

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP071620\
 Data File : BP002783.D
 Acq On : 16 Jul 2020 21:19
 Operator : CG/JU
 Sample : L3183-11 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OK-03-071520

Quant Time: Jul 17 00:31:19 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	7.56	152	205453	20.00	ng	0.00
21) Naphthalene-d8	10.33	136	875665	20.00	ng	0.00
39) Acenaphthene-d10	14.21	164	541215	20.00	ng	0.00
64) Phenanthrene-d10	16.97	188	1075967	20.00	ng	0.00
76) Chrysene-d12	21.08	240	680229	20.00	ng	0.00
86) Perylene-d12	23.27	264	630316	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.19	112	100990	8.29	ng	0.00
7) Phenol-d6	6.76	99	142643	8.21	ng	0.00
23) Nitrobenzene-d5	8.70	82	86043	5.26	ng	0.00
42) 2,4,6-Tribromophenol	15.72	330	46218	8.18	ng	0.00
45) 2-Fluorobiphenyl	12.82	172	205432	5.87	ng	0.00
79) Terphenyl-d14	19.56	244	223106	7.52	ng	0.00

Target Compounds

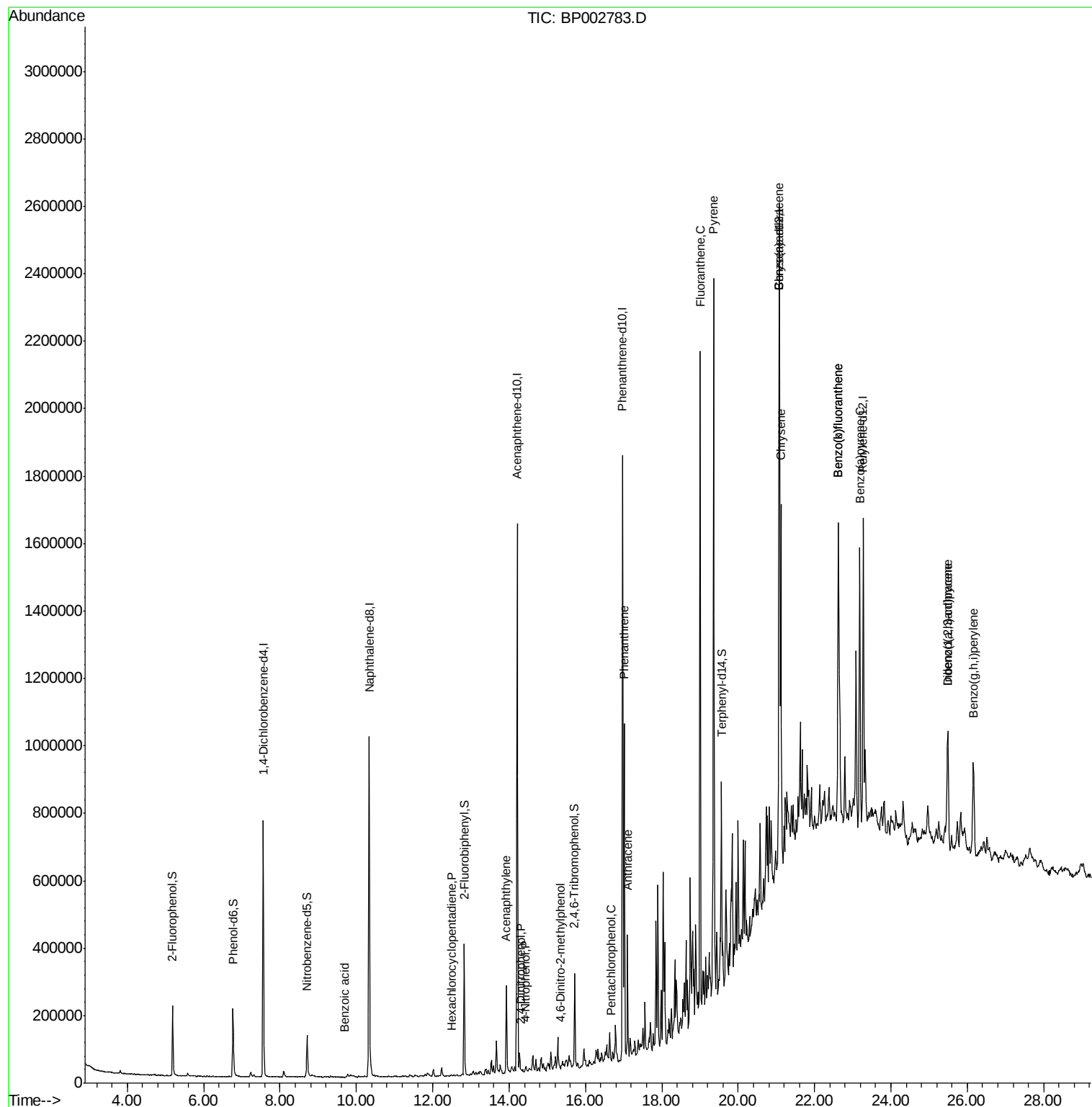
						Qvalue
32) Benzoic acid	9.68	122	23	7.064	ng	# 1
41) Hexachlorocyclopentadiene	12.50	237	22	7.437	ng	76
49) Acenaphthylene	13.93	152	198353	3.839	ng	100
54) 2,4-Dinitrophenol	14.32	184	114	11.394	ng	# 1
56) 4-Nitrophenol	14.43	139	419	5.021	ng	# 73
65) 4,6-Dinitro-2-methylphenol	15.34	198	106	5.281	ng	# 1
70) Pentachlorophenol	16.68	266	24	7.445	ng	90
71) Phenanthrene	17.01	178	578190	9.925	ng	98
72) Anthracene	17.10	178	217756	3.809	ng	100
75) Fluoranthene	19.00	202	1146330	16.982	ng	99
78) Pyrene	19.35	202	1239631	26.395	ng	99
81) Benzo(a)anthracene	21.07	228	627752	14.256	ng	94
83) Chrysene	21.12	228	584859	13.954	ng	98
87) Indeno(1,2,3-cd)pyrene	25.49	276	335948	7.374	ng	96
88) Benzo(b)fluoranthene	22.62	252	917138	23.433	ng	# 95
89) Benzo(k)fluoranthene	22.62	252	917138	23.790	ng	# 95
90) Benzo(a)pyrene	23.18	252	518877	13.990	ng	96
91) Dibenzo(a,h)anthracene	25.49	278	96433	2.625	ng	# 81
92) Benzo(a,h,i)perylene	26.16	276	328452	8.817	ng	98

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

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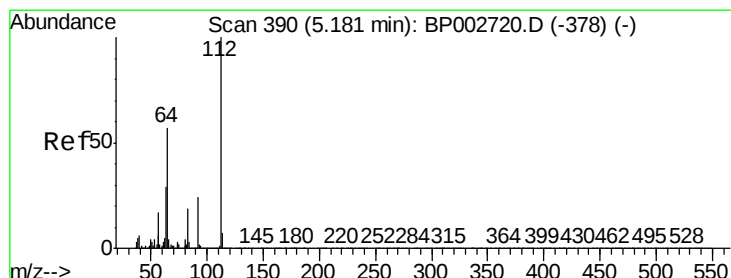
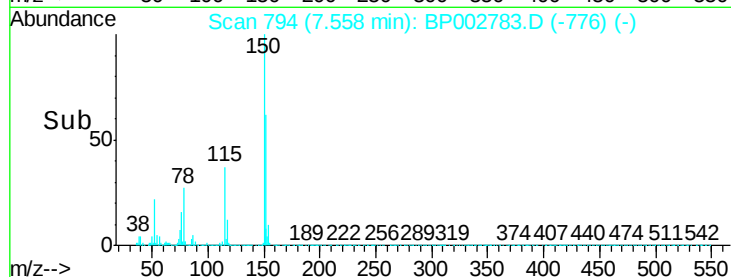
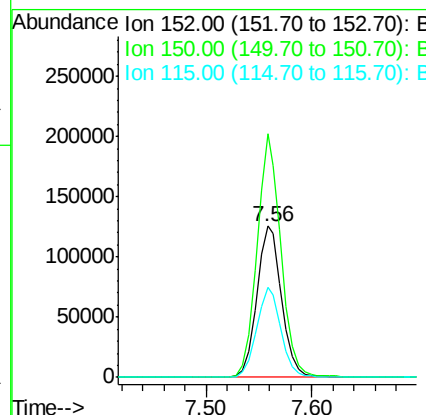
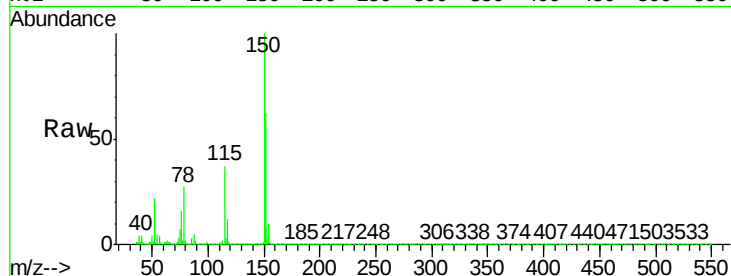


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.56 min Scan# 794
Delta R.T. 0.01 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Instrument :
BNA_P
ClientSampleId :
OK-03-071520

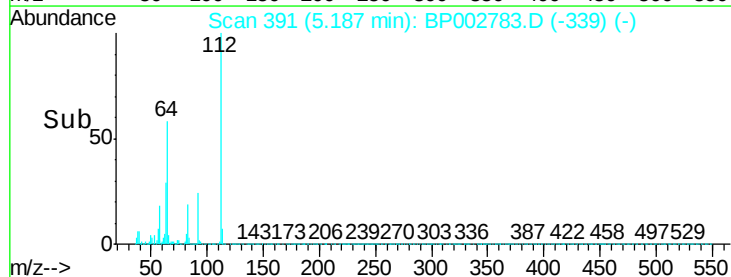
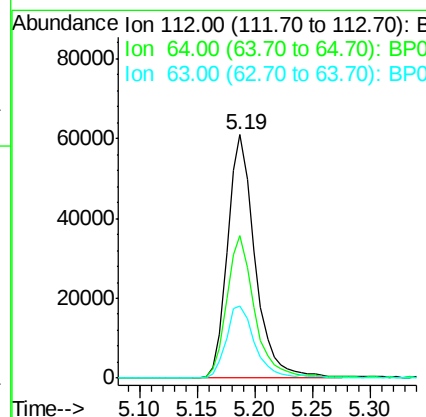
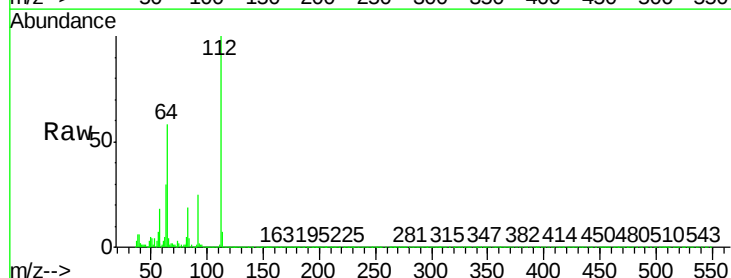
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.9	123.7	185.5
115	59.6	47.2	70.8

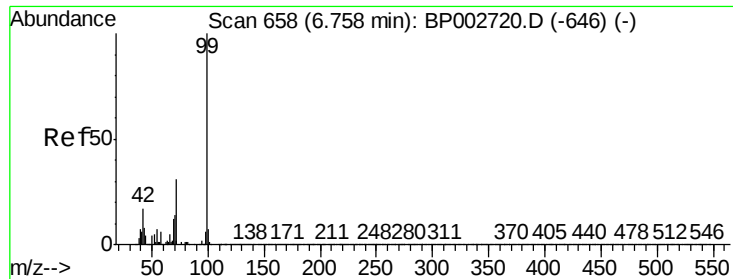


#5

2-Fluorophenol
Concen: 8.293 ng
RT: 5.19 min Scan# 391
Delta R.T. 0.01 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	45.6	68.4
63	29.5	23.5	35.3





#7

Phenol-d6

Concen: 8.208 ng

RT: 6.76 min Scan# 659

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

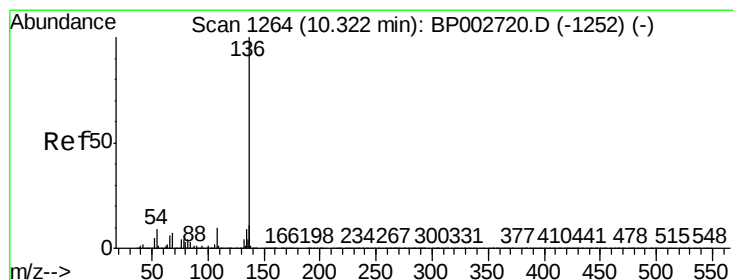
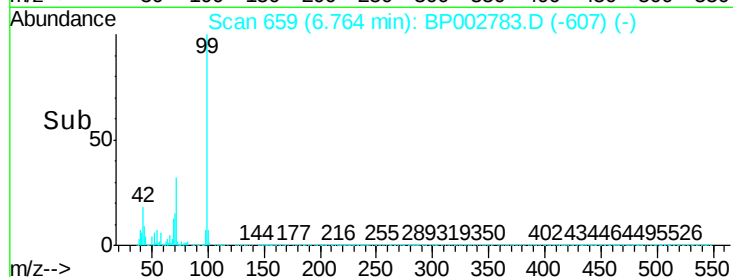
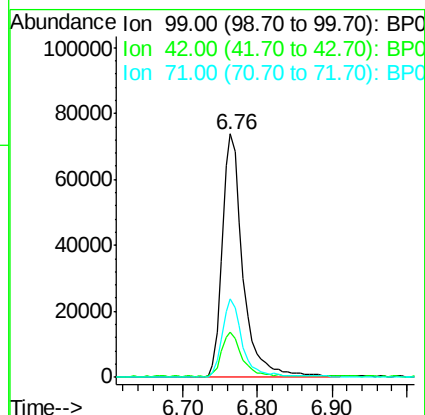
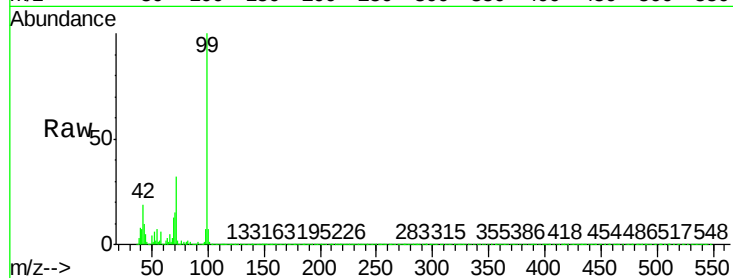
Tot Ion: 99 Resp: 142643

Ion Ratio Lower Upper

99 100

42 18.6 13.4 20.2

71 32.2 24.6 36.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.33 min Scan# 1266

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Tgt Ion: 136 Resp: 875665

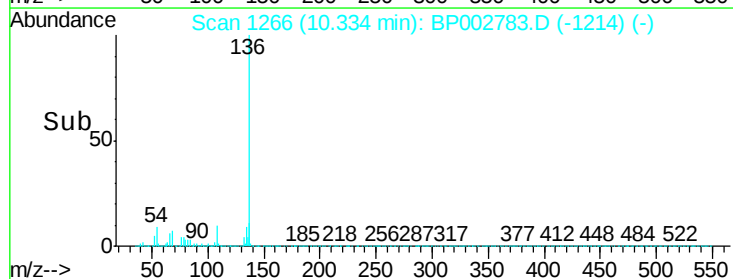
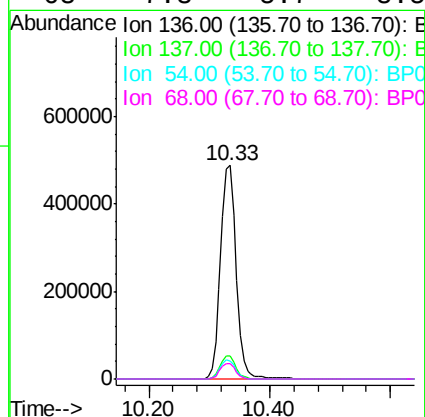
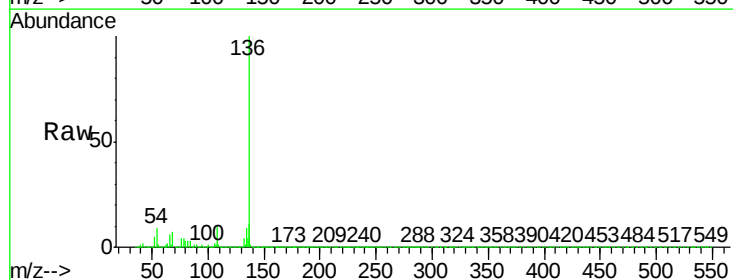
Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

54 8.7 6.9 10.3

68 7.3 5.7 8.5

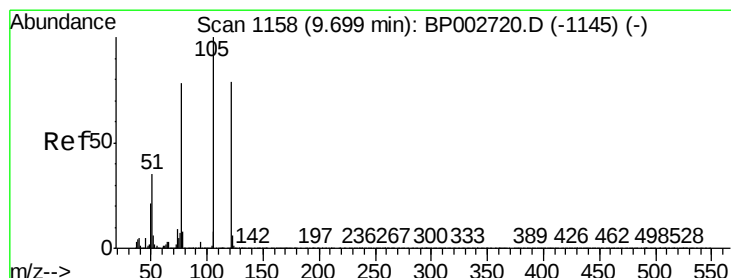
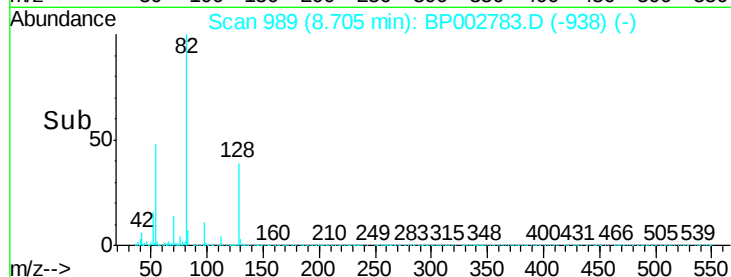
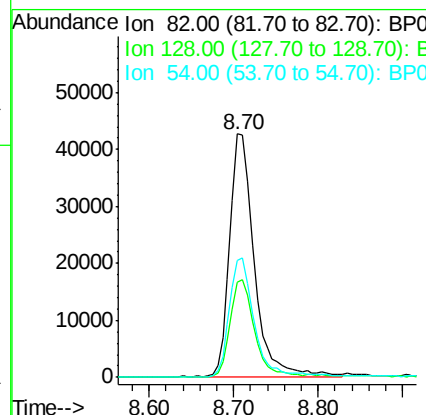
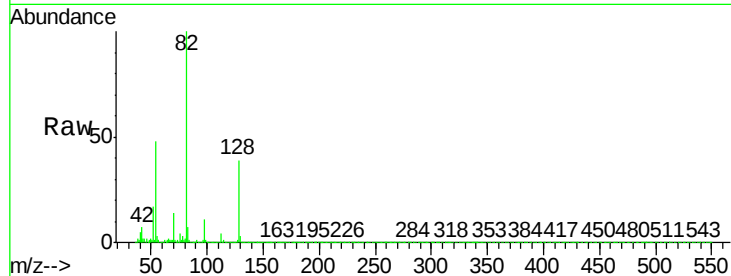




#23
Nitrobenzene-d5
Concen: 5.255 ng
RT: 8.70 min Scan# 989
Delta R.T. 0.00 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

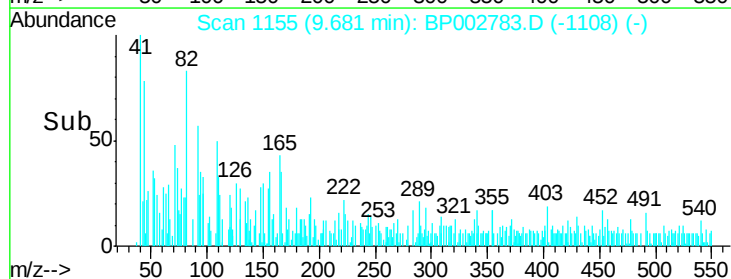
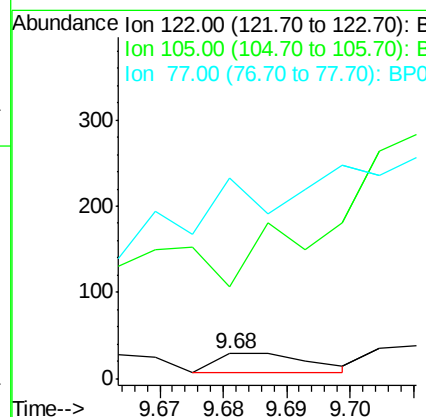
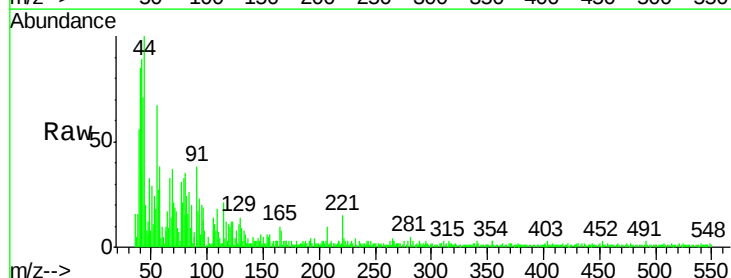
Instrument :
BNA_P
ClientSampleId :
OK-03-071520

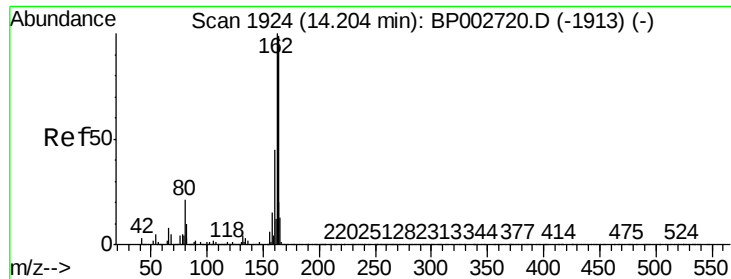
Tot Ion	82	Resp	86043
Ion Ratio	Lower	Upper	
82	100		
128	39.0	33.8	50.8
54	48.1	38.8	58.2



#32
Benzoic acid
Concen: 7.064 ng
RT: 9.68 min Scan# 1155
Delta R.T. -0.02 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Tgt Ion	122	Resp	23
Ion Ratio	Lower	Upper	
122	100		
105	369.0	105.4	145.4#
77	800.0	78.5	118.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.21 min Scan# 1925

Delta R.T. 0.00 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

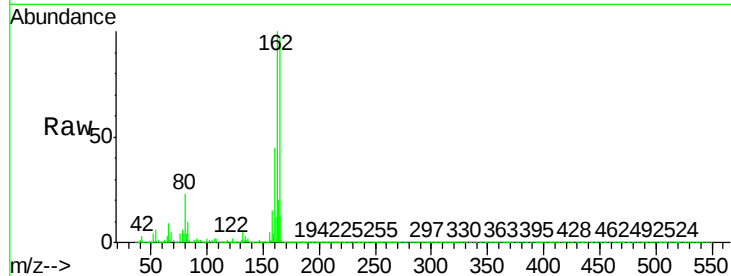
Tot Ion:164 Resp: 541215

Ion Ratio Lower Upper

164 100

162 103.3 80.6 121.0

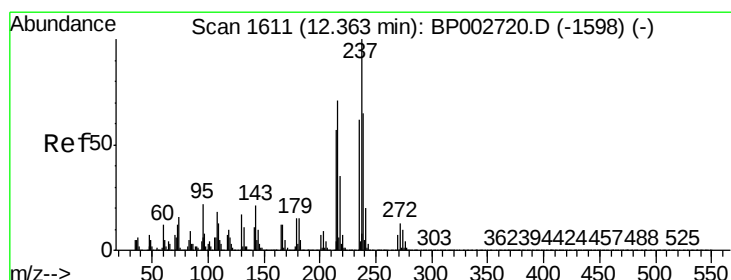
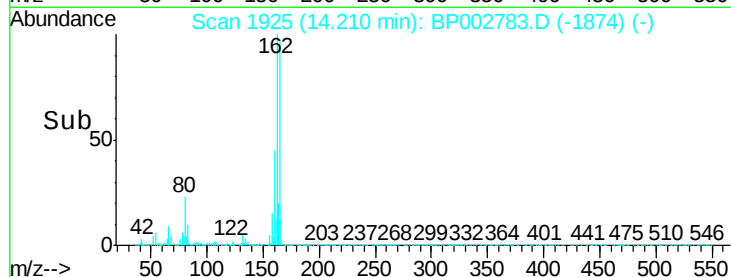
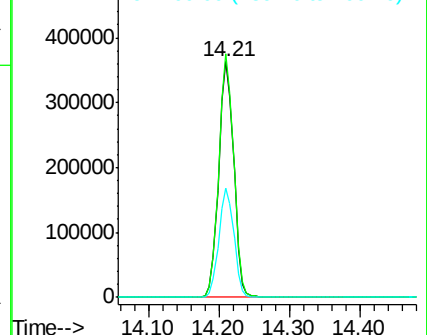
160 46.1 36.4 54.6



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: 7.437 ng

RT: 12.50 min Scan# 1635

Delta R.T. 0.14 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

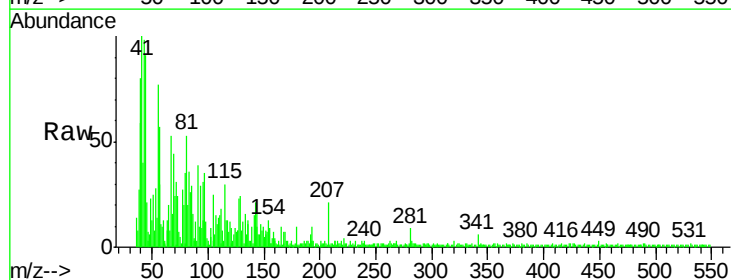
Tgt Ion:237 Resp: 22

Ion Ratio Lower Upper

237 100

235 45.5 42.3 82.3

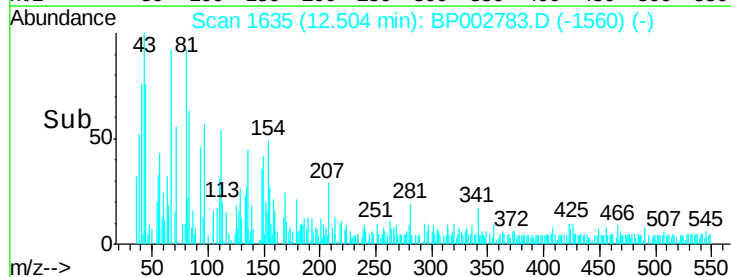
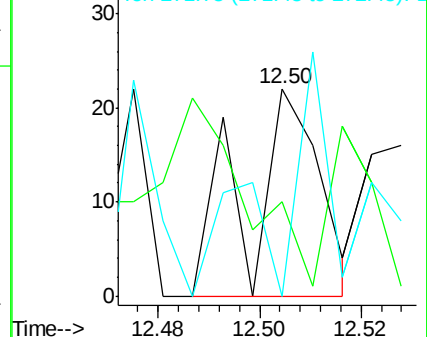
272 0.0 0.0 32.5

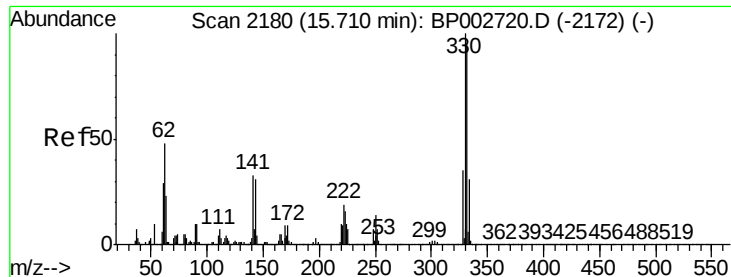


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

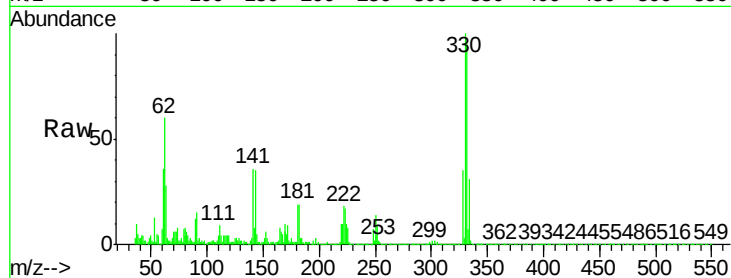




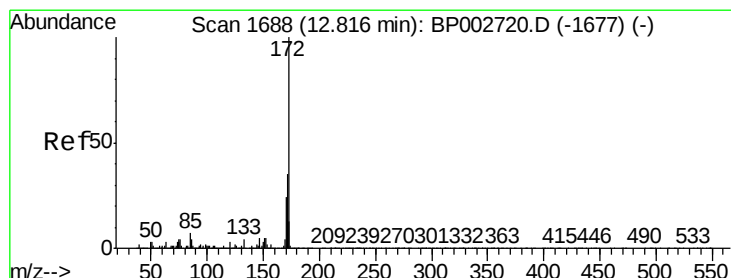
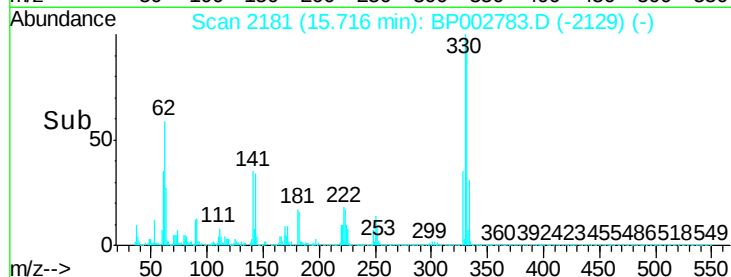
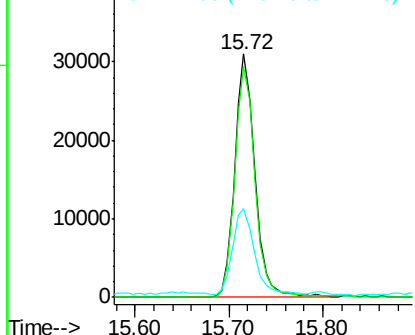
#42
2,4,6-Tribromophenol
Concen: 8.181 ng
RT: 15.72 min Scan# 2181
Delta R.T. 0.01 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Instrument :
BNA_P
ClientSampleId :
OK-03-071520

Tot Ion:330 Resp: 46218
Ion Ratio Lower Upper
330 100
332 95.7 76.5 114.7
141 38.1 28.8 43.2

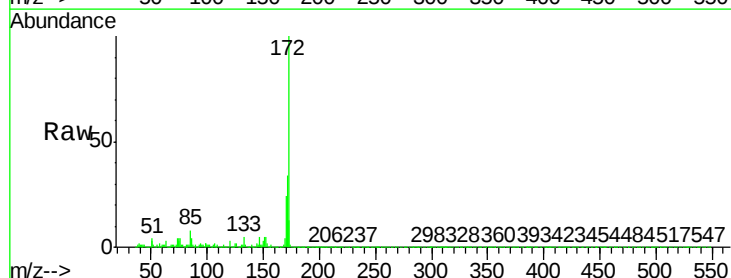


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

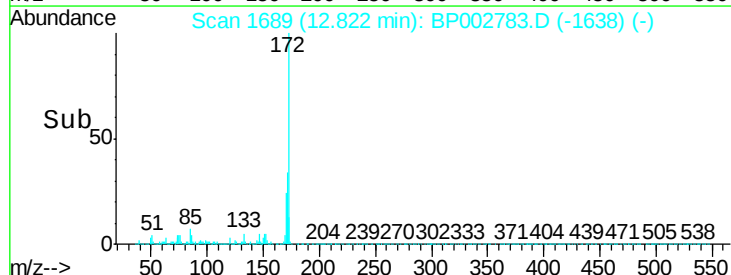
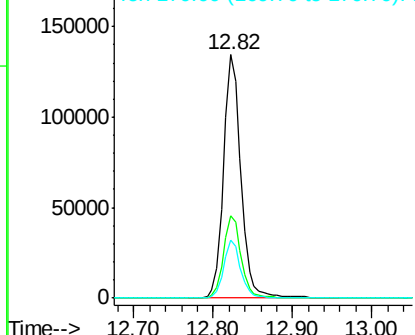


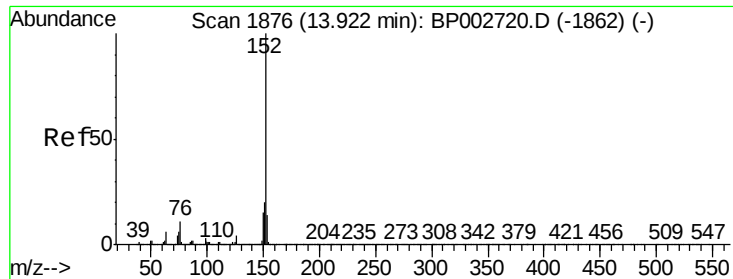
#45
2-Fluorobiphenyl
Concen: 5.872 ng
RT: 12.82 min Scan# 1689
Delta R.T. 0.00 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Tgt Ion:172 Resp: 205432
Ion Ratio Lower Upper
172 100
171 33.9 28.1 42.1
170 23.6 19.3 28.9



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





#49

Acenaphthylene

Concen: 3.839 ng

RT: 13.93 min Scan# 1877

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

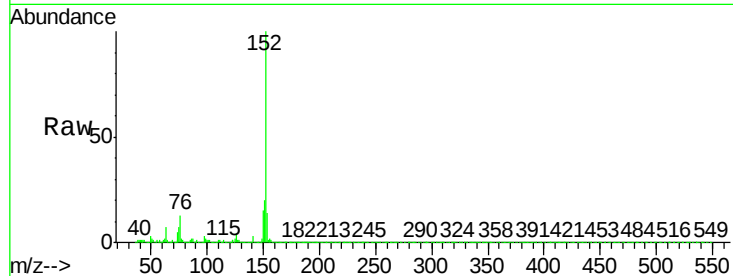
Tot Ion:152 Resp: 198353

Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 14.0 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

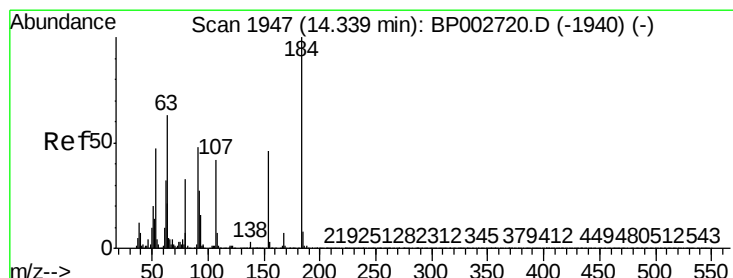
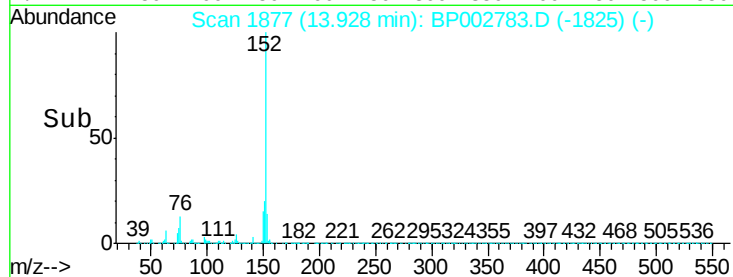
13.93

100000

50000

0

Time--> 13.80 13.90 14.00 14.10



#54

2,4-Dinitrophenol

Concen: 11.394 ng

RT: 14.32 min Scan# 1943

Delta R.T. -0.02 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

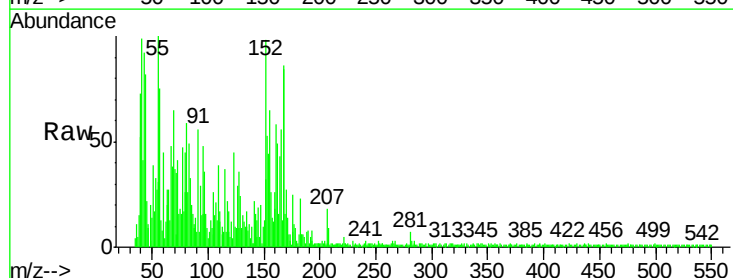
Tgt Ion:184 Resp: 114

Ion Ratio Lower Upper

184 100

63 412.5 51.6 77.4#

154 685.9 45.0 67.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E

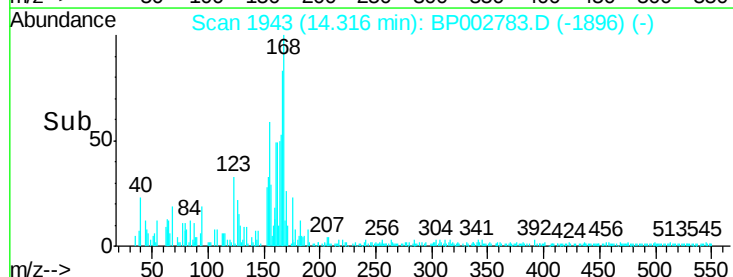
15000

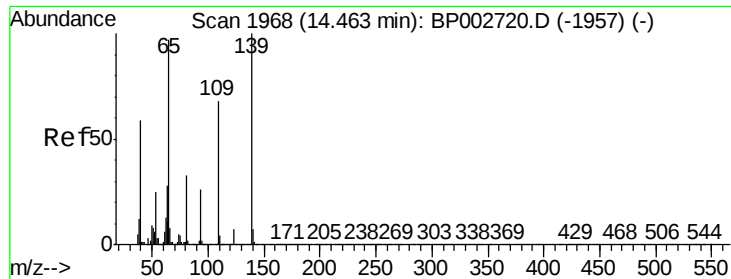
10000

5000

0

Time--> 14.30 14.35

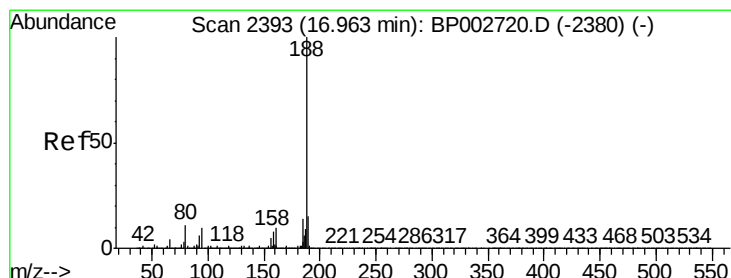
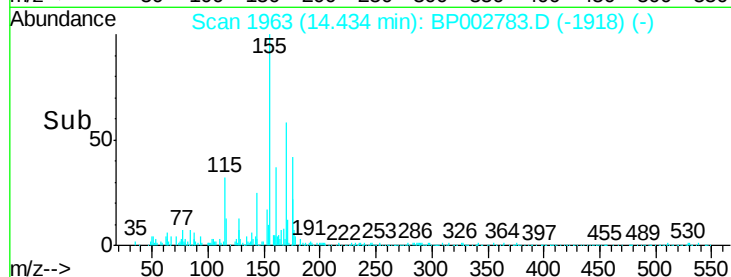
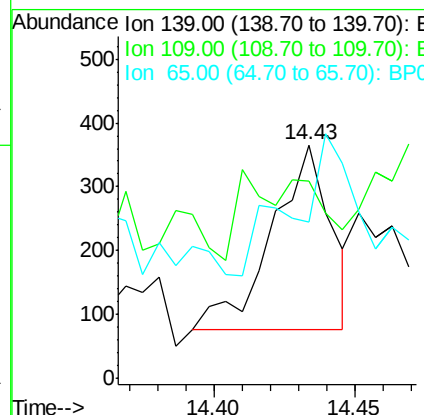
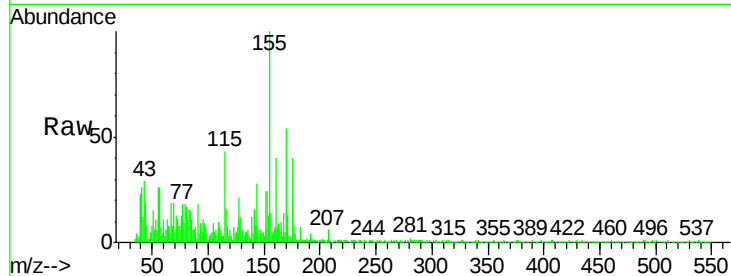




#56
4-Nitrophenol
Concen: 5.021 ng
RT: 14.43 min Scan# 1963
Delta R.T. -0.03 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

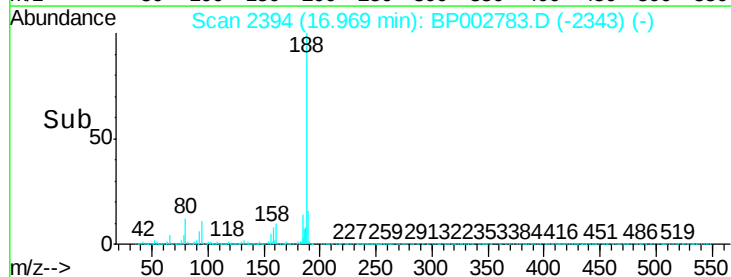
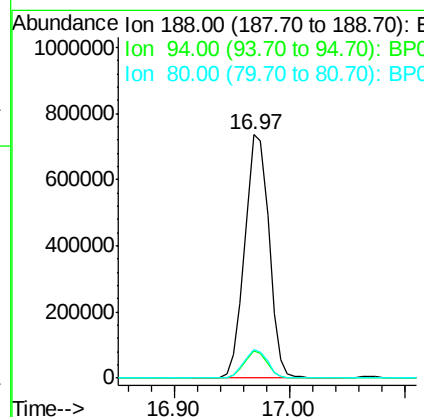
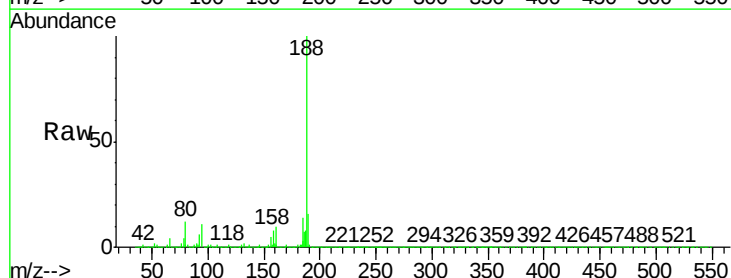
Instrument :
BNA_P
ClientSampleId :
OK-03-071520

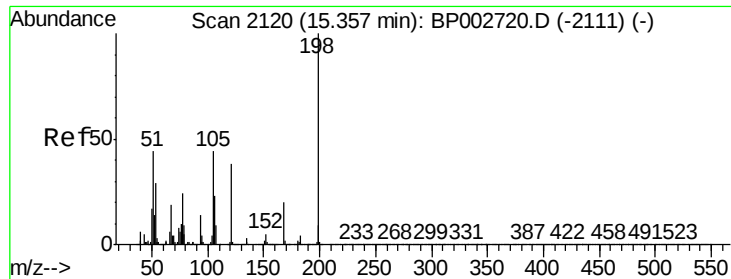
Tot Ion:139 Resp: 419
Ion Ratio Lower Upper
139 100
109 84.2 48.1 88.1
65 66.7 77.9 117.9#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.97 min Scan# 2394
Delta R.T. 0.00 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Tgt Ion:188 Resp: 1075967
Ion Ratio Lower Upper
188 100
94 11.3 8.1 12.1
80 11.7 8.9 13.3

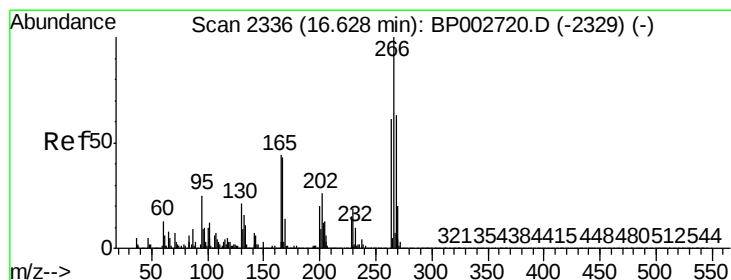
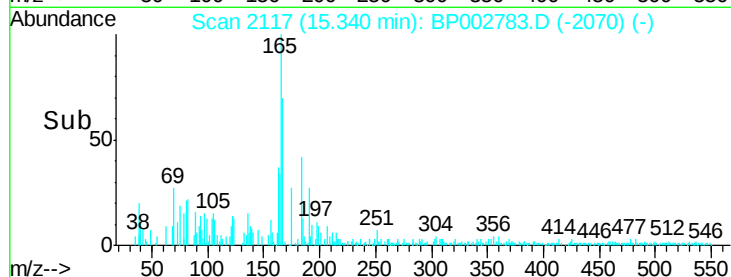
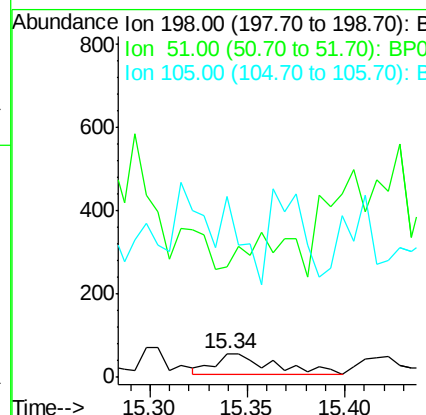
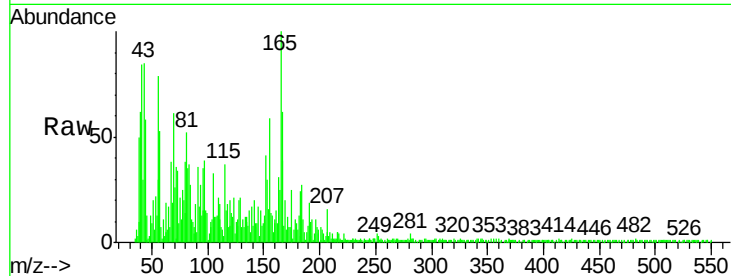




#65
 4,6-Dinitro-2-methylphenol
 Concen: 5.281 ng
 RT: 15.34 min Scan# 2117
 Delta R.T. -0.02 min
 Lab File: BP002783.D
 Acq: 16 Jul 2020 21:19

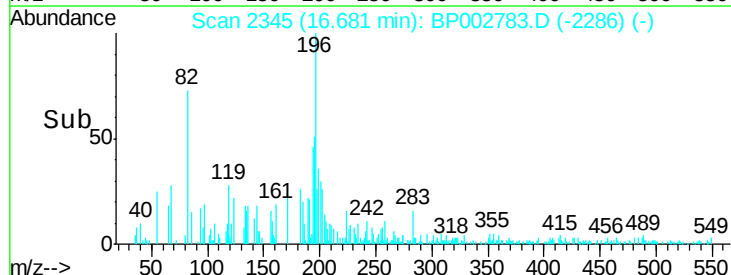
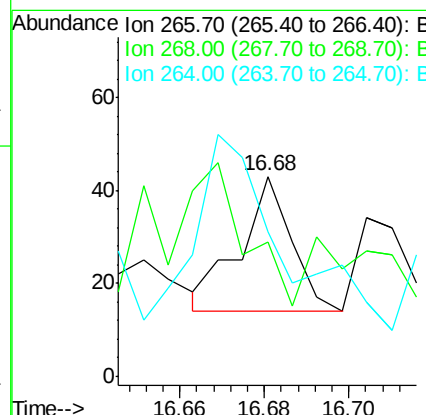
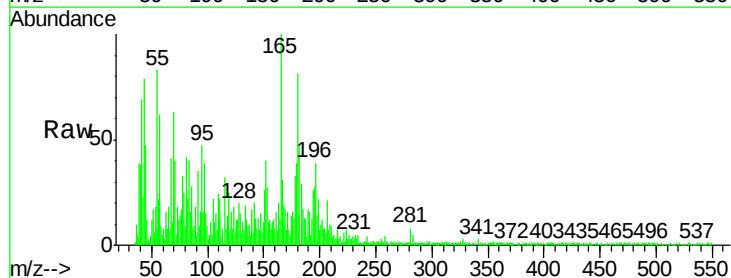
Instrument :
 BNA_P
 ClientSampleId :
 OK-03-071520

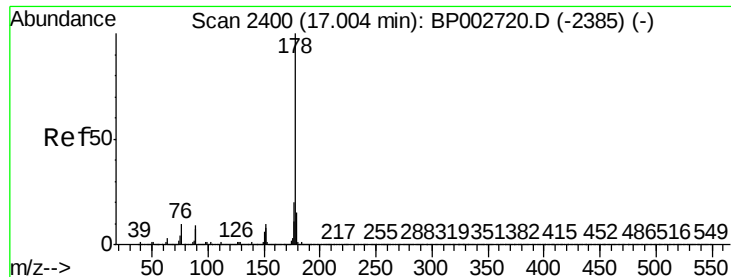
Tot Ion:198 Resp: 106
 Ion Ratio Lower Upper
 198 100
 51 463.2 27.1 67.1#
 105 763.2 24.9 64.9#



#70
 Pentachlorophenol
 Concen: 7.445 ng
 RT: 16.68 min Scan# 2345
 Delta R.T. 0.05 min
 Lab File: BP002783.D
 Acq: 16 Jul 2020 21:19

Tgt Ion:266 Resp: 24
 Ion Ratio Lower Upper
 266 100
 268 67.4 50.6 75.8
 264 72.1 48.6 72.8





#71

Phenanthrene

Concen: 9.925 ng

RT: 17.01 min Scan# 2401

Delta R.T. 0.00 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

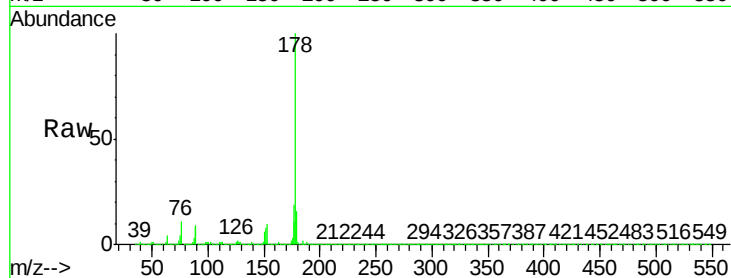
BNA_P

ClientSampleId :

OK-03-071520

Tot Ion:178 Resp: 578190

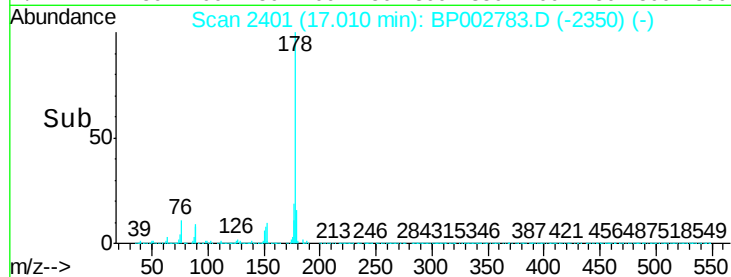
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	15.7	12.3	18.5



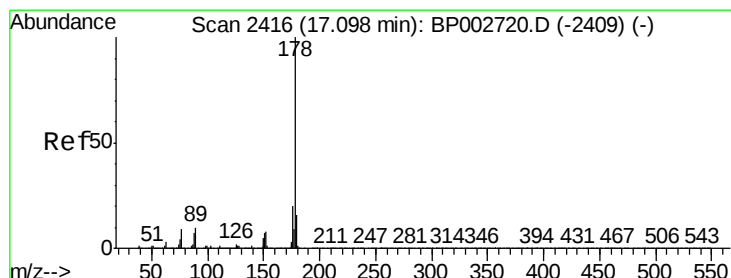
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#72

Anthracene

Concen: 3.809 ng

RT: 17.10 min Scan# 2417

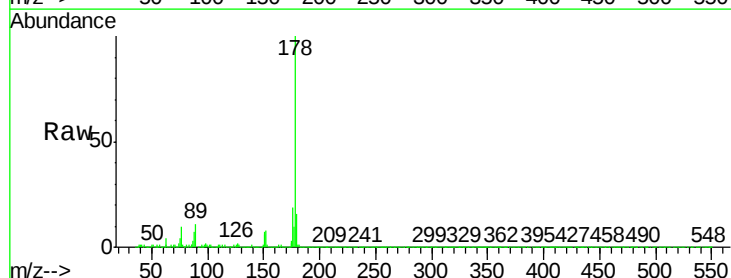
Delta R.T. 0.00 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Tgt Ion:178 Resp: 217756

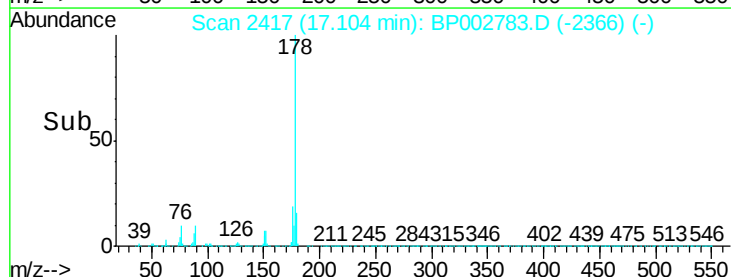
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	16.0	12.6	19.0



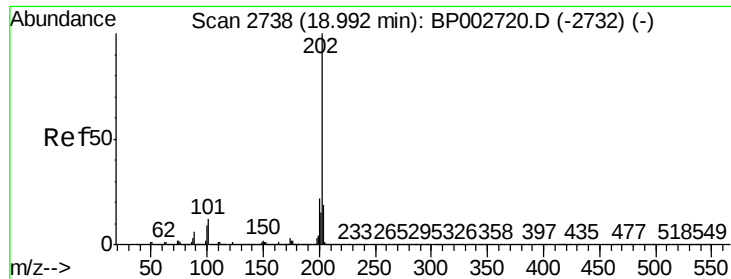
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75

Fluoranthene

Concen: 16.982 ng

RT: 19.00 min Scan# 2740

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

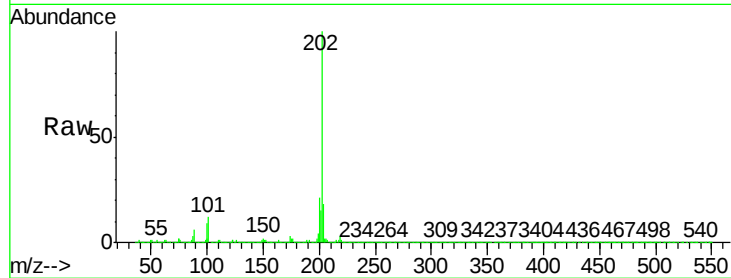
BNA_P

ClientSampleId :

OK-03-071520

Tot Ion:202 Resp: 1146330

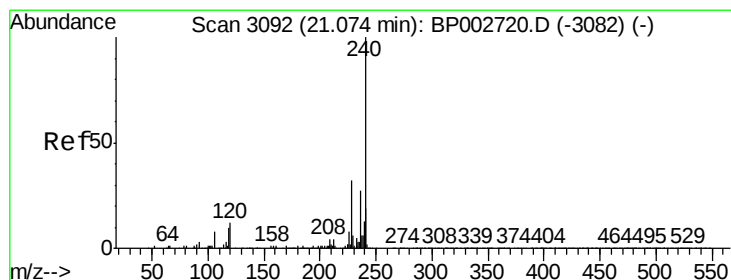
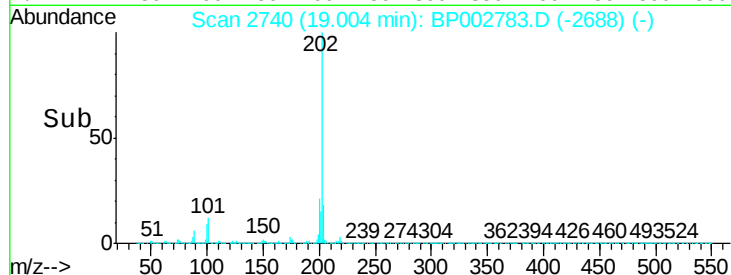
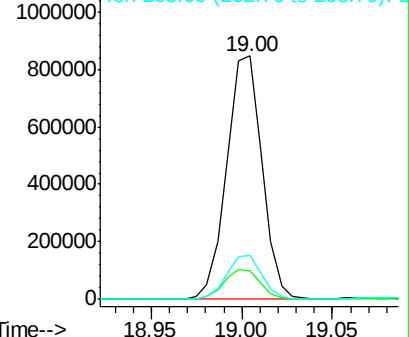
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.5
203	18.1	0.0	38.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.08 min Scan# 3093

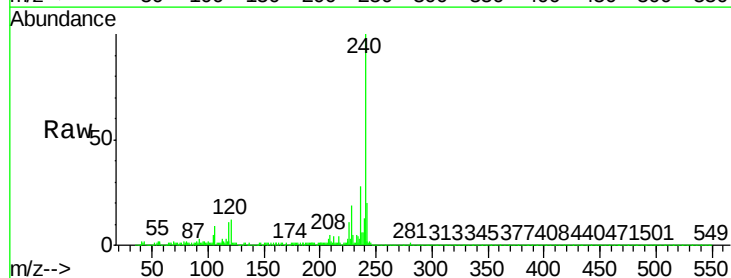
Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Tgt Ion:240 Resp: 680229

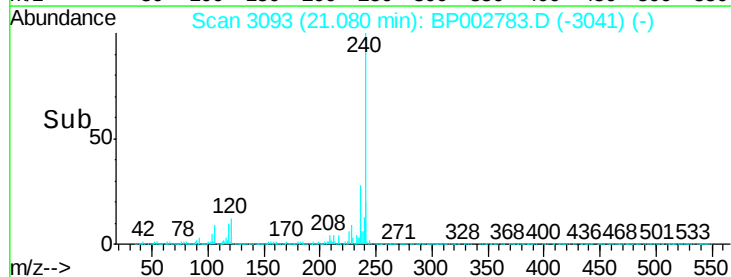
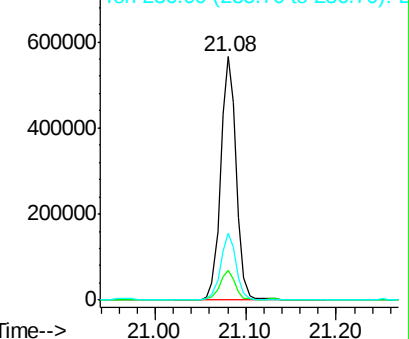
Ion	Ratio	Lower	Upper
240	100		
120	12.3	9.4	14.2
236	27.7	21.3	31.9

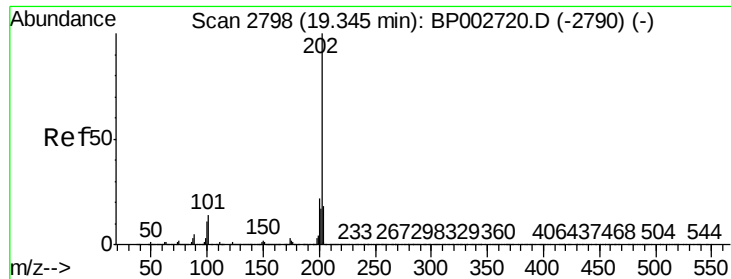


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 26.395 ng

RT: 19.35 min Scan# 2799

Delta R.T. 0.00 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

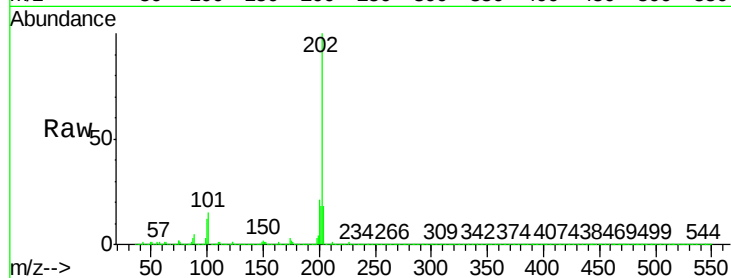
Tot Ion:202 Resp: 1239631

Ion Ratio Lower Upper

202 100

200 21.5 17.7 26.5

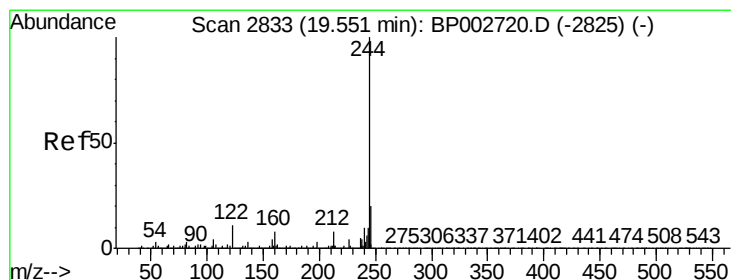
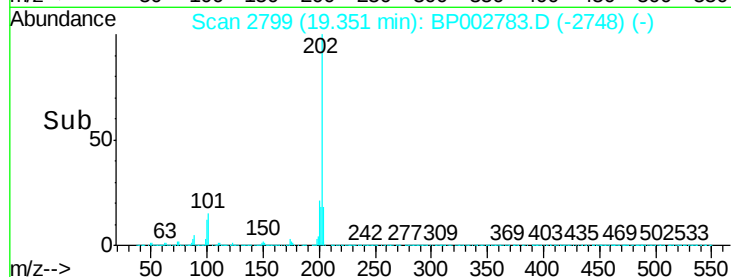
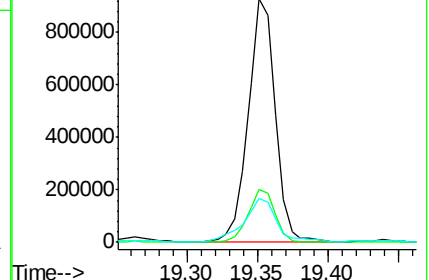
203 18.0 14.5 21.7



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: 7.520 ng

RT: 19.56 min Scan# 2834

Delta R.T. 0.00 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

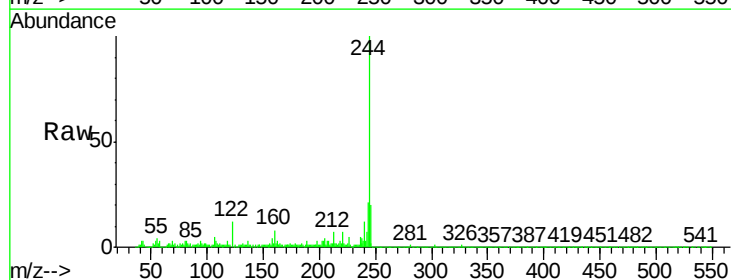
Tgt Ion:244 Resp: 223106

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

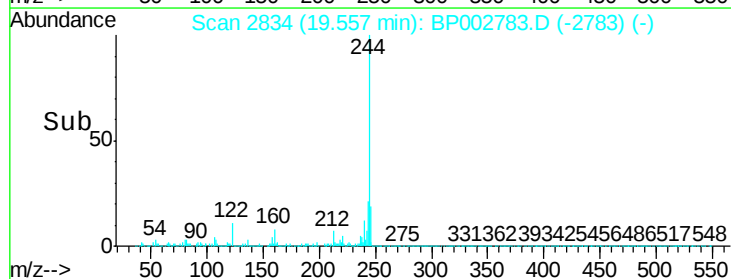
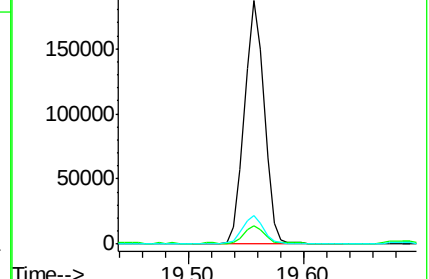
122 11.8 8.9 13.3

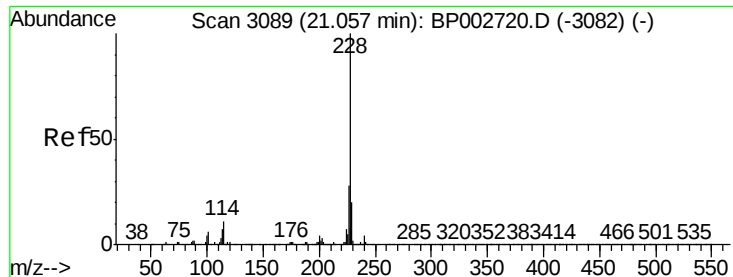


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

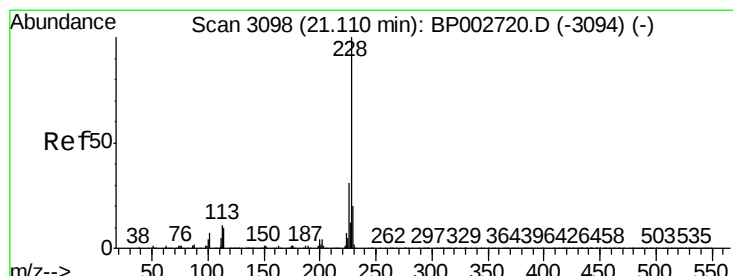
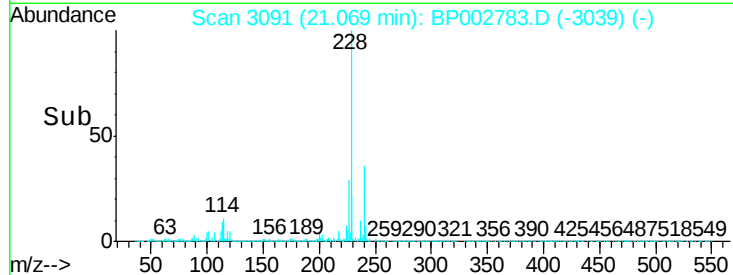
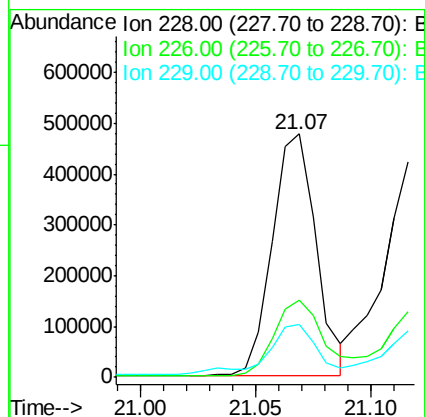
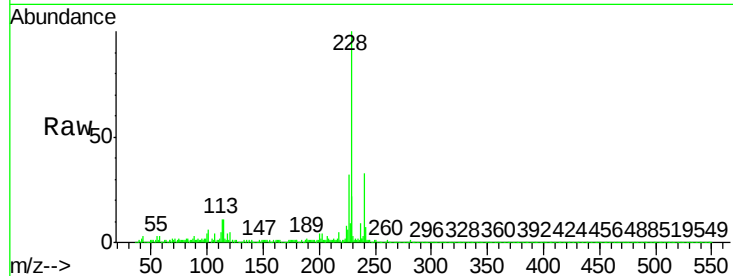




#81
Benzo(a)anthracene
Concen: 14.256 ng
RT: 21.07 min Scan# 3091
Delta R.T. 0.01 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

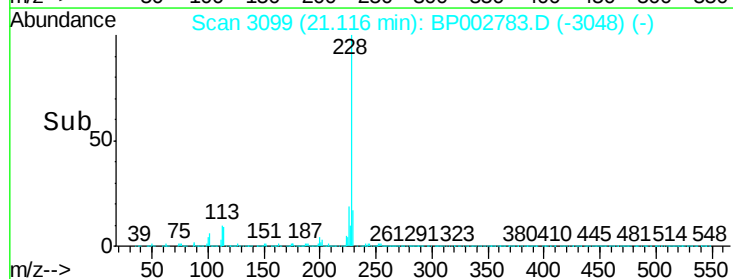
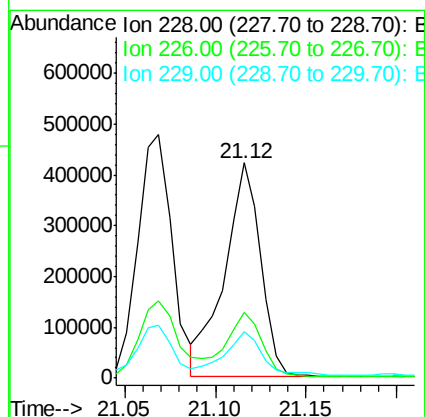
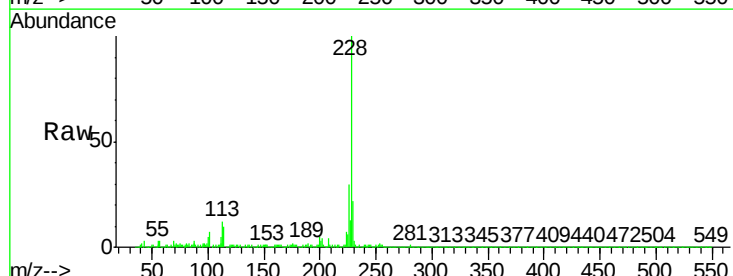
Instrument :
BNA_P
ClientSampleId :
OK-03-071520

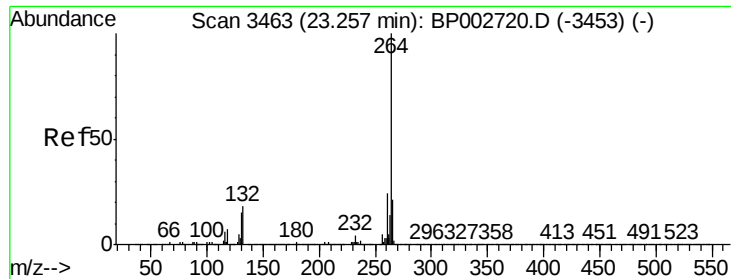
Tot Ion:228 Resp: 627752
Ion Ratio Lower Upper
228 100
226 31.9 22.6 34.0
229 21.8 16.0 24.0



#83
Chrysene
Concen: 13.954 ng
RT: 21.12 min Scan# 3099
Delta R.T. 0.00 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Tgt Ion:228 Resp: 584859
Ion Ratio Lower Upper
228 100
226 30.5 24.6 37.0
229 21.7 15.7 23.5

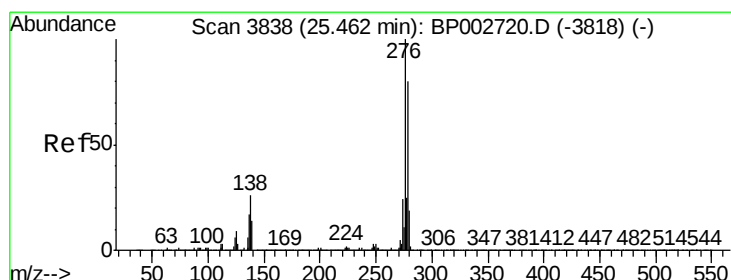
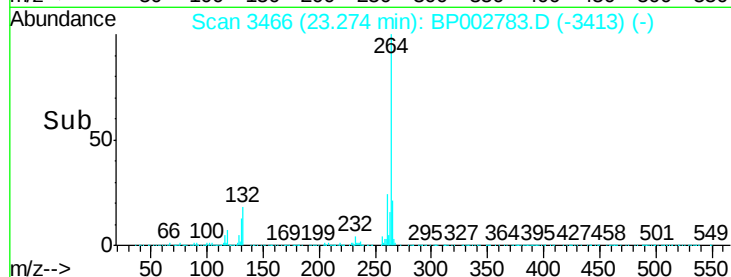
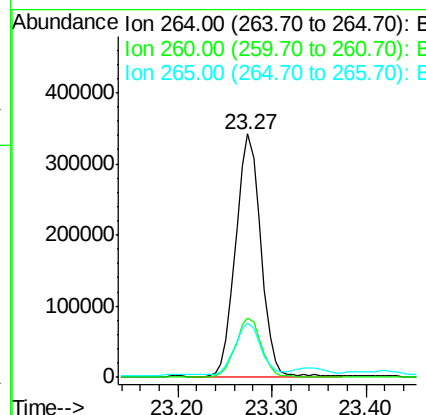
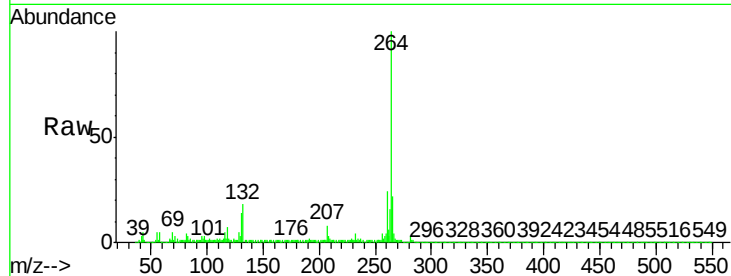




#86
Pervlene-d12
Concen: 20.000 ng
RT: 23.27 min Scan# 3466
Delta R.T. 0.01 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

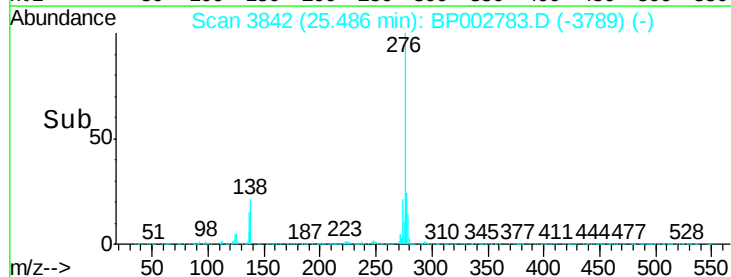
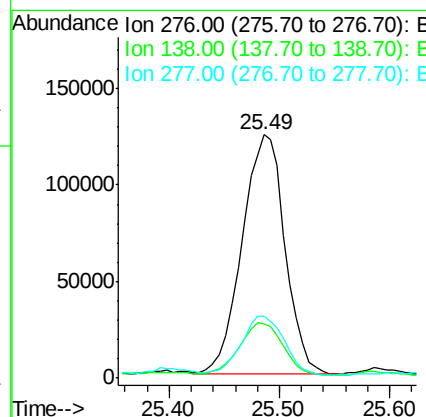
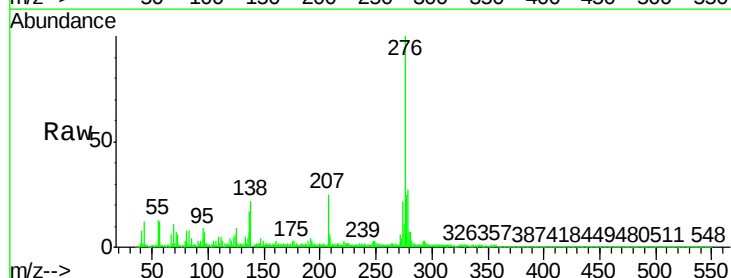
Instrument :
BNA_P
ClientSampleId :
OK-03-071520

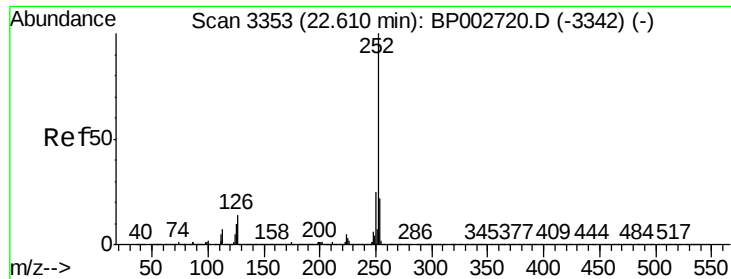
Tot Ion:	264	Resp:	630316
Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.3	28.9
265	22.1	16.8	25.2



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.374 ng
RT: 25.49 min Scan# 3842
Delta R.T. 0.01 min
Lab File: BP002783.D
Acq: 16 Jul 2020 21:19

Tgt Ion:	276	Resp:	335948
Ion	Ratio	Lower	Upper
276	100		
138	22.5	20.8	31.2
277	25.2	20.0	30.0





#88

Benzo(b)fluoranthene

Concen: 23.433 ng

RT: 22.62 min Scan# 3355

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

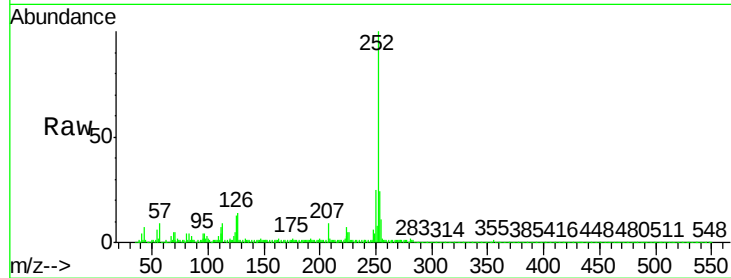
Tot Ion:252 Resp: 917138

Ion Ratio Lower Upper

252 100

253 24.4 17.7 26.5

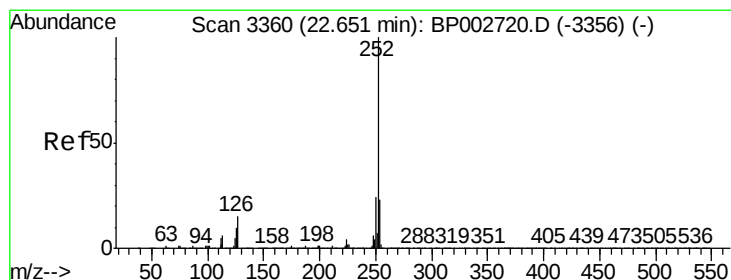
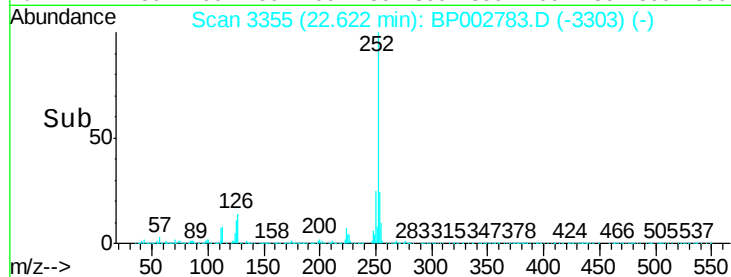
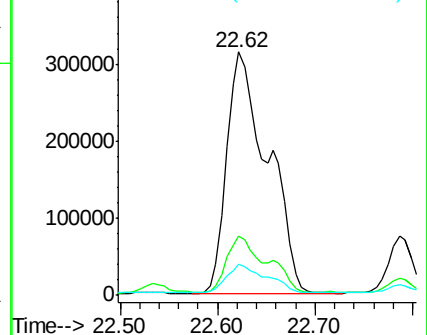
125 12.6 8.2 12.2#



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: 23.790 ng

RT: 22.62 min Scan# 3355

Delta R.T. -0.03 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

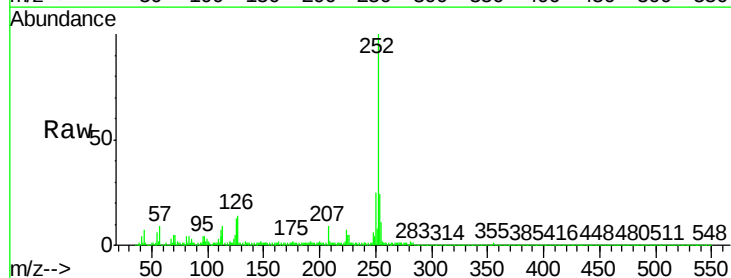
Tgt Ion:252 Resp: 917138

Ion Ratio Lower Upper

252 100

253 24.4 17.8 26.8

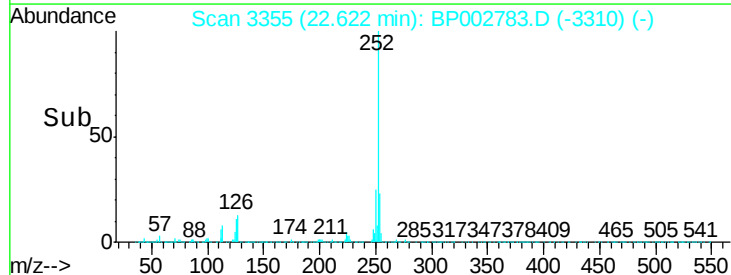
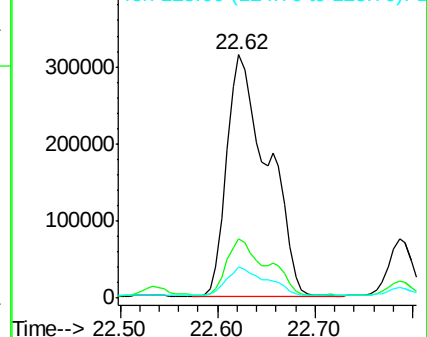
125 12.6 8.3 12.5#

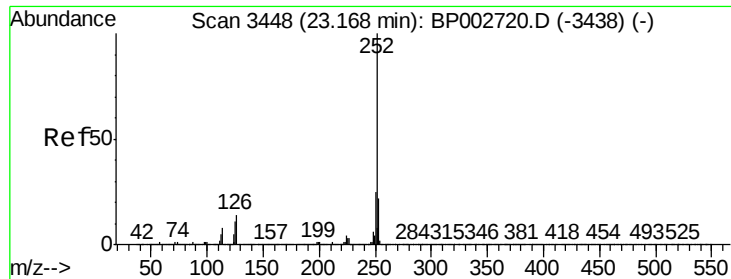


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 13.990 ng

RT: 23.18 min Scan# 3450

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

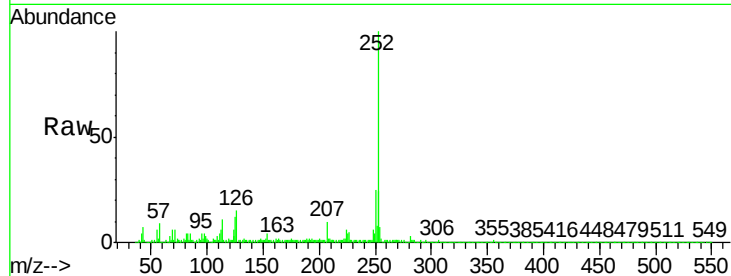
Tot Ion:252 Resp: 518877

Ion Ratio Lower Upper

252 100

253 24.1 17.6 26.4

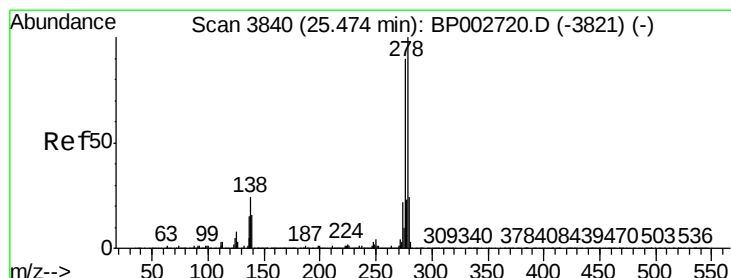
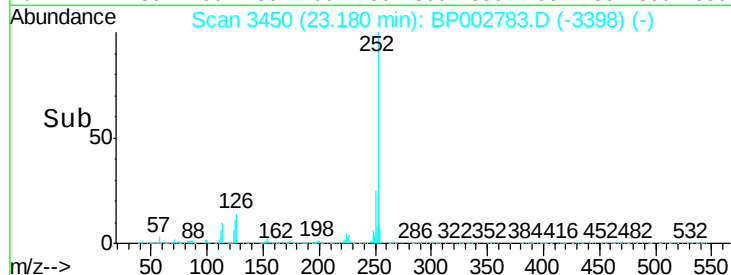
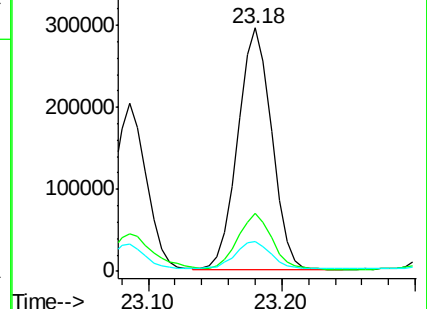
125 12.2 8.6 13.0



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: 2.625 ng

RT: 25.49 min Scan# 3842

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

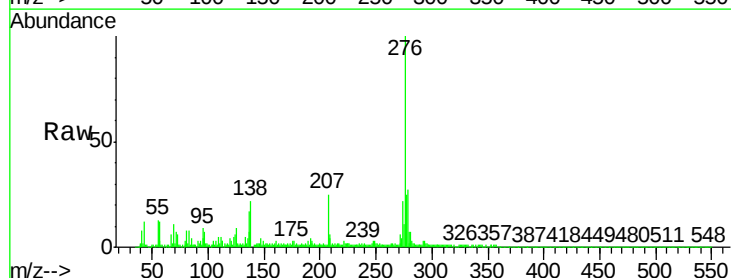
Tgt Ion:278 Resp: 96433

Ion Ratio Lower Upper

278 100

139 0.0 13.1 19.7#

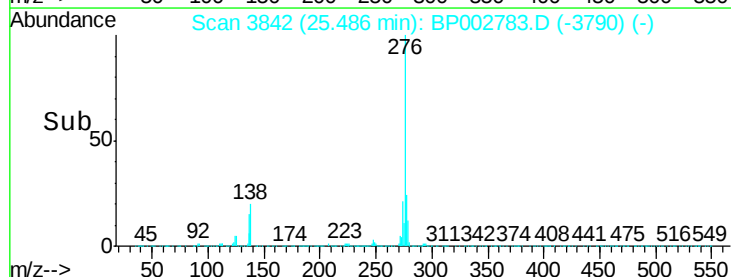
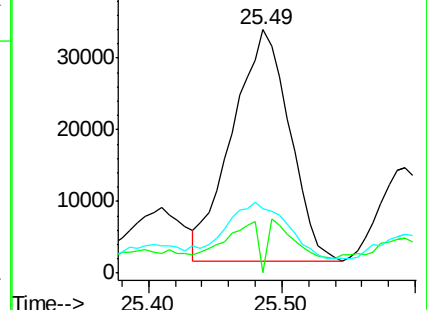
279 26.5 19.0 28.6

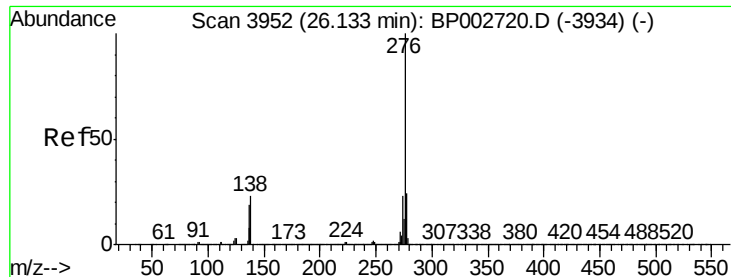


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 8.817 ng

RT: 26.16 min Scan# 3956

Delta R.T. 0.01 min

Lab File: BP002783.D

Acq: 16 Jul 2020 21:19

Instrument :

BNA_P

ClientSampleId :

OK-03-071520

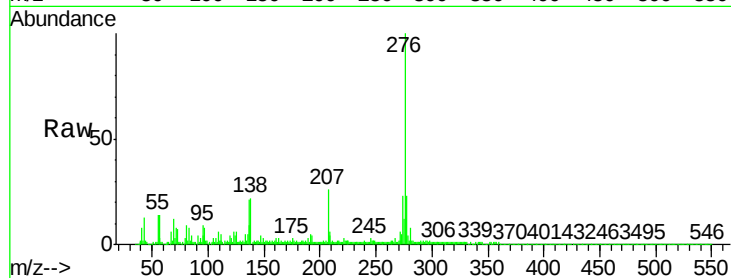
Tot Ion: 276 Resp: 328452

Ion Ratio Lower Upper

276 100

277 23.4 19.1 28.7

138 21.8 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

