

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
 Data File : BE092113.D
 Acq On : 2 Aug 2016 15:59
 Operator : UM/SJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Manual Integrations
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Sohil
 8/3/2016 8:39:09 AM

Quant Time: Aug 02 16:54:03 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 13:43:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	11723	5.00	ng	0.00
6) Naphthalene-d8	10.99	136	56677	5.00	ng	0.00
10) Acenaphthene-d10	14.85	164	32518	5.00	ng	0.00
16) Phenanthrene-d10	17.56	188	69310	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	84283	5.00	ng	0.00
28) Perylene-d12	24.14	264	85078	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	31084	8.13	ng	0.00
5) Phenol-d6	7.34	99	45307	9.86	ng	-0.01
7) Nitrobenzene-d5	9.34	82	44511	9.15	ng	-0.01
11) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
12) 2-Fluorobiphenyl	13.46	172	98007	7.78	ng	0.00
24) Terphenyl-d14	20.19	244	126674	9.89	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.43	88	13623	8.05	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.78	42	22495	10.45	ng	# 98
8) Naphthalene	11.03	128	121431	9.30	ng	95
9) 2-Methylnaphthalene	12.65	142	80644	9.22	ng	98
13) Acenaphthylene	14.54	152	574208	7.97	ng	98
14) Acenaphthene	14.90	154	91312	9.18	ng	# 96
15) Fluorene	15.88	166	108164	7.23	ng	99
17) Hexachlorobenzene	16.89	284	32140	13.87	ng	# 60
19) Phenanthrene	17.60	178	185670	9.97	ng	98
20) Anthracene	17.70	178	192383	13.92	ng	99
21) Fluoranthene	19.63	202	826715	15.23	ng	97
23) Pvrene	19.99	202	868921	9.07	ng	98
25) Benzo(a)anthracene	21.72	228	900909	39.54	ng	95
26) Chrysene	21.77	228	854560	42.60	ng	# 86
27) Indeno(1,2,3-cd)pyrene	26.65	276	987080	11.04	ng	100
29) Benzo(b)fluoranthene	23.40	252	215561	9.13	ng	98
30) Benzo(k)fluoranthene	23.45	252	220809	9.15	ng	96
31) Benzo(a)pyrene	24.02	252	212160	9.68	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	202929	9.96	ng	# 93
33) Benzo(a,h,i)perylene	27.42	276	841593	9.83	ng	96

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

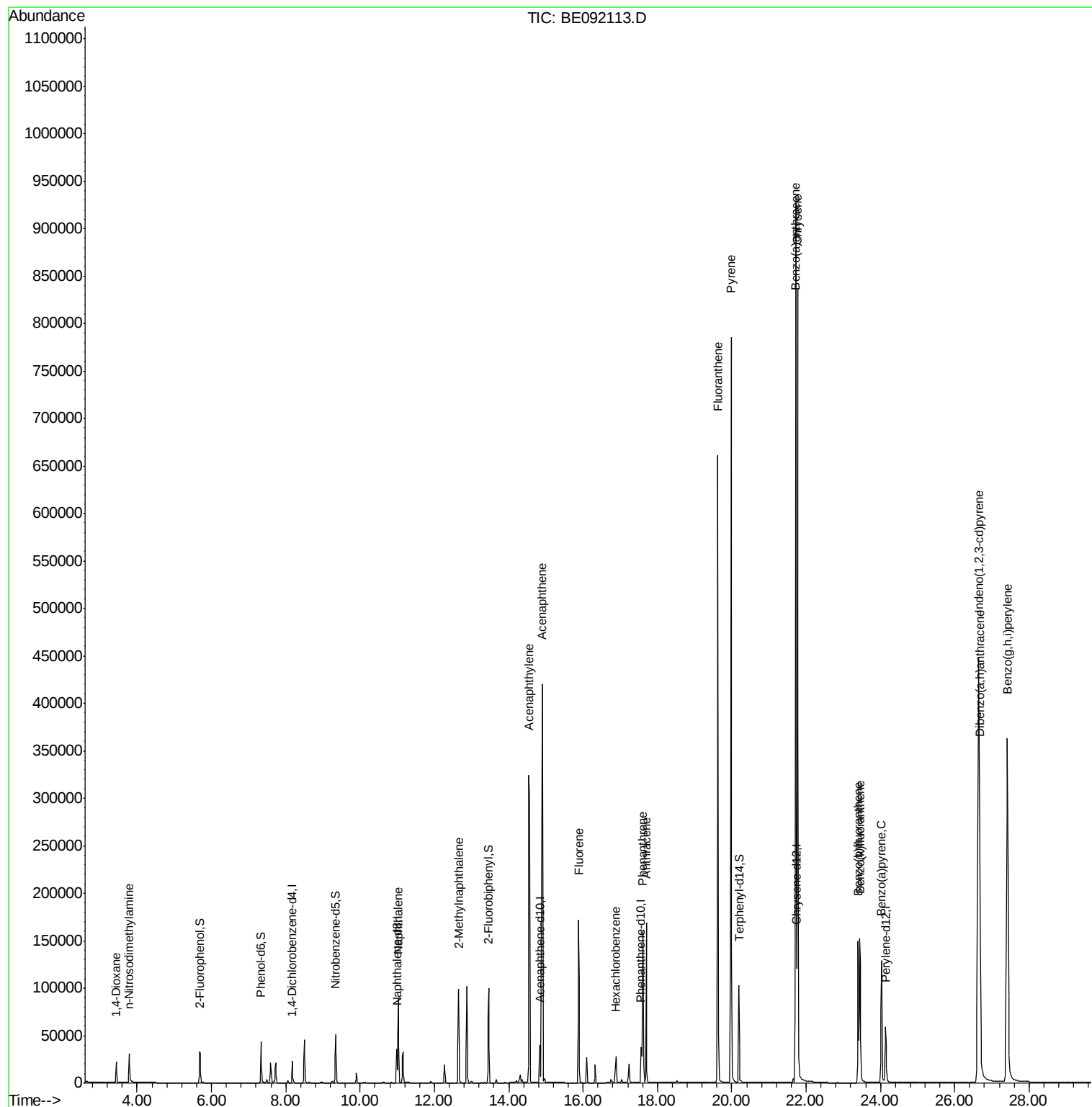
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Instrument :

BNA_E

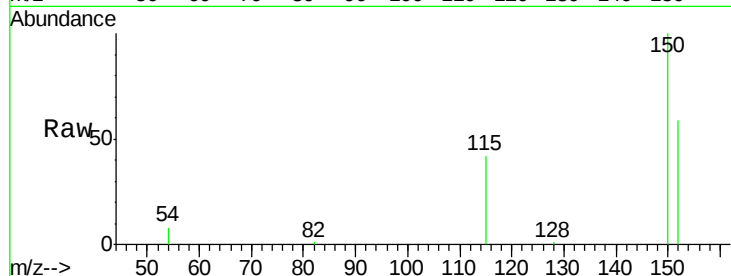
ClientSampled :

SSTDIC010

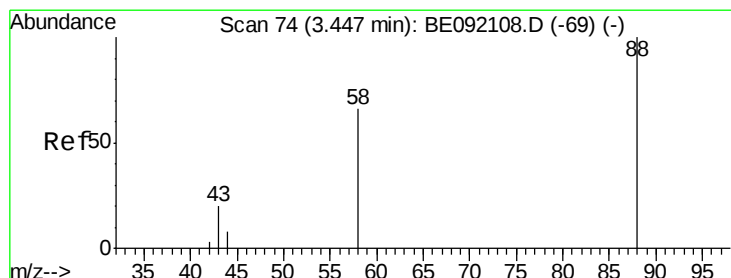
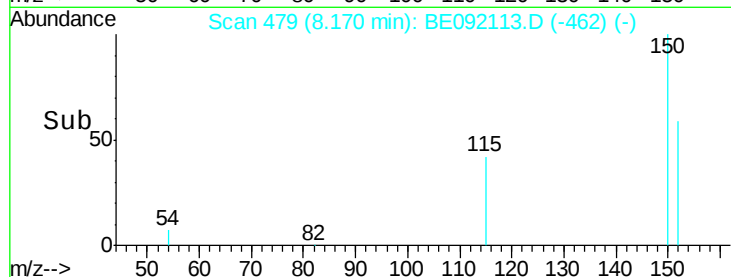
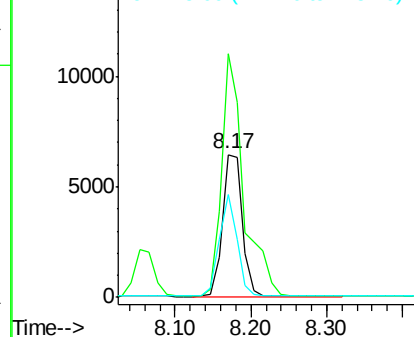
Tot Ion	Ratio	Lower	Upper
152	100		
150	170.1	106.0	159.0#
115	72.2	36.9	55.3#

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 8.05 ng

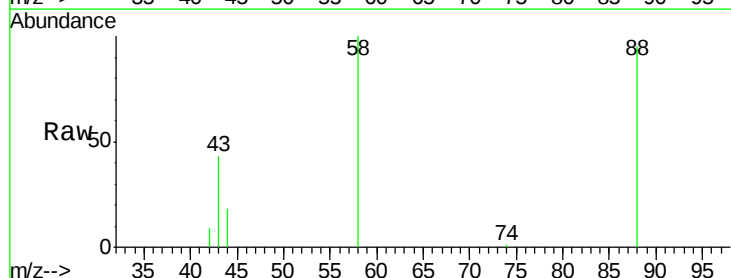
RT: 3.43 min Scan# 73

Delta R.T. -0.01 min

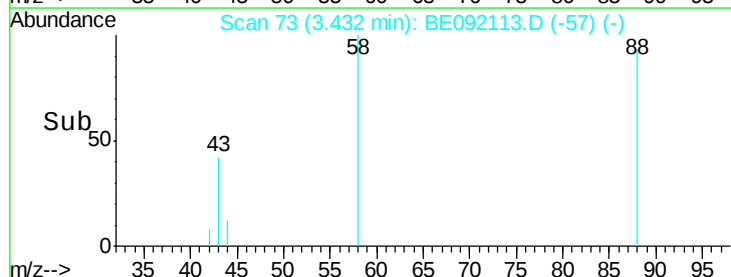
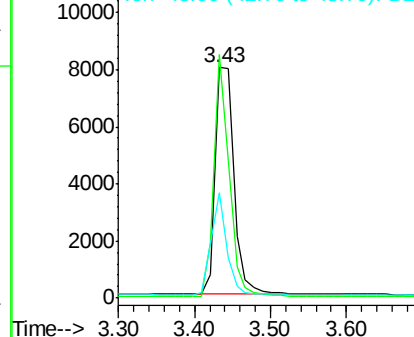
Lab File: BE092113.D

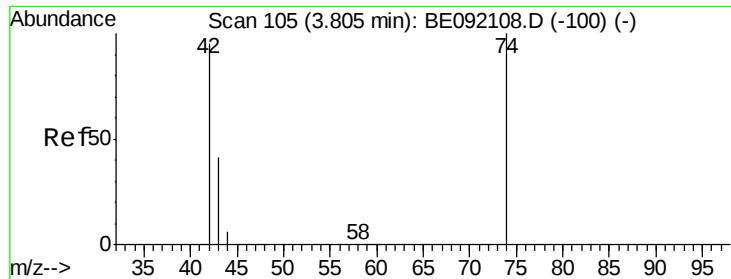
Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
88	100		
58	86.2	62.1	93.1
43	36.7	27.2	40.8



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

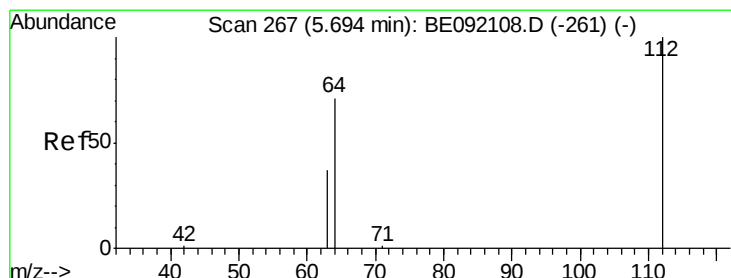
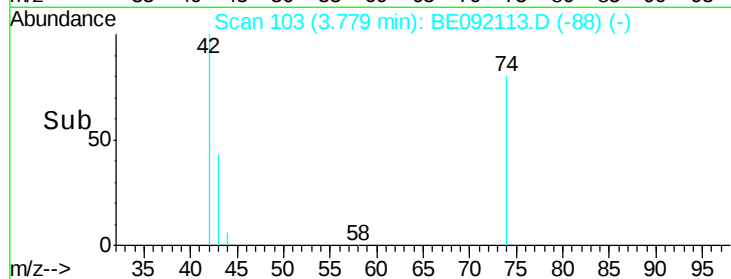
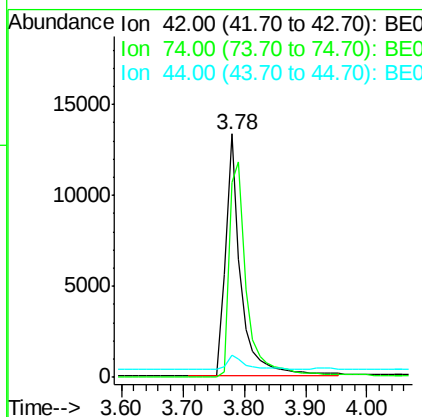
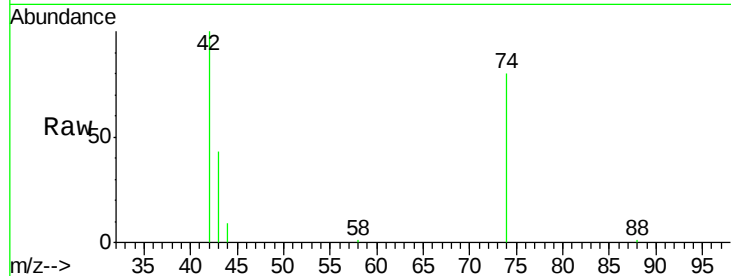
n-Nitrosodimethylamine
 Concen: 10.45 ng
 RT: 3.78 min Scan# 103
 Delta R.T. -0.03 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
42	100		
74	104.3	82.8	124.2
44	6.2	9.0	13.4

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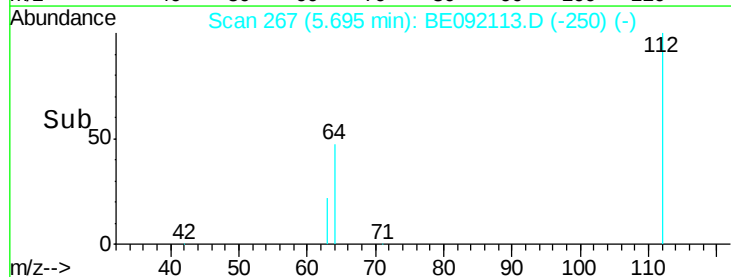
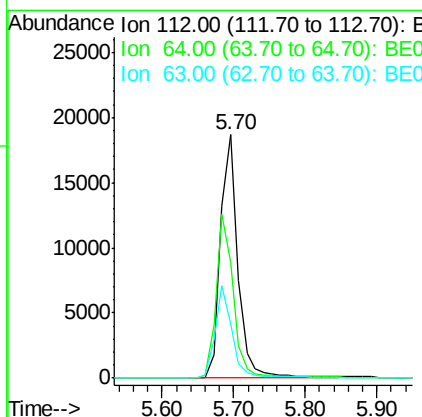
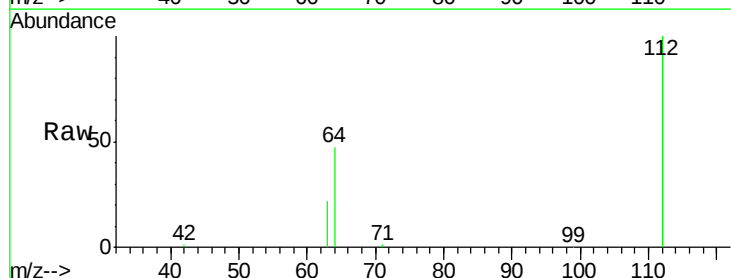
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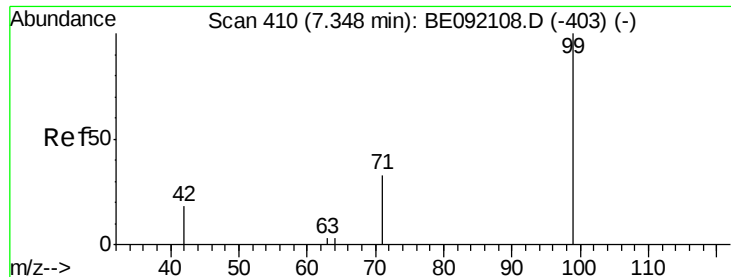


#4

2-Fluorophenol
 Concen: 8.13 ng
 RT: 5.70 min Scan# 267
 Delta R.T. 0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.6	55.9	83.9
63	36.2	31.1	46.7





#5

Phenol-d6

Concen: 9.86 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Instrument :

BNA_E

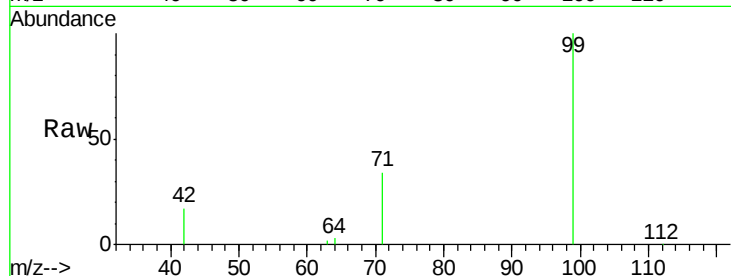
ClientSampleId :

SSTDICC010

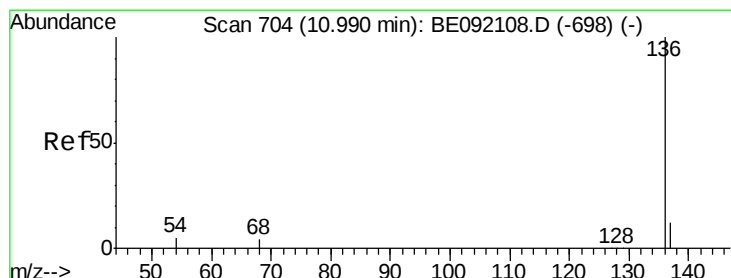
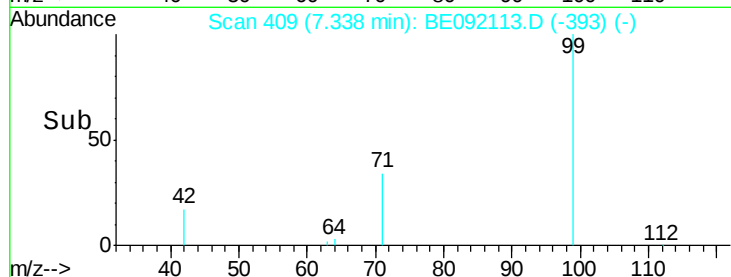
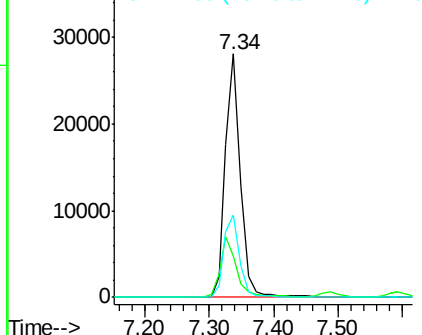
Tot Ion:	99	Resp:	45307
Ion Ratio	Lower	Upper	
99	100		
42	26.0	22.4	33.6
71	35.5	28.9	43.3

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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 704

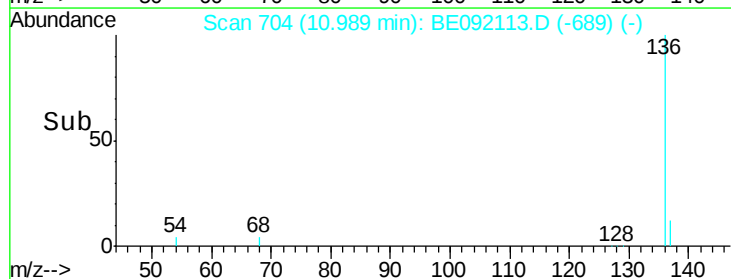
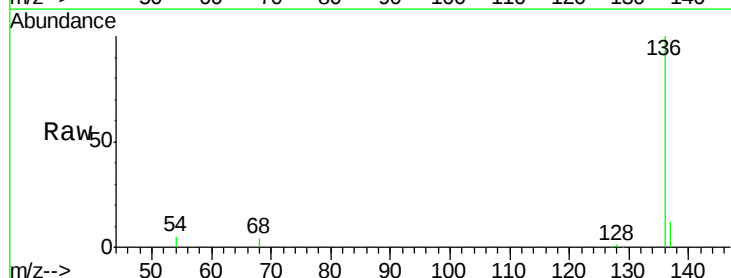
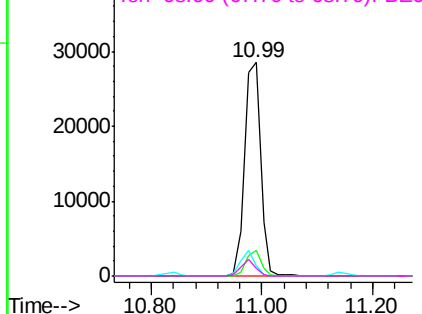
Delta R.T. -0.00 min

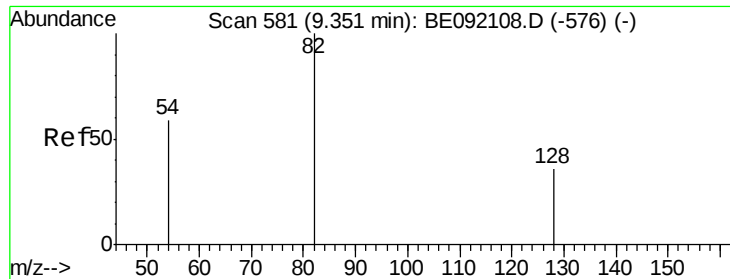
Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Tgt Ion:	136	Resp:	56677
Ion Ratio	Lower	Upper	
136	100		
137	11.9	9.1	13.7
54	4.6	2.7	4.1#
68	3.7	2.2	3.4#

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 9.15 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Instrument :

BNA_E

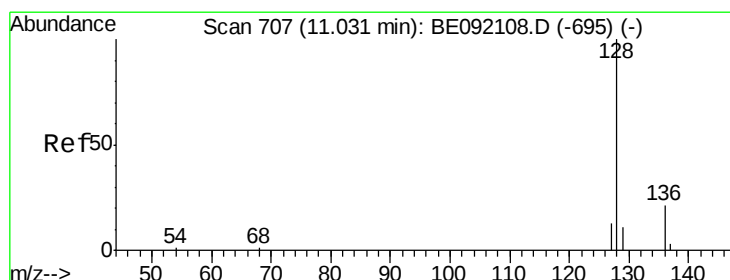
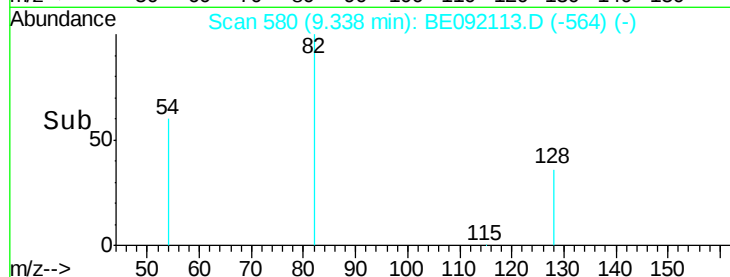
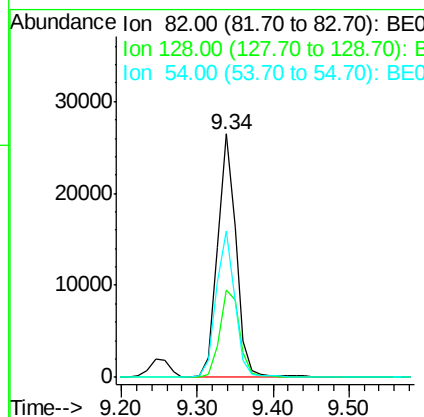
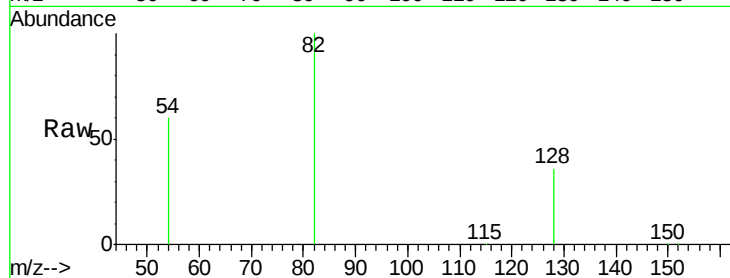
ClientSampleId :

SSTDICC010

Tot Ion:	82	Resp:	44511
Ion Ratio	Lower	Upper	
82	100		
128	35.7	33.0	49.4
54	59.8	42.6	63.8

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#8

Naphthalene

Concen: 9.30 ng

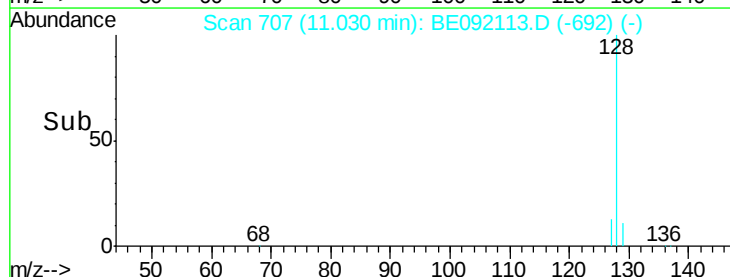
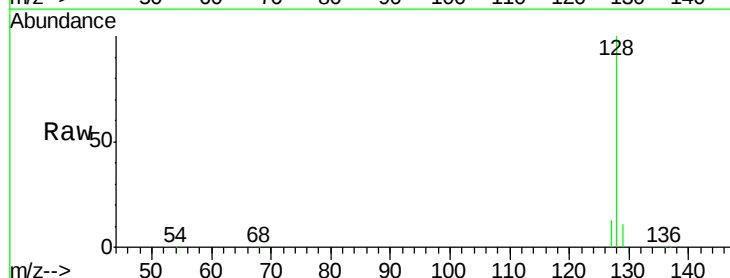
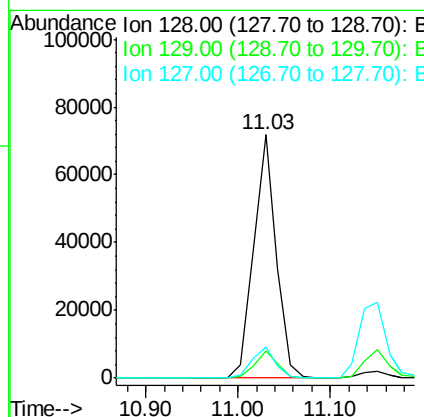
RT: 11.03 min Scan# 707

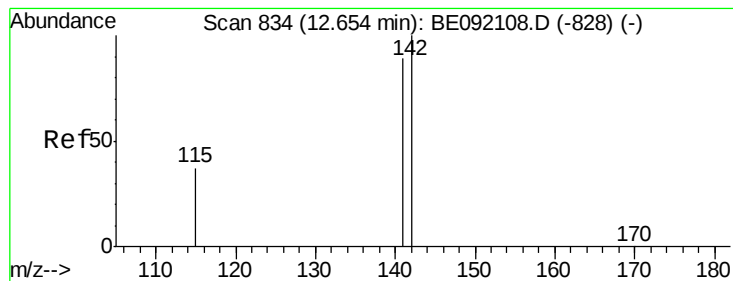
Delta R.T. -0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Tgt Ion:	128	Resp:	121431
Ion Ratio	Lower	Upper	
128	100		
129	11.2	11.1	16.7
127	12.8	11.3	16.9





#9

2-Methylnaphthalene

Concen: 9.22 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Instrument :

BNA_E

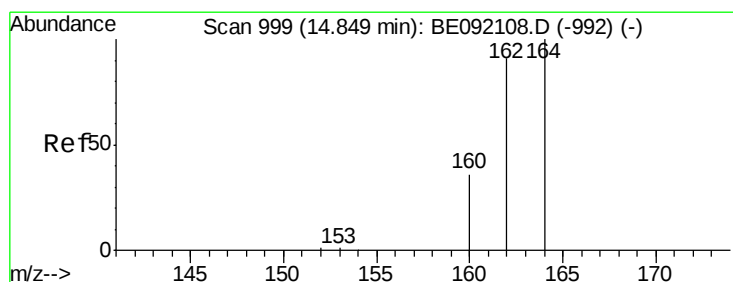
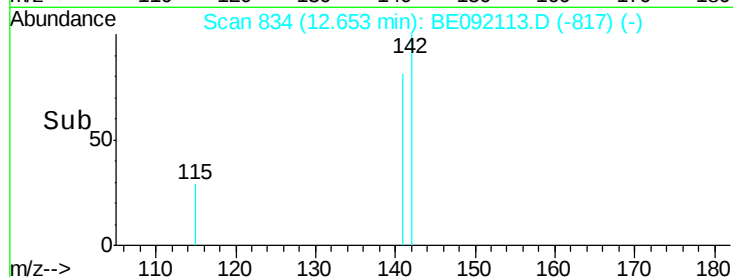
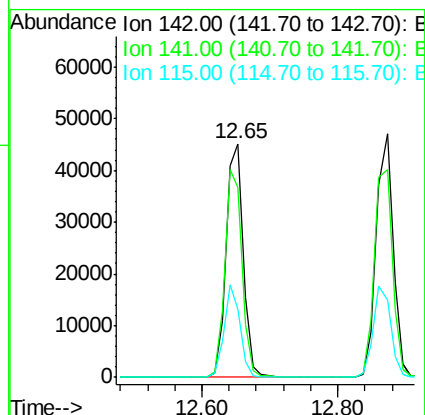
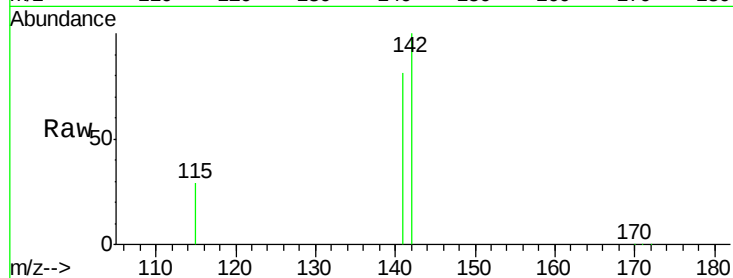
ClientSampleId :

SSTDIC010

Tot Ion:	142	Resp:	80644
Ion Ratio	Lower	Upper	
142	100		
141	81.3	65.1	97.7
115	29.4	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

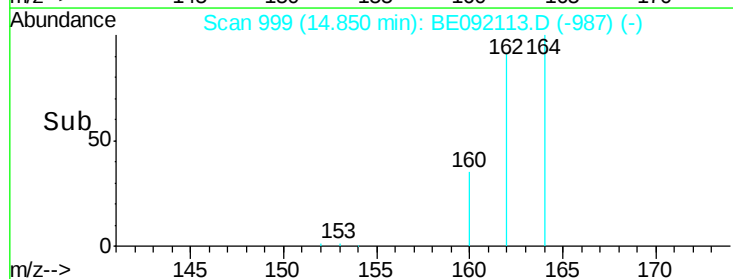
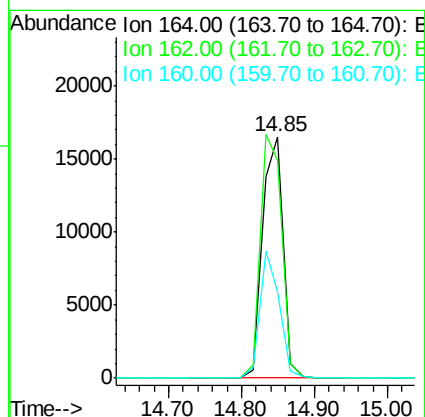
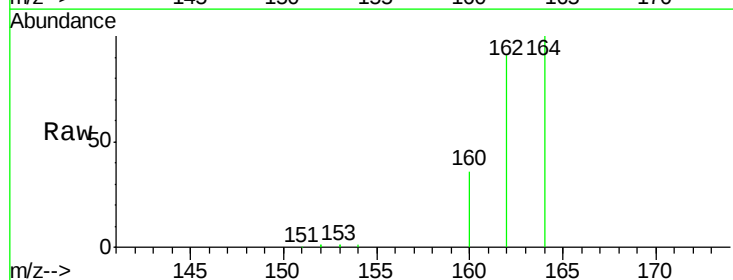
RT: 14.85 min Scan# 999

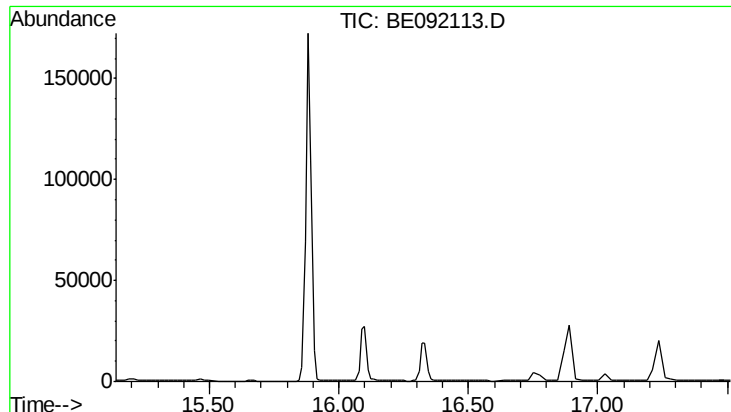
Delta R.T. 0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Tgt Ion:	164	Resp:	32518
Ion Ratio	Lower	Upper	
164	100		
162	90.5	69.5	104.3
160	35.5	27.6	41.4





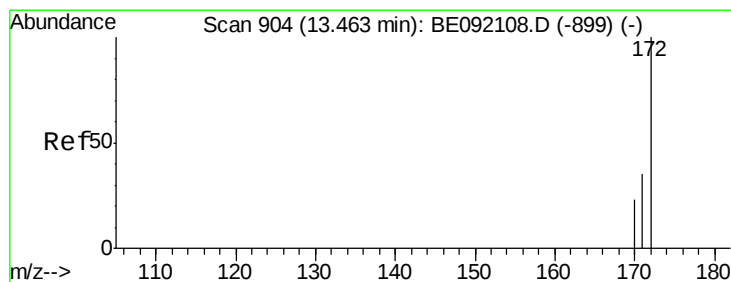
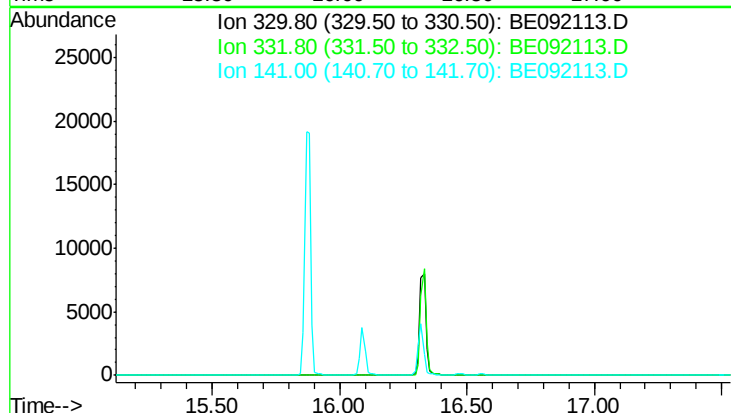
#11
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 16.33 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 92.8
 141 174.8

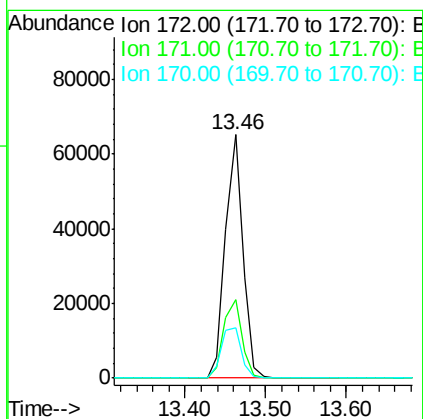
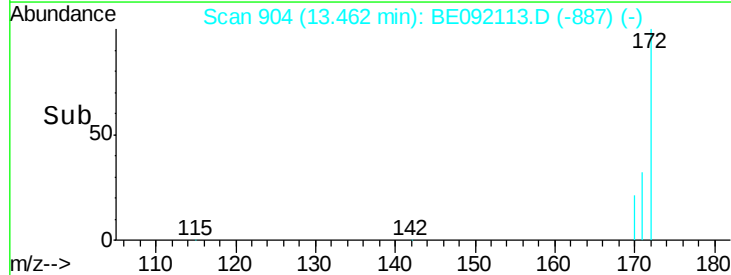
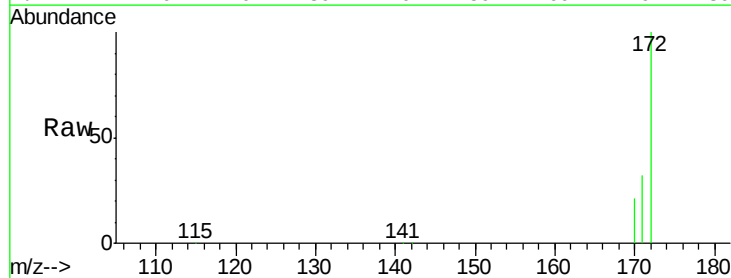
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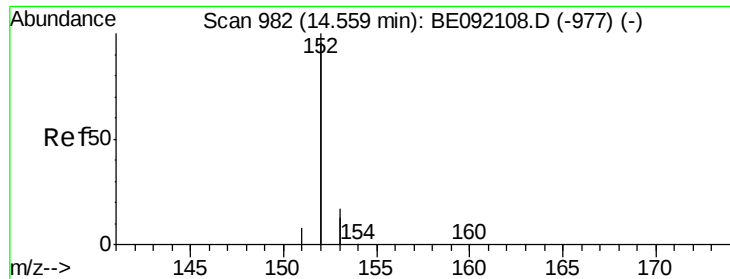
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#12
 2-Fluorobiphenyl
 Concen: 7.78 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Tgt Ion: 172 Resp: 98007
 Ion Ratio Lower Upper
 172 100
 171 32.2 30.3 45.5
 170 20.6 21.6 32.4#





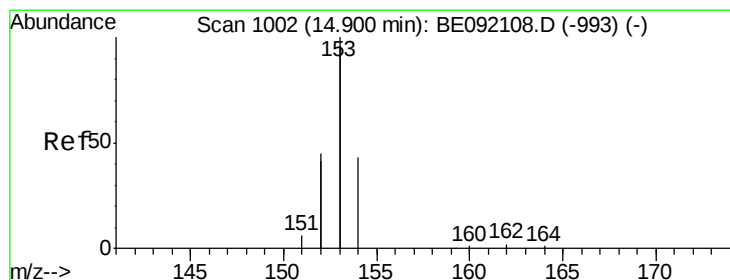
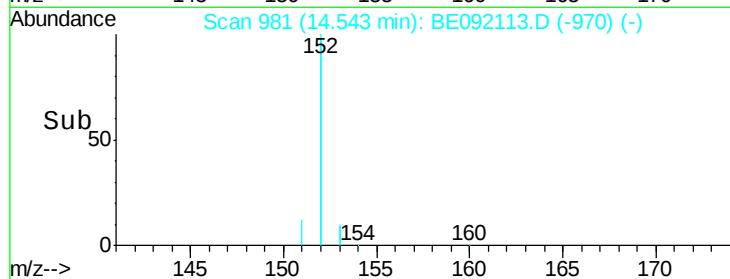
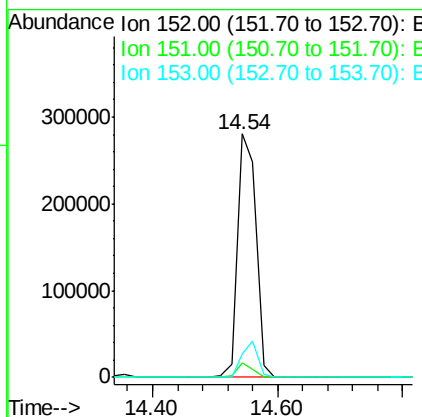
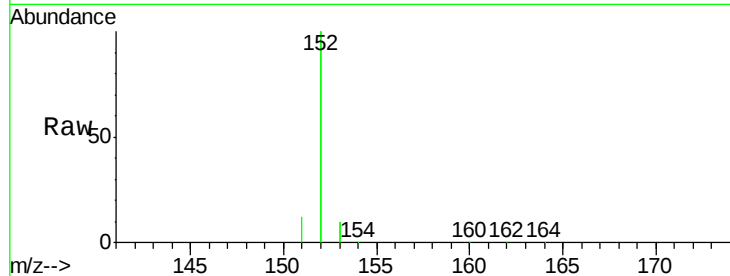
#13
Acenaphthylene
Concen: 7.97 ng
RT: 14.54 min Scan# 981
Delta R.T. -0.02 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion	Ratio	Lower	Upper
152	100		
151	5.0	4.0	6.0
153	13.2	9.6	14.4

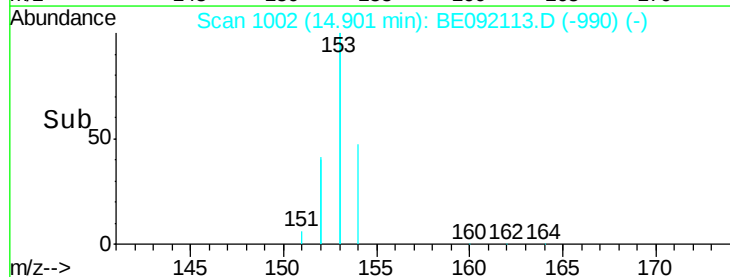
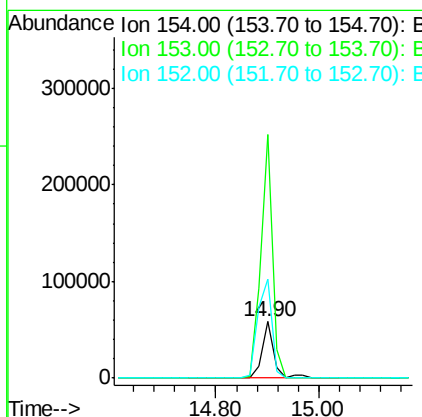
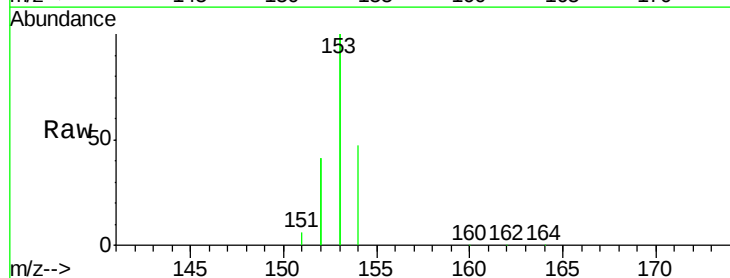
Manual Integrations
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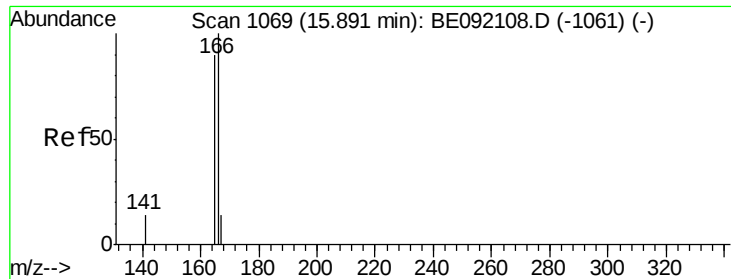
Sohil
8/3/2016 8:39:09 AM



#14
Acenaphthene
Concen: 9.18 ng
RT: 14.90 min Scan# 1002
Delta R.T. 0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	421.2	345.1	517.7
152	206.3	0.0	0.0#





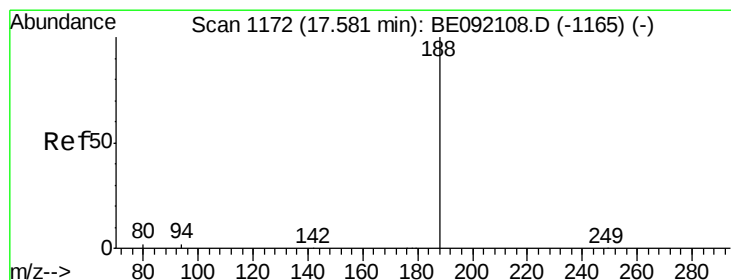
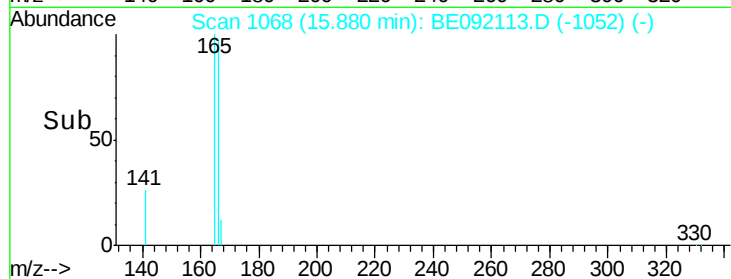
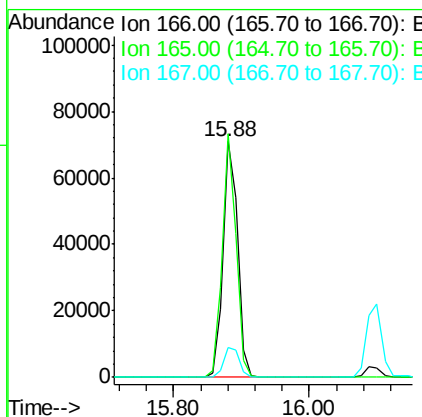
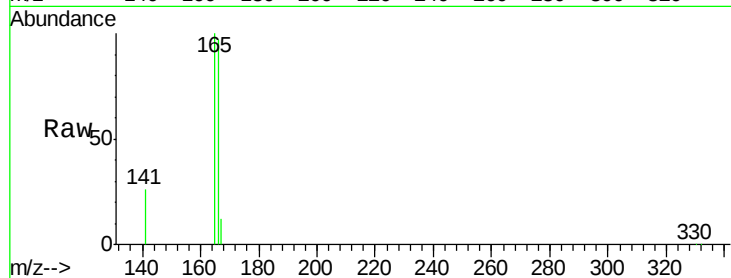
#15
Fluorene
Concen: 7.23 ng
RT: 15.88 min Scan# 1068
Delta R.T. -0.01 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.6	118.0
167	13.6	11.1	16.7

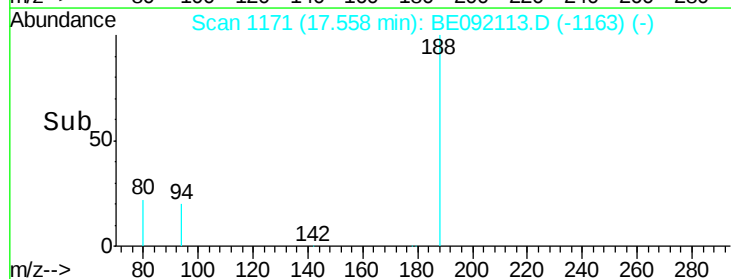
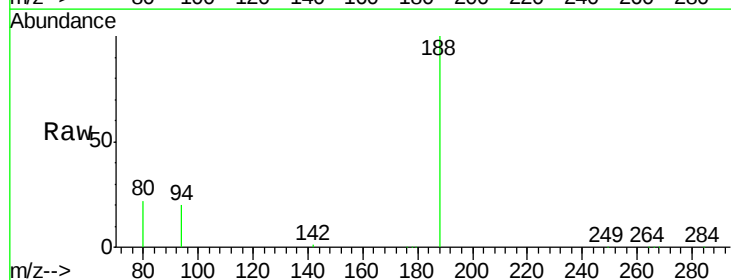
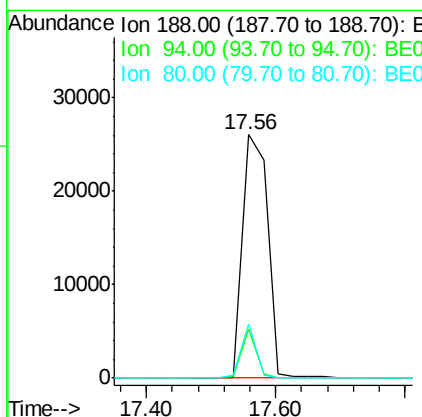
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#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	20.4	3.9	5.9#
80	22.0	3.4	5.0#





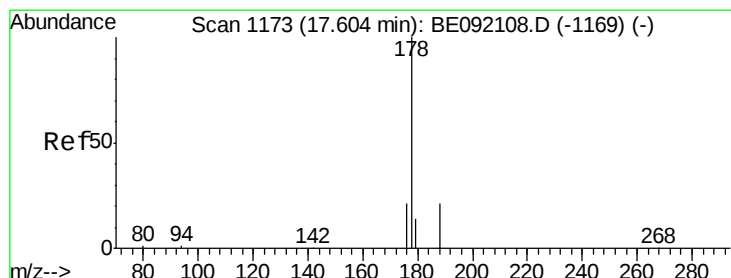
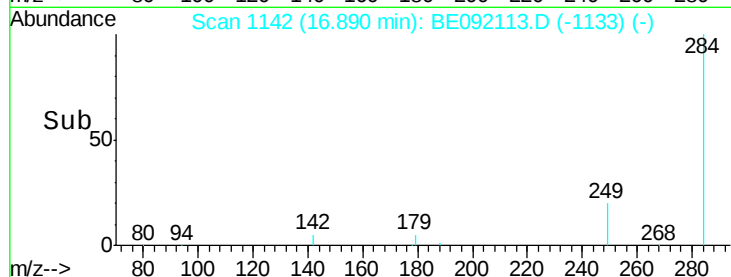
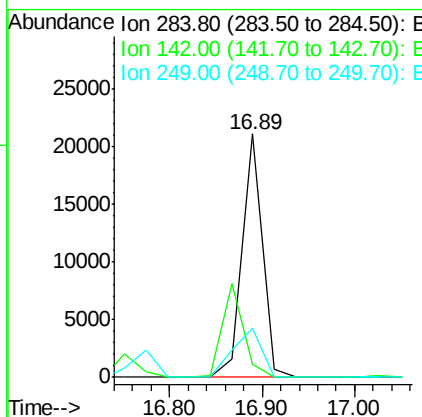
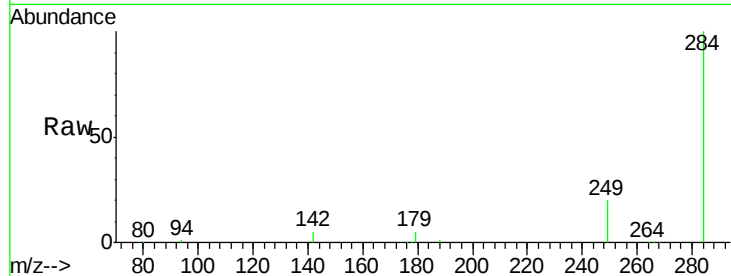
#17
Hexachlorobenzene
Concen: 13.87 ng
RT: 16.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Instrument :
BNA_E
ClientSampled :
SSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
284	100	32140		
142	0.0	33.3	49.9	
249	28.2	25.4	38.0	

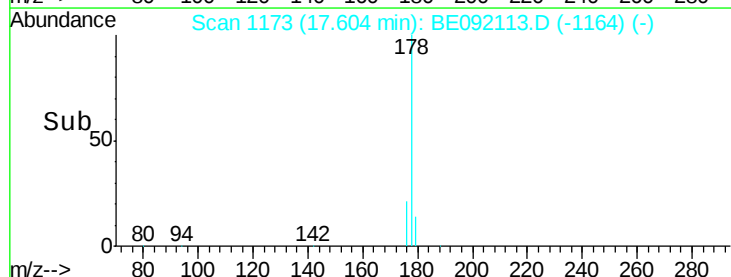
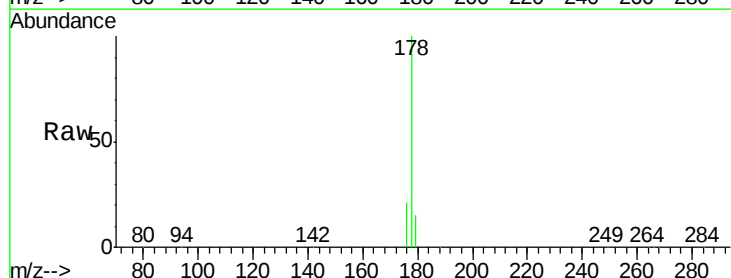
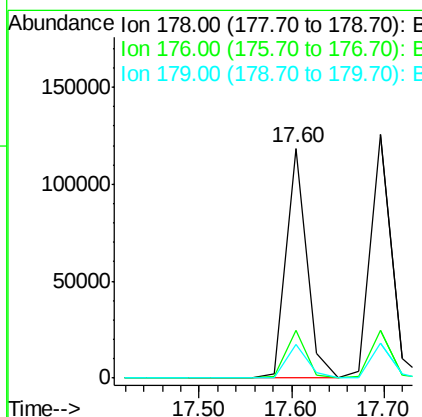
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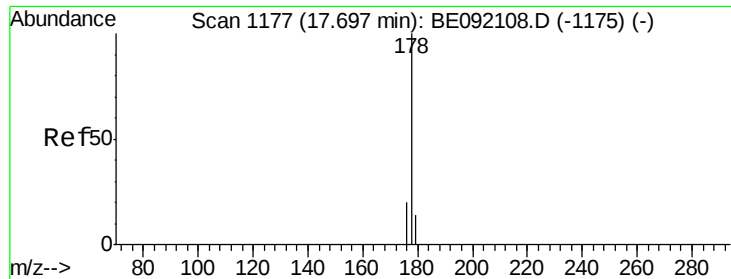
Sohil
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#19
Phenanthrene
Concen: 9.97 ng
RT: 17.60 min Scan# 1173
Delta R.T. -0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	185670		
176	20.2	15.4	23.0	
179	15.1	12.7	19.1	





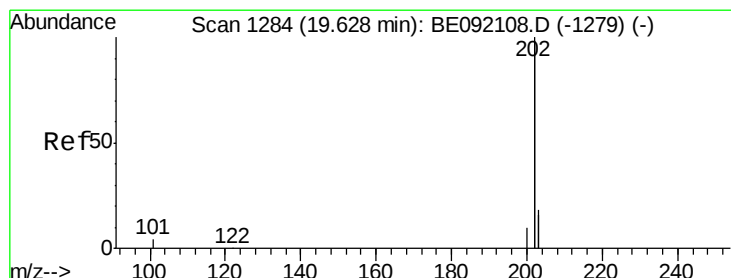
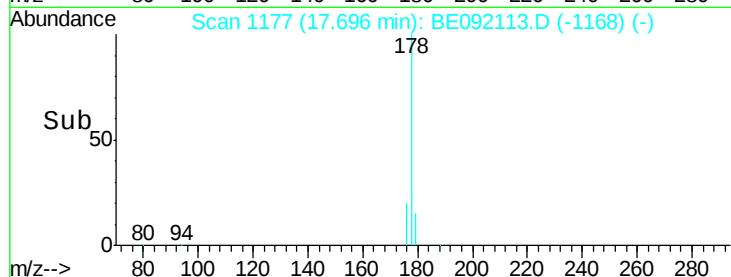
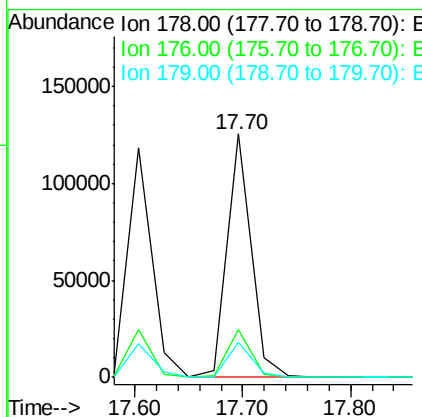
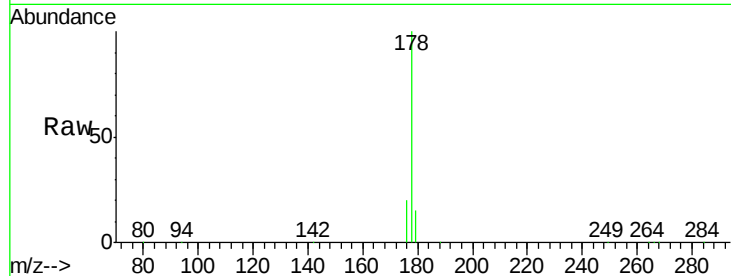
#20
 Anthracene
 Concen: 13.92 ng
 RT: 17.70 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	14.9	12.2	18.4

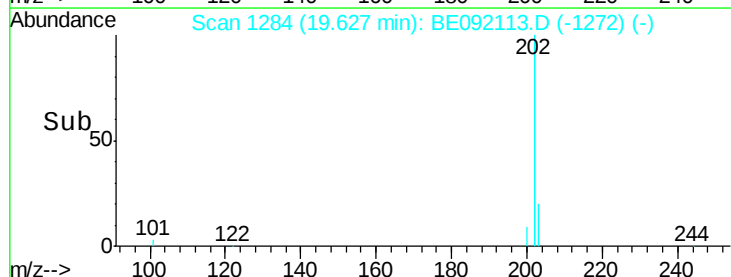
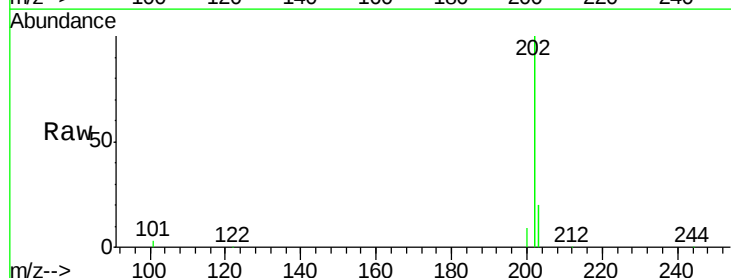
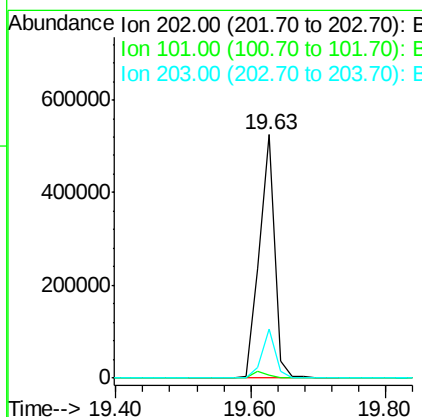
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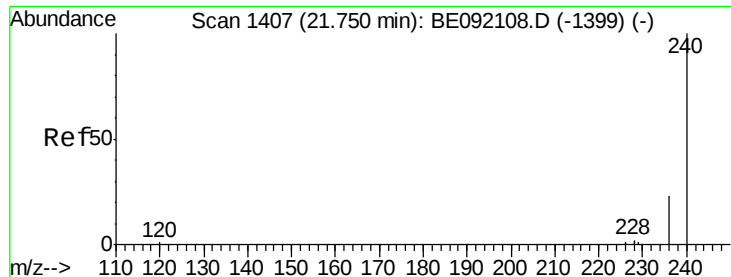
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#21
 Fluoranthene
 Concen: 15.23 ng
 RT: 19.63 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	2.8	2.2	3.2
203	17.6	13.0	19.4





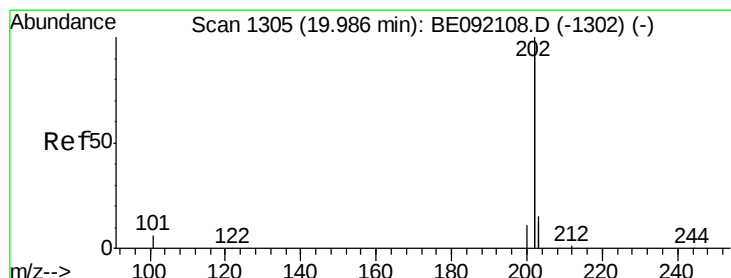
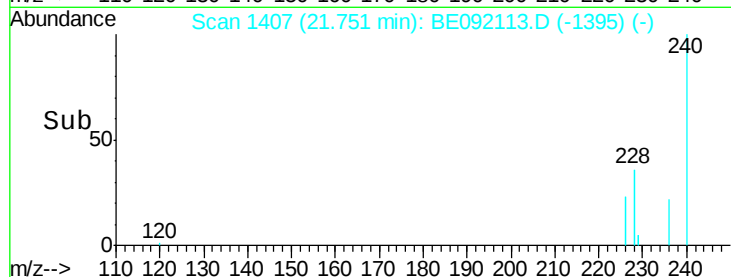
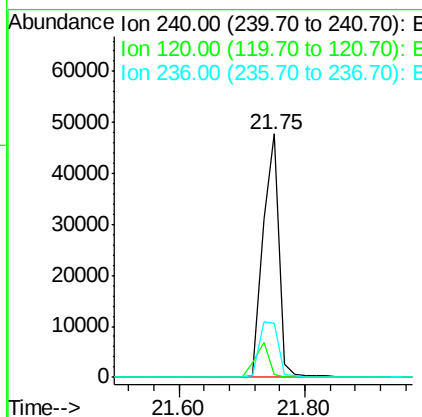
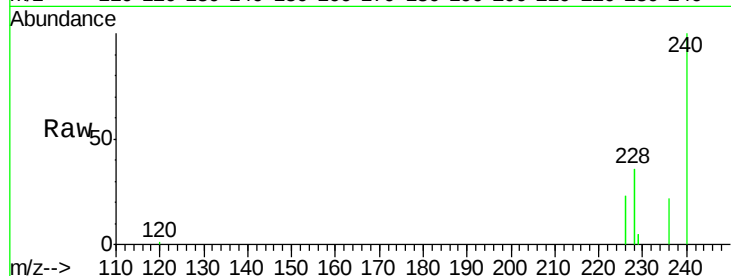
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1407
Delta R.T. 0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tot Ion	Ratio	Lower	Upper
240	100		
120	1.1	0.6	1.0#
236	22.3	18.2	27.4

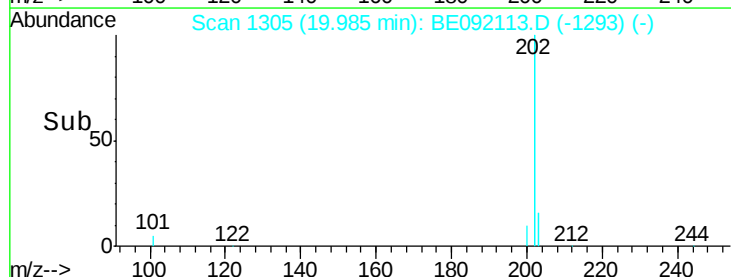
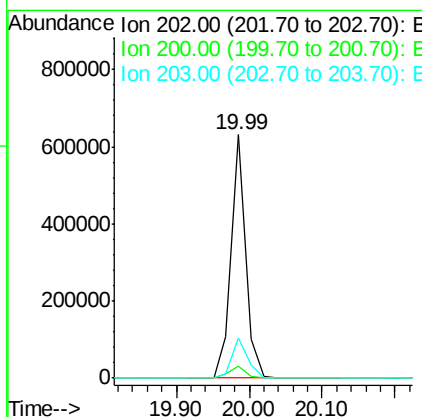
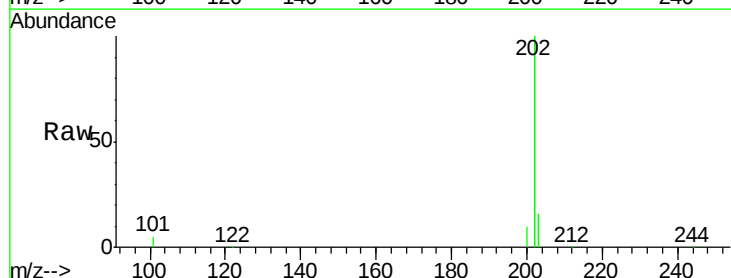
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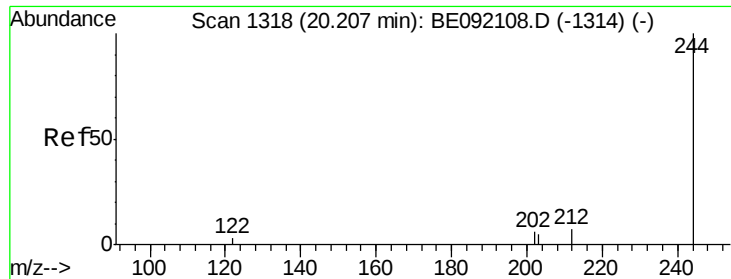
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#23
Pyrene
Concen: 9.07 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.4	4.4	6.6
203	17.7	13.4	20.0





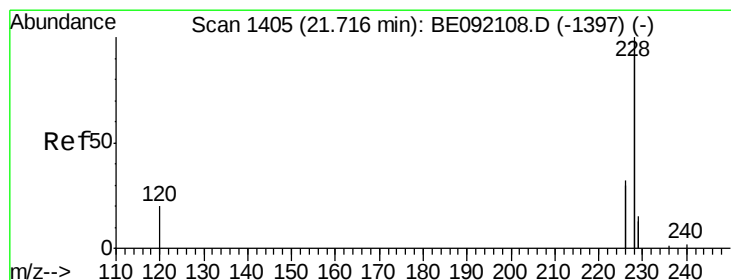
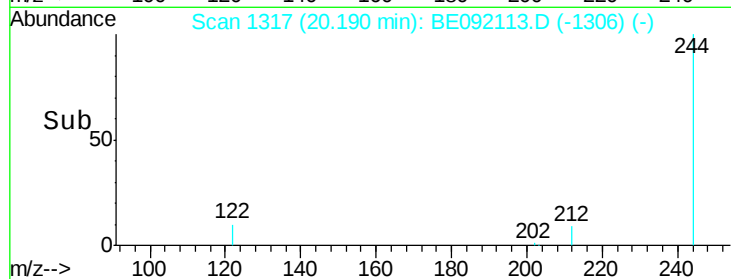
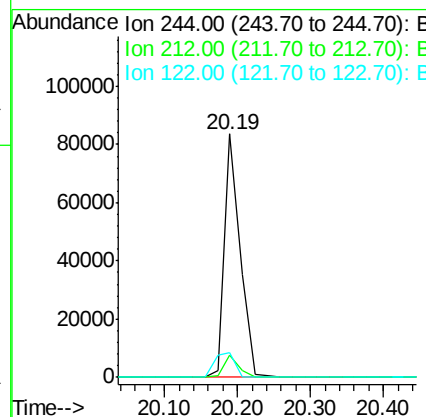
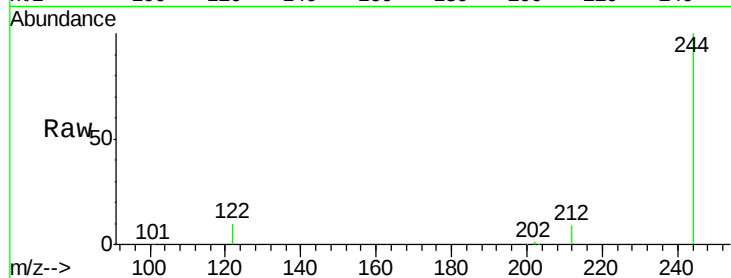
#24
 Terphenyl-d14
 Concen: 9.89 ng
 RT: 20.19 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Instrument :
 BNA_E
 ClientSampled :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.3	9.1	13.7
122	10.1	11.0	16.4

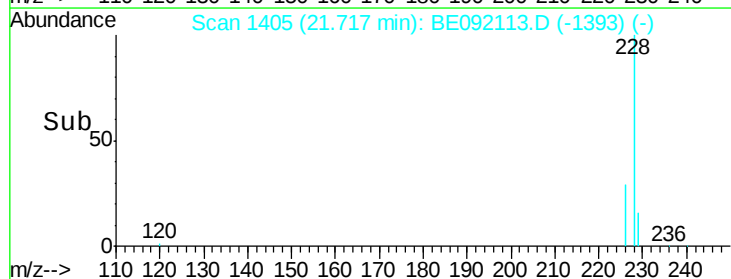
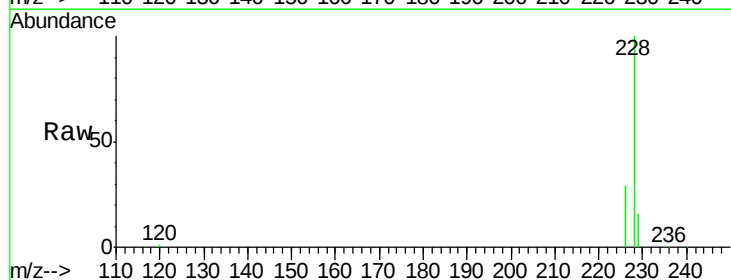
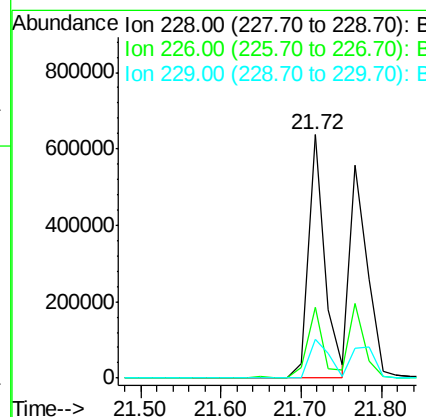
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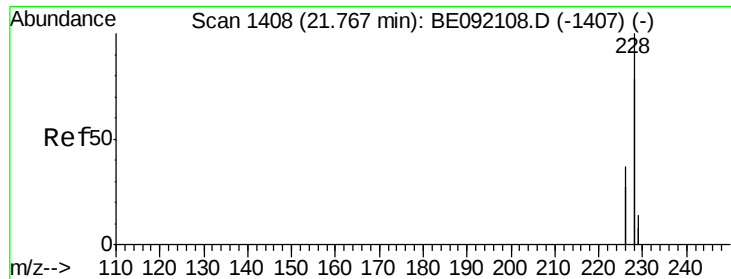
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#25
 Benzo(a)anthracene
 Concen: 39.54 ng
 RT: 21.72 min Scan# 1405
 Delta R.T. 0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.1	33.1
229	15.7	15.1	22.7





#26

Chrysene

Concen: 42.60 ng

RT: 21.77 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Instrument :

BNA_E

ClientSampled :

SSTDICC010

Tot Ion:228 Resp: 854560

Ion Ratio Lower Upper

228 100

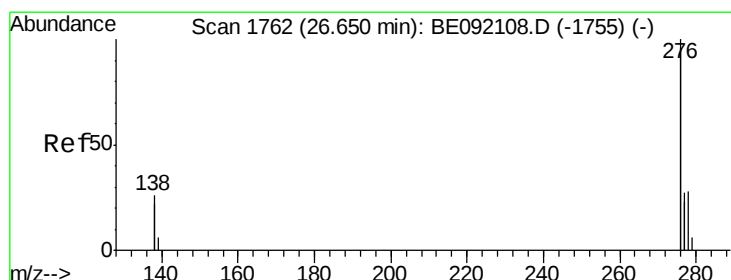
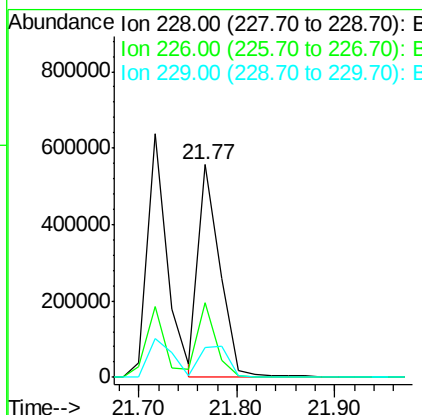
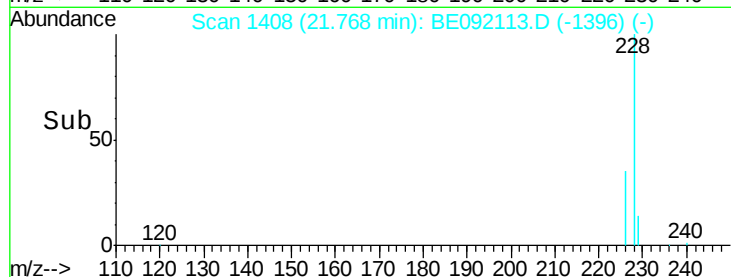
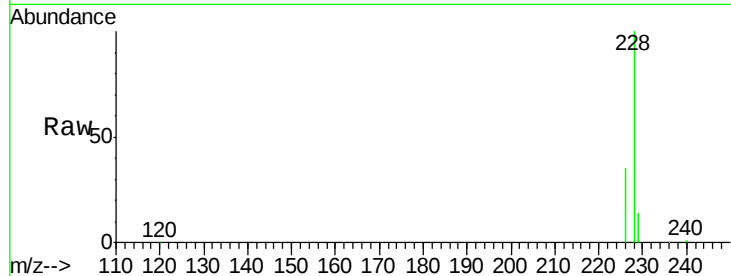
226 35.3 22.3 33.5#

229 14.1 16.9 25.3#

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#27

Indeno(1,2,3-cd)pyrene

Concen: 11.04 ng

RT: 26.65 min Scan# 1761

Delta R.T. -0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

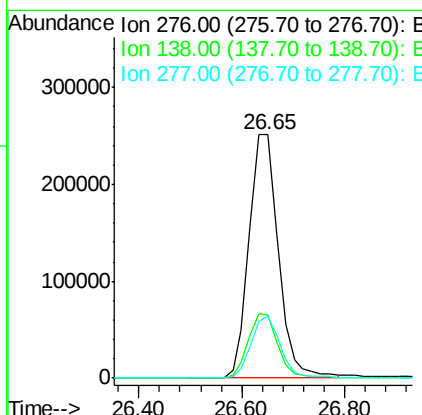
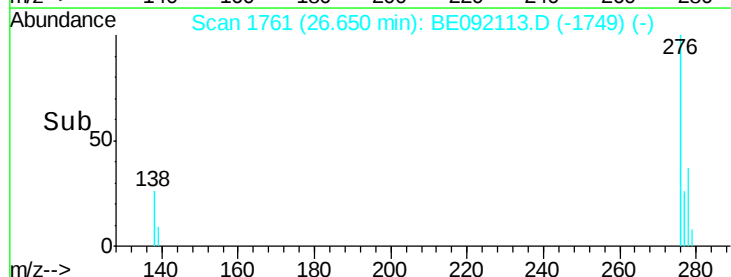
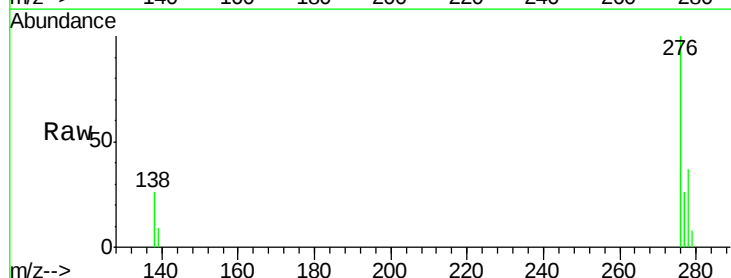
Tgt Ion:276 Resp: 987080

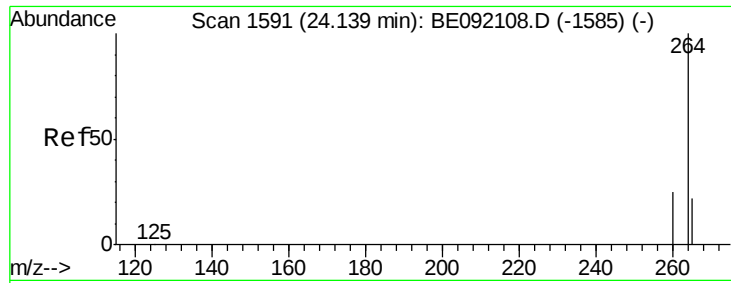
Ion Ratio Lower Upper

276 100

138 26.9 21.2 31.8

277 24.8 19.8 29.8





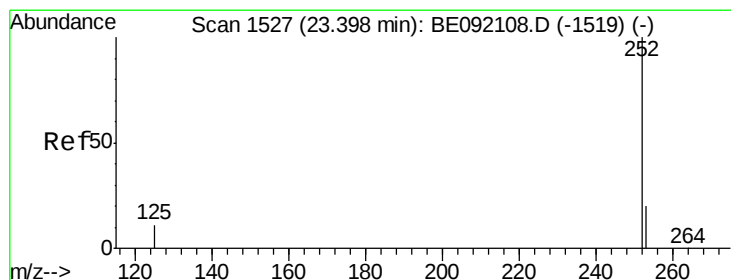
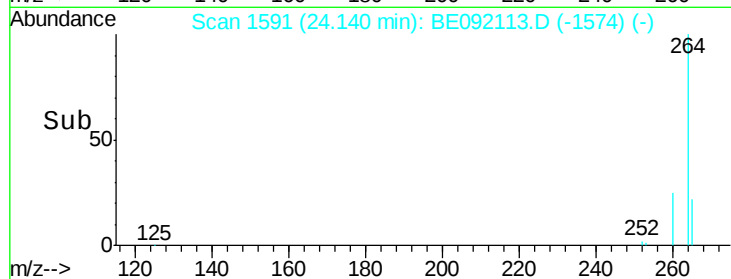
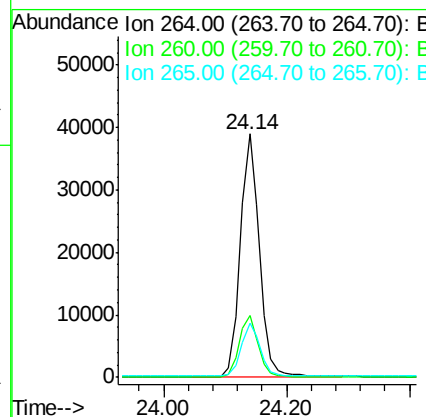
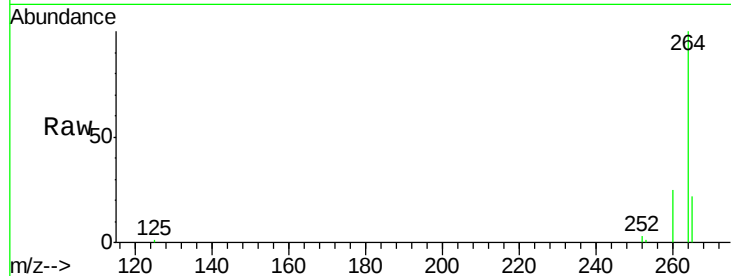
#28
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Instrument :
 BNA_E
 ClientSampled :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.8	31.2
265	22.0	16.6	25.0

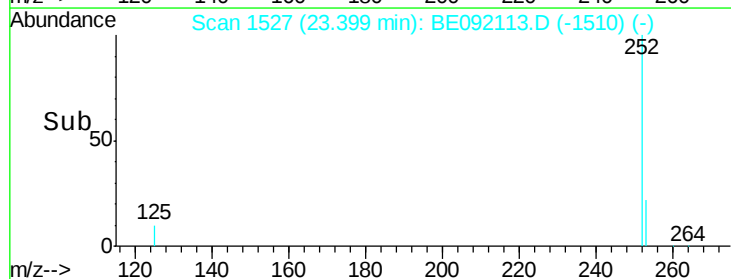
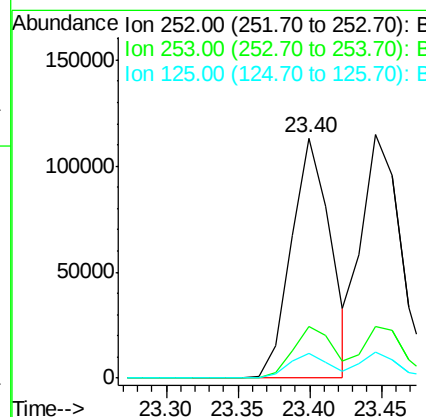
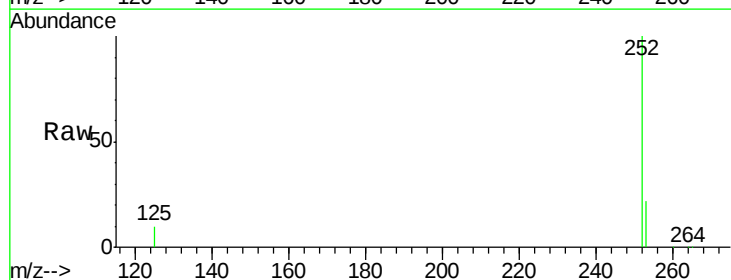
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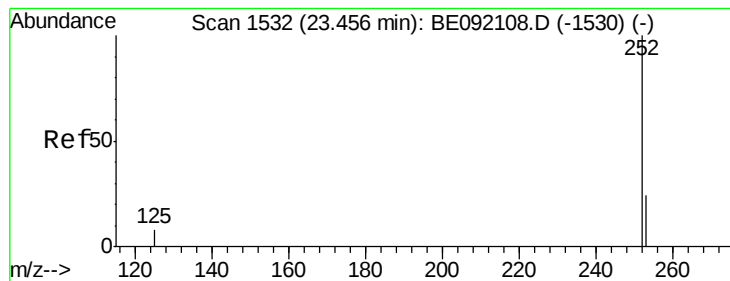
Sohil
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#29
 Benzo(b)fluoranthene
 Concen: 9.13 ng
 RT: 23.40 min Scan# 1527
 Delta R.T. 0.00 min
 Lab File: BE092113.D
 Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.4	10.2	15.2





#30

Benzo(k)fluoranthene

Concen: 9.15 ng

RT: 23.45 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Instrument :

BNA_E

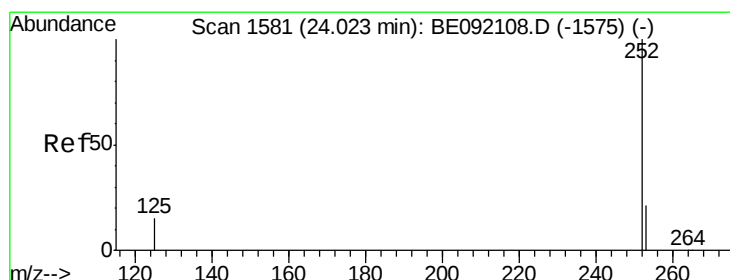
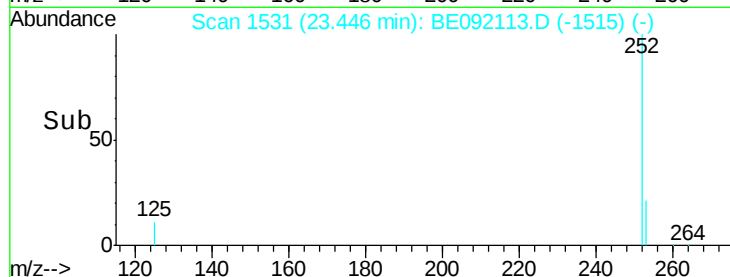
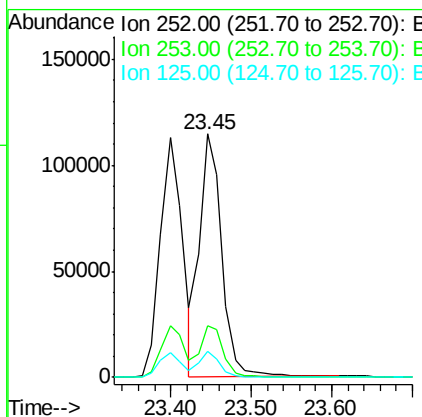
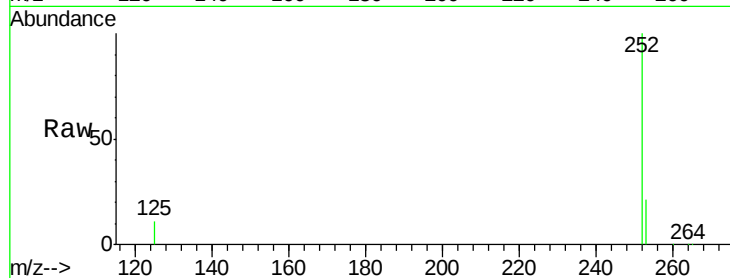
ClientSampleId :

SSTDIC010

Tot Ion:	252	Resp:	220809
Ion Ratio	Lower	Upper	
252	100		
253	21.4	19.4	29.0
125	10.8	8.9	13.3

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#31

Benzo(a)pyrene

Concen: 9.68 ng

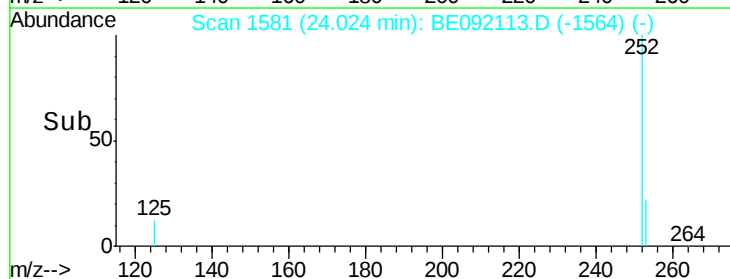
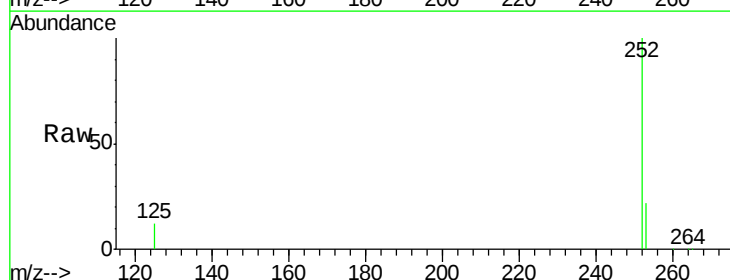
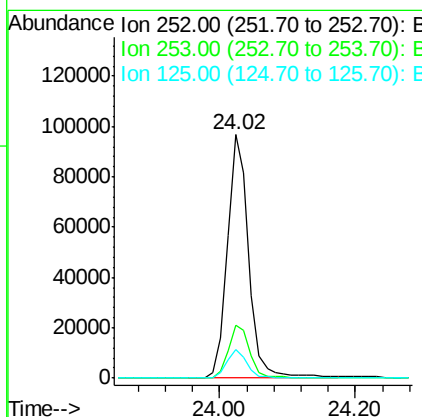
RT: 24.02 min Scan# 1581

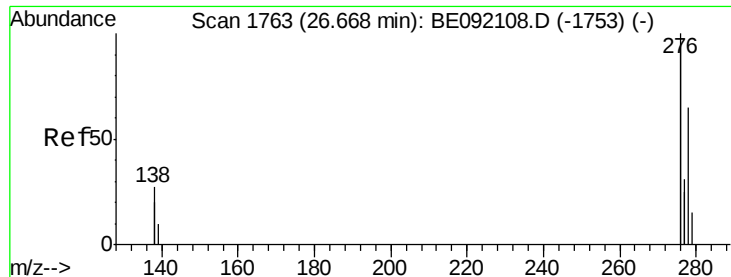
Delta R.T. 0.00 min

Lab File: BE092113.D

Acq: 2 Aug 2016 15:59

Tgt Ion:	252	Resp:	212160
Ion Ratio	Lower	Upper	
252	100		
253	21.6	19.8	29.8
125	11.7	10.4	15.6





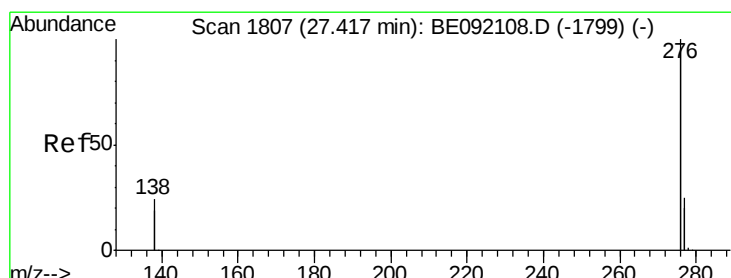
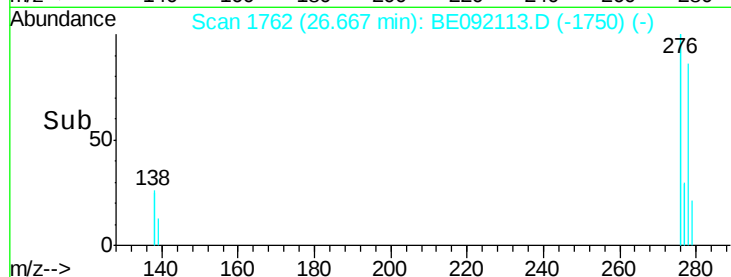
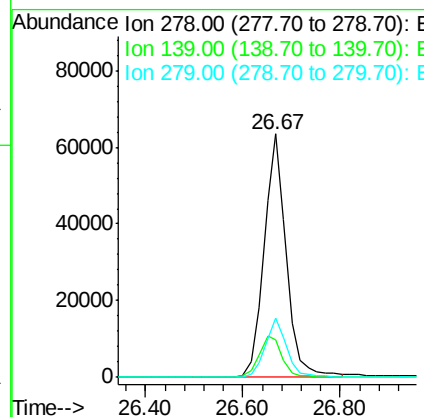
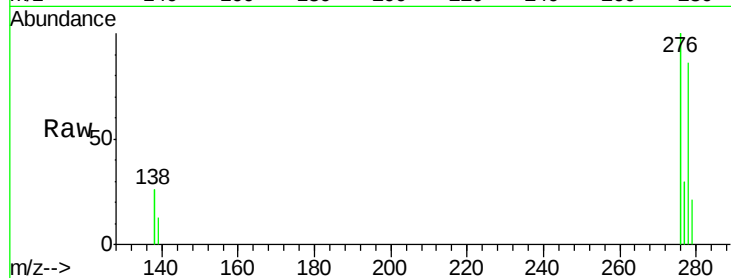
#32
Dibenzo(a,h)anthracene
Concen: 9.96 ng
RT: 26.67 min Scan# 1762
Delta R.T. -0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.4	16.7	25.1#
279	24.1	20.3	30.5

Manual Integrations
APPROVED

Sohil
8/3/2016 8:39:09 AM



#33
Benzo(g,h,i)perylene
Concen: 9.83 ng
RT: 27.42 min Scan# 1806
Delta R.T. -0.00 min
Lab File: BE092113.D
Acq: 2 Aug 2016 15:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.5	29.3
138	22.3	20.8	31.2

