

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101017\
 Data File : BF099300.D
 Acq On : 10 Oct 2017 14:43
 Operator : SJ/JU
 Sample : I5715-07-25X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 10 16:06:55 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	105682	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	433701	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	196292	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	351184	20.00	ng	0.00
75) Chrysene-d12	14.03	240	235755	20.00	ng	0.00
86) Perylene-d12	15.50	264	176658	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	27992	4.22	ng	0.00
7) Phenol-d6	6.49	99	35077	4.28	ng	-0.01
23) Nitrobenzene-d5	7.42	82	19002	2.81	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	4614	2.87	ng	-0.01
44) 2-Fluorobiphenyl	9.22	172	44329	3.77	ng	-0.01
78) Terphenyl-d14	12.96	244	44609	4.30	ng	-0.01

Target Compounds

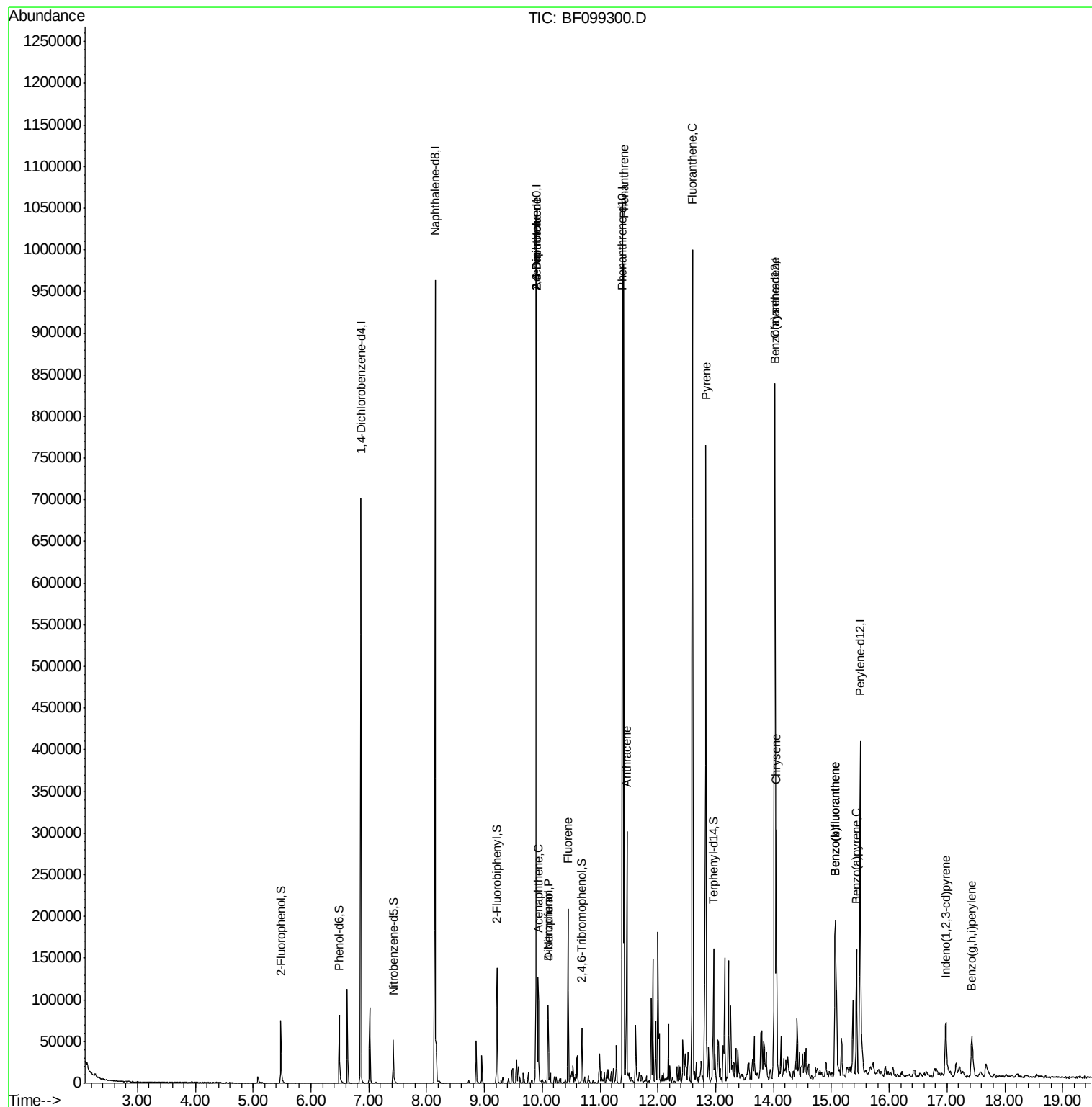
						Qvalue
50) 2,6-Dinitrotoluene	9.90	165	25710	7.971	ng	# 25
51) Acenaphthene	9.93	154	24958	2.032	ng	97
54) Dibenzofuran	10.10	168	39287	2.402	ng	95
55) 4-Nitrophenol	10.10	139	13852	4.356	ng	# 9
56) 2,4-Dinitrotoluene	9.90	165	25710	6.142	ng	# 23
57) Fluorene	10.45	166	56684	4.312	ng	99
70) Phenanthrene	11.41	178	325270	17.304	ng	98
71) Anthracene	11.46	178	133470	6.939	ng	98
74) Fluoranthene	12.60	202	369654	19.420	ng	99
77) Pyrene	12.83	202	295149	16.418	ng	99
80) Benzo(a)anthracene	14.02	228	140760	9.860	ng	99
82) Chrysene	14.05	228	102538	7.545	ng	96
85) Indeno(1,2,3-cd)pyrene	16.98	276	41964	3.860	ng	96
87) Benzo(b)fluoranthene	15.07	252	138075	12.712	ng	96
88) Benzo(k)fluoranthene	15.07	252	138075	12.870	ng	99
89) Benzo(a)pyrene	15.43	252	72727	7.294	ng	96
91) Benzo(a,h,i)perylene	17.43	276	39411	4.997	ng	95

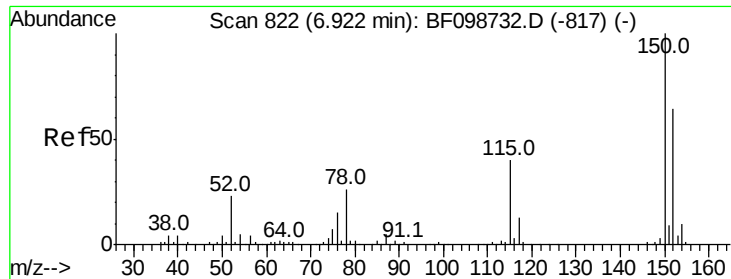
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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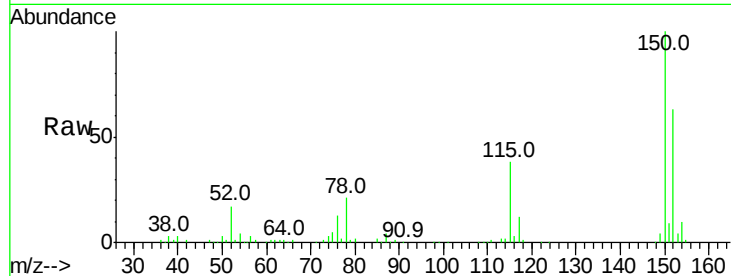


#1

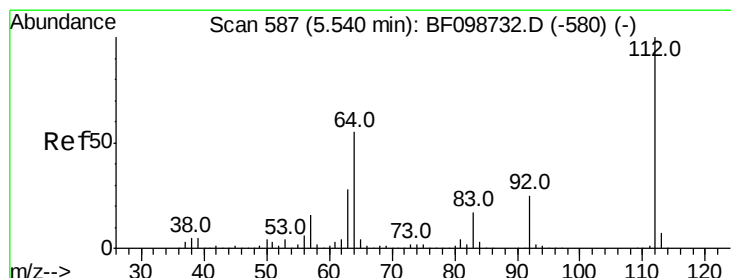
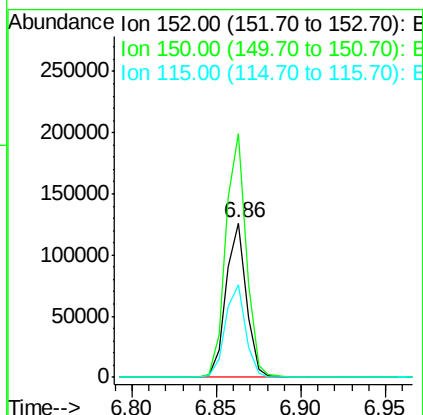
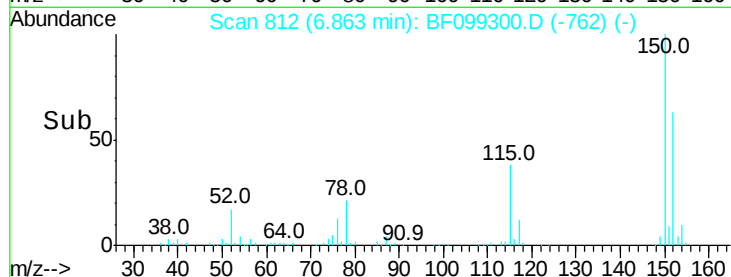
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 105682
 Ion Ratio Lower Upper
 152 100
 150 158.1 124.6 186.8
 115 59.8 50.1 75.1



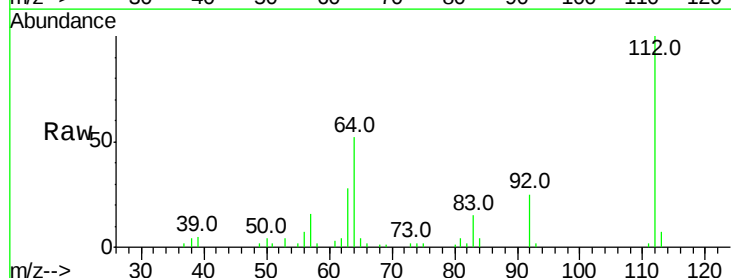
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



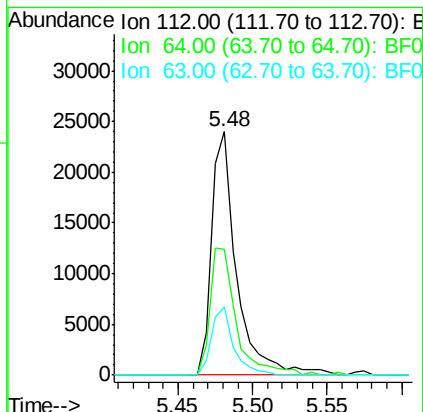
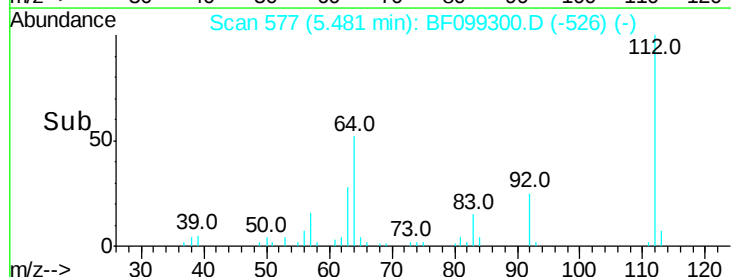
#5

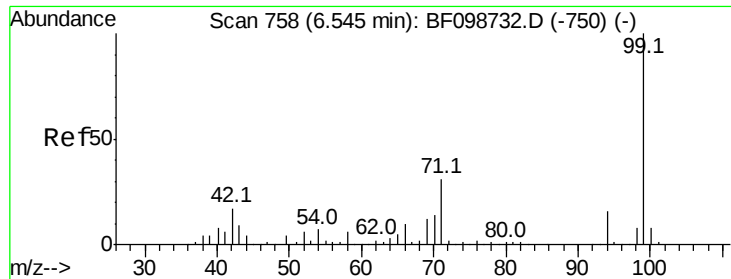
2-Fluorophenol
 Concen: 4.216 ng
 RT: 5.48 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Tgt Ion:112 Resp: 27992
 Ion Ratio Lower Upper
 112 100
 64 51.7 47.9 71.9
 63 28.0 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: 4.283 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

Instrument :

BNA_F

ClientSampleId :

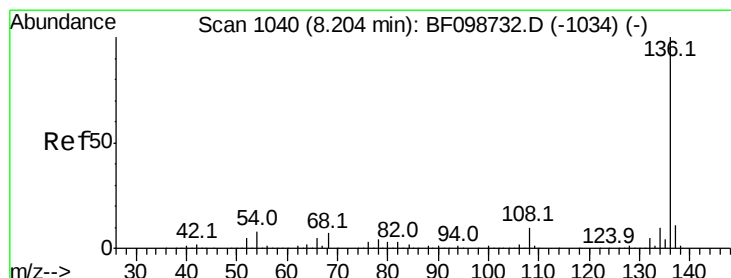
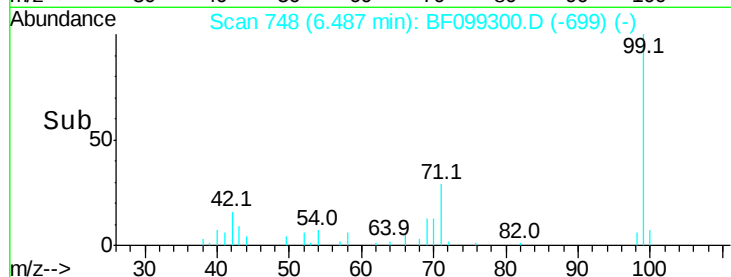
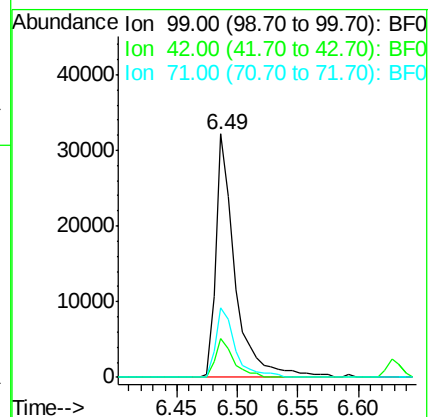
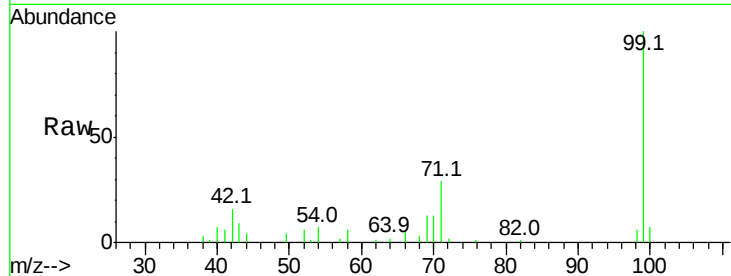
Tot Ion: 99 Resp: 35077

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

71 28.6 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

Tgt Ion: 136 Resp: 433701

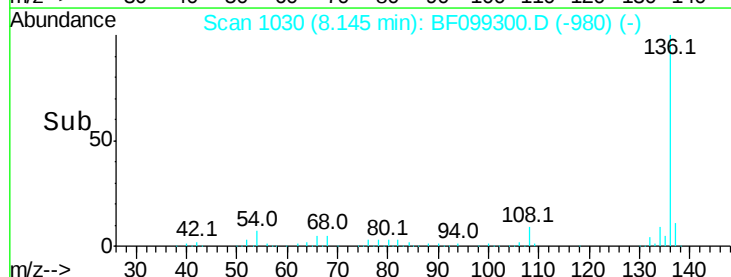
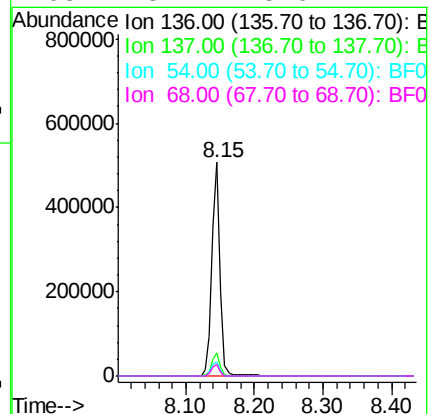
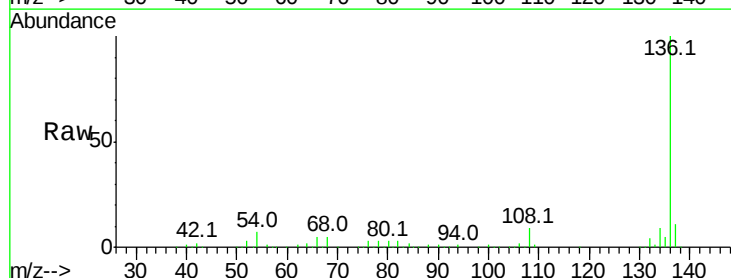
Ion Ratio Lower Upper

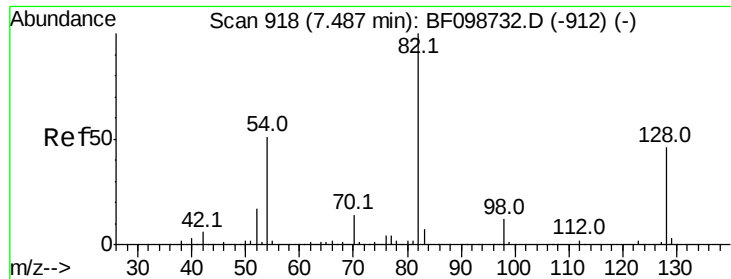
136 100

137 11.0 8.9 13.3

54 6.8 6.6 9.8

68 5.4 5.0 7.4

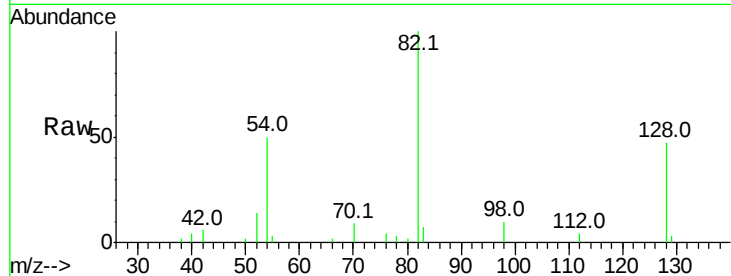




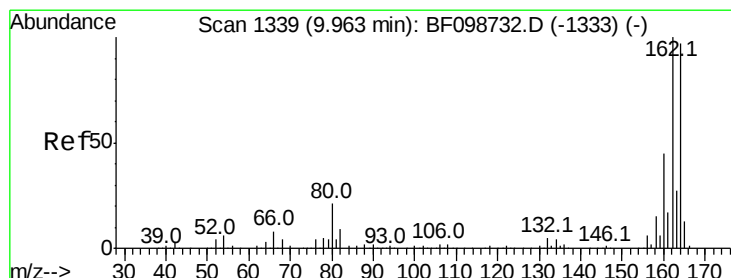
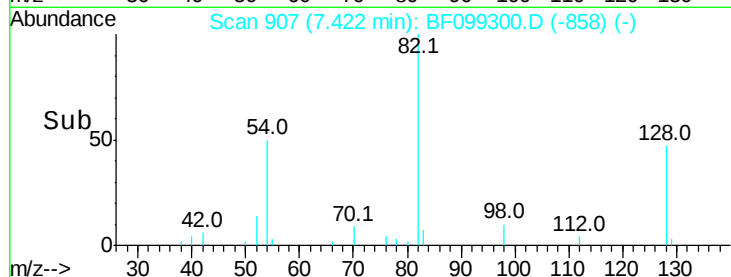
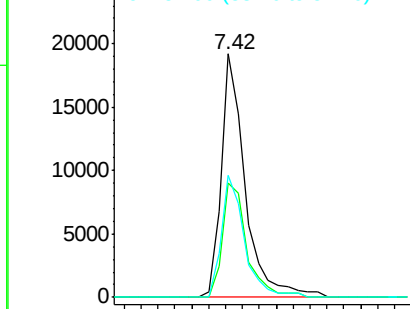
#23
 Nitrobenzene-d5
 Concen: 2.810 ng
 RT: 7.42 min Scan# 907
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 19002
 Ion Ratio Lower Upper
 82 100
 128 47.1 36.1 54.1
 54 50.1 41.4 62.2

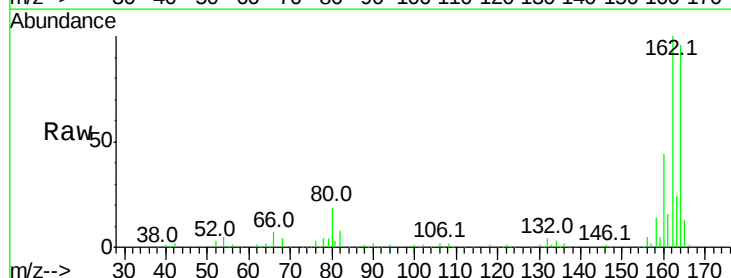


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

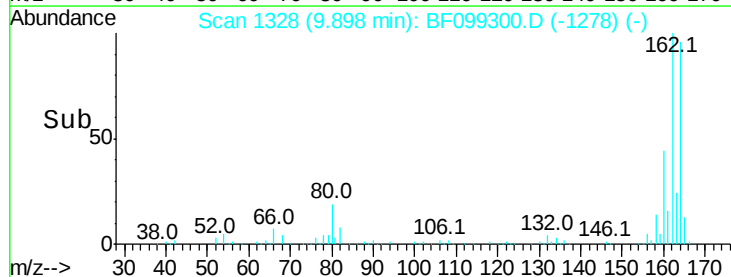
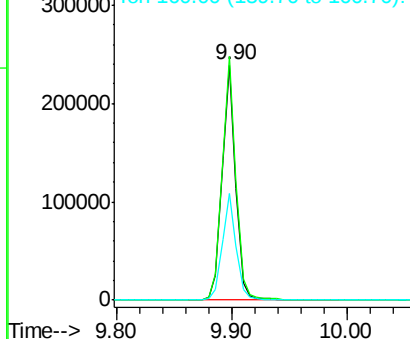


#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Tgt Ion:164 Resp: 196292
 Ion Ratio Lower Upper
 164 100
 162 103.7 86.1 129.1
 160 45.3 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

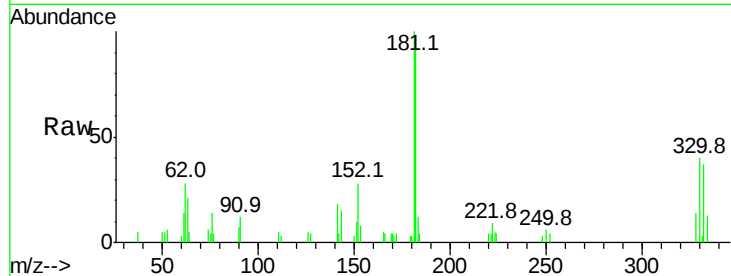




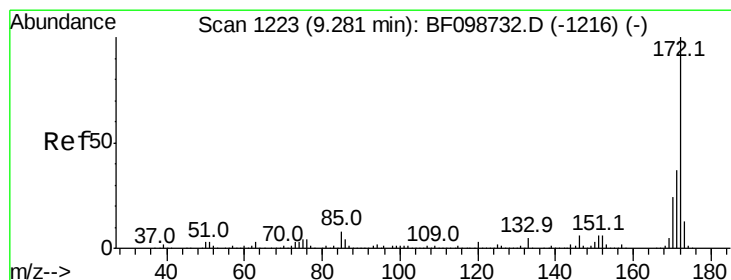
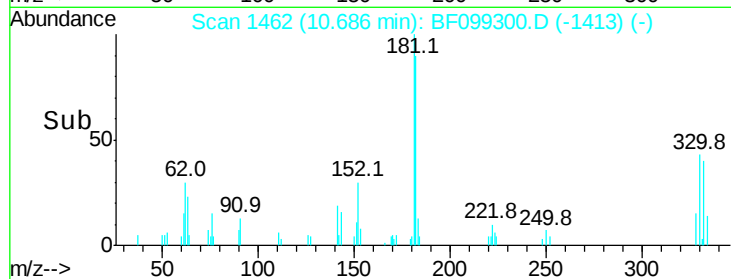
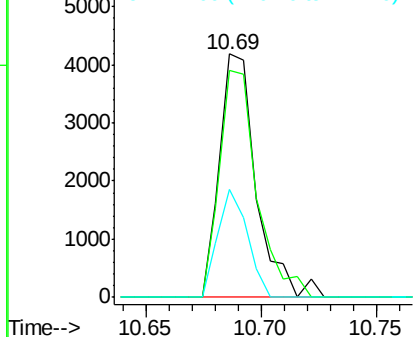
#41
 2,4,6-Tribromophenol
 Concen: 2.873 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 4614
 Ion Ratio Lower Upper
 330 100
 332 95.4 77.0 115.6
 141 35.7 29.9 44.9

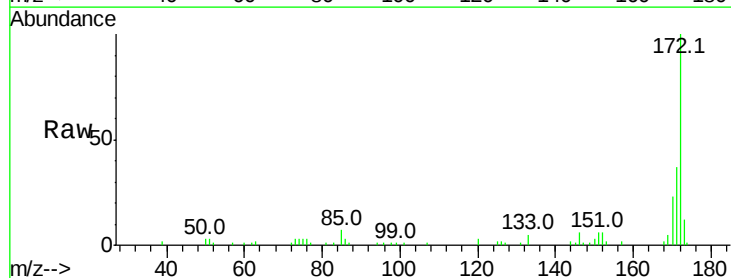


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

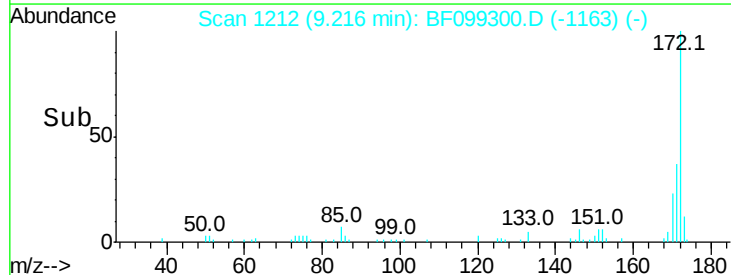
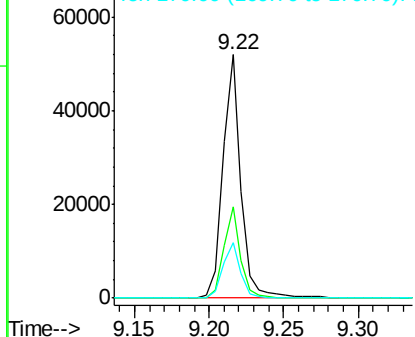


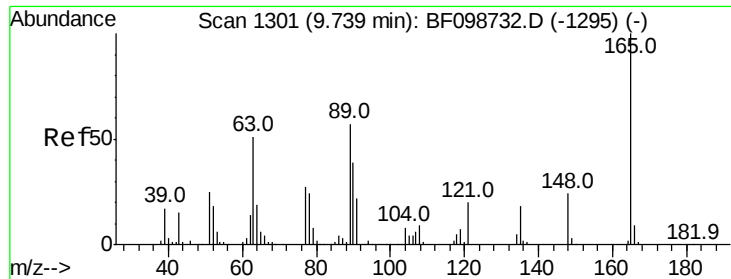
#44
 2-Fluorobiphenyl
 Concen: 3.770 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Tgt Ion:172 Resp: 44329
 Ion Ratio Lower Upper
 172 100
 171 37.3 29.7 44.5
 170 22.8 19.6 29.4



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

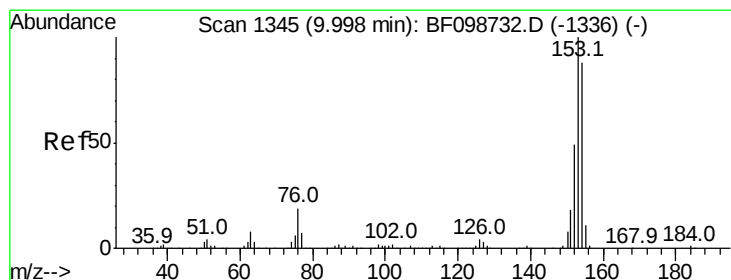
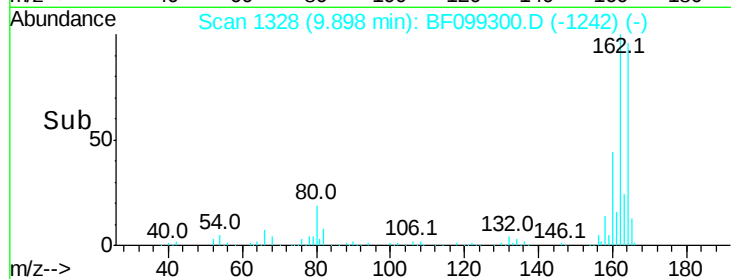
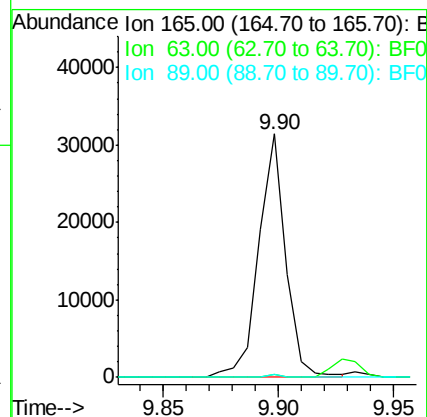
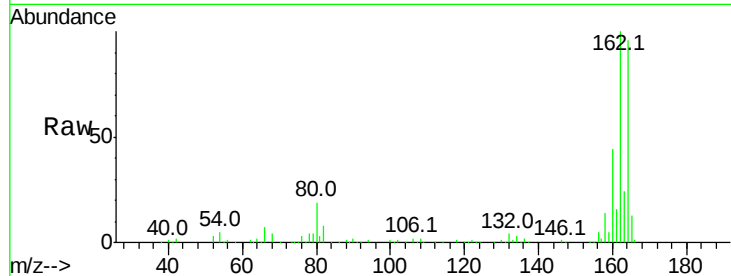




#50
 2,6-Dinitrotoluene
 Concen: 7.971 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. 0.21 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

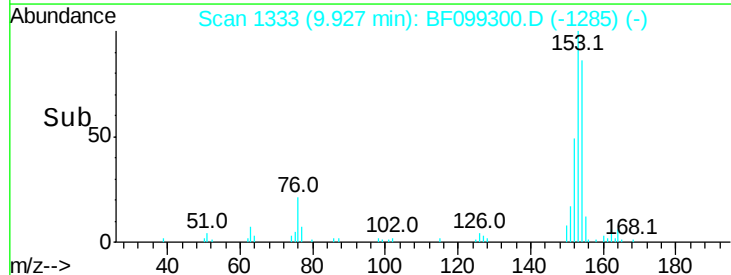
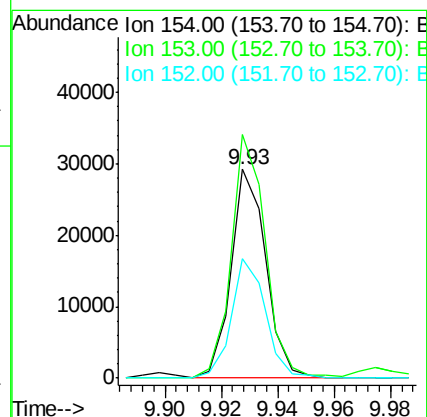
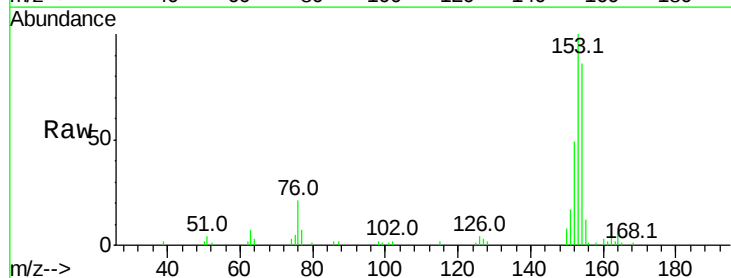
Instrument :
 BNA_F
 ClientSampleId :

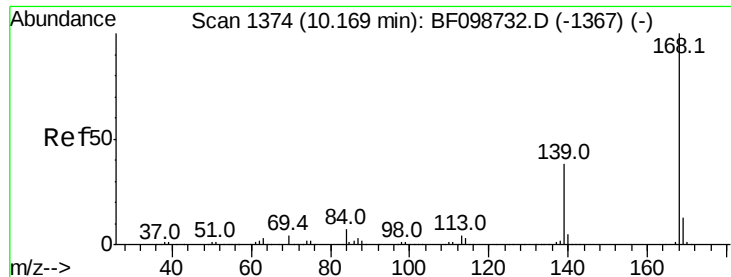
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.0	44.7	67.1#
89	1.0	44.0	66.0#



#51
 Acenaphthene
 Concen: 2.032 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.02 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.6	91.2	136.8
152	57.0	43.8	65.8





#54

Dibenzofuran

Concen: 2.402 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

Instrument :

BNA_F

ClientSampleId :

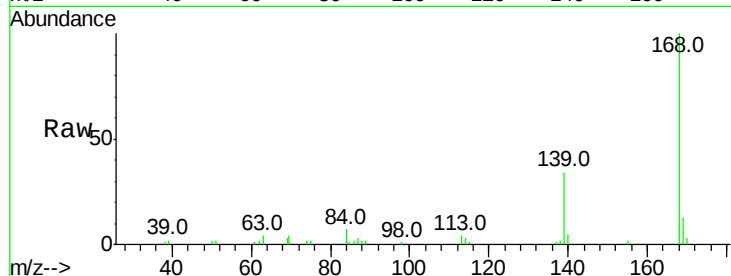
Tot Ion:168 Resp: 39287

Ion Ratio Lower Upper

168 100

139 34.5 30.1 45.1

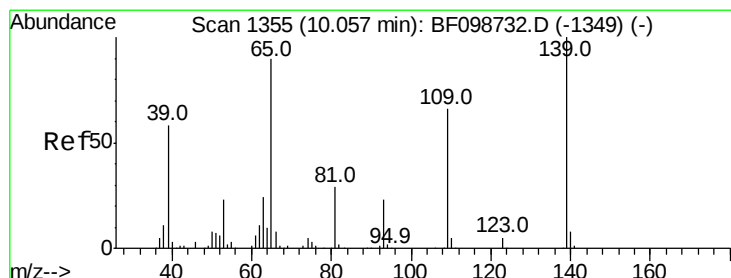
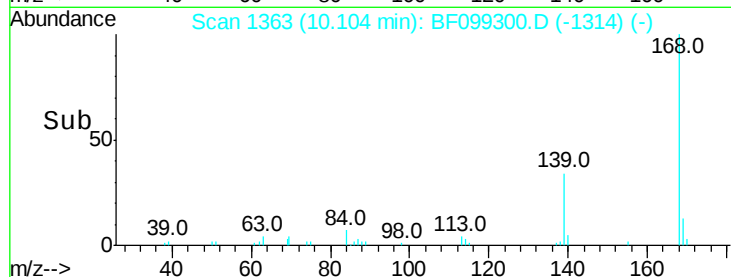
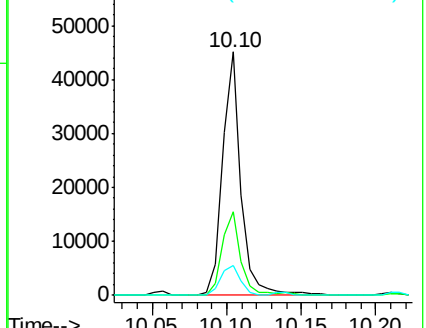
169 12.5 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 4.356 ng

RT: 10.10 min Scan# 1363

Delta R.T. 0.08 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

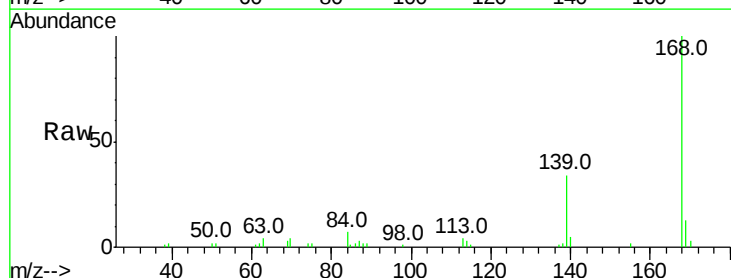
Tgt Ion:139 Resp: 13852

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

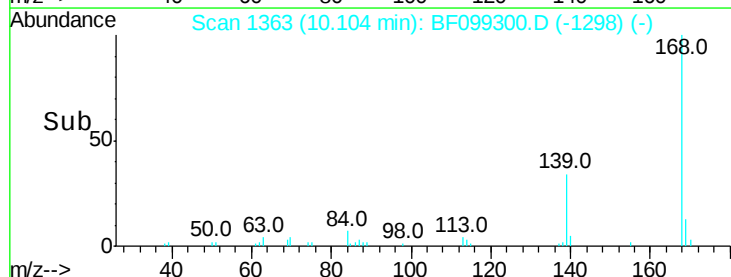
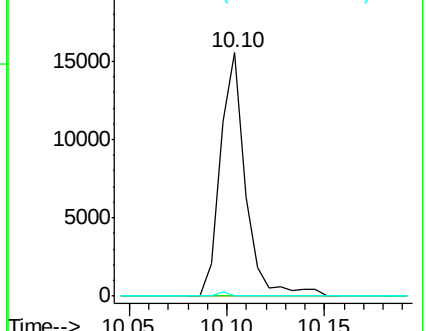
65 0.0 72.6 112.6#

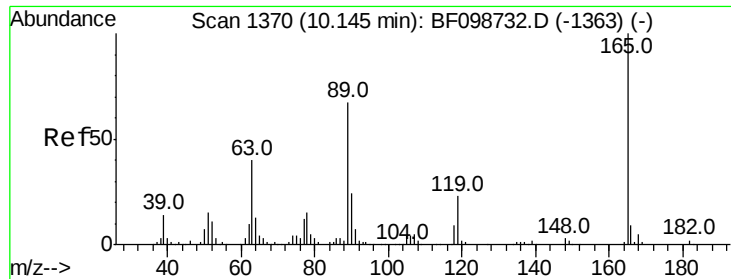


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

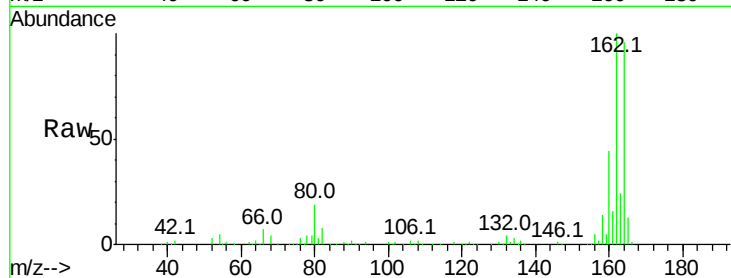




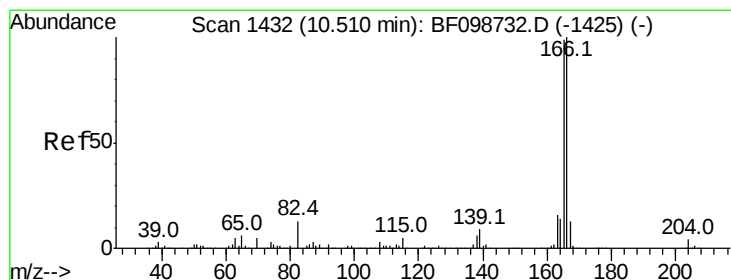
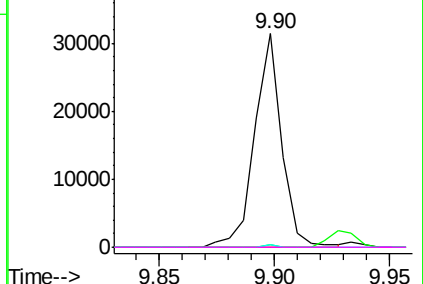
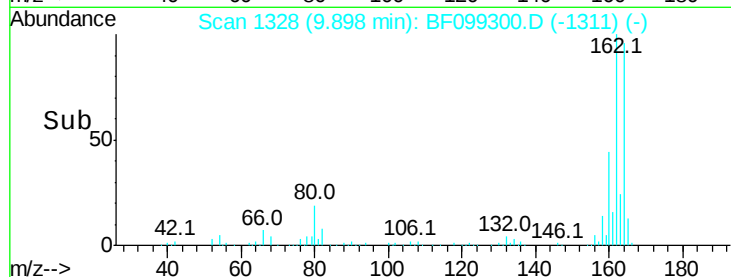
#56
2,4-Dinitrotoluene
Concen: 6.142 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.20 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.0	36.4	54.6#
89	1.0	57.8	86.6#
182	0.0	1.6	2.4#

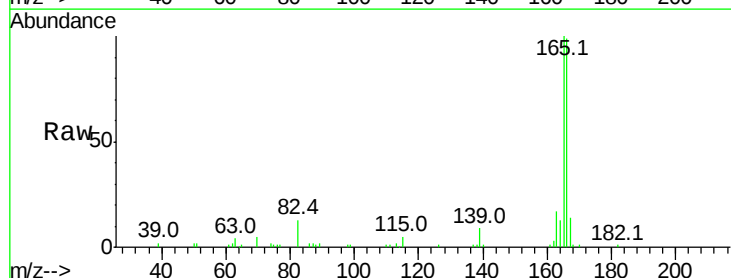


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

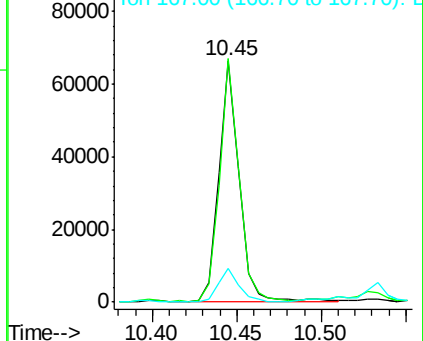
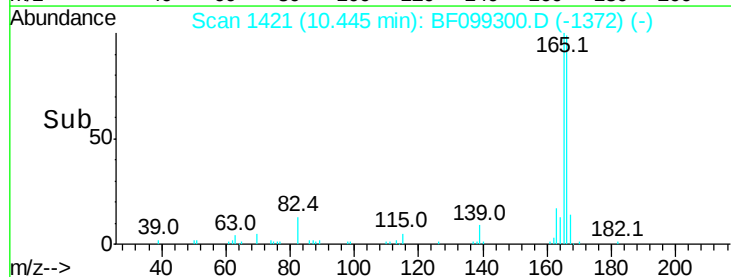


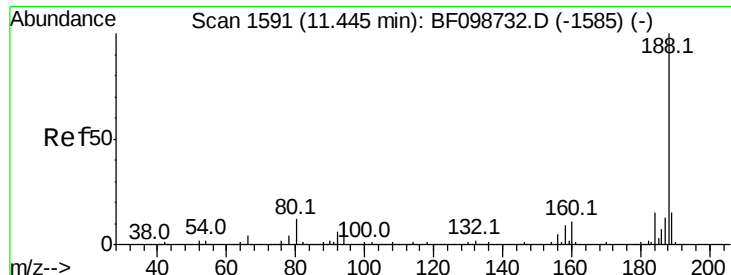
#57
Fluorene
Concen: 4.312 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.0	79.8	119.8
167	14.0	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

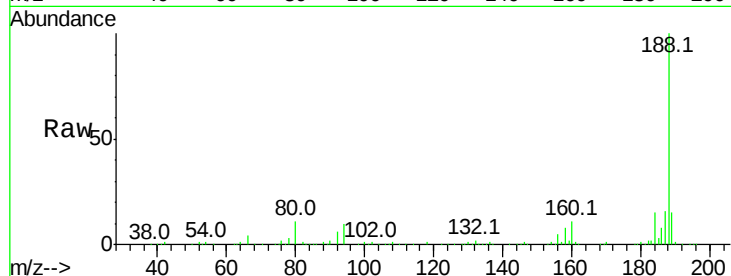




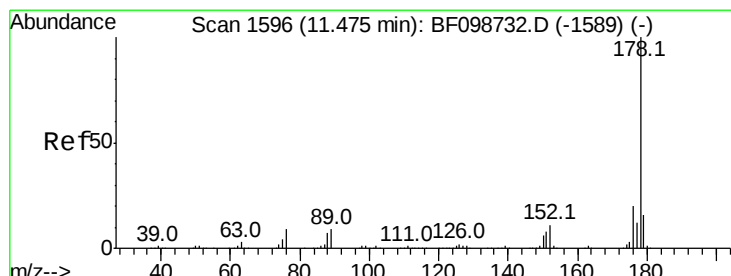
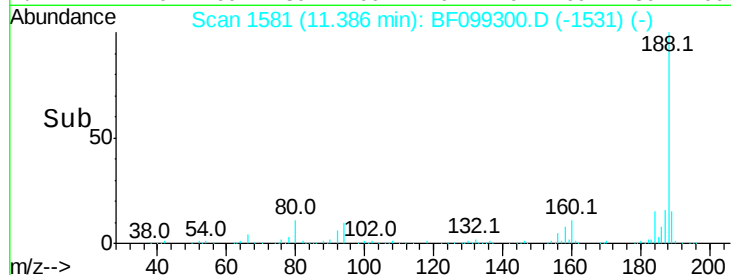
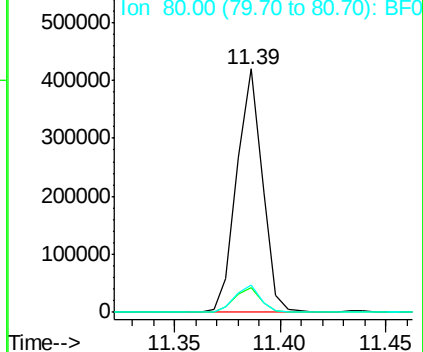
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 351184
Ion Ratio Lower Upper
188 100
94 10.3 8.5 12.7
80 11.0 9.2 13.8

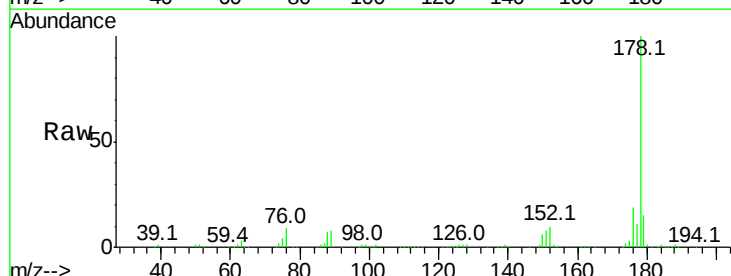


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

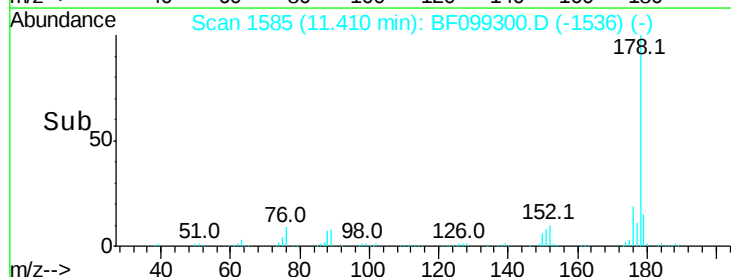
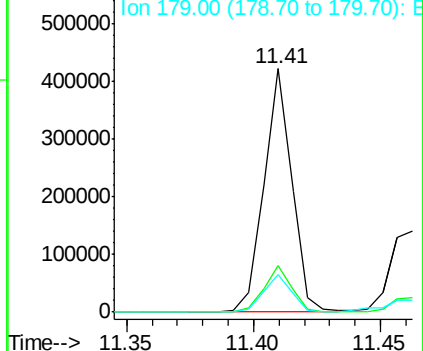


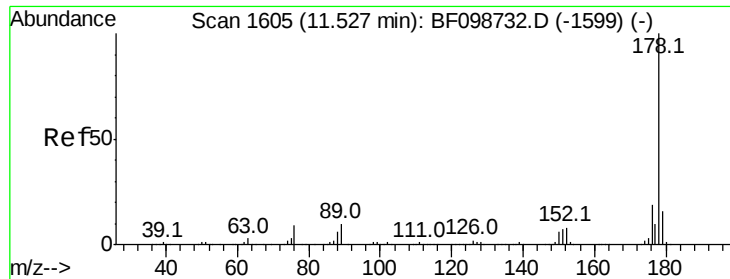
#70
Phenanthrene
Concen: 17.304 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Tgt Ion:178 Resp: 325270
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.3 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

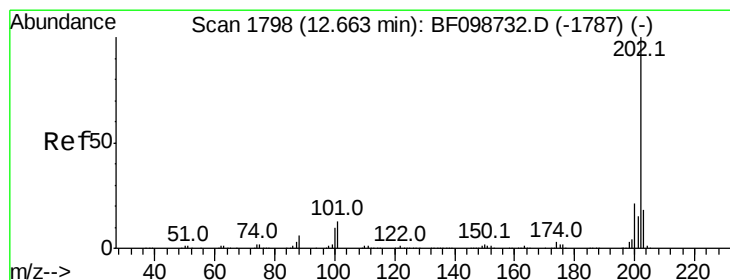
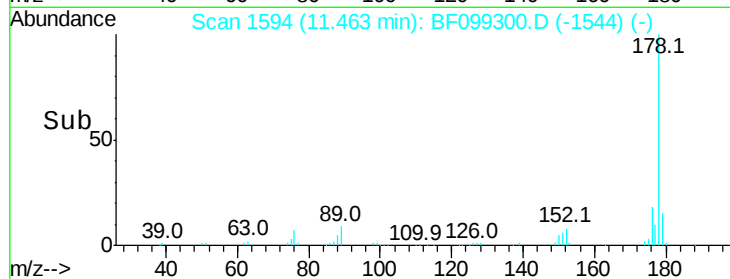
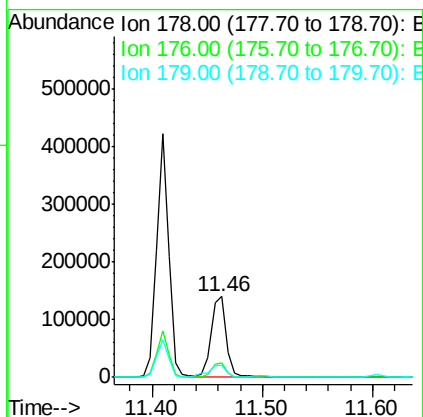
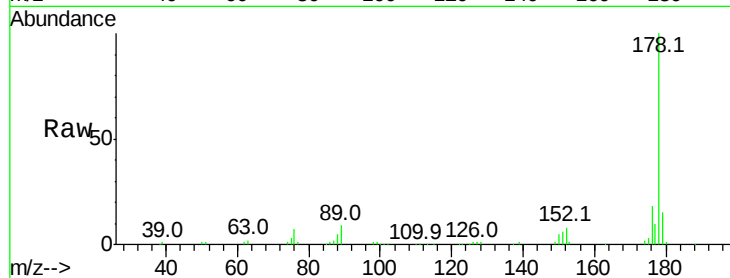




#71
 Anthracene
 Concen: 6.939 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

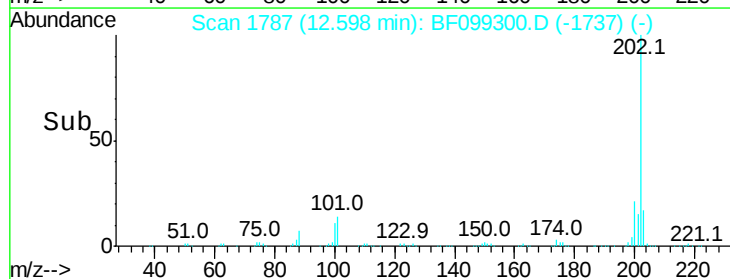
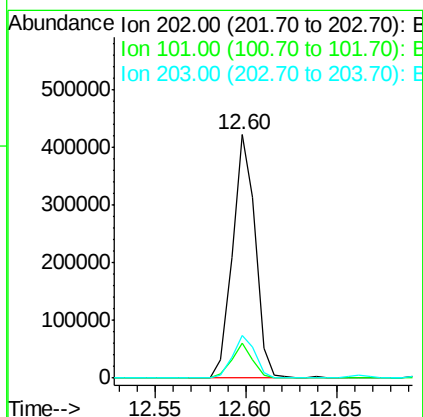
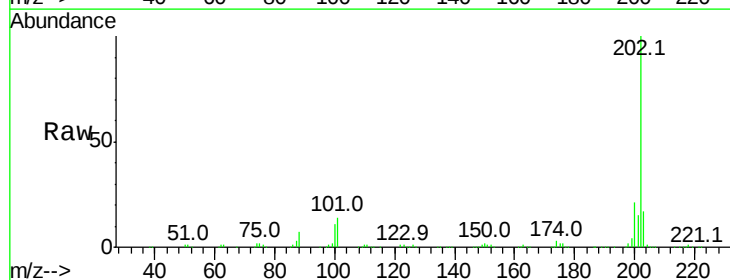
Instrument :
 BNA_F
 ClientSampleId :

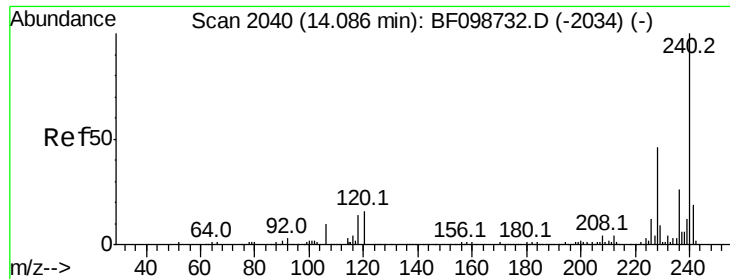
Tot Ion:178 Resp: 133470
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 14.8 12.6 19.0



#74
 Fluoranthene
 Concen: 19.420 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Tgt Ion:202 Resp: 369654
 Ion Ratio Lower Upper
 202 100
 101 14.3 0.0 34.1
 203 17.5 0.0 38.1

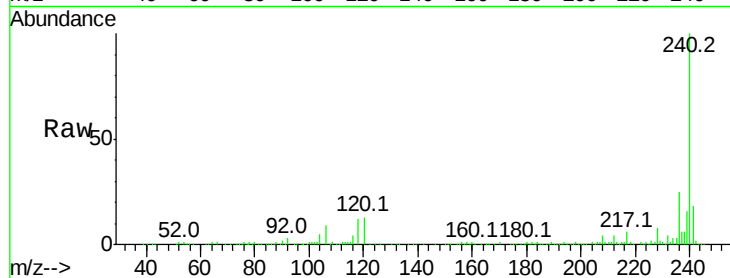




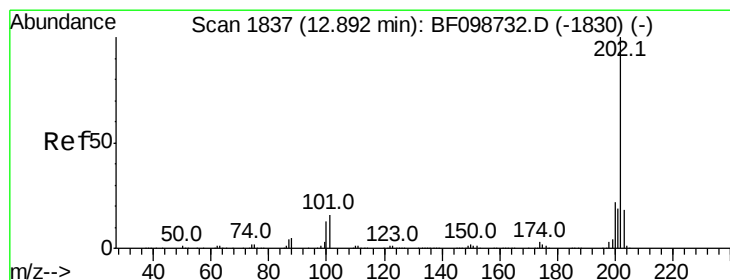
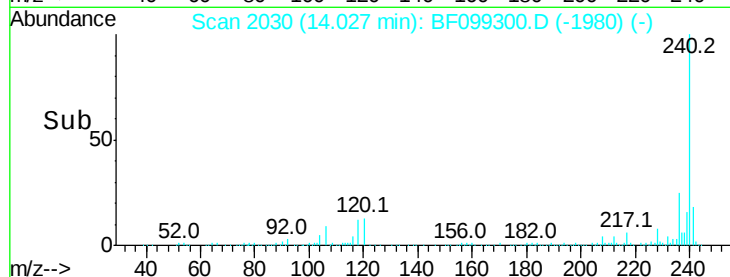
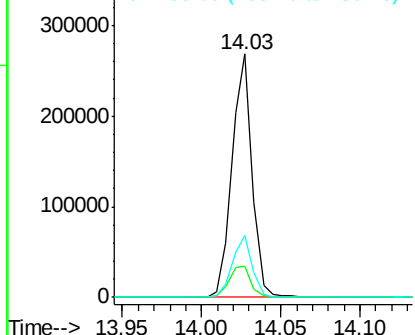
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 235755
Ion Ratio Lower Upper
240 100
120 13.0 9.5 14.3
236 25.3 20.7 31.1

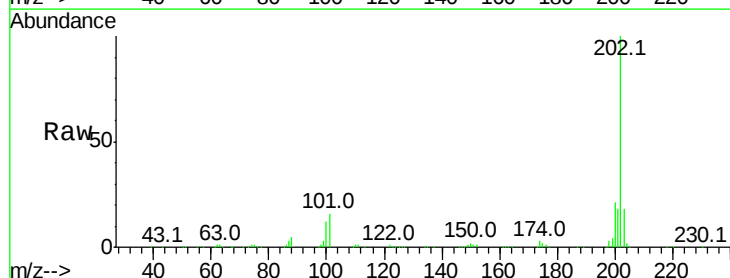


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

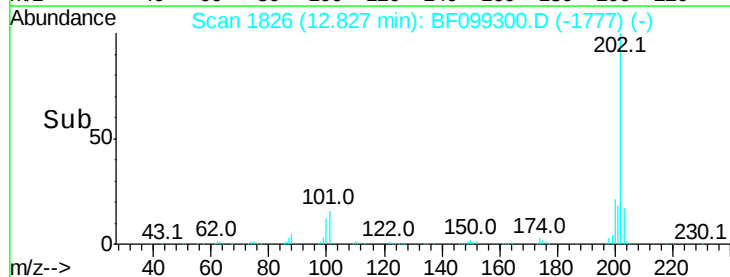
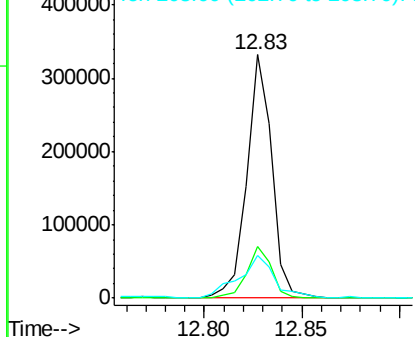


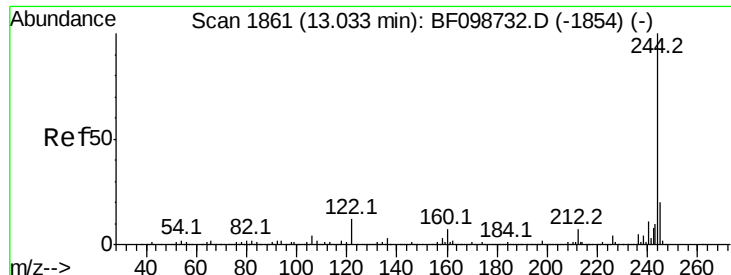
#77
Pyrene
Concen: 16.418 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Tgt Ion:202 Resp: 295149
Ion Ratio Lower Upper
202 100
200 21.0 17.4 26.2
203 17.6 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: 4.303 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

Instrument :

BNA_F

ClientSampleId :

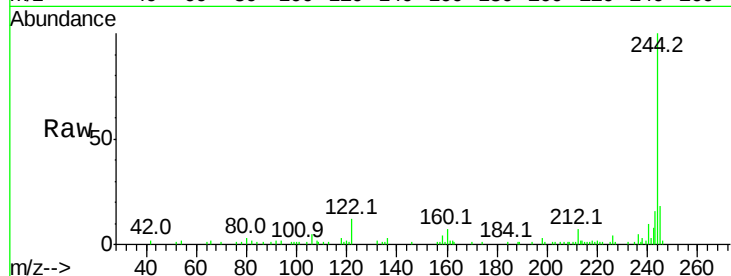
Tot Ion:244 Resp: 44609

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

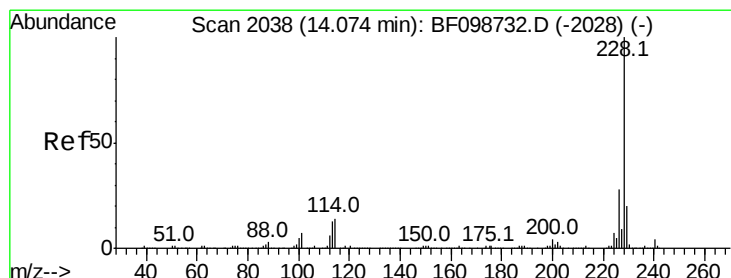
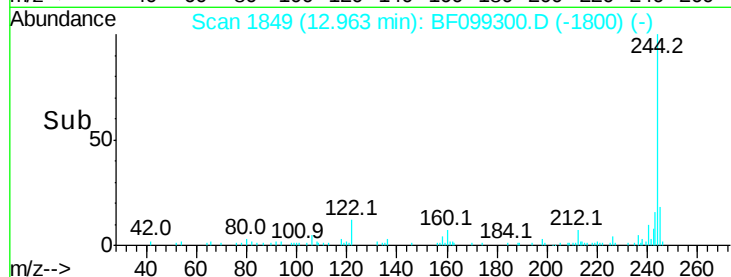
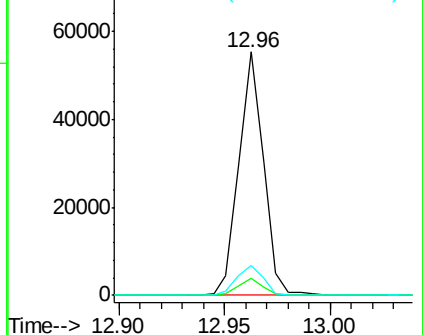
122 12.3 11.0 16.4



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: 9.860 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

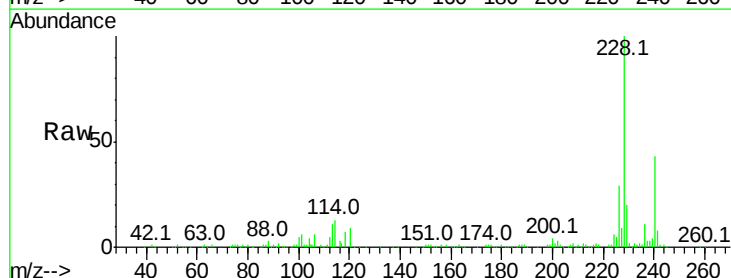
Tgt Ion:228 Resp: 140760

Ion Ratio Lower Upper

228 100

226 28.6 22.6 33.8

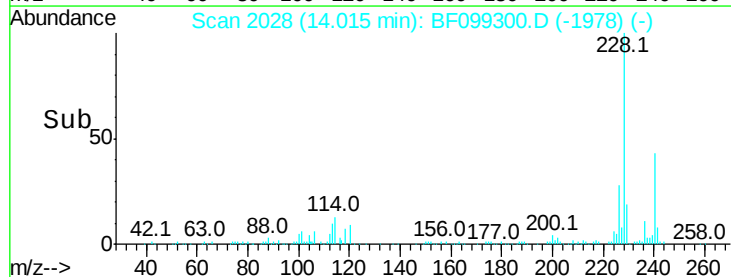
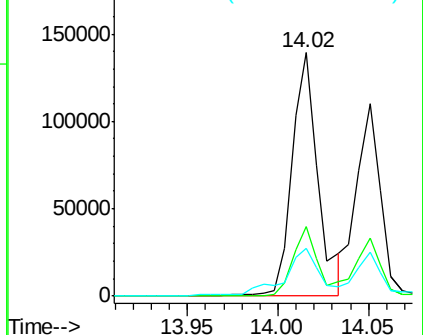
229 19.6 15.8 23.6

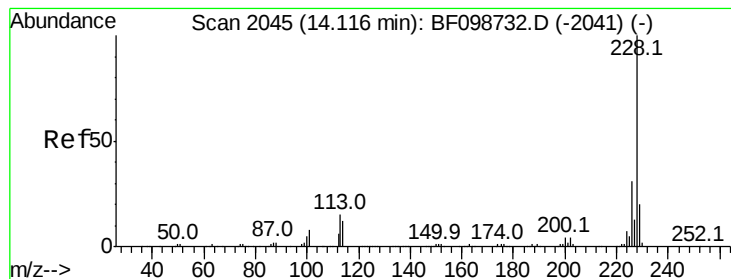


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.545 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

Instrument :

BNA_F

ClientSampleId :

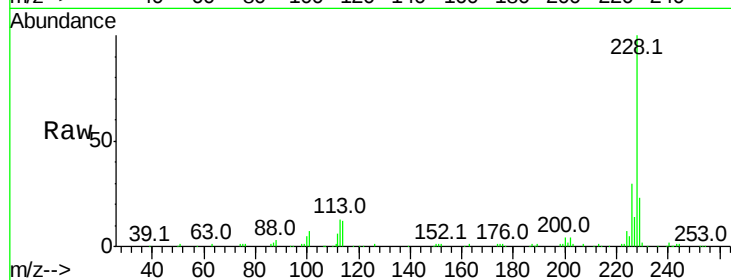
Tot Ion:228 Resp: 102538

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

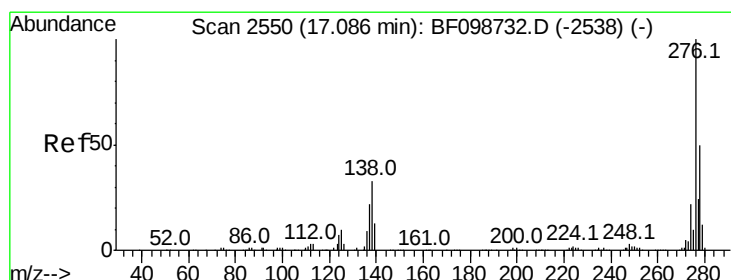
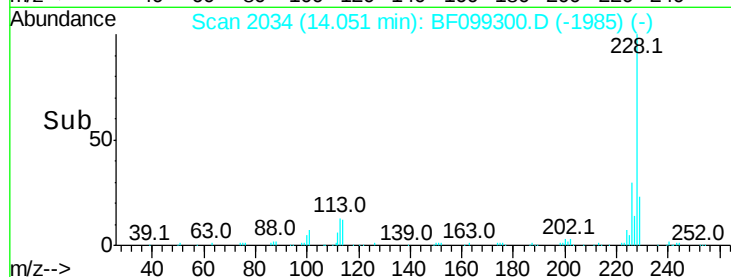
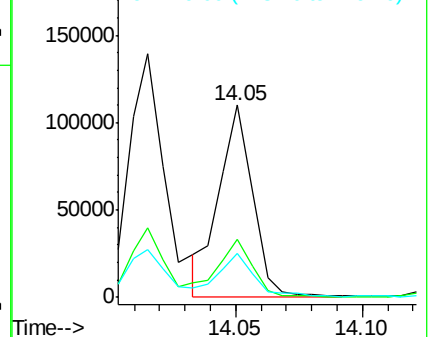
229 23.0 16.2 24.4



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: 3.860 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF099300.D

Acq: 10 Oct 2017 14:43

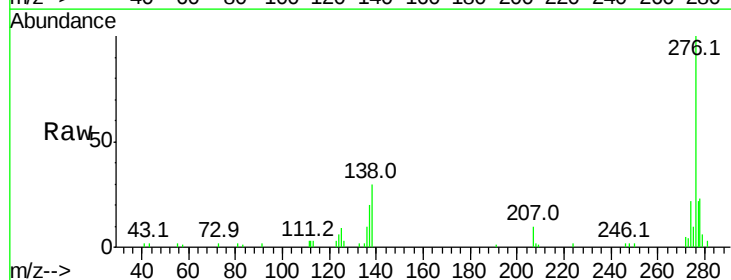
Tgt Ion:276 Resp: 41964

Ion Ratio Lower Upper

276 100

138 33.9 25.0 37.6

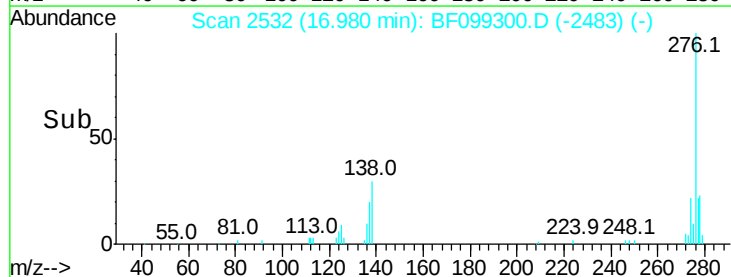
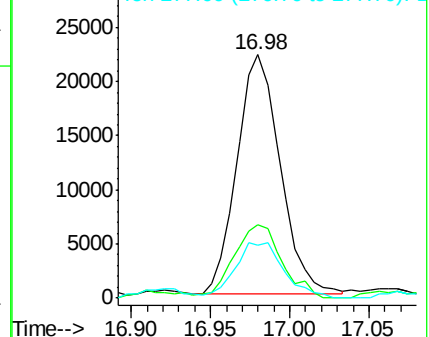
277 26.2 20.1 30.1

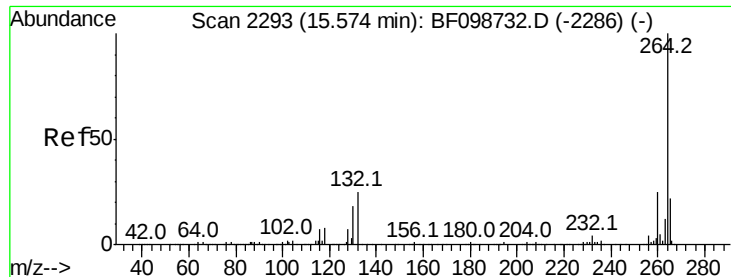


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

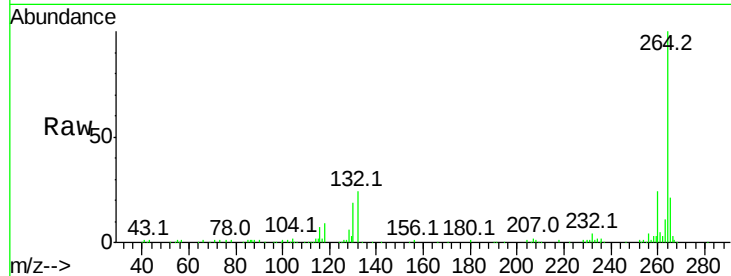




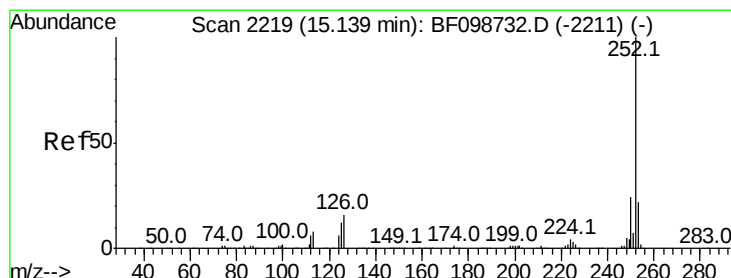
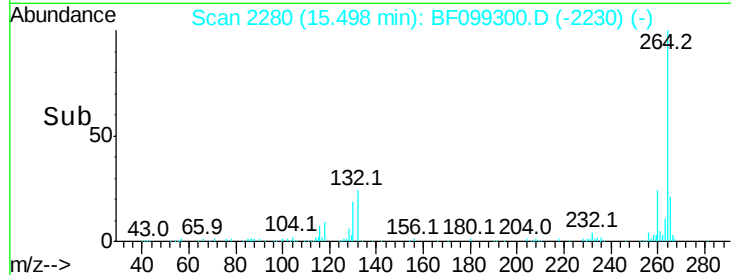
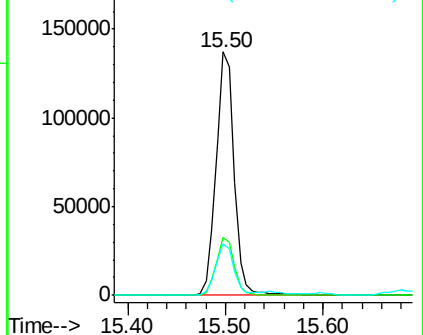
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 176658
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 21.2 17.5 26.3

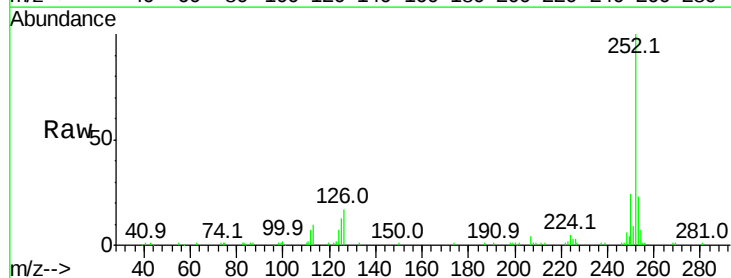


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

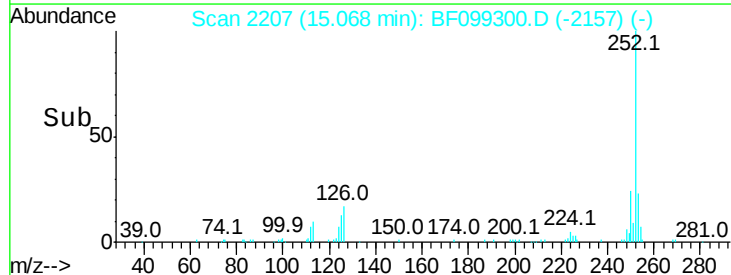
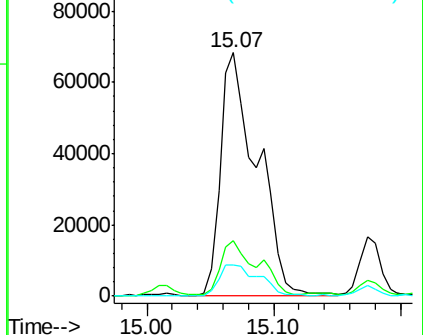


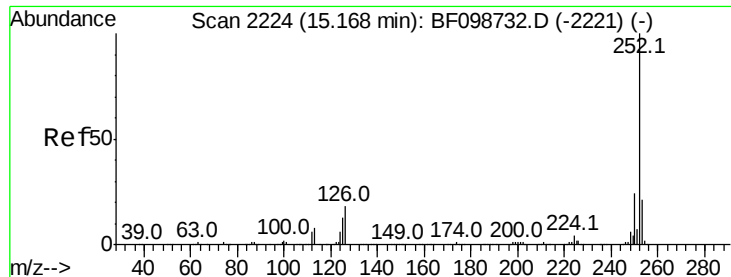
#87
Benzo(b)fluoranthene
Concen: 12.712 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Tgt Ion:252 Resp: 138075
Ion Ratio Lower Upper
252 100
253 23.0 17.0 25.6
125 12.6 9.0 13.6



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

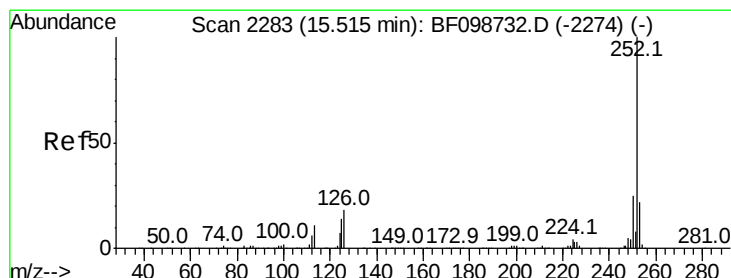
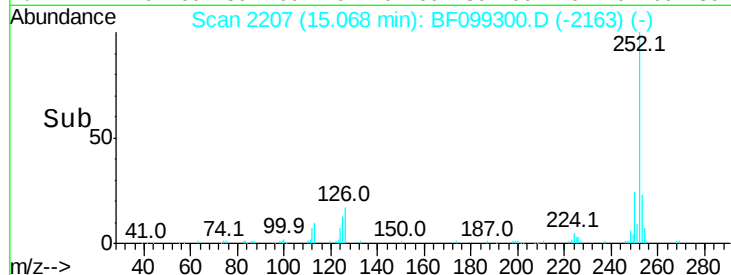
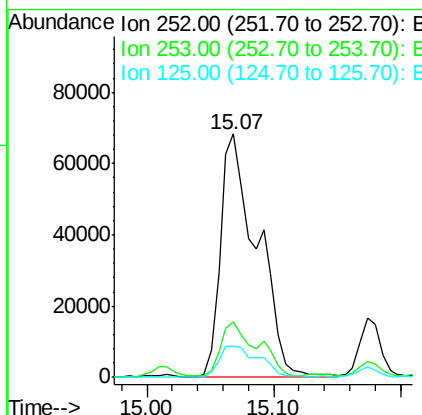
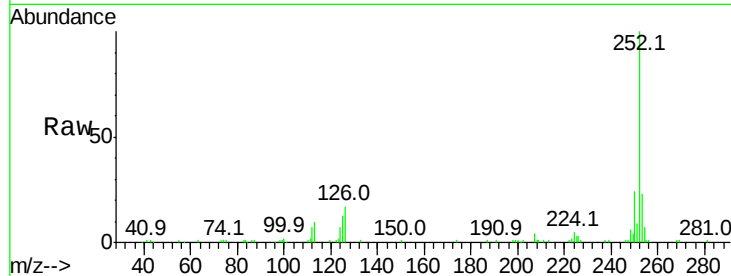




#88
Benzo(k)fluoranthene
Concen: 12.870 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.04 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

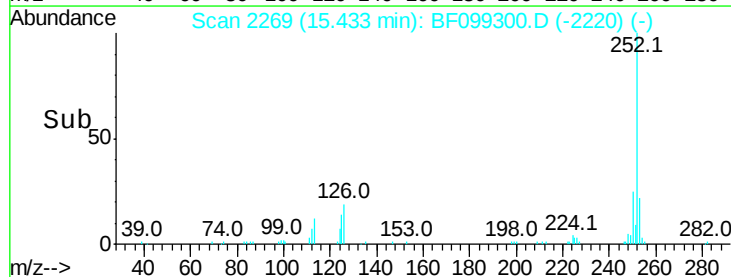
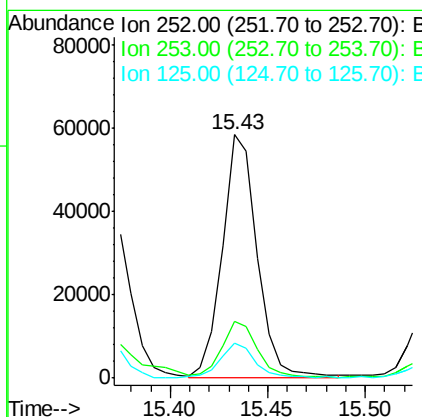
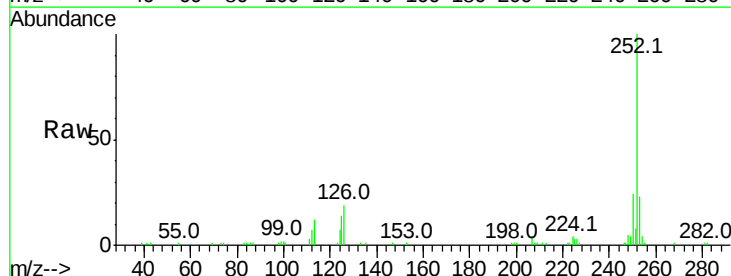
Instrument :
BNA_F
ClientSampleId :

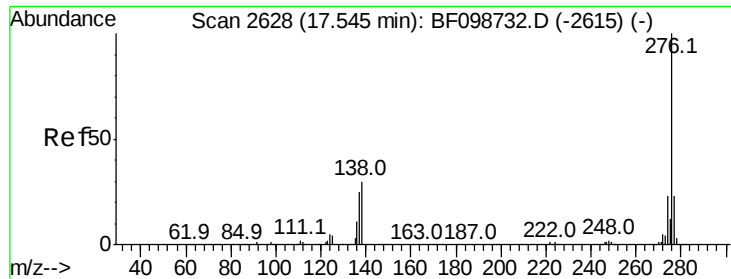
Tot Ion:252 Resp: 138075
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 12.6 10.2 15.2



#89
Benzo(a)pyrene
Concen: 7.294 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF099300.D
Acq: 10 Oct 2017 14:43

Tgt Ion:252 Resp: 72727
Ion Ratio Lower Upper
252 100
253 23.2 17.1 25.7
125 14.3 9.8 14.6

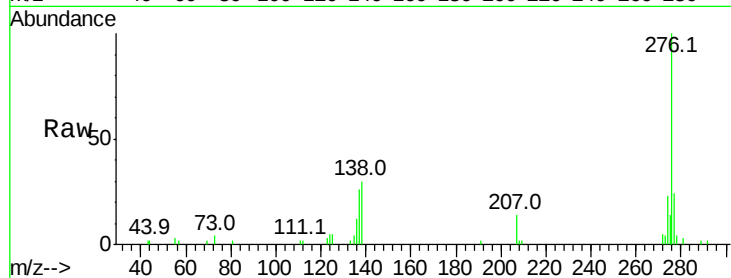




#91
 Benzo(a,h,i)perylene
 Concen: 4.997 ng
 RT: 17.43 min Scan# 2609
 Delta R.T. -0.01 min
 Lab File: BF099300.D
 Acq: 10 Oct 2017 14:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 276 Resp: 39411
 Ion Ratio Lower Upper
 276 100
 277 24.3 17.9 26.9
 138 30.3 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

