

No. 1461647.8B

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 17.5.23
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Beige upholstery fabric – Forum Nominal Composition – 100% Polyester Nominal Weight – 621 grammes per lineal meter	
Client Order No.:	Client Reference:	1 of 9

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 No. 23-001877).

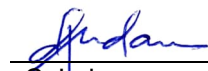
	Specimens			
	1	2	3	Mean
Average Heat Release Rate	8.8	9.5	9.4	9.2 kW/m ²
Average Specific Extinction Area	91.6	58.1	75.2	74.9 m ² /kg
Group Number Classification				2S
(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				

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 /sec.
Time to Sustained Flaming	29	41	40	37 sec.
Test Duration	1829	1841	1840	1837 sec.
Peak Heat Release After Ignition	219.5	213.5	204.6	212.5 kW/m ²
Average Heat at 180 s	62.6	61.6	60.0	61.4 kW/m ²
Average Heat at 300 s	40.6	40.3	39.3	40.1 kW/m ²
Total Heat Released	16.2	17.3	17.0	16.8 MJ/m ²
Ave. Effective Heat of Combustion	7.1	7.5	7.4	7.3 MJ/kg
Initial Thickness	11.1	11.1	11.1	11.1 mm
Initial Mass	64.4	67	66.6	66.0 g
Mass at Sustained Flaming	64.2	66.7	66.2	65.7 g
Mass Remaining	46.1	48.4	48.1	47.5 g
Mass Loss	2260.2	2293.4	2283.7	2279.1 g/m ²
Average Rate of Mass Loss	1.3	1.3	1.3	1.3 g/m ² .s

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Key Technical Person

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Total Smoke Production (non-flaming phase)	6.8	11.0	13.0	10.3 m ² /m ²
Total Smoke Production (flaming phase)	216.1	149.9	172.8	179.6 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	222.9	160.9	185.8	189.9 m ² /m ²
C-Factor (Calibration Constant)	0.041224	0.041224	0.041224	-

Additional Observation: None
Difficulties Encountered During Testing: None

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.

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 10mm thick plasterboard prior to testing.

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

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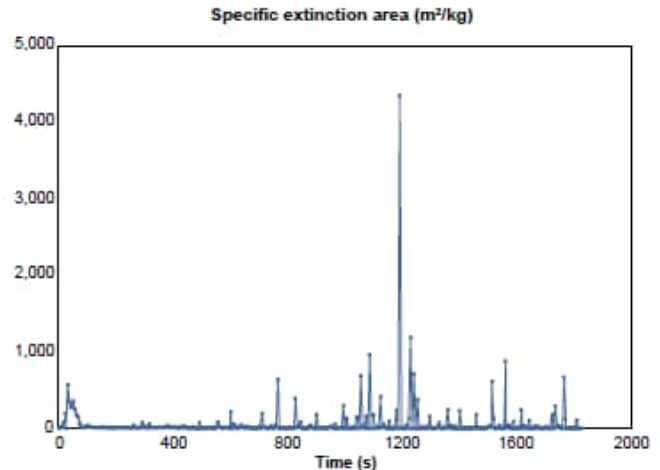
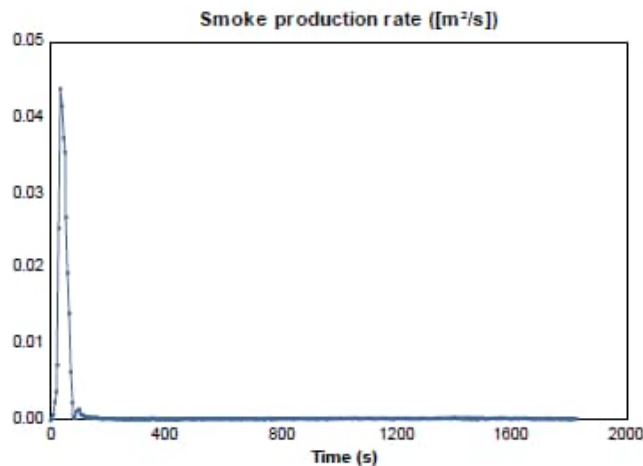
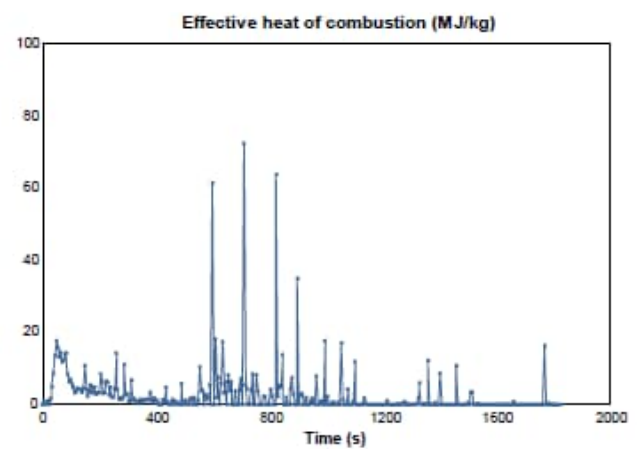
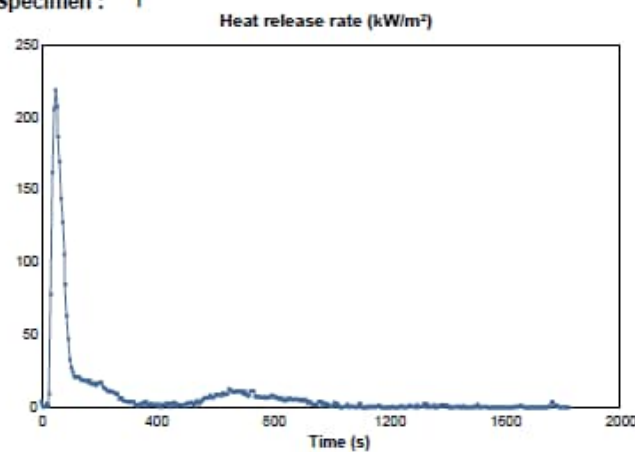
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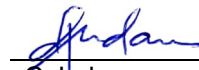
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Specimen : 1



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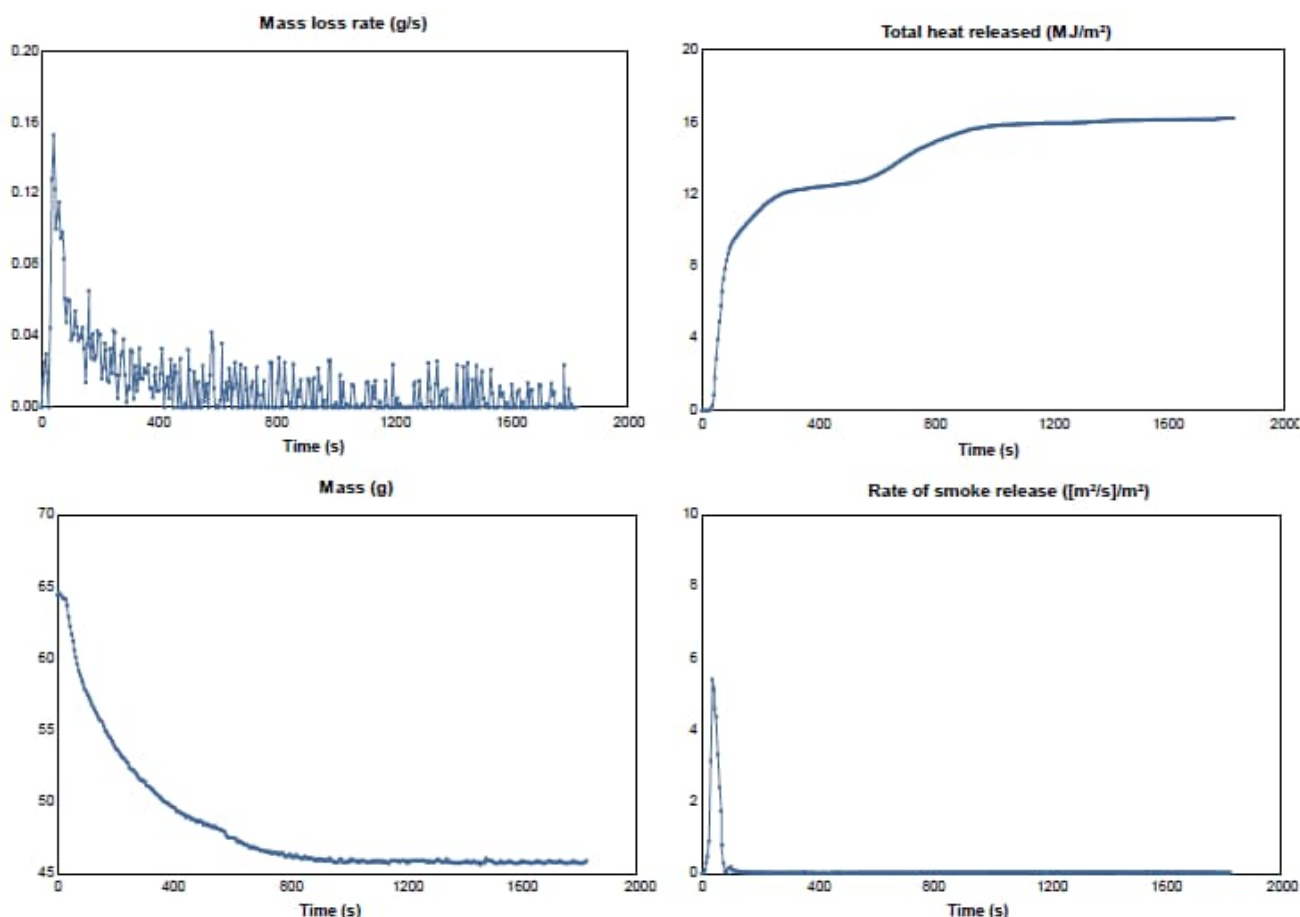
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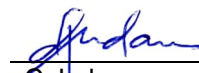
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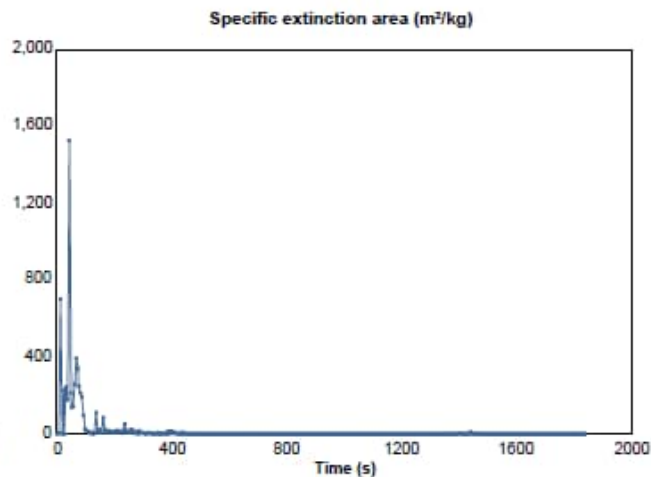
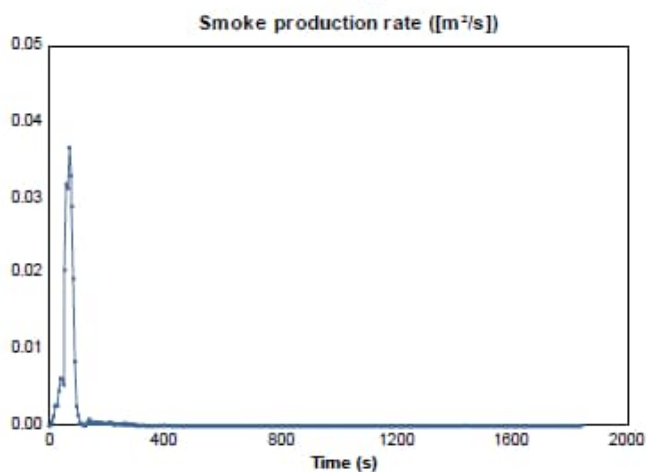
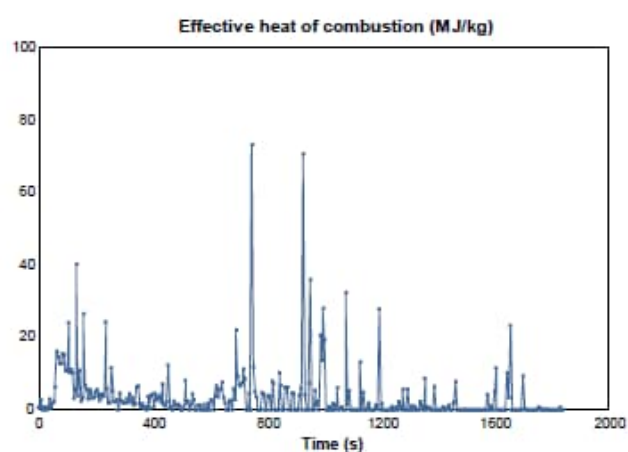
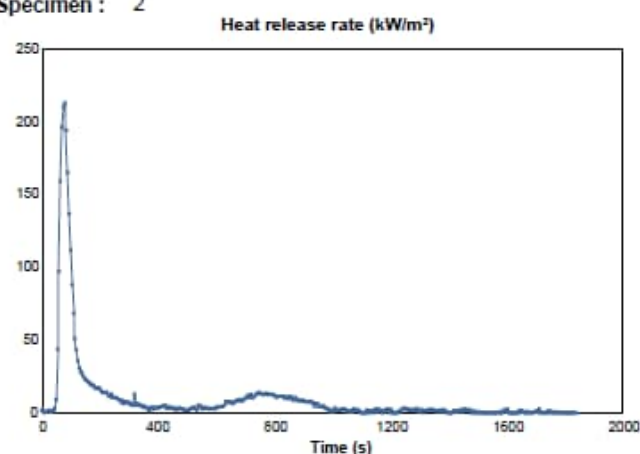
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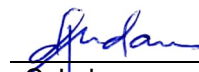
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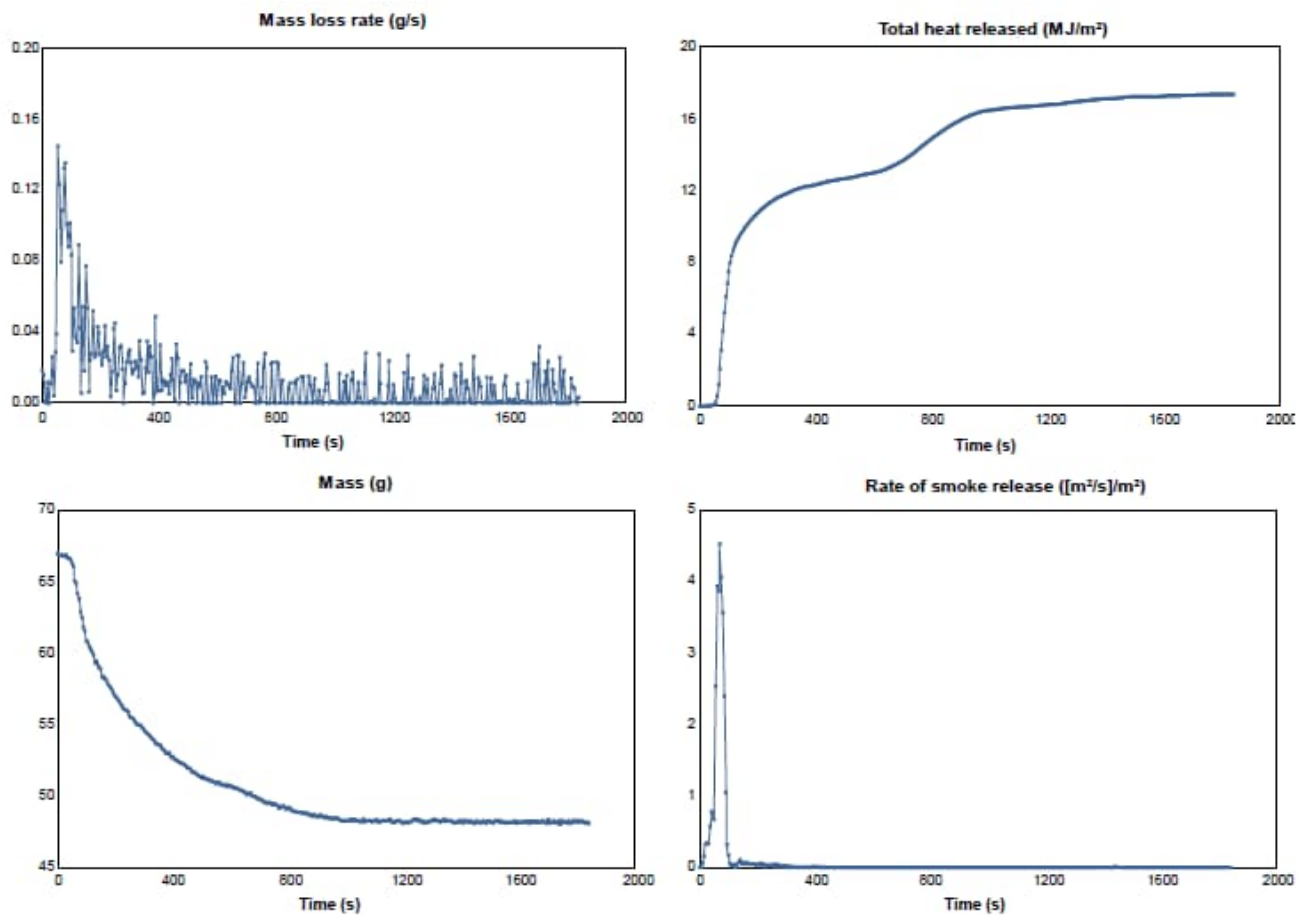
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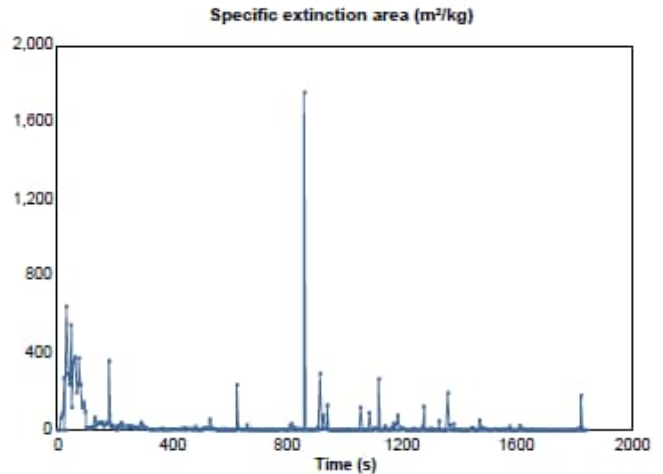
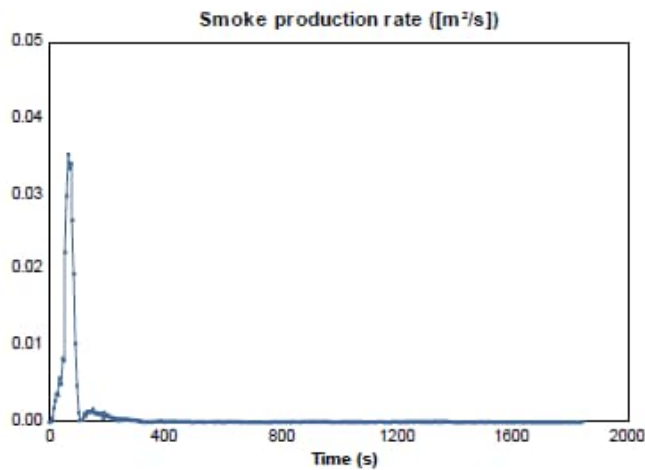
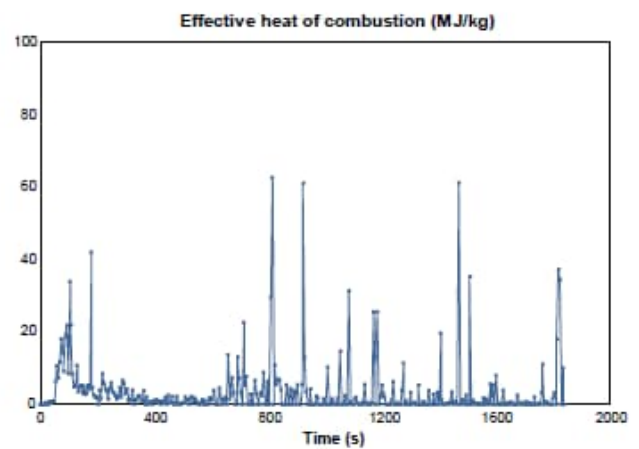
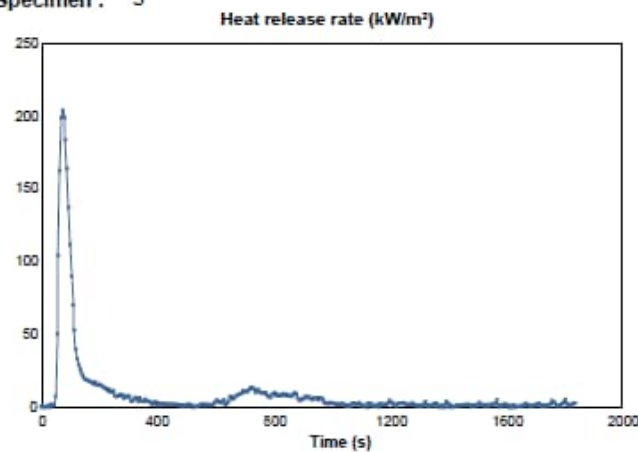
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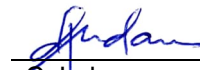
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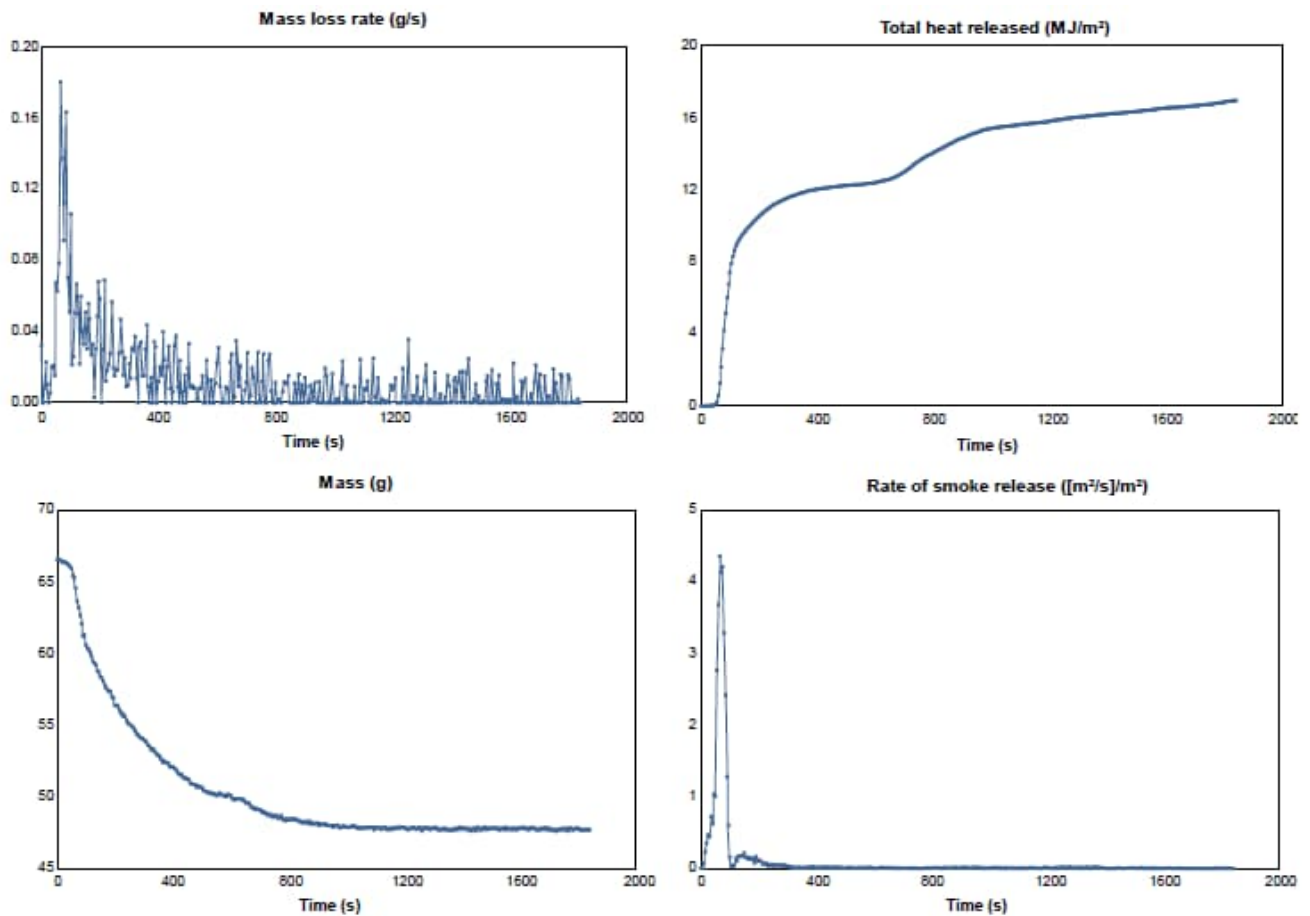
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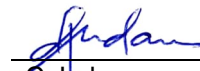
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