

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP072120\
 Data File : BP002818.D
 Acq On : 21 Jul 2020 17:28
 Operator : CG/JU
 Sample : L3360-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SP-3

Quant Time: Jul 21 18:31:19 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP071020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 13 10:54:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	115442	20.00	ng	0.00
21) Naphthalene-d8	10.32	136	425602	20.00	ng	-0.01
39) Acenaphthene-d10	14.20	164	266681	20.00	ng	-0.01
64) Phenanthrene-d10	16.96	188	606547	20.00	ng	0.00
76) Chrysene-d12	21.07	240	586094	20.00	ng	0.00
86) Perylene-d12	23.26	264	639139	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	110976	16.22	ng	0.00
7) Phenol-d6	6.75	99	441870	45.25	ng	0.00
23) Nitrobenzene-d5	8.69	82	302209	37.98	ng	-0.01
42) 2,4,6-Tribromophenol	15.71	330	32293	11.60	ng	0.00
45) 2-Fluorobiphenyl	12.81	172	695034	40.32	ng	-0.01
79) Terphenyl-d14	19.55	244	1026830	40.17	ng	0.00

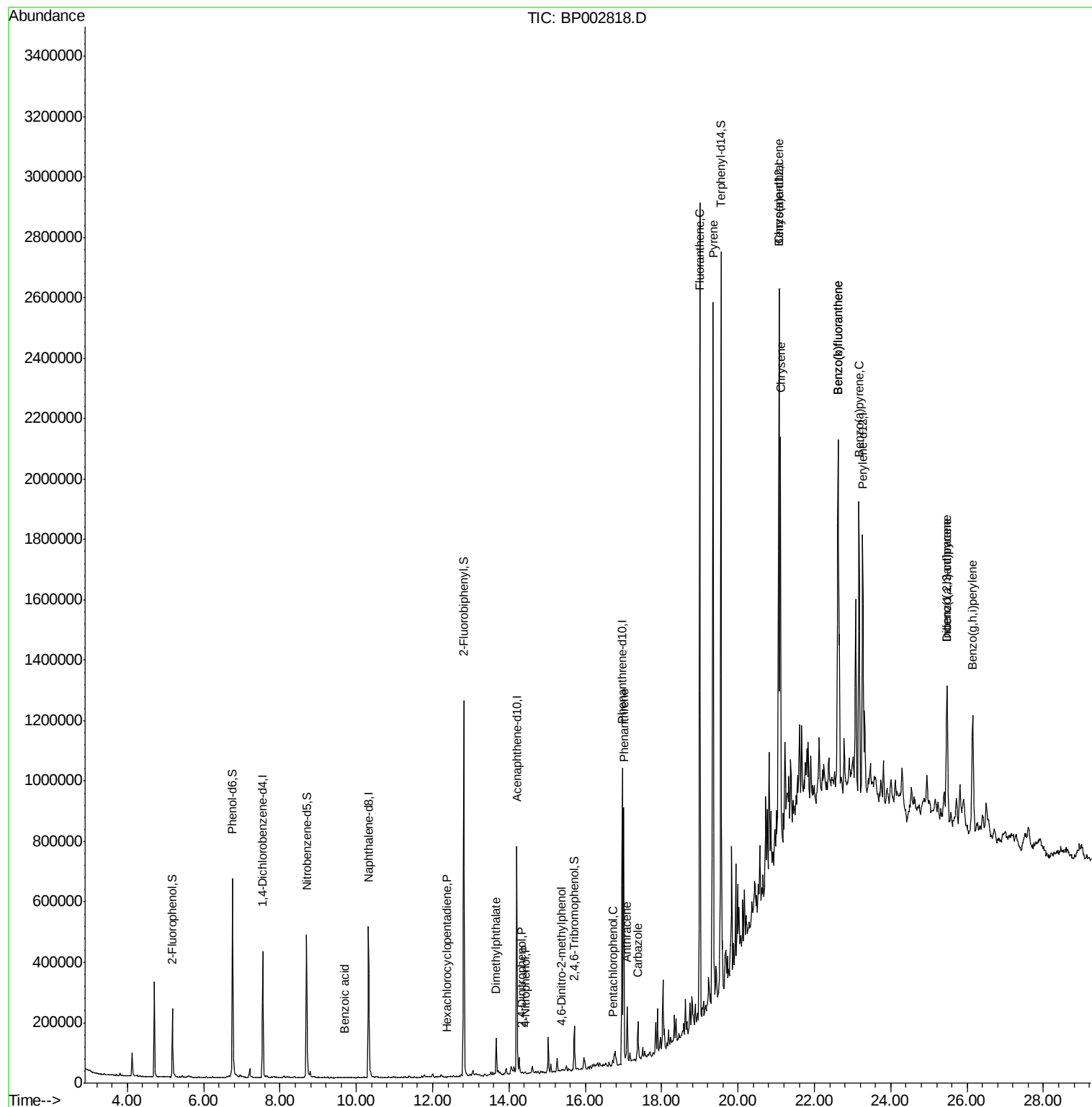
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Benzoic acid	9.69	122	30	7.068	ng	# 1
41) Hexachlorocyclopentadiene	12.37	237	23	7.440	ng	83
50) Dimethylphthalate	13.66	163	89222	4.387	ng	98
54) 2,4-Dinitrophenol	14.32	184	20	11.381	ng	# 1
56) 4-Nitrophenol	14.43	139	198	5.019	ng	# 52
65) 4,6-Dinitro-2-methylphenol	15.35	198	17	5.271	ng	# 1
70) Pentachlorophenol	16.73	266	26	7.448	ng	97
71) Phenanthrene	17.00	178	518732	15.795	ng	99
72) Anthracene	17.09	178	120425	3.737	ng	98
73) Carbazole	17.37	167	90206	2.852	ng	99
75) Fluoranthene	18.99	202	1614216	42.420	ng	98
78) Pyrene	19.35	202	1426361	35.248	ng	99
81) Benzo(a)anthracene	21.06	228	790546	20.837	ng	98
83) Chrysene	21.11	228	772516	21.391	ng	97
87) Indeno(1,2,3-cd)pyrene	25.47	276	473901	10.259	ng	# 92
88) Benzo(b)fluoranthene	22.62	252	1270935	32.024	ng	97
89) Benzo(k)fluoranthene	22.62	252	1270935	32.512	ng	98
90) Benzo(a)pyrene	23.17	252	663437	17.641	ng	97
91) Dibenzo(a,h)anthracene	25.47	278	123577	3.317	ng	# 74
92) Benzo(a,h,i)perylene	26.14	276	469746	12.436	ng	95

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

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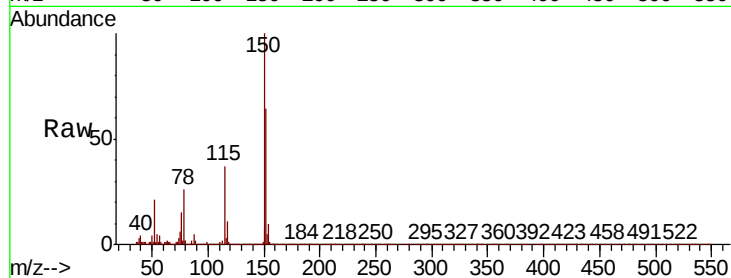


#1

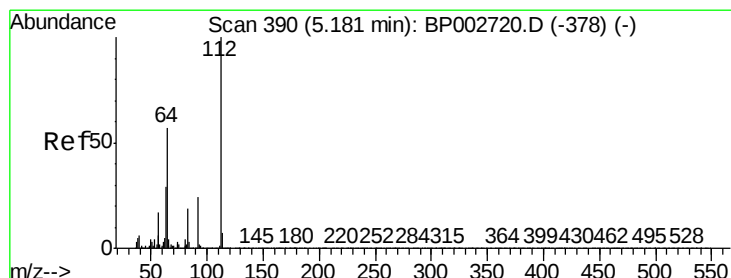
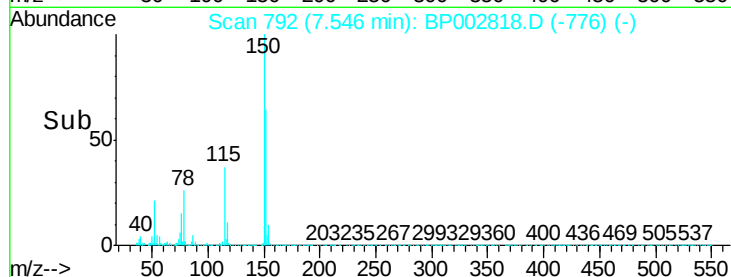
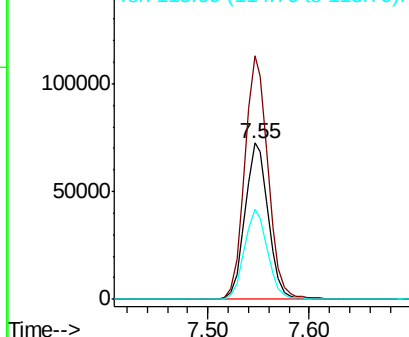
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.55 min Scan# 792
Delta R.T. -0.01 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

Instrument :
BNA_P
ClientSampled :
SP-3

Tot Ion	152	Resp	115442
Ion	Ratio	Lower	Upper
152	100		
150	156.1	123.7	185.5
115	58.0	47.2	70.8



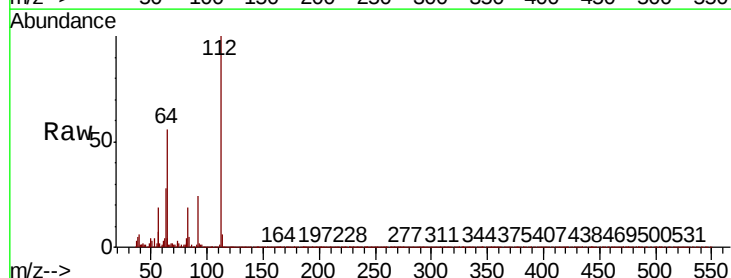
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



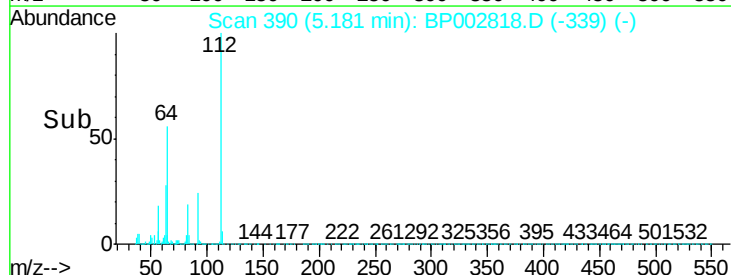
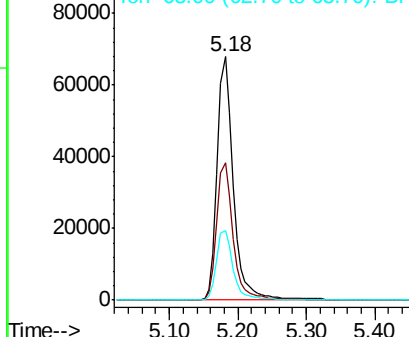
#5

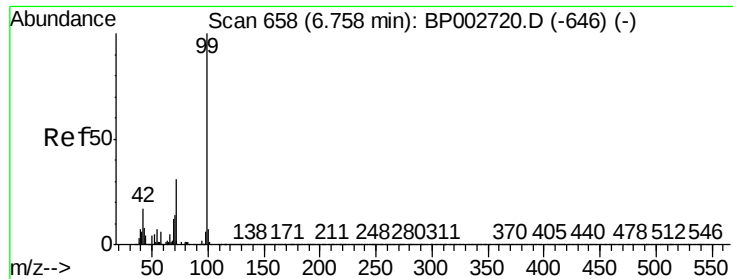
2-Fluorophenol
Concen: 16.219 ng
RT: 5.18 min Scan# 390
Delta R.T. 0.00 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

Tgt Ion	112	Resp	110976
Ion	Ratio	Lower	Upper
112	100		
64	56.3	45.6	68.4
63	28.4	23.5	35.3



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BP0
Ion 63.00 (62.70 to 63.70): BP0





#7

Phenol-d6

Concen: 45.250 ng

RT: 6.75 min Scan# 657

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

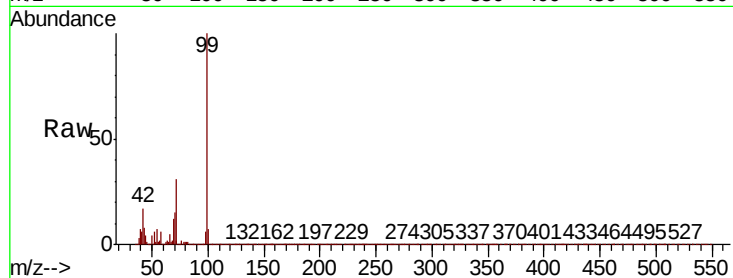
Tot Ion: 99 Resp: 441870

Ion Ratio Lower Upper

99 100

42 16.9 13.4 20.2

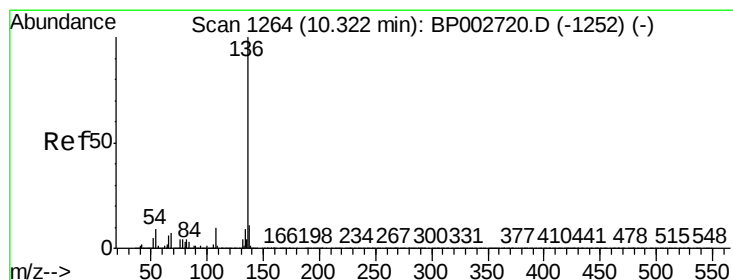
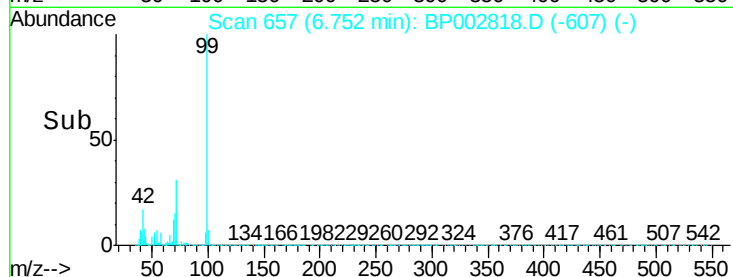
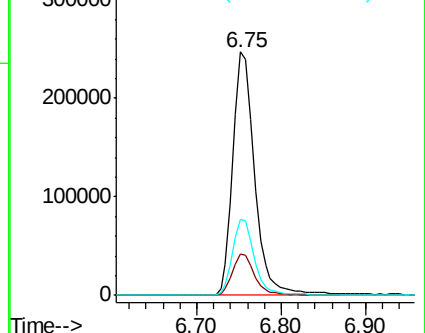
71 31.4 24.6 36.8



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.32 min Scan# 1263

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Tgt Ion: 136 Resp: 425602

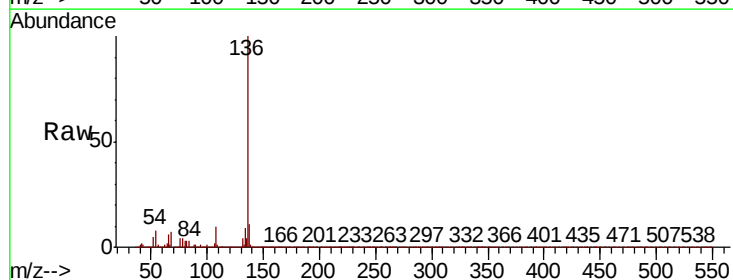
Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

54 8.2 6.9 10.3

68 6.9 5.7 8.5

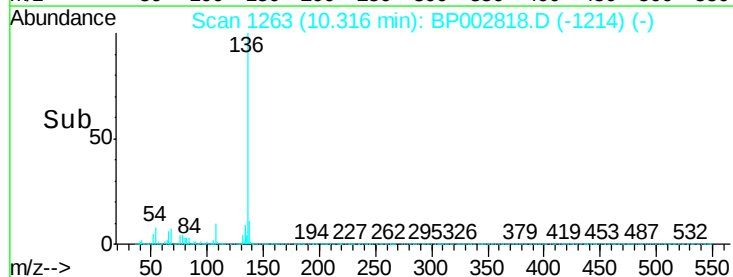
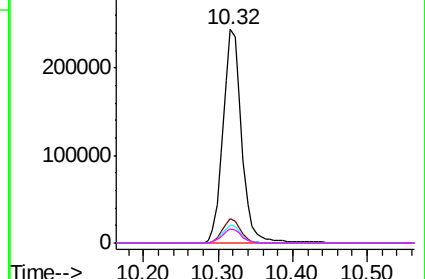


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

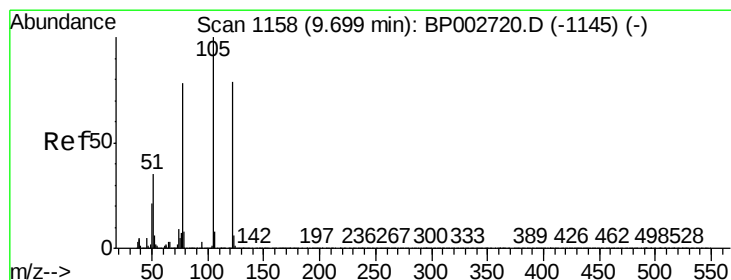
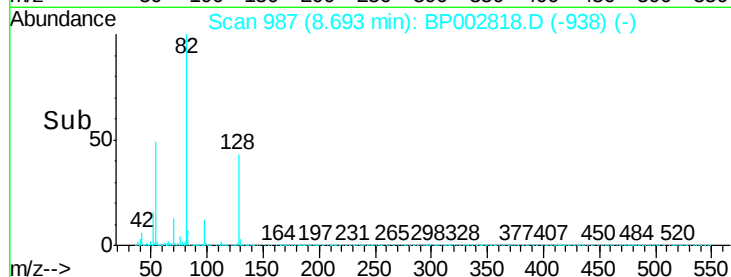
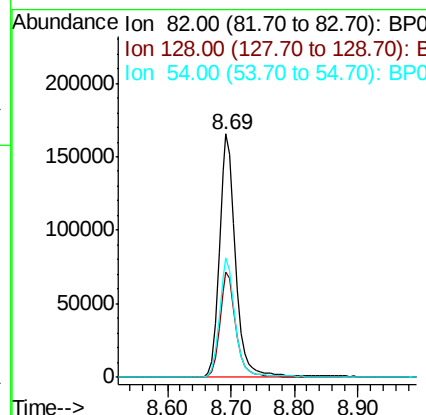
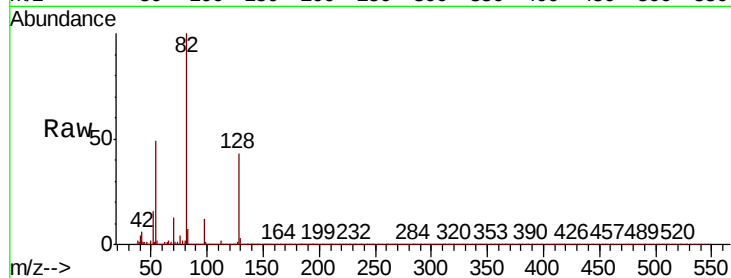




#23
 Nitrobenzene-d5
 Concen: 37.977 ng
 RT: 8.69 min Scan# 987
 Delta R.T. -0.01 min
 Lab File: BP002818.D
 Acq: 21 Jul 2020 17:28

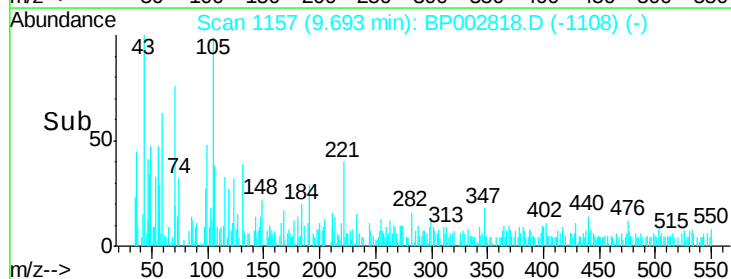
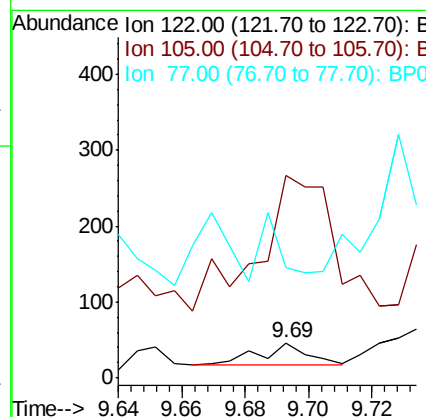
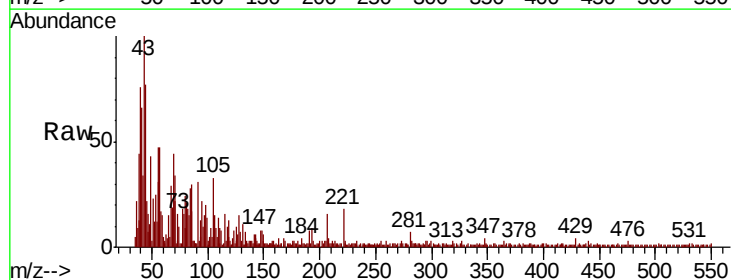
Instrument :
 BNA_P
 ClientSampleId :
 SP-3

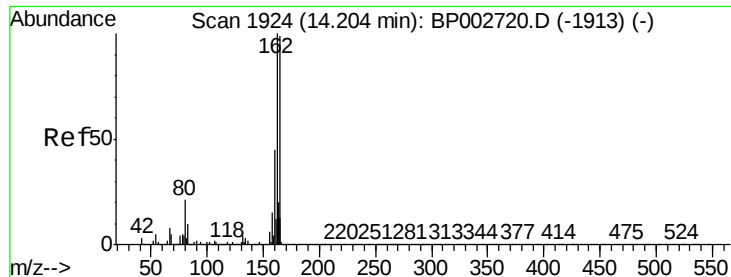
Tot Ion	82	Resp	302209
Ion Ratio	Lower	Upper	
82	100		
128	43.3	33.8	50.8
54	49.2	38.8	58.2



#32
 Benzoic acid
 Concen: 7.068 ng
 RT: 9.69 min Scan# 1157
 Delta R.T. -0.01 min
 Lab File: BP002818.D
 Acq: 21 Jul 2020 17:28

Tgt Ion	122	Resp	30
Ion Ratio	Lower	Upper	
122	100		
105	578.3	105.4	145.4#
77	317.4	78.5	118.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.20 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

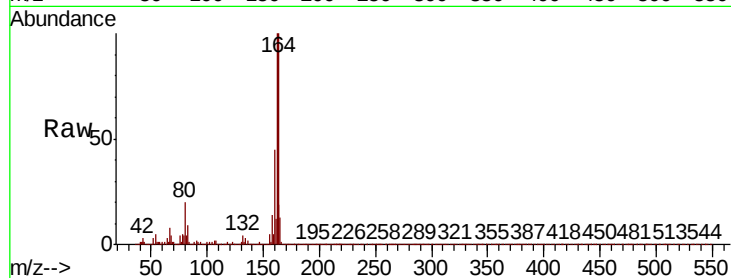
Tot Ion:164 Resp: 266681

Ion Ratio Lower Upper

164 100

162 99.7 80.6 121.0

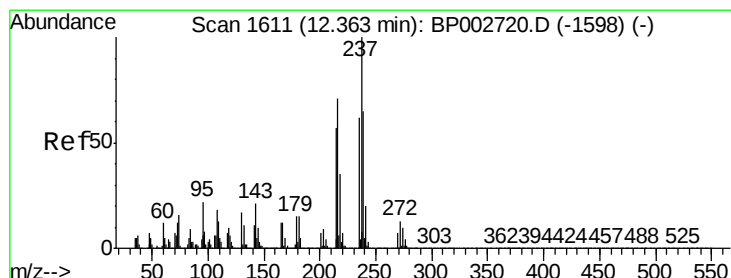
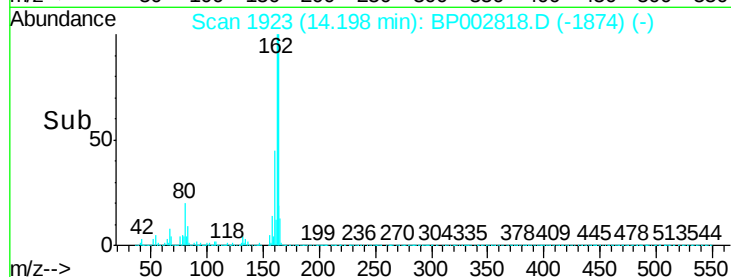
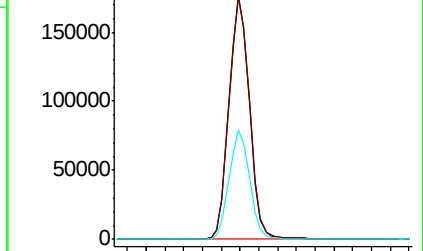
160 44.8 36.4 54.6



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



#41

Hexachlorocyclopentadiene

Concen: 7.440 ng

RT: 12.37 min Scan# 1612

Delta R.T. 0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

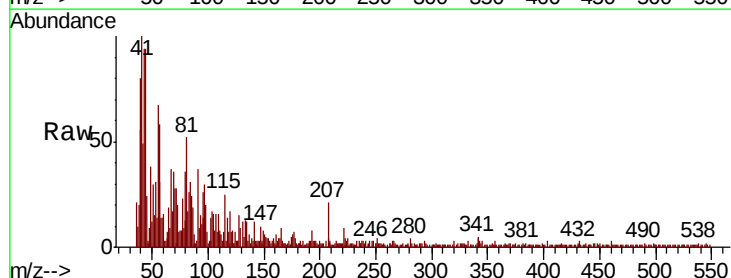
Tgt Ion:237 Resp: 23

Ion Ratio Lower Upper

237 100

235 72.7 42.3 82.3

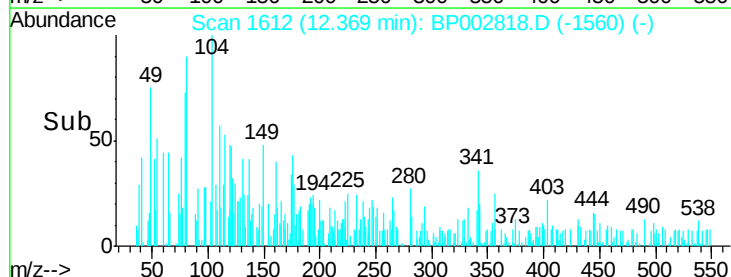
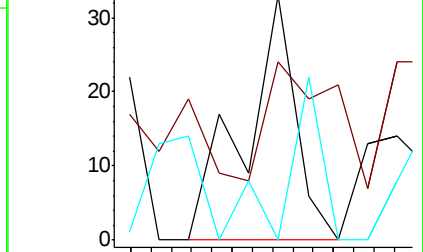
272 0.0 0.0 32.5

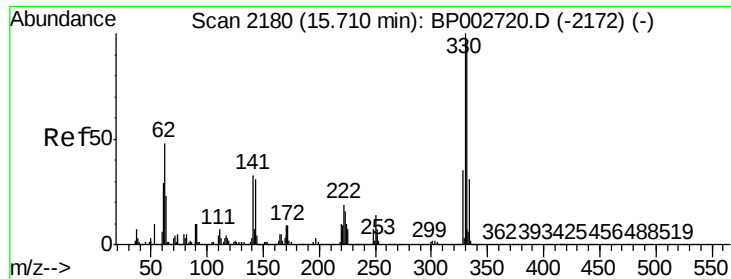


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

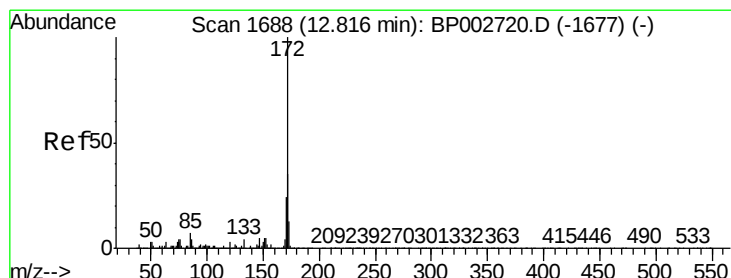
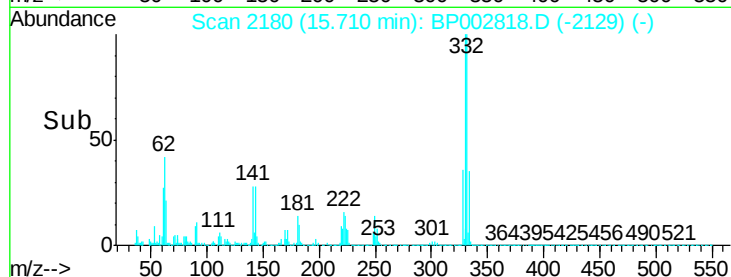
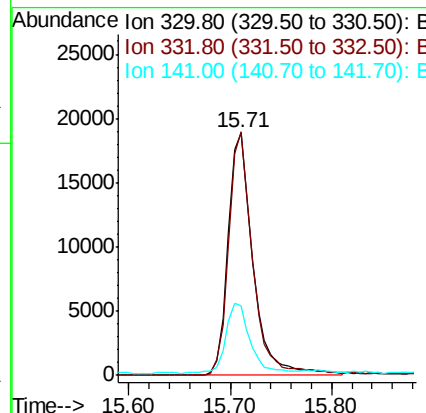
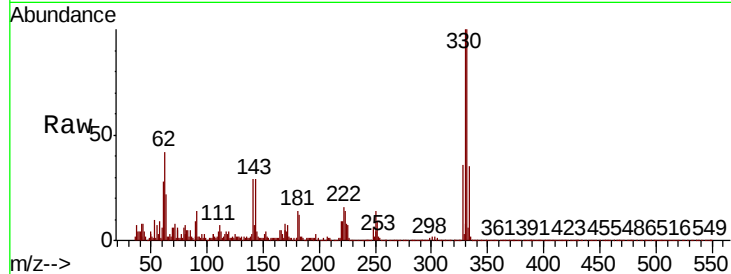




#42
2,4,6-Tribromophenol
Concen: 11.601 ng
RT: 15.71 min Scan# 2180
Delta R.T. 0.00 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

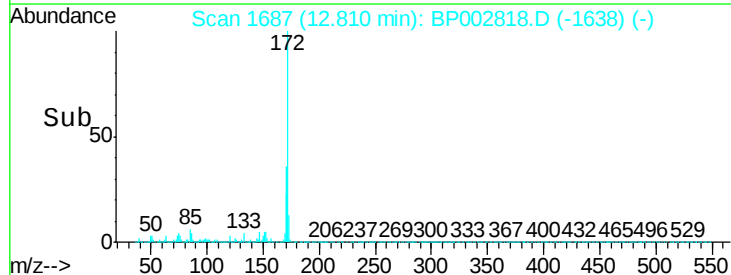
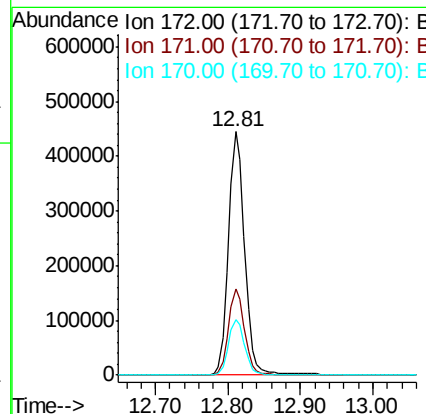
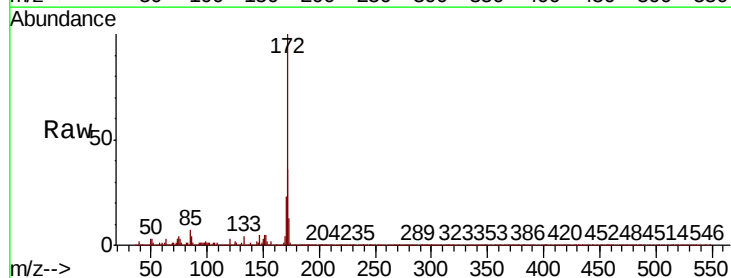
Instrument :
BNA_P
ClientSampled :
SP-3

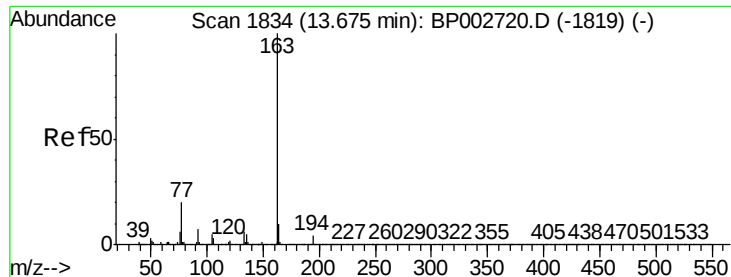
Tot Ion:330 Resp: 32293
Ion Ratio Lower Upper
330 100
332 97.3 76.5 114.7
141 28.1 28.8 43.2#



#45
2-Fluorobiphenyl
Concen: 40.318 ng
RT: 12.81 min Scan# 1687
Delta R.T. -0.01 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

Tgt Ion:172 Resp: 695034
Ion Ratio Lower Upper
172 100
171 35.6 28.1 42.1
170 23.0 19.3 28.9





#50

Dimethylphthalate

Concen: 4.387 ng

RT: 13.66 min Scan# 1832

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

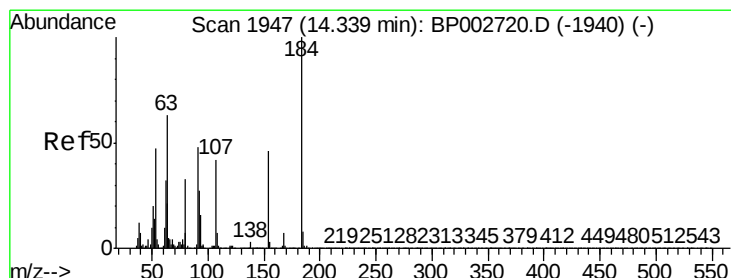
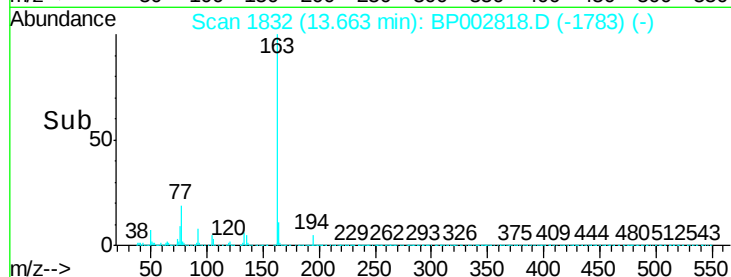
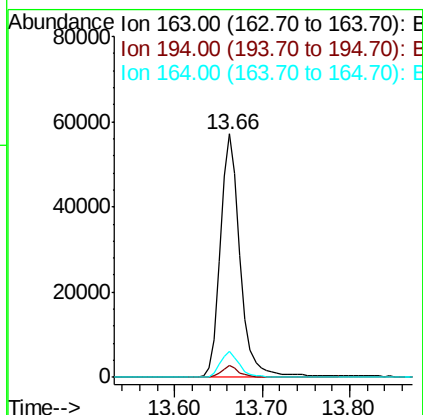
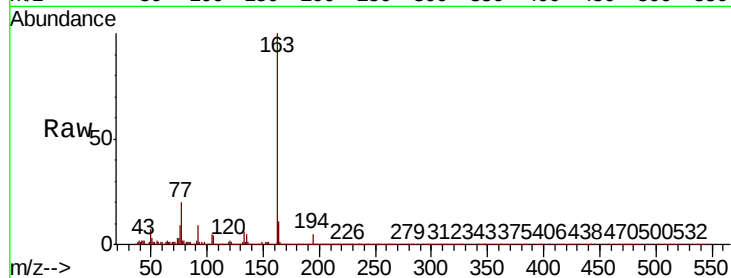
Tot Ion:163 Resp: 89222

Ion Ratio Lower Upper

163 100

194 4.7 3.4 5.2

164 10.6 7.8 11.8



#54

2,4-Dinitrophenol

Concen: 11.381 ng

RT: 14.32 min Scan# 1944

Delta R.T. -0.02 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

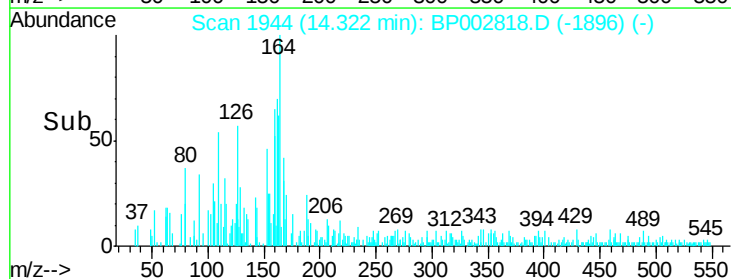
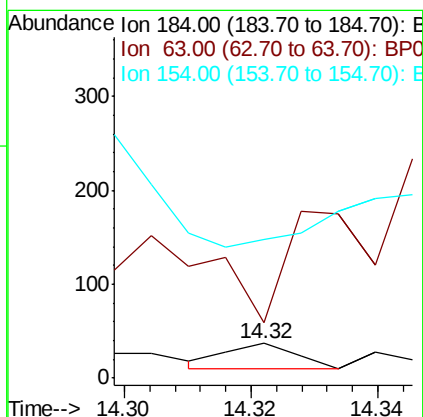
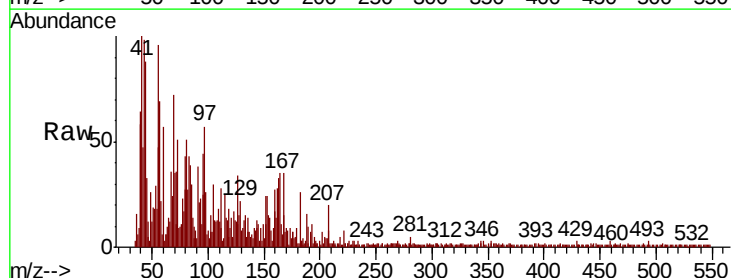
Tgt Ion:184 Resp: 20

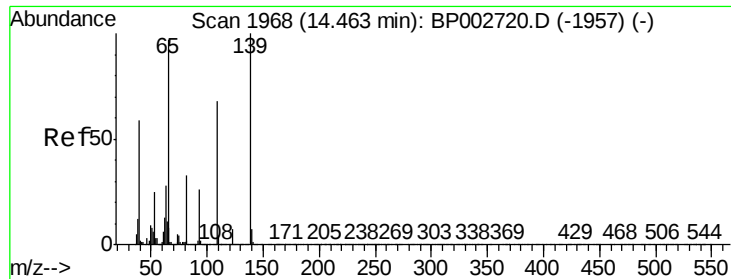
Ion Ratio Lower Upper

184 100

63 159.5 51.6 77.4#

154 397.3 45.0 67.6#





#56

4-Nitrophenol

Concen: 5.019 ng

RT: 14.43 min Scan# 1962

Delta R.T. -0.04 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

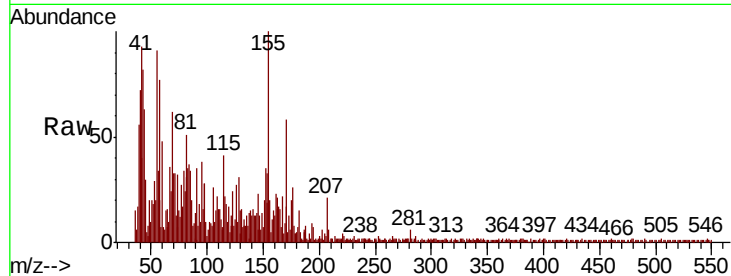
Tot Ion:139 Resp: 198

Ion Ratio Lower Upper

139 100

109 151.3 48.1 88.1#

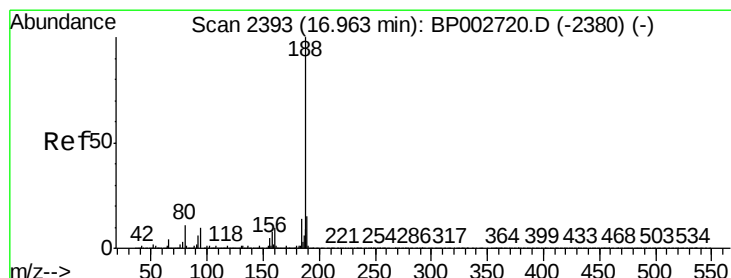
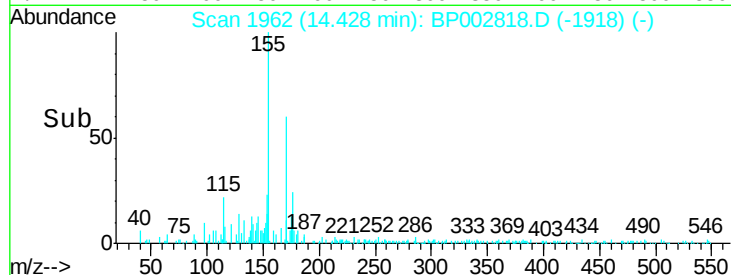
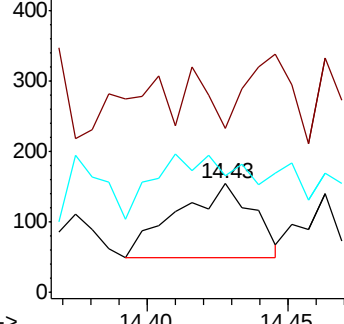
65 107.8 77.9 117.9



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BP



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.96 min Scan# 2393

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

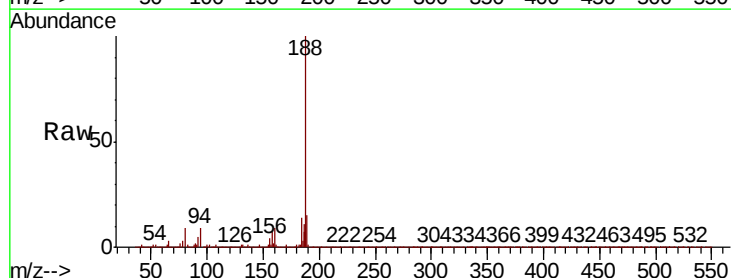
Tgt Ion:188 Resp: 606547

Ion Ratio Lower Upper

188 100

94 8.8 8.1 12.1

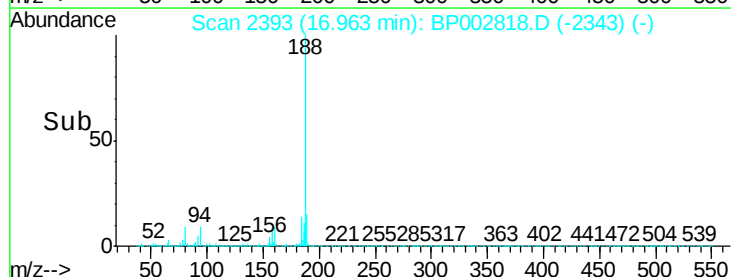
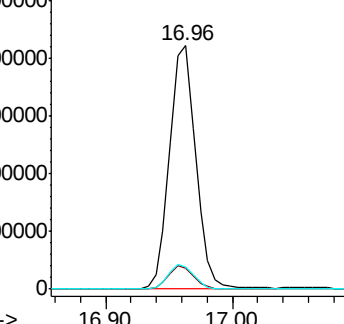
80 9.4 8.9 13.3

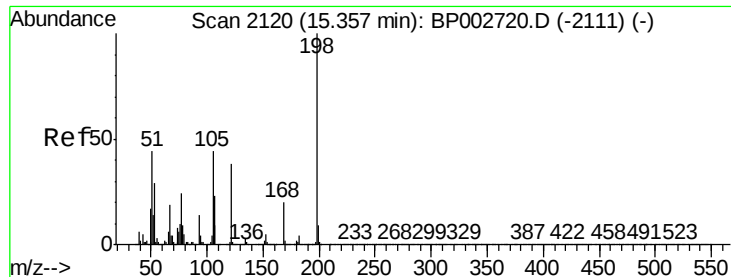


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP

Ion 80.00 (79.70 to 80.70): BP

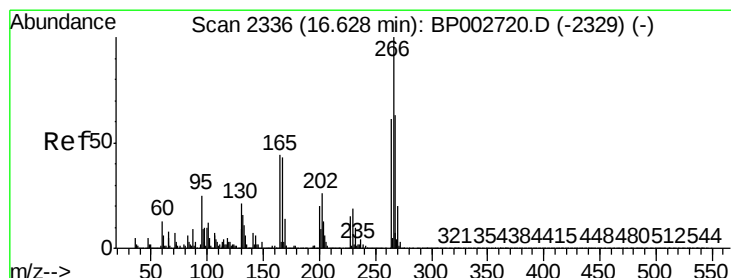
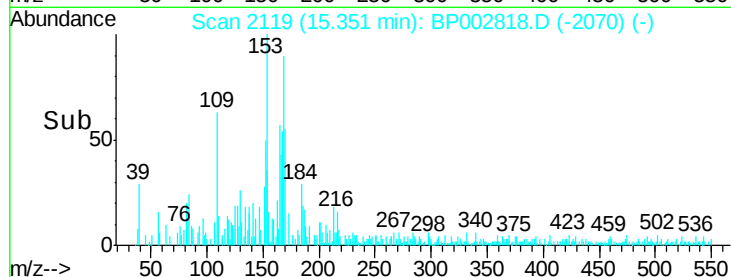
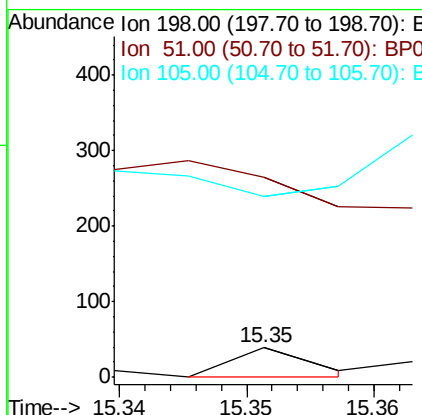
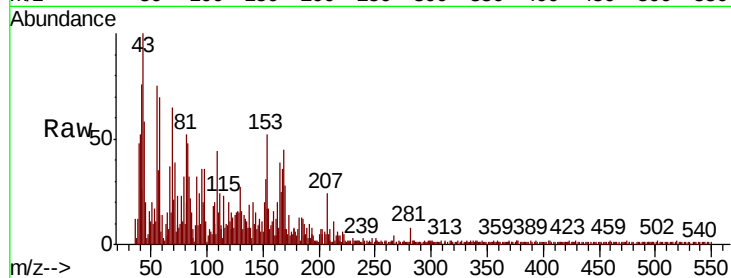




#65
4,6-Dinitro-2-methylphenol
Concen: 5.271 ng
RT: 15.35 min Scan# 2119
Delta R.T. -0.01 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

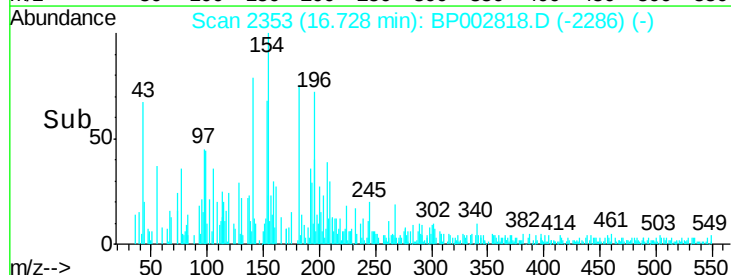
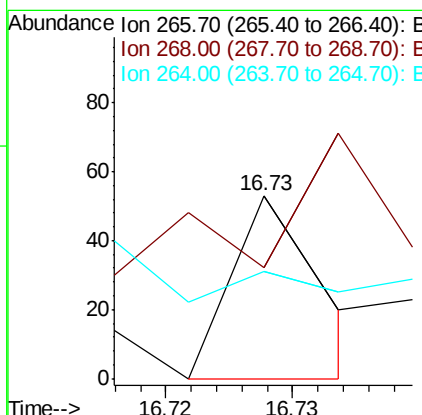
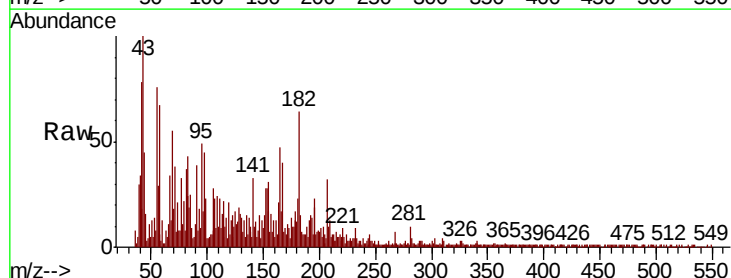
Instrument :
BNA_P
ClientSampleId :
SP-3

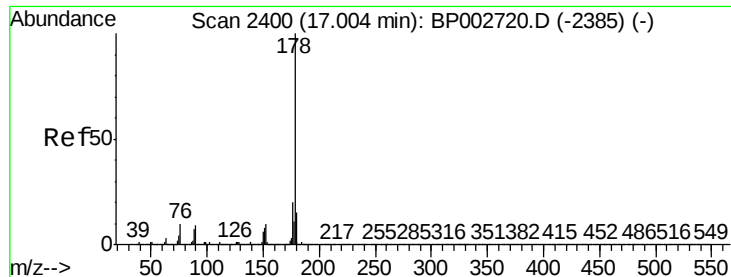
Tot Ion:198 Resp: 17
Ion Ratio Lower Upper
198 100
51 676.9 27.1 67.1#
105 612.8 24.9 64.9#



#70
Pentachlorophenol
Concen: 7.448 ng
RT: 16.73 min Scan# 2353
Delta R.T. 0.09 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

Tgt Ion:266 Resp: 26
Ion Ratio Lower Upper
266 100
268 60.4 50.6 75.8
264 58.5 48.6 72.8

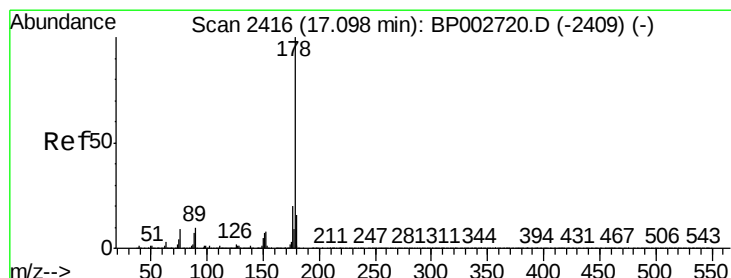
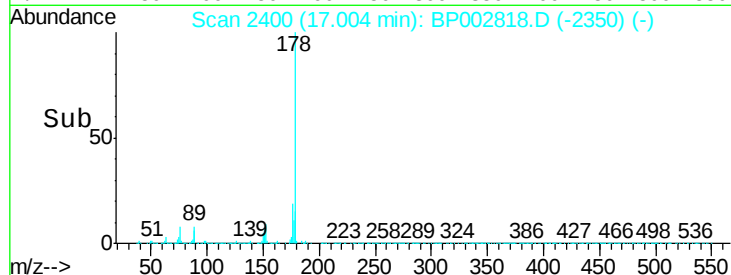
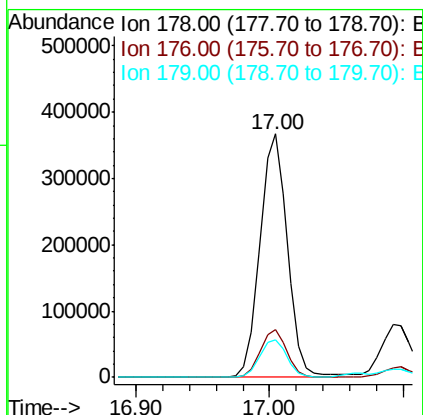
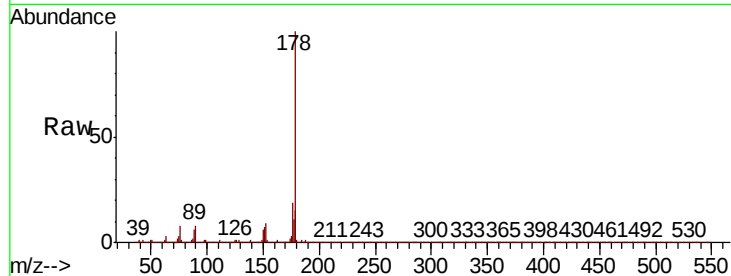




#71
Phenanthrene
Concen: 15.795 ng
RT: 17.00 min Scan# 2400
Delta R.T. -0.01 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

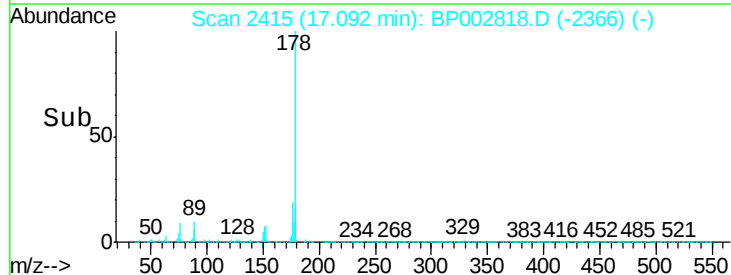
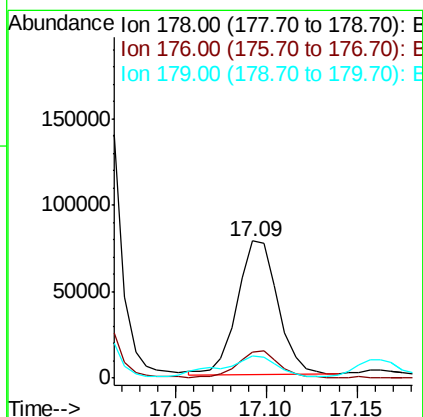
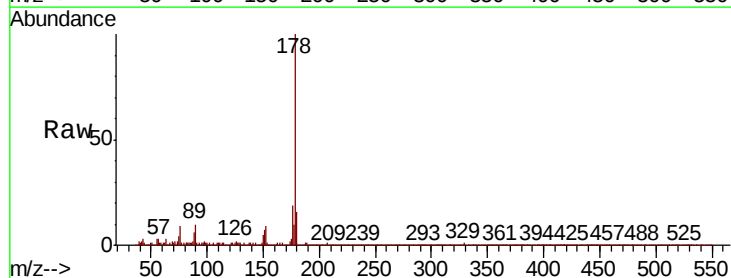
Instrument :
BNA_P
ClientSampled :
SP-3

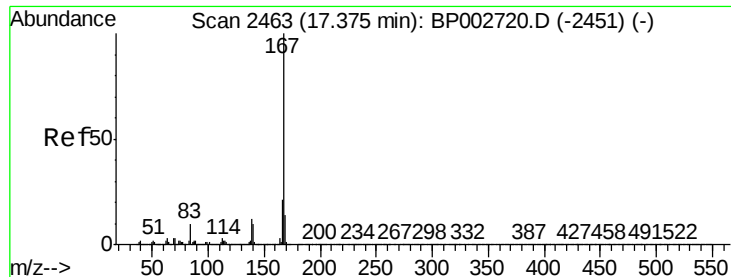
Tot Ion:178 Resp: 518732
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.2 12.3 18.5



#72
Anthracene
Concen: 3.737 ng
RT: 17.09 min Scan# 2415
Delta R.T. -0.01 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

Tgt Ion:178 Resp: 120425
Ion Ratio Lower Upper
178 100
176 18.7 15.6 23.4
179 16.4 12.6 19.0

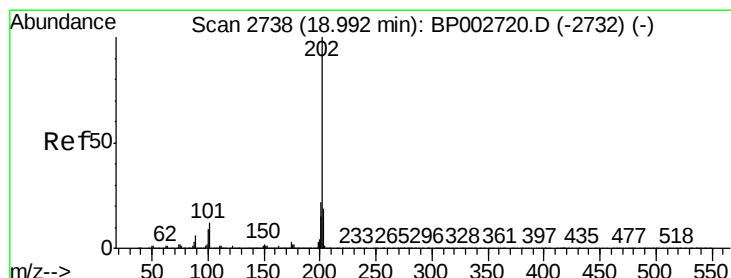
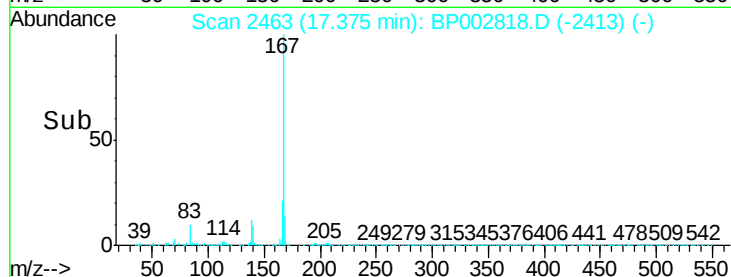
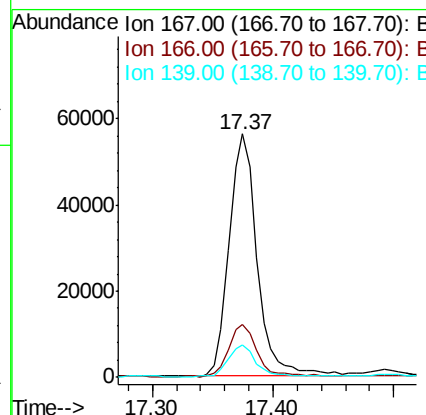
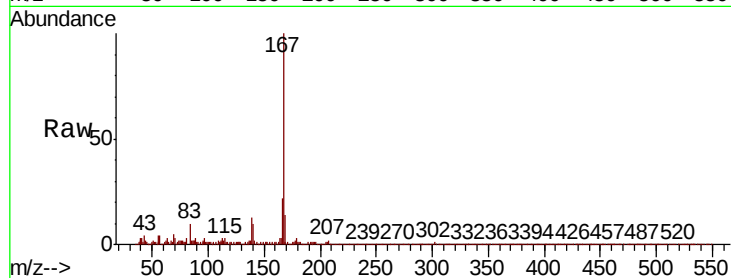




#73
 Carbazole
 Concen: 2.852 ng
 RT: 17.37 min Scan# 2463
 Delta R.T. -0.01 min
 Lab File: BP002818.D
 Acq: 21 Jul 2020 17:28

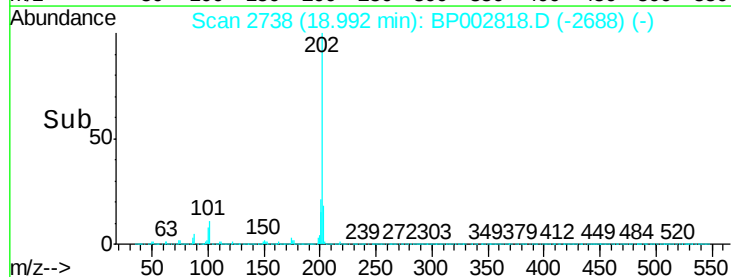
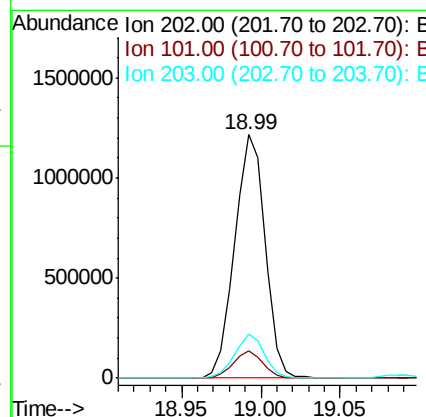
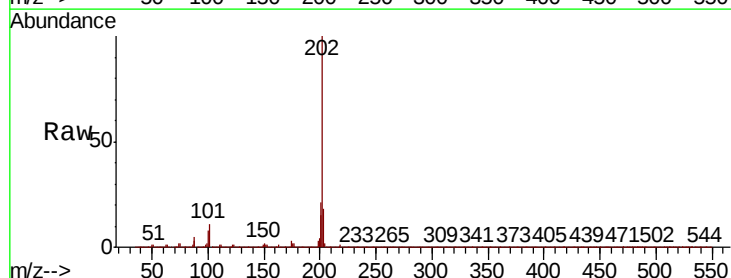
Instrument :
 BNA_P
 ClientSampleId :
 SP-3

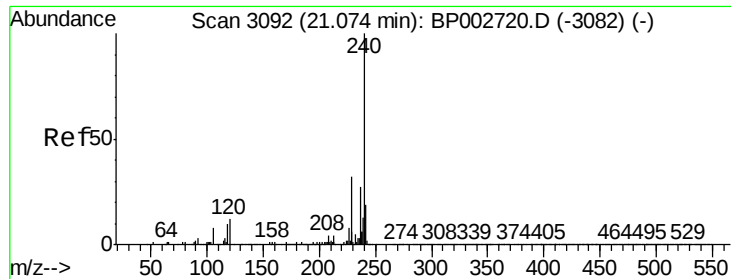
Tot Ion:167 Resp: 90206
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.1 25.7
 139 13.3 9.6 14.4



#75
 Fluoranthene
 Concen: 42.420 ng
 RT: 18.99 min Scan# 2738
 Delta R.T. -0.01 min
 Lab File: BP002818.D
 Acq: 21 Jul 2020 17:28

Tgt Ion:202 Resp: 1614216
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 32.5
 203 18.3 0.0 38.6

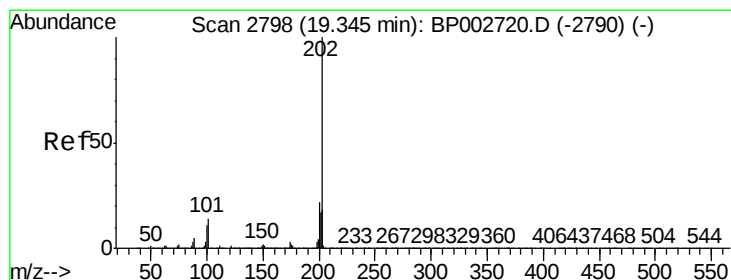
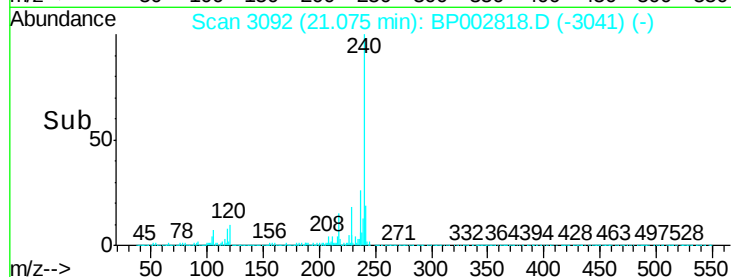
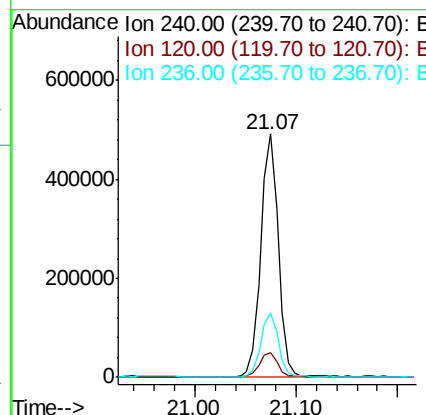
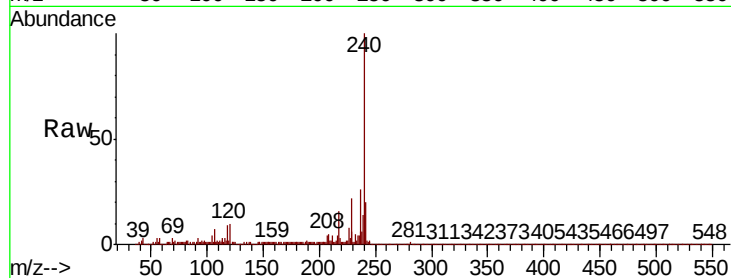




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.07 min Scan# 3092
Delta R.T. 0.00 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

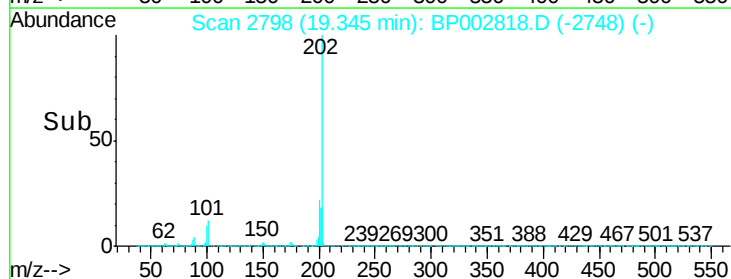
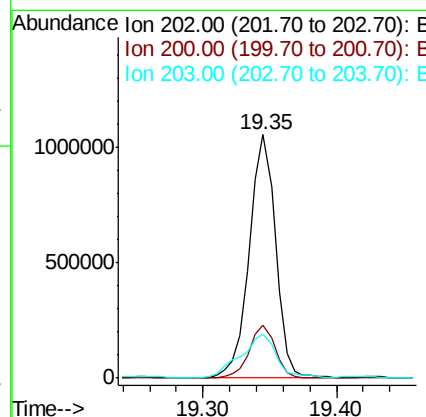
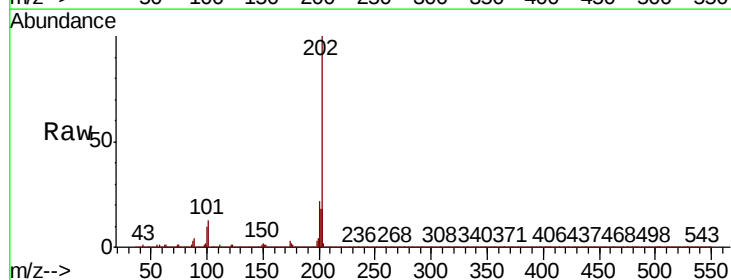
Instrument :
BNA_P
ClientSampleId :
SP-3

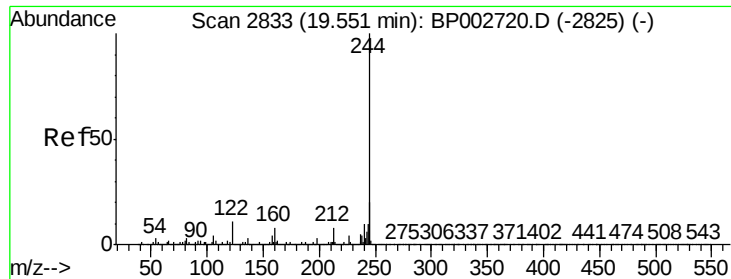
Tot Ion:240 Resp: 586094
Ion Ratio Lower Upper
240 100
120 10.0 9.4 14.2
236 26.4 21.3 31.9



#78
Pyrene
Concen: 35.248 ng
RT: 19.35 min Scan# 2798
Delta R.T. -0.01 min
Lab File: BP002818.D
Acq: 21 Jul 2020 17:28

Tgt Ion:202 Resp: 1426361
Ion Ratio Lower Upper
202 100
200 21.7 17.7 26.5
203 17.9 14.5 21.7





#79

Terphenyl-d14

Concen: 40.168 ng

RT: 19.55 min Scan# 2833

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

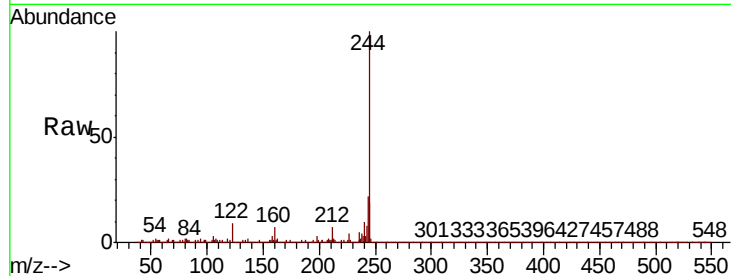
Tot Ion:244 Resp: 1026830

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

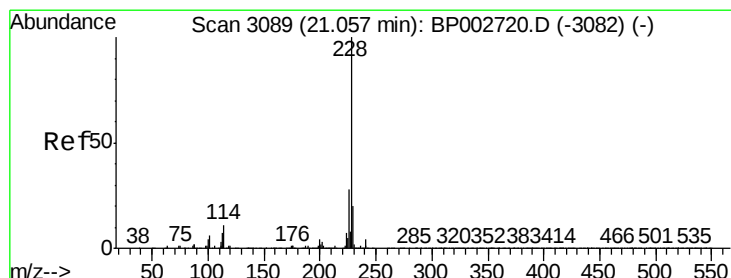
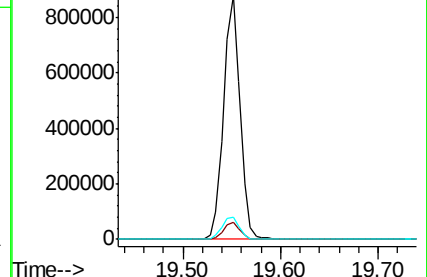
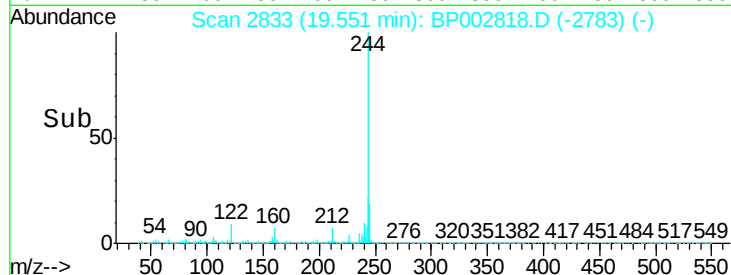
122 9.3 8.9 13.3



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: 20.837 ng

RT: 21.06 min Scan# 3089

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

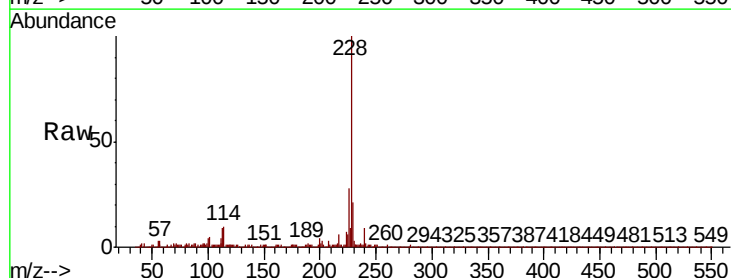
Tgt Ion:228 Resp: 790546

Ion Ratio Lower Upper

228 100

226 27.9 22.6 34.0

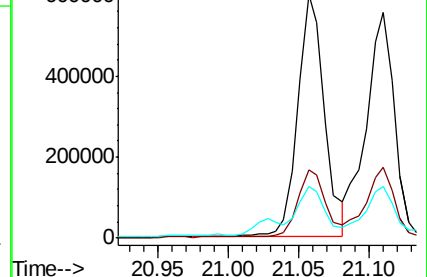
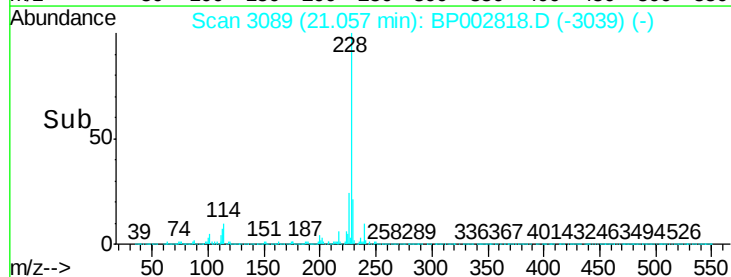
229 21.3 16.0 24.0

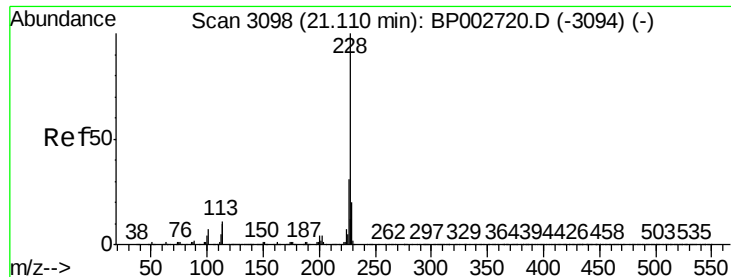


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 21.391 ng

RT: 21.11 min Scan# 3098

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

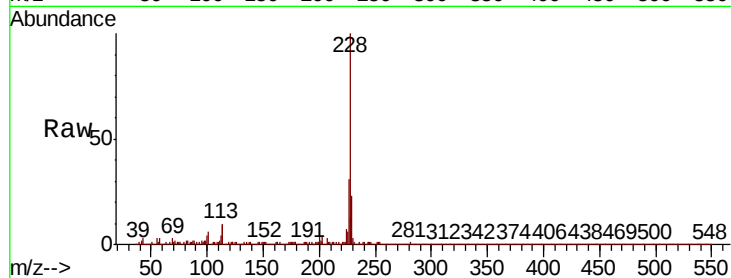
BNA_P

ClientSampleId :

SP-3

Tot Ion:228 Resp: 772516

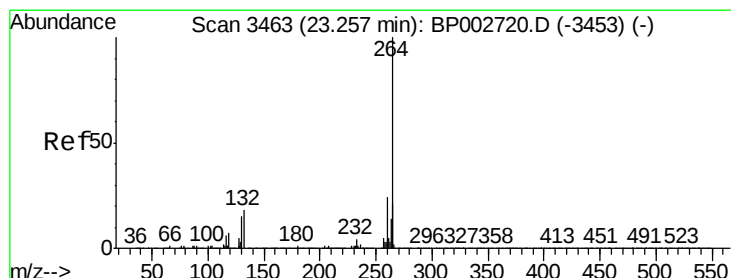
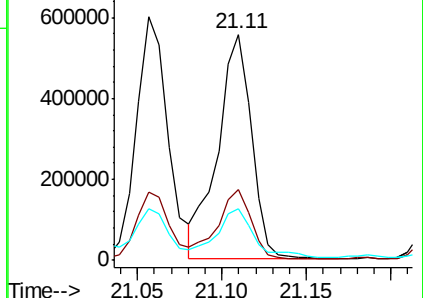
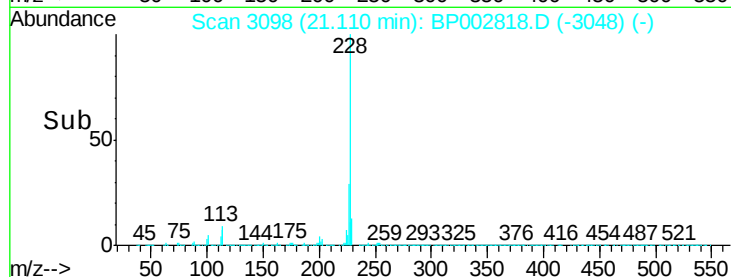
Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	22.6	15.7	23.5



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

Perylene-d12

Concen: 20.000 ng

RT: 23.26 min Scan# 3464

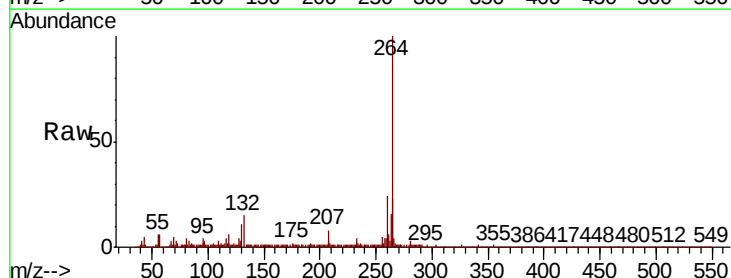
Delta R.T. 0.00 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Tgt Ion:264 Resp: 639139

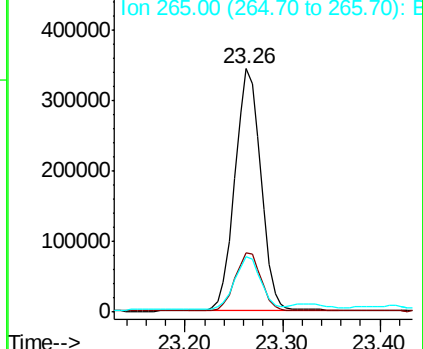
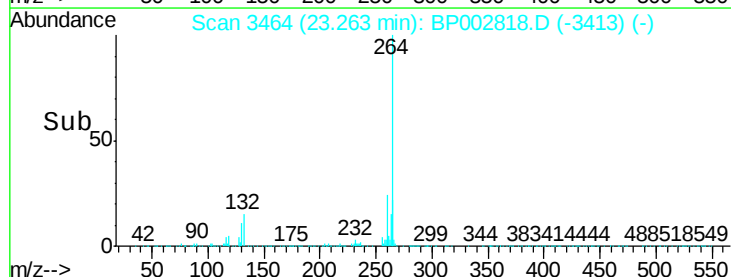
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.3	28.9
265	22.6	16.8	25.2

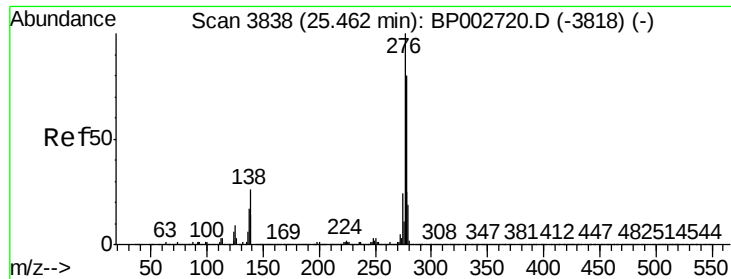


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.259 ng

RT: 25.47 min Scan# 3839

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

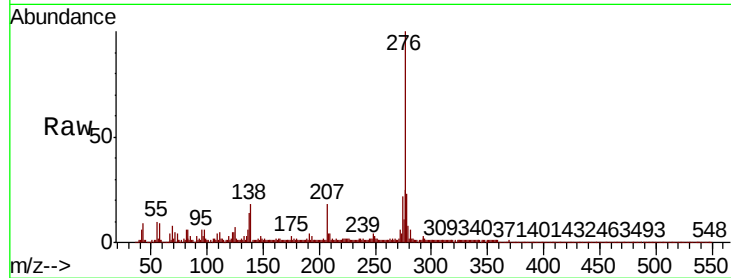
Tot Ion:276 Resp: 473901

Ion Ratio Lower Upper

276 100

138 18.2 20.8 31.2#

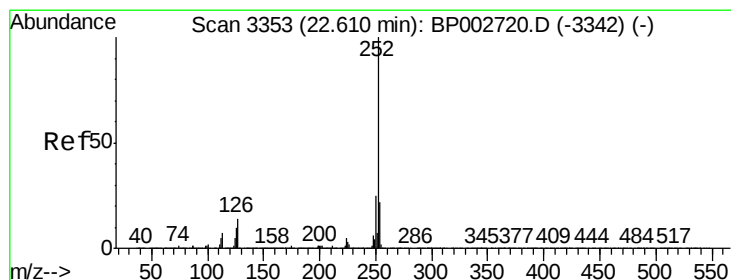
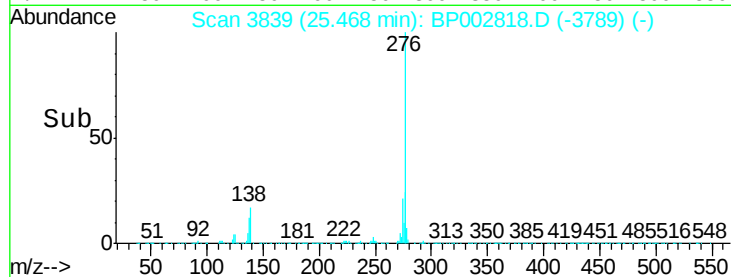
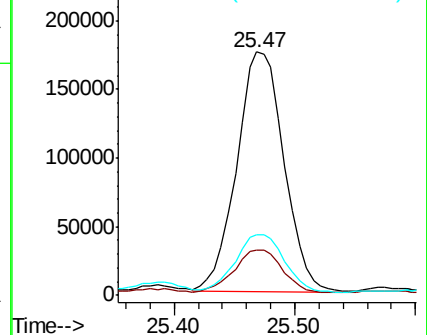
277 24.7 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#88

Benzo(b)fluoranthene

Concen: 32.024 ng

RT: 22.62 min Scan# 3354

Delta R.T. 0.00 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

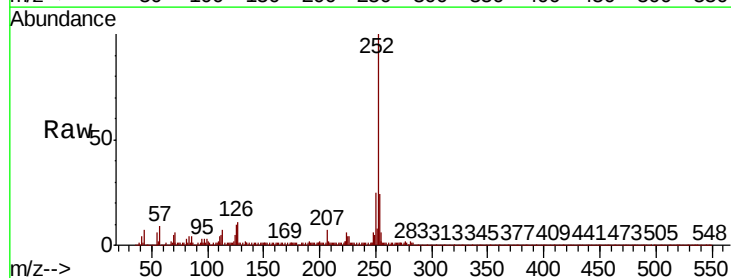
Tgt Ion:252 Resp: 1270935

Ion Ratio Lower Upper

252 100

253 23.9 17.7 26.5

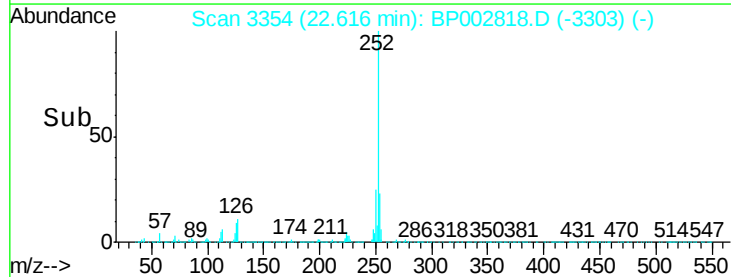
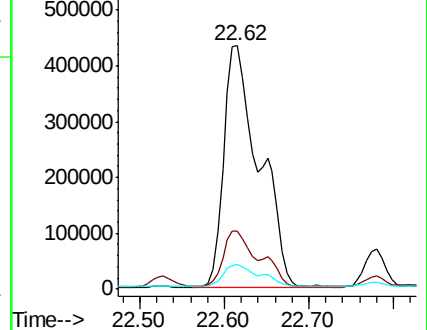
125 10.2 8.2 12.2

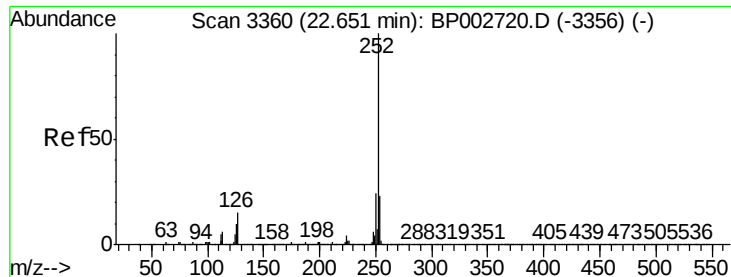


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 32.512 ng

RT: 22.62 min Scan# 3354

Delta R.T. -0.04 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

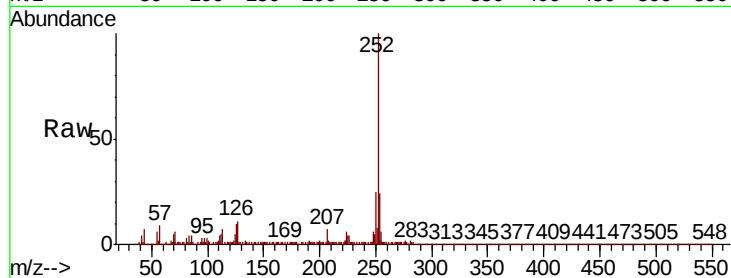
Tot Ion:252 Resp: 1270935

Ion Ratio Lower Upper

252 100

253 23.9 17.8 26.8

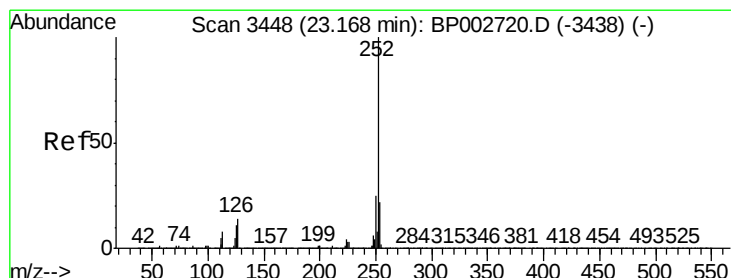
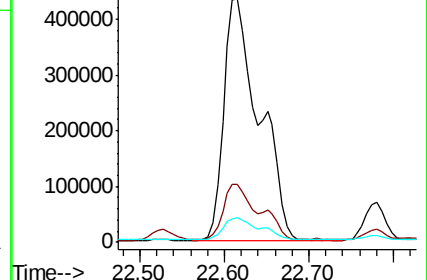
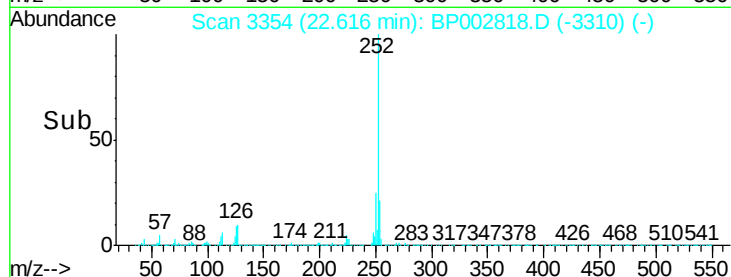
125 10.2 8.3 12.5



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: 17.641 ng

RT: 23.17 min Scan# 3448

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

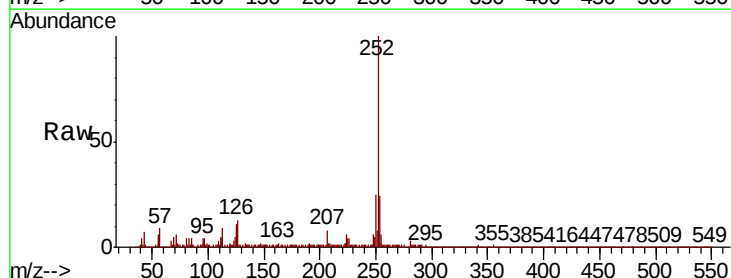
Tgt Ion:252 Resp: 663437

Ion Ratio Lower Upper

252 100

253 24.2 17.6 26.4

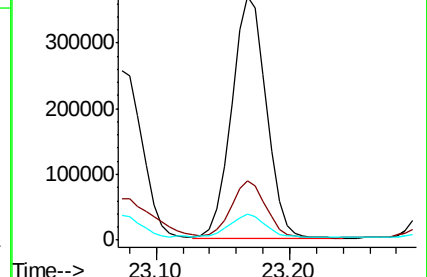
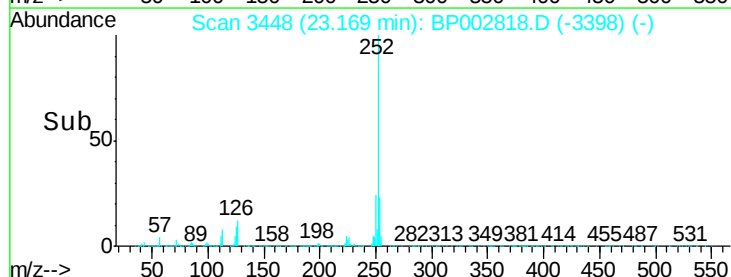
125 10.7 8.6 13.0

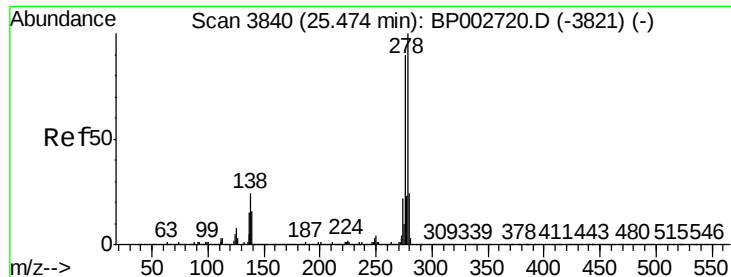


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 3.317 ng

RT: 25.47 min Scan# 3839

Delta R.T. -0.01 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

Instrument :

BNA_P

ClientSampleId :

SP-3

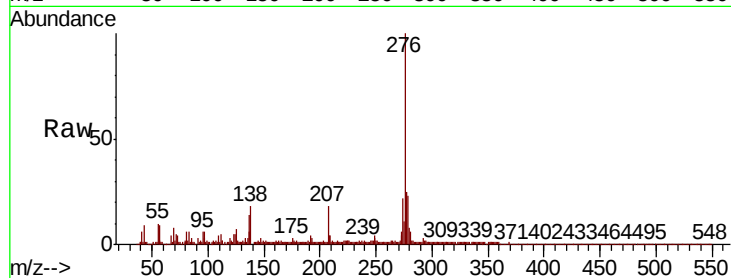
Tot Ion:278 Resp: 123577

Ion Ratio Lower Upper

278 100

139 0.0 13.1 19.7#

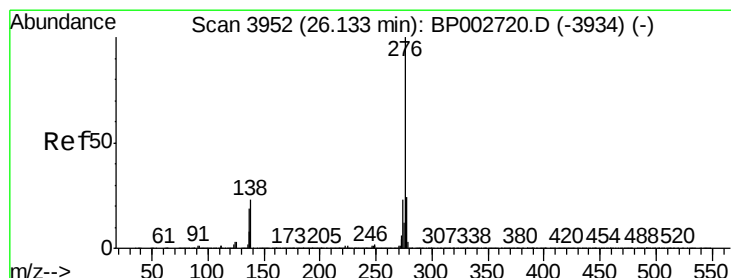
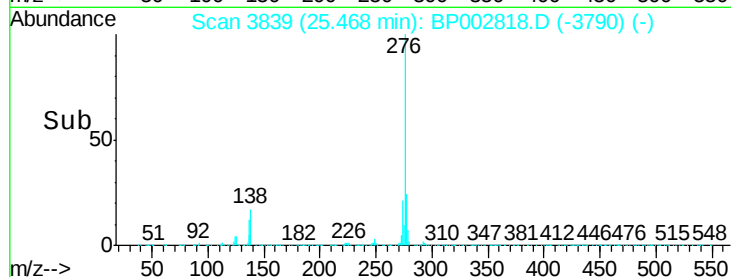
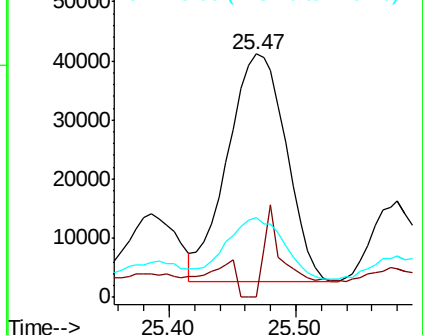
279 32.8 19.0 28.6#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 12.436 ng

RT: 26.14 min Scan# 3954

Delta R.T. 0.00 min

Lab File: BP002818.D

Acq: 21 Jul 2020 17:28

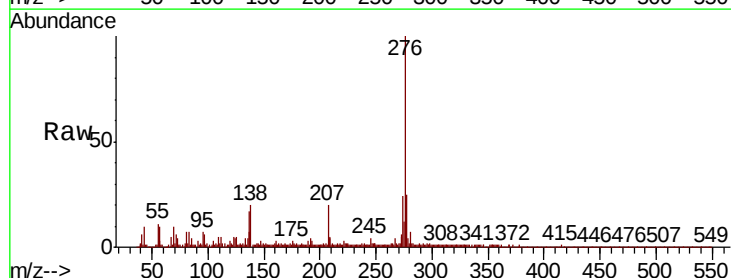
Tgt Ion:276 Resp: 469746

Ion Ratio Lower Upper

276 100

277 25.2 19.1 28.7

138 19.7 18.3 27.5



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

