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FCC ID: OJFDMRUG2678

Appendix -

Test Data and Result for report GZCR230600056703

(For Lower & Upper 700MHz Band DL)



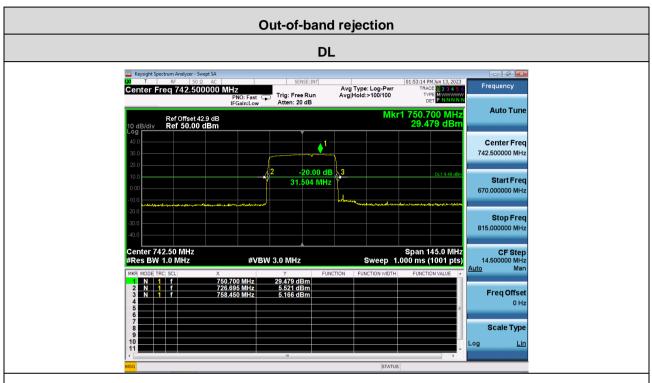
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1 Out-of-band rejection



The peak of the frequency response f0 is 750.7MHz.

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									
Test Path	Test Signal	Test Channel	Signal Level	Verdict					
	4.1MHz	MCH	Pre-AGC	PASS					
	AWGN	WOTT	3dB above AGC	PASS					
	100MHz	MCH	Pre-AGC	PASS*					
DL	AWGN	IVICIT	3dB above AGC	PASS*					
		MCH	Pre-AGC	PASS					
	GSM	MCH	3dB above AGC	PASS					

Remark:

- 1. * The band supports maximum channel BW is 20MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
- 2. 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.

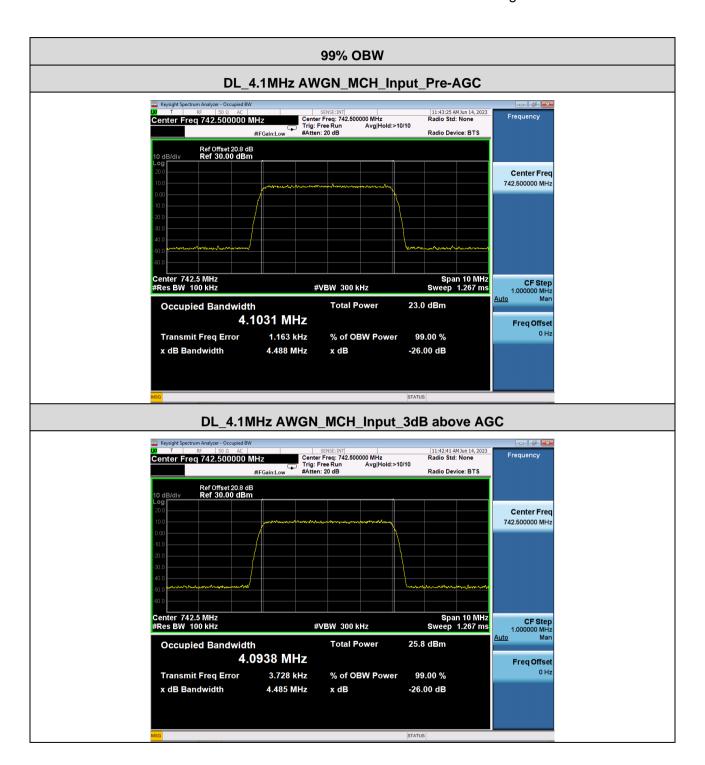


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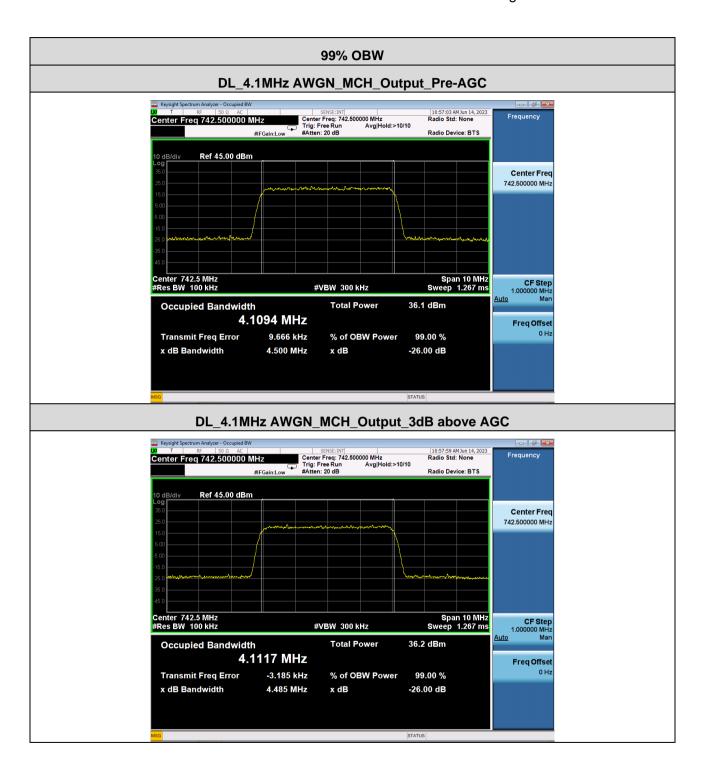


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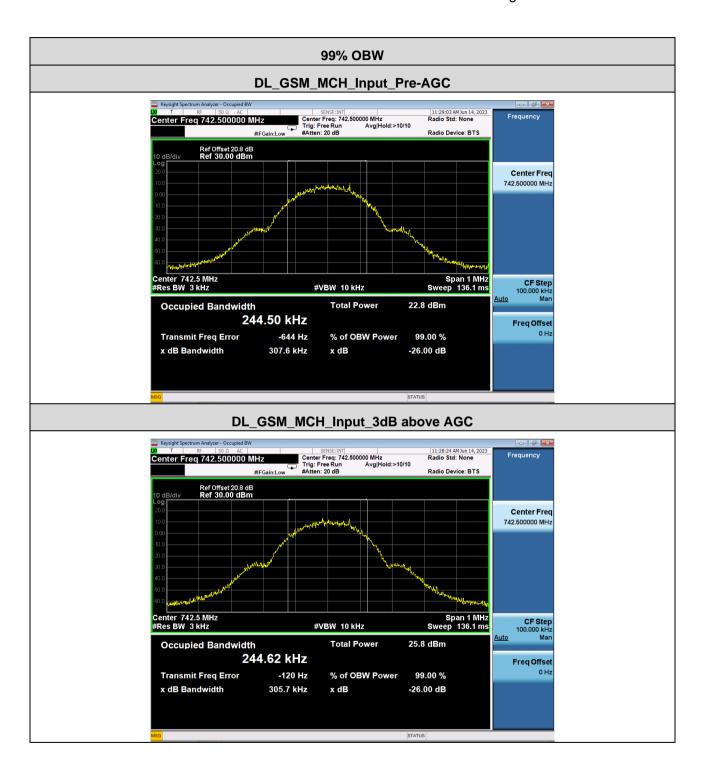


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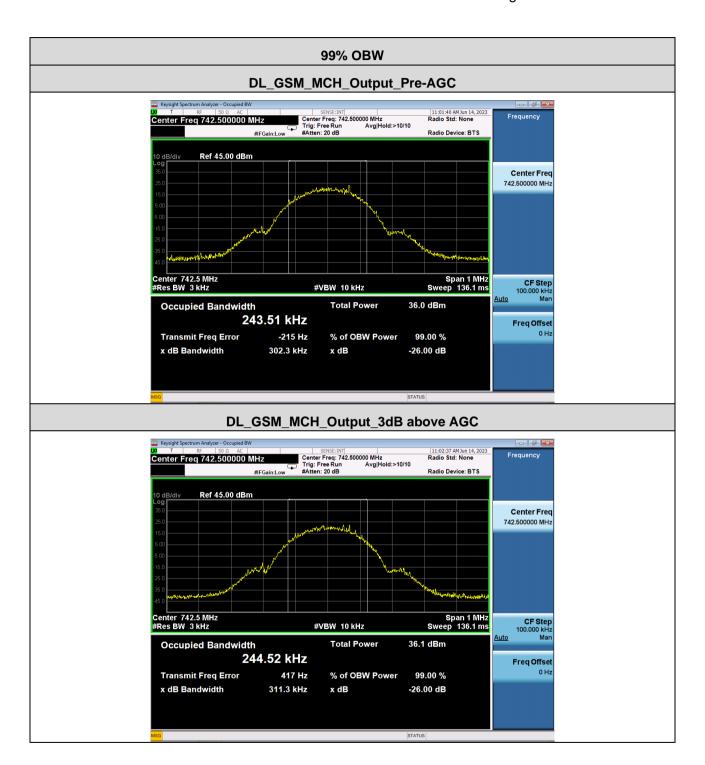


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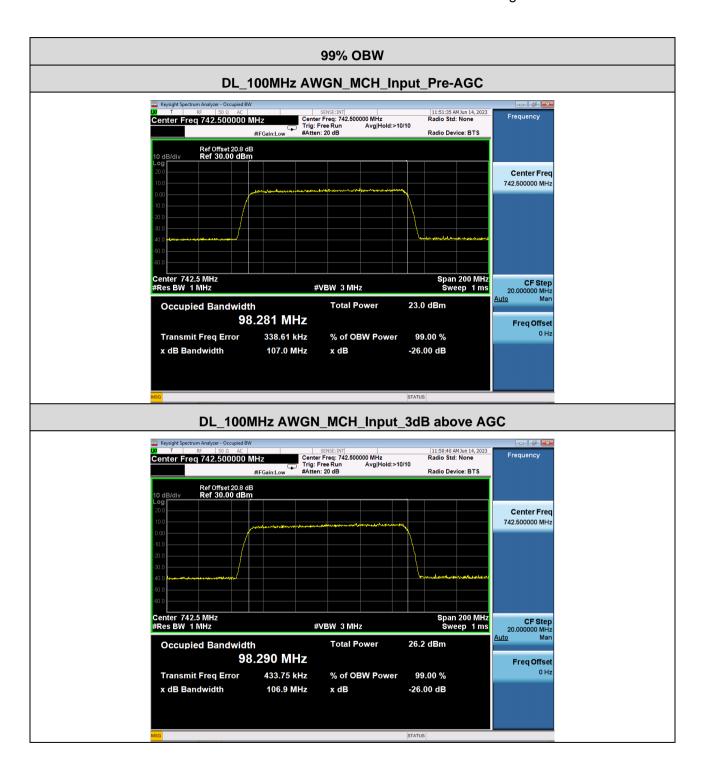


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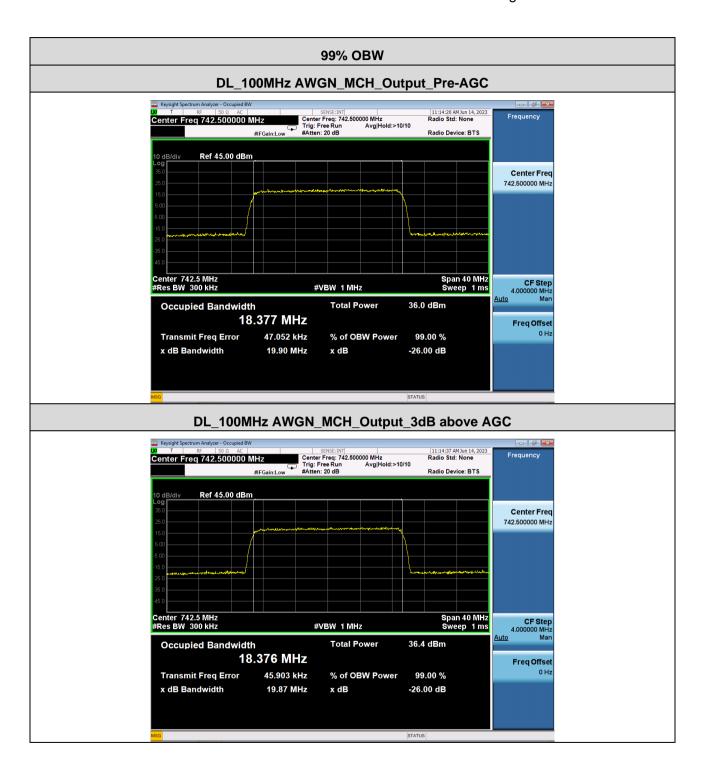


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3 Mean output power and amplifier/booster gain

Mean output power and gain											
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO ERP (W)	Total ERP (W)	Gain (dB)			
		4.1MHz AWGN 100MHz AWGN GSM	Pre-AGC	23.00	35.92	23.83	95.29	12.92			
			3dB above AGC	26.00	36.01	24.33	97.28	/			
			Pre-AGC	18.00	30.32	6.57	26.25	12.32			
DL	750.7		3dB above AGC	21.00	31.65	8.92	35.65	/			
			Pre-AGC	23.00	36.62	27.99	111.95	13.62			
			3dB above AGC	26.00	36.21	25.47	101.86	/			

Remark:

- 1. f0 is from Out-of-band Rejection test in the report.
- 2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 13dBi.
- 3. 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 ERP (W/MHz)	Total ERP (W/MHz)	Verdict				
		4.1MHz	Pre-AGC	29.55	5.50	21.98	PASS				
		750.7 AWGN 100MHz AWGN GSM	3dB above AGC	30.05	6.17	24.67	PASS				
			Pre-AGC	16.71	0.29	1.15	PASS				
DL	750.7		3dB above AGC	17.11	0.32	1.26	PASS				
			Pre-AGC	36.62	27.99	111.95	PASS				
			3dB above AGC	36.21	25.47	101.86	PASS				

Remark:

- 1. f0 is from Out-of-band Rejection test in the report.
- 2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 13dBi.
- 3. The output power is limited to an ERP of 1000W/MHz.
- 4. 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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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				
			One signal	Pre-AGC	-30.19		PASS				
	LCH		input	3dB above AGC	-29.69		PASS				
	LCH		Two signals	Pre-AGC	-35.87		PASS				
DI.		4.1MHz	input	3dB above AGC	-34.74		PASS				
DL		AWGN	One signal	Pre-AGC	-29.29	≤-16	PASS				
	ПСП		input	3dB above AGC	-28.63		PASS				
	HCH		Two signals	Pre-AGC	-36.38		PASS				
			input	3dB above AGC	-36.67		PASS				
		0.11	One signal	Pre-AGC	-19.99		PASS				
	1.011		input	3dB above AGC	-20.60		PASS				
	LCH		Two signals	Pre-AGC	-23.19		PASS				
D 1		100MHz	input	3dB above AGC	-22.74		PASS				
DL		AWGN		Pre-AGC	-21.35	≤-16	PASS				
	LICH		input	3dB above AGC	-21.31		PASS				
	HCH		Two signals	Pre-AGC	-23.97		PASS				
			input	3dB above AGC	-23.54		PASS				

Remark:

P = 36dBm = 3.98W

the limit = $36dBm - [43 + 10 \log 10 (3.98W)] dB = -13dBm$

2. For 2×2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)=-16dBm to determine the test result conveniently.



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^{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,



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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		
			One signal	Pre-AGC	-20.68		PASS		
	1.011		input	3dB above AGC	-19.00		PASS		
	LCH		Two signals input One signal input	Pre-AGC	-21.24		PASS		
5.		0014		3dB above AGC	-21.91		PASS		
DL		HCH GSM		Pre-AGC	-20.72	≤-16	PASS		
F	11011			3dB above AGC	-19.83		PASS		
	псн		Two signals input	Pre-AGC	-35.11		PASS		
				3dB above AGC	-34.24		PASS		

Remark¹

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 = 36dBm = 3.98W

the limit = 36dBm - [43 + 10 log10 (3.98W)] dB = -13dBm

2. For 2×2 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 Start Freq 727.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 40.00 dBm Center Fred 727.850000 MH: Start Fred 727.700000 MHz 728.000000 MH: Start 727.7000 MHz #Res BW 100 kHz Stop 728.0000 MHz 1.000 ms (1001 pts) #VBW 300 kHz* -30.198 dBr -30.458 dBr DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC Start Freq 727.700000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 10 dB **Auto Tune** Ref Offset 42.9 dB Ref 40.00 dBm Center Freq Start Freq 727.700000 MHz Stop Freq 728.000000 MH Start 727.7000 MHz #Res BW 100 kHz CF Step 30.000 kHz Man #VBW 300 kHz* -29.718 dBm -30.261 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC Start Freq 727.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 40.00 dBm Center Fred 727.850000 MH: Start Fred 727.700000 MHz 728.000000 MH: Start 727.7000 MHz #Res BW 100 kHz #VBW 300 kHz* Scale Type DL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC Start Freq 727.700000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 10 dB **Auto Tune** Ref Offset 42.9 dB Ref 40.00 dBm Center Freq Start Freq 727.700000 MHz Stop Freq 728.000000 MH Start 727.7000 MHz #Res BW 100 kHz CF Step 30.000 kHz Man #VBW 300 kHz* -35.136 dBm 727.996 1 MHz 727.900 0 MHz Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC Start Freq 757.000000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 40.00 dBm Center Fred 757.150000 MH: Start Fred 757.000000 MH: 757.300000 MH: Start 757.0000 MHz #Res BW 100 kHz #VBW 300 kHz* -29.314 dBr -28.995 dBr DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC Start Freq 757.000000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 10 dB **Auto Tune** Ref Offset 42.9 dB Ref 40.00 dBm Center Freq Start Freq 757.000000 MHz ()² Stop Freq 757.300000 MH Start 757.0000 MHz #Res BW 100 kHz Stop 757.3000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* -28.668 dBm -28.738 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL 4.1MHz AWGN HCH two adjacent test signals Pre-AGC Start Freq 757.000000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 40.00 dBm Center Fred 757.150000 MH: Start Fred 757.000000 MHz 757.300000 MH: Start 757.0000 MHz #Res BW 100 kHz #VBW 300 kHz* Scale Type DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC Start Freq 757.000000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 10 dB **Auto Tune** Ref Offset 42.9 dB Ref 40.00 dBm Center Freq Start Freq 757.000000 MHz Stop Freq 757.300000 MH Start 757.0000 MHz #Res BW 100 kHz Stop 757.3000 MHz Sweep 1.000 ms (1001 pts) CF Step 30,000 kHz #VBW 300 kHz* -36.700 dBm 757.009 0 MHz 757.100 0 MHz Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_100MHz AWGN_LCH_a single test signal_Pre-AGC Start Freq 727.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 40.00 dBm Center Fred 727.850000 MH: Start Fred 727.700000 MHz 728.000000 MH: Start 727.7000 MHz #Res BW 100 kHz Stop 728.0000 MHz 1.000 ms (1001 pts) #VBW 300 kHz* DL_100MHz AWGN_LCH_a single test signal_3dB above AGC Start Freq 727.700000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 40.00 dBm Center Freq Start Freq 727.700000 MHz Stop Freq 728.000000 MH Start 727.7000 MHz #Res BW 100 kHz CF Step 30.000 kHz Man #VBW 300 kHz* -20.645 dBm -27.477 dBm Freq Offset Scale Type

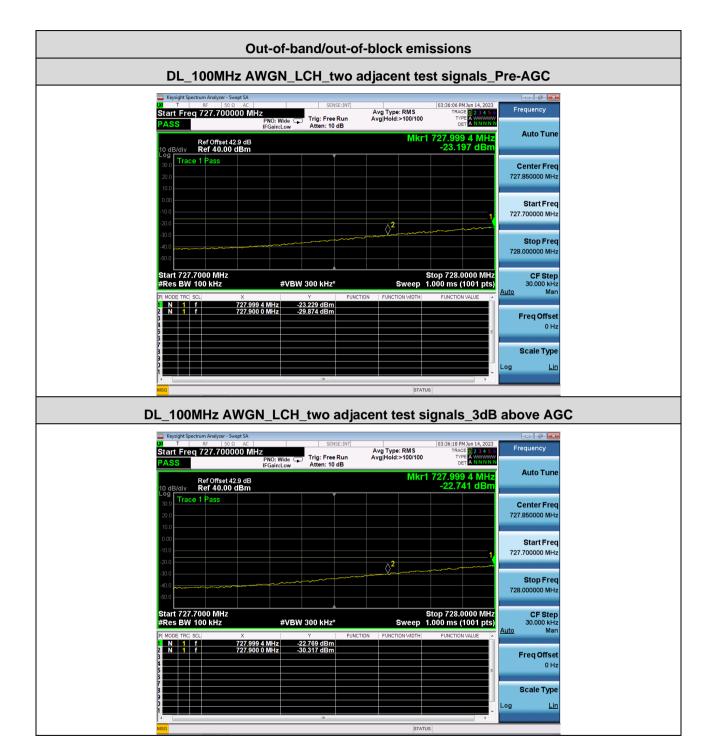


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Out-of-band/out-of-block emissions DL_100MHz AWGN_HCH_a single test signal_Pre-AGC Start Freq 757.000000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 40.00 dBm Center Fred 757.150000 MH: Start Fred 757.000000 MH: 757.300000 MH: Start 757.0000 MHz #Res BW 100 kHz #VBW 300 kHz* -21.391 dBr -27.770 dBr DL_100MHz AWGN_HCH_a single test signal_3dB above AGC Start Freq 757.000000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 40.00 dBm Center Freq Start Freq 757.000000 MHz $\langle \rangle^2$ Stop Freq 757.300000 MH Start 757.0000 MHz #Res BW 100 kHz CF Step 30.000 kHz Man #VBW 300 kHz* -21.340 dBm -28.164 dBm 757.000 0 MHz 757.100 0 MHz Freq Offset Scale Type

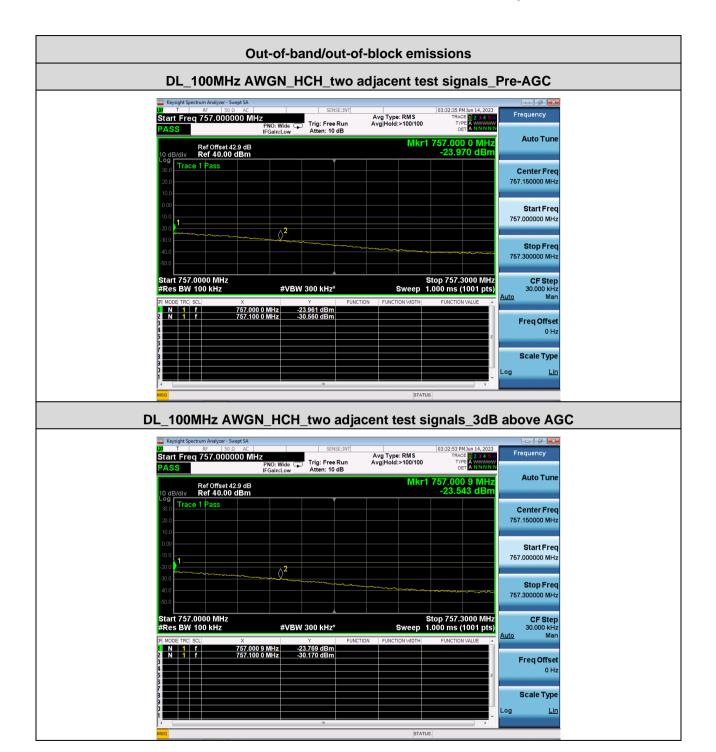


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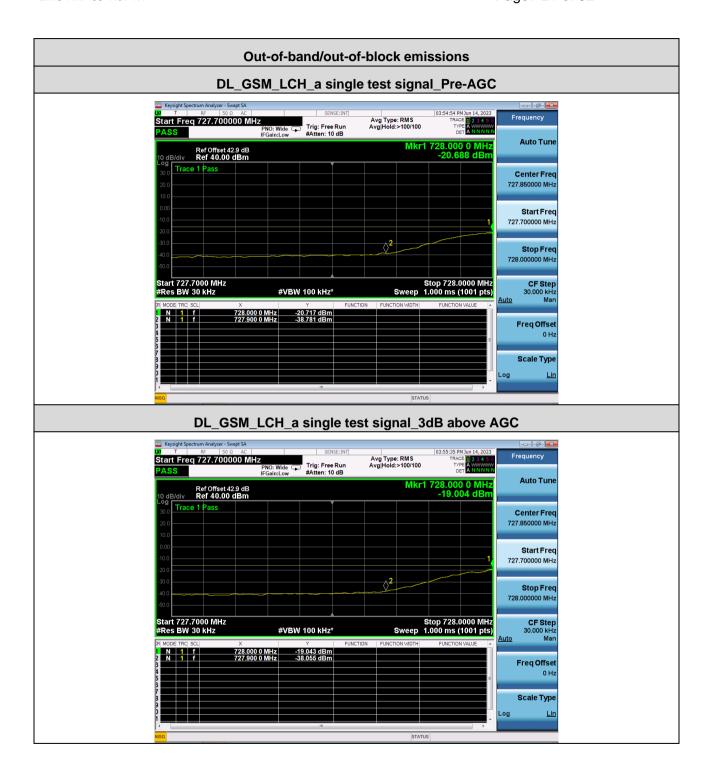


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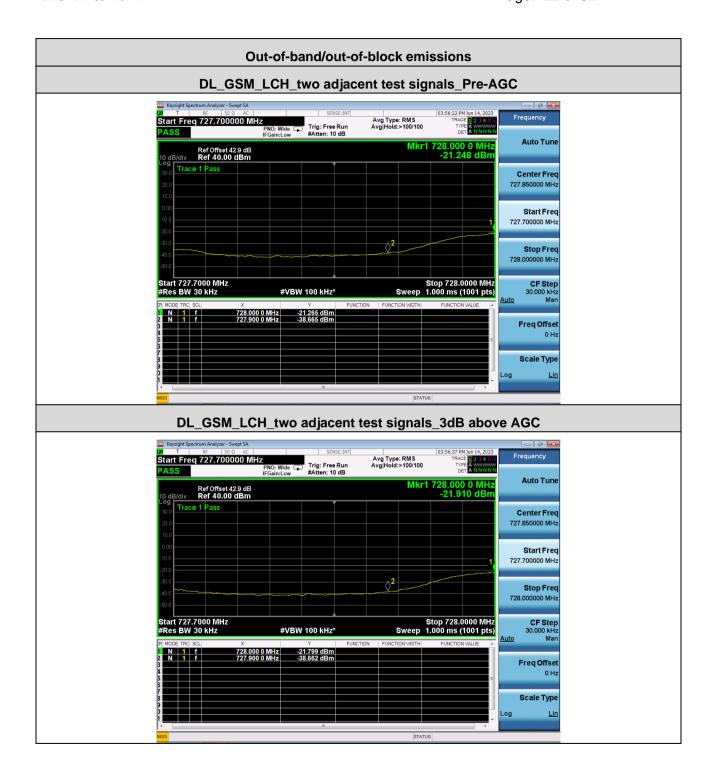


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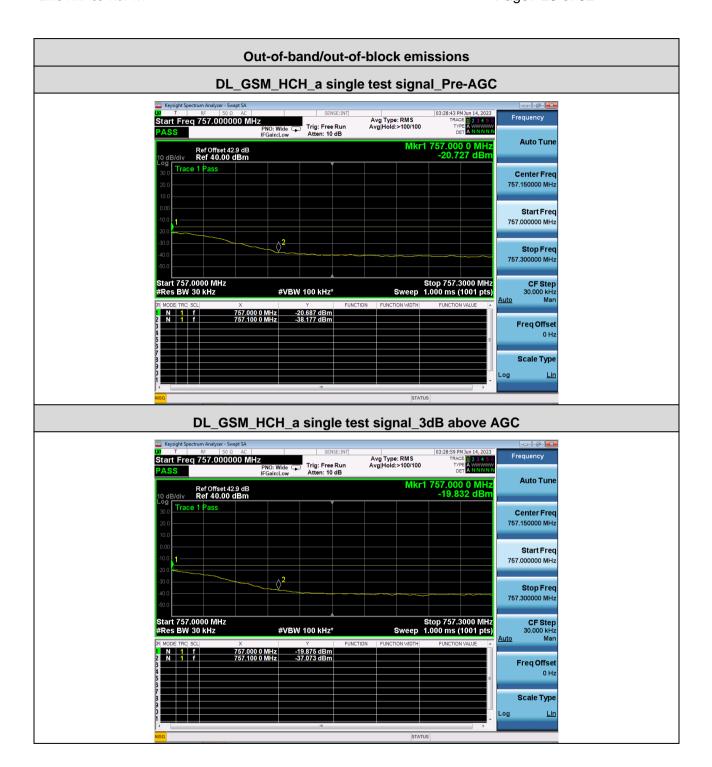


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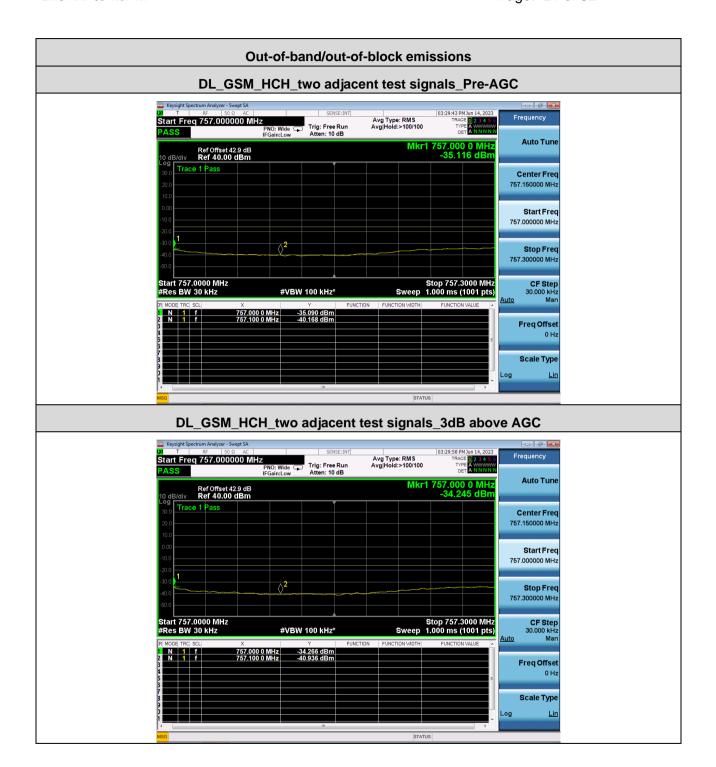


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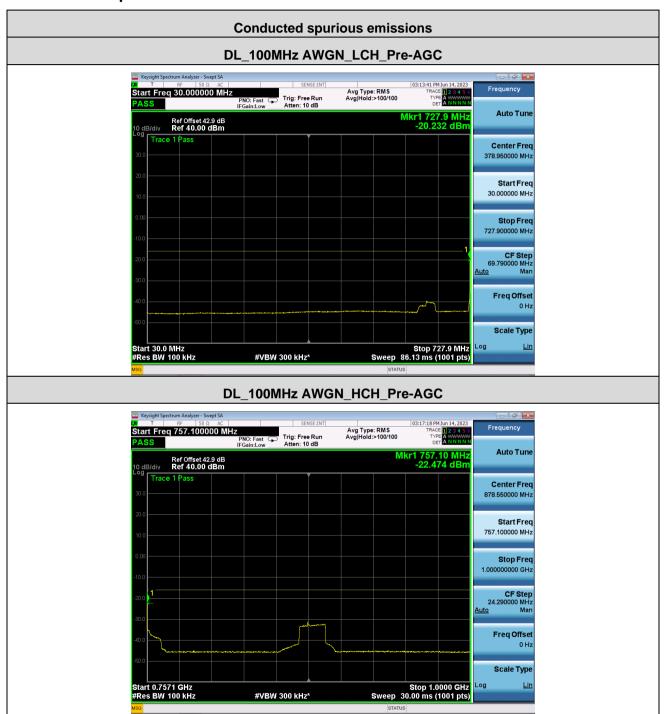
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5 Conducted Spurious emissions





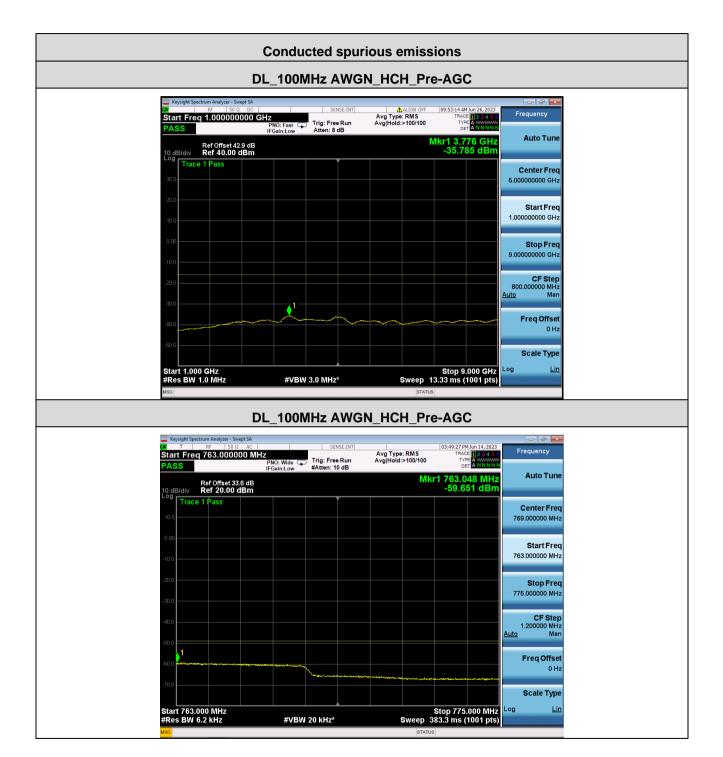
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Conducted spurious emissions

DL 100MHz AWGN HCH Pre-AGC



Remark:

FCC part 27.53 (c) (1) limit:

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 = 36dBm = 3.98W,

the limit = 36dBm - [43 + 10 log10 (3.98W)] dB = -13dBm

For 2x2 MIMO, ANT1 port was measured, and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.

FCC part 27.53 (c) (3) limit:

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

The Limit = $36dBm - [76 + 10 \log 10 (3.98W)] dB = -46dBm$,

For 2x2 MIMO, ANT1 port was measured, and the limit was showed -46dBm- 10lg(2)= -49dBm to determine the test result conveniently.

Part 27.53(g) limit:

For operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

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 = 36dBm = 3.98W,

the limit = $36dBm - [43 + 10 \log 10 (3.98W)] dB = -13dBm$

For 2x2 MIMO, ANT1 port was measured, and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. All modes (LCH/MCH/HCH, 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)					
		4.1MHz	TN	VL	14	0.0189	PASS			
		AWGN	TN	VH	15	0.0202	PASS			
	742.5	100MHz AWGN	TN	VL	23	0.0310	PASS			
DL	742.5		TN	VH	11	0.0148	PASS			
		GSM	TN	VL	18	0.0242	PASS			
			TN	VH	25	0.0337	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			
			VN	+50	18	0.0242	PASS			
			VN	+40	12	0.0162	PASS			
			VN	+30	9	0.0121	PASS			
		4 4 5 4 1 1	VN	+20	17	0.0229	PASS			
	742.5	4.1MHz AWGN	VN	+10	21	0.0283	PASS			
			VN	0	15	0.0202	PASS			
			VN	-10	21	0.0283	PASS			
			VN	-20	21	0.0283	PASS			
			VN	-30	15	0.0202	PASS			
			VN	+50	14	0.0189	PASS			
	742.5	100MHz AWGN	VN	+40	20	0.0269	PASS			
			VN	+30	25	0.0337	PASS			
			VN	+20	24	0.0323	PASS			
DL			VN	+10	11	0.0148	PASS			
			VN	0	16	0.0215	PASS			
			VN	-10	21	0.0283	PASS			
			VN	-20	25	0.0337	PASS			
			VN	-30	15	0.0202	PASS			
			VN	+50	11	0.0148	PASS			
			VN	+40	20	0.0269	PASS			
			VN	+30	23	0.0310	PASS			
			VN	+20	16	0.0215	PASS			
	742.5	GSM	VN	+10	10	0.0135	PASS			
			VN	0	17	0.0229	PASS			
			VN	-10	18	0.0242	PASS			
			VN	-20	16	0.0215	PASS			
			VN	-30	19	0.0256	PASS			



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7 Radiated Spurious emissions

Radiated Spurious emissions DL 4.1MHz AWGN MCH 30MHz-1GHz -120 -12030 Frequency (MHz) Frequency (MHz) race: (Discrete) race: (Discrete) Limit Read Correction Limit Read Correction Factor Level Limit Pol/Phase Factor Level Line Pol/Phase Freq Level Line MHz dB -62.62 -71.76 48.672 51.843 -78.21 -65.21 VERTICAL -75.78 -77.42 HORIZONTAL -75.70 -77.62 -5.05 -5.52 -13.00 -13.00 110.182 -8.98 -84.76 -79.97 -13.00 284.977 -2.55 -13.00 -66.97 HORIZONTAL 207.850 -83.14 -70.14 VERTICAL 423.540 -76.35 582.743 -76.69 716.682 -76.26 -76.35 -74.49 -72.62 -76.99 -75.91 -76.40 -0.25 1.49 4.82 -13.00 -13.00 -63.35 -61.49 HORIZONTAL HORIZONTAL 400.432 -77.24 -13.00 -64.24 VERTICAL -13.00 -59.62 HORIZONTAL

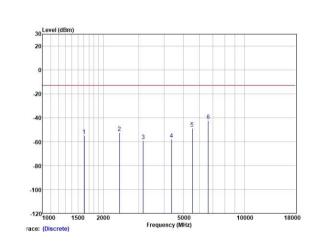




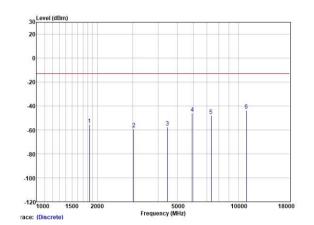
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



		Read C	orrection	on	Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	
	MHz	dBm	dB	dBm	dBm	dB	 	
1	1611.091	-60.07	5.32	-54.75	-13.00	-41.75	HORIZONTAL	
2	2407.703	-61.87	9.40	-52.47	-13.00	-39.47	HORIZONTAL	
3	3159.355	-61.45	2.27	-59.18	-13.00	-46.18	HORIZONTAL	
4	4367.058	-62.55	4.42	-58.13	-13.00	-45.13	HORIZONTAL	
5	5519.072	-63.31	14.34	-48.97	-13.00	-35.97	HORIZONTAL	
6	6621.375	-62.67	20.13	-42.54	-13.00	-29.54	HORIZONTAL	

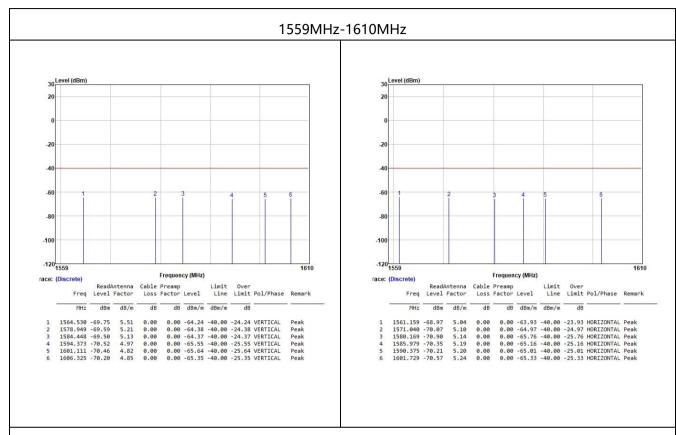


		Read (Correcti	on	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1834.878	-61.83	6.17	-55.66	-13.00	-42.66	VERTICAL
2	3034.063	-62.15	2.89	-59.26	-13.00	-46.26	VERTICAL
3	4456.315	-63.00	5.36	-57.64	-13.00	-44.64	VERTICAL
4	5915.516	-62.67	16.61	-46.06	-13.00	-33.06	VERTICAL
5	7326.267	-65.79	17.76	-48.03	-13.00	-35.03	VERTICAL
6	10980.470	-68.51	24.77	-43.74	-13.00	-30.74	VERTICAL





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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 in this report.

-- End of Appendix--



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