

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
 Data File : BE088186.D
 Acq On : 22 Oct 2014 17:41
 Operator : TP/JJ
 Sample : F4303-01DL 20X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS01-1014DL

Manual Integrations
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 10/28/2014 12:05:55 PM

Quant Time: Oct 27 04:27:14 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	26824	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	106467	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	60176	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	111747	5.00	ng	0.00
16) Chrysene-d12	18.39	240	59271	5.00	ng	0.00
22) Perylene-d12	21.45	264	57014	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	29190	3.80	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	86678	5.21	ng	0.00
18) Terphenyl-d14	16.15	244	82542	8.65	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	4723	0.22	ng	98
6) 2-Methylnaphthalene	9.58	142	2422	0.18	ng	96
9) Acenaphthylene	10.67	152	31097	0.34	ng	100
10) Acenaphthene	10.88	154	5253	0.37	ng	96
11) Fluorene	11.55	166	7027	0.47	ng	97
13) Phenanthrene	13.01	178	258398	3.05	ng	95
14) Anthracene	13.09	178	79557m	0.91	ng	
15) Fluoranthene	15.25	202	78810	3.71	ng	99
17) Pyrene	15.70	202	67301	4.18	ng	97
19) Benzo(a)anthracene	18.36	228	106405	2.02	ng	99
20) Chrysene	18.44	228	105599	2.04	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	66046	1.15	ng	# 93
23) Benzo(b)fluoranthene	20.69	252	26563	1.96	ng	98
24) Benzo(k)fluoranthene	20.74	252	14750	1.02	ng	98
25) Benzo(a)pyrene	21.33	252	20964	1.68	ng	98
26) Dibenzo(a,h)anthracene	23.73	278	4346	0.35	ng	96
27) Benzo(g,h,i)perylene	24.27	276	63805	1.18	ng	98

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

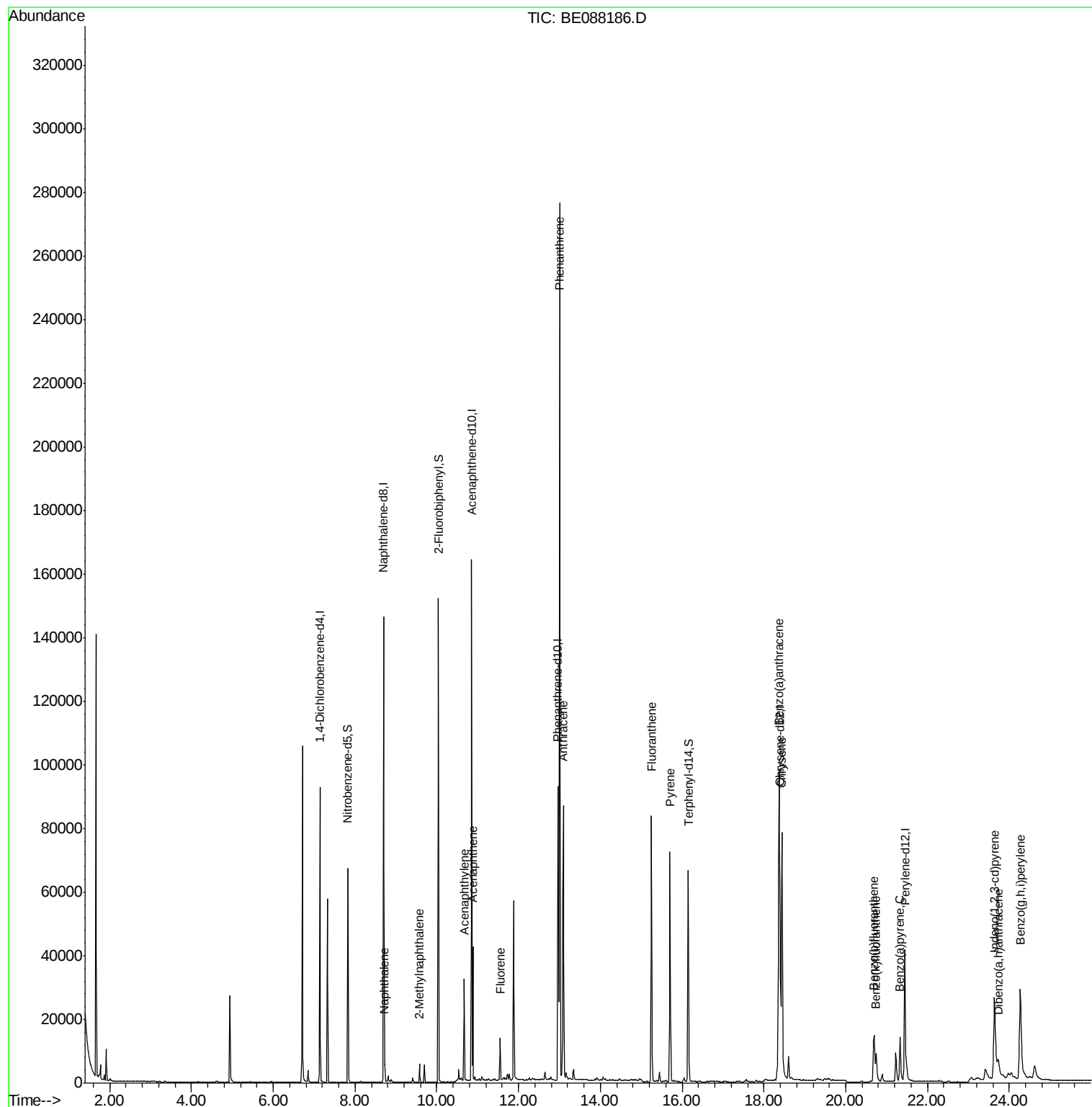
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
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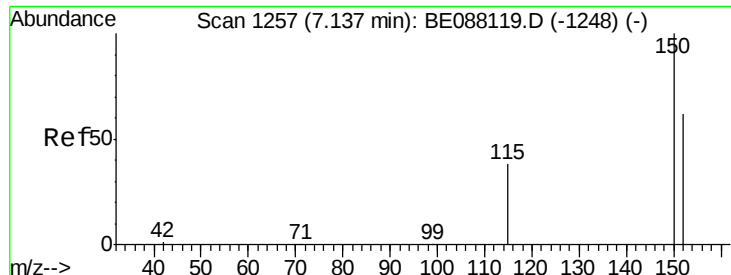
Instrument :
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YS19-SS01-1014DL

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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1259

Delta R.T. 0.00 min

Lab File: BE088186.D

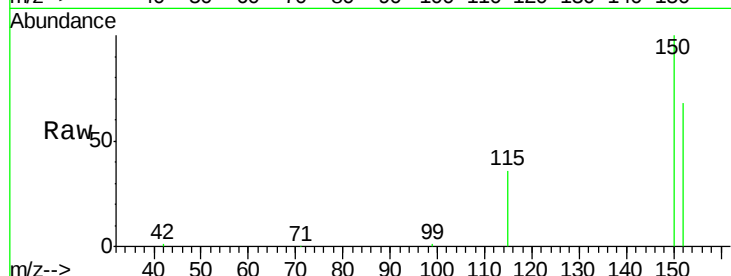
Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014DL



Tgt Ion:152 Resp: 26824

Ion Ratio Lower Upper

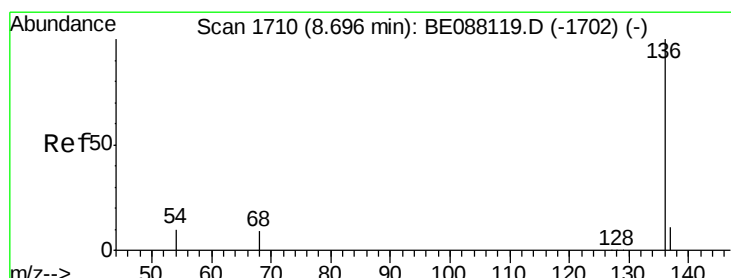
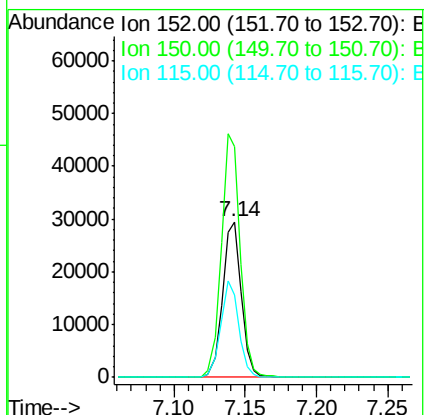
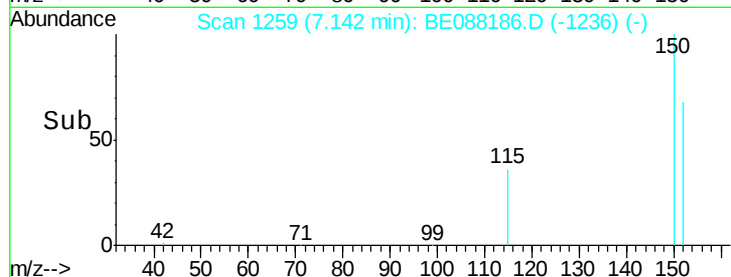
152 100

150 147.9 129.2 193.8

115 52.8 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

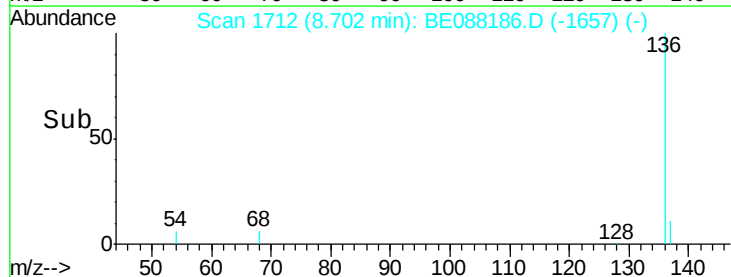
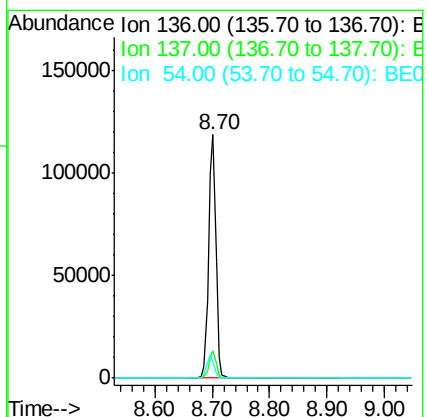
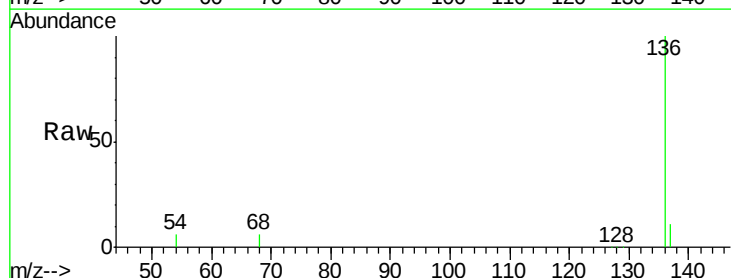
Tgt Ion:136 Resp: 106467

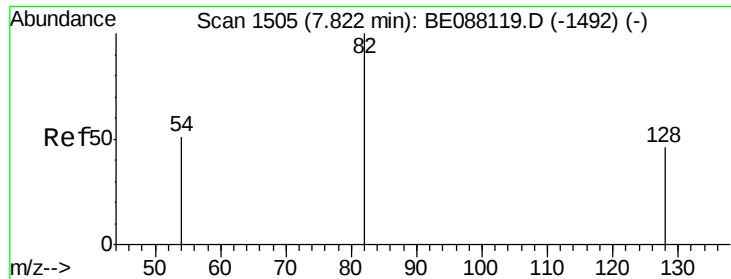
Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

54 6.2 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 3.80 ng

RT: 7.82 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088186.D

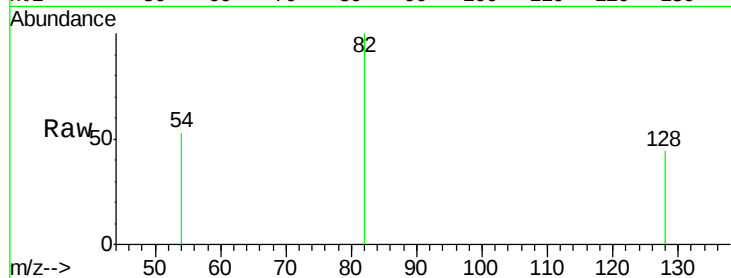
Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014DL



Tgt Ion: 82 Resp: 29190

Ion Ratio Lower Upper

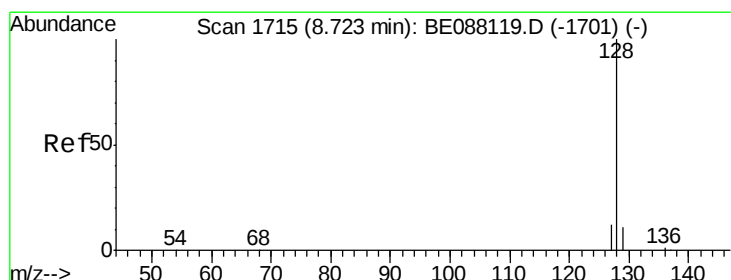
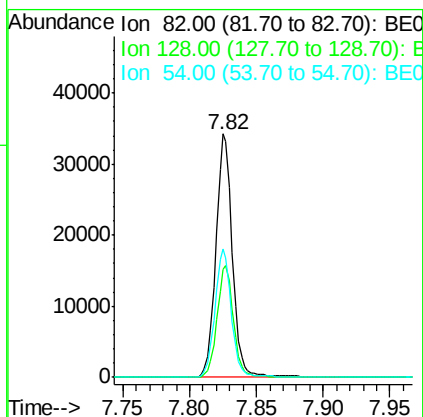
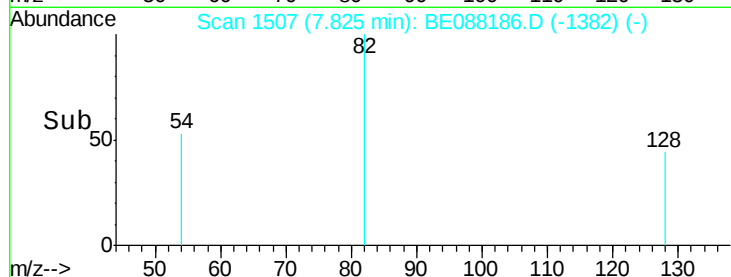
82 100

128 44.5 37.1 55.7

54 53.0 41.1 61.7

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#5

Naphthalene

Concen: 0.22 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

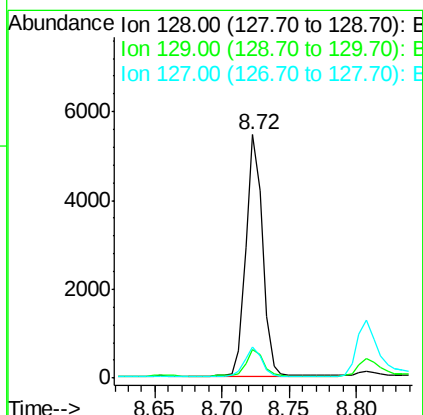
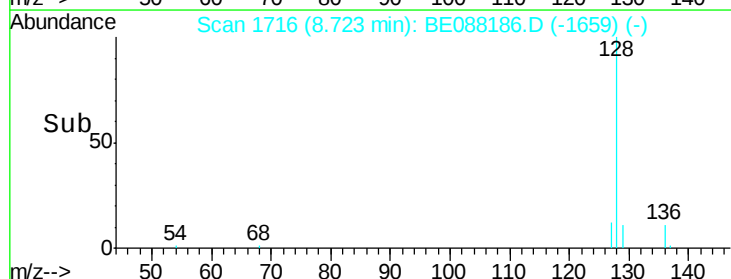
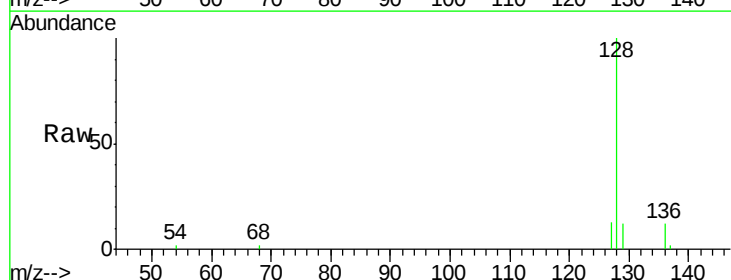
Tgt Ion: 128 Resp: 4723

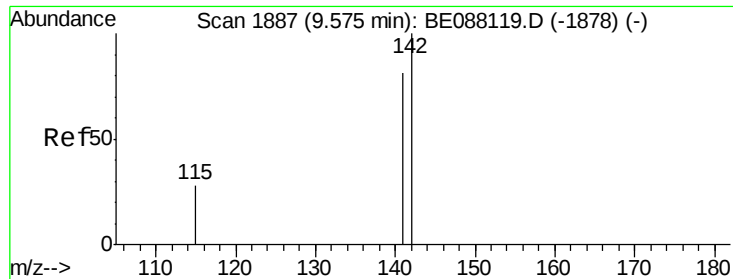
Ion Ratio Lower Upper

128 100

129 11.8 8.9 13.3

127 12.9 9.7 14.5





#6

2-Methylnaphthalene

Concen: 0.18 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088186.D

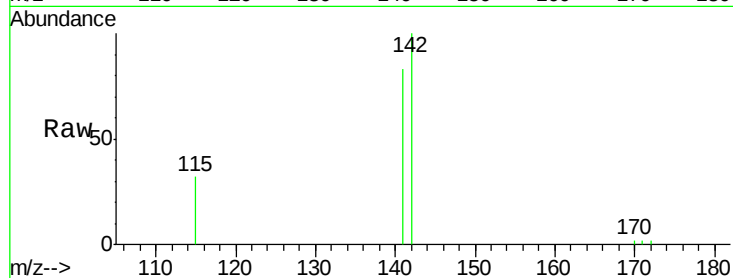
Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

ClientSampleId :

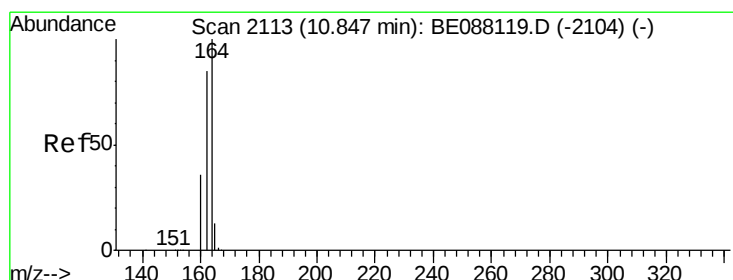
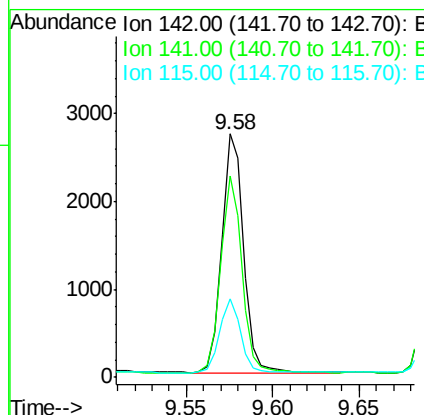
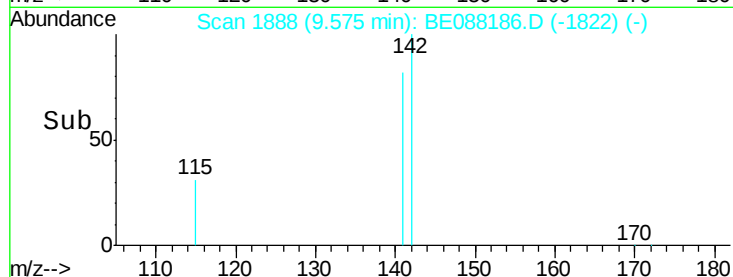
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Tgt Ion:	142	Resp:	2422
Ion Ratio	Lower	Upper	
142	100		
141	82.8	64.6	97.0
115	32.1	22.6	34.0

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#7

Acenaphthene-d10

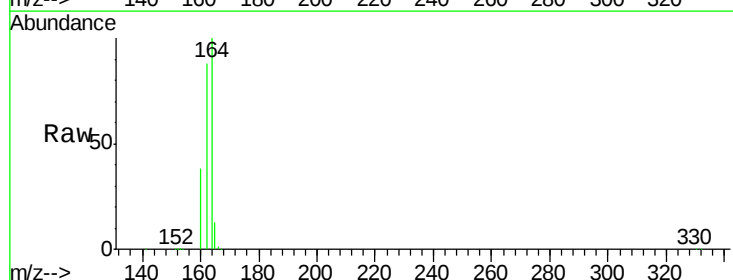
Concen: 5.00 ng

RT: 10.85 min Scan# 2114

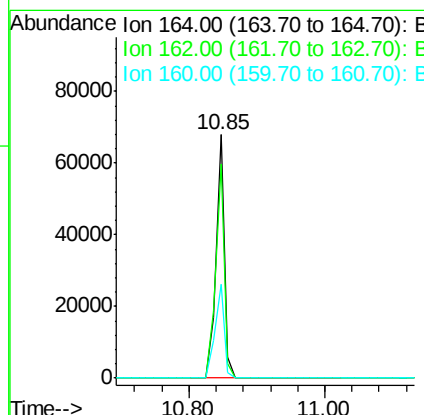
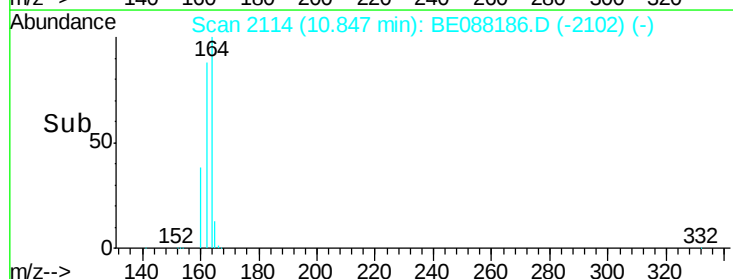
Delta R.T. -0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41



Tgt Ion:	164	Resp:	60176
Ion Ratio	Lower	Upper	
164	100		
162	88.2	68.3	102.5
160	38.3	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 5.21 ng

RT: 10.03 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

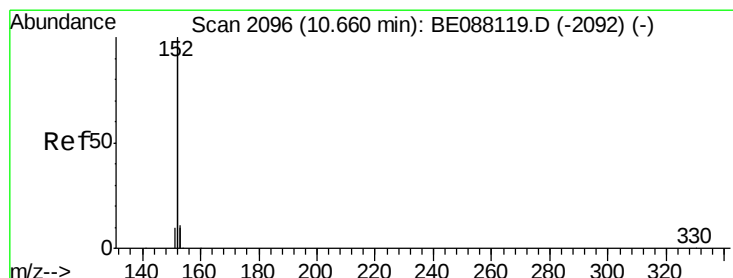
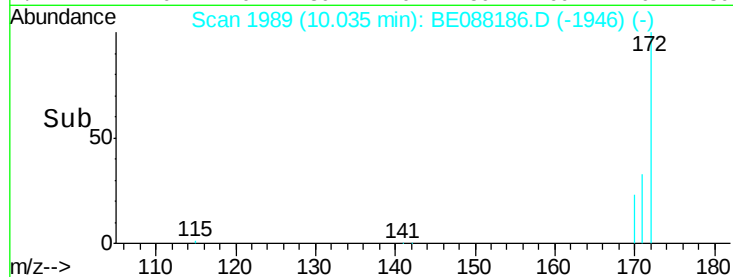
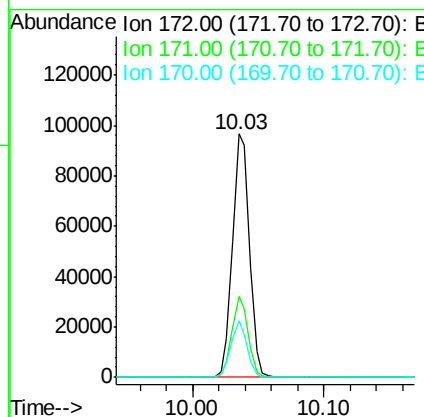
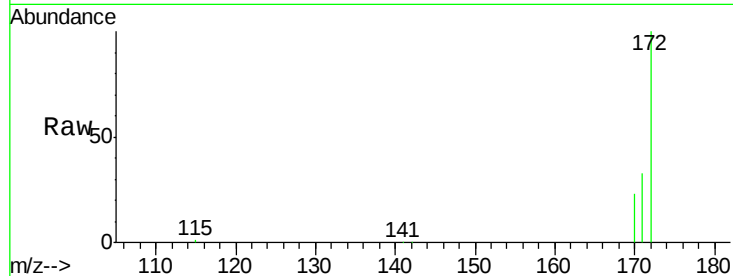
ClientSampleId :

YS19-SS01-1014DL

Tgt Ion:	172	Resp:	86678
Ion Ratio	Lower	Upper	
172	100		
171	33.3	25.4	38.2
170	23.4	17.4	26.2

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#9

Acenaphthylene

Concen: 0.34 ng

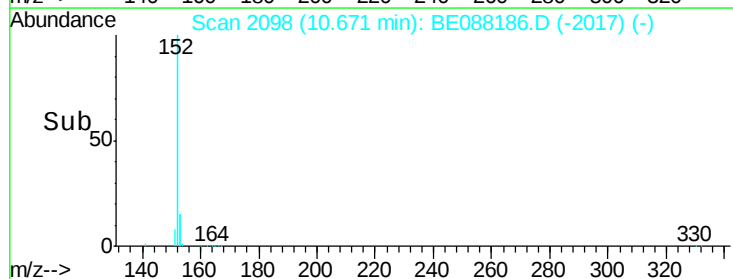
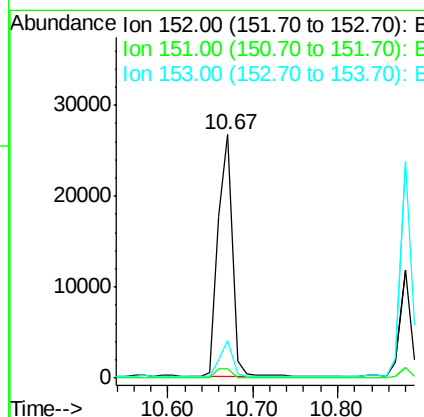
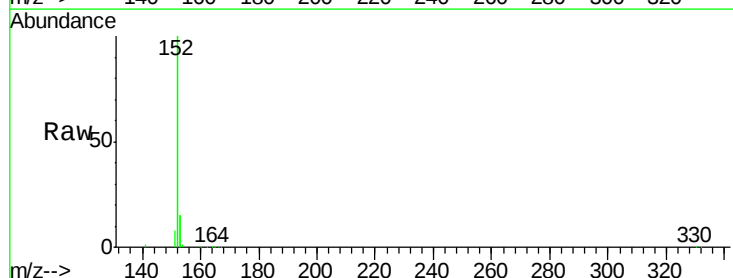
RT: 10.67 min Scan# 2098

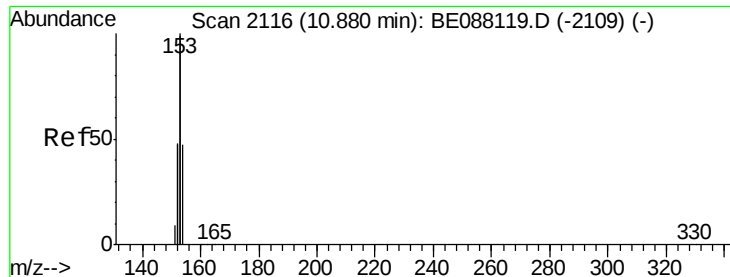
Delta R.T. 0.01 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Tgt Ion:	152	Resp:	31097
Ion Ratio	Lower	Upper	
152	100		
151	4.5	3.7	5.5
153	13.2	10.4	15.6





#10

Acenaphthene

Concen: 0.37 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

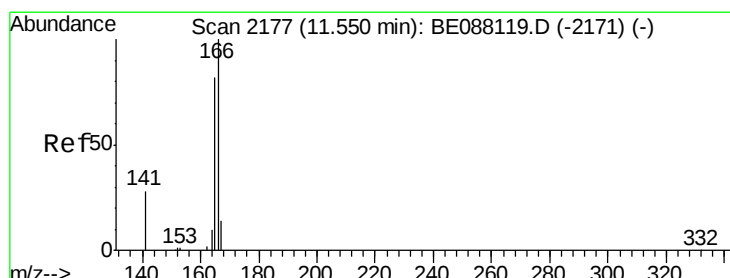
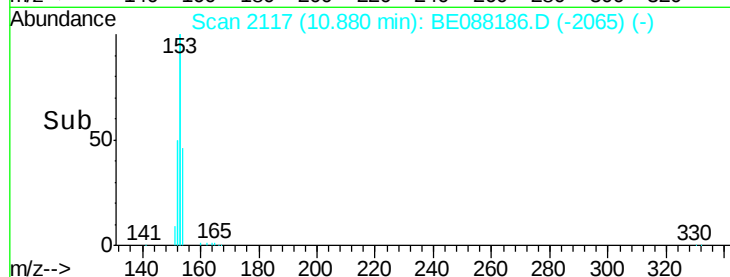
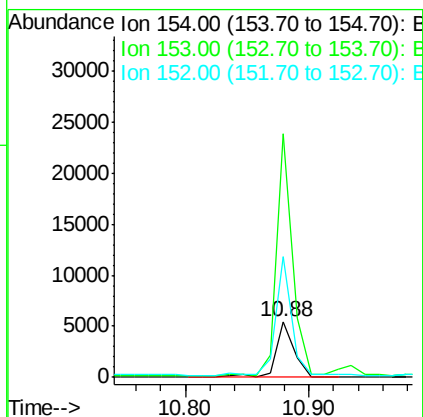
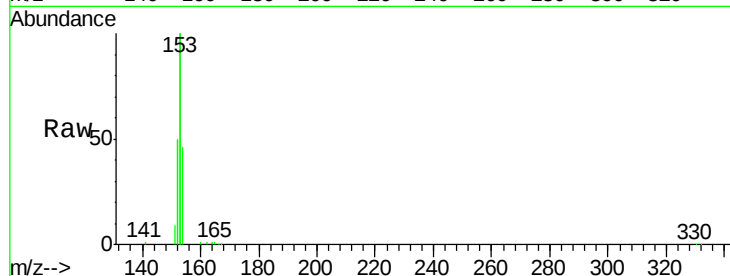
ClientSampleId :

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Tgt Ion:	154	Resp:	5253
Ion Ratio	Lower	Upper	
154	100		
153	396.8	327.8	491.6
152	194.2	157.6	236.4

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#11

Fluorene

Concen: 0.47 ng

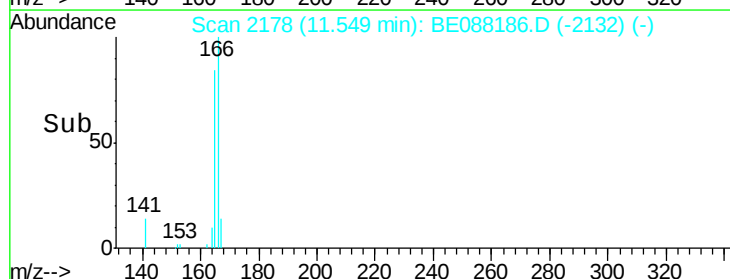
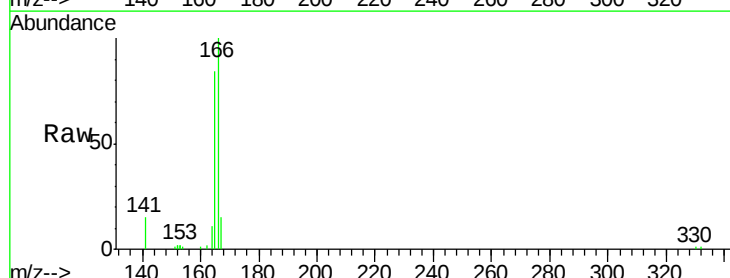
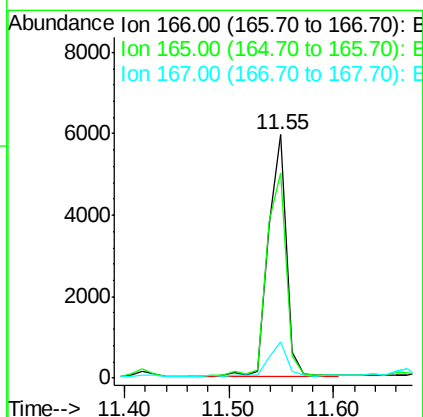
RT: 11.55 min Scan# 2178

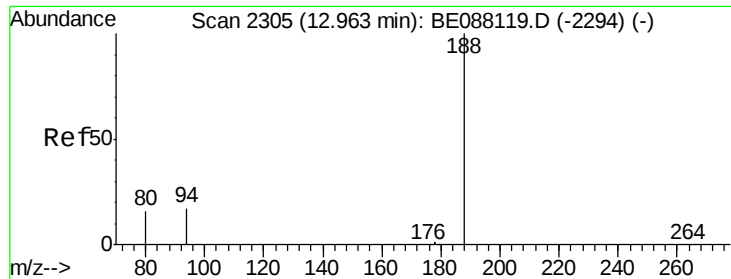
Delta R.T. -0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Tgt Ion:	166	Resp:	7027
Ion Ratio	Lower	Upper	
166	100		
165	91.6	71.4	107.2
167	14.4	10.6	16.0





#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2306

Delta R.T. -0.00 min

Lab File: BE088186.D

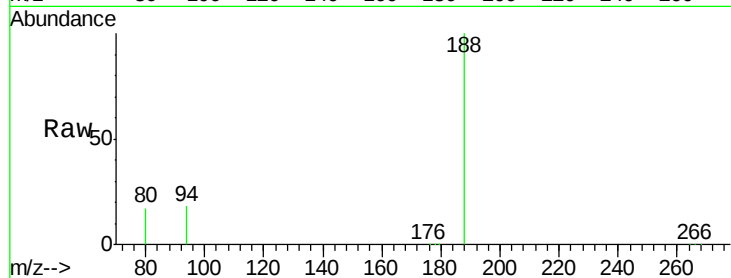
Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

ClientSampleId :

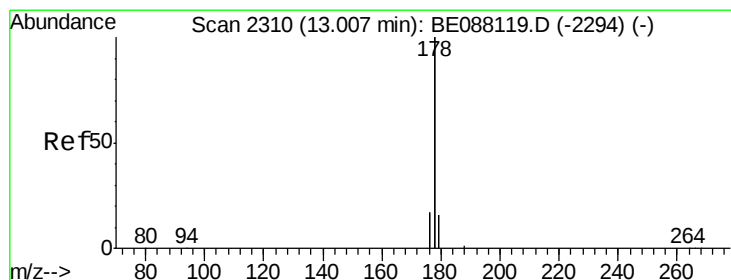
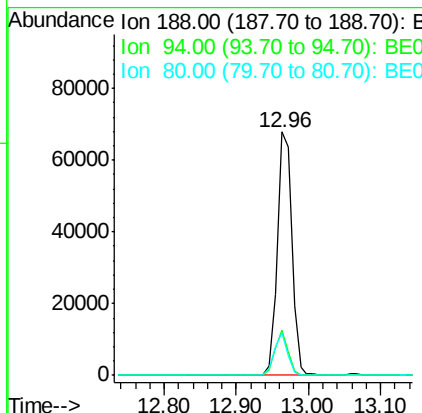
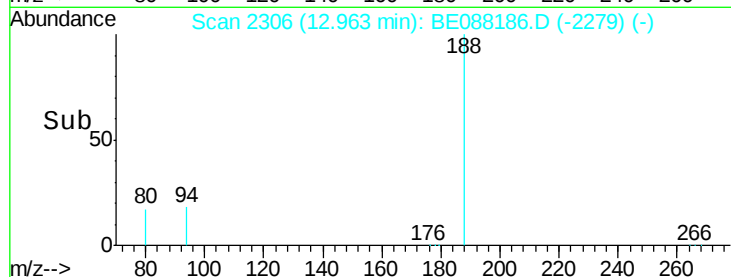
YS19-SS01-1014DL



Tgt Ion	Ratio	Lower	Upper
188	100		
94	18.4	13.9	20.9
80	17.4	12.9	19.3

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#13

Phenanthrene

Concen: 3.05 ng

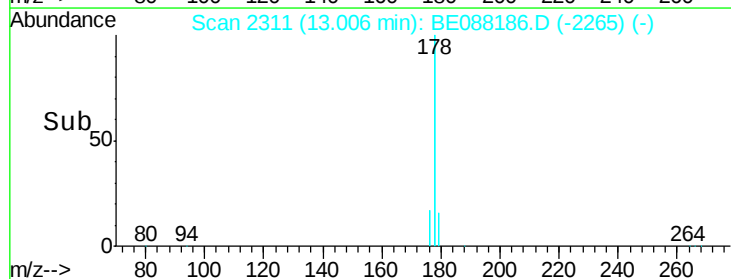
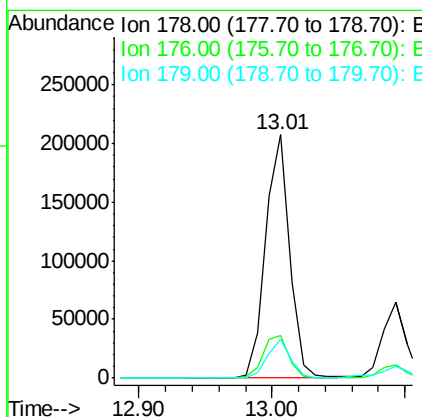
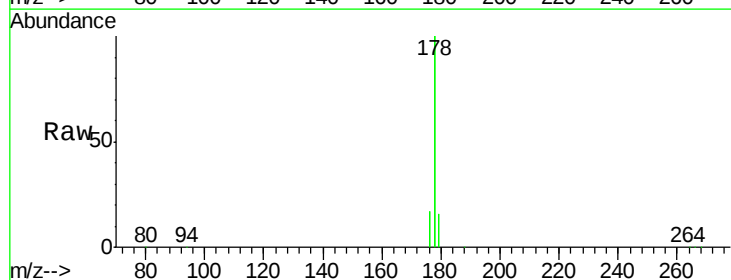
RT: 13.01 min Scan# 2311

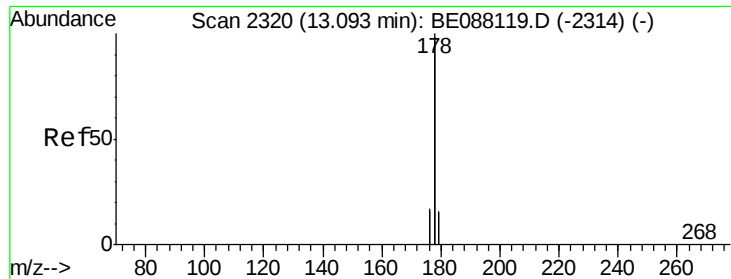
Delta R.T. 0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	12.5	18.7
179	15.3	13.5	20.3





#14

Anthracene

Concen: 0.91 ng m

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014DL

Tgt Ion:178 Resp: 79557
Ion Ratio Lower Upper

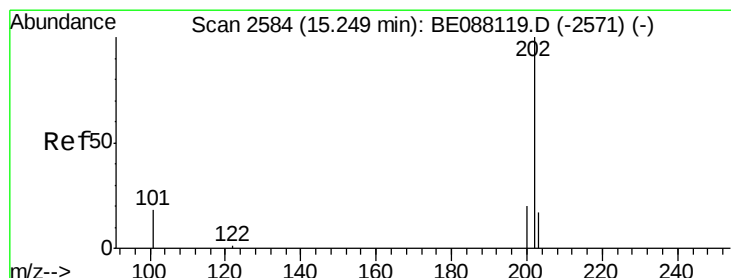
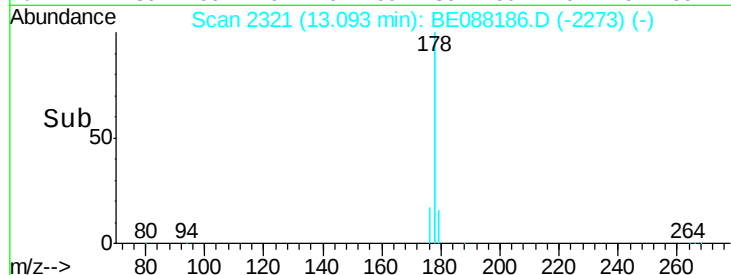
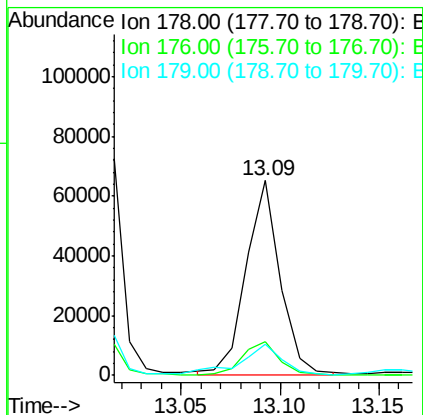
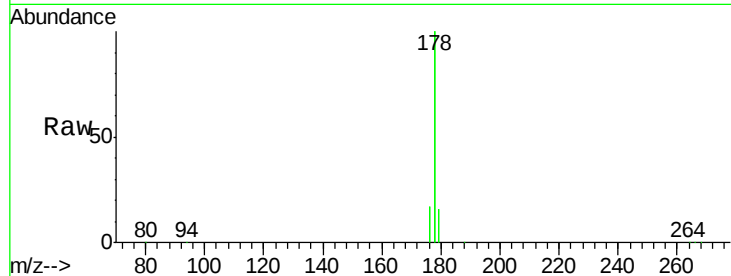
178 100

176 59.9 14.6 21.8#

179 49.5 12.5 18.7#

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#15

Fluoranthene

Concen: 3.71 ng

RT: 15.25 min Scan# 2585

Delta R.T. 0.00 min

Lab File: BE088186.D

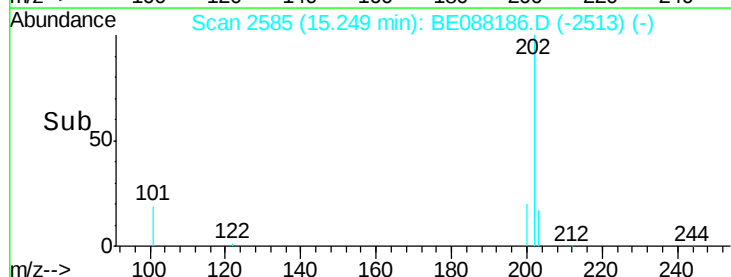
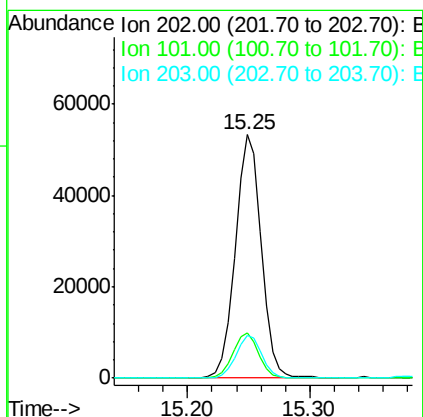
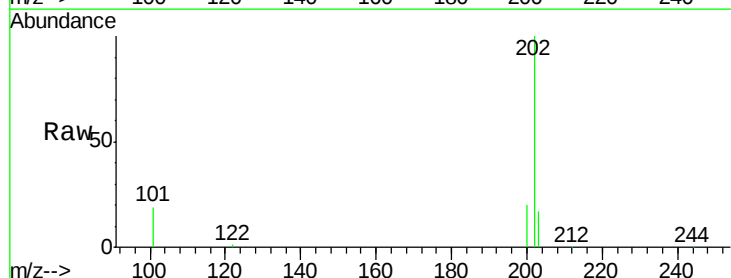
Acq: 22 Oct 2014 17:41

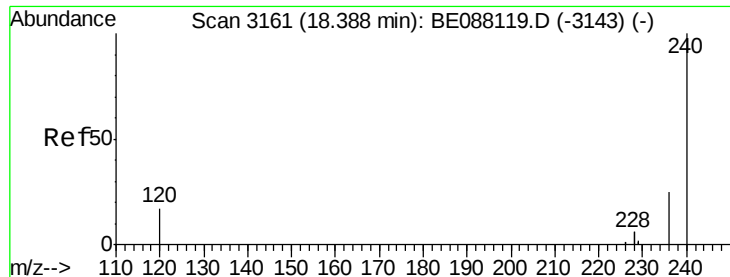
Tgt Ion:202 Resp: 78810
Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

203 17.4 13.5 20.3





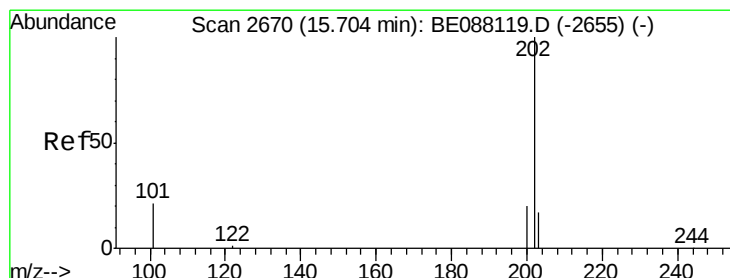
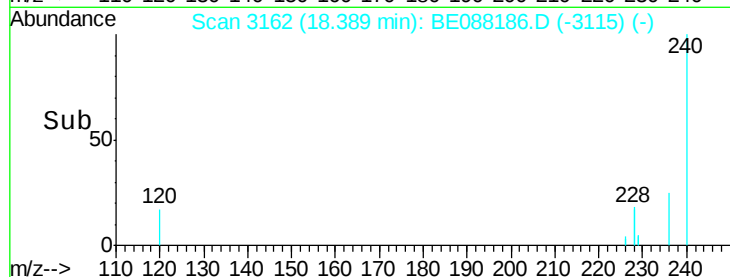
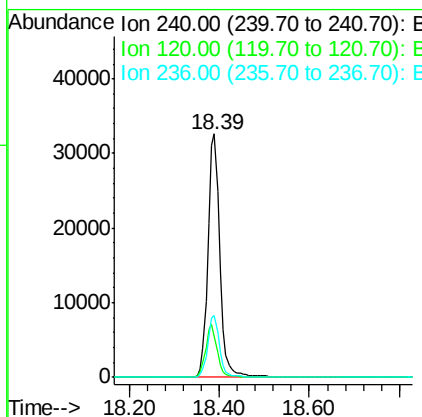
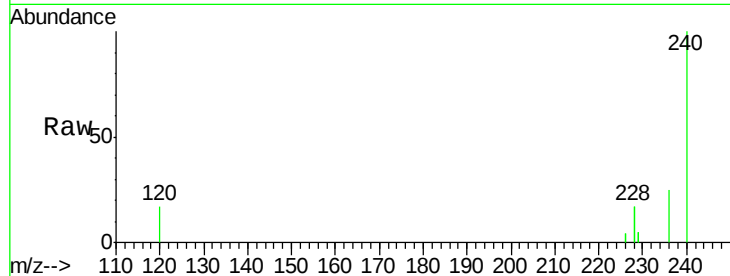
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.39 min Scan# 3162
Delta R.T. 0.00 min
Lab File: BE088186.D
Acq: 22 Oct 2014 17:41

Instrument :
BNA_E
ClientSampleId :
YS19-SS01-1014DL

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.1	13.9	20.9
236	25.2	19.9	29.9

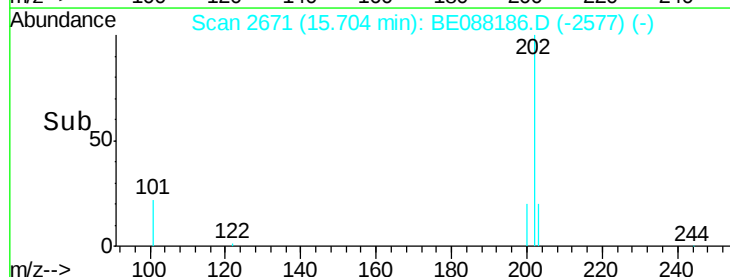
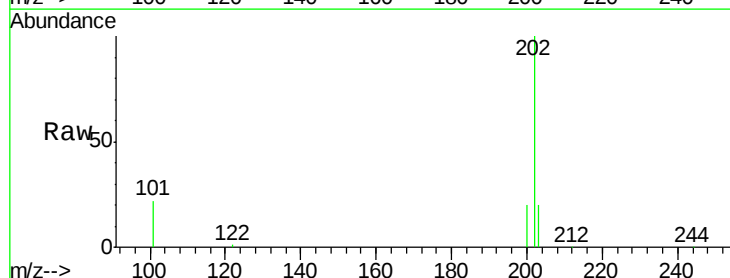
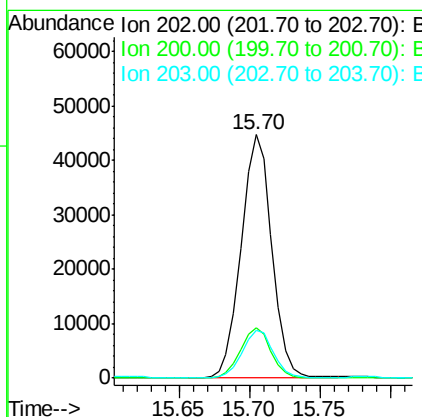
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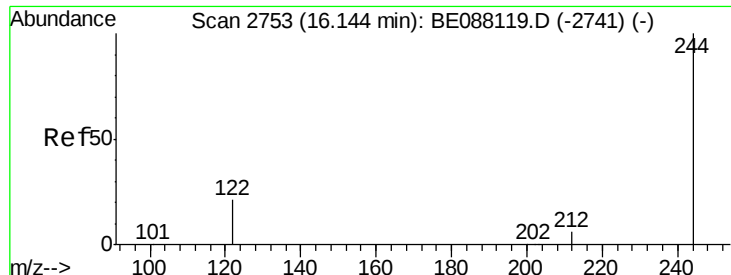
mohammad
10/28/2014 12:05:55 PM



#17
Pyrene
Concen: 4.18 ng
RT: 15.70 min Scan# 2671
Delta R.T. 0.00 min
Lab File: BE088186.D
Acq: 22 Oct 2014 17:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.1	24.1
203	19.7	13.9	20.9





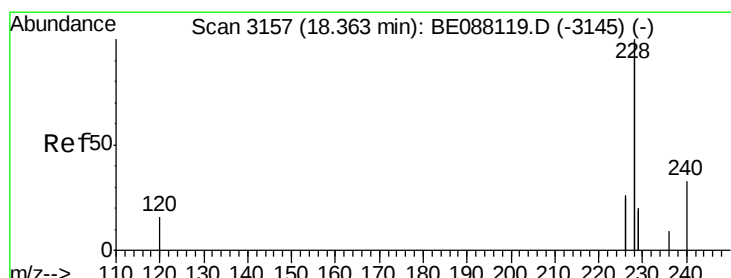
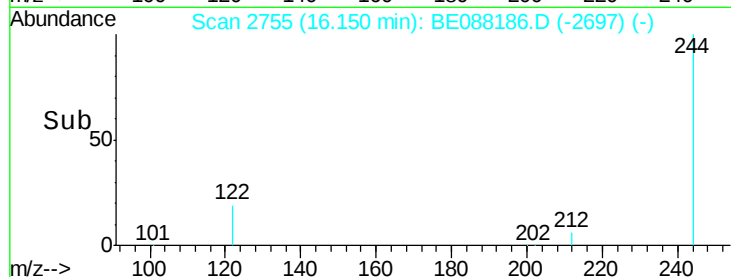
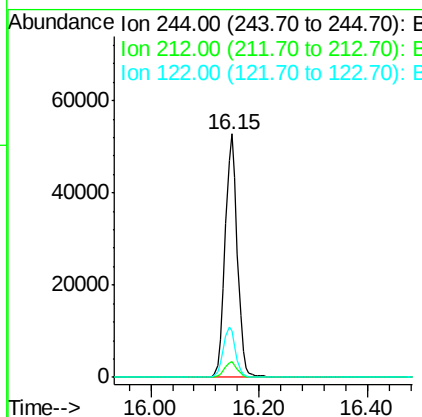
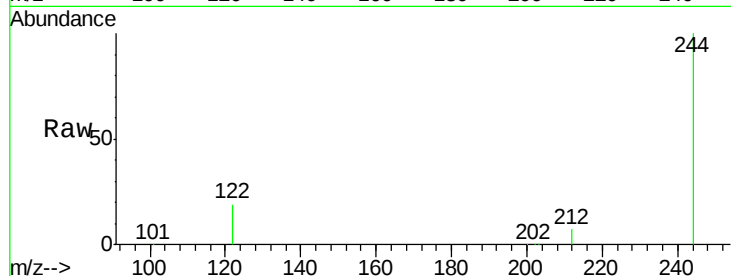
#18
 Terphenyl-d14
 Concen: 8.65 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.01 min
 Lab File: BE088186.D
 Acq: 22 Oct 2014 17:41

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS01-1014DL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	19.0	17.5	26.3

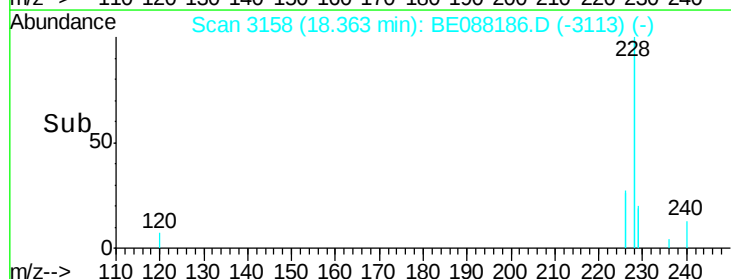
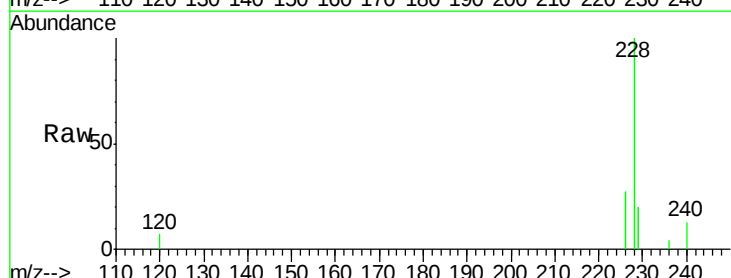
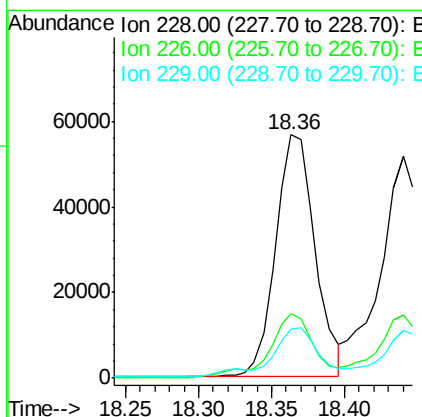
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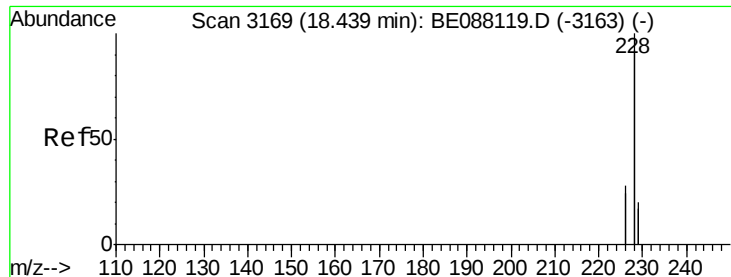
mohammad
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#19
 Benzo(a)anthracene
 Concen: 2.02 ng
 RT: 18.36 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: BE088186.D
 Acq: 22 Oct 2014 17:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	20.8	31.2
229	20.2	15.6	23.4





#20

Chrysene

Concen: 2.04 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

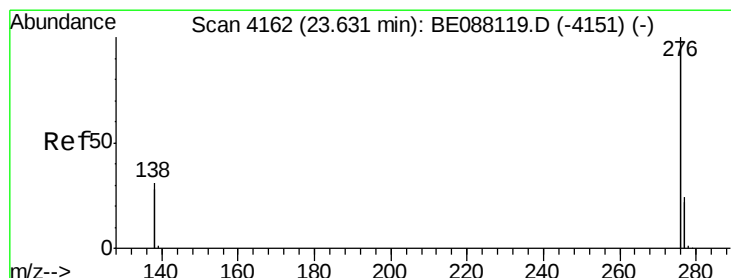
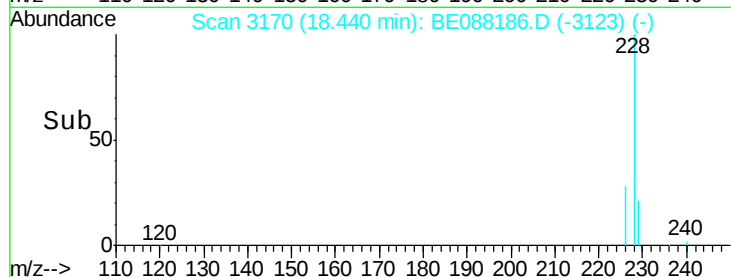
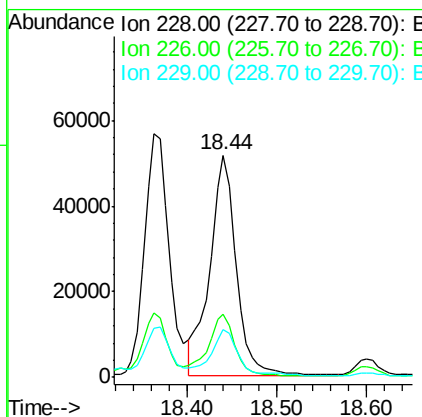
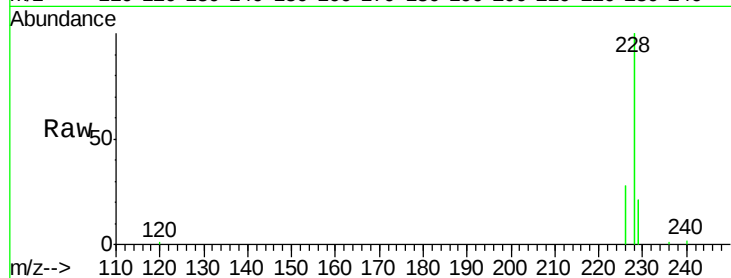
ClientSampleId :

YS19-SS01-1014DL

Tgt Ion:	228	Resp:	105599
Ion Ratio		Lower	Upper
228	100		
226	28.4	22.7	34.1
229	21.2	15.8	23.6

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#21

Indeno(1,2,3-cd)pyrene

Concen: 1.15 ng

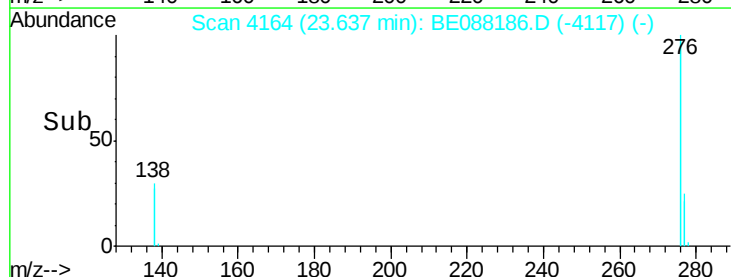
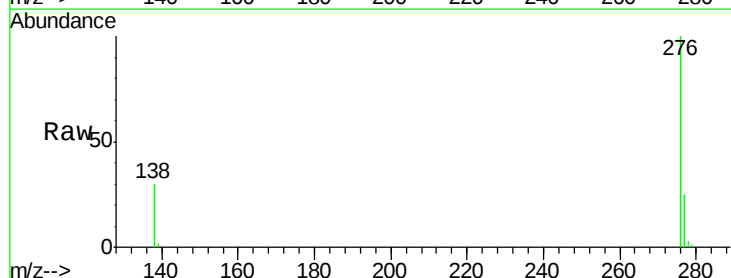
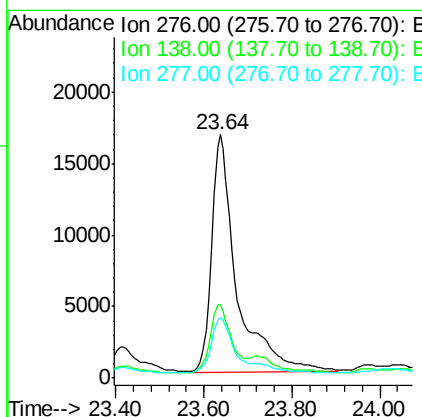
RT: 23.64 min Scan# 4164

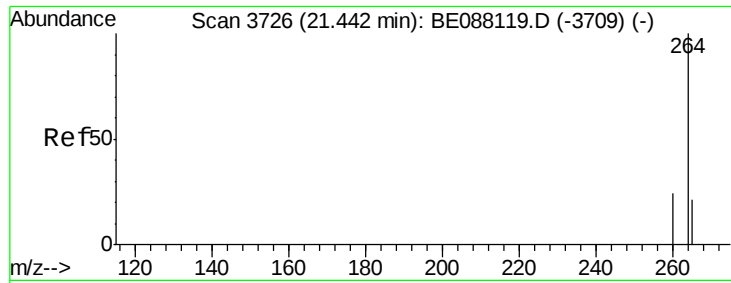
Delta R.T. 0.01 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41

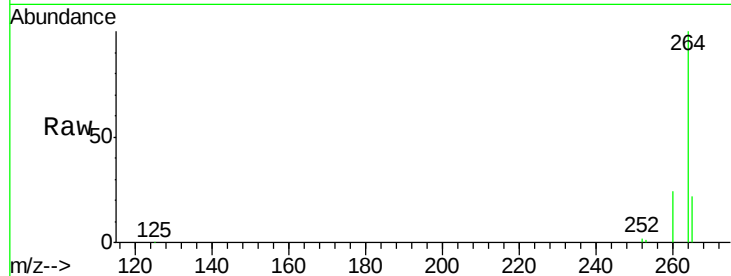
Tgt Ion:	276	Resp:	66046
Ion Ratio		Lower	Upper
276	100		
138	23.8	18.5	27.7
277	24.2	14.6	21.8#





#22
Perylene-d12
Concen: 5.00 ng
RT: 21.45 min Scan# 3728
Delta R.T. 0.00 min
Lab File: BE088186.D
Acq: 22 Oct 2014 17:41

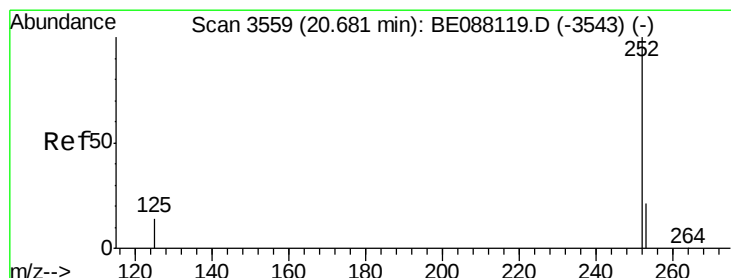
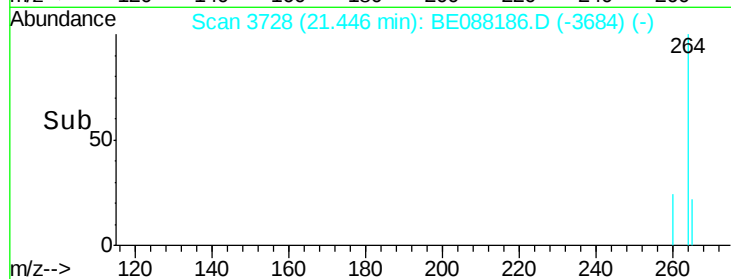
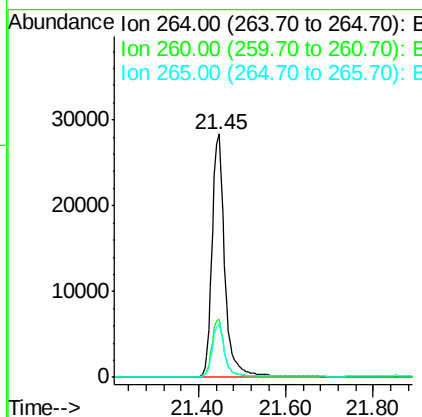
Instrument :
BNA_E
ClientSampleId :
YS19-SS01-1014DL



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.4
265	21.7	17.2	25.8

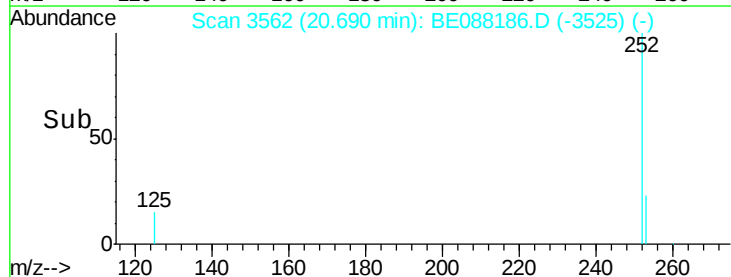
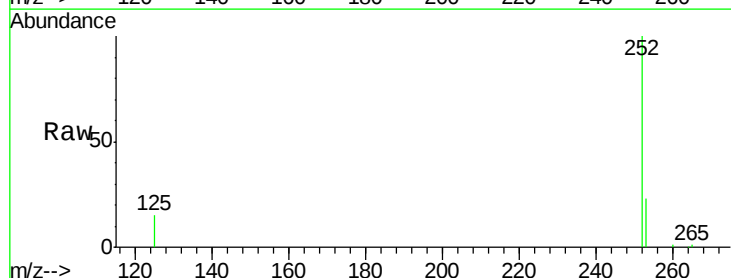
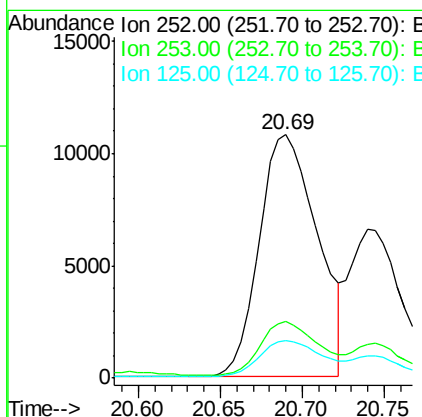
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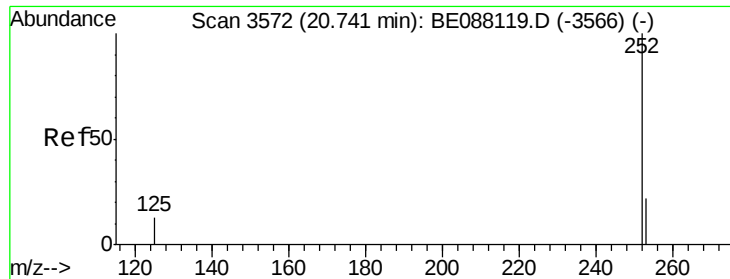
mohammad
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#23
Benzo(b)fluoranthene
Concen: 1.96 ng
RT: 20.69 min Scan# 3562
Delta R.T. 0.01 min
Lab File: BE088186.D
Acq: 22 Oct 2014 17:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.0
125	15.2	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 1.02 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088186.D

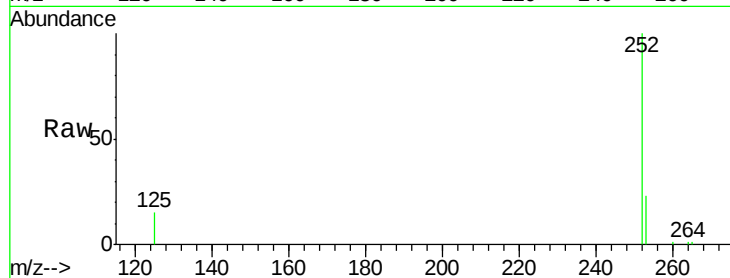
Acq: 22 Oct 2014 17:41

Instrument :

BNA_E

ClientSampleId :

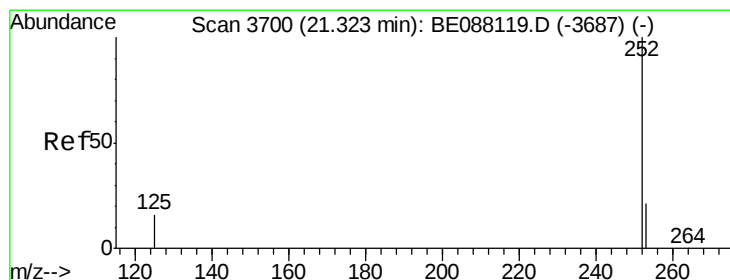
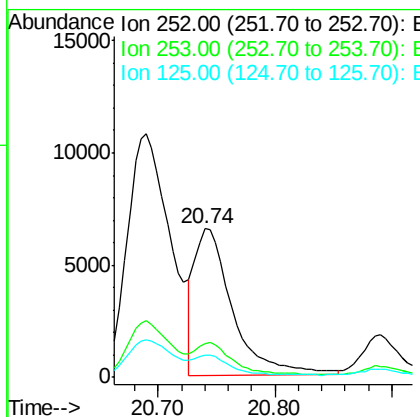
YS19-SS01-1014DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.6	26.4
125	15.1	11.5	17.3

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#25

Benzo(a)pyrene

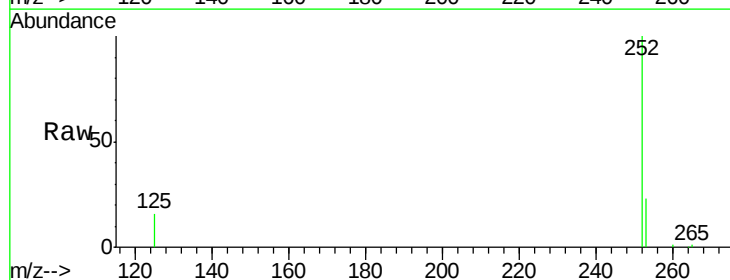
Concen: 1.68 ng

RT: 21.33 min Scan# 3702

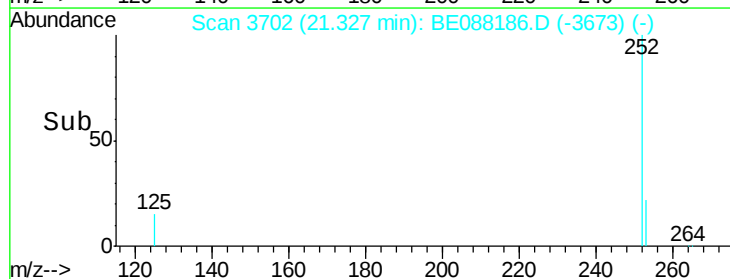
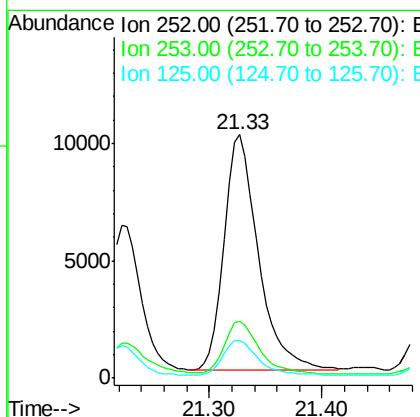
Delta R.T. 0.00 min

Lab File: BE088186.D

Acq: 22 Oct 2014 17:41



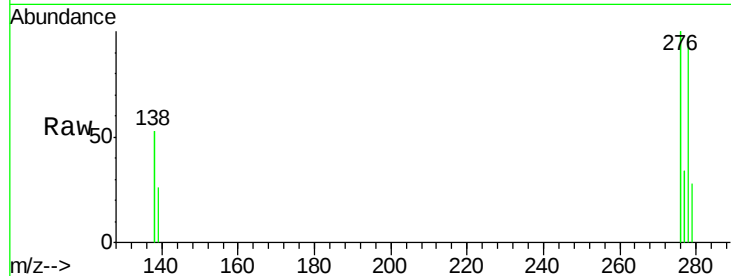
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	15.6	13.0	19.6





#26
Dibenzo(a,h)anthracene
Concen: 0.35 ng
RT: 23.73 min Scan# 4179
Delta R.T. 0.01 min
Lab File: BE088186.D
Acq: 22 Oct 2014 17:41

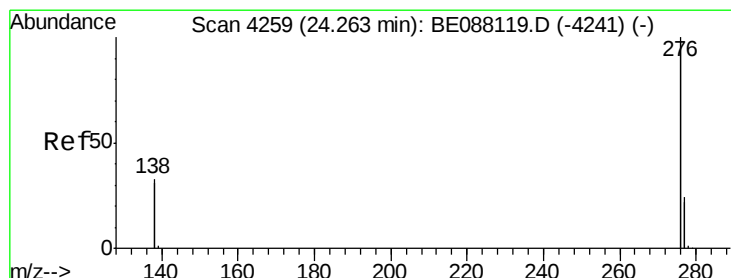
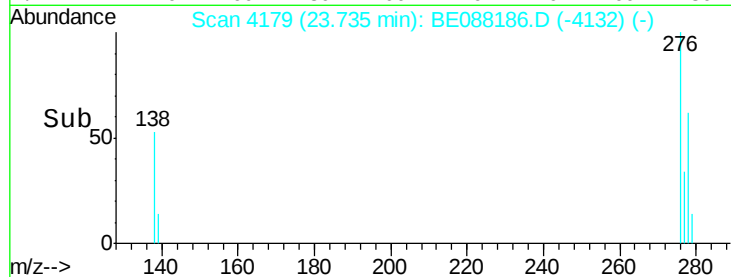
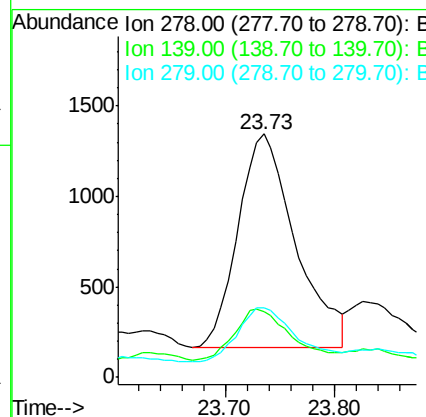
Instrument :
BNA_E
ClientSampleId :
YS19-SS01-1014DL



Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.8	20.9	31.3
279	28.4	19.8	29.8

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#27
Benzo(g,h,i)perylene
Concen: 1.18 ng
RT: 24.27 min Scan# 4261
Delta R.T. 0.01 min
Lab File: BE088186.D
Acq: 22 Oct 2014 17:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.2	28.8
138	32.2	26.6	40.0

