

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080316\
 Data File : BE092178.D
 Acq On : 4 Aug 2016 12:11
 Operator : UM/SJ
 Sample : H4176-20MSD
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 GW-34-7.0-15.0MSD

Manual Integrations
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 8/4/2016 6:10:24 PM

Quant Time: Aug 04 14:25:09 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	13958	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	59302	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	30122	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	59958	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	60050	5.00	ng	0.00
28) Perylene-d12	24.14	264	62561	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	206031	57.48	ng	0.00
5) Phenol-d6	7.34	99	172239	36.06	ng	-0.01
7) Nitrobenzene-d5	9.34	82	370313	79.14	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	125206	128.01	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	645466	67.62	ng	0.00
24) Terphenyl-d14	20.19	244	599356	69.50	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	4821	2.54	ng	# 79
3) n-Nitrosodimethylamine	3.78	42	7449	2.86	ng	98
8) Naphthalene	11.02	128	37466	2.94	ng	# 95
9) 2-Methylnaphthalene	12.64	142	25301	3.01	ng	93
13) Acenaphthylene	14.54	152	149741	2.82	ng	98
14) Acenaphthene	14.90	154	22490	2.66	ng	# 90
15) Fluorene	15.88	166	28519	2.66	ng	99
17) Hexachlorobenzene	16.89	284	7735	2.64	ng	# 38
18) Pentachlorophenol	17.24	266	6969	6.36	ng	# 83
19) Phenanthrene	17.60	178	48988	2.99	ng	99
20) Anthracene	17.70	178	50582	3.17	ng	98
21) Fluoranthene	19.63	202	193139	2.63	ng	97
23) Pyrene	19.99	202	206532	3.29	ng	98
25) Benzo(a)anthracene	21.72	228	200292	3.03	ng	97
26) Chrysene	21.77	228	173627m	2.63	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	242482	3.38	ng	99
29) Benzo(b)fluoranthene	23.40	252	48789	2.85	ng	97
30) Benzo(k)fluoranthene	23.45	252	45707	2.78	ng	97
31) Benzo(a)pyrene	24.02	252	46948	2.98	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	50329	3.35	ng	# 93
33) Benzo(g,h,i)perylene	27.42	276	213114	3.33	ng	95

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

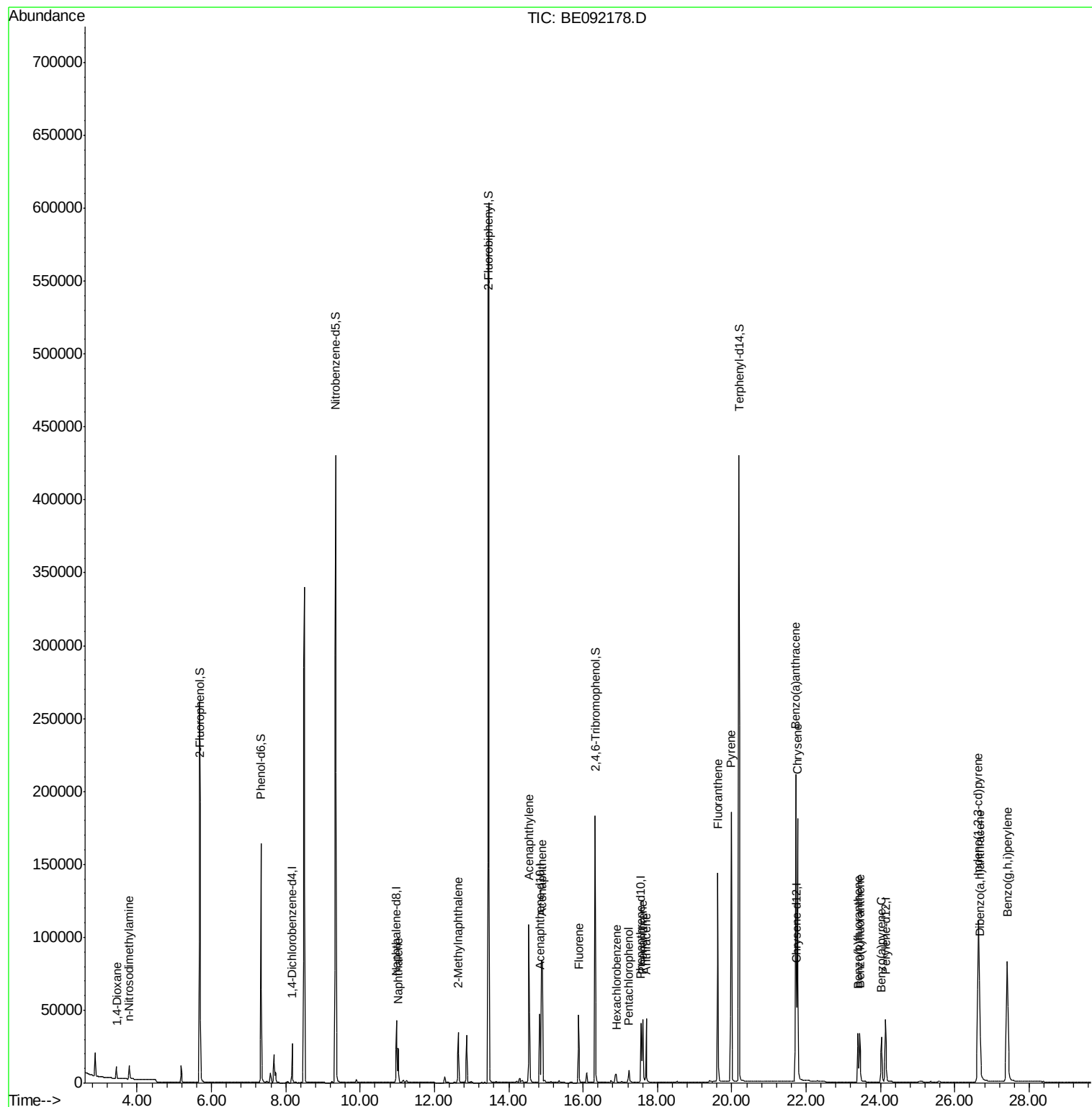
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080316\
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Sample : H4176-20MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

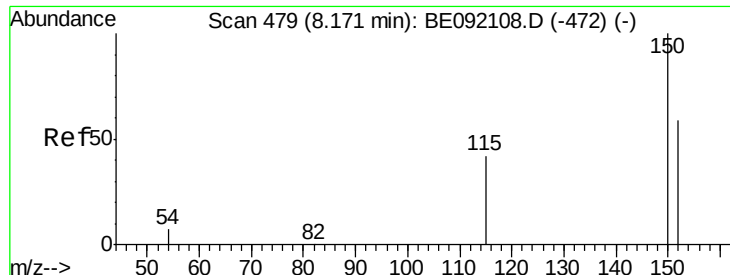
Instrument :
BNA_E
ClientSampleId :
GW-34-7.0-15.0MSD

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Quant Time: Aug 04 14:25:09 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion:152 Resp: 13958

Ion Ratio Lower Upper

152 100

150 151.7 106.0 159.0

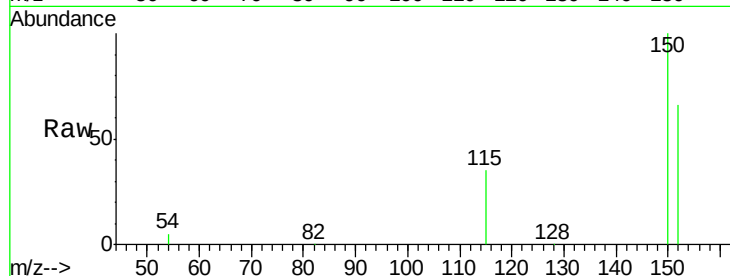
115 52.5 36.9 55.3

Manual Integrations

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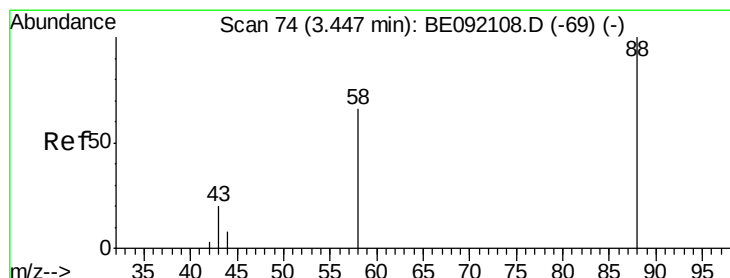
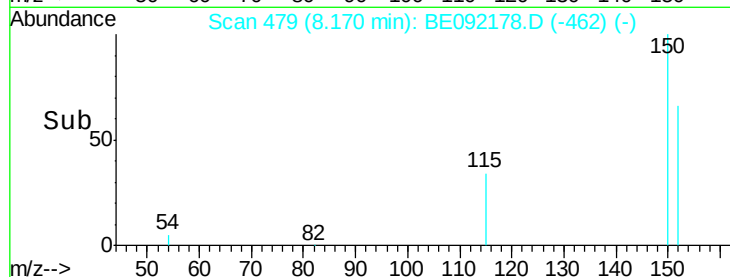
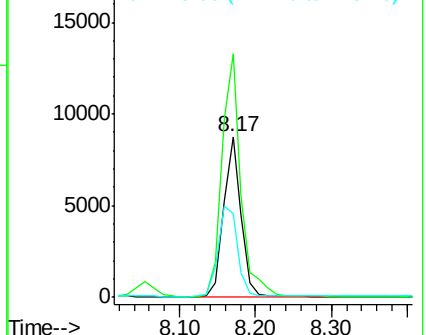
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 2.54 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

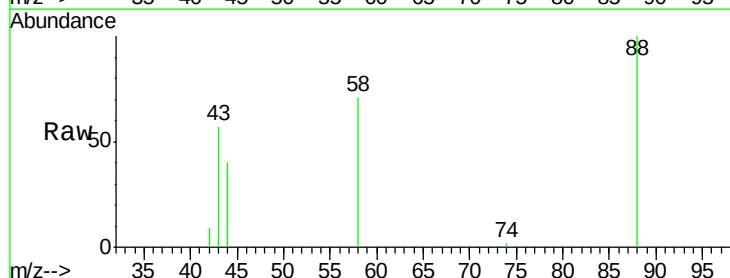
Tgt Ion: 88 Resp: 4821

Ion Ratio Lower Upper

88 100

58 90.7 62.1 93.1

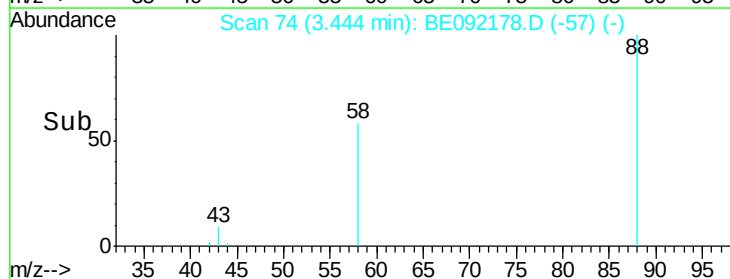
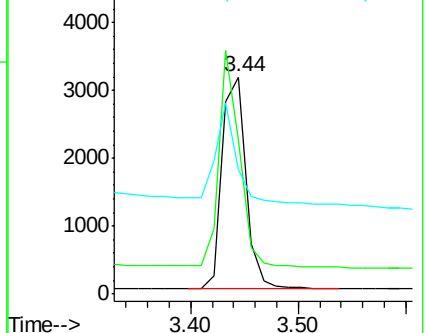
43 52.9 27.2 40.8#

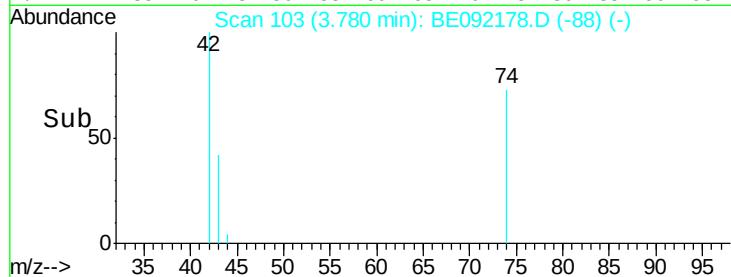
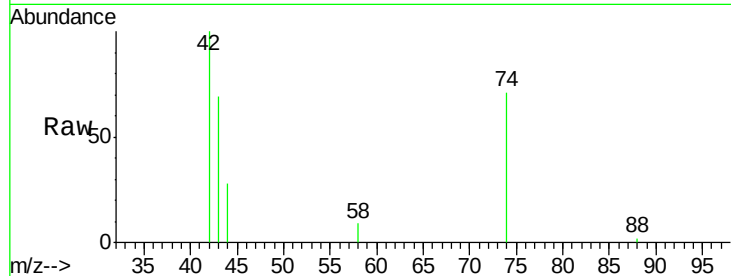
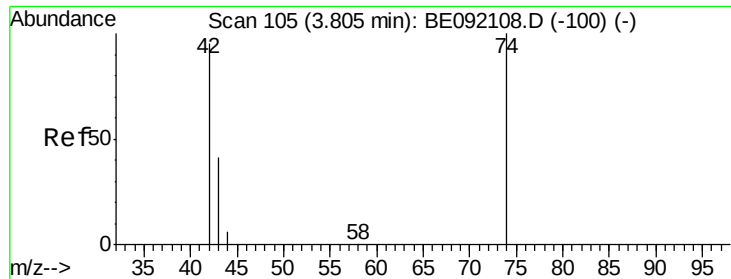


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





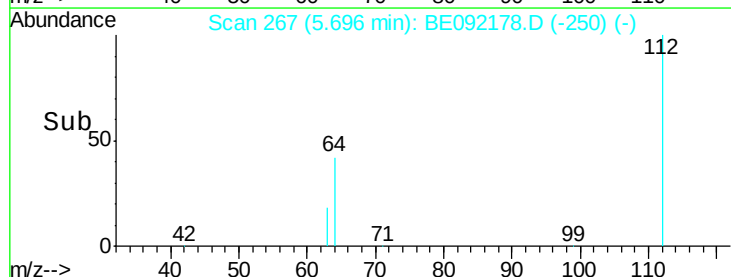
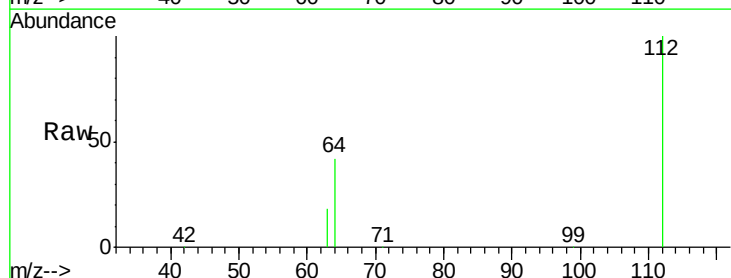
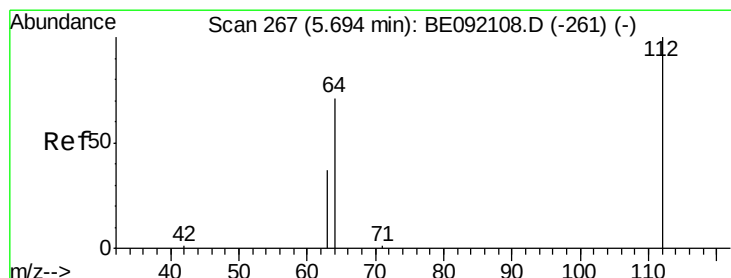
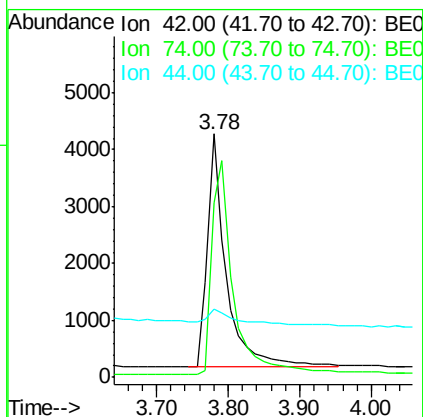
#3
n-Nitrosodimethylamine
Concen: 2.86 ng
RT: 3.78 min Scan# 103
Delta R.T. -0.03 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Lower	Upper
42	100		
74	105.1	82.8	124.2
44	10.9	9.0	13.4

Instrument :
BNA_E
ClientSampleId :
GW-34-7.0-15.0MSD

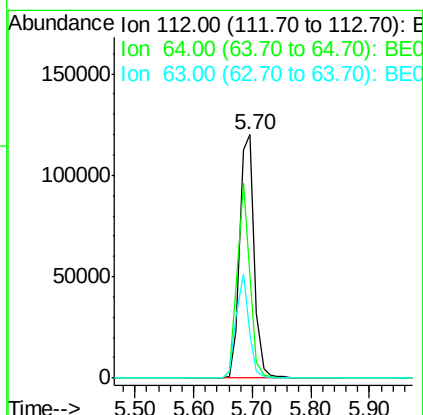
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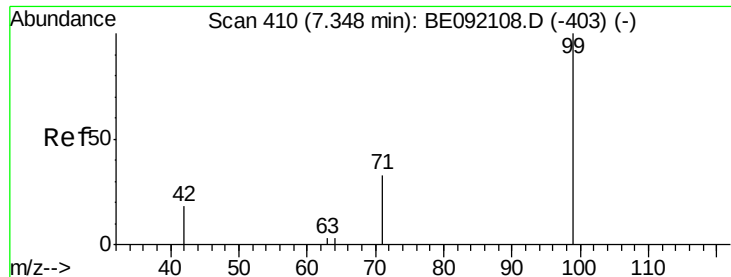
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#4
2-Fluorophenol
Concen: 57.48 ng
RT: 5.70 min Scan# 267
Delta R.T. 0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.2	55.9	83.9
63	37.3	31.1	46.7





#5

Phenol-d6

Concen: 36.06 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion: 99 Resp: 172239

Ion Ratio Lower Upper

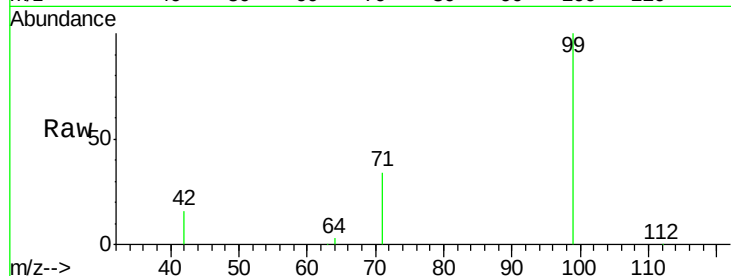
99 100

42 24.9 22.4 33.6

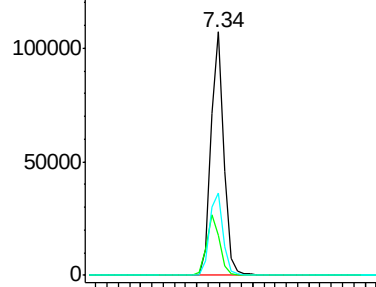
71 35.8 28.9 43.3

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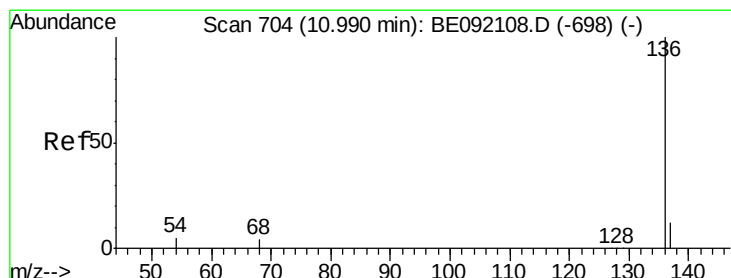
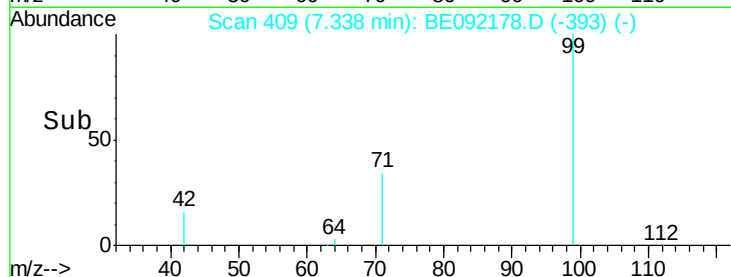
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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



Time-->



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion: 136 Resp: 59302

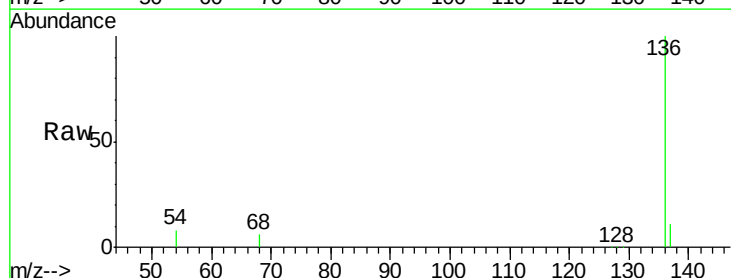
Ion Ratio Lower Upper

136 100

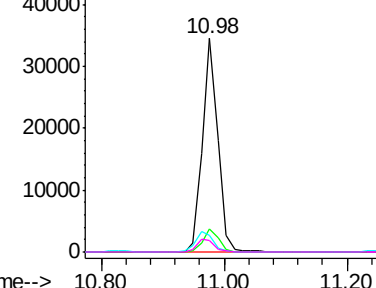
137 10.8 9.1 13.7

54 7.6 2.7 4.1#

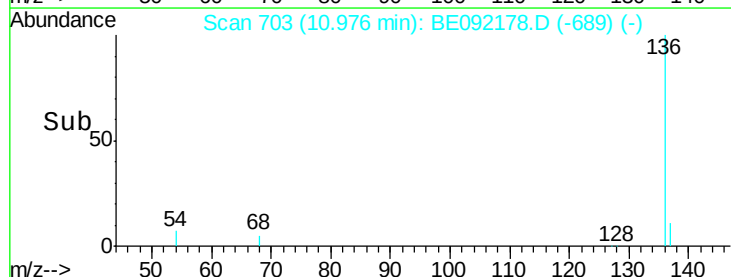
68 5.7 2.2 3.4#

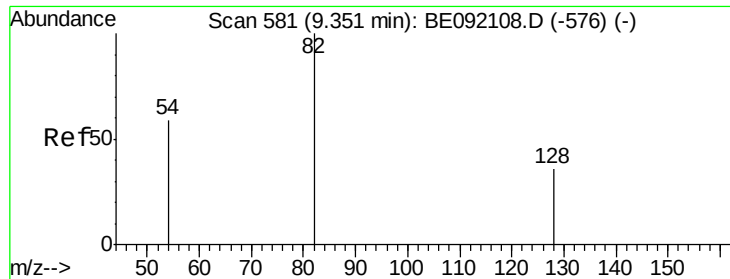


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0



Time-->





#7

Nitrobenzene-d5

Concen: 79.14 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

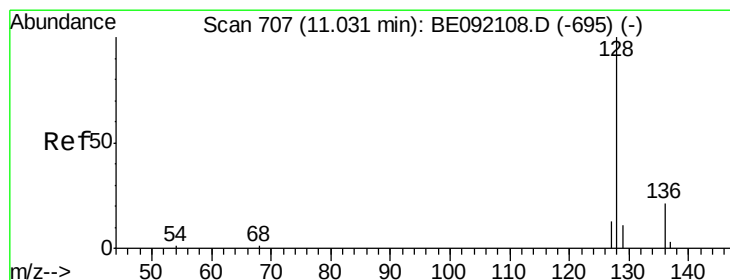
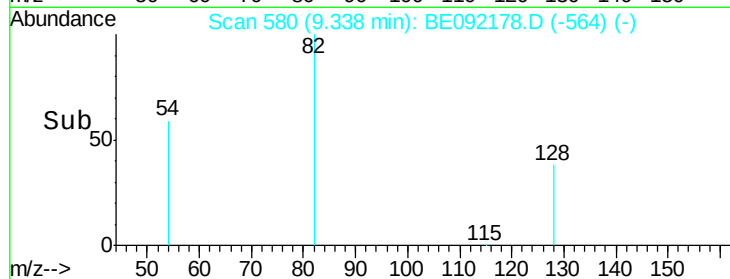
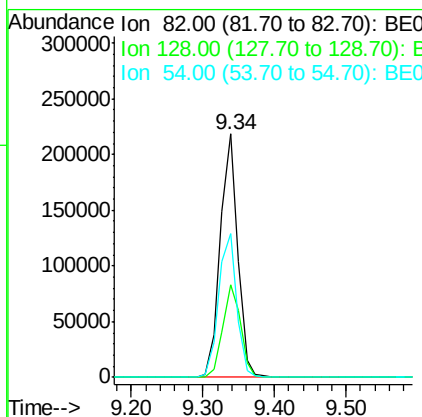
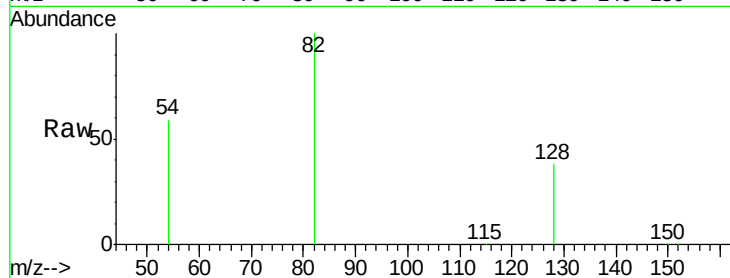
ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion:	82	Resp:	370313
Ion Ratio	Lower	Upper	
82	100		
128	37.9	33.0	49.4
54	59.1	42.6	63.8

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#8

Naphthalene

Concen: 2.94 ng

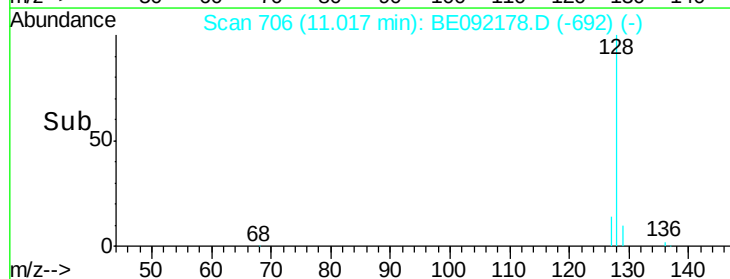
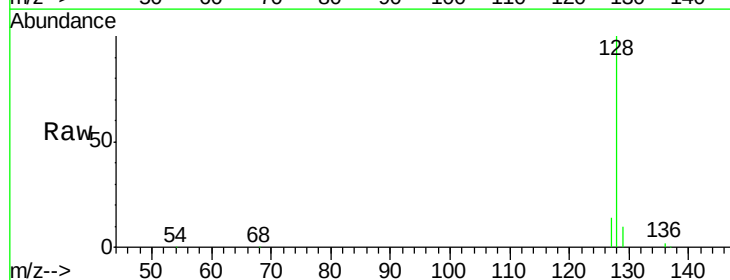
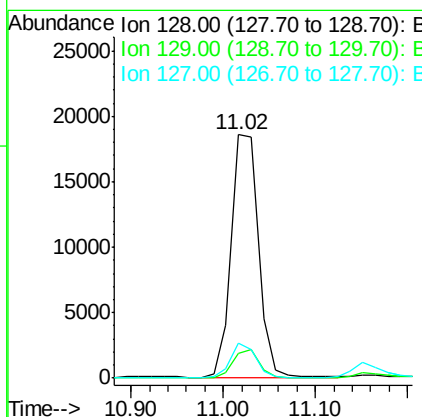
RT: 11.02 min Scan# 706

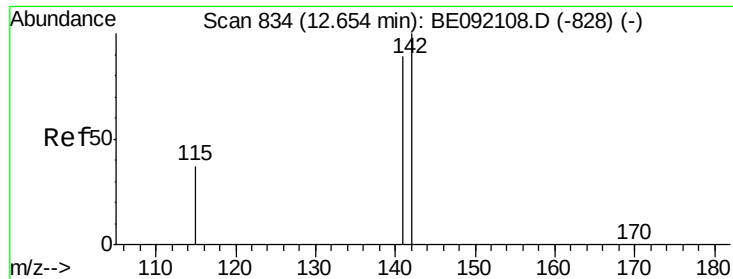
Delta R.T. -0.01 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion:	128	Resp:	37466
Ion Ratio	Lower	Upper	
128	100		
129	10.4	11.1	16.7#
127	14.4	11.3	16.9





#9

2-Methylnaphthalene

Concen: 3.01 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

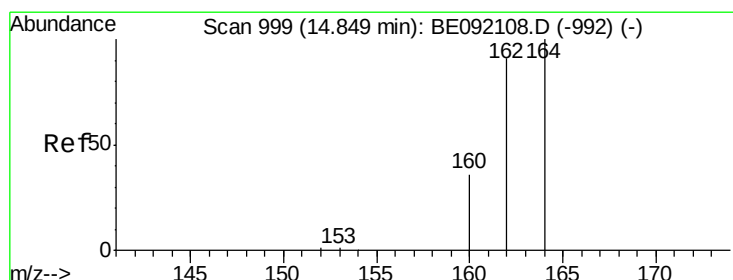
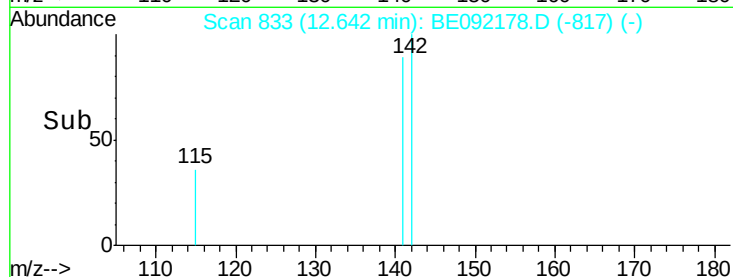
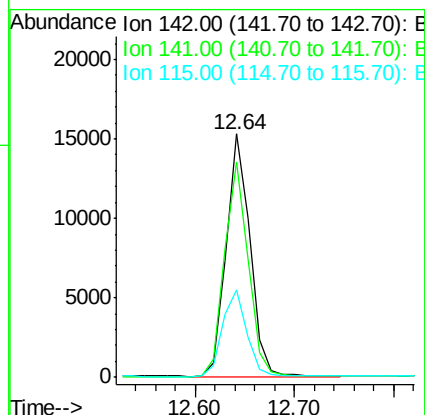
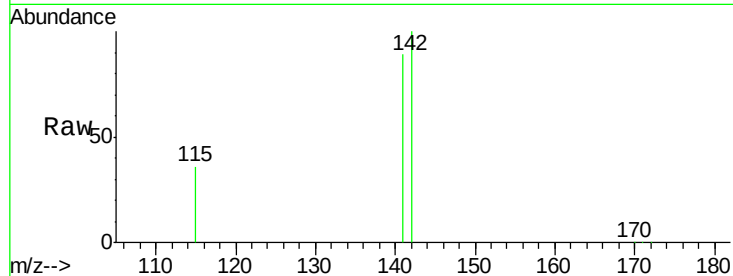
ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion:	142	Resp:	25301
Ion Ratio	Lower	Upper	
142	100		
141	88.7	65.1	97.7
115	35.9	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

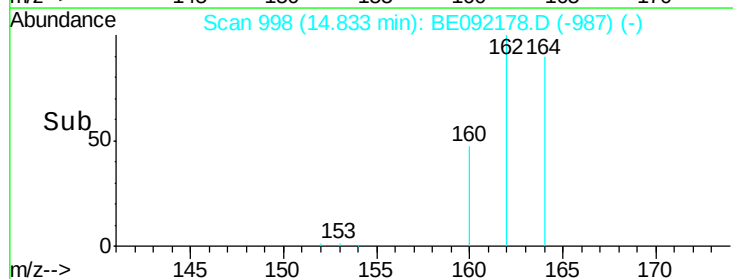
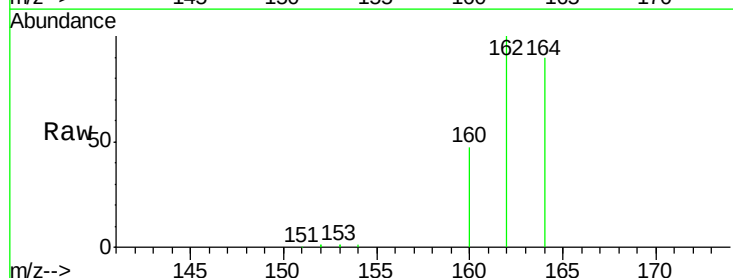
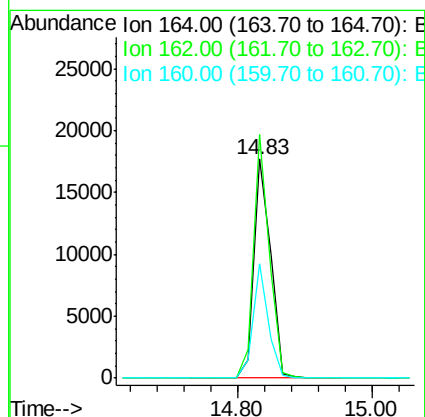
RT: 14.83 min Scan# 998

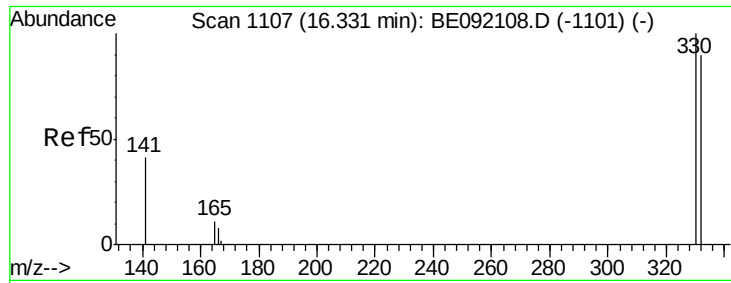
Delta R.T. -0.02 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

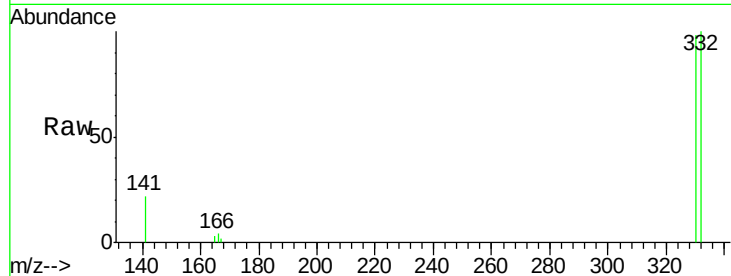
Tgt Ion:	164	Resp:	30122
Ion Ratio	Lower	Upper	
164	100		
162	111.1	69.5	104.3#
160	52.4	27.6	41.4#





#11
 2,4,6-Tribromophenol
 Concen: 128.01 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: BE092178.D
 Acq: 4 Aug 2016 12:11

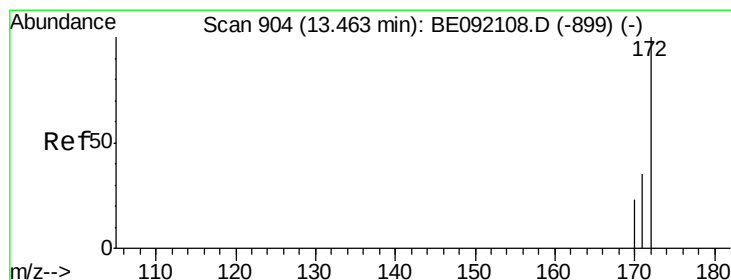
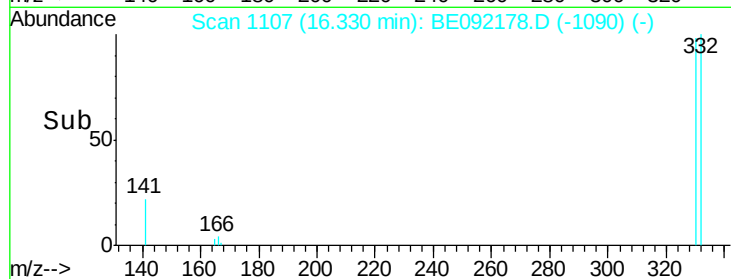
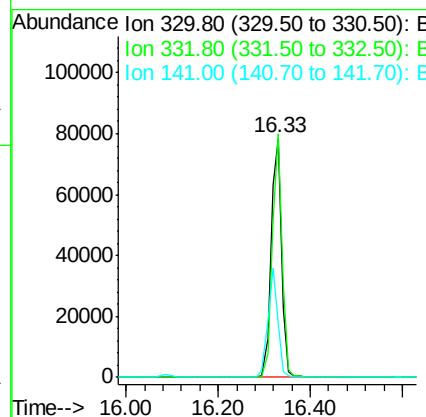
Instrument :
 BNA_E
 ClientSampleId :
 GW-34-7.0-15.0MSD



Tgt Ion: 330 Resp: 125206
 Ion Ratio Lower Upper
 330 100
 332 96.6 74.2 111.4
 141 42.8 139.8 209.8#

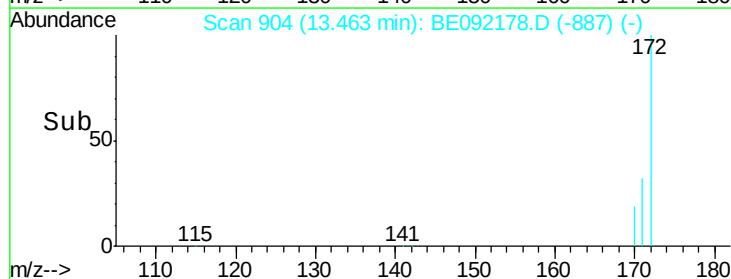
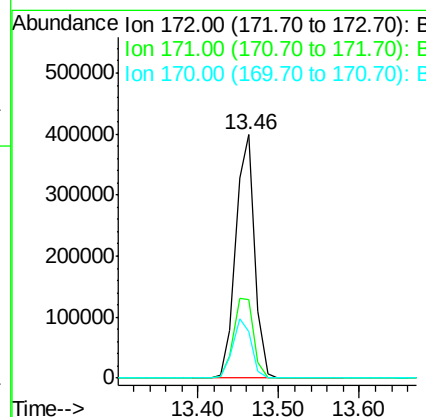
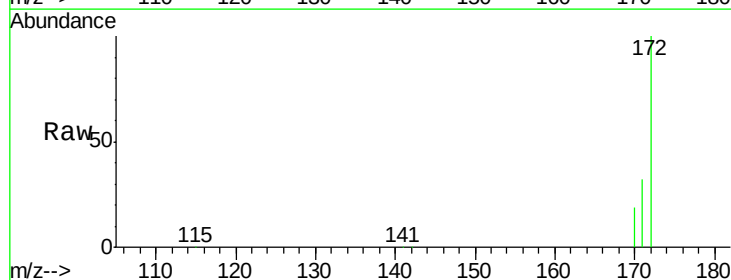
Manual Integrations
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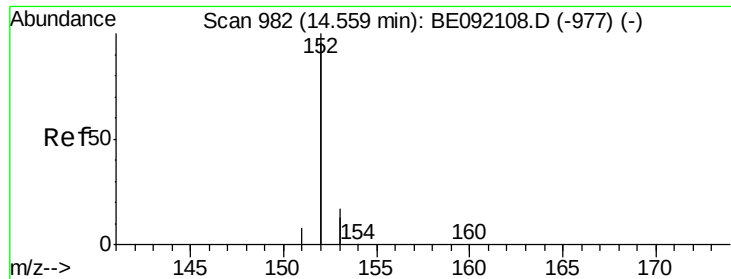
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#12
 2-Fluorobiphenyl
 Concen: 67.62 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092178.D
 Acq: 4 Aug 2016 12:11

Tgt Ion: 172 Resp: 645466
 Ion Ratio Lower Upper
 172 100
 171 32.1 30.3 45.5
 170 18.9 21.6 32.4#





#13

Acenaphthylene

Concen: 2.82 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092178.D

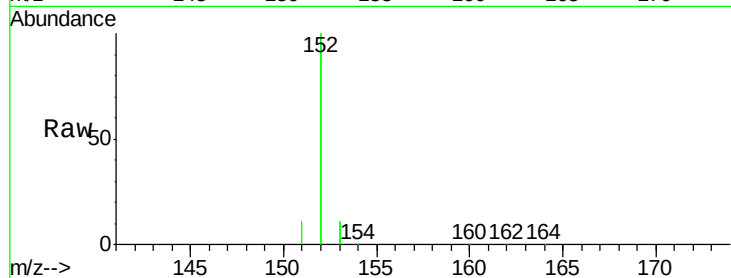
Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

ClientSampleId :

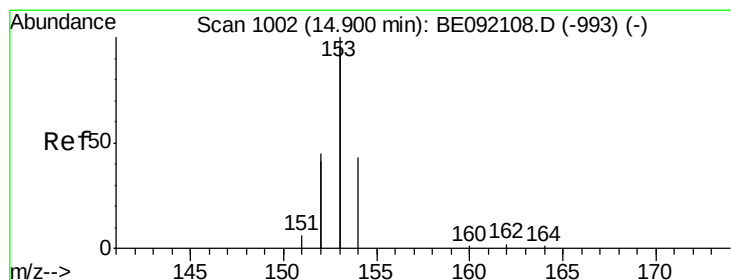
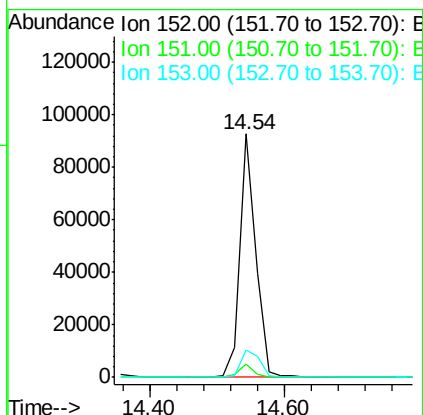
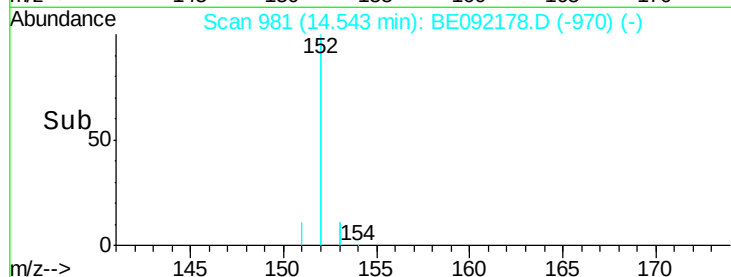
GW-34-7.0-15.0MSD



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

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#14

Acenaphthene

Concen: 2.66 ng

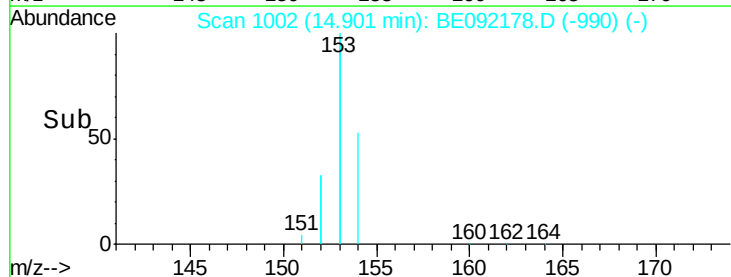
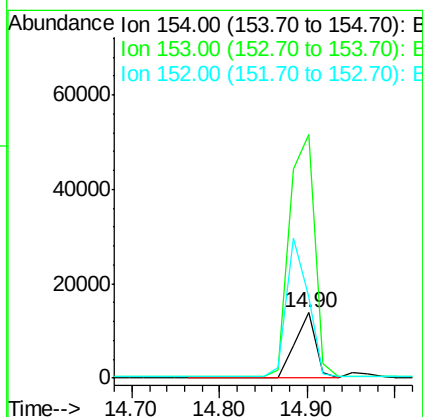
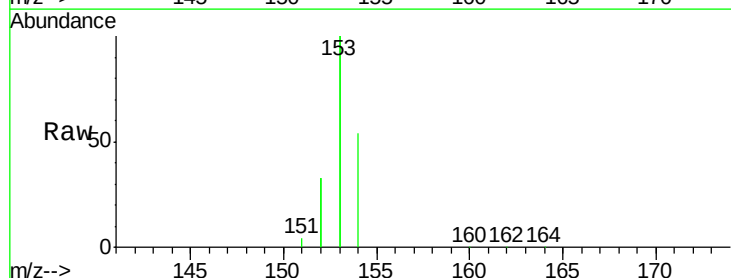
RT: 14.90 min Scan# 1002

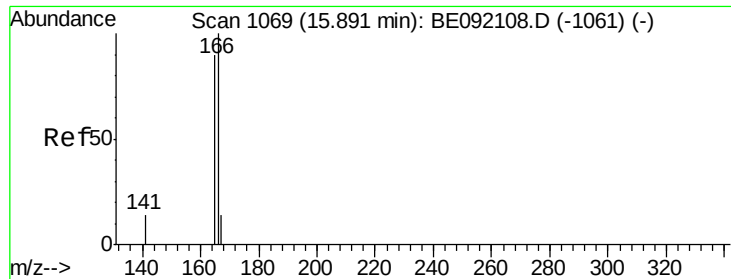
Delta R.T. 0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Lower	Upper
154	100		
153	456.4	345.1	517.7
152	222.9	0.0	0.0#





#15

Fluorene

Concen: 2.66 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

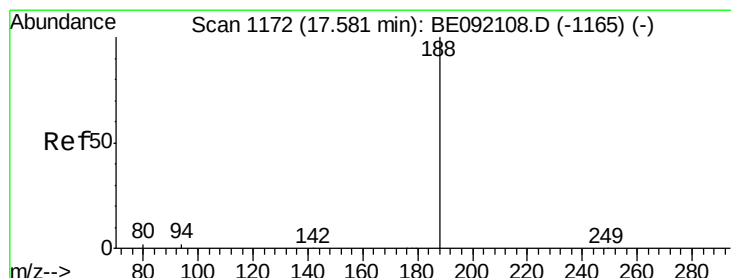
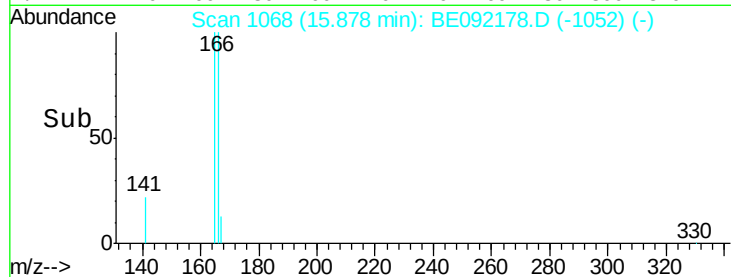
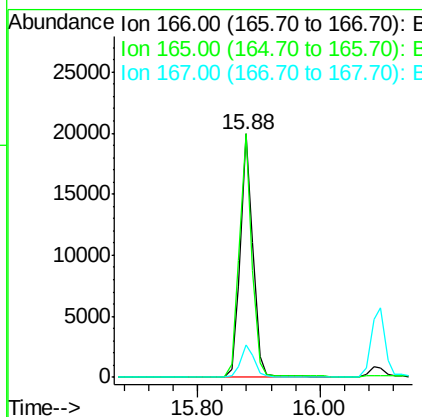
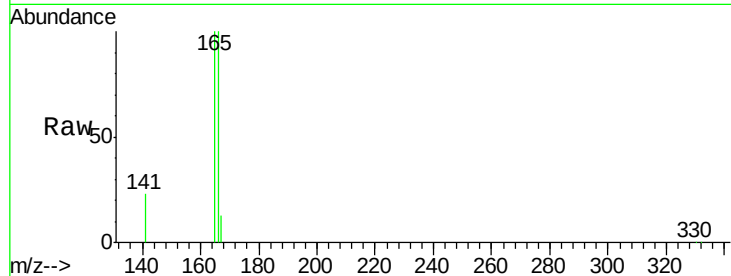
ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion:	166	Resp:	28519
Ion Ratio	Lower	Upper	
166	100		
165	99.4	78.6	118.0
167	13.5	11.1	16.7

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#16

Phenanthrene-d10

Concen: 5.00 ng

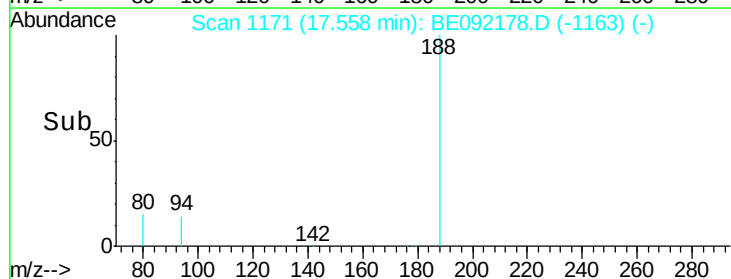
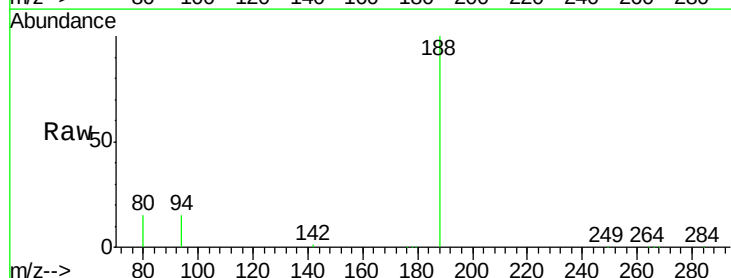
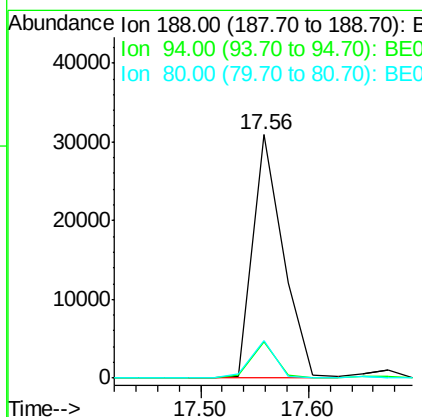
RT: 17.56 min Scan# 1171

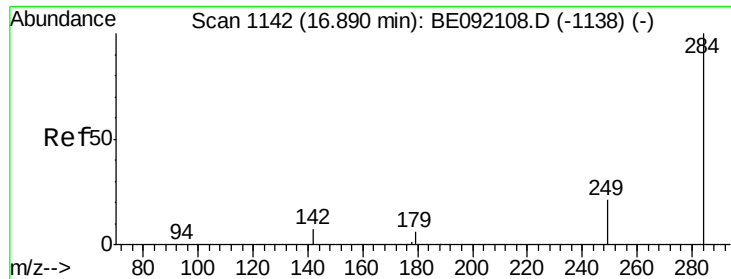
Delta R.T. -0.02 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion:	188	Resp:	59958
Ion Ratio	Lower	Upper	
188	100		
94	14.7	3.9	5.9#
80	15.2	3.4	5.0#





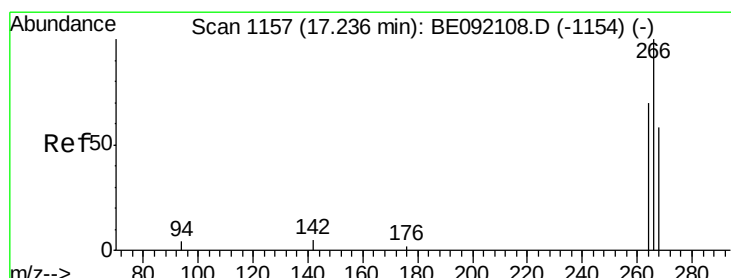
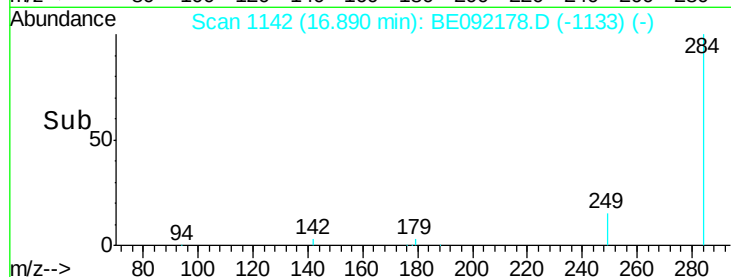
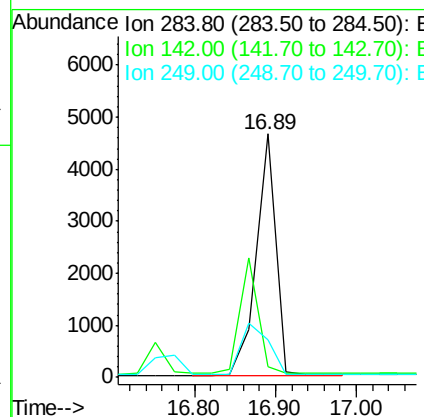
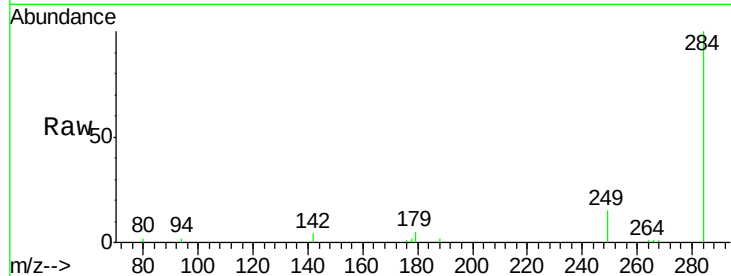
#17
Hexachlorobenzene
Concen: 2.64 ng
RT: 16.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Instrument :
BNA_E
ClientSampleId :
GW-34-7.0-15.0MSD

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	7735		
142	0.0	33.3	49.9#	
249	0.0	25.4	38.0#	

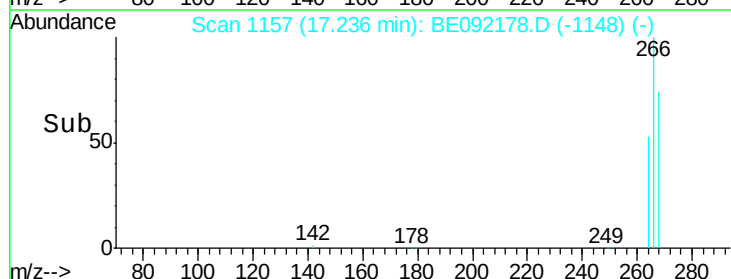
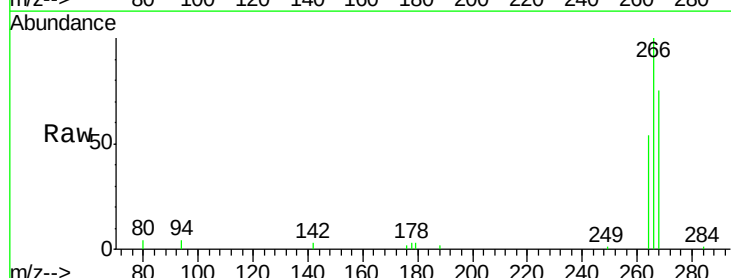
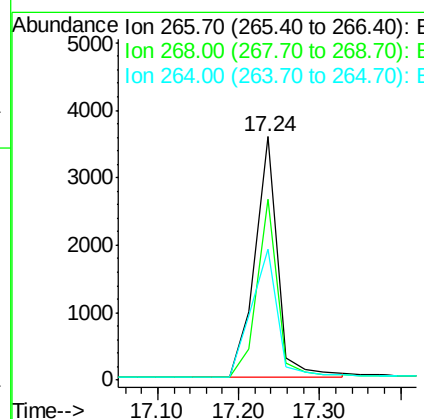
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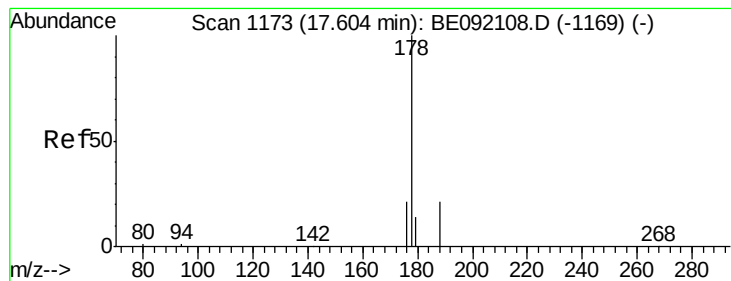
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#18
Pentachlorophenol
Concen: 6.36 ng
RT: 17.24 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	6969		
268	74.5	62.7	94.1	
264	53.8	63.5	95.3#	





#19

Phenanthrene

Concen: 2.99 ng

RT: 17.60 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

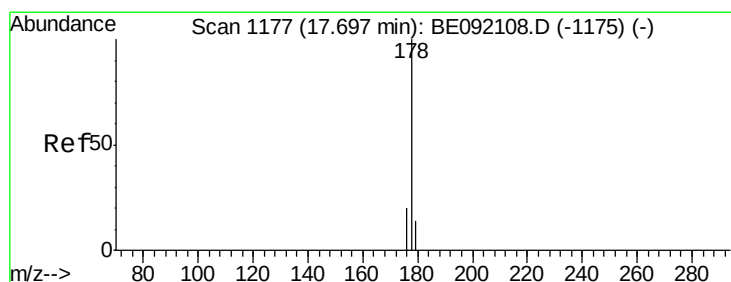
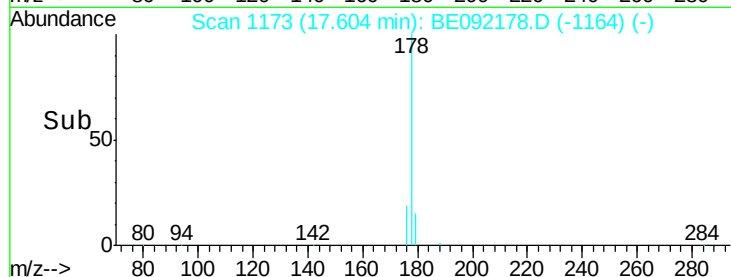
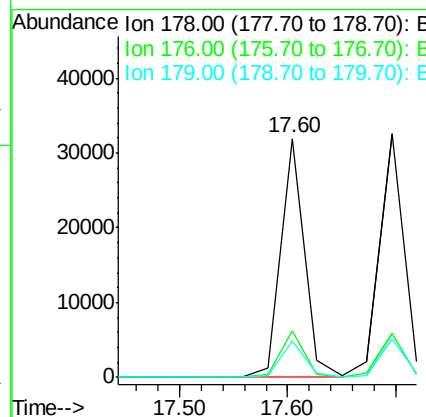
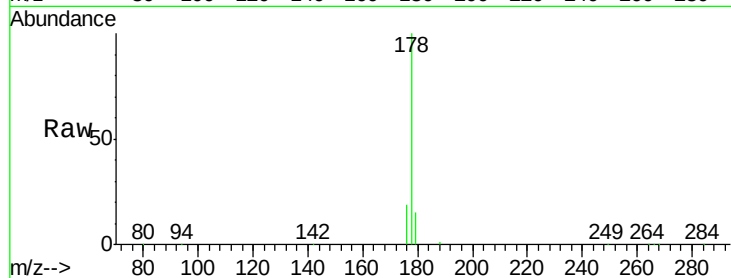
ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion:	178	Resp:	48988
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.4	23.0
179	15.3	12.7	19.1

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#20

Anthracene

Concen: 3.17 ng

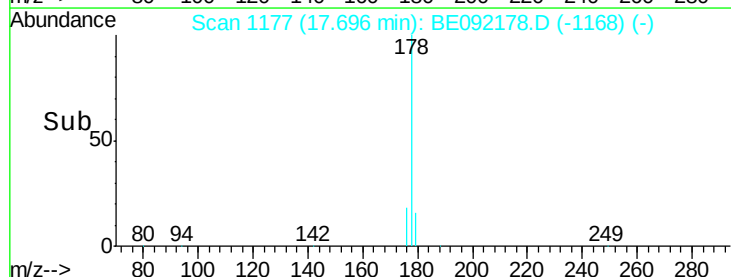
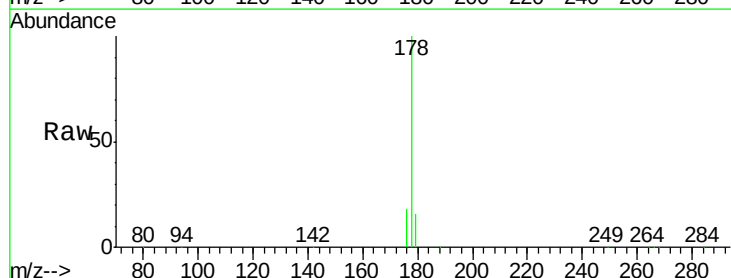
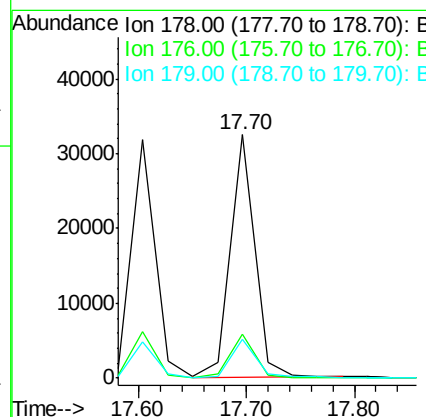
RT: 17.70 min Scan# 1177

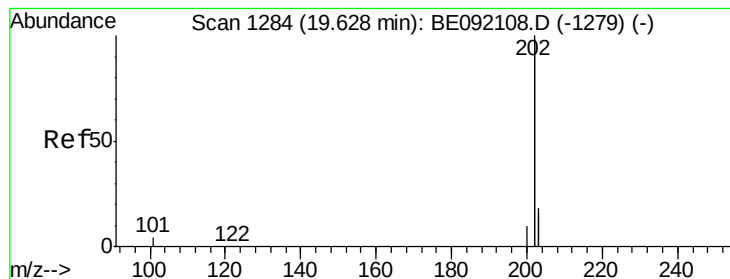
Delta R.T. -0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion:	178	Resp:	50582
Ion Ratio	Lower	Upper	
178	100		
176	18.0	15.2	22.8
179	15.9	12.2	18.4





#21

Fluoranthene

Concen: 2.63 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

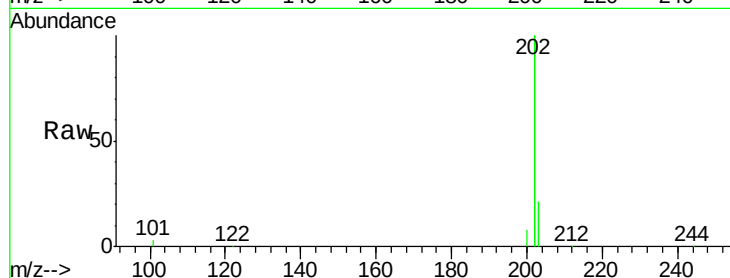
ClientSampleId :

GW-34-7.0-15.0MSD

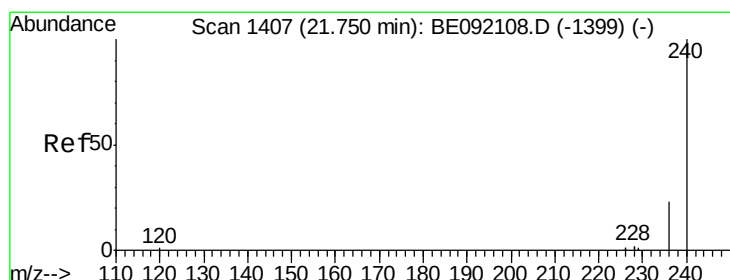
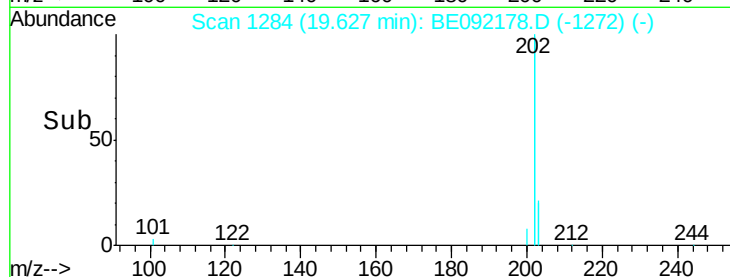
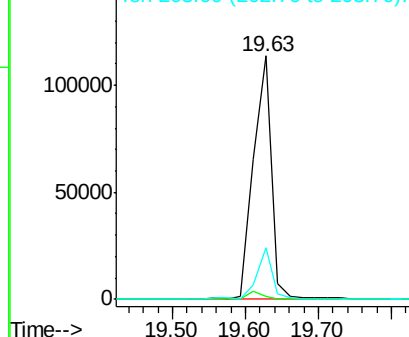
Tgt Ion:	202	Resp:	193139
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.2
203	17.8	13.0	19.4

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

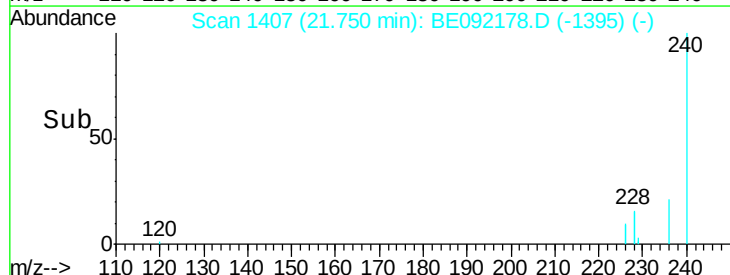
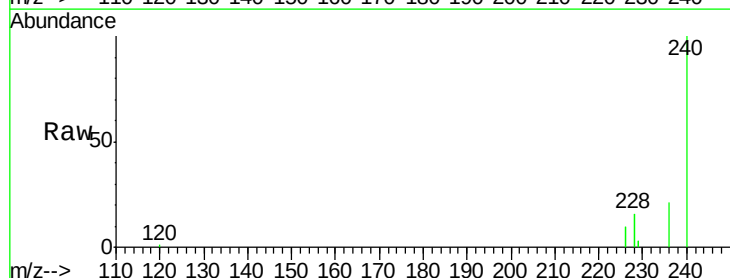
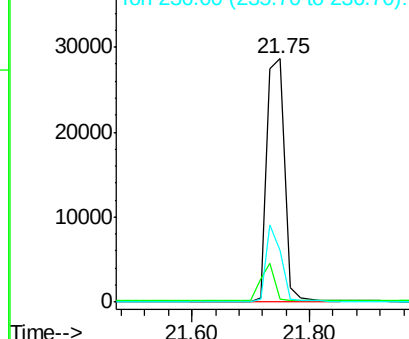
Delta R.T. -0.00 min

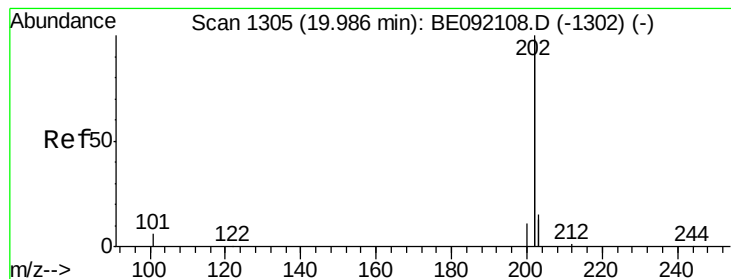
Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion:	240	Resp:	60050
Ion Ratio	Lower	Upper	
240	100		
120	1.5	0.6	1.0#
236	21.3	18.2	27.4

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#23

Pyrene

Concen: 3.29 ng

RT: 19.99 min Scan# 1305

Delta R.T. -0.00 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Instrument :

BNA_E

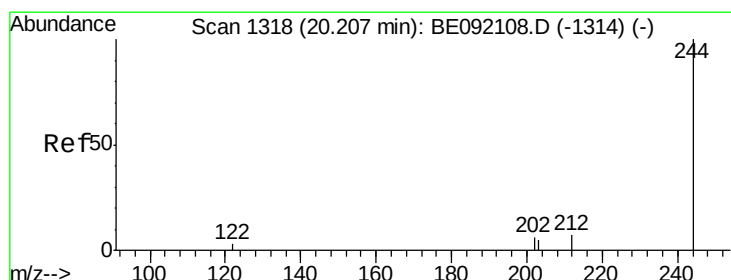
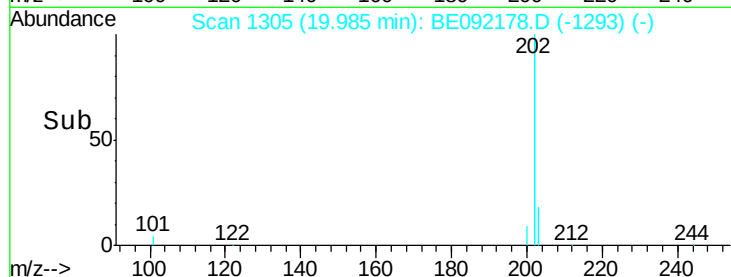
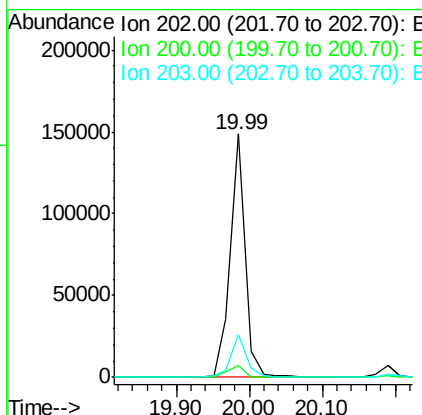
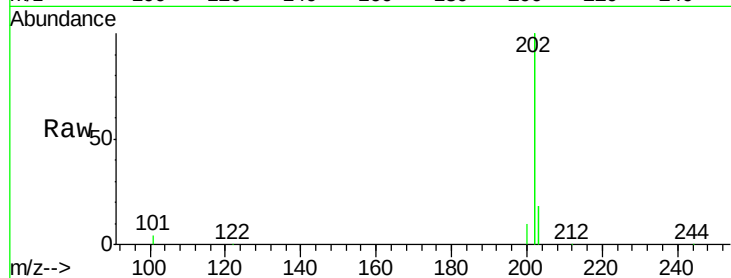
ClientSampleId :

GW-34-7.0-15.0MSD

Tgt Ion:	202	Resp:	206532
Ion Ratio	Lower	Upper	
202	100		
200	5.3	4.4	6.6
203	17.9	13.4	20.0

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#24

Terphenyl-d14

Concen: 69.50 ng

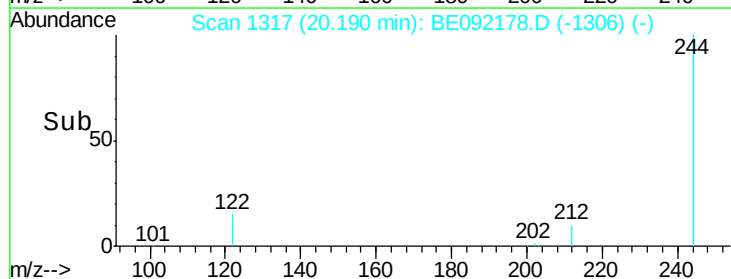
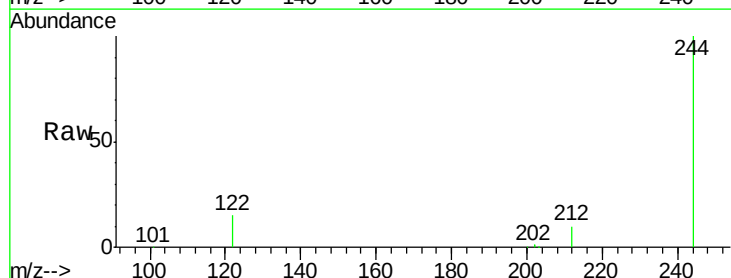
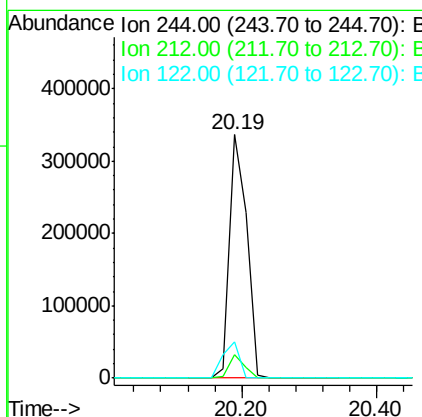
RT: 20.19 min Scan# 1317

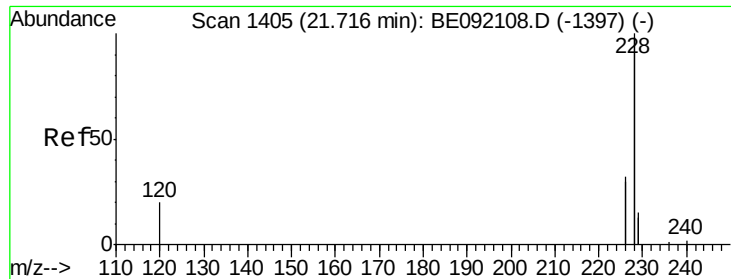
Delta R.T. -0.02 min

Lab File: BE092178.D

Acq: 4 Aug 2016 12:11

Tgt Ion:	244	Resp:	599356
Ion Ratio	Lower	Upper	
244	100		
212	9.8	9.1	13.7
122	15.1	11.0	16.4





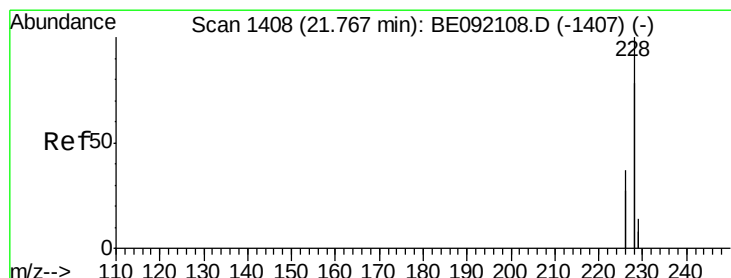
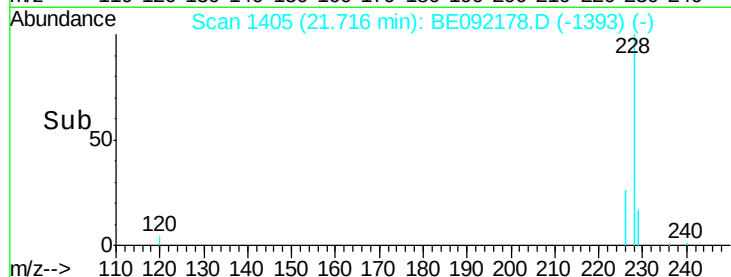
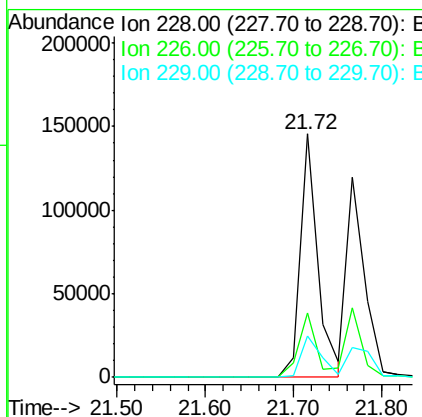
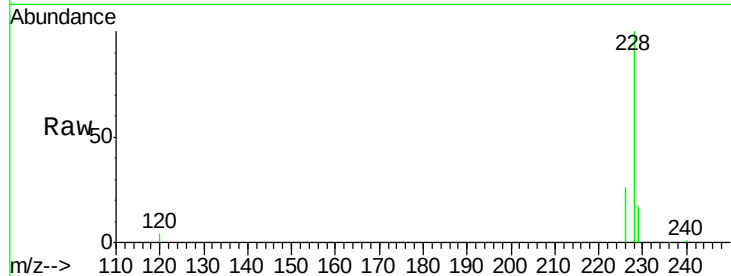
#25
Benzo(a)anthracene
Concen: 3.03 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Instrument :
BNA_E
ClientSampleId :
GW-34-7.0-15.0MSD

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	200292		
226	26.3	22.1	33.1	
229	17.0	15.1	22.7	

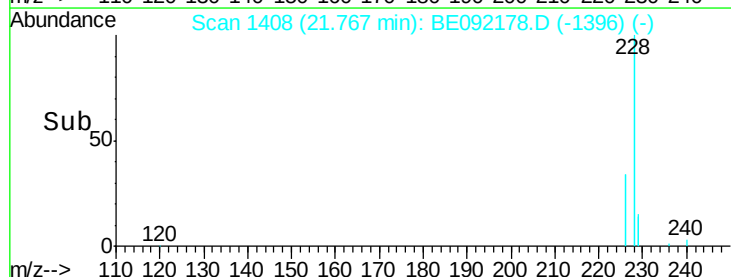
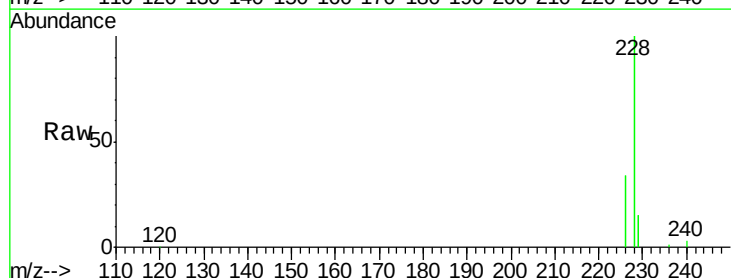
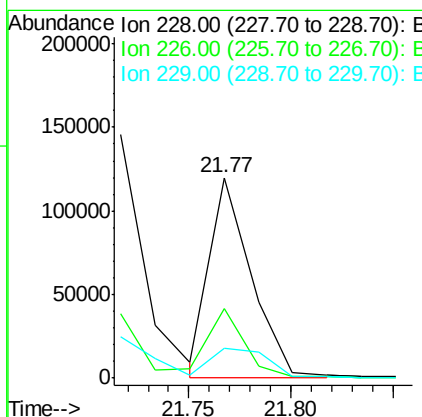
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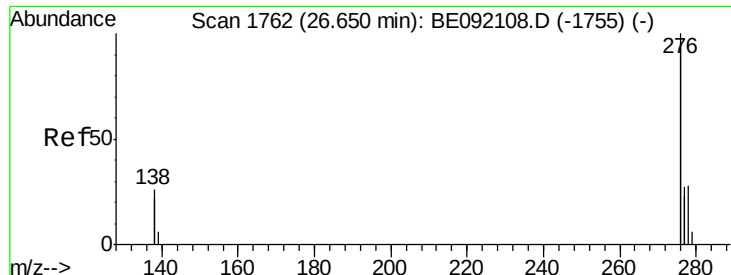
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#26
Chrysene
Concen: 2.63 ng m
RT: 21.77 min Scan# 1408
Delta R.T. -0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	173627		
226	34.4	22.3	33.5#	
229	15.1	16.9	25.3#	





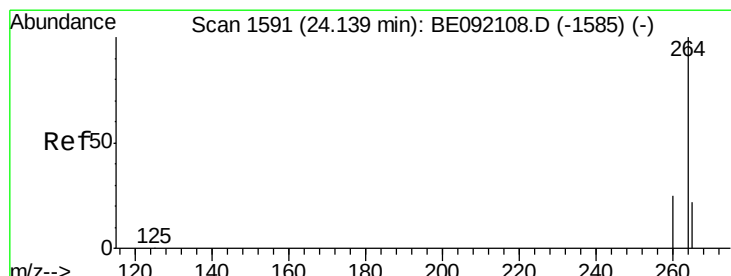
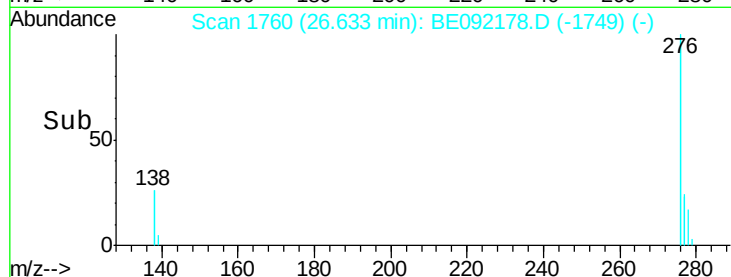
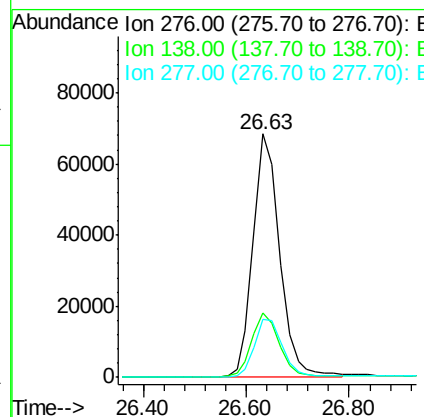
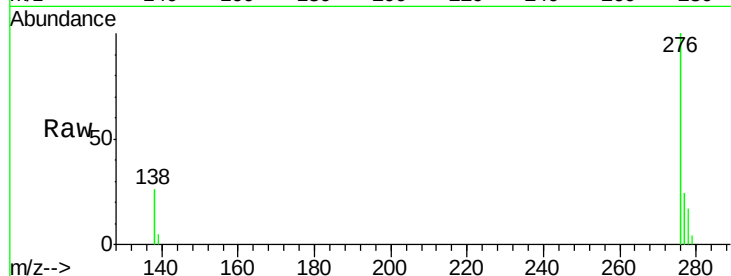
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 3.38 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092178.D
 Acq: 4 Aug 2016 12:11

Instrument :
 BNA_E
 ClientSampleId :
 GW-34-7.0-15.0MSD

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	242482		
138	27.1	21.2	31.8	
277	24.9	19.8	29.8	

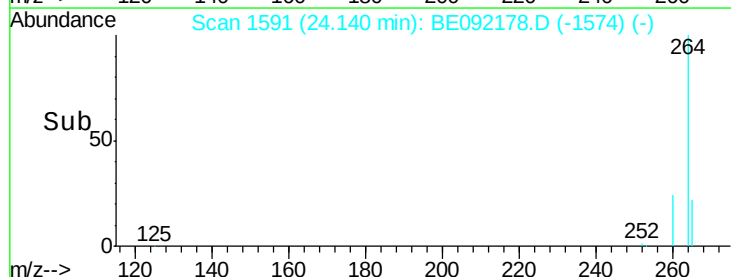
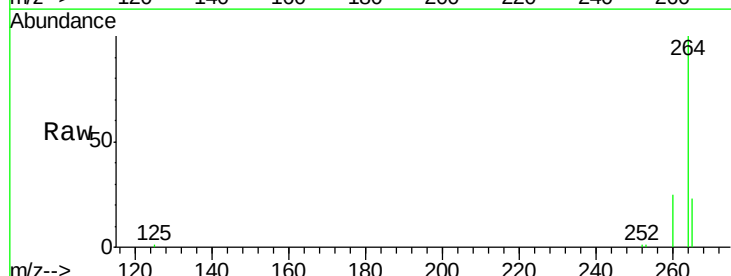
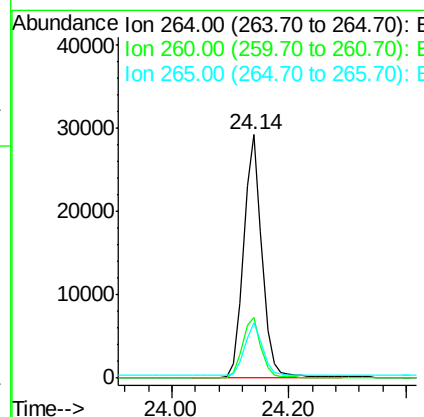
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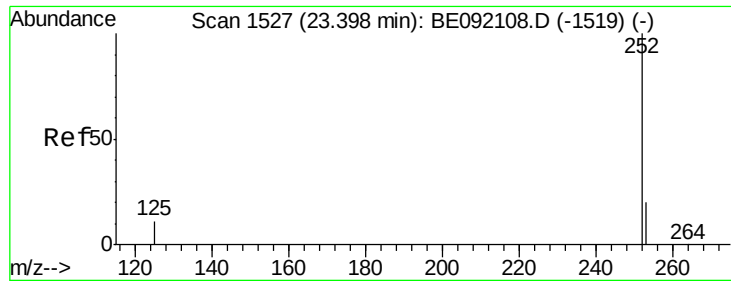
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092178.D
 Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	62561		
260	24.6	20.8	31.2	
265	22.5	16.6	25.0	





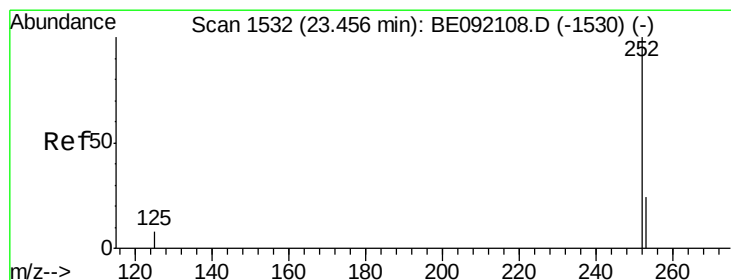
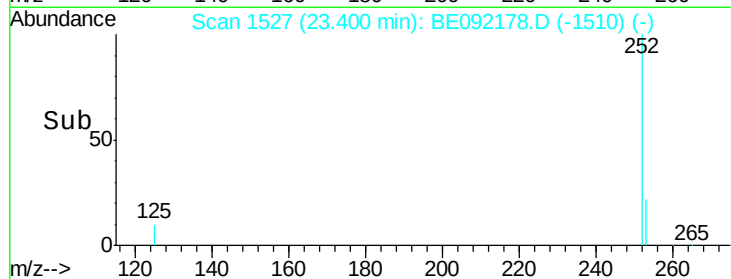
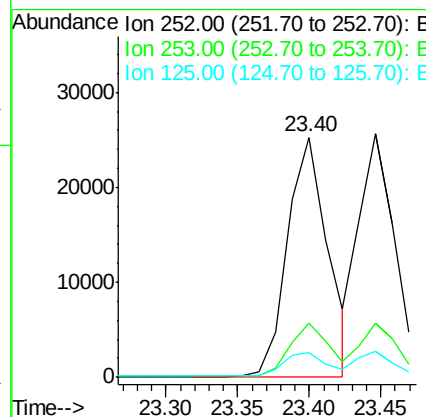
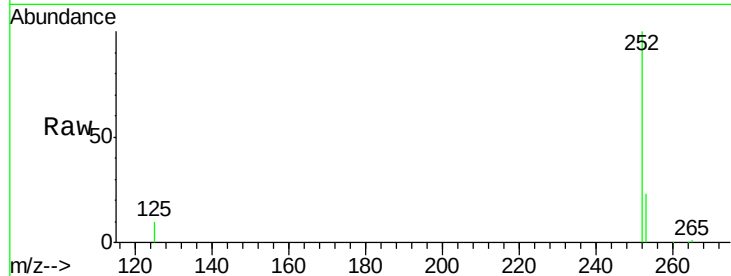
#29
Benzo(b)fluoranthene
Concen: 2.85 ng
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Instrument :
BNA_E
ClientSampleId :
GW-34-7.0-15.0MSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.0
125	10.4	10.2	15.2

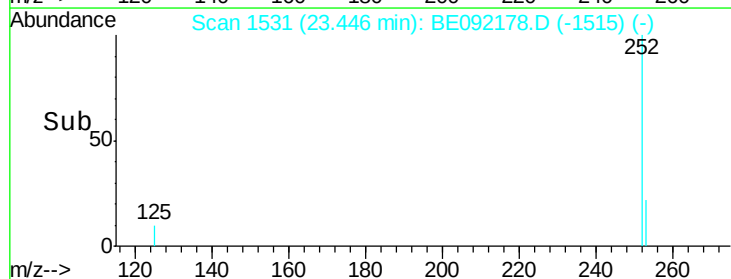
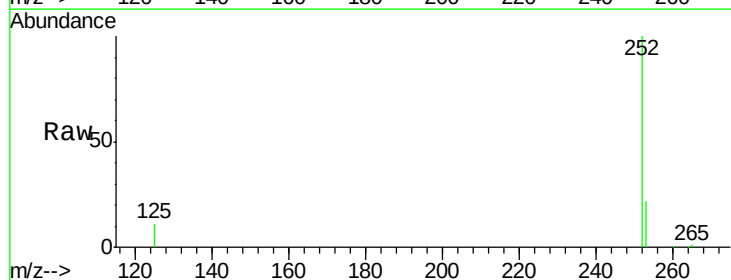
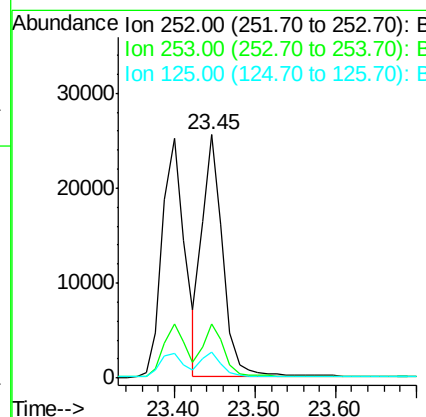
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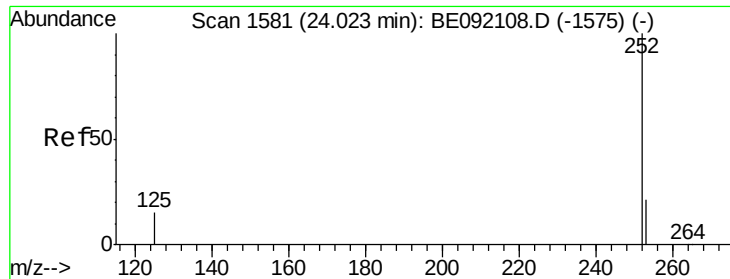
sohil
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#30
Benzo(k)fluoranthene
Concen: 2.78 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

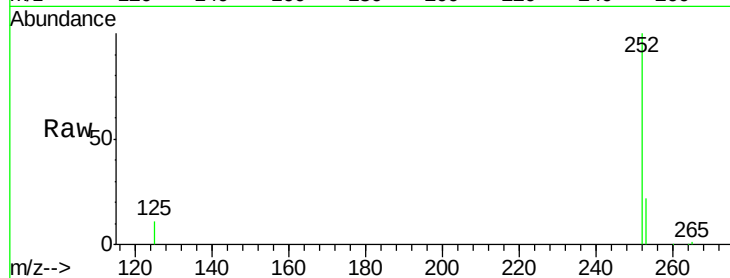
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.4	29.0
125	10.6	8.9	13.3





#31
Benzo(a)pyrene
Concen: 2.98 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

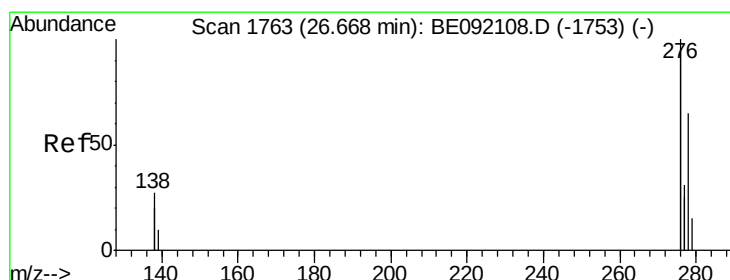
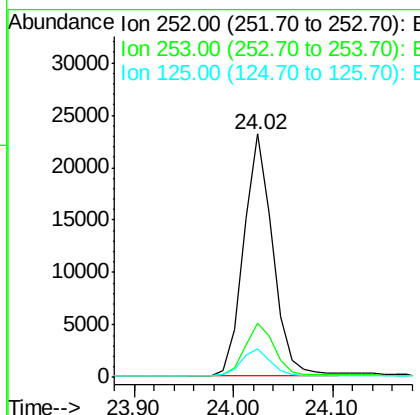
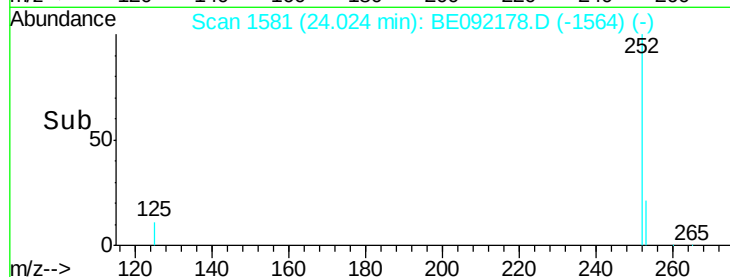
Instrument :
BNA_E
ClientSampleId :
GW-34-7.0-15.0MSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.8	29.8
125	11.5	10.4	15.6

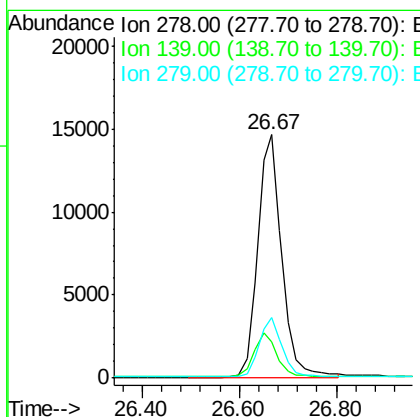
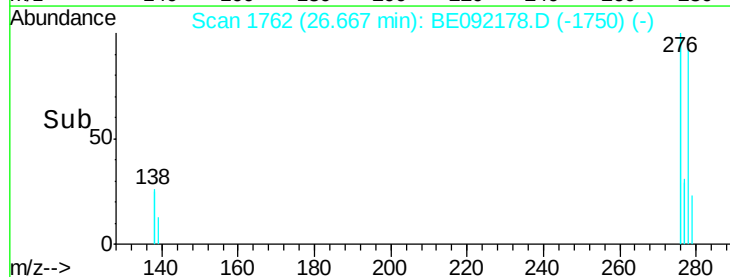
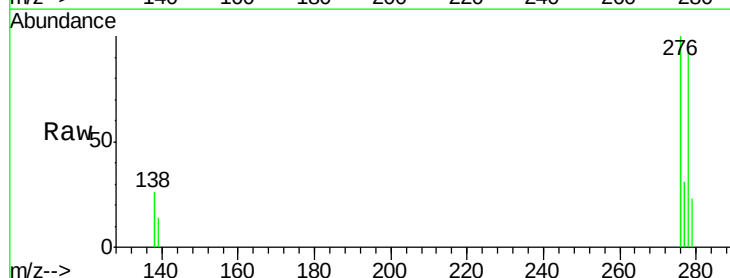
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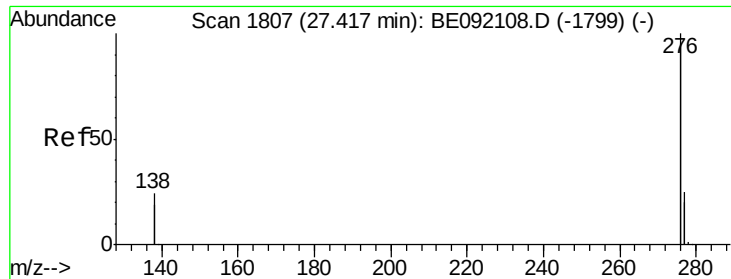
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#32
Dibenzo(a,h)anthracene
Concen: 3.35 ng
RT: 26.67 min Scan# 1762
Delta R.T. -0.00 min
Lab File: BE092178.D
Acq: 4 Aug 2016 12:11

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.7	16.7	25.1#
279	24.7	20.3	30.5





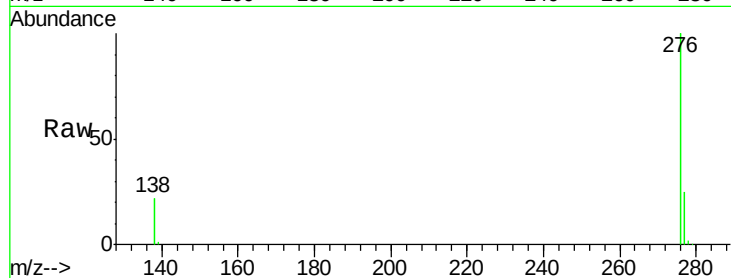
#33
 Benzo(g,h,i)perylene
 Concen: 3.33 ng
 RT: 27.42 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: BE092178.D
 Acq: 4 Aug 2016 12:11

Instrument :
 BNA_E
 ClientSampleId :
 GW-34-7.0-15.0MSD

Tgt	Ion	276	Resp	213114
Ion	Ratio	Lower	Upper	
276	100			
277	24.5	19.5	29.3	
138	21.6	20.8	31.2	

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Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

