

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032520\
 Data File : BF119526.D
 Acq On : 26 Mar 2020 4:21
 Operator : CG/JU
 Sample : L1994-06 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3A

Quant Time: Mar 26 07:01:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 18 15:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	282042	20.00	ng	-0.02
21) Naphthalene-d8	8.13	136	1058901	20.00	ng	-0.02
39) Acenaphthene-d10	9.89	164	538759	20.00	ng	-0.02
64) Phenanthrene-d10	11.37	188	971929	20.00	ng	-0.02
76) Chrysene-d12	14.02	240	551037	20.00	ng	-0.02
87) Perylene-d12	15.49	264	604131	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	197098	11.12	ng	-0.02
7) Phenol-d6	6.45	99	255878	11.31	ng	-0.02
23) Nitrobenzene-d5	7.40	82	151123	7.76	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	66179	11.91	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	328610	9.04	ng	-0.02
79) Terphenyl-d14	12.96	244	327779	11.65	ng	-0.02

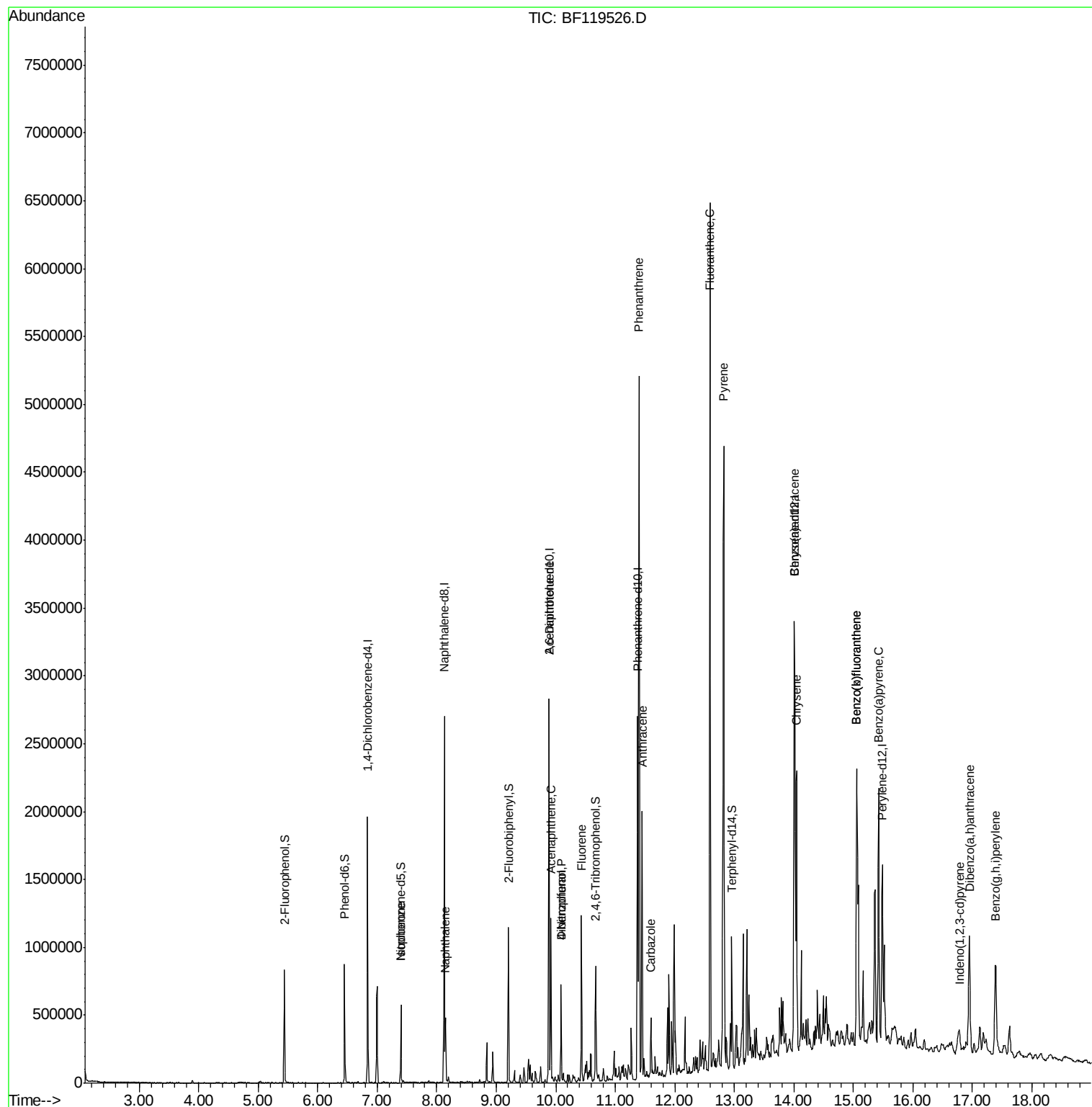
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.40	82	148890	3.767	ng	# 66
31) Naphthalene	8.15	128	193652	3.554	ng	97
51) 2,6-Dinitrotoluene	9.89	165	73391	8.947	ng	# 19
52) Acenaphthene	9.92	154	231187	6.871	ng	98
55) Dibenzofuran	10.09	168	251712	5.218	ng	99
56) 4-Nitrophenol	10.09	139	91354	11.183	ng	# 10
58) Fluorene	10.43	166	325771	9.131	ng	99
71) Phenanthrene	11.40	178	1918534	38.068	ng	99
72) Anthracene	11.45	178	747482	14.593	ng	97
73) Carbazole	11.60	167	159989	3.156	ng	99
75) Fluoranthene	12.59	202	2446747	44.860	ng	99
78) Pyrene	12.82	202	2004676	44.329	ng	100
81) Benzo(a)anthracene	14.00	228	1009013	28.159	ng	99
83) Chrysene	14.04	228	849832	22.980	ng	98
86) Indeno(1,2,3-cd)pyrene	16.79	276	110789	3.181	ng	96
88) Benzo(b)fluoranthene	15.06	252	1684038	41.730	ng	100
89) Benzo(k)fluoranthene	15.06	252	1684038	43.824	ng	100
90) Benzo(a)pyrene	15.42	252	957460	26.107	ng	98
91) Dibenzo(a,h)anthracene	16.96	278	148727	4.636	ng	94
92) Benzo(g,h,i)perylene	17.39	276	549562	17.053	ng	96

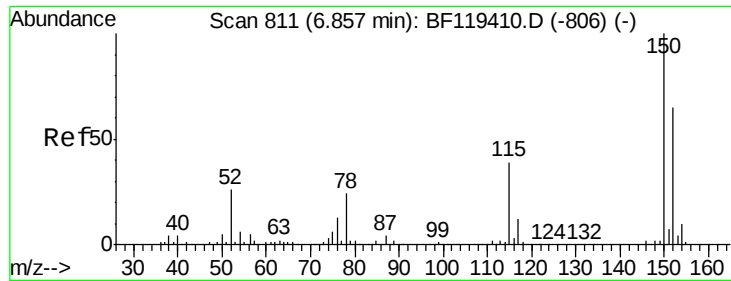
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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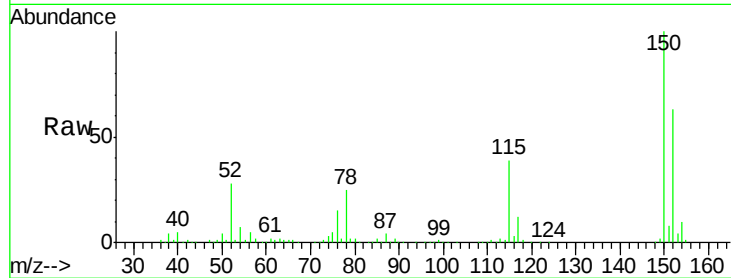


#1

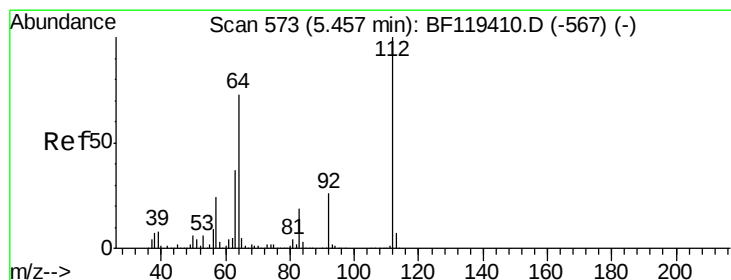
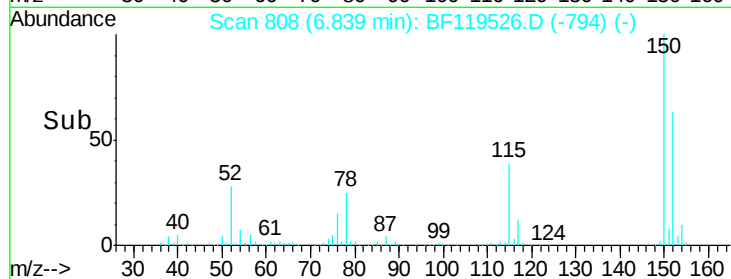
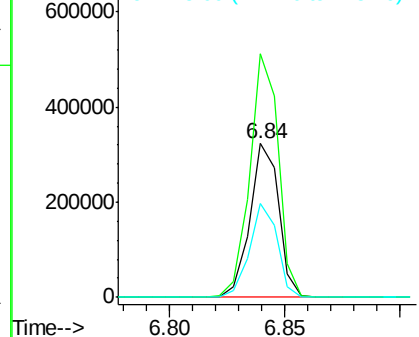
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.84 min Scan# 808
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Instrument :
 BNA_F
 ClientSampleId :
 TP-3A

Tgt Ion:152 Resp: 282042
 Ion Ratio Lower Upper
 152 100
 150 158.2 123.9 185.9
 115 61.1 47.8 71.6



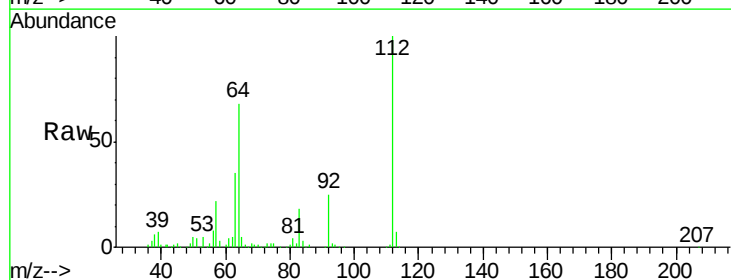
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



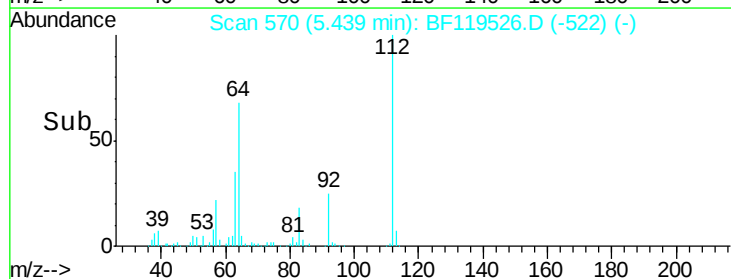
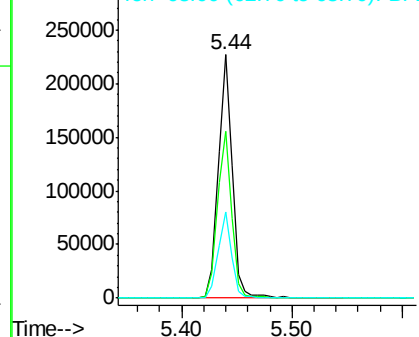
#5

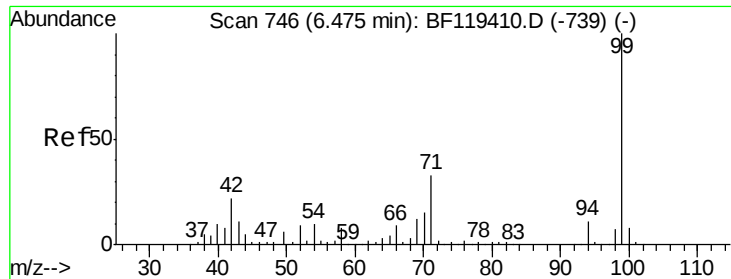
2-Fluorophenol
 Concen: 11.125 ng
 RT: 5.44 min Scan# 570
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Tgt Ion:112 Resp: 197098
 Ion Ratio Lower Upper
 112 100
 64 68.4 58.1 87.1
 63 35.4 29.7 44.5



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: 11.306 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampleId :

TP-3A

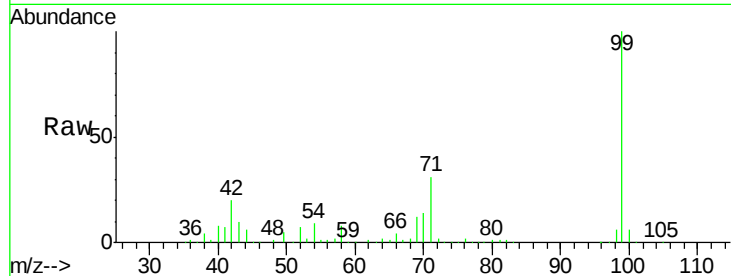
Tgt Ion: 99 Resp: 255878

Ion Ratio Lower Upper

99 100

42 20.3 17.8 26.6

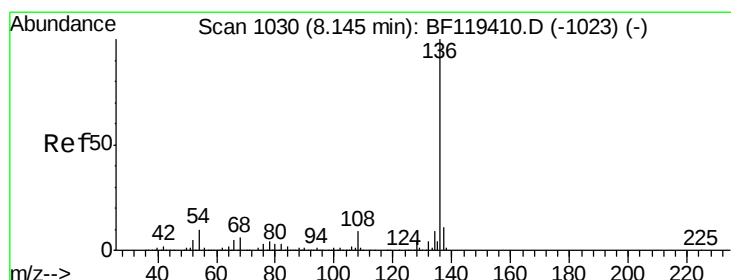
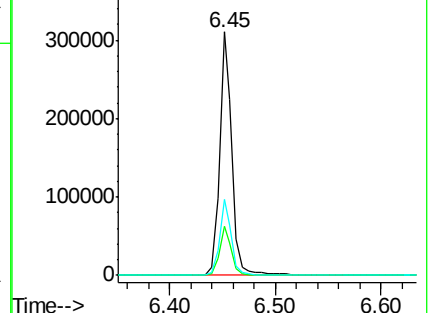
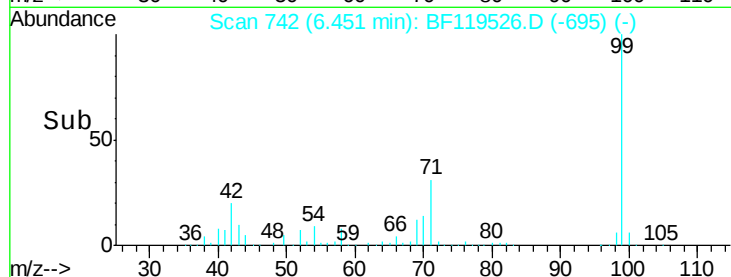
71 31.0 26.0 39.0



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: 8.13 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Tgt Ion: 136 Resp: 1058901

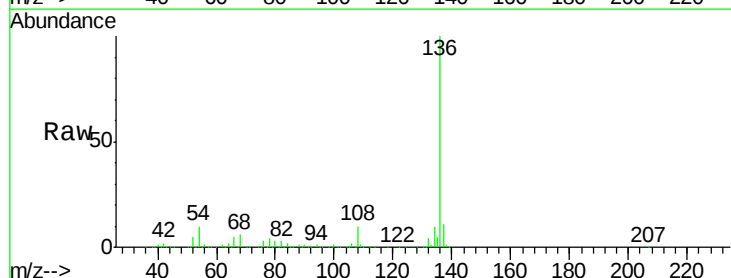
Ion Ratio Lower Upper

136 100

137 11.1 8.4 12.6

54 10.1 8.3 12.5

68 5.6 4.9 7.3

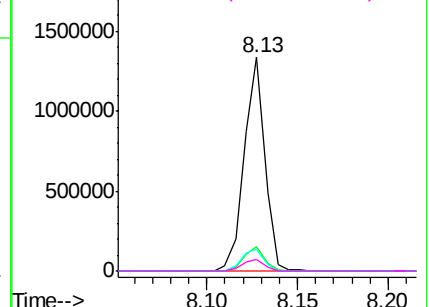
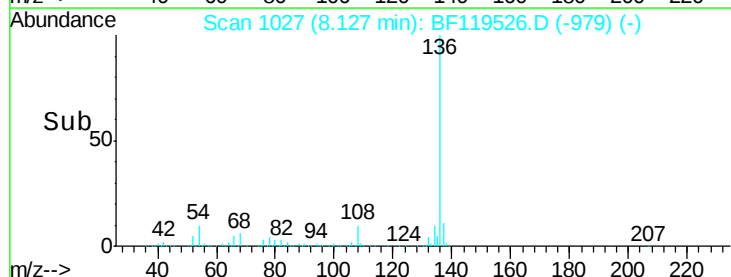


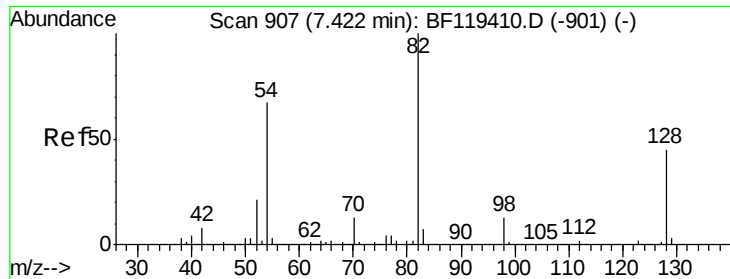
Abundance Ion 136.00 (135.70 to 136.70): E

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

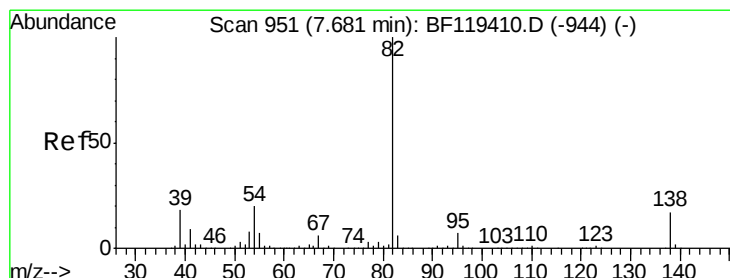
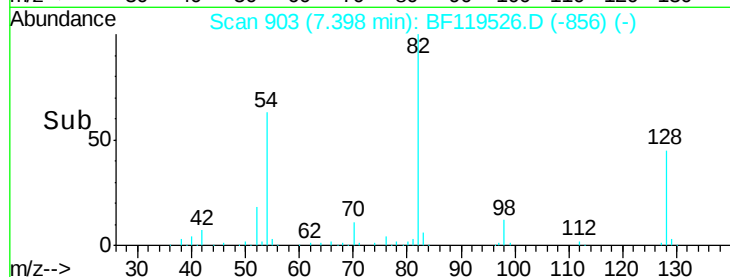
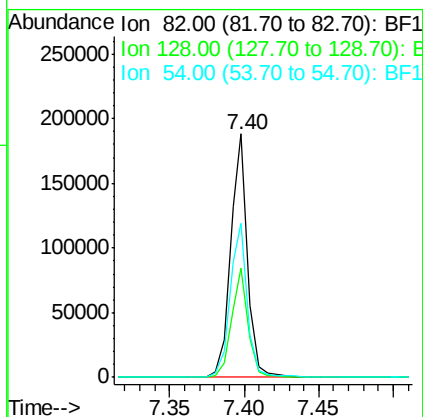
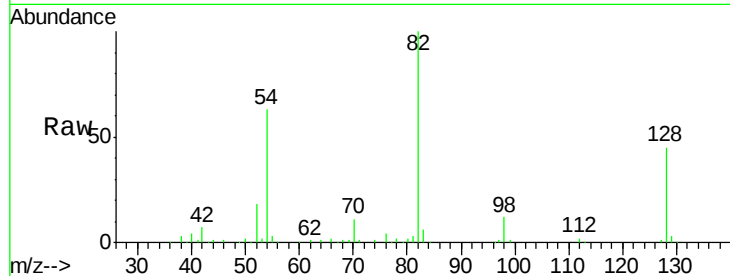




#23
Nitrobenzene-d5
Concen: 7.756 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

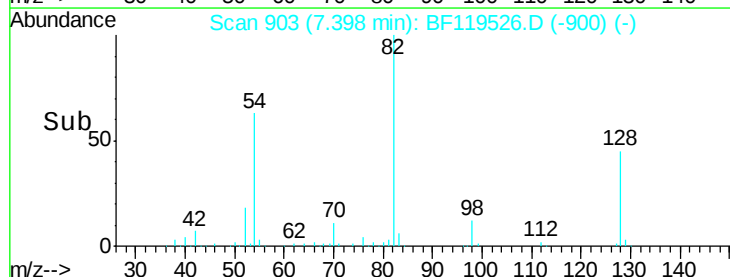
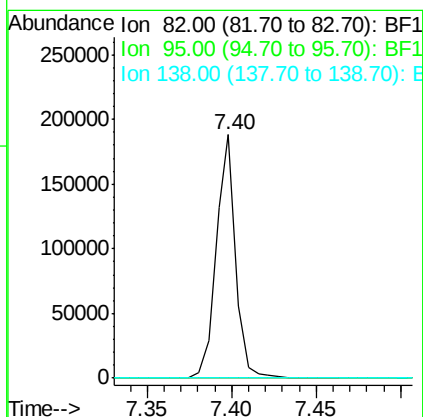
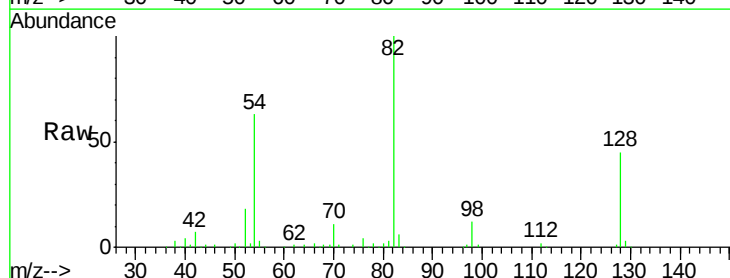
Instrument :
BNA_F
ClientSampleId :
TP-3A

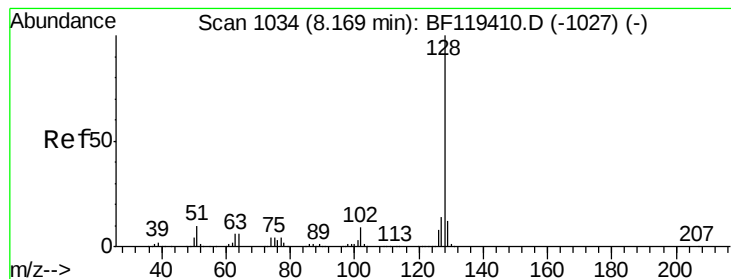
Tgt Ion: 82 Resp: 151123
Ion Ratio Lower Upper
82 100
128 44.7 35.8 53.8
54 63.3 53.4 80.0



#25
Isophorone
Concen: 3.767 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.28 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion: 82 Resp: 148890
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.2#
138 0.0 13.8 20.8#





#31

Naphthalene

Concen: 3.554 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampleId :

TP-3A

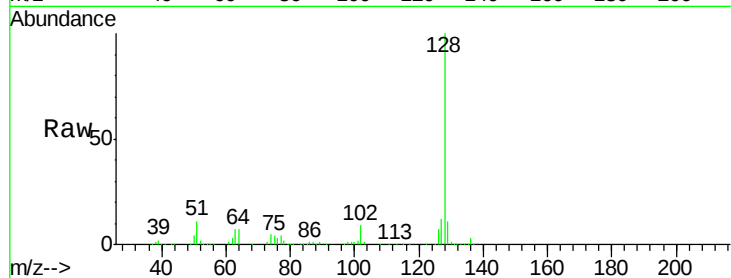
Tgt Ion:128 Resp: 193652

Ion Ratio Lower Upper

128 100

129 10.5 9.3 13.9

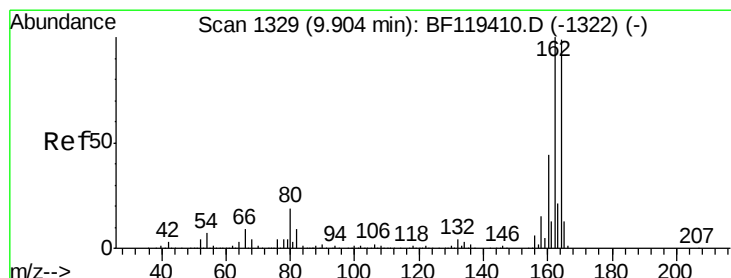
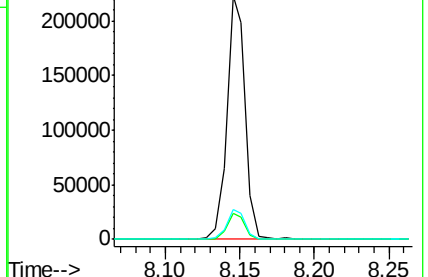
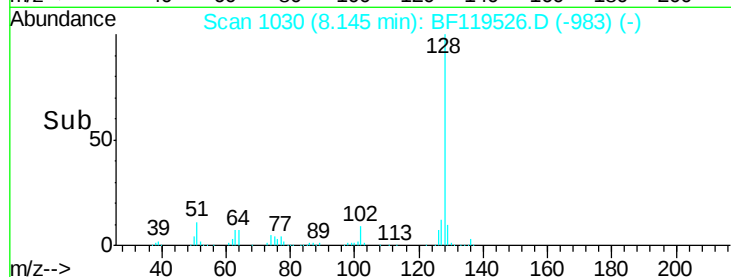
127 12.3 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

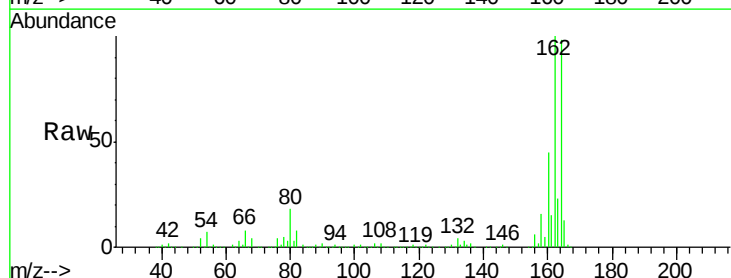
Tgt Ion:164 Resp: 538759

Ion Ratio Lower Upper

164 100

162 101.7 80.7 121.1

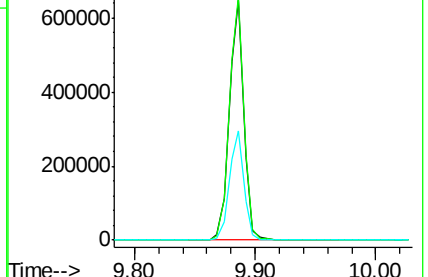
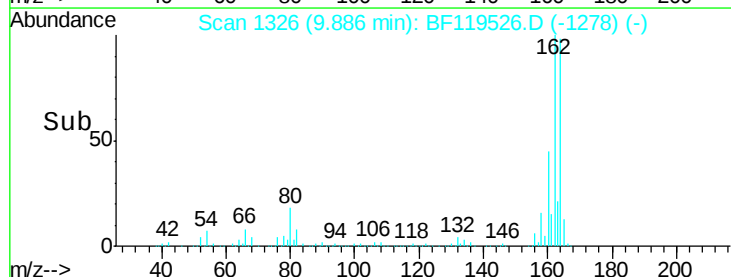
160 45.6 35.5 53.3

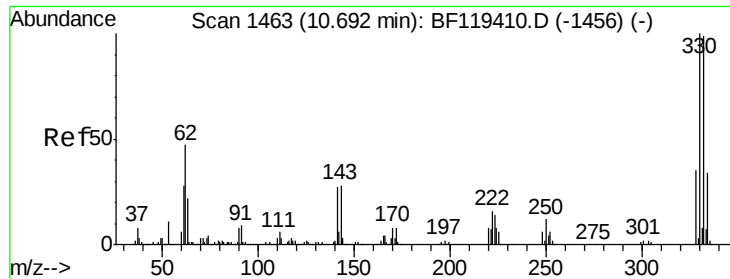


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 11.907 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

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ClientSampleId :

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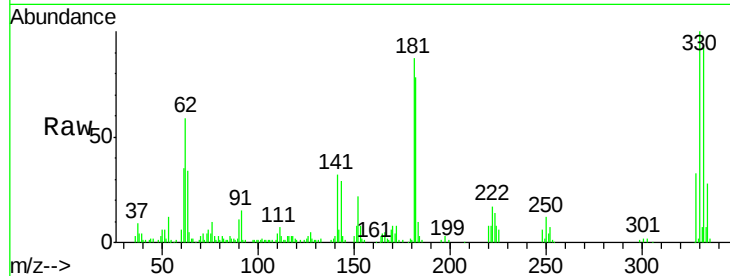
Tgt Ion:330 Resp: 66179

Ion Ratio Lower Upper

330 100

332 94.7 77.6 116.4

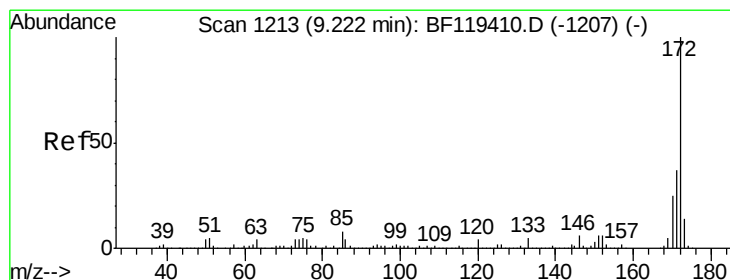
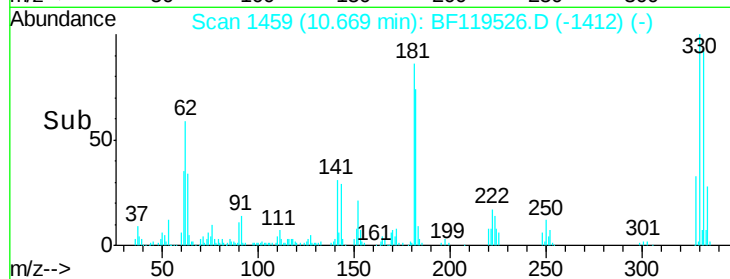
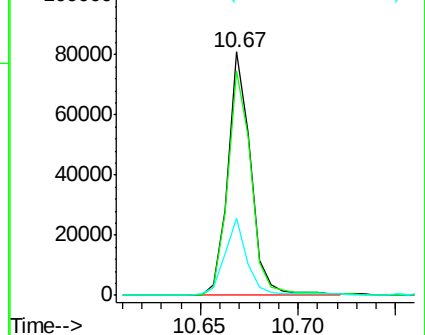
141 31.1 26.6 40.0



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: 9.036 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

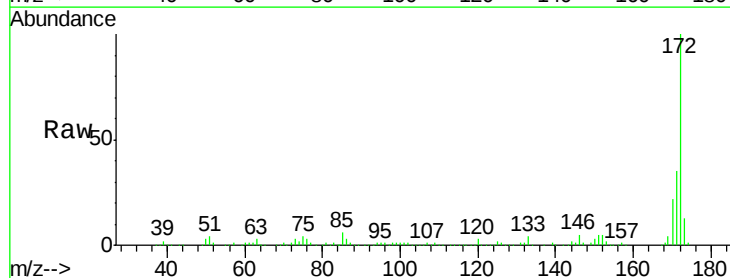
Tgt Ion:172 Resp: 328610

Ion Ratio Lower Upper

172 100

171 34.8 29.9 44.9

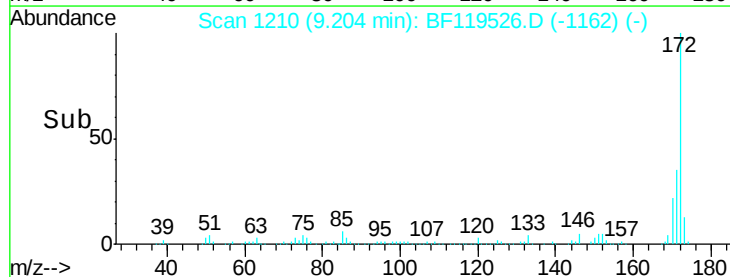
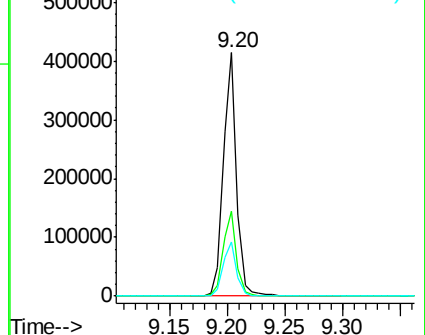
170 22.2 20.1 30.1

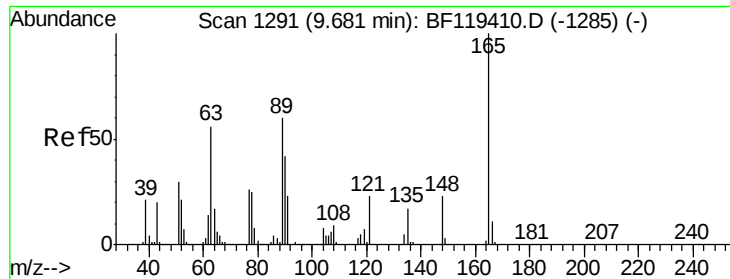


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

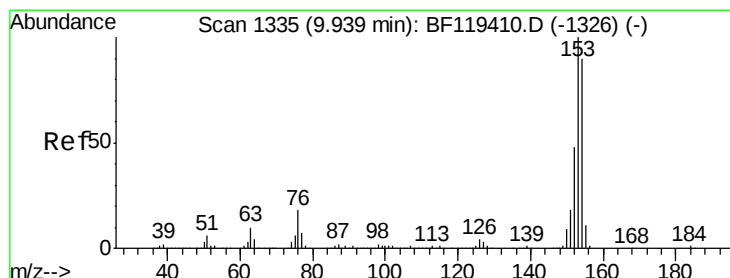
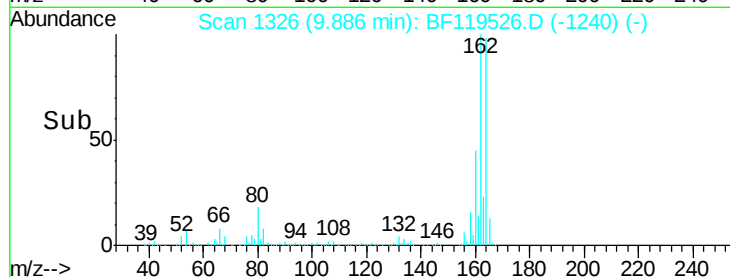
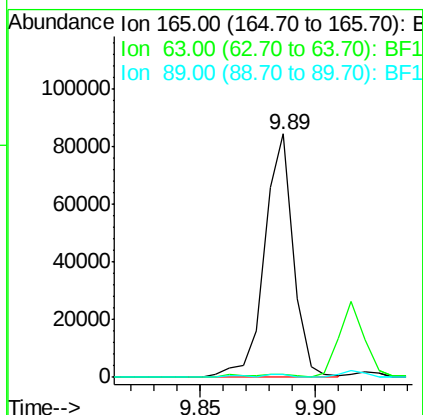
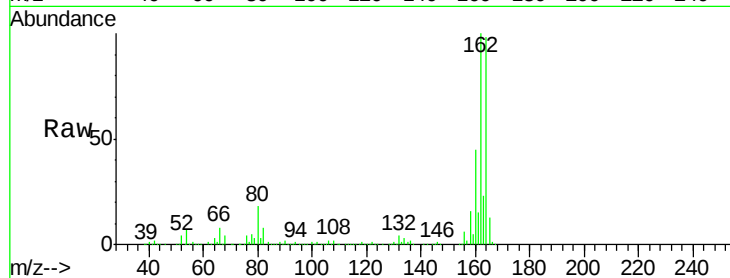




#51
 2,6-Dinitrotoluene
 Concen: 8.947 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.21 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

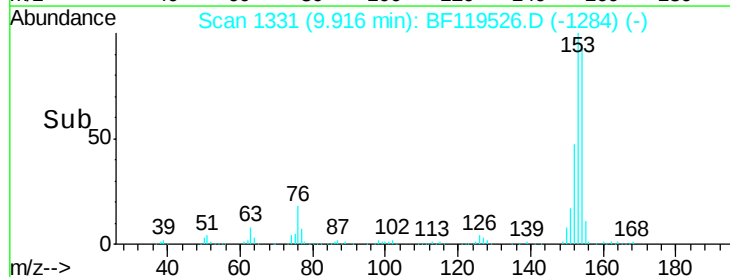
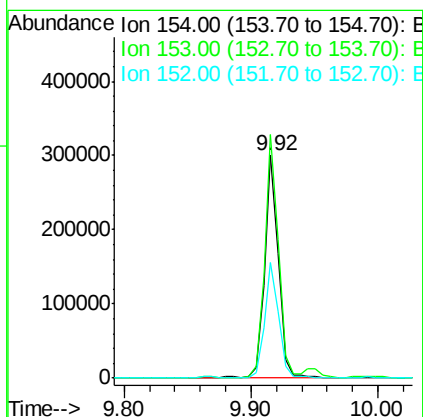
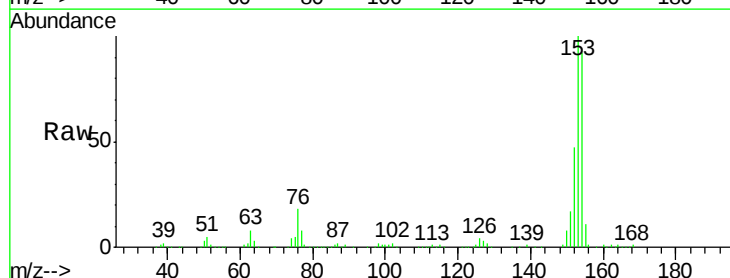
Instrument :
 BNA_F
 ClientSampled :
 TP-3A

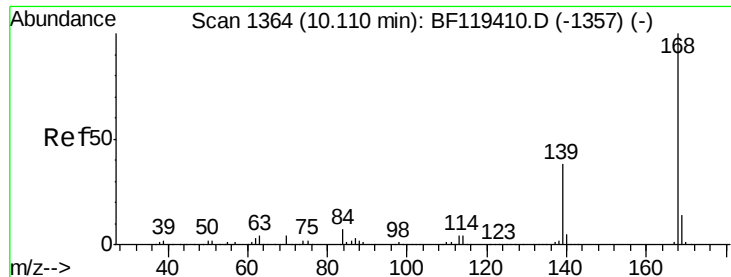
Tgt Ion:165 Resp: 73391
 Ion Ratio Lower Upper
 165 100
 63 1.2 57.3 85.9#
 89 1.5 47.8 71.8#



#52
 Acenaphthene
 Concen: 6.871 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Tgt Ion:154 Resp: 231187
 Ion Ratio Lower Upper
 154 100
 153 109.3 89.0 133.6
 152 51.9 43.1 64.7

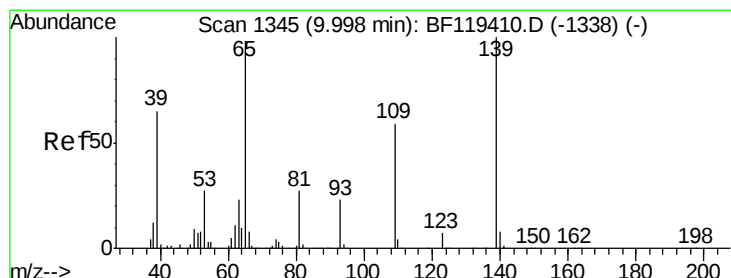
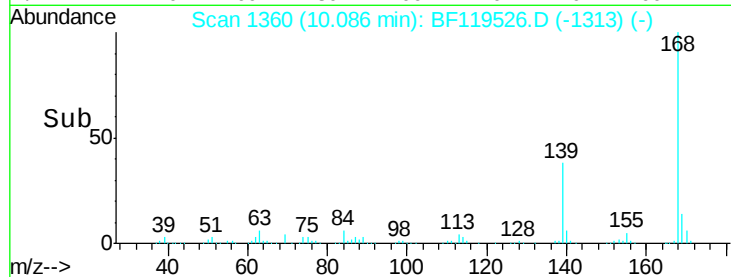
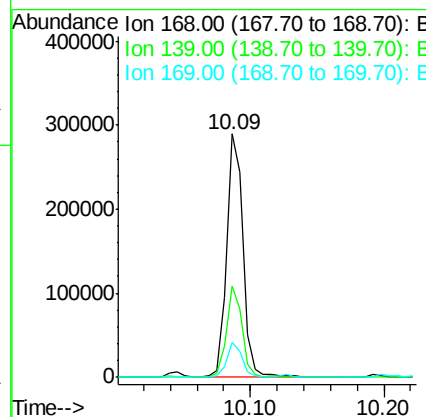
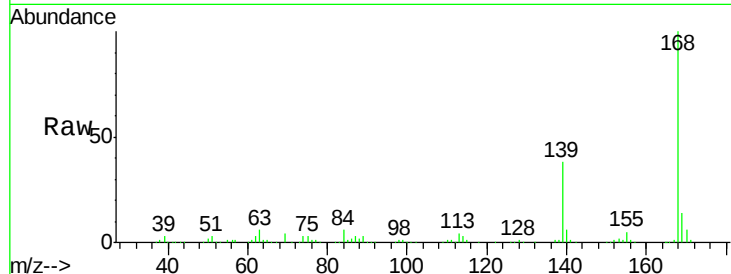




#55
Dibenzenofuran
Concen: 5.218 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

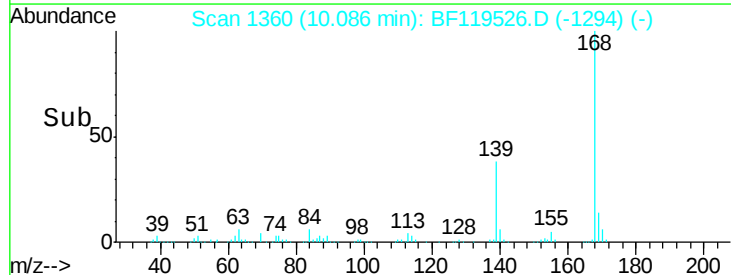
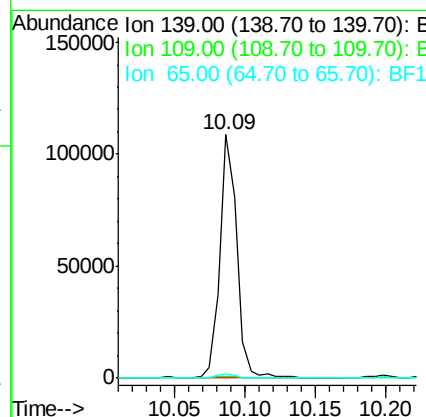
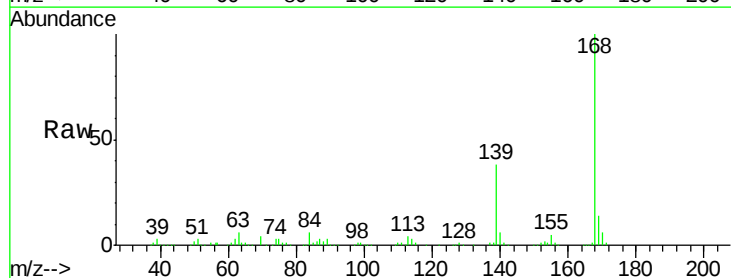
Instrument :
BNA_F
ClientSampleId :
TP-3A

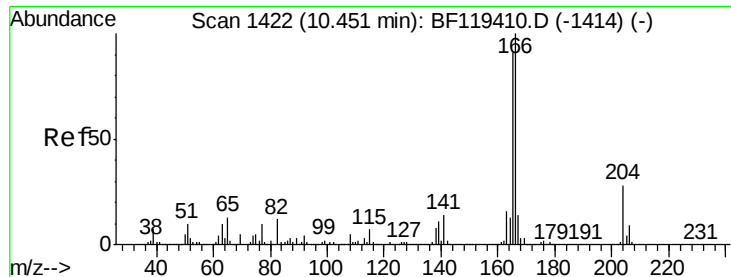
Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.2	45.4
169	14.3	11.1	16.7



#56
4-Nitrophenol
Concen: 11.183 ng
RT: 10.09 min Scan# 1360
Delta R.T. 0.09 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.7	39.6	79.6#
65	1.7	78.3	118.3#





#58

Fluorene

Concen: 9.131 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampled :

TP-3A

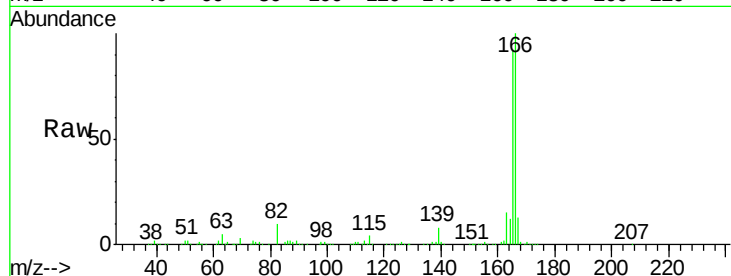
Tgt Ion:166 Resp: 325771

Ion Ratio Lower Upper

166 100

165 92.4 73.1 109.7

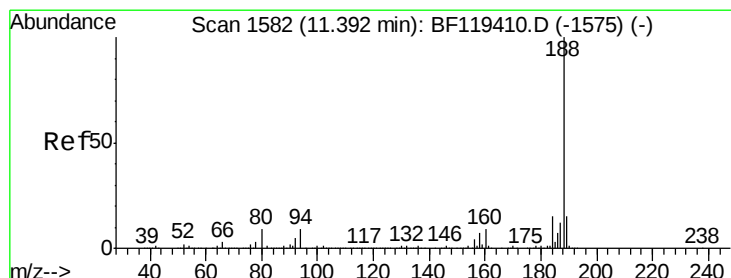
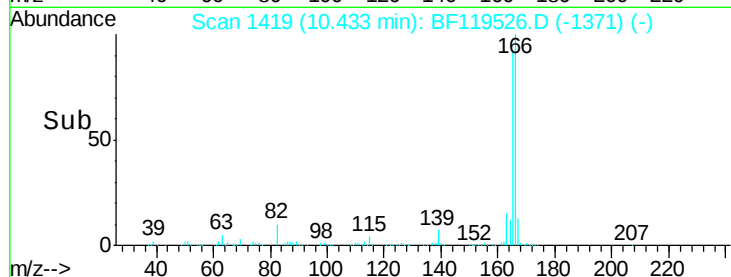
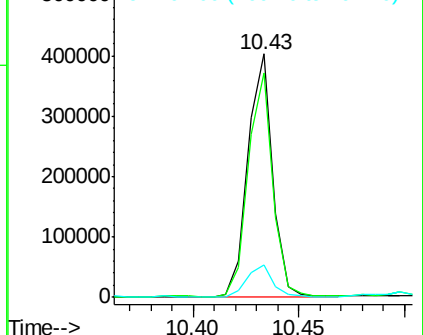
167 13.3 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

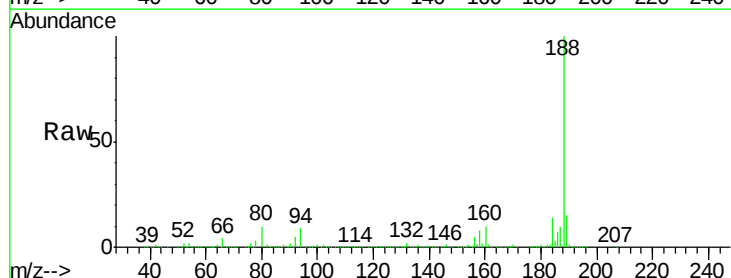
Tgt Ion:188 Resp: 971929

Ion Ratio Lower Upper

188 100

94 9.1 7.1 10.7

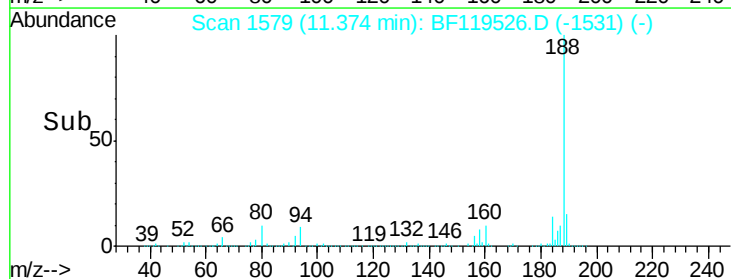
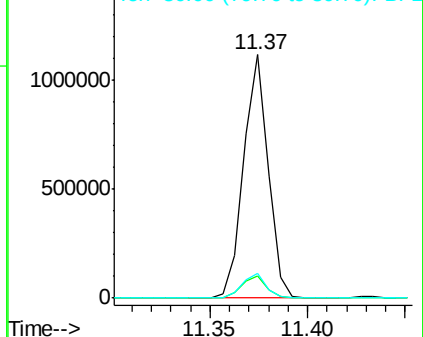
80 9.9 7.5 11.3

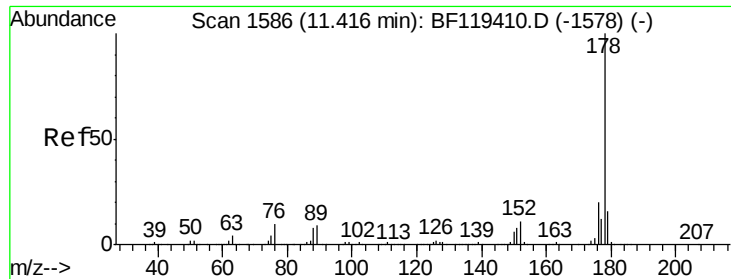


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 38.068 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampled :

TP-3A

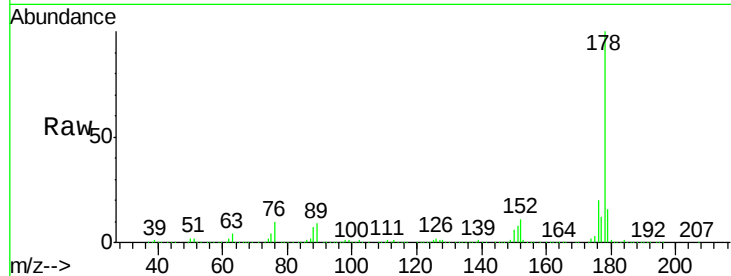
Tgt Ion:178 Resp: 1918534

Ion Ratio Lower Upper

178 100

176 19.6 16.2 24.4

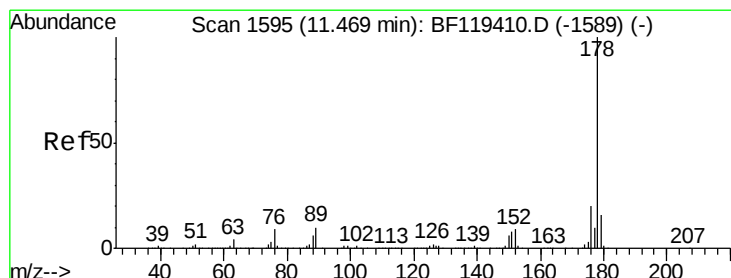
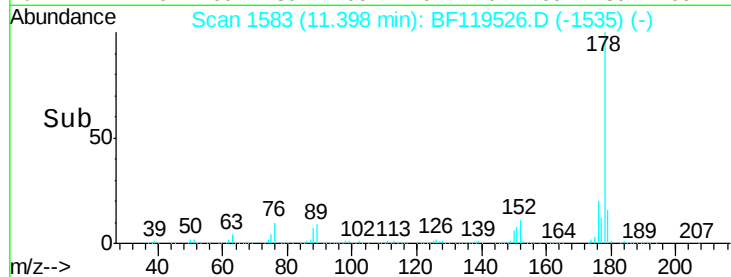
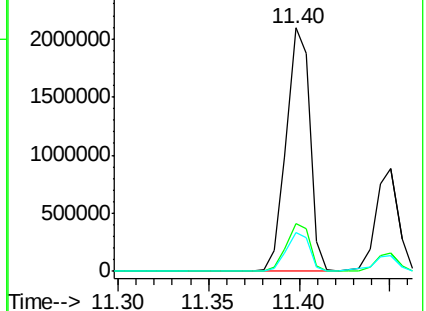
179 16.1 12.9 19.3



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: 14.593 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

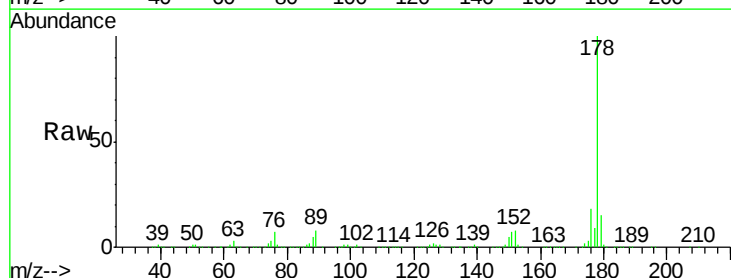
Tgt Ion:178 Resp: 747482

Ion Ratio Lower Upper

178 100

176 18.1 15.6 23.4

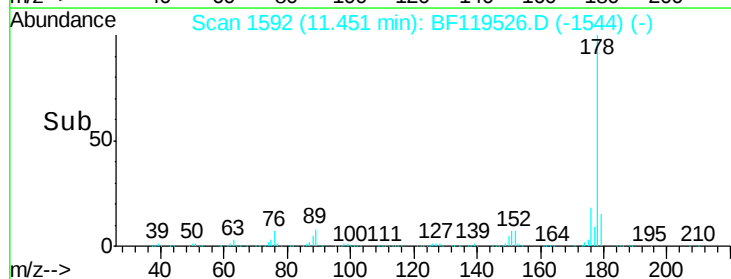
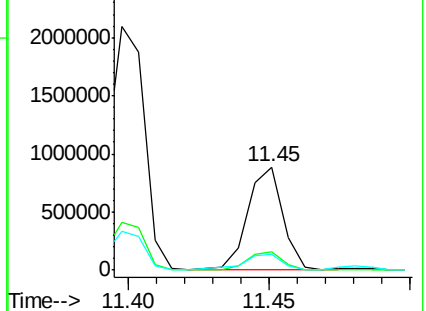
179 14.8 13.1 19.7

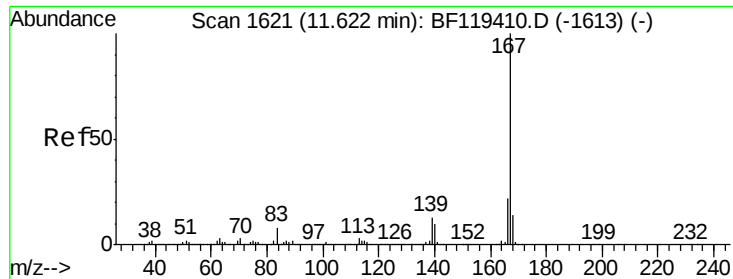


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

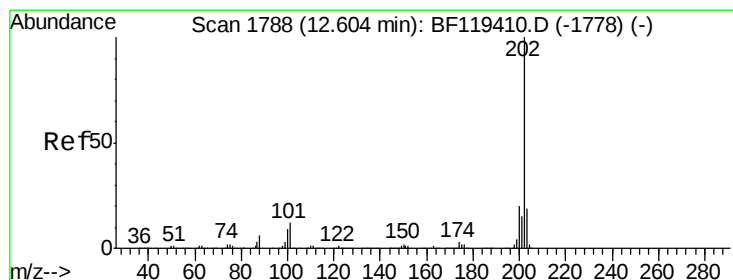
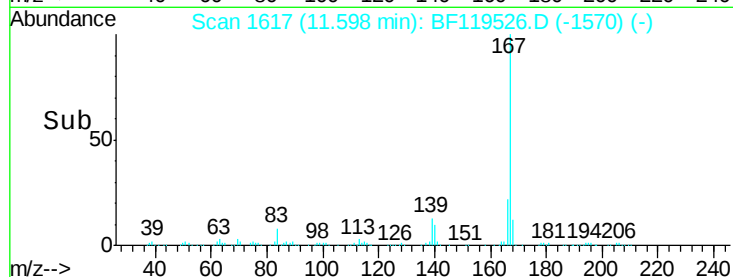
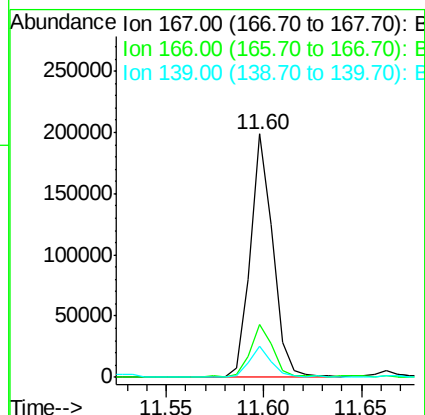
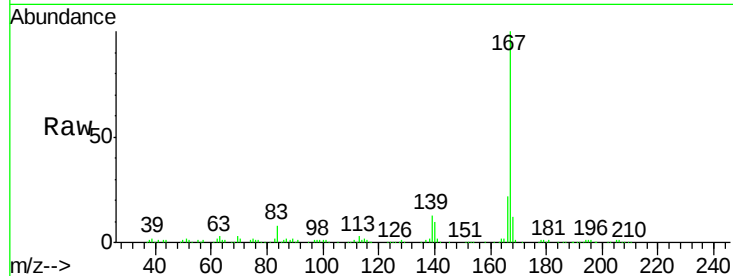




#73
 Carbazole
 Concen: 3.156 ng
 RT: 11.60 min Scan# 1617
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

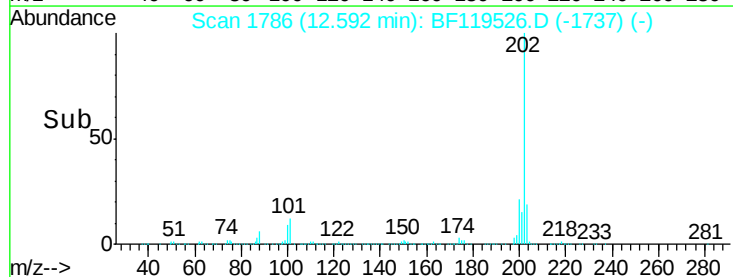
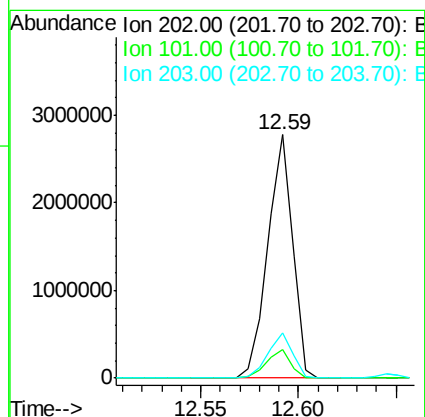
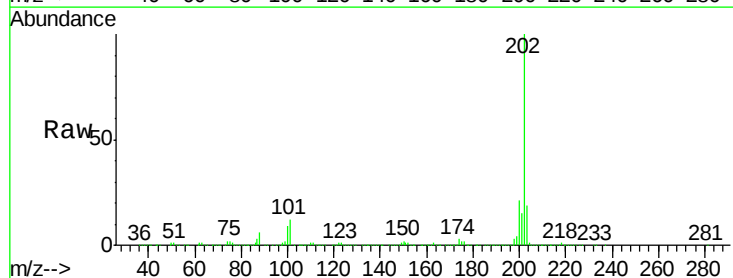
Instrument :
 BNA_F
 ClientSampleId :
 TP-3A

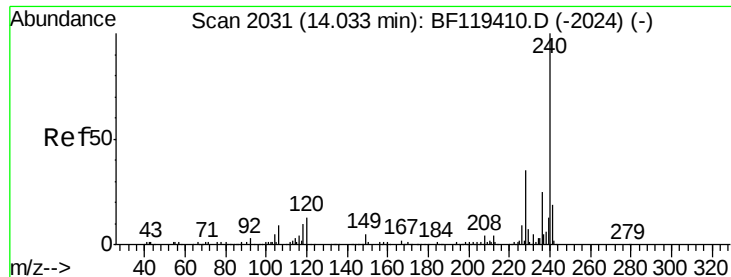
Tgt Ion:167 Resp: 159989
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.8 26.6
 139 13.0 10.2 15.4



#75
 Fluoranthene
 Concen: 44.860 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. -0.01 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Tgt Ion:202 Resp: 2446747
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 32.4
 203 18.6 0.0 38.5

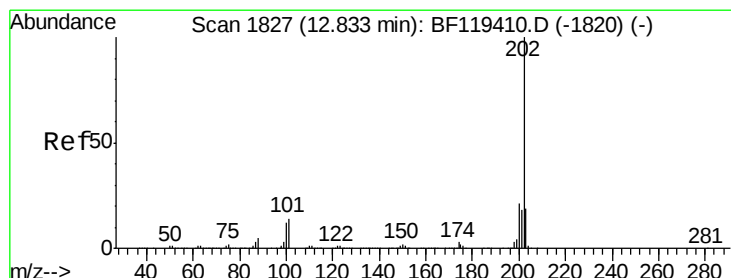
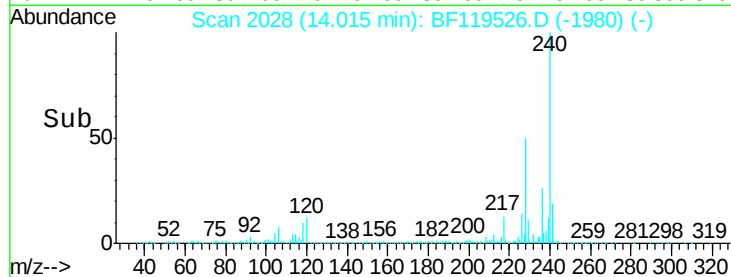
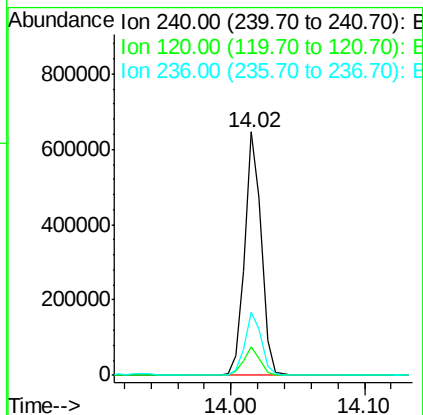
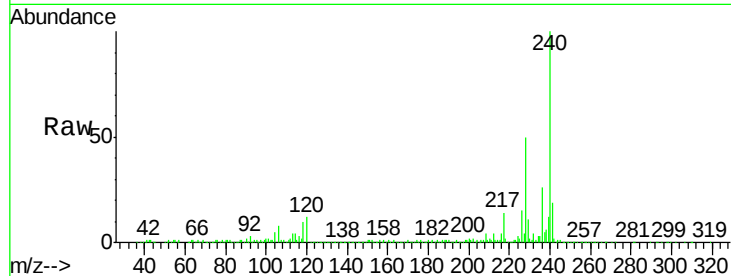




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

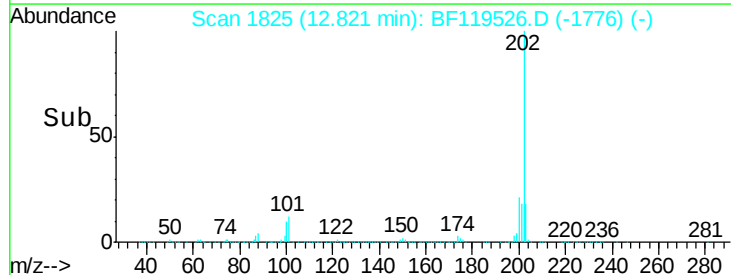
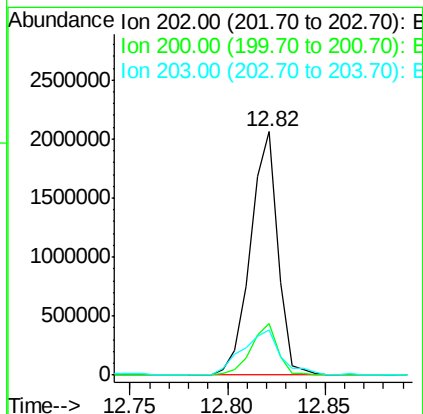
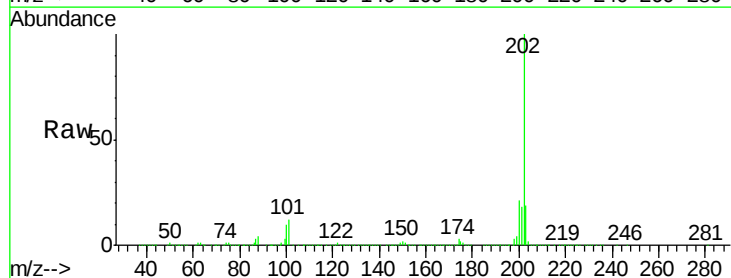
Instrument :
BNA_F
ClientSampleId :
TP-3A

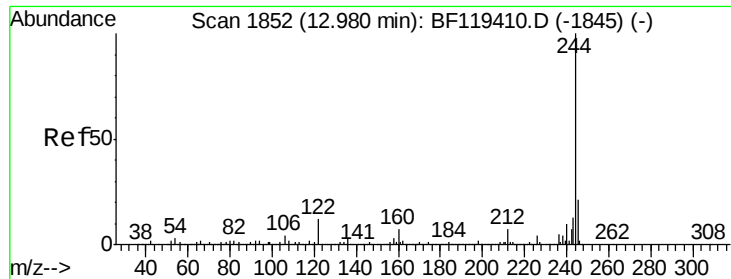
Tgt Ion:240 Resp: 551037
Ion Ratio Lower Upper
240 100
120 11.6 10.2 15.4
236 25.9 20.4 30.6



#78
Pyrene
Concen: 44.329 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion:202 Resp: 2004676
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 18.6 14.8 22.2

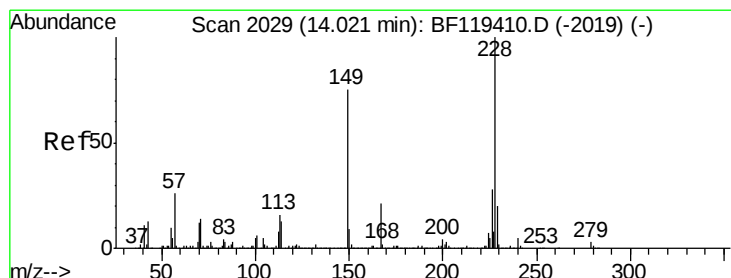
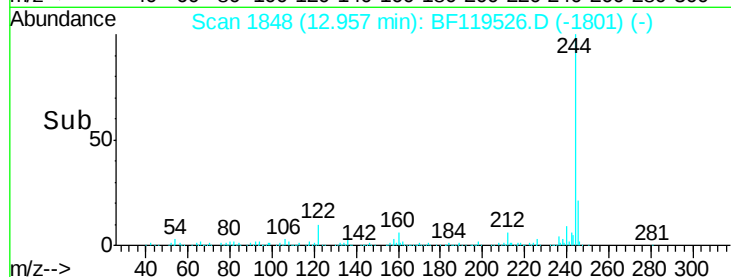
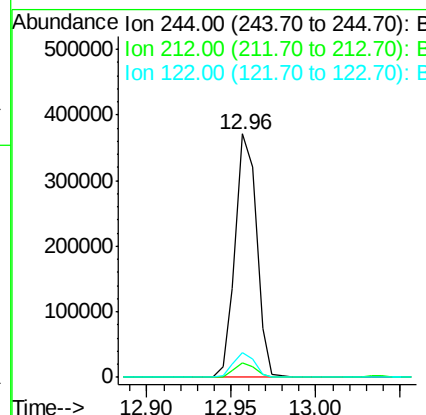
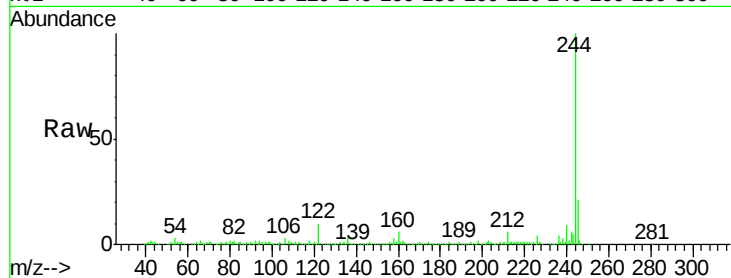




#79
 Terphenyl-d14
 Concen: 11.654 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

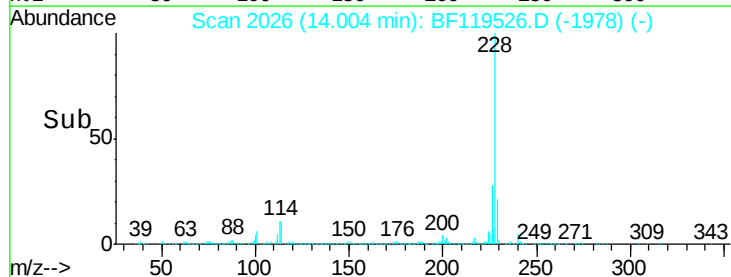
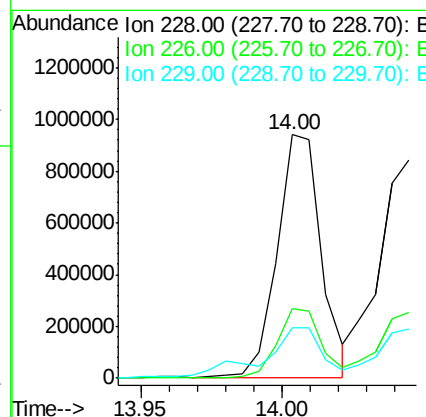
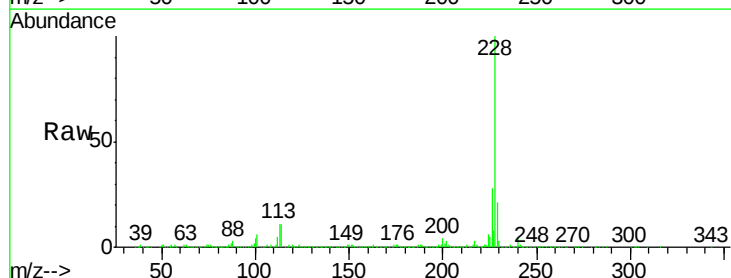
Instrument :
 BNA_F
 ClientSampleId :
 TP-3A

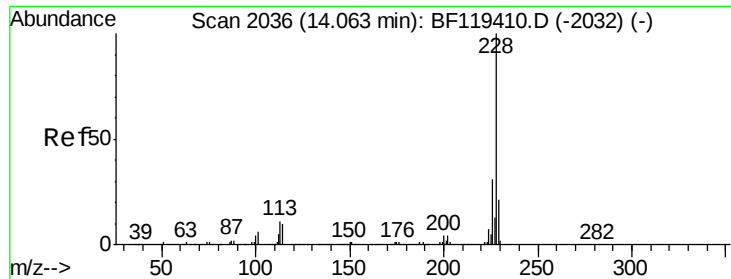
Tgt Ion:244 Resp: 327779
 Ion Ratio Lower Upper
 244 100
 212 5.8 5.7 8.5
 122 10.2 9.8 14.8



#81
 Benzo(a)anthracene
 Concen: 28.159 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Tgt Ion:228 Resp: 1009013
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.3 33.5
 229 20.9 16.3 24.5





#83

Chrysene

Concen: 22.980 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampleId :

TP-3A

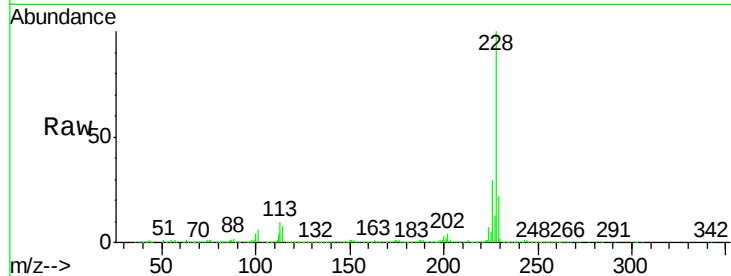
Tgt Ion:228 Resp: 849832

Ion Ratio Lower Upper

228 100

226 29.9 24.8 37.2

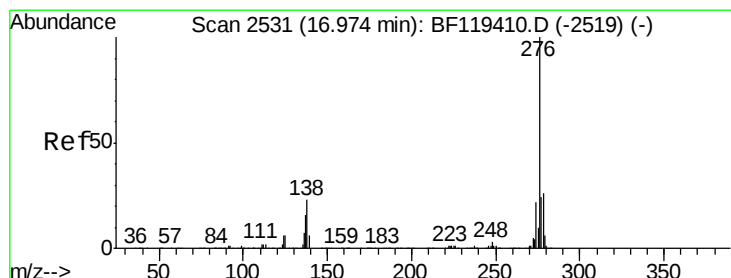
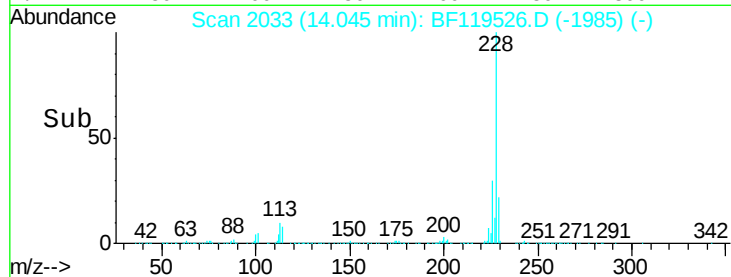
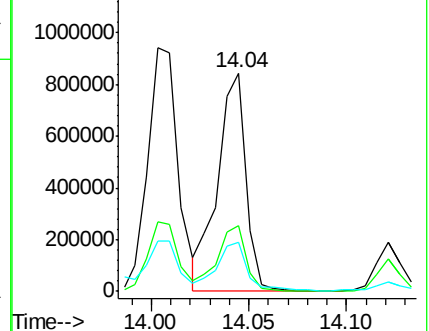
229 22.2 16.6 25.0



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: 3.181 ng

RT: 16.79 min Scan# 2499

Delta R.T. -0.19 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

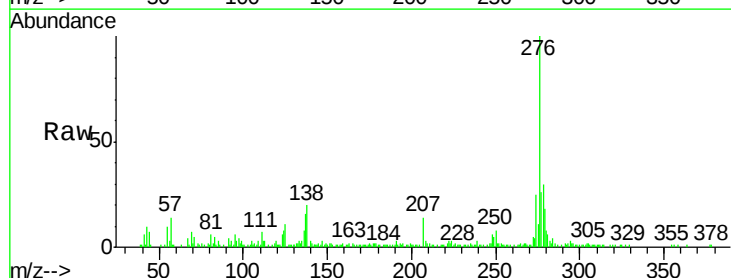
Tgt Ion:276 Resp: 110789

Ion Ratio Lower Upper

276 100

138 22.5 21.3 31.9

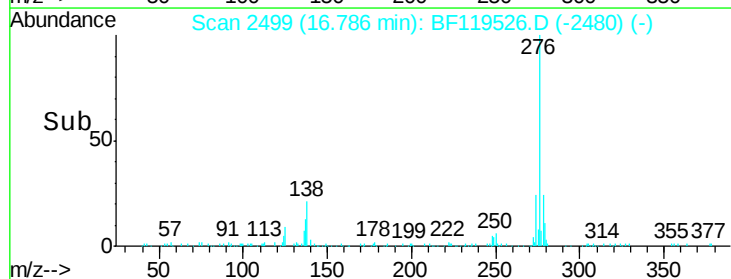
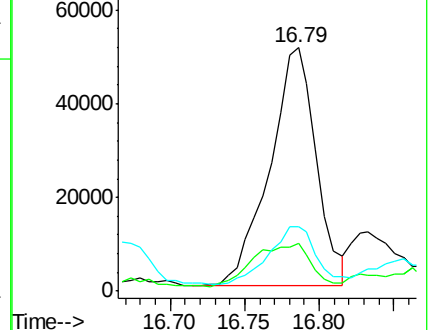
277 24.8 20.2 30.2

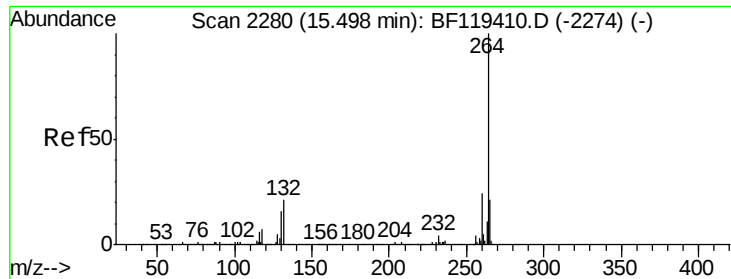


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

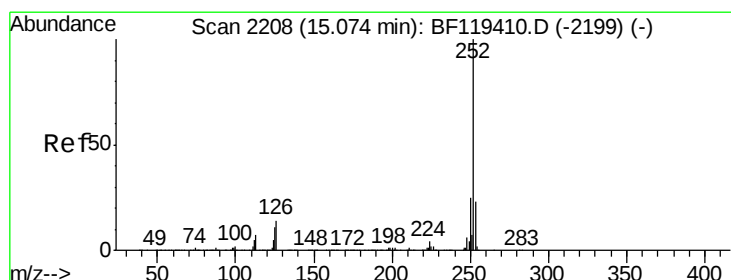
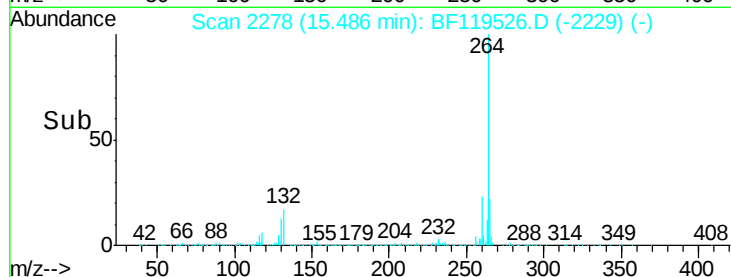
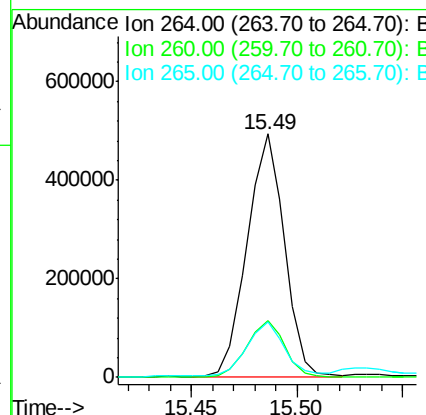
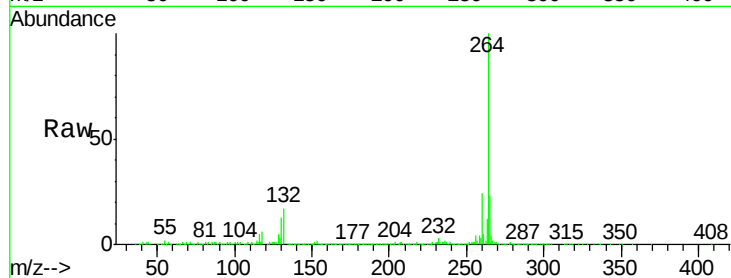




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

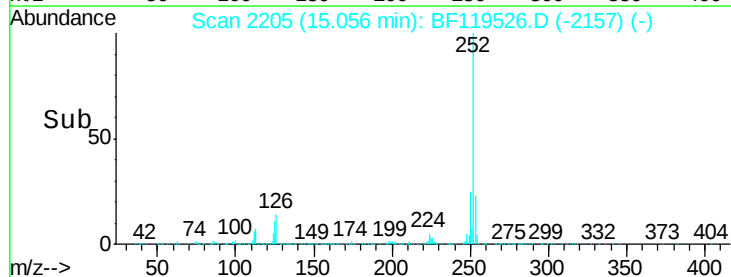
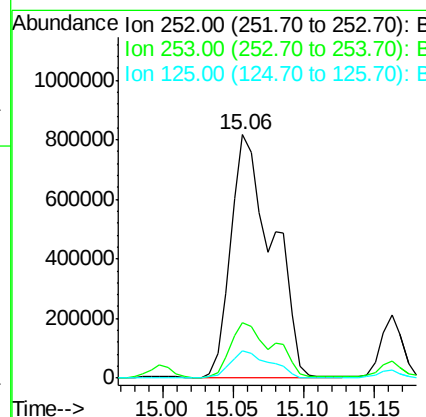
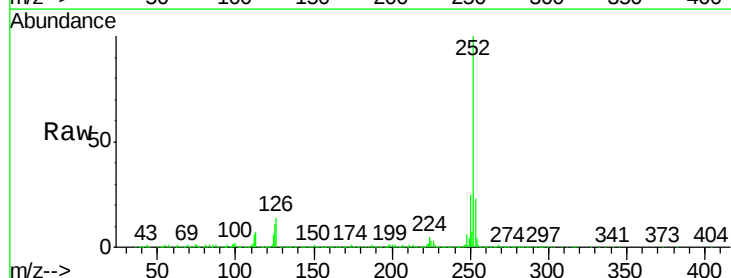
Instrument :
BNA_F
ClientSampleId :
TP-3A

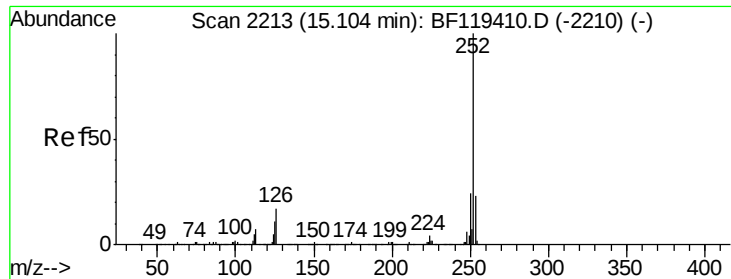
Tgt Ion:264 Resp: 604131
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 22.7 16.9 25.3



#88
Benzo(b)fluoranthene
Concen: 41.730 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion:252 Resp: 1684038
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.4
125 11.3 8.8 13.2

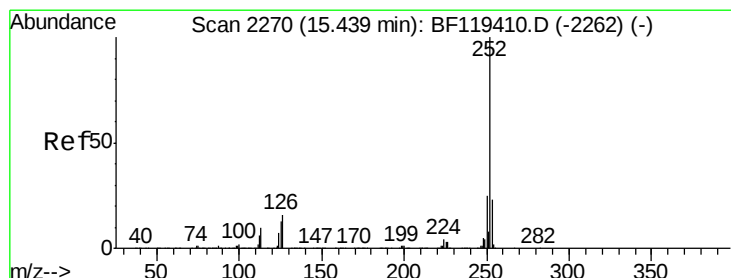
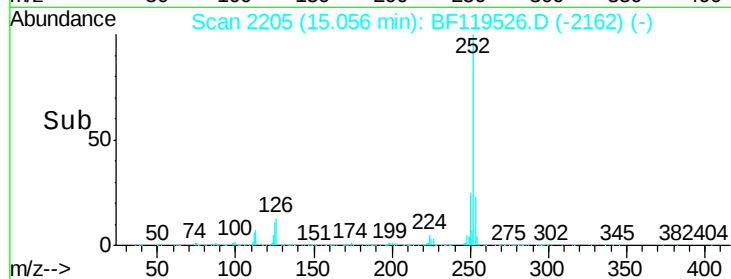
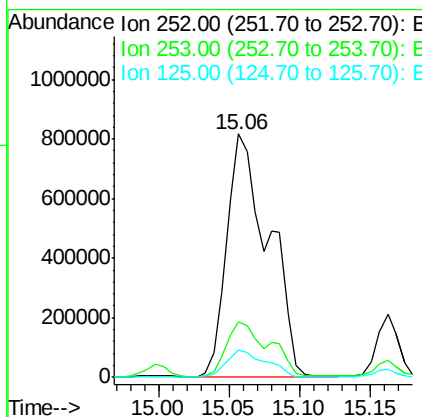
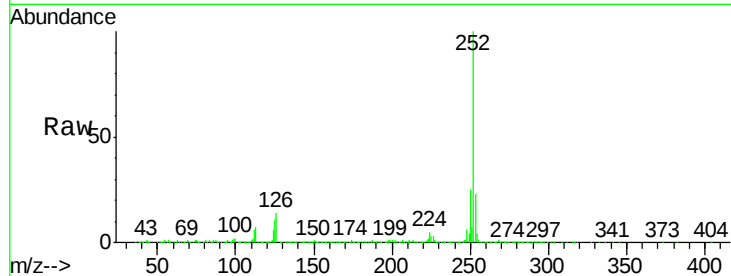




#89
Benzo(k)fluoranthene
Concen: 43.824 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.05 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

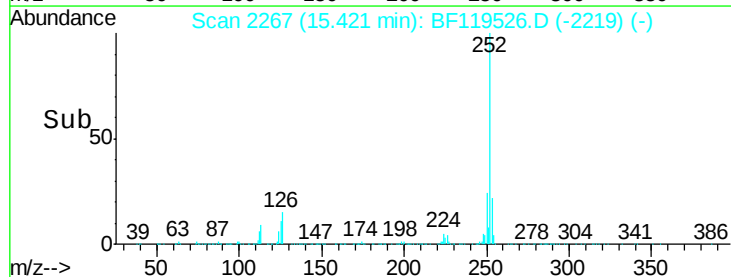
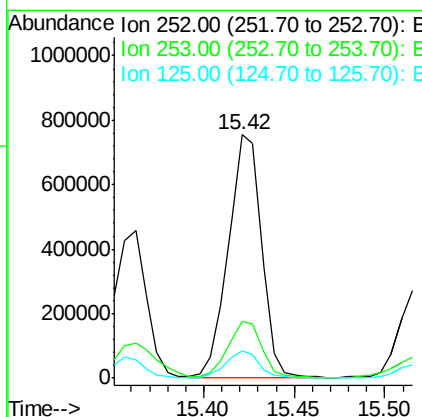
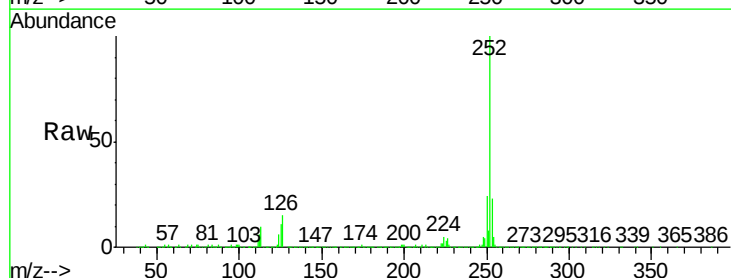
Instrument :
BNA_F
ClientSampleId :
TP-3A

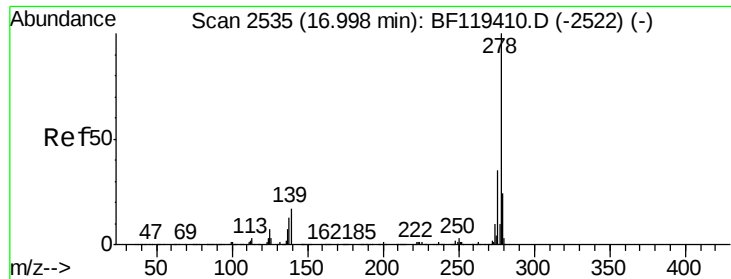
Tgt Ion:252 Resp: 1684038
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.4
125 11.3 9.0 13.4



#90
Benzo(a)pyrene
Concen: 26.107 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion:252 Resp: 957460
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.4
125 11.3 10.2 15.2



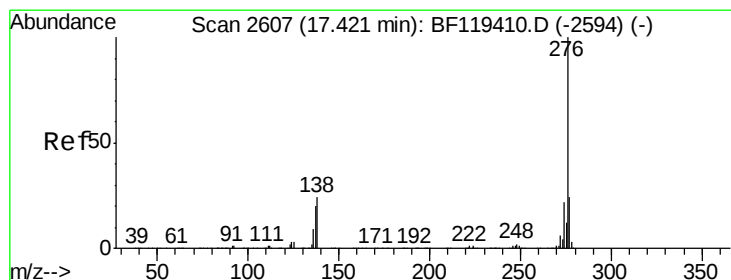
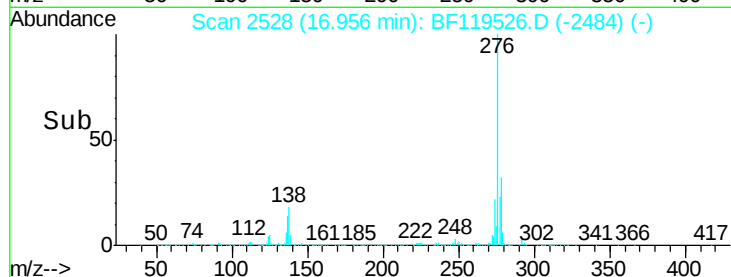
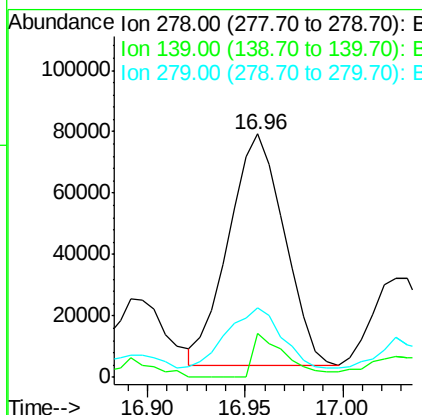
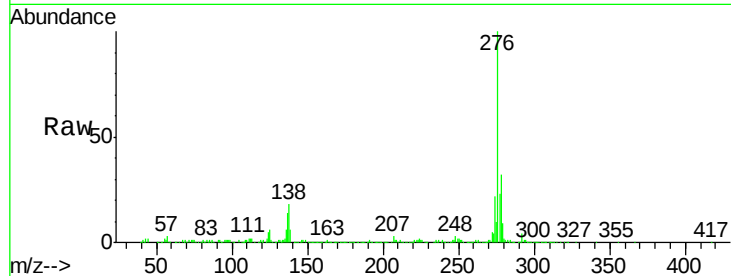


#91
Dibenzo(a,h)anthracene
Concen: 4.636 ng
RT: 16.96 min Scan# 2528
Delta R.T. -0.04 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Instrument :
BNA_F
ClientSampleId :
TP-3A

Tgt Ion:278 Resp: 148727

Ion	Ratio	Lower	Upper
278	100		
139	18.1	13.7	20.5
279	28.6	19.2	28.8



#92
Benzo(g,h,i)perylene
Concen: 17.053 ng
RT: 17.39 min Scan# 2602
Delta R.T. -0.03 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion:276 Resp: 549562

Ion	Ratio	Lower	Upper
276	100		
277	22.7	18.8	28.2
138	20.5	19.1	28.7

