

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
 Data File : BF116418.D
 Acq On : 20 Aug 2019 6:05
 Operator : HP/JU
 Sample : K4384-04RE 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 20 08:12:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 06:03:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	105267	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	446707	20.00	ng	-0.02
39) Acenaphthene-d10	9.83	164	246562	20.00	ng	-0.02
64) Phenanthrene-d10	11.32	188	438011	20.00	ng	-0.02
76) Chrysene-d12	13.96	240	286823	20.00	ng	-0.02
87) Perylene-d12	15.42	264	320810	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	57549	9.15	ng	0.02
7) Phenol-d6	6.47	99	92572	11.67	ng	0.00
23) Nitrobenzene-d5	7.38	82	57123	7.38	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	24295	10.16	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	123881	9.41	ng	-0.01
79) Terphenyl-d14	12.90	244	128224	9.42	ng	-0.02

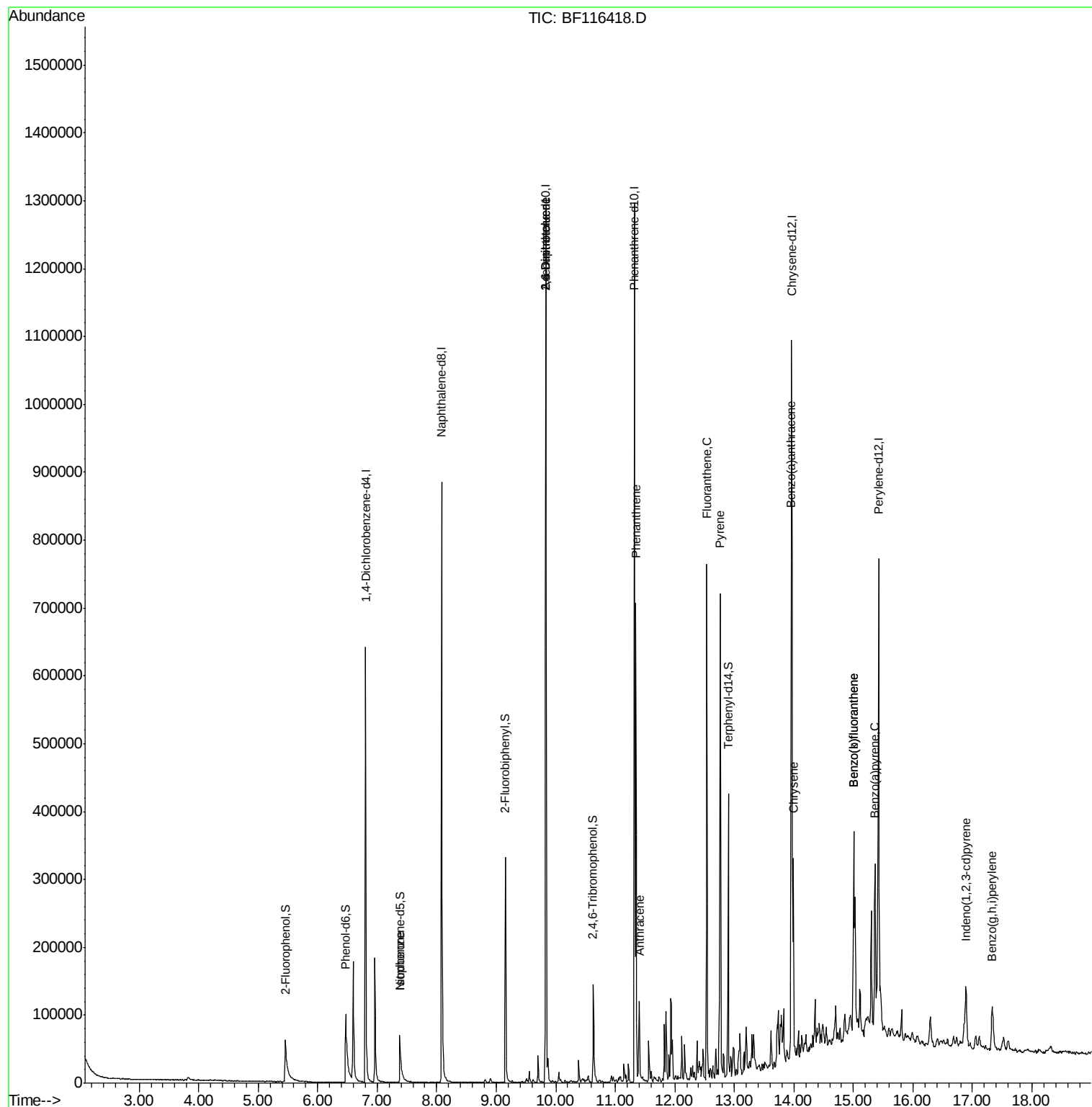
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.38	82	57123	3.860	ng	# 65
51) 2,6-Dinitrotoluene	9.83	165	31465	8.624	ng	# 28
57) 2,4-Dinitrotoluene	9.83	165	31465	6.478	ng	# 20
71) Phenanthrene	11.34	178	251096	11.214	ng	98
72) Anthracene	11.40	178	53910	2.379	ng	98
75) Fluoranthene	12.54	202	320743	13.682	ng	99
78) Pyrene	12.76	202	294197	13.607	ng	99
81) Benzo(a)anthracene	13.95	228	130112	7.097	ng	99
83) Chrysene	13.99	228	119225	6.699	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	63135	4.223	ng	95
88) Benzo(b)fluoranthene	15.00	252	203323	10.961	ng	98
89) Benzo(k)fluoranthene	15.00	252	203323	11.254	ng	# 98
90) Benzo(a)pyrene	15.36	252	117775	7.103	ng	99
92) Benzo(a,h,i)perylene	17.33	276	61457	4.360	ng	98

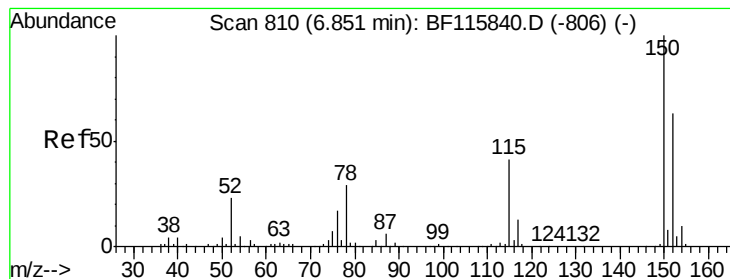
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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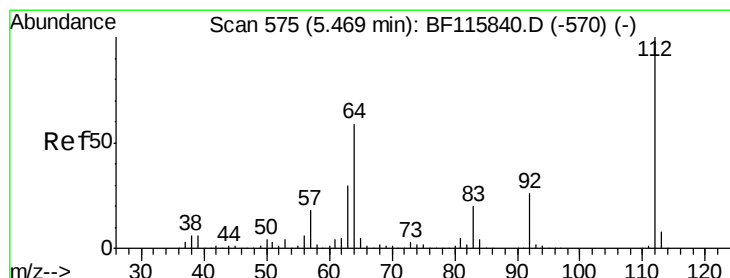
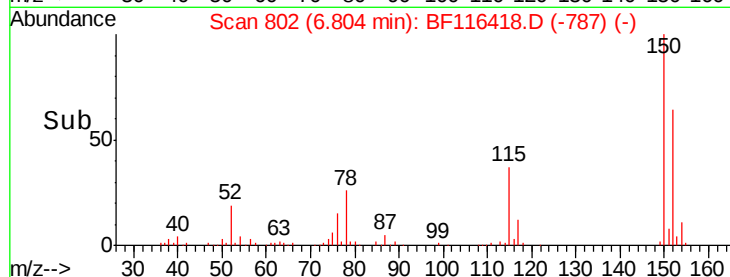
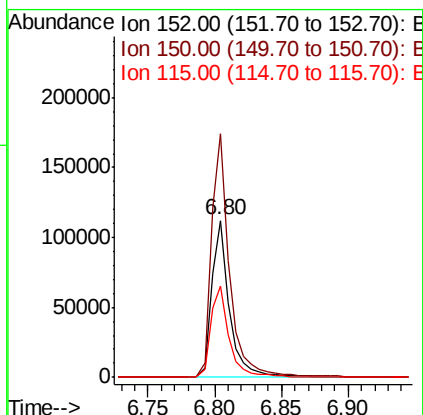
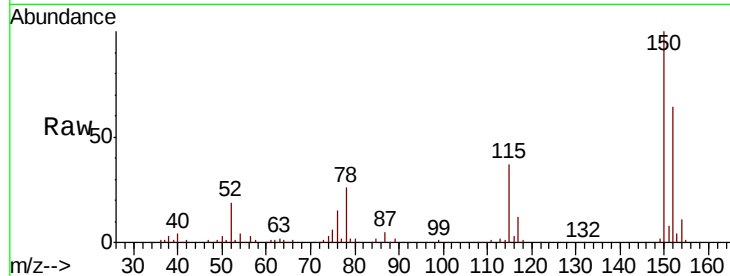


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampled :

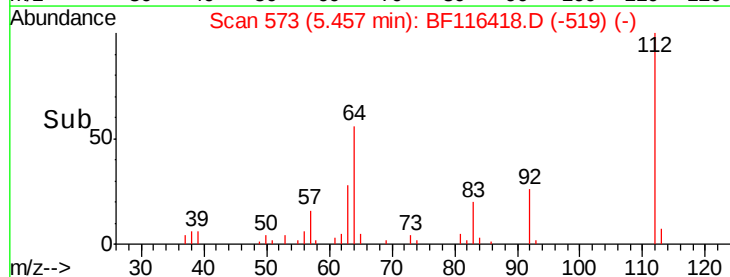
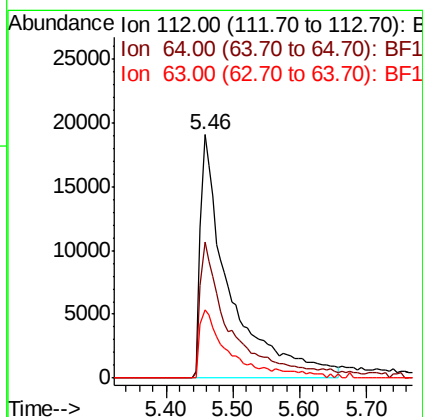
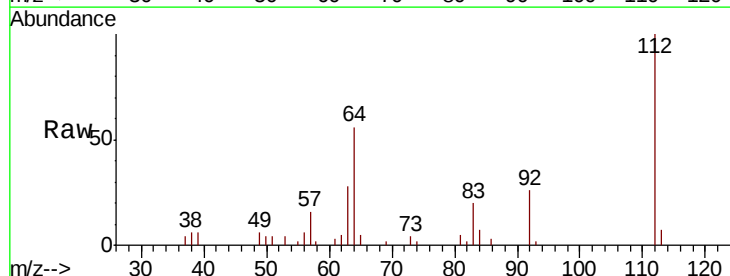
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	126.2	189.2
115	57.9	49.9	74.9



#5

2-Fluorophenol
Concen: 9.152 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	45.4	68.2
63	28.1	23.7	35.5





#7

Phenol-d6

Concen: 11.668 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

ClientSampleId :

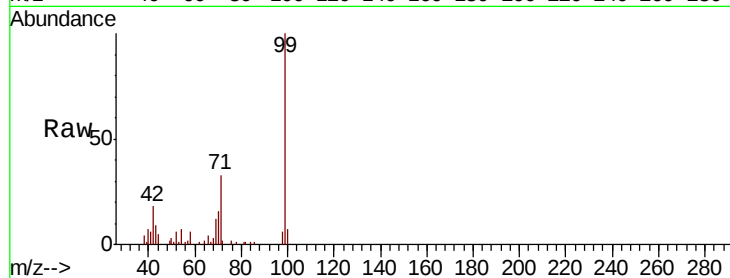
Tot Ion: 99 Resp: 92572

Ion Ratio Lower Upper

99 100

42 18.2 13.8 20.8

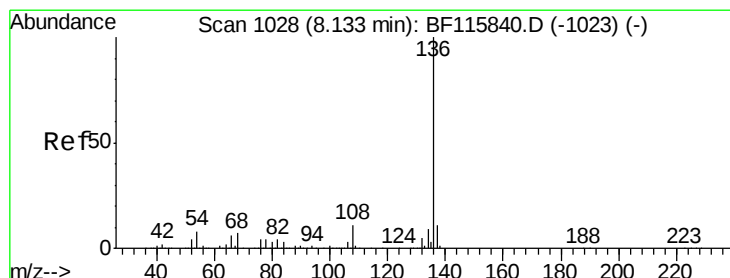
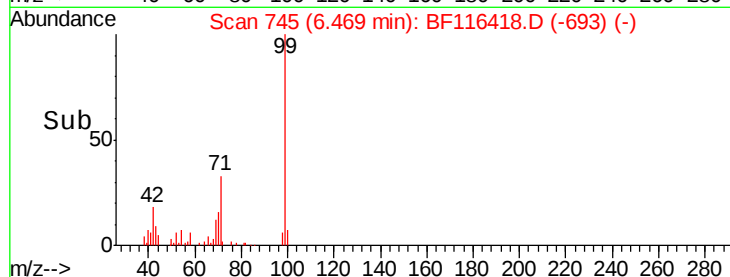
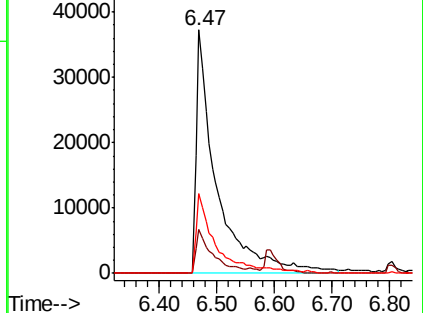
71 32.7 27.3 40.9



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: 8.08 min Scan# 1019

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Tgt Ion: 136 Resp: 446707

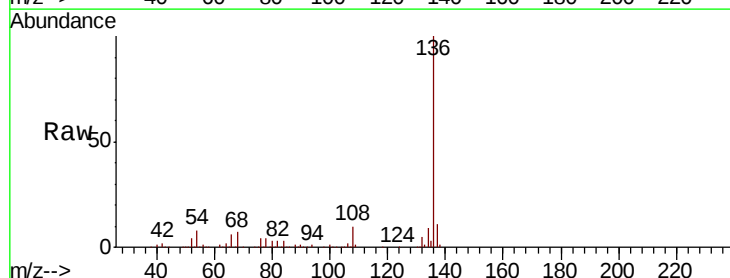
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 7.6 5.8 8.6

68 6.6 5.2 7.8

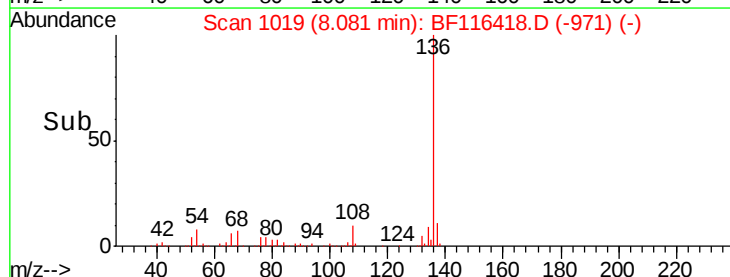
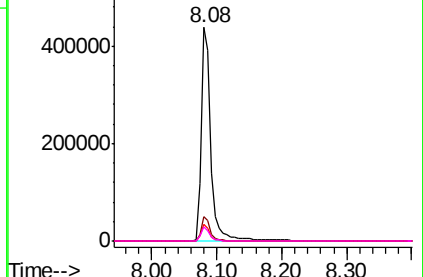


Abundance Ion 136.00 (135.70 to 136.70): E

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

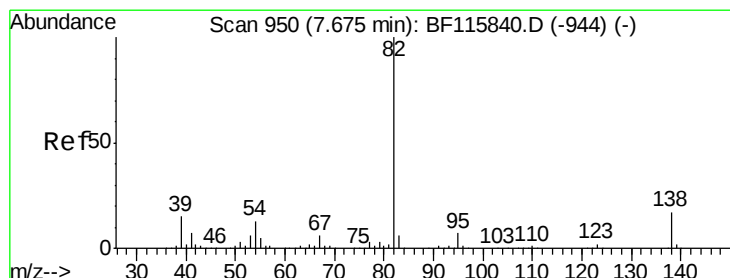
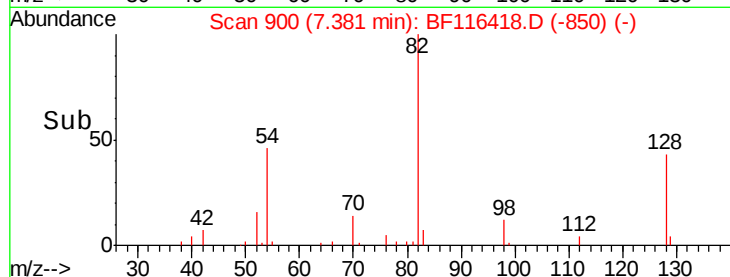
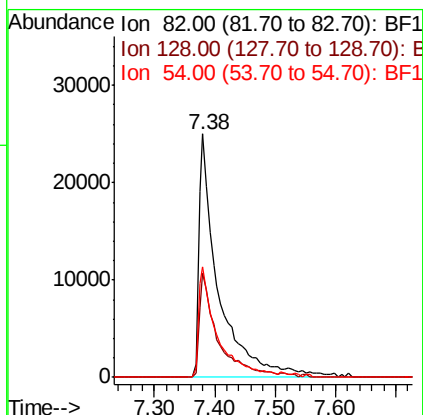
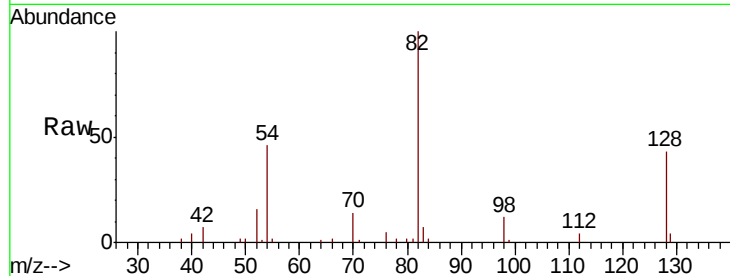




#23
Nitrobenzene-d5
Concen: 7.381 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

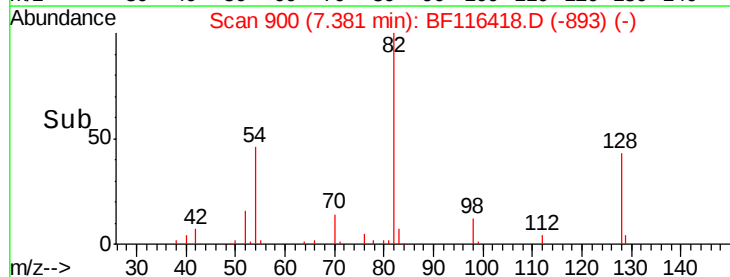
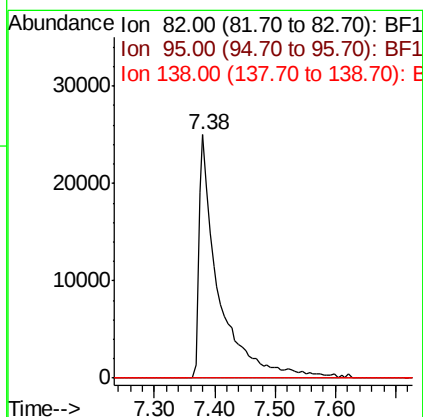
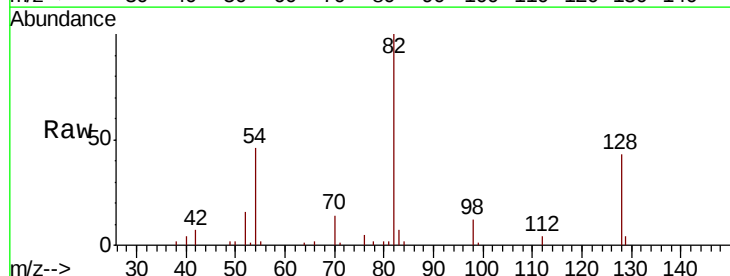
Instrument :
BNA_F
ClientSampleId :

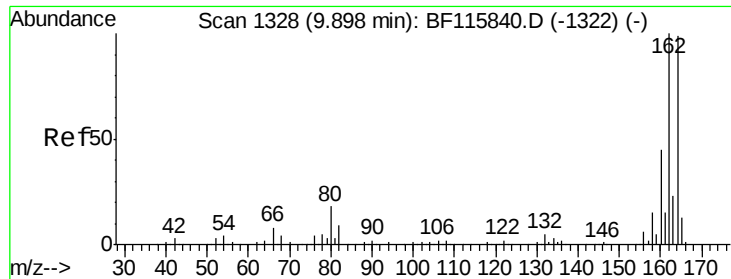
Tot Ion: 82 Resp: 57123
Ion Ratio Lower Upper
82 100
128 42.5 36.5 54.7
54 45.5 36.0 54.0



#25
Isophorone
Concen: 3.860 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.26 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion: 82 Resp: 57123
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.0#
138 0.0 14.5 21.7#

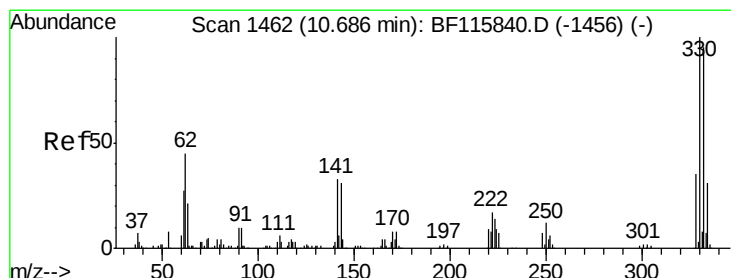
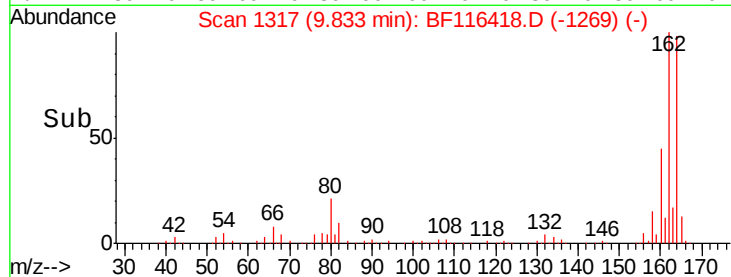
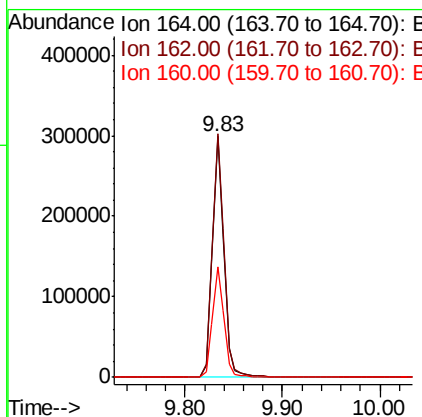
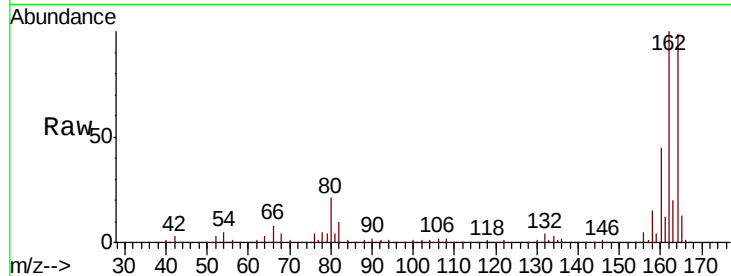




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

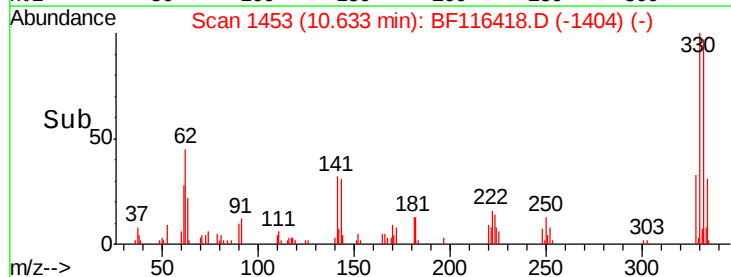
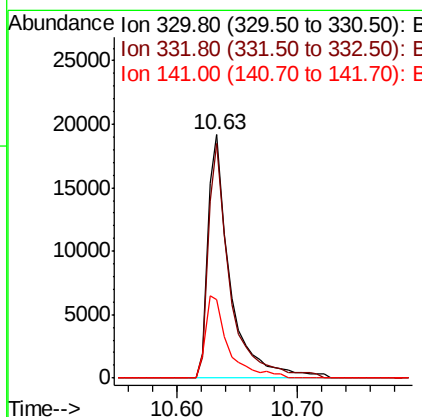
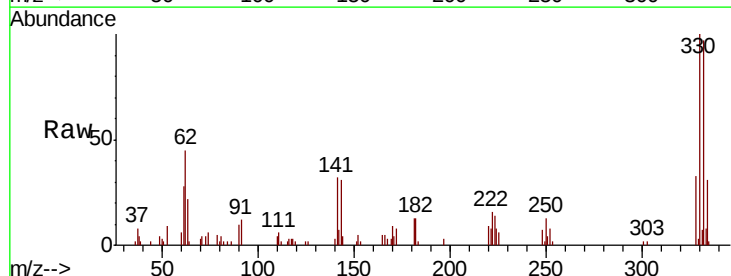
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.6	124.0
160	46.0	37.6	56.4



#42
 2,4,6-Tribromophenol
 Concen: 10.163 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.0	76.8	115.2
141	34.5	26.3	39.5

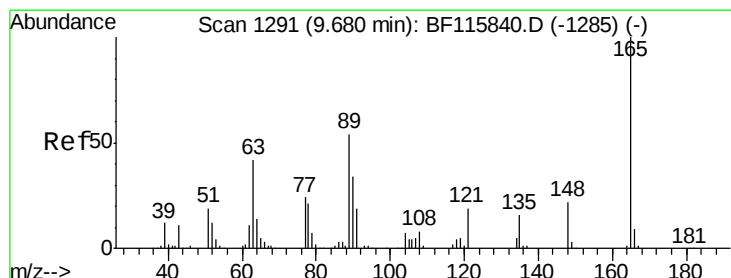
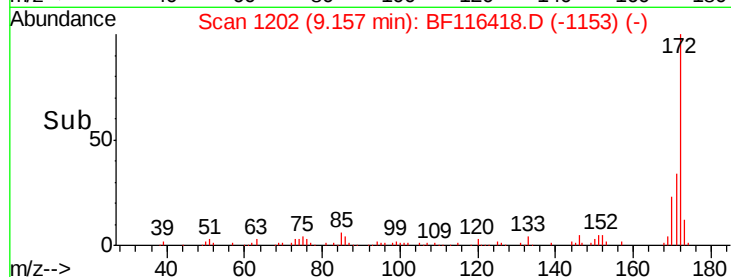
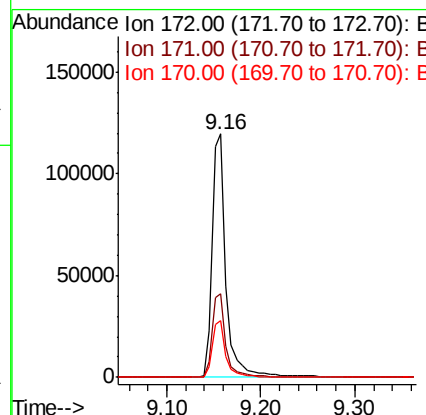
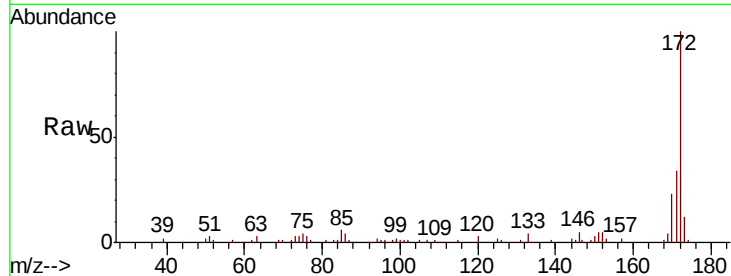




#45
 2-Fluorobiphenyl
 Concen: 9.411 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

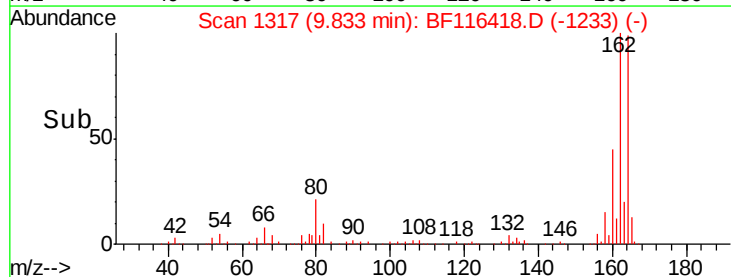
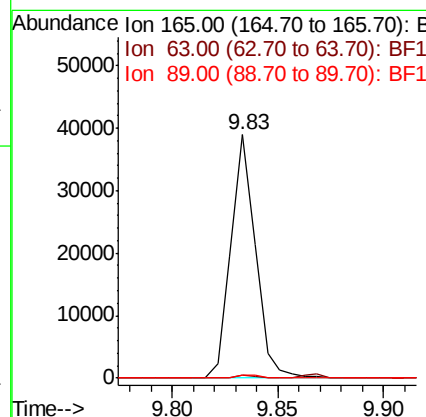
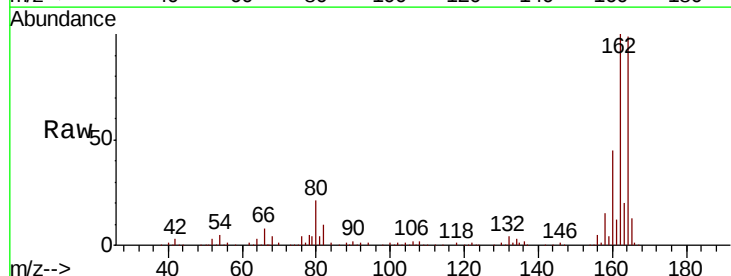
Instrument :
 BNA_F
 ClientSampleId :

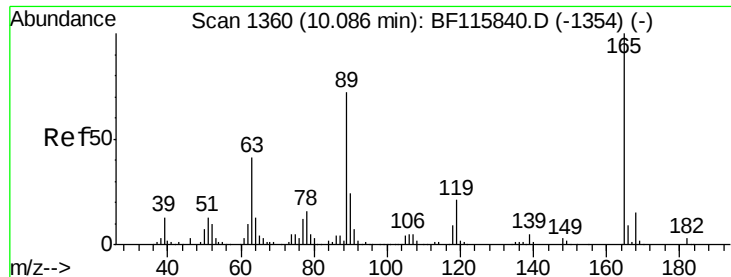
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.2	29.6	44.4
170	23.1	20.1	30.1



#51
 2,6-Dinitrotoluene
 Concen: 8.624 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. 0.19 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	38.2	57.2#
89	1.1	42.9	64.3#

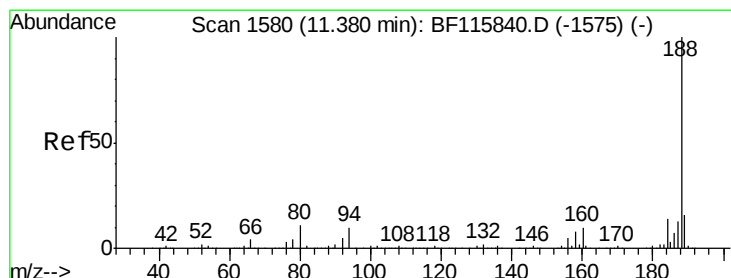
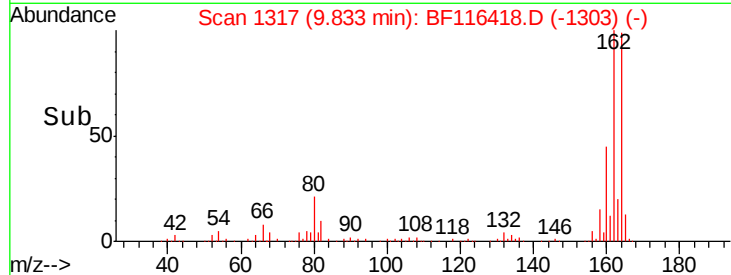
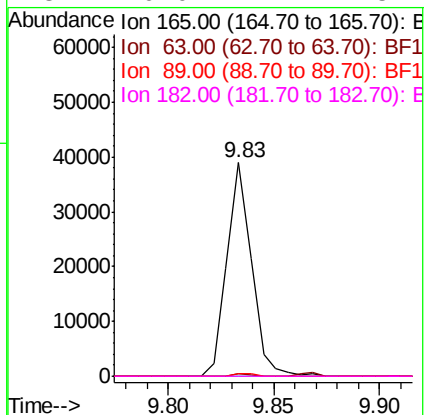
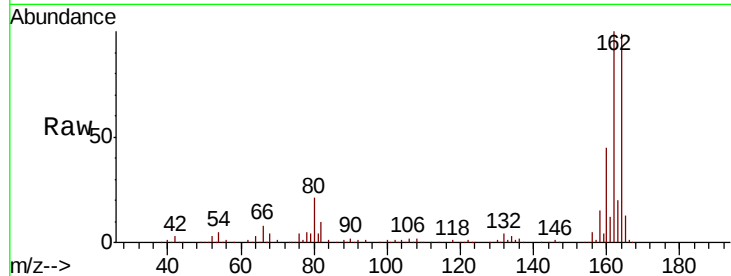




#57
 2,4-Dinitrotoluene
 Concen: 6.478 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.22 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

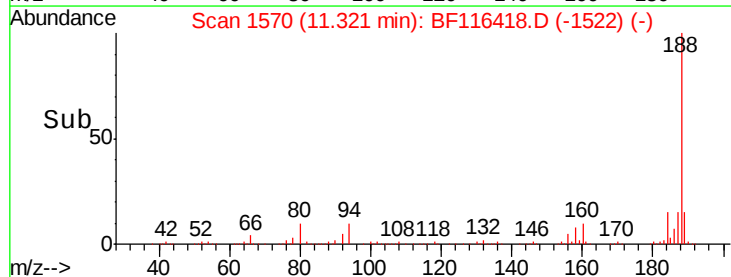
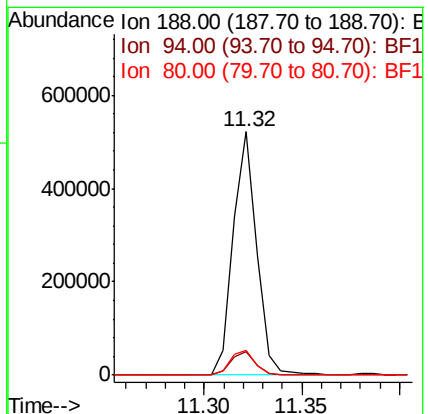
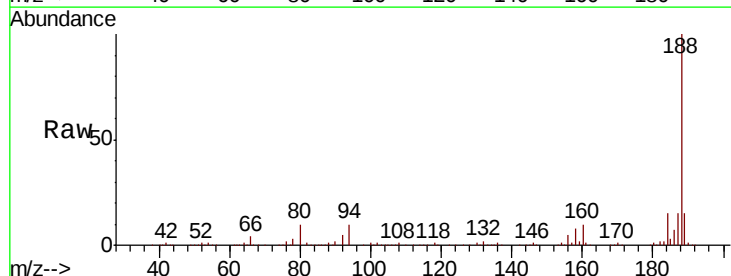
Instrument :
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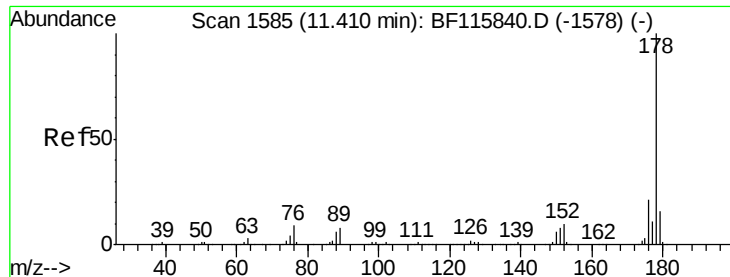
Tot Ion:165	Resp:	31465
Ion Ratio	Lower	Upper
165	100	
63	1.1	39.6 59.4#
89	1.1	62.2 93.2#
182	0.0	2.1 3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.02 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Tgt Ion:188	Resp:	438011
Ion Ratio	Lower	Upper
188	100	
94	9.5	8.1 12.1
80	10.3	8.7 13.1





#71

Phenanthrene

Concen: 11.214 ng

RT: 11.34 min Scan# 1574

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

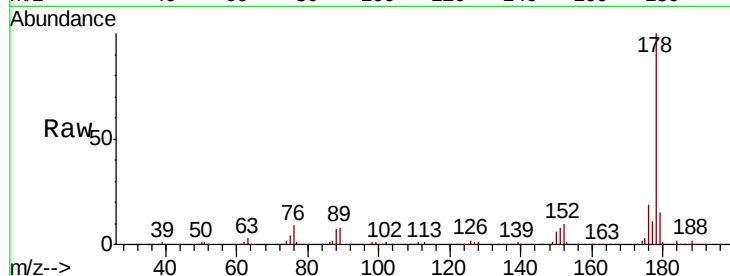
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 251096

Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.6	24.8
179	15.4	12.5	18.7

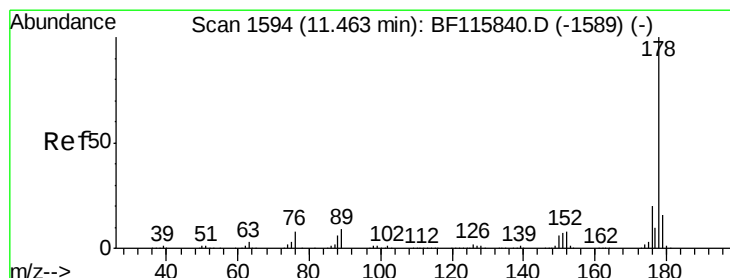
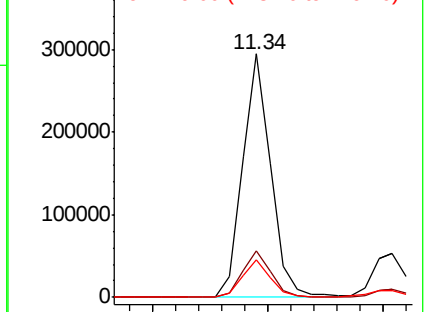
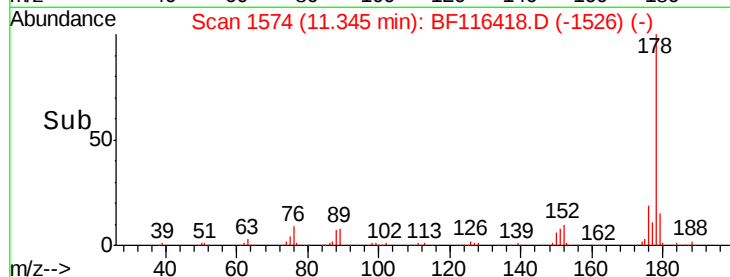


Abundance

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: 2.379 ng

RT: 11.40 min Scan# 1584

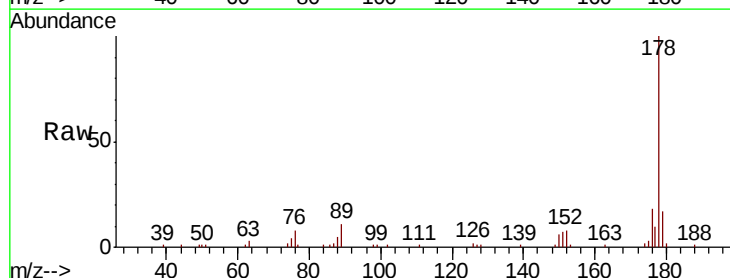
Delta R.T. -0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Tgt Ion:178 Resp: 53910

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.7	23.5
179	16.6	13.0	19.6

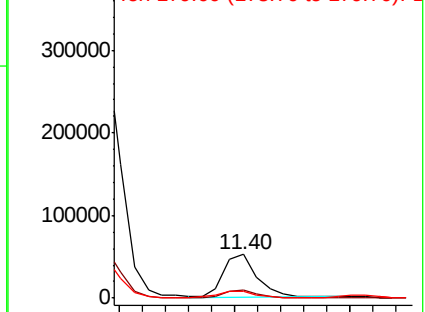
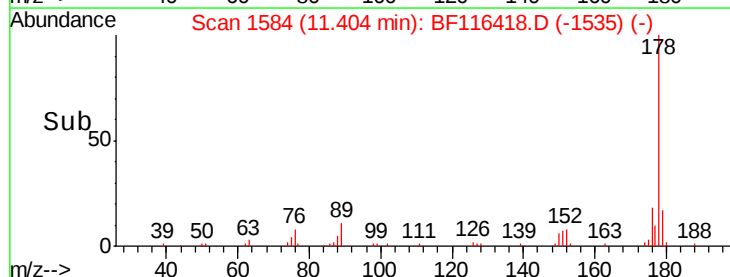


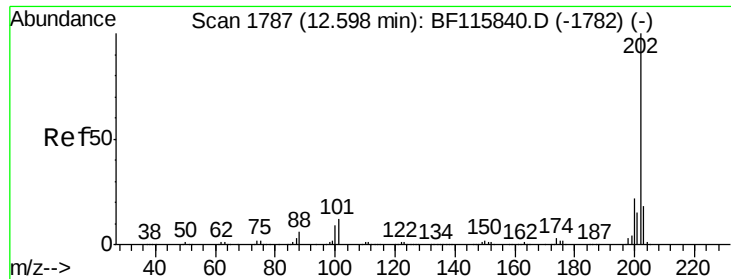
Abundance

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: 13.682 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

ClientSampleId :

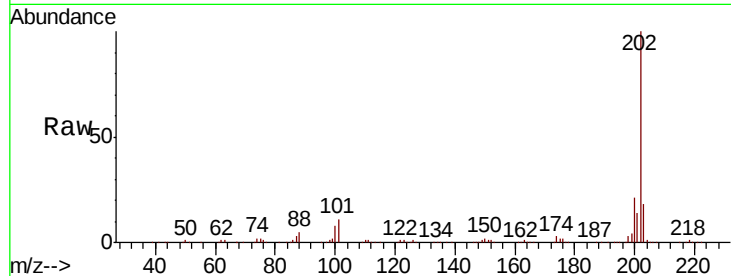
Tot Ion:202 Resp: 320743

Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.2

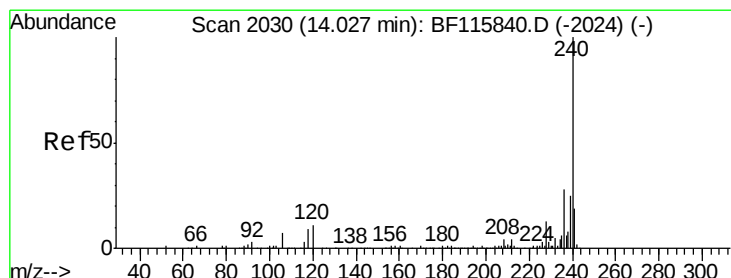
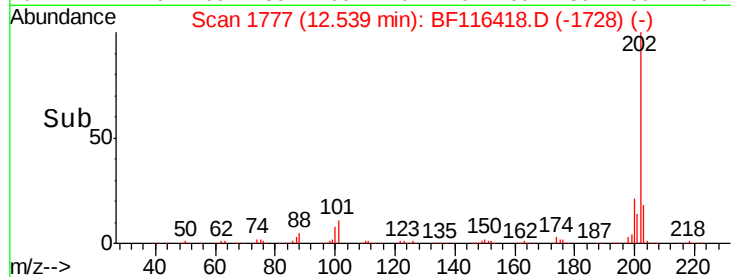
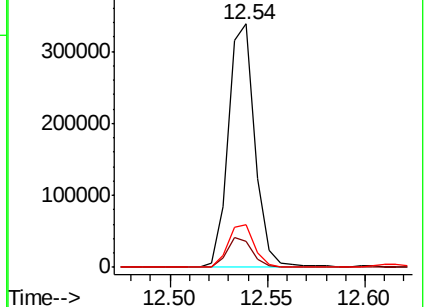
203 17.5 0.0 37.8



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: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

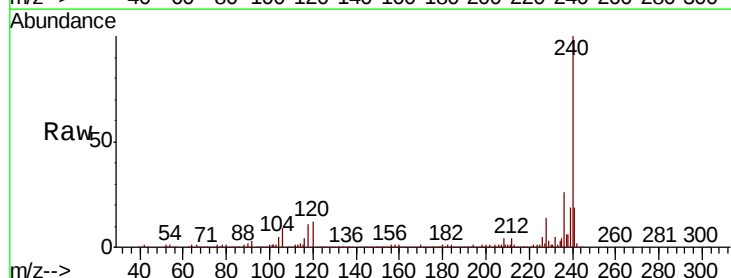
Tgt Ion:240 Resp: 286823

Ion Ratio Lower Upper

240 100

120 12.2 10.7 16.1

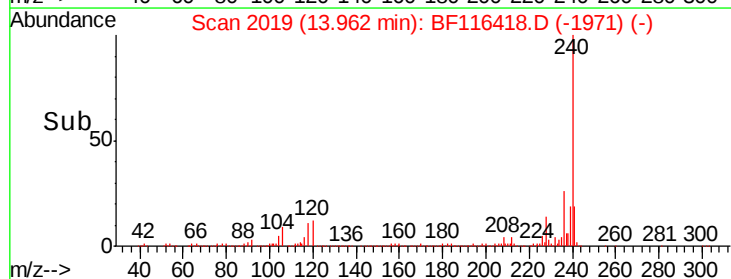
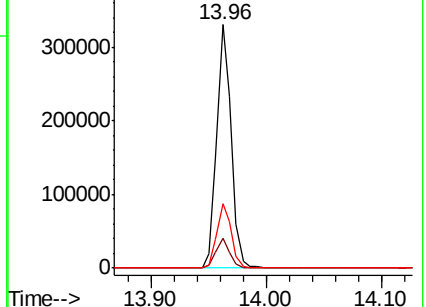
236 26.5 22.2 33.2

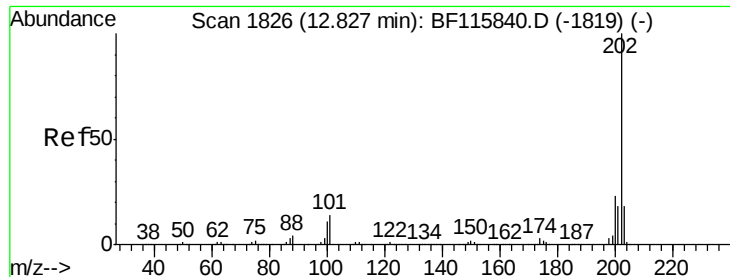


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 13.607 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

ClientSampleId :

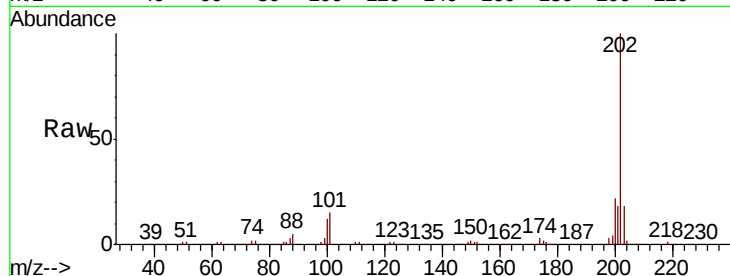
Tot Ion:202 Resp: 294197

Ion Ratio Lower Upper

202 100

200 21.6 18.0 27.0

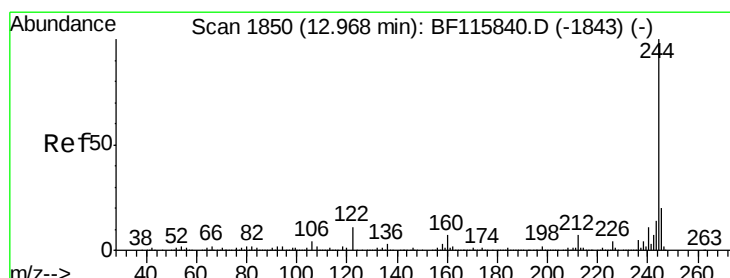
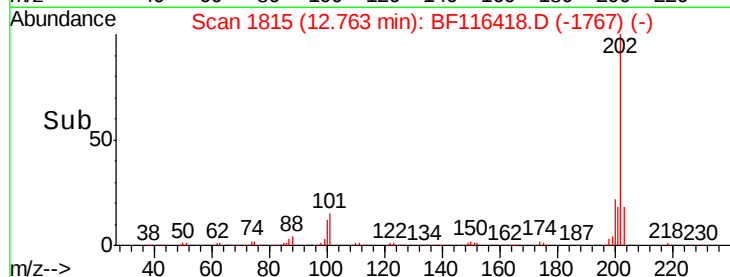
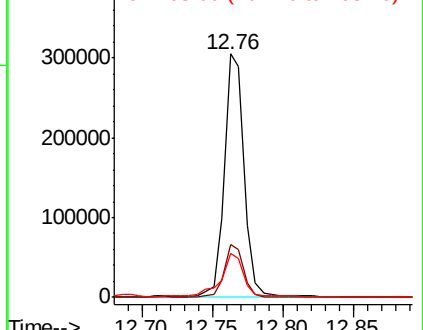
203 17.9 14.1 21.1



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: 9.420 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

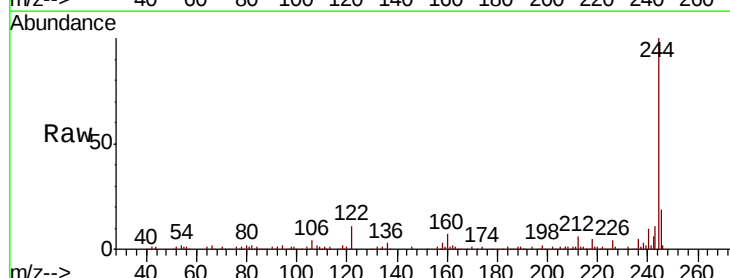
Tgt Ion:244 Resp: 128224

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

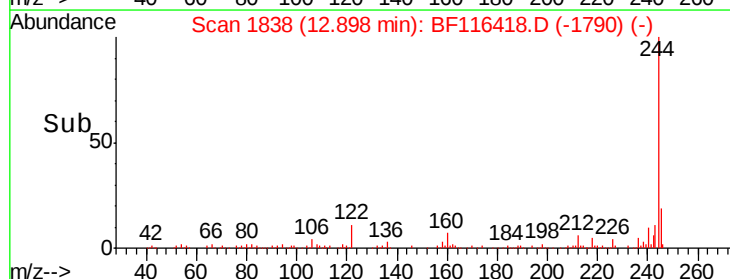
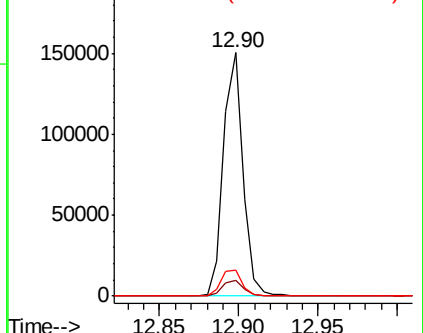
122 10.6 9.0 13.4

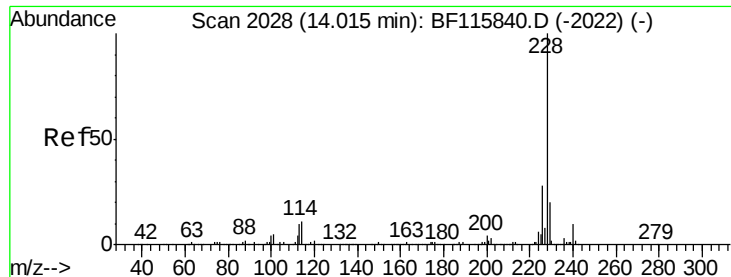


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

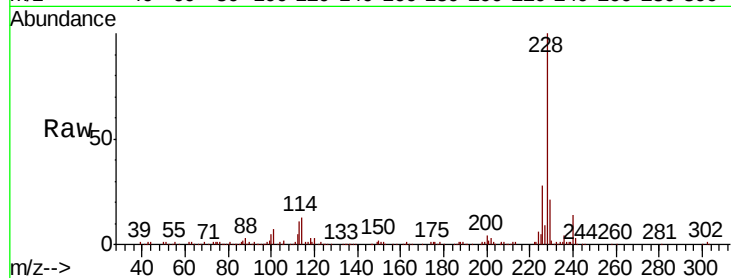




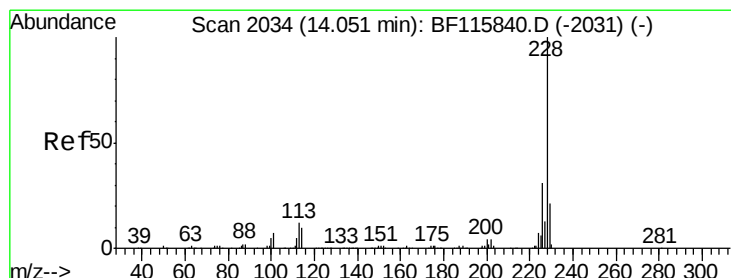
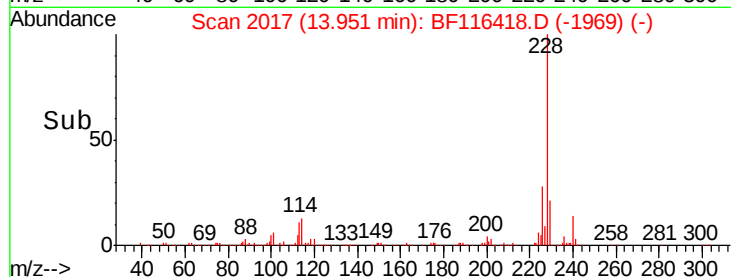
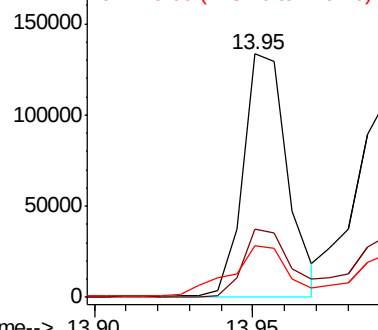
#81
Benzo(a)anthracene
Concen: 7.097 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.02 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.7	34.1
229	21.1	16.2	24.4

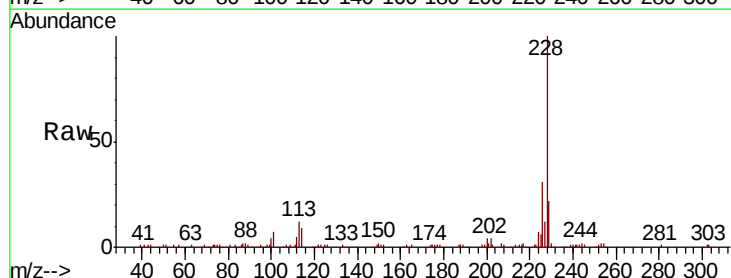


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

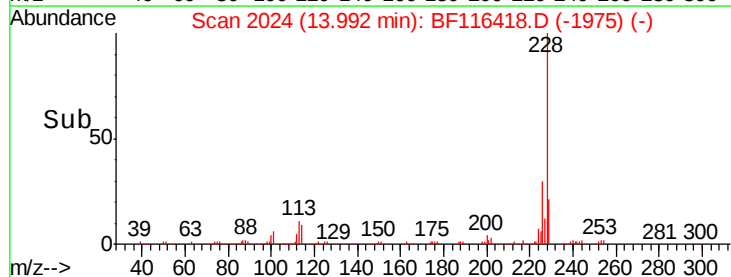
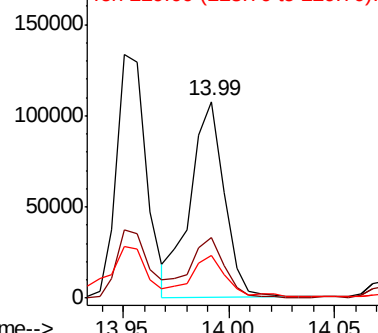


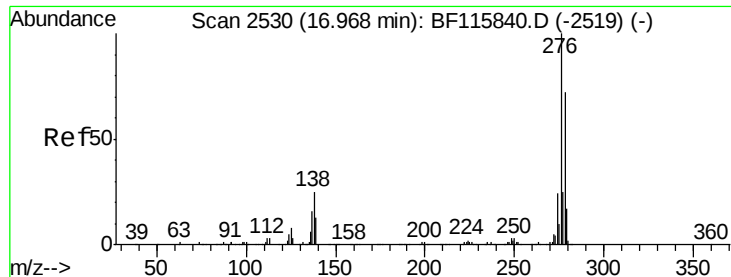
#83
Chrysene
Concen: 6.699 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.5	38.3
229	21.6	16.6	24.8



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

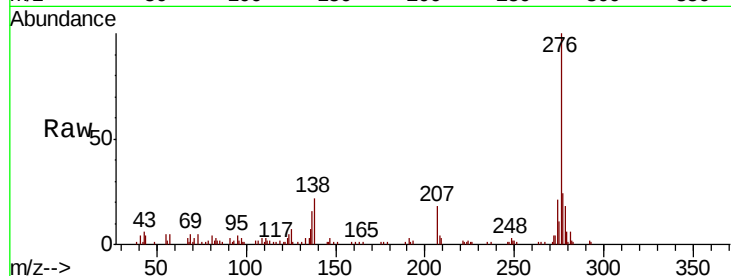




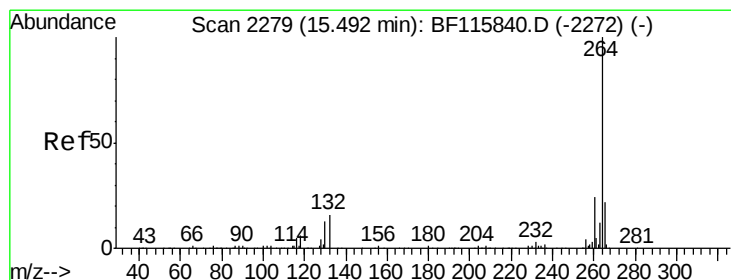
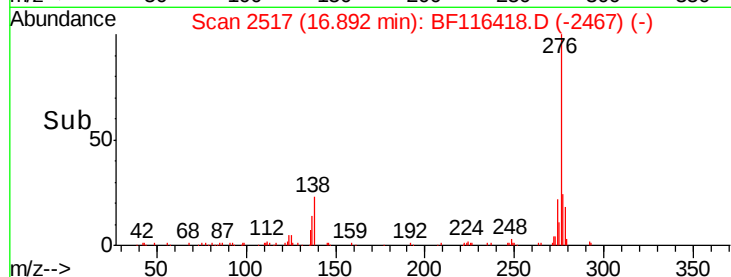
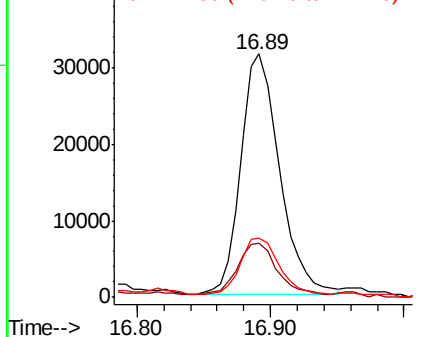
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.223 ng
 RT: 16.89 min Scan# 2517
 Delta R.T. -0.01 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Instrument :
 BNA_F
 ClientSampleId :

Tot	Ion:276	Resp:	63135
Ion	Ratio	Lower	Upper
276	100		
138	22.6	20.4	30.6
277	23.2	20.0	30.0

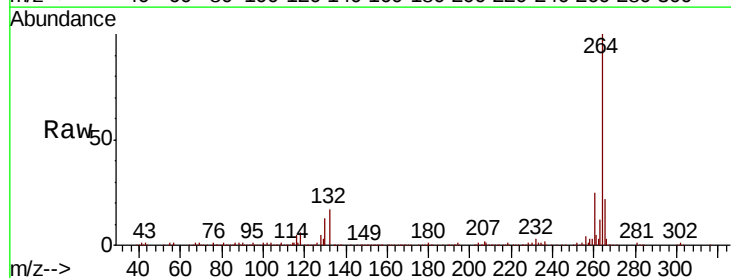


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

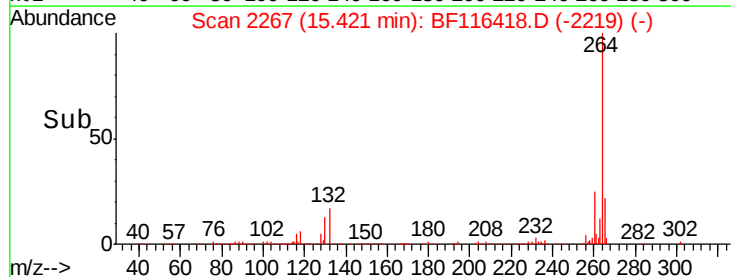
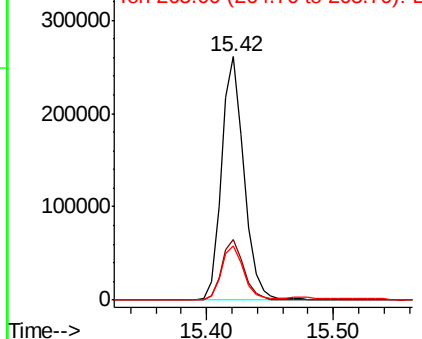


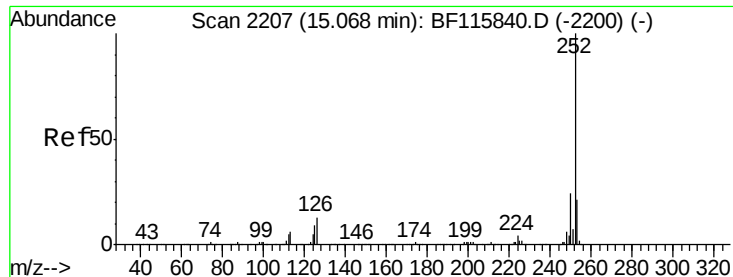
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2267
 Delta R.T. -0.02 min
 Lab File: BF116418.D
 Acq: 20 Aug 2019 6:05

Tgt	Ion:264	Resp:	320810
Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.7	29.5
265	22.4	17.4	26.0



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

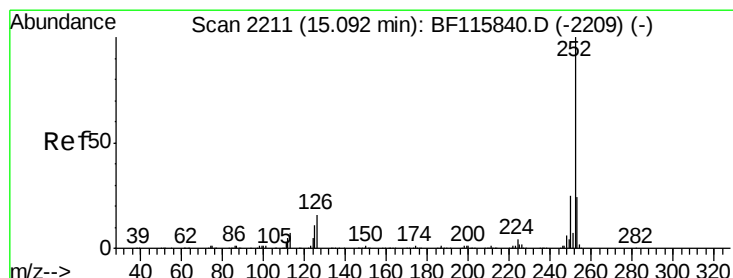
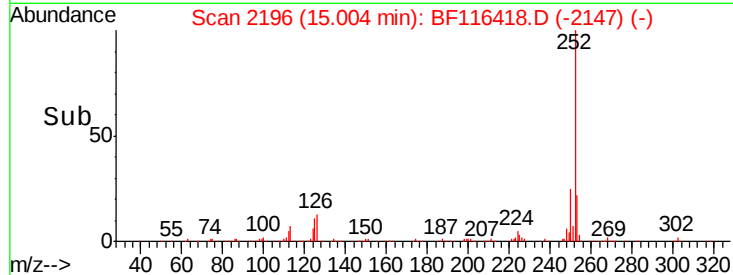
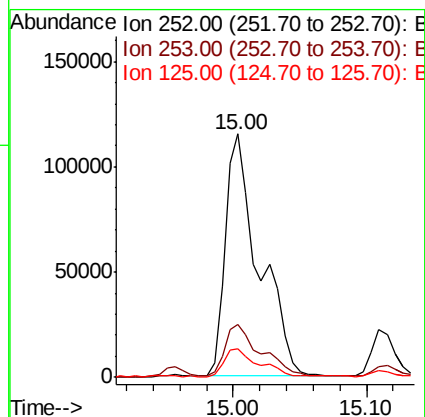
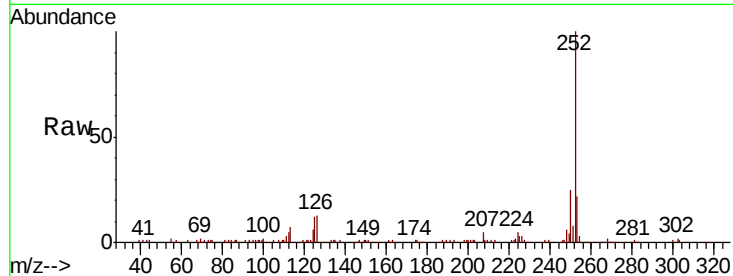




#88
Benzo(b)fluoranthene
Concen: 10.961 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

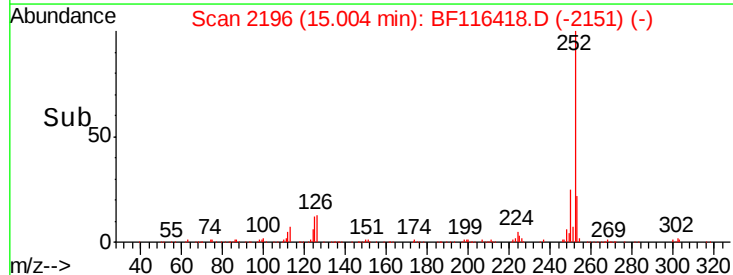
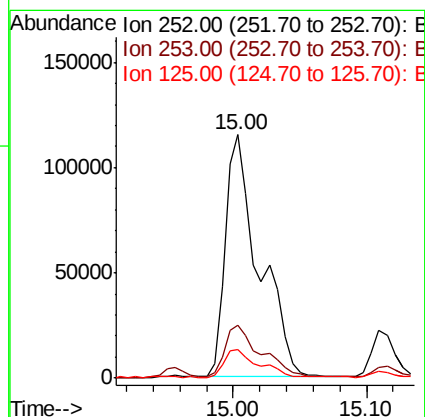
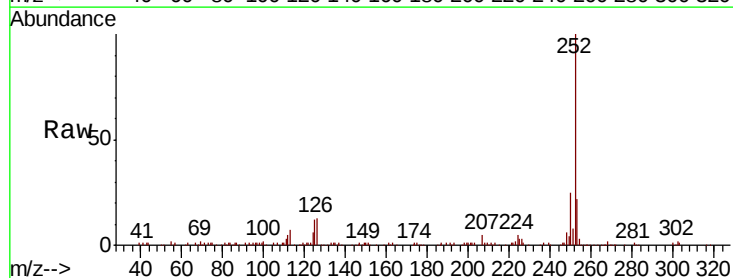
Instrument :
BNA_F
ClientSampleId :

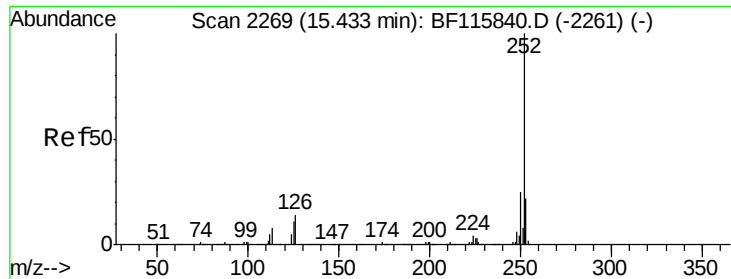
Tot Ion:252 Resp: 203323
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.8
125 11.8 8.4 12.6



#89
Benzo(k)fluoranthene
Concen: 11.254 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.04 min
Lab File: BF116418.D
Acq: 20 Aug 2019 6:05

Tgt Ion:252 Resp: 203323
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.8
125 11.8 7.7 11.5#





#90

Benzo(a)pyrene

Concen: 7.103 ng

RT: 15.36 min Scan# 2257

Delta R.T. -0.02 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

Instrument :

BNA_F

ClientSampled :

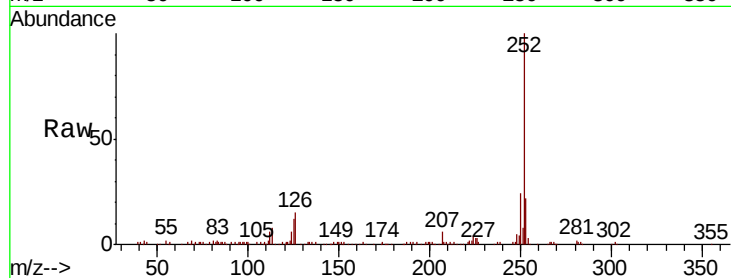
Tot Ion:252 Resp: 117775

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

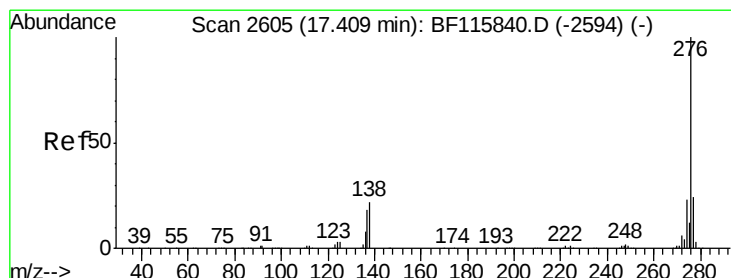
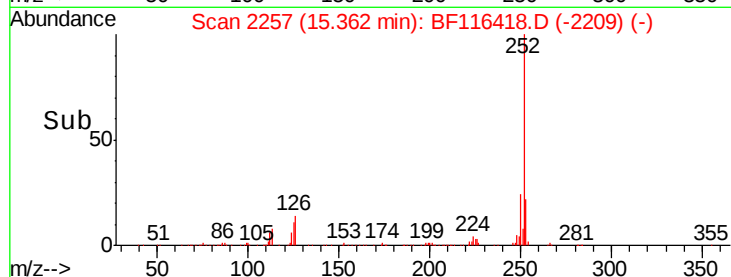
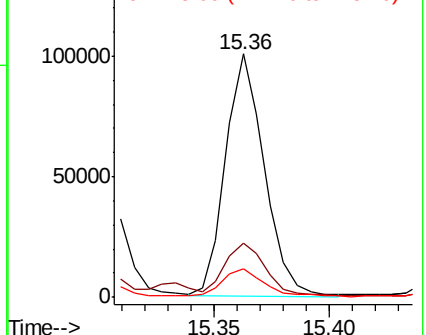
125 11.7 8.9 13.3



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(g,h,i)perylene

Concen: 4.360 ng

RT: 17.33 min Scan# 2591

Delta R.T. -0.01 min

Lab File: BF116418.D

Acq: 20 Aug 2019 6:05

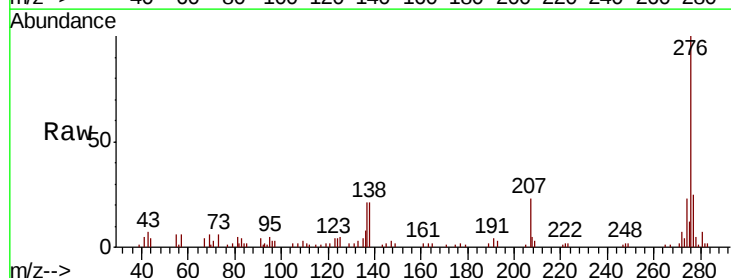
Tgt Ion:276 Resp: 61457

Ion Ratio Lower Upper

276 100

277 24.7 18.4 27.6

138 20.9 17.0 25.6



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

