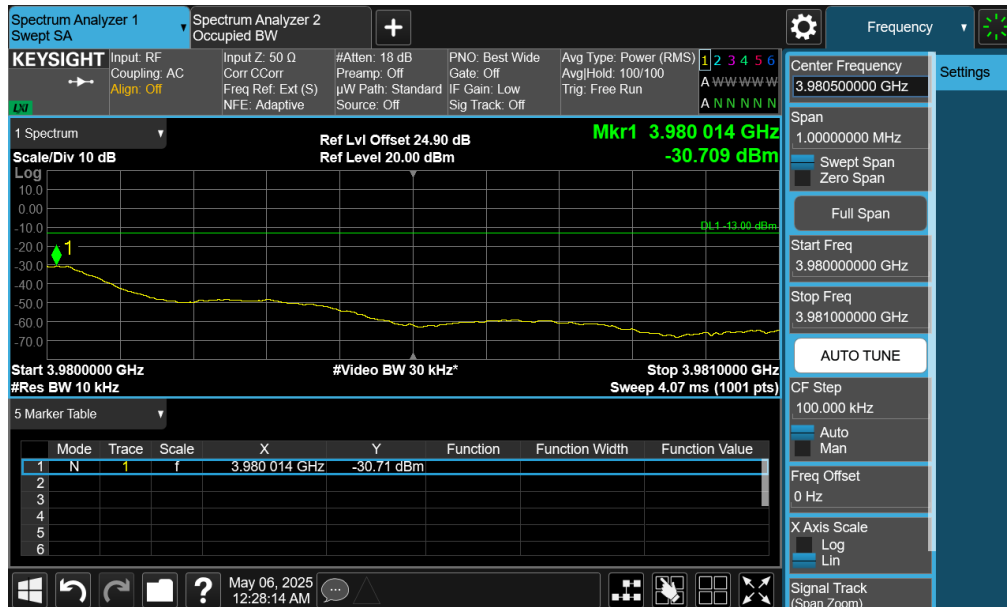
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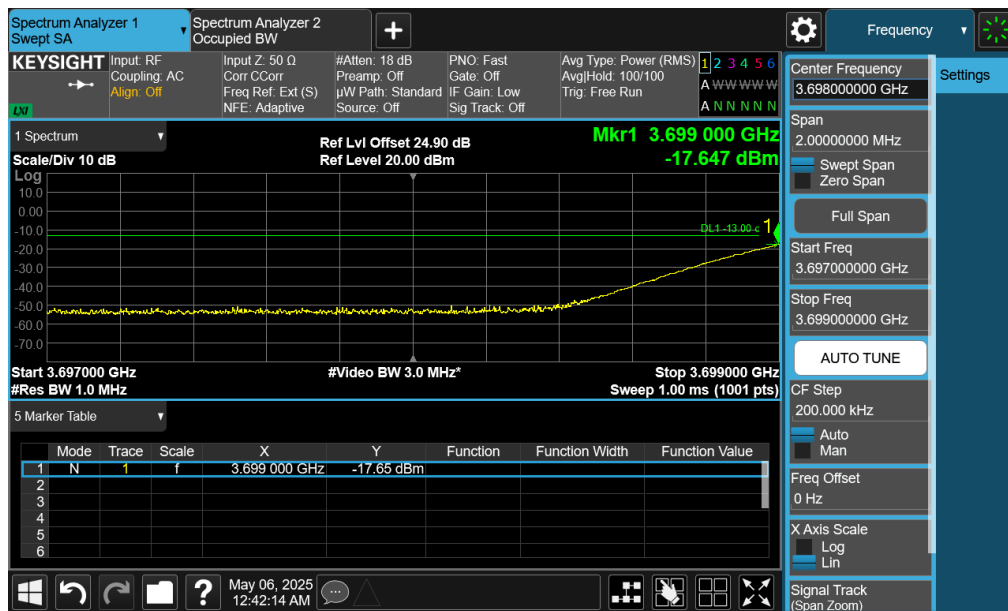
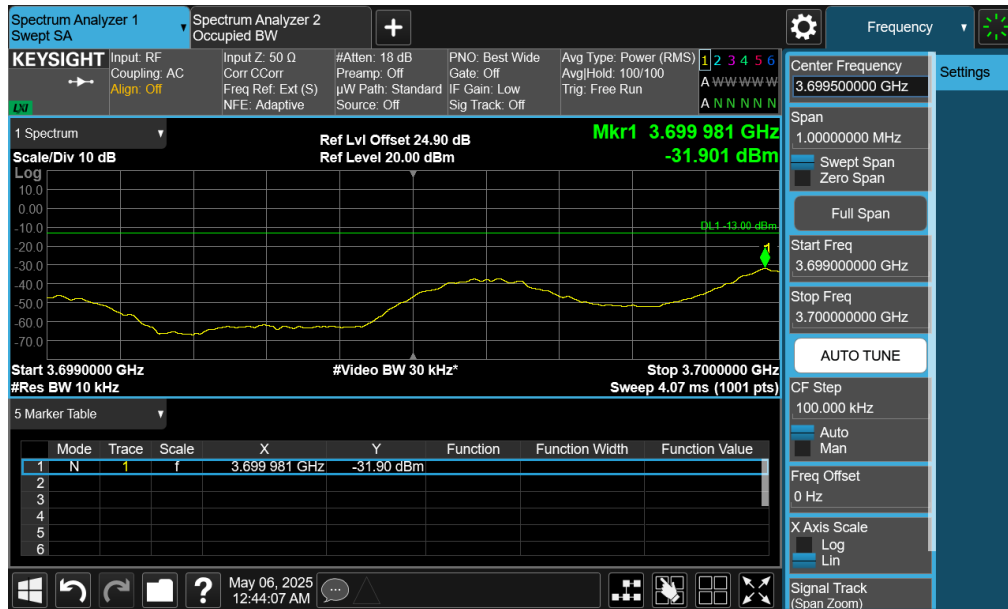
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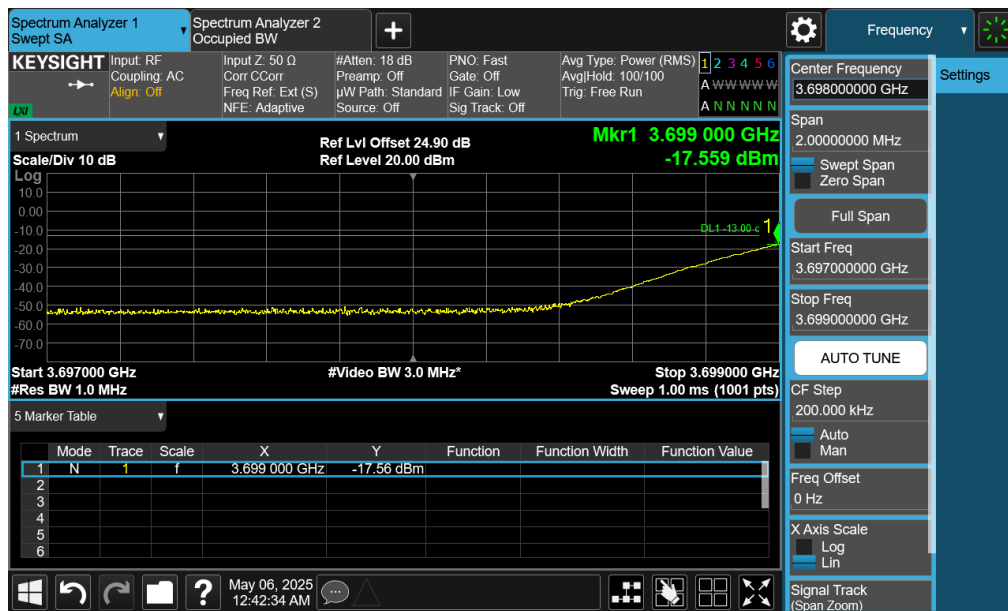
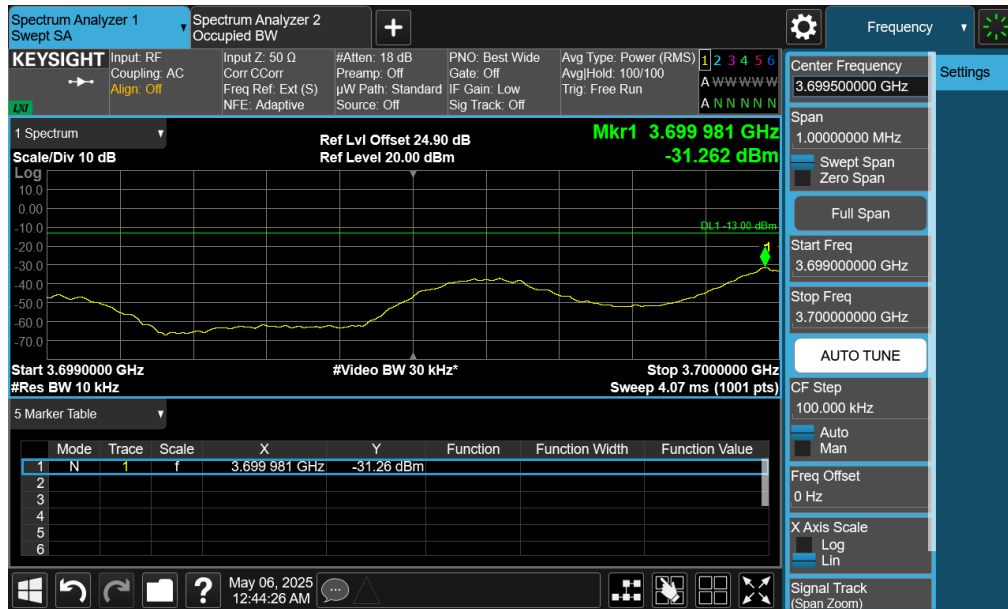
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Out-of-band/out-of-block emissions

UL_GSM_LCH_two adjacent test signals _3dB above AGC



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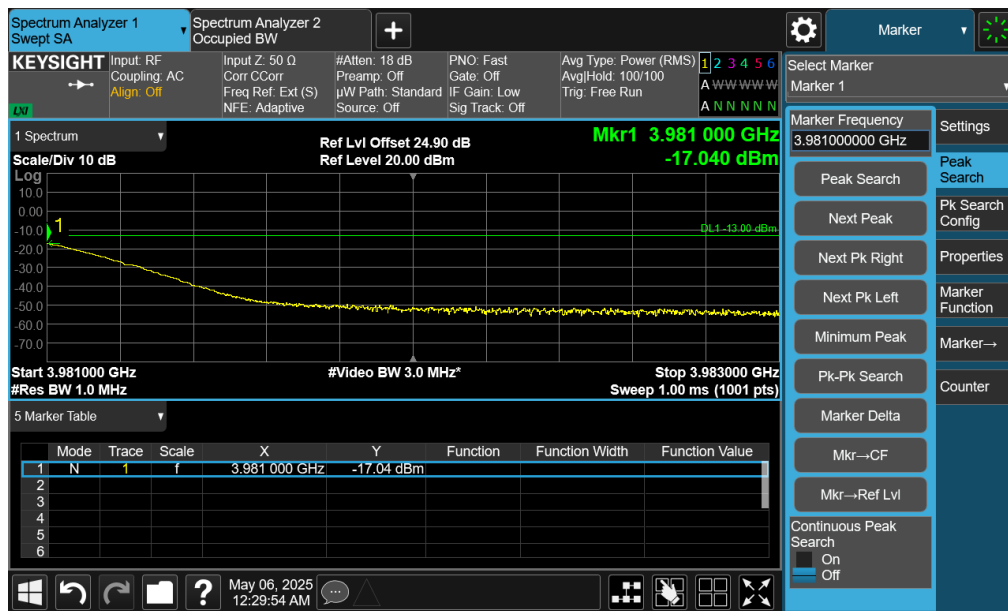
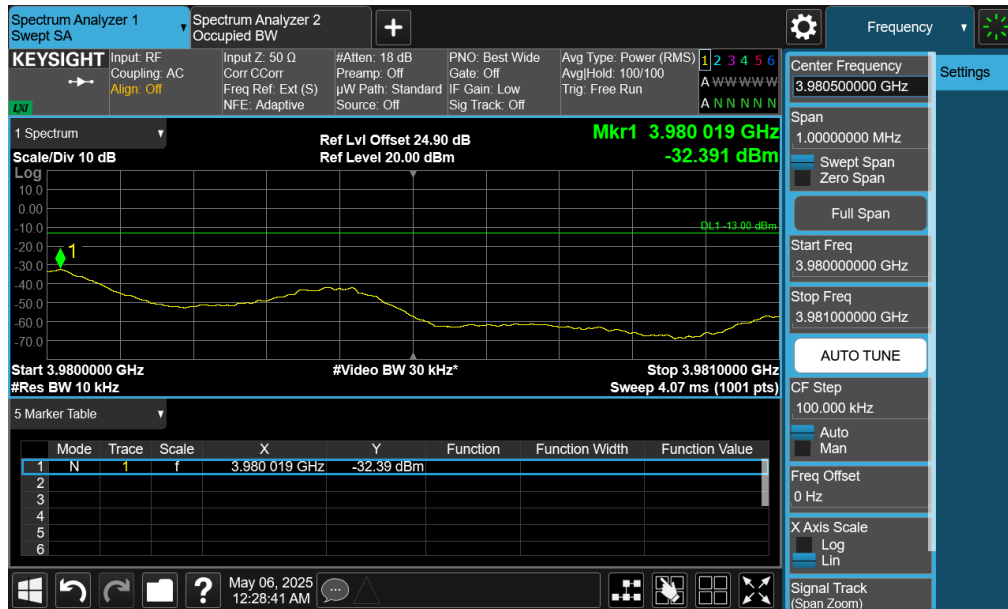
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Out-of-band/out-of-block emissions

UL_GSM_HCH_two adjacent test signals_Pre-AGC



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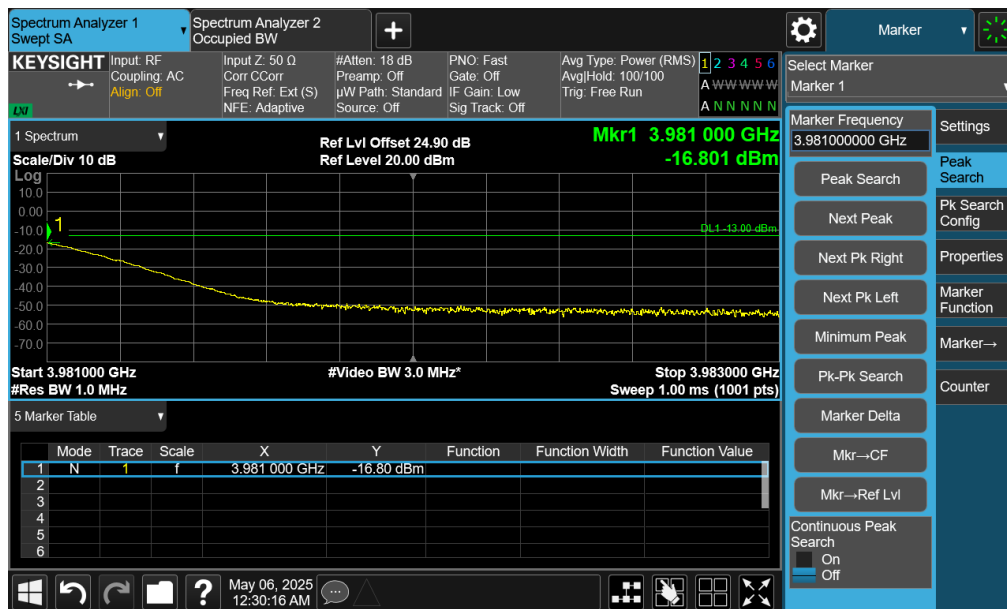
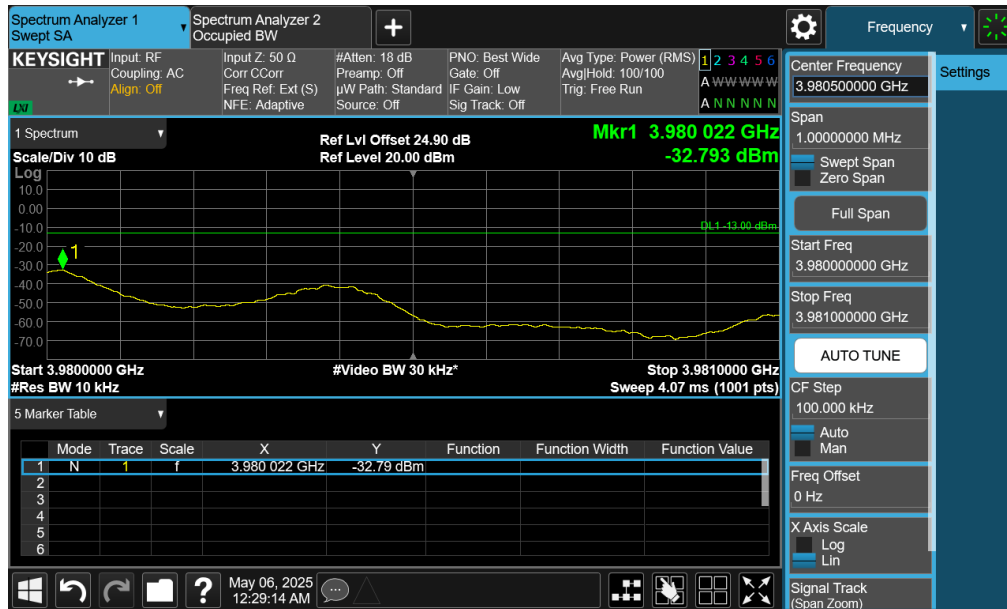
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing & Calibration Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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

UL_GSM_HCH_two adjacent test signals_3dB above AGC



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
UL	GSM	LCH	0.09-1000	-56.59	≤-13	PASS
			1000-3699	-15.17	≤-13	PASS
		HCH	3981-39800	-14.61	≤-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 + 10log10 (P) dB, here, P= 22dBm= 0.16W limit= 22dBm– [43+ 10log10(0.16W)]dB= -13dBm 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.						

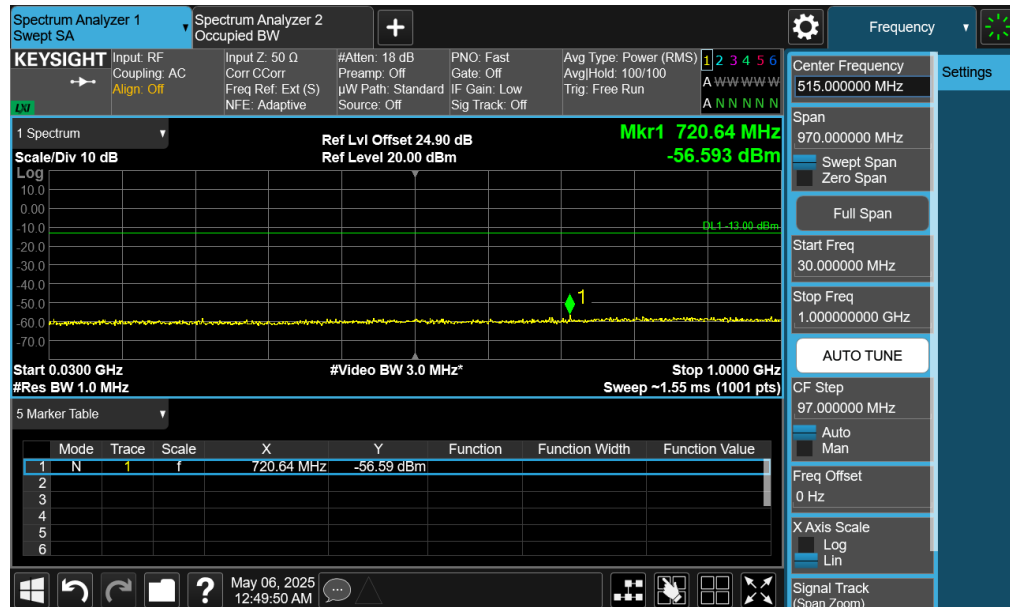


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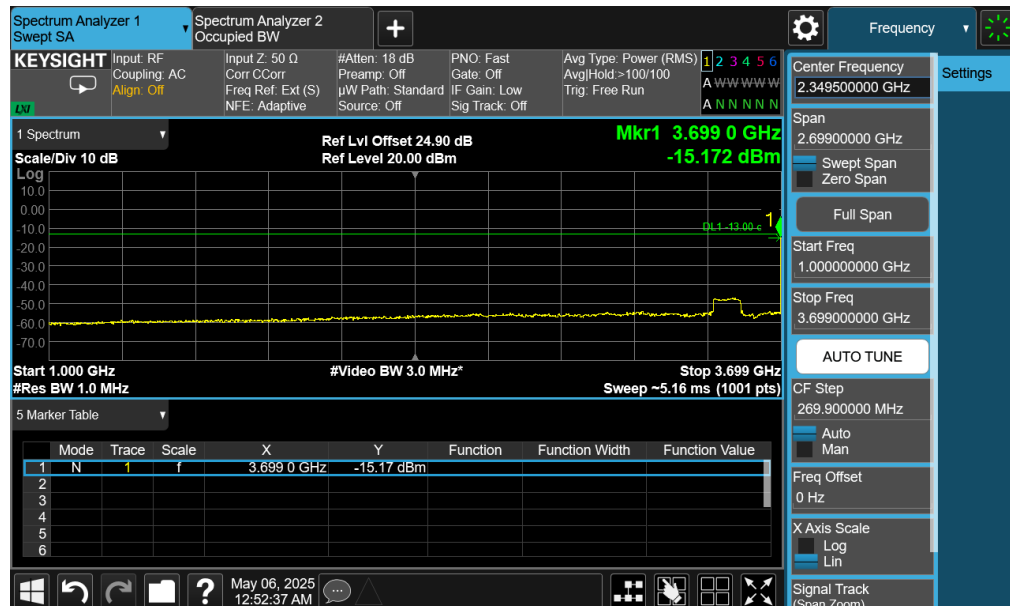
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Conducted spurious emissions

UL_GSM_LCH_Pre-AGC



UL_GSM_LCH_Pre-AGC



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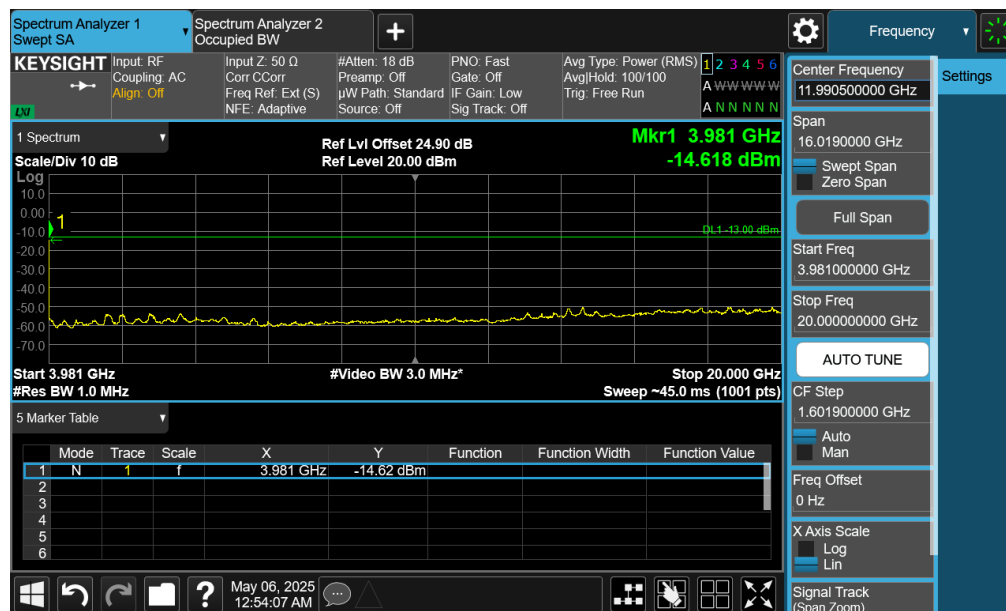
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Guangzhou Branch Testing & Calibration Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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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Conducted spurious emissions

UL_GSM_HCH_Pre-AGC



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Test Center EEC Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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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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	6.2	0.00161	PASS
			TN	VH	6.2	0.00161	PASS
		100MHz AWGN	TN	VL	7.1	0.00185	PASS
			TN	VH	7.1	0.00185	PASS
		GSM	TN	VL	5.4	0.00141	PASS
			TN	VH	5.4	0.00141	PASS



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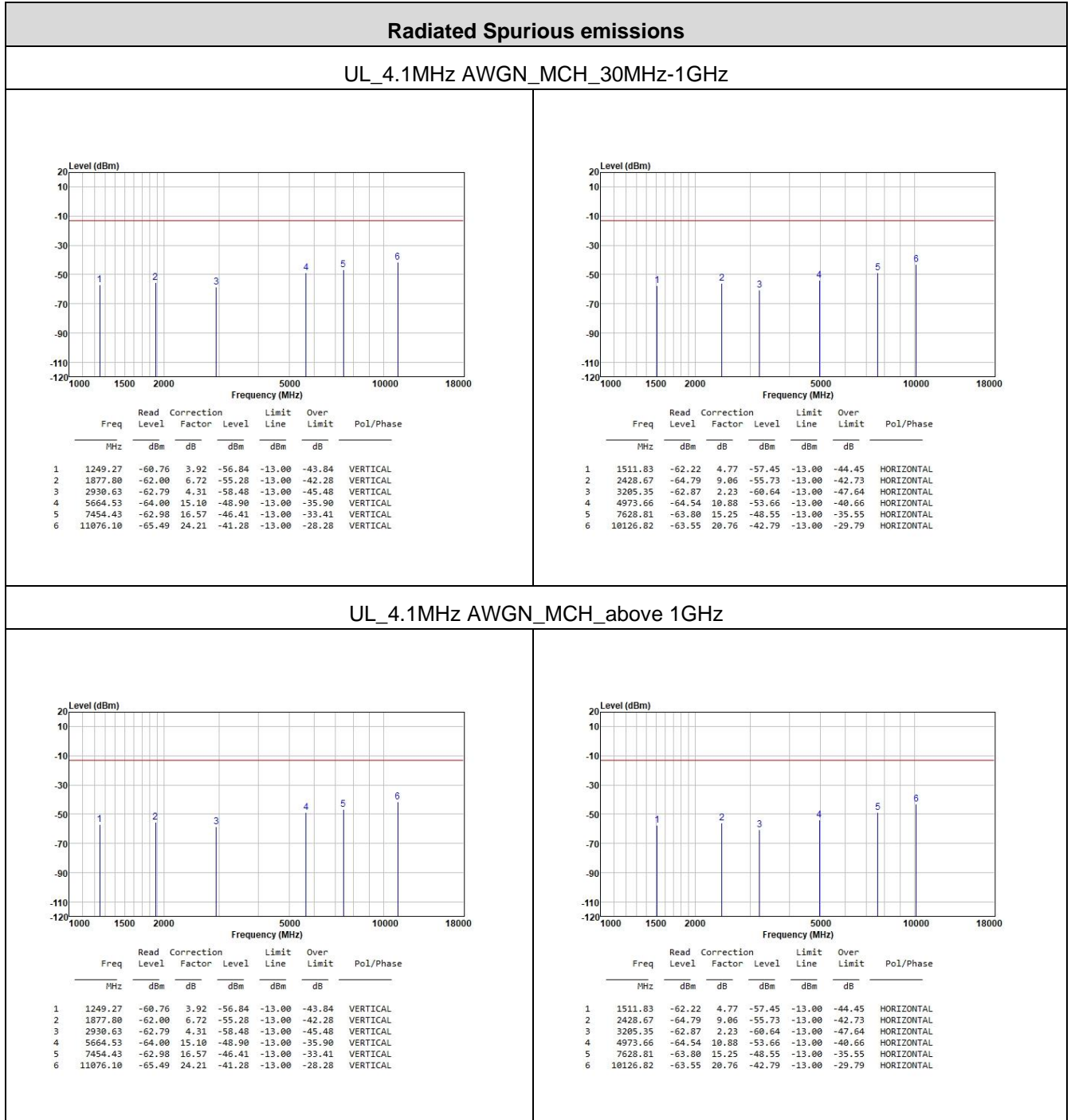
Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	MCH	4.1MHz AWGN	VN	+50	6.5	0.00169	PASS
			VN	+40	4.5	0.00117	PASS
			VN	+30	6.5	0.00169	PASS
			VN	+20	4.4	0.00115	PASS
			VN	+10	7.5	0.00195	PASS
			VN	0	5.7	0.00148	PASS
			VN	-10	7.2	0.00188	PASS
			VN	-20	7.1	0.00185	PASS
			VN	-30	7.2	0.00188	PASS
	MCH	100MHz AWGN	VN	+50	8.0	0.00208	PASS
			VN	+40	7.1	0.00185	PASS
			VN	+30	4.1	0.00107	PASS
			VN	+20	7.9	0.00206	PASS
			VN	+10	8.1	0.00211	PASS
			VN	0	4.5	0.00117	PASS
			VN	-10	6.7	0.00174	PASS
			VN	-20	6.4	0.00167	PASS
			VN	-30	4.9	0.00128	PASS
	MCH	GSM	VN	+50	4.3	0.00112	PASS
			VN	+40	5.6	0.00146	PASS
			VN	+30	5.5	0.00143	PASS
			VN	+20	5.2	0.00135	PASS
			VN	+10	4.7	0.00122	PASS
			VN	0	7.3	0.00190	PASS
			VN	-10	6.3	0.00164	PASS
			VN	-20	6.0	0.00156	PASS
			VN	-30	7.0	0.00182	PASS



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7 Radiated Spurious emissions



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Guangzhou Branch

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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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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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Guangzhou Branch Testing Center EMC Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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

t (86-20) 82155555 www.sgsgroup.com.cn
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