

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120919\
 Data File : BF118147.D
 Acq On : 9 Dec 2019 16:34
 Operator : JU
 Sample : K6147-06DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 10 00:54:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	106195	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	429745	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	227158	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	404867	20.00	ng	0.00
76) Chrysene-d12	14.06	240	227847	20.00	ng	-0.01
87) Perylene-d12	15.55	264	269559	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	62695	10.34	ng	0.00
7) Phenol-d6	6.49	99	80273	10.95	ng	0.00
23) Nitrobenzene-d5	7.43	82	46014	6.02	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	24967	9.05	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	104569	7.00	ng	-0.01
79) Terphenyl-d14	12.99	244	103012	7.77	ng	-0.01

Target Compounds

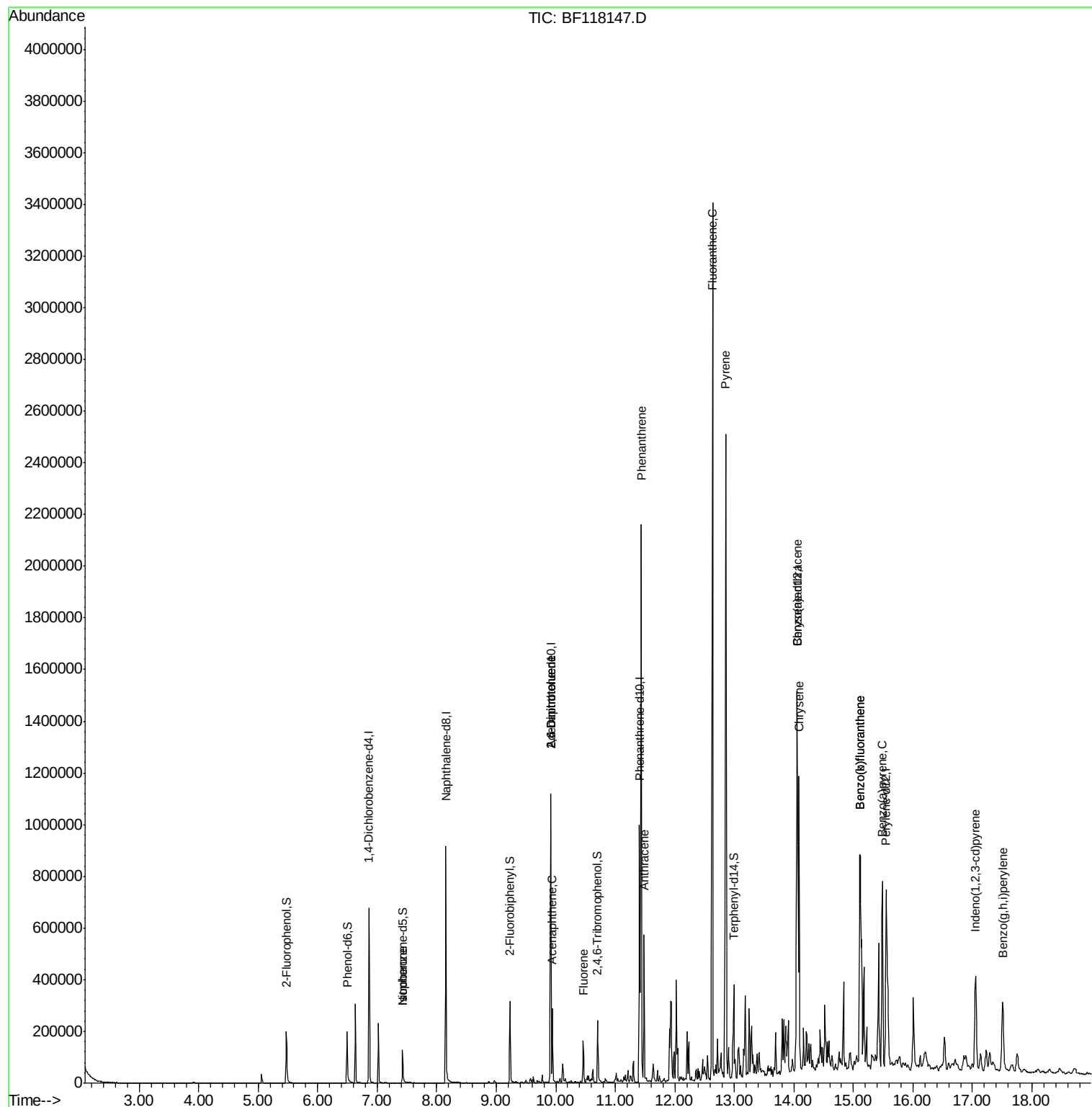
						Qvalue
9) Benzaldehyde	6.63	77	1667	Below Cal	#	75
25) Isophorone	7.43	82	46013	3.553 ng	#	62
51) 2,6-Dinitrotoluene	9.92	165	29582	8.108 ng	#	28
52) Acenaphthene	9.95	154	53763	4.144 ng		99
57) 2,4-Dinitrotoluene	9.92	165	29582	6.075 ng	#	26
58) Fluorene	10.46	166	42897	2.839 ng		99
71) Phenanthrene	11.43	178	742650	34.506 ng		100
72) Anthracene	11.48	178	223474	10.409 ng		99
75) Fluoranthene	12.63	202	1425599	64.787 ng		99
78) Pyrene	12.86	202	1091530	60.791 ng		99
81) Benzo(a)anthracene	14.05	228	470401	29.857 ng		99
83) Chrysene	14.09	228	420161	27.919 ng		98
86) Indeno(1,2,3-cd)pyrene	17.05	276	244535	19.311 ng		96
88) Benzo(b)fluoranthene	15.12	252	668834	37.516 ng		99
89) Benzo(k)fluoranthene	15.12	252	668834	39.052 ng	#	96
90) Benzo(a)pyrene	15.49	252	338030	21.469 ng		97
92) Benzo(a,h,i)perylene	17.51	276	226453	17.450 ng		99

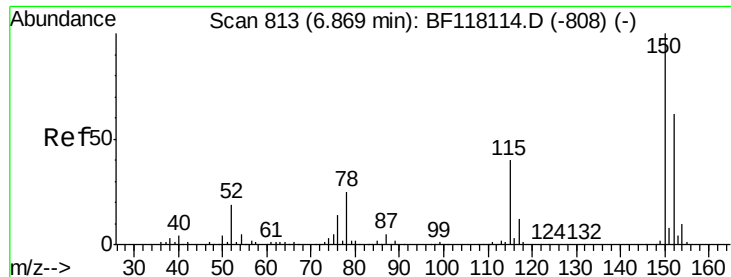
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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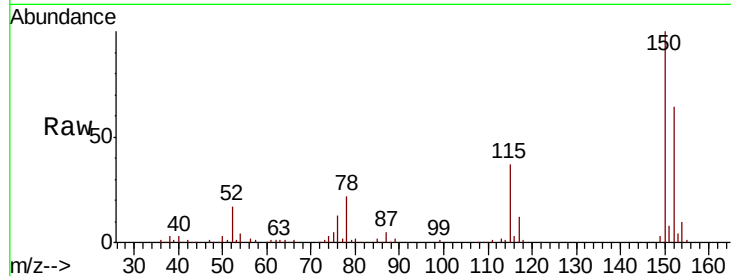


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.3	192.5
115	58.4	51.1	76.7

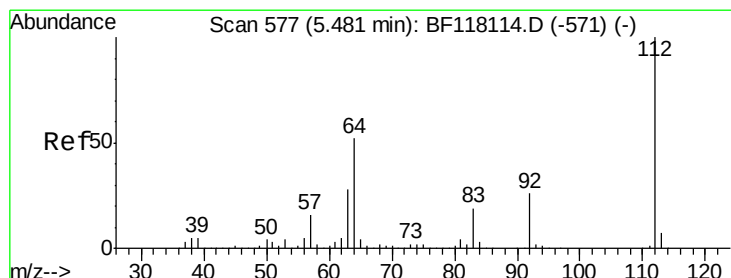
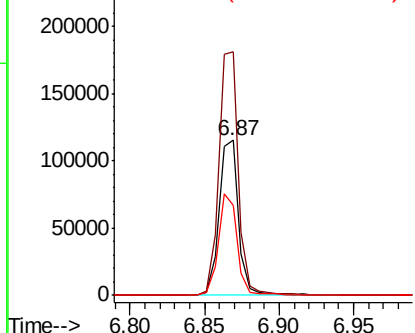
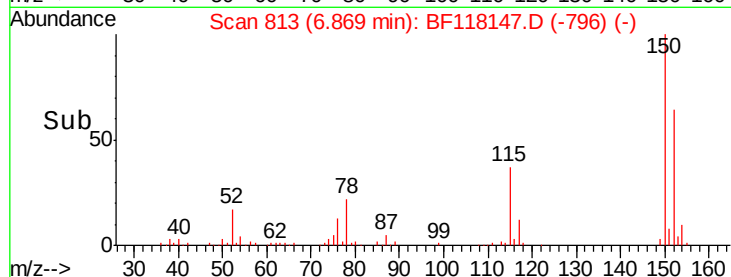


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

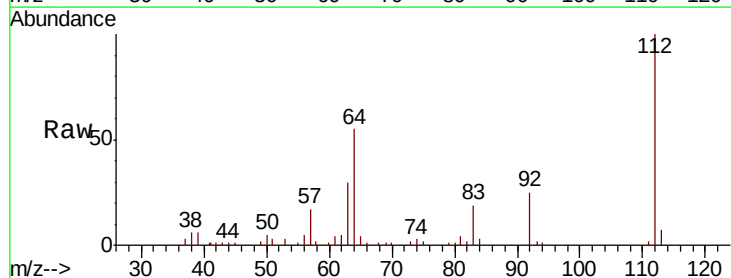
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 10.340 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.8	41.3	61.9
63	29.5	22.4	33.6

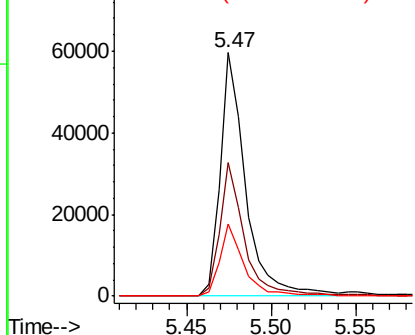
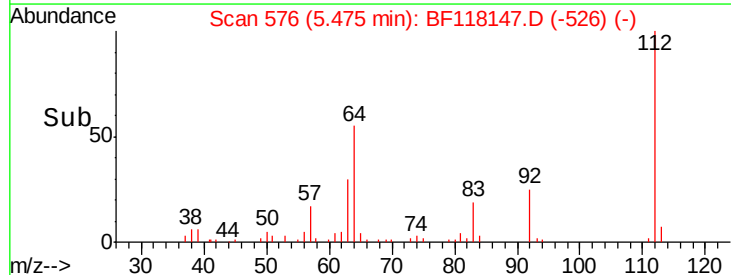


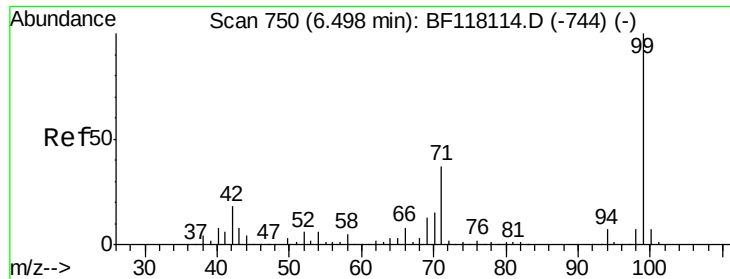
Abundance

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: 10.946 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

Instrument :

BNA_F

ClientSampled :

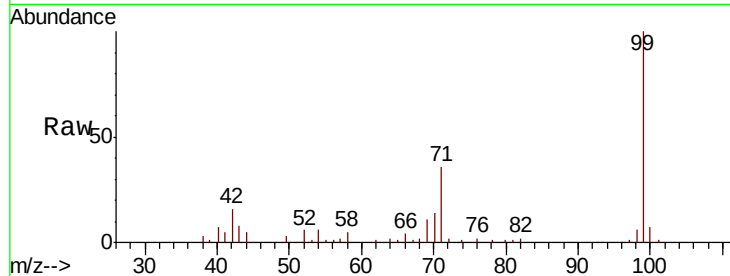
Tot Ion: 99 Resp: 80273

Ion Ratio Lower Upper

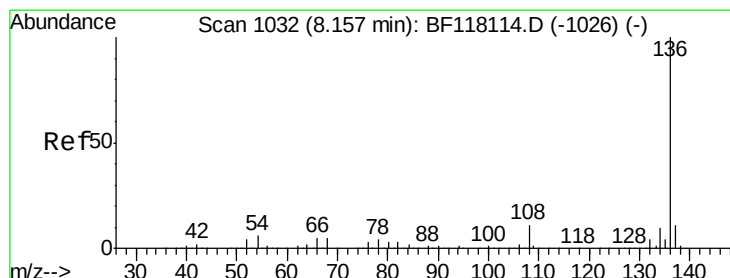
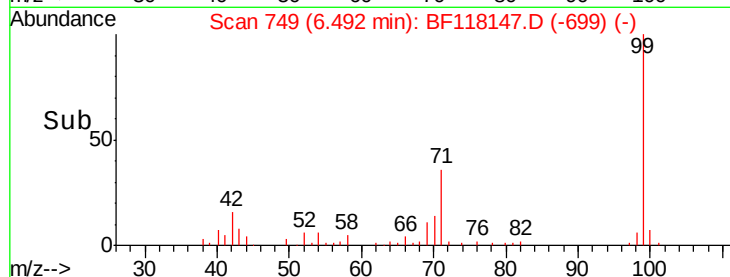
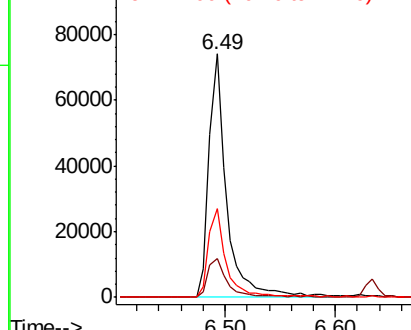
99 100

42 16.0 14.1 21.1

71 36.4 29.7 44.5



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

Tgt Ion: 136 Resp: 429745

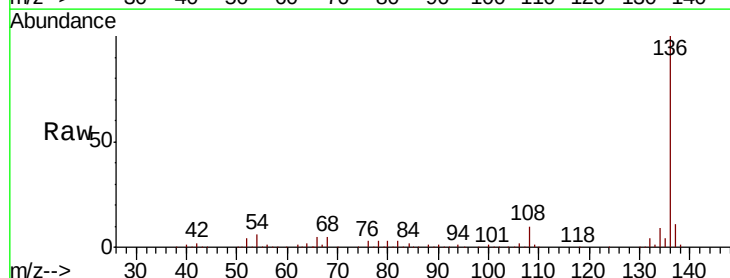
Ion Ratio Lower Upper

136 100

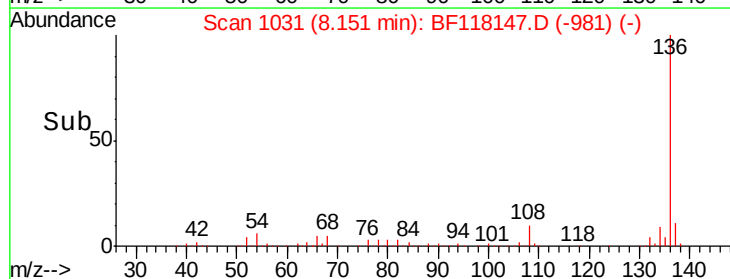
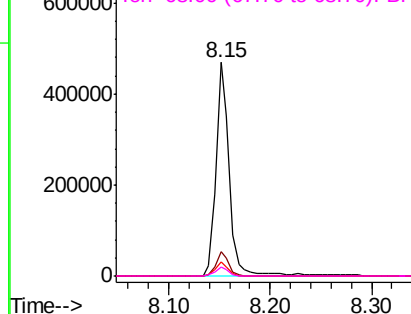
137 11.1 9.0 13.6

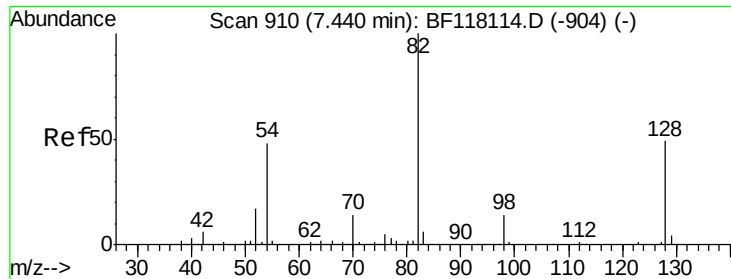
54 6.4 5.0 7.6

68 4.5 3.8 5.8



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

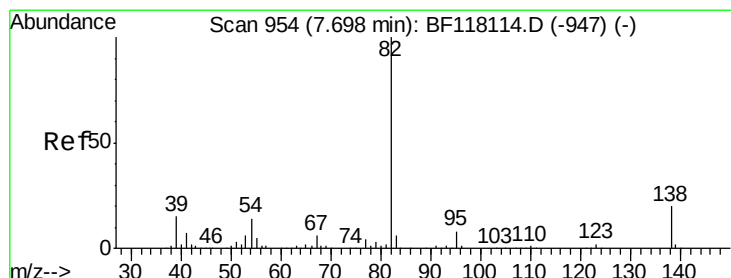
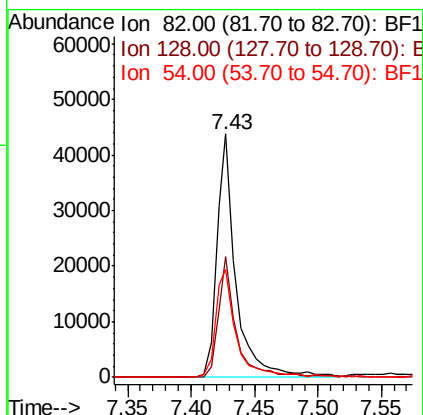
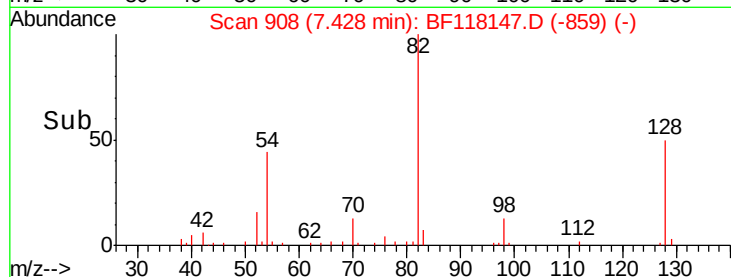
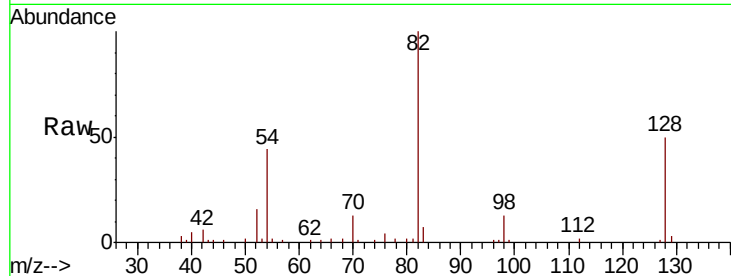




#23
 Nitrobenzene-d5
 Concen: 6.024 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.01 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

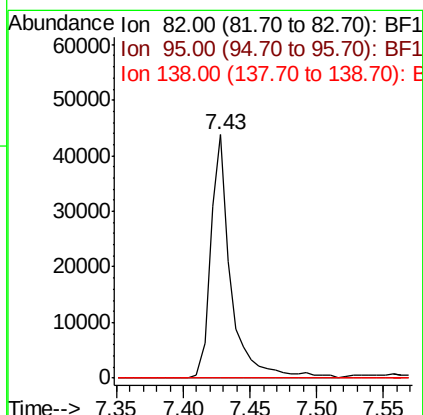
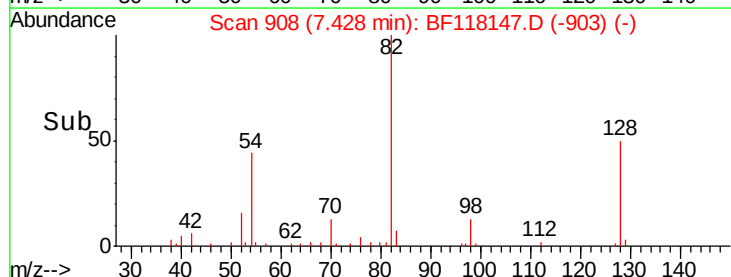
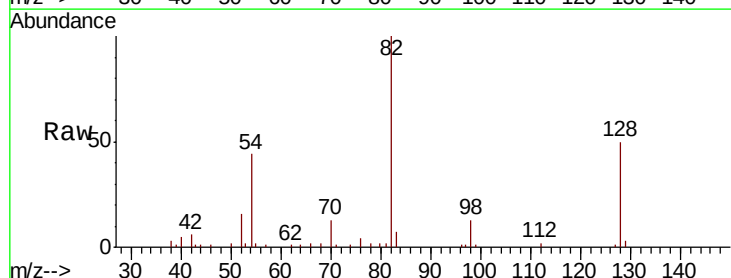
Instrument :
 BNA_F
 ClientSampled :

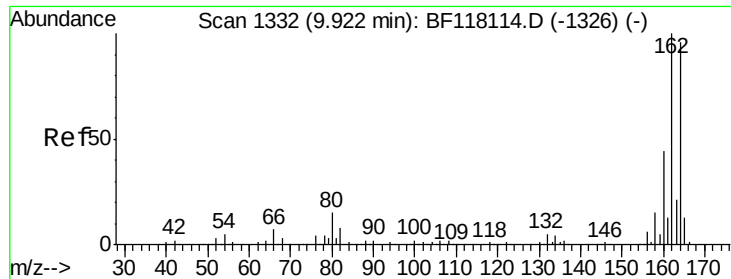
Tot Ion: 82 Resp: 46014
 Ion Ratio Lower Upper
 82 100
 128 49.7 39.1 58.7
 54 44.3 38.2 57.2



#25
 Isophorone
 Concen: 3.553 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.27 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

Tgt Ion: 82 Resp: 46013
 Ion Ratio Lower Upper
 82 100
 95 0.0 6.3 9.5#
 138 0.0 16.3 24.5#

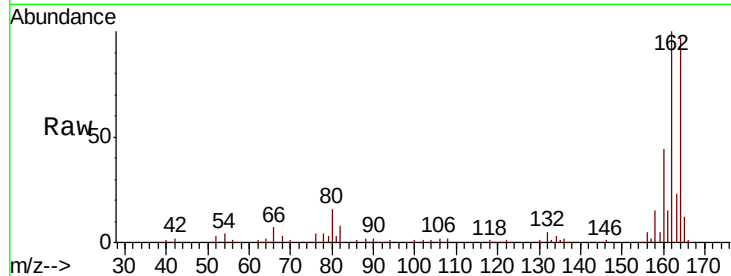




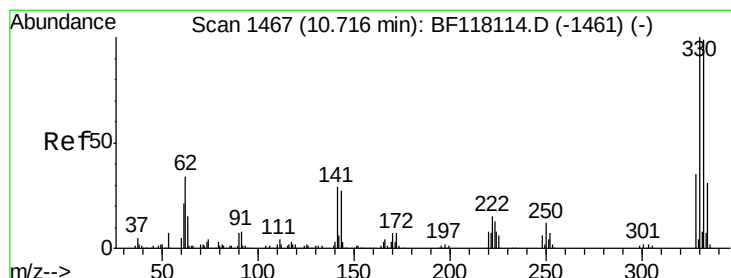
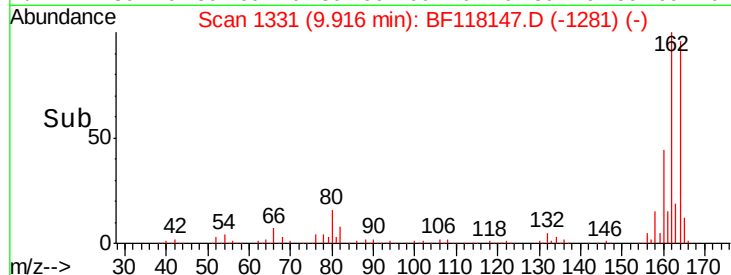
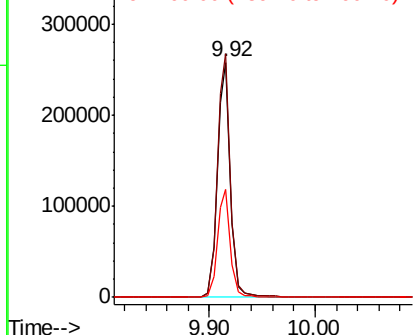
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 227158
Ion Ratio Lower Upper
164 100
162 103.5 83.4 125.0
160 45.6 36.6 54.8

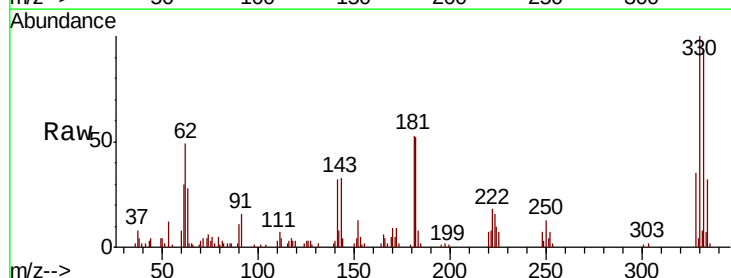


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

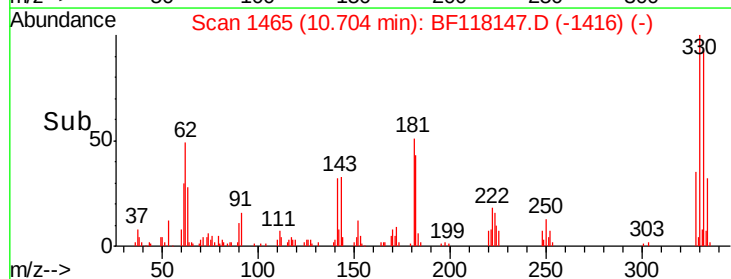
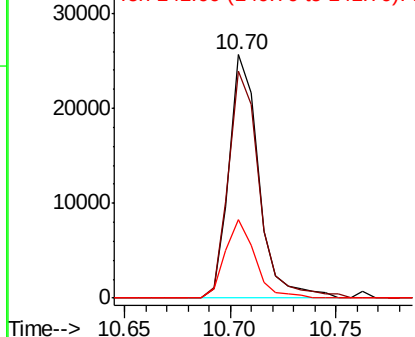


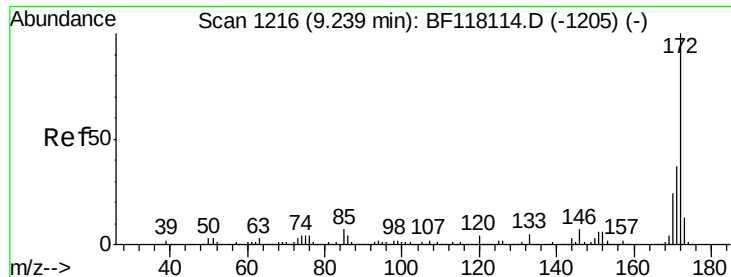
#42
2,4,6-Tribromophenol
Concen: 9.047 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Tgt Ion:330 Resp: 24967
Ion Ratio Lower Upper
330 100
332 97.2 78.1 117.1
141 32.4 26.9 40.3



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

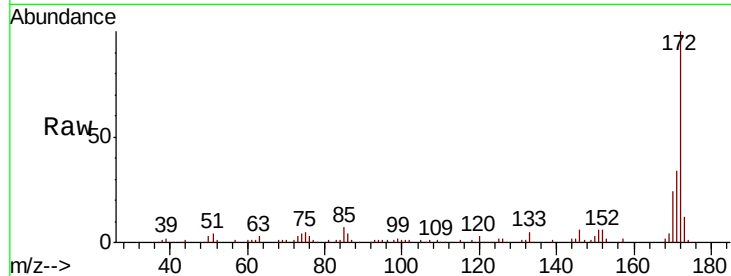




#45
 2-Fluorobiphenyl
 Concen: 7.005 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.9	29.2	43.8
170	23.6	19.4	29.2

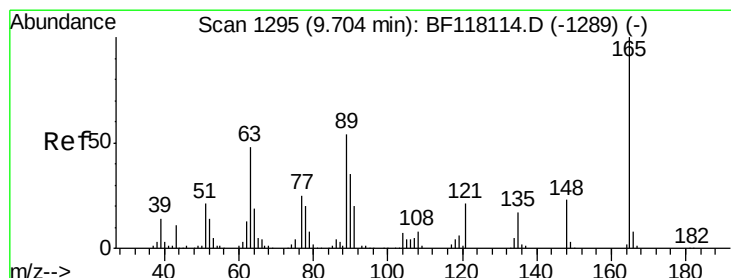
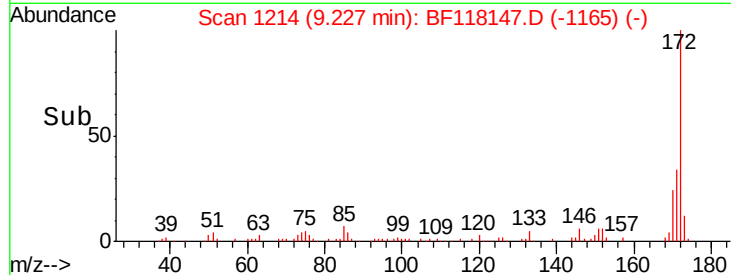
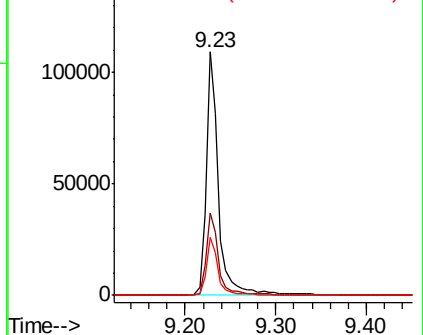


Abundance

Ion 172.00 (171.70 to 172.70): E

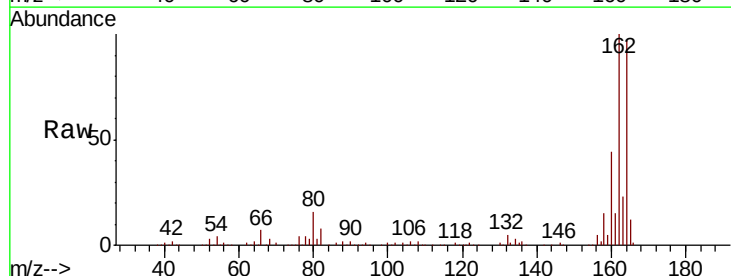
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51
 2,6-Dinitrotoluene
 Concen: 8.108 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. 0.21 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	41.4	62.0#
89	1.7	42.9	64.3#

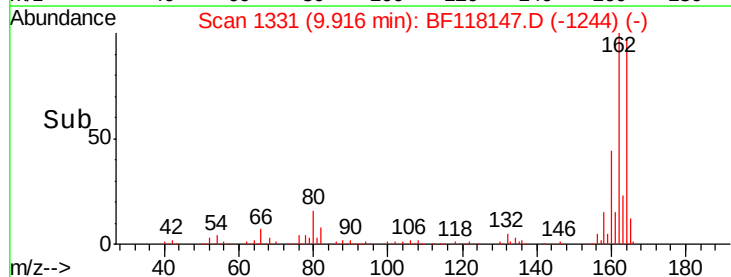
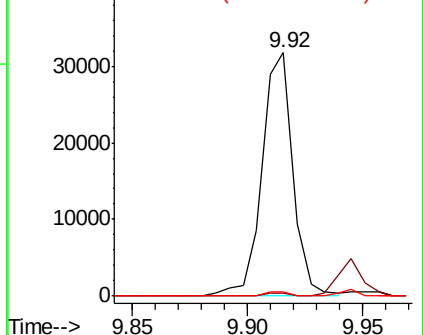


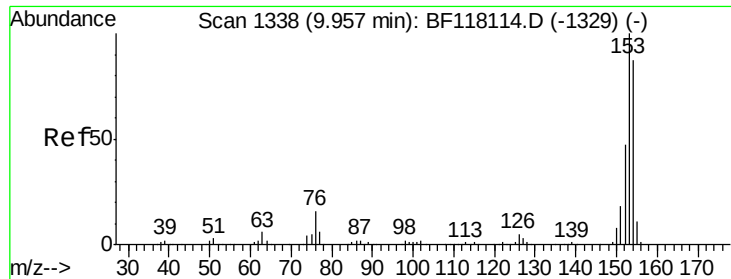
Abundance

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: 4.144 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

Instrument :

BNA_F

ClientSampled :

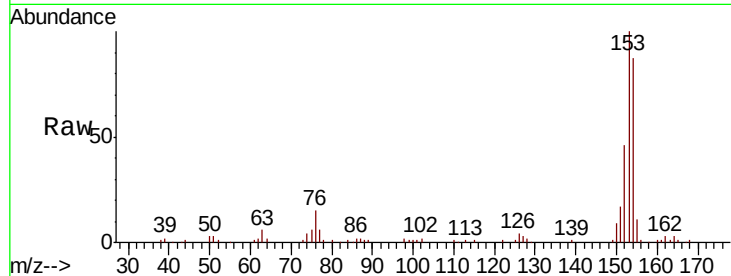
Tot Ion:154 Resp: 53763

Ion Ratio Lower Upper

154 100

153 115.5 91.8 137.6

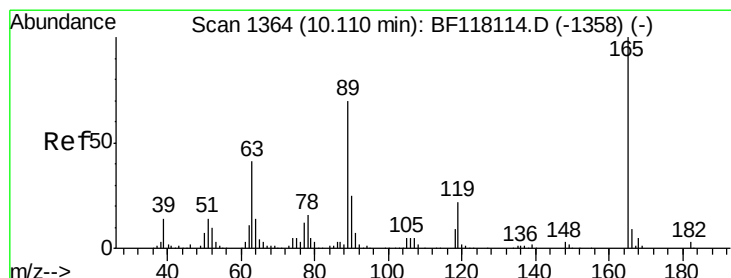
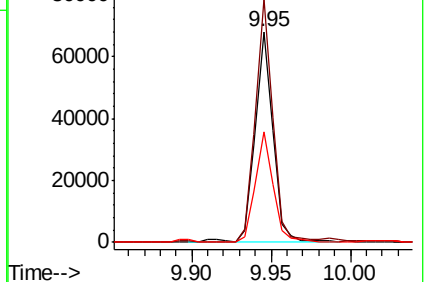
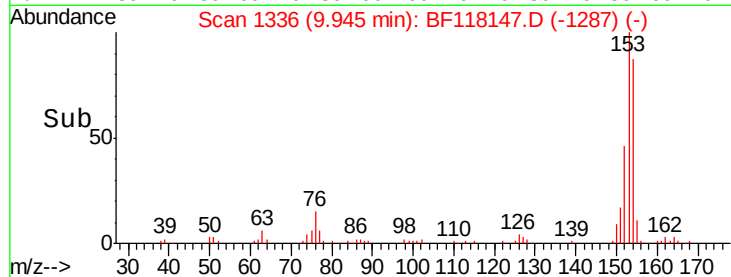
152 52.6 43.3 64.9



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



#57

2,4-Dinitrotoluene

Concen: 6.075 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.19 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

Tgt Ion:165 Resp: 29582

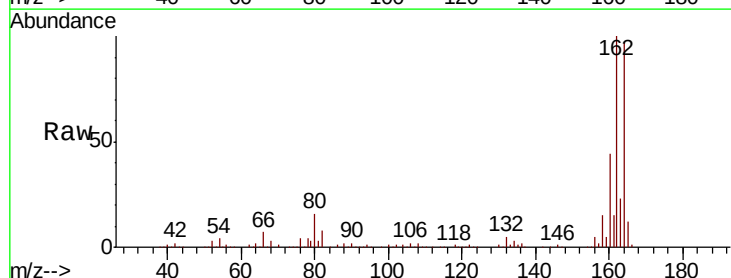
Ion Ratio Lower Upper

165 100

63 1.4 32.6 49.0#

89 1.7 56.1 84.1#

182 0.0 2.1 3.1#

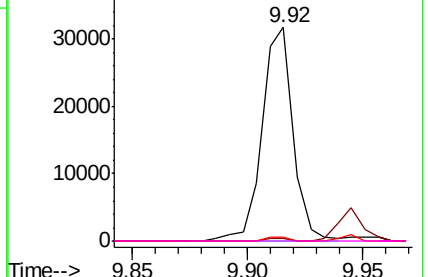
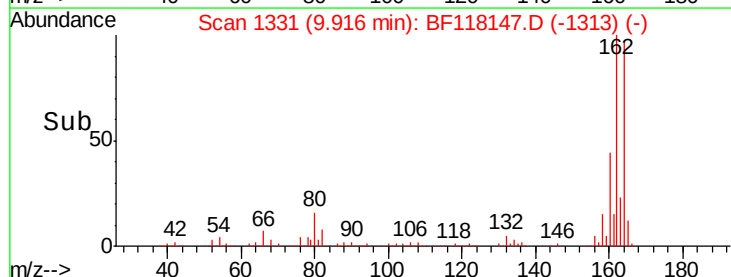


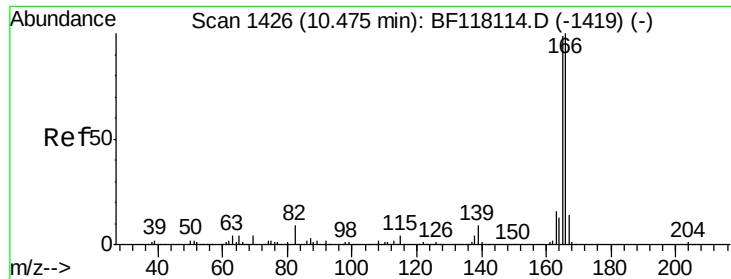
Abundance Ion 165.00 (164.70 to 165.70): E

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

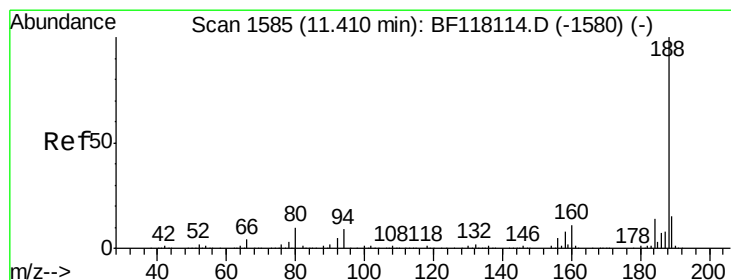
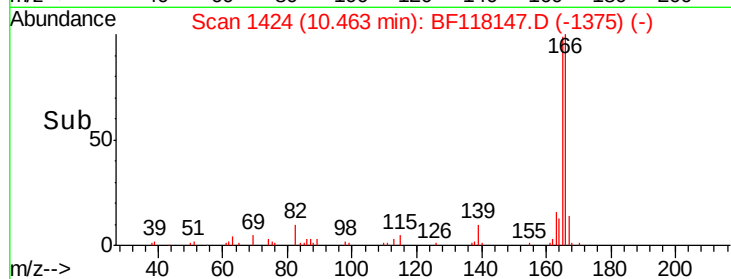
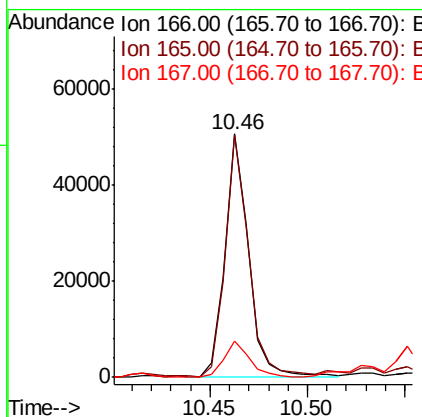
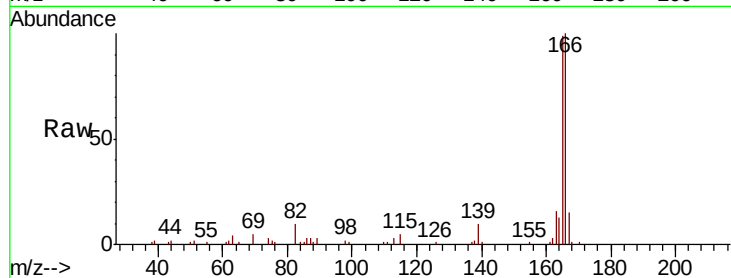




#58
 Fluorene
 Concen: 2.839 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

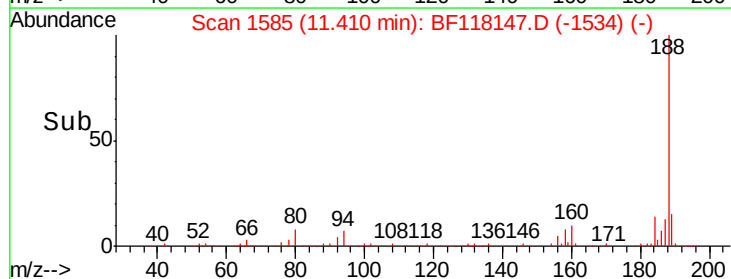
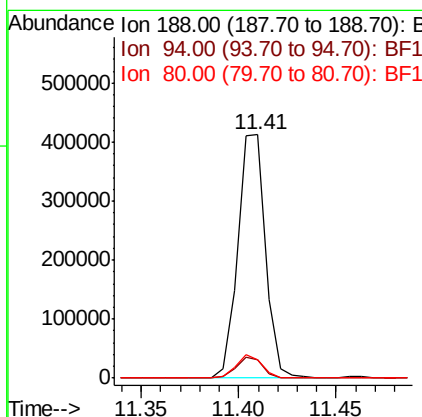
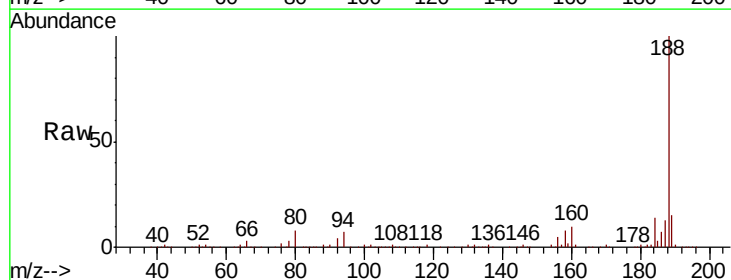
Instrument :
 BNA_F
 ClientSampleId :

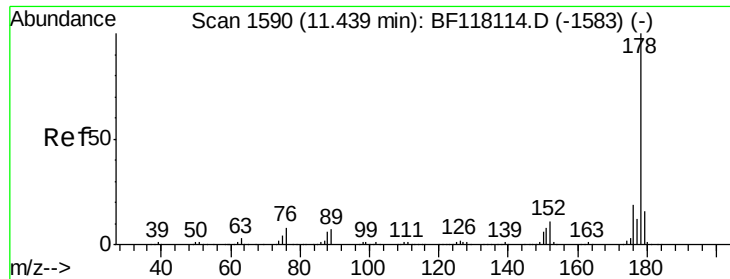
Tot Ion:166 Resp: 42897
 Ion Ratio Lower Upper
 166 100
 165 99.5 79.0 118.4
 167 15.0 10.9 16.3



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

Tgt Ion:188 Resp: 404867
 Ion Ratio Lower Upper
 188 100
 94 7.4 7.1 10.7
 80 7.7 7.9 11.9#

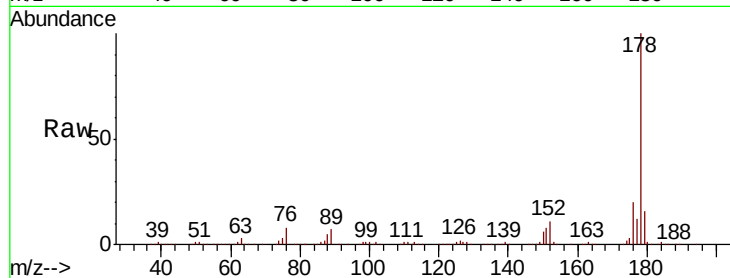




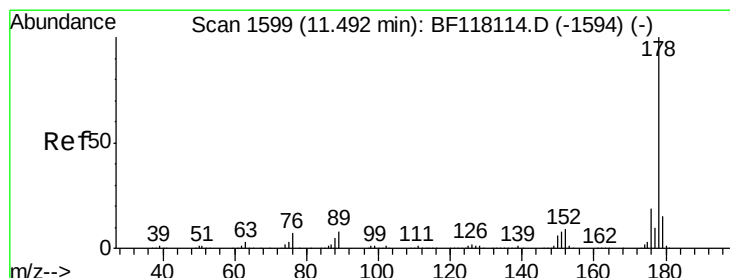
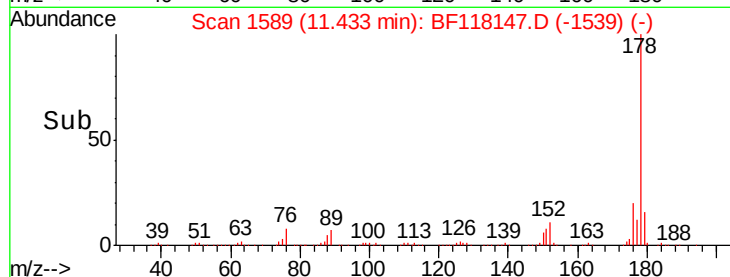
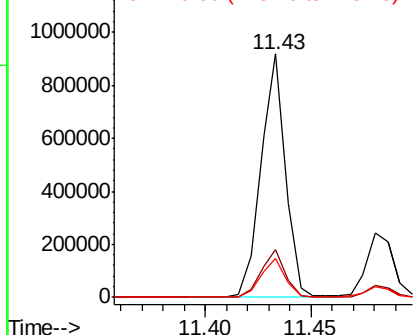
#71
Phenanthrene
Concen: 34.506 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 742650
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 15.7 12.6 18.8

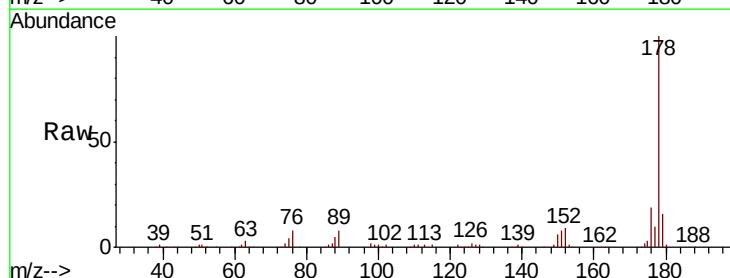


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

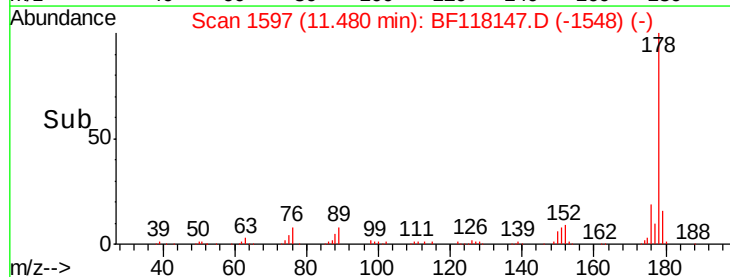
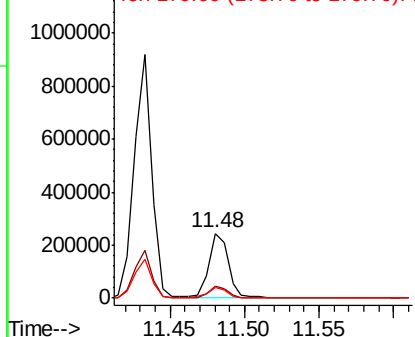


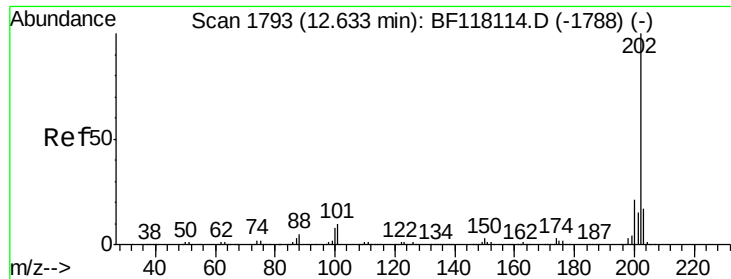
#72
Anthracene
Concen: 10.409 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Tgt Ion:178 Resp: 223474
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 16.0 12.2 18.4



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: 64.787 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

Instrument :

BNA_F

ClientSampleId :

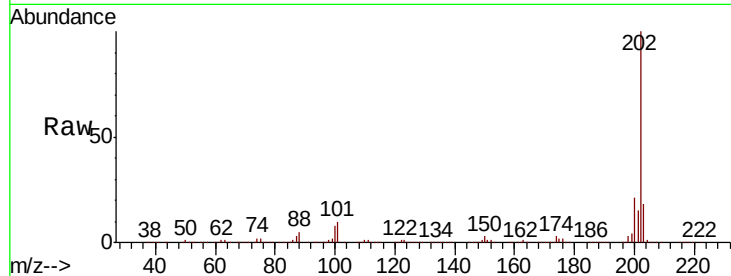
Tot Ion:202 Resp: 1425599

Ion Ratio Lower Upper

202 100

101 10.4 0.0 30.4

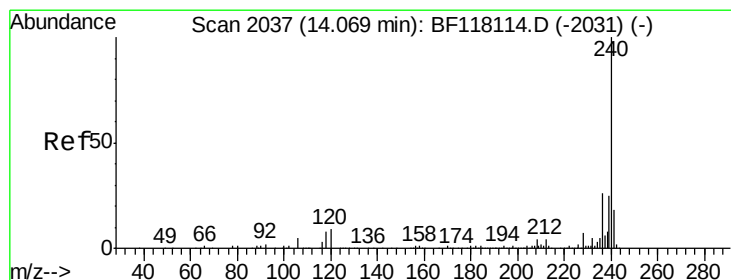
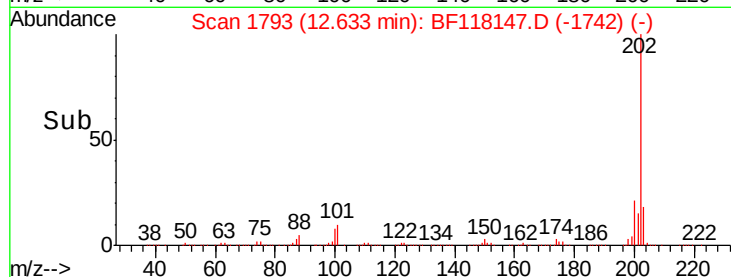
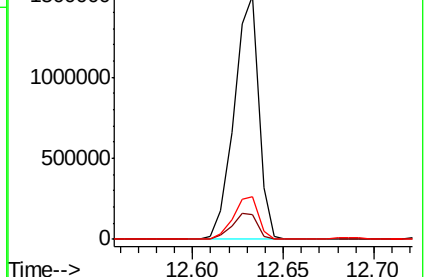
203 17.6 0.0 37.2



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: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

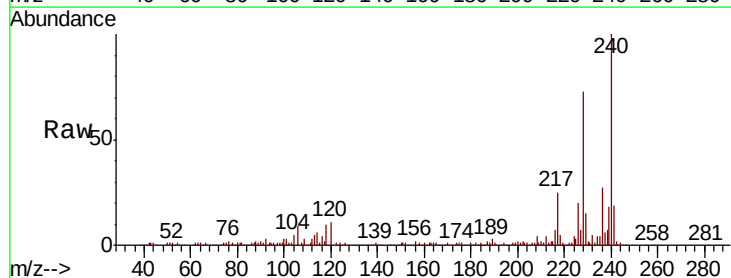
Tgt Ion:240 Resp: 227847

Ion Ratio Lower Upper

240 100

120 11.3 7.1 10.7#

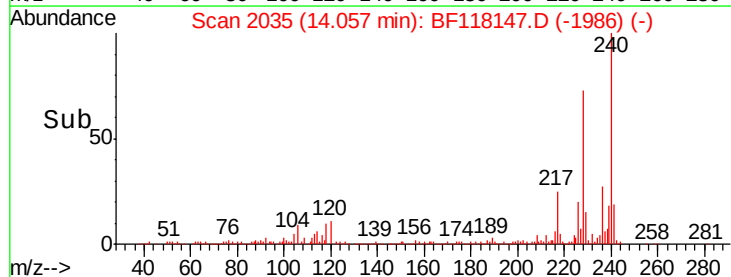
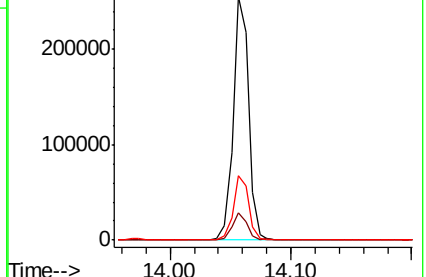
236 26.6 21.0 31.6

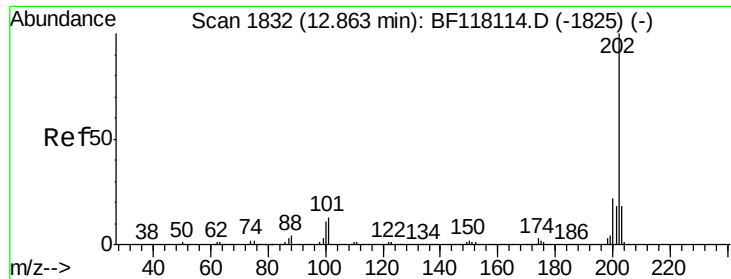


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

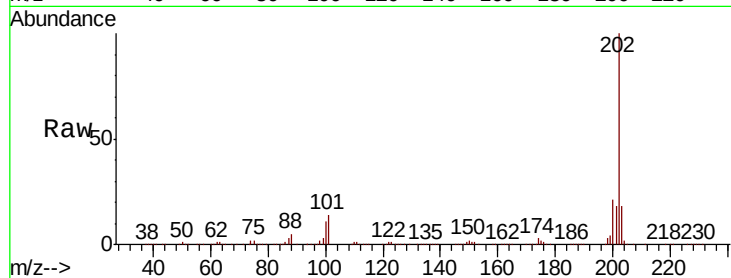




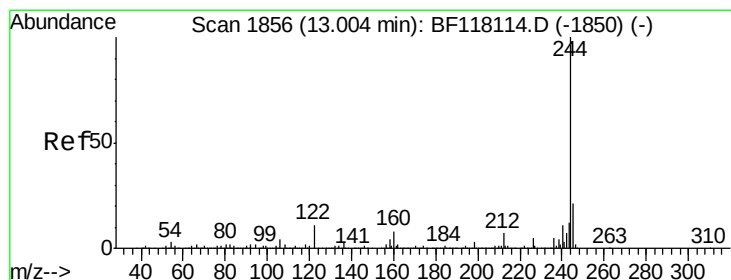
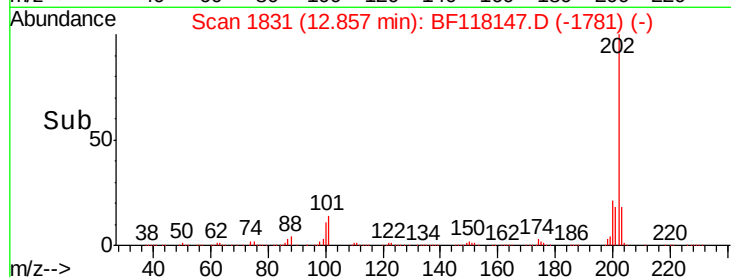
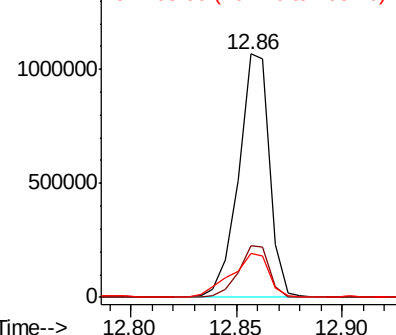
#78
Pvrene
Concen: 60.791 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 1091530
Ion Ratio Lower Upper
202 100
200 21.4 17.5 26.3
203 18.0 14.6 21.8

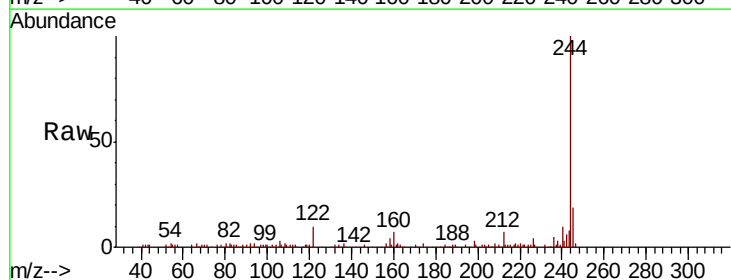


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

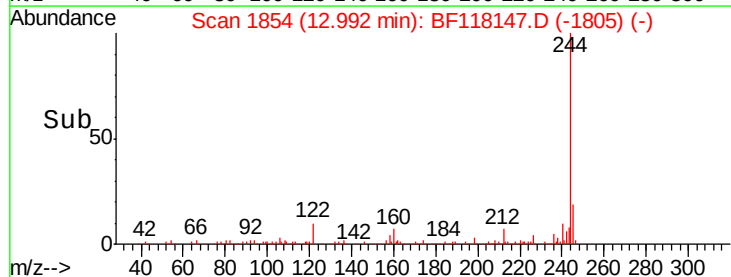
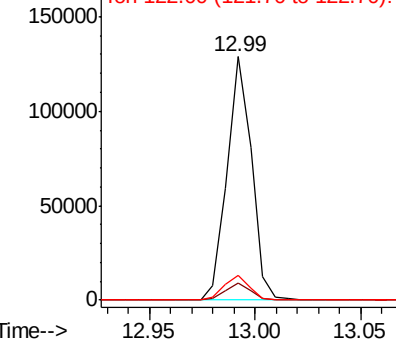


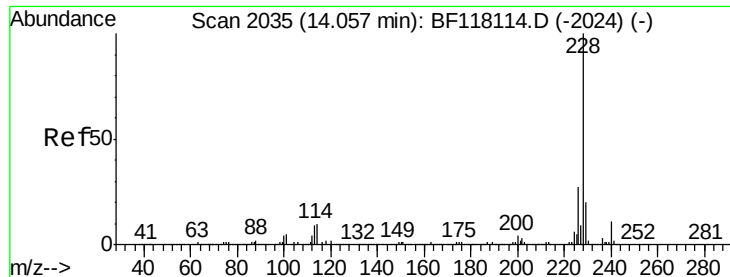
#79
Terphenyl-d14
Concen: 7.775 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Tgt Ion:244 Resp: 103012
Ion Ratio Lower Upper
244 100
212 6.9 5.9 8.9
122 9.9 9.0 13.6



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: 29.857 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

Instrument :

BNA_F

ClientSampleId :

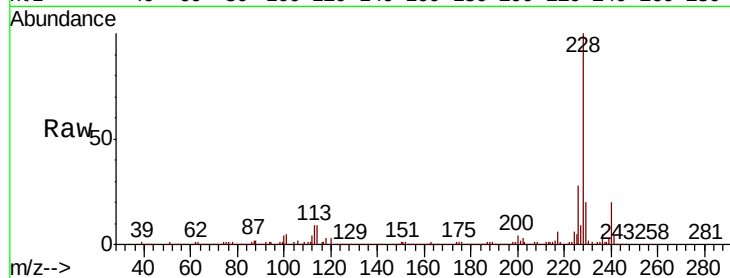
Tot Ion:228 Resp: 470401

Ion Ratio Lower Upper

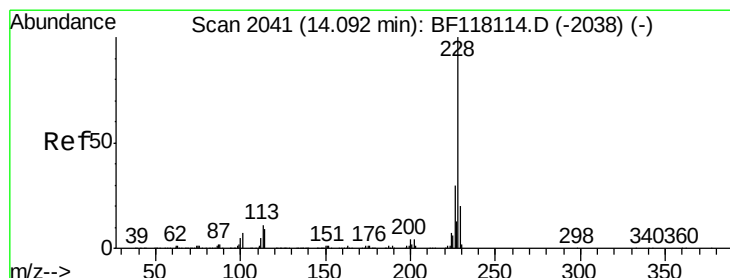
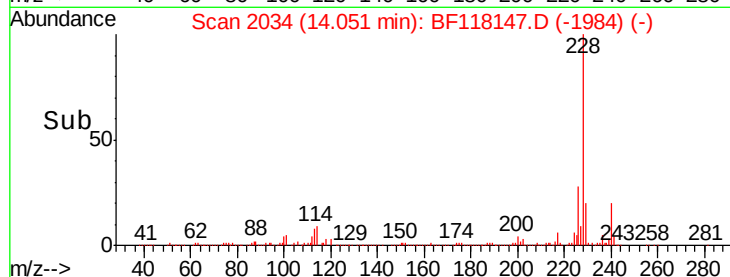
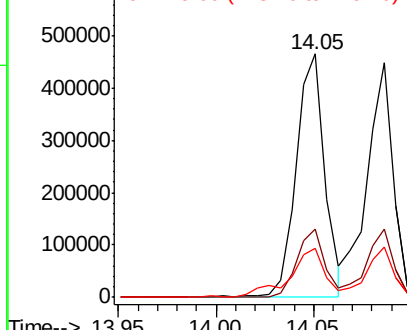
228 100

226 28.0 21.8 32.8

229 20.0 15.8 23.8



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: 27.919 ng

RT: 14.09 min Scan# 2040

Delta R.T. -0.01 min

Lab File: BF118147.D

Acq: 9 Dec 2019 16:34

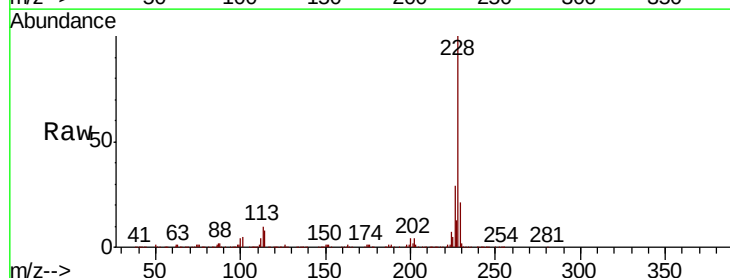
Tgt Ion:228 Resp: 420161

Ion Ratio Lower Upper

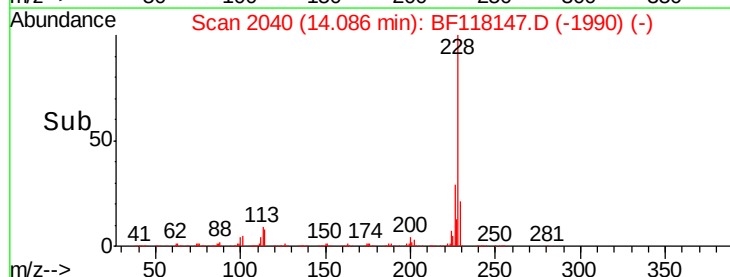
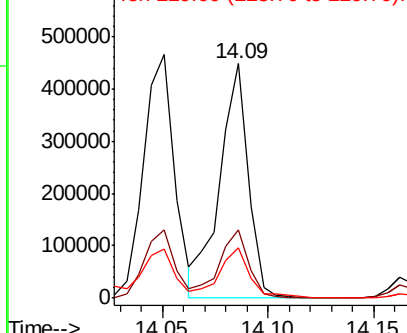
228 100

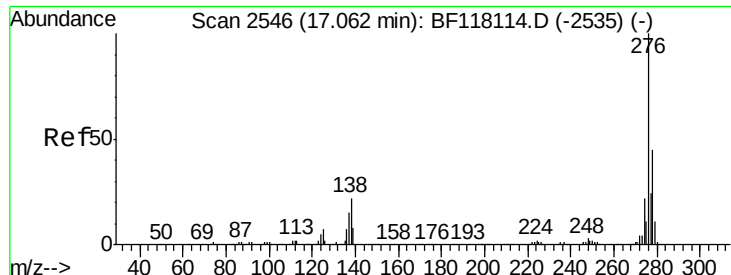
226 29.2 23.8 35.8

229 21.3 15.7 23.5



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

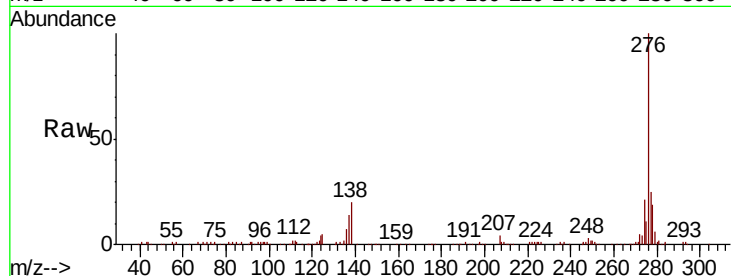




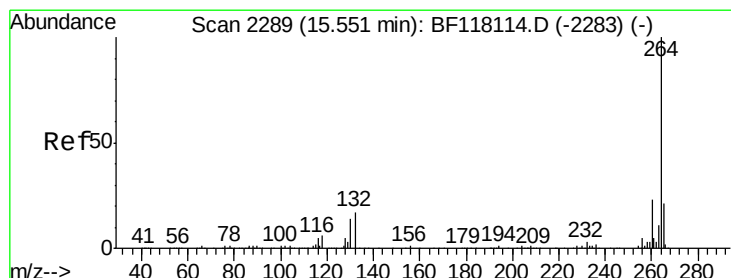
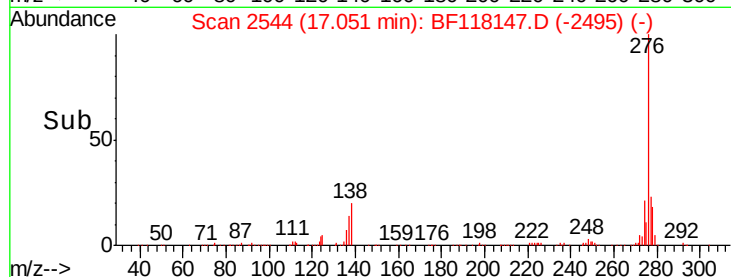
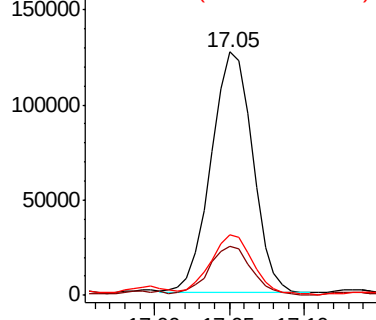
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 19.311 ng
 RT: 17.05 min Scan# 2544
 Delta R.T. -0.01 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	244535
Ion	Ratio	Lower	Upper
276	100		
138	20.3	18.9	28.3
277	25.1	20.4	30.6

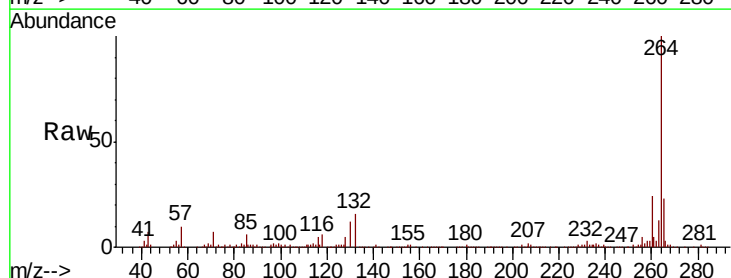


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

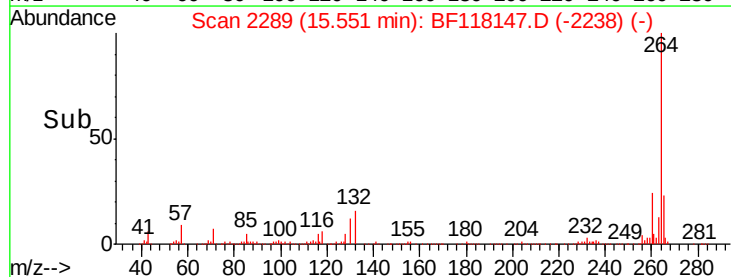
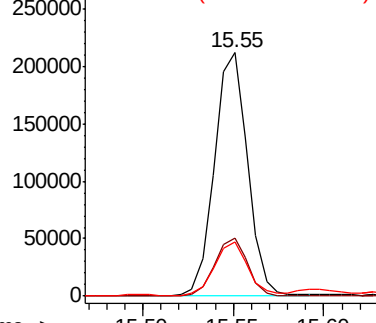


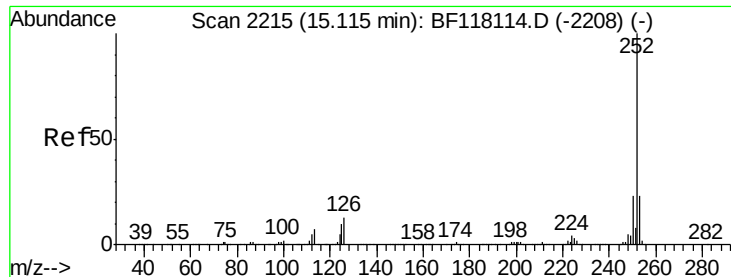
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.55 min Scan# 2289
 Delta R.T. -0.00 min
 Lab File: BF118147.D
 Acq: 9 Dec 2019 16:34

Tgt Ion:	264	Resp:	269559
Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	22.5	16.8	25.2



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

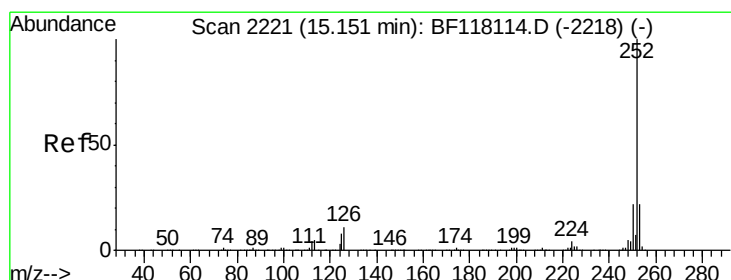
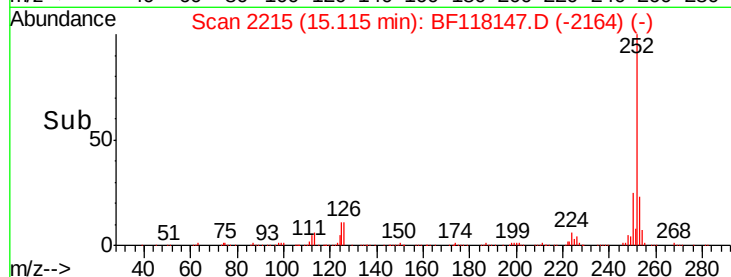
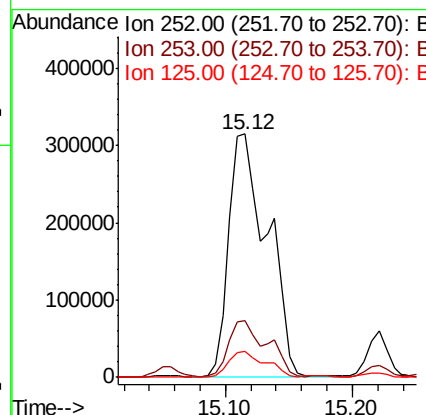
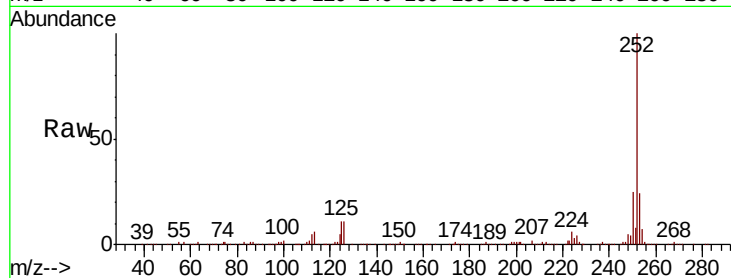




#88
Benzo(b)fluoranthene
Concen: 37.516 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.00 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

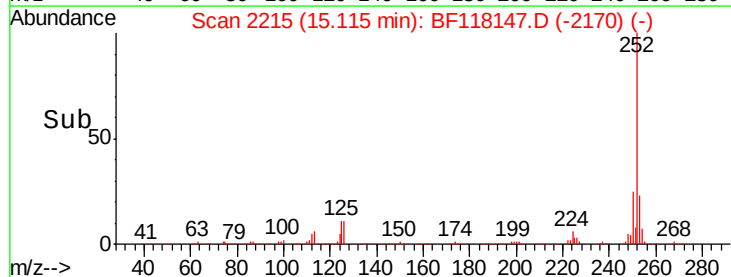
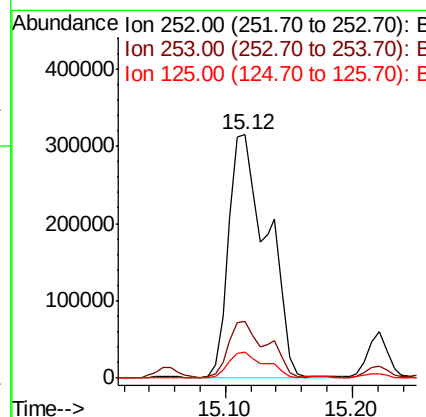
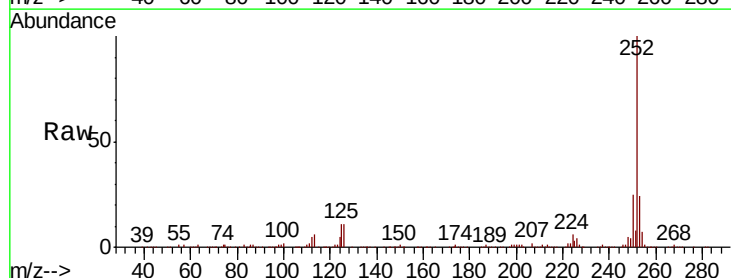
Instrument :
BNA_F
ClientSampleId :

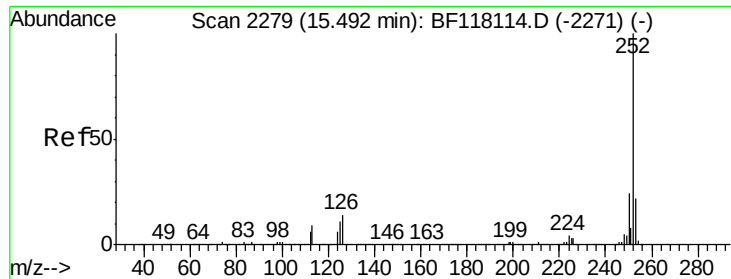
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	10.8	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 39.052 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.04 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.6	26.4
125	10.8	6.7	10.1#

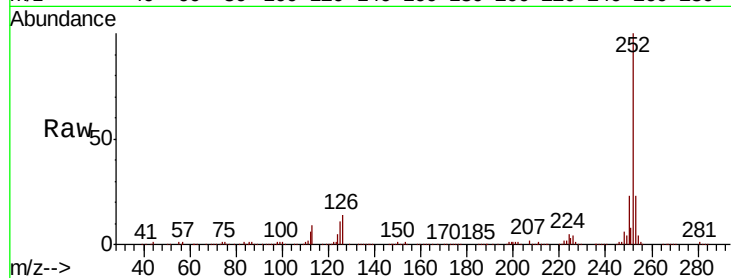




#90
Benzo(a)pyrene
Concen: 21.469 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	10.9	9.1	13.7

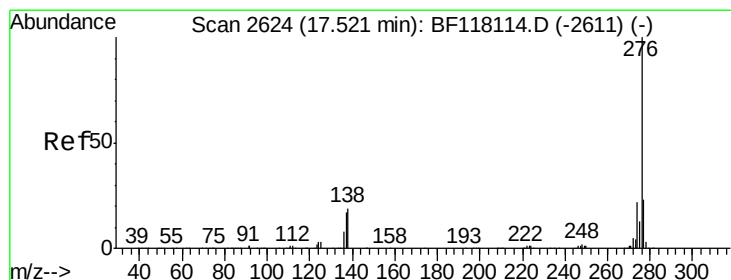
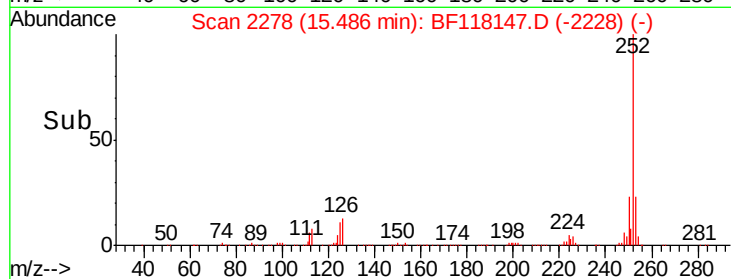
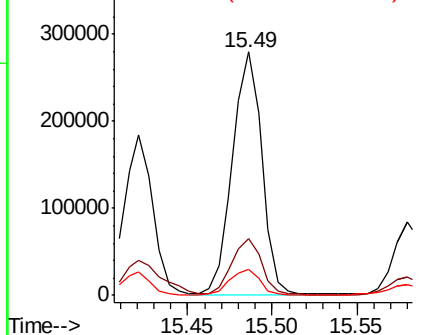


Abundance

Ion 252.00 (251.70 to 252.70): E

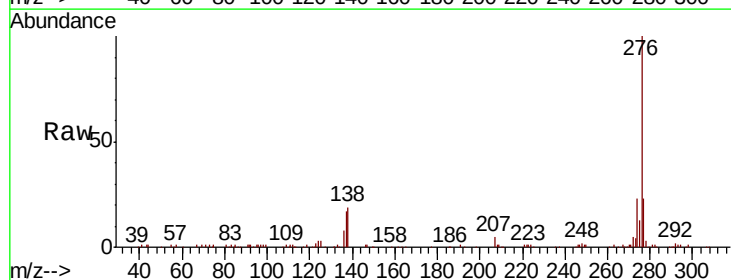
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 17.450 ng
RT: 17.51 min Scan# 2622
Delta R.T. -0.01 min
Lab File: BF118147.D
Acq: 9 Dec 2019 16:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.2	27.4
138	18.8	15.5	23.3



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

