

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082117\
 Data File : BF097931.D
 Acq On : 22 Aug 2017 3:17
 Operator : SJ/JU
 Sample : I4898-04 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-081817-B

Quant Time: Aug 22 04:15:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

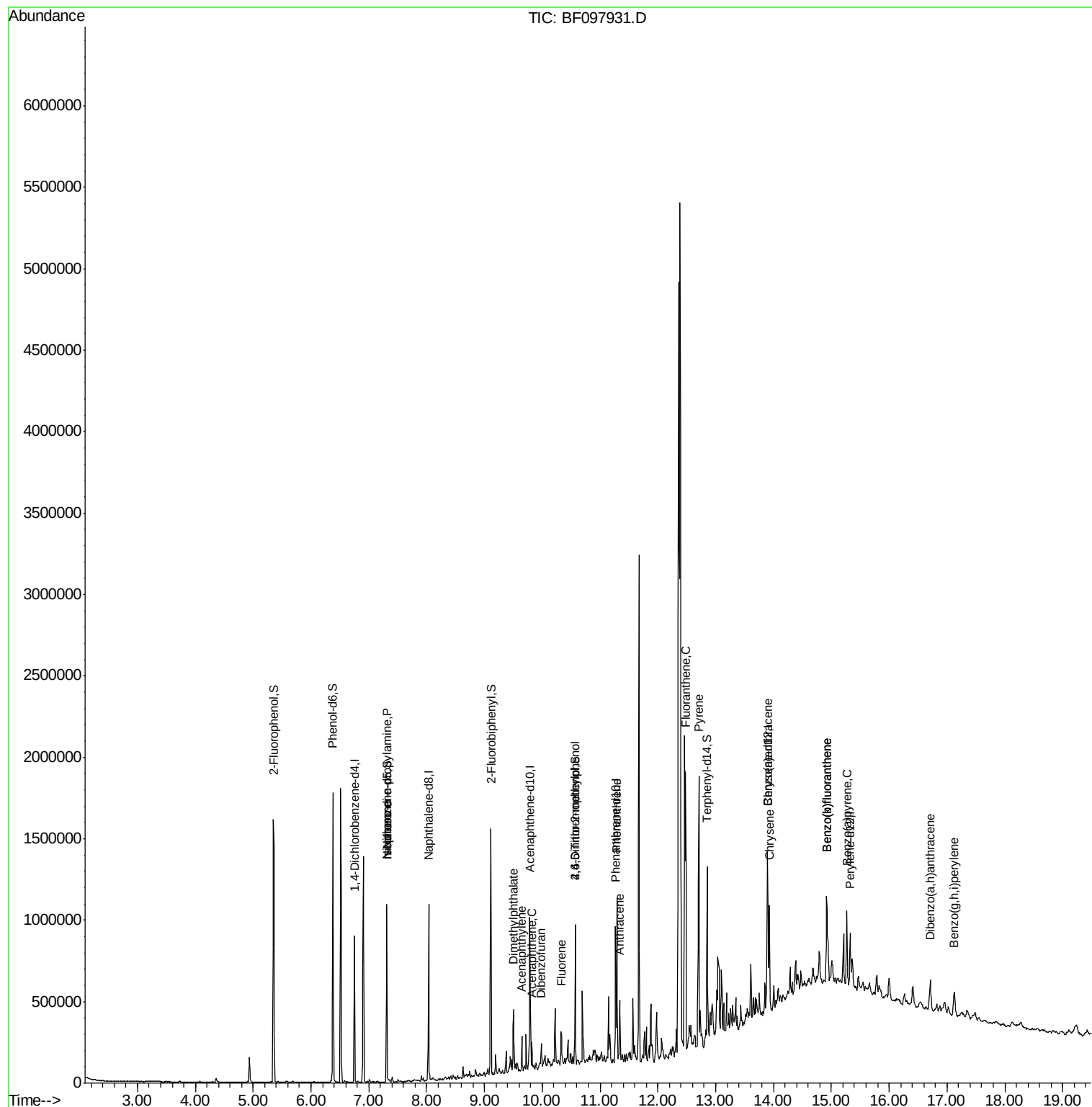
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	112989	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	406366	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	156585	20.00	ng	0.00
63) Phenanthrene-d10	11.27	188	277408	20.00	ng	0.00
75) Chrysene-d12	13.90	240	222668	20.00	ng	0.00
86) Perylene-d12	15.33	264	156648	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	445674	60.00	ng	0.00
7) Phenol-d6	6.38	99	581324	57.60	ng	0.00
23) Nitrobenzene-d5	7.31	82	328881	43.97	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	74117	54.55	ng	0.00
44) 2-Fluorobiphenyl	9.11	172	439736	41.26	ng	0.00
78) Terphenyl-d14	12.85	244	335883	31.46	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.31	70	45784	6.63	ng	# 71
25) Isophorone	7.31	82	323832	20.82	ng	# 67
48) Acenaphthylene	9.65	152	72527	4.38	ng	99
49) Dimethylphthalate	9.50	163	106900	9.34	ng	97
51) Acenaphthene	9.82	154	28320	2.71	ng	96
54) Dibenzofuran	9.99	168	29162	2.08	ng	# 94
57) Fluorene	10.33	166	52653	4.86	ng	94
64) 4,6-Dinitro-2-methylphenol	10.57	198	126	8.40	ng	# 1
70) Phenanthrene	11.29	178	331940	22.46	ng	100
71) Anthracene	11.34	178	128009	8.54	ng	99
74) Fluoranthene	12.48	202	652918	42.32	ng	99
77) Pylene	12.71	202	640429	35.17	ng	99
80) Benzo(a)anthracene	13.89	228	300350	22.51	ng	95
82) Chrysene	13.93	228	254781	19.19	ng	98
87) Benzo(b)fluoranthene	14.92	252	395320	40.04	ng	98
88) Benzo(k)fluoranthene	14.92	252	395320	42.61	ng	97
89) Benzo(a)pyrene	15.27	252	216600	24.78	ng	99
90) Dibenzo(a,h)anthracene	16.72	278	28660	4.03	ng	# 79
91) Benzo(a,h,i)perylene	17.13	276	124244	16.73	ng	93

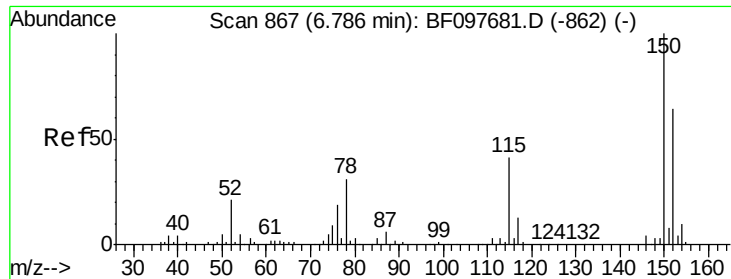
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 793

Delta R.T. -0.00 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

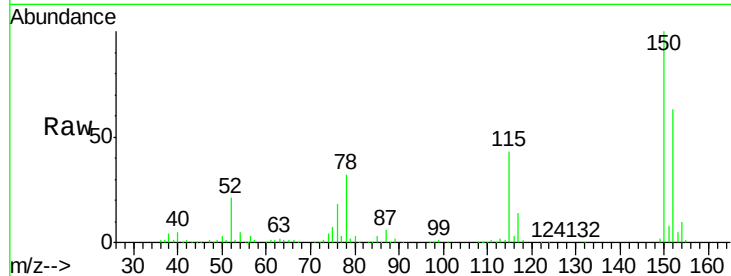
Tot Ion:152 Resp: 112989

Ion Ratio Lower Upper

152 100

150 158.3 126.2 189.2

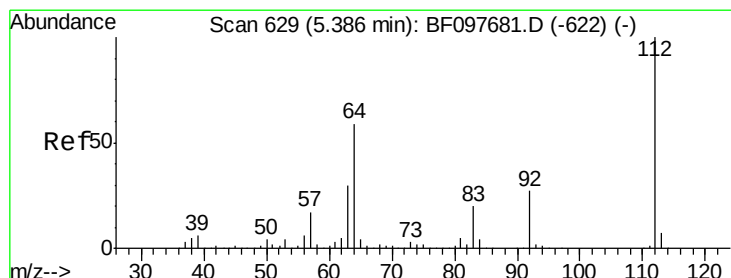
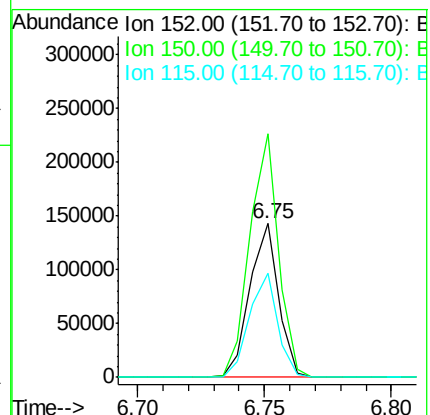
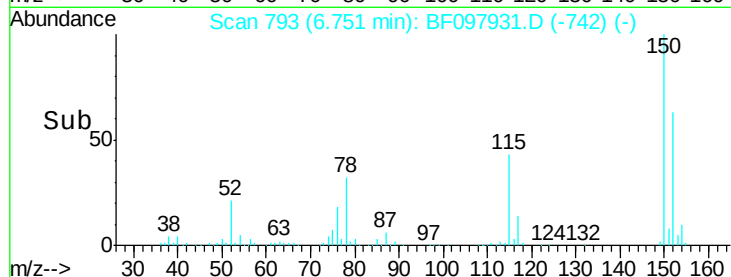
115 67.5 52.2 78.2



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: 60.00 ng

RT: 5.35 min Scan# 555

Delta R.T. -0.00 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

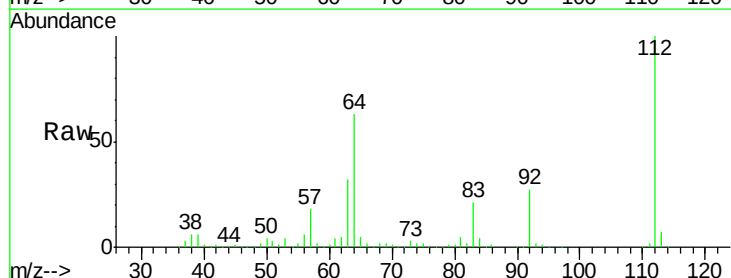
Tgt Ion:112 Resp: 445674

Ion Ratio Lower Upper

112 100

64 63.4 46.0 69.0

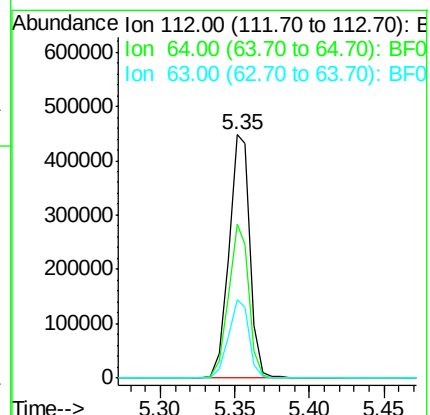
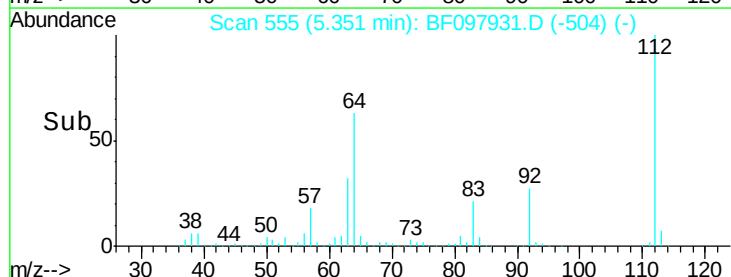
63 32.3 23.4 35.0

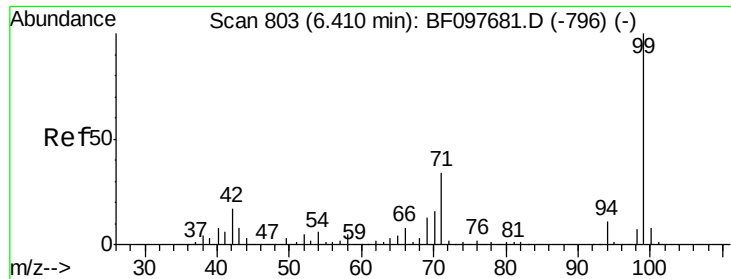


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 57.60 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

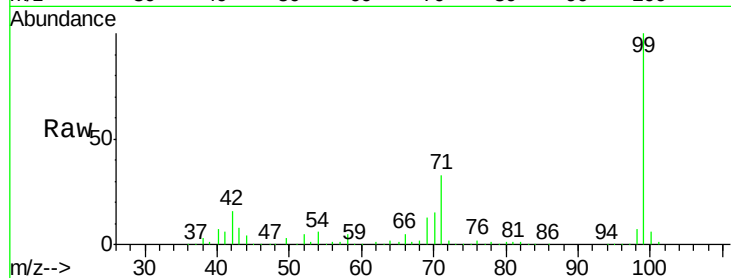
Tot Ion: 99 Resp: 581324

Ion Ratio Lower Upper

99 100

42 16.2 13.5 20.3

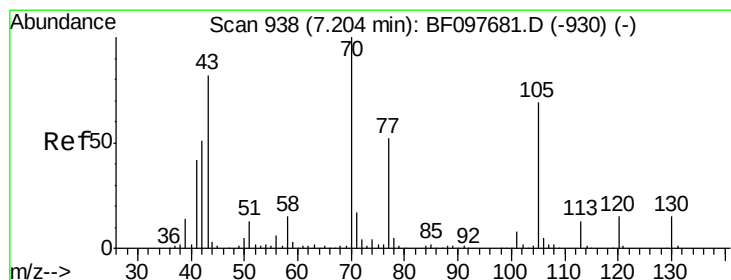
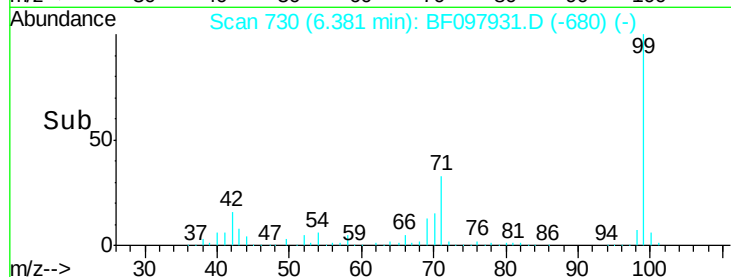
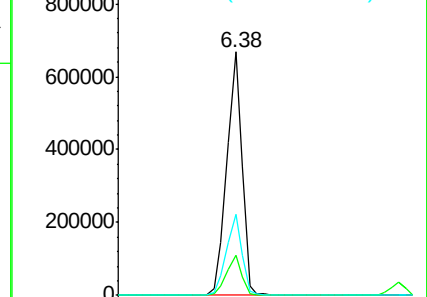
71 33.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.63 ng

RT: 7.31 min Scan# 888

Delta R.T. 0.14 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Tgt Ion: 70 Resp: 45784

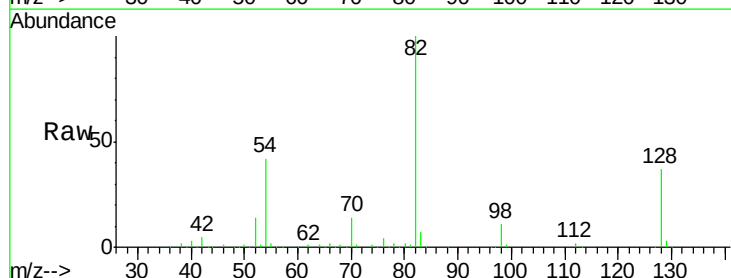
Ion Ratio Lower Upper

70 100

42 39.8 47.2 70.8#

101 0.0 7.2 10.8#

130 1.8 15.9 23.9#

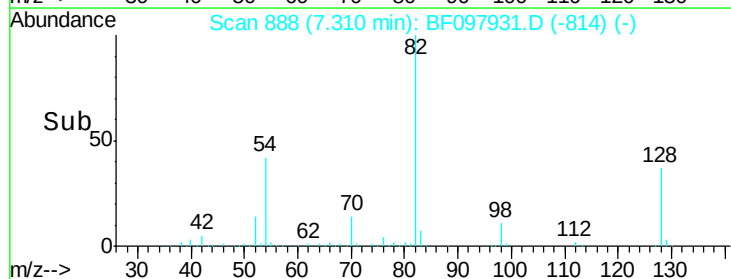
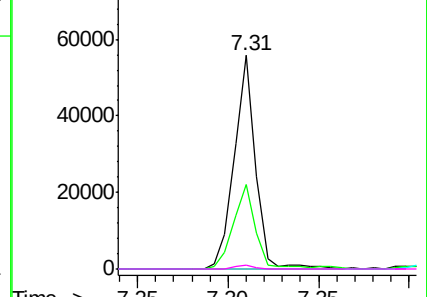


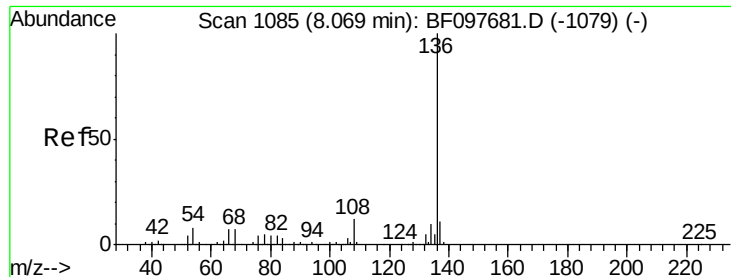
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

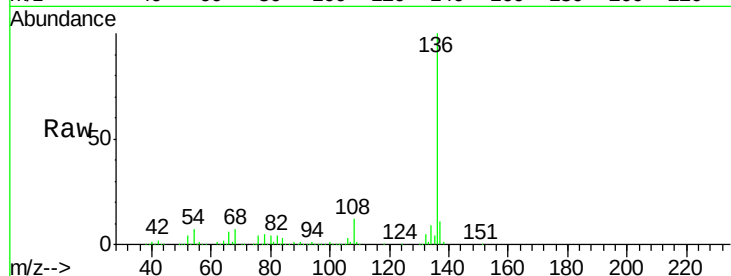




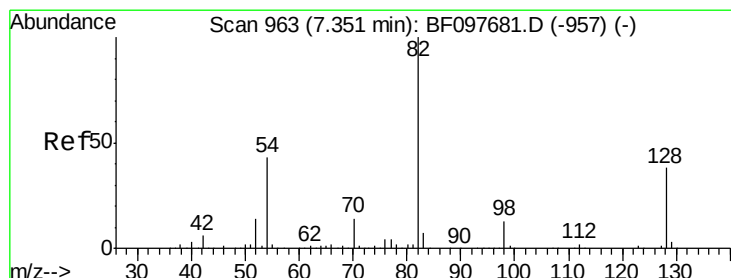
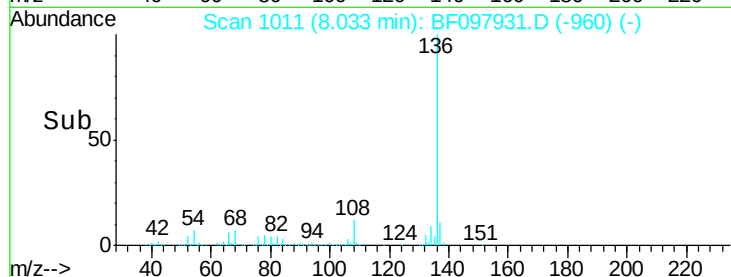
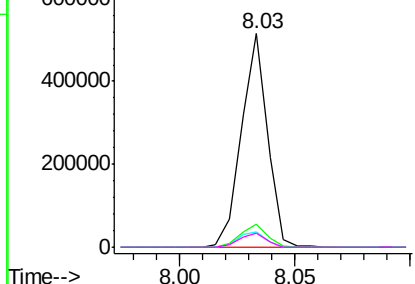
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF097931.D
Acq: 22 Aug 2017 3:17

Instrument :
BNA_F
ClientSampleId :
NB-08-081817-B

Tot Ion:136	Resp:	406366
Ion Ratio	Lower	Upper
136	100	
137	10.7	8.5 12.7
54	7.5	4.9 7.3#
68	6.9	4.1 6.1#

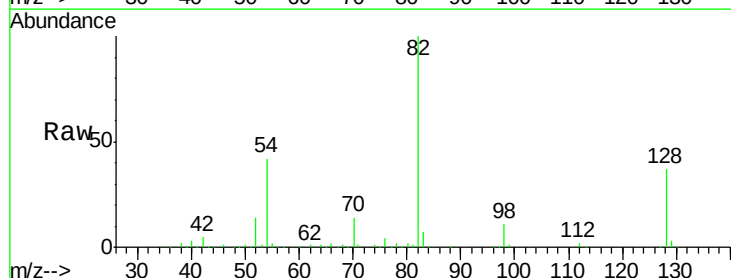


Abundance Ion 136.00 (135.70 to 136.70): E
800000
Ion 137.00 (136.70 to 137.70): E
600000
Ion 54.00 (53.70 to 54.70): BF0
400000
Ion 68.00 (67.70 to 68.70): BF0
200000
0

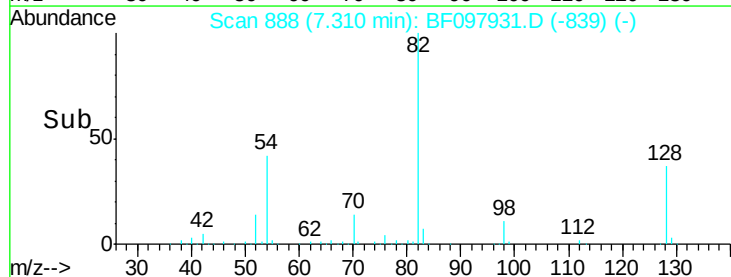
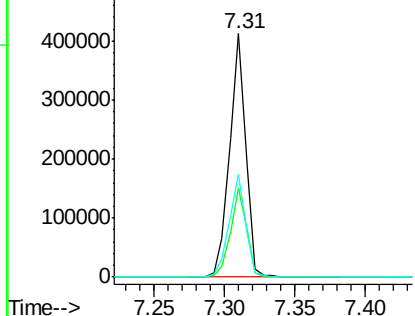


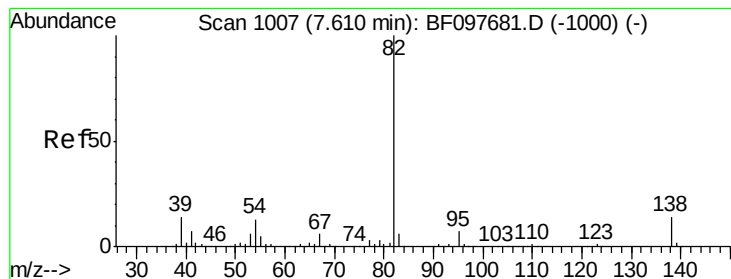
#23
Nitrobenzene-d5
Concen: 43.97 ng
RT: 7.31 min Scan# 888
Delta R.T. -0.01 min
Lab File: BF097931.D
Acq: 22 Aug 2017 3:17

Tgt Ion: 82	Resp:	328881
Ion Ratio	Lower	Upper
82	100	
128	36.6	34.0 51.0
54	42.1	42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0
500000
Ion 128.00 (127.70 to 128.70): E
400000
Ion 54.00 (53.70 to 54.70): BF0
300000
200000
100000
0





#25

Isophorone

Concen: 20.82 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.27 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

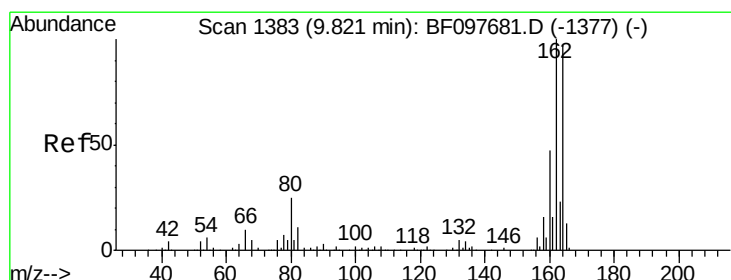
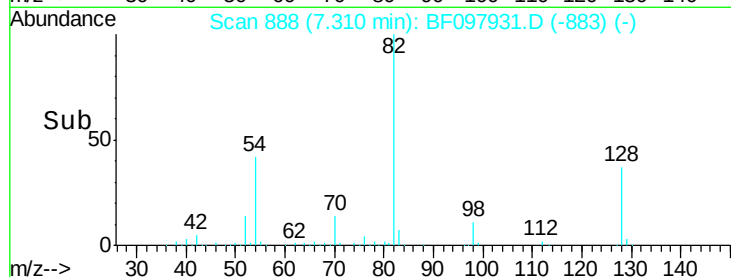
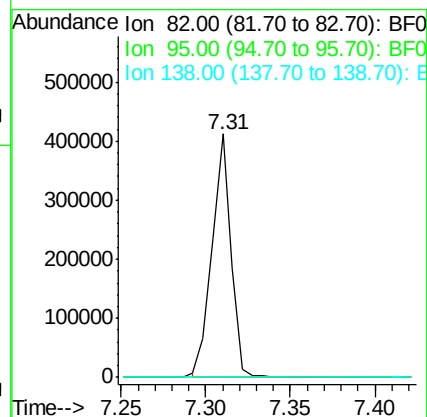
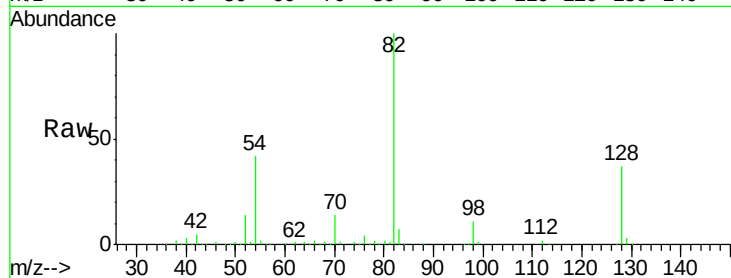
Tot Ion: 82 Resp: 323832

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.00 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

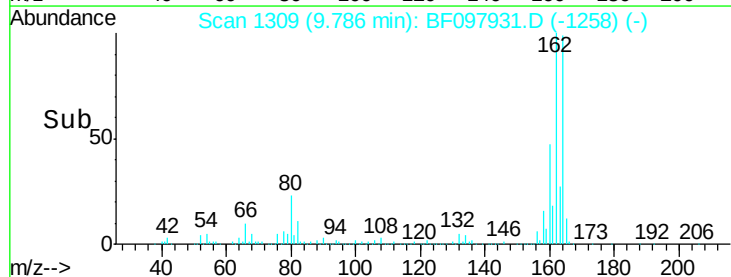
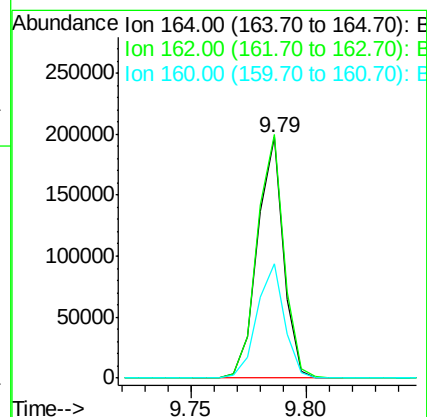
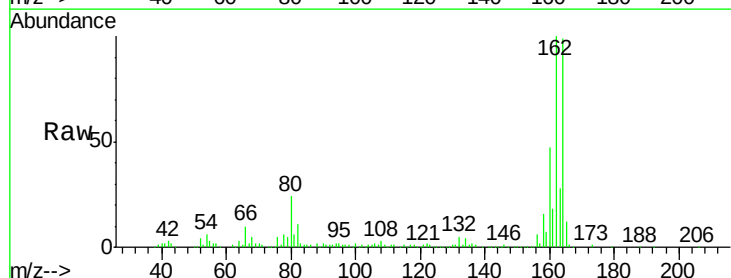
Tgt Ion:164 Resp: 156585

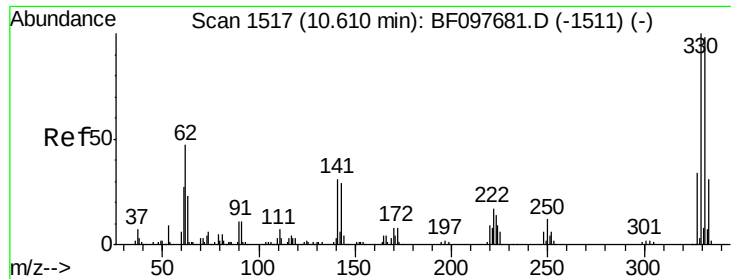
Ion Ratio Lower Upper

164 100

162 101.1 82.6 123.8

160 47.5 36.2 54.2

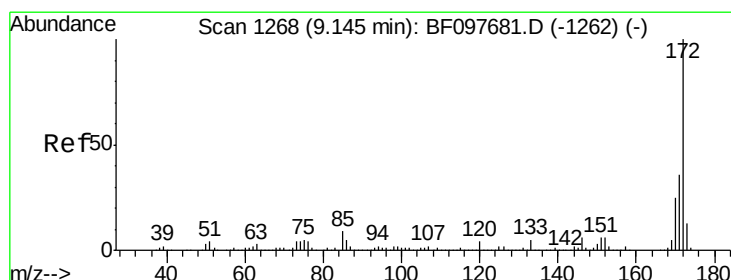
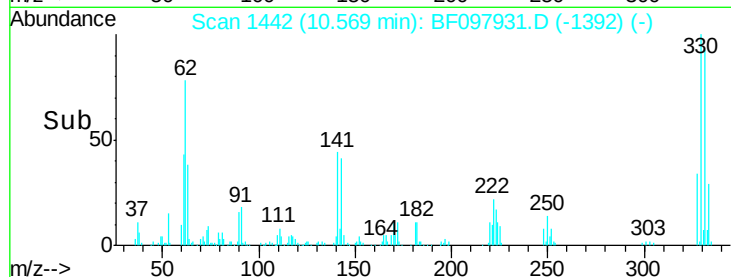
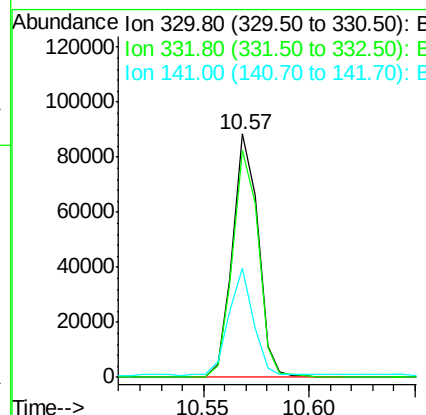
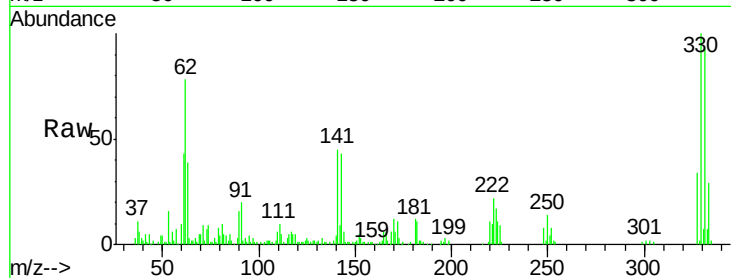




#41
 2,4,6-Tribromophenol
 Concen: 54.55 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

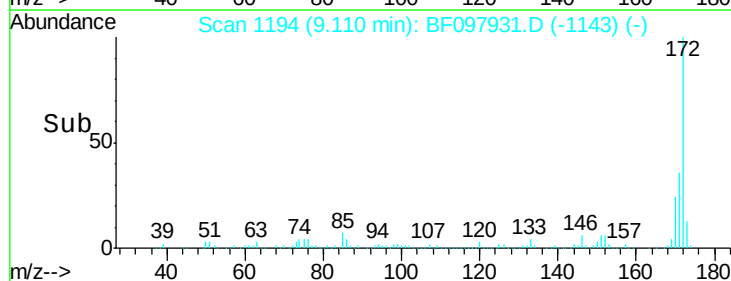
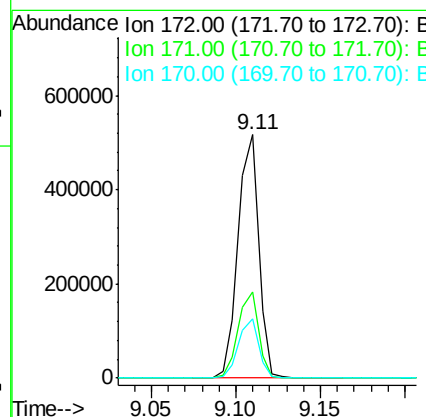
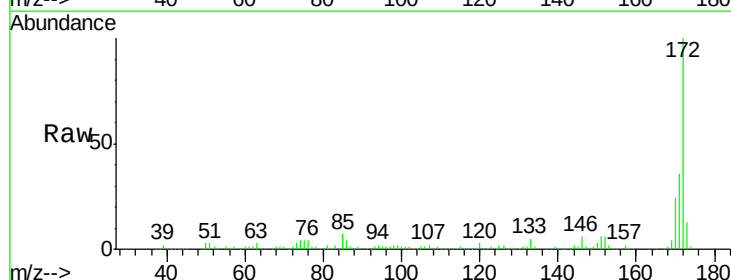
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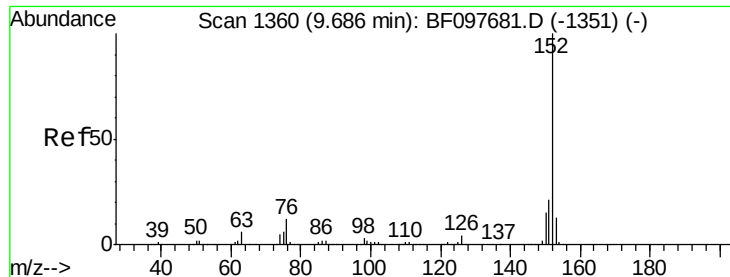
Tot Ion	Ratio	Lower	Upper
330	100		
332	94.5	76.6	115.0
141	42.7	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 41.26 ng
 RT: 9.11 min Scan# 1194
 Delta R.T. -0.00 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	24.3	19.8	29.8





#48

Acenaphthylene

Concen: 4.38 ng

RT: 9.65 min Scan# 1285

Delta R.T. -0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

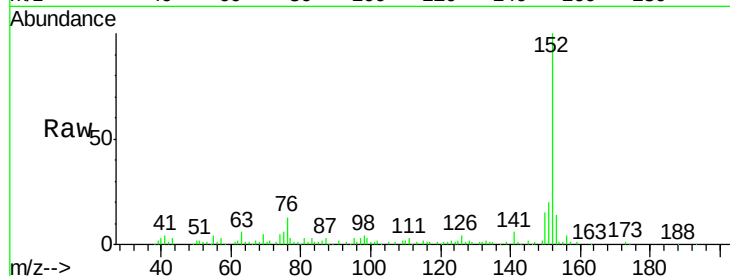
Tot Ion:152 Resp: 72527

Ion Ratio Lower Upper

152 100

151 19.9 16.8 25.2

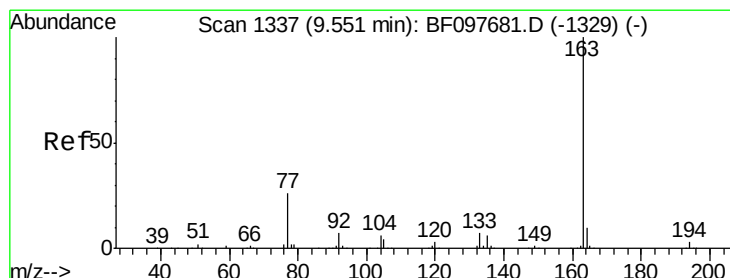
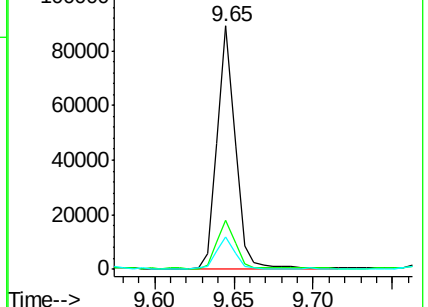
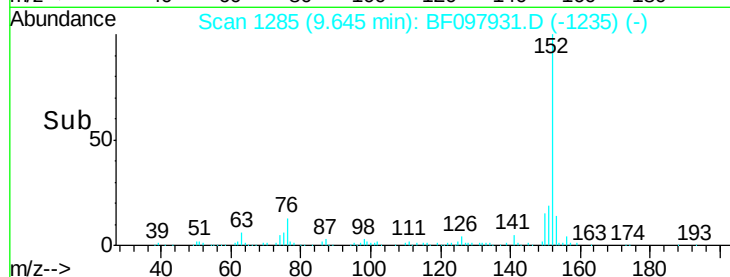
153 13.5 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 9.34 ng

RT: 9.50 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

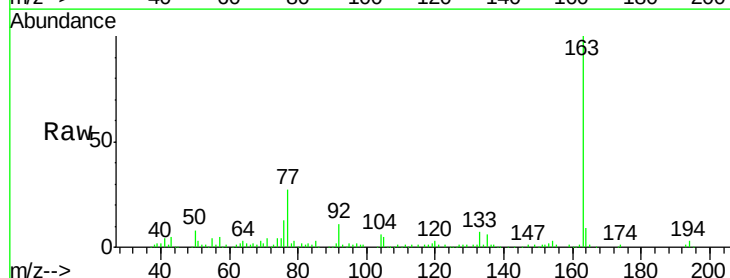
Tgt Ion:163 Resp: 106900

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

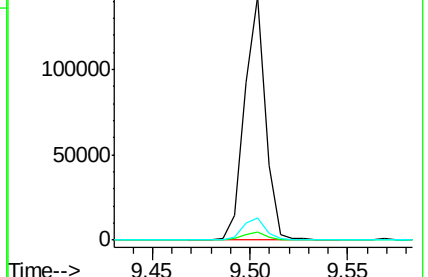
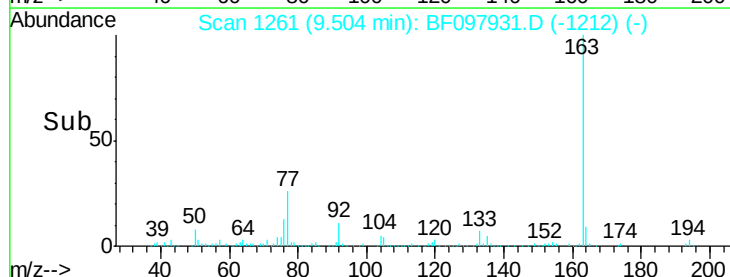
164 9.2 8.4 12.6

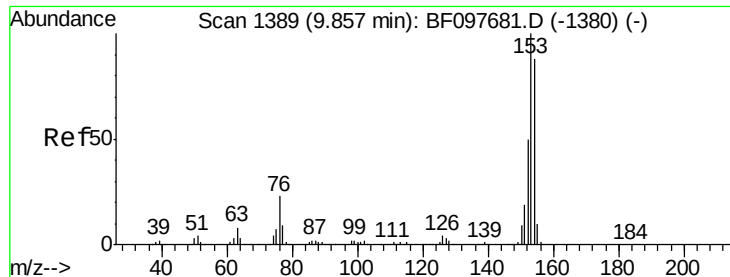


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.71 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

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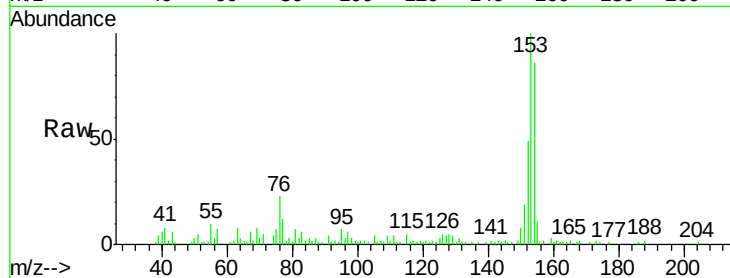
Tot Ion:154 Resp: 28320

Ion Ratio Lower Upper

154 100

153 116.7 90.5 135.7

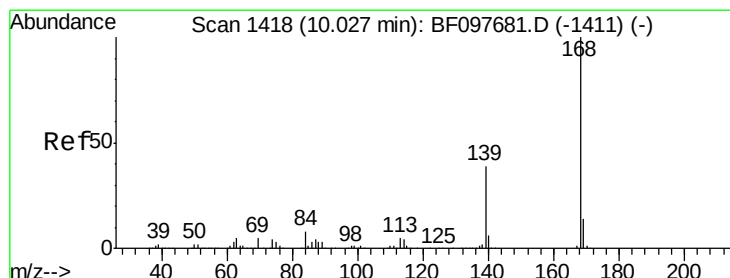
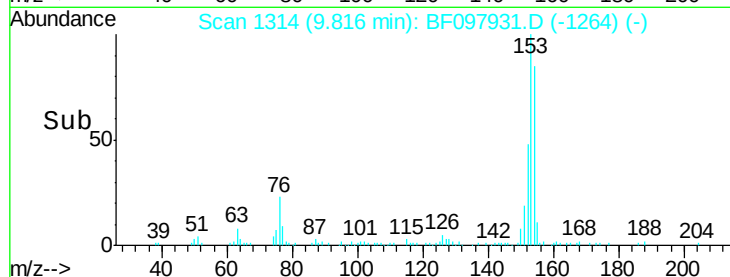
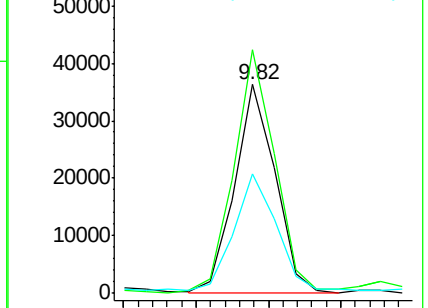
152 57.4 43.6 65.4



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



#54

Dibenzofuran

Concen: 2.08 ng

RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

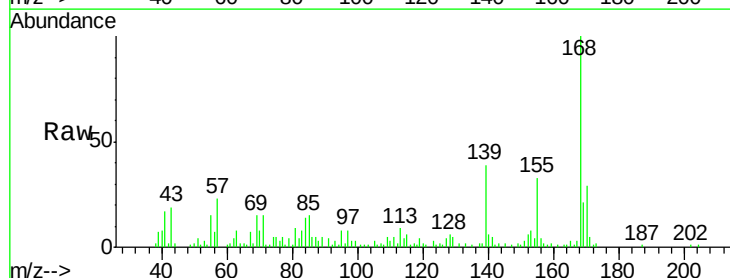
Tgt Ion:168 Resp: 29162

Ion Ratio Lower Upper

168 100

139 39.4 30.6 45.8

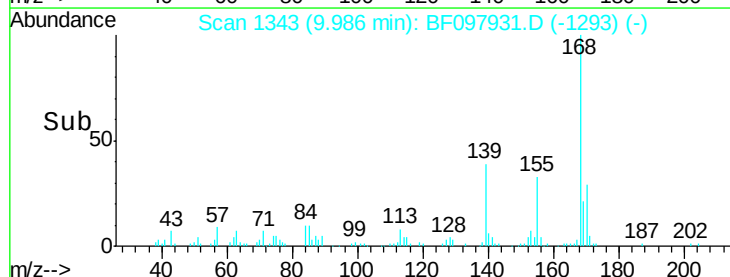
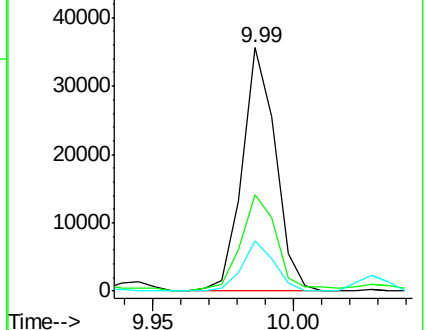
169 20.7 10.8 16.2#

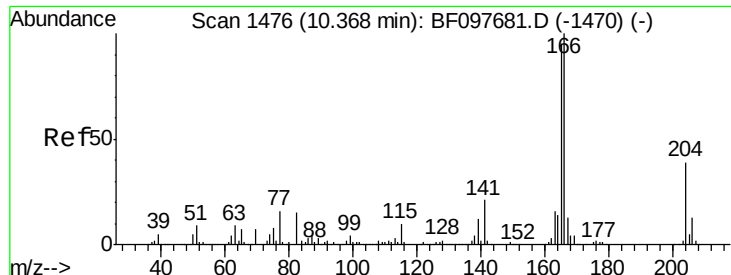


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

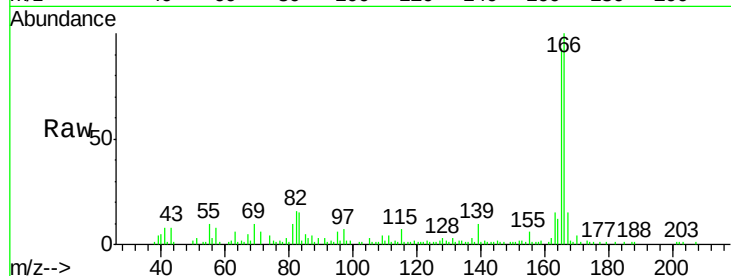




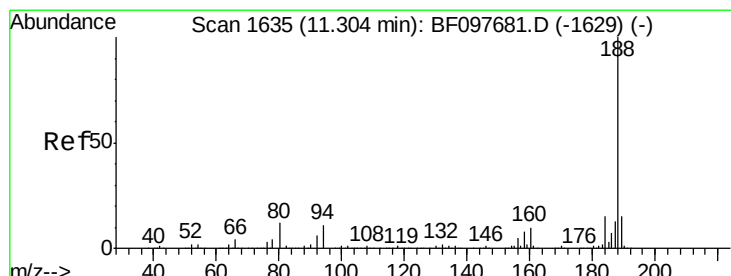
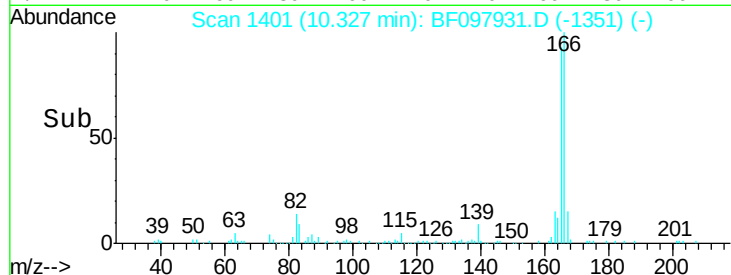
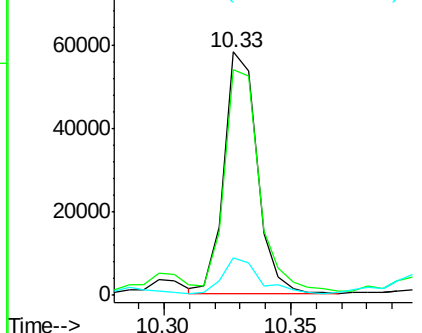
#57
Fluorene
 Concen: 4.86 ng
 RT: 10.33 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-081817-B

Tot Ion:166 Resp: 52653
 Ion Ratio Lower Upper
 166 100
 165 92.8 78.8 118.2
 167 15.4 10.6 16.0

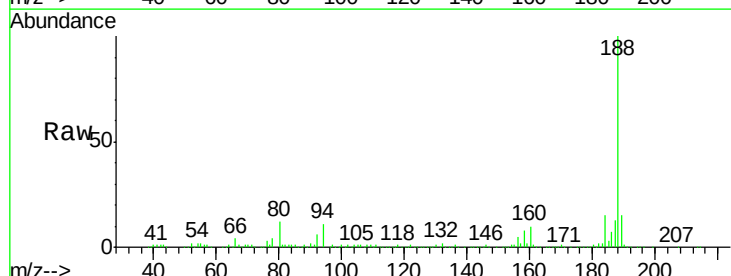


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

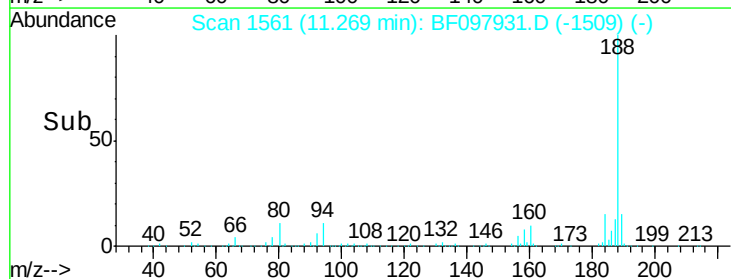
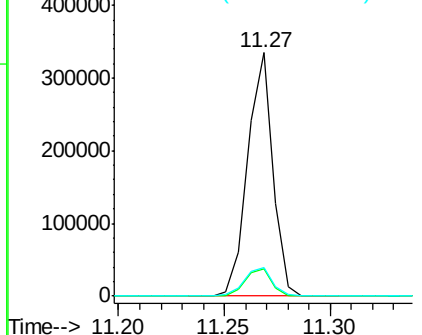


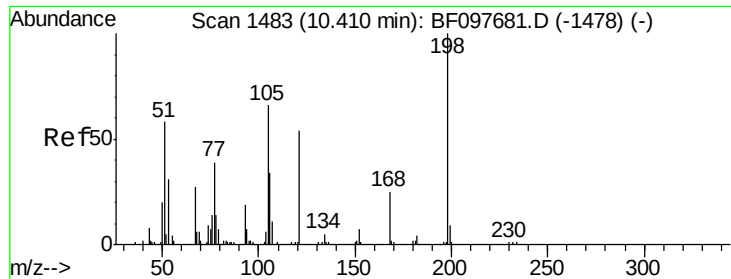
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

Tgt Ion:188 Resp: 277408
 Ion Ratio Lower Upper
 188 100
 94 11.4 9.4 14.2
 80 11.5 10.2 15.2



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

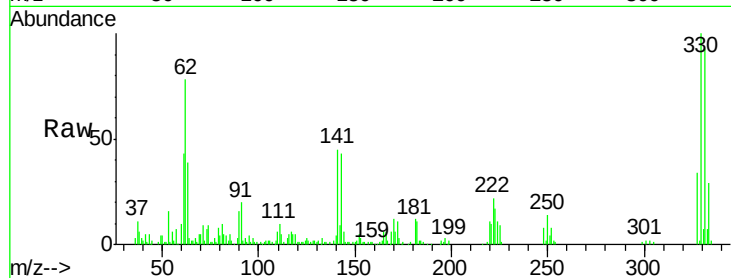




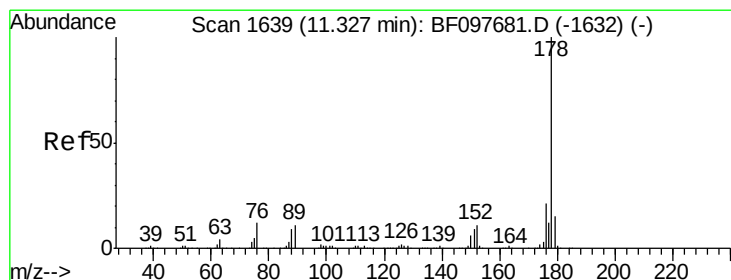
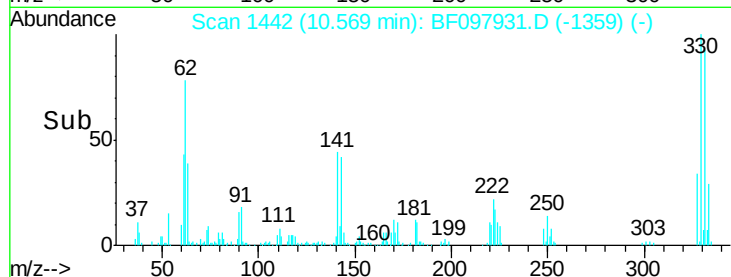
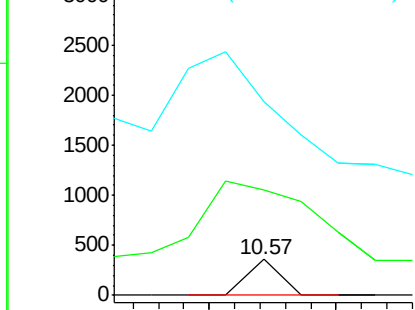
#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.40 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. 0.19 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-081817-B

Tot Ion:198 Resp: 126
 Ion Ratio Lower Upper
 198 100
 51 295.3 53.2 93.2#
 105 541.9 45.8 85.8#

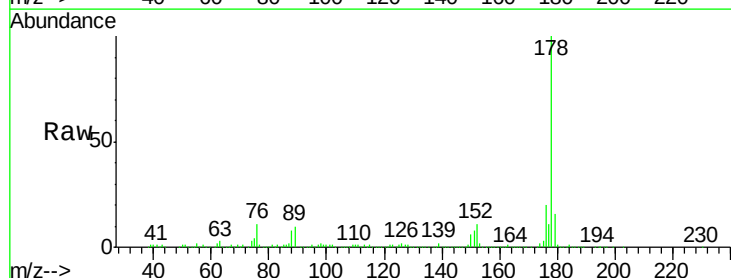


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF0
 Ion 105.00 (104.70 to 105.70): E

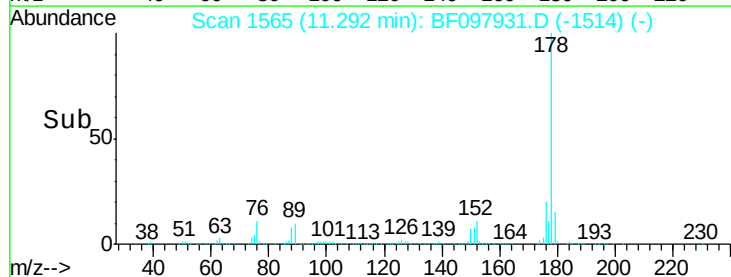
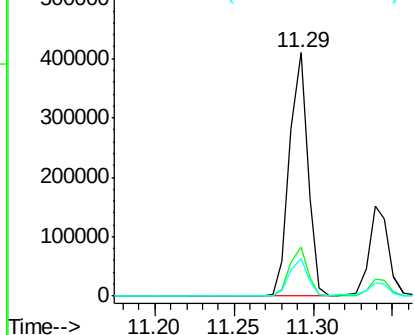


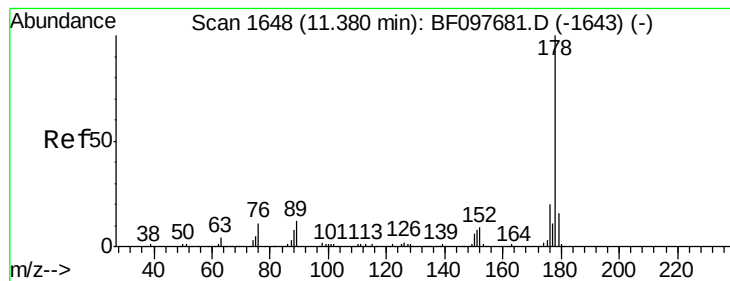
#70
 Phenanthrene
 Concen: 22.46 ng
 RT: 11.29 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

Tgt Ion:178 Resp: 331940
 Ion Ratio Lower Upper
 178 100
 176 20.4 16.2 24.4
 179 15.6 12.6 19.0



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





#71

Anthracene

Concen: 8.54 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

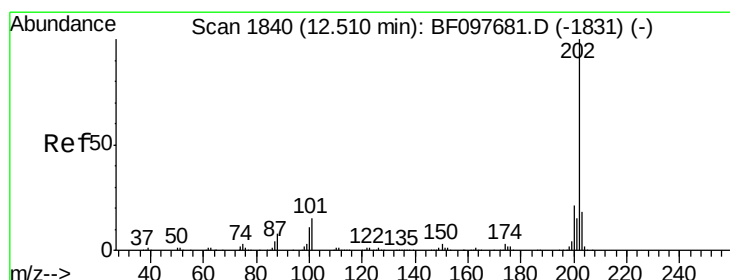
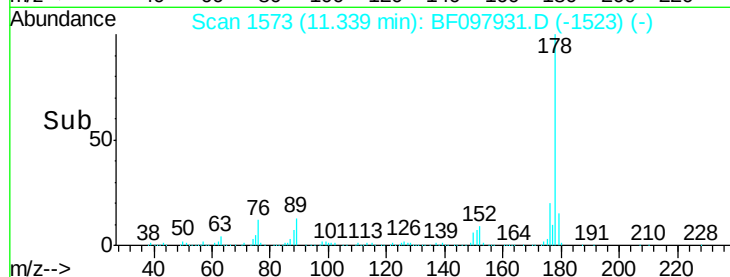
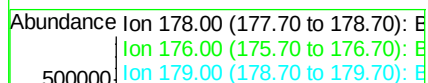
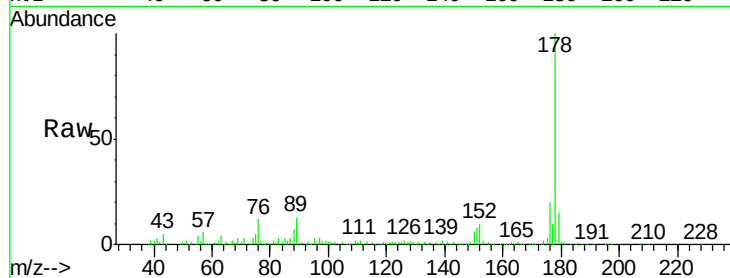
Tot Ion:178 Resp: 128009

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

179 14.8 12.7 19.1



#74

Fluoranthene

Concen: 42.32 ng

RT: 12.48 min Scan# 1767

Delta R.T. 0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

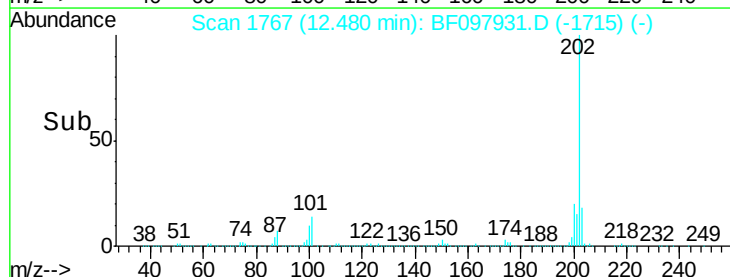
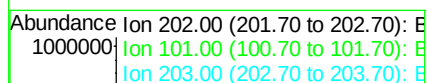
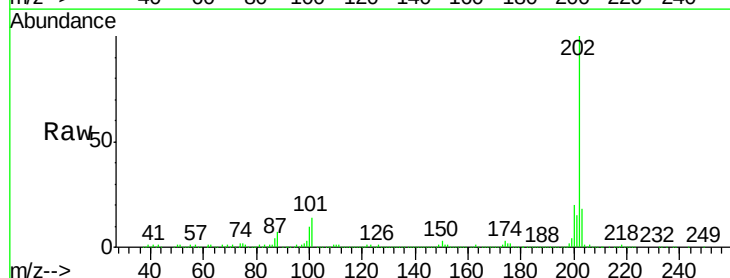
Tgt Ion:202 Resp: 652918

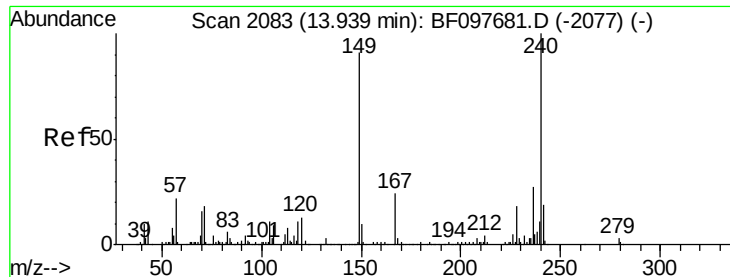
Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

203 18.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 2009

Delta R.T. 0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

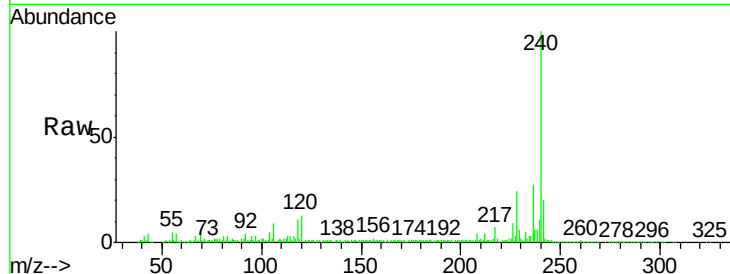
Tot Ion:240 Resp: 222668

Ion Ratio Lower Upper

240 100

120 13.1 5.8 8.8#

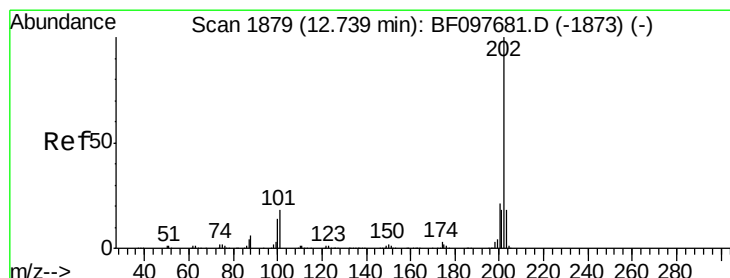
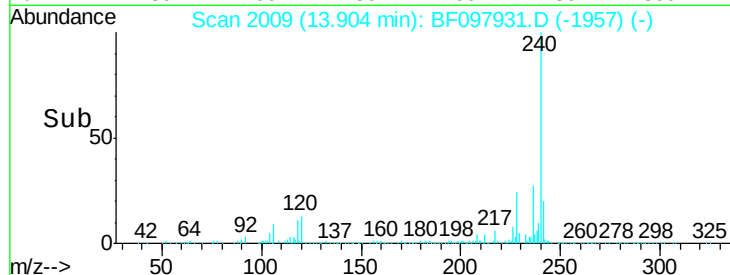
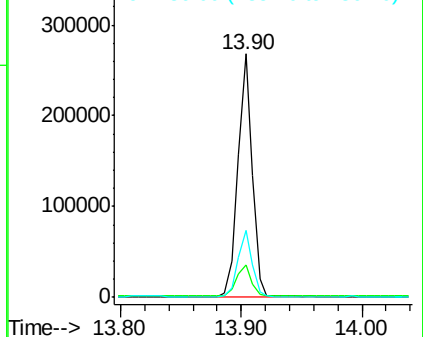
236 27.3 20.5 30.7



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

Pyrene

Concen: 35.17 ng

RT: 12.71 min Scan# 1806

Delta R.T. 0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

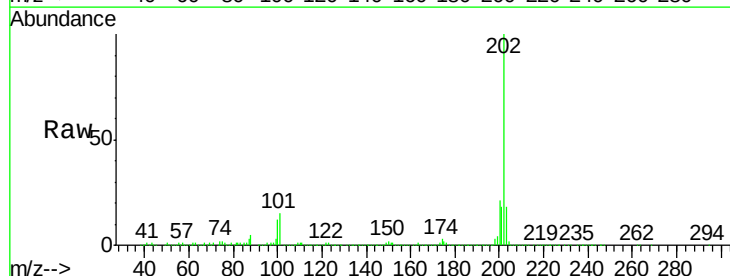
Tgt Ion:202 Resp: 640429

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

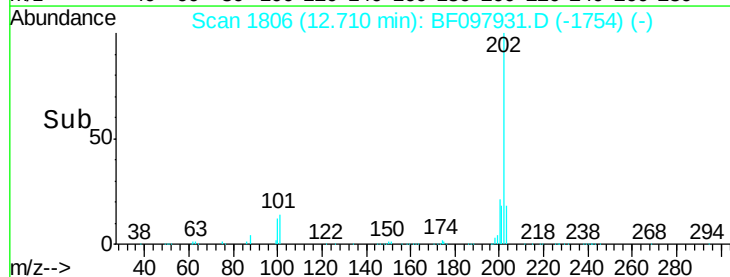
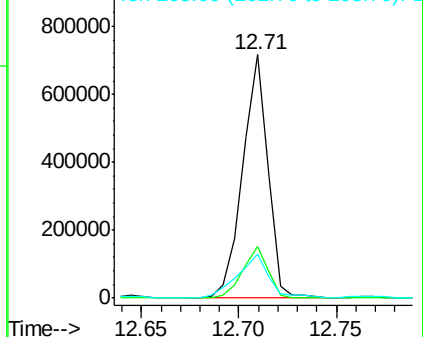
203 18.2 14.4 21.6

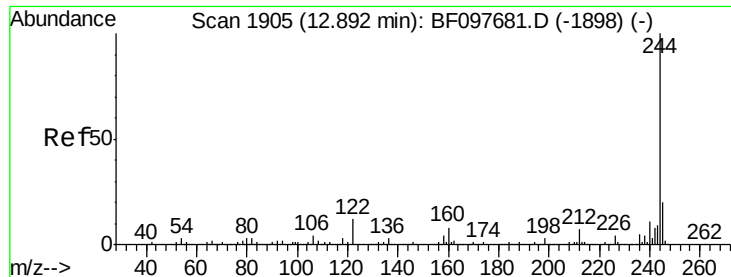


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

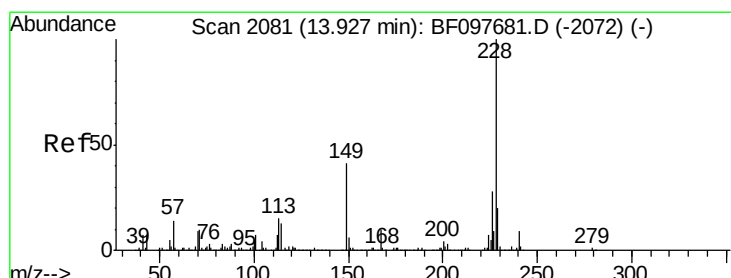
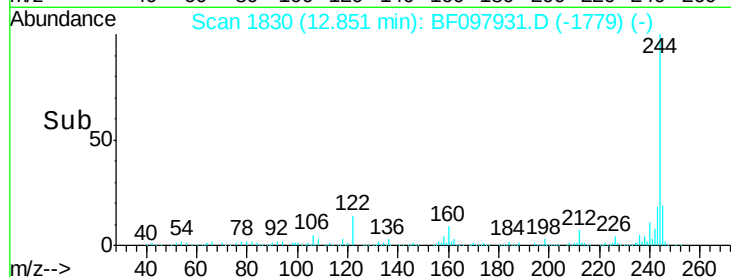
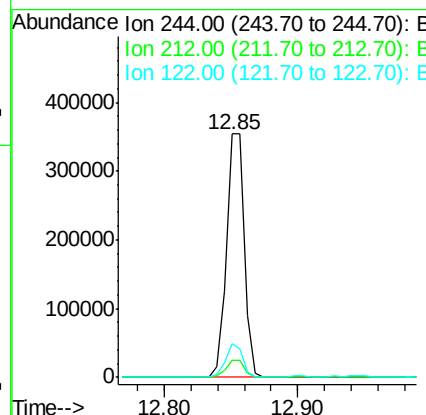
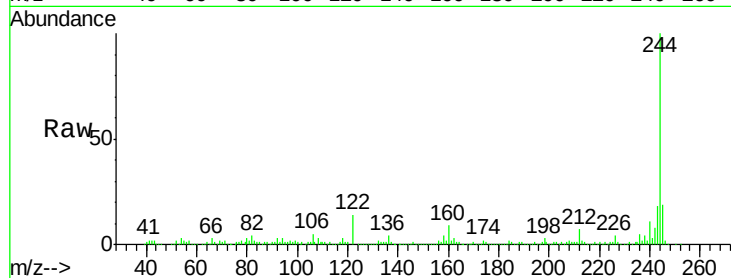




#78
 Terphenyl-d14
 Concen: 31.46 ng
 RT: 12.85 min Scan# 1830
 Delta R.T. -0.00 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

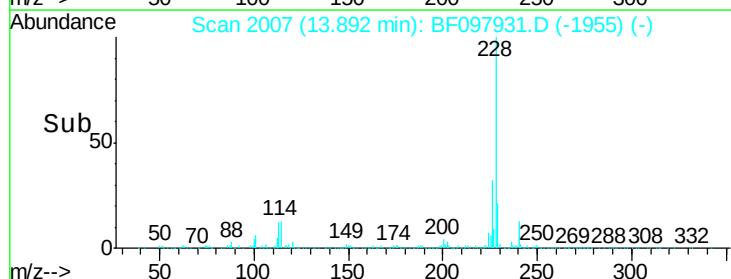
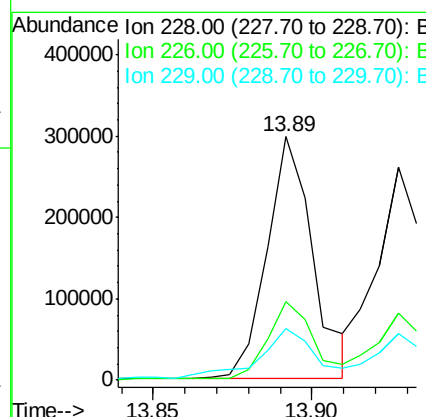
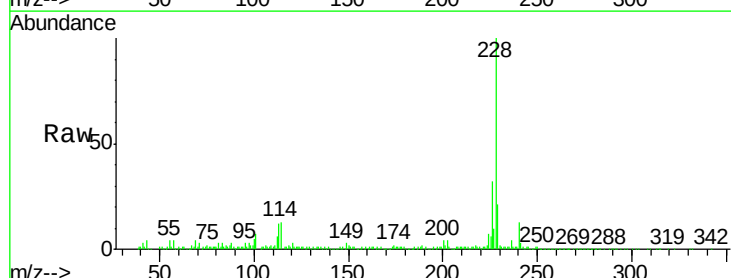
Instrument :
 BNA_F
 ClientSampleId :
 NB-08-081817-B

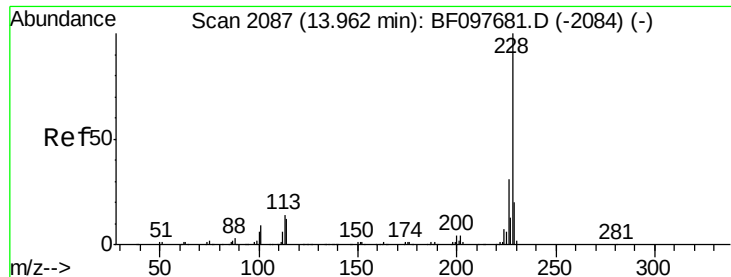
Tot Ion:244 Resp: 335883
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 14.0 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 22.51 ng
 RT: 13.89 min Scan# 2007
 Delta R.T. 0.01 min
 Lab File: BF097931.D
 Acq: 22 Aug 2017 3:17

Tgt Ion:228 Resp: 300350
 Ion Ratio Lower Upper
 228 100
 226 32.3 22.6 33.8
 229 21.1 16.3 24.5





#82

Chrysene

Concen: 19.19 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.00 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

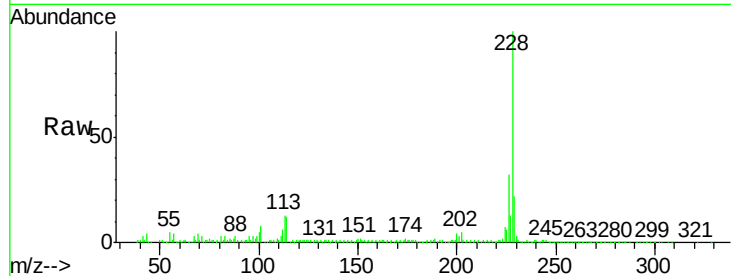
Tot Ion:228 Resp: 254781

Ion Ratio Lower Upper

228 100

226 31.5 24.9 37.3

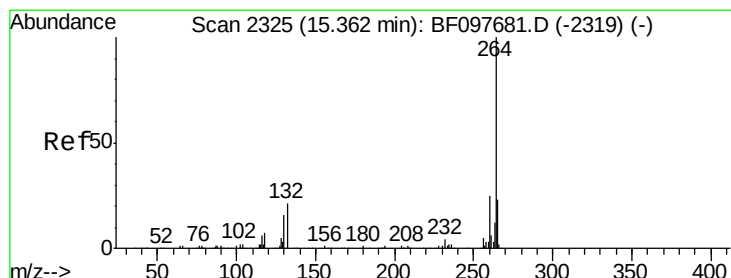
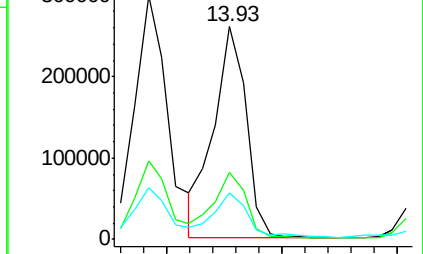
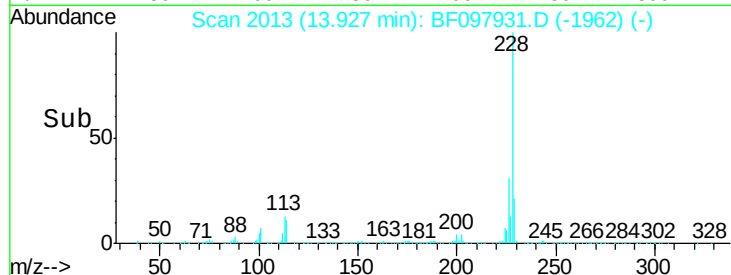
229 22.0 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 2251

Delta R.T. 0.02 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

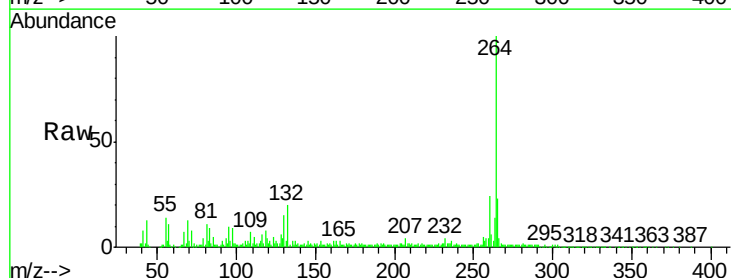
Tgt Ion:264 Resp: 156648

Ion Ratio Lower Upper

264 100

260 24.5 19.5 29.3

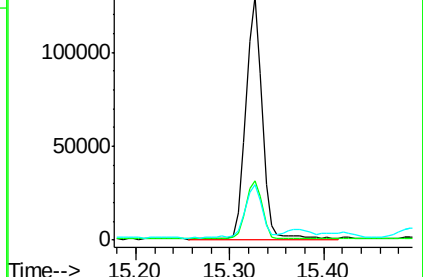
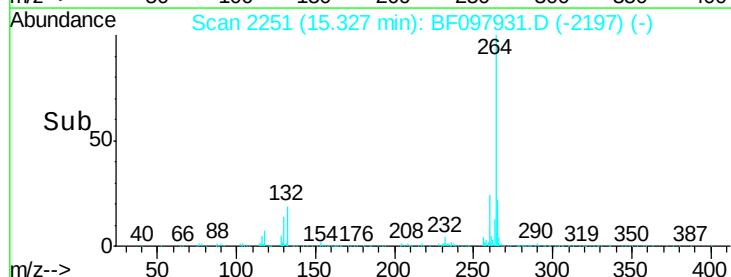
265 22.6 17.2 25.8

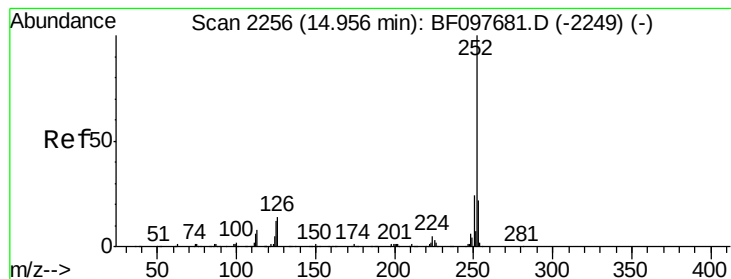


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 40.04 ng

RT: 14.92 min Scan# 2182

Delta R.T. 0.01 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

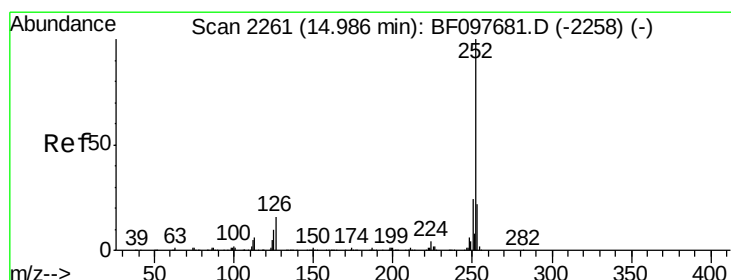
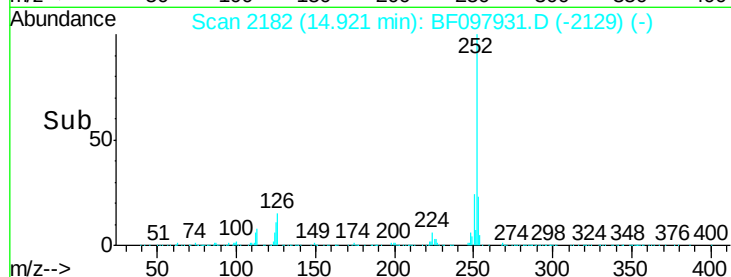
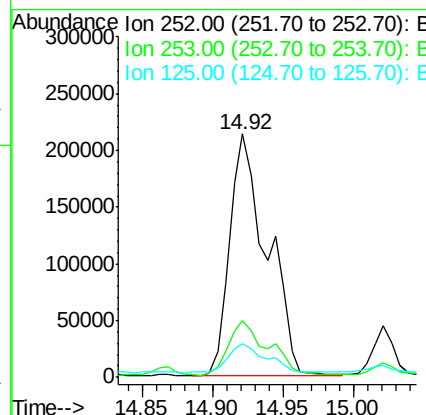
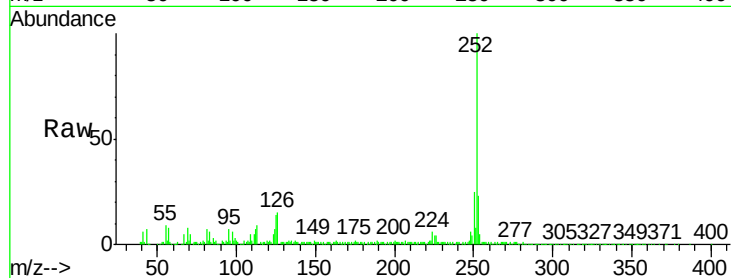
Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

Tot Ion:	252	Resp:	395320
Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	13.6	9.8	14.8



#88

Benzo(k)fluoranthene

Concen: 42.61 ng

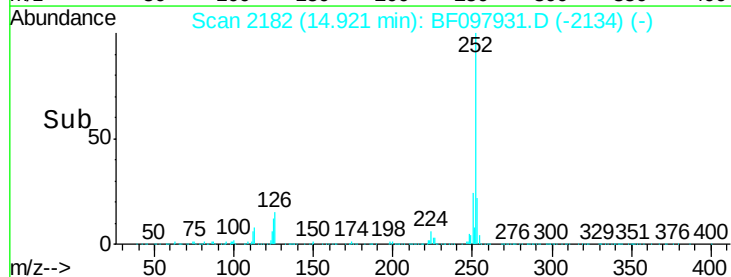
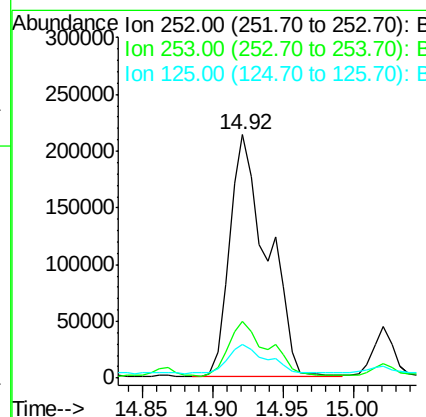
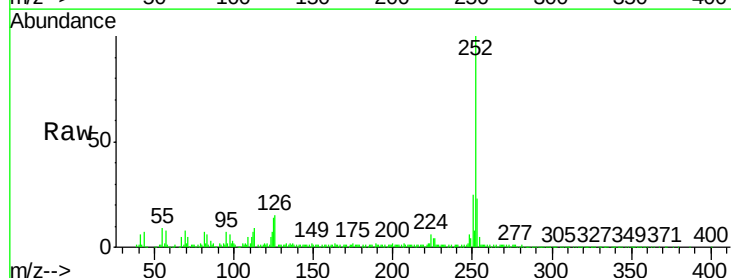
RT: 14.92 min Scan# 2182

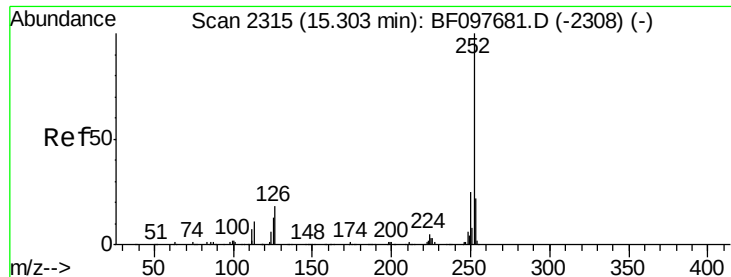
Delta R.T. -0.02 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Tgt Ion:	252	Resp:	395320
Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	13.6	13.1	19.7

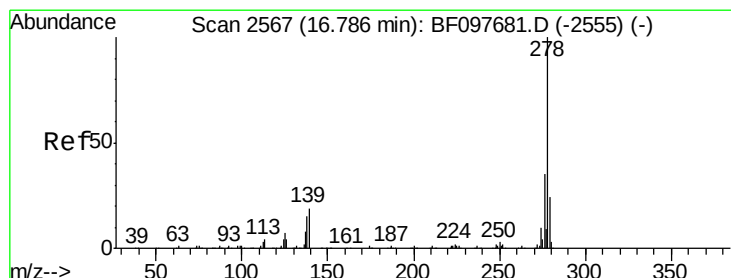
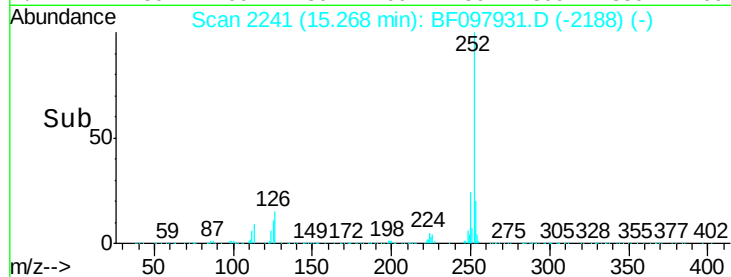
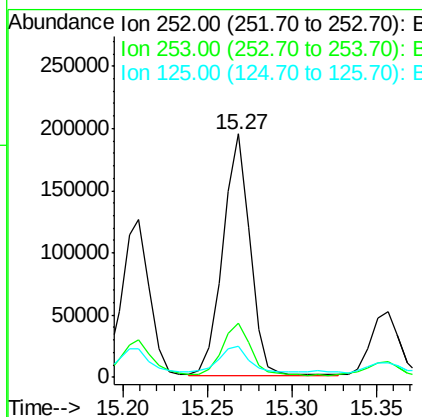
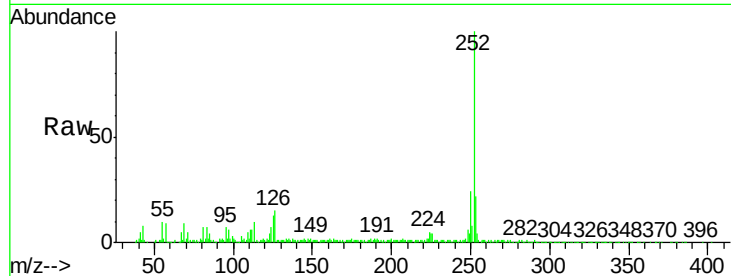




#89
Benzo(a)pyrene
Concen: 24.78 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.01 min
Lab File: BF097931.D
Acq: 22 Aug 2017 3:17

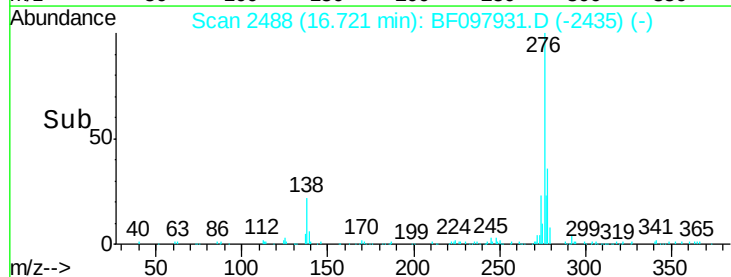
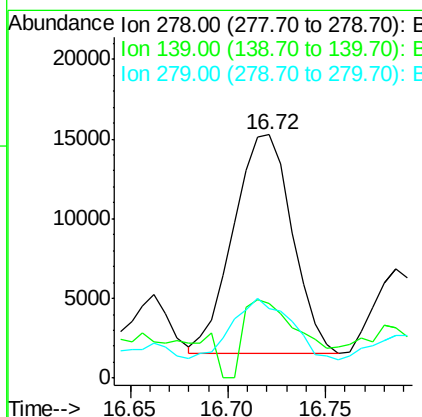
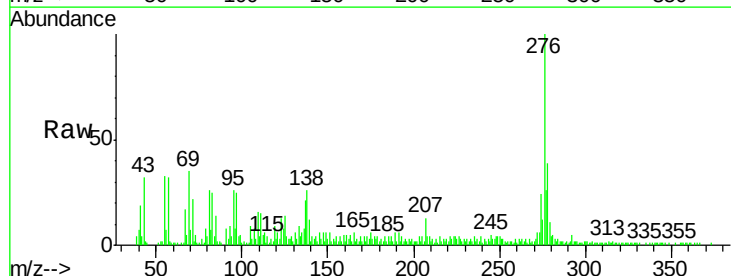
Instrument :
BNA_F
ClientSampleId :
NB-08-081817-B

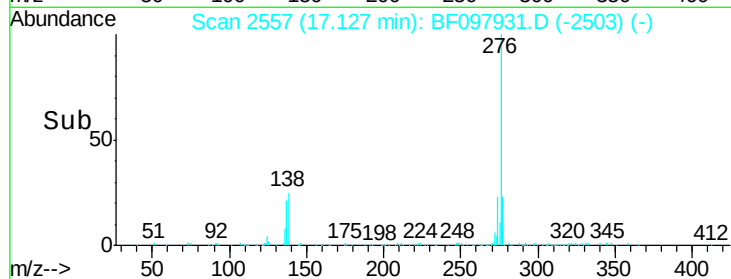
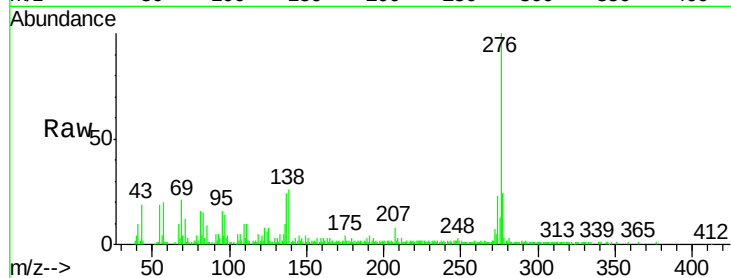
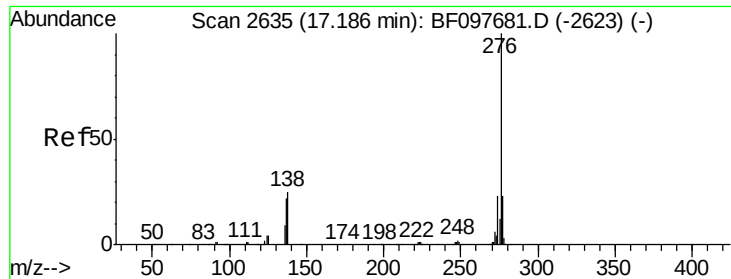
Tot Ion:252 Resp: 216600
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 12.9 11.0 16.4



#90
Dibenzo(a,h)anthracene
Concen: 4.03 ng
RT: 16.72 min Scan# 2488
Delta R.T. 0.01 min
Lab File: BF097931.D
Acq: 22 Aug 2017 3:17

Tgt Ion:278 Resp: 28660
Ion Ratio Lower Upper
278 100
139 36.7 16.6 24.8#
279 28.6 19.3 28.9





#91

Benzo(a,h,i)perylene

Concen: 16.73 ng

RT: 17.13 min Scan# 2557

Delta R.T. 0.02 min

Lab File: BF097931.D

Acq: 22 Aug 2017 3:17

Instrument :

BNA_F

ClientSampleId :

NB-08-081817-B

Tot Ion:276 Resp: 124244

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 26.3 25.4 38.0

