



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

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FCC ID: OJFDLRUG225

Appendix

Test Data and Result for report

GZCR220800101302



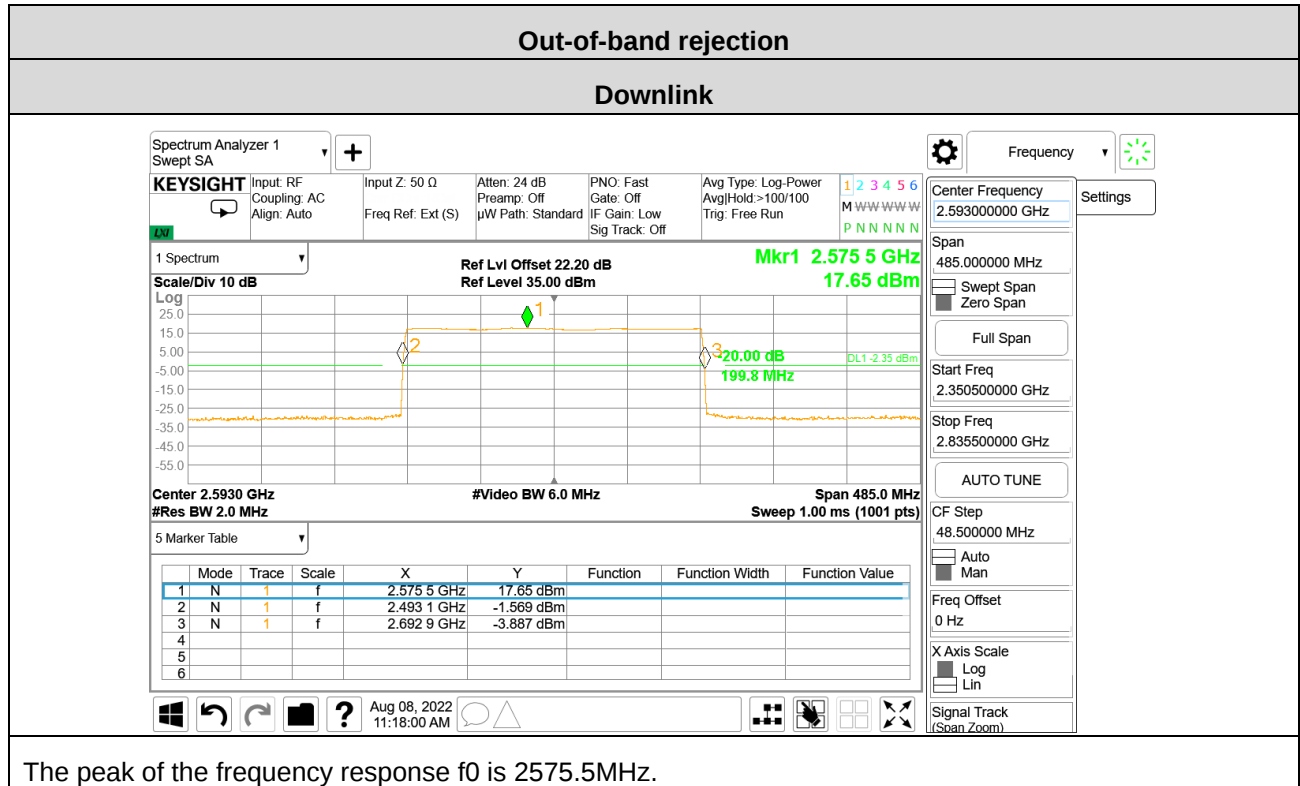
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Guangzhou Branch / Test Site / EEC Laboratory

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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1 Out-of-band rejection



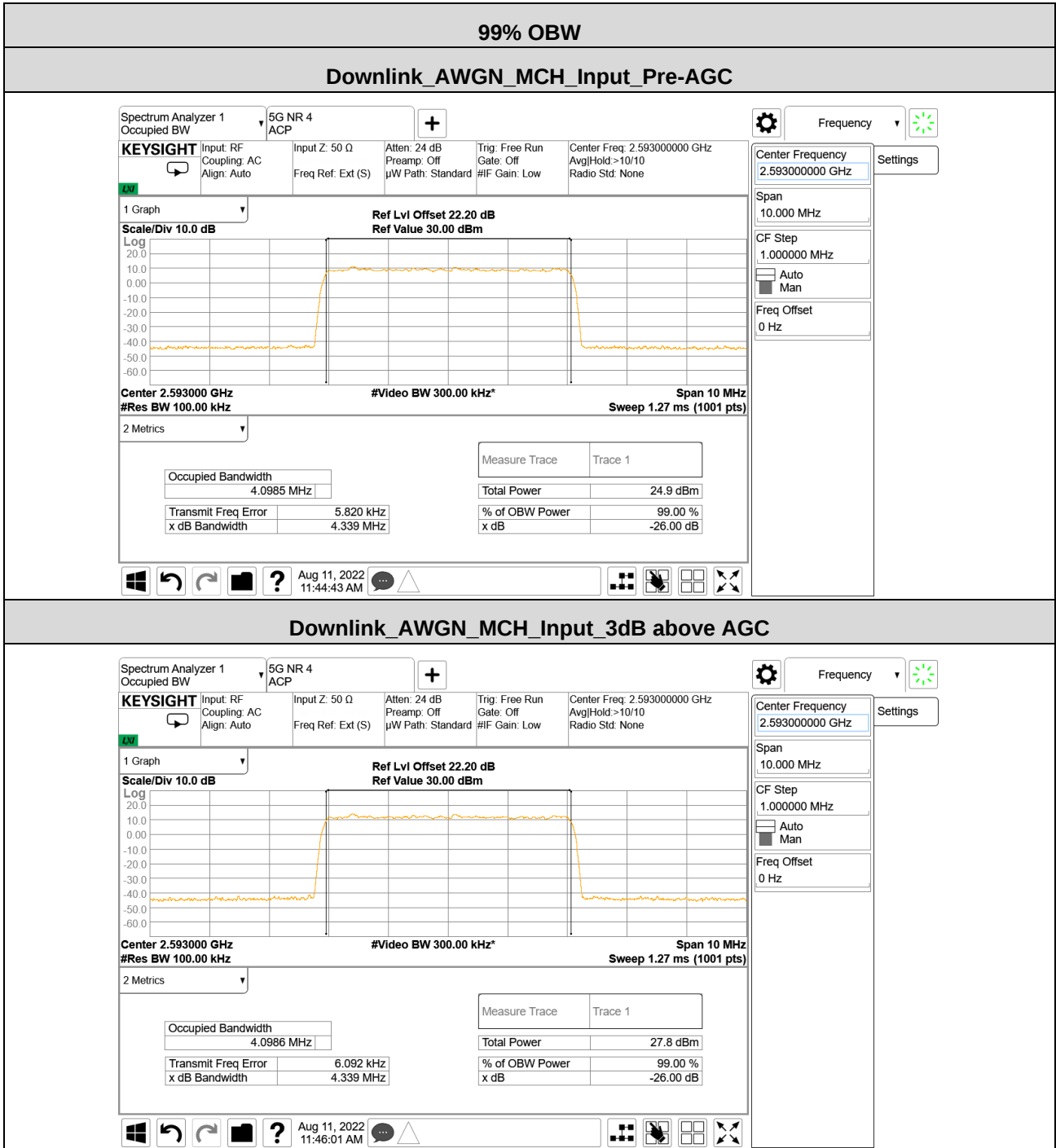
2 Input versus Output comparison

Occupied Bandwidth						
Test Path	Test Signal	Test Channel	Signal Level	99% OBW (MHz)		Verdict
				Input	Output	
Downlink	AWGN	MCH	Pre-AGC	4.0985	4.1018	PASS
			3dB above AGC	4.0986	4.0998	PASS
	GSM	MCH	Pre-AGC	0.24413	0.24613	PASS
			3dB above AGC	0.24363	0.24645	PASS

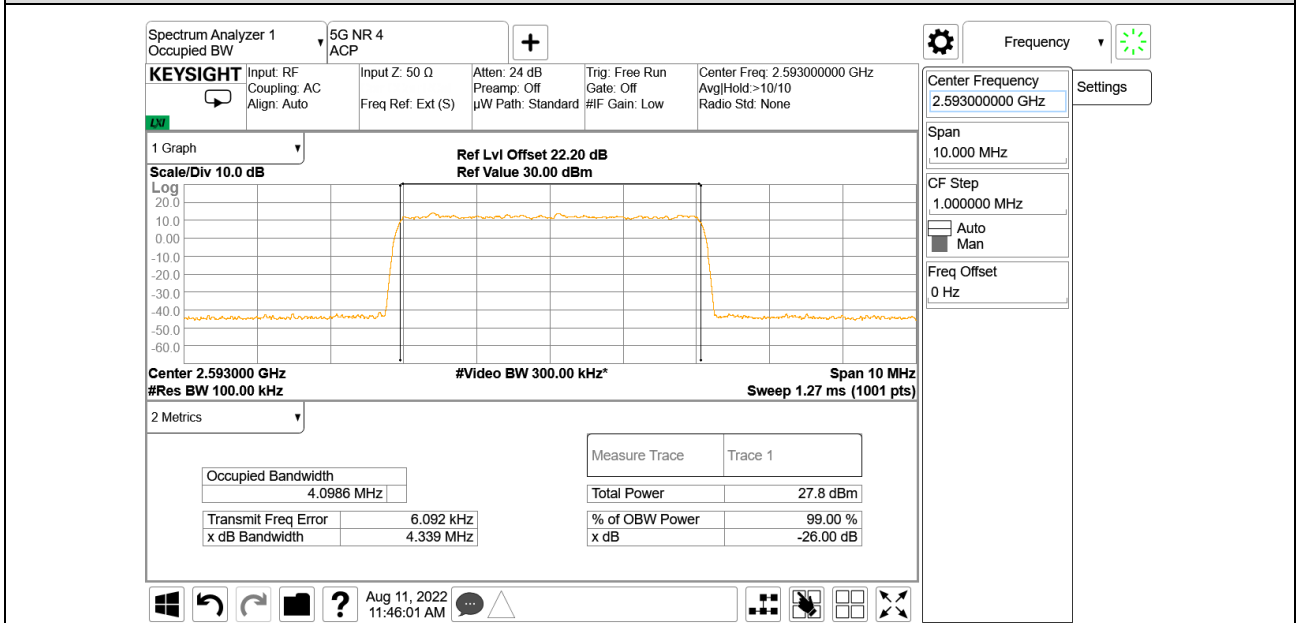


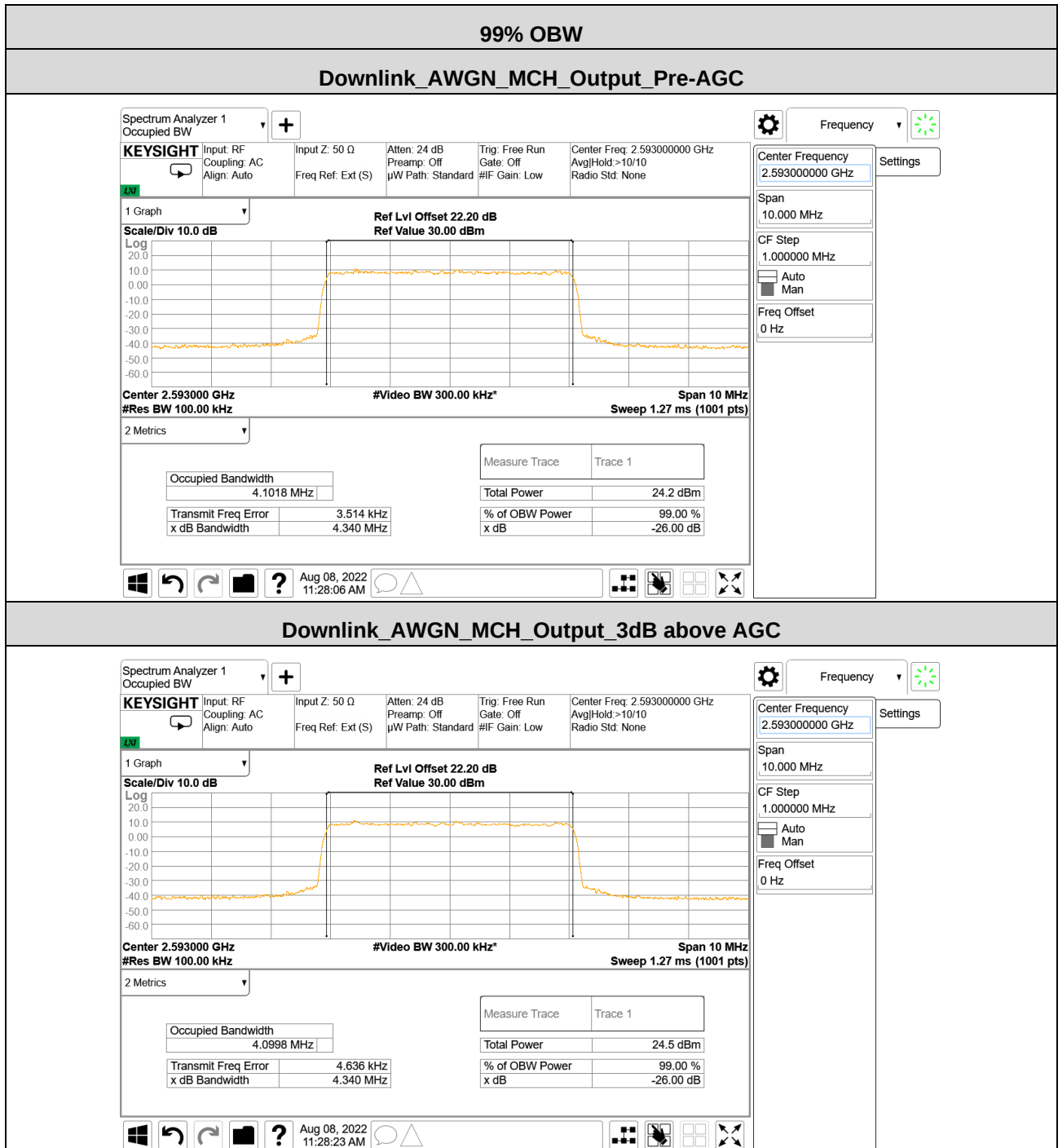
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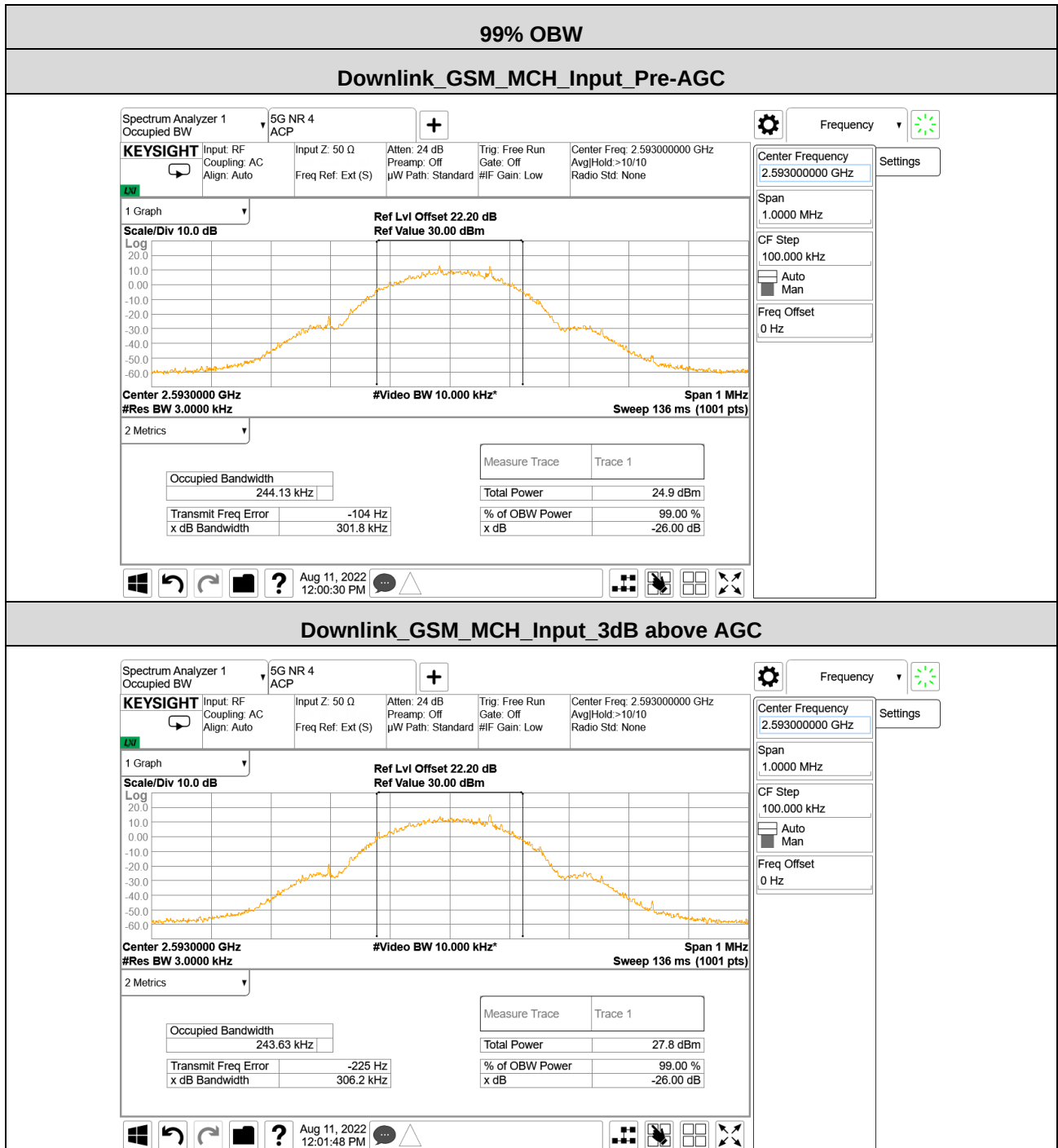
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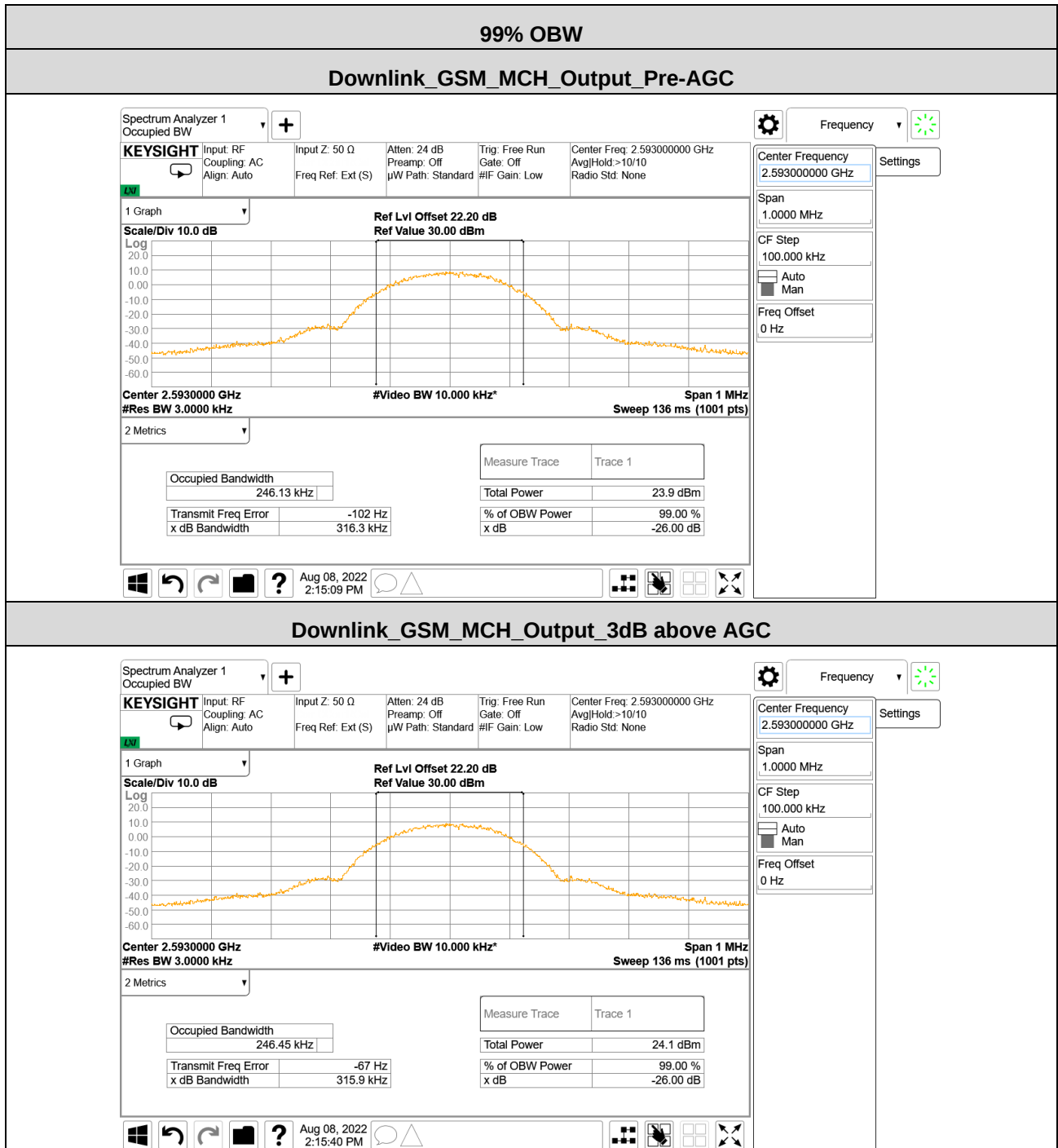


Downlink_AWGN_MCH_Input_3dB above AGC









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)	Gain (dB)	Verdict
Downlink	2575.5	AWGN	Pre-AGC	25.00	24.94	-0.06	PASS
			3dB above AGC	28.00	24.68	/	PASS
		GSM	Pre-AGC	25.00	24.39	-0.61	PASS
			3dB above AGC	28.00	24.50	/	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 5dBi declared by the manufacturer, the directional gain = $G_{ANT} + 10 \log (N_{ANT})$ dBi = 8dBi.
3. The maximum total EIRP for the EUT is $(24.94\text{dBm} + 24.94\text{dBm}) + 8\text{dBi} = 35.96\text{dBm} = 3.95\text{W}$, which doesn't exceed the required EIRP limit.



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

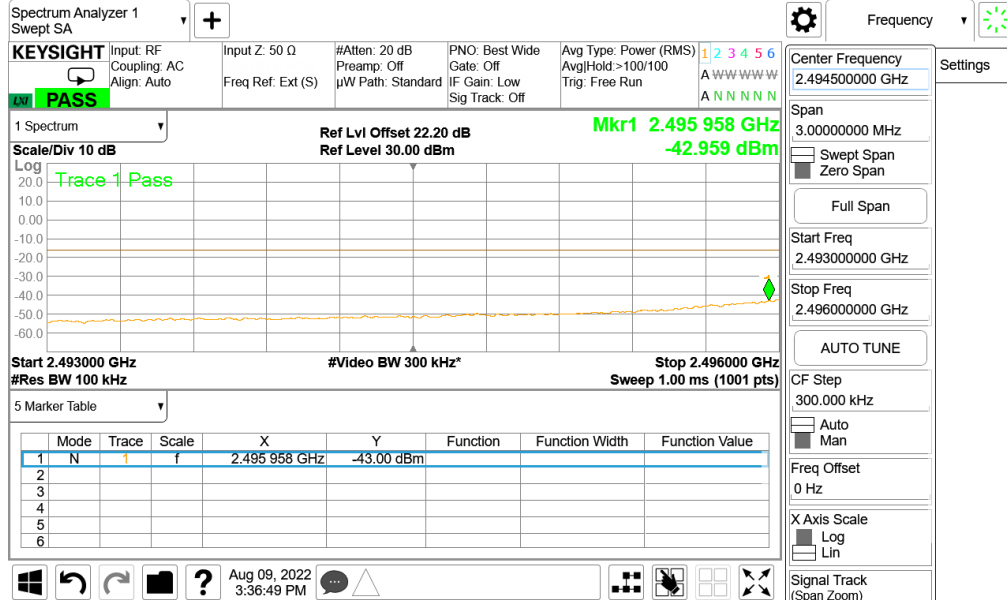
Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
Downlink	LCH	AWGN	a single test signal	Pre-AGC	-43.00	≤-16	PASS
				3dB above AGC	-42.51		PASS
			two adjacent test signals	Pre-AGC	-45.19		PASS
				3dB above AGC	-44.75		PASS
	HCH		a single test signal	Pre-AGC	-42.22		PASS
				3dB above AGC	-41.36		PASS
			two adjacent test signals	Pre-AGC	-45.49		PASS
				3dB above AGC	-44.53		PASS
	LCH	GSM	a single test signal	Pre-AGC	-29.07		PASS
				3dB above AGC	-28.57		PASS
			two adjacent test signals	Pre-AGC	-25.43		PASS
				3dB above AGC	-27.40		PASS
	HCH		a single test signal	Pre-AGC	-30.06		PASS
				3dB above AGC	-29.22		PASS
			two adjacent test signals	Pre-AGC	-22.14		PASS
				3dB above AGC	-23.33		PASS

Remark:

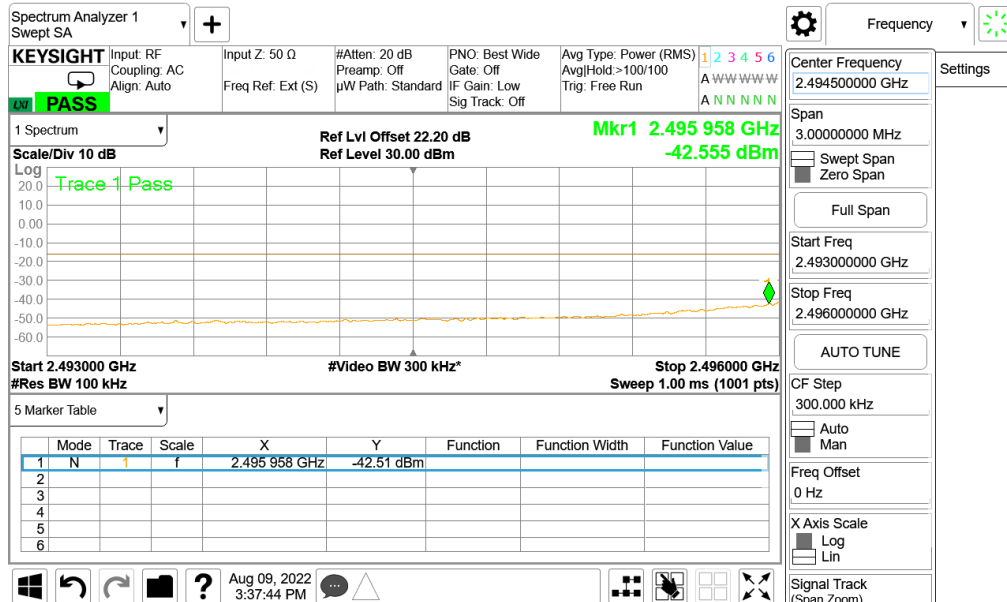
- The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,
 $P = 24\text{dBm} = 0.252\text{W}$, so
the limit = $24\text{dBm} - [43 + 10\log_{10}(0.252\text{W})]$ dB = -13dBm
- For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by $10\lg(2)$, so the limit was calculated to show -16dBm in order to determine the test result conveniently.

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

Downlink_AWGN_LCH_a single test signal_Pre-AGC



Downlink_AWGN_LCH_a single test signal_3dB above AGC

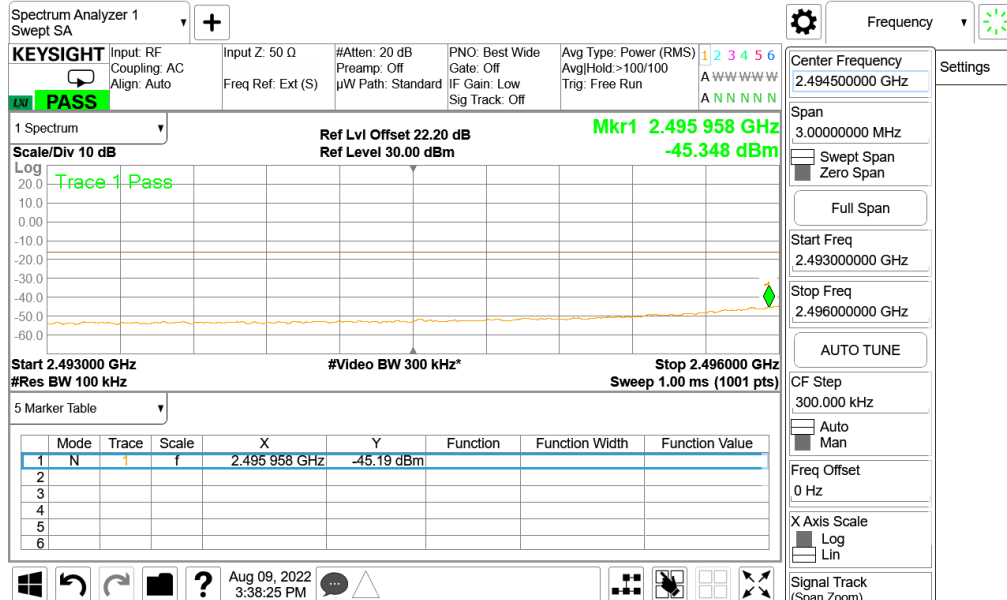


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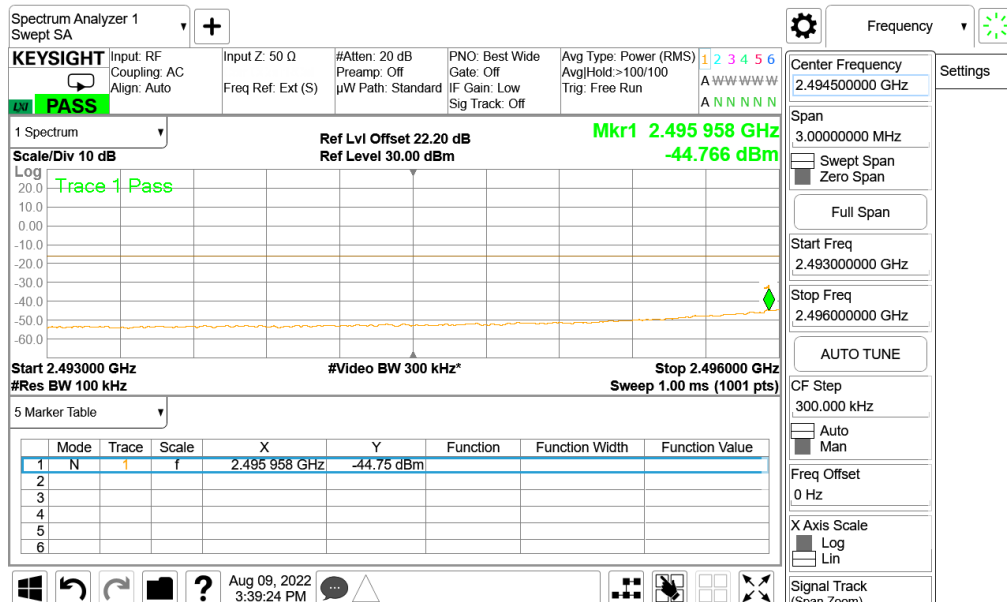
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Out-of-band/out-of-block emissions

Downlink_AWGN_LCH_two adjacent test signals_Pre-AGC

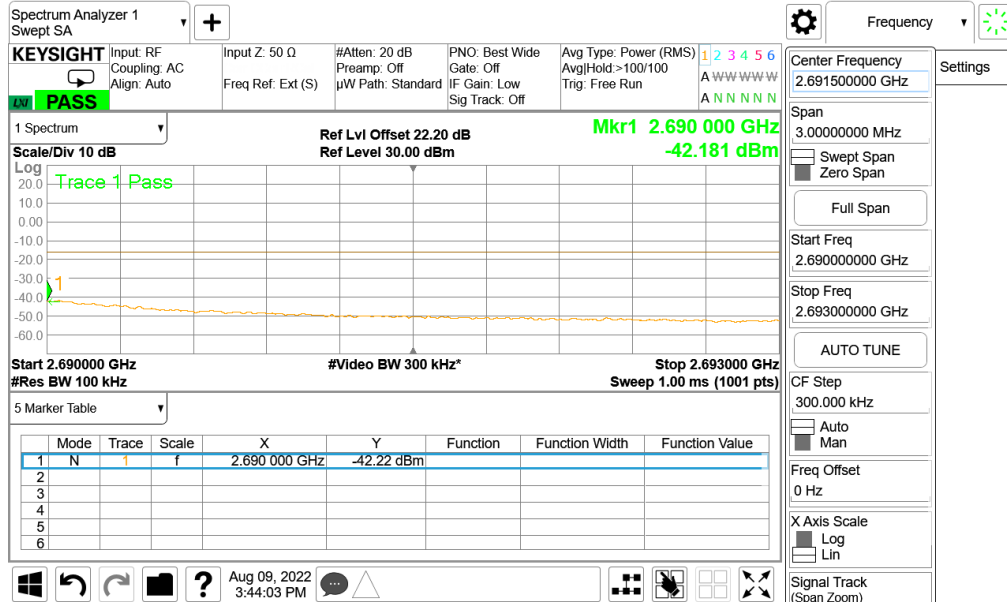


Downlink_AWGN_LCH_two adjacent test signals_3dB above AGC

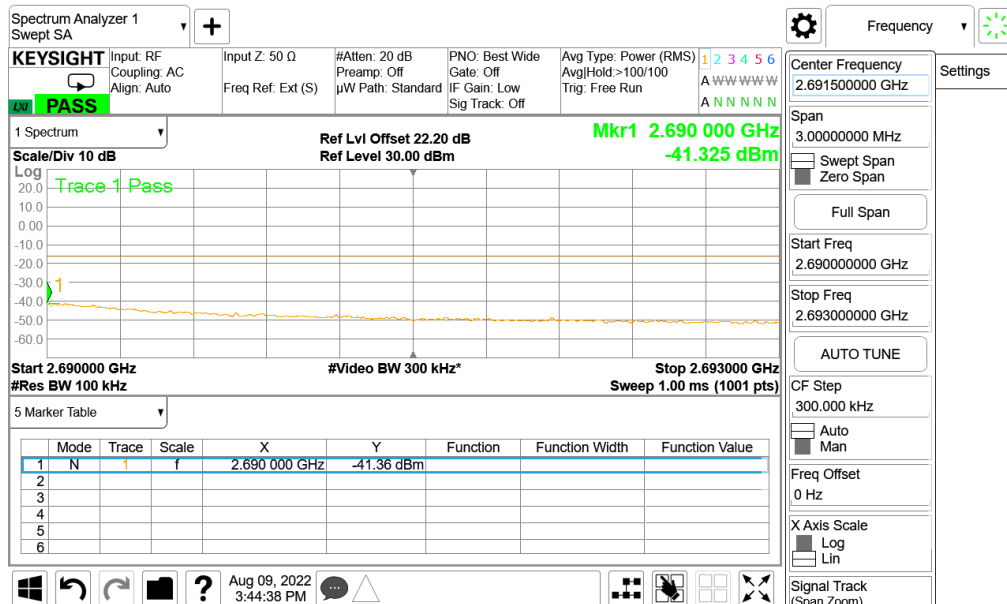


Out-of-band/out-of-block emissions

Downlink_AWGN_HCH_a single test signal_Pre-AGC

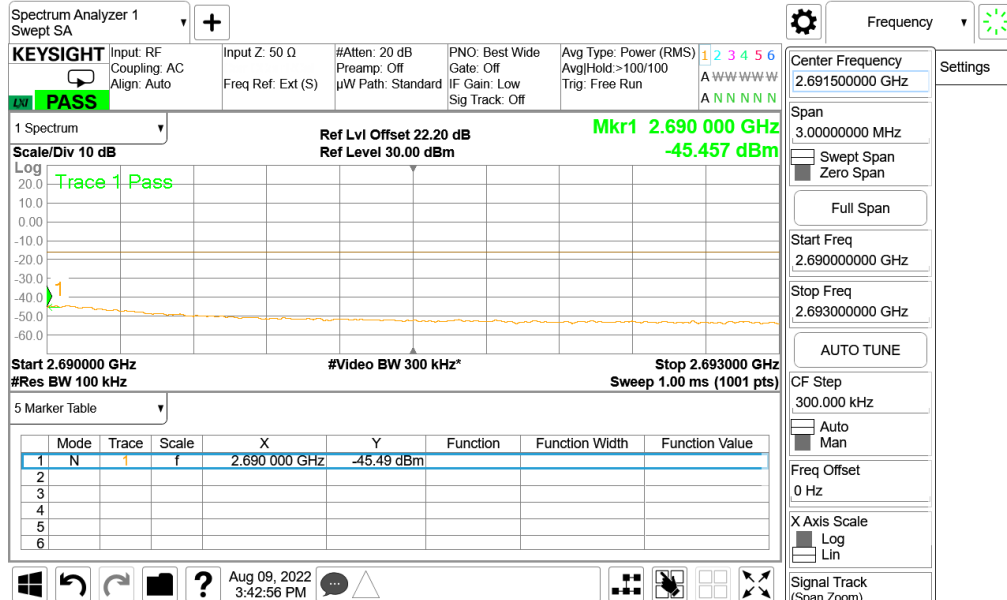


Downlink_AWGN_HCH_a single test signal_3dB above AGC

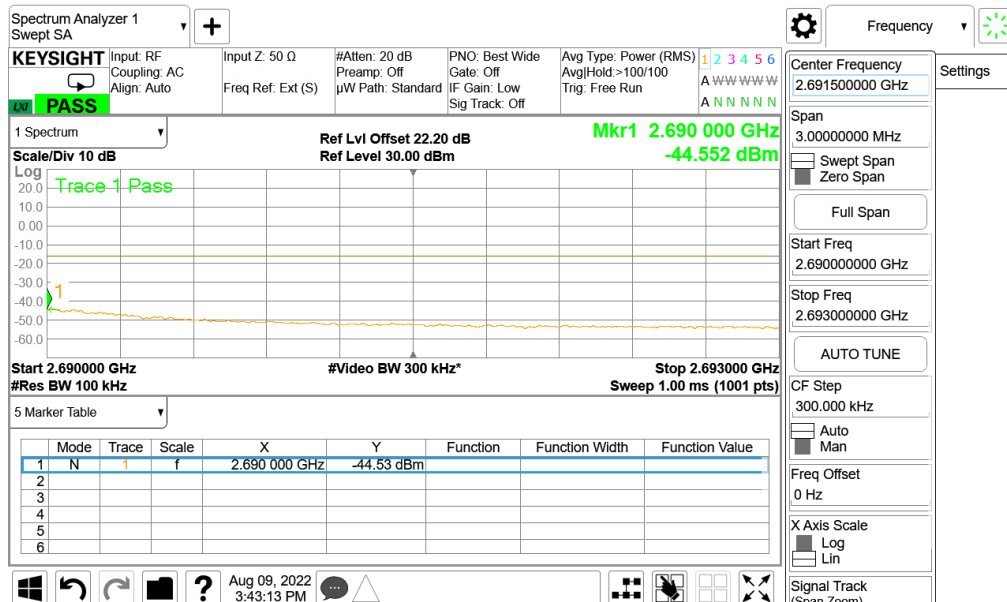


Out-of-band/out-of-block emissions

Downlink_AWGN_HCH_two adjacent test signals_Pre-AGC

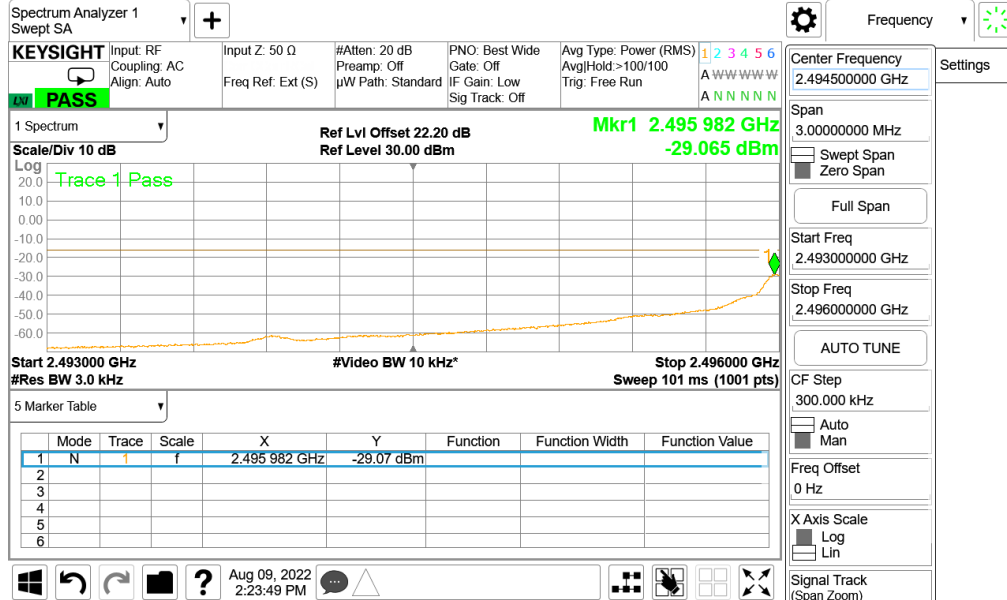


Downlink_AWGN_HCH_two adjacent test signals_3dB above AGC



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

Downlink_GSM_LCH_a single test signal_Pre-AGC



Downlink_GSM_LCH_a single test signal_3dB above AGC



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

Downlink_GSM_LCH_two adjacent test signals_Pre-AGC

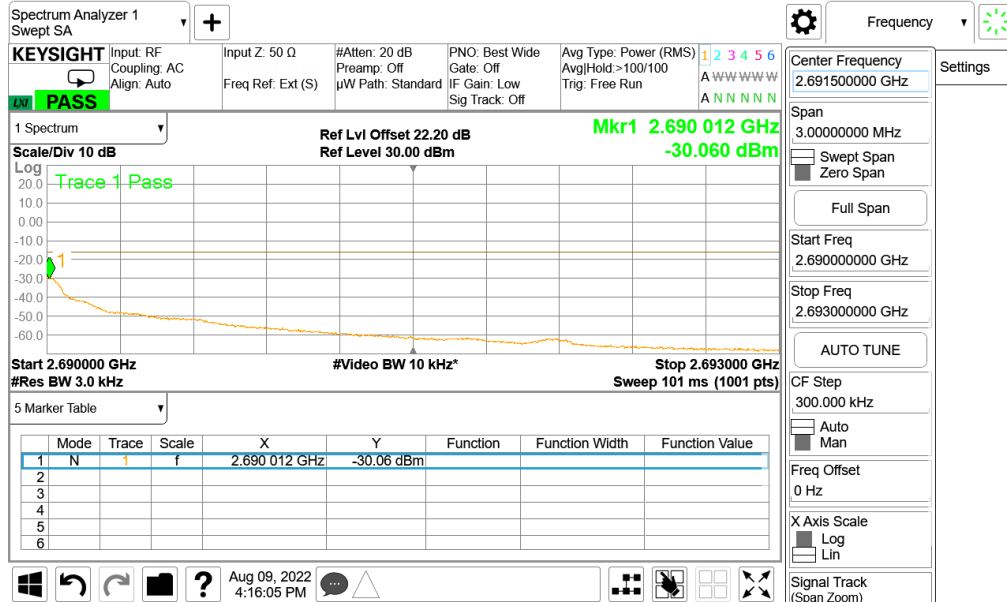


Downlink_GSM_LCH_two adjacent test signals_3dB above AGC

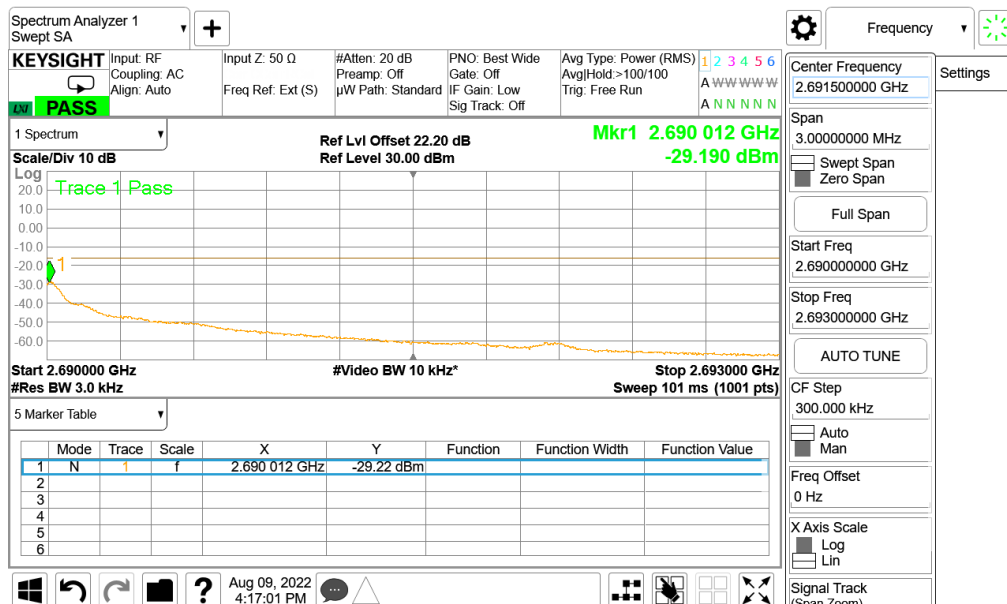


Out-of-band/out-of-block emissions

Downlink_GSM_HCH_a single test signal_Pre-AGC

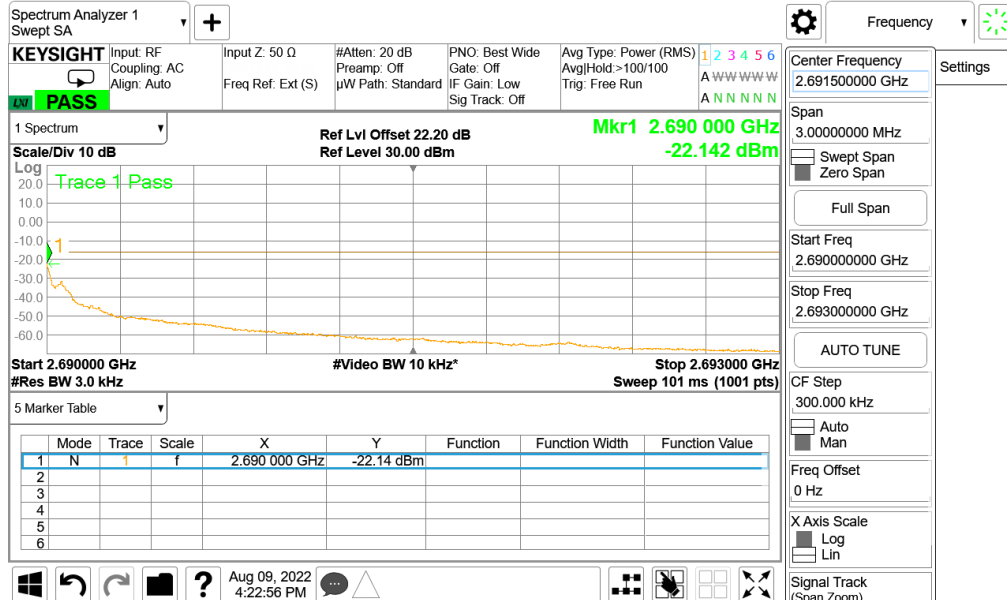


Downlink_GSM_HCH_a single test signal_3dB above AGC

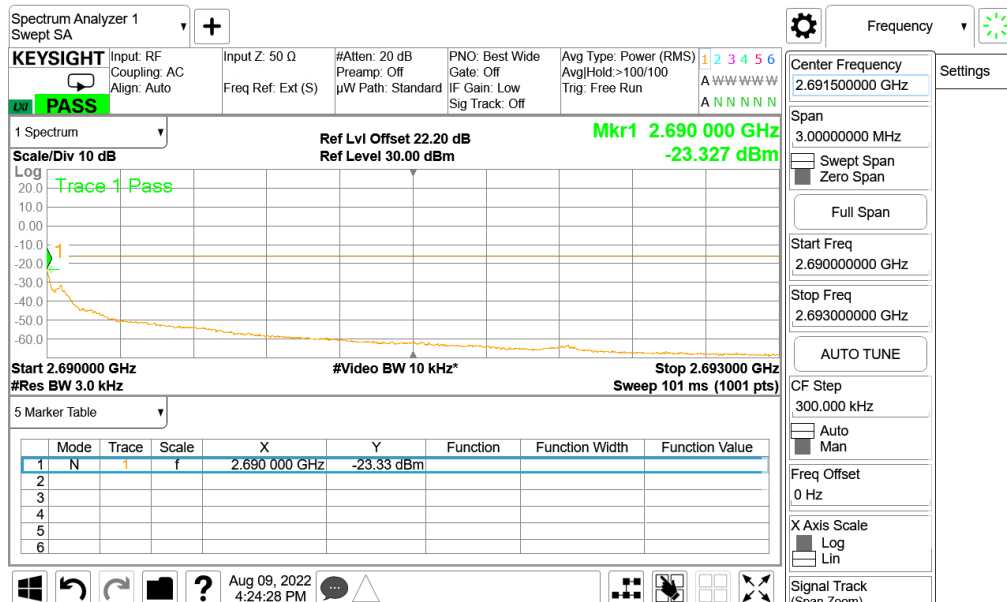


Out-of-band/out-of-block emissions

Downlink_GSM_HCH_two adjacent test signals_Pre-AGC



Downlink_GSM_HCH_two adjacent test signals_3dB above AGC



5 Conducted Spurious emissions

Conducted spurious emissions							
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
Downlink	LCH	AWGN	Pre-AGC	30-1000	-58.43	≤ -16	PASS
				1000-2495	-32.25		PASS
				2691-27000	-42.28		PASS
		GSM	Pre-AGC	30-1000	-58.82		PASS
				1000-2495	-22.87		PASS
				2691-27000	-42.42		PASS
	MCH	AWGN	Pre-AGC	30-1000	-58.03		PASS
				1000-2495	-42.21		PASS
				2691-27000	-42.42		PASS
		GSM	Pre-AGC	30-1000	-58.43		PASS
				1000-2495	-42.93		PASS
				2691-27000	-42.41		PASS
	HCH	AWGN	Pre-AGC	30-1000	-59.37		PASS
				1000-2495	-44.51		PASS
				2691-27000	-30.16		PASS
		GSM	Pre-AGC	30-1000	-58.50		PASS
				1000-2495	-42.72		PASS
				2691-27000	-24.68		PASS

Remark:

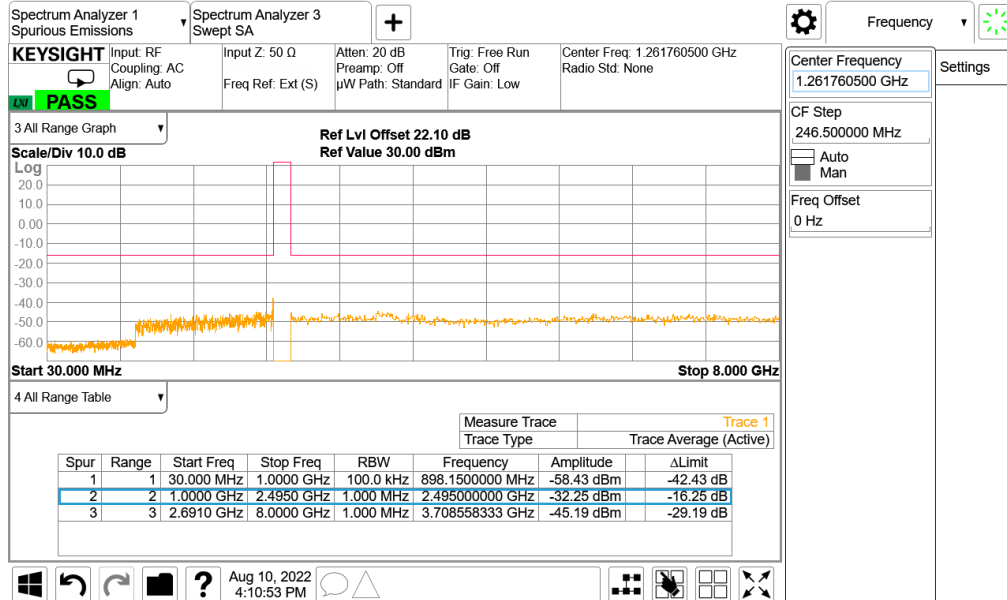
- The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,
 $P = 24\text{dBm} = 0.252\text{W}$, so
the limit = $24\text{dBm} - [43 + 10\log_{10}(0.252\text{W})]$ dB = -13dBm
- For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by $10\lg(2)$, so the limit was calculated to show -16dBm in order to determine the test result conveniently.
- The lowest RF signal generated in the equipment is higher than 30M, Therefore the test performed from 30MHz as start frequency.



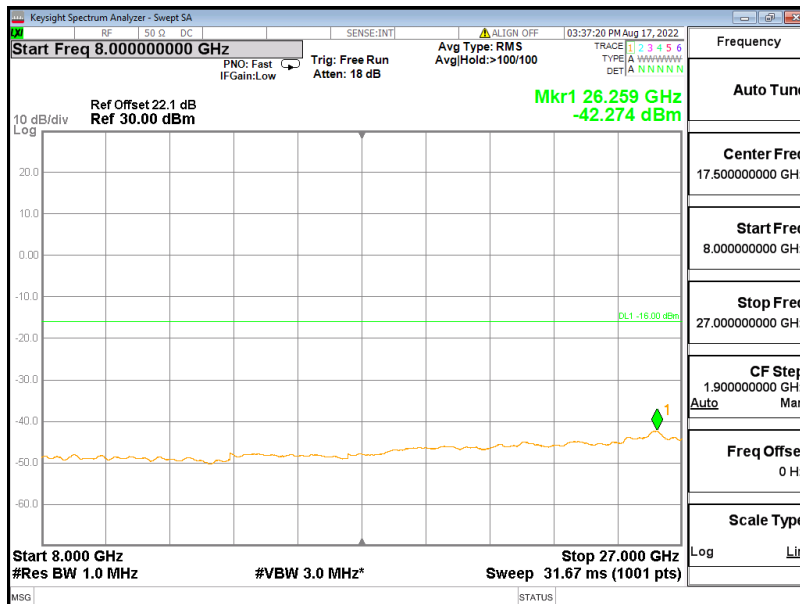
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Conducted spurious emissions

Downlink_AWGN_LCH



Downlink_AWGN_LCH

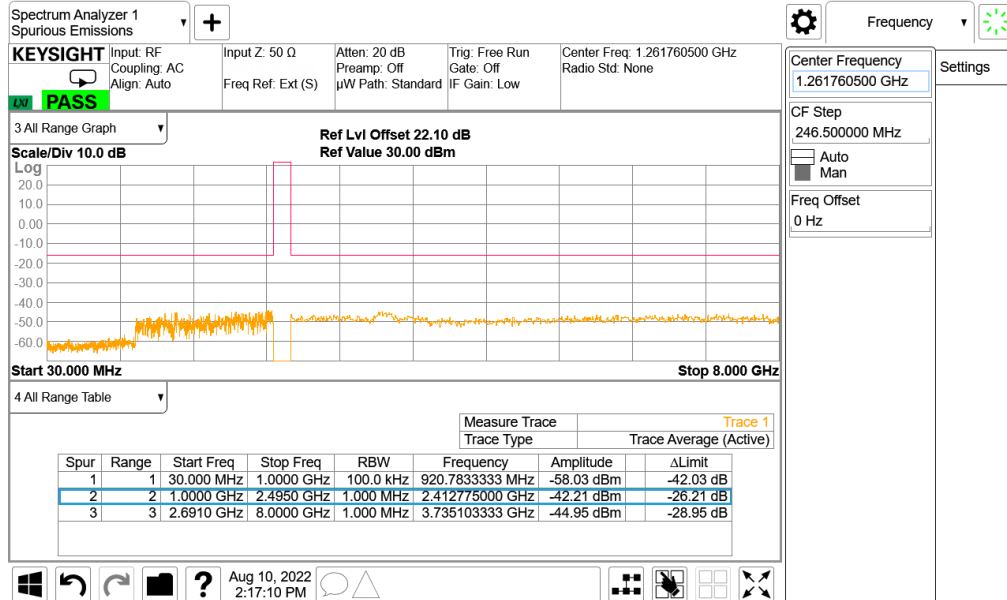


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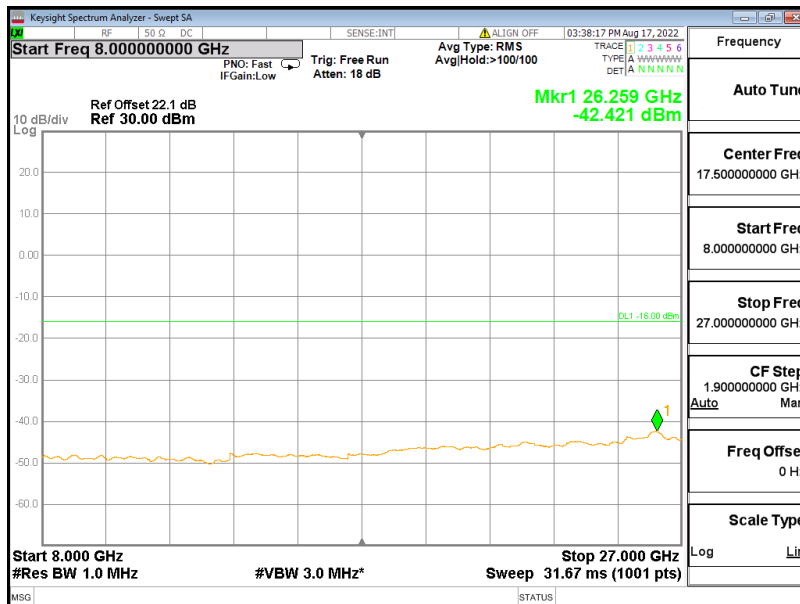
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Conducted spurious emissions

Downlink_AWGN_MCH



Downlink_AWGN_MCH

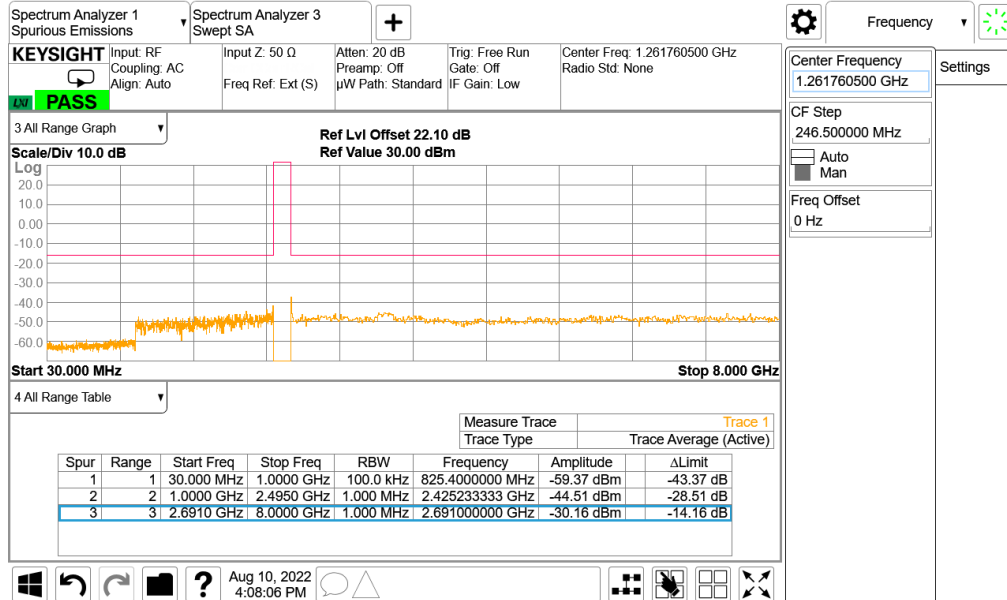


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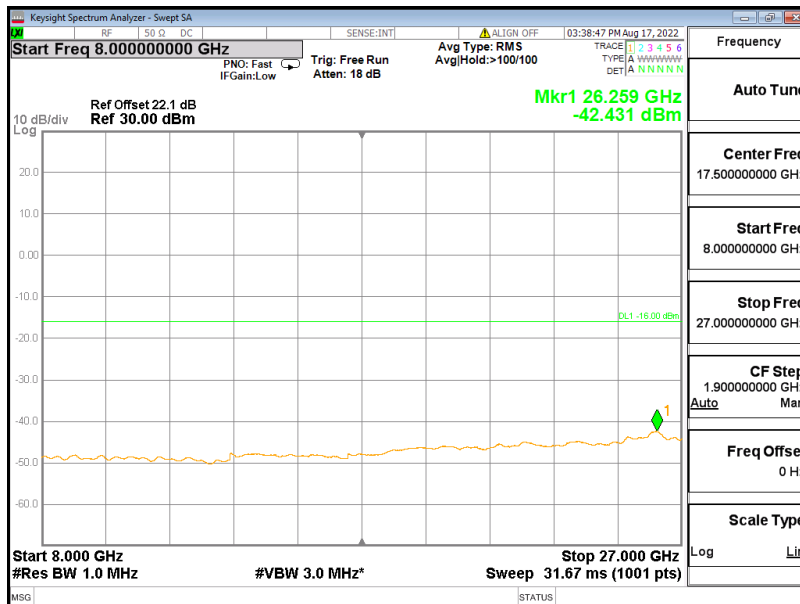
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Conducted spurious emissions

Downlink_AWGN_HCH

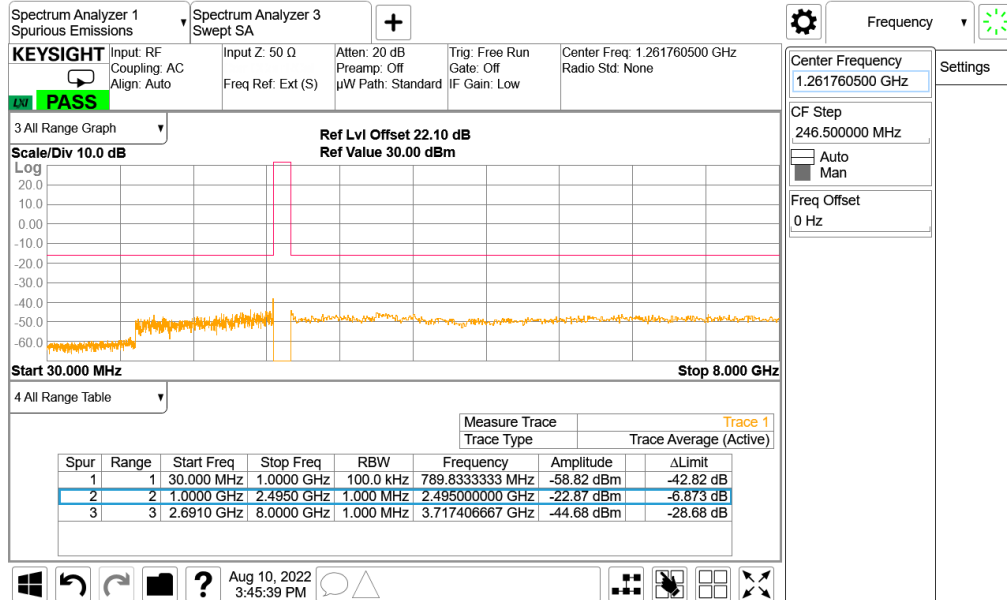


Downlink_AWGN_HCH

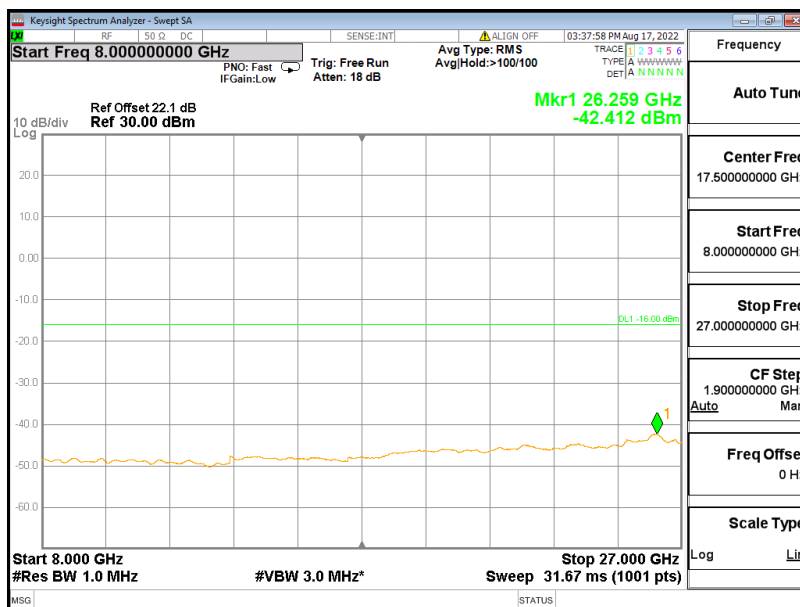


Conducted spurious emissions

Downlink_GSM_LCH

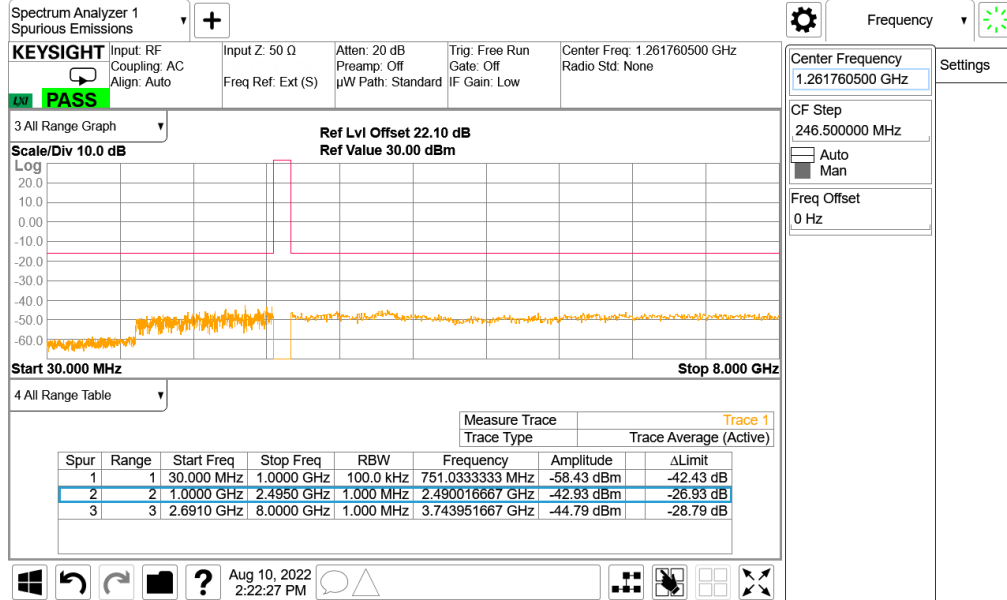


Downlink_GSM_LCH

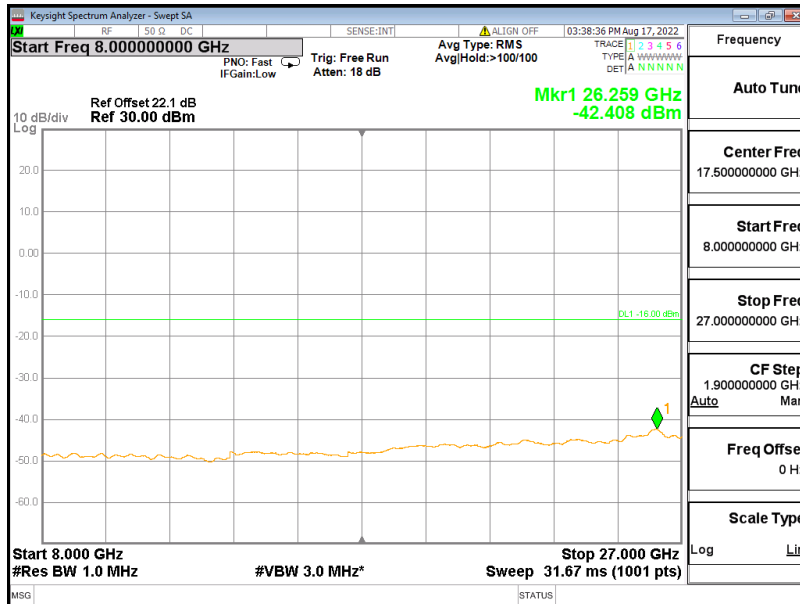


Conducted spurious emissions

Downlink_GSM_MCH

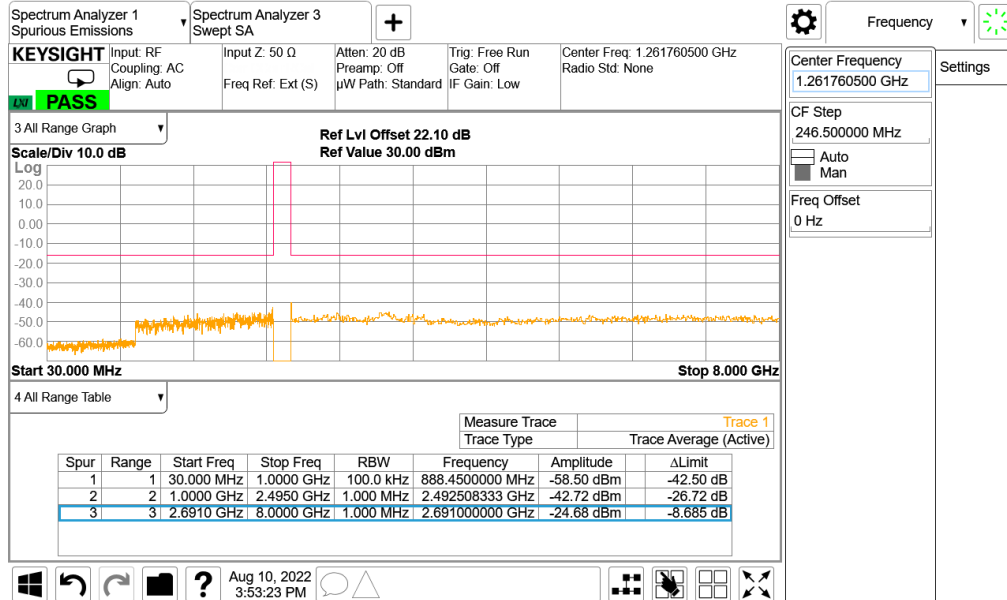


Downlink_GSM_MCH

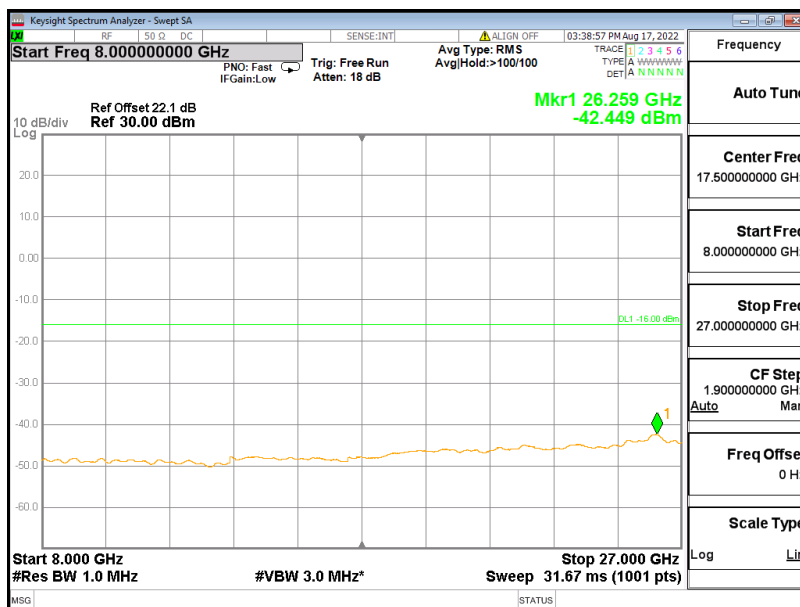


Conducted spurious emissions

Downlink_GSM_HCH



Downlink_GSM_HCH



6 Frequency Stability

Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Temperature (°C)	Voltage (V DC)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	AWGN	MCH	+50	48	34	0.013	PASS
			+40	48	25	0.010	PASS
			+30	48	36	0.014	PASS
			+20	48	42	0.016	PASS
			+10	48	15	0.006	PASS
			0	48	20	0.008	PASS
			-10	48	26	0.010	PASS
			-20	48	14	0.005	PASS
			-30	48	18	0.007	PASS
	GSM	MCH	+50	48	33	0.013	PASS
			+40	48	26	0.010	PASS
			+30	48	45	0.017	PASS
			+20	48	53	0.020	PASS
			+10	48	39	0.015	PASS
			0	48	42	0.016	PASS
			-10	48	16	0.006	PASS
			-20	48	28	0.011	PASS
			-30	48	36	0.014	PASS



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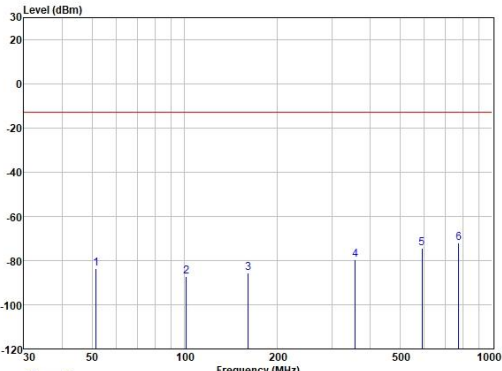
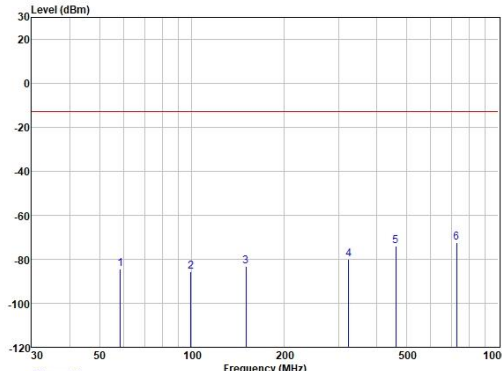
Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Voltage (V DC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	MCH	AWGN	40.8	20	27	0.010	PASS
			48	20	20	0.008	PASS
			55.2	20	35	0.013	PASS
	MCH	GSM	40.8	20	29	0.011	PASS
			48	20	38	0.015	PASS
			55.2	20	43	0.017	PASS



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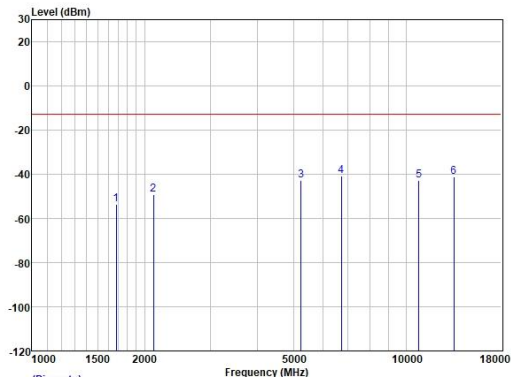
7 Radiated Spurious emissions

Radiated Spurious emissions					
MCH_30MHz-1GHz_Horizontal			MCH_30MHz-1GHz_Vertical		
					
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
51.481	-83.7	-13	-70.7	Horizontal	PASS
101.289	-87.17	-13	-74.17	Horizontal	PASS
160.909	-85.52	-13	-72.52	Horizontal	PASS
357.929	-79.66	-13	-66.66	Horizontal	PASS
590.974	-74.3	-13	-61.3	Horizontal	PASS
776.878	-71.88	-13	-58.88	Horizontal	PASS

Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
58.407	-84.38	-13	-71.38	Vertical	PASS
99.18	-85.52	-13	-72.52	Vertical	PASS
150.011	-83.24	-13	-70.24	Vertical	PASS
324.456	-80.1	-13	-67.1	Vertical	PASS
462.346	-73.94	-13	-60.94	Vertical	PASS
729.358	-72.24	-13	-59.24	Vertical	PASS

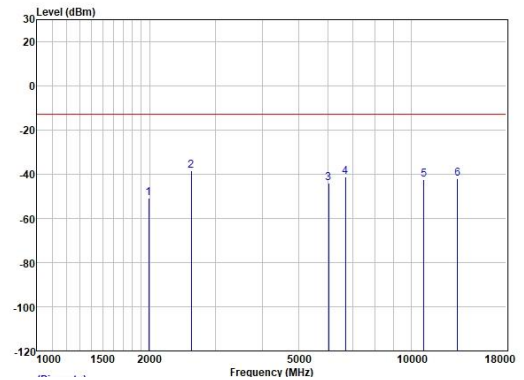
Radiated Spurious emissions

MCH_1GHz-18GHz_Horizontal



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
1682.477	-53.61	-13	-40.61	Horizontal	PASS
2114.052	-49.33	-13	-36.33	Horizontal	PASS
5239.274	-42.95	-13	-29.95	Horizontal	PASS
6717.762	-40.91	-13	-27.91	Horizontal	PASS
10822.92	-42.63	-13	-29.63	Horizontal	PASS
13442.81	-41.25	-13	-28.25	Horizontal	PASS

MCH_1GHz-18GHz_Vertical



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
1989.55	-50.96	-13	-37.96	Vertical	PASS
2588.122	-38.21	-13	-25.21	Vertical	PASS
6018.999	-43.9	-13	-30.9	Vertical	PASS
6679.04	-41.13	-13	-28.13	Vertical	PASS
10822.92	-42.35	-13	-29.35	Vertical	PASS
13326.75	-42	-13	-29	Vertical	PASS

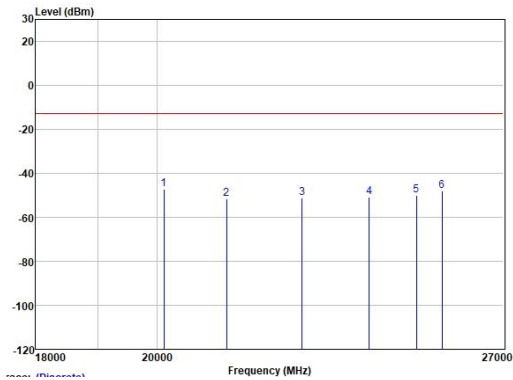


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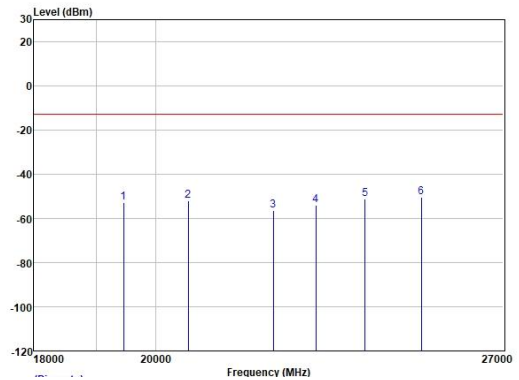
Radiated Spurious emissions

MCH_18GHz-27GHz_Horizontal



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
20112.96	-47.19	-13	-34.19	Horizontal	PASS
21235.26	-51.47	-13	-38.47	Horizontal	PASS
22672.22	-51.33	-13	-38.33	Horizontal	PASS
24033.09	-50.74	-13	-37.74	Horizontal	PASS
25032.01	-50.04	-13	-37.04	Horizontal	PASS
25597.99	-48.14	-13	-35.14	Horizontal	PASS

MCH_18GHz-27GHz_Vertical



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
19449.61	-52.78	-13	-39.78	Vertical	PASS
20567.71	-52.18	-13	-39.18	Vertical	PASS
22135.56	-56.52	-13	-43.52	Vertical	PASS
22963.74	-53.91	-13	-40.91	Vertical	PASS
23956.45	-51.12	-13	-38.12	Vertical	PASS
25152.23	-50.57	-13	-37.57	Vertical	PASS

--End of Appendix--