

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088232.D
 Acq On : 25 Oct 2014 5:03
 Operator : TP/JJ
 Sample : F4368-21
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43P-1014

Manual Integrations
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mohammad
 10/28/2014 12:22:53 PM

Quant Time: Oct 27 14:07:29 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	28955	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	112069	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	62463	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	130235	5.00	ng	0.00
16) Chrysene-d12	18.34	240	69801	5.00	ng	0.00
22) Perylene-d12	21.40	264	52815	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	371167	43.84	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	509911	29.27	ng	0.00
18) Terphenyl-d14	16.13	244	473869	41.45	ng	0.02
Target Compounds						Qvalue
5) Naphthalene	8.70	128	1488	0.07	ng	94
6) 2-Methylnaphthalene	9.55	142	1902	0.14	ng	93
9) Acenaphthylene	10.64	152	20685	0.22	ng	98
10) Acenaphthene	10.86	154	3484	0.24	ng	91
11) Fluorene	11.52	166	4168	0.28	ng	98
13) Phenanthrene	13.06	178	28476	0.23	ng	98
14) Anthracene	13.06	178	28476	0.31	ng	100
15) Fluoranthene	15.20	202	6443	0.34	ng	99
17) Pyrene	15.67	202	6671	0.35	ng	99
19) Benzo(a)anthracene	18.32	228	19625	0.36	ng	98
20) Chrysene	18.40	228	20340	0.33	ng	98
21) Indeno(1,2,3-cd)pyrene	23.57	276	12697m	0.43	ng	
23) Benzo(b)fluoranthene	20.64	252	3569	0.47	ng	96
24) Benzo(k)fluoranthene	20.70	252	4666	0.34	ng	96
25) Benzo(a)pyrene	21.28	252	3287	0.46	ng	96
26) Dibenzo(a,h)anthracene	23.67	278	2553	0.44	ng	# 90
27) Benzo(g,h,i)perylene	24.19	276	13844	0.33	ng	93

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

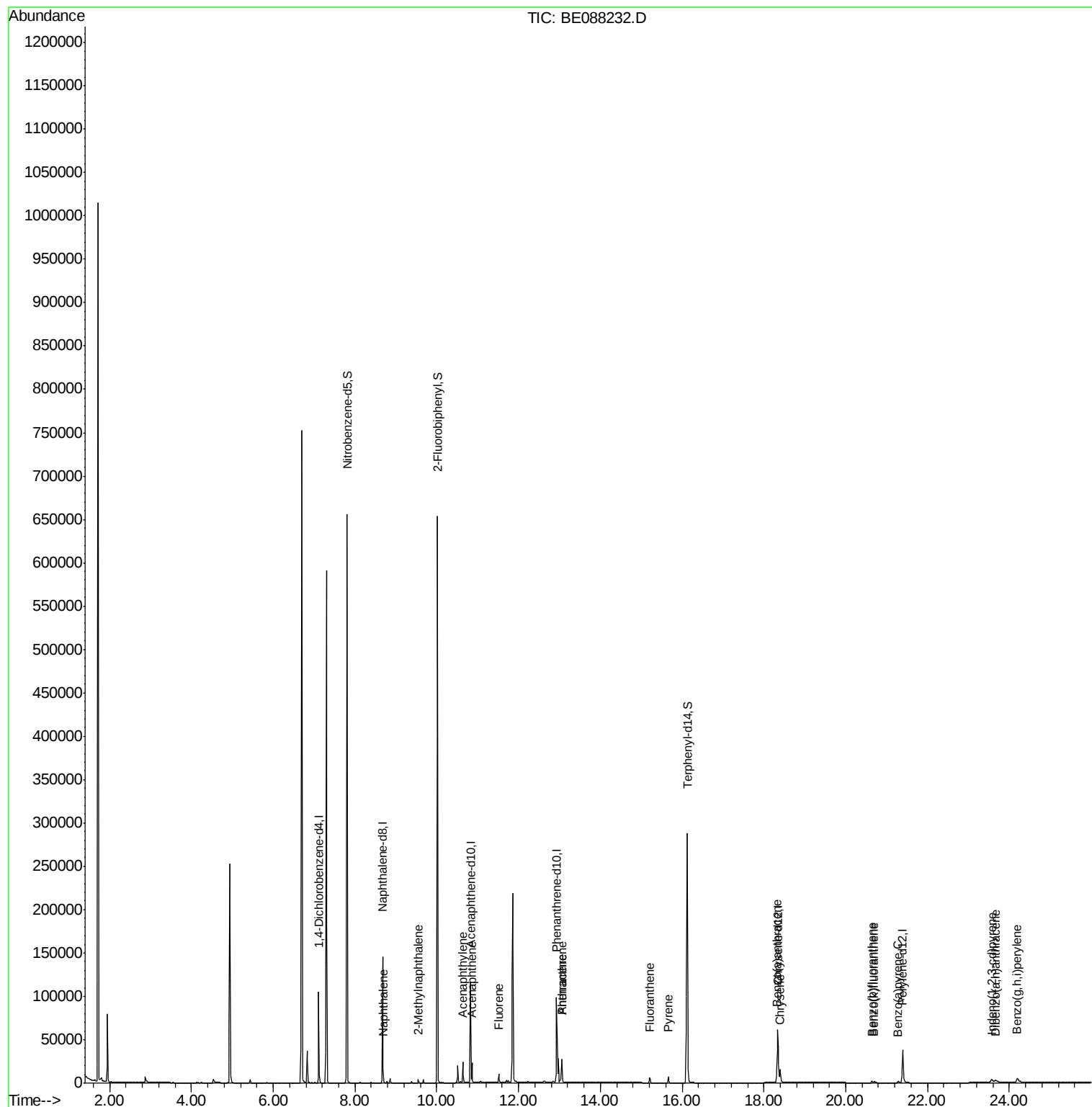
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
Data File : BE088232.D
Acq On : 25 Oct 2014 5:03
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Sample : F4368-21
Misc :
ALS Vial : 24 Sample Multiplier: 1

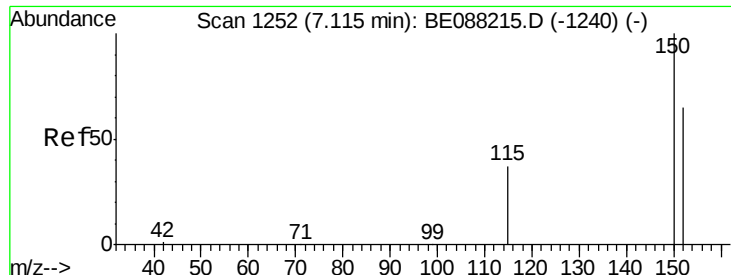
Instrument :
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Quant Time: Oct 27 14:07:29 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088232.D

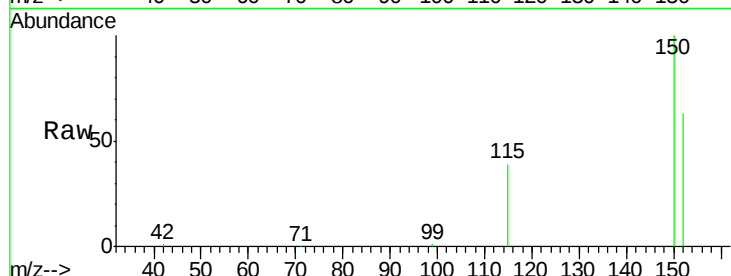
Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS43P-1014



Tgt Ion:152 Resp: 28955

Ion Ratio Lower Upper

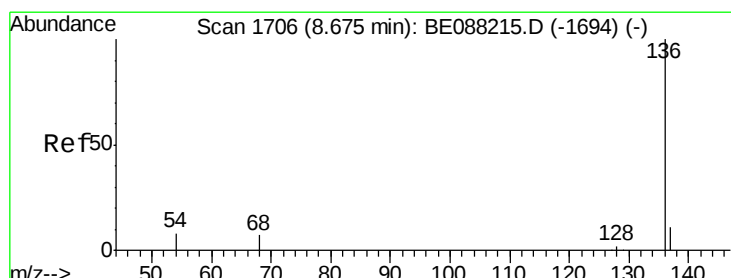
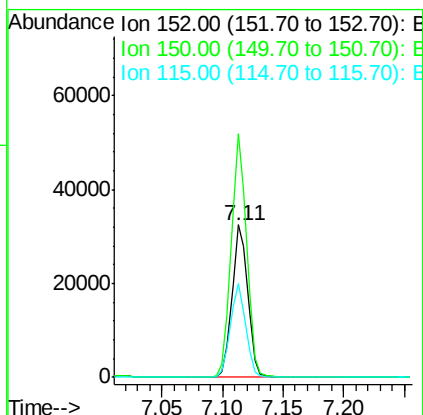
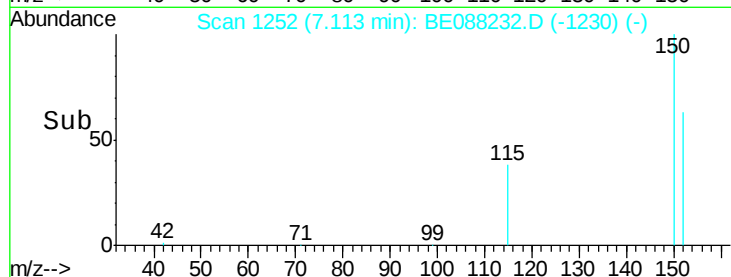
152 100

150 159.9 123.2 184.8

115 61.7 45.3 67.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

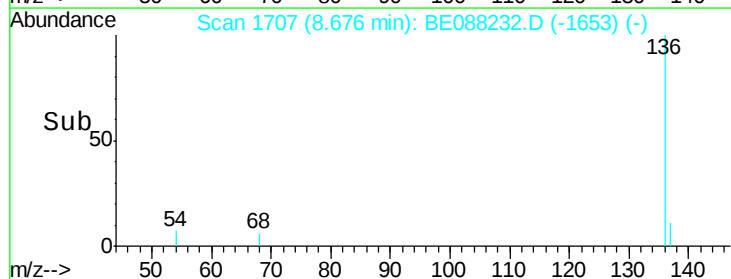
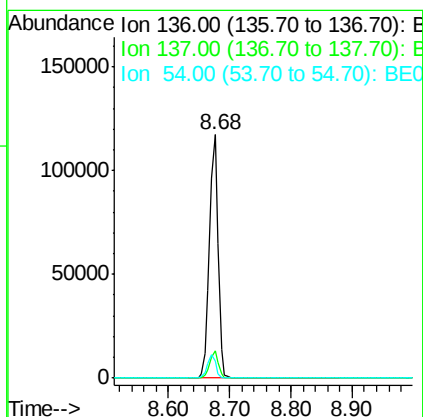
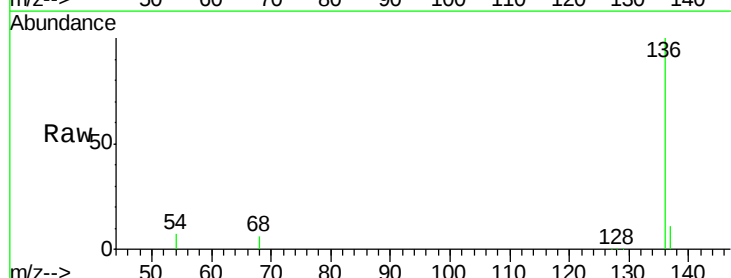
Tgt Ion:136 Resp: 112069

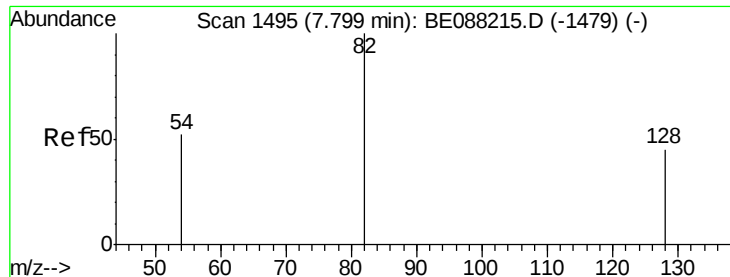
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 6.8 6.1 9.1





#4

Nitrobenzene-d5

Concen: 43.84 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088232.D

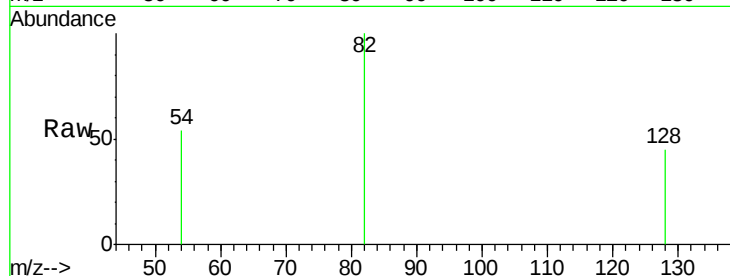
Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

ClientSampleId :

YS19-SS43P-1014



Tgt Ion: 82 Resp: 371167

Ion Ratio Lower Upper

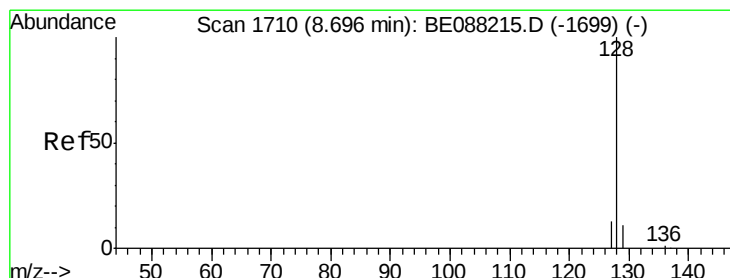
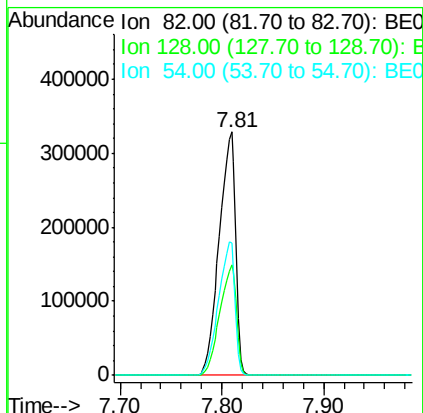
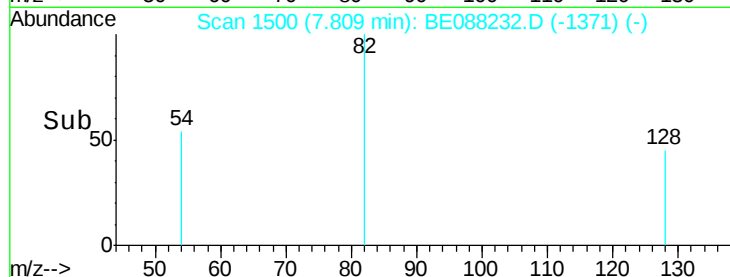
82 100

128 45.2 36.2 54.2

54 54.3 41.8 62.8

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#5

Naphthalene

Concen: 0.07 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

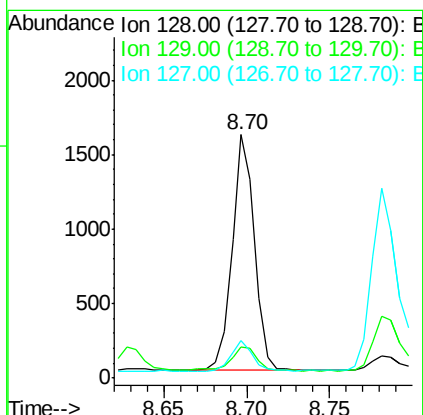
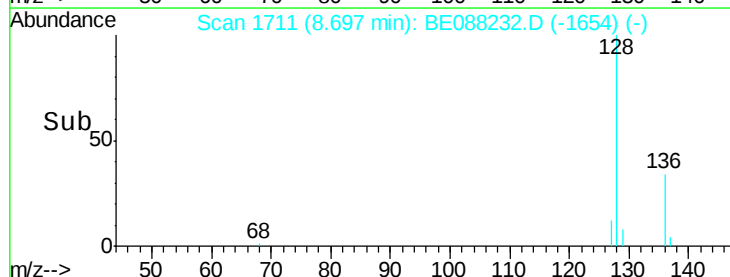
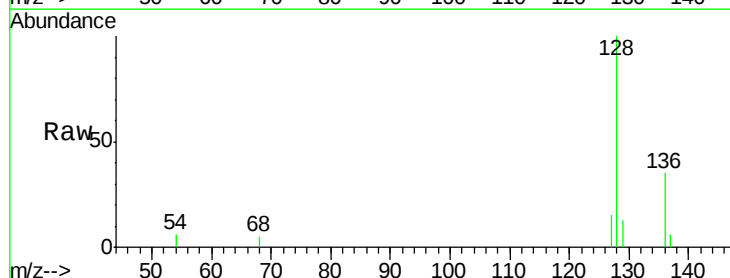
Tgt Ion: 128 Resp: 1488

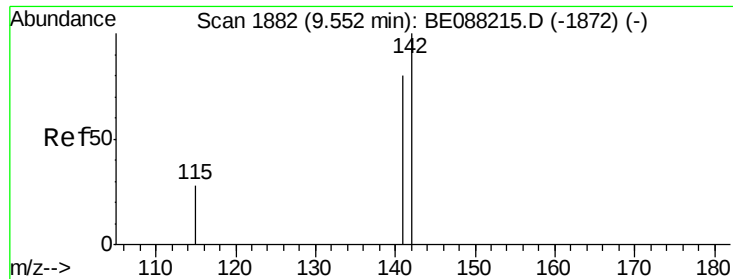
Ion Ratio Lower Upper

128 100

129 12.7 8.6 12.8

127 15.3 10.4 15.6





#6

2-Methylnaphthalene

Concen: 0.14 ng

RT: 9.55 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

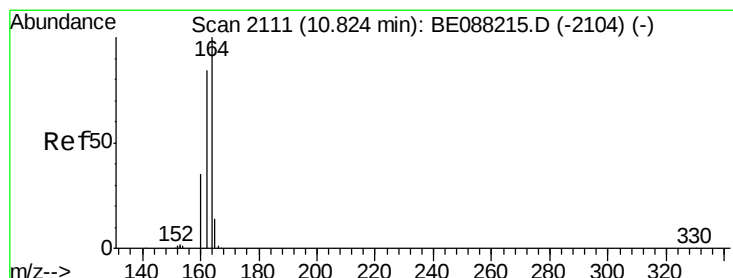
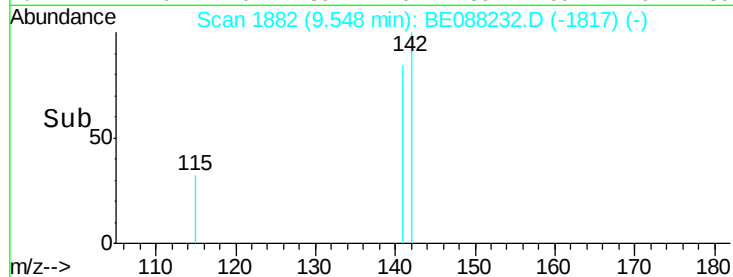
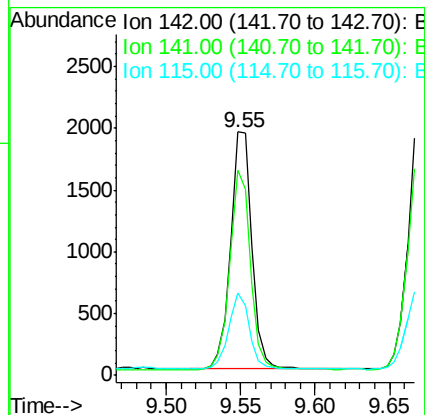
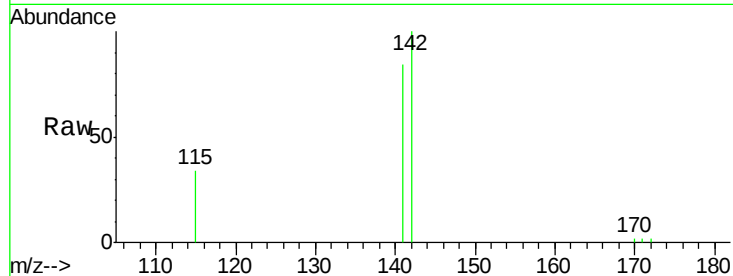
ClientSampleId :

YS19-SS43P-1014

Tgt Ion:	142	Resp:	1902
Ion Ratio	Lower	Upper	
142	100		
141	84.2	63.7	95.5
115	33.8	22.6	34.0

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#7

Acenaphthene-d10

Concen: 5.00 ng

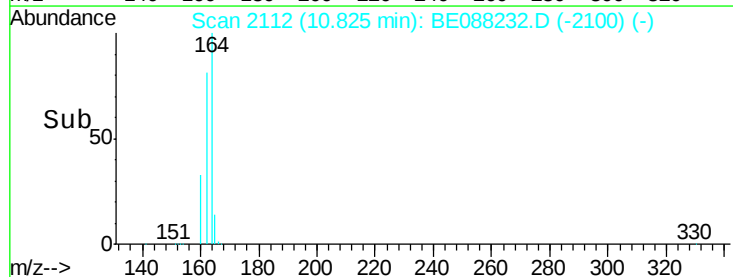
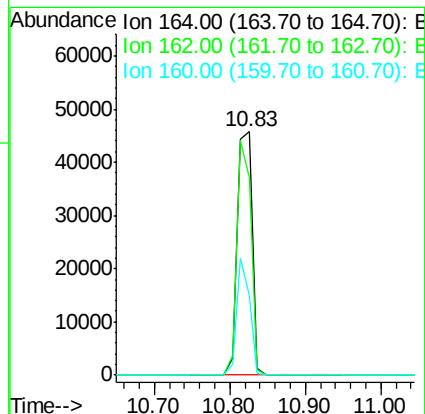
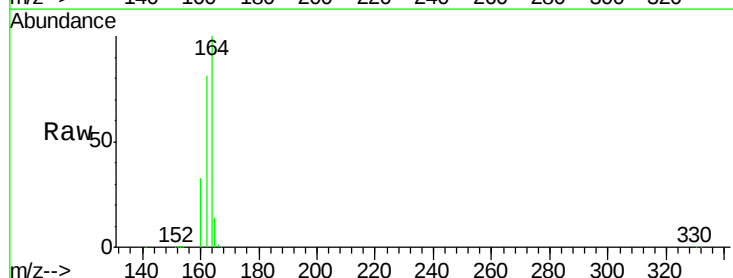
RT: 10.83 min Scan# 2112

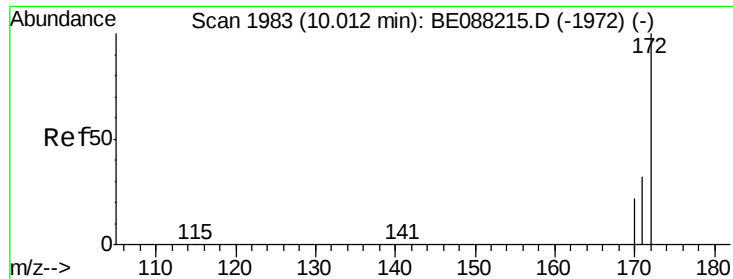
Delta R.T. 0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	164	Resp:	62463
Ion Ratio	Lower	Upper	
164	100		
162	81.1	67.4	101.0
160	32.6	27.7	41.5





#8

2-Fluorobiphenyl

Concen: 29.27 ng

RT: 10.02 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

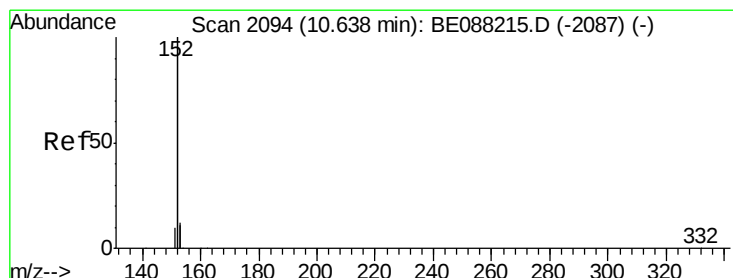
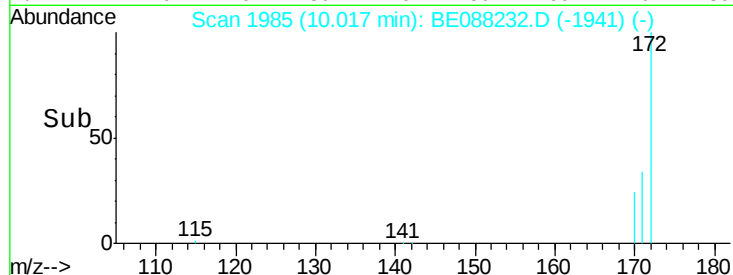
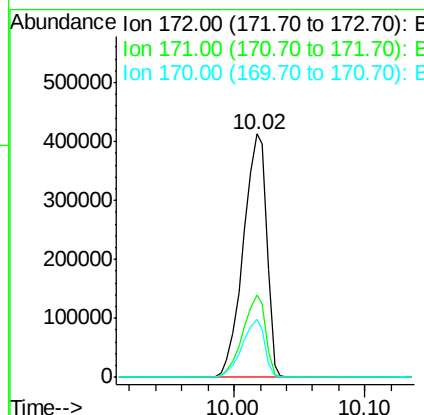
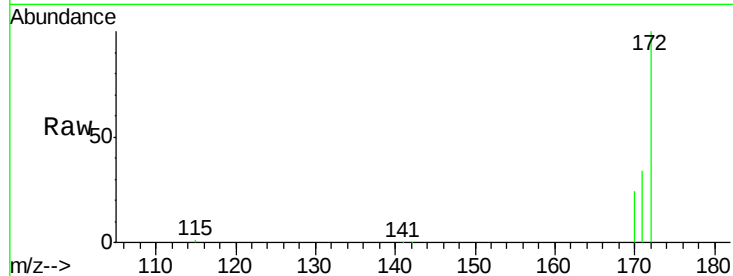
ClientSampleId :

YS19-SS43P-1014

Tgt Ion:	172	Resp:	509911
Ion Ratio		Lower	Upper
172	100		
171	33.9	25.8	38.6
170	23.7	17.4	26.0

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#9

Acenaphthylene

Concen: 0.22 ng

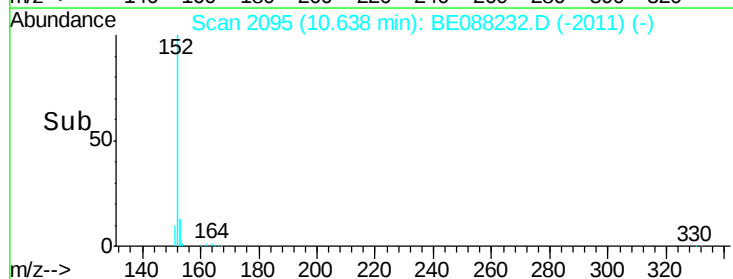
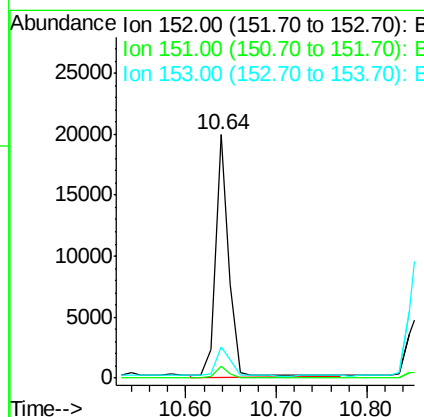
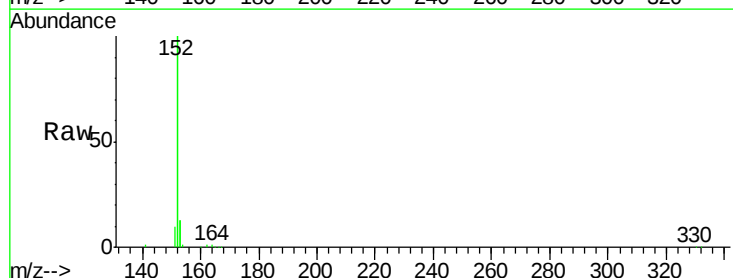
RT: 10.64 min Scan# 2095

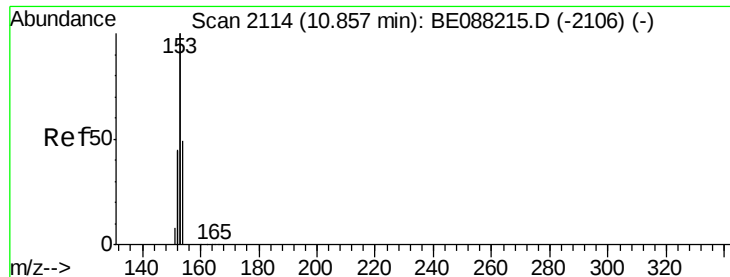
Delta R.T. 0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	152	Resp:	20685
Ion Ratio		Lower	Upper
152	100		
151	4.4	3.7	5.5
153	13.8	10.3	15.5





#10

Acenaphthene

Concen: 0.24 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088232.D

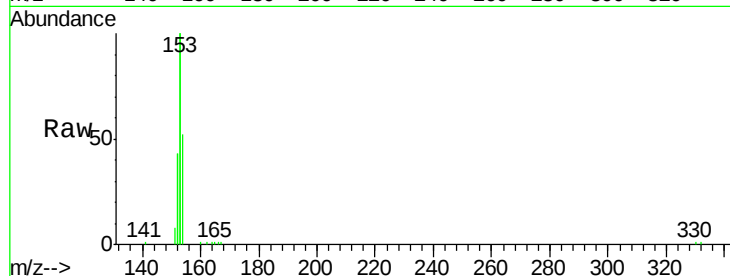
Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

ClientSampleId :

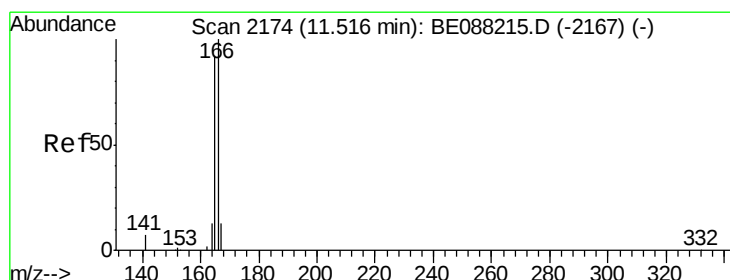
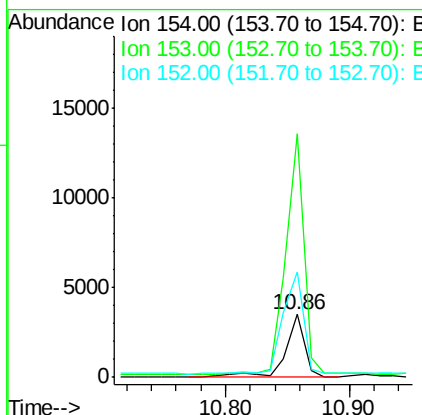
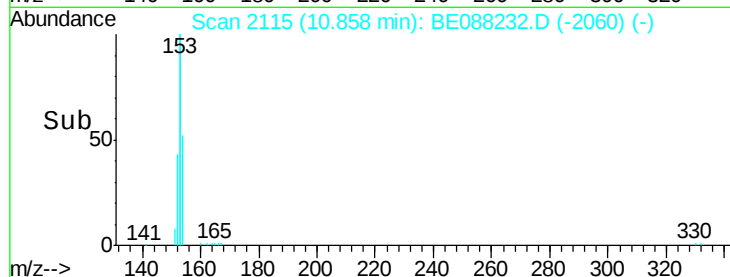
YS19-SS43P-1014



Tgt Ion:	154	Resp:	3484
Ion Ratio	Lower	Upper	
154	100		
153	380.7	326.0	489.0
152	188.9	155.6	233.4

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#11

Fluorene

Concen: 0.28 ng

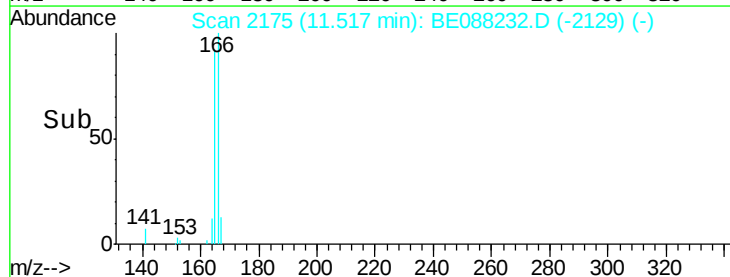
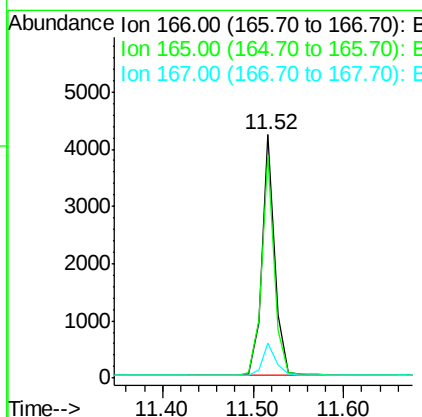
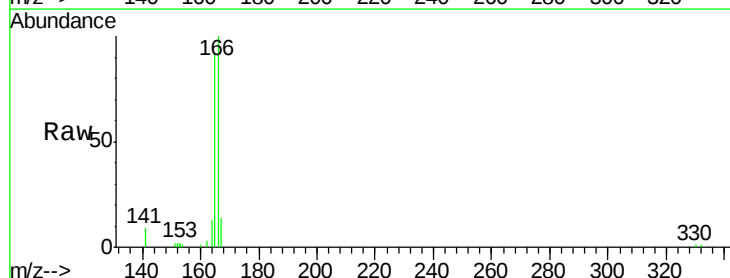
RT: 11.52 min Scan# 2175

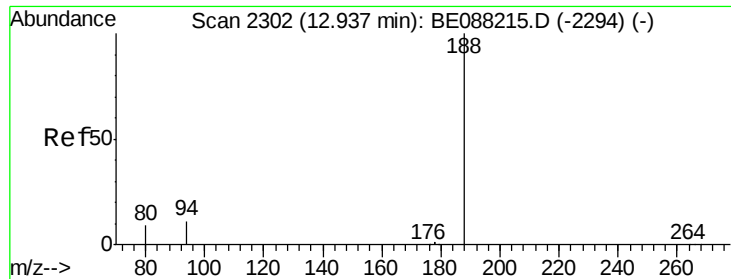
Delta R.T. 0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	166	Resp:	4168
Ion Ratio	Lower	Upper	
166	100		
165	91.6	71.8	107.6
167	13.7	10.7	16.1





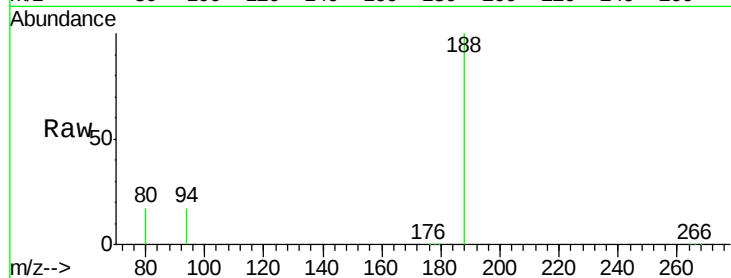
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.93 min Scan# 2302
Delta R.T. -0.01 min
Lab File: BE088232.D
Acq: 25 Oct 2014 5:03

Instrument :
BNA_E
ClientSampleId :
YS19-SS43P-1014

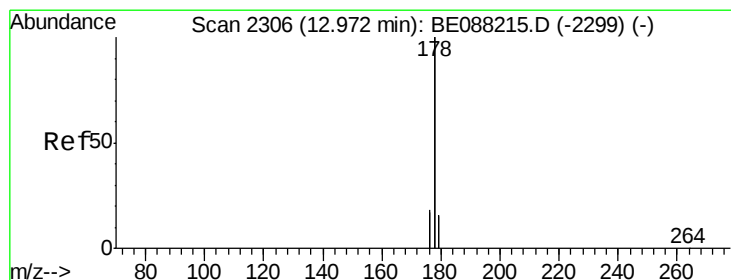
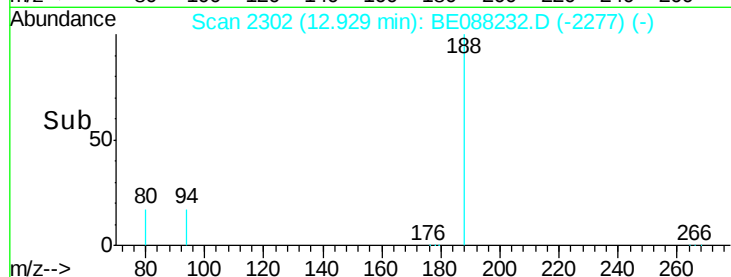
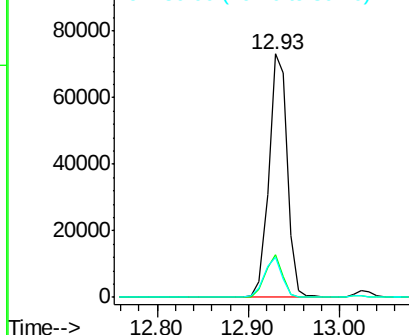
Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	17.5	8.5	12.7#
80	16.7	7.4	11.0#

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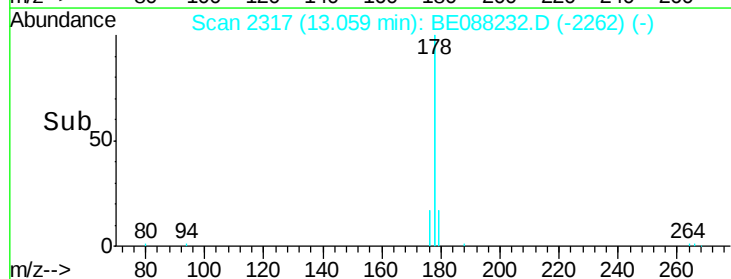
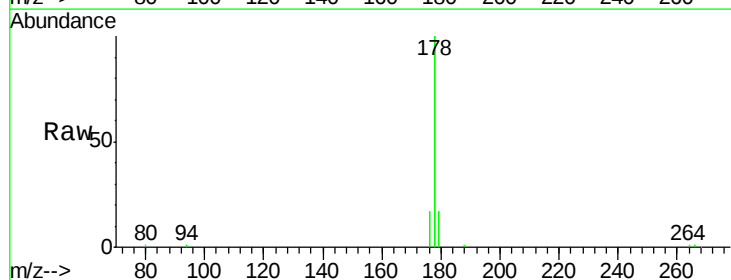
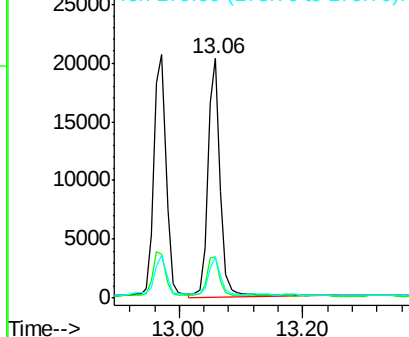
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

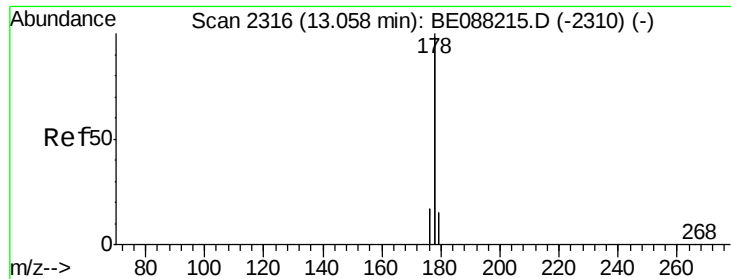


#13
Phenanthrene
Concen: 0.23 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.09 min
Lab File: BE088232.D
Acq: 25 Oct 2014 5:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.4	14.0	21.0
179	15.2	11.8	17.6

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 0.31 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

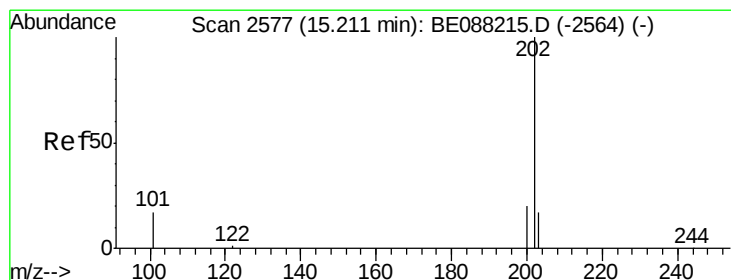
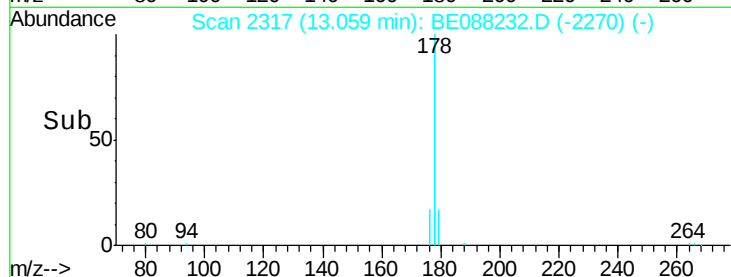
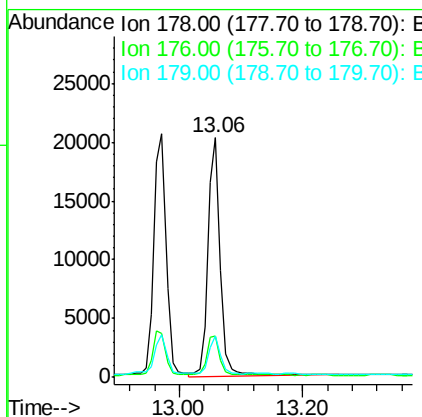
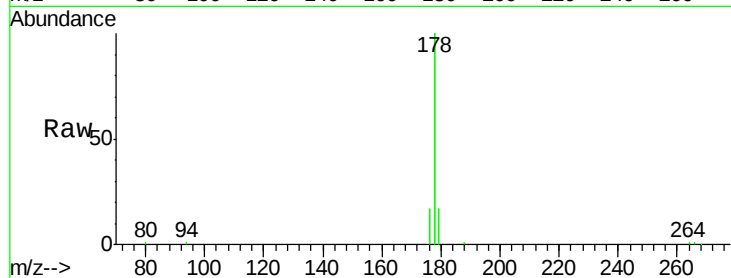
ClientSampleId :

YS19-SS43P-1014

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Tgt Ion:	178	Resp:	28476
Ion Ratio	Lower	Upper	
178	100		
176	18.4	14.7	22.1
179	15.2	12.3	18.5



#15

Fluoranthene

Concen: 0.34 ng

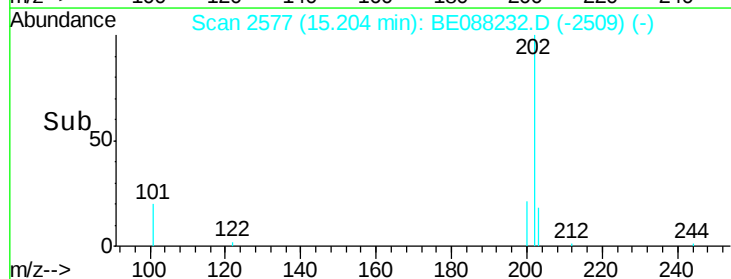
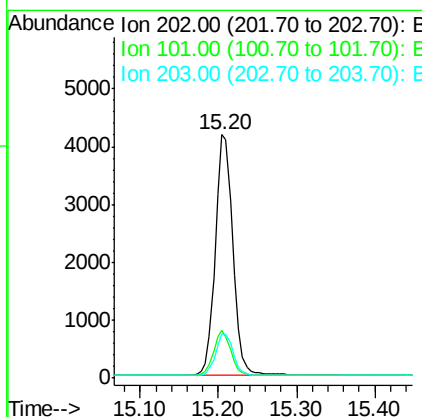
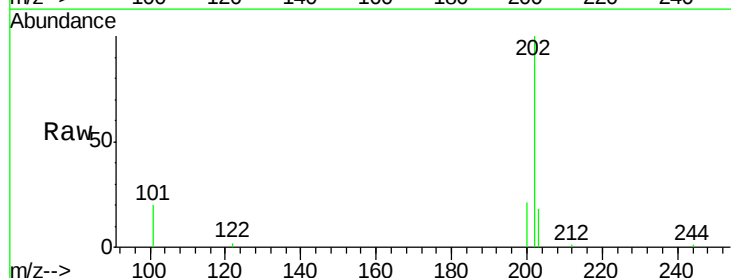
RT: 15.20 min Scan# 2577

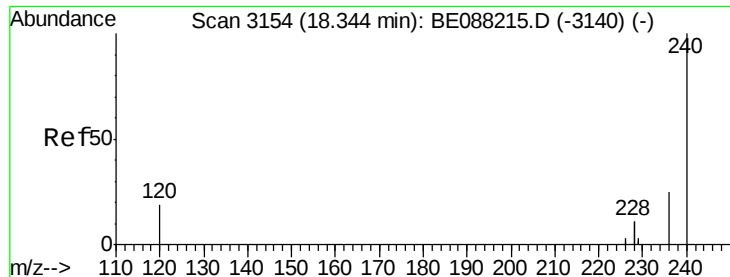
Delta R.T. -0.01 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	202	Resp:	6443
Ion Ratio	Lower	Upper	
202	100		
101	17.8	14.4	21.6
203	17.3	13.4	20.2





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.34 min Scan# 3155

Delta R.T. 0.00 min

Lab File: BE088232.D

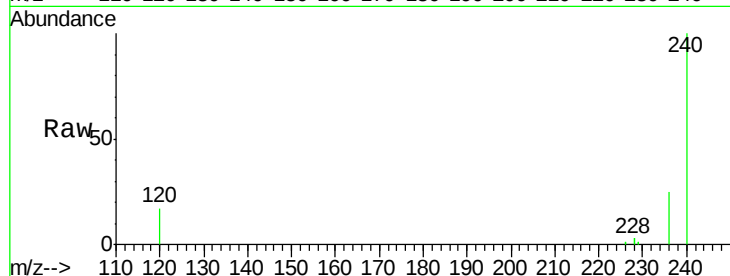
Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

ClientSampleId :

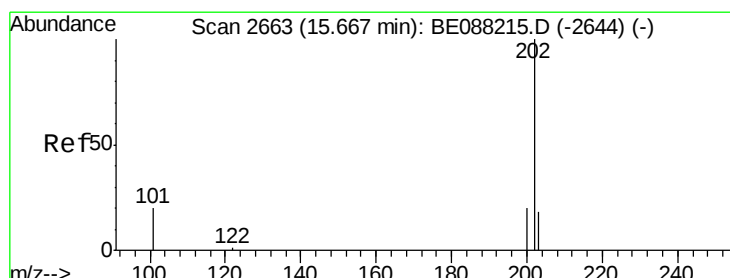
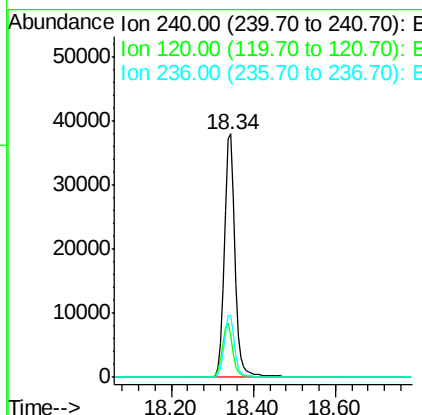
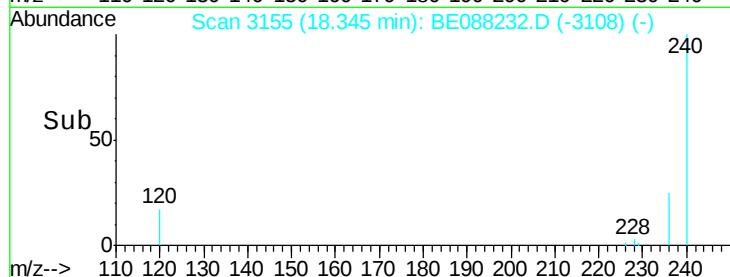
YS19-SS43P-1014



Tgt Ion:	240	Resp:	69801
Ion Ratio	Lower	Upper	
240	100		
120	17.1	15.1	22.7
236	25.3	20.1	30.1

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#17

Pyrene

Concen: 0.35 ng

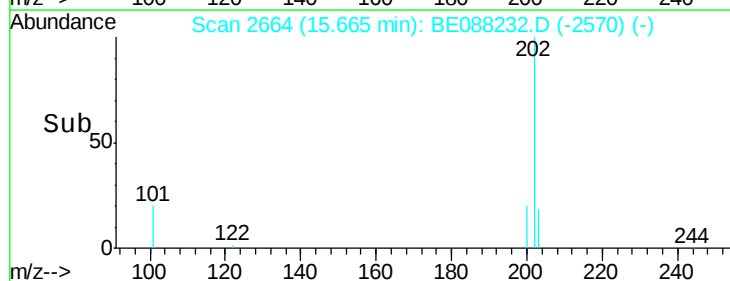
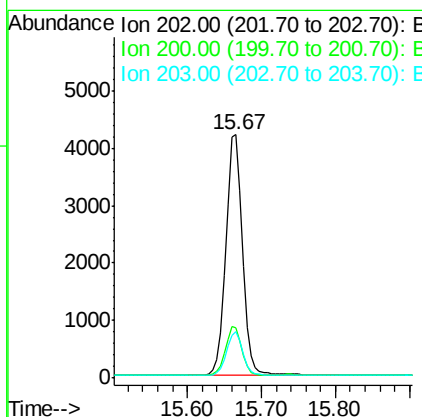
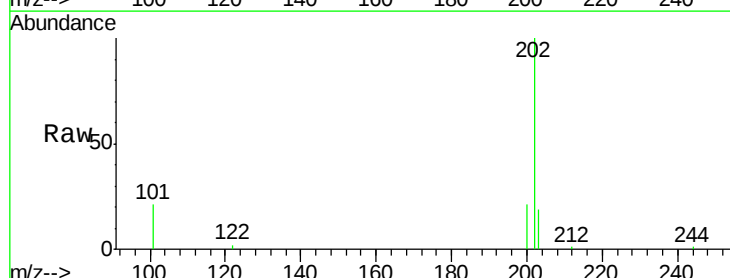
RT: 15.67 min Scan# 2664

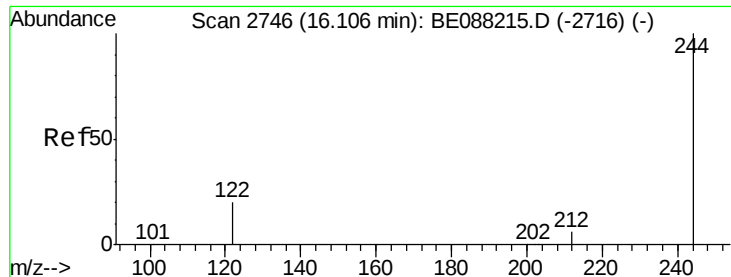
Delta R.T. -0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	202	Resp:	6671
Ion Ratio	Lower	Upper	
202	100		
200	20.1	16.2	24.2
203	17.7	13.8	20.8





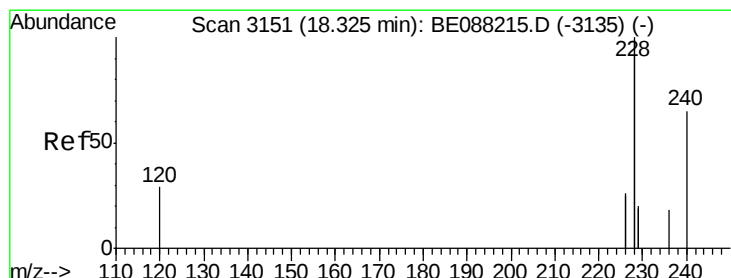
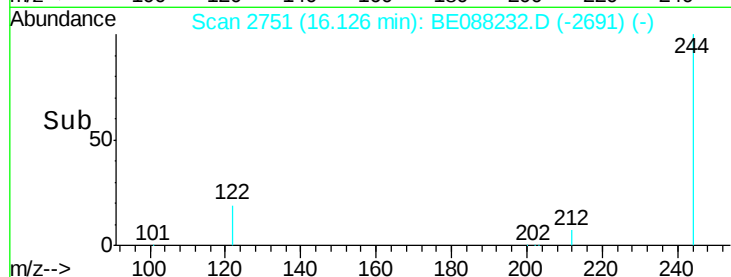
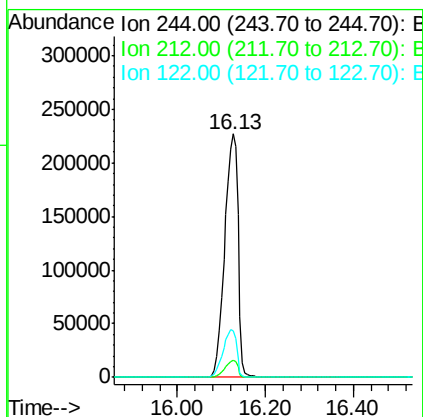
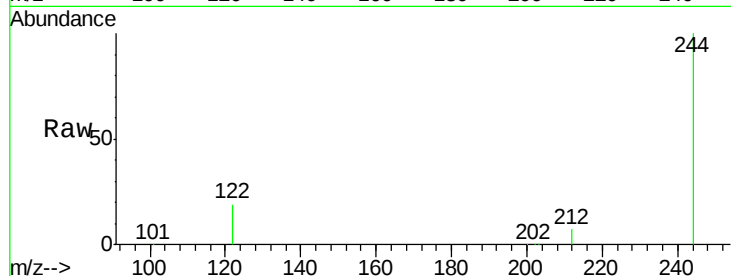
#18
 Terphenyl-d14
 Concen: 41.45 ng
 RT: 16.13 min Scan# 2751
 Delta R.T. 0.02 min
 Lab File: BE088232.D
 Acq: 25 Oct 2014 5:03

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43P-1014

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	473869		
212	6.8	5.4	8.2	
122	19.4	16.7	25.1	

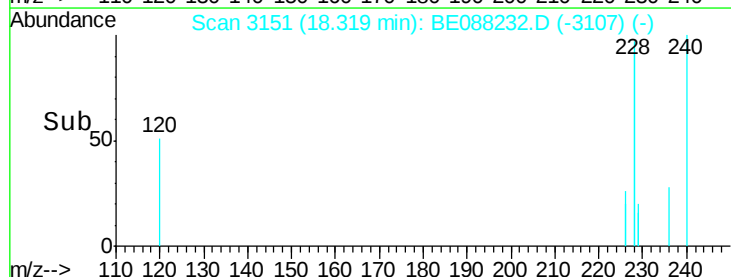
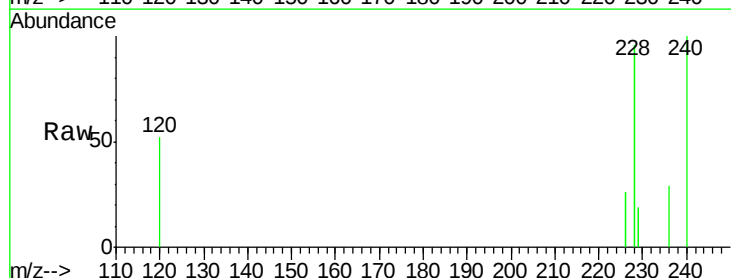
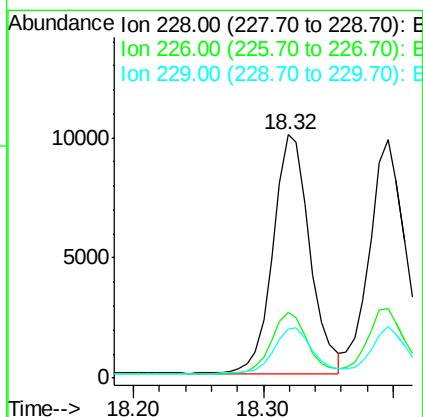
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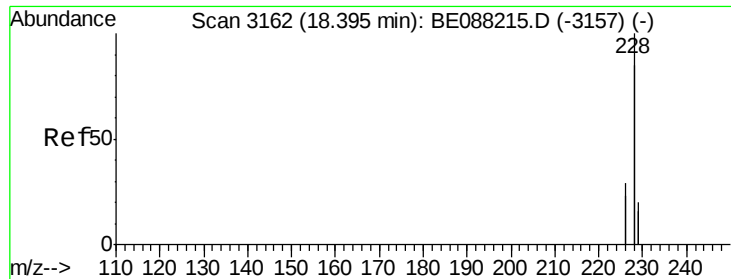
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#19
 Benzo(a)anthracene
 Concen: 0.36 ng
 RT: 18.32 min Scan# 3151
 Delta R.T. -0.01 min
 Lab File: BE088232.D
 Acq: 25 Oct 2014 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	19625		
226	26.9	20.5	30.7	
229	20.3	16.1	24.1	





#20

Chrysene

Concen: 0.33 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088232.D

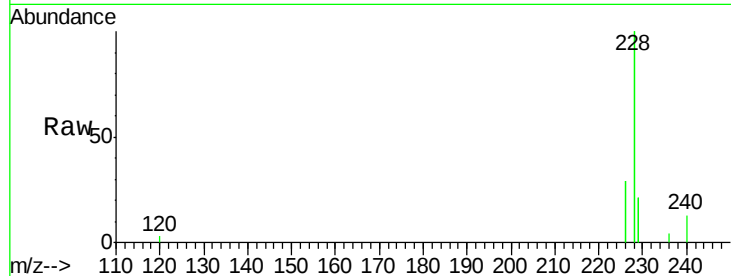
Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

ClientSampleId :

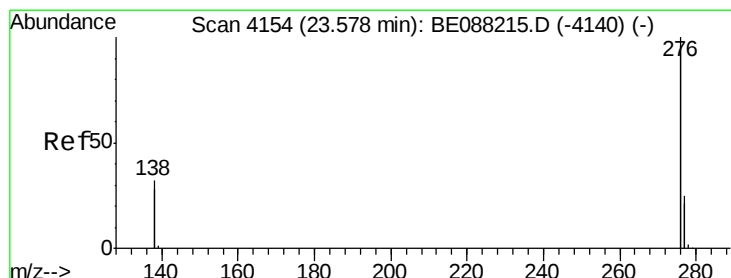
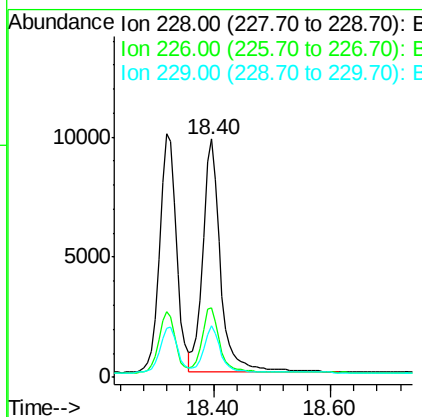
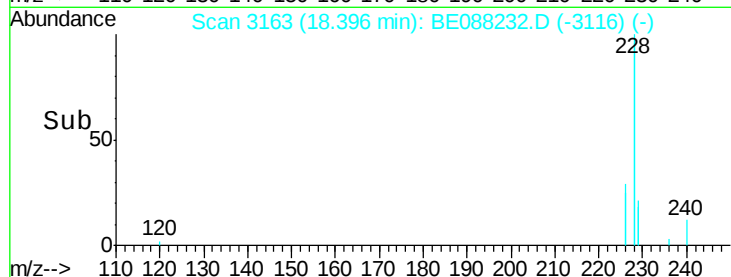
YS19-SS43P-1014



Tgt Ion:	228	Resp:	20340
Ion Ratio	Lower	Upper	
228	100		
226	29.3	23.3	34.9
229	21.4	15.6	23.4

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#21

Indeno(1,2,3-cd)pyrene

Concen: 0.43 ng m

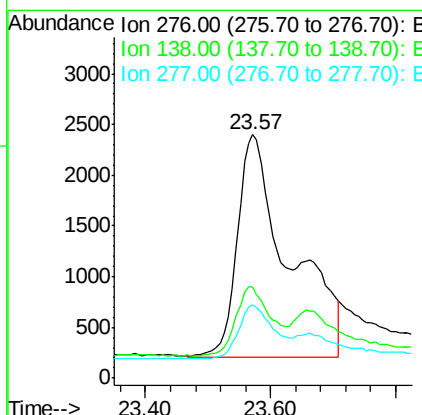
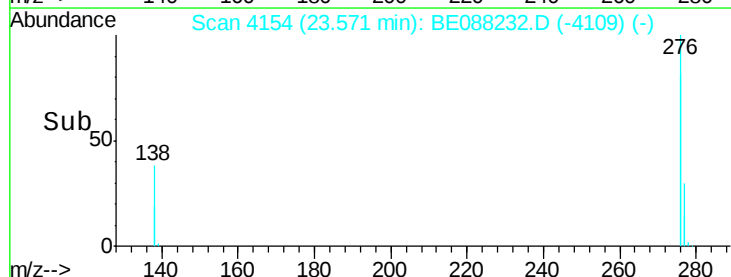
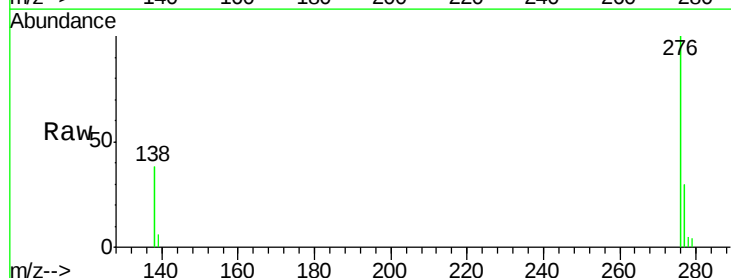
RT: 23.57 min Scan# 4154

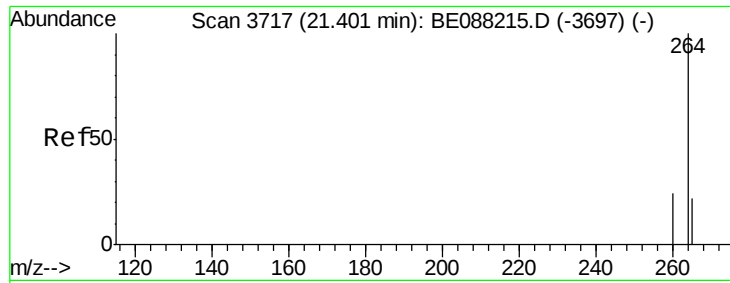
Delta R.T. -0.01 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	276	Resp:	12697
Ion Ratio	Lower	Upper	
276	100		
138	21.1	13.9	20.9#
277	16.4	10.7	16.1#





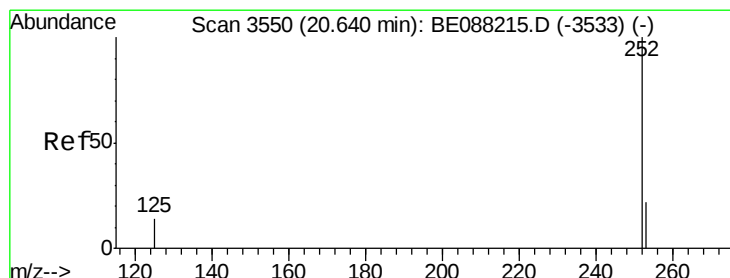
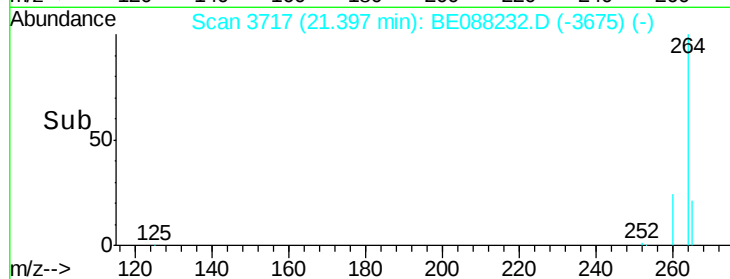
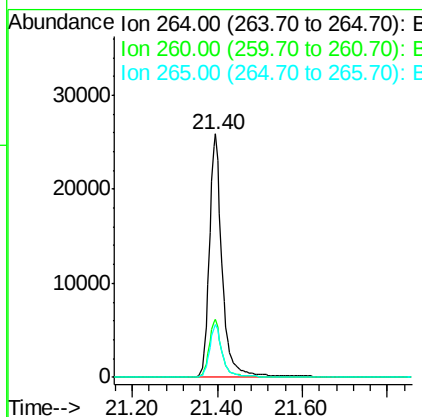
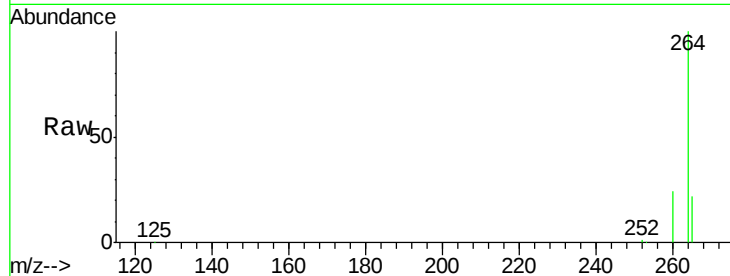
#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3717
 Delta R.T. -0.00 min
 Lab File: BE088232.D
 Acq: 25 Oct 2014 5:03

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS43P-1014

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	52815		
260	23.6	19.0	28.4	
265	21.6	17.4	26.2	

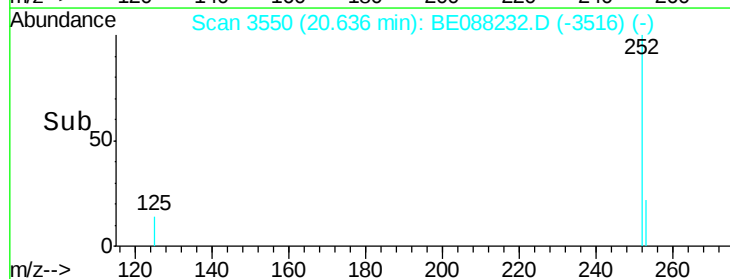
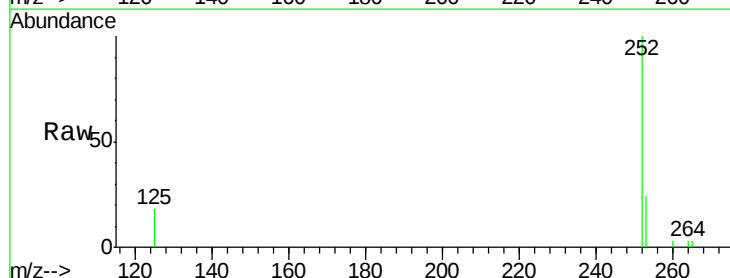
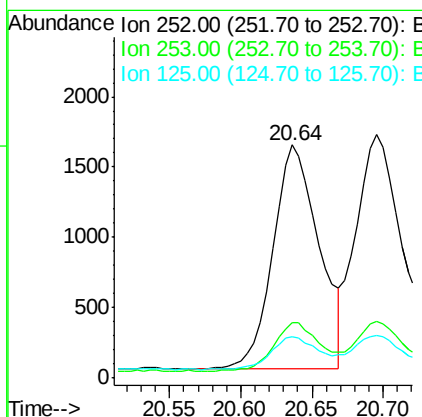
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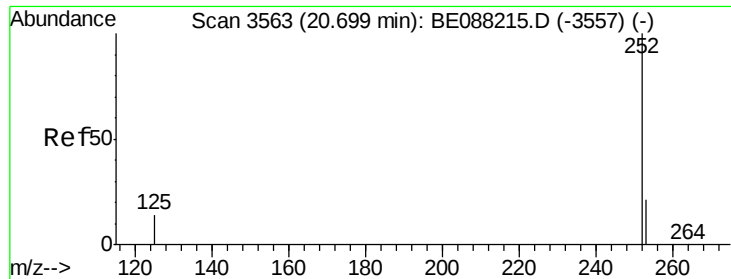
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#23
Benzo(b)fluoranthene
 Concen: 0.47 ng
 RT: 20.64 min Scan# 3550
 Delta R.T. -0.00 min
 Lab File: BE088232.D
 Acq: 25 Oct 2014 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	3569		
253	23.7	17.9	26.9	
125	17.5	12.2	18.2	





#24

Benzo(k)fluoranthene

Concen: 0.34 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088232.D

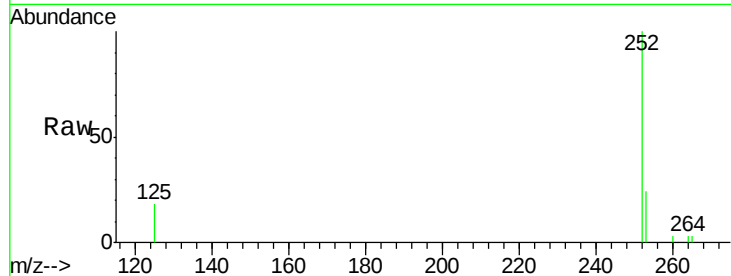
Acq: 25 Oct 2014 5:03

Instrument :

BNA_E

ClientSampleId :

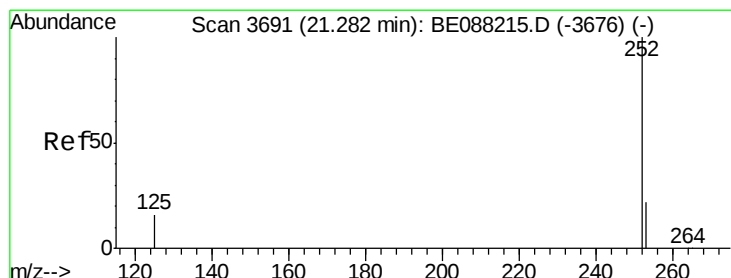
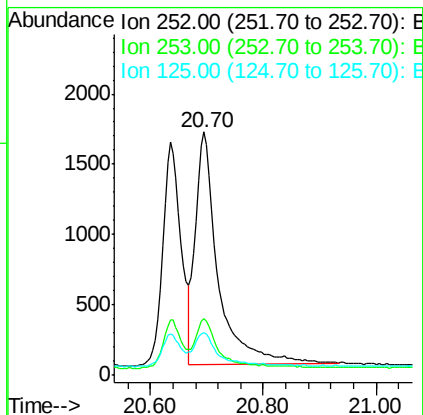
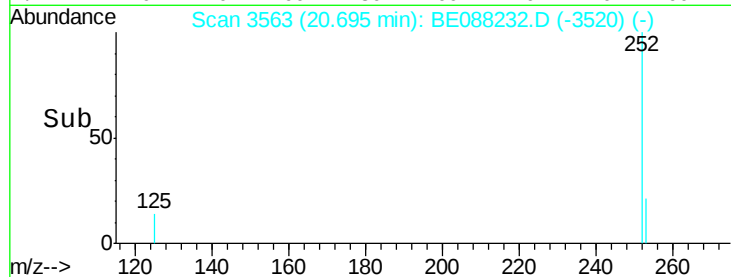
YS19-SS43P-1014



Tgt Ion:	252	Resp:	4666
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.6	26.4
125	17.5	12.1	18.1

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#25

Benzo(a)pyrene

Concen: 0.46 ng

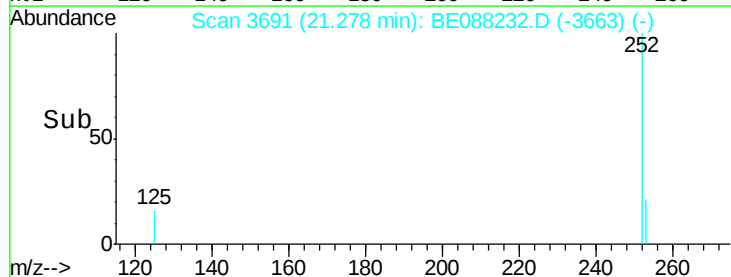
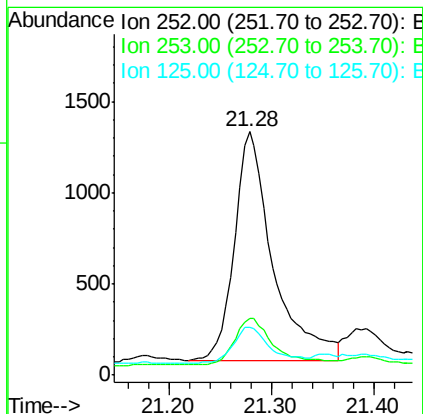
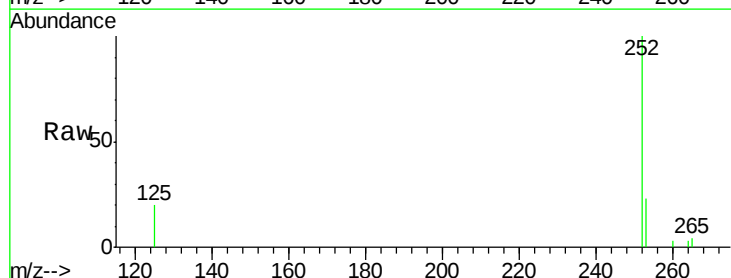
RT: 21.28 min Scan# 3691

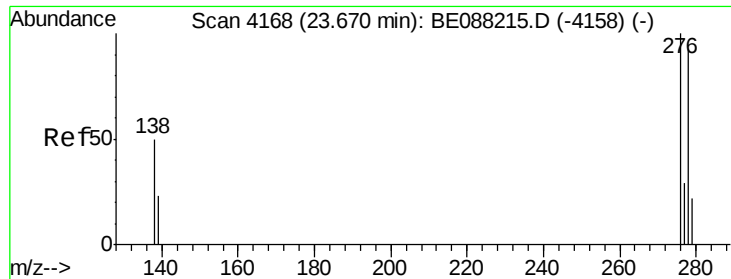
Delta R.T. -0.00 min

Lab File: BE088232.D

Acq: 25 Oct 2014 5:03

Tgt Ion:	252	Resp:	3287
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.8	26.8
125	19.7	13.5	20.3





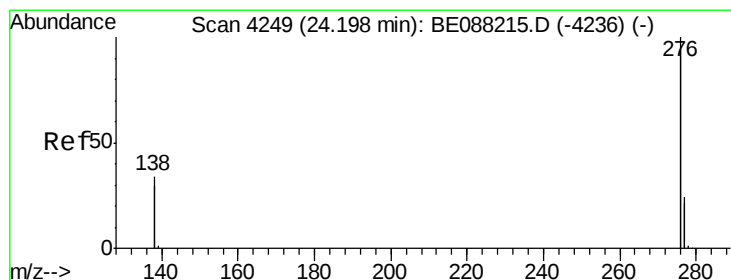
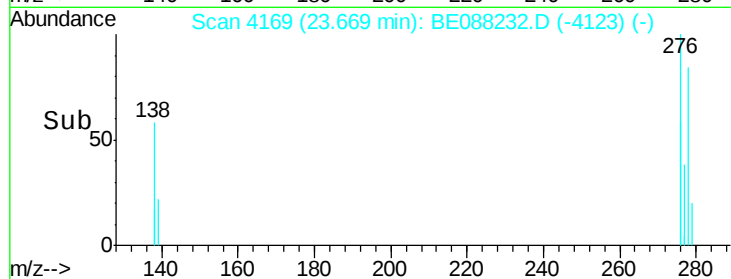
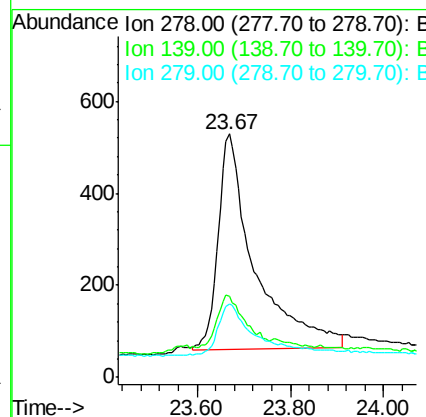
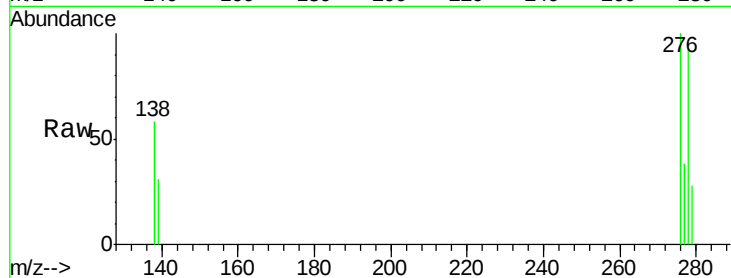
#26
Dibenzo(a,h)anthracene
Concen: 0.44 ng
RT: 23.67 min Scan# 4169
Delta R.T. 0.00 min
Lab File: BE088232.D
Acq: 25 Oct 2014 5:03

Instrument :
BNA_E
ClientSampleId :
YS19-SS43P-1014

Tgt Ion	Ratio	Lower	Upper
278	100		
139	33.5	22.1	33.1#
279	30.1	20.2	30.2

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#27
Benzo(g,h,i)perylene
Concen: 0.33 ng
RT: 24.19 min Scan# 4249
Delta R.T. -0.01 min
Lab File: BE088232.D
Acq: 25 Oct 2014 5:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.2	19.4	29.2
138	38.2	27.3	40.9

