

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032217\
 Data File : BF093868.D
 Acq On : 23 Mar 2017 8:08
 Operator : SJ/MA
 Sample : I2350-01
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-202-217-227-COMP

Quant Time: Mar 23 08:30:46 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

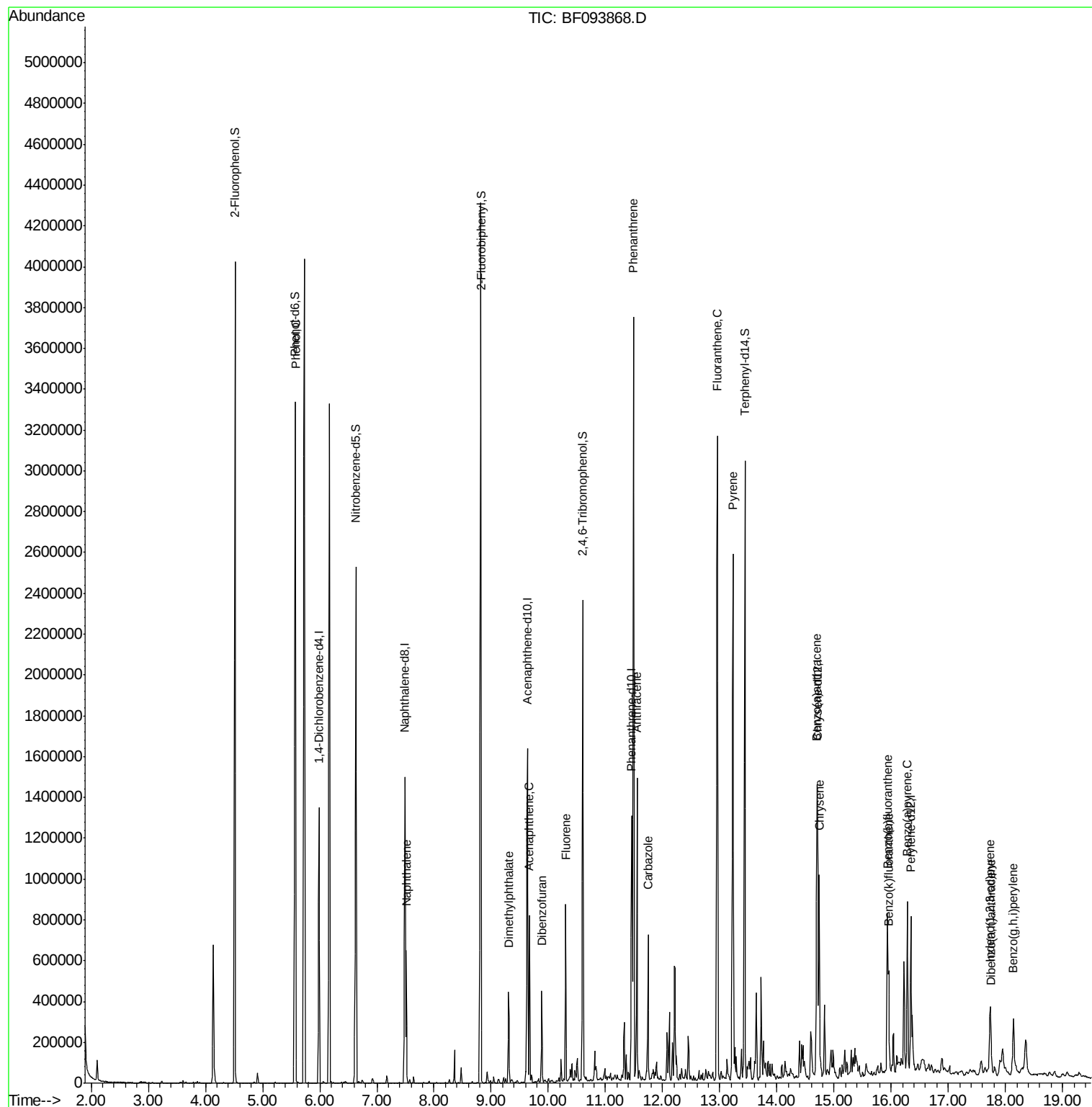
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	202106	20.00	ng	0.00
21) Naphthalene-d8	7.49	136	798719	20.00	ng	0.00
38) Acenaphthene-d10	9.63	164	348427	20.00	ng	0.00
63) Phenanthrene-d10	11.46	188	574082	20.00	ng	0.00
75) Chrysene-d12	14.71	240	357636	20.00	ng	0.00
86) Perylene-d12	16.35	264	313215	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.52	112	1279328	106.91	ng	0.01
7) Phenol-d6	5.57	99	1625855	109.83	ng	0.00
23) Nitrobenzene-d5	6.63	82	1012394	72.34	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	290793	105.62	ng	0.00
44) 2-Fluorobiphenyl	8.82	172	1623562	71.07	ng	0.00
78) Terphenyl-d14	13.44	244	1072032	67.19	ng	0.00
Target Compounds						Qvalue
10) Phenol	5.58	94	67582	4.01	ng	94
31) Naphthalene	7.52	128	296644	7.72	ng	98
49) Dimethylphthalate	9.30	163	181682	7.34	ng	98
51) Acenaphthene	9.67	154	192852	9.04	ng	97
54) Dibenzofuran	9.89	168	192382	6.62	ng	96
57) Fluorene	10.30	166	247858	10.29	ng	100
70) Phenanthrene	11.49	178	1655696	51.85	ng	99
71) Anthracene	11.55	178	570360	17.35	ng	98
72) Carbazole	11.74	167	299644	8.89	ng	98
74) Fluoranthene	12.96	202	1522742	46.57	ng	99
77) Pyrene	13.23	202	1236385	47.64	ng	98
80) Benzo(a)anthracene	14.70	228	463072	22.20	ng	99
82) Chrysene	14.74	228	416591	21.53	ng	97
85) Indeno(1,2,3-cd)pyrene	17.73	276	214513	12.80	ng	95
87) Benzo(b)fluoranthene	15.93	252	461806m	24.05	ng	
88) Benzo(k)fluoranthene	15.96	252	153711m	8.18	ng	
89) Benzo(a)pyrene	16.29	252	364159	20.60	ng	99
90) Dibenzo(a,h)anthracene	17.75	278	47054m	3.14	ng	
91) Benzo(a,h,i)perylene	18.14	276	201212	13.33	ng	98

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032217\
Data File : BF093868.D
Acq On : 23 Mar 2017 8:08
Operator : SJ/MA
Sample : I2350-01
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
VNJ-202-217-227-COMP

Quant Time: Mar 23 08:30:46 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 23 02:02:22 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.99 min Scan# 697

Delta R.T. -0.00 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

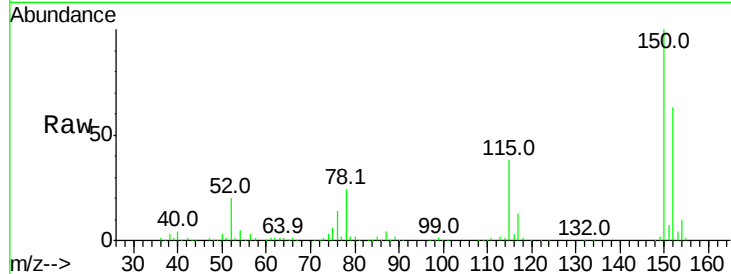
Tot Ion:152 Resp: 202106

Ion Ratio Lower Upper

152 100

150 158.7 126.2 189.2

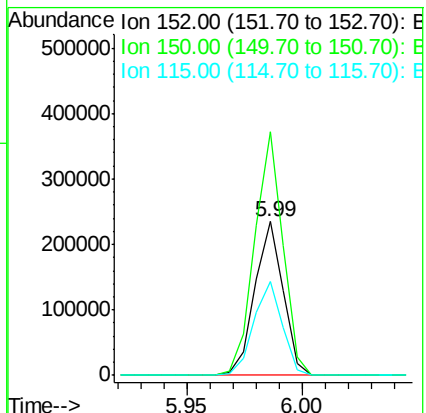
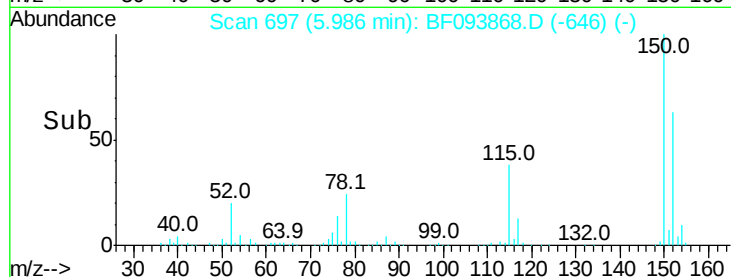
115 61.0 52.2 78.2



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: 106.91 ng

RT: 4.52 min Scan# 447

Delta R.T. 0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

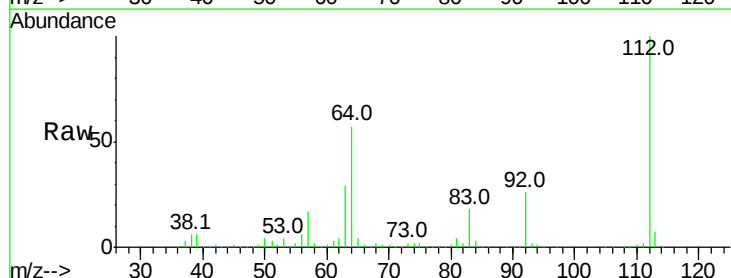
Tgt Ion:112 Resp: 1279328

Ion Ratio Lower Upper

112 100

64 57.4 46.0 69.0

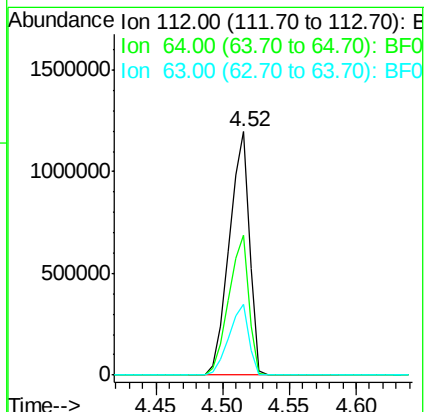
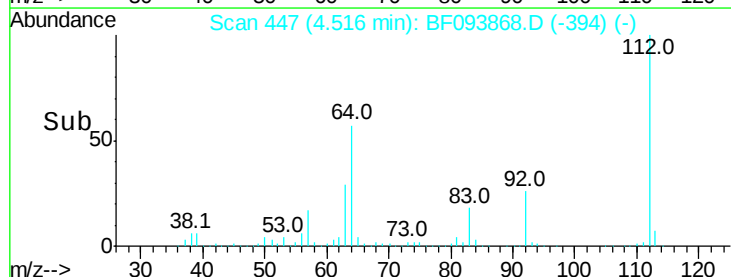
63 28.9 23.4 35.0

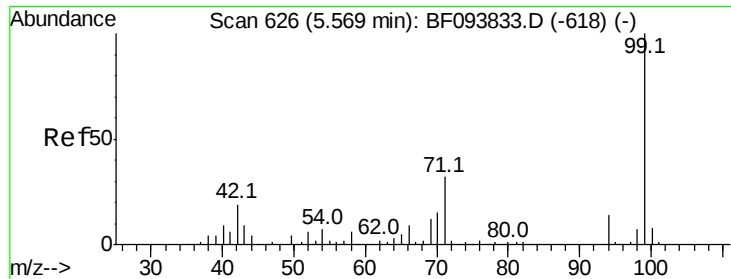


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 109.83 ng

RT: 5.57 min Scan# 626

Delta R.T. -0.00 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

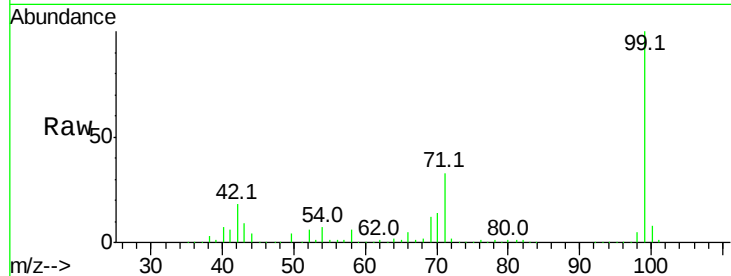
Tot Ion: 99 Resp: 1625855

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

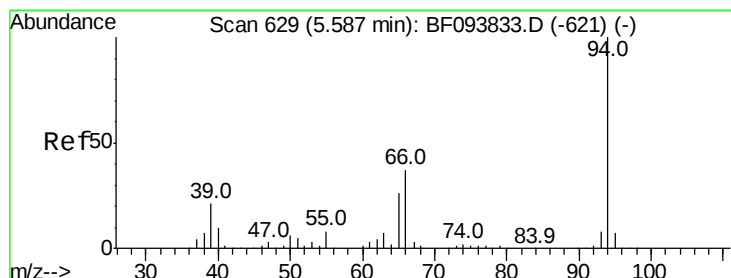
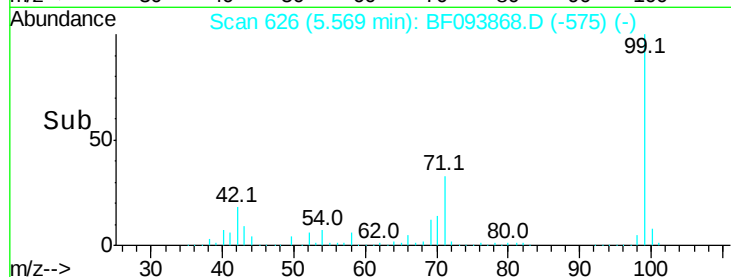
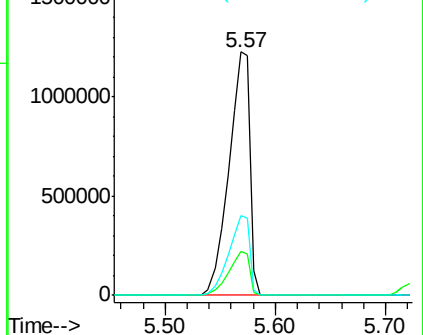
71 32.9 24.5 36.7



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



#10

Phenol

Concen: 4.01 ng

RT: 5.58 min Scan# 628

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

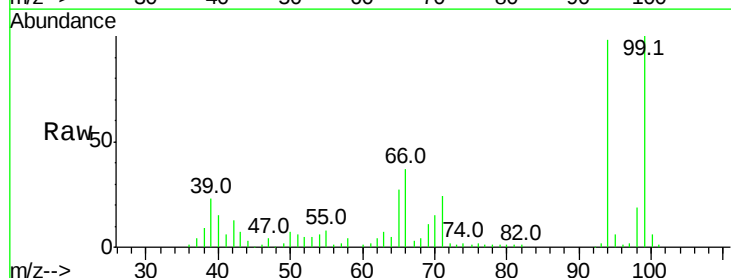
Tgt Ion: 94 Resp: 67582

Ion Ratio Lower Upper

94 100

65 28.1 9.9 49.9

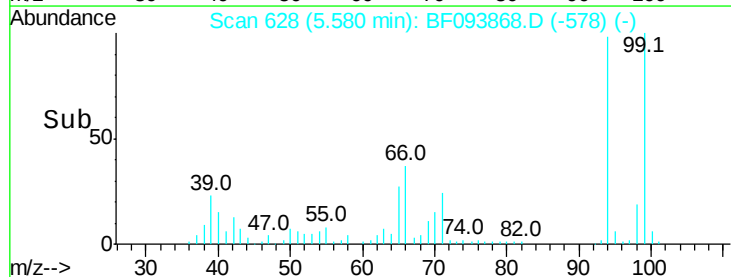
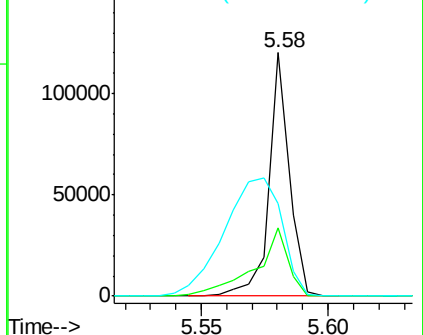
66 38.1 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.49 min Scan# 953

Delta R.T. -0.00 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

Tot Ion:136 Resp: 798719

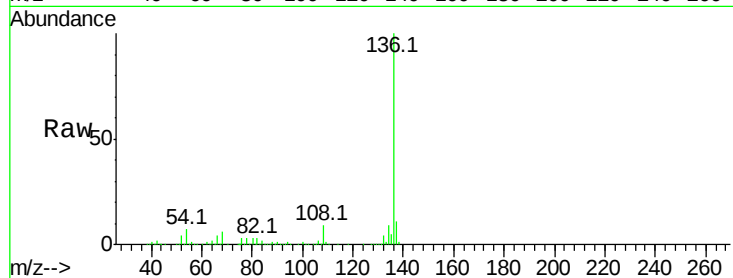
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.1 4.9 7.3

68 5.9 4.1 6.1

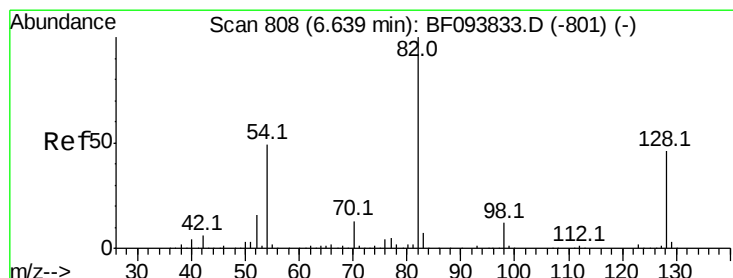
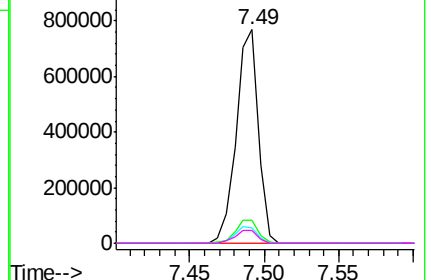
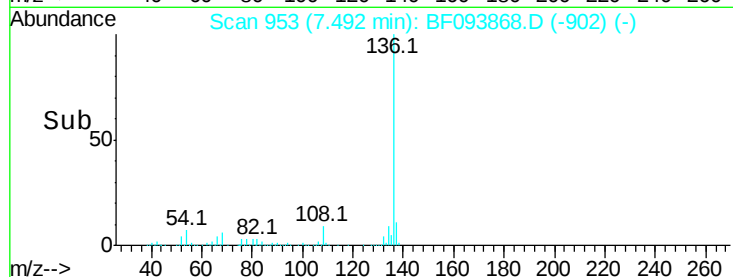


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 72.34 ng

RT: 6.63 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

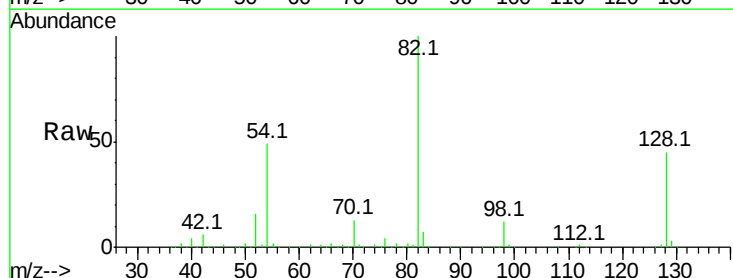
Tgt Ion: 82 Resp: 1012394

Ion Ratio Lower Upper

82 100

128 45.5 34.0 51.0

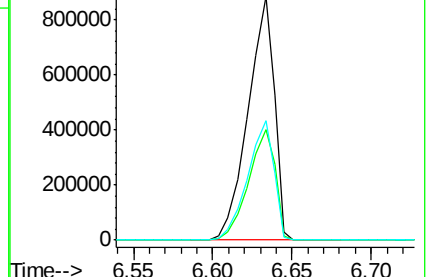
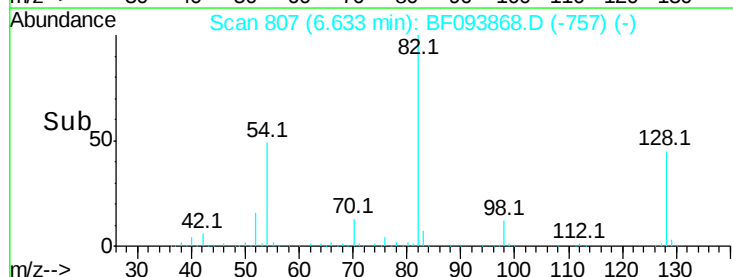
54 49.1 42.2 63.2

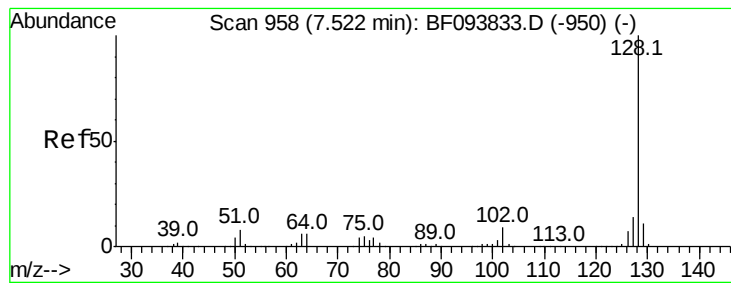


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 7.72 ng

RT: 7.52 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

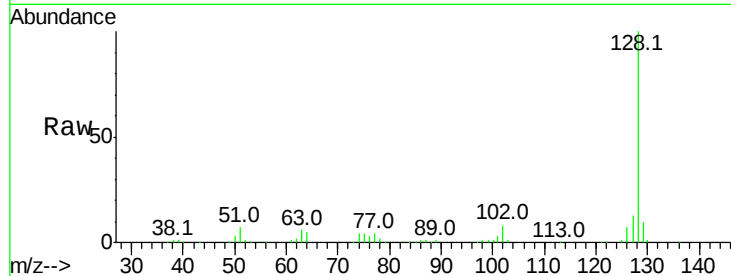
Tot Ion:128 Resp: 296644

Ion Ratio Lower Upper

128 100

129 10.3 9.0 13.6

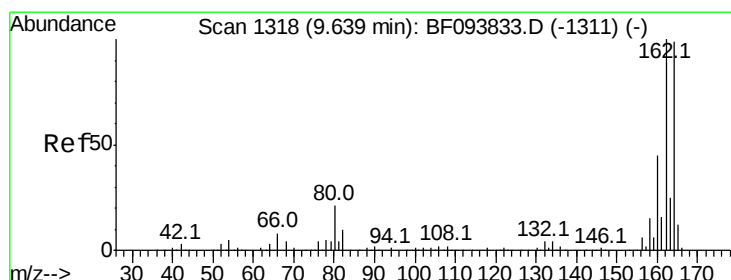
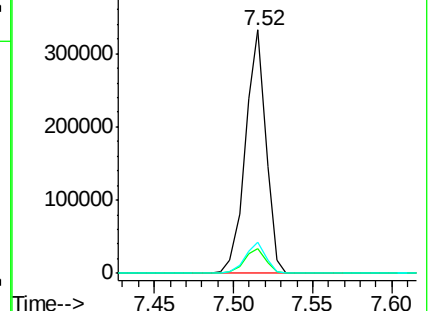
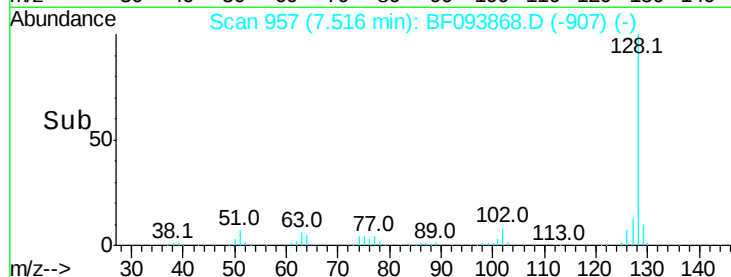
127 12.9 10.8 16.2



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

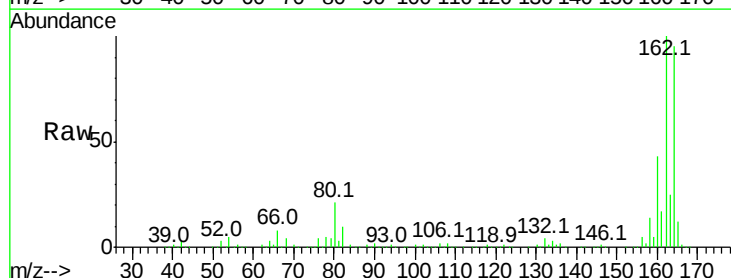
Tgt Ion:164 Resp: 348427

Ion Ratio Lower Upper

164 100

162 105.7 82.6 123.8

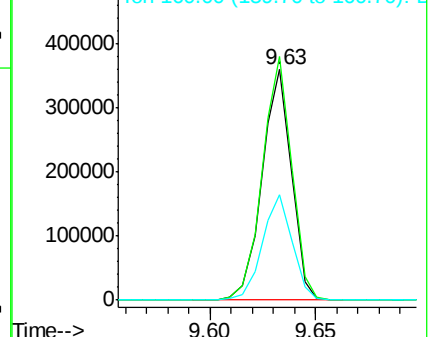
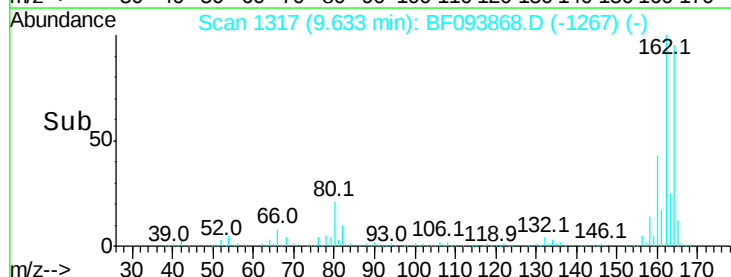
160 45.7 36.2 54.2

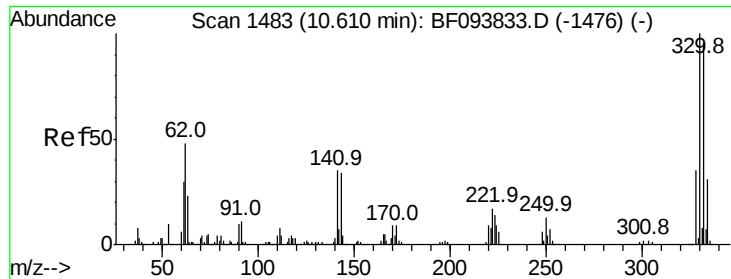


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

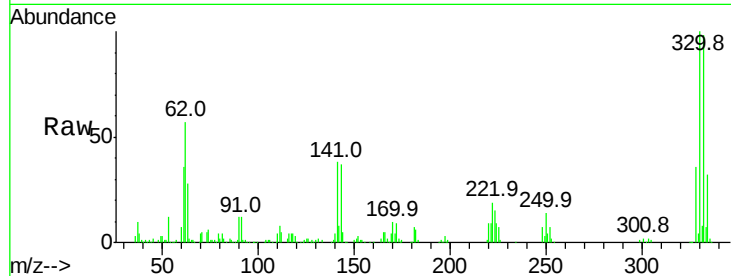




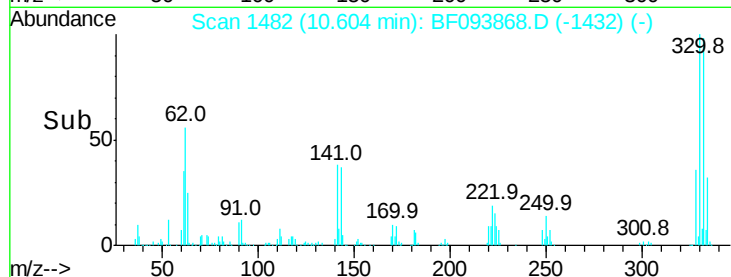
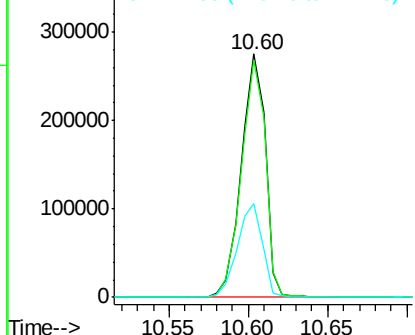
#41
 2,4,6-Tribromophenol
 Concen: 105.62 ng
 RT: 10.60 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF093868.D
 Acq: 23 Mar 2017 8:08

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-202-217-227-COMP

Tot Ion:330 Resp: 290793
 Ion Ratio Lower Upper
 330 100
 332 97.6 76.6 115.0
 141 40.2 31.4 47.2

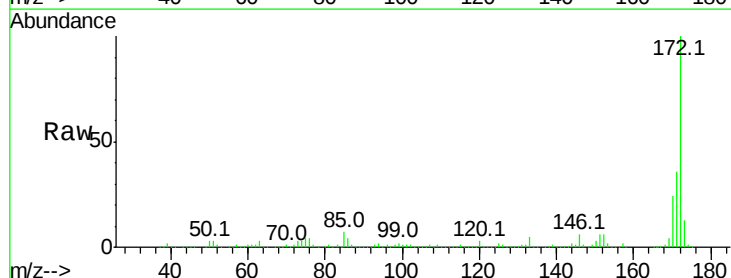


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

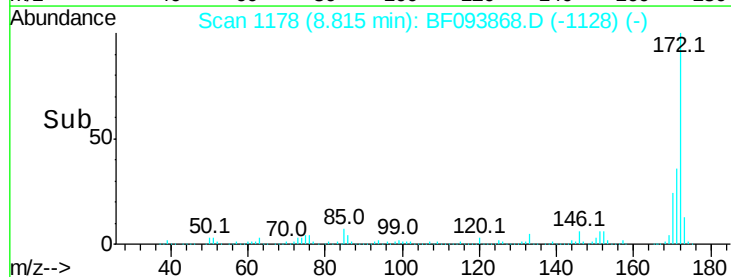
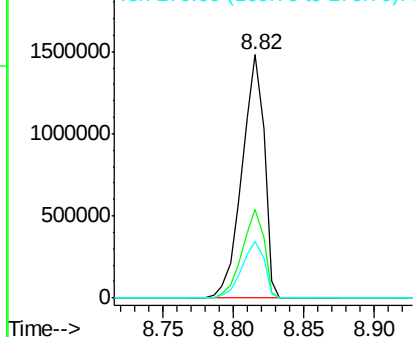


#44
 2-Fluorobiphenyl
 Concen: 71.07 ng
 RT: 8.82 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: BF093868.D
 Acq: 23 Mar 2017 8:08

Tgt Ion:172 Resp: 1623562
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 23.6 19.8 29.8



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

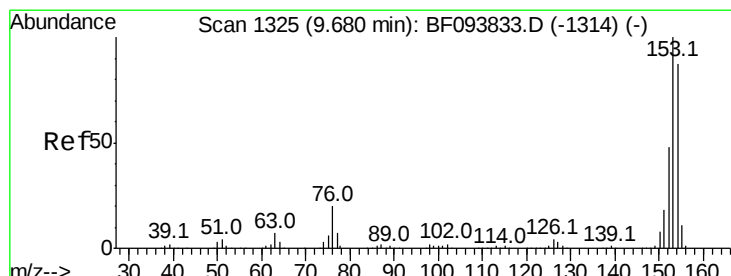
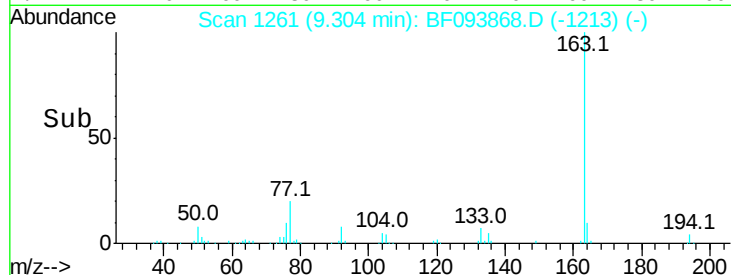
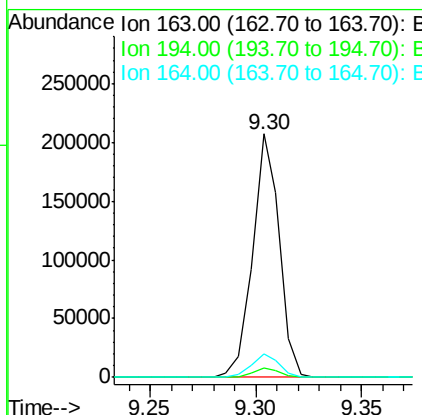
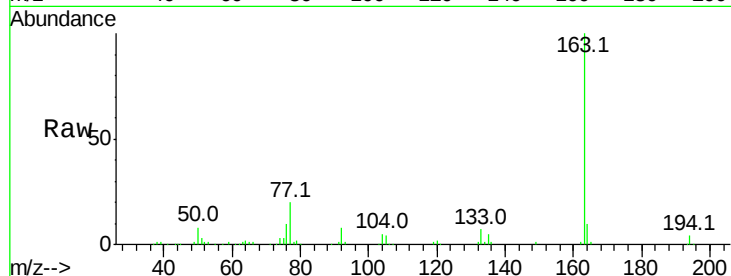




#49
Dimethylphthalate
Concen: 7.34 ng
RT: 9.30 min Scan# 1261
Delta R.T. -0.02 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

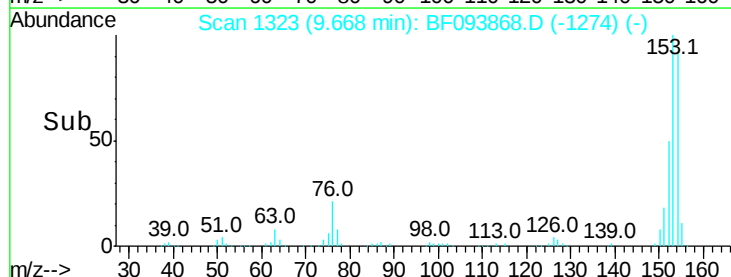
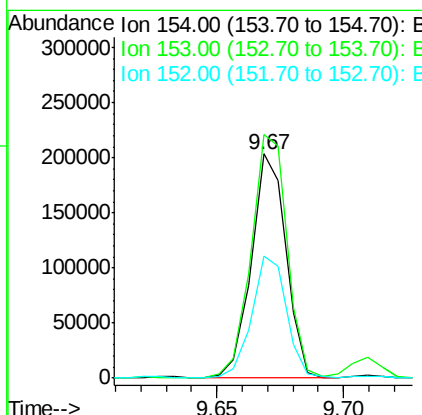
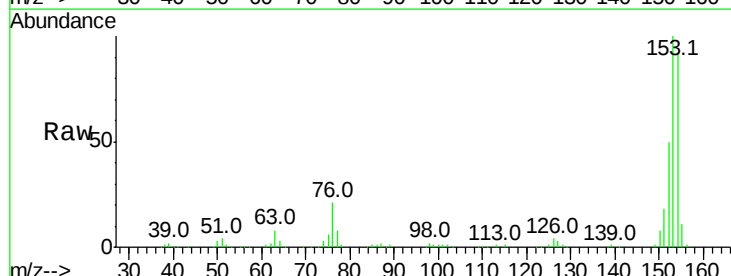
Instrument :
BNA_F
ClientSampleId :
VNJ-202-217-227-COMP

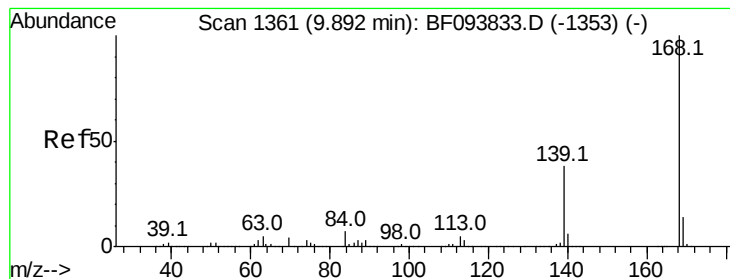
Tot Ion:163 Resp: 181682
Ion Ratio Lower Upper
163 100
194 3.6 2.6 4.0
164 9.6 8.4 12.6



#51
Acenaphthene
Concen: 9.04 ng
RT: 9.67 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

Tgt Ion:154 Resp: 192852
Ion Ratio Lower Upper
154 100
153 108.8 90.5 135.7
152 54.4 43.6 65.4





#54

Dibenzofuran

Concen: 6.62 ng

RT: 9.89 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

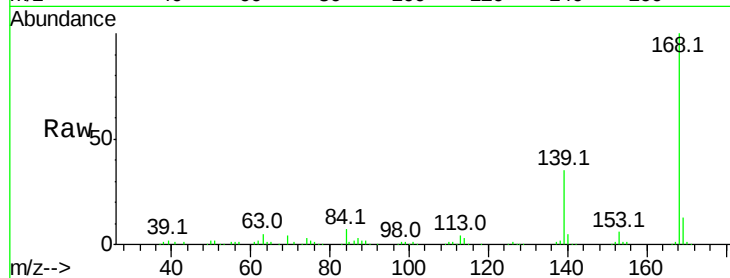
Tot Ion:168 Resp: 192382

Ion Ratio Lower Upper

168 100

139 35.3 30.6 45.8

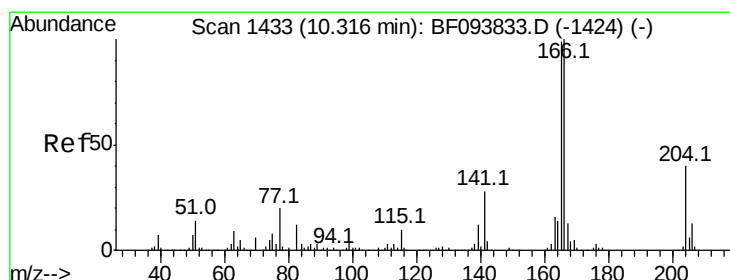
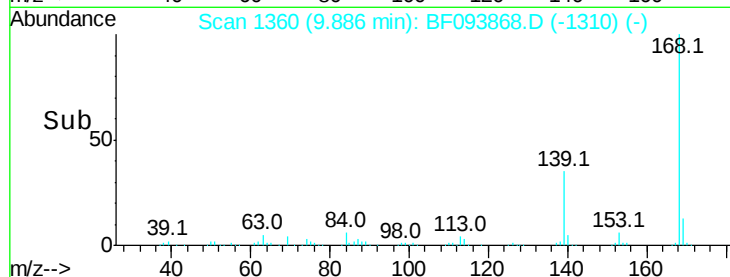
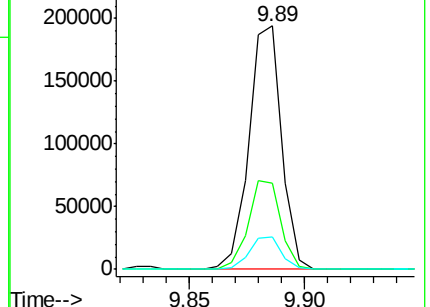
169 13.2 10.8 16.2



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



#57

Fluorene

Concen: 10.29 ng

RT: 10.30 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

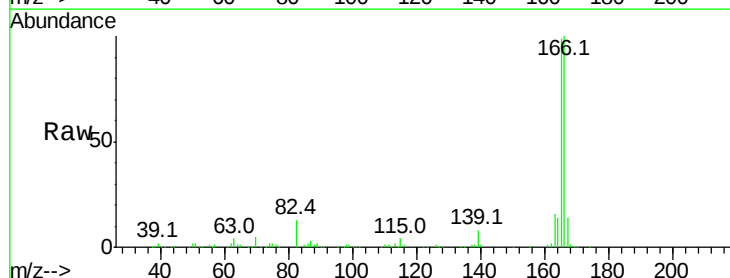
Tgt Ion:166 Resp: 247858

Ion Ratio Lower Upper

166 100

165 98.8 78.8 118.2

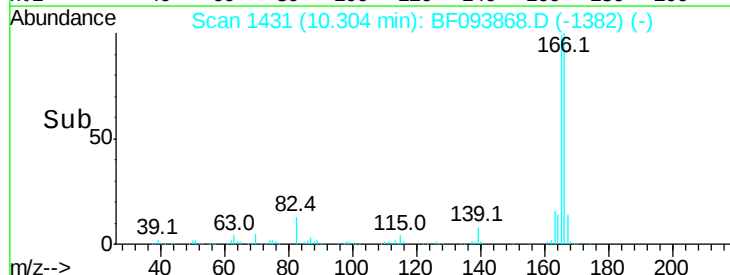
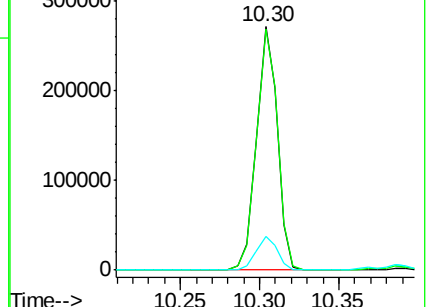
167 13.7 10.6 16.0

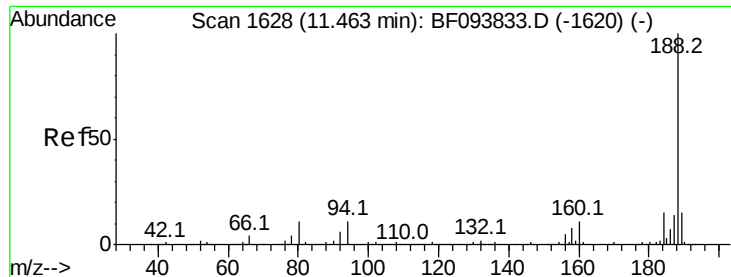


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

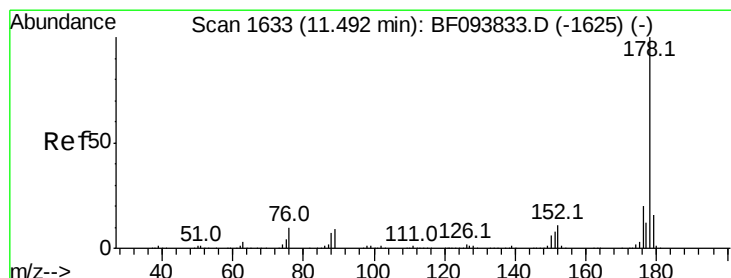
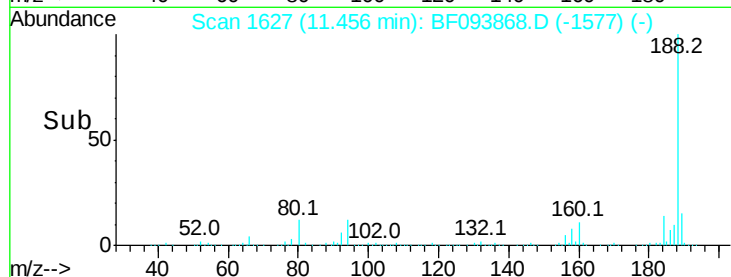
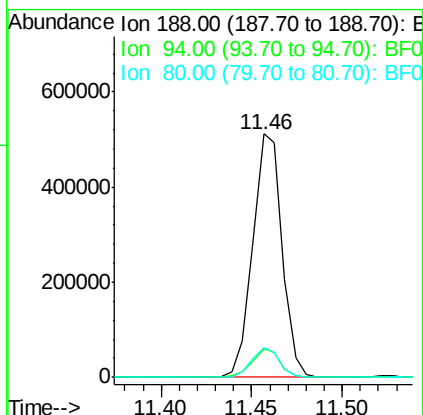
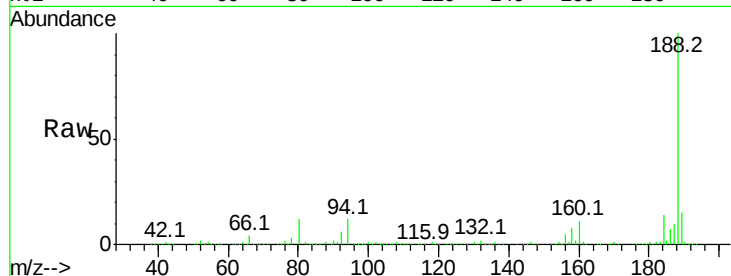




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.46 min Scan# 1627
Delta R.T. -0.01 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

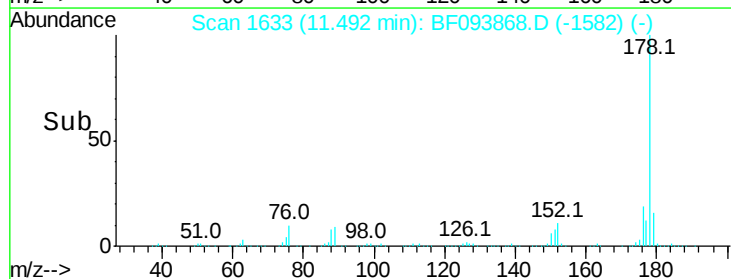
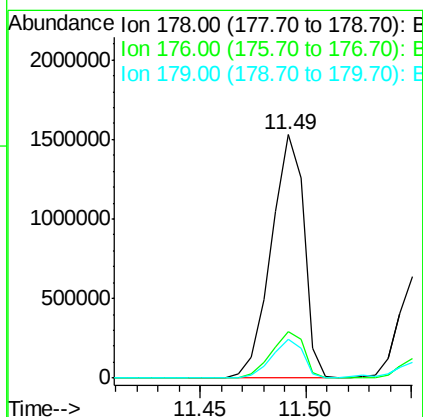
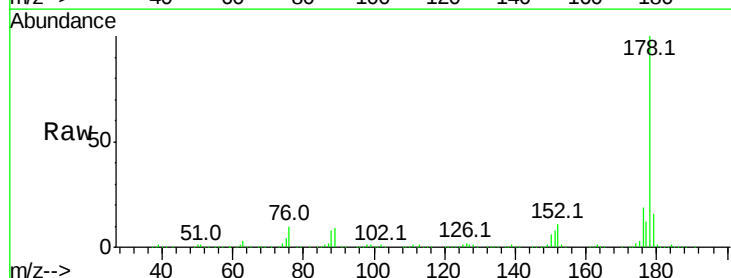
Instrument :
BNA_F
ClientSampleId :
VNJ-202-217-227-COMP

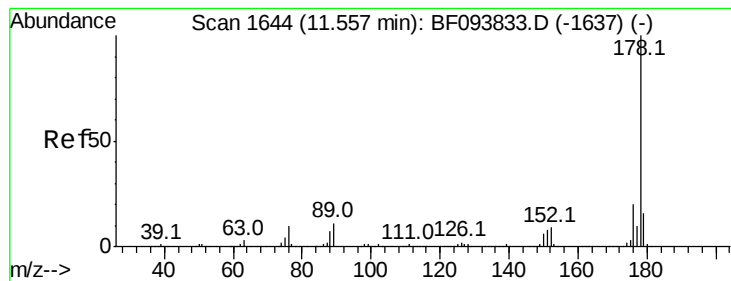
Tot Ion:188 Resp: 574082
Ion Ratio Lower Upper
188 100
94 11.8 9.4 14.2
80 12.2 10.2 15.2



#70
Phenanthrene
Concen: 51.85 ng
RT: 11.49 min Scan# 1633
Delta R.T. -0.00 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

Tgt Ion:178 Resp: 1655696
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.4
179 15.7 12.6 19.0





#71

Anthracene

Concen: 17.35 ng

RT: 11.55 min Scan# 1643

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

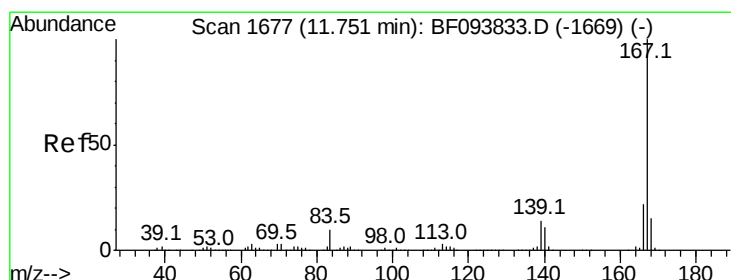
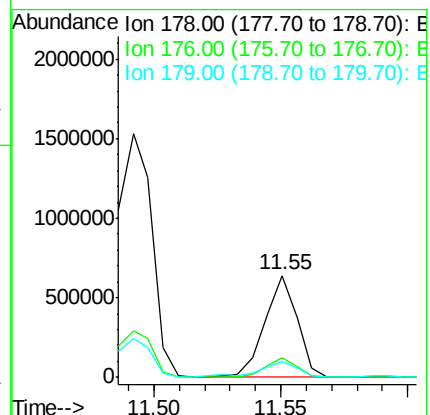
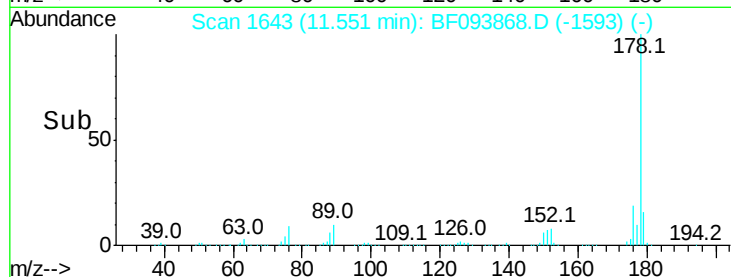
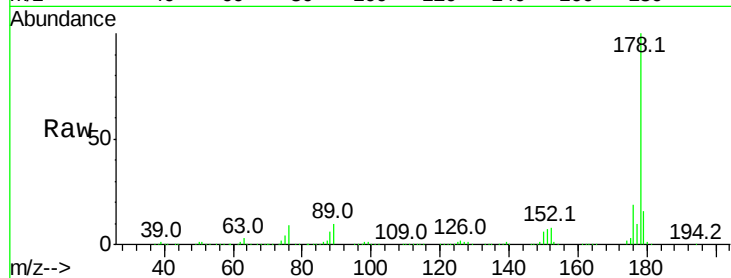
Tot Ion:178 Resp: 570360

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

179 15.5 12.7 19.1



#72

Carbazole

Concen: 8.89 ng

RT: 11.74 min Scan# 1676

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

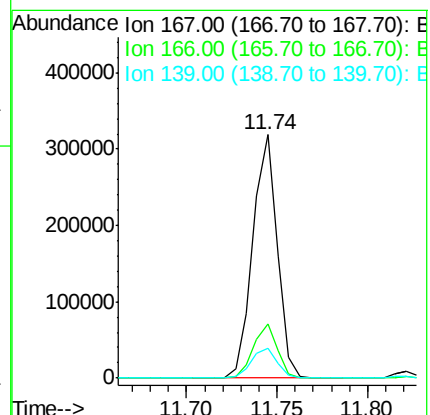
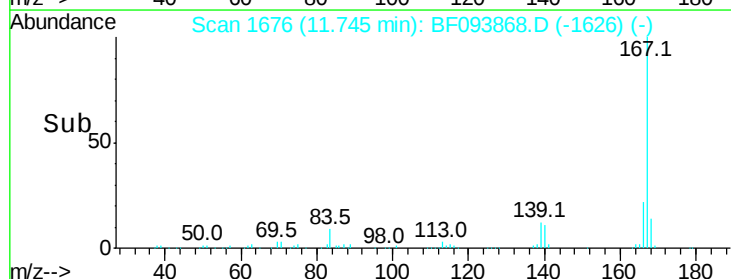
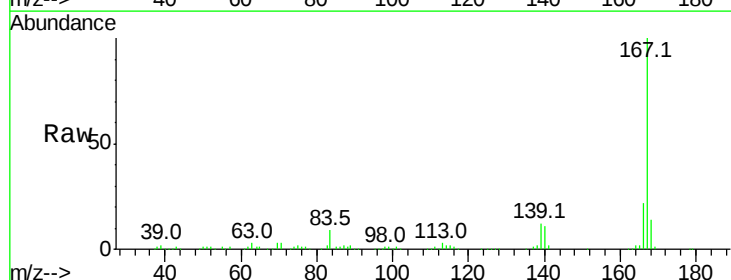
Tgt Ion:167 Resp: 299644

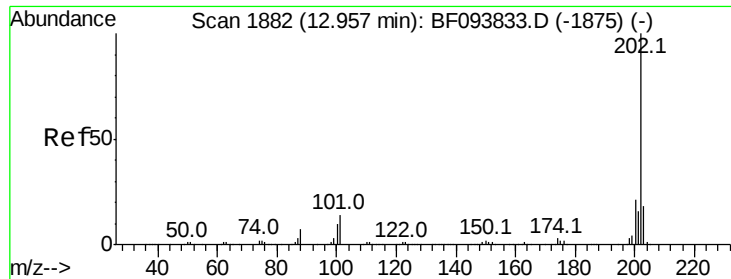
Ion Ratio Lower Upper

167 100

166 22.5 18.1 27.1

139 12.5 11.7 17.5





#74

Fluoranthene

Concen: 46.57 ng

RT: 12.96 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

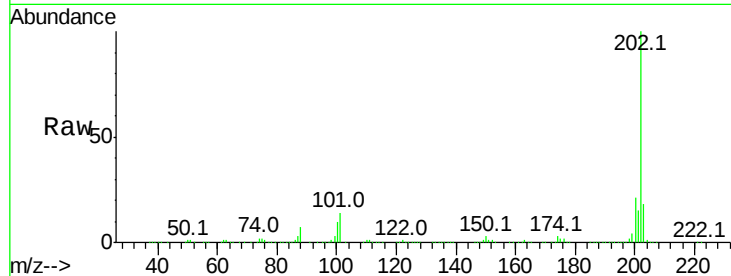
BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

Tot Ion:202 Resp: 1522742

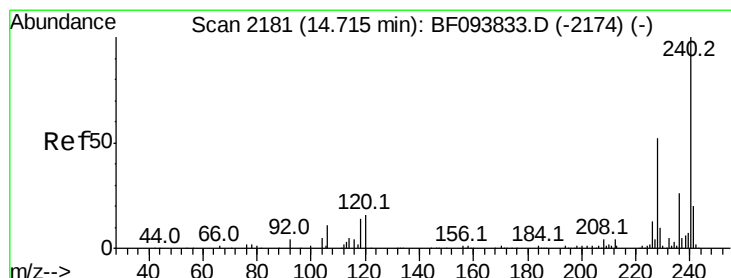
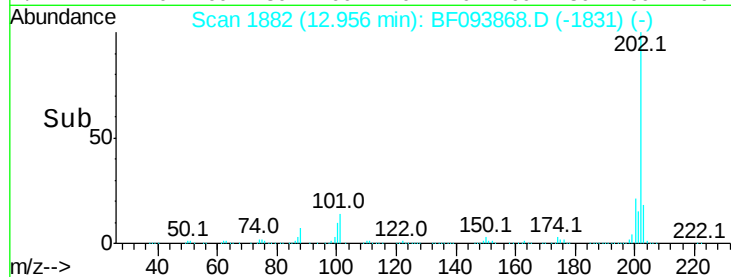
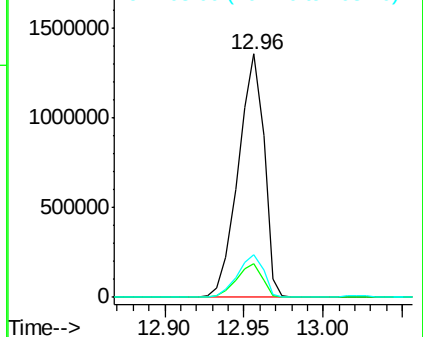
Ion	Ratio	Lower	Upper
202	100		
101	14.1	0.0	33.2
203	17.8	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.71 min Scan# 2180

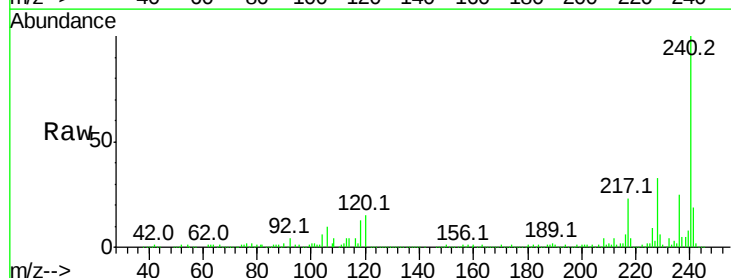
Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Tgt Ion:240 Resp: 357636

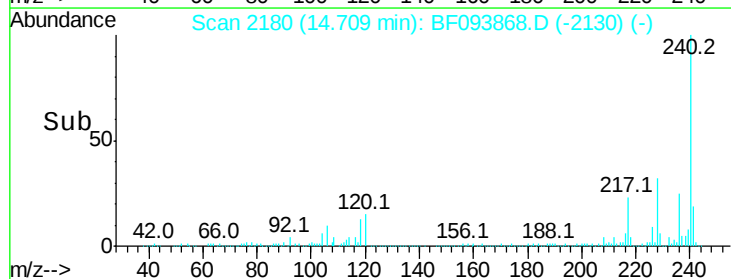
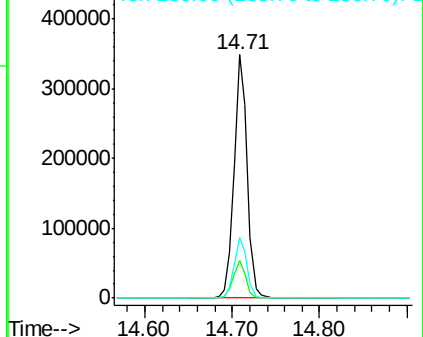
Ion	Ratio	Lower	Upper
240	100		
120	15.3	5.8	8.8#
236	24.8	20.5	30.7

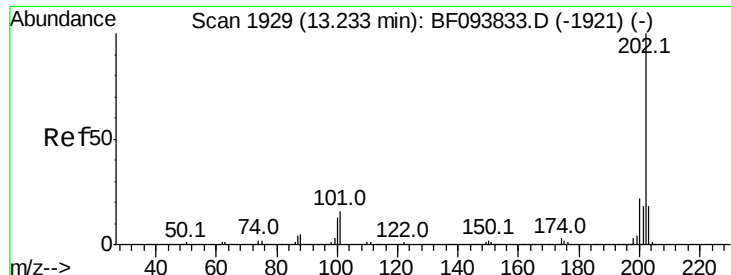


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 47.64 ng

RT: 13.23 min Scan# 1929

Delta R.T. -0.00 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

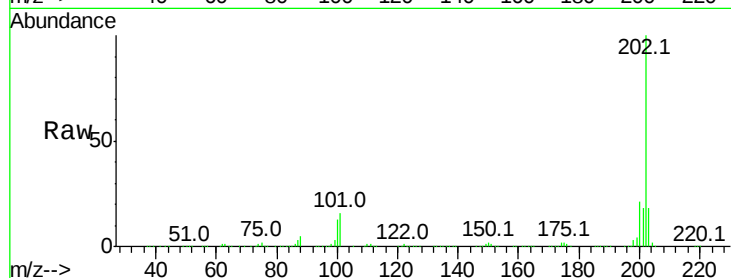
BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

Tot Ion:202 Resp: 1236385

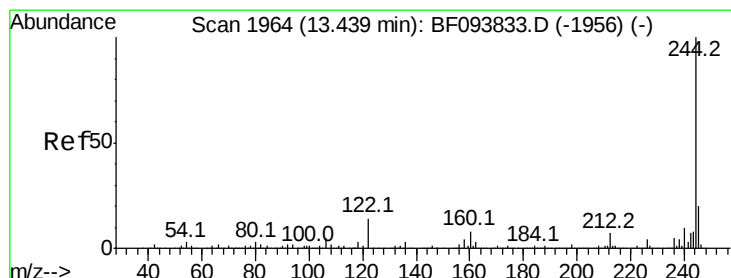
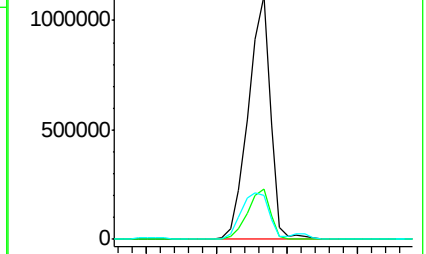
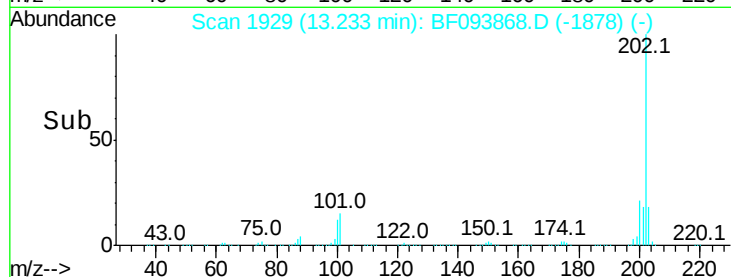
Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.6	26.4
203	18.3	14.4	21.6



Abundance Ion 202.00 (201.70 to 202.70): E

1500000 Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 67.19 ng

RT: 13.44 min Scan# 1964

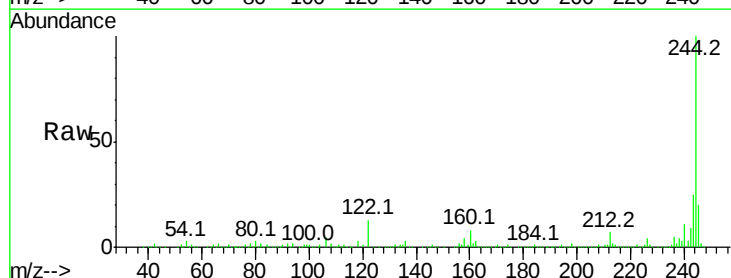
Delta R.T. -0.00 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Tgt Ion:244 Resp: 1072032

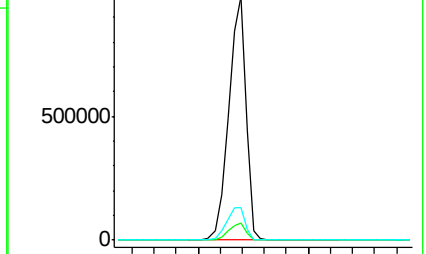
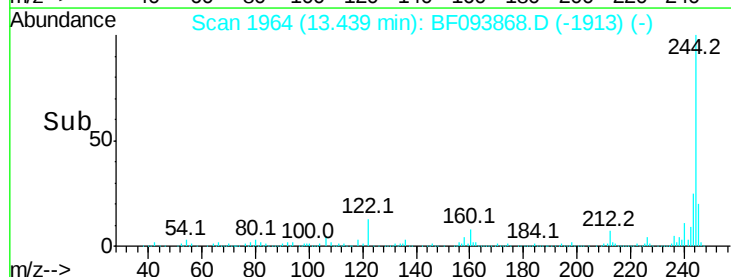
Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	13.3	10.3	15.5

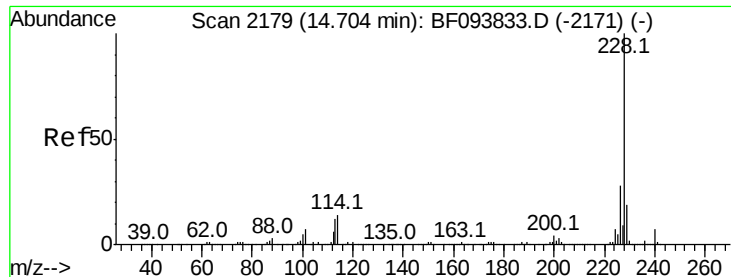


Abundance Ion 244.00 (243.70 to 244.70): E

1000000 Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

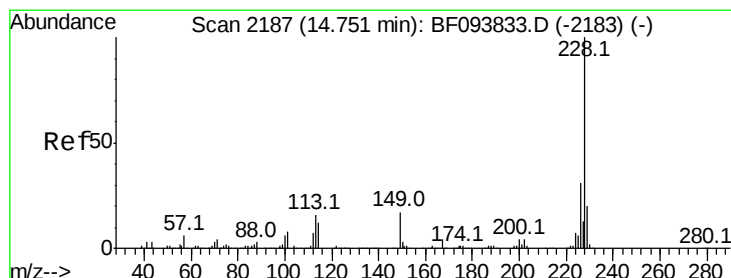
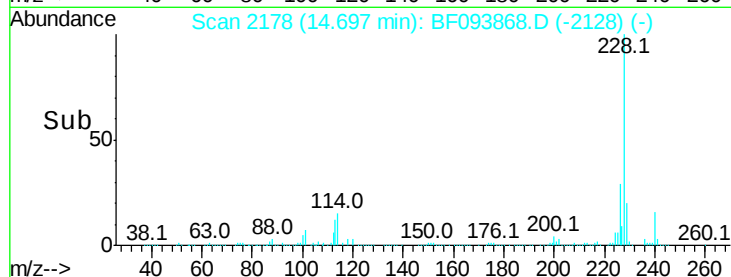
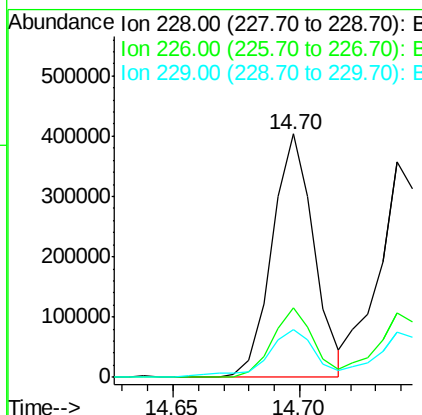
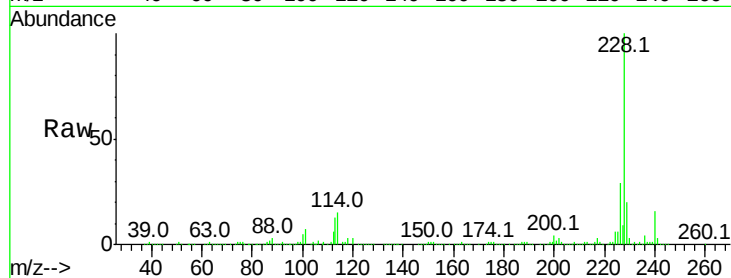




#80
Benzo(a)anthracene
Concen: 22.20 ng
RT: 14.70 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

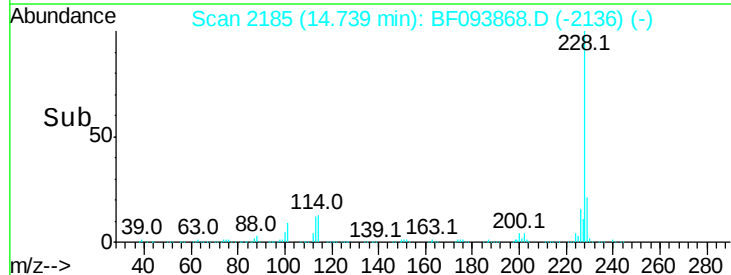
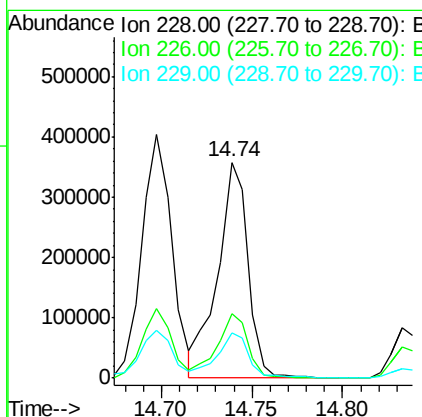
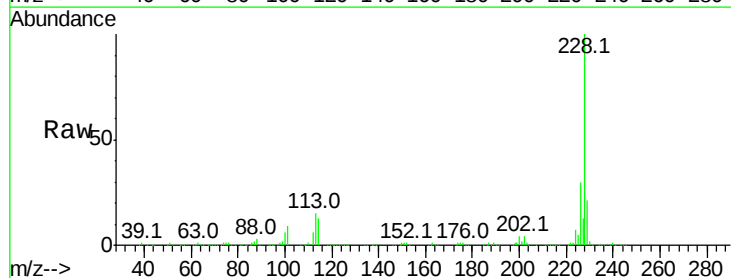
Instrument :
BNA_F
ClientSampleId :
VNJ-202-217-227-COMP

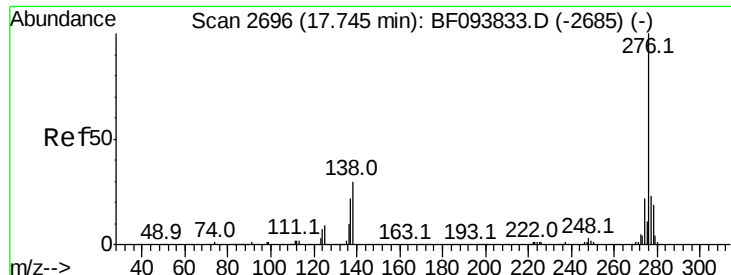
Tot Ion:228 Resp: 463072
Ion Ratio Lower Upper
228 100
226 28.5 22.6 33.8
229 19.7 16.3 24.5



#82
Chrysene
Concen: 21.53 ng
RT: 14.74 min Scan# 2185
Delta R.T. -0.01 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

Tgt Ion:228 Resp: 416591
Ion Ratio Lower Upper
228 100
226 29.6 24.9 37.3
229 21.2 15.8 23.6

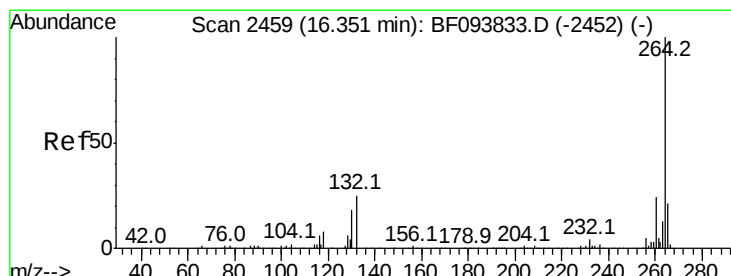
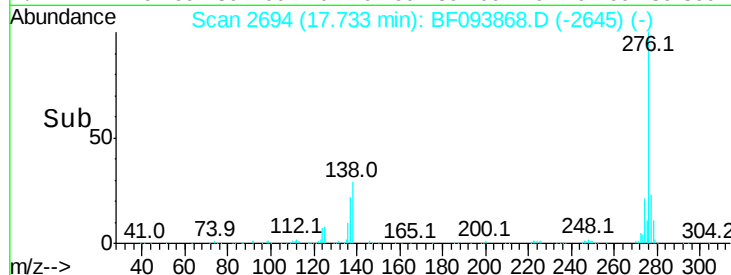
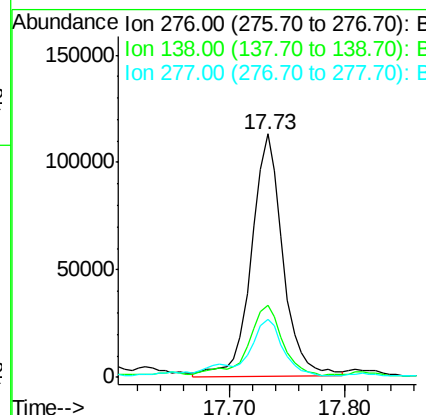
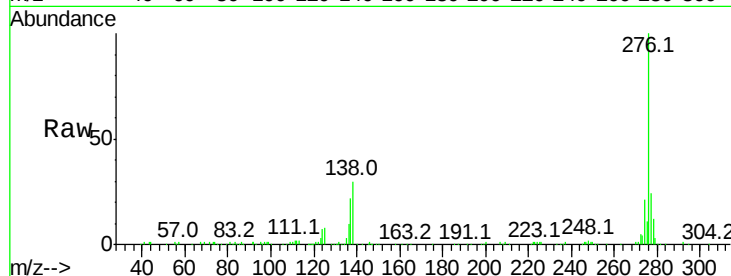




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.80 ng
 RT: 17.73 min Scan# 2694
 Delta R.T. -0.01 min
 Lab File: BF093868.D
 Acq: 23 Mar 2017 8:08

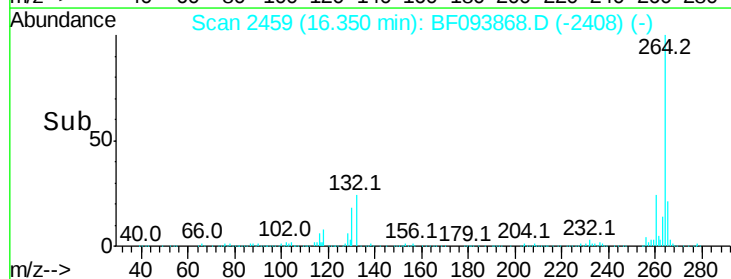
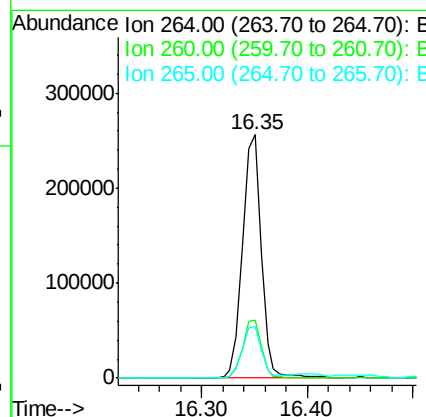
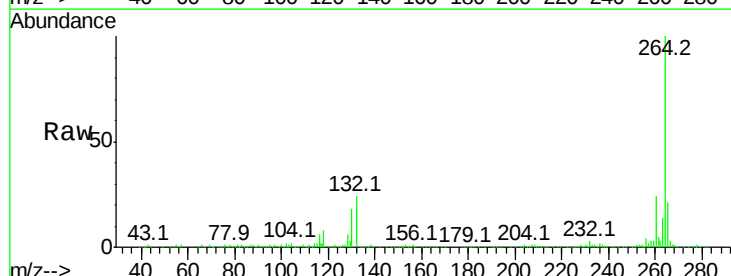
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-202-217-227-COMP

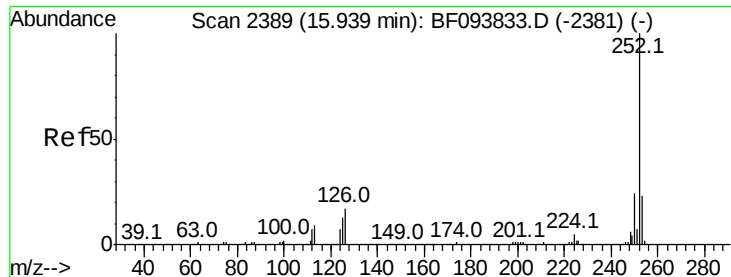
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.6	27.8	41.6
277	23.5	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.35 min Scan# 2459
 Delta R.T. -0.00 min
 Lab File: BF093868.D
 Acq: 23 Mar 2017 8:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.4	17.2	25.8

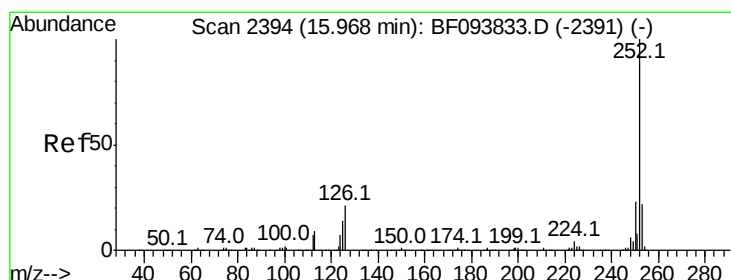
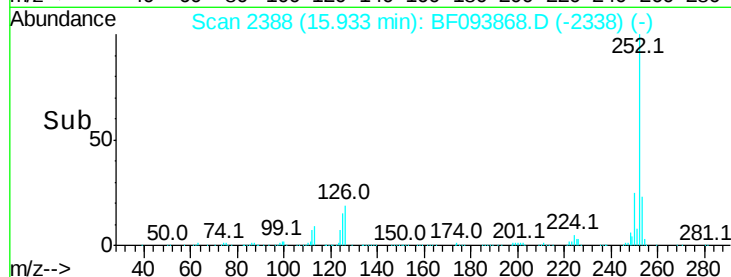
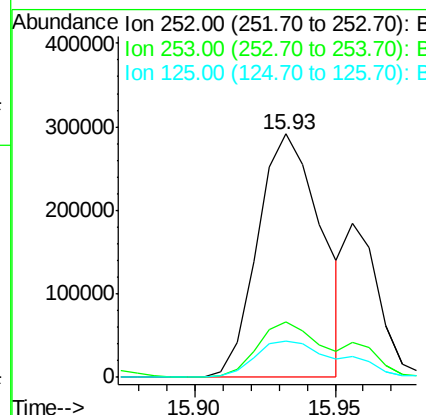
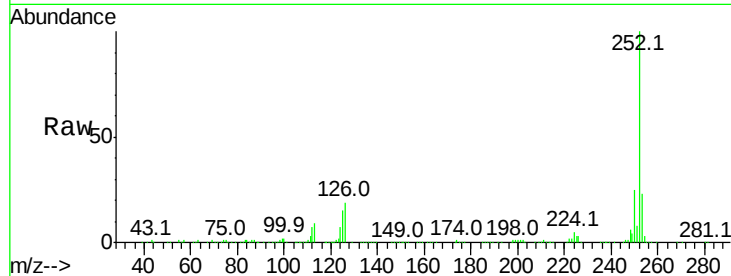




#87
Benzo(b)fluoranthene
Concen: 24.05 ng m
RT: 15.93 min Scan# 2388
Delta R.T. -0.01 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

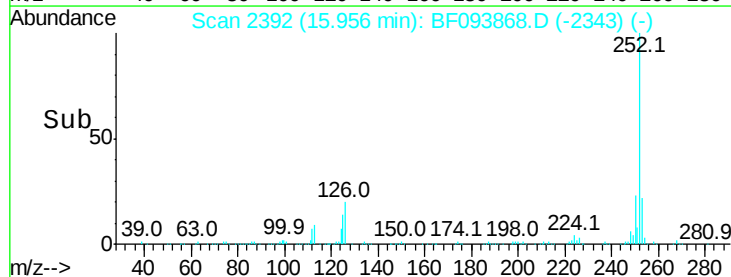
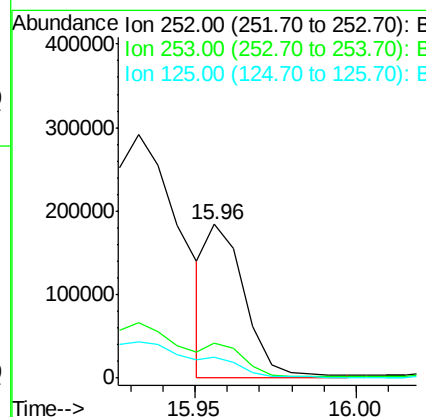
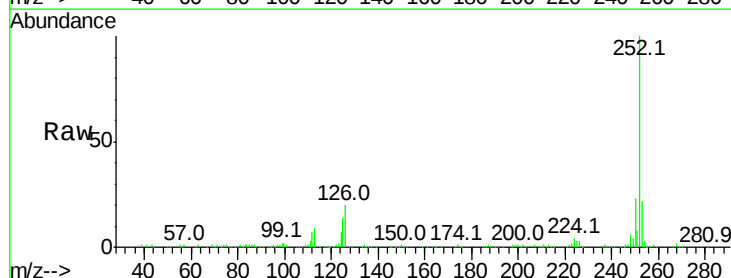
Instrument :
BNA_F
ClientSampleId :
VNJ-202-217-227-COMP

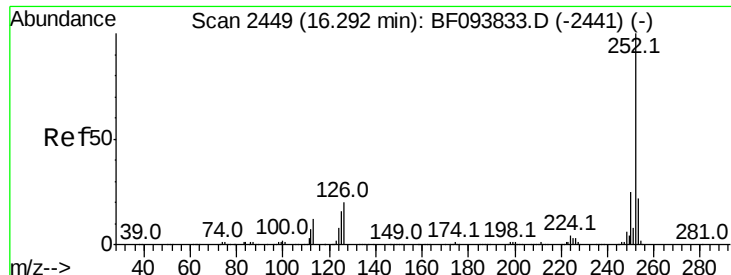
Tot Ion:252 Resp: 461806
Ion Ratio Lower Upper
252 100
253 23.0 18.1 27.1
125 14.9 9.8 14.8#



#88
Benzo(k)fluoranthene
Concen: 8.18 ng m
RT: 15.96 min Scan# 2392
Delta R.T. -0.01 min
Lab File: BF093868.D
Acq: 23 Mar 2017 8:08

Tgt Ion:252 Resp: 153711
Ion Ratio Lower Upper
252 100
253 22.5 18.4 27.6
125 13.9 13.1 19.7





#89

Benzo(a)pyrene

Concen: 20.60 ng

RT: 16.29 min Scan# 2448

Delta R.T. -0.01 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

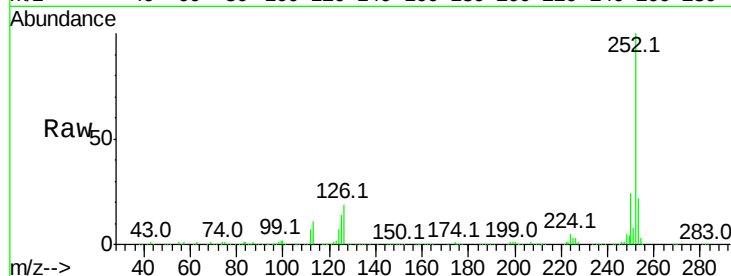
Tot Ion:252 Resp: 364159

Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

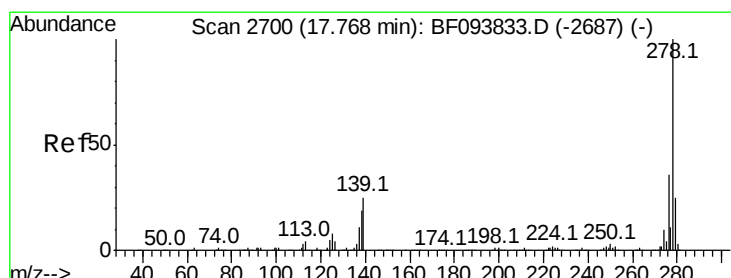
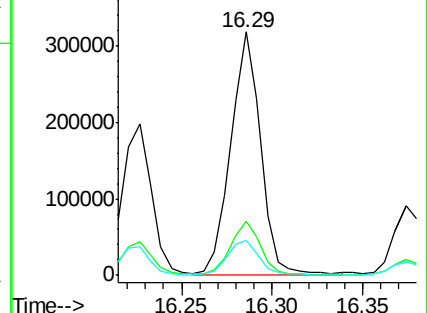
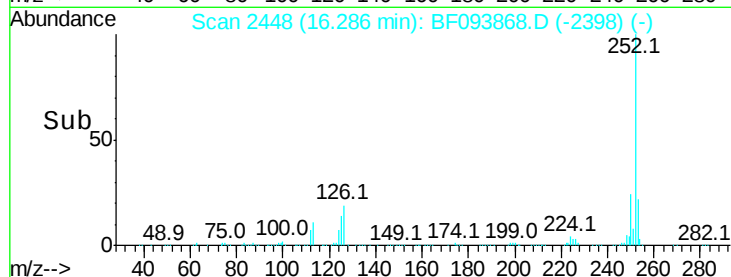
125 14.3 11.0 16.4



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: 3.14 ng m

RT: 17.75 min Scan# 2697

Delta R.T. -0.02 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

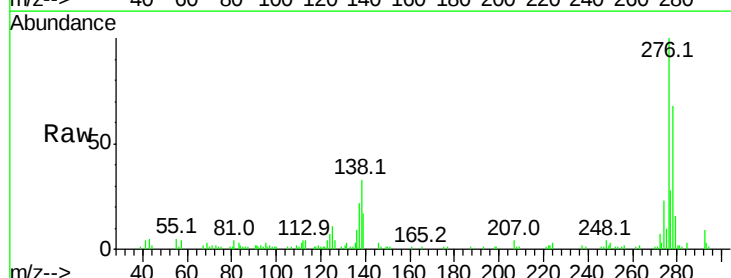
Tgt Ion:278 Resp: 47054

Ion Ratio Lower Upper

278 100

139 25.3 16.6 24.8#

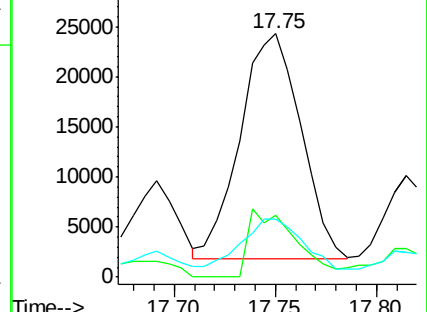
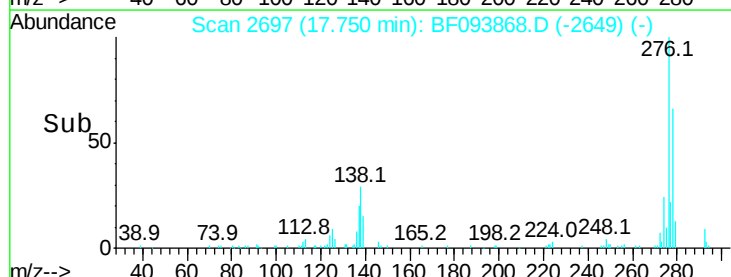
279 23.7 19.3 28.9

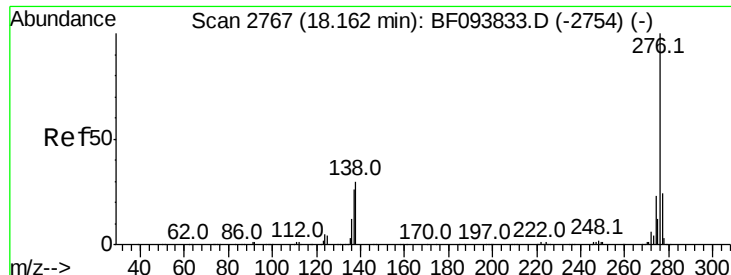


Abundance Ion 278.00 (277.70 to 278.70): E

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: 13.33 ng

RT: 18.14 min Scan# 2764

Delta R.T. -0.02 min

Lab File: BF093868.D

Acq: 23 Mar 2017 8:08

Instrument :

BNA_F

ClientSampleId :

VNJ-202-217-227-COMP

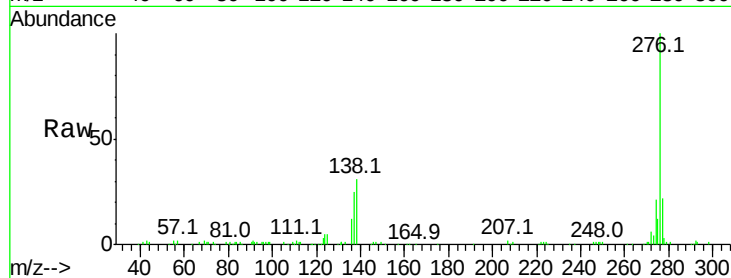
Tot Ion:276 Resp: 201212

Ion Ratio Lower Upper

276 100

277 22.3 18.6 28.0

138 30.9 25.4 38.0



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

