



No. 1302215.7

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 17.10.19

SAMPLE DESCRIPTION:
Maroon woven fabric – Mainline Flax
Nominal Composition – 70% Wool 30% Flax
Nominal Weight – 550g per lineal metre, 393gsm
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

1 of 8

AS/NZS 3837-1998 – Method of Test for Heat and Smoke Release Rates for Materials and Products using Oxygen Consumption Calorimeter

Note: This test was sub-contracted (Test No. 19-006151).

	Specimens			
	1	2	3	Mean
Average Heat Release:	18.9	19.5	17.8	18.7 kW/m ²
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	46.9	30.6	43.6	40.4 m ² /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				2

Test Orientation: Horizontal


	Specimens			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /s
Time to Sustained Flaming	15	13	12	13 sec.
Test Duration	540	542	556	546 sec.
Peak Heat Release After Ignition	166.3	182.4	171.3	173.3 kW/m ²
Average Heat at 60 s	76.6	82.0	72.1	76.9 kW/m ²
Average Heat at 180 s	29.7	32.3	28.2	30.1 kW/m ²
Average Heat at 300 s	22.3	24.4	21.1	22.6 kW/m ²
Total Heat Released	9.9	10.3	9.7	10.0 MJ/m ²
Ave. Effective Heat of Combustion	5.3	5.5	5.3	5.4 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	92.0	90.0	87.6	89.9 g
Mass at Sustained Flaming	91.4	89.8	87.6	89.6 g
Mass Remaining	76.8	74.8	72.8	74.8 g
Mass Percentage Pyrolysed	16.5	16.9	16.9	16.8%
Mass Loss	1.9	1.9	1.8	1.9 kg/m ²
Average Rate of Mass Loss	3.6	3.5	3.3	3.5 g/m ² .s

Additional Observations: None
Difficulties Encountered During Testing: None

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L A Greer
Signatory


C. Judan
Signatory

27/11/2019

New Zealand Wool Testing Authority Ltd

Cnr Bridge & Lever Streets, PO Box 12065

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These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.


Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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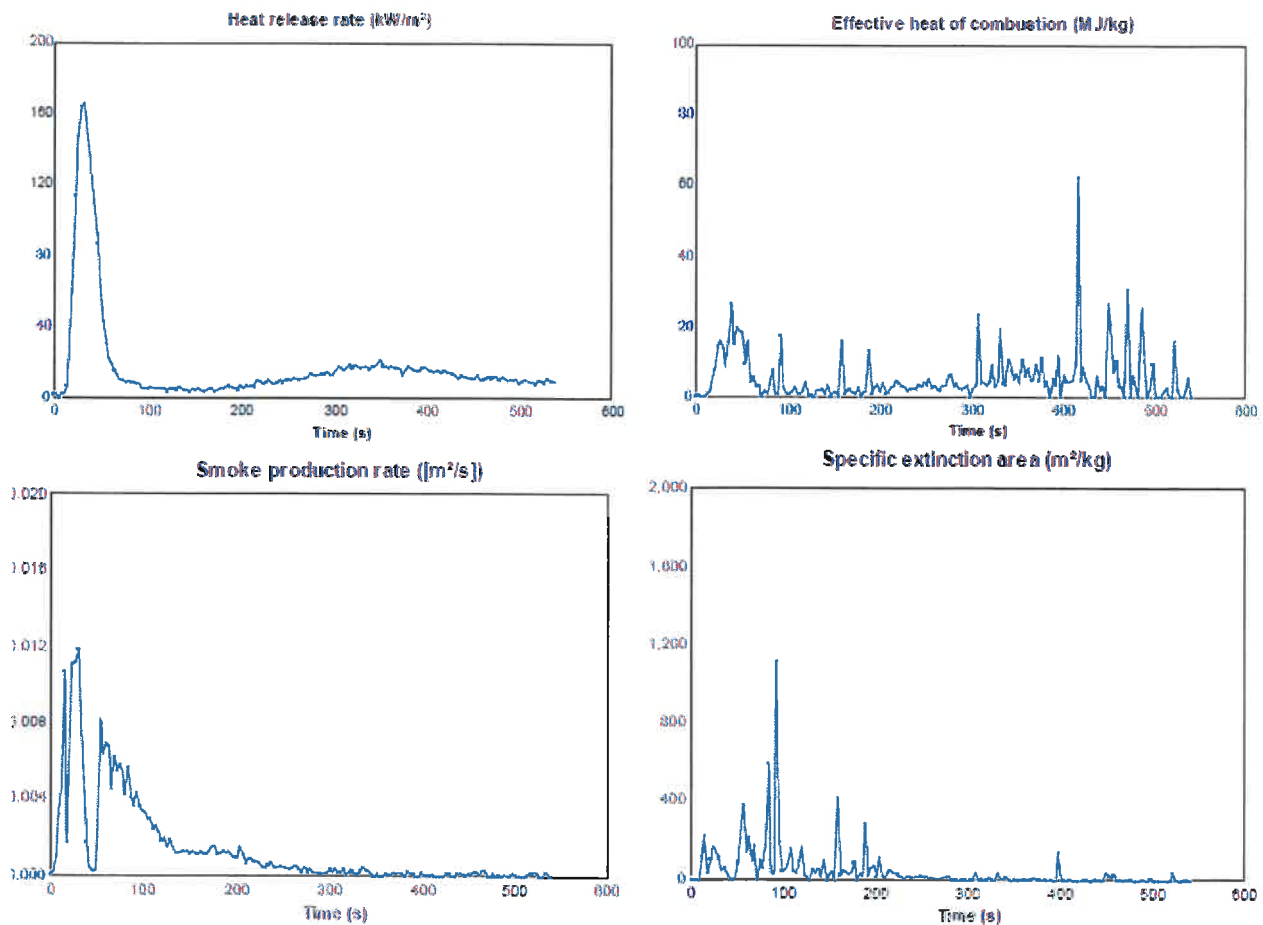
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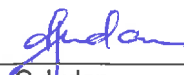
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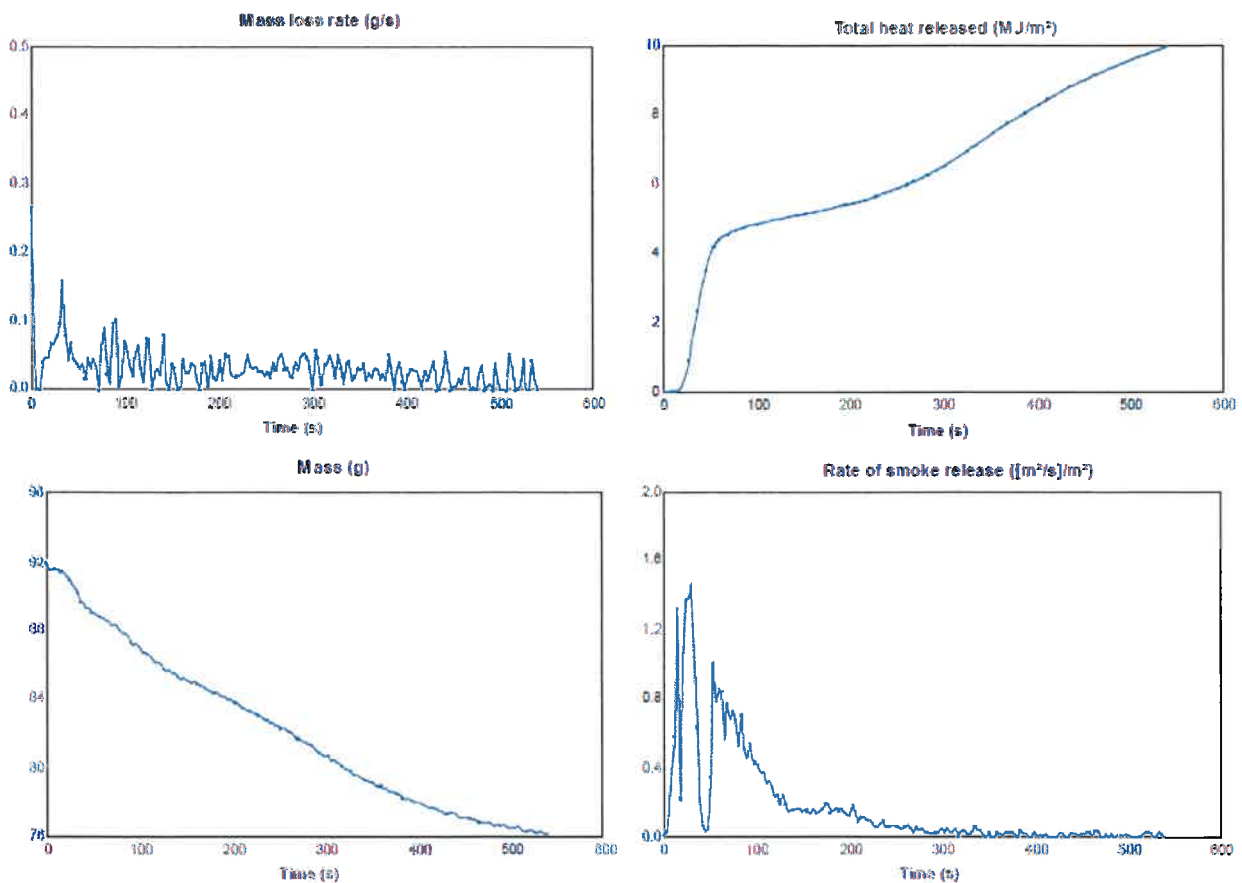
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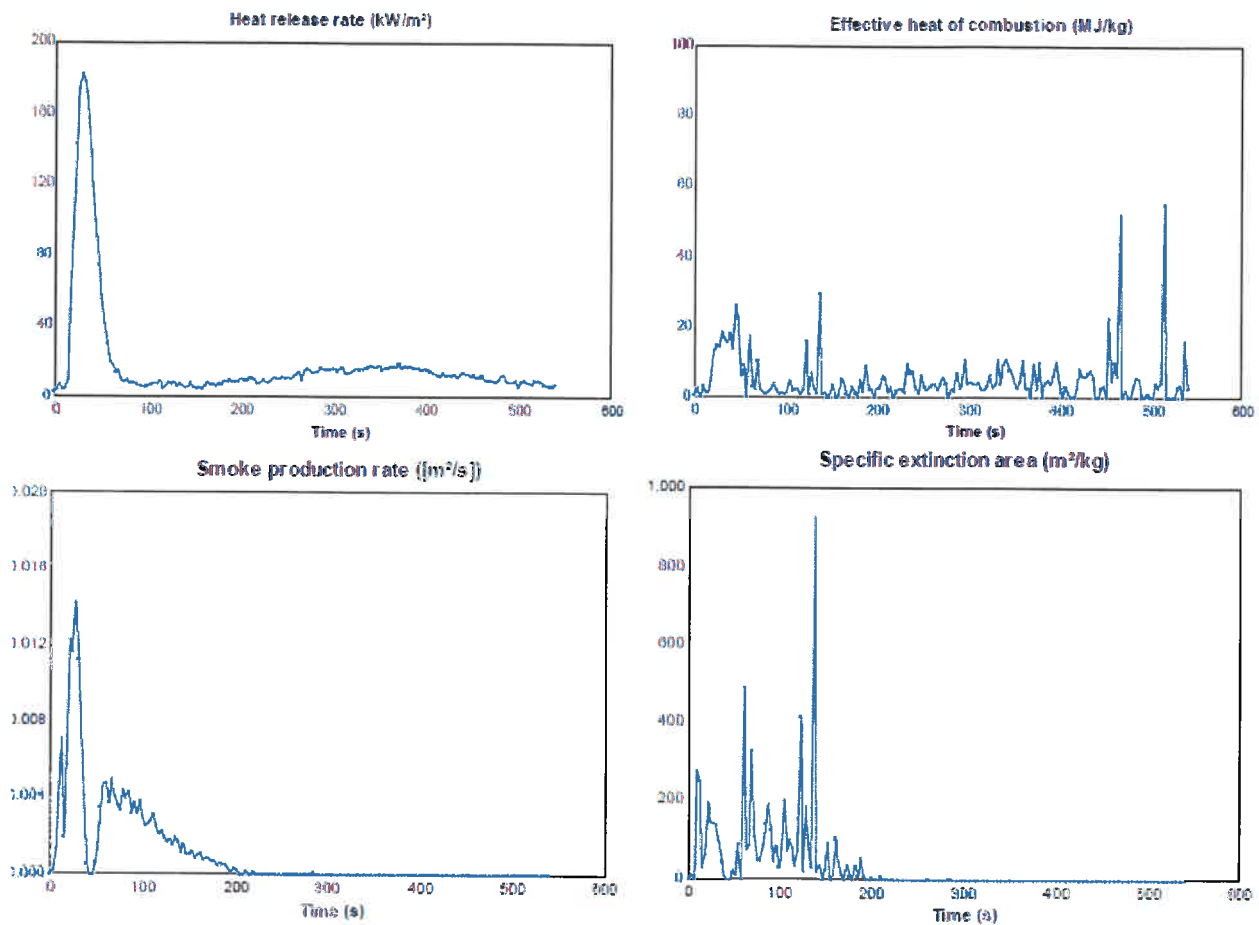
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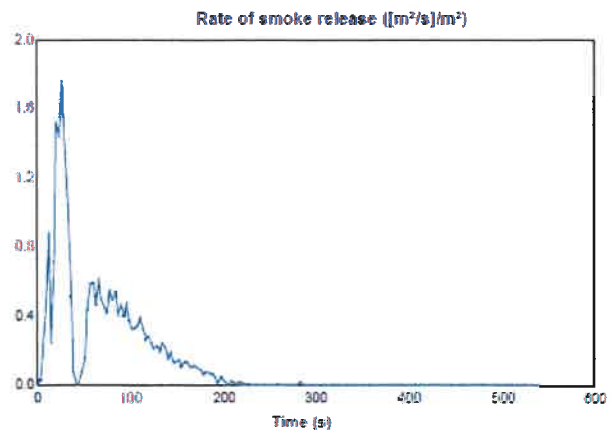
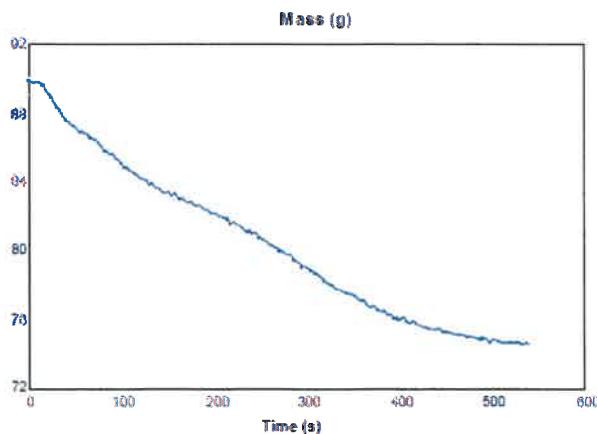
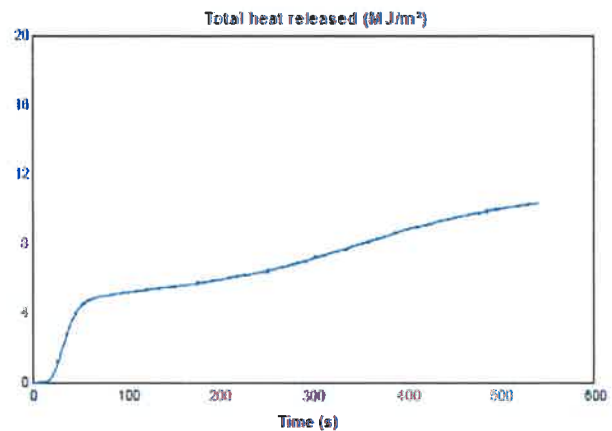
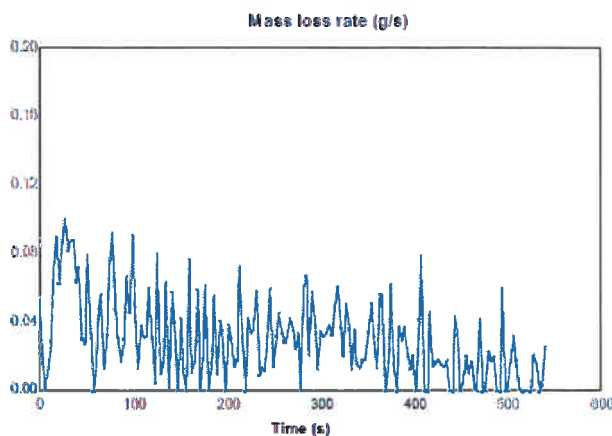
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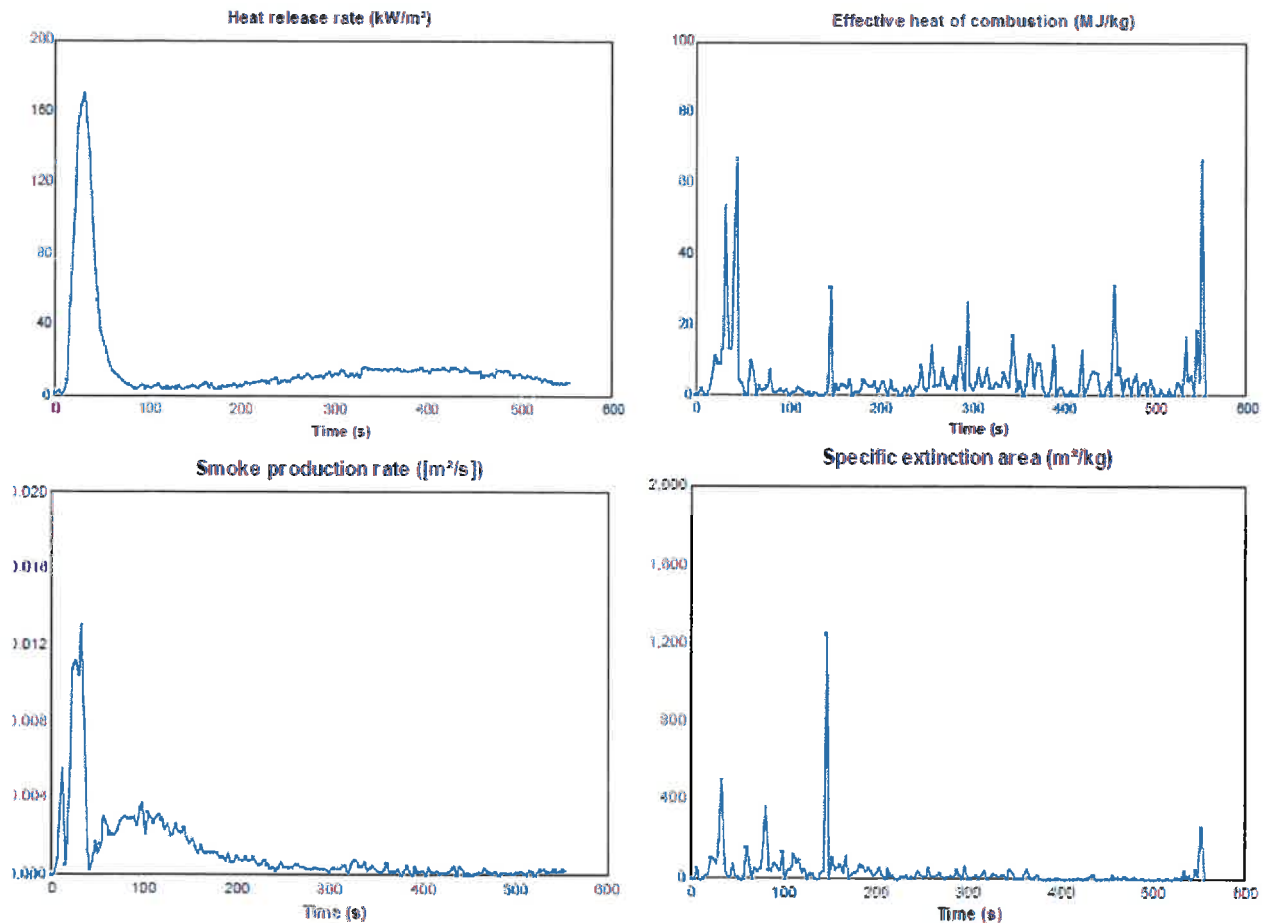
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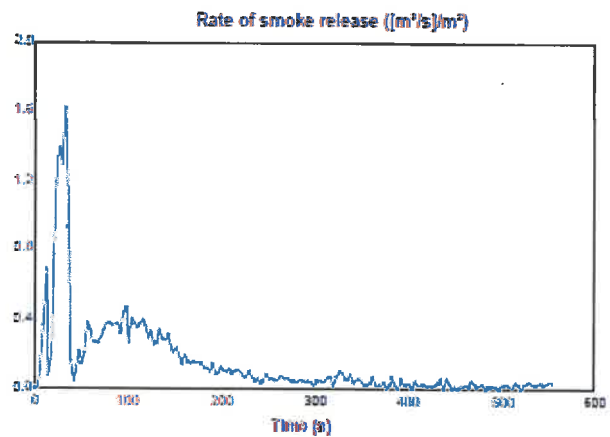
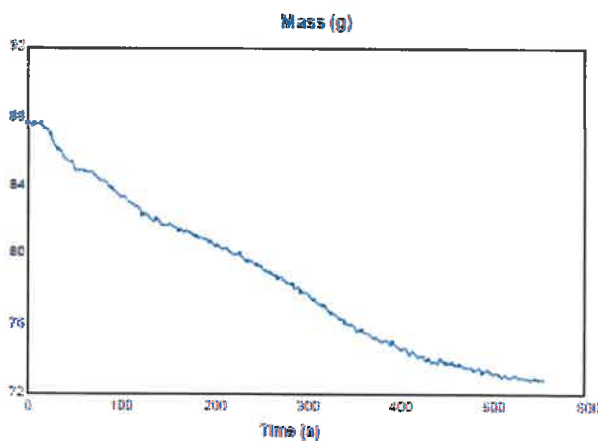
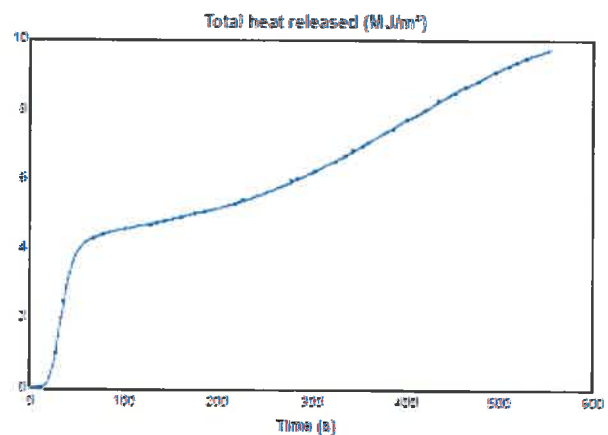
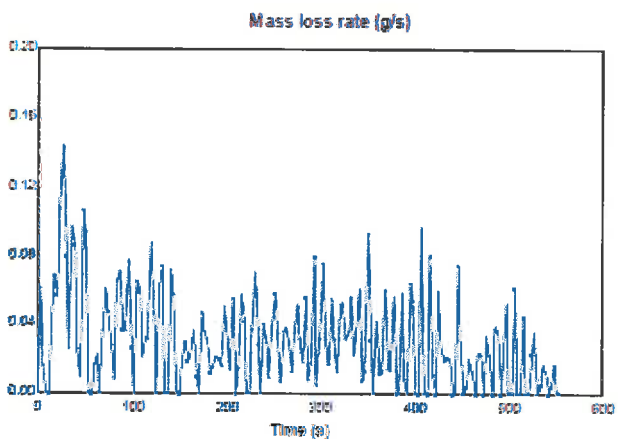
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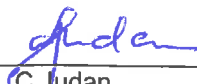
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