

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122619\
 Data File : BP001452.D
 Acq On : 27 Dec 2019 08:52
 Operator : JU
 Sample : K6399-01DL 20X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :

Quant Time: Dec 27 10:36:52 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

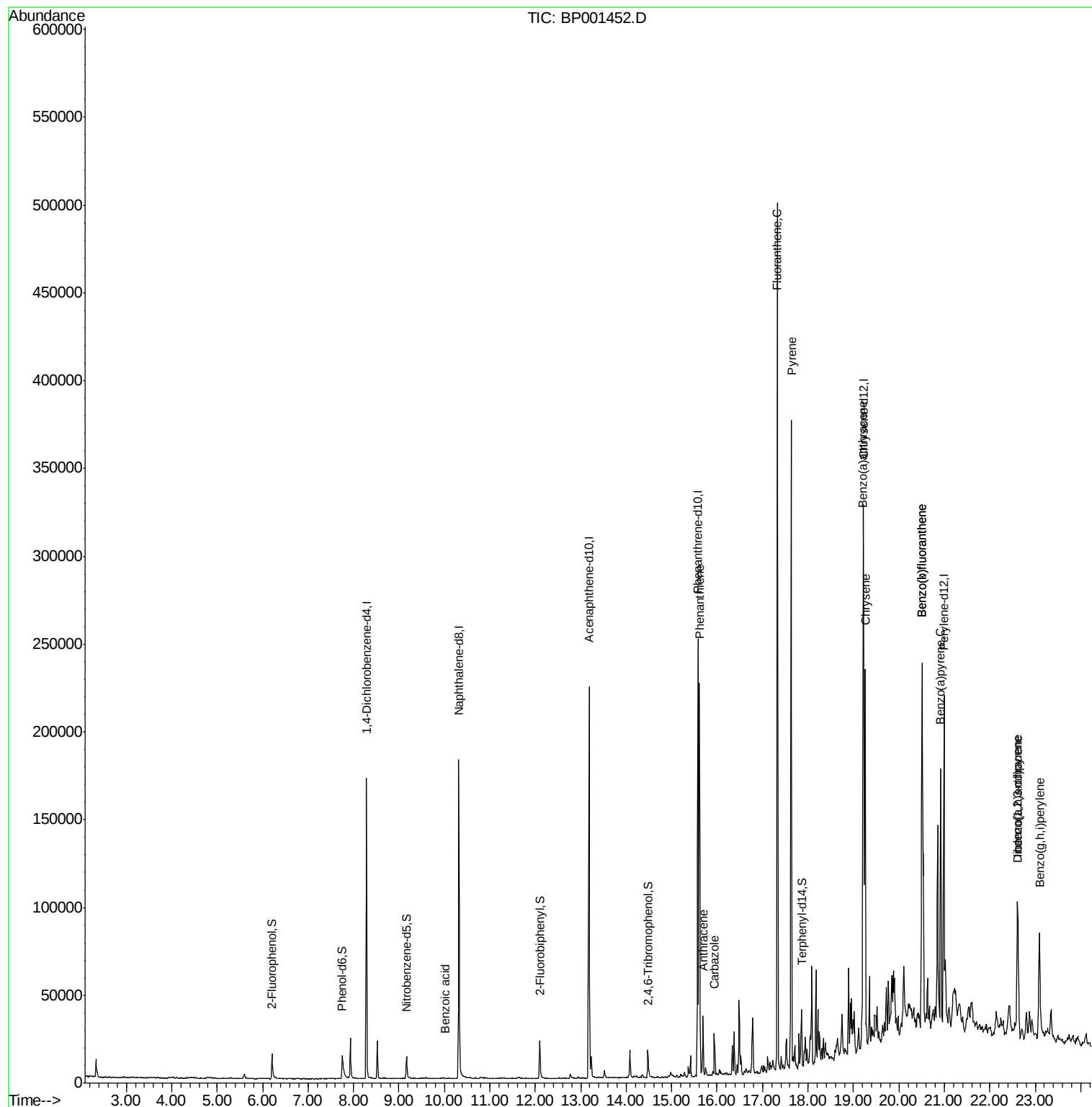
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.28	152	28948	20.00	ng	0.00
21) Naphthalene-d8	10.32	136	101335	20.00	ng	0.00
39) Acenaphthene-d10	13.18	164	61121	20.00	ng	0.00
64) Phenanthrene-d10	15.58	188	117359	20.00	ng	0.00
76) Chrysene-d12	19.22	240	91252	20.00	ng	0.00
87) Perylene-d12	20.99	264	96165	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	6.20	112	5601	3.13	ng	0.00
7) Phenol-d6	7.75	99	8401	3.59	ng	0.00
23) Nitrobenzene-d5	9.16	82	6227	2.36	ng	-0.01
42) 2,4,6-Tribromophenol	14.48	330	2444	3.20	ng	0.00
45) 2-Fluorobiphenyl	12.10	172	10707	2.22	ng	0.00
79) Terphenyl-d14	17.86	244	11676	2.19	ng	-0.01
Target Compounds						
32) Benzoic acid	10.00	122	8	5.029	ng	Qvalue # 47
71) Phenanthrene	15.62	178	107538	16.061	ng	98
72) Anthracene	15.69	178	17509	2.642	ng	97
73) Carbazole	15.95	167	13273	2.246	ng	98
75) Fluoranthene	17.33	202	226762	30.288	ng	99
78) Pyrene	17.63	202	178684	25.220	ng	99
81) Benzo(a)anthracene	19.21	228	84381	12.690	ng	99
83) Chrysene	19.26	228	101237	15.774	ng	96
86) Indeno(1,2,3-cd)pyrene	22.61	276	62431	9.007	ng	97
88) Benzo(b)fluoranthene	20.51	252	172971	27.388	ng	98
89) Benzo(k)fluoranthene	20.51	252	172971	28.752	ng	98
90) Benzo(a)pyrene	20.92	252	78939	13.721	ng	98
91) Dibenzo(a,h)anthracene	22.62	278	15520	2.759	ng	99
92) Benzo(g,h,i)perylene	23.09	276	58529	10.889	ng	99

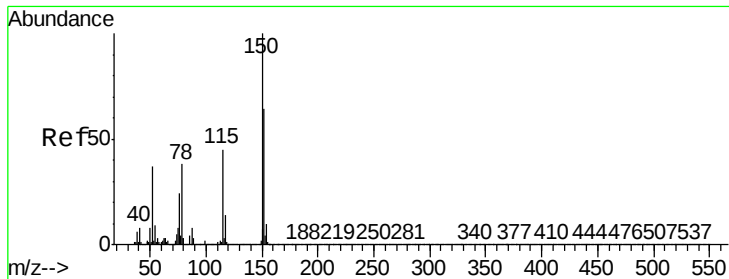
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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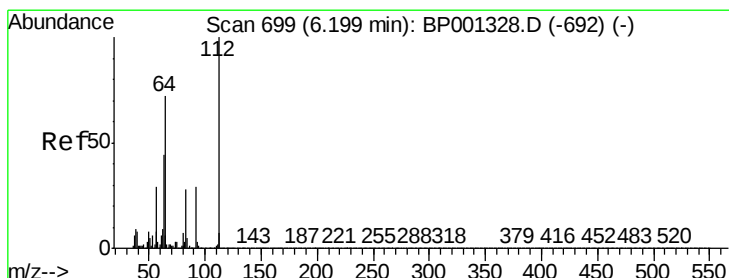
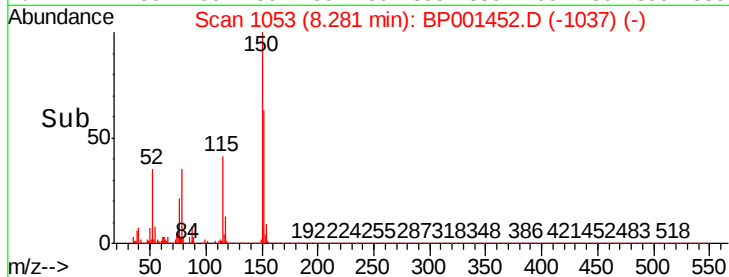
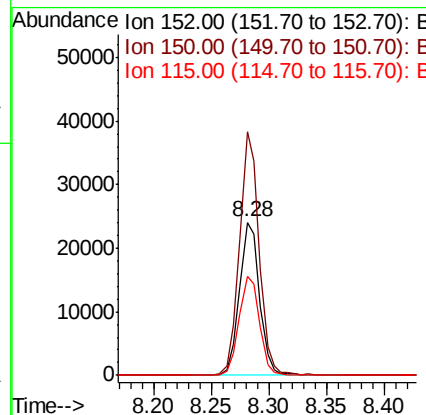
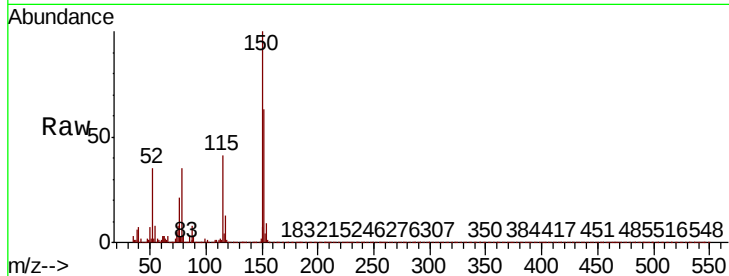




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.28 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: BP001452.D
 Acq: 27 Dec 2019 08:52

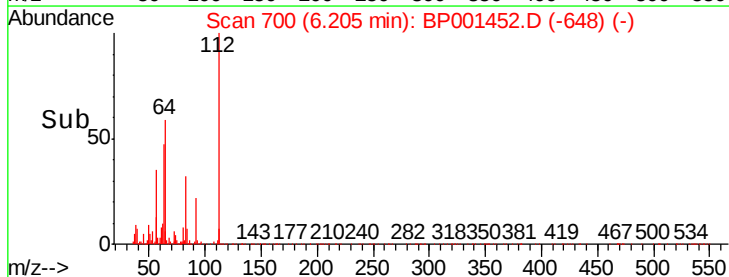
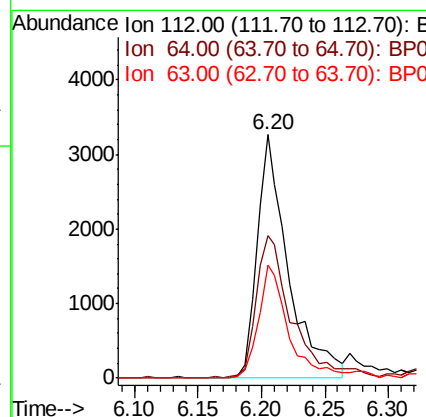
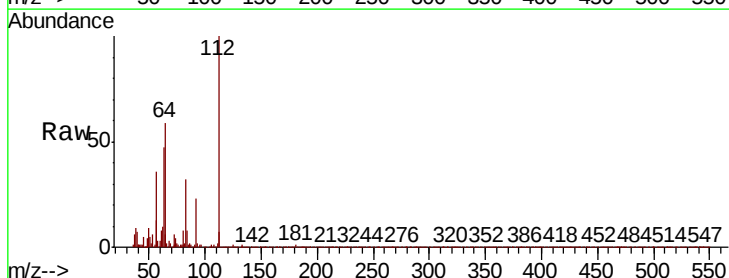
Instrument :
 BNA_P
 ClientSampled :

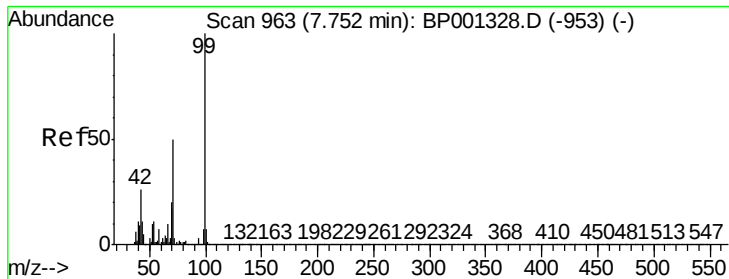
Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	127.0	190.6
115	65.0	56.1	84.1



#5
 2-Fluorophenol
 Concen: 3.127 ng
 RT: 6.20 min Scan# 700
 Delta R.T. 0.01 min
 Lab File: BP001452.D
 Acq: 27 Dec 2019 08:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.8	53.9	80.9
63	46.6	33.4	50.0





#7

Phenol-d6

Concen: 3.594 ng

RT: 7.75 min Scan# 963

Delta R.T. -0.00 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

Instrument :

BNA_P

ClientSampled :

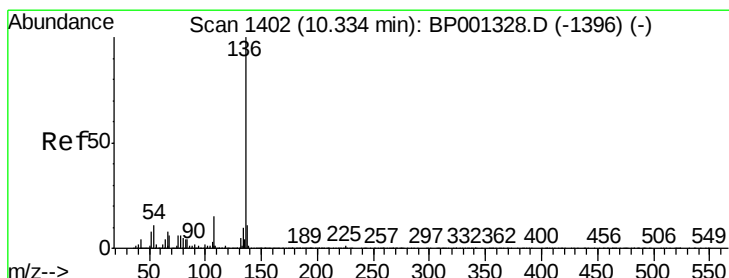
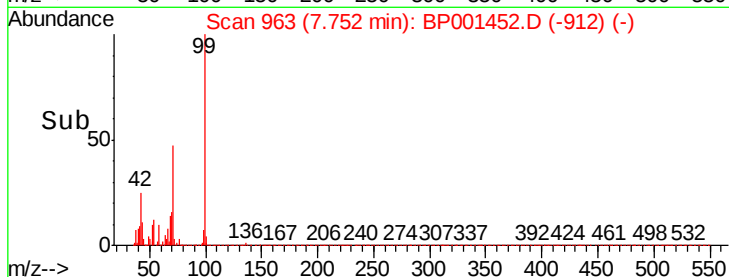
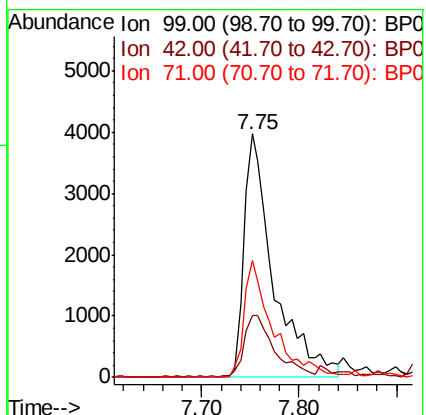
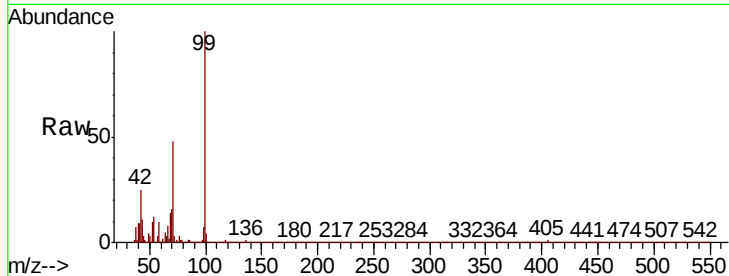
Tot Ion: 99 Resp: 8401

Ion Ratio Lower Upper

99 100

42 25.3 20.8 31.2

71 47.8 38.2 57.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.32 min Scan# 1399

Delta R.T. -0.01 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

Tgt Ion: 136 Resp: 101335

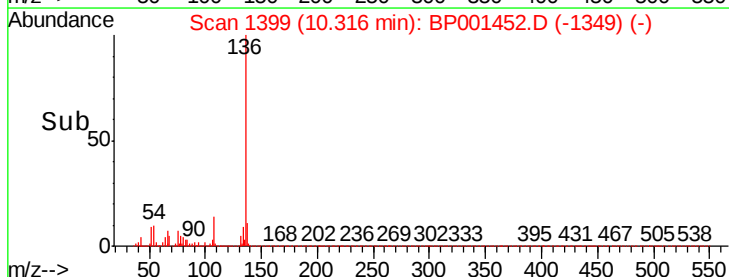
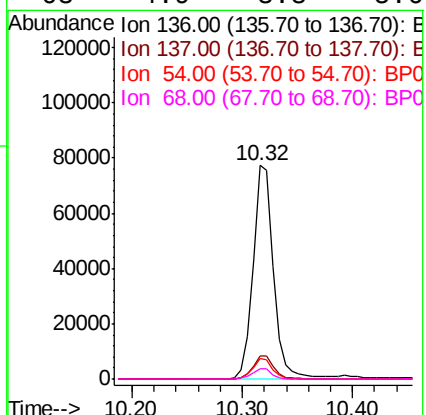
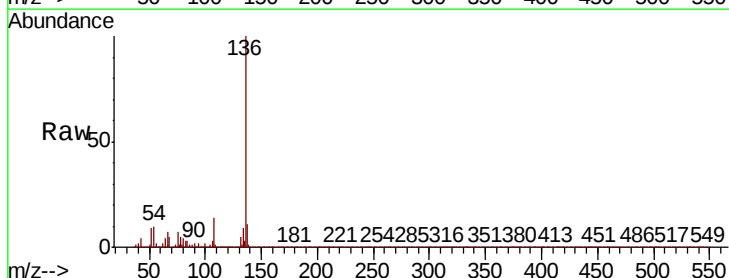
Ion Ratio Lower Upper

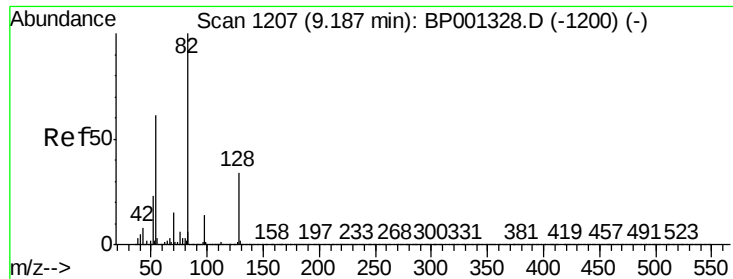
136 100

137 10.9 9.0 13.4

54 9.6 7.3 10.9

68 4.9 3.8 5.6

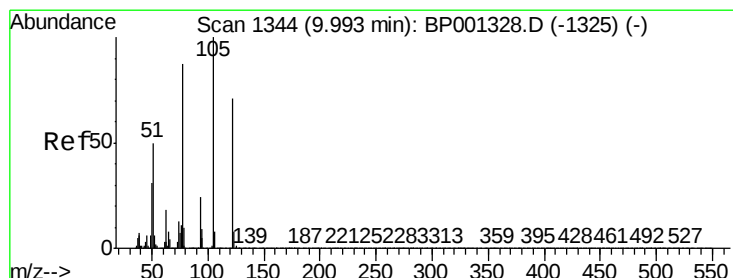
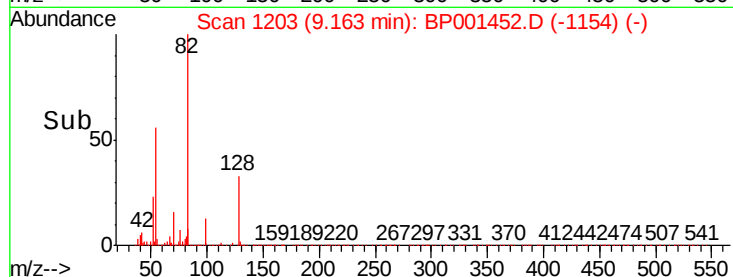
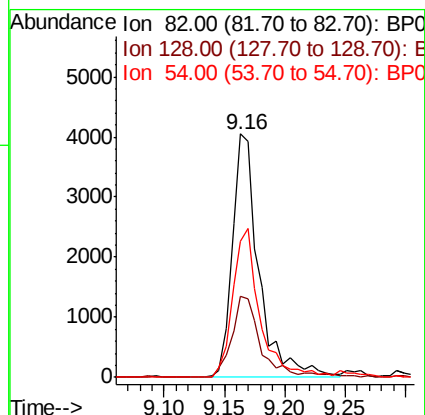
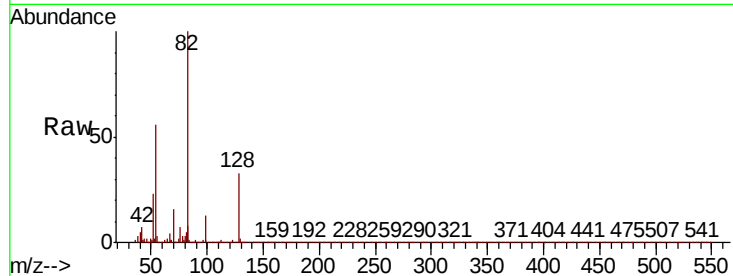




#23
Nitrobenzene-d5
Concen: 2.360 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

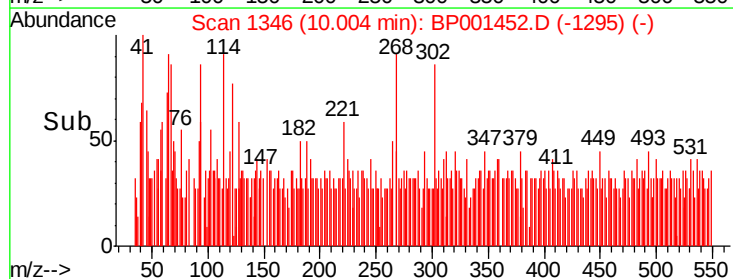
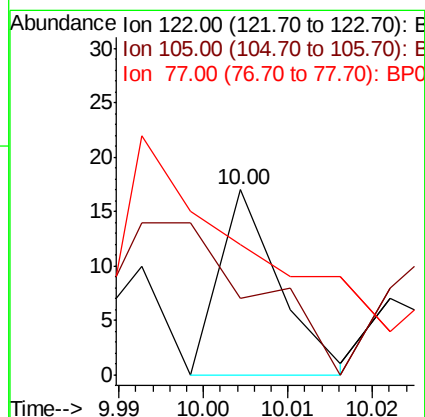
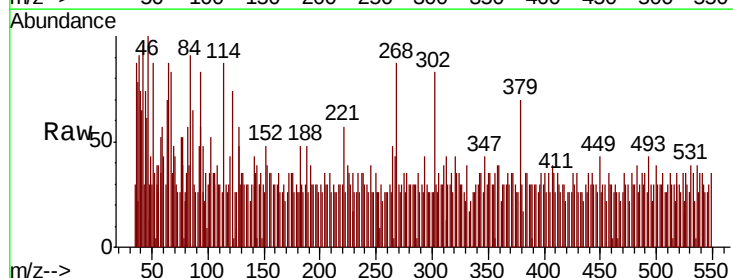
Instrument :
BNA_P
ClientSampled :

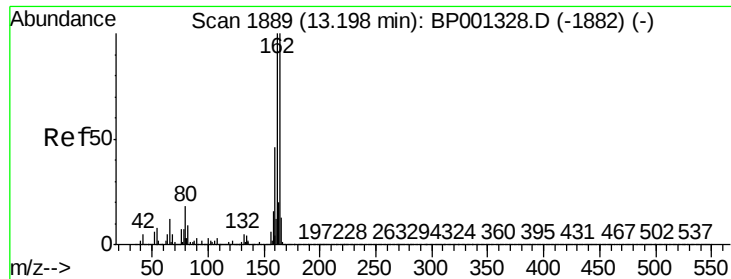
Tot Ion	82	Resp	6227
Ion Ratio	100	Lower	Upper
128	33.2	27.4	41.0
54	56.1	47.5	71.3



#32
Benzoic acid
Concen: 5.029 ng
RT: 10.00 min Scan# 1346
Delta R.T. -0.00 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

Tgt Ion	122	Resp	8
Ion Ratio	100	Lower	Upper
105	41.2	117.8	157.8#
77	123.5	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: BP001452.D

Acq: 27 Dec 2019 08:52

Instrument :

BNA_P

ClientSampleId :

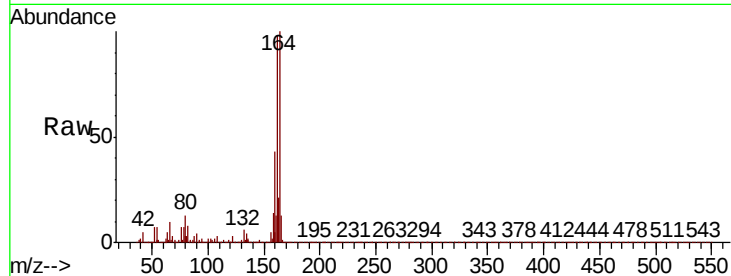
Tot Ion:164 Resp: 61121

Ion Ratio Lower Upper

164 100

162 98.4 78.2 117.4

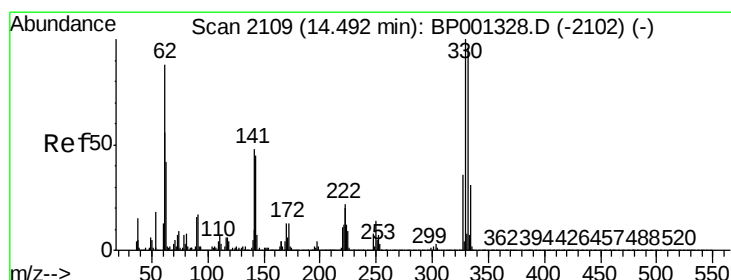
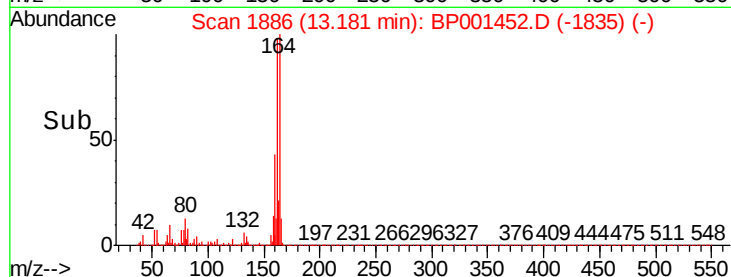
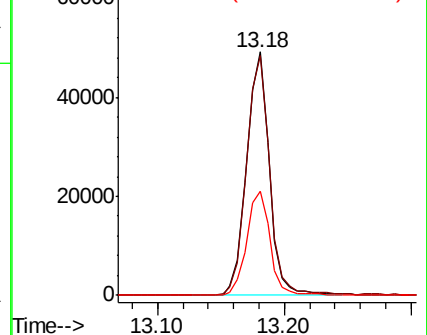
160 42.7 35.1 52.7



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: 3.198 ng

RT: 14.48 min Scan# 2107

Delta R.T. -0.00 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

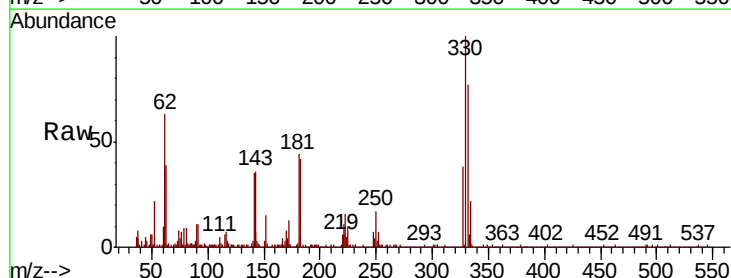
Tgt Ion:330 Resp: 2444

Ion Ratio Lower Upper

330 100

332 96.2 78.3 117.5

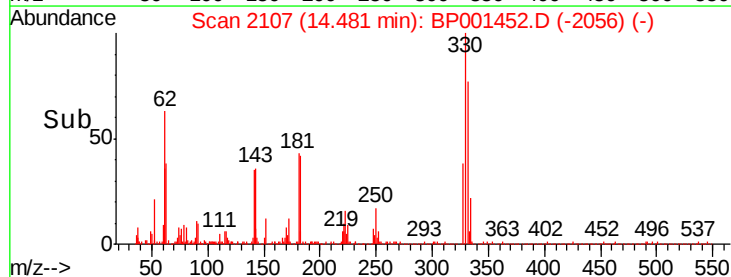
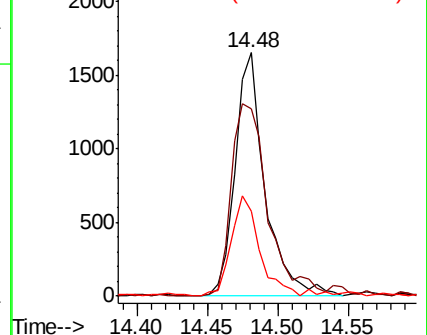
141 38.9 26.8 40.2

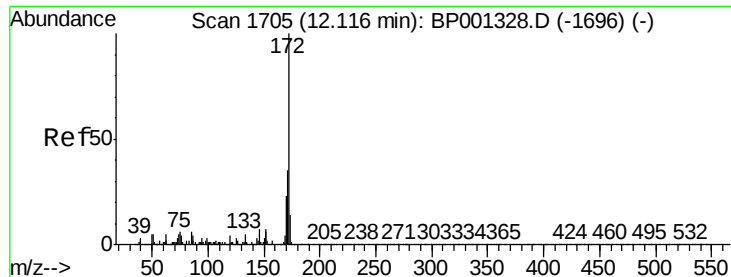


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

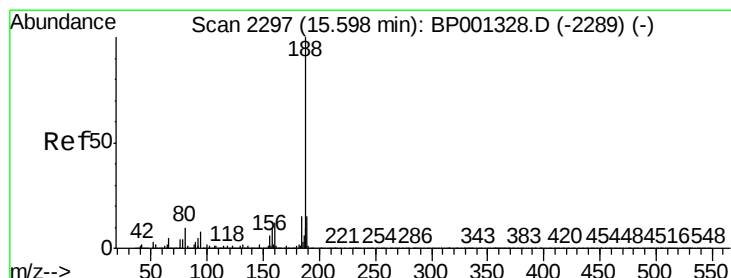
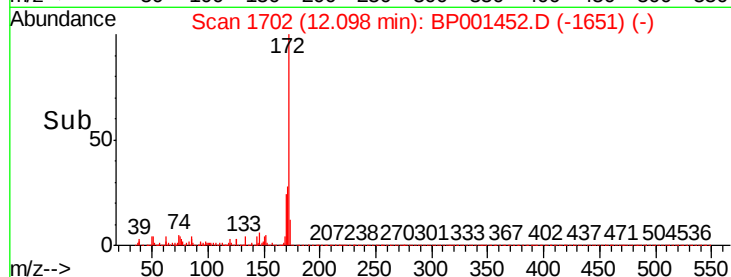
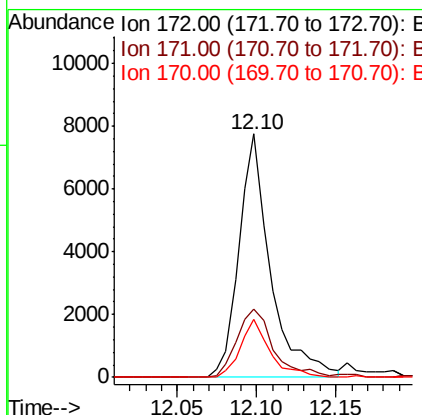
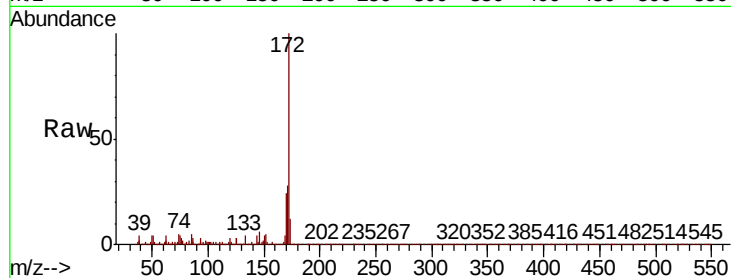




#45
 2-Fluorobiphenyl
 Concen: 2.215 ng
 RT: 12.10 min Scan# 1702
 Delta R.T. -0.00 min
 Lab File: BP001452.D
 Acq: 27 Dec 2019 08:52

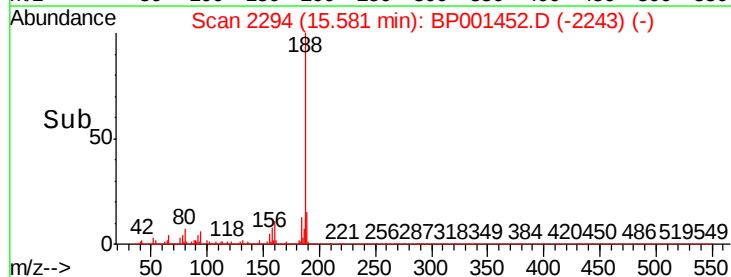
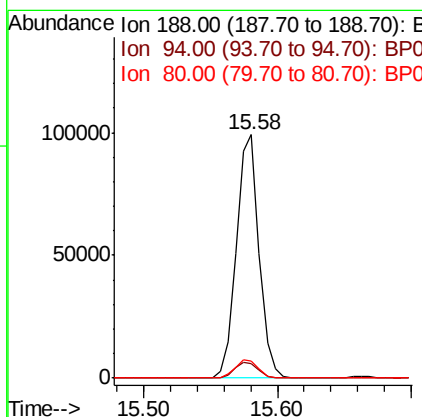
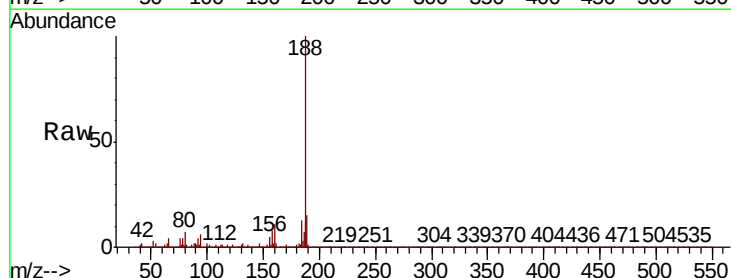
Instrument :
 BNA_P
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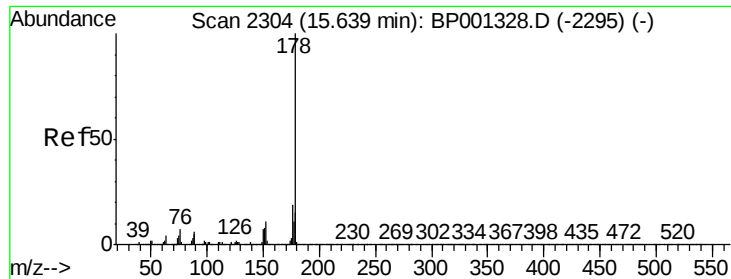
Tot Ion:172 Resp: 10707
 Ion Ratio Lower Upper
 172 100
 171 27.8 27.4 41.0
 170 23.6 18.2 27.4



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 15.58 min Scan# 2294
 Delta R.T. -0.00 min
 Lab File: BP001452.D
 Acq: 27 Dec 2019 08:52

Tgt Ion:188 Resp: 117359
 Ion Ratio Lower Upper
 188 100
 94 6.1 5.8 8.8
 80 7.1 5.7 8.5

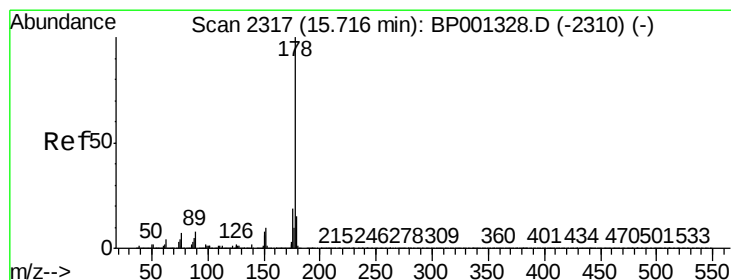
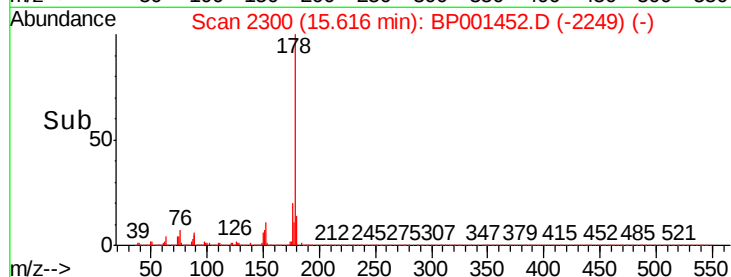
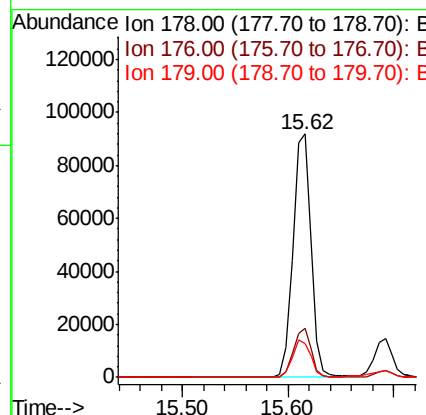
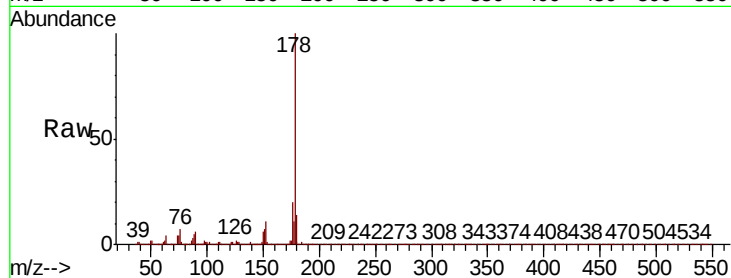




#71
Phenanthrene
Concen: 16.061 ng
RT: 15.62 min Scan# 2300
Delta R.T. -0.00 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

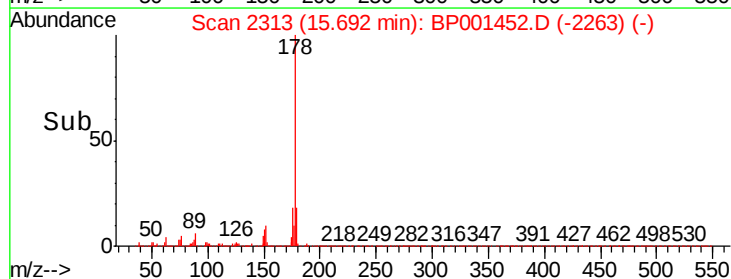
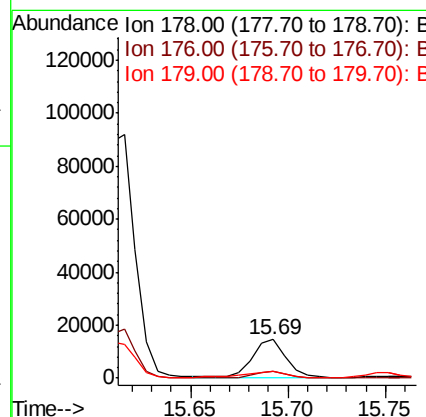
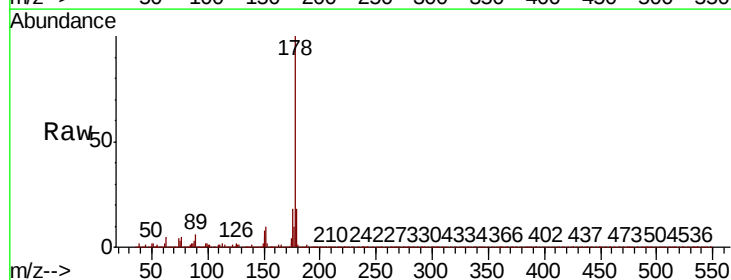
Instrument :
BNA_P
ClientSampleId :

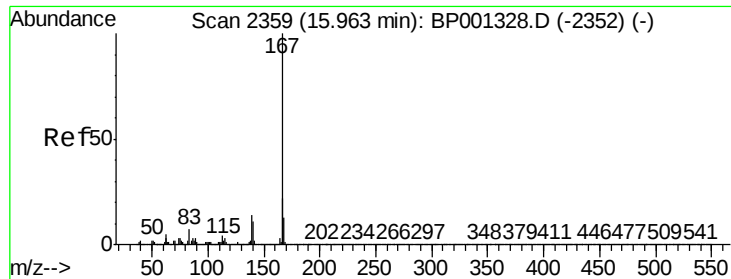
Tot Ion:178 Resp: 107538
Ion Ratio Lower Upper
178 100
176 20.2 15.4 23.0
179 14.1 12.2 18.2



#72
Anthracene
Concen: 2.642 ng
RT: 15.69 min Scan# 2313
Delta R.T. -0.01 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

Tgt Ion:178 Resp: 17509
Ion Ratio Lower Upper
178 100
176 17.8 14.5 21.7
179 17.6 11.8 17.8

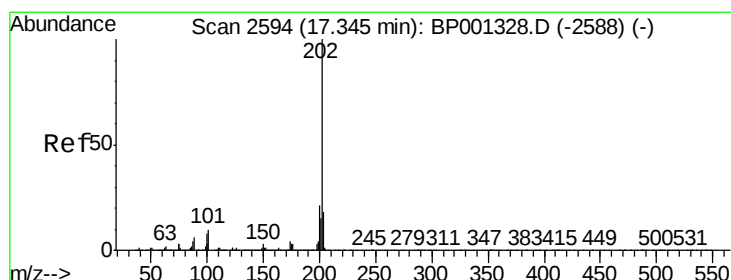
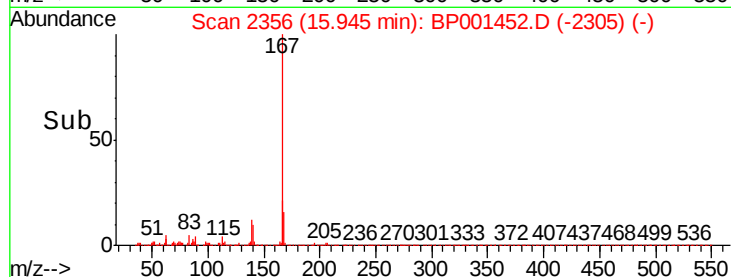
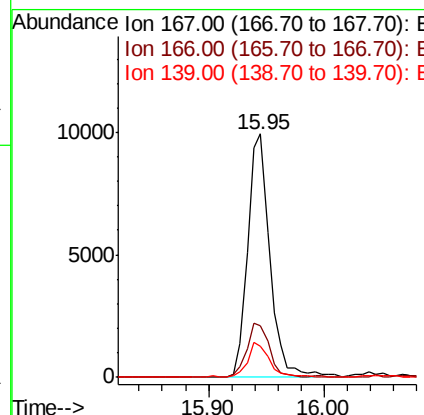
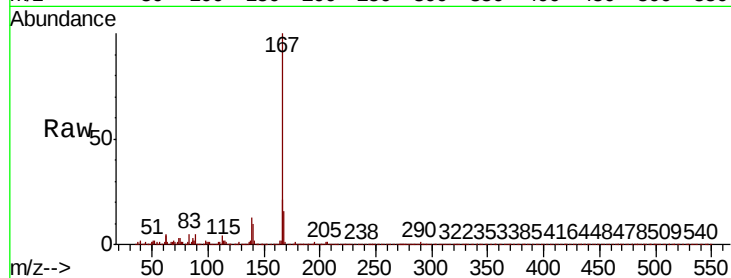




#73
 Carbazole
 Concen: 2.246 ng
 RT: 15.95 min Scan# 2356
 Delta R.T. -0.00 min
 Lab File: BP001452.D
 Acq: 27 Dec 2019 08:52

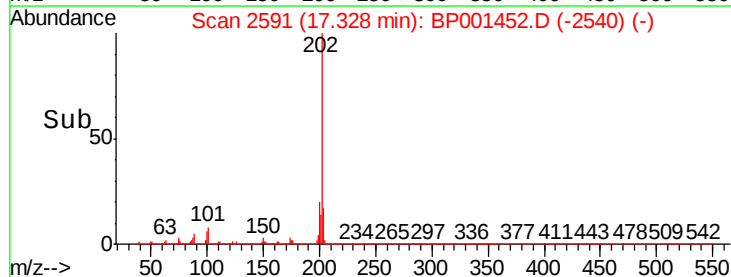
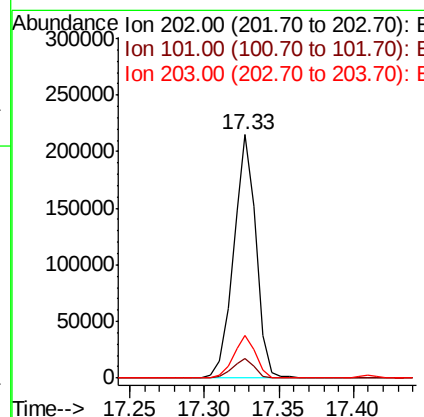
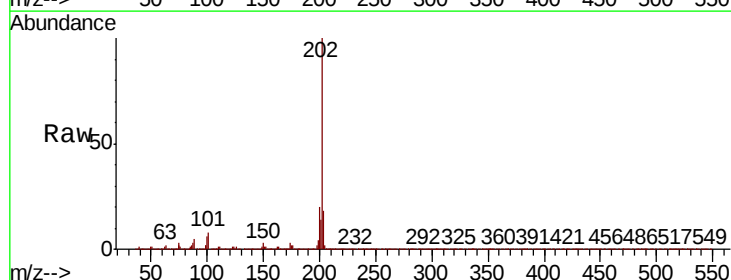
Instrument :
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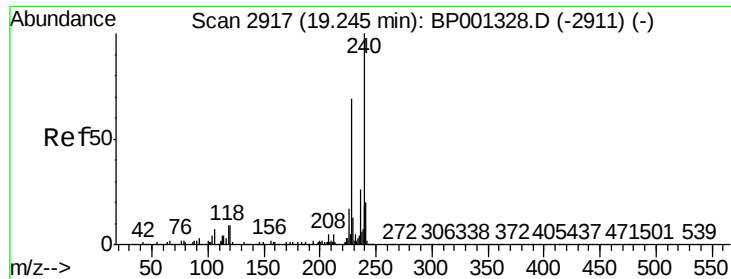
Tot Ion:167 Resp: 13273
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.4 26.2
 139 12.5 10.9 16.3



#75
 Fluoranthene
 Concen: 30.288 ng
 RT: 17.33 min Scan# 2591
 Delta R.T. -0.00 min
 Lab File: BP001452.D
 Acq: 27 Dec 2019 08:52

Tgt Ion:202 Resp: 226762
 Ion Ratio Lower Upper
 202 100
 101 7.8 0.0 28.7
 203 17.5 0.0 37.4

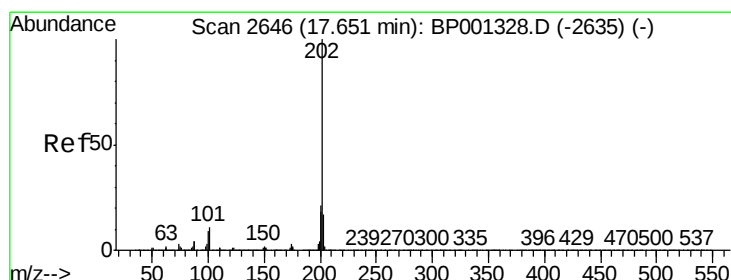
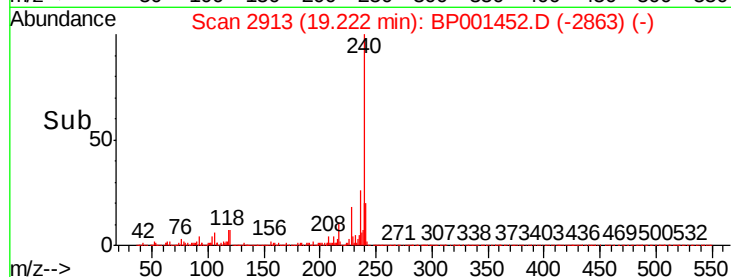
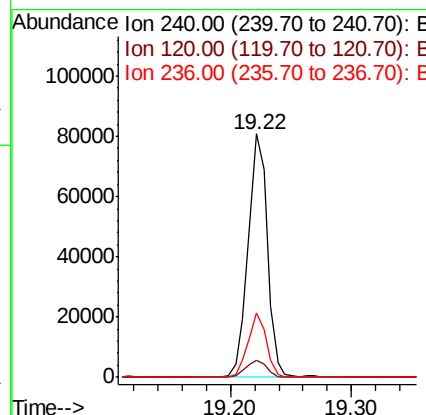
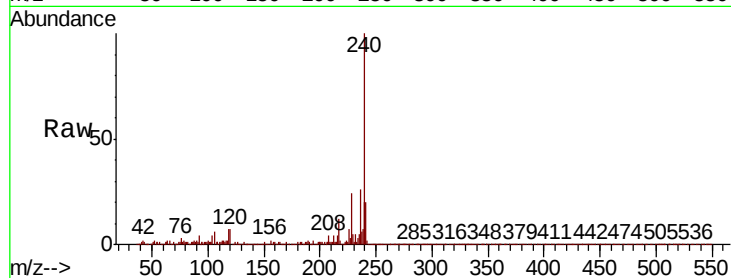




#76
Chrysene-d12
Concen: 20.000 ng
RT: 19.22 min Scan# 2913
Delta R.T. -0.01 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

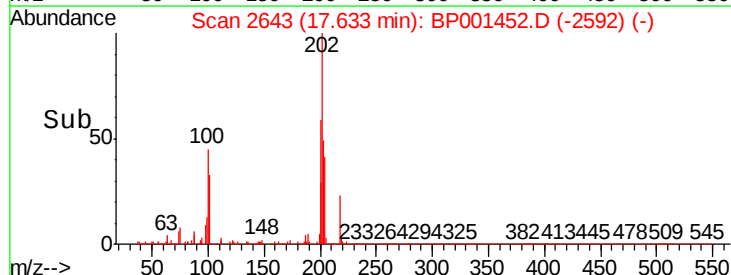
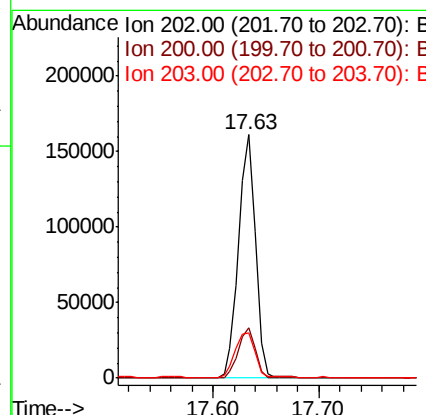
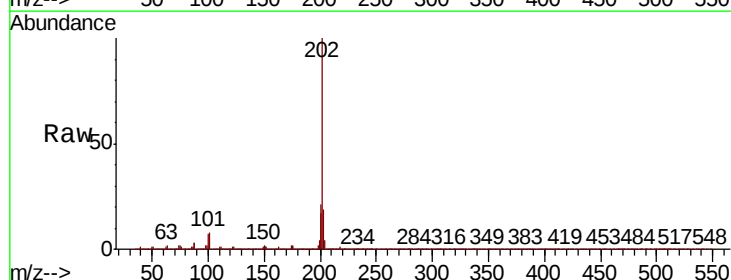
Instrument :
BNA_P
ClientSampleId :

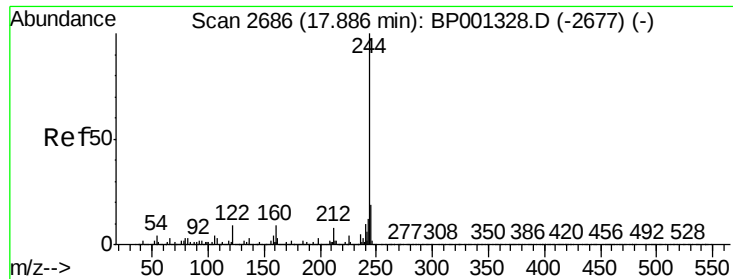
Tot Ion:240 Resp: 91252
Ion Ratio Lower Upper
240 100
120 7.3 6.2 9.2
236 26.5 20.2 30.2



#78
Pyrene
Concen: 25.220 ng
RT: 17.63 min Scan# 2643
Delta R.T. -0.00 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

Tgt Ion:202 Resp: 178684
Ion Ratio Lower Upper
202 100
200 20.8 16.6 25.0
203 18.6 14.3 21.5





#79

Terphenyl-d14

Concen: 2.192 ng

RT: 17.86 min Scan# 2681

Delta R.T. -0.01 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

Instrument :

BNA_P

ClientSampleId :

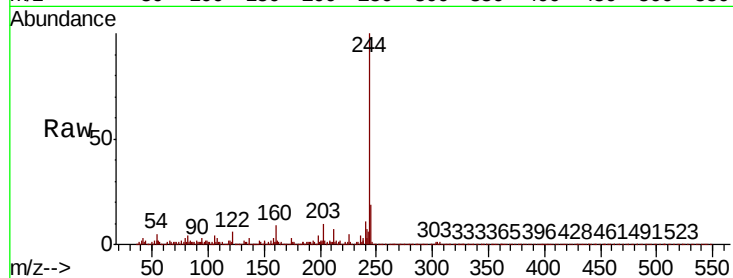
Tot Ion:244 Resp: 11676

Ion Ratio Lower Upper

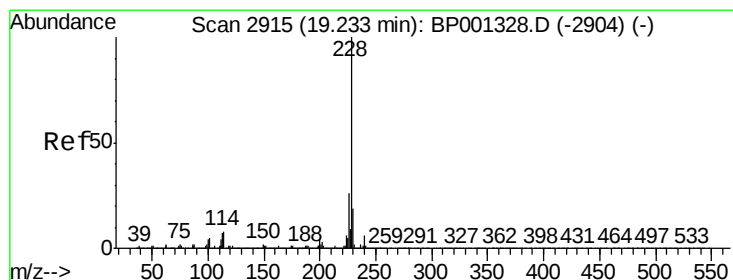
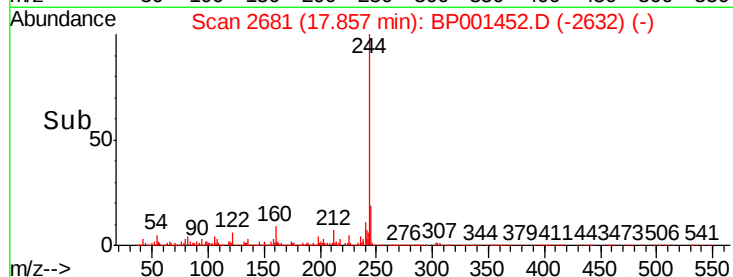
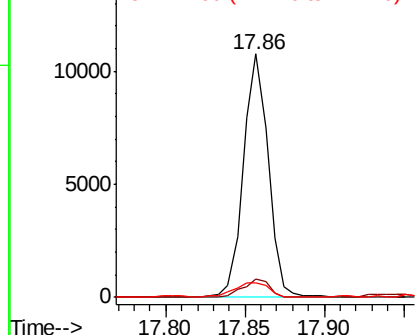
244 100

212 7.5 5.8 8.8

122 6.1 6.4 9.6#



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: 12.690 ng

RT: 19.21 min Scan# 2911

Delta R.T. -0.01 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

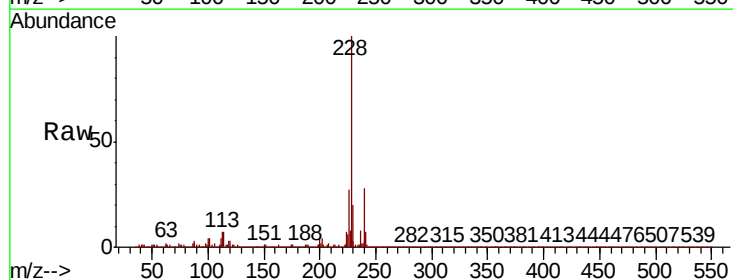
Tgt Ion:228 Resp: 84381

Ion Ratio Lower Upper

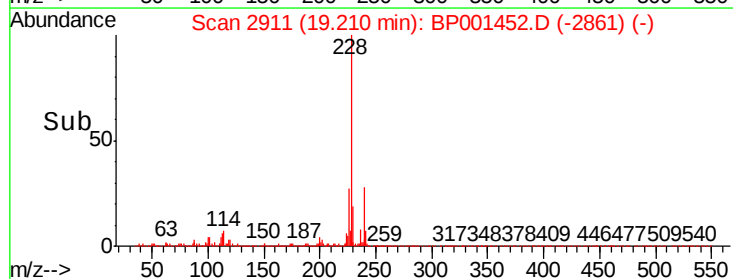
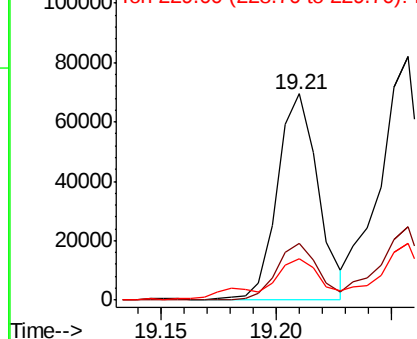
228 100

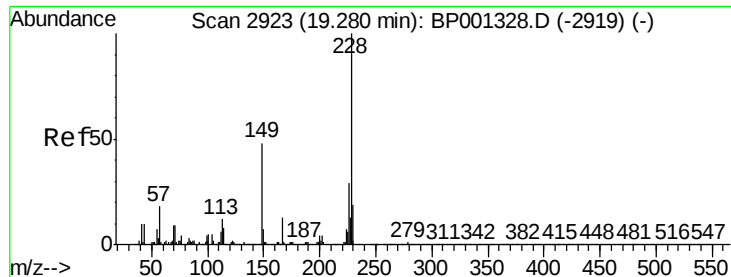
226 27.4 21.4 32.2

229 19.8 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





#83

Chrysene

Concen: 15.774 ng

RT: 19.26 min Scan# 2919

Delta R.T. -0.01 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

Instrument :

BNA_P

ClientSampleId :

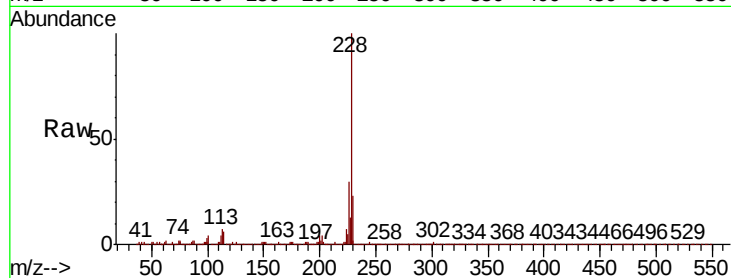
Tot Ion:228 Resp: 101237

Ion Ratio Lower Upper

228 100

226 30.2 23.4 35.2

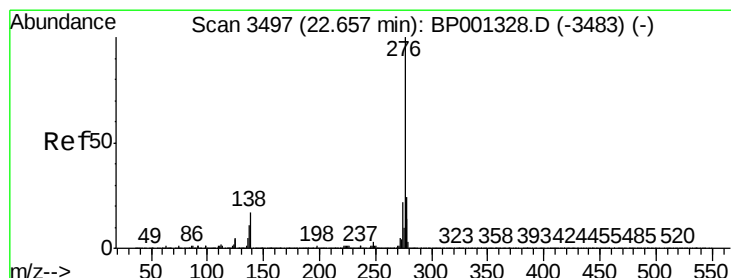
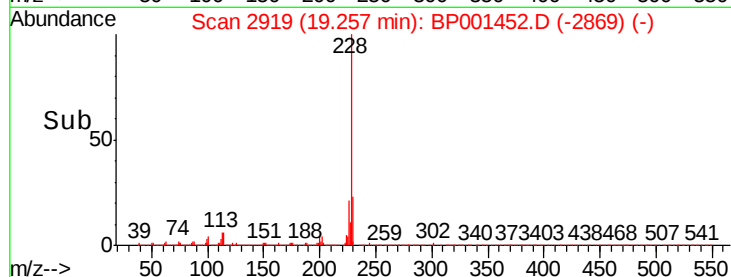
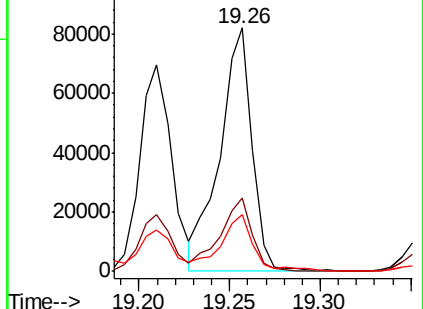
229 23.2 15.5 23.3



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 9.007 ng

RT: 22.61 min Scan# 3489

Delta R.T. -0.01 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

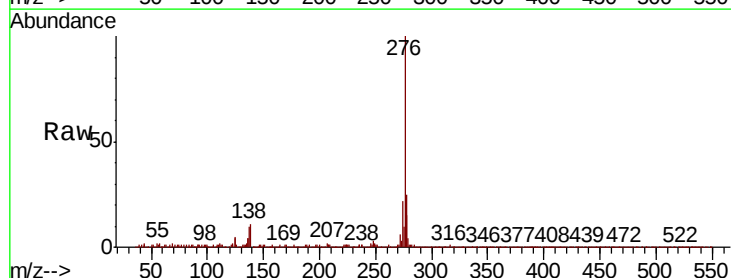
Tgt Ion:276 Resp: 62431

Ion Ratio Lower Upper

276 100

138 13.2 12.8 19.2

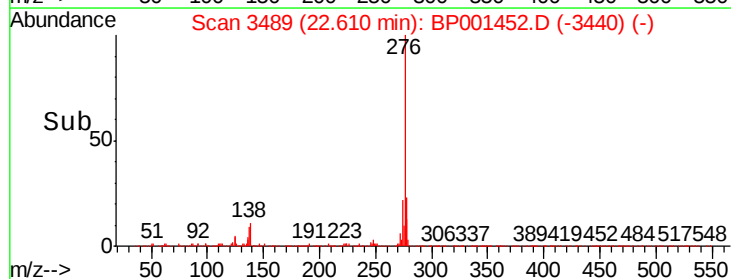
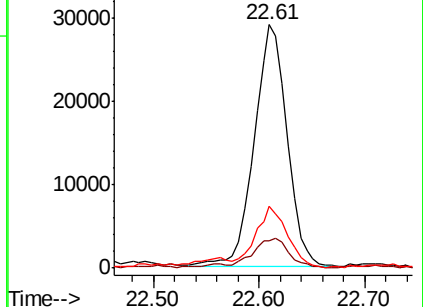
277 24.2 19.9 29.9

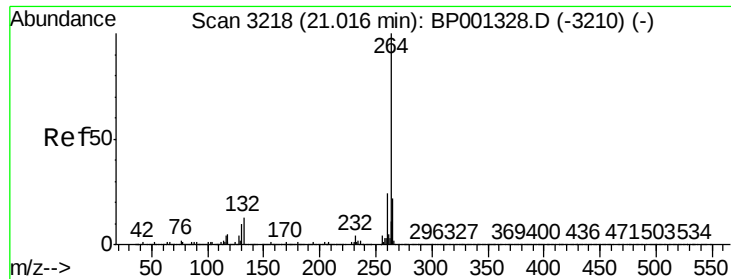


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

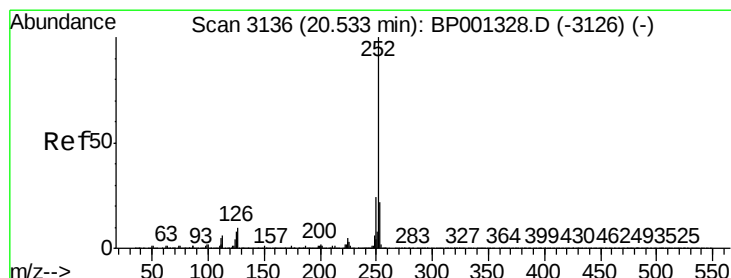
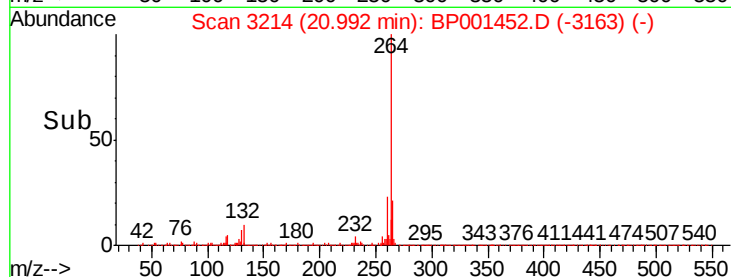
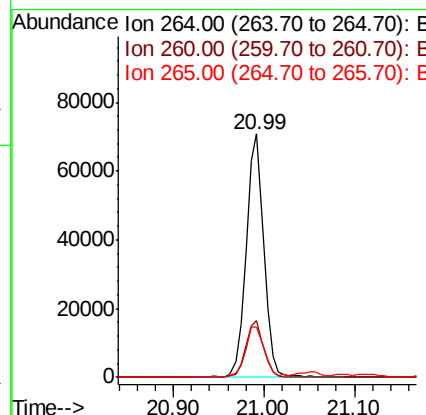
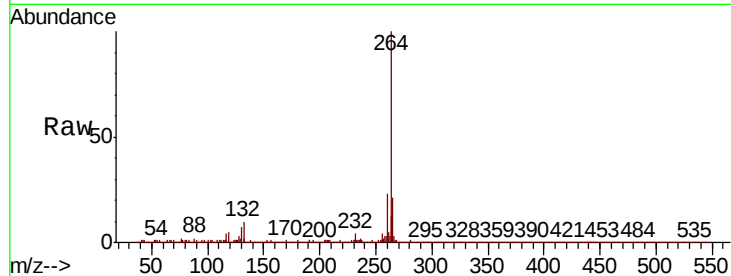




#87
Pervlene-d12
Concen: 20.000 ng
RT: 20.99 min Scan# 3214
Delta R.T. -0.00 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

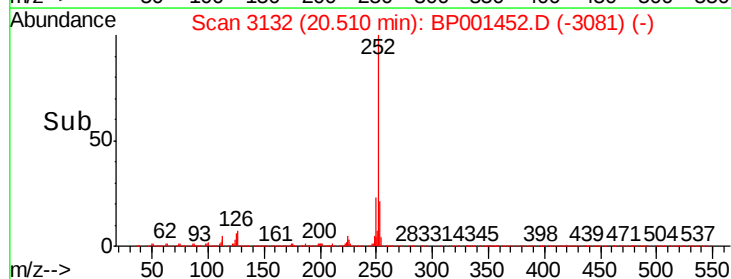
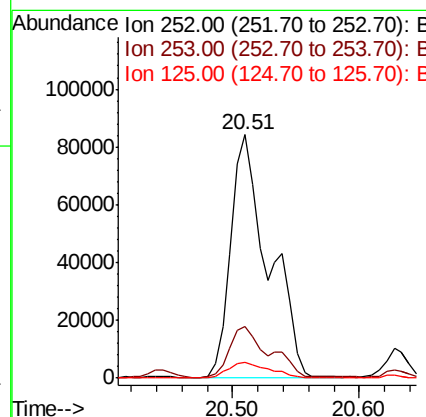
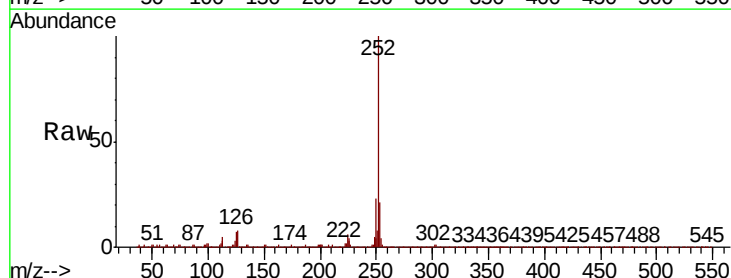
Instrument :
BNA_P
ClientSampleId :

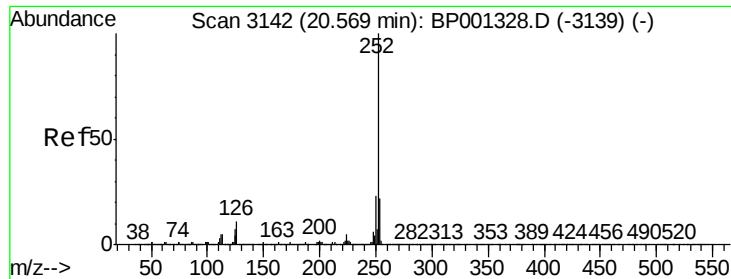
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.4
265	20.8	17.0	25.4



#88
Benzo(b)fluoranthene
Concen: 27.388 ng
RT: 20.51 min Scan# 3132
Delta R.T. -0.00 min
Lab File: BP001452.D
Acq: 27 Dec 2019 08:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.5	26.3
125	6.6	5.6	8.4





#89

Benzo(k)fluoranthene

Concen: 28.752 ng

RT: 20.51 min Scan# 3132

Delta R.T. -0.04 min

Lab File: BP001452.D

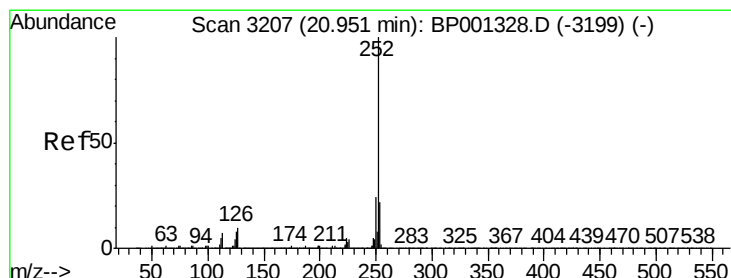
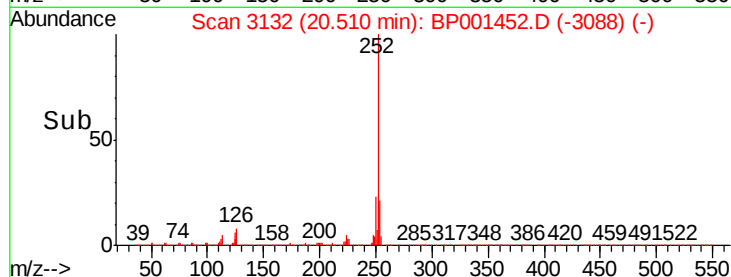
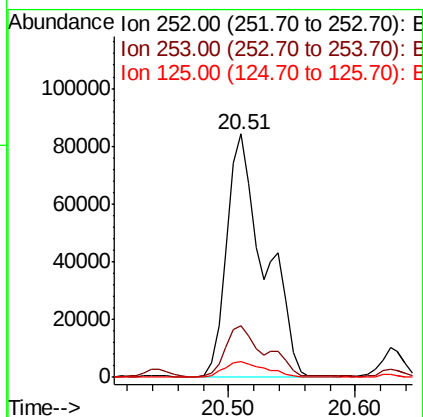
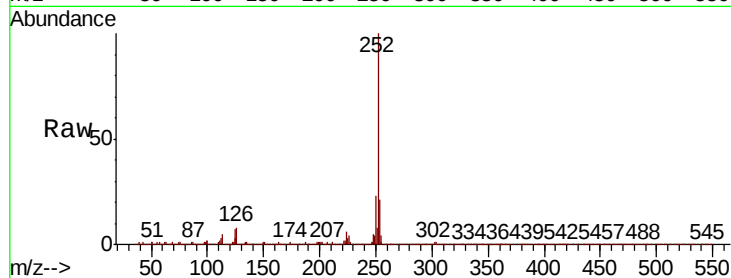
Acq: 27 Dec 2019 08:52

Instrument :

BNA_P

ClientSampleId :

Tot Ion:252	Resp:	172971
Ion Ratio	Lower	Upper
252	100	
253	21.1	17.4 26.2
125	6.6	4.5 6.7



#90

Benzo(a)pyrene

Concen: 13.721 ng

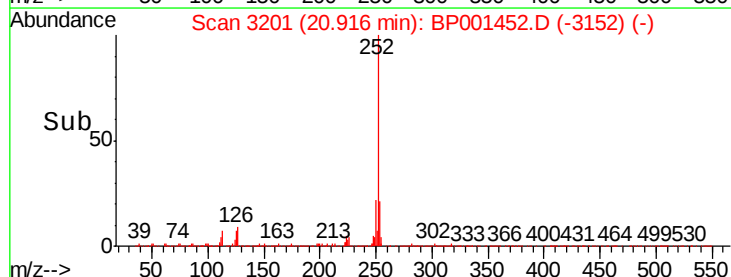
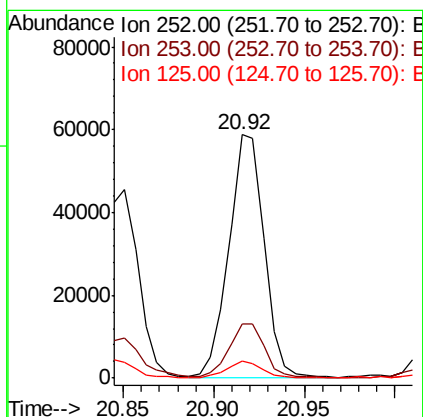
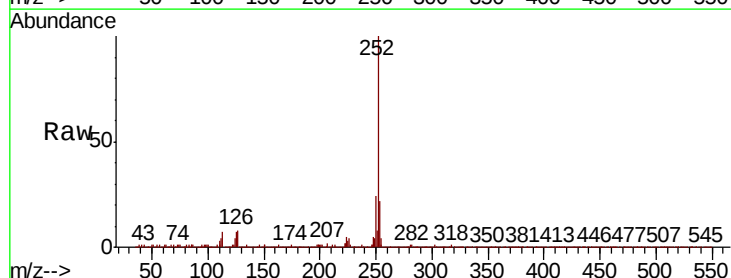
RT: 20.92 min Scan# 3201

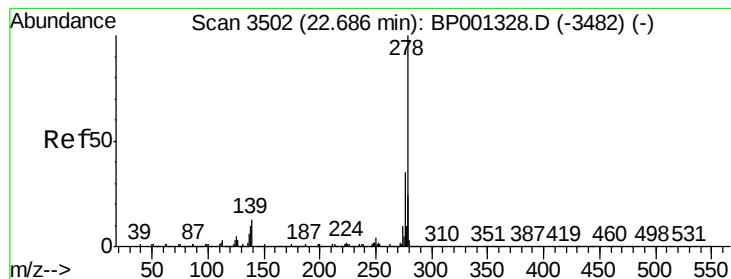
Delta R.T. -0.01 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

Tgt Ion:252	Resp:	78939
Ion Ratio	Lower	Upper
252	100	
253	22.4	17.2 25.8
125	6.8	5.2 7.8





#91

Dibenzo(a,h)anthracene

Concen: 2.759 ng

RT: 22.62 min Scan# 3491

Delta R.T. -0.02 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

Instrument :

BNA_P

ClientSampleId :

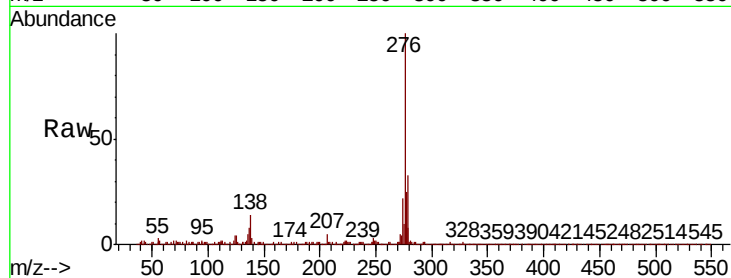
Tot Ion:278 Resp: 15520

Ion Ratio Lower Upper

278 100

139 9.2 8.3 12.5

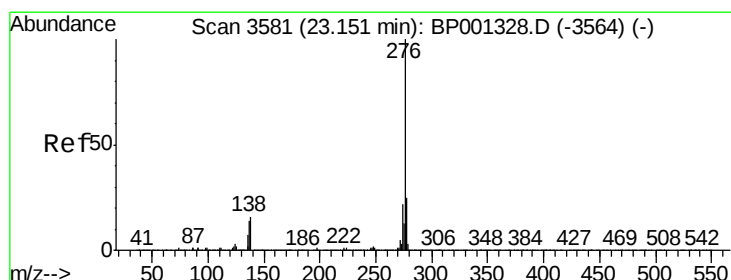
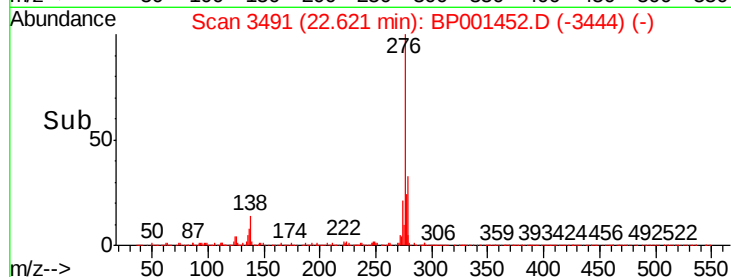
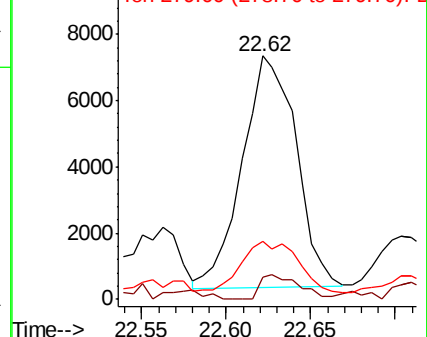
279 23.7 19.1 28.7



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



#92

Benzo(g,h,i)perylene

Concen: 10.889 ng

RT: 23.09 min Scan# 3571

Delta R.T. -0.02 min

Lab File: BP001452.D

Acq: 27 Dec 2019 08:52

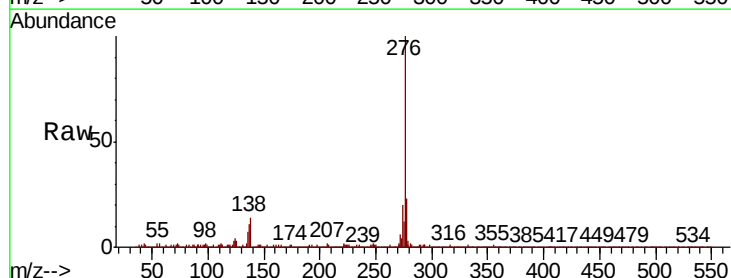
Tgt Ion:276 Resp: 58529

Ion Ratio Lower Upper

276 100

277 23.0 18.6 27.8

138 13.5 10.5 15.7



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

