

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102417\
 Data File : BF099784.D
 Acq On : 24 Oct 2017 13:25
 Operator : SJ/JU
 Sample : I5819-16DL 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 24 18:08:18 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 23 23:39:26 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	94721	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	388655	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	181500	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	326340	20.00	ng	0.00
75) Chrysene-d12	13.98	240	200679	20.00	ng	0.00
86) Perylene-d12	15.44	264	163695	20.00	ng	0.00

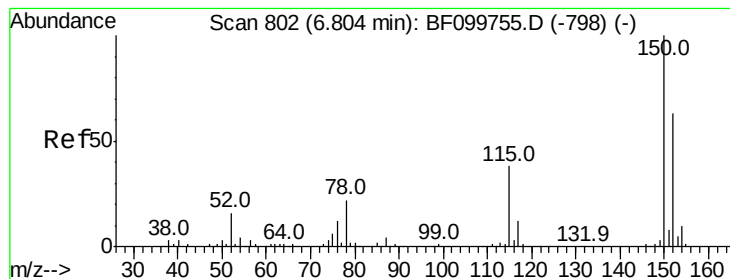
System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	161949	26.84	ng	0.00
7) Phenol-d6	6.45	99	124983	17.47	ng	0.00
23) Nitrobenzene-d5	7.37	82	218808	36.25	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	77266	46.71	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	478373	40.66	ng	0.00
78) Terphenyl-d14	12.91	244	408854	44.52	ng	0.00

Target Compounds

						Qvalue
19) n-Nitroso-di-n-propylamine	7.37	70	25777	6.149	ng	# 76
25) Isophorone	7.37	82	218835	19.977	ng	# 64
31) Naphthalene	8.10	128	129350	6.895	ng	99
33) 4-Chloroaniline	8.10	127	16734	2.160	ng	# 33
48) Acenaphthylene	9.70	152	64589	3.517	ng	99
50) 2,6-Dinitrotoluene	9.84	165	24238	8.022	ng	# 24
51) Acenaphthene	9.87	154	52181	4.650	ng	97
53) 2,4-Dinitrophenol	9.92	184	446	6.108	ng	# 1
57) Fluorene	10.39	166	85120	6.490	ng	98
70) Phenanthrene	11.36	178	598869	32.517	ng	98
71) Anthracene	11.41	178	85821	4.591	ng	96
74) Fluoranthene	12.55	202	393869	20.579	ng	96
77) Pyrene	12.78	202	295737	19.381	ng	99
80) Benzo(a)anthracene	13.97	228	67012	5.268	ng	99
82) Chrysene	14.00	228	55901	4.674	ng	96
85) Indeno(1,2,3-cd)pyrene	16.92	276	71612	6.522	ng	97
87) Benzo(b)fluoranthene	15.02	252	47177	4.564	ng	# 97
88) Benzo(k)fluoranthene	15.02	252	47177	4.840	ng	99
89) Benzo(a)pyrene	15.39	252	45359	4.885	ng	# 95
90) Dibenzo(a,h)anthracene	16.92	278	43903	5.321	ng	# 93
91) Benzo(g,h,i)perylene	17.38	276	32540	4.031	ng	95

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

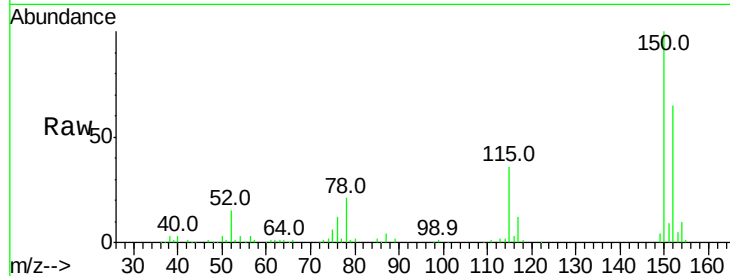


#1

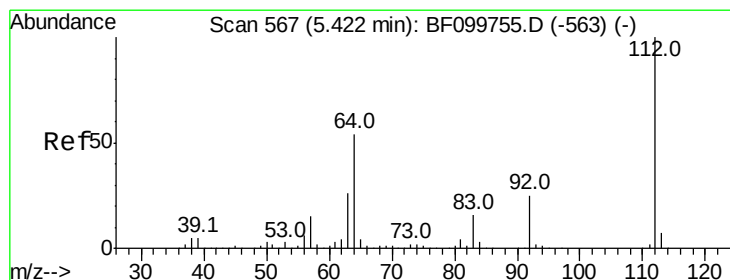
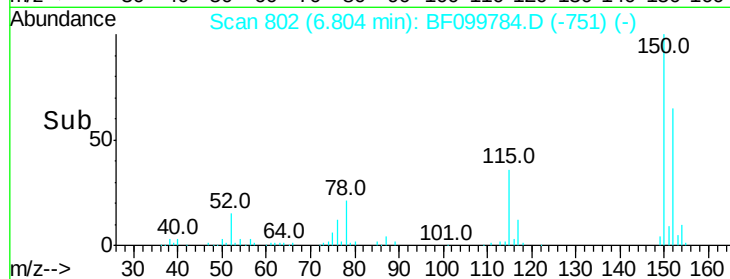
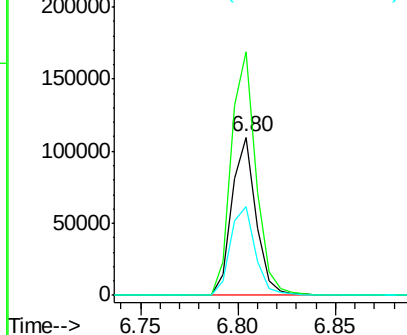
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 94721
Ion Ratio Lower Upper
152 100
150 154.0 124.6 186.8
115 56.0 50.1 75.1



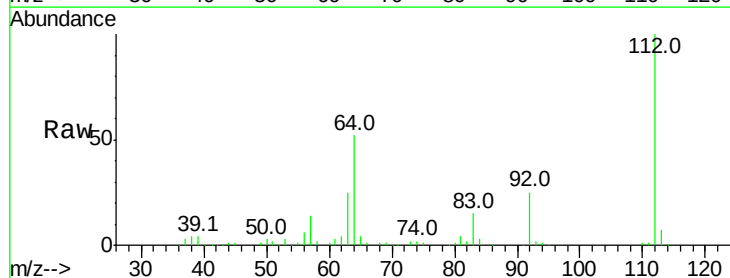
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



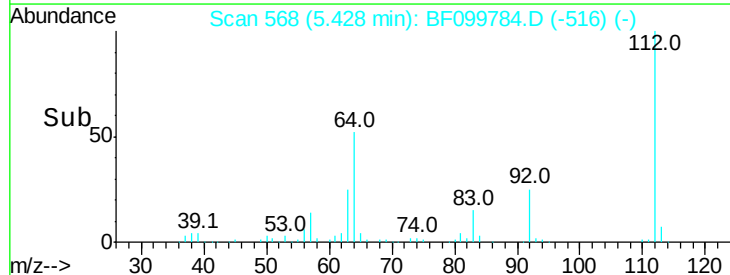
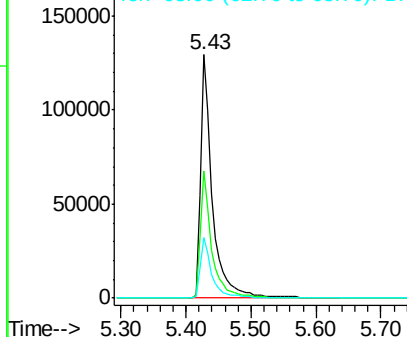
#5

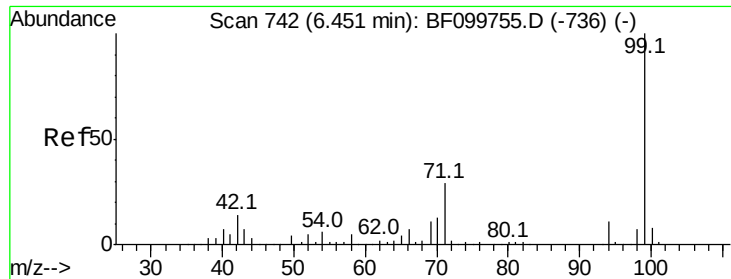
2-Fluorophenol
Concen: 26.842 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

Tgt Ion:112 Resp: 161949
Ion Ratio Lower Upper
112 100
64 52.3 47.9 71.9
63 25.0 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: 17.471 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :

BNA_F

ClientSampled :

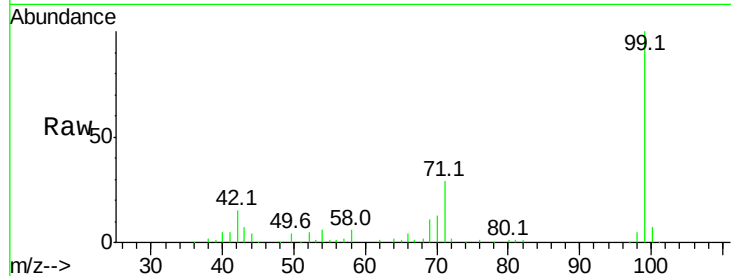
Tot Ion: 99 Resp: 124983

Ion Ratio Lower Upper

99 100

42 14.7 14.5 21.7

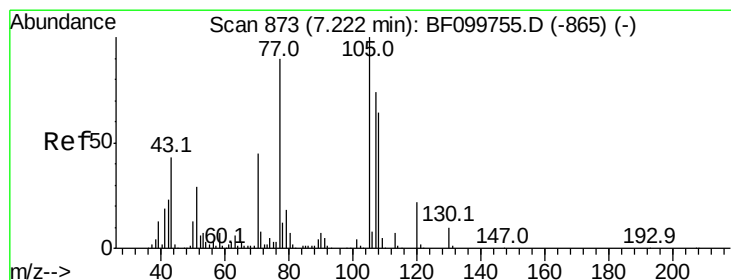
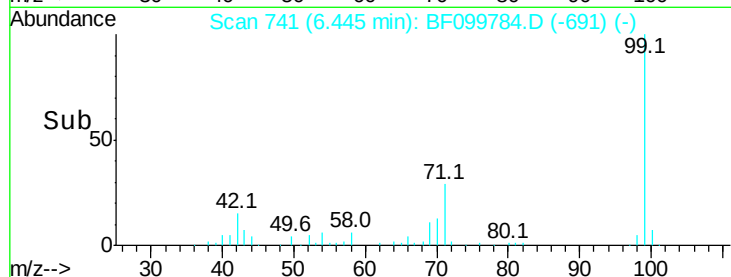
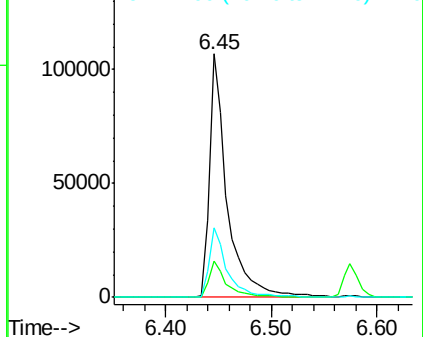
71 28.7 25.4 38.0



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: 6.149 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.15 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Tgt Ion: 70 Resp: 25777

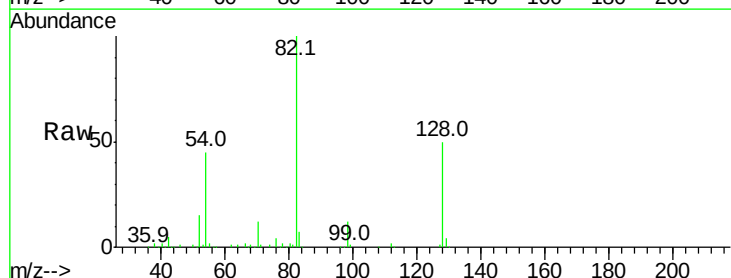
Ion Ratio Lower Upper

70 100

42 45.1 47.5 71.3#

101 0.0 7.4 11.2#

130 2.8 16.6 25.0#

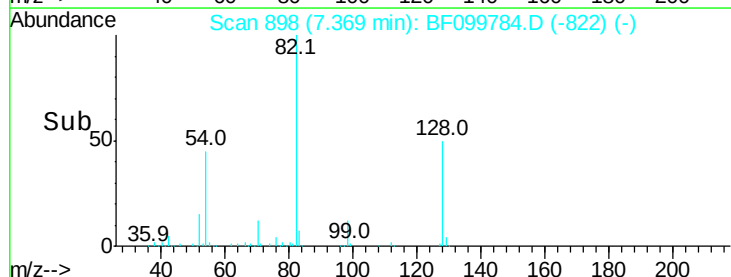
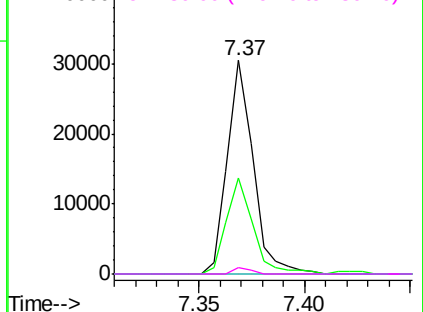


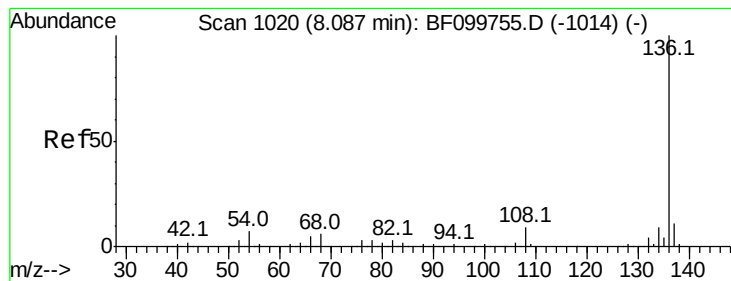
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 388655

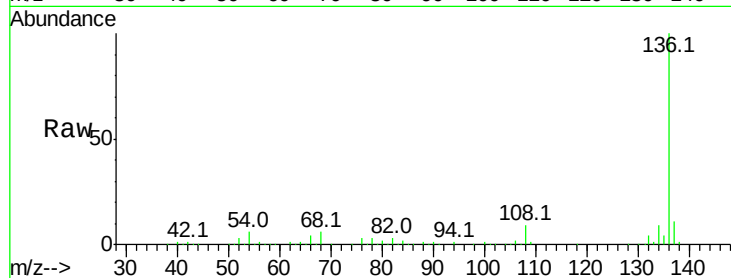
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 6.4 6.6 9.8#

68 5.6 5.0 7.4

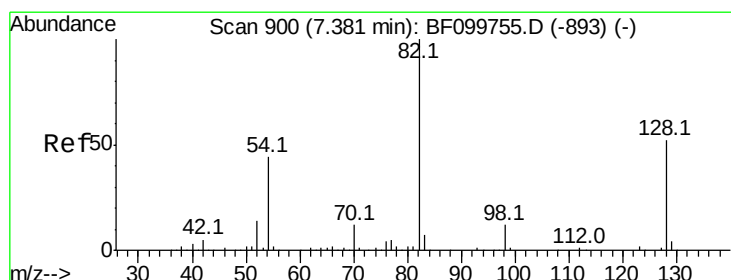
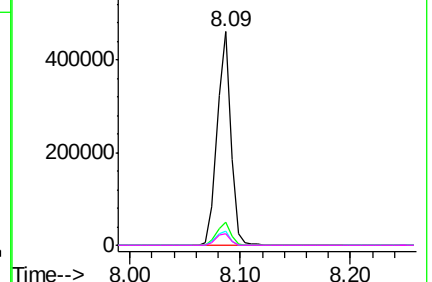
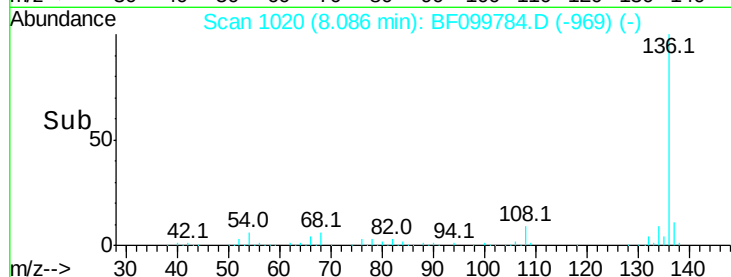


Abundance Ion 136.00 (135.70 to 136.70): E

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: 36.245 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

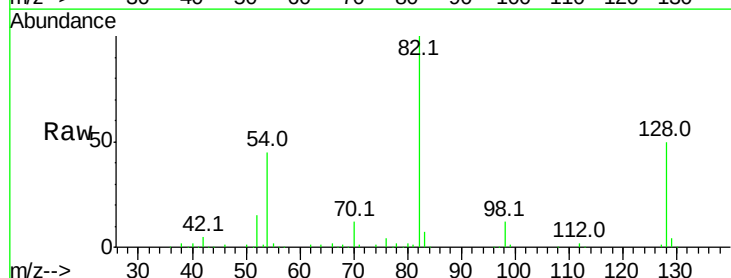
Tgt Ion: 82 Resp: 218808

Ion Ratio Lower Upper

82 100

128 49.9 36.1 54.1

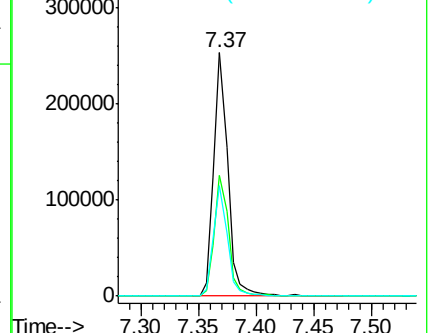
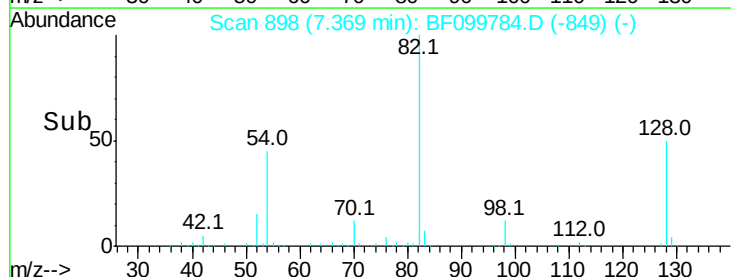
54 45.2 41.4 62.2

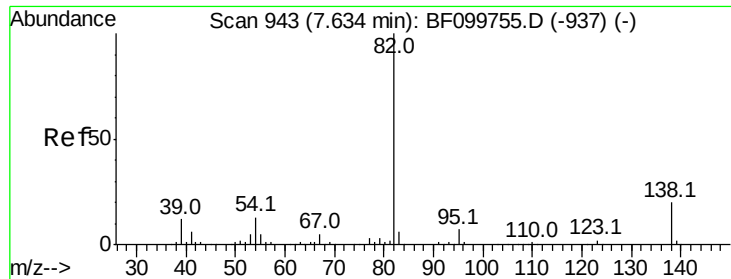


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 19.977 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :

BNA_F

ClientSampleId :

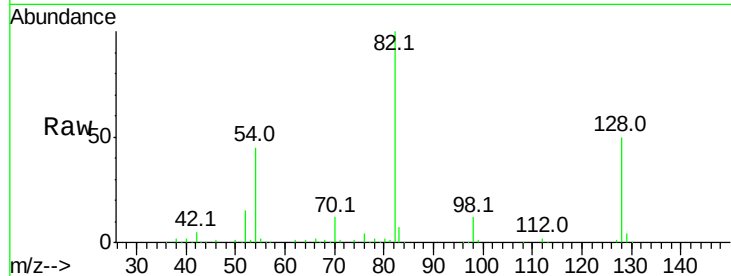
Tot Ion: 82 Resp: 218835

Ion Ratio Lower Upper

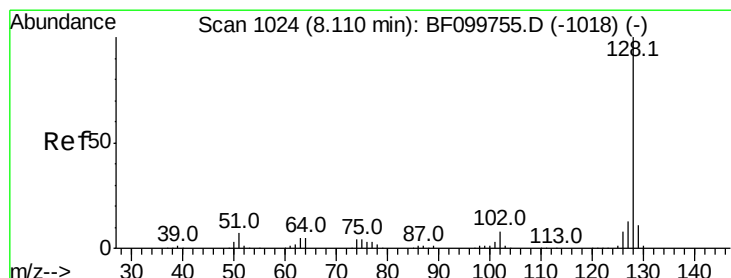
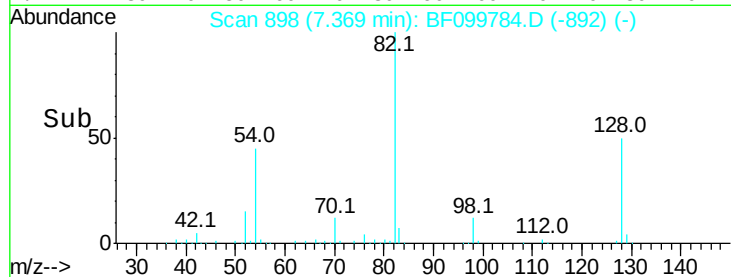
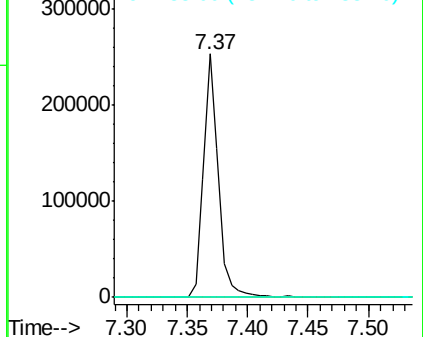
82 100

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): BF0



#31

Naphthalene

Concen: 6.895 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

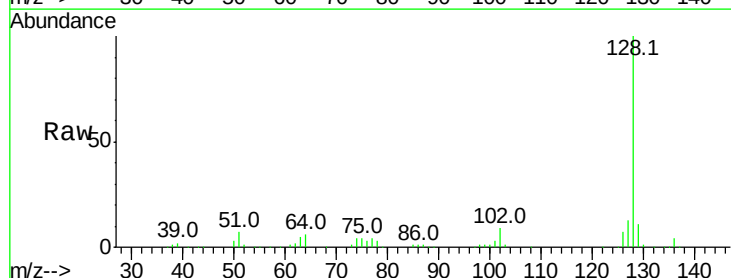
Tgt Ion:128 Resp: 129350

Ion Ratio Lower Upper

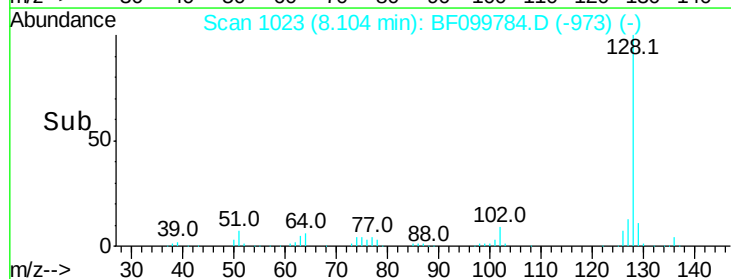
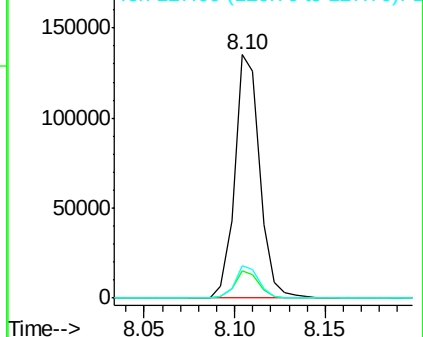
128 100

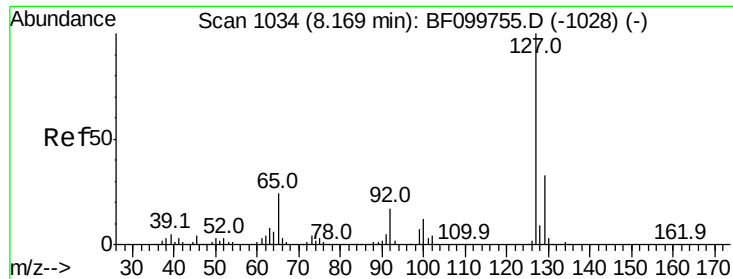
129 11.0 8.8 13.2

127 13.2 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

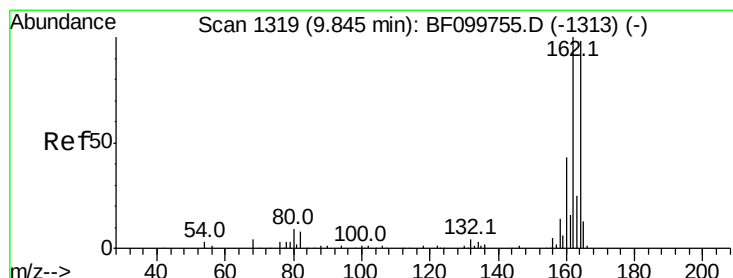
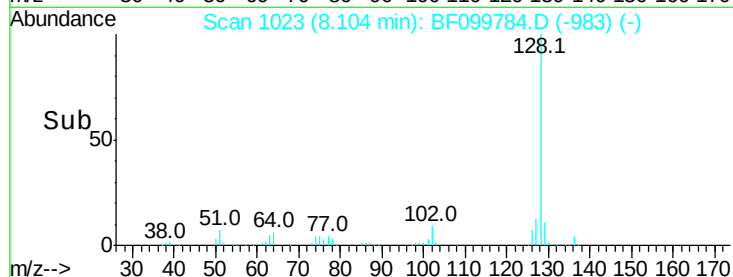
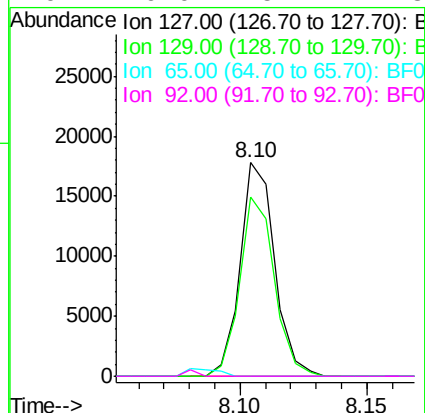
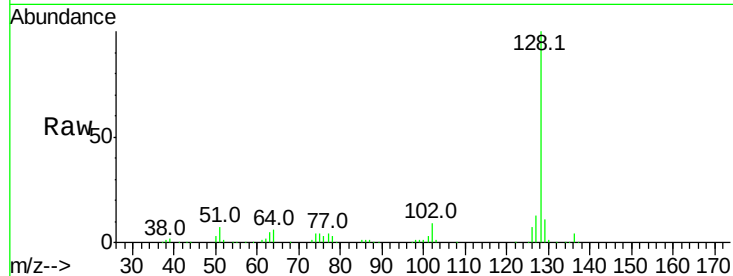




#33
4-Chloroaniline
Concen: 2.160 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.06 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

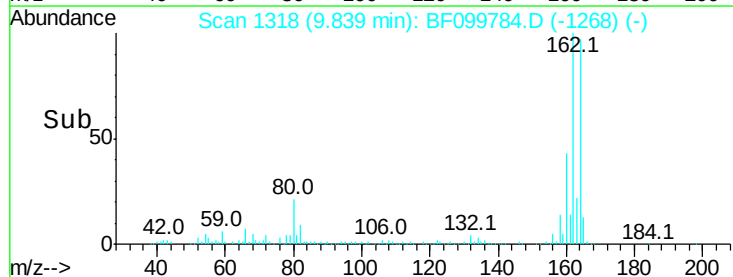
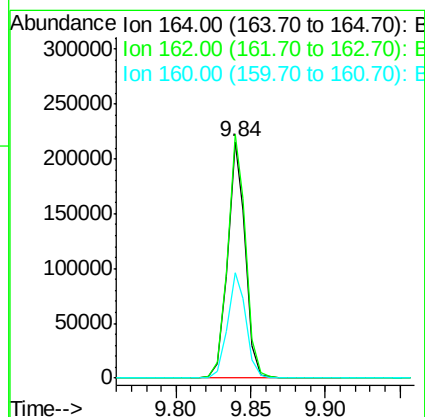
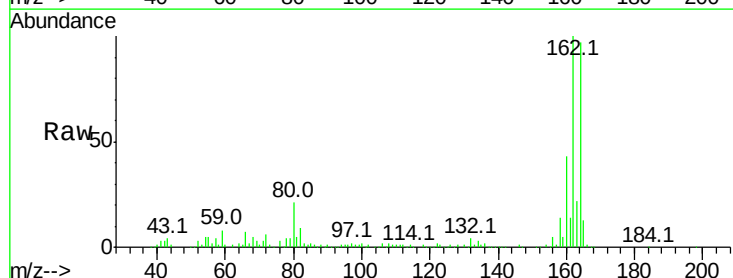
Instrument :
BNA_F
ClientSampled :

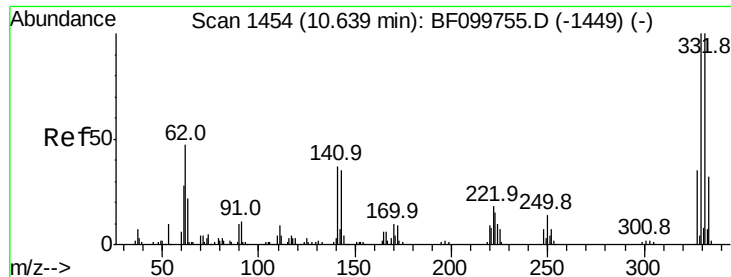
Tot Ion:	127	Resp:	16734
Ion	Ratio	Lower	Upper
127	100		
129	83.8	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

Tgt Ion:	164	Resp:	181500
Ion	Ratio	Lower	Upper
164	100		
162	103.1	86.1	129.1
160	44.5	38.3	57.5

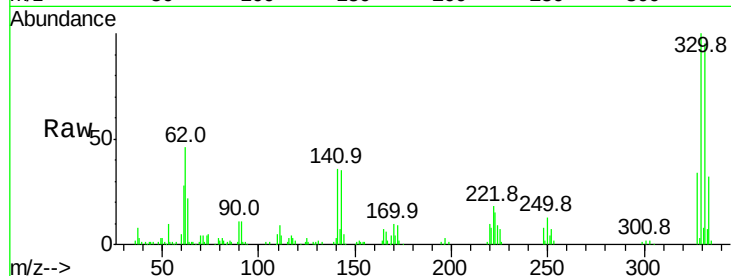




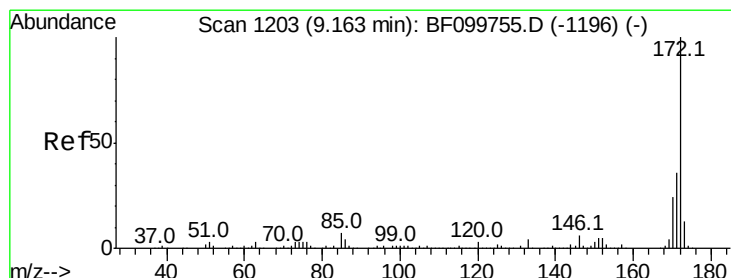
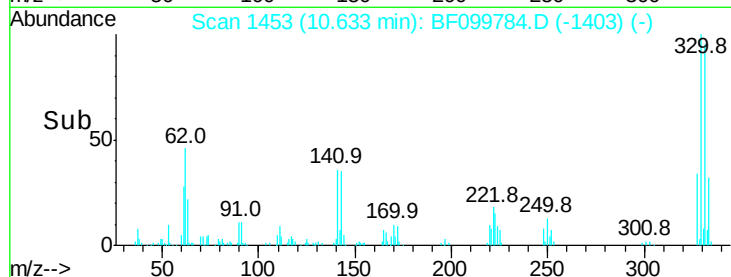
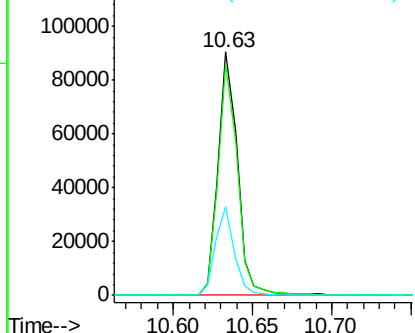
#41
 2,4,6-Tribromophenol
 Concen: 46.714 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 77266
 Ion Ratio Lower Upper
 330 100
 332 95.0 77.0 115.6
 141 36.0 29.9 44.9

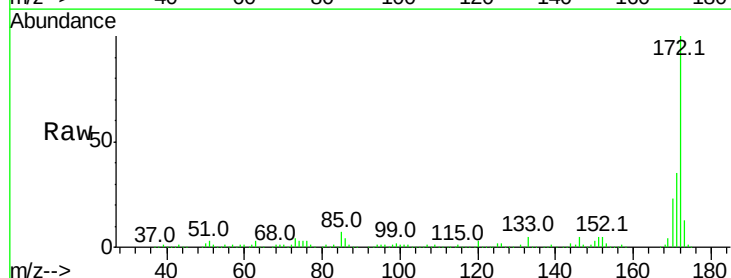


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

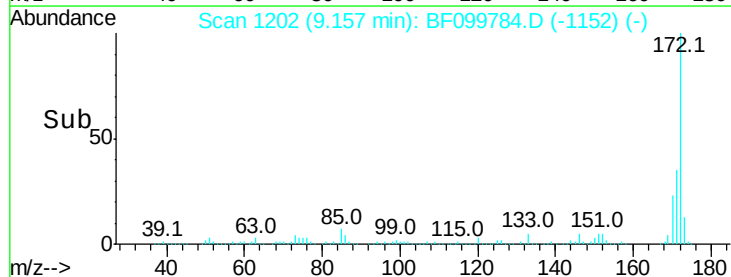
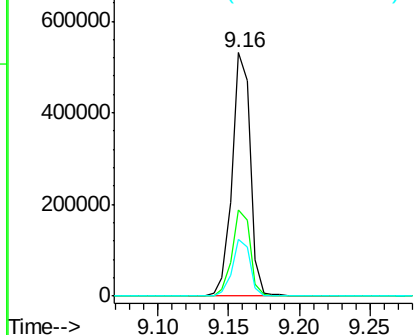


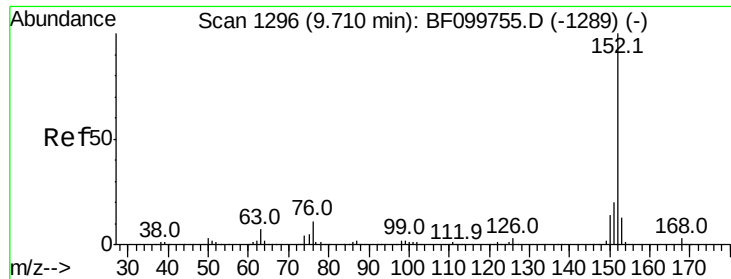
#44
 2-Fluorobiphenyl
 Concen: 40.664 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

Tgt Ion:172 Resp: 478373
 Ion Ratio Lower Upper
 172 100
 171 35.2 29.7 44.5
 170 23.4 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

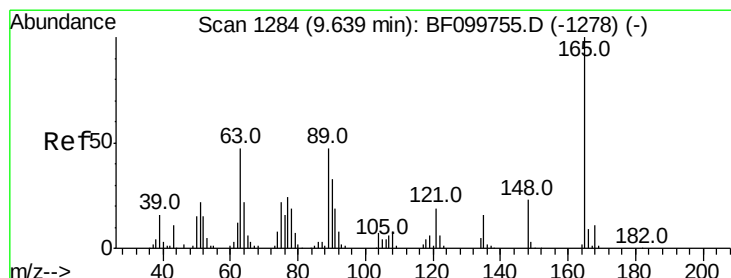
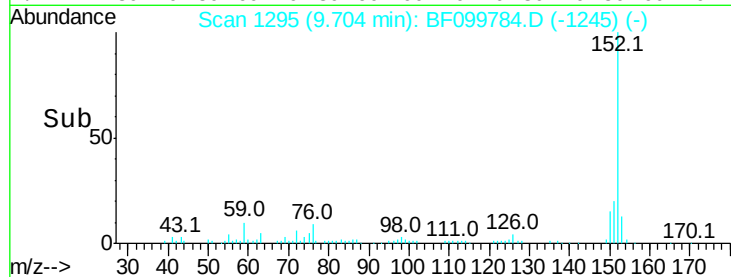
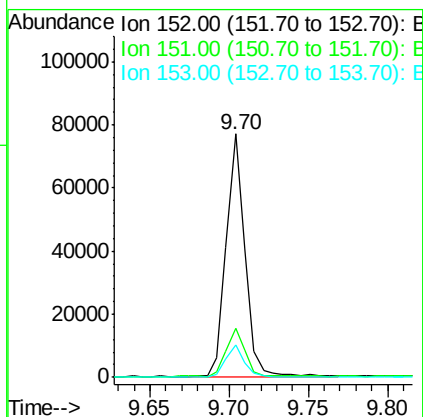
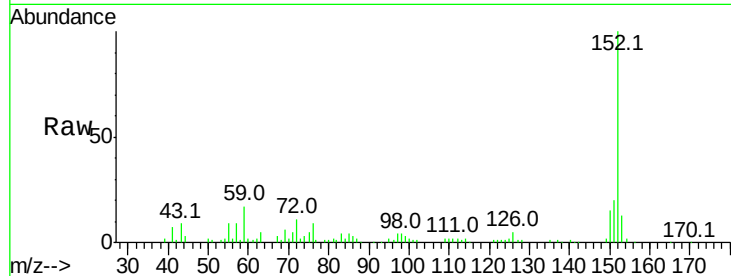




#48
 Acenaphthylene
 Concen: 3.517 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.01 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

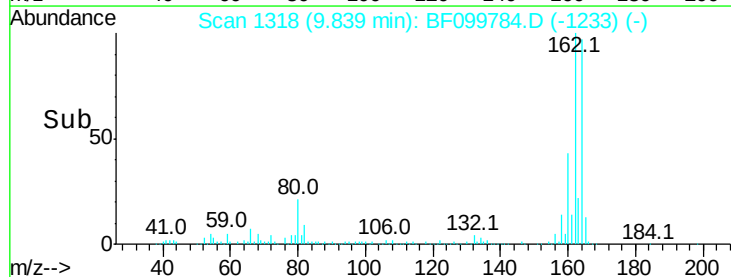
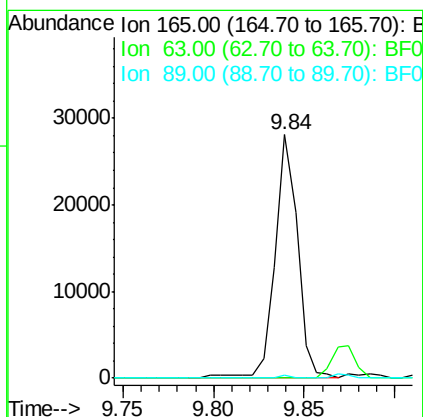
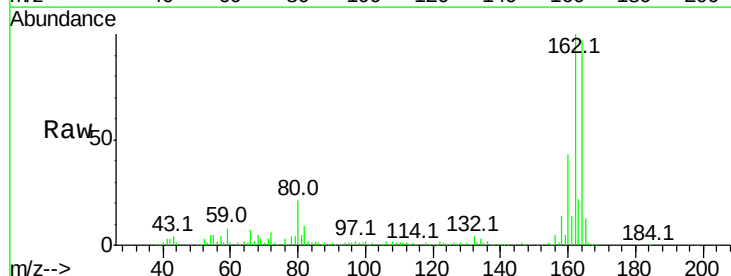
Instrument :
 BNA_F
 ClientSampled :

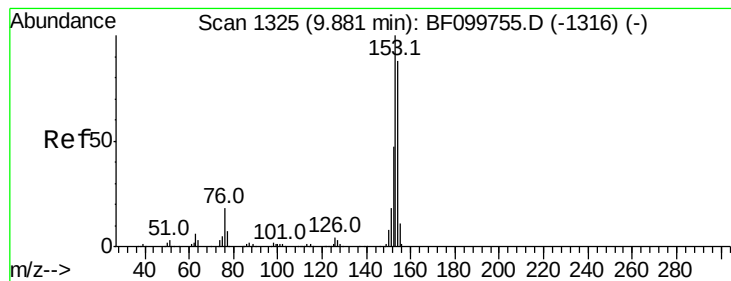
Tot Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5
153	13.2	10.7	16.1



#50
 2,6-Dinitrotoluene
 Concen: 8.022 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.20 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

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





#51

Acenaphthene

Concen: 4.650 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :

BNA_F

ClientSampleId :

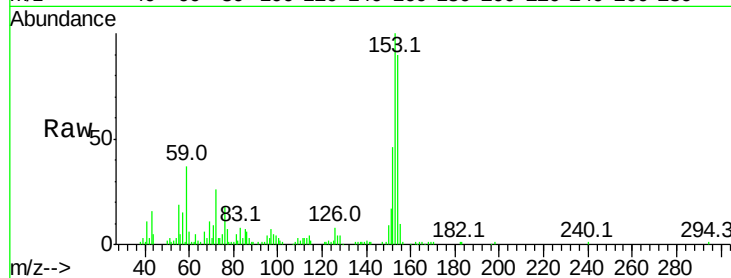
Tot Ion:154 Resp: 52181

Ion Ratio Lower Upper

154 100

153 111.6 91.2 136.8

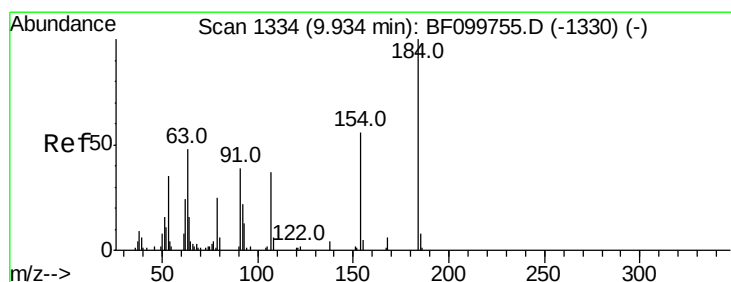
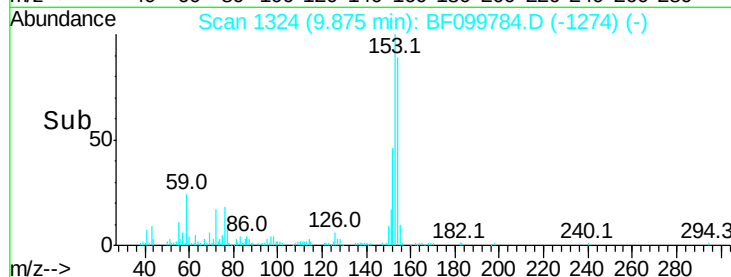
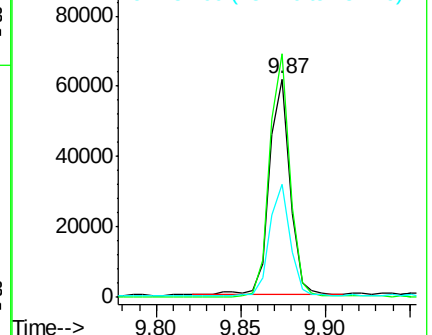
152 51.6 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#53

2,4-Dinitrophenol

Concen: 6.108 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

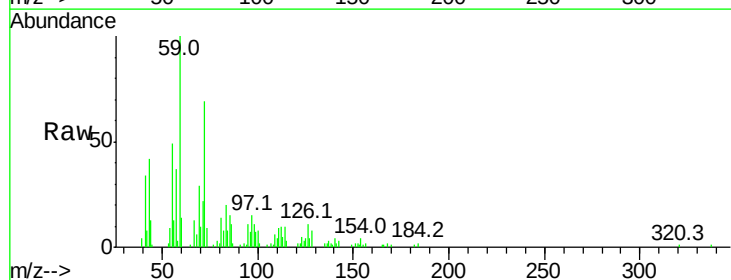
Tgt Ion:184 Resp: 446

Ion Ratio Lower Upper

184 100

63 0.0 54.2 81.2#

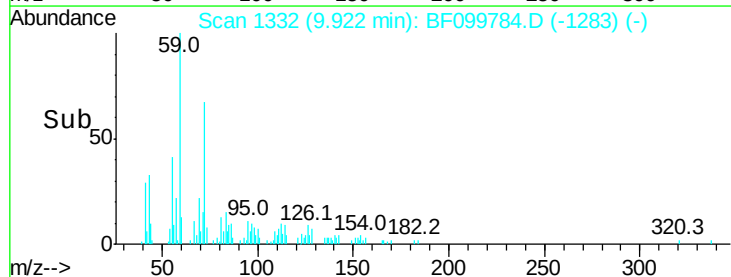
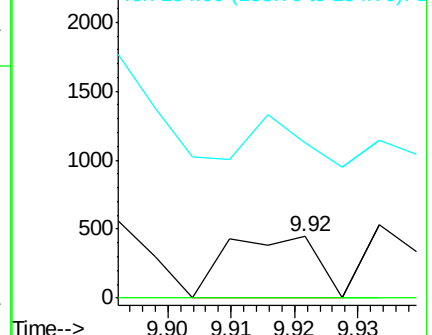
154 250.7 53.5 80.3#

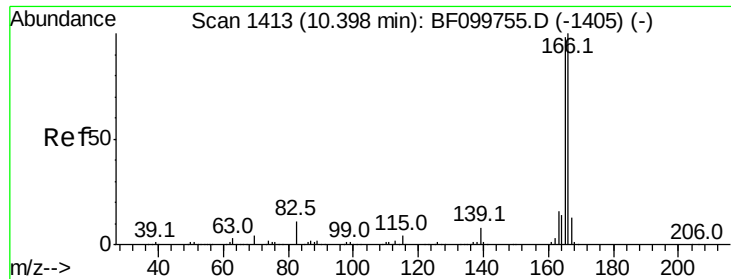


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E



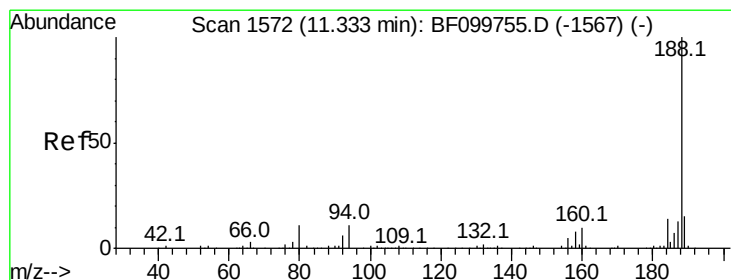
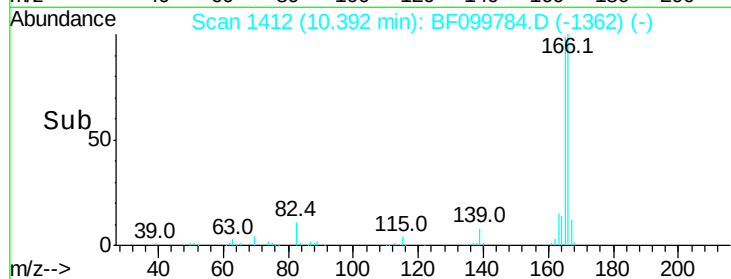
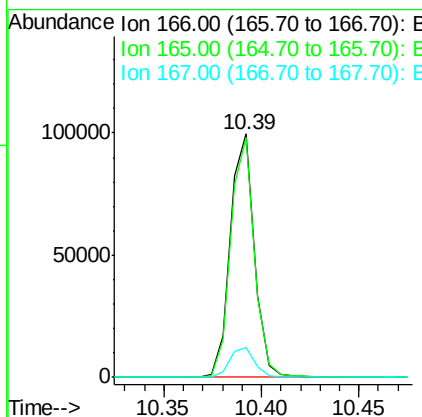
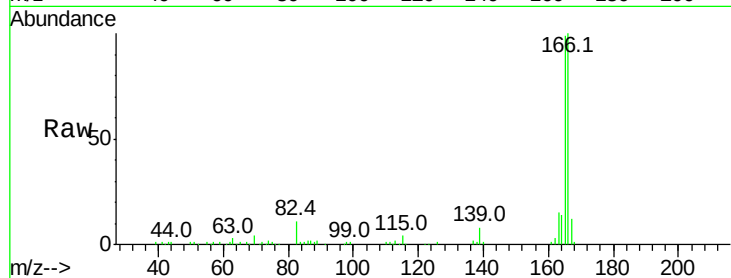


#57
Fluorene
 Concen: 6.490 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 85120

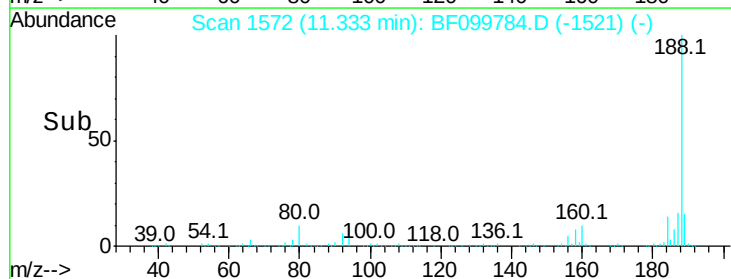
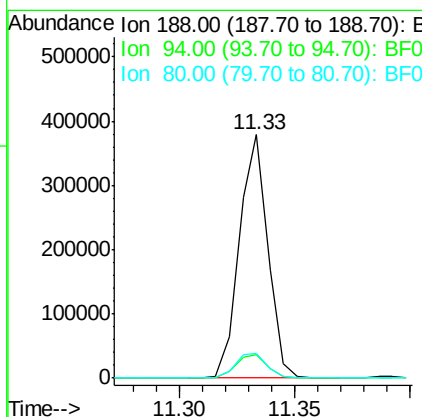
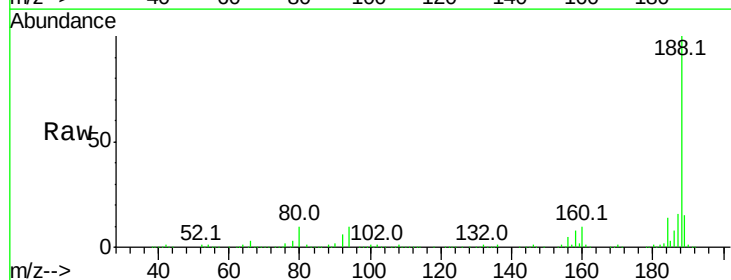
Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.8	119.8
167	12.1	10.6	16.0

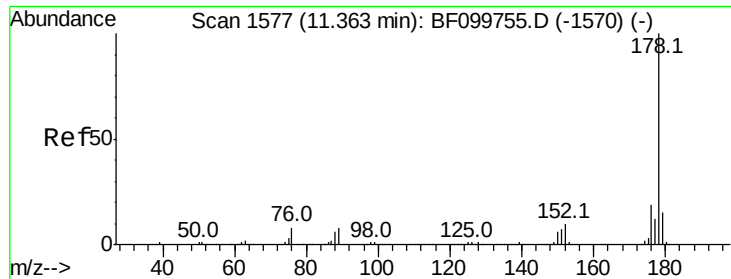


#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

Tgt Ion:188 Resp: 326340

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.5	12.7
80	10.3	9.2	13.8

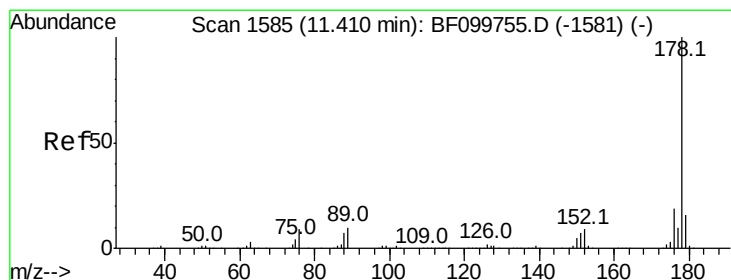
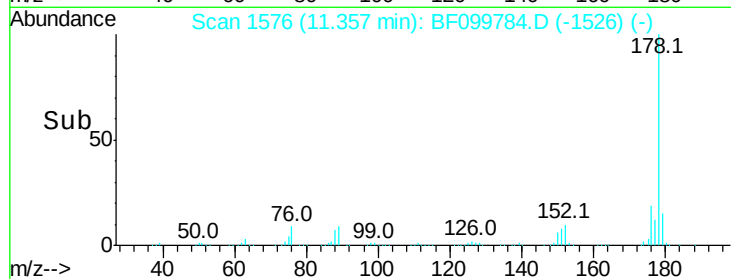
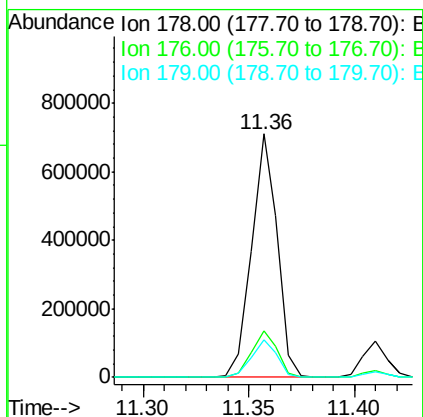
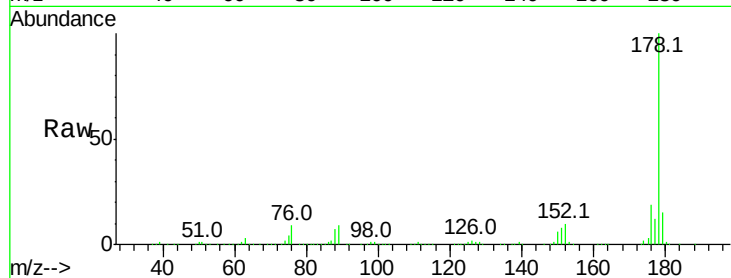




#70
Phenanthrene
Concen: 32.517 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

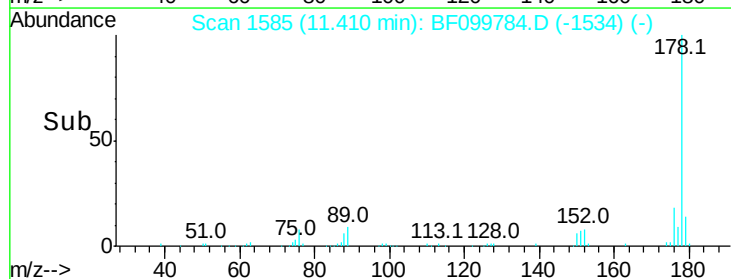
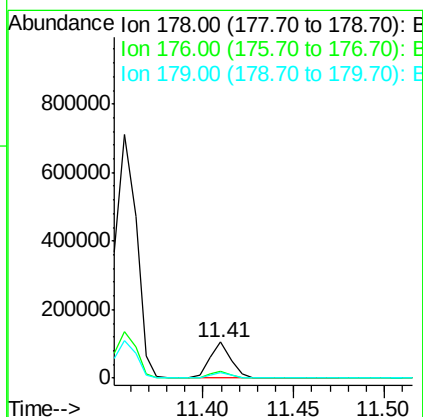
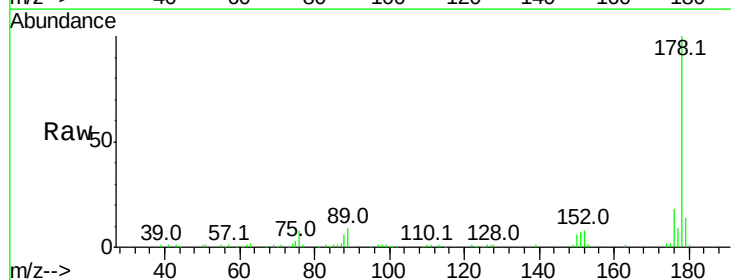
Instrument :
BNA_F
ClientSampled :

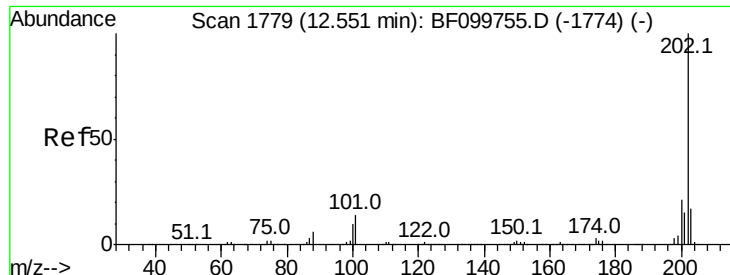
Tot Ion:178 Resp: 598869
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 15.4 13.0 19.6



#71
Anthracene
Concen: 4.591 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

Tgt Ion:178 Resp: 85821
Ion Ratio Lower Upper
178 100
176 17.6 15.4 23.2
179 14.1 12.6 19.0

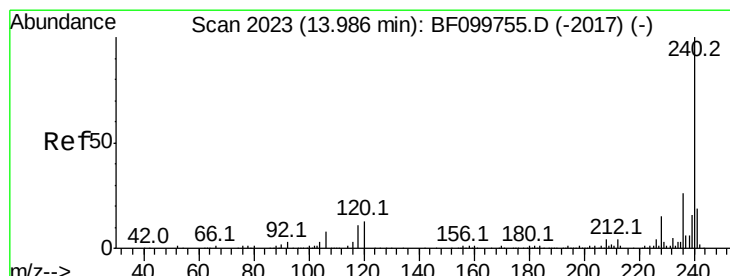
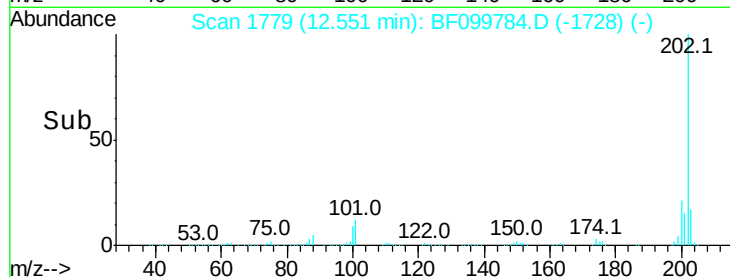
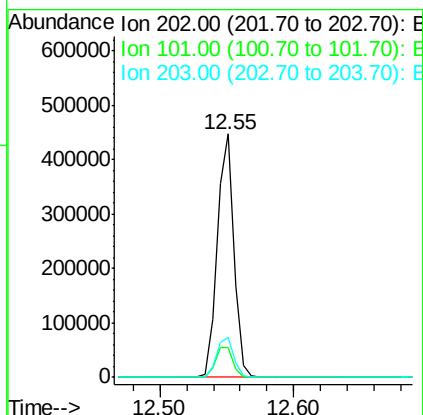
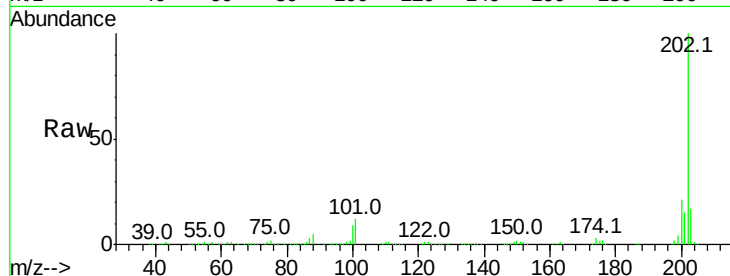




#74
 Fluoranthene
 Concen: 20.579 ng
 RT: 12.55 min Scan# 1779
 Delta R.T. -0.00 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

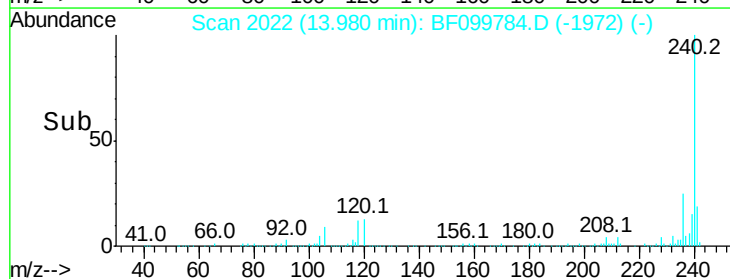
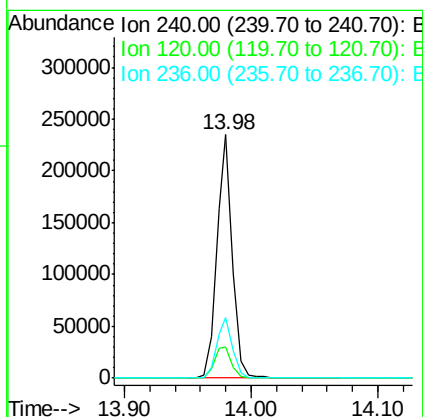
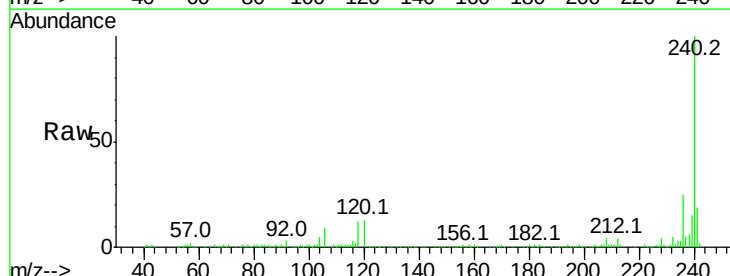
Instrument :
 BNA_F
 ClientSampleId :

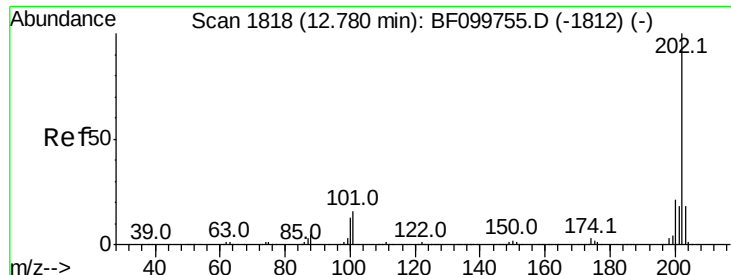
Tot Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	34.1
203	16.7	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.5	14.3
236	24.7	20.7	31.1

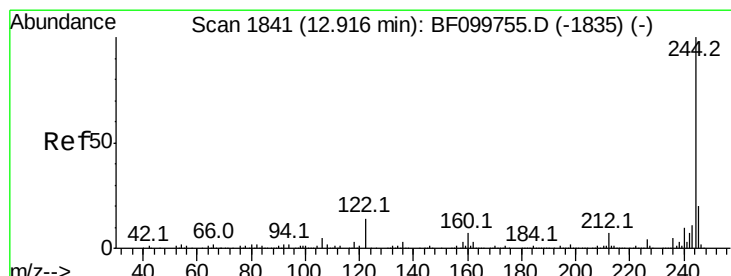
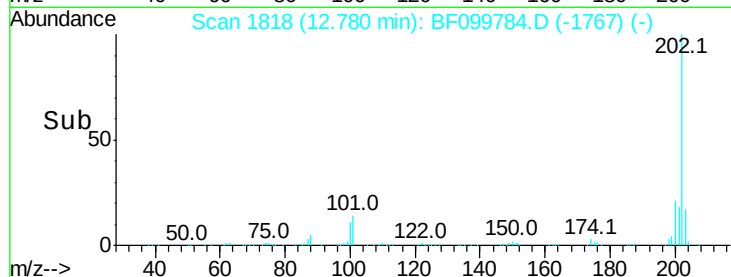
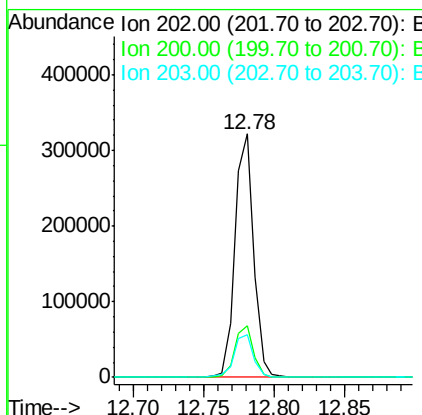
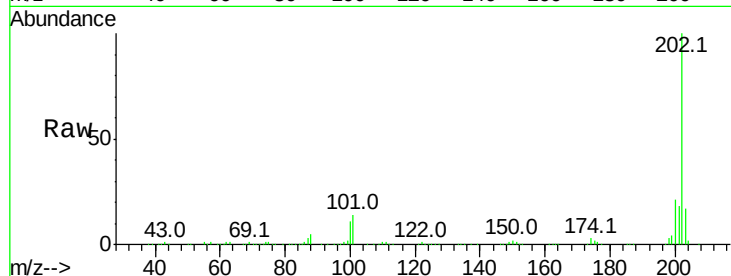




#77
Pvrene
Concen: 19.381 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.00 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

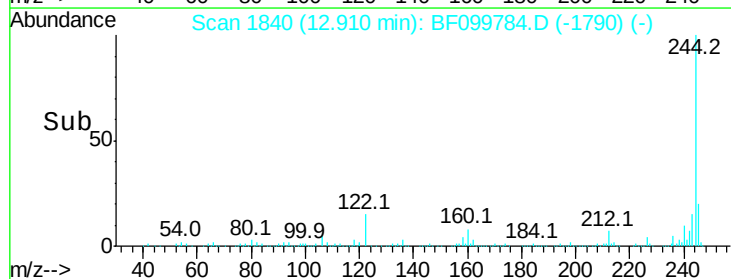
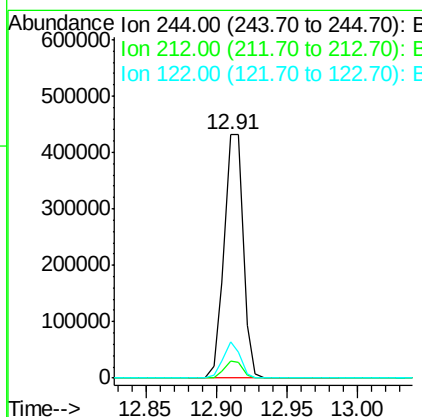
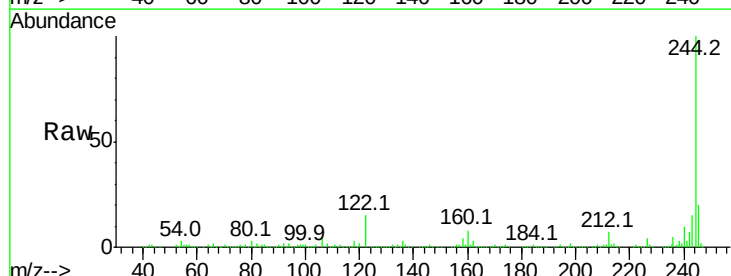
Instrument :
BNA_F
ClientSampleId :

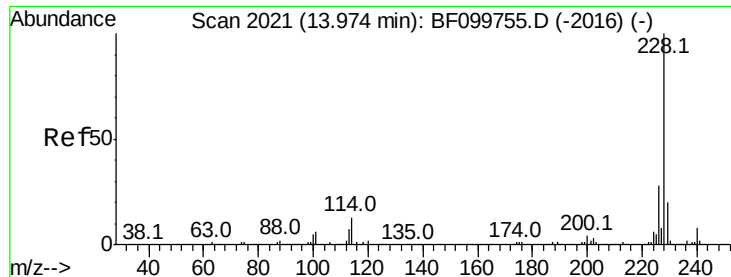
Tot Ion:202 Resp: 295737
Ion Ratio Lower Upper
202 100
200 21.1 17.4 26.2
203 17.4 14.3 21.5



#78
Terphenyl-d14
Concen: 44.524 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.01 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

Tgt Ion:244 Resp: 408854
Ion Ratio Lower Upper
244 100
212 7.2 5.4 8.0
122 14.9 11.0 16.4





#80

Benzo(a)anthracene

Concen: 5.268 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :

BNA_F

ClientSampled :

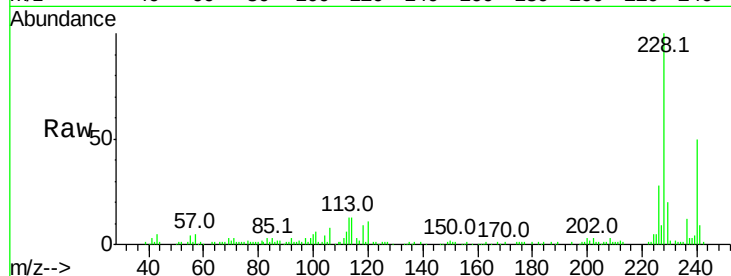
Tot Ion:228 Resp: 67012

Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

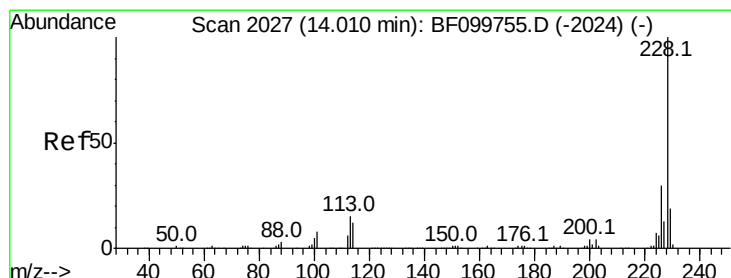
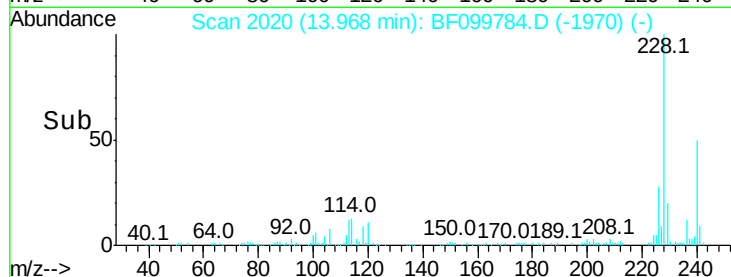
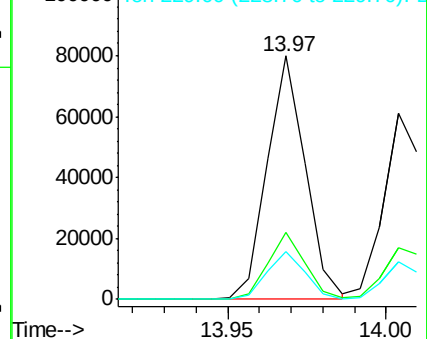
229 19.8 15.8 23.6



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: 4.674 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

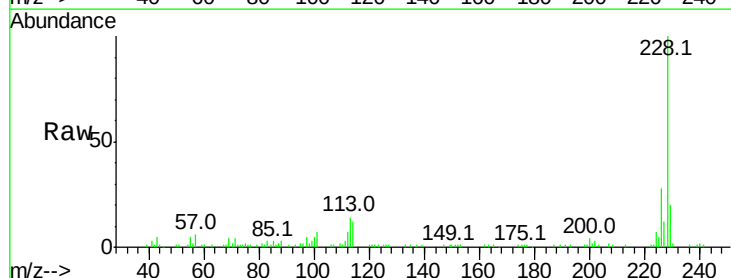
Tgt Ion:228 Resp: 55901

Ion Ratio Lower Upper

228 100

226 28.1 25.0 37.6

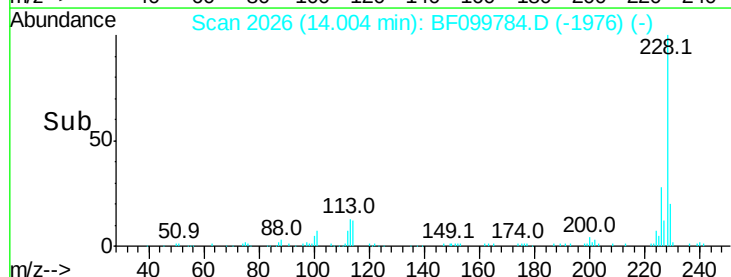
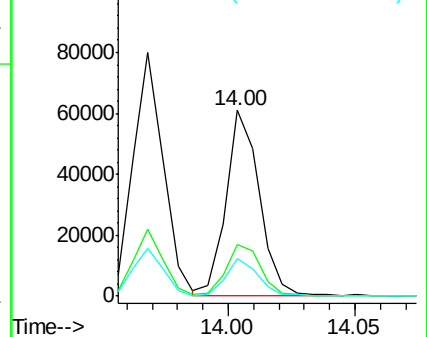
229 20.0 16.2 24.4

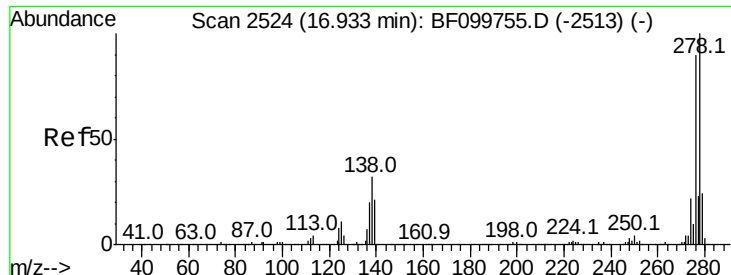


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

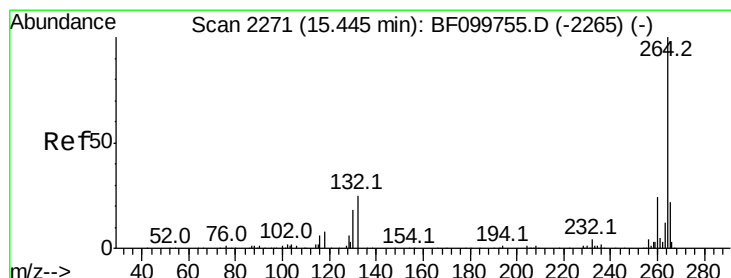
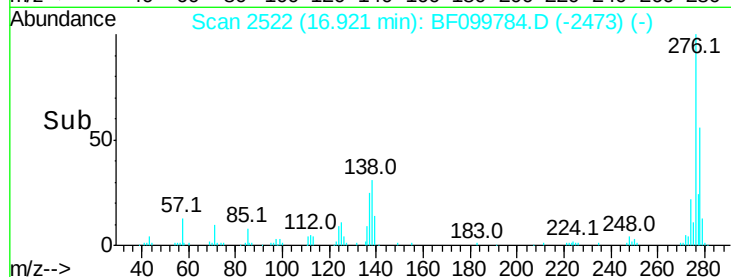
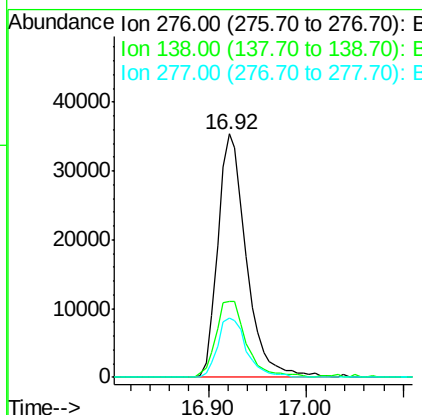
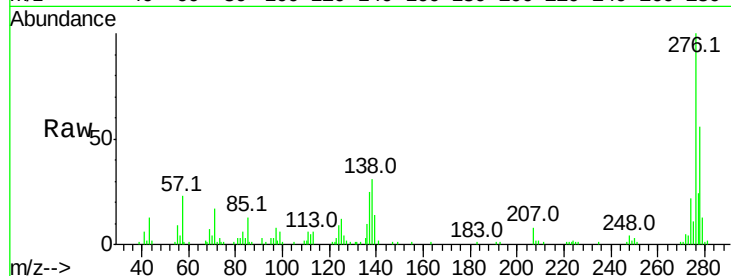




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.522 ng
 RT: 16.92 min Scan# 2522
 Delta R.T. -0.01 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

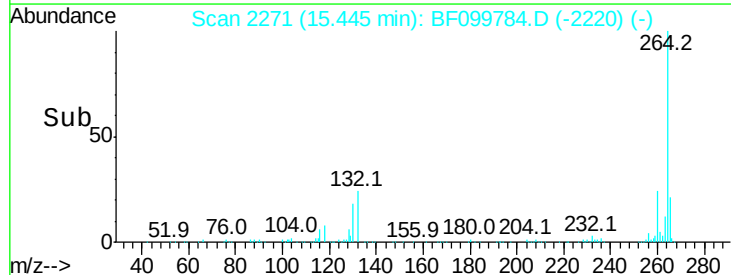
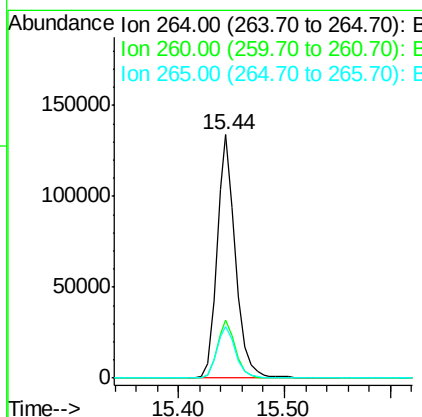
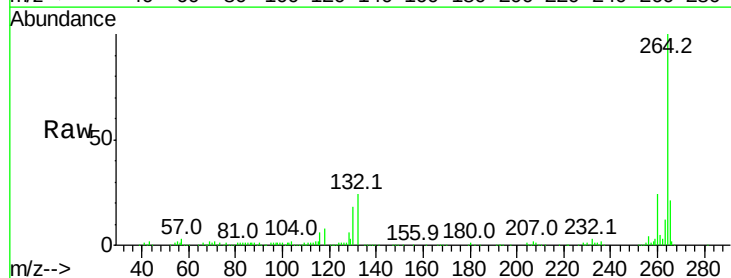
Instrument :
 BNA_F
 ClientSampled :

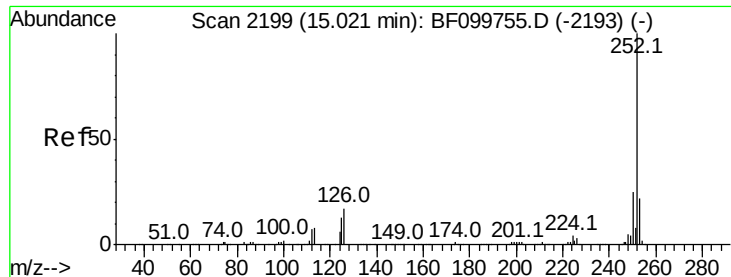
Tot Ion:276 Resp: 71612
 Ion Ratio Lower Upper
 276 100
 138 33.7 25.0 37.6
 277 24.5 20.1 30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: BF099784.D
 Acq: 24 Oct 2017 13:25

Tgt Ion:264 Resp: 163695
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 21.4 17.5 26.3

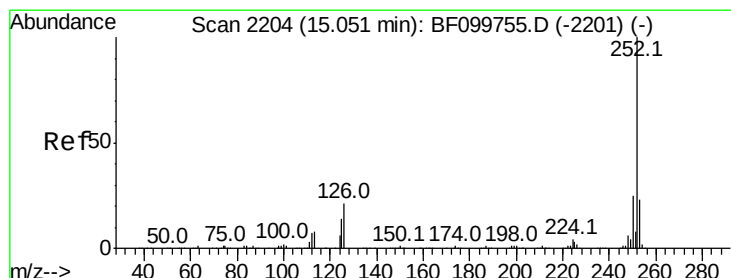
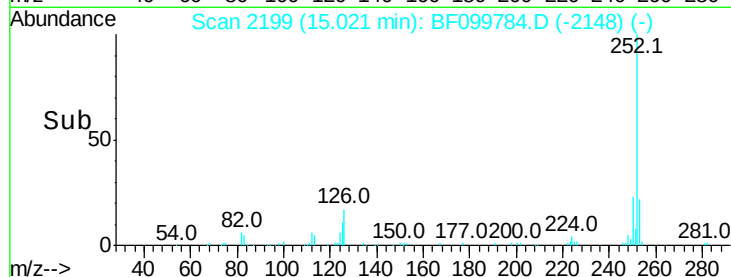
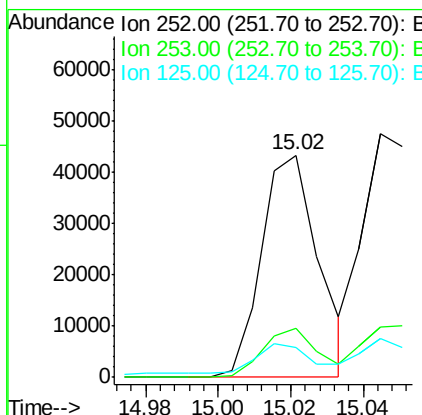
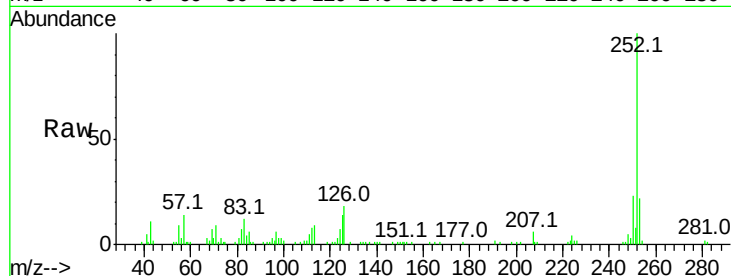




#87
Benzo(b)fluoranthene
Concen: 4.564 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.00 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

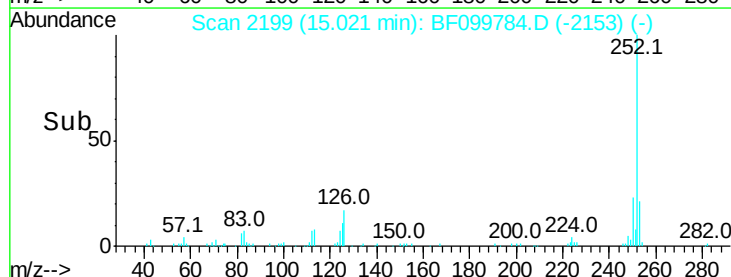
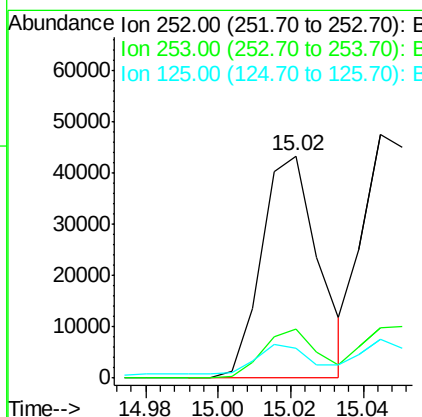
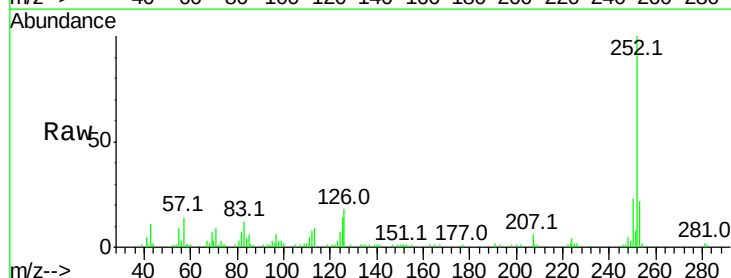
Instrument :
BNA_F
ClientSampleId :

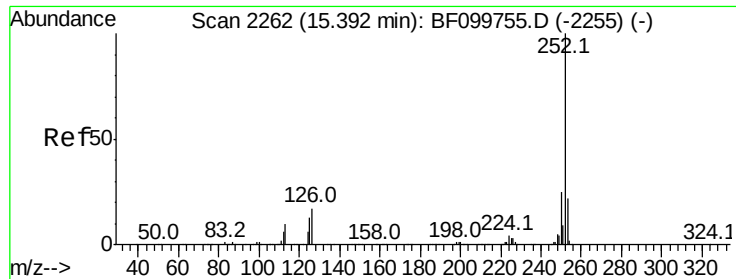
Tot Ion:252 Resp: 47177
Ion Ratio Lower Upper
252 100
253 21.9 17.0 25.6
125 13.6 9.0 13.6#



#88
Benzo(k)fluoranthene
Concen: 4.840 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.03 min
Lab File: BF099784.D
Acq: 24 Oct 2017 13:25

Tgt Ion:252 Resp: 47177
Ion Ratio Lower Upper
252 100
253 21.9 17.9 26.9
125 13.6 10.2 15.2





#89

Benzo(a)pyrene

Concen: 4.885 ng

RT: 15.39 min Scan# 2261

Delta R.T. -0.01 min

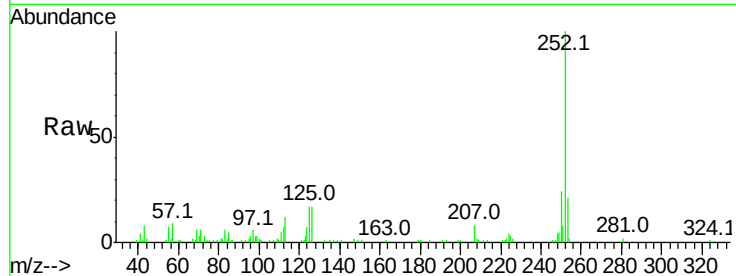
Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 45359

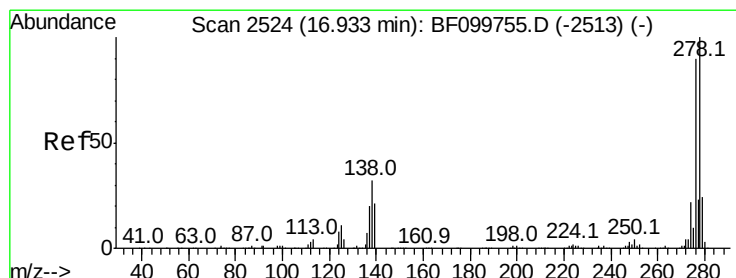
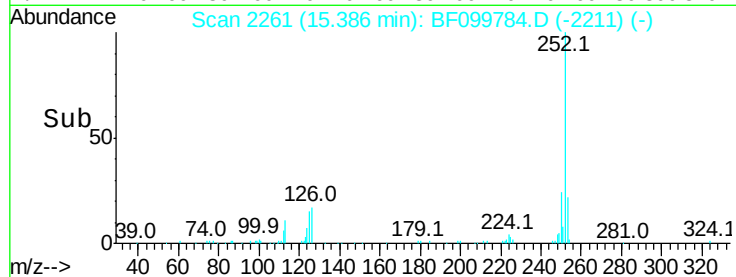
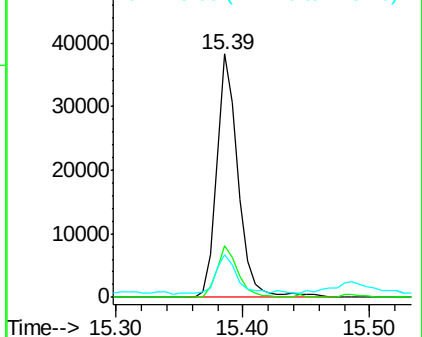
Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7
125	17.5	9.8	14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 5.321 ng

RT: 16.92 min Scan# 2522

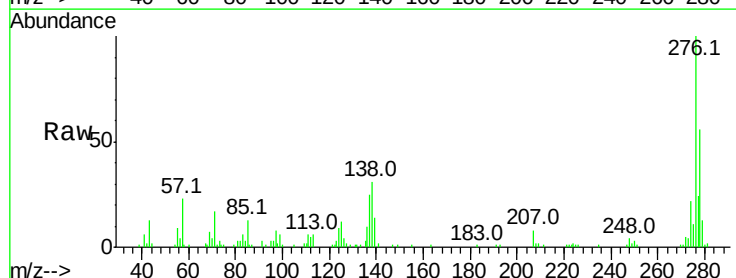
Delta R.T. -0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Tgt Ion:278 Resp: 43903

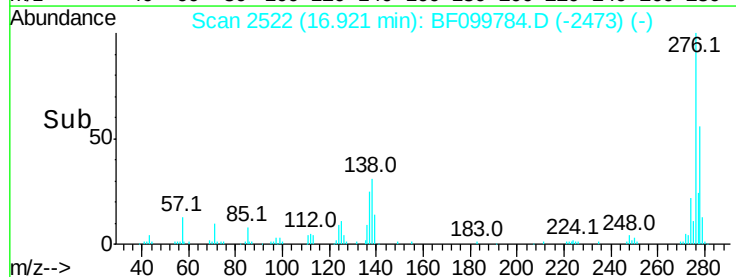
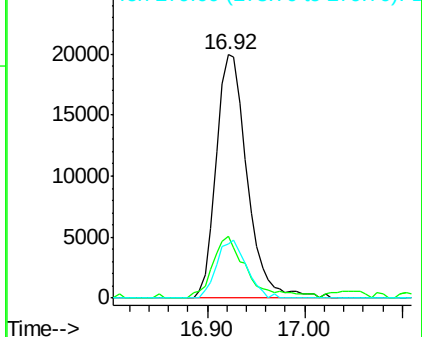
Ion	Ratio	Lower	Upper
278	100		
139	25.7	15.9	23.9
279	22.5	19.0	28.4

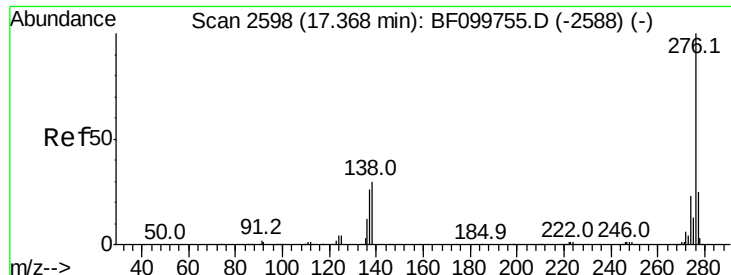


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 4.031 ng

RT: 17.38 min Scan# 2600

Delta R.T. 0.01 min

Lab File: BF099784.D

Acq: 24 Oct 2017 13:25

Instrument :

BNA_F

ClientSampleId :

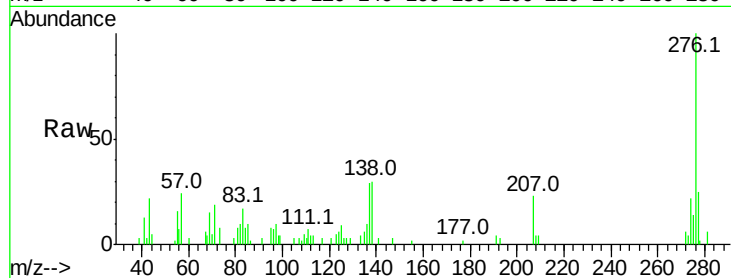
Tot Ion:276 Resp: 32540

Ion Ratio Lower Upper

276 100

277 25.4 17.9 26.9

138 29.6 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

