

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
 Data File : BF116634.D
 Acq On : 29 Aug 2019 00:07
 Operator : HP/JU
 Sample : K4574-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

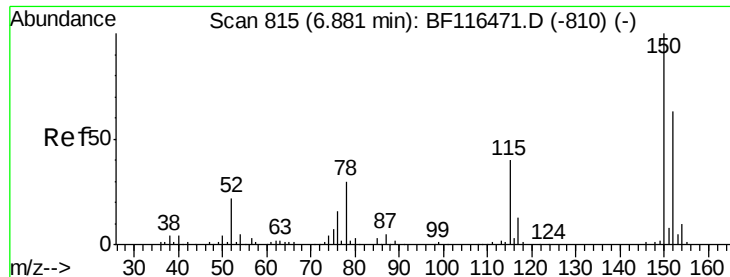
Quant Time: Aug 29 03:34:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 28 13:34:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	86445	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	256354	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	168101	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	228241	20.00	ng	0.00
76) Chrysene-d12	14.01	240	100818	20.00	ng	0.00
87) Perylene-d12	15.47	264	115236	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	589517	117.79	ng	0.00
7) Phenol-d6	6.49	99	756160	111.44	ng	0.00
23) Nitrobenzene-d5	7.42	82	368376	82.22	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	166599	104.15	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	656079	64.95	ng	0.00
79) Terphenyl-d14	12.96	244	571913	92.26	ng	0.00

Target Compounds				Qvalue		
6) Aniline	6.57	93	99676	10.905	ng	# 49
9) Benzaldehyde	6.49	77	1995	Below	Cal	# 1
10) Phenol	6.50	94	46965	6.310	ng	93
11) bis(2-Chloroethyl)ether	6.57	93	99676	18.020	ng	# 24
19) n-Nitroso-di-n-propylamine	7.42	70	50770	11.766	ng	# 80
25) Isophorone	7.42	82	368368	45.166	ng	# 65
50) Dimethylphthalate	9.60	163	61908	5.478	ng	98
57) 2,4-Dinitrotoluene	9.90	165	21591	6.566	ng	# 27
67) 4-Bromophenyl-phenylether	10.68	248	11402	4.710	ng	# 1
71) Phenanthrene	11.40	178	66119	5.393	ng	98
74) Di-n-butylphthalate	11.94	149	130094	10.760	ng	99
75) Fluoranthene	12.59	202	204305	18.582	ng	99
78) Pvrene	12.81	202	169166	18.248	ng	97
81) Benzo(a)anthracene	14.00	228	55489	8.255	ng	98
83) Chrysene	14.03	228	61470	9.342	ng	98
86) Indeno(1,2,3-cd)pyrene	16.91	276	30906	9.472	ng	96
88) Benzo(b)fluoranthene	15.04	252	118168	16.698	ng	99
89) Benzo(k)fluoranthene	15.04	252	118168	17.567	ng	98
90) Benzo(a)pvrene	15.40	252	56879	9.006	ng	96
92) Benzo(a,h,i)perylene	17.35	276	27385	4.469	ng	97

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

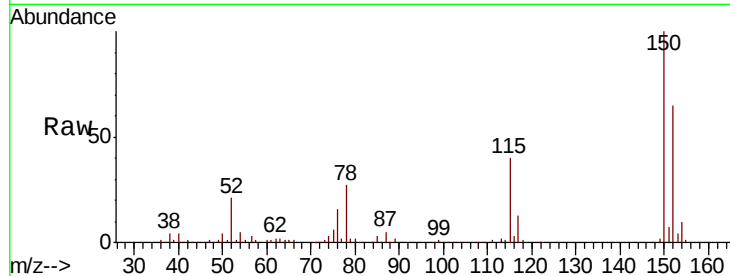


#1

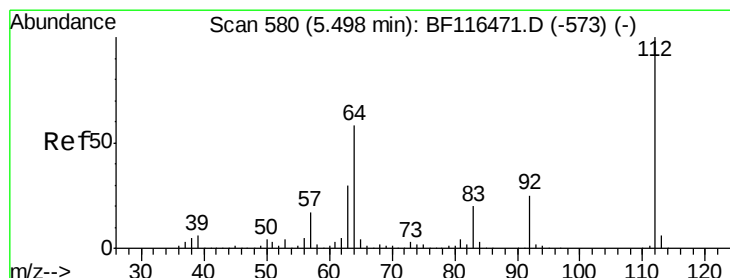
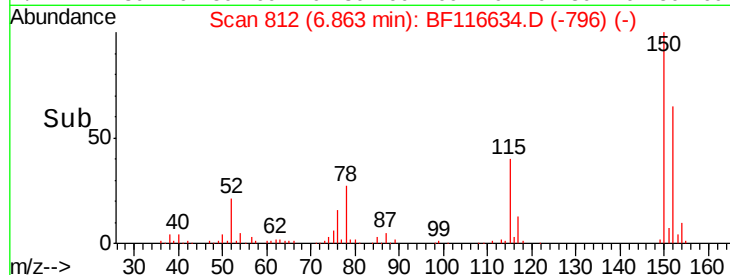
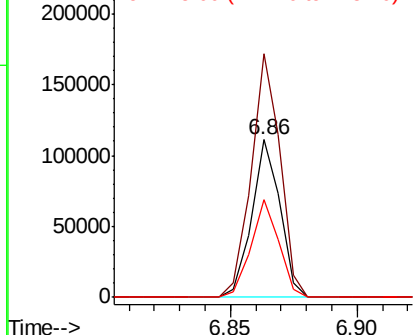
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 86445
Ion Ratio Lower Upper
152 100
150 154.4 123.4 185.2
115 62.3 48.2 72.2



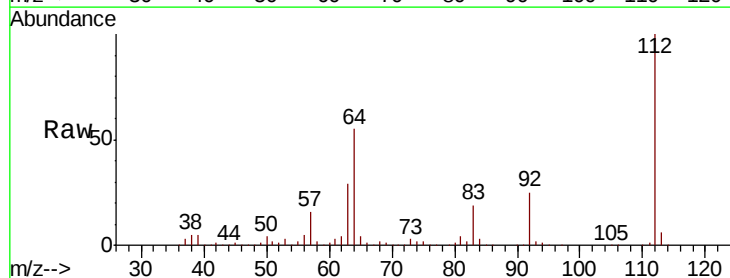
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



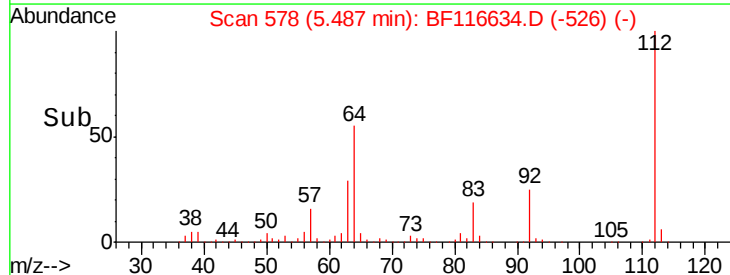
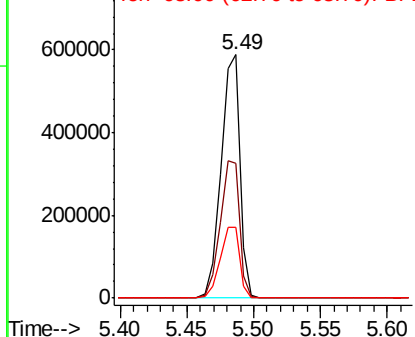
#5

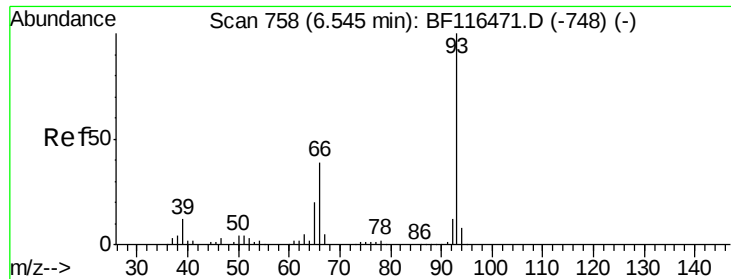
2-Fluorophenol
Concen: 117.789 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion:112 Resp: 589517
Ion Ratio Lower Upper
112 100
64 55.3 48.0 72.0
63 29.0 24.6 36.8



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





#6

Aniline

Concen: 10.905 ng

RT: 6.57 min Scan# 763

Delta R.T. 0.05 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

Instrument :

BNA_F

ClientSampled :

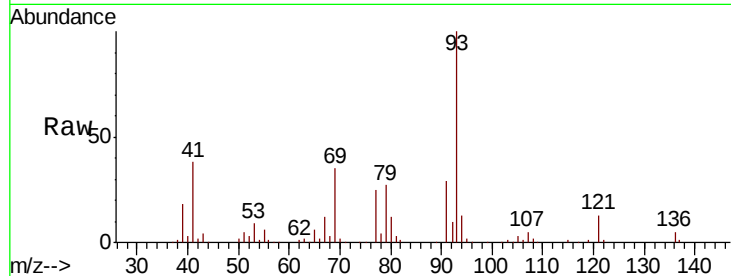
Tot Ion: 93 Resp: 99676

Ion Ratio Lower Upper

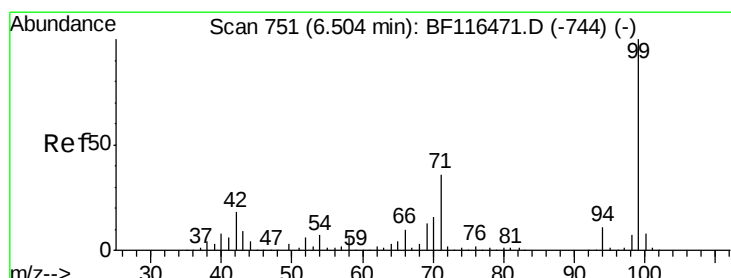
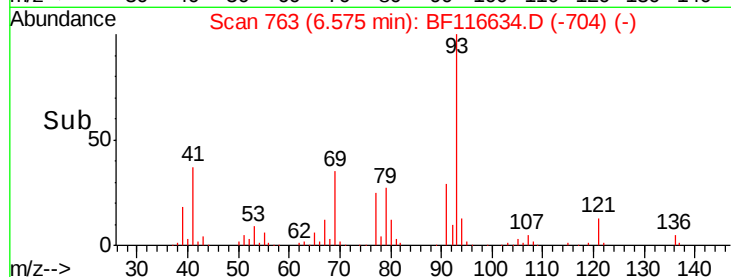
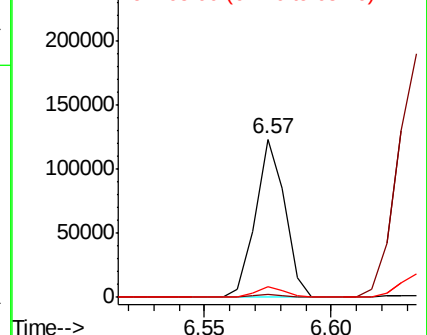
93 100

66 2.1 32.1 48.1#

65 6.4 16.2 24.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 66.00 (65.70 to 66.70): BF1
Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 111.441 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.00 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

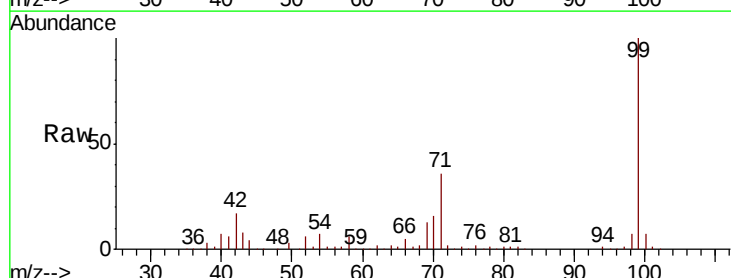
Tgt Ion: 99 Resp: 756160

Ion Ratio Lower Upper

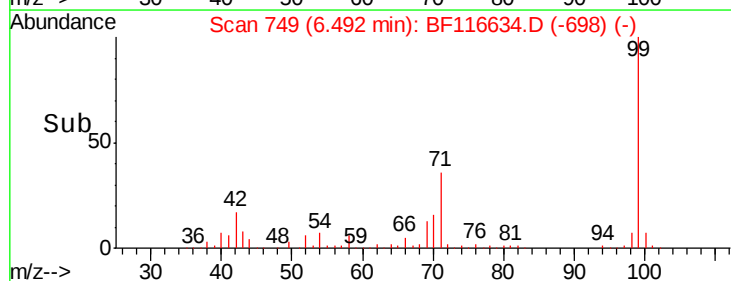
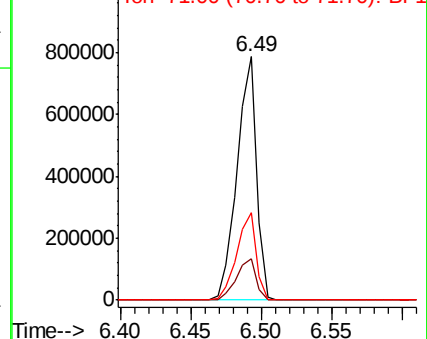
99 100

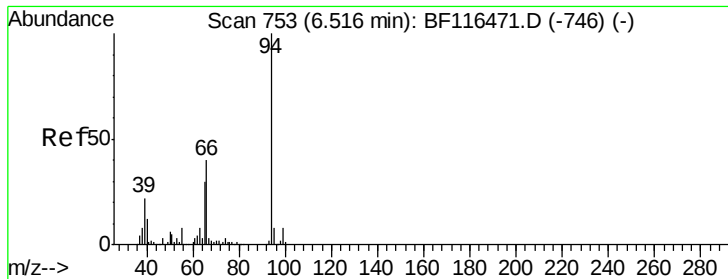
42 17.2 13.2 19.8

71 36.0 27.4 41.2



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1





#10

Phenol

Concen: 6.310 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

Instrument :

BNA_F

ClientSampleId :

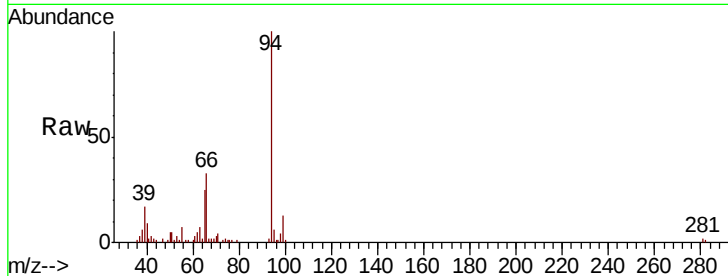
Tot Ion: 94 Resp: 46965

Ion Ratio Lower Upper

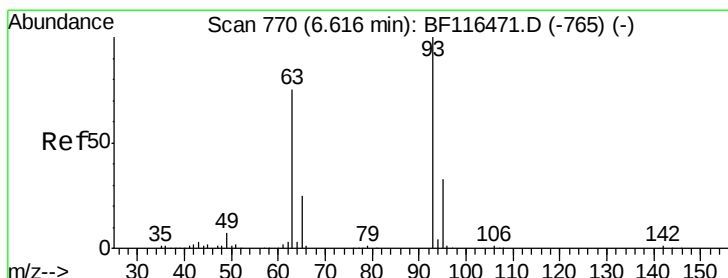
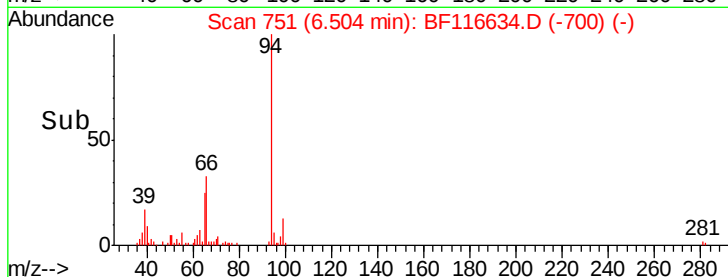
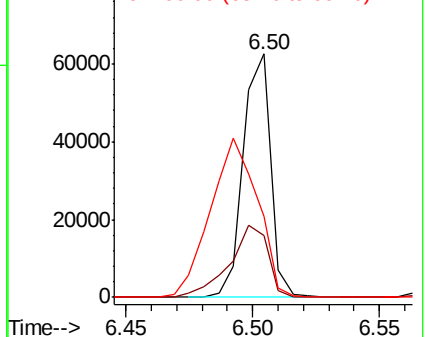
94 100

65 25.3 8.6 48.6

66 33.0 18.0 58.0



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



#11

bis(2-Chloroethyl)ether

Concen: 18.020 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.02 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

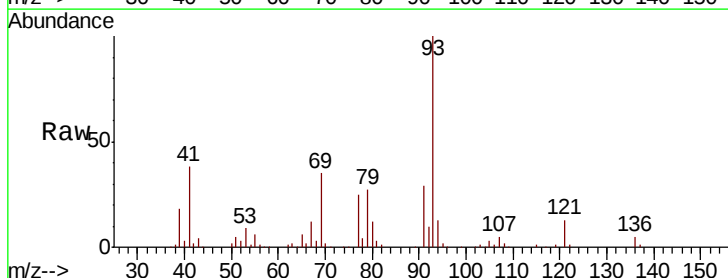
Tgt Ion: 93 Resp: 99676

Ion Ratio Lower Upper

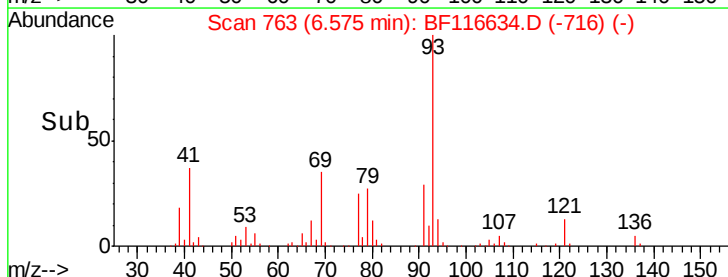
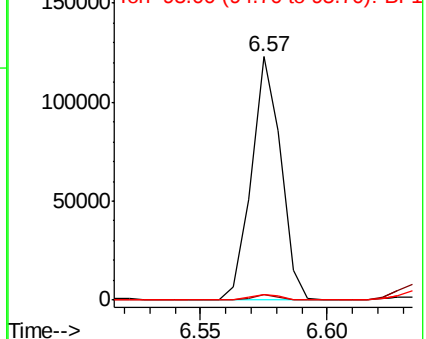
93 100

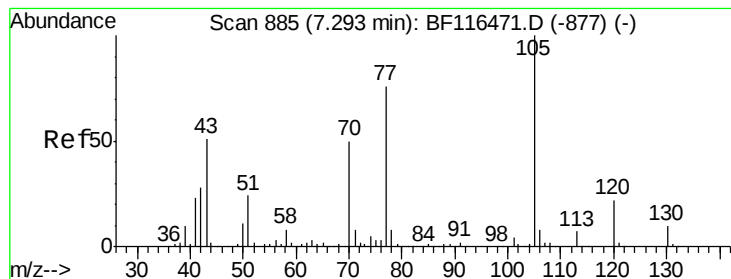
63 2.1 54.7 94.7#

95 2.3 12.7 52.7#



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 63.00 (62.70 to 63.70): BF1
Ion 95.00 (94.70 to 95.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 11.766 ng

RT: 7.42 min Scan# 907

Delta R.T. 0.14 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 50770

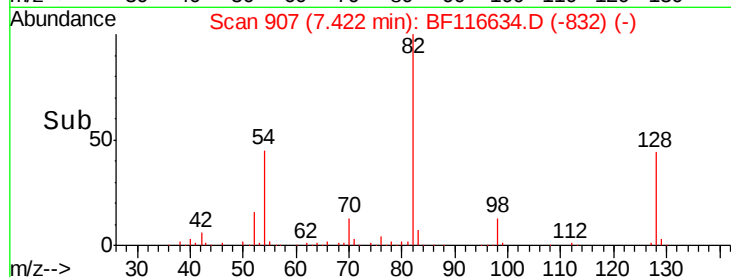
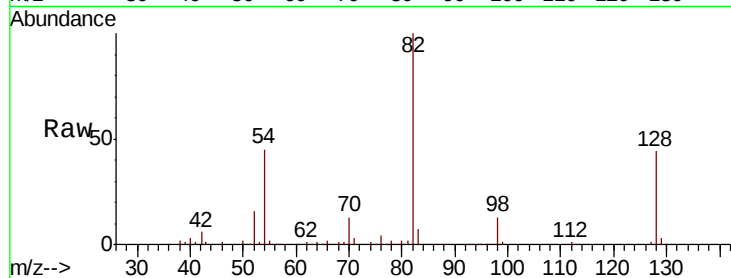
Ion Ratio Lower Upper

70 100

42 44.7 41.2 61.8

101 0.0 7.7 11.5#

130 2.2 17.9 26.9#

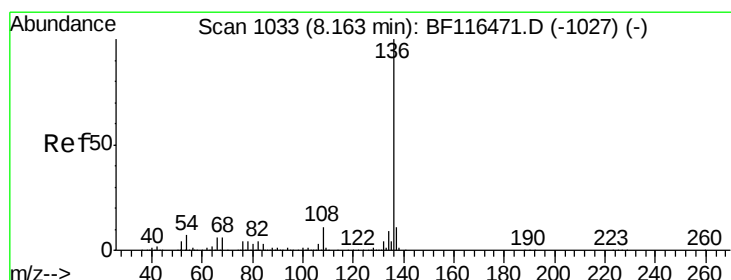
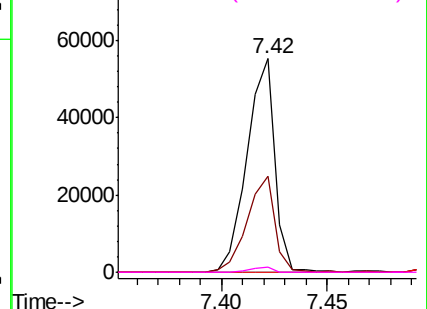


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

Tgt Ion: 136 Resp: 256354

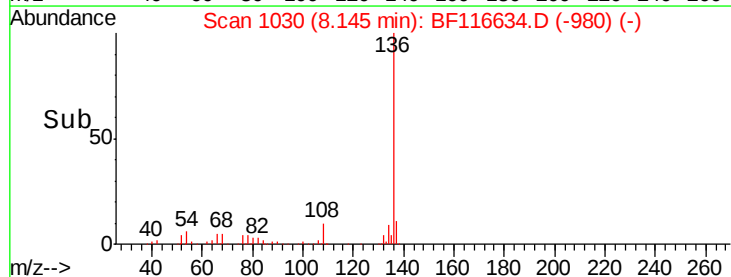
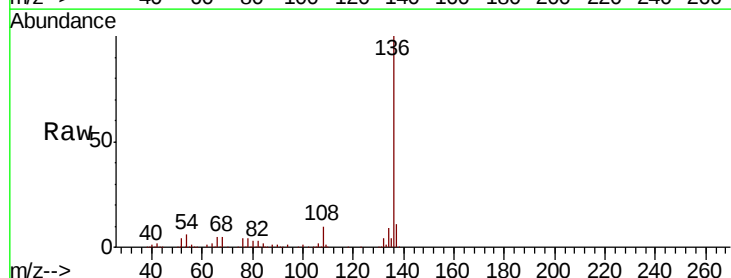
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 6.1 5.0 7.4

68 5.3 4.5 6.7

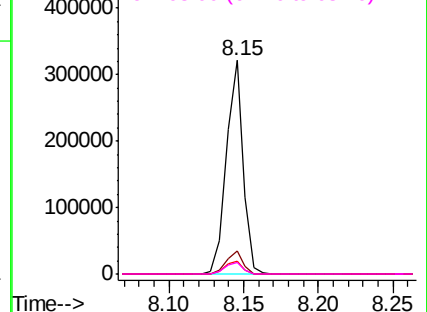


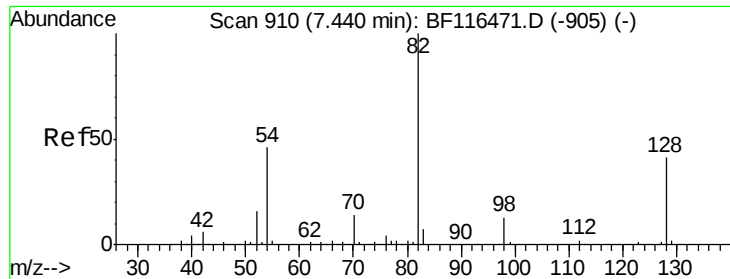
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

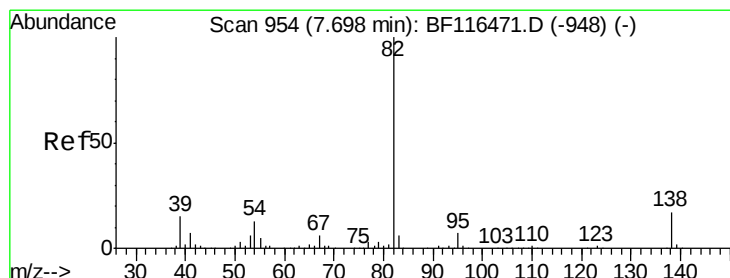
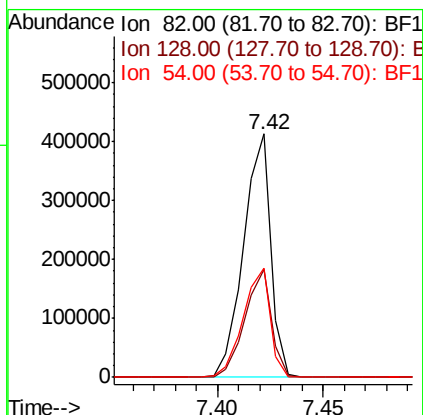
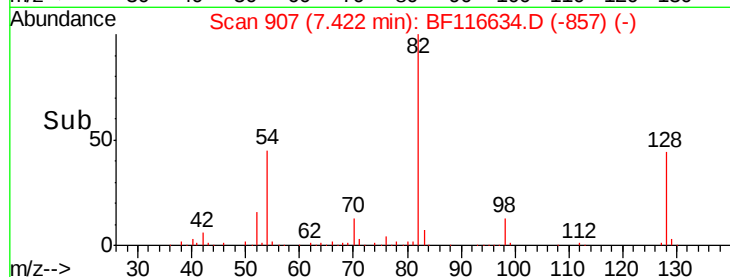
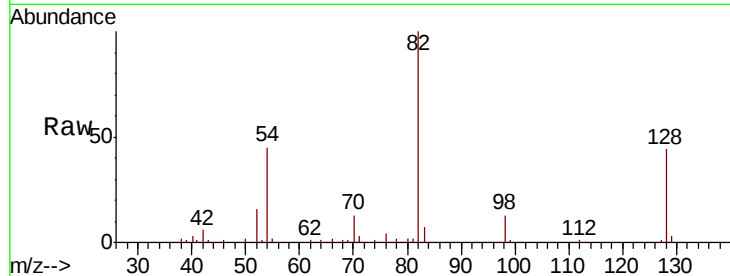




#23
Nitrobenzene-d5
Concen: 82.224 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

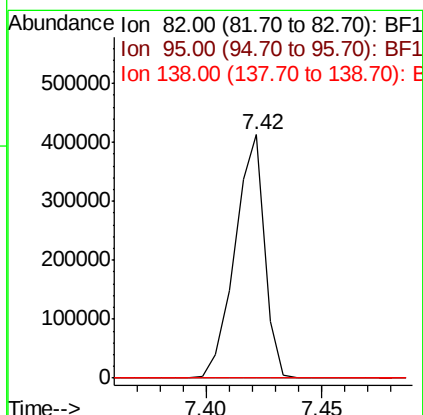
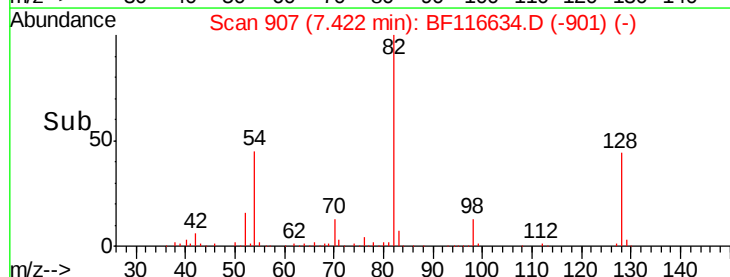
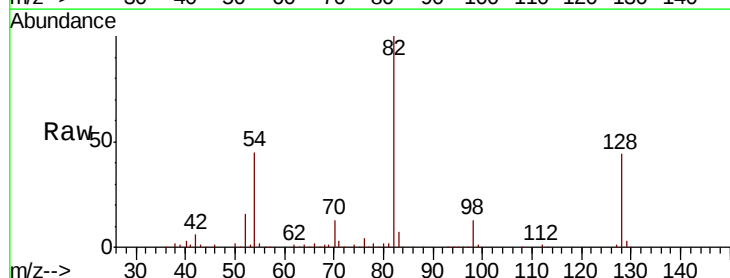
Instrument :
BNA_F
ClientSampled :

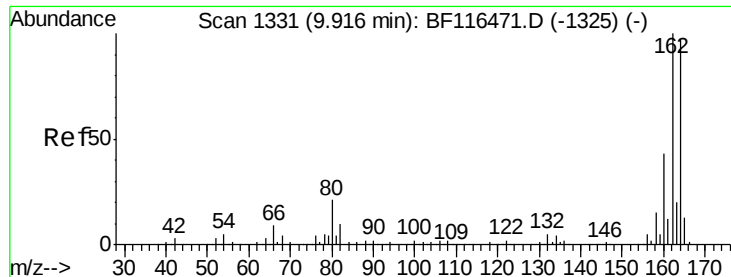
Tot Ion	82	Resp	368376
Ion Ratio	Lower	Upper	
82	100		
128	44.3	35.0	52.6
54	44.8	34.4	51.6



#25
Isophorone
Concen: 45.166 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.26 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion	82	Resp	368368
Ion Ratio	Lower	Upper	
82	100		
95	0.1	5.6	8.4#
138	0.0	14.4	21.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

Instrument :

BNA_F

ClientSampled :

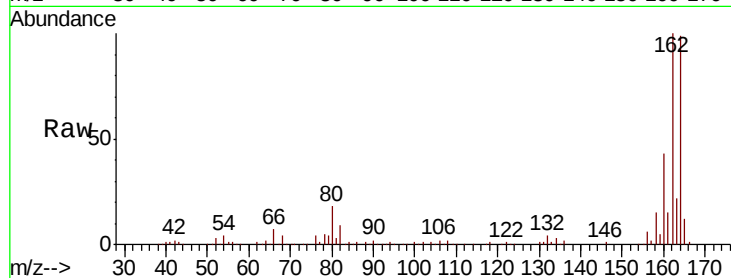
Tot Ion:164 Resp: 168101

Ion Ratio Lower Upper

164 100

162 101.5 83.4 125.0

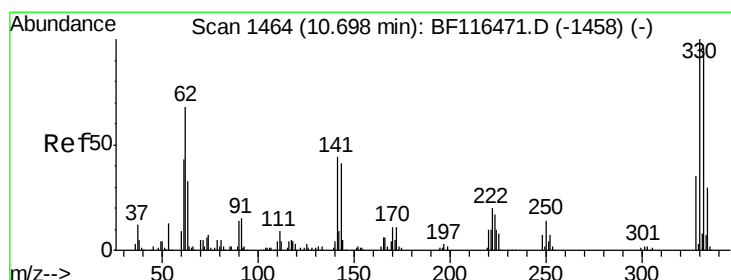
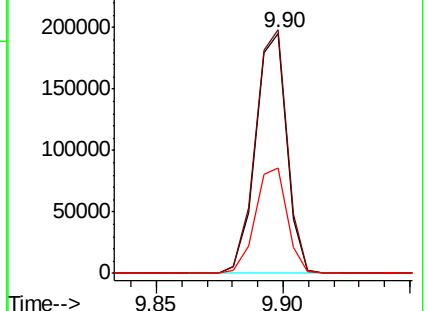
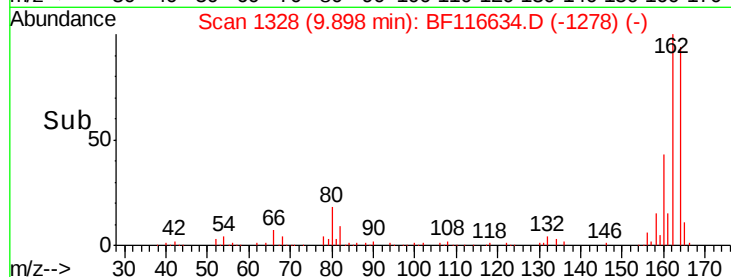
160 43.9 37.0 55.4



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: 104.146 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

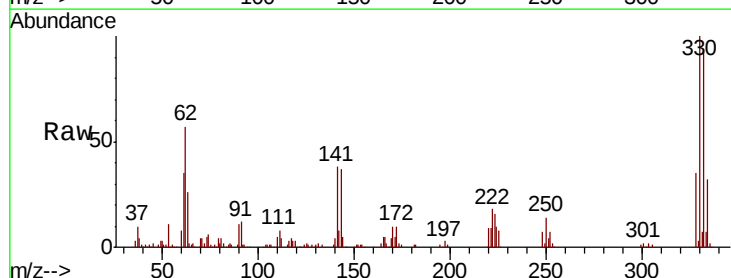
Tgt Ion:330 Resp: 166599

Ion Ratio Lower Upper

330 100

332 95.5 77.5 116.3

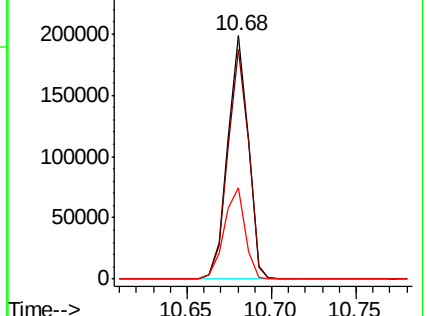
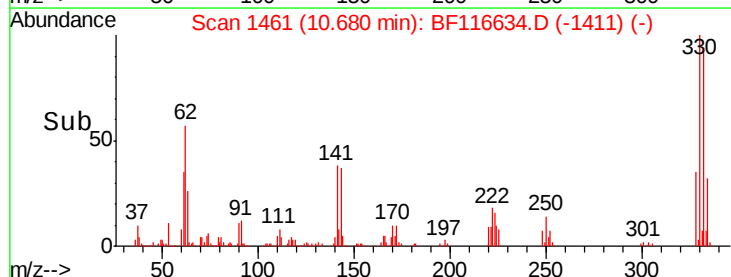
141 38.5 28.2 42.2

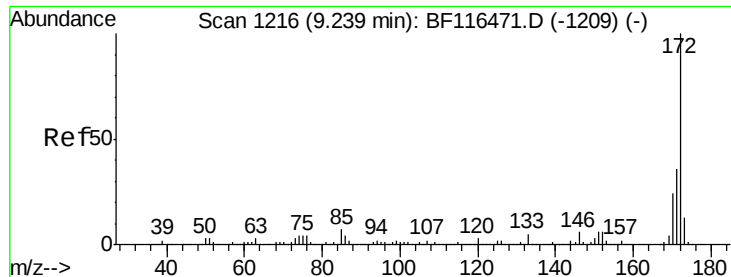


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

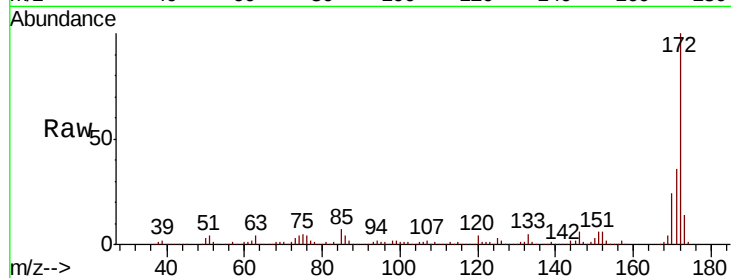




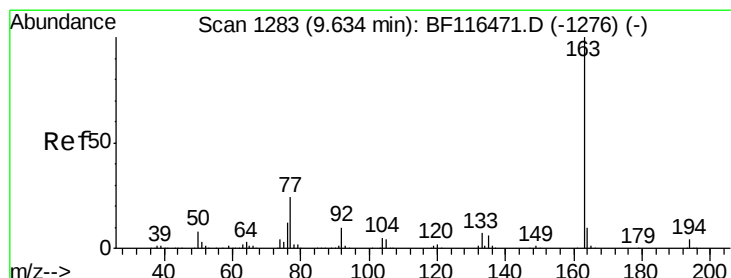
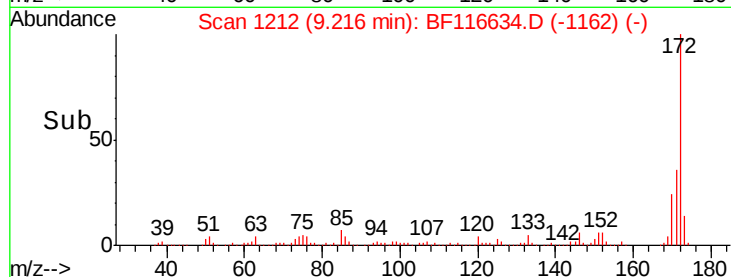
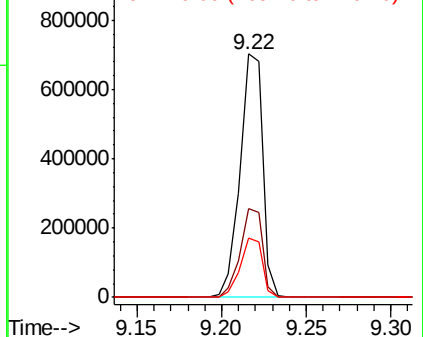
#45
 2-Fluorobiphenyl
 Concen: 64.952 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.6
170	24.4	19.3	28.9

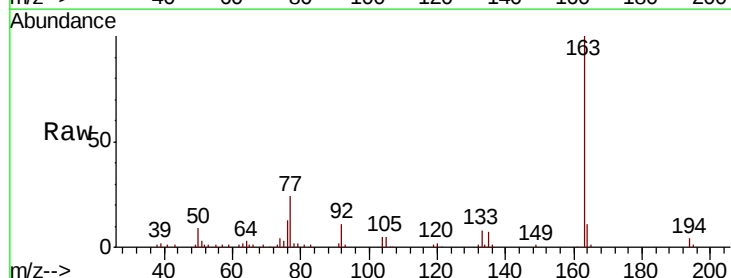


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

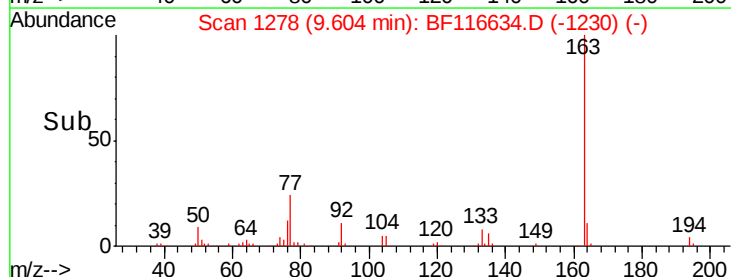
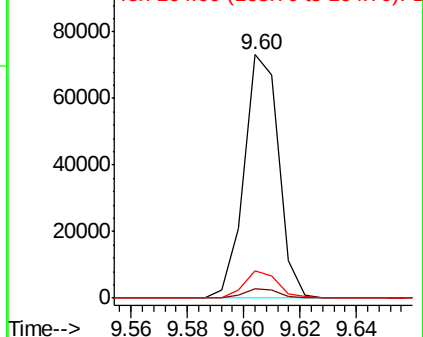


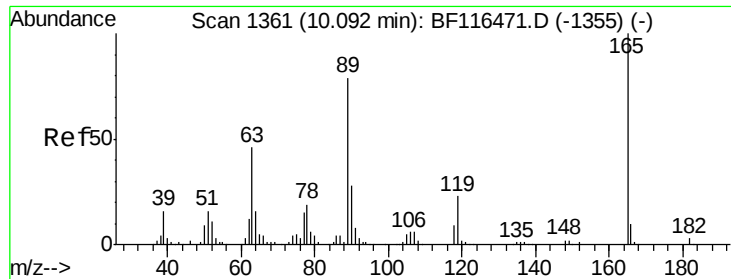
#50
 Dimethylphthalate
 Concen: 5.478 ng
 RT: 9.60 min Scan# 1278
 Delta R.T. -0.02 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	11.1	8.2	12.2



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

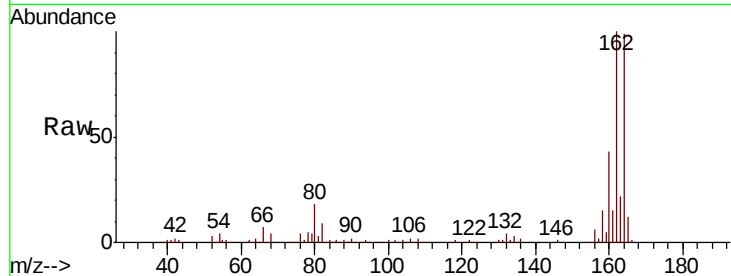




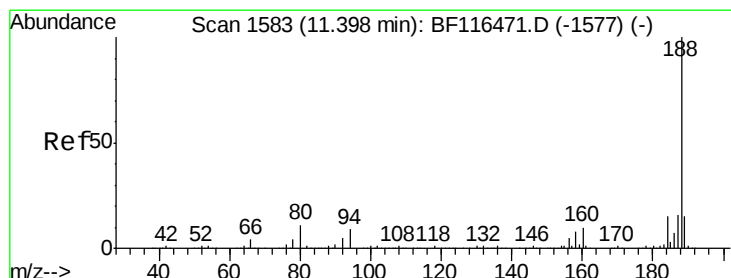
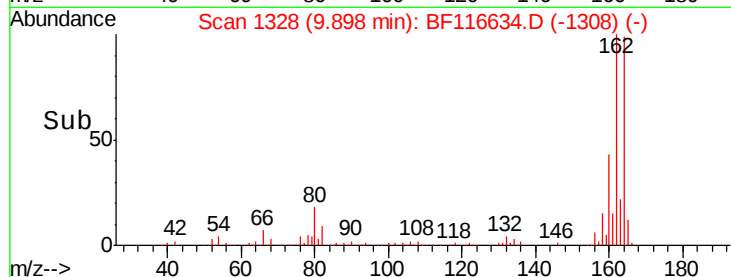
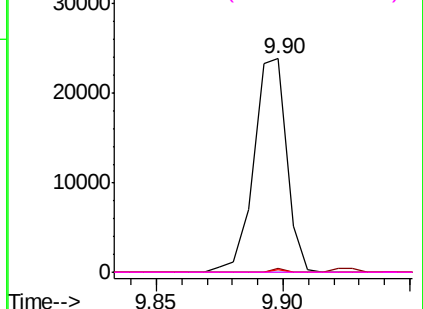
#57
 2,4-Dinitrotoluene
 Concen: 6.566 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.18 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165	Resp:	21591
Ion Ratio	Lower	Upper
165	100	
63	1.6	30.9 46.3#
89	1.3	55.0 82.6#
182	0.0	2.2 3.2#

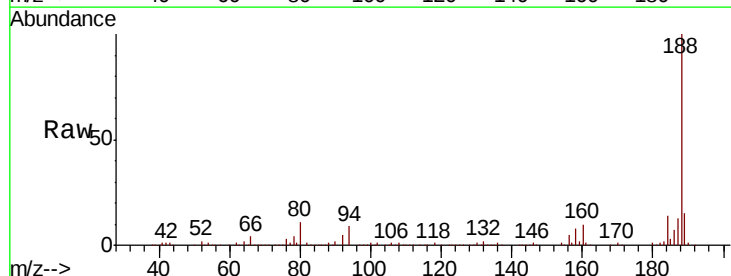


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

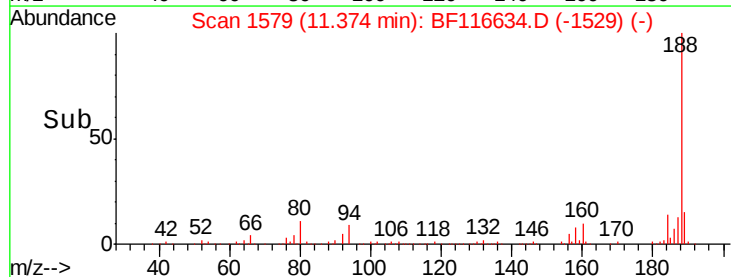
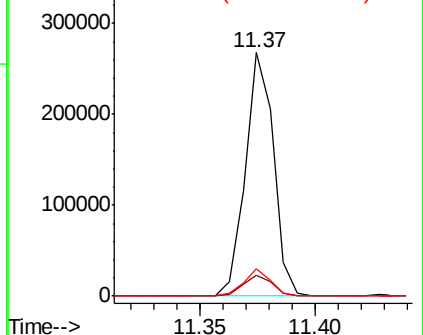


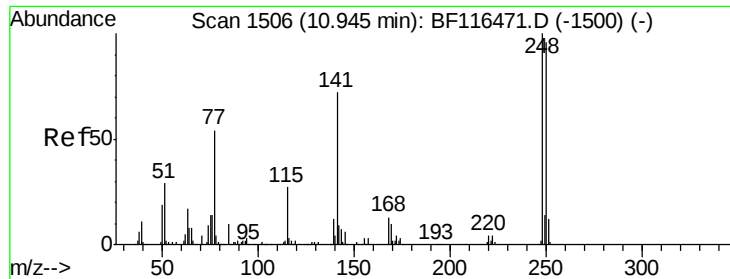
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Tgt Ion:188	Resp:	228241
Ion Ratio	Lower	Upper
188	100	
94	8.7	8.2 12.4
80	11.3	8.9 13.3



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

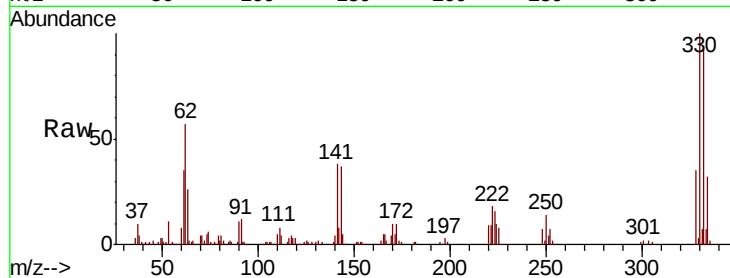




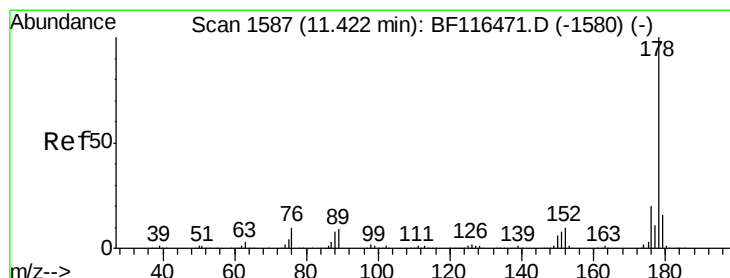
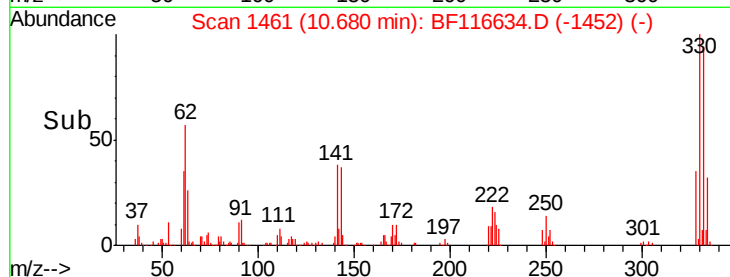
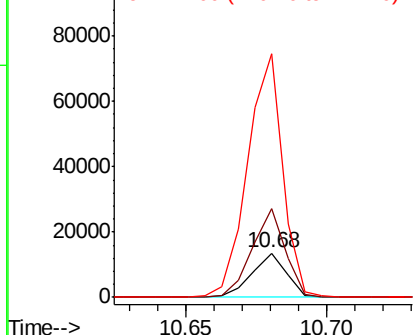
#67
 4-Bromophenyl-phenylether
 Concen: 4.710 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.25 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 11402
 Ion Ratio Lower Upper
 248 100
 250 202.1 76.6 115.0#
 141 553.0 60.8 91.2#

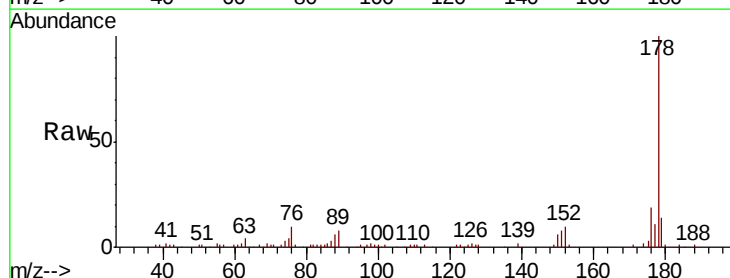


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

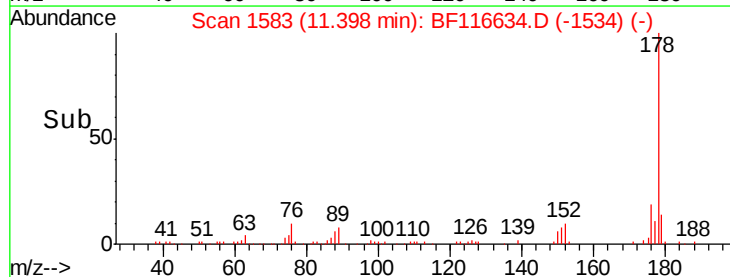
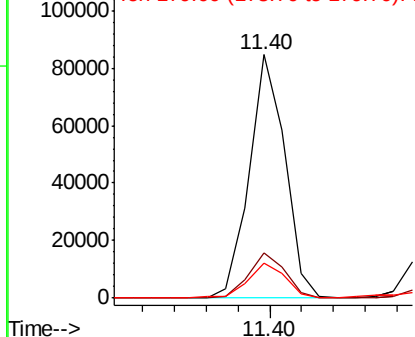


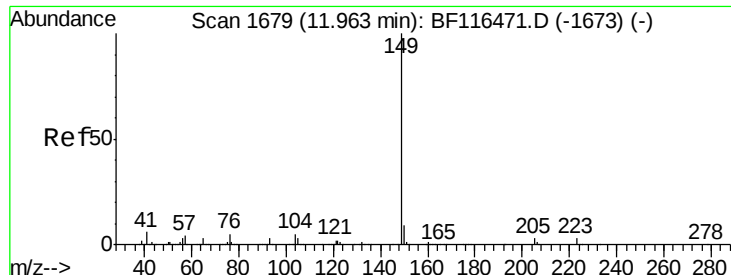
#71
 Phenanthrene
 Concen: 5.393 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Tgt Ion:178 Resp: 66119
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.5 23.3
 179 14.2 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

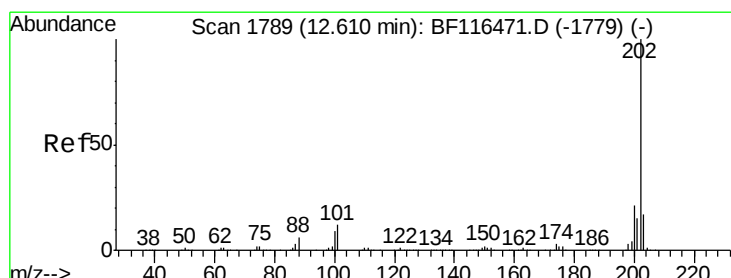
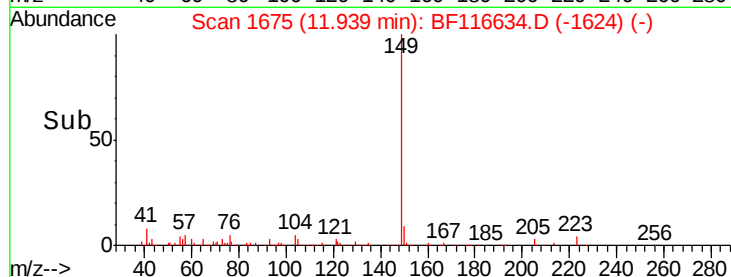
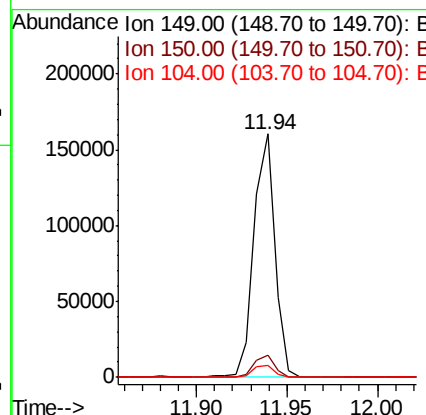
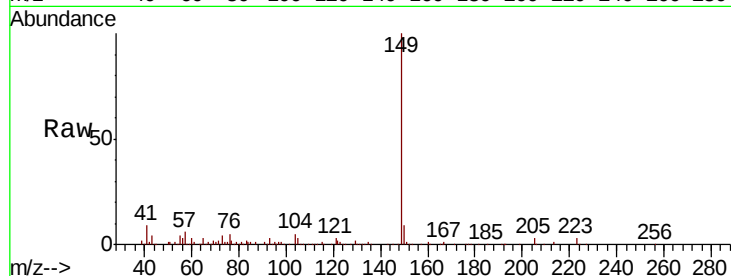




#74
Di-n-butylphthalate
Concen: 10.760 ng
RT: 11.94 min Scan# 1675
Delta R.T. -0.00 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

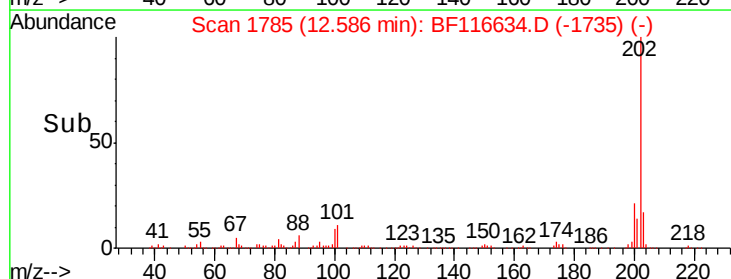
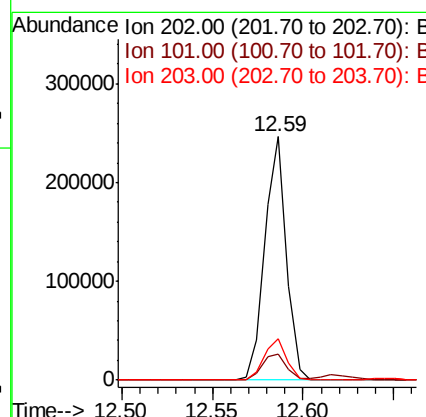
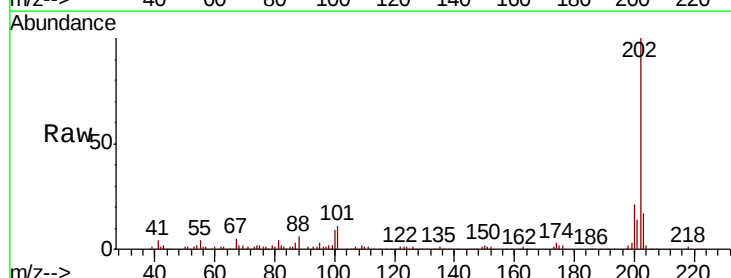
Instrument :
BNA_F
ClientSampleId :

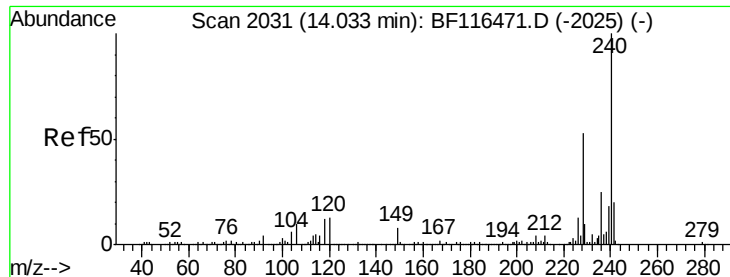
Tot Ion:149 Resp: 130094
Ion Ratio Lower Upper
149 100
150 8.9 7.7 11.5
104 5.1 4.2 6.4



#75
Fluoranthene
Concen: 18.582 ng
RT: 12.59 min Scan# 1785
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion:202 Resp: 204305
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.8
203 16.9 0.0 37.1

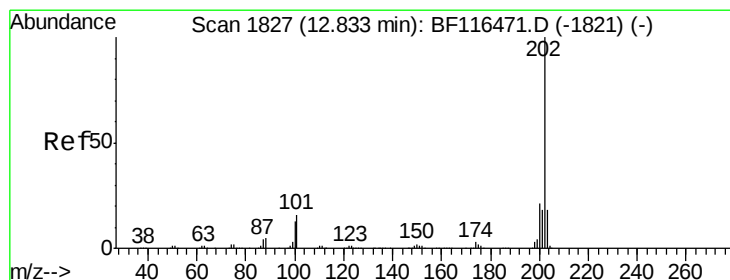
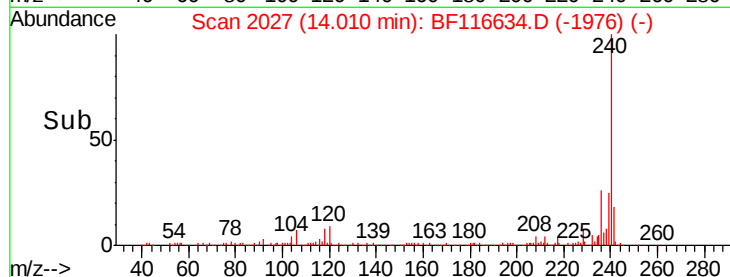
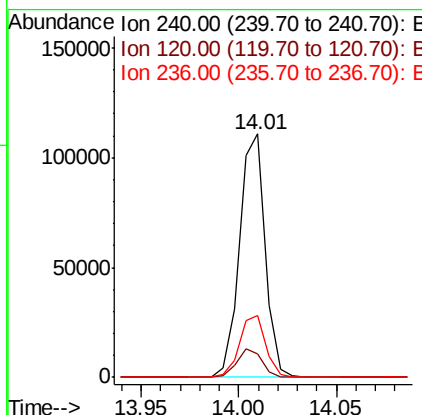
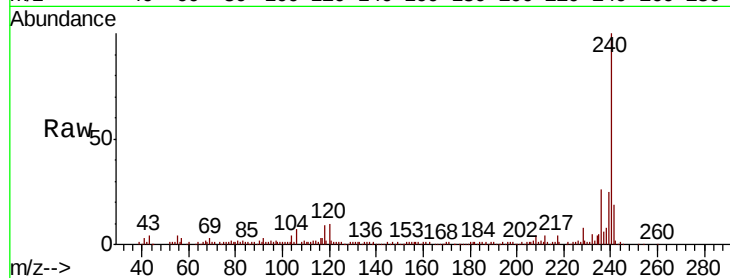




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.00 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

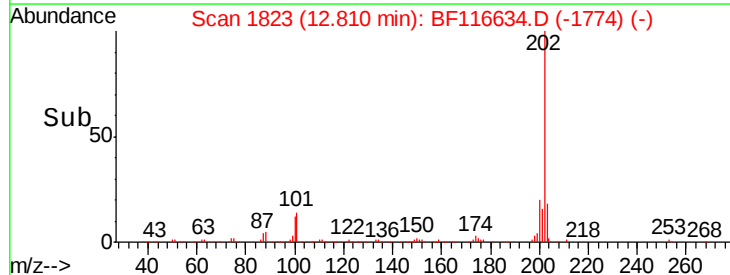
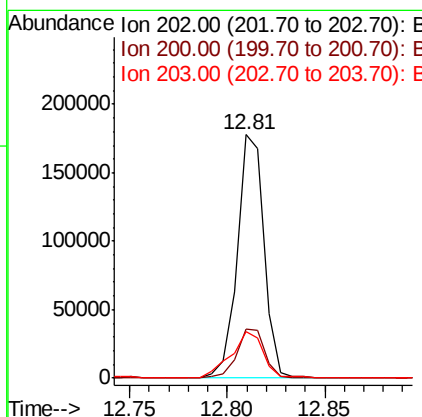
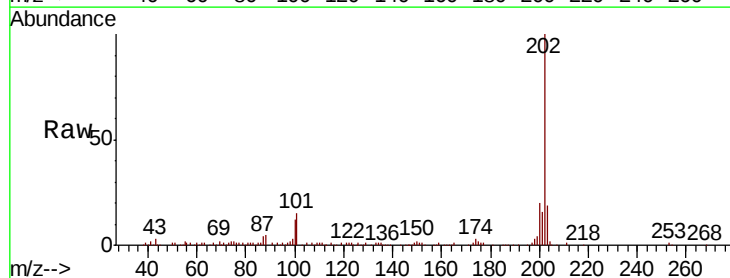
Instrument :
BNA_F
ClientSampled :

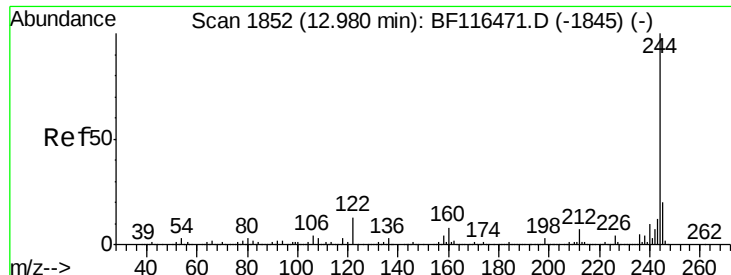
Tot Ion	Ratio	Lower	Upper
240	100		
120	9.8	11.3	16.9#
236	25.6	21.4	32.2



#78
Pyrene
Concen: 18.248 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.4	26.0
203	18.9	14.2	21.4

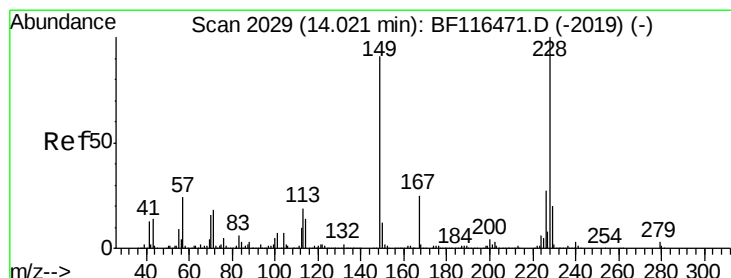
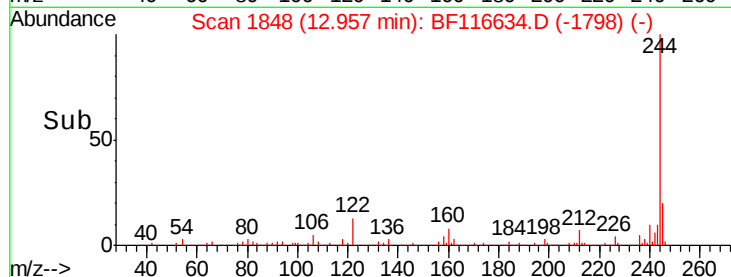
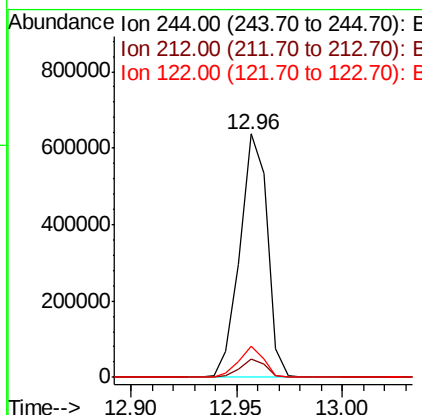
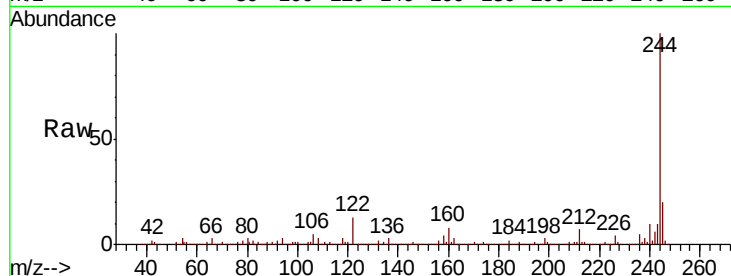




#79
 Terphenyl-d14
 Concen: 92.258 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.01 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

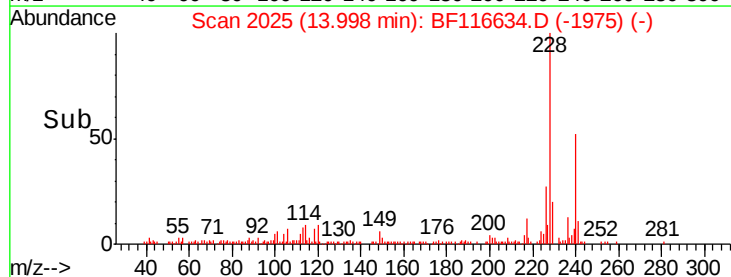
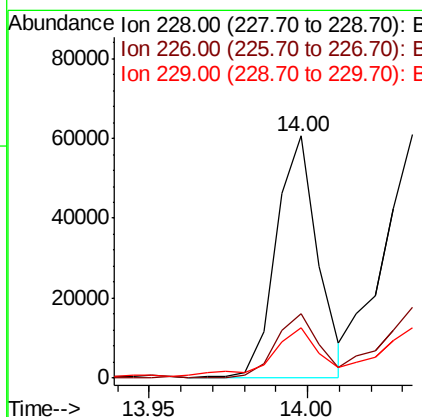
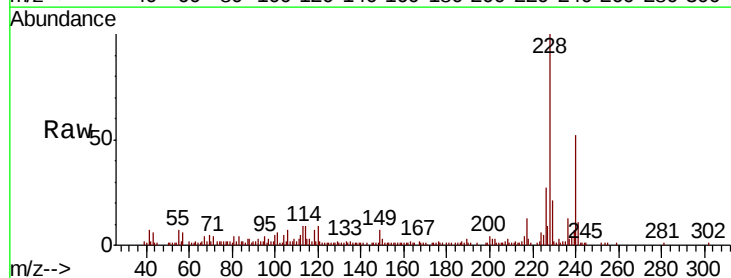
Instrument :
 BNA_F
 ClientSampleId :

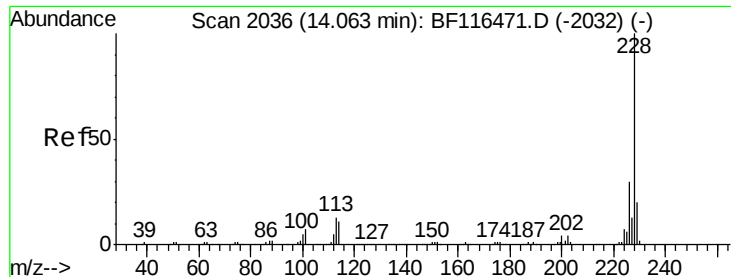
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.9	8.9
122	12.7	10.0	15.0



#81
 Benzo(a)anthracene
 Concen: 8.255 ng
 RT: 14.00 min Scan# 2025
 Delta R.T. -0.01 min
 Lab File: BF116634.D
 Acq: 29 Aug 2019 00:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.5	32.3
229	20.8	15.4	23.0

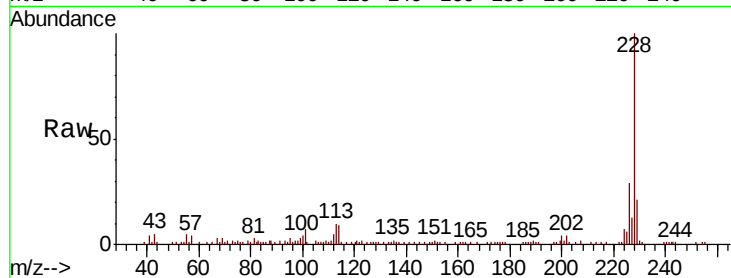




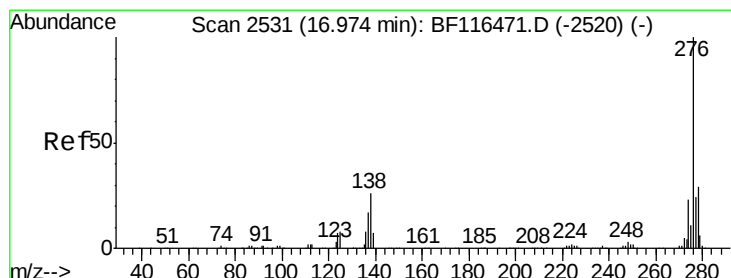
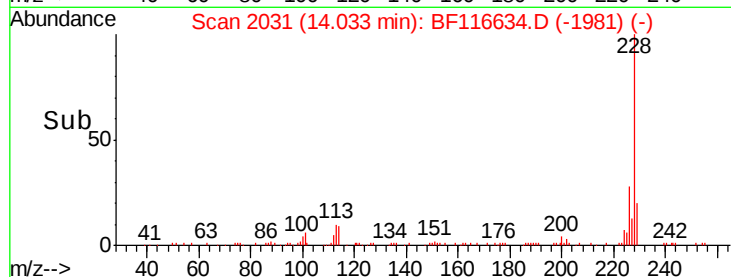
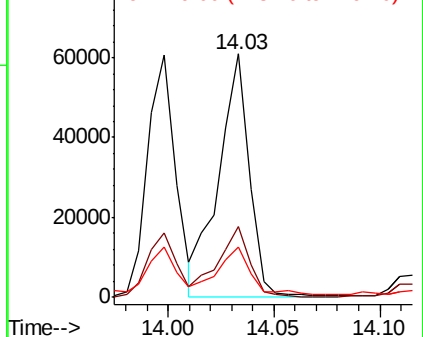
#83
Chrysene
Concen: 9.342 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 61470
Ion Ratio Lower Upper
228 100
226 28.8 24.0 36.0
229 20.8 15.8 23.8

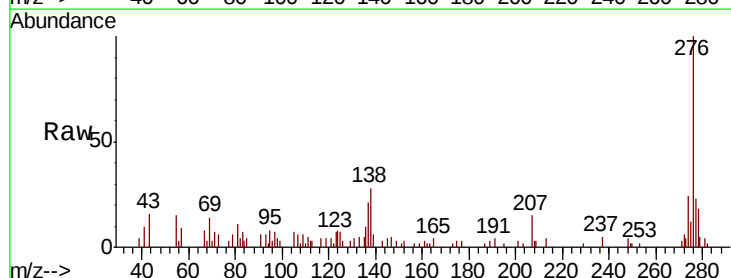


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

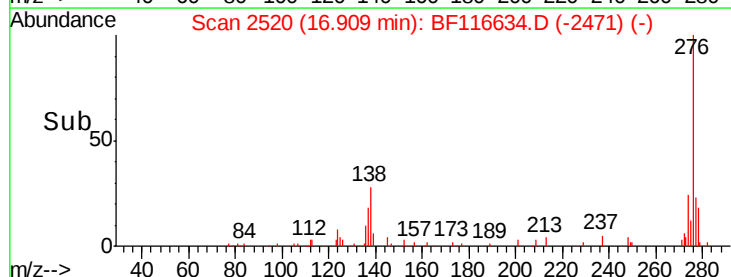
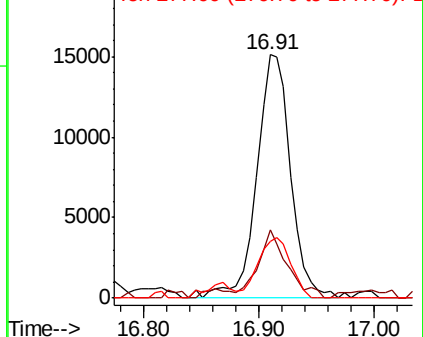


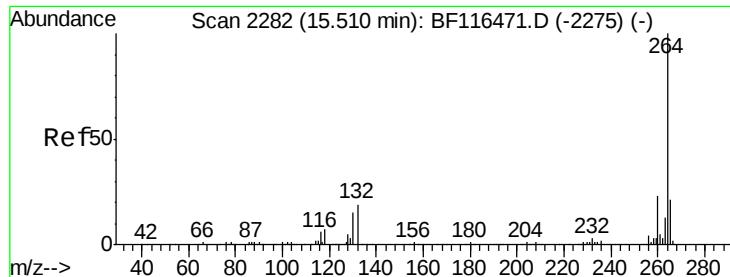
#86
Indeno(1,2,3-cd)pyrene
Concen: 9.472 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion:276 Resp: 30906
Ion Ratio Lower Upper
276 100
138 24.1 21.5 32.3
277 24.1 20.0 30.0



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

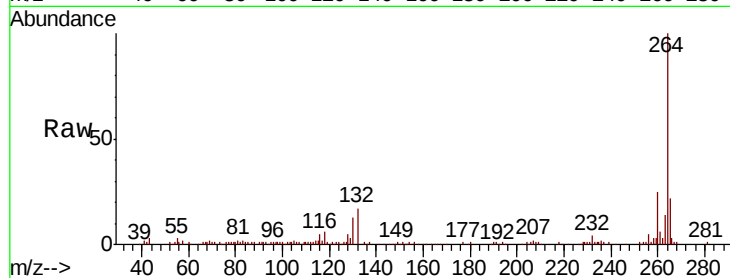




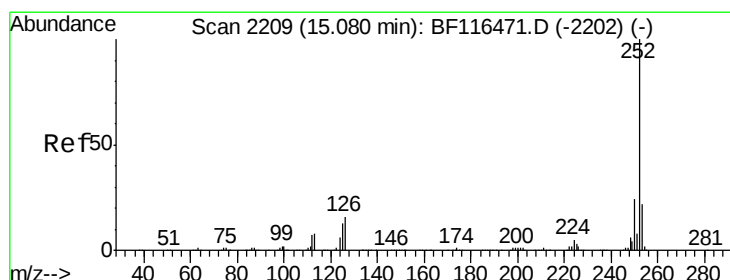
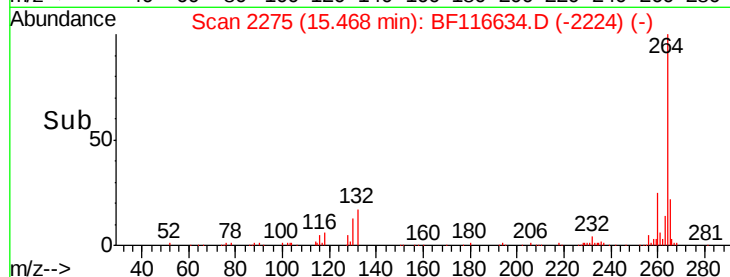
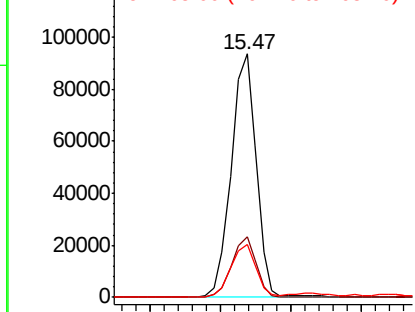
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. -0.00 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 115236
Ion Ratio Lower Upper
264 100
260 25.0 20.0 30.0
265 21.6 17.6 26.4

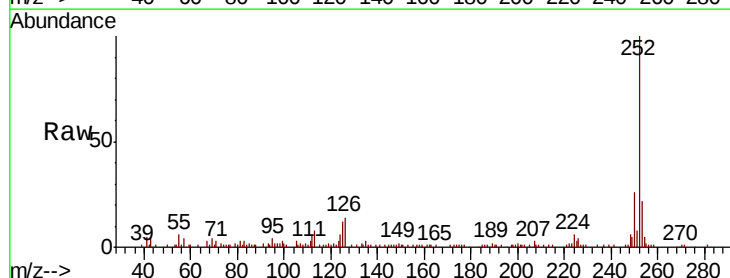


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

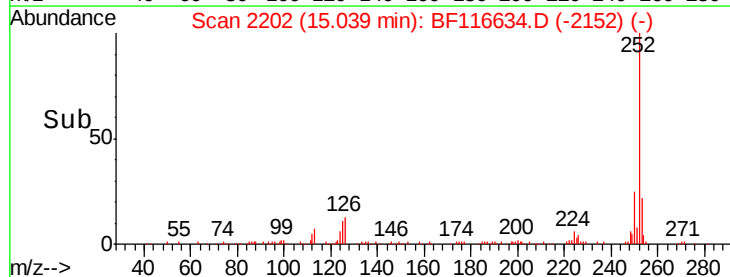
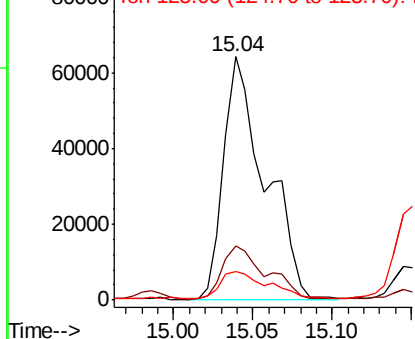


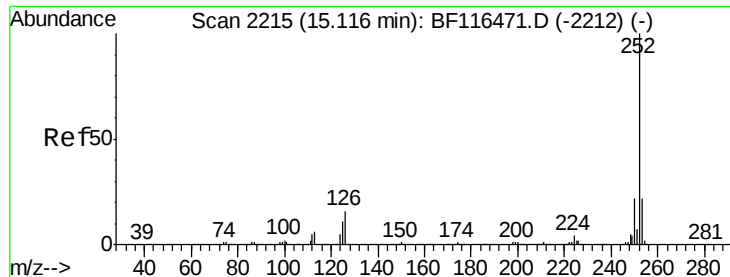
#88
Benzo(b)fluoranthene
Concen: 16.698 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion:252 Resp: 118168
Ion Ratio Lower Upper
252 100
253 22.4 17.3 25.9
125 11.5 9.0 13.6



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

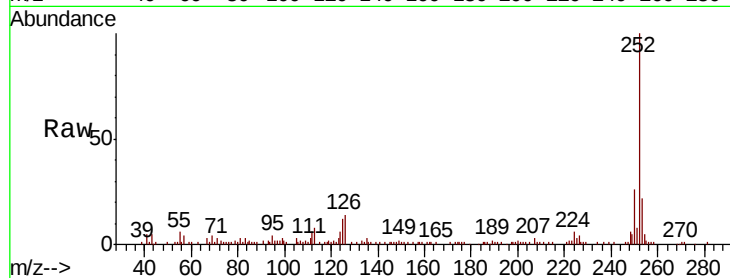




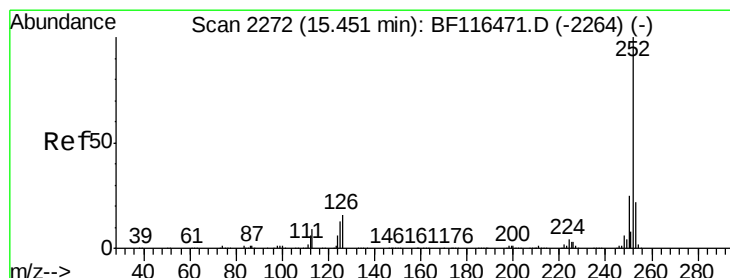
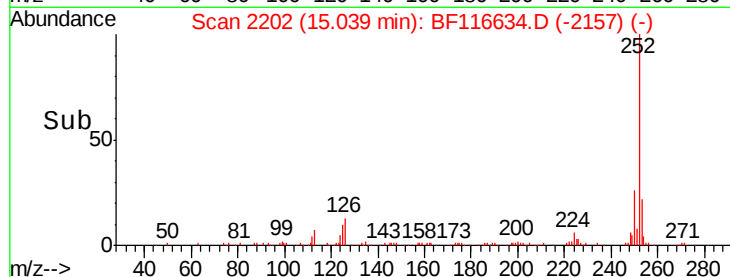
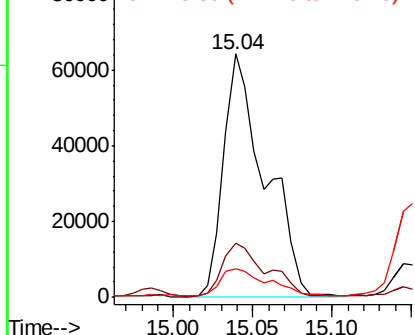
#89
Benzo(k)fluoranthene
Concen: 17.567 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.04 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 118168
Ion Ratio Lower Upper
252 100
253 22.4 17.2 25.8
125 11.5 8.6 13.0

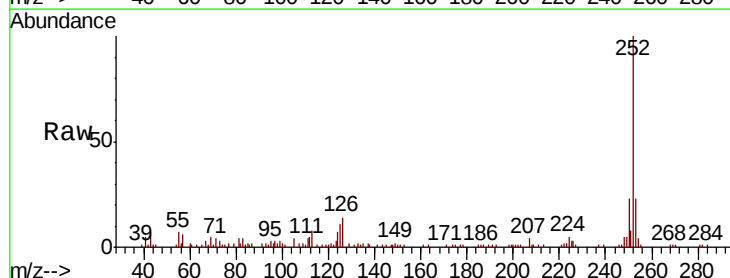


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

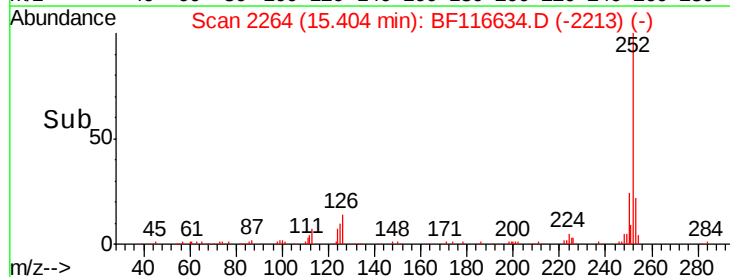
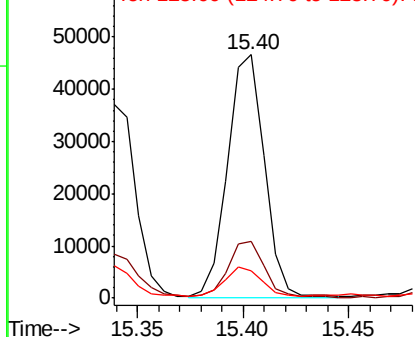


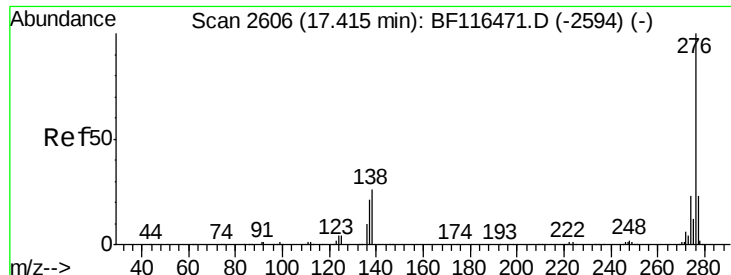
#90
Benzo(a)pyrene
Concen: 9.006 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.00 min
Lab File: BF116634.D
Acq: 29 Aug 2019 00:07

Tgt Ion:252 Resp: 56879
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 11.4 10.6 16.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 4.469 ng

RT: 17.35 min Scan# 2595

Delta R.T. -0.01 min

Lab File: BF116634.D

Acq: 29 Aug 2019 00:07

Instrument :

BNA_F

ClientSampleId :

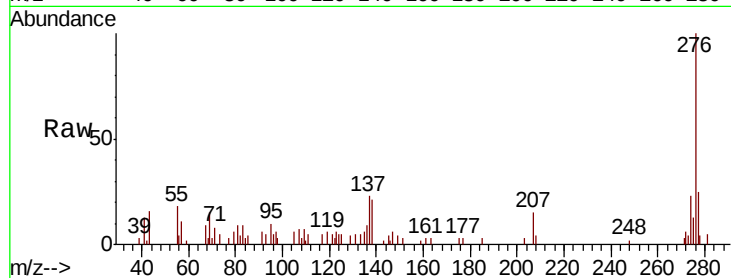
Tot Ion:276 Resp: 27385

Ion Ratio Lower Upper

276 100

277 24.8 19.0 28.4

138 21.0 18.2 27.2



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

