

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE052516\
 Data File : BE091873.D
 Acq On : 26 May 2016 00:13
 Operator : UM/SJ
 Sample : H3156-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MSD

Quant Time: May 26 01:39:04 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE052516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 19:42:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	30955	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	160039	5.00	ng	0.00
15) Acenaphthene-d10	14.40	164	99399	5.00	ng	0.00
24) Phenanthrene-d10	17.13	188	271509	5.00	ng	-0.01
31) Chrysene-d12	21.29	240	278657	5.00	ng	0.00
40) Perylene-d12	23.72	264	248593	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	67922	7.68	ng	0.00
5) Phenol-d6	6.95	99	111103	9.58	ng	0.00
9) Nitrobenzene-d5	8.91	82	59238	4.56	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	38588	8.71	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	144317	4.88	ng	-0.02
34) Terphenyl-d14	19.74	244	218828	5.20	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.31	88	12430	3.21	ng	92
3) n-Nitrosodimethylamine	3.61	42	21388	3.77	ng	100
6) bis(2-Chloroethyl)ether	7.20	93	40672	4.19	ng	99
7) n-Nitroso-di-n-propylamine	8.57	70	38425	4.28	ng	# 91
10) Nitrobenzene	8.96	77	54154	4.30	ng	# 100
11) bis(2-Chloroethoxy)methane	9.96	93	66611	4.39	ng	# 13
12) Naphthalene	10.61	128	143227	4.14	ng	97
13) Hexachlorobutadiene	10.90	225	21192	3.98	ng	99
14) 2-Methylnaphthalene	12.22	142	106652	4.62	ng	# 90
18) Acenaphthylene	14.10	152	205996	4.71	ng	# 91
19) 2,6-Dinitrotoluene	13.96	165	33621	4.96	ng	# 84
20) Acenaphthene	14.44	154	117037	4.98	ng	97
21) 2,4-Dinitrotoluene	14.76	165	40618	4.33	ng	# 1
22) Fluorene	15.44	166	151144	4.33	ng	100
23) 4-Chlorophenyl-phenylether	15.42	204	67791	4.51	ng	97
25) 4-Bromophenyl-phenylether	16.32	248	43727	4.51	ng	96
26) Hexachlorobenzene	16.44	284	41703	4.51	ng	98
27) Pentachlorophenol	16.78	266	45920	12.87	ng	91
28) Phenanthrene	17.17	178	384675	7.61	ng	99
29) Anthracene	17.25	178	264233	4.87	ng	99
30) Fluoranthene	19.17	202	745524	12.51	ng	100
32) Benzidine	19.36	184	2232	0.20	ng	# 1
33) Pyrene	19.53	202	722542	12.22	ng	96
35) Benzo(a)anthracene	21.27	228	1093105	14.72	ng	99
36) 3,3'-Dichlorobenzidine	21.22	252	42772	1.05	ng	# 90
37) Chrysene	21.27	228	1093319	20.90	ng	91
38) Bis(2-ethylhexyl)phthalate	21.17	149	160872	5.97	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.26	276	530556	7.62	ng	97
41) Benzo(b)fluoranthene	22.97	252	716510	10.68	ng	97
42) Benzo(k)fluoranthene	22.97	252	716510	11.77	ng	98
43) Benzo(a)pyrene	23.60	252	513112	8.44	ng	96
44) Dibenzo(a,h)anthracene	26.28	278	299333	5.14	ng	98
45) Benzo(g,h,i)perylene	27.05	276	481120	8.14	ng	99

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QLast Update : Wed May 25 19:42:30 2016
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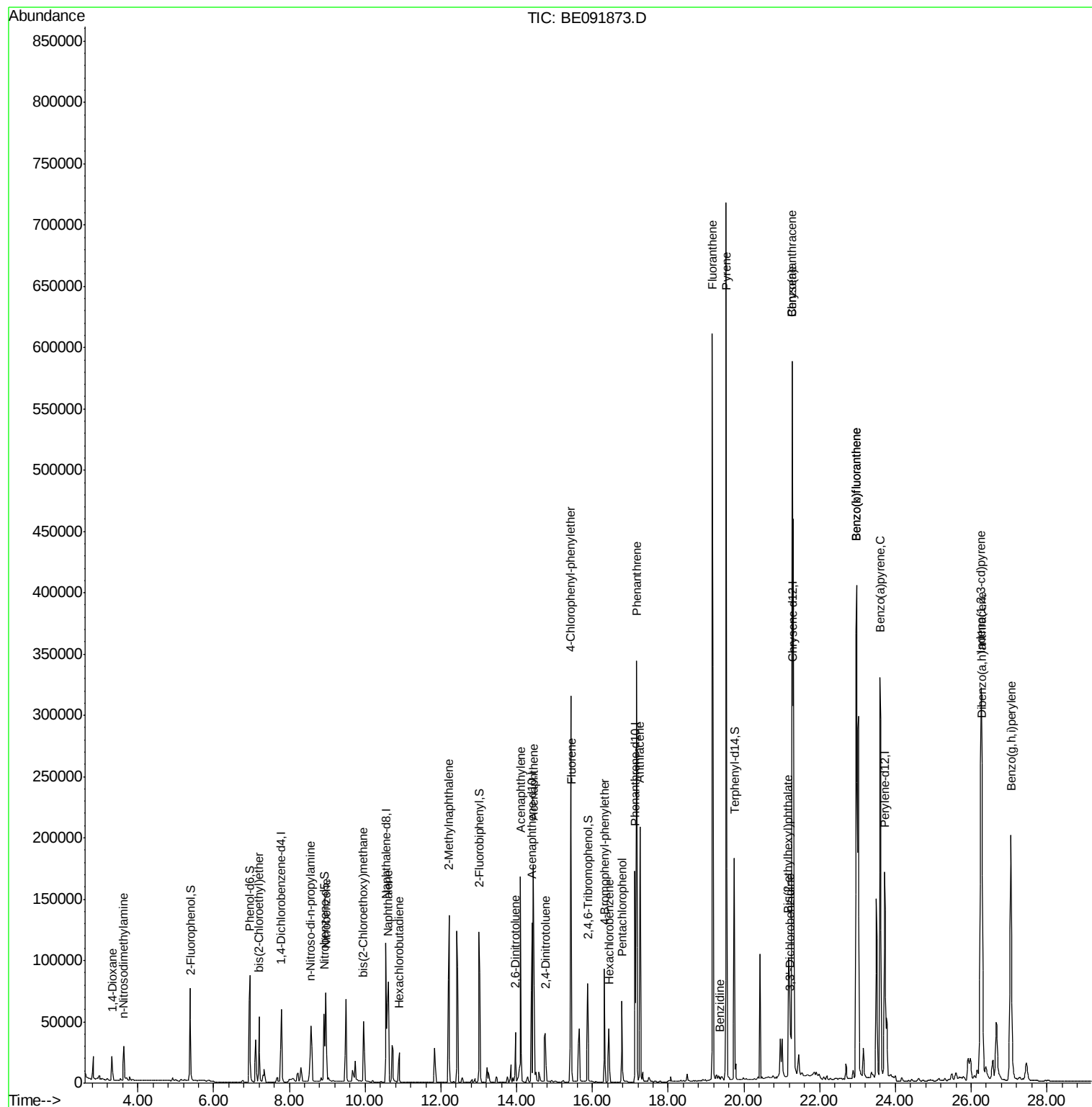
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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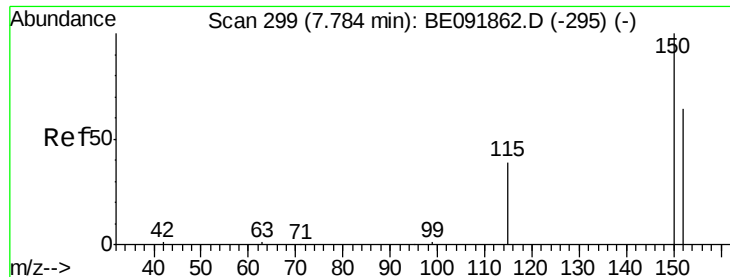
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.79 min Scan# 299

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

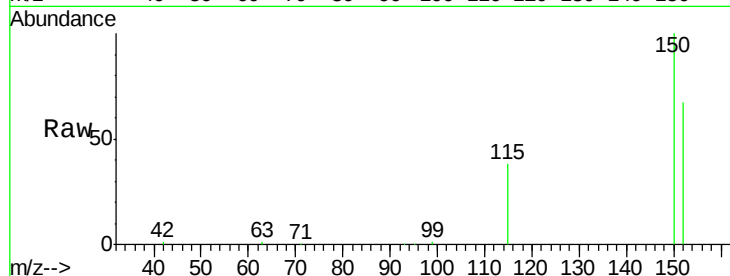
Tgt Ion:152 Resp: 30955

Ion Ratio Lower Upper

152 100

150 149.5 123.9 185.9

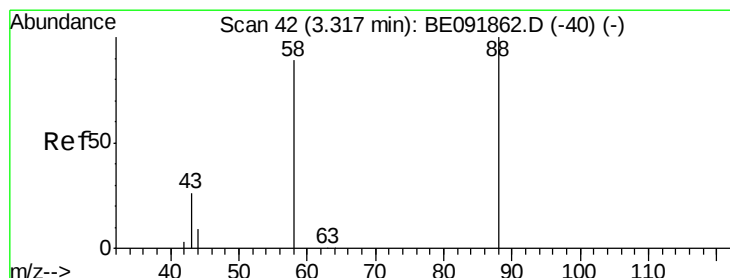
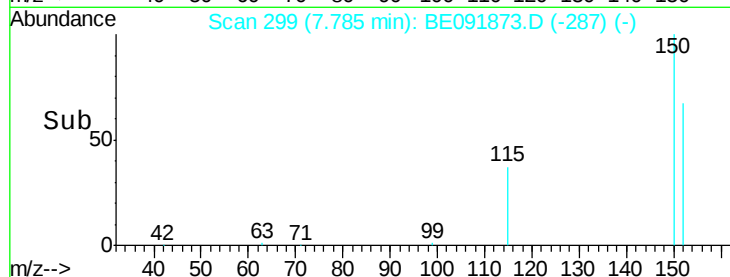
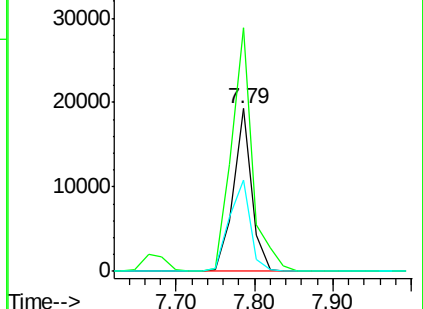
115 56.4 48.3 72.5



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: 3.21 ng

RT: 3.31 min Scan# 42

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

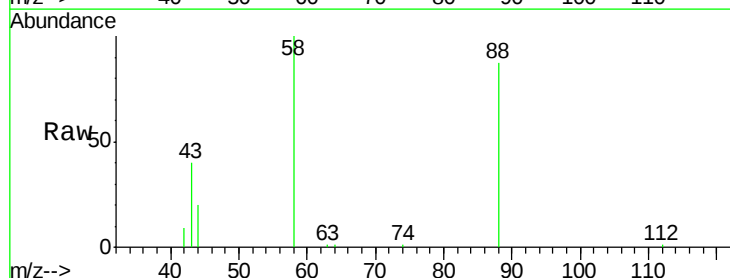
Tgt Ion: 88 Resp: 12430

Ion Ratio Lower Upper

88 100

58 88.2 63.0 94.4

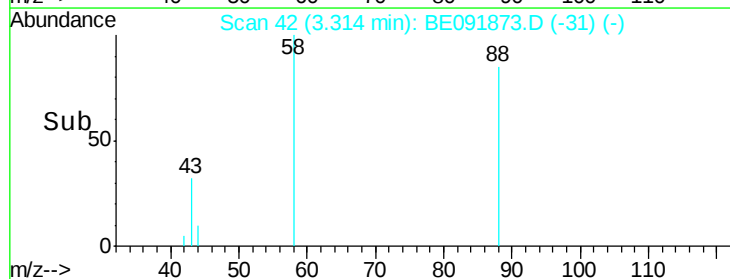
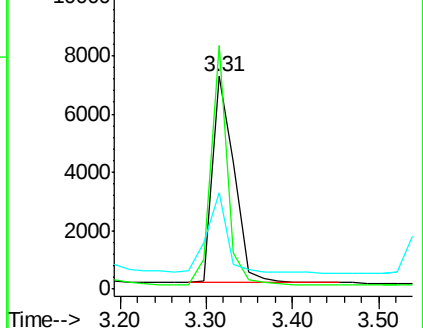
43 37.6 29.1 43.7

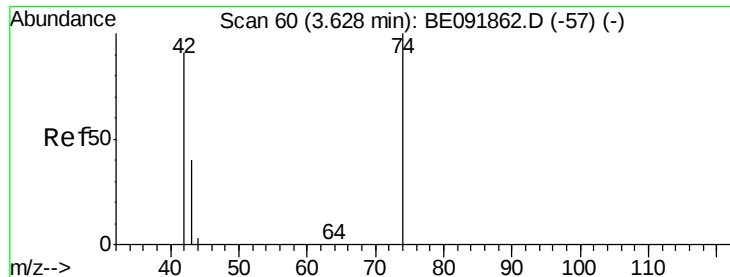


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.77 ng

RT: 3.61 min Scan# 59

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

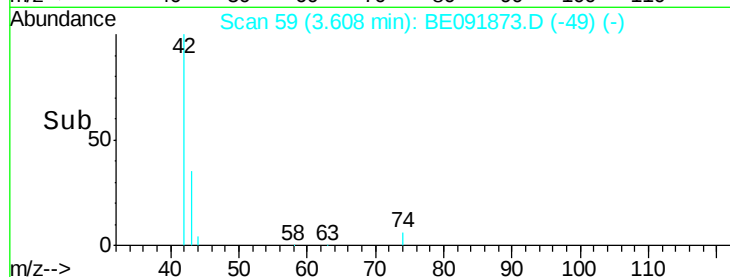
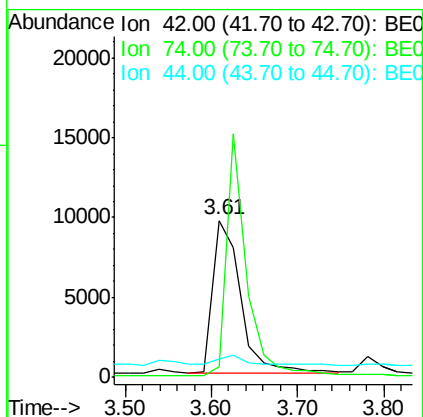
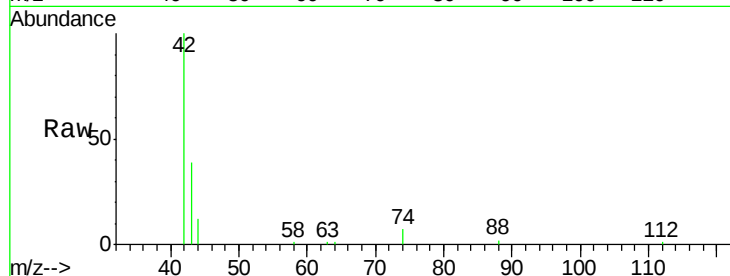
Tgt Ion: 42 Resp: 21388

Ion Ratio Lower Upper

42 100

74 116.4 93.4 140.0

44 6.4 5.0 7.6



#4

2-Fluorophenol

Concen: 7.68 ng

RT: 5.39 min Scan# 162

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

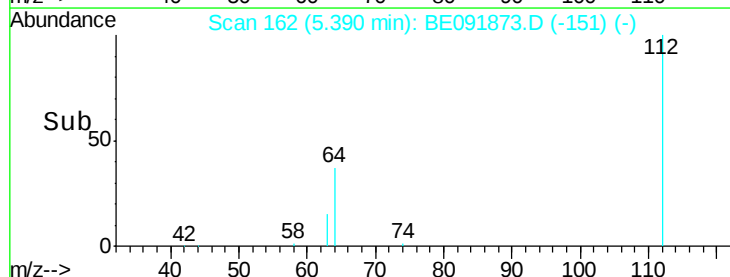
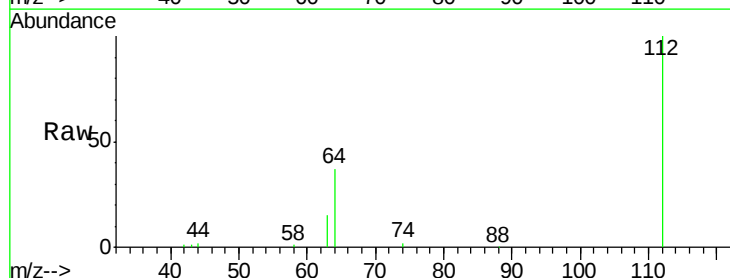
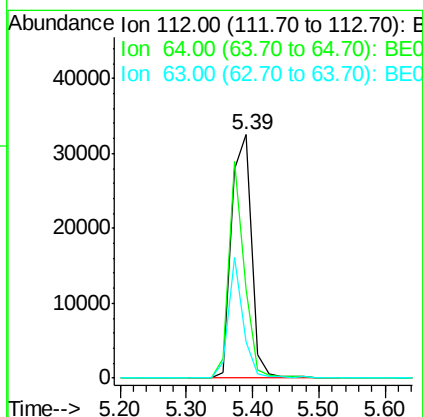
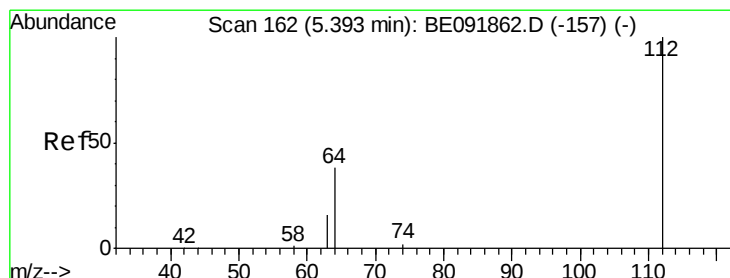
Tgt Ion: 112 Resp: 67922

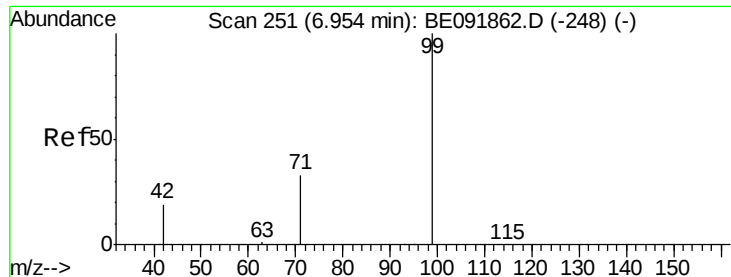
Ion Ratio Lower Upper

112 100

64 68.7 53.7 80.5

63 36.6 29.5 44.3





#5

Phenol-d6

Concen: 9.58 ng

RT: 6.95 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

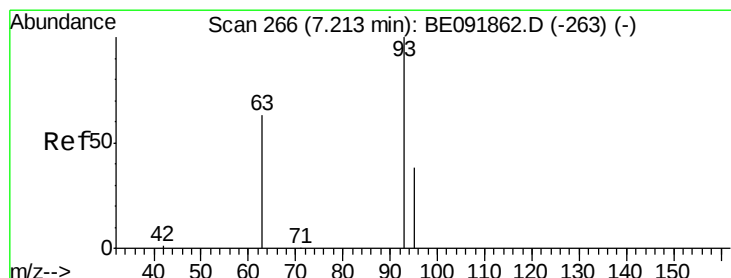
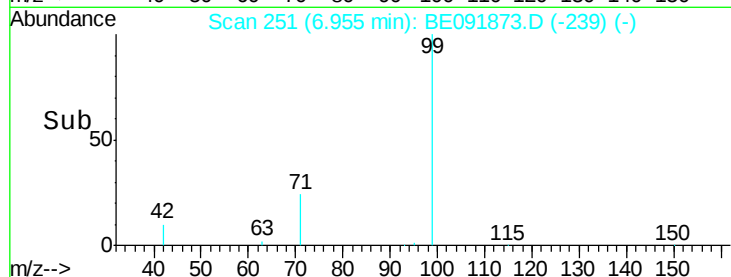
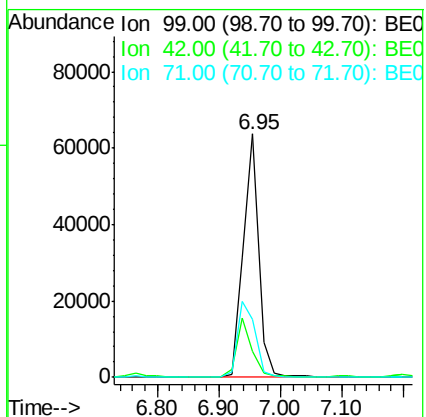
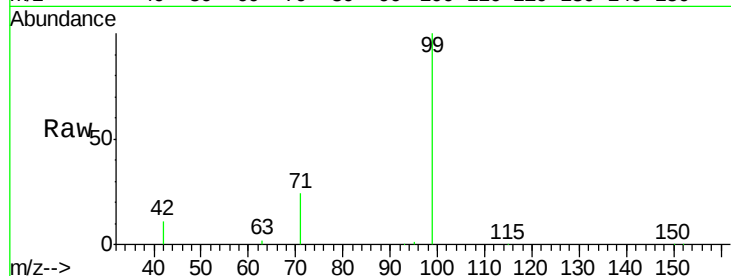
Tgt Ion: 99 Resp: 111103

Ion Ratio Lower Upper

99 100

42 23.7 19.6 29.4

71 35.6 28.1 42.1



#6

bis(2-Chloroethyl)ether

Concen: 4.19 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

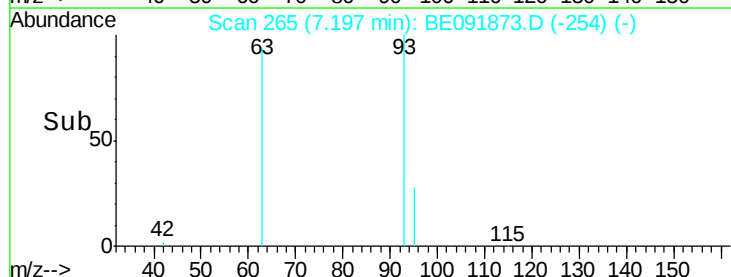
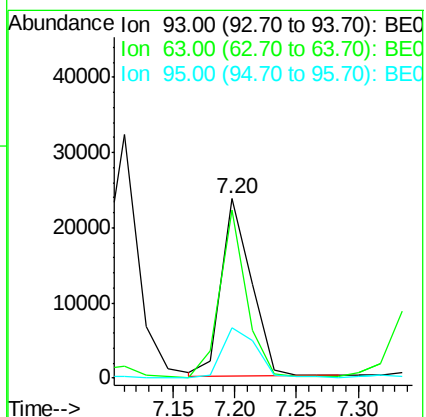
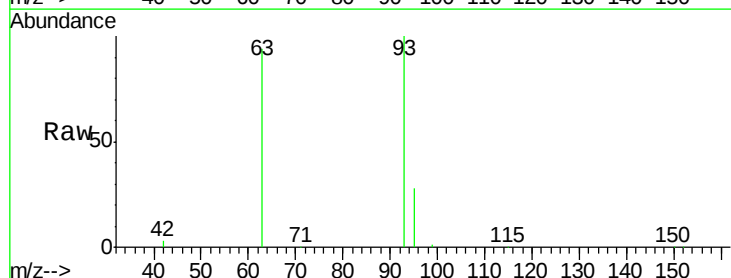
Tgt Ion: 93 Resp: 40672

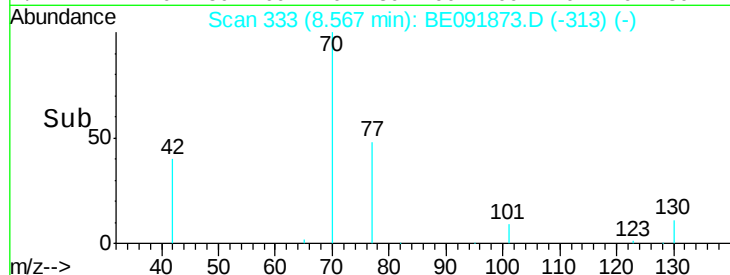
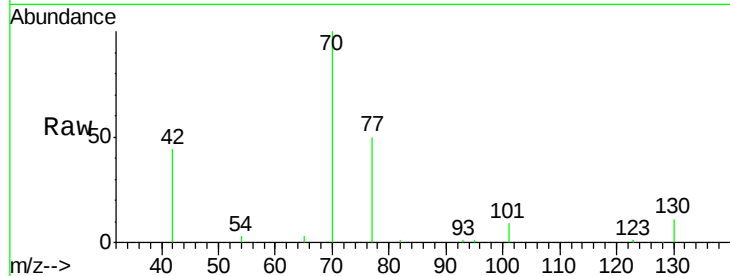
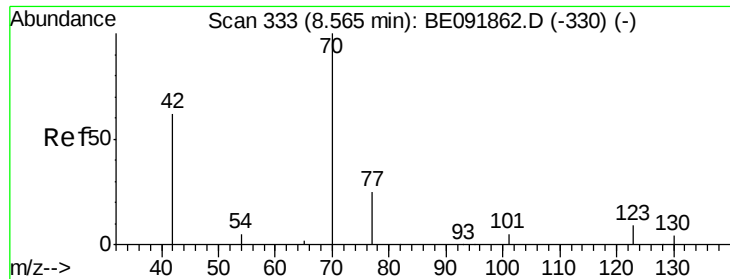
Ion Ratio Lower Upper

93 100

63 83.2 66.2 99.4

95 31.4 25.5 38.3





#7

n-Nitroso-di-n-propylamine

Concen: 4.28 ng

RT: 8.57 min Scan# 333

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

Tgt Ion: 70 Resp: 38425

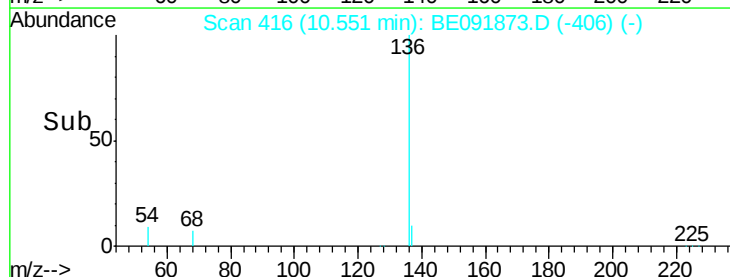
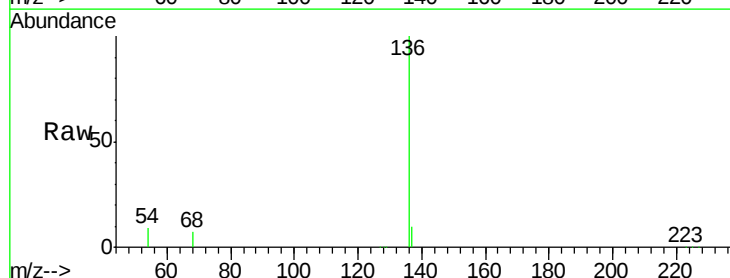
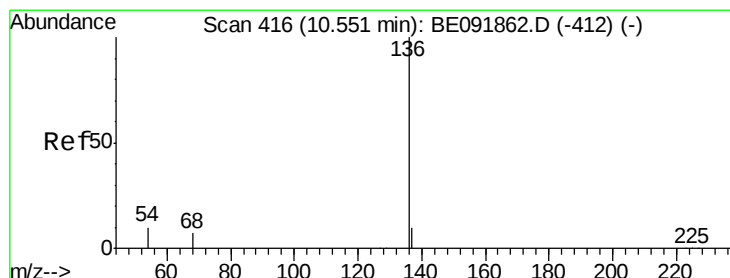
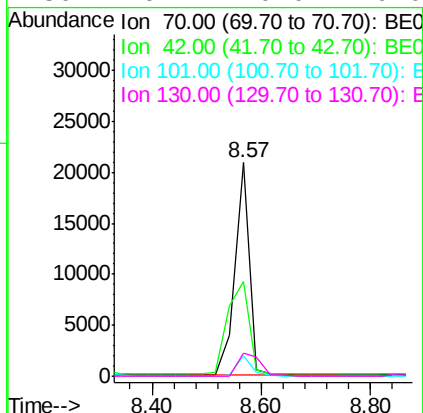
Ion Ratio Lower Upper

70 100

42 64.6 58.4 87.6

101 8.9 6.4 9.6

130 16.1 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Tgt Ion: 136 Resp: 160039

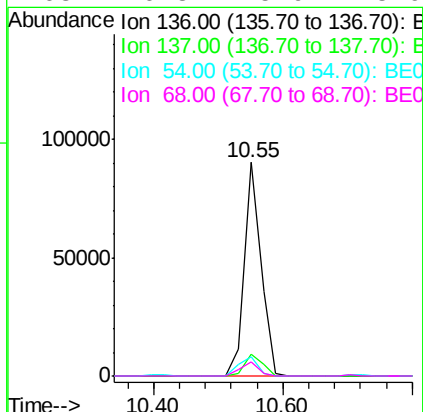
Ion Ratio Lower Upper

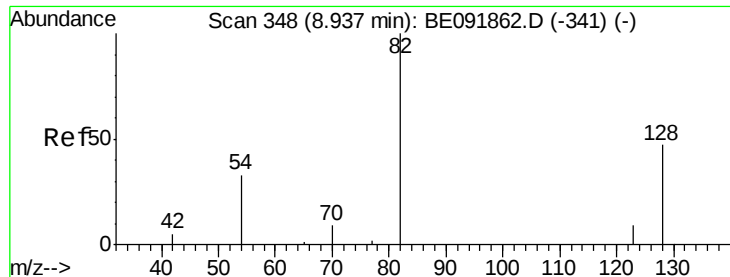
136 100

137 10.4 8.3 12.5

54 9.0 8.2 12.4

68 6.8 5.9 8.9





#9

Nitrobenzene-d5

Concen: 4.56 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

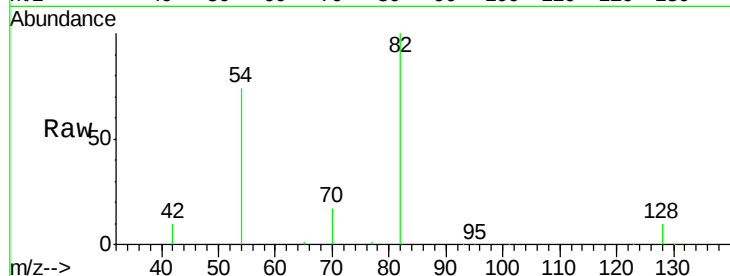
Tgt Ion: 82 Resp: 59238

Ion Ratio Lower Upper

82 100

128 9.9 39.5 59.3#

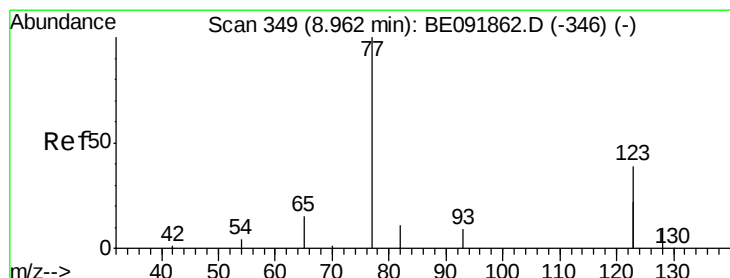
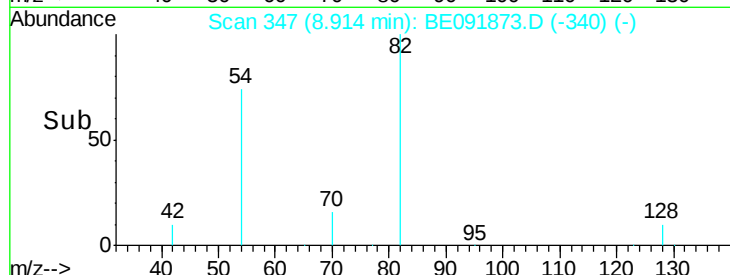
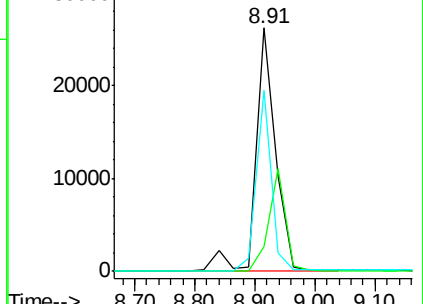
54 74.4 30.3 45.5#



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



#10

Nitrobenzene

Concen: 4.30 ng

RT: 8.96 min Scan# 349

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

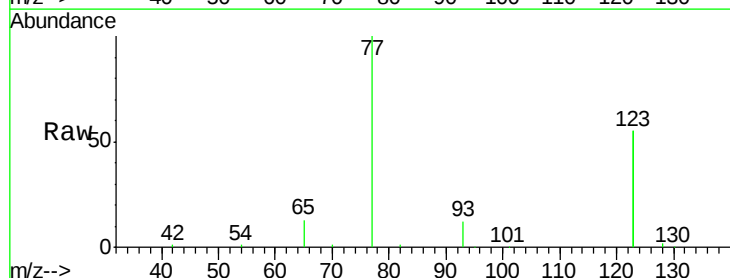
Tgt Ion: 77 Resp: 54154

Ion Ratio Lower Upper

77 100

123 146.4 0.0 0.0#

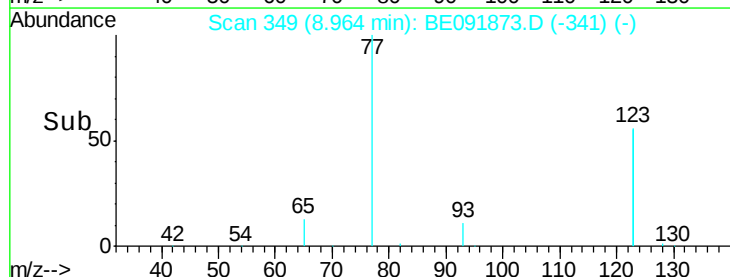
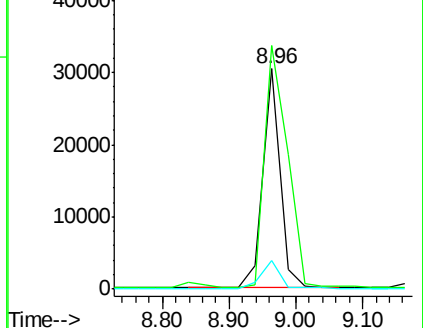
65 13.9 11.1 16.7

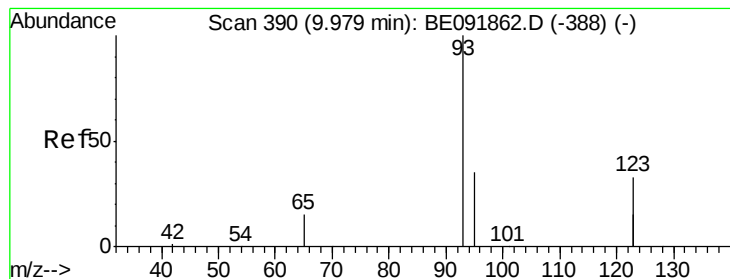


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#11

bis(2-Chloroethoxy)methane

Concen: 4.39 ng

RT: 9.96 min Scan# 389

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

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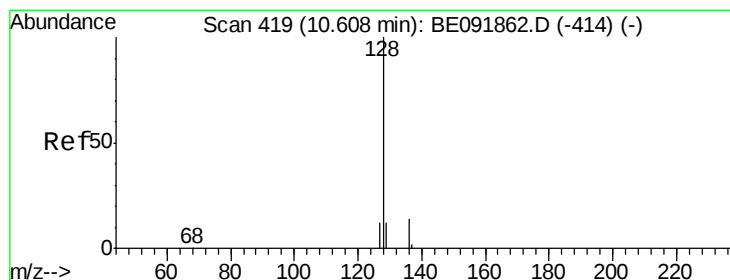
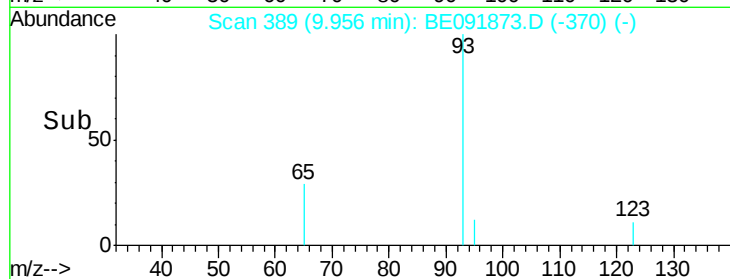
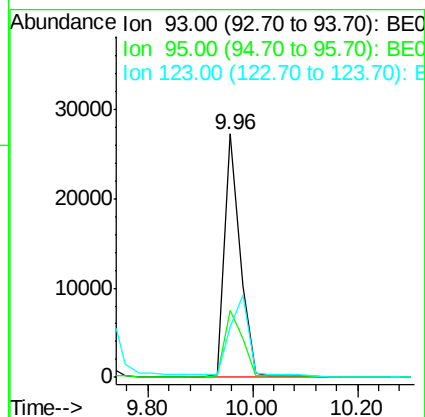
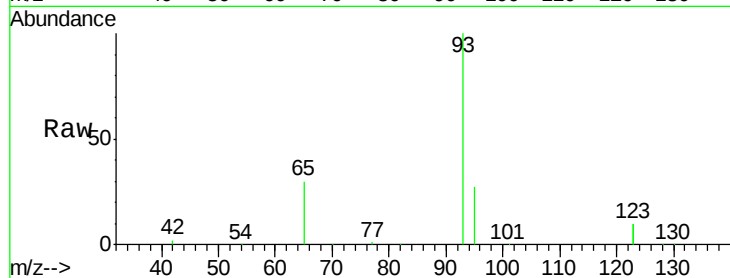
Tgt Ion: 93 Resp: 66611

Ion Ratio Lower Upper

93 100

95 32.7 57.6 86.4#

123 0.0 100.2 150.4#



#12

Naphthalene

Concen: 4.14 ng

RT: 10.61 min Scan# 419

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

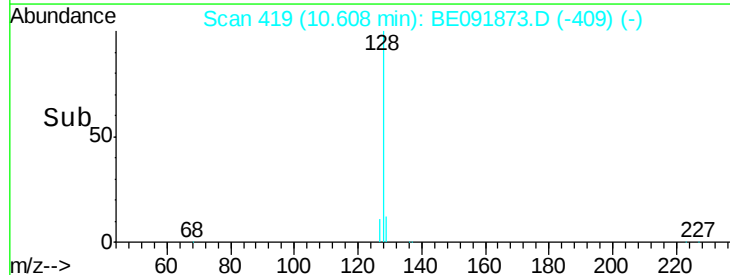
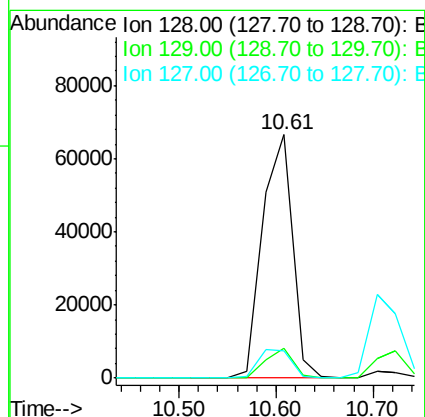
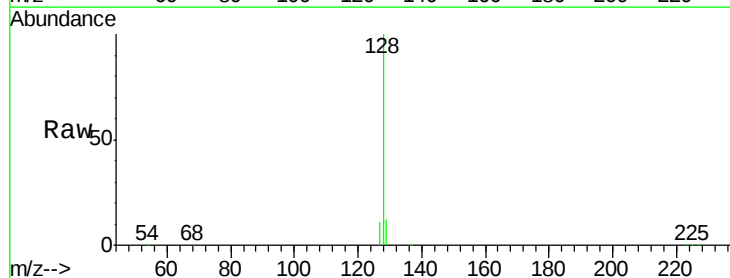
Tgt Ion: 128 Resp: 143227

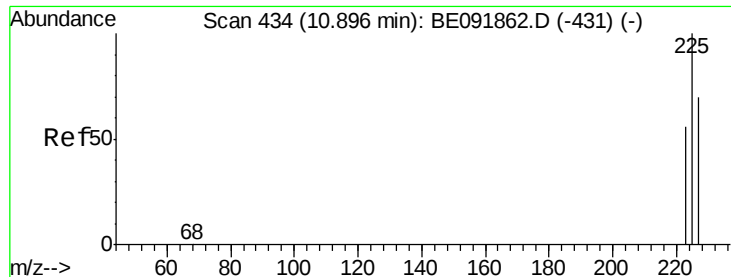
Ion Ratio Lower Upper

128 100

129 12.2 10.4 15.6

127 11.4 10.2 15.2

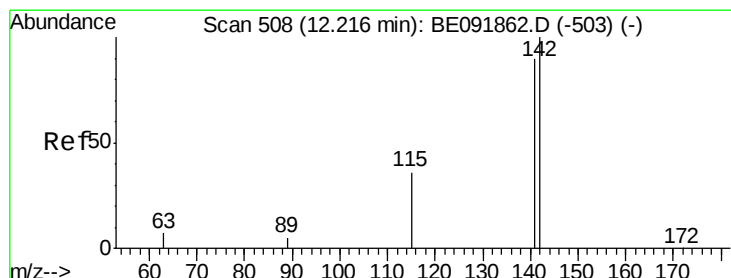
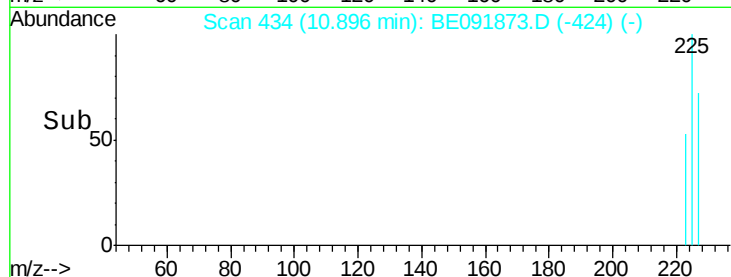
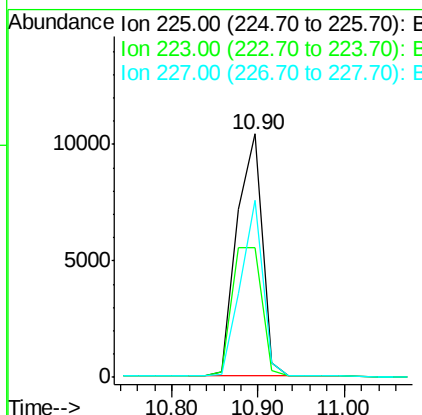
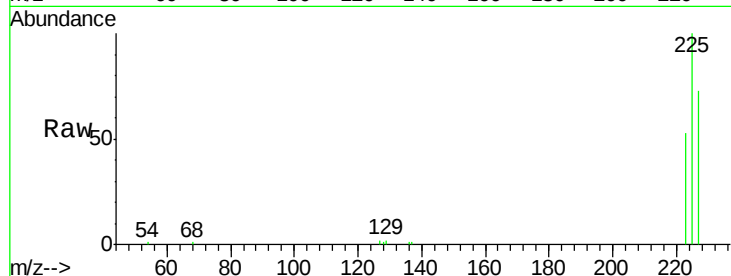




#13
Hexachlorobutadiene
Concen: 3.98 ng
RT: 10.90 min Scan# 434
Delta R.T. -0.00 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

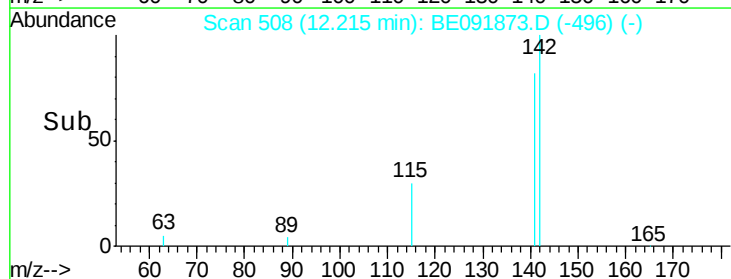
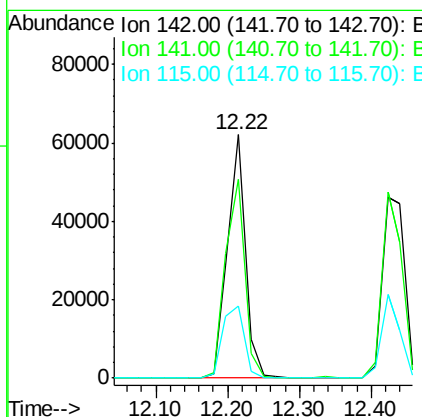
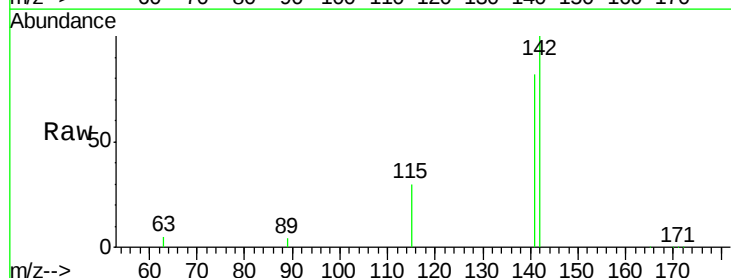
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

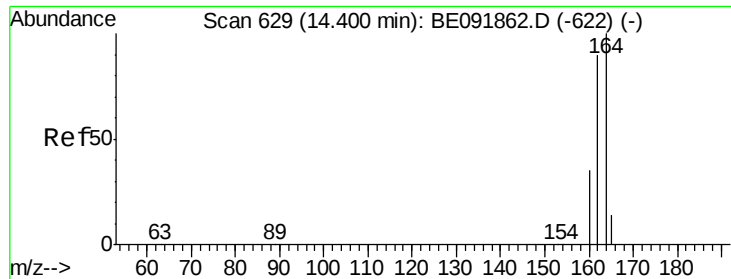
Tgt Ion: 225 Resp: 21192
Ion Ratio Lower Upper
225 100
223 62.7 49.8 74.8
227 63.9 50.6 75.8



#14
2-Methylnaphthalene
Concen: 4.62 ng
RT: 12.22 min Scan# 508
Delta R.T. -0.00 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

Tgt Ion: 142 Resp: 106652
Ion Ratio Lower Upper
142 100
141 81.7 71.9 107.9
115 29.8 29.9 44.9#

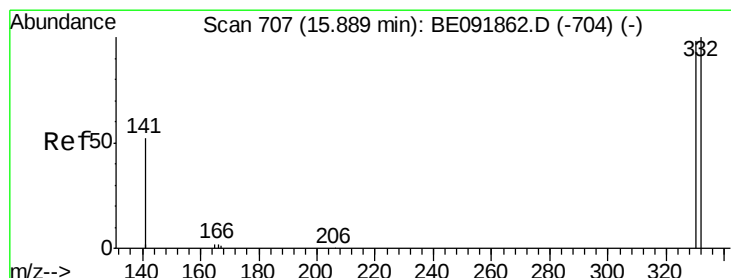
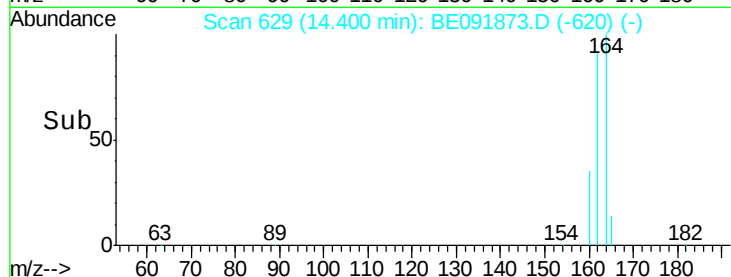
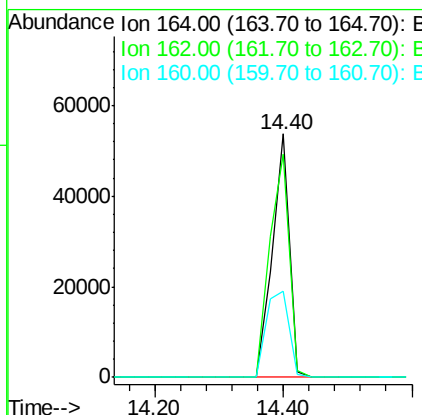
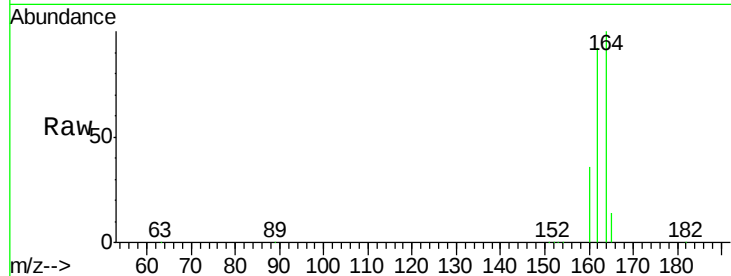




#15
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 629
Delta R.T. -0.00 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

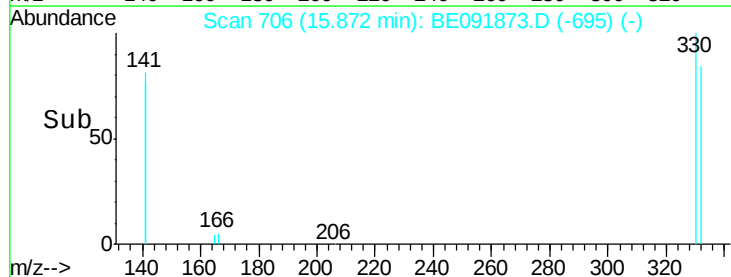
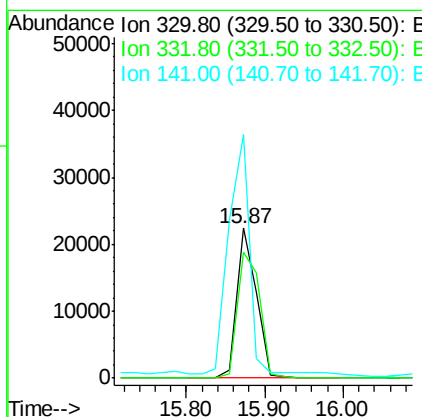
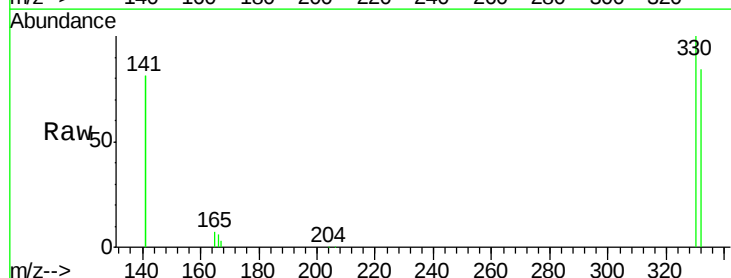
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

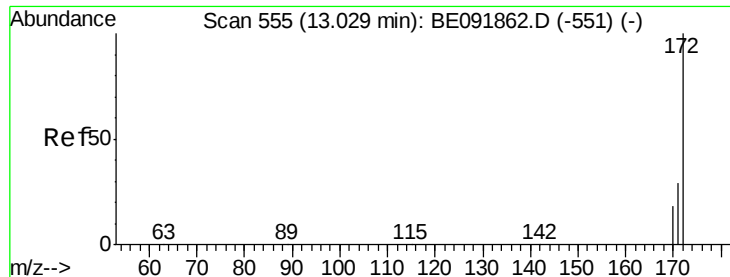
Tgt Ion:164 Resp: 99399
Ion Ratio Lower Upper
164 100
162 91.8 71.8 107.8
160 35.6 28.0 42.0



#16
2,4,6-Tribromophenol
Concen: 8.71 ng
RT: 15.87 min Scan# 706
Delta R.T. -0.02 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

Tgt Ion:330 Resp: 38588
Ion Ratio Lower Upper
330 100
332 96.9 77.0 115.6
141 168.5 138.4 207.6

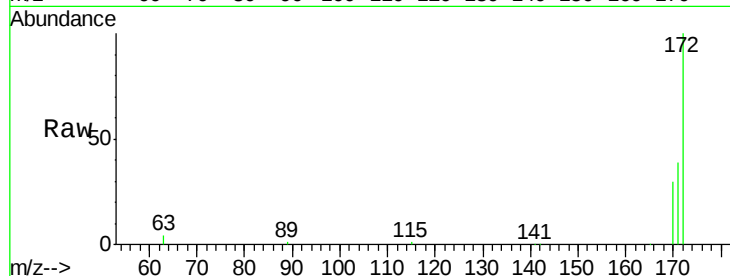




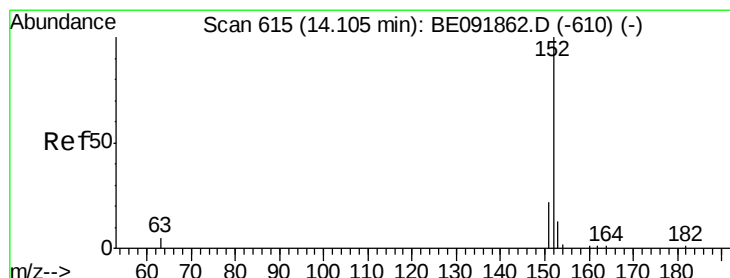
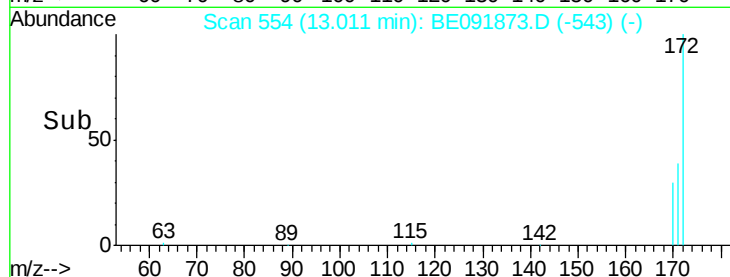
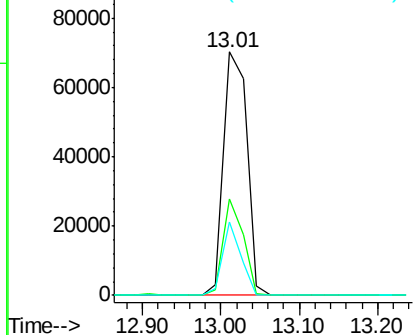
#17
2-Fluorobiphenyl
Concen: 4.88 ng
RT: 13.01 min Scan# 554
Delta R.T. -0.02 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

Tgt Ion:172 Resp: 144317
Ion Ratio Lower Upper
172 100
171 39.4 24.3 36.5#
170 29.9 14.9 22.3#

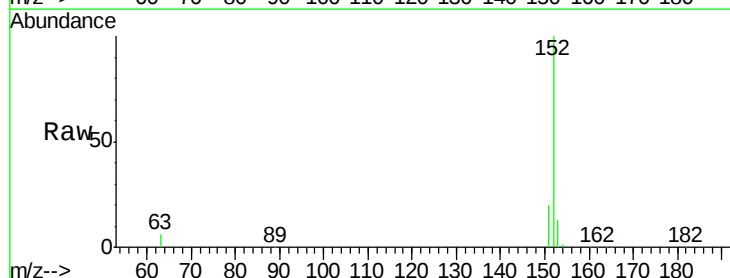


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

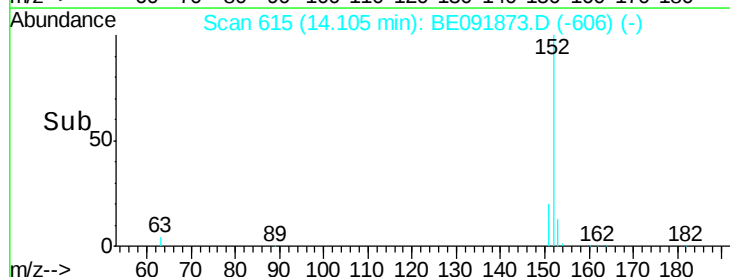
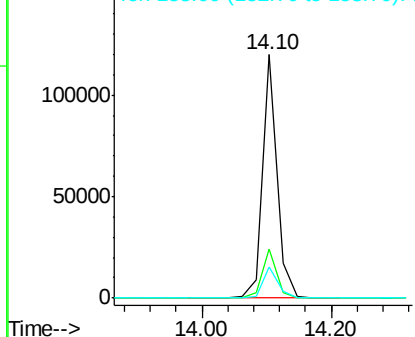


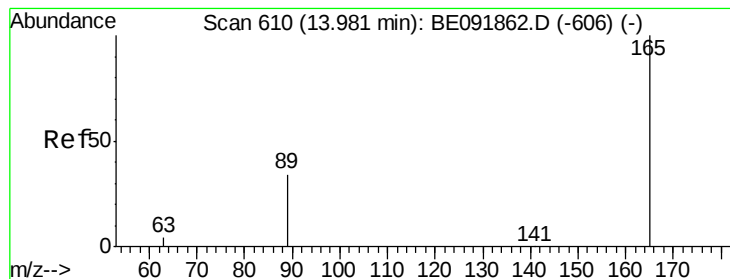
#18
Acenaphthylene
Concen: 4.71 ng
RT: 14.10 min Scan# 615
Delta R.T. 0.00 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

Tgt Ion:152 Resp: 205996
Ion Ratio Lower Upper
152 100
151 20.3 19.4 29.2
153 13.4 14.4 21.6#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#19

2,6-Dinitrotoluene

Concen: 4.96 ng

RT: 13.96 min Scan# 609

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

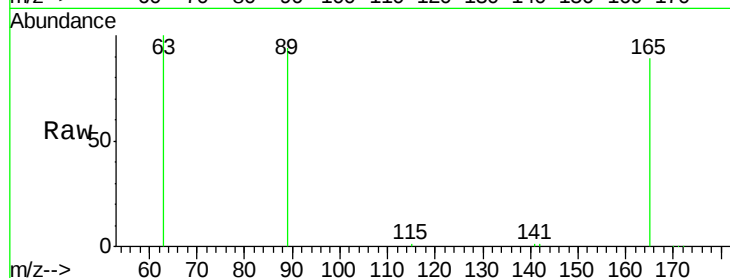
Tgt Ion:165 Resp: 33621

Ion Ratio Lower Upper

165 100

63 59.5 65.9 98.9#

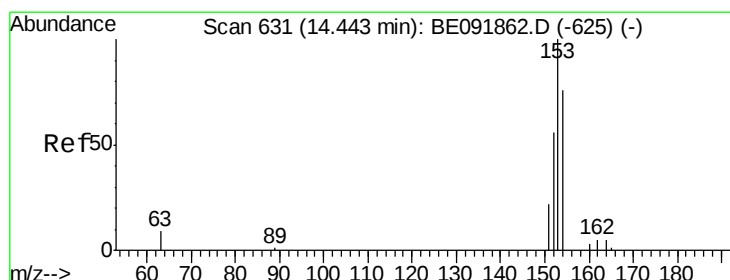
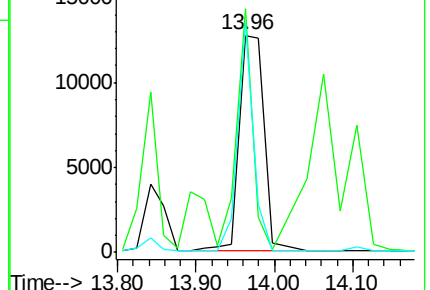
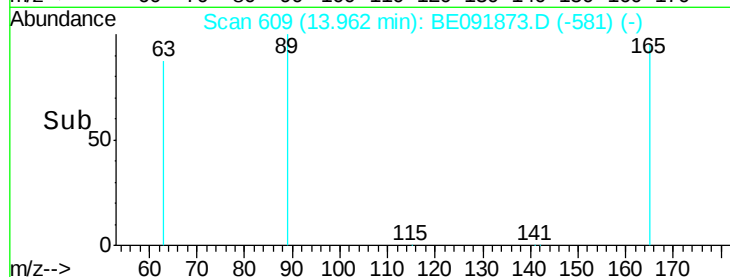
89 68.6 59.1 88.7



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0



#20

Acenaphthene

Concen: 4.98 ng

RT: 14.44 min Scan# 631

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

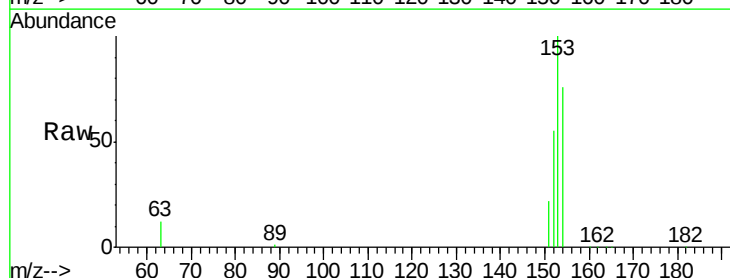
Tgt Ion:154 Resp: 117037

Ion Ratio Lower Upper

154 100

153 106.7 88.1 132.1

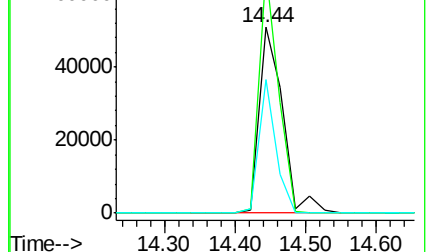
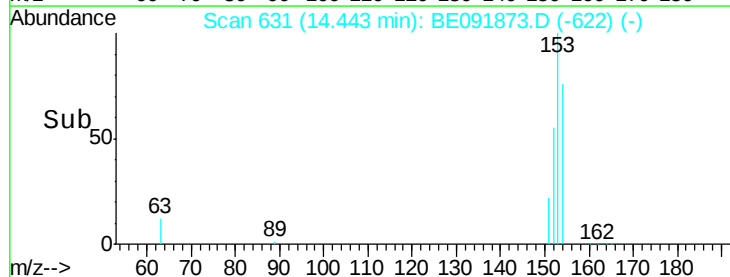
152 52.4 44.2 66.2

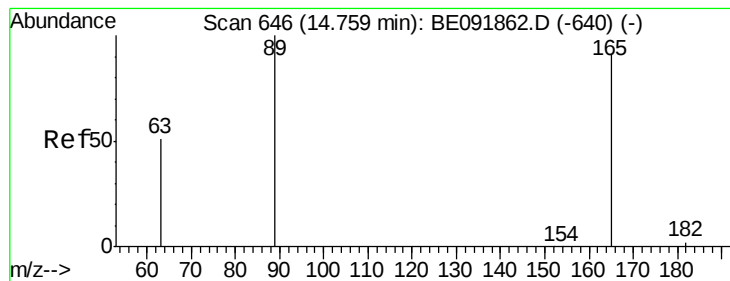


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#21

2,4-Dinitrotoluene

Concen: 4.33 ng

RT: 14.76 min Scan# 646

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

Tgt Ion:165 Resp: 40618

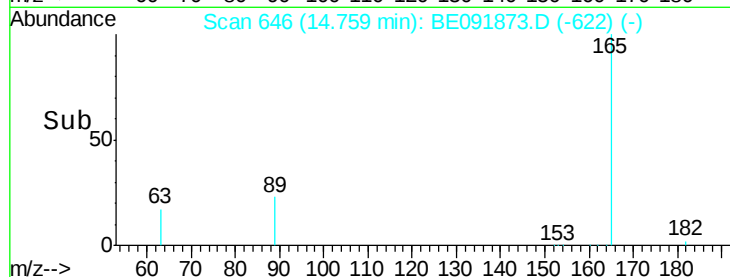
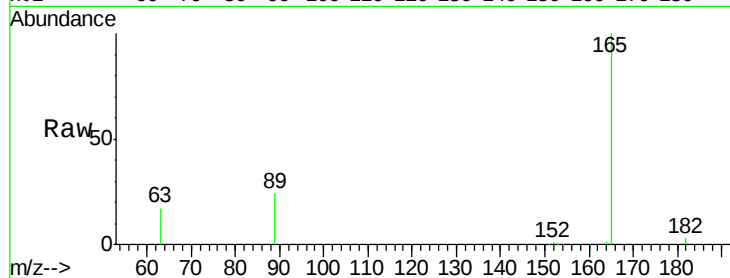
Ion Ratio Lower Upper

165 100

63 0.0 0.0 0.0

89 0.0 99.8 149.8#

182 2.4 0.0 0.0#

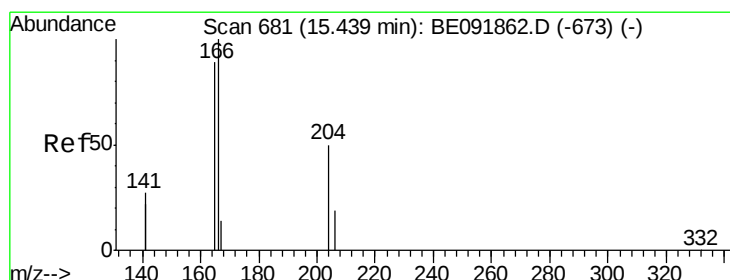
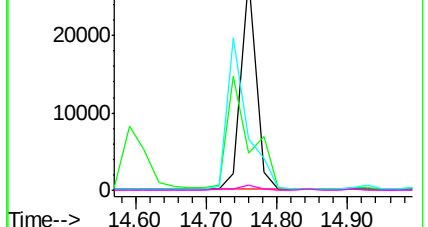


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

Ion 182.00 (181.70 to 182.70): E



#22

Fluorene

Concen: 4.33 ng

RT: 15.44 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

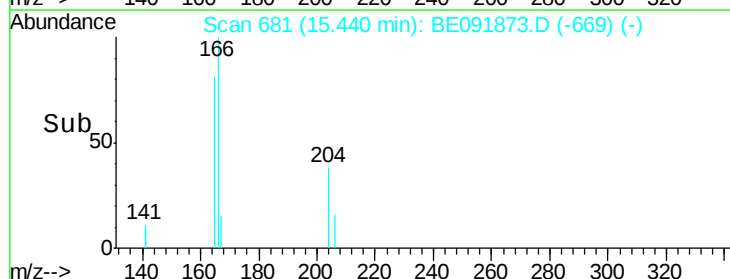
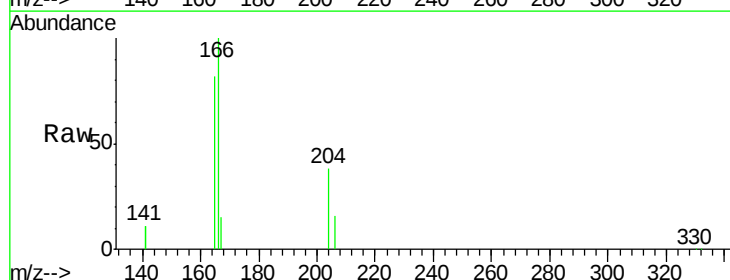
Tgt Ion:166 Resp: 151144

Ion Ratio Lower Upper

166 100

165 98.0 78.6 117.8

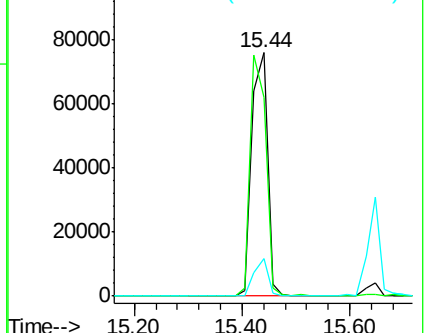
167 13.7 10.8 16.2

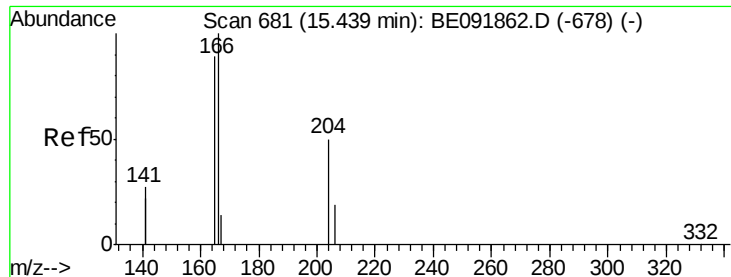


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

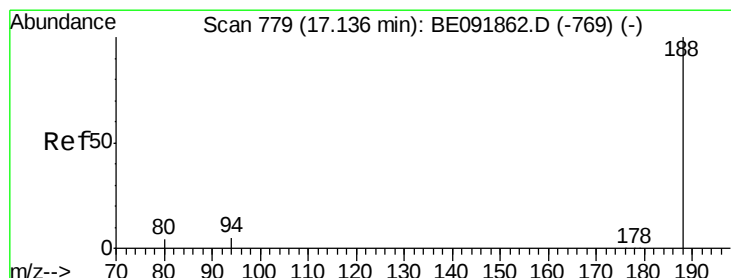
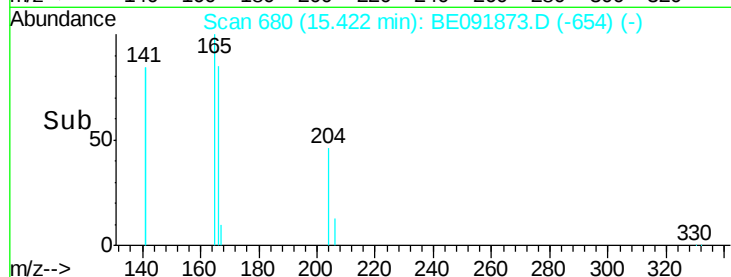
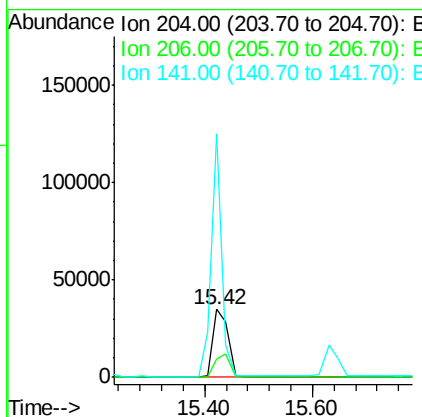
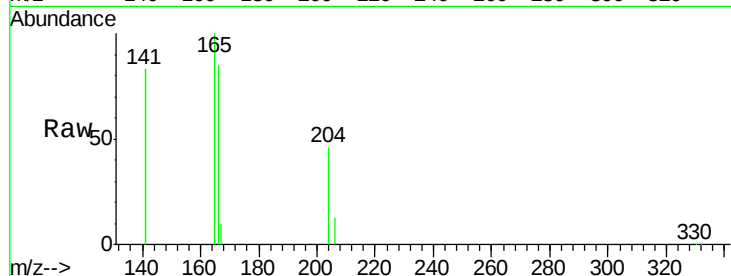




#23
4-Chlorophenyl-phenylether
Concen: 4.51 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.02 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

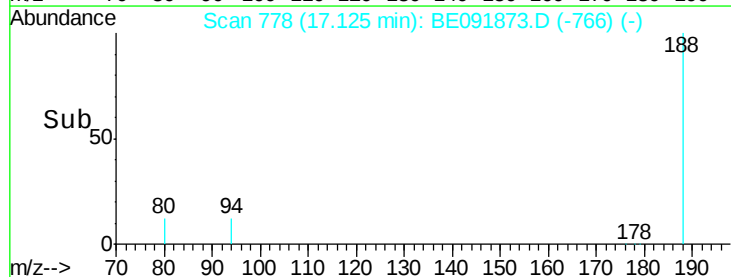
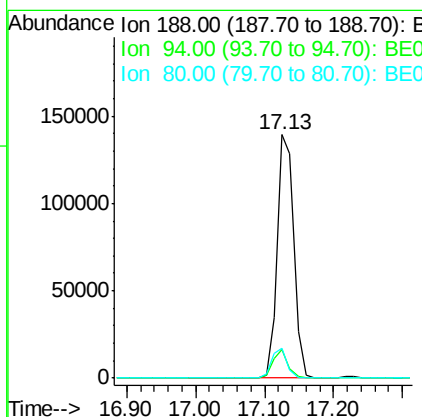
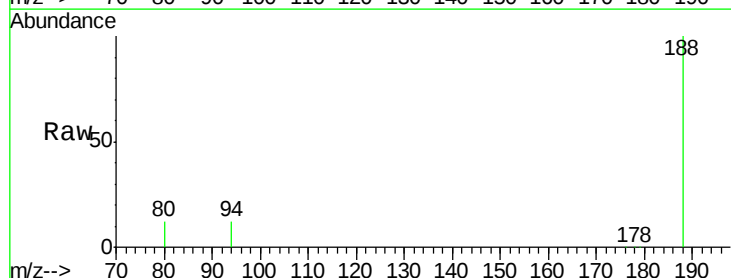
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

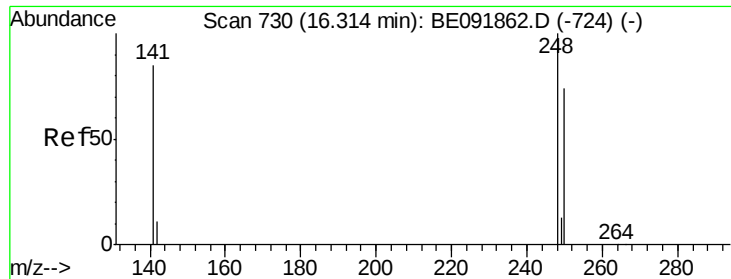
Tgt Ion: 204 Resp: 67791
Ion Ratio Lower Upper
204 100
206 34.3 27.8 41.6
141 252.3 197.6 296.4



#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.13 min Scan# 778
Delta R.T. -0.01 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

Tgt Ion: 188 Resp: 271509
Ion Ratio Lower Upper
188 100
94 11.9 4.1 6.1#
80 12.0 3.4 5.2#

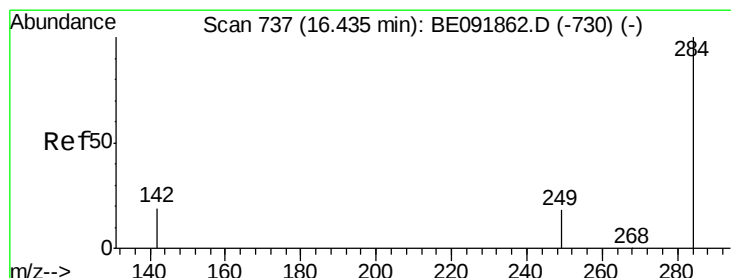
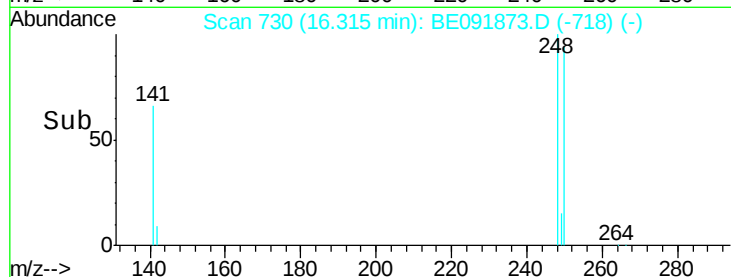
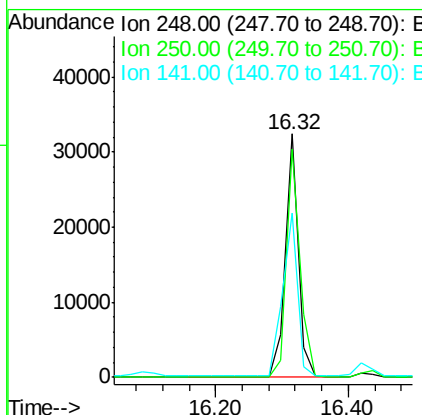
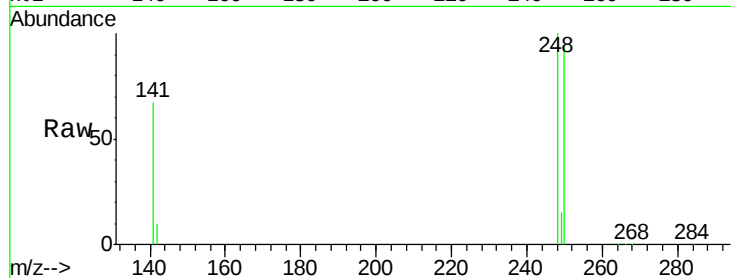




#25
4-Bromophenyl-phenylether
Concen: 4.51 ng
RT: 16.32 min Scan# 730
Delta R.T. 0.00 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

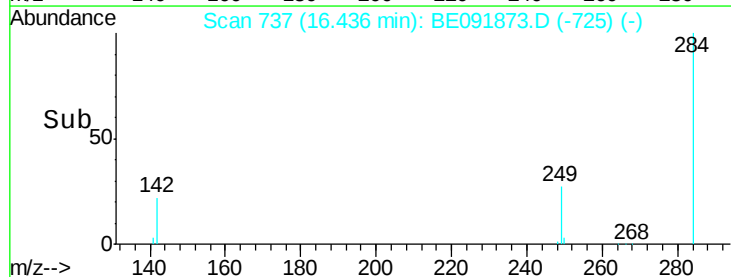
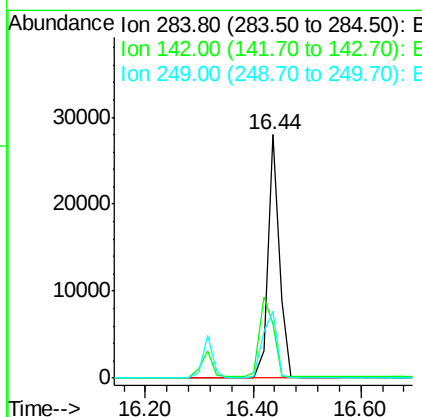
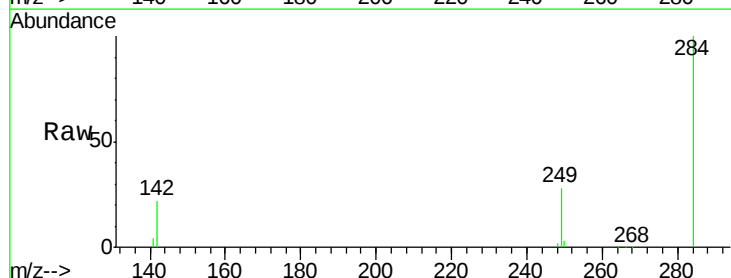
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

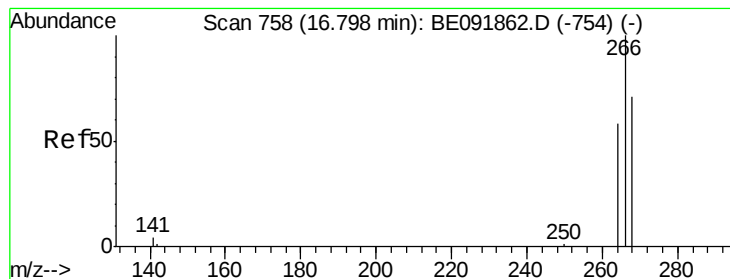
Tgt Ion:248 Resp: 43727
Ion Ratio Lower Upper
248 100
250 97.7 75.7 113.5
141 76.8 64.6 97.0



#26
Hexachlorobenzene
Concen: 4.51 ng
RT: 16.44 min Scan# 737
Delta R.T. 0.00 min
Lab File: BE091873.D
Acq: 26 May 2016 00:13

Tgt Ion:284 Resp: 41703
Ion Ratio Lower Upper
284 100
142 39.8 31.4 47.2
249 33.3 25.3 37.9





#27

Pentachlorophenol

Concen: 12.87 ng

RT: 16.78 min Scan# 757

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

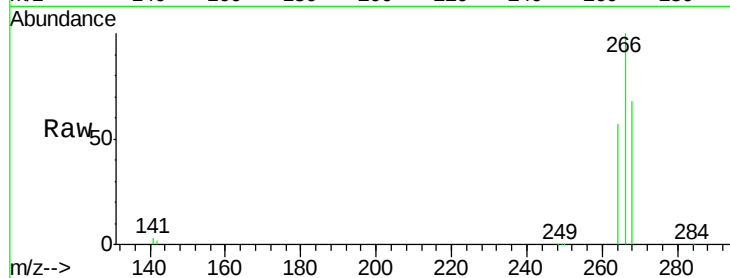
Tgt Ion:266 Resp: 45920

Ion Ratio Lower Upper

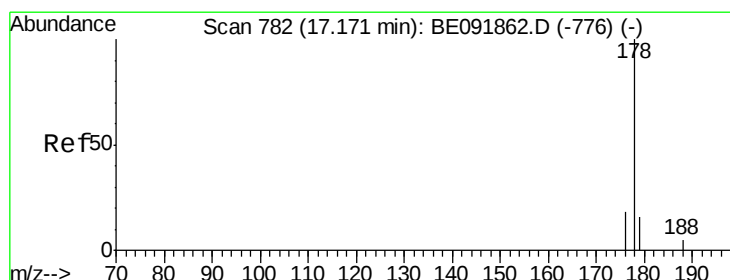
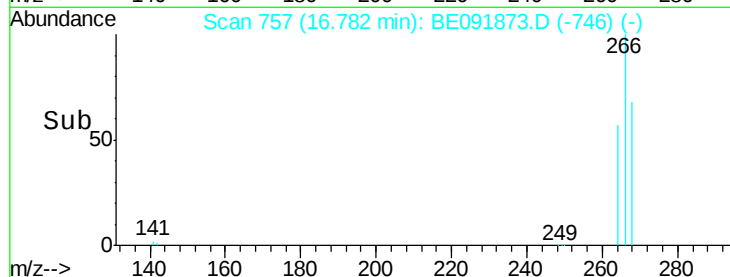
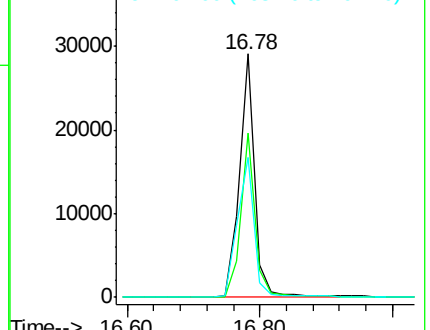
266 100

268 67.6 60.5 90.7

264 57.3 51.0 76.4



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



#28

Phenanthrene

Concen: 7.61 ng

RT: 17.17 min Scan# 782

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

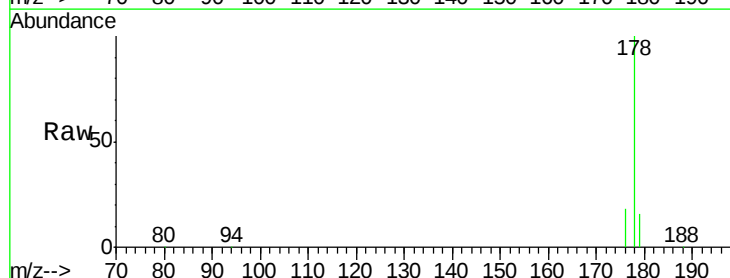
Tgt Ion:178 Resp: 384675

Ion Ratio Lower Upper

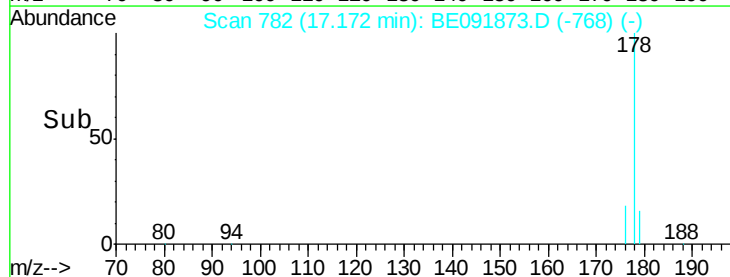
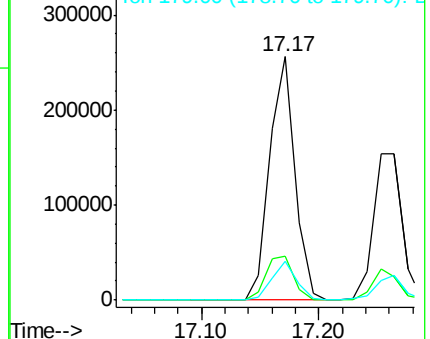
178 100

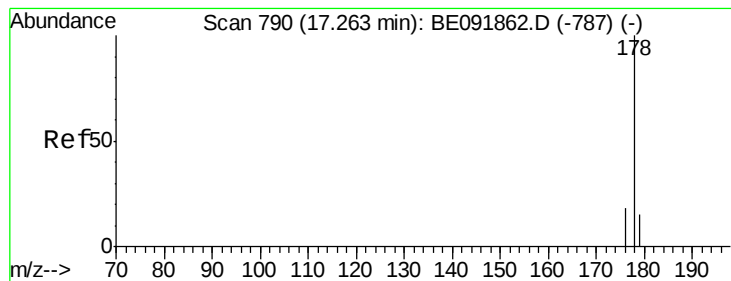
176 19.7 15.4 23.2

179 15.4 12.9 19.3



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





#29

Anthracene

Concen: 4.87 ng

RT: 17.25 min Scan# 789

Delta R.T. -0.01 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

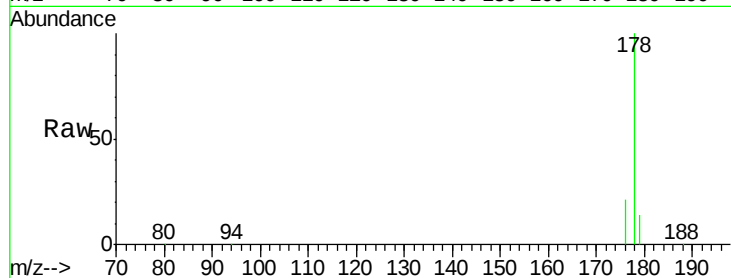
Tgt Ion:178 Resp: 264233

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

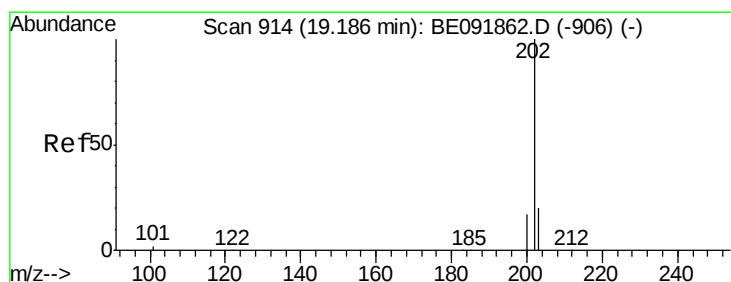
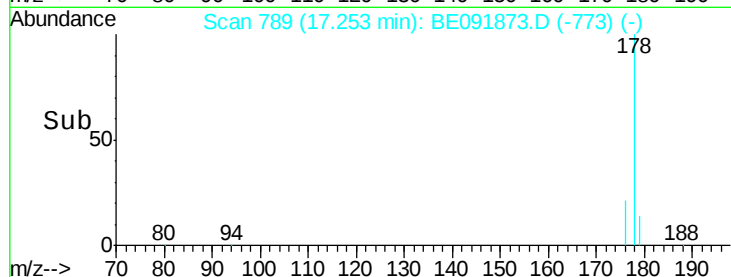
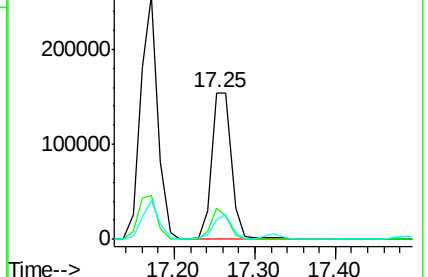
179 15.7 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#30

Fluoranthene

Concen: 12.51 ng

RT: 19.17 min Scan# 913

Delta R.T. -0.02 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

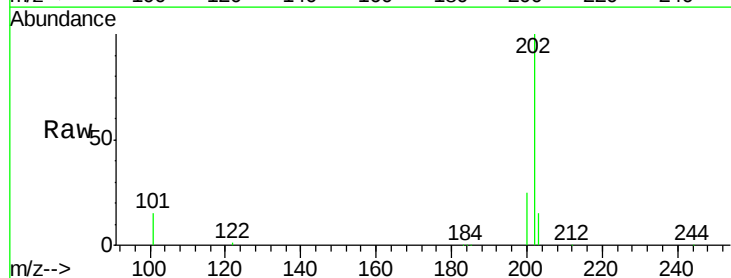
Tgt Ion:202 Resp: 745524

Ion Ratio Lower Upper

202 100

101 12.0 9.4 14.0

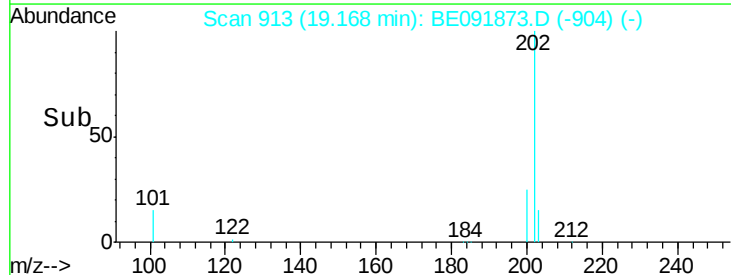
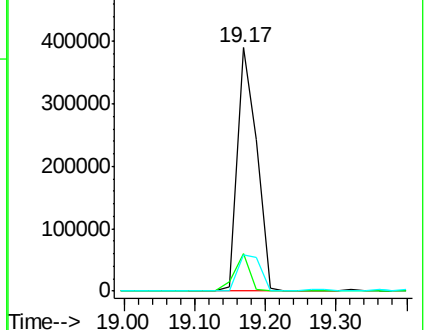
203 17.9 14.3 21.5

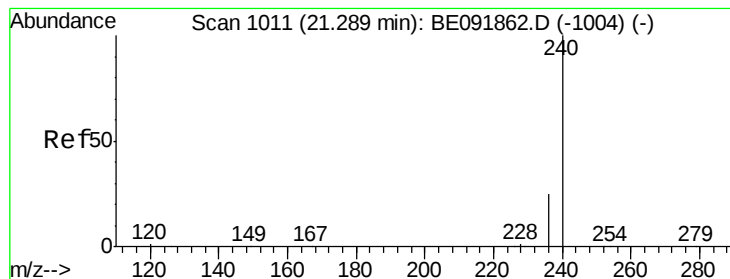


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.29 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

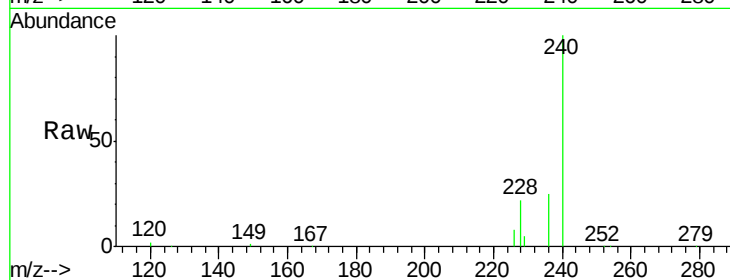
Tgt Ion:240 Resp: 278657

Ion Ratio Lower Upper

240 100

120 1.8 1.2 1.8

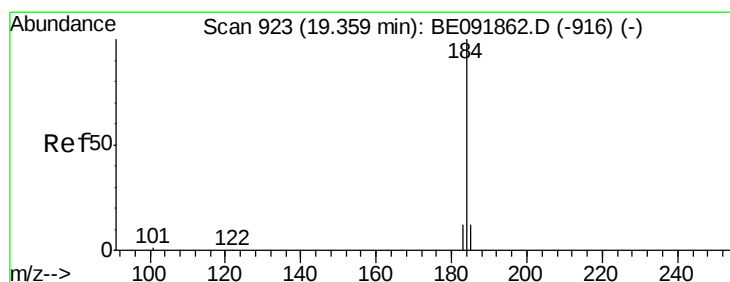
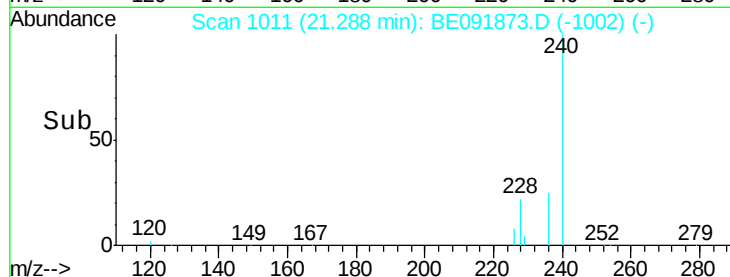
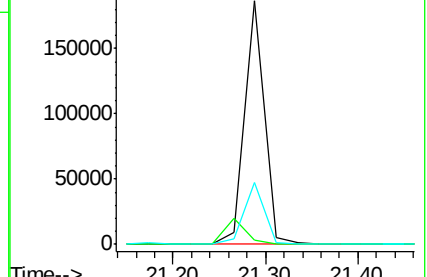
236 25.2 19.8 29.8



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



#32

Benzidine

Concen: 0.20 ng

RT: 19.36 min Scan# 923

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

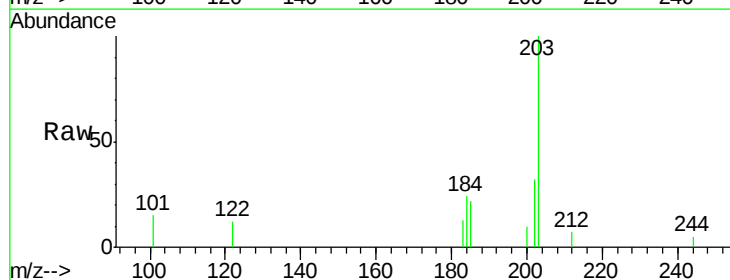
Tgt Ion:184 Resp: 2232

Ion Ratio Lower Upper

184 100

185 93.4 11.4 17.2#

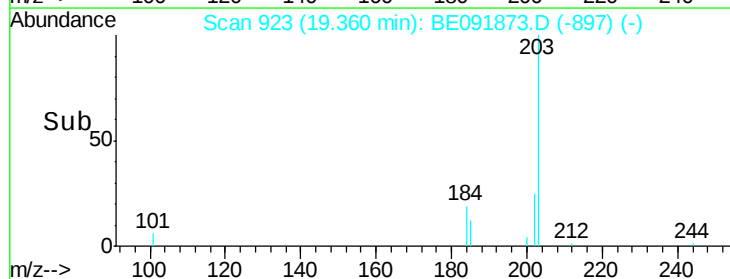
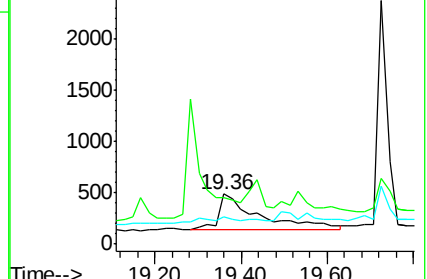
183 54.5 11.8 17.6#

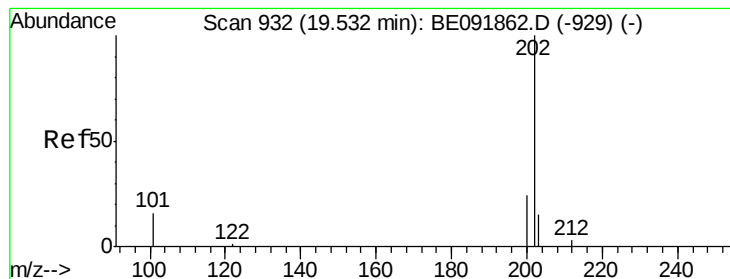


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#33

Pyrene

Concen: 12.22 ng

RT: 19.53 min Scan# 932

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

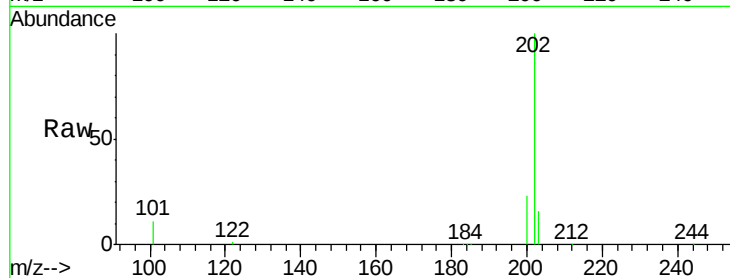
Tgt Ion:202 Resp: 722542

Ion Ratio Lower Upper

202 100

200 22.0 16.9 25.3

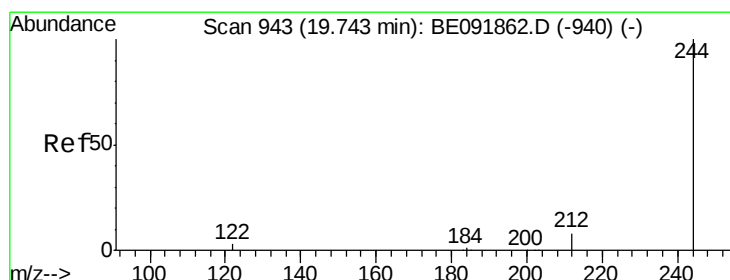
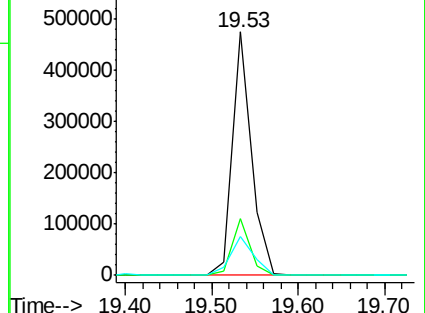
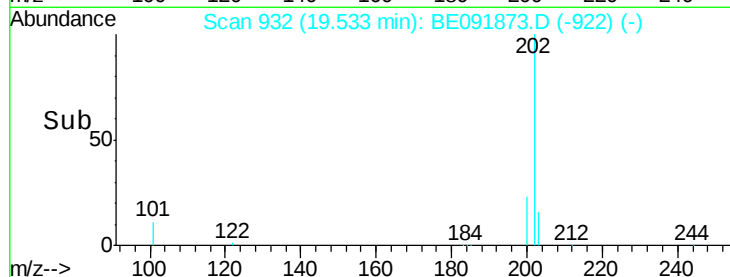
203 20.1 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#34

Terphenyl-d14

Concen: 5.20 ng

RT: 19.74 min Scan# 943

Delta R.T. 0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

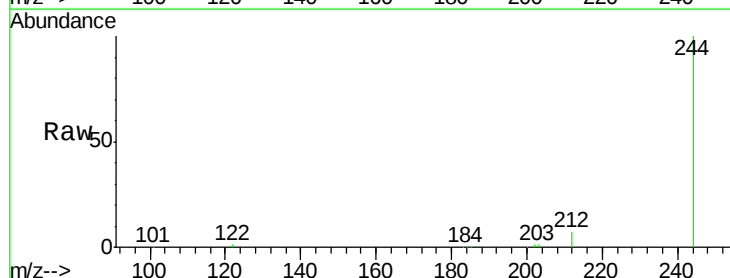
Tgt Ion:244 Resp: 218828

Ion Ratio Lower Upper

244 100

212 7.2 6.5 9.7

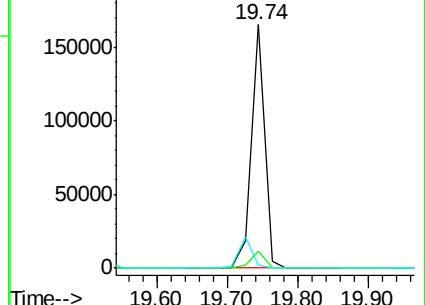
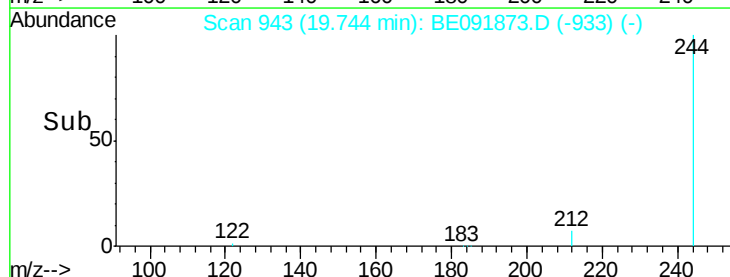
122 1.3 2.9 4.3#

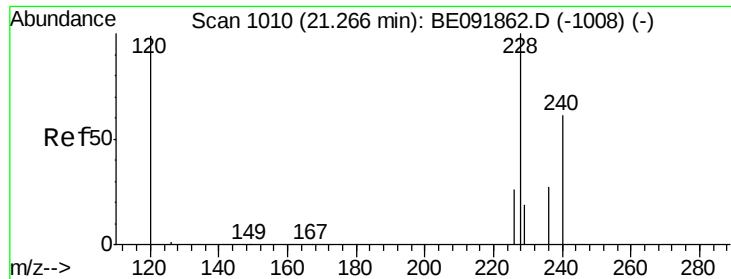


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#35

Benzo(a)anthracene

Concen: 14.72 ng

RT: 21.27 min Scan# 1010

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

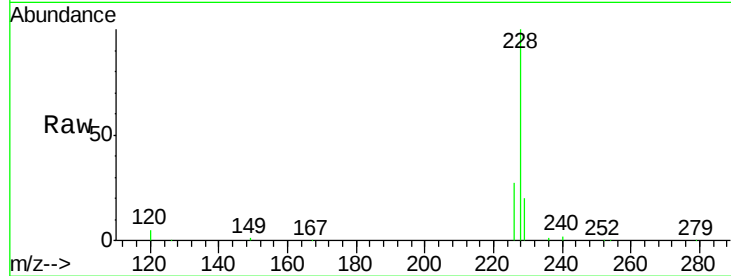
Tgt Ion:228 Resp: 1093105

Ion Ratio Lower Upper

228 100

226 27.4 21.0 31.4

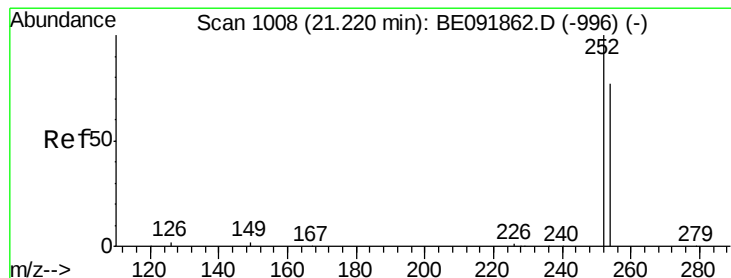
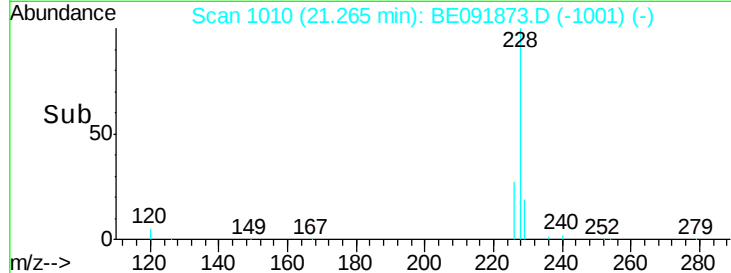
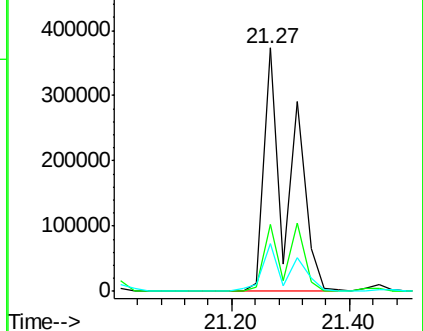
229 19.7 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#36

3,3'-Dichlorobenzidine

Concen: 1.05 ng

RT: 21.22 min Scan# 1008

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

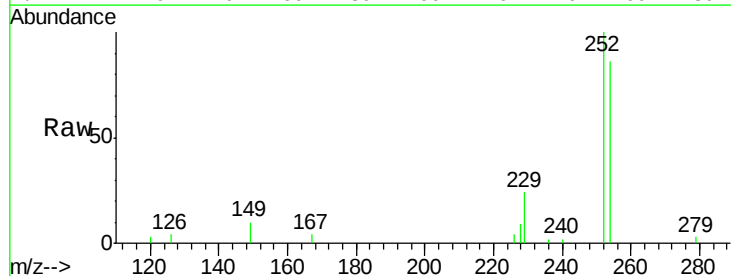
Tgt Ion:252 Resp: 42772

Ion Ratio Lower Upper

252 100

254 85.5 61.5 92.3

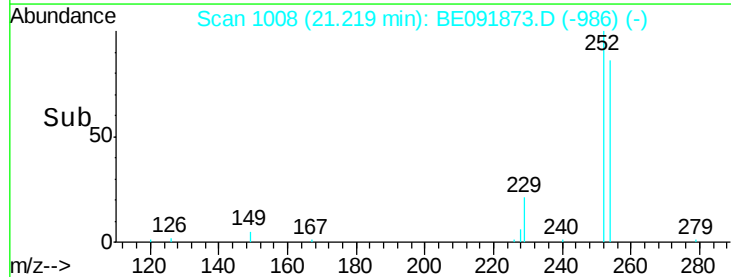
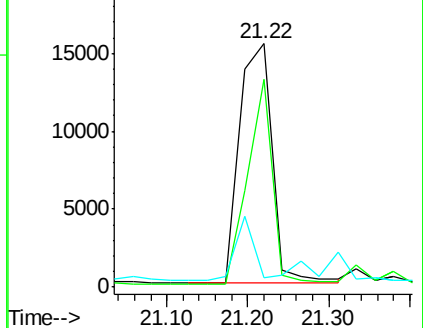
126 3.8 2.5 3.7#

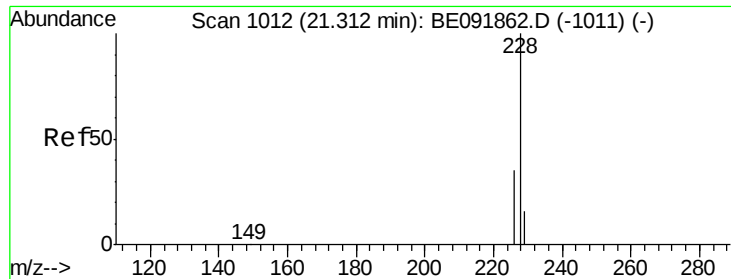


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

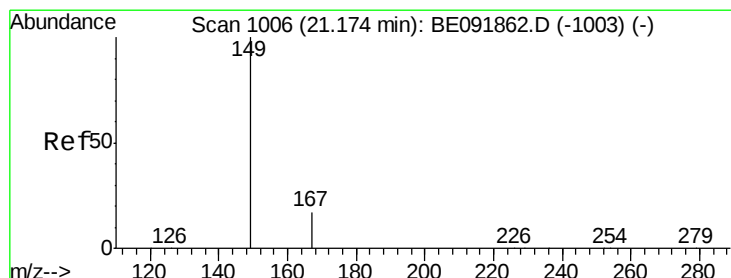
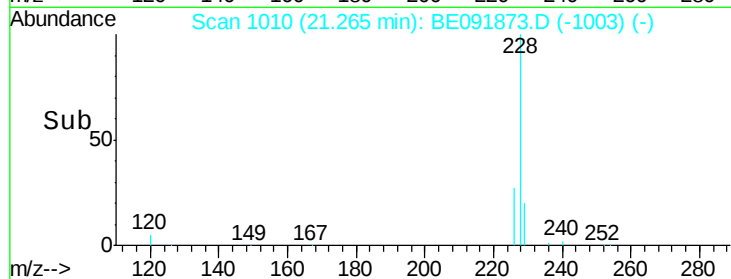
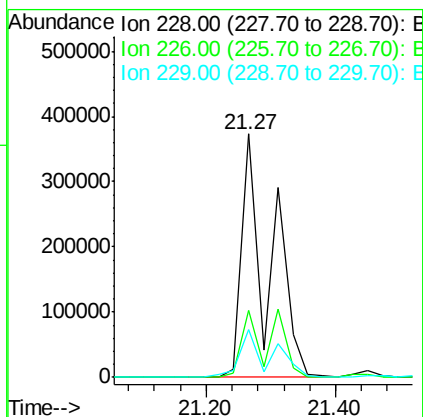
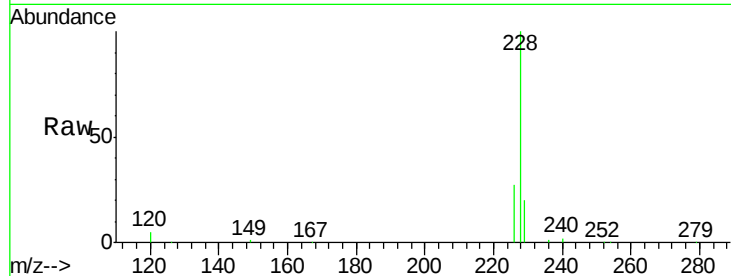




#37
 Chrysene
 Concen: 20.90 ng
 RT: 21.27 min Scan# 1010
 Delta R.T. -0.05 min
 Lab File: BE091873.D
 Acq: 26 May 2016 00:13

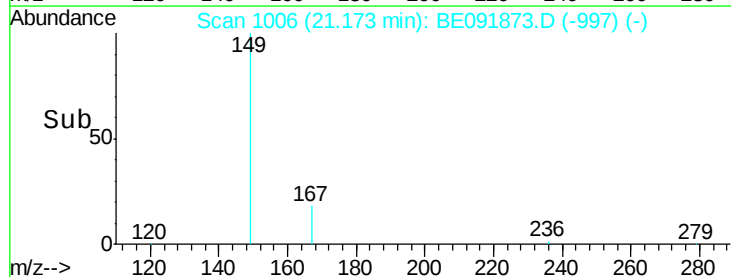
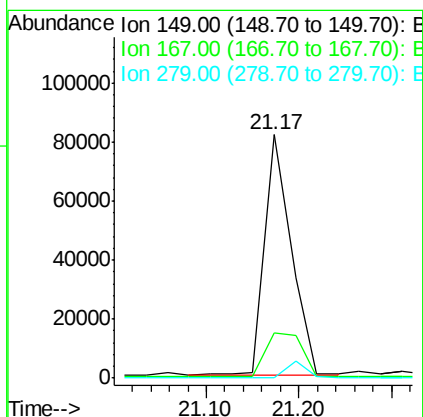
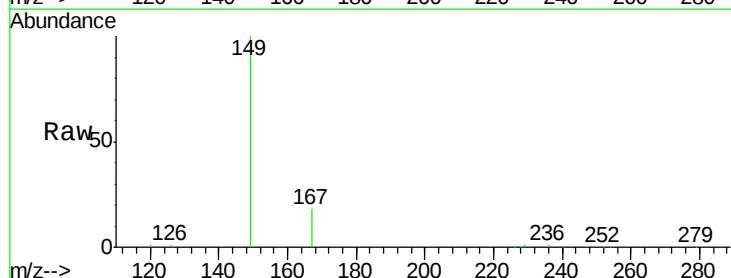
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MSD

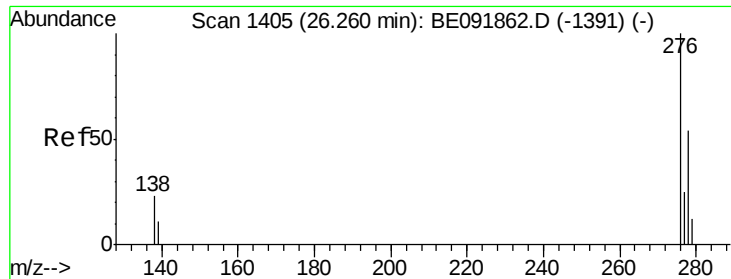
Tgt Ion:228 Resp: 1093319
 Ion Ratio Lower Upper
 228 100
 226 27.4 27.0 40.6
 229 19.7 13.8 20.8



#38
 Bis(2-ethylhexyl)phthalate
 Concen: 5.97 ng
 RT: 21.17 min Scan# 1006
 Delta R.T. -0.00 min
 Lab File: BE091873.D
 Acq: 26 May 2016 00:13

Tgt Ion:149 Resp: 160872
 Ion Ratio Lower Upper
 149 100
 167 24.7 0.0 0.0#
 279 0.0 0.0 0.0





#39

Indeno(1,2,3-cd)pyrene

Concen: 7.62 ng

RT: 26.26 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

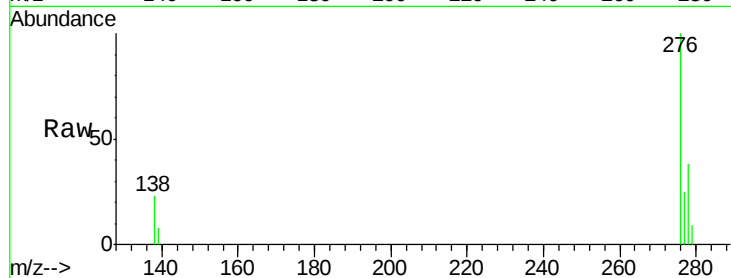
Tgt Ion:276 Resp: 530556

Ion Ratio Lower Upper

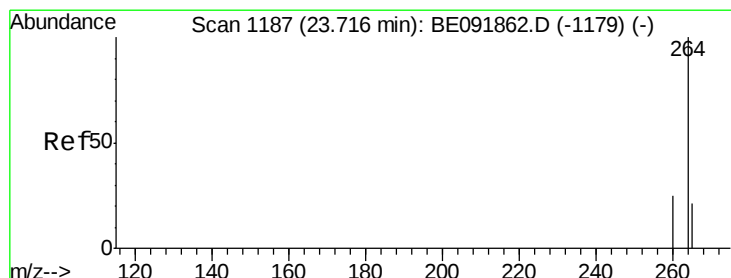
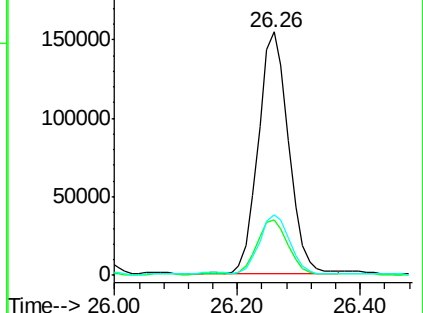
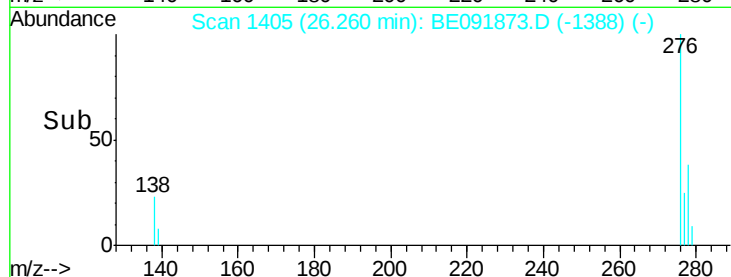
276 100

138 22.7 19.7 29.5

277 24.1 20.1 30.1



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



#40

Perylene-d12

Concen: 5.00 ng

RT: 23.72 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

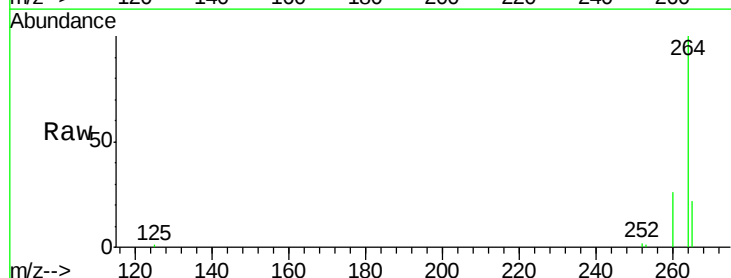
Tgt Ion:264 Resp: 248593

Ion Ratio Lower Upper

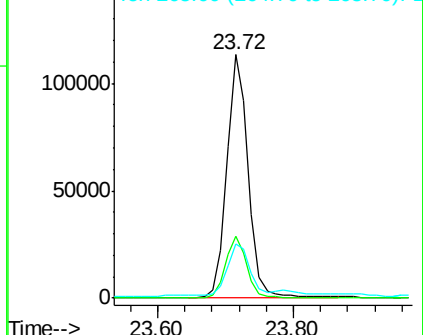
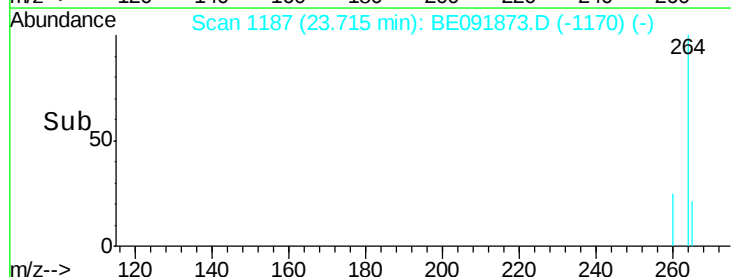
264 100

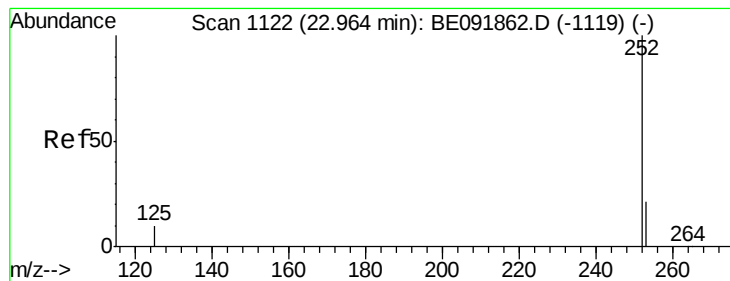
260 25.6 20.3 30.5

265 22.1 17.6 26.4



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#41

Benzo(b)fluoranthene

Concen: 10.68 ng

RT: 22.97 min Scan# 1123

Delta R.T. 0.01 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

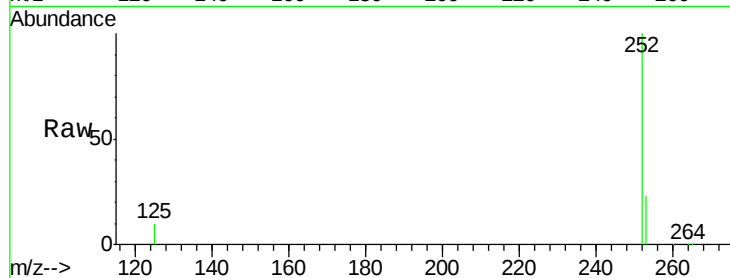
Tgt Ion:252 Resp: 716510

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.6

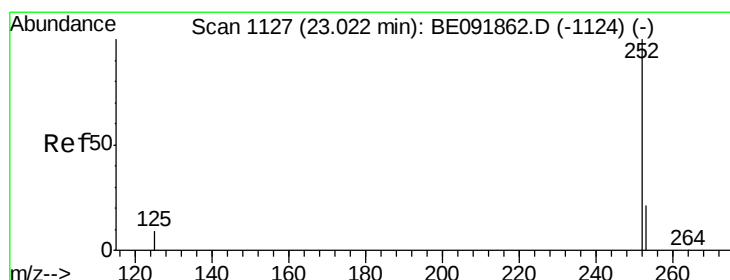
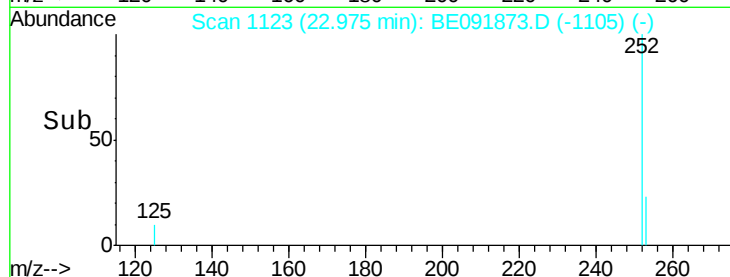
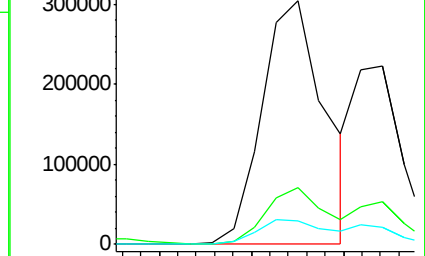
125 9.9 9.4 14.2



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: 11.77 ng

RT: 22.97 min Scan# 1123

Delta R.T. -0.05 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

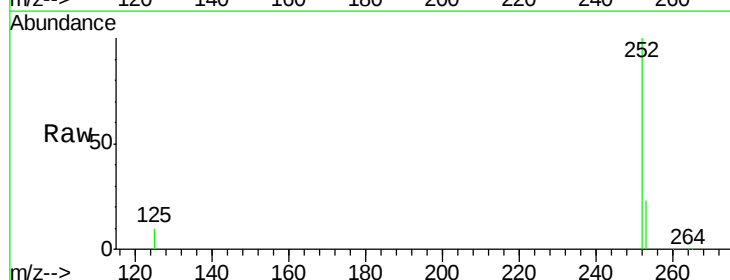
Tgt Ion:252 Resp: 716510

Ion Ratio Lower Upper

252 100

253 23.3 19.4 29.2

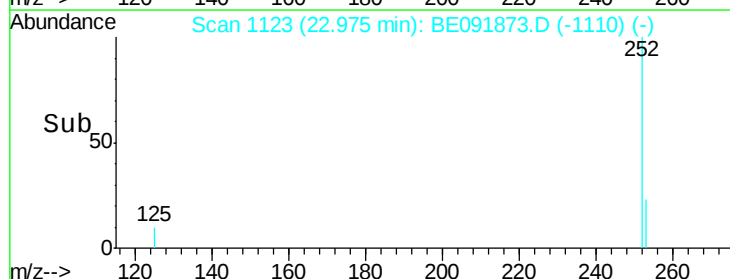
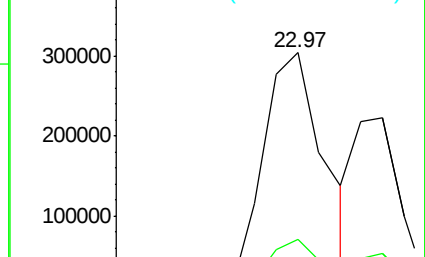
125 9.9 8.3 12.5

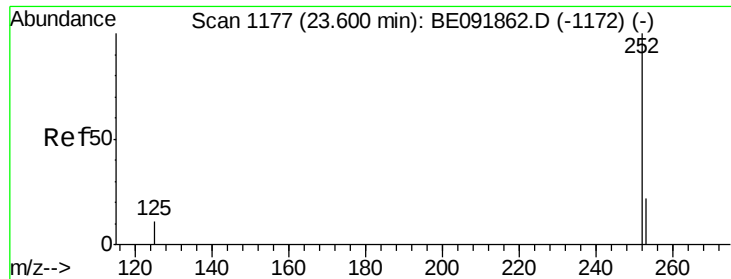


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#43

Benzo(a)pyrene

Concen: 8.44 ng

RT: 23.60 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

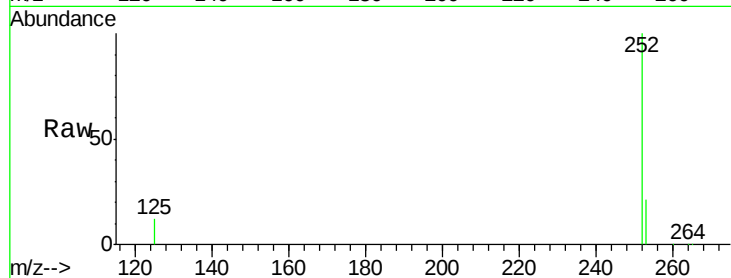
Tgt Ion: 252 Resp: 513112

Ion Ratio Lower Upper

252 100

253 21.4 18.9 28.3

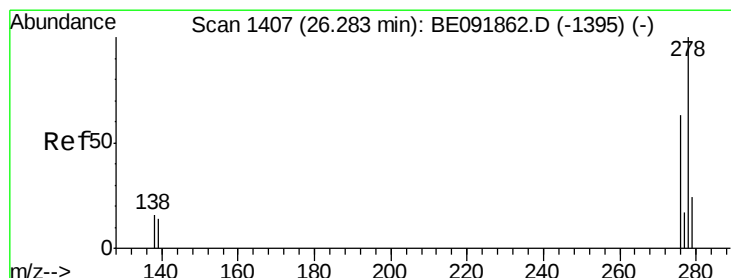
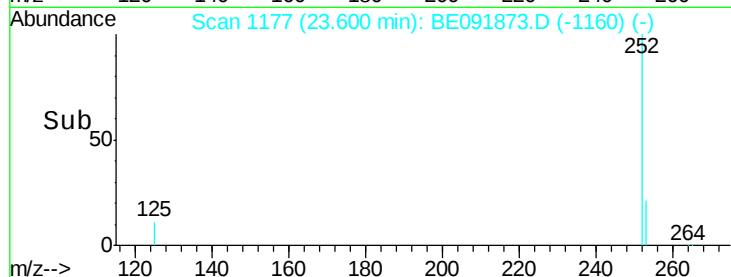
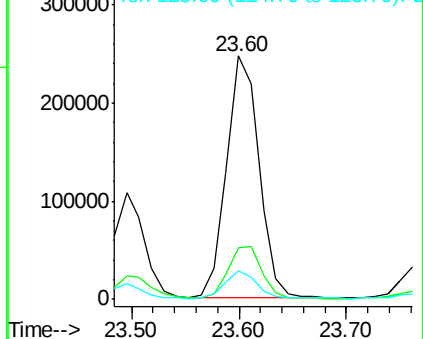
125 11.6 10.5 15.7



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



#44

Dibenzo(a,h)anthracene

Concen: 5.14 ng

RT: 26.28 min Scan# 1407

Delta R.T. -0.00 min

Lab File: BE091873.D

Acq: 26 May 2016 00:13

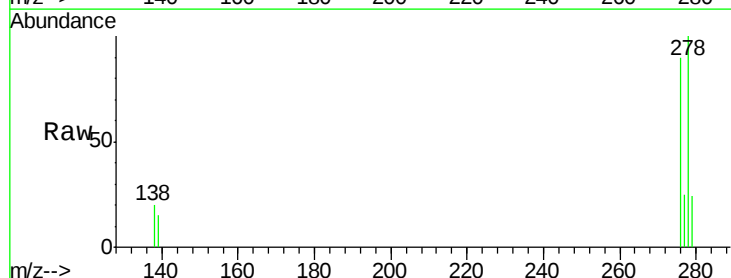
Tgt Ion: 278 Resp: 299333

Ion Ratio Lower Upper

278 100

139 15.3 12.6 18.8

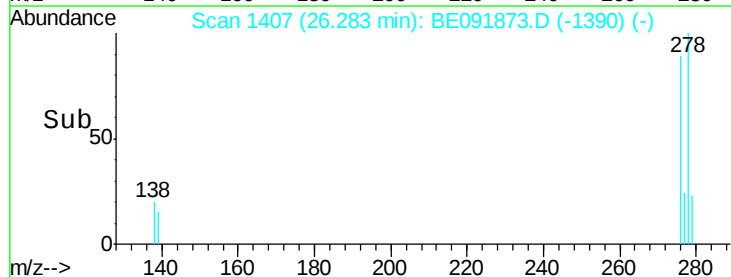
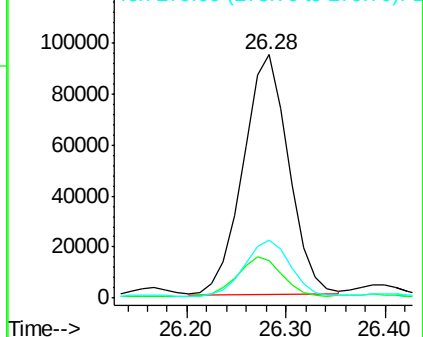
279 23.9 20.0 30.0

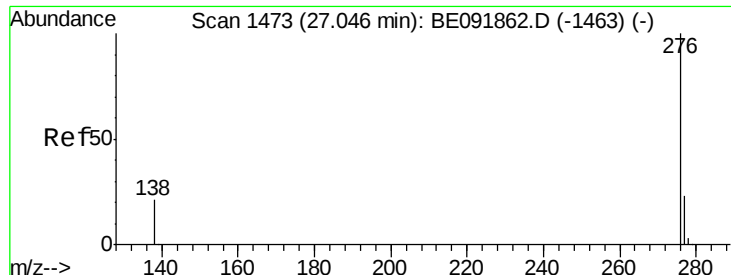


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#45

Benzo(g,h,i)perylene

Concen: 8.14 ng

RT: 27.05 min Scan# 1473

Delta R.T. -0.00 min

Lab File: BE091873.D

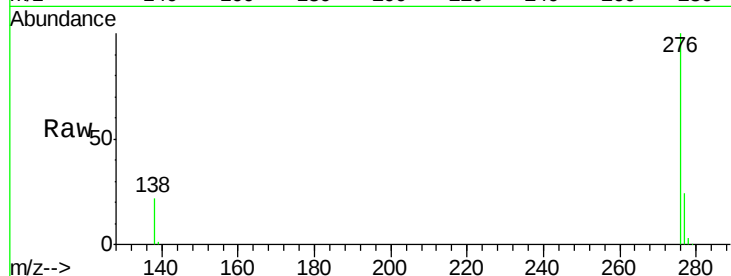
Acq: 26 May 2016 00:13

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD



Tgt Ion: 276 Resp: 481120

Ion Ratio Lower Upper

276 100

277 23.5 19.5 29.3

138 22.0 17.7 26.5

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

