

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051719\
 Data File : BF114374.D
 Acq On : 18 May 2019 2:55
 Operator : JU/SJ
 Sample : K2894-06
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 18 05:09:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	215491	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	841986	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	382954	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	702244	20.00	ng	0.00
76) Chrysene-d12	14.02	240	483317	20.00	ng	0.00
87) Perylene-d12	15.49	264	391779	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	805232	60.13	ng	0.00
7) Phenol-d6	6.49	99	1053469	66.52	ng	0.00
23) Nitrobenzene-d5	7.40	82	329310	21.95	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	125072	31.59	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	1217032	48.07	ng	0.00
79) Terphenyl-d14	12.96	244	1107586	47.24	ng	0.00

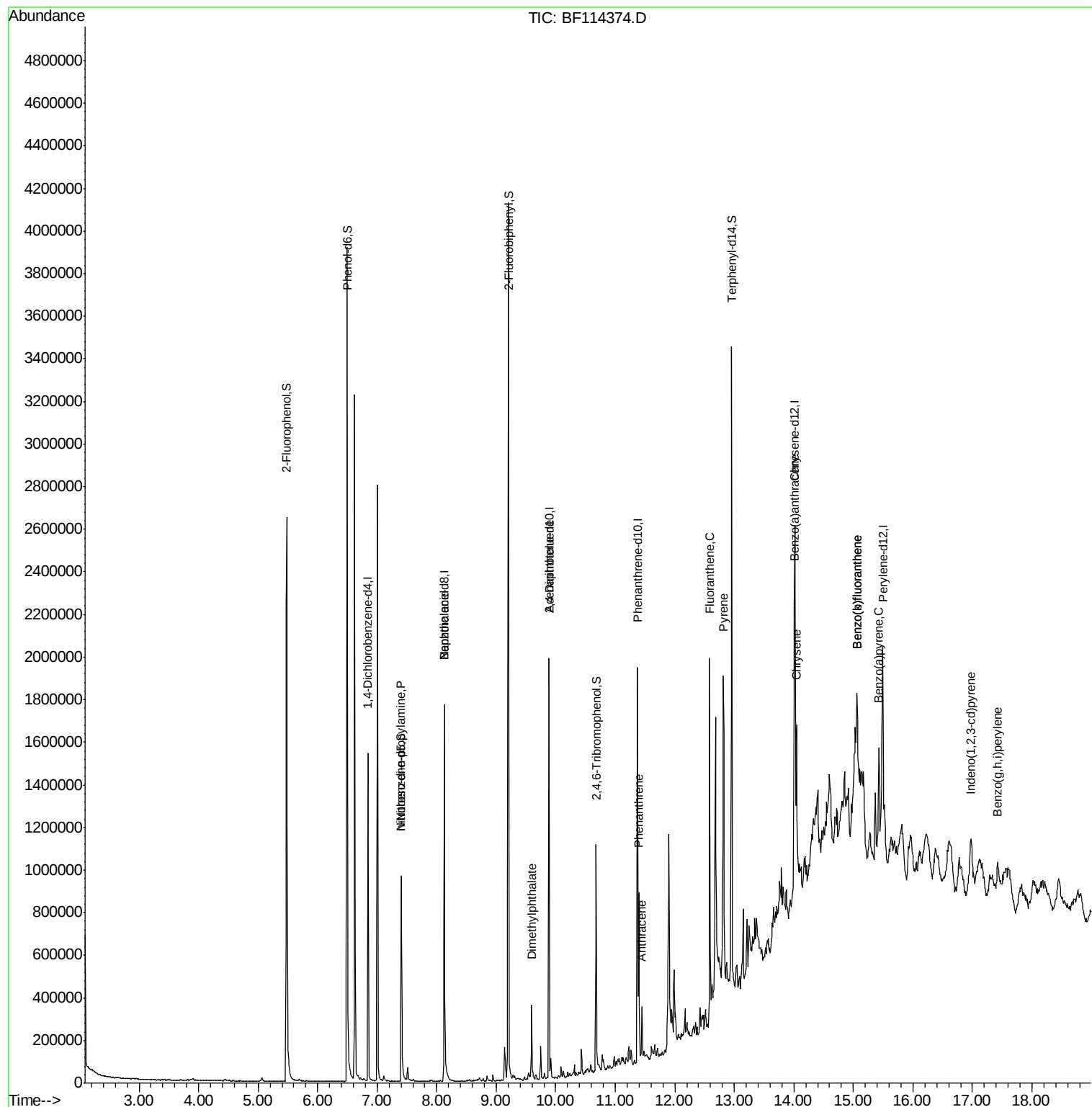
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	44568	4.440	ng	# 74
32) Benzoic acid	8.13	122	132	7.034	ng	# 1
50) Dimethylphthalate	9.59	163	148077	5.267	ng	99
57) 2,4-Dinitrotoluene	9.89	165	50146	5.925	ng	# 25
71) Phenanthrene	11.40	178	304321	8.907	ng	97
72) Anthracene	11.45	178	109235	3.183	ng	96
75) Fluoranthene	12.59	202	683153	18.568	ng	98
78) Pyrene	12.82	202	601790	15.478	ng	97
81) Benzo(a)anthracene	14.00	228	346505	11.084	ng	99
83) Chrysene	14.05	228	297093	9.695	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	106417	3.929	ng	98
88) Benzo(b)fluoranthene	15.06	252	425512	16.953	ng	# 95
89) Benzo(k)fluoranthene	15.06	252	425512	18.455	ng	# 96
90) Benzo(a)pyrene	15.43	252	225471	10.207	ng	# 93
92) Benzo(a,h,i)perylene	17.43	276	93667	5.092	ng	# 94

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

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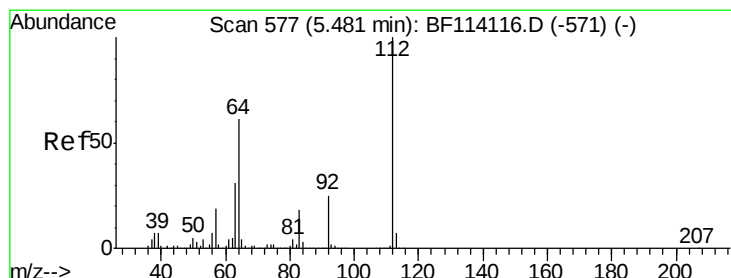
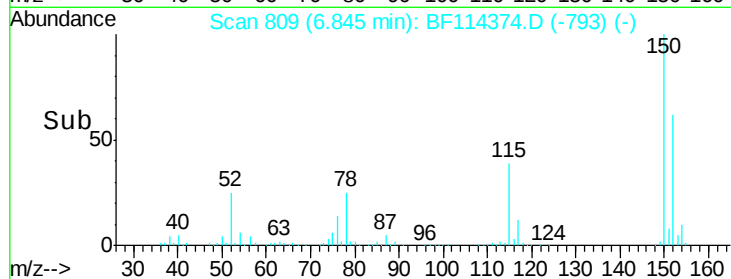
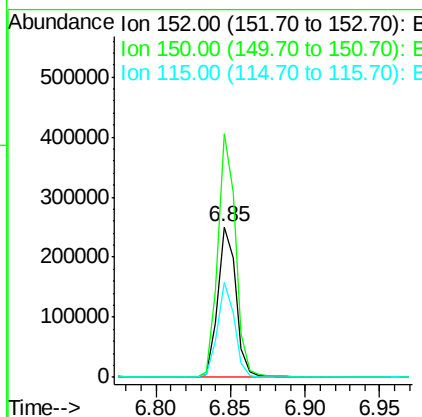
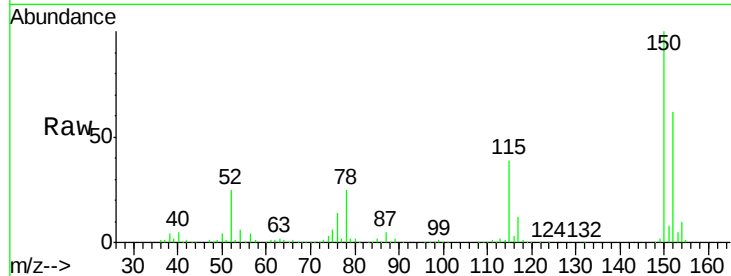


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF114374.D
Acq: 18 May 2019 2:55

Instrument :
BNA_F
ClientSampleId :

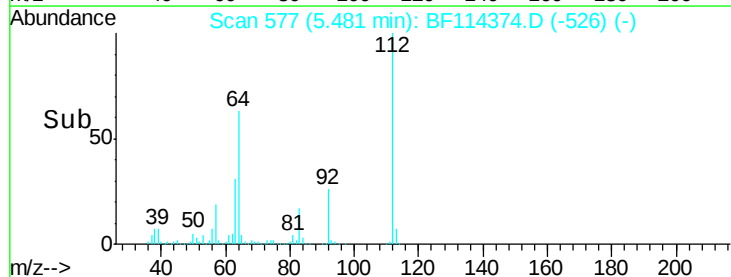
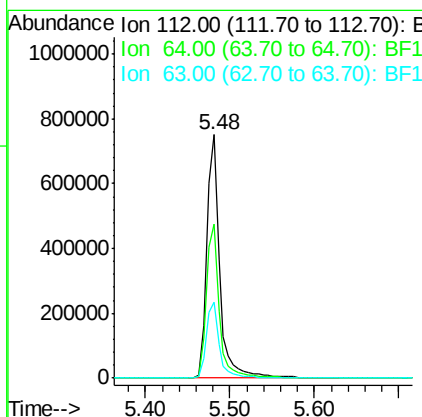
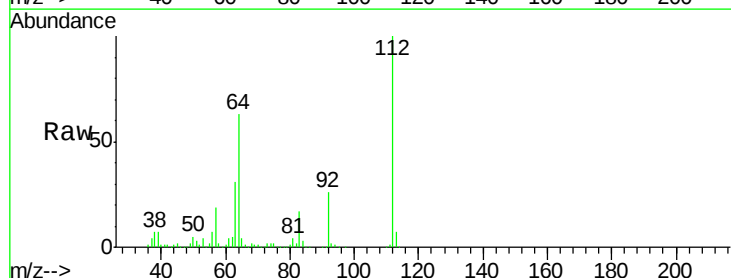
Tot Ion	Ratio	Lower	Upper
152	100		
150	161.8	124.3	186.5
115	63.3	49.1	73.7



#5

2-Fluorophenol
Concen: 60.134 ng
RT: 5.48 min Scan# 577
Delta R.T. 0.00 min
Lab File: BF114374.D
Acq: 18 May 2019 2:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.0	49.0	73.6
63	31.0	24.6	37.0





#7

Phenol-d6

Concen: 66.517 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

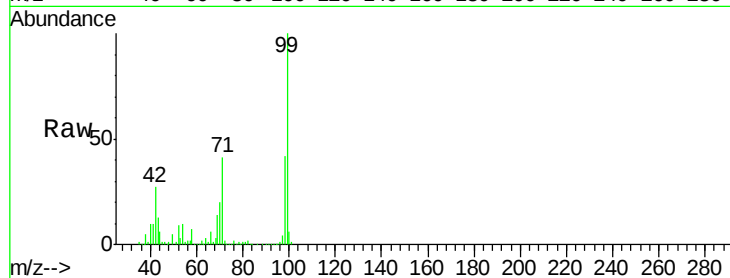
Tot Ion: 99 Resp: 1053469

Ion Ratio Lower Upper

99 100

42 26.6 17.9 26.9

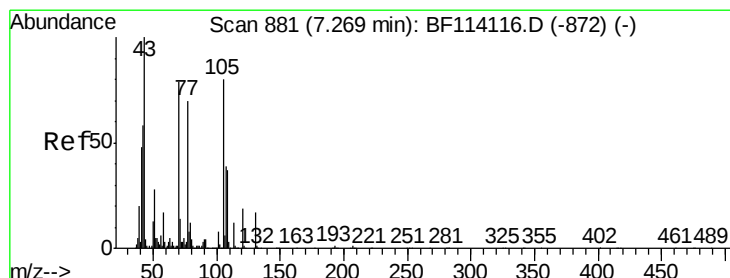
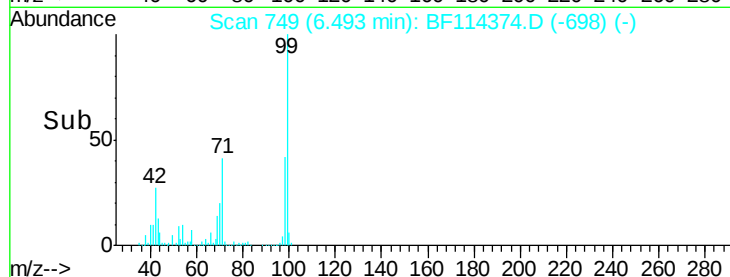
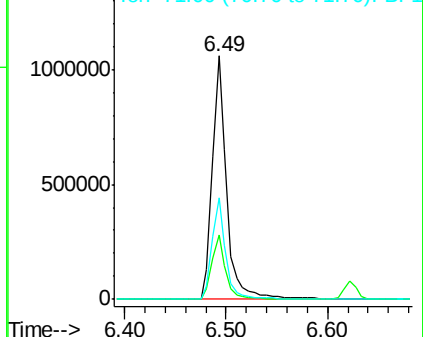
71 41.5 26.2 39.2#



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 4.440 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Tgt Ion: 70 Resp: 44568

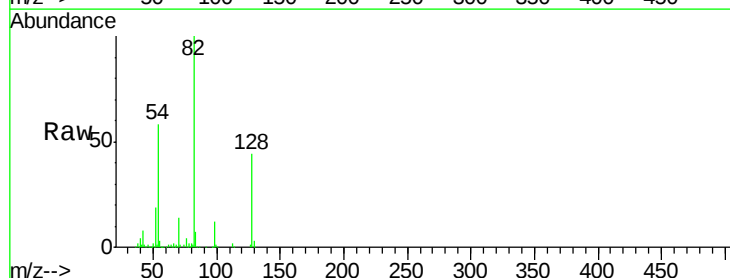
Ion Ratio Lower Upper

70 100

42 54.7 58.6 87.8#

101 0.0 7.8 11.8#

130 1.7 17.1 25.7#

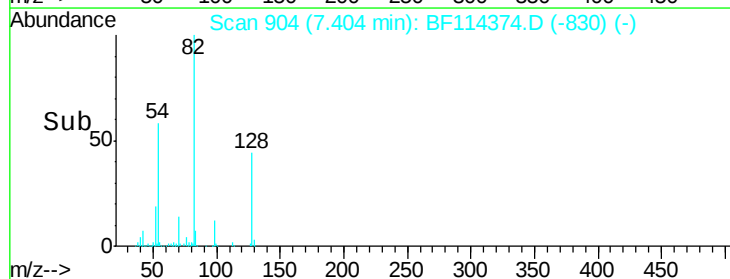
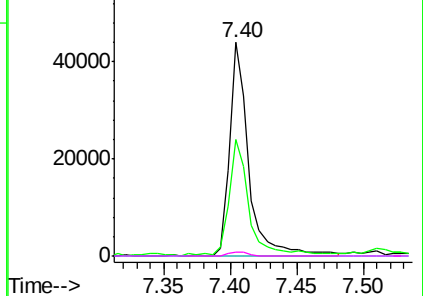


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 841986

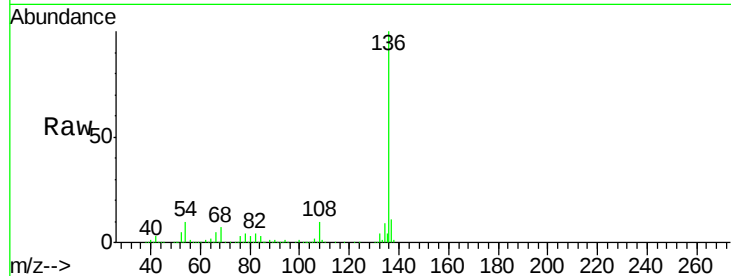
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 9.9 7.8 11.8

68 6.9 5.1 7.7

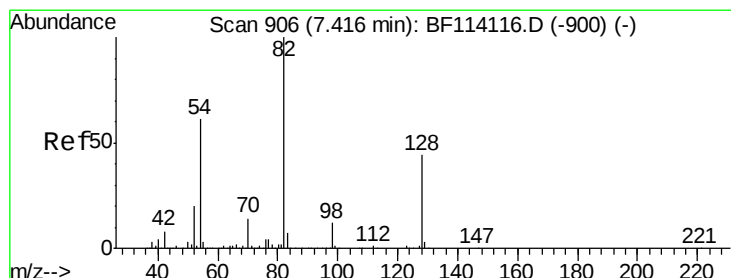
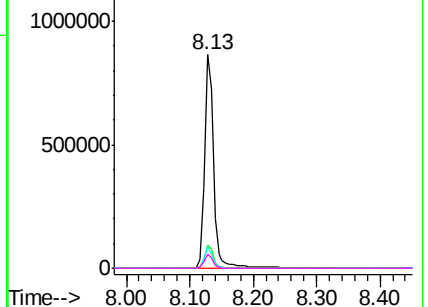
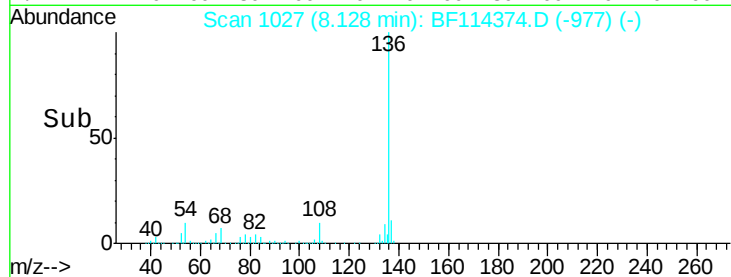


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 21.949 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

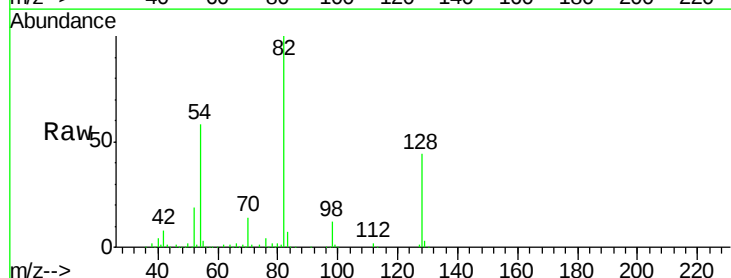
Tgt Ion: 82 Resp: 329310

Ion Ratio Lower Upper

82 100

128 44.0 35.5 53.3

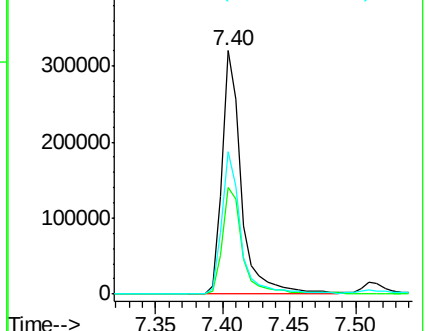
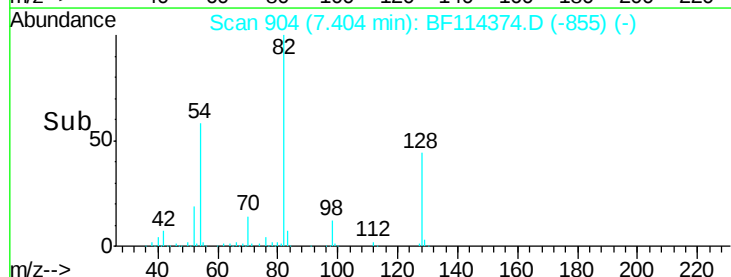
54 58.4 48.5 72.7

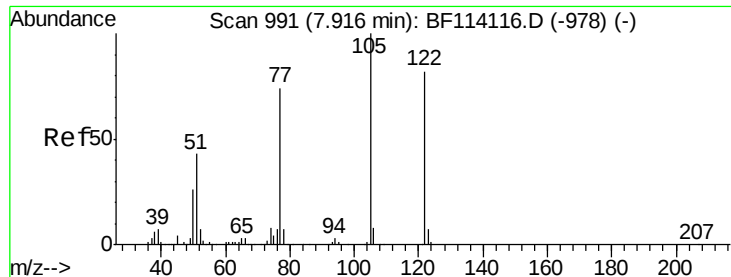


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#32

Benzoic acid

Concen: 7.034 ng

RT: 8.13 min Scan# 1027

Delta R.T. 0.21 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampled :

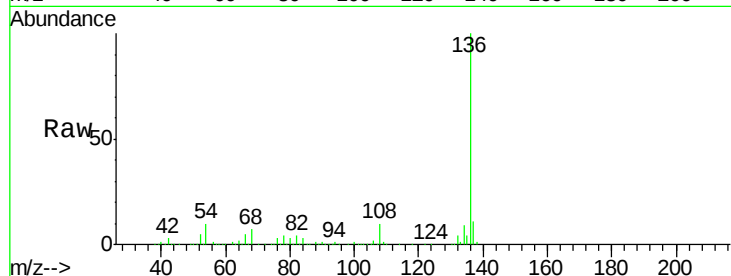
Tot Ion:122 Resp: 132

Ion Ratio Lower Upper

122 100

105 186.3 99.9 139.9#

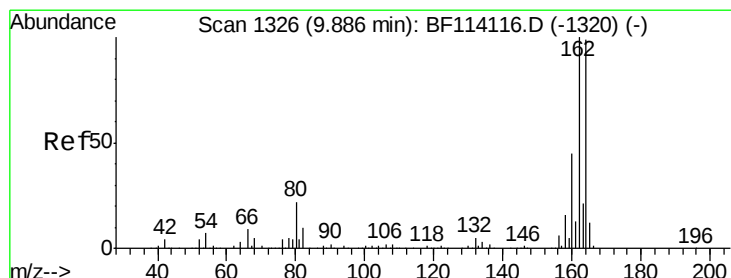
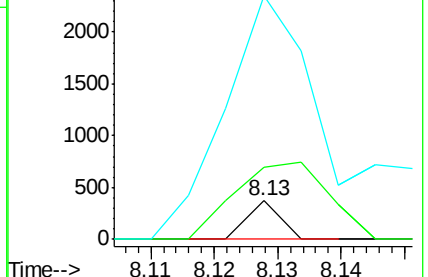
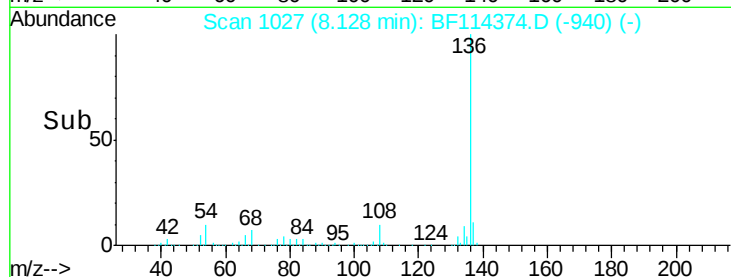
77 630.0 69.4 109.4#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

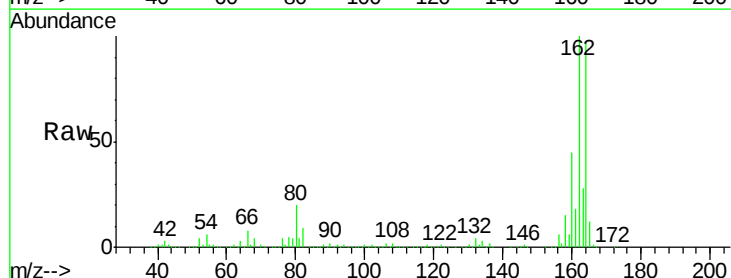
Tgt Ion:164 Resp: 382954

Ion Ratio Lower Upper

164 100

162 103.3 80.6 120.8

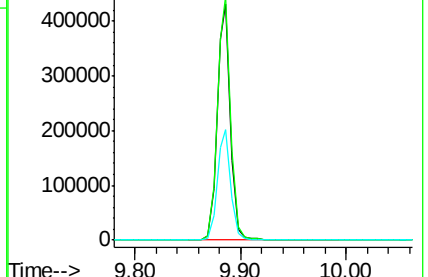
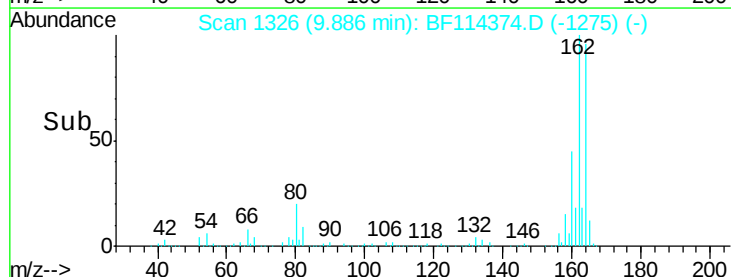
160 46.8 36.5 54.7

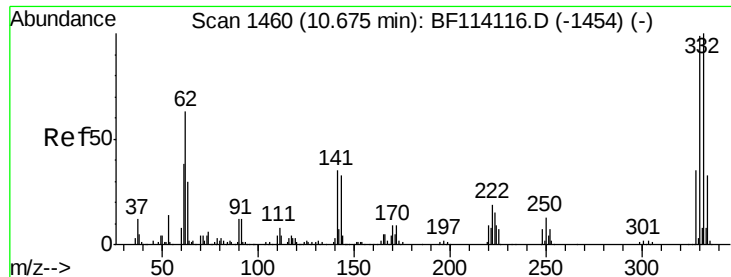


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

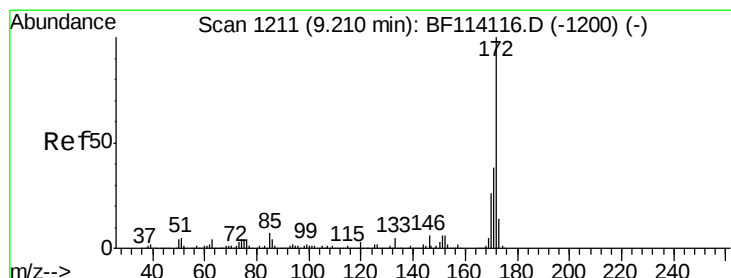
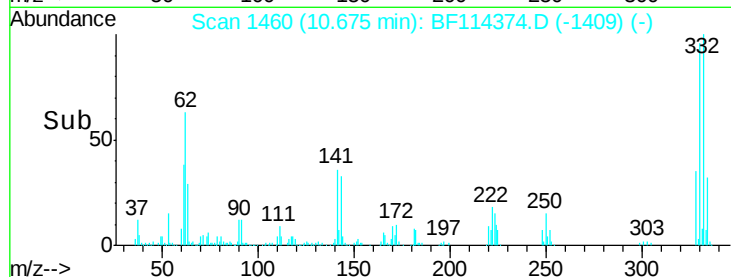
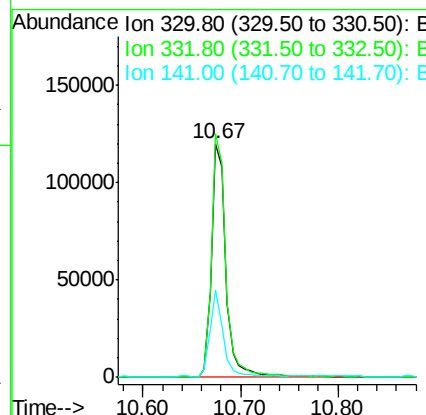
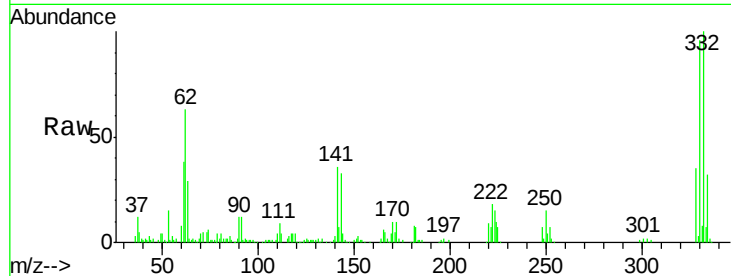




#42
 2,4,6-Tribromophenol
 Concen: 31.591 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. 0.00 min
 Lab File: BF114374.D
 Acq: 18 May 2019 2:55

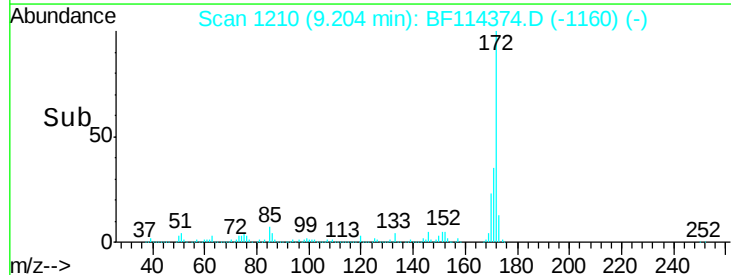
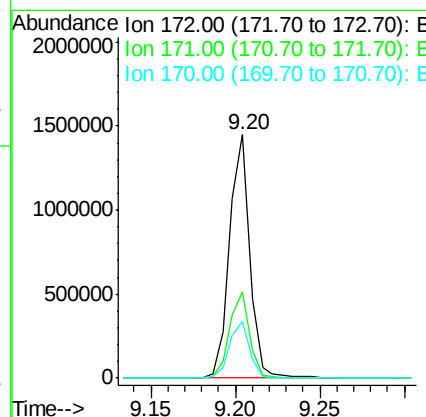
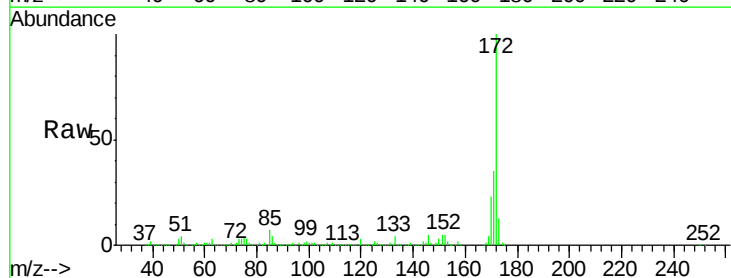
Instrument :
 BNA_F
 ClientSampleId :

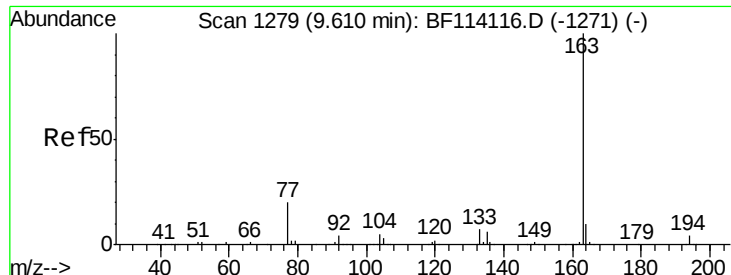
Tot Ion	Ratio	Lower	Upper
330	100		
332	102.4	81.4	122.2
141	33.4	26.6	40.0



#45
 2-Fluorobiphenyl
 Concen: 48.073 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF114374.D
 Acq: 18 May 2019 2:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.7	46.1
170	23.3	20.5	30.7

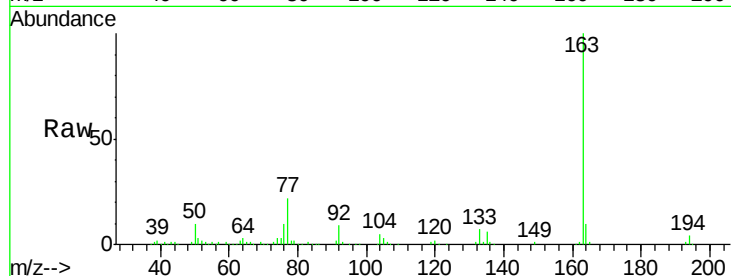




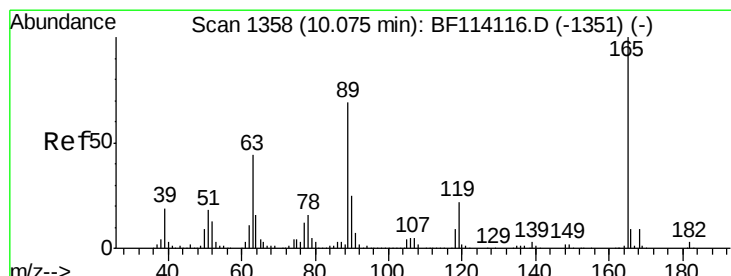
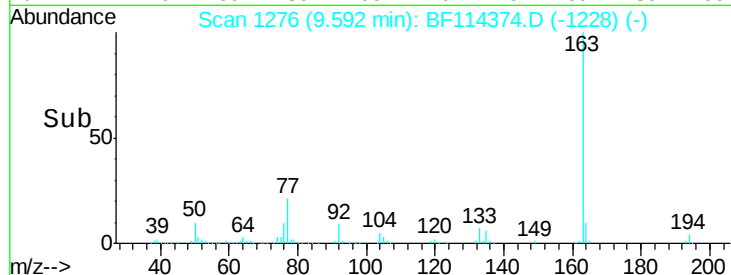
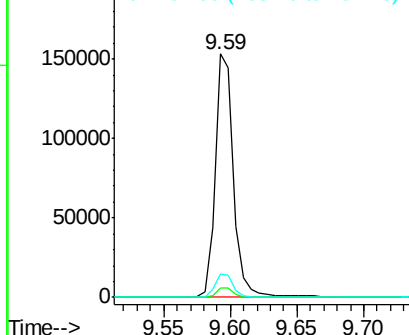
#50
Dimethylphthalate
Concen: 5.267 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF114374.D
Acq: 18 May 2019 2:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 148077
Ion Ratio Lower Upper
163 100
194 4.1 3.4 5.0
164 9.7 8.2 12.2

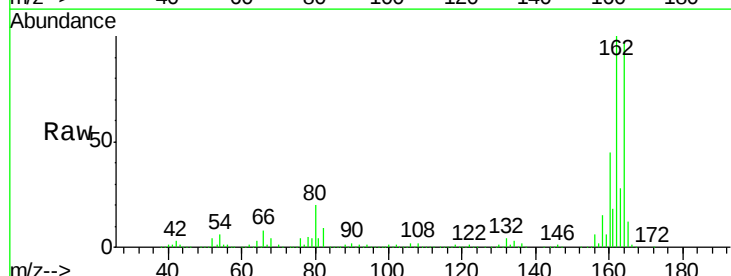


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

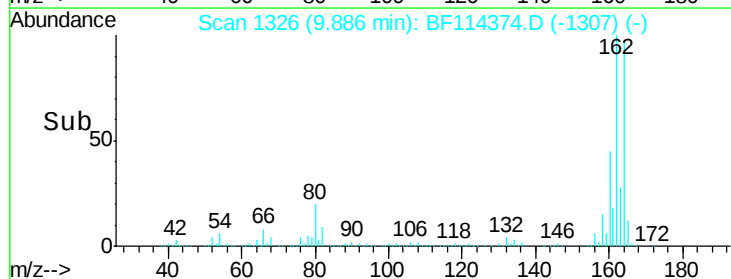
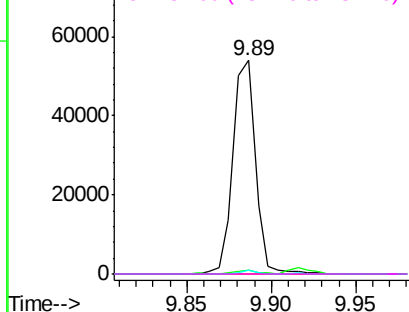


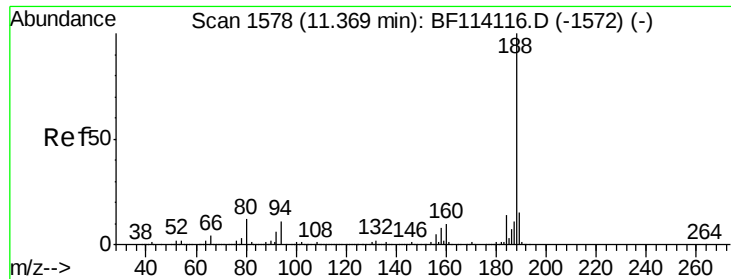
#57
2,4-Dinitrotoluene
Concen: 5.925 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.19 min
Lab File: BF114374.D
Acq: 18 May 2019 2:55

Tgt Ion:165 Resp: 50146
Ion Ratio Lower Upper
165 100
63 1.6 35.5 53.3#
89 1.6 55.2 82.8#
182 0.0 2.2 3.2#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

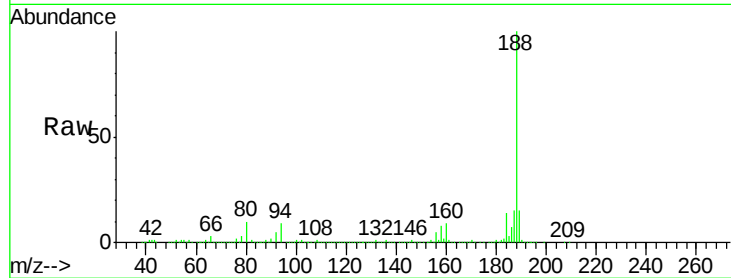




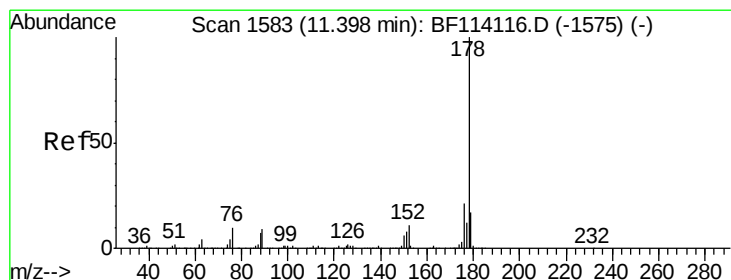
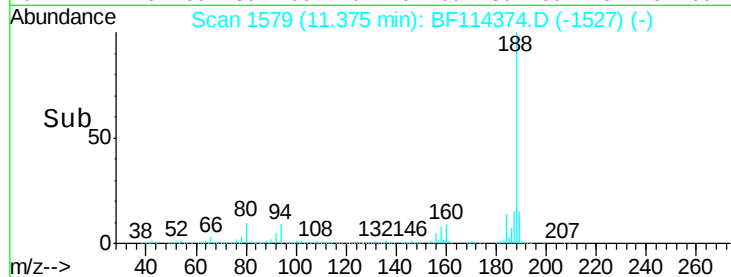
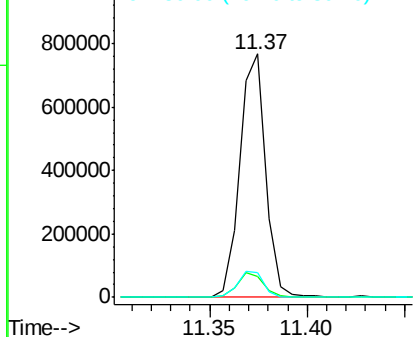
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.01 min
Lab File: BF114374.D
Acq: 18 May 2019 2:55

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 702244
Ion Ratio Lower Upper
188 100
94 8.7 8.4 12.6
80 10.0 9.2 13.8

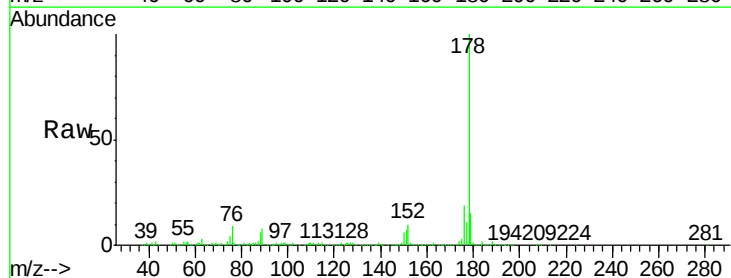


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

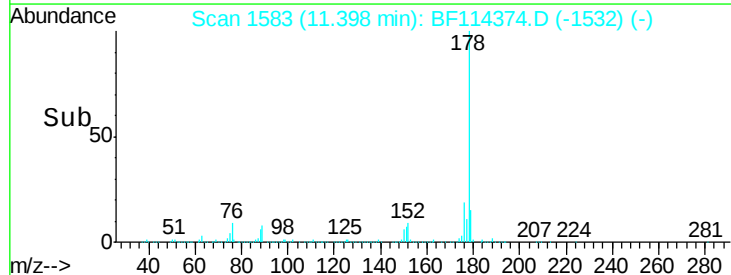
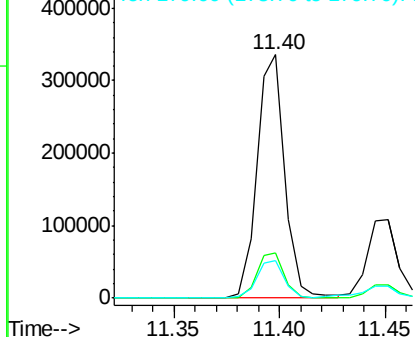


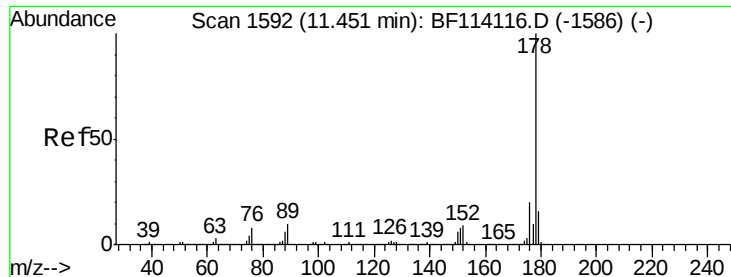
#71
Phenanthrene
Concen: 8.907 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.00 min
Lab File: BF114374.D
Acq: 18 May 2019 2:55

Tgt Ion:178 Resp: 304321
Ion Ratio Lower Upper
178 100
176 18.7 16.4 24.6
179 15.4 13.2 19.8



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





#72

Anthracene

Concen: 3.183 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

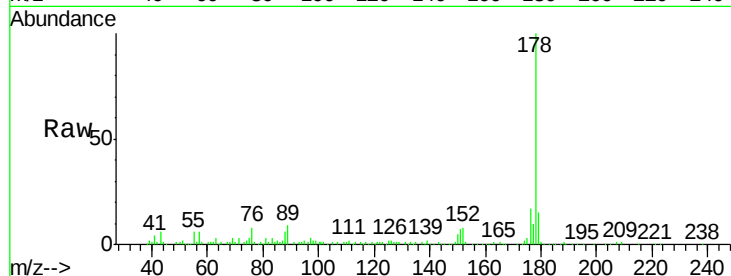
Tot Ion:178 Resp: 109235

Ion Ratio Lower Upper

178 100

176 17.4 15.8 23.8

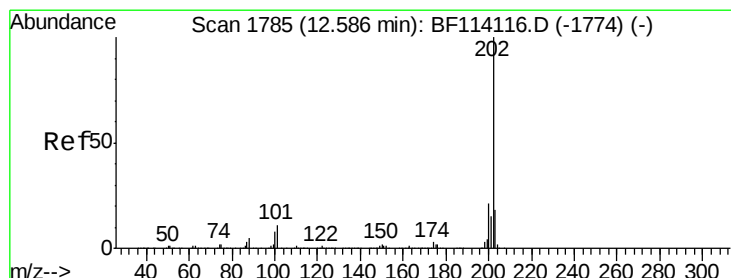
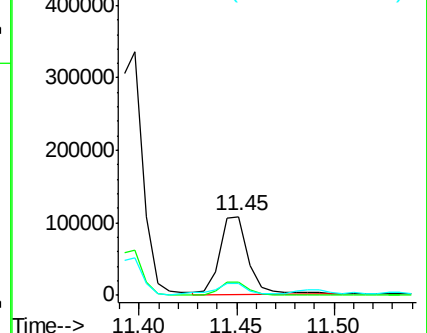
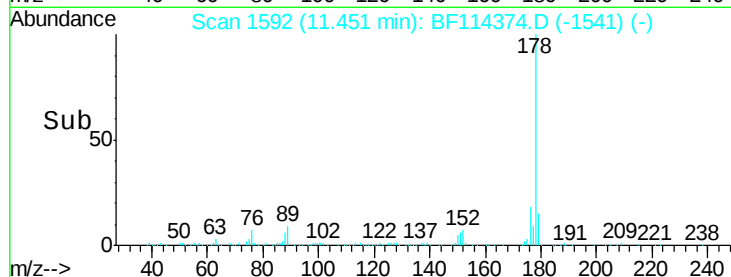
179 15.3 13.0 19.4



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



#75

Fluoranthene

Concen: 18.568 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

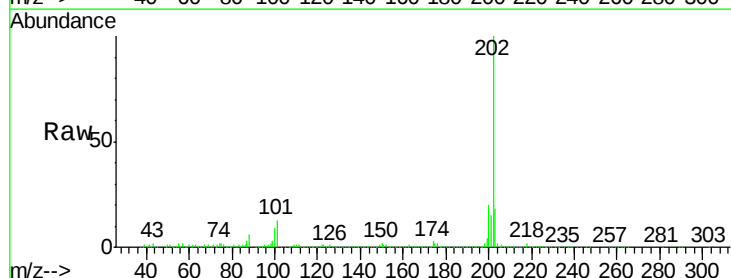
Tgt Ion:202 Resp: 683153

Ion Ratio Lower Upper

202 100

101 12.7 0.0 31.0

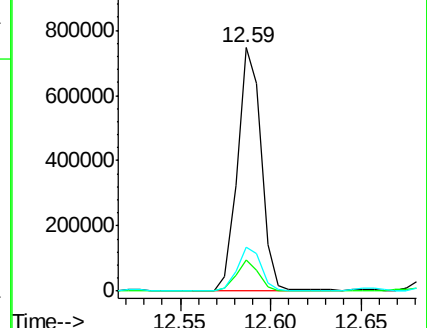
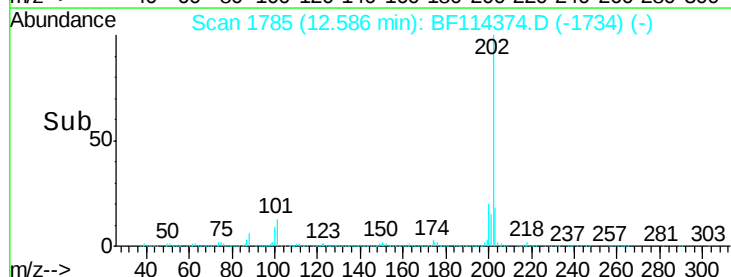
203 17.9 0.0 38.4

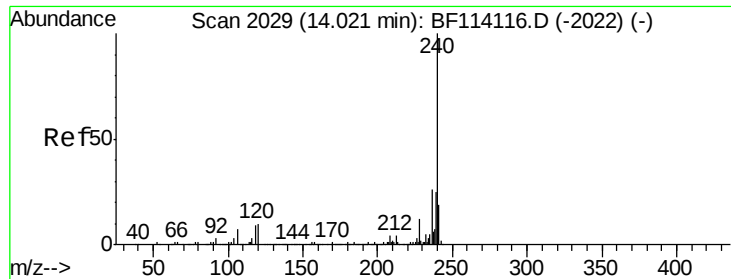


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

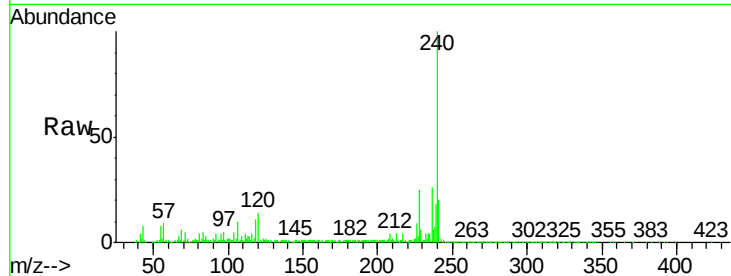
Tot Ion:240 Resp: 483317

Ion Ratio Lower Upper

240 100

120 14.2 8.3 12.5#

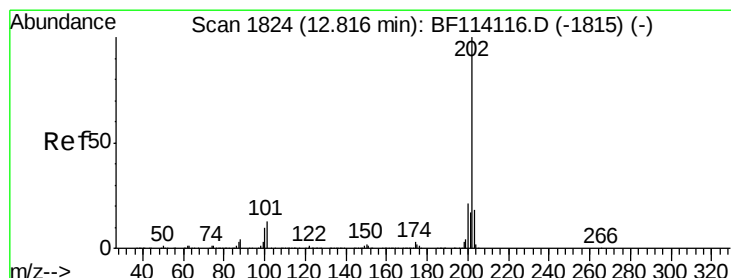
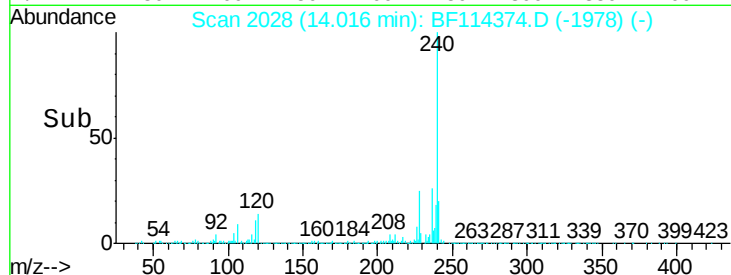
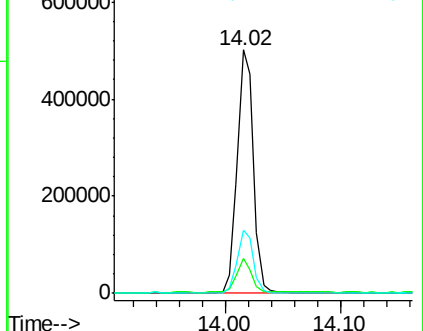
236 25.8 20.8 31.2



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



#78

Pyrene

Concen: 15.478 ng

RT: 12.82 min Scan# 1824

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

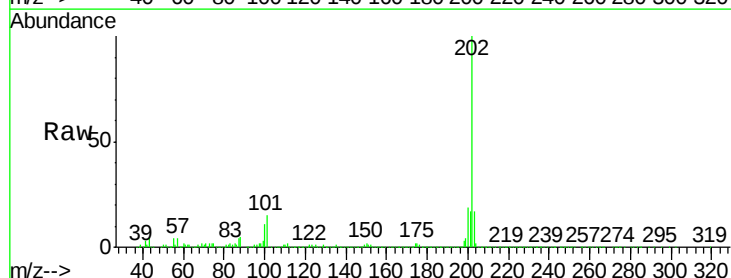
Tgt Ion:202 Resp: 601790

Ion Ratio Lower Upper

202 100

200 19.5 16.9 25.3

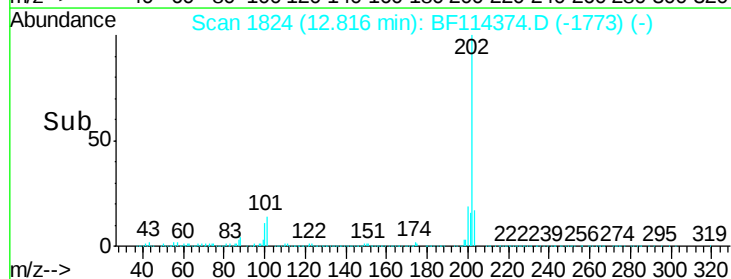
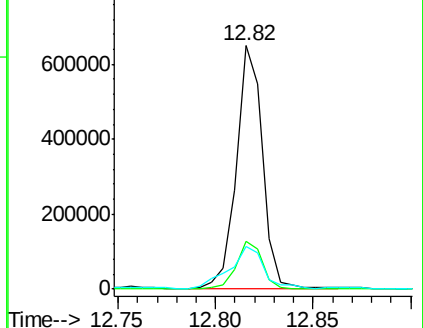
203 17.3 14.5 21.7

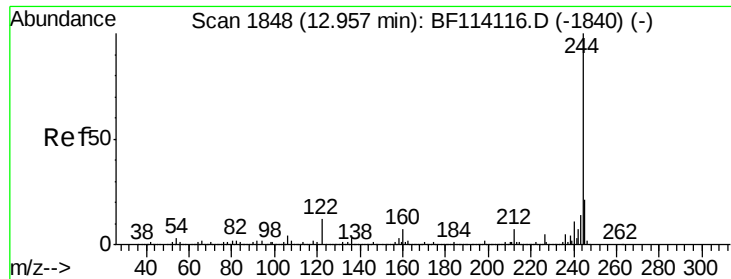


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 47.240 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

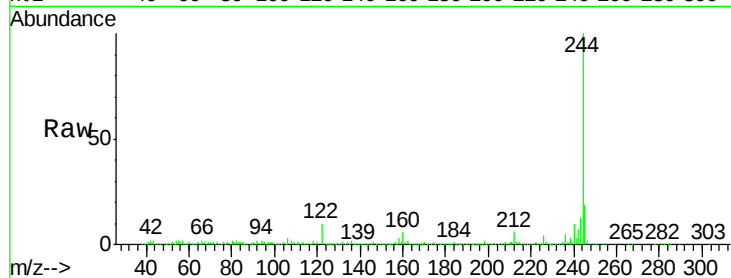
Tot Ion:244 Resp: 1107586

Ion Ratio Lower Upper

244 100

212 6.3 5.8 8.6

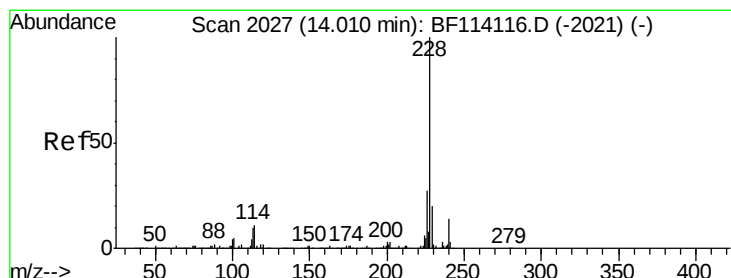
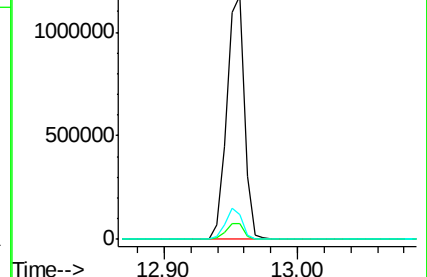
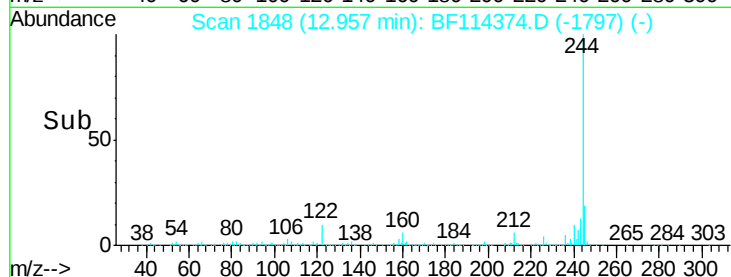
122 10.0 9.4 14.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 11.084 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

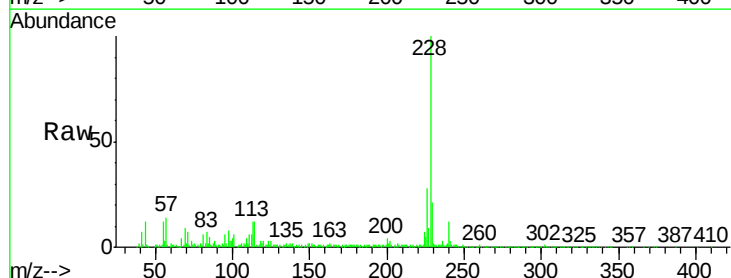
Tgt Ion:228 Resp: 346505

Ion Ratio Lower Upper

228 100

226 27.5 22.2 33.2

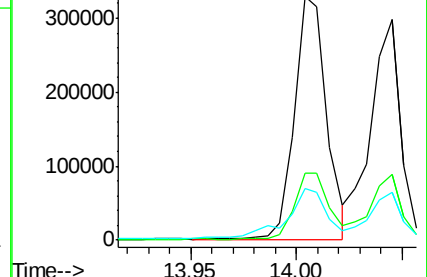
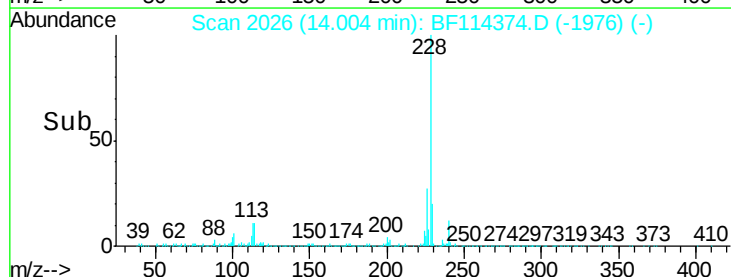
229 21.0 16.4 24.6

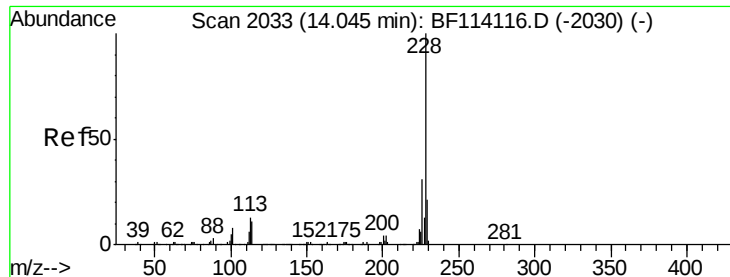


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 9.695 ng

RT: 14.05 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

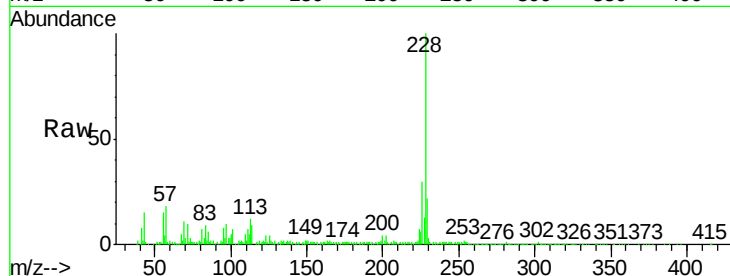
Tot Ion:228 Resp: 297093

Ion Ratio Lower Upper

228 100

226 29.6 25.0 37.6

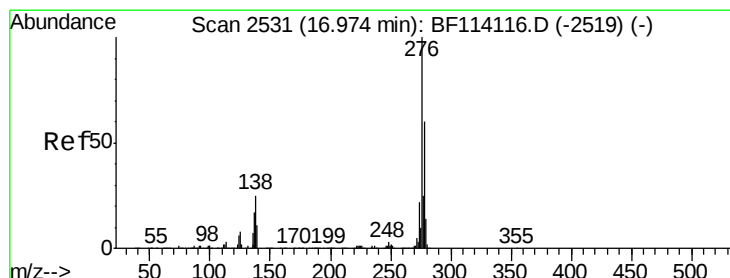
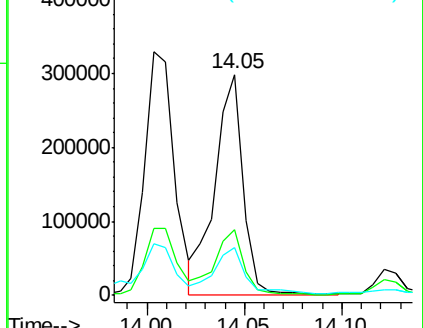
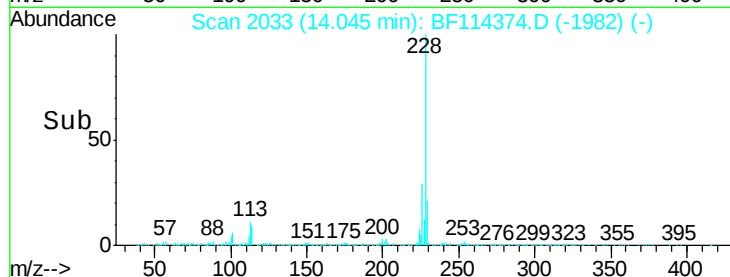
229 21.5 17.0 25.6



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

Indeno(1,2,3-cd)pyrene

Concen: 3.929 ng

RT: 16.97 min Scan# 2531

Delta R.T. 0.00 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

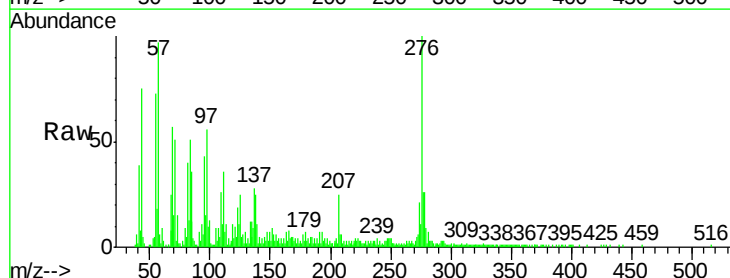
Tgt Ion:276 Resp: 106417

Ion Ratio Lower Upper

276 100

138 24.7 20.2 30.2

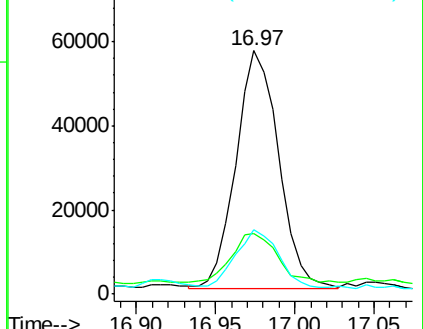
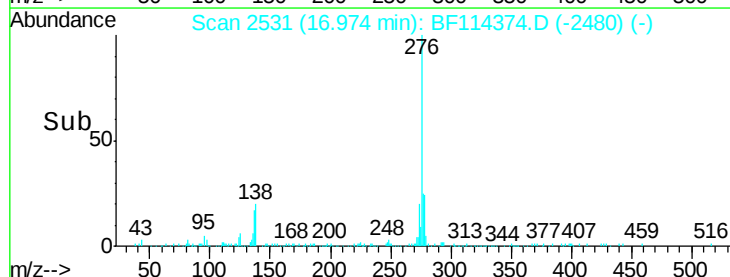
277 23.6 20.0 30.0

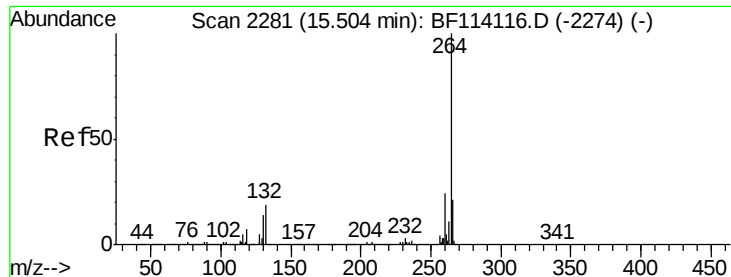


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

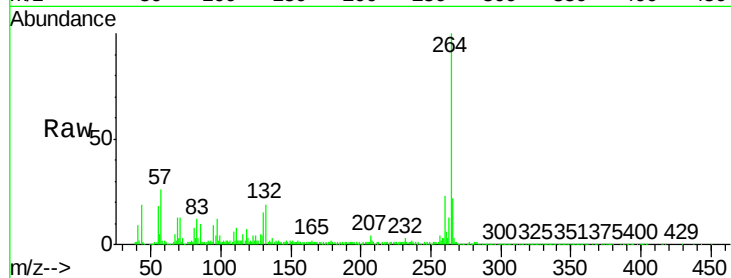
Tot Ion:264 Resp: 391779

Ion Ratio Lower Upper

264 100

260 23.0 19.4 29.0

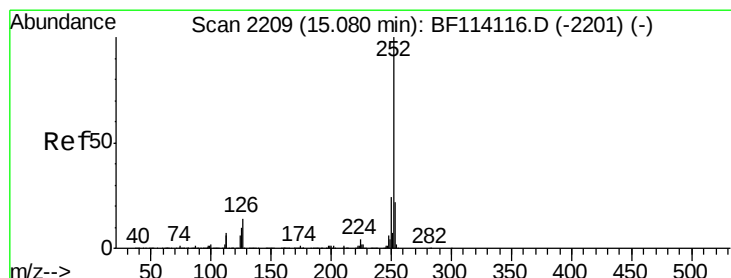
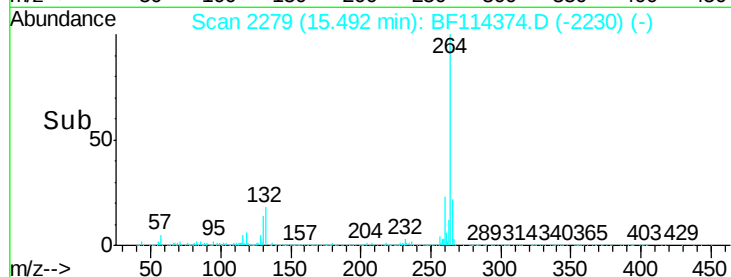
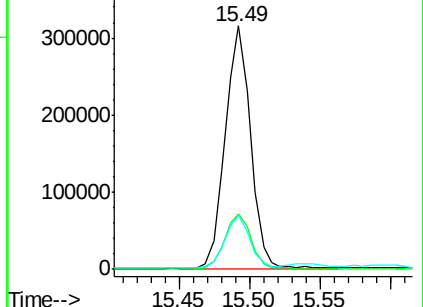
265 22.0 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 16.953 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.02 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

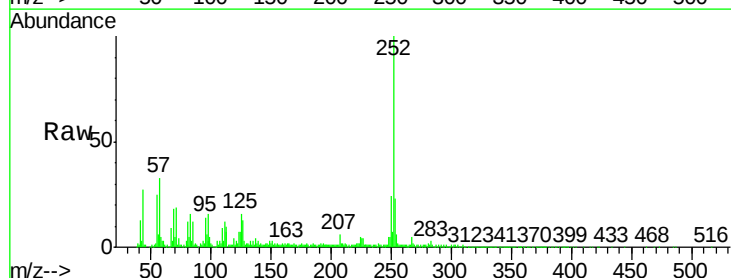
Tgt Ion:252 Resp: 425512

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

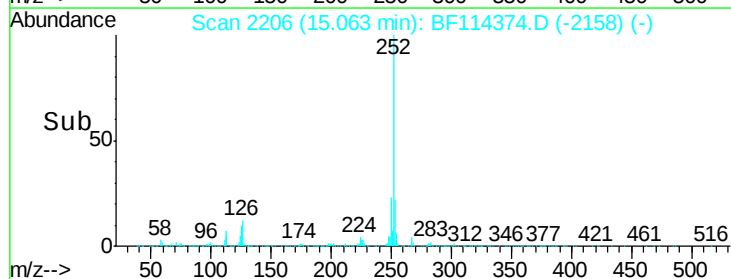
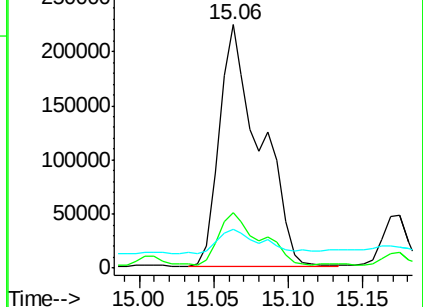
125 15.9 8.3 12.5#

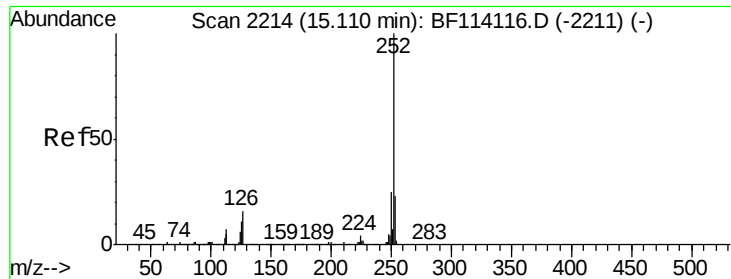


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 18.455 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.05 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

Instrument :

BNA_F

ClientSampleId :

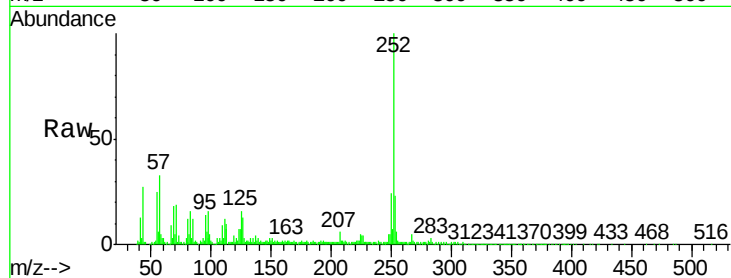
Tot Ion:252 Resp: 425512

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.2

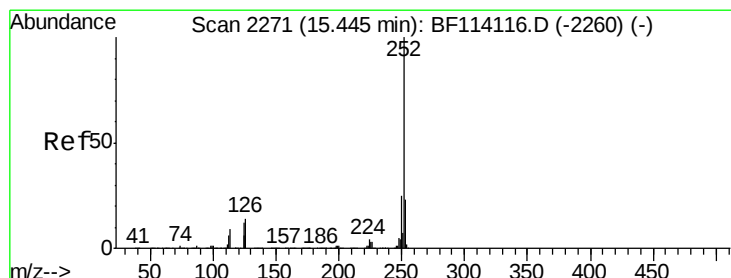
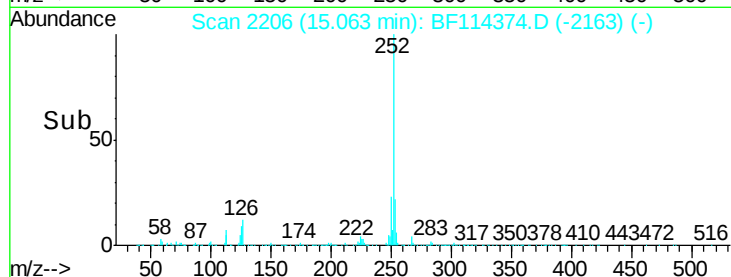
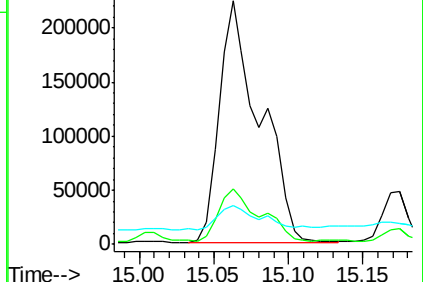
125 15.9 8.6 13.0#



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

Benzo(a)pyrene

Concen: 10.207 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.02 min

Lab File: BF114374.D

Acq: 18 May 2019 2:55

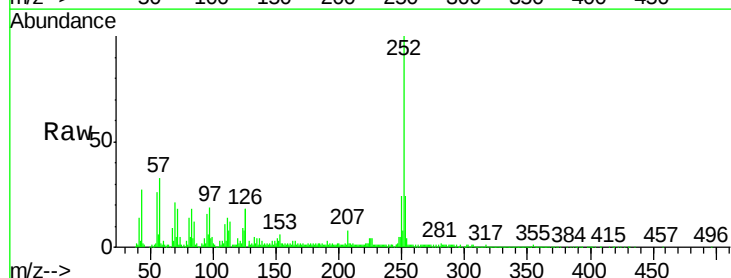
Tgt Ion:252 Resp: 225471

Ion Ratio Lower Upper

252 100

253 23.6 18.1 27.1

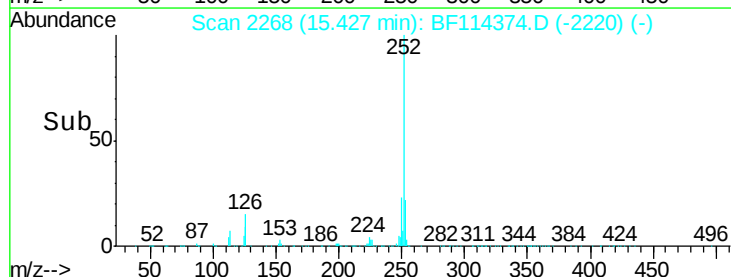
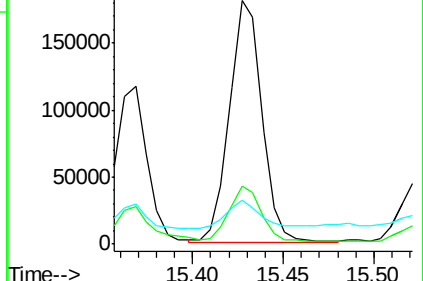
125 18.1 9.5 14.3#

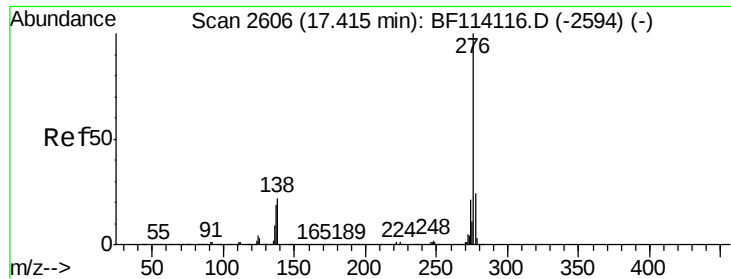


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 5.092 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. 0.01 min
 Lab File: BF114374.D
 Acq: 18 May 2019 2:55

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.7	19.0	28.4	
138	27.3	17.8	26.6	

