

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088239.D
 Acq On : 25 Oct 2014 8:55
 Operator : TP/JJ
 Sample : F4368-19
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB42-1014

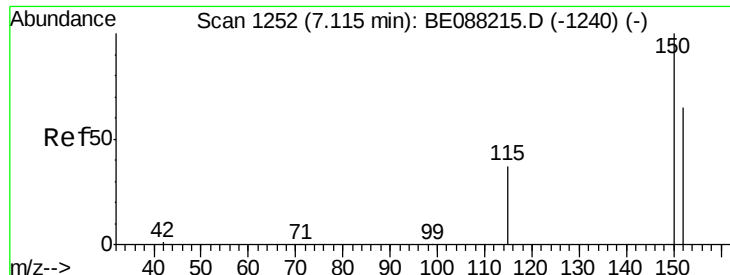
Manual Integrations
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Quant Time: Oct 27 14:41:54 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	26667	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	108877	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	57786	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	110788	5.00	ng	0.00
16) Chrysene-d12	18.35	240	53851	5.00	ng	0.00
22) Perylene-d12	21.40	264	44458	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	399453	48.55	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	517522	32.11	ng	0.00
18) Terphenyl-d14	16.13	244	440084	49.90	ng	0.02
Target Compounds						Qvalue
5) Naphthalene	8.70	128	1252	0.06	ng	# 92
6) 2-Methylnaphthalene	9.55	142	745	0.06	ng	95
9) Acenaphthylene	10.65	152	10158	0.12	ng	98
10) Acenaphthene	10.86	154	5308	0.39	ng	97
11) Fluorene	11.52	166	6202	0.44	ng	98
13) Phenanthrene	12.97	178	619744	5.80	ng	97
14) Anthracene	13.06	178	113818m	1.44	ng	
15) Fluoranthene	15.22	202	174294	10.75	ng	99
17) Pyrene	15.67	202	140622m	9.52	ng	
19) Benzo(a)anthracene	18.32	228	251562	5.93	ng	100
20) Chrysene	18.40	228	241298	5.01	ng	96
21) Indeno(1,2,3-cd)pyrene	23.57	276	116013	2.45	ng	# 74
23) Benzo(b)fluoranthene	20.64	252	61333	6.50	ng	99
24) Benzo(k)fluoranthene	20.70	252	26298	2.29	ng	98
25) Benzo(a)pyrene	21.28	252	41500	4.49	ng	98
26) Dibenzo(a,h)anthracene	23.67	278	5804	0.83	ng	95
27) Benzo(g,h,i)perylene	24.20	276	109414	3.07	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088239.D

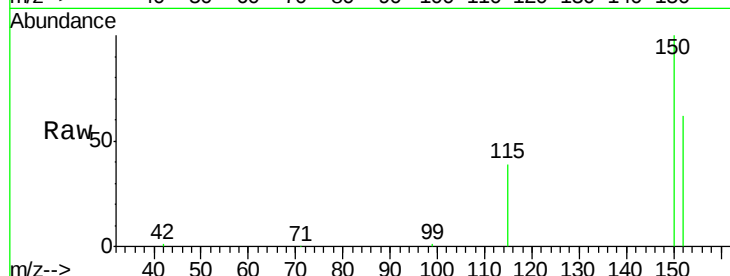
Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 26667

Ion Ratio Lower Upper

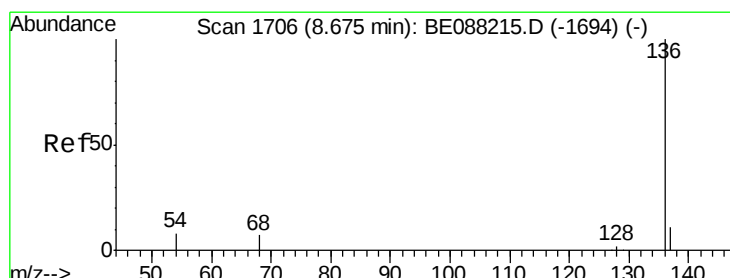
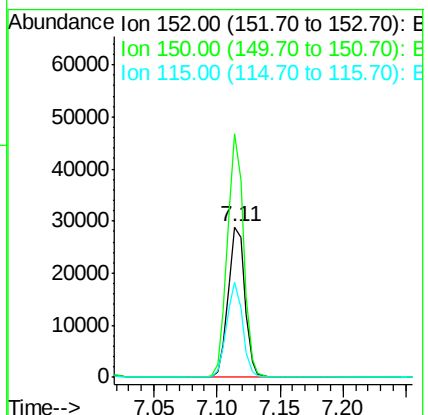
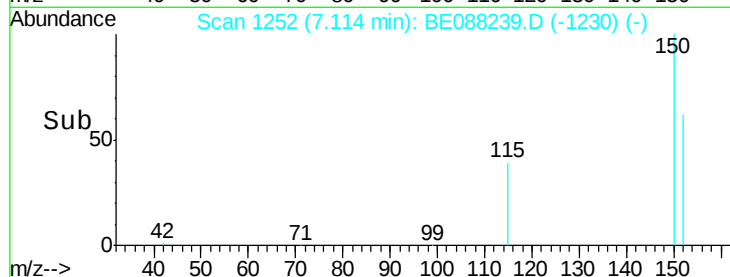
152 100

150 161.8 123.2 184.8

115 63.1 45.3 67.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

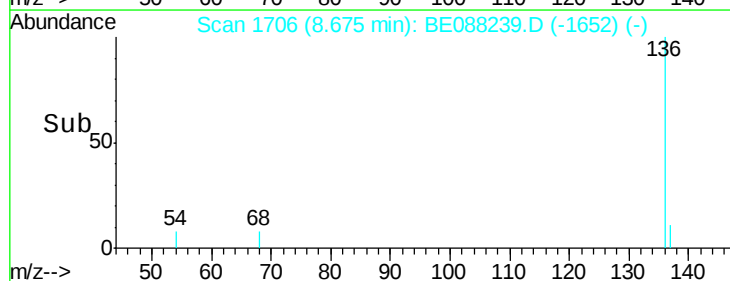
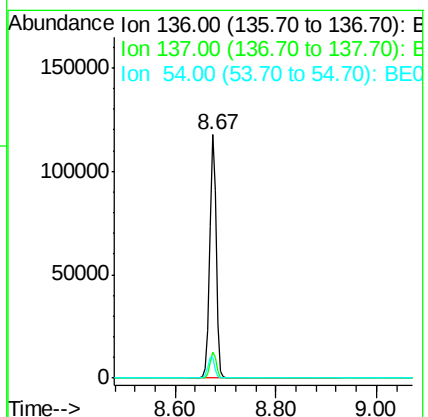
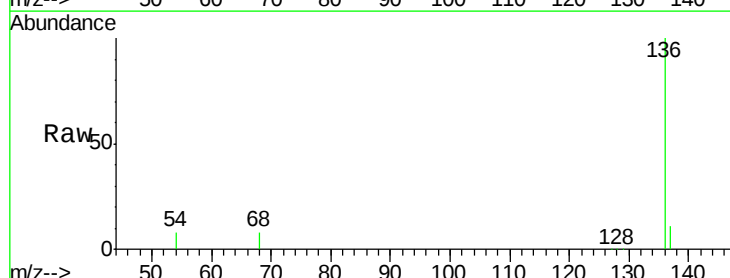
Tgt Ion:136 Resp: 108877

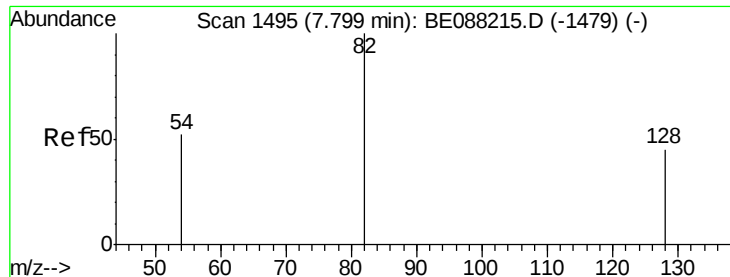
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 8.3 6.1 9.1





#4

Nitrobenzene-d5

Concen: 48.55 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088239.D

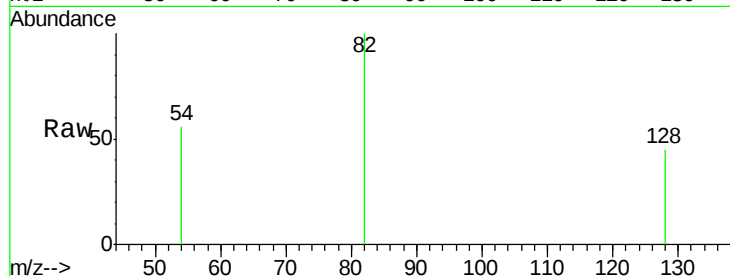
Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

YS19-SB42-1014



Tgt Ion: 82 Resp: 399453

Ion Ratio Lower Upper

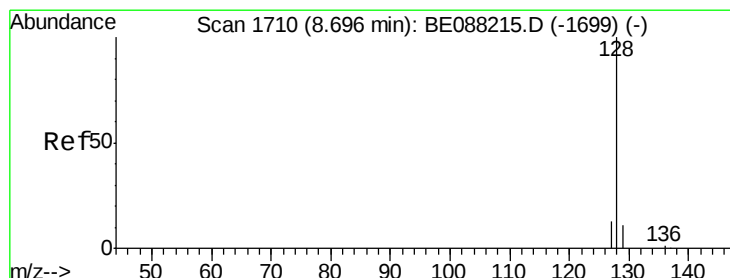
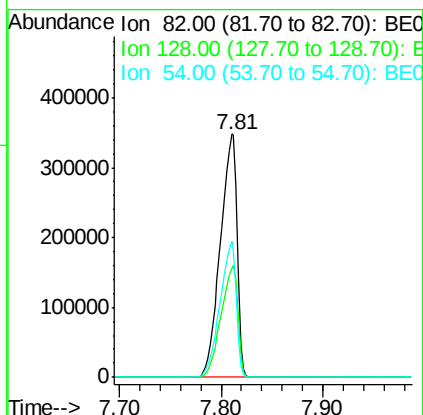
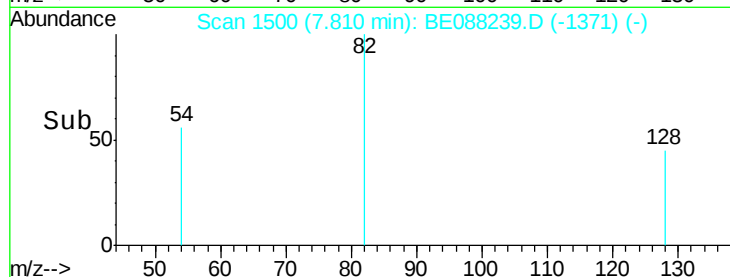
82 100

128 45.1 36.2 54.2

54 55.9 41.8 62.8

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#5

Naphthalene

Concen: 0.06 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

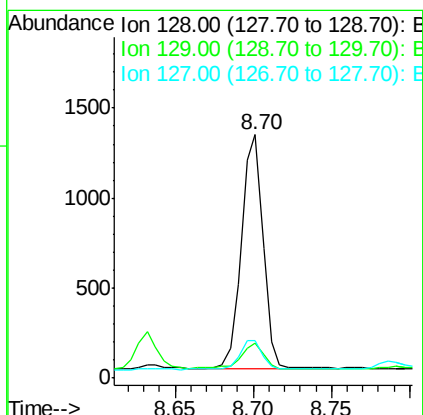
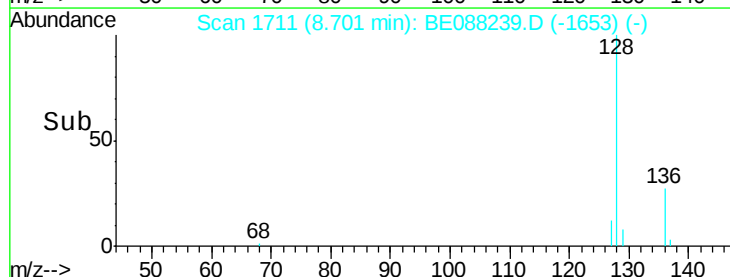
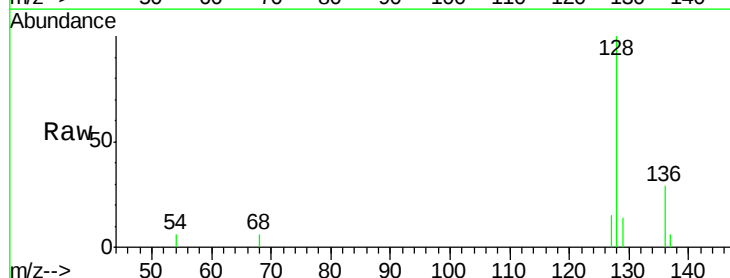
Tgt Ion: 128 Resp: 1252

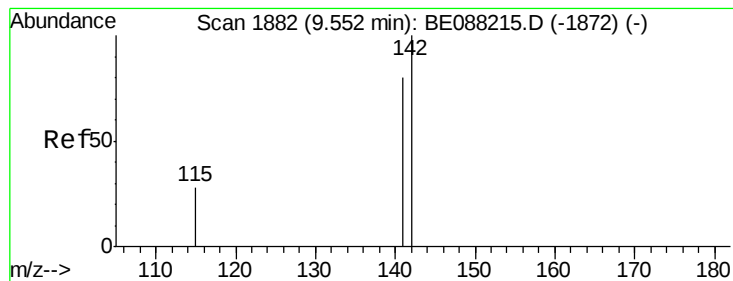
Ion Ratio Lower Upper

128 100

129 14.4 8.6 12.8#

127 15.4 10.4 15.6





#6

2-Methylnaphthalene

Concen: 0.06 ng

RT: 9.55 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

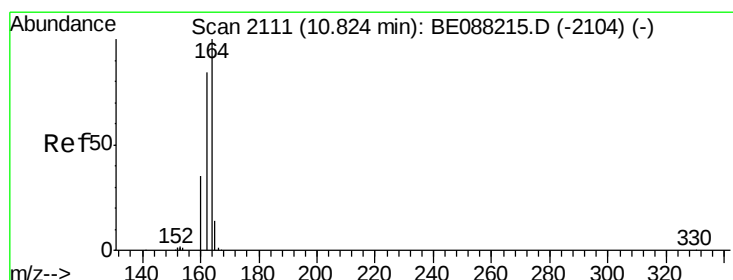
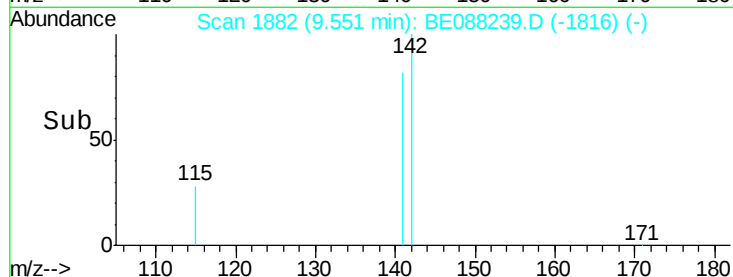
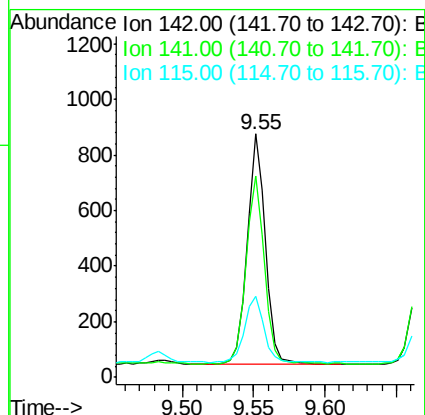
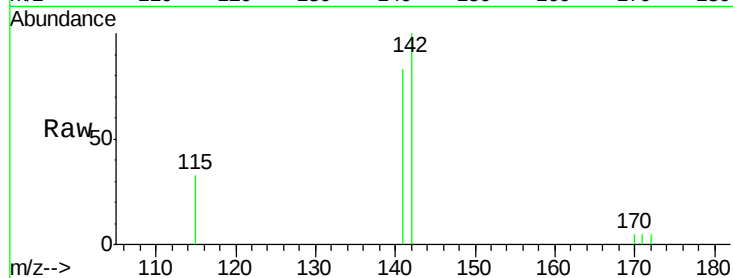
ClientSampleId :

YS19-SB42-1014

Tgt Ion:	142	Resp:	745
Ion Ratio	Lower	Upper	
142	100		
141	82.8	63.7	95.5
115	33.2	22.6	34.0

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#7

Acenaphthene-d10

Concen: 5.00 ng

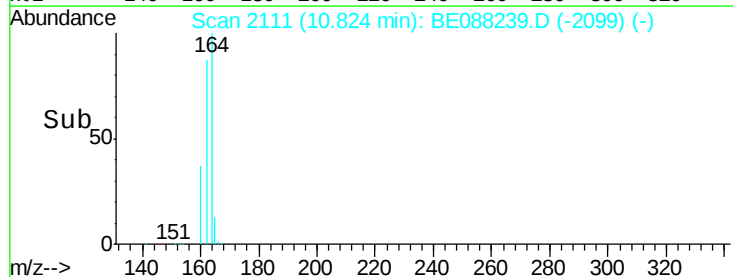
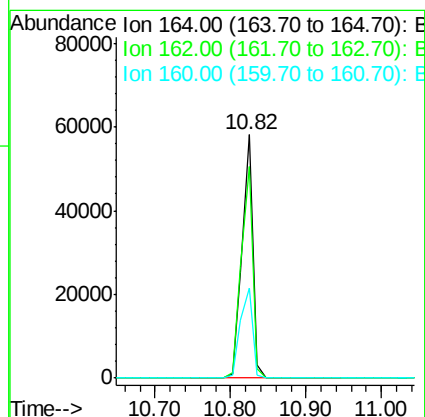
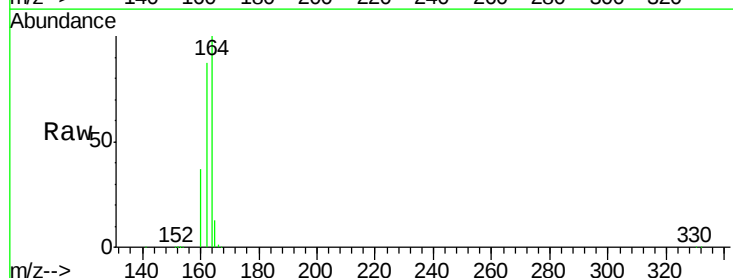
RT: 10.82 min Scan# 2111

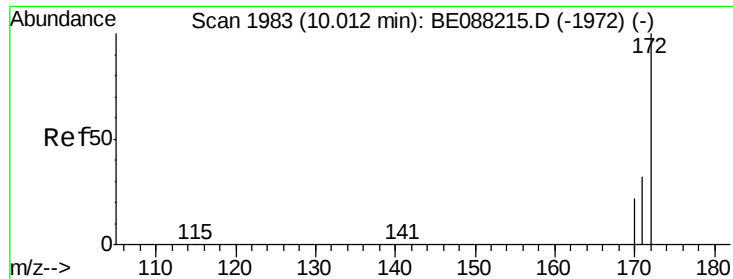
Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Tgt Ion:	164	Resp:	57786
Ion Ratio	Lower	Upper	
164	100		
162	86.7	67.4	101.0
160	36.8	27.7	41.5





#8

2-Fluorobiphenyl

Concen: 32.11 ng

RT: 10.02 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

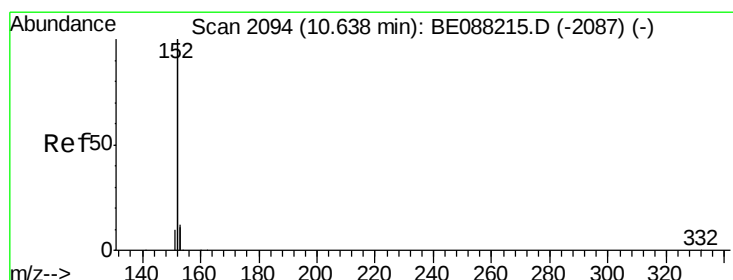
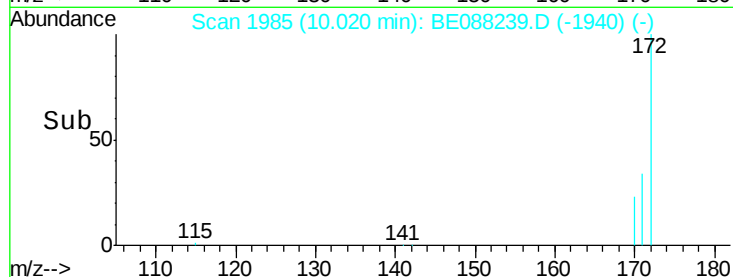
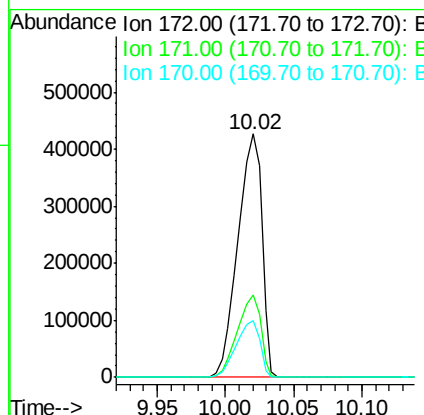
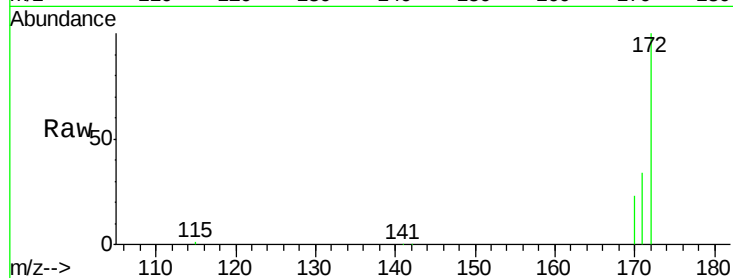
ClientSampleId :

YS19-SB42-1014

Tgt Ion:	172	Resp:	517522
Ion Ratio	Lower	Upper	
172	100		
171	33.8	25.8	38.6
170	23.4	17.4	26.0

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#9

Acenaphthylene

Concen: 0.12 ng

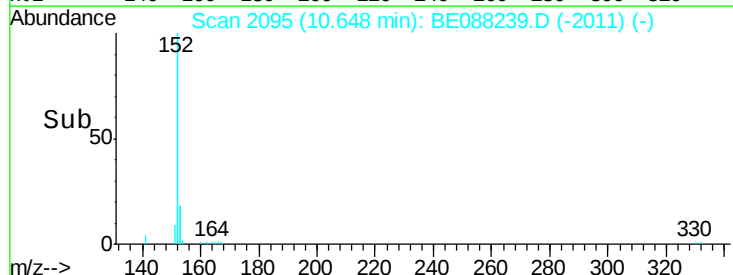
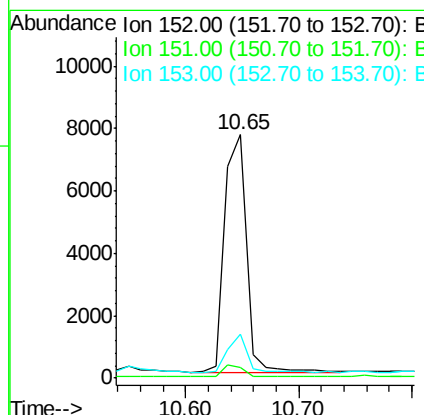
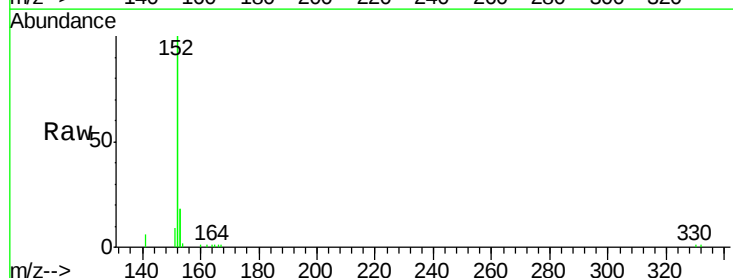
RT: 10.65 min Scan# 2095

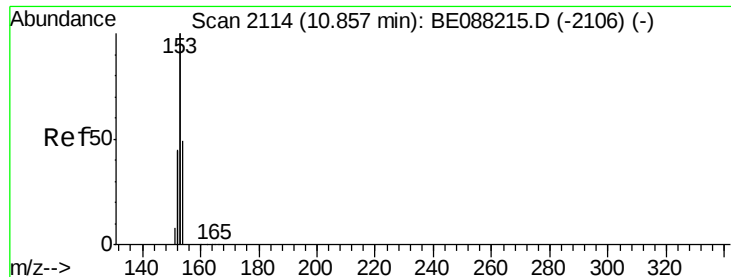
Delta R.T. 0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Tgt Ion:	152	Resp:	10158
Ion Ratio	Lower	Upper	
152	100		
151	4.8	3.7	5.5
153	13.9	10.3	15.5





#10

Acenaphthene

Concen: 0.39 ng

RT: 10.86 min Scan# 2114

Delta R.T. -0.00 min

Lab File: BE088239.D

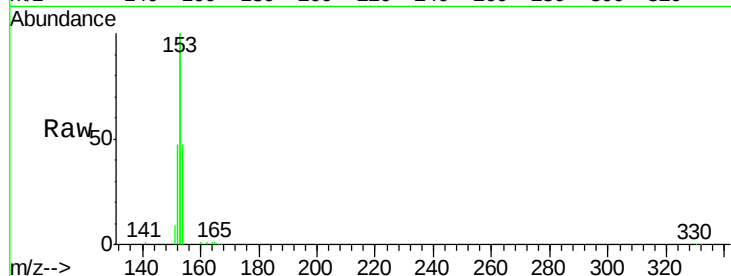
Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

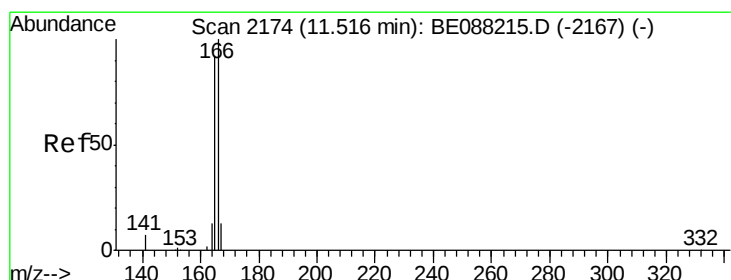
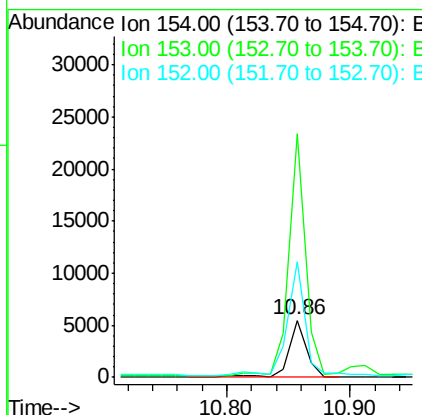
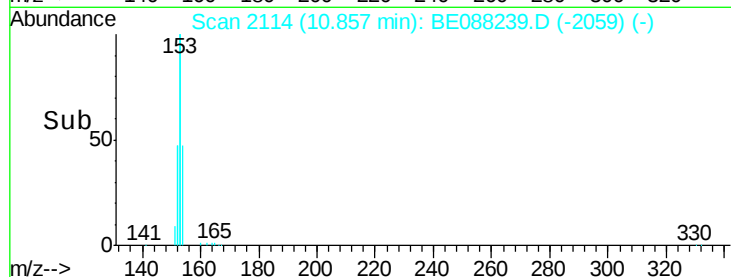
YS19-SB42-1014



Tgt Ion	Ratio	Lower	Upper
154	100		
153	399.4	326.0	489.0
152	198.2	155.6	233.4

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#11

Fluorene

Concen: 0.44 ng

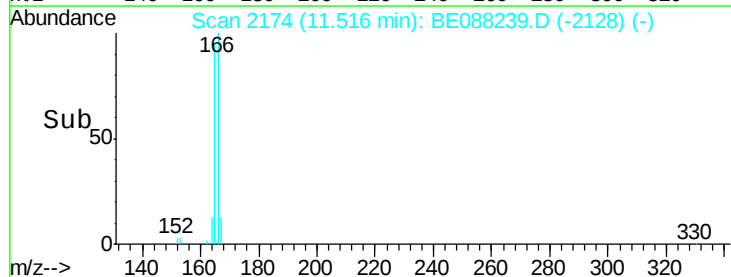
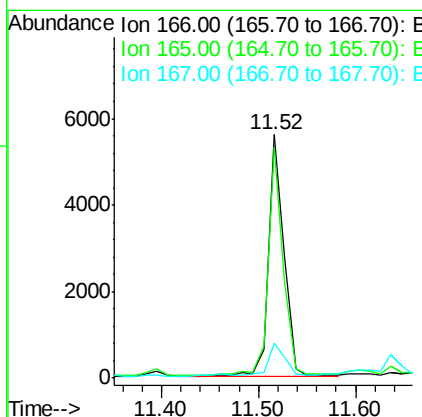
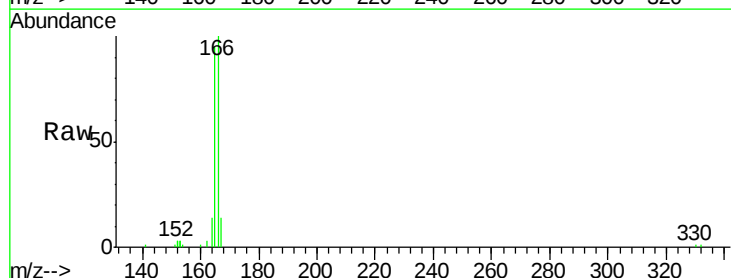
RT: 11.52 min Scan# 2174

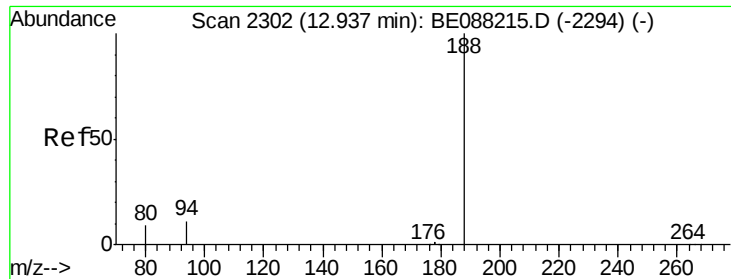
Delta R.T. -0.00 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Lower	Upper
166	100		
165	91.8	71.8	107.6
167	14.6	10.7	16.1





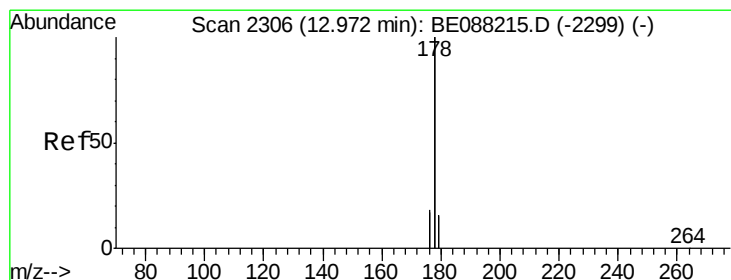
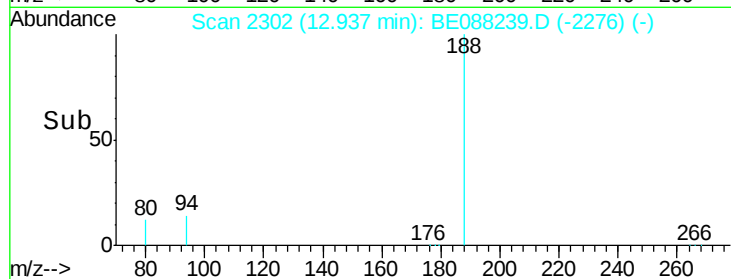
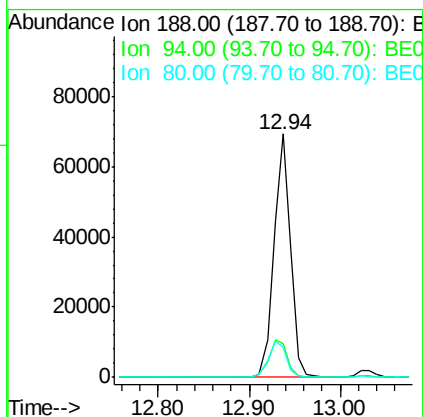
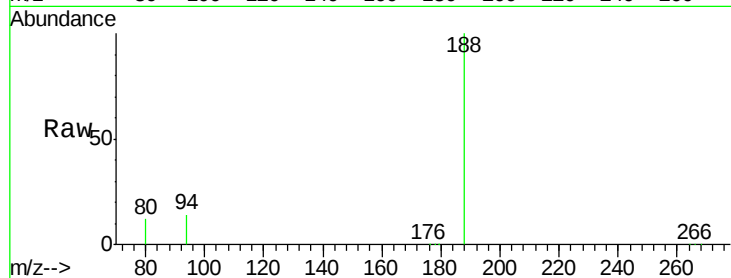
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.94 min Scan# 2302
Delta R.T. -0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	13.6	8.5	12.7#
80	12.3	7.4	11.0#

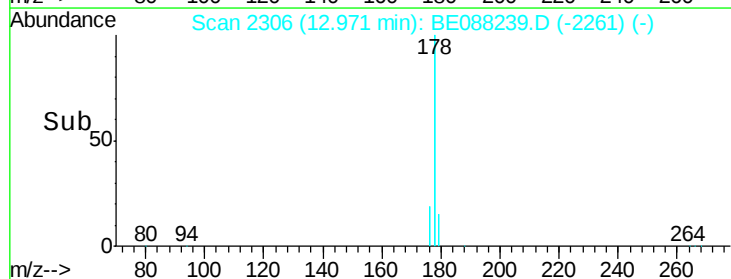
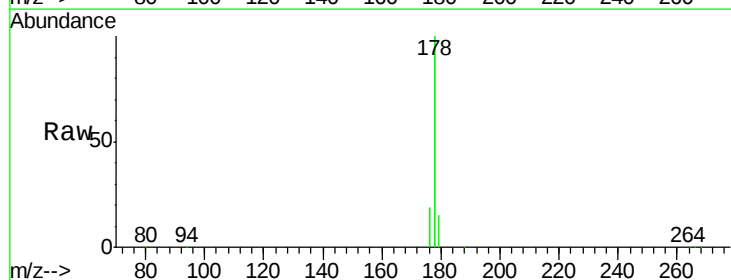
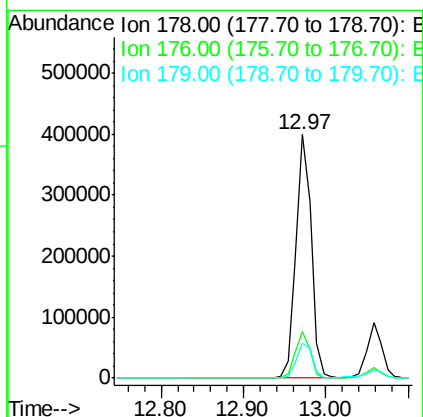
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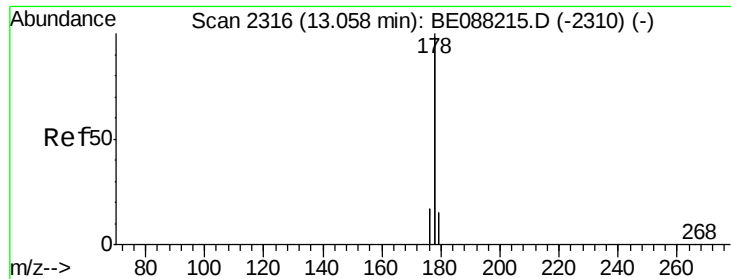
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#13
Phenanthrene
Concen: 5.80 ng
RT: 12.97 min Scan# 2306
Delta R.T. -0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.7	14.0	21.0
179	15.8	11.8	17.6





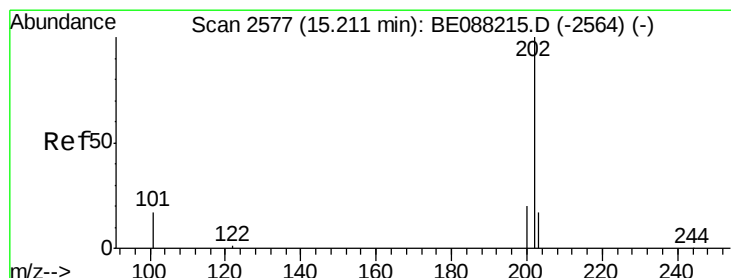
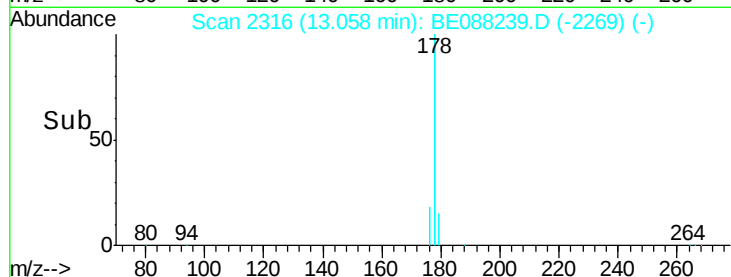
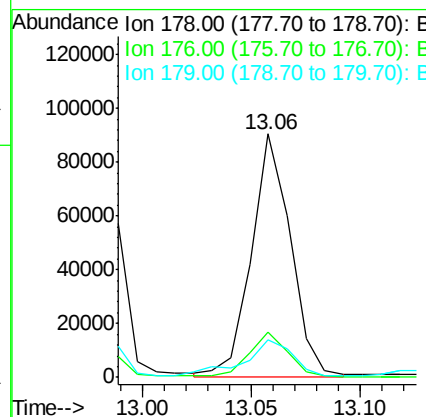
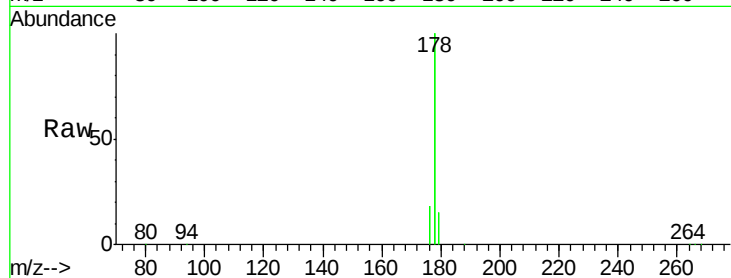
#14
 Anthracene
 Concen: 1.44 ng m
 RT: 13.06 min Scan# 2316
 Delta R.T. -0.00 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB42-1014

Tgt Ion	Ratio	Lower	Upper
178	100		
176	101.9	14.7	22.1#
179	86.0	12.3	18.5#

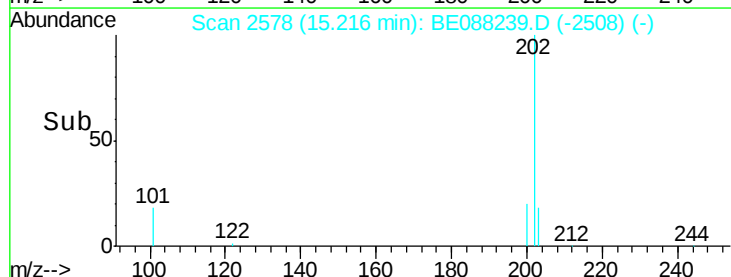
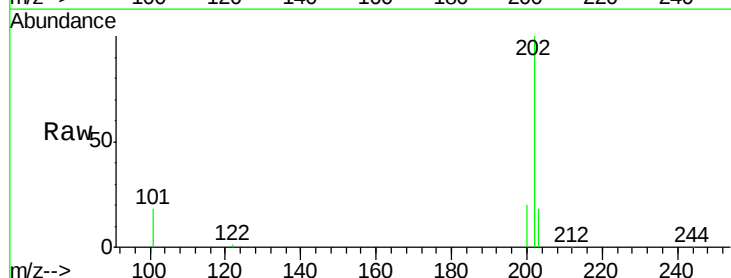
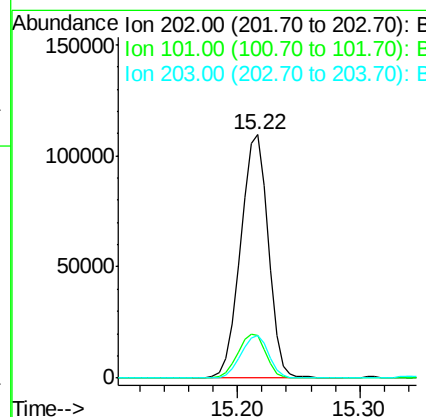
Manual Integrations
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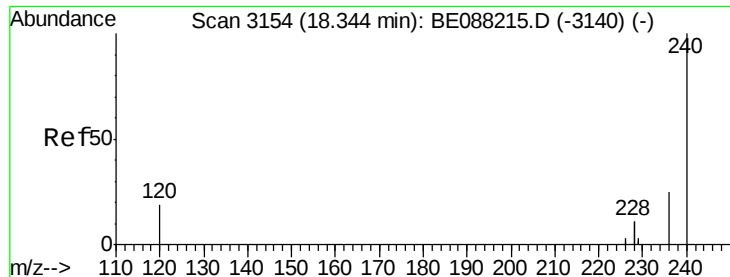
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#15
 Fluoranthene
 Concen: 10.75 ng
 RT: 15.22 min Scan# 2578
 Delta R.T. 0.01 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.5	14.4	21.6
203	17.4	13.4	20.2





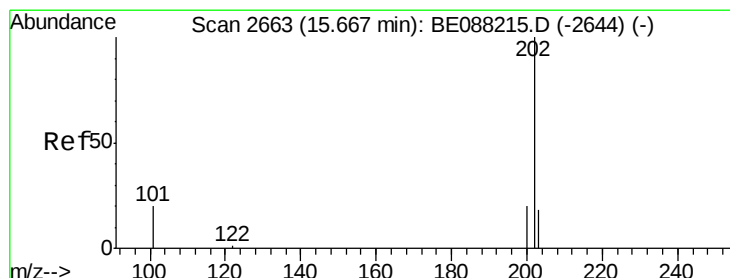
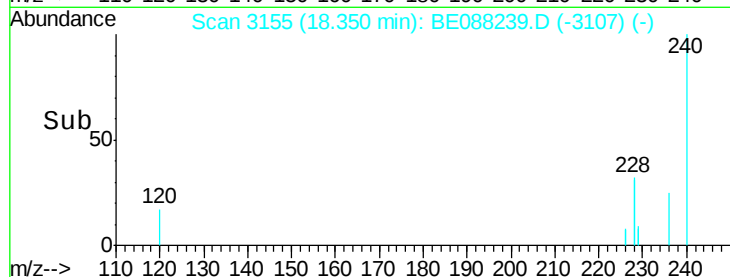
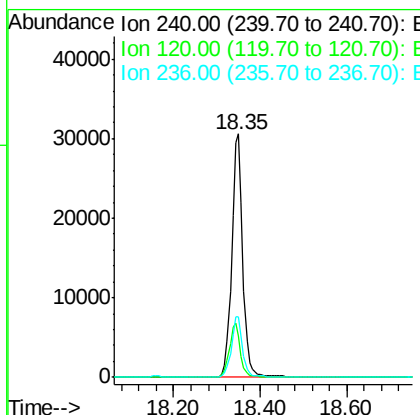
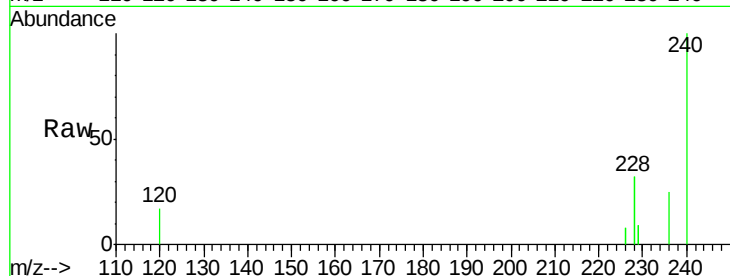
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.35 min Scan# 3155
Delta R.T. 0.01 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	16.9	15.1	22.7
236	24.8	20.1	30.1

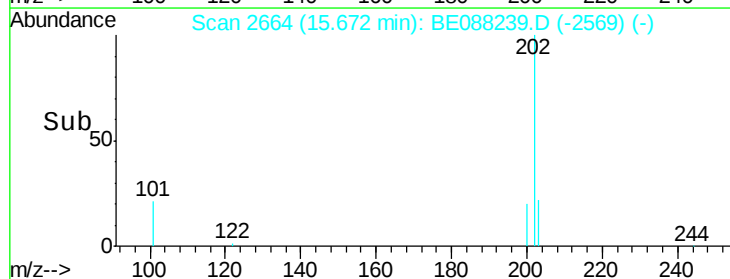
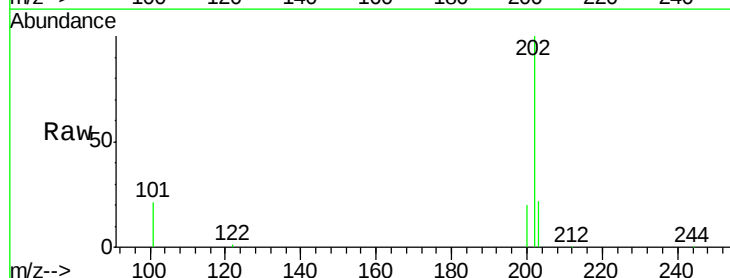
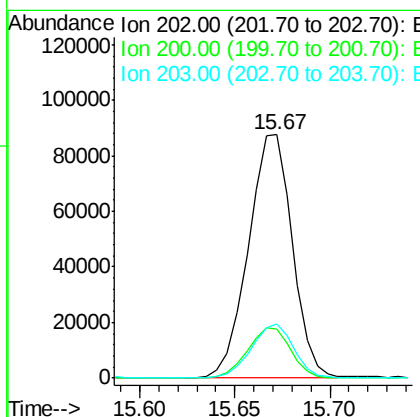
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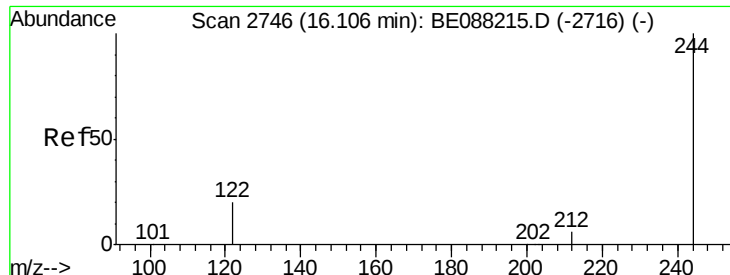
mohammad
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#17
Pyrene
Concen: 9.52 ng m
RT: 15.67 min Scan# 2664
Delta R.T. 0.01 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	24.7	16.2	24.2#
203	21.4	13.8	20.8#





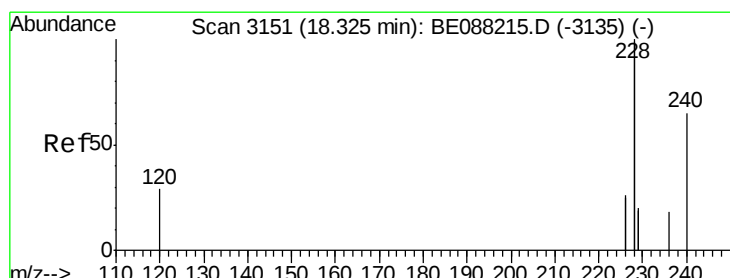
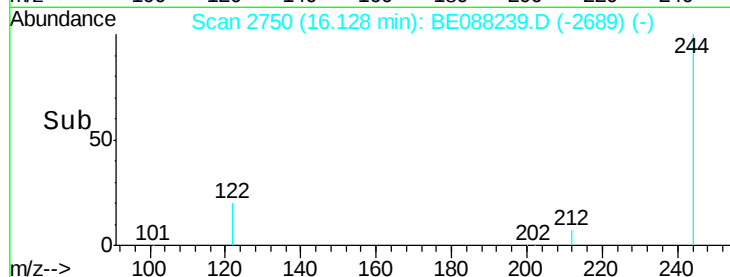
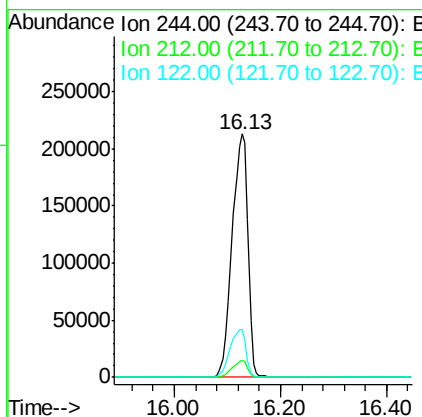
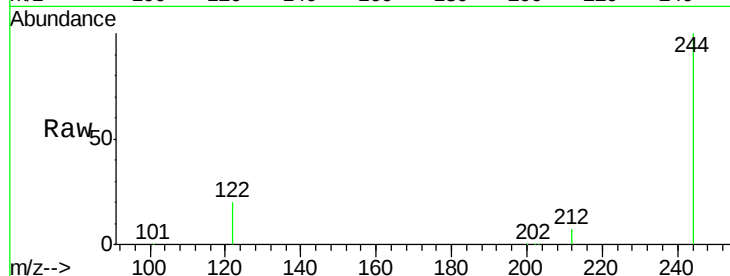
#18
 Terphenyl-d14
 Concen: 49.90 ng
 RT: 16.13 min Scan# 2750
 Delta R.T. 0.02 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB42-1014

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.8	5.4	8.2
122	19.7	16.7	25.1

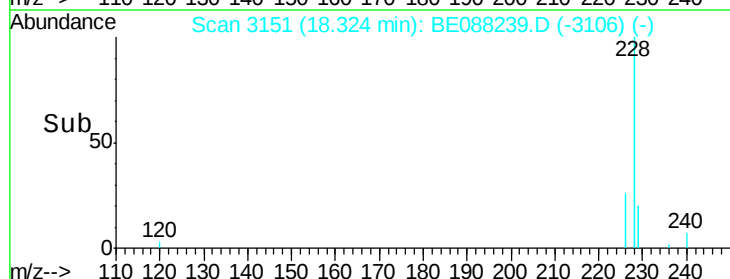
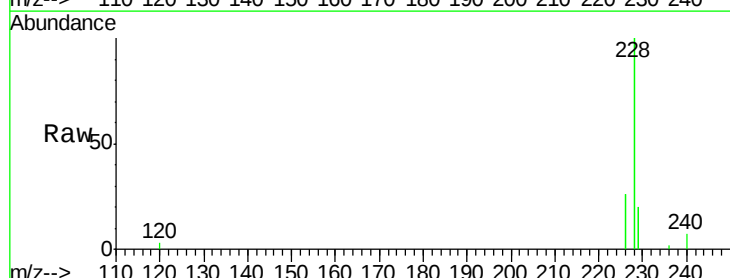
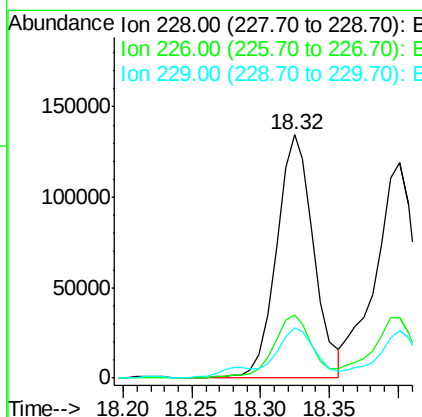
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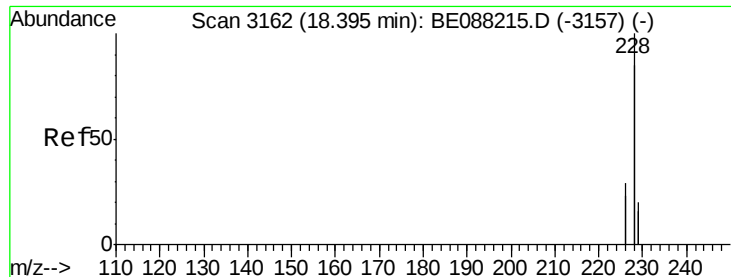
mohammad
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#19
 Benzo(a)anthracene
 Concen: 5.93 ng
 RT: 18.32 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: BE088239.D
 Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	25.7	20.5	30.7
229	20.4	16.1	24.1





#20

Chrysene

Concen: 5.01 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BE088239.D

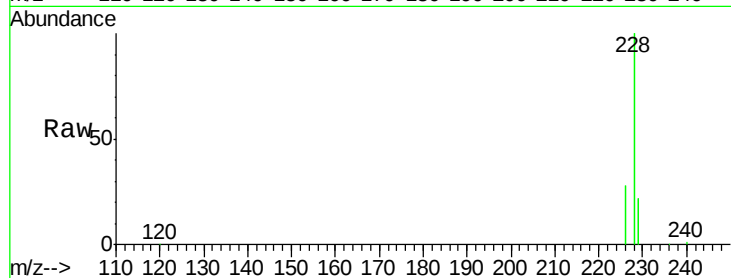
Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

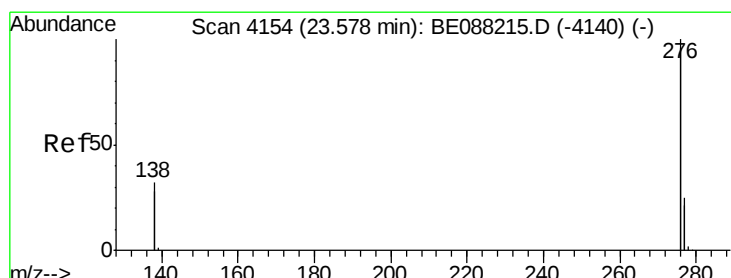
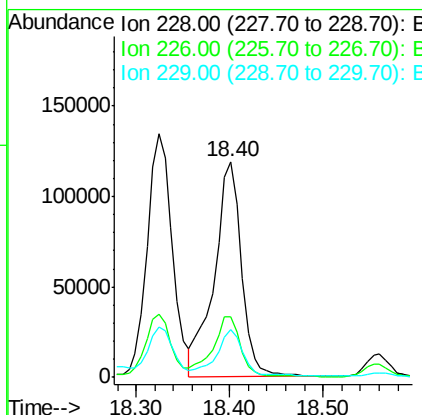
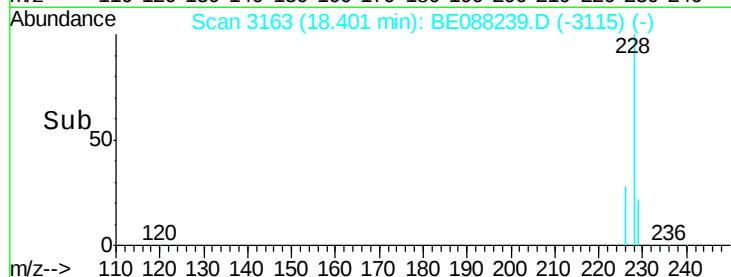
YS19-SB42-1014



Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	23.3	34.9
229	22.0	15.6	23.4

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#21

Indeno(1,2,3-cd)pyrene

Concen: 2.45 ng

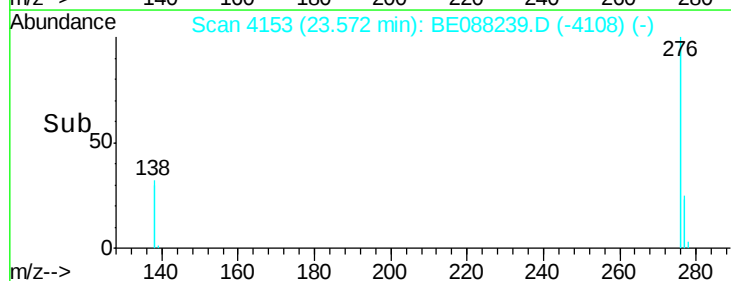
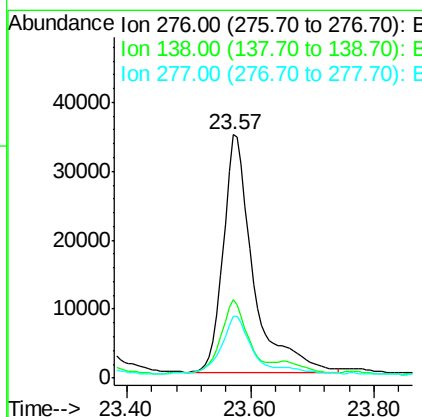
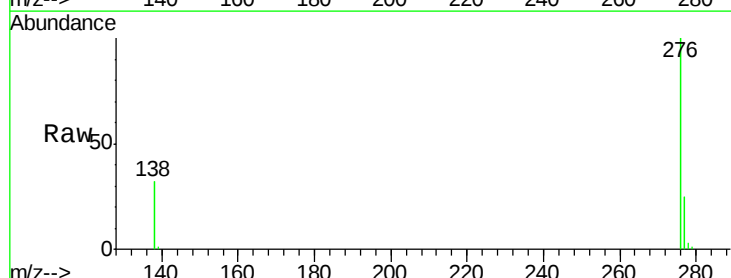
RT: 23.57 min Scan# 4153

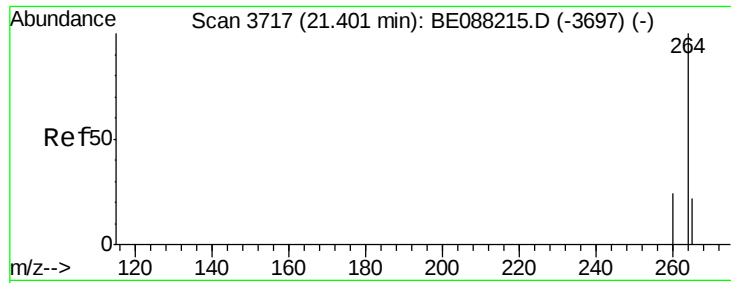
Delta R.T. -0.01 min

Lab File: BE088239.D

Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.3	13.9	20.9#
277	25.6	10.7	16.1#





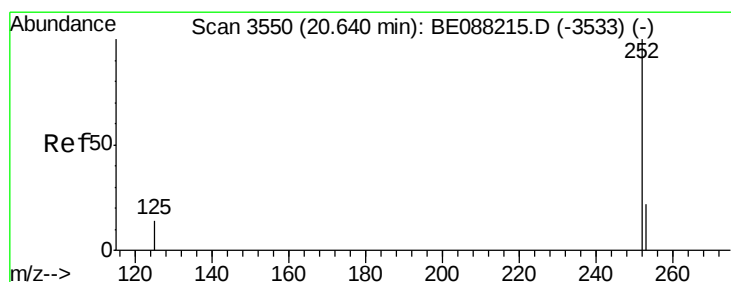
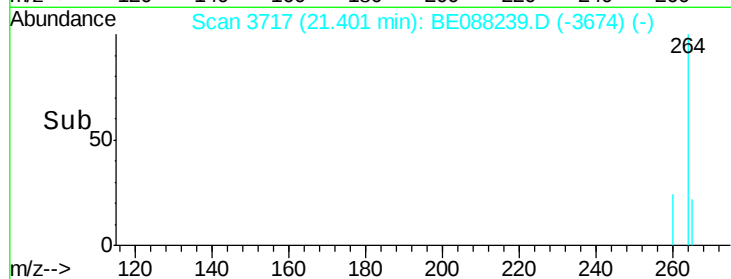
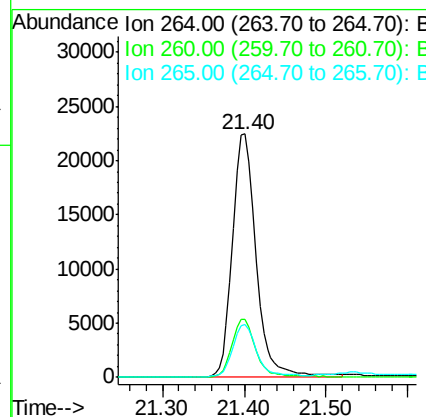
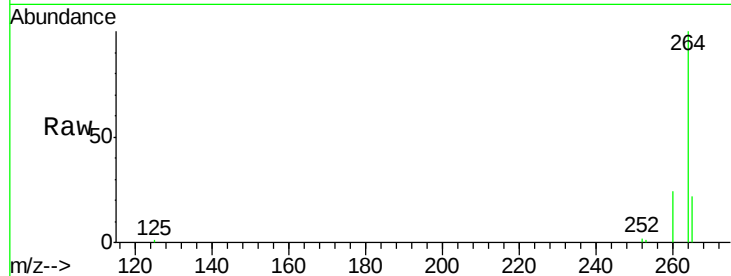
#22
Perylene-d12
Concen: 5.00 ng
RT: 21.40 min Scan# 3717
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.0	28.4
265	21.8	17.4	26.2

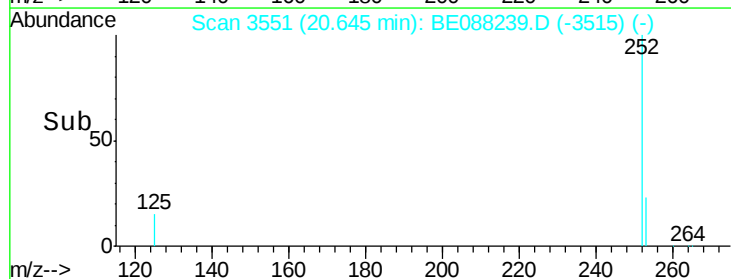
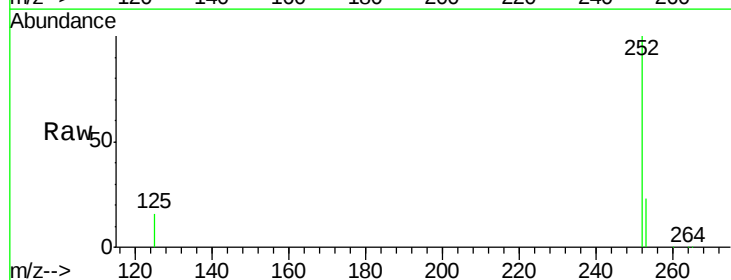
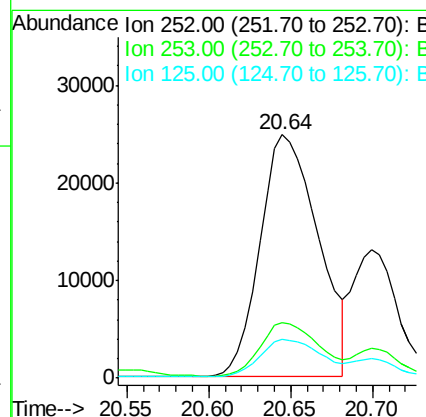
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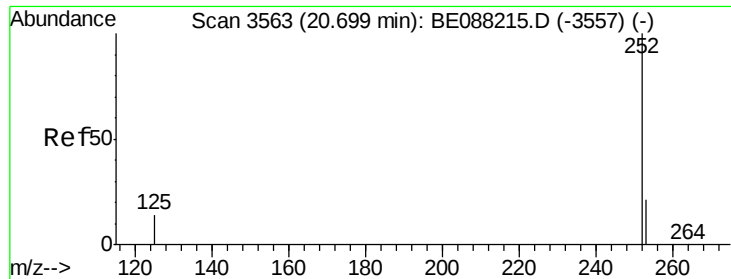
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#23
Benzo(b)fluoranthene
Concen: 6.50 ng
RT: 20.64 min Scan# 3551
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	15.9	12.2	18.2





#24

Benzo(k)fluoranthene

Concen: 2.29 ng

RT: 20.70 min Scan# 3563

Delta R.T. 0.00 min

Lab File: BE088239.D

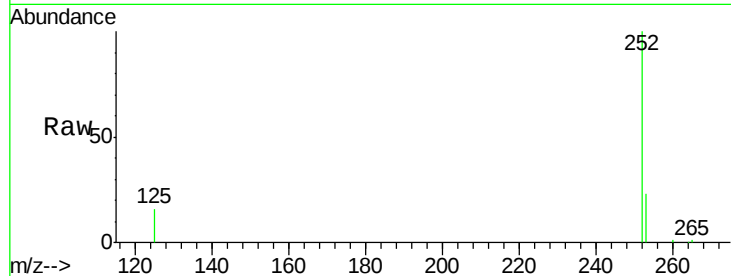
Acq: 25 Oct 2014 8:55

Instrument :

BNA_E

ClientSampleId :

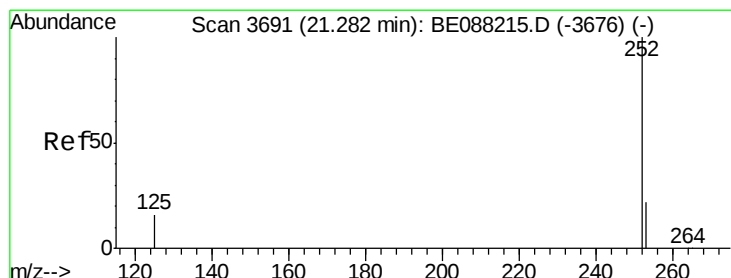
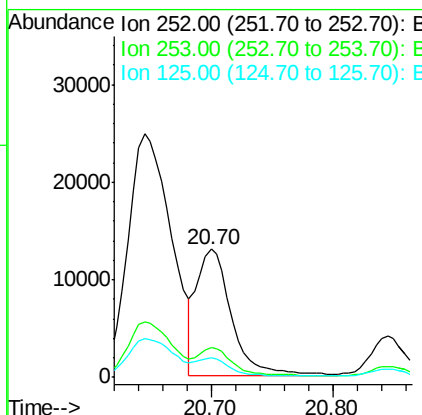
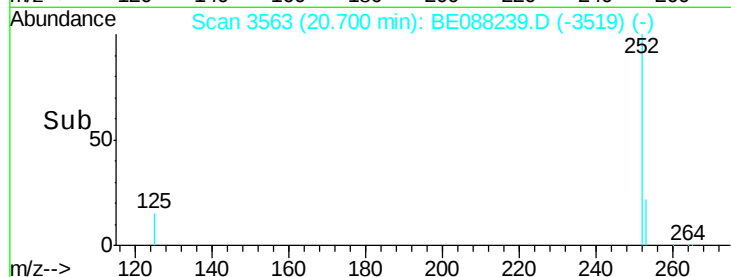
YS19-SB42-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.6	26.4
125	15.8	12.1	18.1

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#25

Benzo(a)pyrene

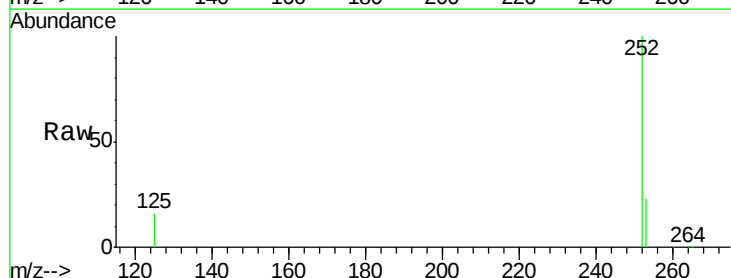
Concen: 4.49 ng

RT: 21.28 min Scan# 3691

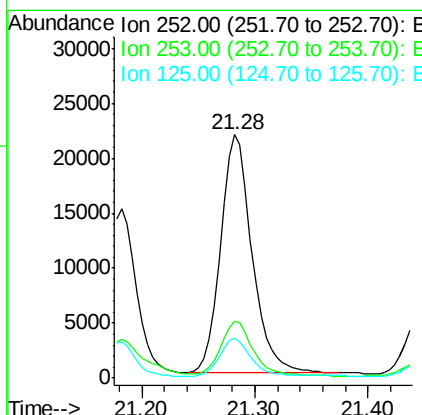
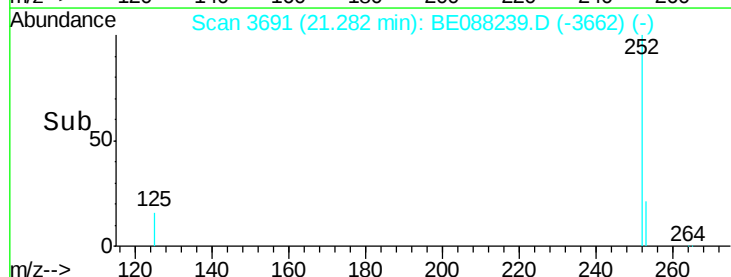
Delta R.T. 0.00 min

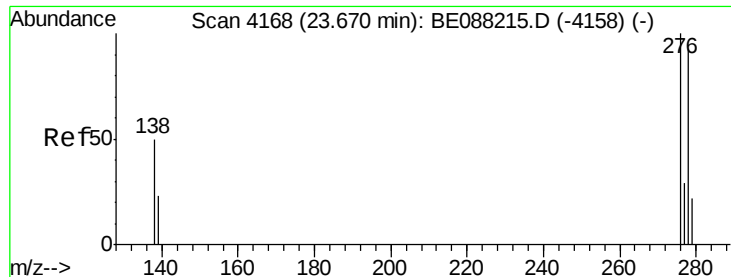
Lab File: BE088239.D

Acq: 25 Oct 2014 8:55



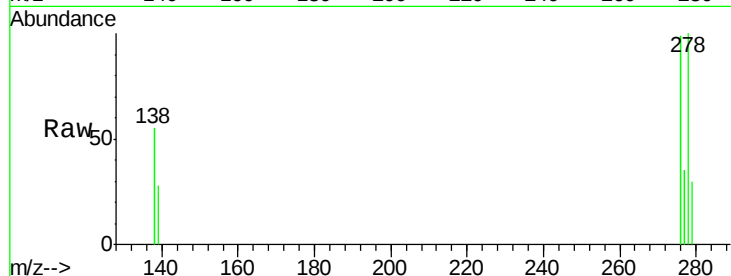
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	16.3	13.5	20.3





#26
Dibenzo(a,h)anthracene
Concen: 0.83 ng
RT: 23.67 min Scan# 4168
Delta R.T. 0.00 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

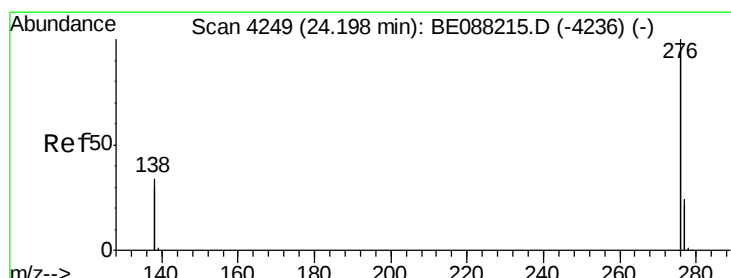
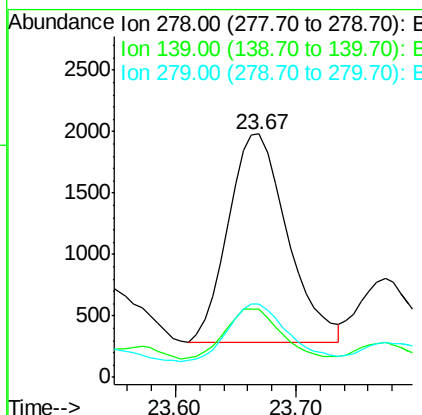
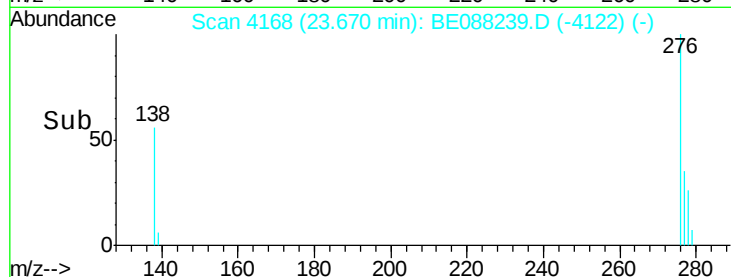
Instrument :
BNA_E
ClientSampleId :
YS19-SB42-1014



Tgt Ion: 278 Resp: 5804
Ion Ratio Lower Upper
278 100
139 27.9 22.1 33.1
279 30.0 20.2 30.2

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#27
Benzo(g,h,i)perylene
Concen: 3.07 ng
RT: 24.20 min Scan# 4250
Delta R.T. 0.01 min
Lab File: BE088239.D
Acq: 25 Oct 2014 8:55

Tgt Ion: 276 Resp: 109414
Ion Ratio Lower Upper
276 100
277 24.6 19.4 29.2
138 32.9 27.3 40.9

