



## No. 1217656.6

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 12.2.18

SAMPLE DESCRIPTION:  
Grey non-woven fabric – Sonus  
Nominal composition – 72% Polyester 18% Nylon 10% Rayon  
Nominal weight – 220 grams per lineal metre  
End use – Panel

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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)

	Specimens			Mean
	1	2	3	
Average Heat Release	3.6	10.2	9.6	7.8kW/m <sup>2</sup>
Average Specific Extinction Area	20.9	20.0	18.6	19.8m <sup>2</sup> /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				1S

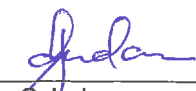
Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	82	136	115	111 sec.
Test Duration	1882	1936	1915	1911 sec.
Peak Heat Release After Ignition	87.7	61.9	59.2	69.6 kW/m <sup>2</sup>
Average Heat at 60 s	54.0	40.6	46.8	47.1 kW/m <sup>2</sup>
Average Heat at 180 s	25.1	22.9	25.0	24.3 kW/m <sup>2</sup>
Average Heat at 300 s	18.7	21.2	20.8	20.2 kW/m <sup>2</sup>
Total Heat Released	6.5	18.6	17.5	14.2 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	3.8	11.7	8.3	7.9 MJ/kg
Initial Thickness	8.0	8.0	8.0	8.0 mm
Initial Mass	88	92.5	93.1	91.2 g
Mass Remaining	72.3	73.3	71.8	72.4 g
Mass Percentage Pyrolysed	17.9	20.8	22.9	20.5%
Mass Loss	15.7	19.2	21.3	18.8 g
Average Rate of Mass Loss	0.9	0.9	1.2	1.0 g/m <sup>2</sup> .s

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L A Greer  
Signatory

  
C Judan  
Signatory

23/02/2018

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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.

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.

This test was carried out by a sub-contracted laboratory.

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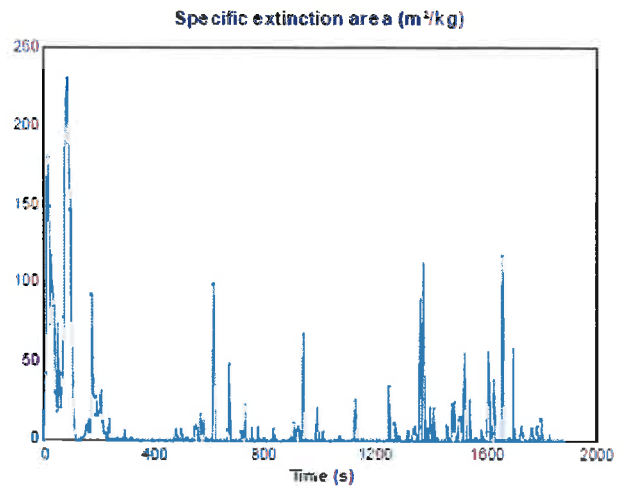
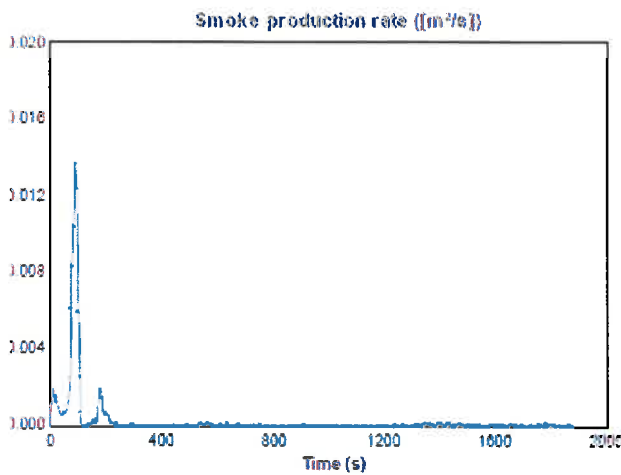
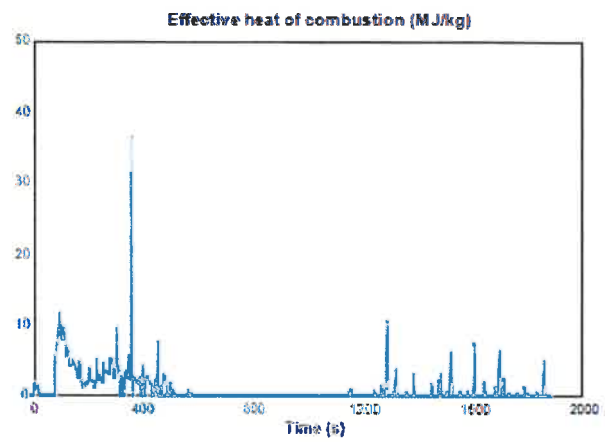
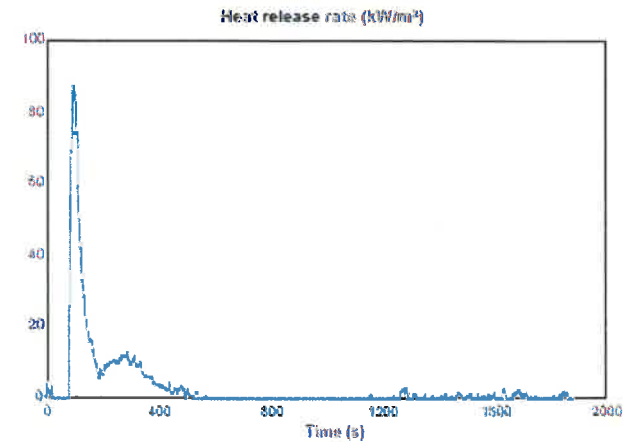
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Specimen : 1



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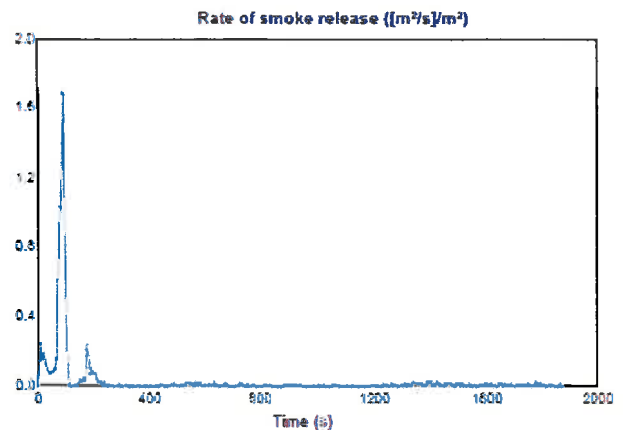
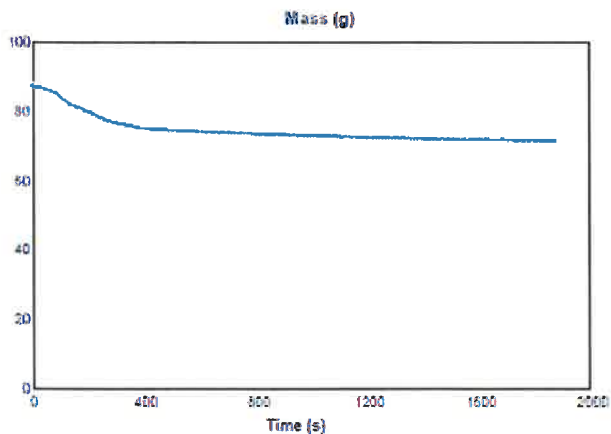
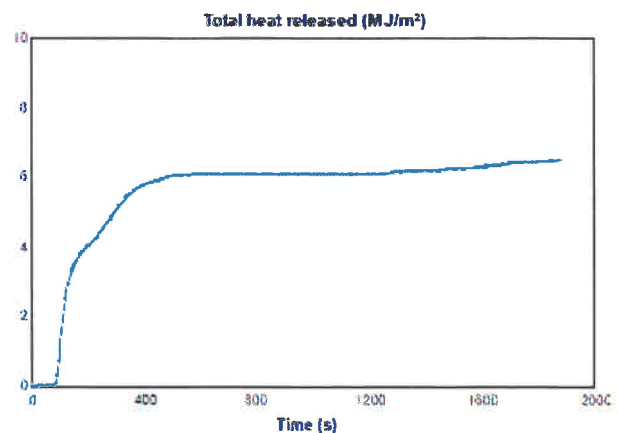
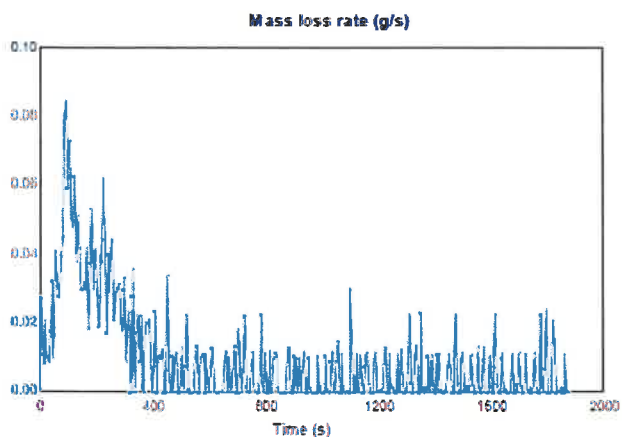
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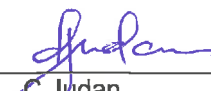
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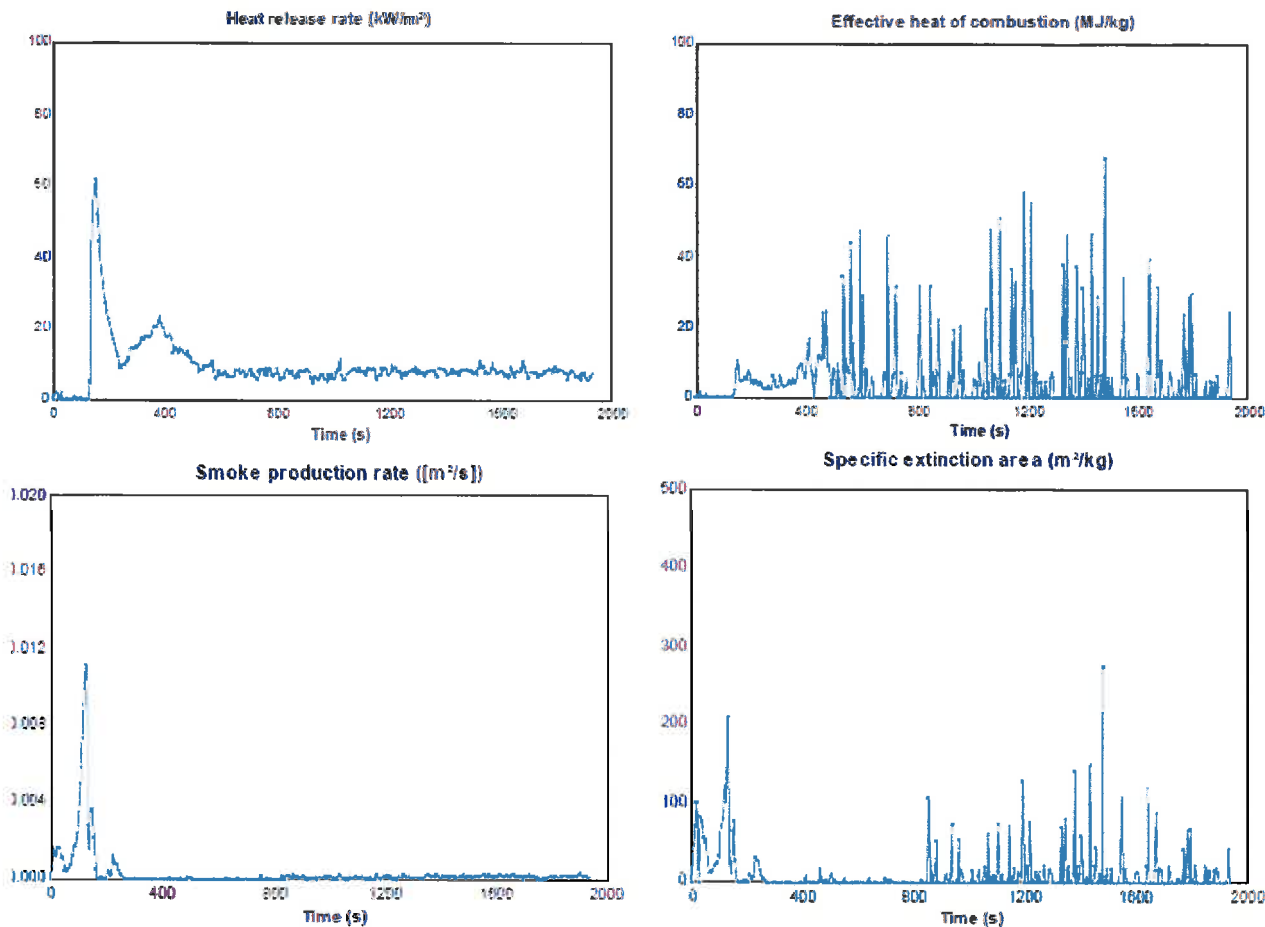
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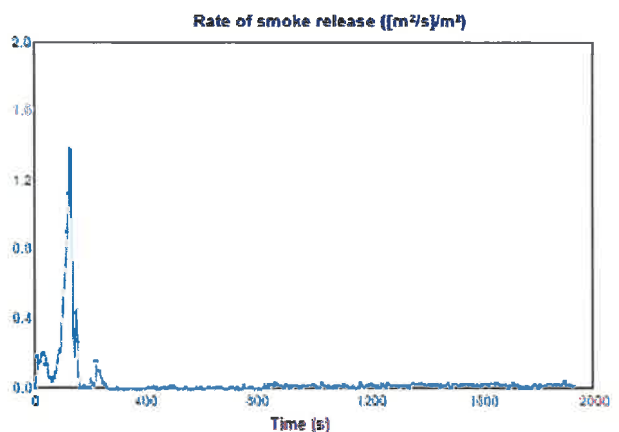
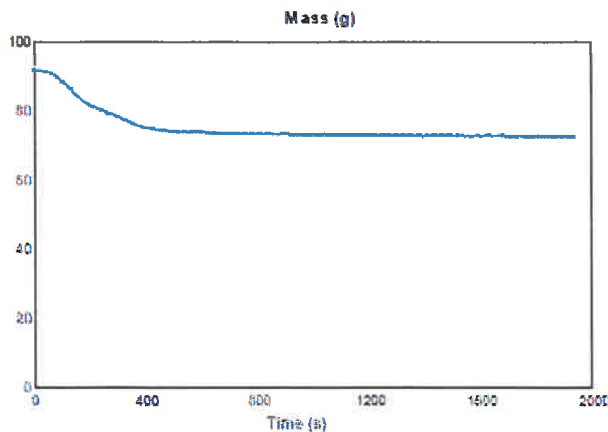
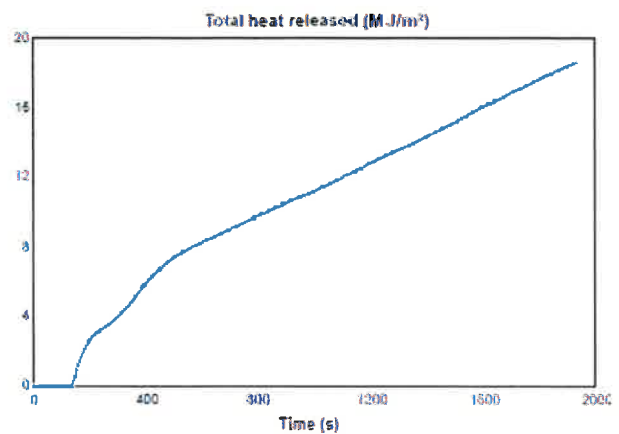
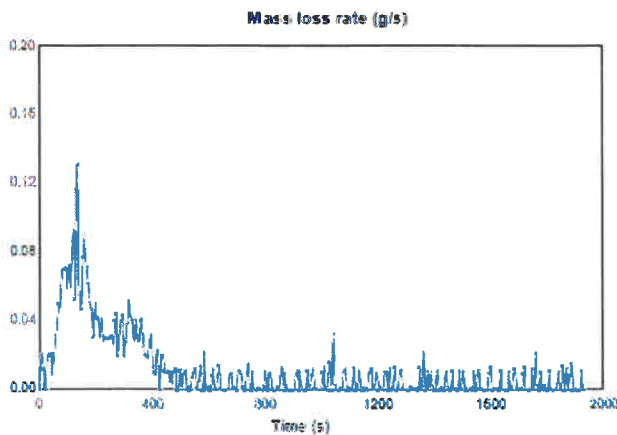
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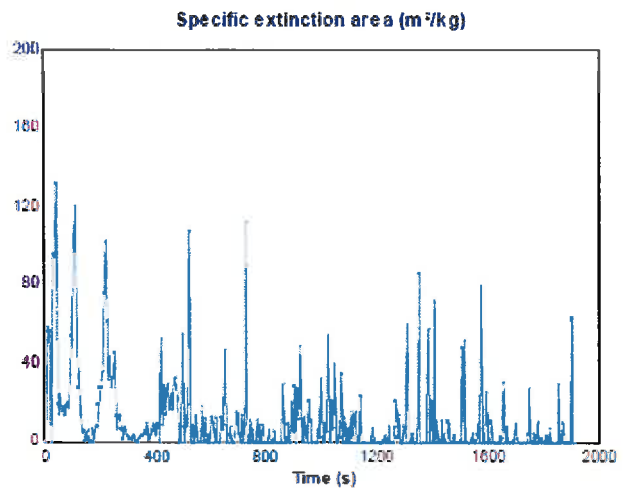
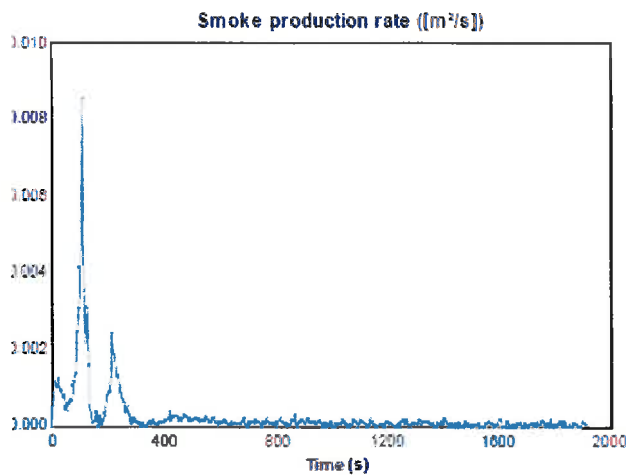
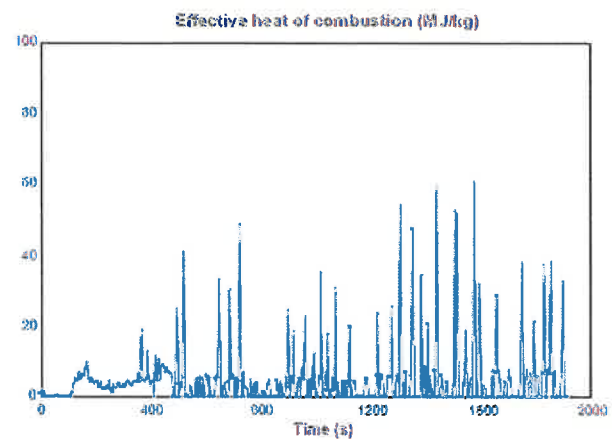
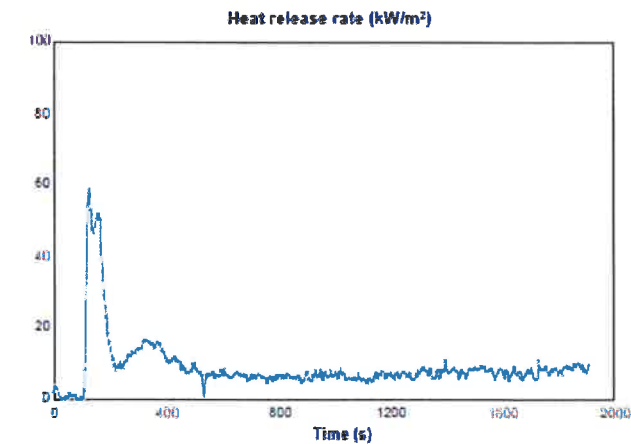
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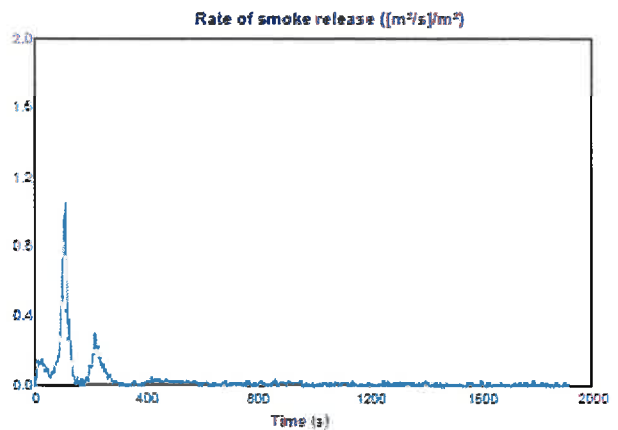
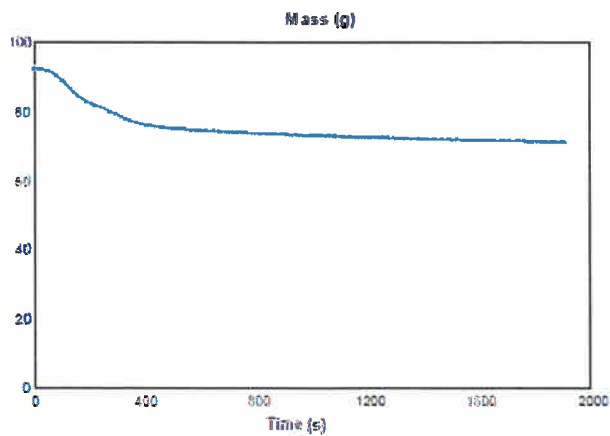
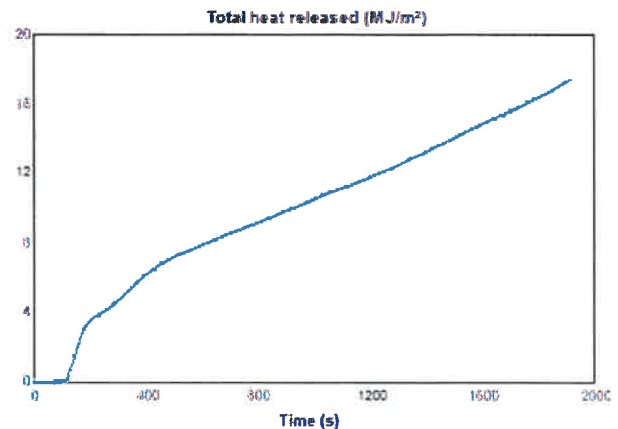
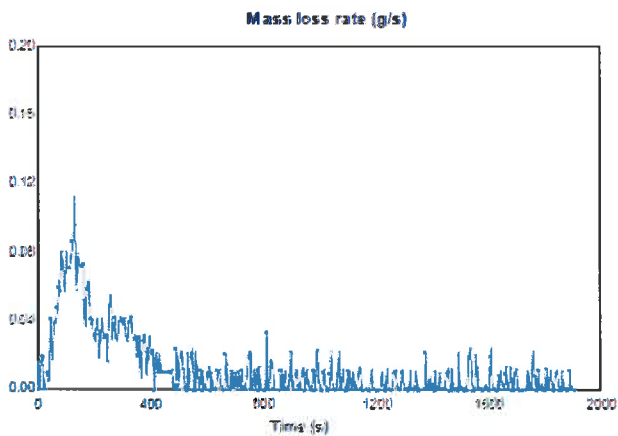
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