

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
 Data File : BF116375.D
 Acq On : 18 Aug 2019 3:39
 Operator : HP/JU
 Sample : K4384-04 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 19 07:50:26 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	126161	20.00	ng	-0.04
21) Naphthalene-d8	8.09	136	504471	20.00	ng	-0.04
39) Acenaphthene-d10	9.84	164	245848	20.00	ng	-0.05
64) Phenanthrene-d10	11.33	188	367675	20.00	ng	-0.04
76) Chrysene-d12	13.97	240	237733	20.00	ng	-0.04
87) Perylene-d12	15.43	264	280800	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	75291	9.99	ng	-0.01
7) Phenol-d6	6.47	99	109218	11.49	ng	-0.02
23) Nitrobenzene-d5	7.39	82	65770	7.53	ng	-0.03
42) 2,4,6-Tribromophenol	10.64	330	18019	7.56	ng	-0.04
45) 2-Fluorobiphenyl	9.16	172	133110	10.14	ng	-0.04
79) Terphenyl-d14	12.90	244	99049	8.78	ng	-0.05

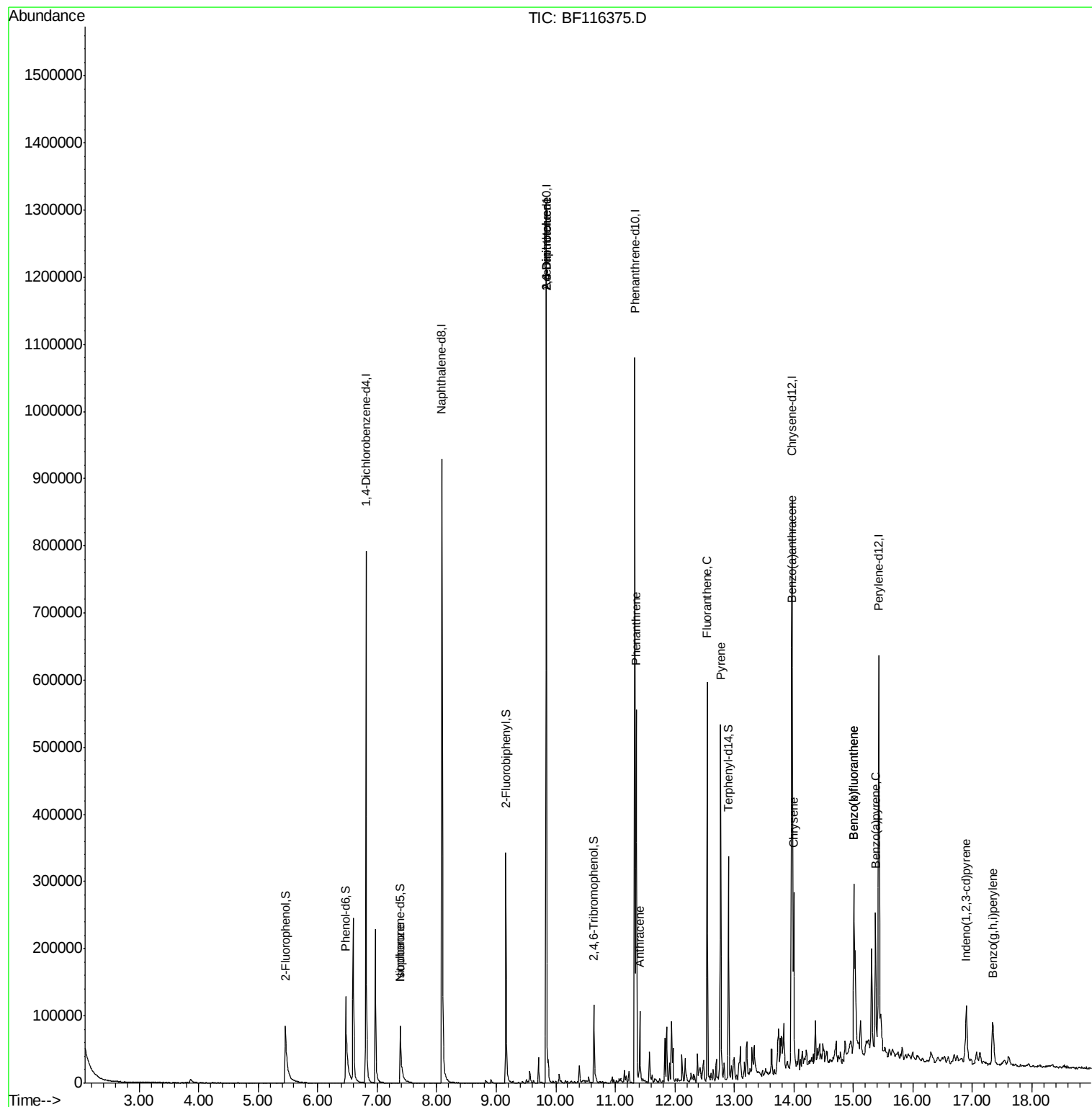
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.39	82	65770	3.936	ng	# 65
51) 2,6-Dinitrotoluene	9.84	165	31650	8.700	ng	# 29
57) 2,4-Dinitrotoluene	9.84	165	31650	6.535	ng	# 20
71) Phenanthrene	11.35	178	212362	11.298	ng	98
72) Anthracene	11.41	178	51872	2.727	ng	98
75) Fluoranthene	12.54	202	250926	12.752	ng	99
78) Pyrene	12.77	202	230930	12.886	ng	98
81) Benzo(a)anthracene	13.96	228	109115	7.181	ng	98
83) Chrysene	14.00	228	100496	6.812	ng	99
86) Indeno(1,2,3-cd)pyrene	16.90	276	64984	5.245	ng	97
88) Benzo(b)fluoranthene	15.01	252	174587	10.753	ng	99
89) Benzo(k)fluoranthene	15.01	252	174587	11.040	ng	99
90) Benzo(a)pyrene	15.37	252	99923	6.885	ng	98
92) Benzo(a,h,i)perylene	17.34	276	60533	4.906	ng	98

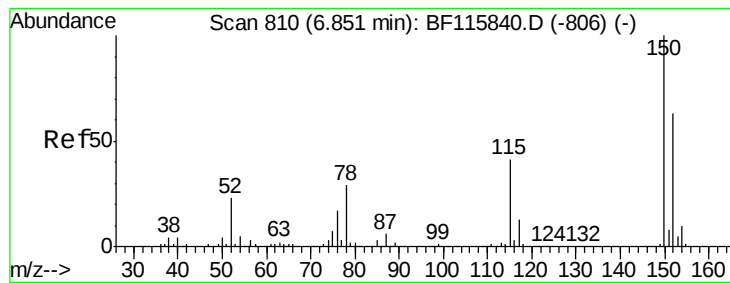
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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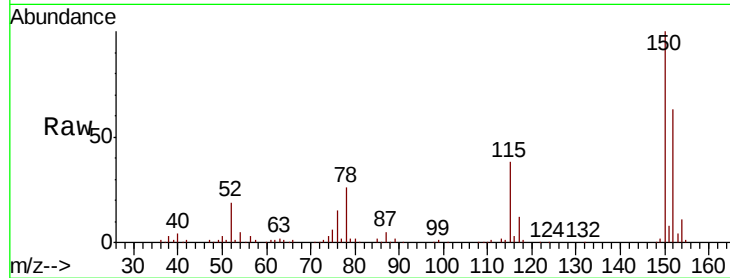


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.04 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.2	189.2
115	61.1	49.9	74.9

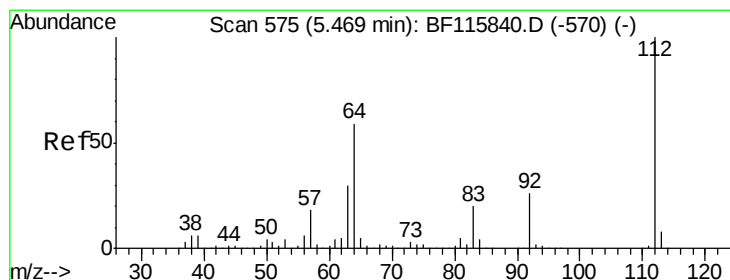
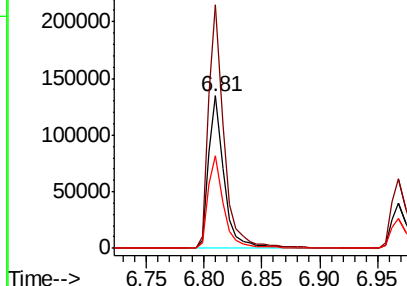
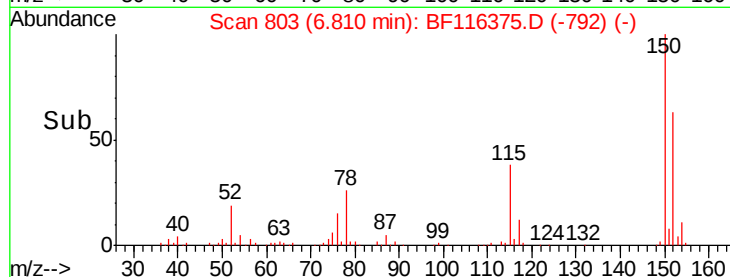


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

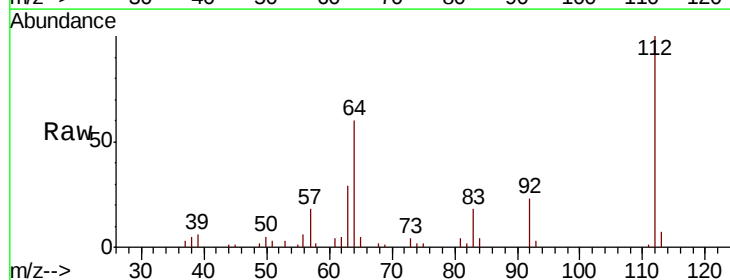
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 9.991 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.1	45.4	68.2
63	29.1	23.7	35.5

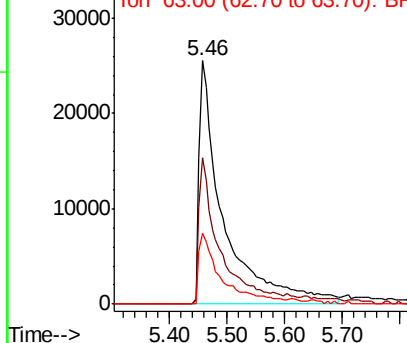
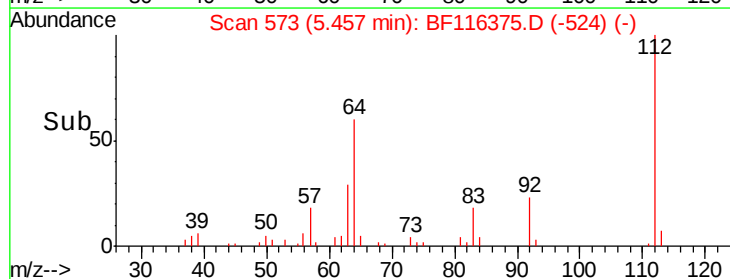


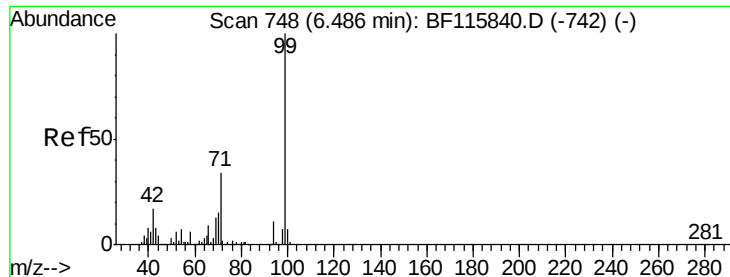
Abundance

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: 11.487 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

Instrument :

BNA_F

ClientSampleId :

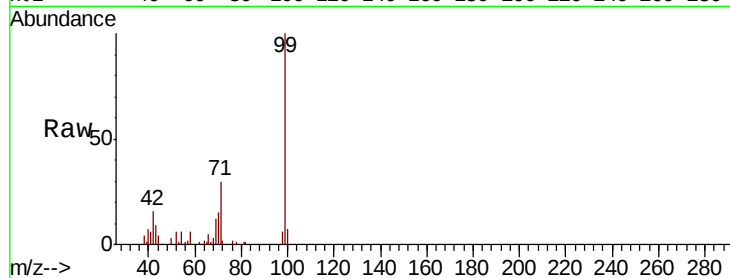
Tot Ion: 99 Resp: 109218

Ion Ratio Lower Upper

99 100

42 16.2 13.8 20.8

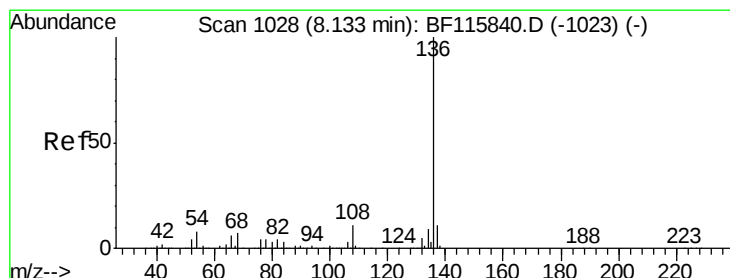
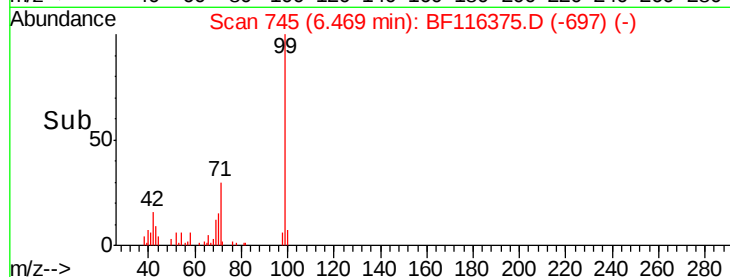
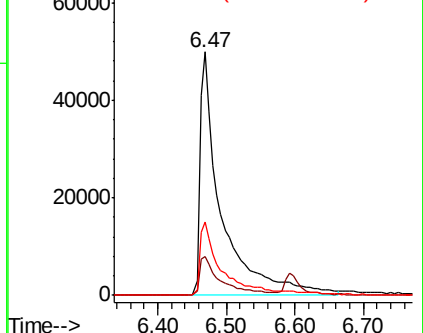
71 30.1 27.3 40.9



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: 8.09 min Scan# 1020

Delta R.T. -0.04 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

Tgt Ion: 136 Resp: 504471

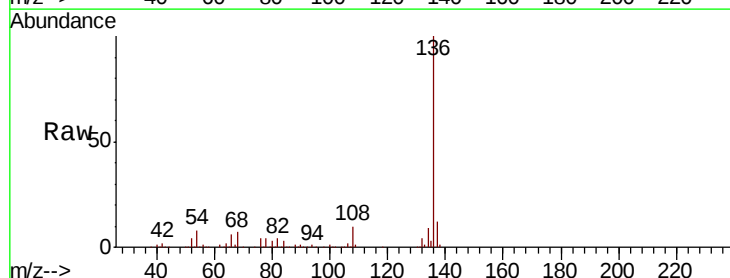
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.4

54 7.7 5.8 8.6

68 6.8 5.2 7.8

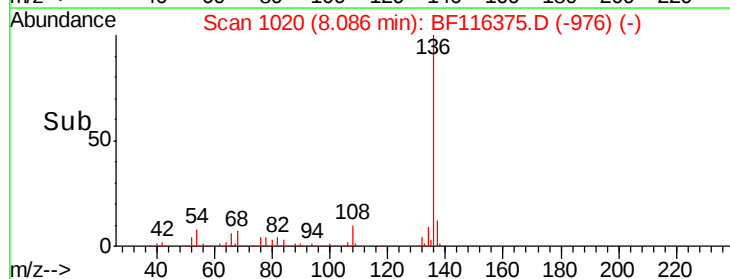
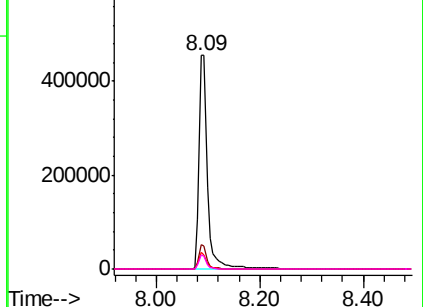


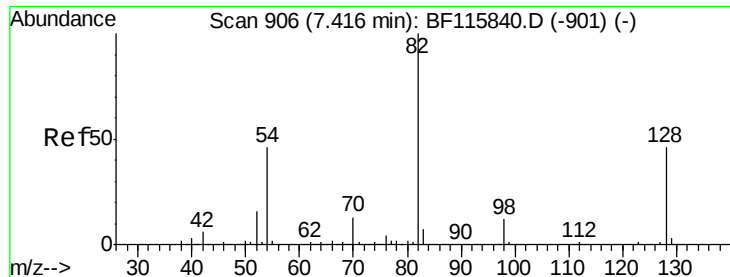
Abundance Ion 136.00 (135.70 to 136.70): E

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

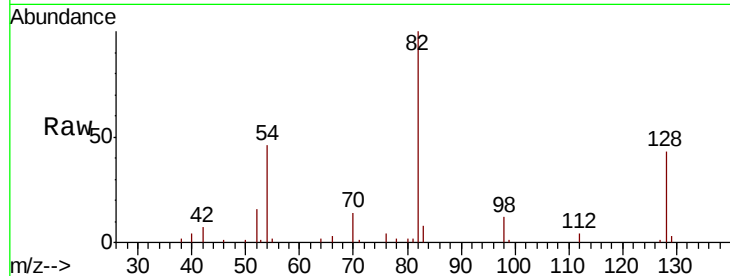




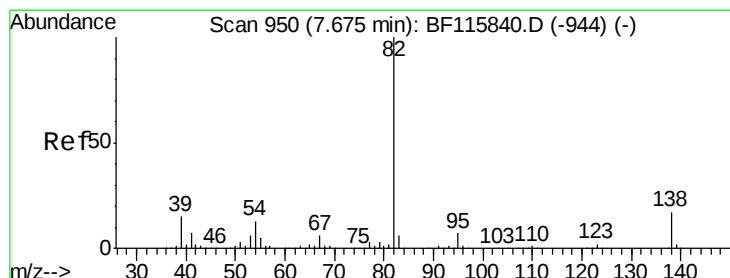
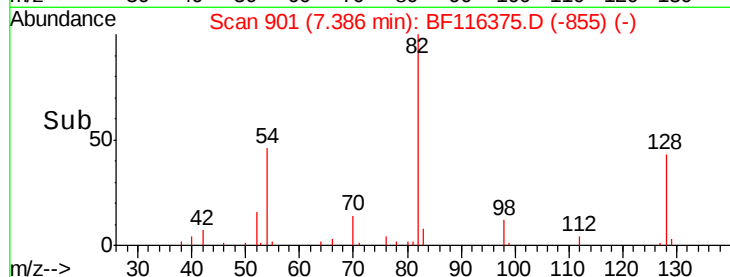
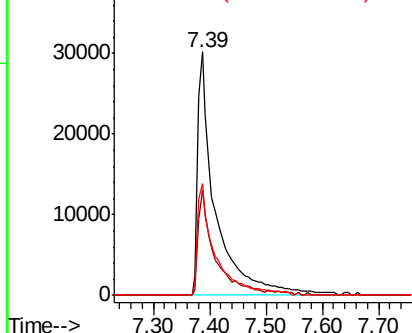
#23
Nitrobenzene-d5
Concen: 7.526 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.03 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	65770
Ion Ratio	100	Lower	Upper
128	43.5	36.5	54.7
54	45.8	36.0	54.0

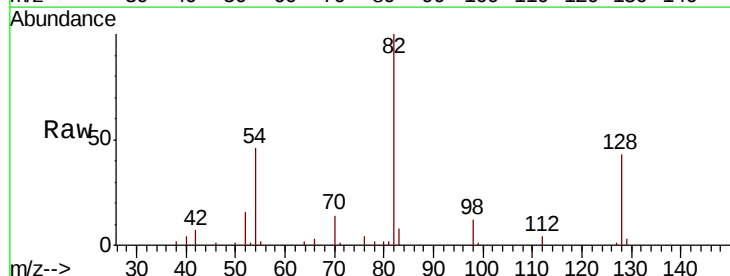


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

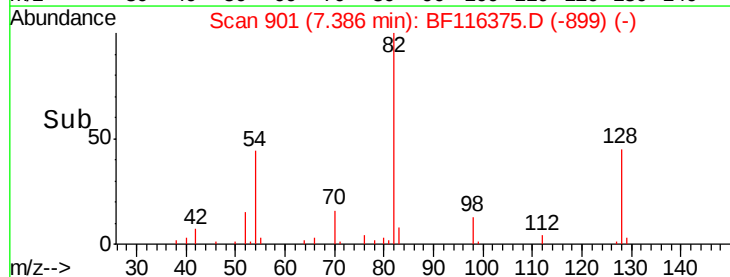
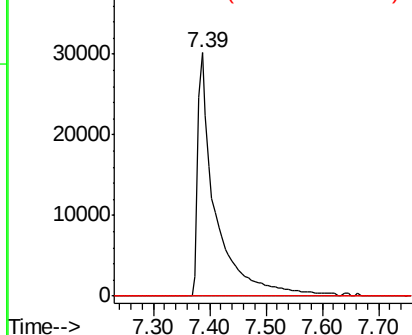


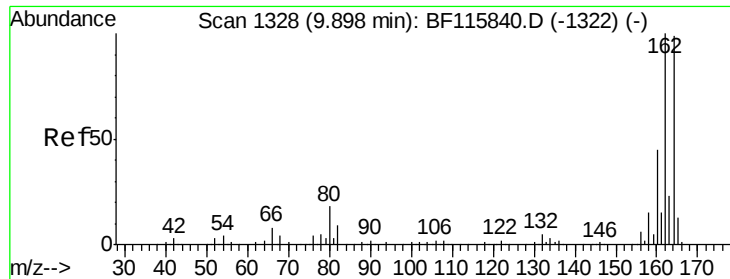
#25
Isophorone
Concen: 3.936 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.29 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Tgt Ion	82	Resp	65770
Ion Ratio	100	Lower	Upper
95	0.0	5.4	8.0#
138	0.0	14.5	21.7#



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): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.05 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

Instrument :

BNA_F

ClientSampleId :

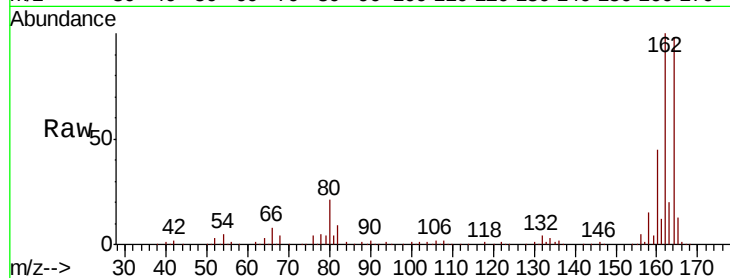
Tot Ion:164 Resp: 245848

Ion Ratio Lower Upper

164 100

162 101.7 82.6 124.0

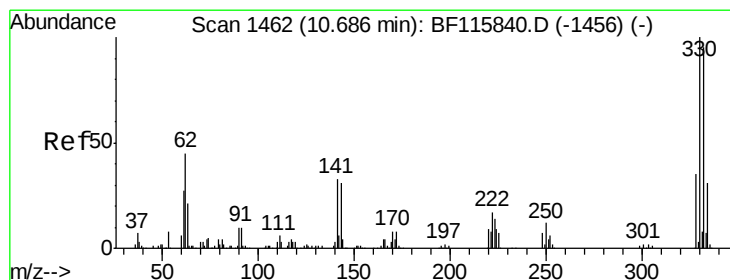
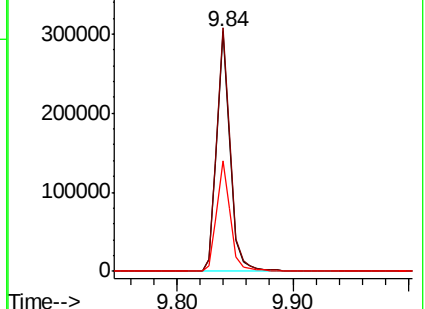
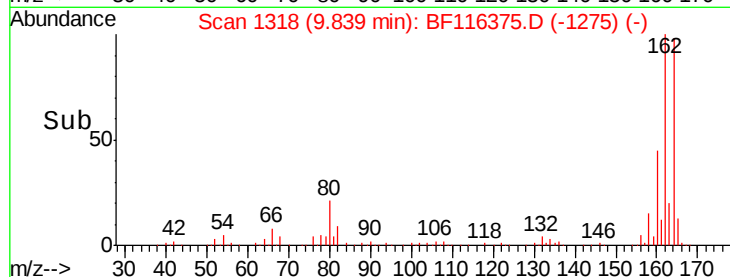
160 46.1 37.6 56.4



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: 7.560 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.04 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

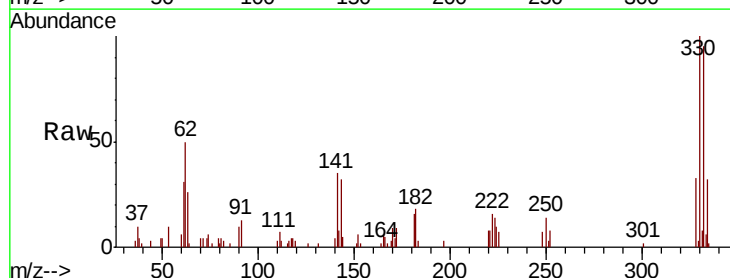
Tgt Ion:330 Resp: 18019

Ion Ratio Lower Upper

330 100

332 97.9 76.8 115.2

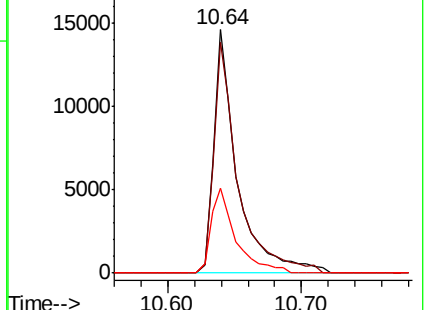
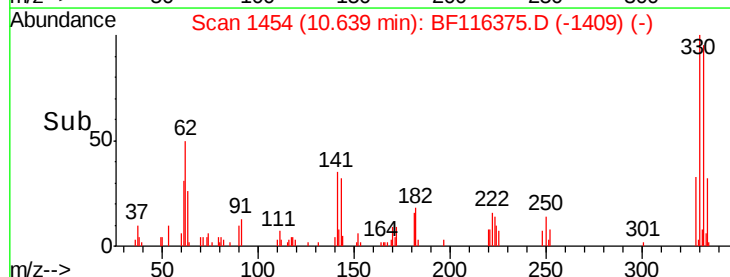
141 36.2 26.3 39.5

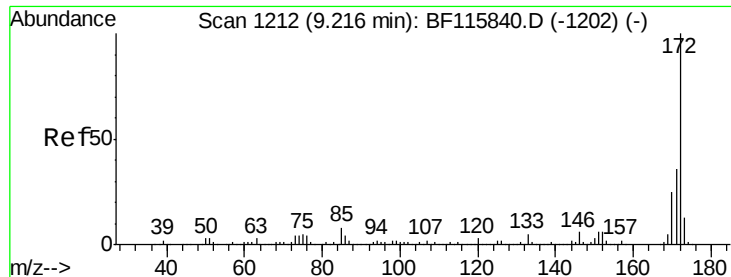


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

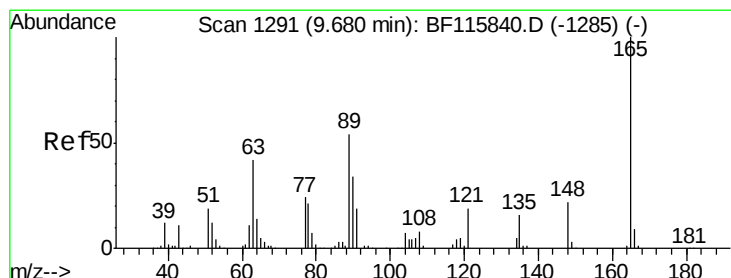
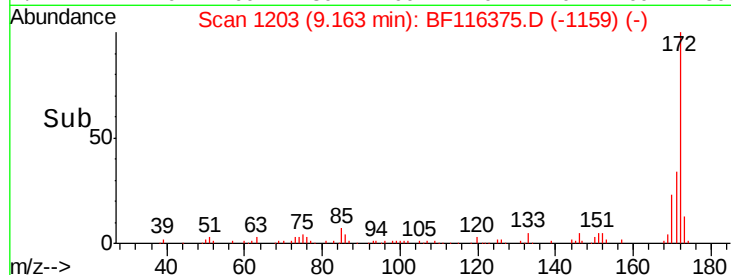
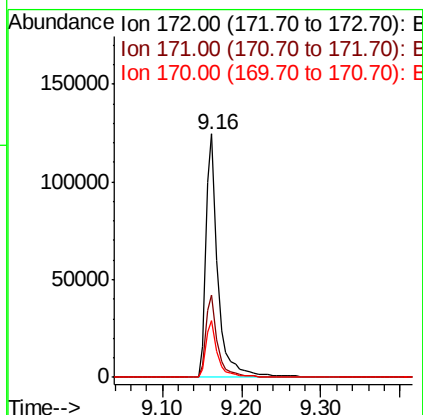
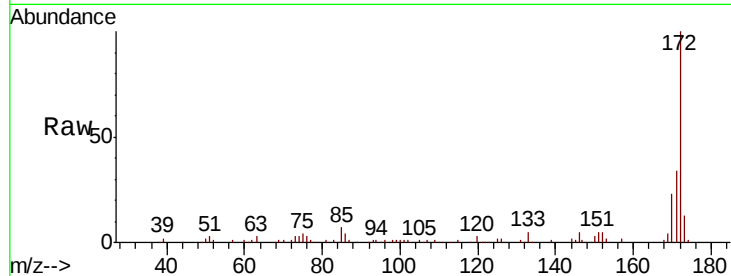




#45
 2-Fluorobiphenyl
 Concen: 10.141 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.04 min
 Lab File: BF116375.D
 Acq: 18 Aug 2019 3:39

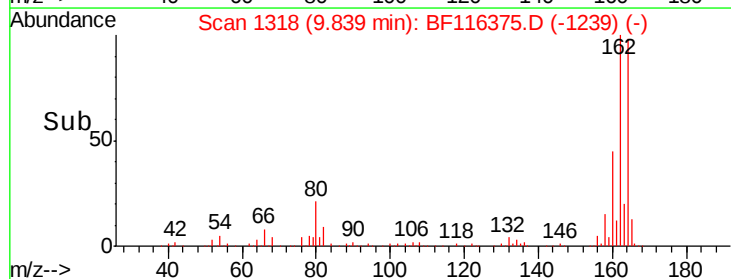
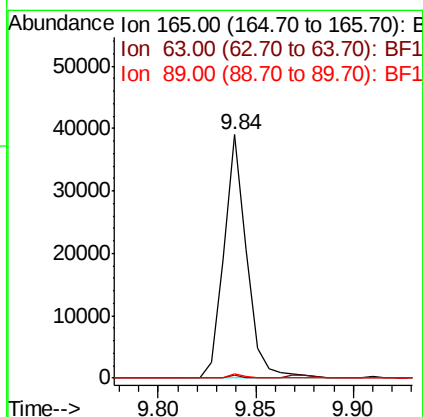
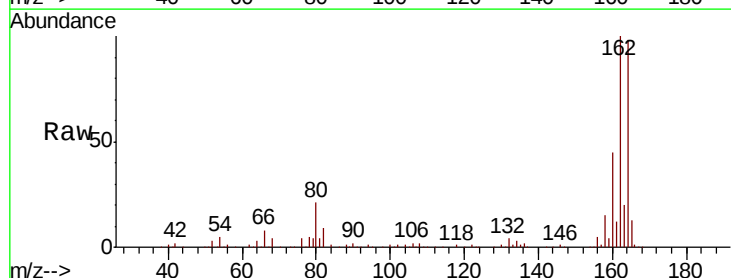
Instrument :
 BNA_F
 ClientSampleId :

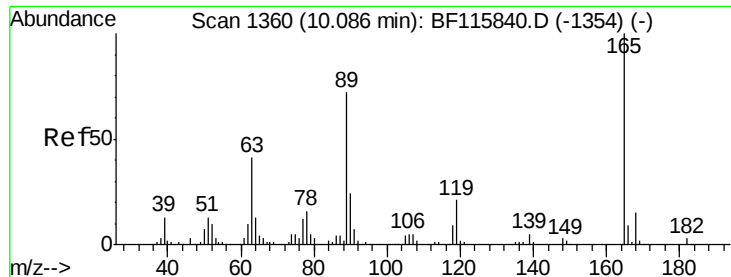
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.6	29.6	44.4
170	23.1	20.1	30.1



#51
 2,6-Dinitrotoluene
 Concen: 8.700 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.16 min
 Lab File: BF116375.D
 Acq: 18 Aug 2019 3:39

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	38.2	57.2#
89	1.5	42.9	64.3#

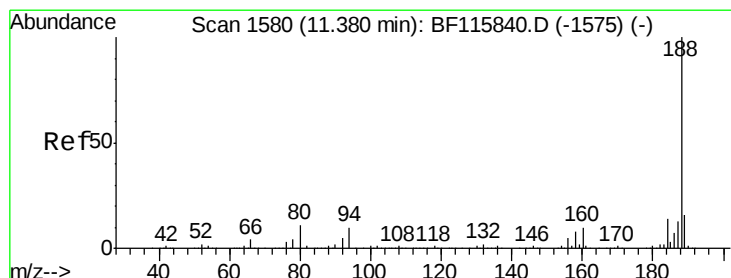
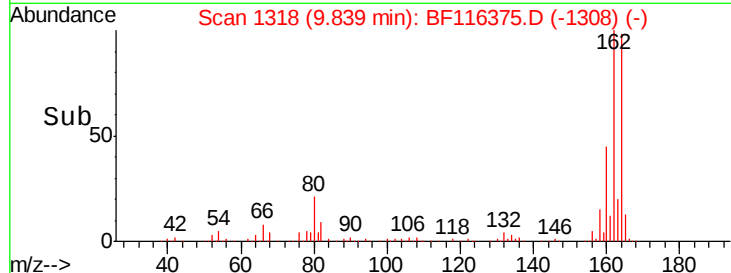
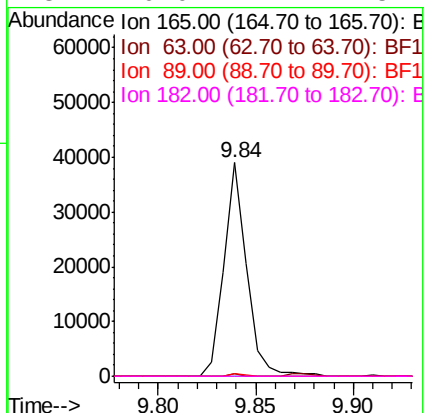
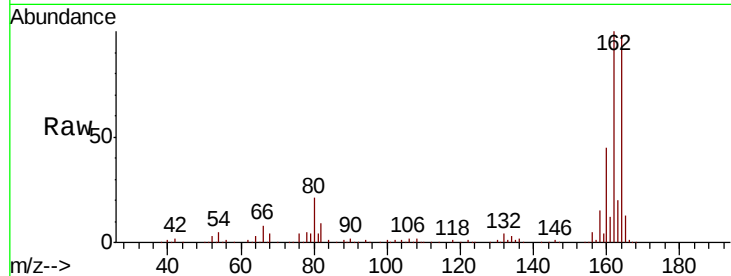




#57
 2,4-Dinitrotoluene
 Concen: 6.535 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.24 min
 Lab File: BF116375.D
 Acq: 18 Aug 2019 3:39

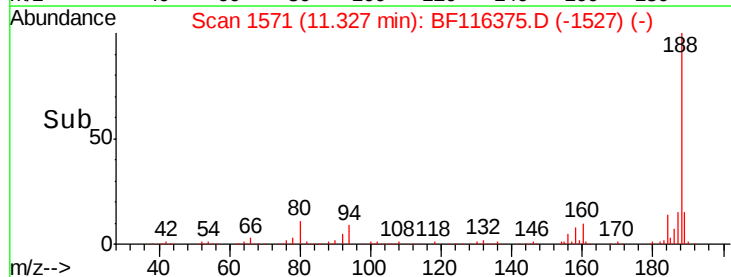
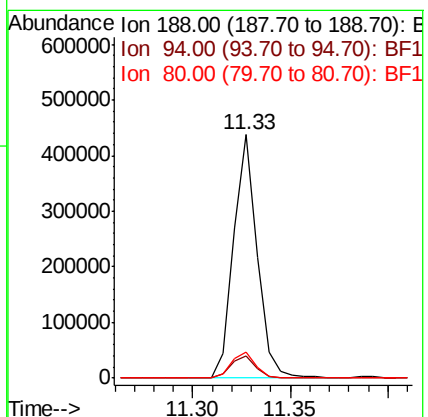
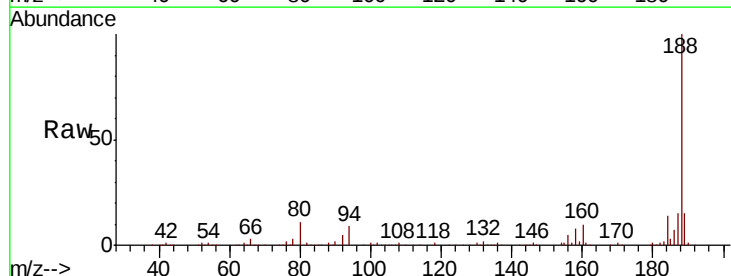
Instrument :
 BNA_F
 ClientSampleId :

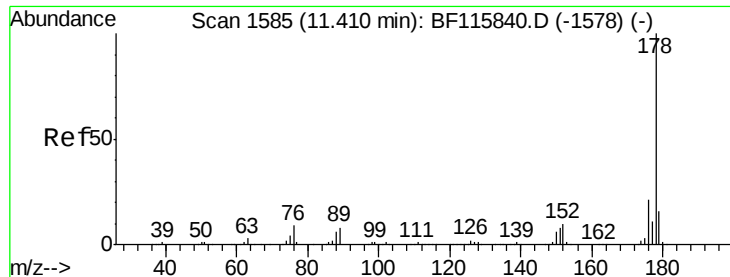
Tot Ion:	165	Resp:	31650
Ion	Ratio	Lower	Upper
165	100		
63	1.3	39.6	59.4#
89	1.5	62.2	93.2#
182	0.0	2.1	3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.04 min
 Lab File: BF116375.D
 Acq: 18 Aug 2019 3:39

Tgt Ion:	188	Resp:	367675
Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.1	12.1
80	10.6	8.7	13.1

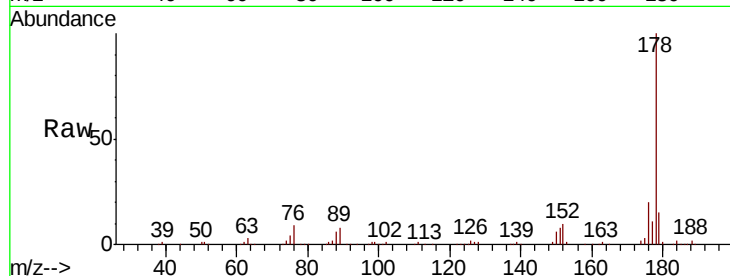




#71
Phenanthrene
Concen: 11.298 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.05 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.6	24.8
179	15.3	12.5	18.7

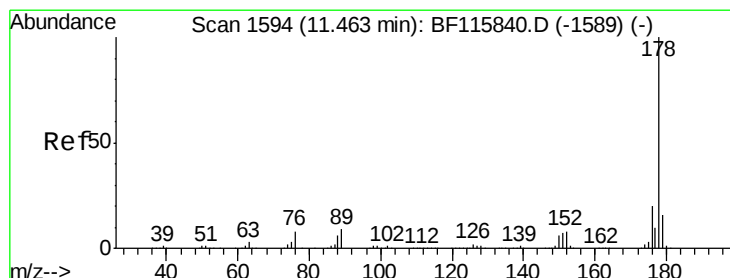
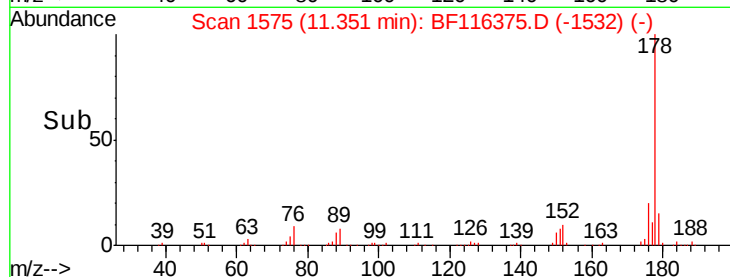
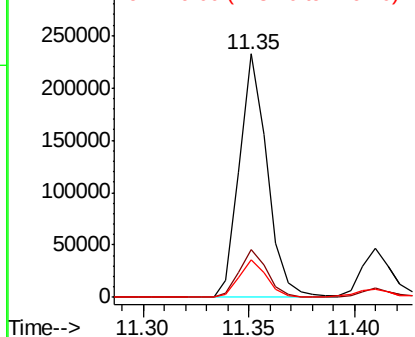


Abundance

Ion 178.00 (177.70 to 178.70): E

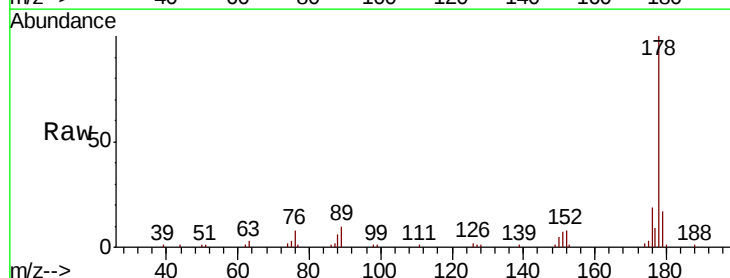
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
Anthracene
Concen: 2.727 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.04 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.7	23.5
179	16.9	13.0	19.6

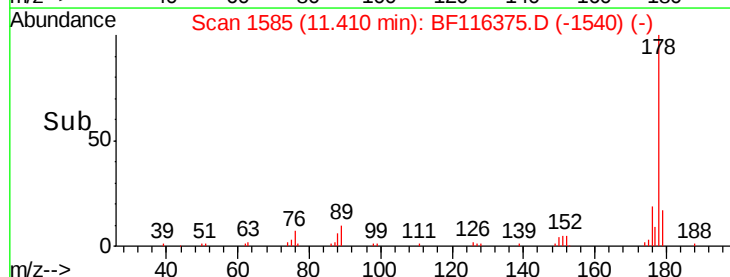
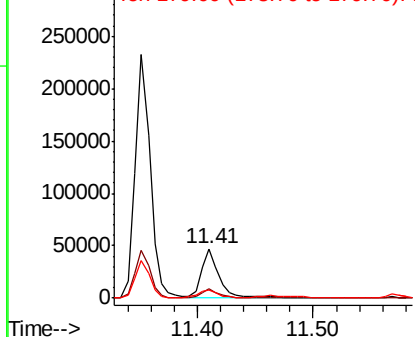


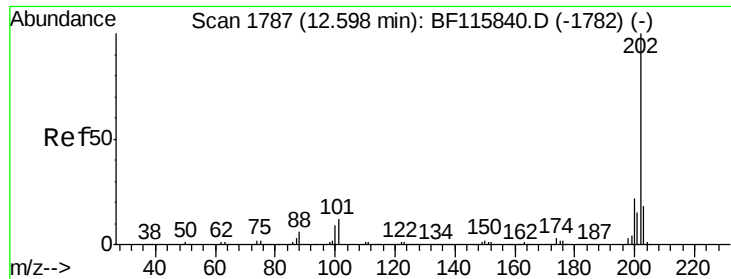
Abundance

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: 12.752 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.04 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

Instrument :

BNA_F

ClientSampleId :

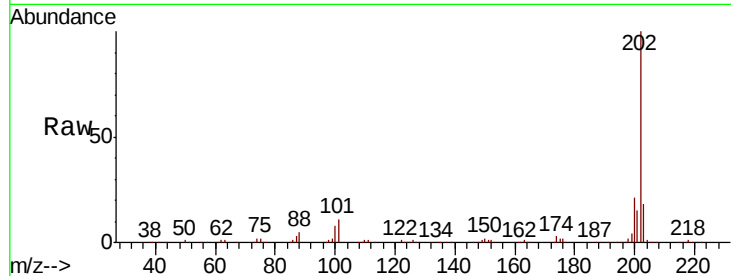
Tot Ion:202 Resp: 250926

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.2

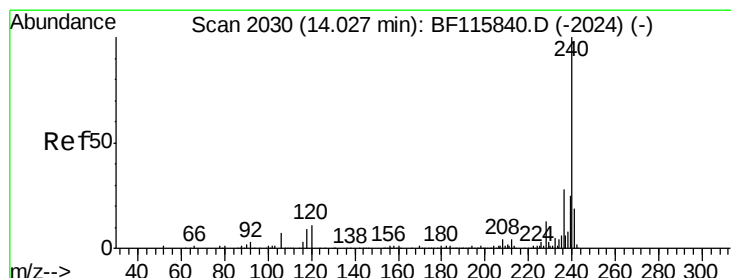
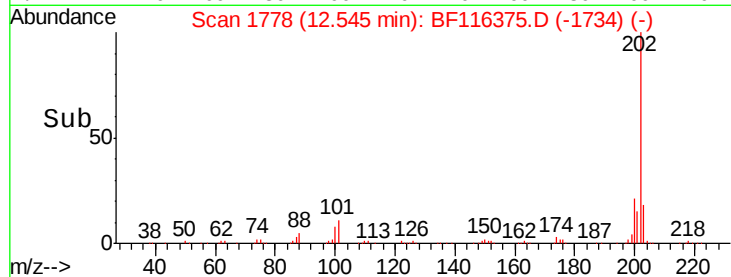
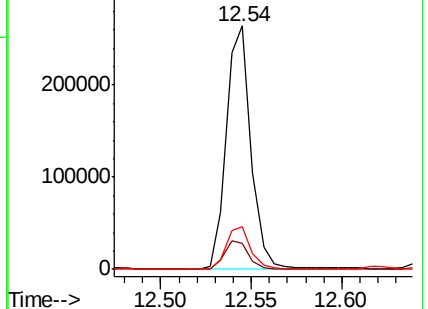
203 17.5 0.0 37.8



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: 13.97 min Scan# 2020

Delta R.T. -0.04 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

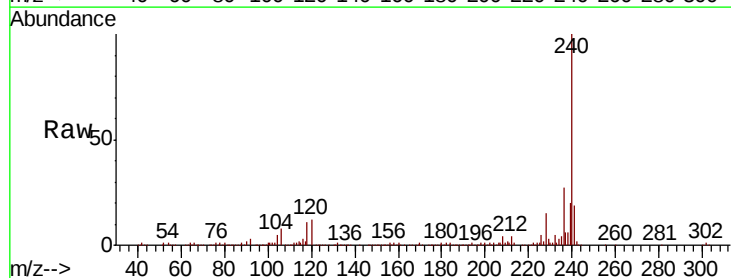
Tgt Ion:240 Resp: 237733

Ion Ratio Lower Upper

240 100

120 11.8 10.7 16.1

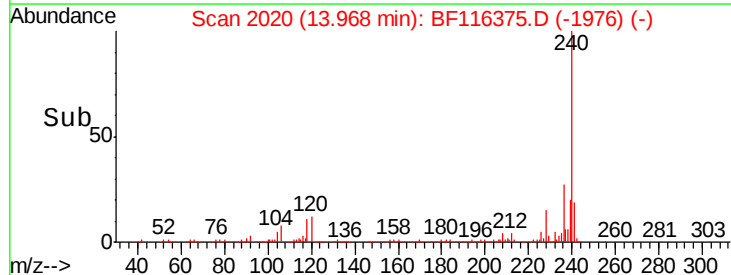
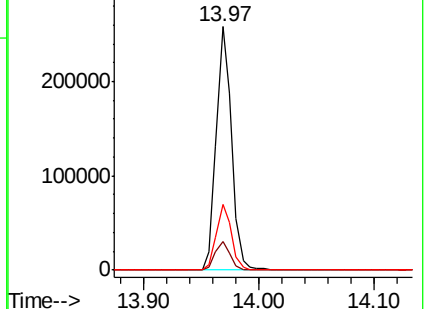
236 27.2 22.2 33.2

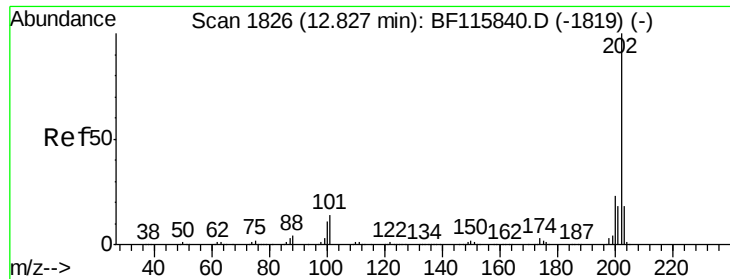


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

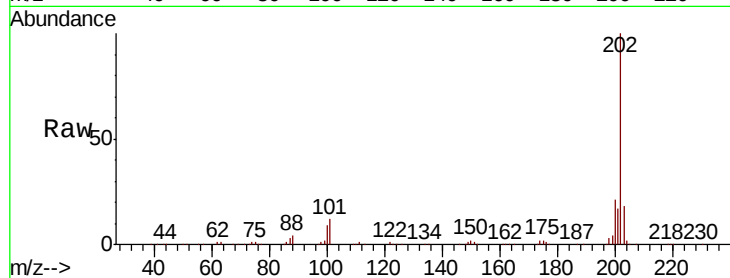




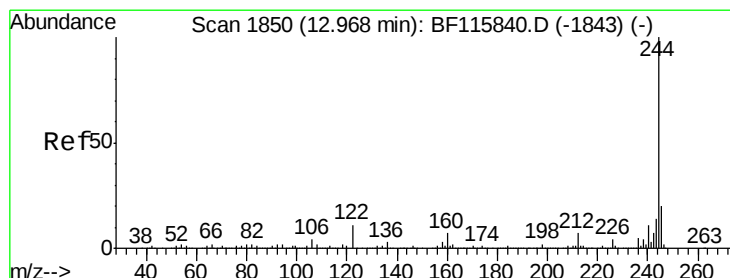
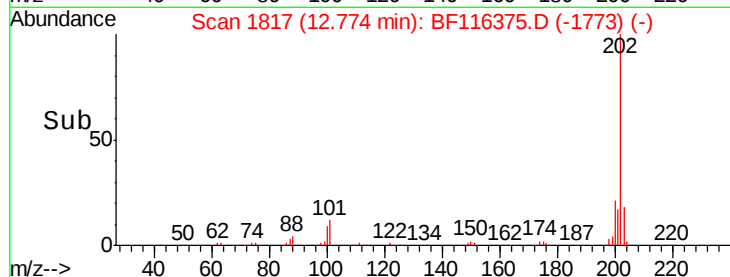
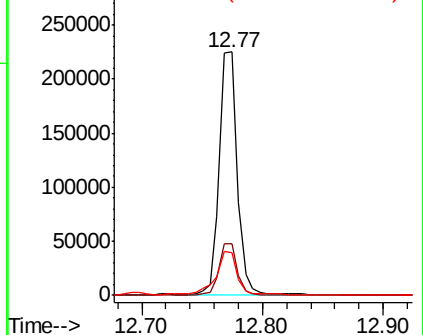
#78
Pvrene
Concen: 12.886 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.04 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	18.0	27.0
203	17.6	14.1	21.1

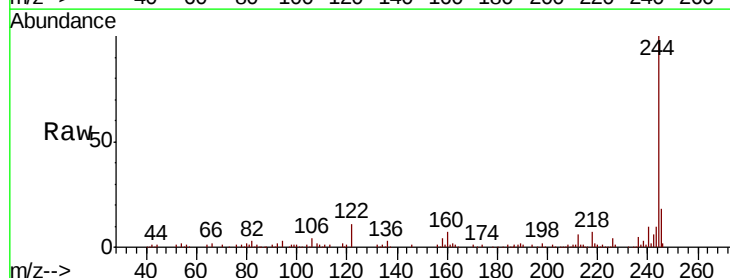


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

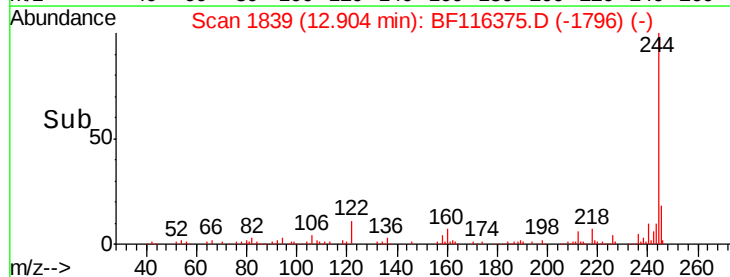
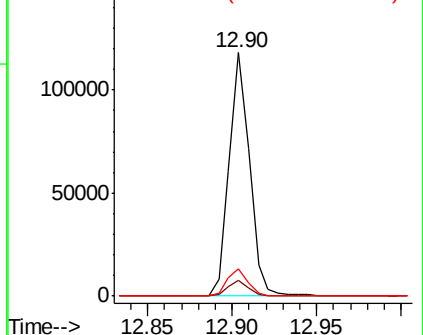


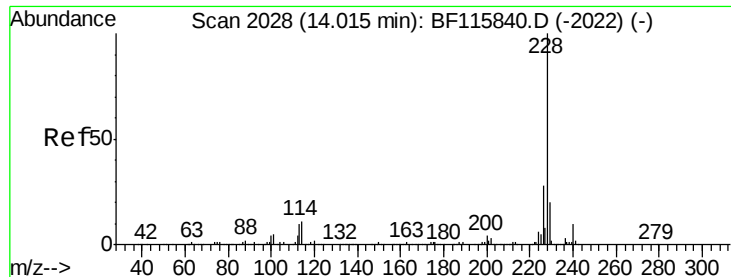
#79
Terphenyl-d14
Concen: 8.779 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.05 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.8	8.8
122	11.5	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: 7.181 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.04 min

Lab File: BF116375.D

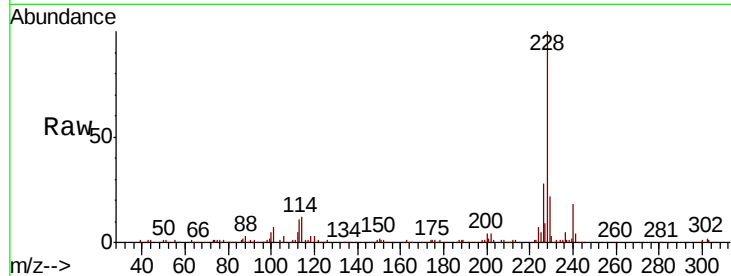
Acq: 18 Aug 2019 3:39

Instrument :

BNA_F

ClientSampled :

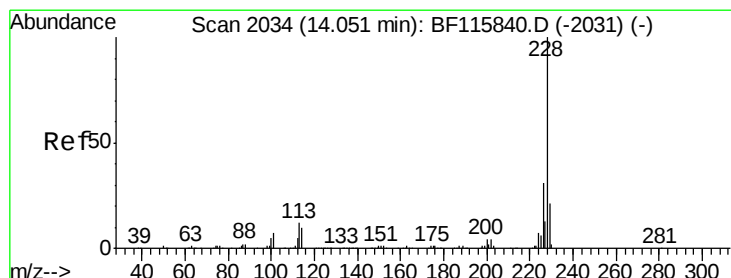
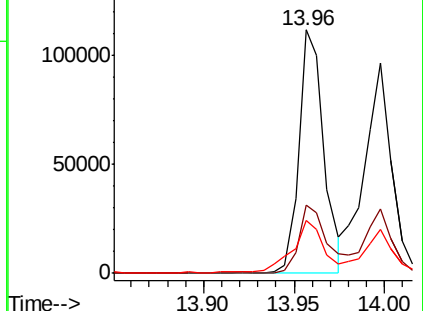
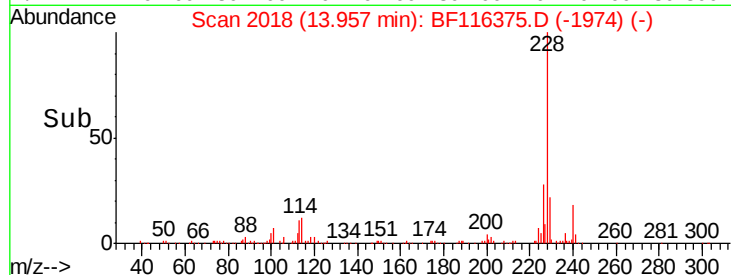
Tot Ion:228	Resp:	109115
Ion Ratio	Lower	Upper
228	100	
226	28.0	22.7 34.1
229	22.0	16.2 24.4



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: 6.812 ng

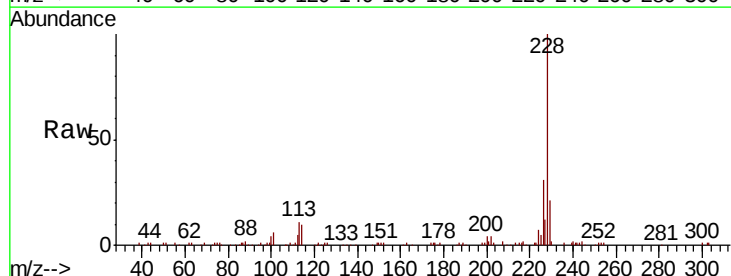
RT: 14.00 min Scan# 2025

Delta R.T. -0.04 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

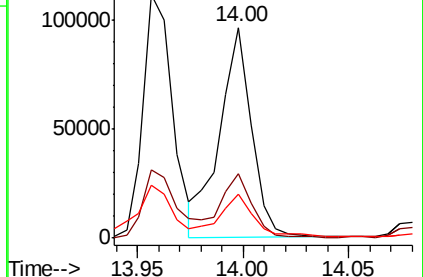
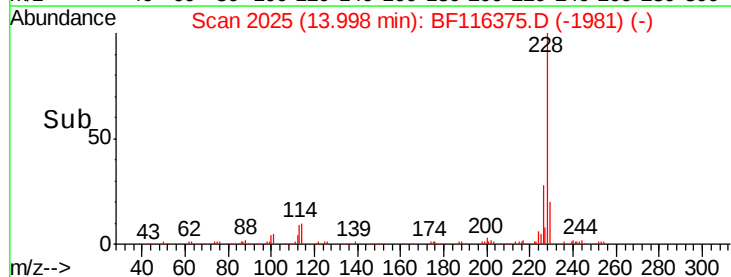
Tgt Ion:228	Resp:	100496
Ion Ratio	Lower	Upper
228	100	
226	30.9	25.5 38.3
229	20.6	16.6 24.8

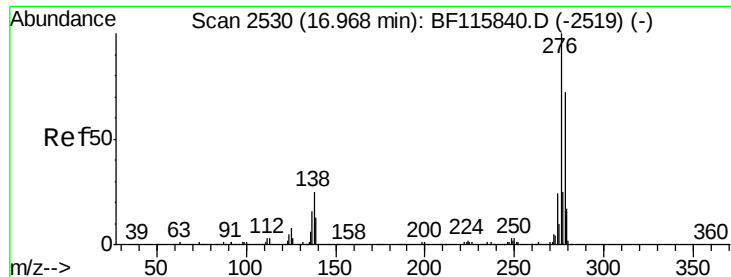


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

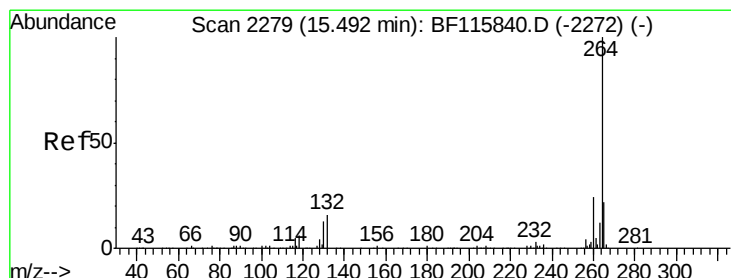
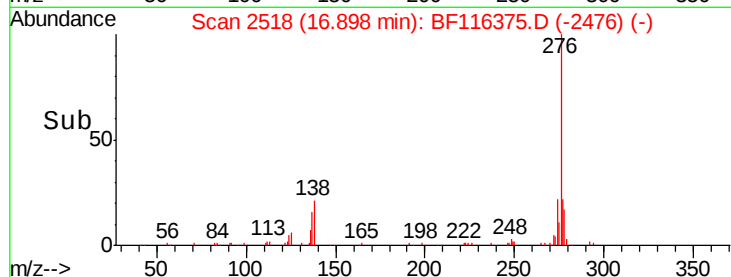
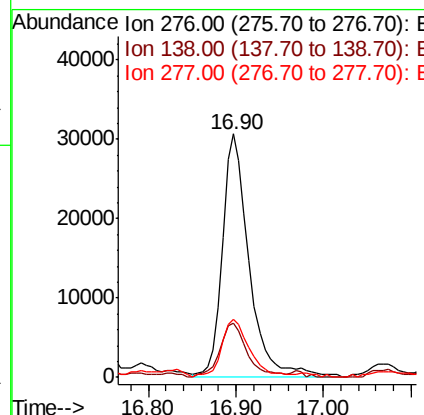
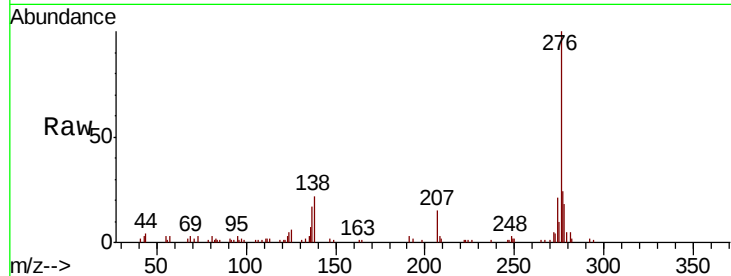




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.245 ng
 RT: 16.90 min Scan# 2518
 Delta R.T. -0.05 min
 Lab File: BF116375.D
 Acq: 18 Aug 2019 3:39

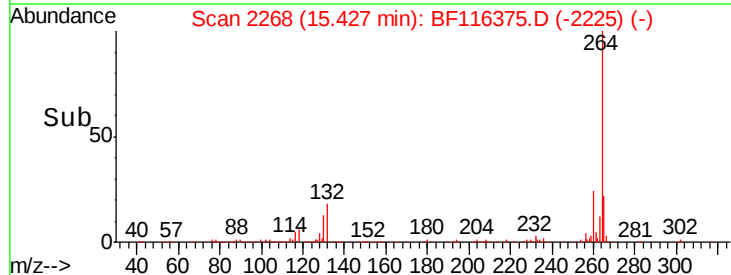
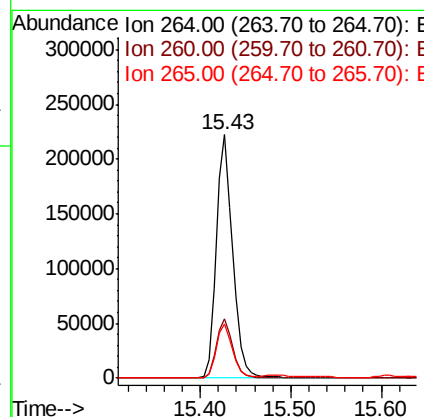
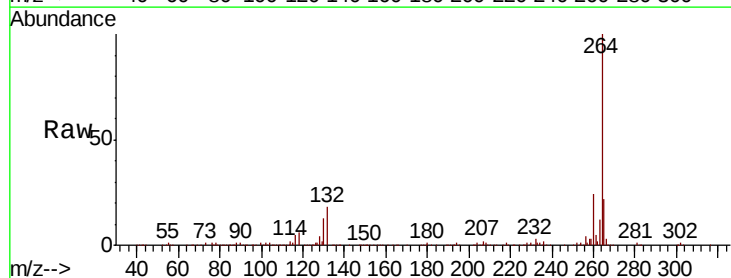
Instrument :
 BNA_F
 ClientSampleId :

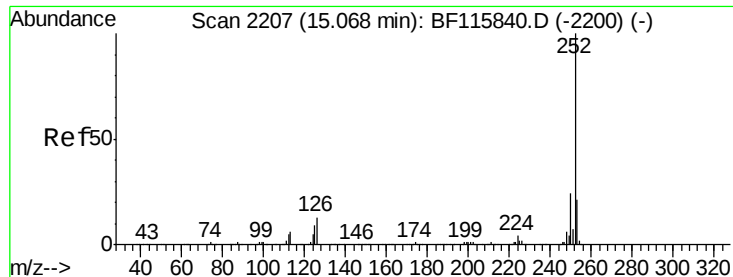
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.4	30.6
277	24.6	20.0	30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2268
 Delta R.T. -0.05 min
 Lab File: BF116375.D
 Acq: 18 Aug 2019 3:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.7	29.5
265	22.2	17.4	26.0

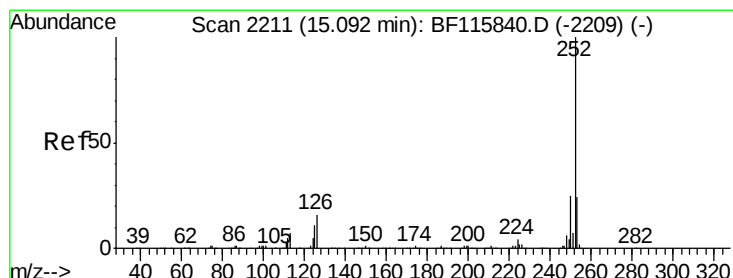
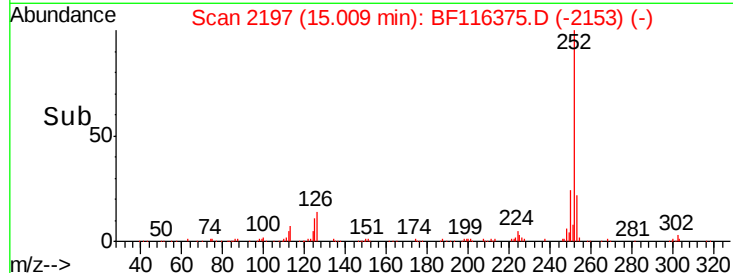
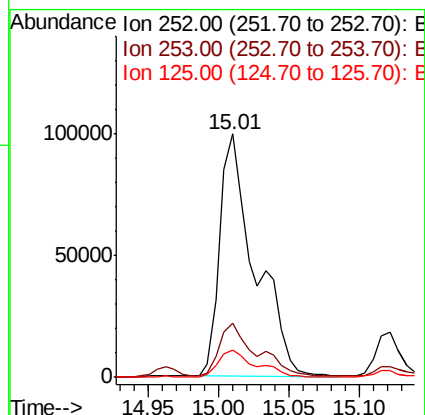
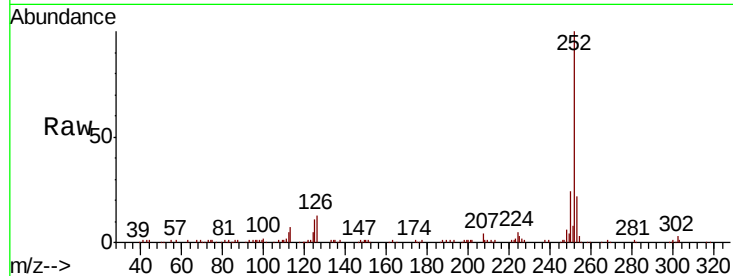




#88
Benzo(b)fluoranthene
Concen: 10.753 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.04 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

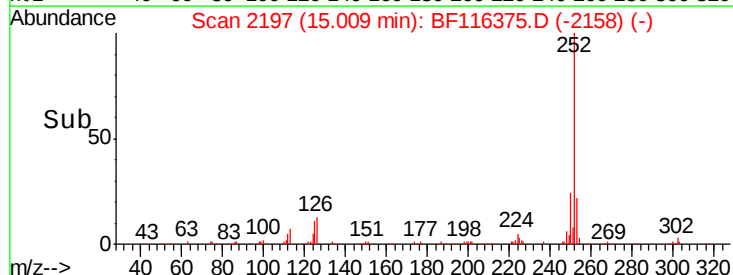
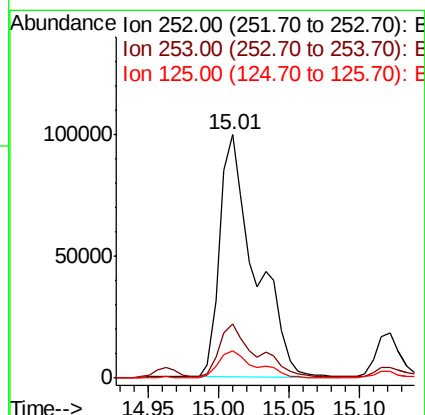
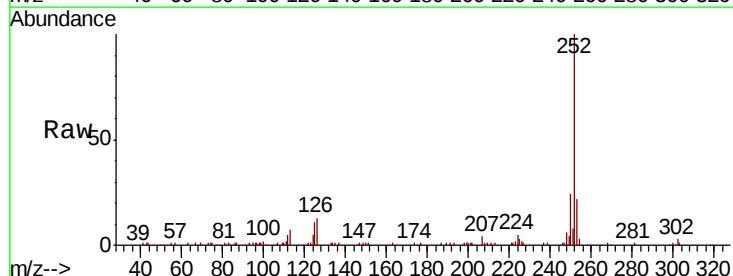
Instrument :
BNA_F
ClientSampled :

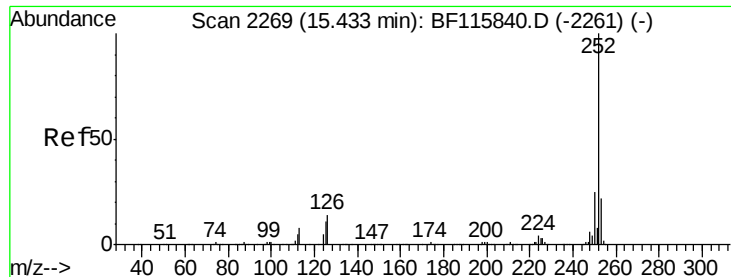
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	8.4	12.6



#89
Benzo(k)fluoranthene
Concen: 11.040 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.07 min
Lab File: BF116375.D
Acq: 18 Aug 2019 3:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	7.7	11.5





#90

Benzo(a)pyrene

Concen: 6.885 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.05 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

Instrument :

BNA_F

ClientSampleId :

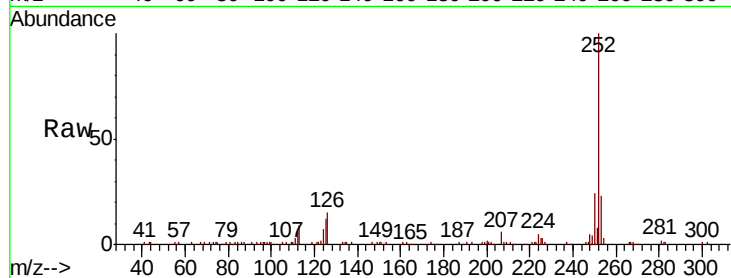
Tot Ion:252 Resp: 99923

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

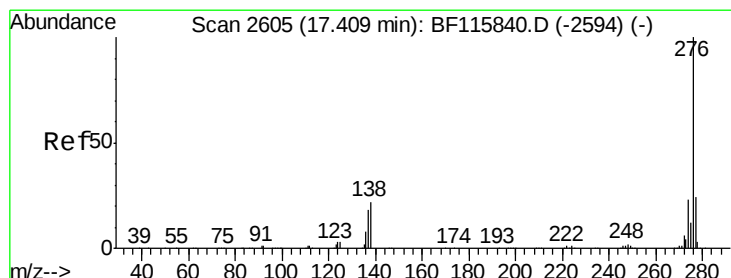
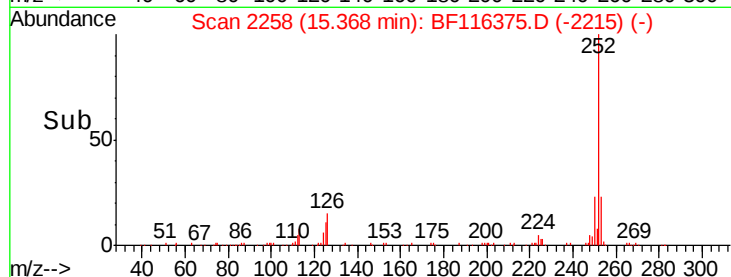
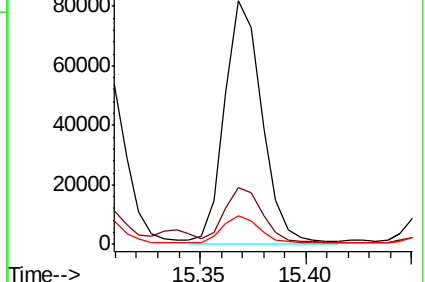
125 11.9 8.9 13.3



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: 4.906 ng

RT: 17.34 min Scan# 2593

Delta R.T. -0.05 min

Lab File: BF116375.D

Acq: 18 Aug 2019 3:39

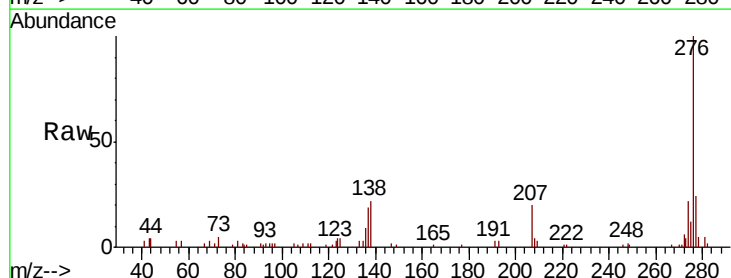
Tgt Ion:276 Resp: 60533

Ion Ratio Lower Upper

276 100

277 23.8 18.4 27.6

138 22.2 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

