

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122619\
 Data File : BP001451.D
 Acq On : 27 Dec 2019 08:22
 Operator : JU
 Sample : K6396-09DL 2X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :

Quant Time: Dec 27 10:36:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP121919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.28	152	29190	20.00	ng	0.00
21) Naphthalene-d8	10.32	136	107081	20.00	ng	0.00
39) Acenaphthene-d10	13.18	164	64119	20.00	ng	0.00
64) Phenanthrene-d10	15.58	188	114488	20.00	ng	0.00
76) Chrysene-d12	19.23	240	83526	20.00	ng	0.00
87) Perylene-d12	21.00	264	94532	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	6.20	112	45426	25.15	ng	0.00
7) Phenol-d6	7.75	99	62838	26.66	ng	0.00
23) Nitrobenzene-d5	9.16	82	41852	15.01	ng	-0.01
42) 2,4,6-Tribromophenol	14.47	330	18522	23.11	ng	0.00
45) 2-Fluorobiphenyl	12.09	172	83782	16.52	ng	0.00
79) Terphenyl-d14	17.86	244	85457	17.52	ng	-0.01

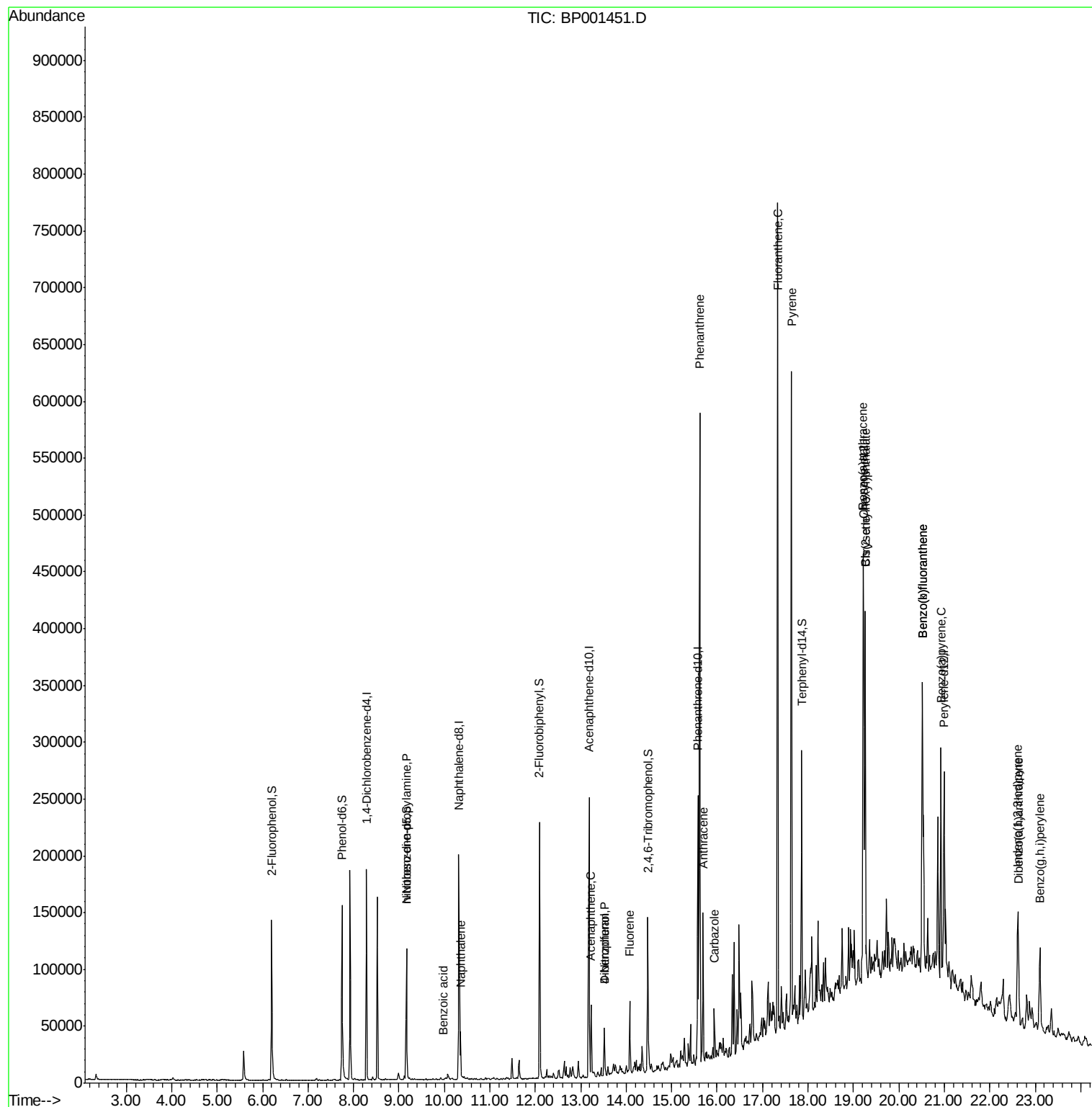
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	9.16	70	6484	3.876	ng	# 82
31) Naphthalene	10.35	128	20836	3.565	ng	100
32) Benzoic acid	9.96	122	20	5.038	ng	# 35
52) Acenaphthene	13.23	154	17002	4.450	ng	90
55) Dibenzofuran	13.52	168	18624	3.111	ng	96
56) 4-Nitrophenol	13.52	139	7805	9.521	ng	# 1
58) Fluorene	14.07	166	19720	4.119	ng	95
71) Phenanthrene	15.62	178	265472	40.643	ng	99
72) Anthracene	15.69	178	60102	9.295	ng	99
73) Carbazole	15.94	167	21945	3.807	ng	99
75) Fluoranthene	17.33	202	339122	46.431	ng	98
78) Pylene	17.64	202	291779	44.991	ng	100
81) Benzo(a)anthracene	19.22	228	144116	23.678	ng	98
83) Chrysene	19.26	228	130674	22.243	ng	97
84) Bis(2-ethylhexyl)phthalate	19.26	149	12190	2.748	ng	93
86) Indeno(1,2,3-cd)pyrene	22.62	276	76629	12.078	ng	96
88) Benzo(b)fluoranthene	20.52	252	216121	34.812	ng	100
89) Benzo(k)fluoranthene	20.52	252	216121	36.545	ng	# 99
90) Benzo(a)pyrene	20.93	252	115949	20.502	ng	98
91) Dibenzo(a,h)anthracene	22.63	278	20423	3.693	ng	# 93
92) Benzo(g,h,i)perylene	23.10	276	72498	13.721	ng	96

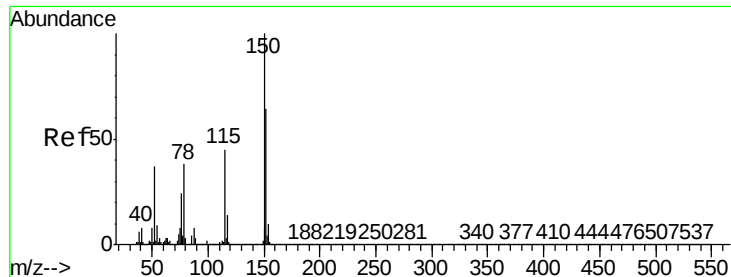
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.28 min Scan# 1053

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

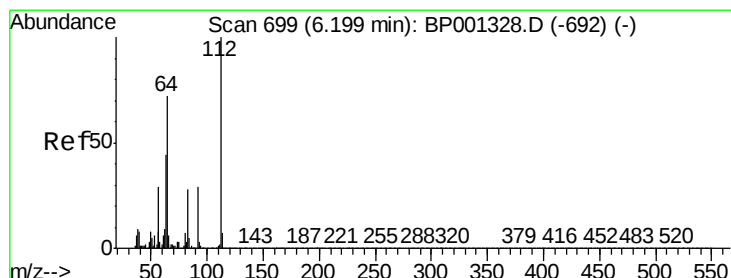
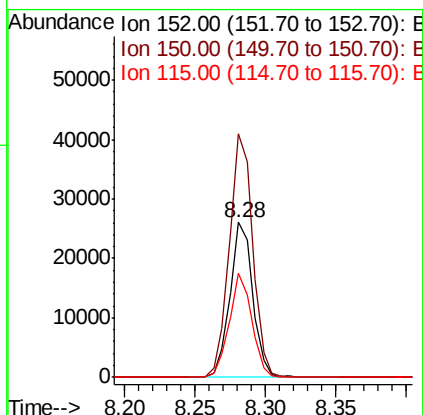
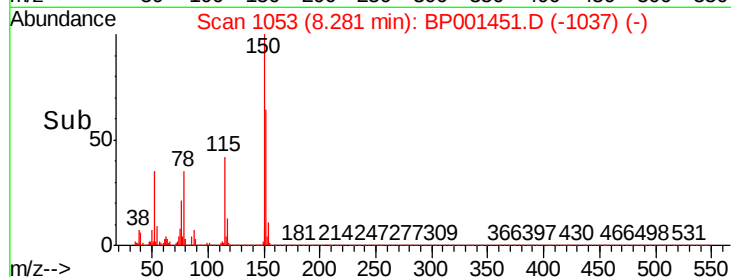
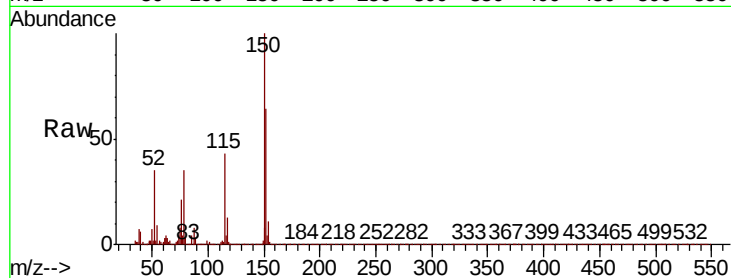
Tot Ion:152 Resp: 29190

Ion Ratio Lower Upper

152 100

150 157.3 127.0 190.6

115 66.9 56.1 84.1



#5

2-Fluorophenol

Concen: 25.151 ng

RT: 6.20 min Scan# 699

Delta R.T. -0.00 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

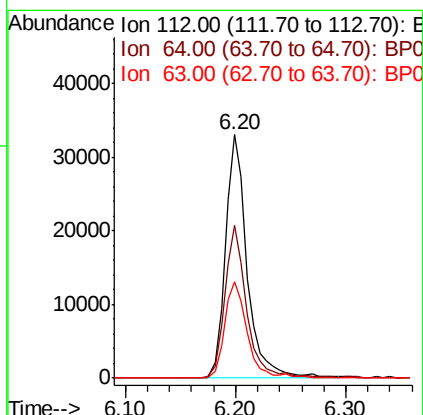
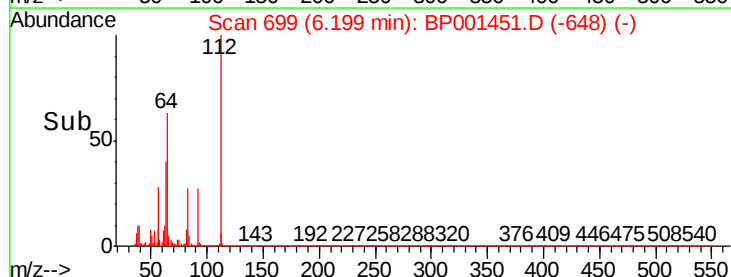
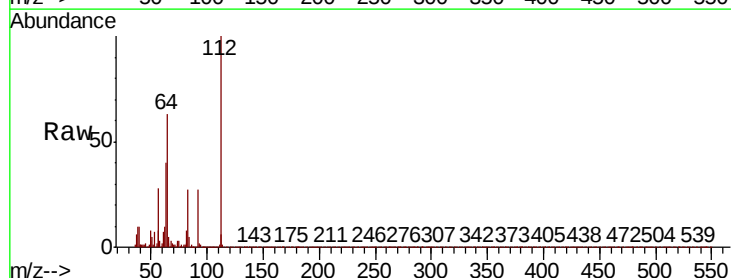
Tgt Ion:112 Resp: 45426

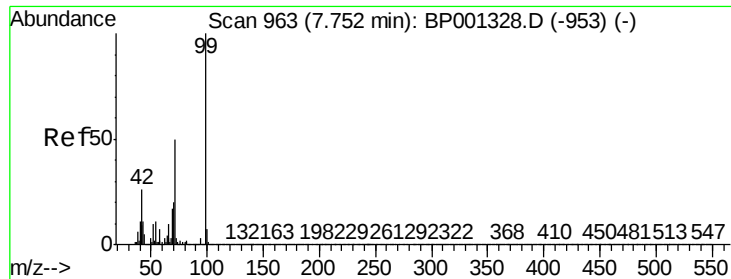
Ion Ratio Lower Upper

112 100

64 62.9 53.9 80.9

63 39.6 33.4 50.0





#7

Phenol-d6

Concen: 26.663 ng

RT: 7.75 min Scan# 962

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

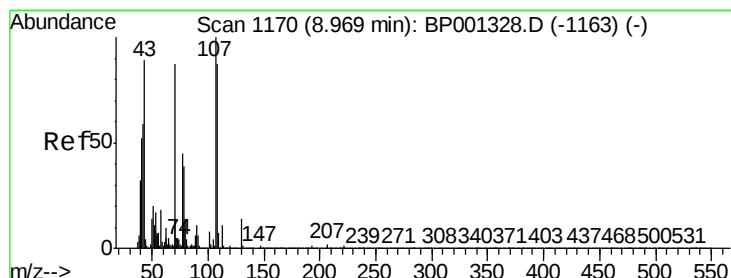
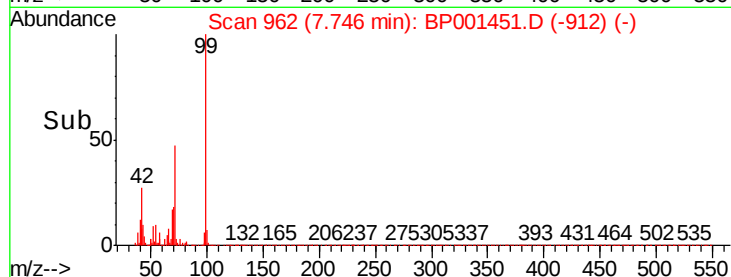
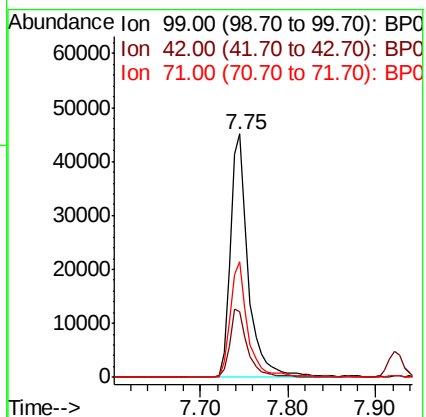
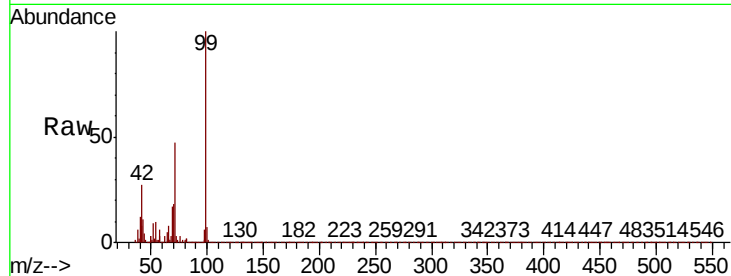
Tot Ion: 99 Resp: 62838

Ion Ratio Lower Upper

99 100

42 26.8 20.8 31.2

71 47.4 38.2 57.4



#19

n-Nitroso-di-n-propylamine

Concen: 3.876 ng

RT: 9.16 min Scan# 1203

Delta R.T. 0.21 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Tgt Ion: 70 Resp: 6484

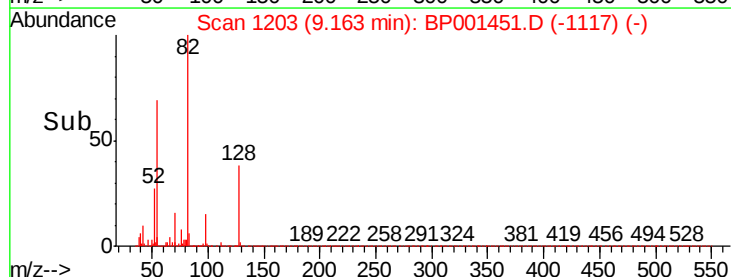
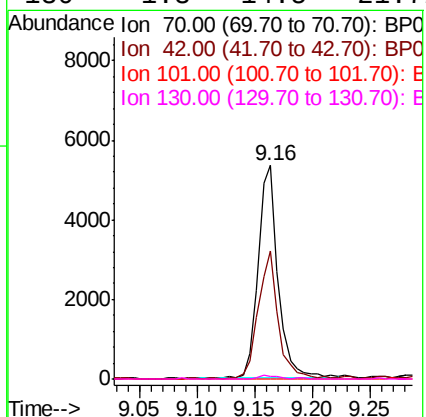
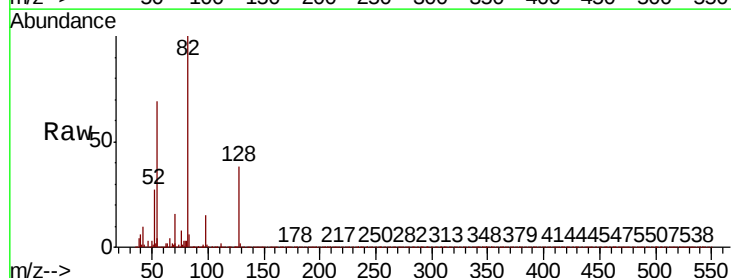
Ion Ratio Lower Upper

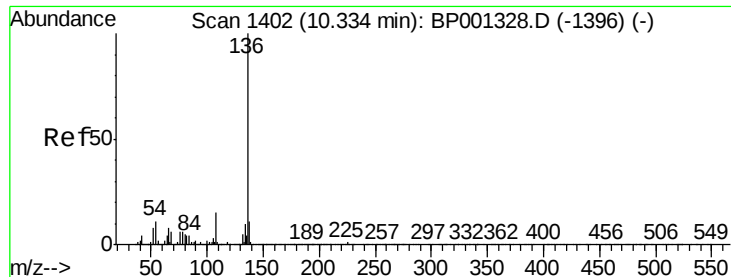
70 100

42 59.9 55.8 83.8

101 0.1 8.2 12.2#

130 1.3 14.5 21.7#

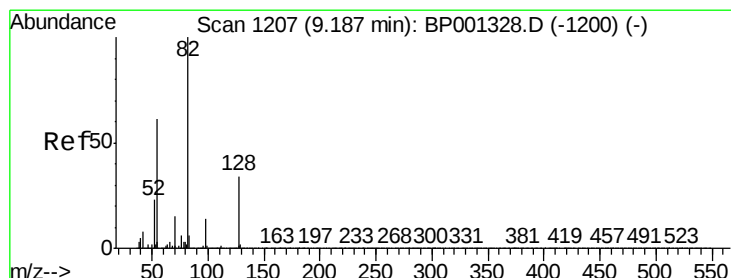
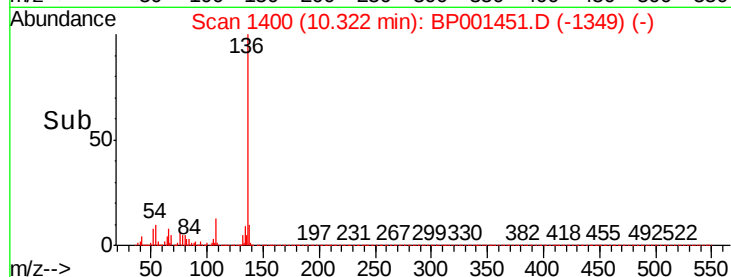
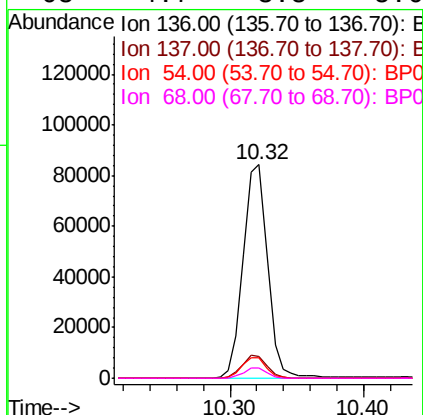
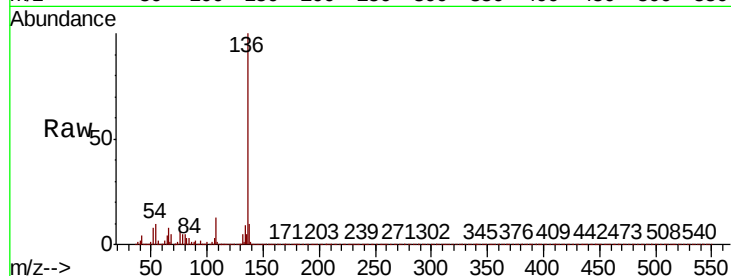




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.32 min Scan# 1400
Delta R.T. -0.00 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

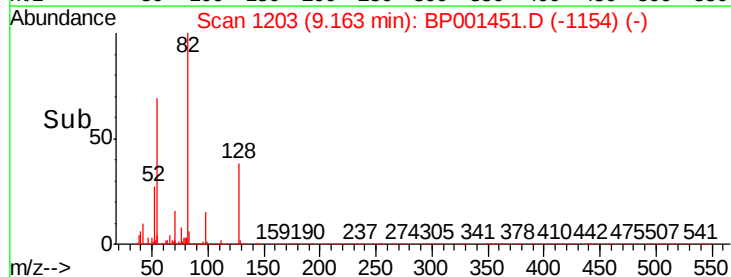
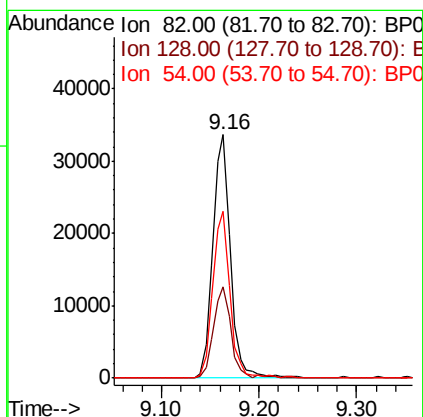
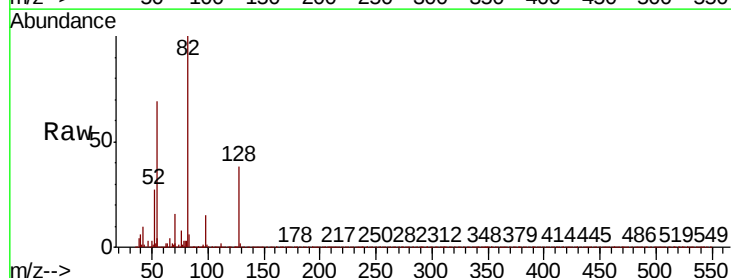
Instrument :
BNA_P
ClientSampleId :

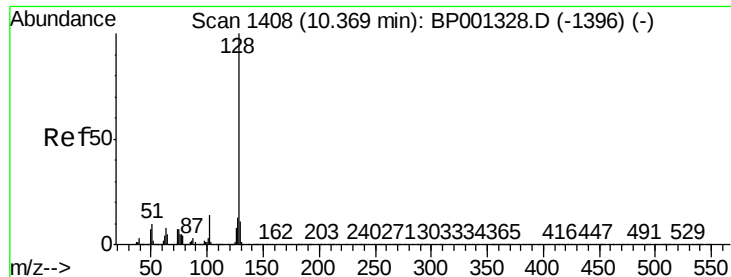
Tot Ion:136	Resp:	107081
Ion Ratio	Lower	Upper
136 100		
137 10.1	9.0	13.4
54 9.5	7.3	10.9
68 4.7	3.8	5.6



#23
Nitrobenzene-d5
Concen: 15.009 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

Tgt	Ion: 82	Resp:	41852
Ion	Ratio	Lower	Upper
82	100		
128	37.5	27.4	41.0
54	68.8	47.5	71.3

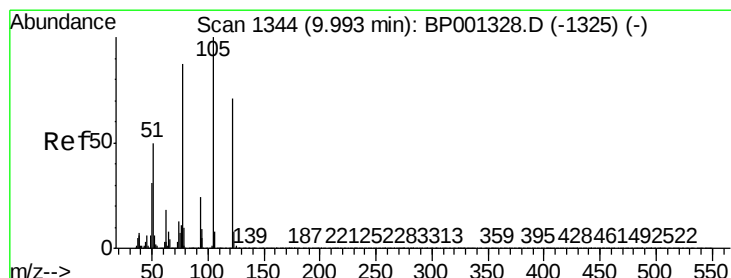
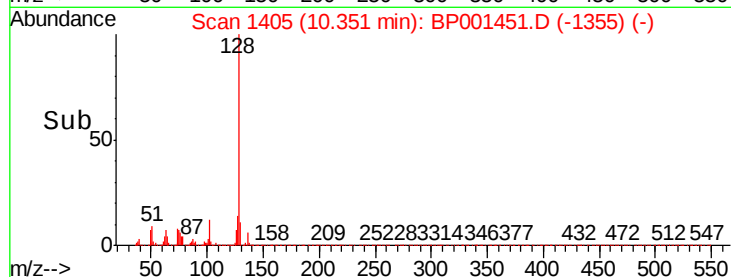
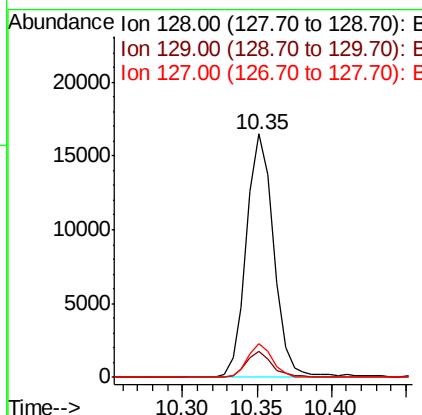
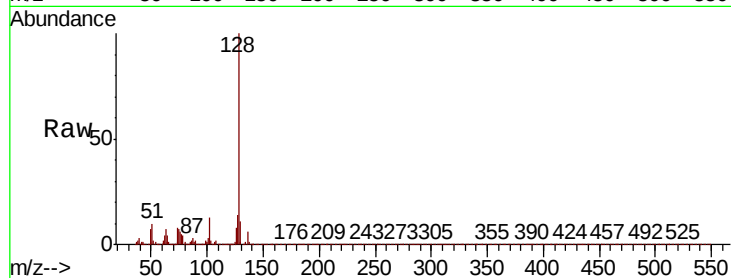




#31
Naphthalene
Concen: 3.565 ng
RT: 10.35 min Scan# 1405
Delta R.T. -0.01 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

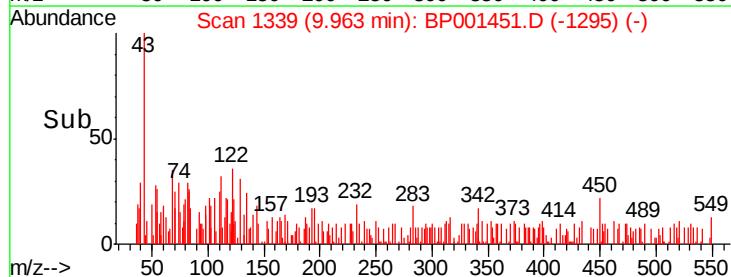
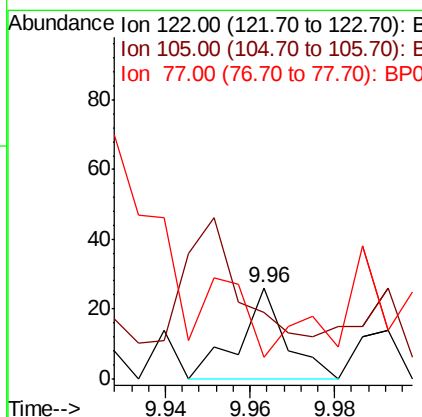
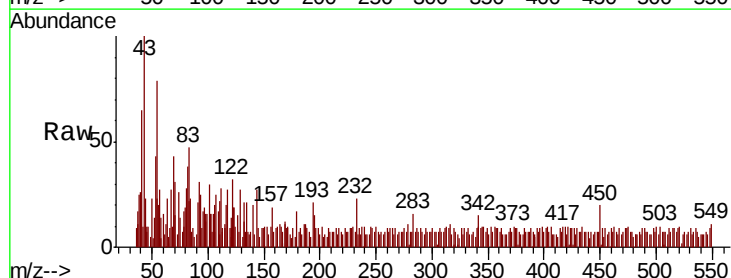
Instrument :
BNA_P
ClientSampleId :

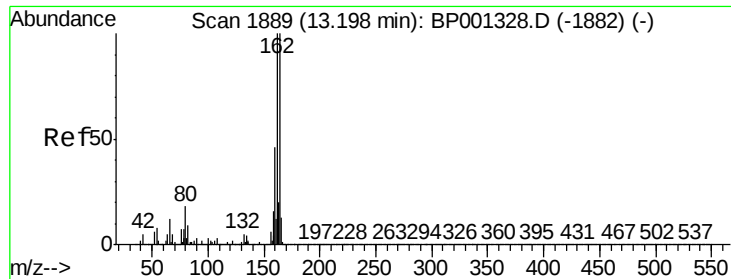
Tot	Ion:128	Resp:	20836
Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.6	12.8
127	13.9	11.0	16.6



#32
Benzoic acid
Concen: 5.038 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.04 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

Tgt Ion:122	Resp:	20
Ion Ratio	Lower	Upper
122 100		
105 73.1	117.8	157.8#
77 23.1	85.6	125.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 13.18 min Scan# 1886

Delta R.T. -0.00 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

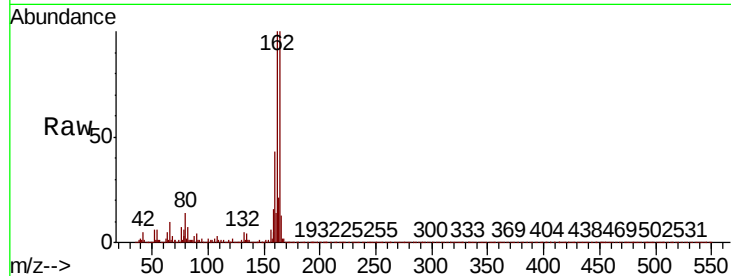
Instrument :

BNA_P

ClientSampleId :

Tot Ion:164 Resp: 64119

Ion	Ratio	Lower	Upper
164	100		
162	99.5	78.2	117.4
160	43.5	35.1	52.7

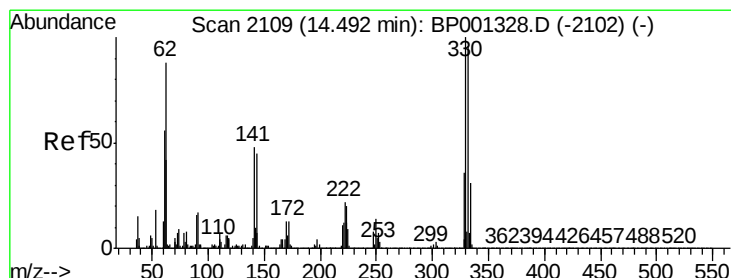
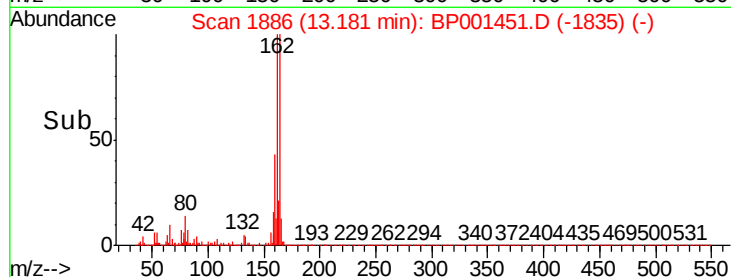
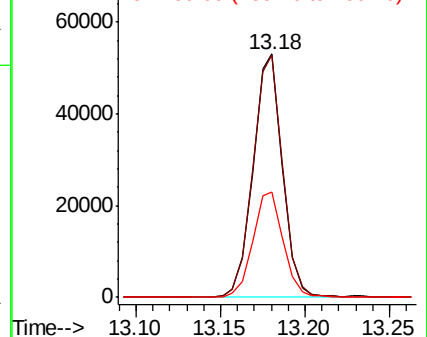


Abundance

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: 23.105 ng

RT: 14.47 min Scan# 2106

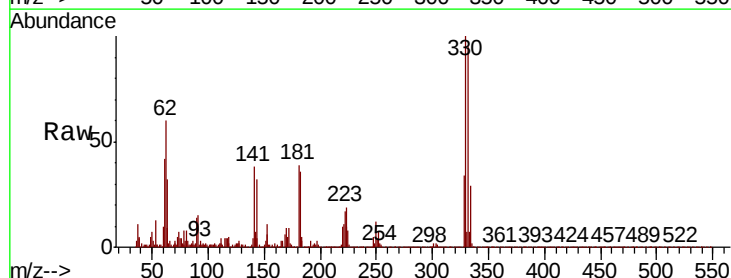
Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Tgt Ion:330 Resp: 18522

Ion	Ratio	Lower	Upper
330	100		
332	92.5	78.3	117.5
141	41.6	26.8	40.2#

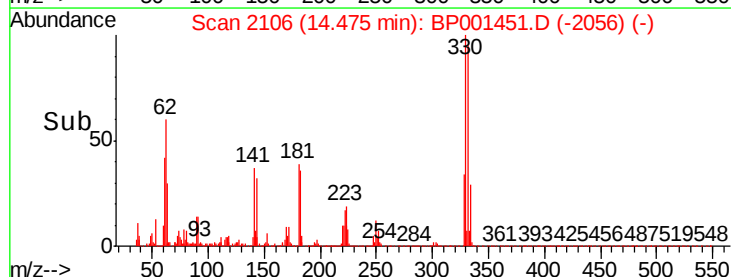
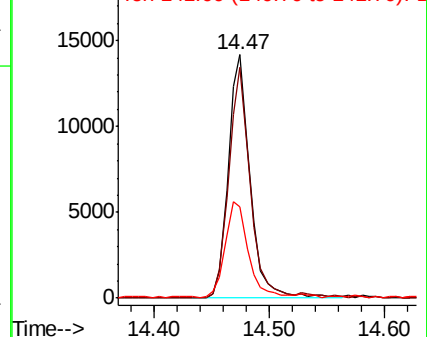


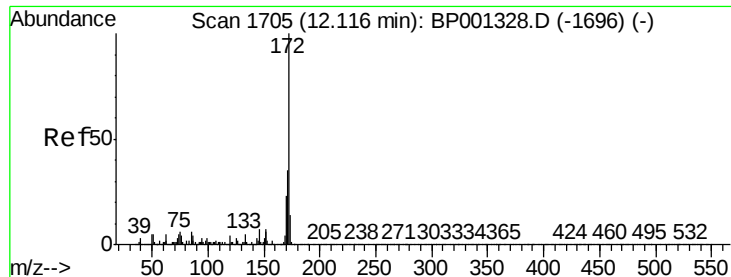
Abundance

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

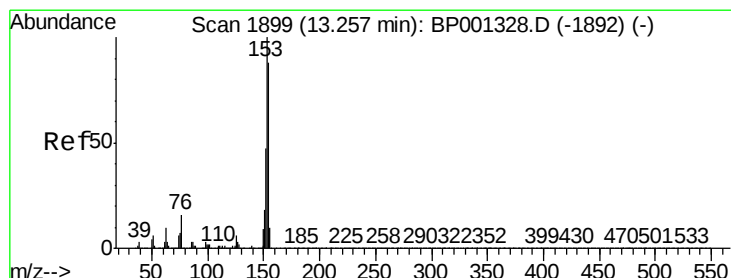
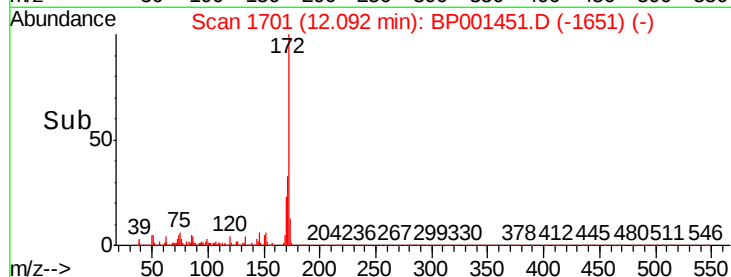
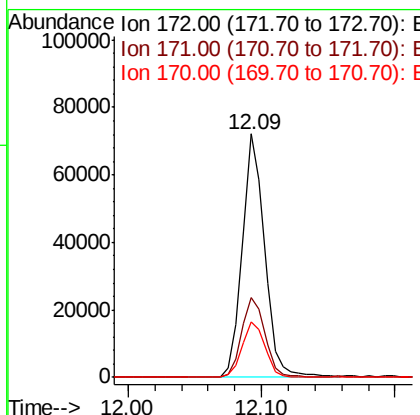
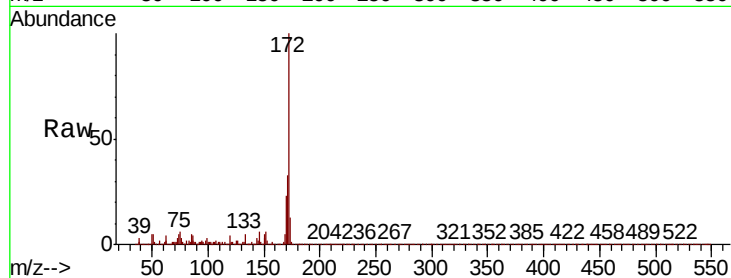




#45
2-Fluorobiphenyl
Concen: 16.523 ng
RT: 12.09 min Scan# 1701
Delta R.T. -0.01 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

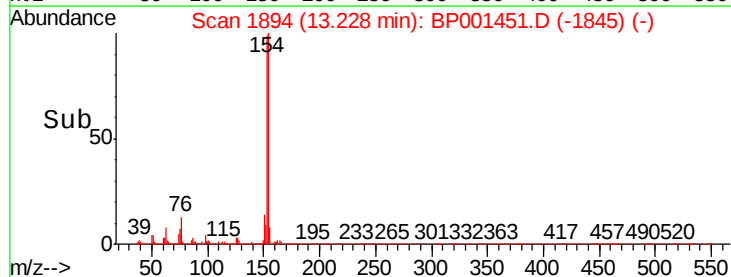
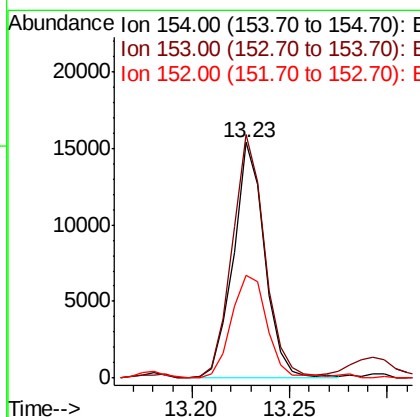
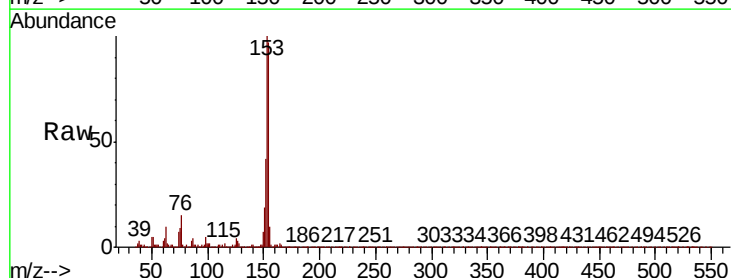
Instrument :
BNA_P
ClientSampleId :

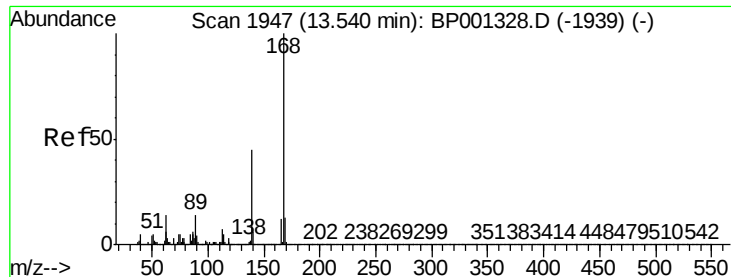
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.0	27.4	41.0
170	22.6	18.2	27.4



#52
Acenaphthene
Concen: 4.450 ng
RT: 13.23 min Scan# 1894
Delta R.T. -0.01 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

Tgt Ion	Ratio	Lower	Upper
154	100		
153	103.3	90.1	135.1
152	43.8	41.8	62.6





#55

Dibenzofuran

Concen: 3.111 ng

RT: 13.52 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

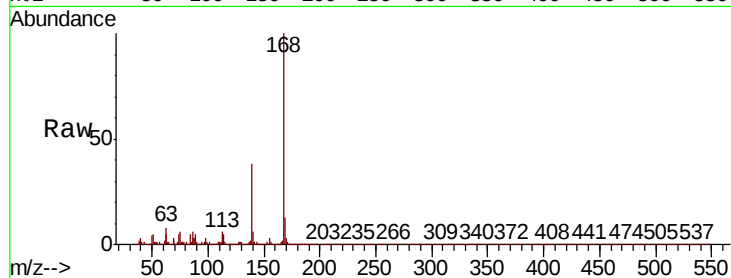
Tot Ion:168 Resp: 18624

Ion Ratio Lower Upper

168 100

139 37.7 33.0 49.4

169 13.0 10.6 16.0

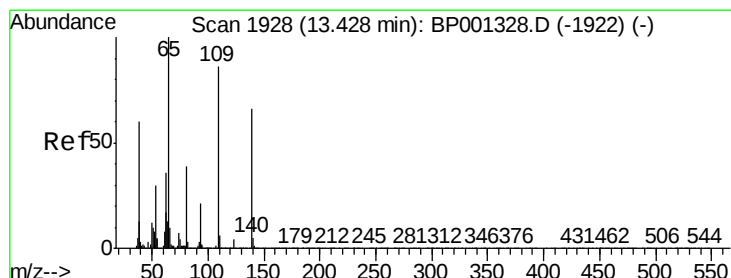
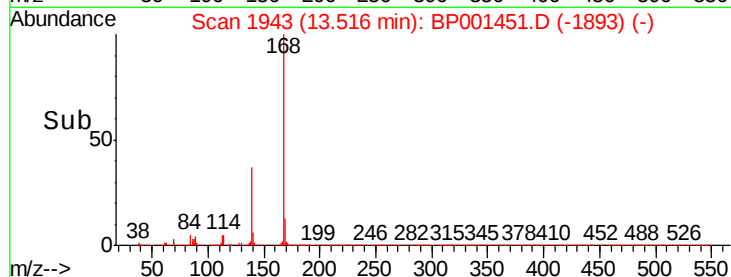
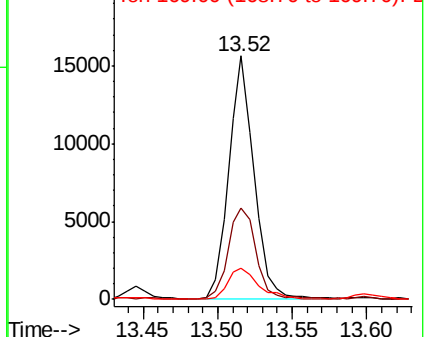


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 9.521 ng

RT: 13.52 min Scan# 1943

Delta R.T. 0.09 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

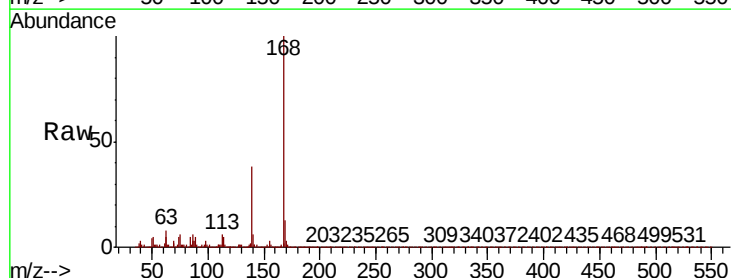
Tgt Ion:139 Resp: 7805

Ion Ratio Lower Upper

139 100

109 1.5 99.7 139.7#

65 3.0 115.0 155.0#

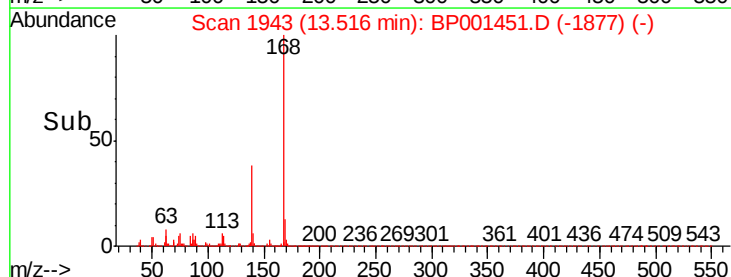
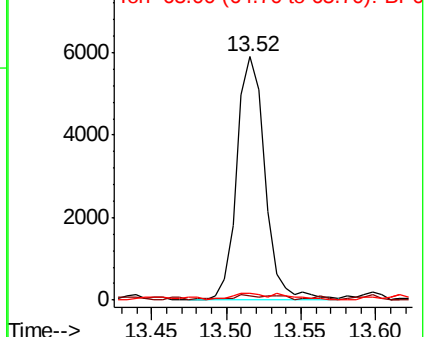


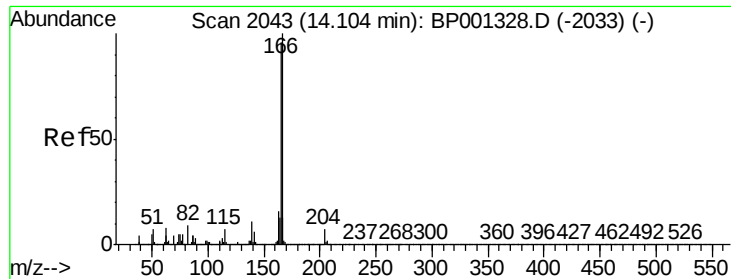
Abundance

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): BPO





#58

Fluorene

Concen: 4.119 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

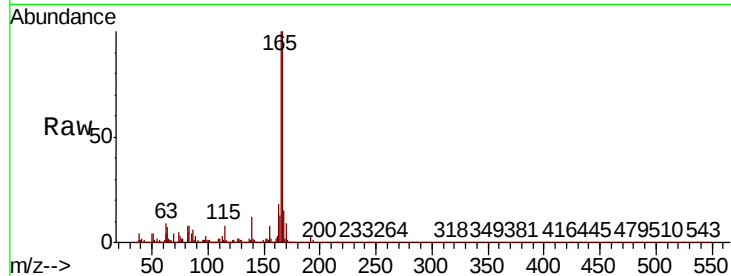
Tot Ion:166 Resp: 19720

Ion Ratio Lower Upper

166 100

165 100.3 76.6 114.8

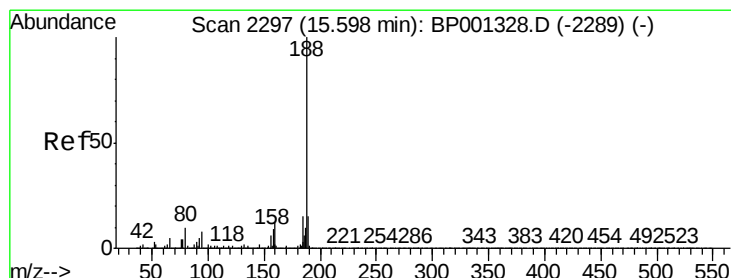
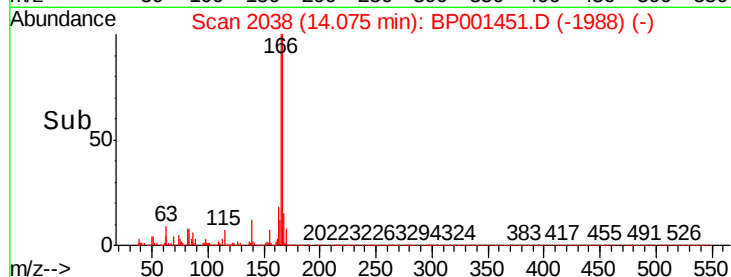
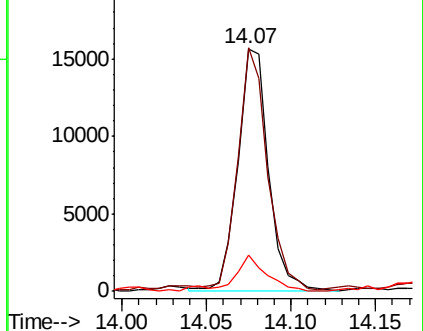
167 14.9 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 15.58 min Scan# 2294

Delta R.T. -0.00 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

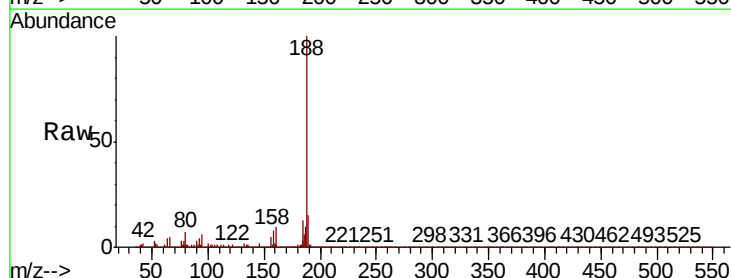
Tgt Ion:188 Resp: 114488

Ion Ratio Lower Upper

188 100

94 6.4 5.8 8.8

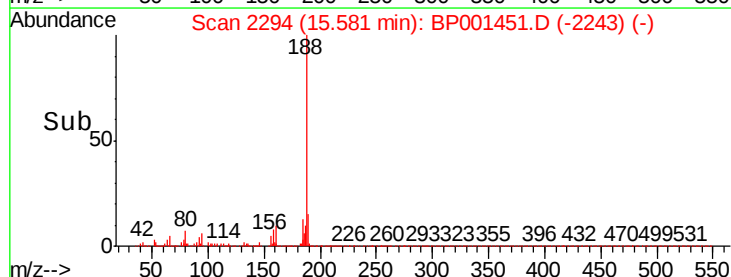
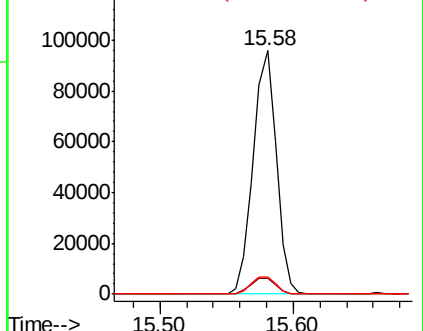
80 6.8 5.7 8.5

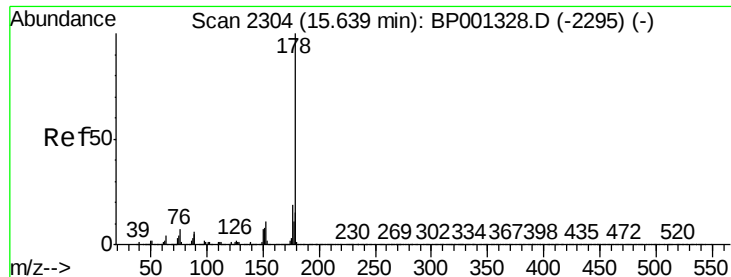


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0





#71

Phenanthrene

Concen: 40.643 ng

RT: 15.62 min Scan# 2300

Delta R.T. -0.00 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

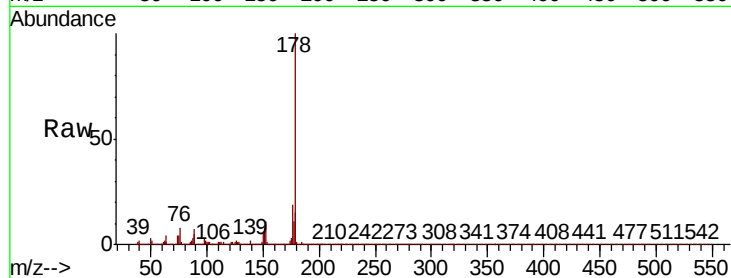
Tot Ion:178 Resp: 265472

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	15.5	12.2	18.2

178 100

176 18.7 15.4 23.0

179 15.5 12.2 18.2

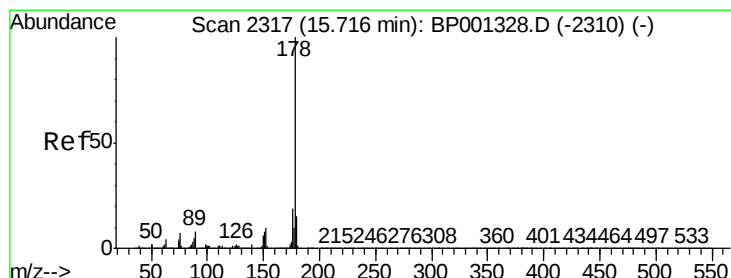
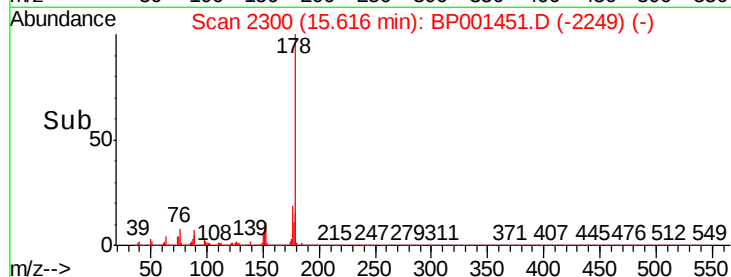
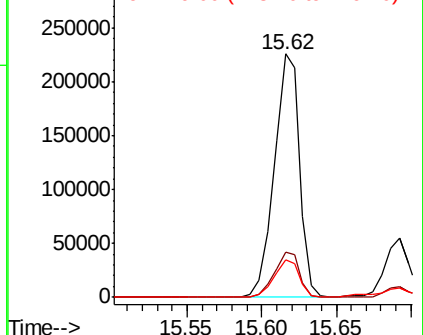


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 9.295 ng

RT: 15.69 min Scan# 2313

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

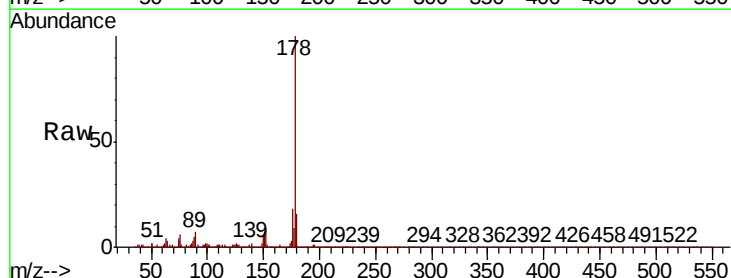
Tgt Ion:178 Resp: 60102

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.5	21.7
179	15.8	11.8	17.8

178 100

176 18.3 14.5 21.7

179 15.8 11.8 17.8

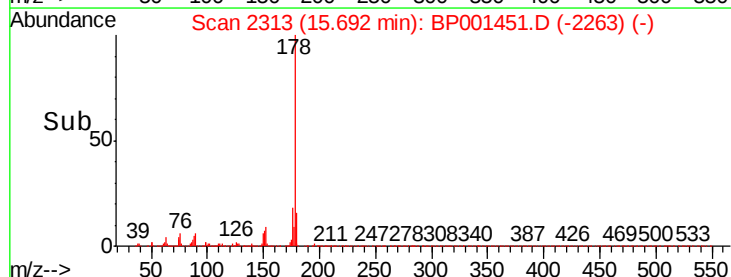
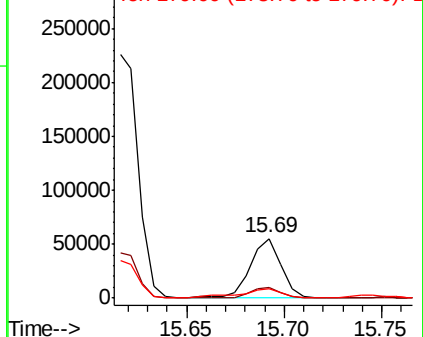


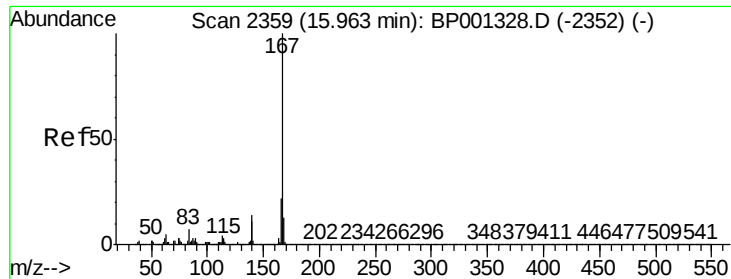
Abundance

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

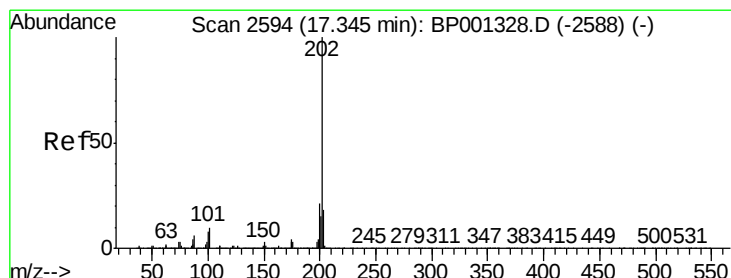
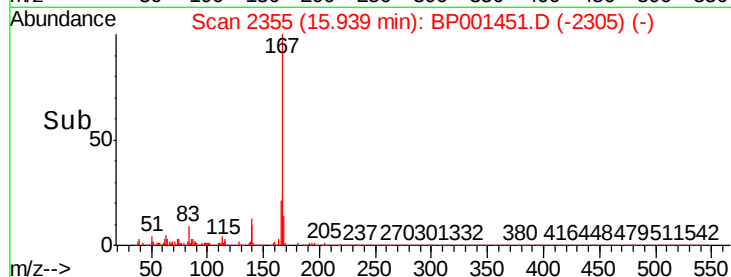
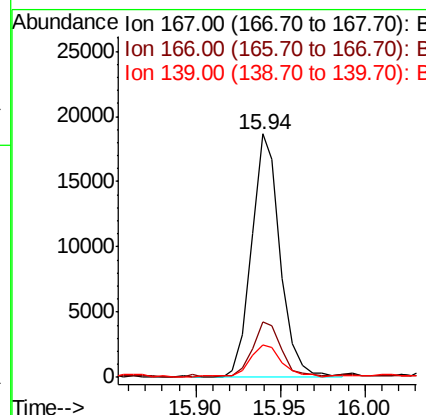
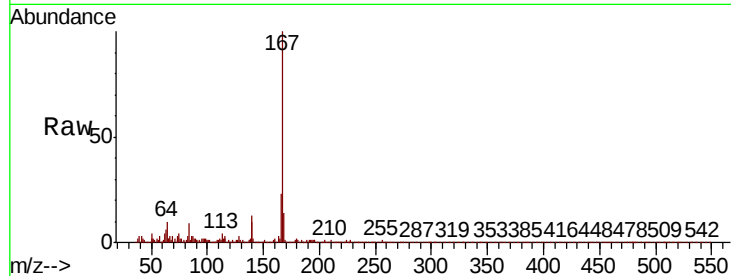




#73
 Carbazole
 Concen: 3.807 ng
 RT: 15.94 min Scan# 2355
 Delta R.T. -0.01 min
 Lab File: BP001451.D
 Acq: 27 Dec 2019 08:22

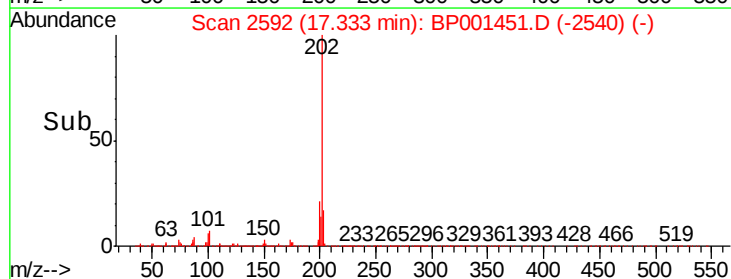
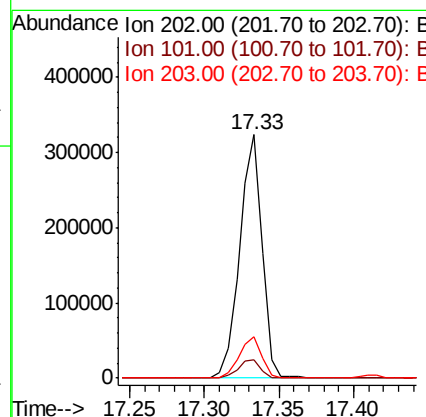
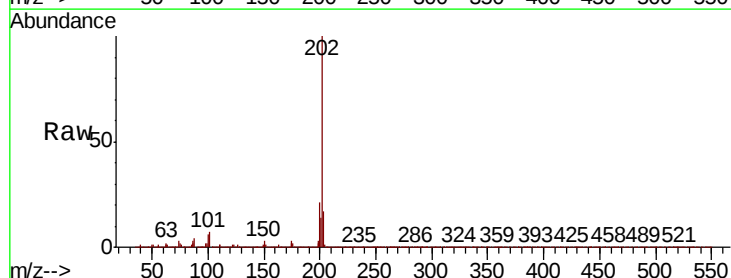
Instrument :
 BNA_P
 ClientSampleId :

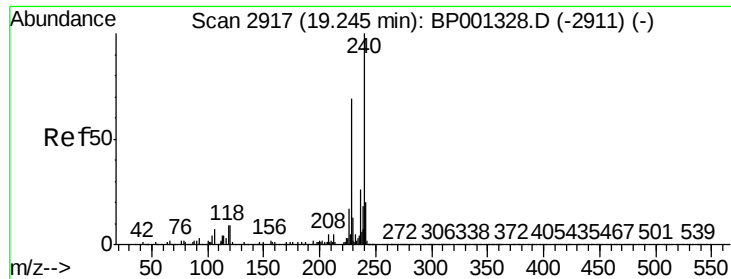
Tot Ion	167	Resp	21945
Ion Ratio	100	Lower	Upper
166	22.6	17.4	26.2
139	13.4	10.9	16.3



#75
 Fluoranthene
 Concen: 46.431 ng
 RT: 17.33 min Scan# 2592
 Delta R.T. 0.01 min
 Lab File: BP001451.D
 Acq: 27 Dec 2019 08:22

Tgt Ion	202	Resp	339122
Ion Ratio	100	Lower	Upper
101	7.4	0.0	28.7
203	16.9	0.0	37.4

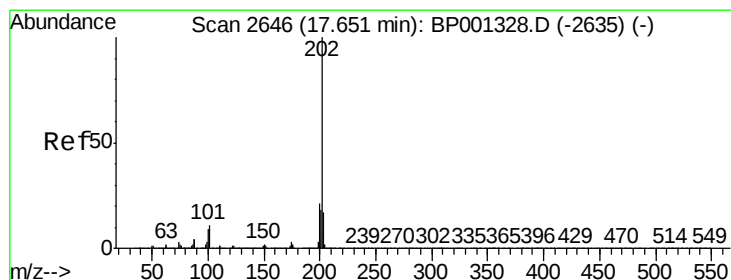
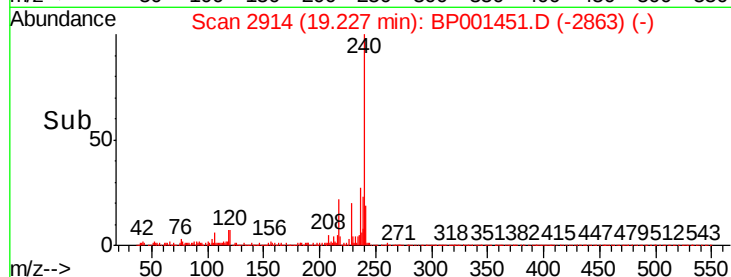
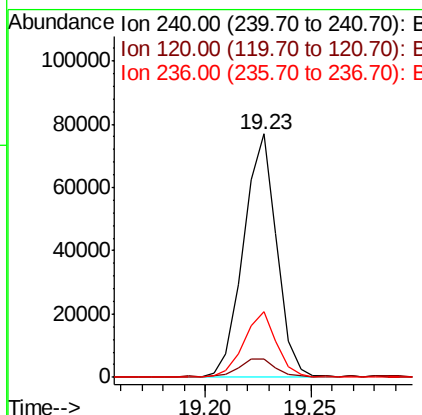
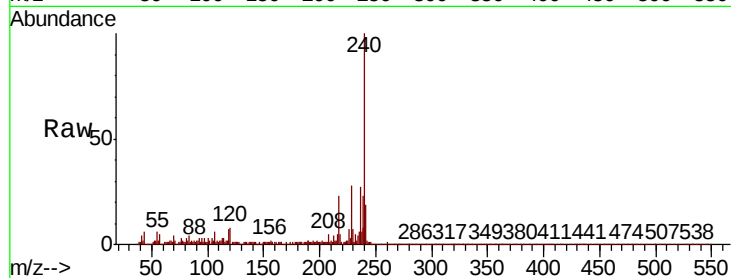




#76
Chrysene-d12
Concen: 20.000 ng
RT: 19.23 min Scan# 2914
Delta R.T. -0.00 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

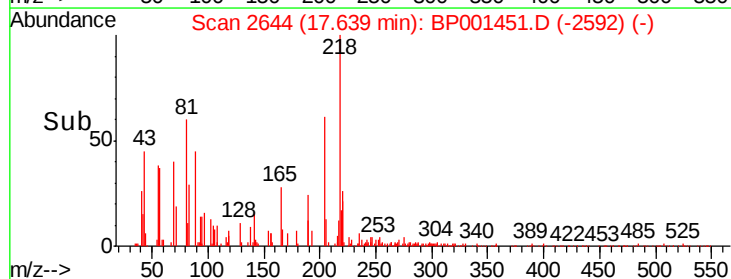
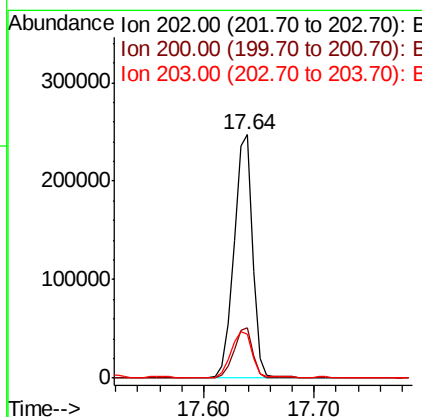
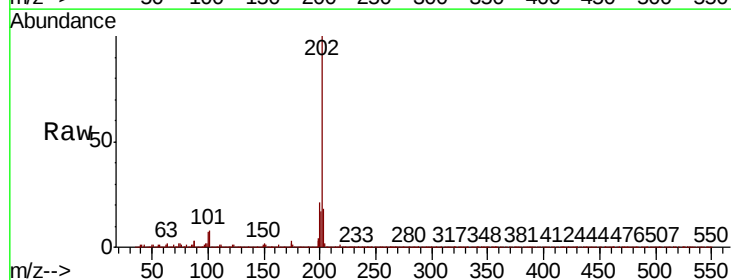
Instrument :
BNA_P
ClientSampleId :

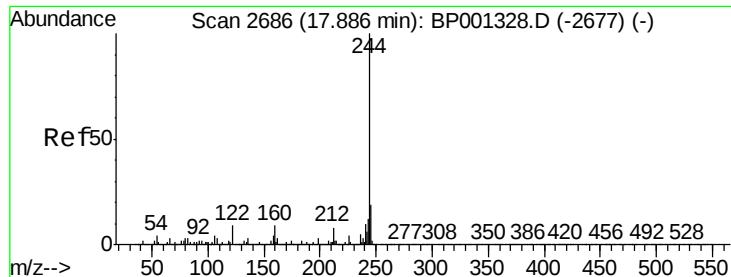
Tot Ion:240 Resp: 83526
Ion Ratio Lower Upper
240 100
120 7.5 6.2 9.2
236 26.8 20.2 30.2



#78
Pyrene
Concen: 44.991 ng
RT: 17.64 min Scan# 2644
Delta R.T. 0.01 min
Lab File: BP001451.D
Acq: 27 Dec 2019 08:22

Tgt Ion:202 Resp: 291779
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 18.0 14.3 21.5

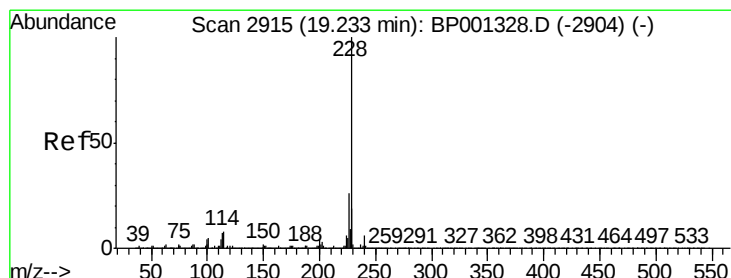
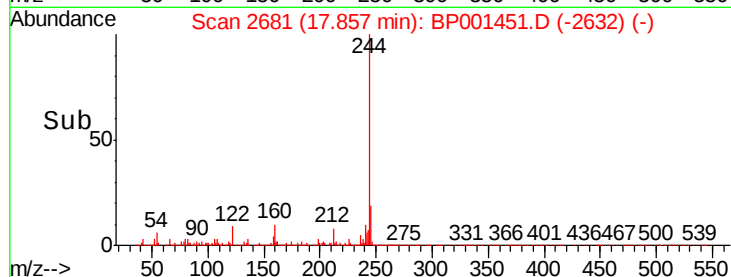
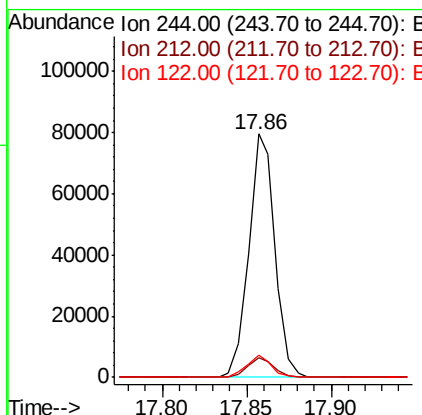
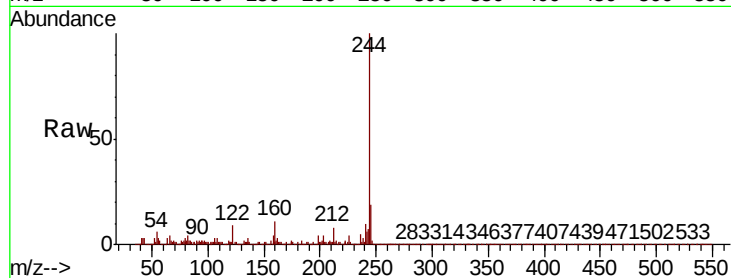




#79
 Terphenyl-d14
 Concen: 17.524 ng
 RT: 17.86 min Scan# 2681
 Delta R.T. -0.01 min
 Lab File: BP001451.D
 Acq: 27 Dec 2019 08:22

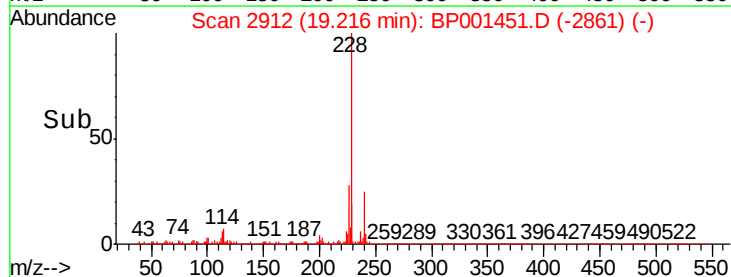
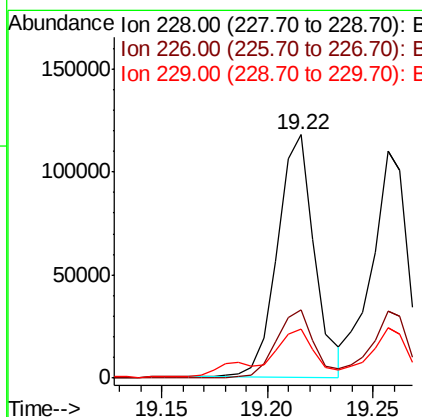
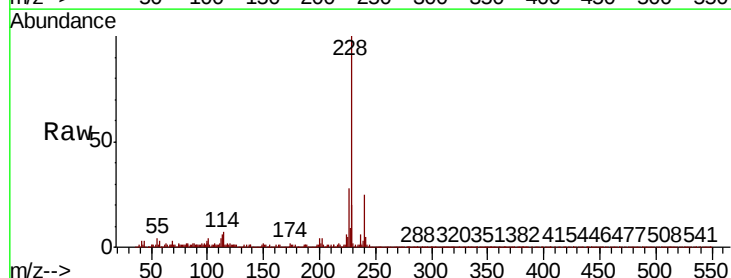
Instrument :
 BNA_P
 ClientSampled :

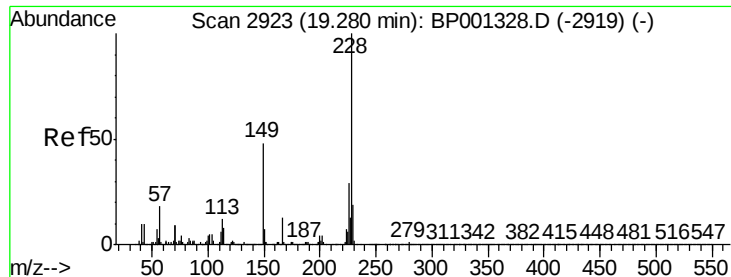
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.1	5.8	8.8
122	8.9	6.4	9.6



#81
 Benzo(a)anthracene
 Concen: 23.678 ng
 RT: 19.22 min Scan# 2912
 Delta R.T. -0.00 min
 Lab File: BP001451.D
 Acq: 27 Dec 2019 08:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	21.4	32.2
229	20.0	15.7	23.5





#83

Chrysene

Concen: 22.243 ng

RT: 19.26 min Scan# 2919

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

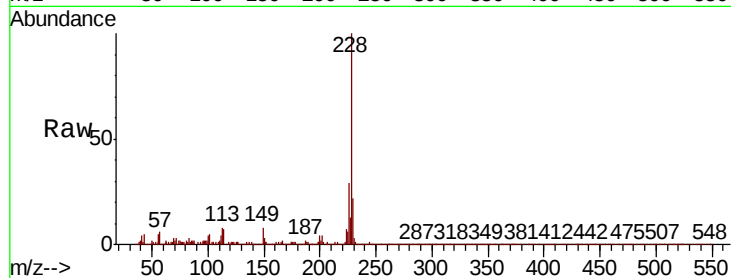
Tot Ion:228 Resp: 130674

Ion Ratio Lower Upper

228 100

226 29.3 23.4 35.2

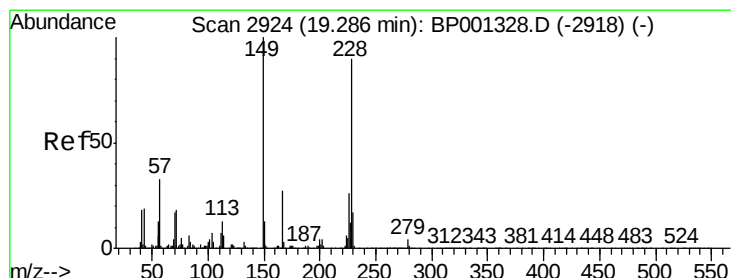
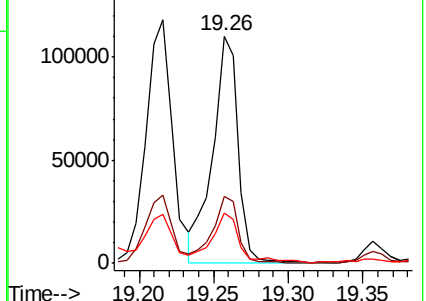
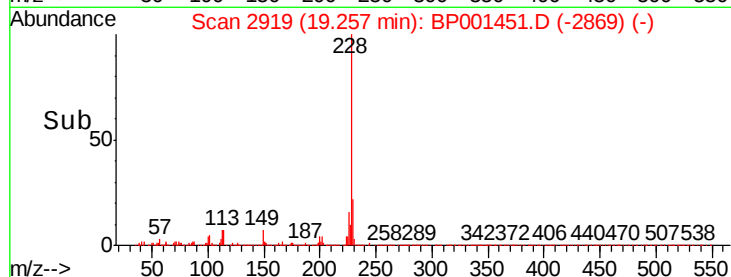
229 22.4 15.5 23.3



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.748 ng

RT: 19.26 min Scan# 2920

Delta R.T. -0.00 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

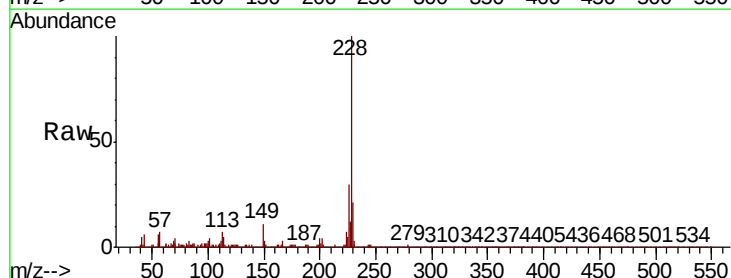
Tgt Ion:149 Resp: 12190

Ion Ratio Lower Upper

149 100

167 30.4 21.4 32.0

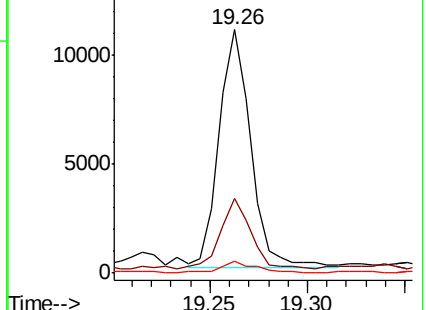
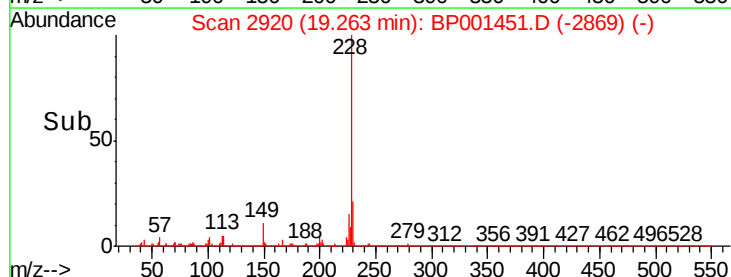
279 4.7 3.2 4.8

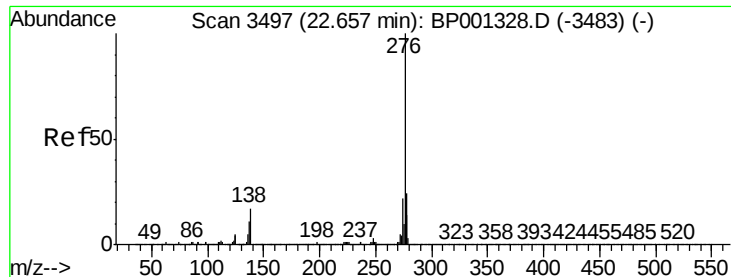


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

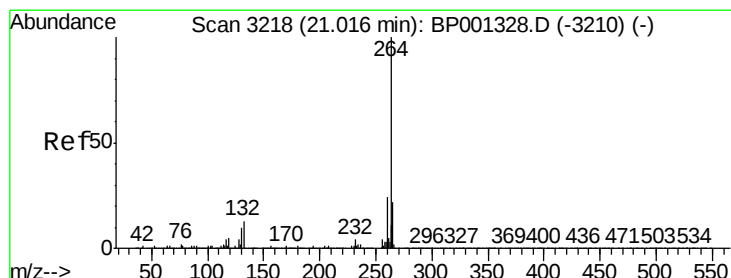
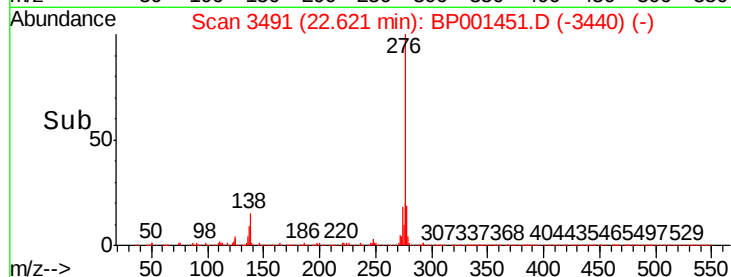
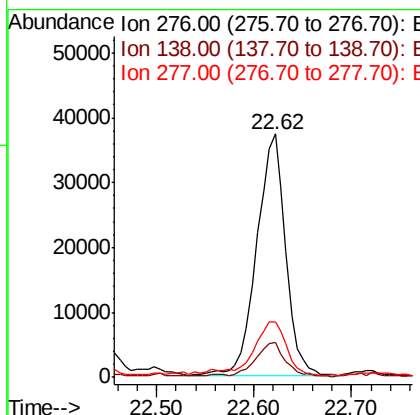
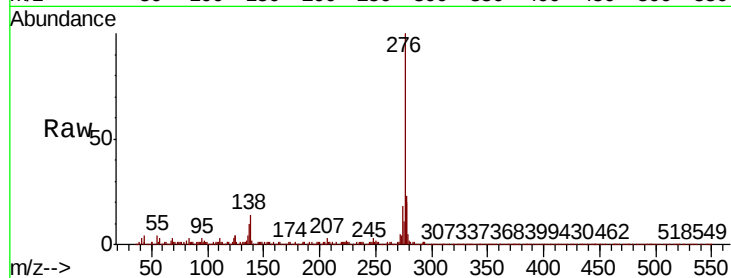




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 12.078 ng
 RT: 22.62 min Scan# 3491
 Delta R.T. -0.00 min
 Lab File: BP001451.D
 Acq: 27 Dec 2019 08:22

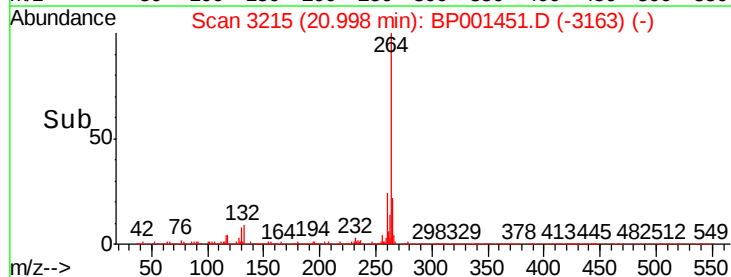
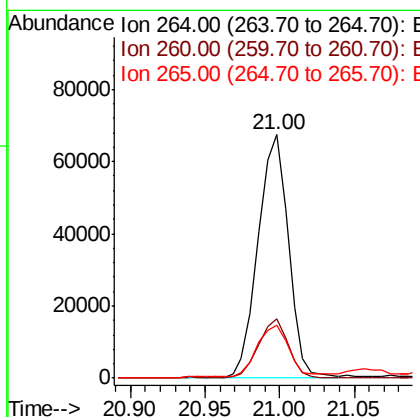
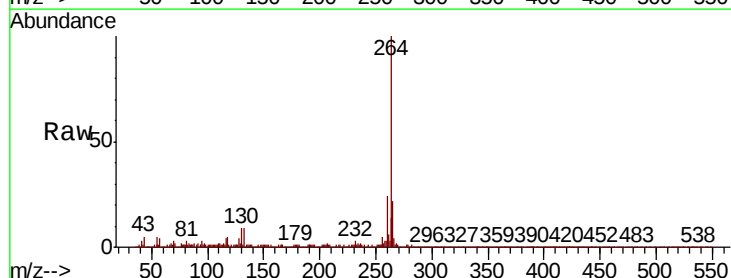
Instrument :
 BNA_P
 ClientSampleId :

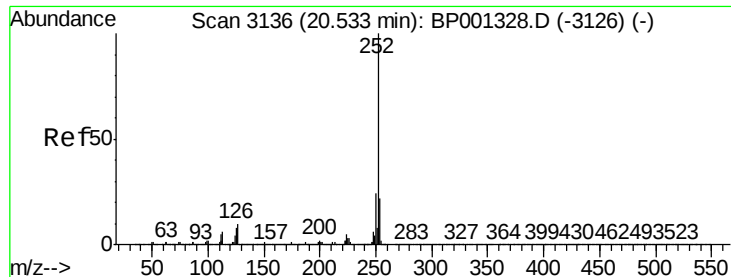
Tot Ion	Ratio	Lower	Upper
276	100		
138	14.1	12.8	19.2
277	26.9	19.9	29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 21.00 min Scan# 3215
 Delta R.T. 0.01 min
 Lab File: BP001451.D
 Acq: 27 Dec 2019 08:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.0	28.4
265	21.6	17.0	25.4





#88

Benzo(b)fluoranthene

Concen: 34.812 ng

RT: 20.52 min Scan# 3133

Delta R.T. 0.01 min

Lab File: BP001451.D

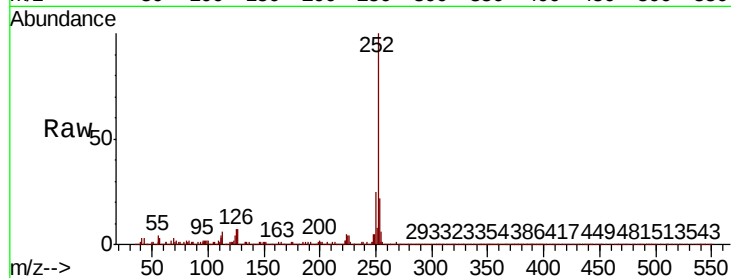
Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampled :

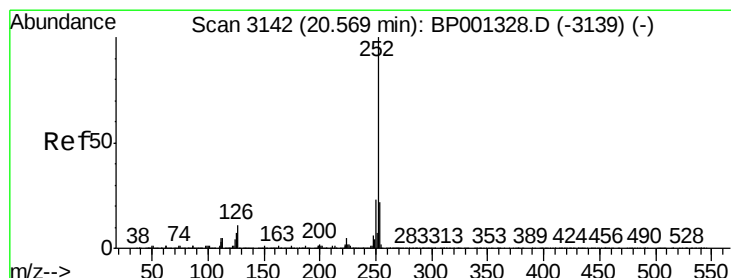
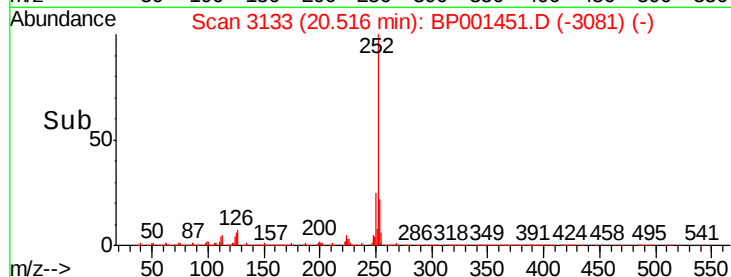
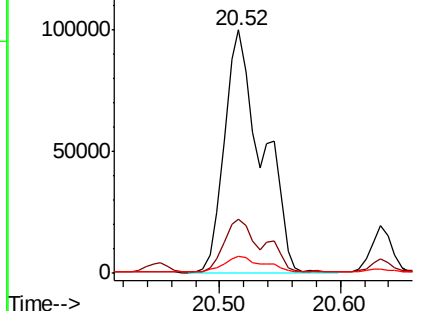
Tot Ion:	252	Resp:	216121
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	7.1	5.6	8.4



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: 36.545 ng

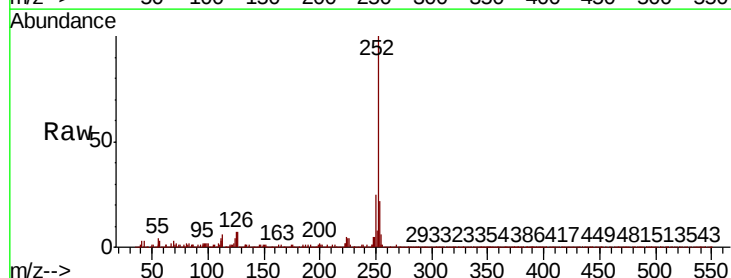
RT: 20.52 min Scan# 3133

Delta R.T. -0.04 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

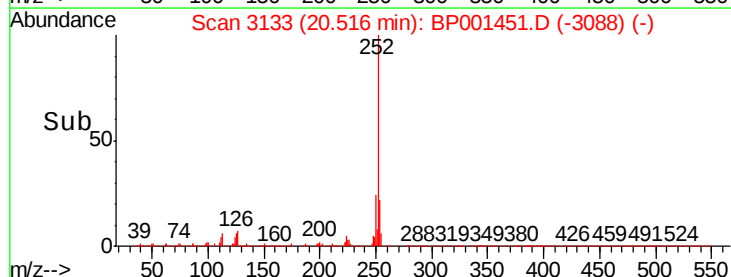
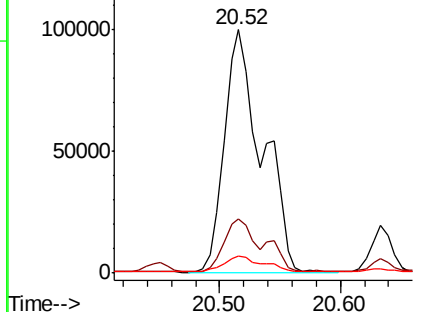
Tgt Ion:	252	Resp:	216121
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.2
125	7.1	4.5	6.7#

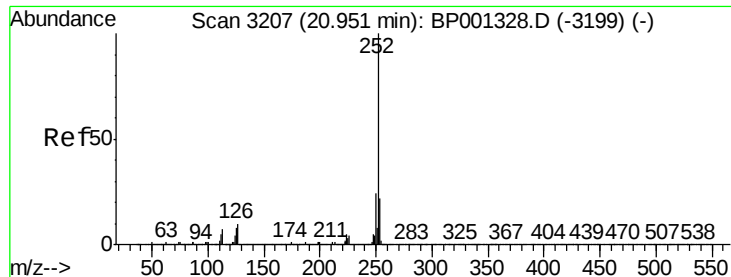


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 20.502 ng

RT: 20.93 min Scan# 3203

Delta R.T. -0.00 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

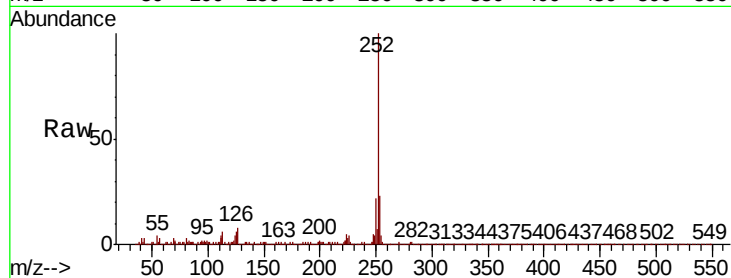
Instrument :

BNA_P

ClientSampleId :

Tot Ion:252 Resp: 115949

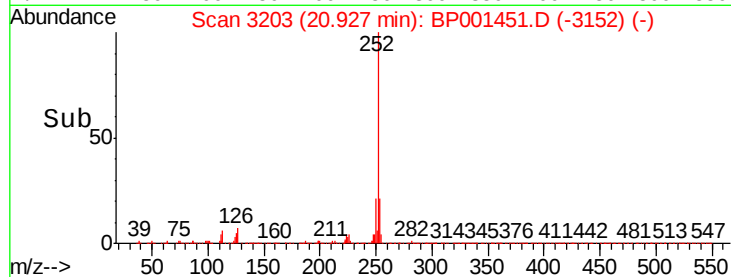
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	6.5	5.2	7.8



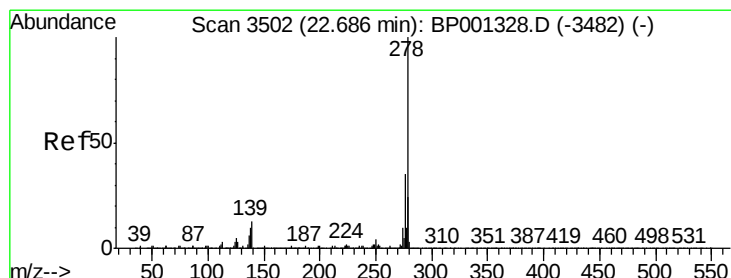
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#91

Dibenzo(a,h)anthracene

Concen: 3.693 ng

RT: 22.63 min Scan# 3493

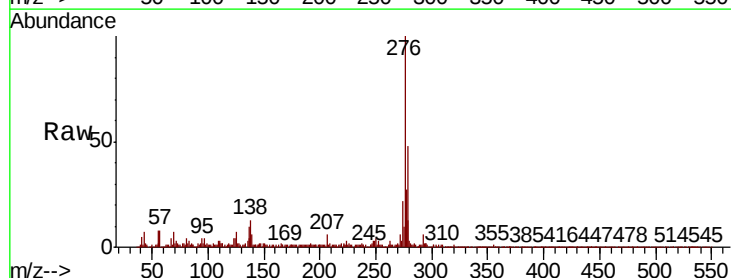
Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Tgt Ion:278 Resp: 20423

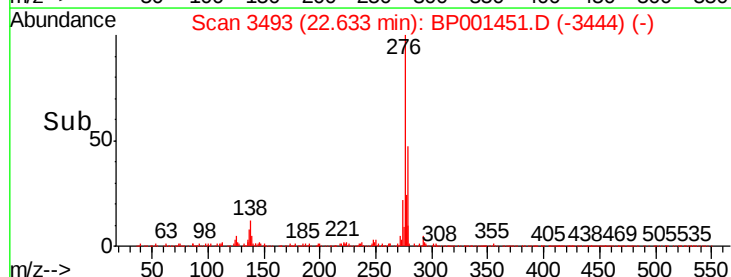
Ion	Ratio	Lower	Upper
278	100		
139	12.8	8.3	12.5#
279	27.8	19.1	28.7



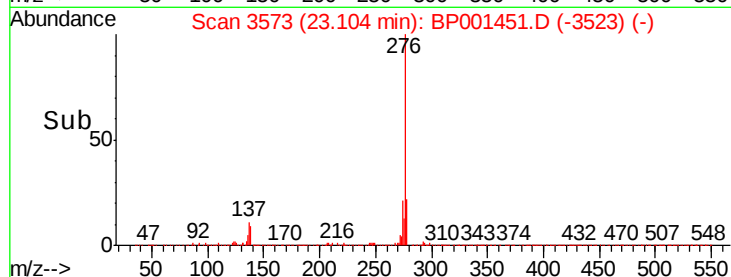
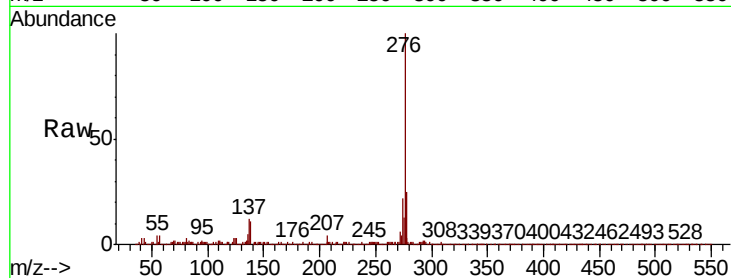
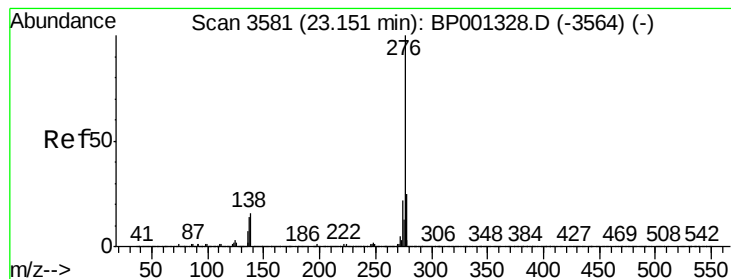
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#92

Benzo(a,h,i)perylene

Concen: 13.721 ng

RT: 23.10 min Scan# 3573

Delta R.T. -0.01 min

Lab File: BP001451.D

Acq: 27 Dec 2019 08:22

Instrument :

BNA_P

ClientSampleId :

Tot Ion:276 Resp: 72498

Ion Ratio Lower Upper

276 100

277 25.0 18.6 27.8

138 11.4 10.5 15.7

