

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089679.D
 Acq On : 24 Feb 2015 20:13
 Operator : TP/JJ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Manual Integrations
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Quant Time: Feb 25 04:39:15 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	52944	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	222783	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	100160	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	180280	5.00	ng	0.00
19) Chrysene-d12	23.66	240	131391	5.00	ng	0.00
25) Perylene-d12	25.34	264	96509	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	122055	9.22	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	215433	9.67	ng	0.00
21) Terphenyl-d14	22.30	244	194648	12.63	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	883	0.13	ng	# 80
3) n-Nitrosodimethylamine	3.48	42	1022	0.19	ng	# 65
6) Naphthalene	12.29	128	6565	0.15	ng	97
7) 2-Methylnaphthalene	13.95	142	3484	0.14	ng	98
10) Acenaphthylene	16.06	152	18663	0.13	ng	100
11) Acenaphthene	16.49	154	3419	0.15	ng	98
12) Fluorene	17.74	166	3645	0.14	ng	100
14) Hexachlorobenzene	18.99	284	749	0.16	ng	97
15) Pentachlorophenol	19.44	266	51	0.32	ng	# 72
16) Phenanthrene	19.81	178	5950	0.15	ng	98
17) Anthracene	19.91	178	4436	0.14	ng	99
18) Fluoranthene	21.72	202	4099	0.13	ng	98
20) Pyrene	22.03	202	4491	0.14	ng	99
22) Benzo(a)anthracene	23.65	228	11707	0.14	ng	96
23) Chrysene	23.68	228	20514	0.17	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	2731	0.30	ng	# 61
26) Benzo(b)fluoranthene	24.91	252	644	0.36	ng	# 87
27) Benzo(k)fluoranthene	24.94	252	1855m	0.22	ng	
28) Benzo(a)pyrene	25.27	252	768	0.14	ng	# 85
29) Dibenzo(a,h)anthracene	26.77	278	407	0.34	ng	# 81
30) Benzo(g,h,i)perylene	27.15	276	3395	0.37	ng	# 88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

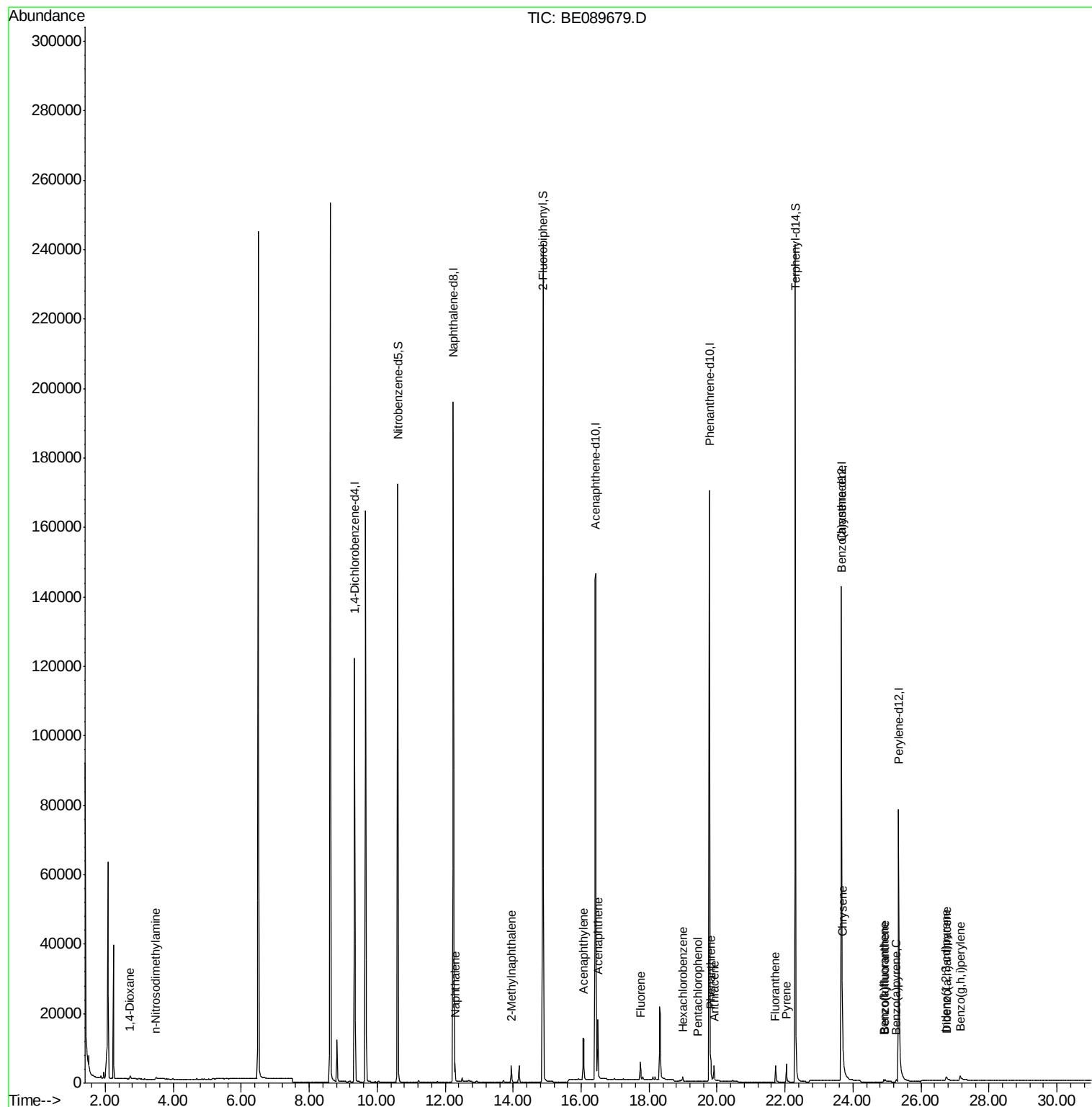
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 25 04:05:13 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089679.D

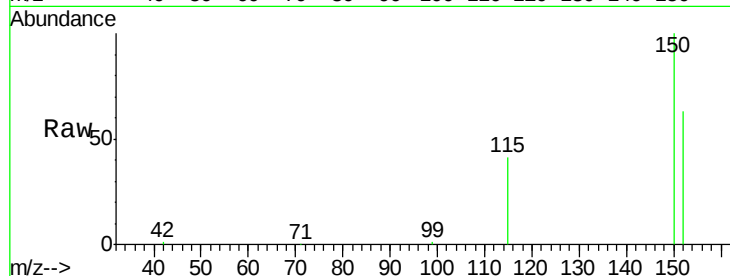
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

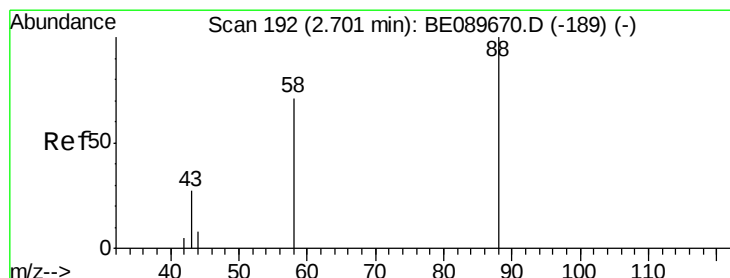
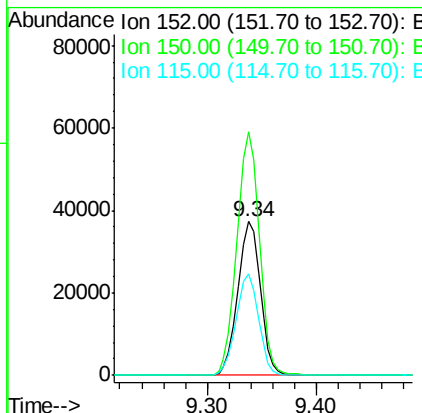
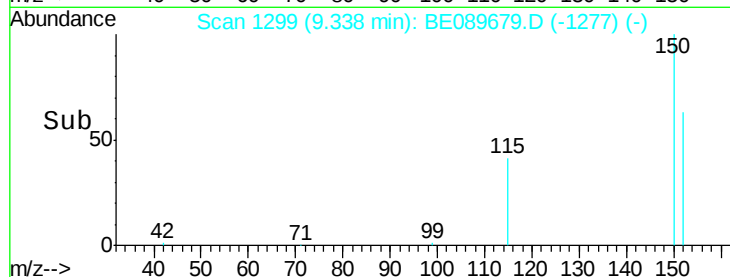
MDL-05-S



Tgt Ion:	152	Resp:	52944
Ion Ratio	Lower	Upper	
152	100		
150	158.2	123.4	185.0
115	65.6	50.8	76.2

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#2

1,4-Dioxane

Concen: 0.13 ng

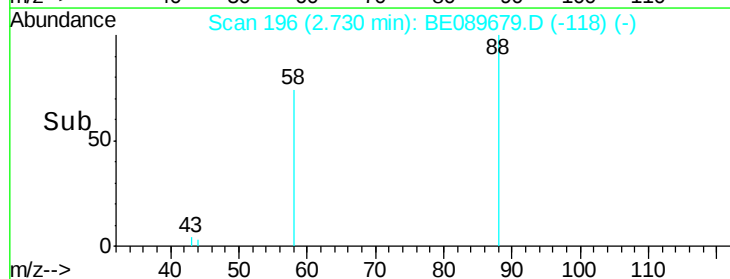
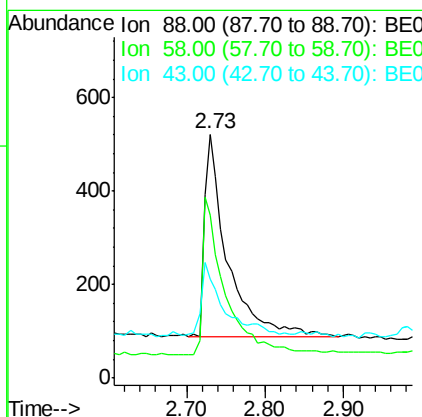
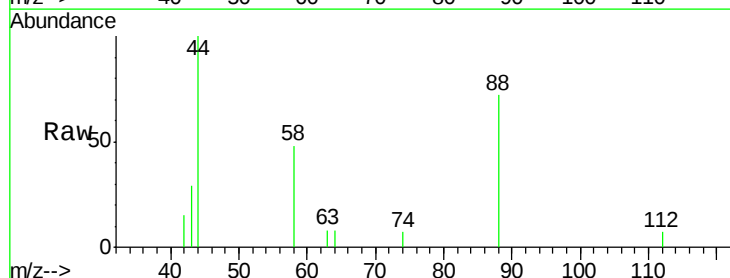
RT: 2.73 min Scan# 196

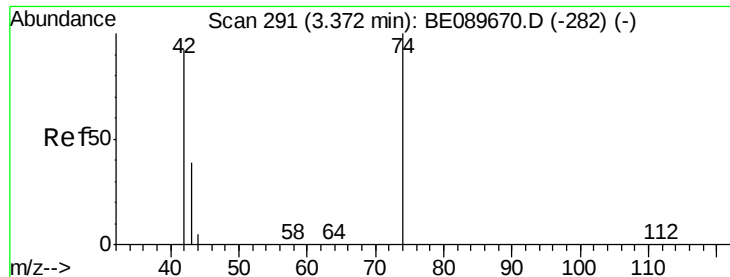
Delta R.T. 0.03 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	88	Resp:	883
Ion Ratio	Lower	Upper	
88	100		
58	75.2	62.4	93.6
43	0.0	26.6	40.0#





#3

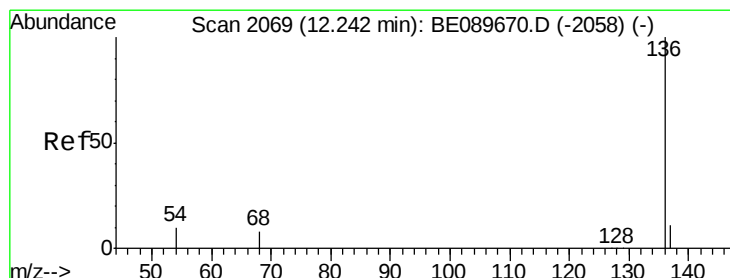
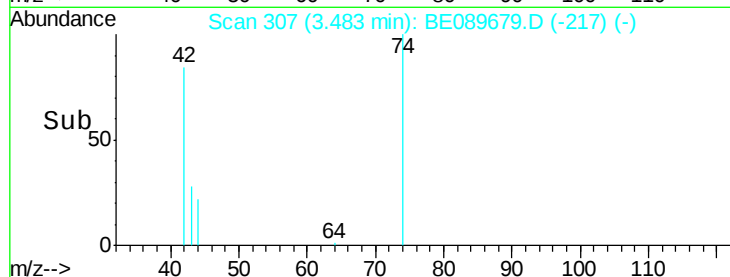
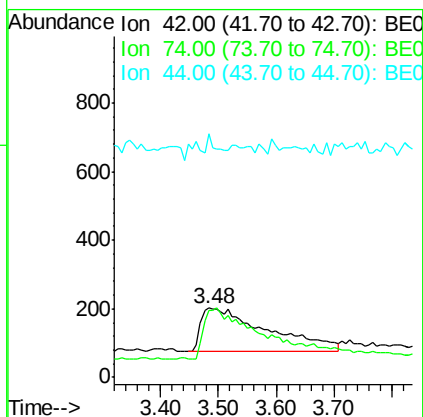
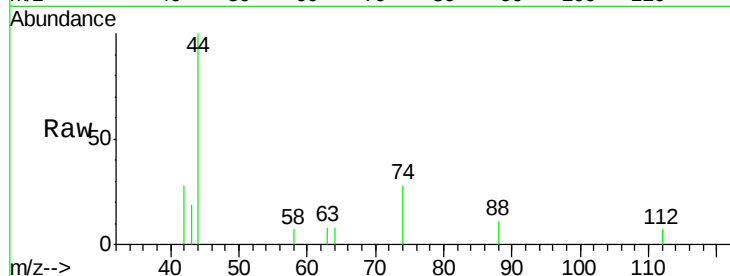
n-Nitrosodimethylamine
Concen: 0.19 ng
RT: 3.48 min Scan# 307
Delta R.T. 0.11 min
Lab File: BE089679.D
Acq: 24 Feb 2015 20:13

Instrument :
BNA_E
ClientSampleId :
MDL-05-S

Tgt Ion	Ratio	Lower	Upper
42	100		
74	74.1	91.1	136.7#
44	3.6	4.7	7.1#

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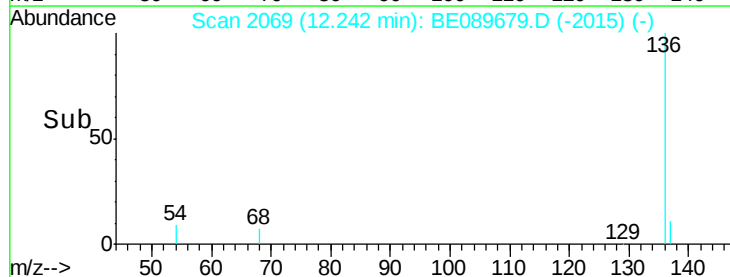
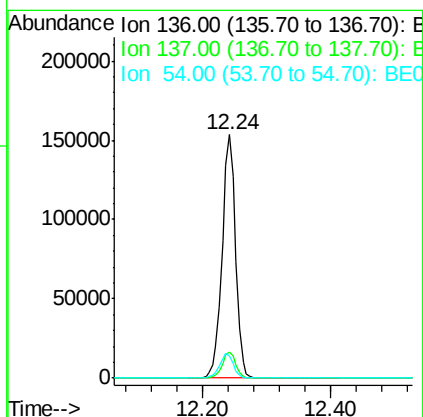
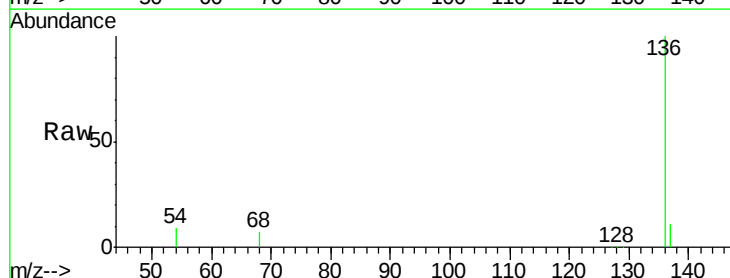
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#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2069
Delta R.T. -0.00 min
Lab File: BE089679.D
Acq: 24 Feb 2015 20:13

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	9.2	7.8	11.8





#5

Nitrobenzene-d5

Concen: 9.22 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089679.D

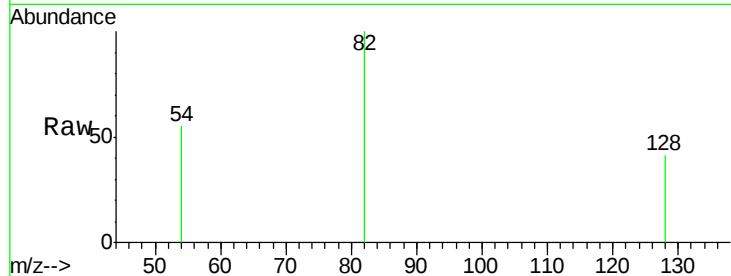
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

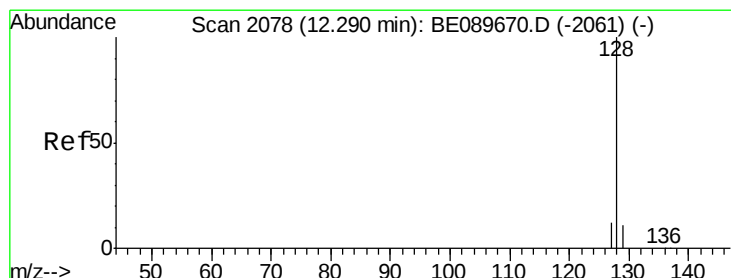
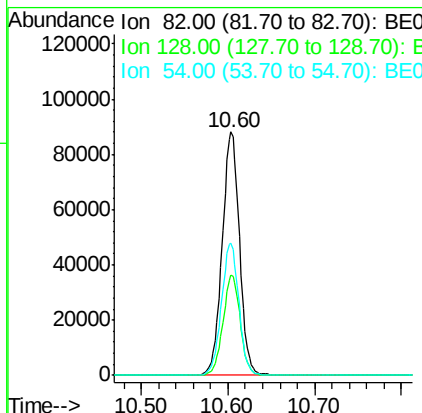
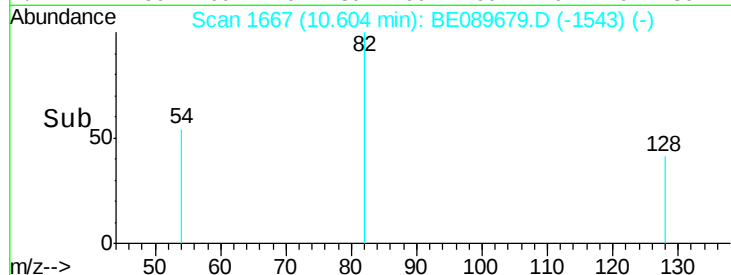
MDL-05-S



Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.2	30.6	46.0
54	54.5	43.6	65.4

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#6

Naphthalene

Concen: 0.15 ng

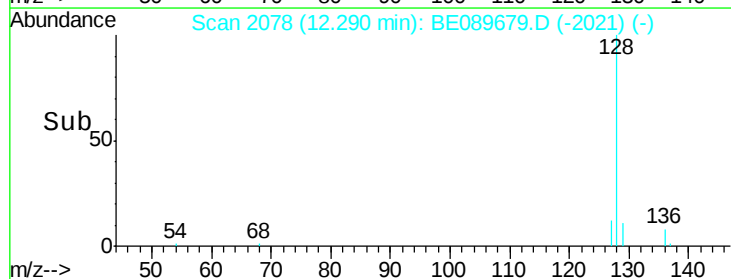
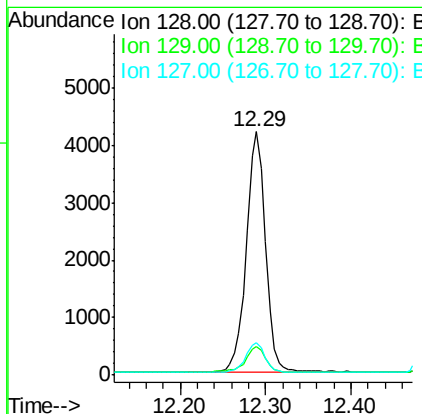
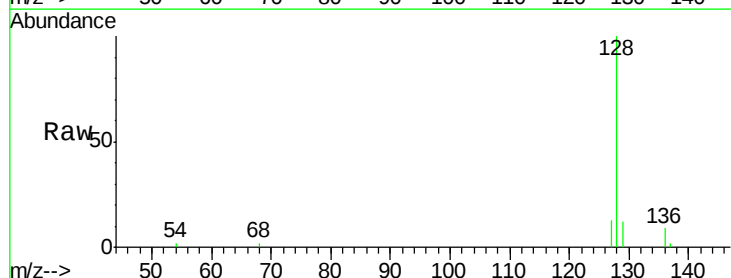
RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.9	13.3
127	13.3	9.7	14.5





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089679.D

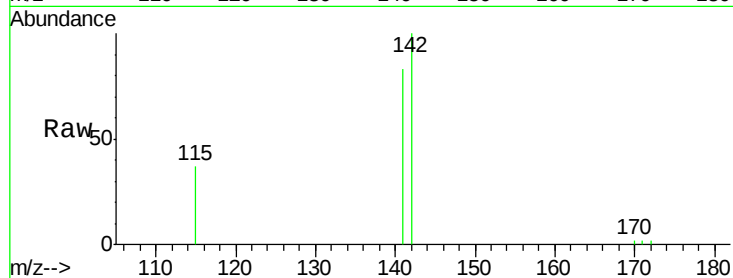
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

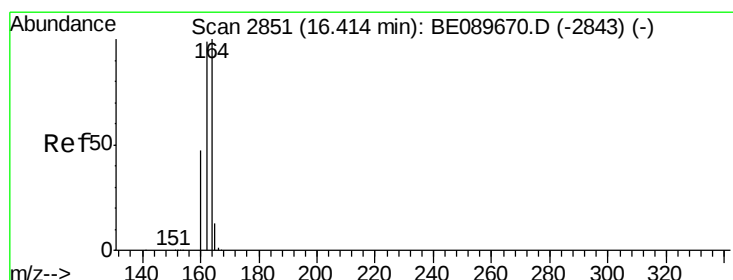
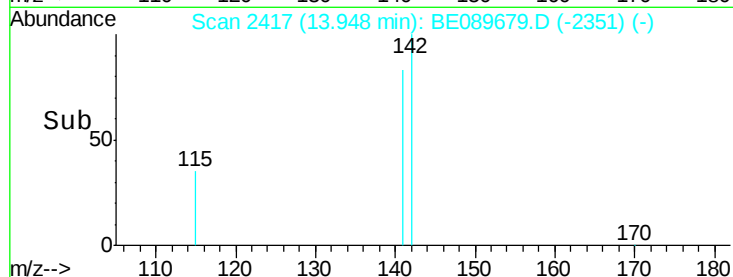
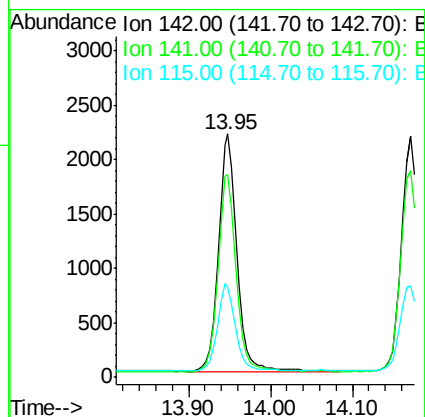
MDL-05-S



Tgt Ion:	142	Resp:	3484
Ion Ratio	Lower	Upper	
142	100		
141	83.1	66.0	99.0
115	36.8	27.4	41.0

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#8

Acenaphthene-d10

Concen: 5.00 ng

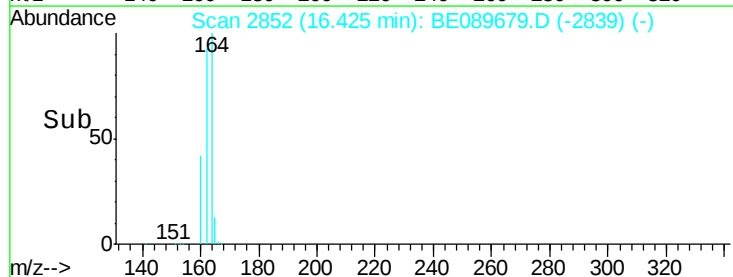
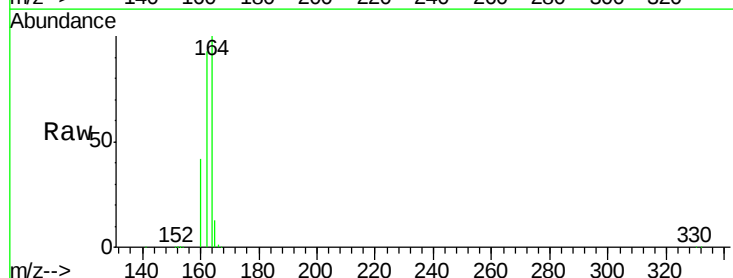
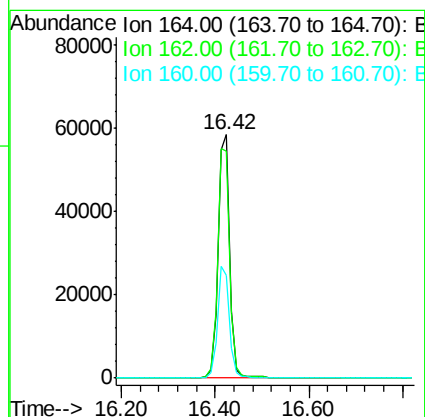
RT: 16.42 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	164	Resp:	100160
Ion Ratio	Lower	Upper	
164	100		
162	93.2	79.4	119.2
160	42.1	37.6	56.4





#9

2-Fluorobiphenyl

Concen: 9.67 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089679.D

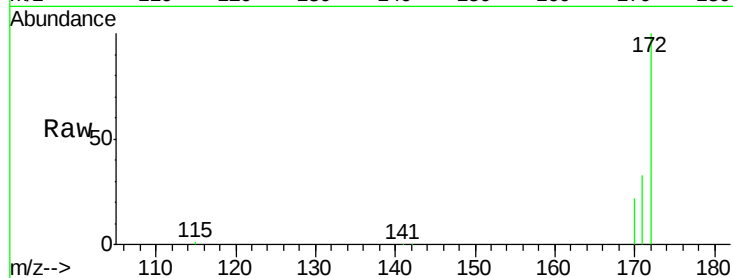
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

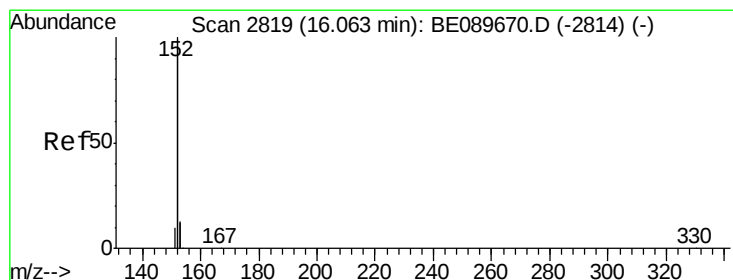
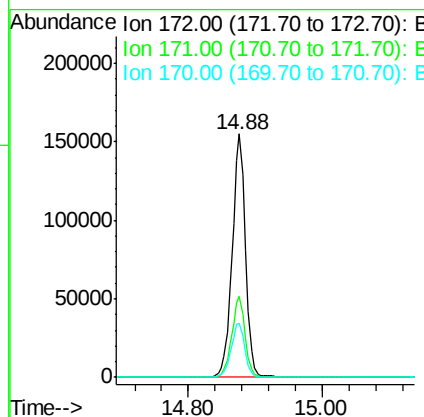
MDL-05-S



Tgt Ion:	172	Resp:	215433
Ion Ratio		Lower	Upper
172	100		
171	33.1	27.3	40.9
170	22.2	18.5	27.7

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#10

Acenaphthylene

Concen: 0.13 ng

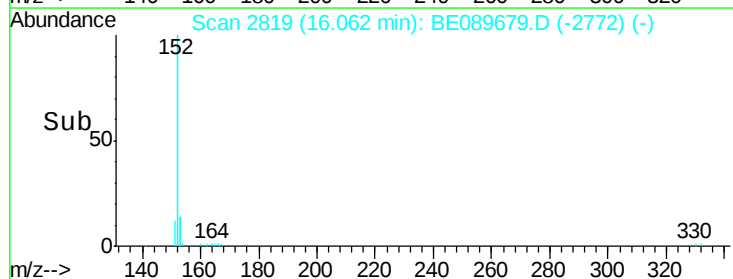
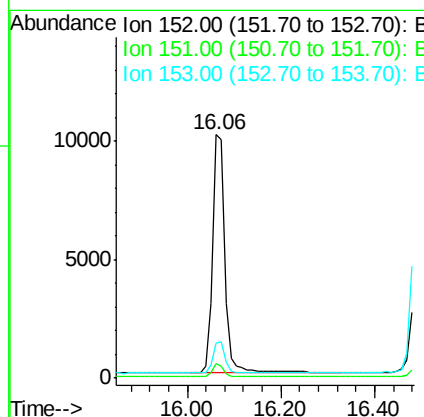
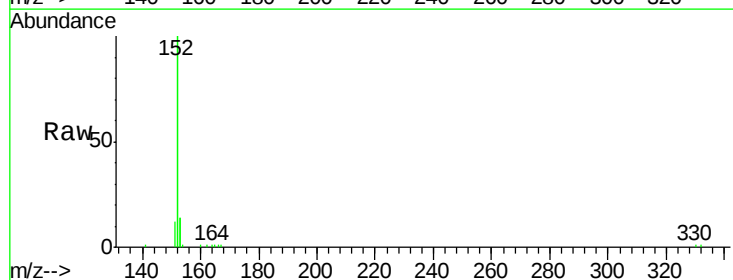
RT: 16.06 min Scan# 2819

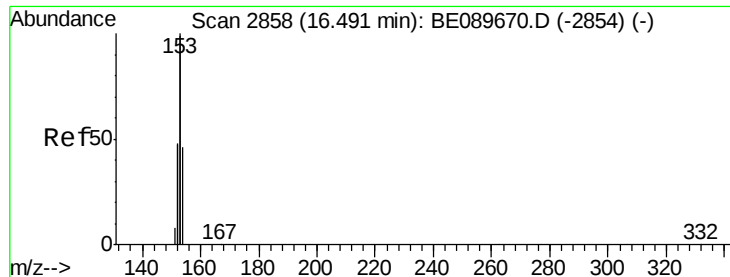
Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	152	Resp:	18663
Ion Ratio		Lower	Upper
152	100		
151	4.8	3.8	5.6
153	12.9	10.4	15.6





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

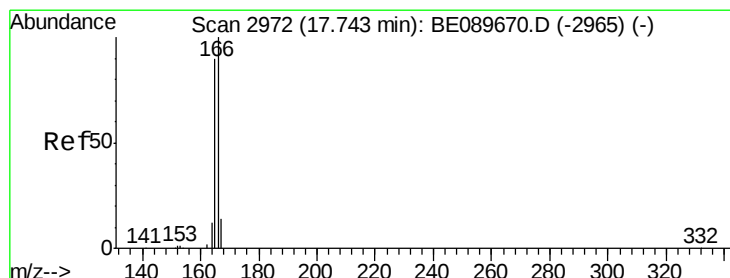
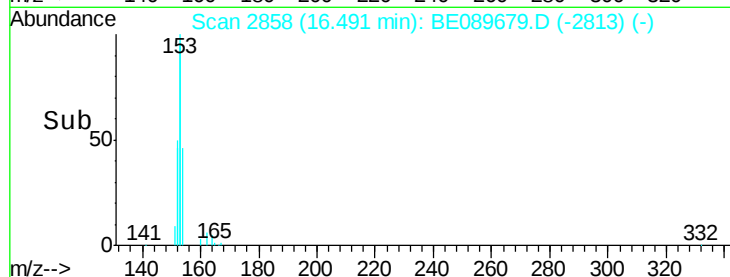
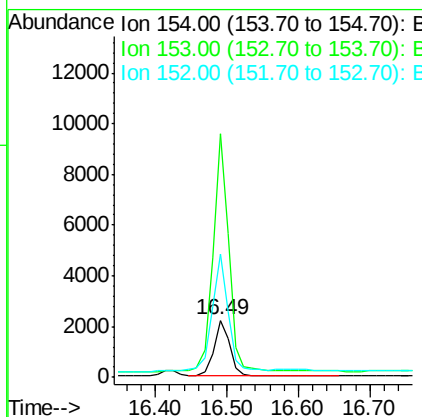
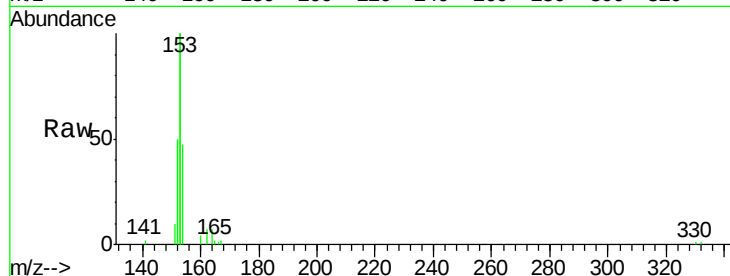
ClientSampleId :

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Tgt Ion:	154	Resp:	3419
Ion Ratio	Lower	Upper	
154	100		
153	436.4	345.8	518.8
152	212.6	168.6	252.8

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#12

Fluorene

Concen: 0.14 ng

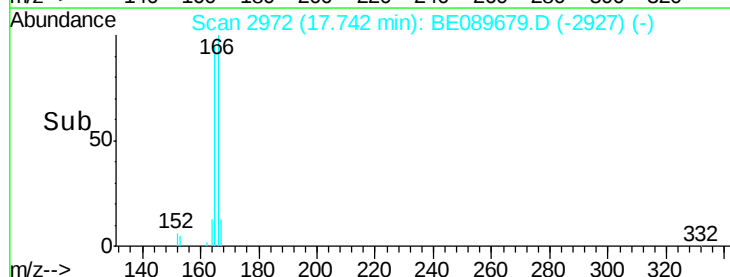
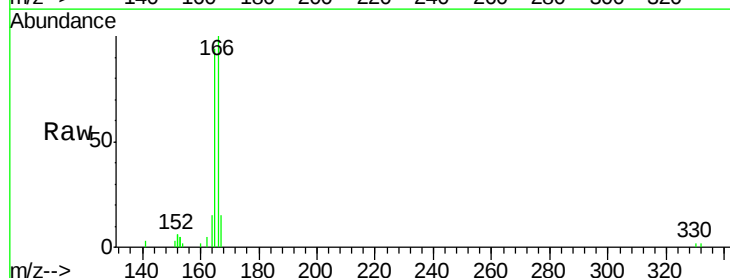
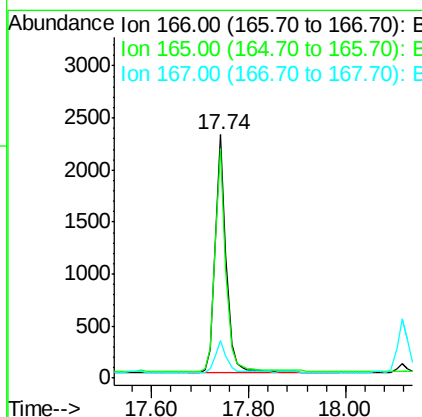
RT: 17.74 min Scan# 2972

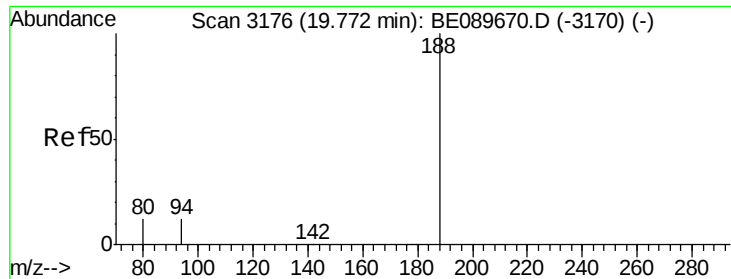
Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	166	Resp:	3645
Ion Ratio	Lower	Upper	
166	100		
165	92.3	73.6	110.4
167	13.6	10.6	16.0





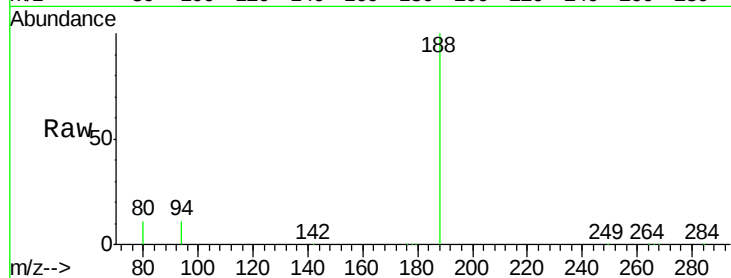
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089679.D
Acq: 24 Feb 2015 20:13

Instrument :
BNA_E
ClientSampleId :
MDL-05-S

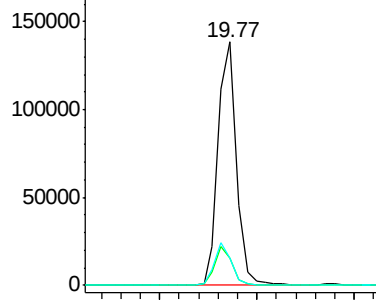
Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.3	9.4	14.2
80	11.3	9.5	14.3

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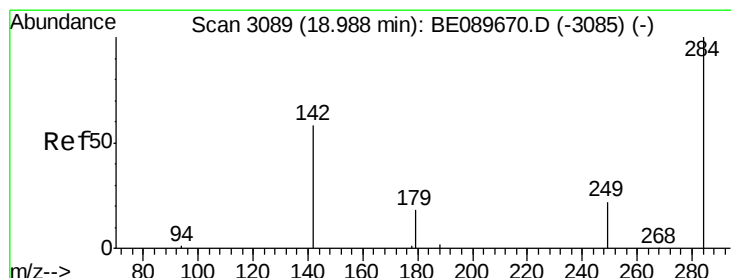
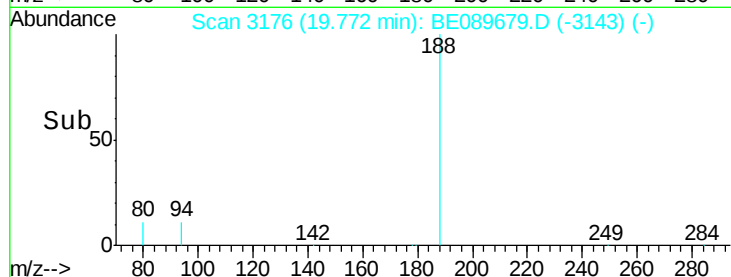
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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0



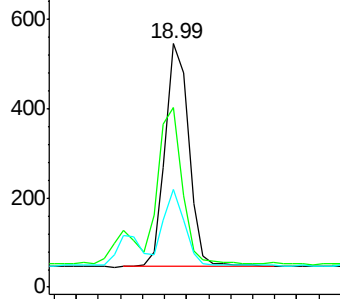
Time-->



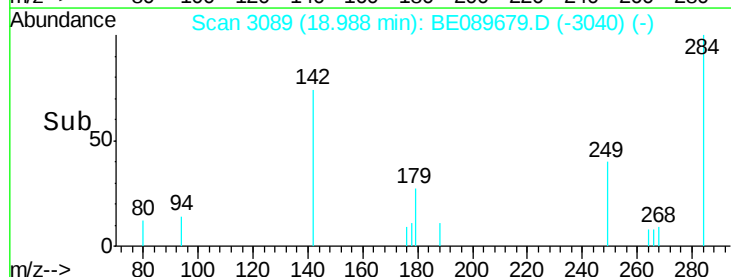
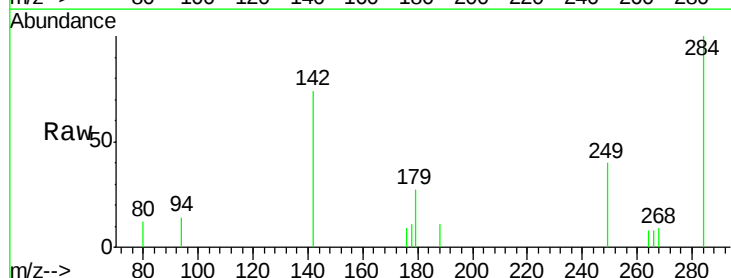
#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089679.D
Acq: 24 Feb 2015 20:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	70.2	55.4	83.2
249	29.2	27.2	40.8

Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



Time-->





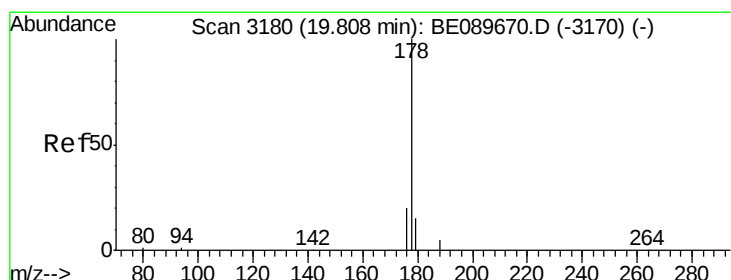
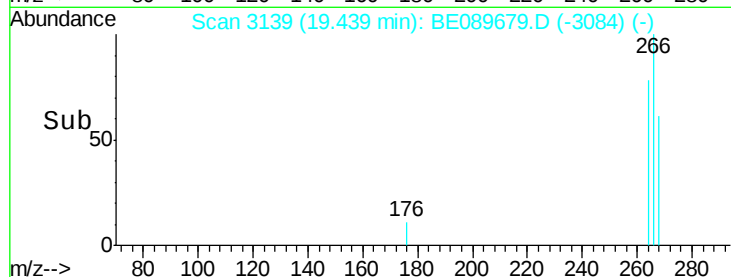
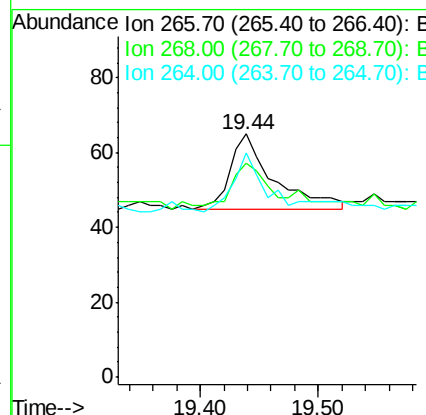
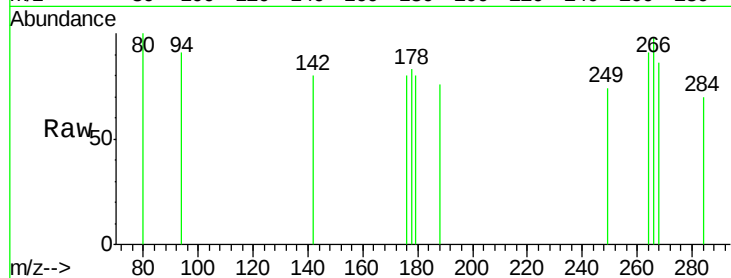
#15
 Pentachlorophenol
 Concen: 0.32 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Tgt Ion	Ratio	Lower	Upper
266	100		
268	87.7	56.3	84.5#
264	92.3	51.8	77.8#

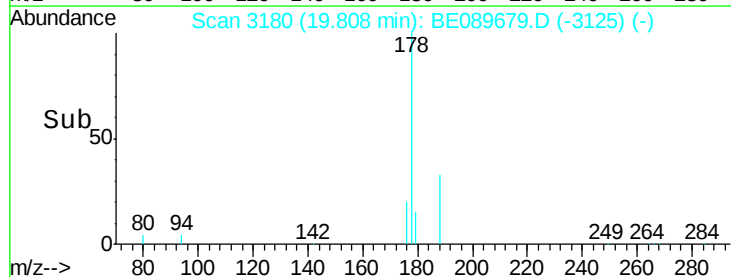
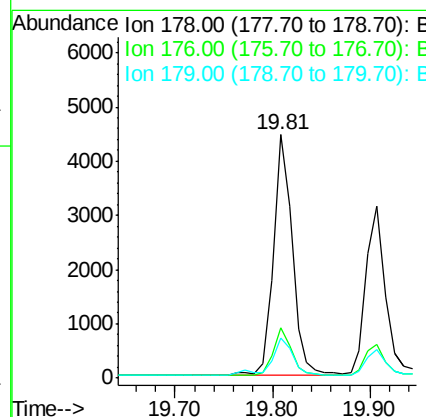
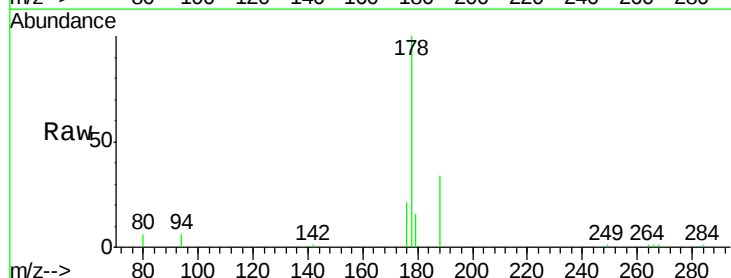
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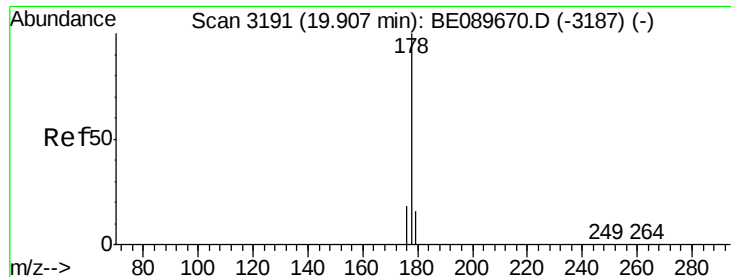
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#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	17.5	12.5	18.7





#17

Anthracene

Concen: 0.14 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089679.D

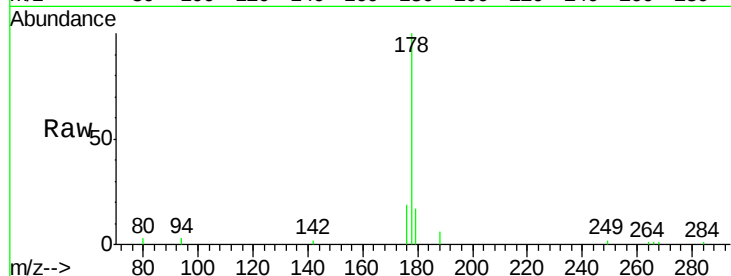
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

MDL-05-S



Tgt Ion:178 Resp: 4436

Ion Ratio Lower Upper

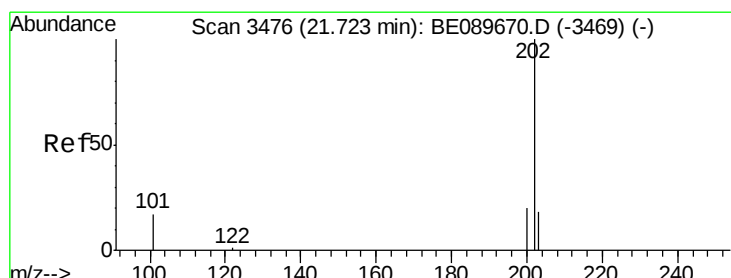
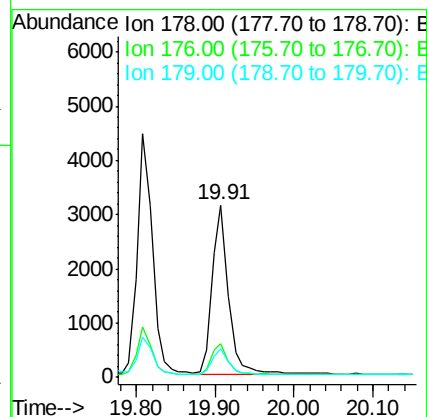
178 100

176 18.3 14.8 22.2

179 14.8 12.2 18.2

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#18

Fluoranthene

Concen: 0.13 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

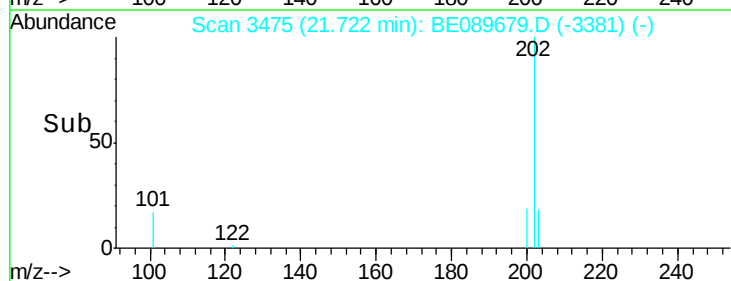
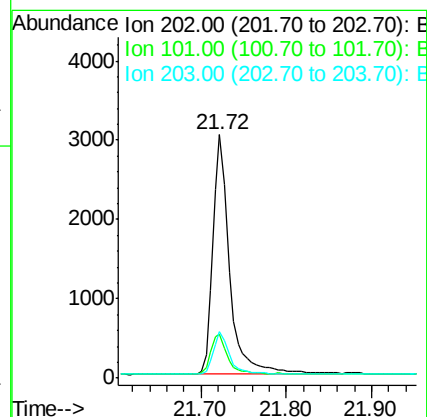
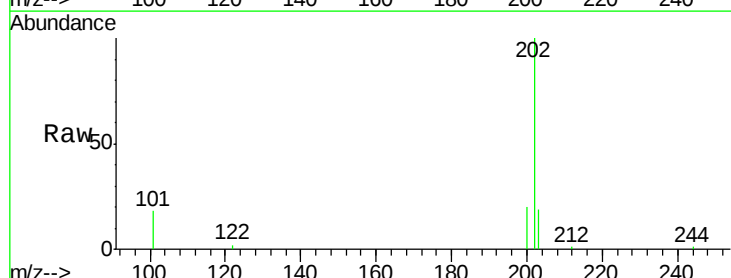
Tgt Ion:202 Resp: 4099

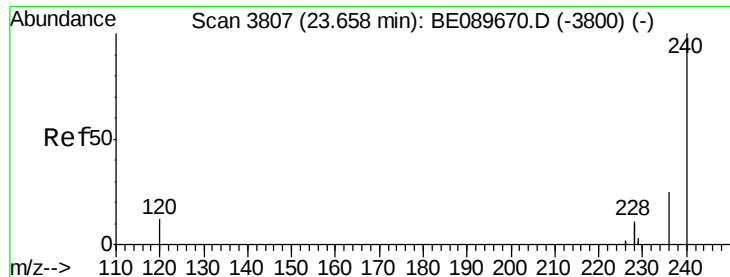
Ion Ratio Lower Upper

202 100

101 16.8 14.9 22.3

203 17.5 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. 0.00 min

Lab File: BE089679.D

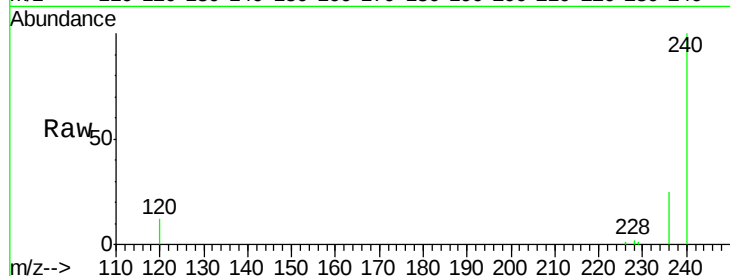
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

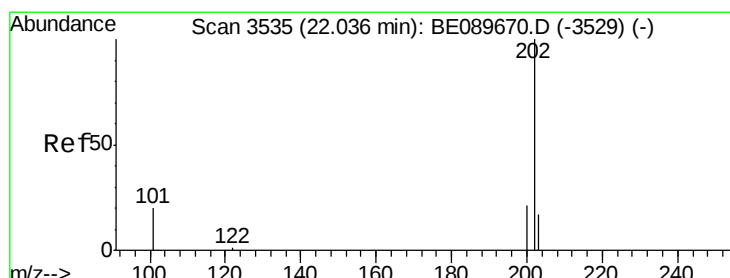
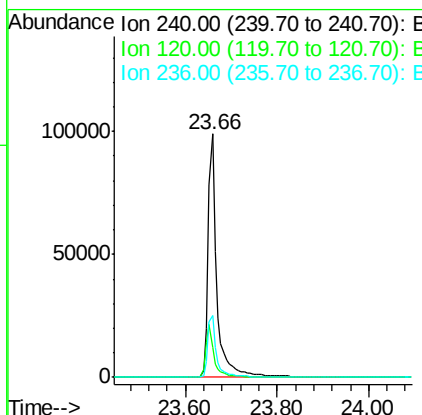
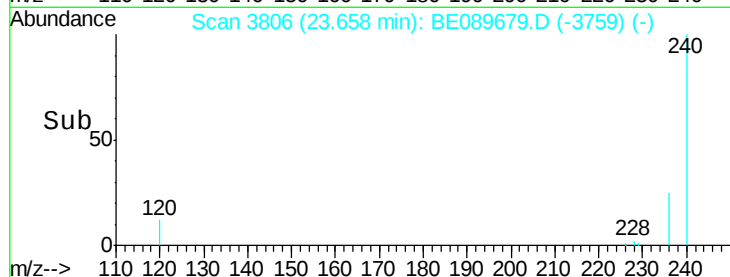
MDL-05-S



Tgt Ion:	240	Resp:	131391
Ion Ratio	Lower	Upper	
240	100		
120	12.0	9.4	14.0
236	25.2	19.9	29.9

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#20

Pyrene

Concen: 0.14 ng

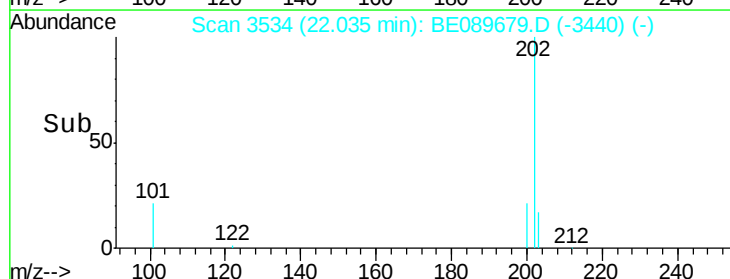
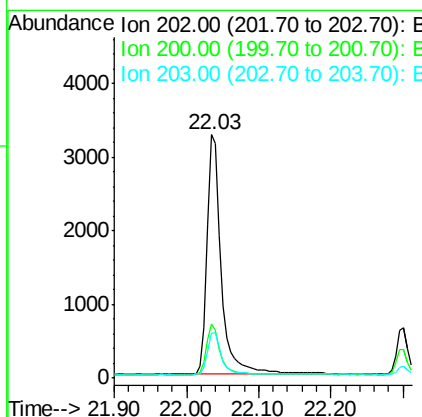
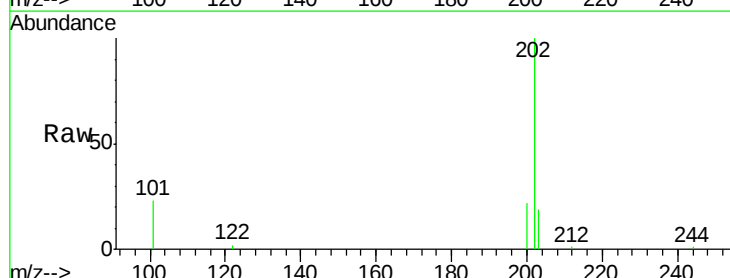
RT: 22.03 min Scan# 3534

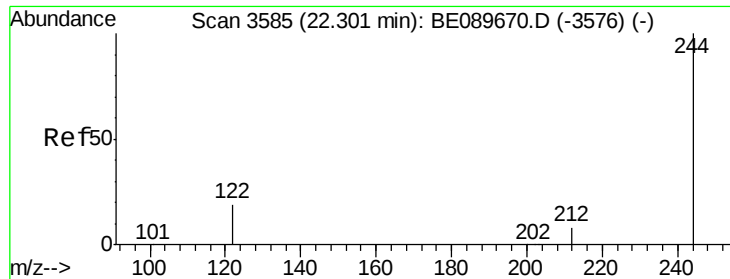
Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	202	Resp:	4491
Ion Ratio	Lower	Upper	
202	100		
200	20.3	16.4	24.6
203	17.8	13.9	20.9





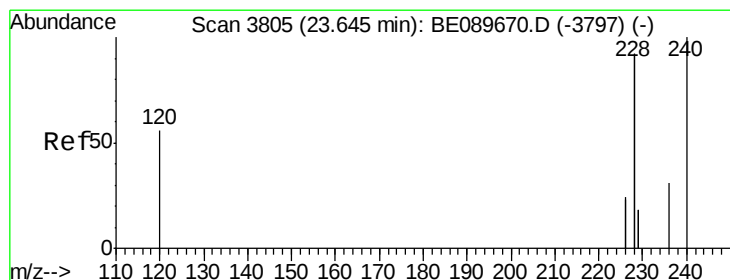
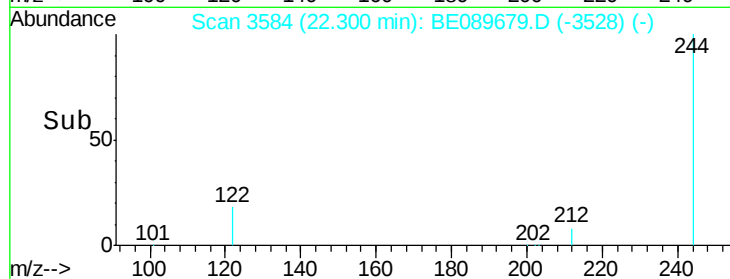
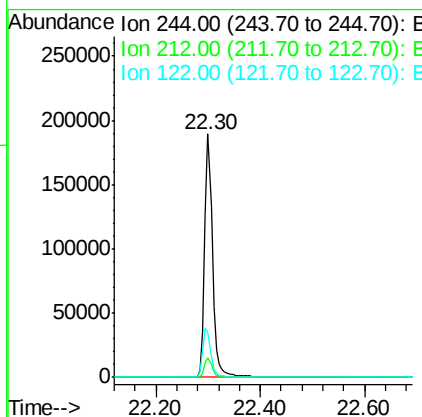
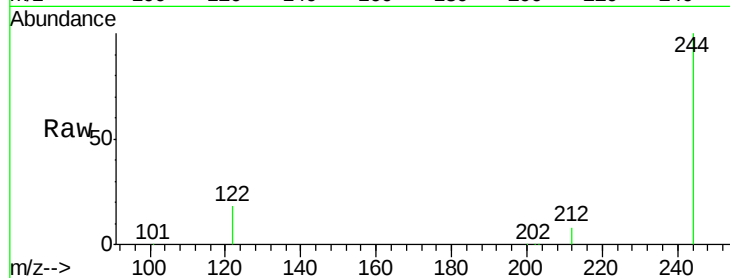
#21
 Terphenyl-d14
 Concen: 12.63 ng
 RT: 22.30 min Scan# 3584
 Delta R.T. -0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Instrument :
 BNA_E
 ClientSampleID :
 MDL-05-S

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	194648		
212	8.3	7.0	10.6	
122	18.3	15.4	23.0	

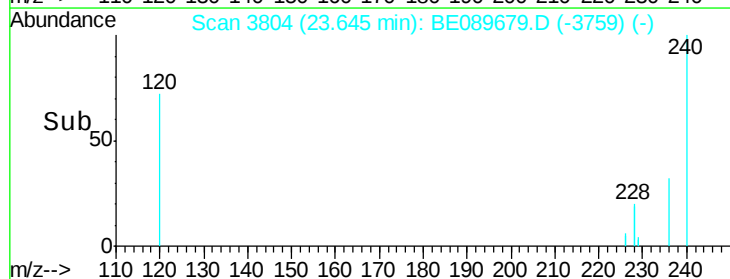
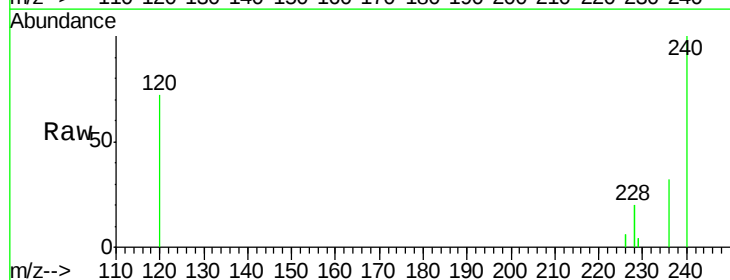
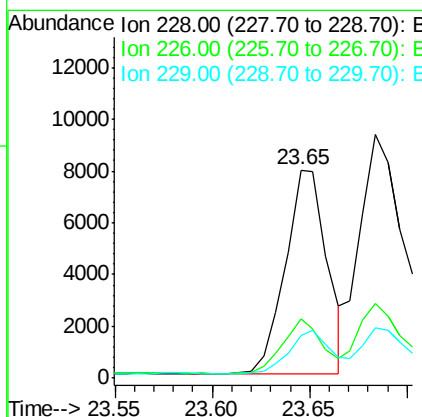
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#22
 Benzo(a)anthracene
 Concen: 0.14 ng
 RT: 23.65 min Scan# 3804
 Delta R.T. 0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	11707		
226	28.4	20.6	31.0	
229	20.6	15.8	23.6	





#23

Chrysene

Concen: 0.17 ng

RT: 23.68 min Scan# 3810

Delta R.T. 0.00 min

Lab File: BE089679.D

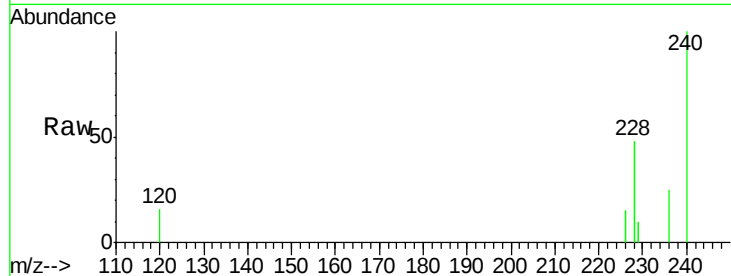
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

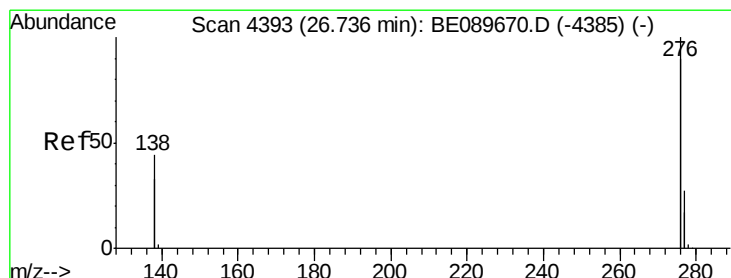
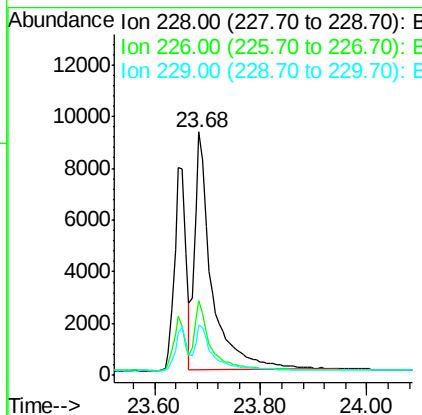
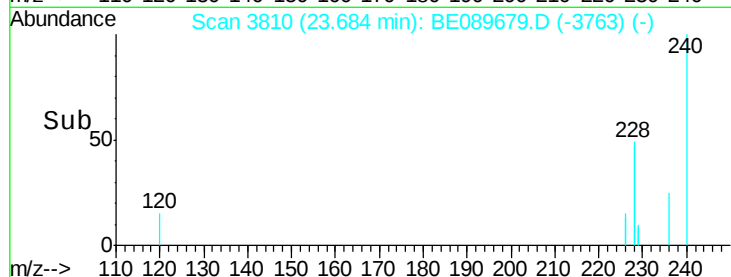
MDL-05-S



Tgt Ion:	228	Resp:	20514
Ion Ratio	Lower	Upper	
228	100		
226	30.6	23.6	35.4
229	20.6	15.3	22.9

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.30 ng

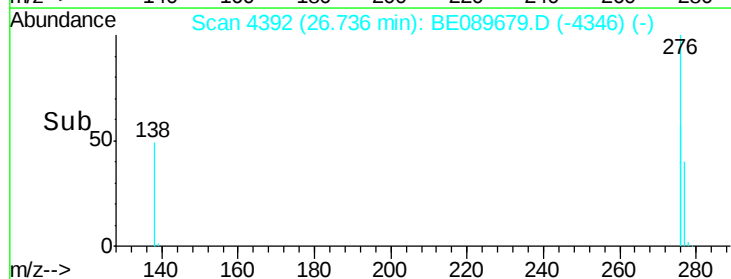
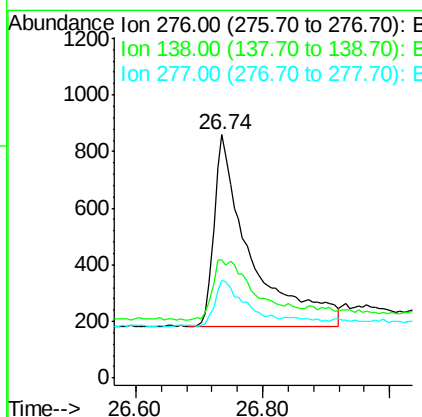
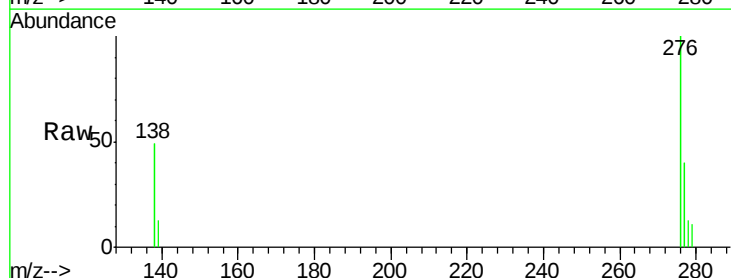
RT: 26.74 min Scan# 4392

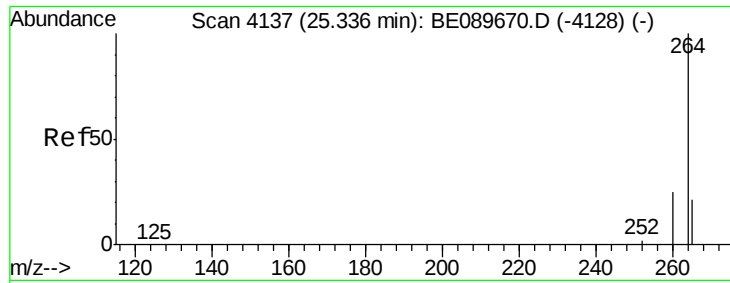
Delta R.T. 0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	276	Resp:	2731
Ion Ratio	Lower	Upper	
276	100		
138	37.0	0.0	0.0#
277	19.9	5.2	7.8#





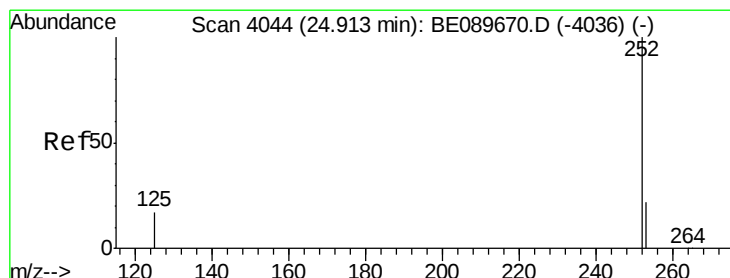
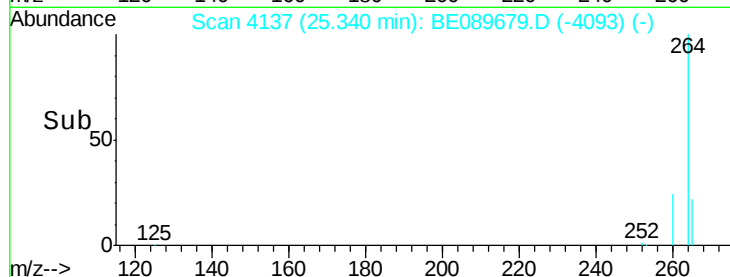
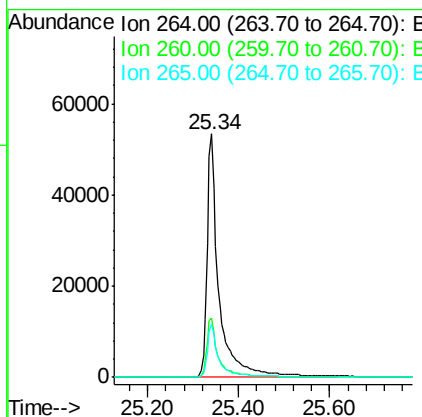
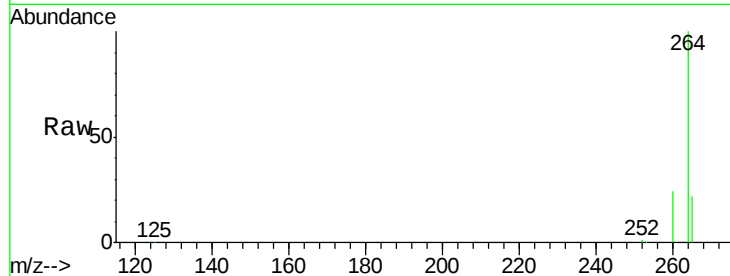
#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	20.2	30.4
265	21.6	17.0	25.4

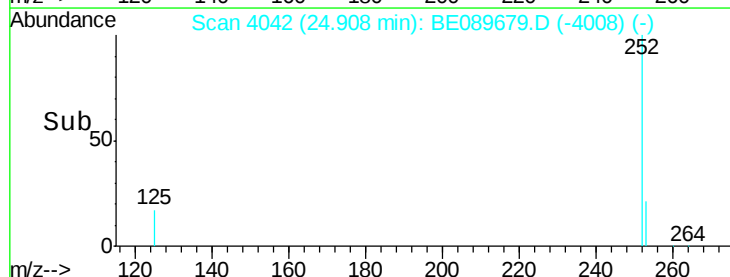
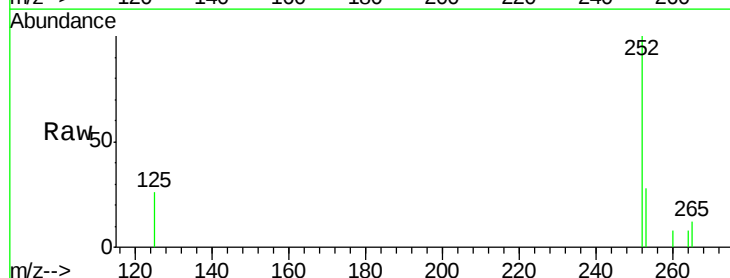
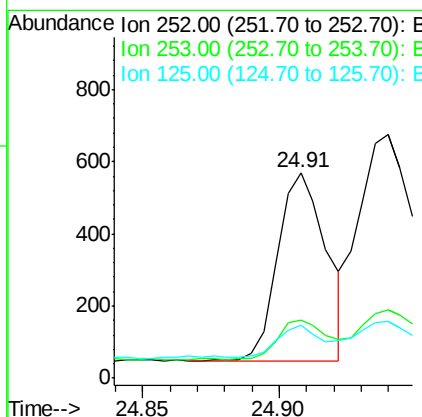
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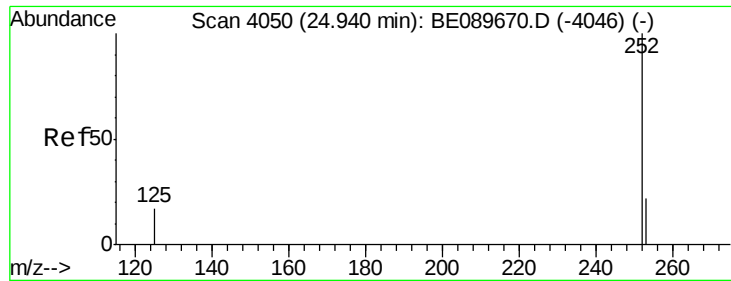
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#26
 Benzo(b)fluoranthene
 Concen: 0.36 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. -0.00 min
 Lab File: BE089679.D
 Acq: 24 Feb 2015 20:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.2	18.6	27.8#
125	25.6	15.0	22.6#





#27

Benzo(k)fluoranthene

Concen: 0.22 ng m

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089679.D

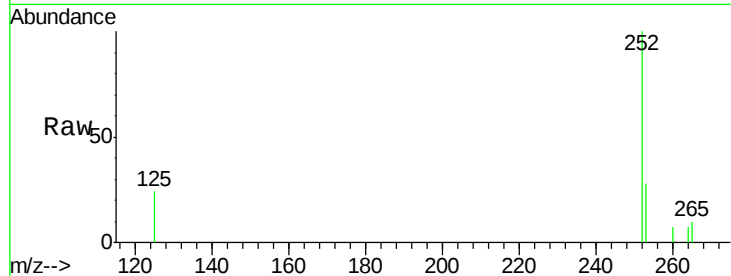
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

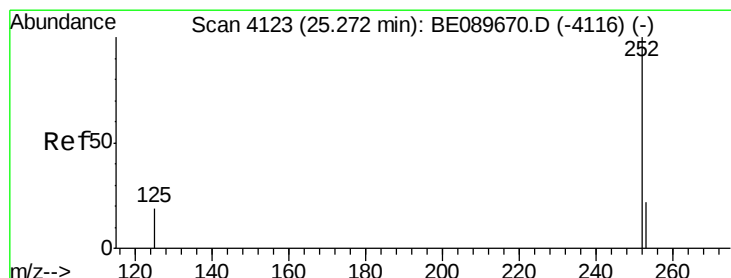
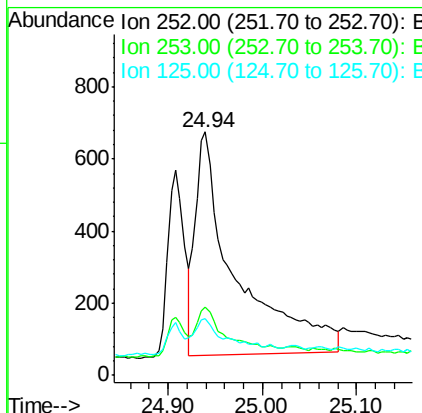
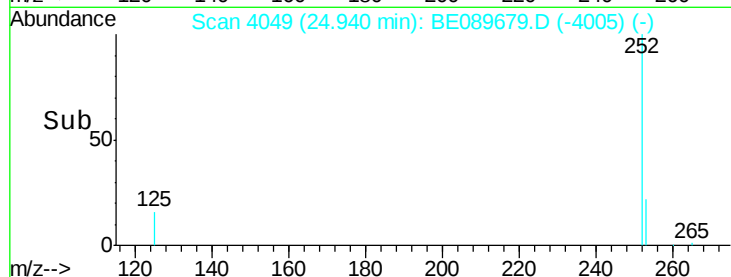
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Tgt Ion:	252	Resp:	1855
Ion Ratio	Lower	Upper	
252	100		
253	28.3	18.0	27.0#
125	23.6	14.3	21.5#

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#28

Benzo(a)pyrene

Concen: 0.14 ng

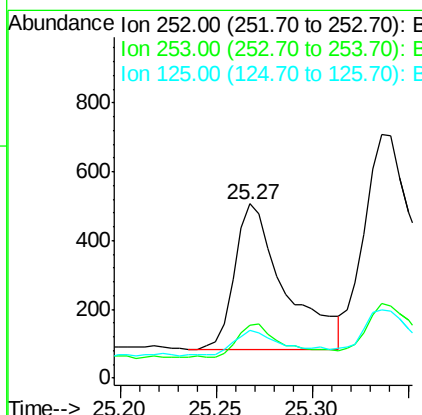
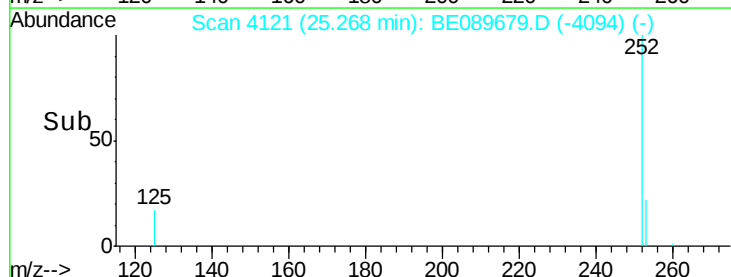
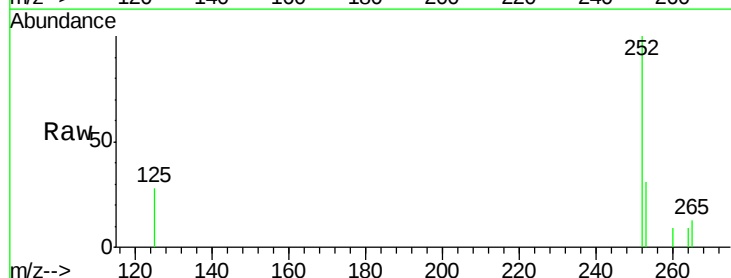
RT: 25.27 min Scan# 4121

Delta R.T. -0.00 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion:	252	Resp:	768
Ion Ratio	Lower	Upper	
252	100		
253	30.6	18.8	28.2#
125	27.7	16.6	24.8#





#29

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 26.77 min Scan# 4397

Delta R.T. 0.00 min

Lab File: BE089679.D

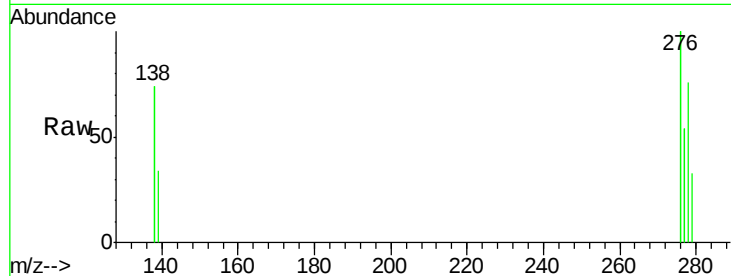
Acq: 24 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion: 278 Resp: 407

Ion Ratio Lower Upper

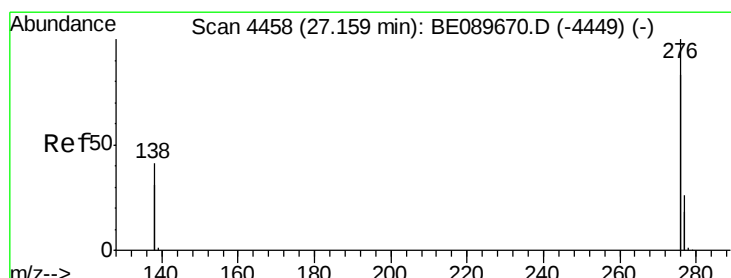
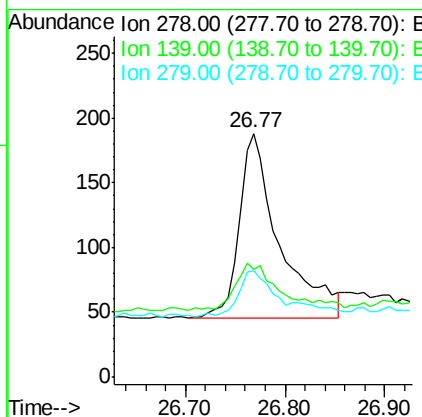
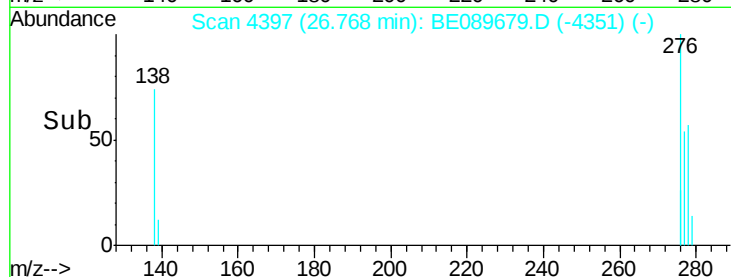
278 100

139 44.1 30.4 45.6

279 43.6 22.0 33.0#

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#30

Benzo(g,h,i)perylene

Concen: 0.37 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089679.D

Acq: 24 Feb 2015 20:13

Tgt Ion: 276 Resp: 3395

Ion Ratio Lower Upper

276 100

277 36.2 21.0 31.6#

138 45.9 33.0 49.4

