

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010715\
 Data File : BE089353.D
 Acq On : 8 Jan 2015 8:02
 Operator : TP/IZ
 Sample : G1001-04
 Misc : LOQ-SOIL-1.0PPM-SIM
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2015-02

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Quant Time: Jan 08 15:51:22 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 15:21:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	12990	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	52743	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	27950	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	45721	5.00	ng	0.00
15) Chrysene-d12	18.06	240	48417	5.00	ng	0.00
21) Perylene-d12	21.12	264	58611	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.64	82	24607	6.71	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	46278	6.07	ng	0.00
17) Terphenyl-d14	15.85	244	33272	3.88	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.54	128	1503	0.13	ng	# 95
5) 2-Methylnaphthalene	9.39	142	942	0.13	ng	# 96
8) Acenaphthylene	10.47	152	5629	0.12	ng	# 93
9) Acenaphthene	10.69	154	974	0.13	ng	# 95
10) Fluorene	11.34	166	987	0.12	ng	# 99
12) Phenanthrene	12.75	178	5738	0.12	ng	# 94
13) Anthracene	12.84	178	5143	0.11	ng	# 90
14) Fluoranthene	14.96	202	1045	0.10	ng	# 87
16) Pyrene	15.41	202	1072	0.07	ng	# 89
18) Benzo(a)anthracene	18.05	228	3428	0.07	ng	# 86
19) Chrysene	18.12	228	3353	0.07	ng	# 85
20) Indeno(1,2,3-cd)pyrene	23.24	276	2708m	0.06	ng	# 65
22) Benzo(b)fluoranthene	20.37	252	597	0.05	ng	# 73
23) Benzo(k)fluoranthene	20.43	252	874	0.05	ng	# 70
24) Benzo(a)pyrene	21.01	252	606	0.05	ng	# 54
25) Dibenzo(a,h)anthracene	23.32	278	486	0.04	ng	# 66
26) Benzo(g,h,i)perylene	23.82	276	2807	0.05	ng	#

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

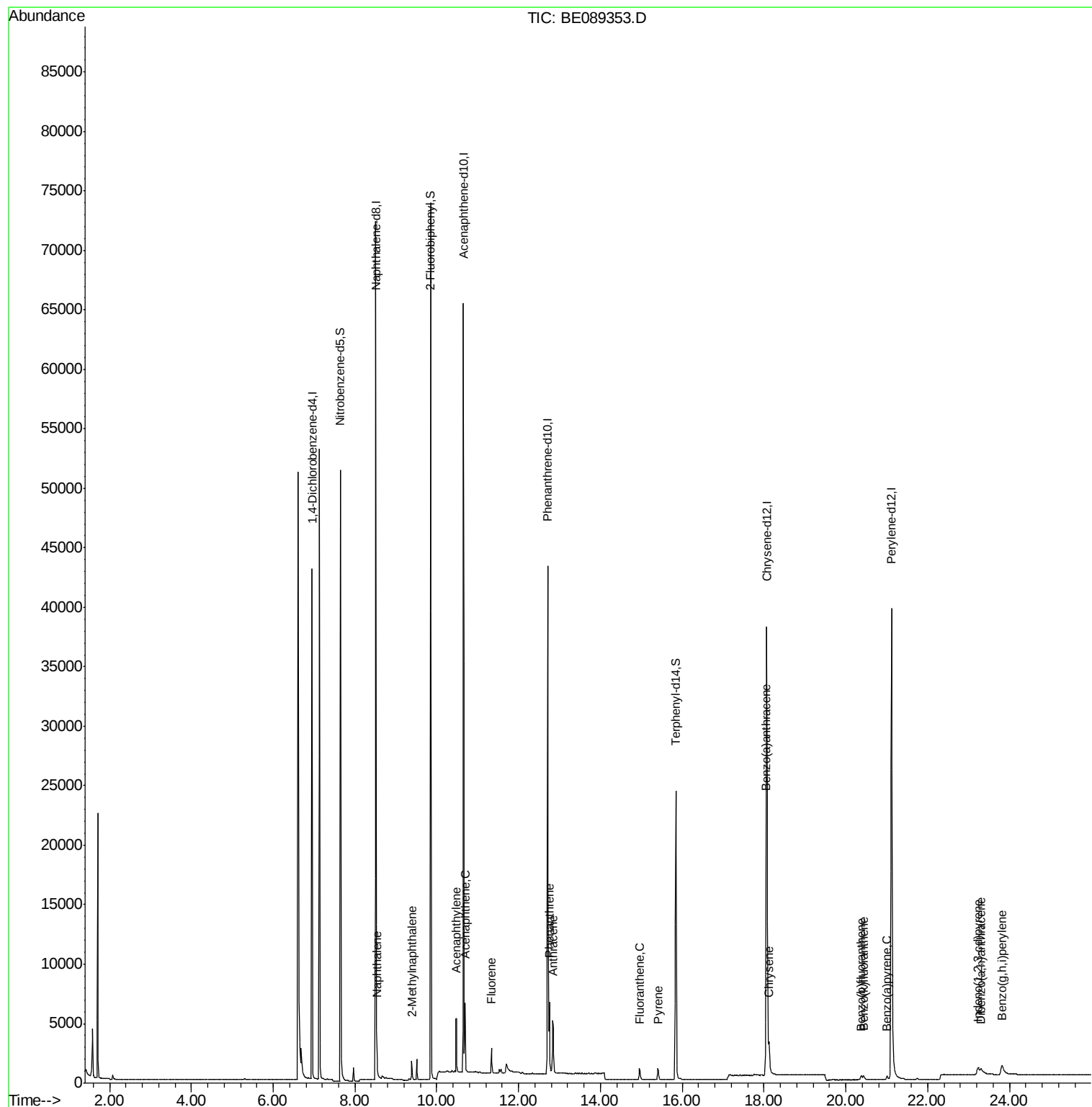
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010715\
Data File : BE089353.D
Acq On : 8 Jan 2015 8:02
Operator : TP/IZ
Sample : G1001-04
Misc : LOQ-SOIL-1.0PPM-SIM
ALS Vial : 26 Sample Multiplier: 1

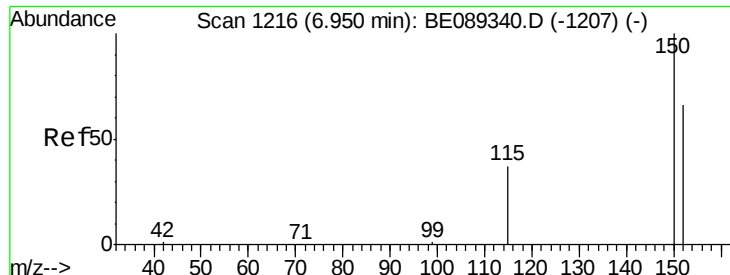
Instrument :
BNA_E
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LOQ-SOIL2015-02

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Quant Time: Jan 08 15:51:22 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
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QLast Update : Thu Jan 08 15:21:44 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. 0.00 min

Lab File: BE089353.D

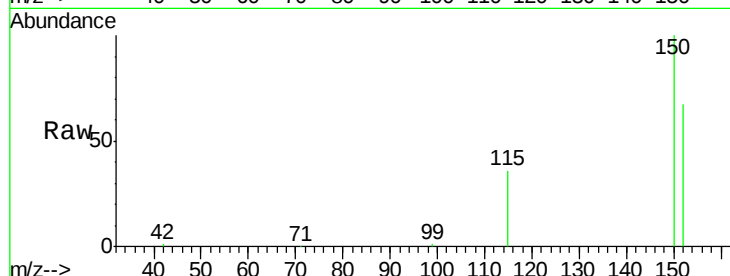
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 12990

Ion Ratio Lower Upper

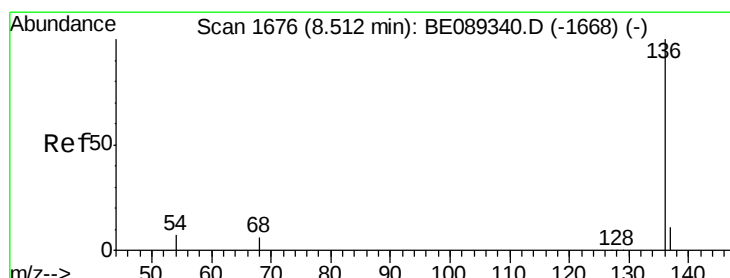
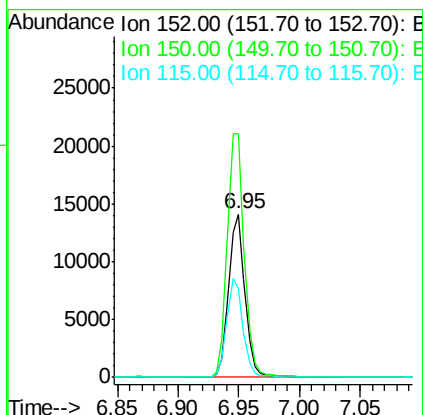
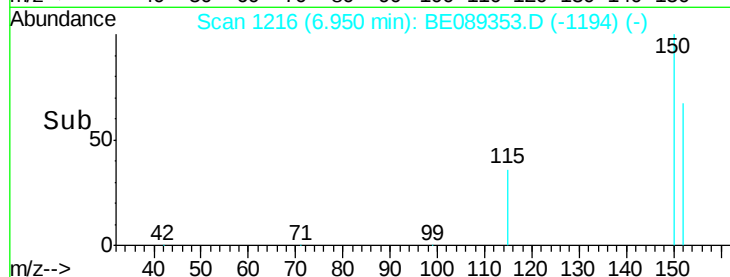
152 100

150 149.1 121.5 182.3

115 54.4 45.2 67.8

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#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion:136 Resp: 52743

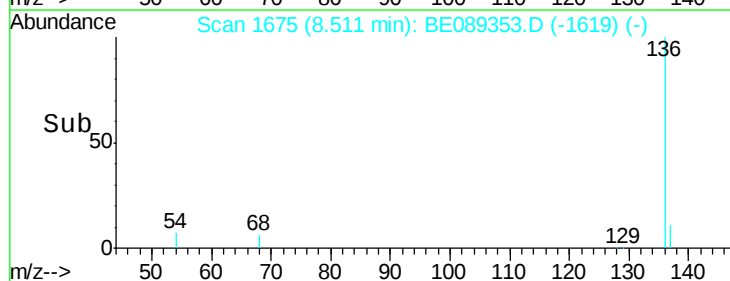
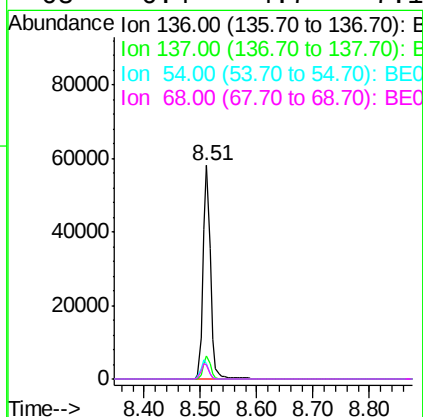
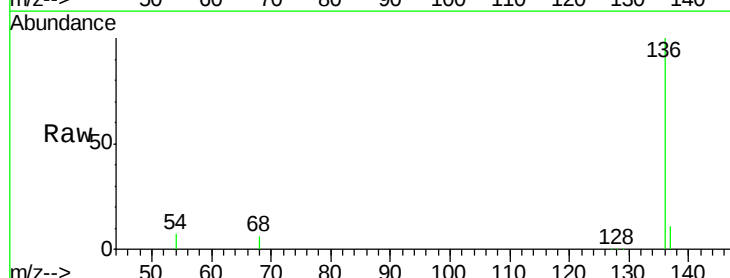
Ion Ratio Lower Upper

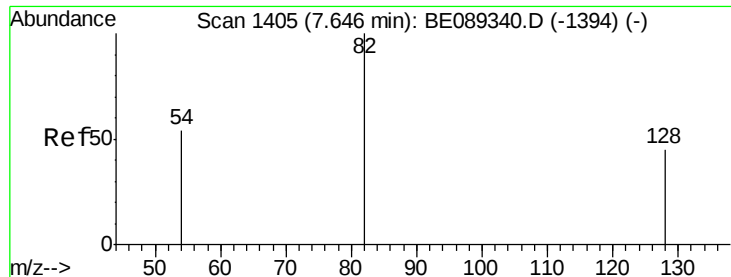
136 100

137 11.0 9.0 13.4

54 7.0 5.4 8.0

68 6.4 4.7 7.1





#3

Nitrobenzene-d5

Concen: 6.71 ng

RT: 7.64 min Scan# 1404

Delta R.T. -0.00 min

Lab File: BE089353.D

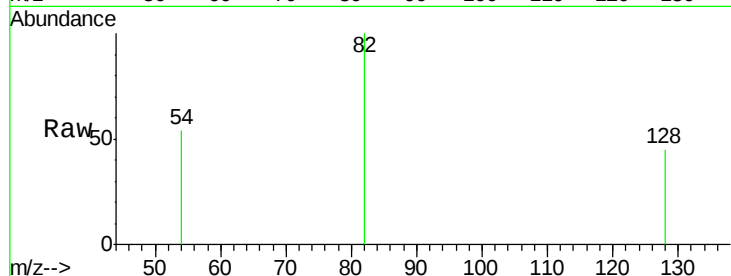
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion: 82 Resp: 24607

Ion Ratio Lower Upper

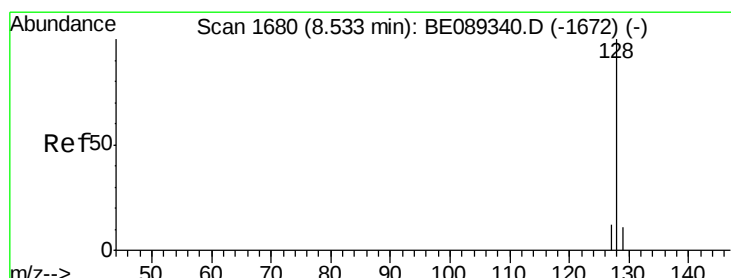
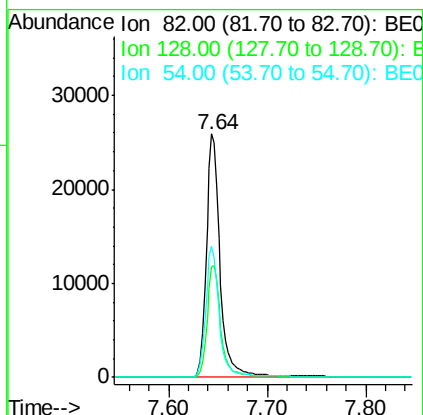
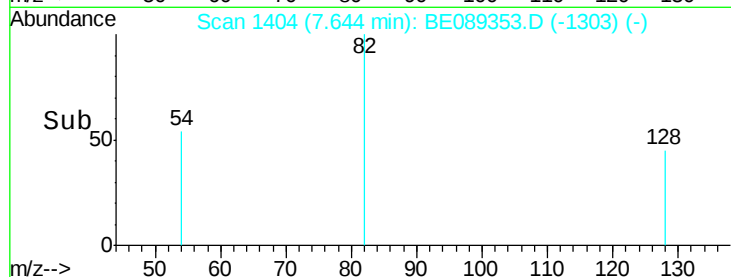
82 100

128 45.2 36.5 54.7

54 53.5 43.5 65.3

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#4

Naphthalene

Concen: 0.13 ng

RT: 8.54 min Scan# 1680

Delta R.T. 0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

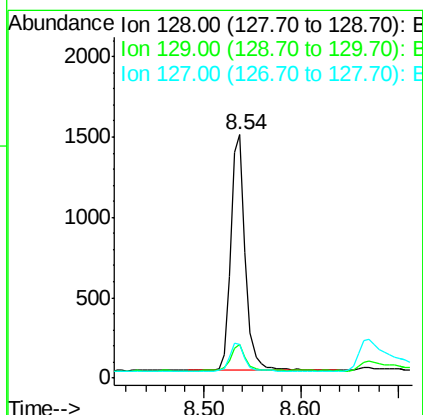
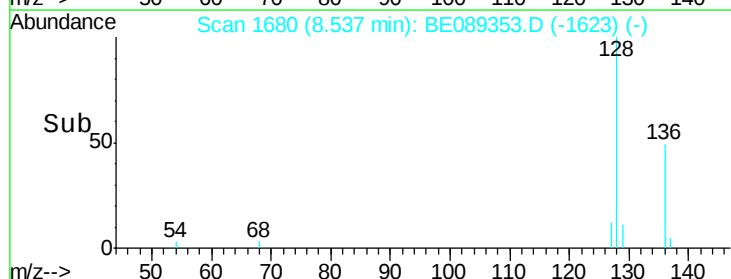
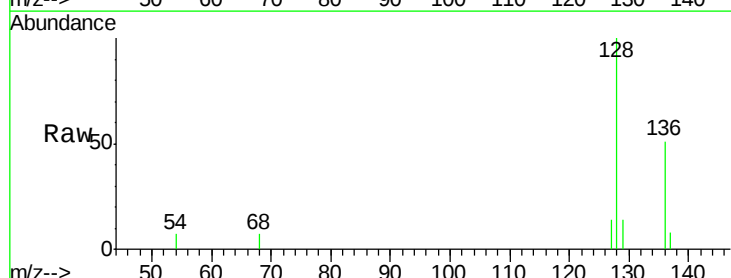
Tgt Ion: 128 Resp: 1503

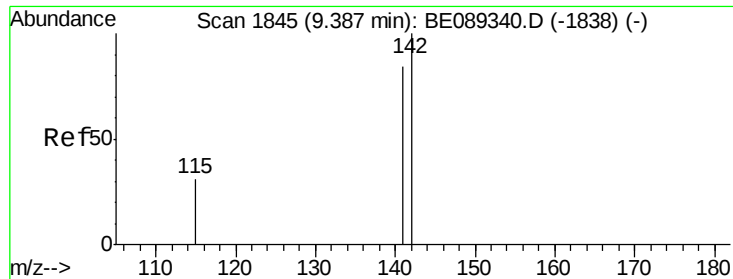
Ion Ratio Lower Upper

128 100

129 13.7 8.8 13.2#

127 14.1 10.0 15.0





#5

2-Methylnaphthalene

Concen: 0.13 ng

RT: 9.39 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BE089353.D

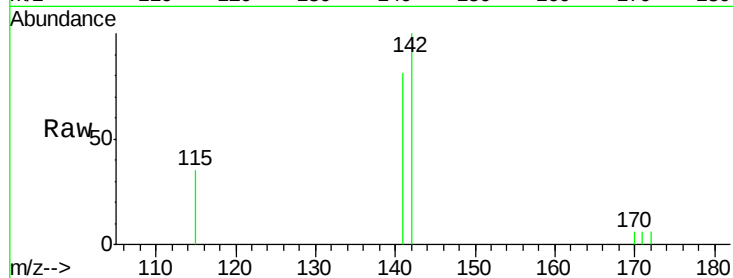
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

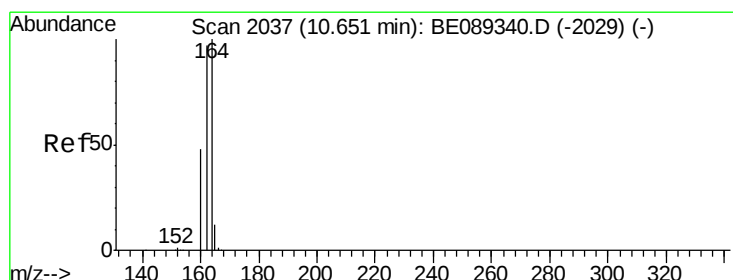
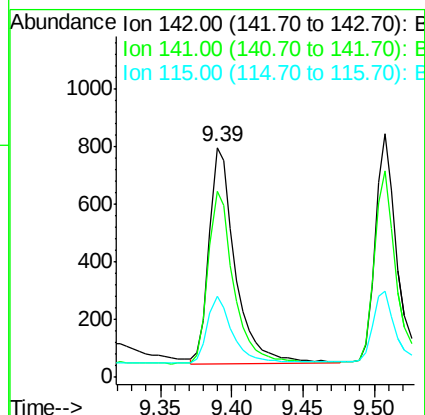
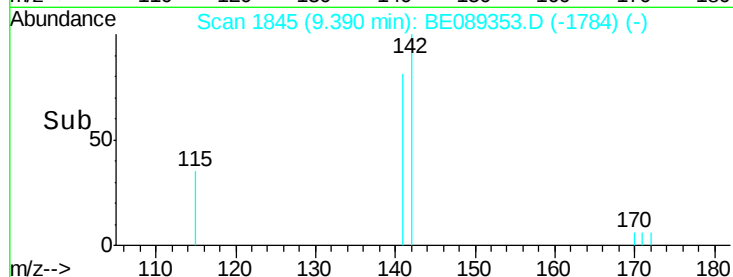
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Tgt Ion:	142	Resp:	942
Ion Ratio	Lower	Upper	
142	100		
141	80.8	66.3	99.5
115	35.3	25.2	37.8

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#6

Acenaphthene-d10

Concen: 5.00 ng

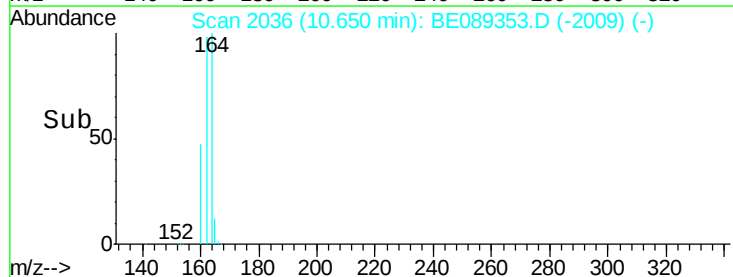
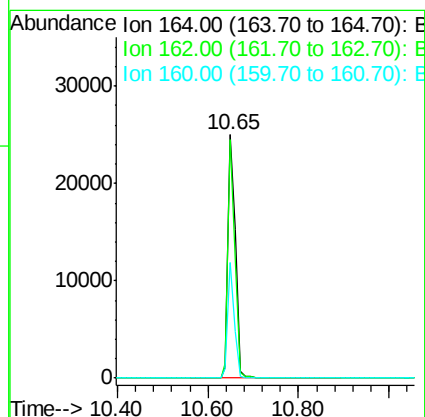
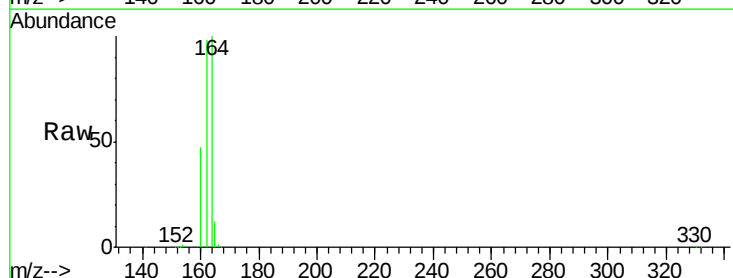
RT: 10.65 min Scan# 2036

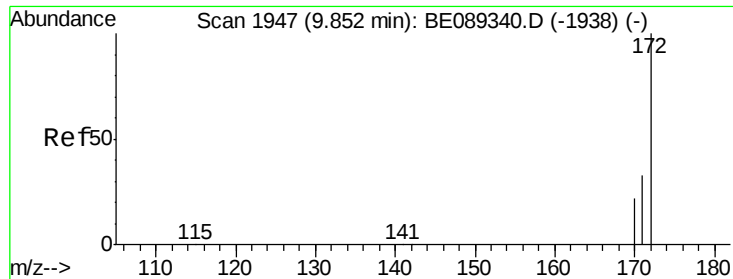
Delta R.T. -0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion:	164	Resp:	27950
Ion Ratio	Lower	Upper	
164	100		
162	97.9	77.4	116.2
160	47.4	38.2	57.4





#7

2-Fluorobiphenyl

Concen: 6.07 ng

RT: 9.85 min Scan# 1947

Delta R.T. 0.00 min

Lab File: BE089353.D

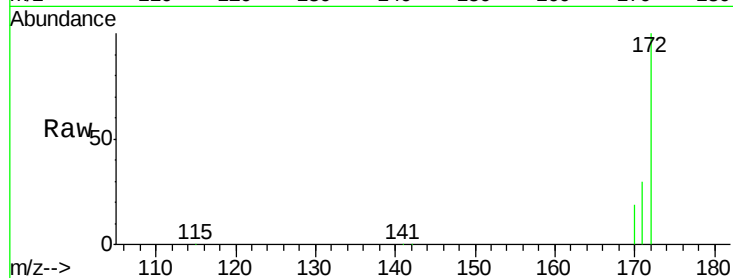
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

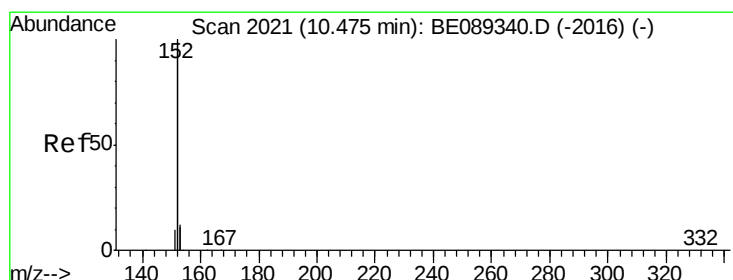
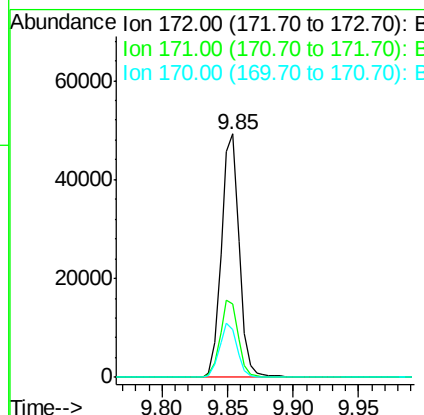
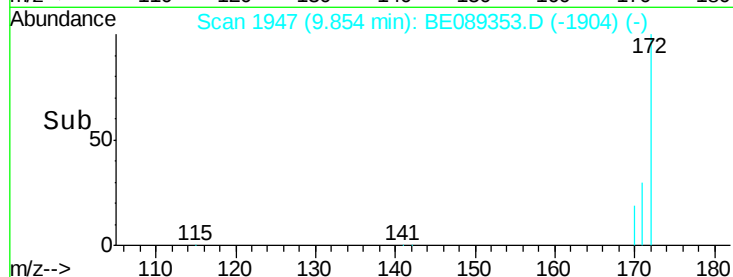
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Tgt Ion:	172	Resp:	46278
Ion Ratio	Lower	Upper	
172	100		
171	30.2	26.4	39.6
170	19.4	18.0	27.0

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#8

Acenaphthylene

Concen: 0.12 ng

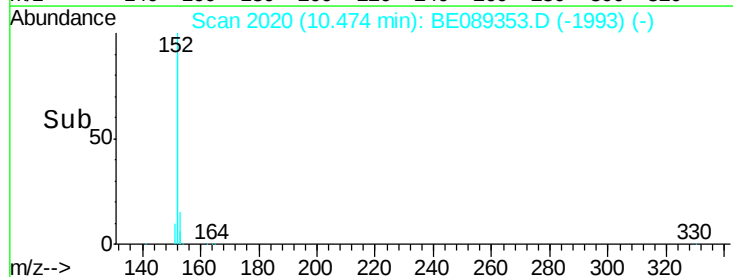
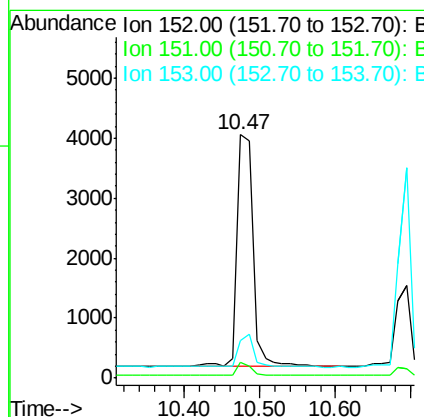
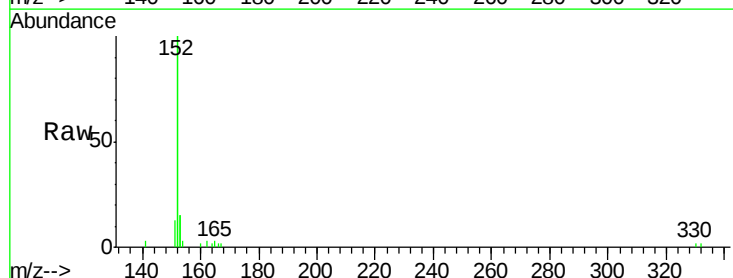
RT: 10.47 min Scan# 2020

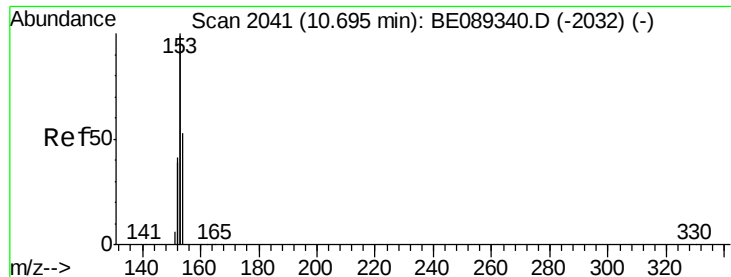
Delta R.T. -0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion:	152	Resp:	5629
Ion Ratio	Lower	Upper	
152	100		
151	6.4	4.1	6.1#
153	15.4	9.8	14.6#





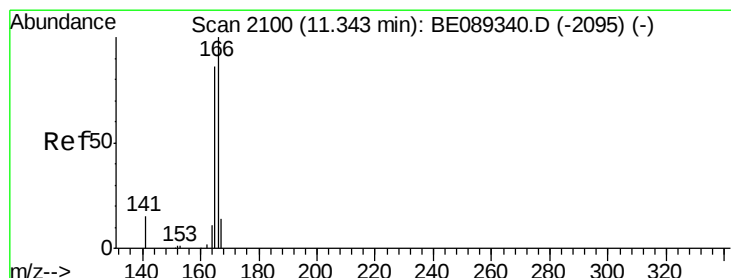
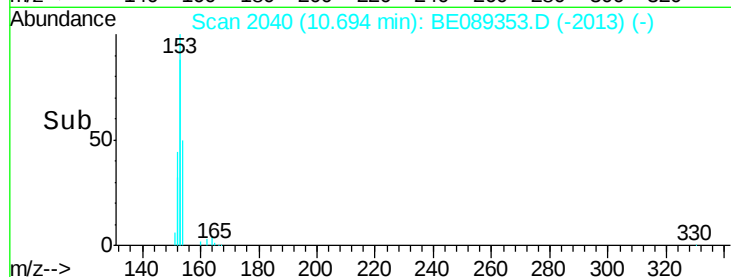
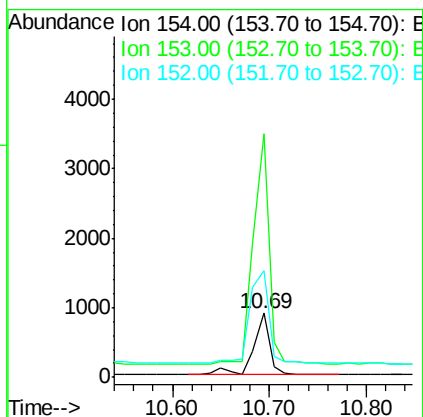
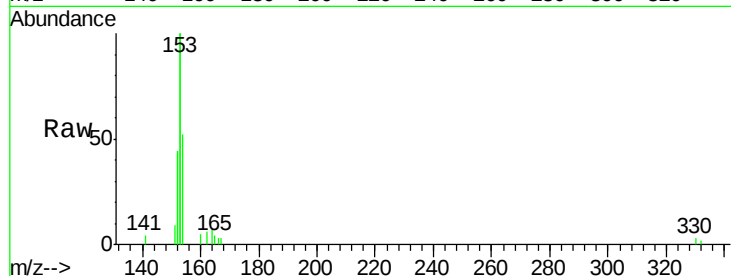
#9
Acenaphthene
Concen: 0.13 ng
RT: 10.69 min Scan# 2040
Delta R.T. -0.00 min
Lab File: BE089353.D
Acq: 8 Jan 2015 8:02

Instrument :
BNA_E
ClientSampleId :
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Tgt Ion:	154	Resp:	974
Ion Ratio	Lower	Upper	
154	100		
153	381.1	300.6	450.8
152	167.4	123.3	184.9

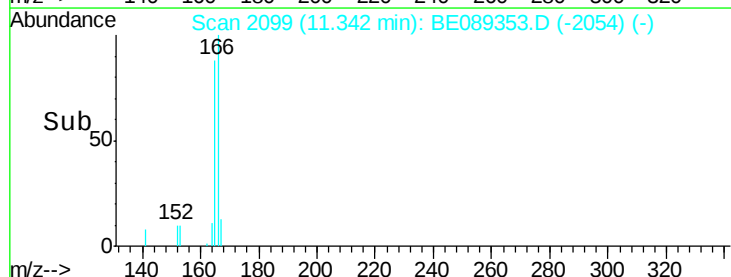
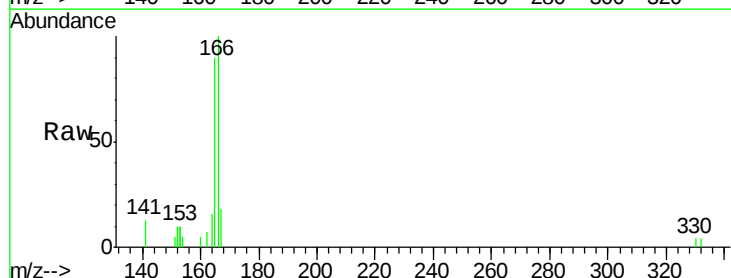
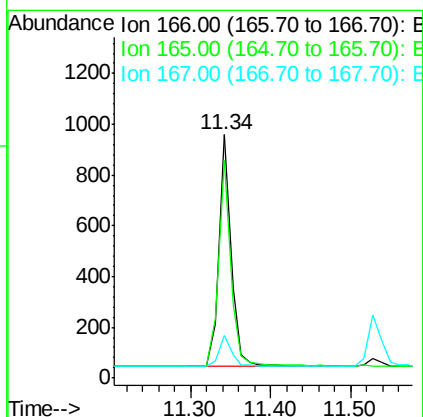
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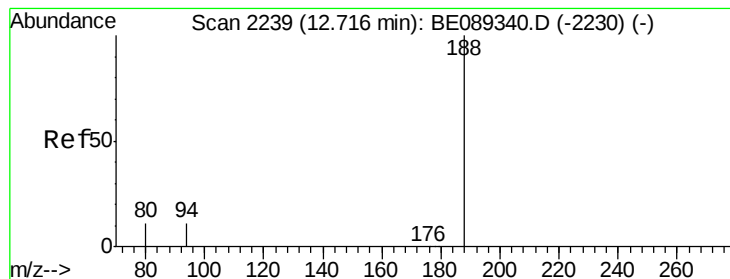
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#10
Fluorene
Concen: 0.12 ng
RT: 11.34 min Scan# 2099
Delta R.T. -0.00 min
Lab File: BE089353.D
Acq: 8 Jan 2015 8:02

Tgt Ion:	166	Resp:	987
Ion Ratio	Lower	Upper	
166	100		
165	89.1	72.1	108.1
167	14.1	11.0	16.4





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.72 min Scan# 2239

Delta R.T. 0.00 min

Lab File: BE089353.D

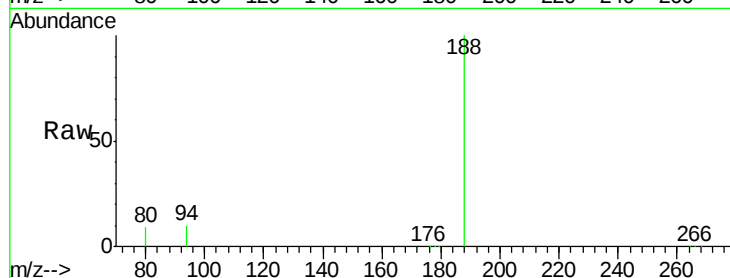
Acq: 8 Jan 2015 8:02

Instrument :

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ClientSampleId :

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Tgt Ion:188 Resp: 45721

Ion Ratio Lower Upper

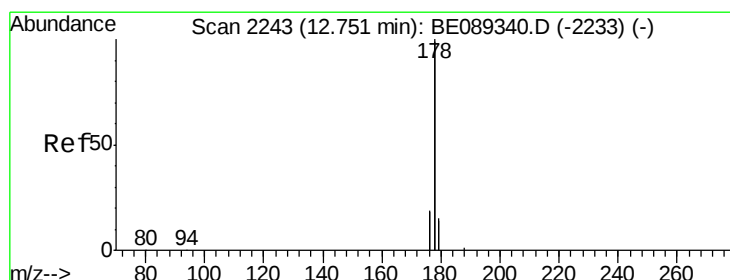
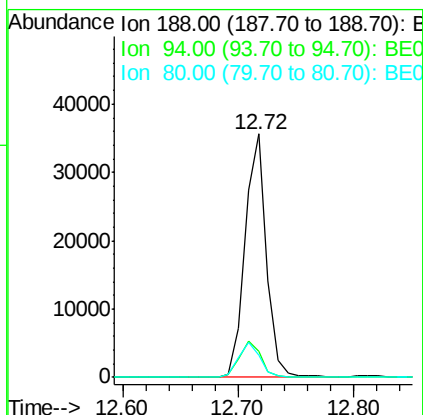
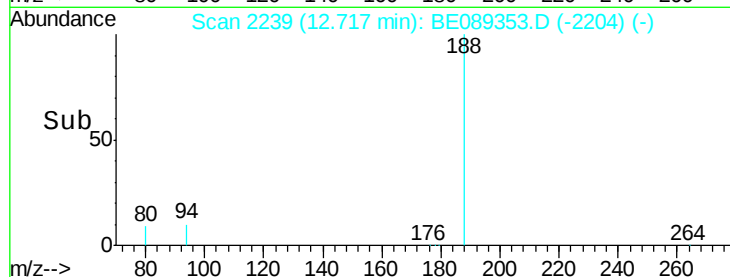
188 100

94 10.5 11.0 12.2#

80 9.2 10.1 11.1#

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#12

Phenanthrene

Concen: 0.12 ng

RT: 12.75 min Scan# 2243

Delta R.T. 0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

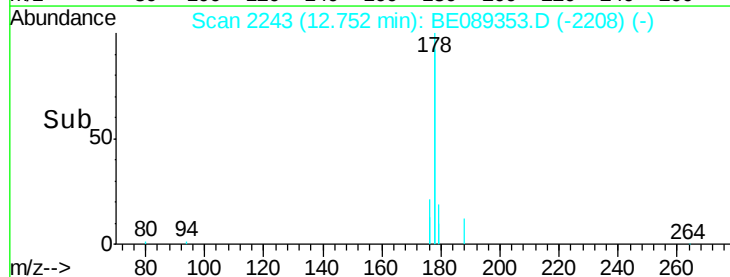
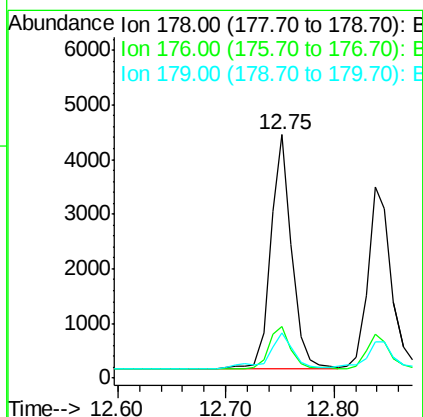
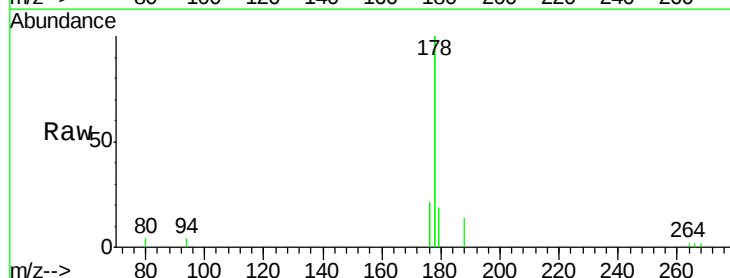
Tgt Ion:178 Resp: 5738

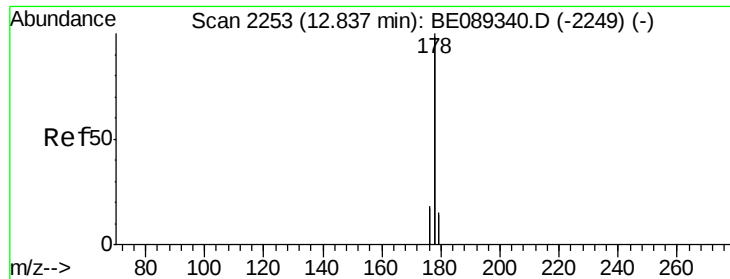
Ion Ratio Lower Upper

178 100

176 21.1 15.1 22.7

179 18.5 12.2 18.2#





#13

Anthracene

Concen: 0.11 ng

RT: 12.84 min Scan# 2253

Delta R.T. 0.00 min

Lab File: BE089353.D

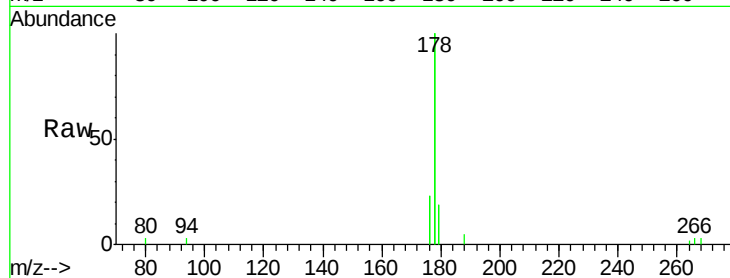
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

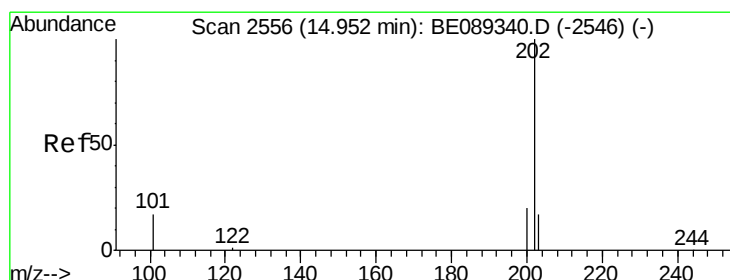
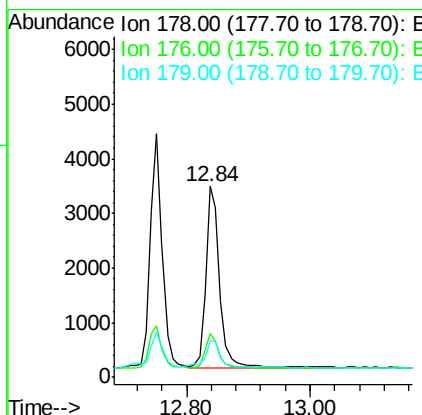
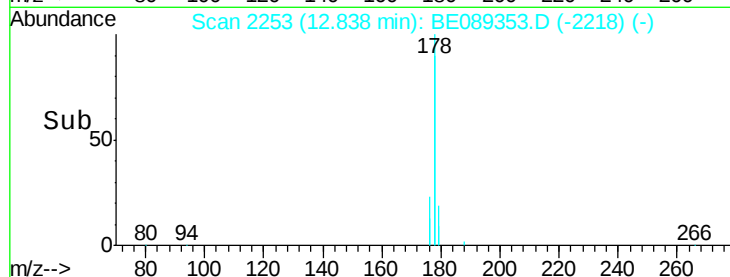
LOQ-SOIL2015-02



Tgt Ion	Ratio	Lower	Upper
178	100		
176	23.0	14.7	22.1#
179	19.1	12.0	18.0#

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#14

Fluoranthene

Concen: 0.10 ng

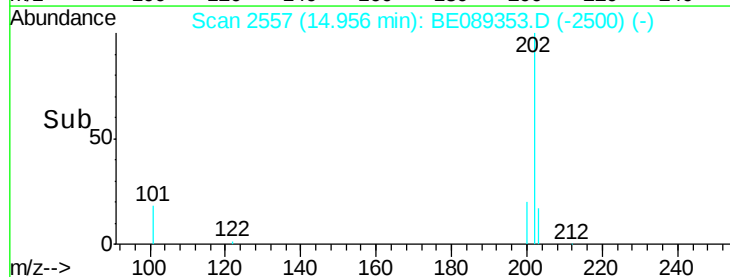
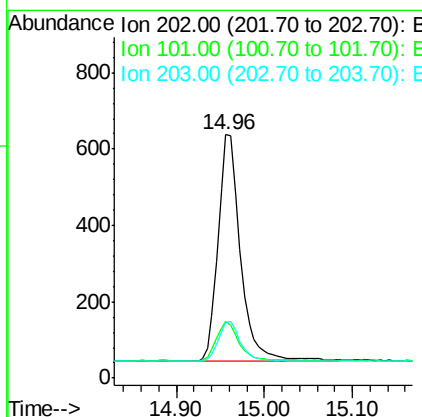
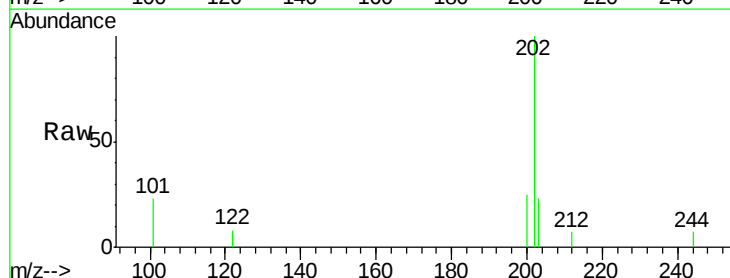
RT: 14.96 min Scan# 2557

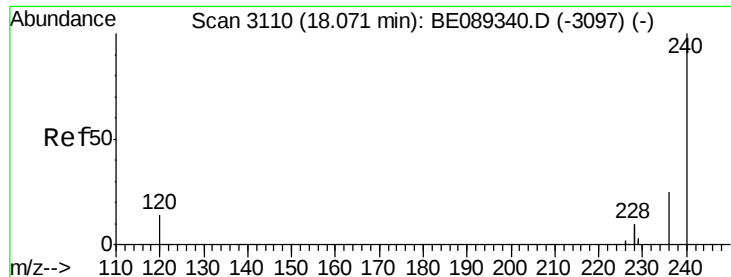
Delta R.T. 0.00 min

Lab File: BE089353.D

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Tgt Ion	Ratio	Lower	Upper
202	100		
101	23.4	0.0	37.9
203	23.0	0.0	37.5





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.06 min Scan# 3109

Delta R.T. -0.01 min

Lab File: BE089353.D

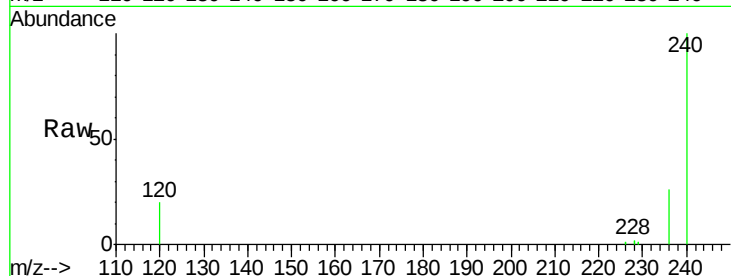
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

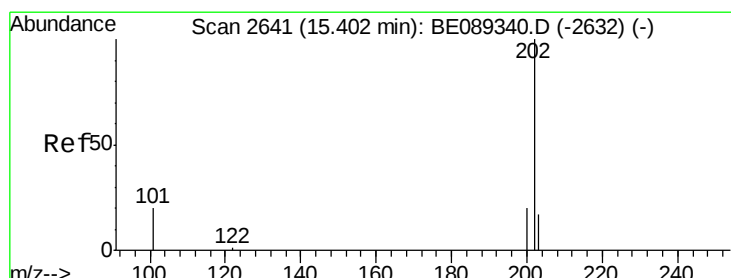
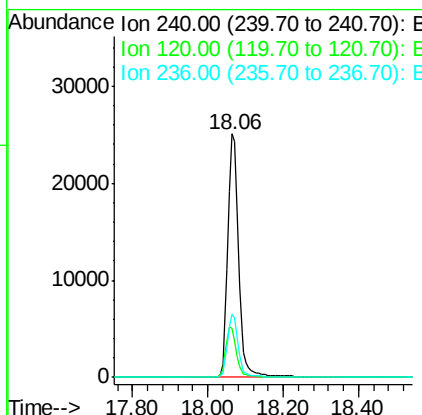
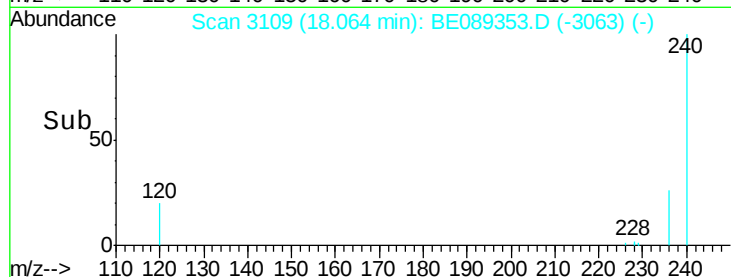
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Tgt Ion:	240	Resp:	48417
Ion Ratio	Lower	Upper	
240	100		
120	20.4	11.8	17.6#
236	25.7	20.0	30.0

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#16

Pyrene

Concen: 0.07 ng

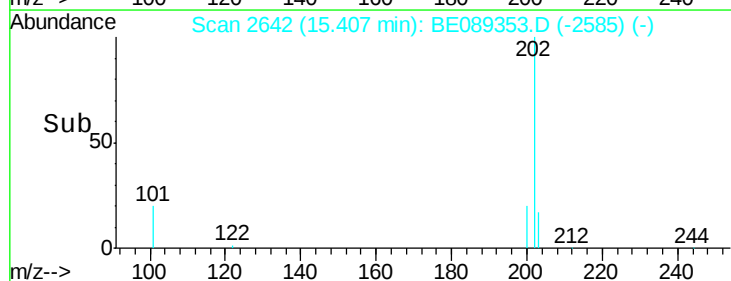
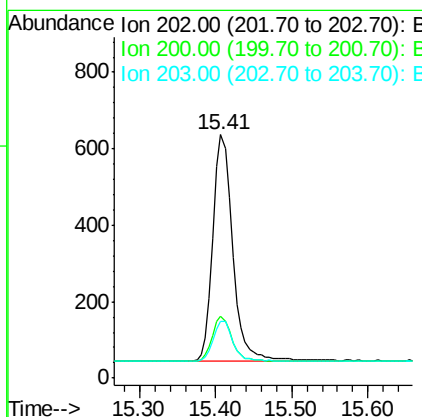
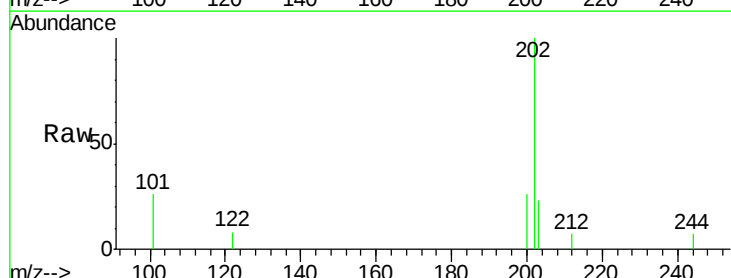
RT: 15.41 min Scan# 2642

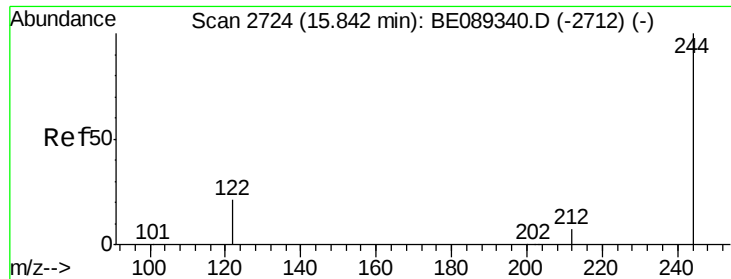
Delta R.T. 0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion:	202	Resp:	1072
Ion Ratio	Lower	Upper	
202	100		
200	25.6	16.8	25.2#
203	23.2	14.0	21.0#





#17

Terphenyl-d14

Concen: 3.88 ng

RT: 15.85 min Scan# 2725

Delta R.T. 0.00 min

Lab File: BE089353.D

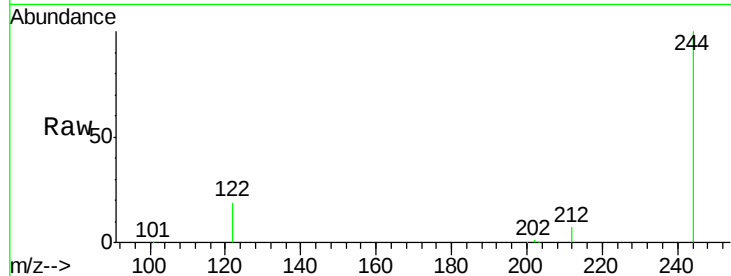
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

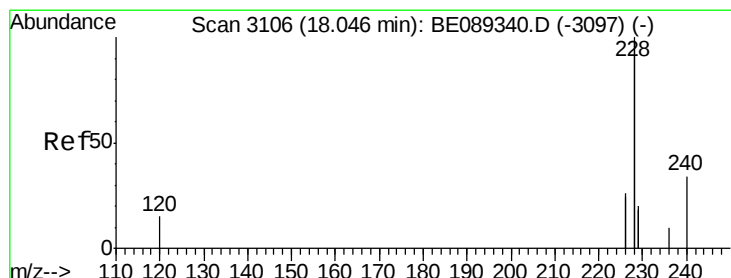
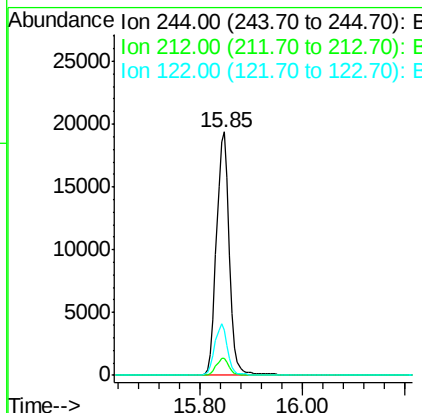
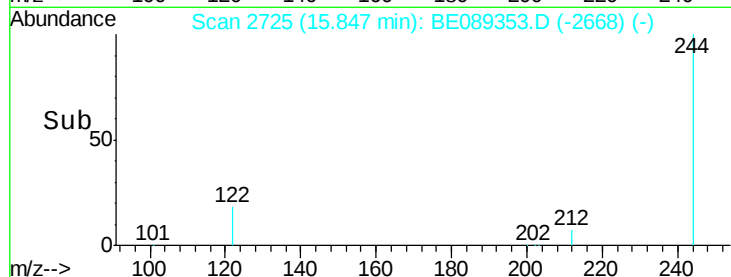
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Tgt Ion:	244	Resp:	33272
Ion Ratio	Lower	Upper	
244	100		
212	6.9	6.3	9.5
122	18.5	17.7	26.5

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#18

Benzo(a)anthracene

Concen: 0.07 ng

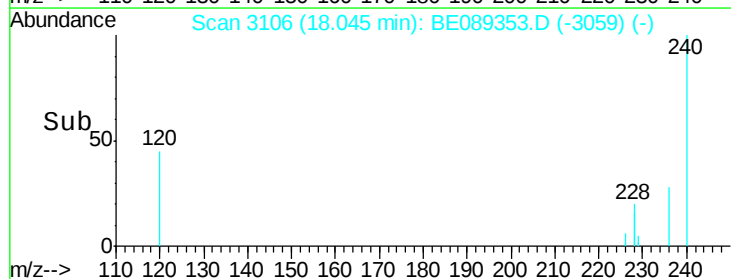
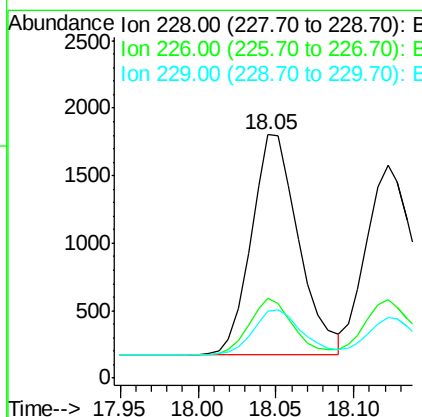
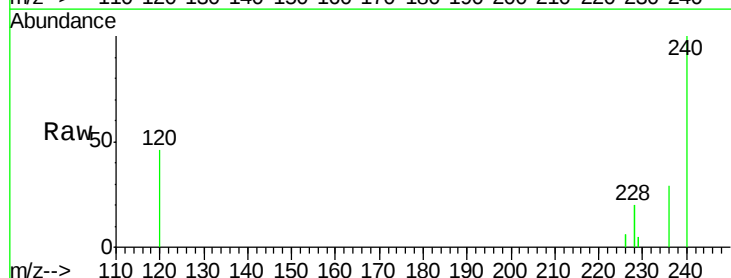
RT: 18.05 min Scan# 3106

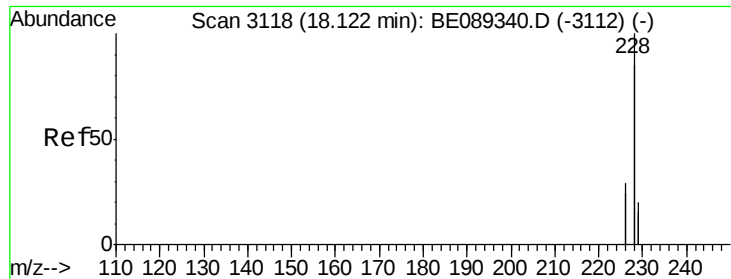
Delta R.T. -0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion:	228	Resp:	3428
Ion Ratio	Lower	Upper	
228	100		
226	32.8	21.0	31.6#
229	27.3	16.0	24.0#





#19

Chrysene

Concen: 0.07 ng

RT: 18.12 min Scan# 3118

Delta R.T. -0.00 min

Lab File: BE089353.D

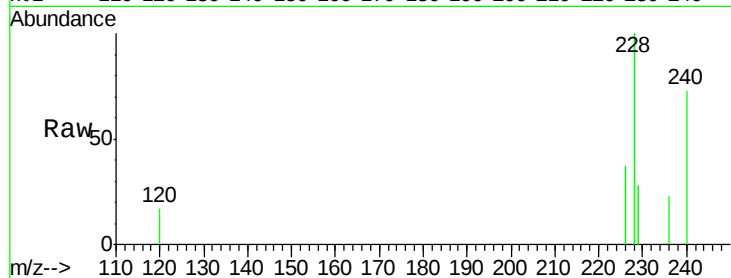
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

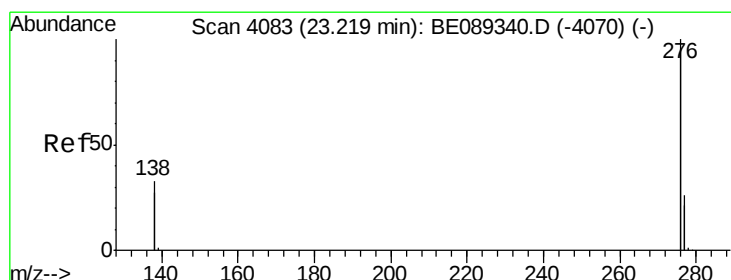
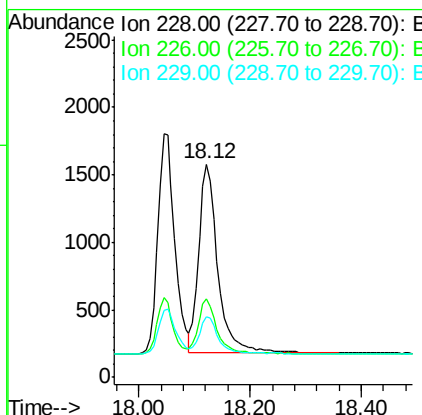
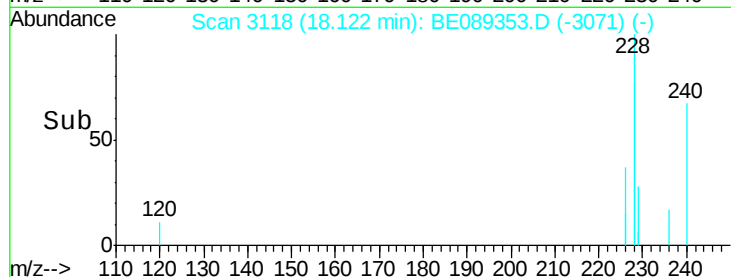
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Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.9	23.5	35.3#
229	28.2	16.1	24.1#

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#20

Indeno(1,2,3-cd)pyrene

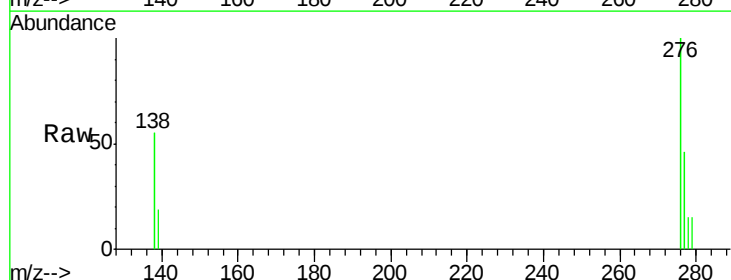
Concen: 0.06 ng m

RT: 23.24 min Scan# 4086

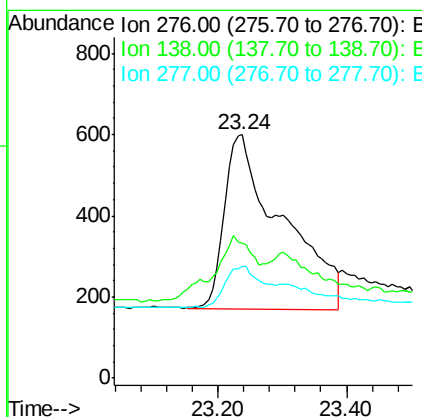
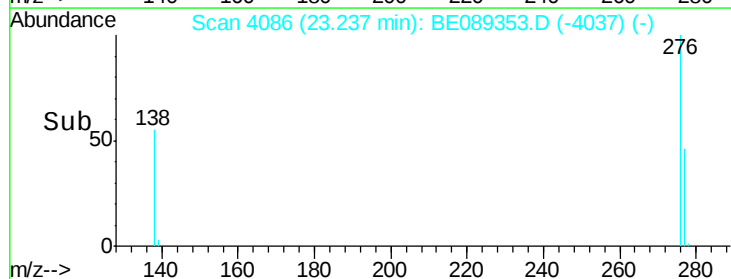
Delta R.T. 0.02 min

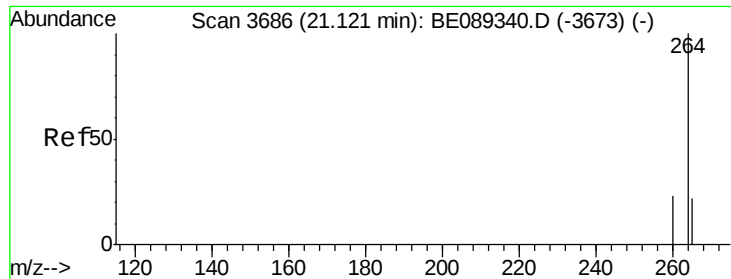
Lab File: BE089353.D

Acq: 8 Jan 2015 8:02



Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.9	23.8	35.8
277	15.5	18.2	27.4#





#21

Perylene-d12

Concen: 5.00 ng

RT: 21.12 min Scan# 3686

Delta R.T. -0.00 min

Lab File: BE089353.D

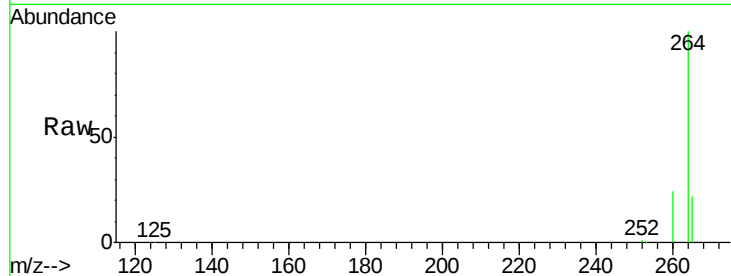
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

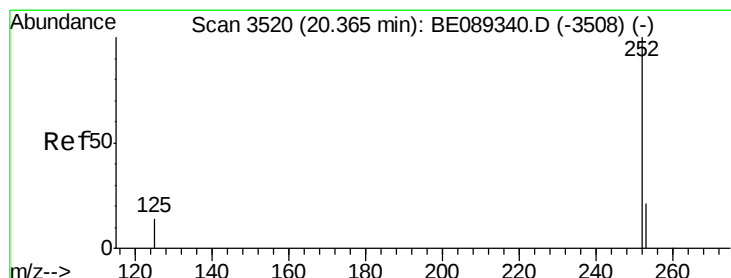
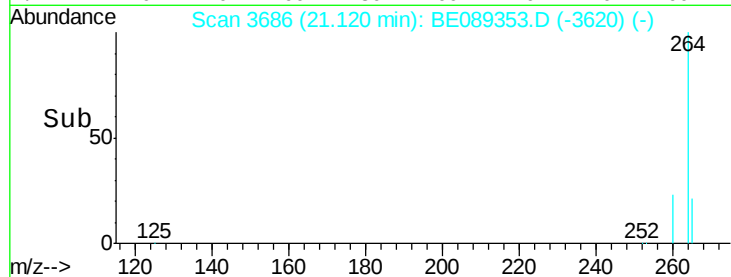
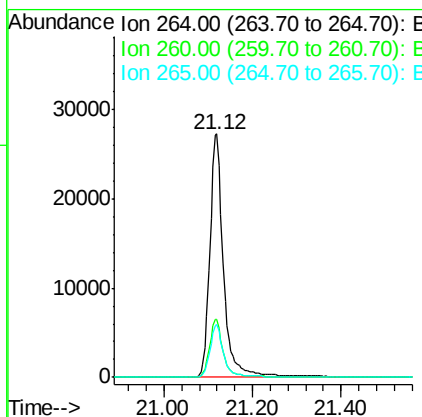
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Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.5	17.4	26.2

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#22

Benzo(b)fluoranthene

Concen: 0.05 ng

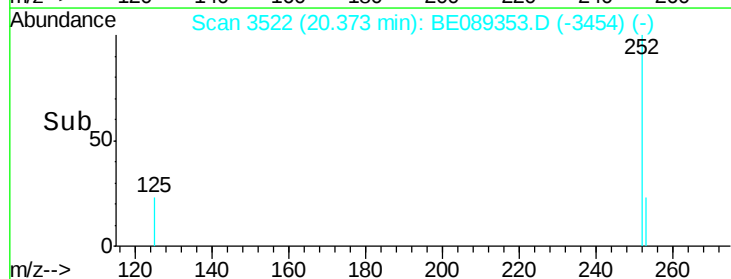
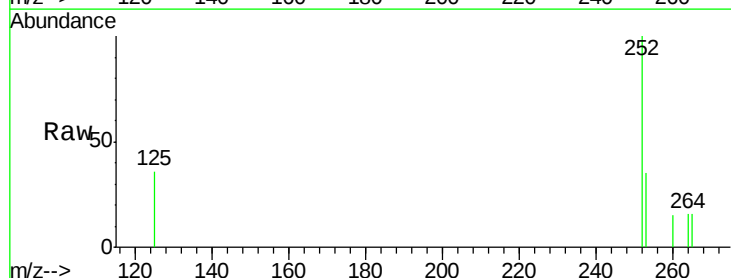
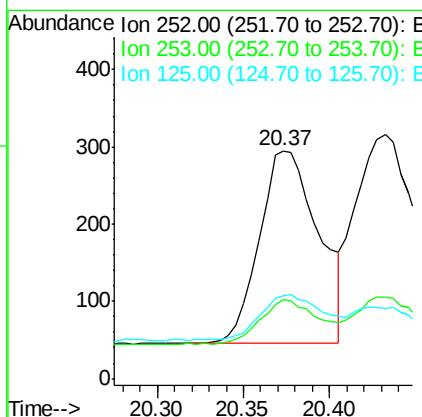
RT: 20.37 min Scan# 3522

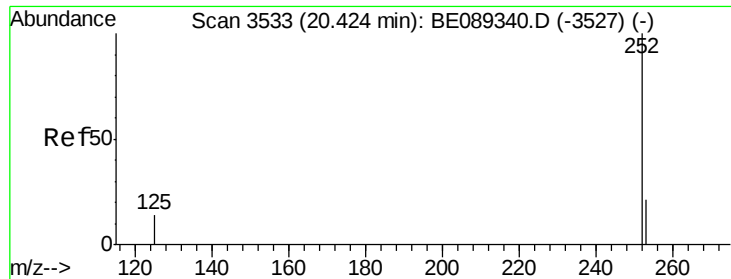
Delta R.T. 0.01 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.6	17.8	26.6#
125	36.3	12.6	18.8#





#23

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 20.43 min Scan# 3535

Delta R.T. 0.01 min

Lab File: BE089353.D

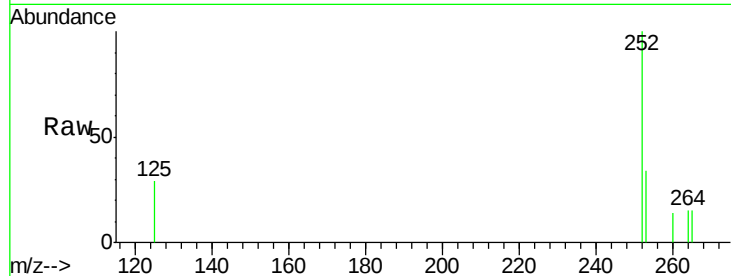
Acq: 8 Jan 2015 8:02

Instrument :

BNA_E

ClientSampleId :

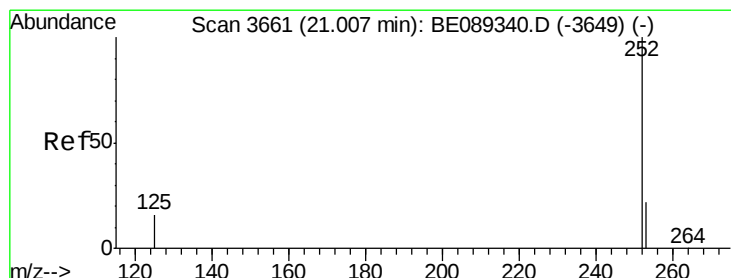
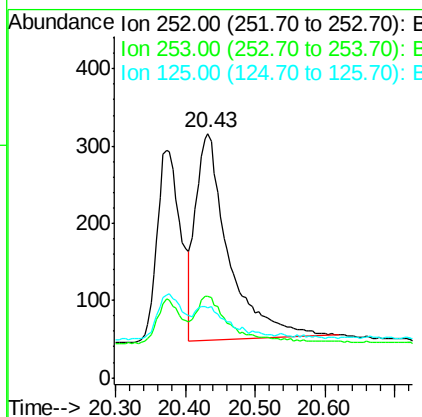
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Tgt Ion:	252	Resp:	874
Ion Ratio	Lower	Upper	
252	100		
253	33.5	18.0	27.0#
125	28.8	12.4	18.6#

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#24

Benzo(a)pyrene

Concen: 0.05 ng

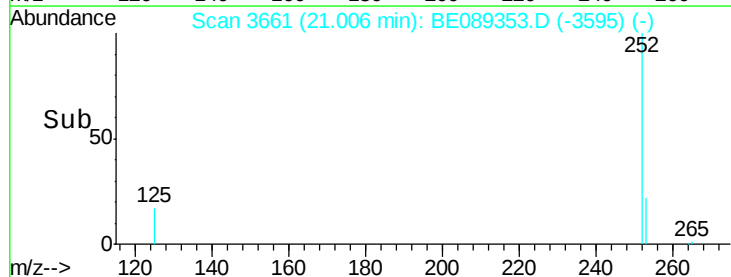
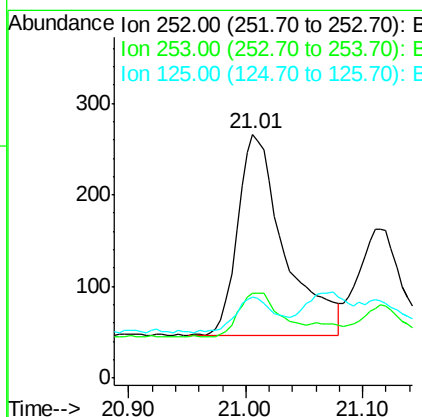
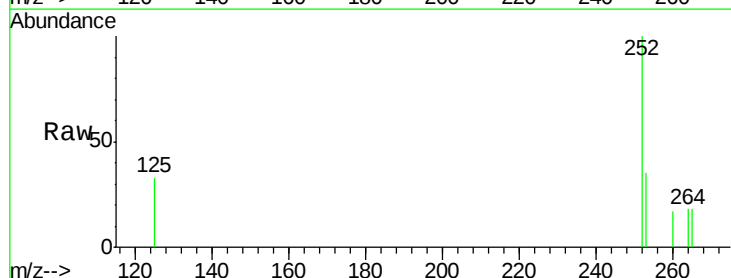
RT: 21.01 min Scan# 3661

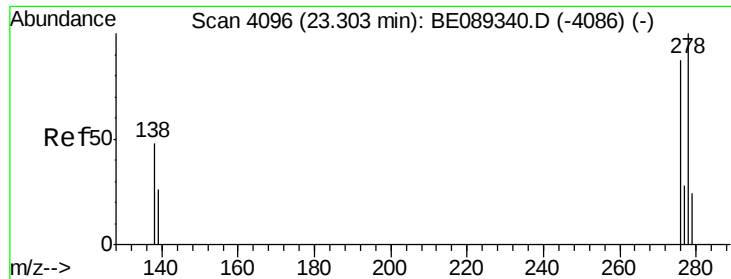
Delta R.T. -0.00 min

Lab File: BE089353.D

Acq: 8 Jan 2015 8:02

Tgt Ion:	252	Resp:	606
Ion Ratio	Lower	Upper	
252	100		
253	35.0	18.3	27.5#
125	33.1	13.8	20.8#





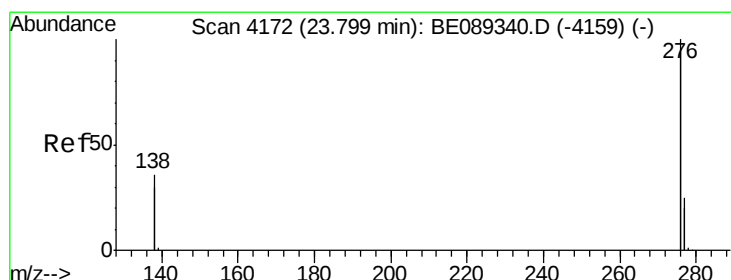
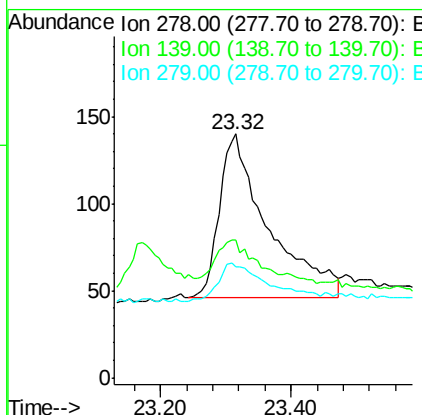
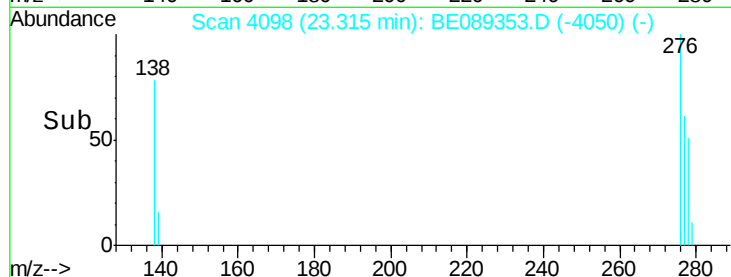
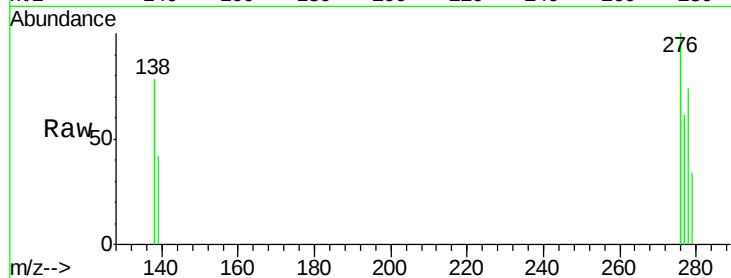
#25
Dibenzo(a,h)anthracene
Concen: 0.04 ng
RT: 23.32 min Scan# 4098
Delta R.T. 0.01 min
Lab File: BE089353.D
Acq: 8 Jan 2015 8:02

Instrument :
BNA_E
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
278	100		
139	56.4	22.9	34.3#
279	45.7	20.8	31.2#

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#26
Benzo(g,h,i)perylene
Concen: 0.05 ng
RT: 23.82 min Scan# 4175
Delta R.T. 0.02 min
Lab File: BE089353.D
Acq: 8 Jan 2015 8:02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	43.9	20.0	30.0#
138	54.4	28.5	42.7#

