

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088465.D
 Acq On : 1 Nov 2014 23:09
 Operator : TP/JJ
 Sample : F4368-08RE
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:07:54 AM

Quant Time: Nov 02 05:13:46 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	31439	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	115739	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	54538	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	113636	5.00	ng	0.00
16) Chrysene-d12	18.33	240	68436	5.00	ng	0.01
22) Perylene-d12	21.40	264	67002	5.00	ng	0.02
System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	484722	57.11	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	549038	35.72	ng	0.00
18) Terphenyl-d14	16.10	244	412466	32.81	ng	0.03
Target Compounds						Qvalue
5) Naphthalene	8.68	128	2275	0.09	ng	# 95
6) 2-Methylnaphthalene	9.53	142	645	0.04	ng	# 94
9) Acenaphthylene	10.62	152	32977	0.37	ng	# 94
10) Acenaphthene	10.83	154	3558	0.27	ng	# 97
11) Fluorene	11.49	166	3046	0.22	ng	# 95
13) Phenanthrene	12.95	178	258061	2.50	ng	99
14) Anthracene	13.03	178	58619m	0.70	ng	
15) Fluoranthene	15.19	202	74258	4.43	ng	99
17) Pyrene	15.65	202	61402	2.75	ng	96
19) Benzo(a)anthracene	18.31	228	135916	2.11	ng	99
20) Chrysene	18.38	228	142751	2.26	ng	95
21) Indeno(1,2,3-cd)pyrene	23.58	276	95987m	1.63	ng	
23) Benzo(b)fluoranthene	20.64	252	50561	3.44	ng	98
24) Benzo(k)fluoranthene	20.69	252	17552	1.08	ng	96
25) Benzo(a)pyrene	21.27	252	31651	2.24	ng	98
26) Dibenzo(a,h)anthracene	23.66	278	5096	0.39	ng	# 77
27) Benzo(g,h,i)perylene	24.21	276	87312	1.45	ng	98

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

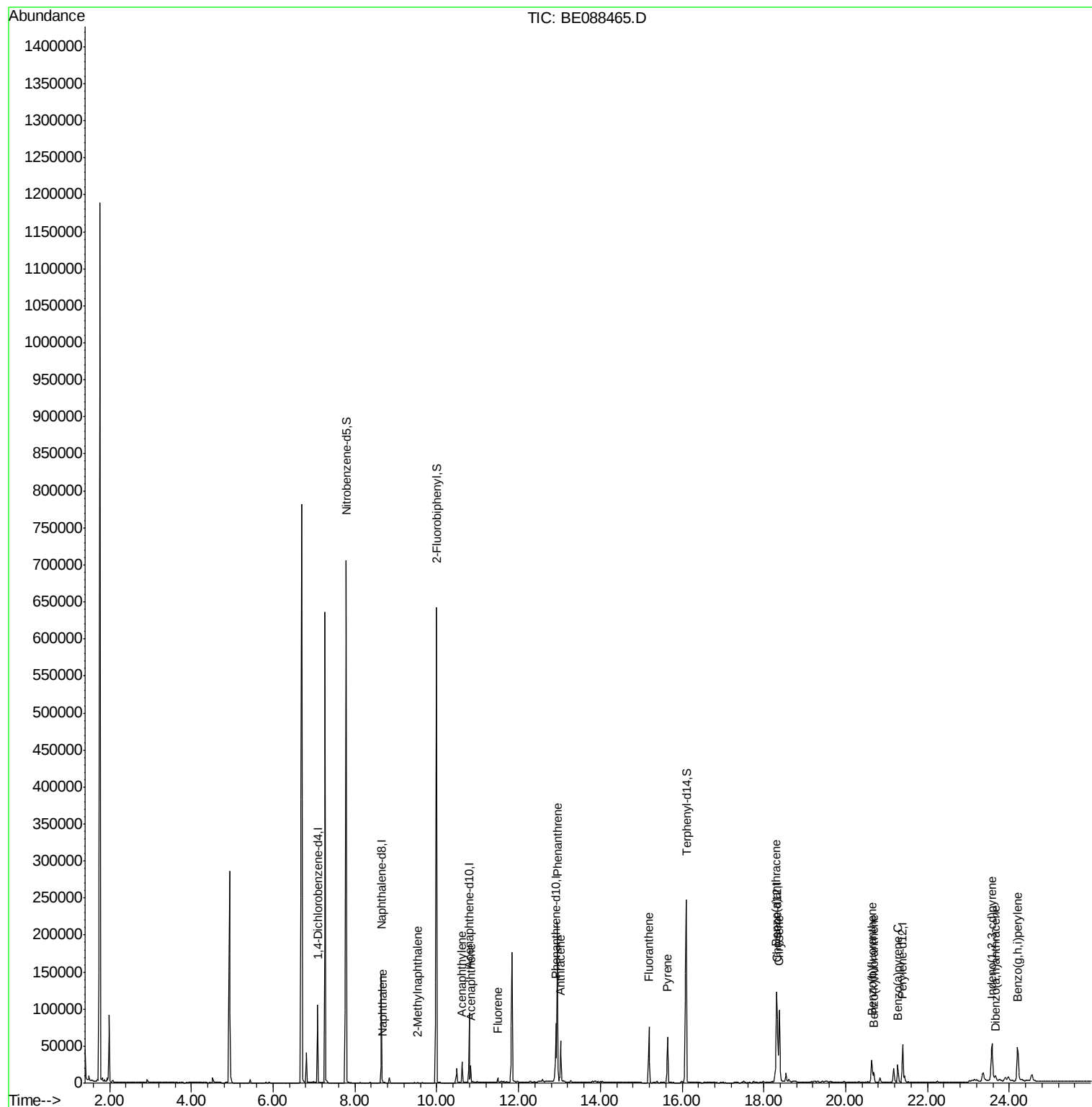
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
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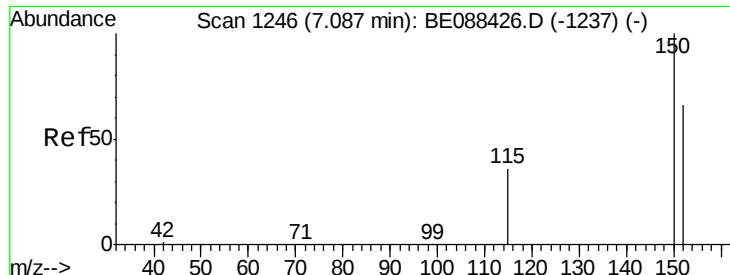
Instrument :
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QLast Update : Sat Nov 01 00:42:07 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088465.D

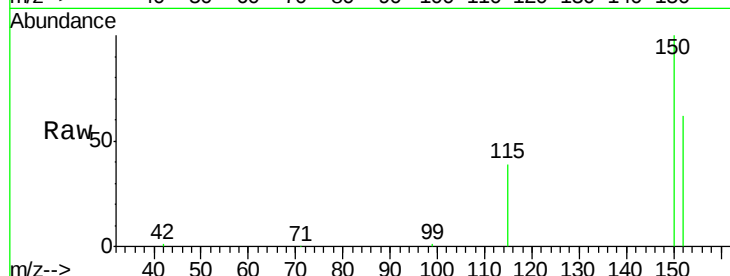
Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 31439

Ion Ratio Lower Upper

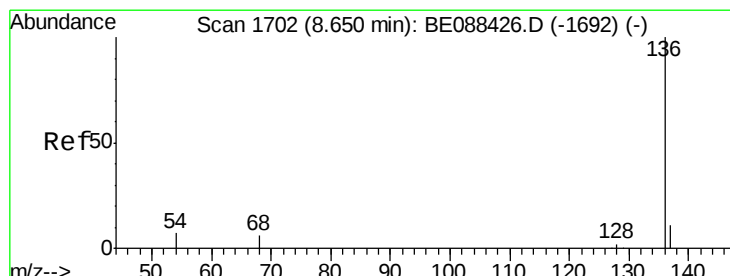
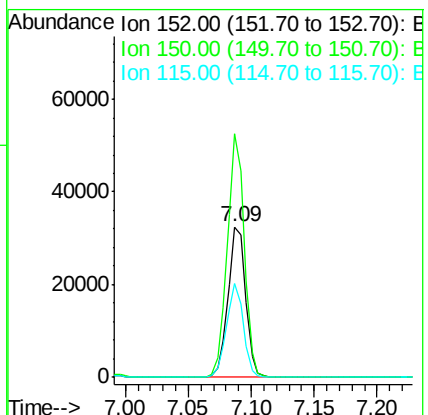
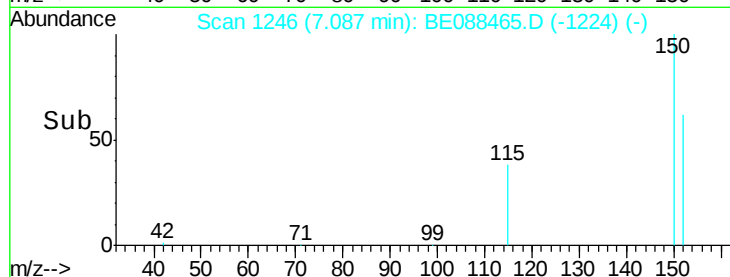
152 100

150 162.1 121.8 182.8

115 62.5 43.9 65.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

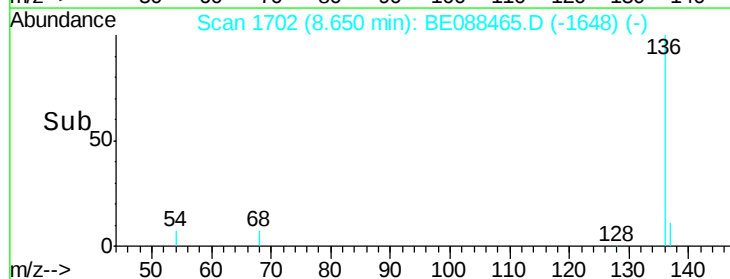
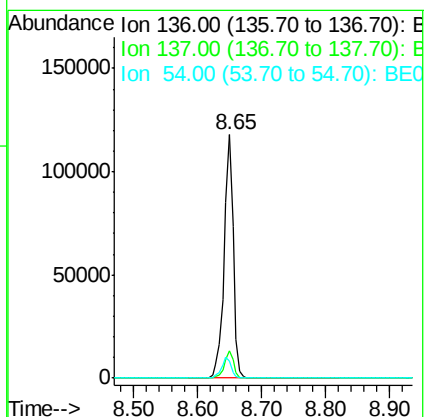
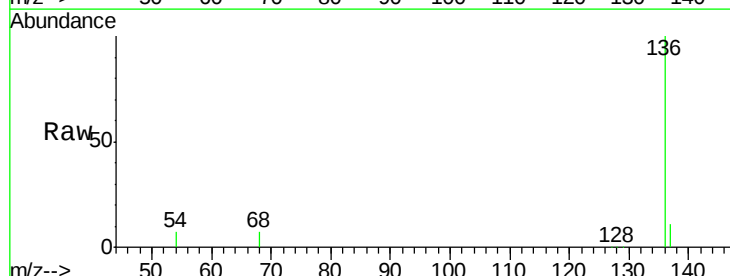
Tgt Ion:136 Resp: 115739

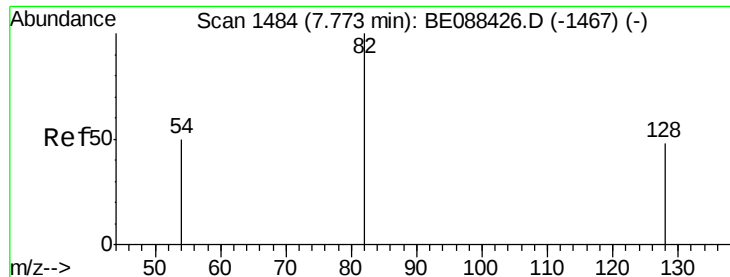
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 7.0 5.3 7.9





#4

Nitrobenzene-d5

Concen: 57.11 ng

RT: 7.79 min Scan# 1491

Delta R.T. 0.02 min

Lab File: BE088465.D

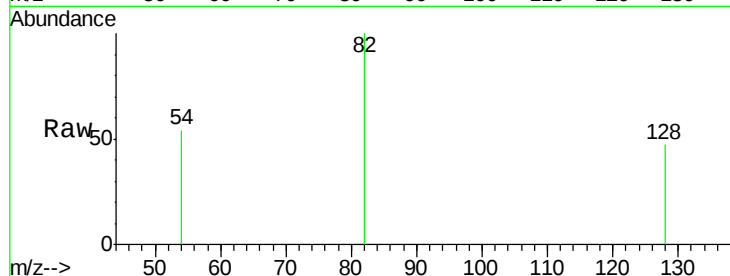
Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE



Tgt Ion: 82 Resp: 484722

Ion Ratio Lower Upper

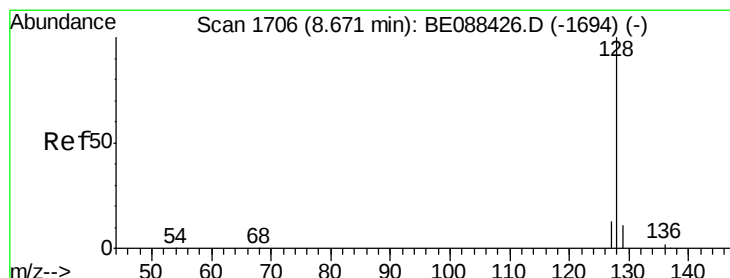
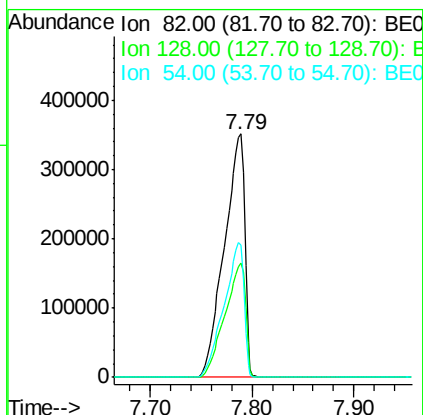
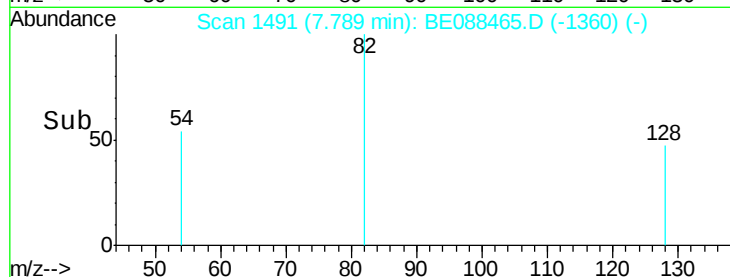
82 100

128 46.9 38.4 57.6

54 54.1 40.2 60.2

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#5

Naphthalene

Concen: 0.09 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

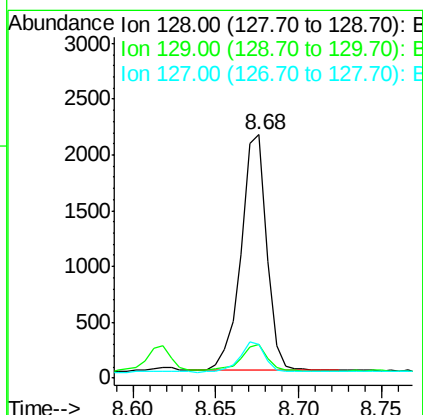
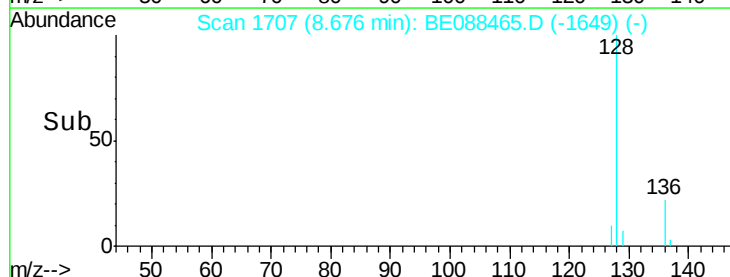
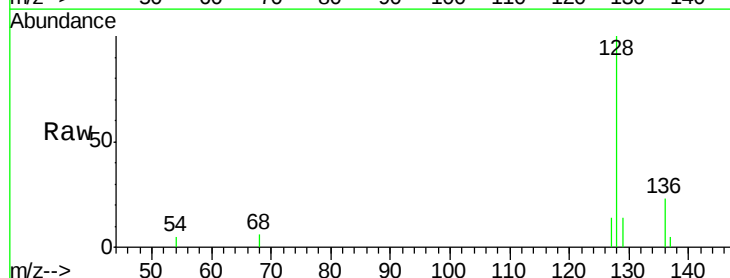
Tgt Ion: 128 Resp: 2275

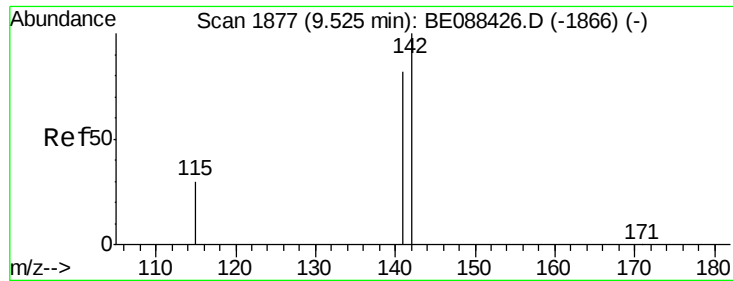
Ion Ratio Lower Upper

128 100

129 13.7 8.6 12.8#

127 13.7 10.1 15.1





#6

2-Methylnaphthalene

Concen: 0.04 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.00 min

Lab File: BE088465.D

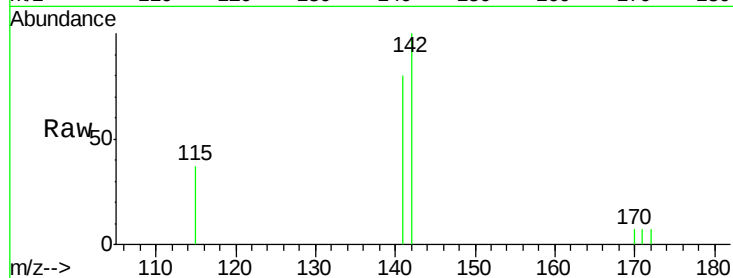
Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

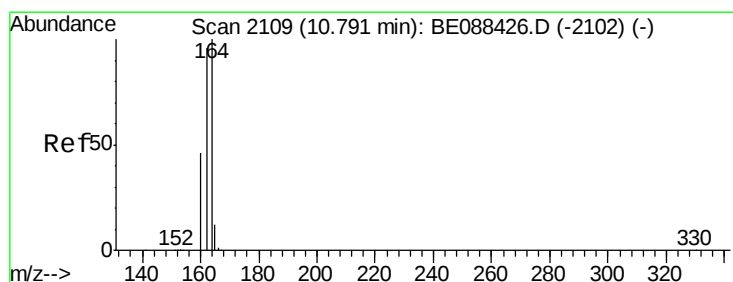
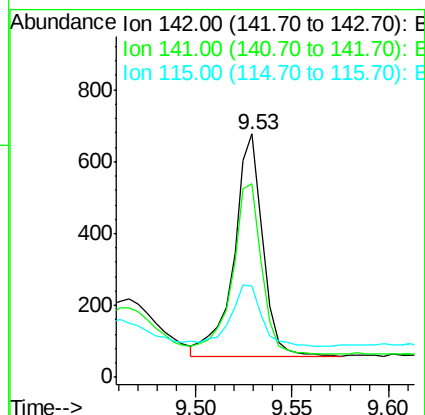
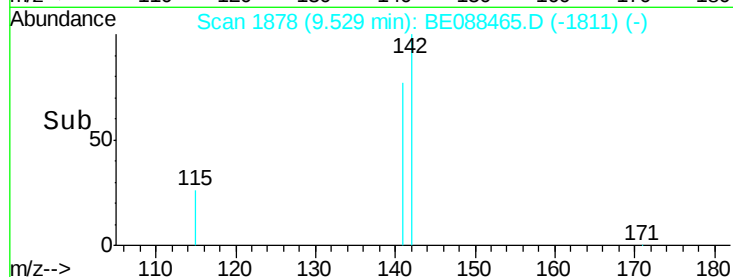
YS19-SB40-1014RE



Tgt Ion:	142	Resp:	645
Ion Ratio	Lower	Upper	
142	100		
141	79.6	65.8	98.8
115	37.4	24.2	36.4#

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#7

Acenaphthene-d10

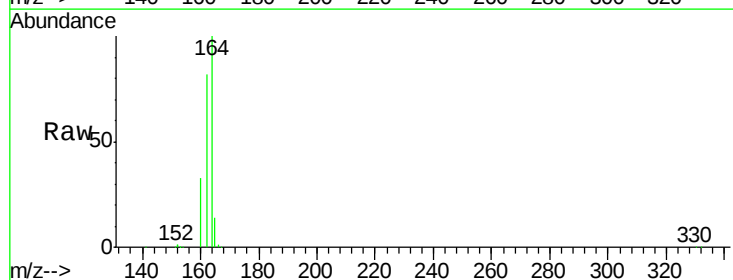
Concen: 5.00 ng

RT: 10.80 min Scan# 2110

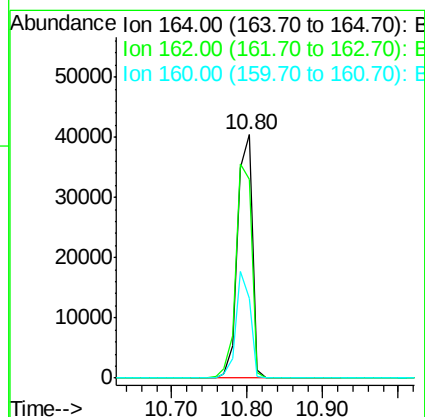
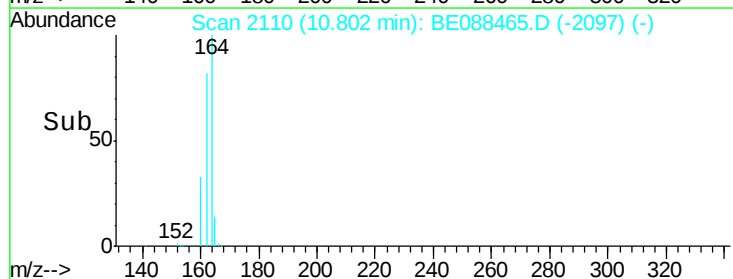
Delta R.T. 0.01 min

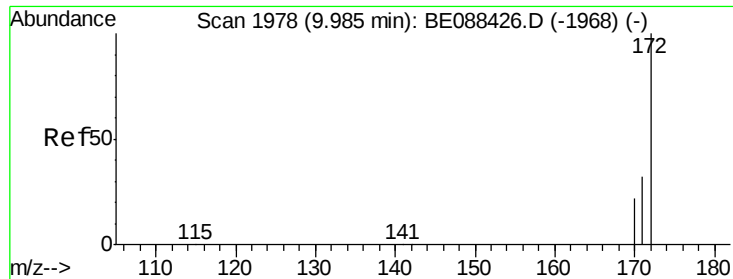
Lab File: BE088465.D

Acq: 1 Nov 2014 23:09



Tgt Ion:	164	Resp:	54538
Ion Ratio	Lower	Upper	
164	100		
162	81.9	77.0	115.4
160	32.9	36.8	55.2#





#8

2-Fluorobiphenyl

Concen: 35.72 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

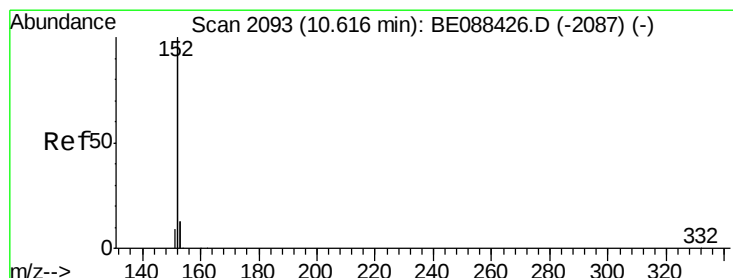
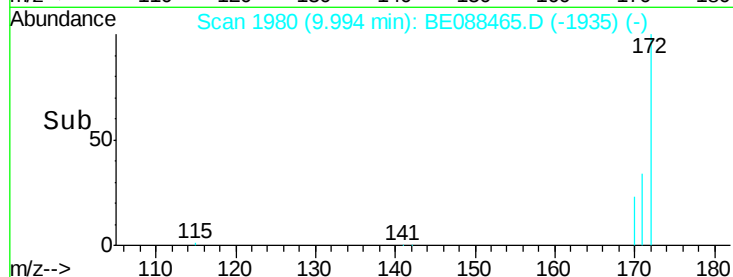
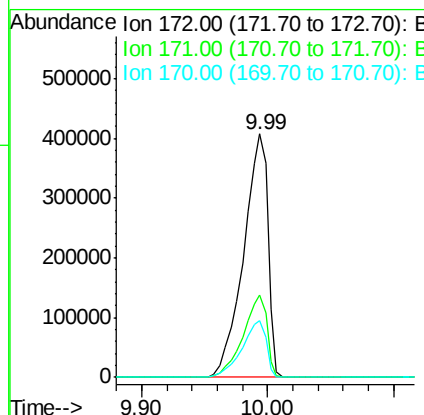
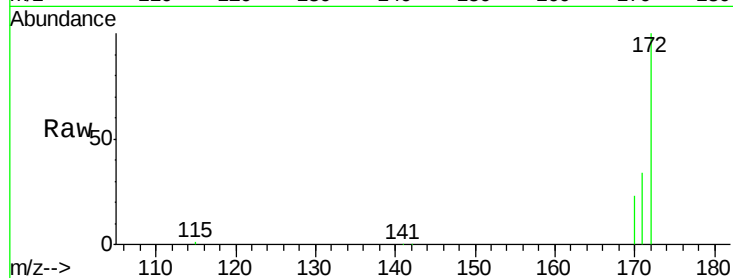
ClientSampleId :

YS19-SB40-1014RE

Tgt Ion:	172	Resp:	549038
Ion Ratio	Lower	Upper	
172	100		
171	33.7	26.0	39.0
170	23.3	17.6	26.4

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#9

Acenaphthylene

Concen: 0.37 ng

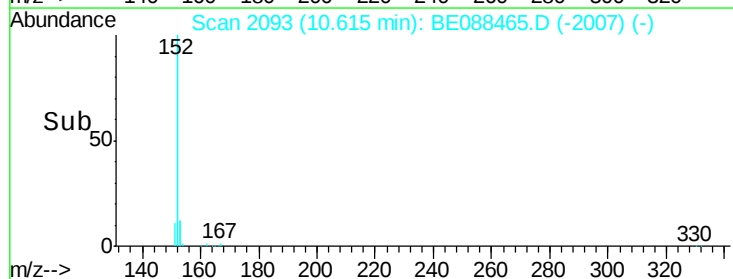
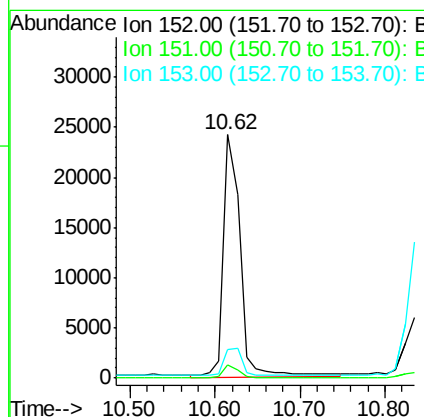
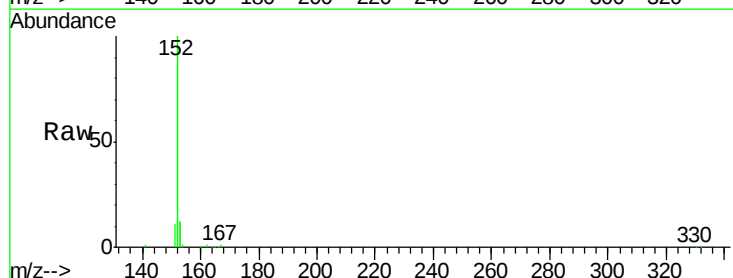
RT: 10.62 min Scan# 2093

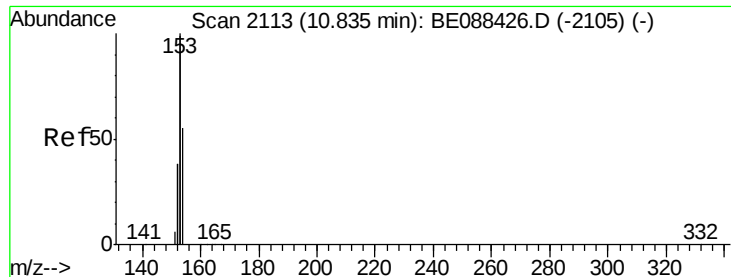
Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Tgt Ion:	152	Resp:	32977
Ion Ratio	Lower	Upper	
152	100		
151	4.4	4.4	6.6
153	15.8	10.5	15.7#





#10

Acenaphthene

Concen: 0.27 ng

RT: 10.83 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088465.D

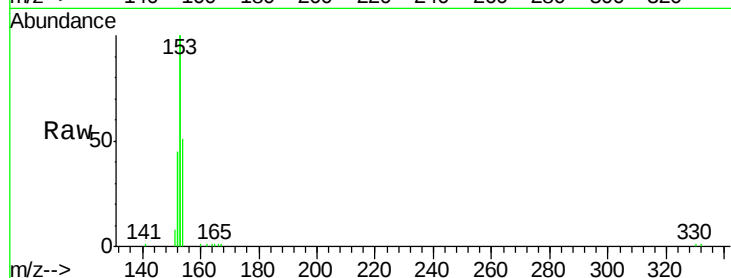
Acq: 1 Nov 2014 23:09

Instrument :

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ClientSampleId :

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Tgt Ion:154 Resp: 3558

Ion Ratio Lower Upper

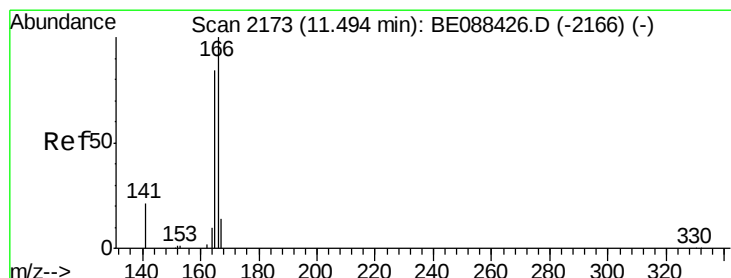
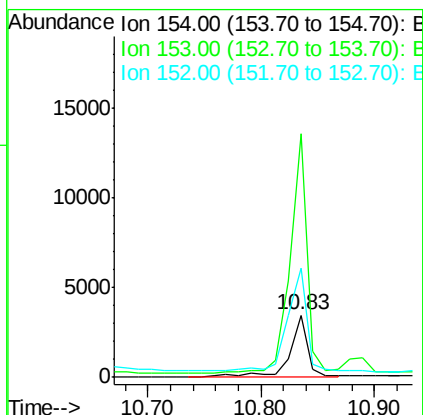
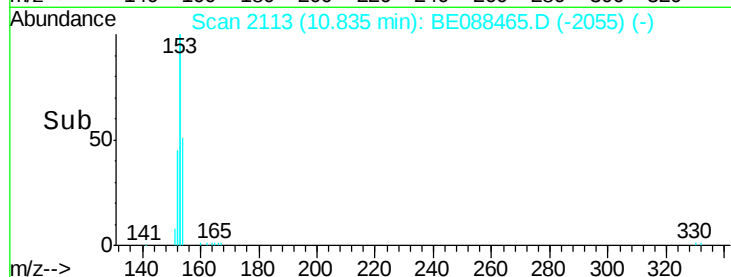
154 100

153 408.6 324.3 486.5

152 204.5 154.9 232.3

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#11

Fluorene

Concen: 0.22 ng

RT: 11.49 min Scan# 2173

Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

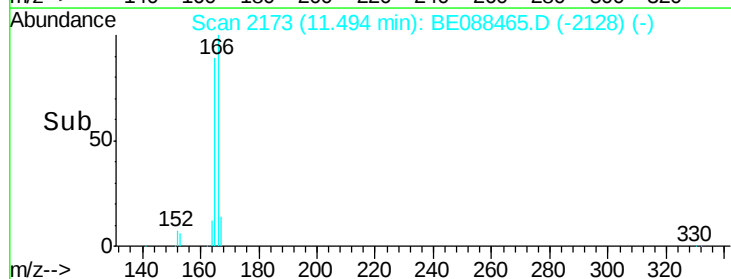
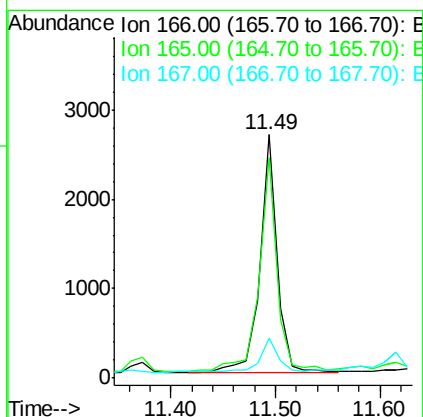
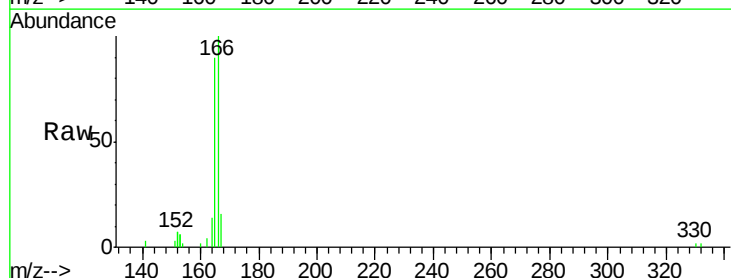
Tgt Ion:166 Resp: 3046

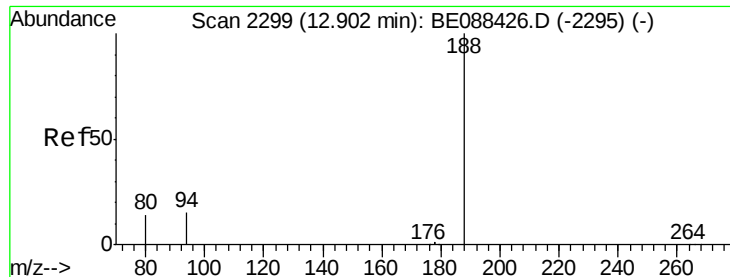
Ion Ratio Lower Upper

166 100

165 93.5 71.3 106.9

167 16.1 10.7 16.1#





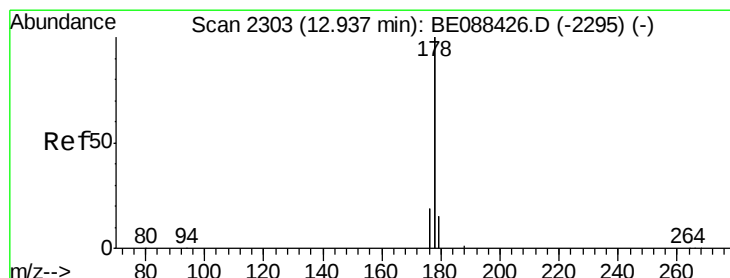
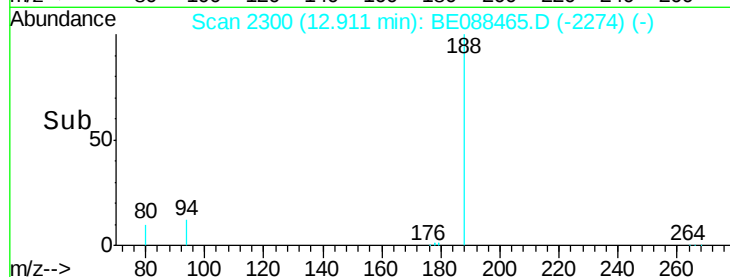
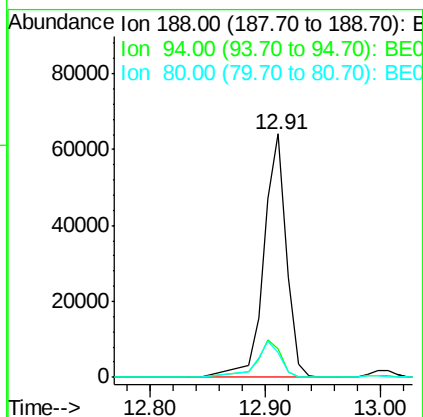
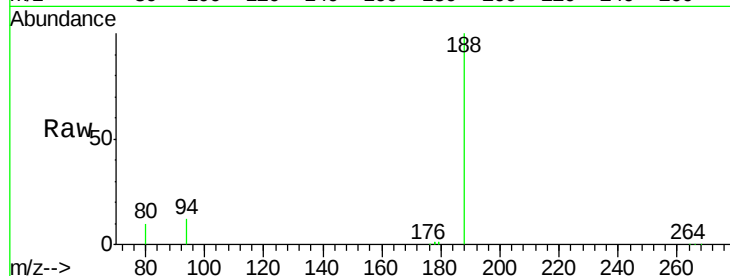
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.91 min Scan# 2300
Delta R.T. 0.01 min
Lab File: BE088465.D
Acq: 1 Nov 2014 23:09

Instrument :
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ClientSampleId :
YS19-SB40-1014RE

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	113636		
94	11.6	11.8	17.8#	
80	10.2	10.9	16.3#	

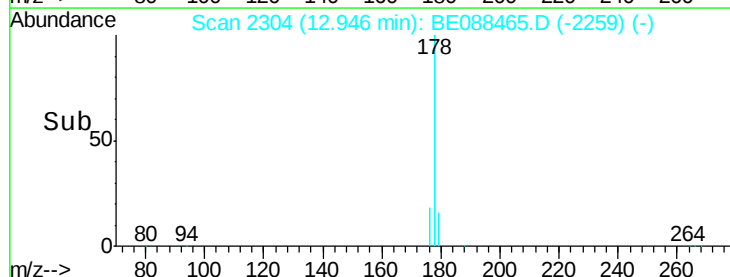
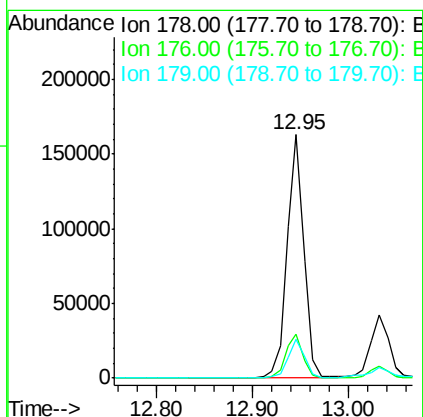
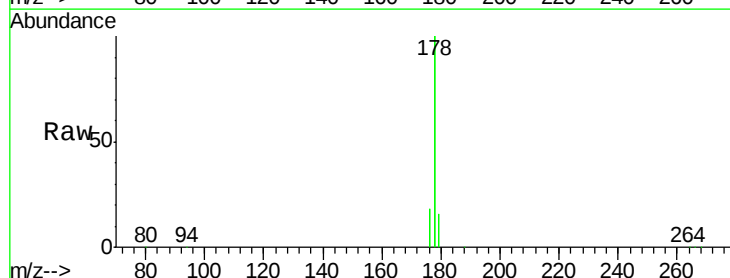
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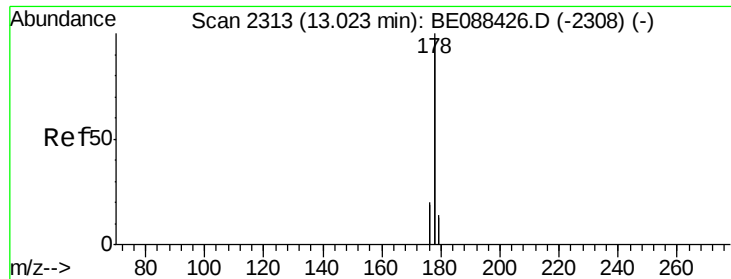
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#13
Phenanthrene
Concen: 2.50 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088465.D
Acq: 1 Nov 2014 23:09

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	258061		
176	19.0	15.4	23.2	
179	16.7	12.8	19.2	





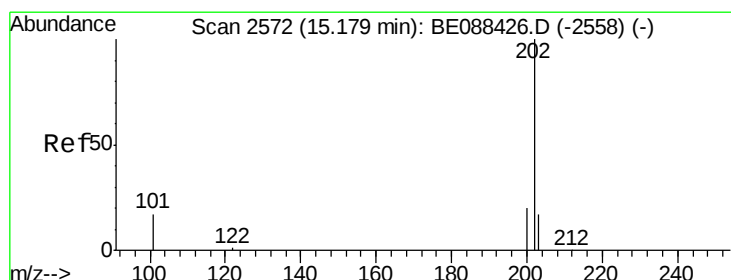
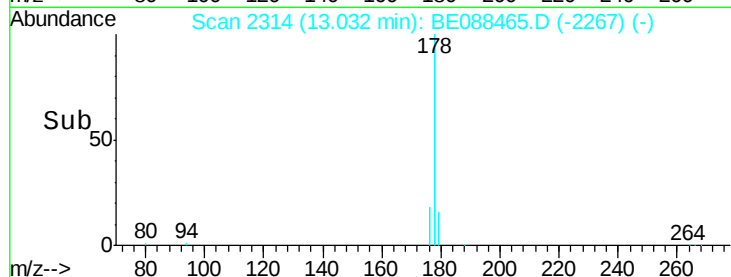
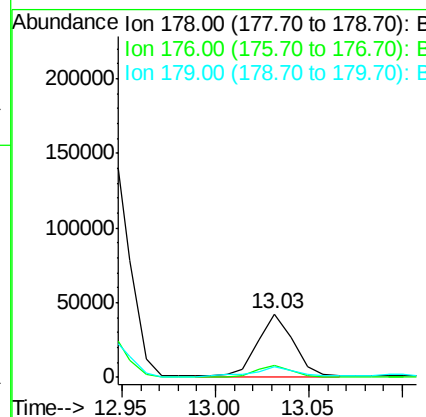
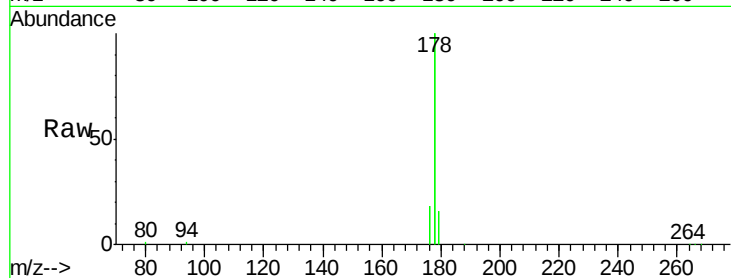
#14
 Anthracene
 Concen: 0.70 ng m
 RT: 13.03 min Scan# 2314
 Delta R.T. 0.01 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	83.5	15.0	22.4#
179	73.4	12.5	18.7#

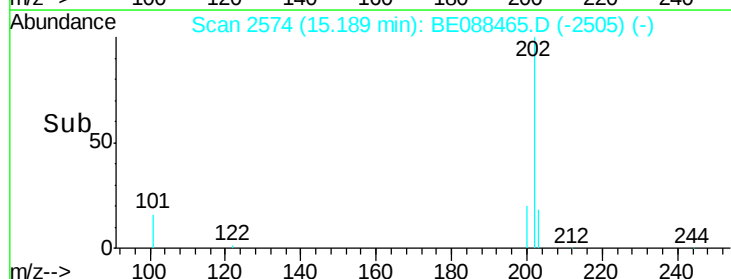
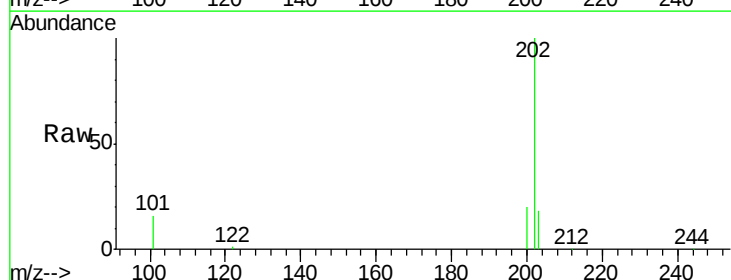
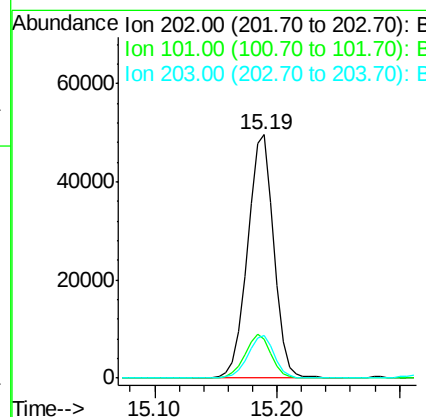
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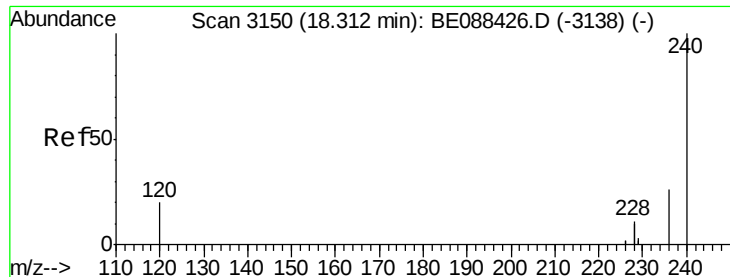
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#15
 Fluoranthene
 Concen: 4.43 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.6	14.3	21.5
203	17.2	13.6	20.4





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

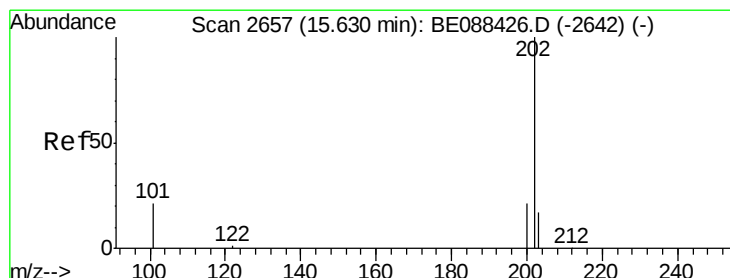
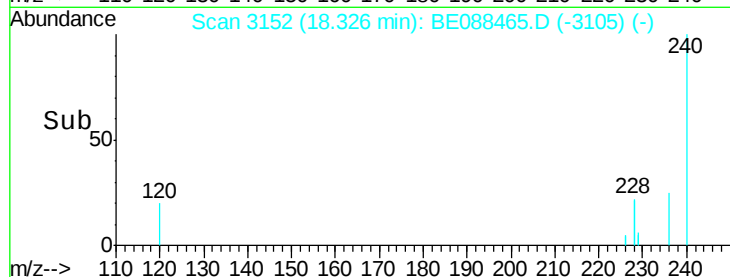
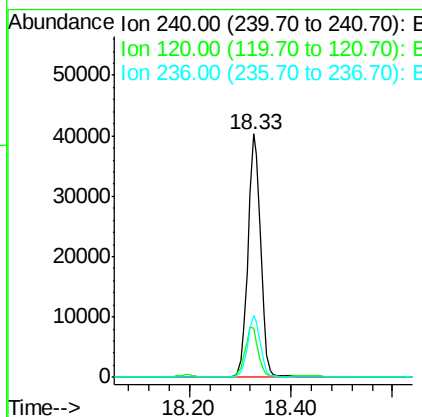
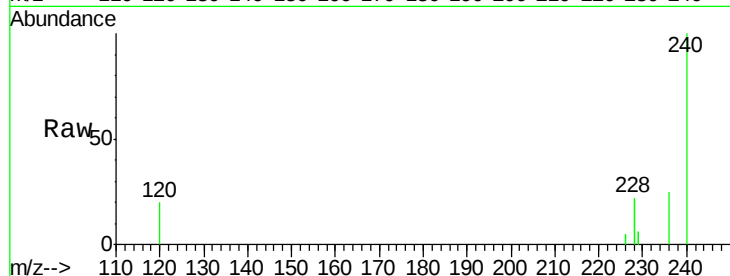
ClientSampleId :

YS19-SB40-1014RE

Tgt Ion:	240	Resp:	68436
Ion Ratio	Lower	Upper	
240	100		
120	20.3	16.4	24.6
236	25.4	20.5	30.7

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#17

Pyrene

Concen: 2.75 ng

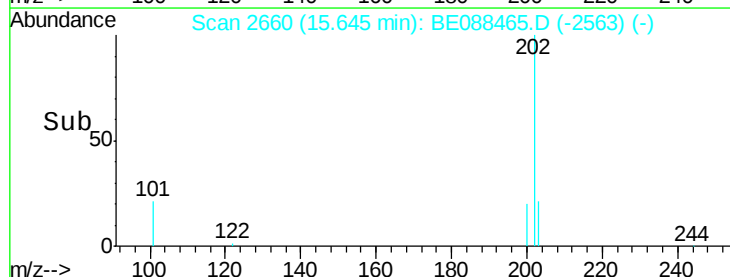
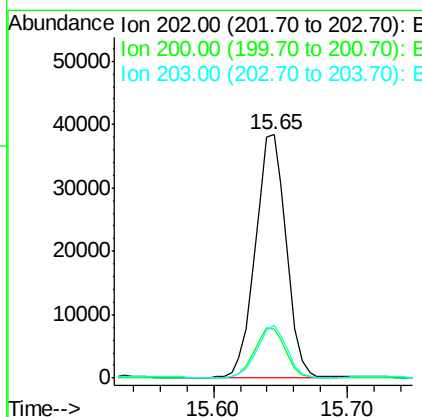
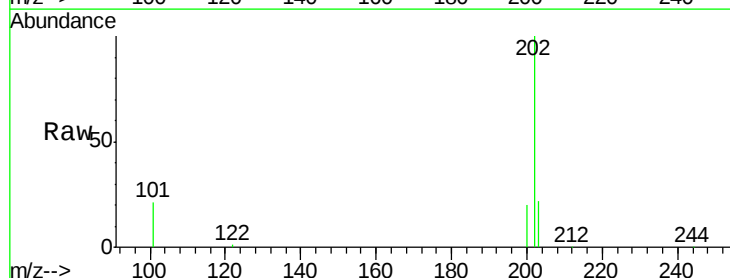
RT: 15.65 min Scan# 2660

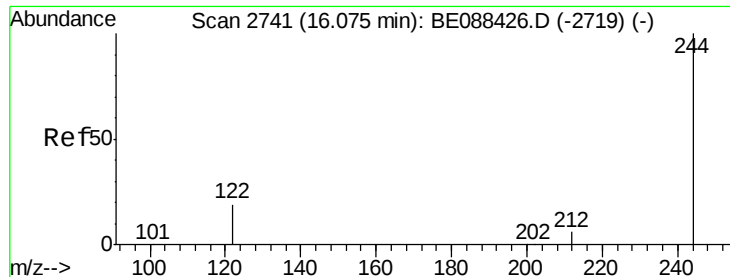
Delta R.T. 0.02 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

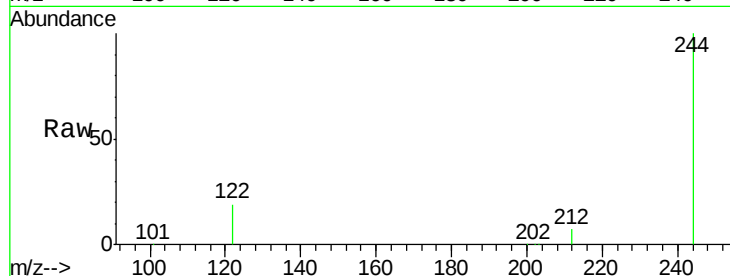
Tgt Ion:	202	Resp:	61402
Ion Ratio	Lower	Upper	
202	100		
200	20.4	16.1	24.1
203	20.6	13.8	20.8





#18
 Terphenyl-d14
 Concen: 32.81 ng
 RT: 16.10 min Scan# 2746
 Delta R.T. 0.03 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

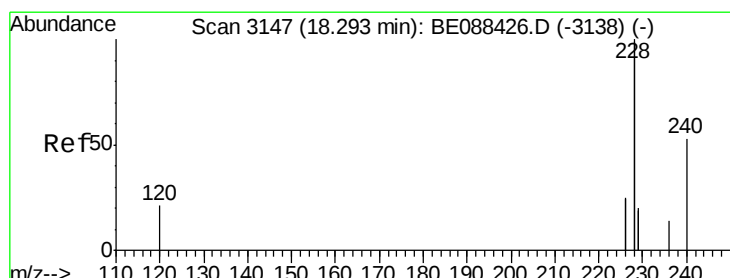
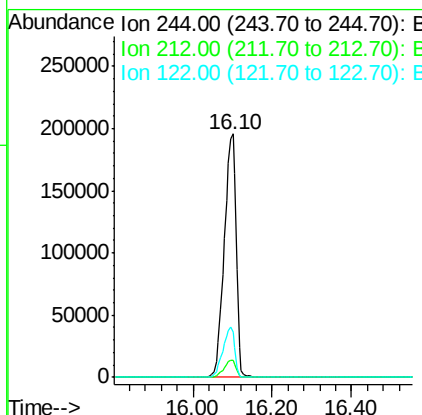
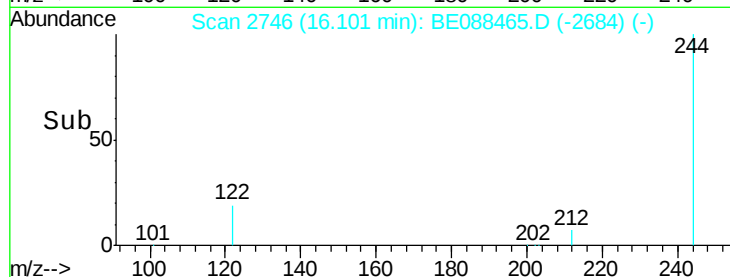
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE



Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	18.6	15.6	23.4

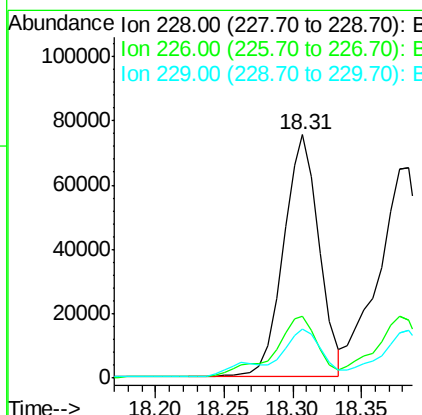
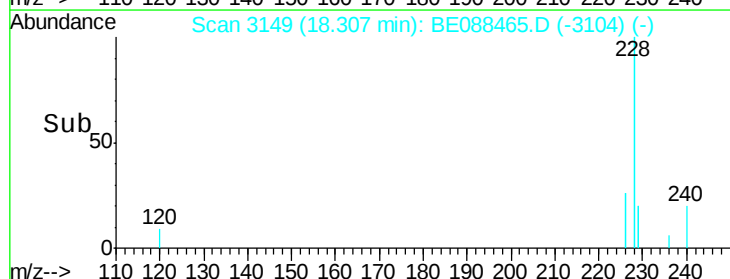
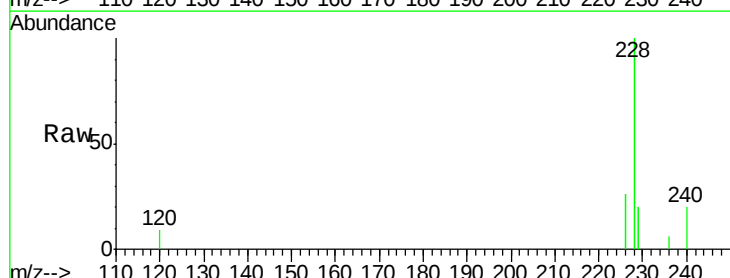
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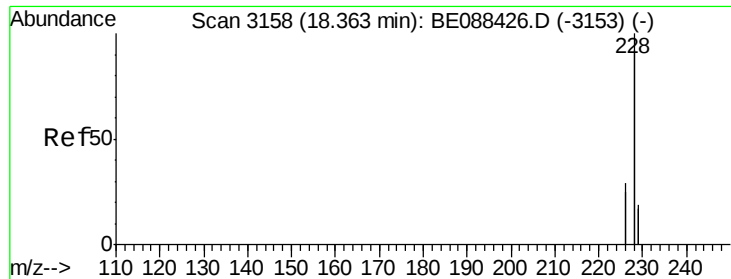
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#19
 Benzo(a)anthracene
 Concen: 2.11 ng
 RT: 18.31 min Scan# 3149
 Delta R.T. 0.01 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.6	19.8	29.6
229	20.2	16.0	24.0





#20

Chrysene

Concen: 2.26 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088465.D

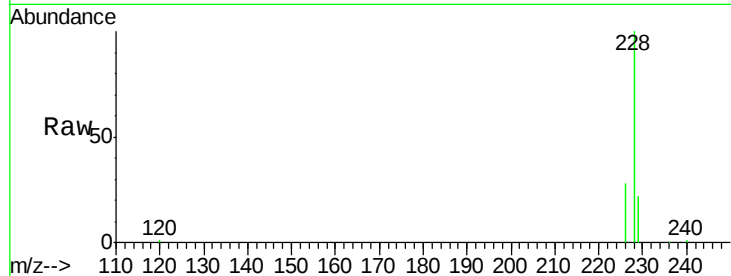
Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

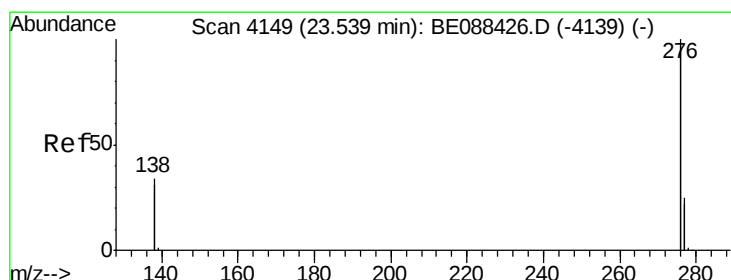
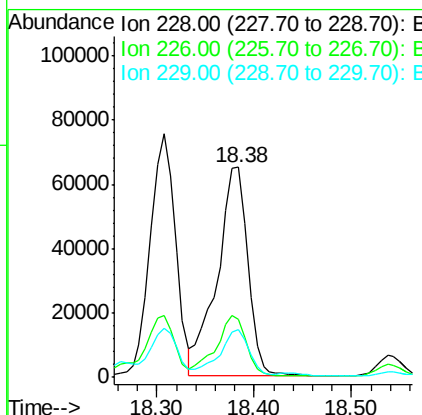
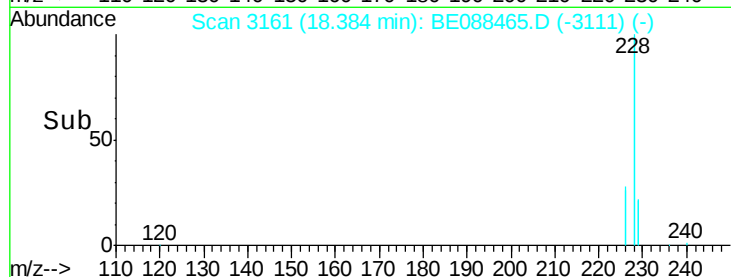
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Tgt Ion:	228	Resp:	142751
Ion Ratio	Lower	Upper	
228	100		
226	27.5	23.6	35.4
229	22.5	15.4	23.2

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#21

Indeno(1,2,3-cd)pyrene

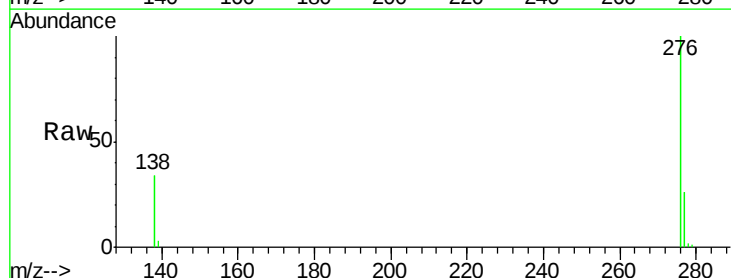
Concen: 1.63 ng m

RT: 23.58 min Scan# 4155

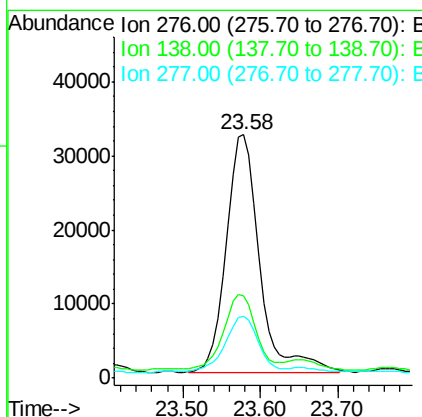
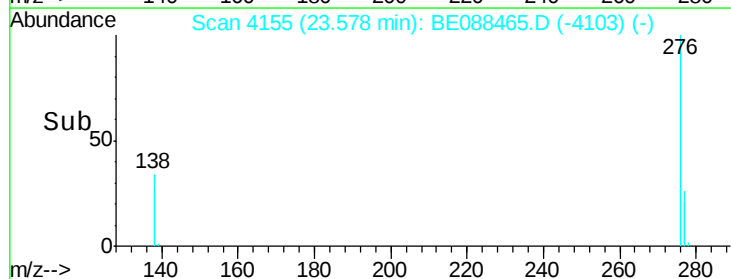
Delta R.T. 0.04 min

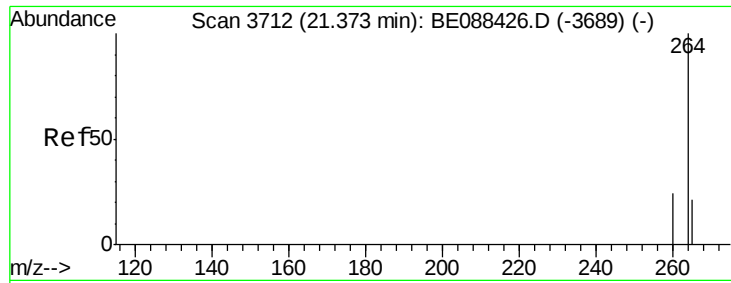
Lab File: BE088465.D

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Tgt Ion:	276	Resp:	95987
Ion Ratio	Lower	Upper	
276	100		
138	30.2	20.2	30.2
277	22.7	14.8	22.2#





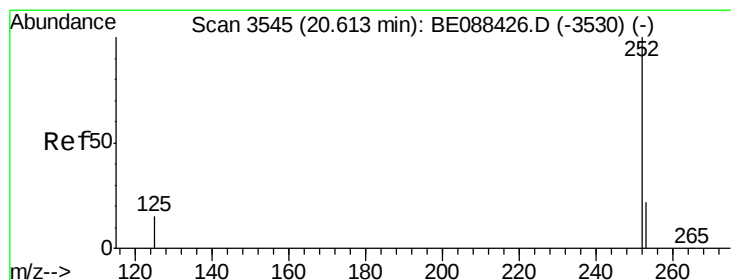
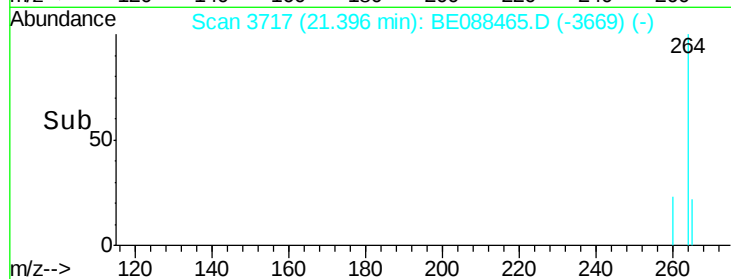
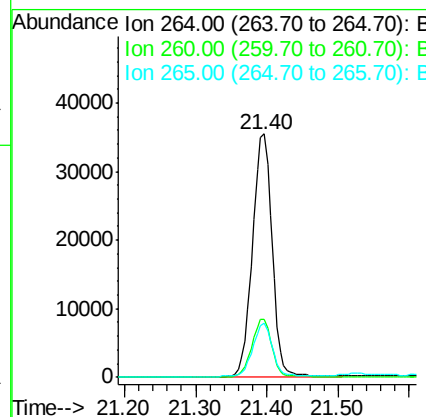
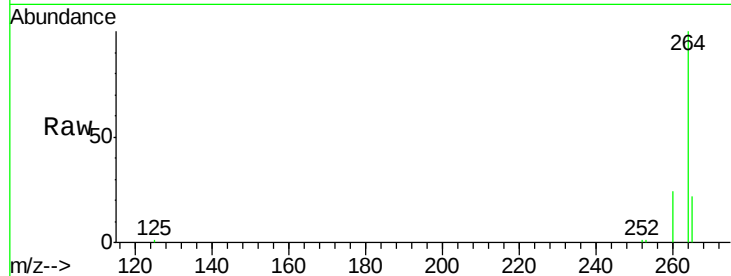
#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3717
 Delta R.T. 0.02 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	22.2	17.2	25.8

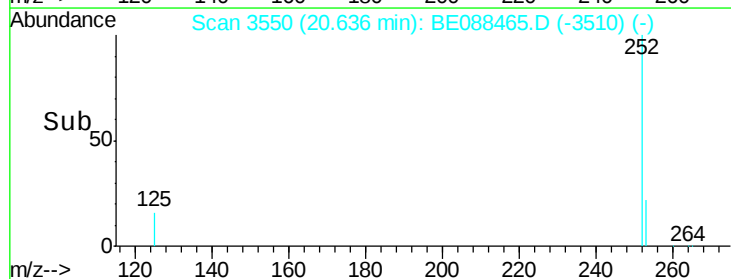
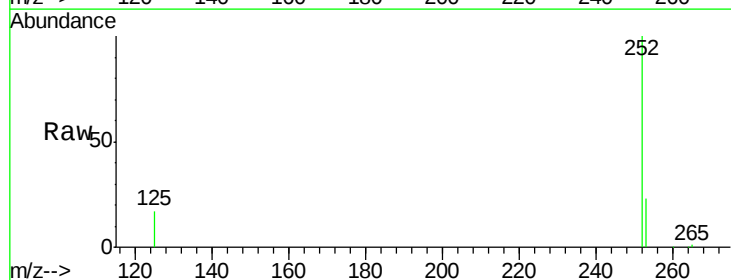
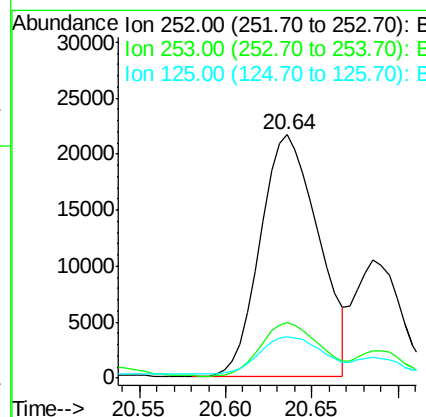
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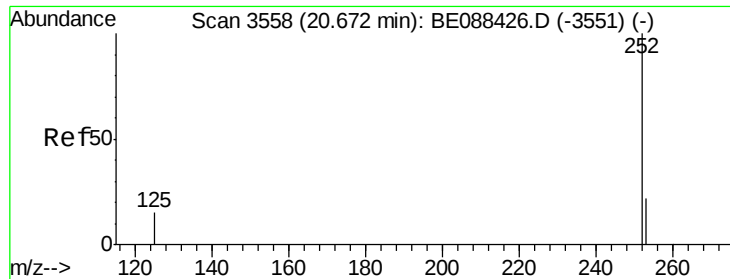
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#23
 Benzo(b)fluoranthene
 Concen: 3.44 ng
 RT: 20.64 min Scan# 3550
 Delta R.T. 0.02 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	17.1	12.3	18.5





#24

Benzo(k)fluoranthene

Concen: 1.08 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088465.D

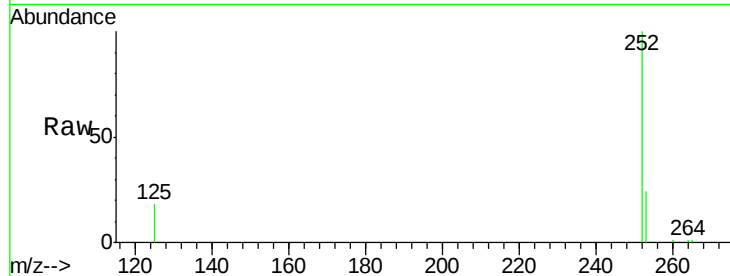
Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

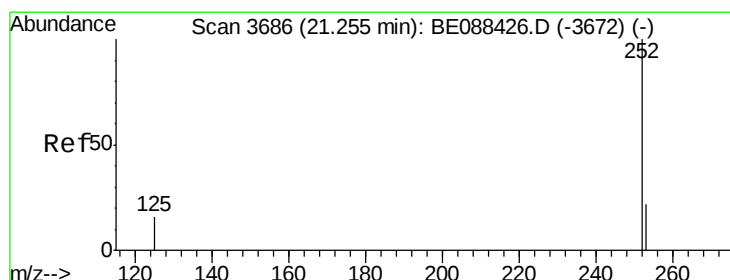
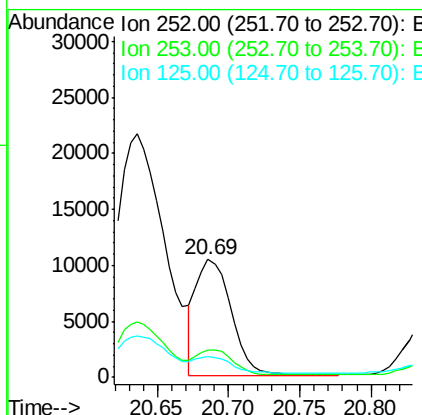
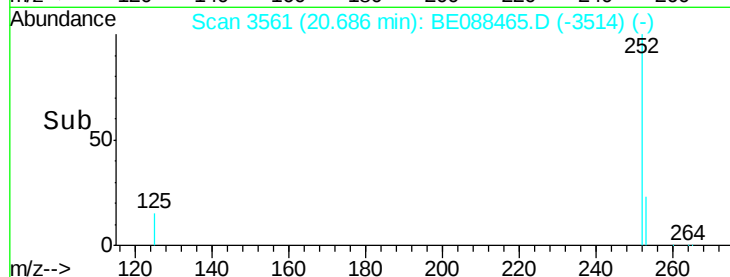
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.8
125	18.2	12.2	18.4

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#25

Benzo(a)pyrene

Concen: 2.24 ng

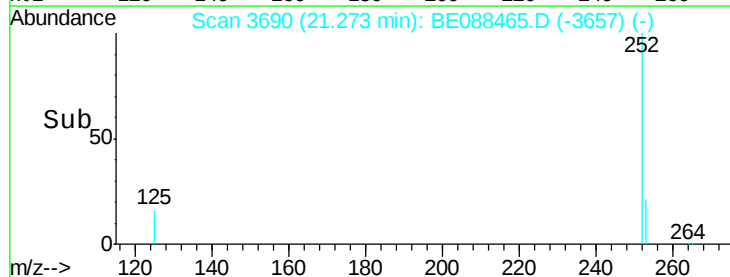
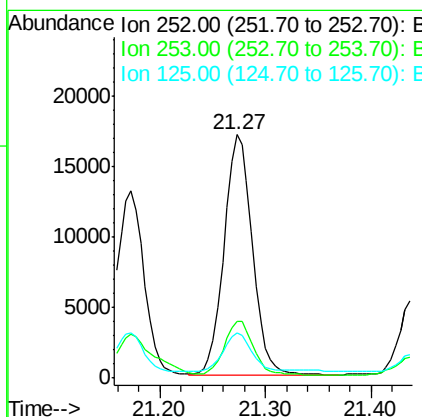
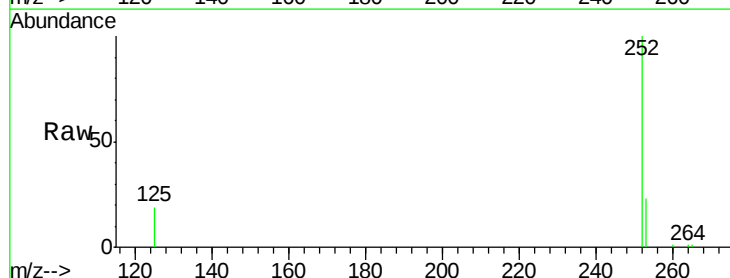
RT: 21.27 min Scan# 3690

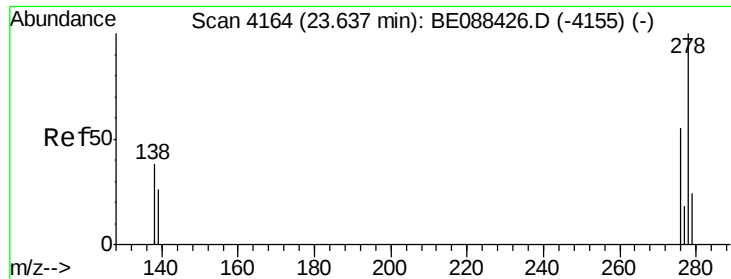
Delta R.T. 0.02 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

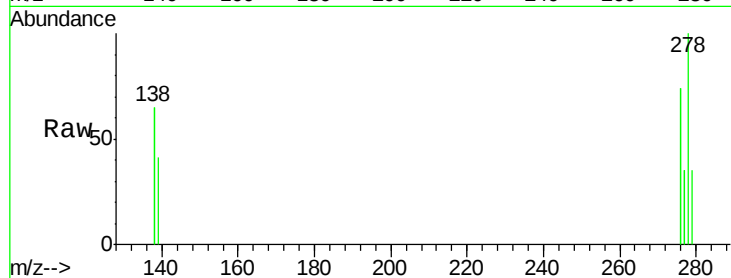
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	18.7	13.7	20.5





#26
Dibenzo(a,h)anthracene
Concen: 0.39 ng
RT: 23.66 min Scan# 4167
Delta R.T. 0.02 min
Lab File: BE088465.D
Acq: 1 Nov 2014 23:09

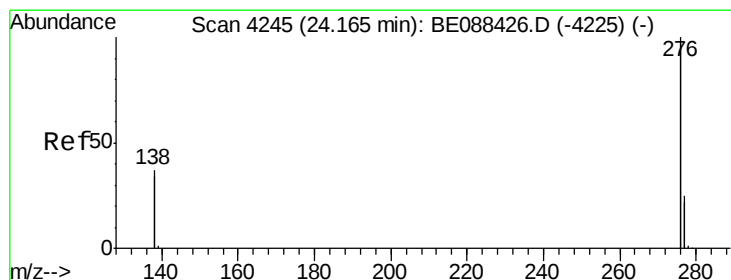
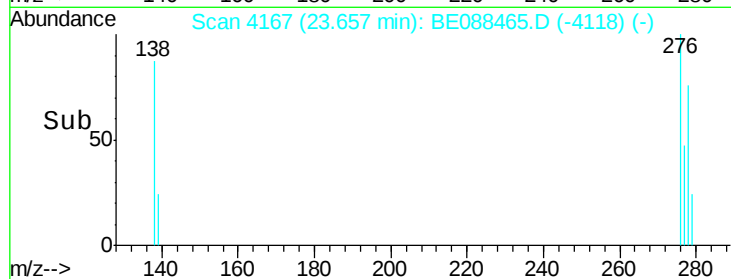
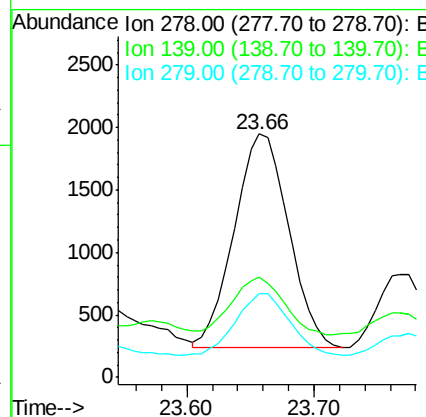
Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014RE



Tgt Ion	Ratio	Lower	Upper
278	100		
139	41.2	22.1	33.1#
279	34.6	19.7	29.5#

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#27
Benzo(g,h,i)perylene
Concen: 1.45 ng
RT: 24.21 min Scan# 4252
Delta R.T. 0.05 min
Lab File: BE088465.D
Acq: 1 Nov 2014 23:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.8	29.6
138	35.4	29.3	43.9

