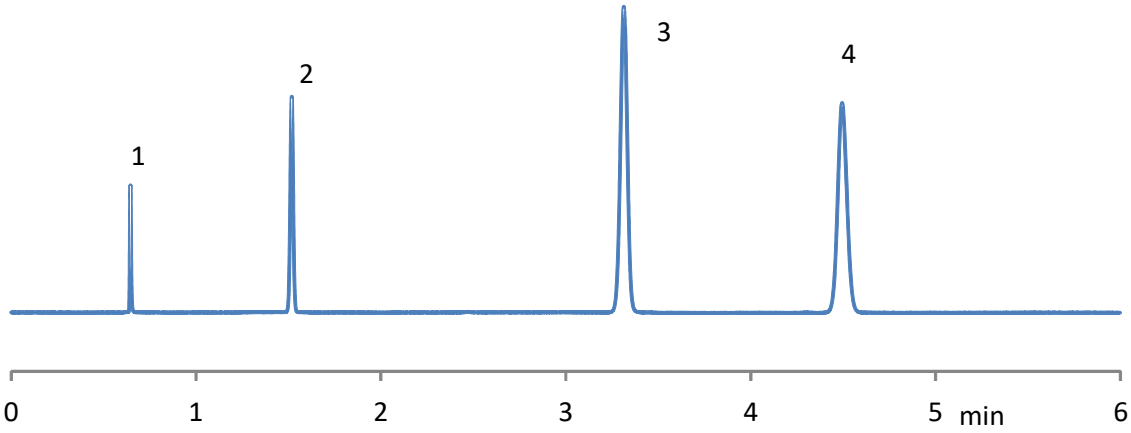
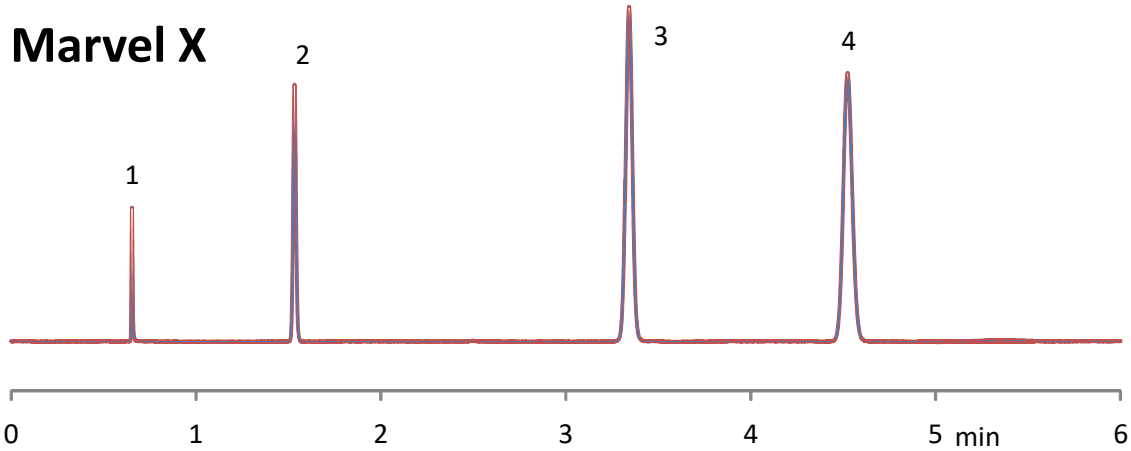
SunShell C18 2.6 µm, 150 x 4.6 mm

SUS 0.1mm

Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

Measurement condition

Column:	SunShell C18, 2.6 µm 150 x 4.6 mm
Mobile phase:	Acetonitrile/water=70/30
Flow rate:	1.80 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.4 µL
Sample:	1=Uracil 2=Ethylbenzene 3=Acenaphthene 4=Butylbenzene

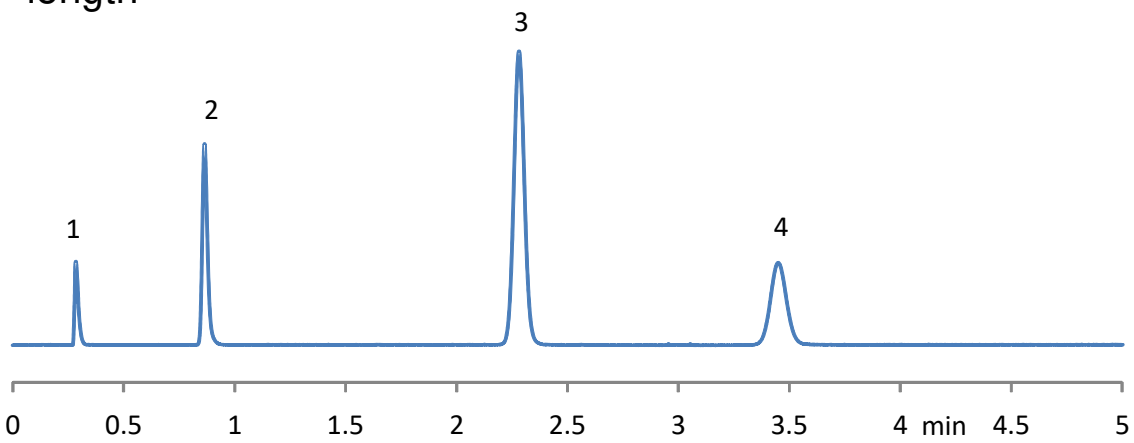
SunShell C18 2.6 µm, 150 x4.6 mm

	Peak No.	SUS	Marvel X
Efficiency	1	41900	48912
	2	42934	44037
	3	38989	40899
	4	38125	39947
Tailing factor	1	1.176	1.207
	2	1.015	1.024
	3	1.001	1.020
	4	1.048	1.090
Peak width, $h_{0.5}$ (min)	1	0.0074	0.0070
	2	0.0172	0.0170
	3	0.0395	0.0390
	4	0.0542	0.0533

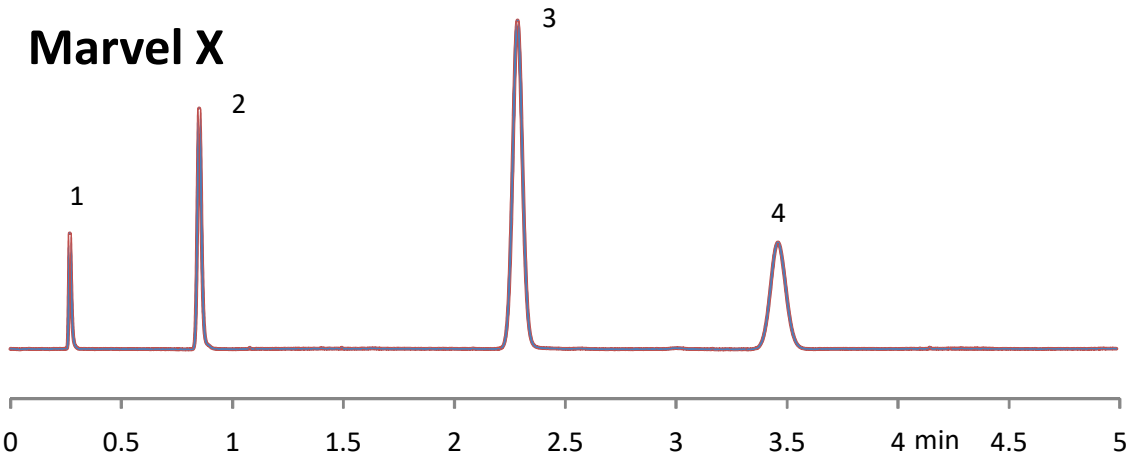
SunShell C18 2.6 µm, 50 x 2.1 mm

SUS 0.1mm

Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

Measurement condition

Column:	SunShell C18, 2.6 µm 50 x 2.1 mm
Mobile phase:	Acetonitrile/water=60/40
Flow rate:	0.30 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.4 µL
Sample:	1=Uracil 2=Ethylbenzene 3=Acenaphthene 4=Butylbenzene

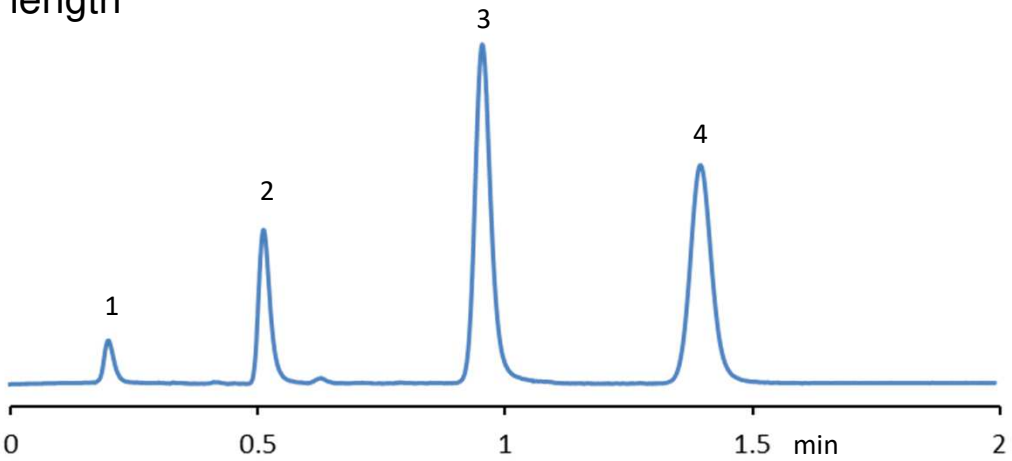
SunShell C18 2.6 µm, 50 x 2.1 mm

	Peak No.	SUS	Marvel X	
Efficiency	1	1107	2614	136% up
	2	6852	10146	48% up
	3	10976	11907	8% up
	4	10768	11129	3% up
Tailing factor	1	0.939	0.913	
	2	1.320	1.210	
	3	1.057	1.037	
	4	1.041	1.051	
Peak width, $h_{0.5}$ (min)	1	0.0201	0.0124	
	2	0.0246	0.0199	
	3	0.0513	0.0493	
	4	0.0783	0.0772	

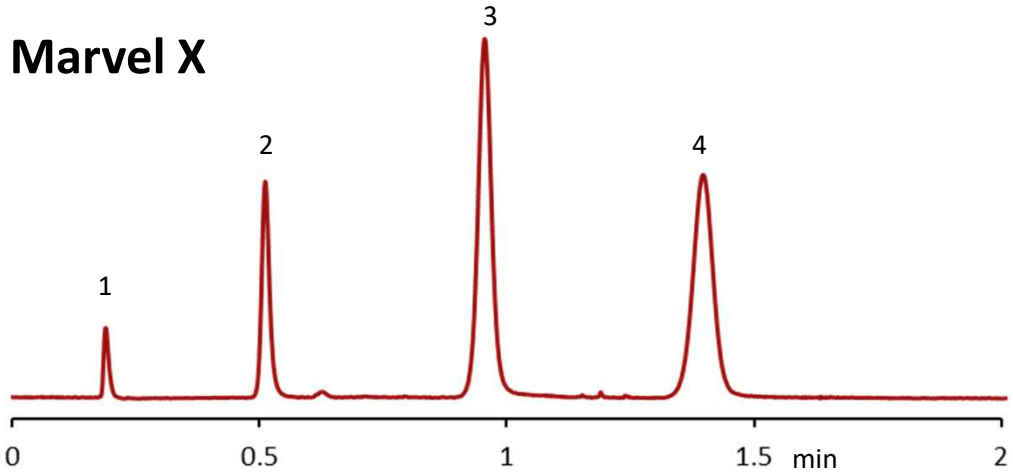
SunShell C8 2.6 µm, 30 x 2.1 mm

SUS 0.1mm

Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

Measurement condition

Column:	SunShell C8, 2.6 µm 30 x 2.1 mm
Mobile phase:	Acetonitrile/water=60/40
Flow rate:	0.30 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.4 µL
Sample:	1=Uracil 2=Ethylbenzene 3=Acenaphthene 4=Butylbenzene

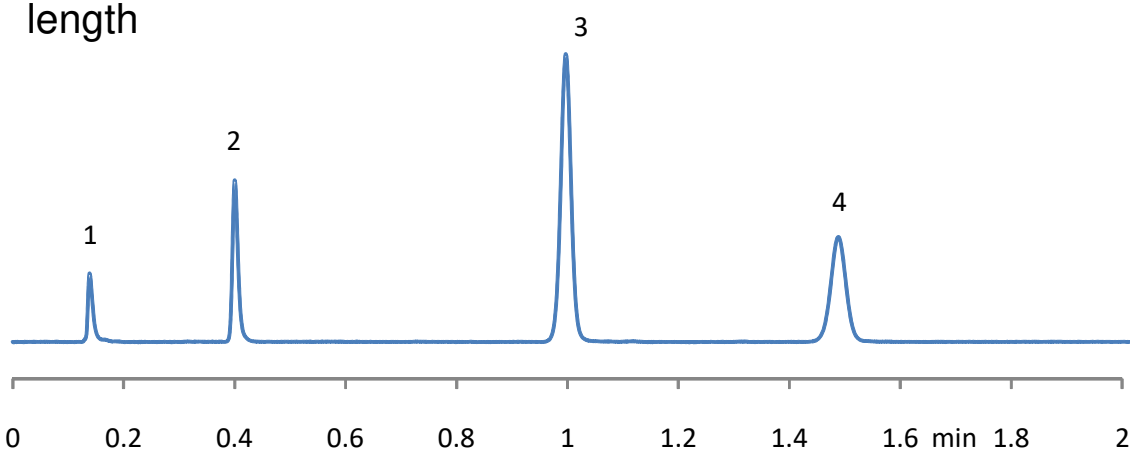
SunShell C8 2.6 µm, 30 x 2.1 mm

	Peak No.	SUS	Marvel X
Efficiency	1	473	1405
	2	2395	5245
	3	4377	6030
	4	4991	5536
Tailing factor	1	1.225	1.037
	2	1.395	1.235
	3	1.266	1.062
	4	1.118	1.028
Peak width, $h_{0.5}$ (min)	1	0.0205	0.0119
	2	0.0246	0.0166
	3	0.0338	0.0288
	4	0.0463	0.0440

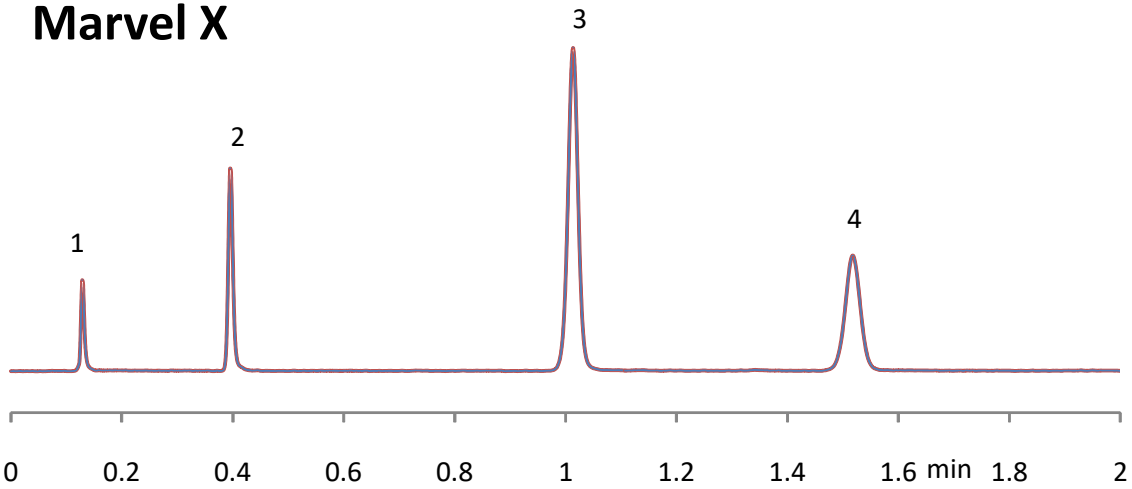
SunShell C18 2.0 µm, 50 x 2.1 mm

SUS 0.1mm

Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

Measurement condition

Column:	SunShell C18, 2.0 µm 50 x 2.1 mm
Mobile phase:	Acetonitrile/water=60/40
Flow rate:	0.60 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.4 µL
Sample:	1=Uracil 2=Ethylbenzene 3=Acenaphthene 4=Butylbenzene

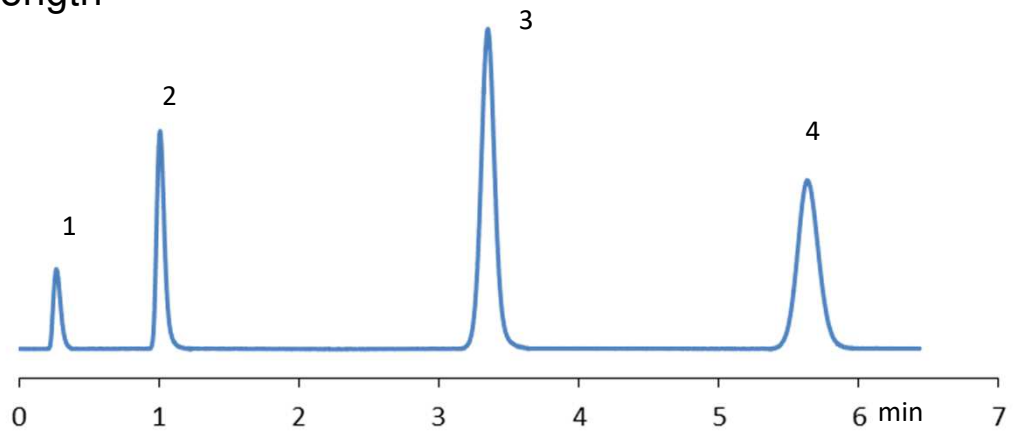
SunShell C18 2.0 µm, 50 x 2.1 mm

	Peak No.	SUS	Marvel X	
Efficiency	1	1208	3593	197% up
	2	7720	12625	64% up
	3	13589	15153	12% up
	4	13936	14733	6% up
Tailing factor	1	2.326	1.445	
	2	1.401	1.286	
	3	1.048	1.006	
	4	0.997	0.972	
Peak width, $h_{0.5}$ (min)	1	0.0094	0.0051	
	2	0.0107	0.0083	
	3	0.0201	0.0194	
	4	0.0297	0.0295	

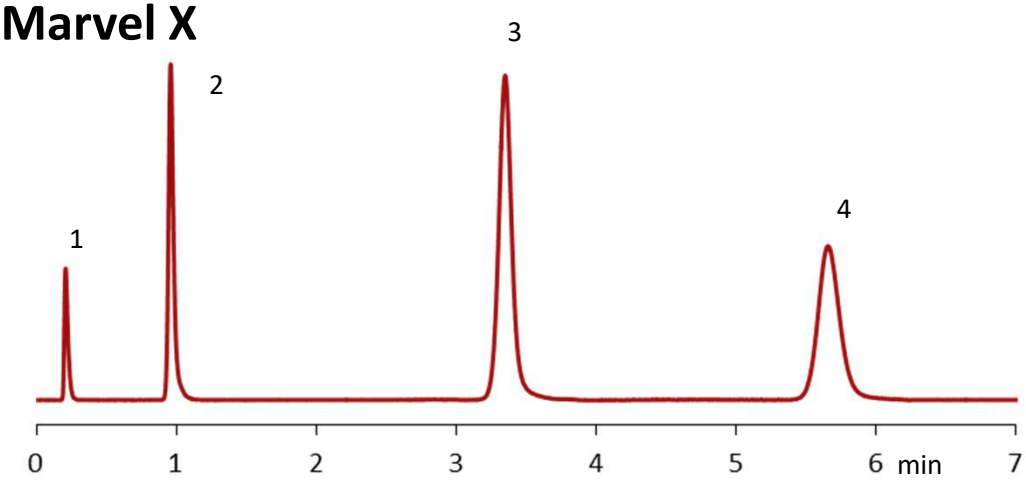
SunShell C18 2.6 µm, 50 x 1.0 mm

SUS 0.1mm

Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

Measurement condition

Column:	SunShell C18, 2.6 µm 50 x 1.0 mm
Mobile phase:	Acetonitrile/water=50/50
Flow rate:	0.10 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.2 µL
Sample:	1=Uracil
	2=Ethylbenzene
	3=Acenaphthene
	4=Butylbenzene

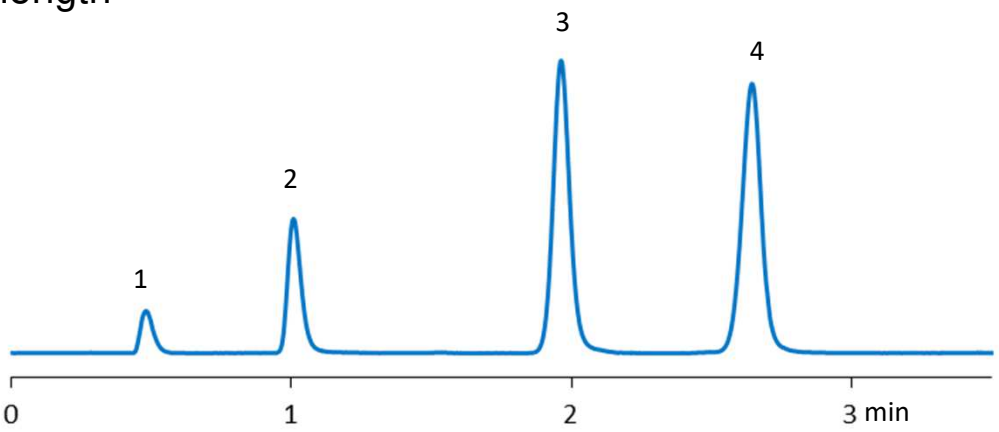
SunShell C18 2.6 µm, 50 x 1.0 mm

	Peak No.	SUS	Marvel X	
Efficiency	1	118	323	174% up
	2	1544	3725	141% up
	3	5561	6607	19% up
	4	6294	6469	3% up
Tailing factor	1	1.39	1.72	
	2	1.34	1.48	
	3	1.08	1.12	
	4	1.09	1.15	
Peak width, $h_{0.5}$ (min)	1	0.059	0.034	
	2	0.060	0.037	
	3	0.106	0.097	
	4	0.167	0.165	

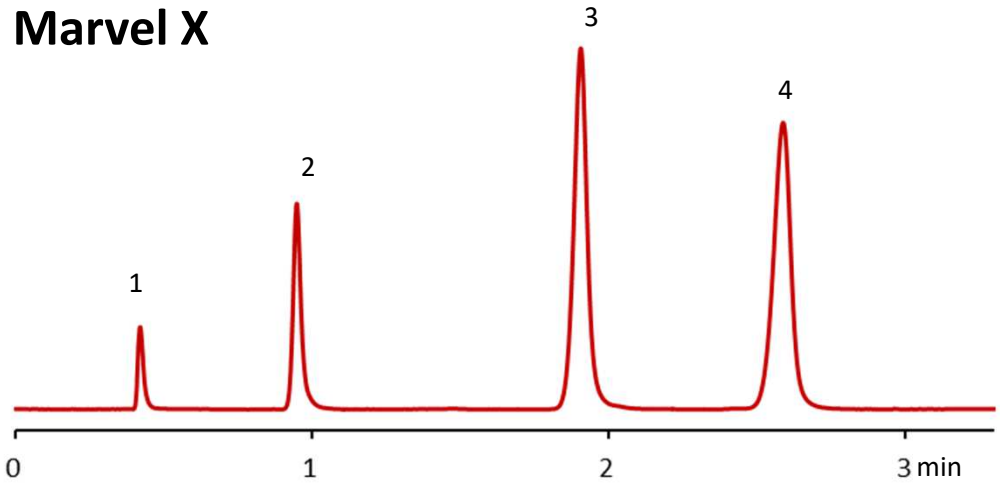
SunShell RP-AQUA 2.6 µm, 100 x 1.0 mm

SUS 0.1mm

Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

Measurement condition

Column:	SunShell RP-AQUA, 2.6 µm 100 x 1.0 mm
Mobile phase:	Acetonitrile/water=60/40
Flow rate:	0.10 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.2 µL
Sample:	1=Uracil 2=Ethylbenzene 3=Acenaphthene 4=Butylbenzene

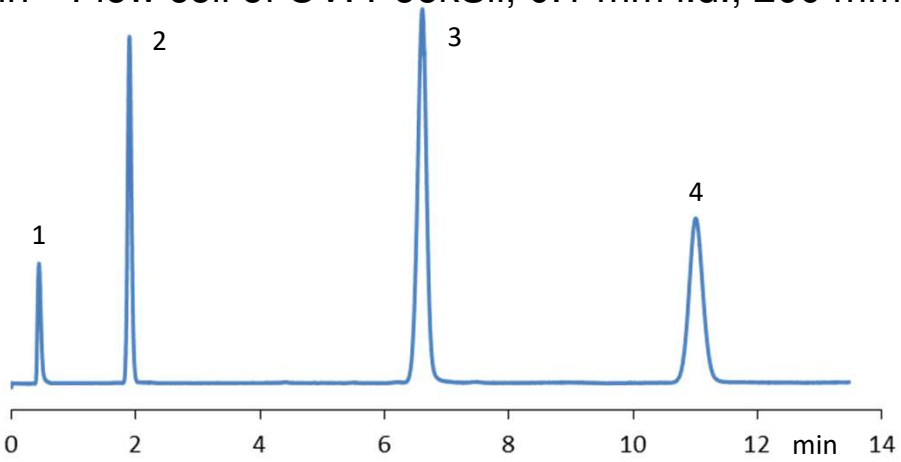
SunShell RP-AQUA 2.6 µm, 100 x 1.0 mm

	Peak No.	SUS	Marvel X	
Efficiency	1	517	2459	377% up
	2	2138	6856	221% up
	3	5359	9275	73% up
	4	7115	9699	36% up
Tailing factor	1	1.228	1.667	
	2	1.336	1.376	
	3	1.121	1.060	
	4	1.008	0.956	
Peak width, $h_{0.5}$ (min)	1	0.0497	0.0199	
	2	0.0514	0.0270	
	3	0.0630	0.0467	
	4	0.0739	0.0619	

SunShell C18 2.6 µm, 100 x 1.0 mm

SUS 0.1mm

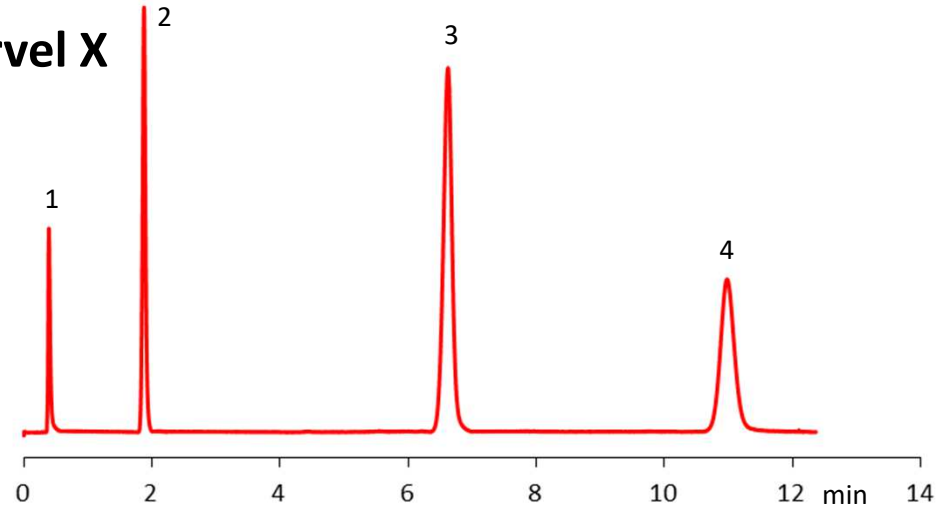
Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Measurement condition

Column:	SunShell C18, 2.6 µm 100 x 1.0 mm
Mobile phase:	Acetonitrile/water=50/50
Flow rate:	0.10 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.2 µL
Sample:	1=Uracil
	2=Ethylbenzene
	3=Acenaphthene
	4=Butylbenzene

Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

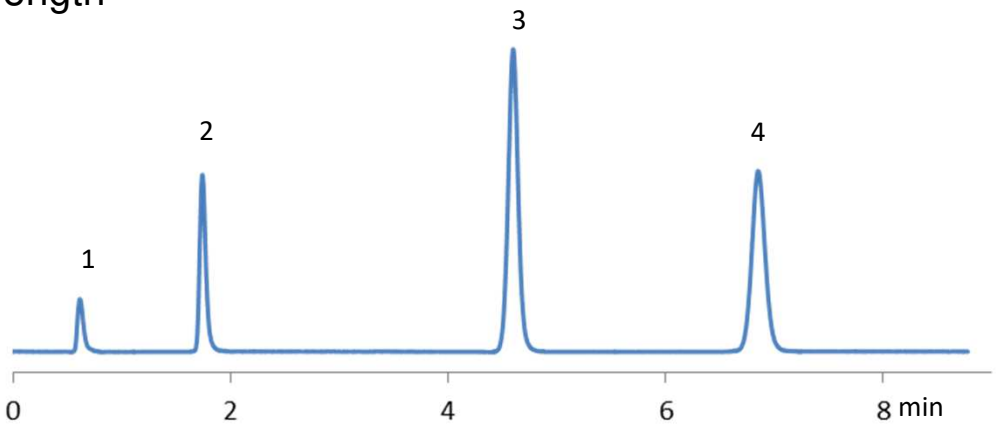
SunShell C18 2.6 µm, 150 x 1.0 mm

	Peak No.	SUS	Marvel X	
Efficiency	1	298	846	184% up
	2	4315	8180	90% up
	3	9977	11571	16% up
	4	11347	12249	8% up
Tailing factor	1	1.53	1.67	
	2	1.15	1.11	
	3	0.96	0.98	
	4	1.05	1.09	
Peak width, $h_{0.5}$ (min)	1	0.060	0.032	
	2	0.068	0.050	
	3	0.156	0.145	
	4	0.243	0.234	

SunShell C18 2.6 µm, 150 x 1.0 mm

SUS 0.1mm

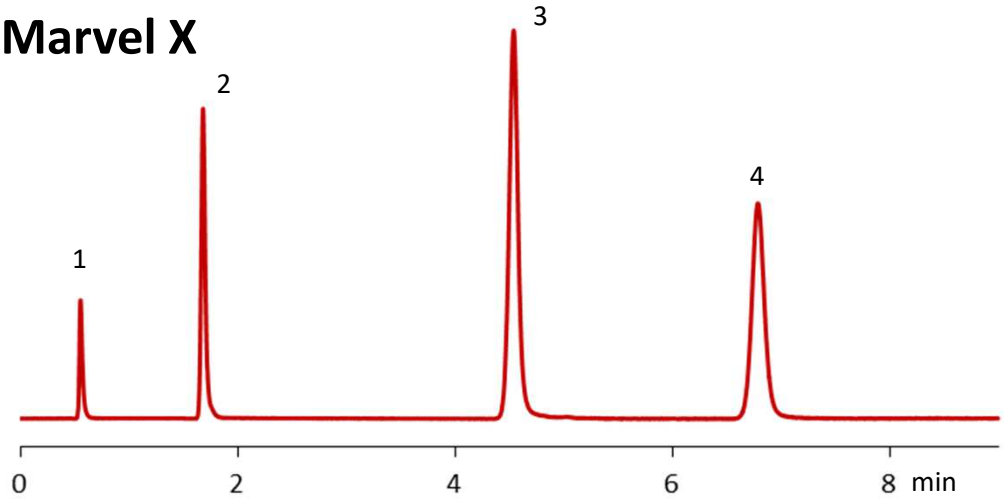
Connecting tube
Injector→Column: SUS, 0.1 mm i.d., 300 mm length
Column→Flow cell of UV: PeekSil, 0.1 mm i.d., 200 mm length



Measurement condition

Column:	SunShell C18, 2.6 µm 150 x 1.0 mm
Mobile phase:	Acetonitrile/water=60/40
Flow rate:	0.10 mL/min
Temperature:	RT
Detection:	UV@250 nm
Injection volume:	0.2 µL
Sample:	1=Uracil 2=Ethylbenzene 3=Acenaphthene 4=Butylbenzene

Marvel X



Connecting tube
Injector→Column: Marvel X, 0.075 mm i.d., 350 mm length
Column→Flow cell of UV: Marvel X, 0.075 mm i.d., 150 mm length

SunShell C18 2.6 µm, 150 x 1.0 mm

	Peak No.	SUS	Marvel X	
Efficiency	1	580	2040	252% up
	2	4723	10471	122% up
	3	12190	15172	24% up
	4	14797	16673	13% up
Tailing factor	1	1.72	1.64	
	2	1.37	1.31	
	3	1.05	1.08	
	4	1.09	1.09	
Peak width, $h_{0.5}$ (min)	1	0.059	0.030	
	2	0.060	0.039	
	3	0.098	0.087	
	4	0.133	0.124	