

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100917\
 Data File : BF099274.D
 Acq On : 9 Oct 2017 20:45
 Operator : SJ/JU
 Sample : I5708-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 10 01:13:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 17:20:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	109421	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	443354	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	190258	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	287801	20.00	ng	0.00
75) Chrysene-d12	14.03	240	198727	20.00	ng	0.00
86) Perylene-d12	15.51	264	194172	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	145063	21.10	ng	0.00
7) Phenol-d6	6.49	99	174624	20.59	ng	-0.01
23) Nitrobenzene-d5	7.42	82	97667	14.13	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	28554	18.34	ng	-0.01
44) 2-Fluorobiphenyl	9.22	172	211849	18.59	ng	-0.01
78) Terphenyl-d14	12.96	244	133047	15.23	ng	-0.01

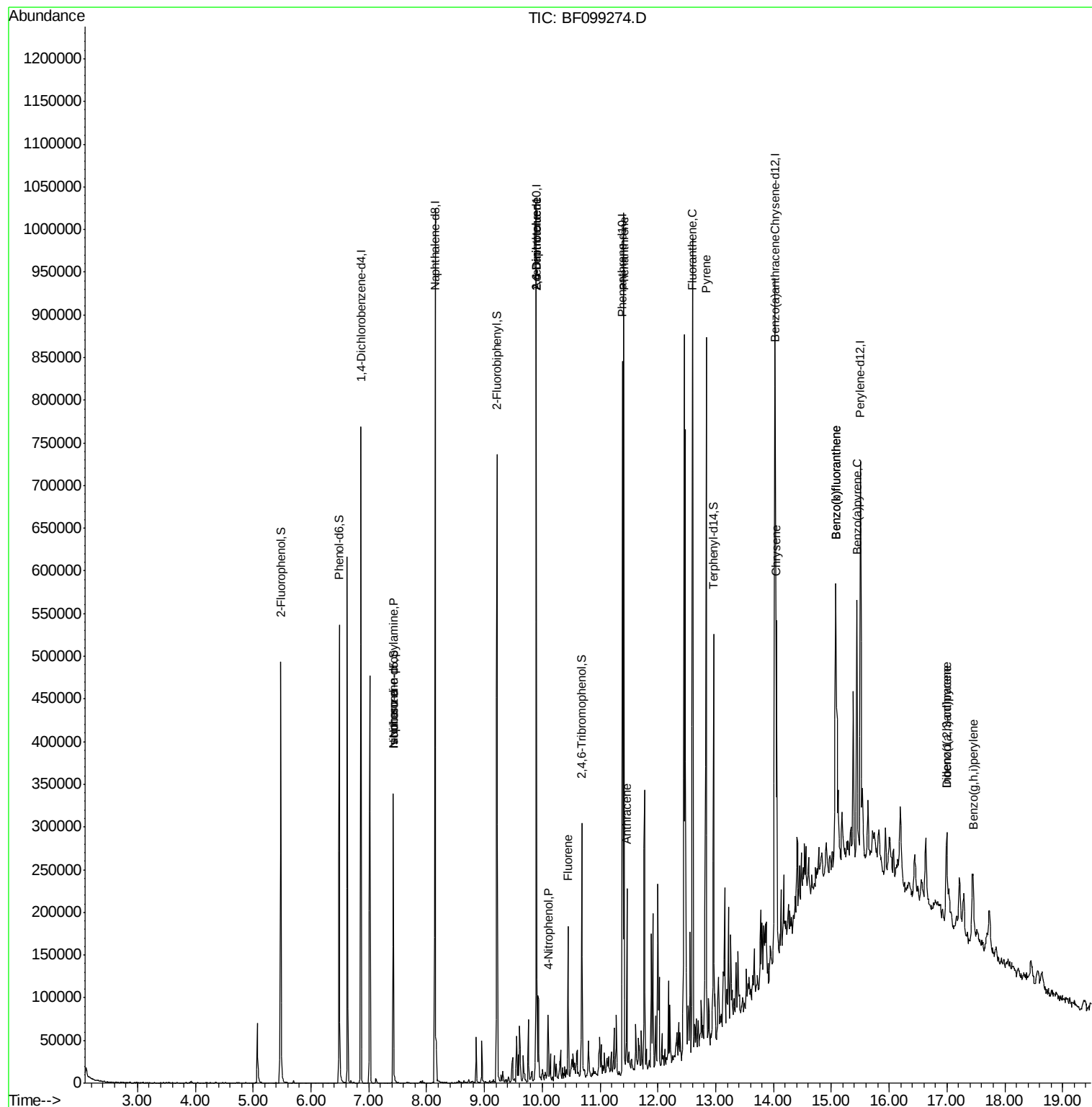
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.42	70	12379	2.29	ng	# 75
25) Isophorone	7.42	82	97666	6.83	ng	# 64
50) 2,6-Dinitrotoluene	9.90	165	25444	8.14	ng	# 24
55) 4-Nitrophenol	10.10	139	9787	3.18	ng	# 12
56) 2,4-Dinitrotoluene	9.90	165	25444	6.27	ng	# 22
57) Fluorene	10.45	166	47007	3.69	ng	97
70) Phenanthrene	11.41	178	340477	22.10	ng	98
71) Anthracene	11.46	178	79049	5.02	ng	94
74) Fluoranthene	12.60	202	378770	24.28	ng	99
77) Pyrene	12.83	202	343377	22.66	ng	98
80) Benzo(a)anthracene	14.02	228	154569	12.84	ng	99
82) Chrysene	14.05	228	145186	12.67	ng	97
85) Indeno(1,2,3-cd)pyrene	16.99	276	62865	6.86	ng	98
87) Benzo(b)fluoranthene	15.07	252	235142	19.70	ng	# 94
88) Benzo(k)fluoranthene	15.07	252	235142	19.94	ng	# 97
89) Benzo(a)pyrene	15.44	252	131129	11.97	ng	# 95
90) Dibenzo(a,h)anthracene	17.00	278	17567	2.00	ng	# 82
91) Benzo(g,h,i)perylene	17.44	276	60336	6.96	ng	95

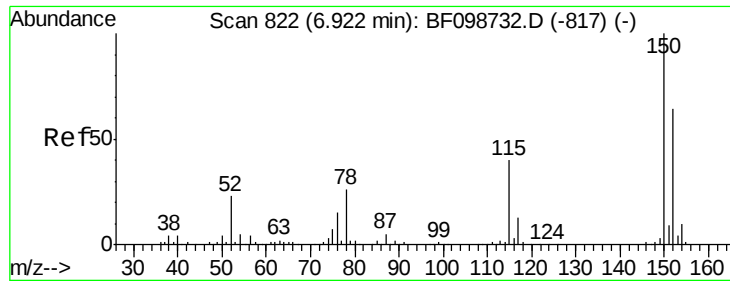
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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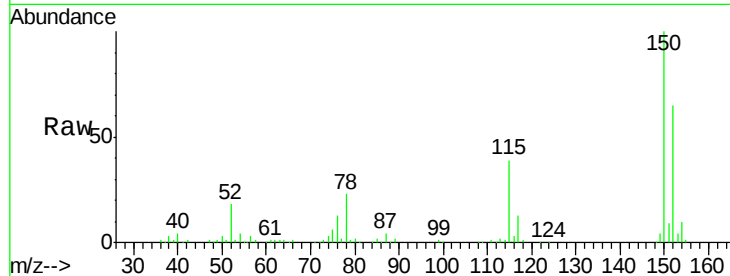


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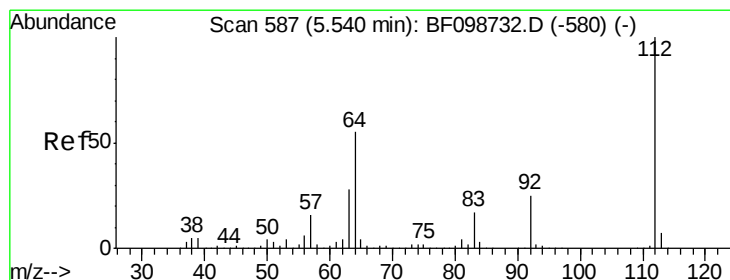
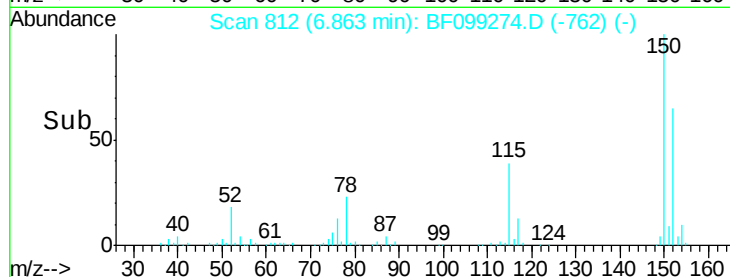
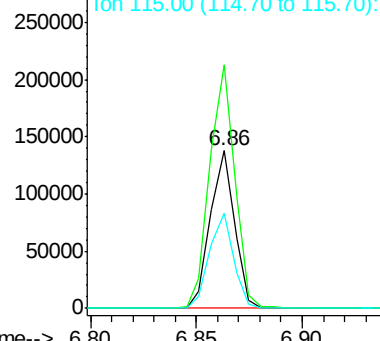
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 109421
Ion Ratio Lower Upper
152 100
150 154.7 124.6 186.8
115 60.6 50.1 75.1



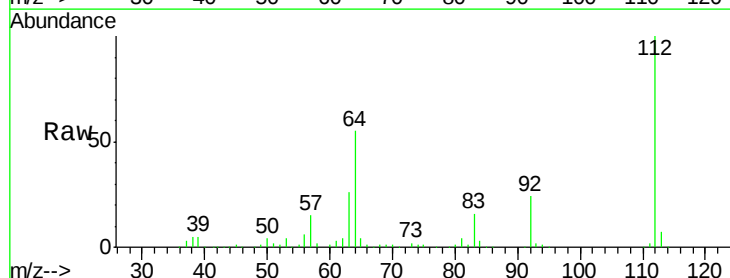
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



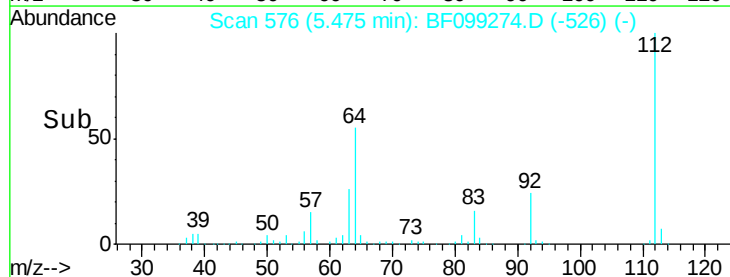
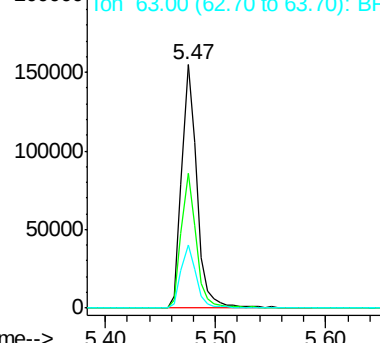
#5

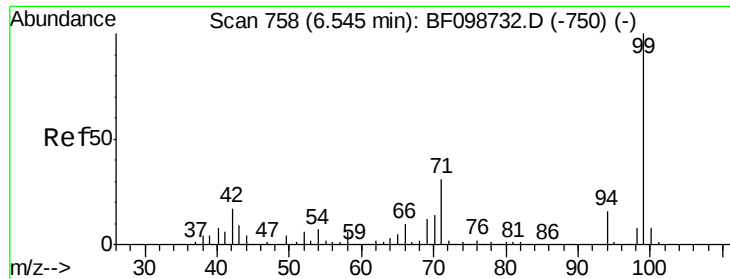
2-Fluorophenol
Concen: 21.10 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Tgt Ion:112 Resp: 145063
Ion Ratio Lower Upper
112 100
64 55.5 47.9 71.9
63 25.9 23.7 35.5



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: 20.59 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Instrument :

BNA_F

ClientSampleId :

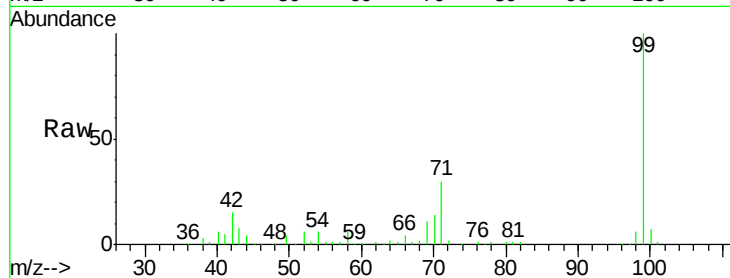
Tot Ion: 99 Resp: 174624

Ion Ratio Lower Upper

99 100

42 15.3 14.5 21.7

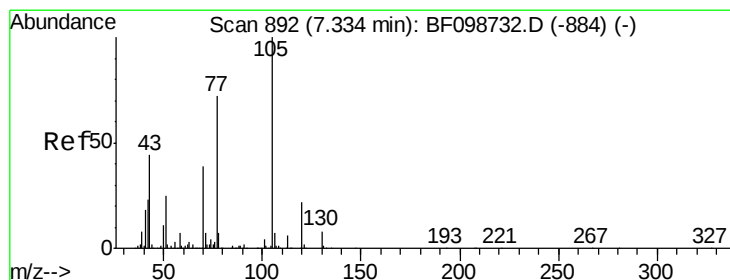
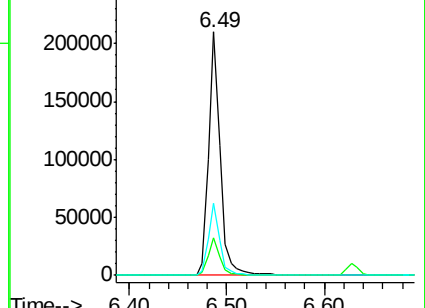
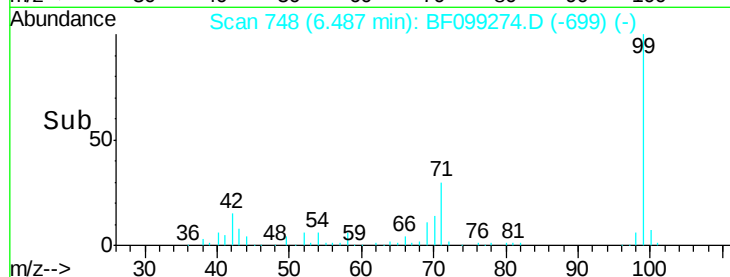
71 29.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 2.29 ng

RT: 7.42 min Scan# 907

Delta R.T. 0.14 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Tgt Ion: 70 Resp: 12379

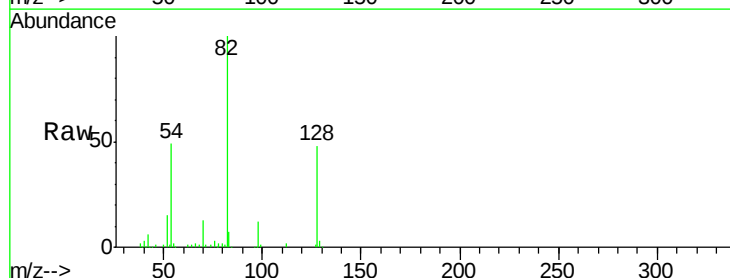
Ion Ratio Lower Upper

70 100

42 44.2 47.5 71.3#

101 0.0 7.4 11.2#

130 2.4 16.6 25.0#

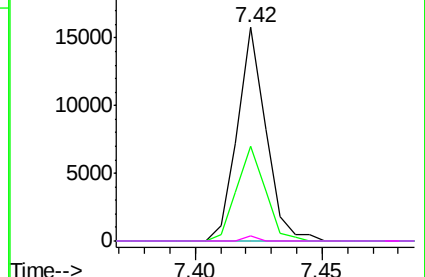
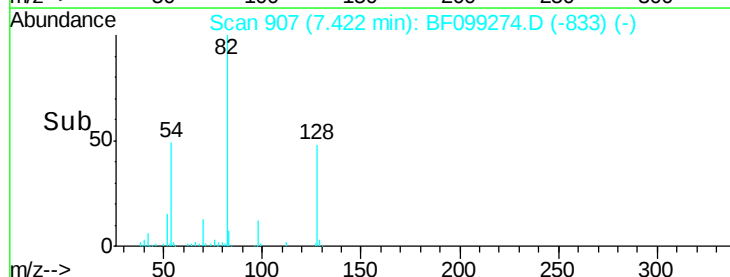


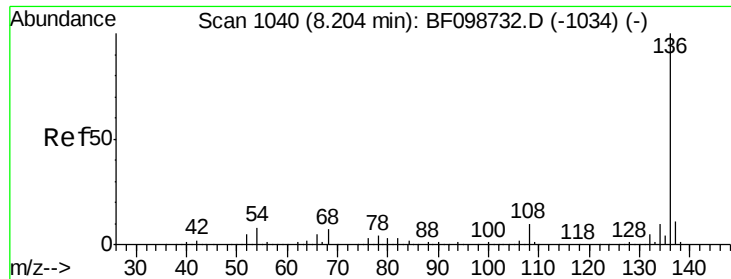
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

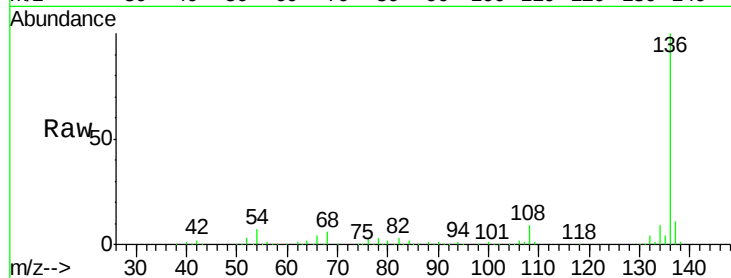




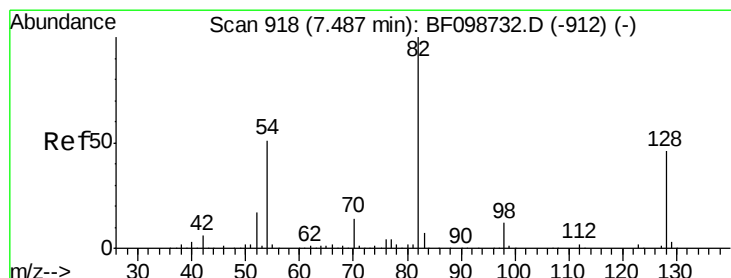
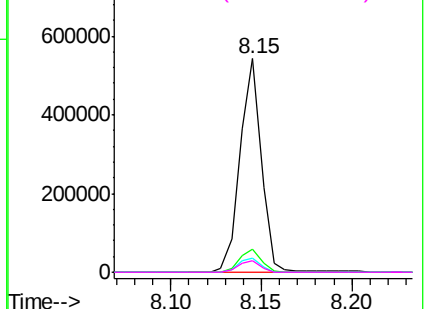
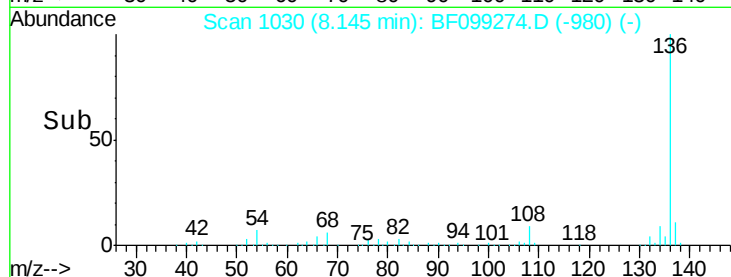
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.01 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	443354
Ion Ratio	Lower	Upper
136	100	
137	10.8	8.9 13.3
54	6.8	6.6 9.8
68	5.5	5.0 7.4

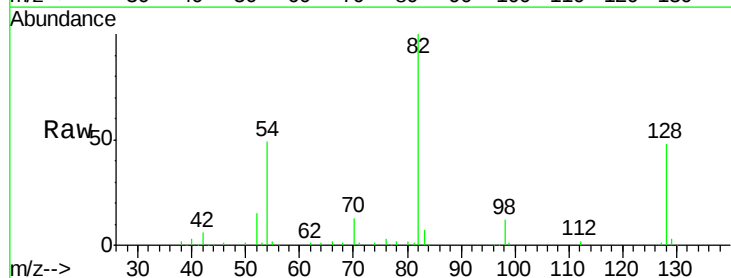


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

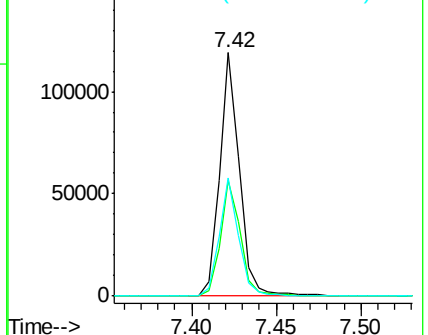
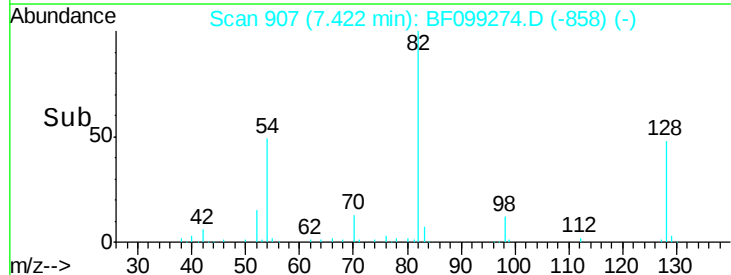


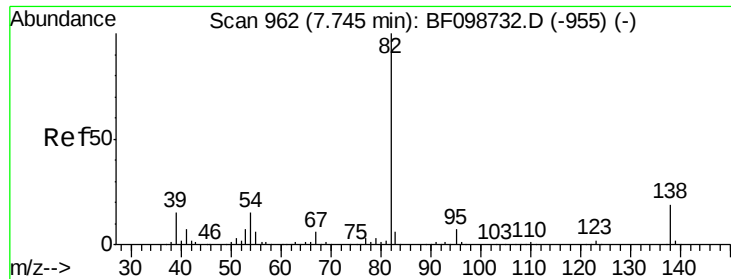
#23
Nitrobenzene-d5
Concen: 14.13 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Tgt Ion: 82	Resp:	97667
Ion Ratio	Lower	Upper
82	100	
128	47.7	36.1 54.1
54	48.5	41.4 62.2



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





#25

Isophorone

Concen: 6.83 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.27 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Instrument :

BNA_F

ClientSampleId :

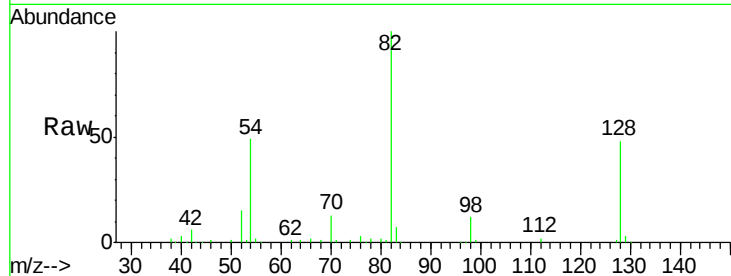
Tot Ion: 82 Resp: 97666

Ion Ratio Lower Upper

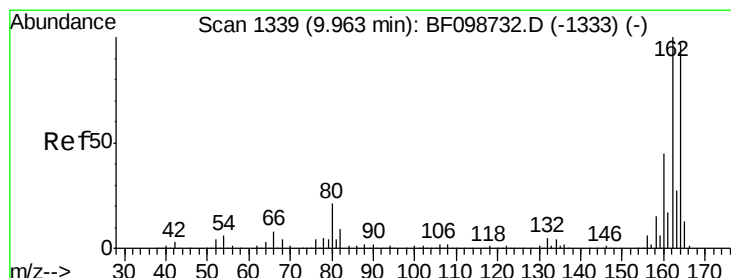
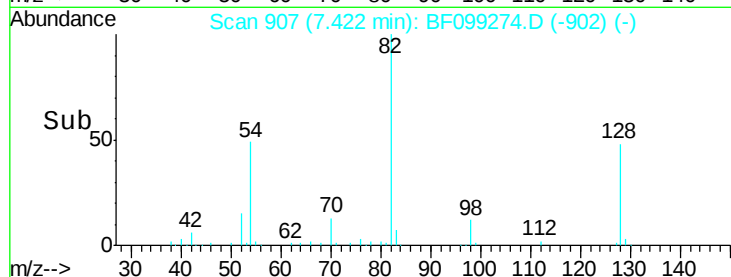
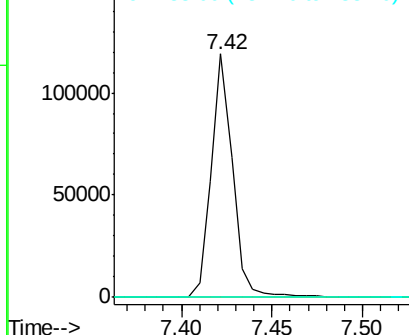
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

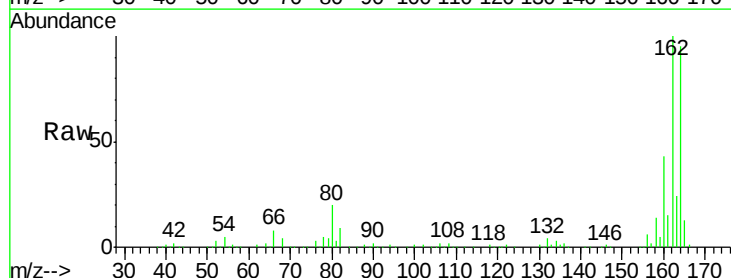
Tgt Ion:164 Resp: 190258

Ion Ratio Lower Upper

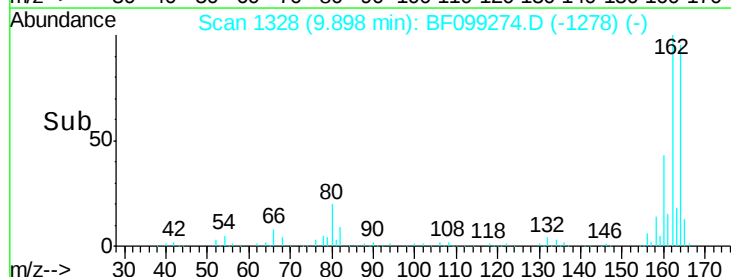
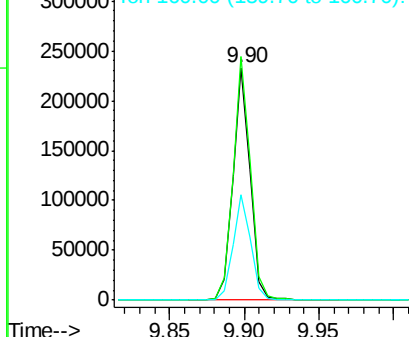
164 100

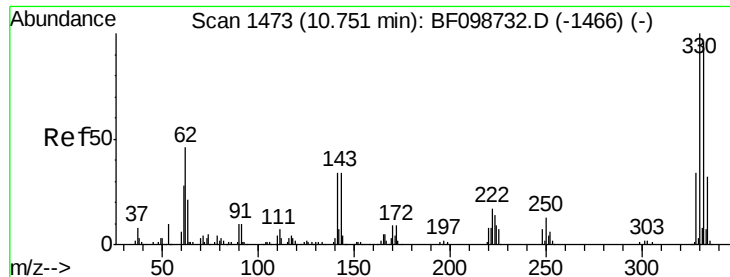
162 104.8 86.1 129.1

160 45.4 38.3 57.5



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

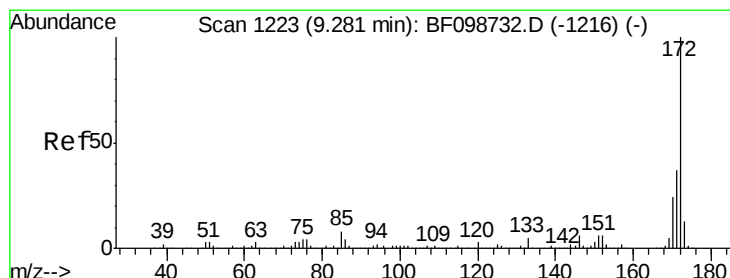
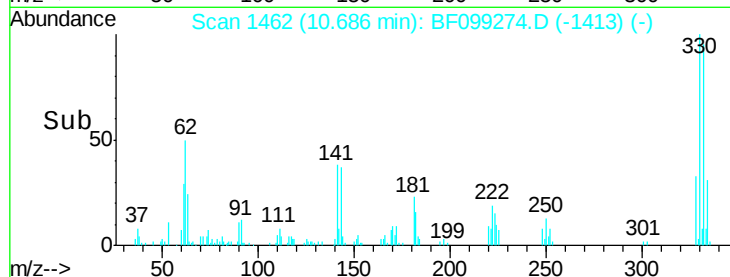
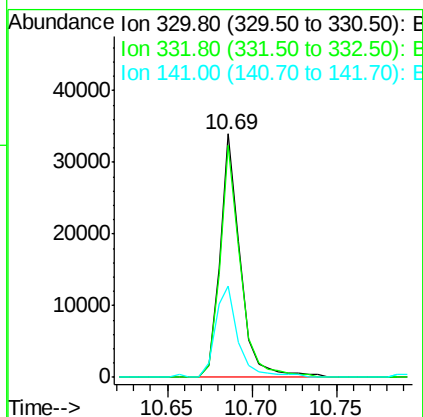
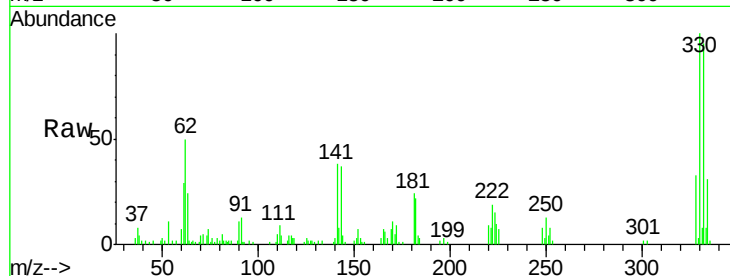




#41
 2,4,6-Tribromophenol
 Concen: 18.34 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

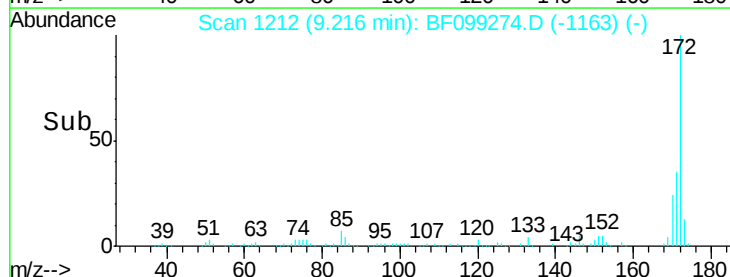
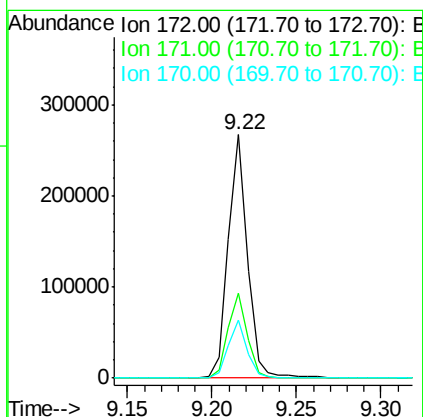
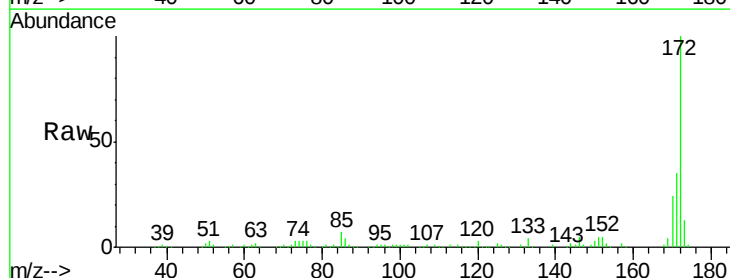
Instrument :
 BNA_F
 ClientSampled :

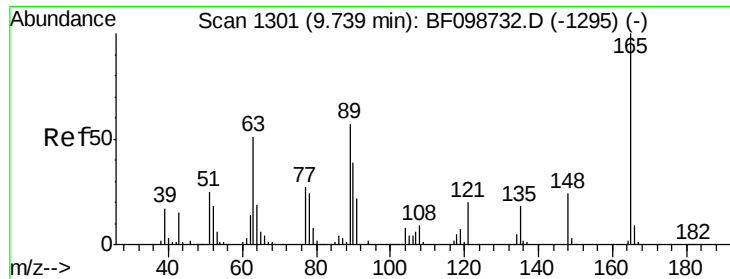
Tot Ion:330 Resp: 28554
 Ion Ratio Lower Upper
 330 100
 332 95.6 77.0 115.6
 141 42.7 29.9 44.9



#44
 2-Fluorobiphenyl
 Concen: 18.59 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

Tgt Ion:172 Resp: 211849
 Ion Ratio Lower Upper
 172 100
 171 34.9 29.7 44.5
 170 23.7 19.6 29.4

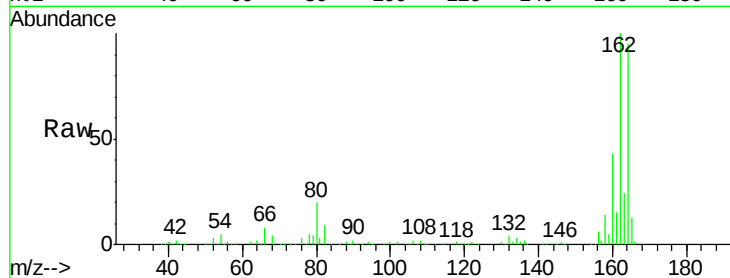




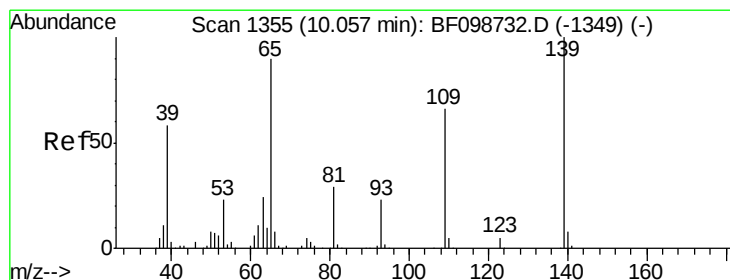
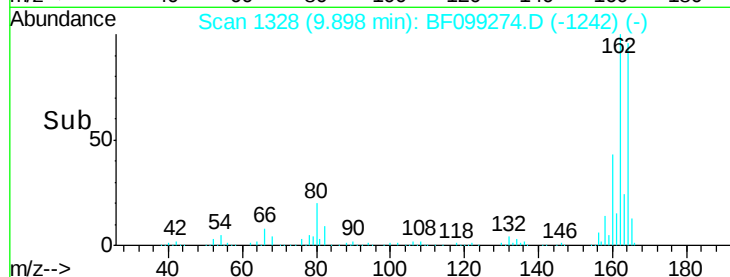
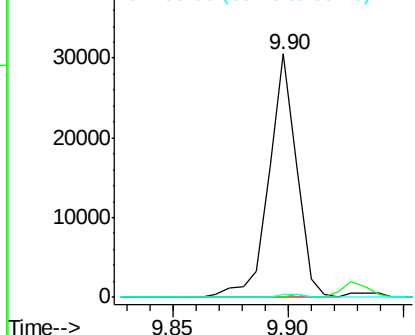
#50
 2,6-Dinitrotoluene
 Concen: 8.14 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. 0.21 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	1.2	44.0	66.0#

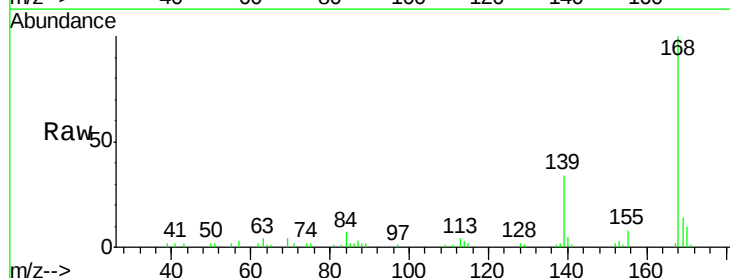


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

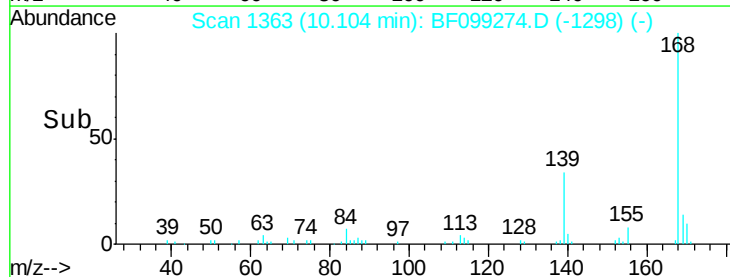
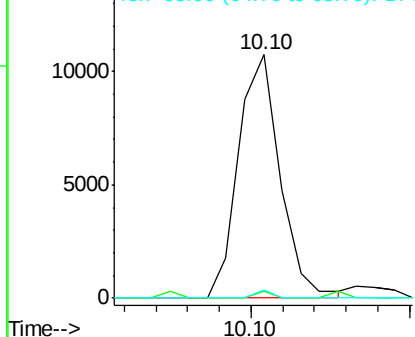


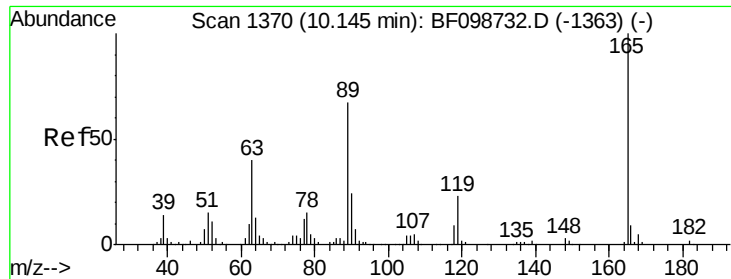
#55
 4-Nitrophenol
 Concen: 3.18 ng
 RT: 10.10 min Scan# 1363
 Delta R.T. 0.08 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

Tgt Ion	Ratio	Lower	Upper
139	100		
109	3.0	48.4	88.4#
65	3.3	72.6	112.6#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF0

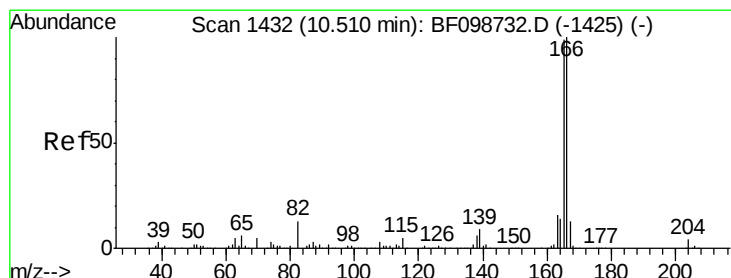
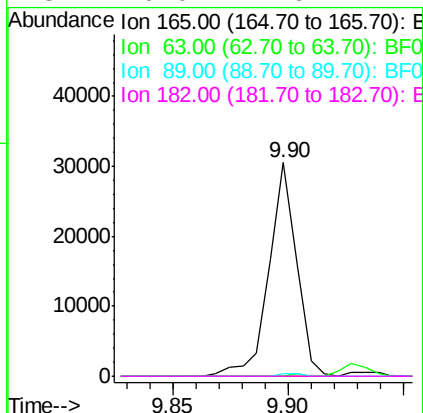
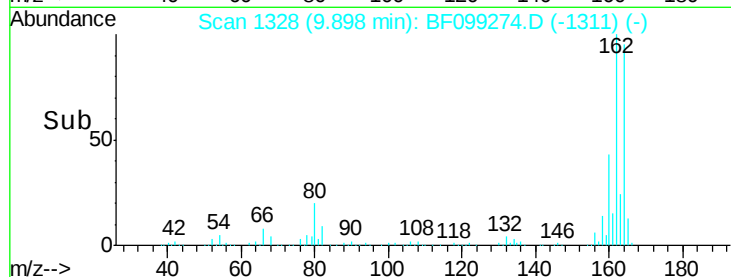
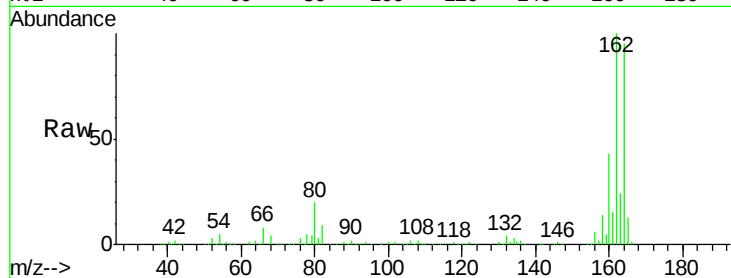




#56
2,4-Dinitrotoluene
Concen: 6.27 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.20 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

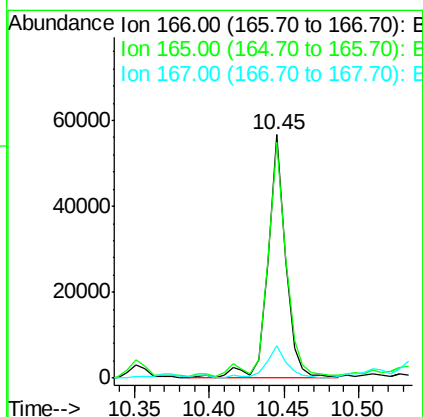
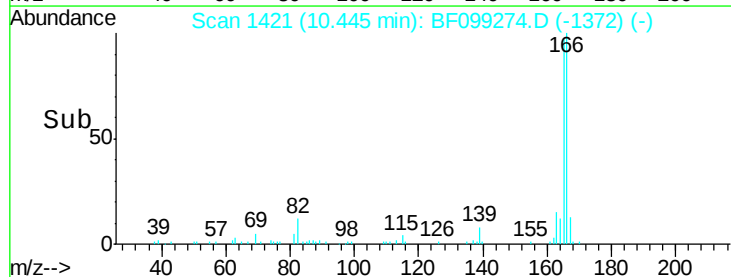
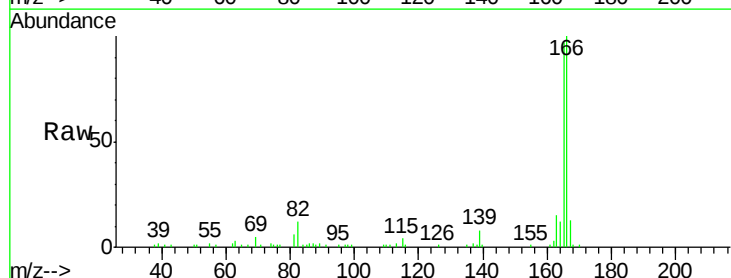
Instrument :
BNA_F
ClientSampleId :

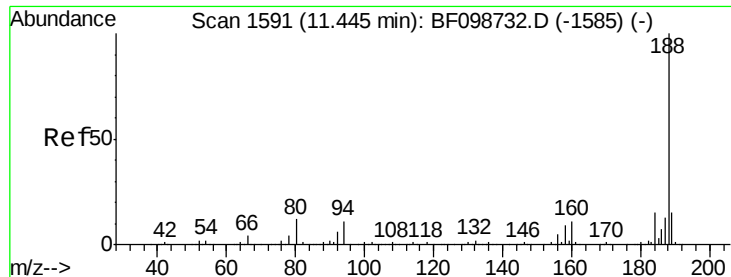
Tot Ion:165	Resp:	25444
Ion Ratio	Lower	Upper
165	100	
63	0.0	36.4 54.6#
89	1.2	57.8 86.6#
182	0.0	1.6 2.4#



#57
Fluorene
Concen: 3.69 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Tgt Ion:166	Resp:	47007
Ion Ratio	Lower	Upper
166	100	
165	96.8	79.8 119.8
167	13.2	10.6 16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Instrument :

BNA_F

ClientSampleId :

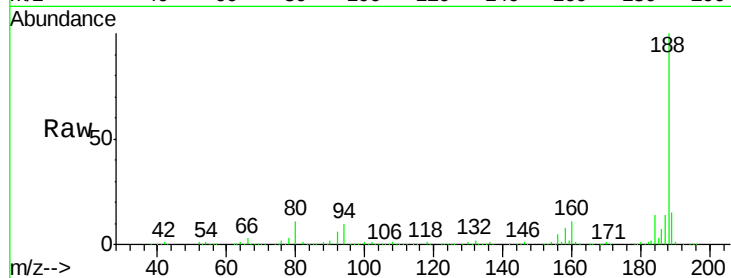
Tot Ion:188 Resp: 287801

Ion Ratio Lower Upper

188 100

94 10.0 8.5 12.7

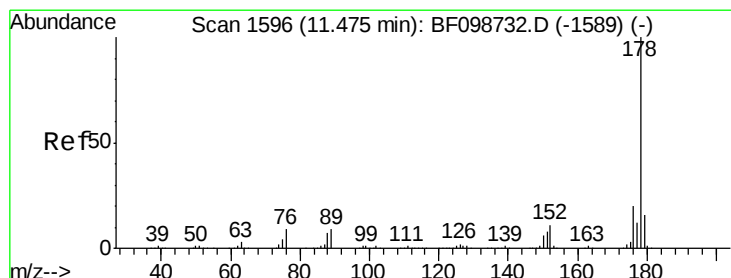
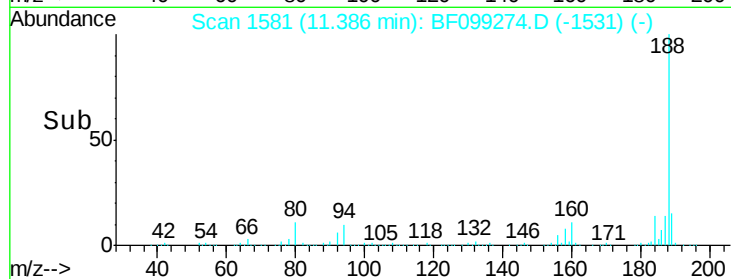
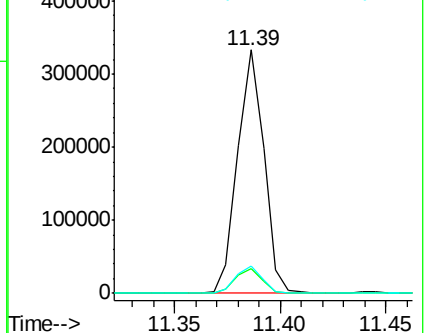
80 11.4 9.2 13.8



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



#70

Phenanthrene

Concen: 22.10 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

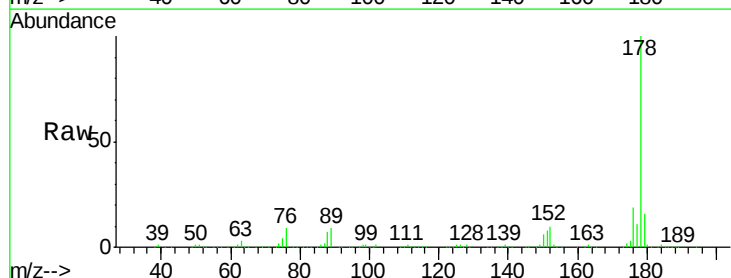
Tgt Ion:178 Resp: 340477

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.8

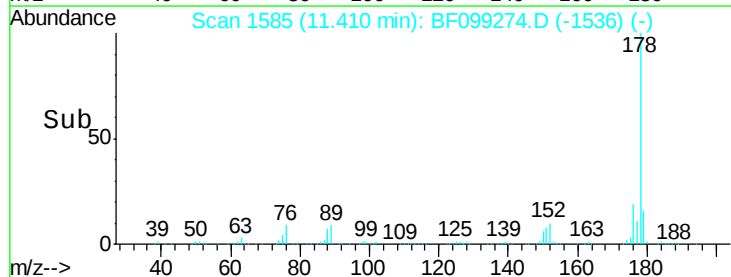
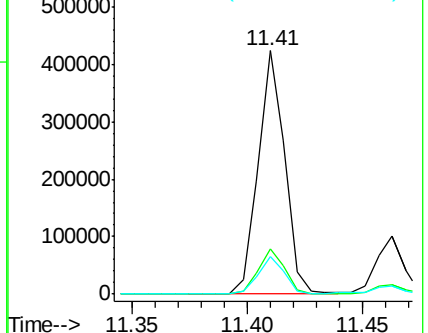
179 15.6 13.0 19.6

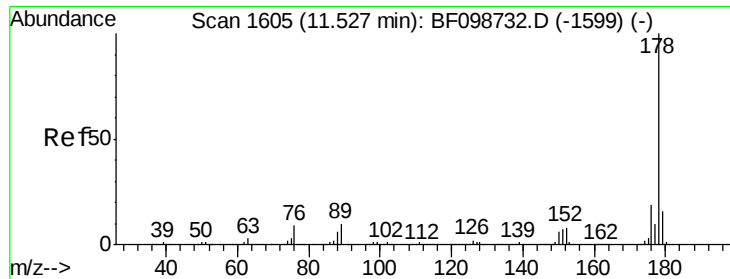


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

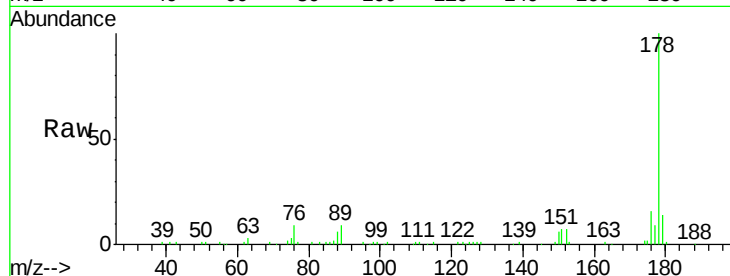




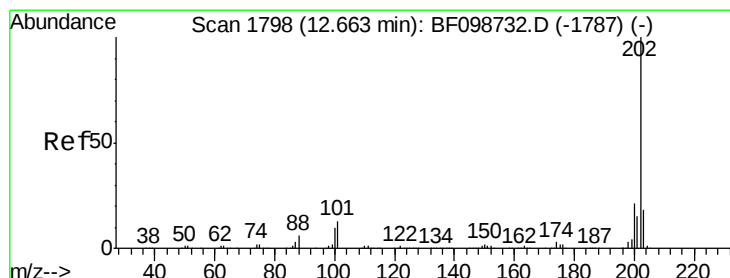
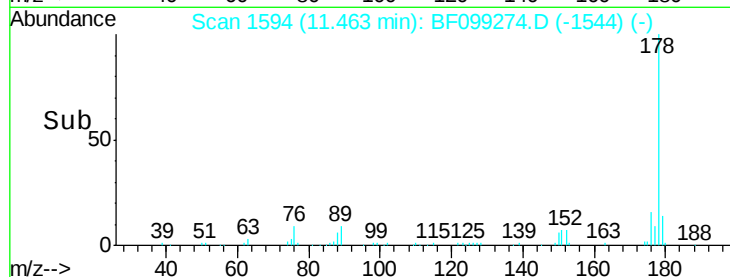
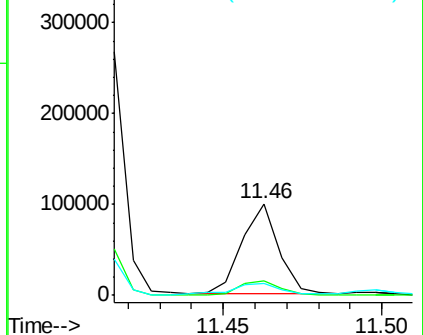
#71
 Anthracene
 Concen: 5.02 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 79049
 Ion Ratio Lower Upper
 178 100
 176 16.1 15.4 23.2
 179 13.7 12.6 19.0

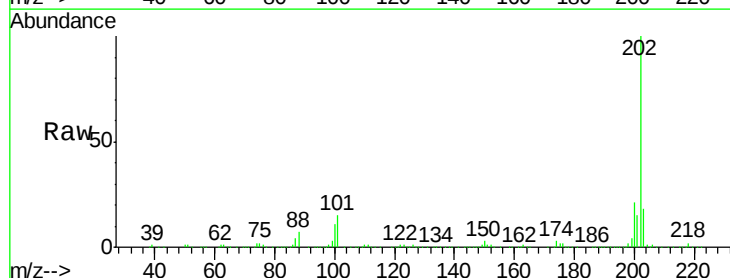


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

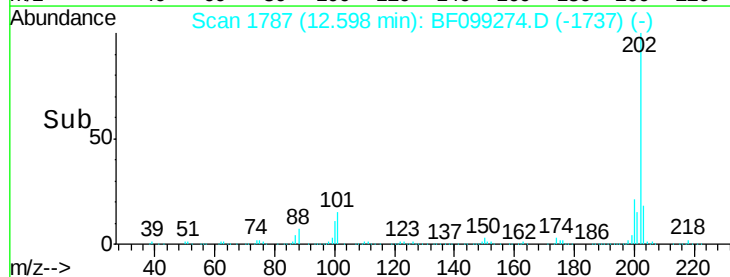
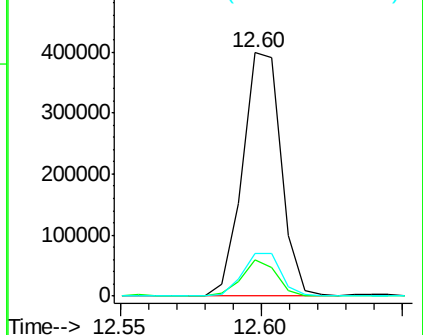


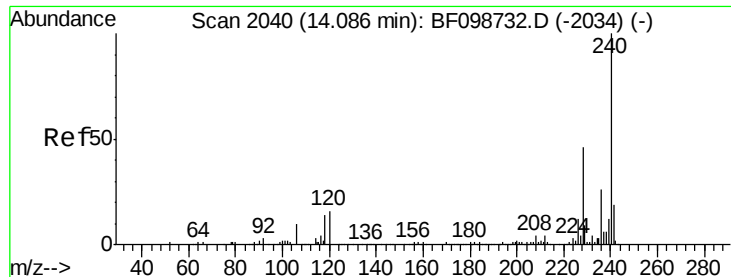
#74
 Fluoranthene
 Concen: 24.28 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.01 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

Tgt Ion:202 Resp: 378770
 Ion Ratio Lower Upper
 202 100
 101 14.7 0.0 34.1
 203 17.8 0.0 38.1



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Instrument :

BNA_F

ClientSampleId :

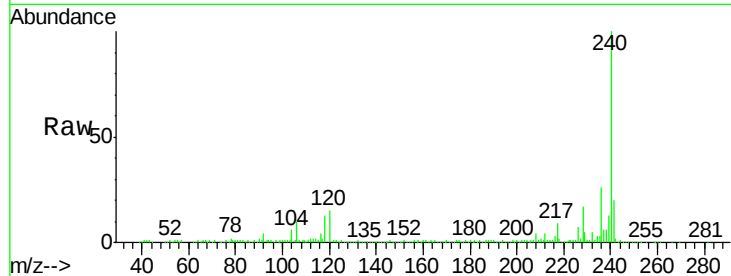
Tot Ion:240 Resp: 198727

Ion Ratio Lower Upper

240 100

120 15.3 9.5 14.3#

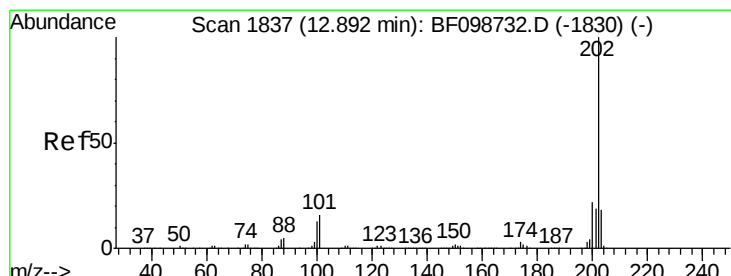
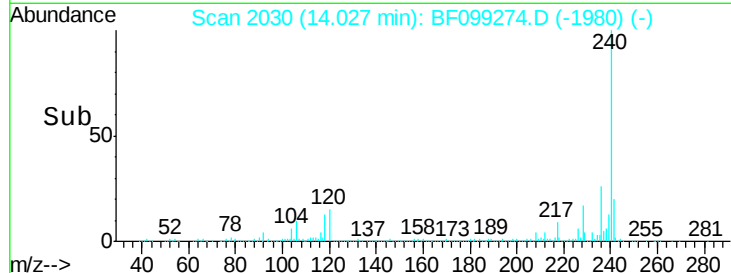
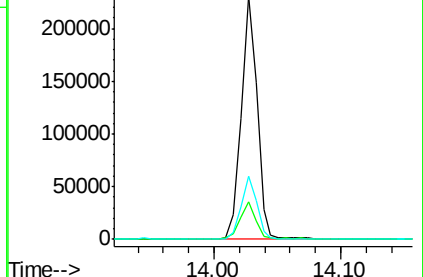
236 26.0 20.7 31.1



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: 22.66 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

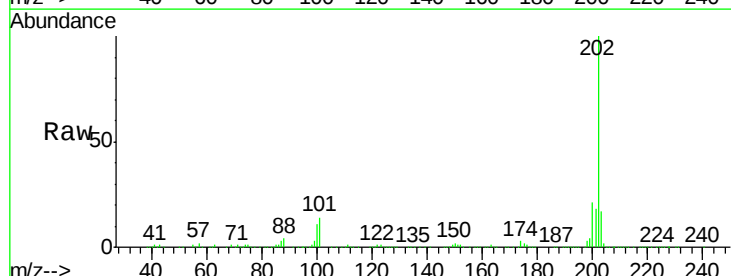
Tgt Ion:202 Resp: 343377

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

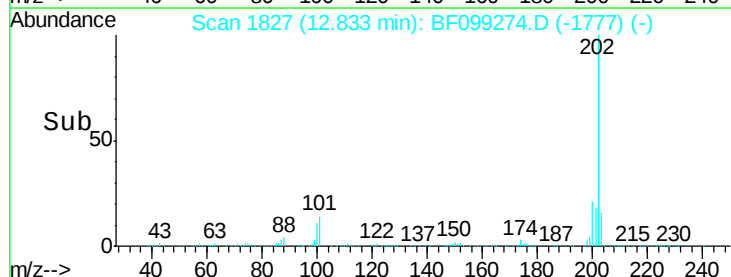
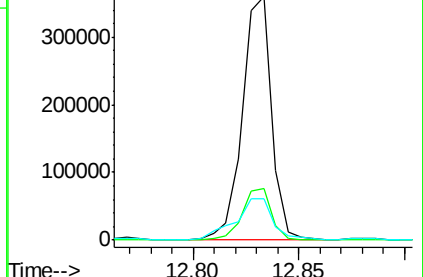
203 16.9 14.3 21.5

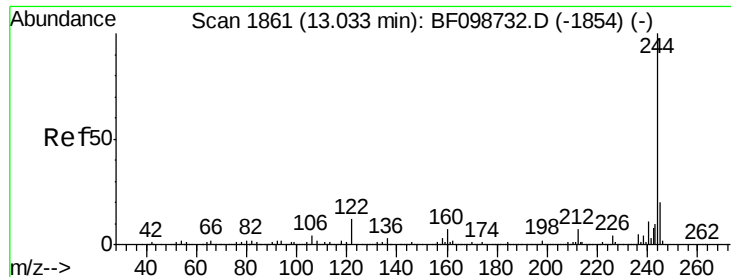


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

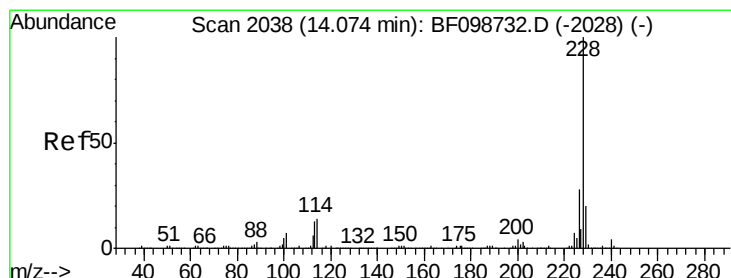
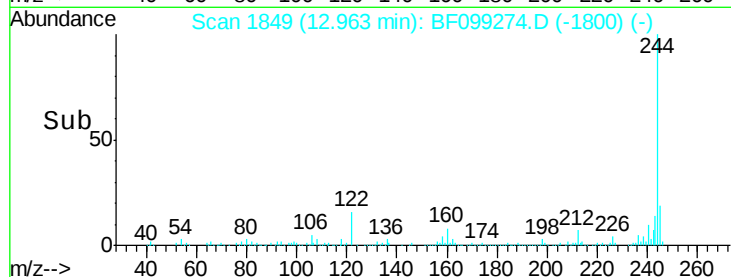
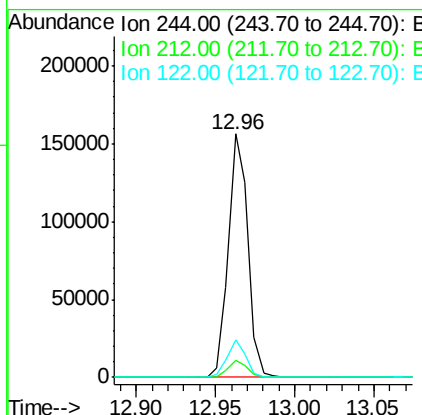
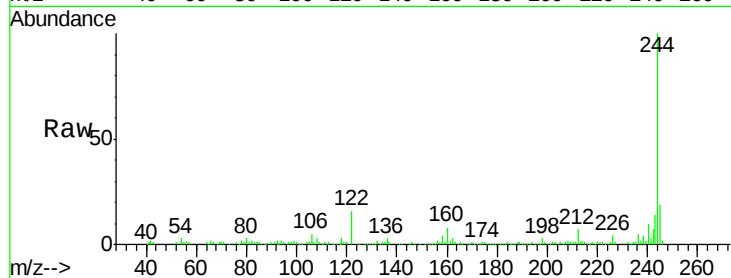




#78
 Terphenyl-d14
 Concen: 15.23 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

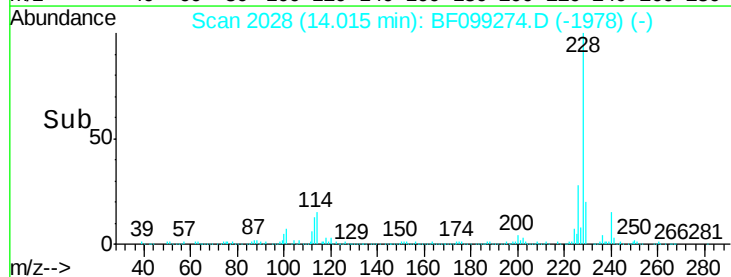
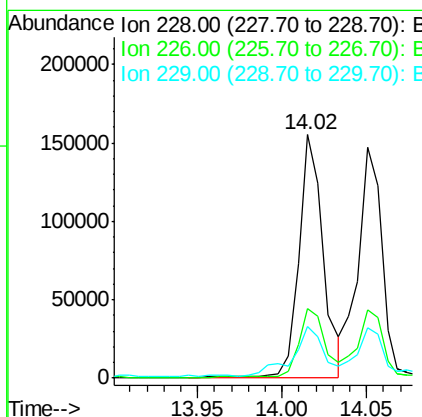
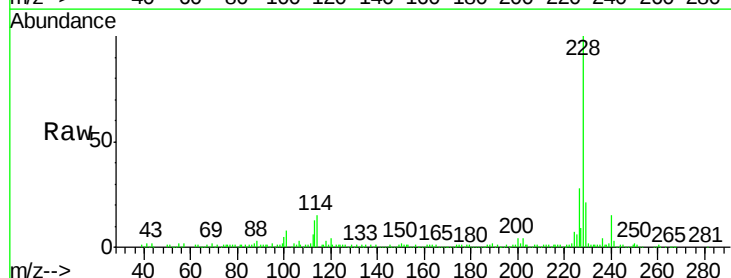
Instrument :
 BNA_F
 ClientSampleId :

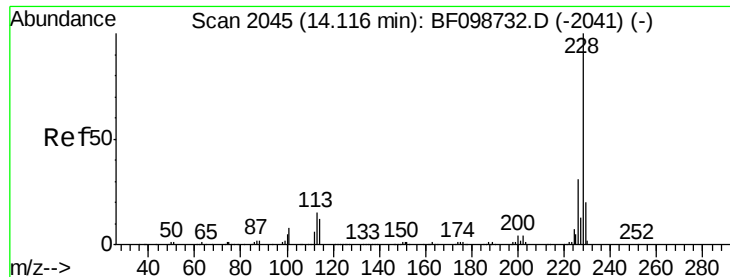
Tot Ion:244 Resp: 133047
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.0
 122 15.5 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 12.84 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: BF099274.D
 Acq: 9 Oct 2017 20:45

Tgt Ion:228 Resp: 154569
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.6 33.8
 229 21.0 15.8 23.6





#82

Chrysene

Concen: 12.67 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

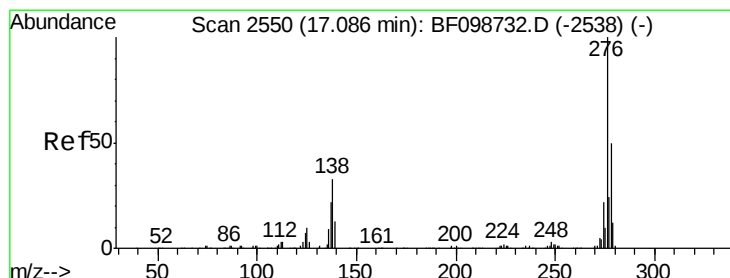
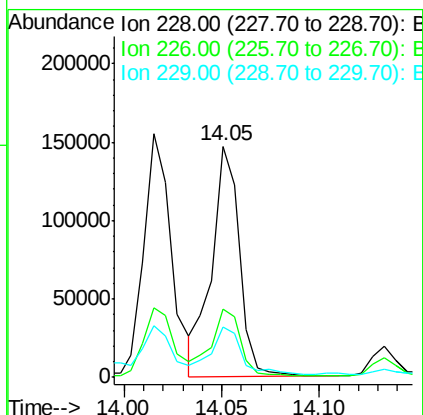
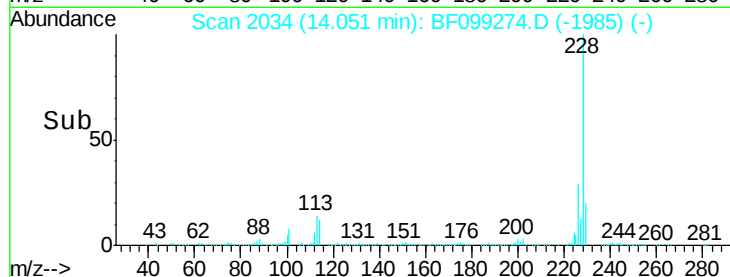
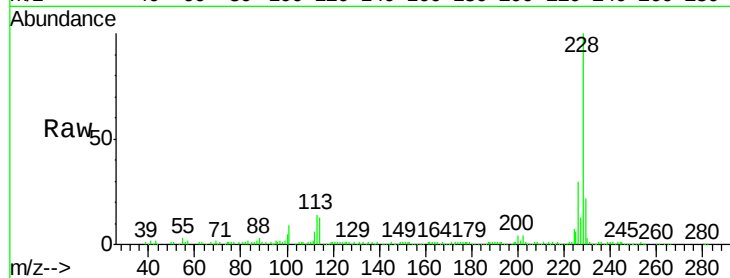
Instrument :

BNA_F

ClientSampled :

Tot Ion:228 Resp: 145186

Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.0	37.6
229	21.5	16.2	24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.86 ng

RT: 16.99 min Scan# 2534

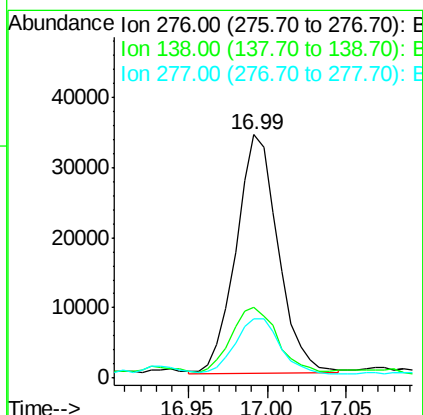
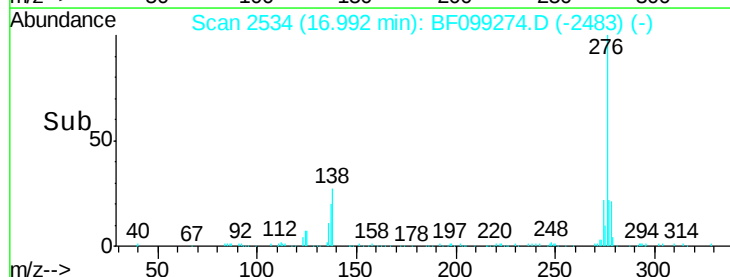
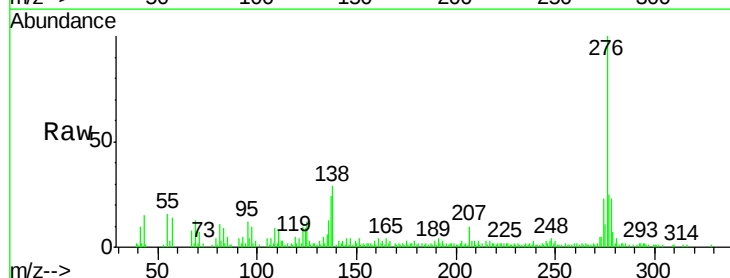
Delta R.T. -0.00 min

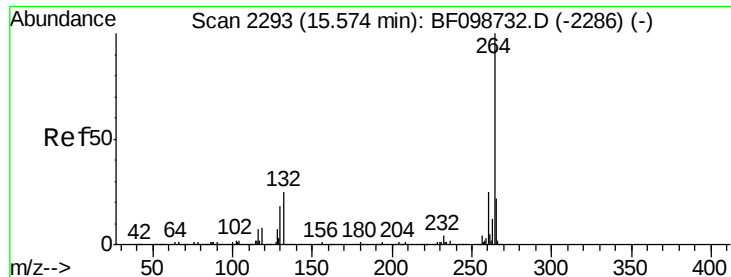
Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Tgt Ion:276 Resp: 62865

Ion	Ratio	Lower	Upper
276	100		
138	29.5	25.0	37.6
277	24.4	20.1	30.1

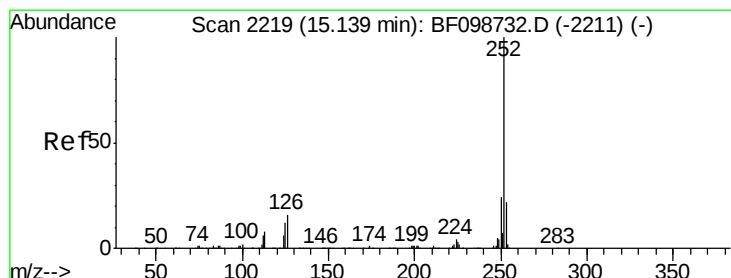
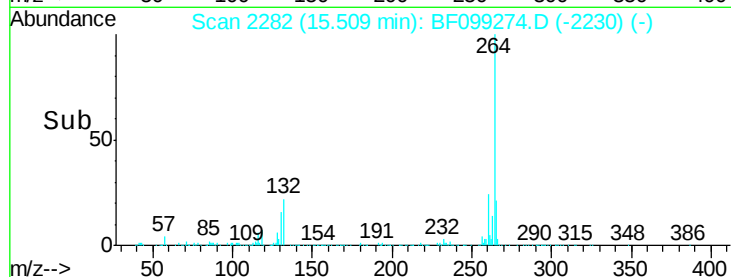
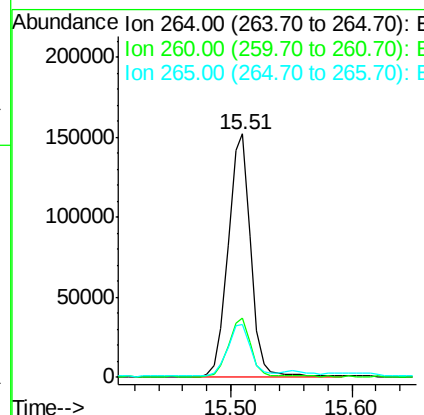
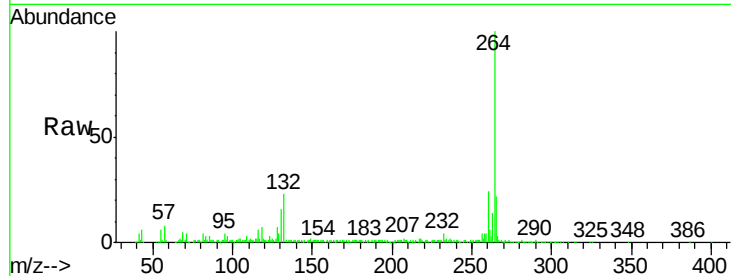




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.01 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

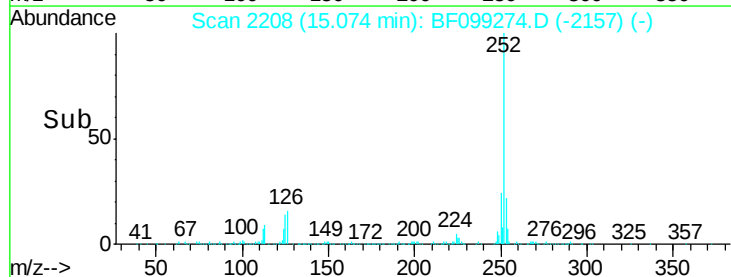
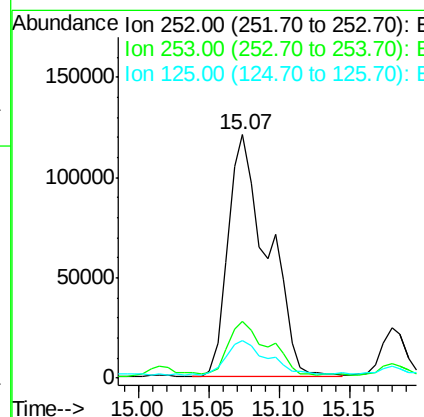
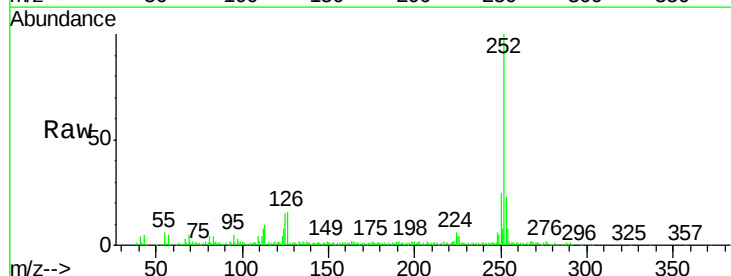
Instrument :
BNA_F
ClientSampleId :

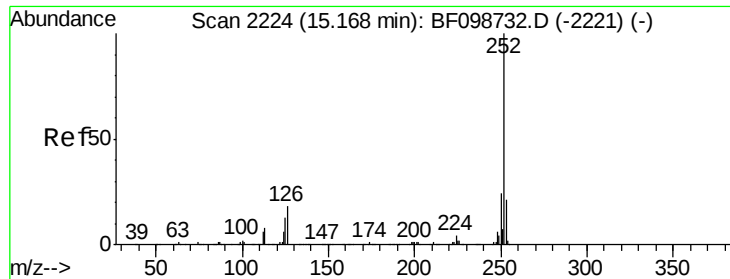
Tot Ion:264 Resp: 194172
Ion Ratio Lower Upper
264 100
260 24.2 19.2 28.8
265 21.7 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 19.70 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.00 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Tgt Ion:252 Resp: 235142
Ion Ratio Lower Upper
252 100
253 23.1 17.0 25.6
125 15.3 9.0 13.6#

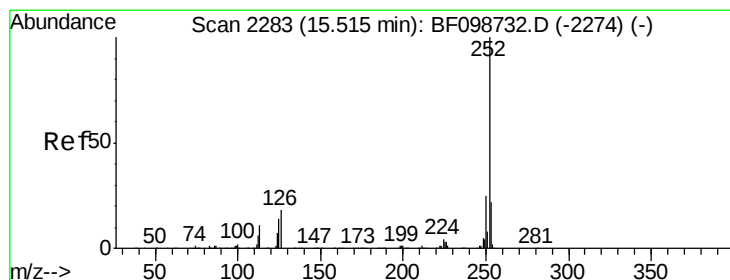
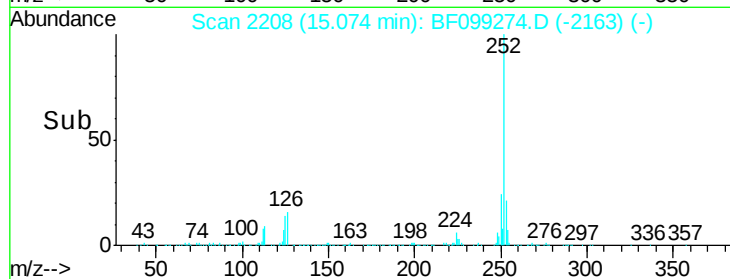
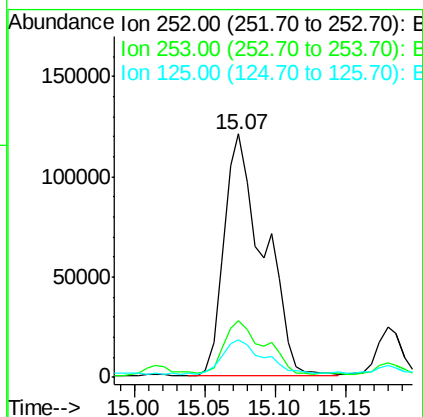
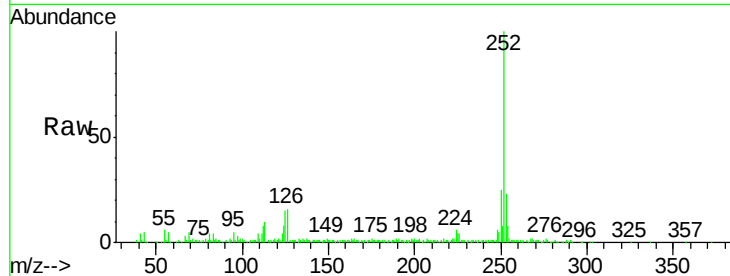




#88
Benzo(k)fluoranthene
Concen: 19.94 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.04 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

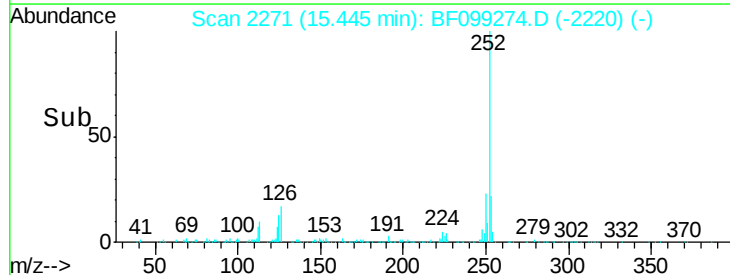
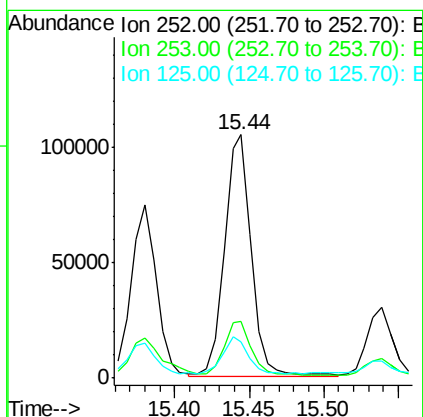
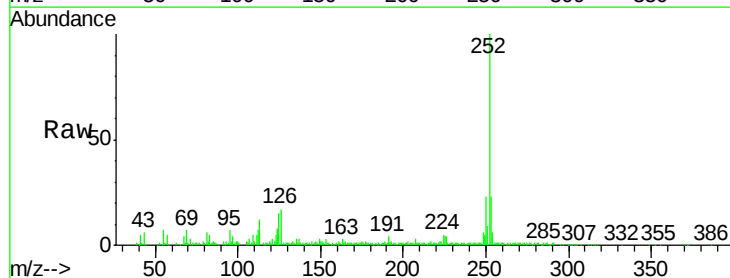
Instrument :
BNA_F
ClientSampleId :

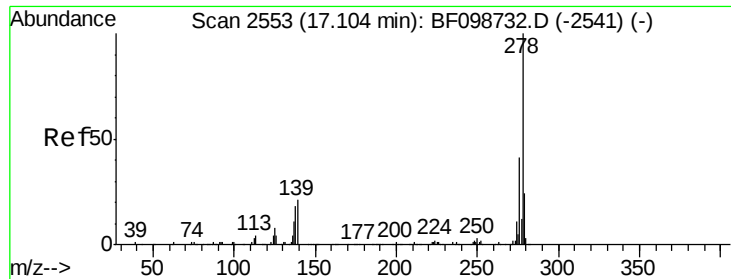
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	15.3	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 11.97 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.00 min
Lab File: BF099274.D
Acq: 9 Oct 2017 20:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	14.8	9.8	14.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.00 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

Instrument :

BNA_F

ClientSampled :

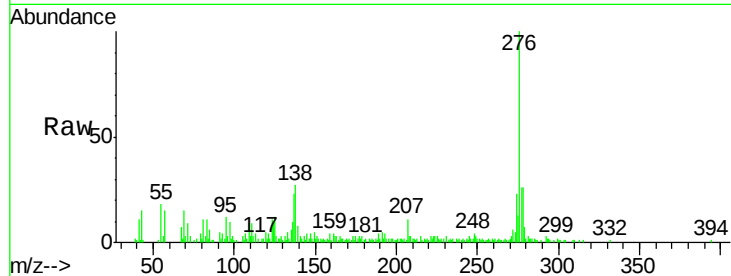
Tot Ion:278 Resp: 17567

Ion Ratio Lower Upper

278 100

139 31.8 15.9 23.9#

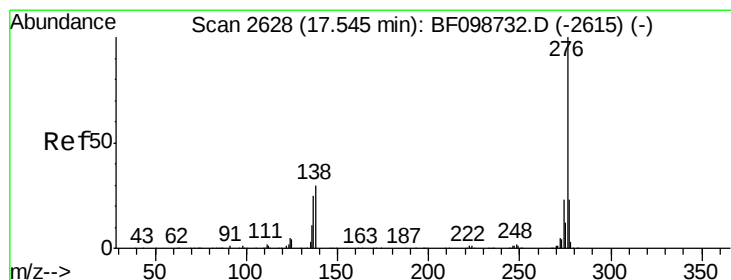
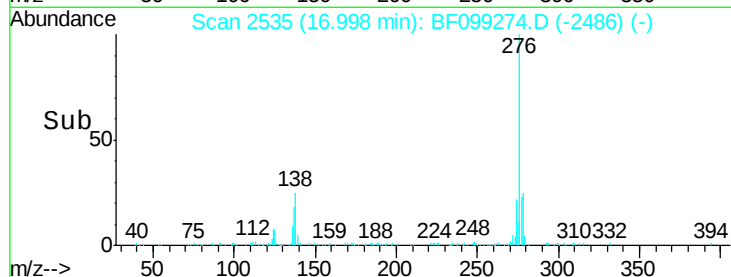
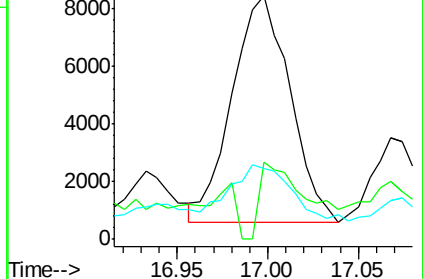
279 29.1 19.0 28.4#



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



#91

Benzo(g,h,i)perylene

Concen: 6.96 ng

RT: 17.44 min Scan# 2611

Delta R.T. -0.00 min

Lab File: BF099274.D

Acq: 9 Oct 2017 20:45

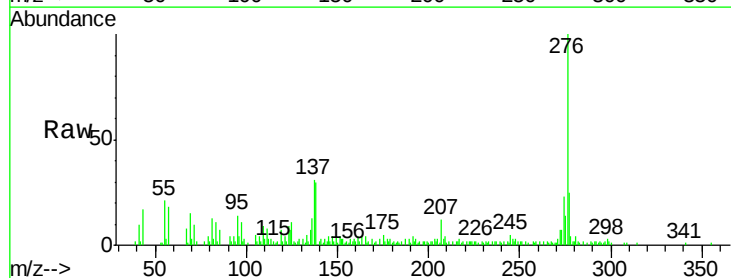
Tgt Ion:276 Resp: 60336

Ion Ratio Lower Upper

276 100

277 25.3 17.9 26.9

138 29.9 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

