

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080116\
 Data File : BE092098.D
 Acq On : 1 Aug 2016 19:02
 Operator : UM/SJ
 Sample : PB92309BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB92309BS

Quant Time: Aug 02 01:06:20 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE080116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 17:22:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.18	152	12372	5.00	ng	0.00
8) Naphthalene-d8	10.97	136	52280	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	24783	5.00	ng	0.00
24) Phenanthrene-d10	17.58	188	86188	5.00	ng	0.00
31) Chrysene-d12	21.74	240	104091	5.00	ng	0.00
40) Perylene-d12	24.15	264	96767	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	22336	6.58	ng	0.00
5) Phenol-d6	7.33	99	29501	6.25	ng	0.00
9) Nitrobenzene-d5	9.35	82	15544	3.81	ng	0.00
16) 2,4,6-Tribromophenol	16.32	330	10003	6.11	ng	-0.02
17) 2-Fluorobiphenyl	13.46	172	34383	3.58	ng	0.00
34) Terphenyl-d14	20.21	244	31958	3.13	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	4877	3.17	ng	# 79
3) n-Nitrosodimethylamine	3.78	42	7901	3.48	ng	# 92
6) bis(2-Chloroethyl)ether	7.59	93	13156	3.44	ng	97
7) n-Nitroso-di-n-propylamine	8.98	70	11183	3.08	ng	98
10) Nitrobenzene	9.38	77	15644	3.60	ng	98
11) bis(2-Chloroethoxy)methane	10.40	93	16557	3.54	ng	96
12) Naphthalene	11.02	128	41807	3.47	ng	# 96
13) Hexachlorobutadiene	11.32	225	6867	3.50	ng	# 96
14) 2-Methylnaphthalene	12.65	142	28373	3.52	ng	97
18) Acenaphthylene	14.59	152	159358	2.90	ng	# 92
19) 2,6-Dinitrotoluene	14.46	165	20363	3.16	ng	# 100
20) Acenaphthene	14.92	154	26851	3.54	ng	# 62
21) 2,4-Dinitrotoluene	15.25	165	32731	3.09	ng	# 1
22) Fluorene	15.89	166	35628	3.13	ng	100
23) 4-Chlorophenyl-phenylether	15.89	204	16506	2.84	ng	90
25) 4-Bromophenyl-phenylether	16.76	248	10210	3.53	ng	97
26) Hexachlorobenzene	16.88	284	10304	3.58	ng	99
27) Pentachlorophenol	17.23	266	4992	6.37	ng	# 83
28) Phenanthrene	17.62	178	76277	3.73	ng	98
29) Anthracene	17.70	178	59412	3.46	ng	100
30) Fluoranthene	19.61	202	223673	3.77	ng	# 67
32) Benzidine	19.81	184	4875	0.71	ng	# 77
33) Pyrene	19.98	202	392621	3.32	ng	97
35) Benzo(a)anthracene	21.72	228	171415	6.97	ng	97
36) 3,3'-Dichlorobenzidine	21.67	252	19680	2.10	ng	# 79
37) Chrysene	21.72	228	173205	6.99	ng	96
38) Bis(2-ethylhexyl)phthalate	21.65	149	63837	3.13	ng	# 22
39) Indeno(1,2,3-cd)pyrene	26.65	276	443266	4.02	ng	99
41) Benzo(b)fluoranthene	23.41	252	98558	3.98	ng	# 96
42) Benzo(k)fluoranthene	23.45	252	95000	3.46	ng	96
43) Benzo(a)pyrene	24.03	252	94201	3.78	ng	95
44) Dibenzo(a,h)anthracene	26.67	278	91716	3.96	ng	# 93
45) Benzo(g,h,i)perylene	27.42	276	376798	3.87	ng	95

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QLast Update : Mon Aug 01 17:22:55 2016
Response via : Initial Calibration

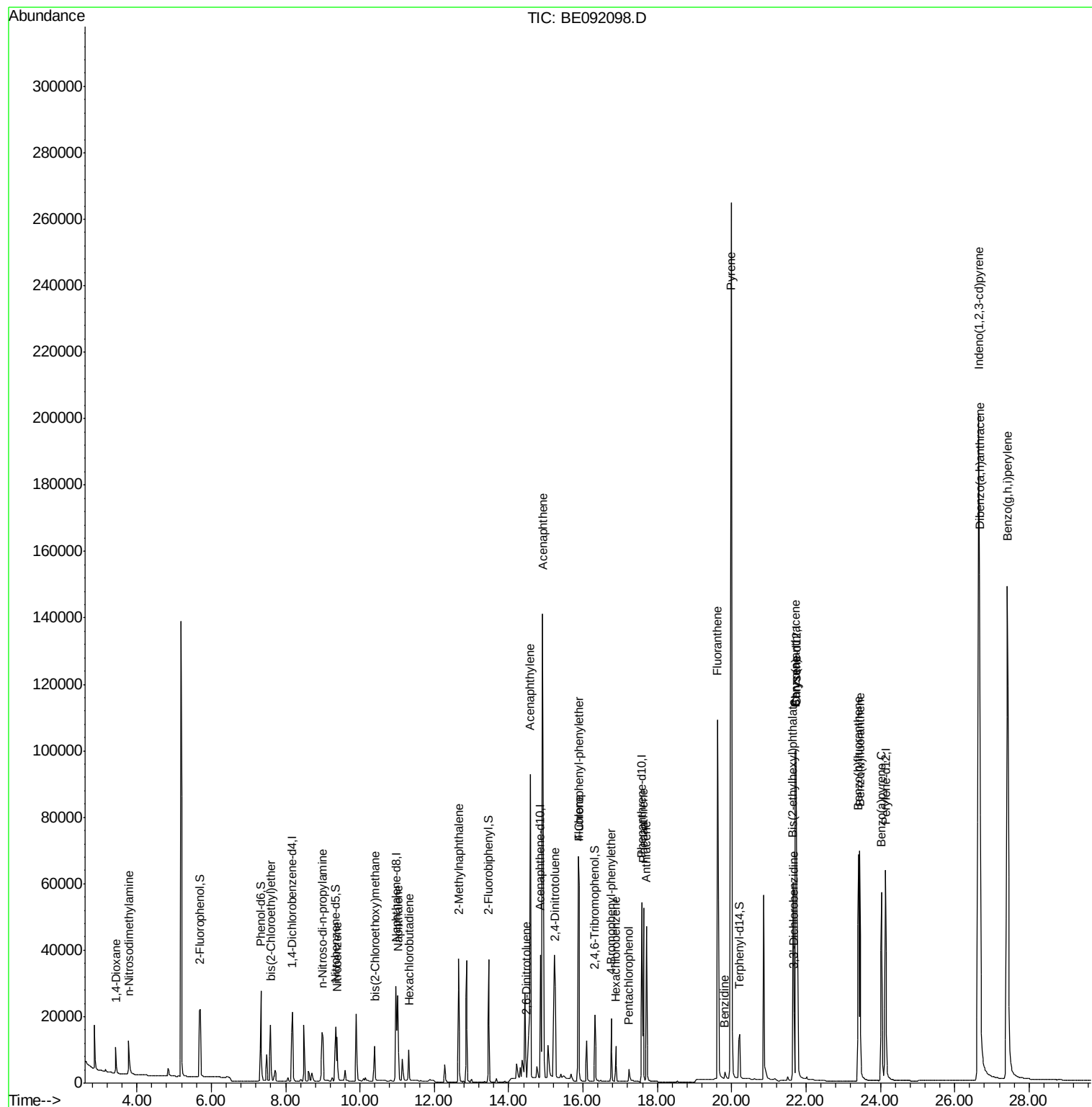
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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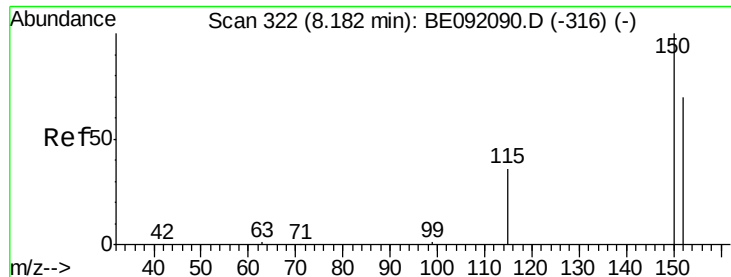
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.18 min Scan# 322

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

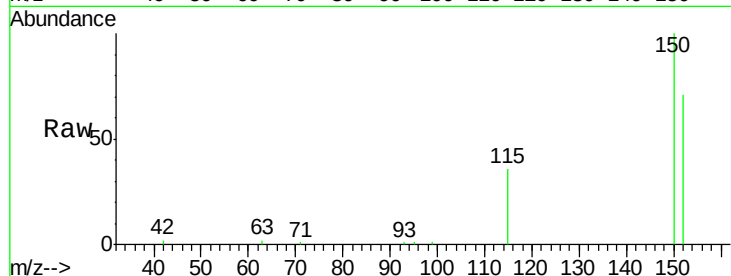
Tgt Ion:152 Resp: 12372

Ion Ratio Lower Upper

152 100

150 140.5 106.0 159.0

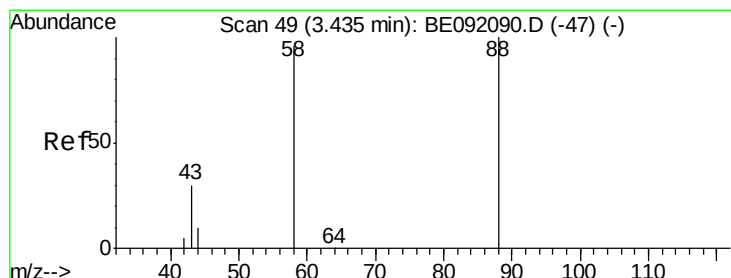
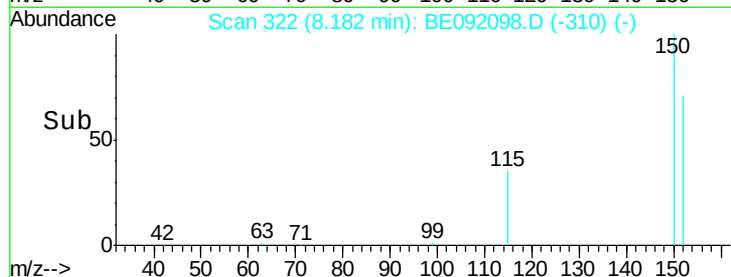
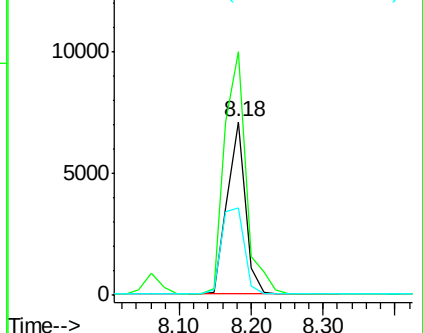
115 50.3 36.9 55.3



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: 3.17 ng

RT: 3.44 min Scan# 49

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

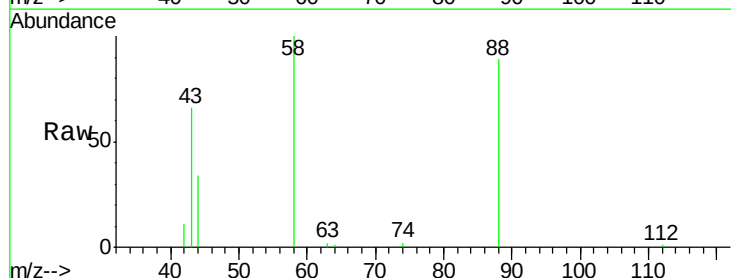
Tgt Ion: 88 Resp: 4877

Ion Ratio Lower Upper

88 100

58 90.5 62.1 93.1

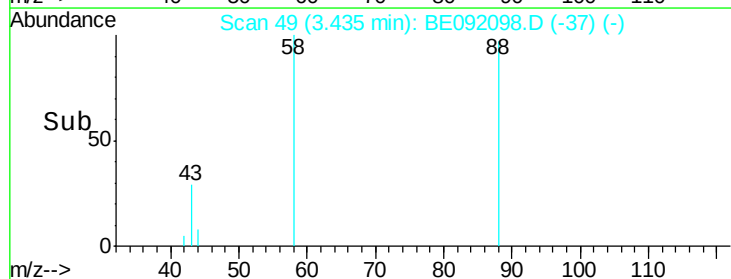
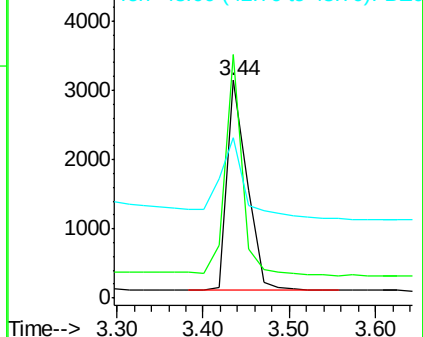
43 53.2 27.2 40.8#

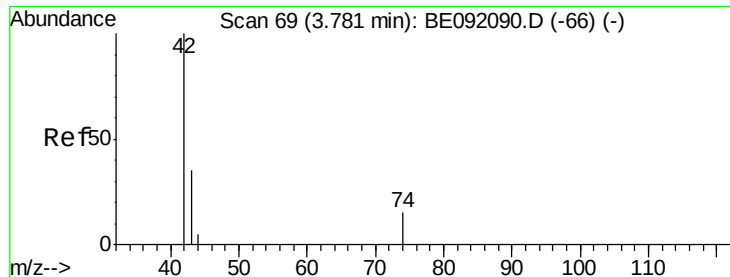


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.48 ng

RT: 3.78 min Scan# 69

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

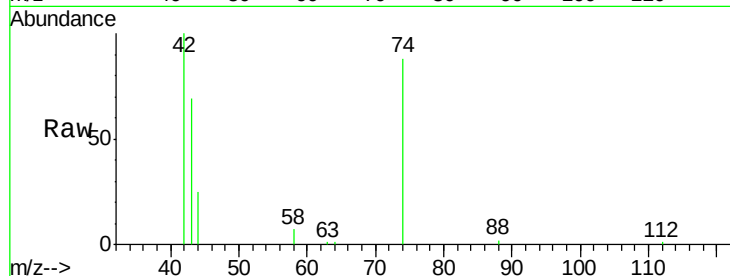
Tgt Ion: 42 Resp: 7901

Ion Ratio Lower Upper

42 100

74 111.1 82.8 124.2

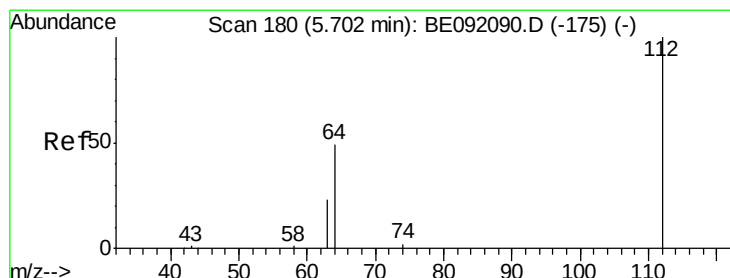
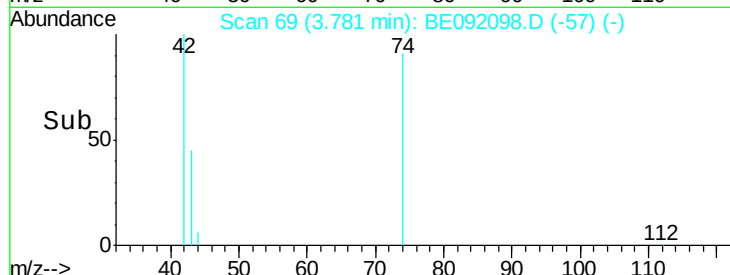
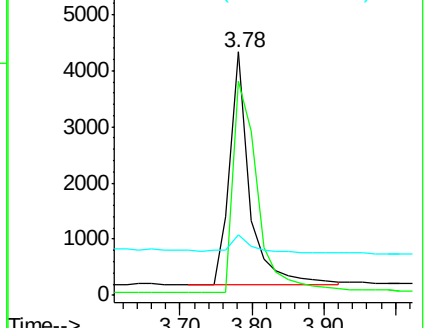
44 8.2 9.0 13.4#



Abundance Ion 42.00 (41.70 to 42.70): BE092090.D (-66) (-)

Ion 74.00 (73.70 to 74.70): BE092090.D (-66) (-)

Ion 44.00 (43.70 to 44.70): BE092090.D (-66) (-)



#4

2-Fluorophenol

Concen: 6.58 ng

RT: 5.70 min Scan# 180

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

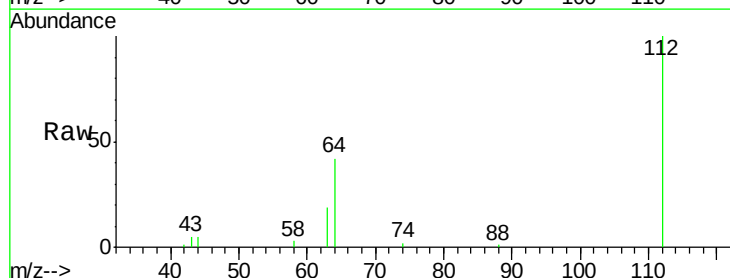
Tgt Ion: 112 Resp: 22336

Ion Ratio Lower Upper

112 100

64 67.6 55.9 83.9

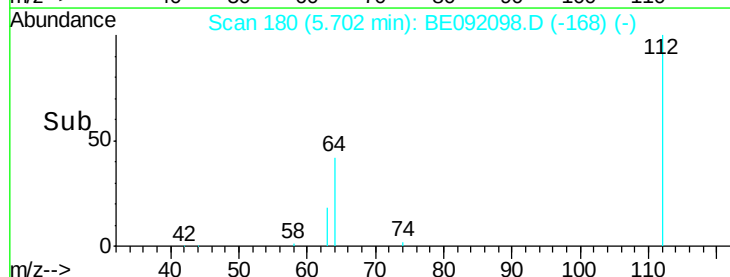
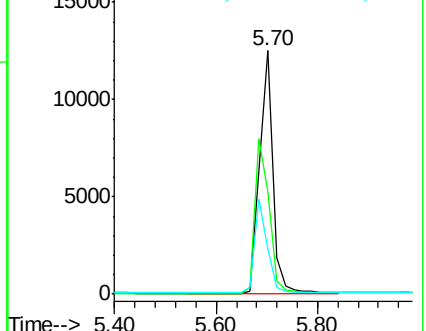
63 36.9 31.1 46.7

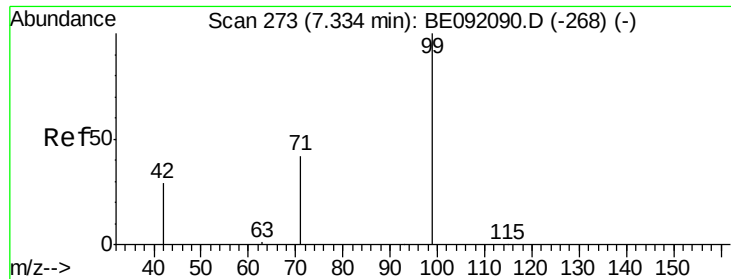


Abundance Ion 112.00 (111.70 to 112.70): BE092090.D (-175) (-)

Ion 64.00 (63.70 to 64.70): BE092090.D (-175) (-)

Ion 63.00 (62.70 to 63.70): BE092090.D (-175) (-)





#5

Phenol-d6

Concen: 6.25 ng

RT: 7.33 min Scan# 273

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

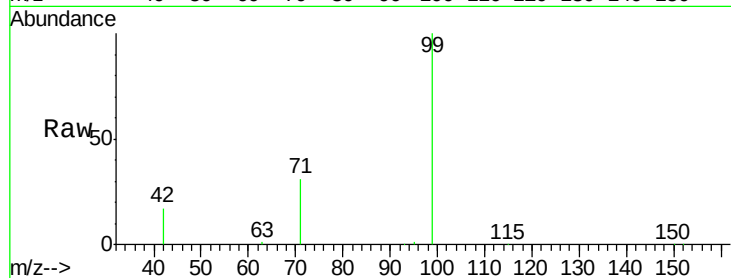
Tgt Ion: 99 Resp: 29501

Ion Ratio Lower Upper

99 100

42 25.0 22.4 33.6

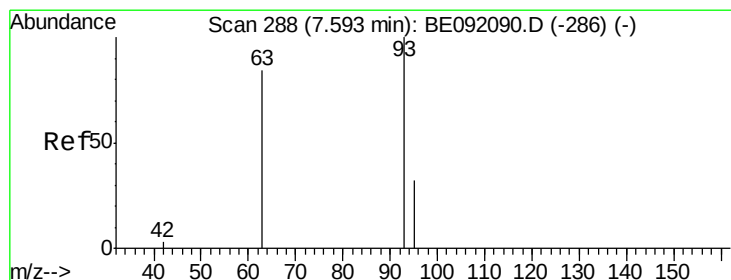
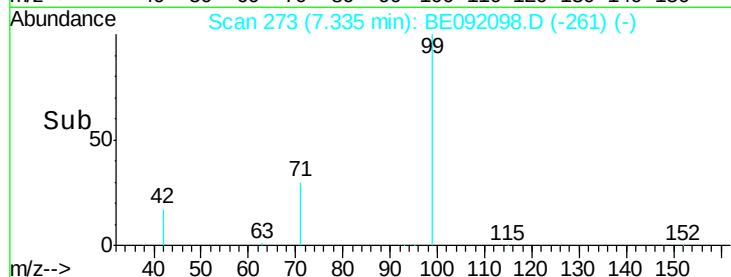
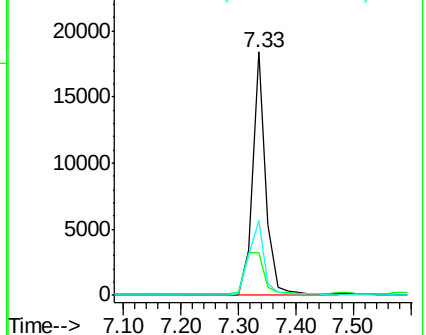
71 34.7 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 3.44 ng

RT: 7.59 min Scan# 288

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

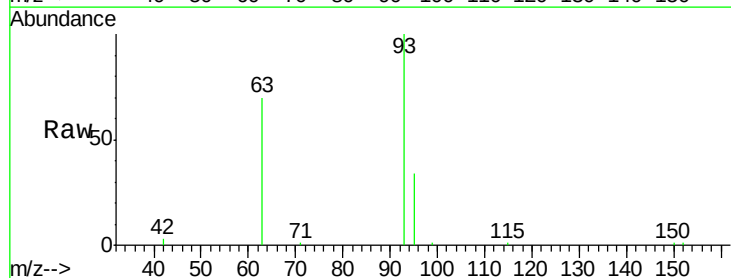
Tgt Ion: 93 Resp: 13156

Ion Ratio Lower Upper

93 100

63 84.4 64.4 96.6

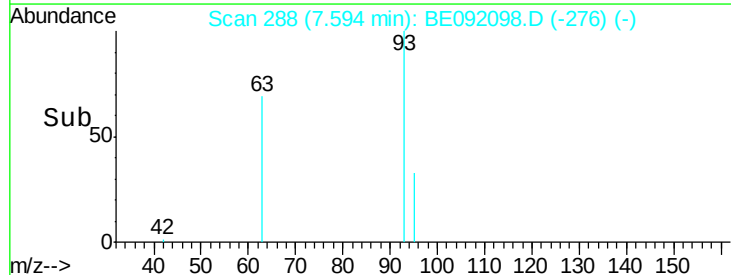
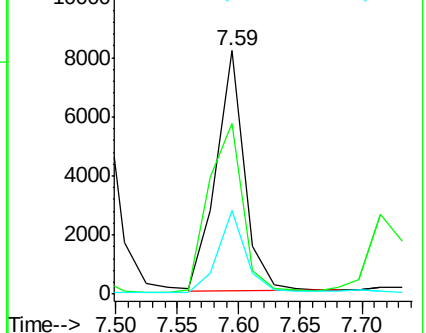
95 32.9 25.8 38.8

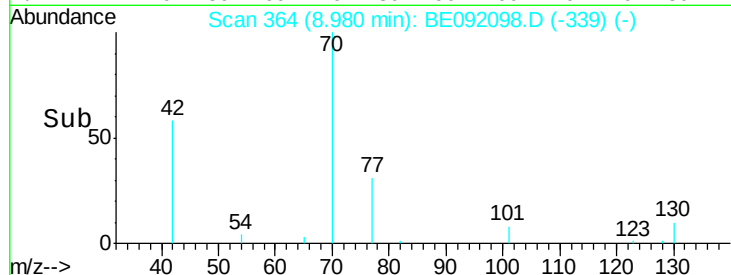
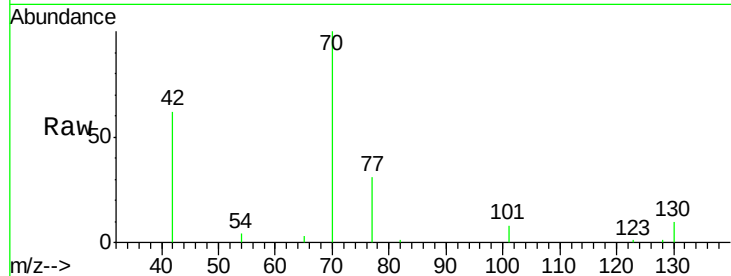
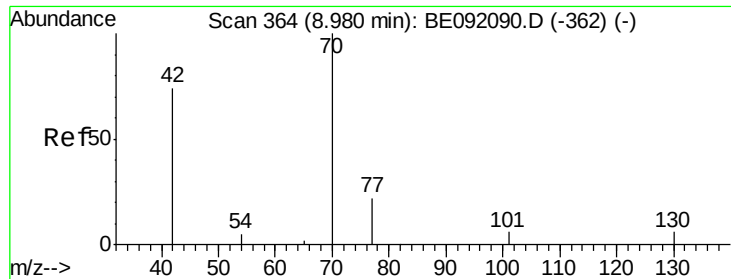


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

n-Nitroso-di-n-propylamine

Concen: 3.08 ng

RT: 8.98 min Scan# 364

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

Tgt Ion: 70 Resp: 11183

Ion Ratio Lower Upper

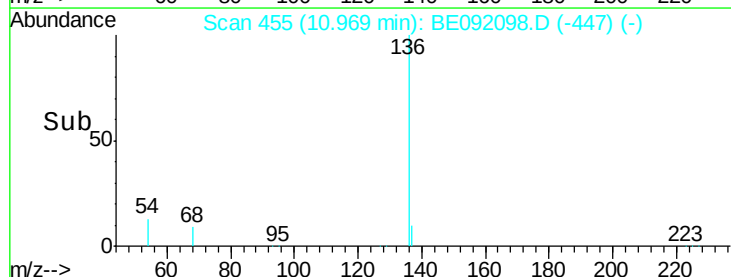
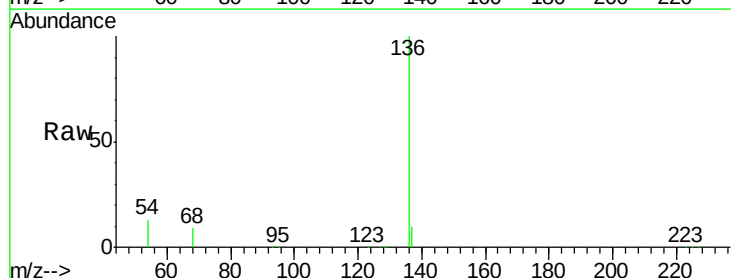
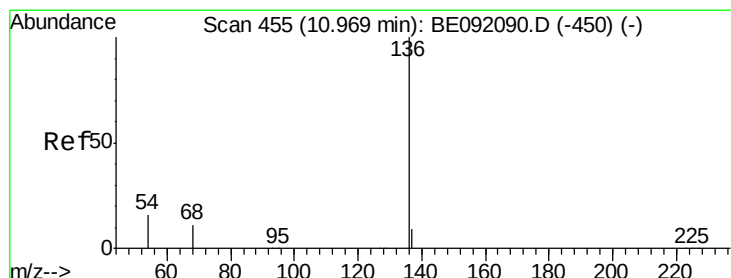
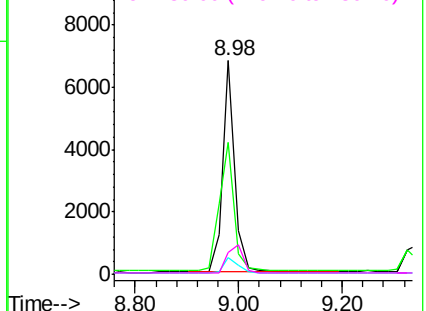
70 100

42 73.2 60.2 90.4

101 8.5 6.8 10.2

130 17.1 13.3 19.9

Abundance Ion 70.00 (69.70 to 70.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.97 min Scan# 455

Delta R.T. -0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Tgt Ion: 136 Resp: 52280

Ion Ratio Lower Upper

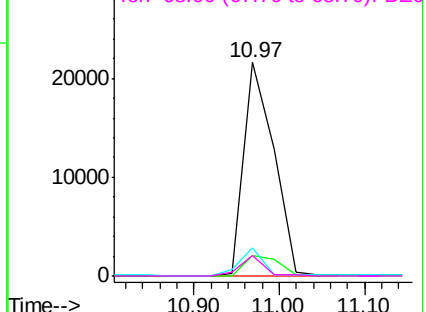
136 100

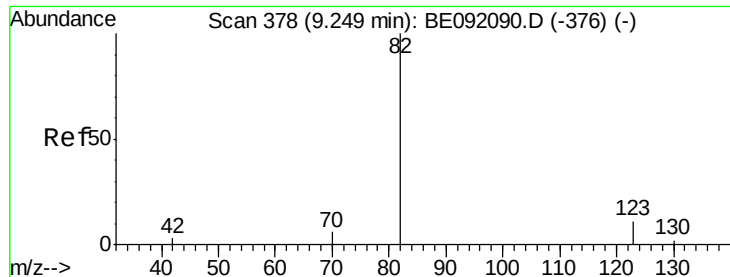
137 9.8 9.1 13.7

54 13.1 2.7 4.1#

68 9.5 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





#9

Nitrobenzene-d5

Concen: 3.81 ng

RT: 9.35 min Scan# 383

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

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ClientSampleId :

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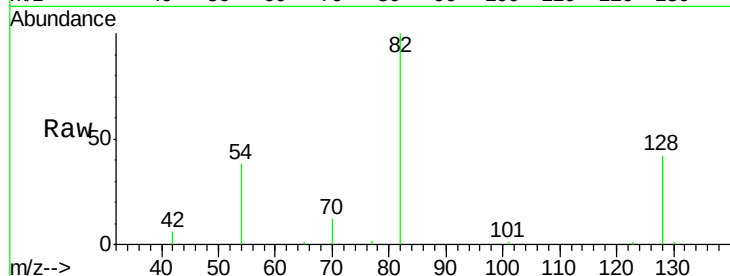
Tgt Ion: 82 Resp: 15544

Ion Ratio Lower Upper

82 100

128 41.5 33.0 49.4

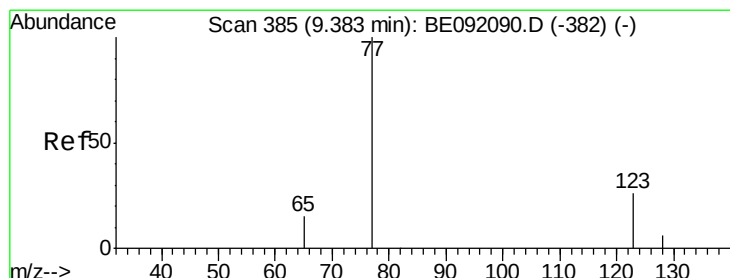
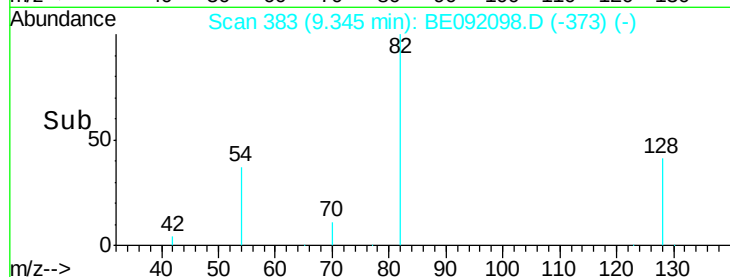
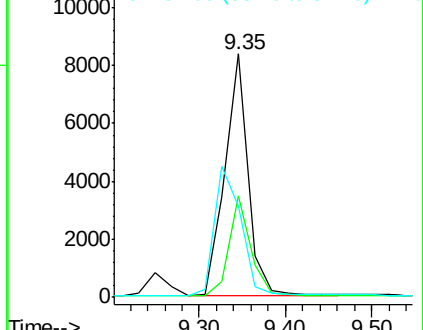
54 37.6 42.6 63.8#



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: 3.60 ng

RT: 9.38 min Scan# 385

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

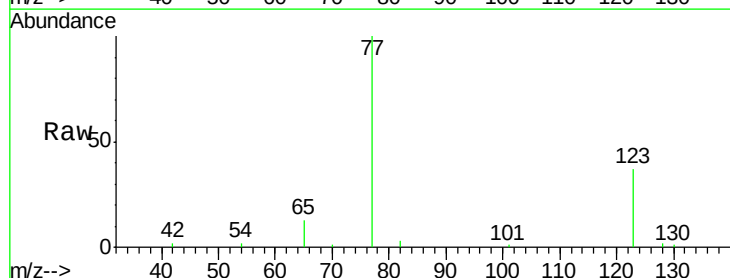
Tgt Ion: 77 Resp: 15644

Ion Ratio Lower Upper

77 100

123 38.8 29.9 44.9

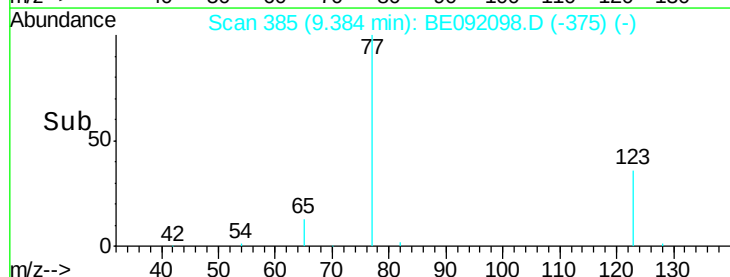
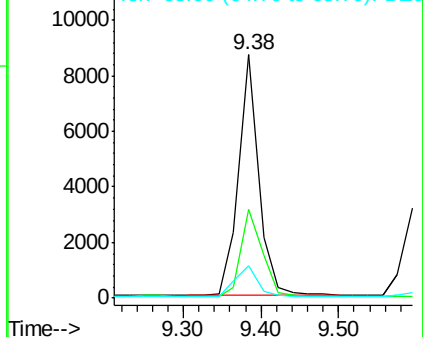
65 14.0 11.4 17.0

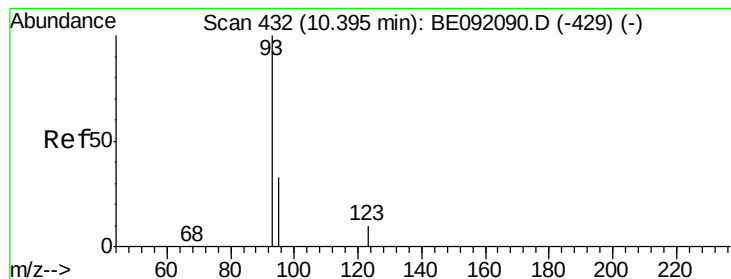


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#11

bis(2-Chloroethoxy)methane

Concen: 3.54 ng

RT: 10.40 min Scan# 432

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

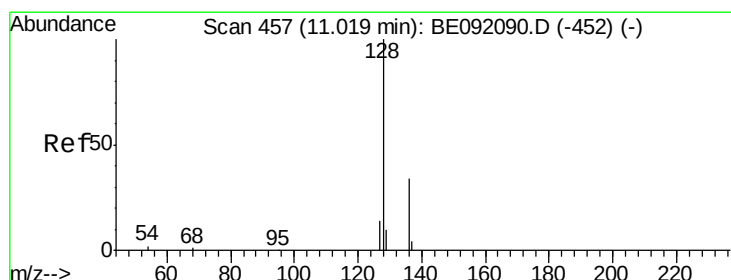
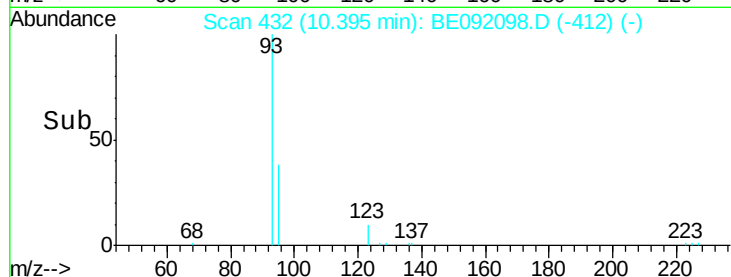
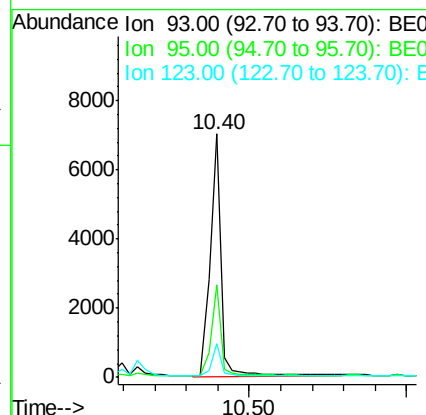
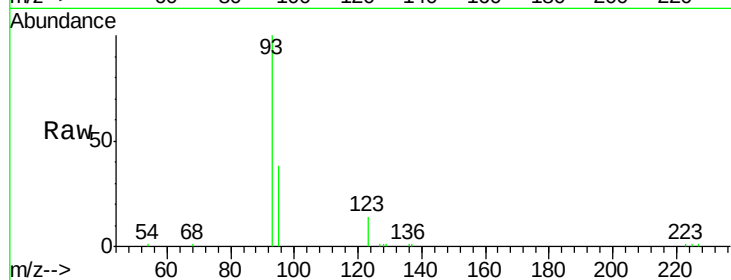
Tgt Ion: 93 Resp: 16557

Ion Ratio Lower Upper

93 100

95 33.6 25.0 37.6

123 10.7 7.8 11.8



#12

Naphthalene

Concen: 3.47 ng

RT: 11.02 min Scan# 457

Delta R.T. -0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

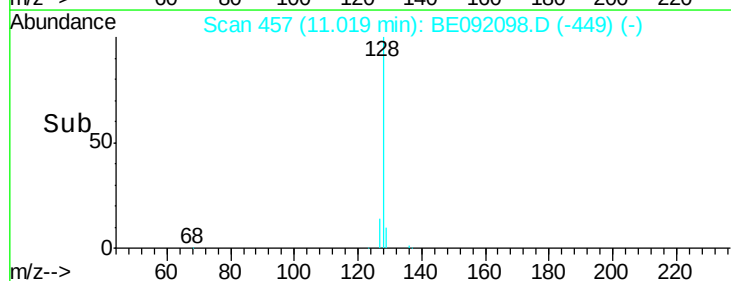
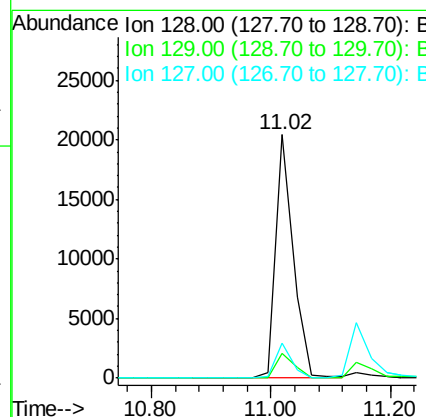
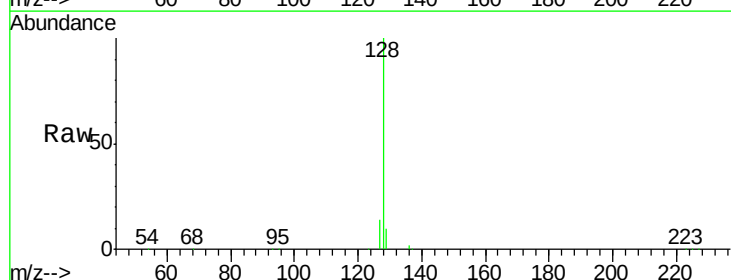
Tgt Ion: 128 Resp: 41807

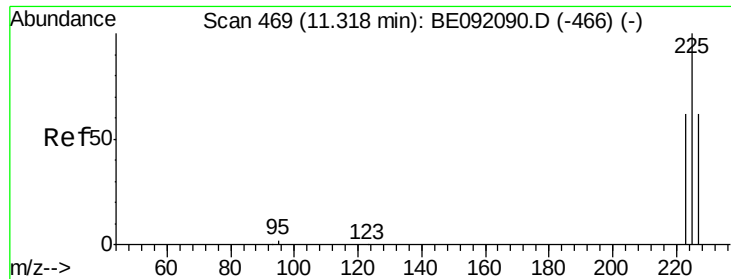
Ion Ratio Lower Upper

128 100

129 10.4 11.1 16.7#

127 14.2 11.3 16.9

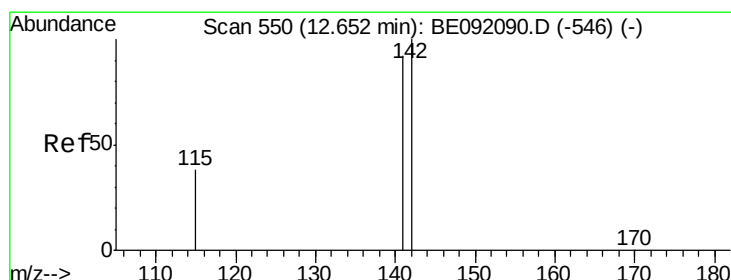
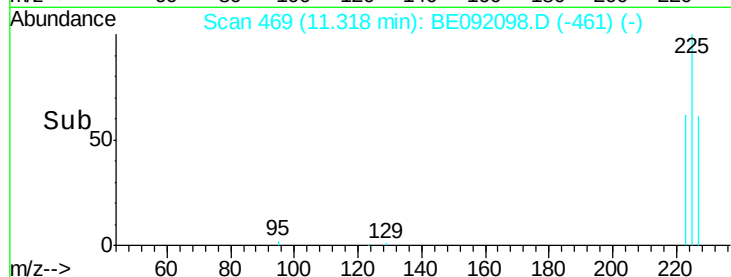
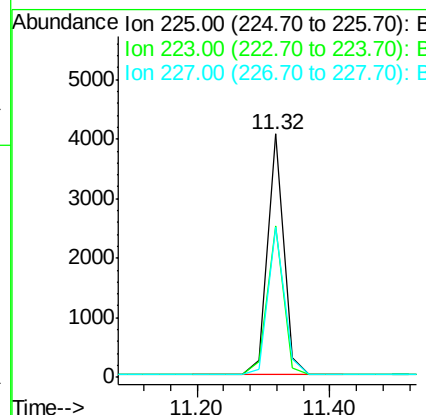
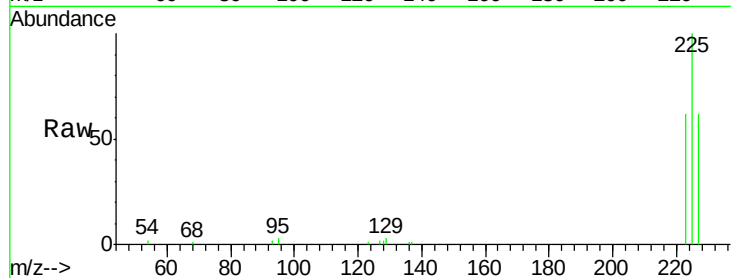




#13
Hexachlorobutadiene
Concen: 3.50 ng
RT: 11.32 min Scan# 469
Delta R.T. 0.00 min
Lab File: BE092098.D
Acq: 1 Aug 2016 19:02

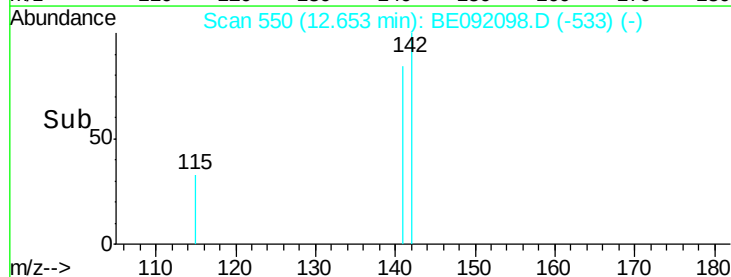
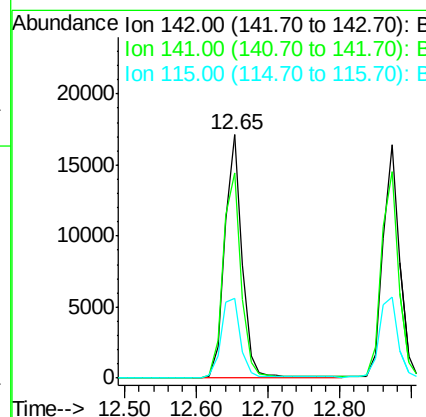
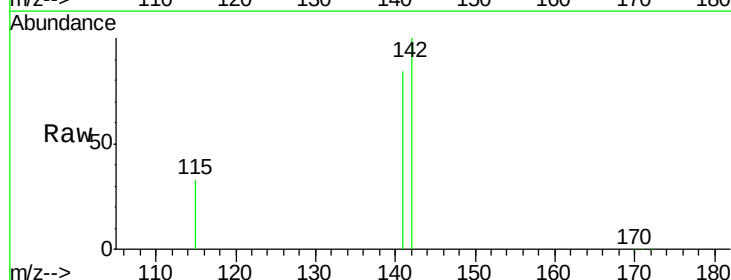
Instrument :
BNA_E
ClientSampleId :
PB92309BS

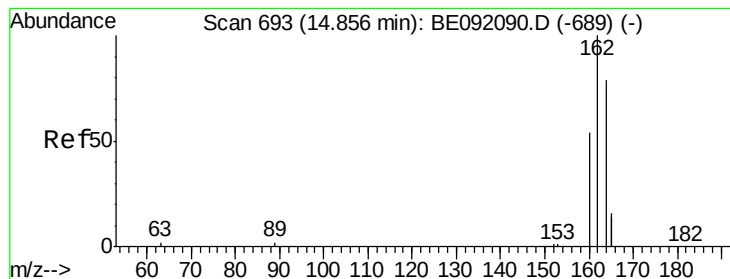
Tgt Ion: 225 Resp: 6867
Ion Ratio Lower Upper
225 100
223 62.1 51.9 77.9
227 62.3 0.0 0.0#



#14
2-Methylnaphthalene
Concen: 3.52 ng
RT: 12.65 min Scan# 550
Delta R.T. 0.00 min
Lab File: BE092098.D
Acq: 1 Aug 2016 19:02

Tgt Ion: 142 Resp: 28373
Ion Ratio Lower Upper
142 100
141 84.3 65.1 97.7
115 32.9 27.0 40.4





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.86 min Scan# 693

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

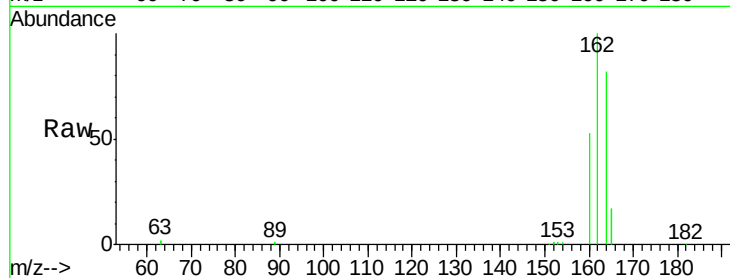
Tgt Ion:164 Resp: 24783

Ion Ratio Lower Upper

164 100

162 122.5 69.5 104.3#

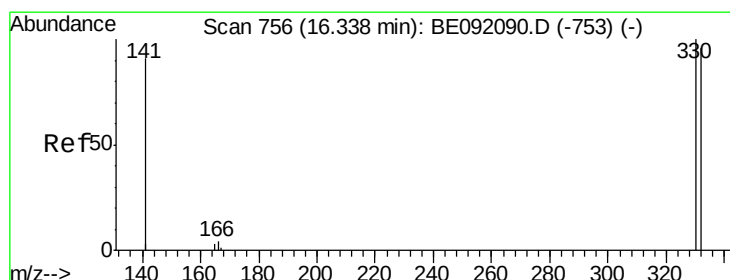
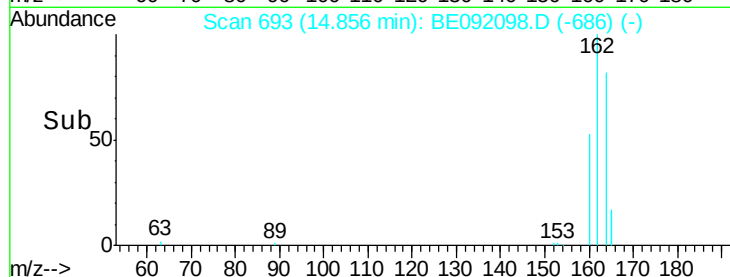
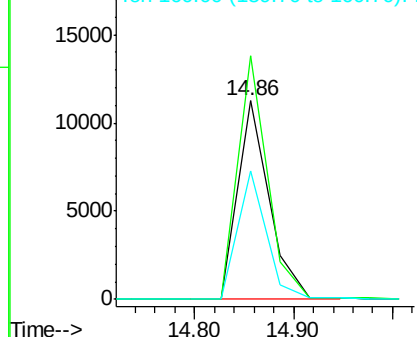
160 64.9 27.6 41.4#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#16

2,4,6-Tribromophenol

Concen: 6.11 ng

RT: 16.32 min Scan# 755

Delta R.T. -0.02 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

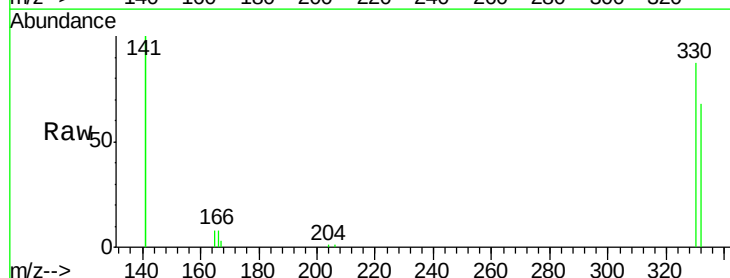
Tgt Ion:330 Resp: 10003

Ion Ratio Lower Upper

330 100

332 96.0 74.2 111.4

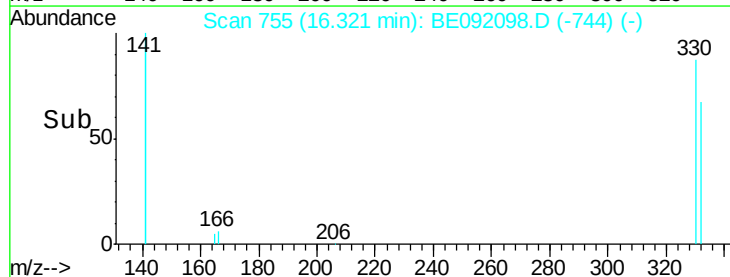
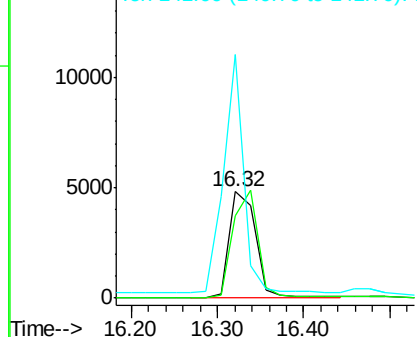
141 175.9 139.8 209.8

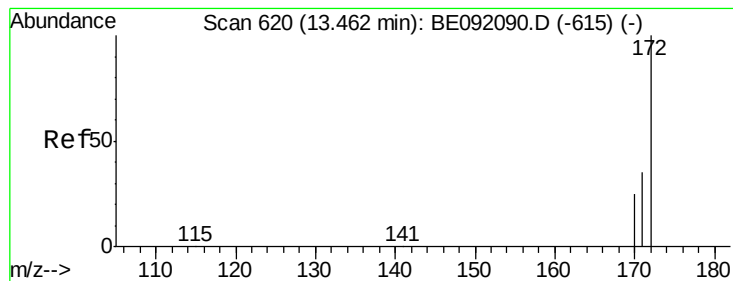


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

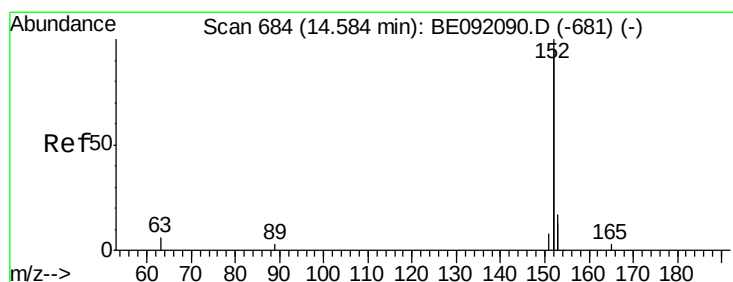
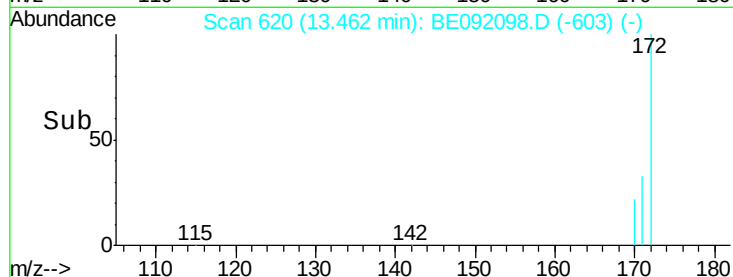
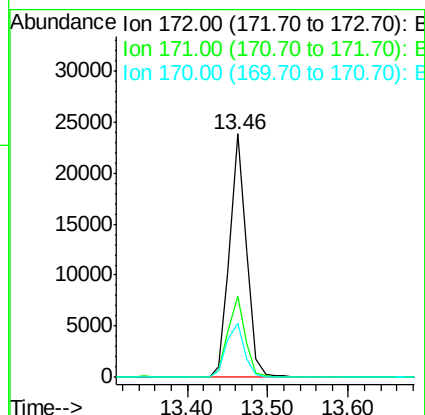
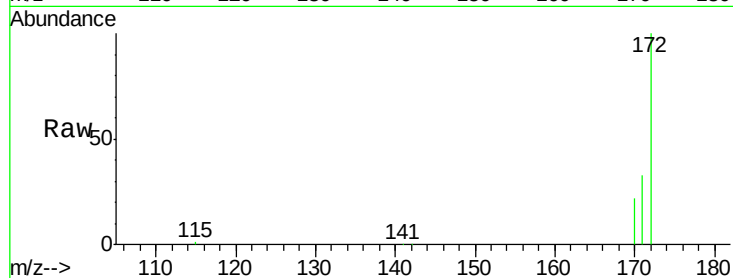




#17
2-Fluorobiphenyl
Concen: 3.58 ng
RT: 13.46 min Scan# 620
Delta R.T. 0.00 min
Lab File: BE092098.D
Acq: 1 Aug 2016 19:02

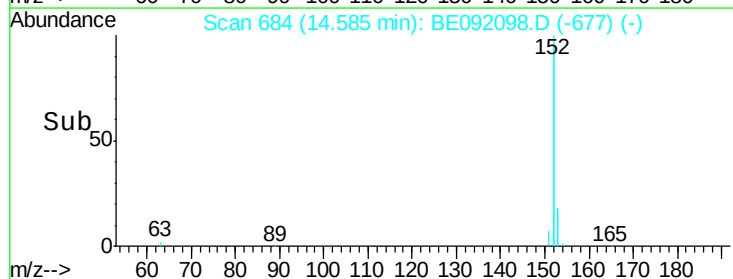
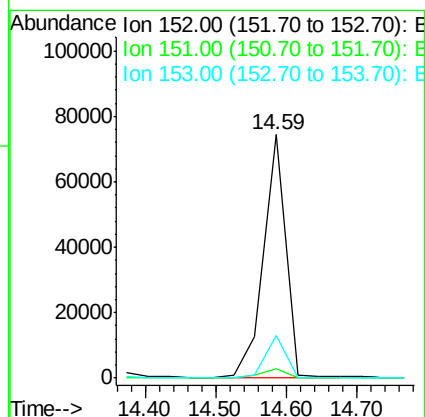
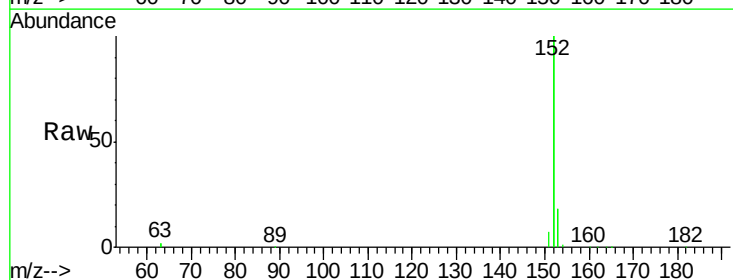
Instrument :
BNA_E
ClientSampleId :
PB92309BS

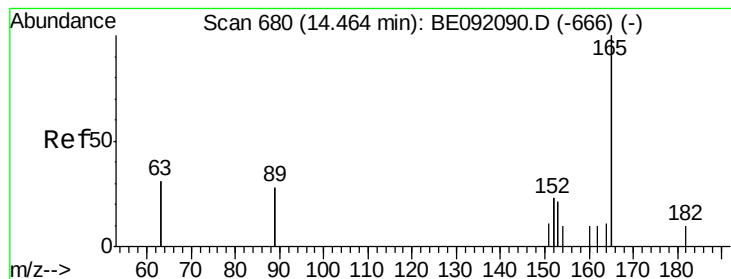
Tgt Ion:172 Resp: 34383
Ion Ratio Lower Upper
172 100
171 33.4 30.3 45.5
170 22.0 21.6 32.4



#18
Acenaphthylene
Concen: 2.90 ng
RT: 14.59 min Scan# 684
Delta R.T. 0.00 min
Lab File: BE092098.D
Acq: 1 Aug 2016 19:02

Tgt Ion:152 Resp: 159358
Ion Ratio Lower Upper
152 100
151 4.2 4.0 6.0
153 15.8 9.6 14.4#





#19

2,6-Dinitrotoluene

Concen: 3.16 ng

RT: 14.46 min Scan# 680

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampled :

PB92309BS

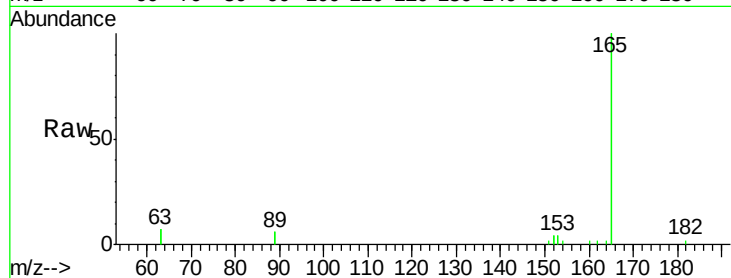
Tgt Ion:165 Resp: 20363

Ion Ratio Lower Upper

165 100

63 0.0 0.0 0.0

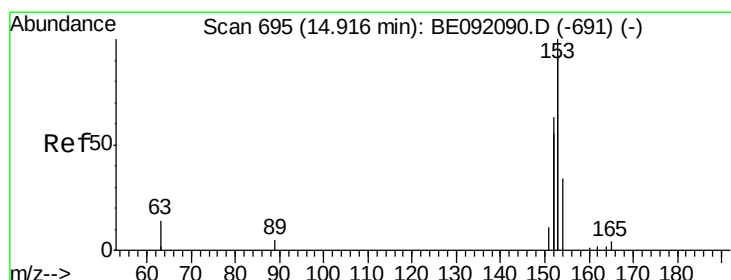
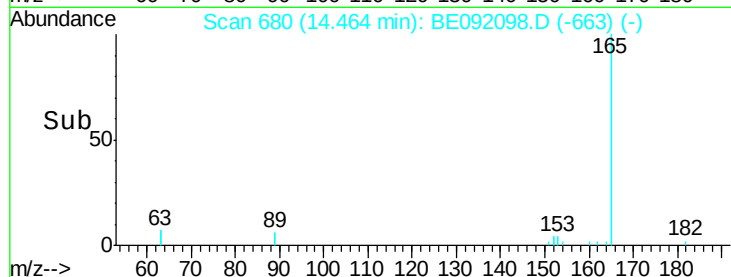
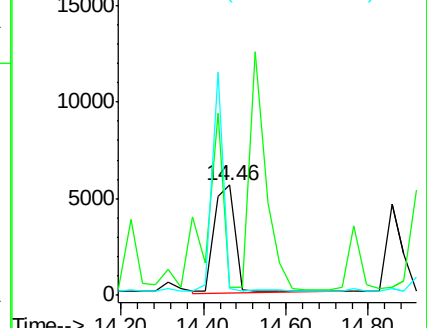
89 0.0 0.0 0.0



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



#20

Acenaphthene

Concen: 3.54 ng

RT: 14.92 min Scan# 695

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

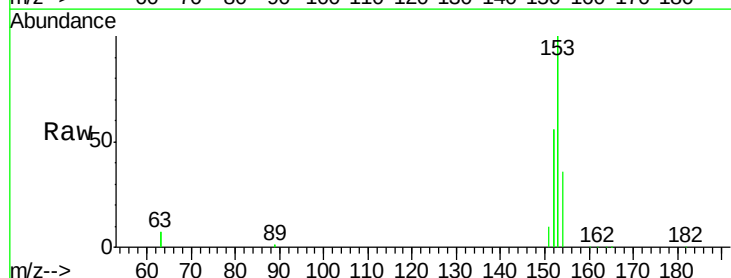
Tgt Ion:154 Resp: 26851

Ion Ratio Lower Upper

154 100

153 527.0 345.1 517.7#

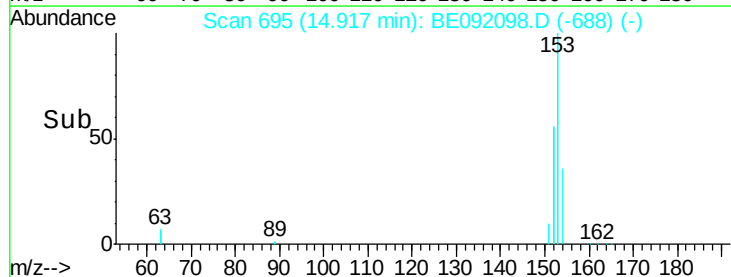
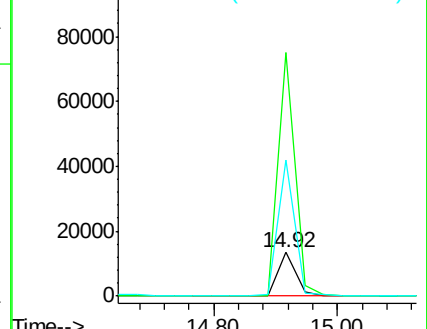
152 287.2 0.0 0.0#

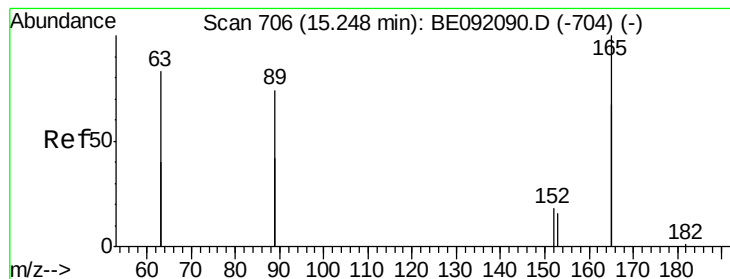


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#21

2,4-Dinitrotoluene

Concen: 3.09 ng

RT: 15.25 min Scan# 706

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

Tgt Ion:165 Resp: 32731

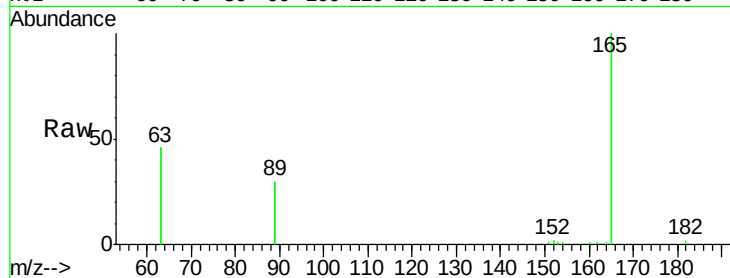
Ion Ratio Lower Upper

165 100

63 0.0 324.0 486.0#

89 0.0 308.4 462.6#

182 0.6 0.0 0.0#

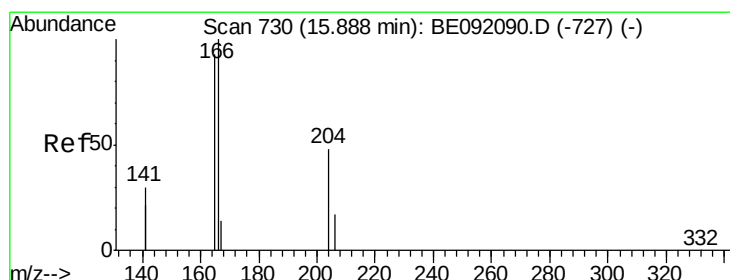
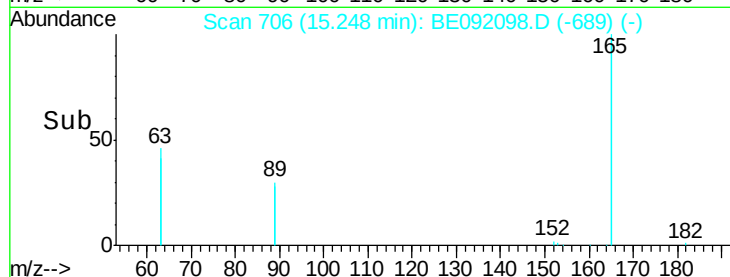
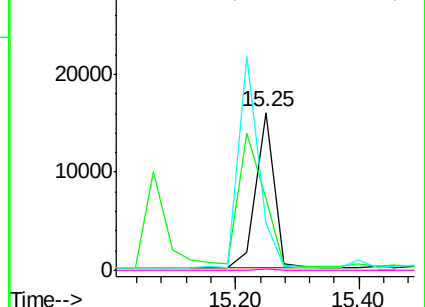


Abundance Ion 165.00 (164.70 to 165.70): E

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: 3.13 ng

RT: 15.89 min Scan# 730

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

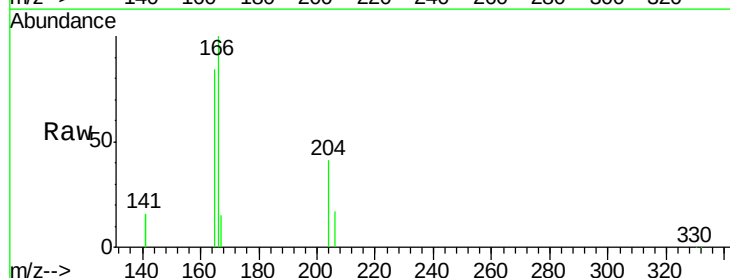
Tgt Ion:166 Resp: 35628

Ion Ratio Lower Upper

166 100

165 98.5 78.6 118.0

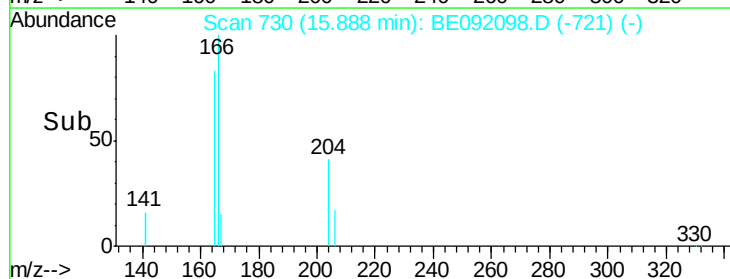
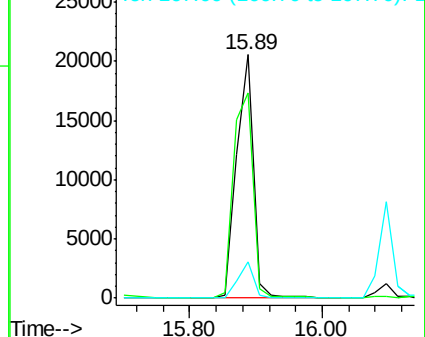
167 13.7 11.1 16.7

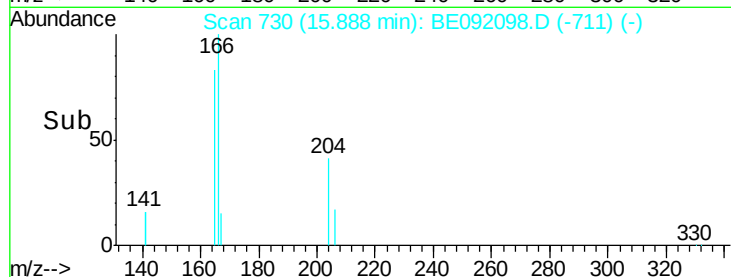
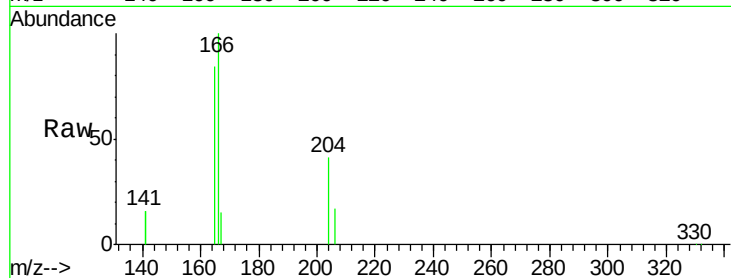
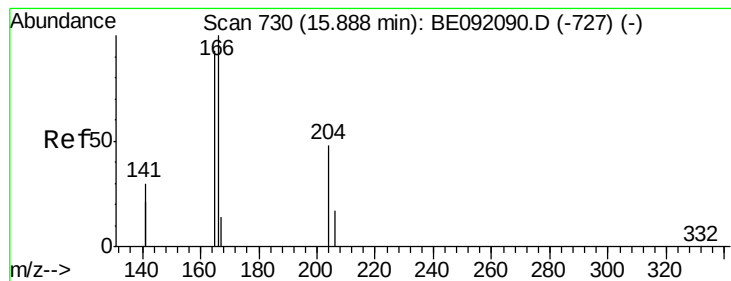


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#23

4-Chlorophenyl-phenylether

Concen: 2.84 ng

RT: 15.89 min Scan# 730

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Instrument :

BNA_E

ClientSampleId :

PB92309BS

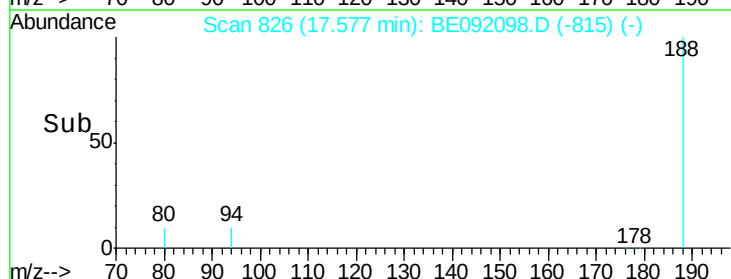
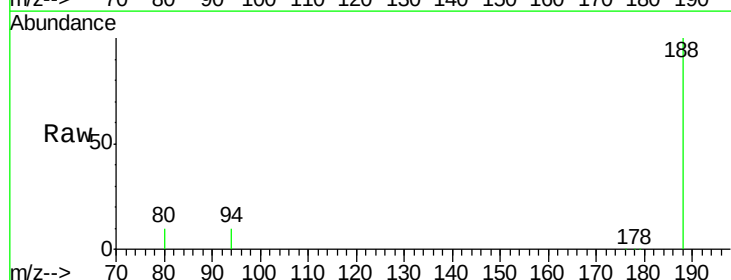
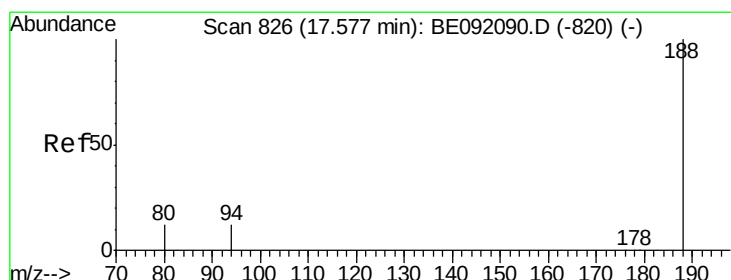
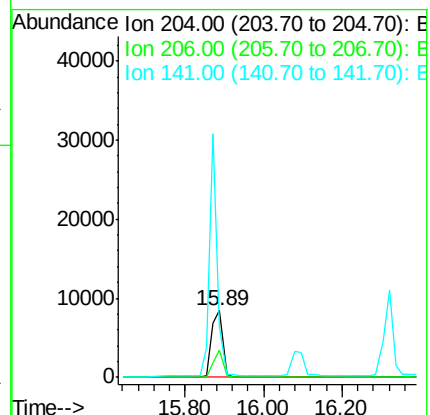
Tgt Ion:204 Resp: 16506

Ion Ratio Lower Upper

204 100

206 34.1 27.0 40.4

141 266.7 198.5 297.7



#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 826

Delta R.T. 0.00 min

Lab File: BE092098.D

Acq: 1 Aug 2016 19:02

Tgt Ion:188 Resp: 86188

Ion Ratio Lower Upper

188 100

94 10.2 3.9 5.9#

80 9.9 3.4 5.0#

