

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090419\
 Data File : BF116807.D
 Acq On : 4 Sep 2019 11:30
 Operator : HP/JU
 Sample : K4622-19
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 05 02:04:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	73332	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	289794	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	149012	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	247544	20.00	ng	0.00
76) Chrysene-d12	13.99	240	187414	20.00	ng	0.00
87) Perylene-d12	15.44	264	176883	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	423900	93.65	ng	0.00
7) Phenol-d6	6.47	99	586238	98.63	ng	0.00
23) Nitrobenzene-d5	7.40	82	370969	73.08	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	123933	124.41	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	579956	65.65	ng	0.00
79) Terphenyl-d14	12.94	244	561101	55.39	ng	0.00

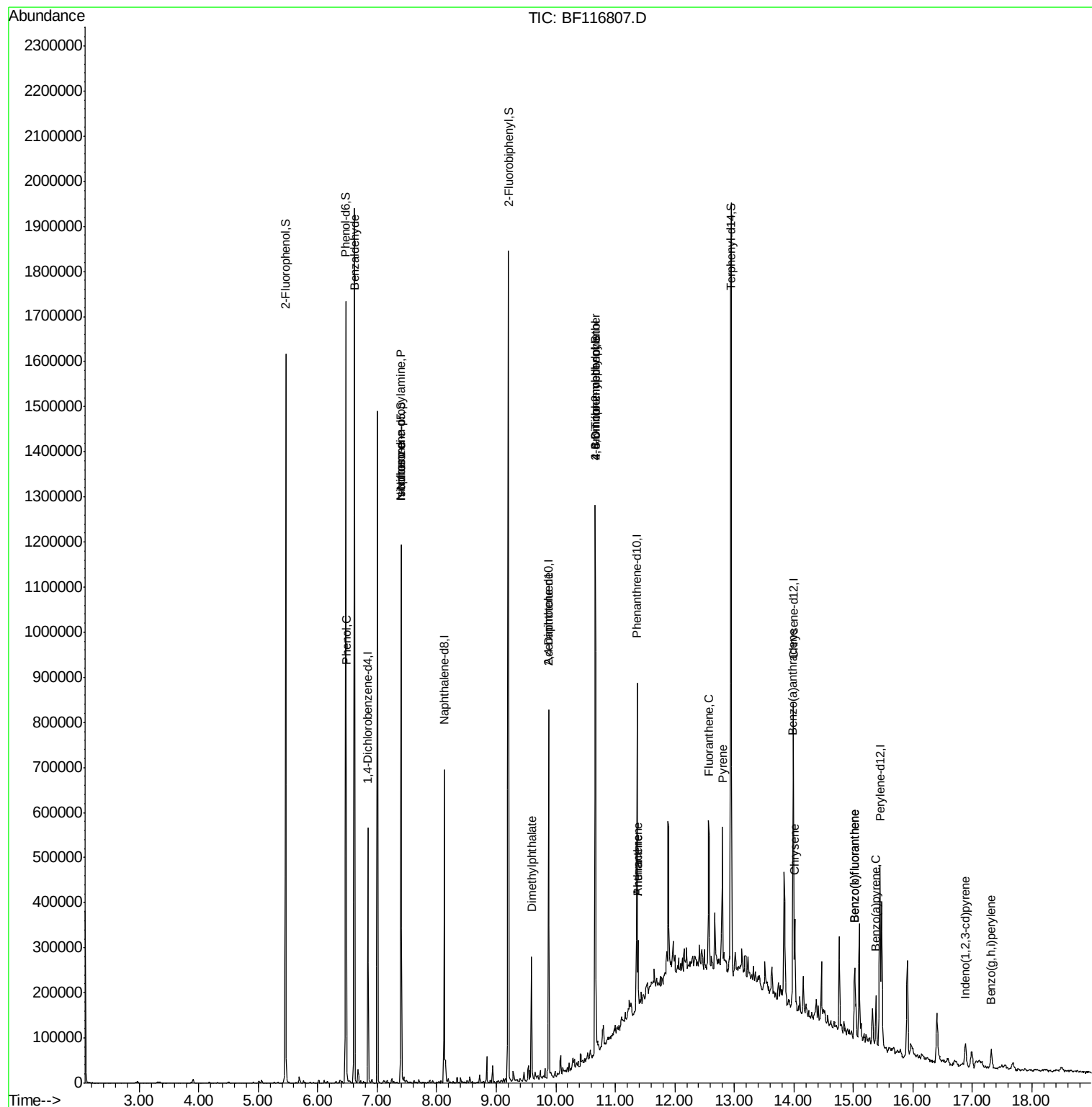
Target Compounds				Qvalue		
9) Benzaldehyde	6.62	77	11044	2.820	ng	82
10) Phenol	6.49	94	13858	2.106	ng	99
19) n-Nitroso-di-n-propylamine	7.40	70	48386	12.364	ng	# 73
25) Isophorone	7.40	82	370964	36.064	ng	# 66
50) Dimethylphthalate	9.59	163	103509	10.061	ng	97
57) 2,4-Dinitrotoluene	9.88	165	19842	8.267	ng	# 21
65) 4,6-Dinitro-2-methylphenol	10.66	198	123	7.565	ng	# 1
67) 4-Bromophenyl-phenylether	10.66	248	8166	3.247	ng	# 1
71) Phenanthrene	11.39	178	52022	3.775	ng	97
72) Anthracene	11.39	178	52022	3.750	ng	97
75) Fluoranthene	12.57	202	123660	9.131	ng	99
78) Pyrene	12.80	202	117568	7.057	ng	99
81) Benzo(a)anthracene	13.98	228	70684	5.959	ng	99
83) Chrysene	14.02	228	68739	5.625	ng	98
86) Indeno(1,2,3-cd)pyrene	16.88	276	33196	3.382	ng	95
88) Benzo(b)fluoranthene	15.02	252	103246	9.654	ng	# 97
89) Benzo(k)fluoranthene	15.02	252	103246	10.589	ng	97
90) Benzo(a)pyrene	15.38	252	52931	5.689	ng	97
92) Benzo(a,h,i)perylene	17.32	276	30661	3.692	ng	95

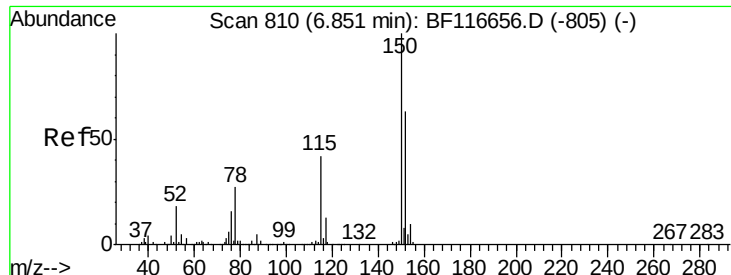
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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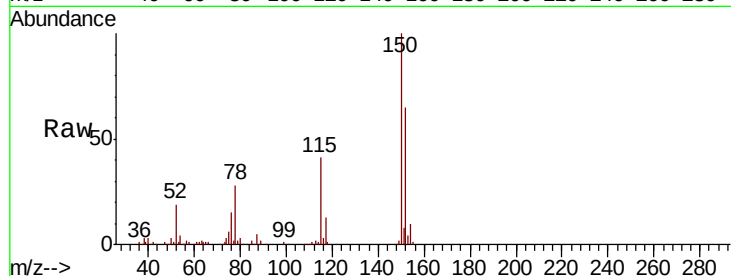


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.4	186.6
115	63.7	49.9	74.9

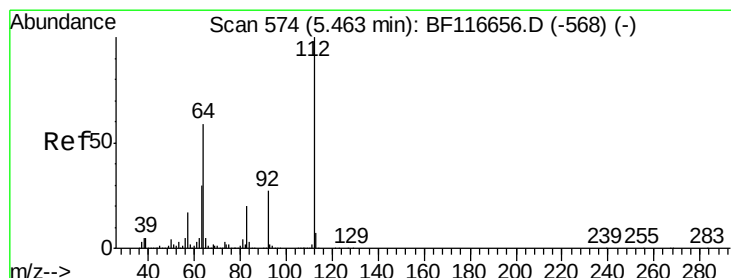
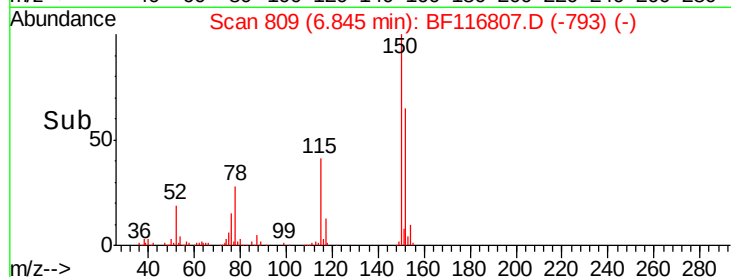
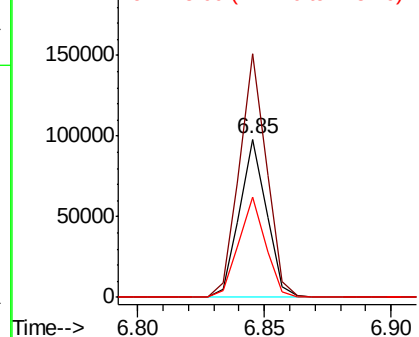


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

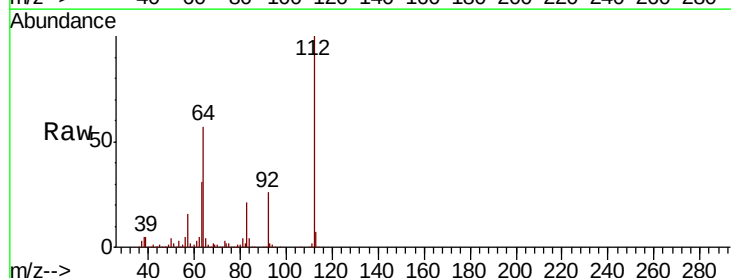
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 93.648 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	47.1	70.7
63	30.9	24.9	37.3

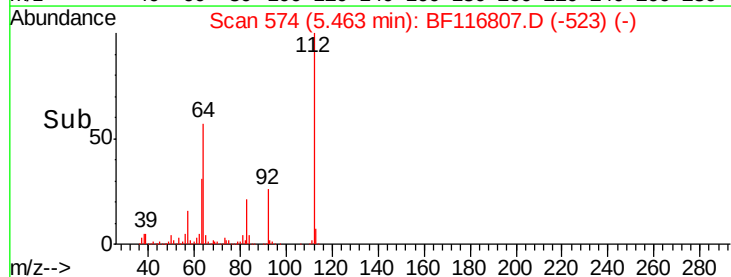
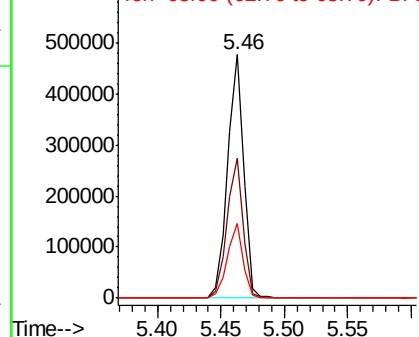


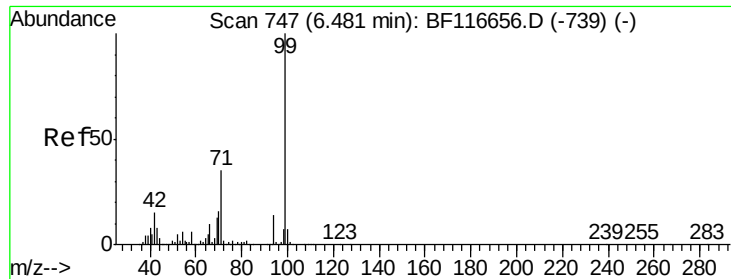
Abundance

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: 98.630 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Instrument :

BNA_F

ClientSampleId :

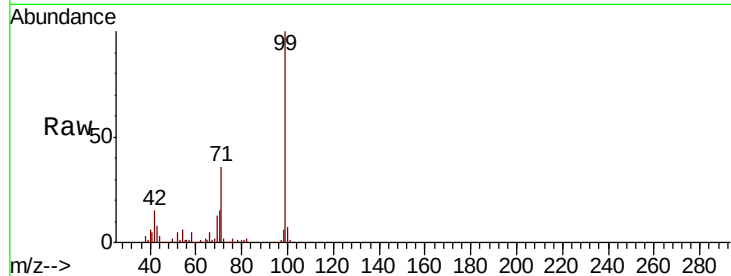
Tot Ion: 99 Resp: 586238

Ion Ratio Lower Upper

99 100

42 15.3 13.7 20.5

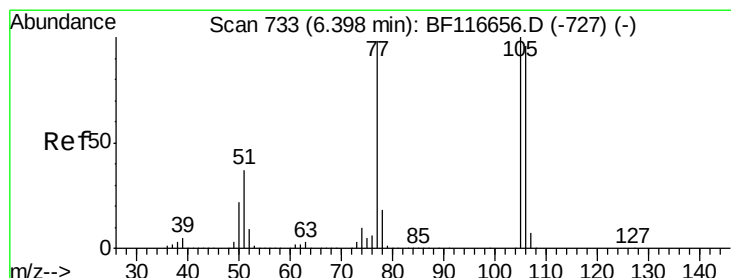
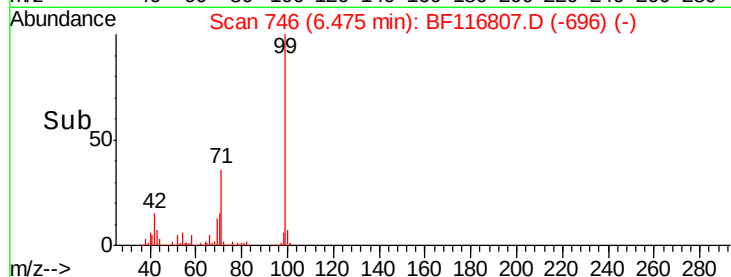
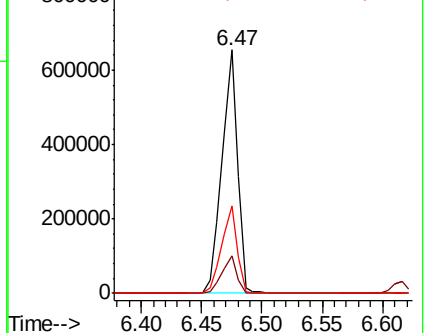
71 35.7 30.8 46.2



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



#9

Benzaldehyde

Concen: 2.820 ng

RT: 6.62 min Scan# 770

Delta R.T. 0.22 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

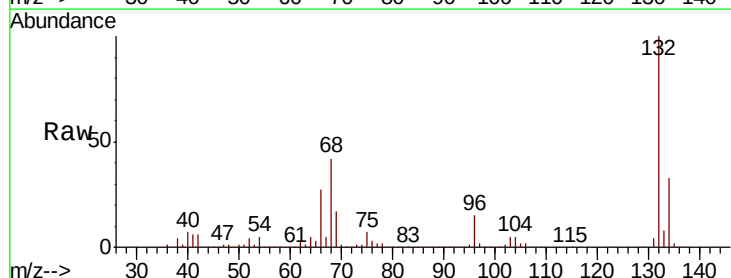
Tgt Ion: 77 Resp: 11044

Ion Ratio Lower Upper

77 100

105 79.5 76.7 116.7

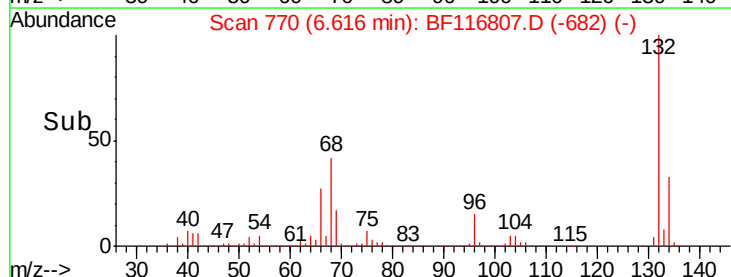
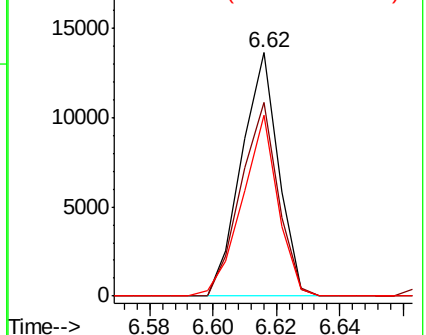
106 74.5 73.1 113.1

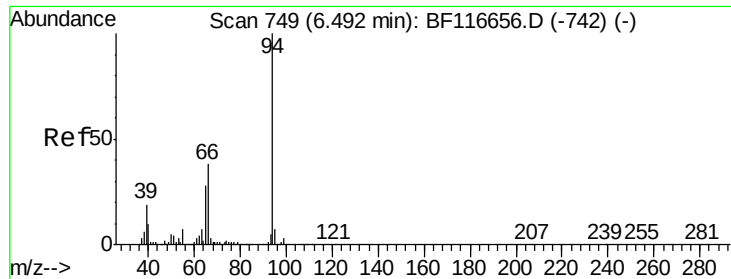


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 2.106 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Instrument :

BNA_F

ClientSampleId :

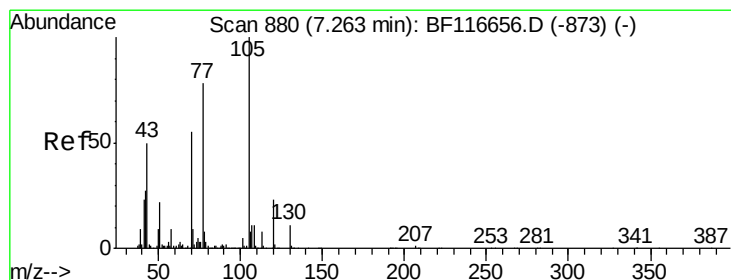
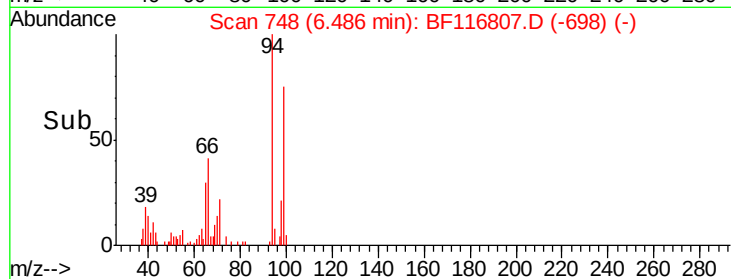
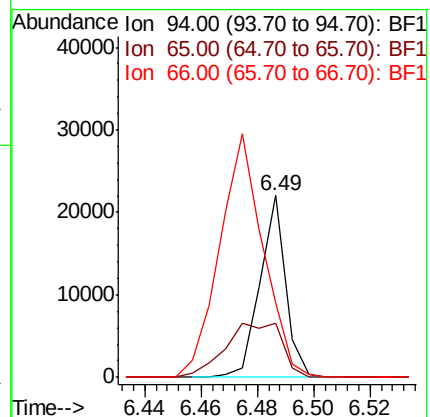
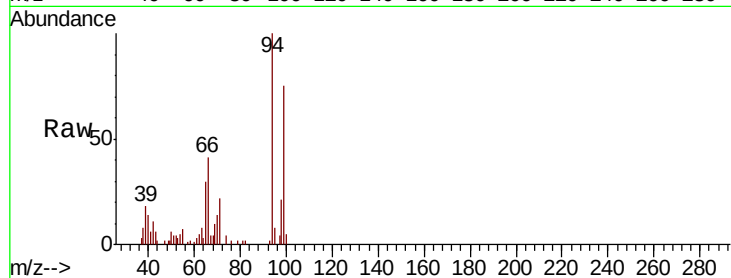
Tot Ion: 94 Resp: 13858

Ion Ratio Lower Upper

94 100

65 29.8 10.8 50.8

66 41.1 21.1 61.1



#19

n-Nitroso-di-n-propylamine

Concen: 12.364 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Tgt Ion: 70 Resp: 48386

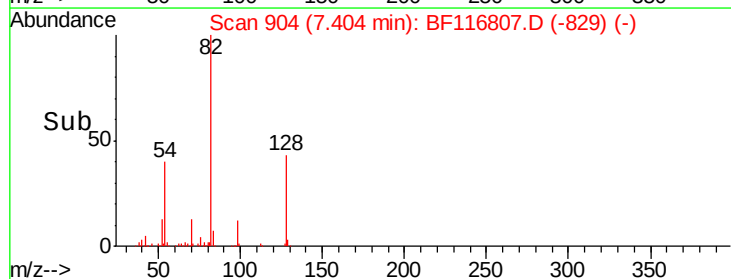
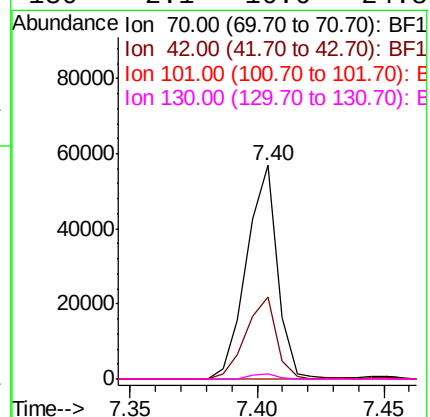
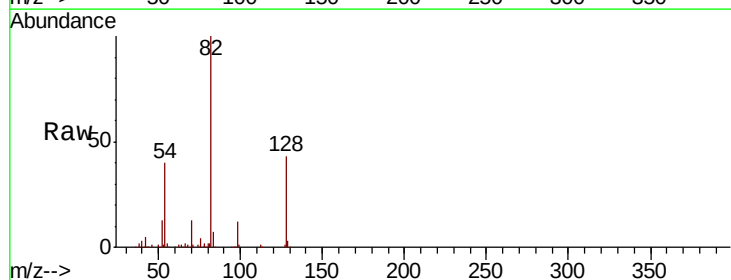
Ion Ratio Lower Upper

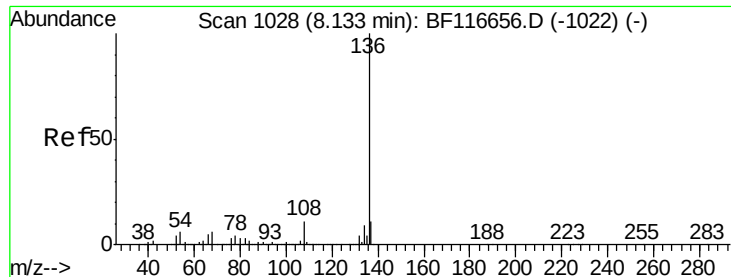
70 100

42 38.3 43.5 65.3#

101 0.0 7.8 11.6#

130 2.1 16.6 24.8#

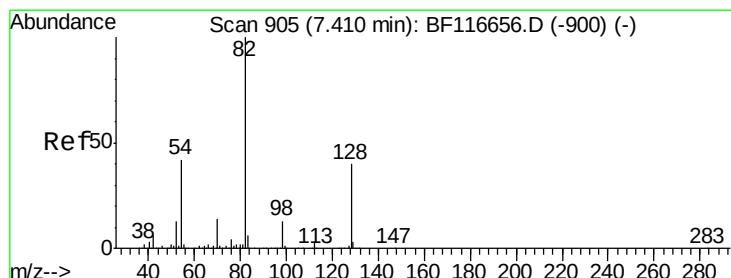
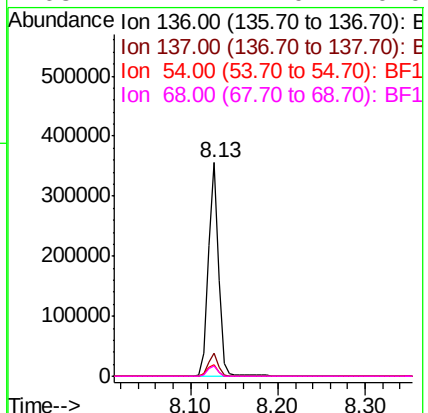
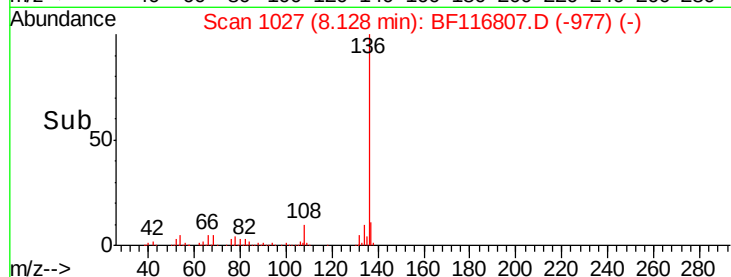
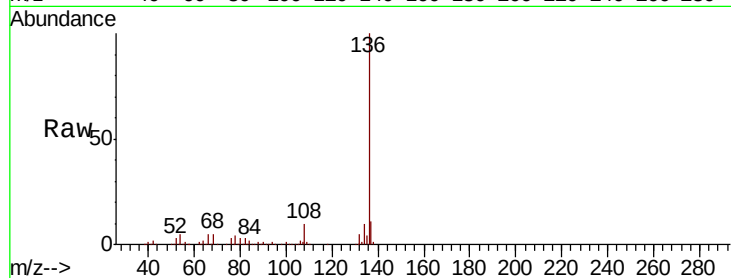




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

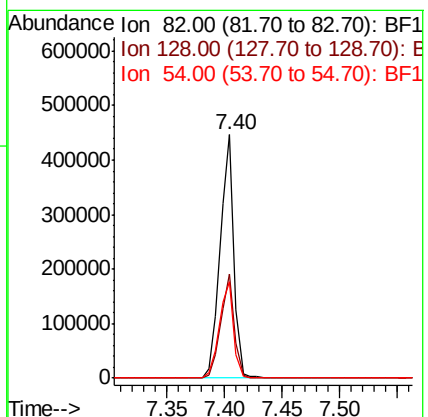
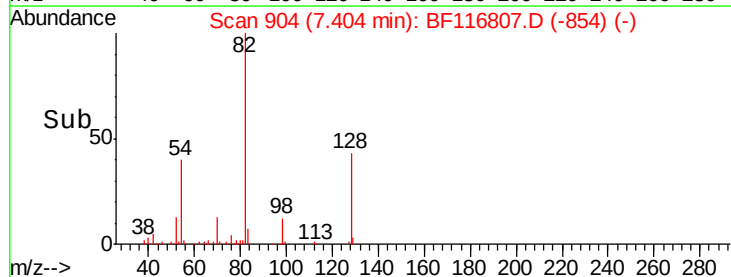
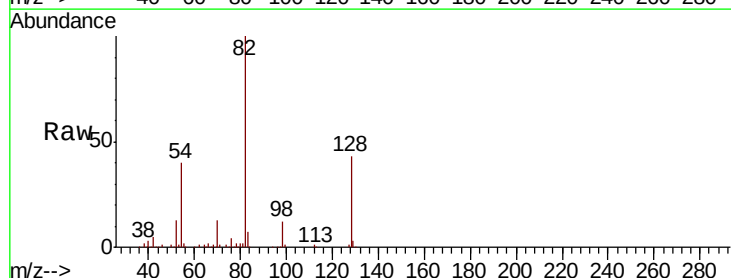
Instrument :
BNA_F
ClientSampled :

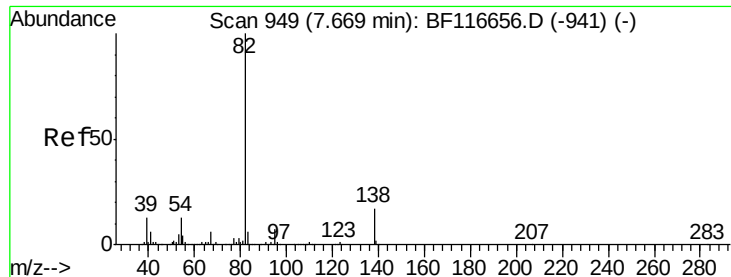
Tot Ion:136	Resp:	289794
Ion Ratio	Lower	Upper
136 100		
137 10.9	8.9	13.3
54 5.5	4.8	7.2
68 4.7	4.0	6.0



#23
Nitrobenzene-d5
Concen: 73.078 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt	Ion: 82	Resp:	370969
Ion	Ratio	Lower	Upper
82	100		
128	43.0	32.8	49.2
54	39.7	36.9	55.3





#25

Isophorone

Concen: 36.064 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Instrument :

BNA_F

ClientSampled :

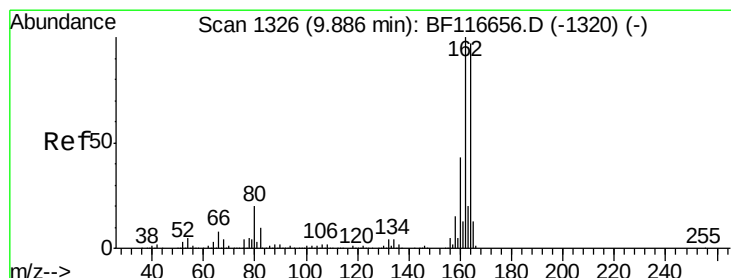
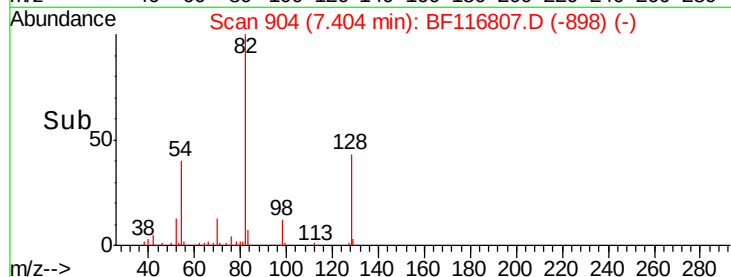
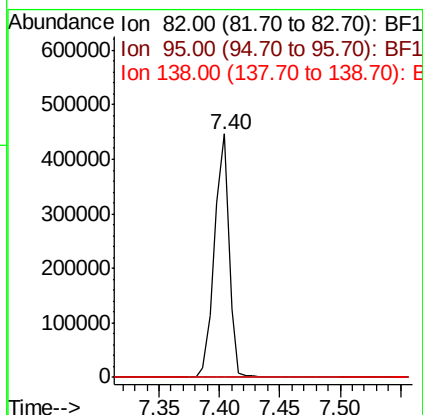
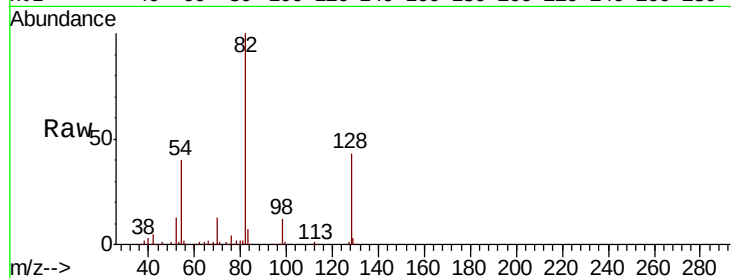
Tot Ion: 82 Resp: 370964

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.5 20.3#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

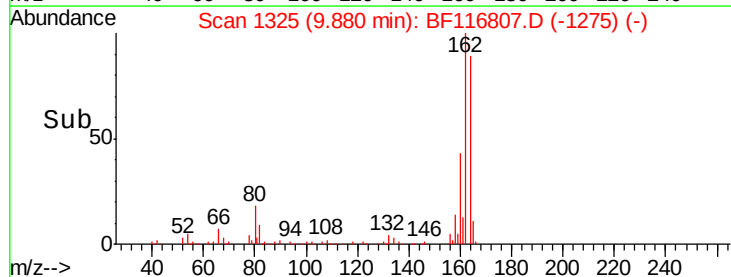
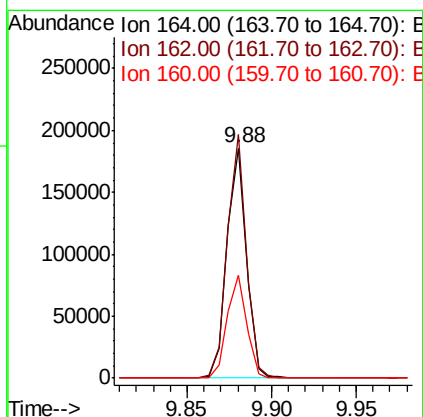
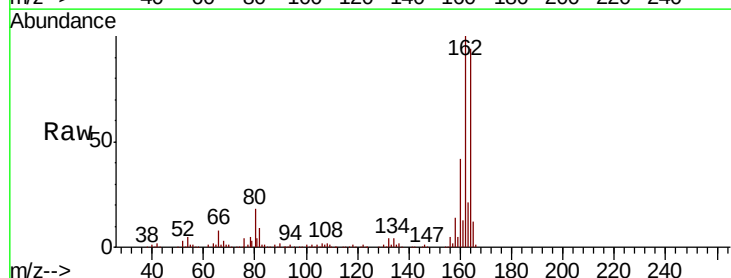
Tgt Ion:164 Resp: 149012

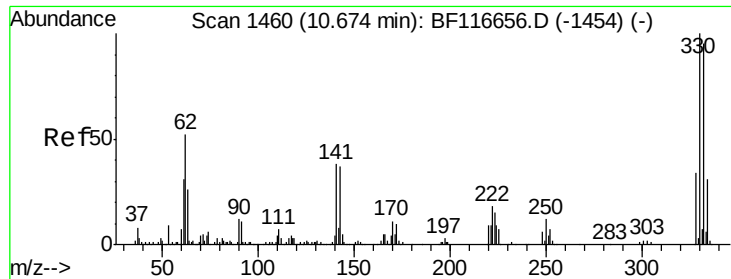
Ion Ratio Lower Upper

164 100

162 105.9 81.4 122.0

160 44.8 35.4 53.2

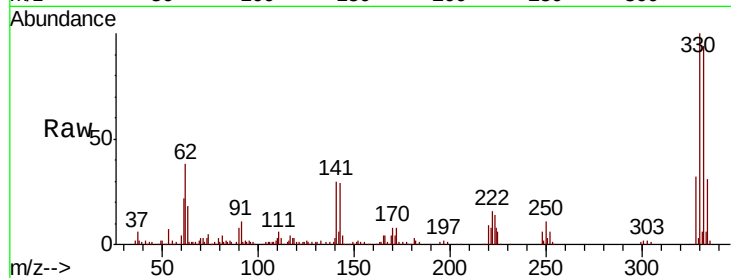




#42
 2,4,6-Tribromophenol
 Concen: 124.409 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.5	76.9	115.3
141	42.8	31.4	47.2

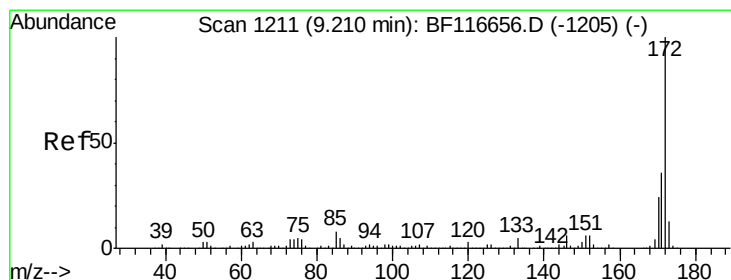
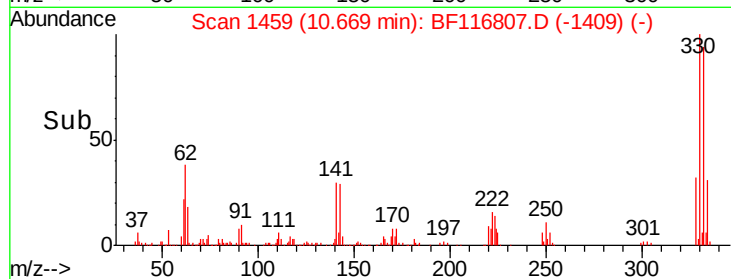
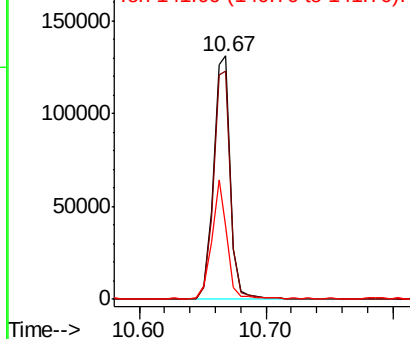


Abundance

Ion 329.80 (329.50 to 330.50): E

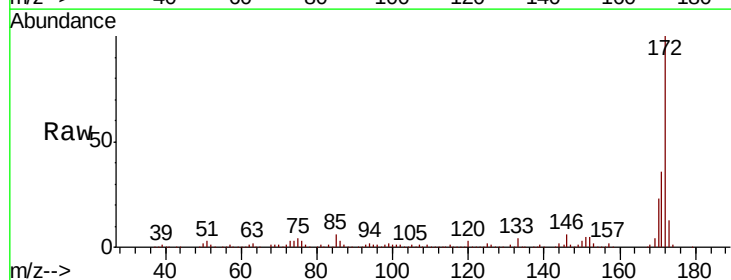
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 65.654 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	27.8	41.6
170	23.4	18.9	28.3

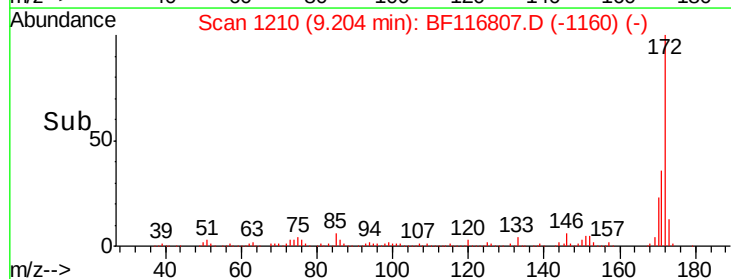
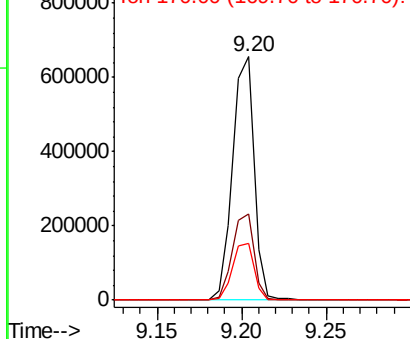


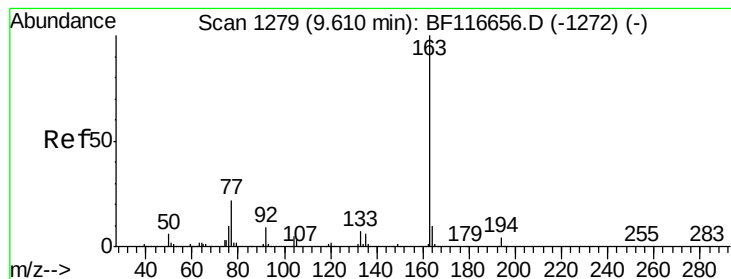
Abundance

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: 10.061 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Instrument :

BNA_F

ClientSampleId :

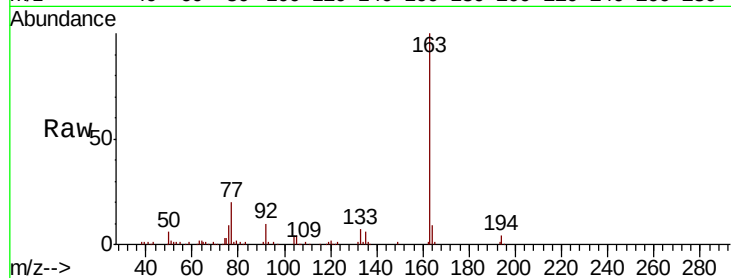
Tot Ion:163 Resp: 103509

Ion Ratio Lower Upper

163 100

194 4.0 2.8 4.2

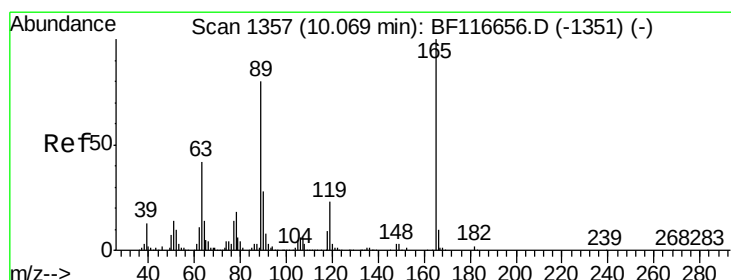
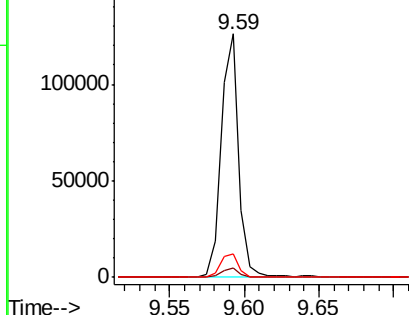
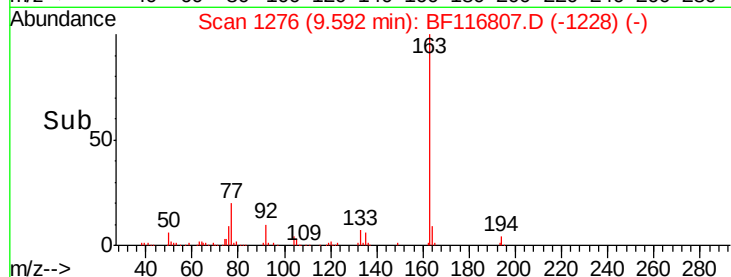
164 9.4 8.6 12.8



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: 8.267 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.19 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Tgt Ion:165 Resp: 19842

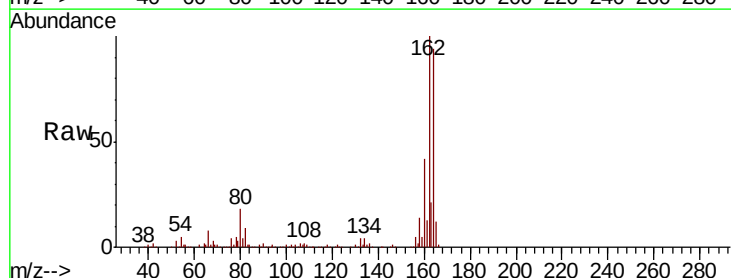
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 2.3 62.6 94.0#

182 0.0 2.1 3.1#

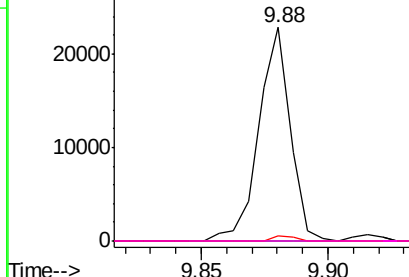
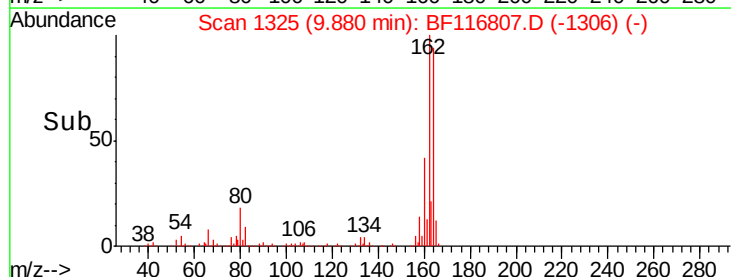


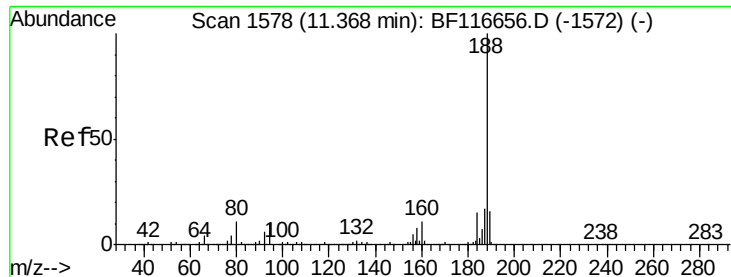
Abundance Ion 165.00 (164.70 to 165.70): E

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

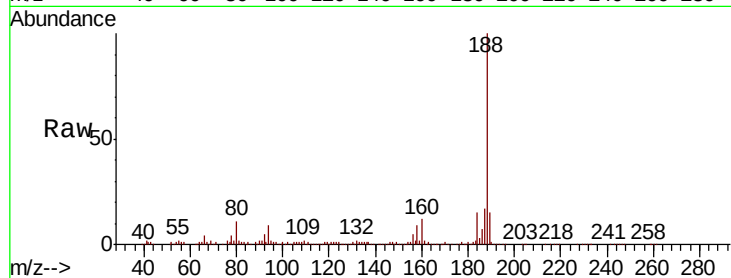




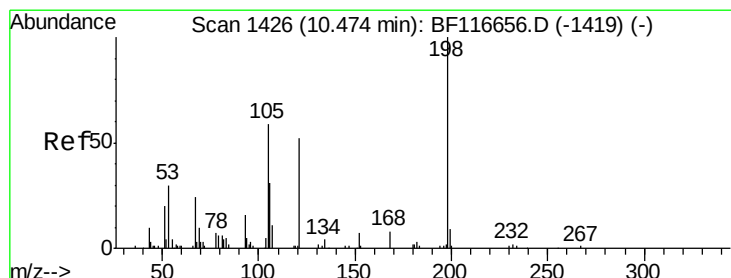
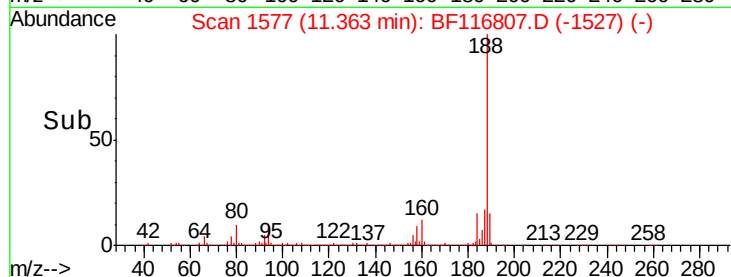
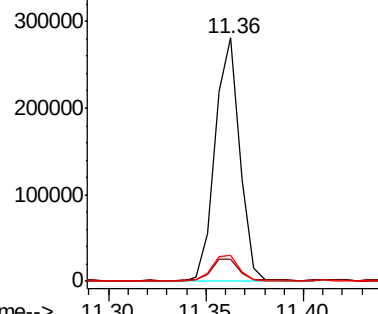
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 247544
Ion Ratio Lower Upper
188 100
94 9.4 7.3 10.9
80 10.6 8.4 12.6

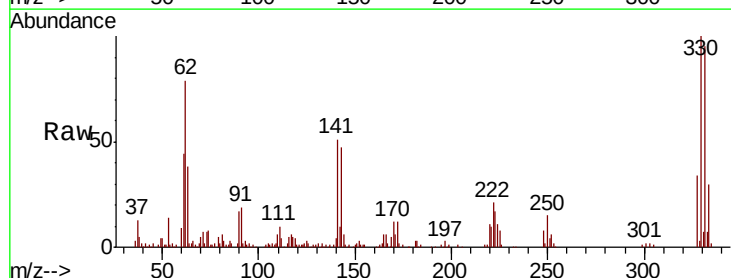


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

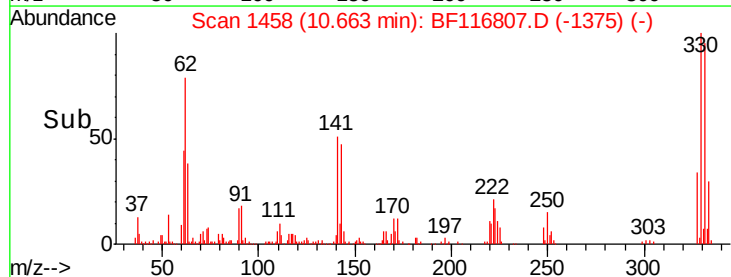
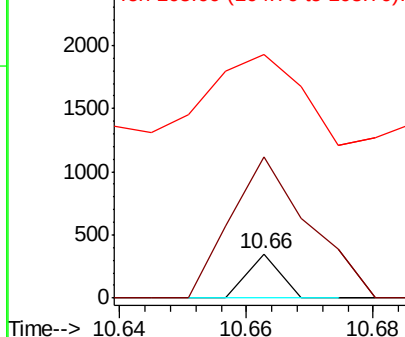


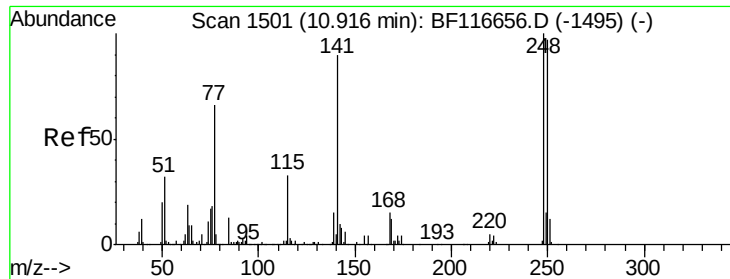
#65
4,6-Dinitro-2-methylphenol
Concen: 7.565 ng
RT: 10.66 min Scan# 1458
Delta R.T. 0.19 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt Ion:198 Resp: 123
Ion Ratio Lower Upper
198 100
51 320.4 18.4 58.4#
105 553.7 22.9 62.9#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

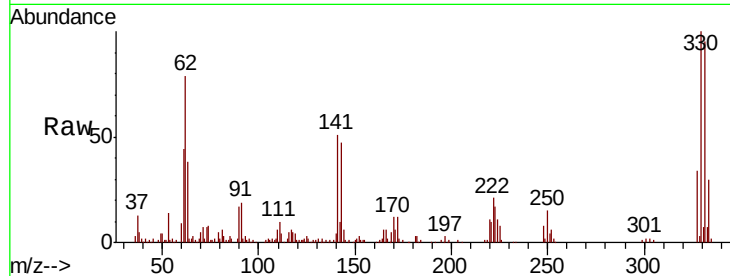




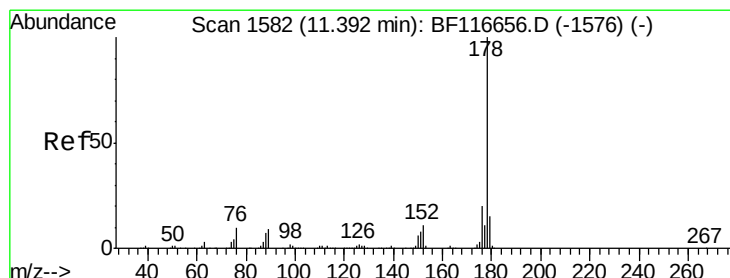
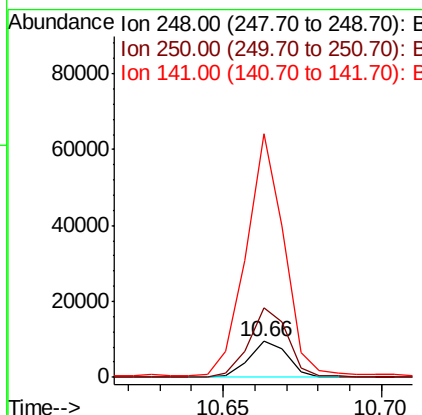
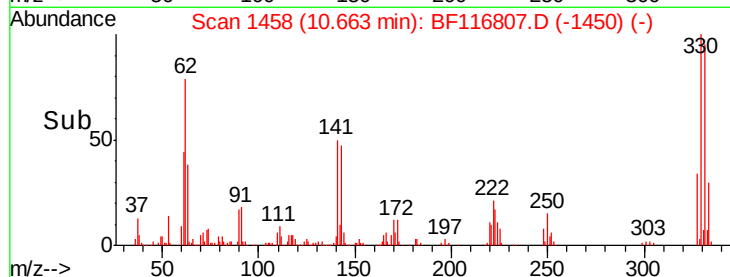
#67
 4-Bromophenyl-phenylether
 Concen: 3.247 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.25 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 8166
 Ion Ratio Lower Upper
 248 100
 250 193.3 77.8 116.8#
 141 674.3 75.9 113.9#

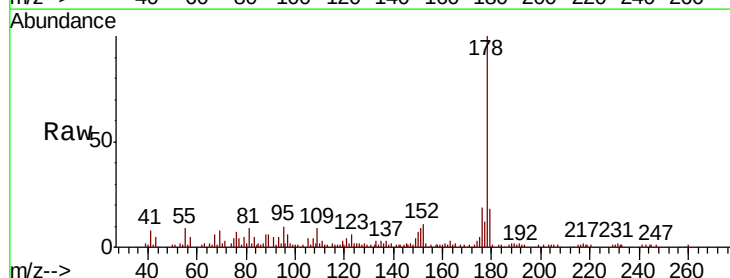


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

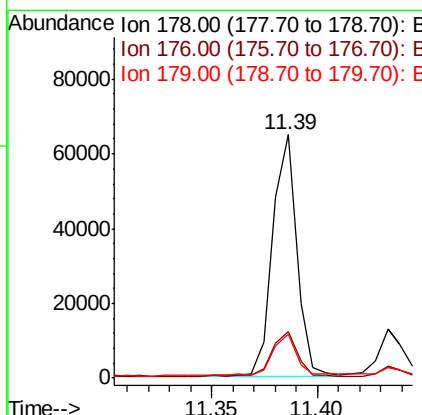
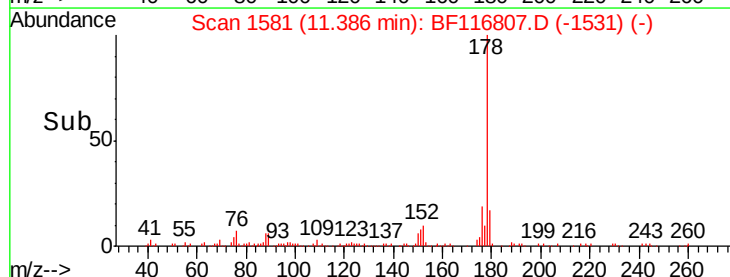


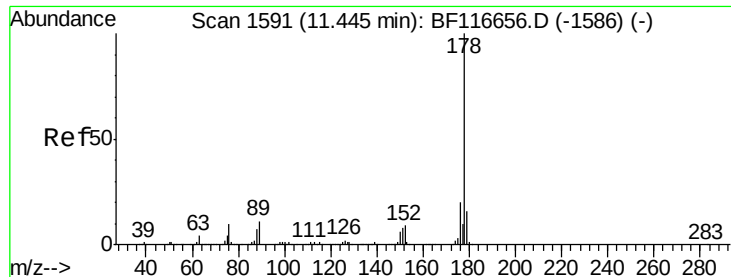
#71
 Phenanthrene
 Concen: 3.775 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

Tgt Ion:178 Resp: 52022
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.0
 179 17.9 12.2 18.2



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





#72

Anthracene

Concen: 3.750 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.06 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

Instrument :

BNA_F

ClientSampleId :

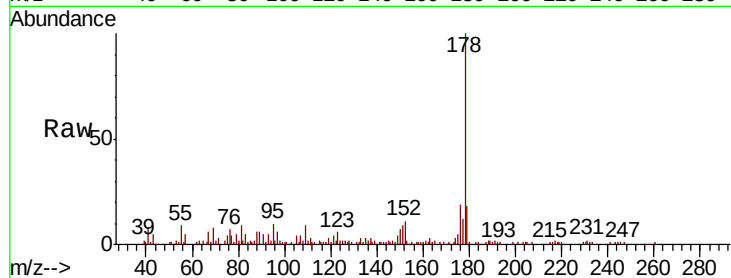
Tot Ion:178 Resp: 52022

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

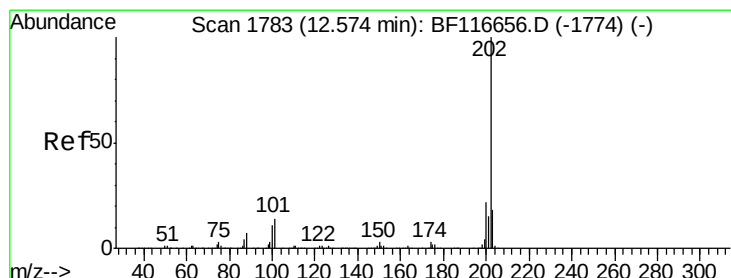
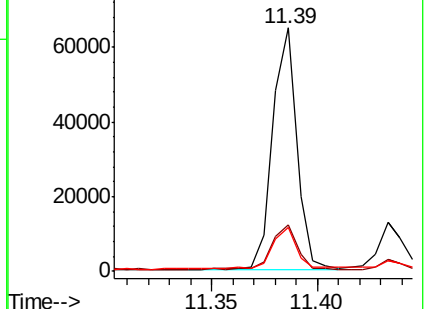
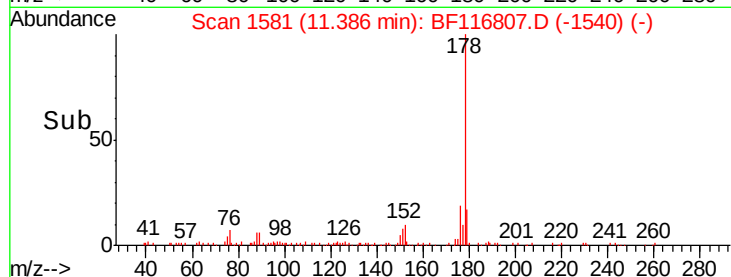
179 17.9 12.5 18.7



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



#75

Fluoranthene

Concen: 9.131 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BF116807.D

Acq: 4 Sep 2019 11:30

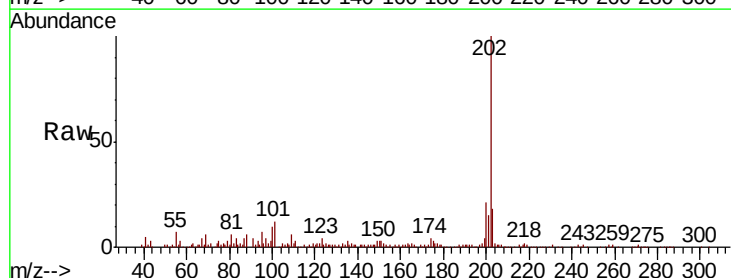
Tgt Ion:202 Resp: 123660

Ion Ratio Lower Upper

202 100

101 12.1 0.0 31.3

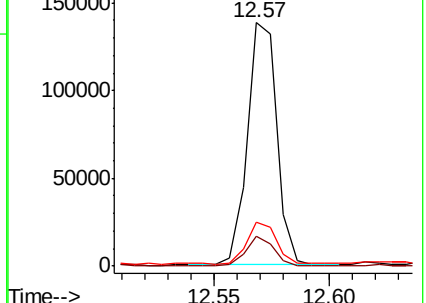
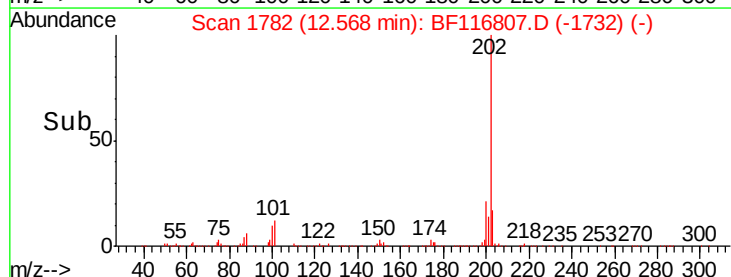
203 17.8 0.0 37.6

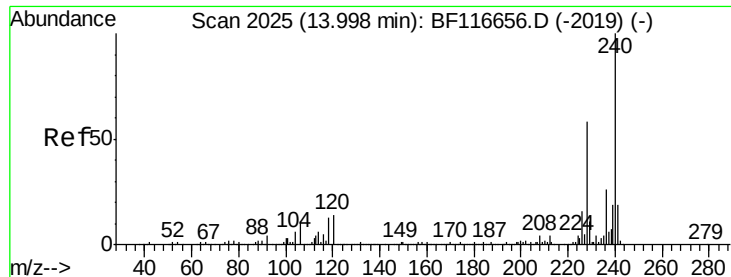


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

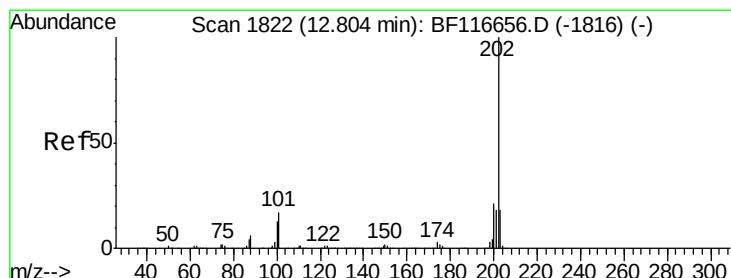
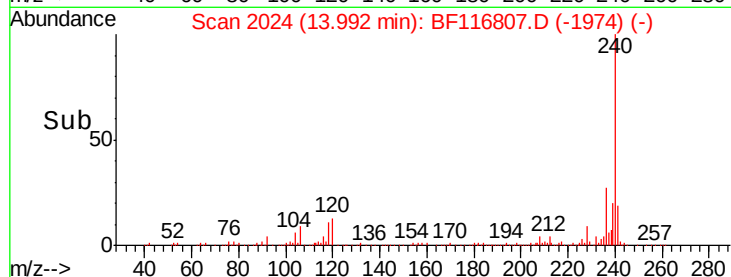
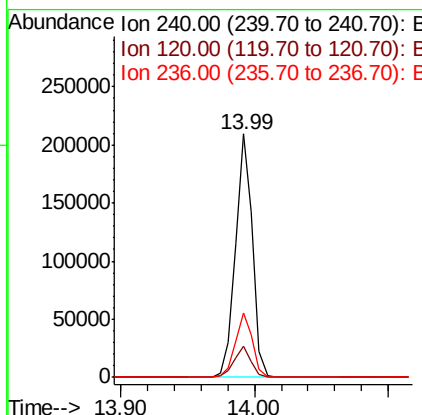
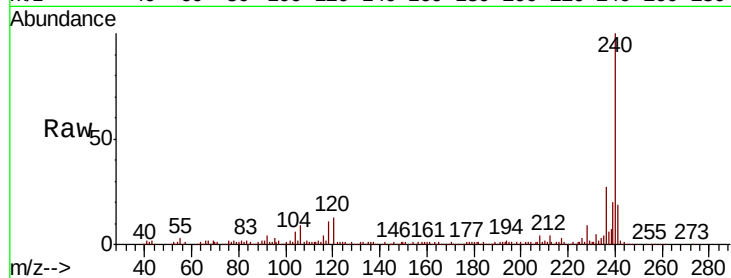




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

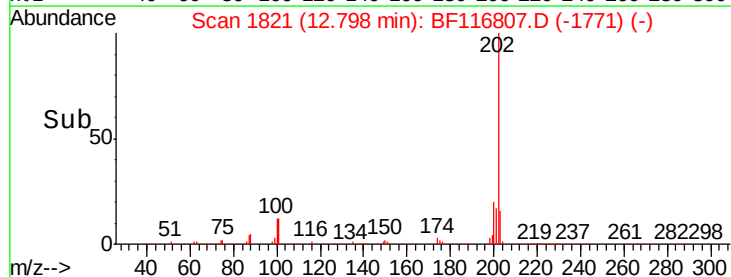
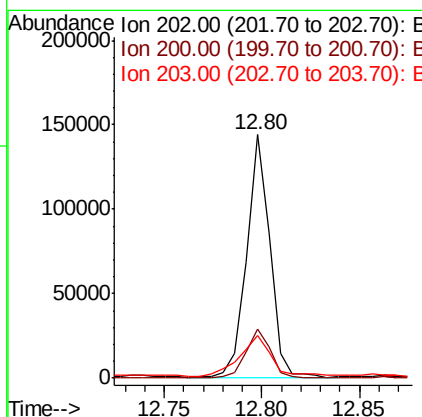
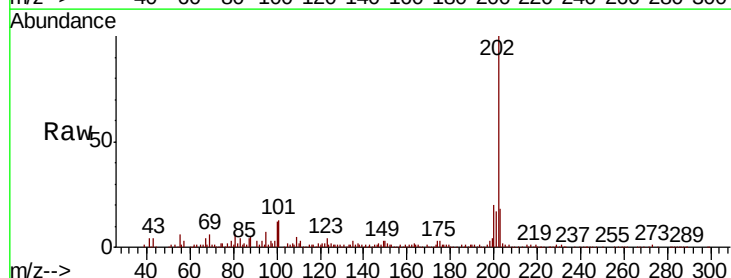
Instrument :
BNA_F
ClientSampleId :

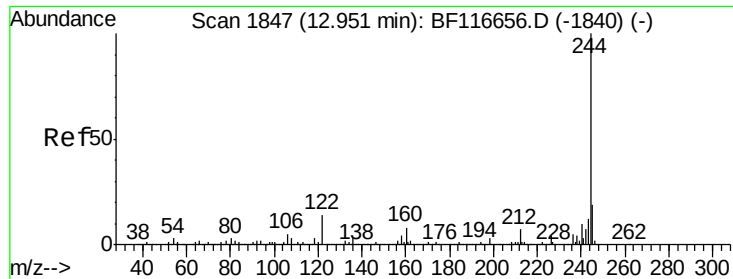
Tot Ion:240 Resp: 187414
Ion Ratio Lower Upper
240 100
120 13.0 9.1 13.7
236 26.6 21.1 31.7



#78
Pyrene
Concen: 7.057 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt Ion:202 Resp: 117568
Ion Ratio Lower Upper
202 100
200 20.0 16.5 24.7
203 17.5 13.7 20.5

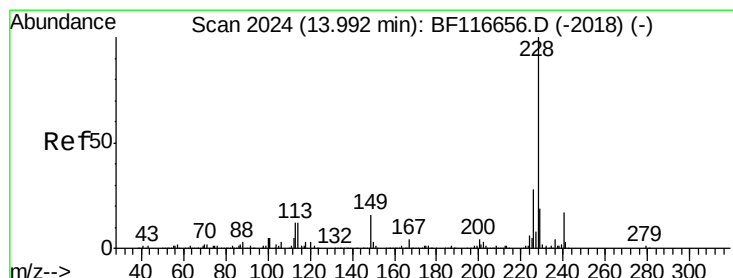
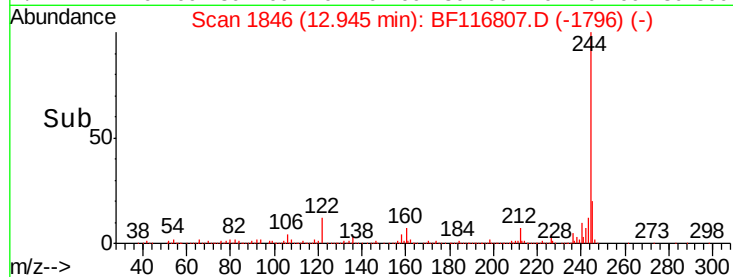
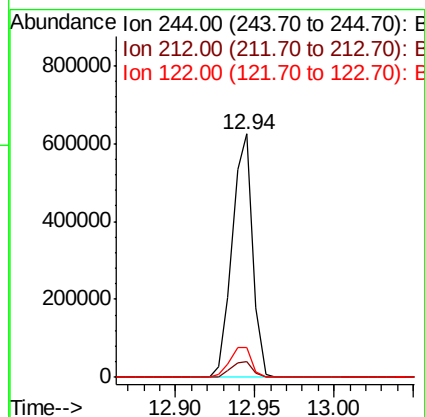
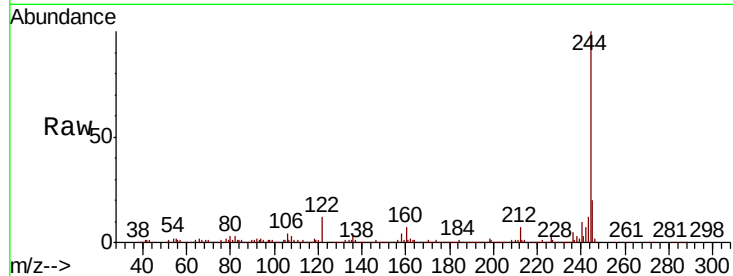




#79
 Terphenyl-d14
 Concen: 55.386 ng
 RT: 12.94 min Scan# 1846
 Delta R.T. -0.01 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

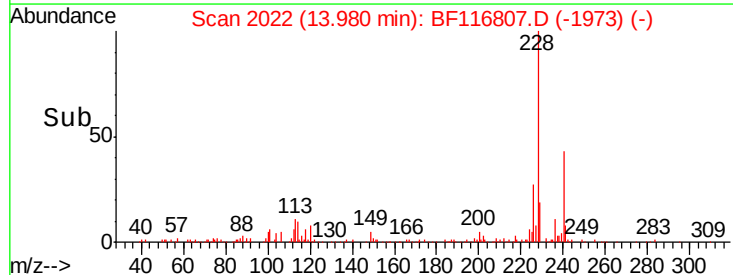
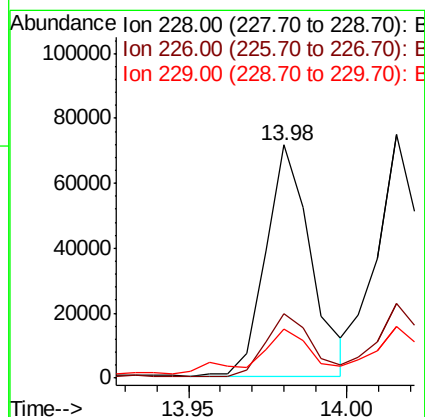
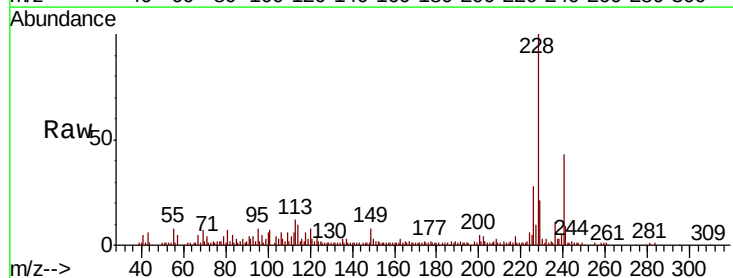
Instrument :
 BNA_F
 ClientSampleId :

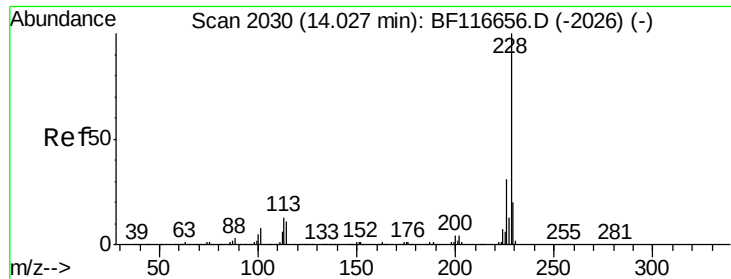
Tot Ion:244 Resp: 561101
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.1 9.1
 122 12.0 10.2 15.4



#81
 Benzo(a)anthracene
 Concen: 5.959 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

Tgt Ion:228 Resp: 70684
 Ion Ratio Lower Upper
 228 100
 226 27.8 22.0 33.0
 229 20.9 16.4 24.6

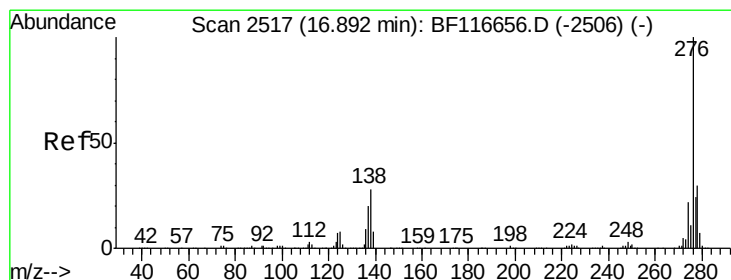
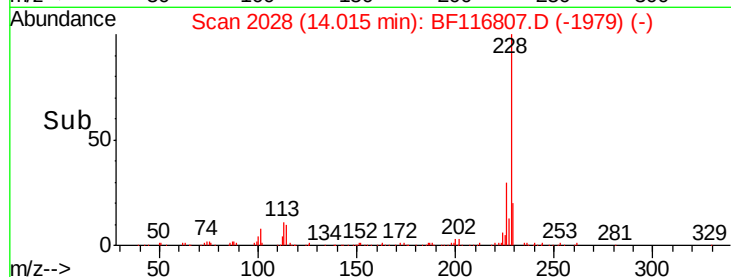
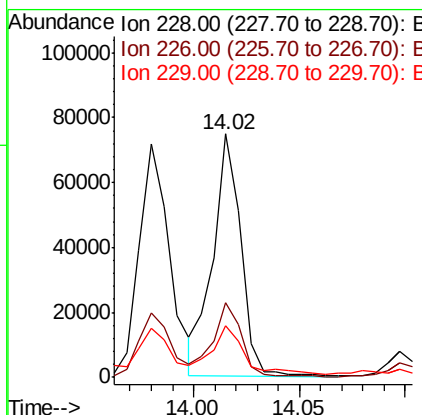
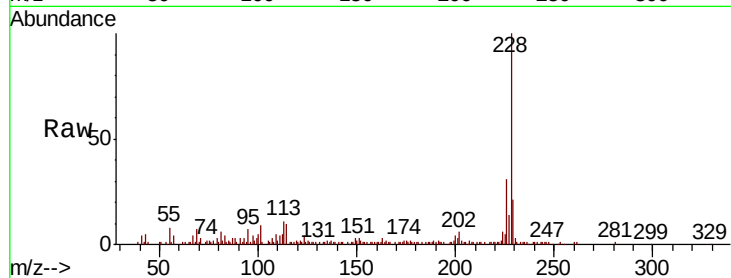




#83
Chrysene
Concen: 5.625 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

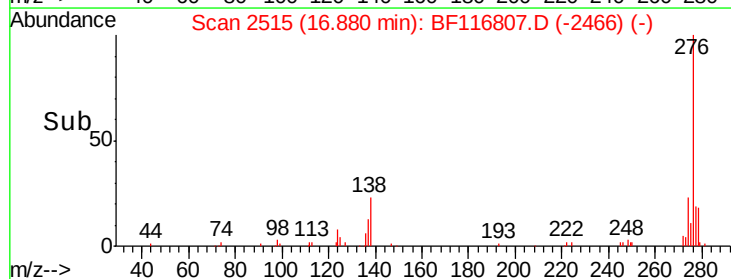
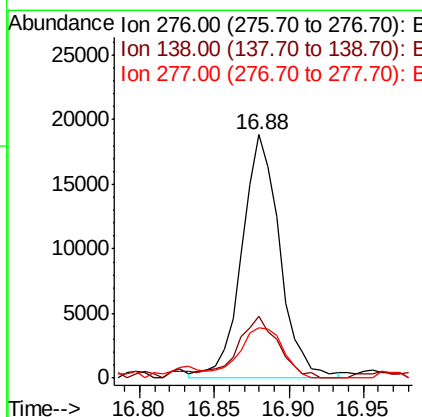
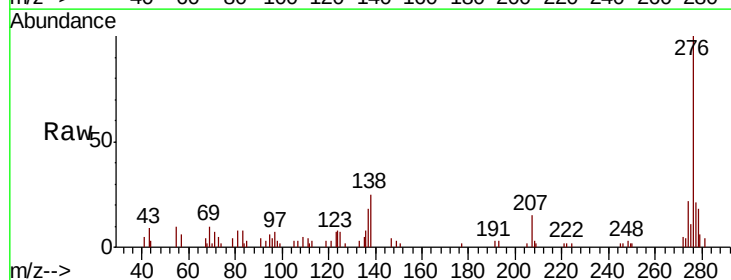
Instrument :
BNA_F
ClientSampleId :

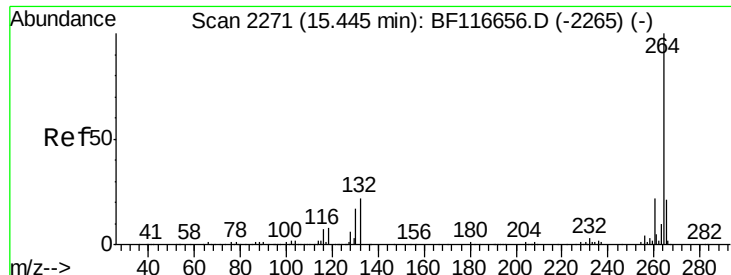
Tot Ion:228 Resp: 68739
Ion Ratio Lower Upper
228 100
226 30.7 24.0 36.0
229 21.1 15.4 23.0



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.382 ng
RT: 16.88 min Scan# 2515
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt Ion:276 Resp: 33196
Ion Ratio Lower Upper
276 100
138 27.5 19.4 29.2
277 24.0 20.5 30.7

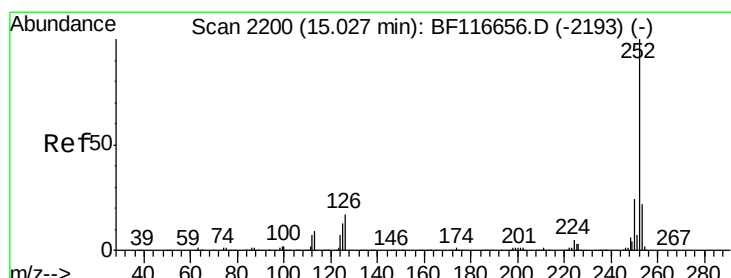
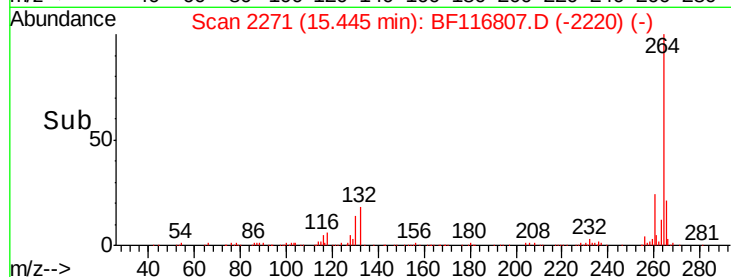
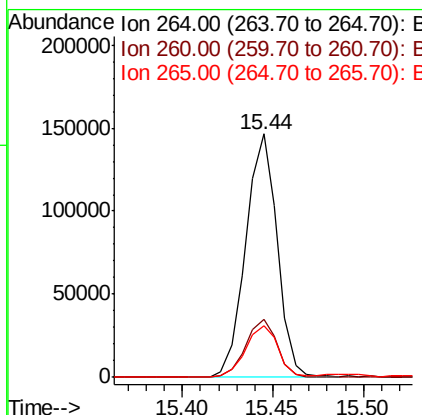
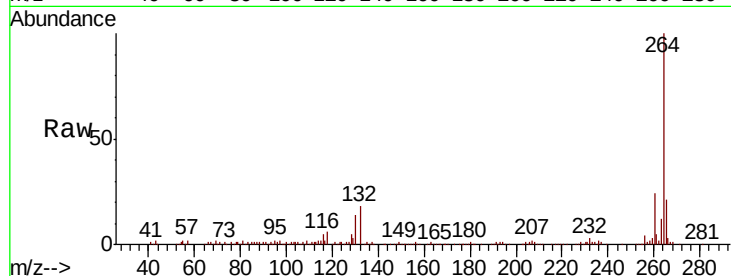




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.00 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

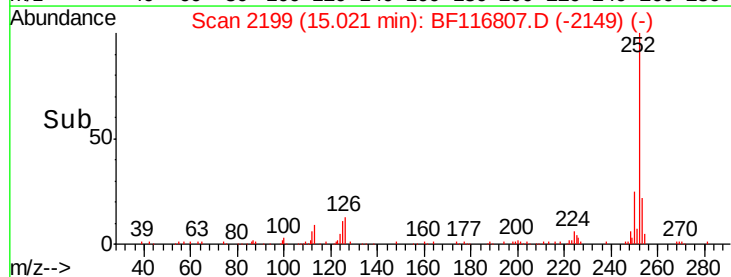
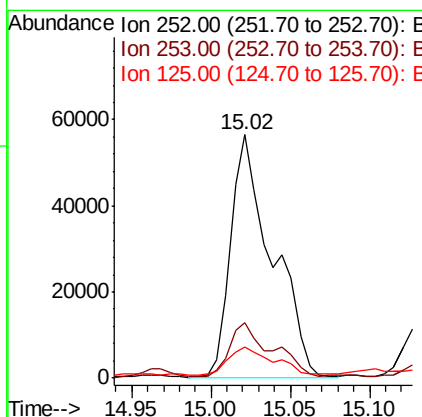
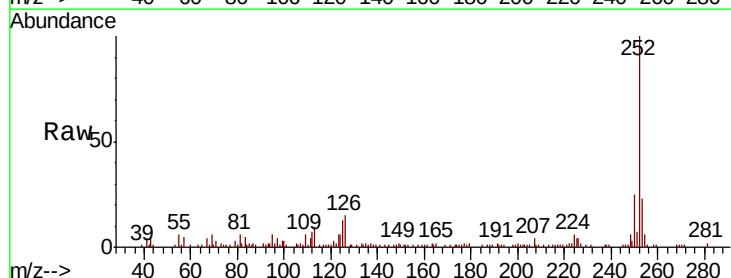
Instrument :
BNA_F
ClientSampleId :

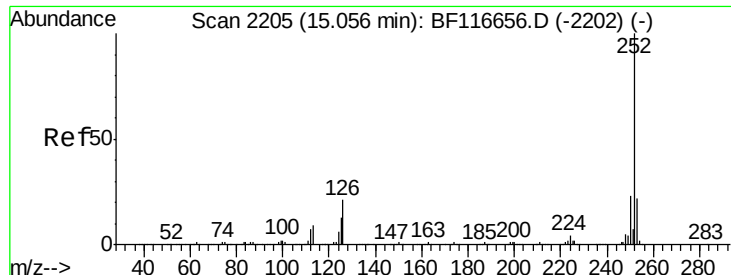
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.3	27.5
265	21.1	16.5	24.7



#88
Benzo(b)fluoranthene
Concen: 9.654 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	12.8	8.2	12.2#

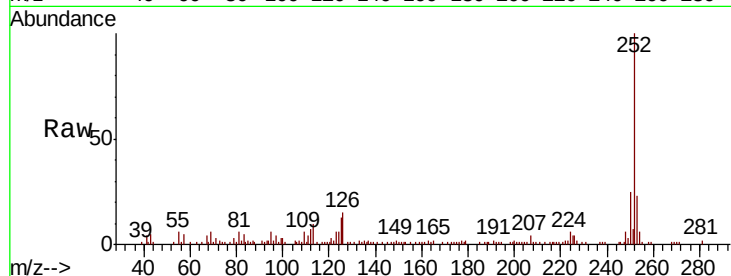




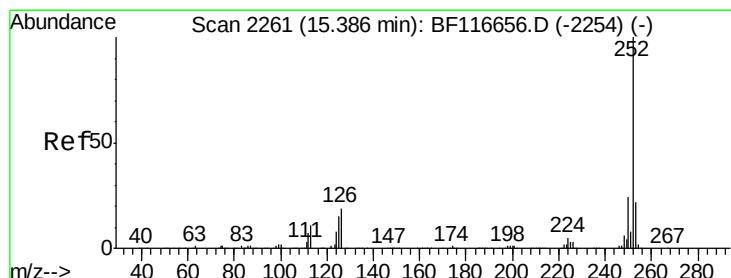
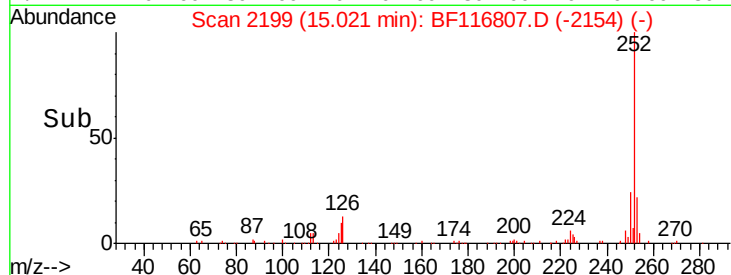
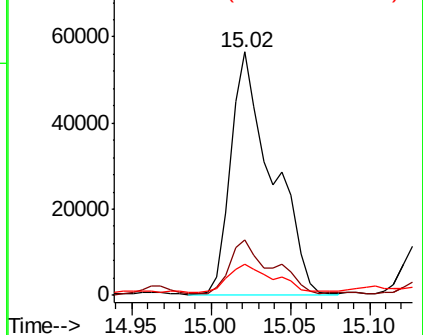
#89
Benzo(k)fluoranthene
Concen: 10.589 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.04 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	12.8	8.6	13.0

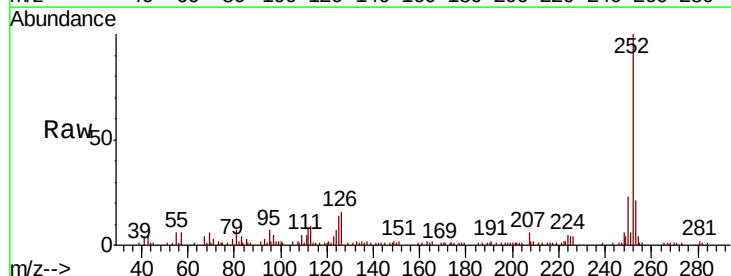


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

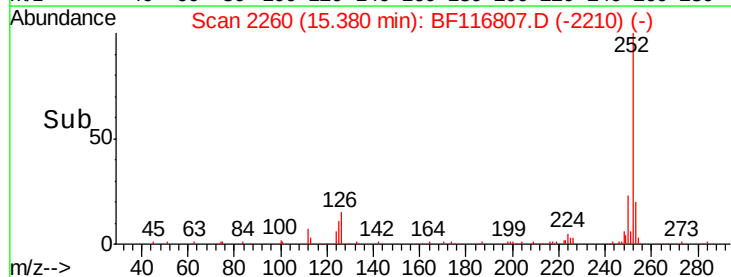
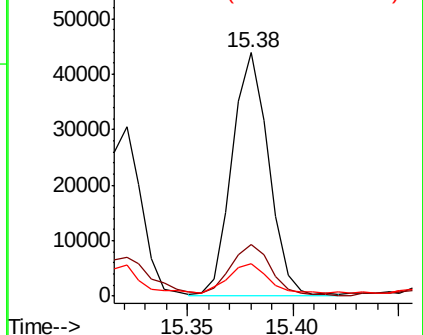


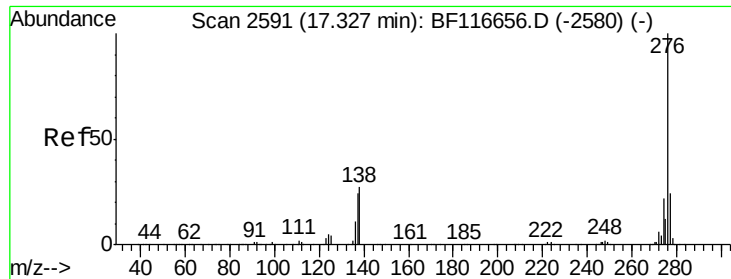
#90
Benzo(a)pyrene
Concen: 5.689 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF116807.D
Acq: 4 Sep 2019 11:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.1	27.1
125	13.6	9.8	14.8



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

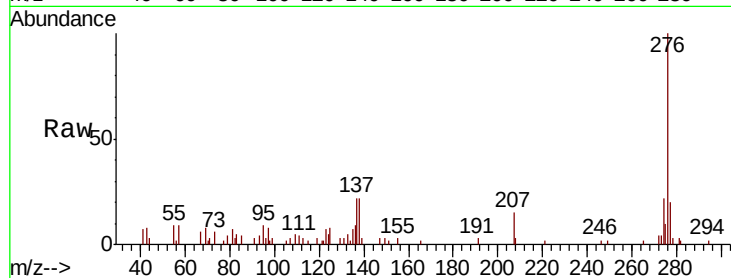




#92
 Benzo(a,h,i)perylene
 Concen: 3.692 ng
 RT: 17.32 min Scan# 2589
 Delta R.T. -0.01 min
 Lab File: BF116807.D
 Acq: 4 Sep 2019 11:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	20.0	18.5	27.7
138	22.0	16.2	24.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

