

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101117\
 Data File : BF099379.D
 Acq On : 12 Oct 2017 8:11
 Operator : SJ/JU
 Sample : I5530-06 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 12 08:41:30 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 16:25:21 2017
 Response via : Initial Calibration

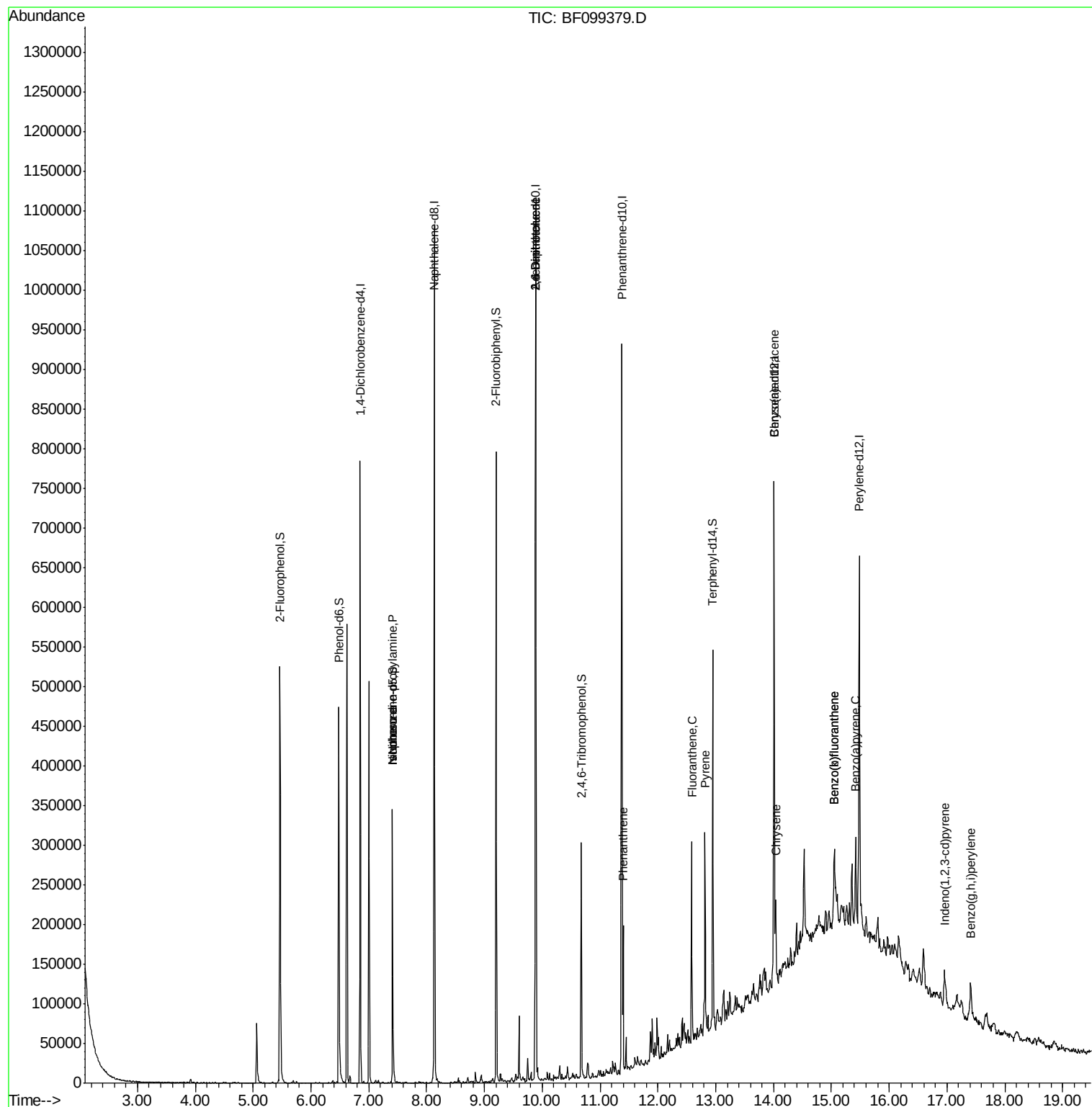
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	116077	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	473089	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	200979	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	310493	20.00	ng	0.00
75) Chrysene-d12	14.01	240	188234	20.00	ng	0.00
86) Perylene-d12	15.49	264	211849	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	156456	21.46	ng	0.00
7) Phenol-d6	6.48	99	189423	21.06	ng	0.00
23) Nitrobenzene-d5	7.41	82	106670	14.46	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	30588	18.60	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	226979	18.85	ng	0.00
78) Terphenyl-d14	12.95	244	131178	15.85	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.41	70	13313	2.32	ng	# 80
25) Isophorone	7.41	82	106684	6.99	ng	# 64
50) 2,6-Dinitrotoluene	9.89	165	25532	7.73	ng	# 25
56) 2,4-Dinitrotoluene	9.89	165	25532	5.96	ng	# 23
70) Phenanthrene	11.40	178	64863	3.90	ng	97
74) Fluoranthene	12.59	202	91092	5.41	ng	97
77) Pyrene	12.82	202	88110	6.14	ng	98
80) Benzo(a)anthracene	14.00	228	39452	3.46	ng	95
82) Chrysene	14.04	228	39358	3.63	ng	96
85) Indeno(1,2,3-cd)pyrene	16.96	276	24315	2.80	ng	95
87) Benzo(b)fluoranthene	15.05	252	67313	5.17	ng	# 87
88) Benzo(k)fluoranthene	15.05	252	67313	5.23	ng	# 90
89) Benzo(a)pyrene	15.42	252	40324	3.37	ng	# 92
91) Benzo(a,h,i)perylene	17.41	276	34835	3.68	ng	# 89

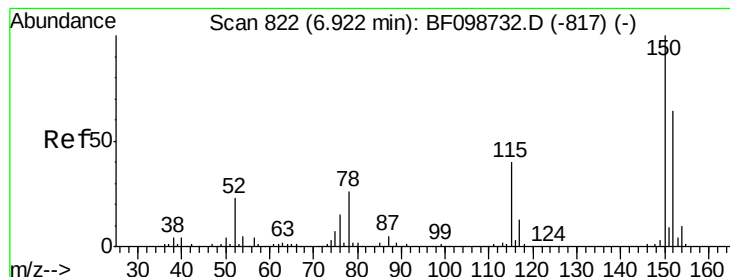
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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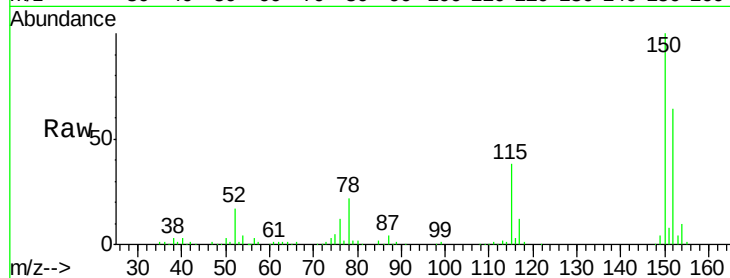


#1

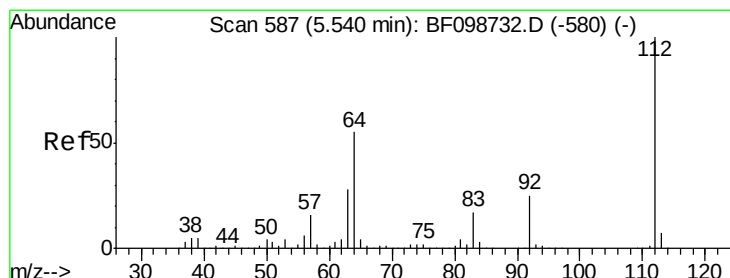
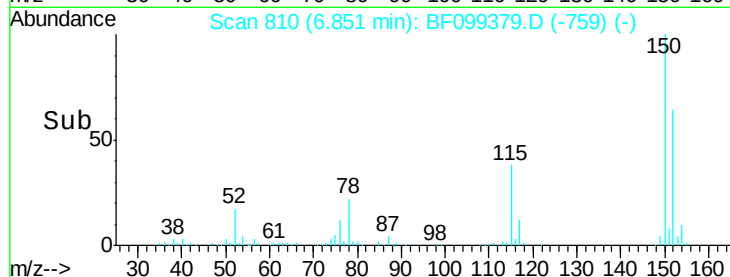
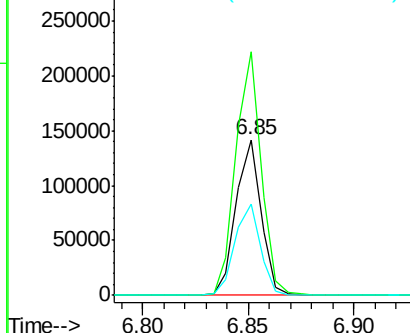
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	124.6	186.8
115	58.9	50.1	75.1



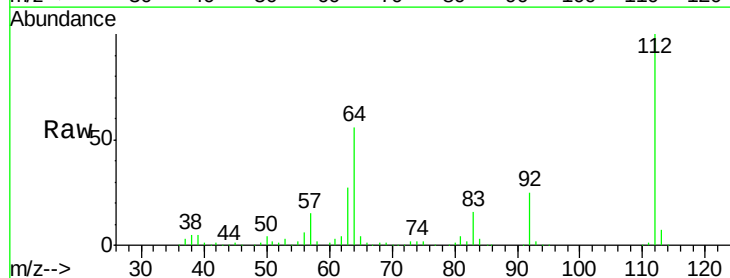
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



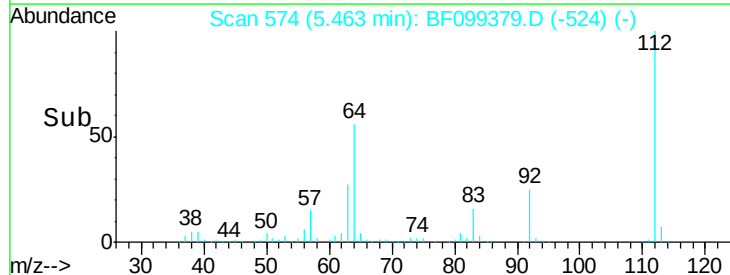
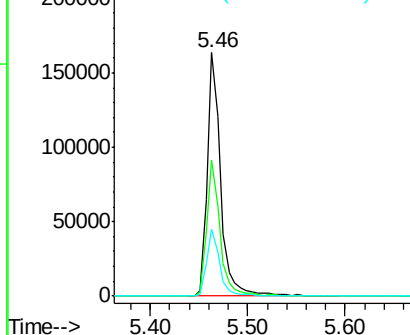
#5

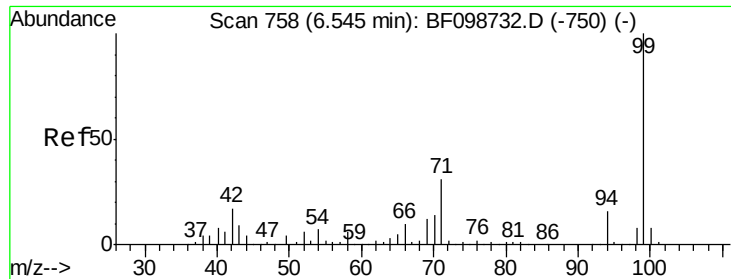
2-Fluorophenol
Concen: 21.46 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	47.9	71.9
63	27.3	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: 21.06 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Instrument :

BNA_F

ClientSampled :

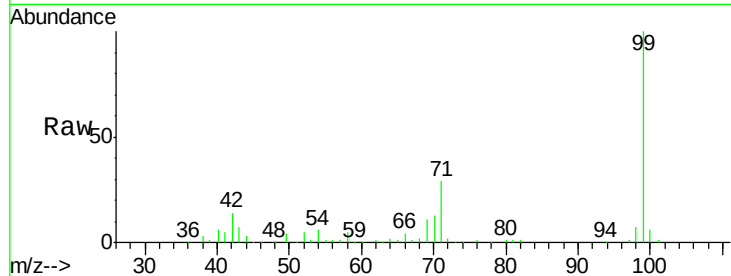
Tot Ion: 99 Resp: 189423

Ion Ratio Lower Upper

99 100

42 14.3 14.5 21.7#

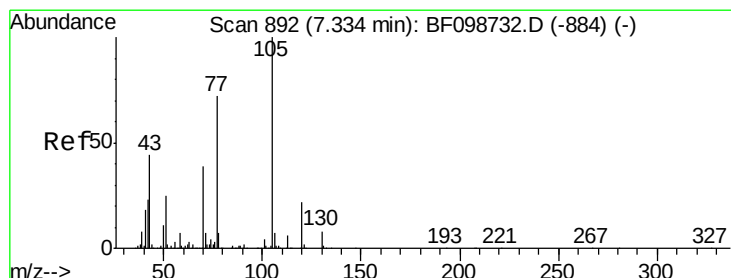
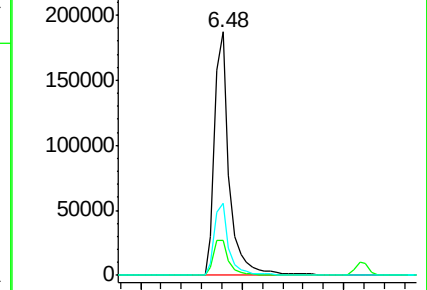
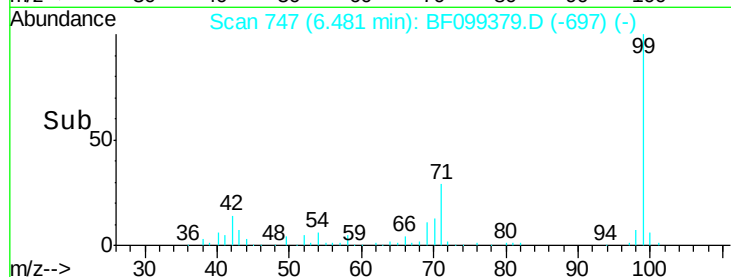
71 29.4 25.4 38.0



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: 2.32 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Tgt Ion: 70 Resp: 13313

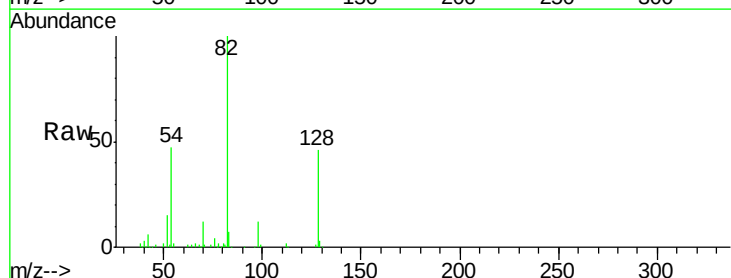
Ion Ratio Lower Upper

70 100

42 49.6 47.5 71.3

101 0.0 7.4 11.2#

130 3.0 16.6 25.0#

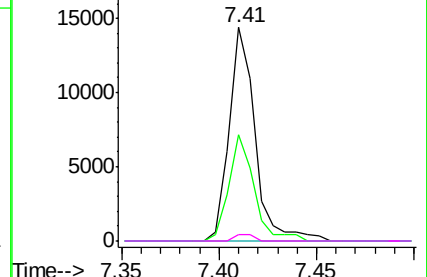
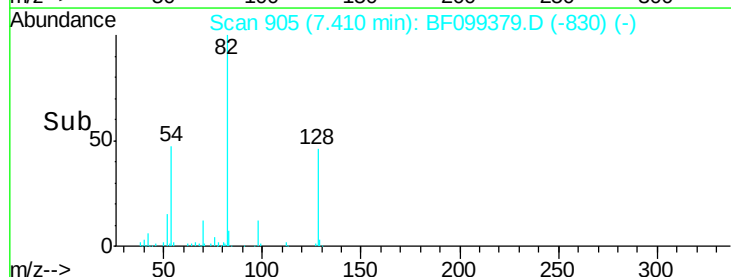


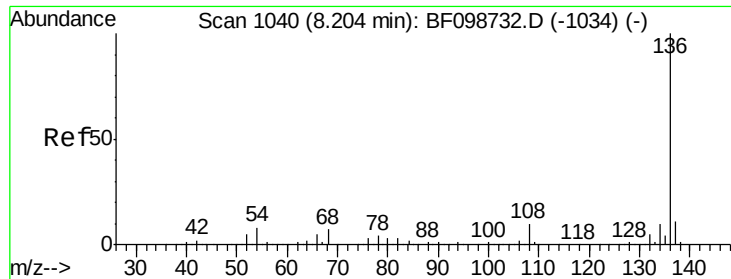
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

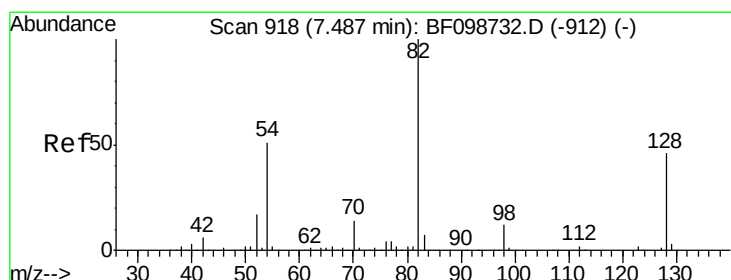
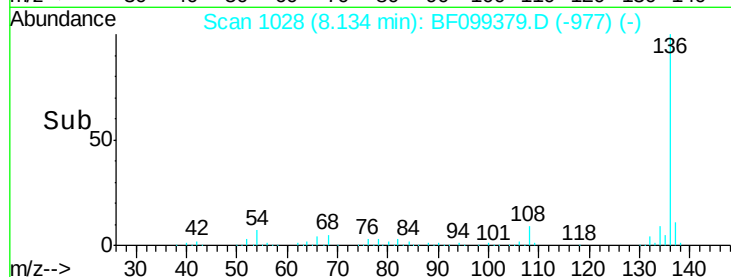
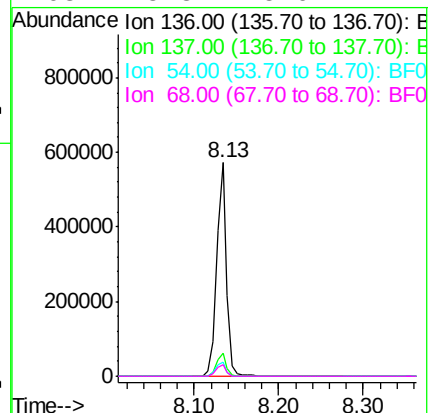
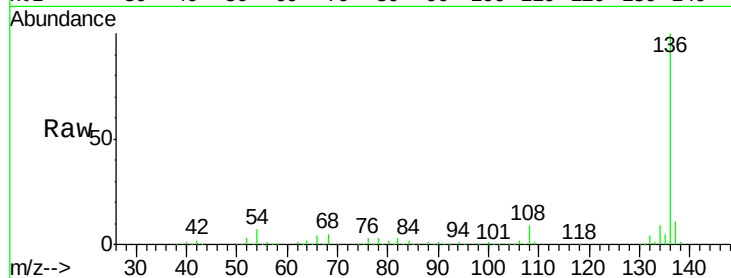




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

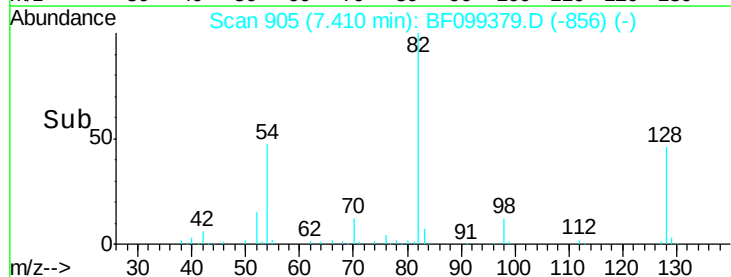
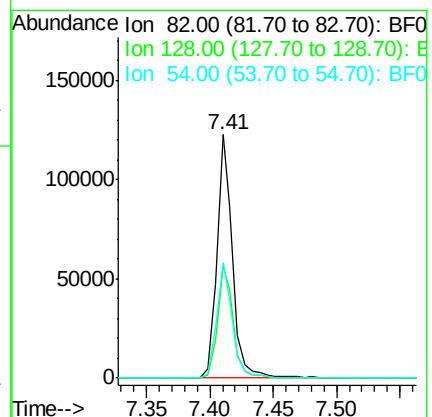
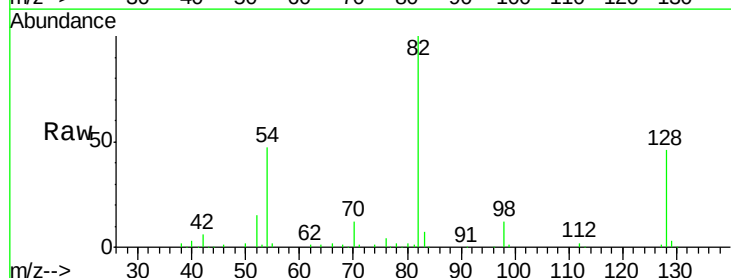
Instrument :
BNA_F
ClientSampleId :

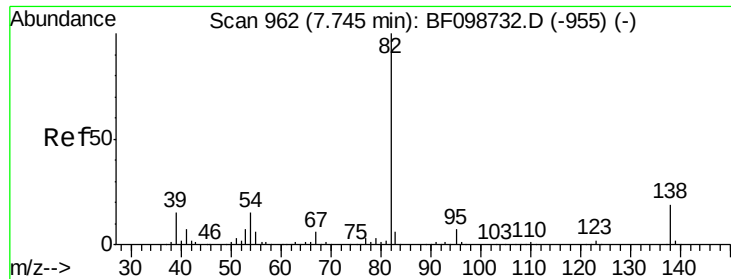
Tot Ion:136	Resp:	473089
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.9 13.3
54	6.7	6.6 9.8
68	5.3	5.0 7.4



#23
Nitrobenzene-d5
Concen: 14.46 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Tgt Ion: 82	Resp:	106670
Ion Ratio	Lower	Upper
82	100	
128	46.2	36.1 54.1
54	47.5	41.4 62.2





#25

Isophorone

Concen: 6.99 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Instrument :

BNA_F

ClientSampleId :

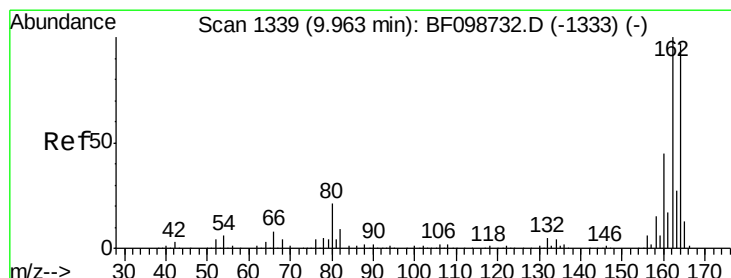
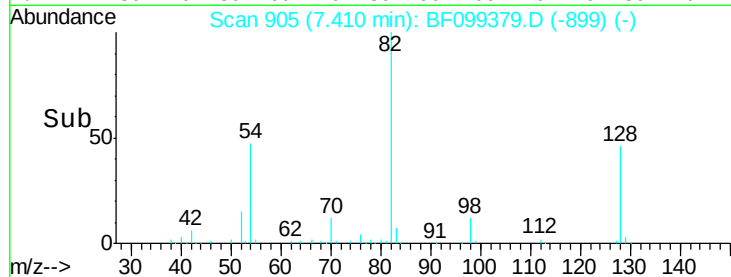
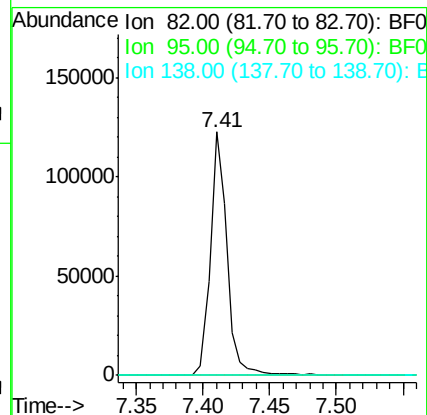
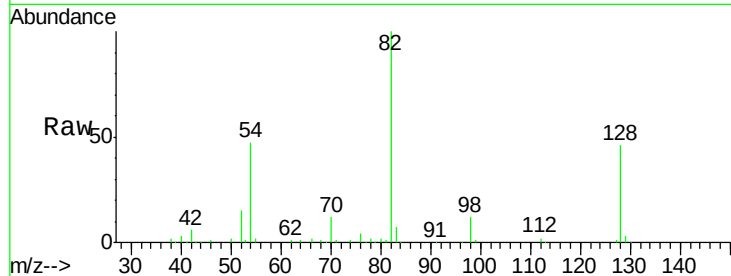
Tot Ion: 82 Resp: 106684

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

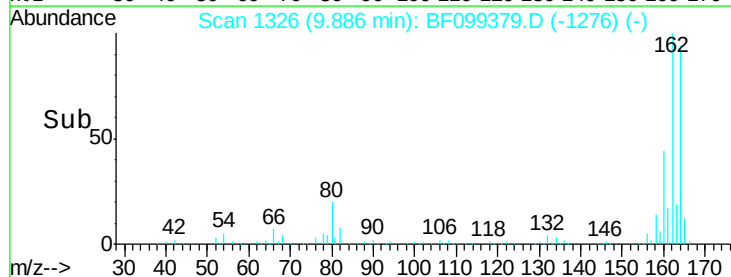
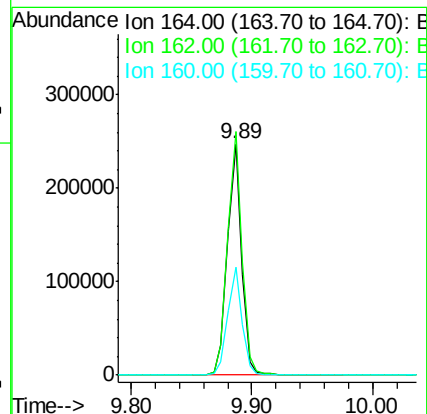
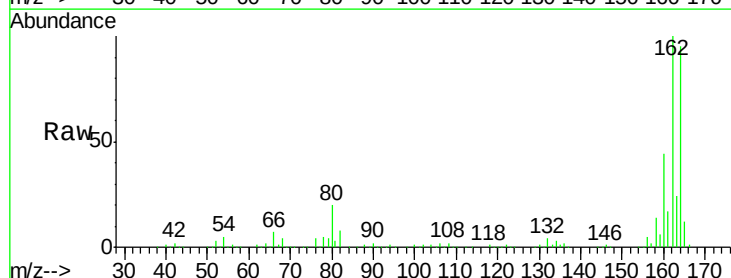
Tgt Ion: 164 Resp: 200979

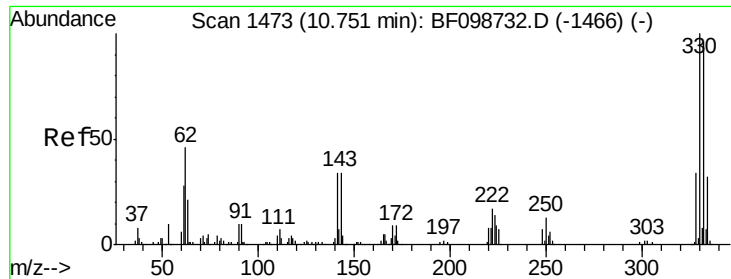
Ion Ratio Lower Upper

164 100

162 105.3 86.1 129.1

160 46.6 38.3 57.5

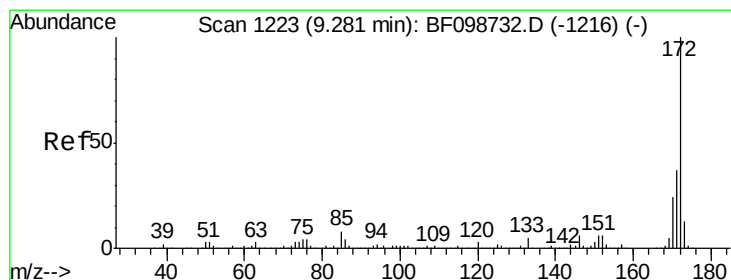
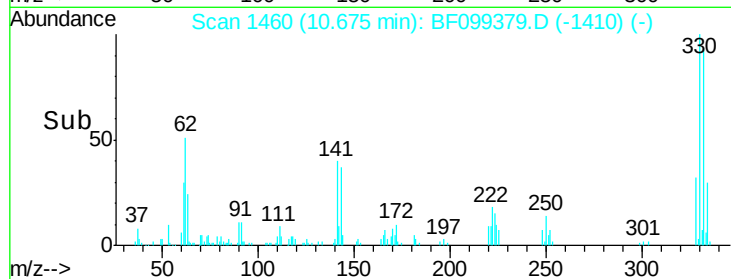
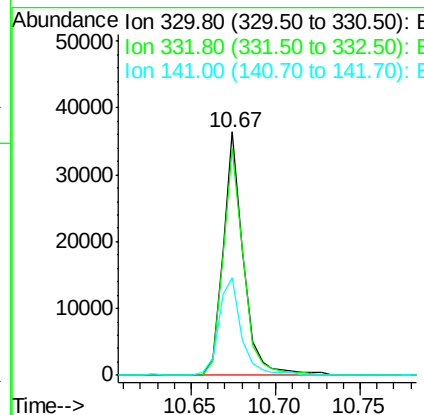
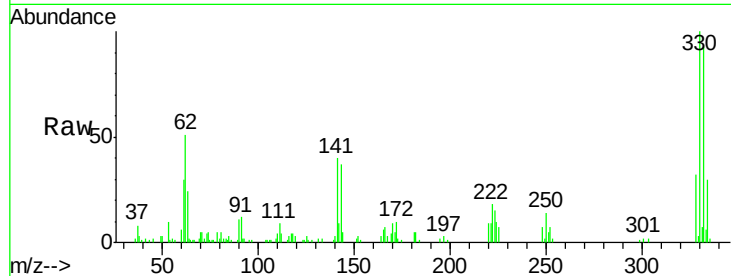




#41
 2,4,6-Tribromophenol
 Concen: 18.60 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF099379.D
 Acq: 12 Oct 2017 8:11

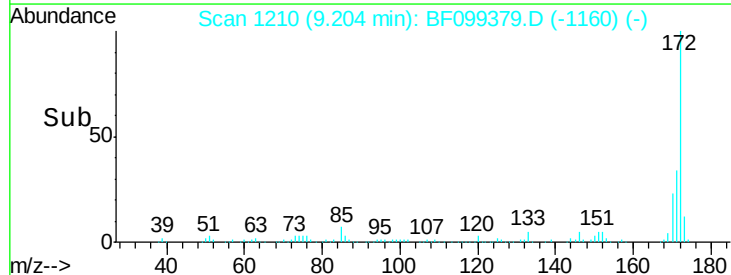
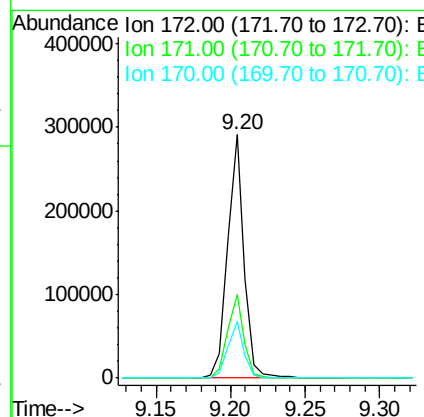
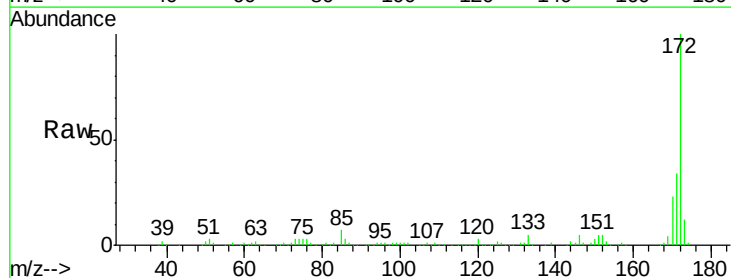
Instrument :
 BNA_F
 ClientSampleId :

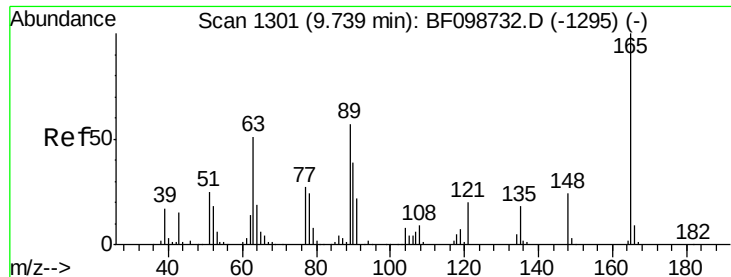
Tot Ion	330	Resp	30588
Ion Ratio	Lower	Upper	
330	100		
332	94.7	77.0	115.6
141	44.7	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 18.85 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF099379.D
 Acq: 12 Oct 2017 8:11

Tgt Ion	172	Resp	226979
Ion Ratio	Lower	Upper	
172	100		
171	34.4	29.7	44.5
170	23.1	19.6	29.4

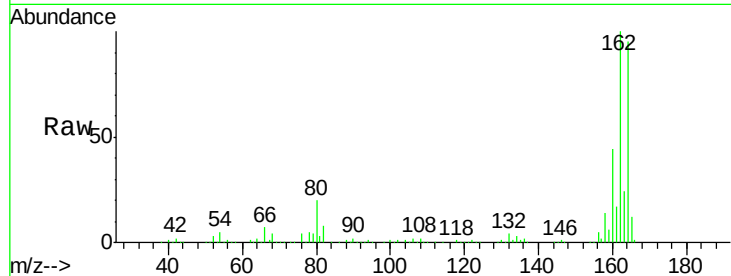




#50
 2,6-Dinitrotoluene
 Concen: 7.73 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.21 min
 Lab File: BF099379.D
 Acq: 12 Oct 2017 8:11

Instrument :
 BNA_F
 ClientSampleId :

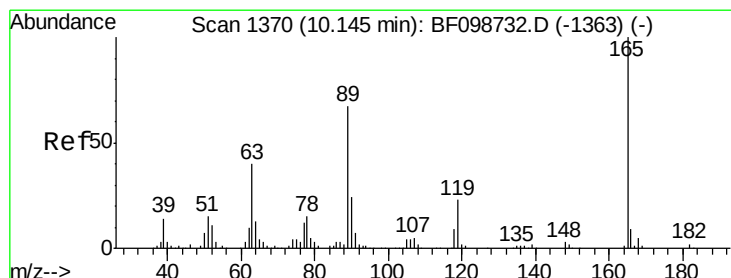
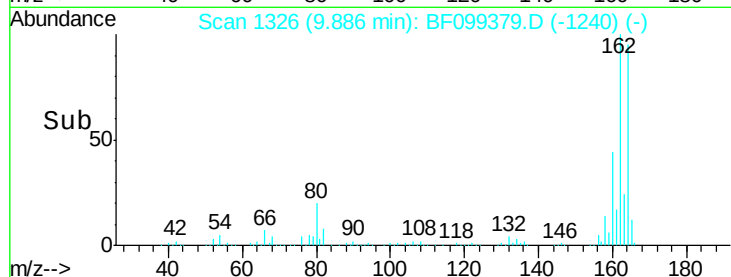
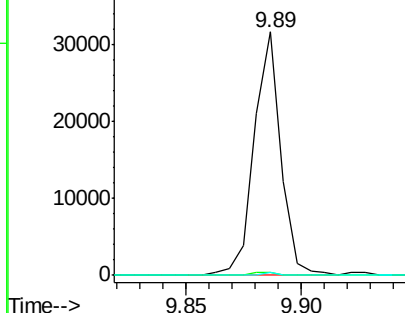
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	44.7	67.1#
89	1.1	44.0	66.0#



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



#56
 2,4-Dinitrotoluene
 Concen: 5.96 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.20 min
 Lab File: BF099379.D
 Acq: 12 Oct 2017 8:11

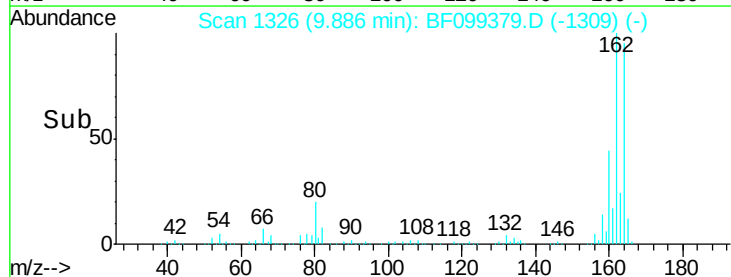
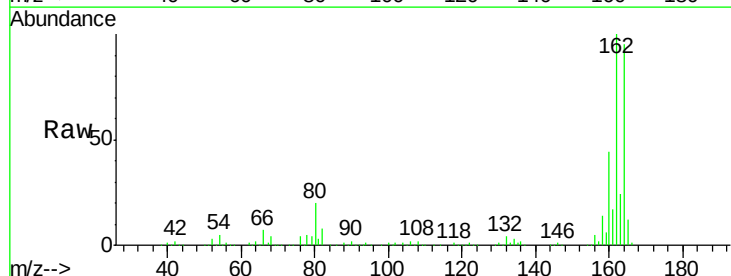
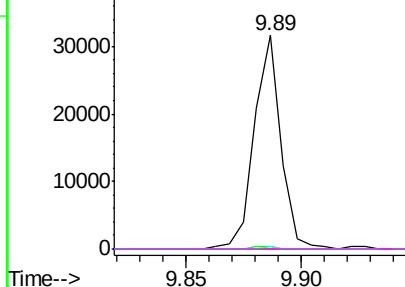
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	36.4	54.6#
89	1.1	57.8	86.6#
182	0.0	1.6	2.4#

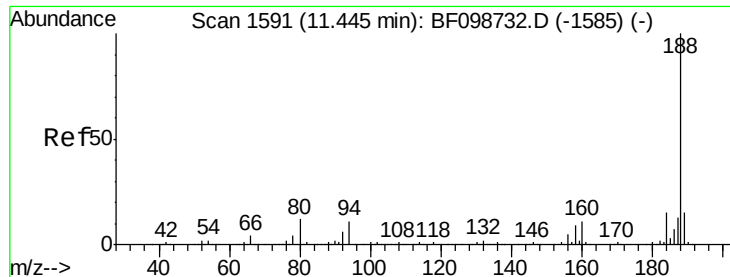
Abundance Ion 165.00 (164.70 to 165.70): E

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

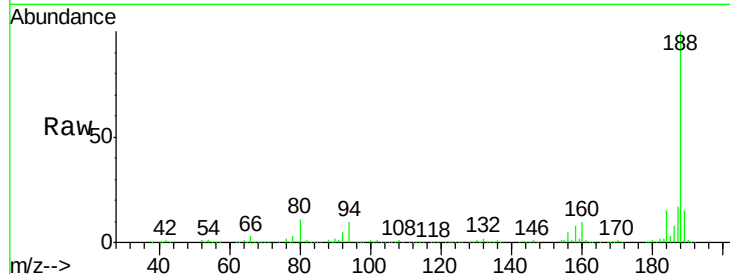




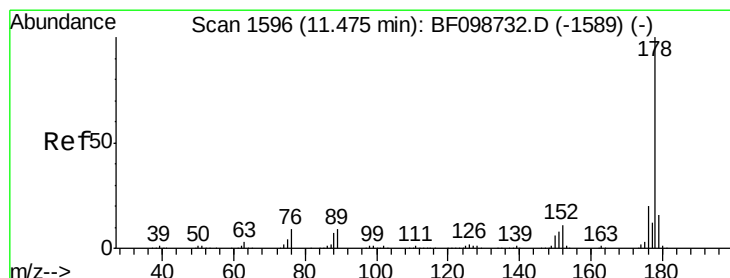
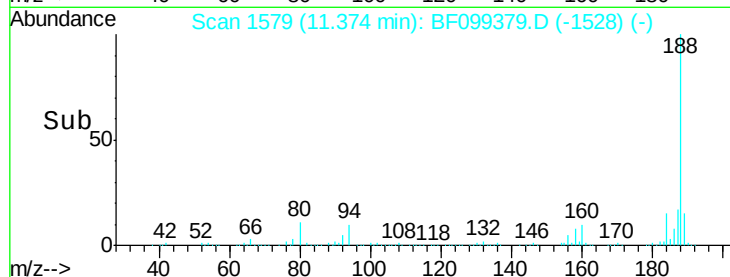
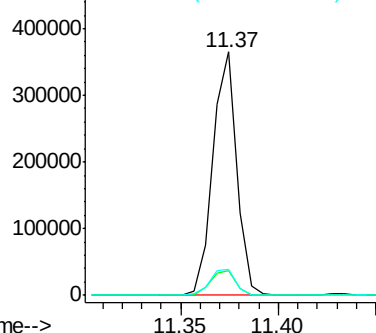
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Instrument :
BNA_F
ClientSampled :

Tot Ion	188	Resp	310493
Ion Ratio	100	Lower	Upper
94	10.0	8.5	12.7
80	10.6	9.2	13.8

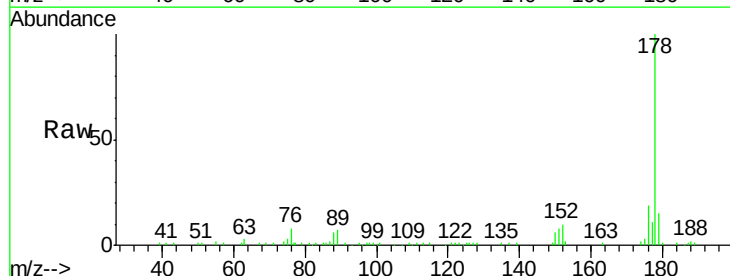


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

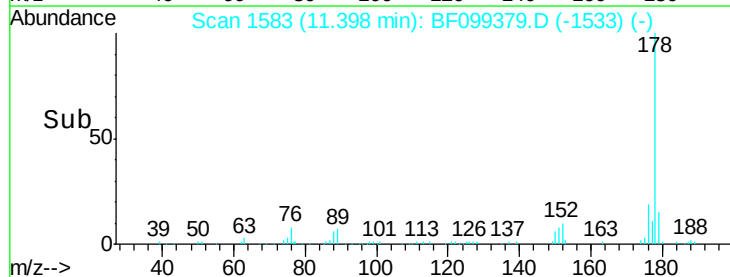
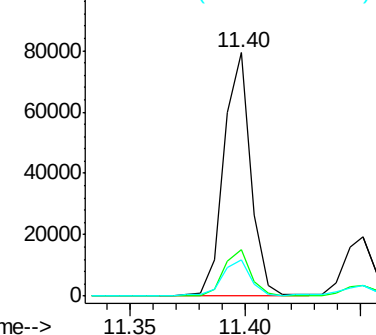


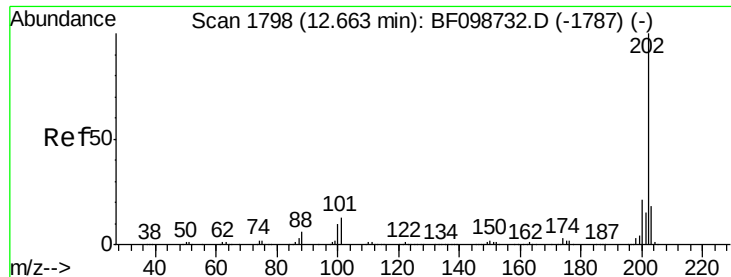
#70
Phenanthrene
Concen: 3.90 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Tgt Ion	178	Resp	64863
Ion Ratio	100	Lower	Upper
176	19.2	15.8	23.8
179	14.6	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





#74

Fluoranthene

Concen: 5.41 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BF099379.D

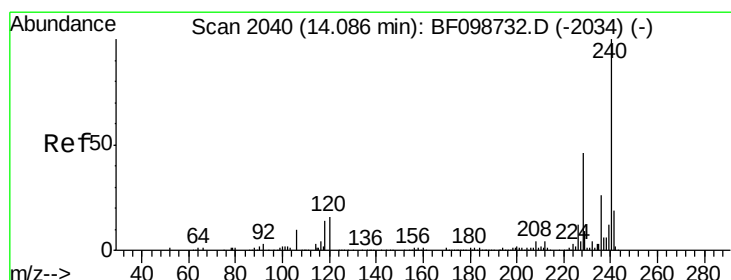
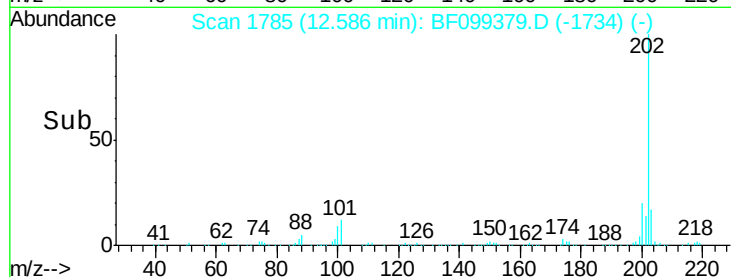
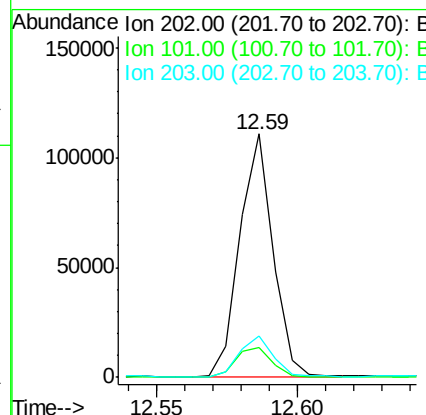
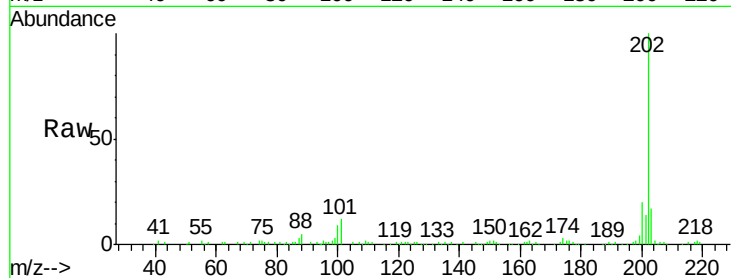
Acq: 12 Oct 2017 8:11

Instrument :

BNA_F

ClientSampled :

Tot Ion:	202	Resp:	91092
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	34.1
203	17.2	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

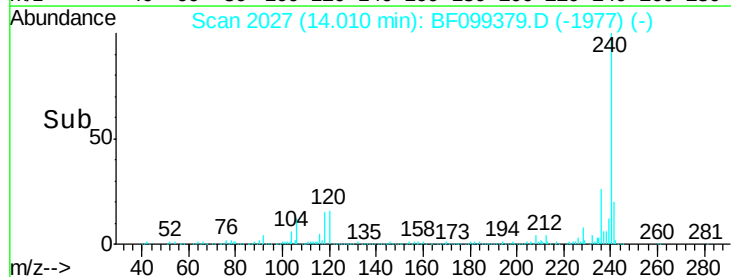
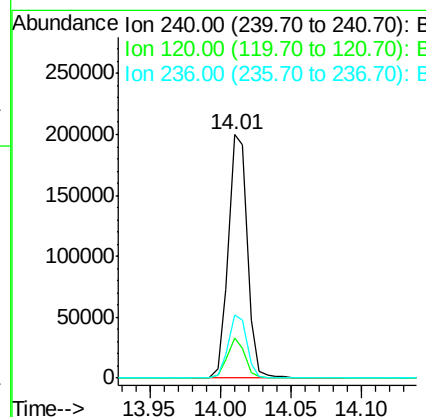
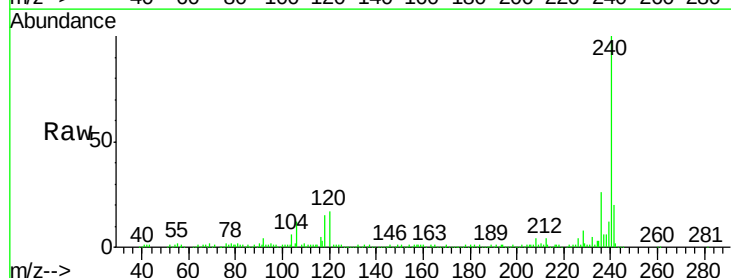
RT: 14.01 min Scan# 2027

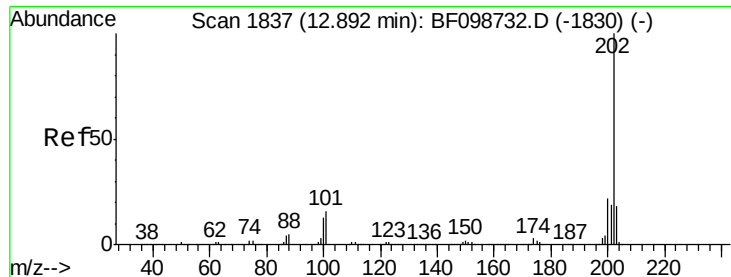
Delta R.T. -0.01 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Tgt Ion:	240	Resp:	188234
Ion Ratio	Lower	Upper	
240	100		
120	16.7	9.5	14.3#
236	25.8	20.7	31.1

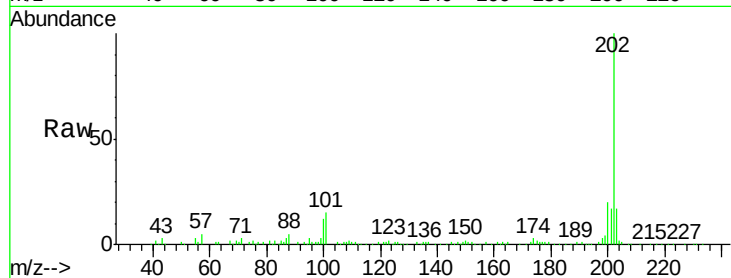




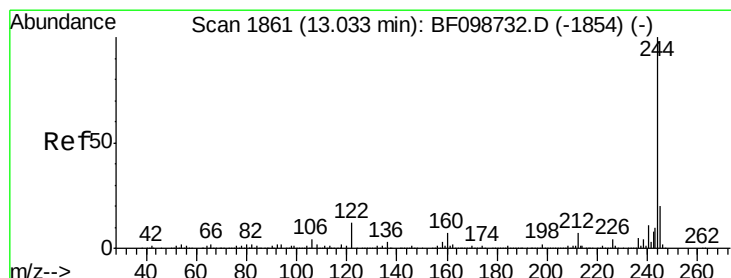
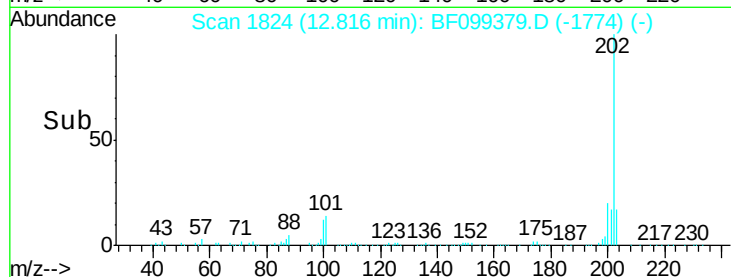
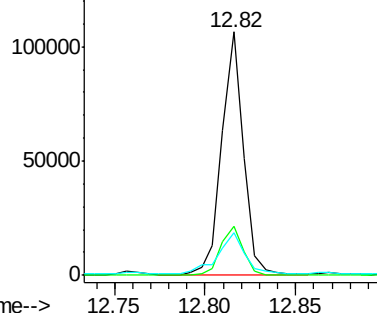
#77
Pvrene
Concen: 6.14 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Instrument :
BNA_F
ClientSampled :

Tot Ion:202 Resp: 88110
Ion Ratio Lower Upper
202 100
200 20.3 17.4 26.2
203 17.4 14.3 21.5

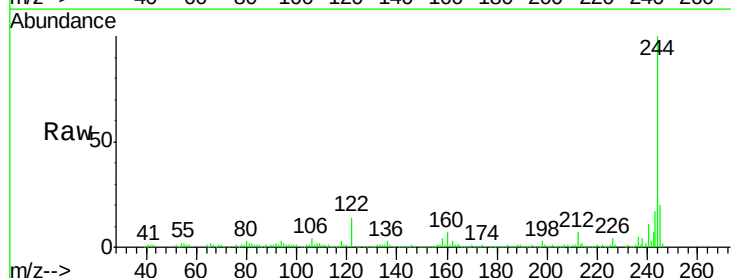


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

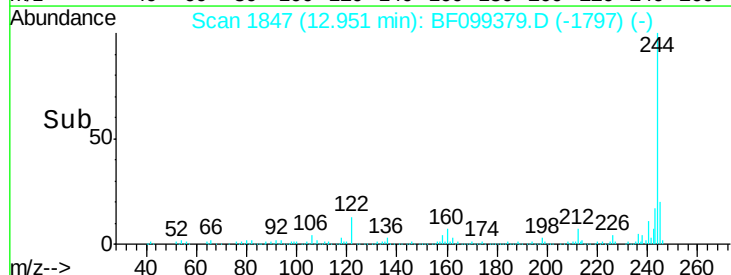
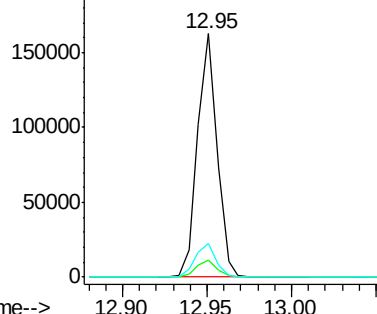


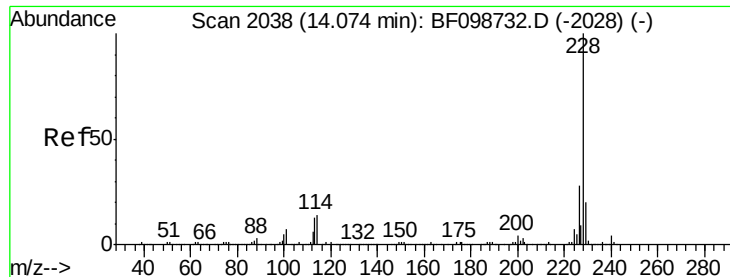
#78
Terphenyl-d14
Concen: 15.85 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BF099379.D
Acq: 12 Oct 2017 8:11

Tgt Ion:244 Resp: 131178
Ion Ratio Lower Upper
244 100
212 7.0 5.4 8.0
122 13.7 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: 3.46 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Instrument :

BNA_F

ClientSampleId :

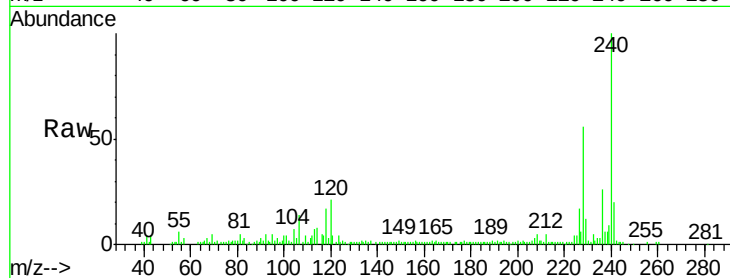
Tot Ion:228 Resp: 39452

Ion Ratio Lower Upper

228 100

226 30.7 22.6 33.8

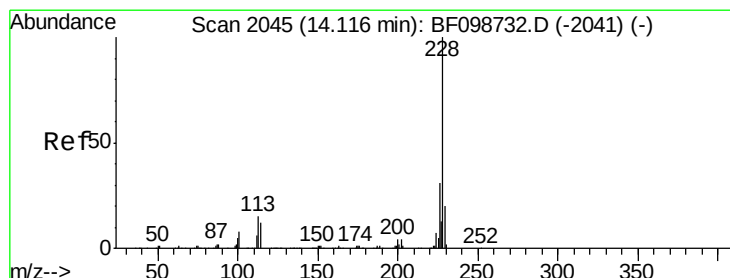
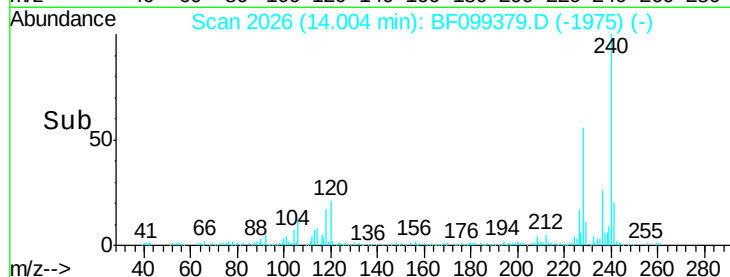
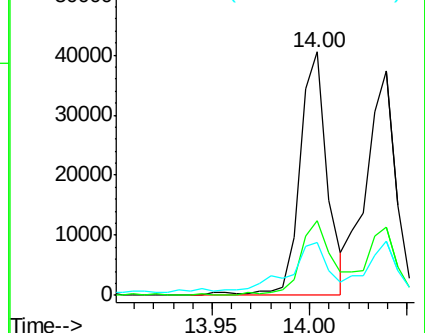
229 21.7 15.8 23.6



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: 3.63 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

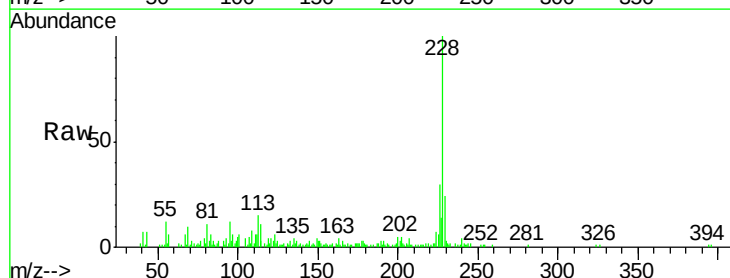
Tgt Ion:228 Resp: 39358

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

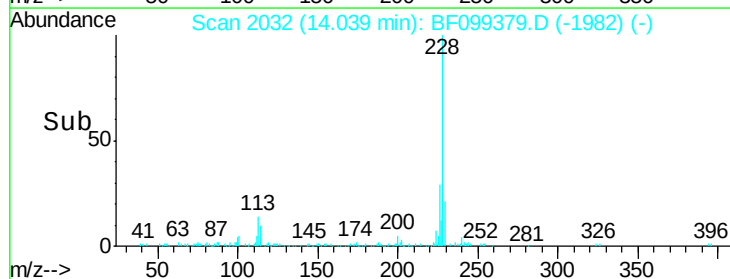
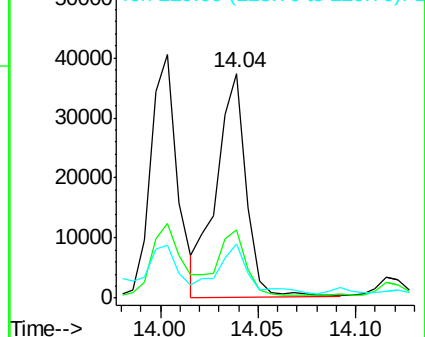
229 23.9 16.2 24.4

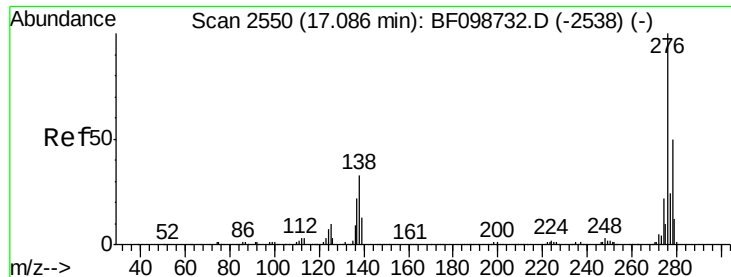


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

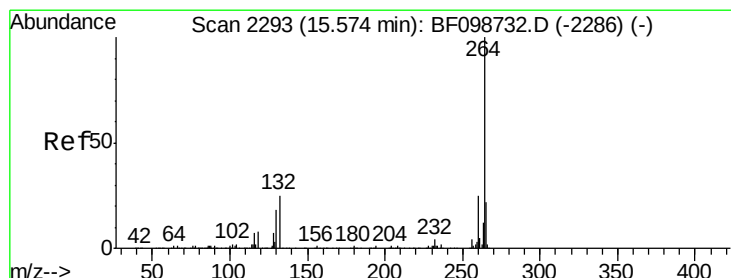
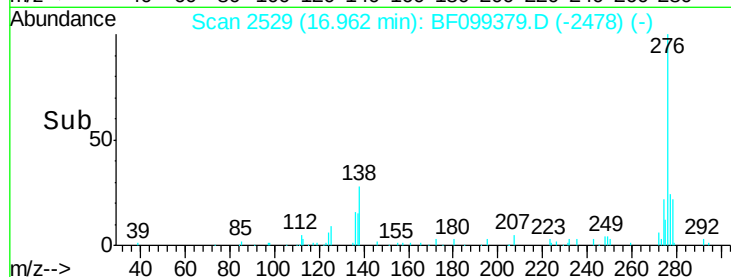
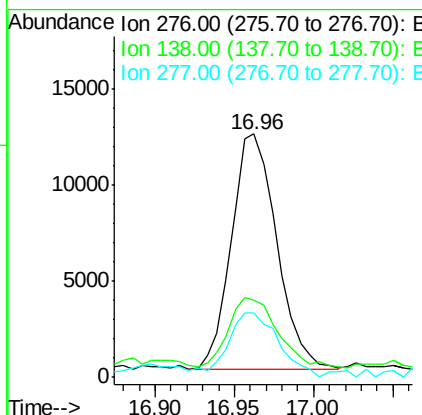
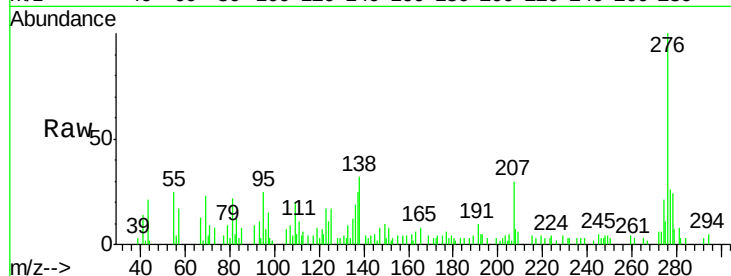




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.80 ng
 RT: 16.96 min Scan# 2529
 Delta R.T. 0.00 min
 Lab File: BF099379.D
 Acq: 12 Oct 2017 8:11

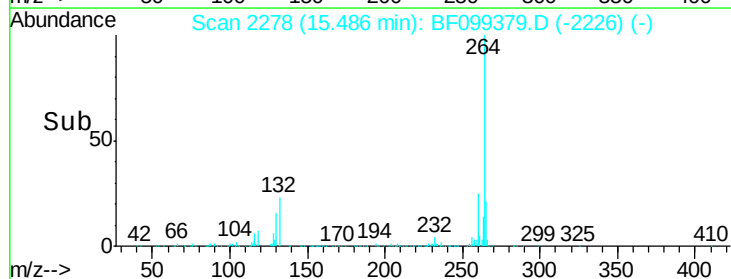
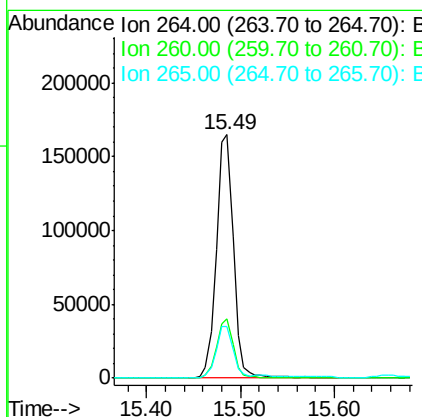
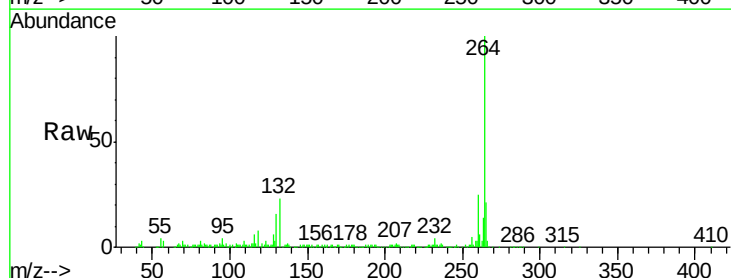
Instrument :
 BNA_F
 ClientSampleId :

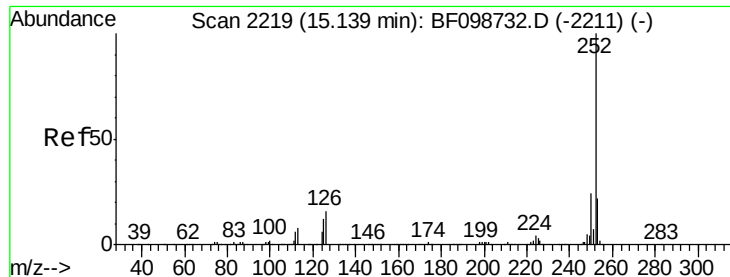
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.8	25.0	37.6
277	29.8	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 2278
 Delta R.T. 0.01 min
 Lab File: BF099379.D
 Acq: 12 Oct 2017 8:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	21.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 5.17 ng

RT: 15.05 min Scan# 2204

Delta R.T. 0.00 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Instrument :

BNA_F

ClientSampleId :

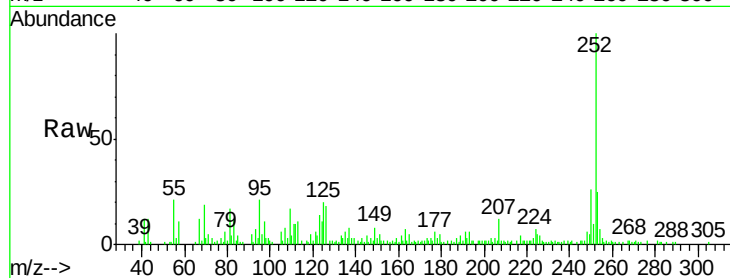
Tot Ion:252 Resp: 67313

Ion Ratio Lower Upper

252 100

253 25.2 17.0 25.6

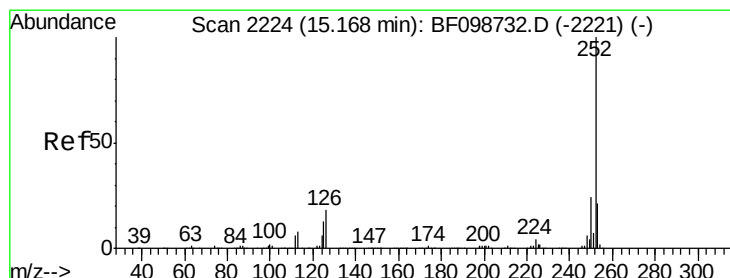
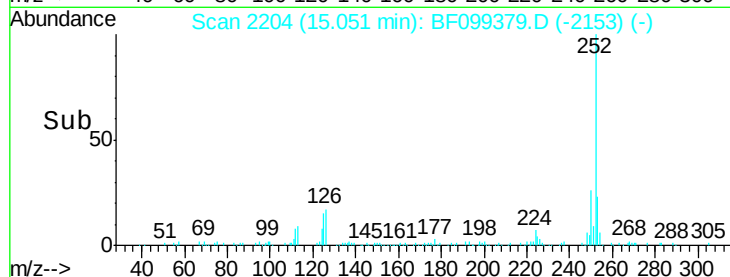
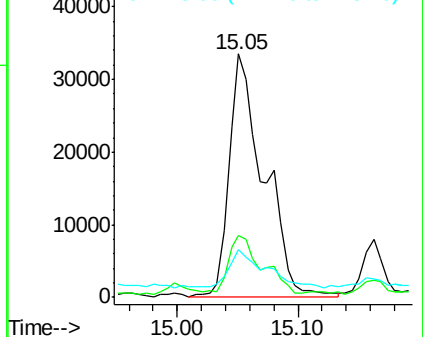
125 19.6 9.0 13.6#



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: 5.23 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.03 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

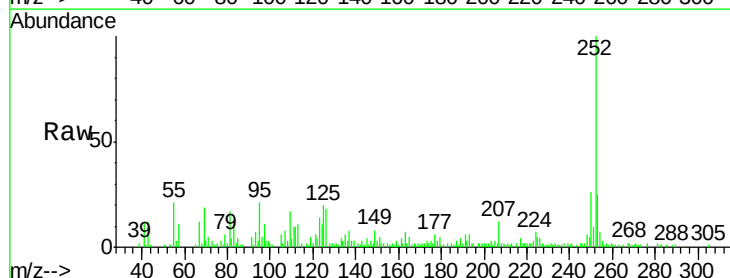
Tgt Ion:252 Resp: 67313

Ion Ratio Lower Upper

252 100

253 25.2 17.9 26.9

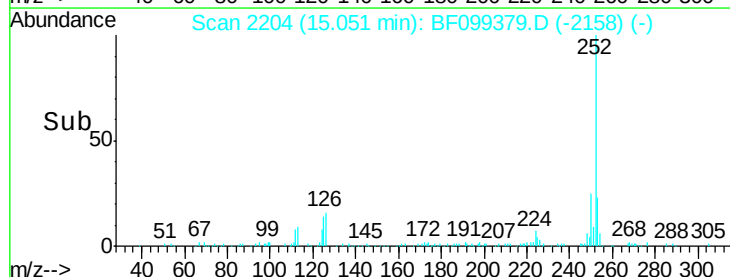
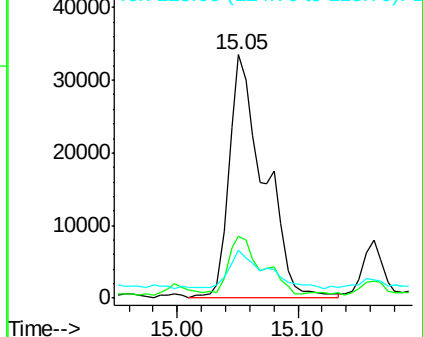
125 19.6 10.2 15.2#

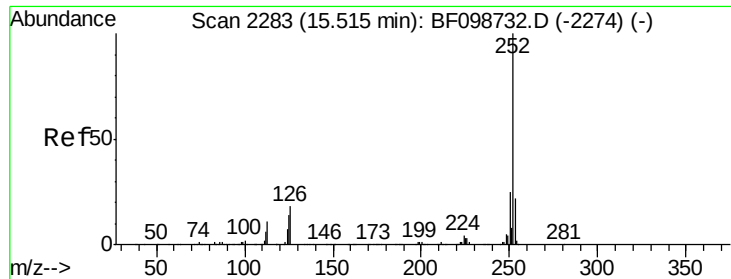


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.37 ng

RT: 15.42 min Scan# 2267

Delta R.T. 0.00 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Instrument :

BNA_F

ClientSampleId :

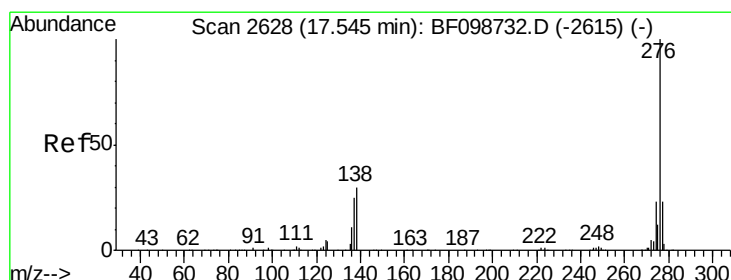
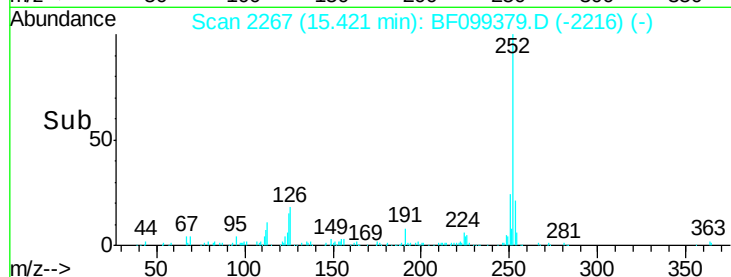
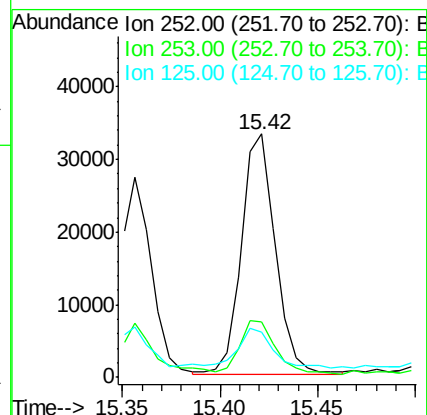
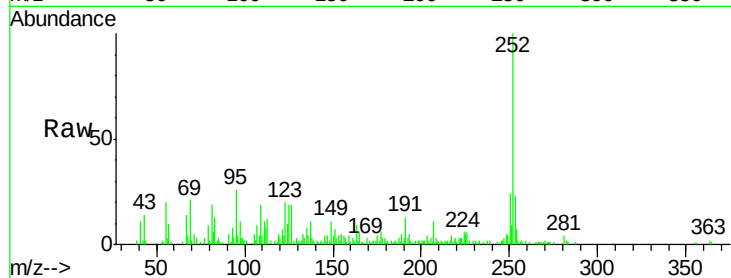
Tot Ion:252 Resp: 40324

Ion Ratio Lower Upper

252 100

253 22.8 17.1 25.7

125 18.5 9.8 14.6#



#91

Benzo(g,h,i)perylene

Concen: 3.68 ng

RT: 17.41 min Scan# 2605

Delta R.T. 0.00 min

Lab File: BF099379.D

Acq: 12 Oct 2017 8:11

Tgt Ion:276 Resp: 34835

Ion Ratio Lower Upper

276 100

277 24.9 17.9 26.9

138 35.5 21.8 32.8#

