

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
 Data File : BF111950.D
 Acq On : 9 Jan 2019 15:38
 Operator : JU/SJ
 Sample : K1006-03 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 10 01:52:11 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 07 14:33:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	138191	20.00	ng	-0.01
21) Naphthalene-d8	8.17	136	512675	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	247903	20.00	ng	-0.01
64) Phenanthrene-d10	11.41	188	380037	20.00	ng	0.00
76) Chrysene-d12	14.05	240	328623	20.00	ng	0.00
87) Perylene-d12	15.54	264	252121	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	436254	54.01	ng	0.00
7) Phenol-d6	6.52	99	567533	54.51	ng	-0.01
23) Nitrobenzene-d5	7.44	82	353752	36.88	ng	-0.02
42) 2,4,6-Tribromophenol	10.71	330	138177	42.85	ng	-0.01
45) 2-Fluorobiphenyl	9.24	172	598648	35.21	ng	-0.01
79) Terphenyl-d14	12.99	244	429937	24.83	ng	0.00

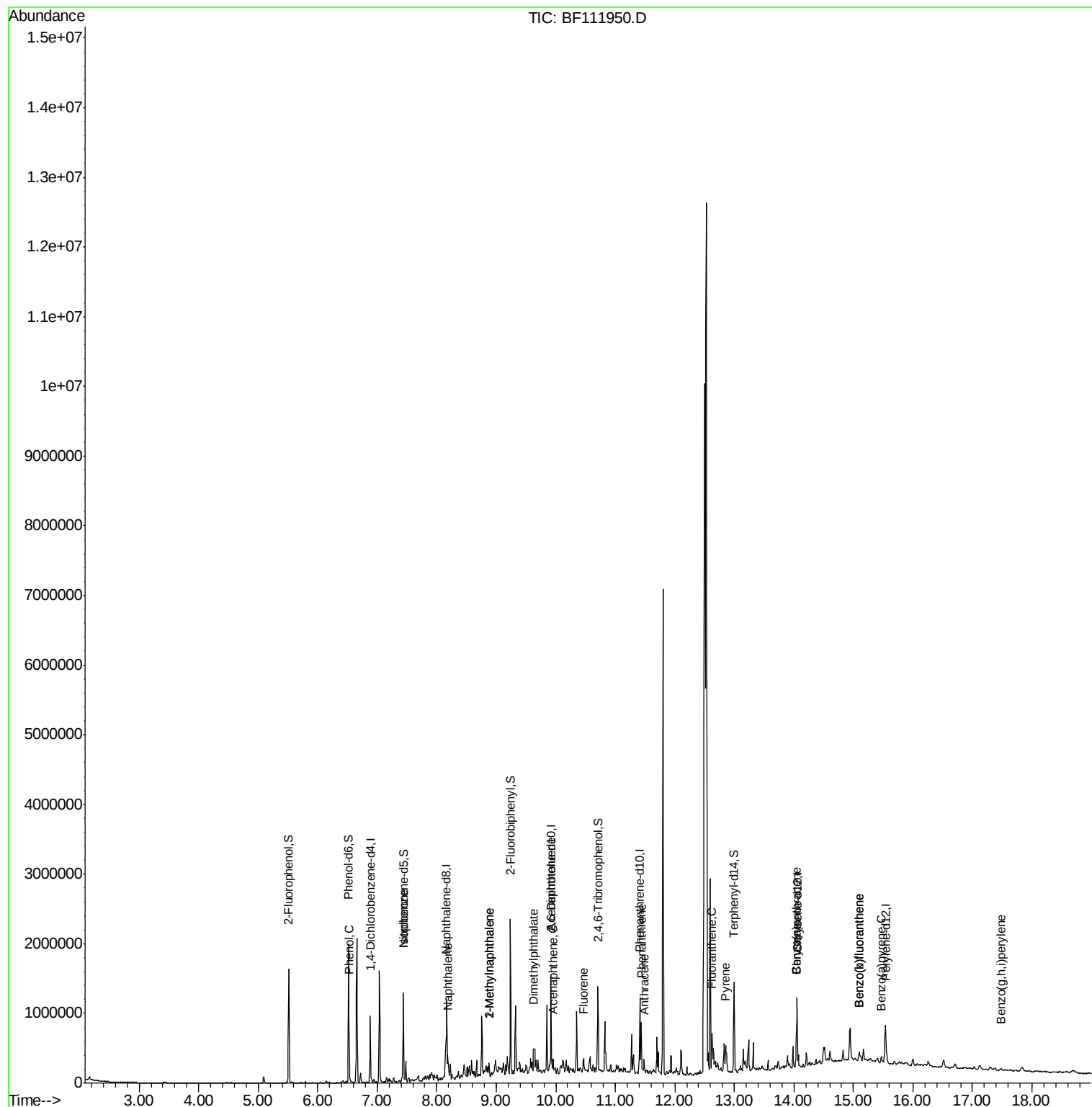
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.41	77	738	Below Cal		# 1
10) Phenol	6.53	94	27018	2.388	ng	# 76
25) Isophorone	7.44	82	346926	22.334	ng	# 65
31) Naphthalene	8.19	128	110560	4.543	ng	98
37) 2-Methylnaphthalene	8.88	142	47889	3.176	ng	96
38) 1-Methylnaphthalene	8.88	142	47889	3.311	ng	93
50) Dimethylphthalate	9.63	163	68148	3.659	ng	99
51) 2,6-Dinitrotoluene	9.92	165	36573	8.782	ng	# 26
52) Acenaphthene	9.95	154	32852	2.118	ng	97
58) Fluorene	10.47	166	41795	2.546	ng	98
71) Phenanthrene	11.43	178	263365	12.962	ng	98
72) Anthracene	11.48	178	76964	3.731	ng	96
75) Fluoranthene	12.62	202	183227	8.784	ng	98
78) Pyrene	12.86	202	158886	7.027	ng	96
81) Benzo(a)anthracene	14.04	228	72939	3.857	ng	99
83) Chrysene	14.04	228	72939	4.045	ng	95
88) Benzo(b)fluoranthene	15.10	252	89764	5.952	ng	# 90
89) Benzo(k)fluoranthene	15.10	252	89764	6.332	ng	# 91
90) Benzo(a)pyrene	15.47	252	45220	3.410	ng	# 93
92) Benzo(a,h,i)perylene	17.48	276	22389	2.146	ng	96

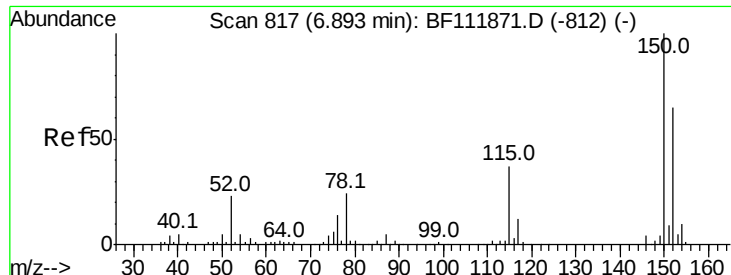
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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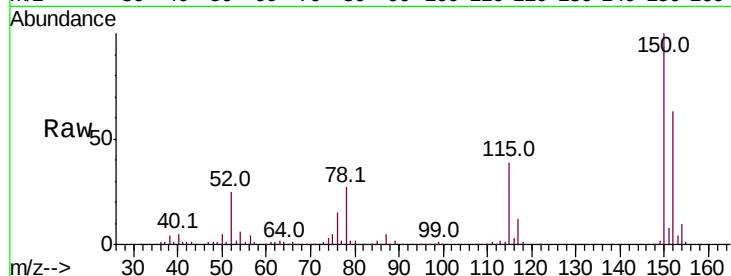


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.6	122.7	184.1
115	62.2	45.2	67.8

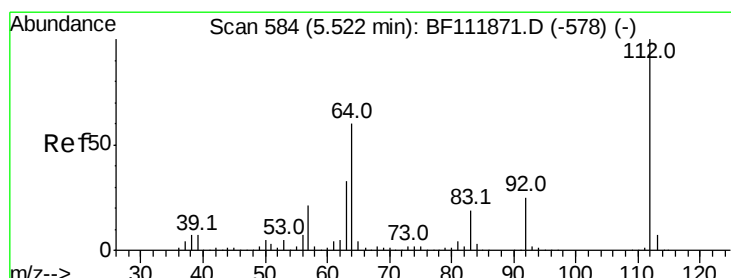
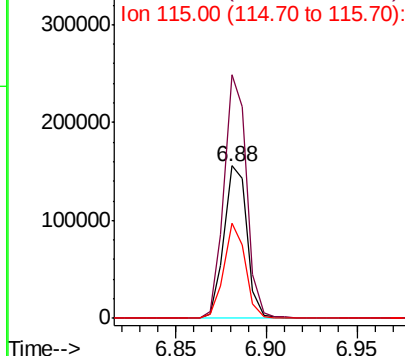
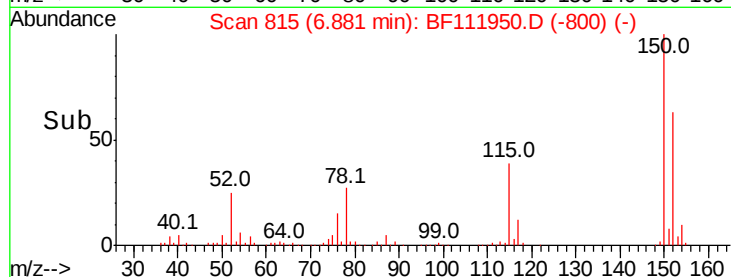


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

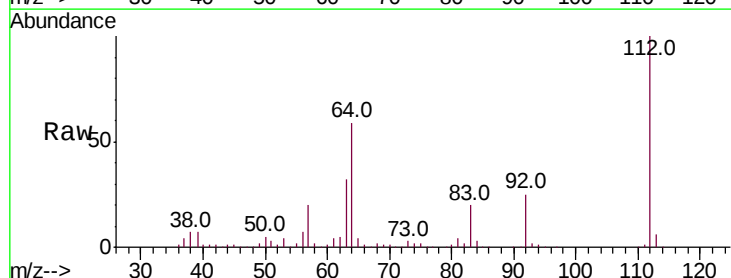
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 54.009 ng
RT: 5.52 min Scan# 583
Delta R.T. -0.01 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.3	48.3	72.5
63	32.3	26.1	39.1

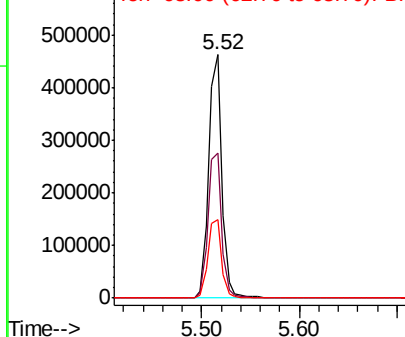
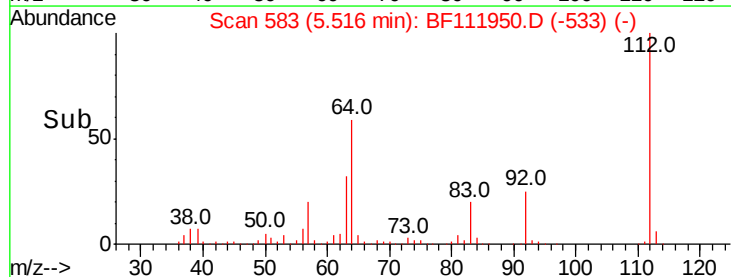


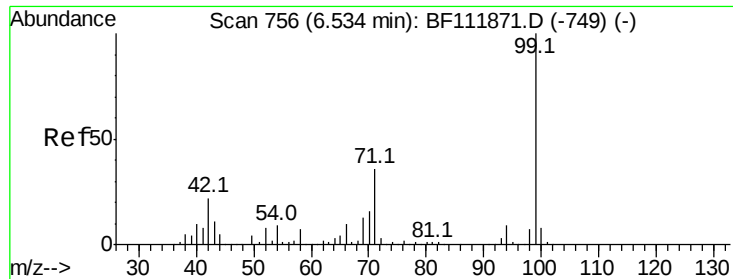
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 54.513 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampleId :

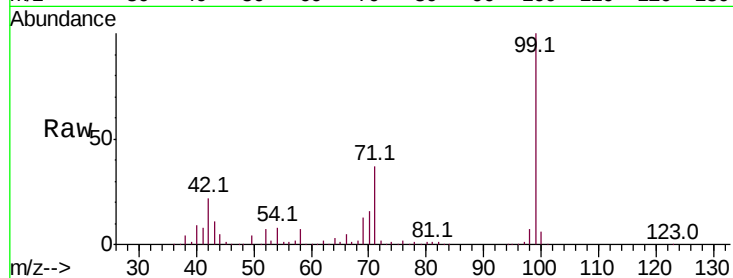
Tot Ion: 99 Resp: 567533

Ion Ratio Lower Upper

99 100

42 21.6 17.9 26.9

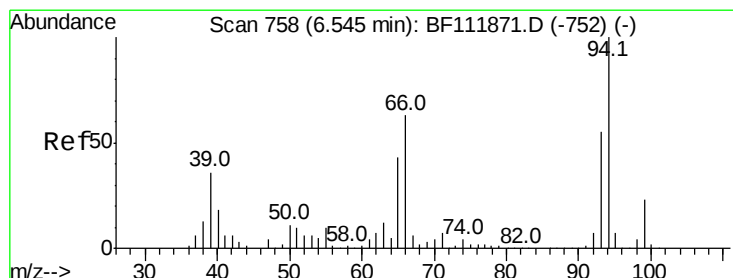
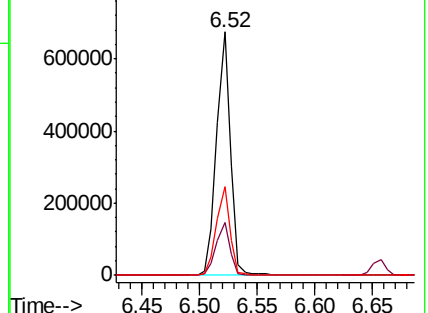
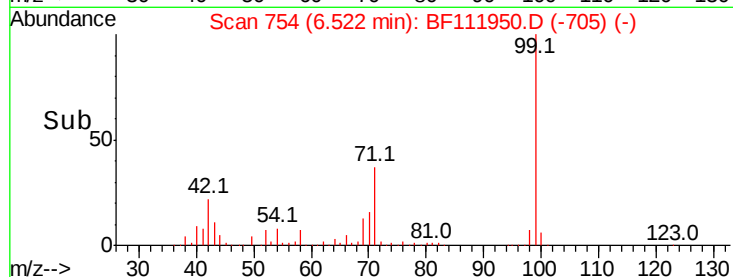
71 36.7 28.7 43.1



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



#10

Phenol

Concen: 2.388 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

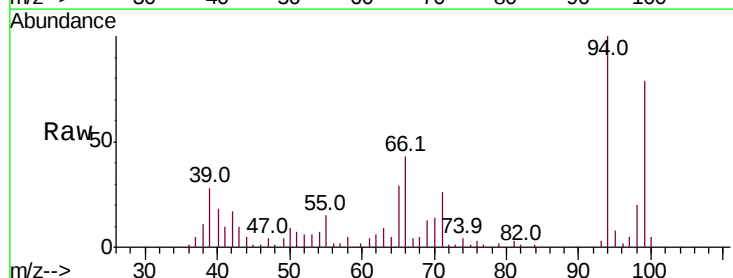
Tgt Ion: 94 Resp: 27018

Ion Ratio Lower Upper

94 100

65 29.0 22.8 62.8

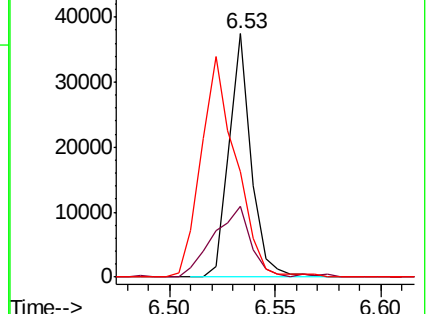
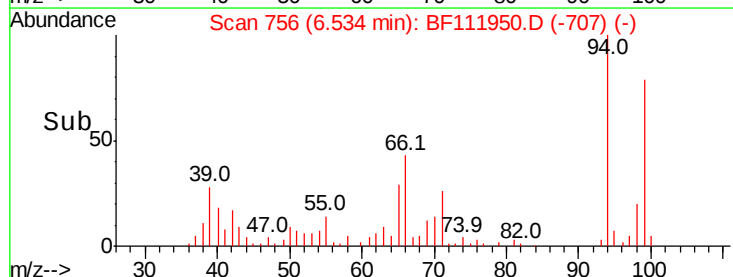
66 43.3 43.3 83.3#



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

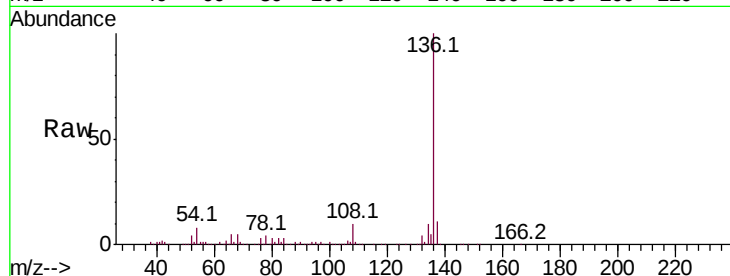




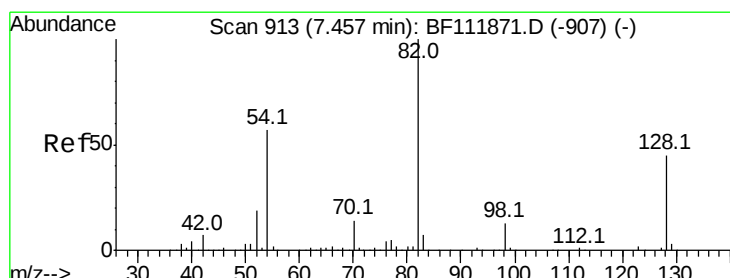
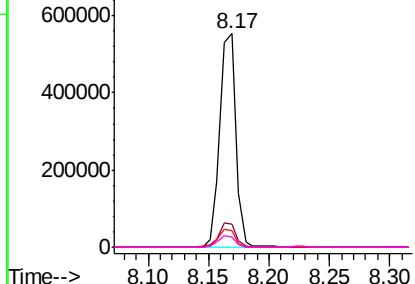
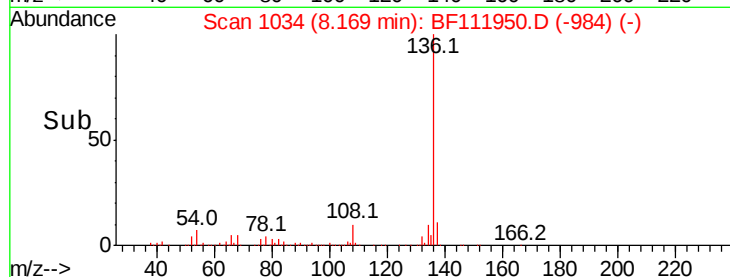
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	512675
Ion	Ratio	Lower Upper
136	100	
137	11.0	9.1 13.7
54	7.6	7.2 10.8
68	4.7	4.4 6.6

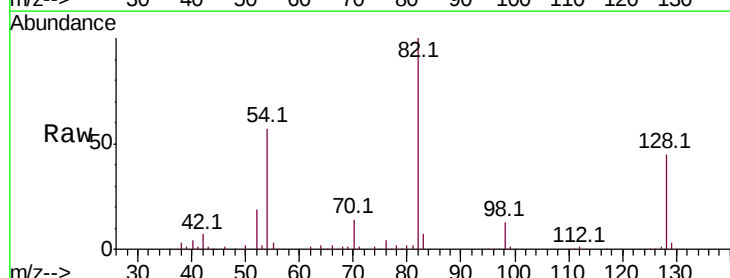


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

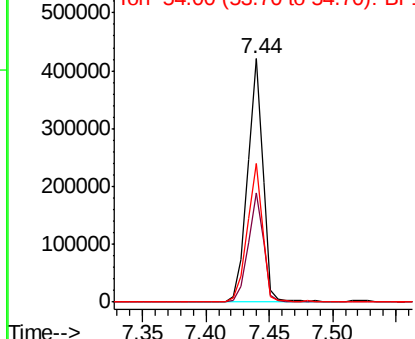
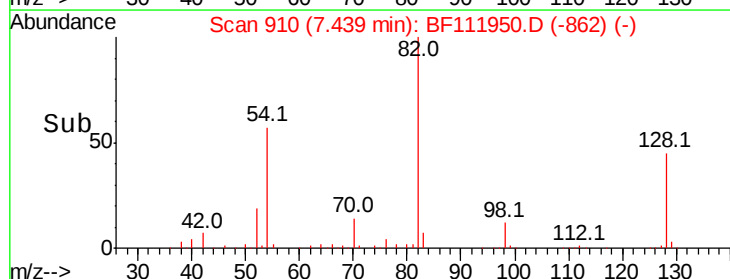


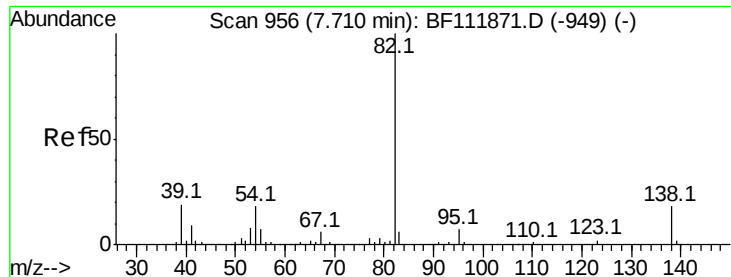
#23
Nitrobenzene-d5
Concen: 36.878 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.02 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Tgt Ion: 82	Resp:	353752
Ion	Ratio	Lower Upper
82	100	
128	44.7	35.7 53.5
54	57.2	45.8 68.8



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





#25

Isophorone

Concen: 22.334 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.27 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampleId :

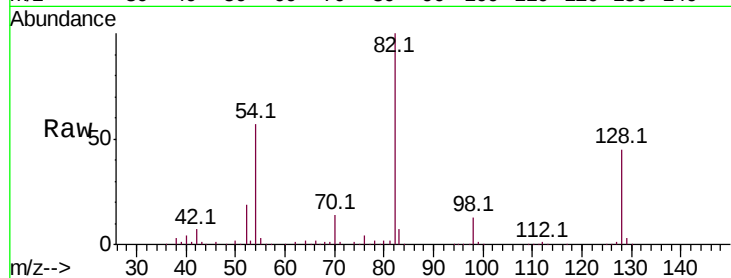
Tot Ion: 82 Resp: 346926

Ion Ratio Lower Upper

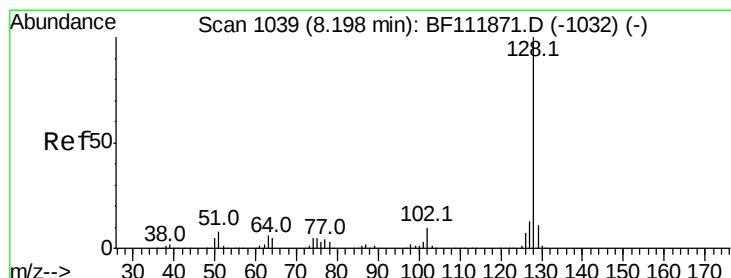
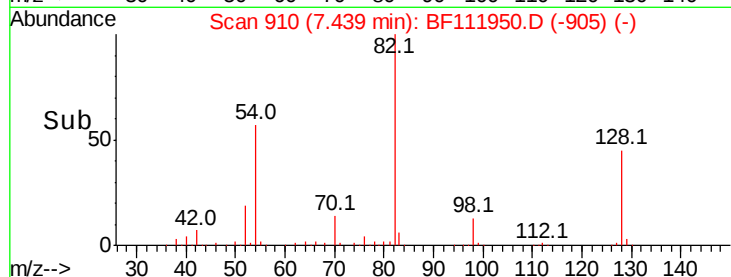
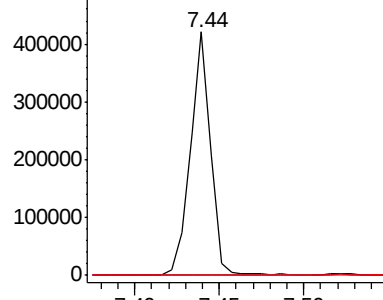
82 100

95 0.1 5.8 8.6#

138 0.0 14.4 21.6#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 4.543 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

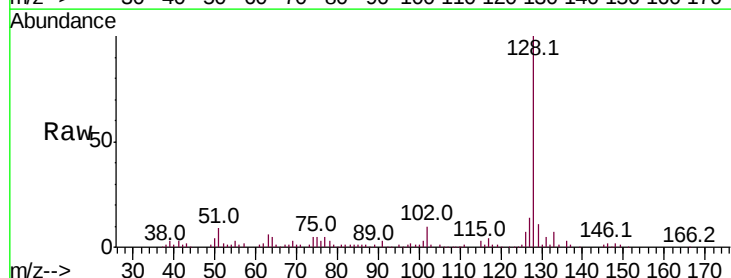
Tgt Ion:128 Resp: 110560

Ion Ratio Lower Upper

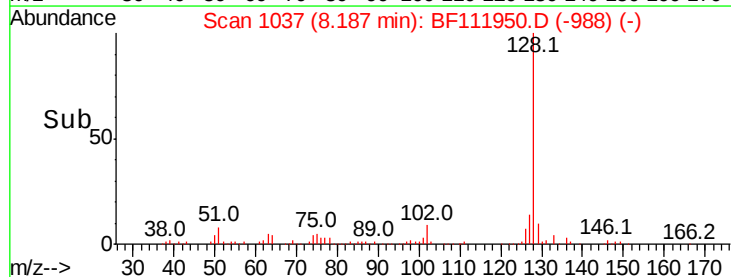
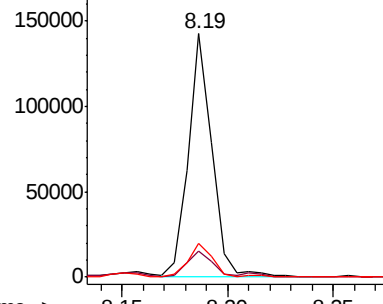
128 100

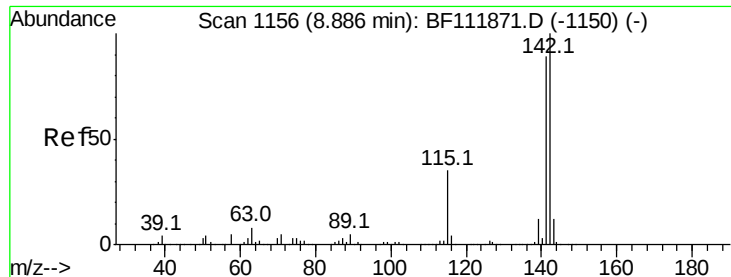
129 10.6 9.0 13.4

127 14.1 10.7 16.1



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

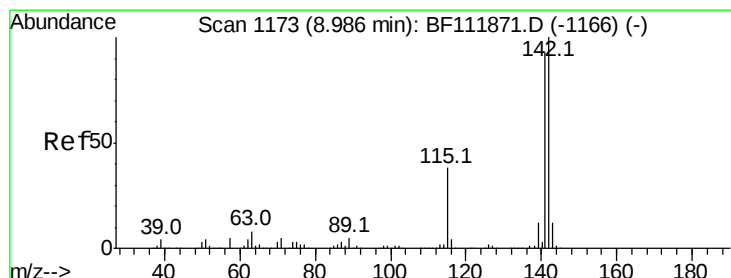
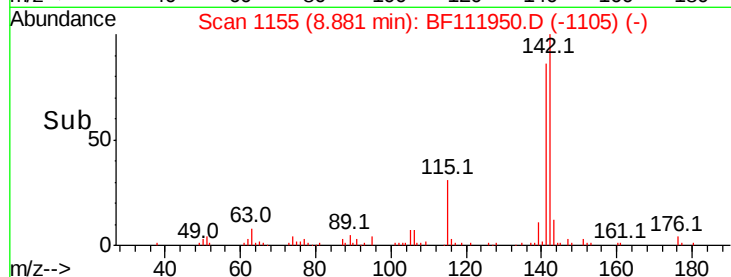
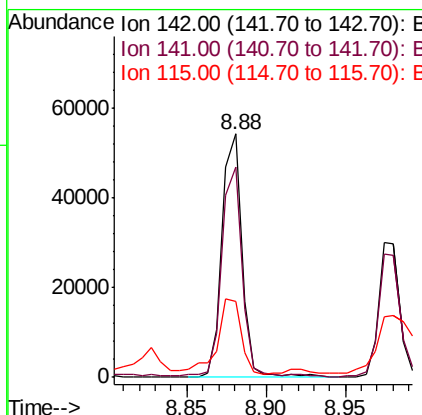
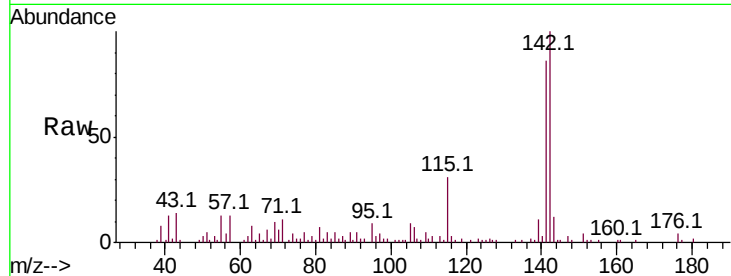




#37
 2-Methylnaphthalene
 Concen: 3.176 ng
 RT: 8.88 min Scan# 1155
 Delta R.T. -0.01 min
 Lab File: BF111950.D
 Acq: 9 Jan 2019 15:38

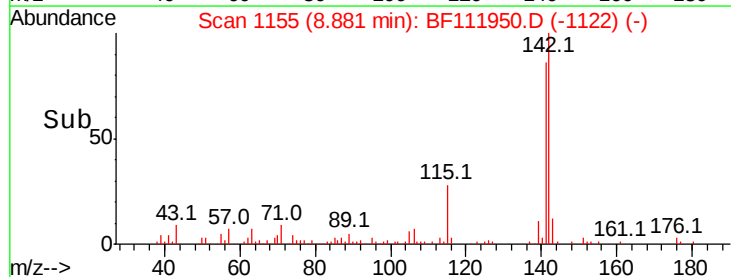
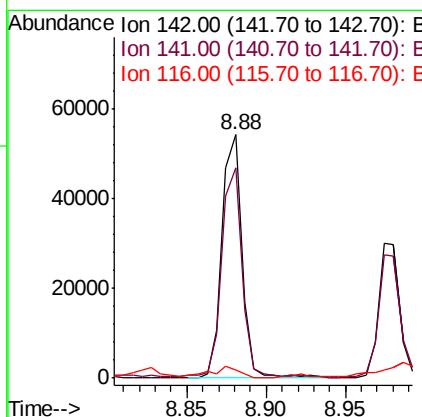
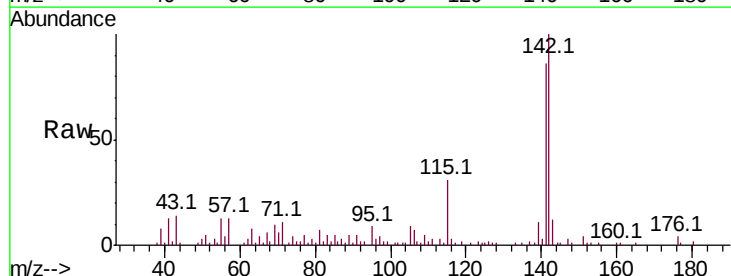
Instrument :
 BNA_F
 ClientSampleId :

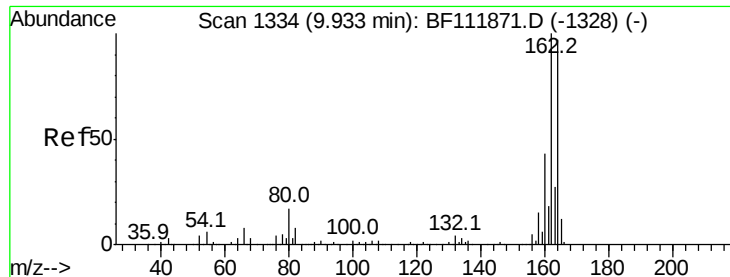
Tot Ion	Ratio	Lower	Upper
142	100		
141	86.4	71.4	107.2
115	31.0	28.3	42.5



#38
 1-Methylnaphthalene
 Concen: 3.311 ng
 RT: 8.88 min Scan# 1155
 Delta R.T. -0.11 min
 Lab File: BF111950.D
 Acq: 9 Jan 2019 15:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.4	74.8	112.2
116	3.3	3.1	4.7

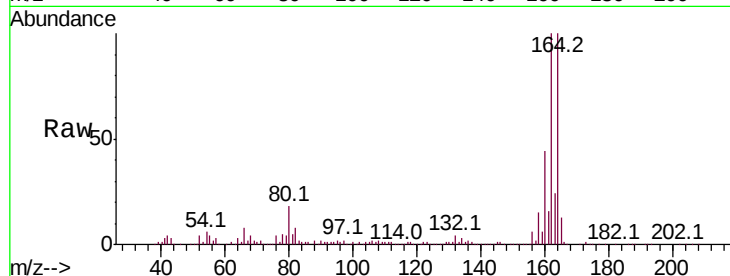




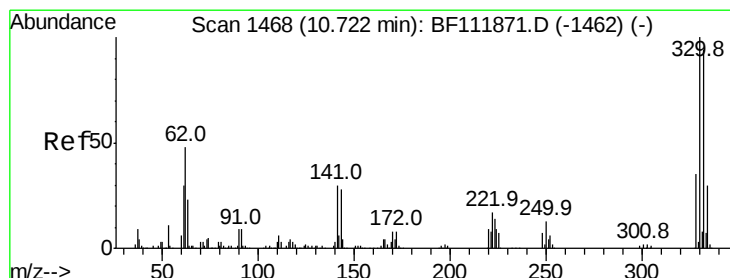
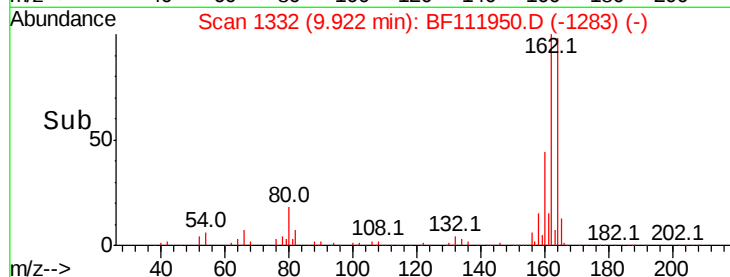
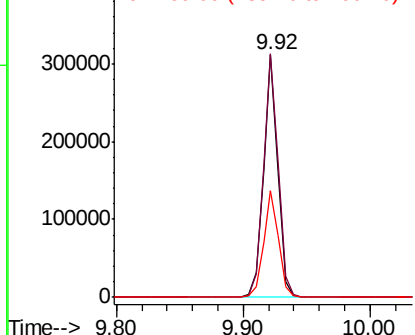
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: BF111950.D
 Acq: 9 Jan 2019 15:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 247903
 Ion Ratio Lower Upper
 164 100
 162 100.3 82.2 123.2
 160 44.1 35.5 53.3

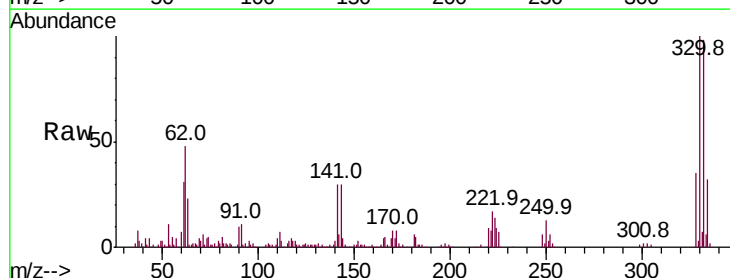


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

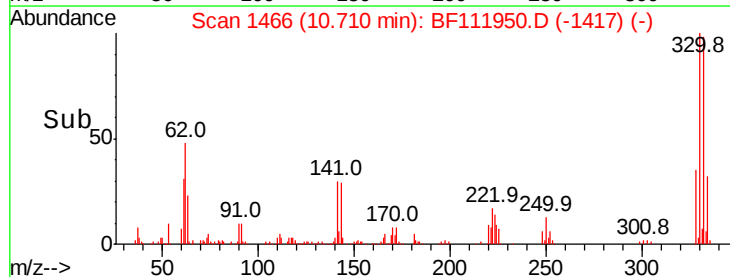
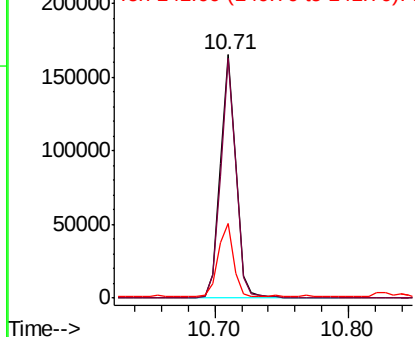


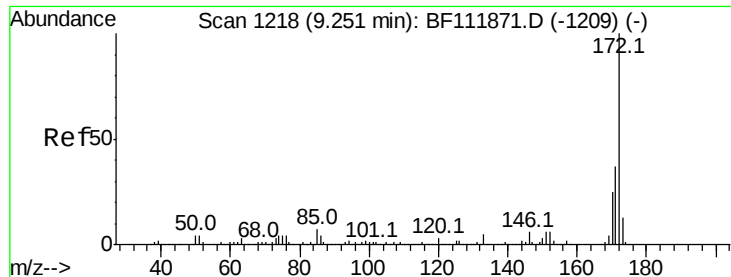
#42
 2,4,6-Tribromophenol
 Concen: 42.853 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF111950.D
 Acq: 9 Jan 2019 15:38

Tgt Ion:330 Resp: 138177
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.9 115.3
 141 29.4 23.7 35.5



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

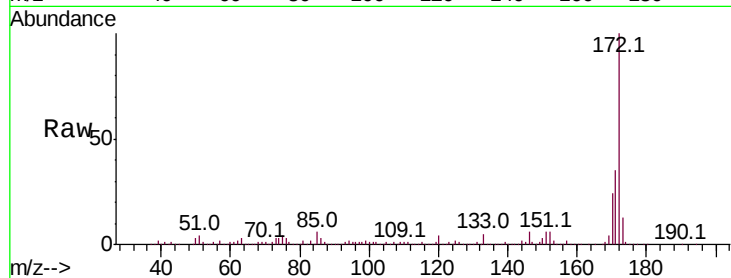




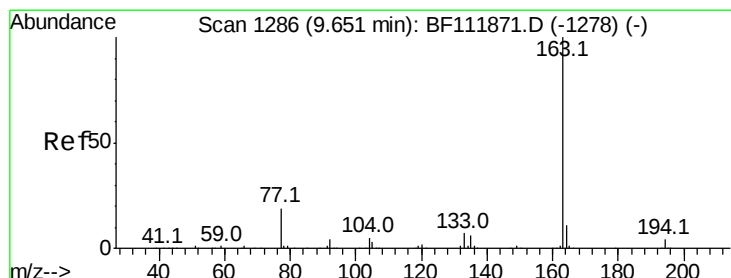
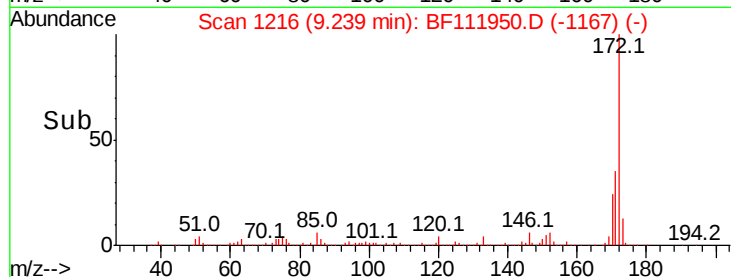
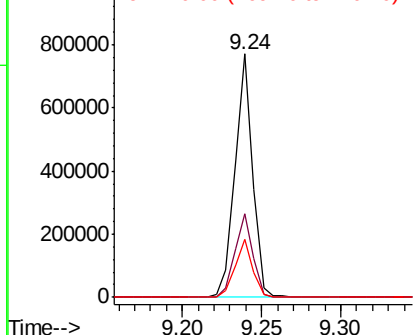
#45
2-Fluorobiphenyl
Concen: 35.213 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 598648
Ion Ratio Lower Upper
172 100
171 34.6 29.6 44.4
170 23.7 19.8 29.8

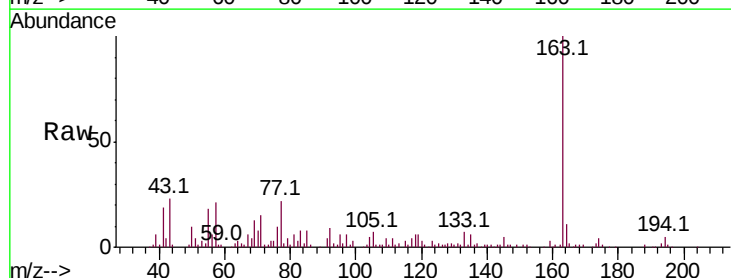


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

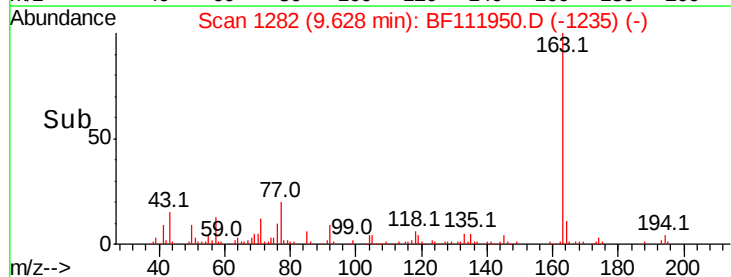
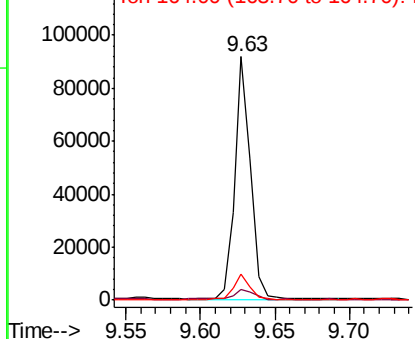


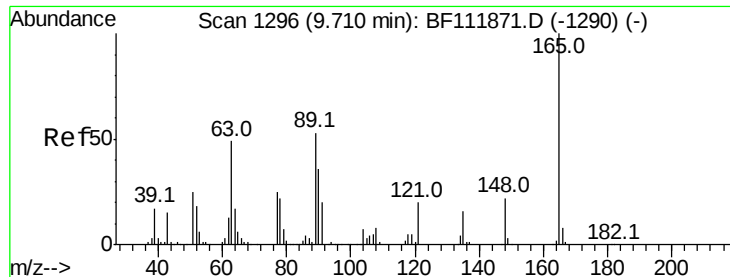
#50
Dimethylphthalate
Concen: 3.659 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Tgt Ion:163 Resp: 68148
Ion Ratio Lower Upper
163 100
194 4.5 3.4 5.2
164 10.9 8.5 12.7



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

2,6-Dinitrotoluene

Concen: 8.782 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.21 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampled :

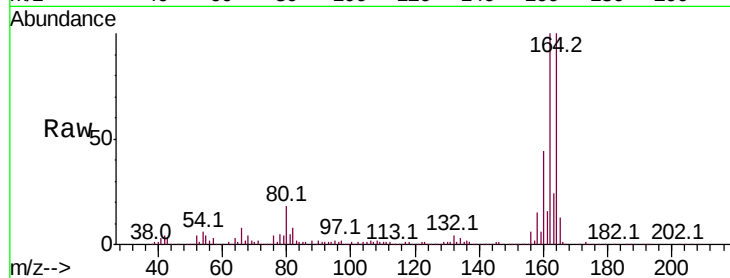
Tot Ion:165 Resp: 36573

Ion Ratio Lower Upper

165 100

63 2.1 46.2 69.2#

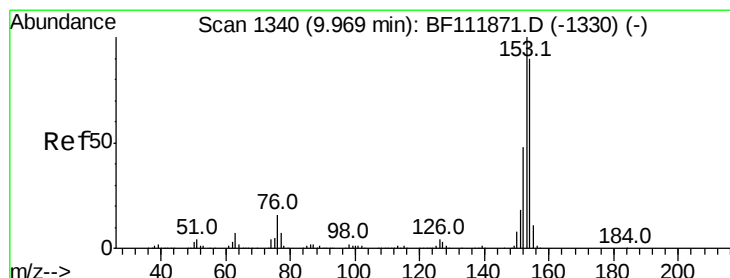
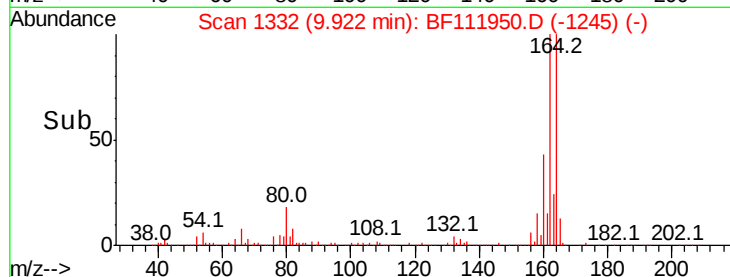
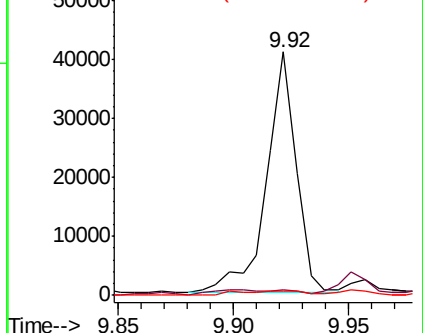
89 1.6 42.2 63.2#



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



#52

Acenaphthene

Concen: 2.118 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.02 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

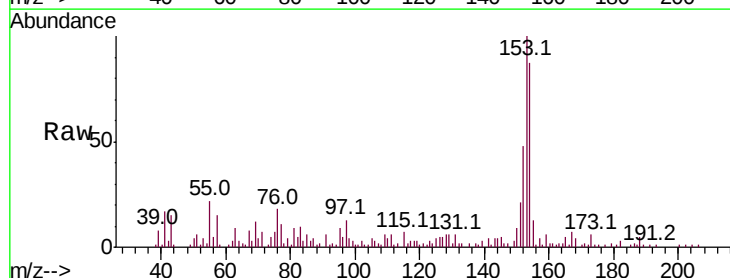
Tgt Ion:154 Resp: 32852

Ion Ratio Lower Upper

154 100

153 114.9 89.4 134.0

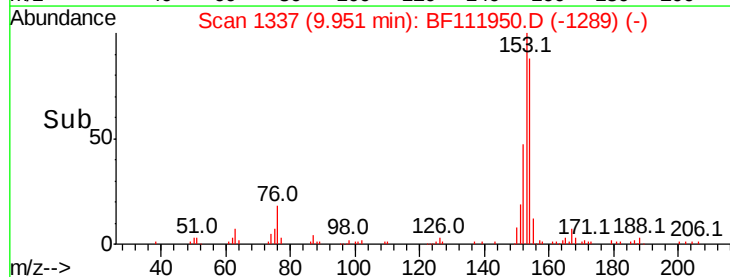
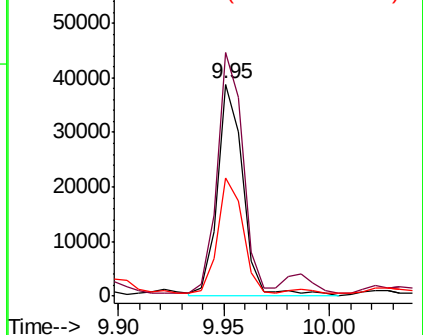
152 55.5 43.1 64.7

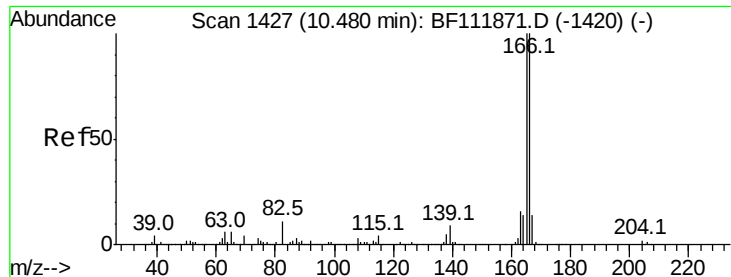


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

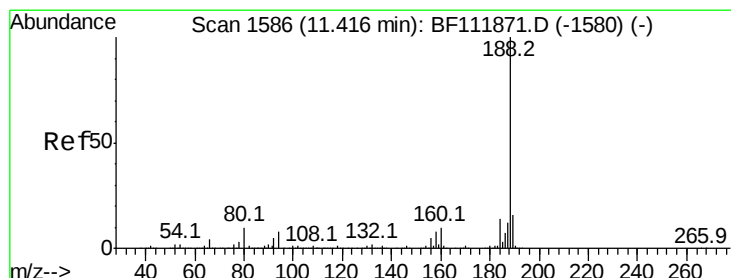
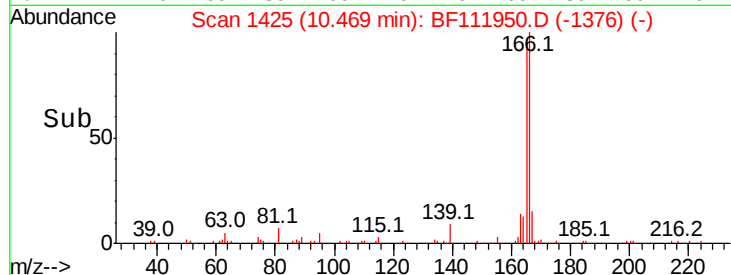
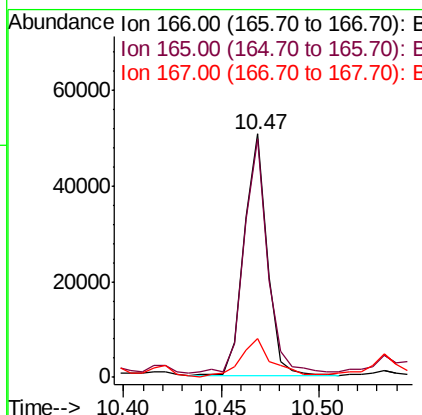
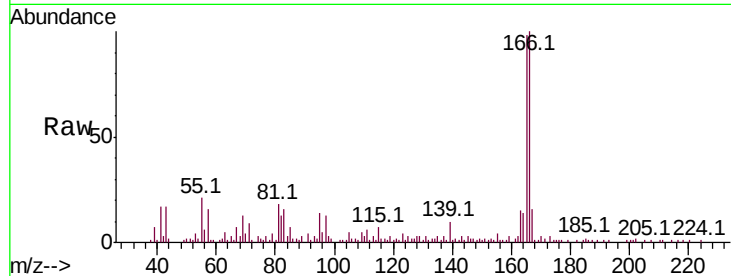




#58
 Fluorene
 Concen: 2.546 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF111950.D
 Acq: 9 Jan 2019 15:38

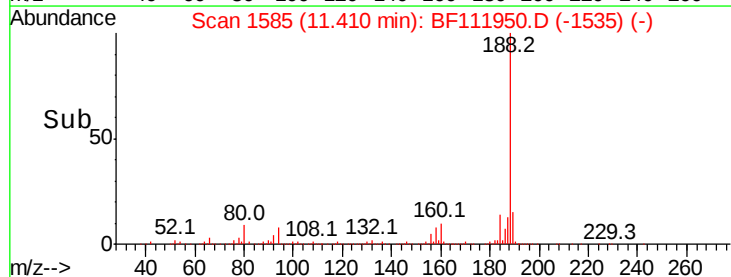
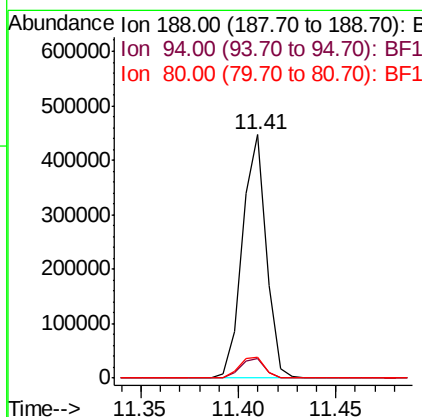
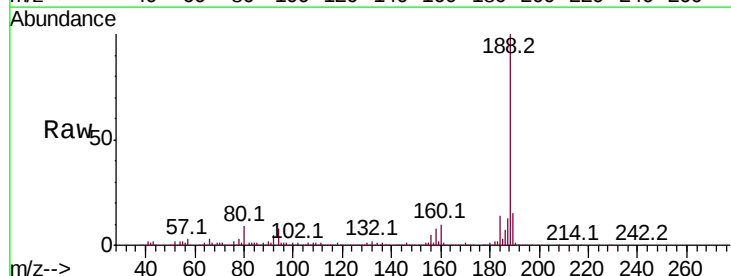
Instrument :
 BNA_F
 ClientSampleId :

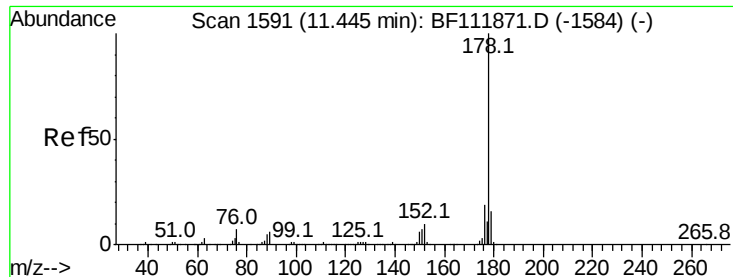
Tot Ion:166 Resp: 41795
 Ion Ratio Lower Upper
 166 100
 165 97.8 79.7 119.5
 167 15.7 11.1 16.7



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: BF111950.D
 Acq: 9 Jan 2019 15:38

Tgt Ion:188 Resp: 380037
 Ion Ratio Lower Upper
 188 100
 94 8.0 6.6 10.0
 80 8.7 7.7 11.5





#71

Phenanthrene

Concen: 12.962 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampleId :

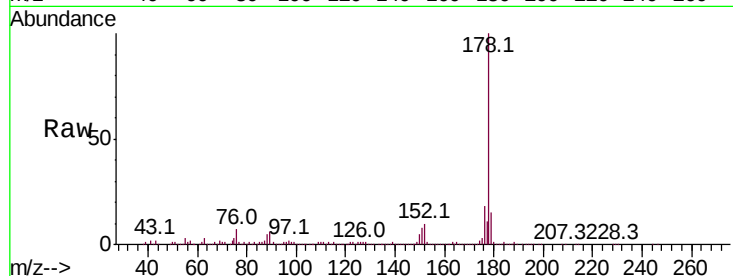
Tot Ion:178 Resp: 263365

Ion Ratio Lower Upper

178 100

176 18.5 15.6 23.4

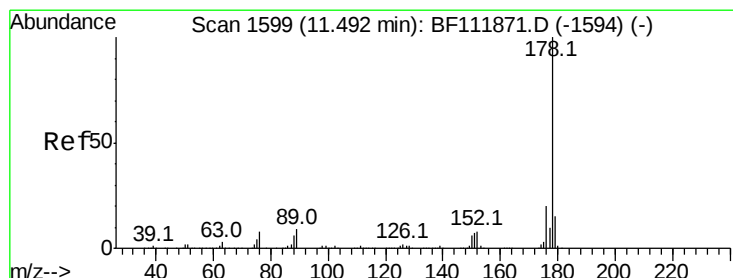
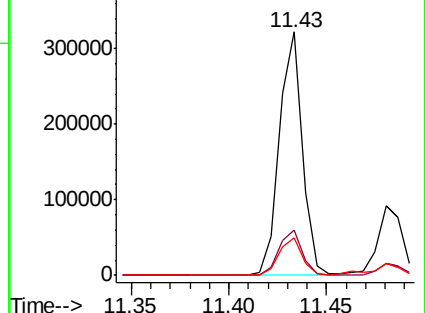
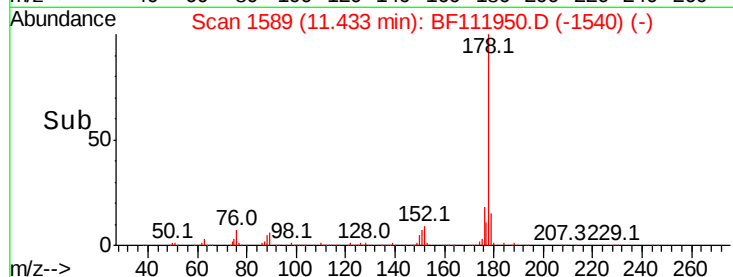
179 15.4 12.6 18.8



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: 3.731 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

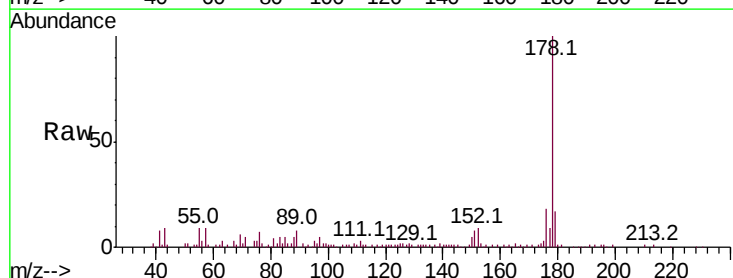
Tgt Ion:178 Resp: 76964

Ion Ratio Lower Upper

178 100

176 17.7 15.7 23.5

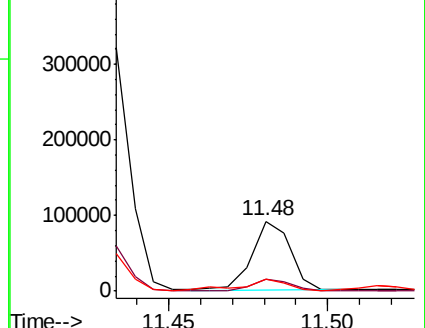
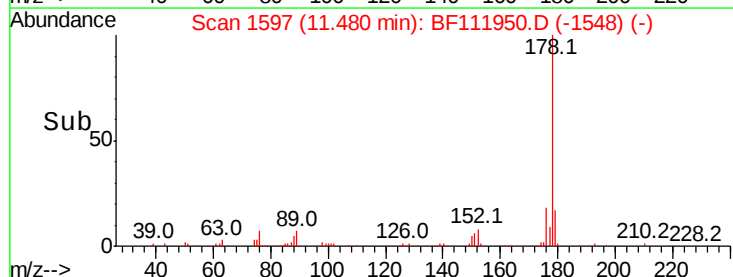
179 17.2 12.4 18.6

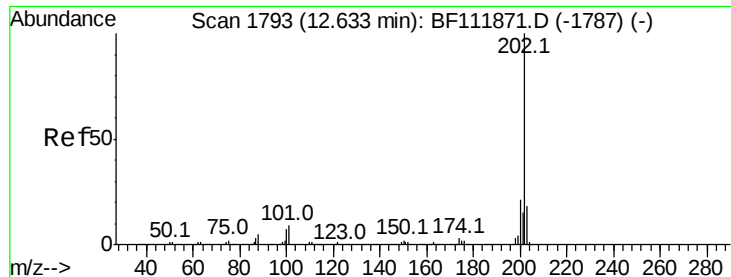


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 8.784 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampleId :

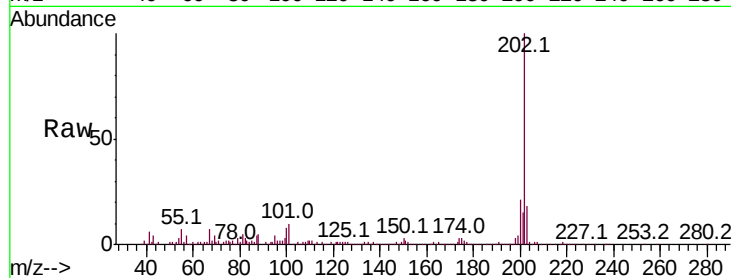
Tot Ion:202 Resp: 183227

Ion Ratio Lower Upper

202 100

101 10.4 0.0 29.3

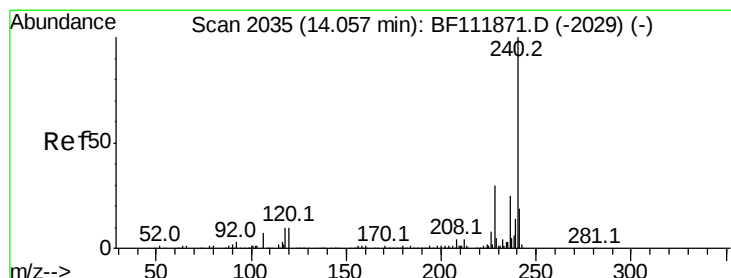
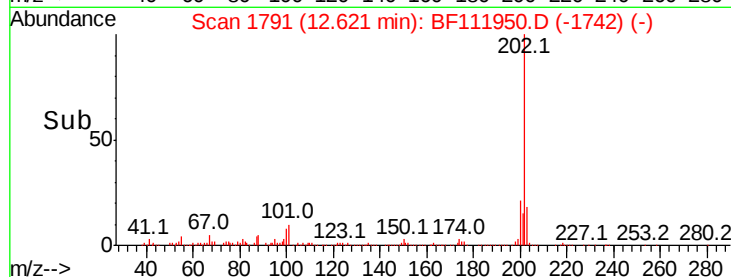
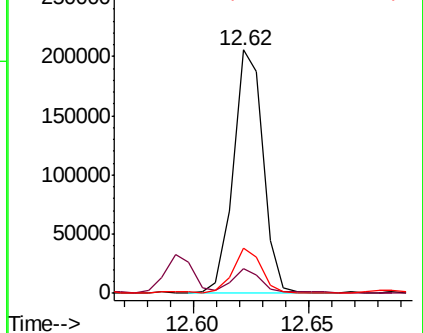
203 18.4 0.0 37.6



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: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

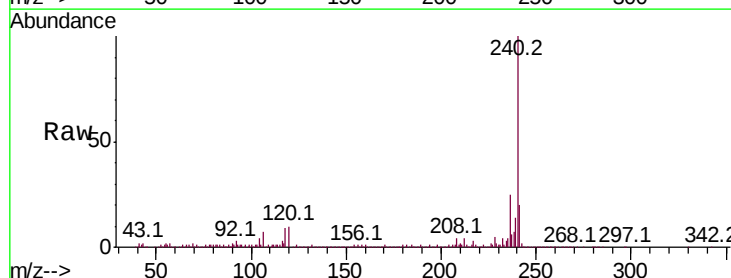
Tgt Ion:240 Resp: 328623

Ion Ratio Lower Upper

240 100

120 9.7 8.2 12.2

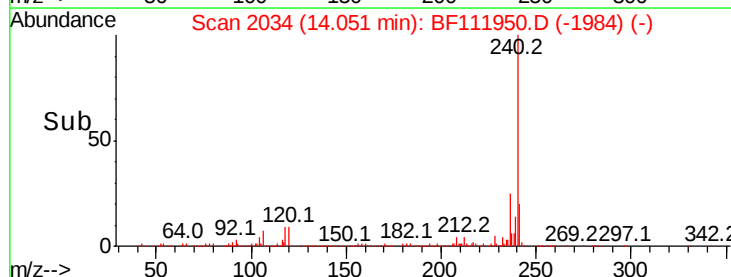
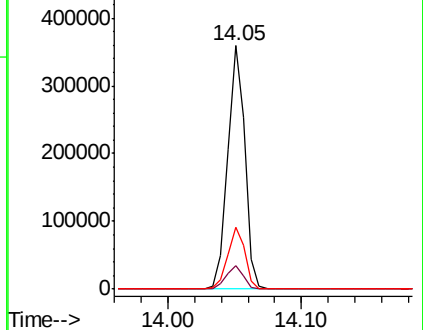
236 25.4 20.2 30.4

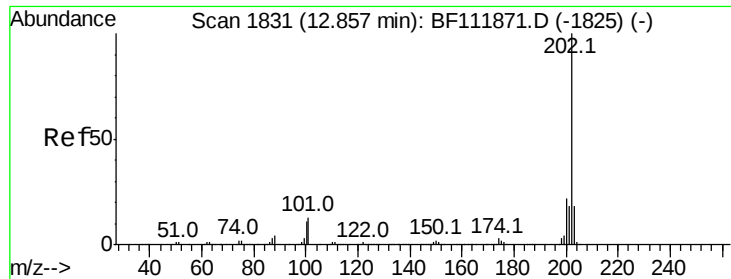


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

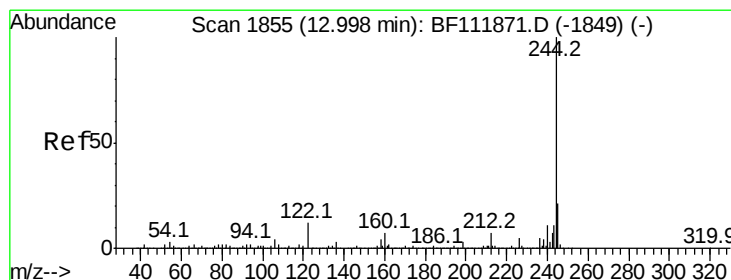
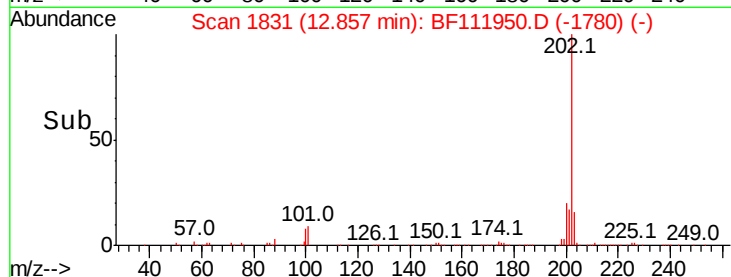
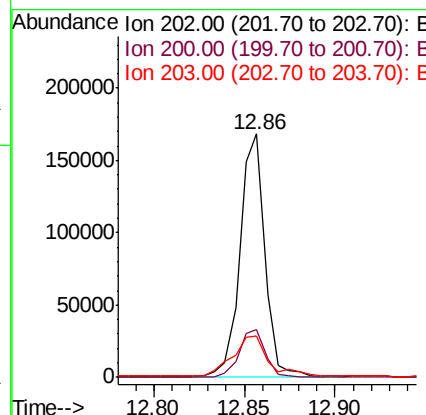
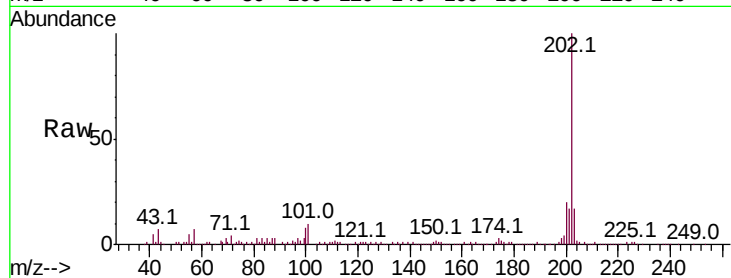




#78
Pvrene
Concen: 7.027 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

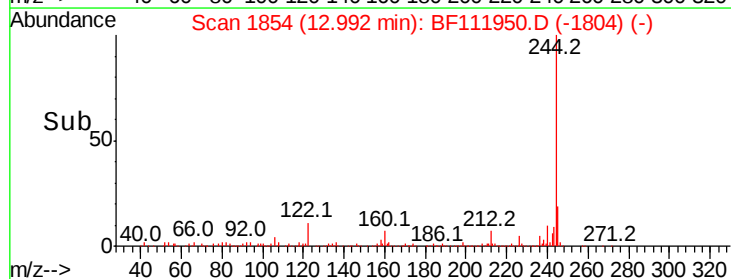
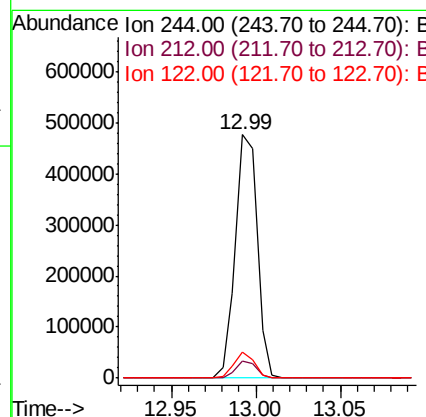
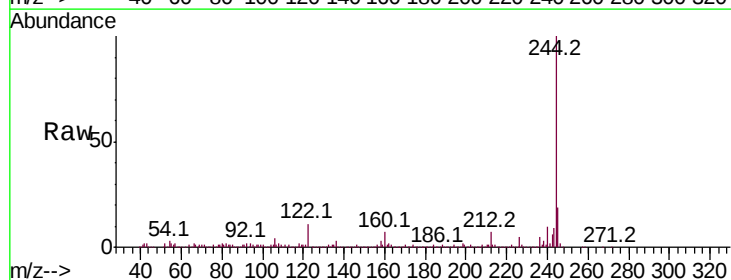
Instrument :
BNA_F
ClientSampleId :

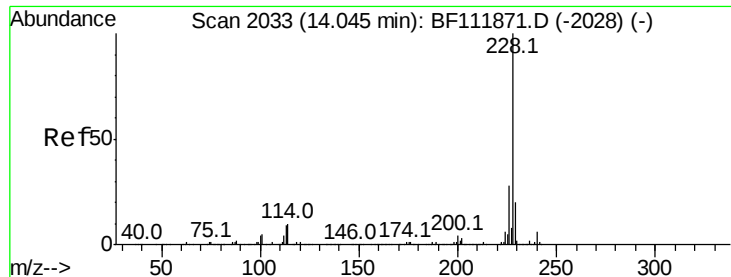
Tot Ion	Ratio	Lower	Upper
202	100		
200	19.9	17.4	26.2
203	16.9	14.6	21.8



#79
Terphenyl-d14
Concen: 24.834 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	10.8	9.5	14.3

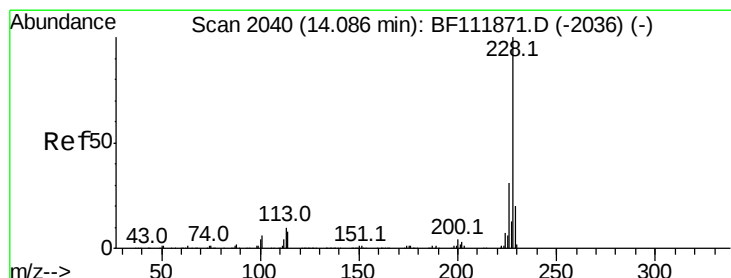
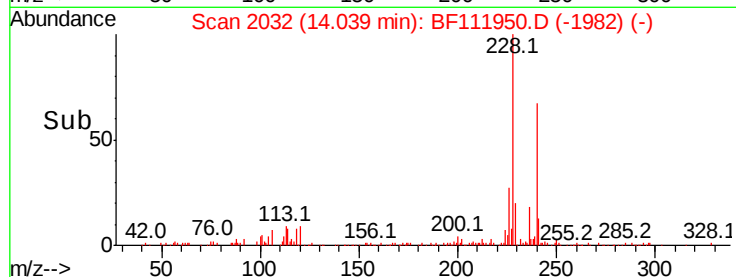
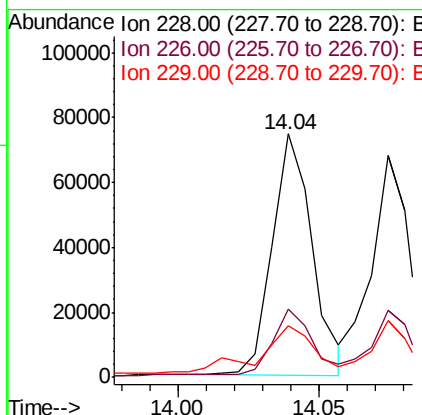
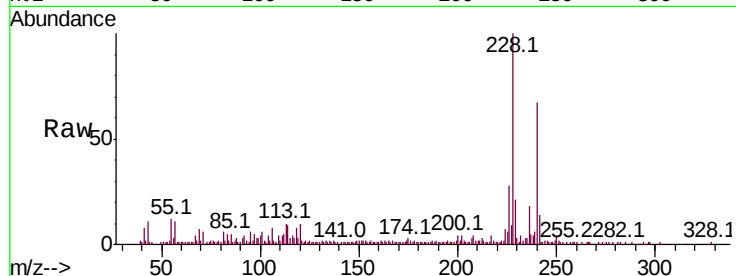




#81
Benzo(a)anthracene
Concen: 3.857 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

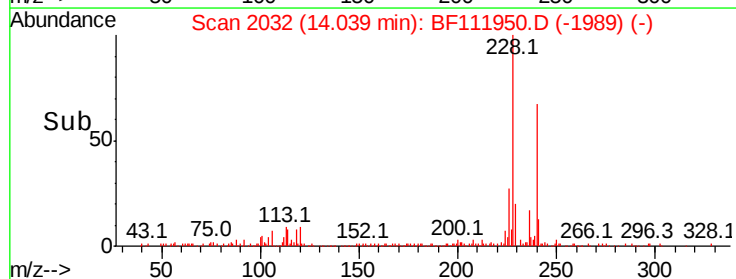
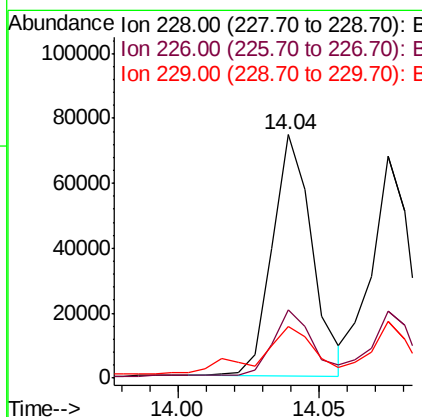
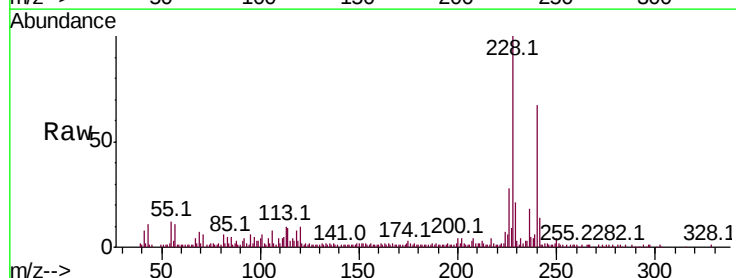
Instrument :
BNA_F
ClientSampleId :

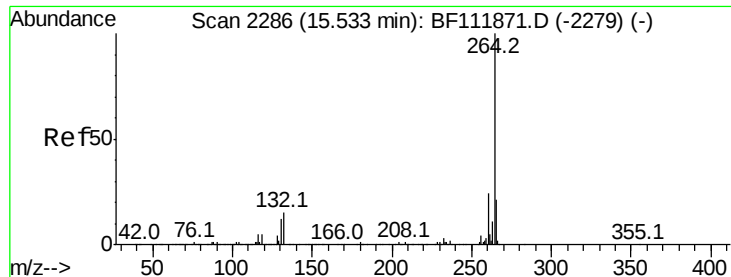
Tot Ion:228 Resp: 72939
Ion Ratio Lower Upper
228 100
226 27.8 22.2 33.2
229 21.1 16.2 24.2



#83
Chrysene
Concen: 4.045 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.05 min
Lab File: BF111950.D
Acq: 9 Jan 2019 15:38

Tgt Ion:228 Resp: 72939
Ion Ratio Lower Upper
228 100
226 27.8 24.6 37.0
229 21.1 15.7 23.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2287

Delta R.T. 0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampled :

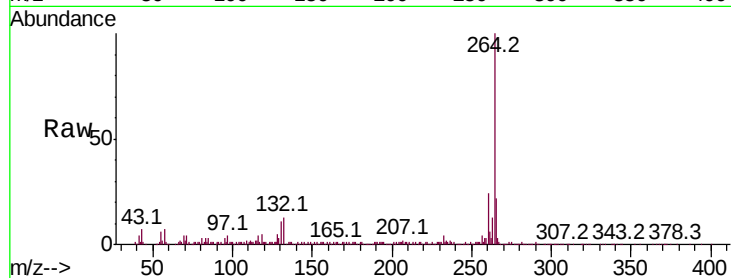
Tot Ion:264 Resp: 252121

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

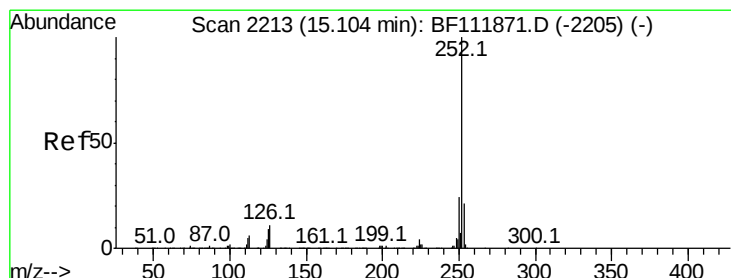
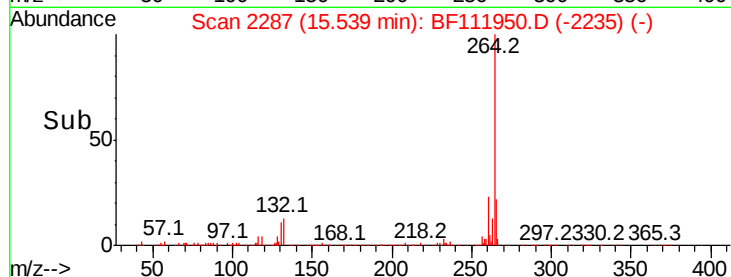
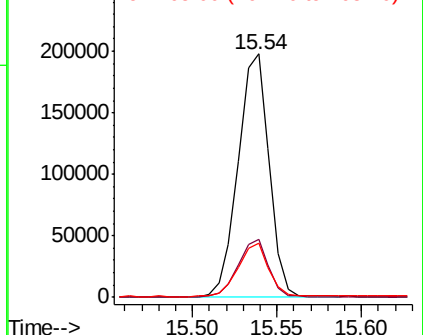
265 22.2 17.1 25.7



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: 5.952 ng

RT: 15.10 min Scan# 2212

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

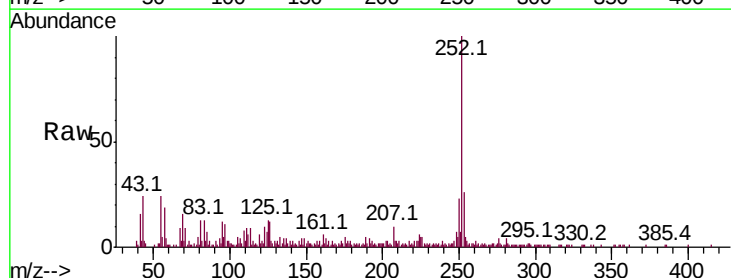
Tgt Ion:252 Resp: 89764

Ion Ratio Lower Upper

252 100

253 25.5 17.0 25.6

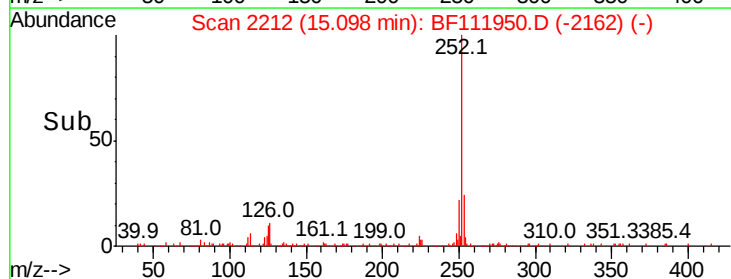
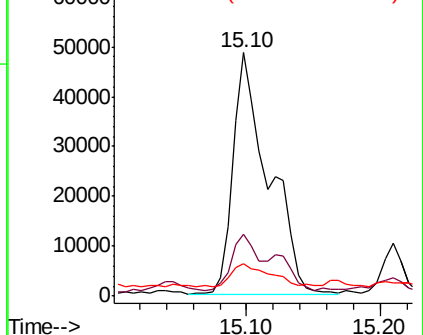
125 13.4 7.1 10.7#

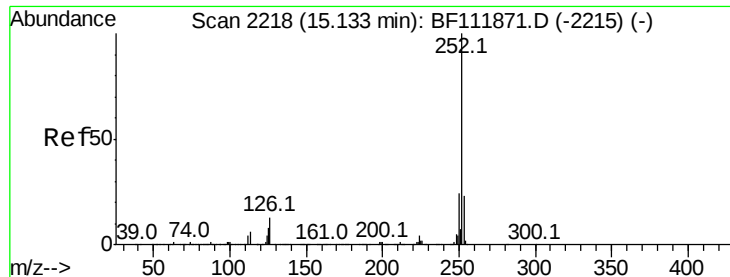


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 6.332 ng

RT: 15.10 min Scan# 2212

Delta R.T. -0.04 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampleId :

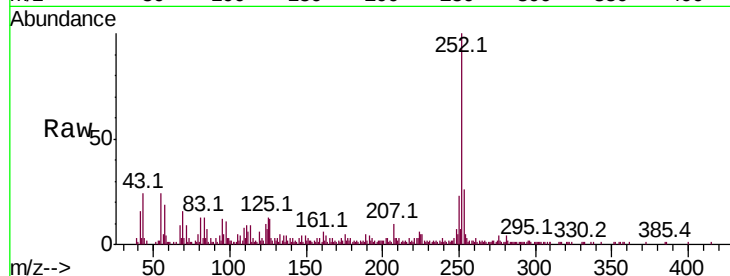
Tot Ion:252 Resp: 89764

Ion Ratio Lower Upper

252 100

253 25.5 17.8 26.6

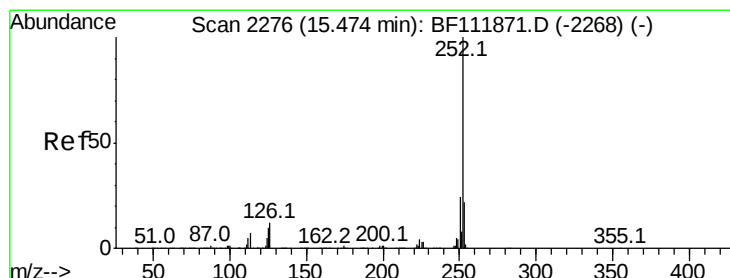
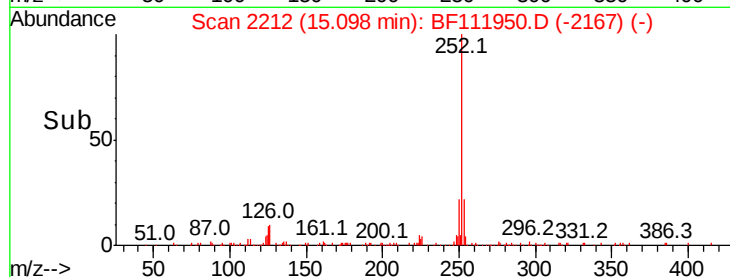
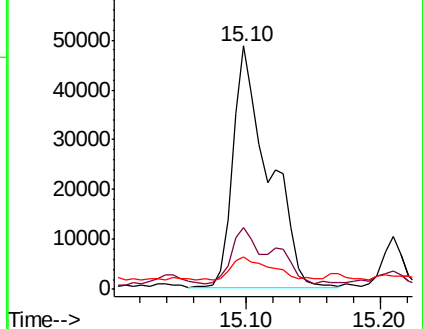
125 13.4 7.0 10.4#



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

Benzo(a)pyrene

Concen: 3.410 ng

RT: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

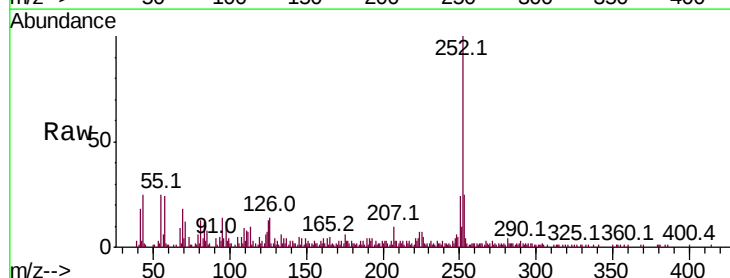
Tgt Ion:252 Resp: 45220

Ion Ratio Lower Upper

252 100

253 24.8 17.4 26.2

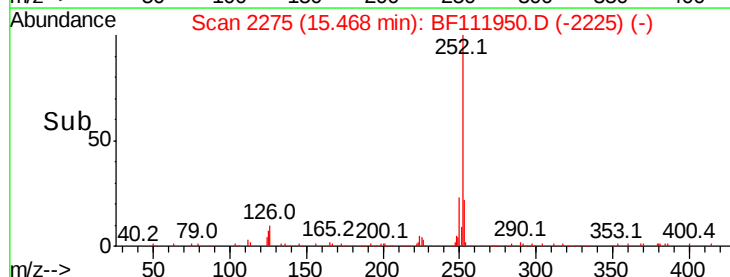
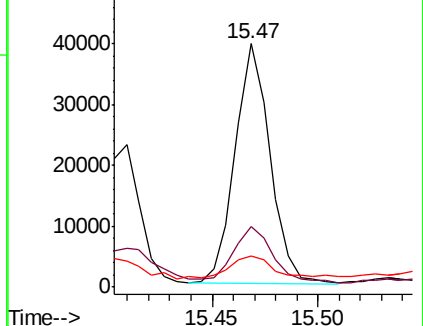
125 13.0 7.9 11.9#

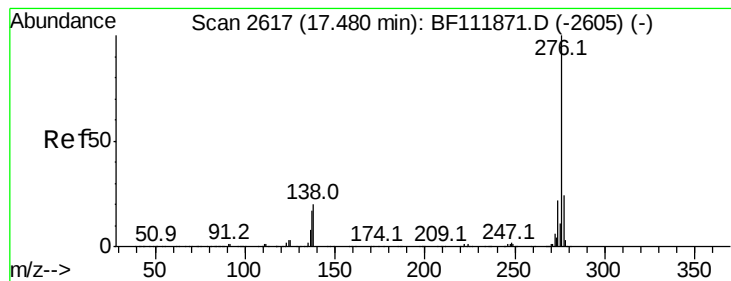


Abundance Ion 252.00 (251.70 to 252.70): E

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: 2.146 ng

RT: 17.48 min Scan# 2617

Delta R.T. -0.00 min

Lab File: BF111950.D

Acq: 9 Jan 2019 15:38

Instrument :

BNA_F

ClientSampleId :

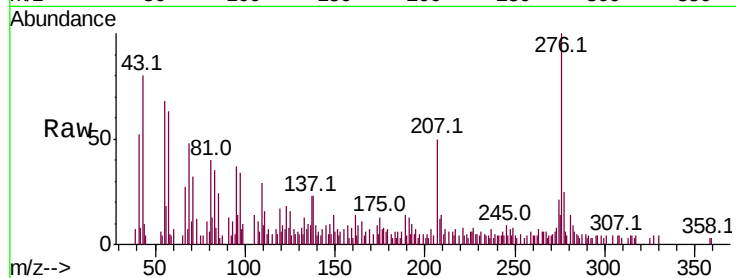
Tot Ion:276 Resp: 22389

Ion Ratio Lower Upper

276 100

277 24.7 19.0 28.6

138 23.4 16.2 24.2



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

