

Initiator+ Alstra Peptide Sequence Summary

User: Marco

Date: 2016-05-23 15:40

Vial: 10 mL

Resin: Rink amide ChemMatrix

Resin Functionality: Amide

Loading: 0.50 mmol/g

Resin Functionality Molecular Weight: 17.0 g/mol

Molecular Weight: 3228.0 g/mol

Product Weight: 0.323 g

Quantity: 0.200 g

Scale: 0.1 mmol

Notes: Champegfr0223NT

Sequence:

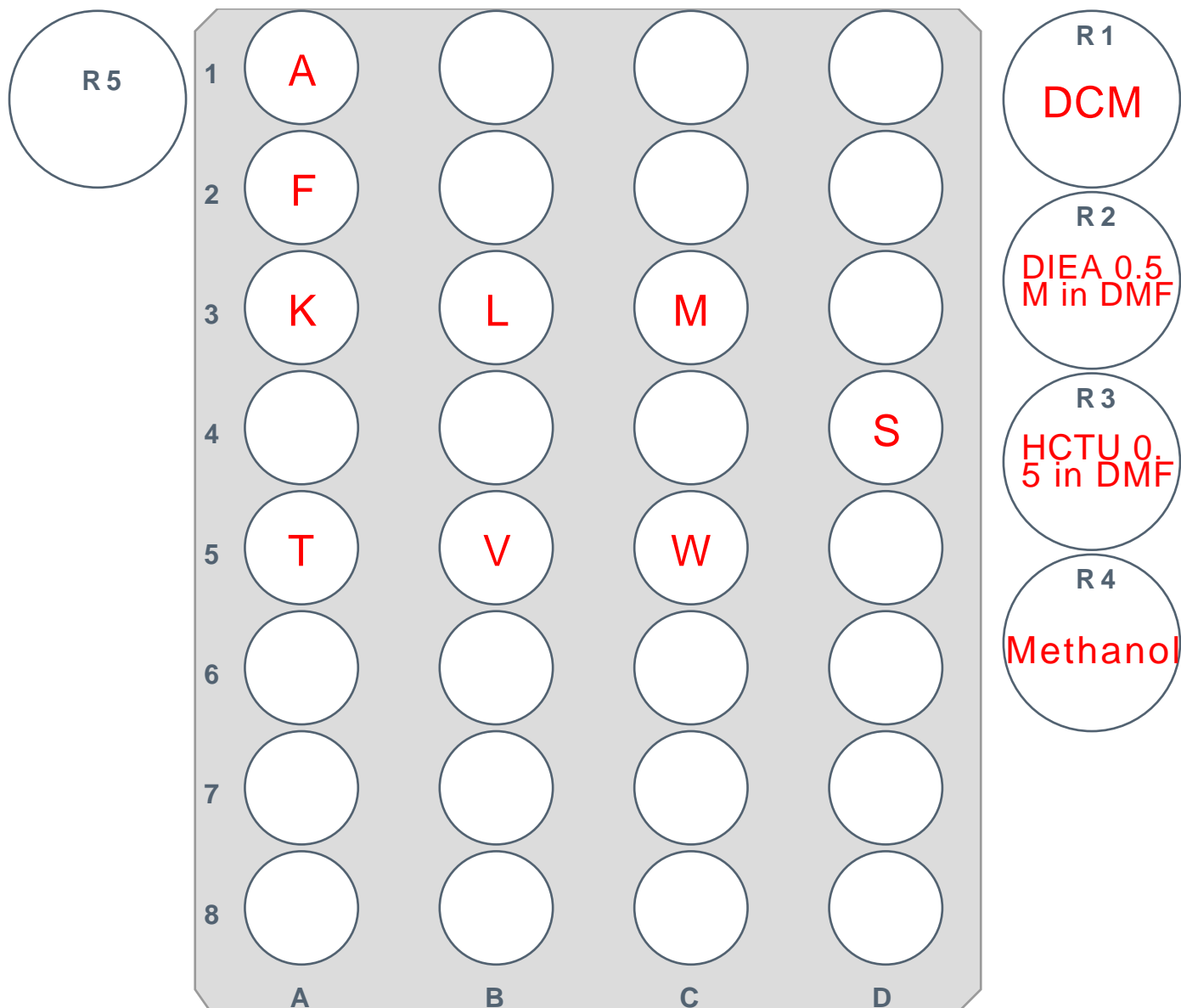
K K K S L V T A L L M A L L V L L L F L F W W L L K K # 1



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Calculation Table



Pos	Acid	Chemical Name	Equivalents	Mol Mass [g/mol]	Mass [g]	Volume [mL]	Dissolve Volume [mL]	Concentration [mol/L]	Total Volume [mL]
A:1	A	Fmoc-Ala-OH	5.0	311.3	0.638		3.597	0.5	4.1
A:2	F	Fmoc-Phe-OH	5.0	387.4	0.794		3.462	0.5	4.1
A:3	K	Fmoc-Lys(Boc)-OH	5.0	468.5	2.366		8.173	0.5	10.1
A:5	T	Fmoc-Thr(tBu)-OH	5.0	397.5	0.417		1.764	0.5	2.1
B:3	L	Fmoc-Leu-OH	5.0	353.4	3.905		18.984	0.5	22.1

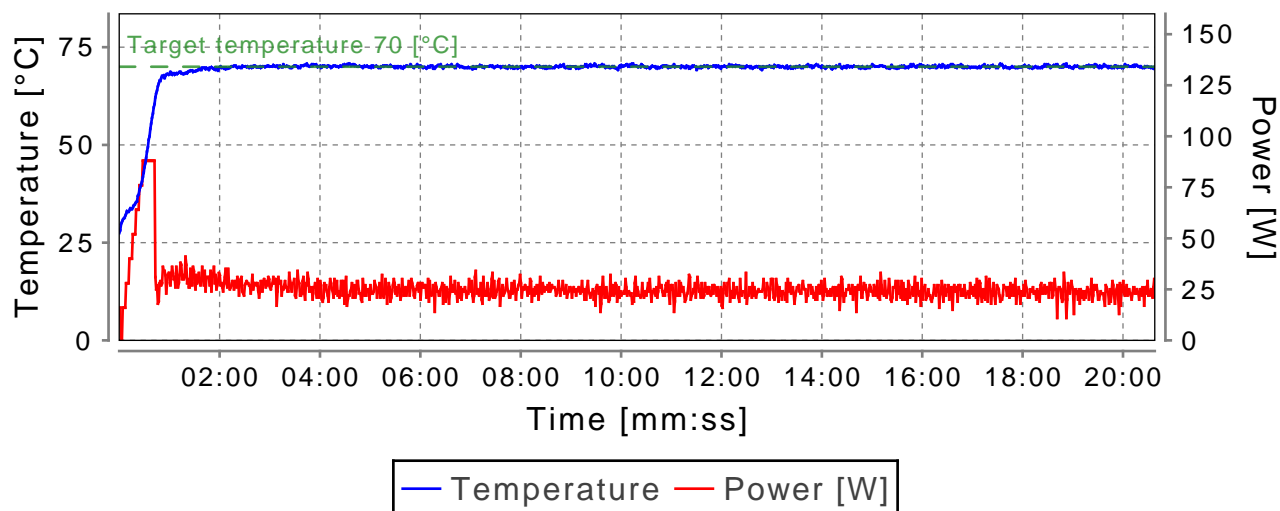
Pos	Acid	Chemical Name	Equivalents	Mol Mass [g/mol]	Mass [g]	Volume [mL]	Dissolve Volume [mL]	Concentration [mol/L]	Total Volume [mL]
B:5	V	Fmoc-Val-OH	5.0	339.4	0.696		3.547	0.5	4.1
C:3	M	Fmoc-Met-OH	5.0	371.5	0.39		1.788	0.5	2.1
C:5	W	Fmoc-Trp(Boc)-OH	5.0	526.6	1.08		3.215	0.5	4.1
D:4	S	Fmoc-Ser(tBu)-OH	5.0	383.4	0.403		1.777	0.5	2.1
R1		DCM				0.0			20.0
R2		DIEA 0.5M in DMF	10.0	129.2		9.841	103.159	0.5	113.0
R3		HCTU 0.5 in DMF	4.98	413.7	12.159		58.784	0.5	58.784
R4		Methanol				0.0			20.0
S1		DMF				0.0			1432.9
S2		DMF2				0.0			145.3
S3		20% MePiperidine in DMF	90.0	99.2		63.475	205.325	2.0	268.8

Cycle No: 1

K (Fmoc-Lys(Boc)-OH)

Swelling DMF, 2016-05-23 15:40

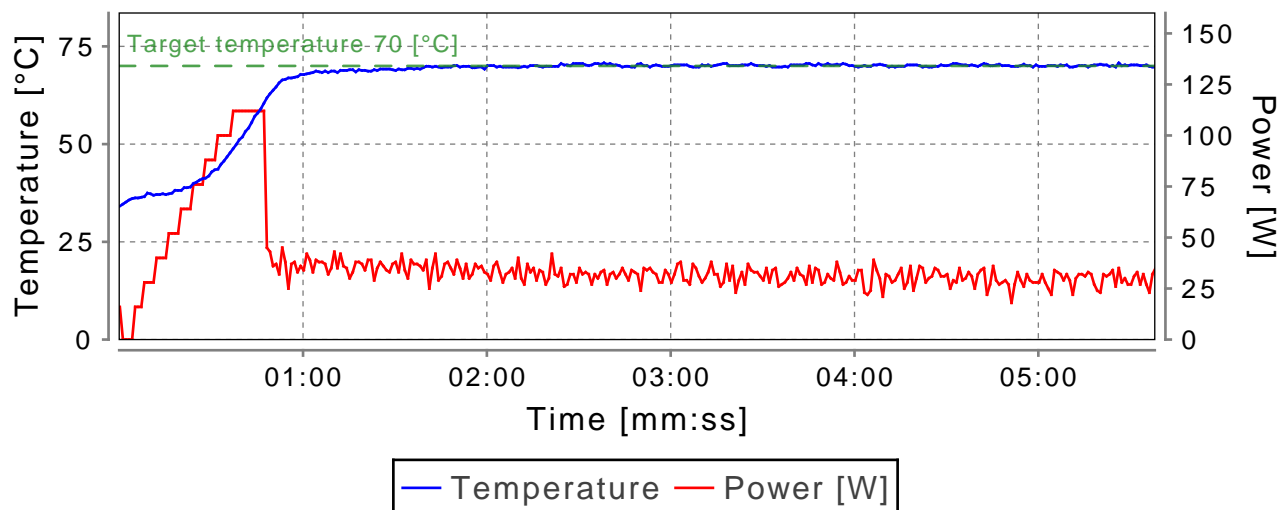
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Single deprotect. Piperidine

, 2016-05-23 16:02

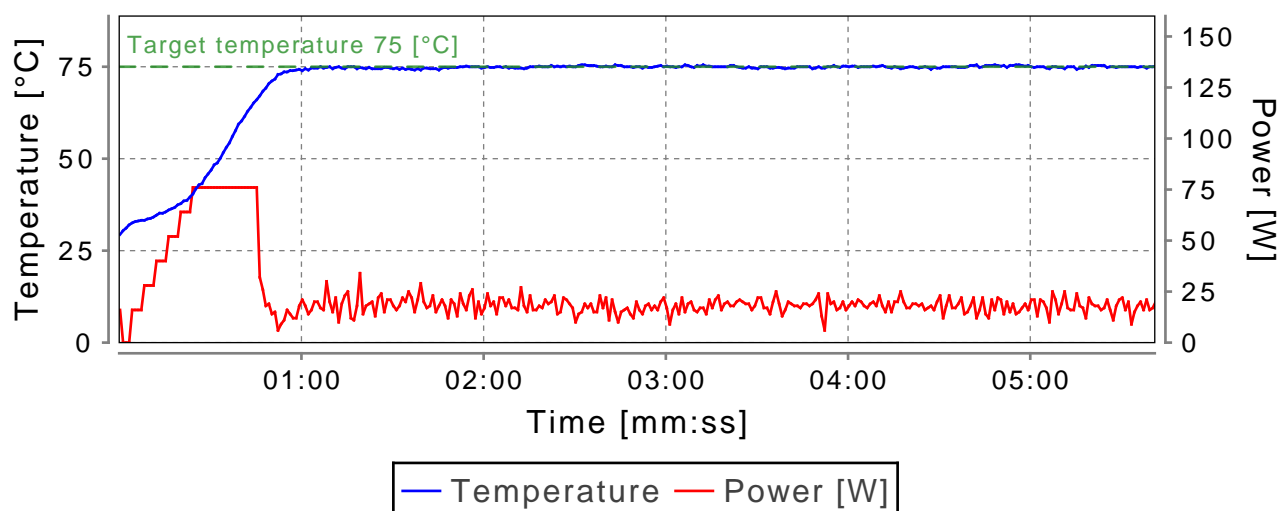
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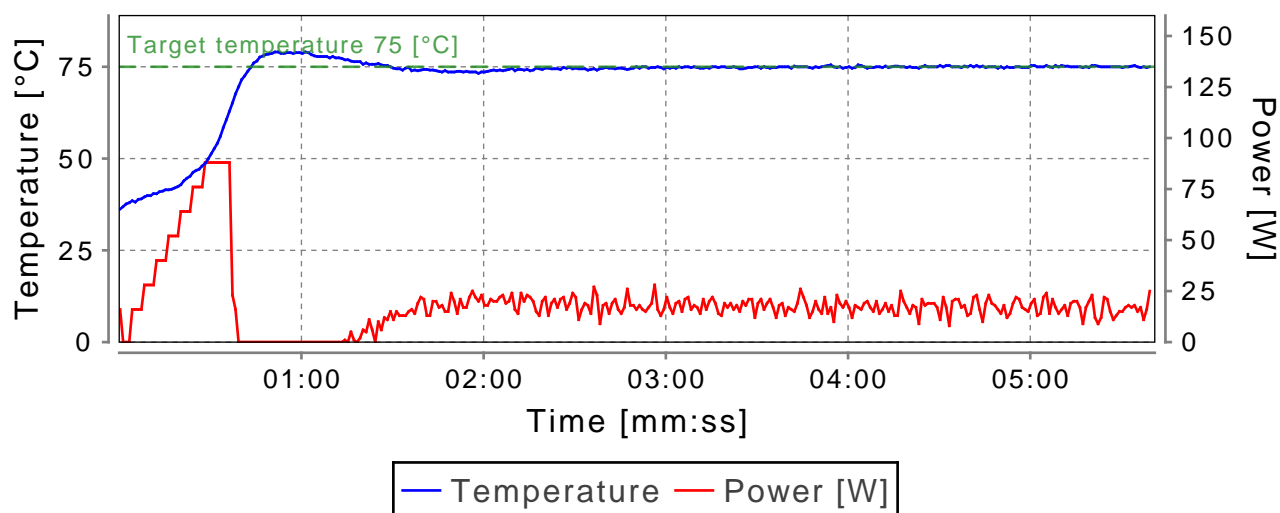
Double coupling heat

, 2016-05-23 16:15

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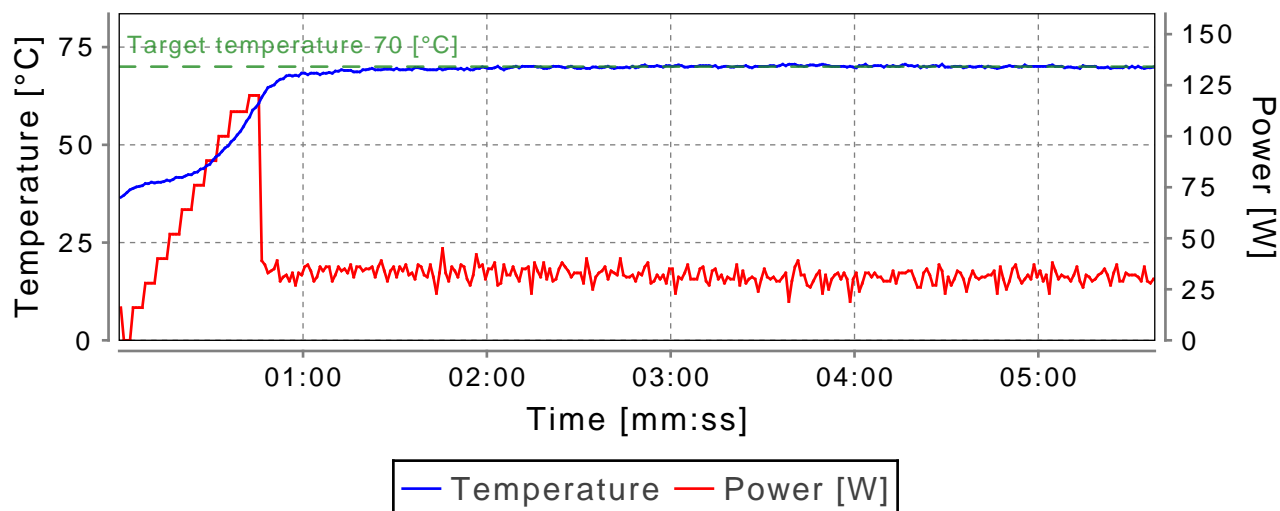


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Single deprotect. Piperidine, 2016-05-23 16:37

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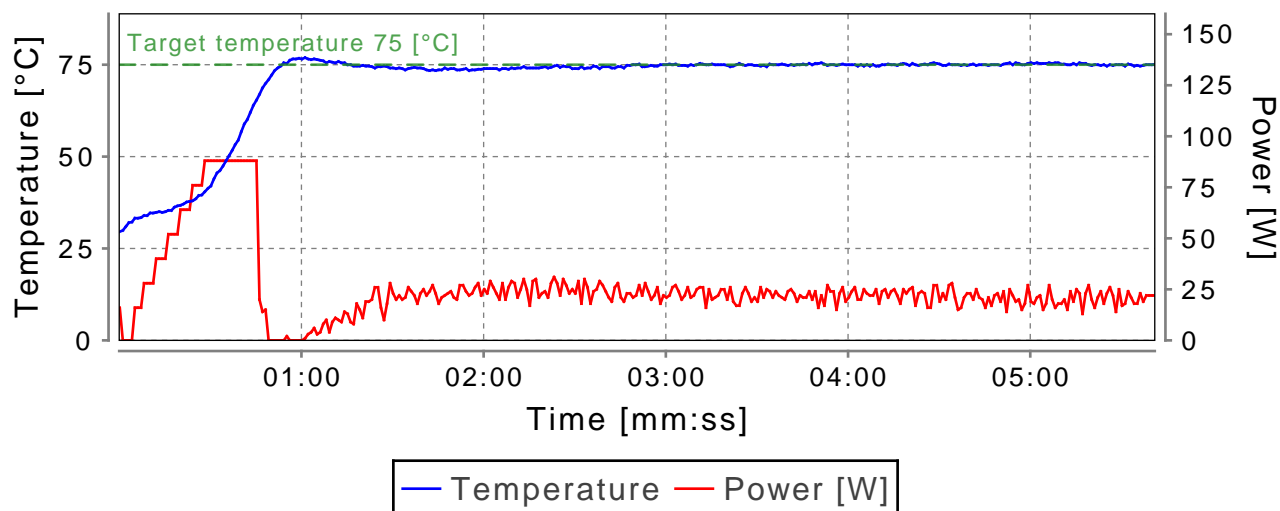


Cycle No: 2

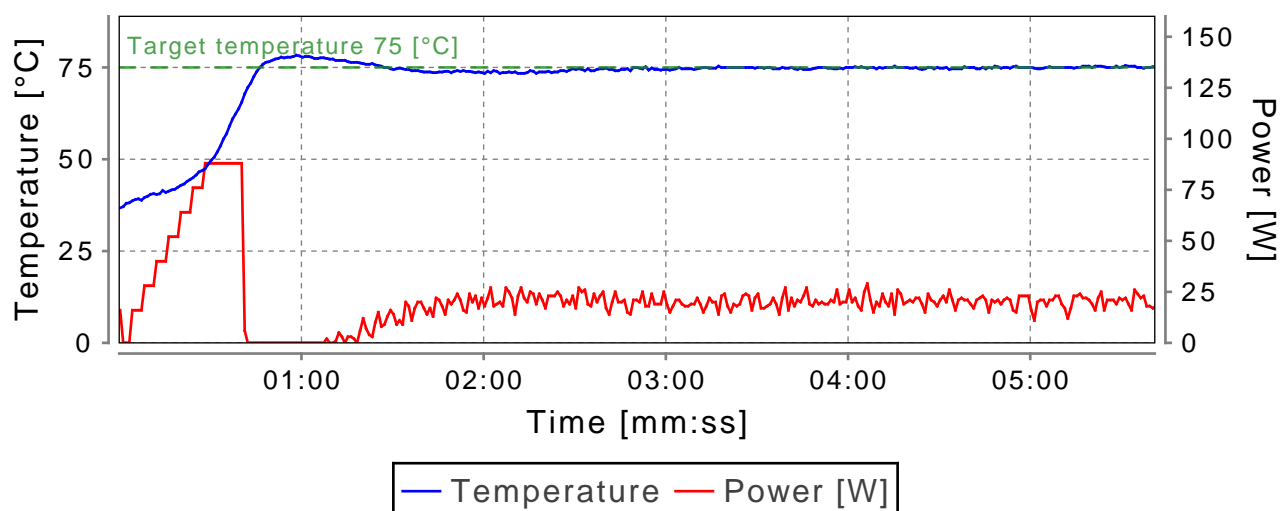
K (Fmoc-Lys(Boc)-OH)

Double coupling heat, 2016-05-23 16:50

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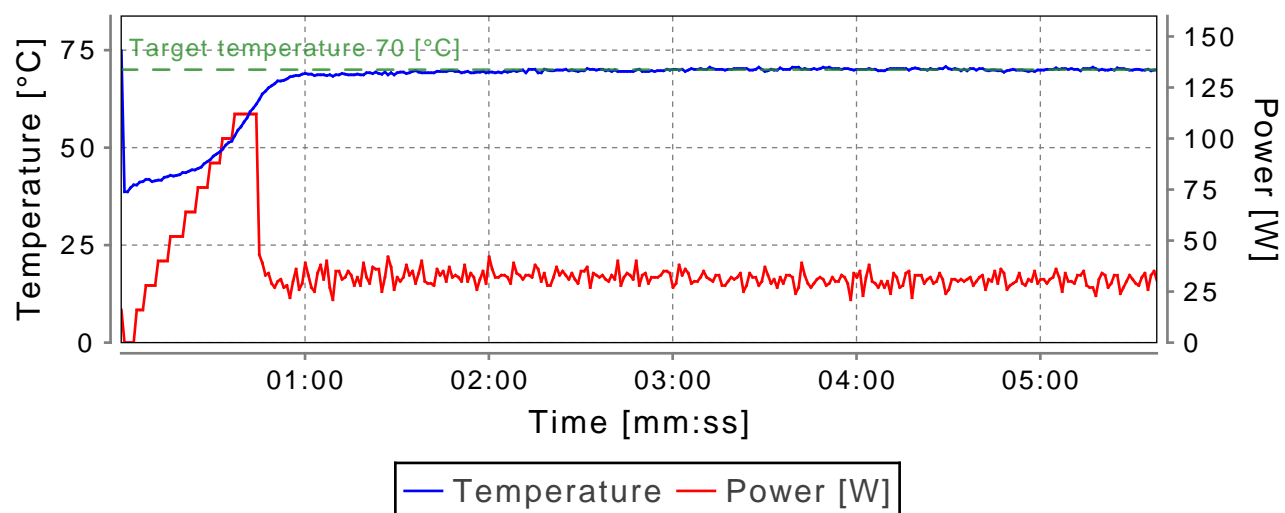


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Single deprotect. Piperidine, 2016-05-23 17:11

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

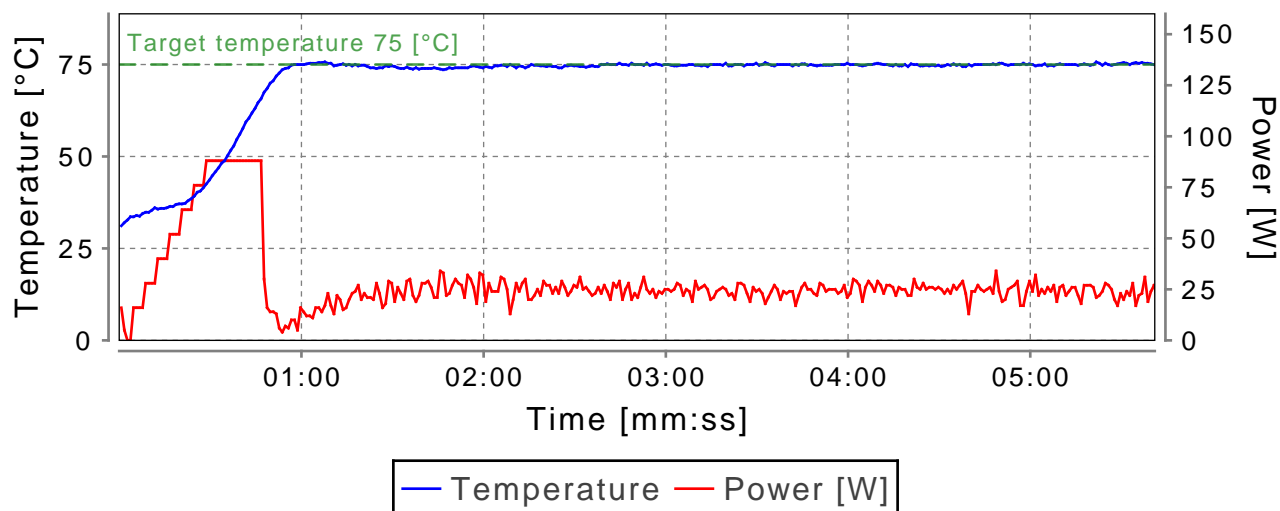


Cycle No: 3

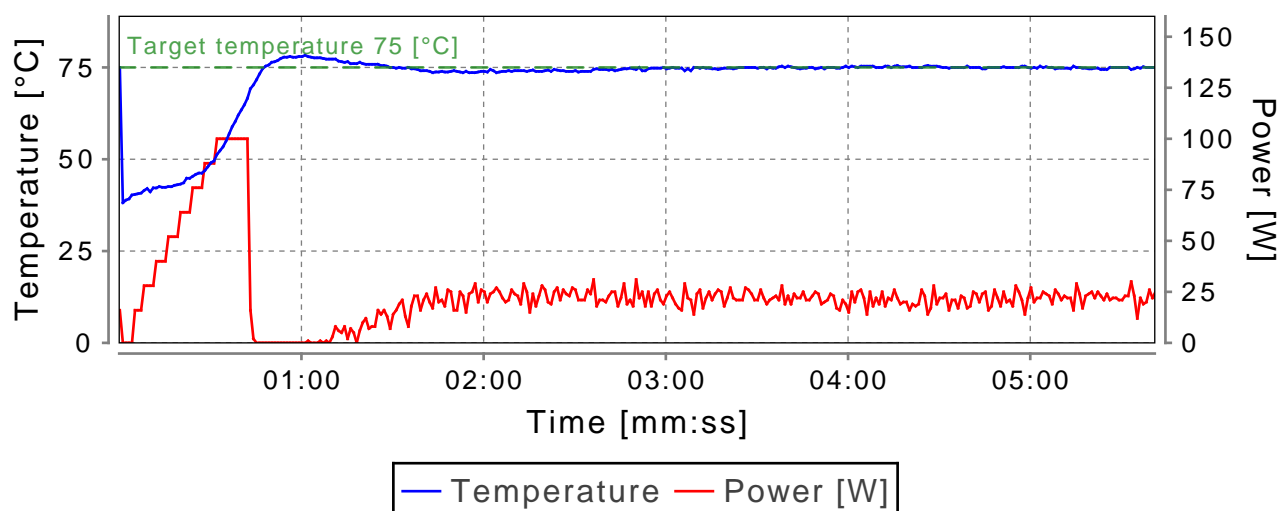
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 17:25

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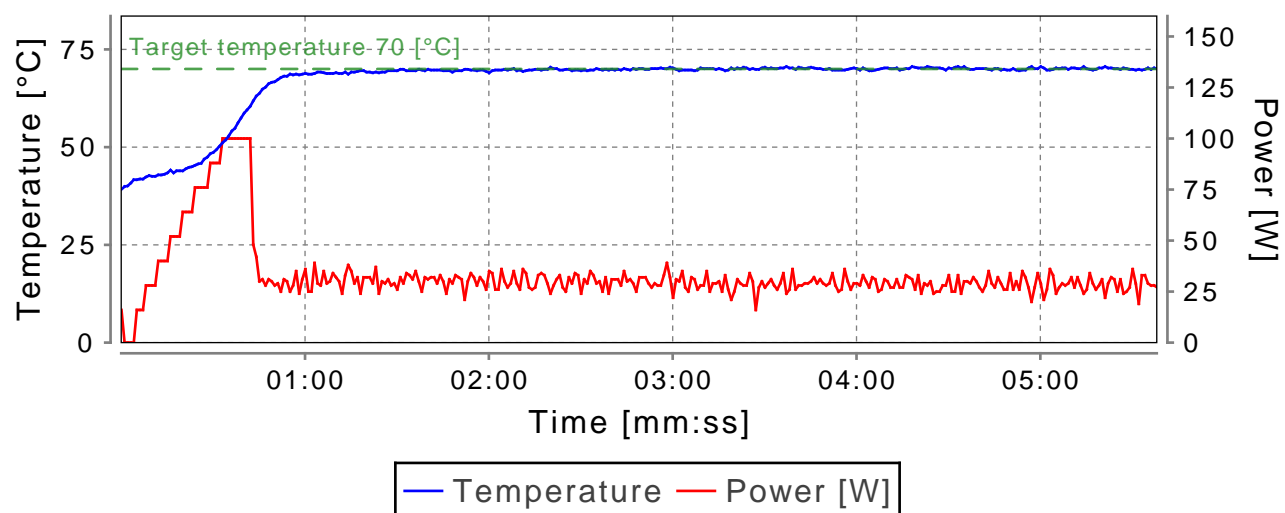


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Single deprotect. Piperidine, 2016-05-23 17:46

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

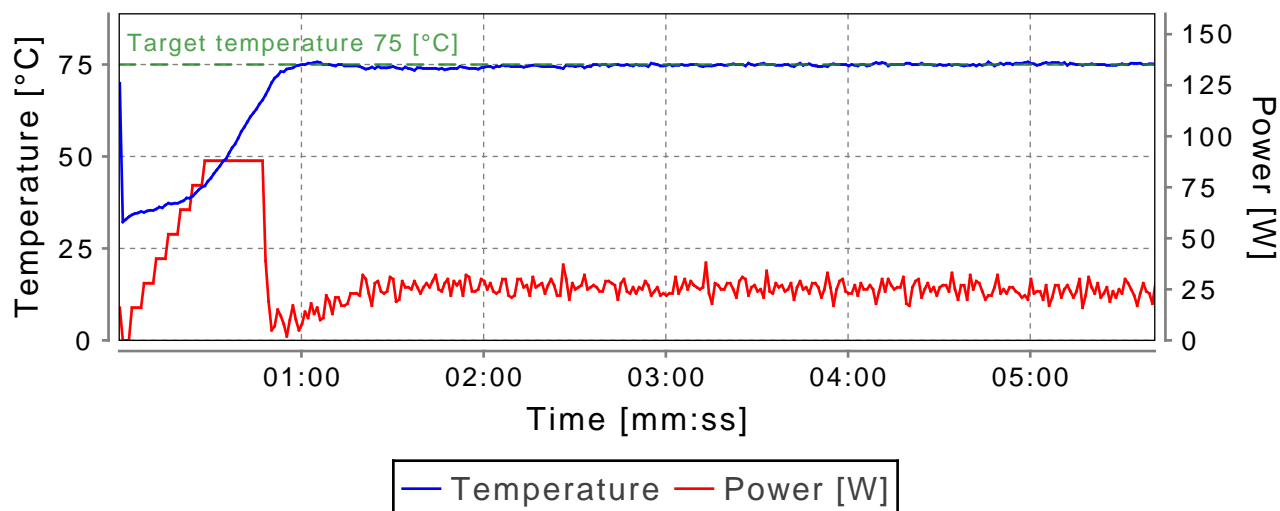


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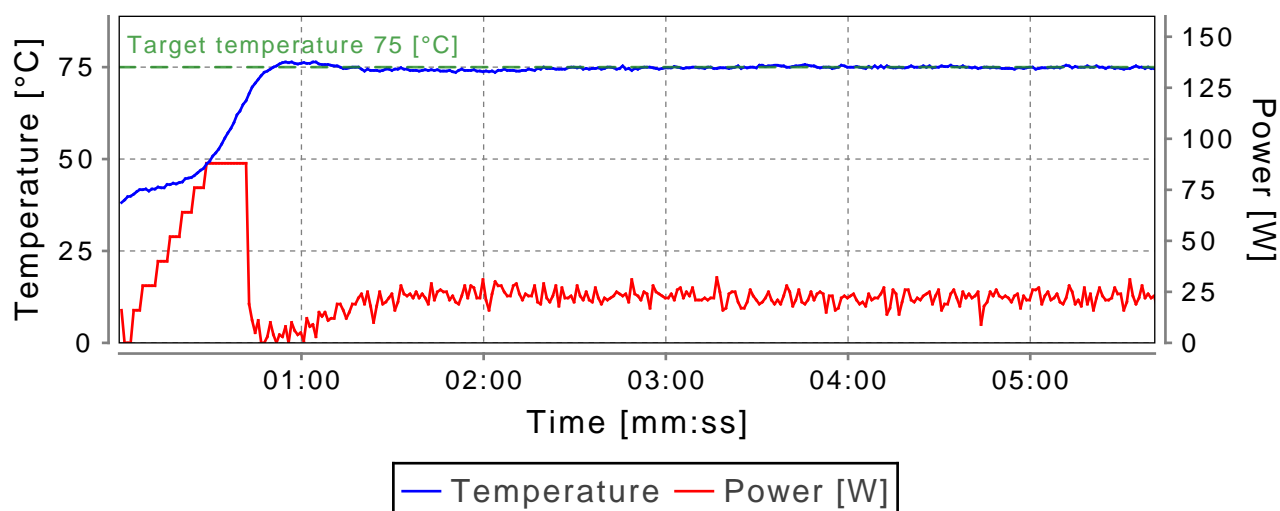
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 18:00

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

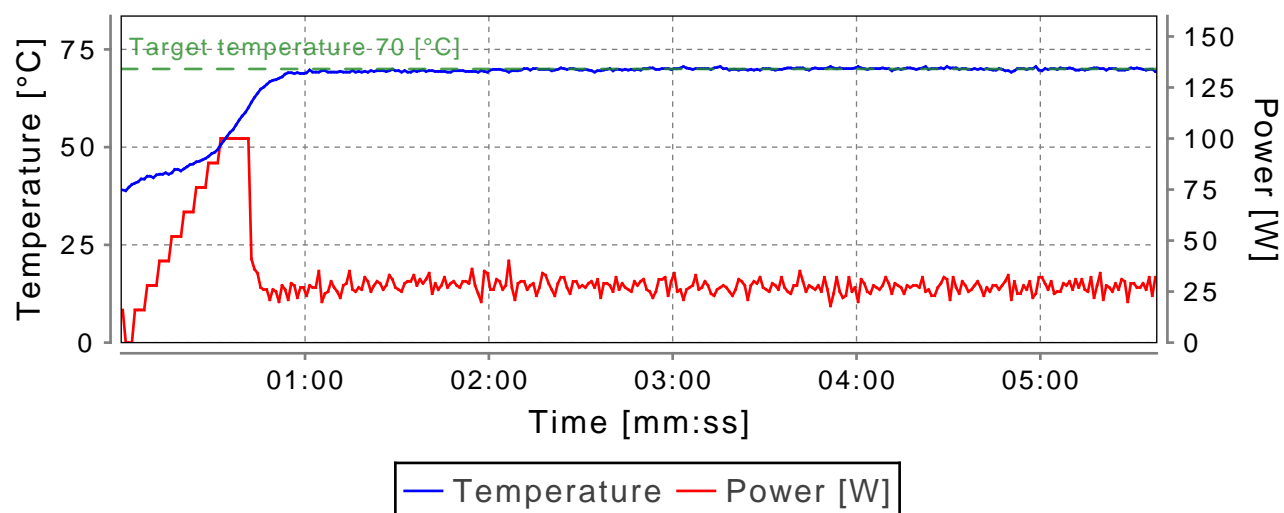


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Single deprotect. Piperidine, 2016-05-23 18:21

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

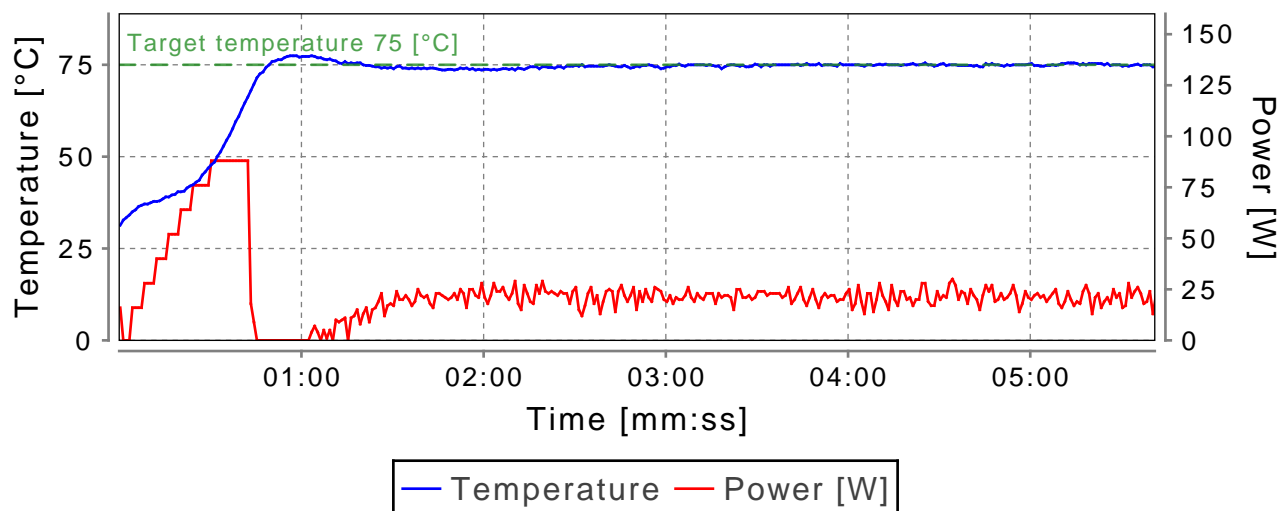


Cycle No: 5

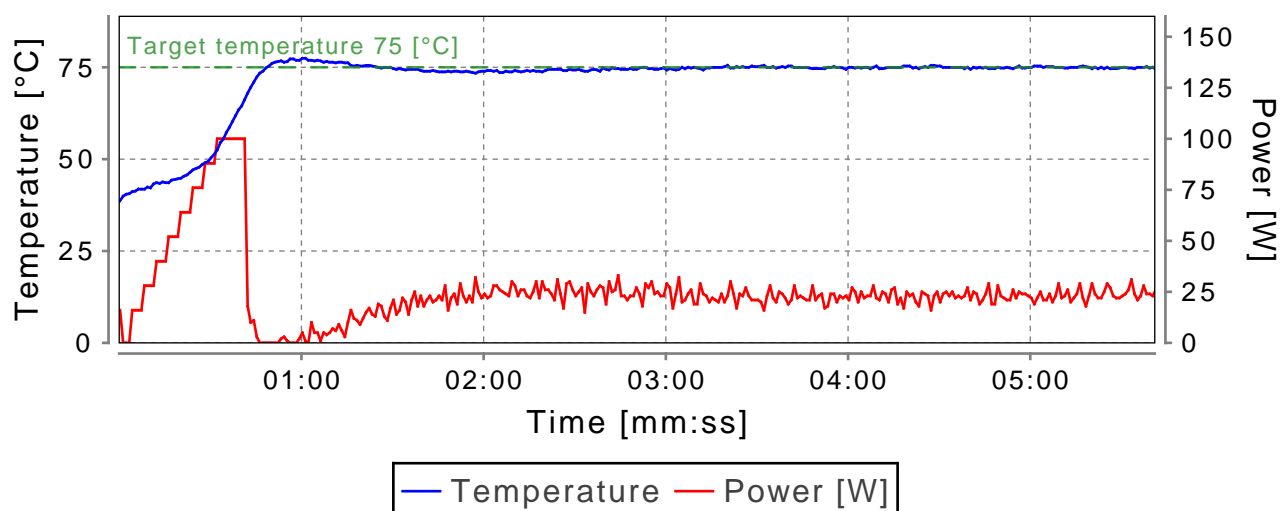
W (Fmoc-Trp(Boc)-OH)

Double coupling heat, 2016-05-23 18:35

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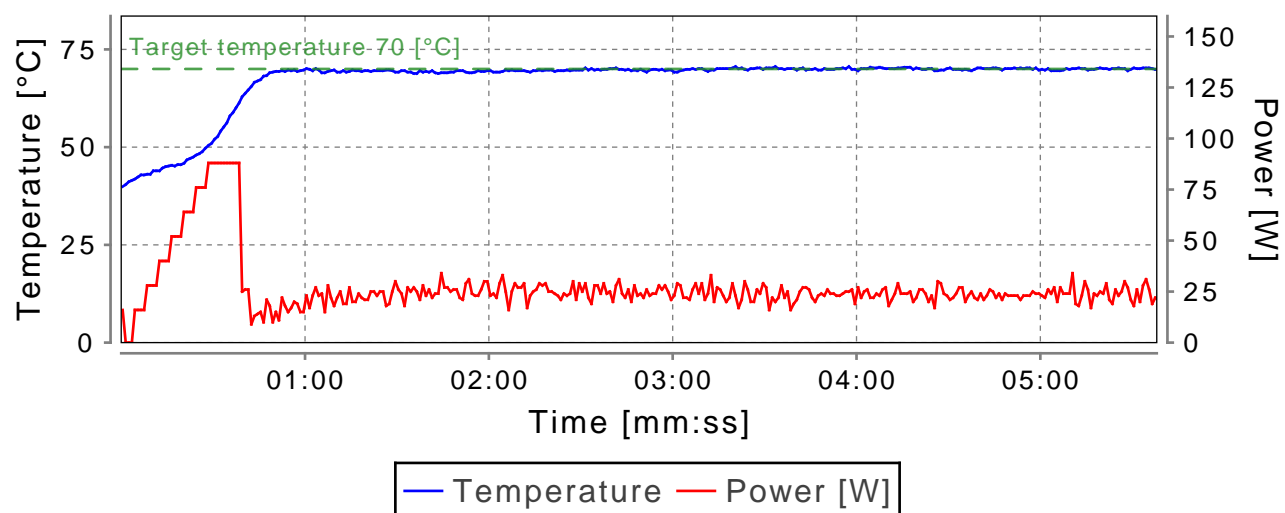


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 18:56

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

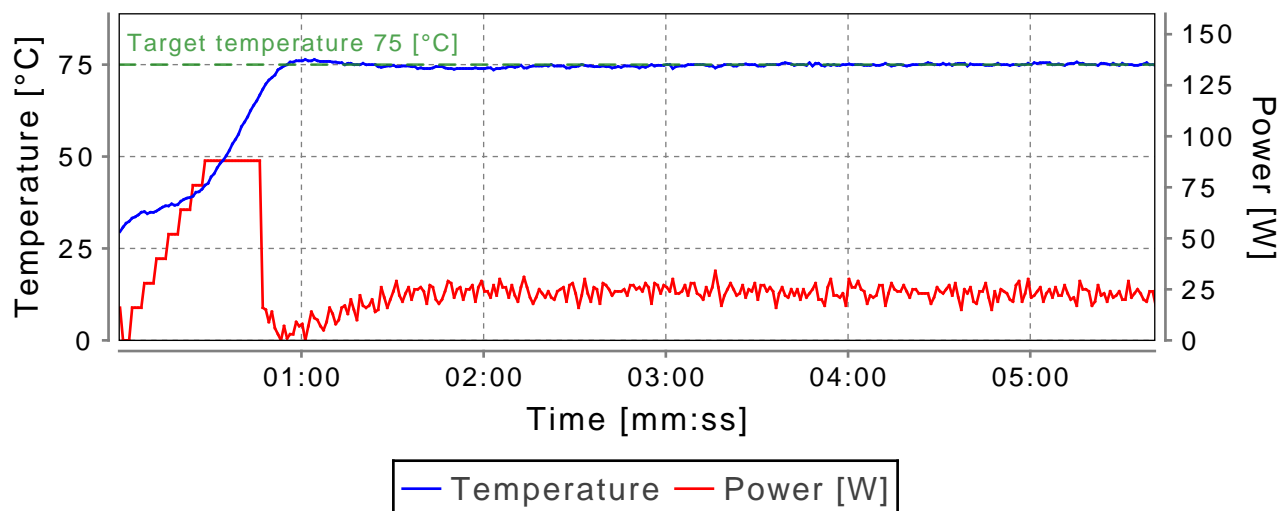


Cycle No: 6

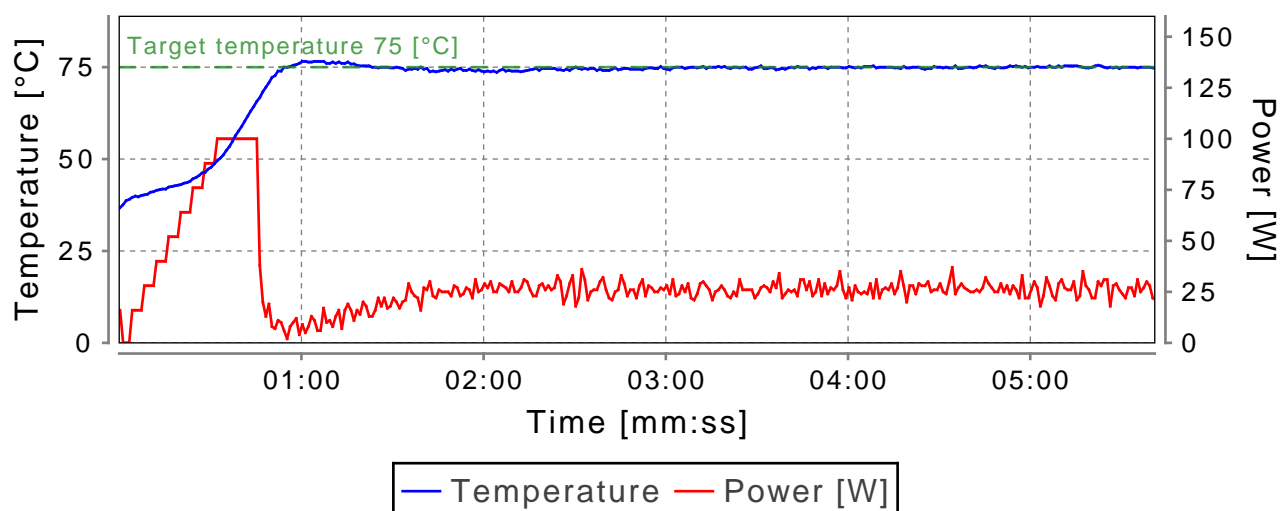
W (Fmoc-Trp(Boc)-OH)

Double coupling heat, 2016-05-23 19:09

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

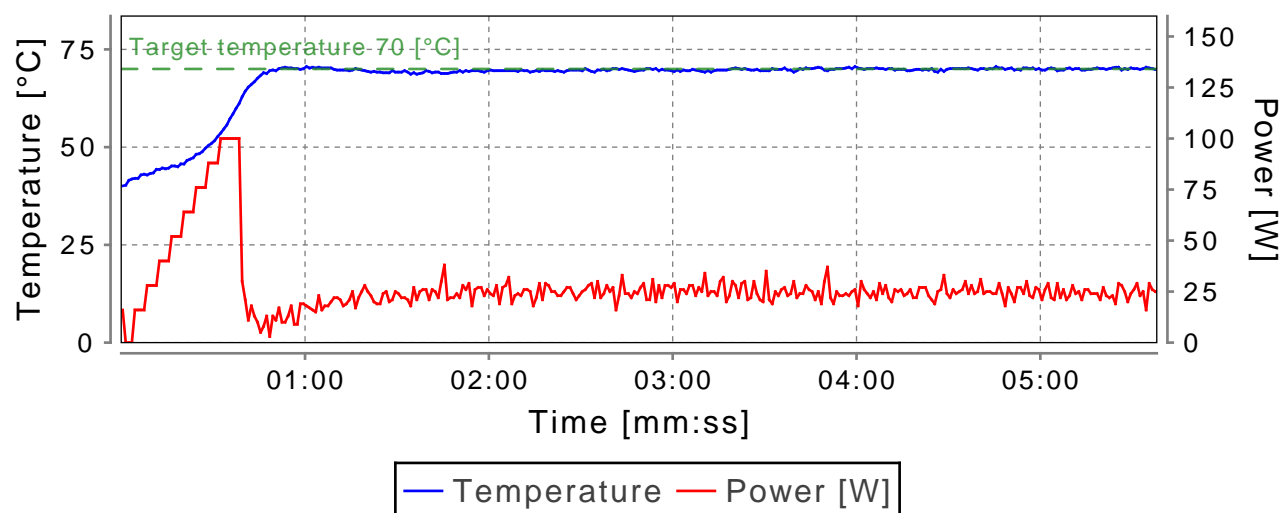


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 19:31

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

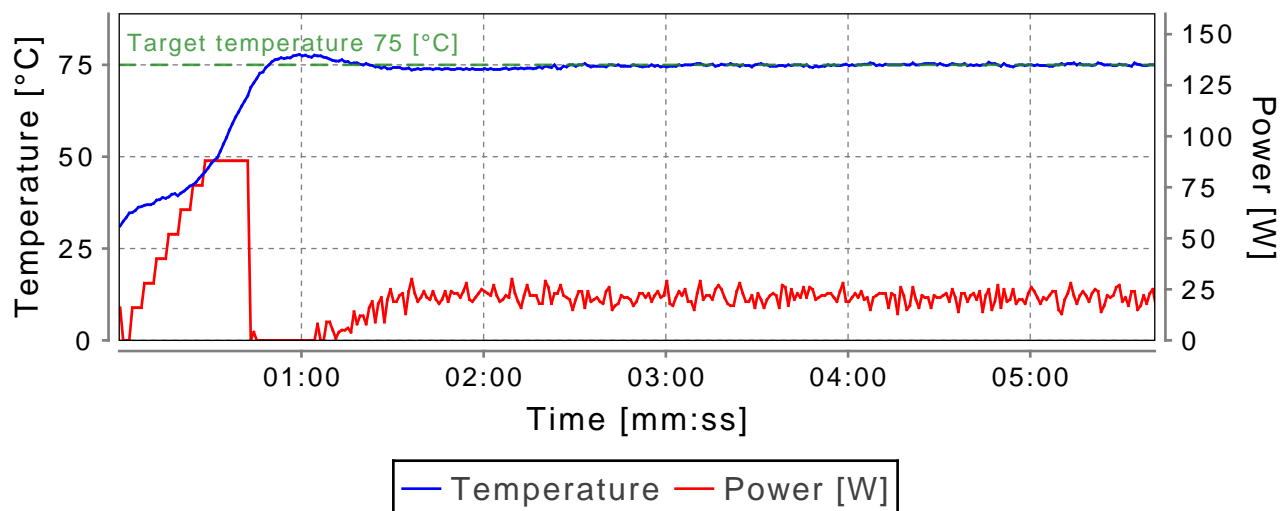


Cycle No: 7

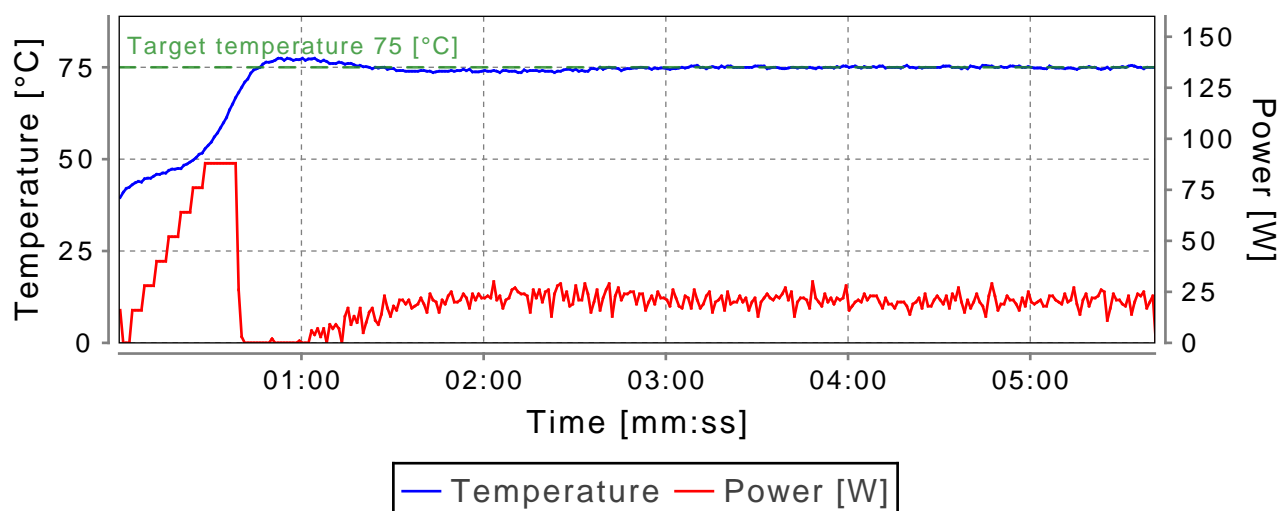
F (Fmoc-Phe-OH)

Double coupling heat, 2016-05-23 19:44

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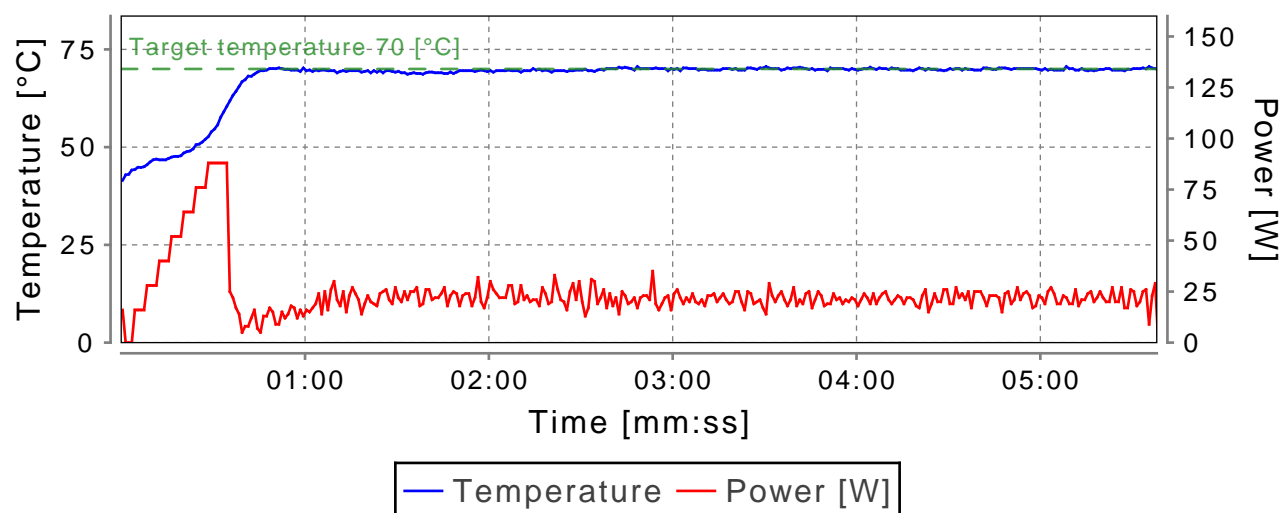


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 20:05

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

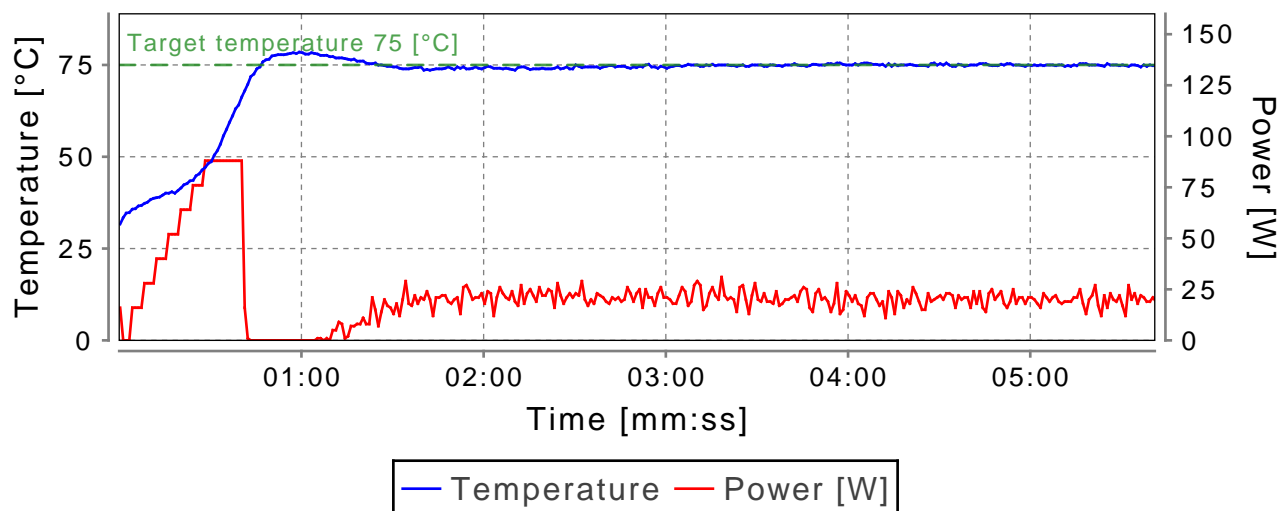


Cycle No: 8

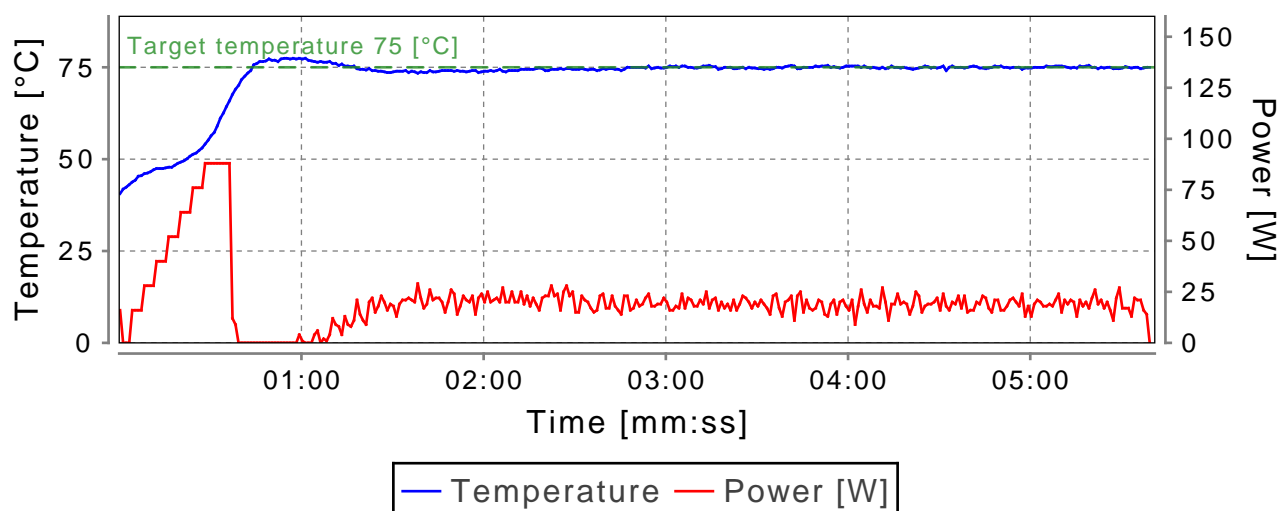
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 20:19

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

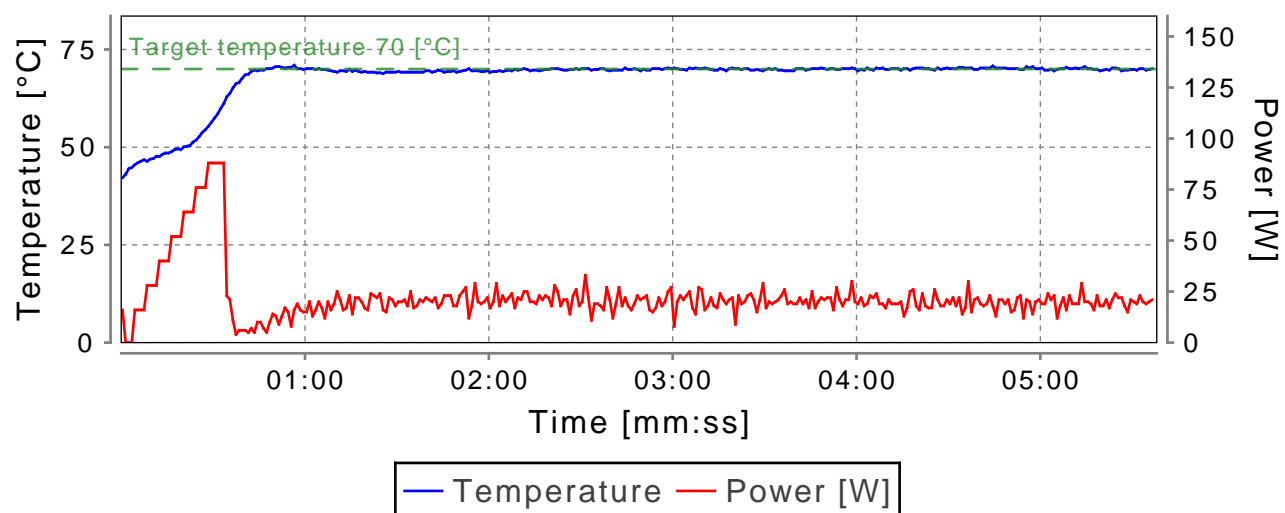


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 20:40

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

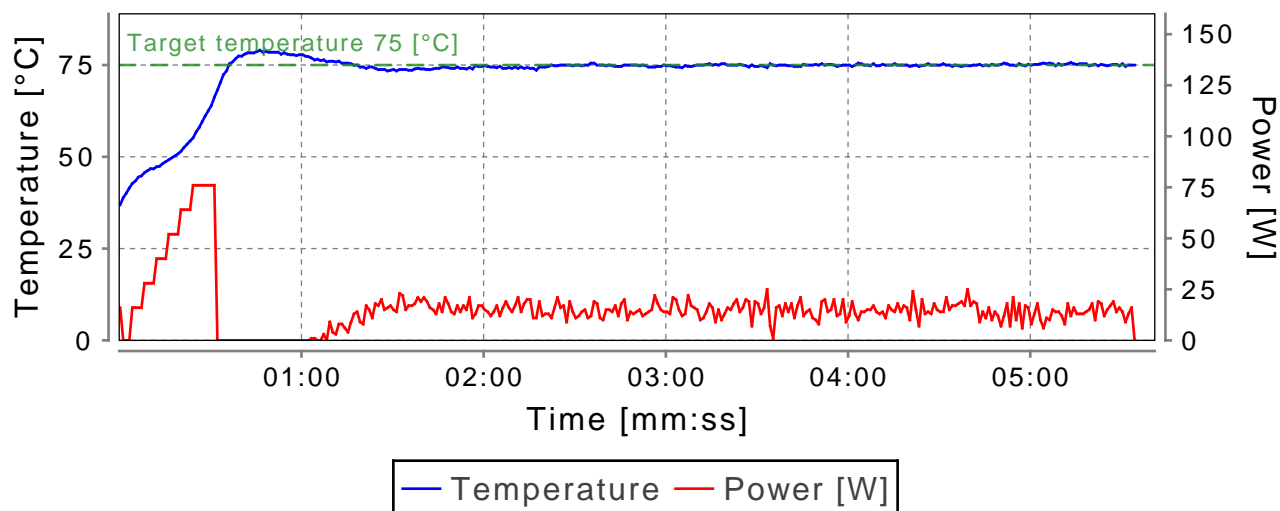


Cycle No: 9

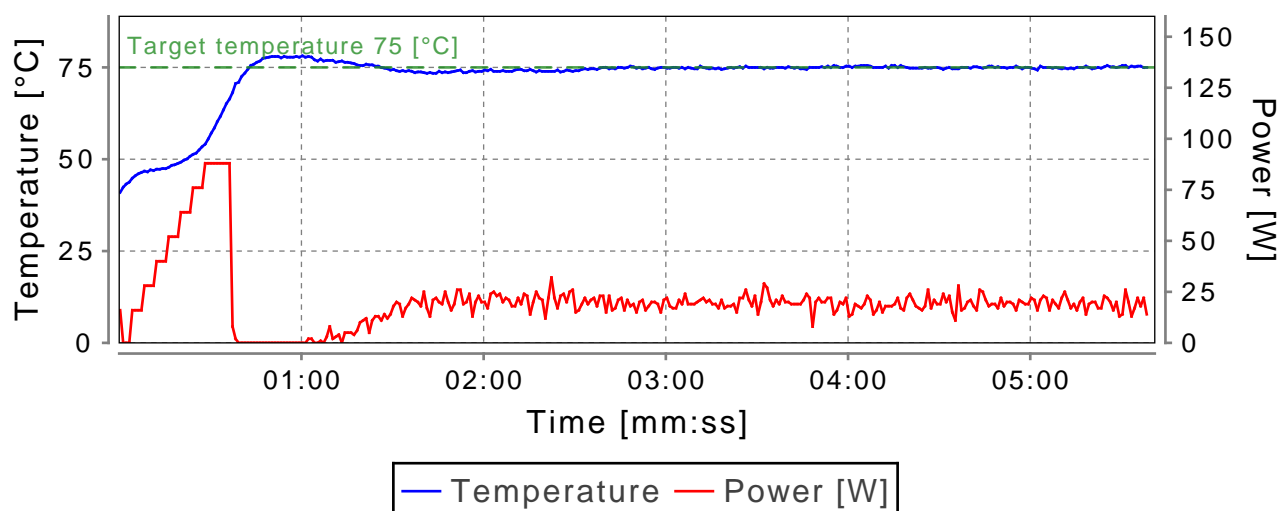
F (Fmoc-Phe-OH)

Double coupling heat, 2016-05-23 20:53

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

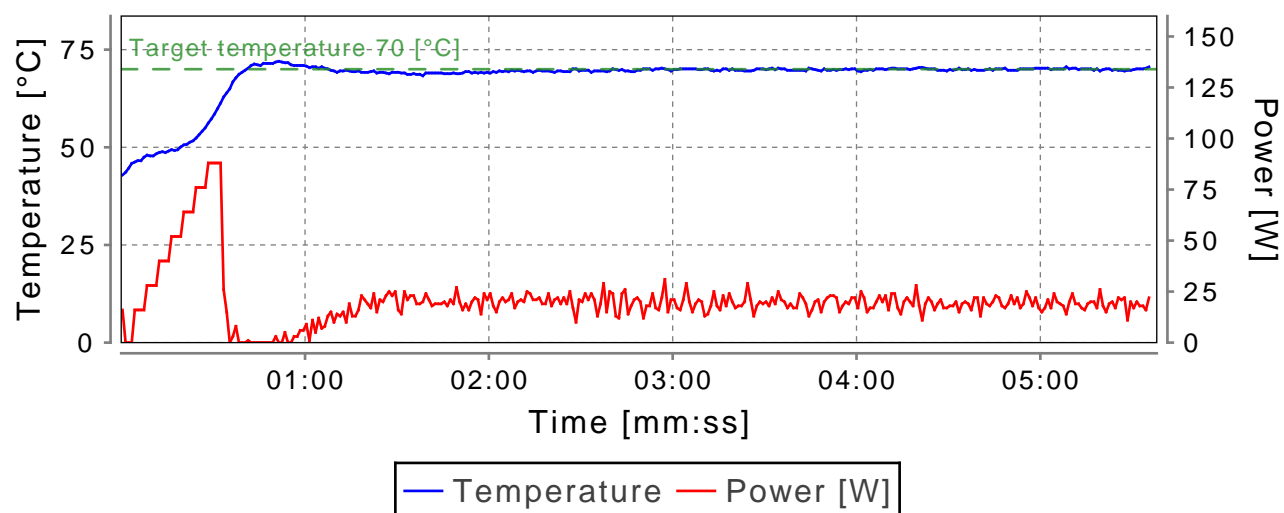


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 21:14

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

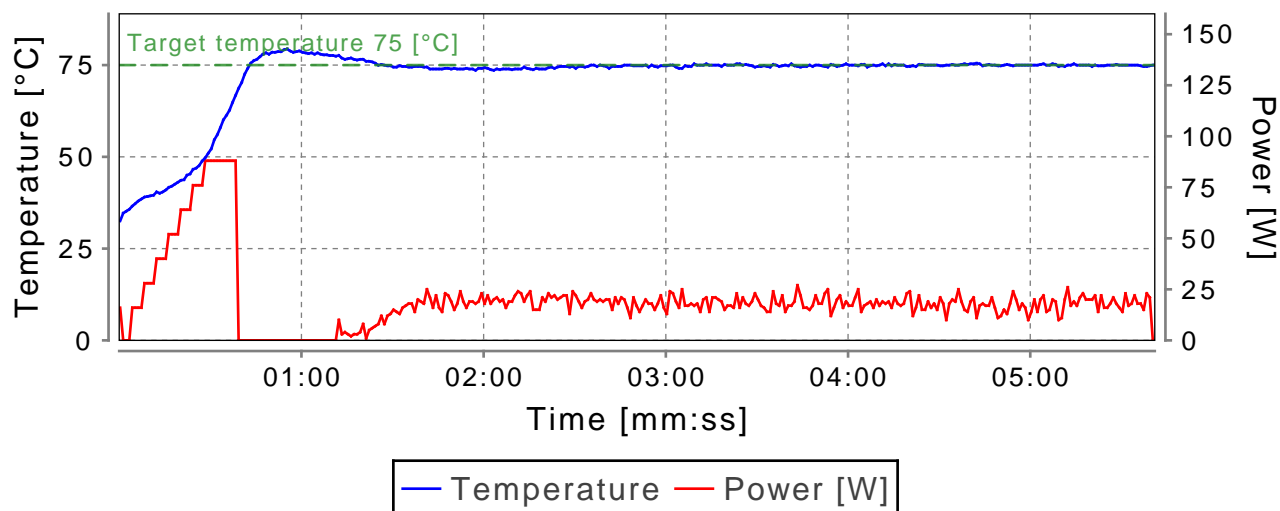


Cycle No: 10

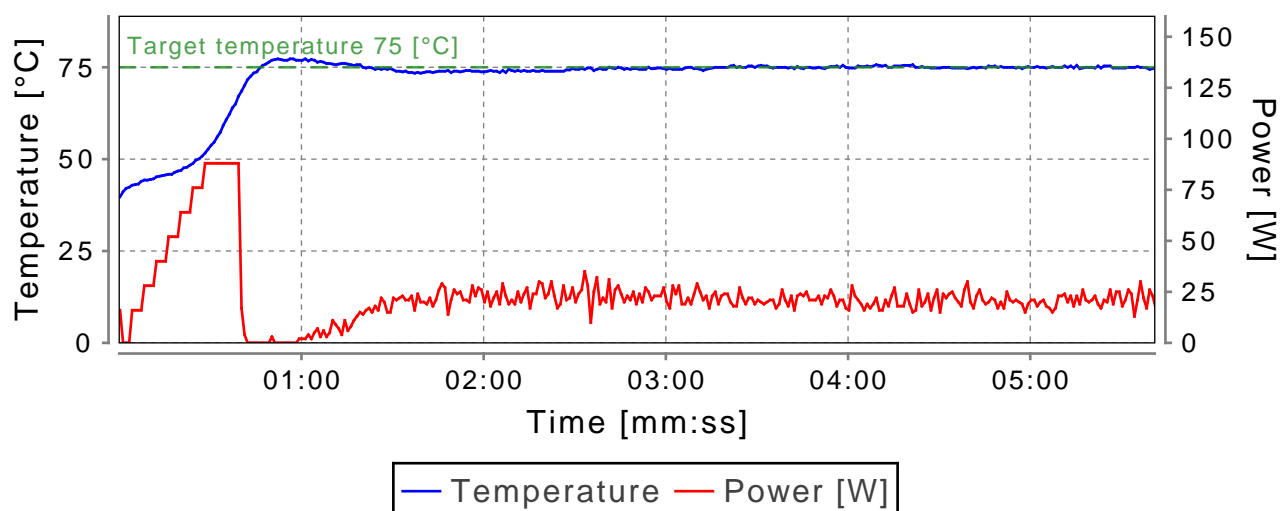
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 21:27

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

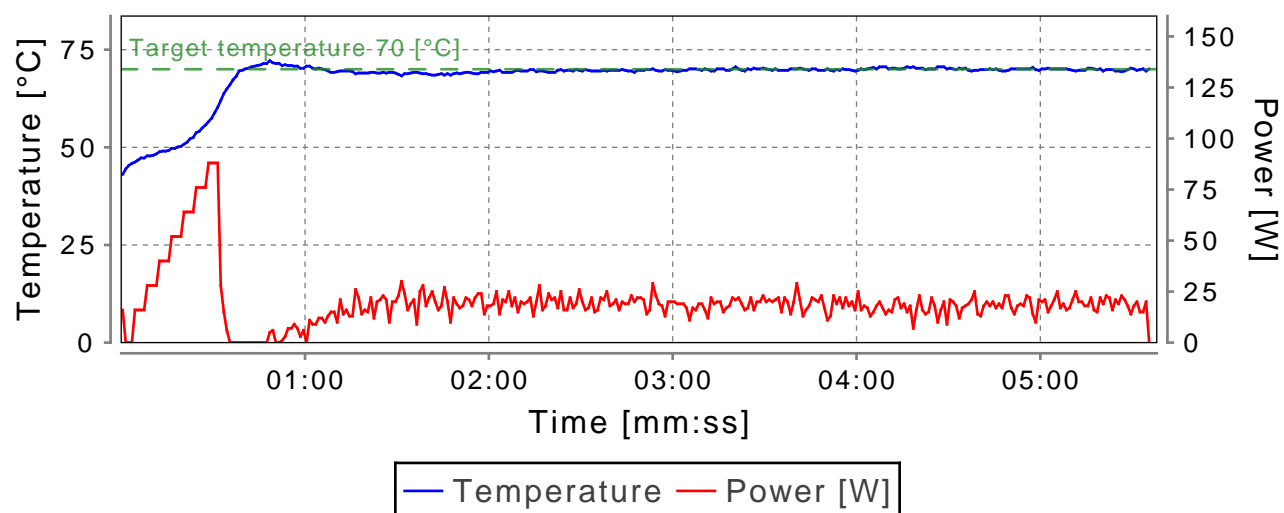


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 21:49

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

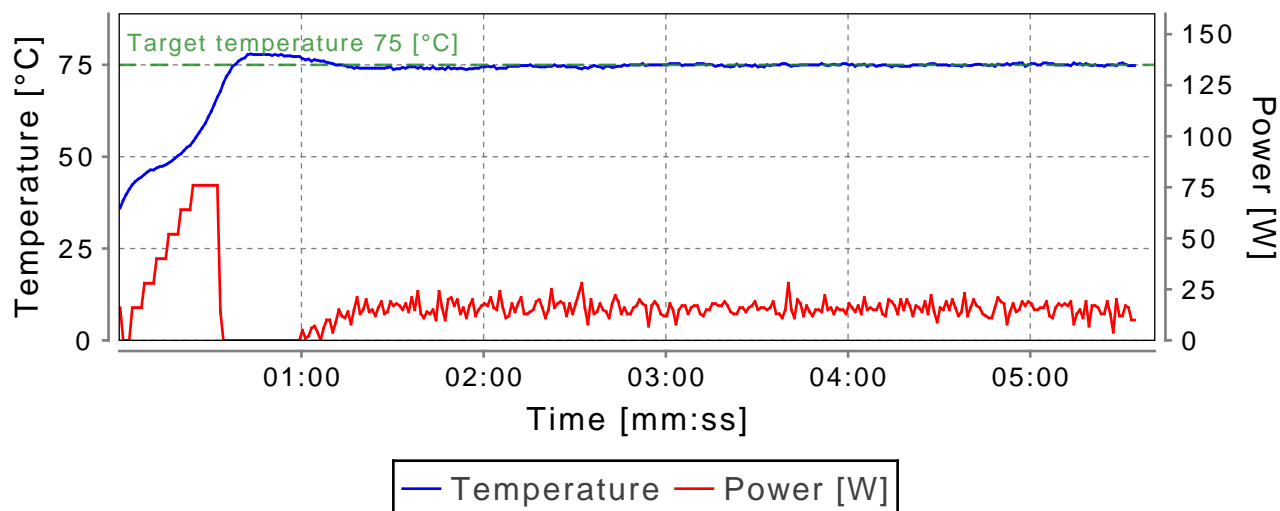


Cycle No: 11

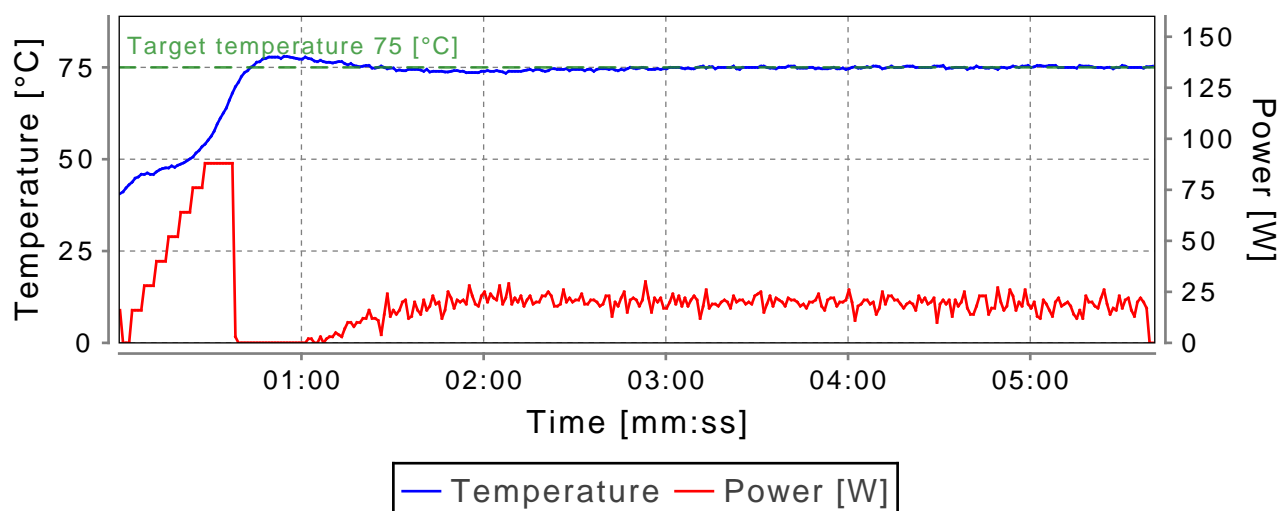
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 22:02

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

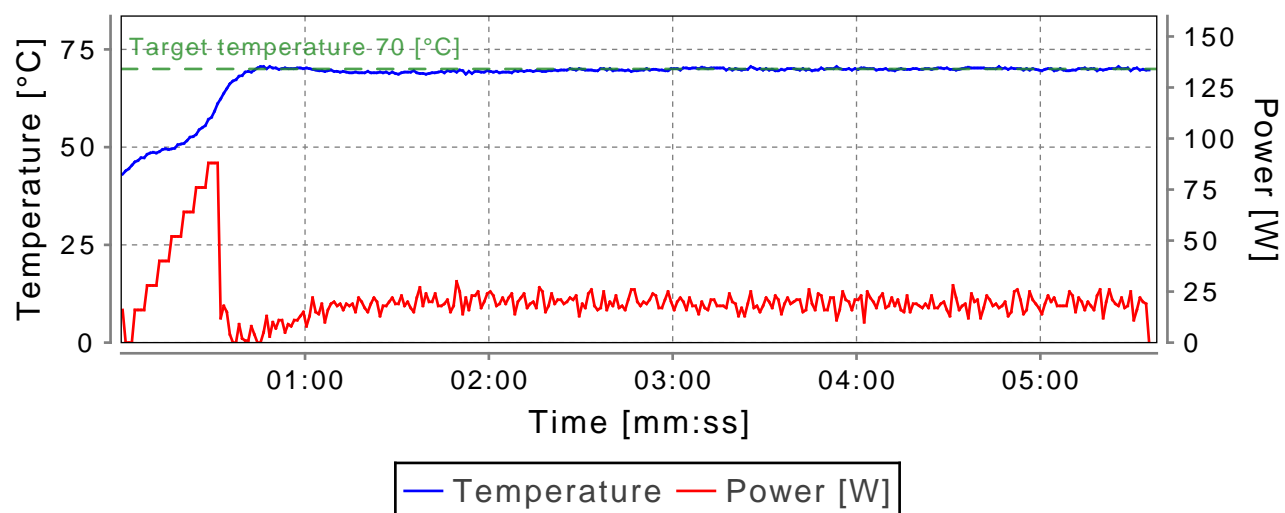


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 22:23

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

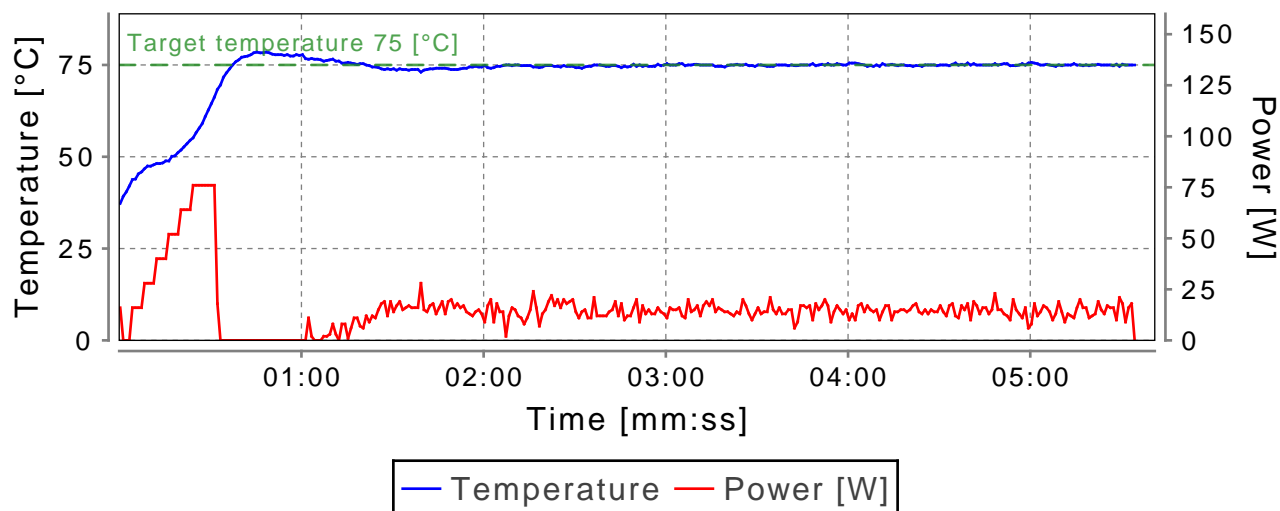


Cycle No: 12

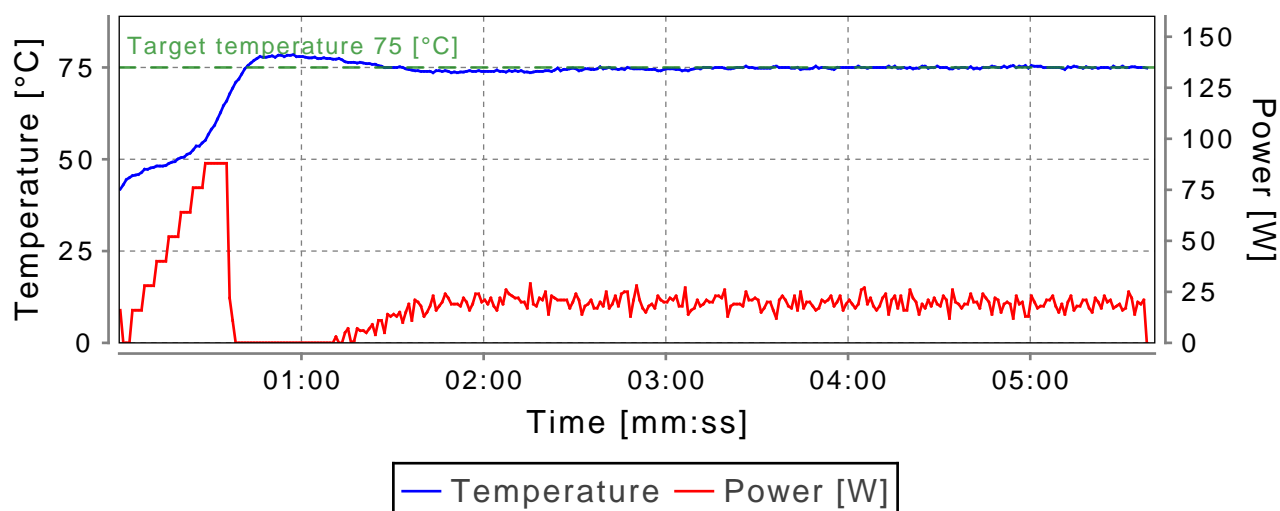
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 22:36

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

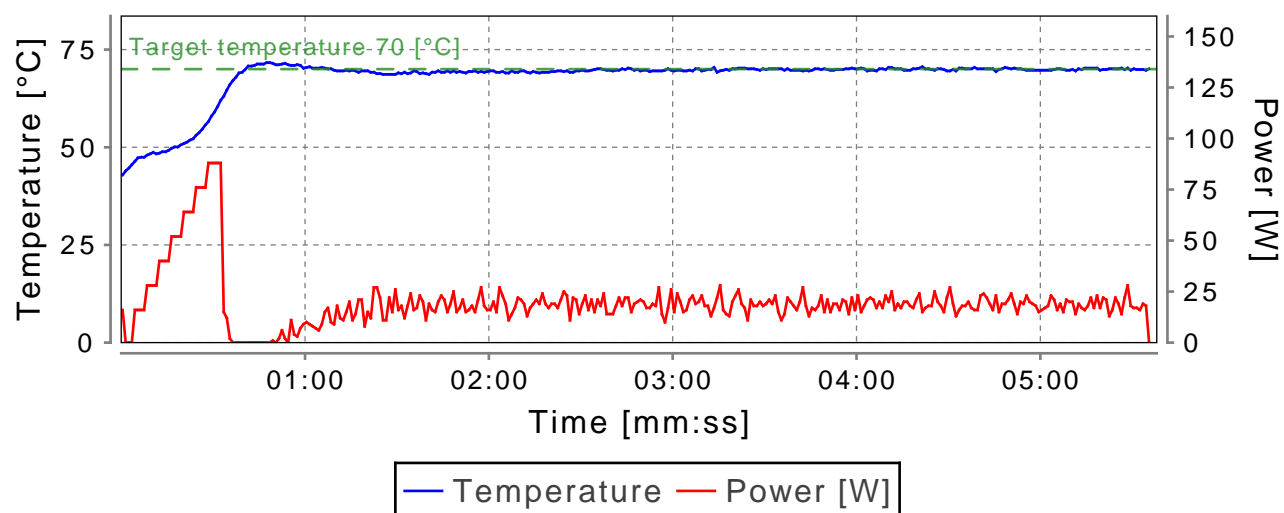


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 22:57

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

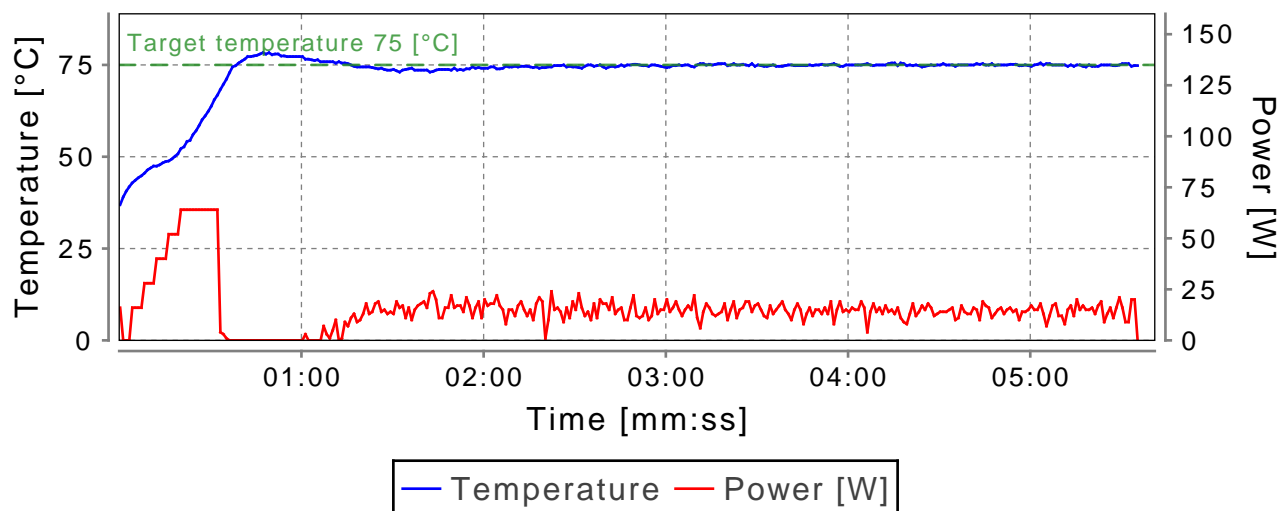


Cycle No: 13

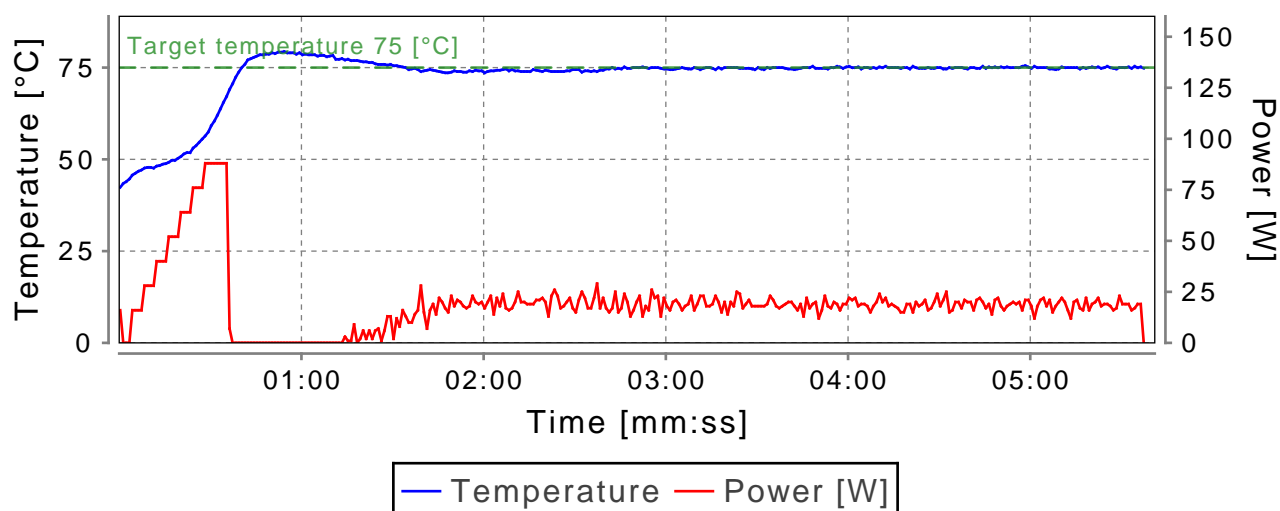
V (Fmoc-Val-OH)

Double coupling heat, 2016-05-23 23:11

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

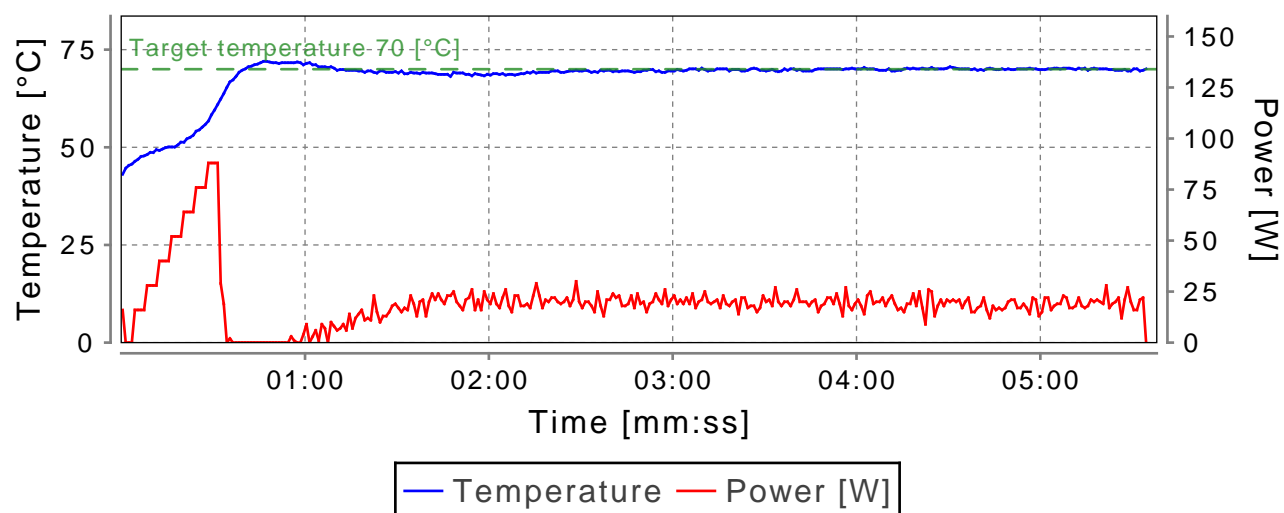


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-23 23:32

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

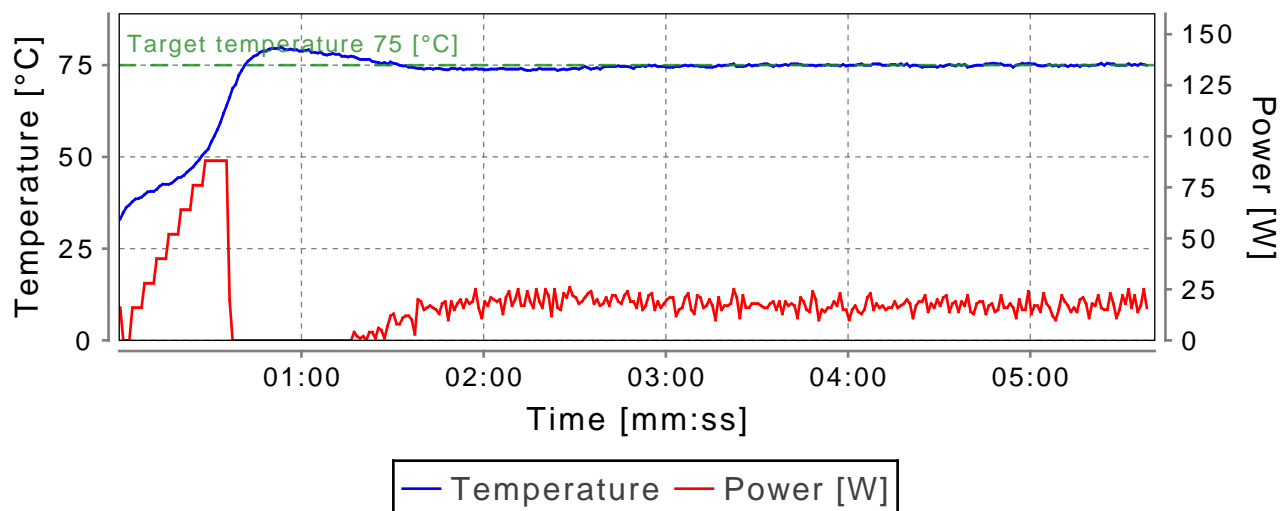


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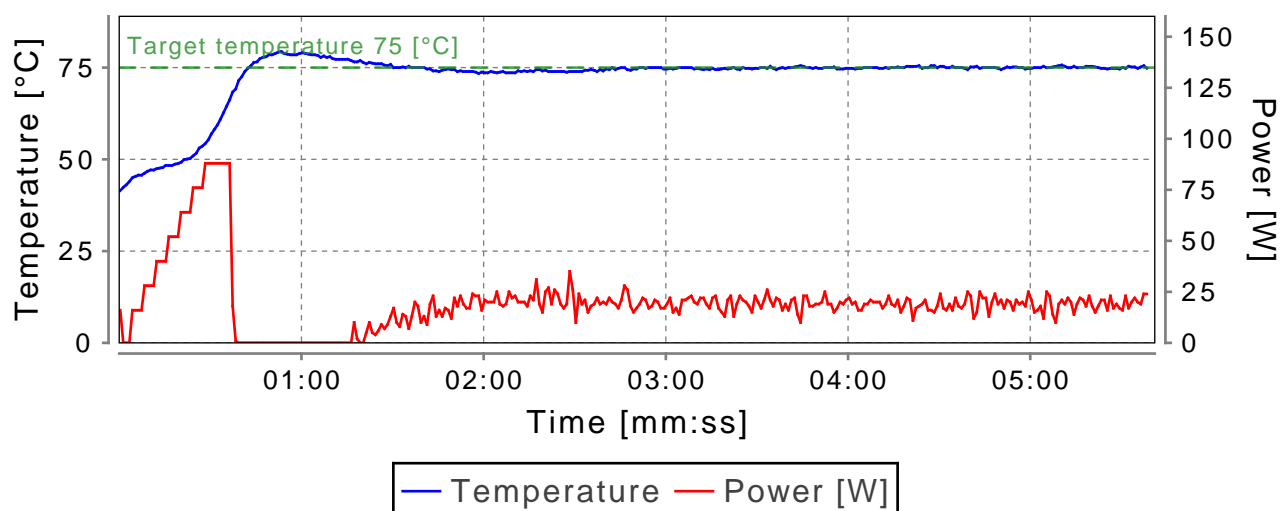
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-23 23:45

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

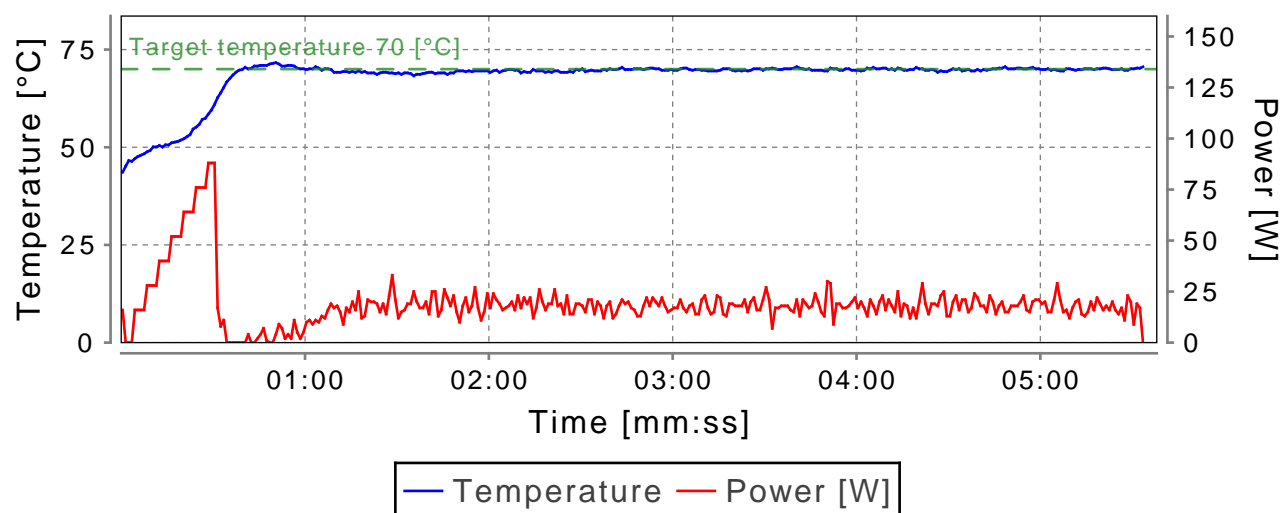


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 00:06

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

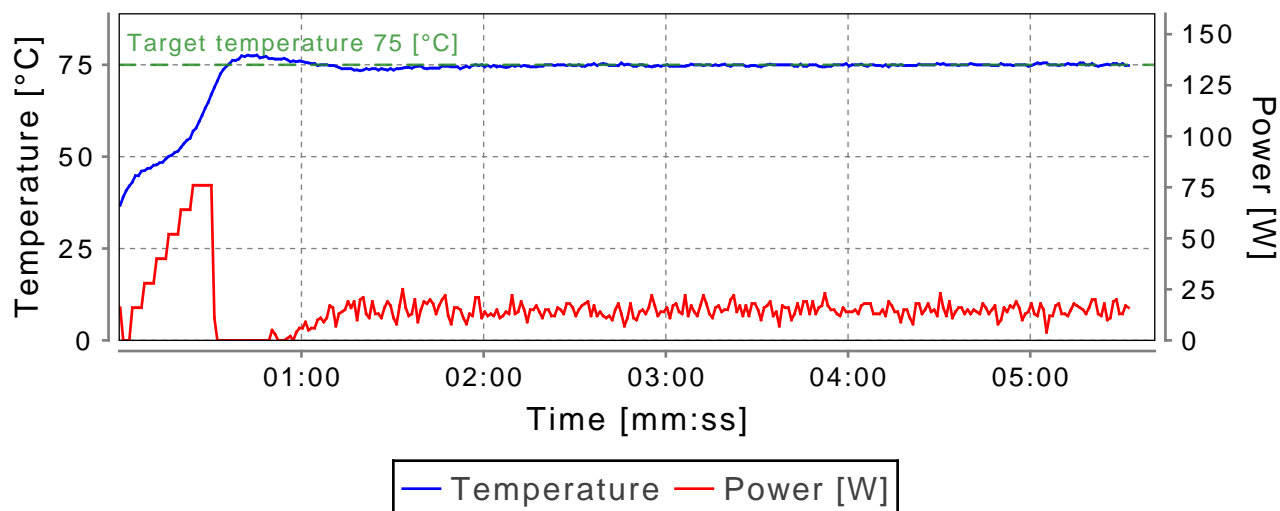


Cycle No: 15

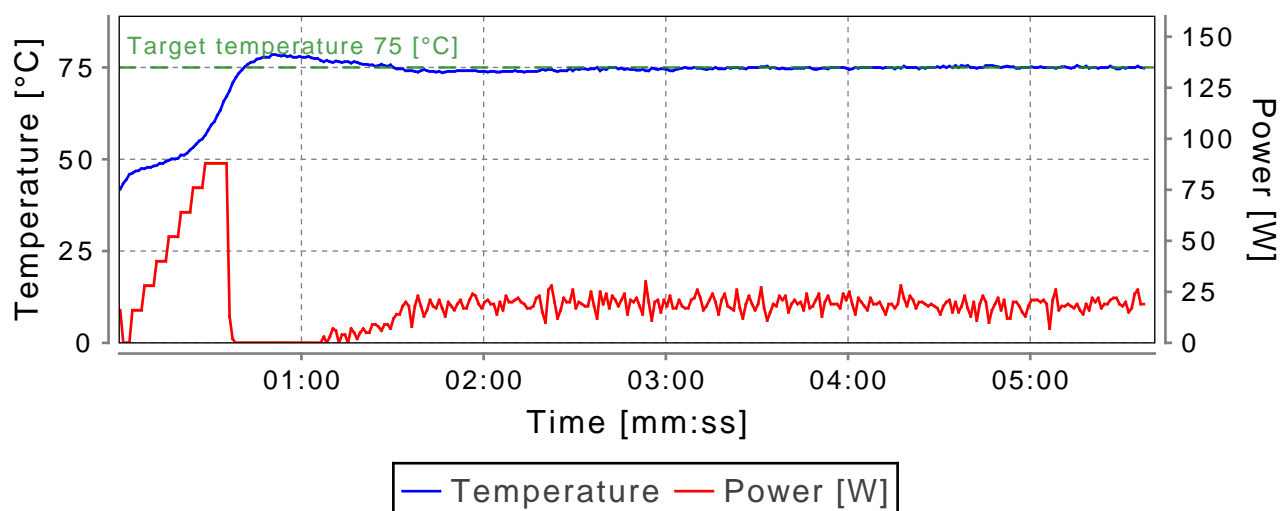
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-24 00:20

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

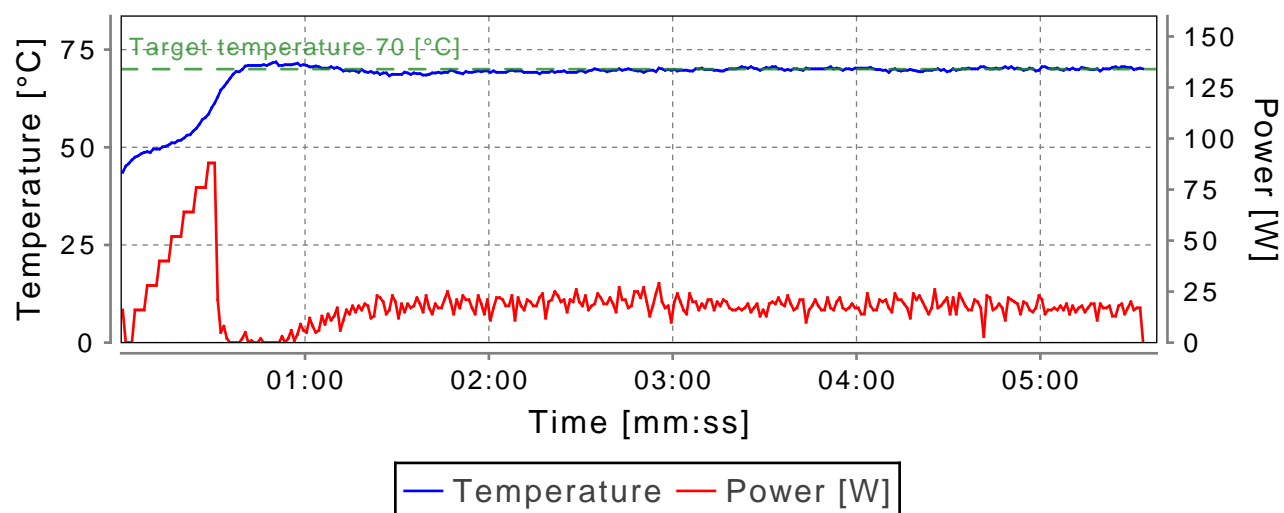


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 00:41

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

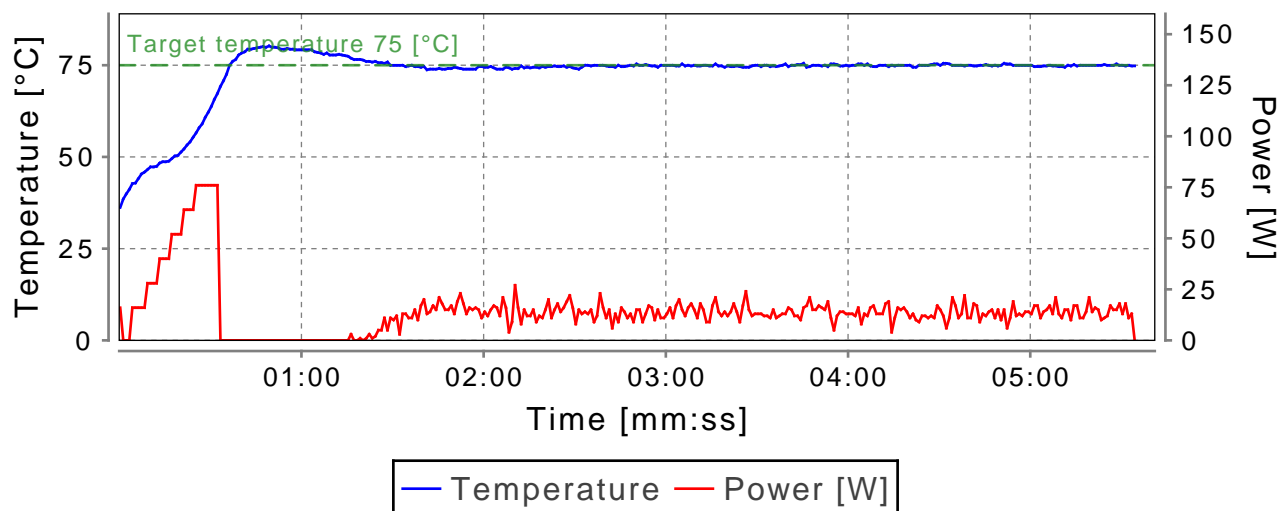


Cycle No: 16

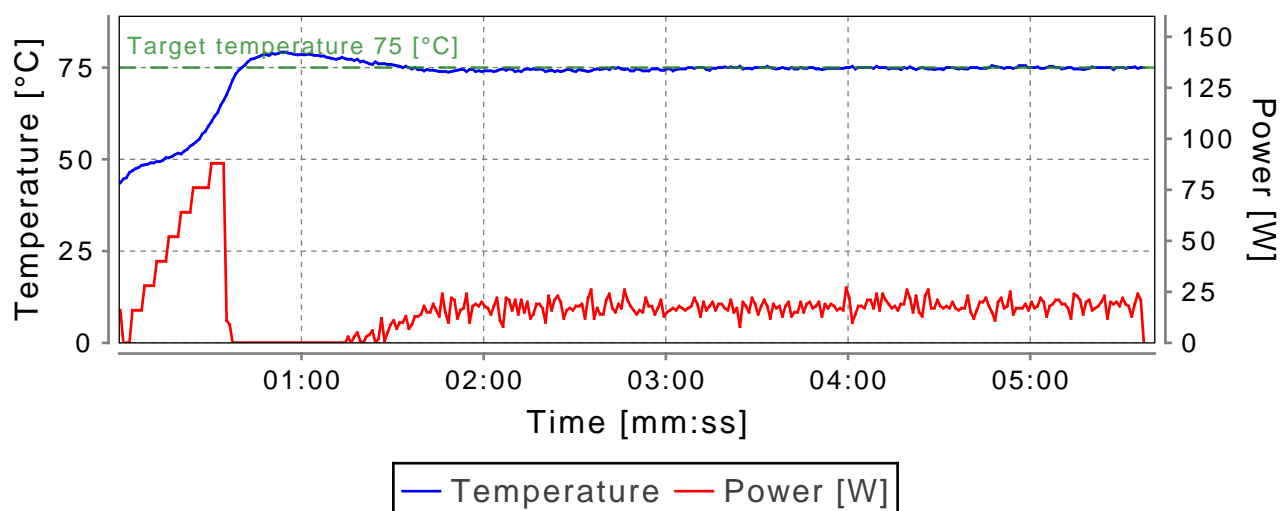
A (Fmoc-Ala-OH)

Double coupling heat, 2016-05-24 00:54

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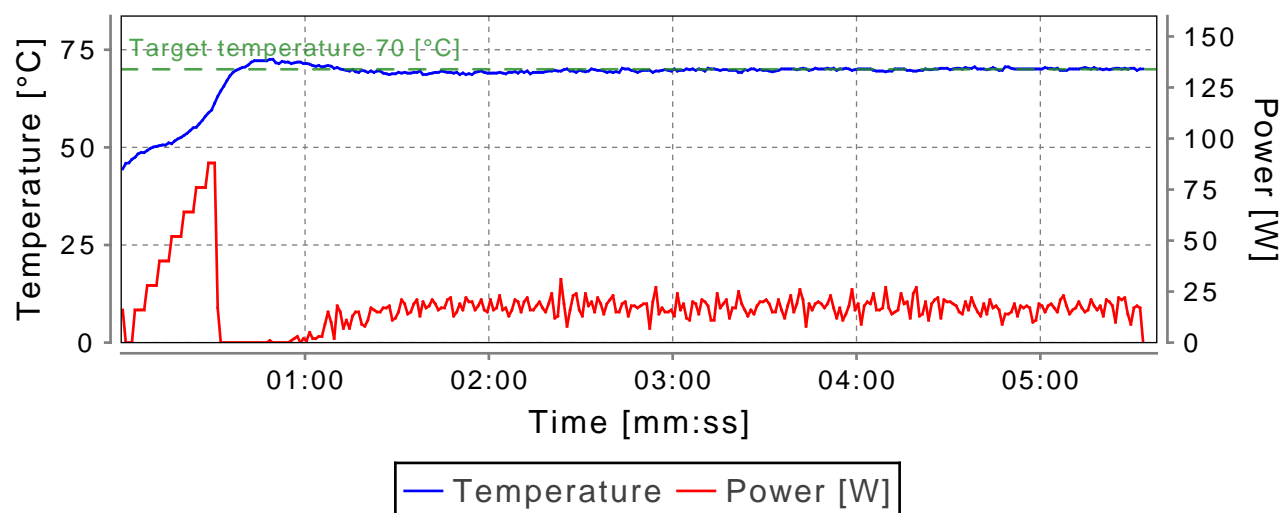


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 01:15

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

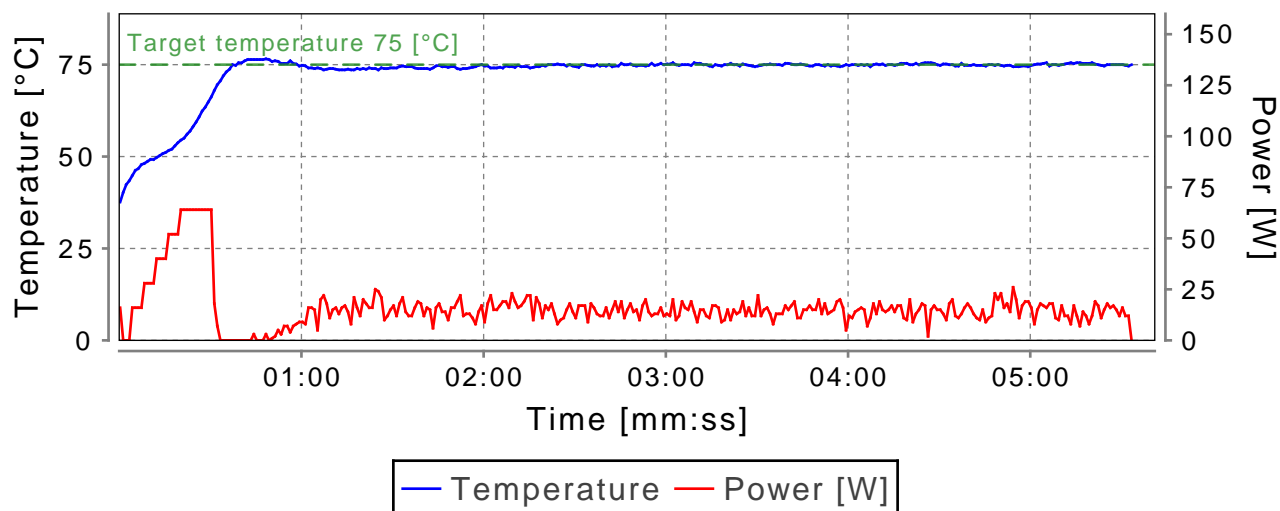


Cycle No: 17

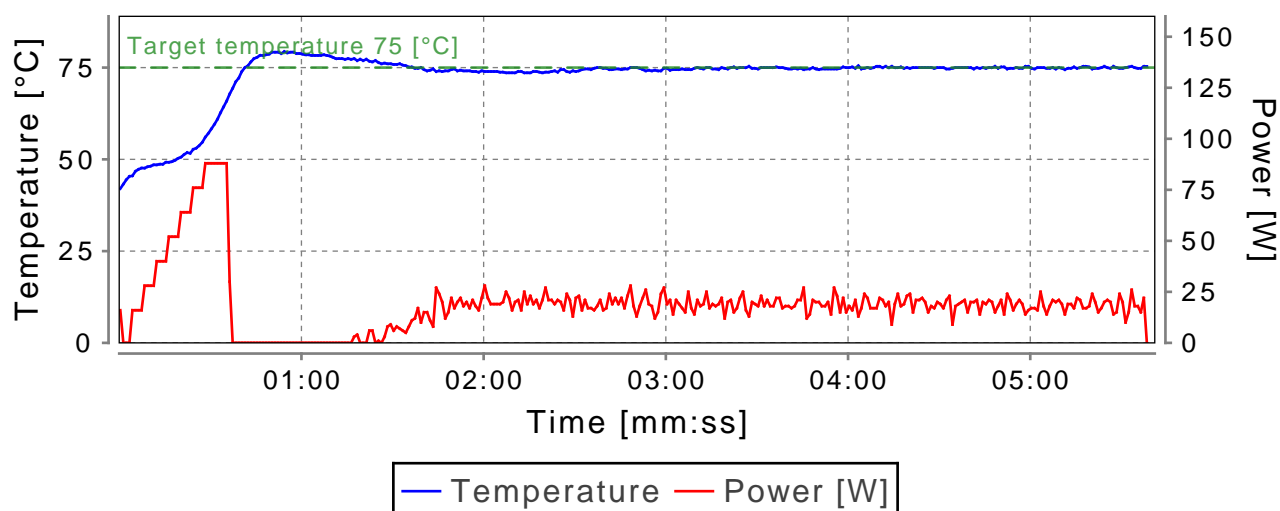
M (Fmoc-Met-OH)

Double coupling heat, 2016-05-24 01:28

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

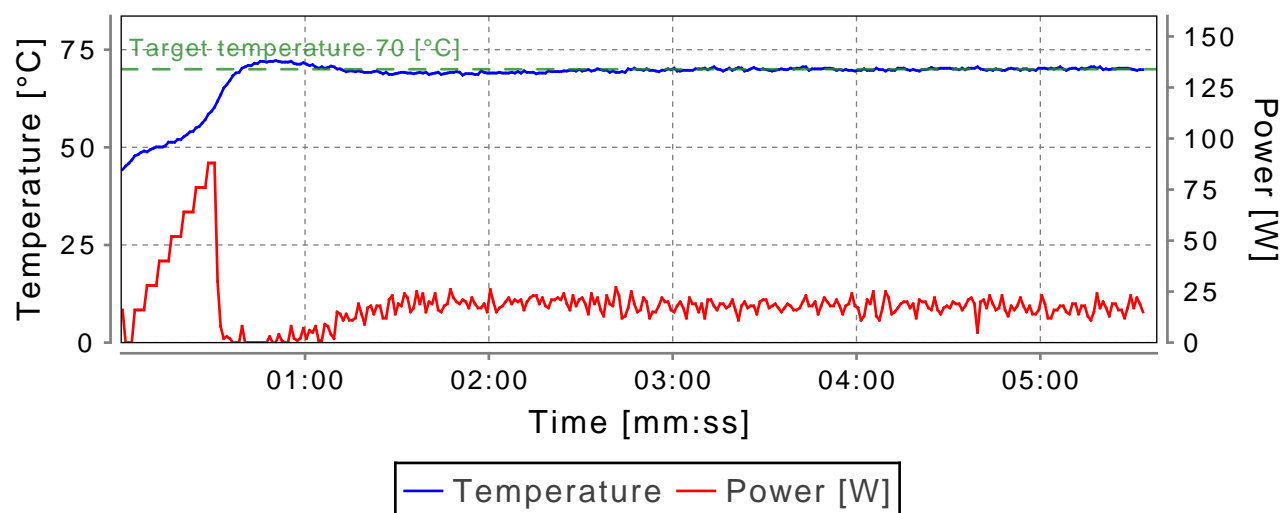


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 01:49

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

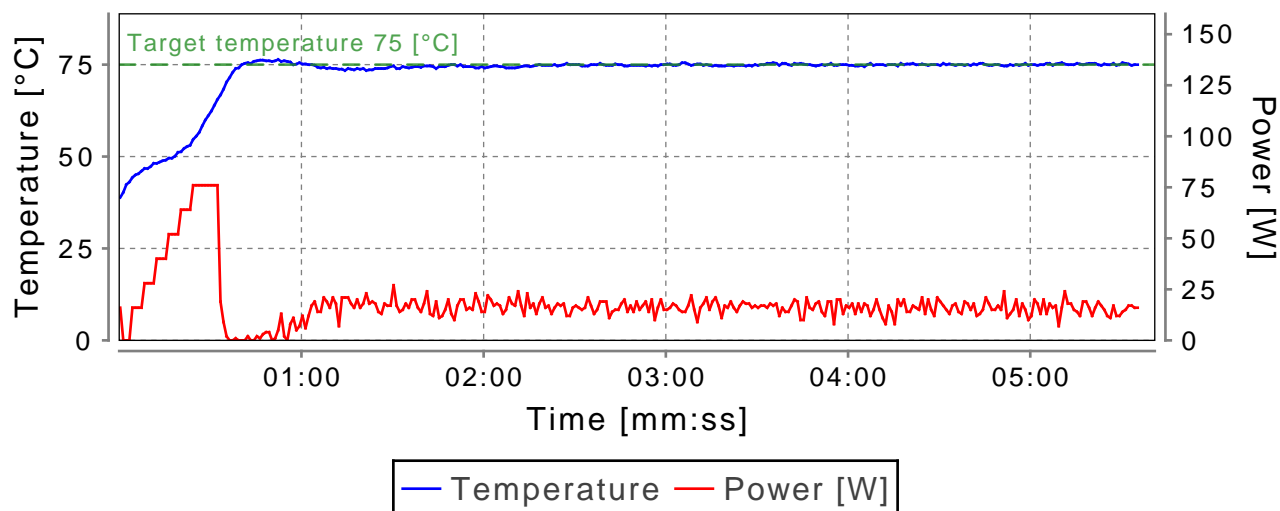


Cycle No: 18

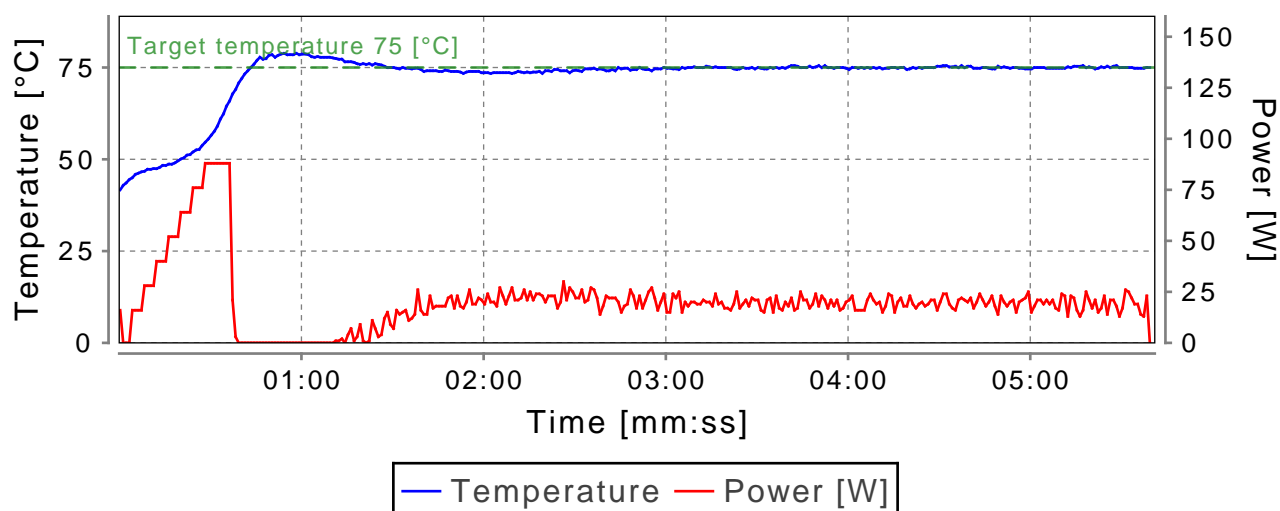
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-24 02:03

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

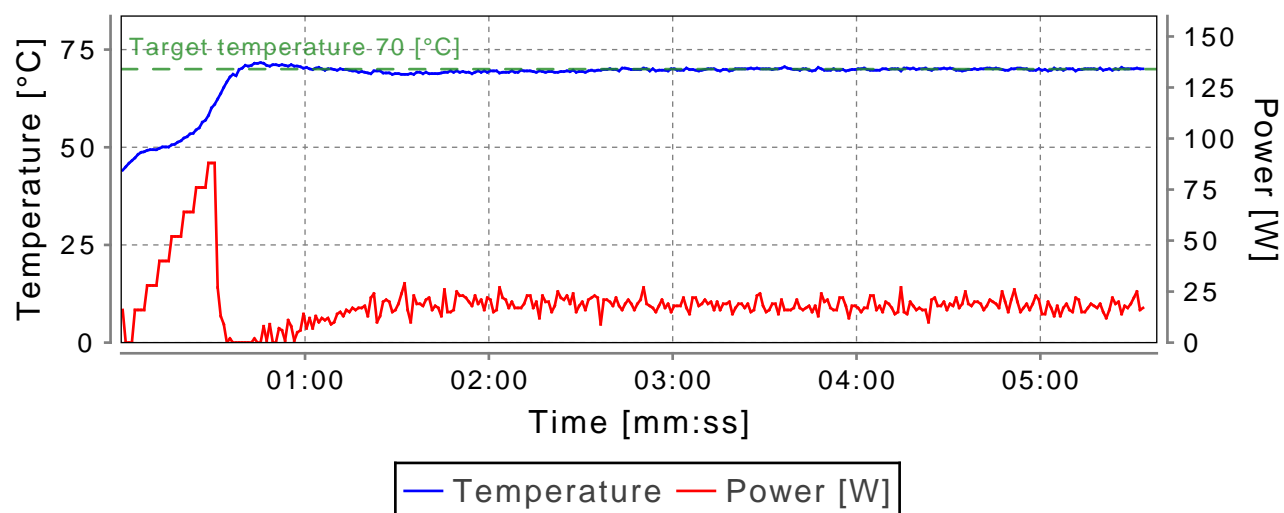


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 02:24

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

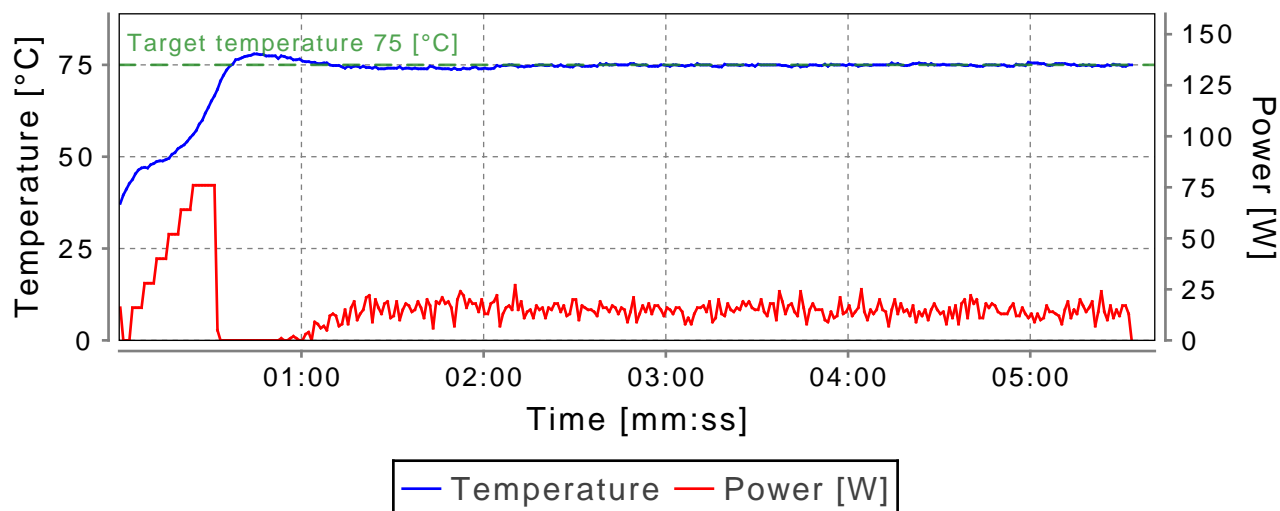


Cycle No: 19

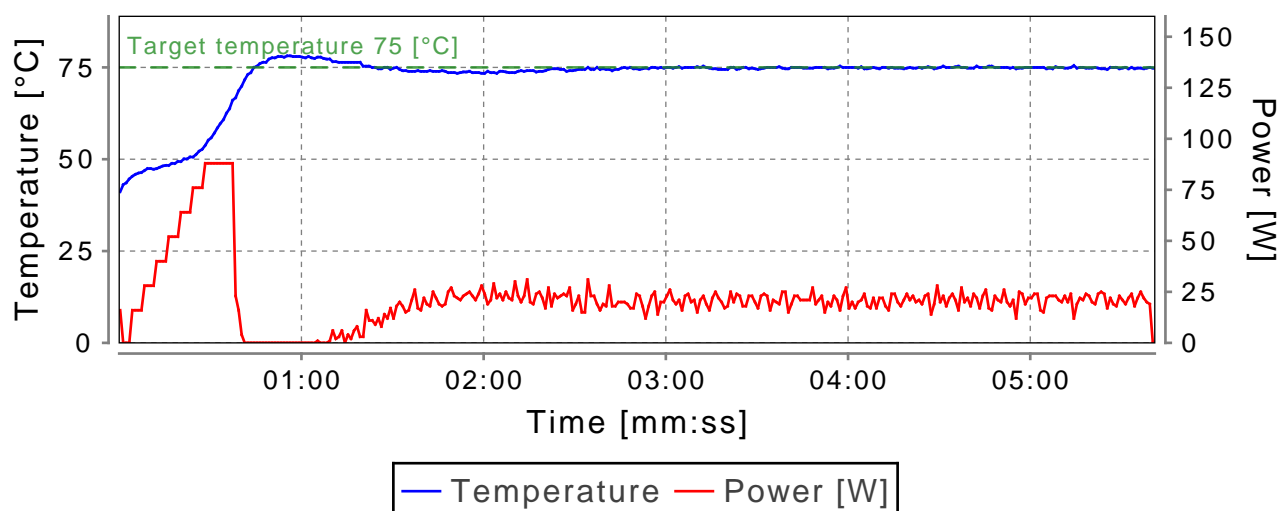
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-24 02:37

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

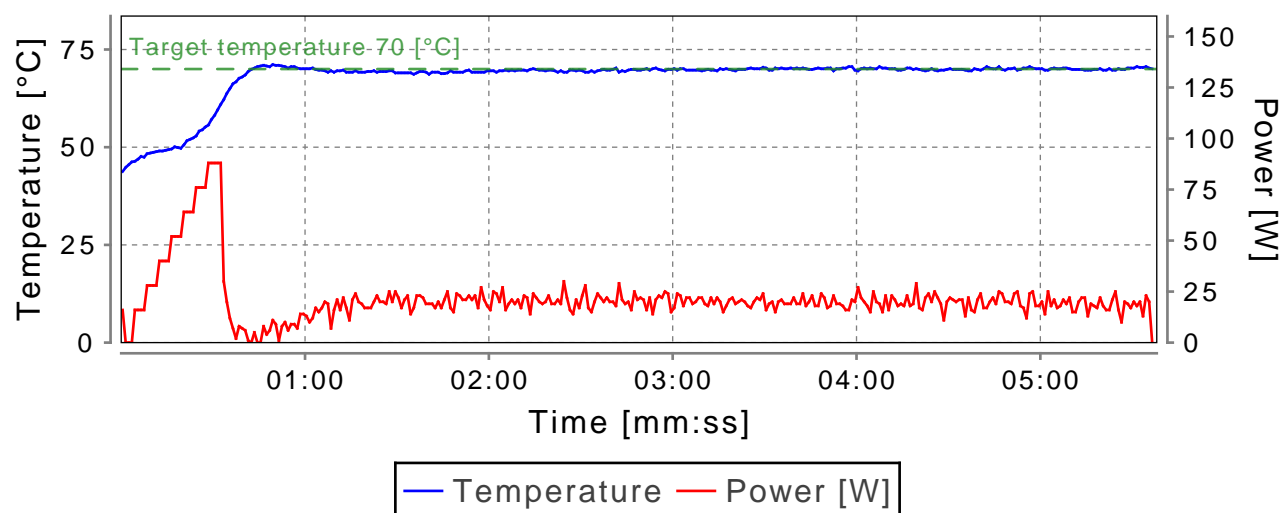


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 02:58

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

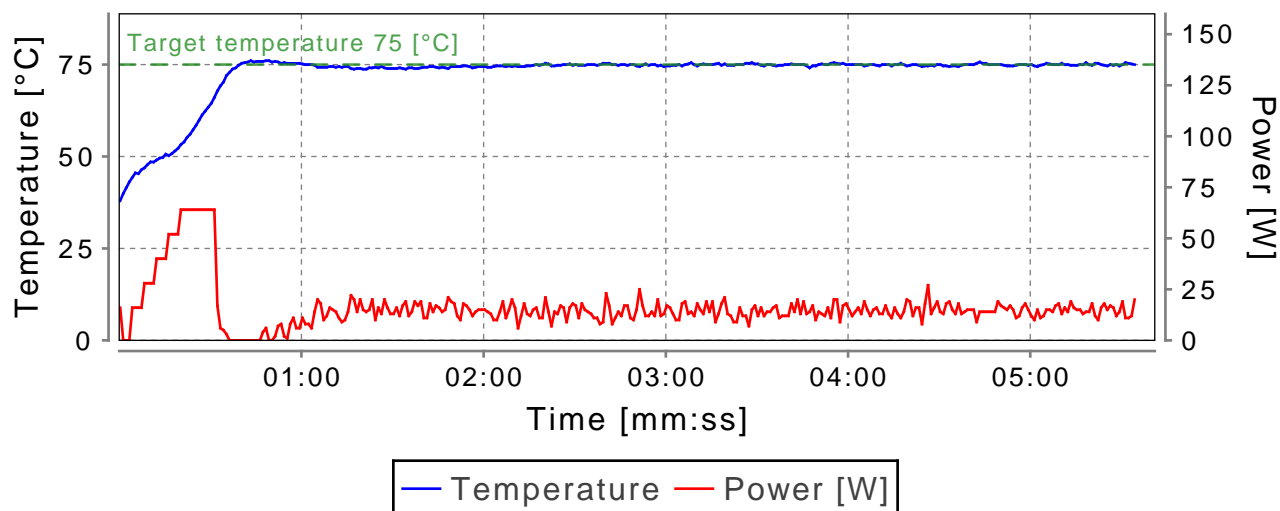


Cycle No: 20

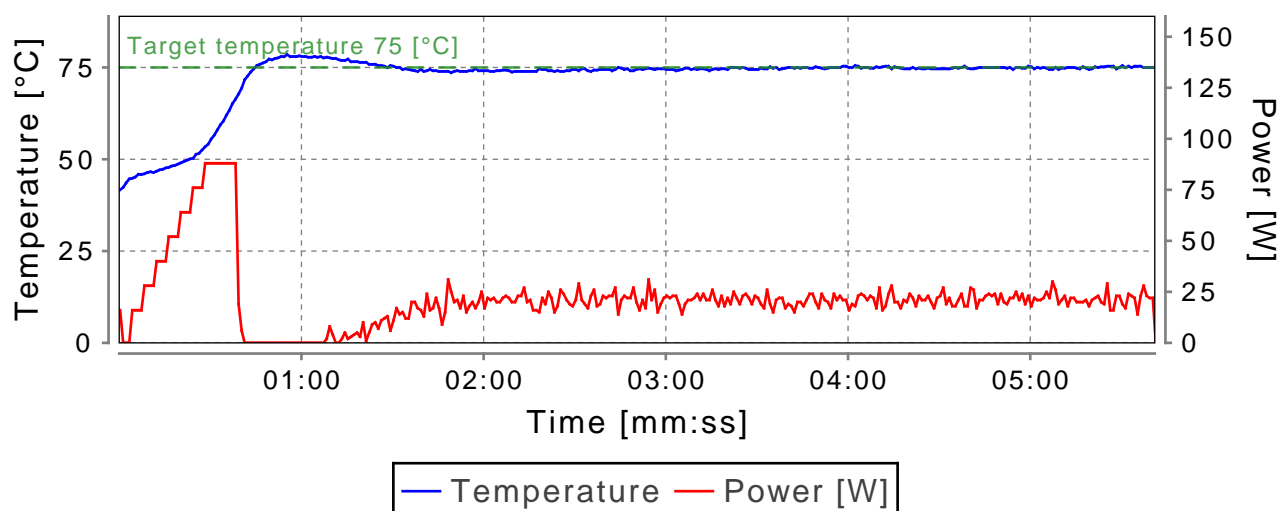
A (Fmoc-Ala-OH)

Double coupling heat, 2016-05-24 03:12

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

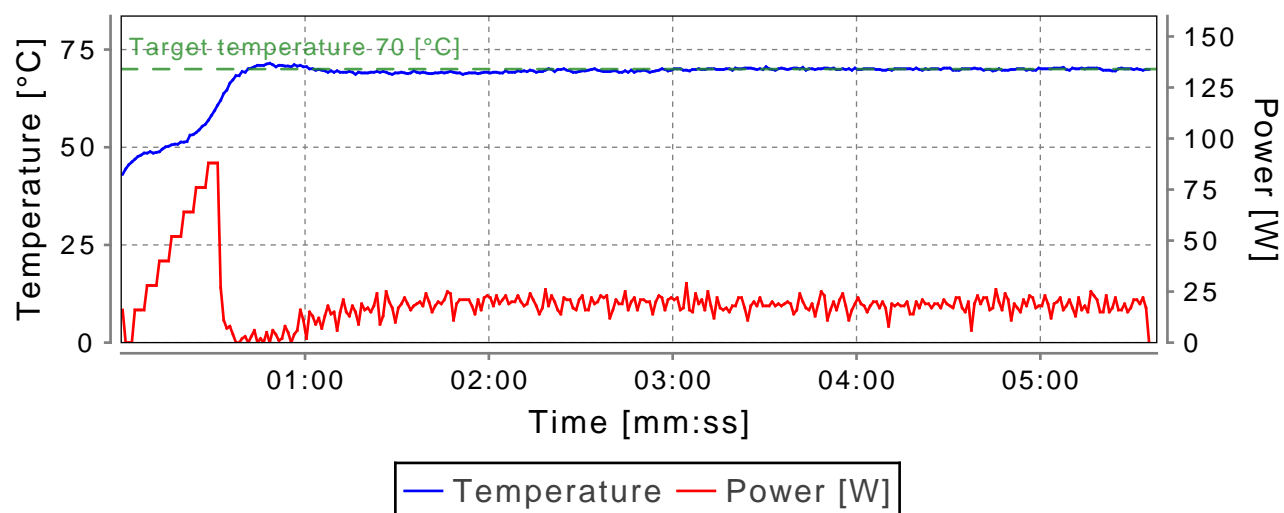


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 03:33

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

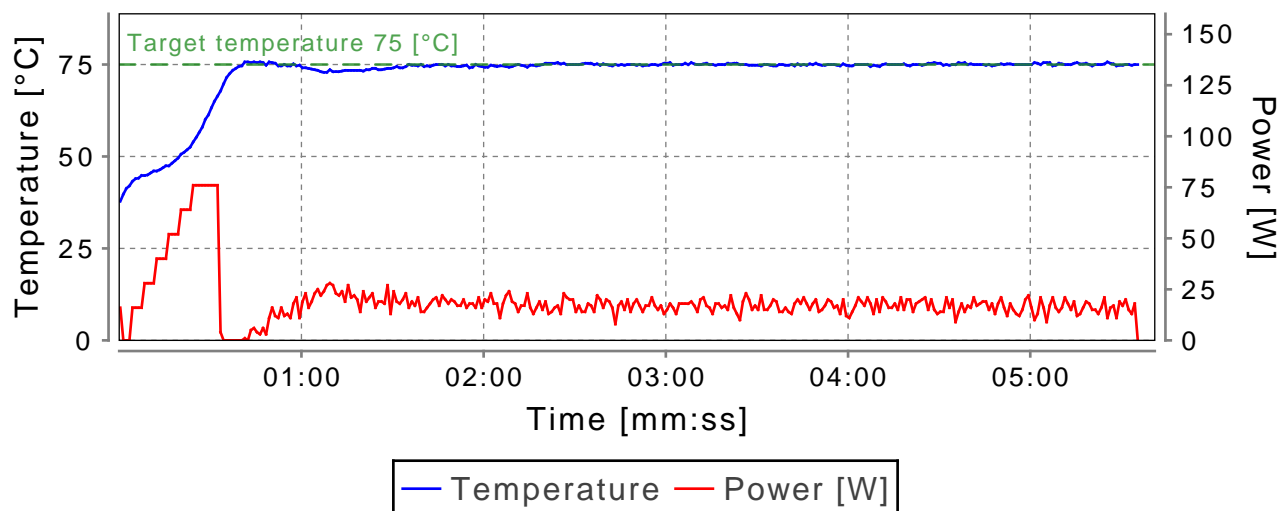


Cycle No: 21

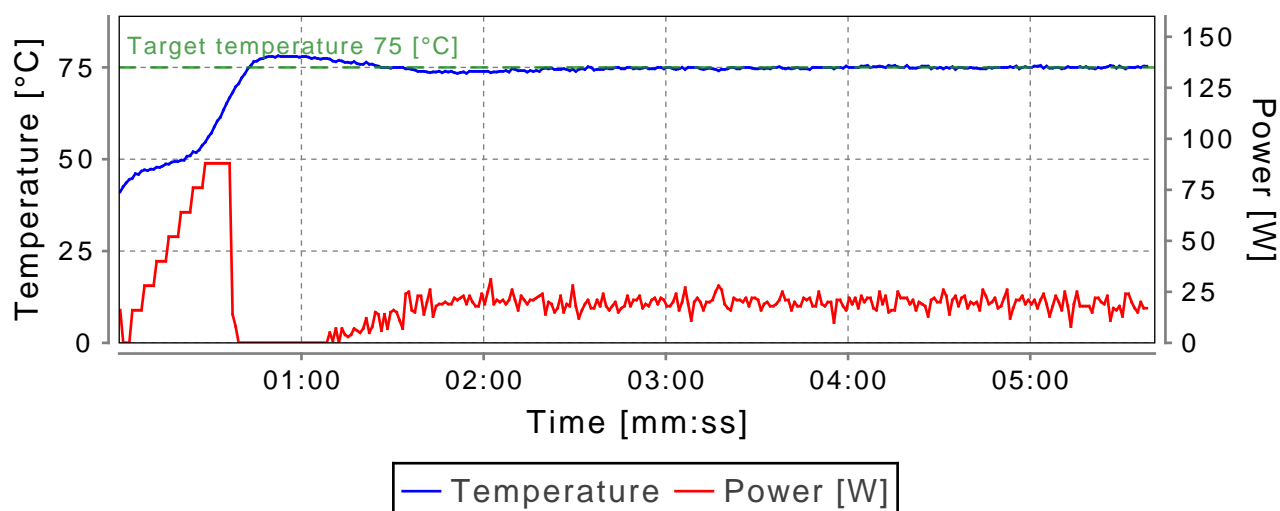
T (Fmoc-Thr(tBu)-OH)

Double coupling heat, 2016-05-24 03:46

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

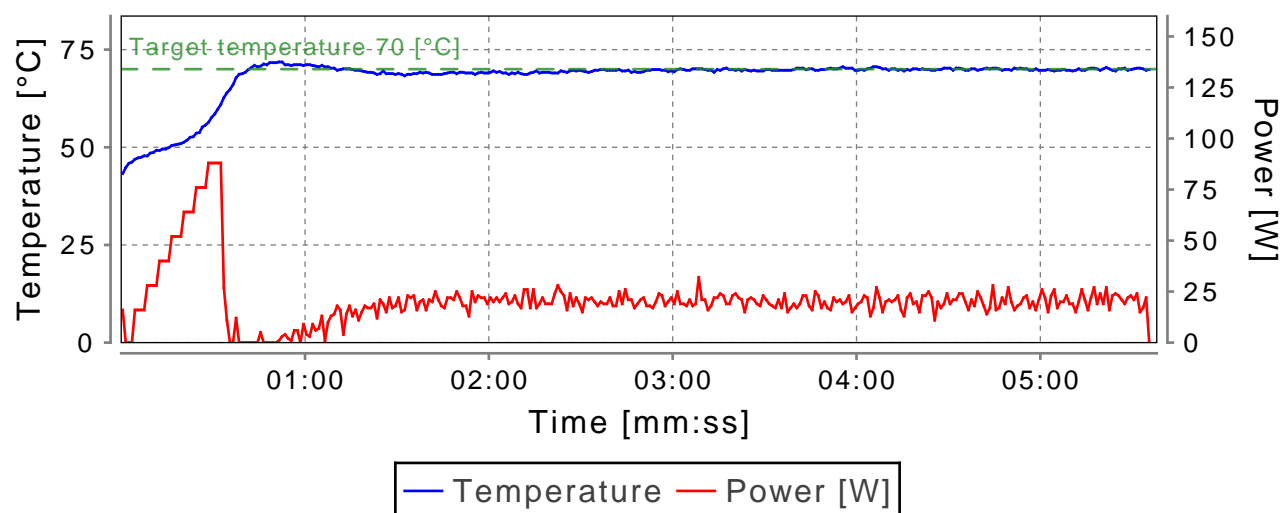


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 04:07

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

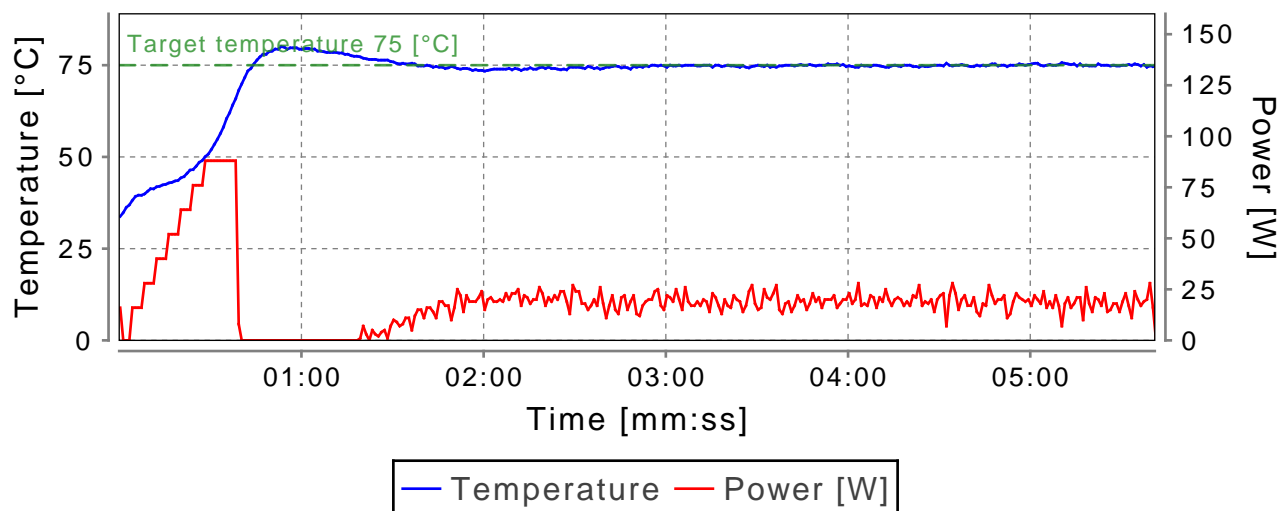


Cycle No: 22

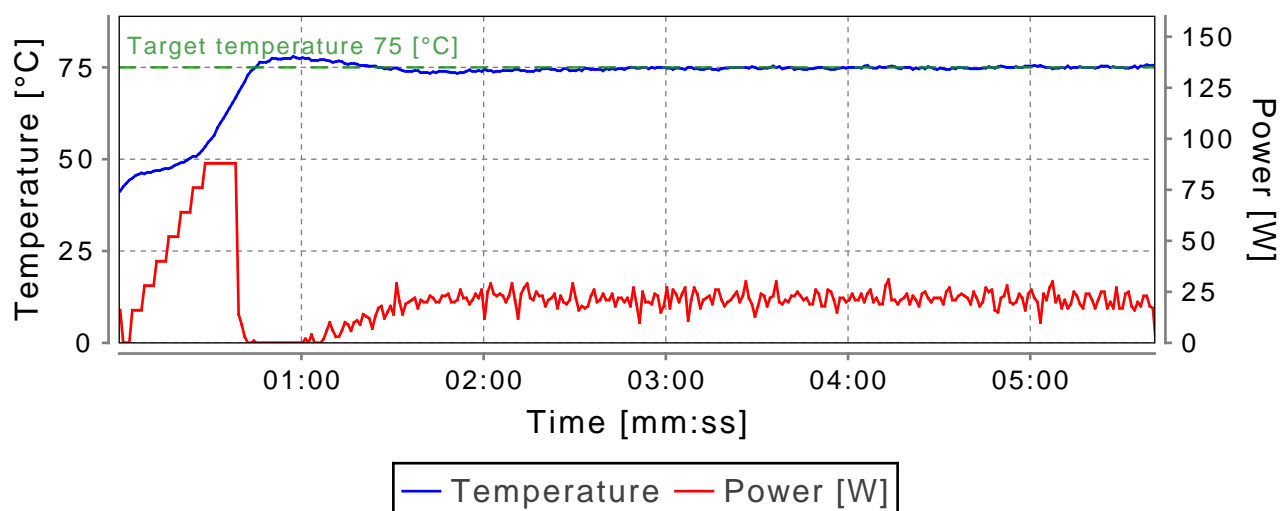
V (Fmoc-Val-OH)

Double coupling heat, 2016-05-24 04:21

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

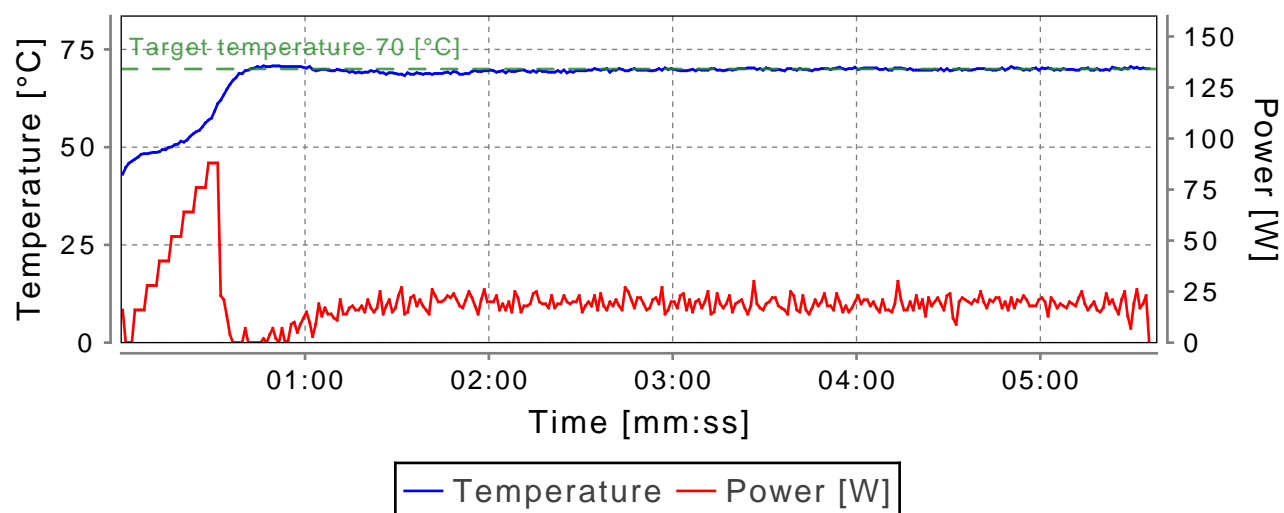


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 04:42

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

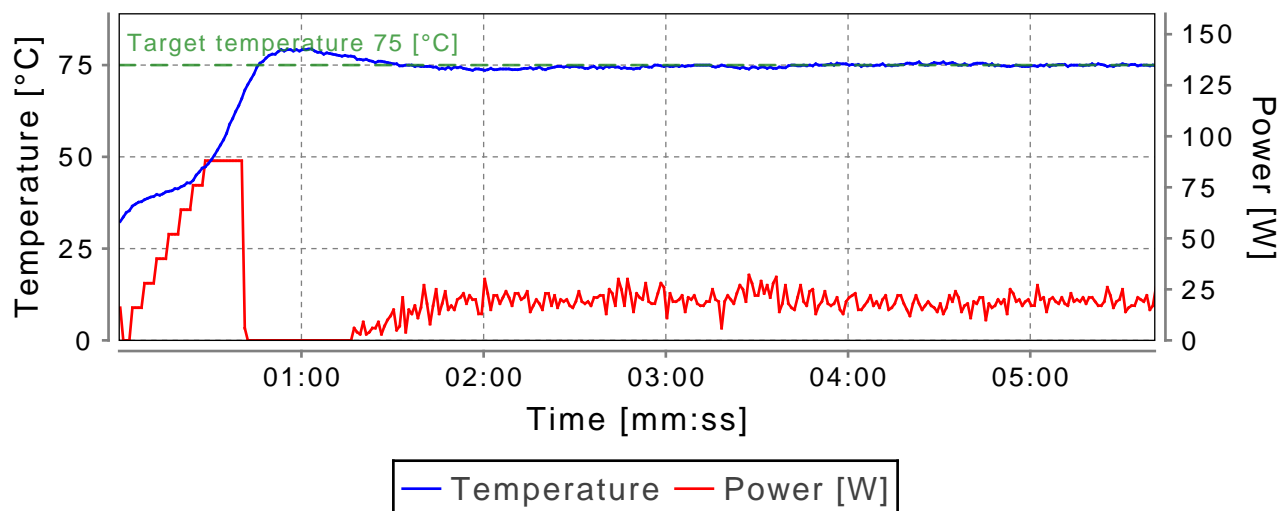


Cycle No: 23

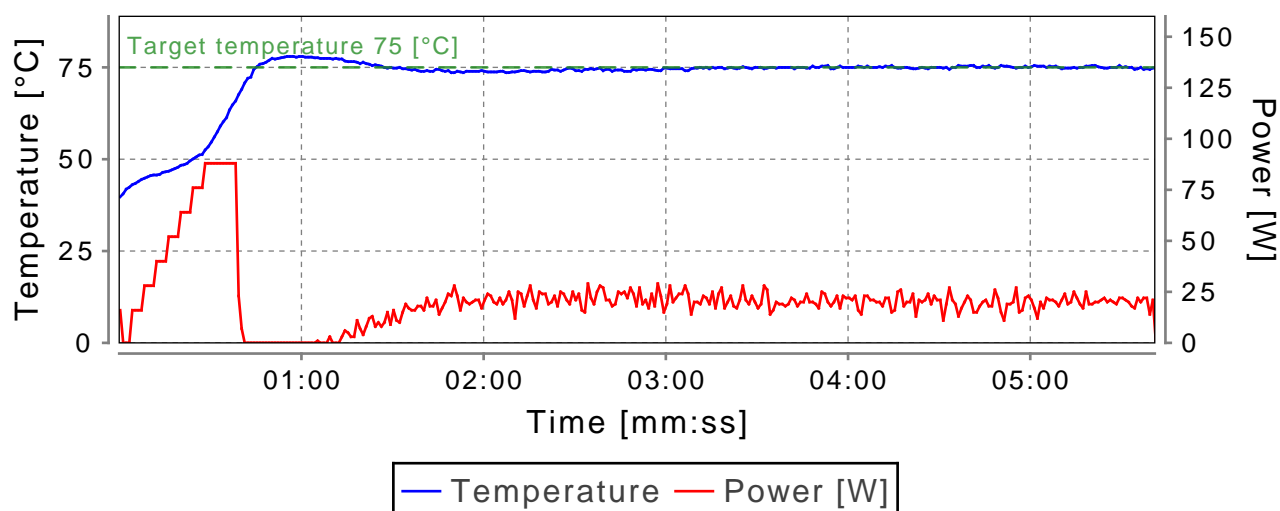
L (Fmoc-Leu-OH)

Double coupling heat, 2016-05-24 04:55

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

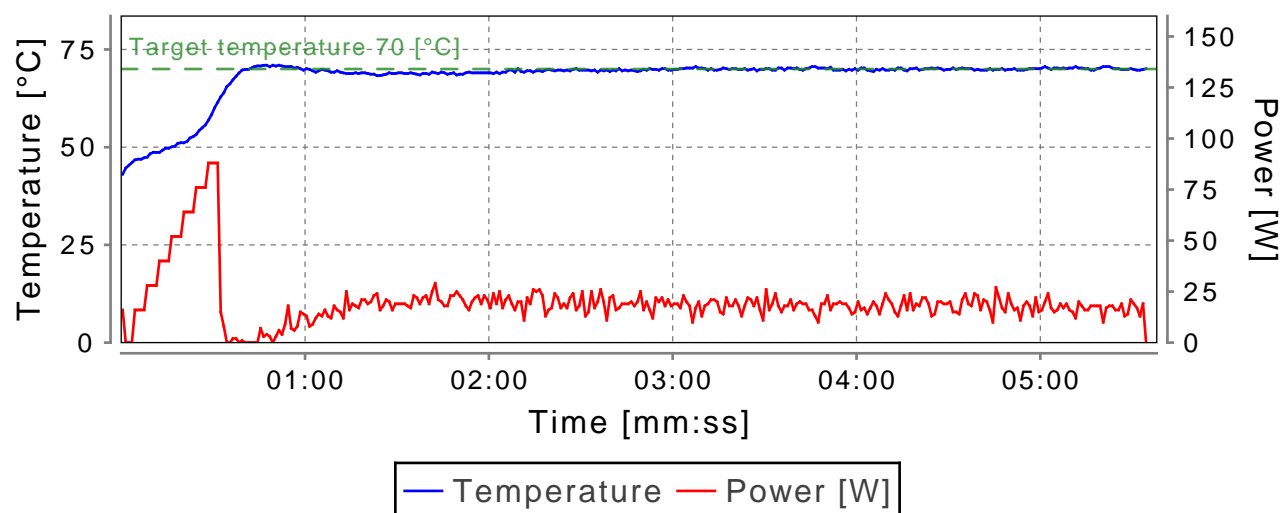


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 05:16

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

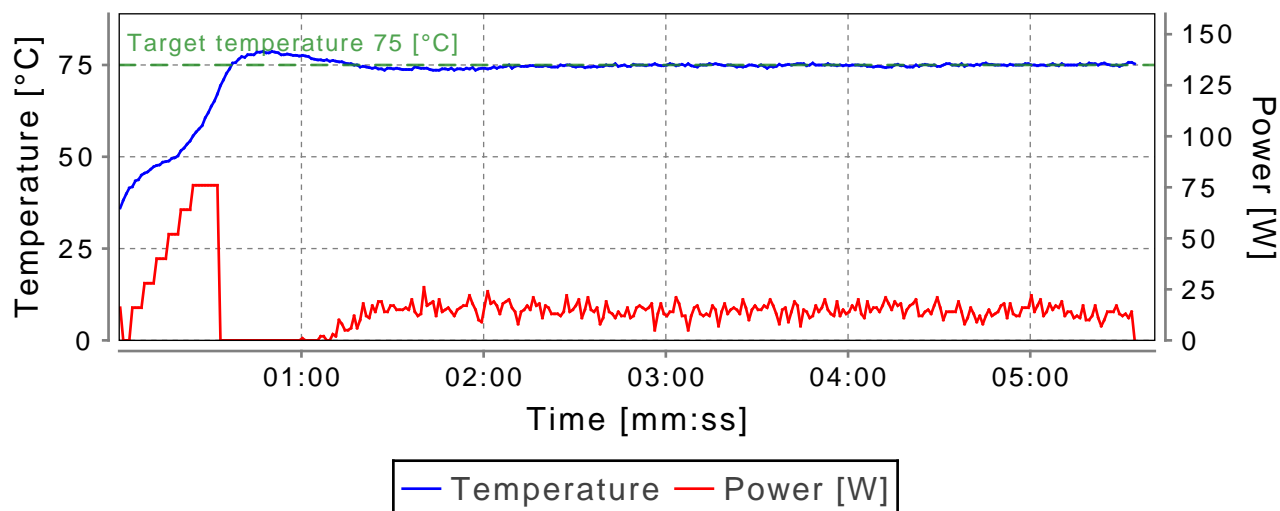


Cycle No: 24

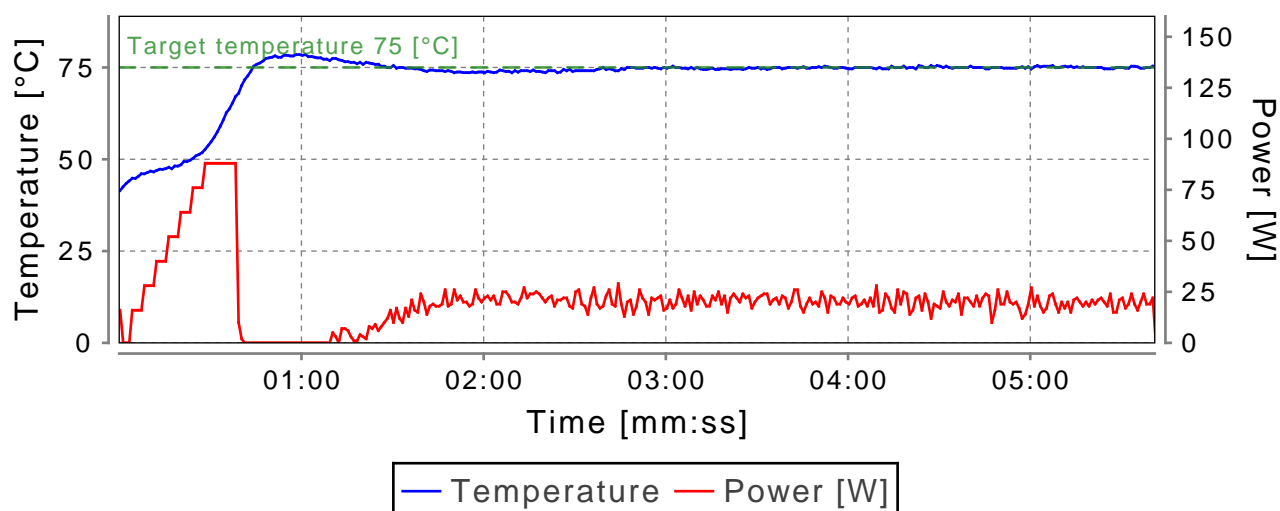
S (Fmoc-Ser(tBu)-OH)

Double coupling heat, 2016-05-24 05:30

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

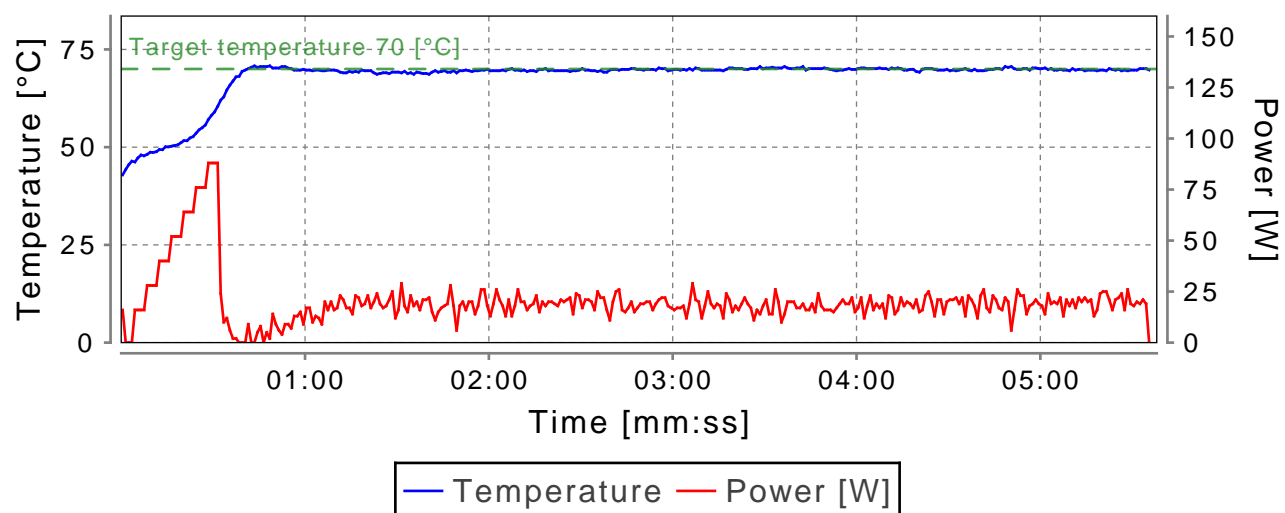


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 05:51

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

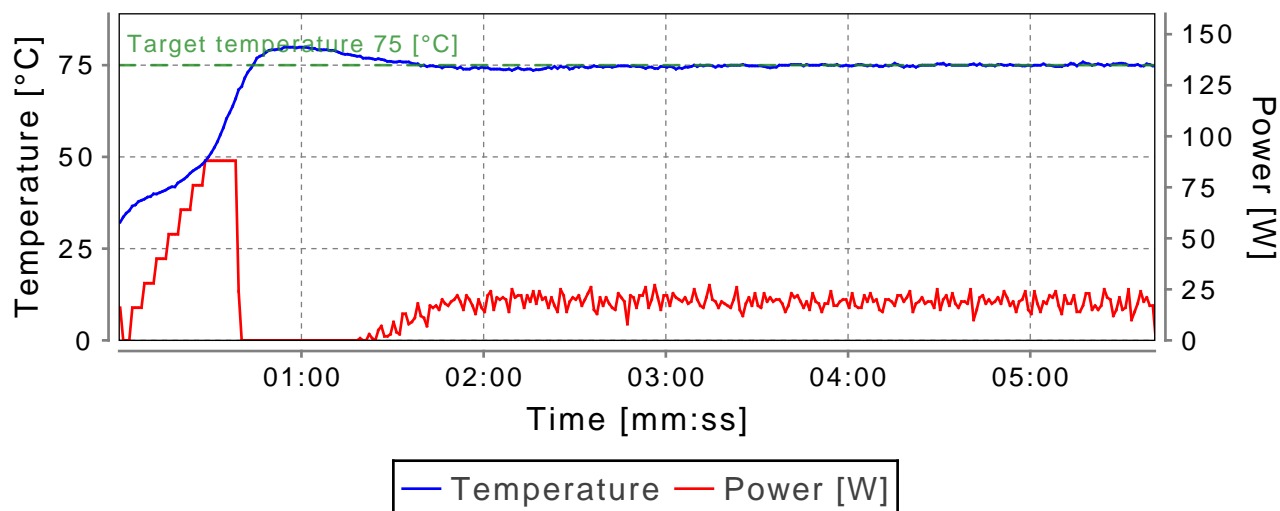


Cycle No: 25

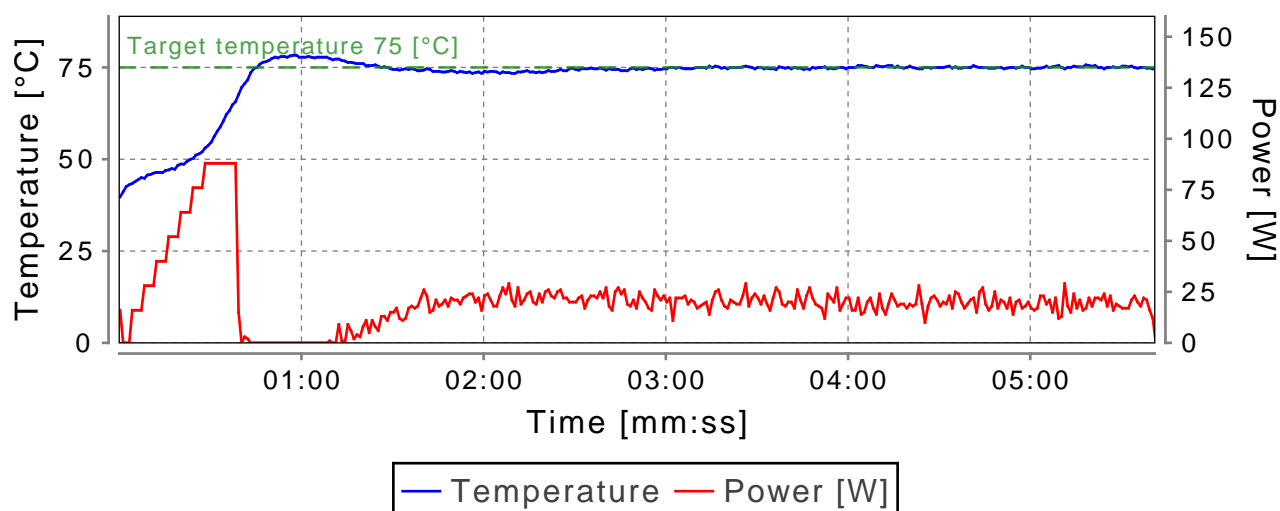
K (Fmoc-Lys(Boc)-OH)

Double coupling heat, 2016-05-24 06:04

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

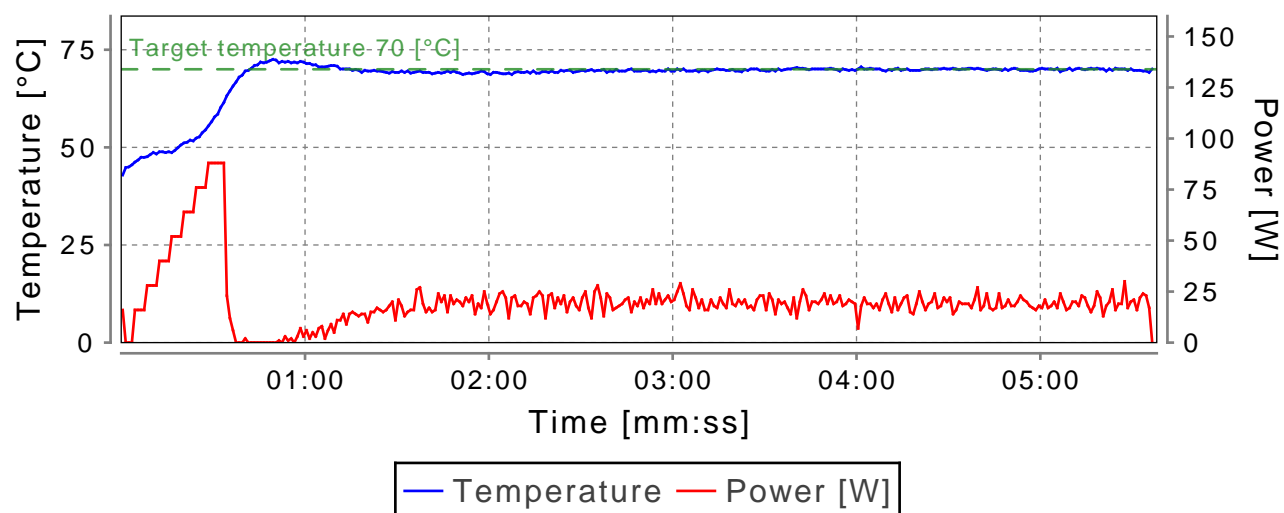


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 06:25

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

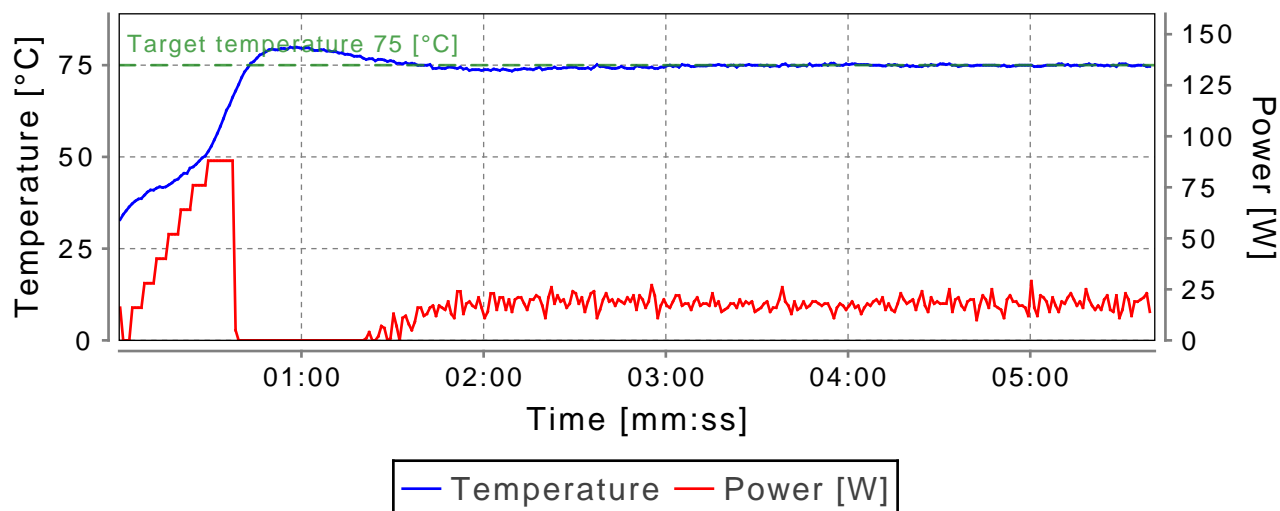


Cycle No: 26

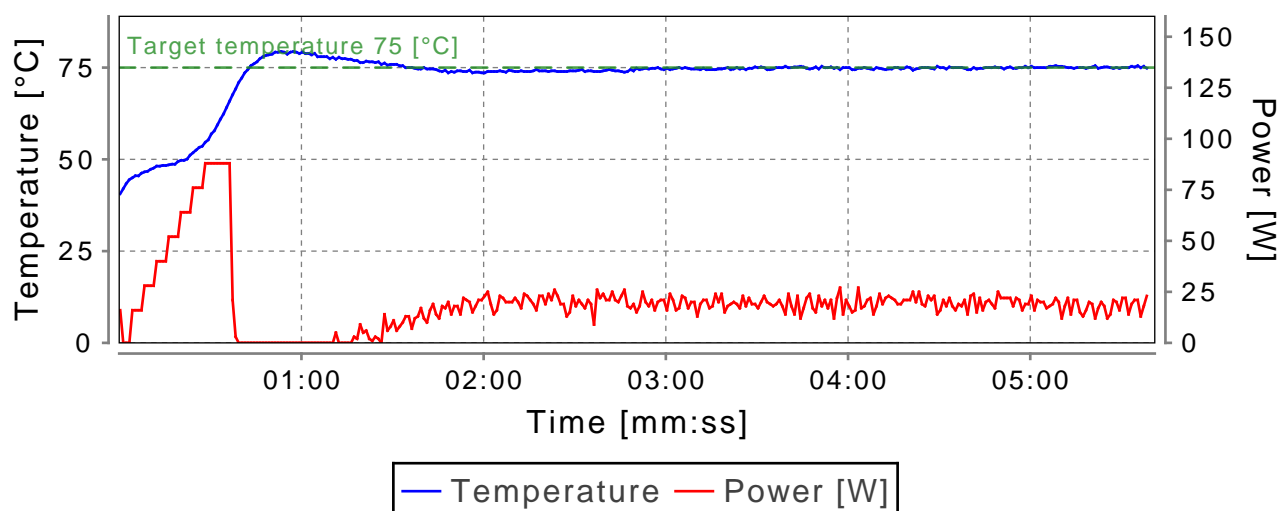
K (Fmoc-Lys(Boc)-OH)

Double coupling heat, 2016-05-24 06:39

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

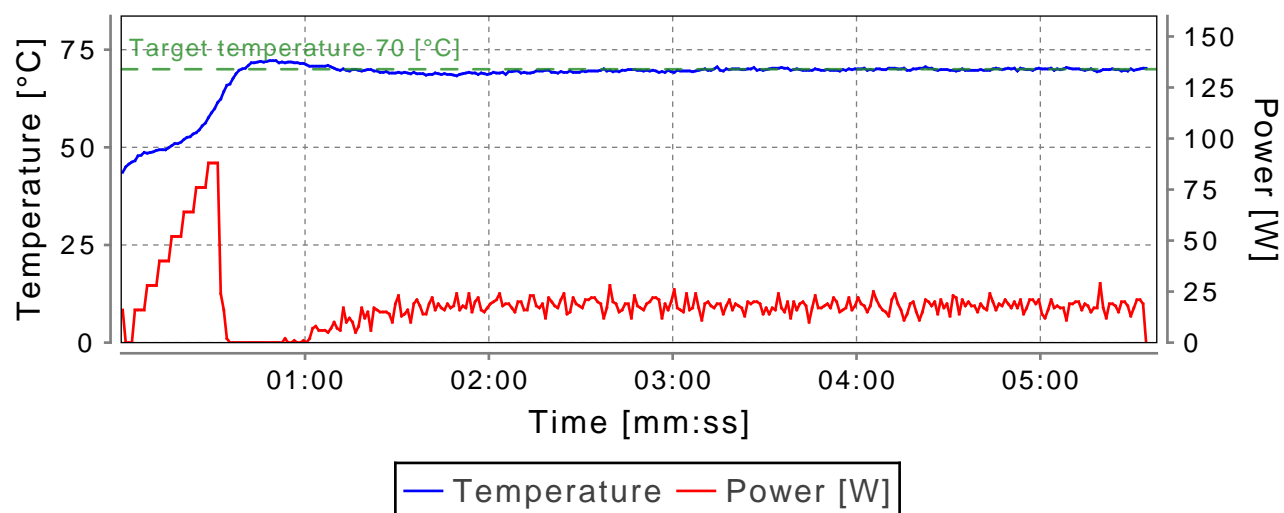


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 07:00

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On

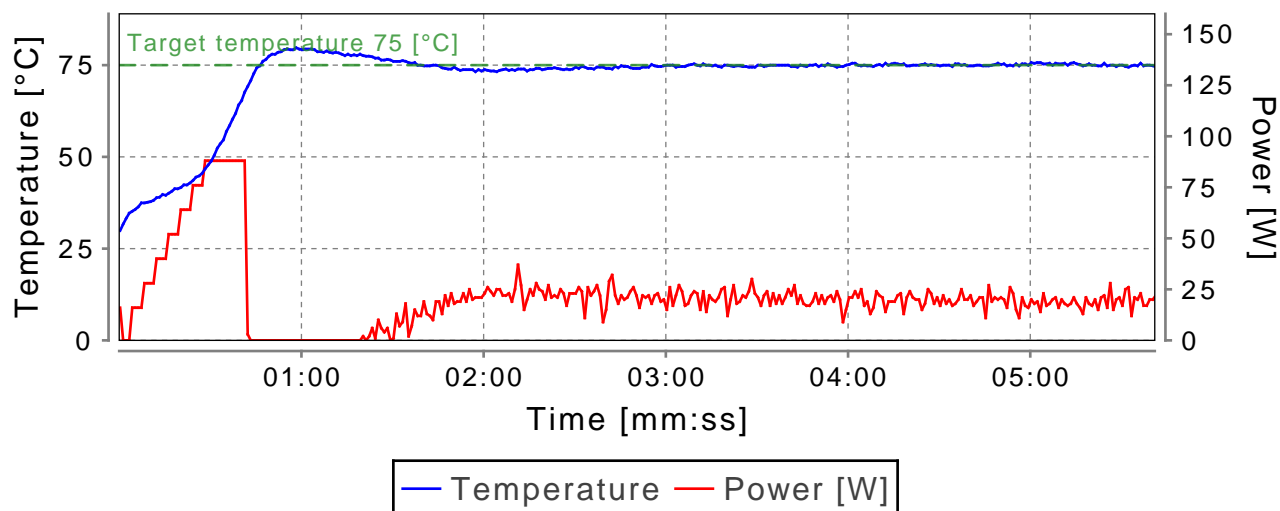


Cycle No: 27

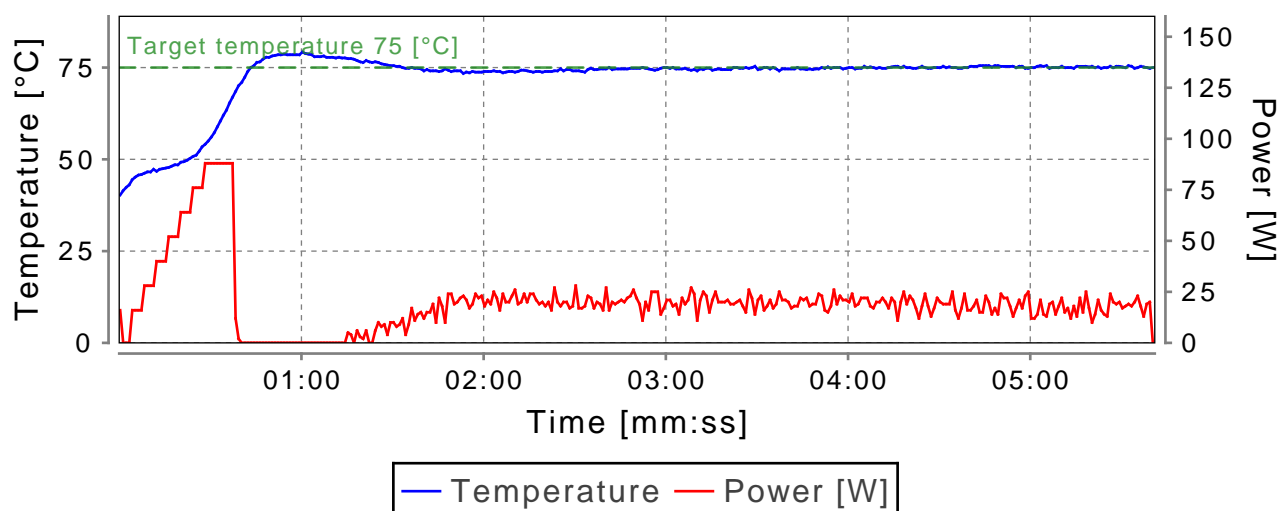
K (Fmoc-Lys(Boc)-OH)

Double coupling heat, 2016-05-24 07:13

Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On

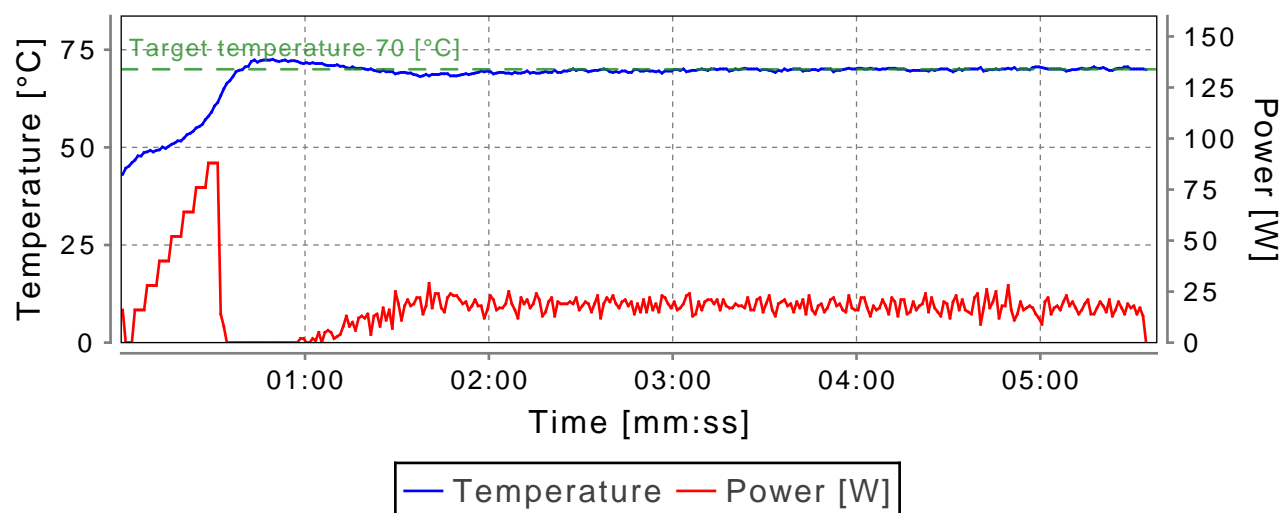


Reaction: Temp: 75°C Time (mm:ss): 05:00 Oscillating Mixer: On



Single deprotect. Piperidine, 2016-05-24 07:35

Reaction: Temp: 70°C Time (mm:ss): 05:00 Oscillating Mixer: On



final wash DCM MeOH, 2016-05-24 07:48