

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041516\
 Data File : BF086272.D
 Acq On : 16 Apr 2016 18:09
 Operator : UM/SJ
 Sample : H2413-04
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-D-4(0-2)

Quant Time: Apr 18 04:13:34 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	312854	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	1195978	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	524245	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	793597	20.00	ng	0.00
75) Chrysene-d12	14.05	240	529659	20.00	ng	0.00
86) Perylene-d12	15.49	264	548964	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1683554	88.17	ng	0.01
7) Phenol-d6	6.52	99	2016365	84.42	ng	0.00
23) Nitrobenzene-d5	7.46	82	1506448	72.65	ng	0.00
41) 2,4,6-Tribromophenol	10.73	330	383749	91.16	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	1887309	66.43	ng	-0.01
78) Terphenyl-d14	13.00	244	1089210	51.71	ng	0.00

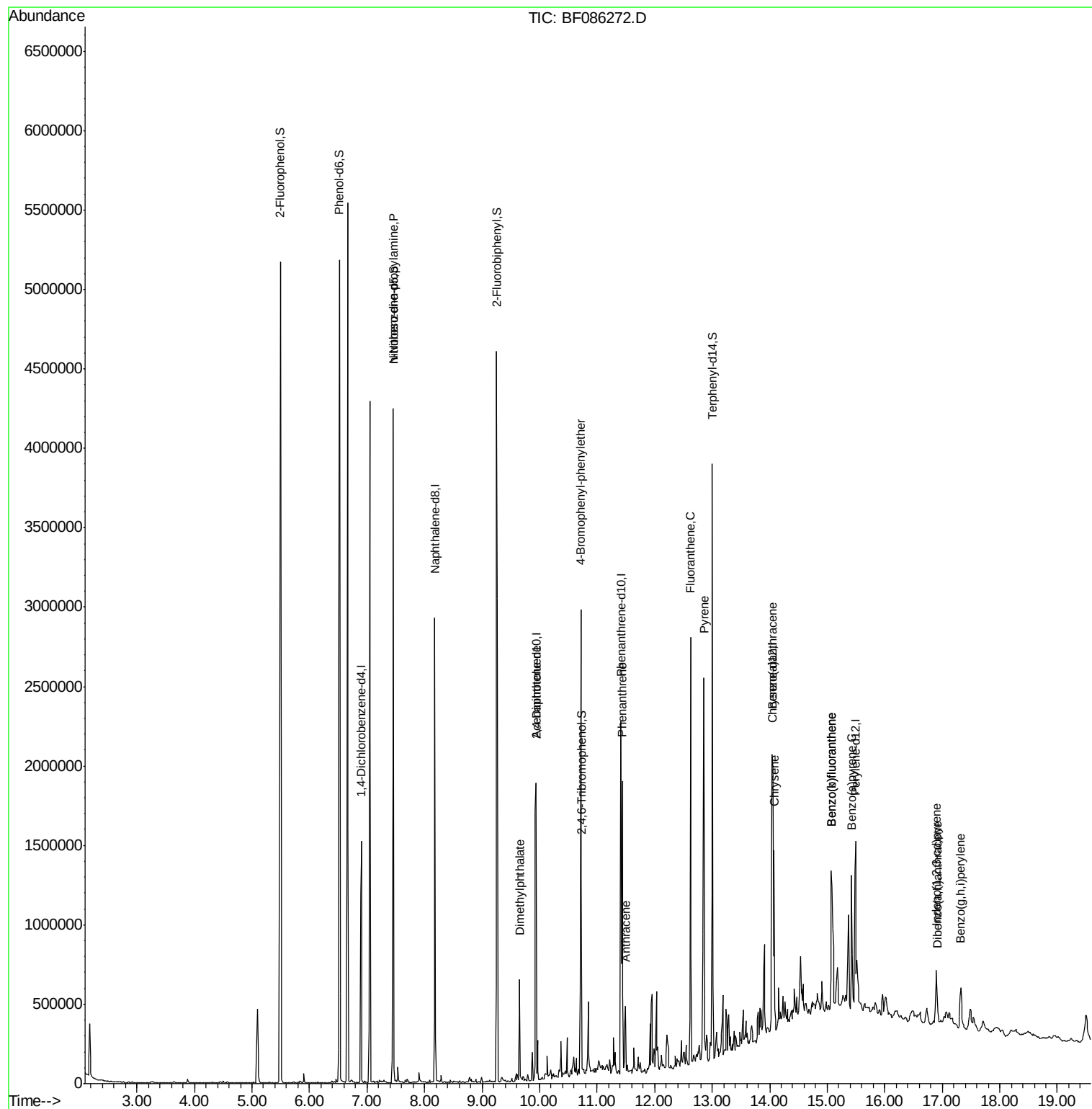
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.46	70	212553	13.91	ng	# 80
22) Acetophenone	7.30	105	2413	Below	Cal	# 84
49) Dimethylphthalate	9.65	163	334642	8.78	ng	98
56) 2,4-Dinitrotoluene	9.94	165	67872	6.29	ng	# 32
57) Fluorene	10.48	166	62398	Below	Cal	98
66) 4-Bromophenyl-phenylether	10.72	248	22150	2.99	ng	# 1
70) Phenanthrene	11.44	178	652939	17.23	ng	100
71) Anthracene	11.49	178	203154	3.55	ng	97
74) Fluoranthene	12.62	202	1036252	29.87	ng	98
77) Pyrene	12.85	202	934942	23.01	ng	99
80) Benzo(a)anthracene	14.04	228	449061	15.44	ng	99
82) Chrysene	14.08	228	335580	10.82	ng	97
85) Indeno(1,2,3-cd)pyrene	16.90	276	230043	9.03	ng	93
87) Benzo(b)fluoranthene	15.07	252	737454	21.77	ng	# 95
88) Benzo(k)fluoranthene	15.07	252	737454	23.88	ng	# 93
89) Benzo(a)pyrene	15.43	252	400360	13.65	ng	# 95
90) Dibenzo(a,h)anthracene	16.91	278	53878	2.08	ng	# 86
91) Benzo(g,h,i)perylene	17.32	276	217455	7.89	ng	96

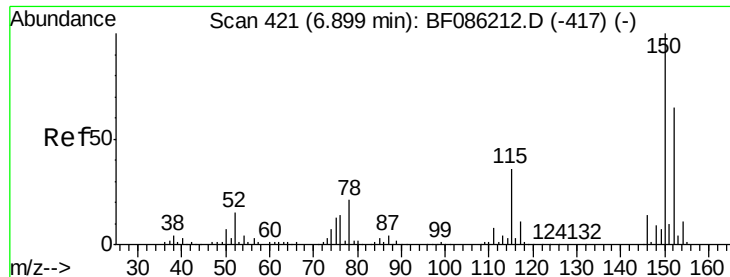
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

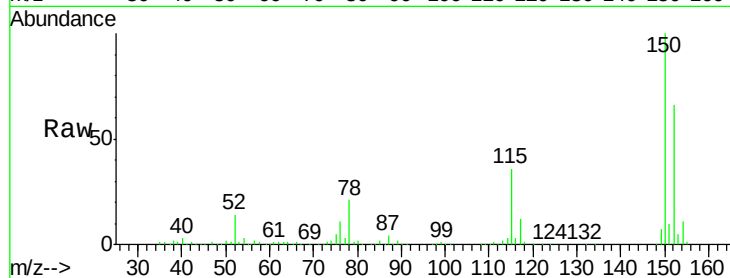
Tgt Ion:152 Resp: 312854

Ion Ratio Lower Upper

152 100

150 151.6 124.1 186.1

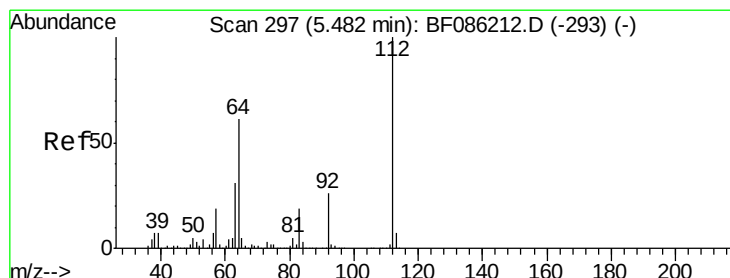
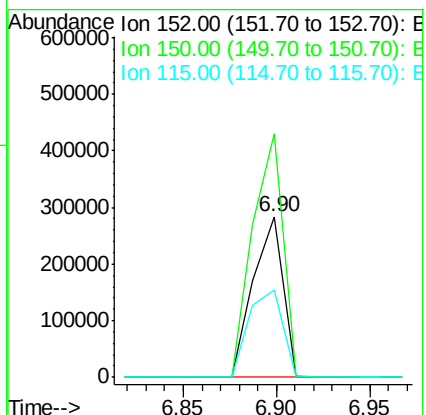
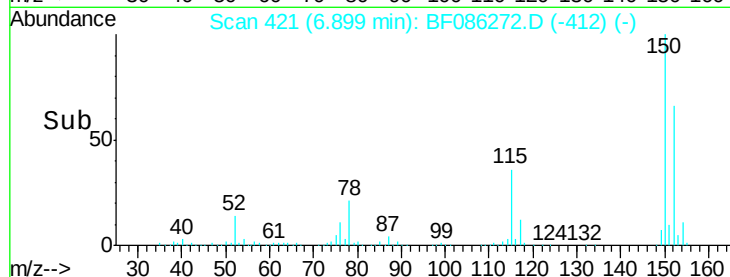
115 54.7 43.9 65.9



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



#5

2-Fluorophenol

Concen: 88.17 ng

RT: 5.49 min Scan# 298

Delta R.T. 0.01 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

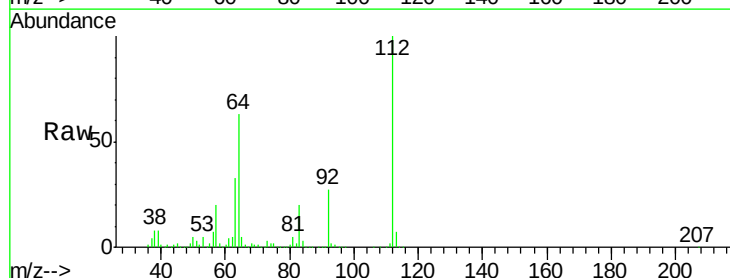
Tgt Ion:112 Resp: 1683554

Ion Ratio Lower Upper

112 100

64 63.2 48.1 72.1

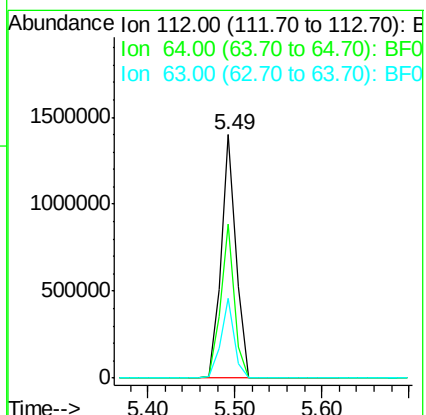
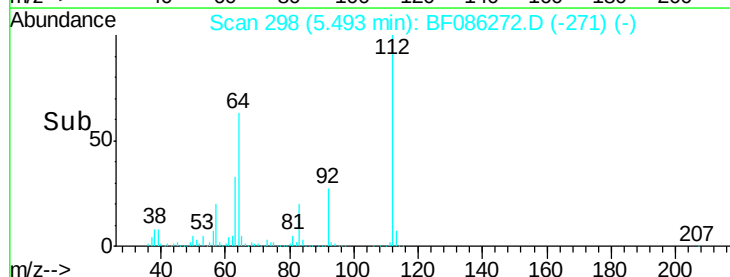
63 33.0 25.5 38.3

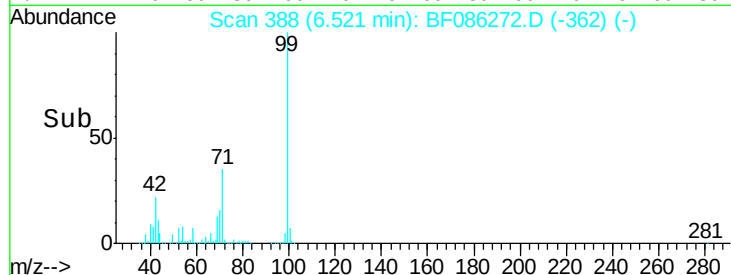
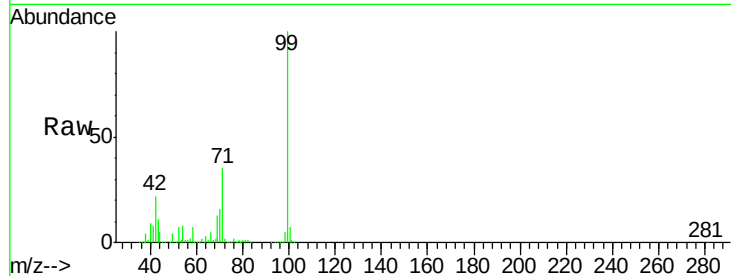
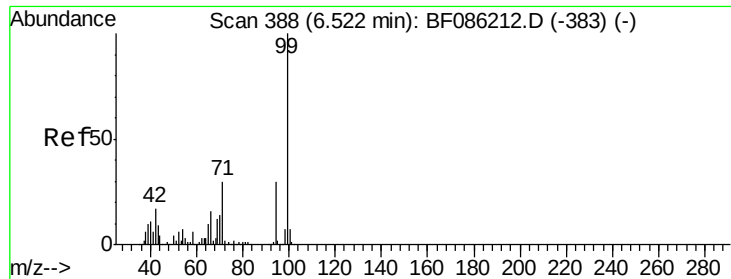


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 84.42 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

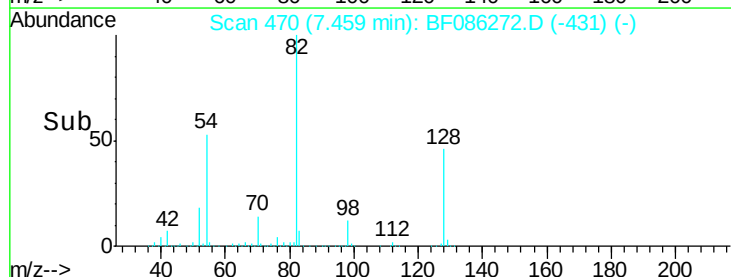
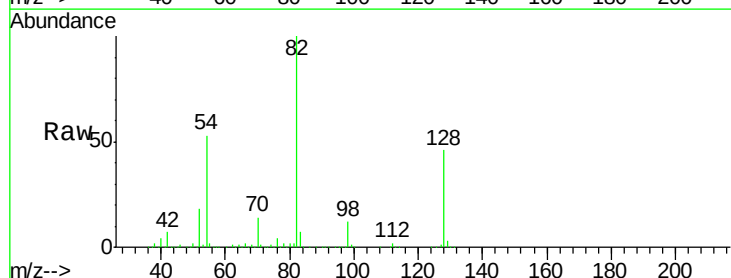
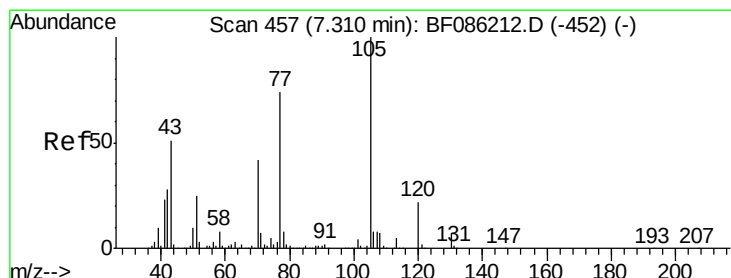
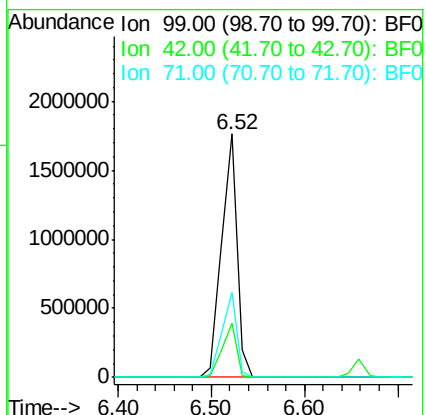
Tgt Ion: 99 Resp: 2016365

Ion Ratio Lower Upper

99 100

42 22.1 15.4 23.2

71 35.0 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 13.91 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.15 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Tgt Ion: 70 Resp: 212553

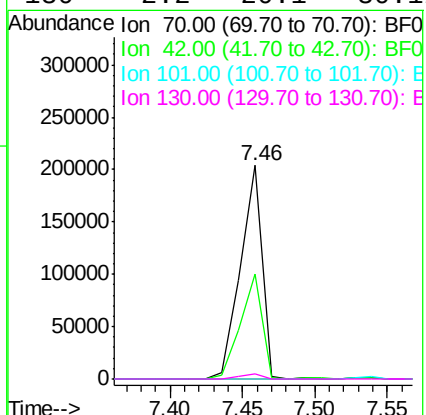
Ion Ratio Lower Upper

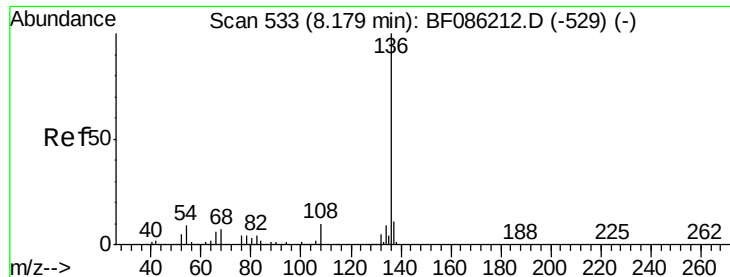
70 100

42 49.3 43.0 64.4

101 0.0 8.1 12.1#

130 2.2 20.1 30.1#

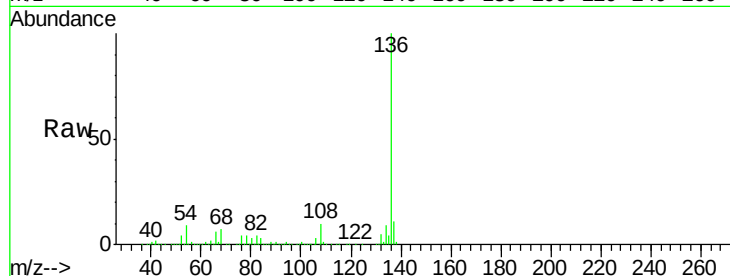




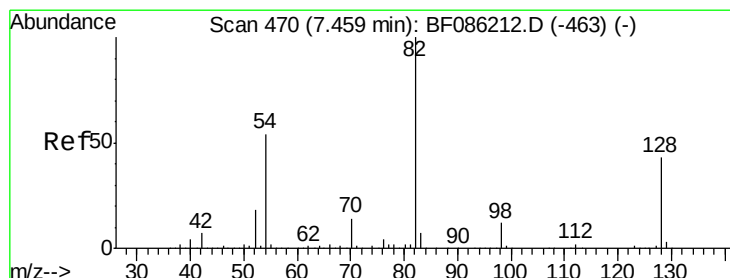
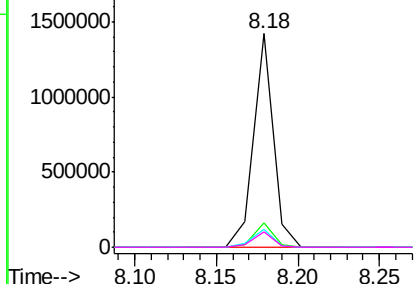
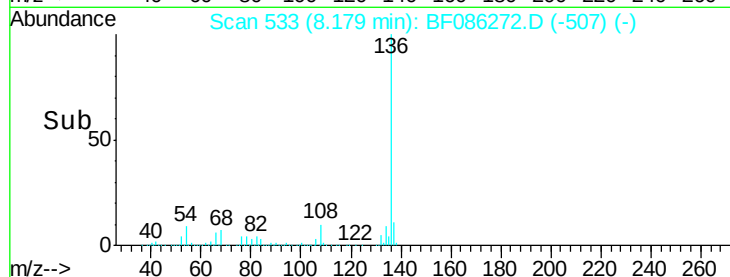
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.18 min Scan# 533
Delta R.T. -0.00 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

Instrument :
BNA_F
ClientSampleId :
SP-2-D-4(0-2)

Tgt Ion:	136	Resp:	1195978
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	8.6	7.3	10.9
68	6.9	5.7	8.5

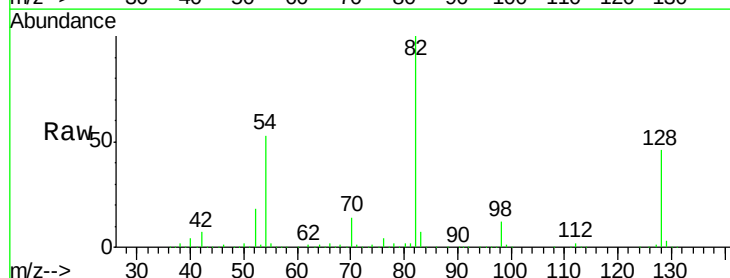


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

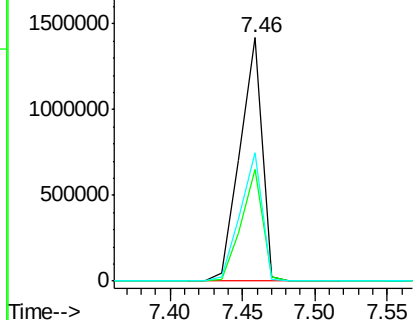
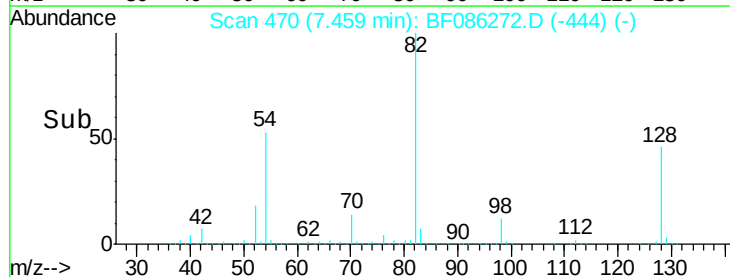


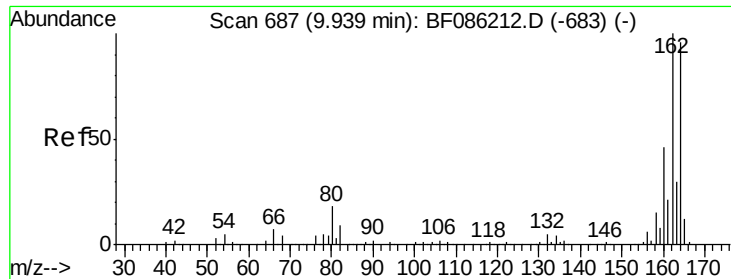
#23
Nitrobenzene-d5
Concen: 72.65 ng
RT: 7.46 min Scan# 470
Delta R.T. -0.00 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

Tgt Ion:	82	Resp:	1506448
Ion	Ratio	Lower	Upper
82	100		
128	45.8	35.4	53.2
54	52.8	43.4	65.0



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

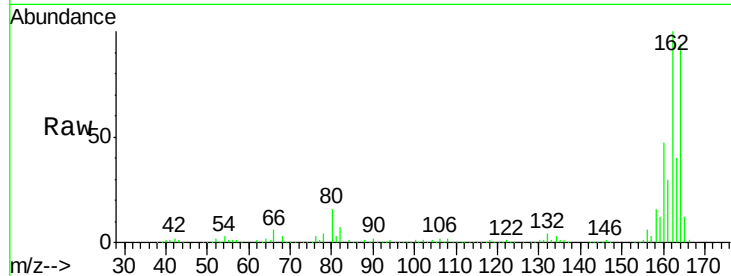
Tgt Ion:164 Resp: 524245

Ion Ratio Lower Upper

164 100

162 106.2 82.8 124.2

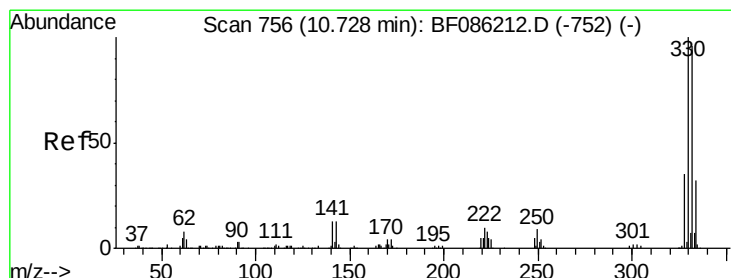
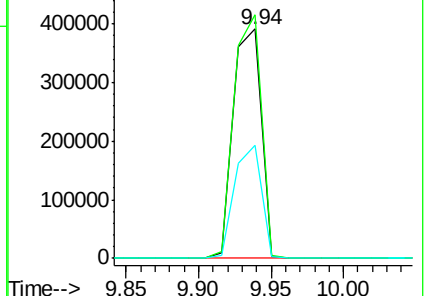
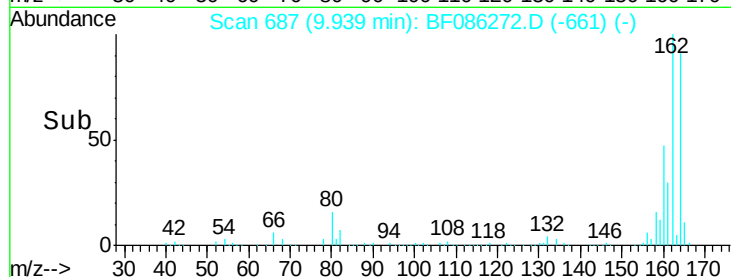
160 49.5 38.9 58.3



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



#41

2,4,6-Tribromophenol

Concen: 91.16 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

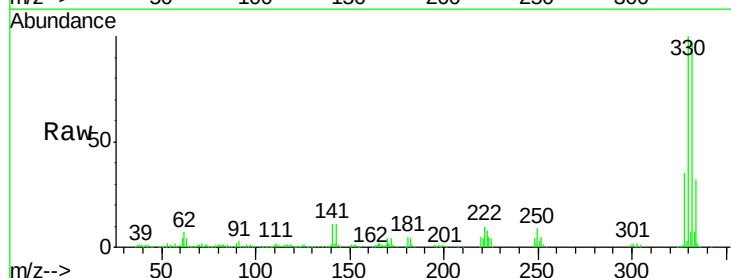
Tgt Ion:330 Resp: 383749

Ion Ratio Lower Upper

330 100

332 96.1 78.7 118.1

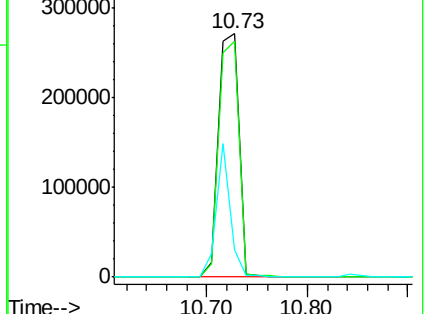
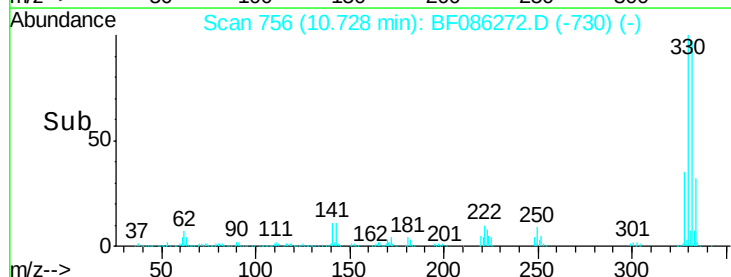
141 37.1 28.6 42.8

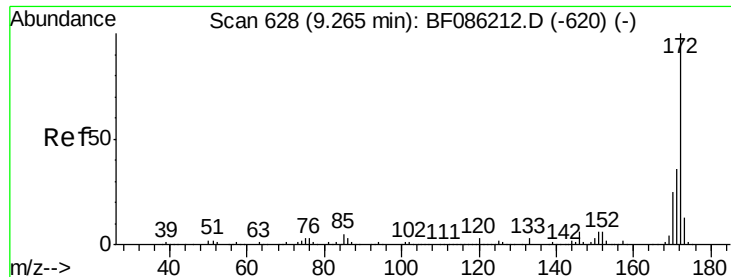


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

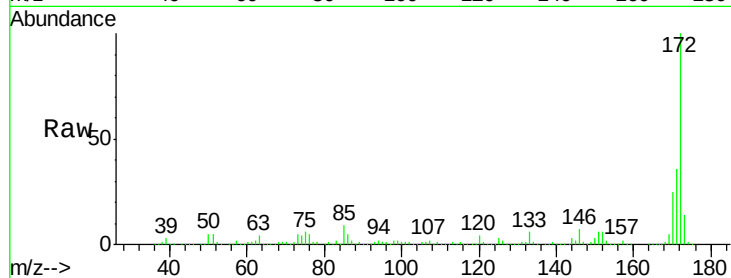




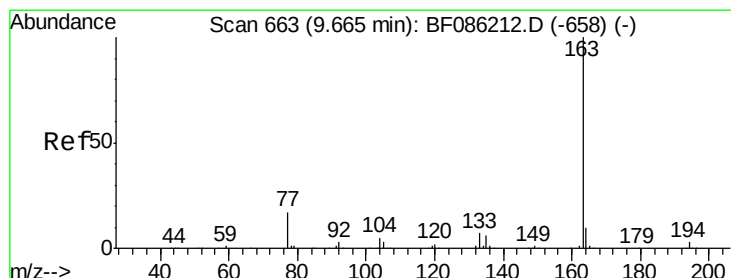
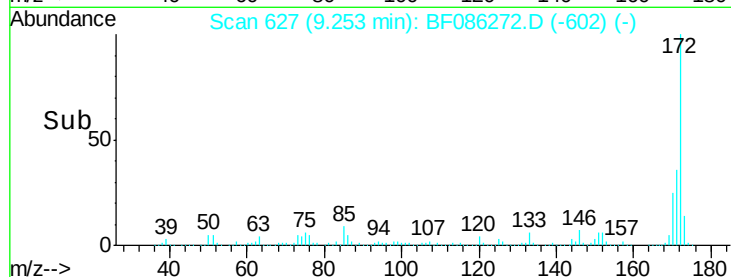
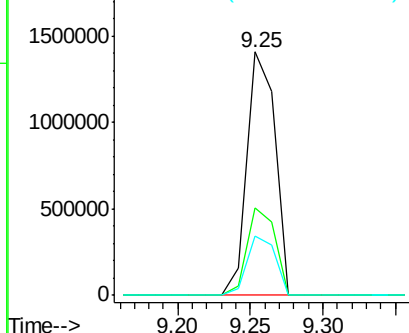
#44
2-Fluorobiphenyl
Concen: 66.43 ng
RT: 9.25 min Scan# 627
Delta R.T. -0.01 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

Instrument :
BNA_F
ClientSampleId :
SP-2-D-4(0-2)

Tgt Ion:172 Resp: 1887309
Ion Ratio Lower Upper
172 100
171 36.1 29.1 43.7
170 24.6 19.9 29.9

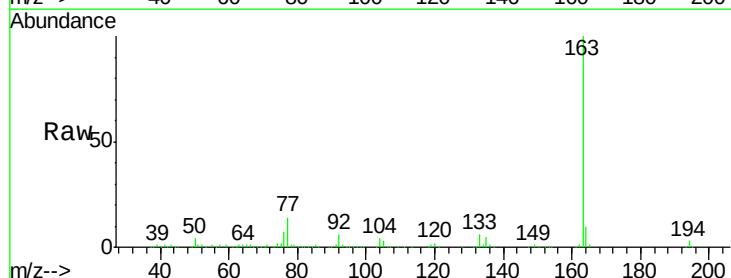


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

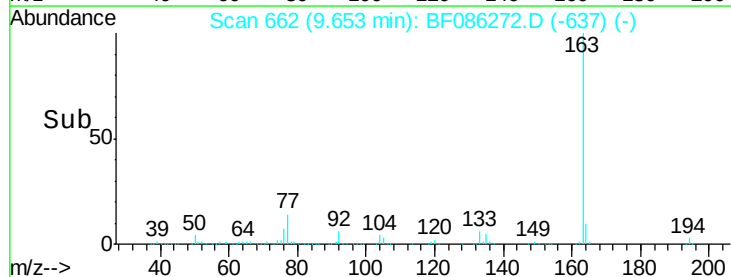
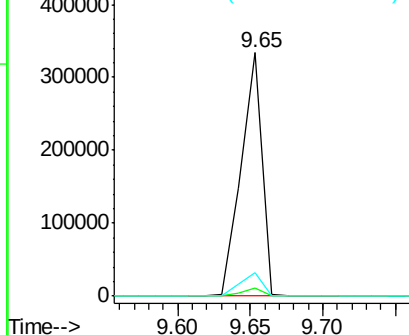


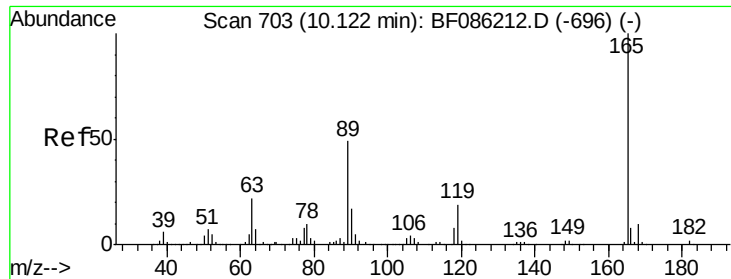
#49
Dimethylphthalate
Concen: 8.78 ng
RT: 9.65 min Scan# 662
Delta R.T. -0.01 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

Tgt Ion:163 Resp: 334642
Ion Ratio Lower Upper
163 100
194 3.4 2.8 4.2
164 9.6 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#56

2,4-Dinitrotoluene

Concen: 6.29 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.18 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

Tgt Ion:165 Resp: 67872

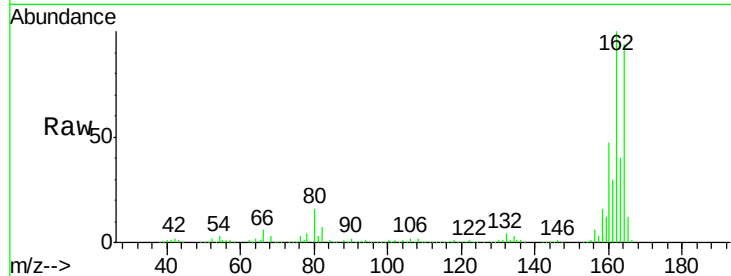
Ion Ratio Lower Upper

165 100

63 2.0 26.6 40.0#

89 2.1 49.5 74.3#

182 0.0 1.9 2.9#

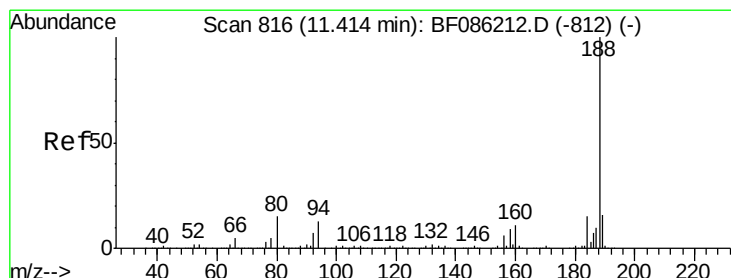
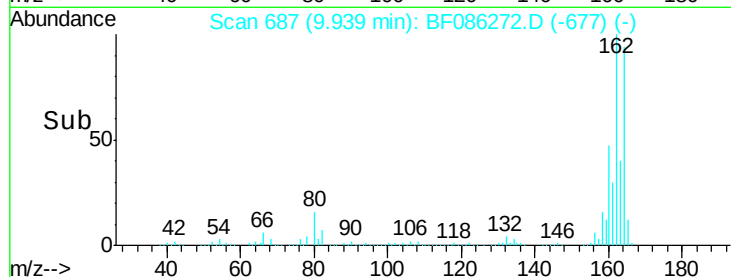
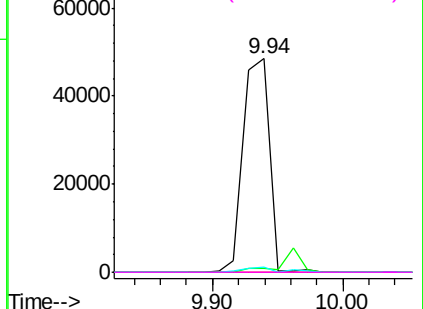


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

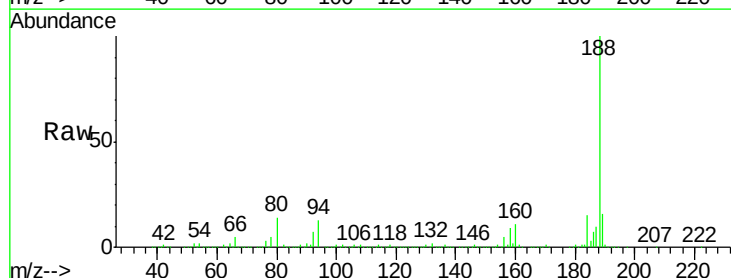
Tgt Ion:188 Resp: 793597

Ion Ratio Lower Upper

188 100

94 13.2 9.8 14.8

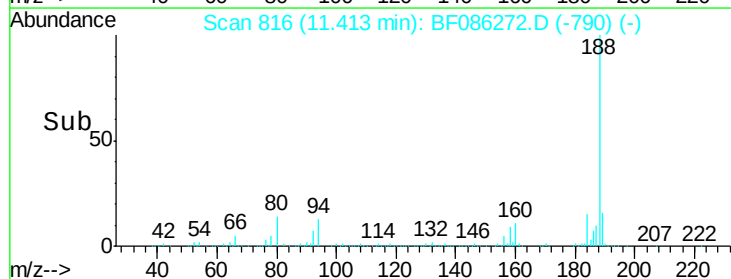
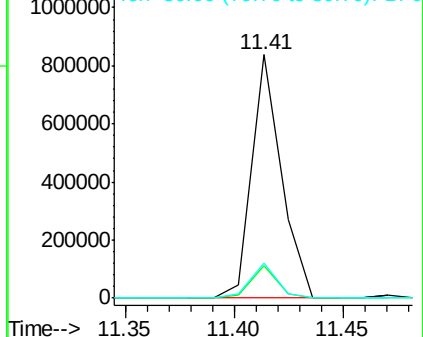
80 14.5 10.5 15.7

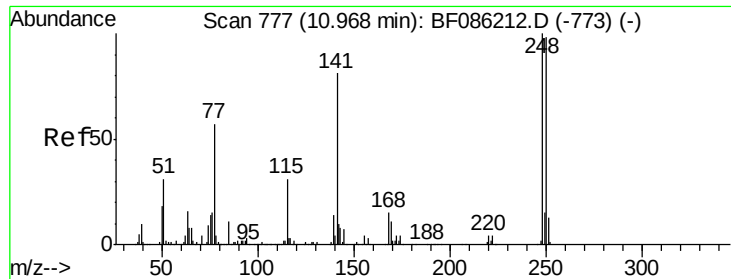


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

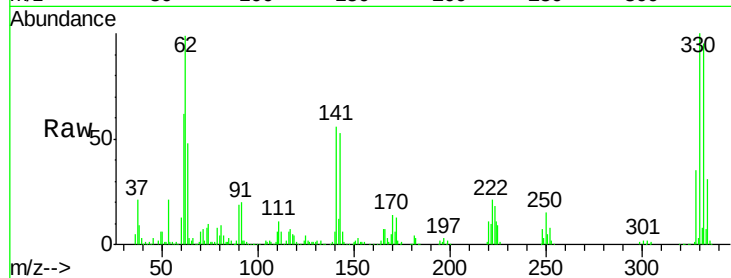




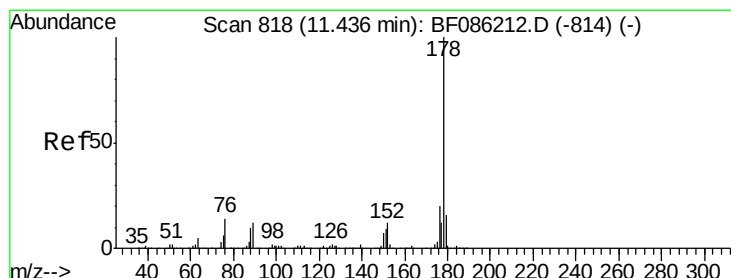
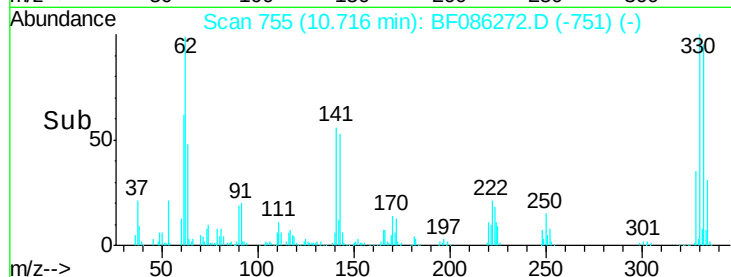
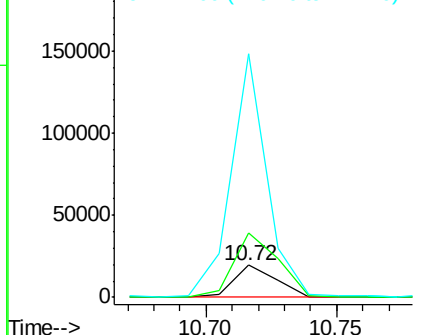
#66
 4-Bromophenyl-phenylether
 Concen: 2.99 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.25 min
 Lab File: BF086272.D
 Acq: 16 Apr 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-D-4(0-2)

Tgt Ion:248 Resp: 22150
 Ion Ratio Lower Upper
 248 100
 250 201.5 78.6 118.0#
 141 762.2 57.9 86.9#

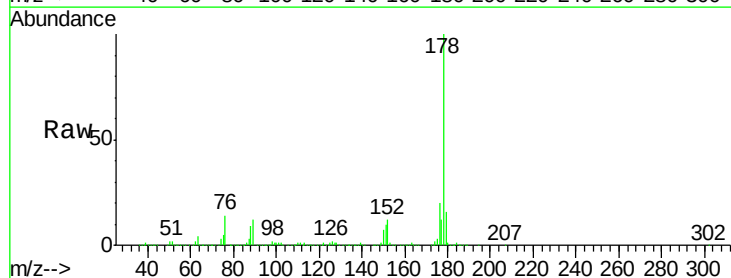


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

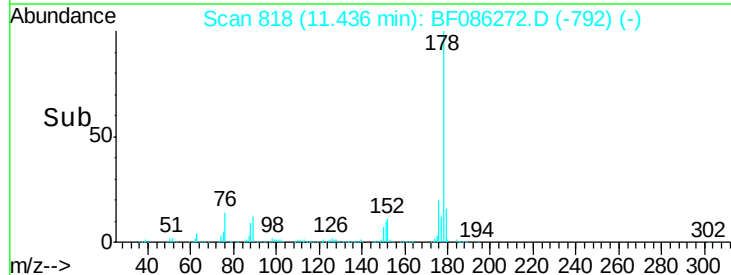
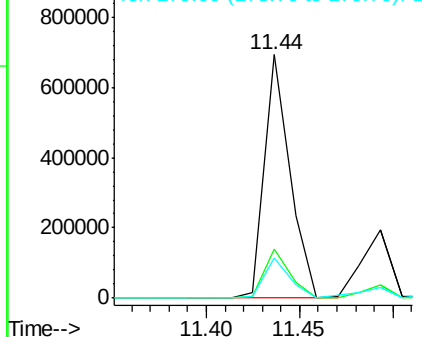


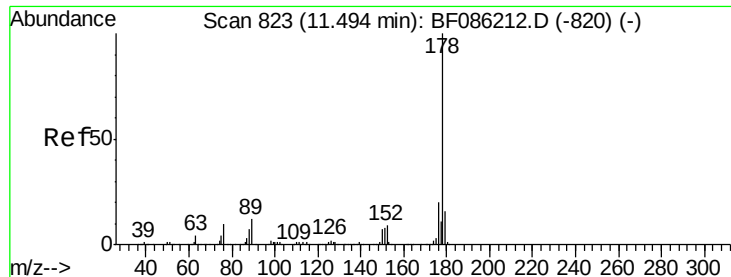
#70
 Phenanthrene
 Concen: 17.23 ng
 RT: 11.44 min Scan# 818
 Delta R.T. 0.00 min
 Lab File: BF086272.D
 Acq: 16 Apr 2016 18:09

Tgt Ion:178 Resp: 652939
 Ion Ratio Lower Upper
 178 100
 176 20.4 16.3 24.5
 179 16.3 13.0 19.6



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

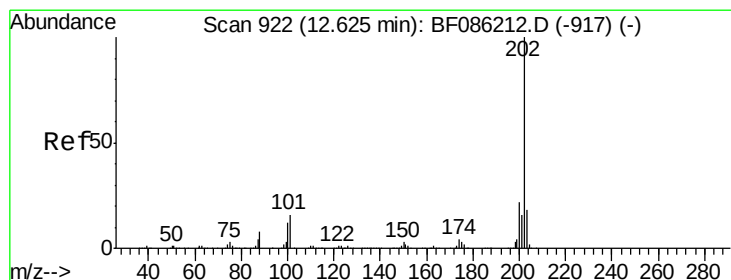
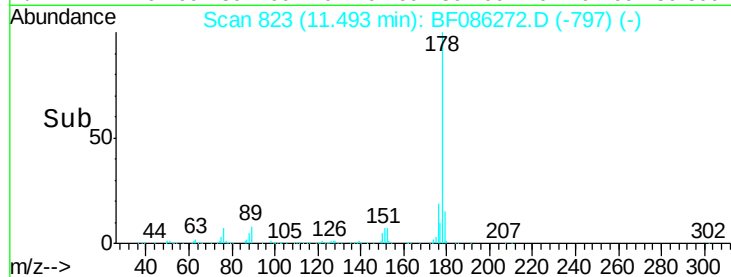
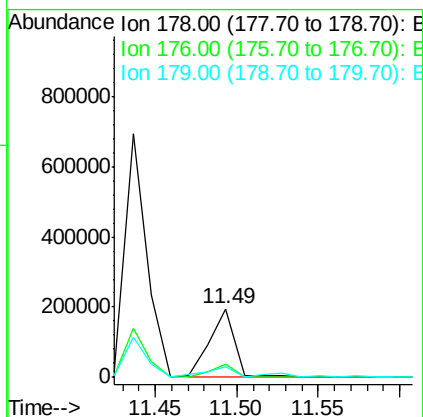
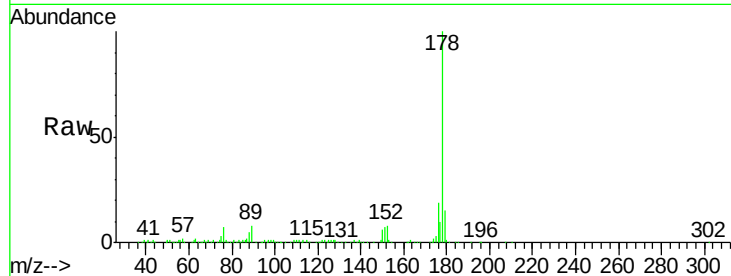




#71
 Anthracene
 Concen: 3.55 ng
 RT: 11.49 min Scan# 823
 Delta R.T. 0.00 min
 Lab File: BF086272.D
 Acq: 16 Apr 2016 18:09

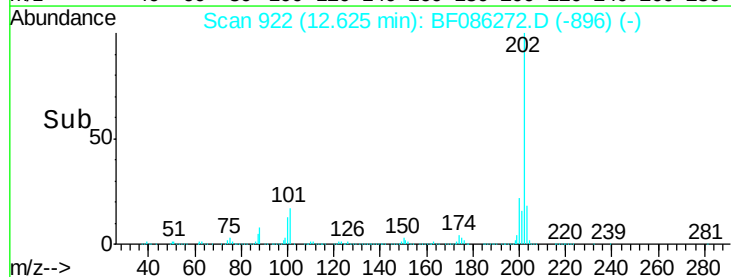
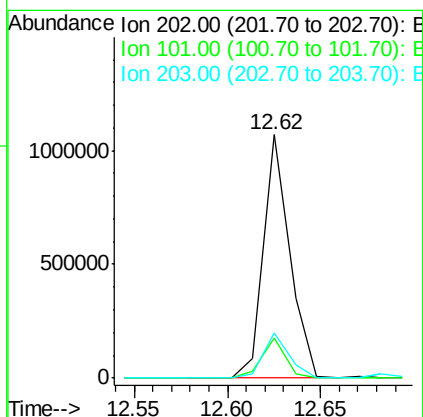
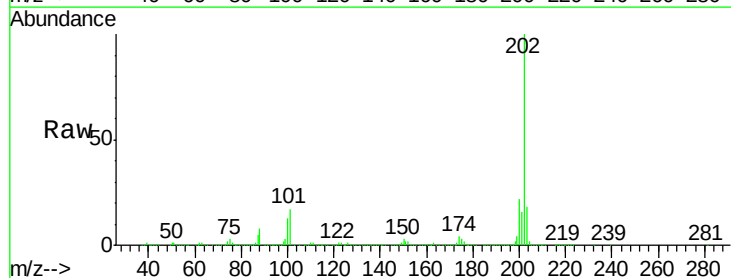
Instrument :
 BNA_F
 ClientSampleId :
 SP-2-D-4(0-2)

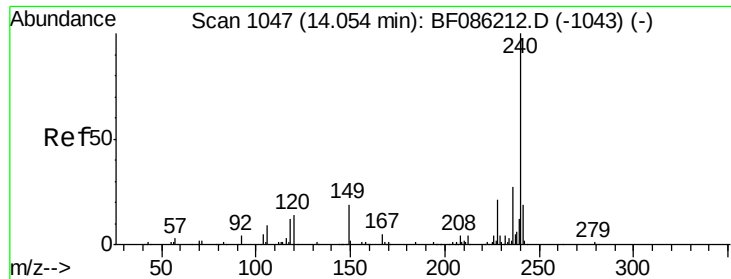
Tgt Ion:178 Resp: 203154
 Ion Ratio Lower Upper
 178 100
 176 19.0 16.2 24.4
 179 15.2 13.2 19.8



#74
 Fluoranthene
 Concen: 29.87 ng
 RT: 12.62 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: BF086272.D
 Acq: 16 Apr 2016 18:09

Tgt Ion:202 Resp: 1036252
 Ion Ratio Lower Upper
 202 100
 101 16.7 0.0 35.2
 203 18.5 0.0 38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

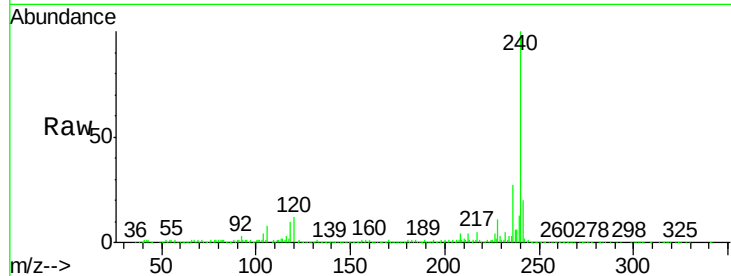
Tgt Ion:240 Resp: 529659

Ion Ratio Lower Upper

240 100

120 12.0 9.3 13.9

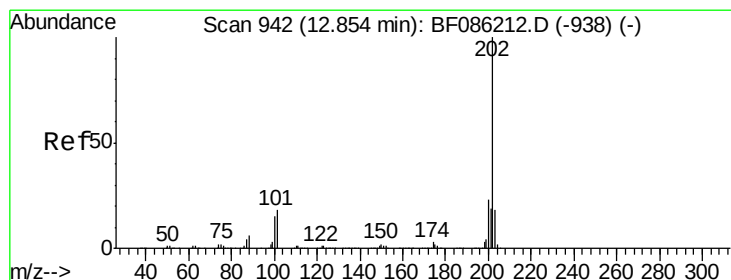
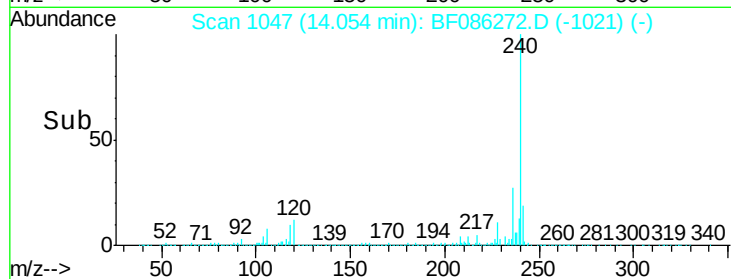
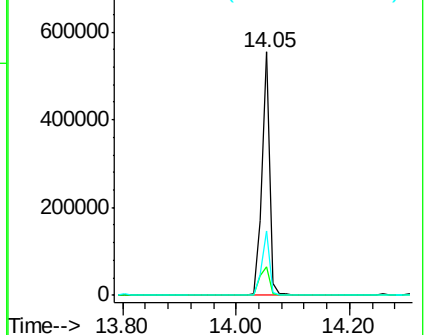
236 26.7 21.1 31.7



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



#77

Pyrene

Concen: 23.01 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

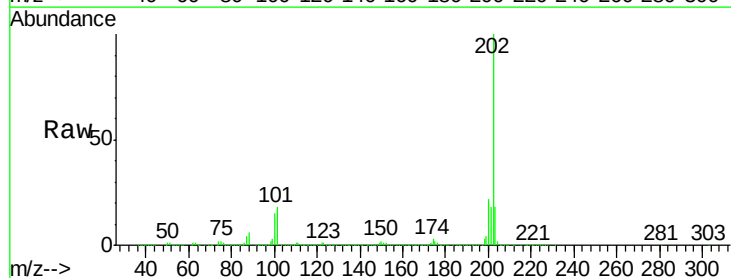
Tgt Ion:202 Resp: 934942

Ion Ratio Lower Upper

202 100

200 22.2 18.3 27.5

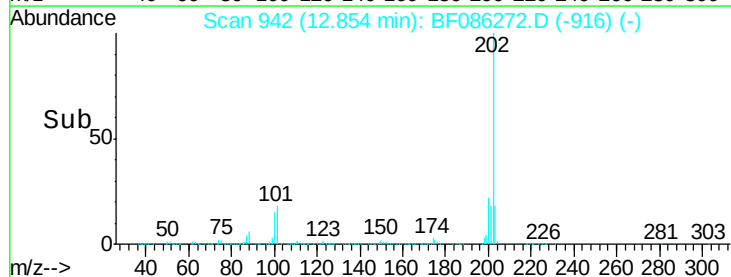
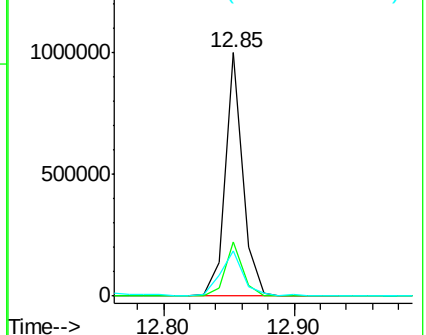
203 18.5 14.9 22.3

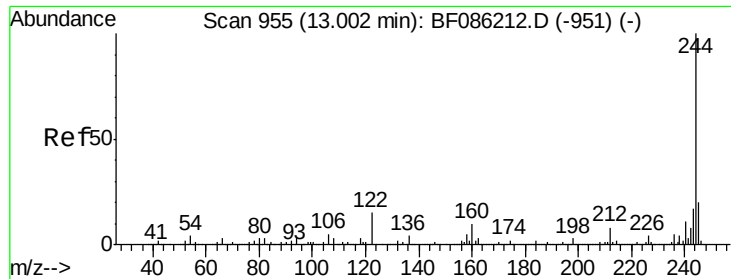


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

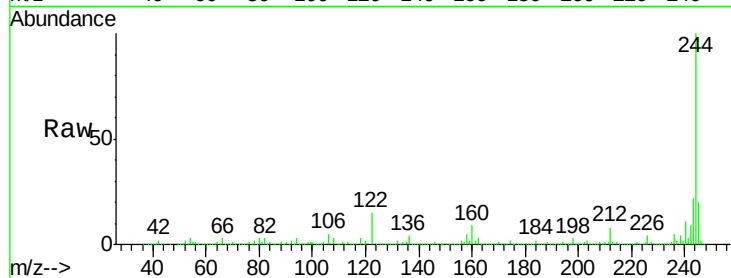




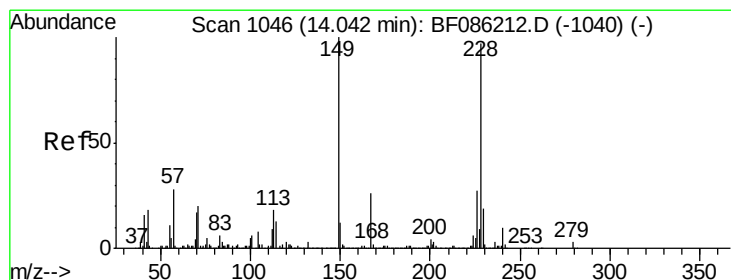
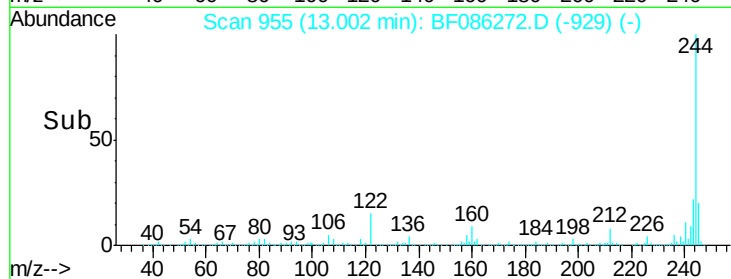
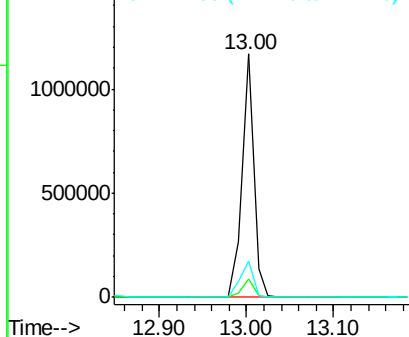
#78
 Terphenyl-d14
 Concen: 51.71 ng
 RT: 13.00 min Scan# 955
 Delta R.T. 0.00 min
 Lab File: BF086272.D
 Acq: 16 Apr 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-D-4(0-2)

Tgt Ion:244 Resp: 1089210
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.4 9.6
 122 15.1 11.7 17.5

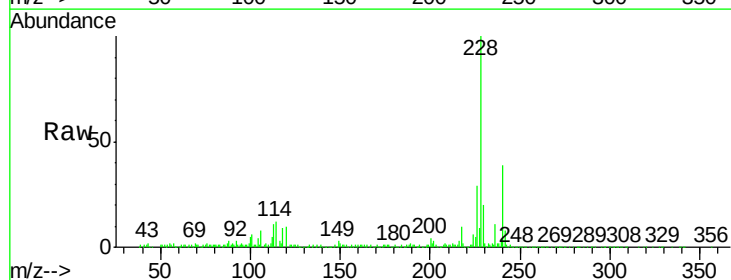


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

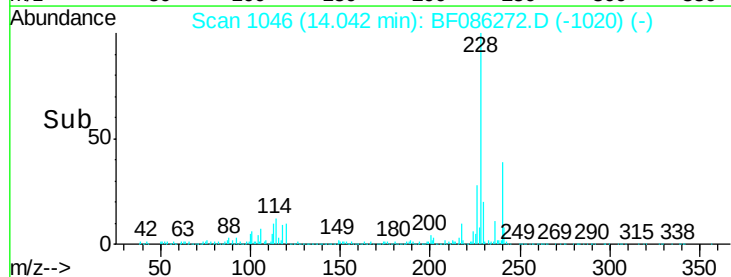
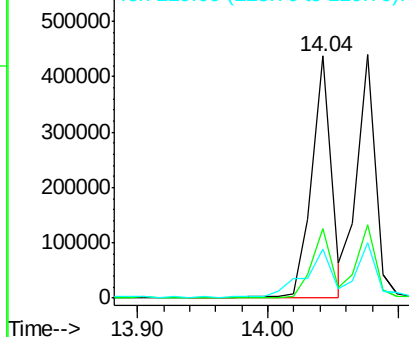


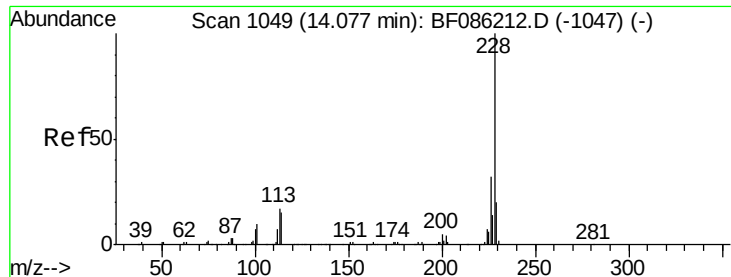
#80
 Benzo(a)anthracene
 Concen: 15.44 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.00 min
 Lab File: BF086272.D
 Acq: 16 Apr 2016 18:09

Tgt Ion:228 Resp: 449061
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.5 33.7
 229 20.3 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





#82

Chrysene

Concen: 10.82 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

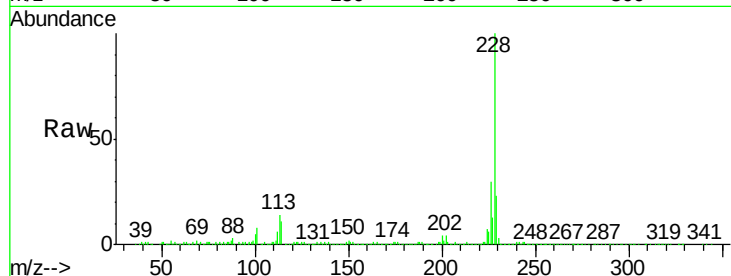
Tgt Ion:228 Resp: 335580

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

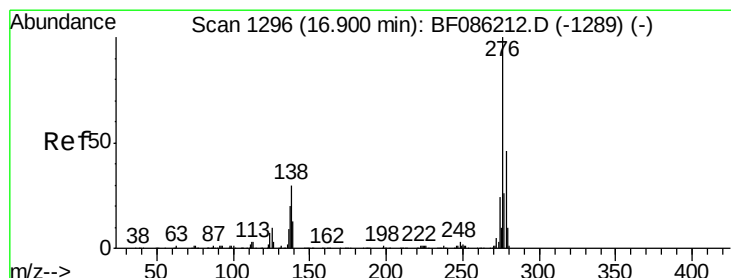
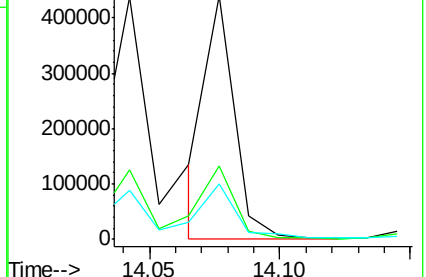
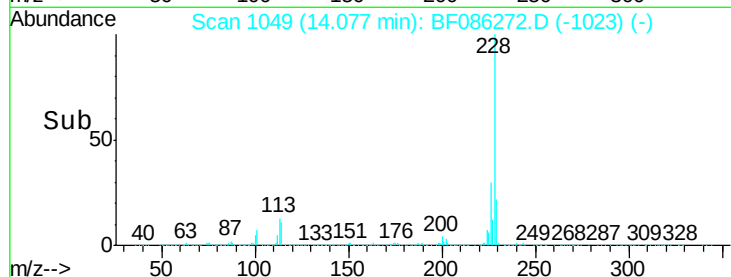
229 22.6 16.5 24.7



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.03 ng

RT: 16.90 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

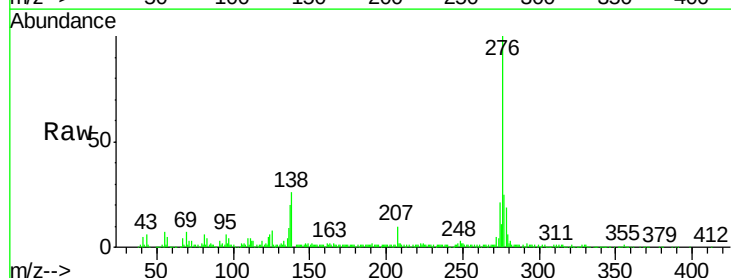
Tgt Ion:276 Resp: 230043

Ion Ratio Lower Upper

276 100

138 32.1 23.8 35.6

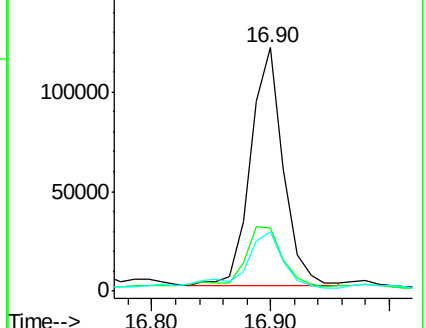
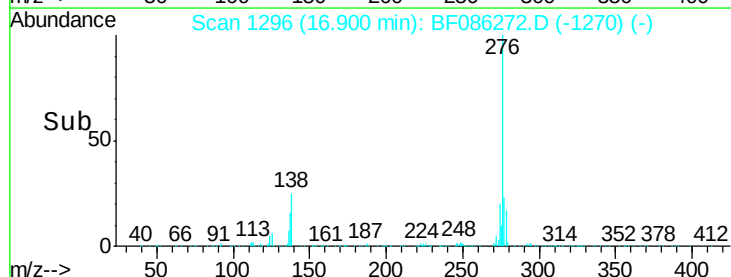
277 30.1 20.2 30.2

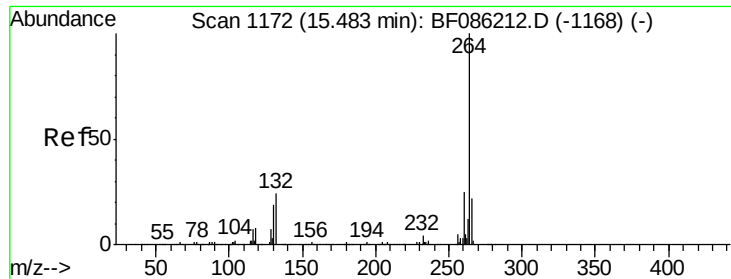


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

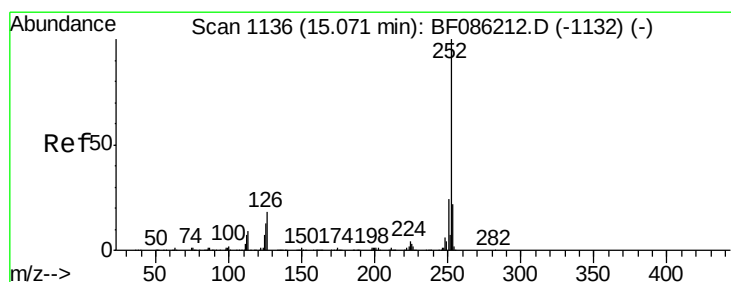
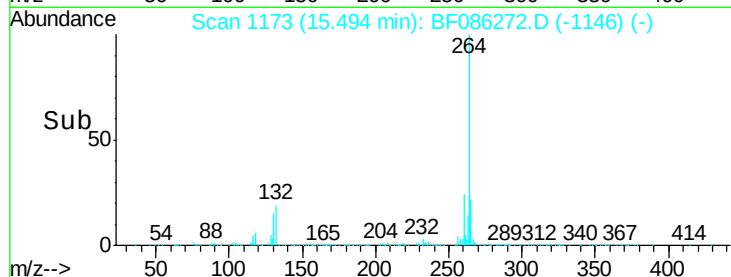
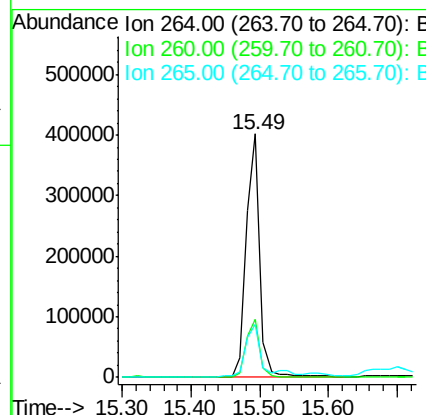
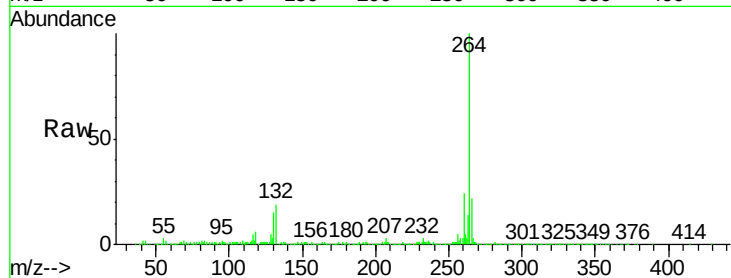




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

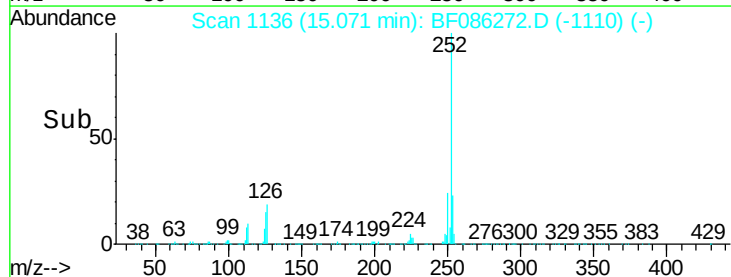
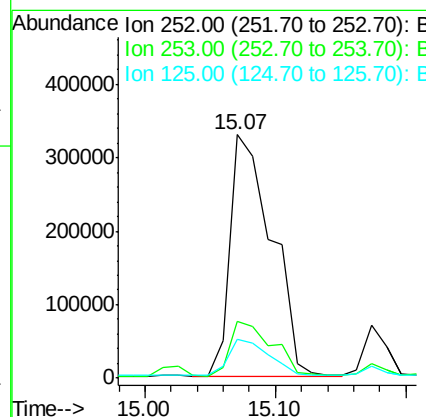
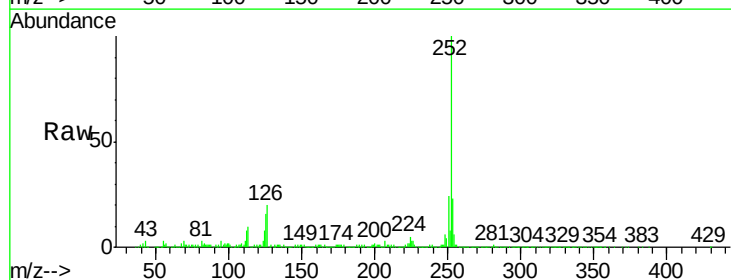
Instrument :
BNA_F
ClientSampleId :
SP-2-D-4(0-2)

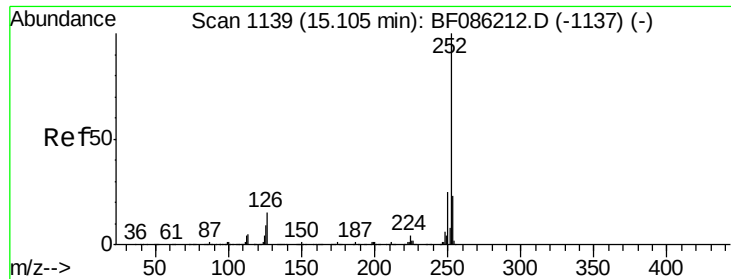
Tgt Ion: 264 Resp: 548964
Ion Ratio Lower Upper
264 100
260 24.0 20.0 30.0
265 21.9 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 21.77 ng
RT: 15.07 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

Tgt Ion: 252 Resp: 737454
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 16.2 10.3 15.5#

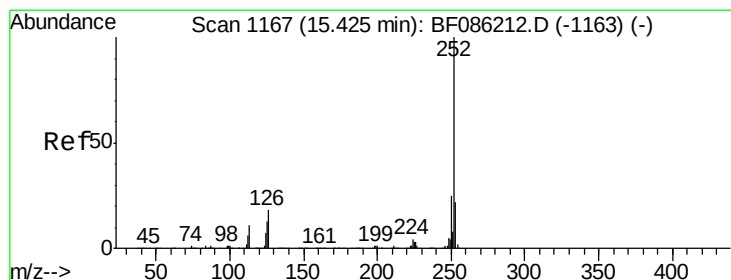
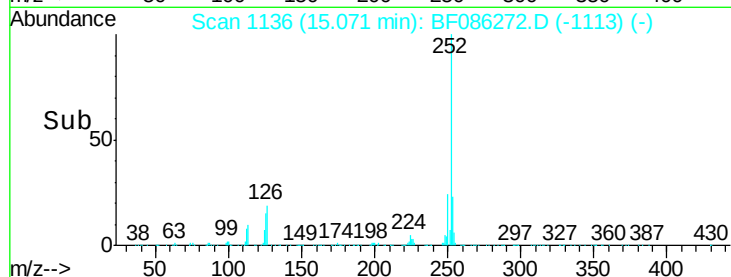
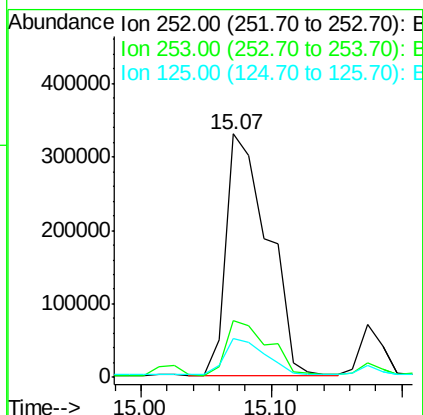
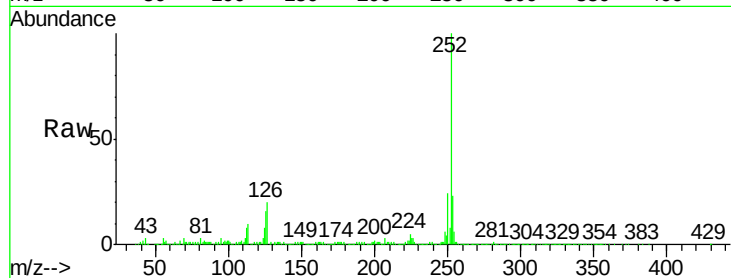




#88
Benzo(k)fluoranthene
Concen: 23.88 ng
RT: 15.07 min Scan# 1136
Delta R.T. -0.03 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

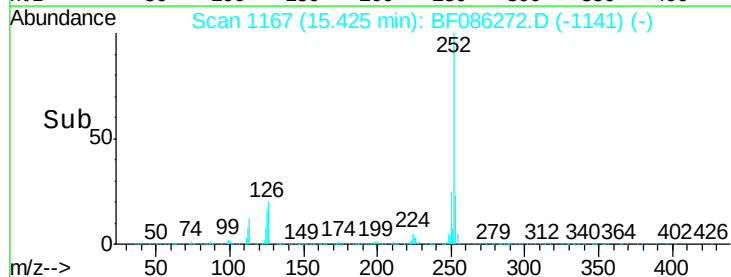
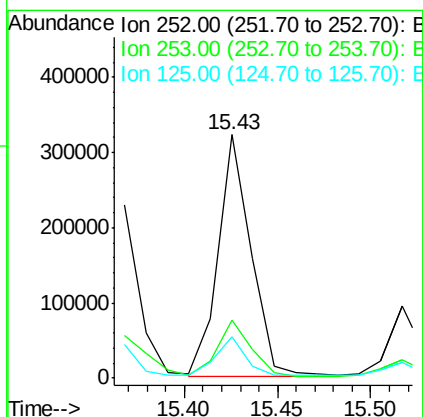
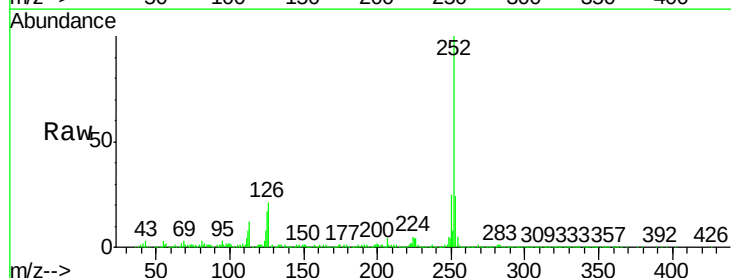
Instrument :
BNA_F
ClientSampleId :
SP-2-D-4(0-2)

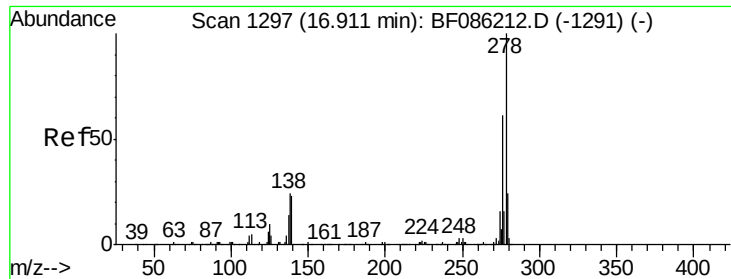
Tgt Ion: 252 Resp: 737454
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 16.2 7.8 11.6#



#89
Benzo(a)pyrene
Concen: 13.65 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.00 min
Lab File: BF086272.D
Acq: 16 Apr 2016 18:09

Tgt Ion: 252 Resp: 400360
Ion Ratio Lower Upper
252 100
253 24.1 17.8 26.8
125 17.0 11.2 16.8#





#90

Dibenzo(a,h)anthracene

Concen: 2.08 ng

RT: 16.91 min Scan# 1297

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SP-2-D-4(0-2)

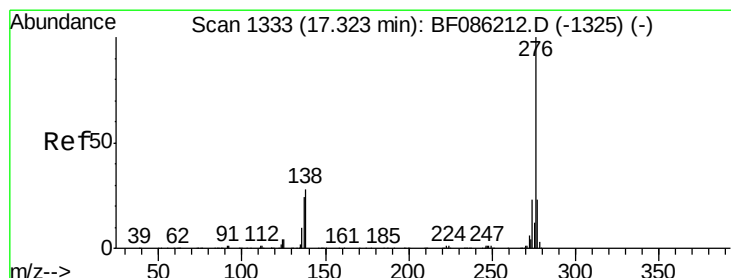
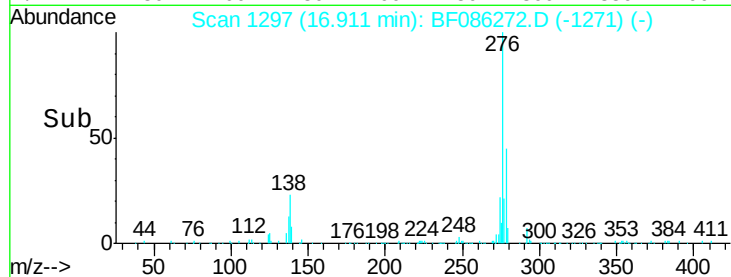
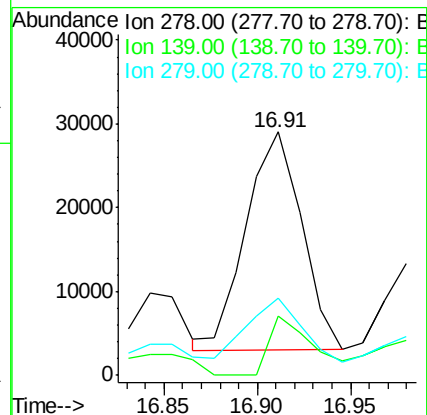
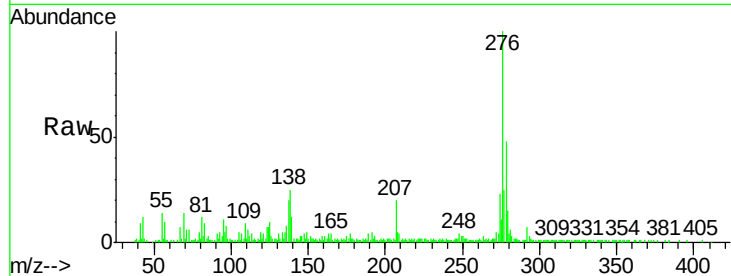
Tgt Ion: 278 Resp: 53878

Ion Ratio Lower Upper

278 100

139 24.4 15.3 22.9#

279 31.6 19.1 28.7#



#91

Benzo(g,h,i)perylene

Concen: 7.89 ng

RT: 17.32 min Scan# 1333

Delta R.T. -0.00 min

Lab File: BF086272.D

Acq: 16 Apr 2016 18:09

Tgt Ion: 276 Resp: 217455

Ion Ratio Lower Upper

276 100

277 24.3 19.0 28.6

138 28.4 19.6 29.4

