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Appendix -

Test Data and Result for report GZCR220800107402

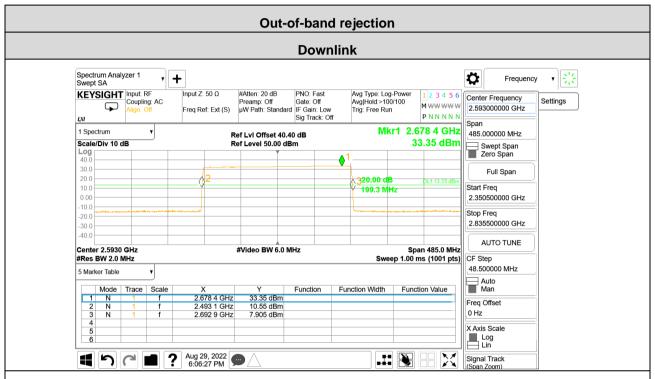




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1 Out-of-band rejection



The peak of the frequency response f0 is 2678.4MHz.

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.



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2 Input versus Output comparison

Occupied Bandwidth									
			.	99% OB					
Test Path	Test Signal	Test Channel	Signal Level	Input	Output	Verdict			
	5MHz AWGN	МСН	Pre-AGC	4.1067	4.1082	PASS			
			3dB above AGC	4.1068	4.1078	PASS			
	100MHz AWGN	MCH	Pre-AGC		98.244	PASS			
Downlink			3dB above AGC	98.272	98.281	PASS			
			Pre-AGC	0.24534	0.24628	PASS			
	GSM	MCH	3dB above AGC	0.24569	0.24651	PASS			



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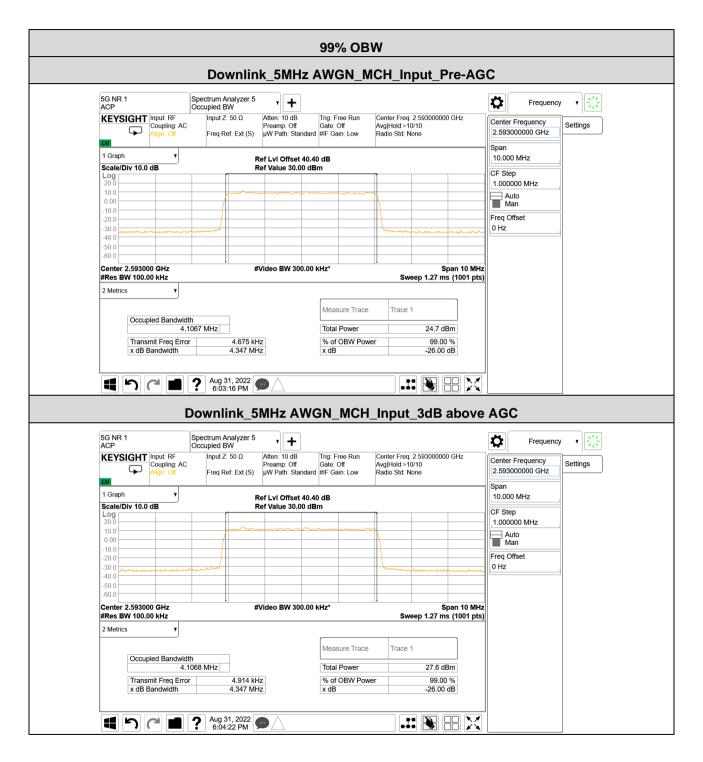
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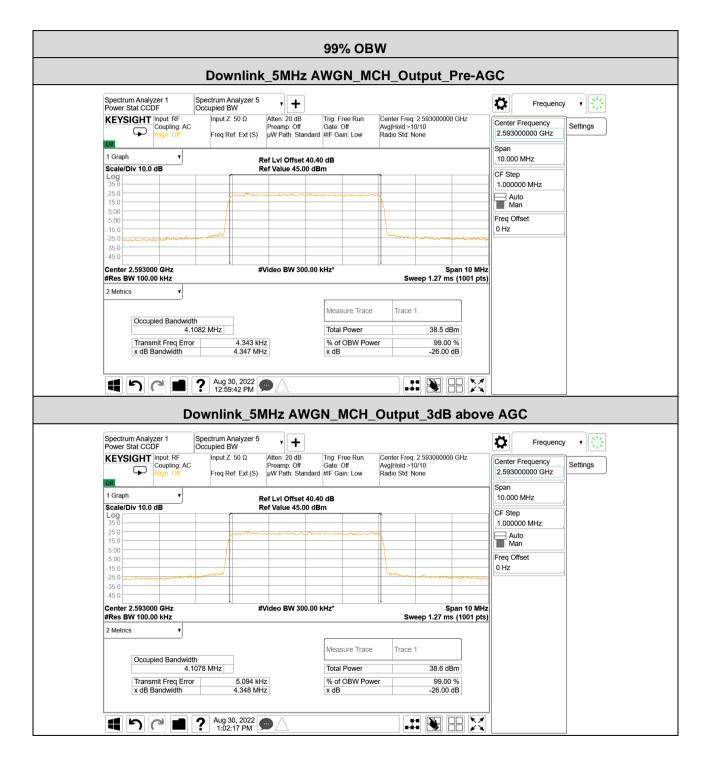
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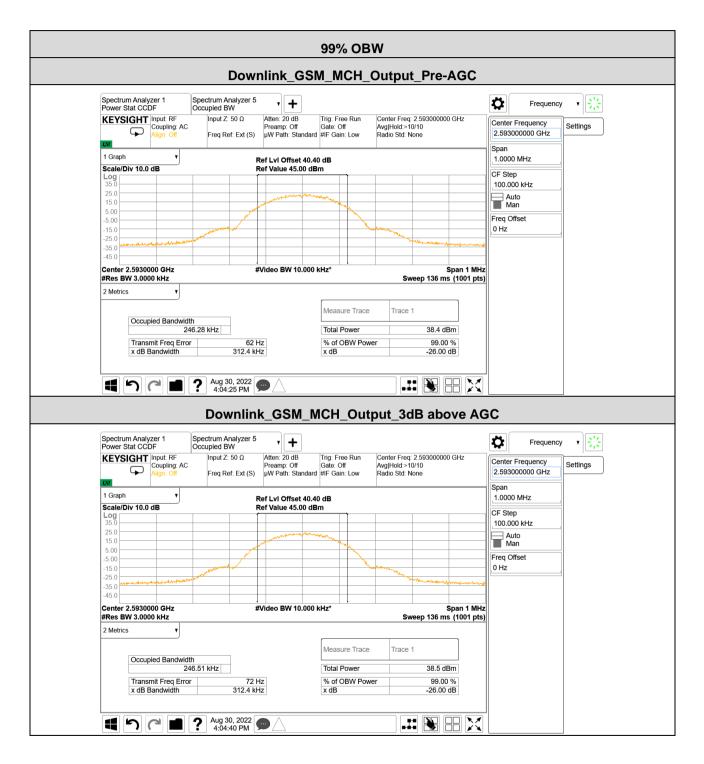
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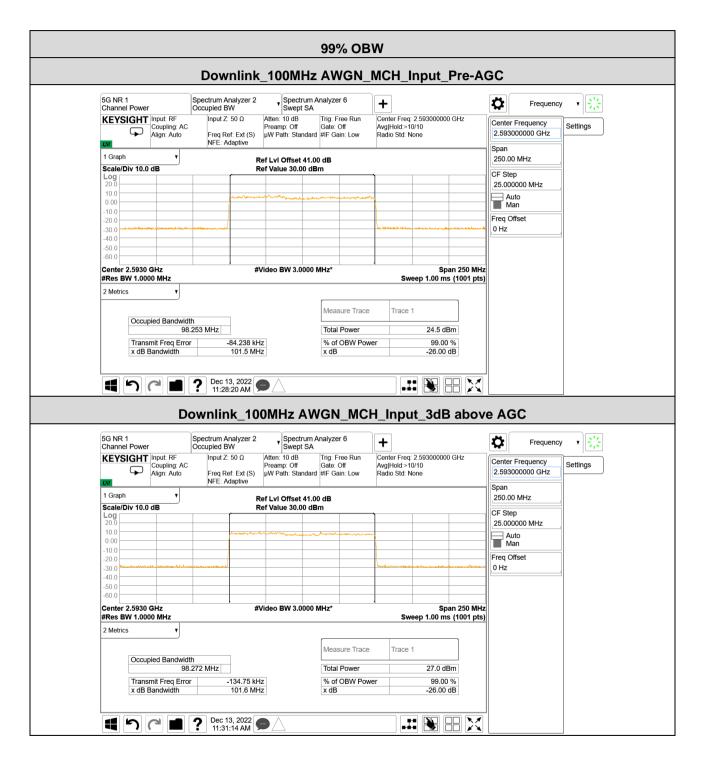
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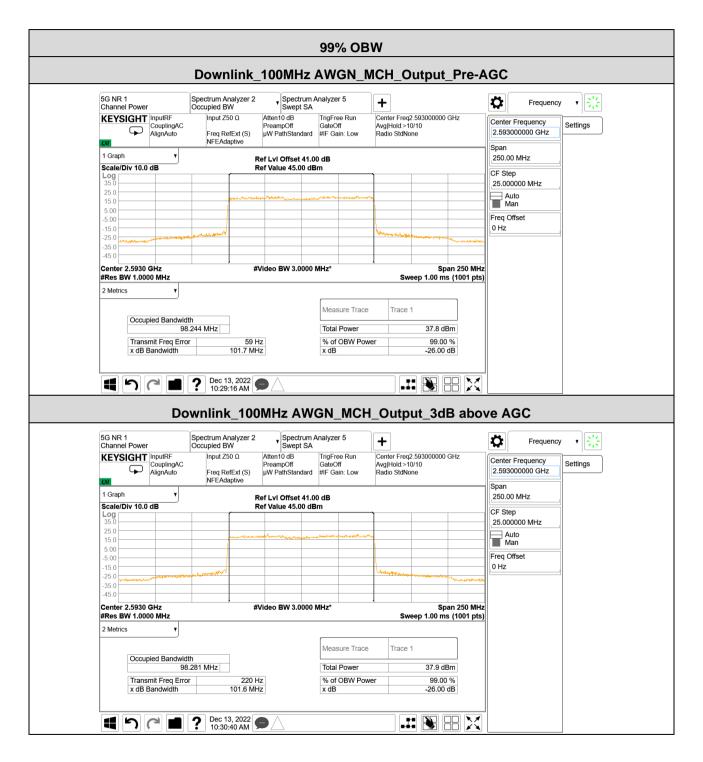
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3 Mean output power and amplifier/booster gain

Mean conducted output power and gain									
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Conducted Output Power (dBm)	Gain (dB)			
	5MHz	Pre-AGC	24.50	38.76	14.26				
		AWGN	3dB above AGC	27.50	39.01	/			
		100MHz 678.4 AWGN	Pre-AGC	26.60	35.11	8.51			
Downlink	2678.4		3dB above AGC	29.60	35.43	/			
		GSM	Pre-AGC	24.80	39.07	14.27			
			3dB above AGC	27.80	39.28	/			



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	EIRP											
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	SISO Conducted Output Power (dBm)	SISO EIRP (W)	Total EIRP (W)	Verdict					
		5MHz	Pre-AGC	38.76	23.77	94.63	PASS					
		AWGN	3dB above AGC	39.01	25.18	100.24	PASS					
		100MHz AWGN GSM	Pre-AGC	35.11	10.26	40.84	PASS					
Downlink	2678.4		3dB above AGC	35.43	11.05	43.96	PASS					
			Pre-AGC	39.07	25.53	101.63	PASS					
			3dB above AGC	39.28	26.80	106.26	PASS					

Remark:

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.

Total EIRP= Single antenna port Conducted Output Power+3dB+ directional gain.

For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern:

EIRP≤33dBW+10lg(X/Y) dBW+10lg(360/beamwidth) dBW= 1995W+10lg(X/Y) dBW+10lg(360/beamwidth)

For other main or booster:

 $EIRP \le 33dBW+10lg(X/Y) dBW=1995W+10lg(X/Y) dBW$

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		
			a single test	Pre-AGC	-36.50		PASS		
	1.011		signal	3dB above AGC	-35.97		PASS		
	LCH		two adjacent	Pre-AGC	-37.93		PASS		
D		5MHz	test signals	3dB above AGC	-37.02	≤-16	PASS		
Downlink		AWGN	a single test	Pre-AGC	-31.40	≈-10	PASS		
	ПСП		signal	3dB above AGC	-30.26		PASS		
	HCH		two adjacent	Pre-AGC	-33.02		PASS		
			test signals	3dB above AGC	-32.73		PASS		
			a single test	Pre-AGC	-39.55		PASS		
	1.011	100MHz AWGN	signal	3dB above AGC	-39.70	P/ P/ P/ P/	PASS		
	LCH		two adjacent test signals	Pre-AGC	-39.10		PASS		
D				3dB above AGC	-39.04		PASS		
Downlink			a single test signal	Pre-AGC	-27.70		PASS		
	11011			3dB above AGC	-26.85		PASS		
	HCH		two adjacent	Pre-AGC	-27.67		PASS		
			test signals	3dB above AGC	-26.71		PASS		
			a single test	Pre-AGC	-25.25		PASS		
	1.011		signal	3dB above AGC	-24.78		PASS		
	LCH		two adjacent	Pre-AGC	-30.61		PASS		
Deverties		C C \ 4	test signals	3dB above AGC	-31.32	≤-16	PASS		
Downlink		GSM	a single test	Pre-AGC	-22.98	<u></u> ≪-16	PASS		
	LICH		signal	3dB above AGC	-23.21		PASS		
	HCH		two adjacent	Pre-AGC	-31.90		PASS		
			test signals	3dB above AGC	-29.14		PASS		



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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 + 10log10 (P) dB, here,

P = 39dBm = 7.95W, so

the limit = $39dBm - [43 + 10 \log 10 (7.95W)] dB = -13dBm$

2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2), so the limit was calculated to show -16dBm in order to determine the test result conveniently.



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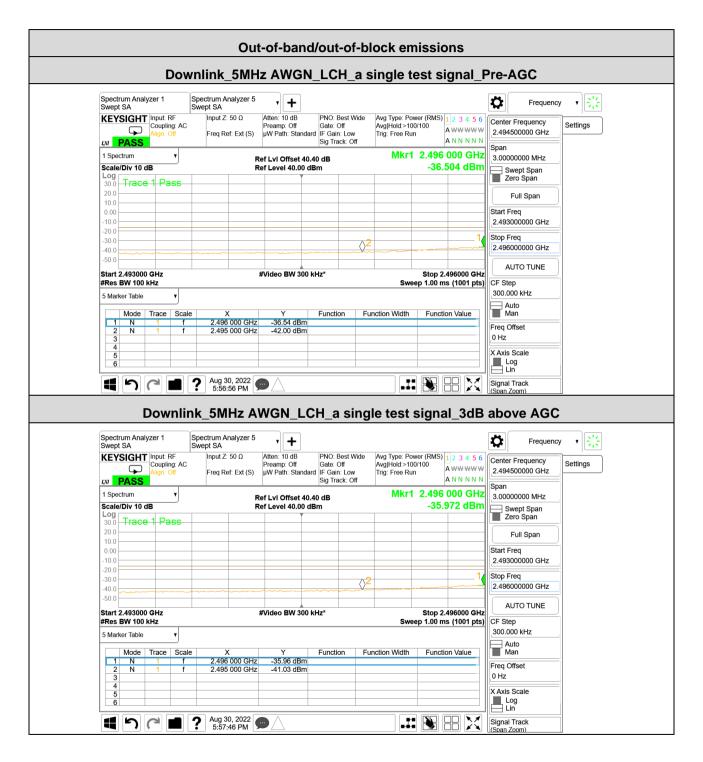
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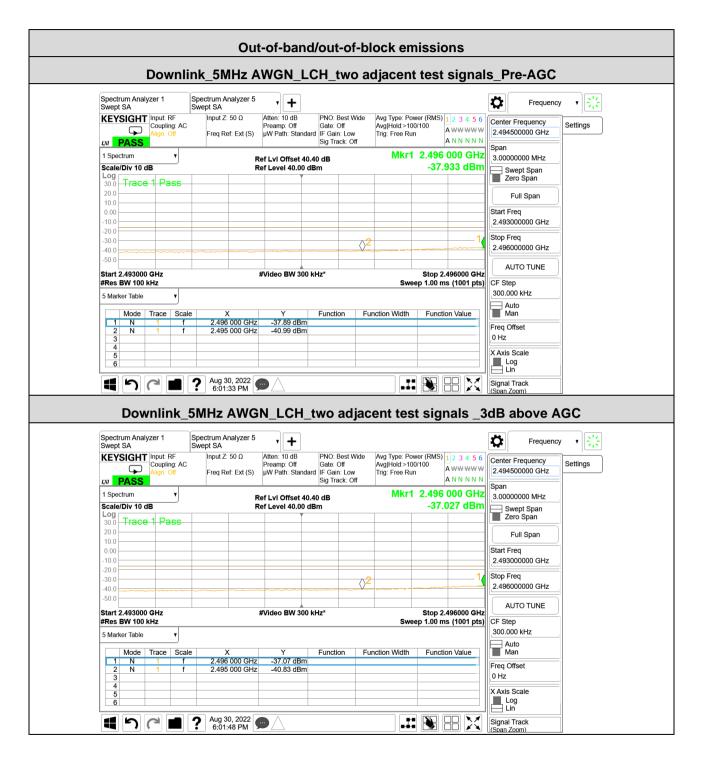
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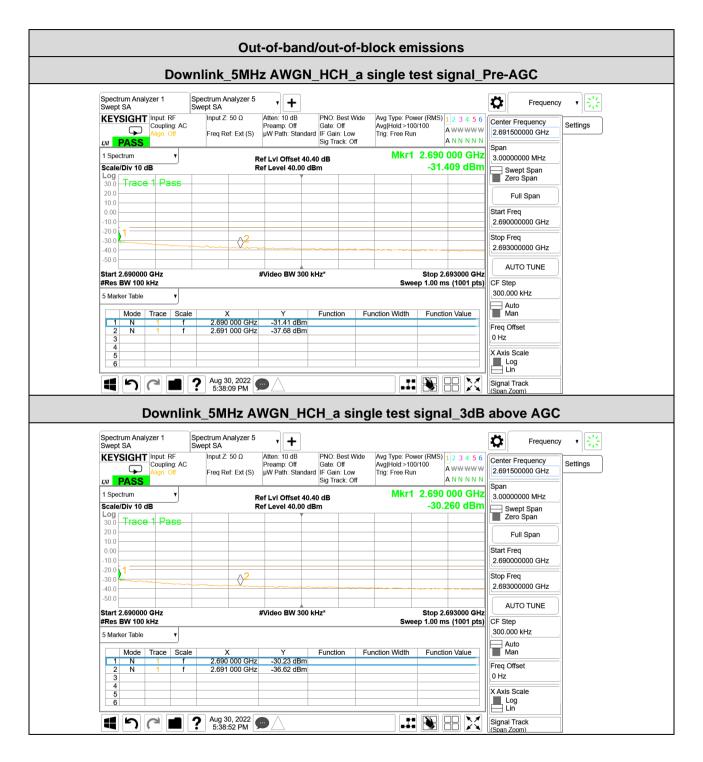
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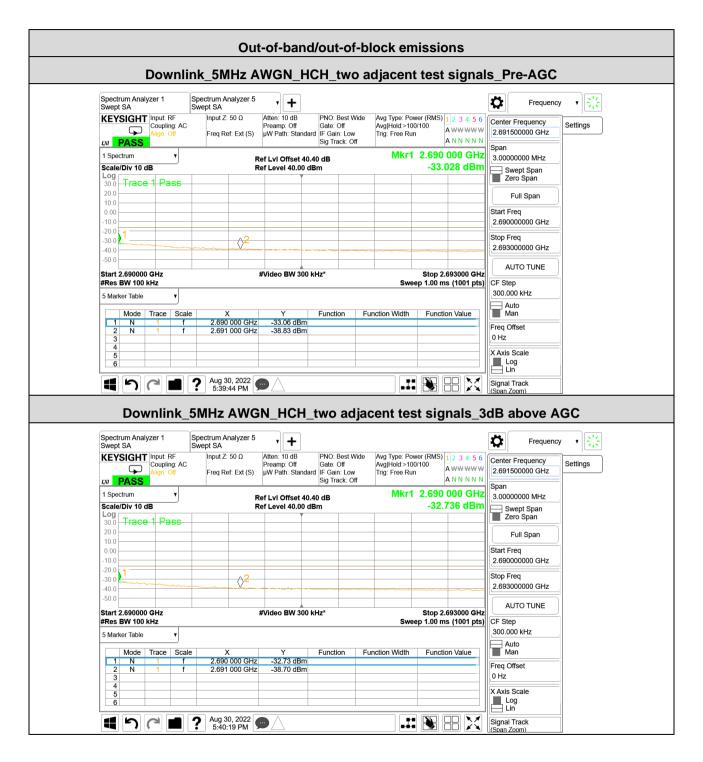


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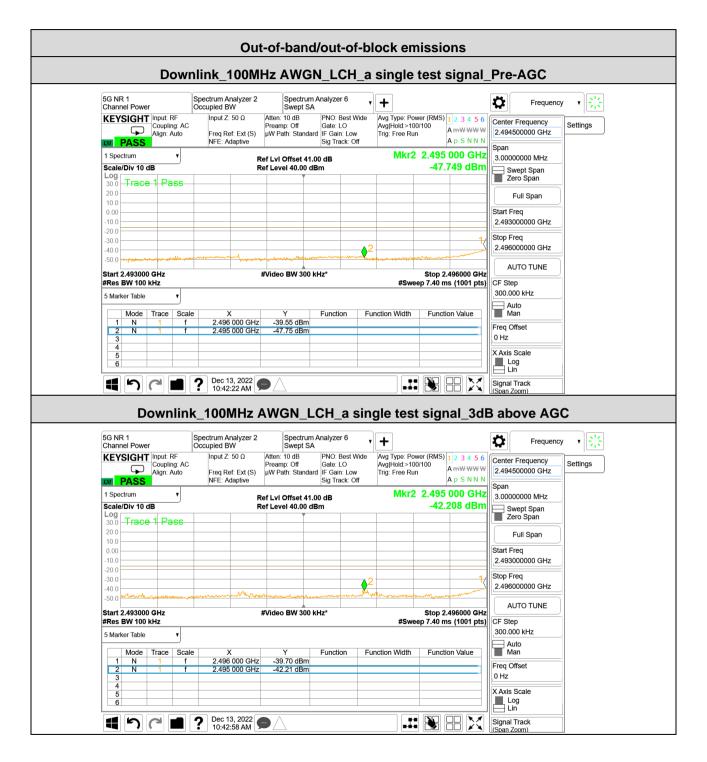
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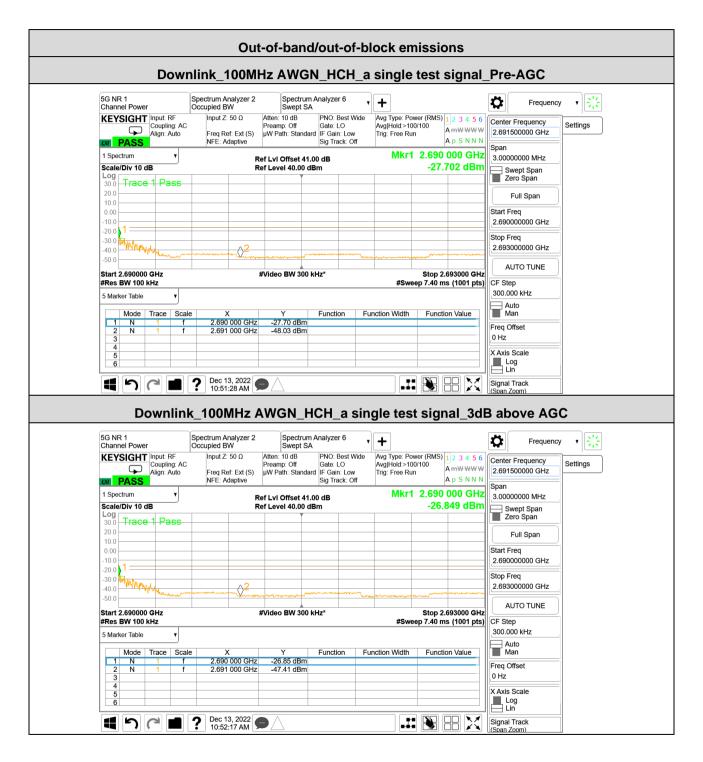
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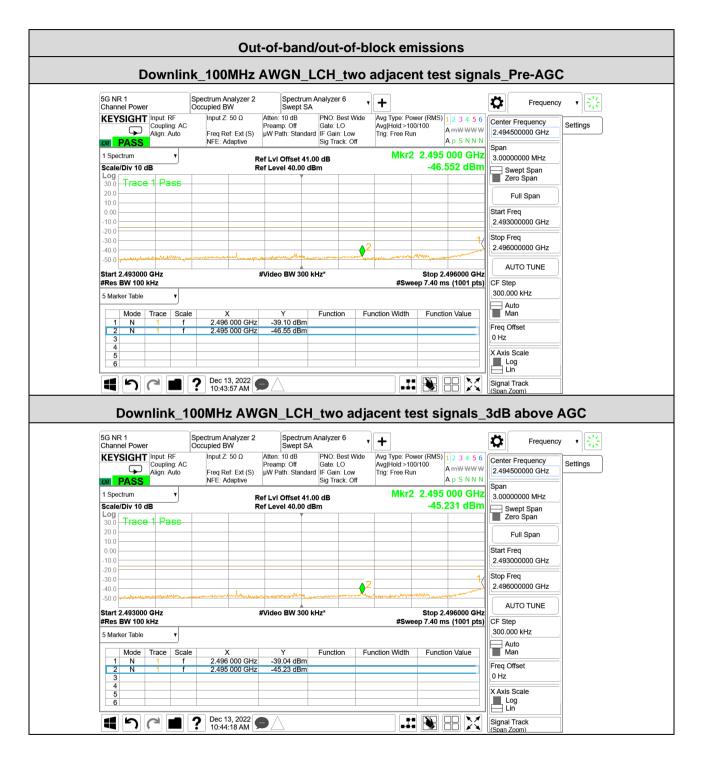
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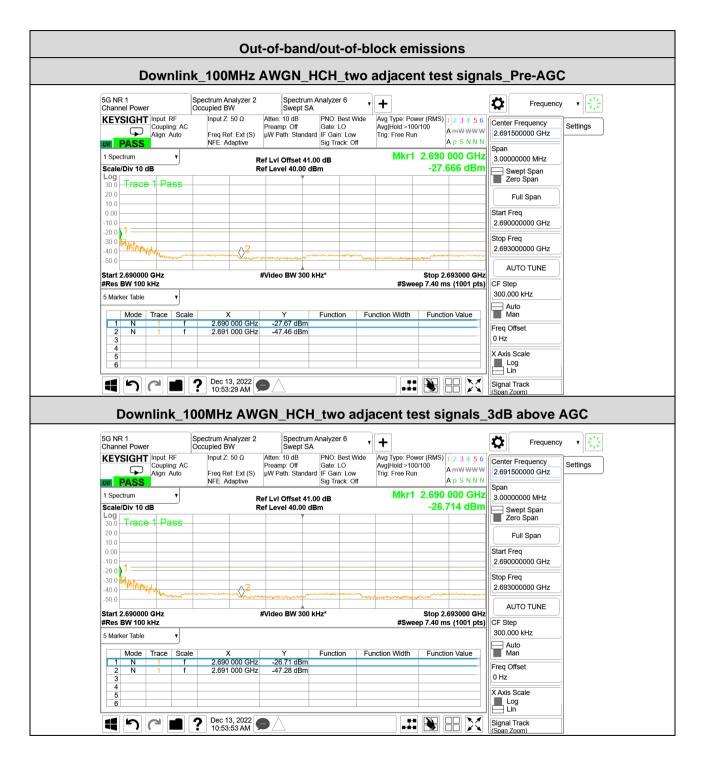
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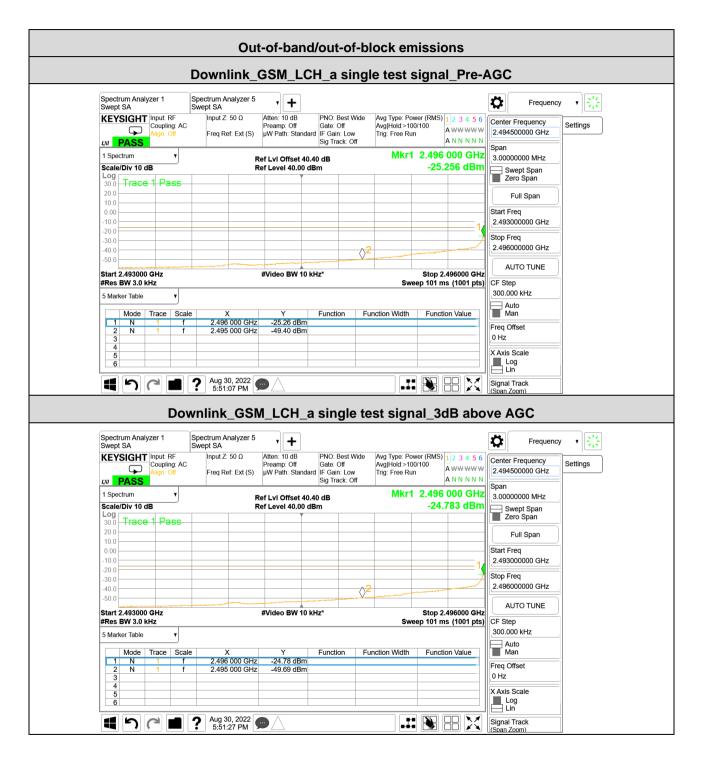
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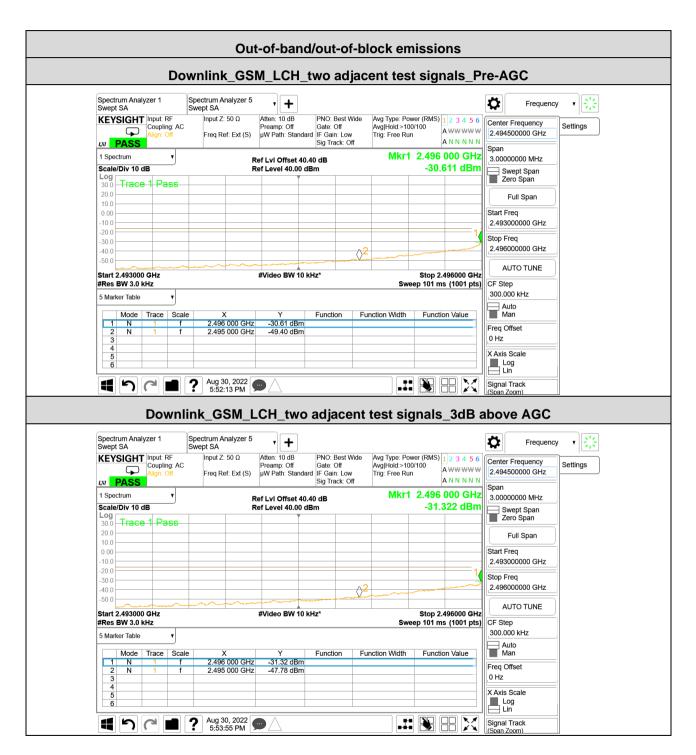
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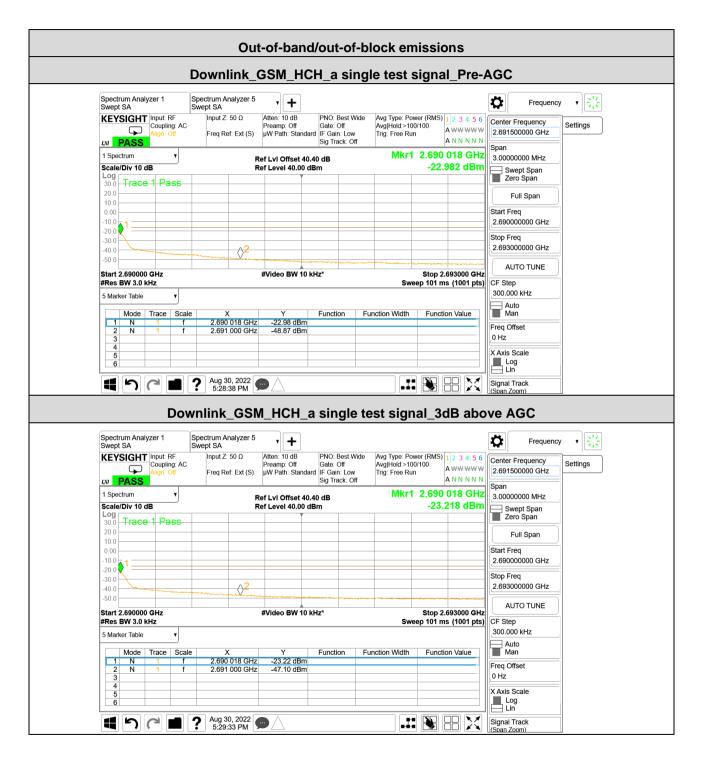






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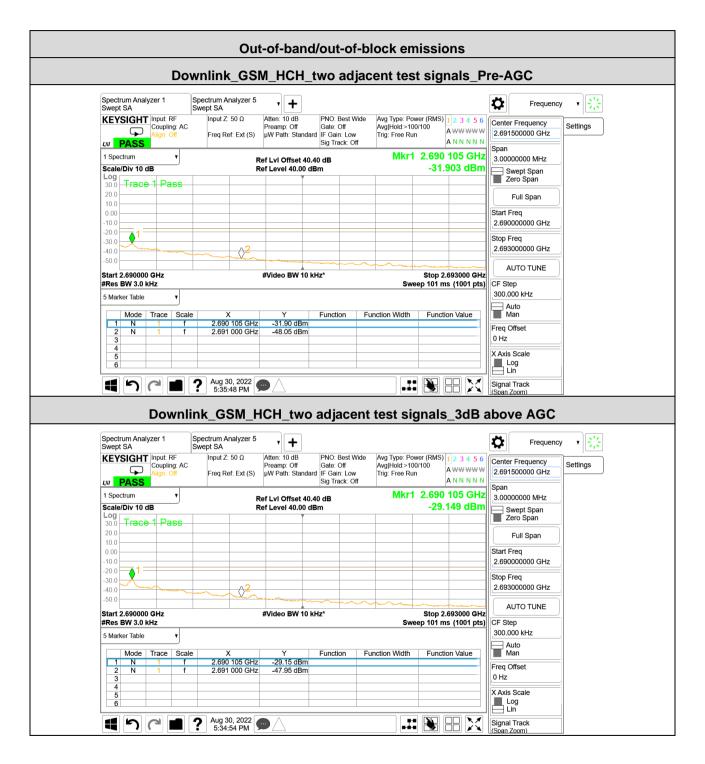
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5 Conducted Spurious emissions

Conducted spurious emissions									
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict		
				30-1000	-46.02		PASS		
		5MHz AWGN	Pre-AGC	1000-2495	-25.68		PASS		
				2691-27000	-29.54		PASS		
		400141		30-1000	-44.7		PASS		
	LCH	100MHz AWGN	Pre-AGC	1000-2495	-27.9		PASS		
				2691-27000			PASS		
				30-1000	-45.86		PASS		
		GSM	Pre-AGC	1000-2495	-22.28		PASS		
				2691-27000	-31.58		PASS		
	мсн	5MHz AWGN 100MHz AWGN	Pre-AGC	30-1000	-46.43	≤-16	PASS		
				1000-2495	-33.05		PASS		
Downlink				2691-27000	-29.19		PASS		
Downlink			Pre-AGC	30-1000	-47.2		PASS		
				1000-2495	-32.8		PASS		
				2691-27000	-28.6		PASS		
				30-1000	-46.52		PASS		
		GSM	Pre-AGC	1000-2495	-27.19		PASS		
				2691-27000	-30.21		PASS		
		CNALL-		30-1000	-46.25		PASS		
		5MHz AWGN	Pre-AGC	1000-2495	-32.99		PASS		
	HCH			2691-27000	-30.32		PASS		
	ПСП	100MHz		30-1000	-45.5		PASS		
		AWGN	Pre-AGC	1000-2495	-31.4		PASS		
		_		2691-27000	-29.6		PASS		



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Downlink HCI				30-1000	-46.63	≤-16	PASS
	НСН	HCH GSM	Pre-AGC	1000-2495	-33.44		PASS
				2691-27000	-21.04		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 = 39dBm = 7.95W, so

the limit = $39dBm - [43 + 10 \log 10 (7.95W)] dB = -13dBm$

- 2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by $10 \log(2)$, so the limit was calculated to show -16dBm in order to determine the test result conveniently.
- 3. 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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6 Frequency Stability

Frequency stability vs voltage									
	Test	Test	Voltage	Temperature	Frequency	Tolerance	\/ad:a4		
Test path	Channel	Signal	(V AC)	(℃)	error (Hz)	(ppm)	Verdict		
Downlink		5MHz	93.5	20	7	0.0027	PASS		
	MCH	AWGN	126.5	20	11	0.0042	PASS		
		100MHz AWGN	93.5	20	3	0.0012	PASS		
	MCH		126.5	20	5	0.0019	PASS		
		GSM	93.5	20	16	0.0062	PASS		
	MCH		126.5	20	14	0.0054	PASS		



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Frequency stability vs temperature										
Test Path	Test Channel	Test Signal	Temperature (°C)	Voltage (V AC)	Frequency error (Hz)	Tolerance (ppm)	Verdict			
			+50	110	34	0.0131	PASS			
			+40	110	30	0.0116	PASS			
			+30	110	26	0.0100	PASS			
		5N41 I-	+20	110	15	0.0058	PASS			
	MCH	5MHz AWGN	+10	110	-21	-0.0081	PASS			
			0	110	-8	-0.0031	PASS			
			-10	110	-13		PASS			
			-20	110	5	0.0019	PASS			
			-30	110	14	0.0054	PASS			
			+50	110	23	0.0089	PASS			
	мсн		+40	110	19	0.0073	PASS			
			+30	110	26	0.0100	PASS			
			+20	110	-12	-0.0046	PASS			
Downlink		100MHz AWGN	+10	110	-21	-0.0081	PASS			
			0	110	-15	-0.0058	PASS			
			-10	110	-8	-0.0031	PASS			
			-20	110	16	0.0062	PASS			
			-30	110	11	0.0042	PASS			
			+50	110	25	0.0096	PASS			
			+40	110	21	0.0081	PASS			
			+30	110	18	0.0069	PASS			
			+20	110	30	0.0116	PASS			
	мсн	GSM	+10	110	-13	-0.0050	PASS			
			0	110	-17	-0.0066	PASS			
			-10	110	6	0.0023	PASS			
			-20	110	-11	-0.0042	PASS			
			-30	110	15	0.0058	PASS			



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7 Radiated Spurious emissions

Radiated Spurious emissions MCH_30MHz-1GHz_Horizontal MCH_30MHz-1GHz_Vertical 100 -12030 Over Over Freq. Level Limit Level Limit Freq. limit limit Pol Verdict Pol Verdict (MHz) (dBm) (dBm) (MHz) (dBm) (dBm) (dBm) (dBm) -42.35 Horizontal PASS -55.35 51.662 -13 51.121 -56.53 -13 -43.53 Vertical **PASS** 103.806 -87.08 -13 -74.08 | Horizontal | PASS **PASS** 99.528 -81.94 -13 -68.94 Vertical 229.293 -85.63 -72.63 Horizontal PASS -13 185.138 -82.82 -13 -69.82 Vertical **PASS** -80.3 -67.3 Horizontal PASS 352.943 -13 **PASS** 303.544 -81.93 -13 -68.93 Vertical -75.46 -62.46 Horizontal PASS 564.639 -13 601.427 -72.95 -13 -59.95 Vertical **PASS** -74.76 -61.76 Horizontal PASS 721.726 -13 726.805 -13 Vertical **PASS**



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Radiated Spurious emissions MCH 1GHz-18GHz Horizontal MCH 1GHz-18GHz Vertical Level (dBm) -100 -120 1000 -120 1000 1500 2000 5000 1500 5000 Frequency (MHz) Over Over Limit Freq. Level Freq. Level Limit limit limit Pol Verdict Pol Verdict (MHz) (dBm) (dBm) (MHz) (dBm) (dBm) (dBm) (dBm) **Ve**rtical 2041.984 -51.05 -13 -38.05 Horizontal PASS 1682.477 -52.74 -13 -39.74 **PASS** 2279.044 -49.88 -13 -36.88 Vertical **PASS** 2664.019 -54.36 -13 -41.36 | Horizontal | PASS <u>533</u>0.928 -51.04 -38.04 Horizontal PASS 2366.308 -50.43 -13 -37.43 Vertical **PASS** -13 -30.74 **PASS** 6249.464 -44.16 -13 -31.16 Horizontal PASS 5984.305 -43.74 -13 Vertical 6835.278 -43.08 -30.08 Horizontal PASS 6815.551 -42.01 -13 -29.01 Vertical **PASS** -13 PASS 10484.23 -43.47 -13 -30.47 Horizontal PASS 10636.85 -42.37 -13 -29.37 Vertical



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Radiated Spurious emissions MCH 18GHz-27GHz Horizontal MCH 18GHz-27GHz Vertical 30 Level (dBm) Level (dBm) -100 -100 -120 18000 -120 18000 20000 27000 Frequency (MHz) Frequency (MHz) Over Over Limit Freq. Level Freq. Level Limit limit limit Pol Verdict Pol Verdict (dBm) (MHz) (dBm) (dBm) (MHz) (dBm) (dBm) (dBm) 20339.06 -50.59 -37.59 Horizontal PASS 20096.9 -53.18 -13 -40.18 Vertical **PASS** -13 20749.17 -56.27 -43.27 Vertical **PASS** 21628.86 -53.13 -13 -40.13 Horizontal PASS -13 -52.26 -39.26 Horizontal PASS 21889.48 -57.88 -13 -44.88 Vertical **PASS** 22726.6 -13 **PASS** 24400.49 -53.03 -40.03 Horizontal PASS 23277.59 -54.43 -13 -41.43 Vertical -13 -52.35 -39.35 Horizontal PASS 24381.01 -52.11 -13 -39.11 Vertical **PASS** 25212.55 -13 -38.83 25638.9 -50.9 -13 -37.9 Horizontal PASS 25112.09 -51.83 -13 Vertical **PASS**

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 5MHz AWGN signals/ with 100MHz AWGN signals), only the worst case with 5MHz AWGN signals in middle channel was found and recorded in this report.

-- End of Appendix--



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