

Appendix -

Test Data and Result for report

GZCR260100019002

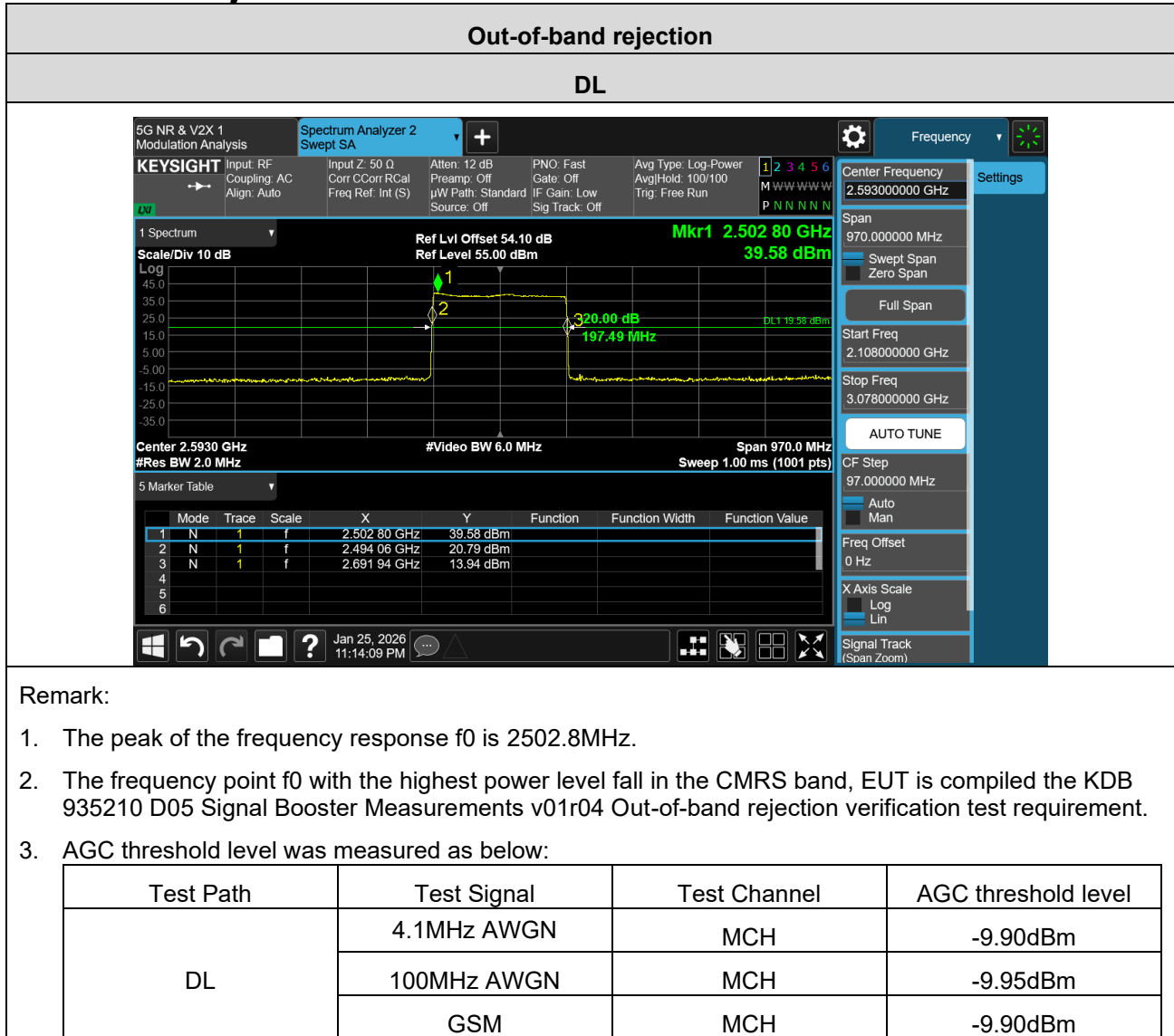
(For BRS/EBS band DL)



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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
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: 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.				

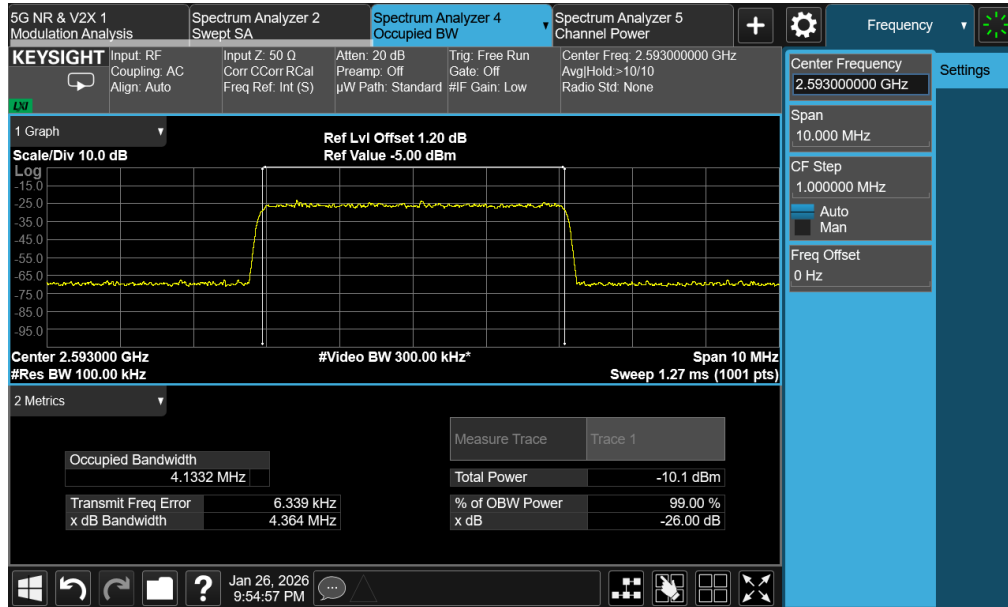


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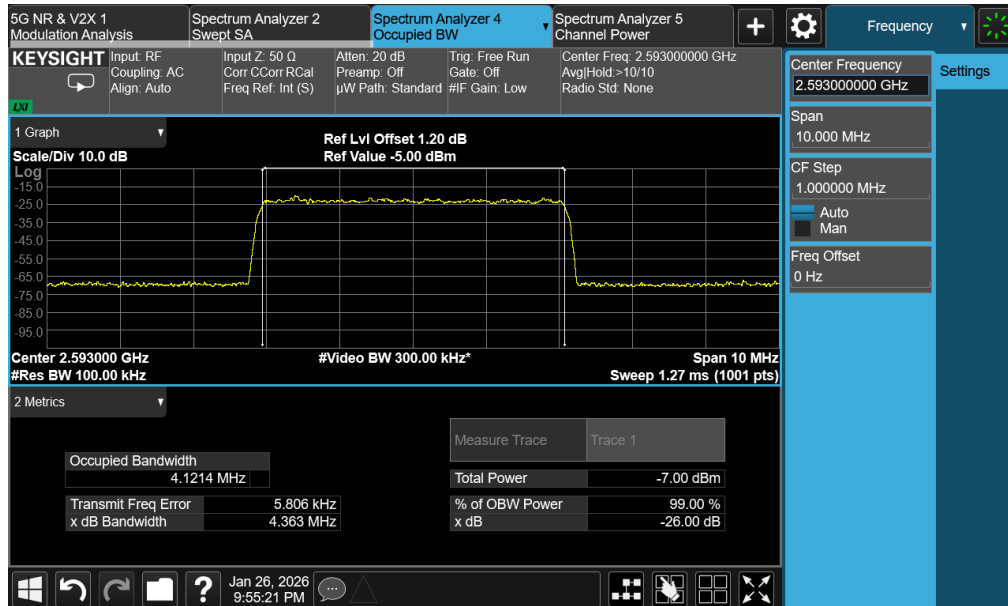
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99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC

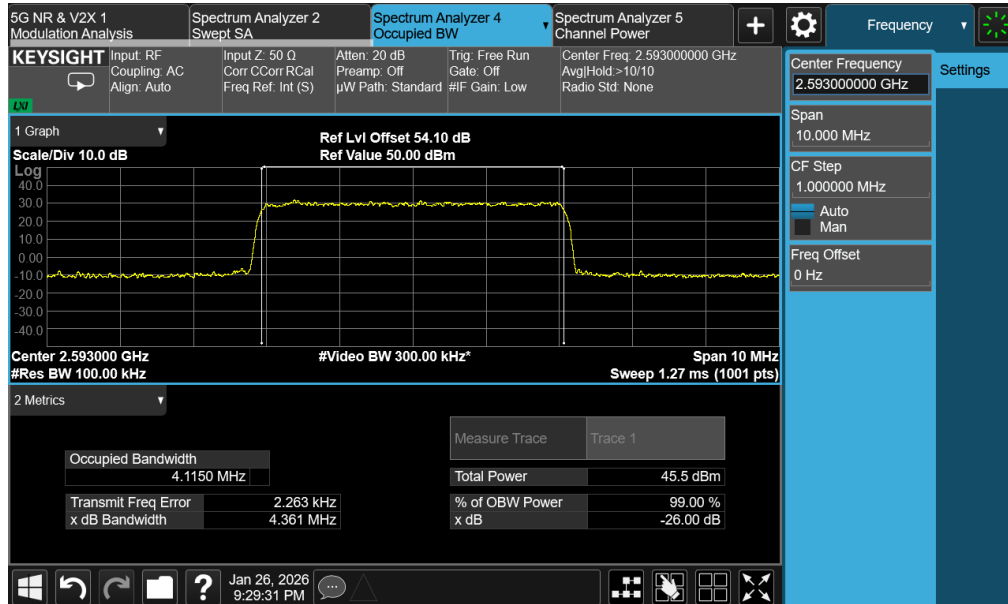


DL_4.1MHz AWGN_MCH_Input_3dB above AGC

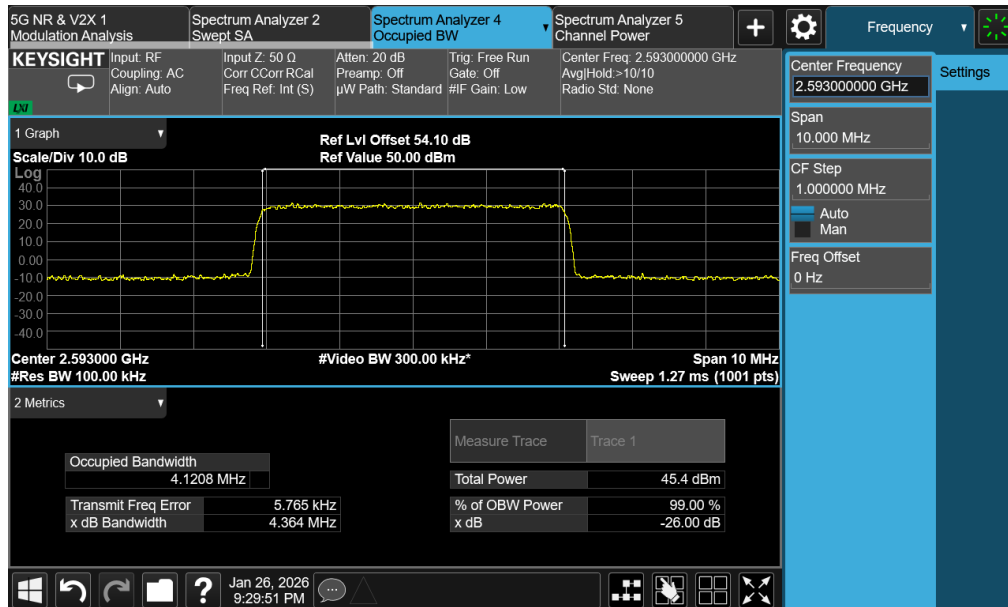


99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC

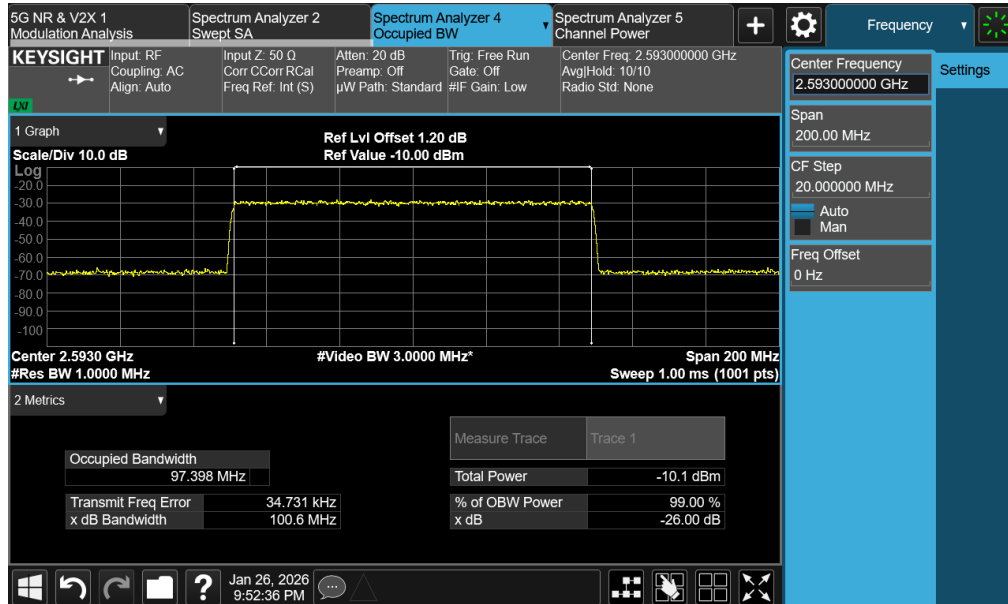


DL_4.1MHz AWGN_MCH_Output_3dB above AGC

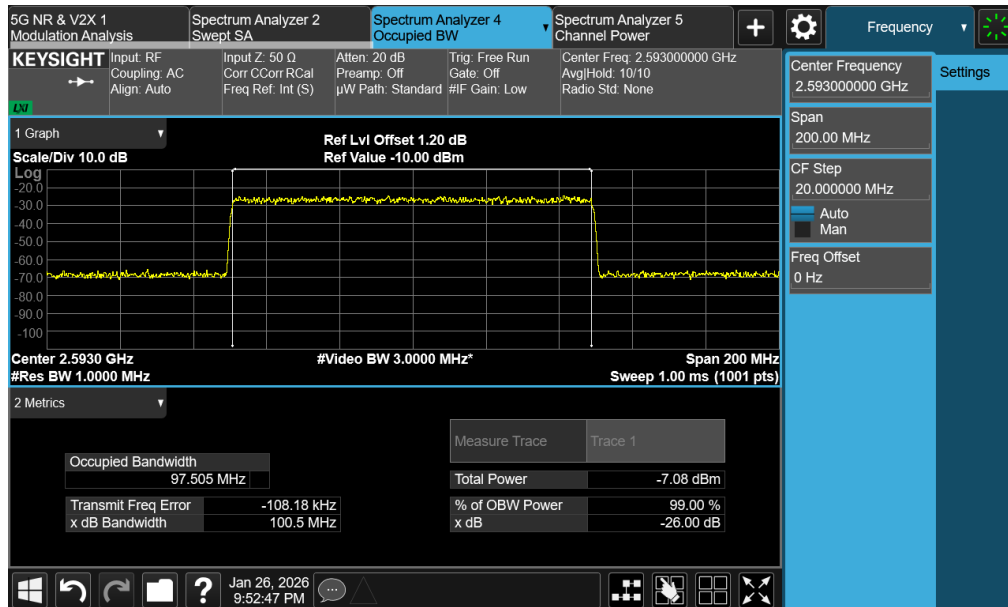


99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC

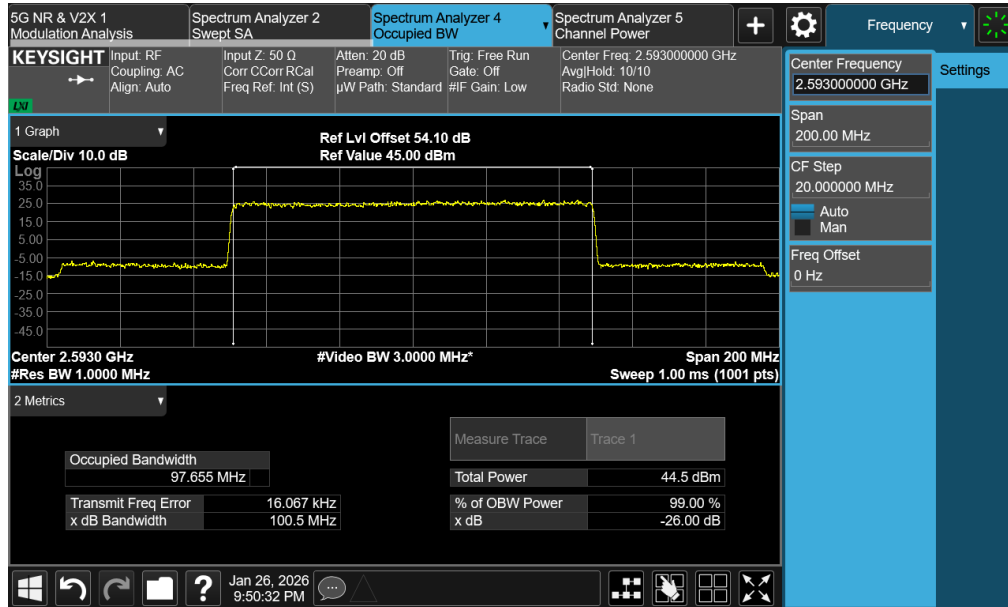


DL_100MHz AWGN_MCH_Input_3dB above AGC

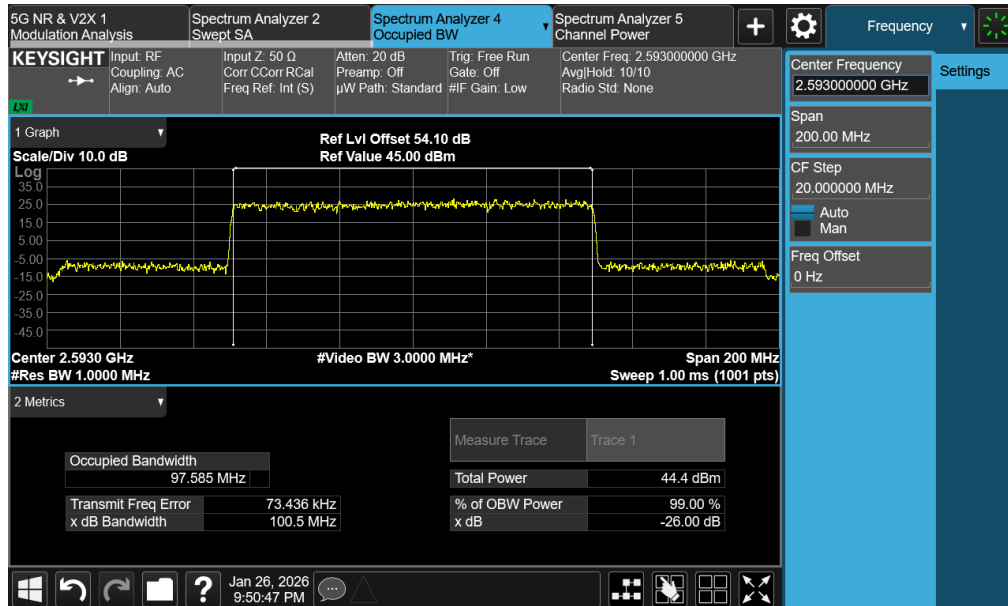


99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



DL_100MHz AWGN_MCH_Output_3dB above AGC

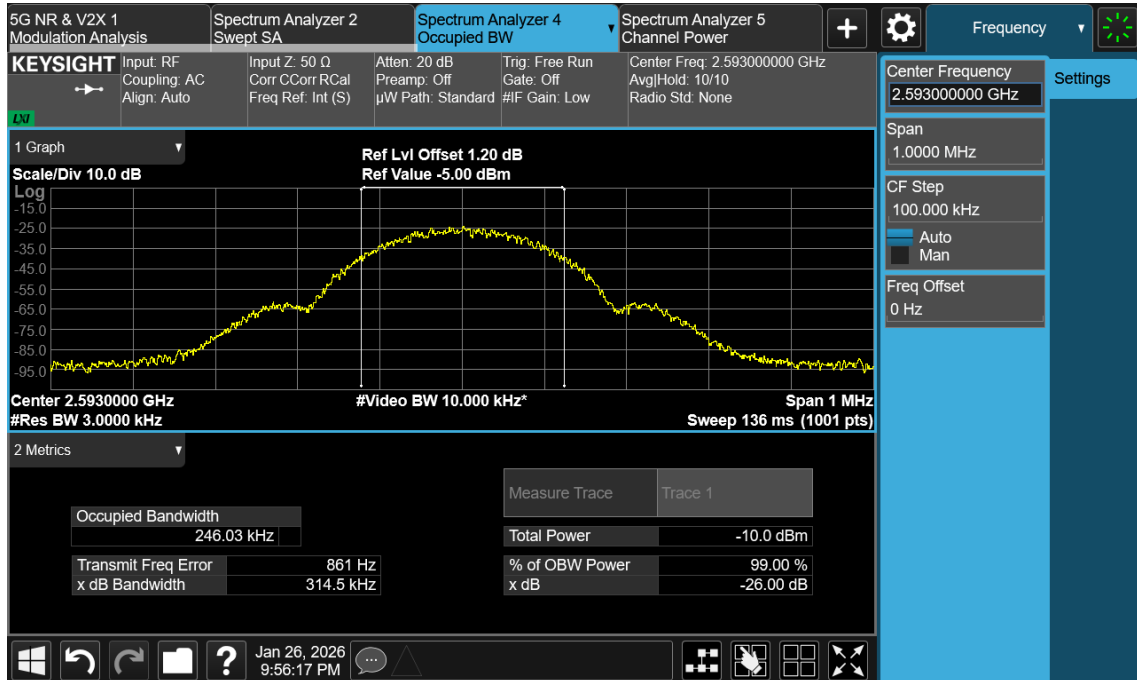


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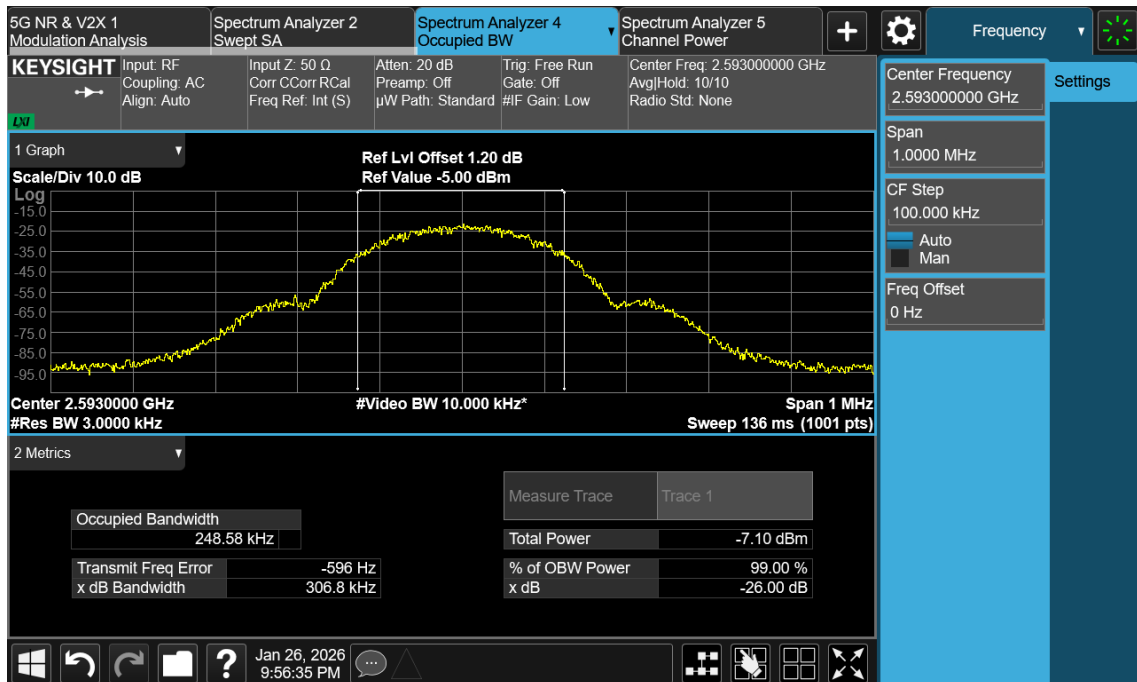
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99% OBW

DL_GSM_MCH_Input_Pre-AGC



DL_GSM_MCH_Input_3dB above AGC



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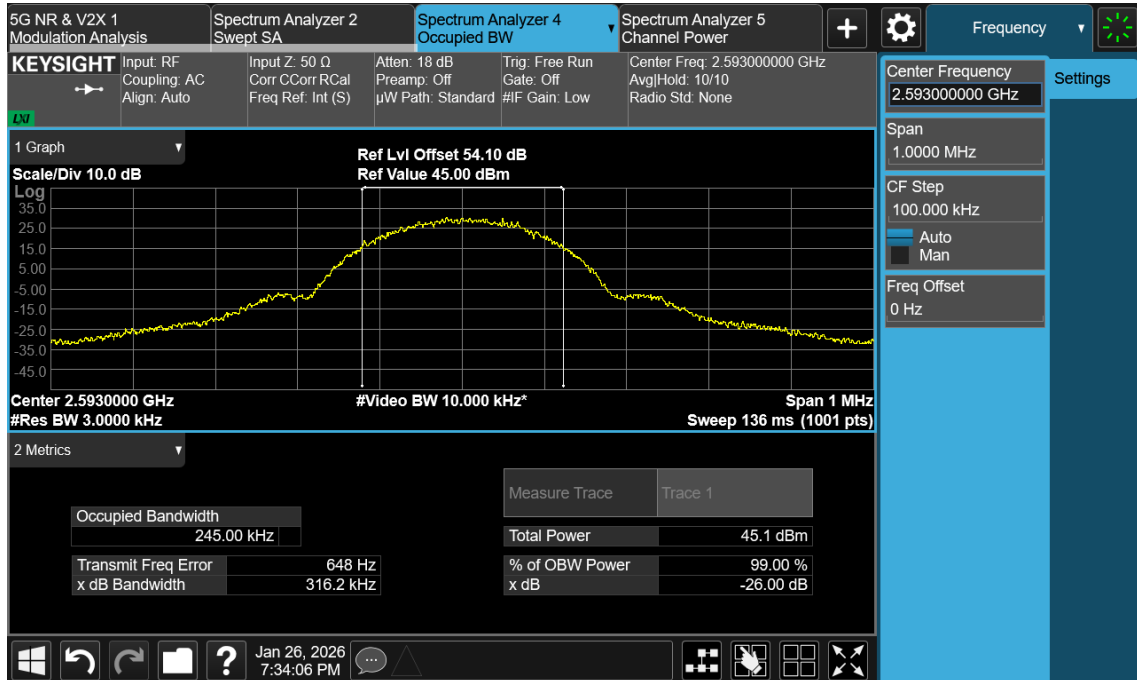
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, China IVCEC Laboratory

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

99% OBW

DL_GSM_MCH_Output_Pre-AGC



DL_GSM_MCH_Output_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)	EIRP (dBm)	EIRP (W)	Gain (dB)
DL	2502.8	4.1MHz AWGN	Pre-AGC	-10	45.04	50.04	100.93	55.04
			3dB above AGC	-7	45.54	50.54	113.24	/
		100MHz AWGN	Pre-AGC	-10	45.00	50.00	100.00	55.00
			3dB above AGC	-7	45.08	50.08	101.86	/
		GSM	Pre-AGC	-10	45.69	50.69	117.22	55.69
			3dB above AGC	-7	46.12	51.12	129.42	/

Remark:

- f₀ is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer.
- For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern:

$$EIRP \leq 33dBW + 10\lg(X/Y) \text{ dBW} + 10\lg(360/\text{beamwidth}) \text{ dBW} = 1995W + 10\lg(X/Y) \text{ dBW} + 10\lg(360/\text{beamwidth})$$
For other main or booster:

$$EIRP \leq 33dBW + 10\lg(X/Y) \text{ dBW} = 1995W + 10\lg(X/Y) \text{ dBW}$$
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.
Max EIRP Limit = $33dBW + 10\lg(X/Y) \text{ dBW} = 33 + 10 \cdot \lg(5/5.5) = 32.59dBW (1815.52W)$



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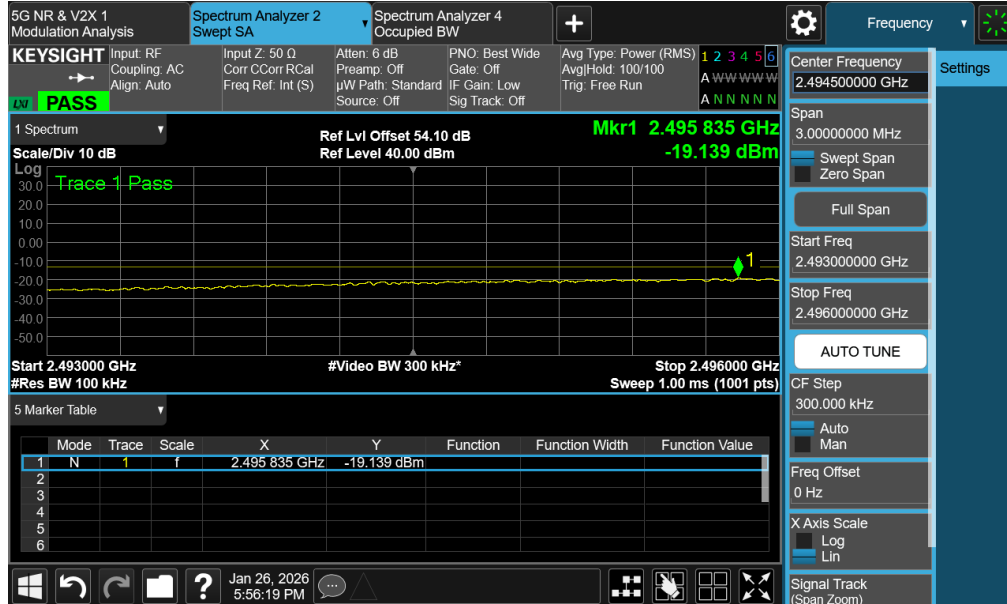
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4 Out-of-band/out-of-block(including intermodulation) emissions

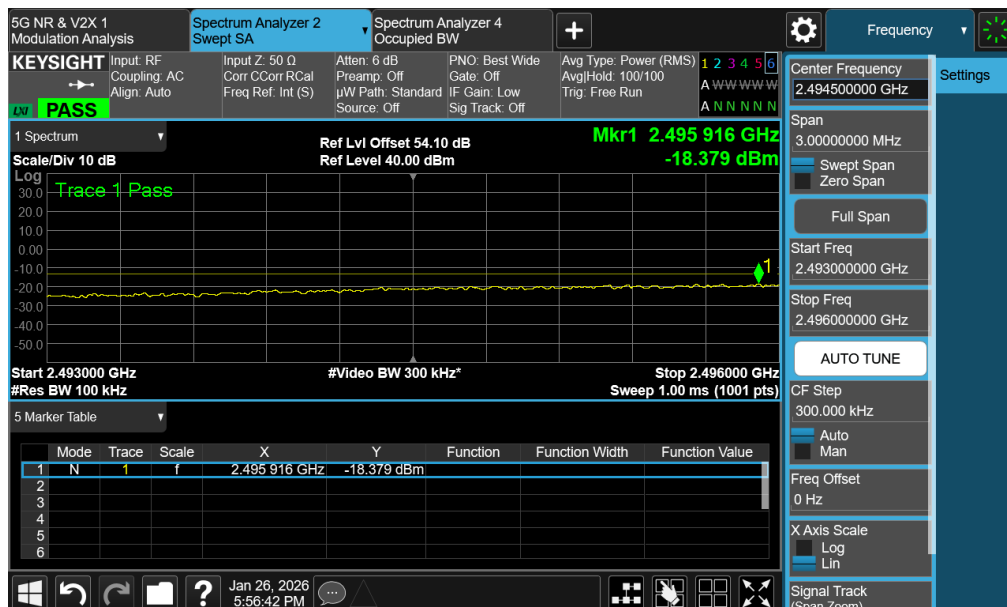
Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-19.13	≤-13	PASS
				3dB above AGC	-18.37		PASS
			Two signals input	Pre-AGC	-16.11		PASS
				3dB above AGC	-15.12		PASS
	HCH		One signal input	Pre-AGC	-16.97		PASS
				3dB above AGC	-15.21		PASS
			Two signals input	Pre-AGC	-20.13		PASS
				3dB above AGC	-18.36		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-14.02	≤-13	PASS
	3dB above AGC			-13.43	PASS		
	HCH		One signal input	Pre-AGC	-15.18		PASS
				3dB above AGC	-13.28		PASS
DL	LCH	GSM	One signal input	Pre-AGC	-24.98	≤-13	PASS
				3dB above AGC	-20.41		PASS
			Two signals input	Pre-AGC	-20.93		PASS
				3dB above AGC	-18.64		PASS
	HCH		One signal input	Pre-AGC	-26.26		PASS
				3dB above AGC	-23.66		PASS
			Two signals input	Pre-AGC	-24.36		PASS
				3dB above AGC	-23.54		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 + 10log10 (P) dB, here, P= 46dBm= 40W the limit = 46dBm- [43+ 10log10(40W)]dB = -13dBm							

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

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC

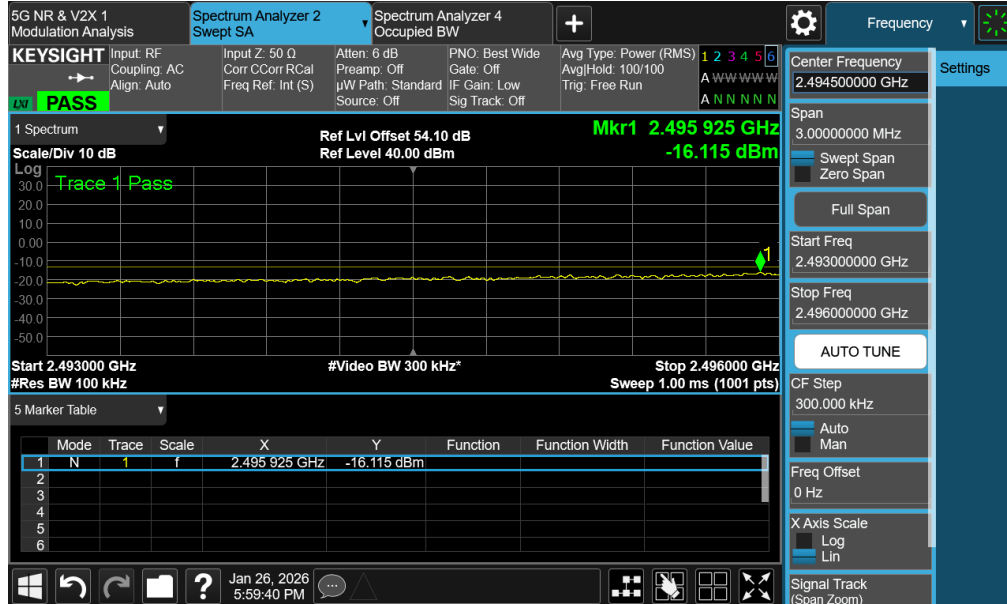


DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC

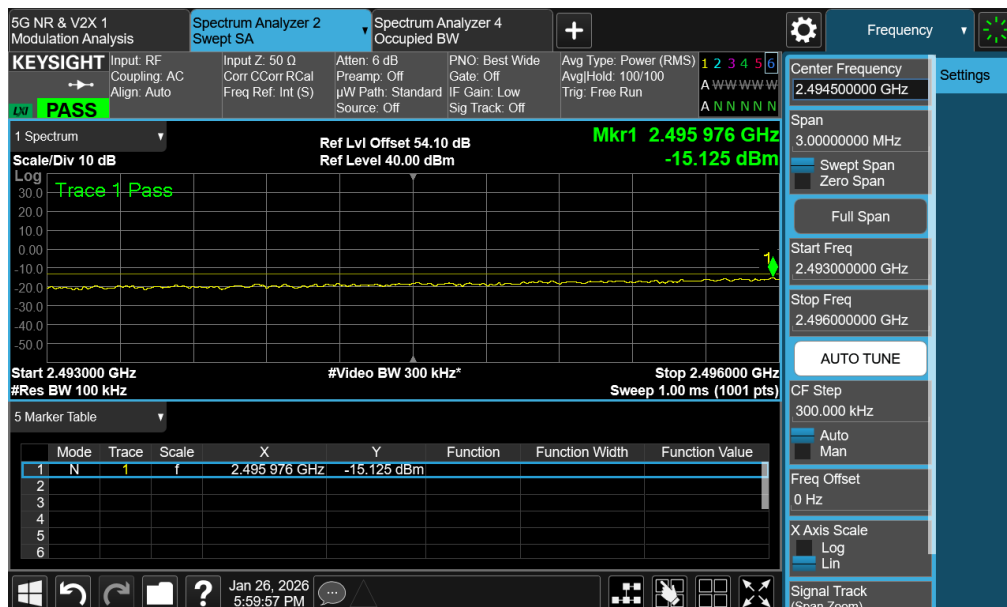


Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC

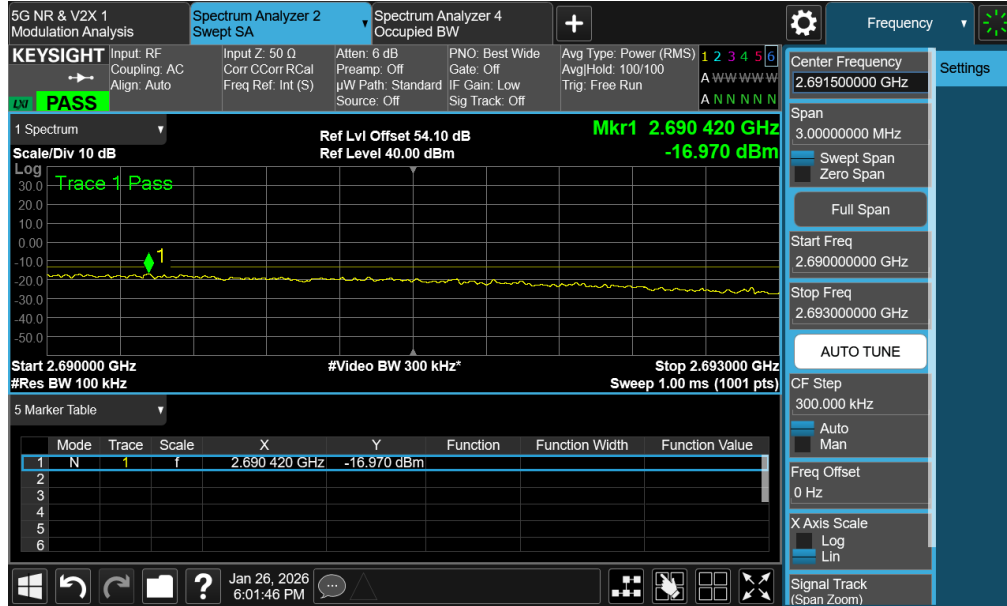


DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC

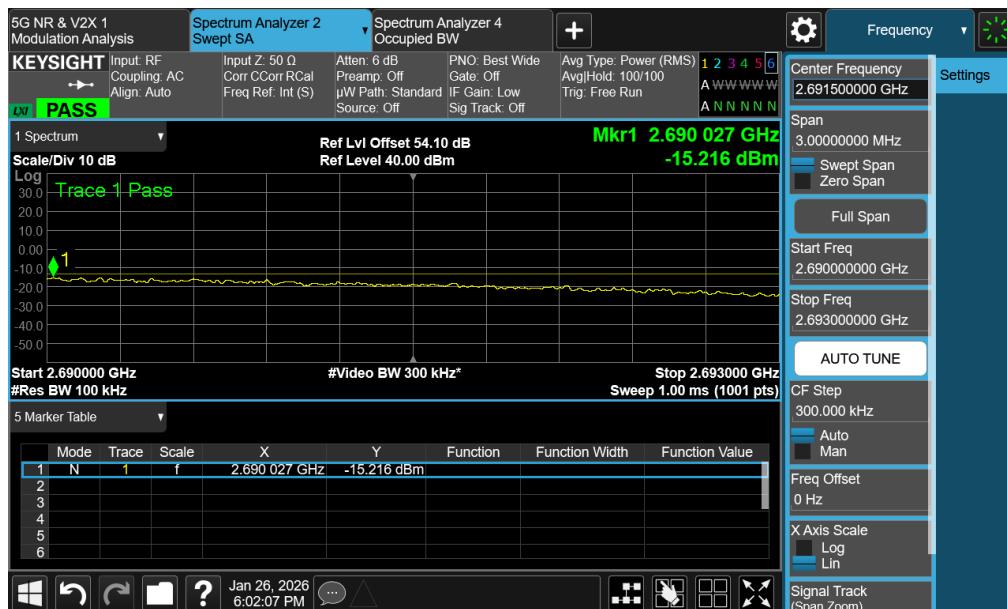


Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC

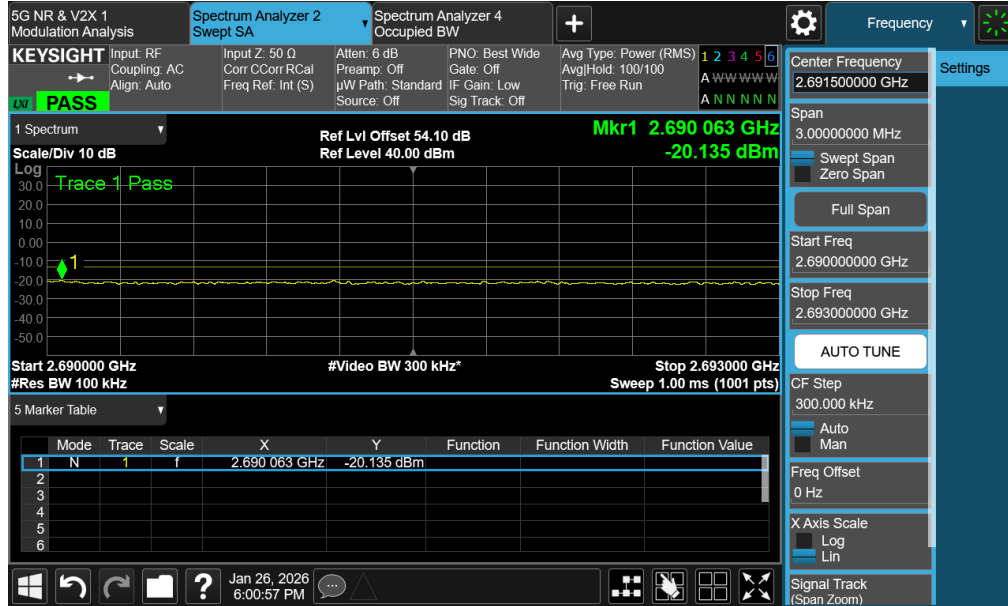


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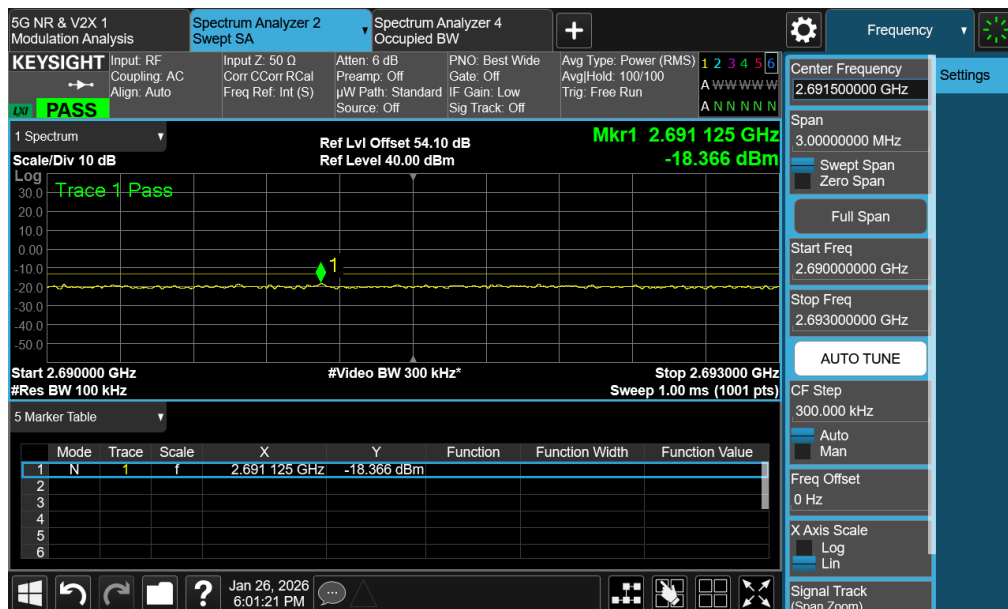
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC

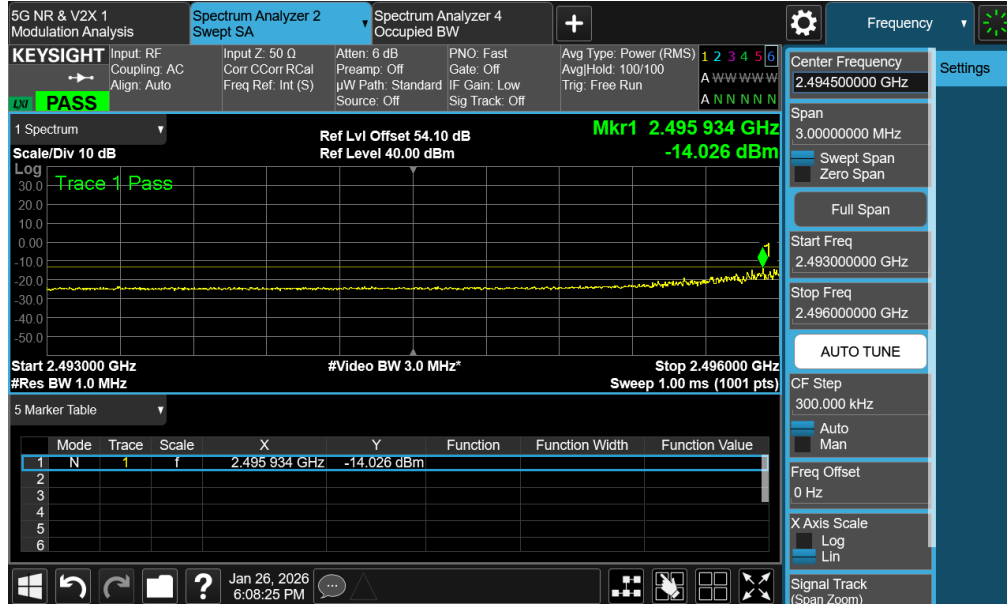


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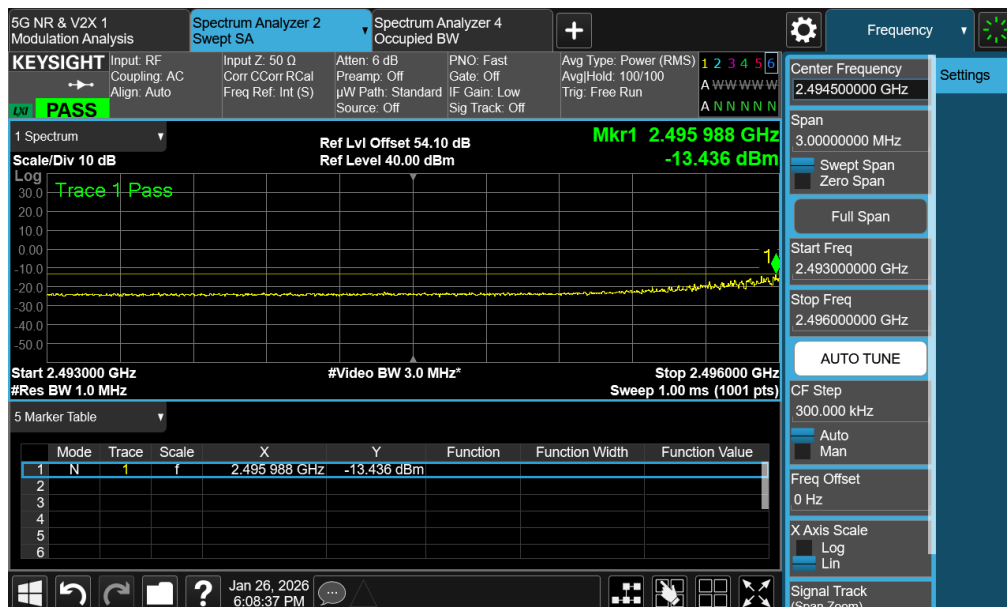
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC

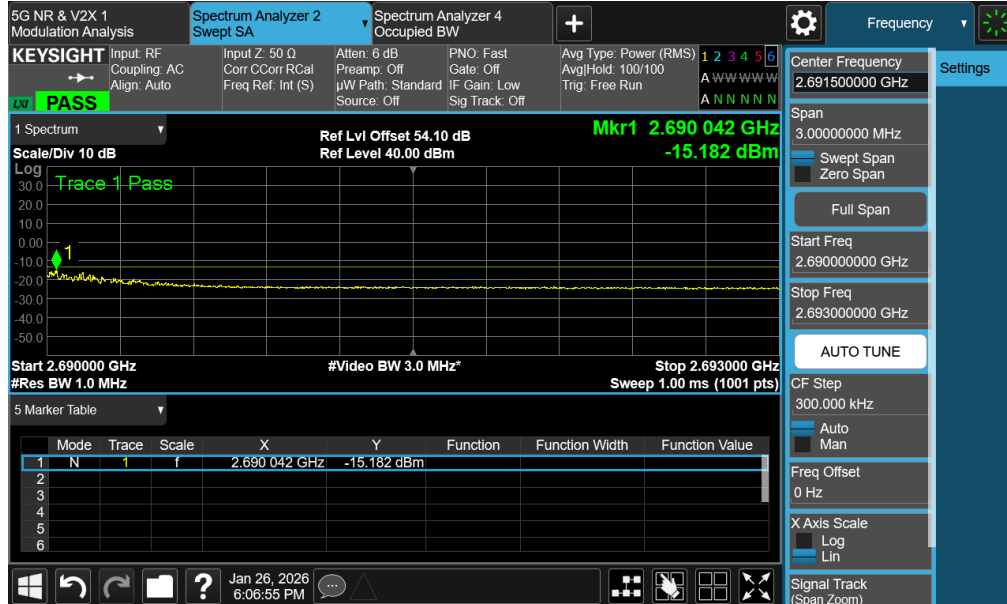


DL_100MHz AWGN_LCH_a single test signal_3dB above AGC

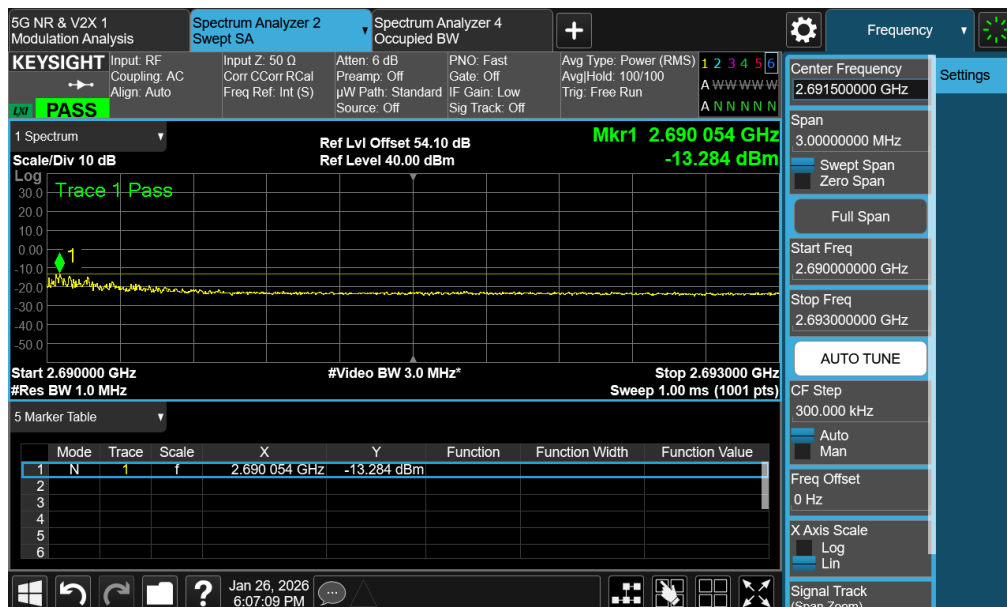


Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC

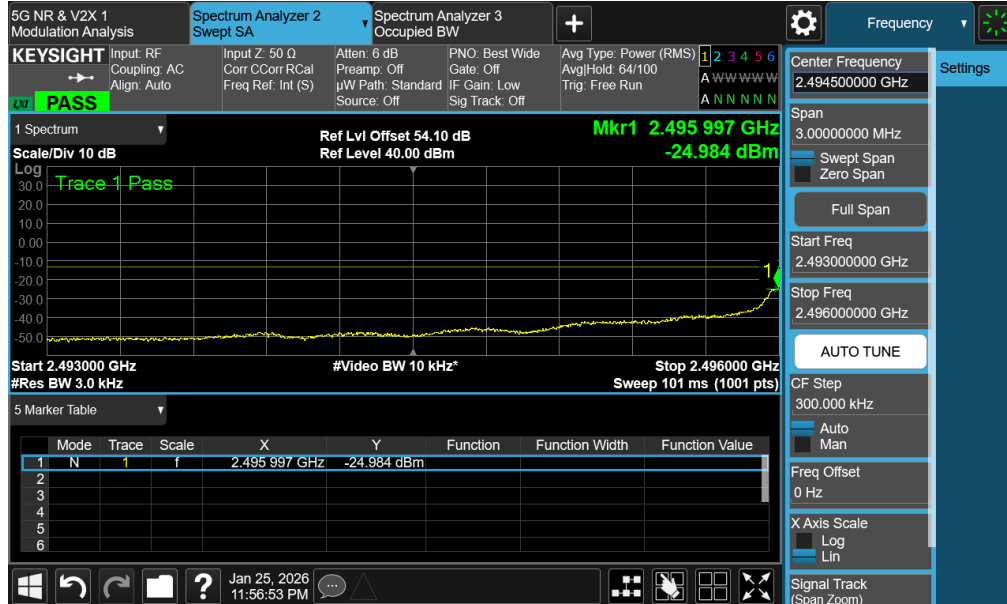


DL_100MHz AWGN_HCH_a single test signal_3dB above AGC

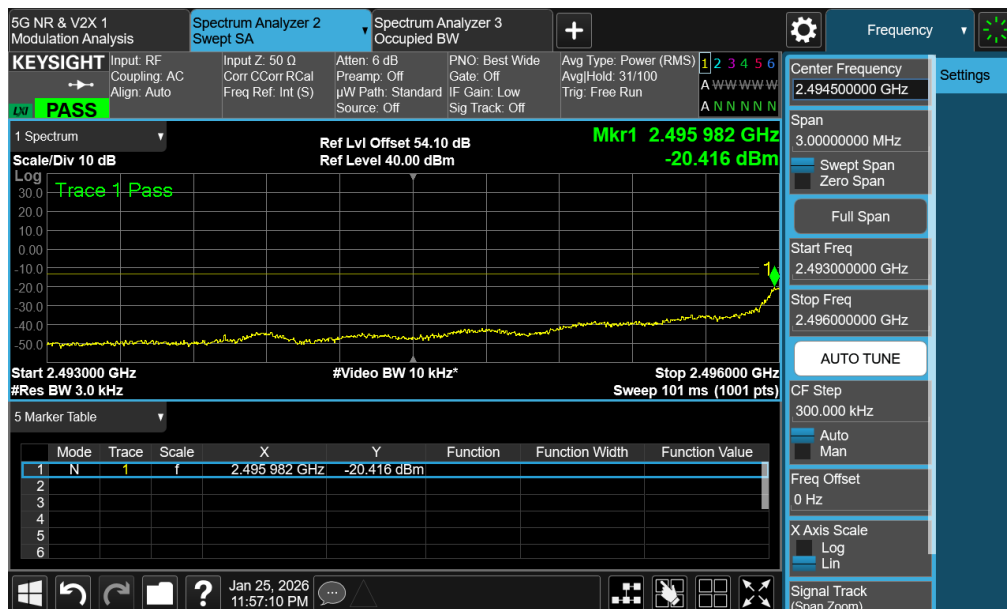


Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC

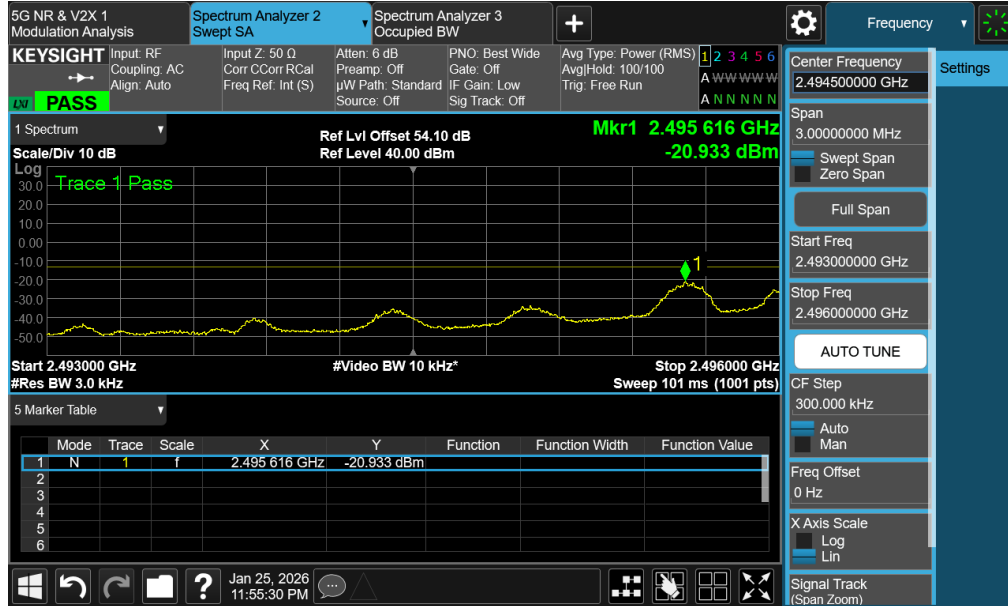


DL_GSM_LCH_a single test signal_3dB above AGC

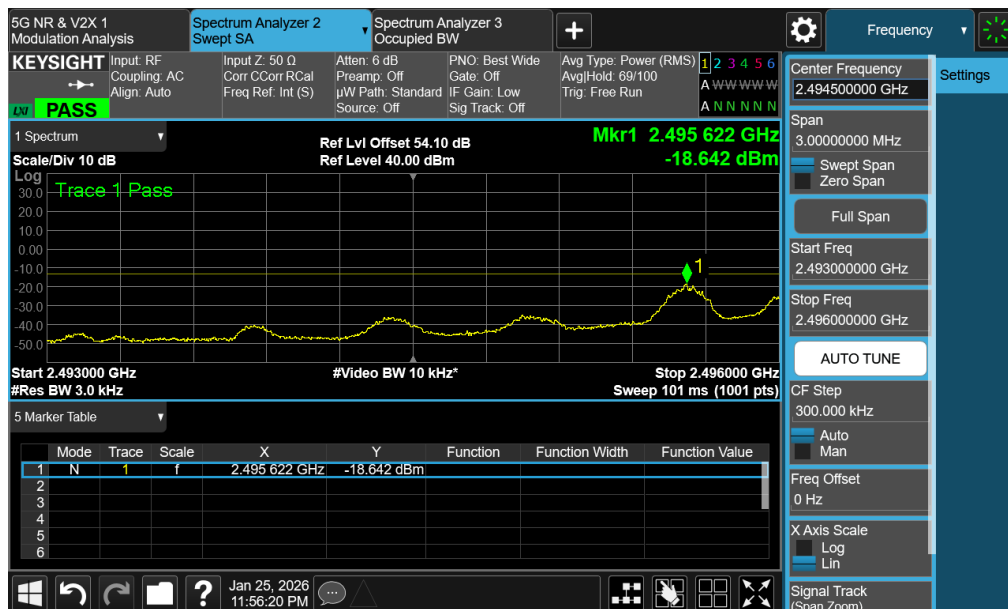


Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC

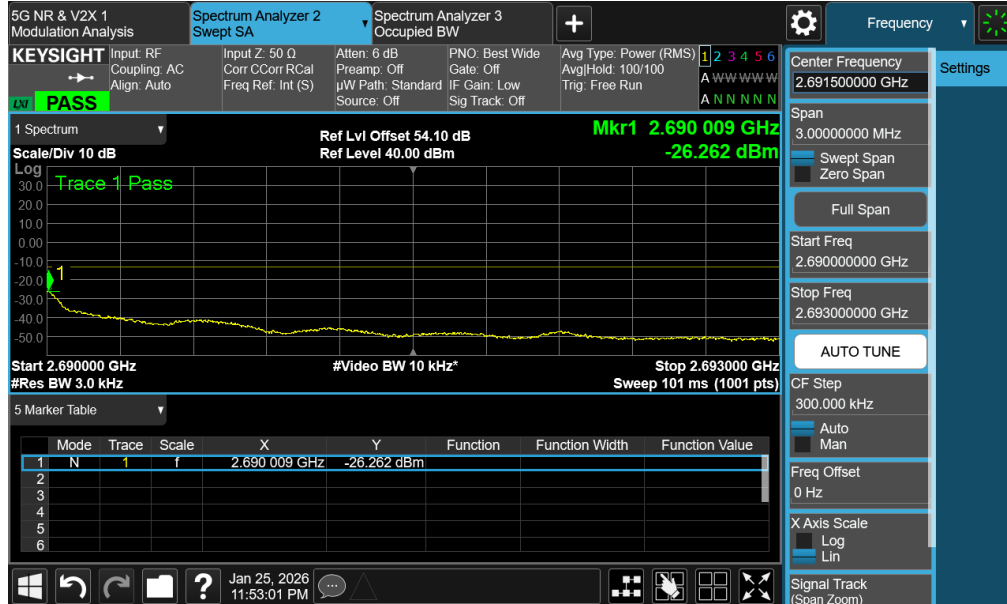


DL_GSM_LCH_two adjacent test signals_3dB above AGC

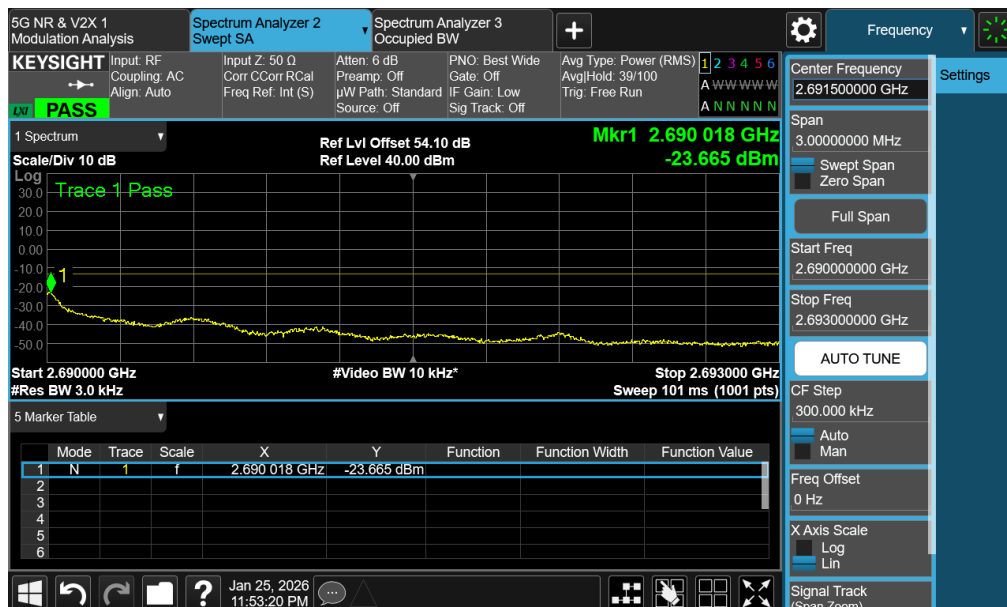


Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC

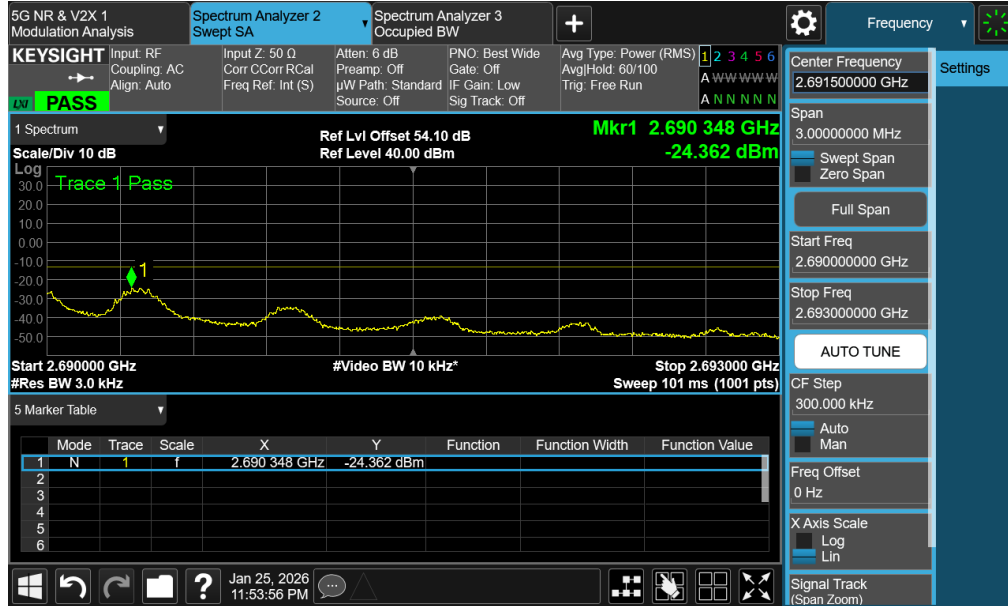


DL_GSM_HCH_a single test signal_3dB above AGC

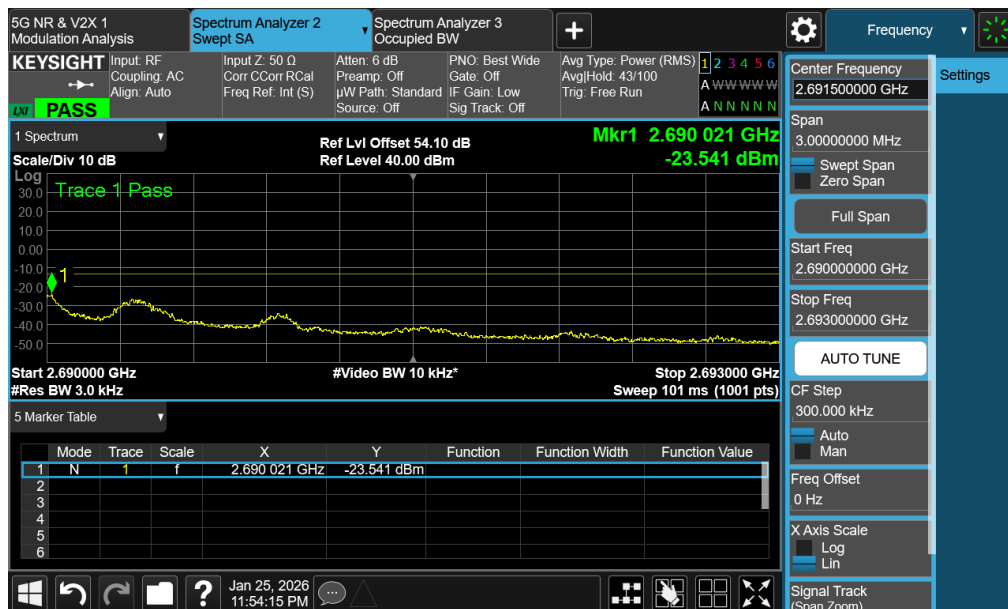


Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



DL_GSM_HCH_two adjacent test signals_3dB above AGC



5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	100MHz AWGN	LCH	0.09-1000	-42.47	≤-13	PASS
			1000-2495	-17.23	≤-13	PASS
		HCH	2691-26900	-16.01	≤-13	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,
 $P = 46\text{dBm} = 40\text{W}$
 $\text{limit} = 46\text{dBm} - [43 + 10\log_{10}(40\text{W})]\text{dB} = -13\text{dBm}$
- 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.
- The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.

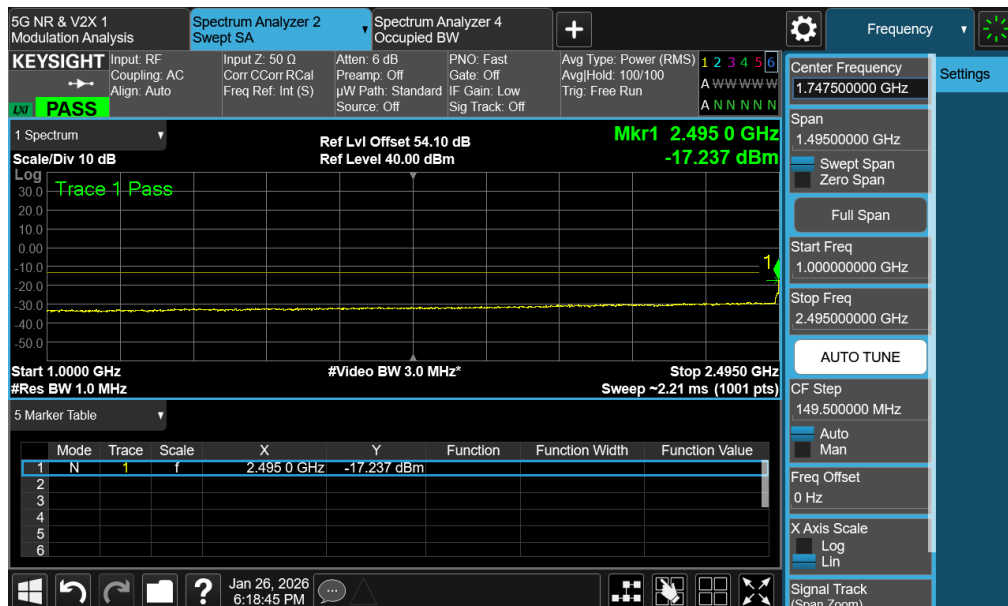
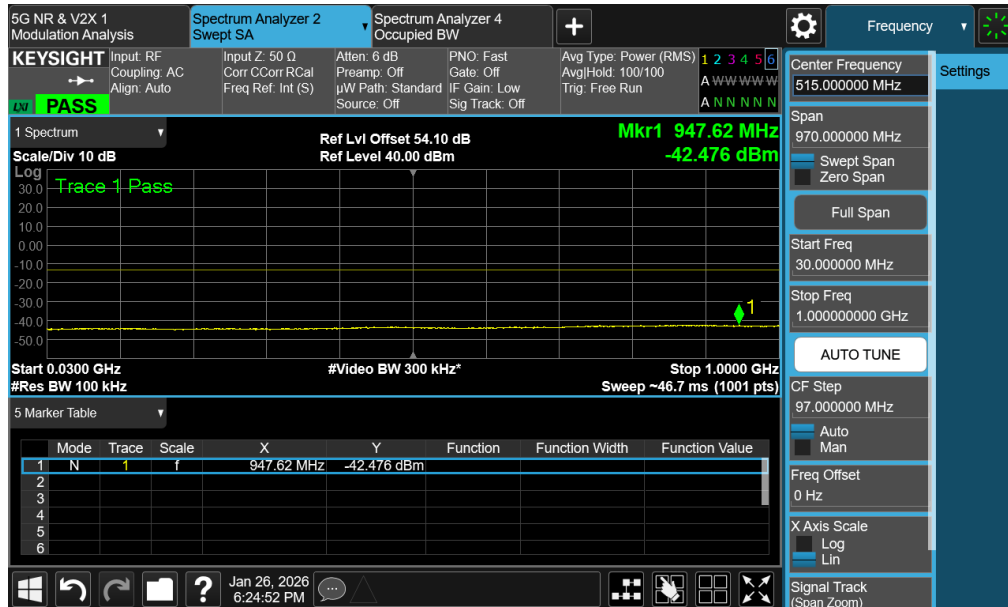


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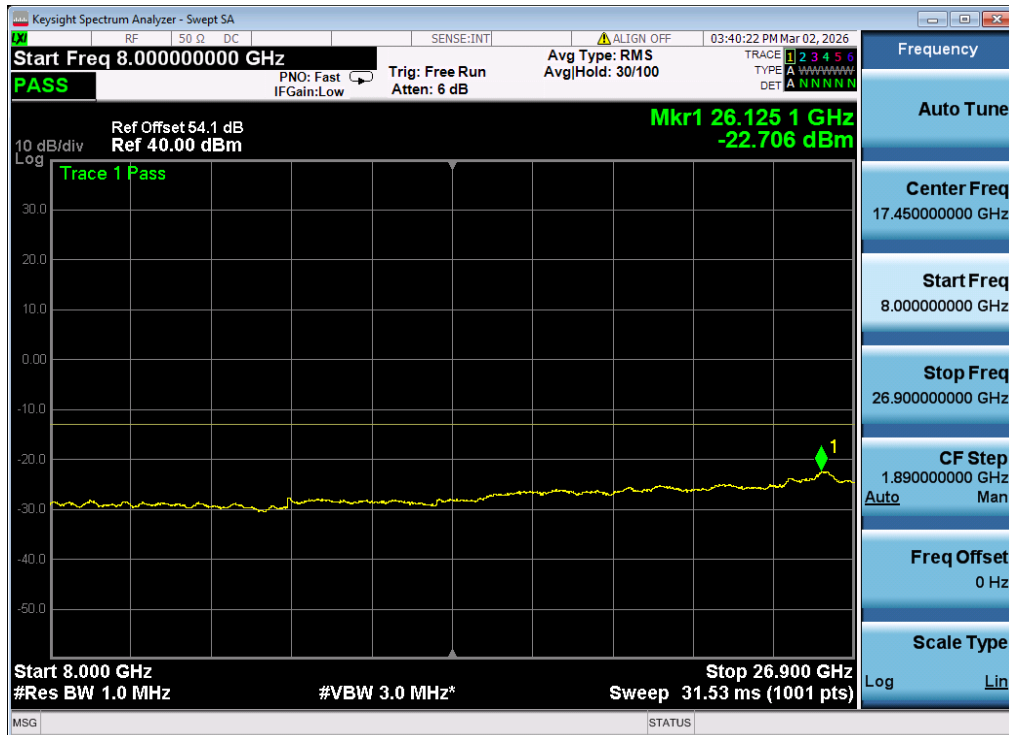
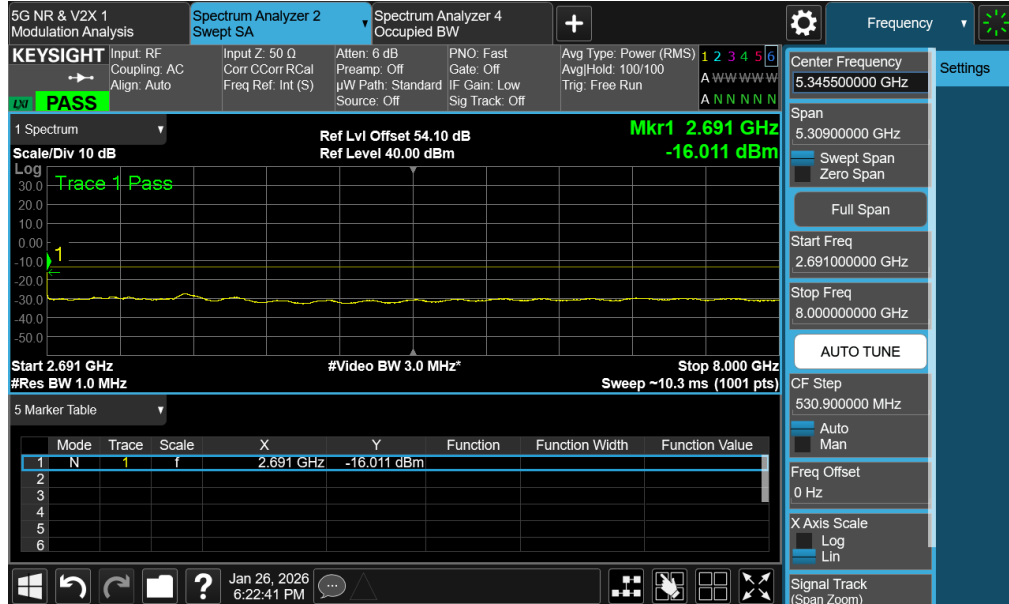
Conducted spurious emissions

DL_100MHz AWGN_LCH_Pre-AGC



Conducted spurious emissions

DL_100MHz AWGN_HCH_Pre-AGC



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

No.198, Kazhu 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.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	2.3	0.00089	PASS
			TN	VH	2.3	0.00089	PASS
		100MHz AWGN	TN	VL	2.7	0.00104	PASS
			TN	VH	2.7	0.00104	PASS
		GSM	TN	VL	2.2	0.00085	PASS
			TN	VH	2.2	0.00085	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	2.4	0.00093	PASS
			VN	+40	1.5	0.00058	PASS
			VN	+30	1.7	0.00066	PASS
			VN	+20	2.3	0.00089	PASS
			VN	+10	1.5	0.00058	PASS
			VN	0	1.2	0.00046	PASS
			VN	-10	2.4	0.00093	PASS
			VN	-20	2.3	0.00089	PASS
			VN	-30	1.6	0.00062	PASS
	MCH	100MHz AWGN	VN	+50	2.5	0.00096	PASS
			VN	+40	3.2	0.00123	PASS
			VN	+30	2.4	0.00093	PASS
			VN	+20	2.7	0.00104	PASS
			VN	+10	1.5	0.00058	PASS
			VN	0	2.4	0.00093	PASS
			VN	-10	1.2	0.00046	PASS
			VN	-20	1.5	0.00058	PASS
			VN	-30	1.6	0.00062	PASS
	MCH	GSM	VN	+50	2.0	0.00077	PASS
			VN	+40	2.8	0.00108	PASS
			VN	+30	2.2	0.00085	PASS
			VN	+20	2.2	0.00085	PASS
			VN	+10	2.7	0.00104	PASS
			VN	0	2.0	0.00077	PASS
			VN	-10	1.8	0.00069	PASS
			VN	-20	1.2	0.00046	PASS
			VN	-30	2.0	0.00077	PASS



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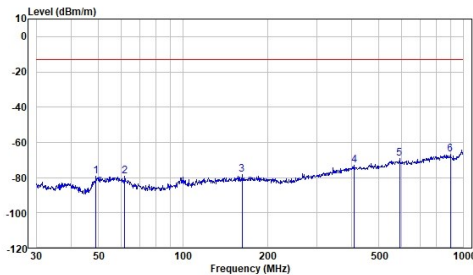
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7 Radiated Spurious emissions (below 1GHz)

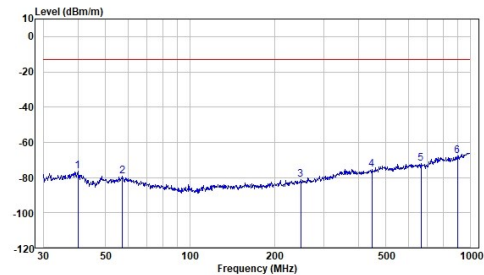
Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz

For HRU-253537-DC

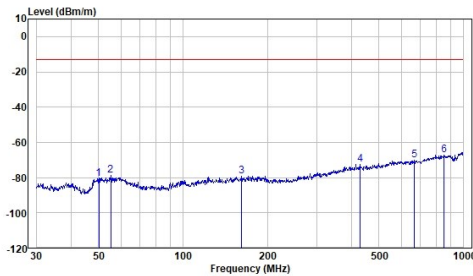


	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	Factor	dBm	dBm	dB	
1	48.84	-74.93	-4.36	-79.29	-13.00	-66.29	VERTICAL
2	62.00	-75.55	-3.46	-79.01	-13.00	-66.01	VERTICAL
3	162.61	-74.76	-3.42	-78.18	-13.00	-65.18	VERTICAL
4	408.95	-74.78	1.63	-73.15	-13.00	-60.15	VERTICAL
5	593.05	-73.83	4.47	-69.36	-13.00	-56.36	VERTICAL
6	900.15	-75.19	8.25	-66.94	-13.00	-53.94	VERTICAL

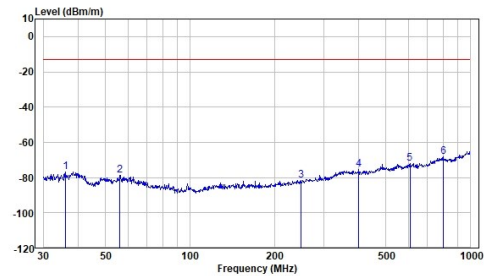


	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	Factor	dBm	dBm	dB	
1	39.85	-76.34	-0.24	-76.58	-13.00	-63.58	HORIZONTAL
2	57.39	-76.27	-2.68	-79.15	-13.00	-66.15	HORIZONTAL
3	248.55	-75.93	-5.42	-81.35	-13.00	-68.35	HORIZONTAL
4	444.85	-75.01	-0.30	-75.31	-13.00	-62.31	HORIZONTAL
5	668.14	-74.99	2.86	-72.13	-13.00	-59.13	HORIZONTAL
6	900.15	-75.87	7.94	-67.93	-13.00	-54.93	HORIZONTAL

For HRU-253537-AC



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	Factor	dBm	dBm	dB	
1	50.06	-77.53	-3.10	-80.63	-13.00	-67.63	VERTICAL
2	55.22	-75.77	-2.94	-78.71	-13.00	-65.71	VERTICAL
3	162.04	-75.70	-3.43	-79.13	-13.00	-66.13	VERTICAL
4	429.52	-74.08	1.62	-72.46	-13.00	-59.46	VERTICAL
5	670.49	-75.00	4.82	-70.18	-13.00	-57.18	VERTICAL
6	854.02	-75.79	8.56	-67.23	-13.00	-54.23	VERTICAL



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	Factor	dBm	dBm	dB	
1	36.00	-75.46	-1.26	-76.72	-13.00	-63.72	HORIZONTAL
2	56.20	-75.69	-2.93	-78.62	-13.00	-65.62	HORIZONTAL
3	249.43	-76.29	-5.39	-81.68	-13.00	-68.68	HORIZONTAL
4	400.43	-74.70	-0.70	-75.40	-13.00	-62.40	HORIZONTAL
5	609.92	-74.62	2.65	-71.97	-13.00	-58.97	HORIZONTAL
6	801.79	-74.97	6.72	-68.25	-13.00	-55.25	HORIZONTAL

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 data in this report.



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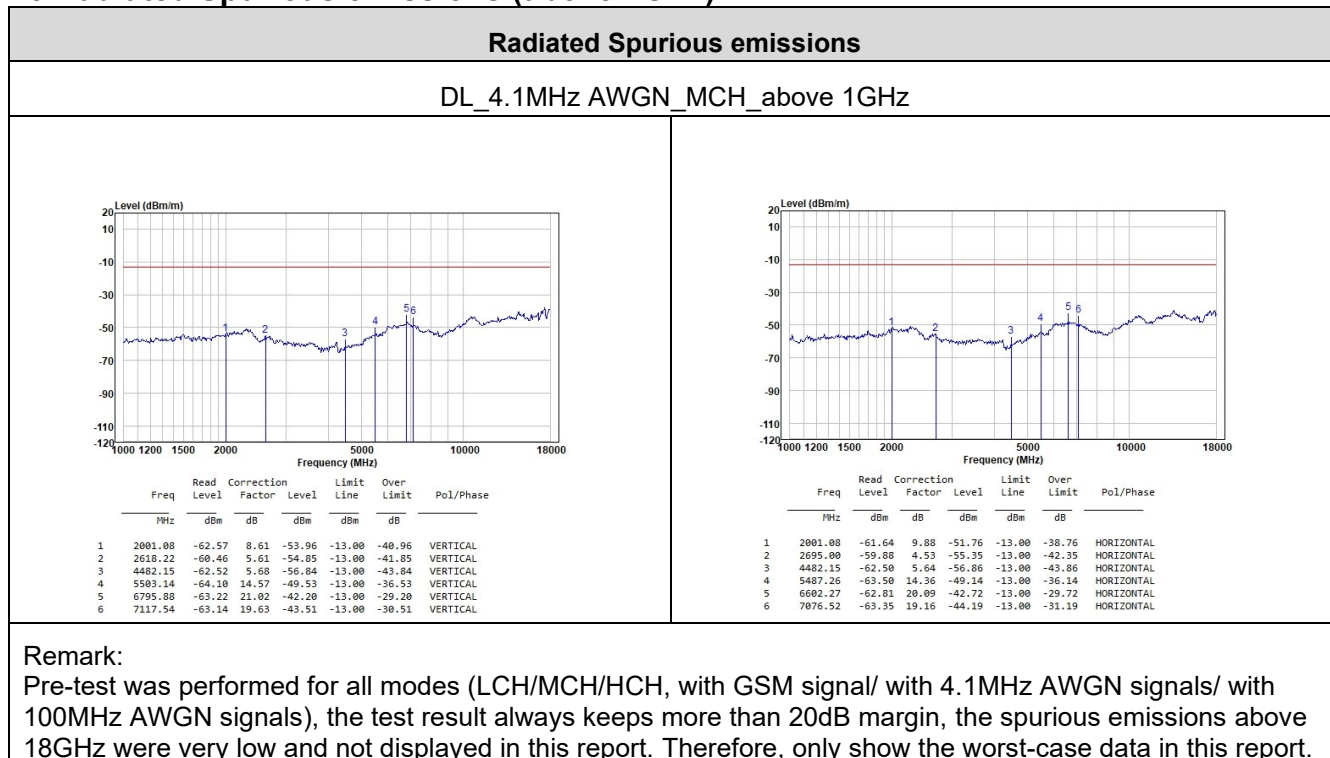
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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Guangzhou, China

No.198, Kazhu 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.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

8 Radiated Spurious emissions (above 1GHz)



--End of Appendix--