

Data Path : Z:\HPCHEM1\BNA E\DATA\BE061416\
 Data File : BE091909.D
 Acq On : 14 Jun 2016 12:36
 Operator : UM/SJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Manual Integrations
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Quant Time: Jun 15 12:19:12 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE061416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 14 17:07:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	25052	5.00	ng	0.00
8) Naphthalene-d8	10.99	136	117382	5.00	ng	-0.03
15) Acenaphthene-d10	14.86	164	90553	5.00	ng	0.00
24) Phenanthrene-d10	17.61	188	181982	5.00	ng	0.00
31) Chrysene-d12	21.76	240	274854	5.00	ng	0.00
40) Perylene-d12	24.17	264	215398	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0d	0.00	ng	
5) Phenol-d6	0.00	99	0d	0.00	ng	
9) Nitrobenzene-d5	9.37	82	96676	12.25	ng	-0.02
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
17) 2-Fluorobiphenyl	13.48	172	224166	8.16	ng	0.00
34) Terphenyl-d14	20.22	244	379324	7.75	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.47	88	32549	8.32	ng	91
6) bis(2-Chloroethyl)ether	7.61	93	80847	11.28	ng	97
11) bis(2-Chloroethoxy)methane	10.42	93	109393	9.18	ng	# 19
12) Naphthalene	11.04	128	257613	10.17	ng	# 93
13) Hexachlorobutadiene	11.34	225	41446	10.99	ng	98
14) 2-Methylnaphthalene	12.68	142	185999	11.39	ng	97
18) Acenaphthylene	14.56	152	996090	24.31	ng	# 61
19) 2,6-Dinitrotoluene	14.44	165	210580	48.46	ng	# 41
22) Fluorene	15.90	166	260665	8.51	ng	100
23) 4-Chlorophenyl-phenylether	15.90	204	121845	8.11	ng	96
25) 4-Bromophenyl-phenylether	16.78	248	76132	11.64	ng	96
26) Hexachlorobenzene	16.92	284	74071	11.07	ng	98
28) Phenanthrene	17.64	178	453809	10.77	ng	99
29) Anthracene	17.73	178	451510	12.02	ng	99
30) Fluoranthene	19.65	202	2167355	47.62	ng	# 87
33) Pyrene	20.02	202	2191582	31.60	ng	# 79
35) Benzo(a)anthracene	21.73	228	410515m	1.03	ng	
36) 3,3'-Dichlorobenzidine	21.67	252	89783	4.68	ng	# 53
37) Chrysene	21.78	228	560660m	2.00	ng	
39) Indeno(1,2,3-cd)pyrene	26.68	276	2512349	30.00	ng	98
41) Benzo(b)fluoranthene	23.43	252	591355	11.23	ng	97
42) Benzo(k)fluoranthene	23.48	252	540622	9.90	ng	97
43) Benzo(a)pyrene	24.06	252	554233	11.23	ng	95
44) Dibenzo(a,h)anthracene	26.72	278	532719	11.57	ng	98
45) Benzo(g,h,i)perylene	27.47	276	2167013	44.92	ng	98

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

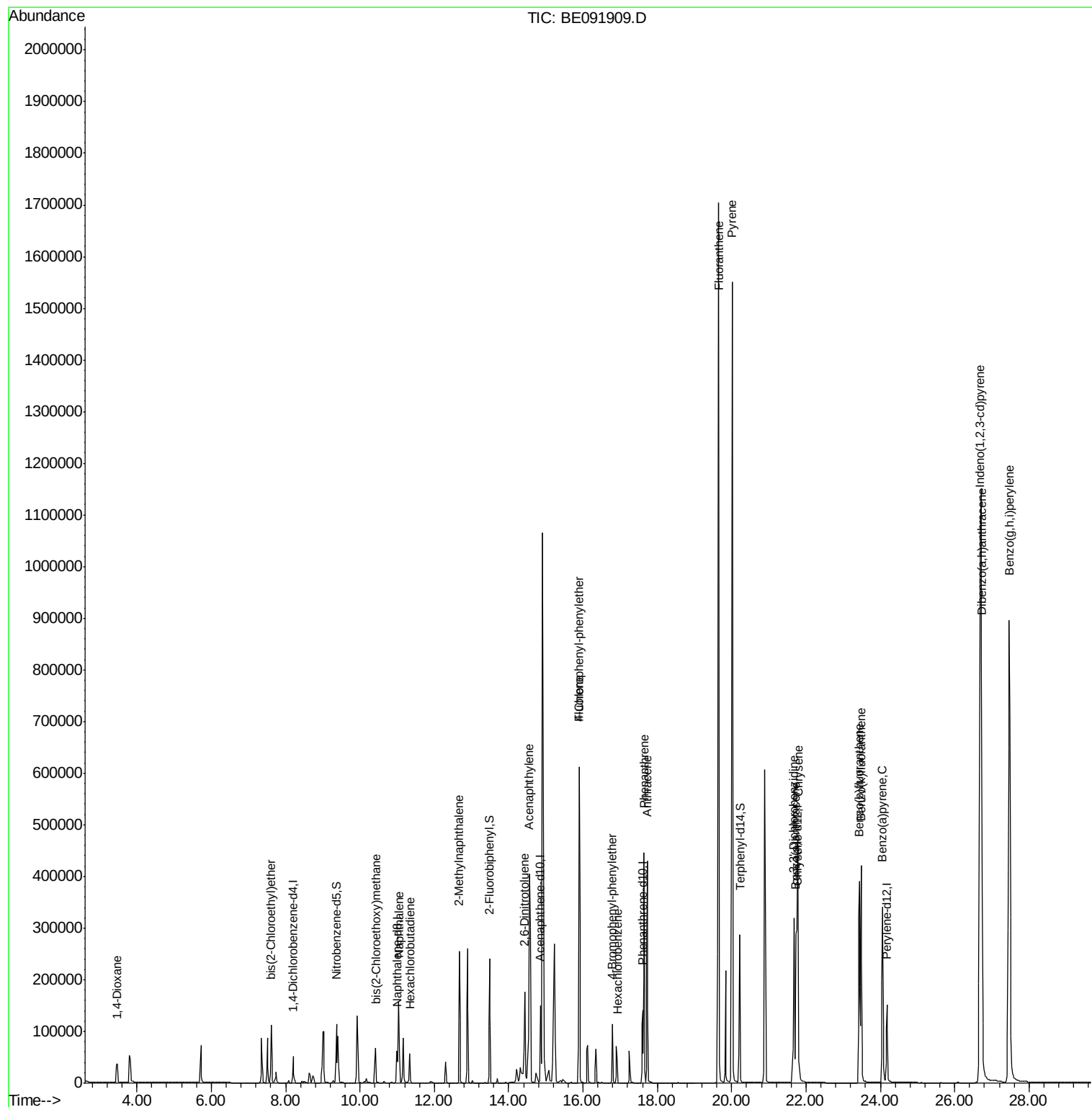
Data Path : Z:\HPCHEM1\BNA E\DATA\BE061416\
Data File : BE091909.D
Acq On : 14 Jun 2016 12:36
Operator : UM/SJ
Sample : SSTDICC010
Misc :
ALS Vial : 9 Sample Multiplier: 1

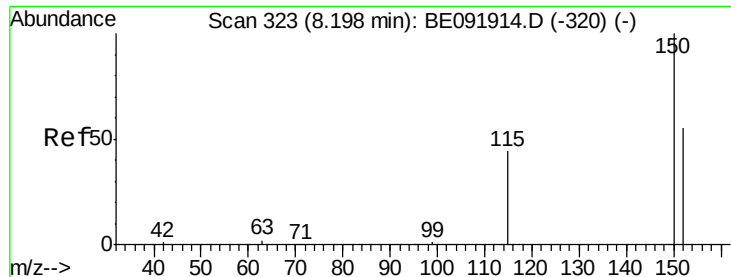
Instrument :
BNA_E
ClientSampleId :
SSTDICC010

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Quant Time: Jun 15 12:19:12 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE061416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 14 17:07:26 2016
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#1

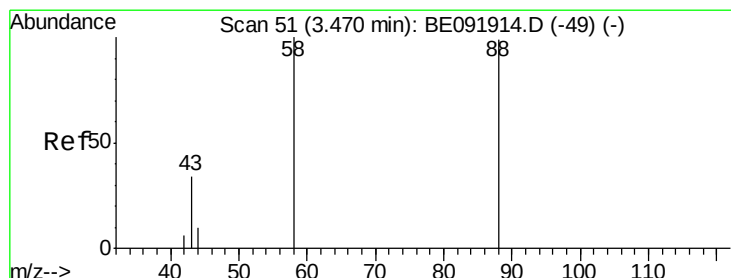
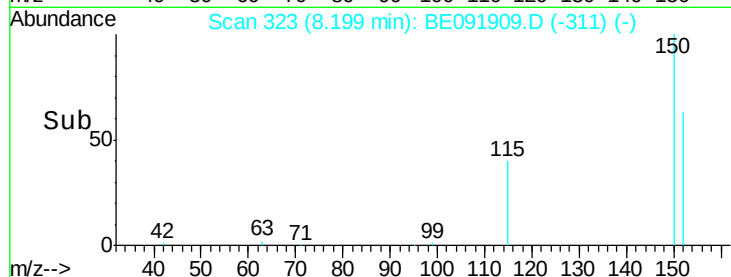
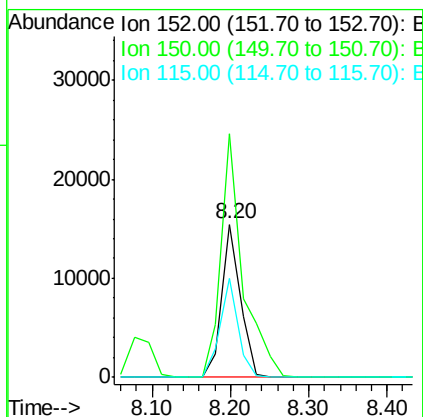
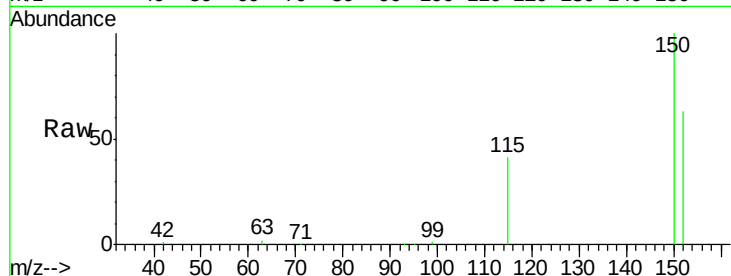
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.20 min Scan# 323
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	123.9	185.9
115	64.8	48.3	72.5

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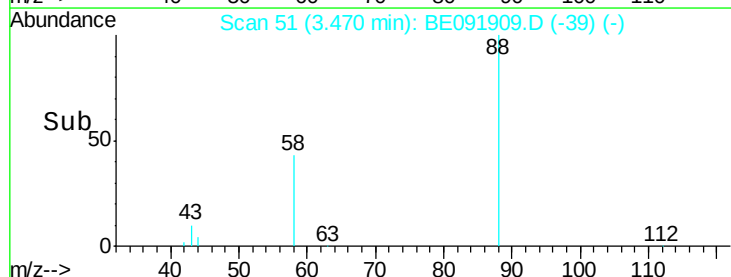
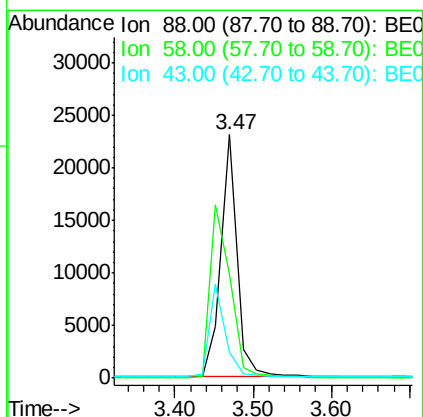
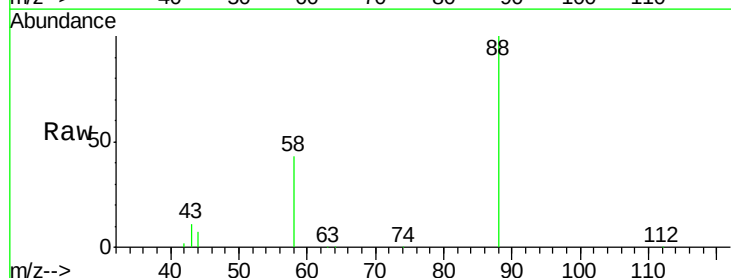
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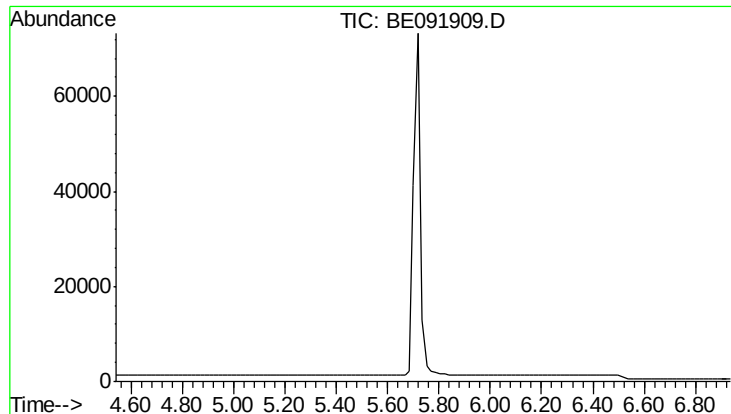


#2

1,4-Dioxane
Concen: 8.32 ng
RT: 3.47 min Scan# 51
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	89.4	63.0	94.4
43	37.9	29.1	43.7





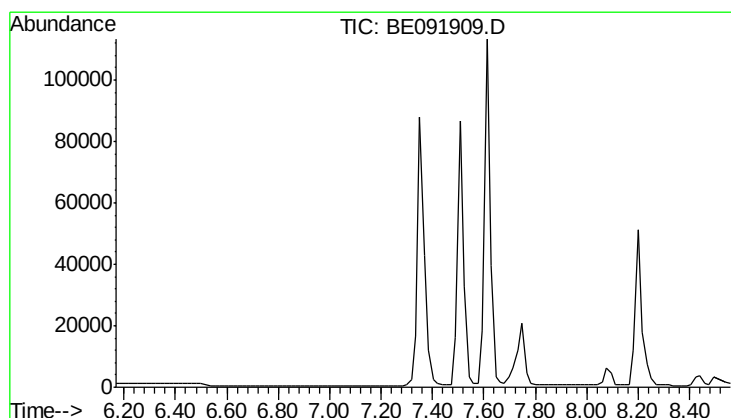
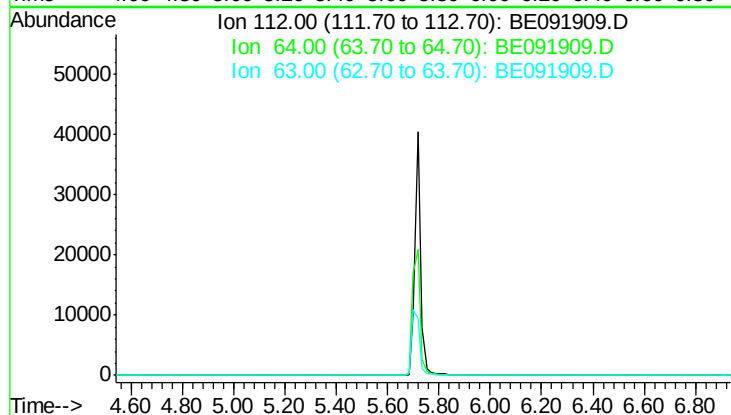
#4
 2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.74 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion	112
Sig	Exp Ratio
112	100
64	67.1
63	36.9

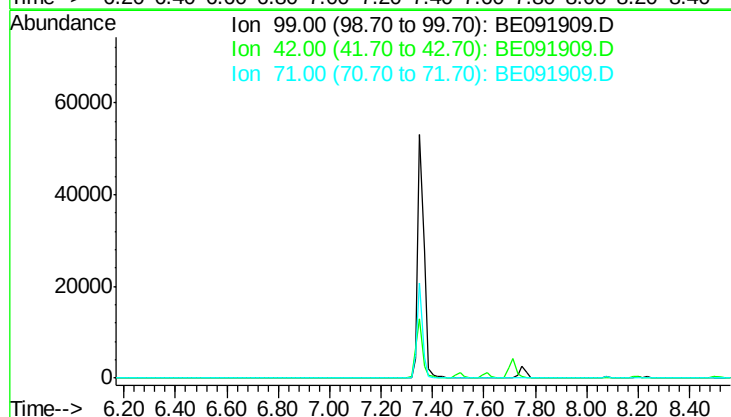
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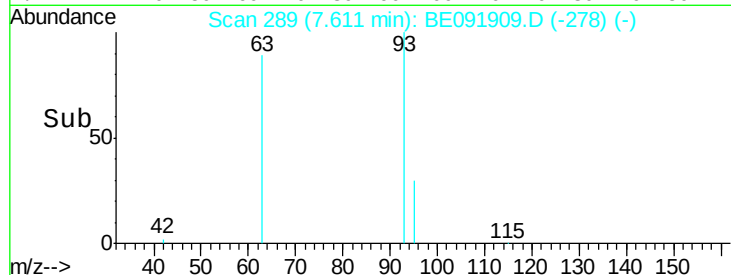
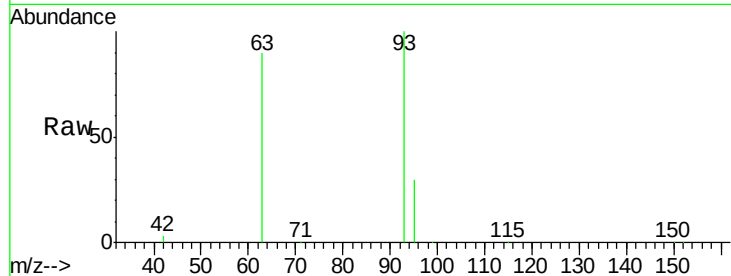
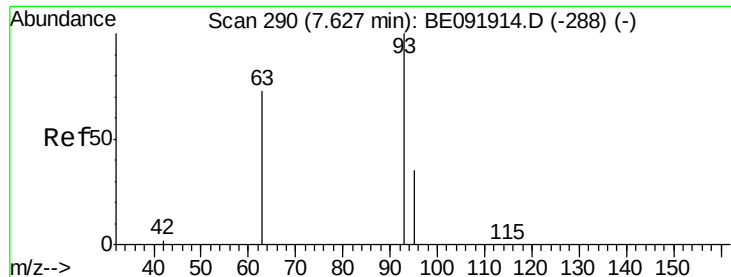
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#5
 Phenol-d6
 Concen: 0.00 ng
 Expected RT: 7.37 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Tgt Ion	99
Sig	Exp Ratio
99	100
42	24.5
71	35.1





#6

bis(2-Chloroethyl)ether

Concen: 11.28 ng

RT: 7.61 min Scan# 289

Delta R.T. -0.02 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tot Ion:	93	Resp:	80847
Ion	Ratio	Lower	Upper
93	100		
63	86.3	66.2	99.4
95	32.7	25.5	38.3

Instrument :

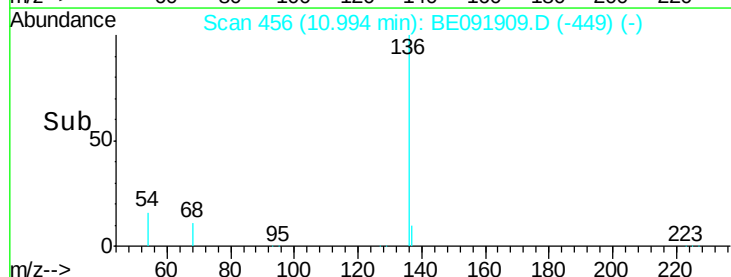
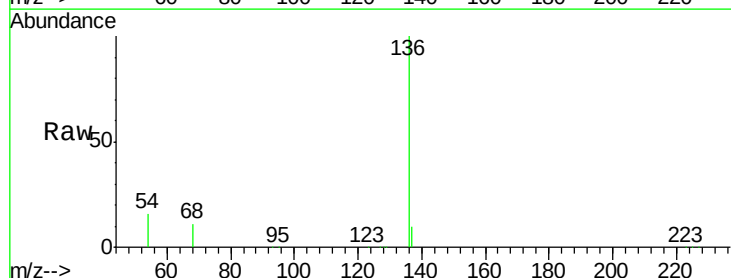
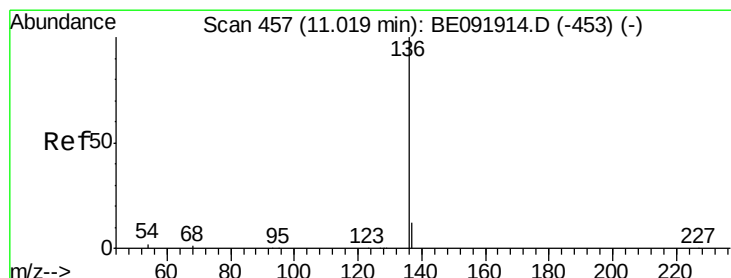
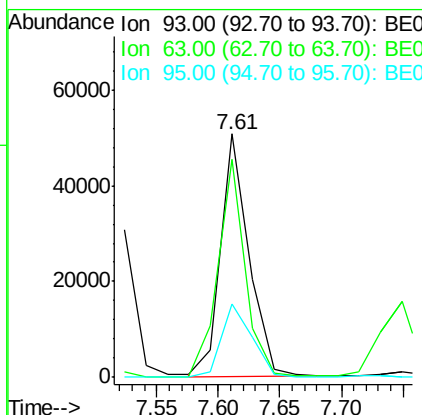
BNA_E

ClientSampleId :

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#8

Naphthalene-d8

Concen: 5.00 ng

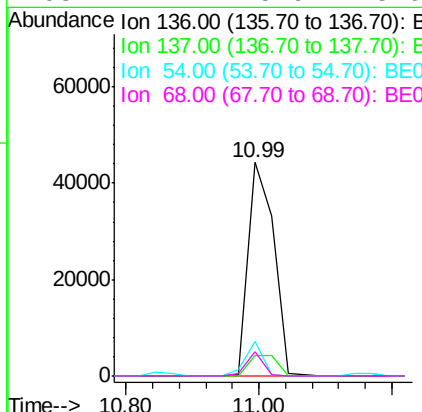
RT: 10.99 min Scan# 456

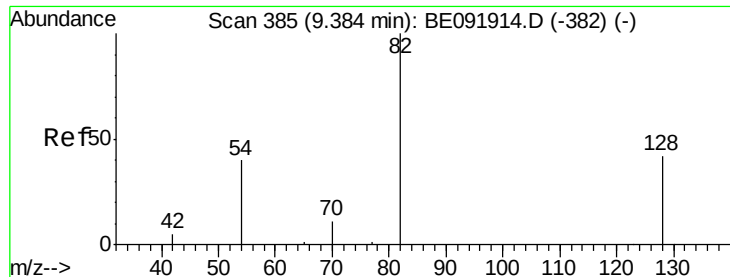
Delta R.T. -0.03 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tgt Ion:	136	Resp:	117382
Ion	Ratio	Lower	Upper
136	100		
137	9.8	8.3	12.5
54	15.9	8.2	12.4#
68	11.2	5.9	8.9#





#9

Nitrobenzene-d5

Concen: 12.25 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.02 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Instrument :

BNA_E

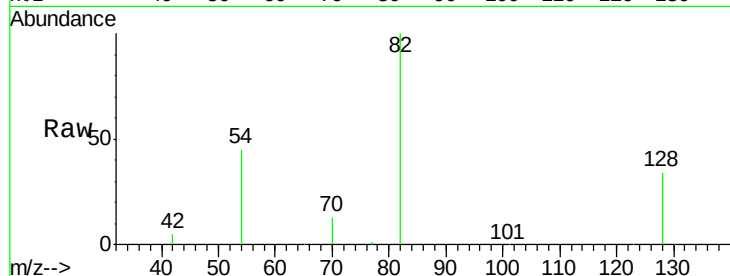
ClientSampleId :

SSTDIC010

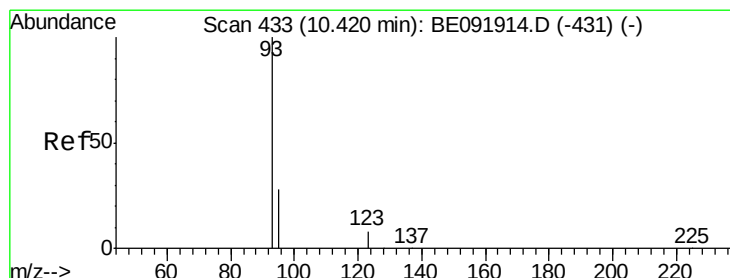
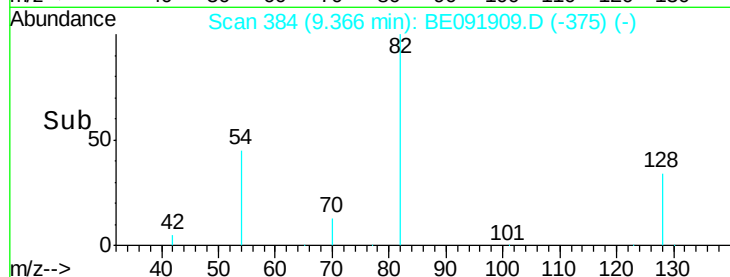
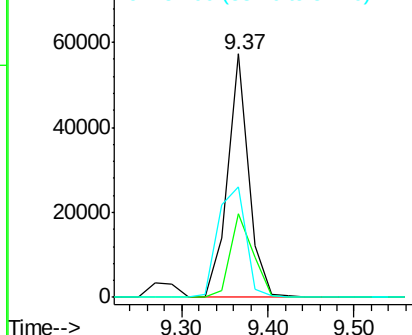
Tot Ion:	82	Resp:	96676
Ion Ratio	Lower	Upper	
82	100		
128	34.1	39.5	59.3#
54	45.3	30.3	45.5

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Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#11

bis(2-Chloroethoxy)methane

Concen: 9.18 ng

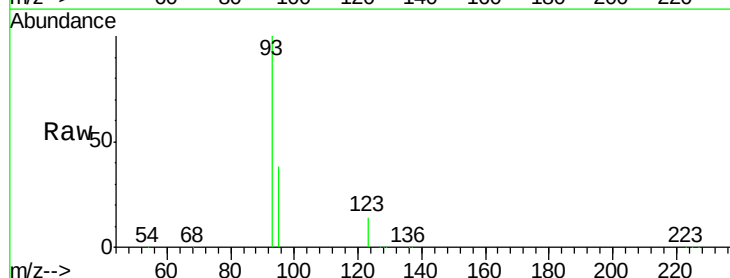
RT: 10.42 min Scan# 433

Delta R.T. -0.00 min

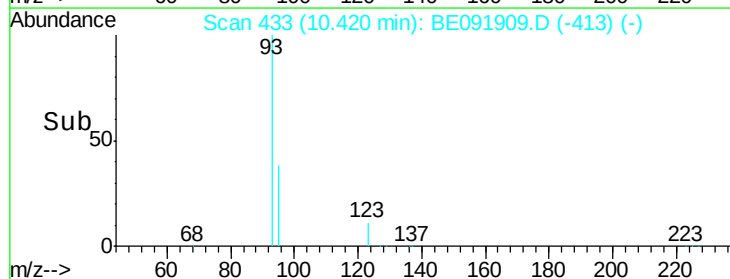
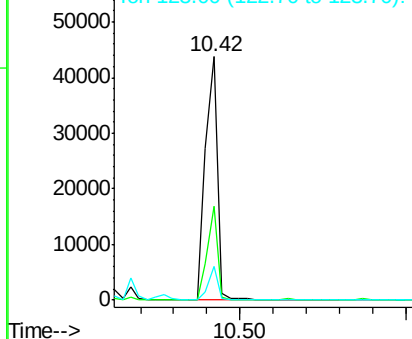
Lab File: BE091909.D

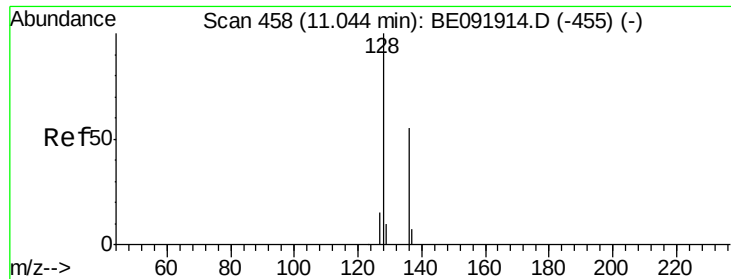
Acq: 14 Jun 2016 12:36

Tgt Ion:	93	Resp:	109393
Ion Ratio	Lower	Upper	
93	100		
95	32.9	57.6	86.4#
123	10.8	100.2	150.4#



Abundance Ion 93.00 (92.70 to 93.70): BE0
Ion 95.00 (94.70 to 95.70): BE0
Ion 123.00 (122.70 to 123.70): BE0





#12

Naphthalene

Concen: 10.17 ng

RT: 11.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Instrument :

BNA_E

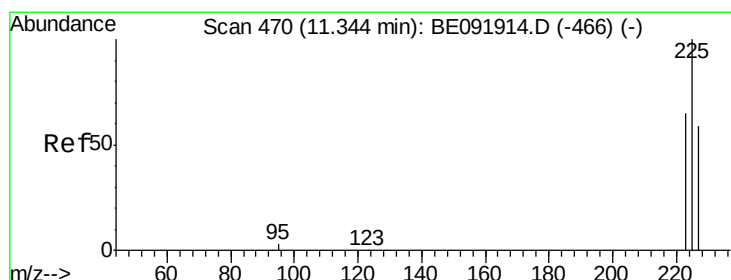
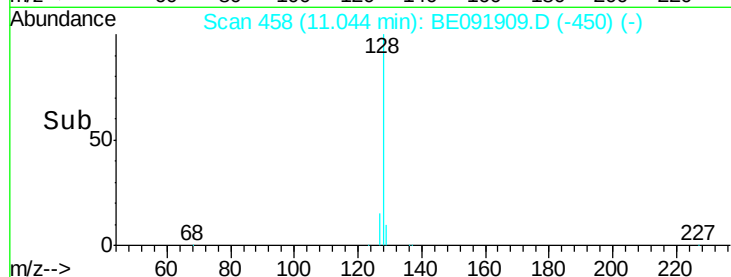
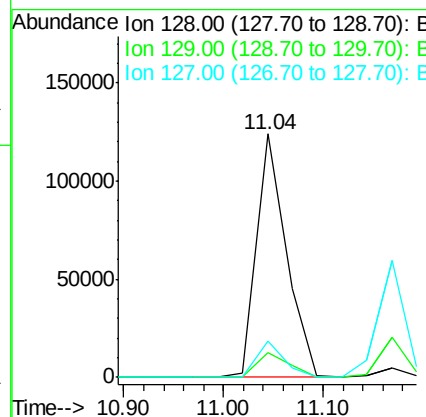
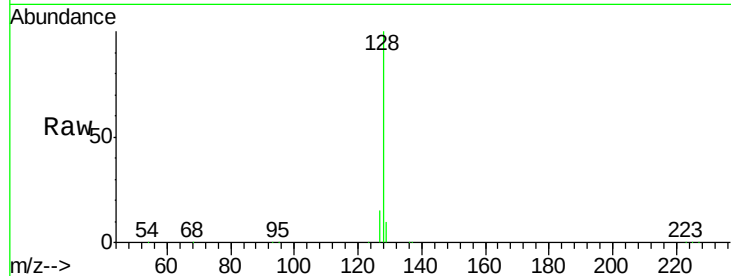
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
128	100		
129	10.1	10.4	15.6#
127	14.9	10.2	15.2

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#13

Hexachlorobutadiene

Concen: 10.99 ng

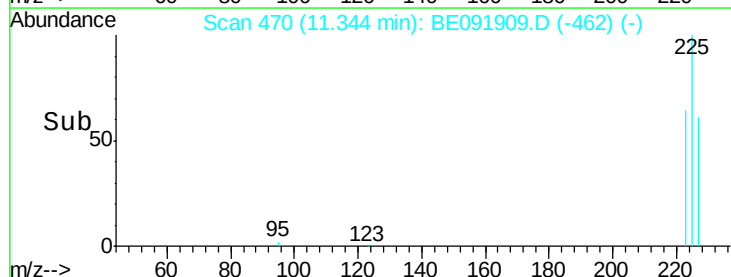
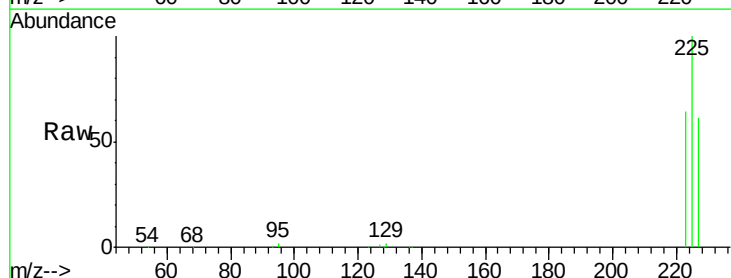
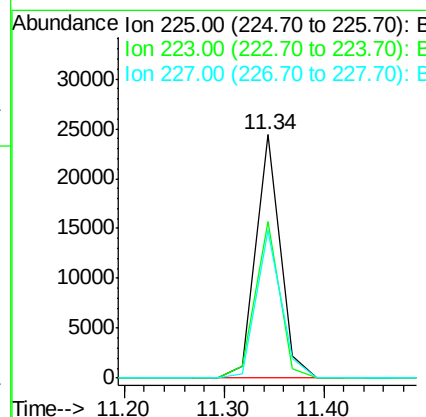
RT: 11.34 min Scan# 470

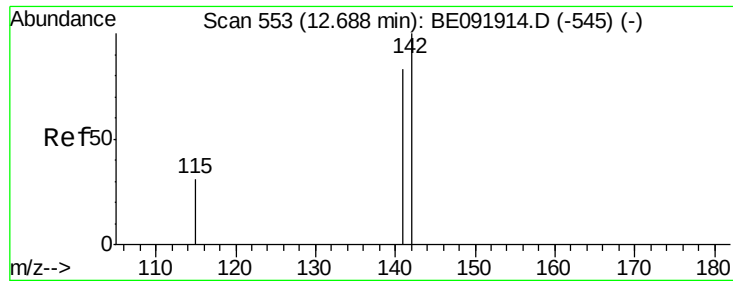
Delta R.T. -0.00 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	49.8	74.8
227	62.3	50.6	75.8





#14

2-Methylnaphthalene

Concen: 11.39 ng

RT: 12.68 min Scan# 552

Delta R.T. -0.01 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Instrument :

BNA_E

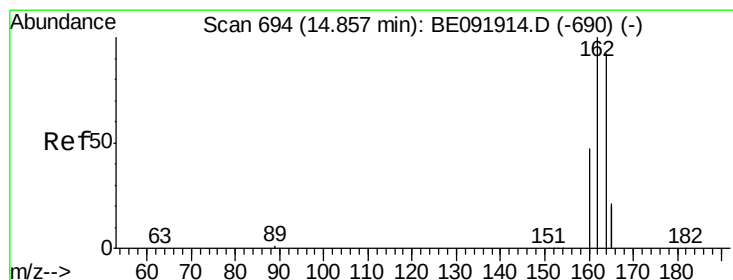
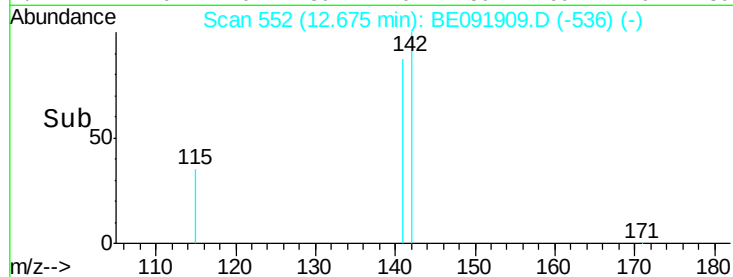
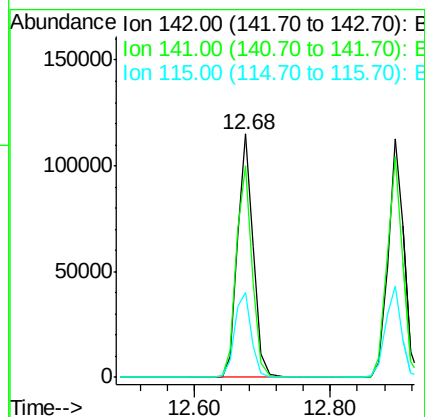
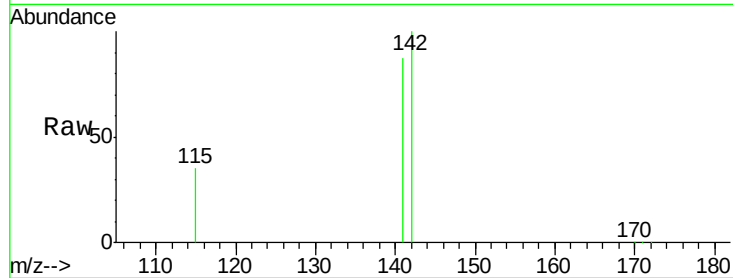
ClientSampleId :

SSTDIC010

Tot Ion:	142	Resp:	185999
Ion Ratio	Lower	Upper	
142	100		
141	87.0	71.9	107.9
115	35.1	29.9	44.9

Manual Integrations
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#15

Acenaphthene-d10

Concen: 5.00 ng

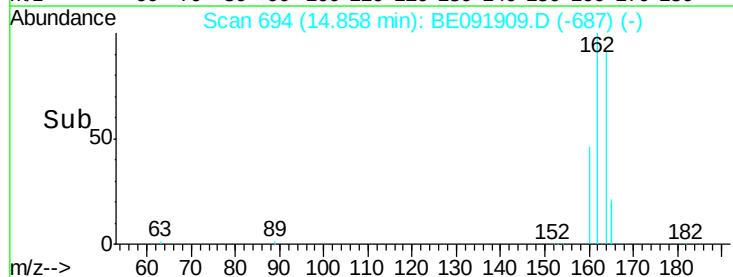
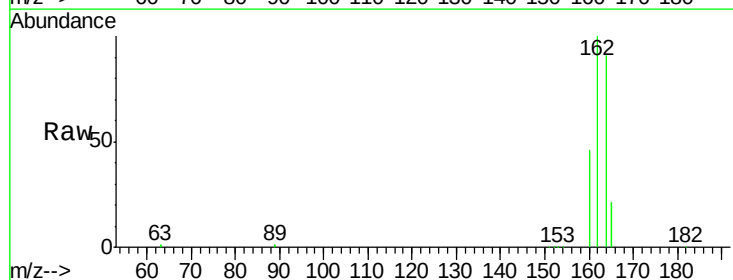
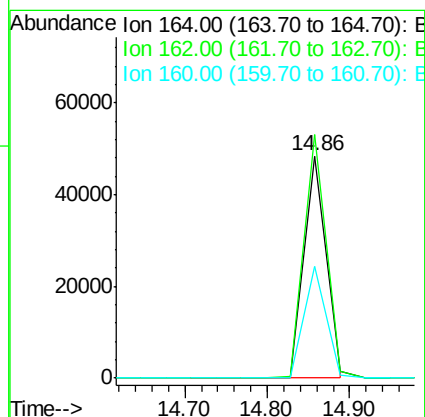
RT: 14.86 min Scan# 694

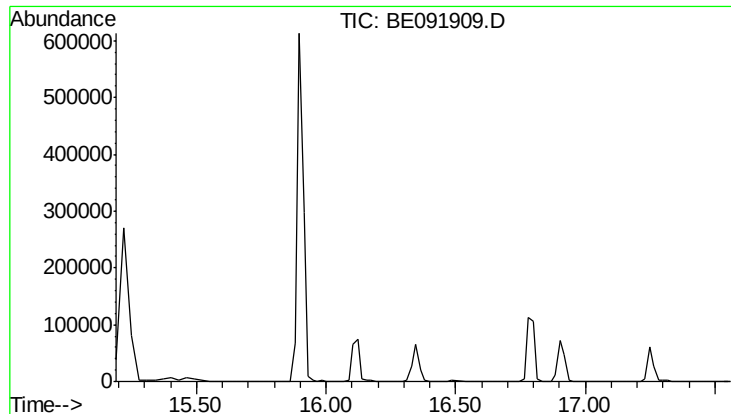
Delta R.T. 0.00 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tgt Ion:	164	Resp:	90553
Ion Ratio	Lower	Upper	
164	100		
162	109.5	71.8	107.8#
160	50.4	28.0	42.0#





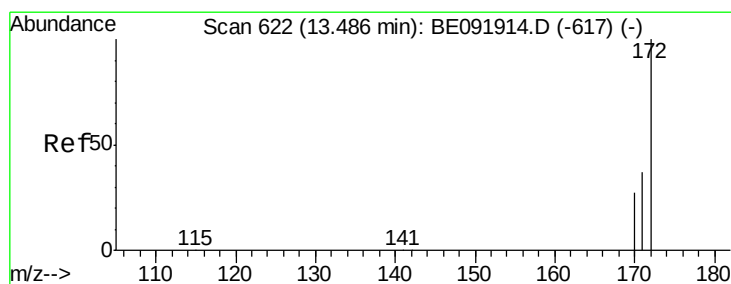
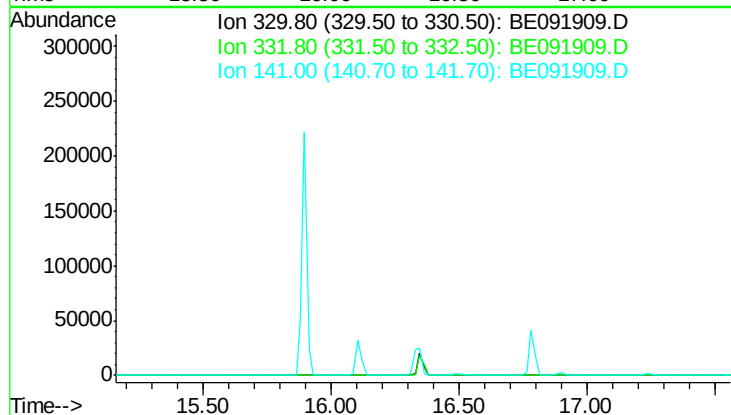
#16
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 16.36 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 96.3
 141 173.0

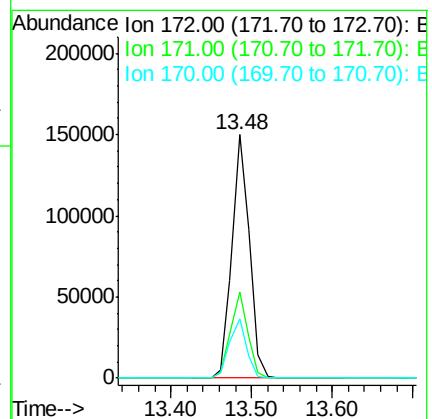
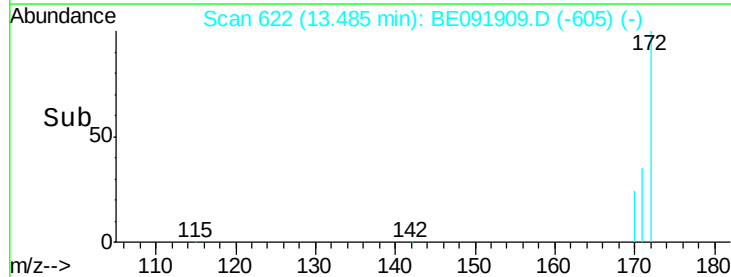
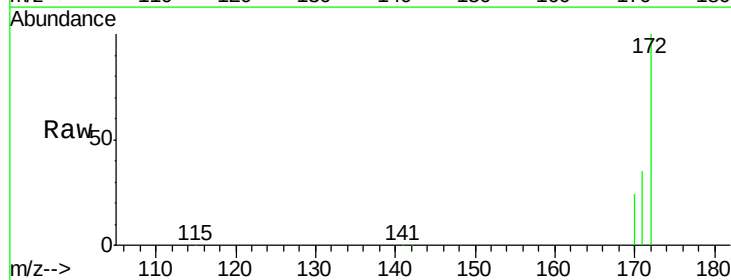
Manual Integrations
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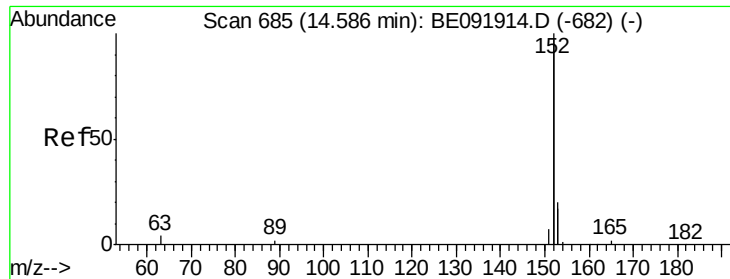
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#17
 2-Fluorobiphenyl
 Concen: 8.16 ng
 RT: 13.48 min Scan# 622
 Delta R.T. -0.00 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Tgt Ion: 172 Resp: 224166
 Ion Ratio Lower Upper
 172 100
 171 35.4 24.3 36.5
 170 24.2 14.9 22.3#





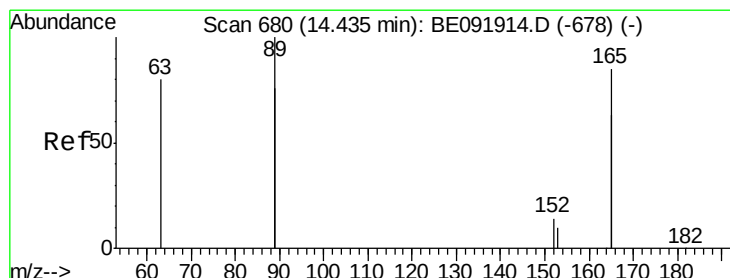
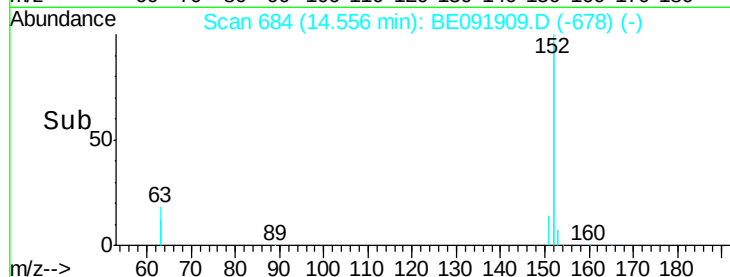
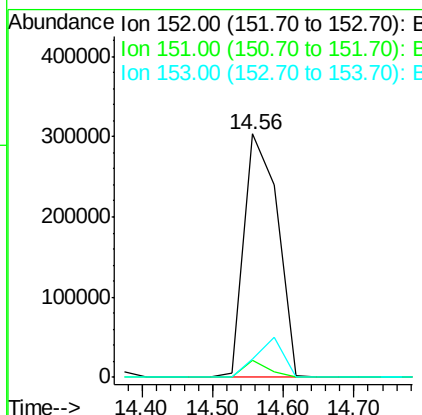
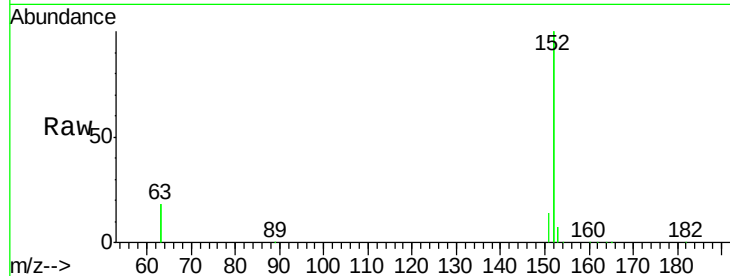
#18
Acenaphthylene
Concen: 24.31 ng
RT: 14.56 min Scan# 684
Delta R.T. -0.03 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tot Ion	Ratio	Resp	Lower	Upper
152	100	996090		
151	5.3	19.4	29.2#	
153	0.0	14.4	21.6#	

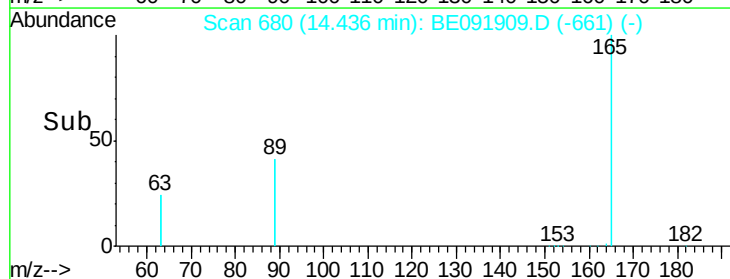
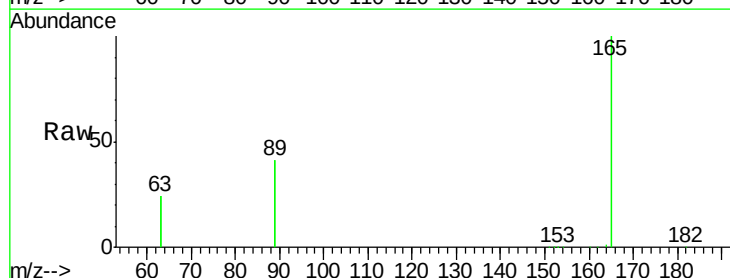
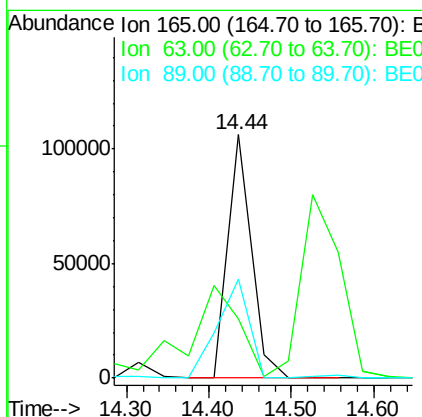
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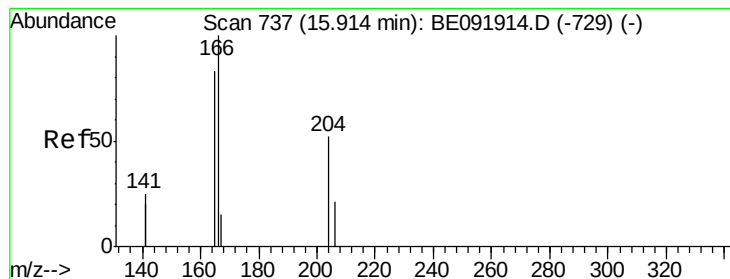
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#19
2,6-Dinitrotoluene
Concen: 48.46 ng
RT: 14.44 min Scan# 680
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	210580		
63	0.0	65.9	98.9#	
89	55.6	59.1	88.7#	





#22

Fluorene

Concen: 8.51 ng

RT: 15.90 min Scan# 736

Delta R.T. -0.02 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Instrument :

BNA_E

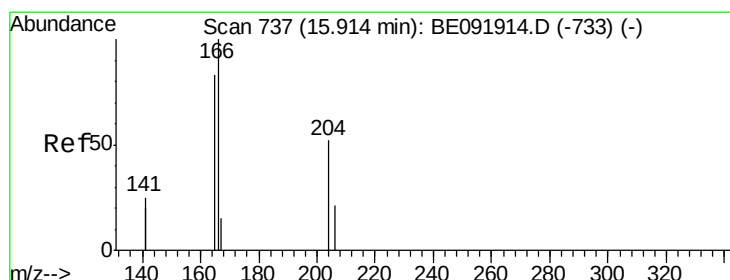
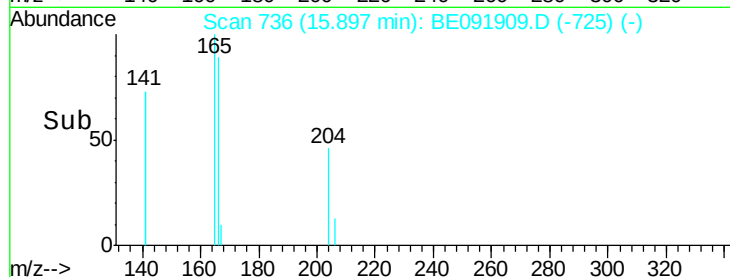
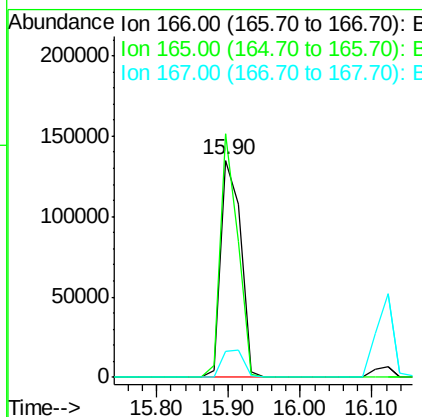
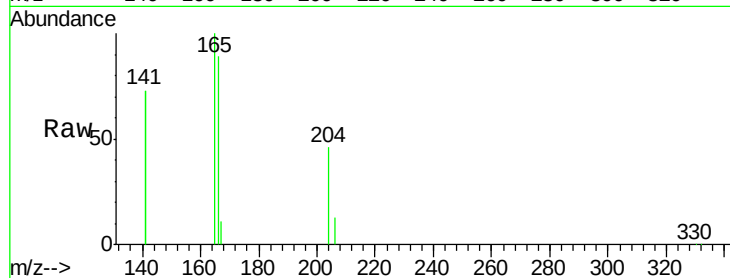
ClientSampleId :

SSTDIC010

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Tot Ion:	166	Resp:	260665
Ion Ratio	Lower	Upper	
166	100		
165	98.4	78.6	117.8
167	13.6	10.8	16.2



#23

4-Chlorophenyl-phenylether

Concen: 8.11 ng

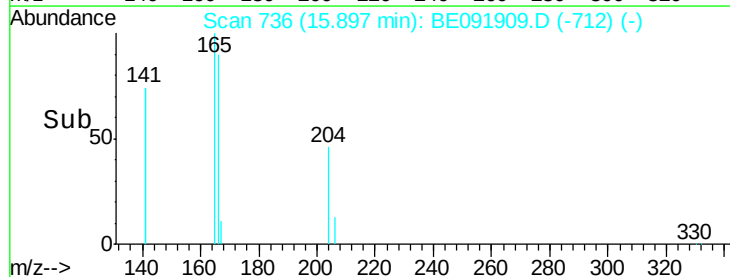
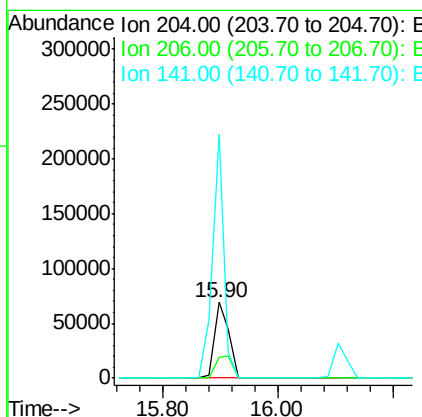
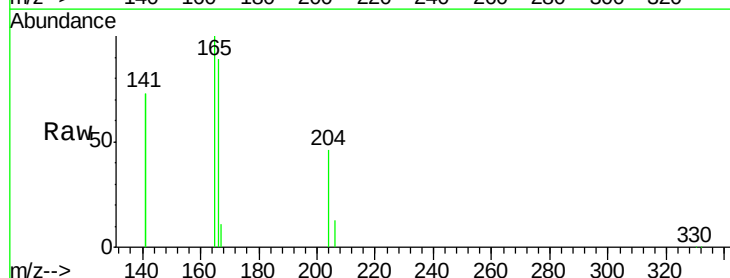
RT: 15.90 min Scan# 736

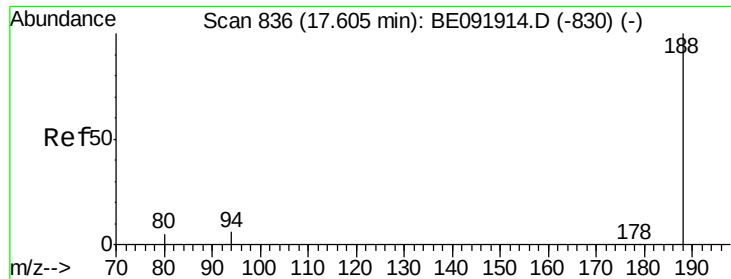
Delta R.T. -0.02 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tgt Ion:	204	Resp:	121845
Ion Ratio	Lower	Upper	
204	100		
206	34.4	27.8	41.6
141	255.5	197.6	296.4





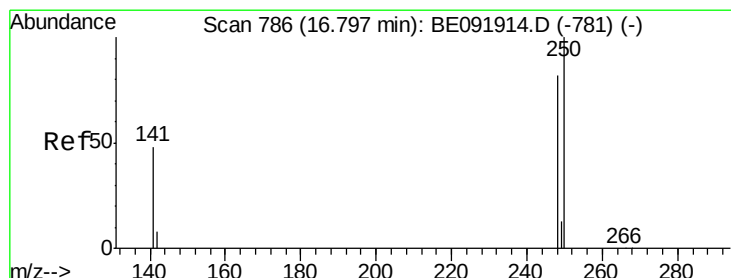
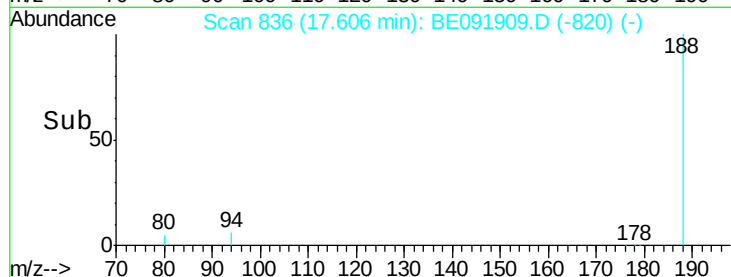
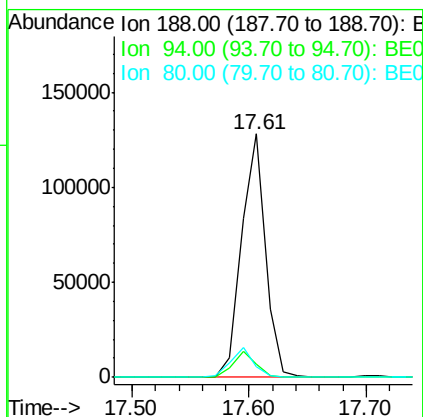
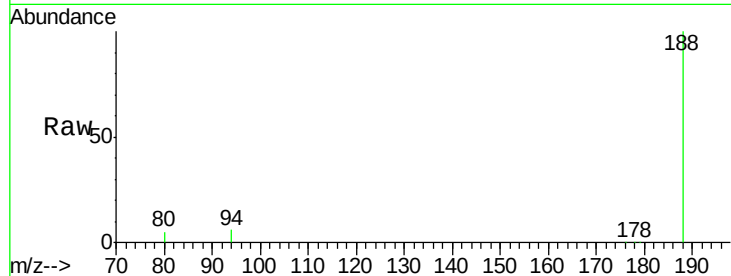
#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.61 min Scan# 836
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	5.5	4.1	6.1
80	4.6	3.4	5.2

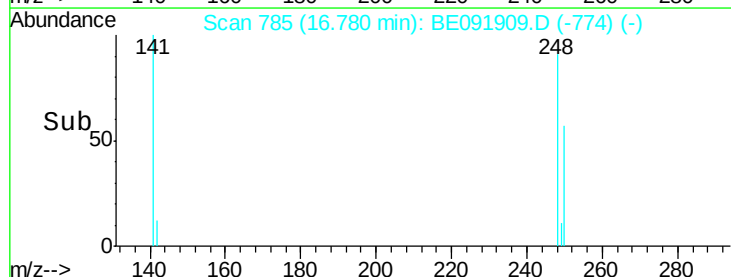
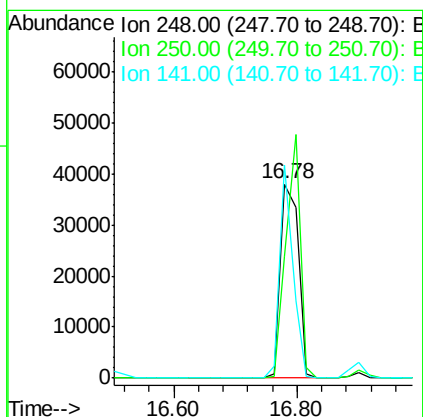
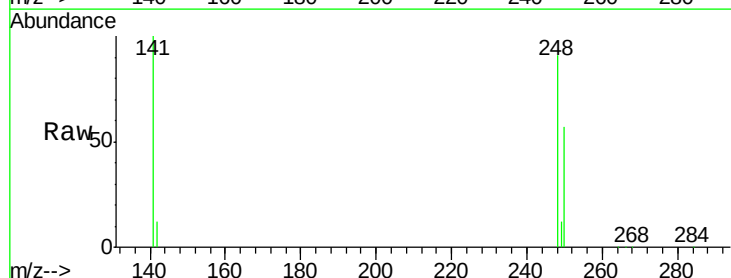
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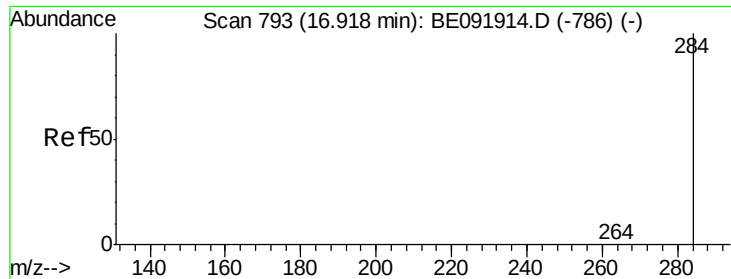
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#25
4-Bromophenyl-phenylether
Concen: 11.64 ng
RT: 16.78 min Scan# 785
Delta R.T. -0.02 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Resp Lower	Upper
248	100		
250	101.0	75.7	113.5
141	81.2	64.6	97.0





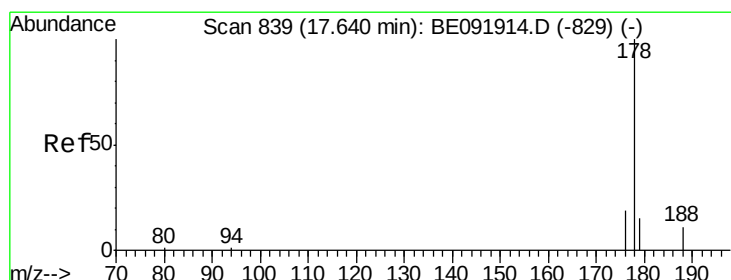
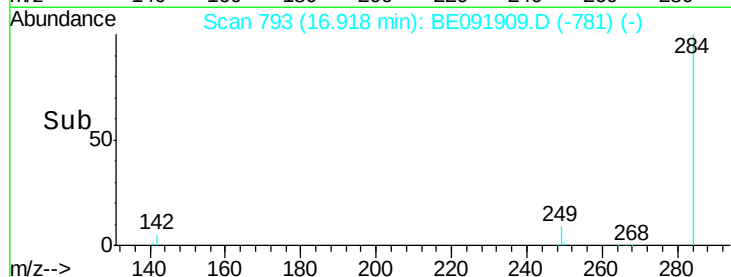
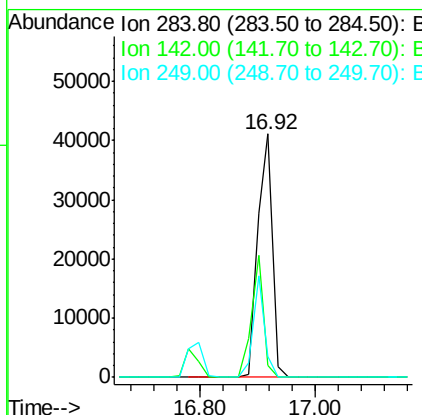
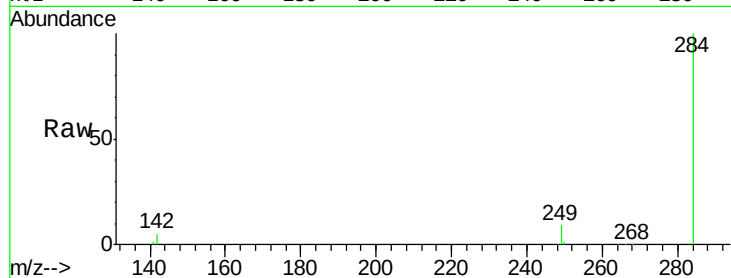
#26
Hexachlorobenzene
Concen: 11.07 ng
RT: 16.92 min Scan# 793
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion	Ratio	Lower	Upper
284	100		
142	40.7	31.4	47.2
249	32.5	25.3	37.9

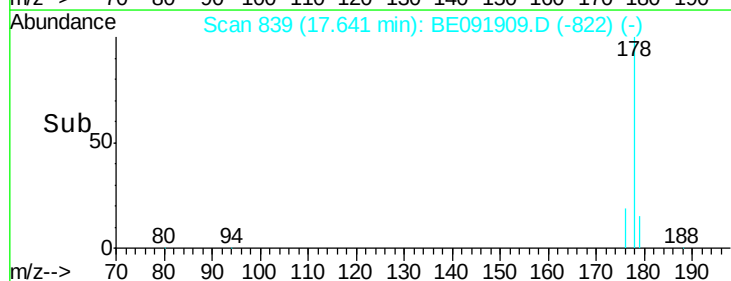
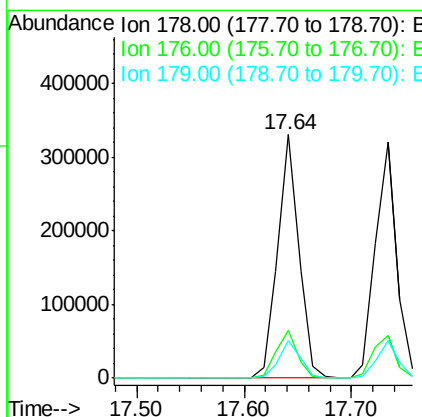
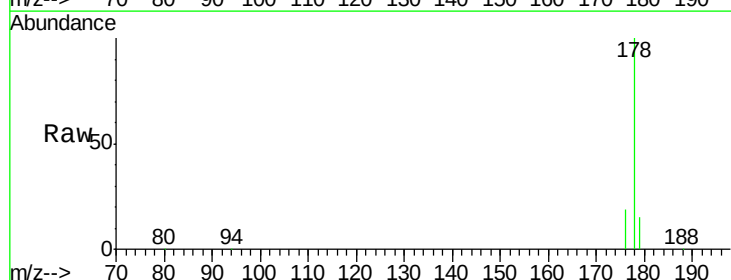
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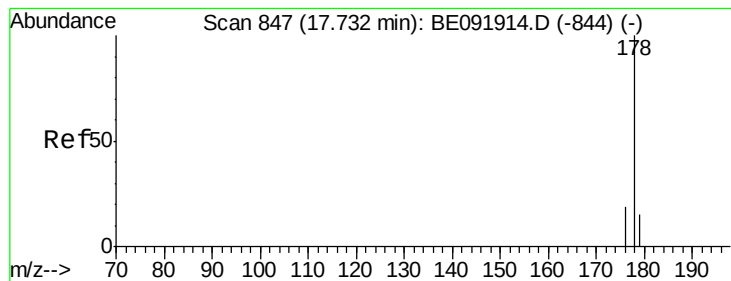
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#28
Phenanthrene
Concen: 10.77 ng
RT: 17.64 min Scan# 839
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.9	19.3





#29

Anthracene

Concen: 12.02 ng

RT: 17.73 min Scan# 847

Delta R.T. 0.00 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Instrument :

BNA_E

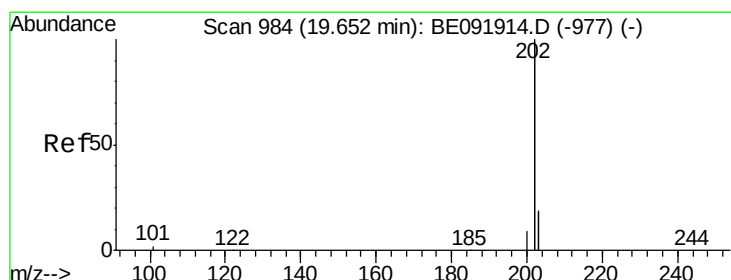
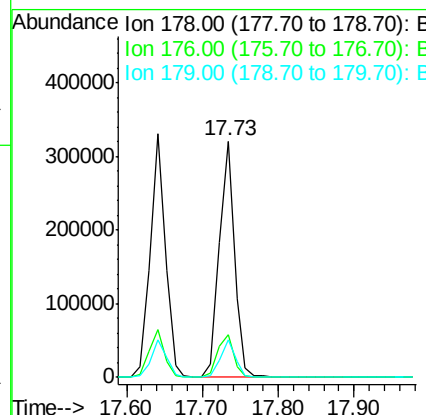
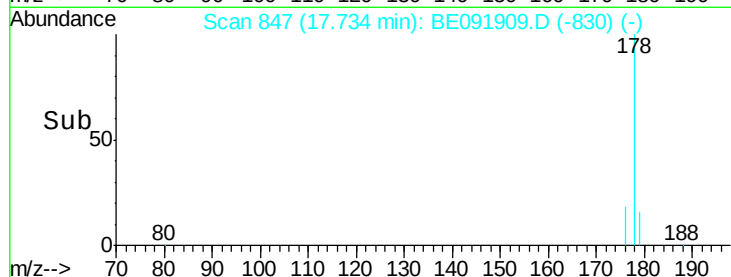
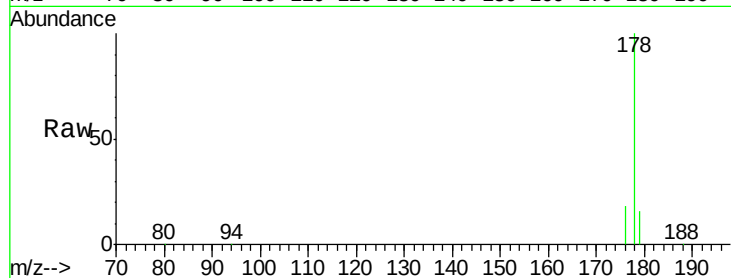
ClientSampleId :

SSTDIC010

Tot Ion:	178	Resp:	451510
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.1	22.7
179	15.3	12.1	18.1

Manual Integrations
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#30

Fluoranthene

Concen: 47.62 ng

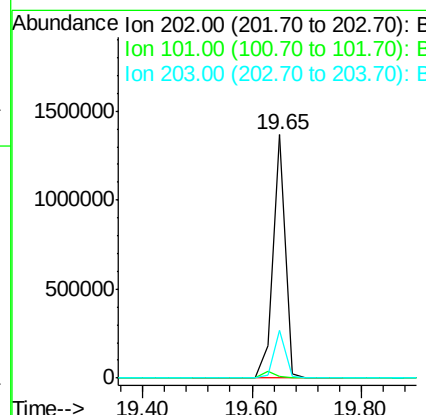
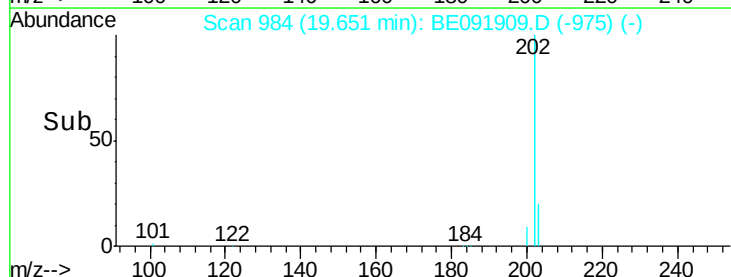
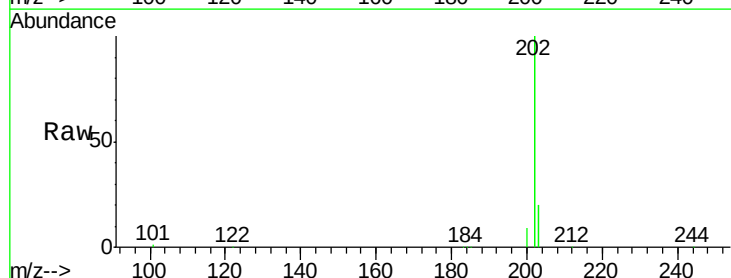
RT: 19.65 min Scan# 984

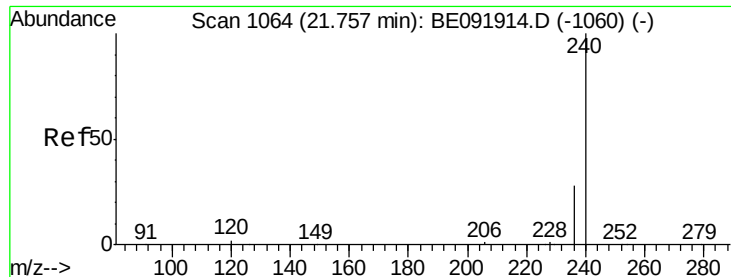
Delta R.T. -0.00 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tgt Ion:	202	Resp:	2167355
Ion Ratio	Lower	Upper	
202	100		
101	0.0	9.4	14.0#
203	18.6	14.3	21.5





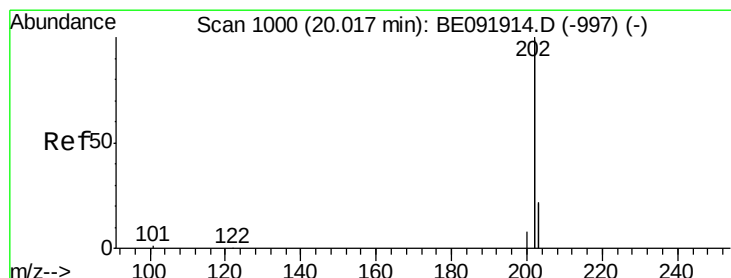
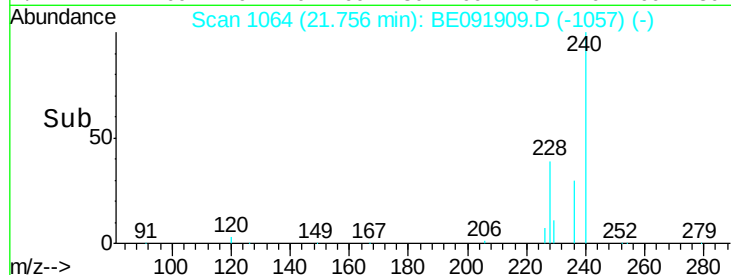
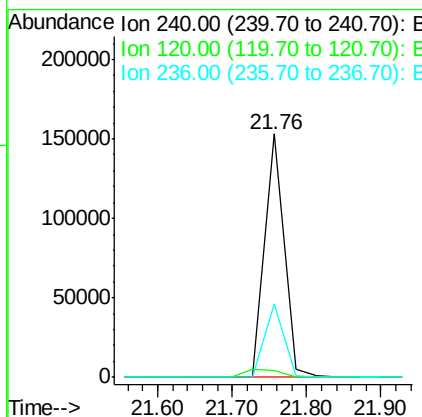
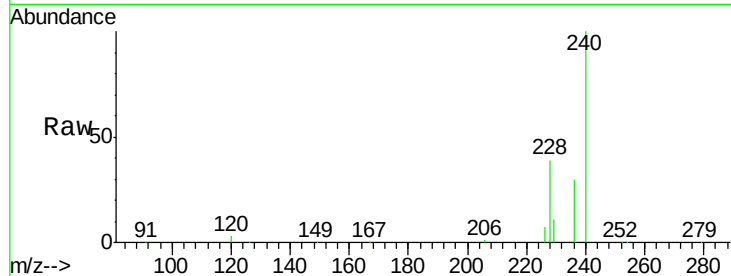
#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.76 min Scan# 1064
Delta R.T. -0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion	Ratio	Lower	Upper
240	100		
120	2.9	1.2	1.8#
236	30.4	19.8	29.8#

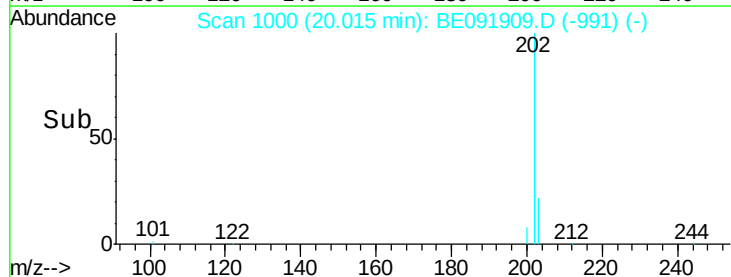
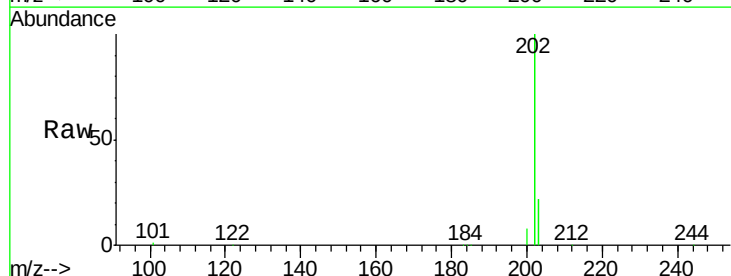
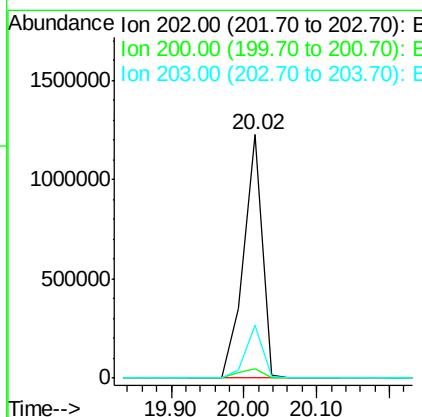
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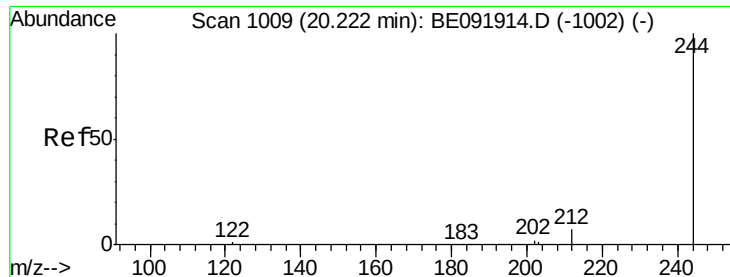
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#33
Pyrene
Concen: 31.60 ng
RT: 20.02 min Scan# 1000
Delta R.T. -0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.1	16.9	25.3#
203	19.5	14.1	21.1





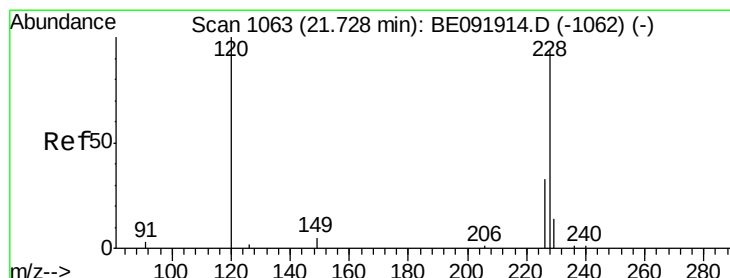
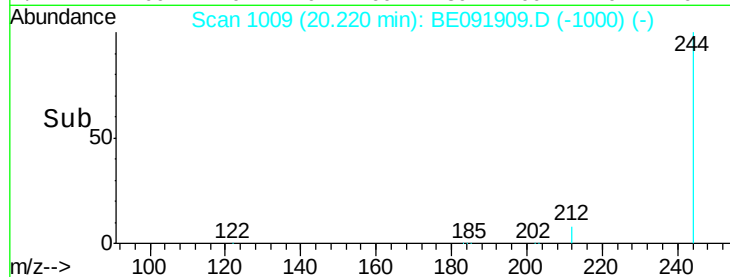
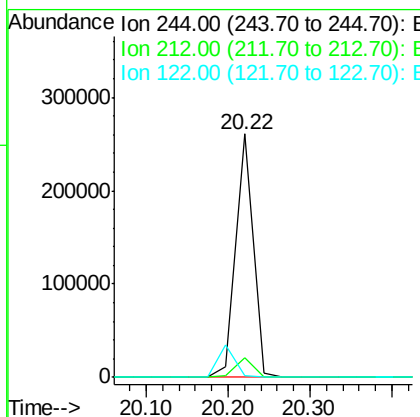
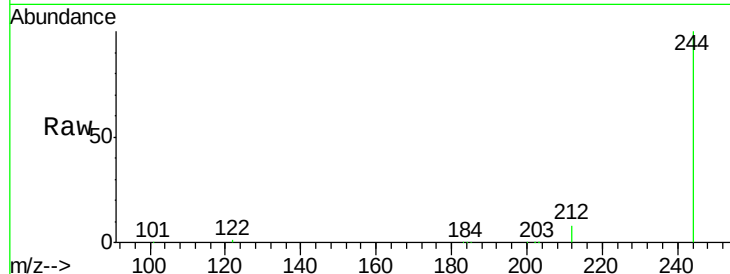
#34
 Terphenyl-d14
 Concen: 7.75 ng
 RT: 20.22 min Scan# 1009
 Delta R.T. -0.00 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.5	9.7
122	0.5	2.9	4.3

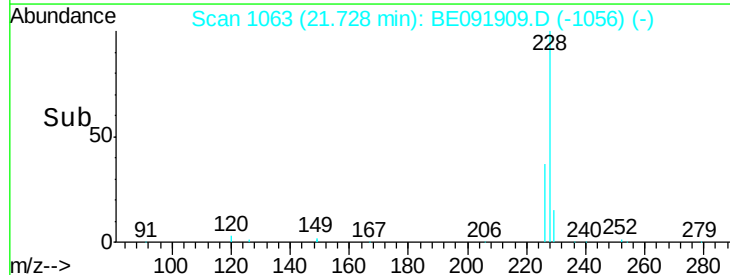
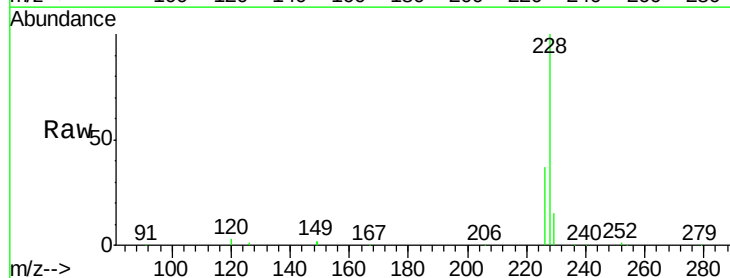
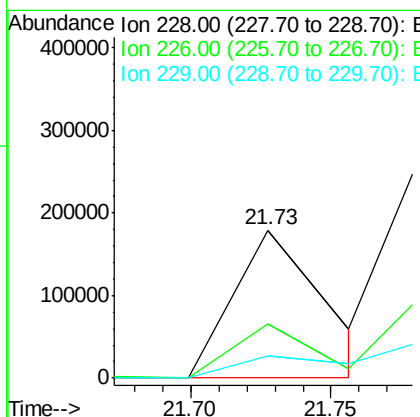
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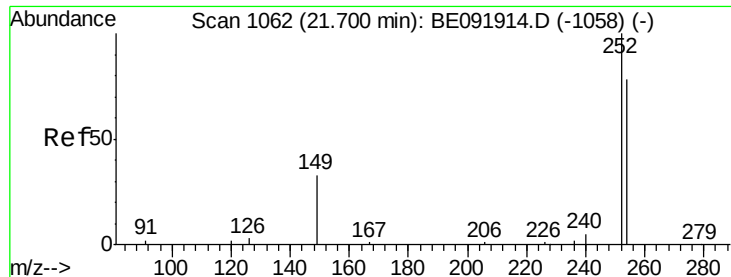
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#35
 Benzo(a)anthracene
 Concen: 1.03 ng m
 RT: 21.73 min Scan# 1063
 Delta R.T. -0.00 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.9	21.0	31.4
229	14.7	15.8	23.8





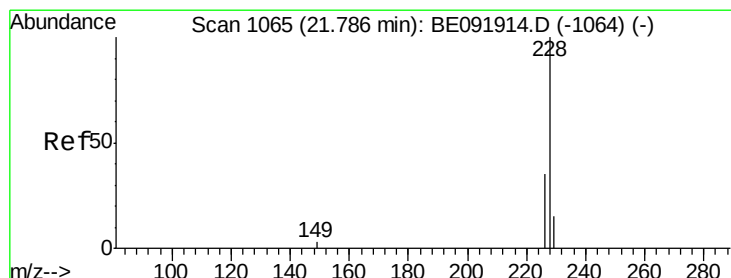
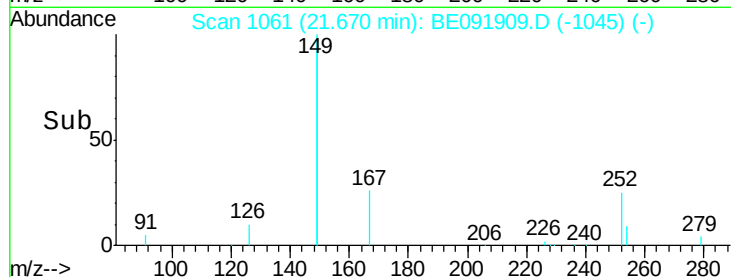
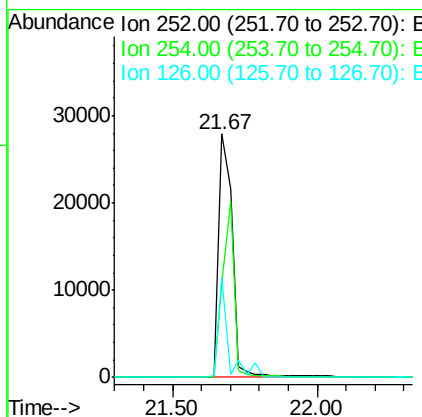
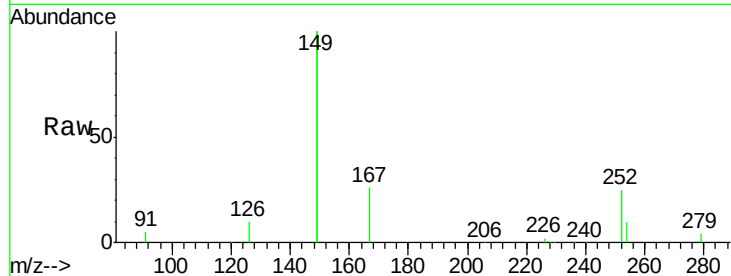
#36
 3,3'-Dichlorobenzidine
 Concen: 4.68 ng
 RT: 21.67 min Scan# 1061
 Delta R.T. -0.03 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
252	100		
254	38.7	61.5	92.3#
126	41.1	2.5	3.7#

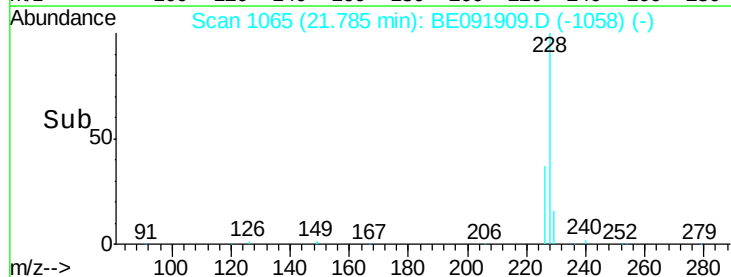
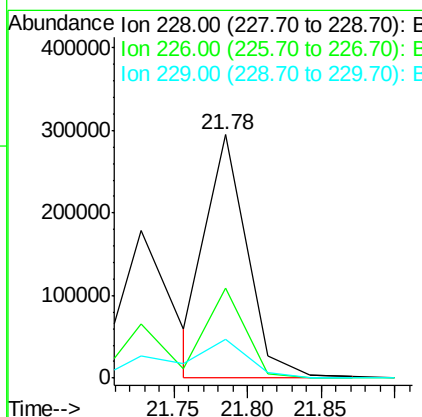
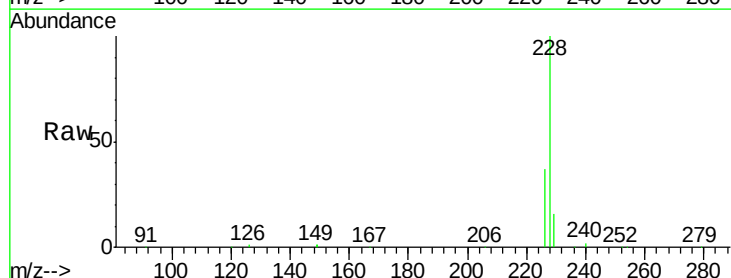
Manual Integrations
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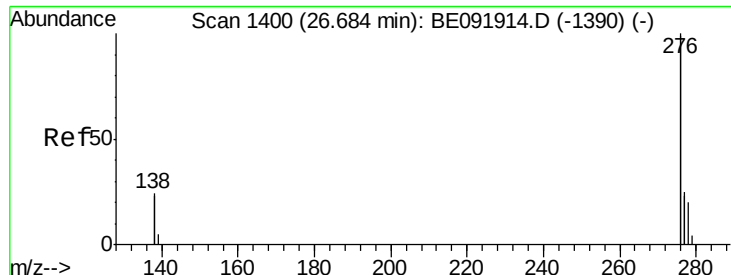
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#37
 Chrysene
 Concen: 2.00 ng m
 RT: 21.78 min Scan# 1065
 Delta R.T. -0.00 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.1	27.0	40.6
229	16.1	13.8	20.8





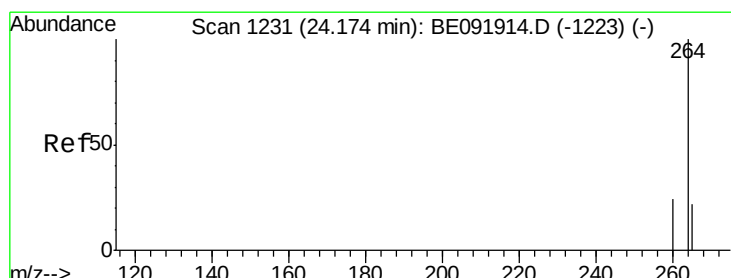
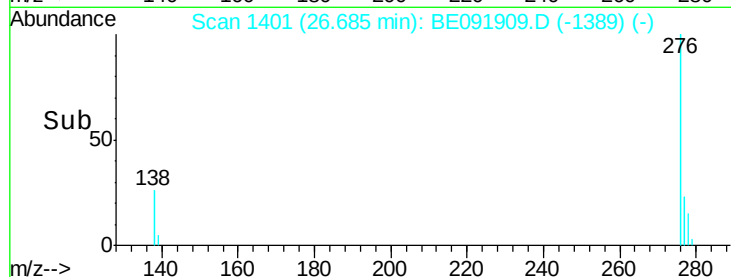
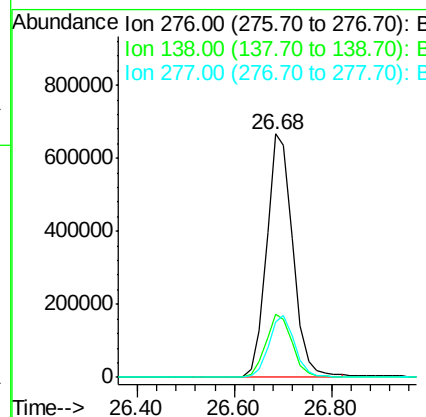
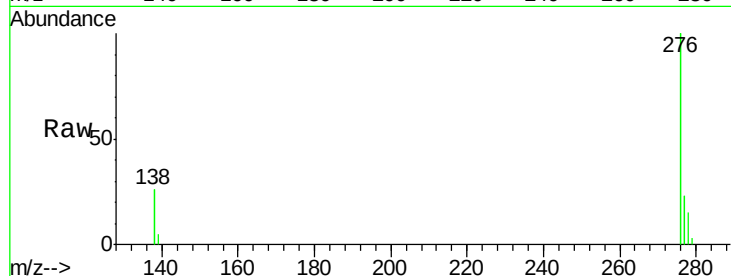
#39
Indeno(1,2,3-cd)pyrene
Concen: 30.00 ng
RT: 26.68 min Scan# 1401
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion:276 Resp: 2512349
Ion Ratio Lower Upper
276 100
138 26.3 19.7 29.5
277 25.2 20.1 30.1

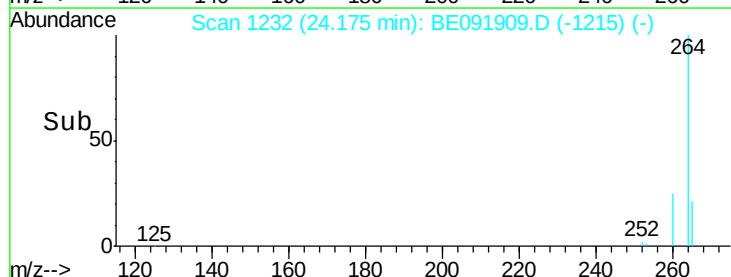
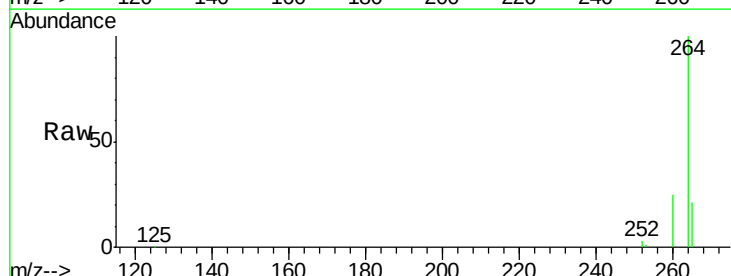
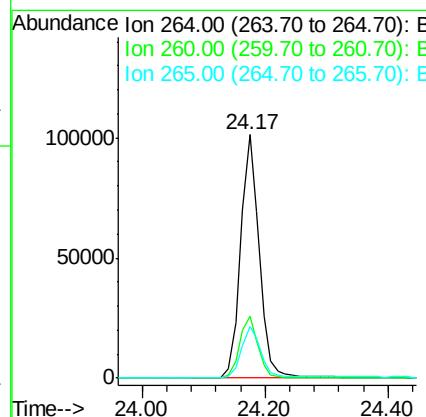
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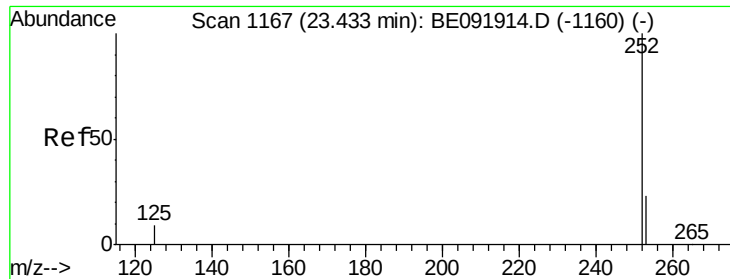
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#40
Perylene-d12
Concen: 5.00 ng
RT: 24.17 min Scan# 1232
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion:264 Resp: 215398
Ion Ratio Lower Upper
264 100
260 25.2 20.3 30.5
265 21.3 17.6 26.4





#41

Benzo(b)fluoranthene

Concen: 11.23 ng

RT: 23.43 min Scan# 1168

Delta R.T. 0.00 min

Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Instrument :

BNA_E

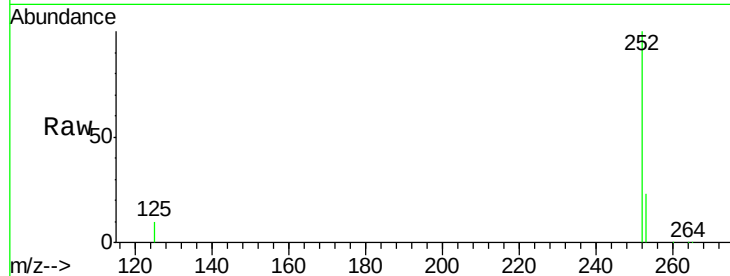
ClientSampleId :

SSTDIC010

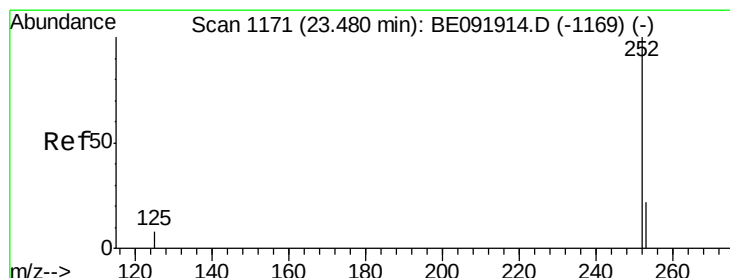
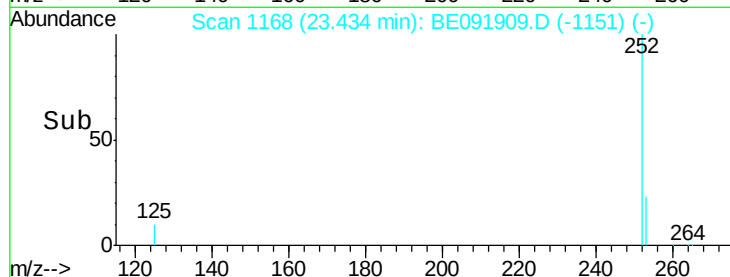
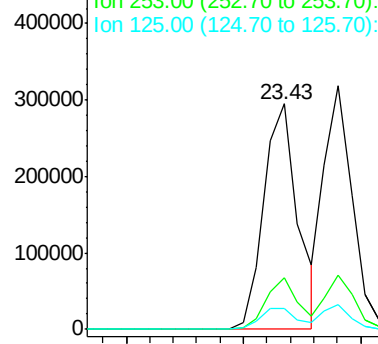
Tot Ion:	252	Resp:	591355
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.8	26.6
125	9.6	9.4	14.2

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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



#42

Benzo(k)fluoranthene

Concen: 9.90 ng

RT: 23.48 min Scan# 1172

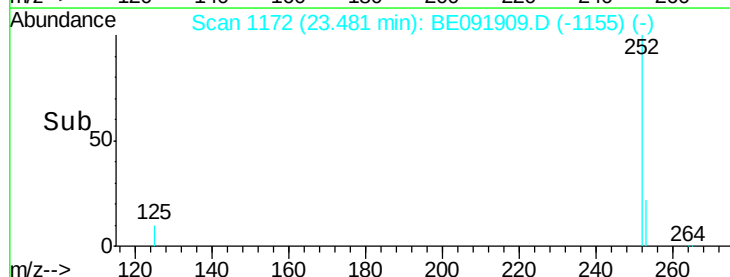
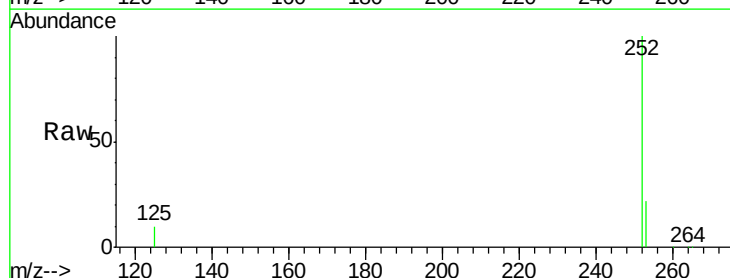
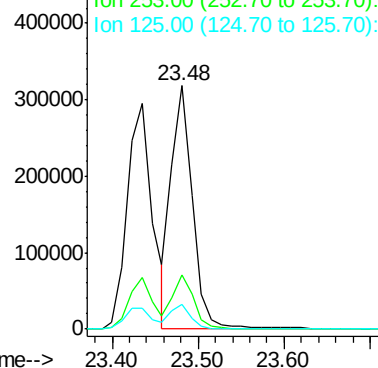
Delta R.T. 0.00 min

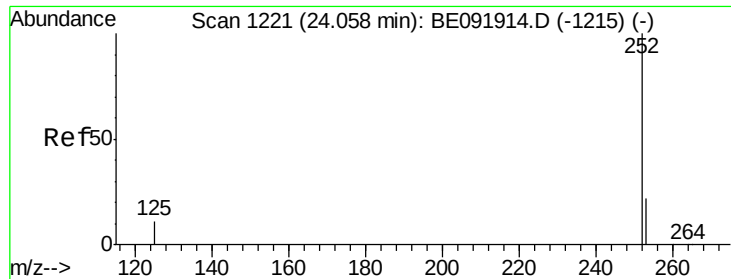
Lab File: BE091909.D

Acq: 14 Jun 2016 12:36

Tgt Ion:	252	Resp:	540622
Ion Ratio	Lower	Upper	
252	100		
253	22.1	19.4	29.2
125	10.0	8.3	12.5

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





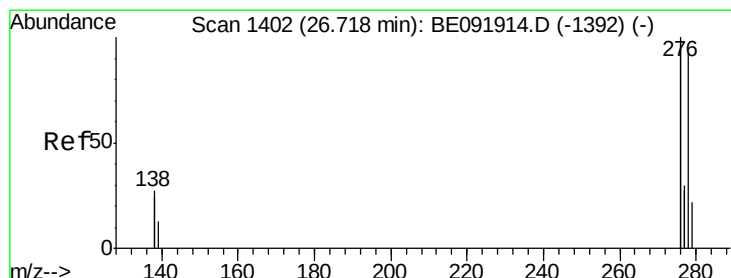
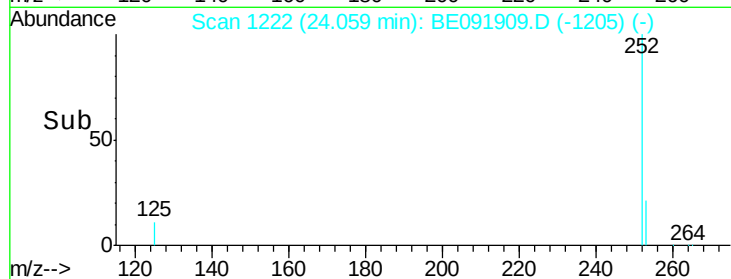
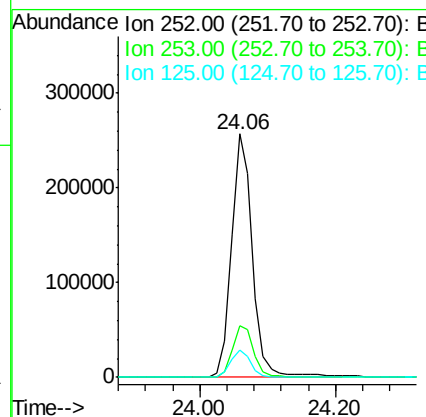
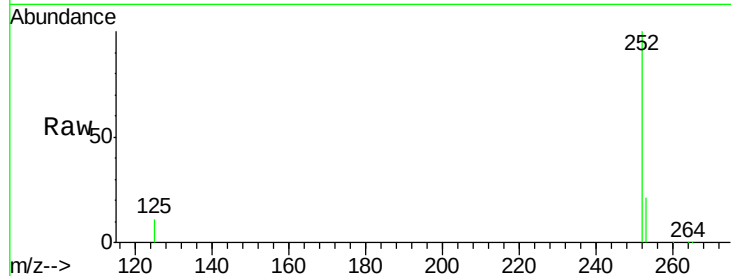
#43
Benzo(a)pyrene
Concen: 11.23 ng
RT: 24.06 min Scan# 1222
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.9	28.3
125	11.3	10.5	15.7

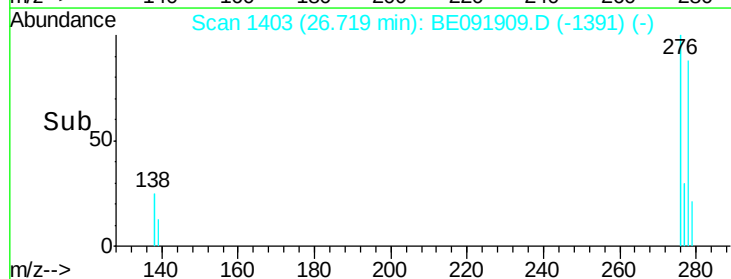
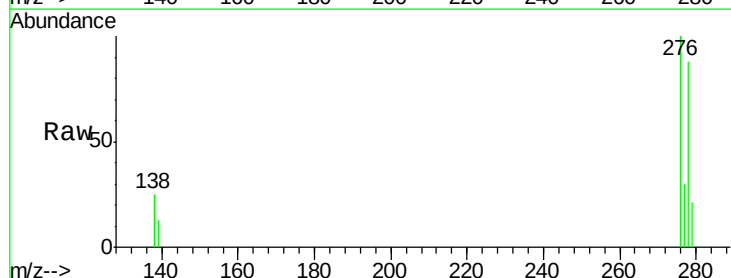
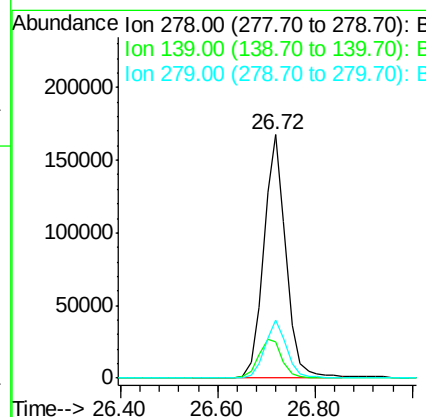
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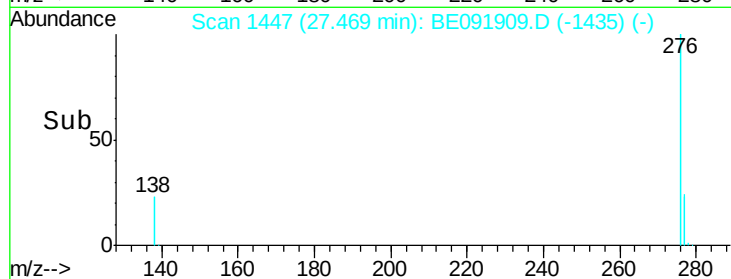
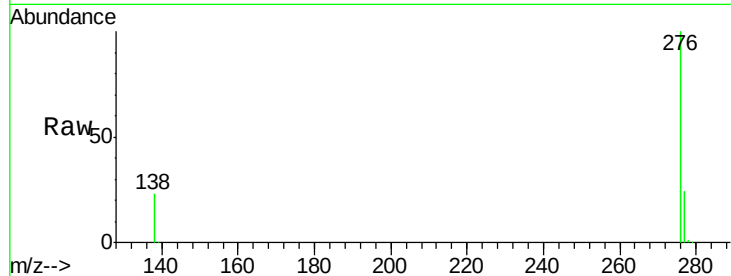
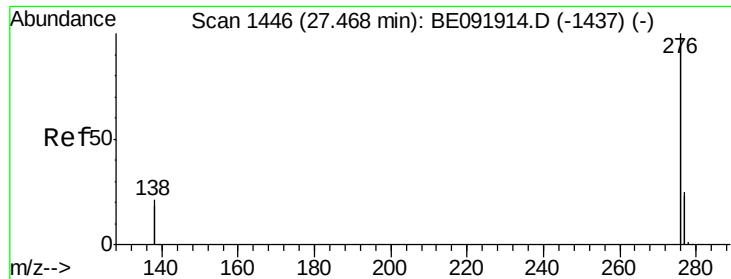
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#44
Dibenzo(a,h)anthracene
Concen: 11.57 ng
RT: 26.72 min Scan# 1403
Delta R.T. 0.00 min
Lab File: BE091909.D
Acq: 14 Jun 2016 12:36

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.9	12.6	18.8
279	24.0	20.0	30.0





#45
 Benzo(a,h,i)perylene
 Concen: 44.92 ng
 RT: 27.47 min Scan# 1447
 Delta R.T. 0.00 min
 Lab File: BE091909.D
 Acq: 14 Jun 2016 12:36

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.5	29.3
138	22.7	17.7	26.5

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