



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

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FCC ID: OJFDMRUG21719

Appendix -

Test Data and Result for report

GZCR230600056803

(For DL 1930-1995MHz)



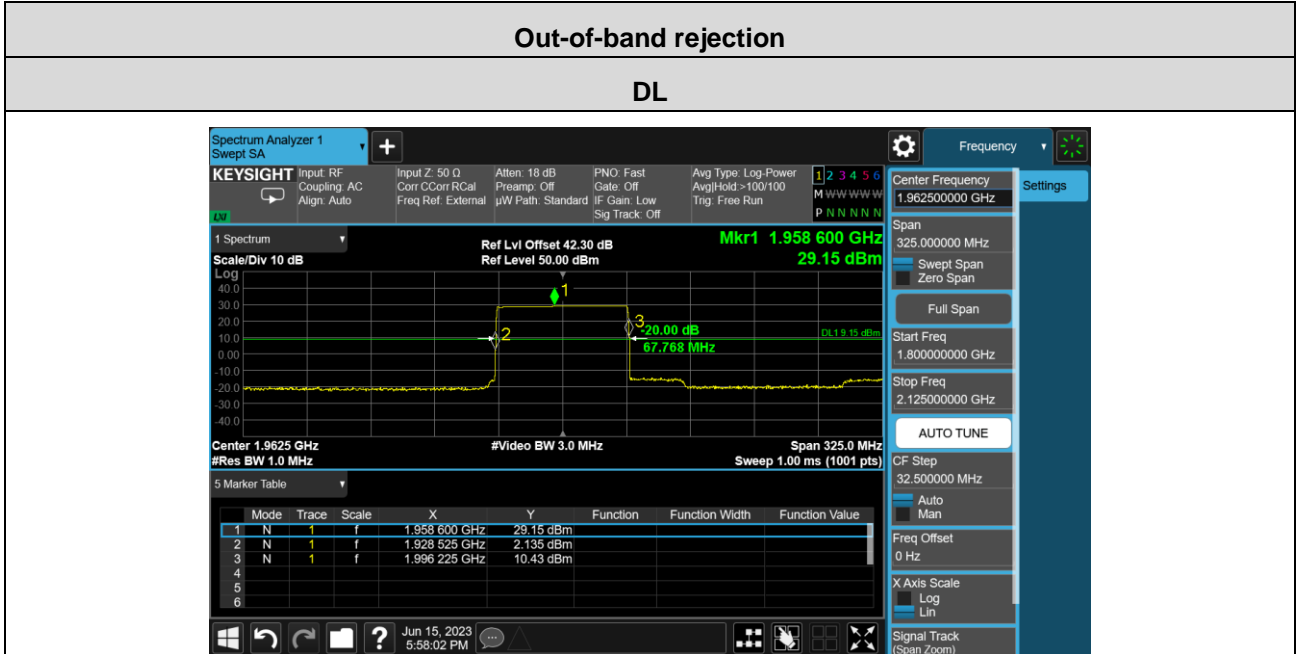
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1 Out-of-band rejection



The peak of the frequency response f_0 is 1958.6MHz.

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.



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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:

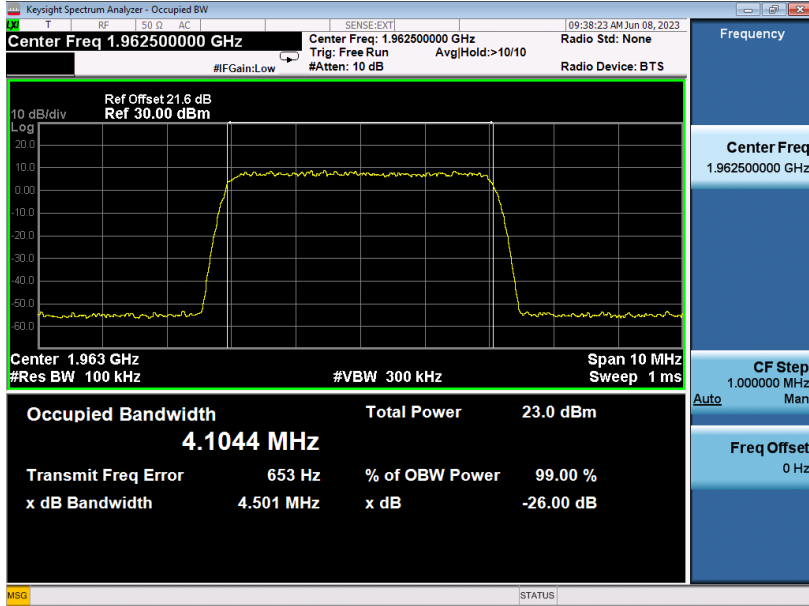
- * The band supports maximum single channel BW is 60MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
- Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.



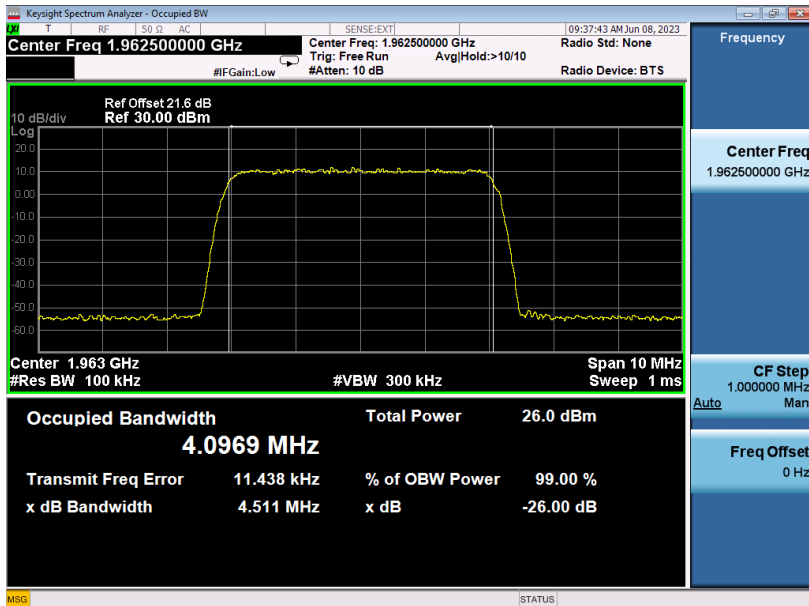
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99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



DL_4.1MHz AWGN_MCH_Input_3dB above AGC

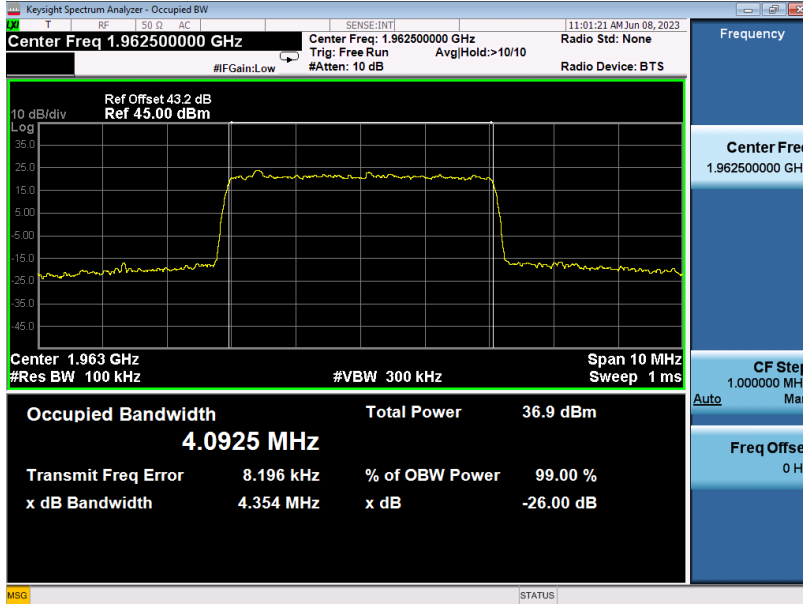


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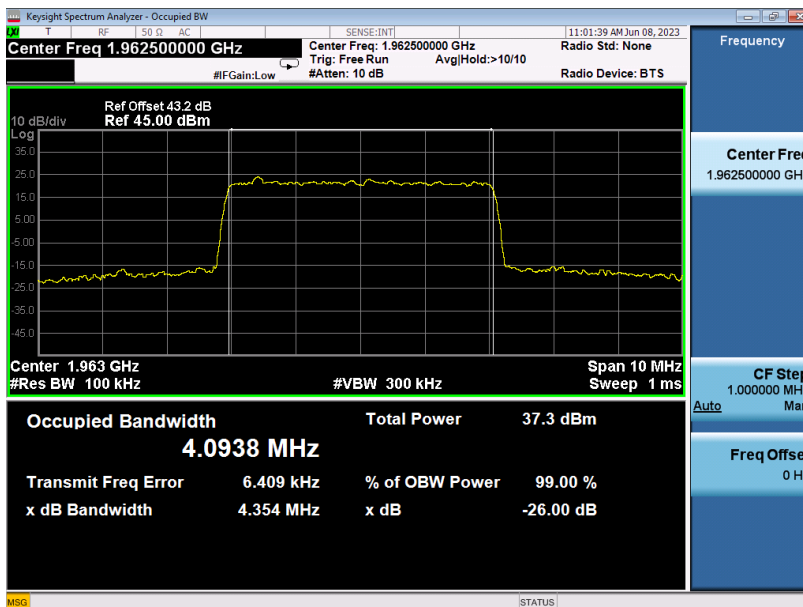
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99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC



DL_4.1MHz AWGN_MCH_Output_3dB above AGC

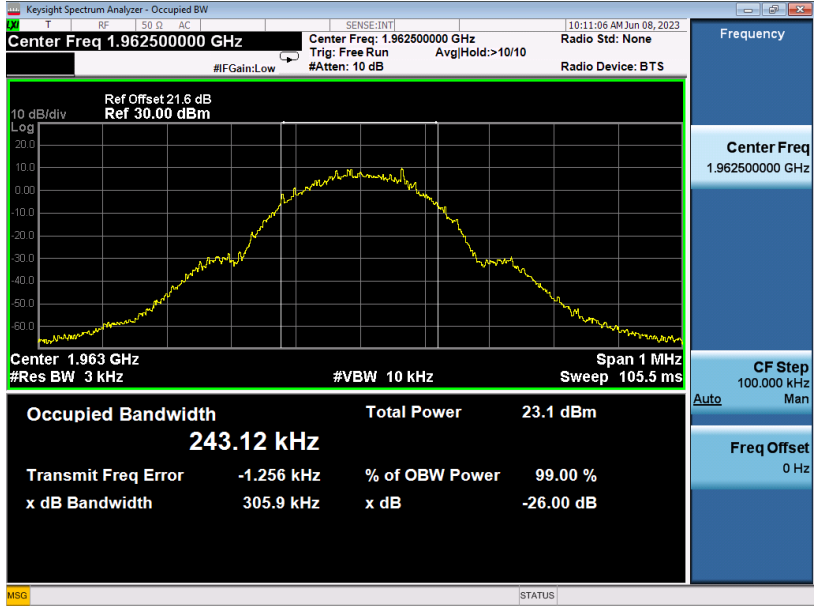


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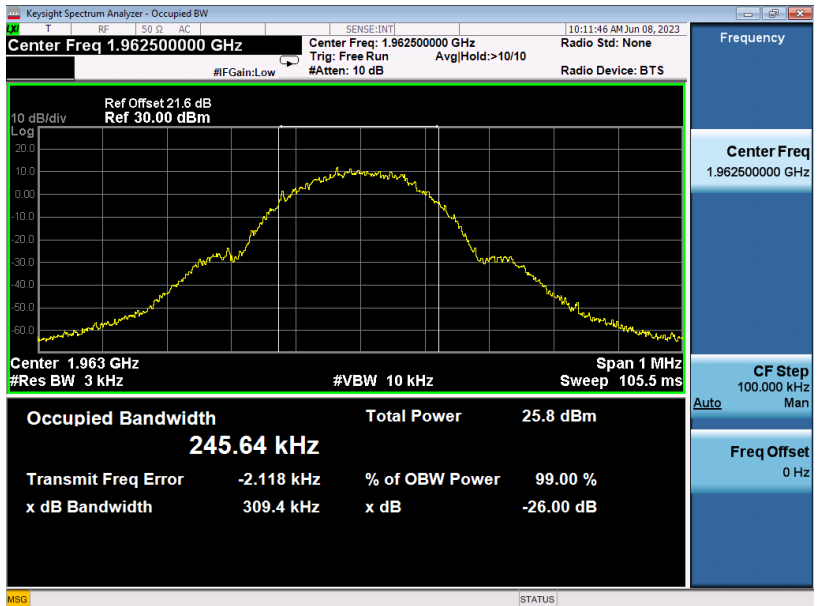
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99% OBW

DL_GSM_MCH_Input_Pre-AGC



DL_GSM_MCH_Input_3dB above AGC

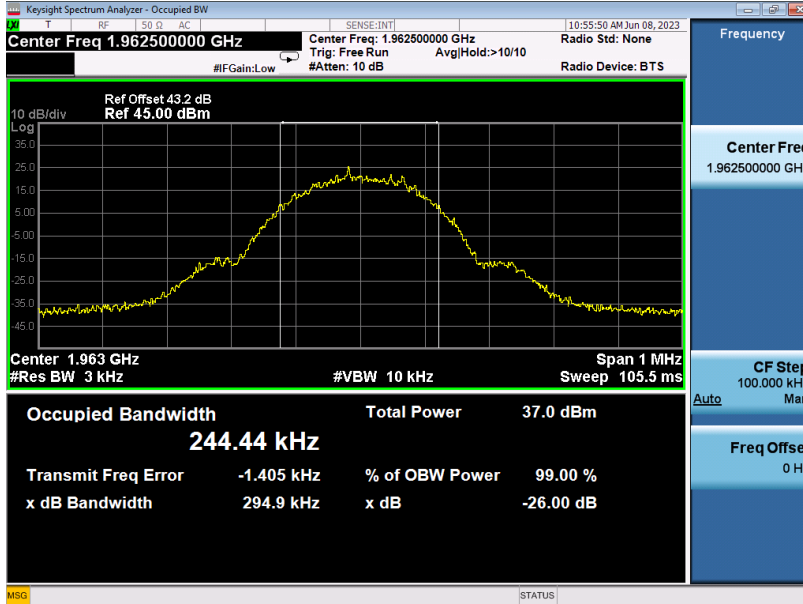


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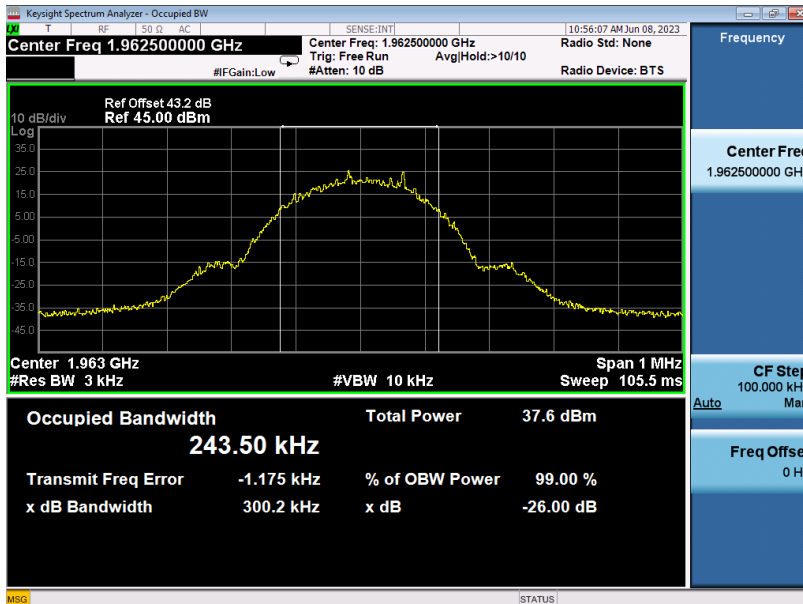
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99% OBW

DL_GSM_MCH_Output_Pre-AGC



DL_GSM_MCH_Output_3dB above AGC

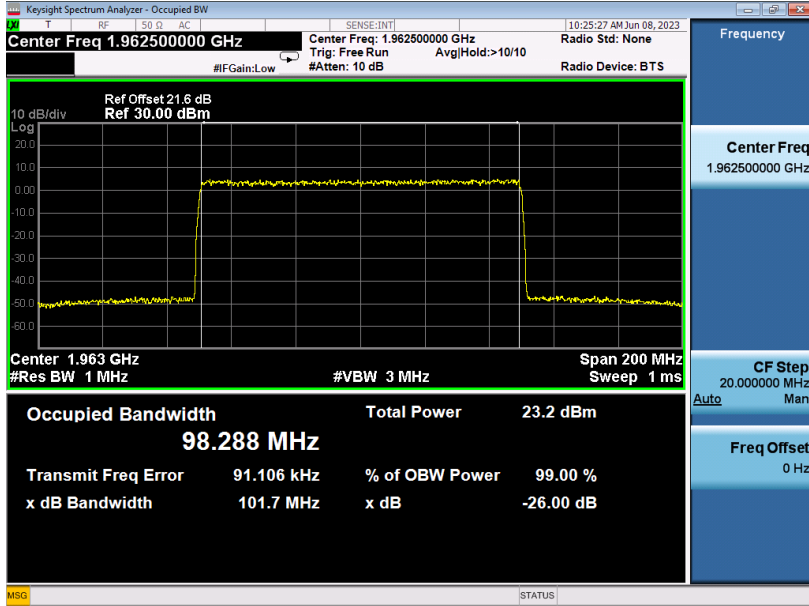


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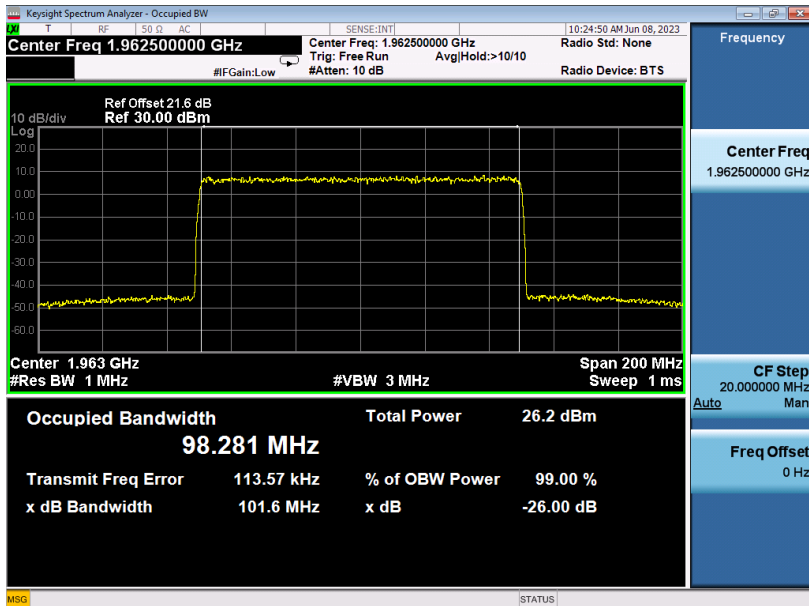
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99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC



DL_100MHz AWGN_MCH_Input_3dB above AGC

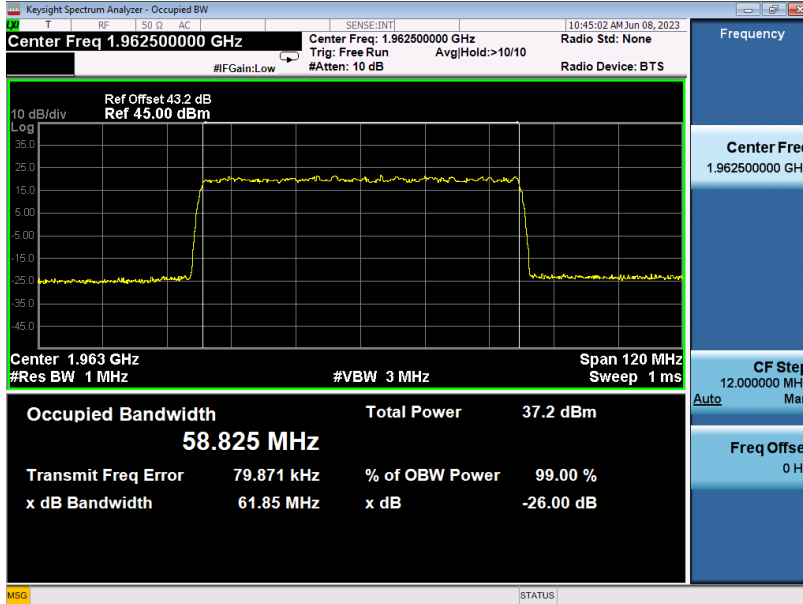


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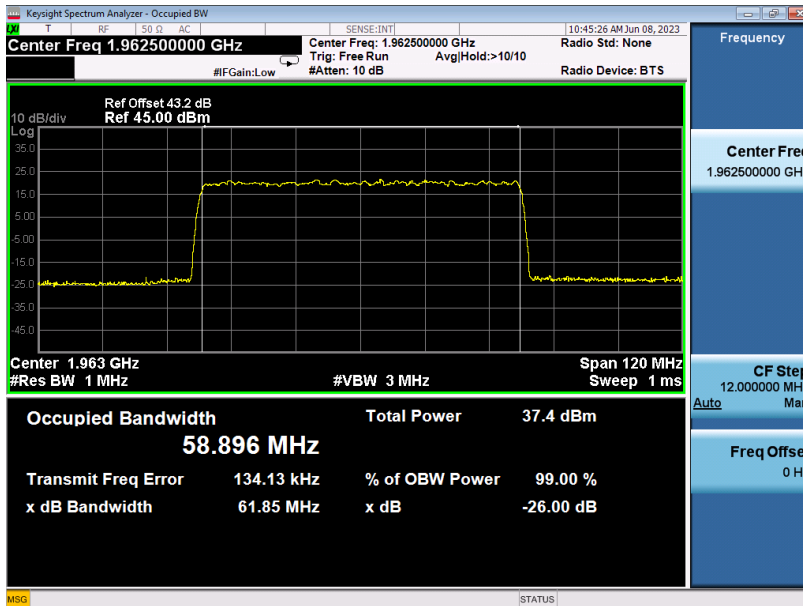
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99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



DL_100MHz AWGN_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. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO EIRP (W)	Total EIRP (W)	Gain (dB)
DL	1958.6	4.1MHz AWGN	Pre-AGC	23.00	37.26	53.22	212.82	14.26
			3dB above AGC	26.00	37.13	51.65	206.54	/
		100MHz AWGN	Pre-AGC	22.00	36.67	46.46	185.79	14.67
			3dB above AGC	25.00	36.74	47.21	188.80	/
		GSM	Pre-AGC	23.00	37.88	61.38	245.48	14.88
			3dB above AGC	26.00	37.53	56.63	226.47	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer, the directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi = 13dBi.
- The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict
DL	1958.6	4.1MHz AWGN	Pre-AGC	31.56	14.33	57.29	PASS
			3dB above AGC	31.72	14.86	59.43	PASS
		100MHz AWGN	Pre-AGC	25.03	3.19	12.74	PASS
			3dB above AGC	24.97	3.15	12.57	PASS
		GSM	Pre-AGC	37.88	61.38	245.48	PASS
			3dB above AGC	37.53	56.63	226.47	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer, the directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi = 13dBi.
- The output power is limited to an EIRP of 1640W/MHz.
- The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.



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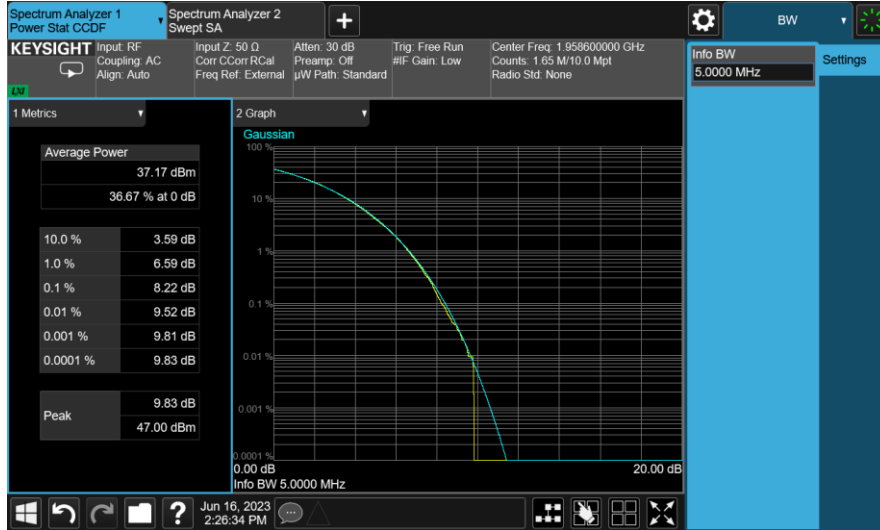
Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
DL	1958.6	4.1MHz AWGN	Pre-AGC	8.22	≤13	PASS
			3dB above AGC	8.16		PASS
		100MHz AWGN	Pre-AGC	8.50		PASS
			3dB above AGC	8.33		PASS
<p>Remark: The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN (pre-AGC) were record in the report for demonstrate PAR compliance.</p>						



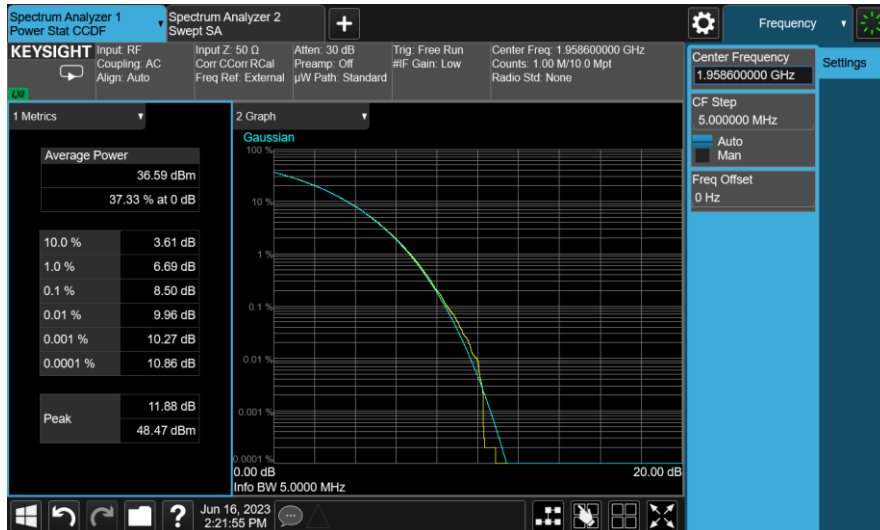
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Peak-to-average ratio (PAR)

DL_4.1MHz AWGN_Pre-AGC



DL_100MHz AWGN_Pre-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)	Verdict
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-24.93	≤-16	PASS
				3dB above AGC	-26.63		PASS
			Two signals input	Pre-AGC	-24.63		PASS
				3dB above AGC	-25.41		PASS
	HCH		One signal input	Pre-AGC	-24.18		PASS
				3dB above AGC	-24.52		PASS
			Two signals input	Pre-AGC	-25.27		PASS
				3dB above AGC	-24.19		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-19.64	≤-16	PASS
				3dB above AGC	-20.18		PASS
			Two signals input	Pre-AGC	-19.02		PASS
				3dB above AGC	-18.38		PASS
	HCH		One signal input	Pre-AGC	-19.83		PASS
				3dB above AGC	-20.01		PASS
			Two signals input	Pre-AGC	-18.93		PASS
				3dB above AGC	-19.41		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,
 $P = 37\text{dBm} = 5.02\text{W}$
the limit = $37\text{dBm} - [43 + 10\log_{10}(5.02\text{W})]$ dB = -13dBm
- For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



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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
Downlink	LCH	GSM	One signal input	Pre-AGC	-27.28	≤ -16	PASS
				3dB above AGC	-26.29		PASS
			Two signals input	Pre-AGC	-20.49		PASS
				3dB above AGC	-20.95		PASS
	HCH		One signal input	Pre-AGC	-19.92		PASS
				3dB above AGC	-20.33		PASS
			Two signals input	Pre-AGC	-25.43		PASS
				3dB above AGC	-25.46		PASS

Remark:

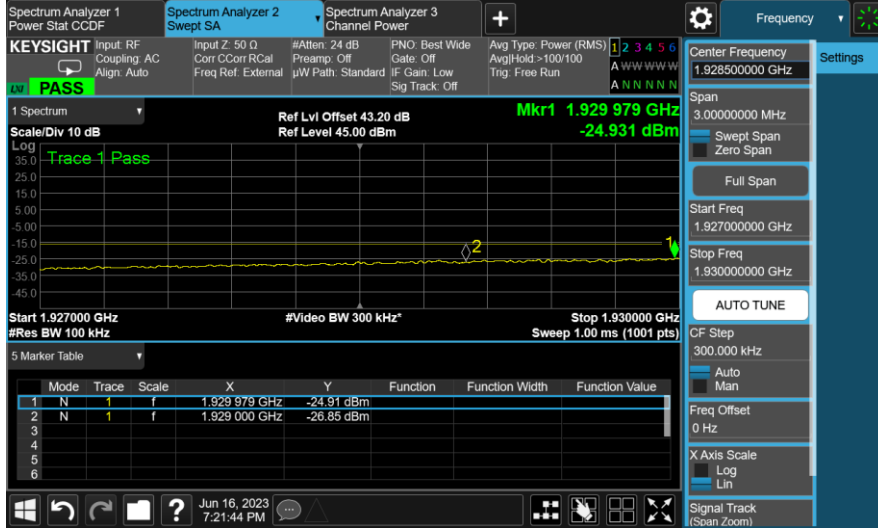
- The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,
 $P = 37\text{dBm} = 5.02\text{W}$
the limit = $37\text{dBm} - [43 + 10 \log_{10}(5.02\text{W})]$ dB = -13dBm
- For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



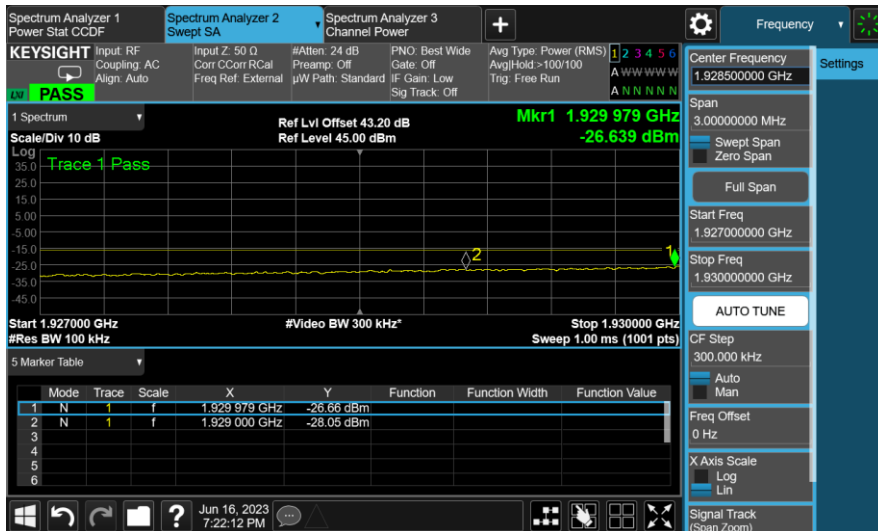
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC

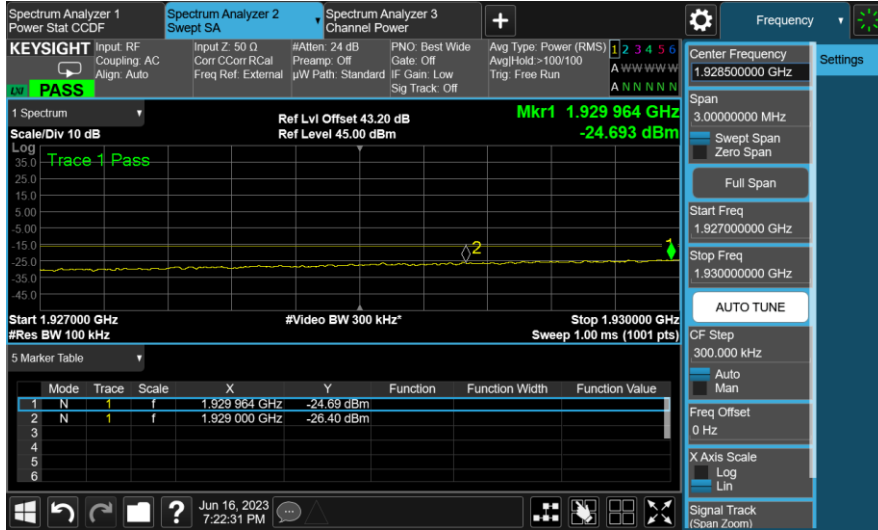


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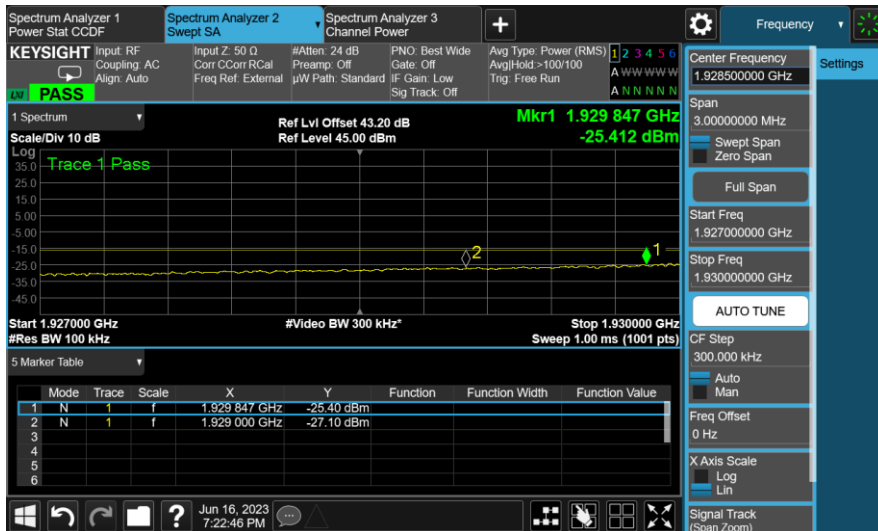
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC

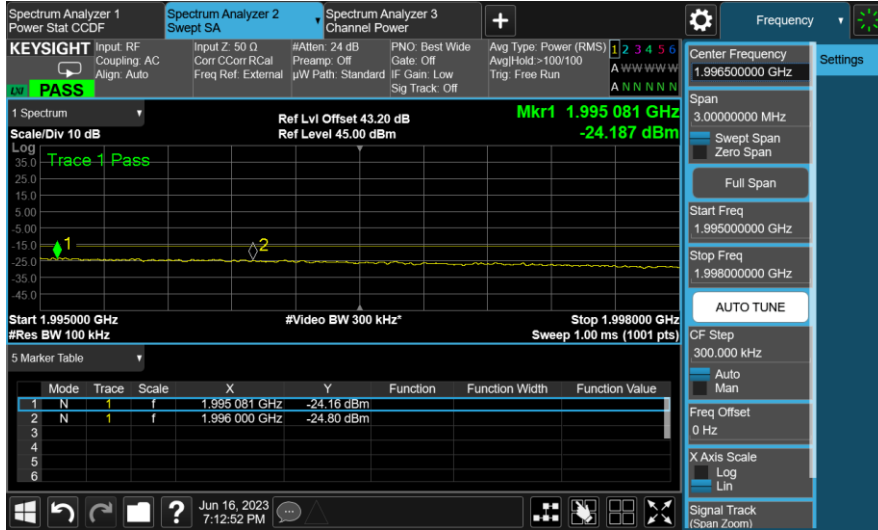


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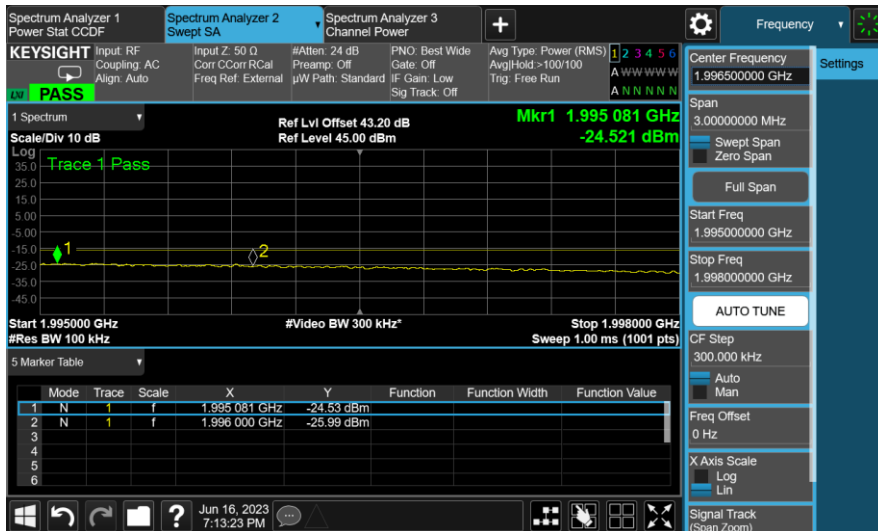
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC

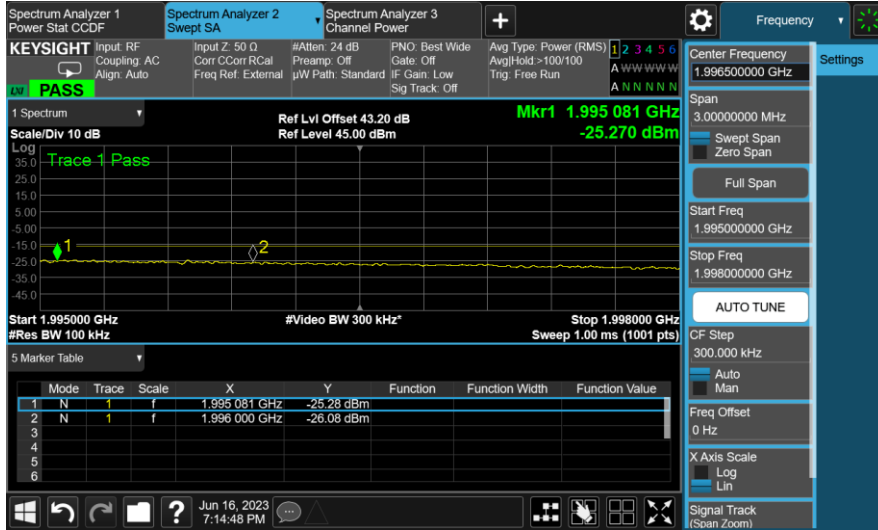


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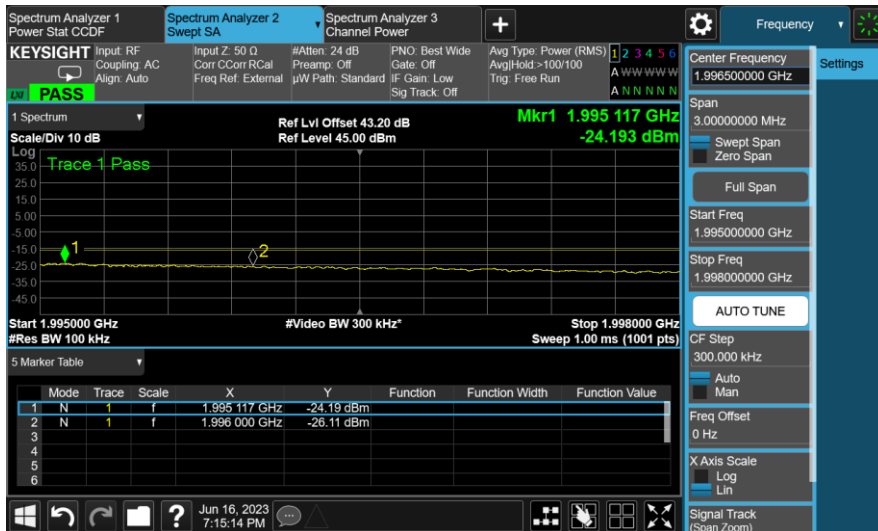
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC

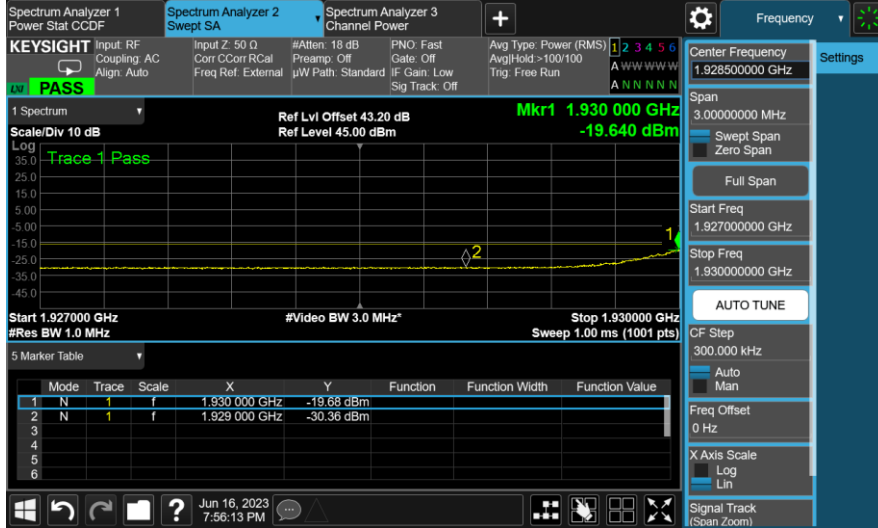


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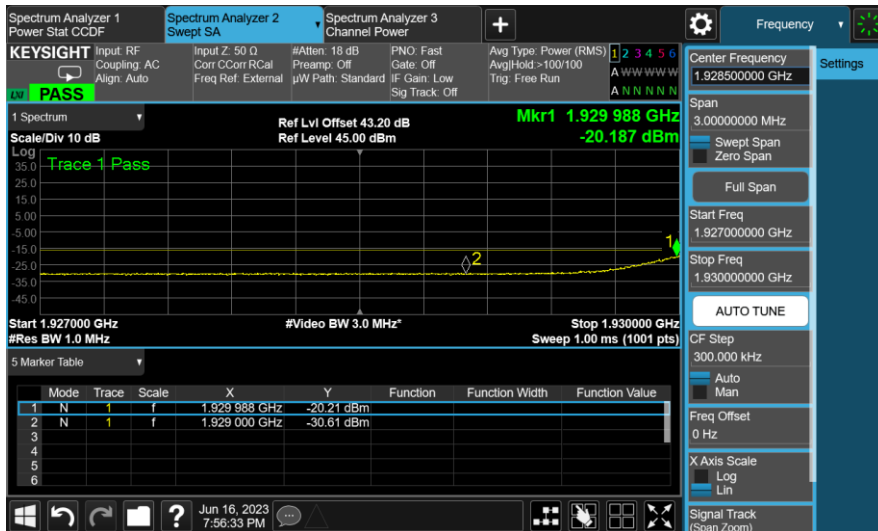
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



DL_100MHz AWGN_LCH_a single test signal_3dB above AGC

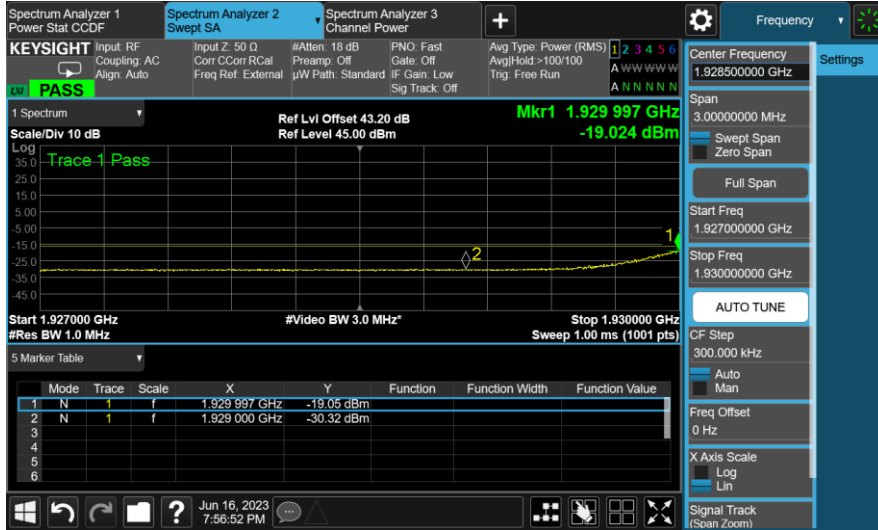


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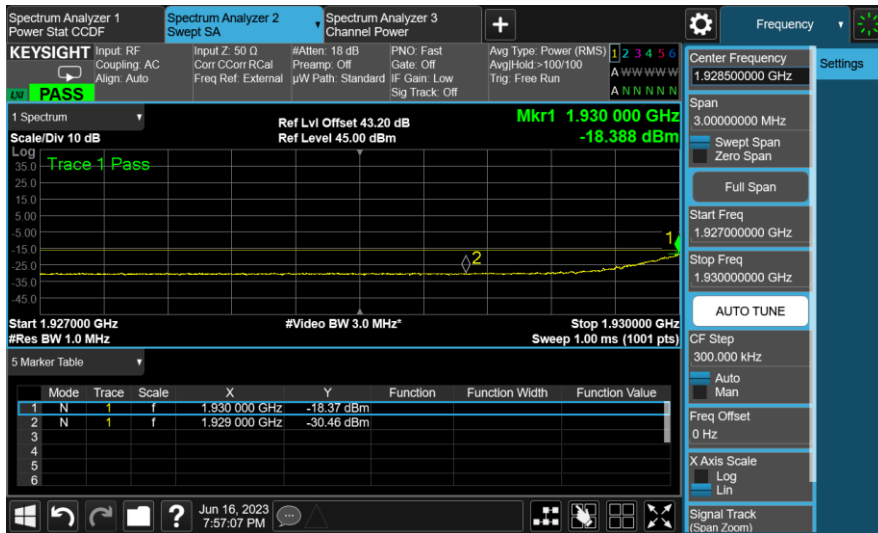
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_100MHz AWGN_LCH_two adjacent test signals_3dB above AGC

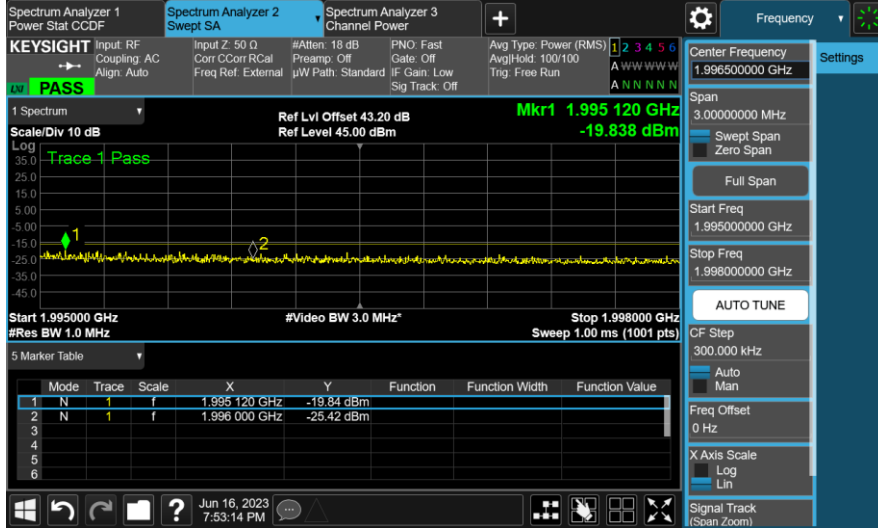


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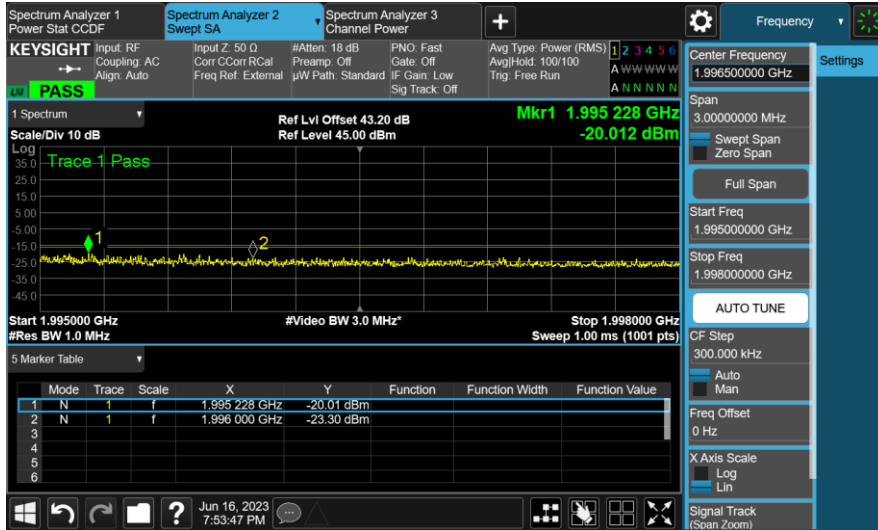
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



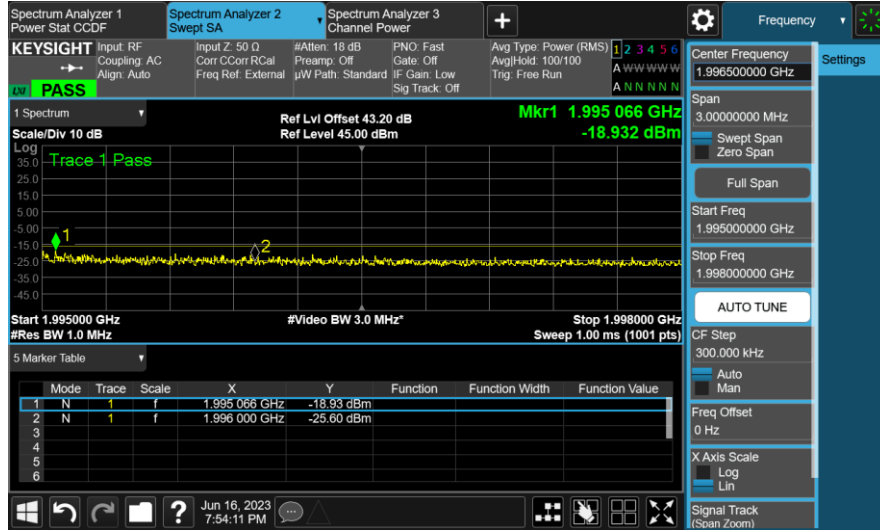
DL_100MHz AWGN_HCH_a single test signal_3dB above AGC



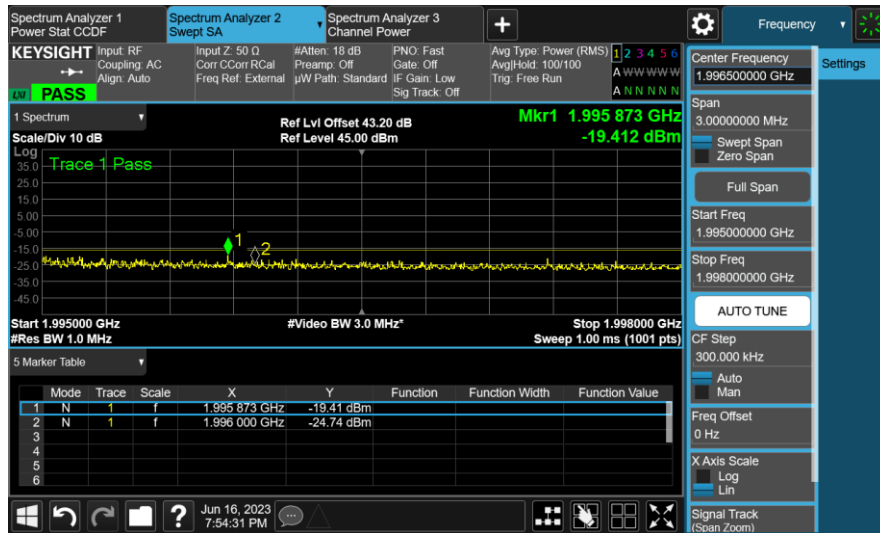
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_100MHz AWGN_HCH_two adjacent test signals_3dB above AGC

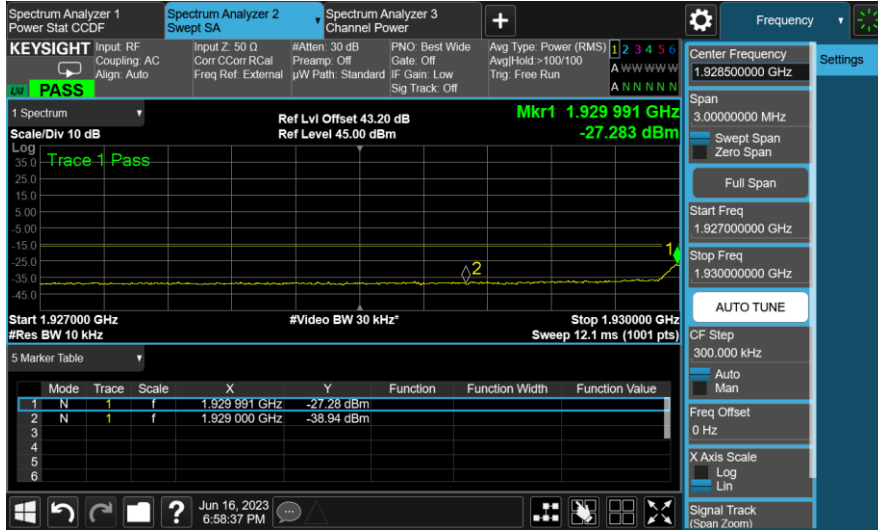


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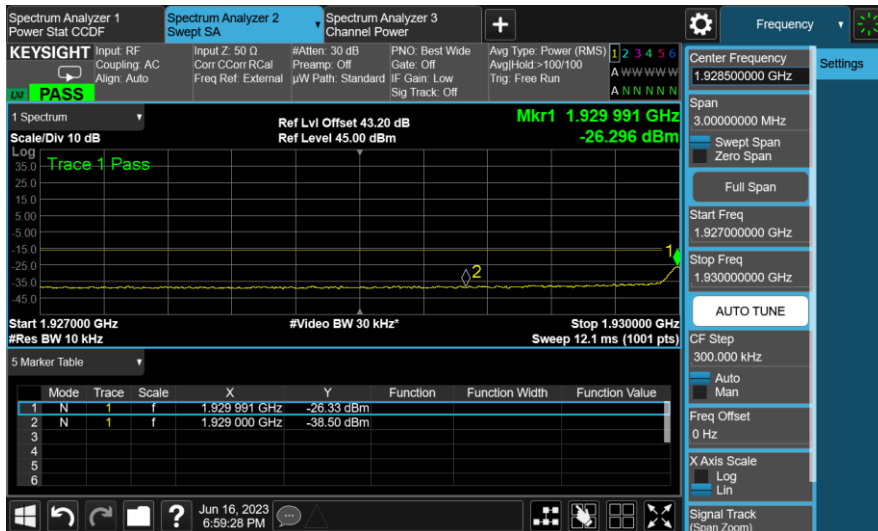
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



DL_GSM_LCH_a single test signal_3dB above AGC

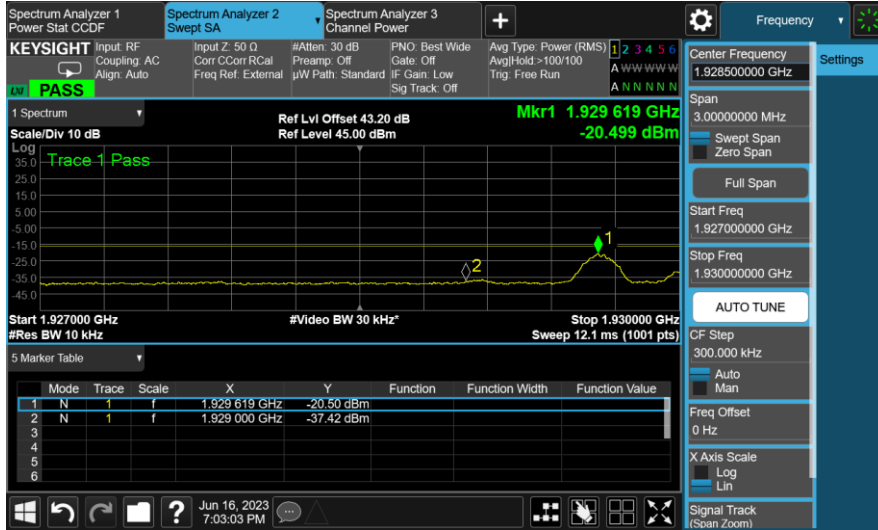


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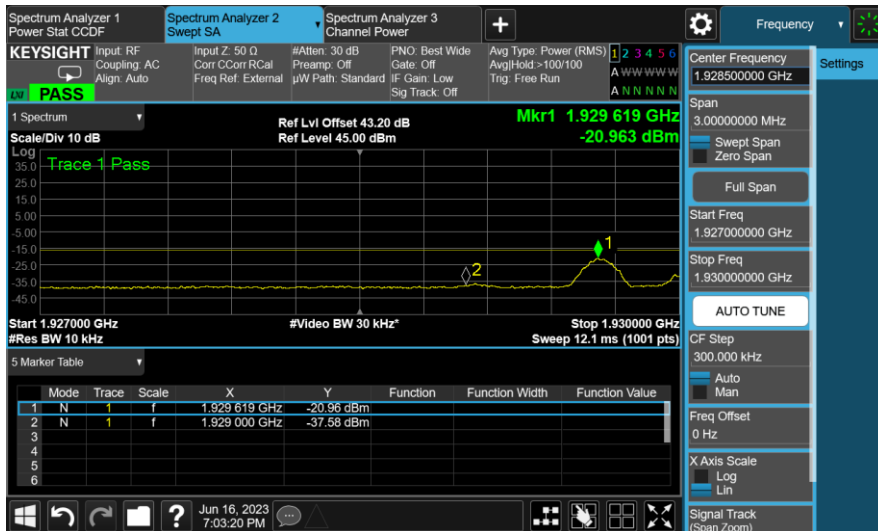
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC



DL_GSM_LCH_two adjacent test signals_3dB above AGC

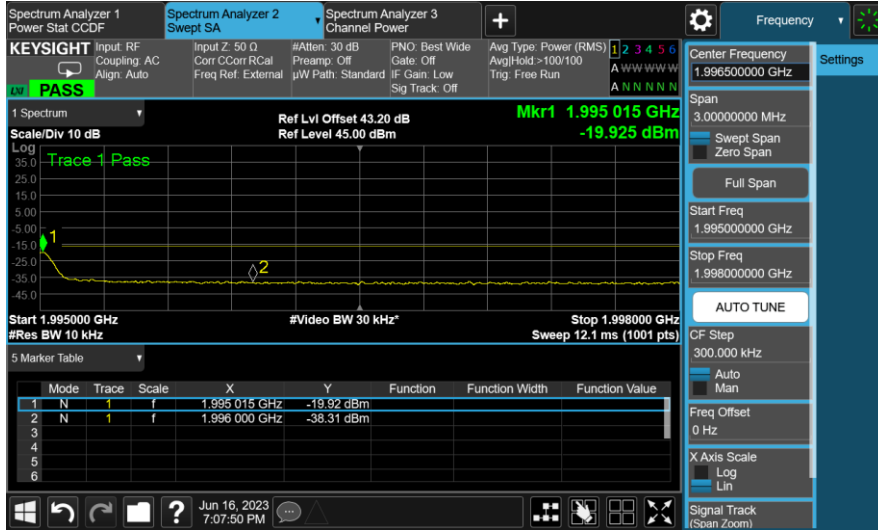


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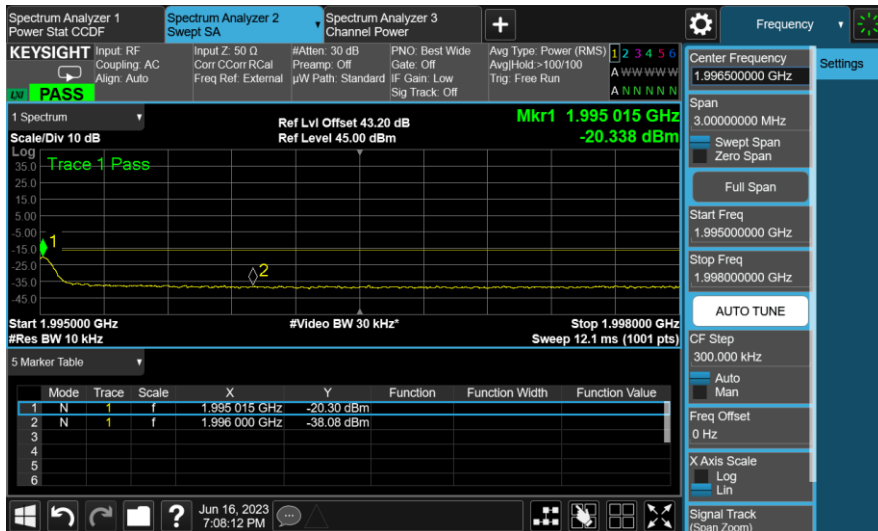
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



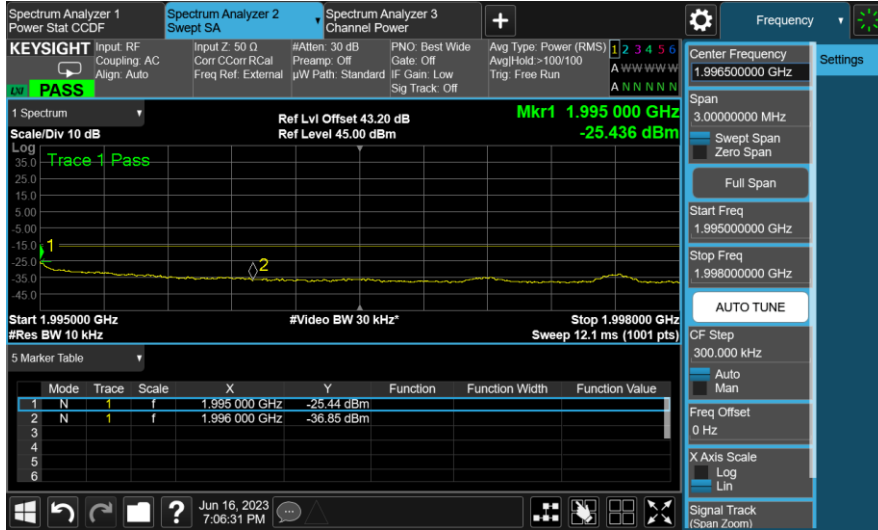
DL_GSM_HCH_a single test signal_3dB above AGC



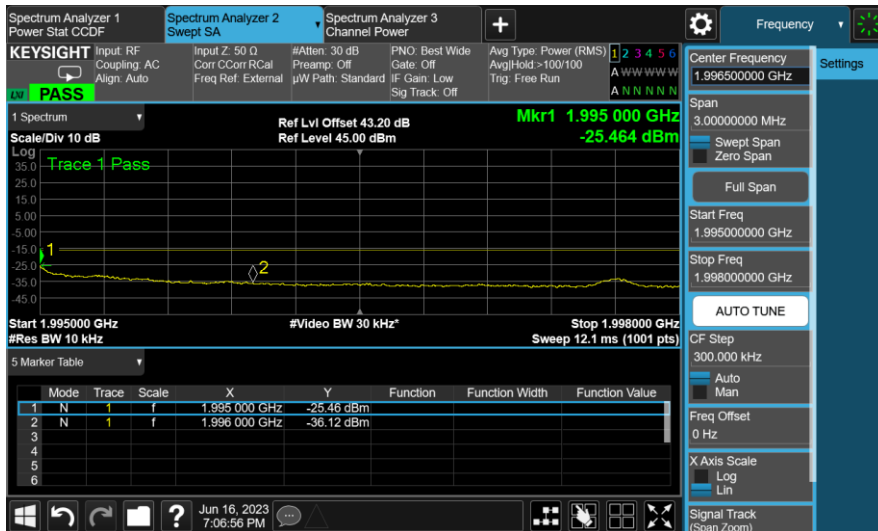
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



DL_GSM_HCH_two adjacent test signals_3dB above AGC



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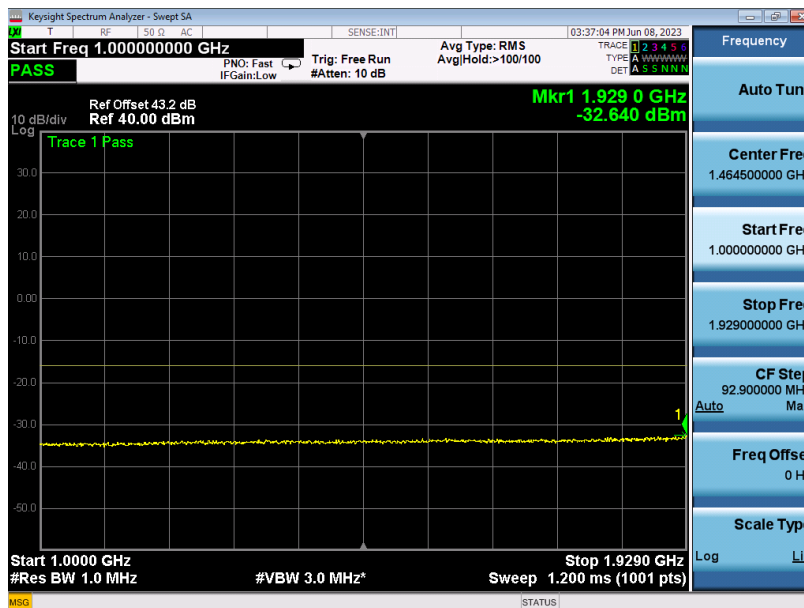
5 Conducted Spurious emissions

Conducted spurious emissions

DL_4.1MHz AWGN_MCH_Pre-AGC



DL_4.1MHz AWGN_MCH_Pre-AGC



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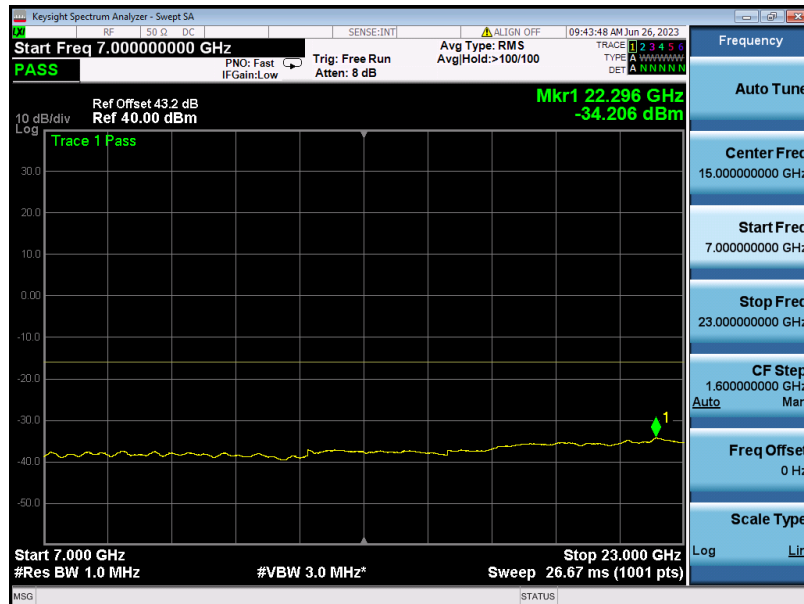
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Conducted spurious emissions

DL_4.1MHz AWGN_MCH_Pre-AGC



DL_4.1MHz AWGN_MCH_Pre-AGC



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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,
 $P = 37\text{dBm} = 5.02\text{W}$,
the limit = $37\text{dBm} - [43 + 10\log_{10}(5.02\text{W})]$ dB = -13dBm
2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All modes (Low Channel/MCH/High Channel, with GSM signal/ with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.



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6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Freq. (MHz)	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	1962.5	4.1MHz AWGN	TN	VL	21	0.0107	PASS
			TN	VH	18	0.0092	PASS
		100MHz AWGN	TN	VL	28	0.0143	PASS
			TN	VH	26	0.0132	PASS
		GSM	TN	VL	13	0.0066	PASS
			TN	VH	17	0.0087	PASS



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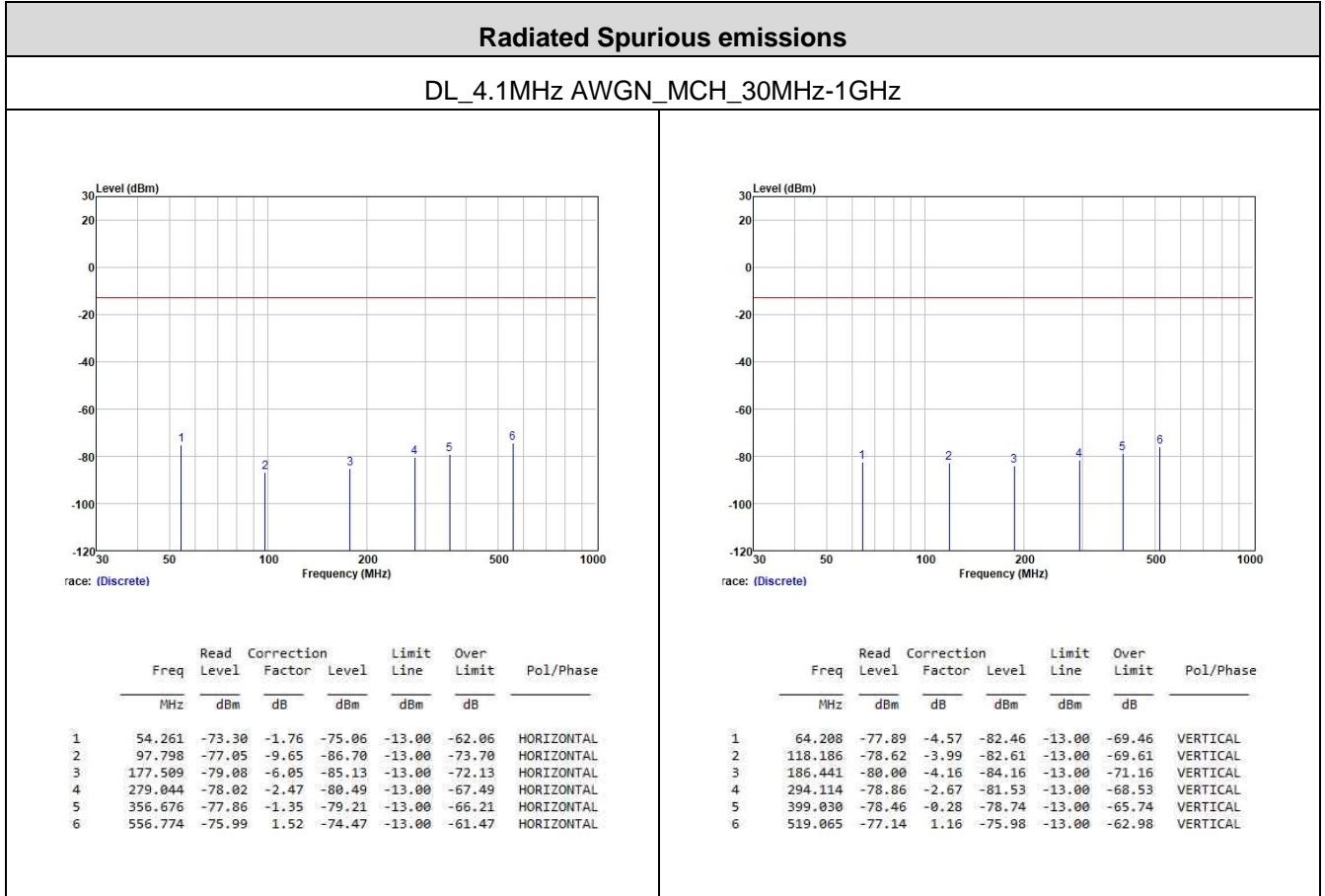
Frequency stability vs temperature							
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	1962.5	4.1MHz AWGN	VN	+50	18	0.0092	PASS
			VN	+40	23	0.0117	PASS
			VN	+30	15	0.0076	PASS
			VN	+20	19	0.0097	PASS
			VN	+10	21	0.0107	PASS
			VN	0	27	0.0138	PASS
			VN	-10	20	0.0102	PASS
			VN	-20	11	0.0056	PASS
			VN	-30	17	0.0087	PASS
	1962.5	100MHz AWGN	VN	+50	24	0.0122	PASS
			VN	+40	20	0.0102	PASS
			VN	+30	28	0.0143	PASS
			VN	+20	18	0.0092	PASS
			VN	+10	12	0.0061	PASS
			VN	0	26	0.0132	PASS
			VN	-10	21	0.0107	PASS
			VN	-20	14	0.0071	PASS
			VN	-30	19	0.0097	PASS
	1962.5	GSM	VN	+50	24	0.0122	PASS
			VN	+40	19	0.0097	PASS
			VN	+30	21	0.0107	PASS
			VN	+20	15	0.0076	PASS
			VN	+10	13	0.0066	PASS
			VN	0	19	0.0097	PASS
			VN	-10	23	0.0117	PASS
			VN	-20	17	0.0087	PASS
			VN	-30	13	0.0066	PASS



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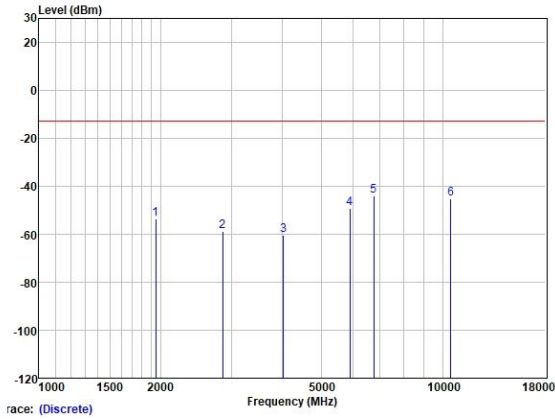
7 Radiated Spurious emissions



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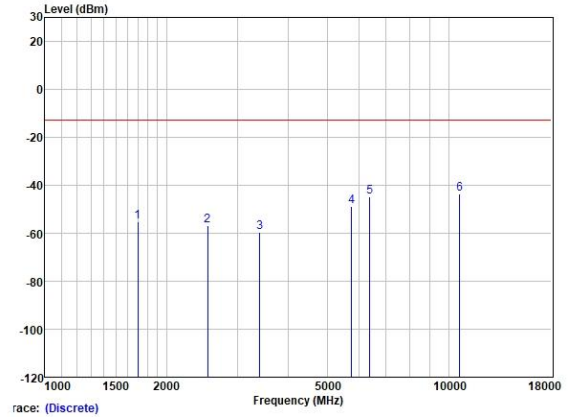
Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Trace: (Discrete)

	Read Freq	Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1949.701	-61.87	8.15	-53.72	-13.00	-40.72	HORIZONTAL
2	2855.380	-62.86	3.95	-58.91	-13.00	-45.91	HORIZONTAL
3	4039.212	-63.25	2.90	-60.35	-13.00	-47.35	HORIZONTAL
4	5898.442	-64.83	15.65	-49.18	-13.00	-36.18	HORIZONTAL
5	6756.708	-64.18	20.38	-43.80	-13.00	-30.80	HORIZONTAL
6	10484.230	-68.91	23.52	-45.39	-13.00	-32.39	HORIZONTAL

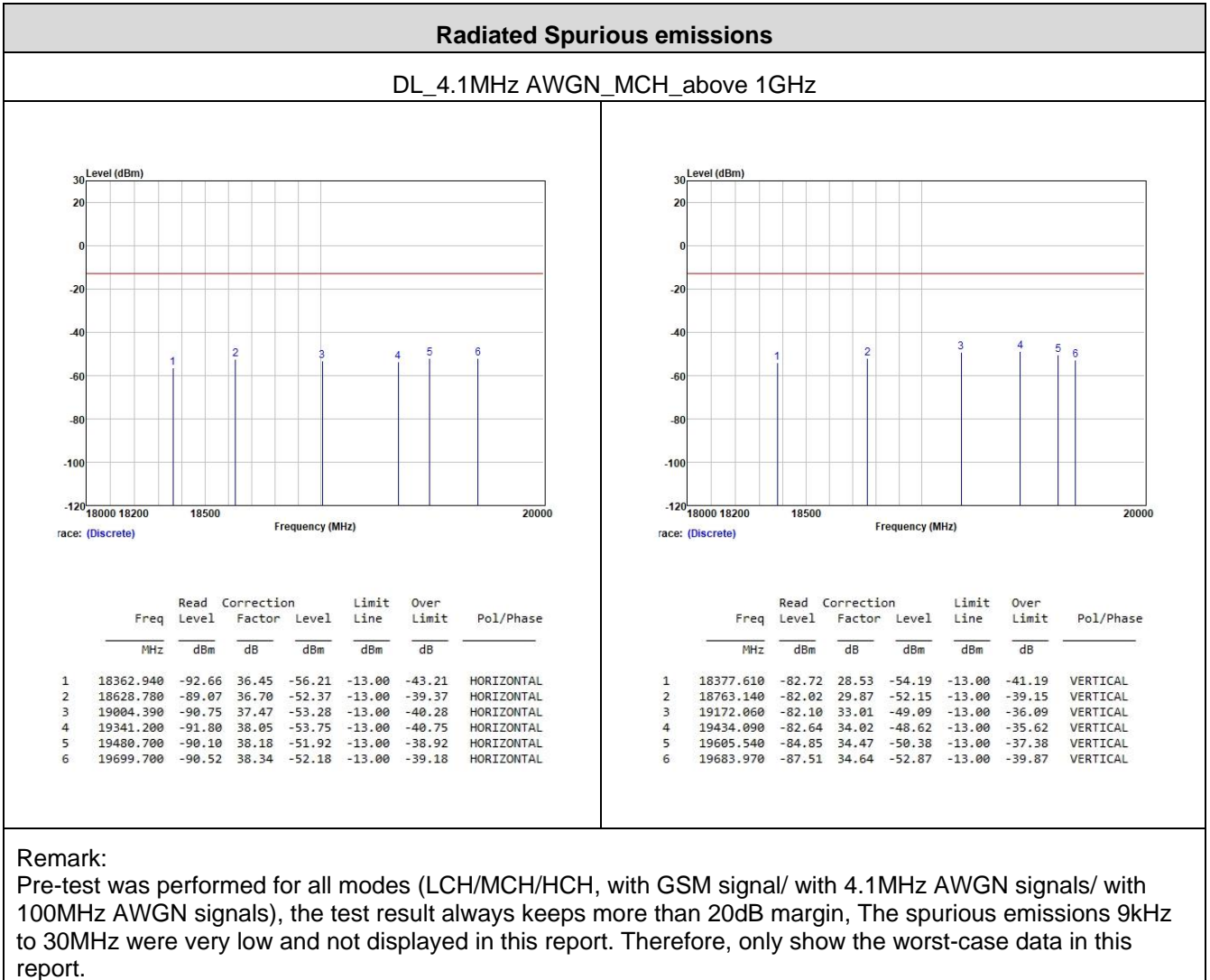


Trace: (Discrete)

	Read Freq	Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1697.129	-60.84	5.62	-55.22	-13.00	-42.22	VERTICAL
2	2528.963	-63.81	6.85	-56.96	-13.00	-43.96	VERTICAL
3	3405.929	-62.67	3.17	-59.50	-13.00	-46.50	VERTICAL
4	5746.982	-63.23	14.57	-48.66	-13.00	-35.66	VERTICAL
5	6377.195	-64.15	19.38	-44.77	-13.00	-31.77	VERTICAL
6	10636.850	-68.52	24.78	-43.74	-13.00	-30.74	VERTICAL



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--End of Appendix--



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