

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089680.D
 Acq On : 24 Feb 2015 20:52
 Operator : TP/JJ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S

Manual Integrations
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Quant Time: Feb 25 04:43:47 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	52899	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	226402	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	102692	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	185693	5.00	ng	0.00
19) Chrysene-d12	23.66	240	139127	5.00	ng	0.00
25) Perylene-d12	25.34	264	104675	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	118998	8.85	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	218266	9.56	ng	0.00
21) Terphenyl-d14	22.30	244	198098	12.14	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.72	88	1002	0.15	ng	# 81
3) n-Nitrosodimethylamine	3.47	42	957	0.18	ng	# 76
6) Naphthalene	12.29	128	7478	0.17	ng	97
7) 2-Methylnaphthalene	13.95	142	3907	0.16	ng	96
10) Acenaphthylene	16.06	152	20748	0.14	ng	100
11) Acenaphthene	16.49	154	3825	0.16	ng	97
12) Fluorene	17.74	166	4391	0.17	ng	98
14) Hexachlorobenzene	18.99	284	842	0.18	ng	98
15) Pentachlorophenol	19.44	266	49	0.32	ng	# 73
16) Phenanthrene	19.81	178	6753	0.17	ng	98
17) Anthracene	19.91	178	5262	0.16	ng	99
18) Fluoranthene	21.72	202	4877	0.15	ng	98
20) Pyrene	22.04	202	5200	0.15	ng	99
22) Benzo(a)anthracene	23.65	228	15129	0.17	ng	98
23) Chrysene	23.68	228	24048	0.19	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	2692	0.29	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	848m	0.37	ng	
27) Benzo(k)fluoranthene	24.94	252	2328m	0.23	ng	
28) Benzo(a)pyrene	25.27	252	988	0.16	ng	# 88
29) Dibenzo(a,h)anthracene	26.77	278	524	0.35	ng	# 87
30) Benzo(g,h,i)perylene	27.15	276	5410	0.40	ng	# 85

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

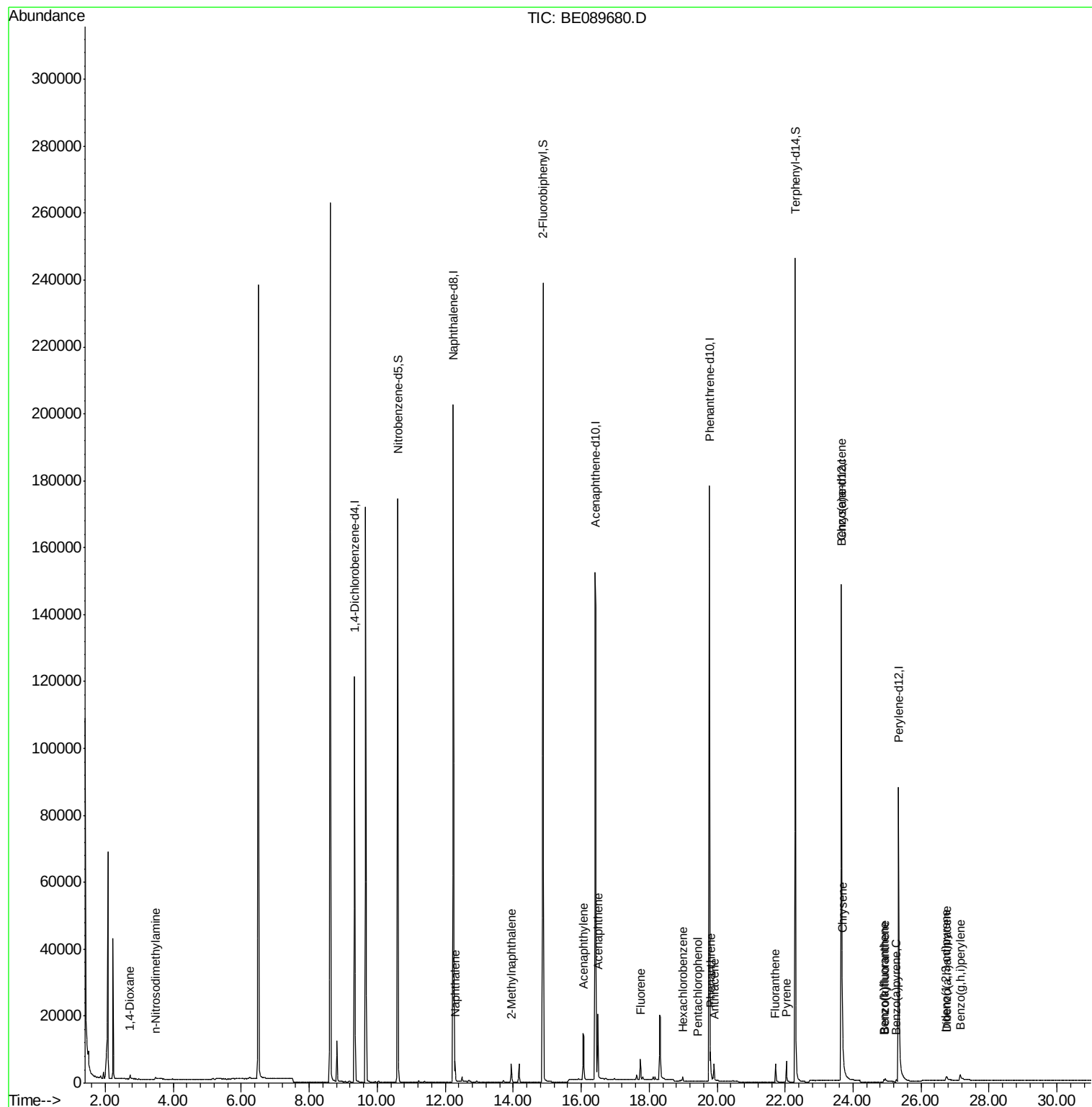
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
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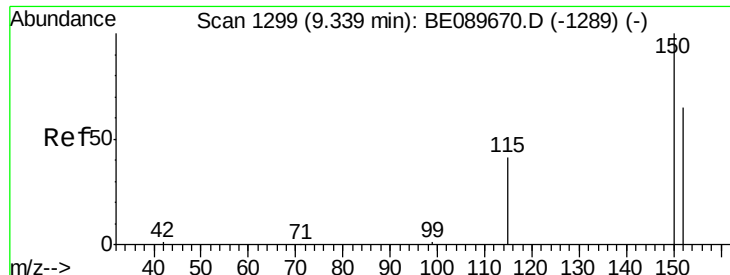
Instrument :
BNA_E
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MDL-06-S

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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: BE089680.D

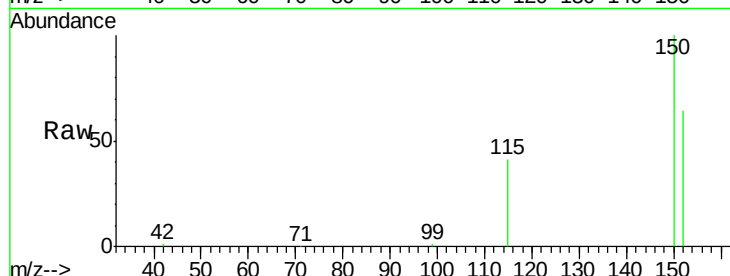
Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-S



Tgt Ion: 152 Resp: 52899

Ion Ratio Lower Upper

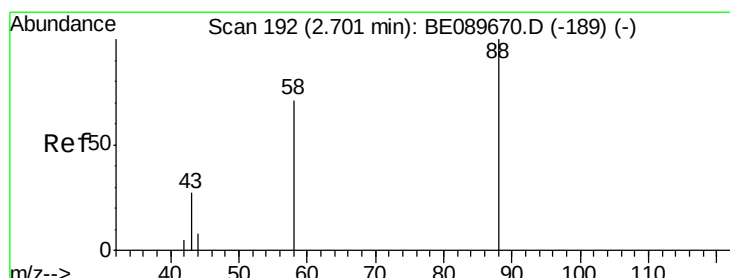
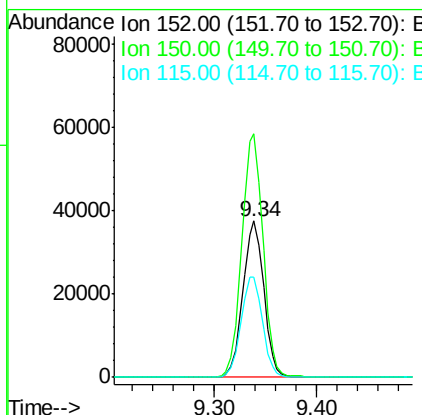
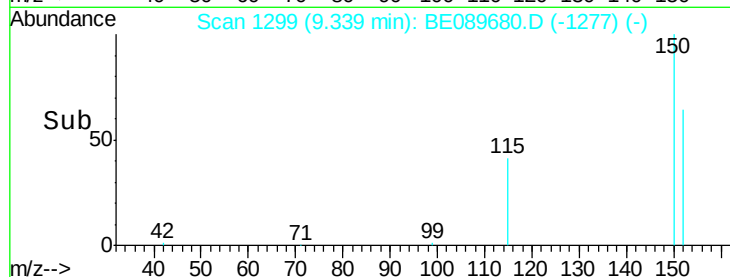
152 100

150 156.0 123.4 185.0

115 64.2 50.8 76.2

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#2

1,4-Dioxane

Concen: 0.15 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.02 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

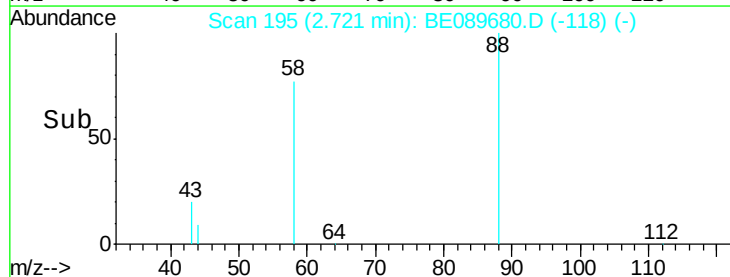
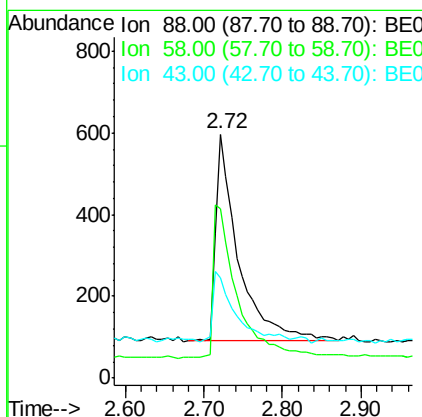
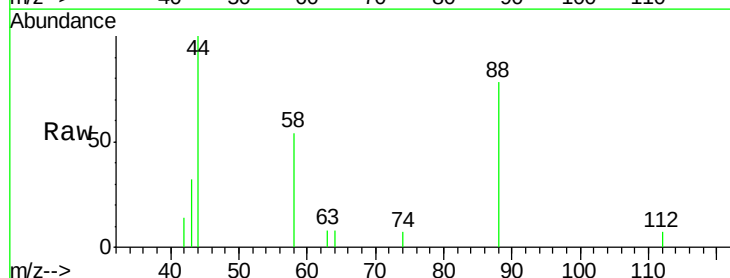
Tgt Ion: 88 Resp: 1002

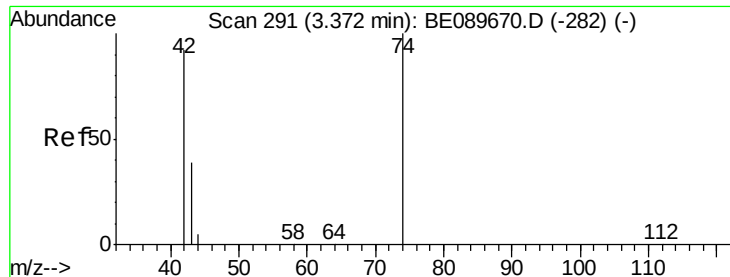
Ion Ratio Lower Upper

88 100

58 79.4 62.4 93.6

43 0.0 26.6 40.0#





#3

n-Nitrosodimethylamine

Concen: 0.18 ng

RT: 3.47 min Scan# 306

Delta R.T. 0.10 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

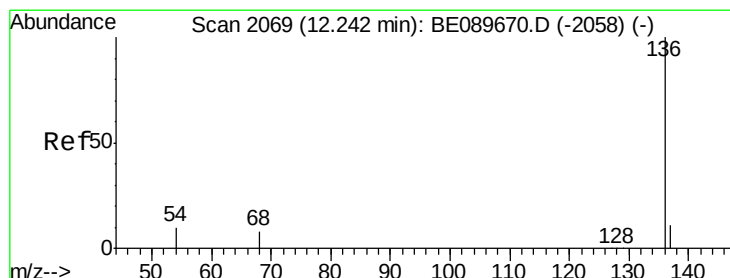
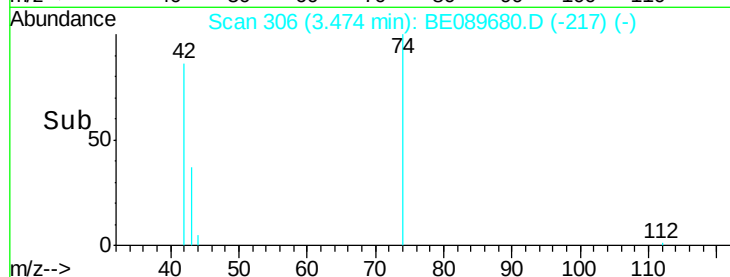
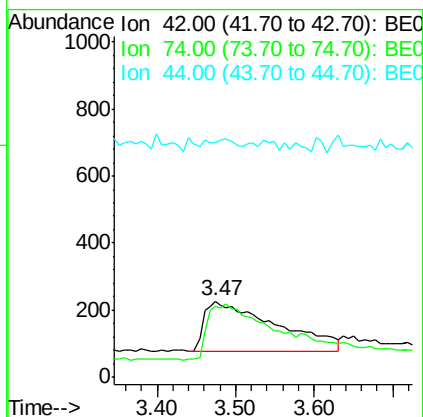
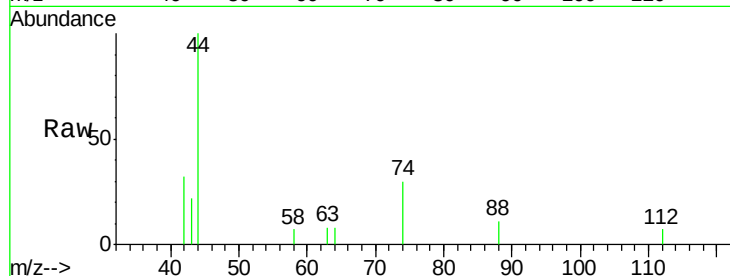
ClientSampleId :

MDL-06-S

Tgt Ion:	42	Resp:	957
Ion Ratio	Lower	Upper	
42	100		
74	140.8	91.1	136.7#
44	8.8	4.7	7.1#

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#4

Naphthalene-d8

Concen: 5.00 ng

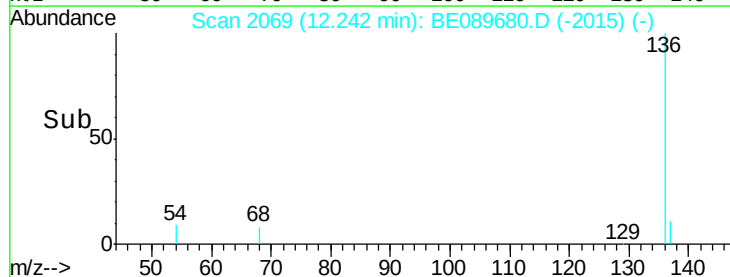
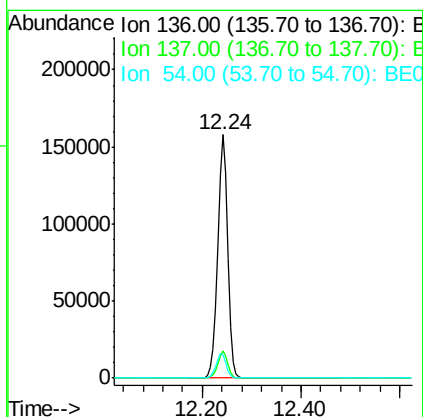
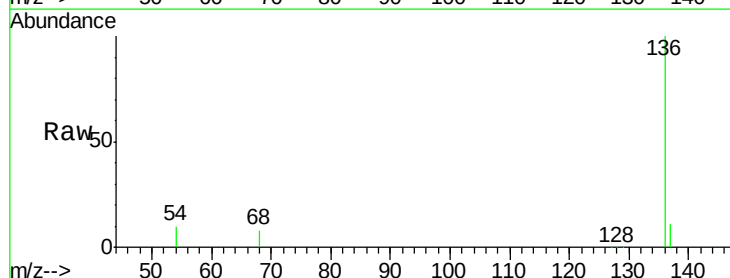
RT: 12.24 min Scan# 2069

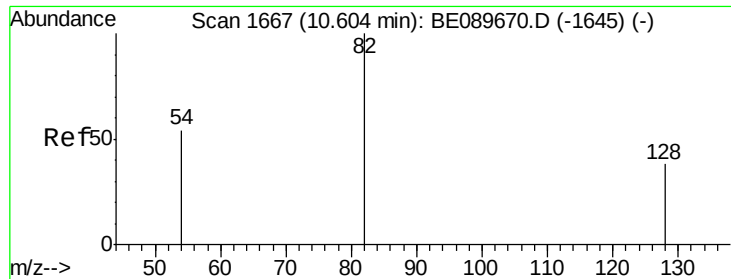
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	136	Resp:	226402
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.7	13.1
54	9.5	7.8	11.8





#5

Nitrobenzene-d5

Concen: 8.85 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089680.D

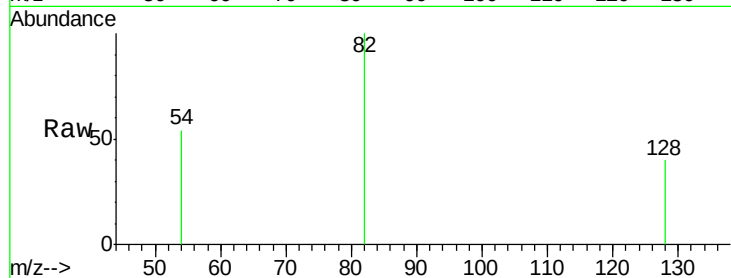
Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

MDL-06-S



Tgt Ion: 82 Resp: 118998

Ion Ratio Lower Upper

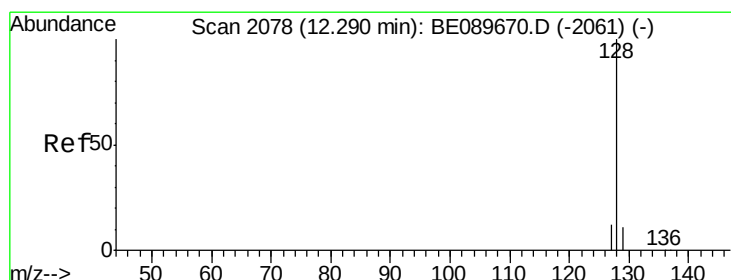
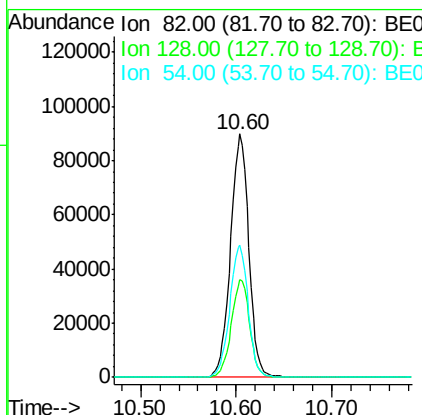
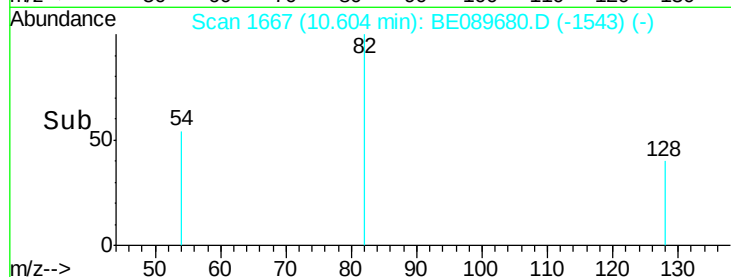
82 100

128 40.0 30.6 46.0

54 54.4 43.6 65.4

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#6

Naphthalene

Concen: 0.17 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

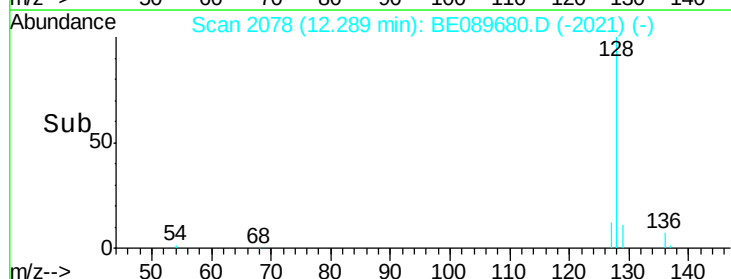
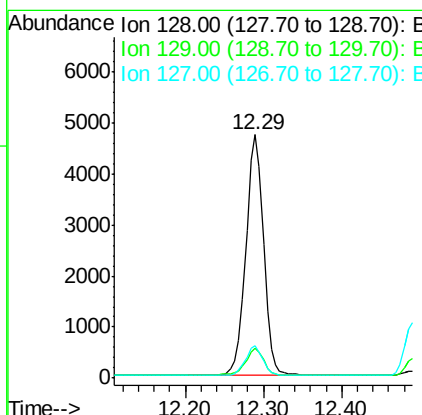
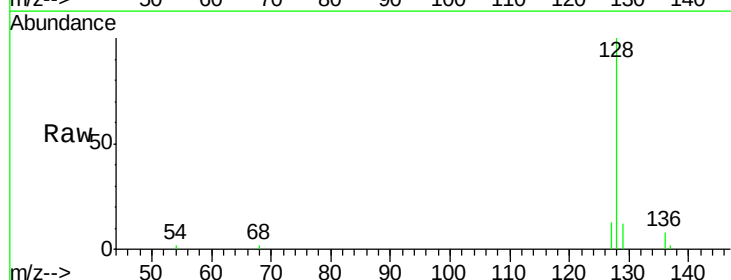
Tgt Ion: 128 Resp: 7478

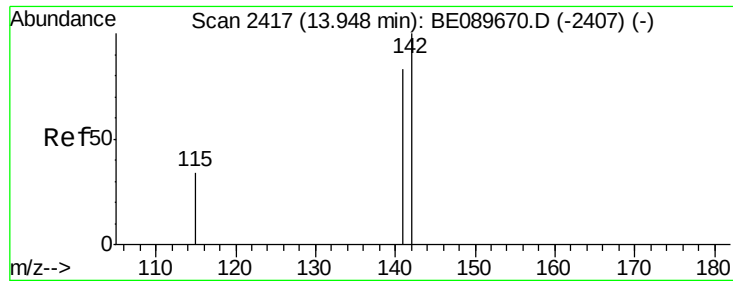
Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

127 13.3 9.7 14.5





#7

2-Methylnaphthalene

Concen: 0.16 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

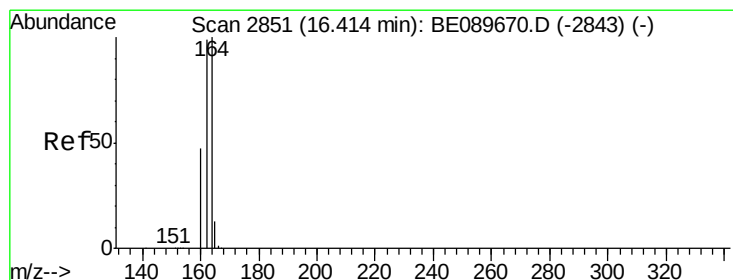
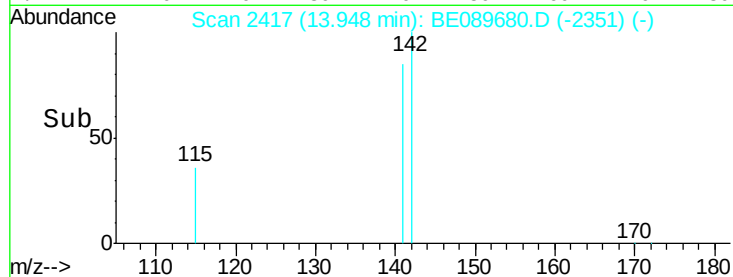
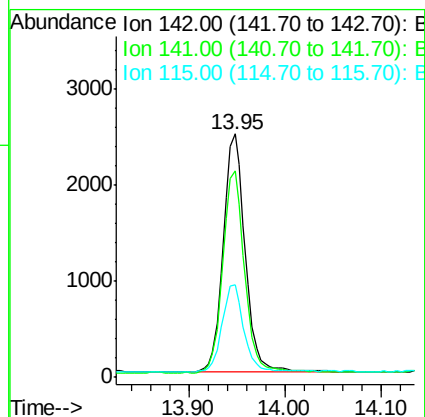
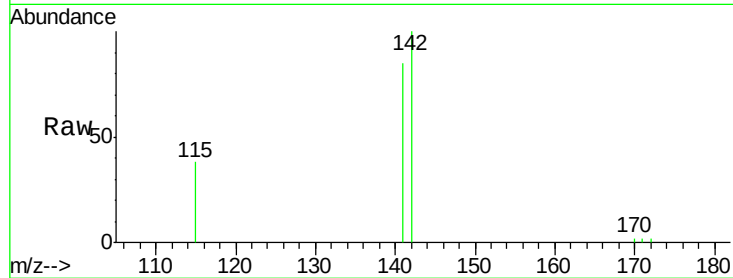
ClientSampleId :

MDL-06-S

Tgt Ion:	142	Resp:	3907
Ion Ratio	Lower	Upper	
142	100		
141	85.0	66.0	99.0
115	38.0	27.4	41.0

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#8

Acenaphthene-d10

Concen: 5.00 ng

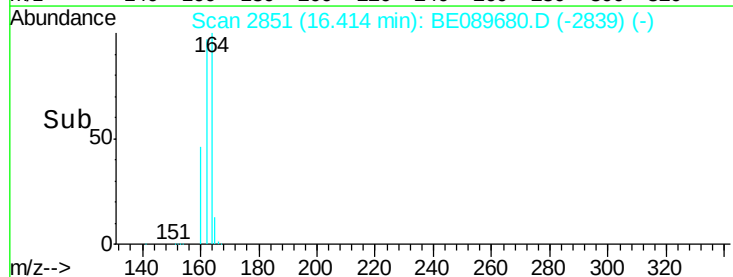
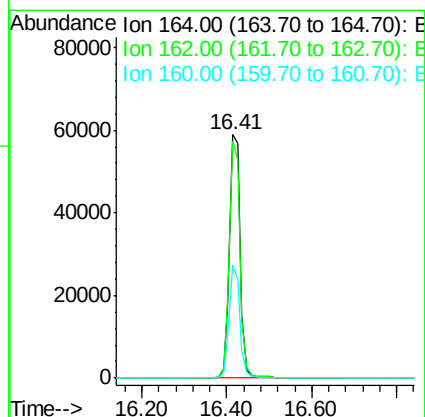
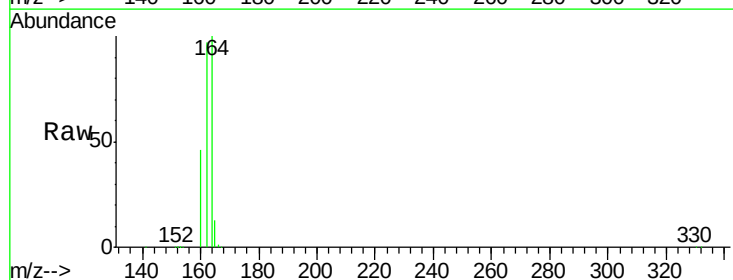
RT: 16.41 min Scan# 2851

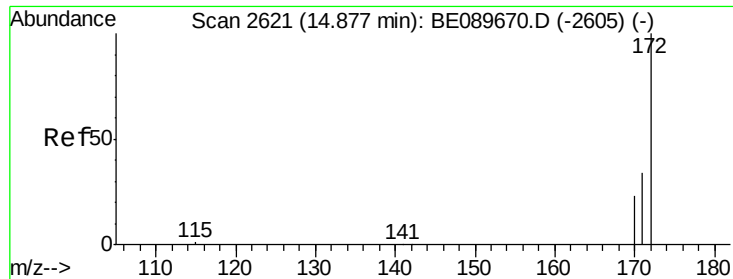
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	164	Resp:	102692
Ion Ratio	Lower	Upper	
164	100		
162	97.4	79.4	119.2
160	46.3	37.6	56.4





#9

2-Fluorobiphenyl

Concen: 9.56 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

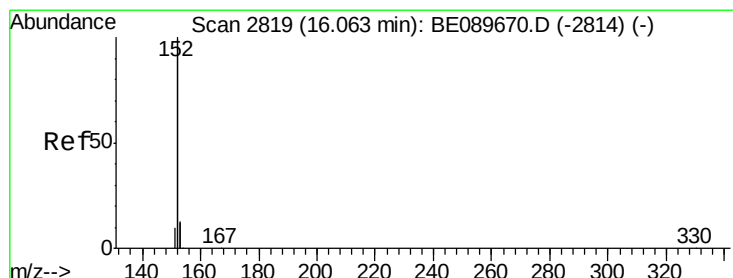
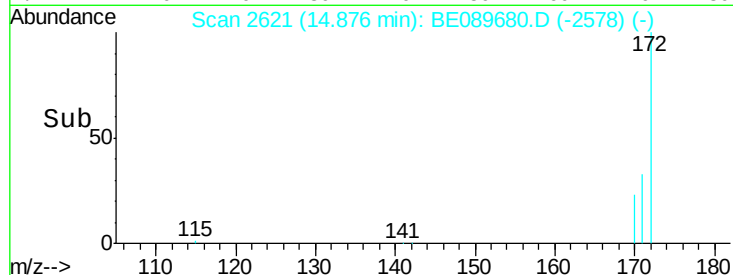
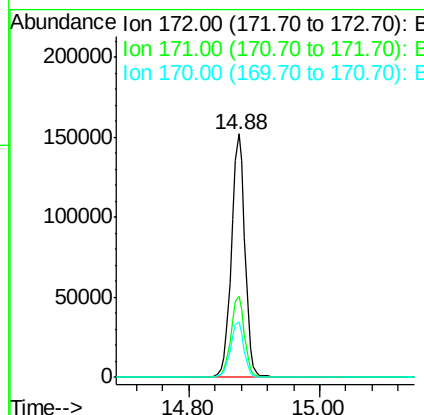
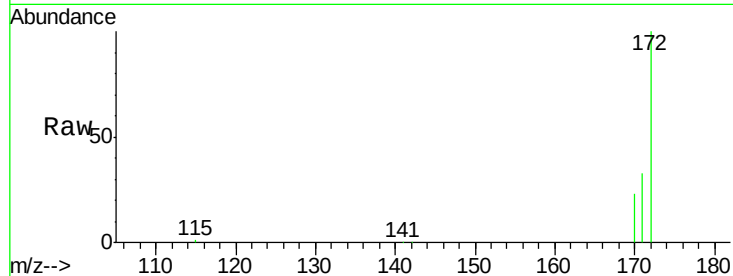
ClientSampleId :

MDL-06-S

Tgt Ion:	172	Resp:	218266
Ion Ratio		Lower	Upper
172	100		
171	33.5	27.3	40.9
170	22.8	18.5	27.7

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#10

Acenaphthylene

Concen: 0.14 ng

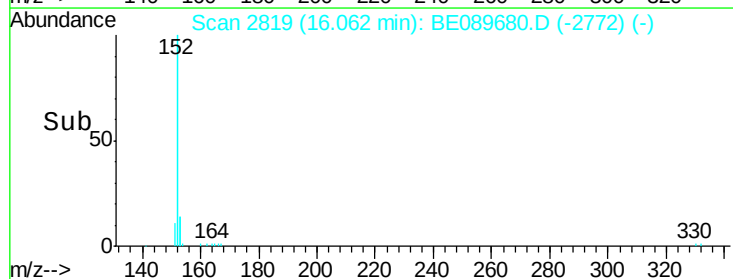
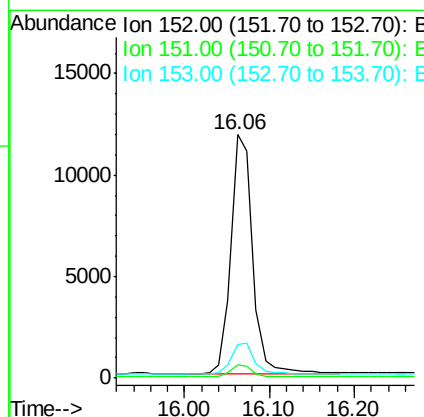
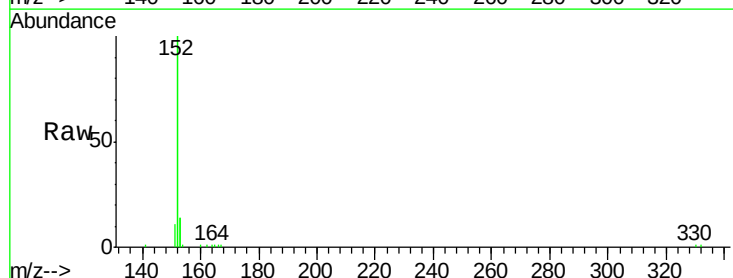
RT: 16.06 min Scan# 2819

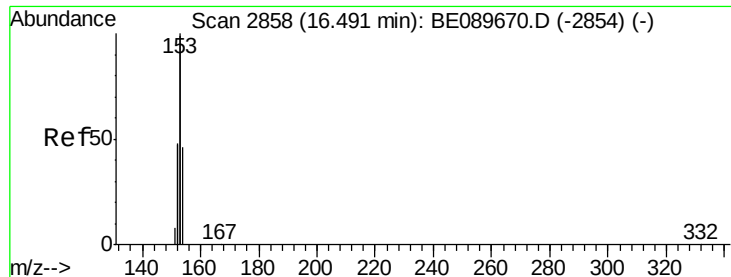
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	152	Resp:	20748
Ion Ratio		Lower	Upper
152	100		
151	4.9	3.8	5.6
153	13.2	10.4	15.6





#11

Acenaphthene

Concen: 0.16 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089680.D

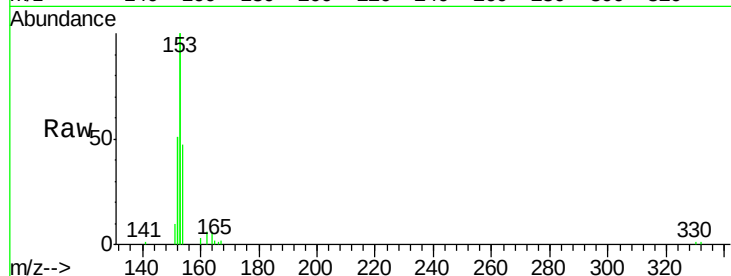
Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

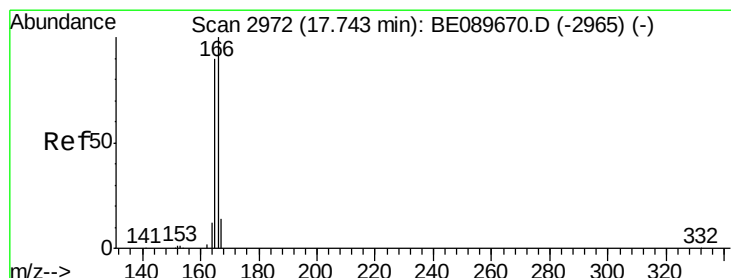
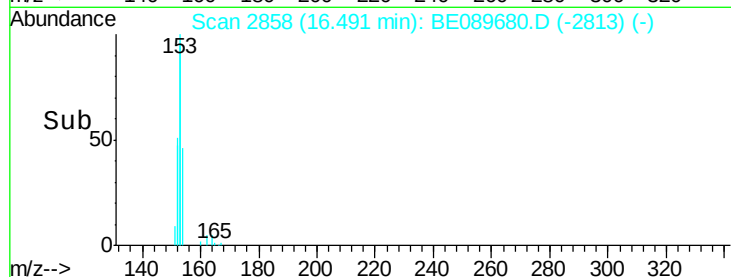
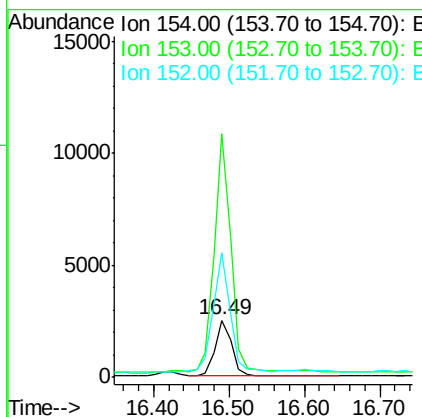
MDL-06-S



Tgt Ion	Ratio	Lower	Upper
154	100		
153	429.0	345.8	518.8
152	218.6	168.6	252.8

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#12

Fluorene

Concen: 0.17 ng

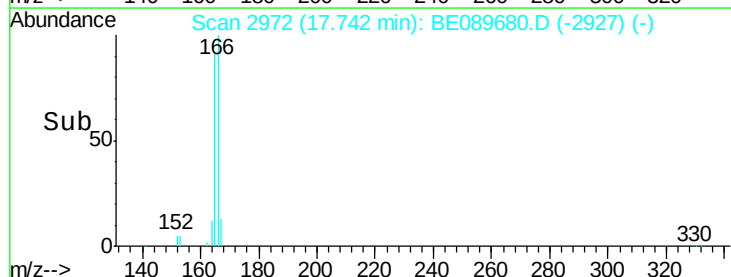
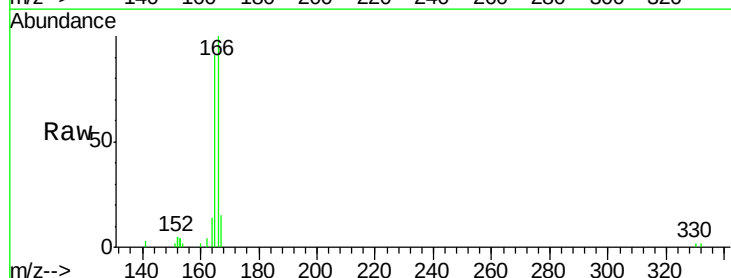
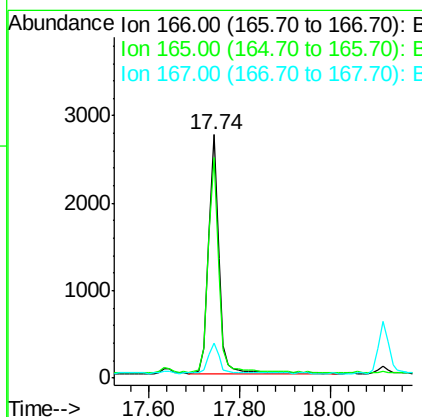
RT: 17.74 min Scan# 2972

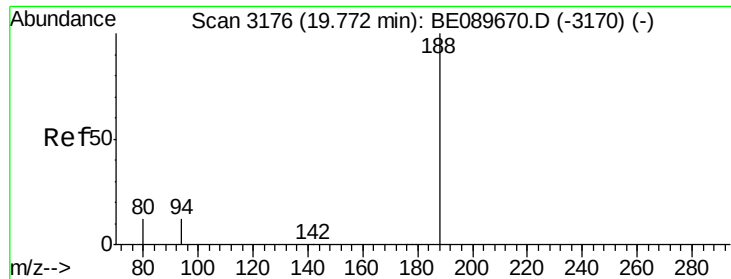
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	89.8	73.6	110.4
167	13.2	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: BE089680.D

Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

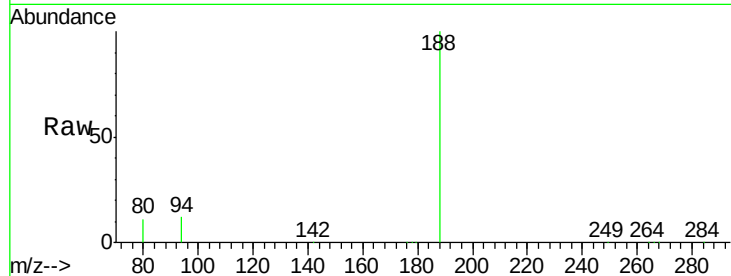
ClientSampleId :

MDL-06-S

Tgt Ion:	188	Resp:	185693
Ion Ratio	Lower	Upper	
188	100		
94	11.5	9.4	14.2
80	11.4	9.5	14.3

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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

19.77

150000

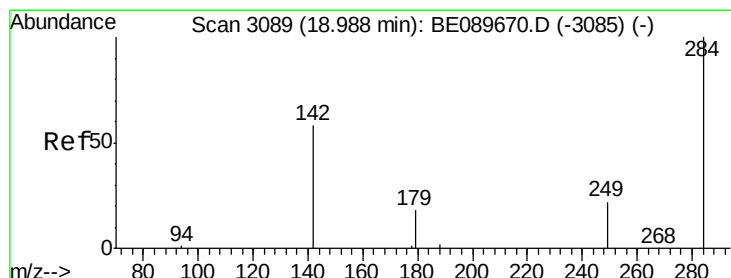
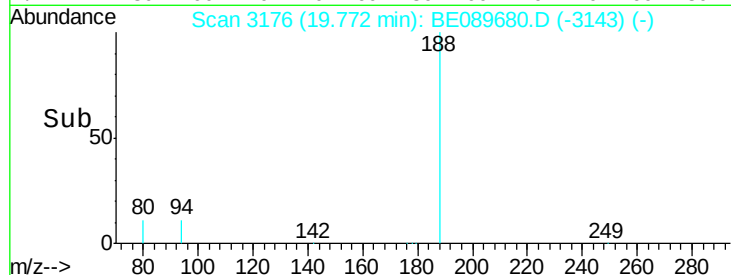
100000

50000

0

19.70 19.80 19.90

Time-->



#14

Hexachlorobenzene

Concen: 0.18 ng

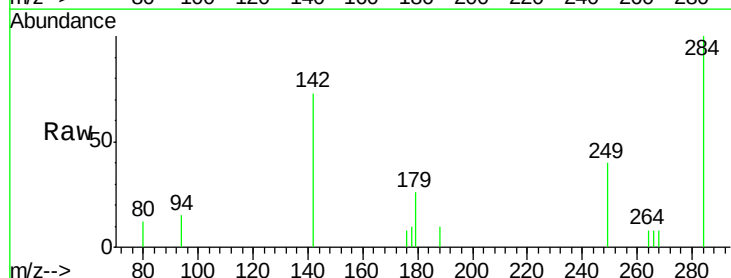
RT: 18.99 min Scan# 3089

Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	284	Resp:	842
Ion Ratio	Lower	Upper	
284	100		
142	70.0	55.4	83.2
249	32.1	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

18.99

800

600

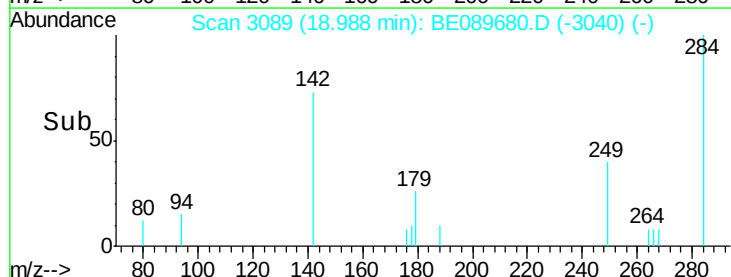
400

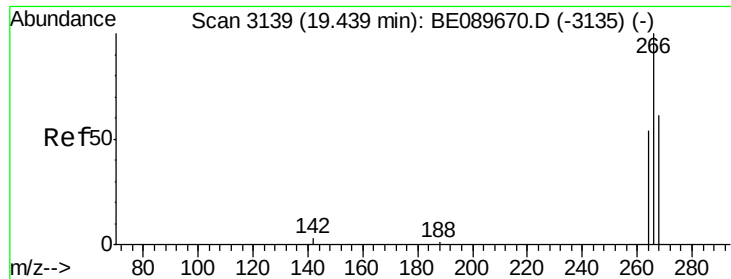
200

0

18.90 19.00 19.10

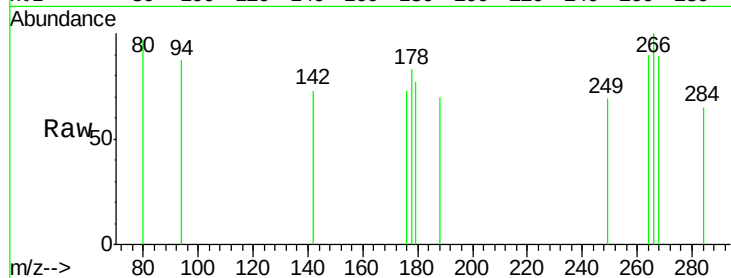
Time-->





#15
 Pentachlorophenol
 Concen: 0.32 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. -0.00 min
 Lab File: BE089680.D
 Acq: 24 Feb 2015 20:52

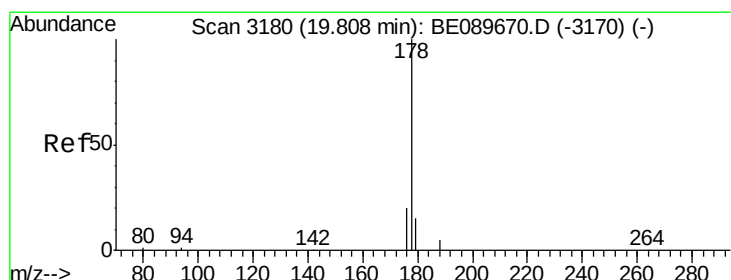
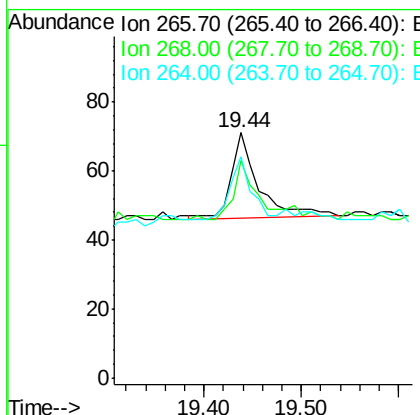
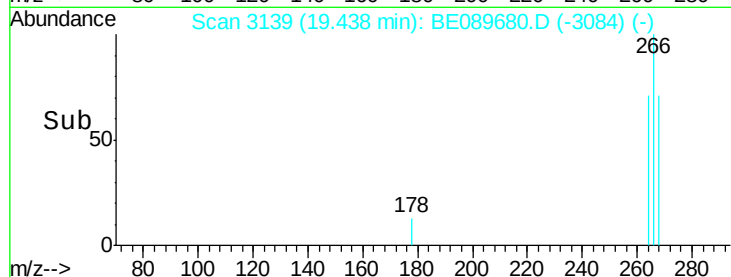
Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S



Tgt Ion	Ratio	Lower	Upper
266	100		
268	88.7	56.3	84.5#
264	90.1	51.8	77.8#

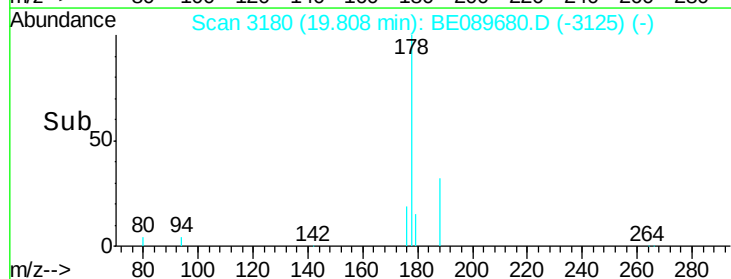
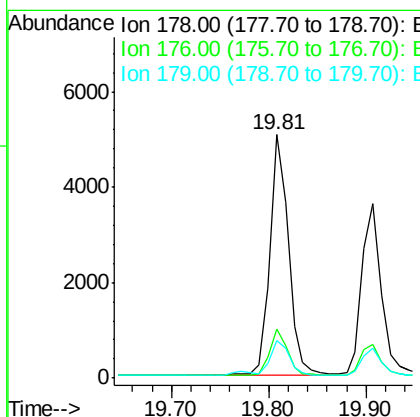
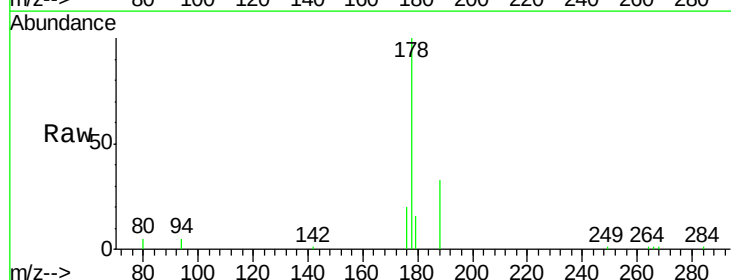
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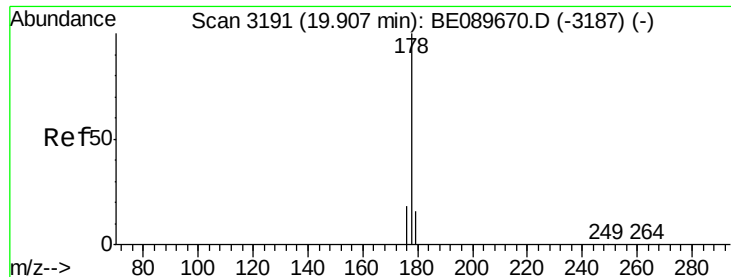
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#16
 Phenanthrene
 Concen: 0.17 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089680.D
 Acq: 24 Feb 2015 20:52

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	17.0	12.5	18.7





#17

Anthracene

Concen: 0.16 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

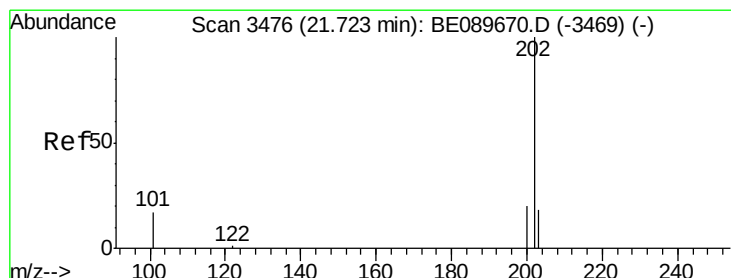
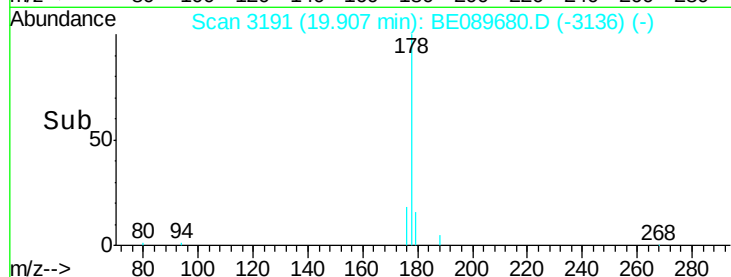
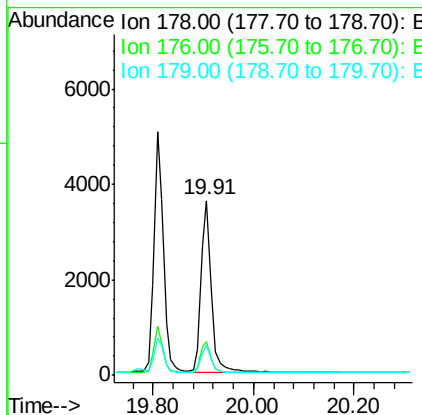
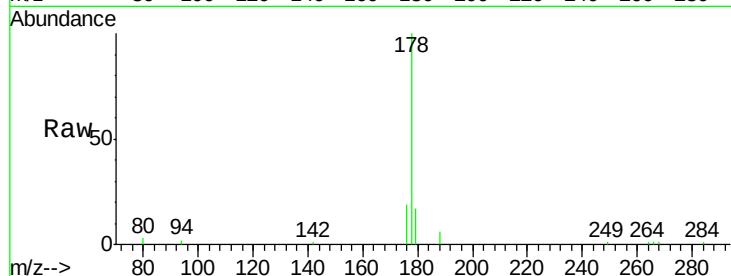
ClientSampleId :

MDL-06-S

Tgt Ion:	178	Resp:	5262
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.8	22.2
179	14.6	12.2	18.2

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#18

Fluoranthene

Concen: 0.15 ng

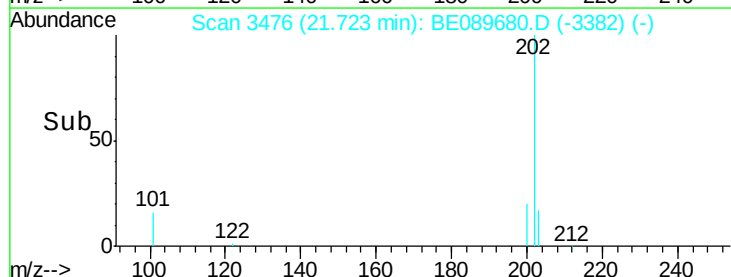
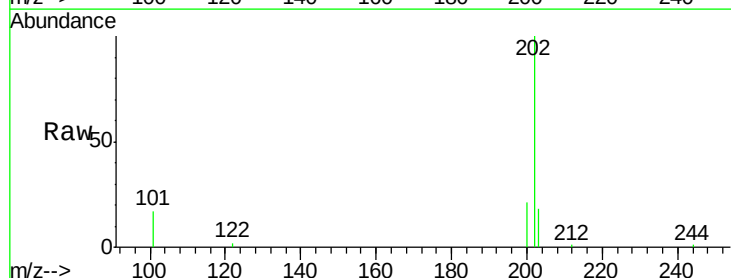
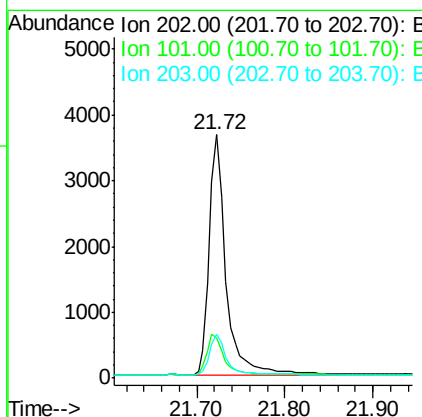
RT: 21.72 min Scan# 3476

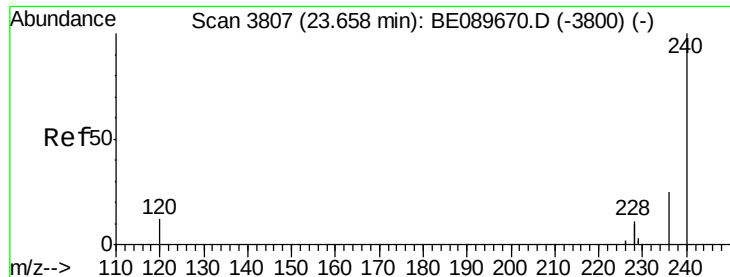
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	202	Resp:	4877
Ion Ratio	Lower	Upper	
202	100		
101	17.4	14.9	22.3
203	16.8	13.8	20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089680.D

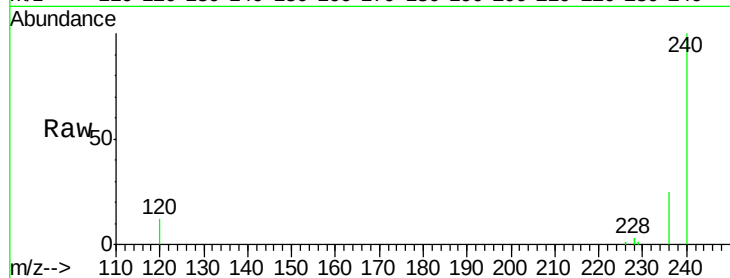
Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

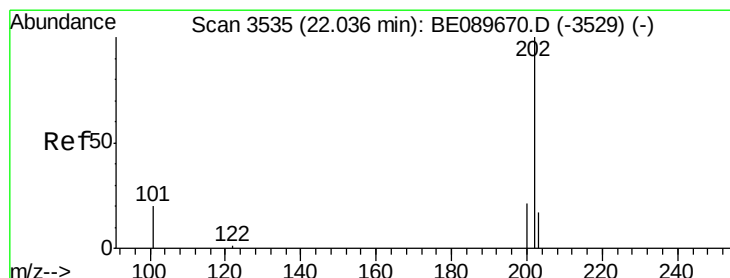
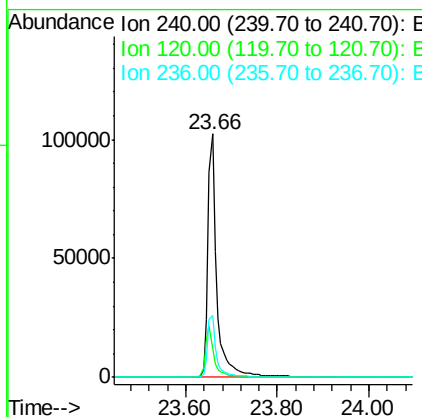
MDL-06-S



Tgt Ion:	240	Resp:	139127
Ion Ratio	Lower	Upper	
240	100		
120	12.0	9.4	14.0
236	25.3	19.9	29.9

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#20

Pyrene

Concen: 0.15 ng

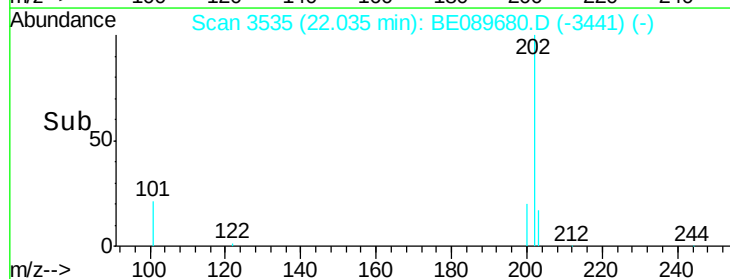
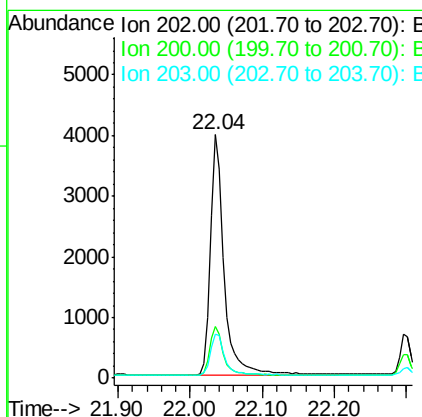
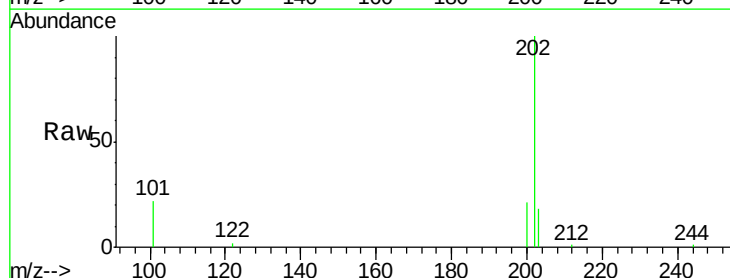
RT: 22.04 min Scan# 3535

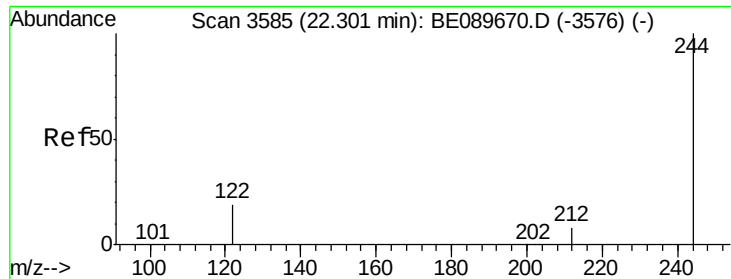
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	202	Resp:	5200
Ion Ratio	Lower	Upper	
202	100		
200	20.3	16.4	24.6
203	18.2	13.9	20.9





#21

Terphenyl-d14

Concen: 12.14 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

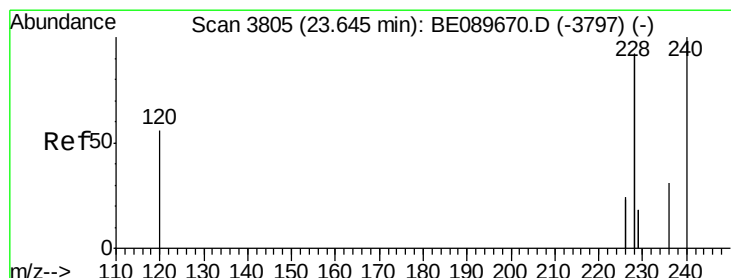
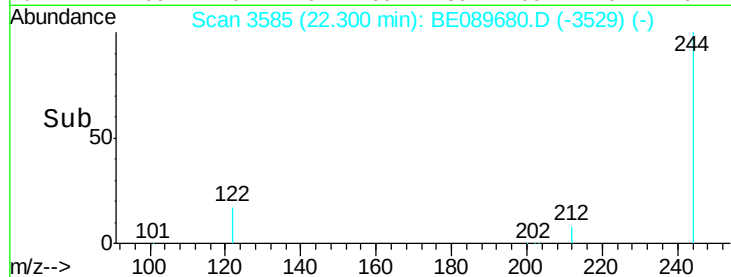
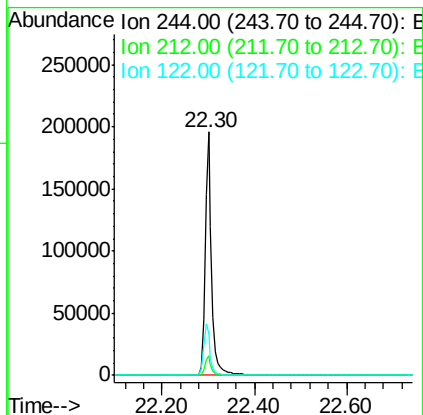
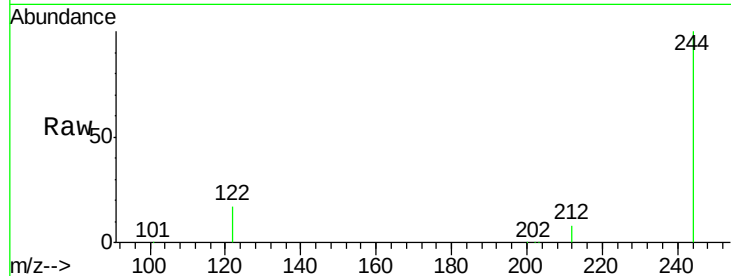
ClientSampled :

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Tgt Ion:	244	Resp:	198098
Ion Ratio	Lower	Upper	
244	100		
212	8.2	7.0	10.6
122	16.9	15.4	23.0

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#22

Benzo(a)anthracene

Concen: 0.17 ng

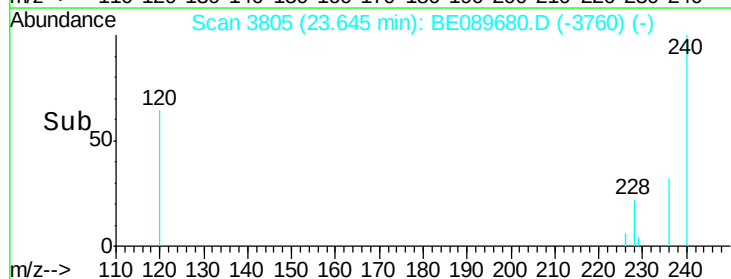
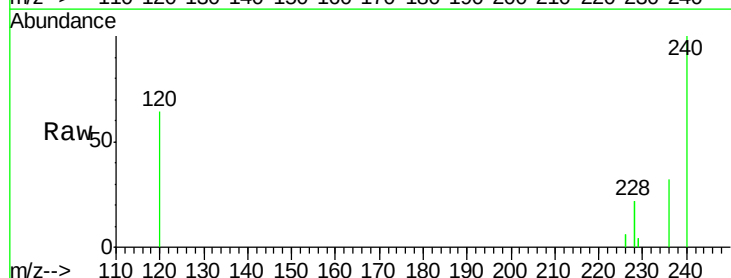
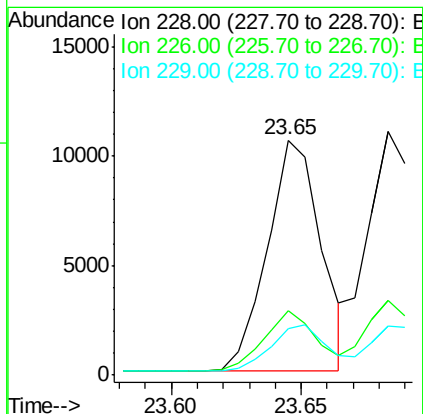
RT: 23.65 min Scan# 3805

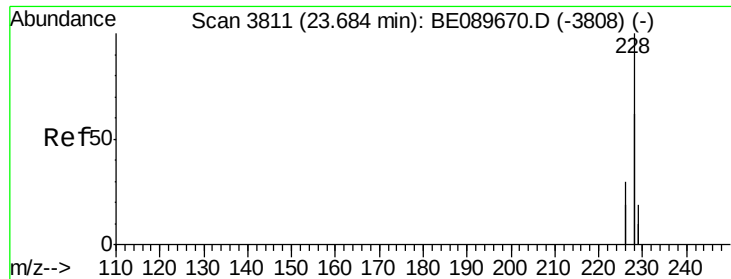
Delta R.T. -0.00 min

Lab File: BE089680.D

Acq: 24 Feb 2015 20:52

Tgt Ion:	228	Resp:	15129
Ion Ratio	Lower	Upper	
228	100		
226	27.6	20.6	31.0
229	19.6	15.8	23.6





#23

Chrysene

Concen: 0.19 ng

RT: 23.68 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089680.D

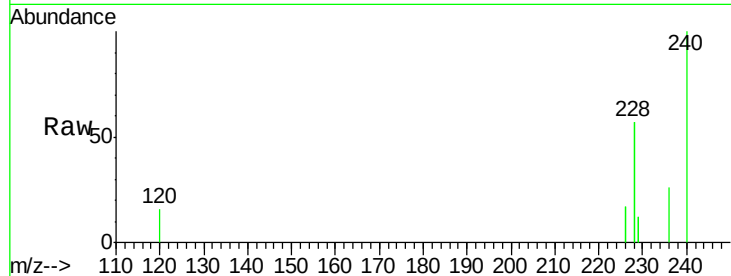
Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

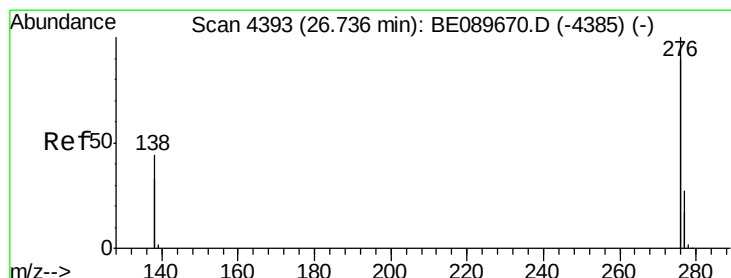
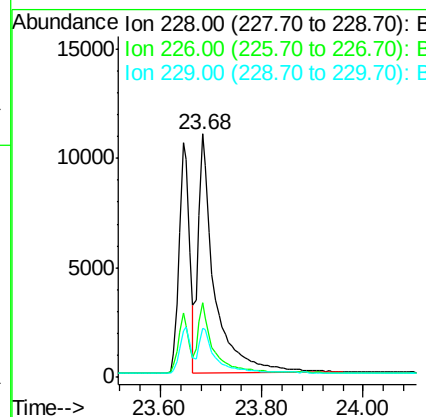
MDL-06-S



Tgt Ion:	228	Resp:	24048
Ion Ratio	Lower	Upper	
228	100		
226	30.6	23.6	35.4
229	20.4	15.3	22.9

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#24

Indeno(1,2,3-cd)pyrene

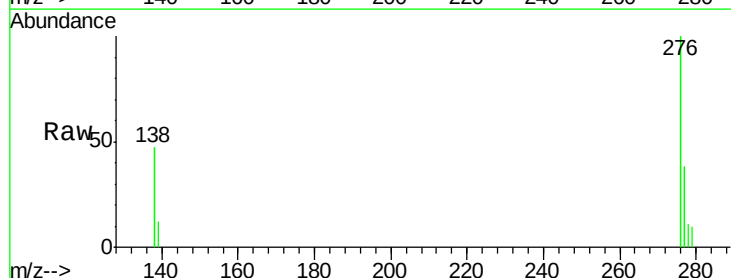
Concen: 0.29 ng

RT: 26.74 min Scan# 4393

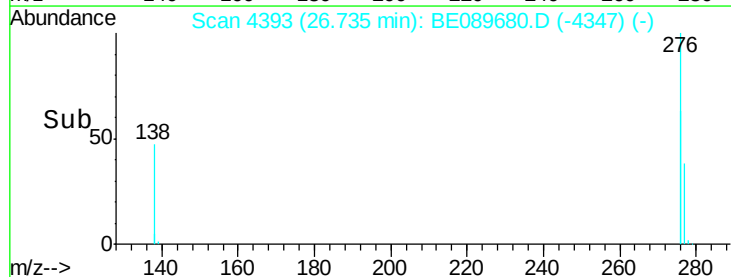
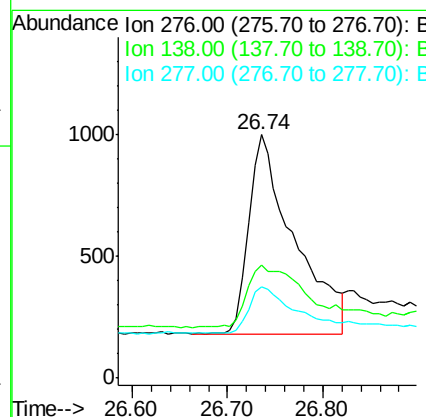
Delta R.T. -0.00 min

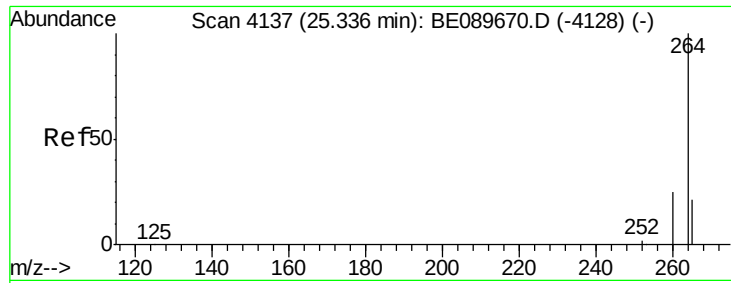
Lab File: BE089680.D

Acq: 24 Feb 2015 20:52



Tgt Ion:	276	Resp:	2692
Ion Ratio	Lower	Upper	
276	100		
138	47.7	0.0	0.0#
277	24.9	5.2	7.8#





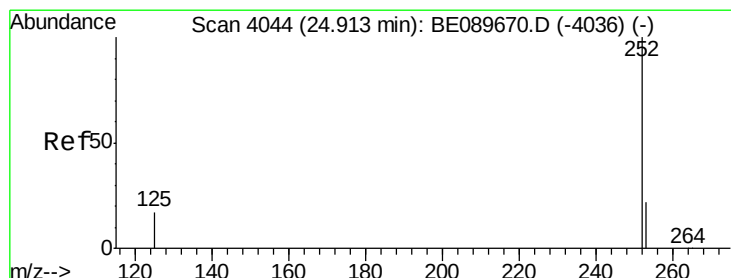
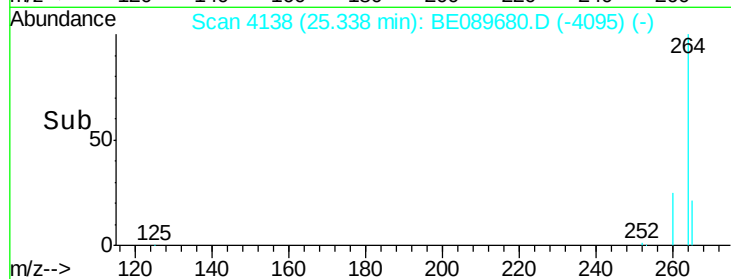
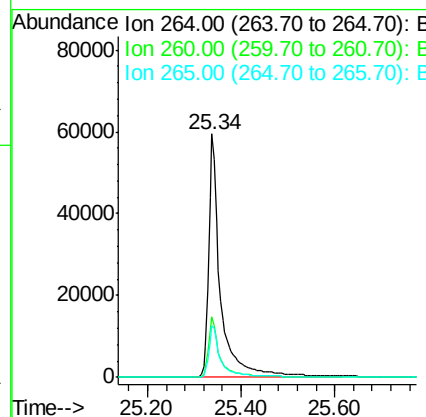
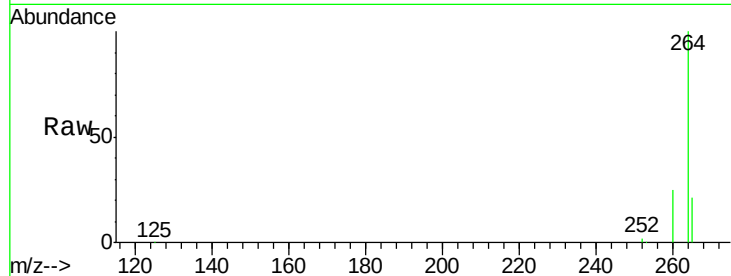
#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089680.D
 Acq: 24 Feb 2015 20:52

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-S

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.1	20.2	30.4
265	21.2	17.0	25.4

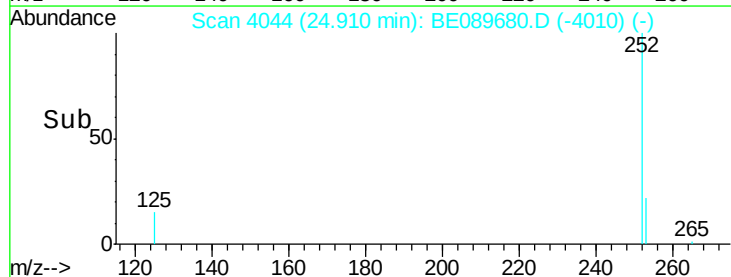
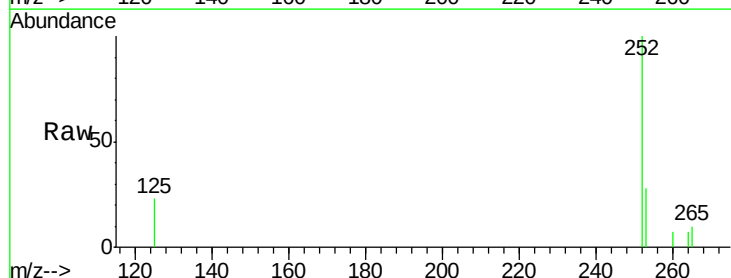
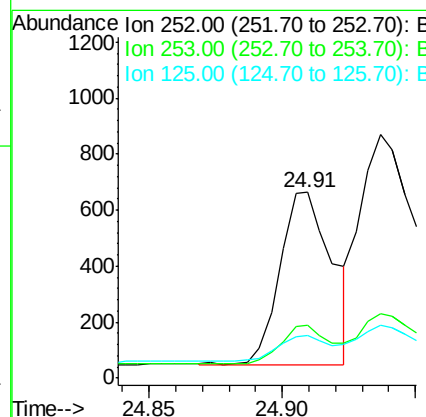
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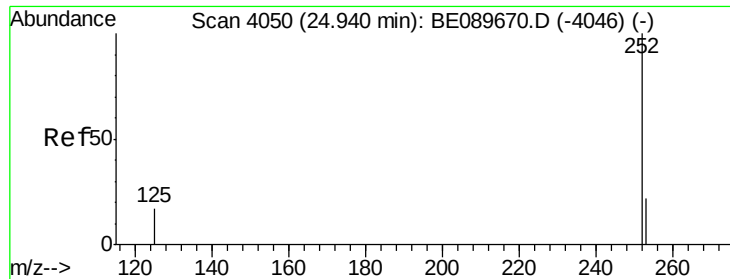
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#26
 Benzo(b)fluoranthene
 Concen: 0.37 ng m
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089680.D
 Acq: 24 Feb 2015 20:52

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	28.2	18.6	27.8#
125	23.3	15.0	22.6#





#27

Benzo(k)fluoranthene

Concen: 0.23 ng m

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089680.D

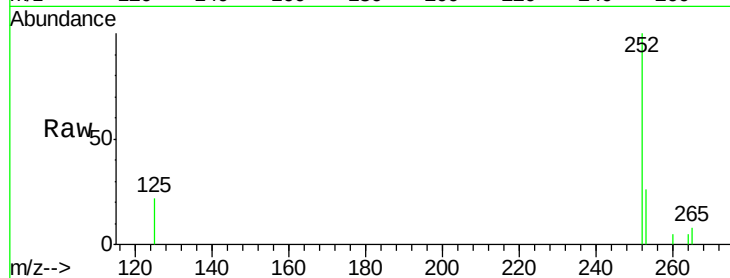
Acq: 24 Feb 2015 20:52

Instrument :

BNA_E

ClientSampleId :

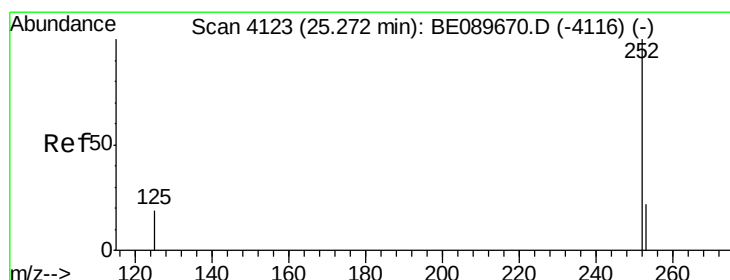
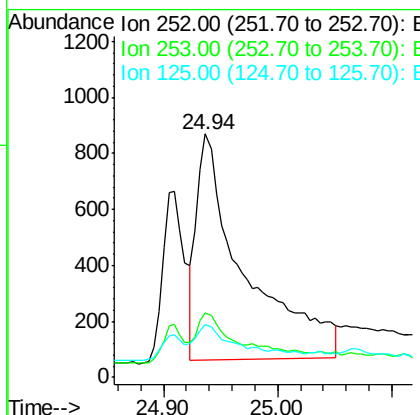
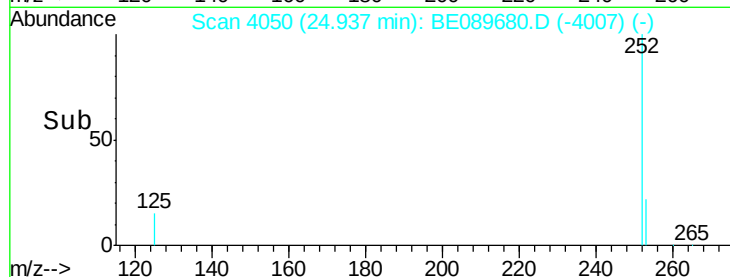
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.5	18.0	27.0
125	21.9	14.3	21.5#

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#28

Benzo(a)pyrene

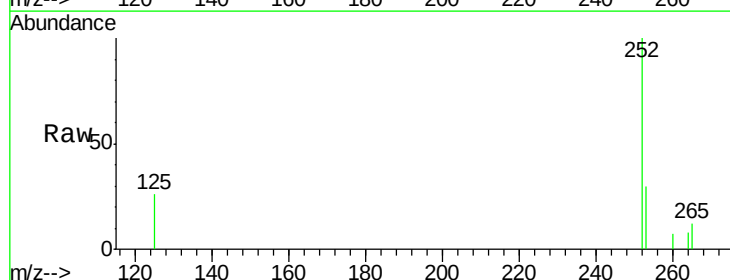
Concen: 0.16 ng

RT: 25.27 min Scan# 4123

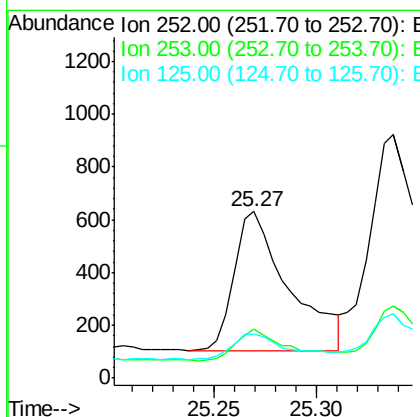
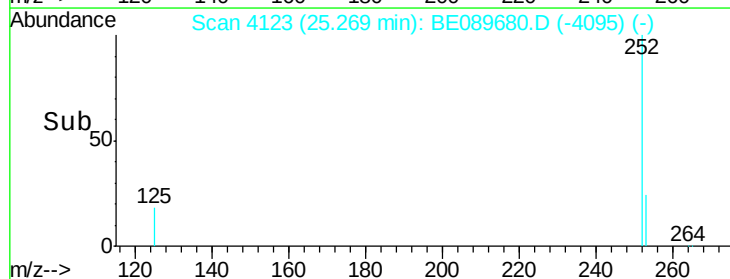
Delta R.T. -0.00 min

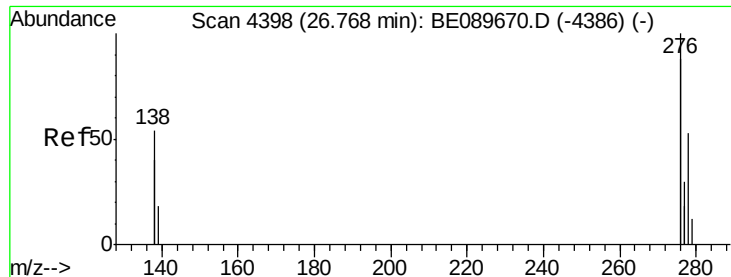
Lab File: BE089680.D

Acq: 24 Feb 2015 20:52



Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.7	18.8	28.2#
125	26.2	16.6	24.8#





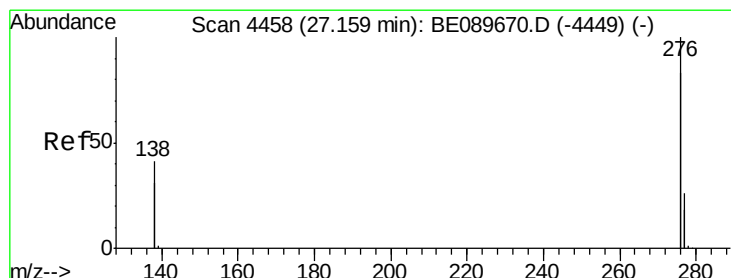
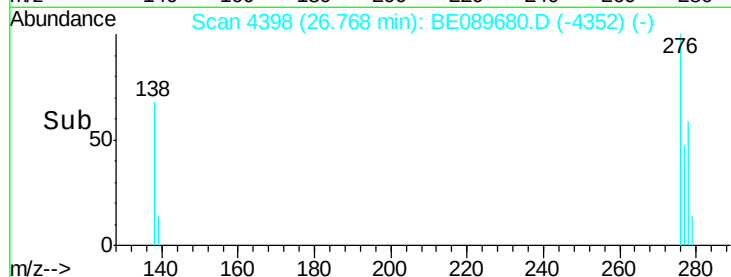
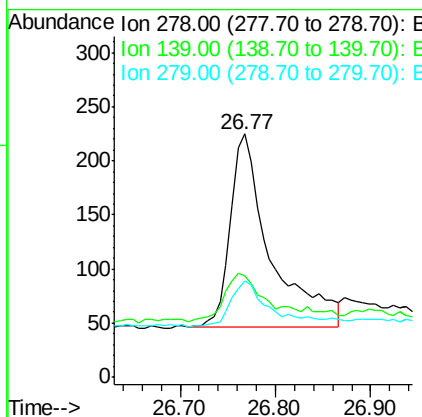
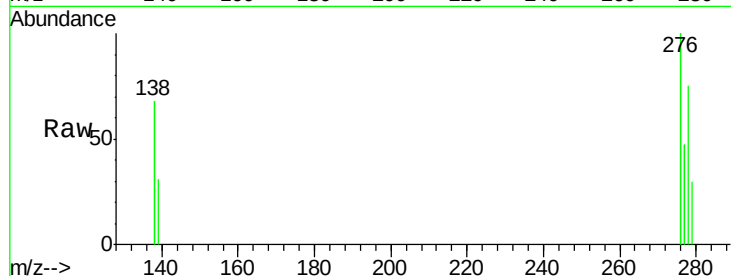
#29
Dibenzo(a,h)anthracene
Concen: 0.35 ng
RT: 26.77 min Scan# 4398
Delta R.T. -0.00 min
Lab File: BE089680.D
Acq: 24 Feb 2015 20:52

Instrument :
BNA_E
ClientSampleId :
MDL-06-S

Tgt Ion	Ratio	Lower	Upper
278	100		
139	41.8	30.4	45.6
279	39.6	22.0	33.0

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#30
Benzo(g,h,i)perylene
Concen: 0.40 ng
RT: 27.15 min Scan# 4457
Delta R.T. -0.01 min
Lab File: BE089680.D
Acq: 24 Feb 2015 20:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	36.3	21.0	31.6
138	48.6	33.0	49.4

