

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
 Data File : BE092216.D
 Acq On : 5 Aug 2016 12:42
 Operator : UM/SJ
 Sample : SSTDCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCC0.4EC

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Quant Time: Aug 05 18:03:48 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10062	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	48558	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	28379	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	63674	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	75777	5.00	ng	0.00
28) Perylene-d12	24.14	264	71327	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.71	112	926	0.36	ng	0.01
5) Phenol-d6	7.36	99	1235	0.36	ng	0.01
7) Nitrobenzene-d5	9.35	82	1251m	0.33	ng	0.00
11) 2,4,6-Tribromophenol	16.33	330	333	0.36	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	3435	0.38	ng	0.00
24) Terphenyl-d14	20.19	244	4510	0.41	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	568	0.41	ng	98
3) n-Nitrosodimethylamine	3.80	42	605	0.40	ng	97
8) Naphthalene	11.03	128	4334	0.40	ng	98
9) 2-Methylnaphthalene	12.65	142	2756	0.41	ng	# 87
13) Acenaphthylene	14.54	152	18968	0.38	ng	98
14) Acenaphthene	14.90	154	3105	0.39	ng	# 96
15) Fluorene	15.89	166	3820	0.38	ng	99
17) Hexachlorobenzene	16.89	284	1136	0.36	ng	# 38
18) Pentachlorophenol	17.24	266	293	0.44	ng	94
19) Phenanthrene	17.61	178	7189	0.38	ng	100
20) Anthracene	17.70	178	6361	0.38	ng	99
21) Fluoranthene	19.63	202	28916	0.37	ng	98
23) Pvrene	19.99	202	30873	0.39	ng	99
25) Benzo(a)anthracene	21.72	228	32204	0.39	ng	96
26) Chrysene	21.77	228	32230	0.39	ng	# 89
27) Indeno(1,2,3-cd)pyrene	26.65	276	32554	0.36	ng	99
29) Benzo(b)fluoranthene	23.40	252	7251	0.37	ng	97
30) Benzo(k)fluoranthene	23.45	252	7817	0.40	ng	97
31) Benzo(a)pvrene	24.02	252	7127	0.40	ng	# 97
32) Dibenzo(a,h)anthracene	26.67	278	6565	0.38	ng	98
33) Benzo(g,h,i)perylene	27.42	276	27947	0.38	ng	99

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

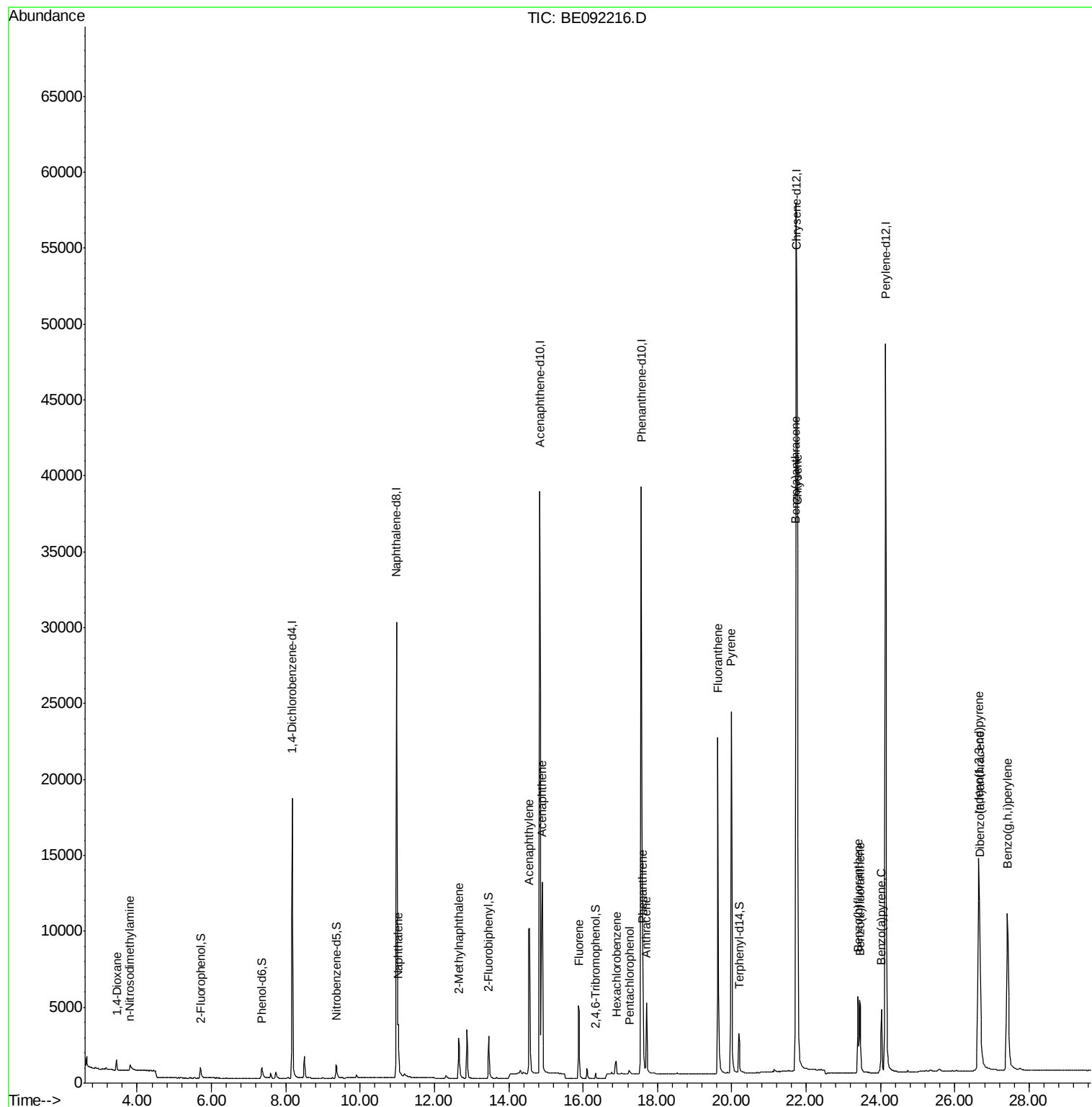
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

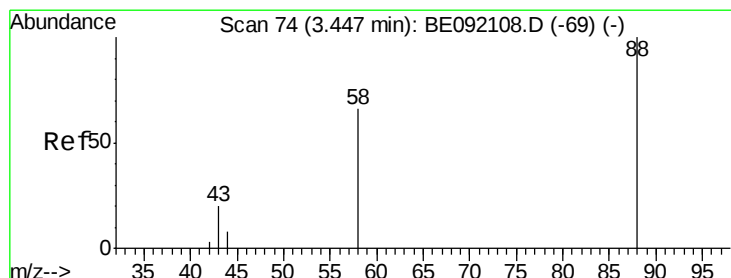
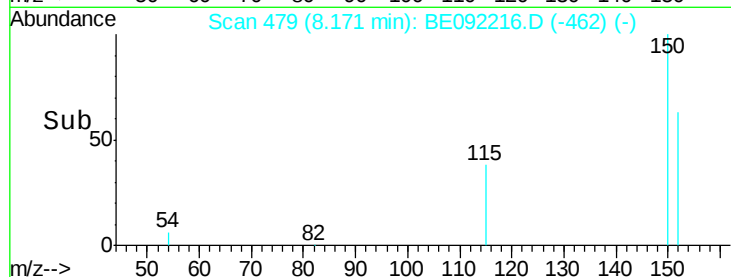
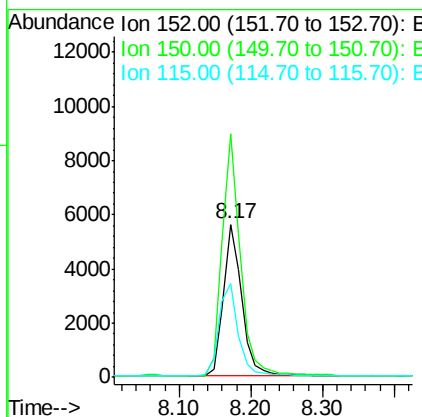
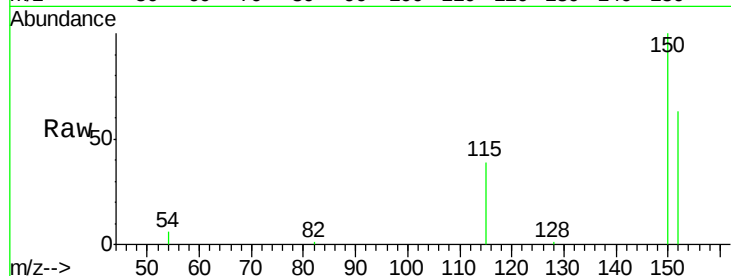
ClientSampleId :

SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	106.0	159.0#
115	61.3	36.9	55.3#

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#2

1,4-Dioxane

Concen: 0.41 ng

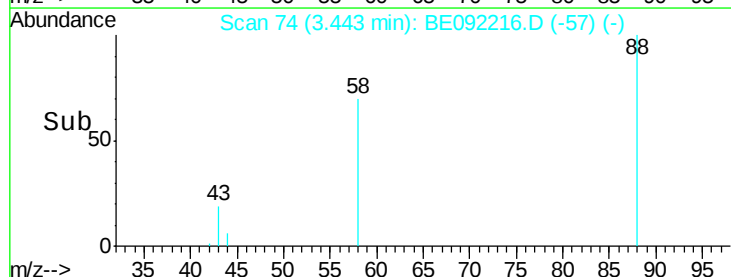
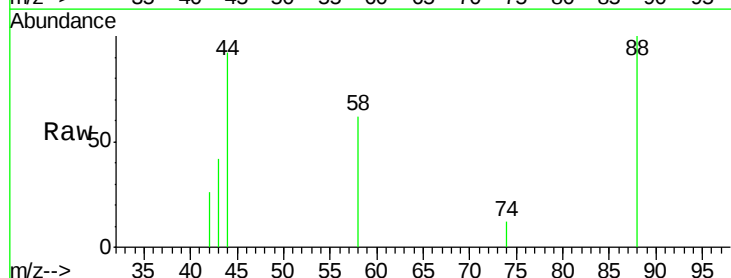
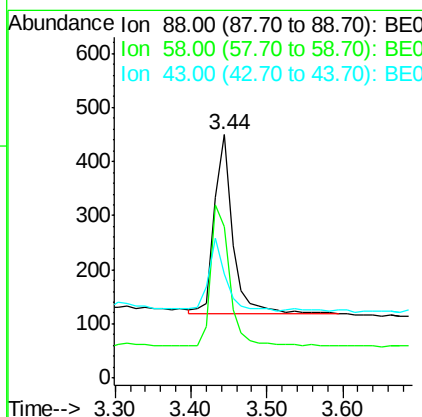
RT: 3.44 min Scan# 74

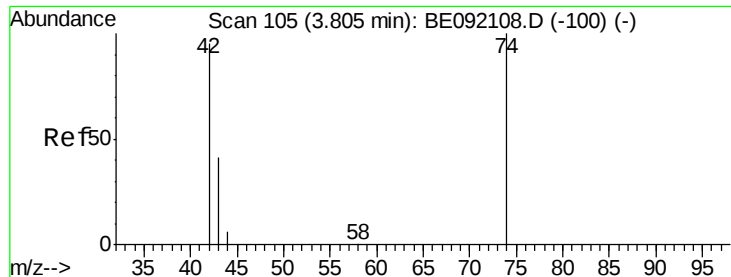
Delta R.T. -0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
88	100		
58	78.3	62.1	93.1
43	36.1	27.2	40.8





#3

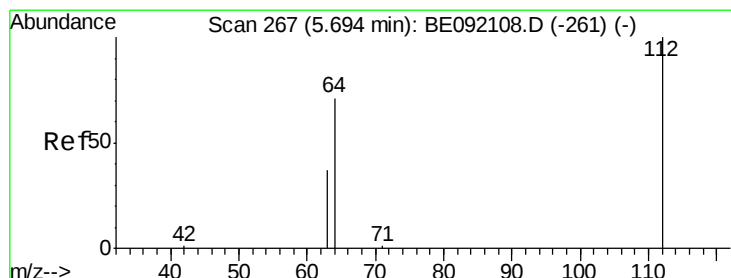
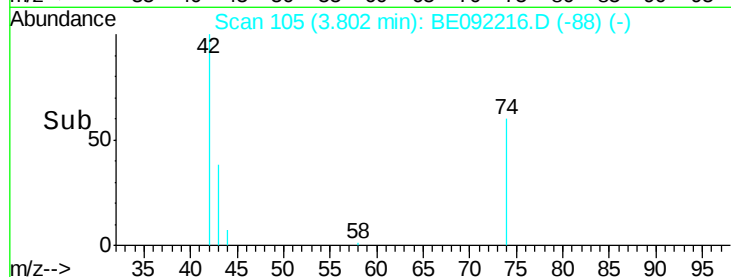
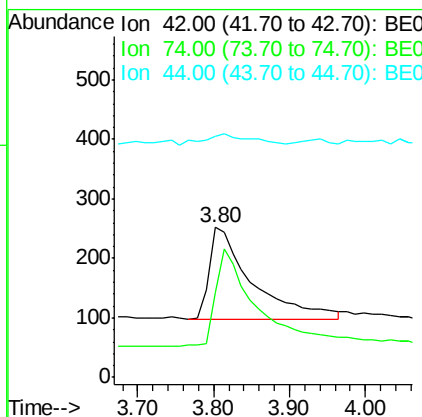
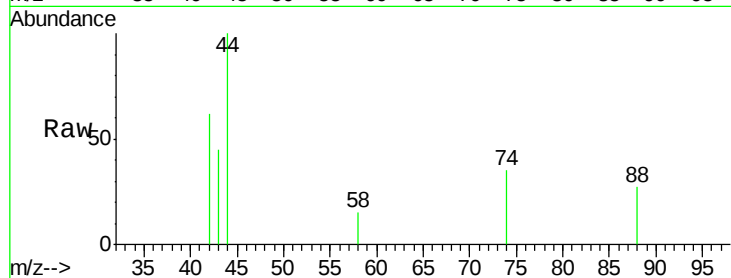
n-Nitrosodimethylamine
 Concen: 0.40 ng
 RT: 3.80 min Scan# 105
 Delta R.T. -0.00 min
 Lab File: BE092216.D
 Acq: 5 Aug 2016 12:42

Instrument :
 BNA_E
 ClientSampleId :
 SSTDC0.4EC

Tot Ion	Ratio	Lower	Upper
42	100		
74	100.7	82.8	124.2
44	12.2	9.0	13.4

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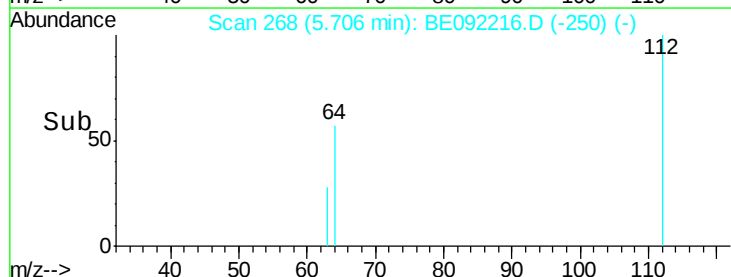
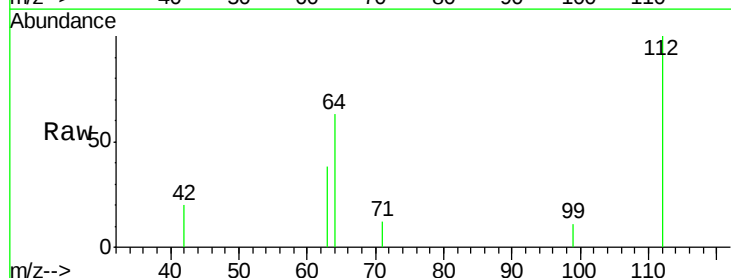
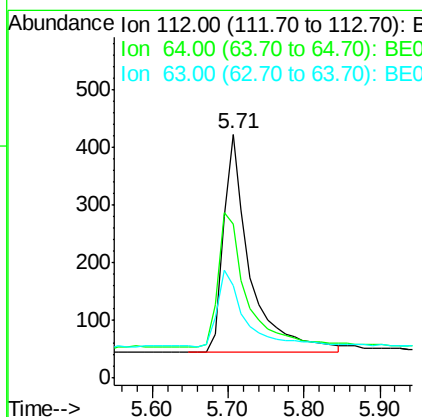
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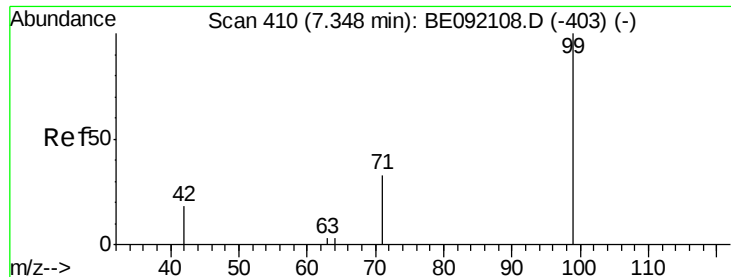


#4

2-Fluorophenol
 Concen: 0.36 ng
 RT: 5.71 min Scan# 268
 Delta R.T. 0.01 min
 Lab File: BE092216.D
 Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.2	55.9	83.9
63	37.1	31.1	46.7





#5

Phenol-d6

Concen: 0.36 ng

RT: 7.36 min Scan# 411

Delta R.T. 0.01 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

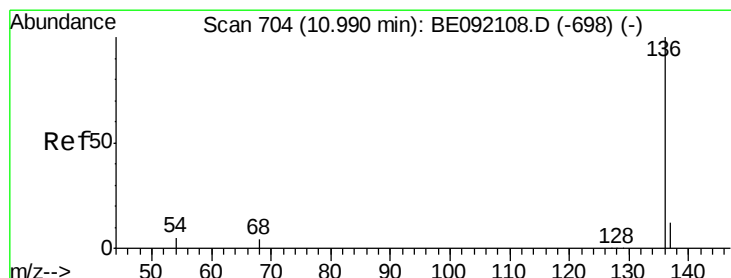
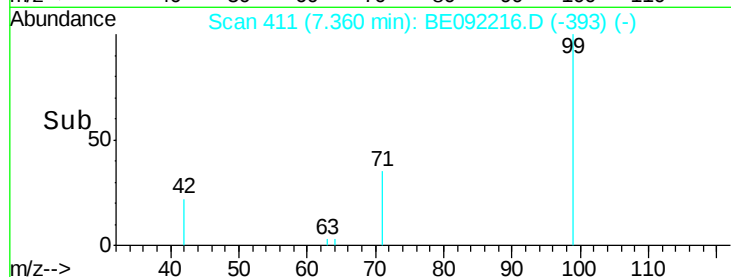
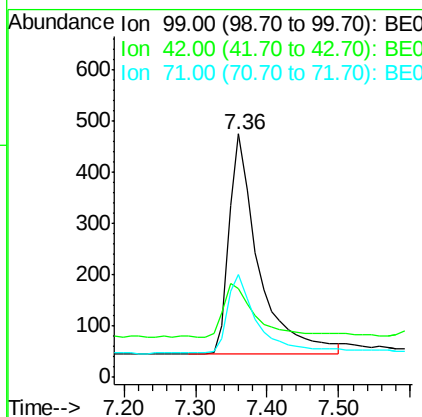
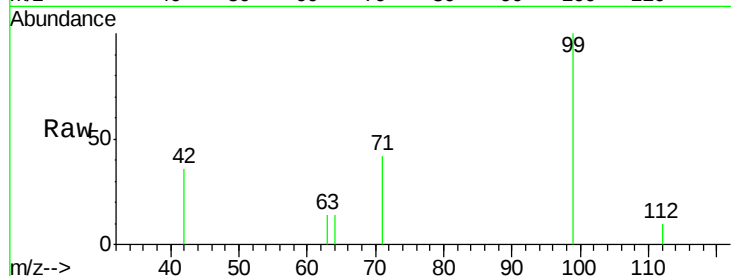
ClientSampleId :

SSTDCC0.4EC

Tot Ion:	99	Resp:	1235
Ion Ratio	Lower	Upper	
99	100		
42	25.7	22.4	33.6
71	35.6	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

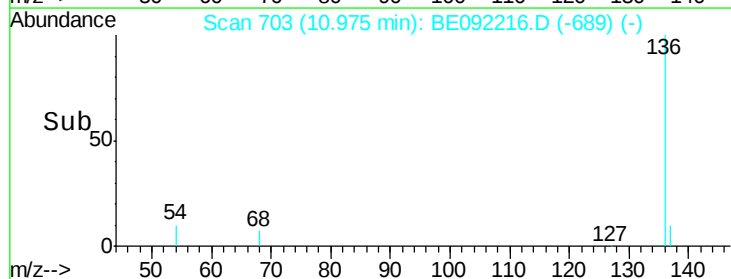
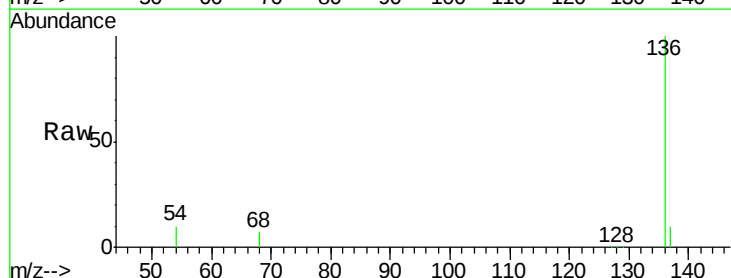
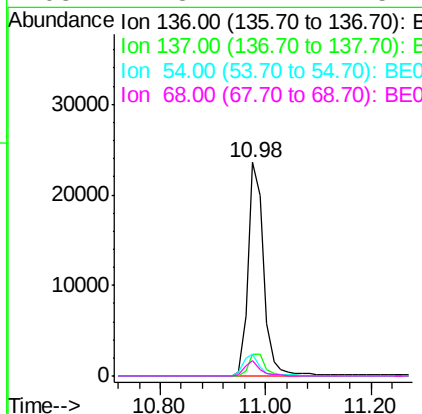
RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion:	136	Resp:	48558
Ion Ratio	Lower	Upper	
136	100		
137	10.4	9.1	13.7
54	10.4	2.7	4.1#
68	7.3	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 0.33 ng m

RT: 9.35 min Scan# 581

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

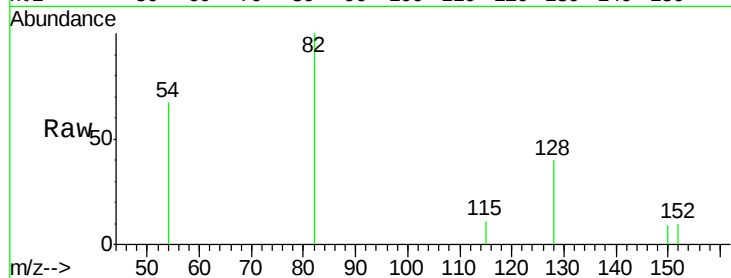
ClientSampleId :

SSTDCC0.4EC

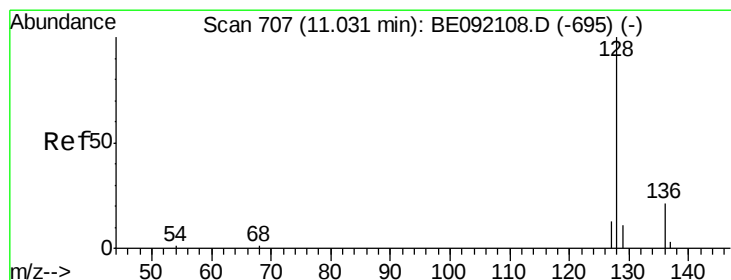
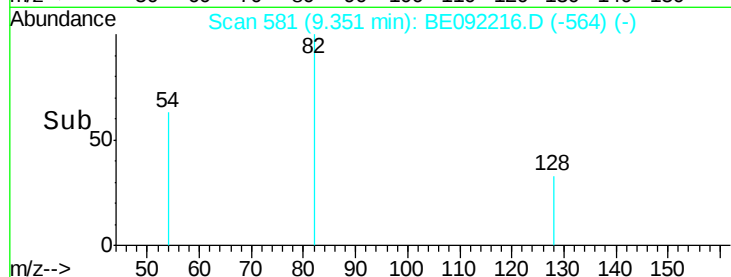
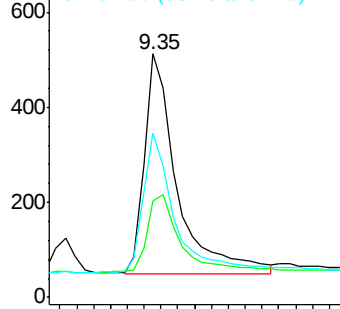
Tot Ion:	82	Resp:	1251
Ion Ratio	Lower	Upper	
82	100		
128	39.8	33.0	49.4
54	67.4	42.6	63.8

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Abundance Ion 82.00 (81.70 to 82.70): BE092216.D (-564) (-)



#8

Naphthalene

Concen: 0.40 ng

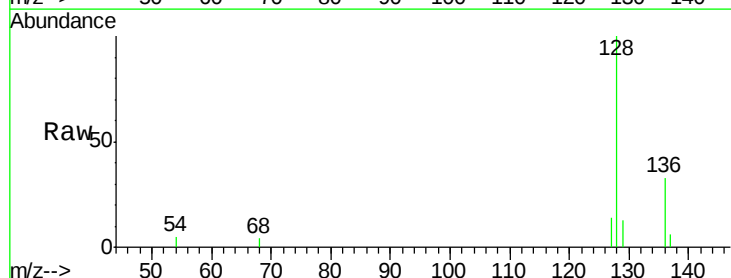
RT: 11.03 min Scan# 707

Delta R.T. -0.00 min

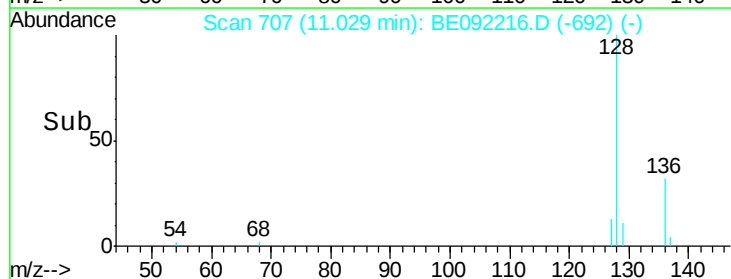
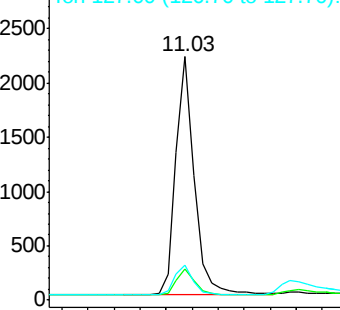
Lab File: BE092216.D

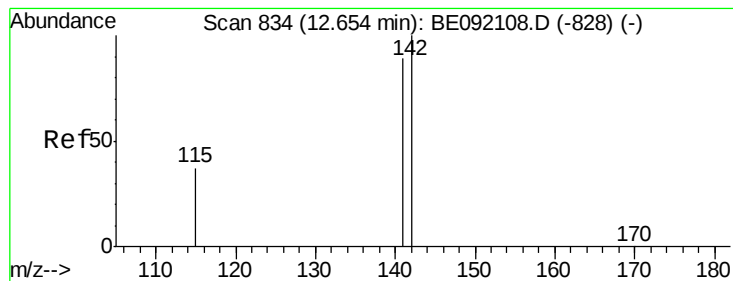
Acq: 5 Aug 2016 12:42

Tgt Ion:	128	Resp:	4334
Ion Ratio	Lower	Upper	
128	100		
129	13.0	11.1	16.7
127	14.4	11.3	16.9



Abundance Ion 128.00 (127.70 to 128.70): BE092216.D (-692) (-)





#9

2-Methylnaphthalene

Concen: 0.41 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

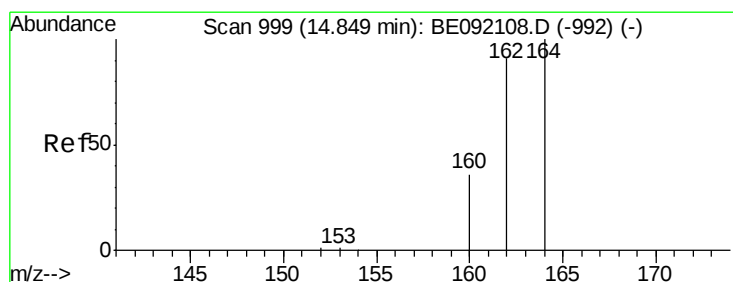
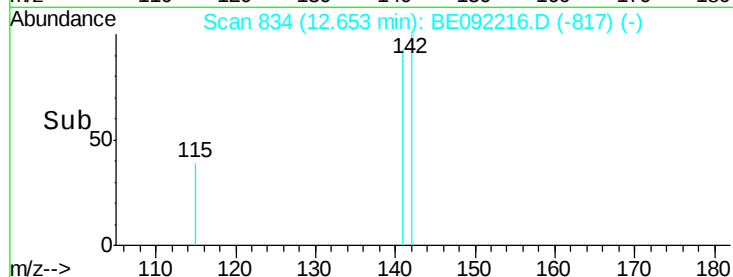
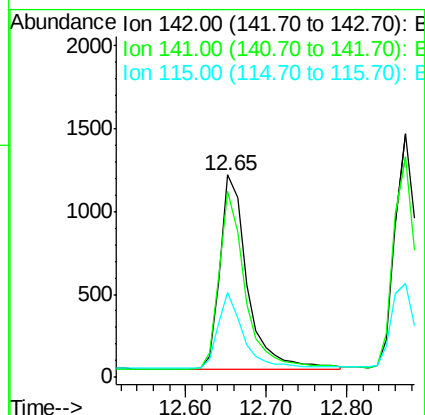
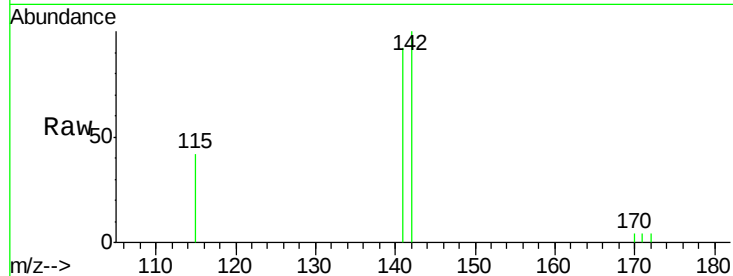
ClientSampleId :

SSTDCC0.4EC

Tot Ion:	142	Resp:	2756
Ion	Ratio	Lower	Upper
142	100		
141	92.2	65.1	97.7
115	41.9	27.0	40.4#

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#10

Acenaphthene-d10

Concen: 5.00 ng

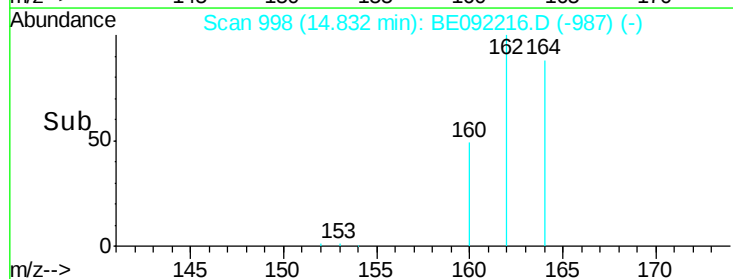
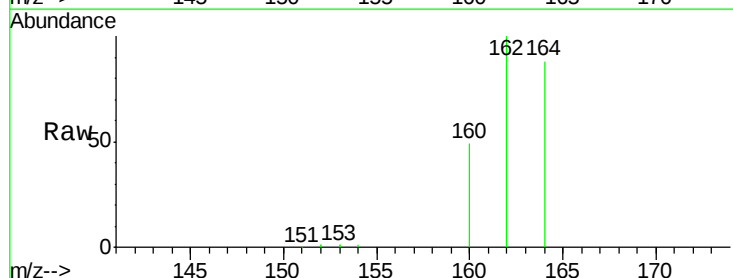
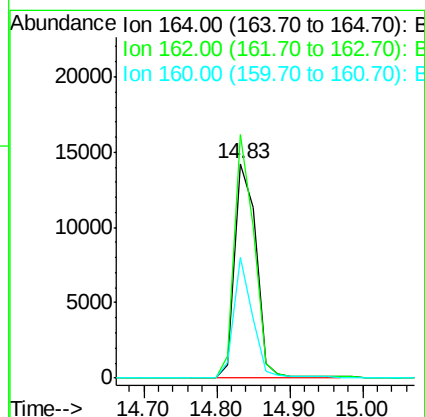
RT: 14.83 min Scan# 998

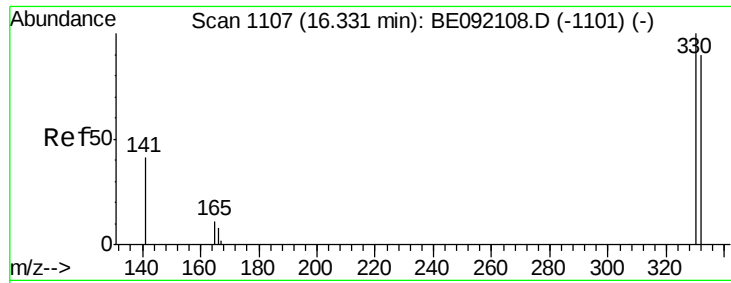
Delta R.T. -0.02 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion:	164	Resp:	28379
Ion	Ratio	Lower	Upper
164	100		
162	113.6	69.5	104.3#
160	56.1	27.6	41.4#





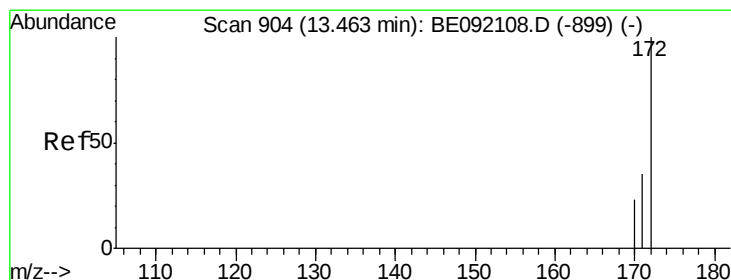
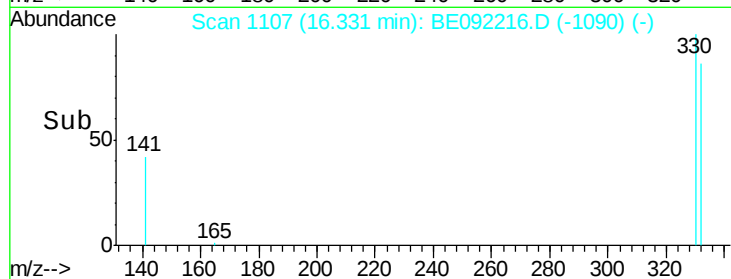
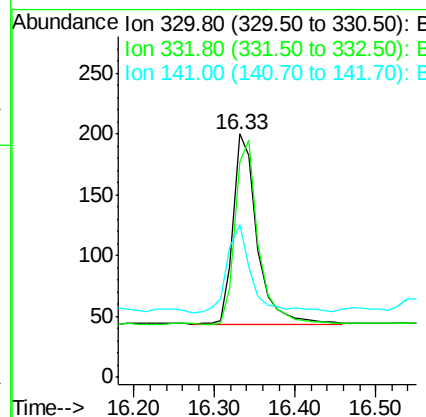
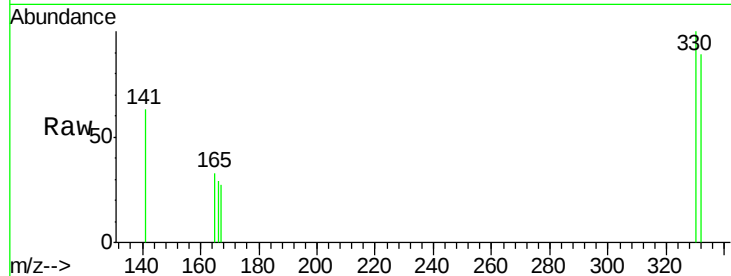
#11
 2,4,6-Tribromophenol
 Concen: 0.36 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092216.D
 Acq: 5 Aug 2016 12:42

Instrument :
 BNA_E
 ClientSampleId :
 SSTDC0.4EC

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.0	74.2	111.4
141	45.9	139.8	209.8

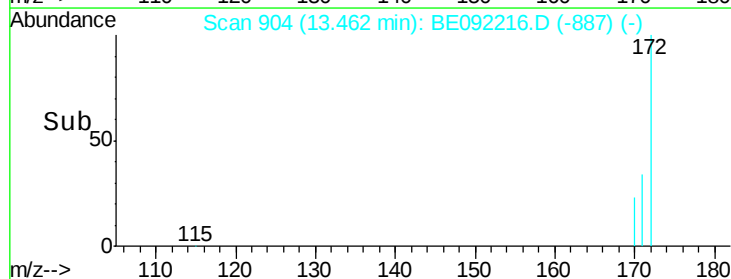
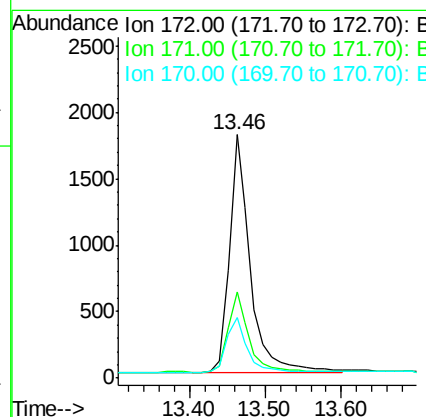
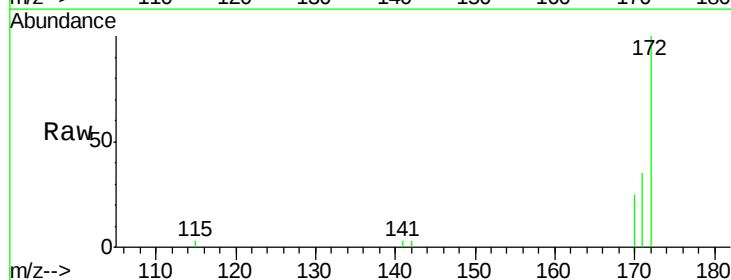
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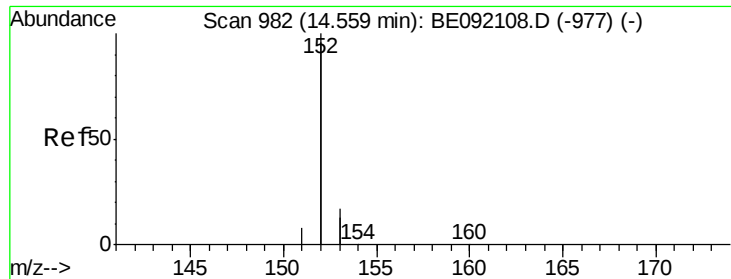
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#12
 2-Fluorobiphenyl
 Concen: 0.38 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092216.D
 Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.3	45.5
170	24.8	21.6	32.4





#13

Acenaphthylene

Concen: 0.38 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

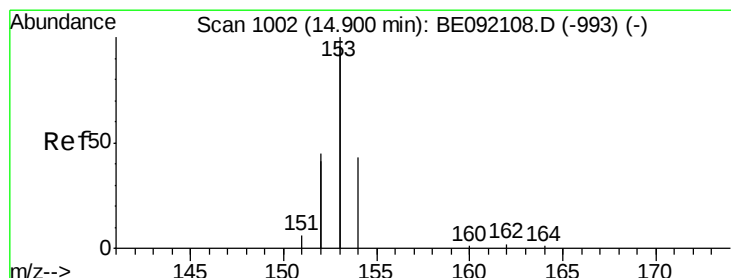
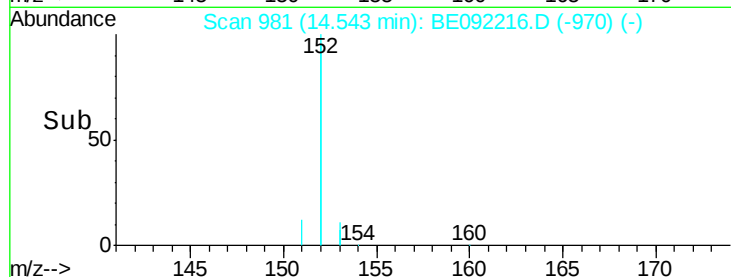
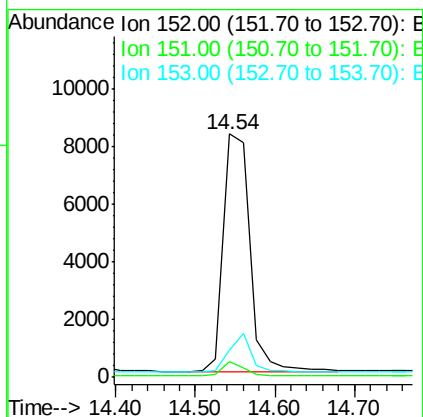
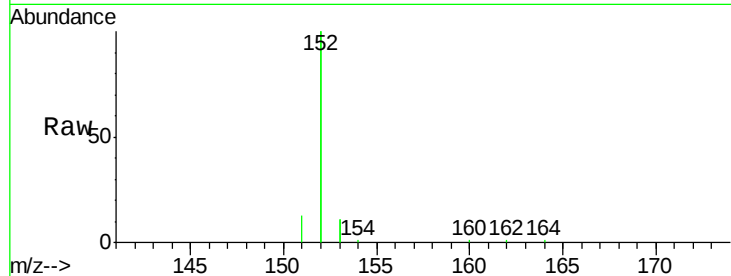
ClientSampleId :

SSTDCC0.4EC

Tot Ion:	152	Resp:	18968
Ion Ratio	Lower	Upper	
152	100		
151	4.9	4.0	6.0
153	13.2	9.6	14.4

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#14

Acenaphthene

Concen: 0.39 ng

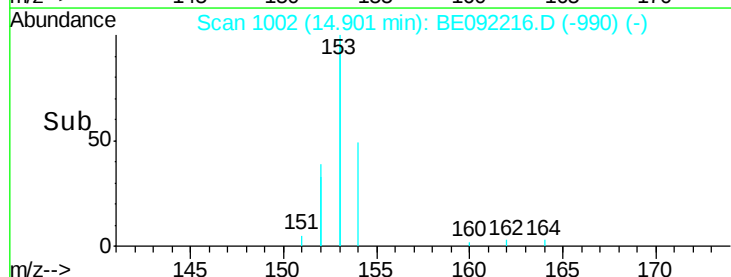
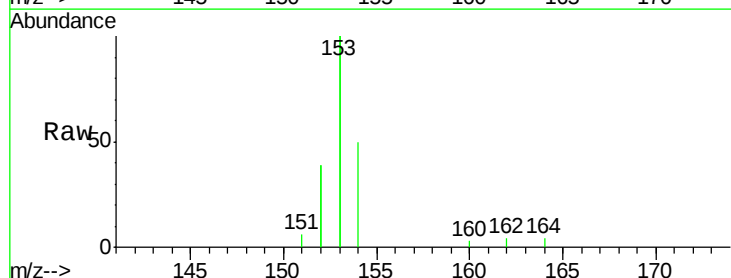
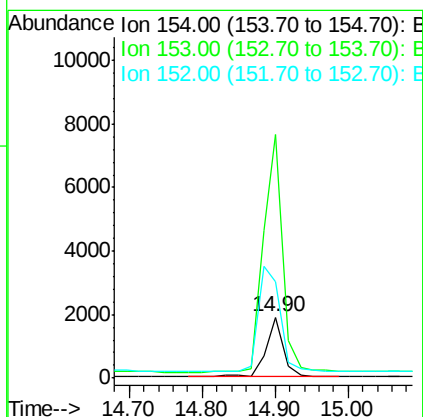
RT: 14.90 min Scan# 1002

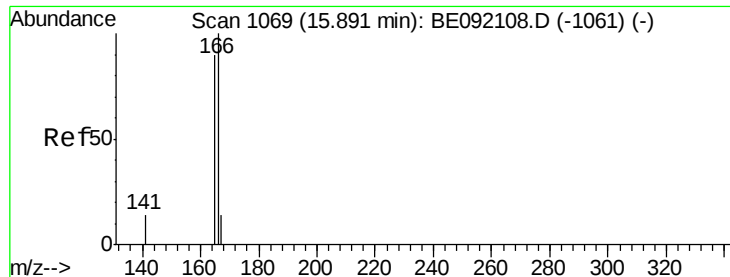
Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion:	154	Resp:	3105
Ion Ratio	Lower	Upper	
154	100		
153	442.0	345.1	517.7
152	218.9	0.0	0.0#





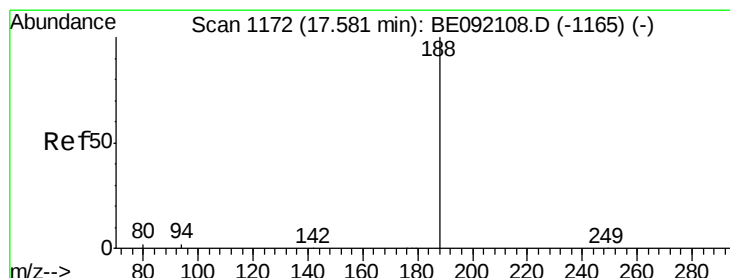
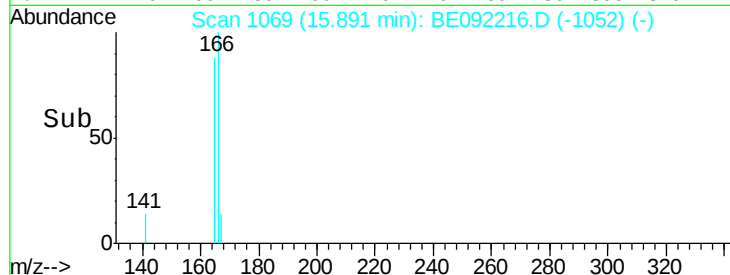
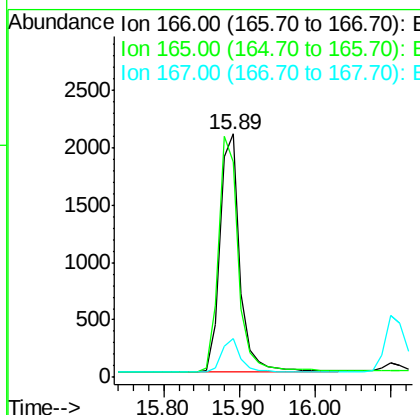
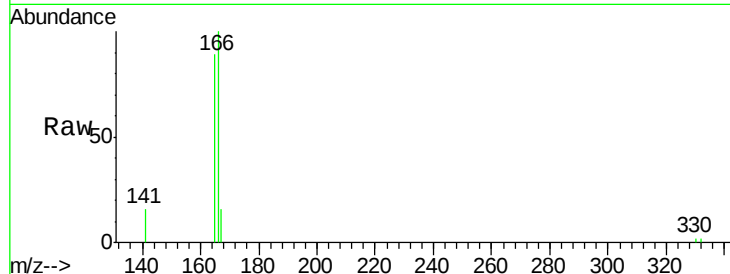
#15
Fluorene
 Concen: 0.38 ng
 RT: 15.89 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: BE092216.D
 Acq: 5 Aug 2016 12:42

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	78.6	118.0
167	13.5	11.1	16.7

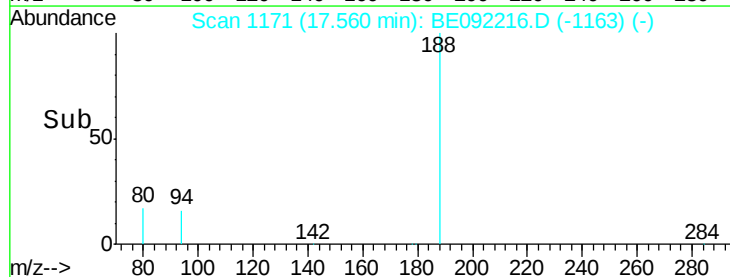
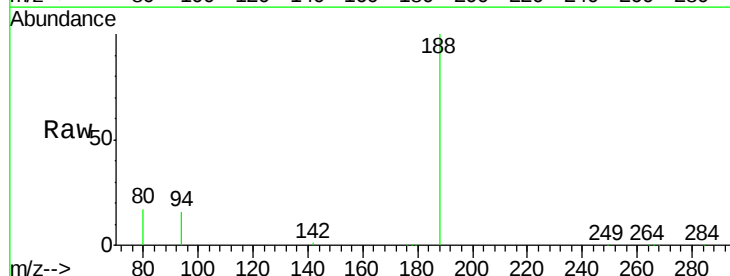
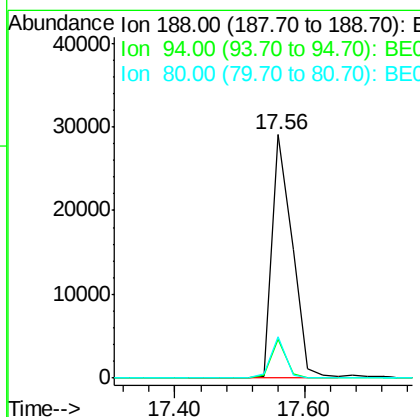
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#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1171
 Delta R.T. -0.02 min
 Lab File: BE092216.D
 Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	16.1	3.9	5.9#
80	17.1	3.4	5.0#





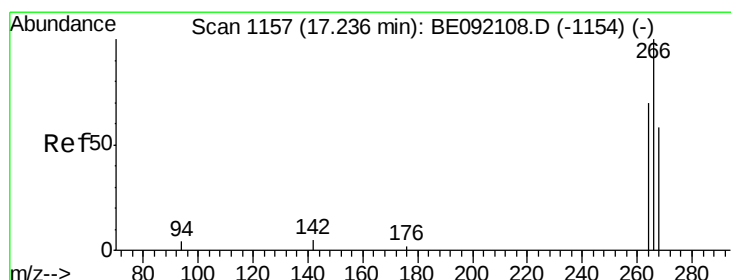
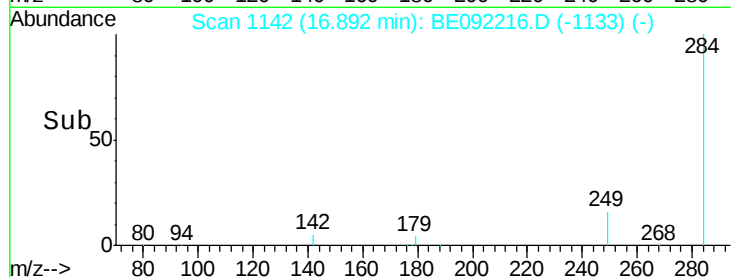
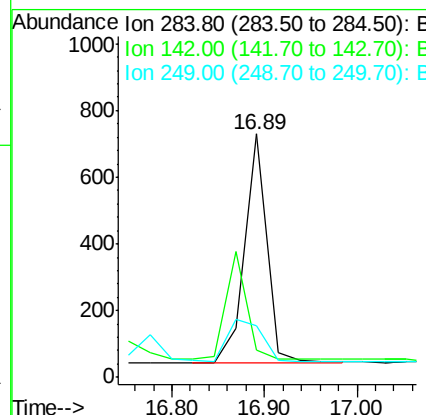
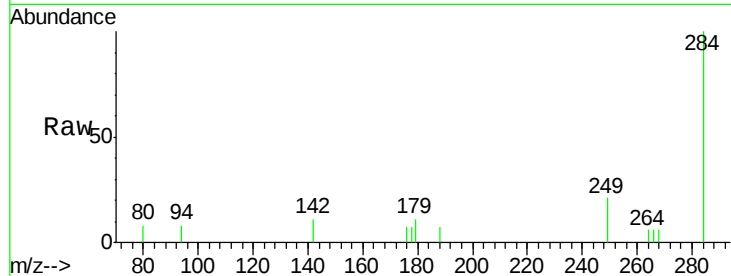
#17
Hexachlorobenzene
Concen: 0.36 ng
RT: 16.89 min Scan# 1142
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Instrument :
BNA_E
ClientSampleId :
SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	33.3	49.9#
249	0.0	25.4	38.0#

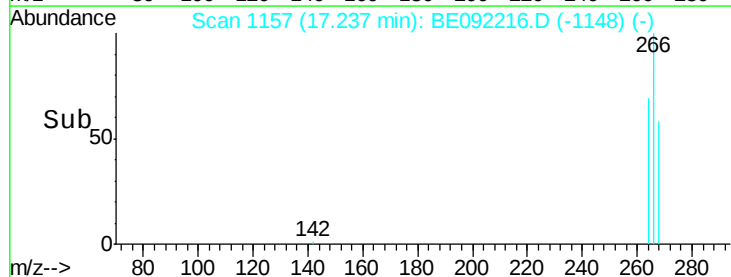
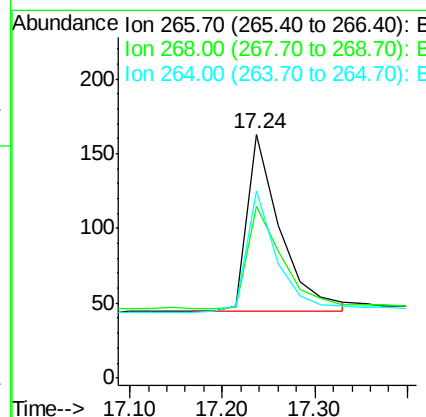
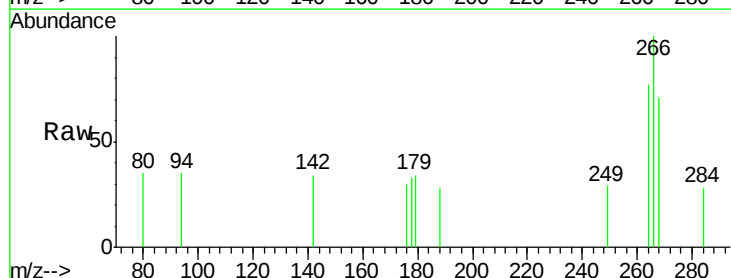
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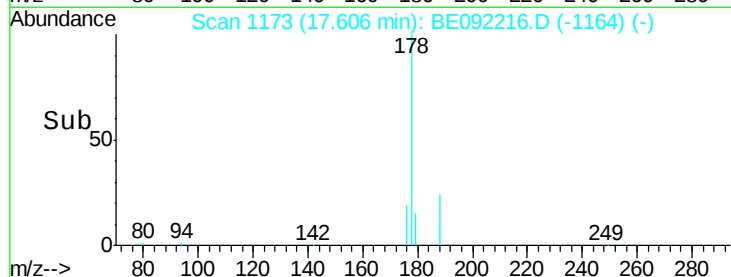
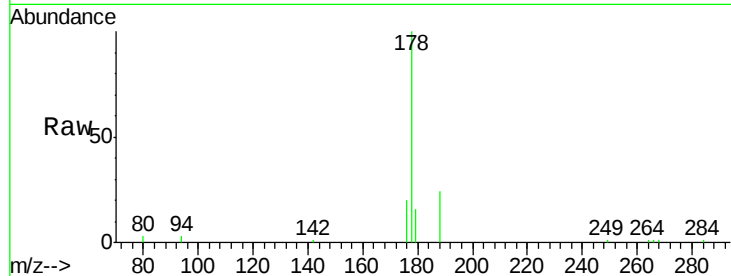
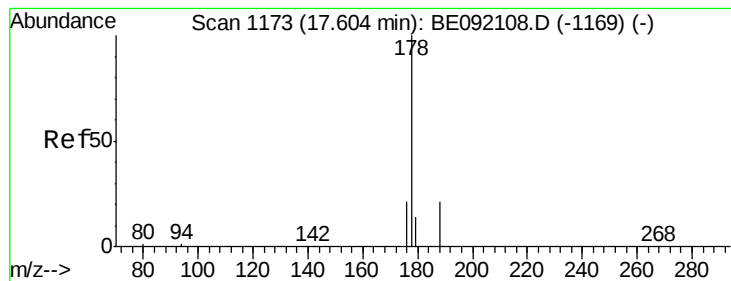
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#18
Pentachlorophenol
Concen: 0.44 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
266	100		
268	70.6	62.7	94.1
264	76.7	63.5	95.3





#19

Phenanthrene

Concen: 0.38 ng

RT: 17.61 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tot Ion:178	Resp:	7189
Ion Ratio	Lower	Upper
178	100	
176	19.3	15.4 23.0
179	16.0	12.7 19.1

Instrument :

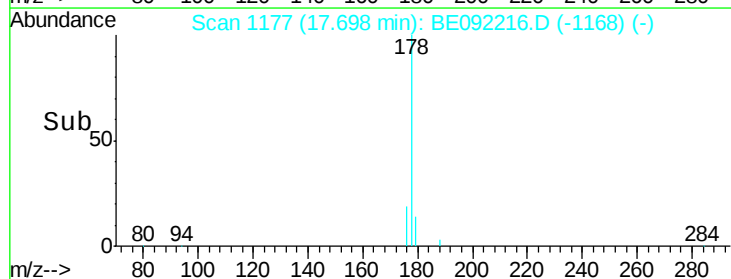
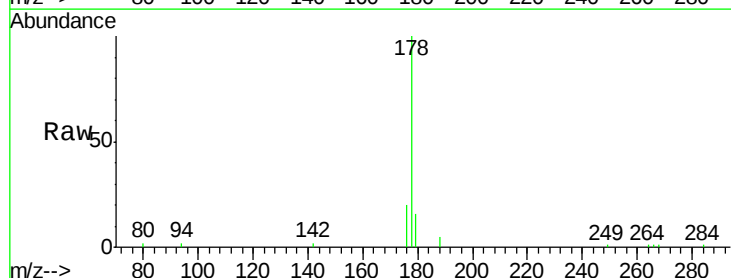
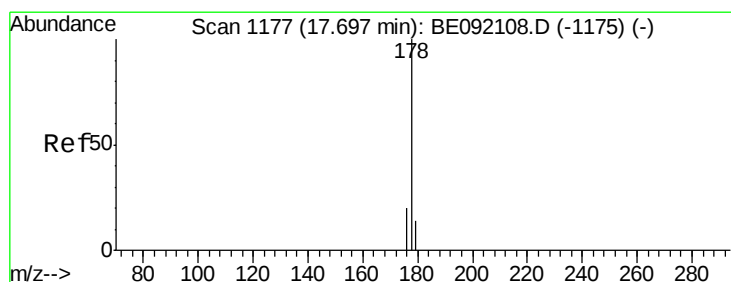
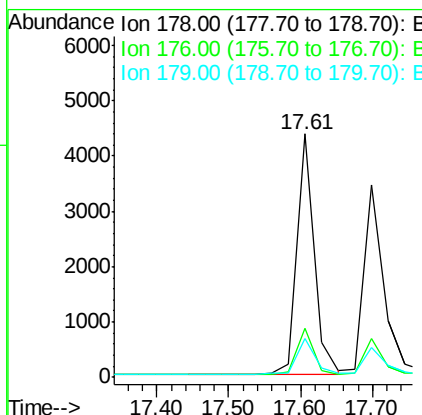
BNA_E

ClientSampleId :

SSTDCC0.4EC

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#20

Anthracene

Concen: 0.38 ng

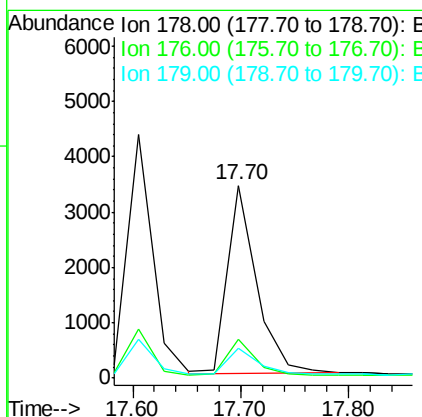
RT: 17.70 min Scan# 1177

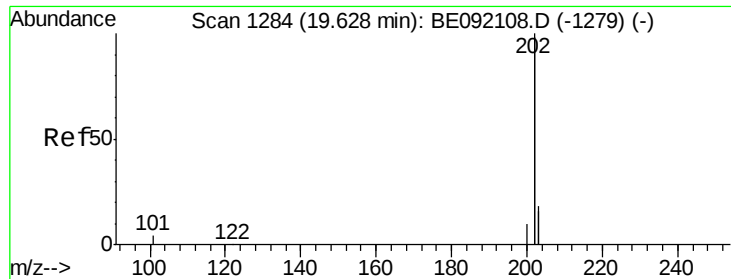
Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion:178	Resp:	6361
Ion Ratio	Lower	Upper
178	100	
176	18.5	15.2 22.8
179	14.9	12.2 18.4





#21

Fluoranthene

Concen: 0.37 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

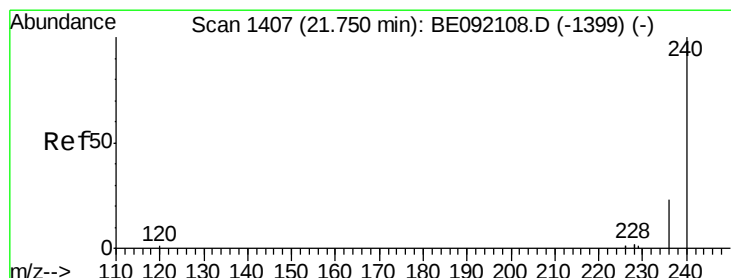
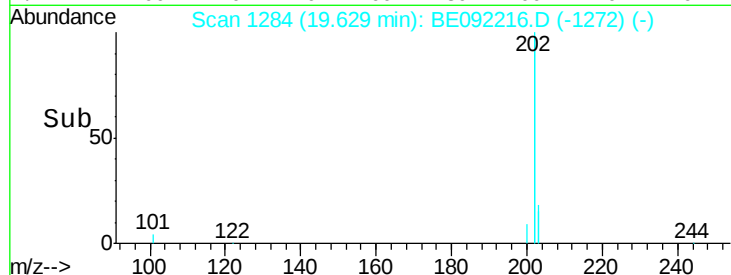
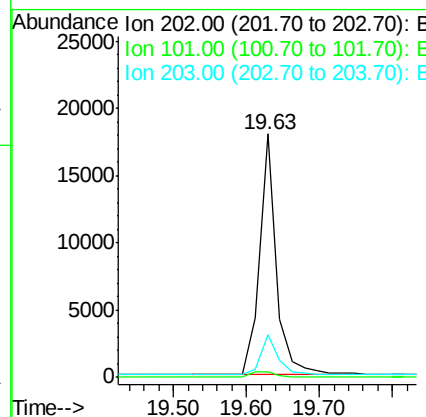
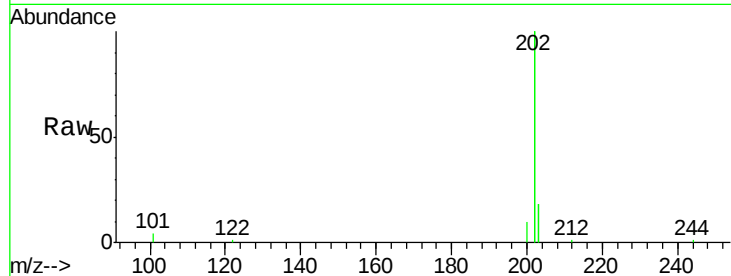
ClientSampleId :

SSTDCC0.4EC

Tot Ion:	202	Resp:	28916
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.2
203	17.3	13.0	19.4

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#22

Chrysene-d12

Concen: 5.00 ng

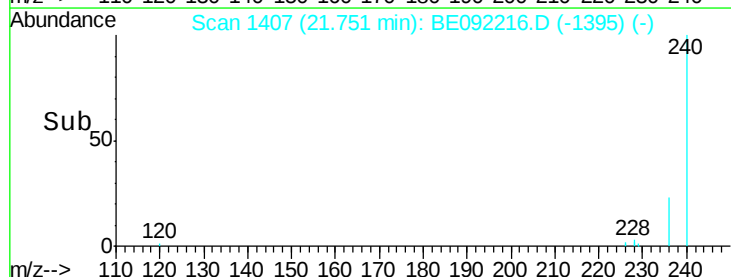
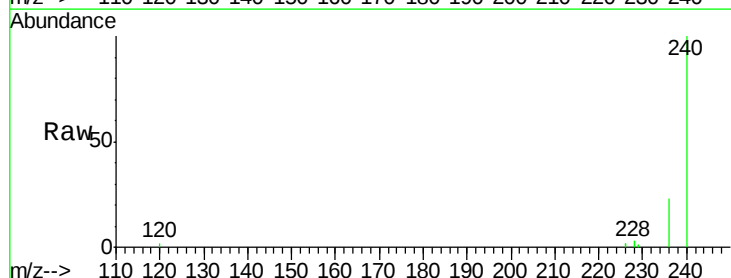
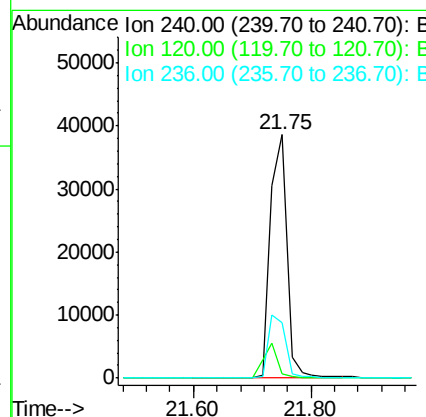
RT: 21.75 min Scan# 1407

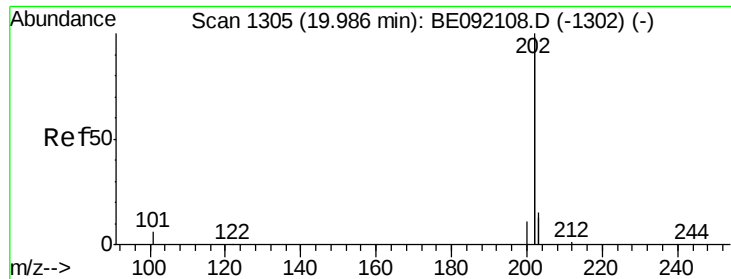
Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion:	240	Resp:	75777
Ion Ratio	Lower	Upper	
240	100		
120	1.6	0.6	1.0#
236	22.6	18.2	27.4





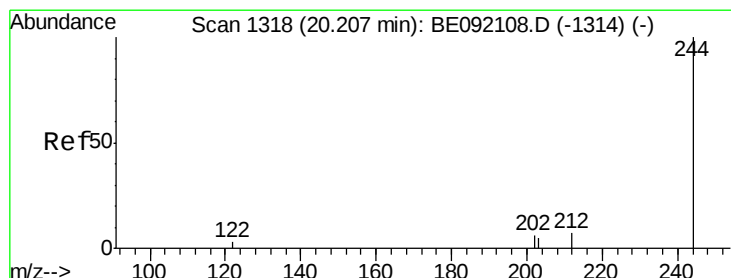
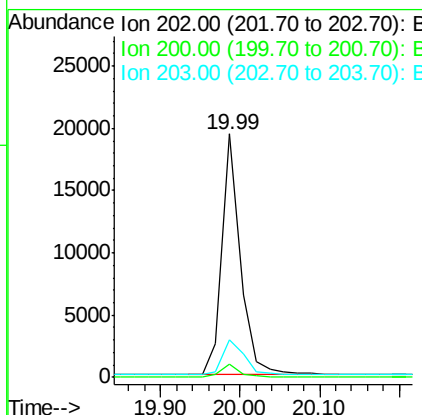
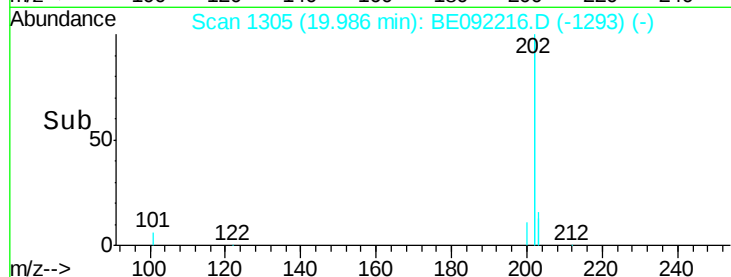
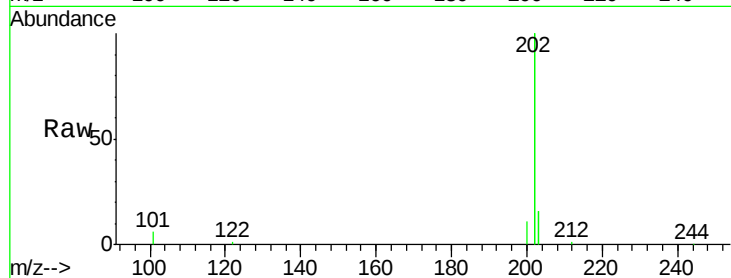
#23
Pvrene
Concen: 0.39 ng
RT: 19.99 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Instrument :
BNA_E
ClientSampleId :
SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.4	6.6
203	17.2	13.4	20.0

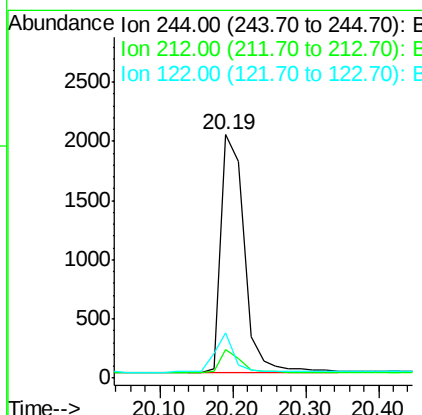
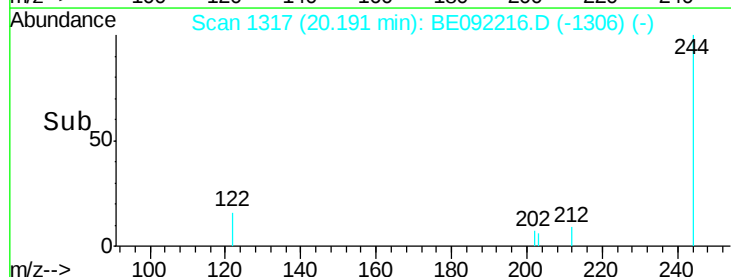
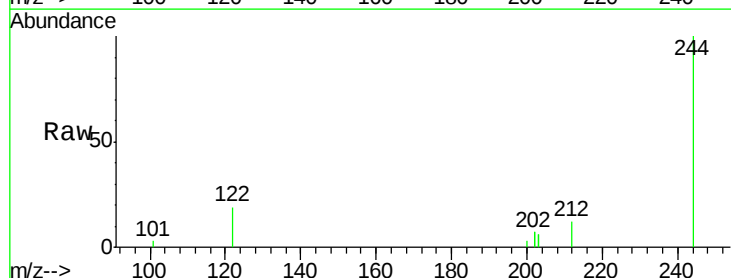
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#24
Terphenyl-d14
Concen: 0.41 ng
RT: 20.19 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.1	13.7
122	18.6	11.0	16.4





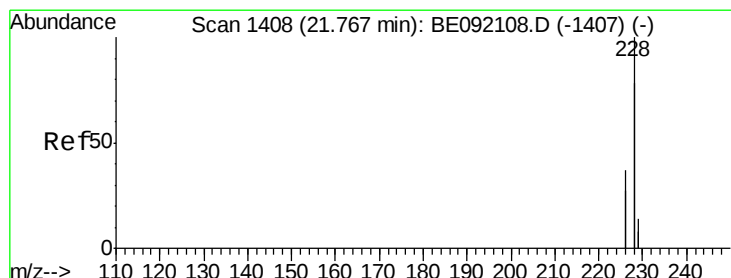
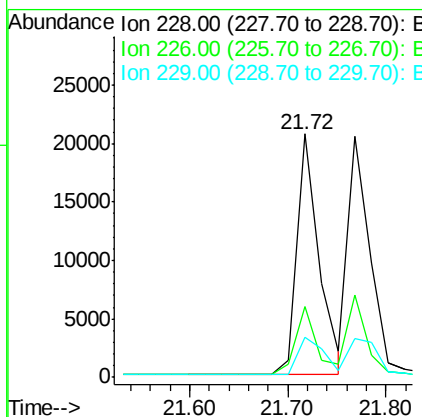
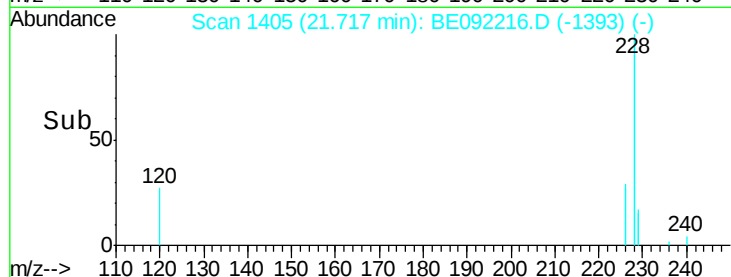
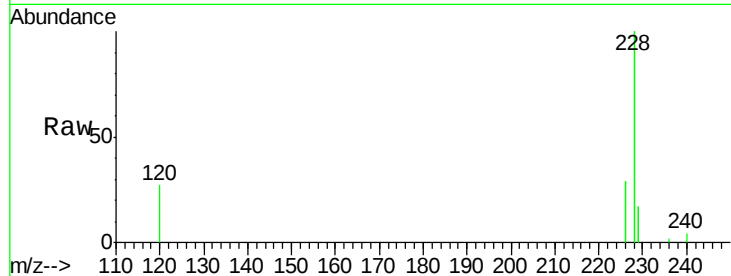
#25
Benzo(a)anthracene
Concen: 0.39 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Instrument :
BNA_E
ClientSampleId :
SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.1	33.1
229	16.6	15.1	22.7

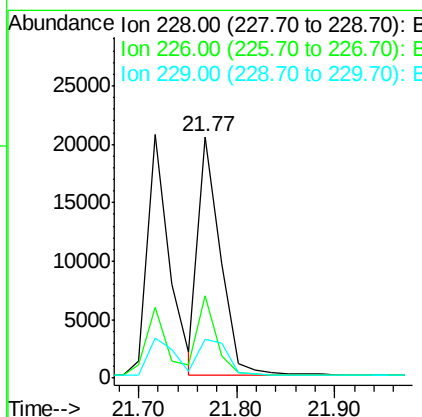
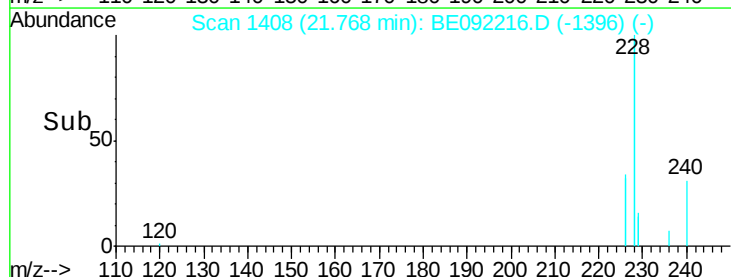
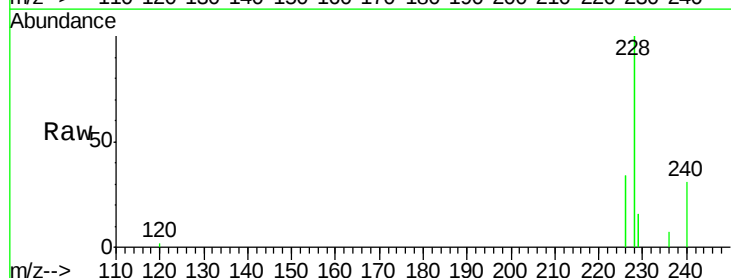
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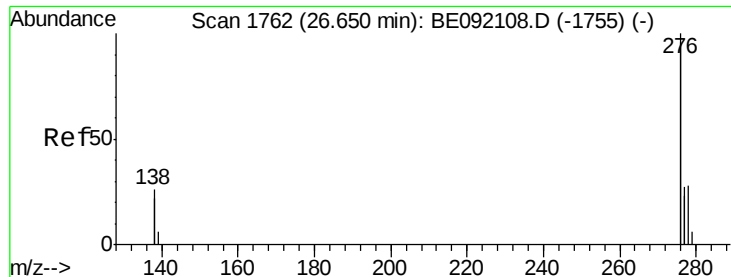
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#26
Chrysene
Concen: 0.39 ng
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.0	22.3	33.5#
229	15.8	16.9	25.3#





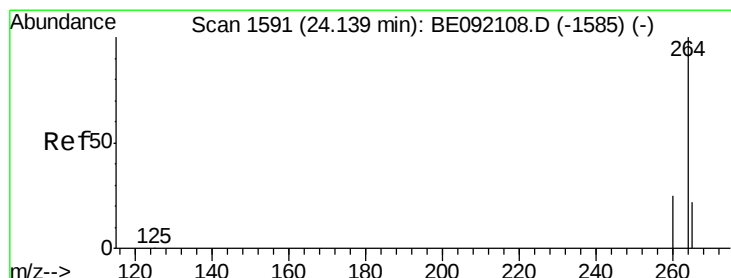
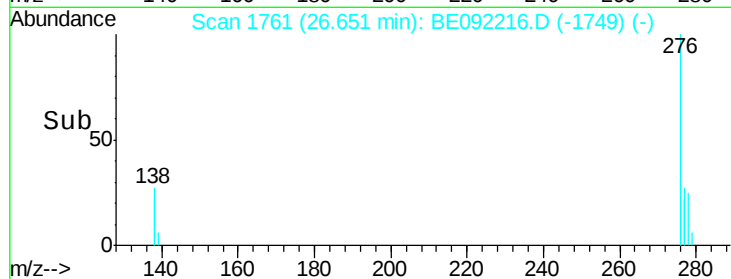
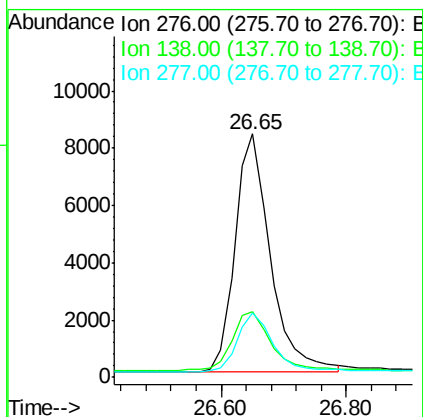
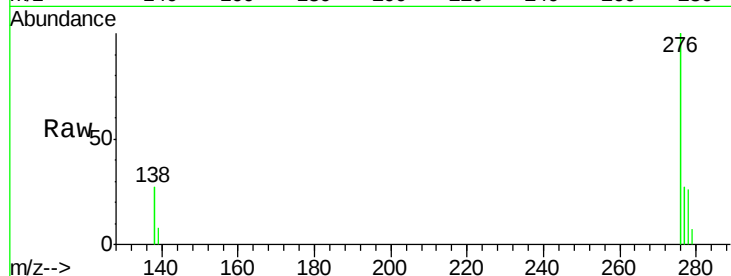
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.36 ng
RT: 26.65 min Scan# 1761
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Instrument :
BNA_E
ClientSampleId :
SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.2	21.2	31.8
277	24.6	19.8	29.8

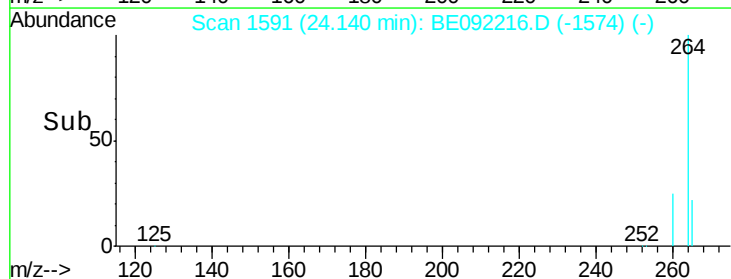
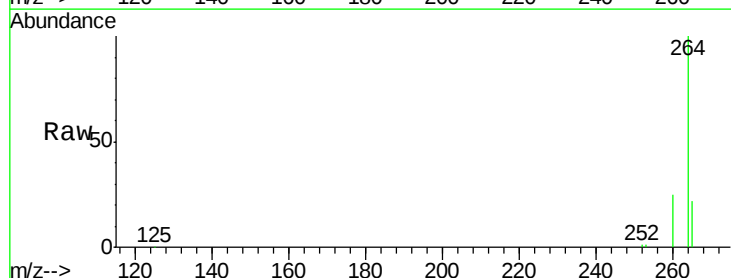
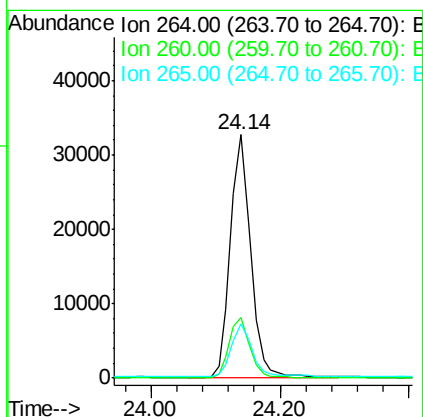
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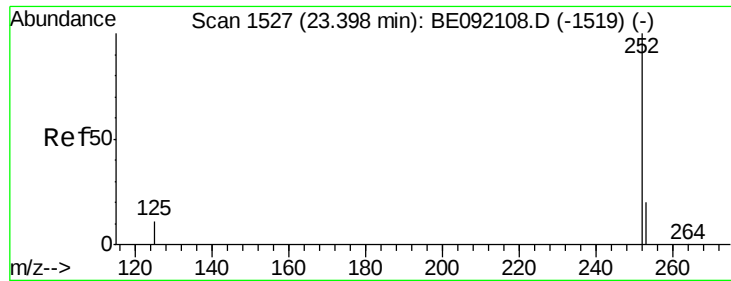
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#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092216.D
Acq: 5 Aug 2016 12:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	20.8	31.2
265	22.5	16.6	25.0





#29

Benzo(b)fluoranthene

Concen: 0.37 ng

RT: 23.40 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

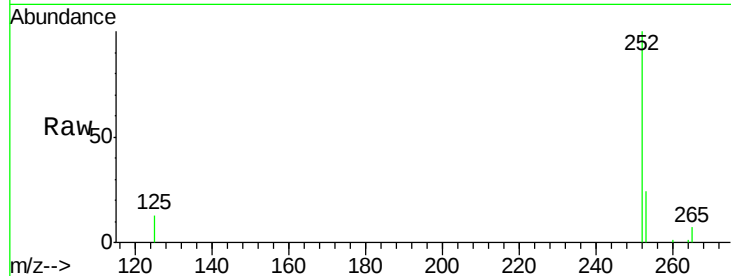
ClientSampleId :

SSTDCC0.4EC

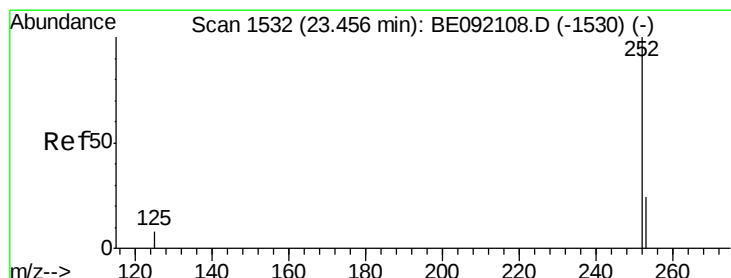
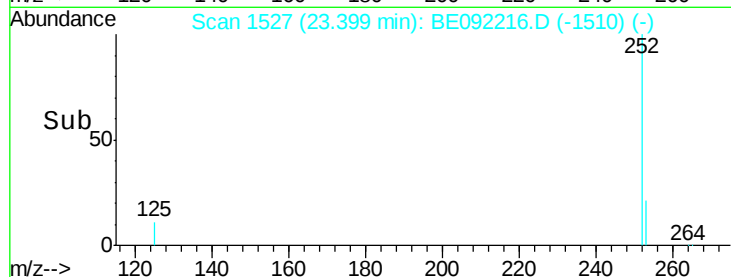
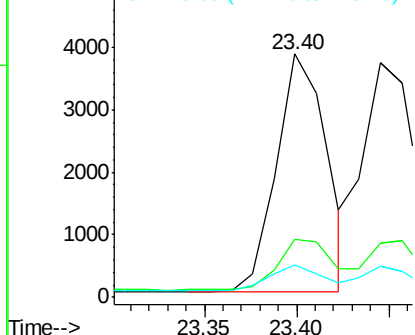
Tot Ion:252	Resp:	7251
Ion Ratio	Lower	Upper
252 100		
253 23.7	17.4	26.0
125 13.4	10.2	15.2

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#30

Benzo(k)fluoranthene

Concen: 0.40 ng

RT: 23.45 min Scan# 1531

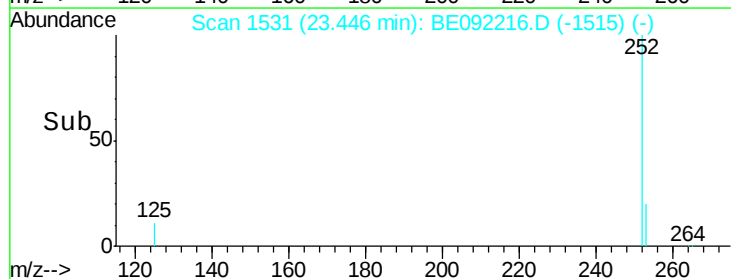
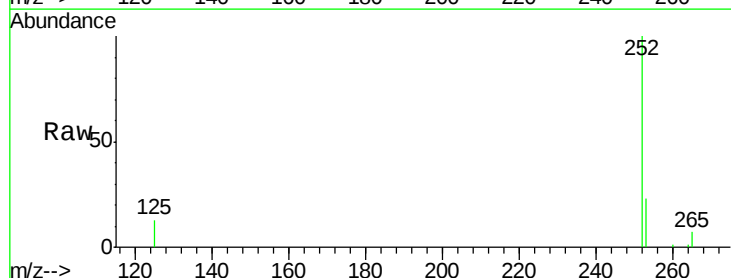
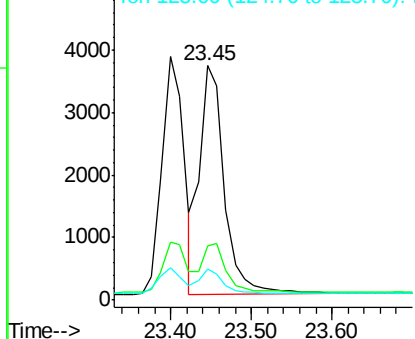
Delta R.T. -0.01 min

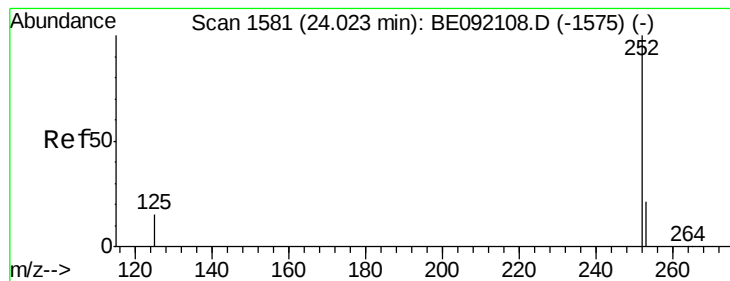
Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Tgt Ion:252	Resp:	7817
Ion Ratio	Lower	Upper
252 100		
253 23.1	19.4	29.0
125 13.2	8.9	13.3

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#31

Benzo(a)pyrene

Concen: 0.40 ng

RT: 24.02 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

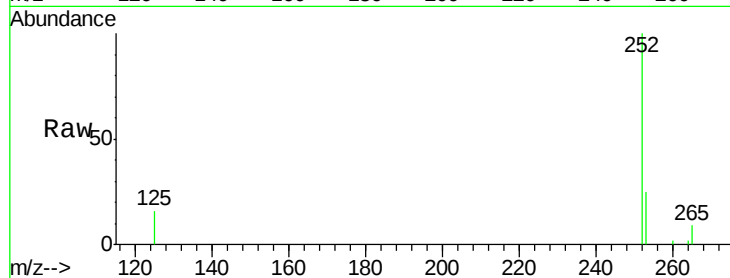
ClientSampleId :

SSTDCC0.4EC

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.8	29.8
125	15.9	10.4	15.6

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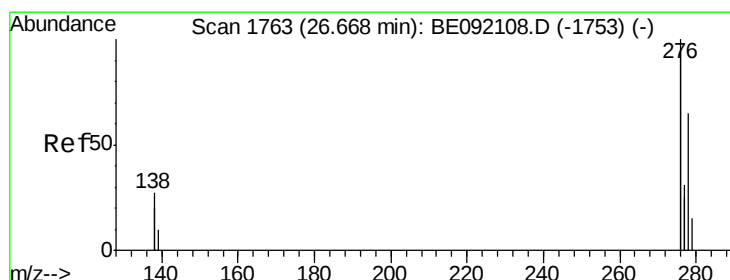
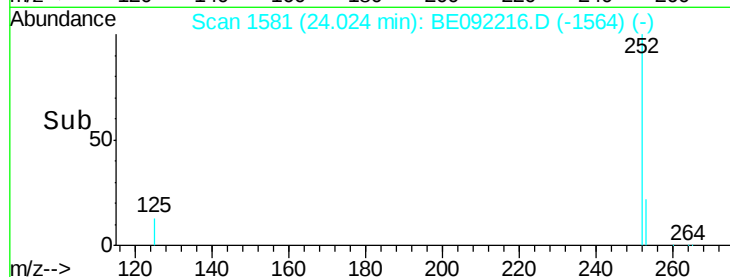
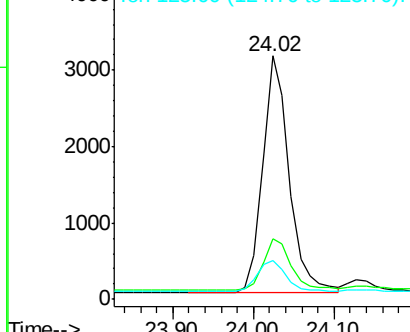


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#32

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 26.67 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

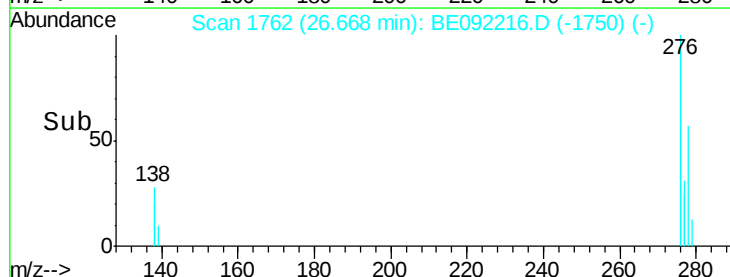
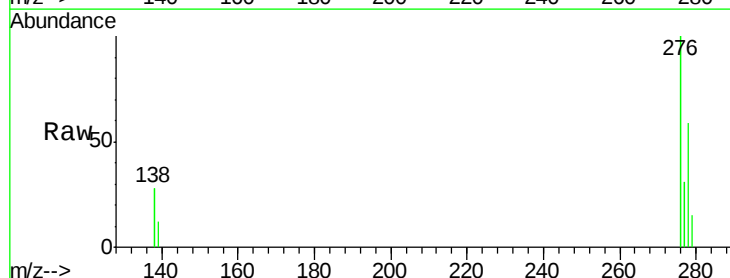
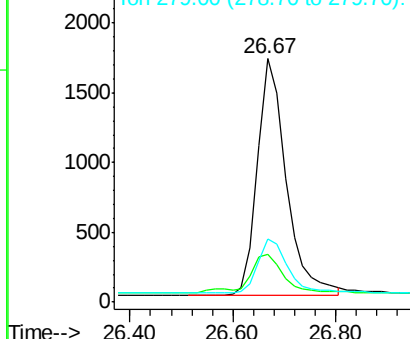
Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.9	16.7	25.1
279	26.0	20.3	30.5

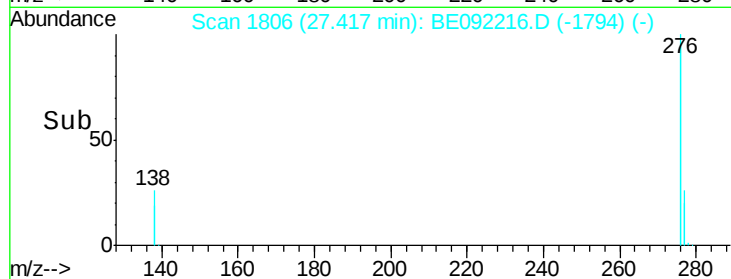
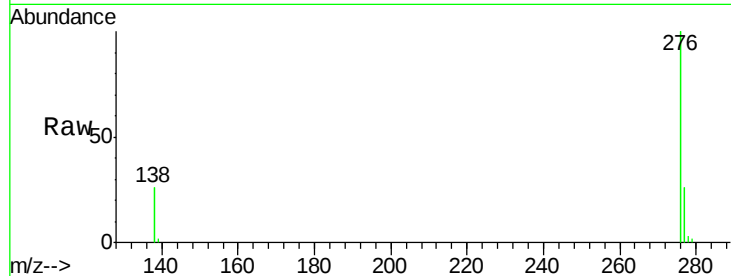
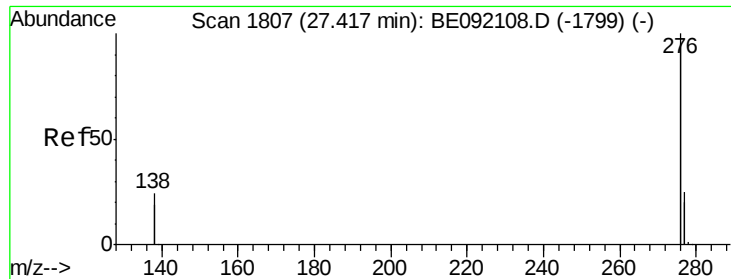
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Benzo(a,h,i)perylene

Concen: 0.38 ng

RT: 27.42 min Scan# 1806

Delta R.T. 0.00 min

Lab File: BE092216.D

Acq: 5 Aug 2016 12:42

Instrument :

BNA_E

ClientSampleId :

SSTDCC0.4EC

Tot Ion:	276	Resp:	27947
Ion Ratio	Lower	Upper	
276	100		
277	25.6	19.5	29.3
138	25.9	20.8	31.2

Manual Integrations
APPROVED

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