

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020620\
 Data File : BF118838.D
 Acq On : 6 Feb 2020 15:46
 Operator : CG/JU
 Sample : L1408-09
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 06 21:06:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	229075	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	807446	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	501262	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	955313	20.00	ng	0.00
76) Chrysene-d12	13.97	240	688008	20.00	ng	-0.01
87) Perylene-d12	15.42	264	727814	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	1225062	101.23	ng	0.00
7) Phenol-d6	6.45	99	1483816	98.77	ng	0.00
23) Nitrobenzene-d5	7.37	82	986342	72.81	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	606763	101.17	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	2026738	72.28	ng	-0.01
79) Terphenyl-d14	12.92	244	2420018	72.25	ng	-0.01

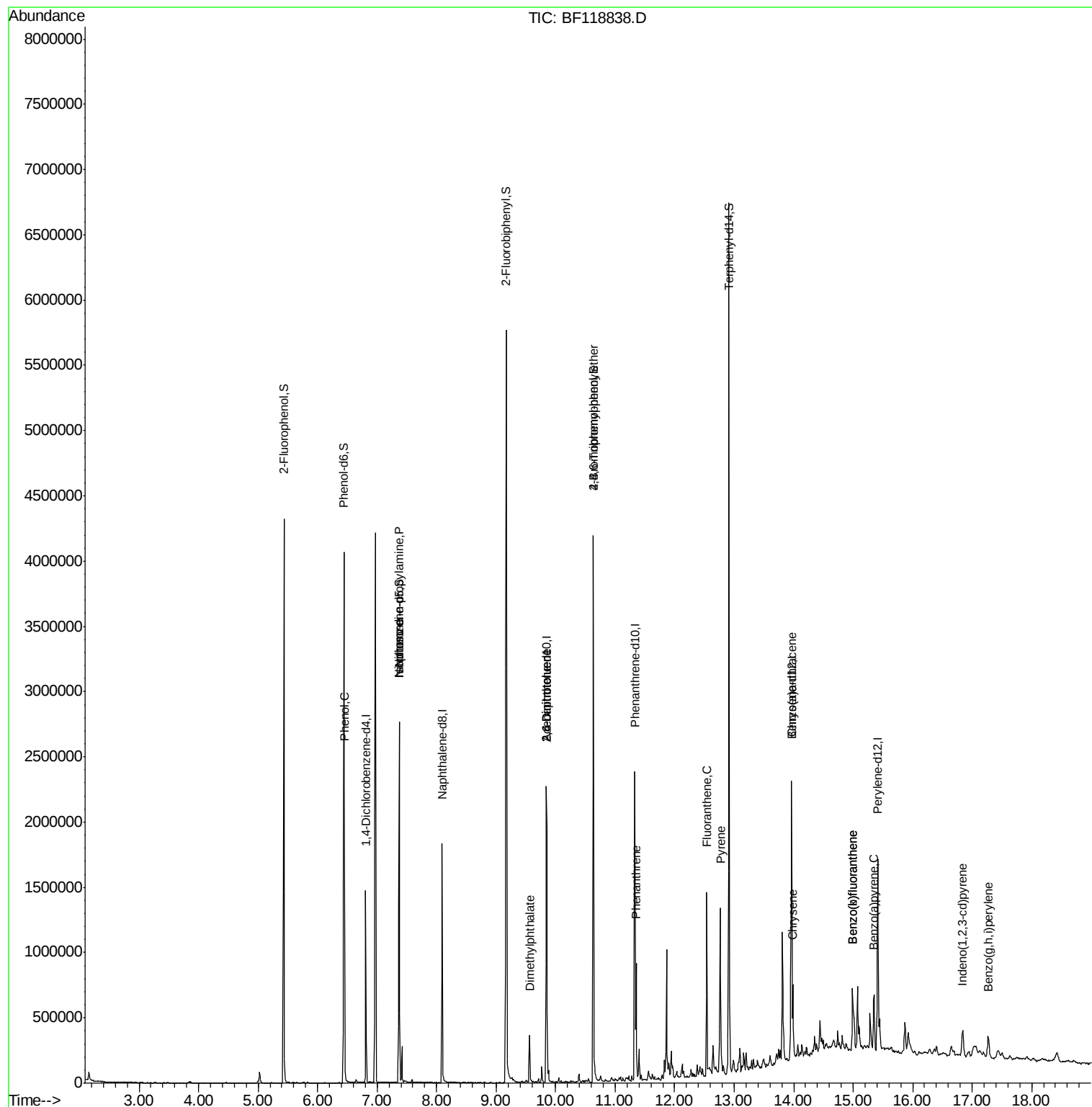
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.36	77	478	Below Cal		# 82
10) Phenol	6.46	94	52942	3.169	ng	95
19) n-Nitroso-di-n-propylamine	7.37	70	133155	14.487	ng	# 77
25) Isophorone	7.37	82	986334	40.513	ng	# 63
50) Dimethylphthalate	9.56	163	168939	4.950	ng	98
51) 2,6-Dinitrotoluene	9.85	165	65132	8.340	ng	# 31
57) 2,4-Dinitrotoluene	9.85	165	65484	6.336	ng	# 34
67) 4-Bromophenyl-phenylether	10.63	248	39395	3.486	ng	# 1
71) Phenanthrene	11.35	178	332045	7.064	ng	96
75) Fluoranthene	12.54	202	555296	10.821	ng	98
78) Pyrene	12.77	202	500937	10.613	ng	97
81) Benzo(a)anthracene	13.96	228	250671	6.123	ng	97
83) Chrysene	13.99	228	212832	5.180	ng	98
86) Indeno(1,2,3-cd)pyrene	16.84	276	147972	3.584	ng	93
88) Benzo(b)fluoranthene	14.99	252	375323	8.311	ng	99
89) Benzo(k)fluoranthene	14.99	252	375323	9.544	ng	98
90) Benzo(a)pyrene	15.35	252	218551	5.655	ng	98
92) Benzo(g,h,i)perylene	17.27	276	141543	4.290	ng	98

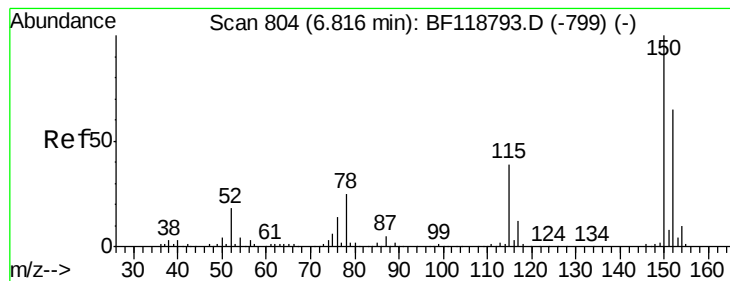
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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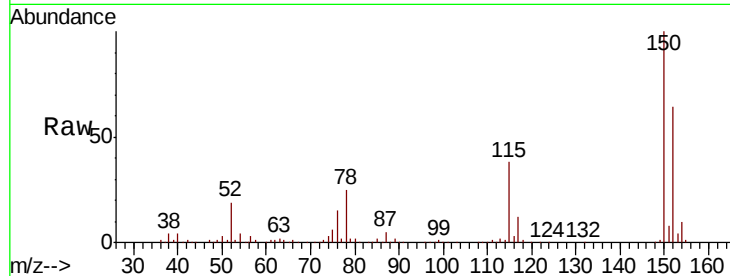


#1

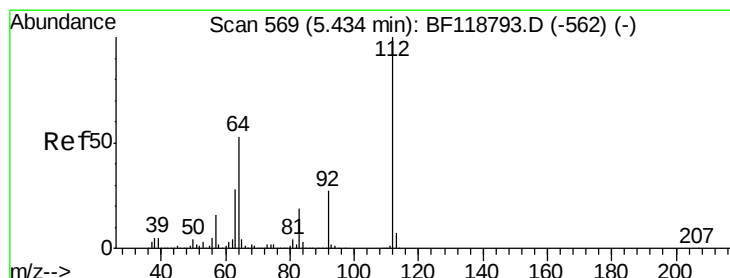
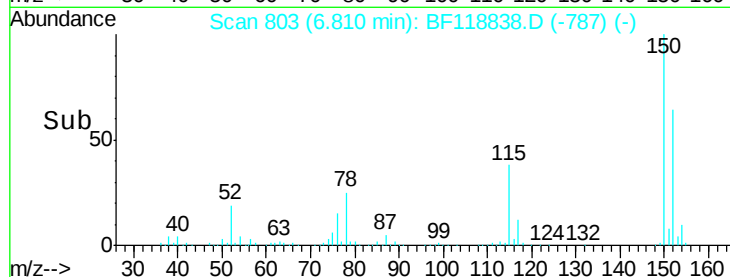
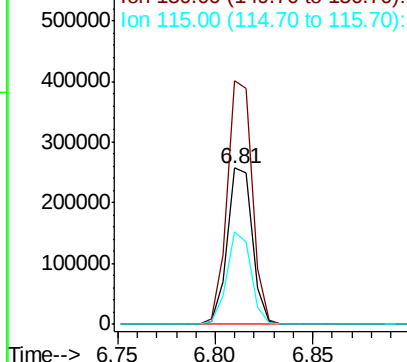
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	123.6	185.4
115	59.7	48.2	72.2



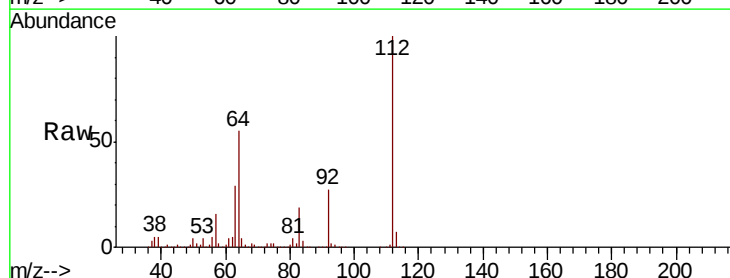
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



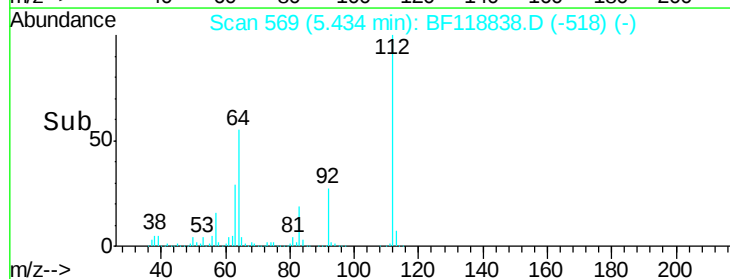
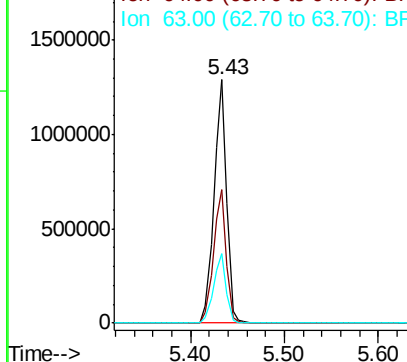
#5

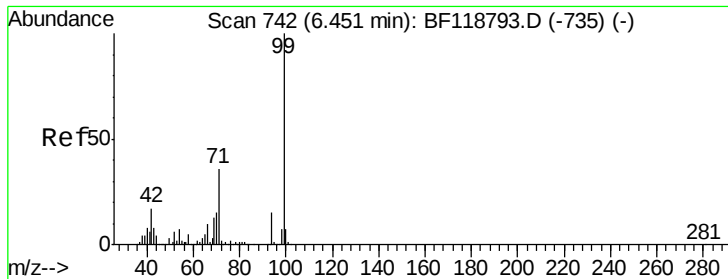
2-Fluorophenol
Concen: 101.231 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.00 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	42.6	63.8
63	28.6	22.2	33.4



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: 98.774 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

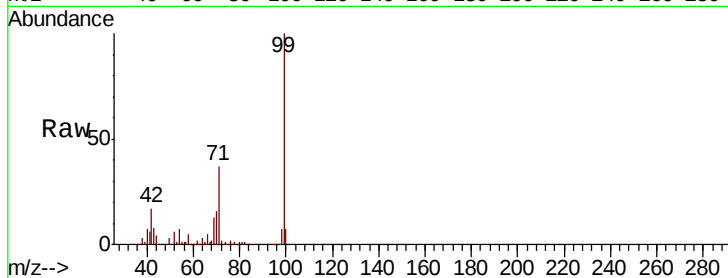
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1483816

Ion	Ratio	Lower	Upper
99	100		
42	17.4	13.4	20.0
71	36.6	29.0	43.6

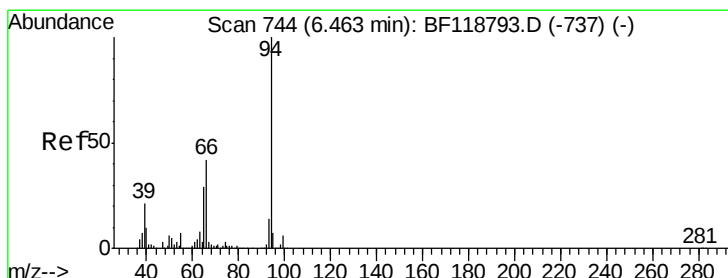
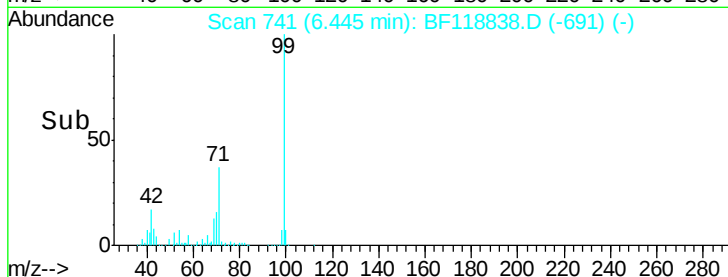
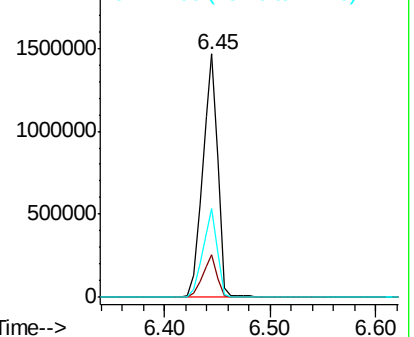


Abundance

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: 3.169 ng

RT: 6.46 min Scan# 743

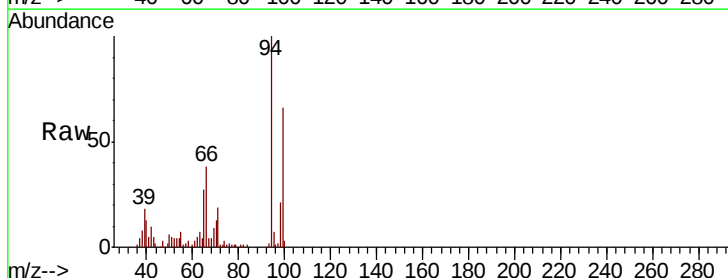
Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Tgt Ion: 94 Resp: 52942

Ion	Ratio	Lower	Upper
94	100		
65	26.6	9.1	49.1
66	37.9	21.7	61.7

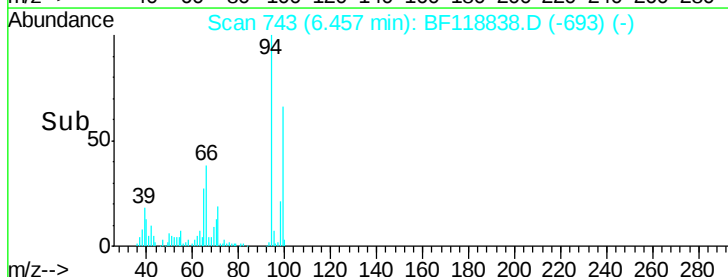
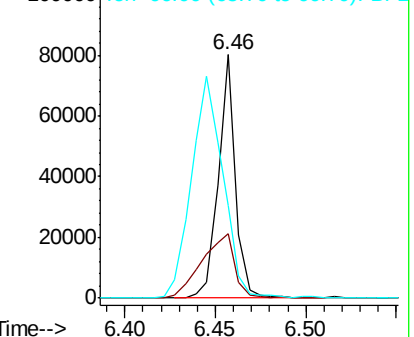


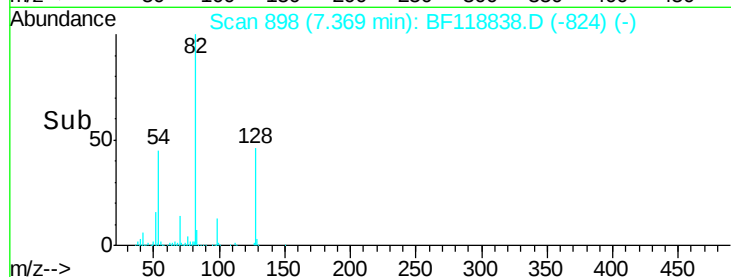
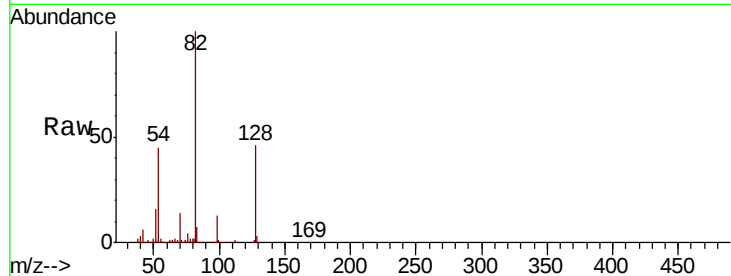
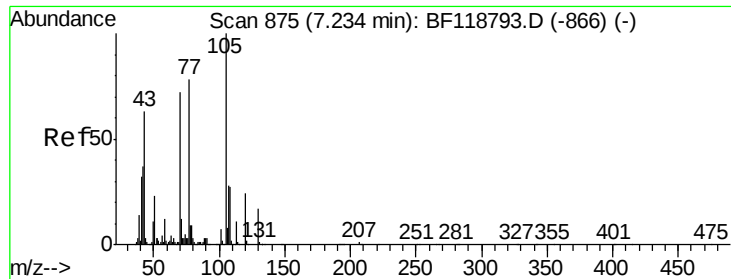
Abundance

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

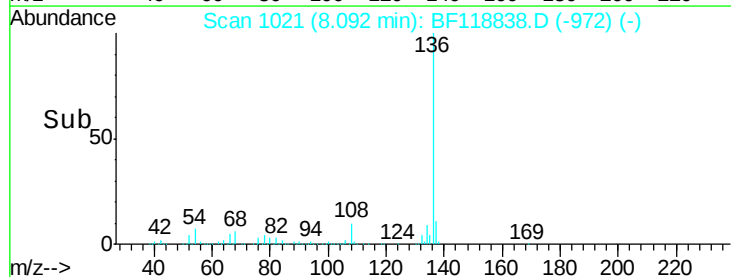
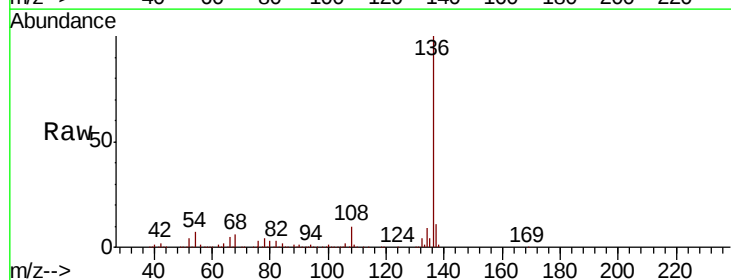
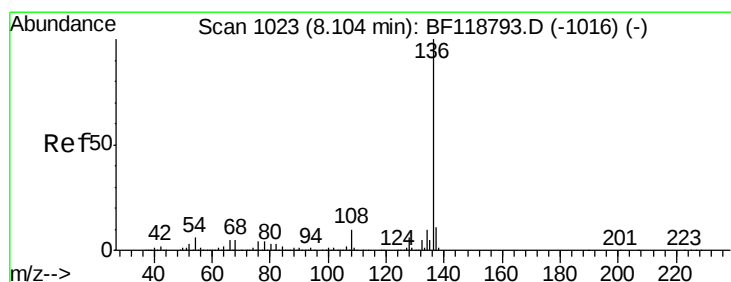
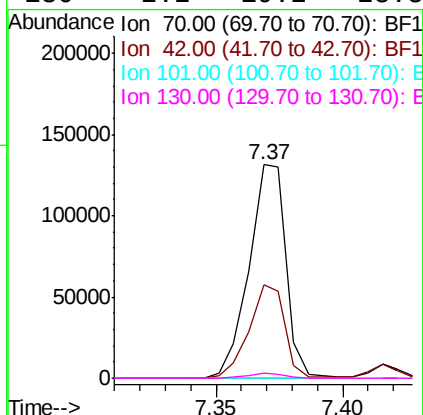




#19
n-Nitroso-di-n-propylamine
Concen: 14.487 ng
RT: 7.37 min Scan# 898
Delta R.T. 0.14 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

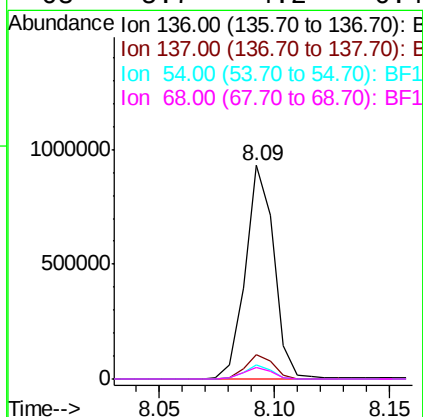
Instrument :
BNA_F
ClientSampleId :

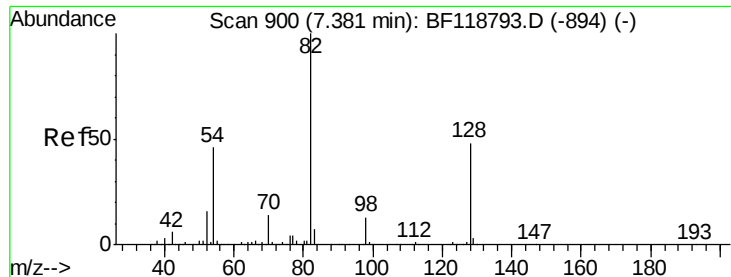
Tot Ion	Ratio	Lower	Upper
70	100		
42	43.5	41.5	62.3
101	0.0	8.3	12.5#
130	2.2	19.2	28.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	6.7	5.0	7.6
68	5.7	4.2	6.4

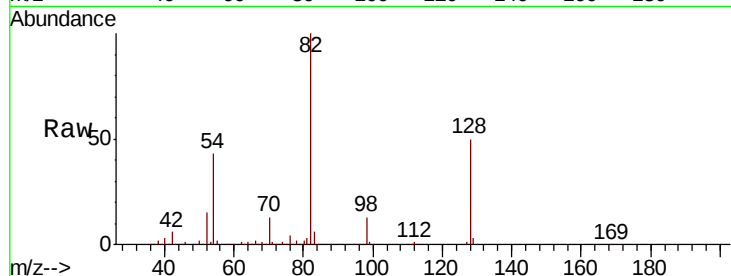




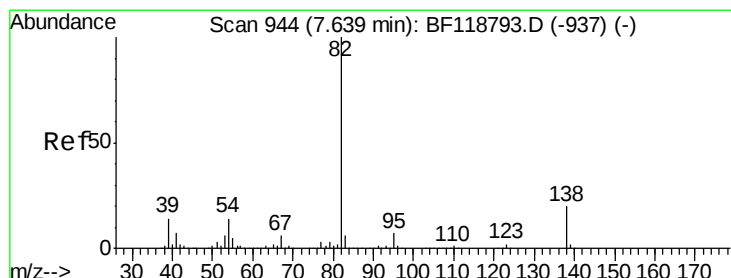
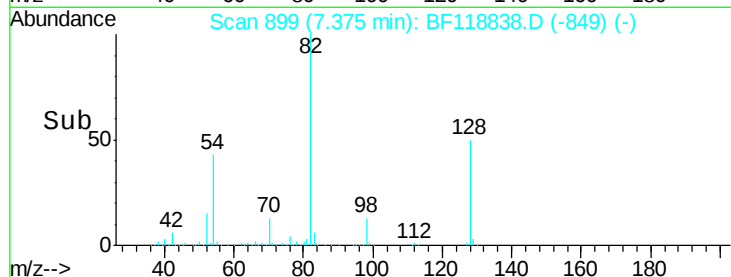
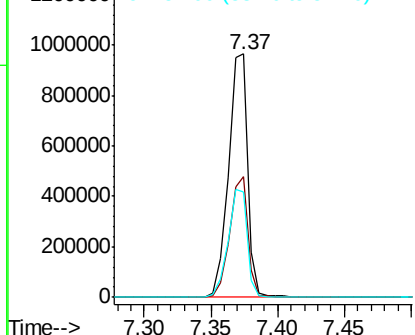
#23
Nitrobenzene-d5
Concen: 72.811 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 986342
Ion Ratio Lower Upper
82 100
128 49.8 38.5 57.7
54 43.1 36.7 55.1

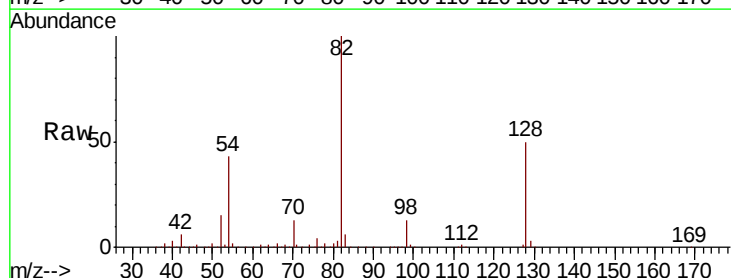


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

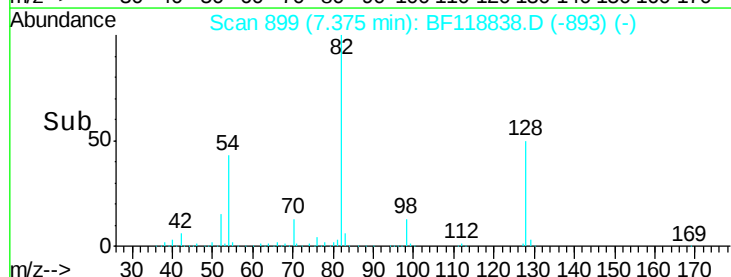
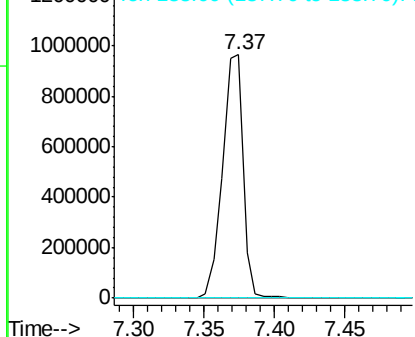


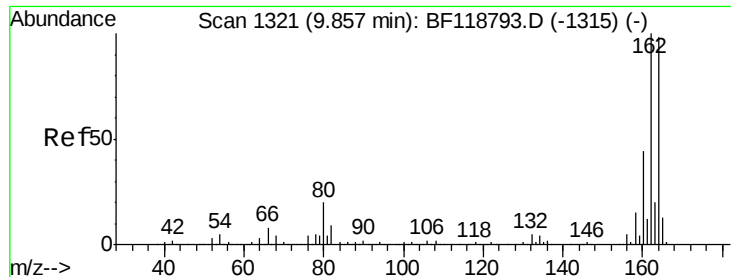
#25
Isophorone
Concen: 40.513 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.26 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Tgt Ion: 82 Resp: 986334
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 15.7 23.5#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Instrument :

BNA_F

ClientSampleId :

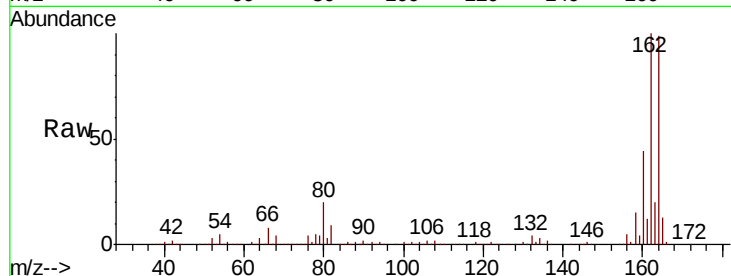
Tot Ion:164 Resp: 501262

Ion Ratio Lower Upper

164 100

162 100.7 81.4 122.2

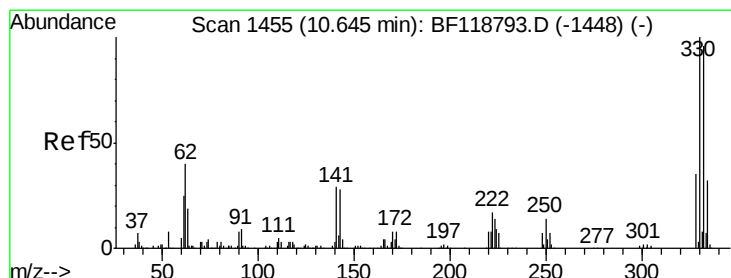
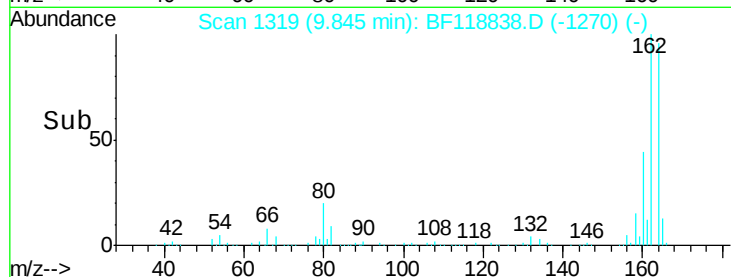
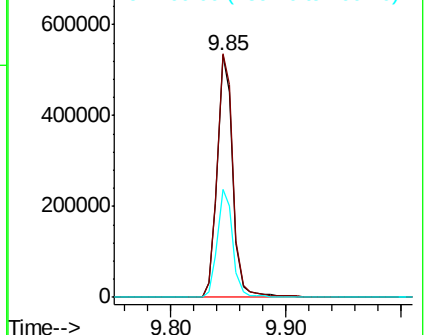
160 44.8 35.6 53.4



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: 101.165 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

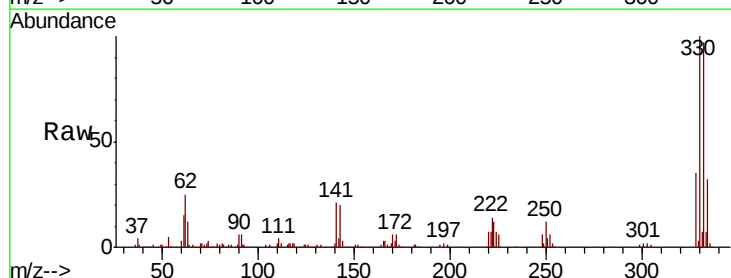
Tgt Ion:330 Resp: 606763

Ion Ratio Lower Upper

330 100

332 96.4 77.3 115.9

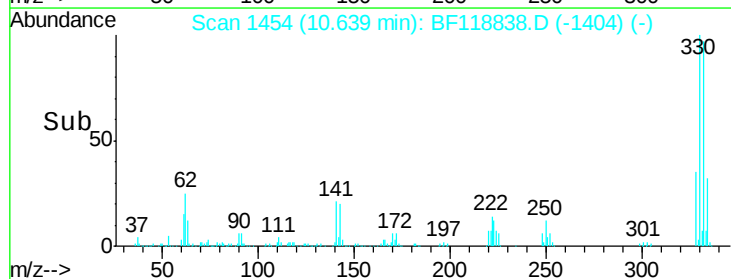
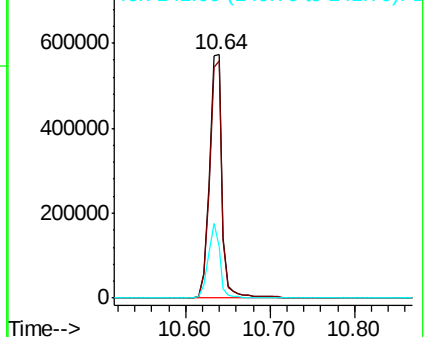
141 28.2 22.4 33.6

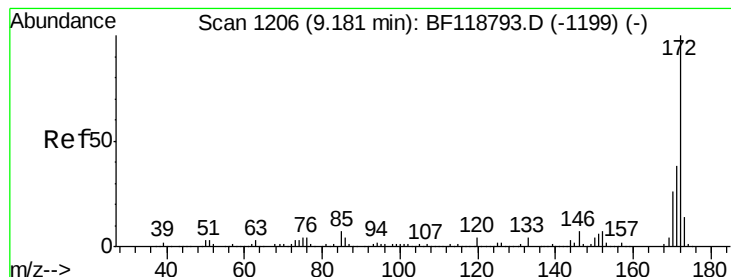


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 72.281 ng

RT: 9.17 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Instrument :

BNA_F

ClientSampled :

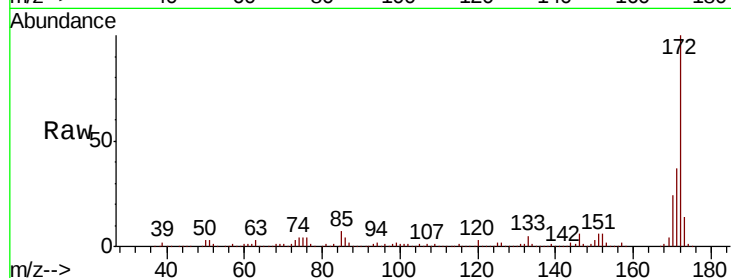
Tot Ion:172 Resp: 2026738

Ion Ratio Lower Upper

172 100

171 36.7 30.8 46.2

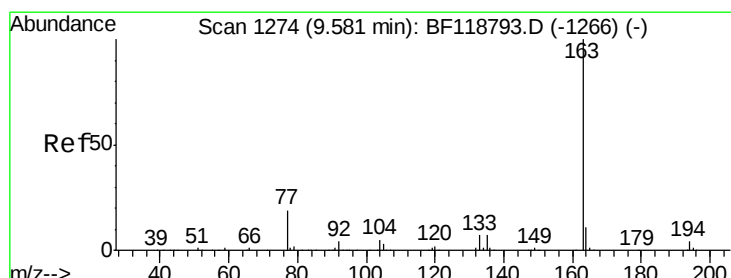
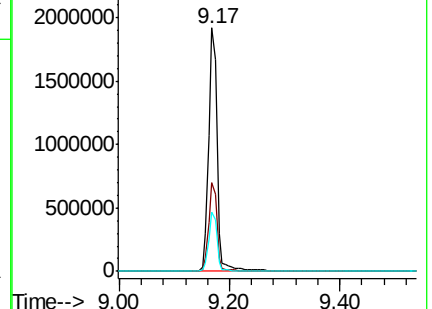
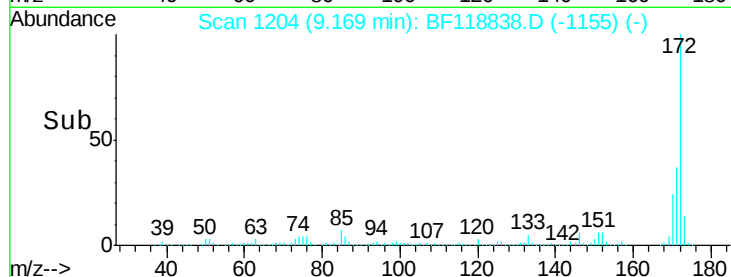
170 24.4 20.5 30.7



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: 4.950 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

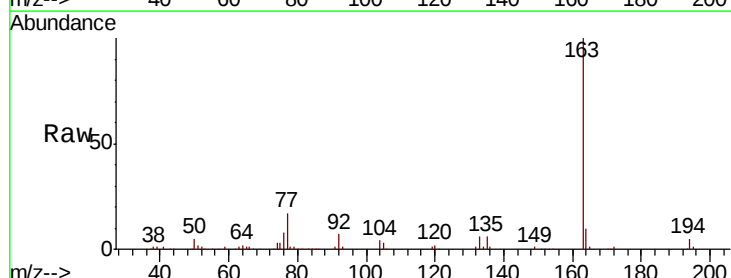
Tgt Ion:163 Resp: 168939

Ion Ratio Lower Upper

163 100

194 4.5 3.6 5.4

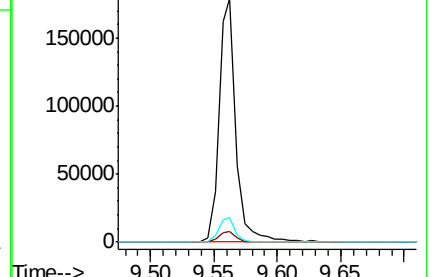
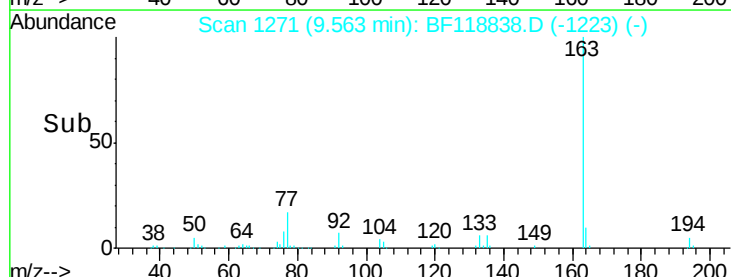
164 10.0 8.7 13.1

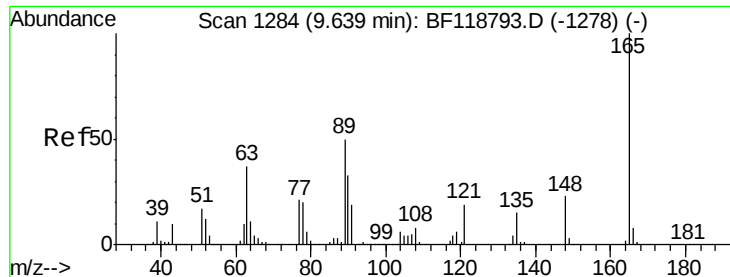


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 8.340 ng

RT: 9.85 min Scan# 1319

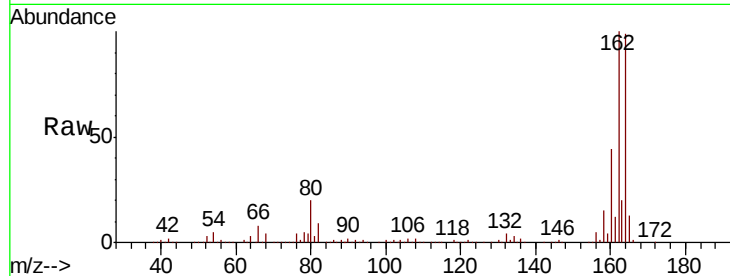
Delta R.T. 0.21 min

Lab File: BF118838.D

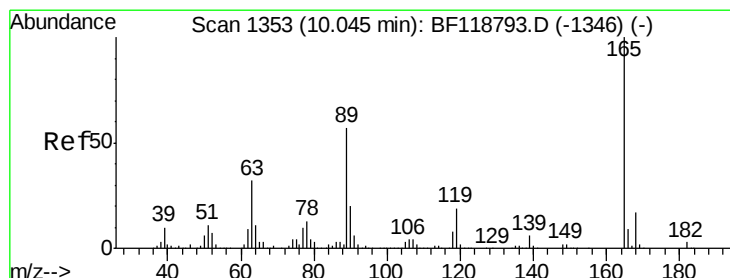
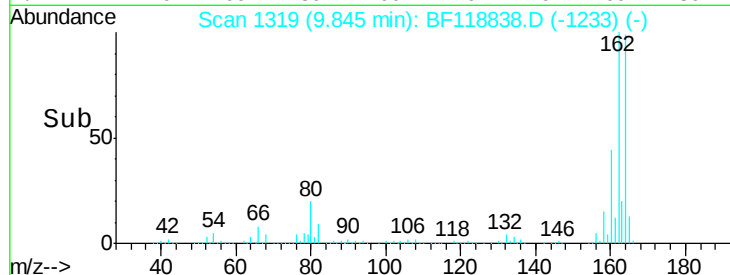
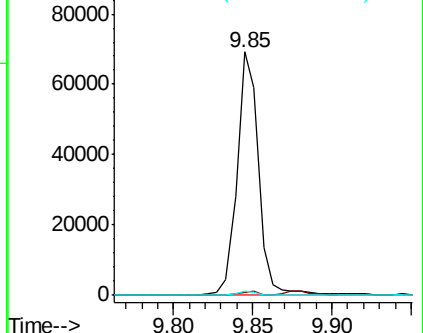
Acq: 6 Feb 2020 15:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165	Resp:	65132
Ion Ratio	Lower	Upper
165	100	
63	1.0	37.4 56.0#
89	1.8	39.7 59.5#



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



#57

2,4-Dinitrotoluene

Concen: 6.336 ng

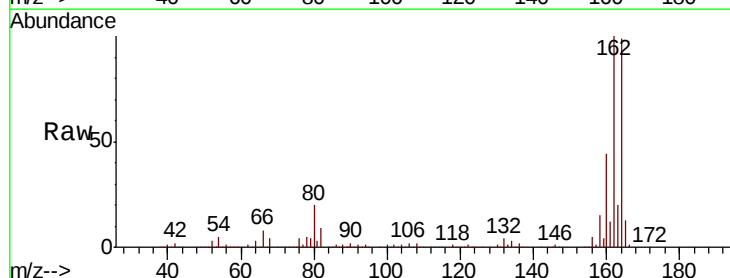
RT: 9.85 min Scan# 1319

Delta R.T. -0.20 min

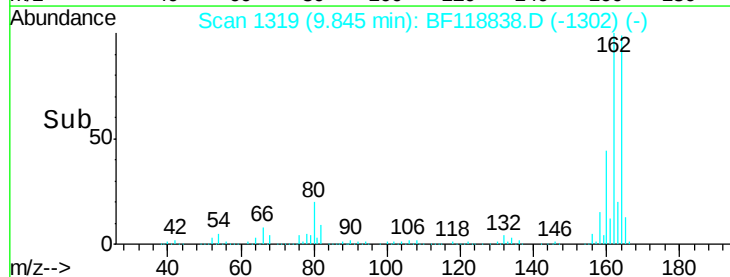
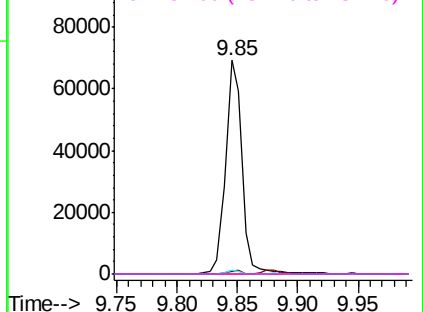
Lab File: BF118838.D

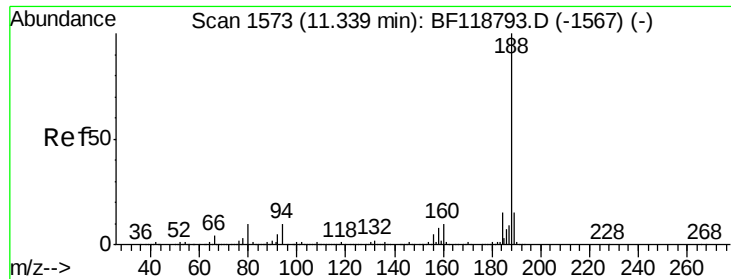
Acq: 6 Feb 2020 15:46

Tgt Ion:165	Resp:	65484
Ion Ratio	Lower	Upper
165	100	
63	1.0	25.5 38.3#
89	1.8	45.4 68.0#
182	0.0	2.4 3.6#



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

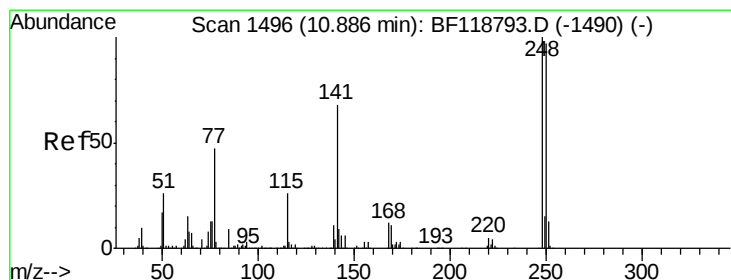
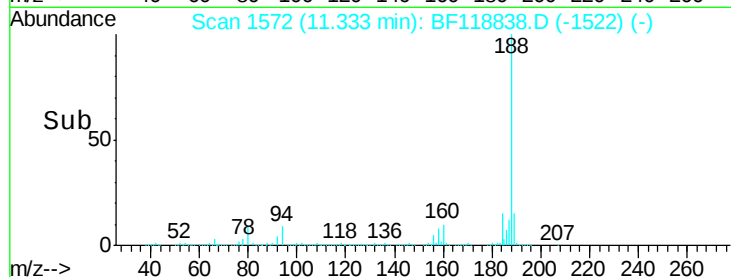
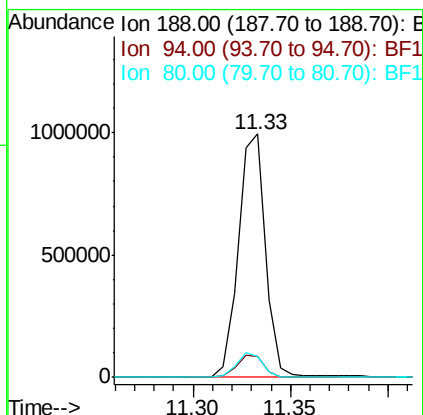
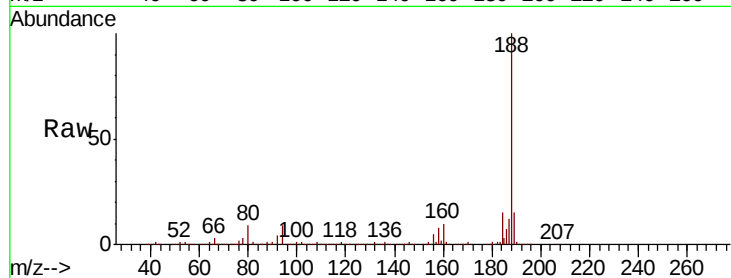




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

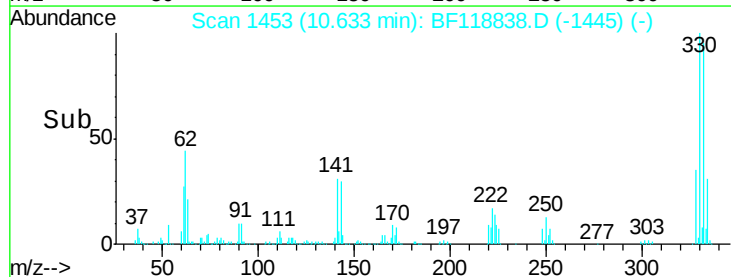
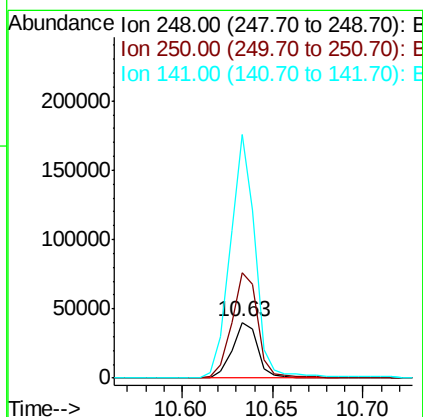
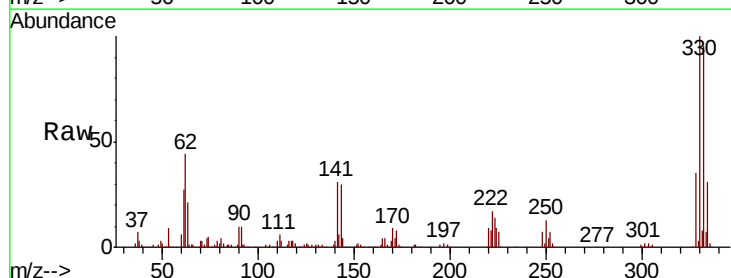
Instrument :
BNA_F
ClientSampled :

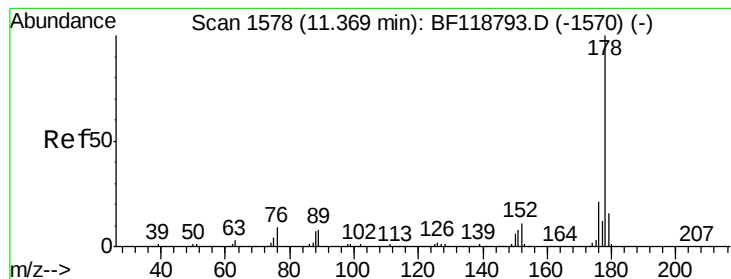
Tot Ion:188 Resp: 955313
Ion Ratio Lower Upper
188 100
94 8.5 7.9 11.9
80 8.6 8.4 12.6



#67
4-Bromophenyl-phenylether
Concen: 3.486 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.25 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Tgt Ion:248 Resp: 39395
Ion Ratio Lower Upper
248 100
250 190.1 77.6 116.4#
141 436.8 54.4 81.6#





#71

Phenanthrene

Concen: 7.064 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.02 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

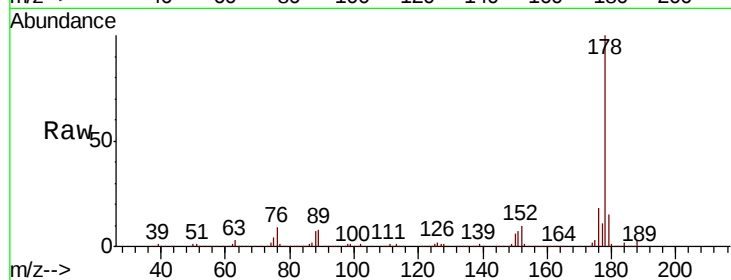
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 332045

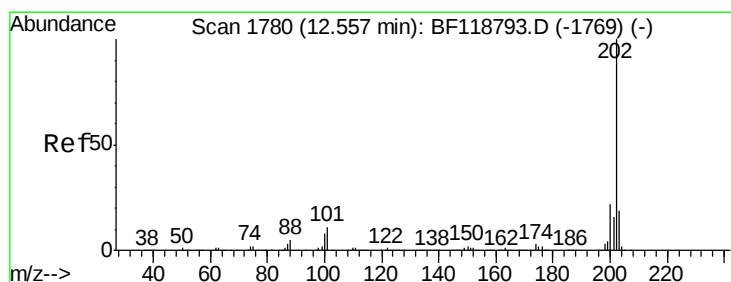
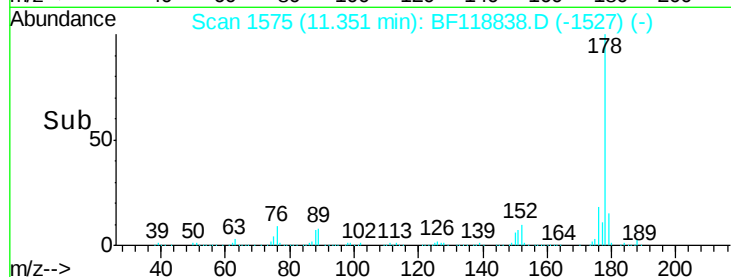
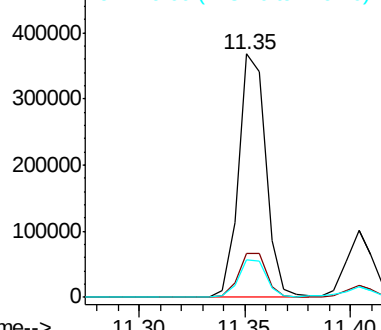
Ion	Ratio	Lower	Upper
178	100		
176	18.2	16.6	24.8
179	15.3	13.2	19.8



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: 10.821 ng

RT: 12.54 min Scan# 1777

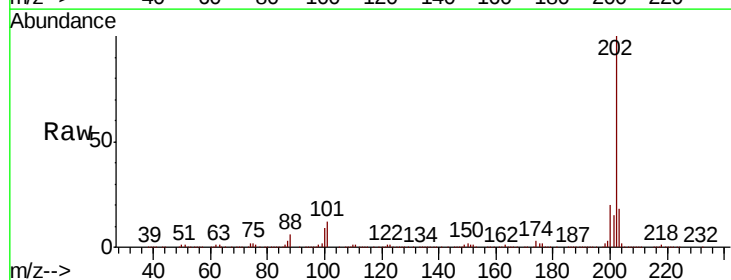
Delta R.T. -0.02 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Tgt Ion:202 Resp: 555296

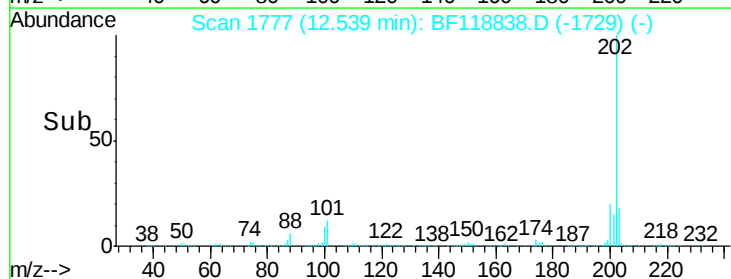
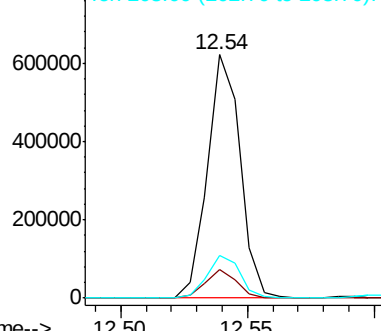
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	31.0
203	17.7	0.0	38.7

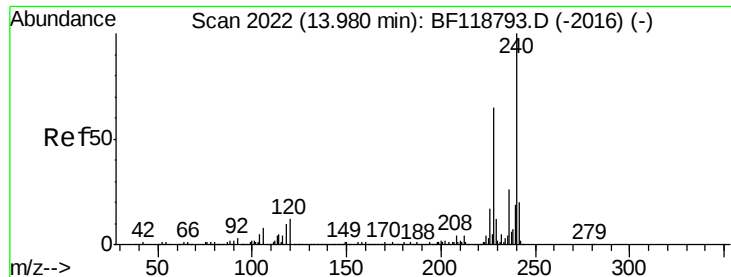


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Instrument :

BNA_F

ClientSampleID :

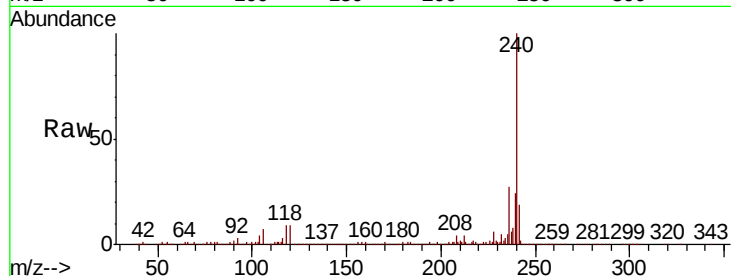
Tot Ion:240 Resp: 688008

Ion Ratio Lower Upper

240 100

120 9.4 9.4 14.0

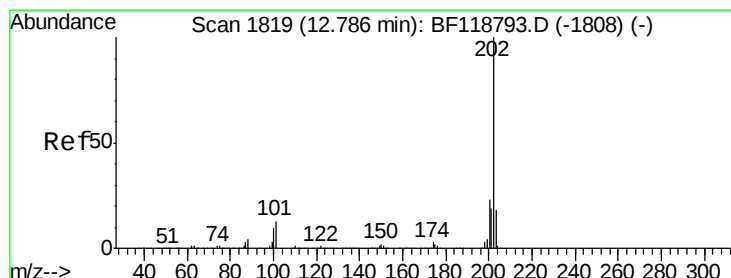
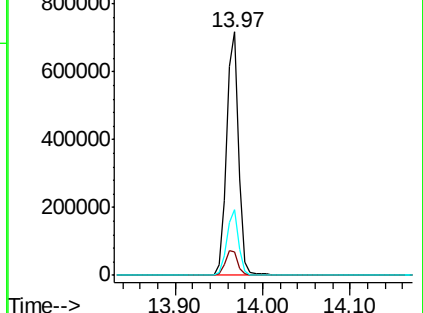
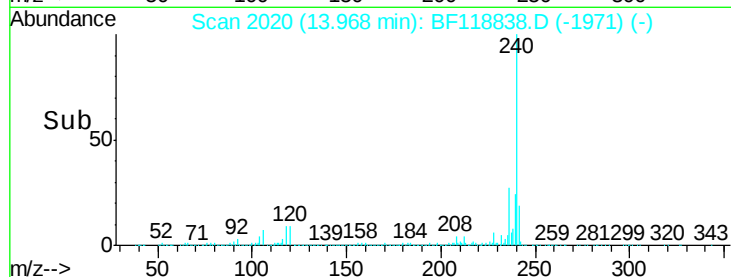
236 26.8 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 10.613 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

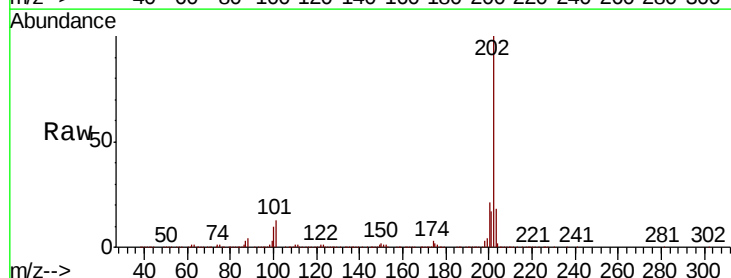
Tgt Ion:202 Resp: 500937

Ion Ratio Lower Upper

202 100

200 20.7 18.2 27.2

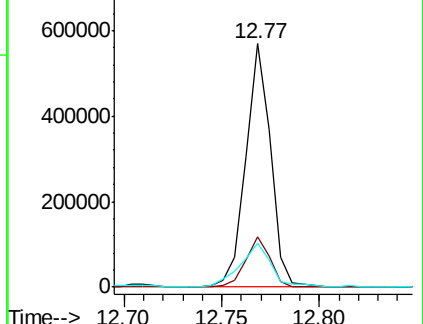
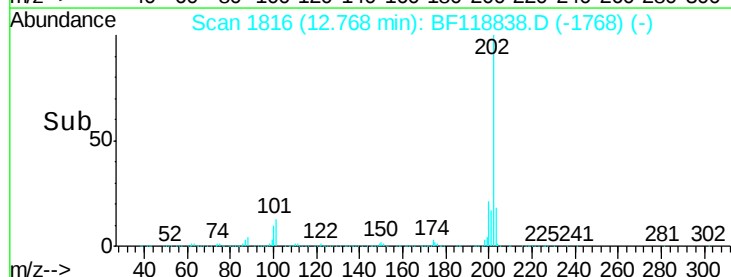
203 17.9 14.8 22.2

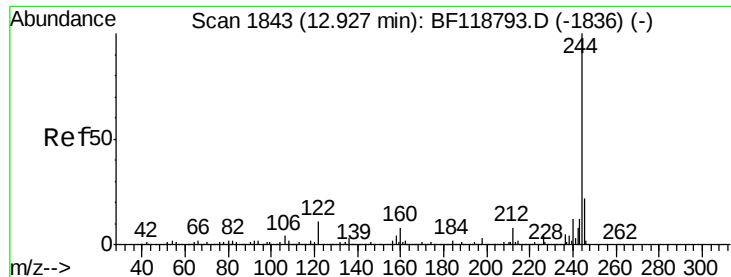


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 72.249 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Instrument :

BNA_F

ClientSampleId :

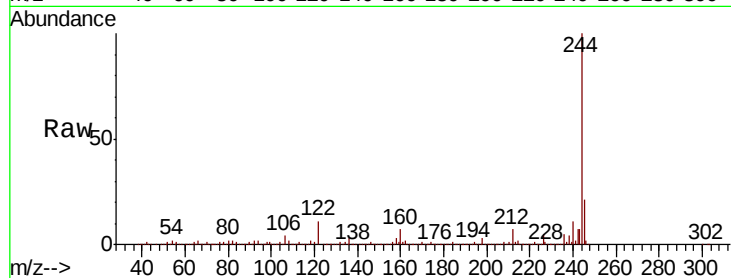
Tot Ion:244 Resp: 2420018

Ion Ratio Lower Upper

244 100

212 7.4 6.5 9.7

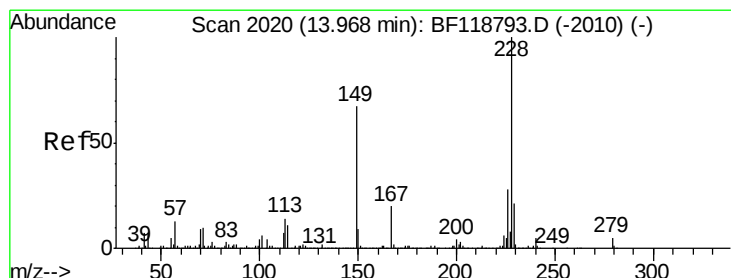
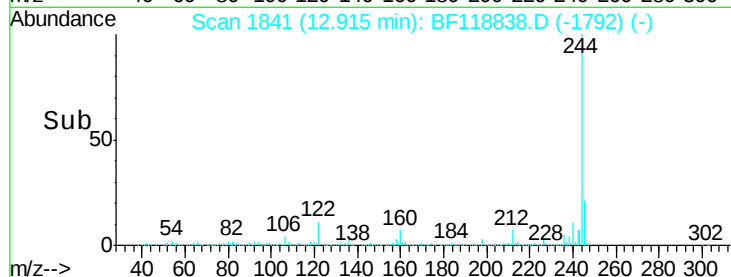
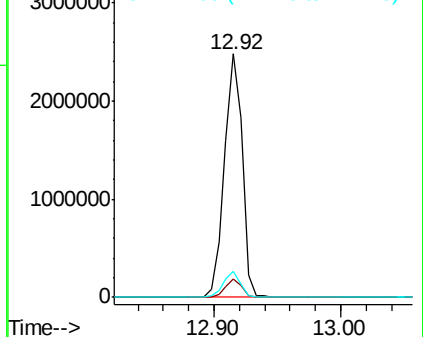
122 10.9 8.9 13.3



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 6.123 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

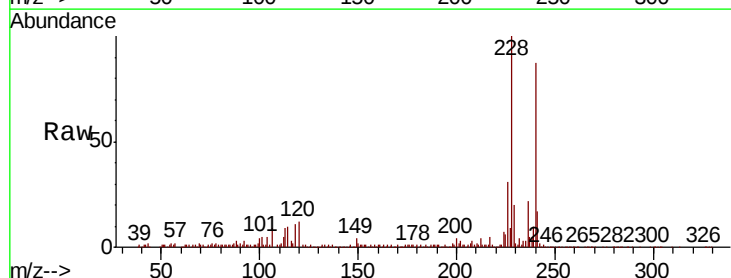
Tgt Ion:228 Resp: 250671

Ion Ratio Lower Upper

228 100

226 31.0 22.7 34.1

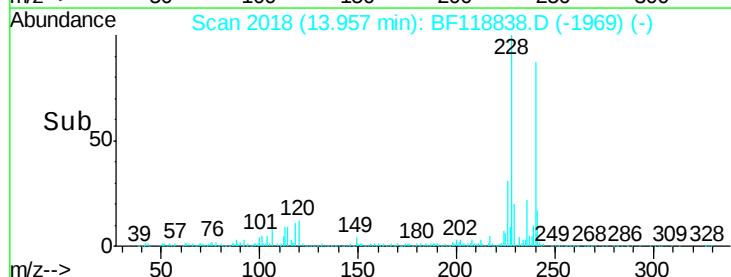
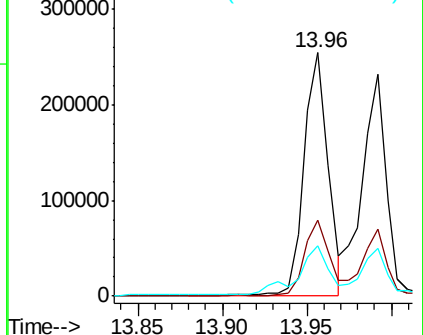
229 20.4 16.6 25.0

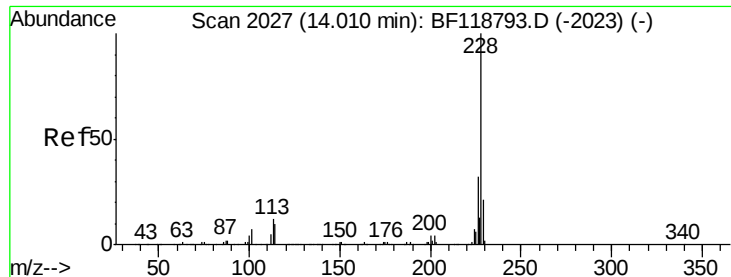


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

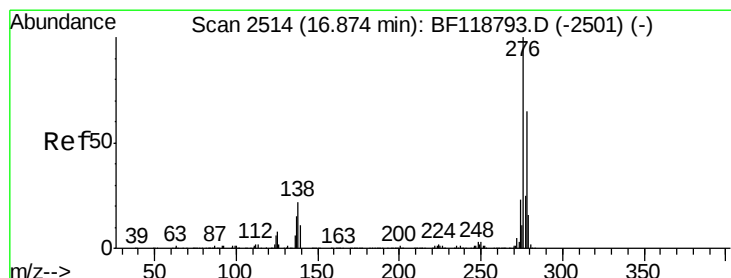
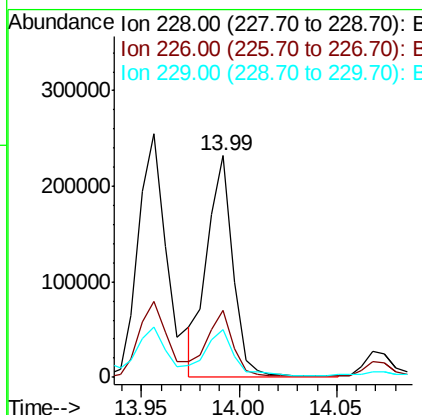
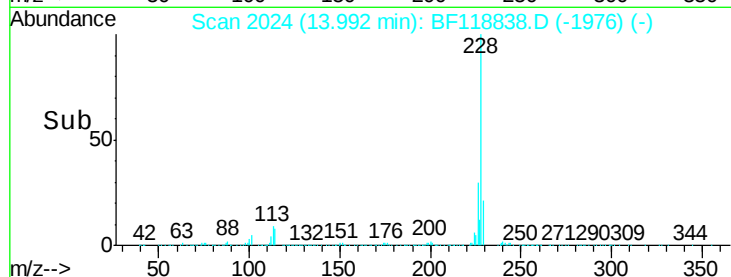
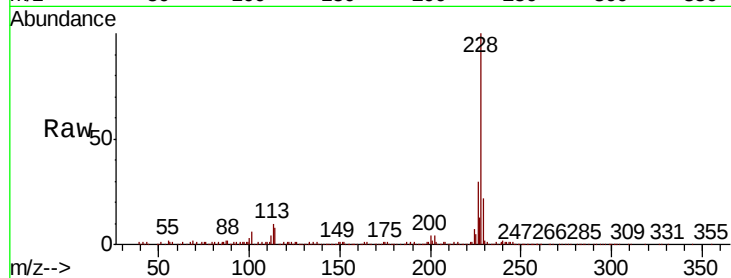




#83
Chrysene
Concen: 5.180 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.02 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

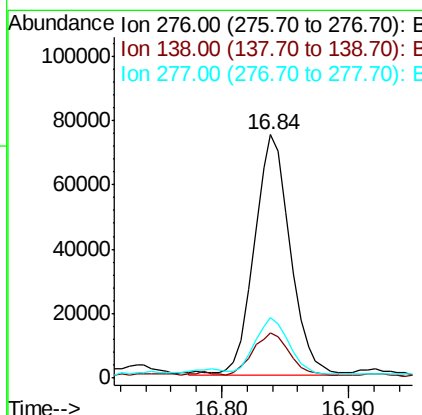
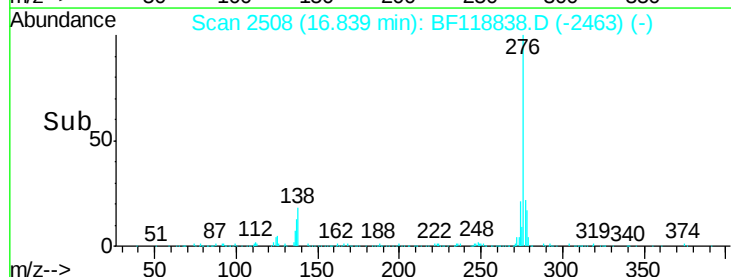
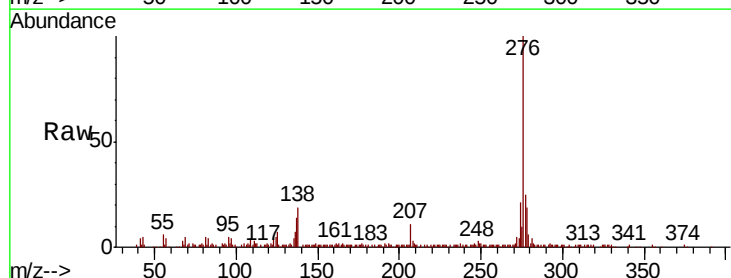
Instrument :
BNA_F
ClientSampleId :

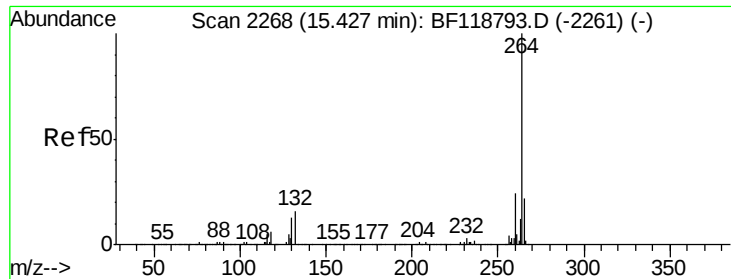
Tot Ion:228 Resp: 212832
Ion Ratio Lower Upper
228 100
226 30.2 25.4 38.0
229 21.8 16.9 25.3



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.584 ng
RT: 16.84 min Scan# 2508
Delta R.T. -0.04 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Tgt Ion:276 Resp: 147972
Ion Ratio Lower Upper
276 100
138 18.7 18.3 27.5
277 22.3 20.2 30.4

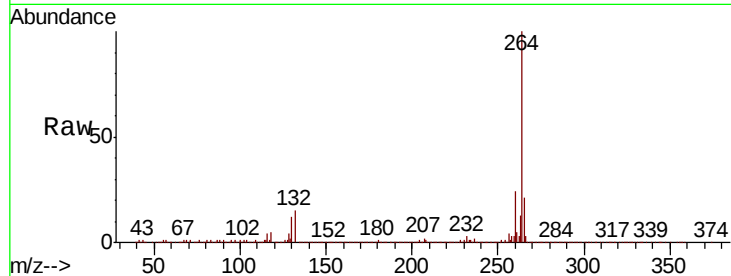




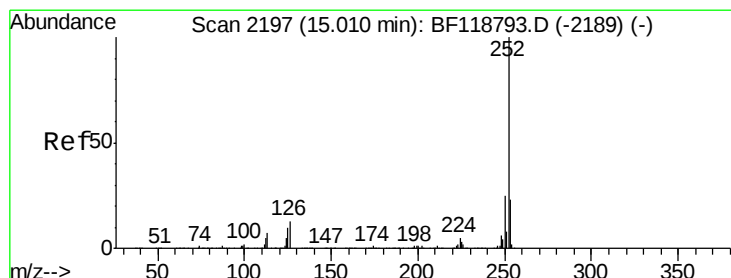
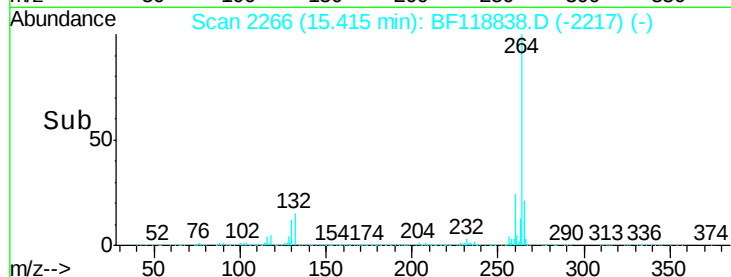
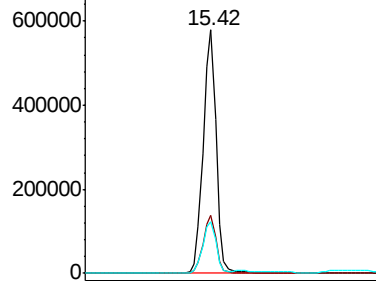
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.01 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 727814
Ion Ratio Lower Upper
264 100
260 23.6 19.1 28.7
265 21.3 17.2 25.8

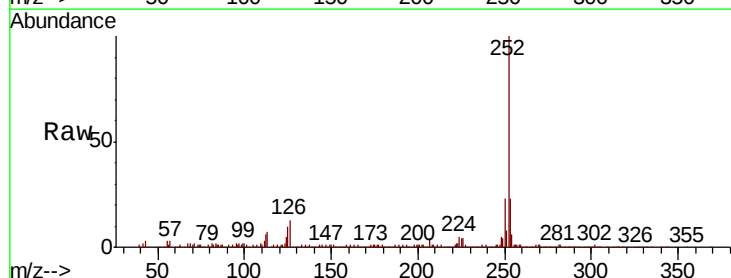


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

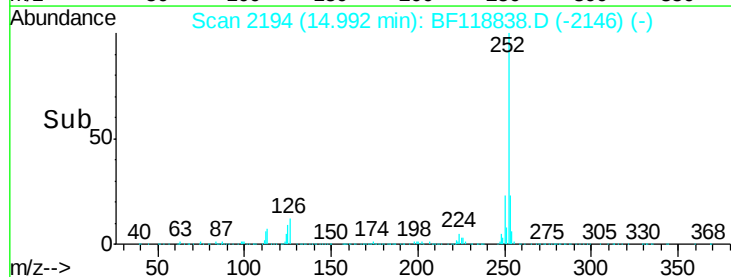
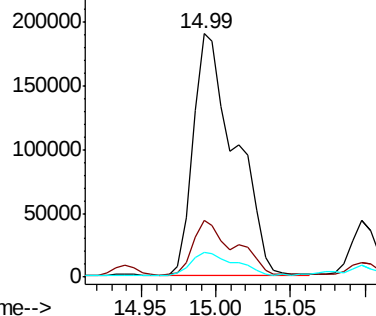


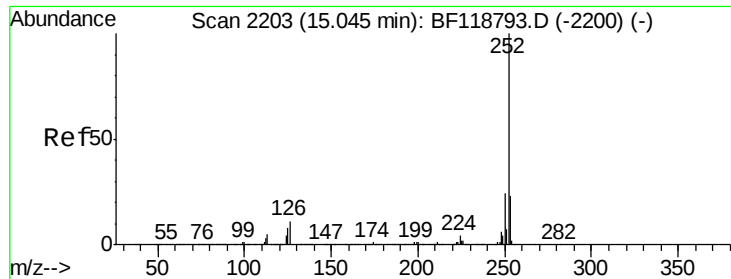
#88
Benzo(b)fluoranthene
Concen: 8.311 ng
RT: 14.99 min Scan# 2194
Delta R.T. -0.02 min
Lab File: BF118838.D
Acq: 6 Feb 2020 15:46

Tgt Ion:252 Resp: 375323
Ion Ratio Lower Upper
252 100
253 23.5 18.4 27.6
125 10.3 8.1 12.1



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: 9.544 ng

RT: 14.99 min Scan# 2194

Delta R.T. -0.05 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Instrument :

BNA_F

ClientSampleId :

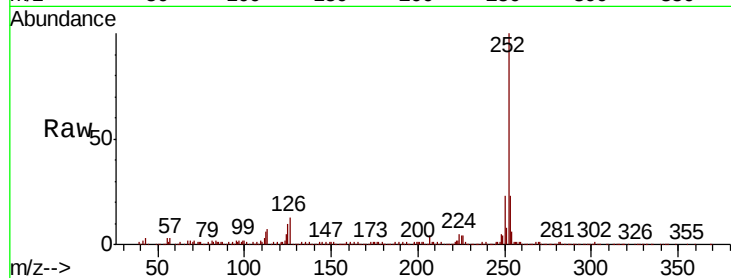
Tot Ion:252 Resp: 375323

Ion Ratio Lower Upper

252 100

253 23.5 18.2 27.4

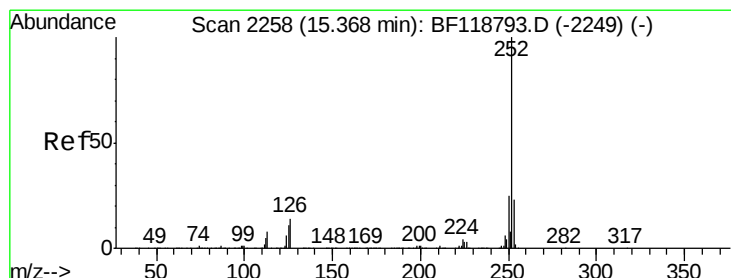
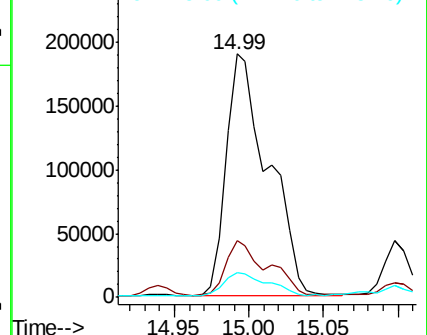
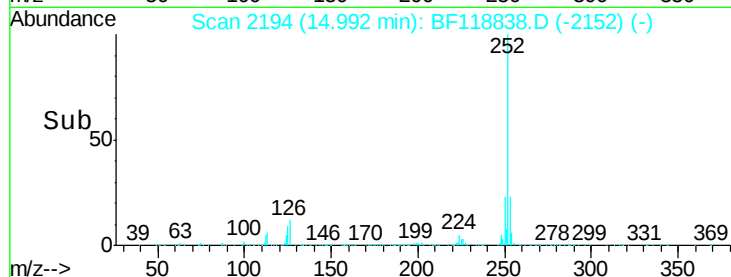
125 10.3 7.0 10.6



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



#90

Benzo(a)pyrene

Concen: 5.655 ng

RT: 15.35 min Scan# 2255

Delta R.T. -0.02 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

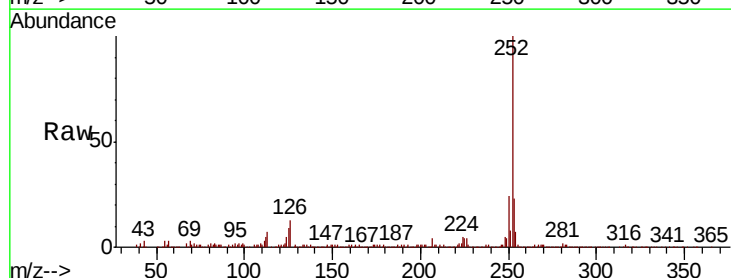
Tgt Ion:252 Resp: 218551

Ion Ratio Lower Upper

252 100

253 22.8 18.1 27.1

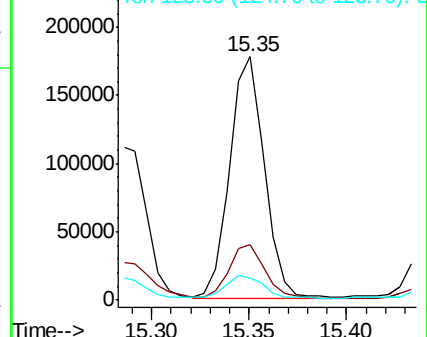
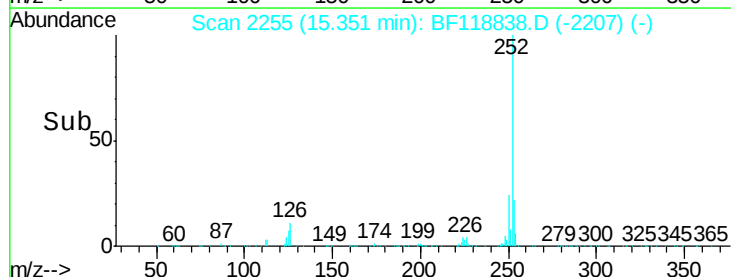
125 9.3 8.7 13.1

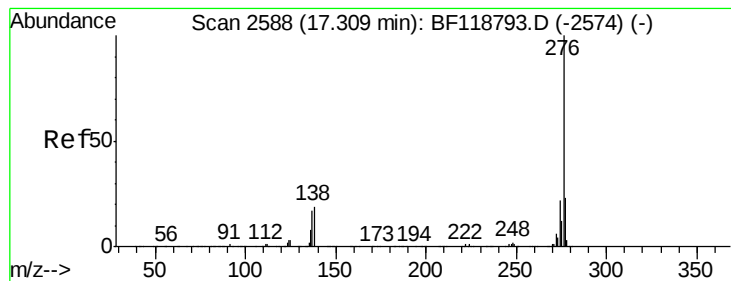


Abundance Ion 252.00 (251.70 to 252.70): E

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: 4.290 ng

RT: 17.27 min Scan# 2582

Delta R.T. -0.04 min

Lab File: BF118838.D

Acq: 6 Feb 2020 15:46

Instrument :

BNA_F

ClientSampleId :

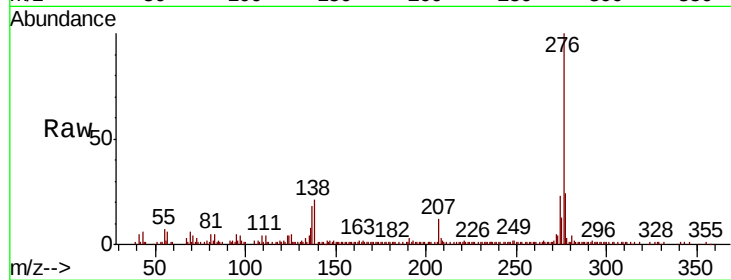
Tot Ion:276 Resp: 141543

Ion Ratio Lower Upper

276 100

277 24.0 18.7 28.1

138 20.8 15.4 23.2



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

