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Appendix -

Test Data and Result for report GZCR220700091603



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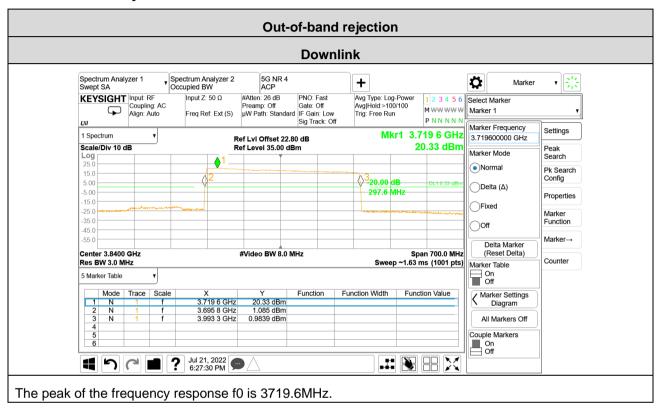
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1 Out-of-band rejection





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2Input versus Output comparison

	Occupied Bandwidth												
Tark Dath	Table O'const	Table Observation	0'	99% OB	\/o.w.ali.o.t								
Test Path	Test Signal	Test Channel	Signal Level	Input	Output	Verdict							
	AWGN	MCH	Pre-AGC	4.0858	4.0981	PASS							
			3dB above AGC	4.0956	4.0990	PASS							
Downlink			Pre-AGC	0.24559	0.24618	PASS							
	GSM	MCH	3dB above AGC	0.24499	0.24554	PASS							



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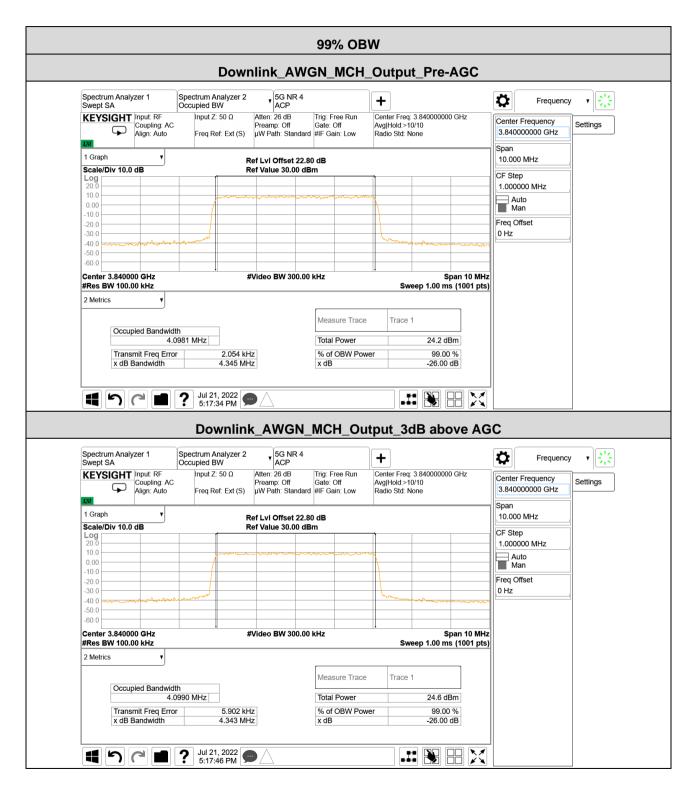
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3 Mean output power and amplifier/booster gain

	Mean output power and gain													
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	EIRP (W)	Total EIRP (W)	Gain (dB)						
			Pre-AGC	25.00	24.22	0.265	1.058	-0.78						
	3719.6	AWGN	3dB above AGC	28.00	24.40	0.276	1.102	/						
Downlink			Pre-AGC	25.00	24.16	0.261	1.042	-0.84						
		GSM	3dB above AGC	28.00	24.09	0.257	1.026	/						

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 0dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 3dBi

	Mean output power													
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm/MHz)	Output Power (dBm/MHz)	EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict						
			Pre-AGC	19.00	18.88	0.077	0.308	PASS						
		AWGN	3dB above AGC	22.00	19.12	0.082	0.328	PASS						
Downlink	3719.6		Pre-AGC	25.00	24.16	0.261	1.042	PASS						
		GSM	3dB above AGC	28.00	24.09	0.257	1.026	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 0dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 3dBi.
- 3. The output power is limited to an EIRP of 1640W/MHz.



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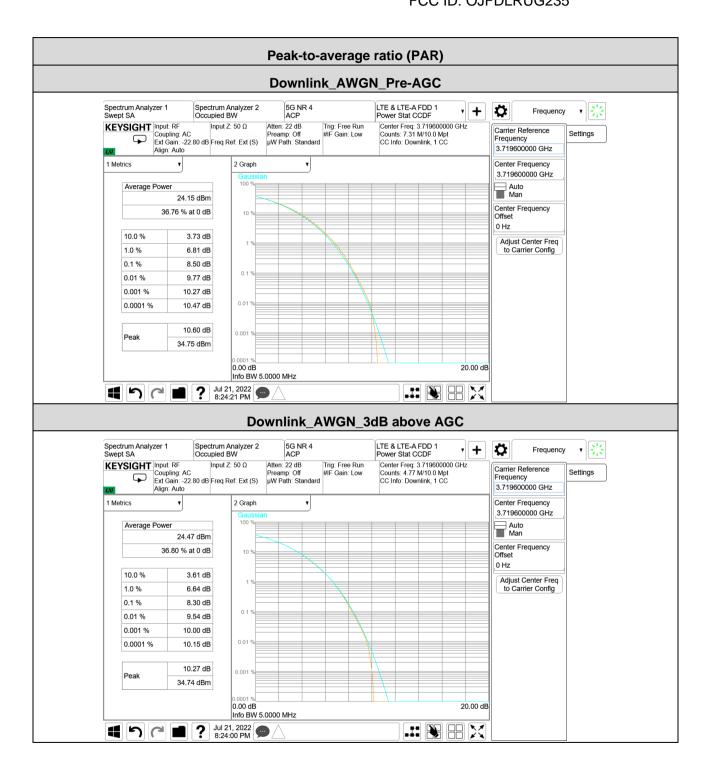
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	Peak-to-average ratio (PAR)												
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	Input power (dBm)	PAR (dB)	Limit (dB)	Verdict						
			Pre-AGC	25.00	8.50		PASS						
			3dB above AGC	28.00	8.30	-10	PASS						
Downlink	3719.6		Pre-AGC	25.00	1.78	≤13	PASS						
		GSM	3dB above AGC	28.00	1.57		PASS						



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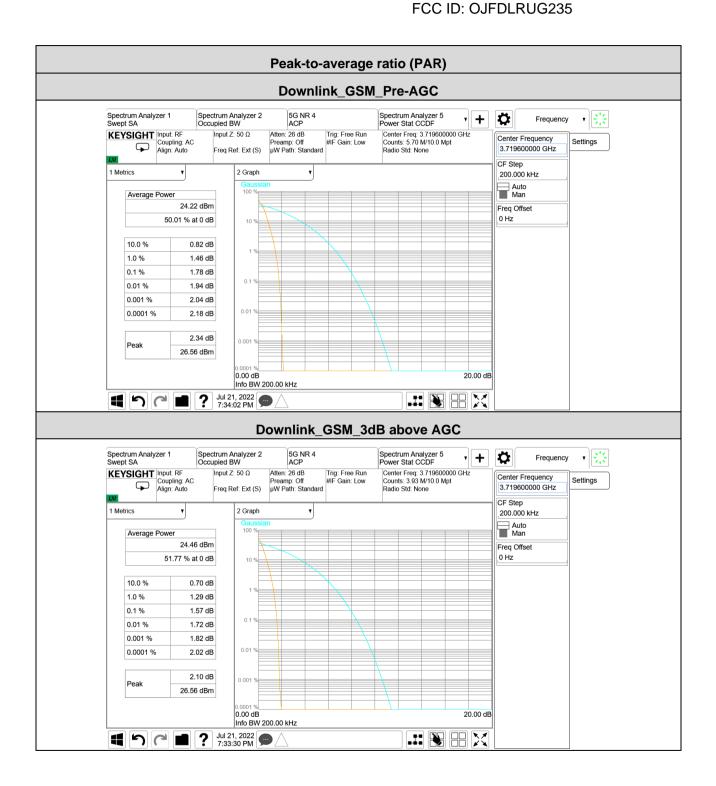


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4 Out-of-band/out-of-block (including intermodulation) emissions

	Out-of-band/out-of-block(including intermodulation) emissions													
					Worst co									
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	(dBm/ 200kHz)	(dBm/ MHz)	Limit (dBm/MHz)	Verdict						
		LCH	a single test	Pre-AGC	-36.82	-29.83		PASS						
	1.011			signal	3dB above AGC	-37.24	-30.25		PASS					
	LCH			two adjacent	Pre-AGC	-38.56	-31.57		PASS					
Dannellali	_	AVACAL	test signals	3dB above AGC	-37.22	-30.23	≤-16	PASS						
Downlink		AWGN	a single test	Pre-AGC	-38.29	-31.30	<u></u> ≈-10	PASS						
	11011		signal	3dB above AGC	-38.82	-31.83		PASS						
	HCH		two adjacent	Pre-AGC	-40.01	-33.02		PASS						
			test signals	3dB above AGC	-38.61	-31.62		PASS						

Remark:

- 1. The level in 1MHz RBW= the level in 200kHz RBW+ 10lg(1000/200).
- 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/MHz in order to determine the test result conveniently.



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	Out-of-band/out-of-block(including intermodulation) emissions												
Toot	Toot	Toot	Ctimuluo			onducted el (dBm)	Limit						
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	(dBm/ 10kHz)	(dBm/ MHz)	Limit (dBm/MHz)	Verdict					
		LCH	a single test	Pre-AGC	-42.17	-22.17		PASS					
	1.011		signal	3dB above AGC	-41.77	-21.77		PASS					
	LCH				two adjacent	Pre-AGC	-39.78	-19.78		PASS			
D. JEJ		0014	test signals	3dB above AGC	-40.02	-20.02	- 10	PASS					
Downlink		GSM	a single test	Pre-AGC	-43.91	-23.91	≤-16	PASS					
	11011		signal	3dB above AGC	-44.44	-24.44		PASS					
	HCH		two adjacent	Pre-AGC	-42.30	-22.30		PASS					
			test signals	3dB above AGC	-42.84	-22.84		PASS					

Remark:

- 1. The level in 1MHz RBW= the level in 10kHz RBW+ 10lg(1000/10).
- 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/MHz in order to determine the test result conveniently.



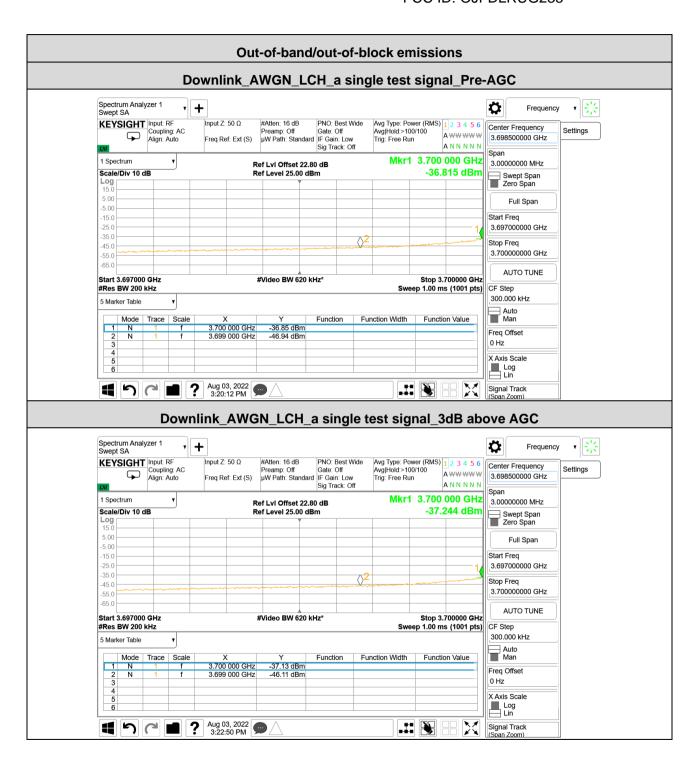
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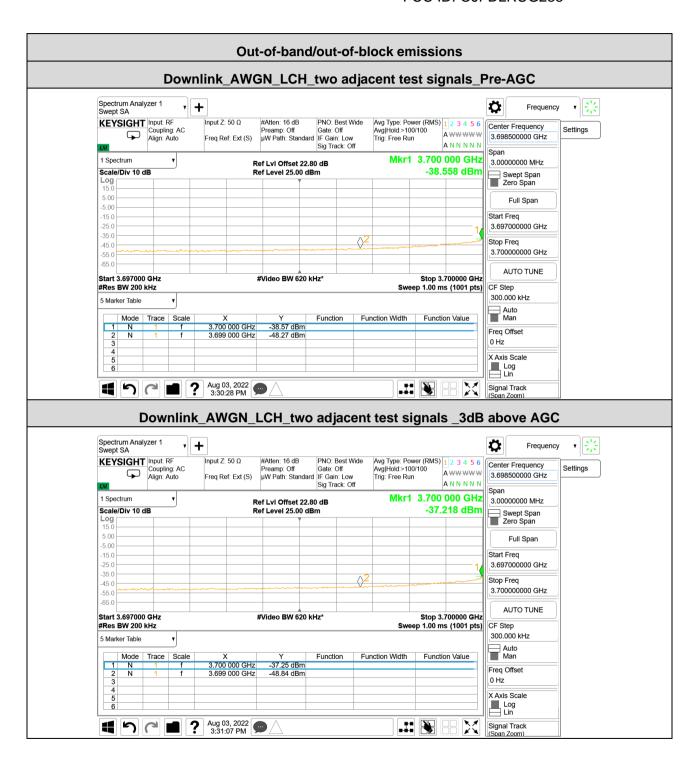
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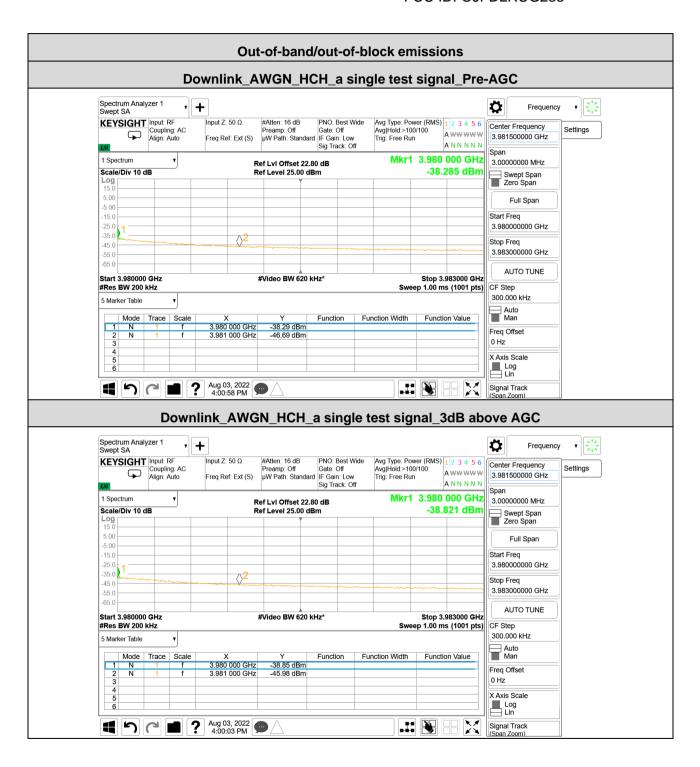
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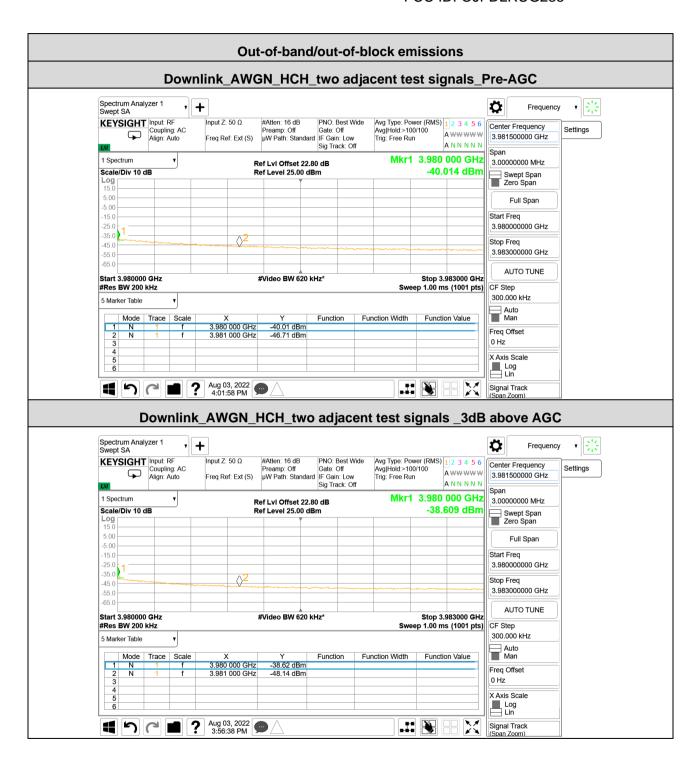
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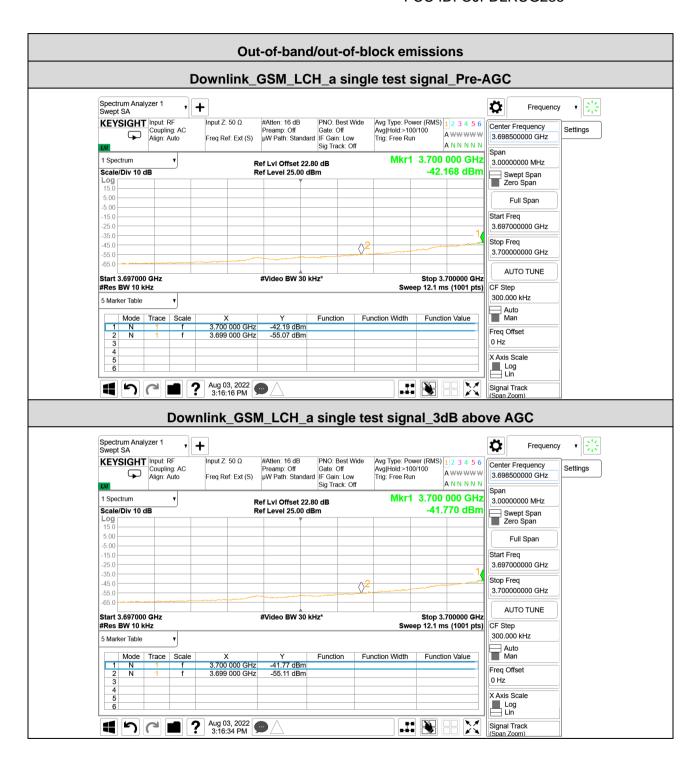


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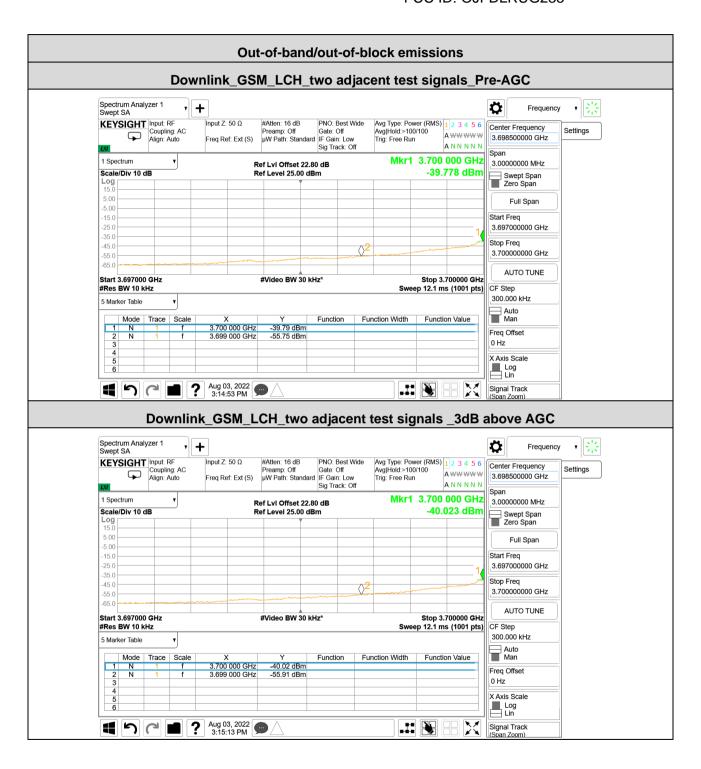
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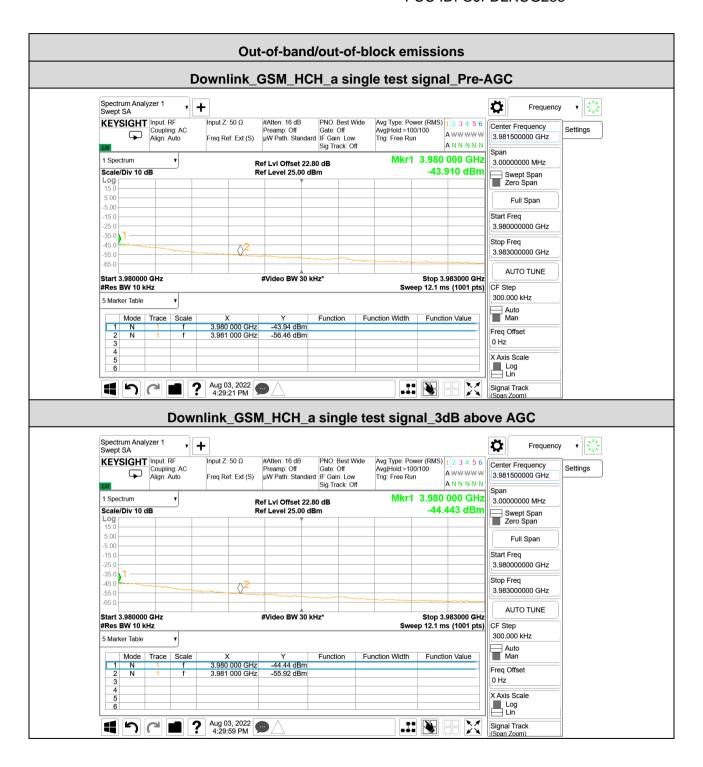
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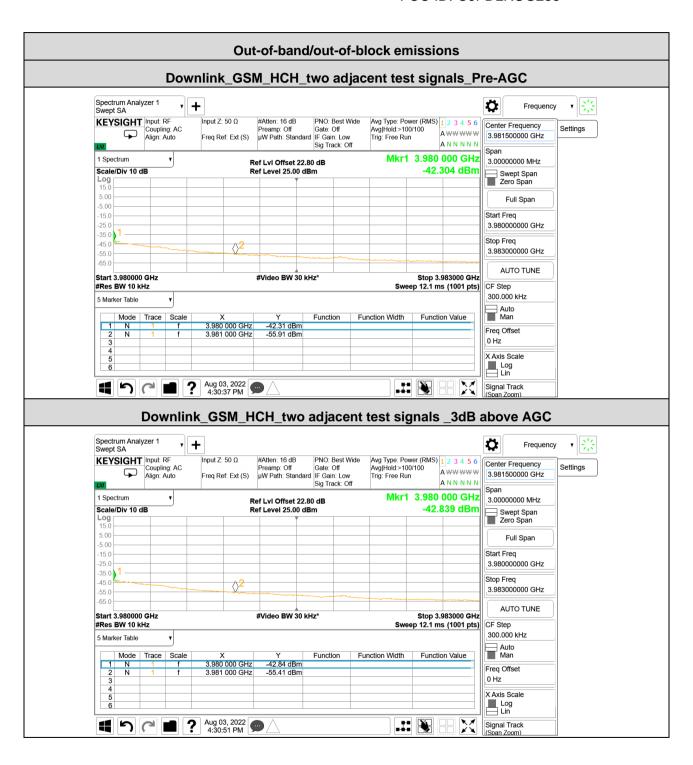
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5 Conducted Spurious emissions

			Conducted	spurious emission	ns		
Tark Dark	Test	Test	Signal	Frequency	Worst test level	Limit	Manallat
Test Path	Channel	Signal	Level	range (MHz)	(dBm/MHz)	(dBm/MHz)	Verdict
				30-1000	-60.06	≤-16	PASS
	HCH			1000-3699	-43.09	≤-16	PASS
				3981-40000	-21.81	≤-16	PASS
				30-1000	-59.44	≤-16	PASS
	MCH	AWGN	Pre-AGC	1000-3699	-42.99	≤-16	PASS
				3981-40000	-42.32	≤-16	PASS
	LCH			30-1000	-59.35	≤-16	PASS
				1000-3699	-24.19	≤-16	PASS
				3981-40000	-42.28	≤-16	PASS
Downlink		1		30-1000	-59.64	≤-16	PASS
	HCH			1000-3699	-42.90	≤-16	PASS
				3981-40000	-22.18	≤-16	PASS
				30-1000	-59.44	≤-16	PASS
	MCH	GSM	Pre-AGC	1000-3699	-42.90	≤-16	PASS
				3981-40000	-42.33	≤-16	PASS
				30-1000	-59.59	≤-16	PASS
	LCH		ļ	1000-3699	-21.90	≤-16	PASS
	20			3981-40000	-42.27	≤-16	PASS

Remark:

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/MHz individually in order to determine the test result conveniently.



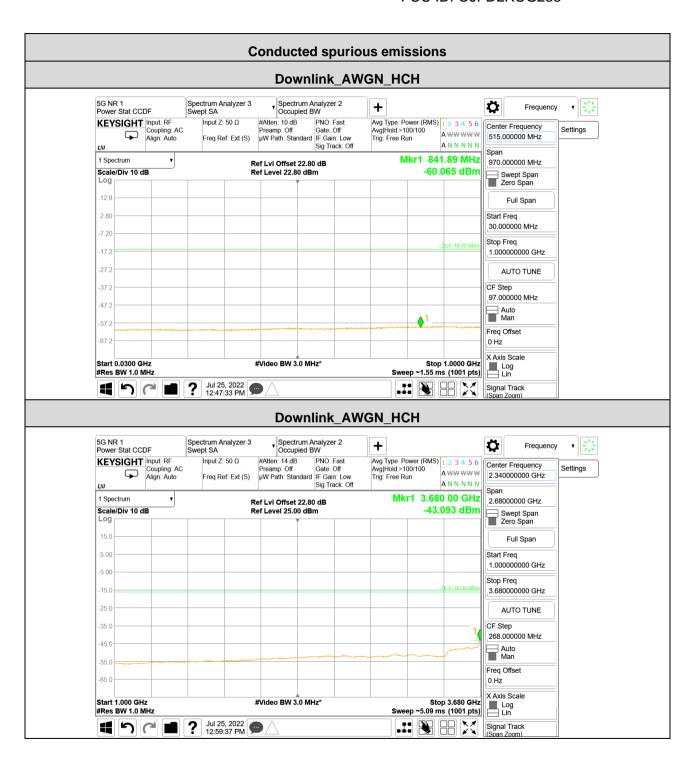
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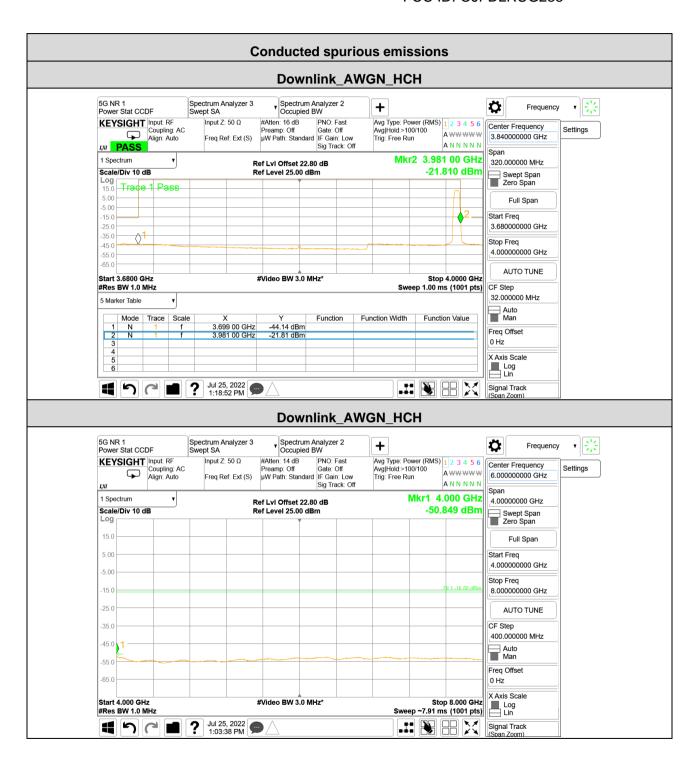
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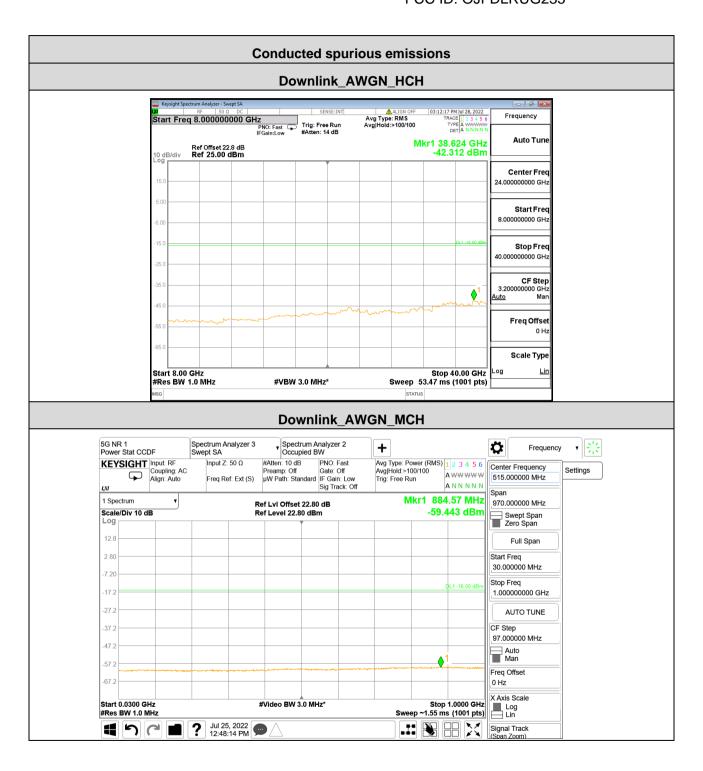
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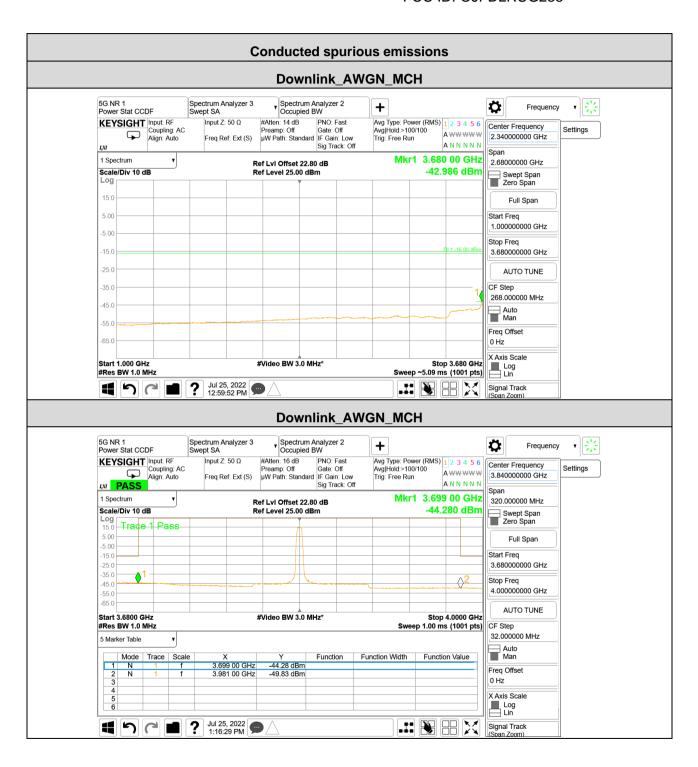
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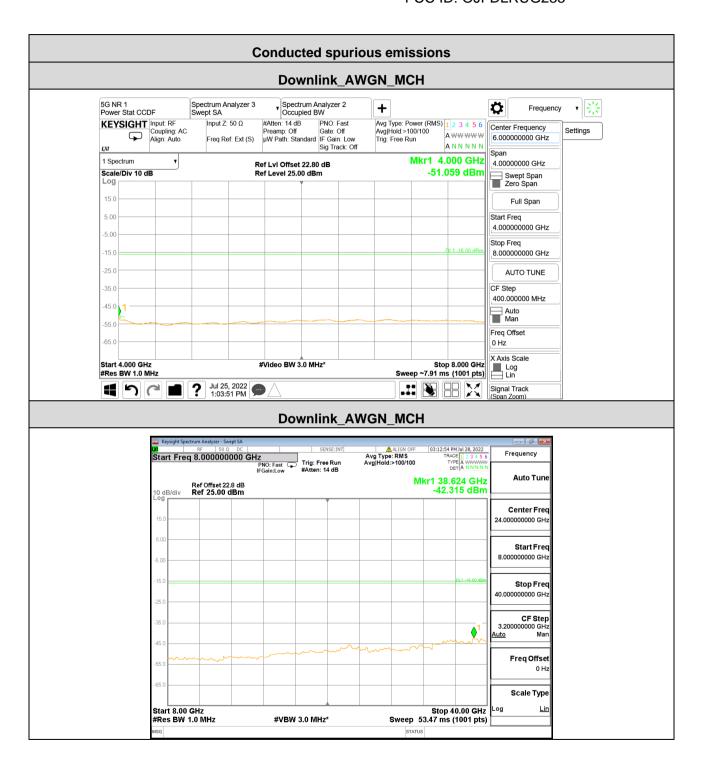
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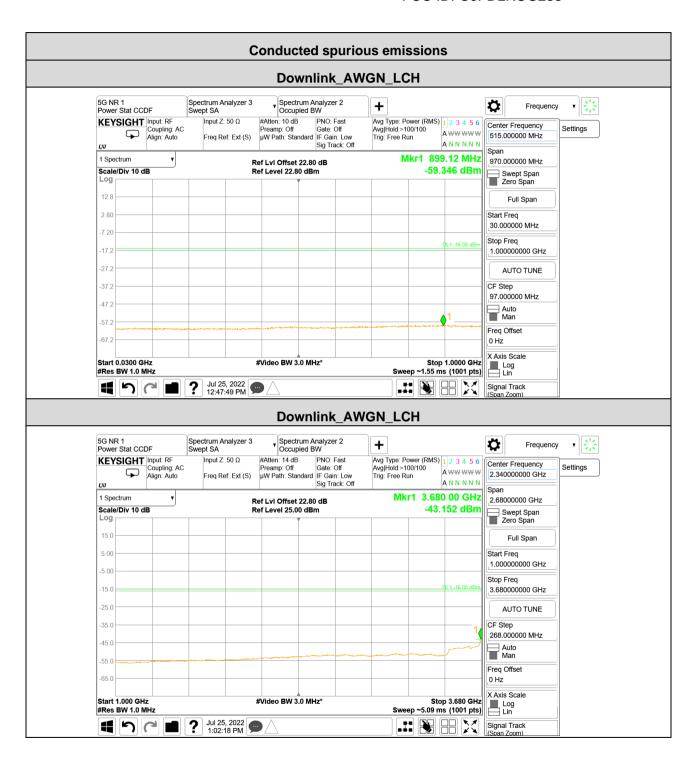




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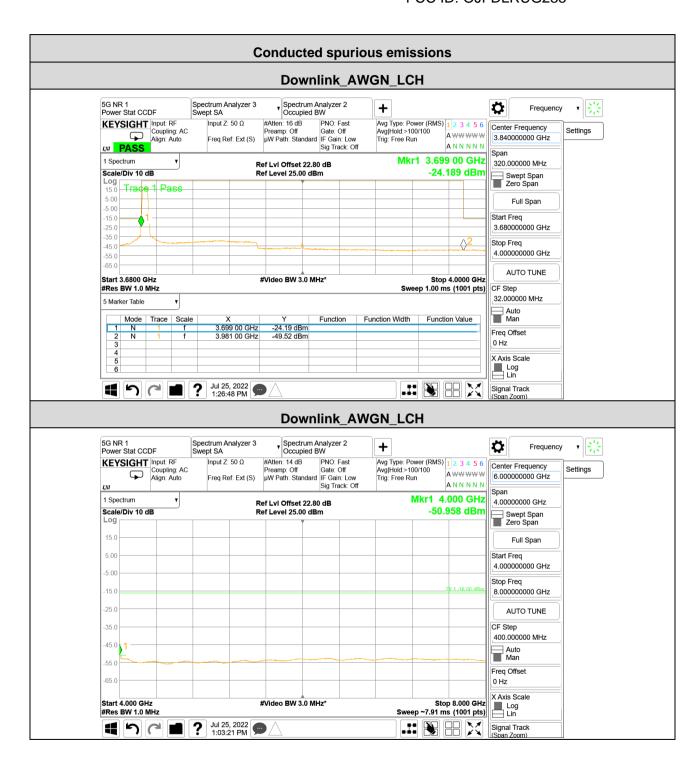


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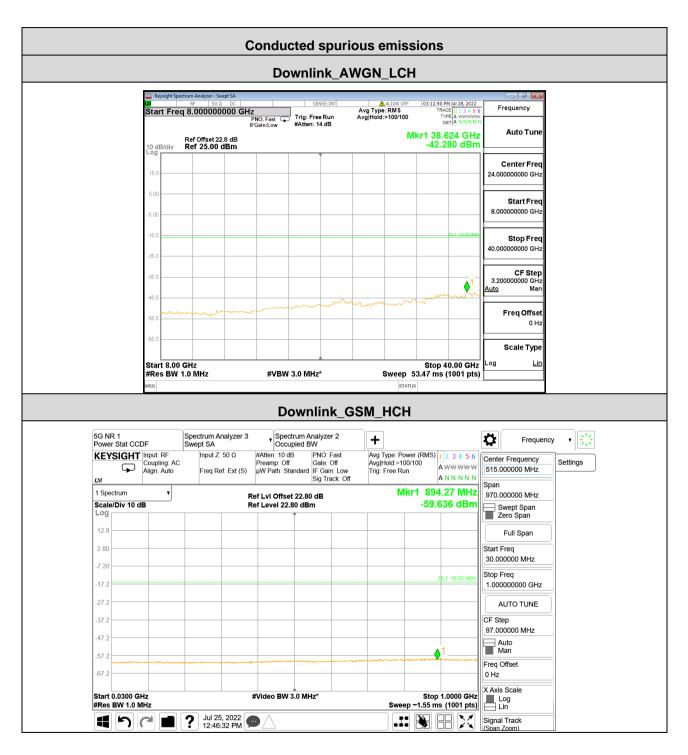
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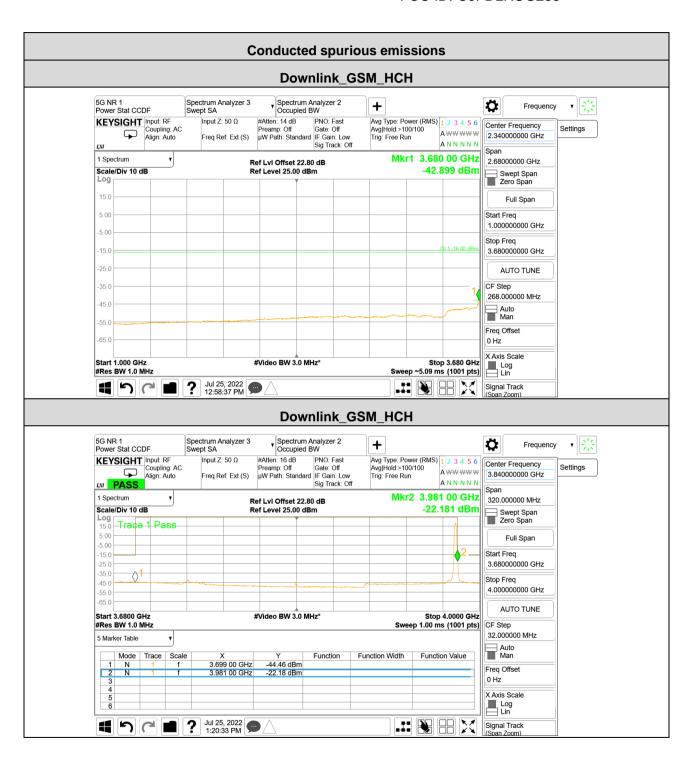
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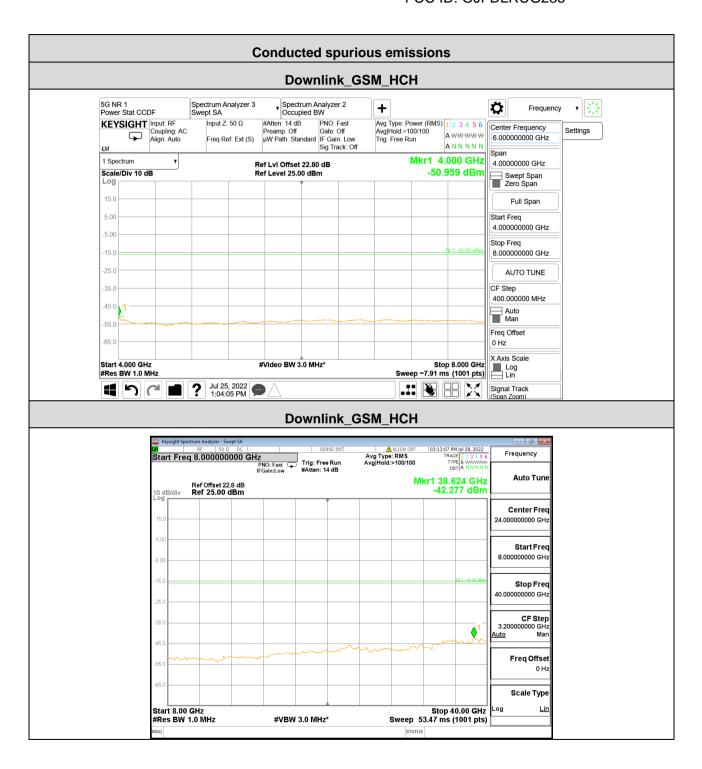
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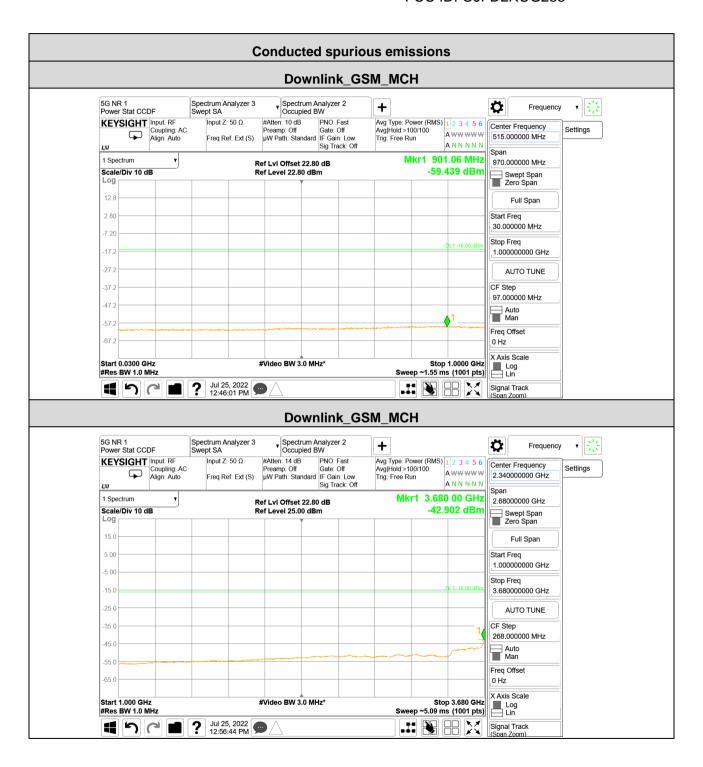
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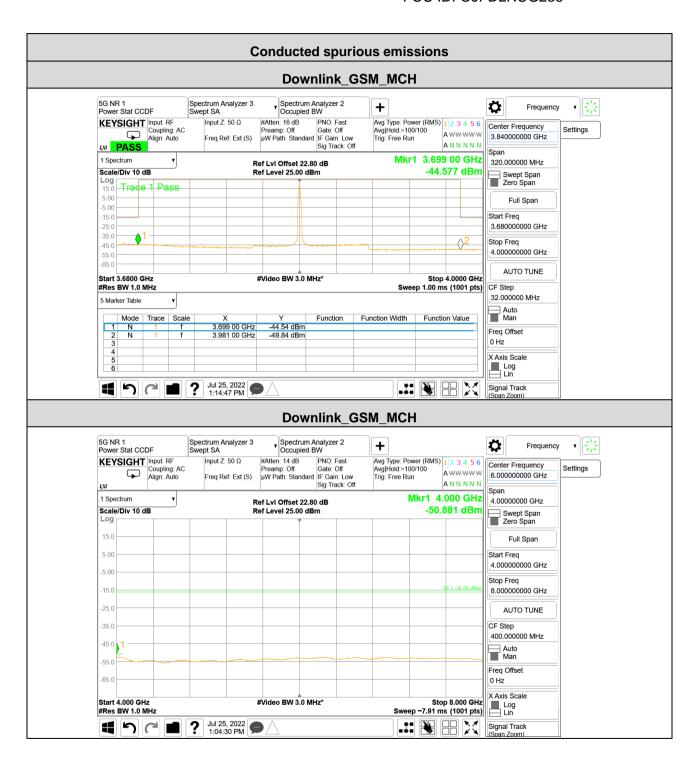
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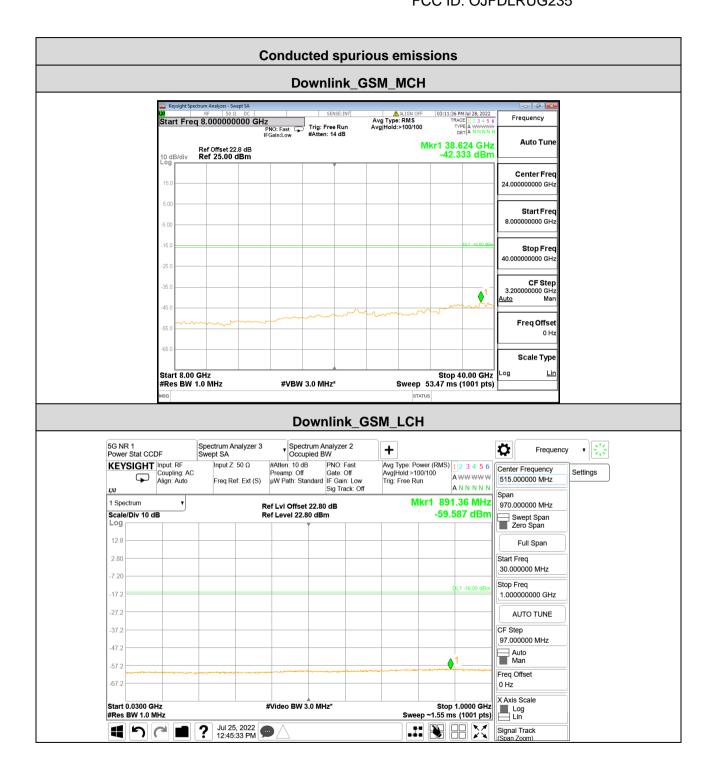




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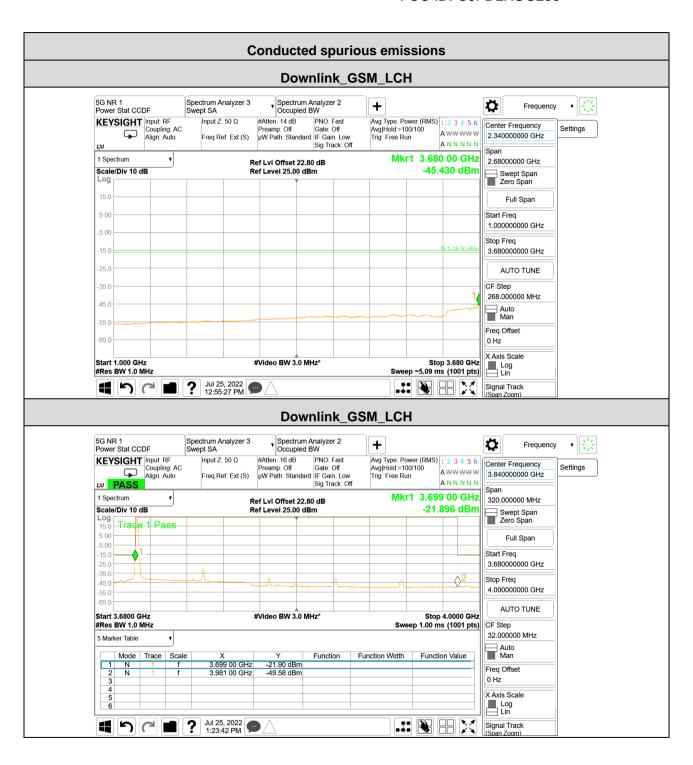
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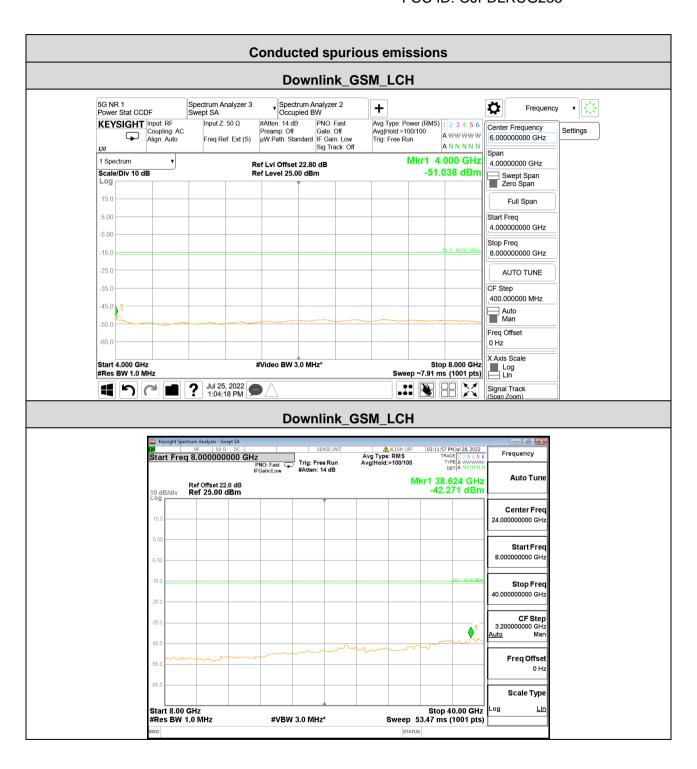
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6 Frequency Stability

			Frequency stab	oility vs tempe	rature		
Test Path	Test	Test	Temperature	Voltage	Frequency	Tolerance	Verdict
	Channel	Signal	(℃)	(V DC)	error (Hz)	(ppm)	
			+50	48	76	0.020	PASS
			+40	48	68	0.018	PASS
			+30	48	65	0.017	PASS
			+20	48	70	0.018	PASS
	AWGN	MCH	+10	48	56	0.015	PASS
			0	48	59	0.015	PASS
			-10	48	46	0.012	PASS
			-20	48	38	0.010	PASS
5 "			-30	48	55	0.014	PASS
Downlink			+50	48	67	0.017	PASS
			+40	48	46	0.012	PASS
			+30	48	53	0.014	PASS
			+20	48	72	0.019	PASS
	GSM	MCH	+10	48	45	0.012	PASS
			0	48	58	0.015	PASS
			-10	48	66	0.017	PASS
			-20	48	38	0.010	PASS
			-30	48	45	0.012	PASS



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Frequency stability vs voltage													
Took noth	Test	Test	Voltage	Temperature	Frequency	Tolerance	\/andiat						
Test path	Channel	Signal	(V DC)	(℃)	error (Hz)	(ppm)	Verdict						
			40.8	20	77	0.020	PASS						
	MCH	AWGN	48	20	59	0.015	PASS						
			55.2	20	63	0.016	PASS						
Downlink			40.8	20	64	0.017	PASS						
	MCH	H GSM	48	20	58	0.015	PASS						
			55.2	20	73	0.019	PASS						

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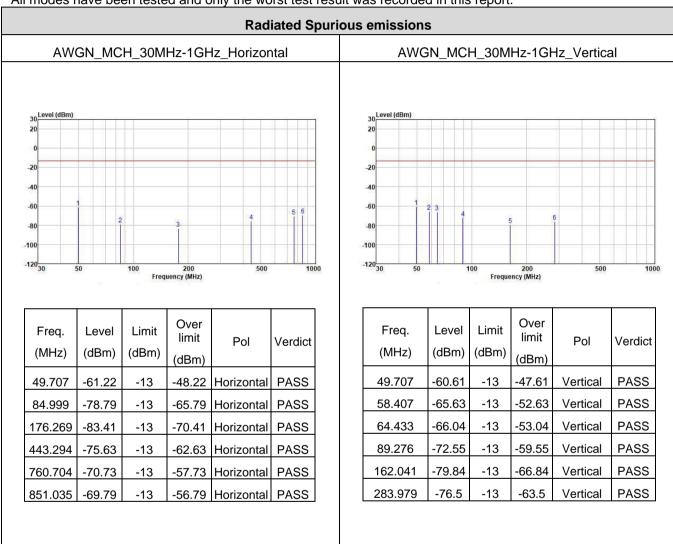


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7 Radiated Spurious emissions

All modes have been tested and only the worst test result was recorded in this report.





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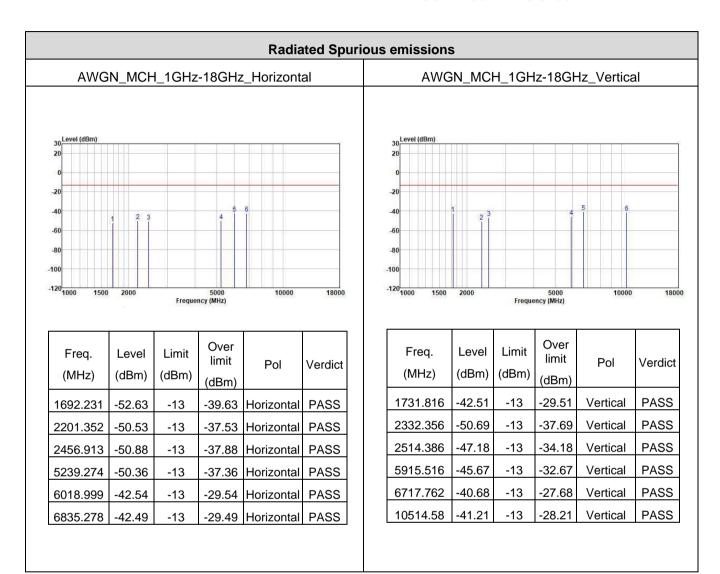
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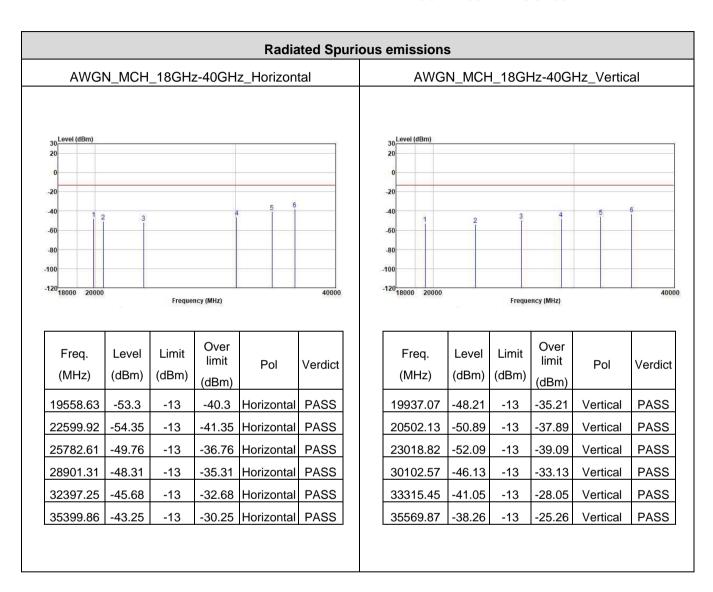
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-- End of Appendix--



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