



No. 1322397.9

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 18.3.20

SAMPLE DESCRIPTION:
Black colour woven fabric - Oceanic
Nominal Composition – 100% Post Consumer Recycled Polyester
Nominal Weight – 696g/lineal metre
End Use – Upholstery & Panel

Client Order No.:

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ISO 5660.1-2015 - Reaction to Fire Tests – Heat release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Note: This test was sub-contracted (Test Number 20-001700).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate	10.9	11.5	10.5	11.0 kW/m ²
Average Specific Extinction Area	73.8	85.7	96.2	85.2 m ² /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				1S

Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /sec.
Time to Sustained Flaming	43	52	52	49 sec.
Test Duration	1843	1852	1852	1849 sec.
Peak Heat Release After Ignition	142.4	162.6	143.9	149.6 kW/m ²
Average Heat at 180 s	57.6	60.9	58.4	58.9 kW/m ²
Average Heat at 300 s	42.2	43.9	42.6	42.9 kW/m ²
Total Heat Released	19.7	20.7	19.0	19.8 MJ/m ²
Ave. Effective Heat of Combustion	9.2	9.9	9.2	9.4 MJ/kg
Initial Thickness	8	8	8	8 mm
Initial Mass	89.6	88.7	88.6	89.0 g
Mass at Sustained Flaming	89.2	87.9	88.1	88.4 g
Mass Remaining	72.3	71.8	71.9	72.0 g
Mass Loss	2138.4	2089.1	2064.0	2097.1 g/m ²
Average Rate of Mass Loss	1.2	1.2	1.2	1.2 g/m ² .s

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Signatory


C Judan
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16/04/2020

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Total Smoke Production (non-flaming phase)	4.5	9.4	8.9	7.6 m ² /m ²
Total Smoke Production (flaming phase)	179.1	182.7	199.9	187.2 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	183.6	192.1	208.8	194.8 m ² /m ²
Specimen Surface Area	0.00810	0.00810	0.00810	- m ²
C-Factor (Calibration Constant)	0.039996	0.039996	0.039996	-

Additional Observation: Nil
Difficulties Encountered During Testing: Nil

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.

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


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

Note: All calculations are based on ignition + 30 minutes.

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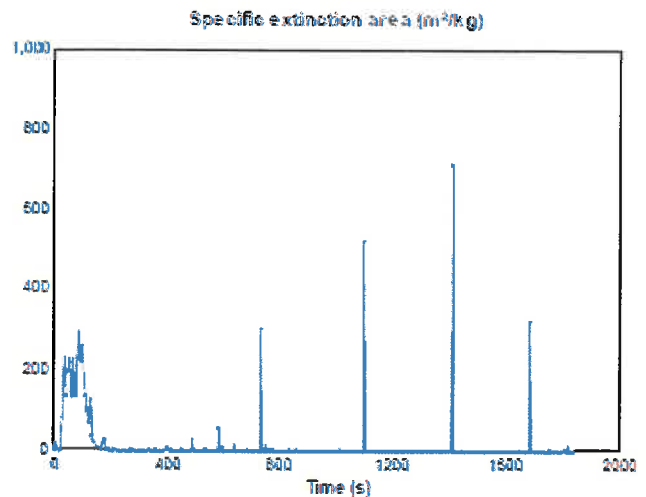
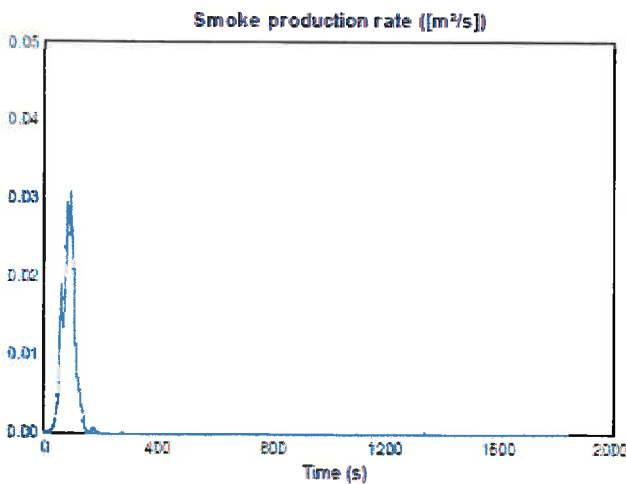
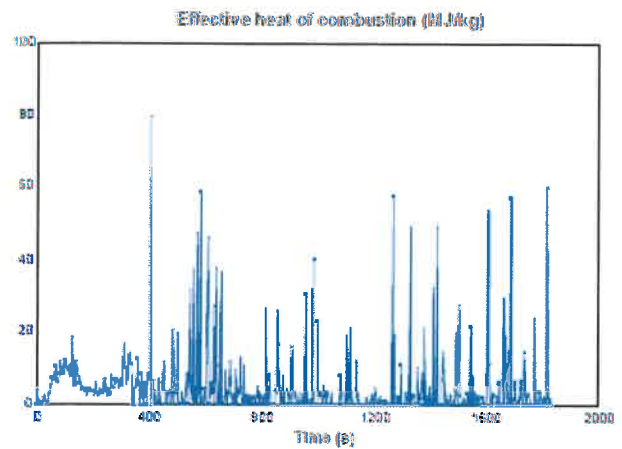
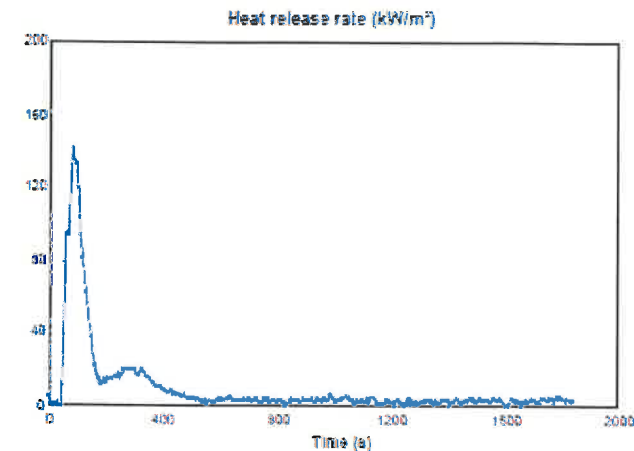
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Specimen : 1



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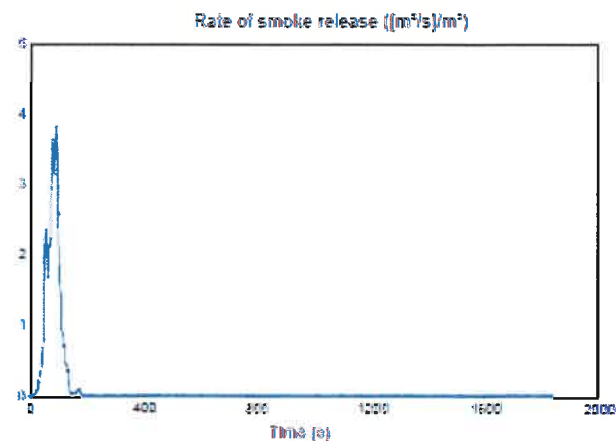
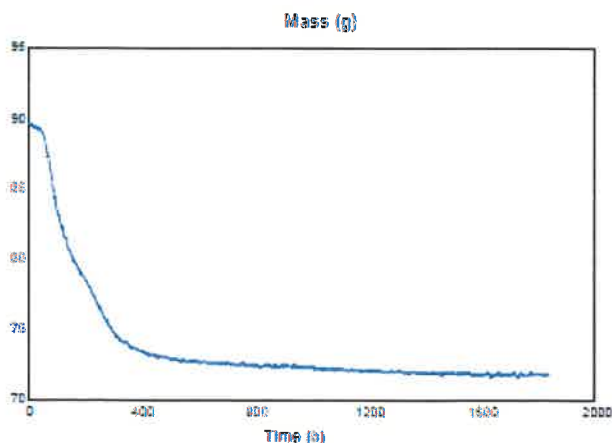
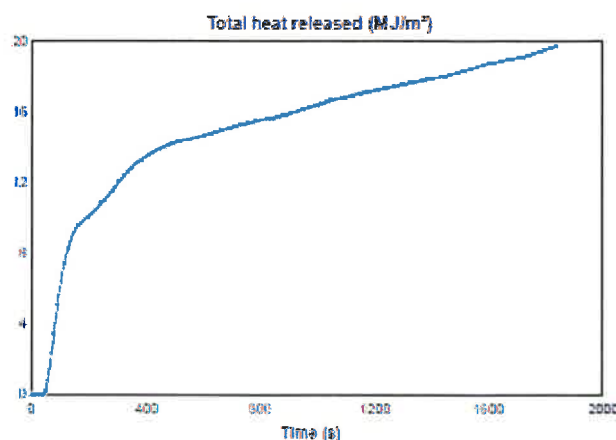
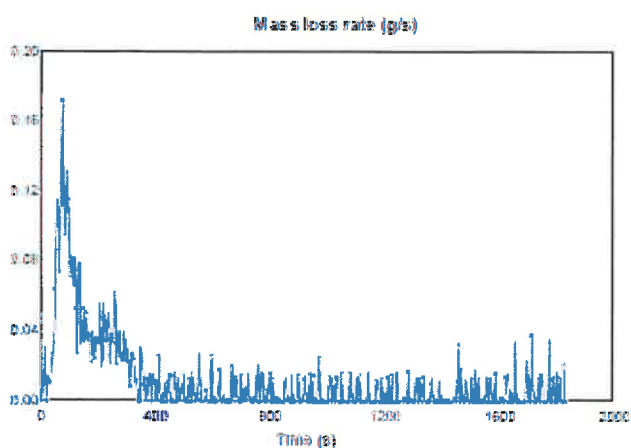
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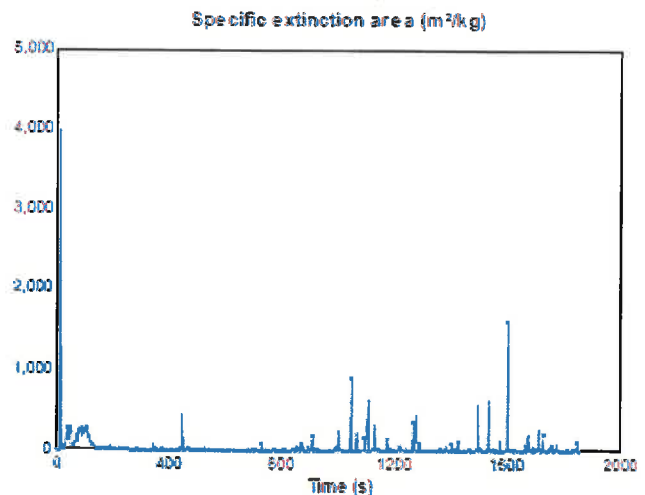
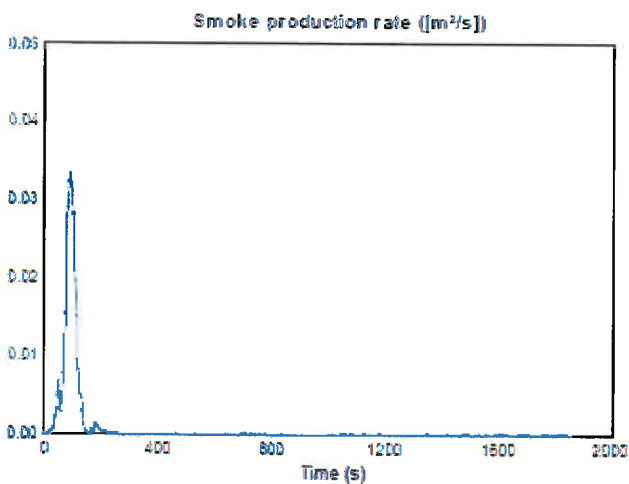
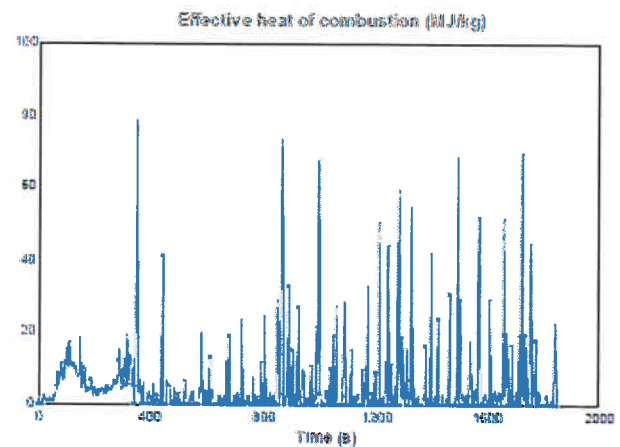
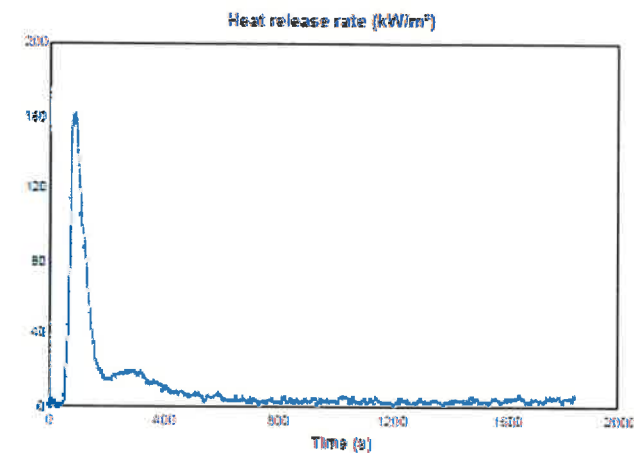
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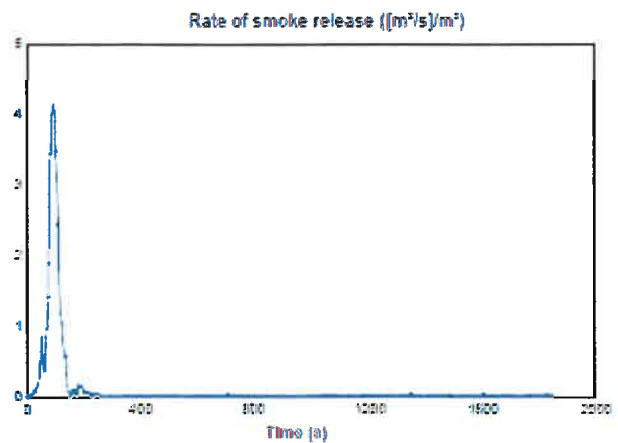
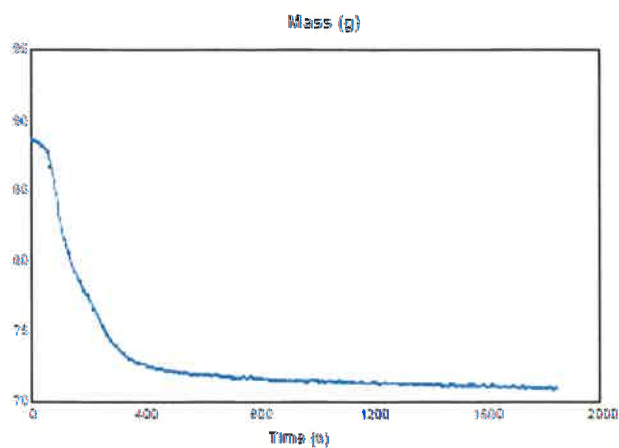
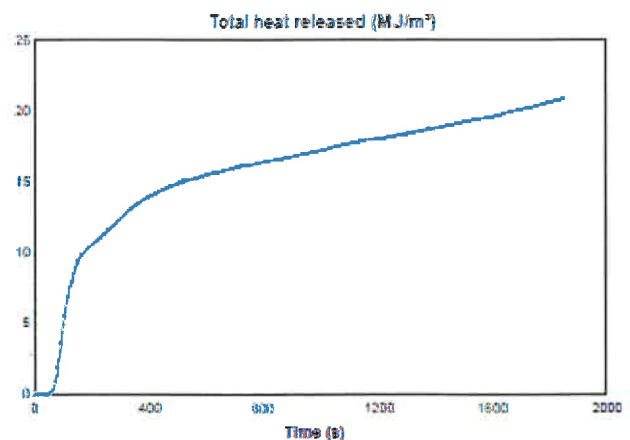
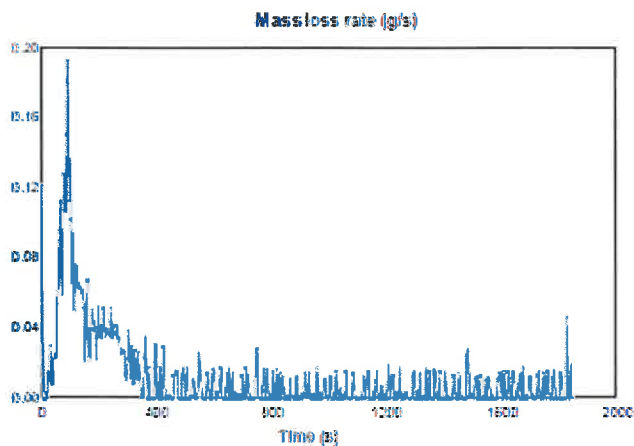
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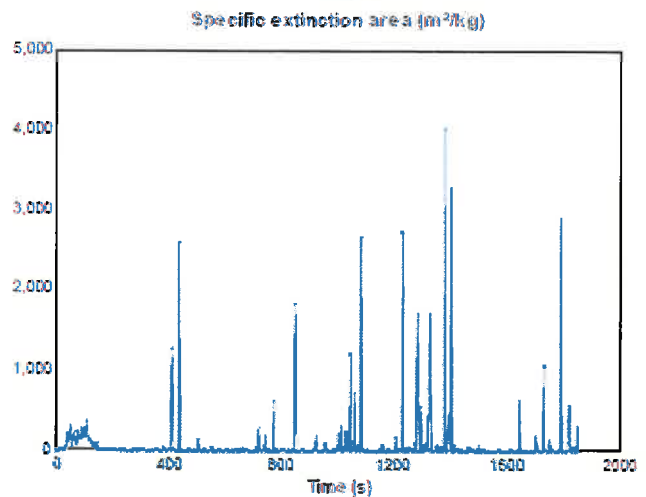
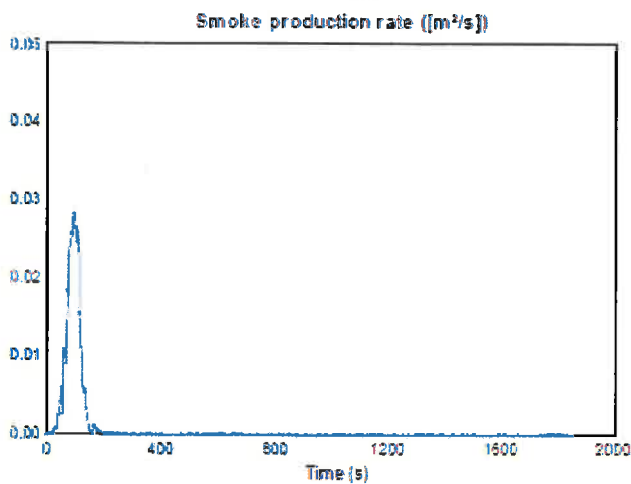
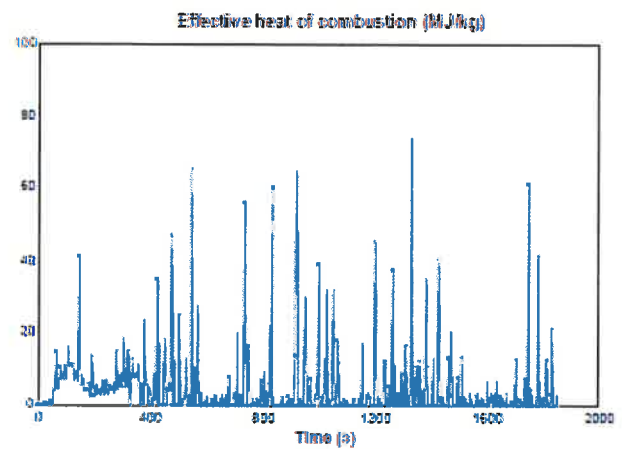
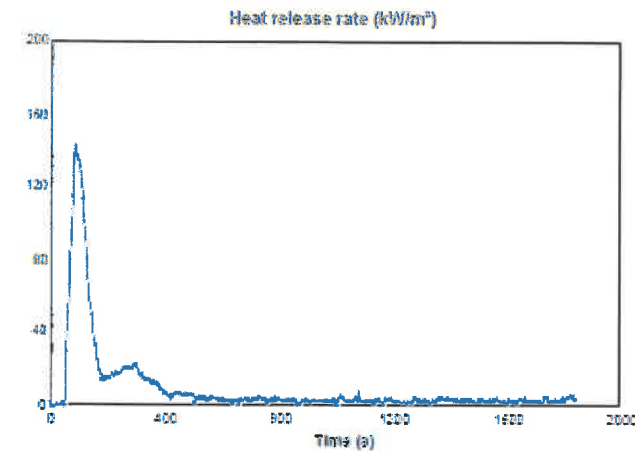
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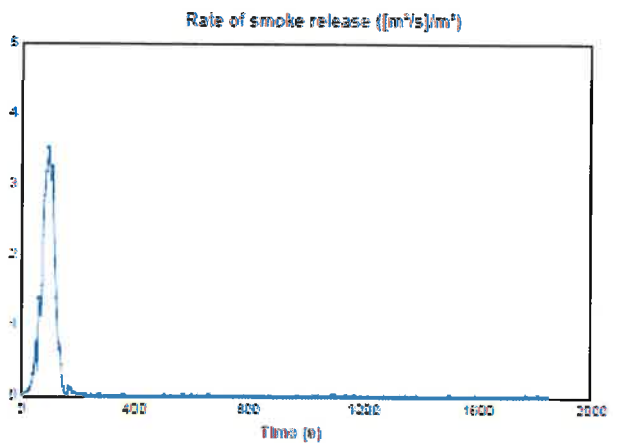
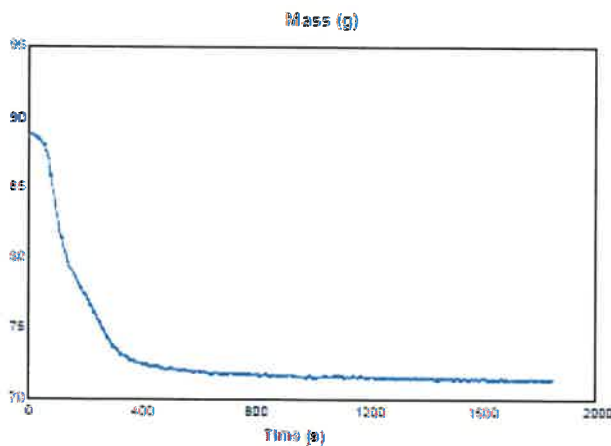
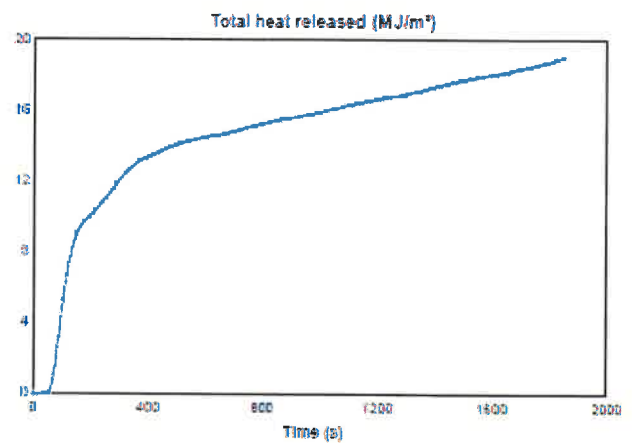
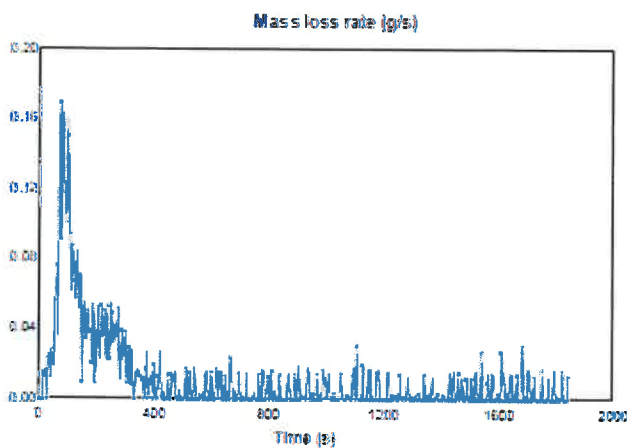
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