

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020415\
 Data File : BE089494.D
 Acq On : 4 Feb 2015 13:18
 Operator : TP/IZ
 Sample : PB81495BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

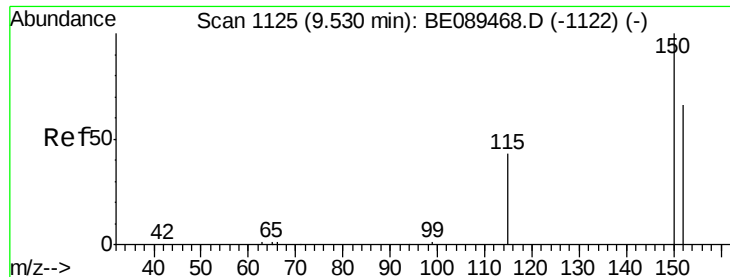
Quant Time: Feb 04 17:30:17 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 04 00:53:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.53	152	81668	5.00	ng	0.00
7) Naphthalene-d8	12.43	136	328936	5.00	ng	0.00
13) Acenaphthene-d10	16.62	164	156487	5.00	ng	0.00
17) Phenanthrene-d10	19.94	188	266188	5.00	ng	0.00
20) Chrysene-d12	23.79	240	248691	5.00	ng	0.00
27) Perylene-d12	25.49	264	238825	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.75	112	185557	7.03	ng	0.03
4) Phenol-d6	8.88	99	242203	7.31	ng	0.04
8) Nitrobenzene-d5	10.80	82	147232	5.92	ng	0.01
14) 2,4,6-Tribromophenol	18.53	330	43525	6.48	ng	0.02
15) 2-Fluorobiphenyl	15.07	172	221299	5.37	ng	0.00
22) Terphenyl-d14	22.43	244	238205	6.76	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.54	42	79955	4.85	ng	# 83
5) Phenol	8.83	94	13935	0.38	ng	# 1
6) bis(2-Chloroethyl)ether	9.01	93	135032	5.15	ng	# 100
9) Nitrobenzene	10.85	77	153863	5.40	ng	99
10) 2,4-Dimethylphenol	11.80	122	90757	4.41	ng	96
11) 2,4-Dichlorophenol	12.18	162	80698	5.31	ng	83
12) Hexachlorobutadiene	12.81	225	49545	4.87	ng	98
16) 2,4-Dinitrophenol	16.86	184	13374	6.43	ng	# 71
18) Hexachlorobenzene	19.18	284	74398	5.40	ng	98
19) Pentachlorophenol	19.62	266	35189	7.77	ng	99
21) Benzidine	22.10	184	323463	26.05	ng	99
23) Benzo(a)anthracene	23.77	228	1272978	5.76	ng	92
24) 3,3'-Dichlorobenzidine	23.77	252	121429	5.86	ng	# 95
25) Chrysene	23.83	228	1256998	5.46	ng	98
26) Indeno(1,2,3-cd)pyrene	26.98	276	369005	5.71	ng	99
28) Benzo(b)fluoranthene	25.05	252	304937	5.63	ng	98
29) Benzo(k)fluoranthene	25.08	252	329308	5.32	ng	98
30) Benzo(a)pyrene	25.43	252	306881	5.80	ng	97
31) Dibenzo(a,h)anthracene	27.01	278	329020	5.86	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.53 min Scan# 1125

Delta R.T. -0.00 min

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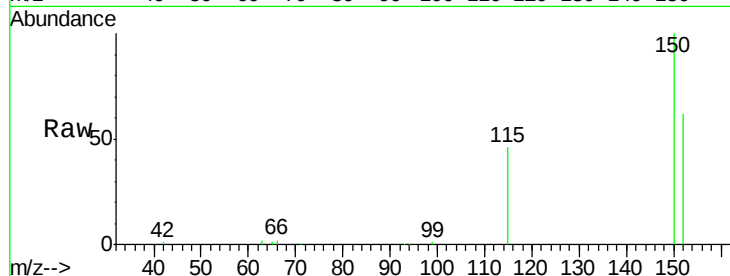
Tgt Ion:152 Resp: 81668

Ion Ratio Lower Upper

152 100

150 162.3 122.1 183.1

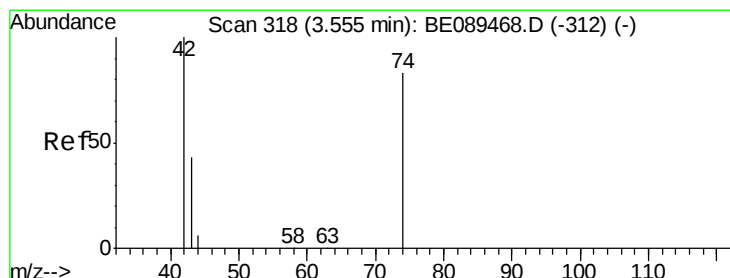
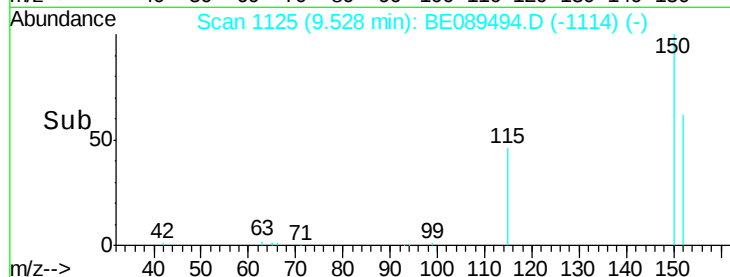
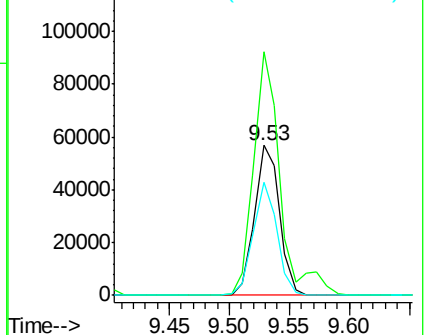
115 75.2 53.2 79.8



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

n-Nitrosodimethylamine

Concen: 4.85 ng

RT: 3.54 min Scan# 316

Delta R.T. -0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

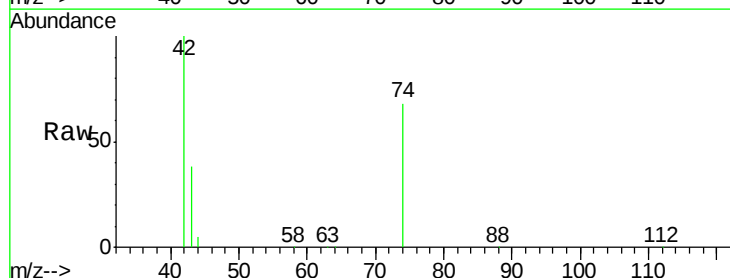
Tgt Ion: 42 Resp: 79955

Ion Ratio Lower Upper

42 100

74 67.9 65.4 98.2

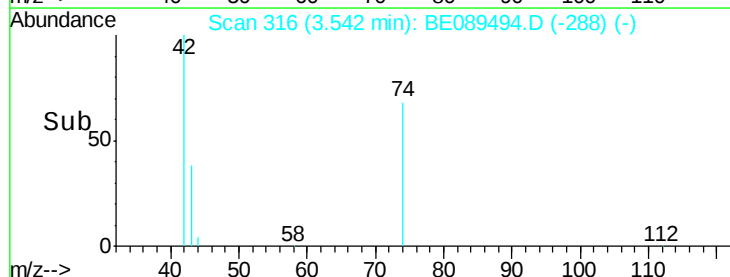
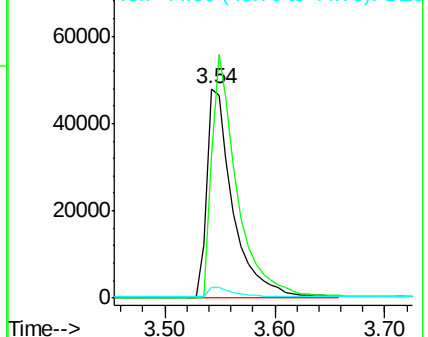
44 4.8 11.7 17.5#

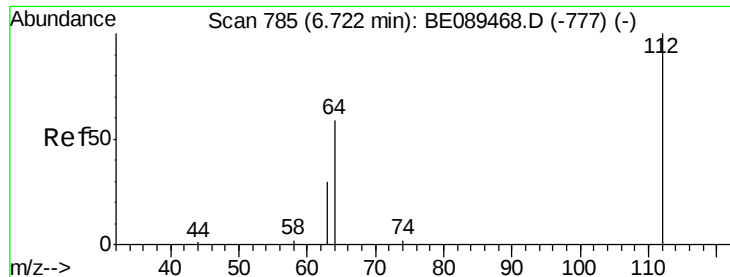


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

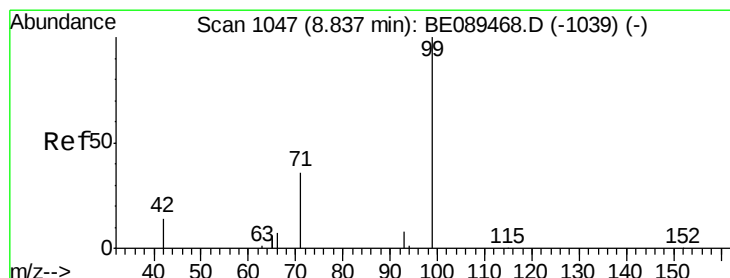
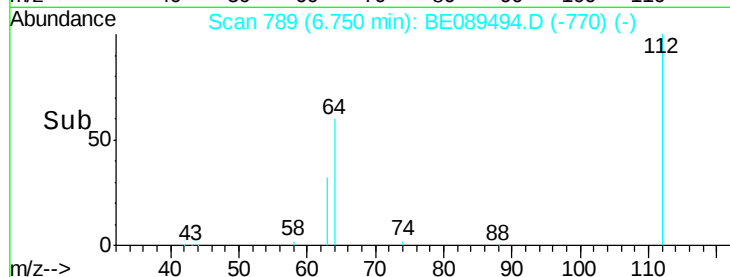
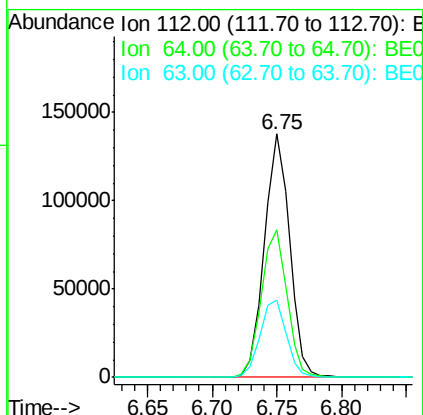
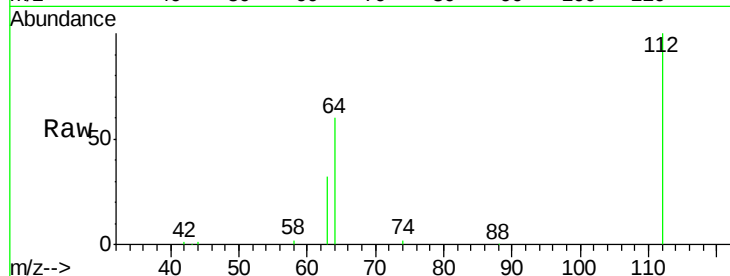




#3
 2-Fluorophenol
 Concen: 7.03 ng
 RT: 6.75 min Scan# 789
 Delta R.T. 0.03 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

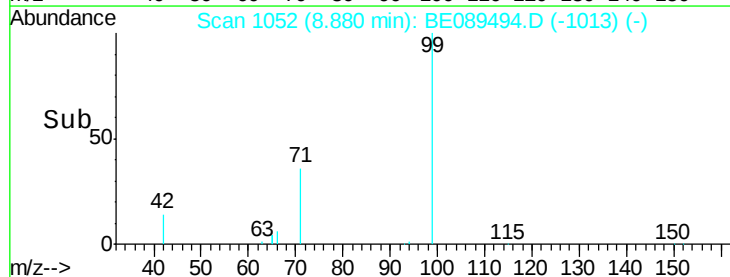
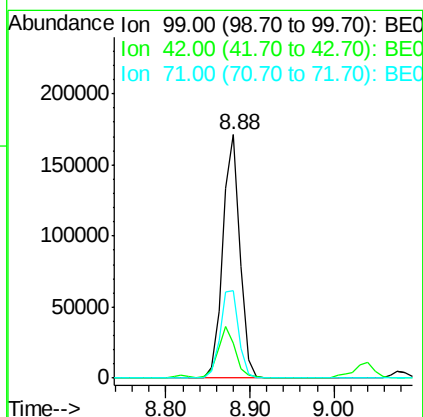
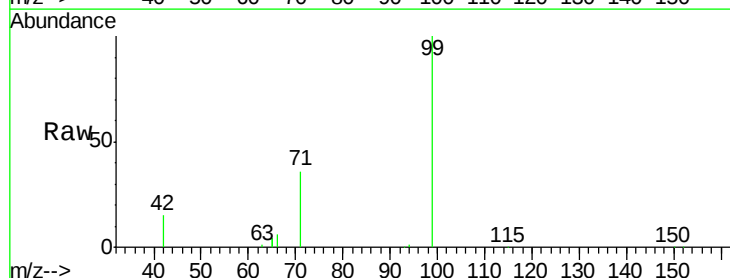
Instrument :
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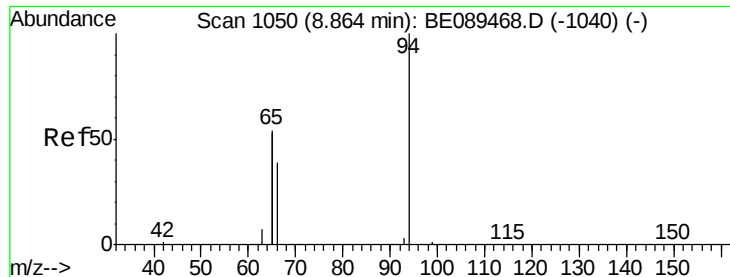
Tgt Ion: 112 Resp: 185557
 Ion Ratio Lower Upper
 112 100
 64 60.5 47.0 70.6
 63 31.9 24.2 36.2



#4
 Phenol-d6
 Concen: 7.31 ng
 RT: 8.88 min Scan# 1052
 Delta R.T. 0.04 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

Tgt Ion: 99 Resp: 242203
 Ion Ratio Lower Upper
 99 100
 42 14.5 11.8 17.6
 71 36.2 28.7 43.1





#5

Phenol

Concen: 0.38 ng

RT: 8.83 min Scan# 1046

Delta R.T. -0.04 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS

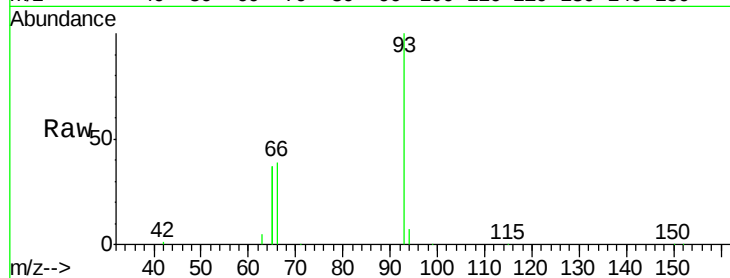
Tgt Ion: 94 Resp: 13935

Ion Ratio Lower Upper

94 100

65 1028.1 33.9 73.9#

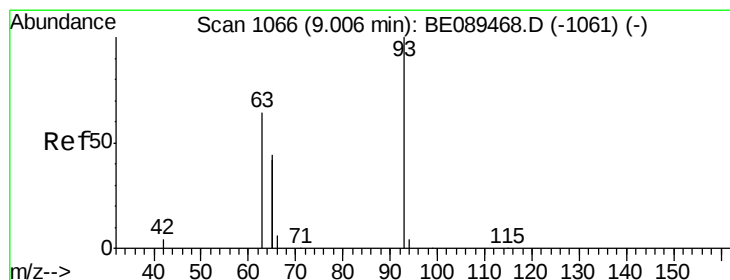
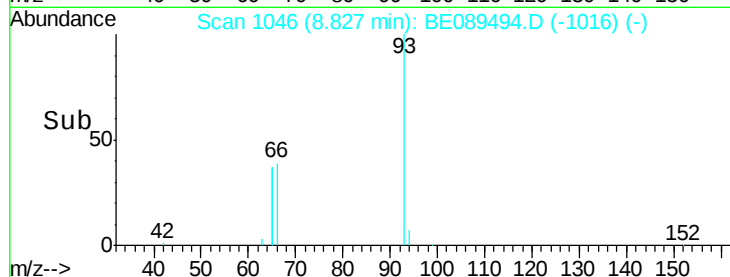
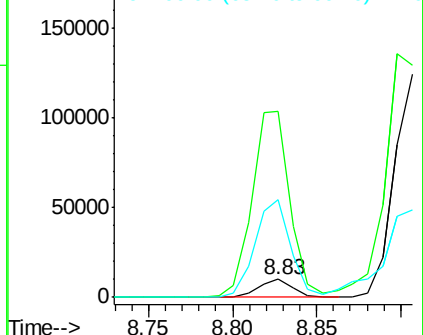
66 542.5 19.1 59.1#



Abundance Ion 94.00 (93.70 to 94.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

Ion 66.00 (65.70 to 66.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 5.15 ng

RT: 9.01 min Scan# 1067

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

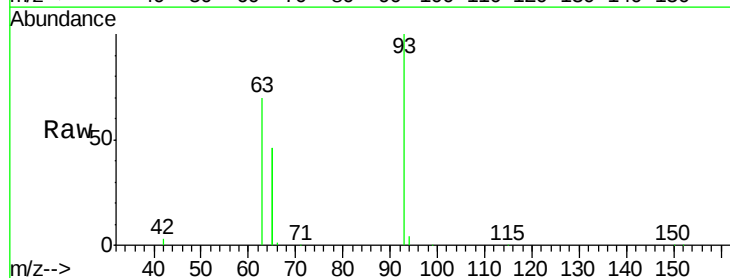
Tgt Ion: 93 Resp: 135032

Ion Ratio Lower Upper

93 100

63 71.2 57.0 85.6

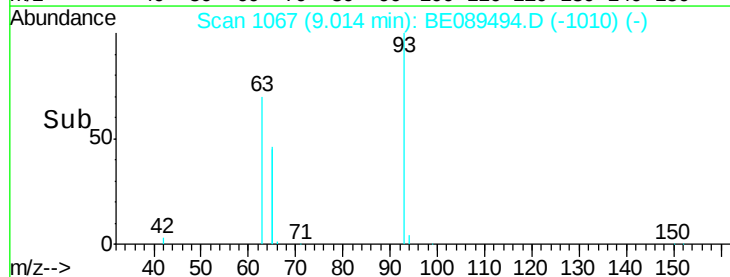
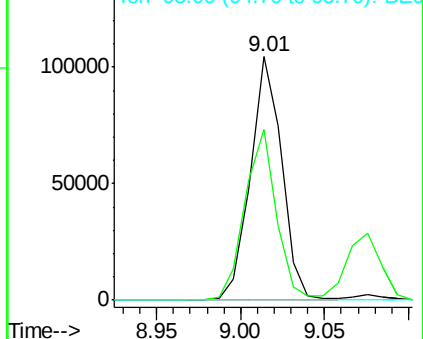
95 0.0 0.0 0.0

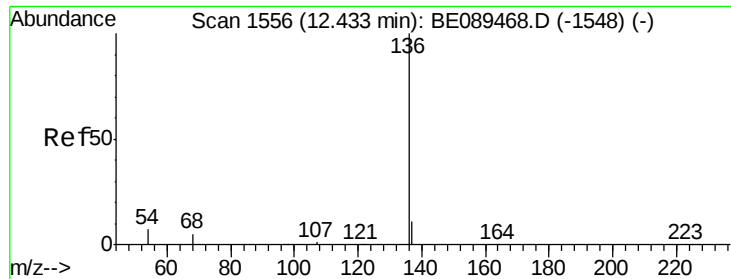


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.43 min Scan# 1556

Delta R.T. 0.00 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

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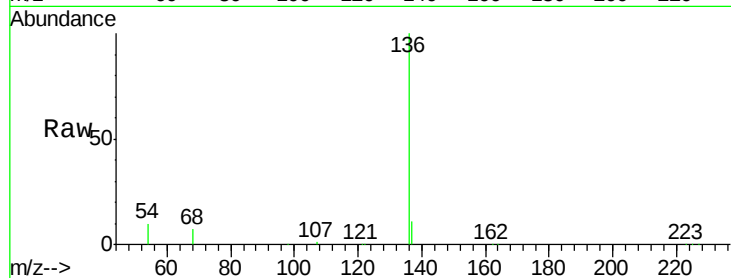
Tgt Ion: 136 Resp: 328936

Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

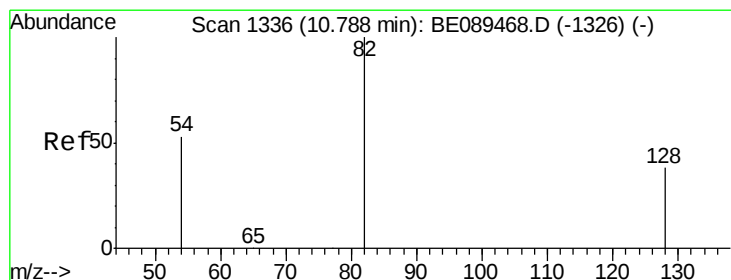
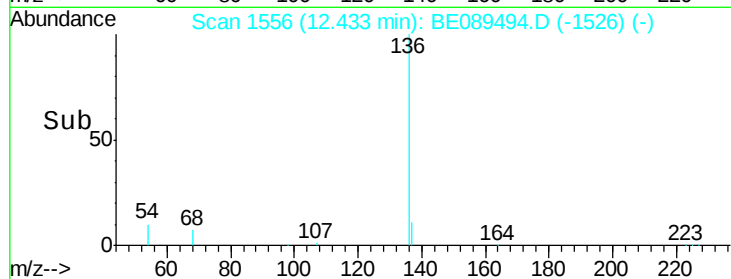
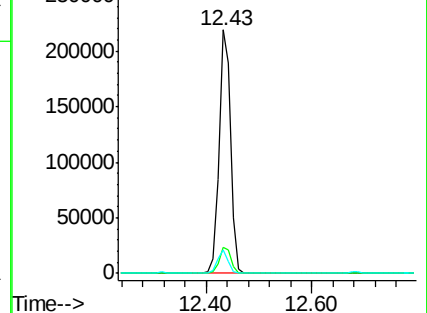
54 9.6 5.4 8.0#



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



#8

Nitrobenzene-d5

Concen: 5.92 ng

RT: 10.80 min Scan# 1339

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

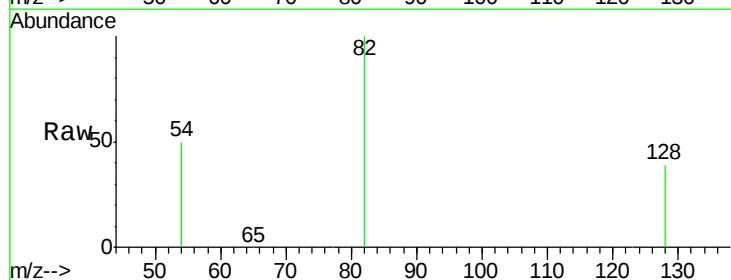
Tgt Ion: 82 Resp: 147232

Ion Ratio Lower Upper

82 100

128 39.3 30.3 45.5

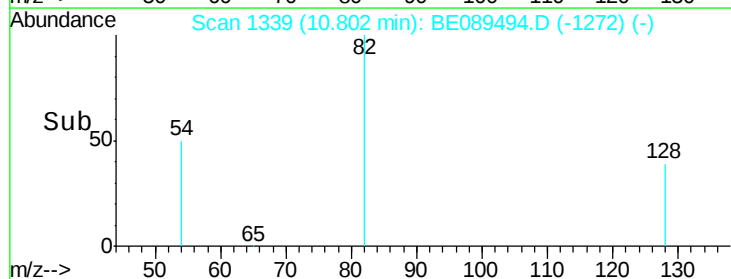
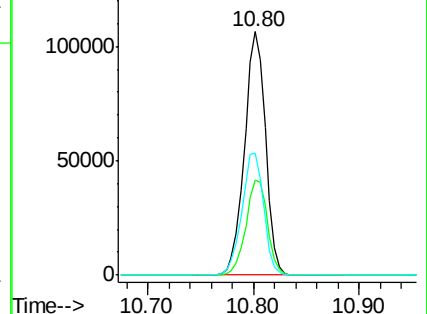
54 49.9 43.1 64.7

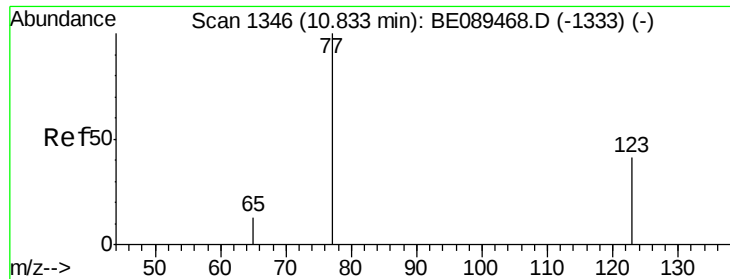


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 5.40 ng

RT: 10.85 min Scan# 1349

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS

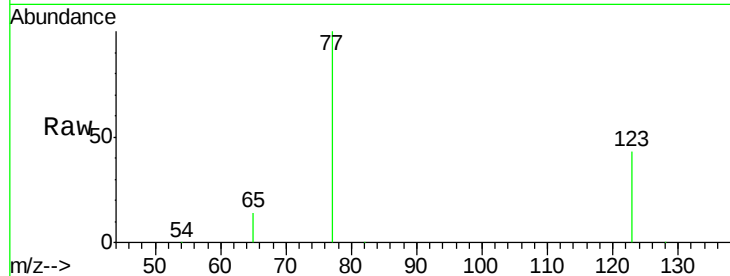
Tgt Ion: 77 Resp: 153863

Ion Ratio Lower Upper

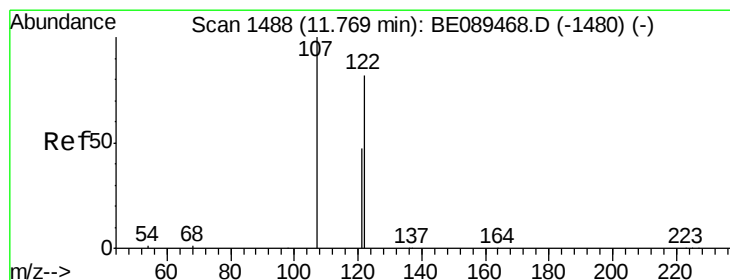
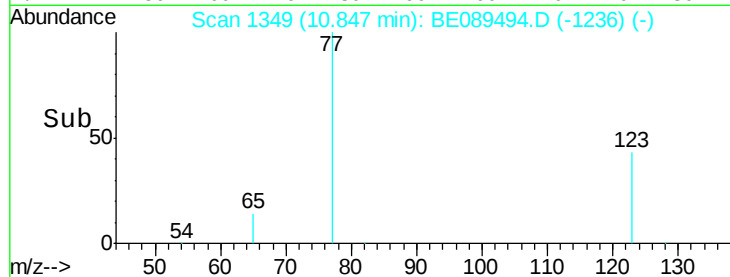
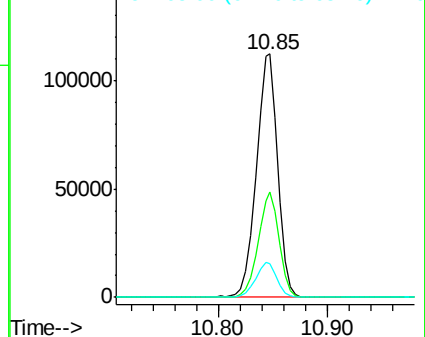
77 100

123 42.0 33.4 50.0

65 14.3 10.9 16.3



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



#10

2,4-Dimethylphenol

Concen: 4.41 ng

RT: 11.80 min Scan# 1491

Delta R.T. 0.03 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

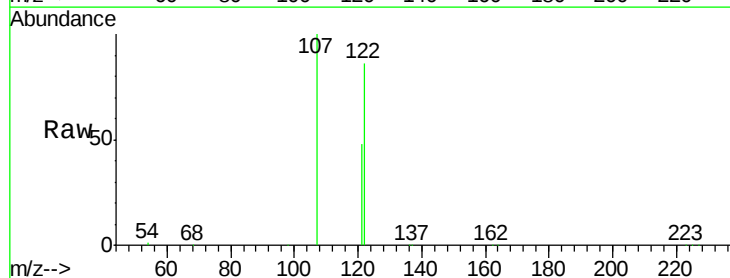
Tgt Ion: 122 Resp: 90757

Ion Ratio Lower Upper

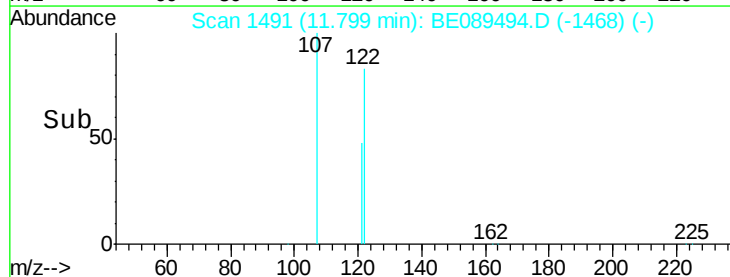
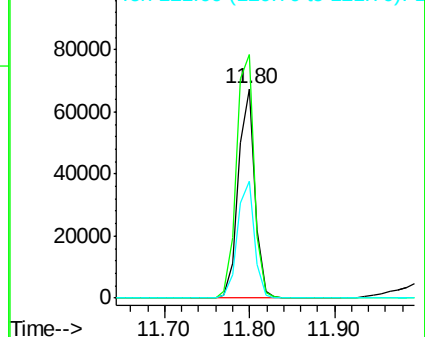
122 100

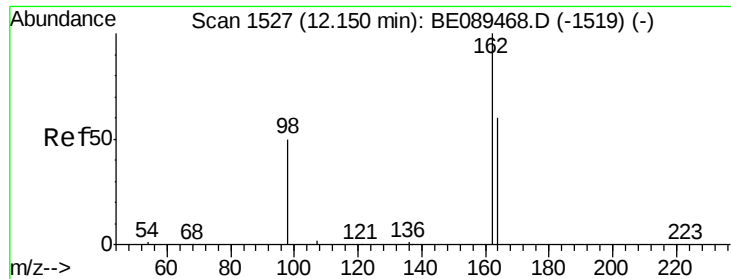
107 116.4 97.3 145.9

121 55.9 46.4 69.6



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E

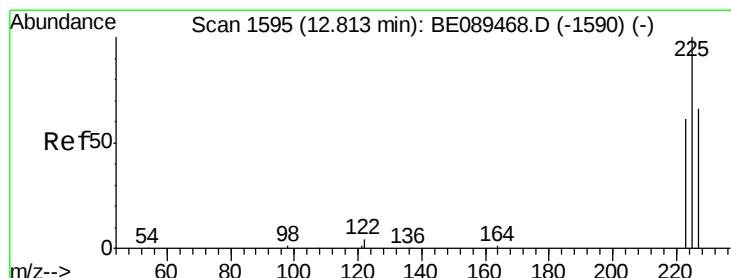
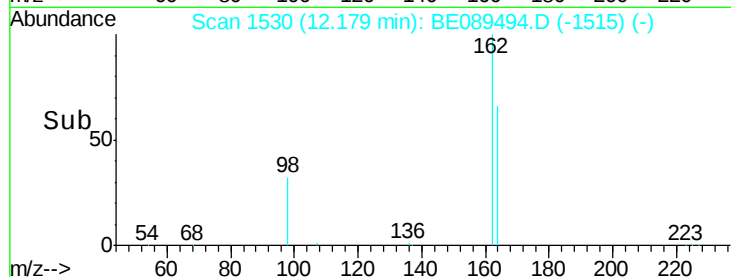
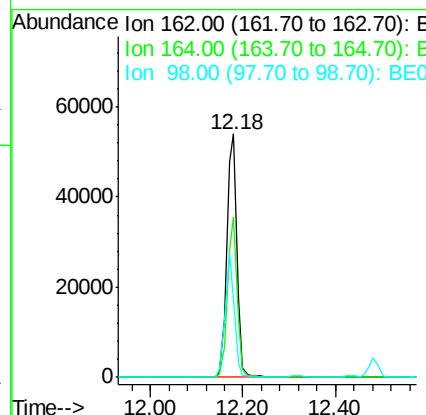
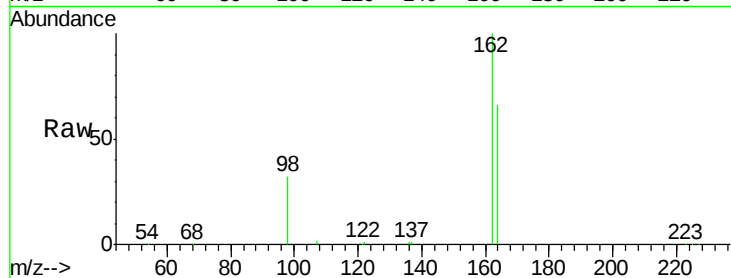




#11
 2,4-Dichlorophenol
 Concen: 5.31 ng
 RT: 12.18 min Scan# 1530
 Delta R.T. 0.03 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

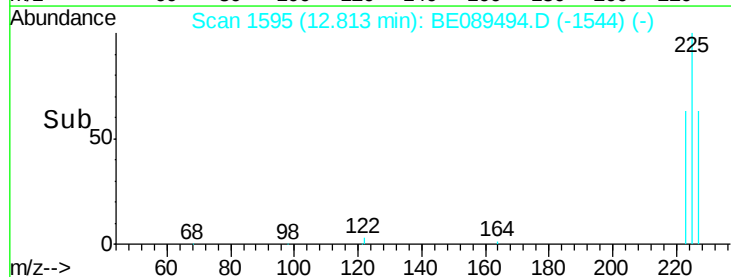
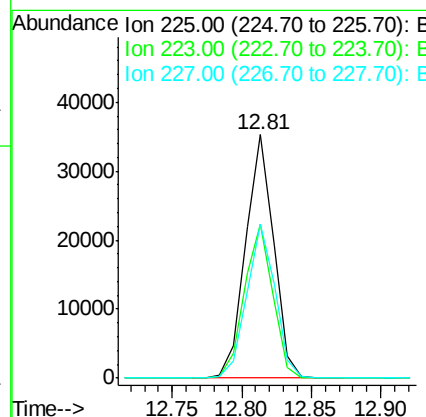
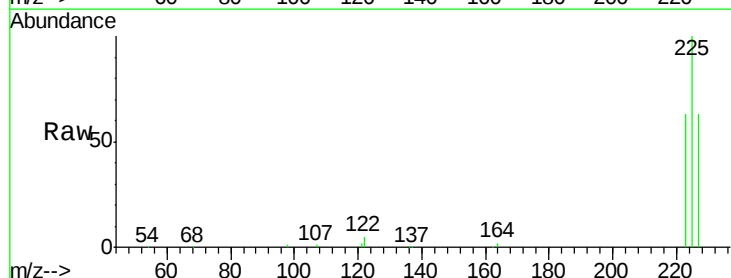
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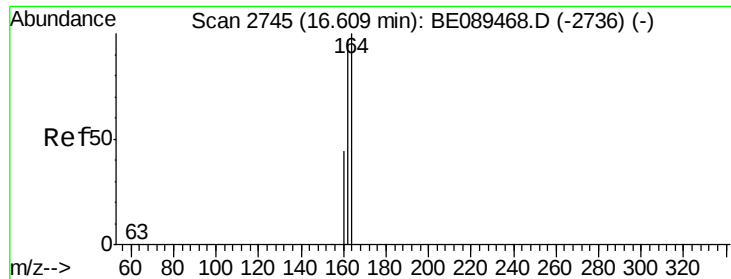
Tgt Ion:162 Resp: 80698
 Ion Ratio Lower Upper
 162 100
 164 65.7 39.9 79.9
 98 32.3 31.3 71.3



#12
 Hexachlorobutadiene
 Concen: 4.87 ng
 RT: 12.81 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

Tgt Ion:225 Resp: 49545
 Ion Ratio Lower Upper
 225 100
 223 63.8 49.4 74.0
 227 63.7 51.2 76.8





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.62 min Scan# 2746

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampled :

PB81495BS

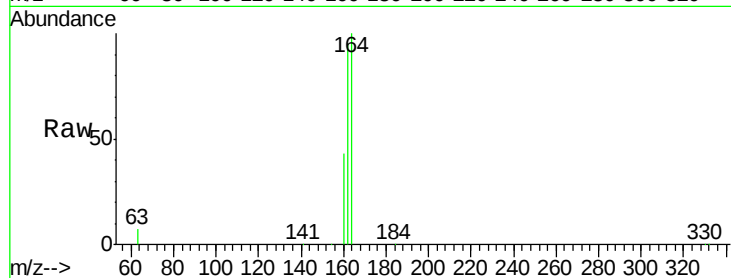
Tgt Ion:164 Resp: 156487

Ion Ratio Lower Upper

164 100

162 95.2 77.6 116.4

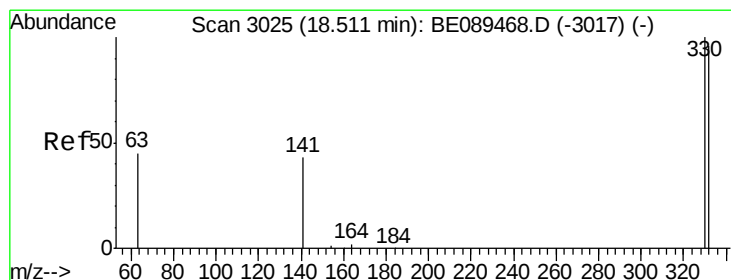
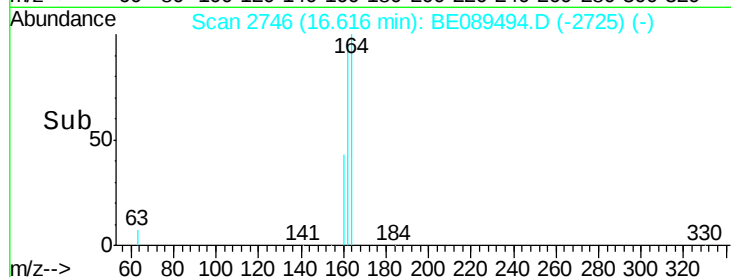
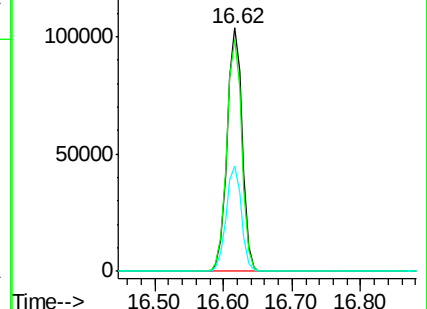
160 43.5 35.6 53.4



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



#14

2,4,6-Tribromophenol

Concen: 6.48 ng

RT: 18.53 min Scan# 3028

Delta R.T. 0.02 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

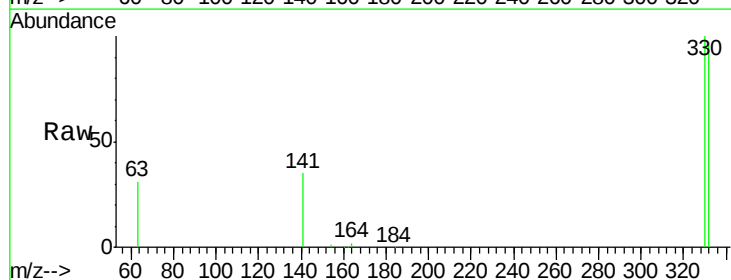
Tgt Ion:330 Resp: 43525

Ion Ratio Lower Upper

330 100

332 95.4 78.0 117.0

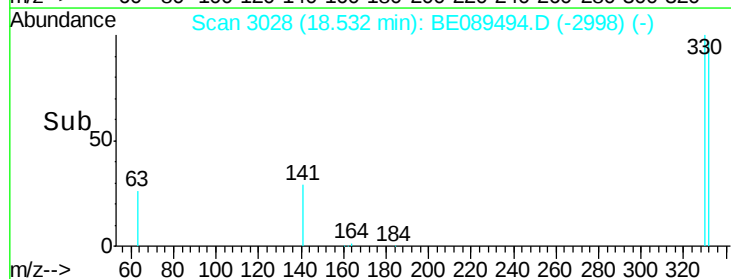
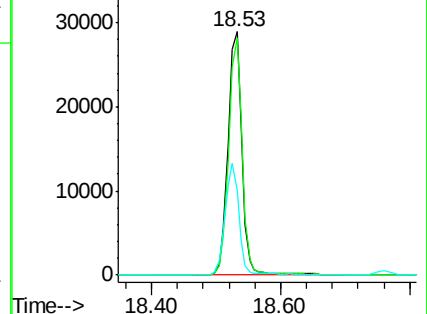
141 44.3 33.8 50.6

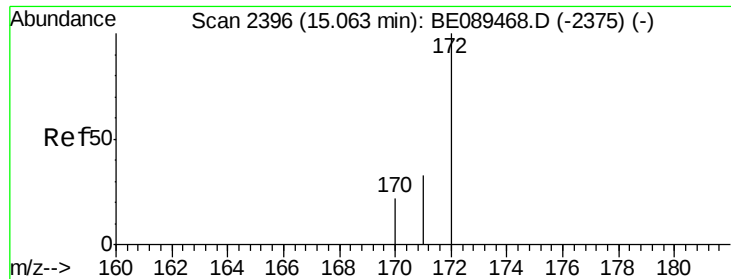


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

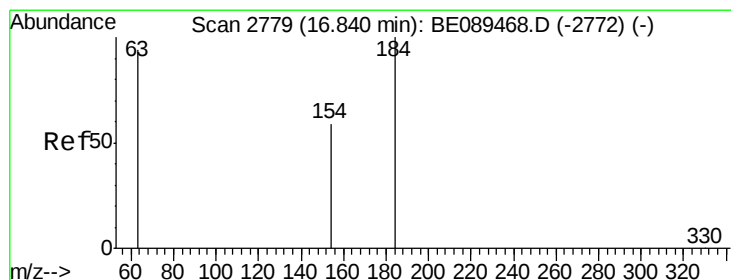
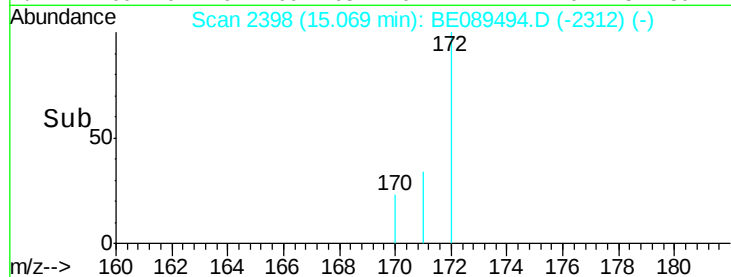
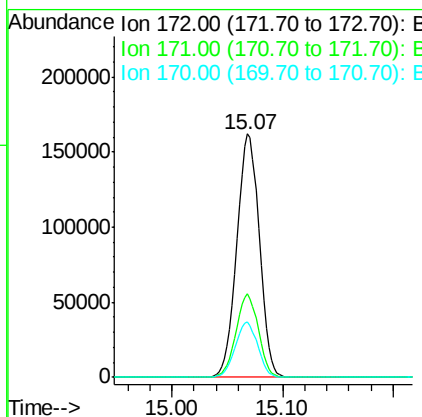
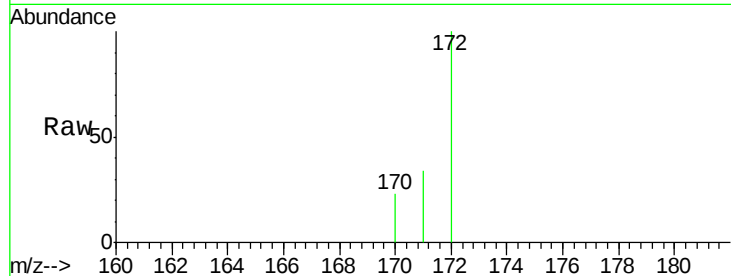




#15
2-Fluorobiphenyl
Concen: 5.37 ng
RT: 15.07 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BE089494.D
Acq: 4 Feb 2015 13:18

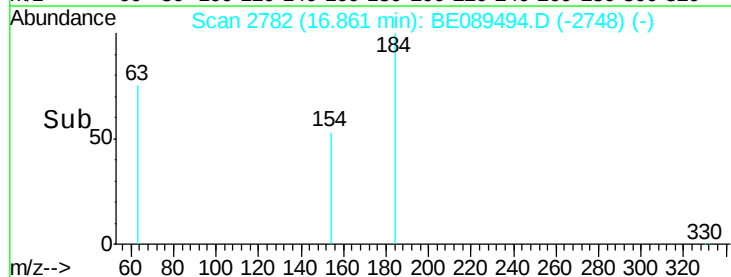
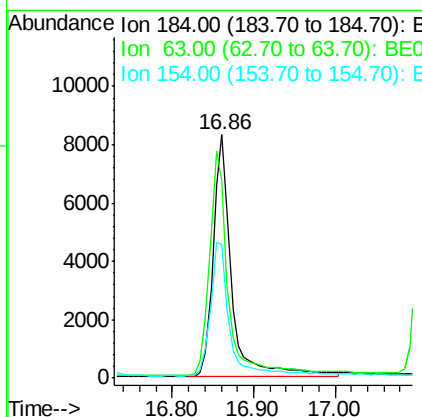
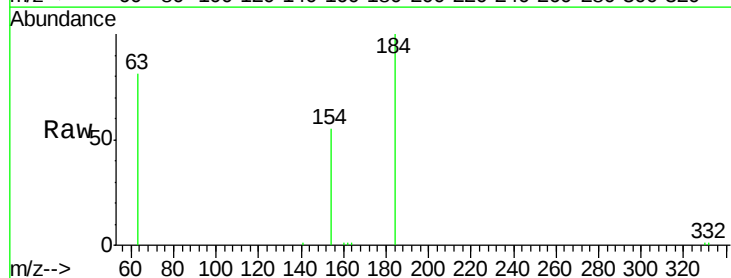
Instrument :
BNA_E
ClientSampleId :
PB81495BS

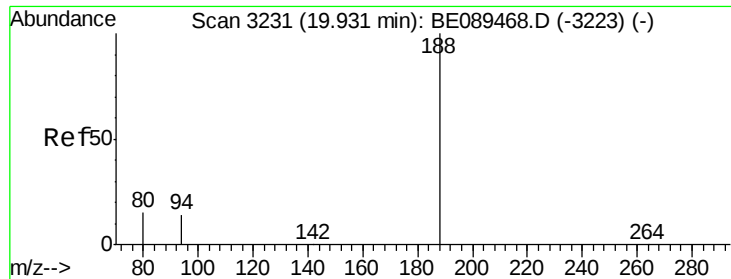
Tgt Ion:172 Resp: 221299
Ion Ratio Lower Upper
172 100
171 34.2 26.8 40.2
170 22.8 17.7 26.5



#16
2,4-Dinitrophenol
Concen: 6.43 ng
RT: 16.86 min Scan# 2782
Delta R.T. 0.02 min
Lab File: BE089494.D
Acq: 4 Feb 2015 13:18

Tgt Ion:184 Resp: 13374
Ion Ratio Lower Upper
184 100
63 81.0 92.1 138.1#
154 54.7 61.4 92.2#

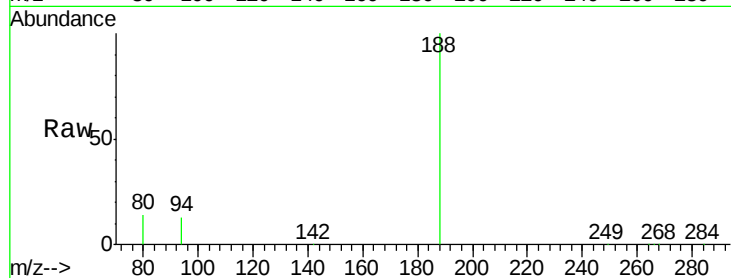




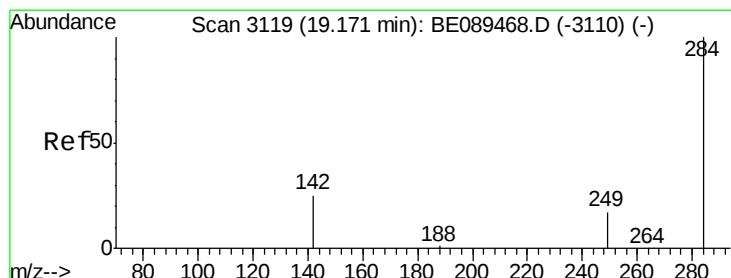
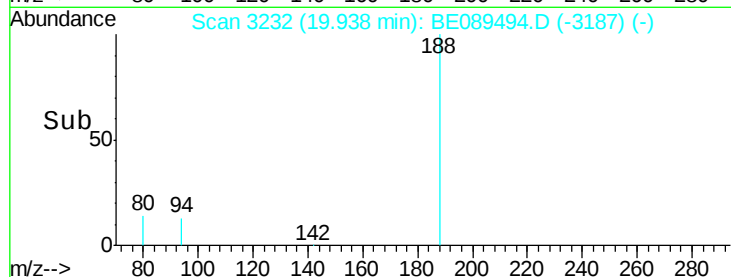
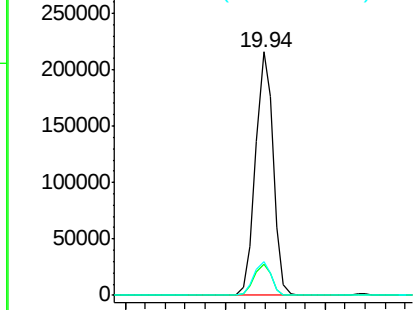
#17
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.94 min Scan# 3232
 Delta R.T. 0.01 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Tgt Ion:188 Resp: 266188
 Ion Ratio Lower Upper
 188 100
 94 12.9 11.1 16.7
 80 14.1 11.8 17.6

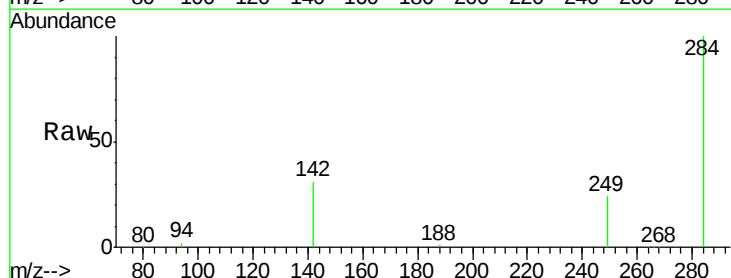


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BE0
 Ion 80.00 (79.70 to 80.70): BE0

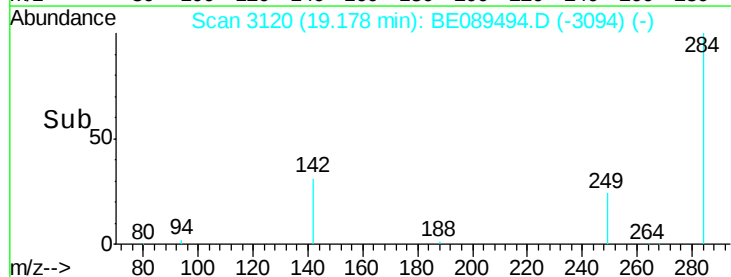
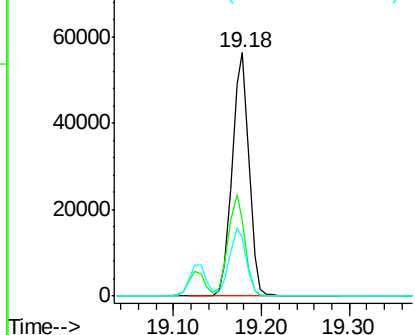


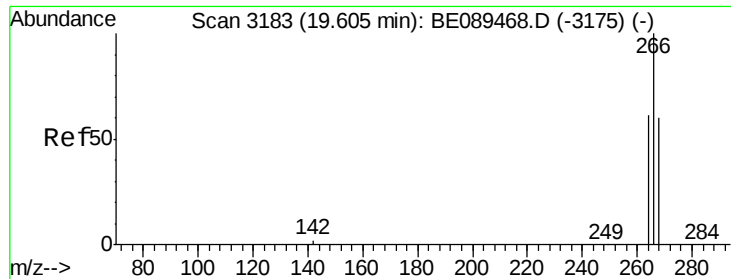
#18
 Hexachlorobenzene
 Concen: 5.40 ng
 RT: 19.18 min Scan# 3120
 Delta R.T. 0.01 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

Tgt Ion:284 Resp: 74398
 Ion Ratio Lower Upper
 284 100
 142 31.4 24.4 36.6
 249 24.1 18.2 27.2



Abundance Ion 284.00 (283.70 to 284.70): E
 Ion 142.00 (141.70 to 142.70): E
 Ion 249.00 (248.70 to 249.70): E





#19

Pentachlorophenol

Concen: 7.77 ng

RT: 19.62 min Scan# 3185

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS

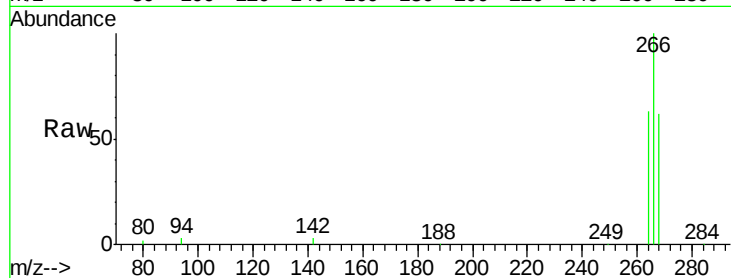
Tgt Ion:266 Resp: 35189

Ion Ratio Lower Upper

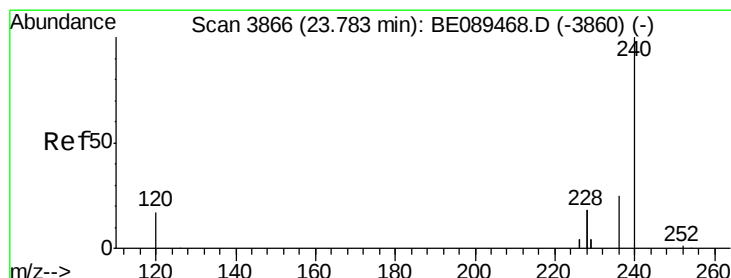
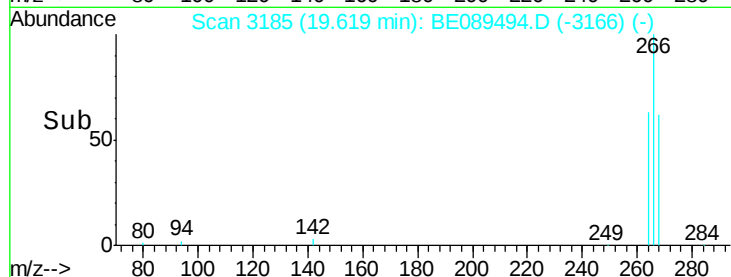
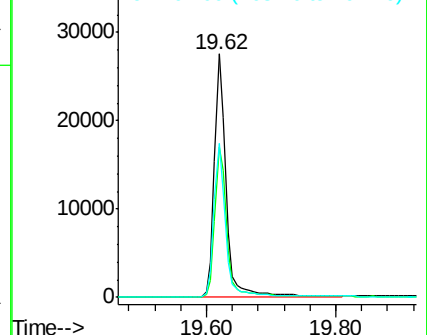
266 100

268 61.6 50.0 75.0

264 63.1 50.6 75.8



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



#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.79 min Scan# 3866

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

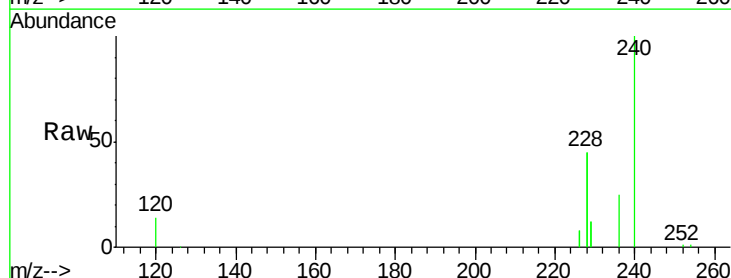
Tgt Ion:240 Resp: 248691

Ion Ratio Lower Upper

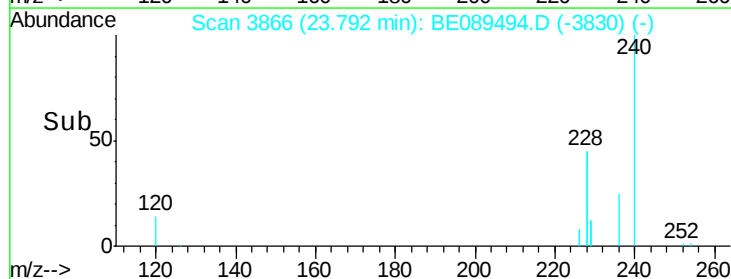
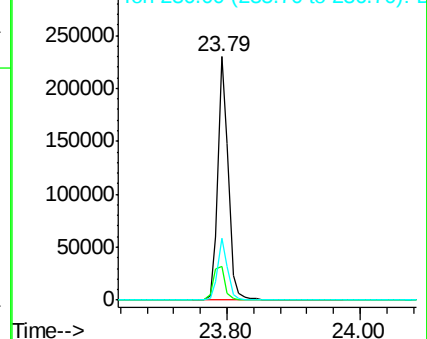
240 100

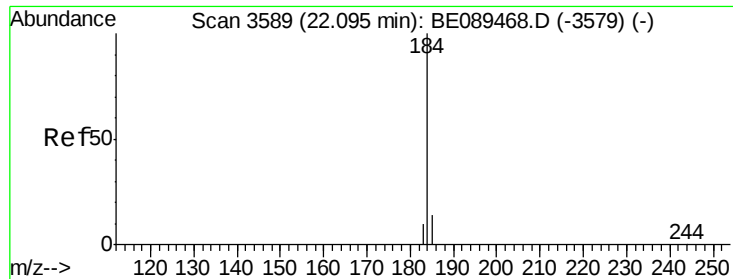
120 13.7 13.8 20.6#

236 25.3 20.2 30.2



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





#21

Benzidine

Concen: 26.05 ng

RT: 22.10 min Scan# 3591

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS

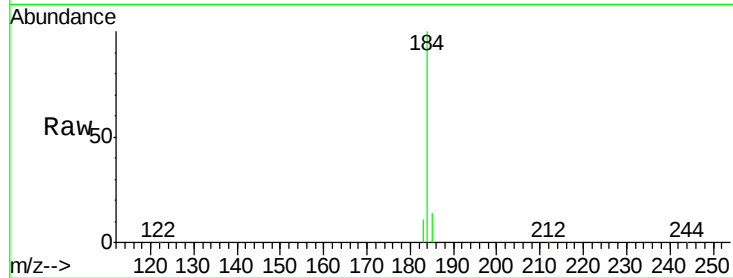
Tgt Ion:184 Resp: 323463

Ion Ratio Lower Upper

184 100

185 14.1 12.0 18.0

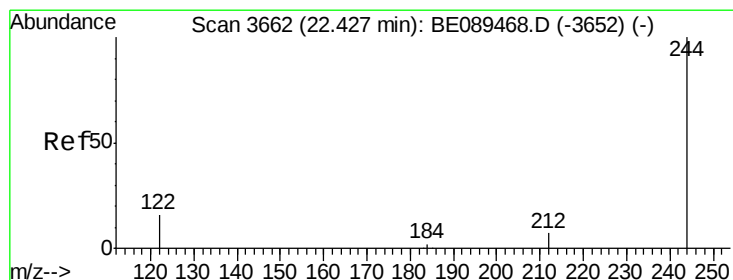
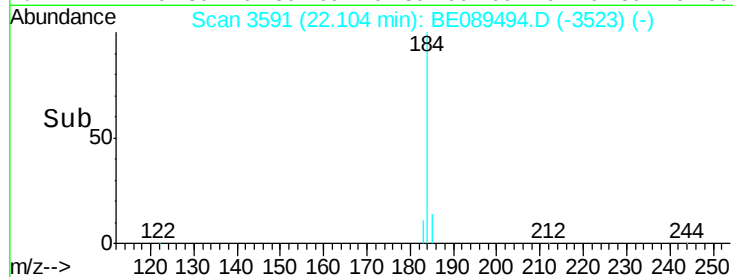
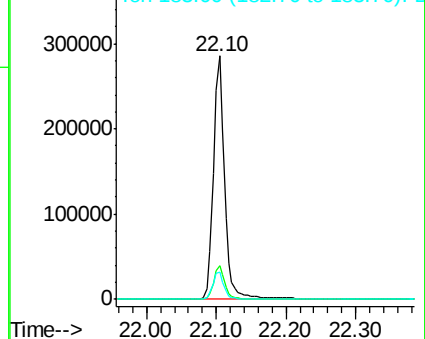
183 11.3 9.0 13.4



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



#22

Terphenyl-d14

Concen: 6.76 ng

RT: 22.43 min Scan# 3663

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

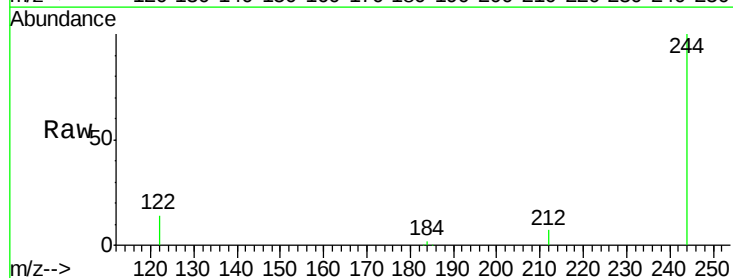
Tgt Ion:244 Resp: 238205

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

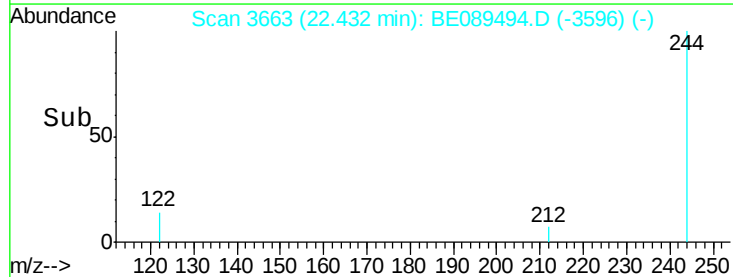
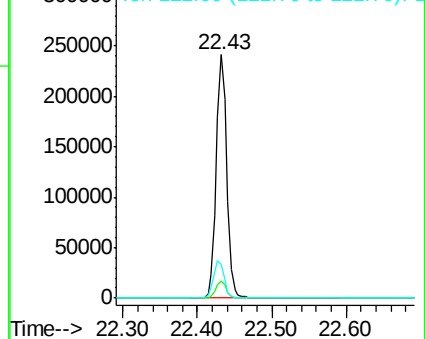
122 13.9 12.6 19.0

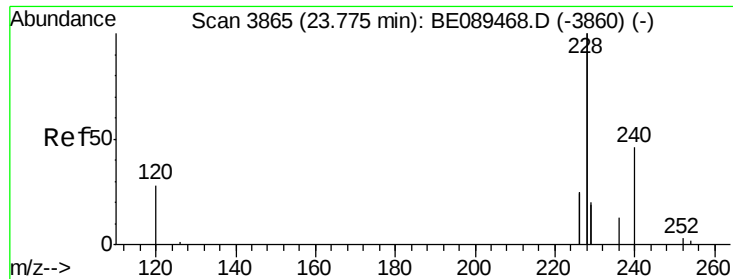


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 5.76 ng

RT: 23.77 min Scan# 3864

Delta R.T. 0.00 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampled :

PB81495BS

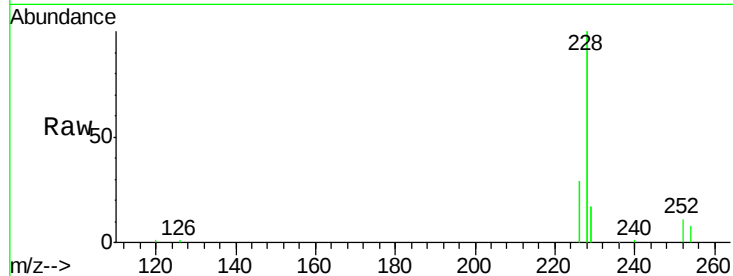
Tgt Ion:228 Resp: 1272978

Ion Ratio Lower Upper

228 100

226 29.4 19.6 29.4

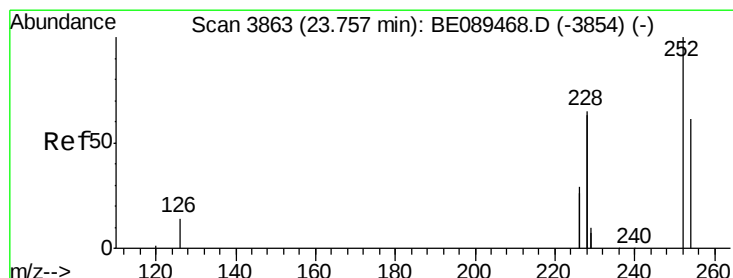
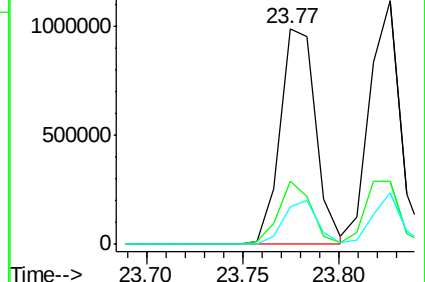
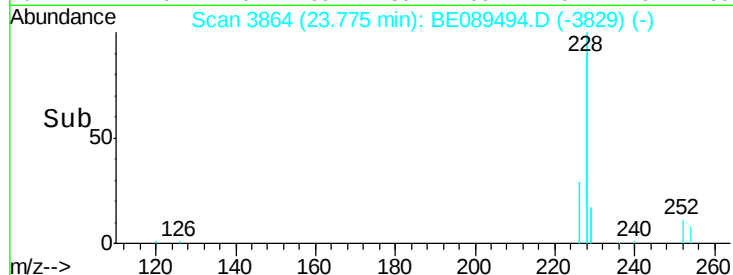
229 17.4 15.9 23.9



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



#24

3,3'-Dichlorobenzidine

Concen: 5.86 ng

RT: 23.77 min Scan# 3863

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

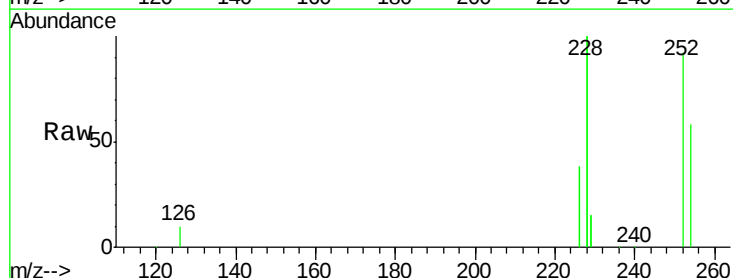
Tgt Ion:252 Resp: 121429

Ion Ratio Lower Upper

252 100

254 62.9 48.6 73.0

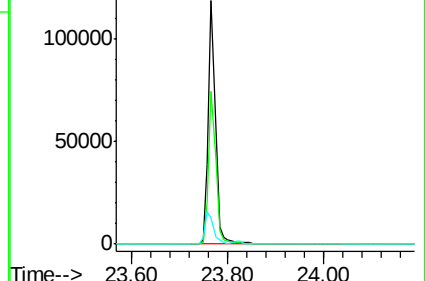
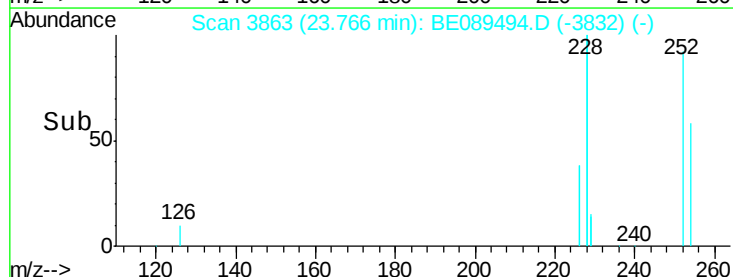
126 10.6 12.4 18.6#

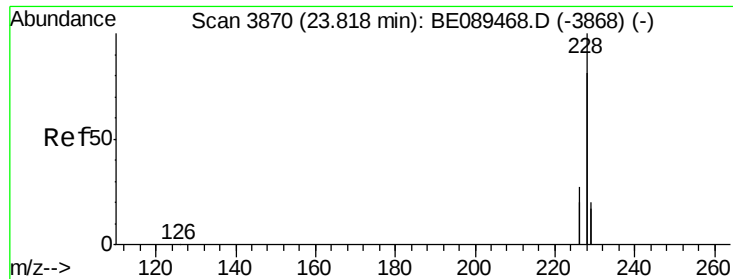


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 5.46 ng

RT: 23.83 min Scan# 3870

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS

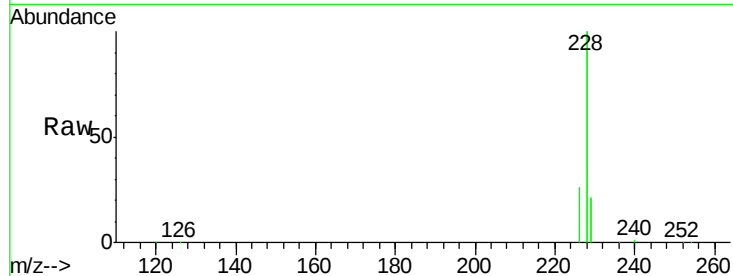
Tgt Ion:228 Resp: 1256998

Ion Ratio Lower Upper

228 100

226 25.9 21.8 32.8

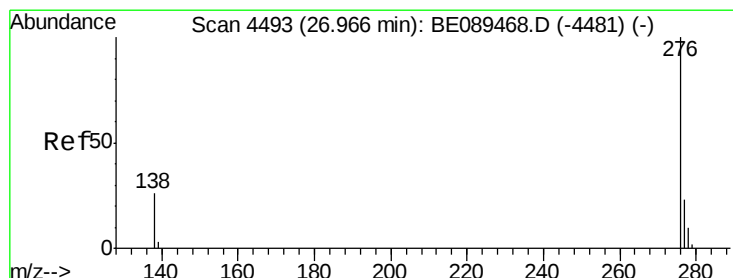
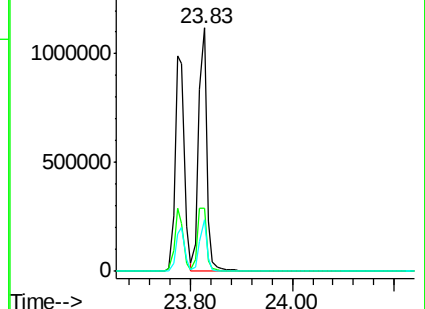
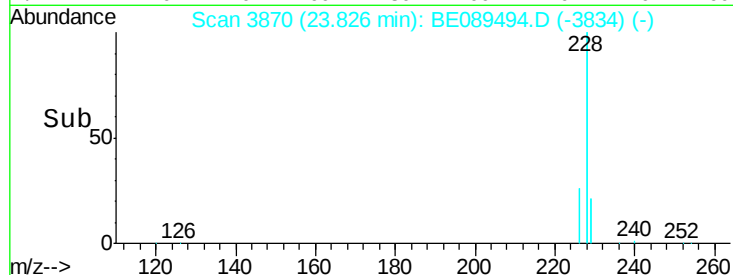
229 21.1 16.2 24.2



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 5.71 ng

RT: 26.98 min Scan# 4495

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

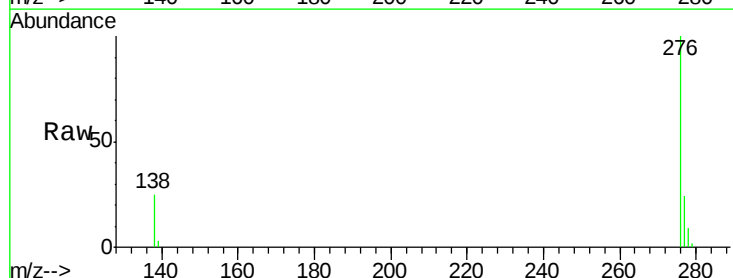
Tgt Ion:276 Resp: 369005

Ion Ratio Lower Upper

276 100

138 29.9 24.2 36.4

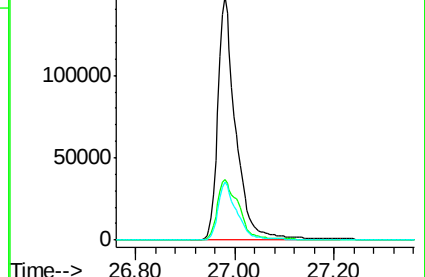
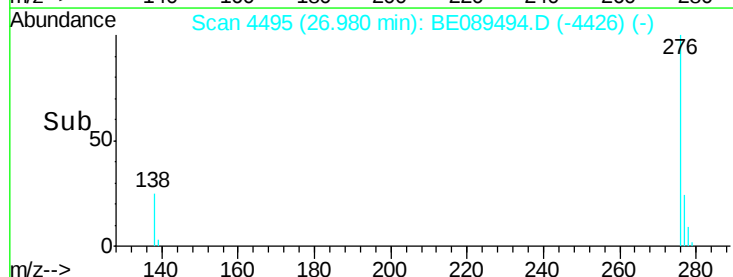
277 25.0 19.9 29.9

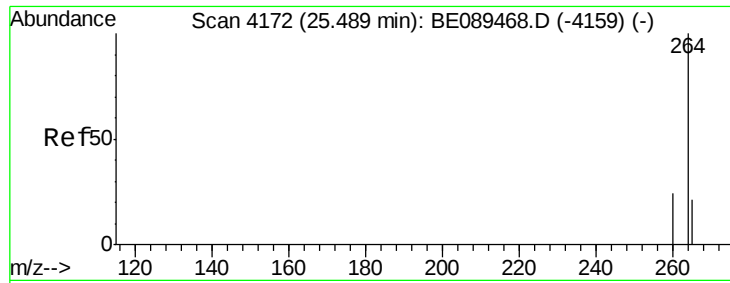


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

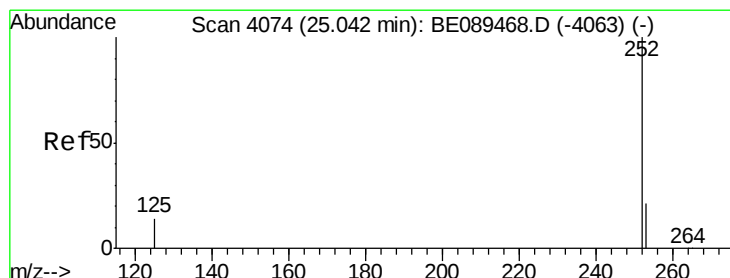
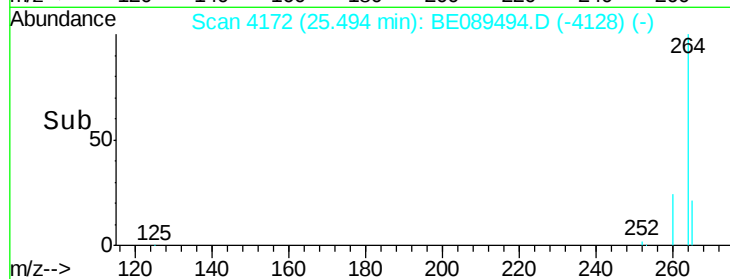
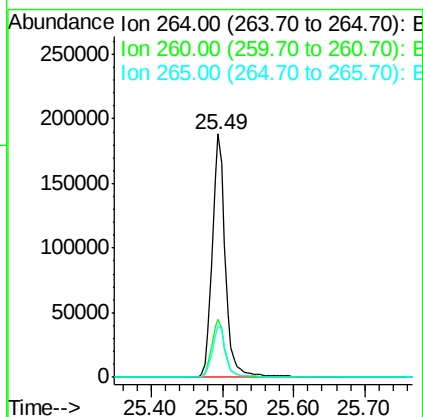
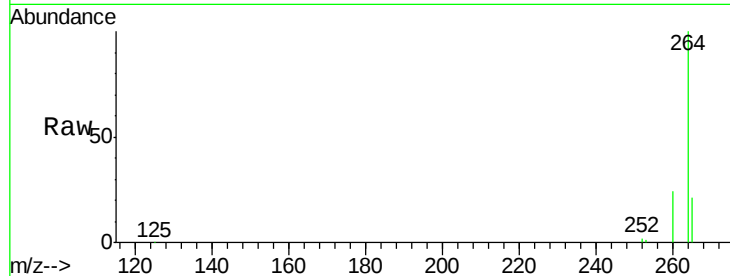




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.49 min Scan# 4172
 Delta R.T. 0.00 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

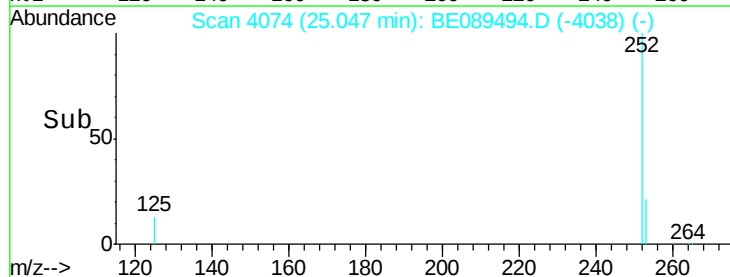
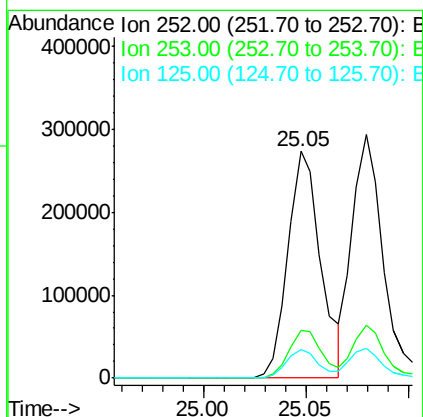
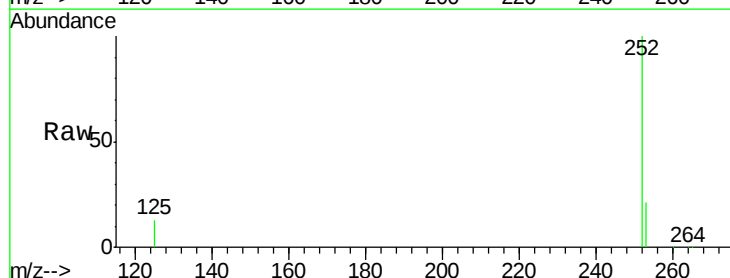
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

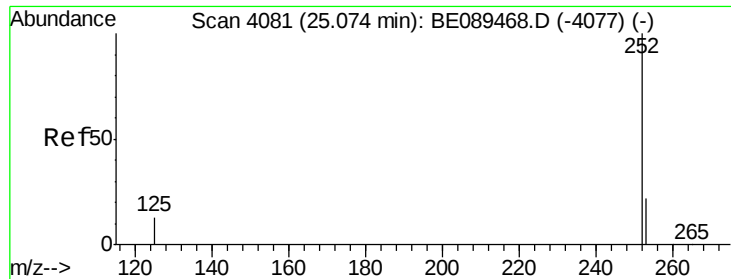
Tgt Ion: 264 Resp: 238825
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.1 28.7
 265 21.3 17.0 25.6



#28
Benzo(b)fluoranthene
 Concen: 5.63 ng
 RT: 25.05 min Scan# 4074
 Delta R.T. 0.01 min
 Lab File: BE089494.D
 Acq: 4 Feb 2015 13:18

Tgt Ion: 252 Resp: 304937
 Ion Ratio Lower Upper
 252 100
 253 21.1 17.4 26.2
 125 12.7 11.3 16.9





#29

Benzo(k)fluoranthene

Concen: 5.32 ng

RT: 25.08 min Scan# 4081

Delta R.T. 0.00 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS

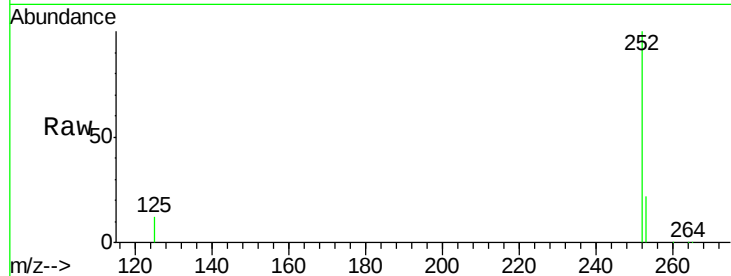
Tgt Ion:252 Resp: 329308

Ion Ratio Lower Upper

252 100

253 21.8 17.9 26.9

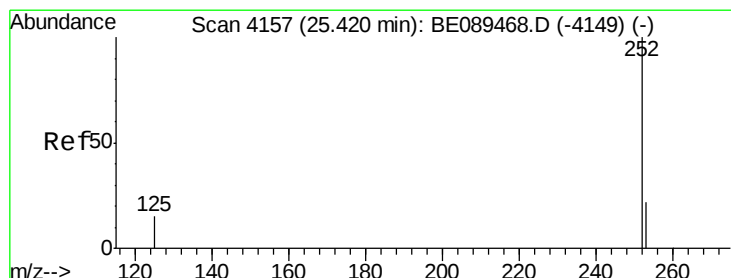
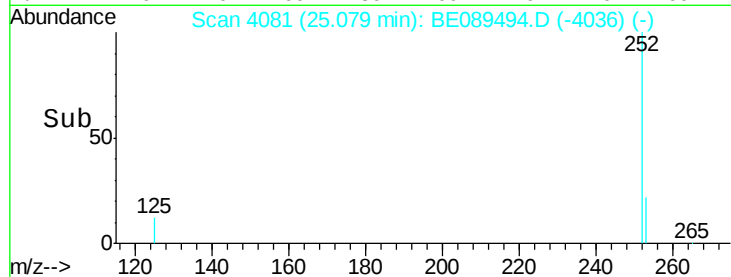
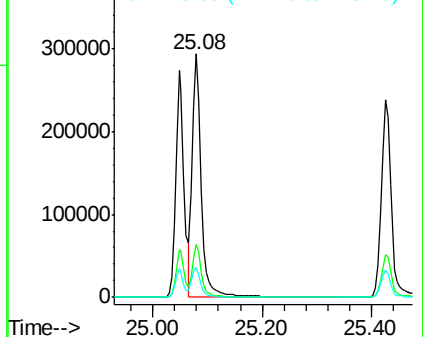
125 12.4 10.6 15.8



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



#30

Benzo(a)pyrene

Concen: 5.80 ng

RT: 25.43 min Scan# 4157

Delta R.T. 0.01 min

Lab File: BE089494.D

Acq: 4 Feb 2015 13:18

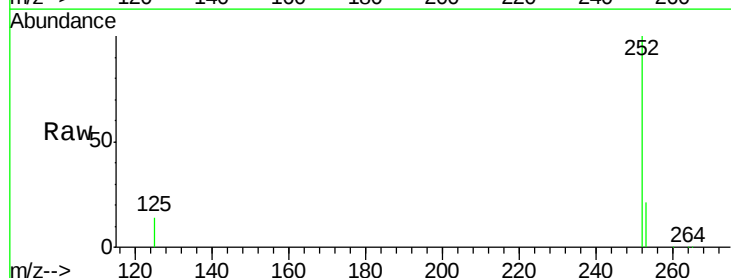
Tgt Ion:252 Resp: 306881

Ion Ratio Lower Upper

252 100

253 21.4 18.2 27.2

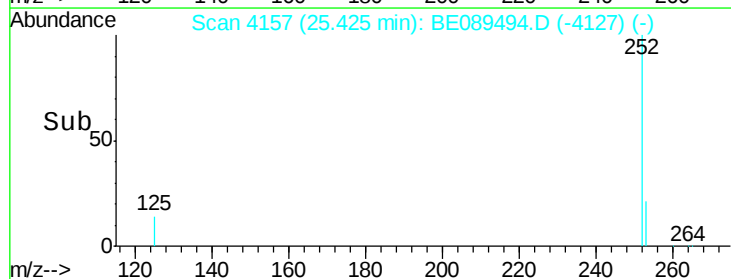
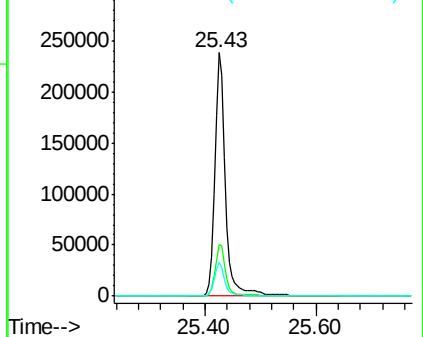
125 14.1 12.2 18.4

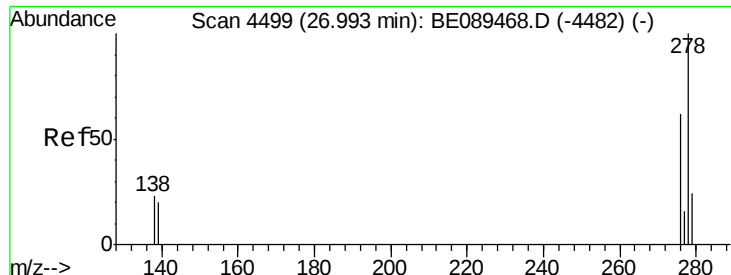


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 5.86 ng

RT: 27.01 min Scan# 4501

Delta R.T. 0.01 min

Lab File: BE089494.D

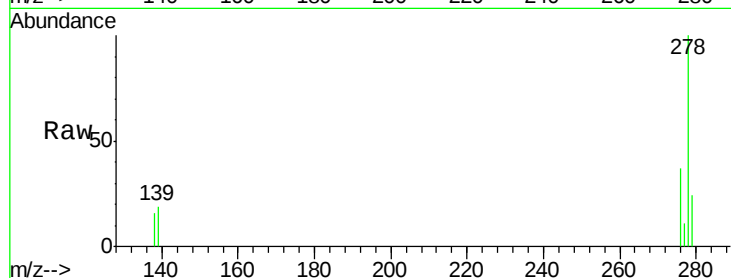
Acq: 4 Feb 2015 13:18

Instrument :

BNA_E

ClientSampleId :

PB81495BS



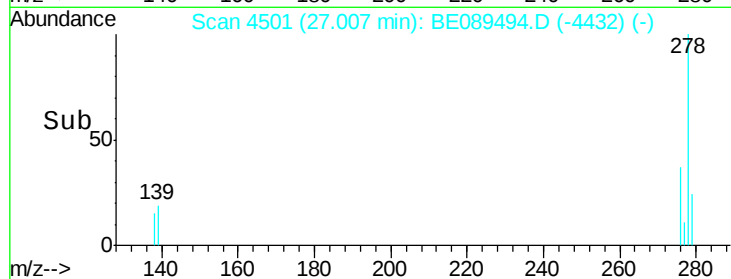
Tgt Ion: 278 Resp: 329020

Ion Ratio Lower Upper

278 100

139 18.8 16.8 25.2

279 23.8 19.4 29.0



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

200000

150000

100000

50000

0

27.01

26.80 27.00 27.20

Time-->