

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011720\
 Data File : BP001666.D
 Acq On : 17 Jan 2020 20:08
 Operator : JU
 Sample : L1012-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :

Quant Time: Jan 18 02:34:54 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 14 21:52:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	60119	20.00	ng	0.00
21) Naphthalene-d8	10.41	136	203275	20.00	ng	0.00
39) Acenaphthene-d10	14.28	164	108547	20.00	ng	0.00
64) Phenanthrene-d10	17.05	188	199405	20.00	ng	0.00
76) Chrysene-d12	21.15	240	188983	20.00	ng	0.00
87) Perylene-d12	23.39	264	201004	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.26	112	176714	57.58	ng	0.00
7) Phenol-d6	6.83	99	259022	52.81	ng	0.00
23) Nitrobenzene-d5	8.78	82	177987	38.26	ng	0.00
42) 2,4,6-Tribromophenol	15.79	330	57744	34.95	ng	0.00
45) 2-Fluorobiphenyl	12.90	172	291317	39.46	ng	0.00
79) Terphenyl-d14	19.63	244	319101	30.88	ng	0.00

Target Compounds

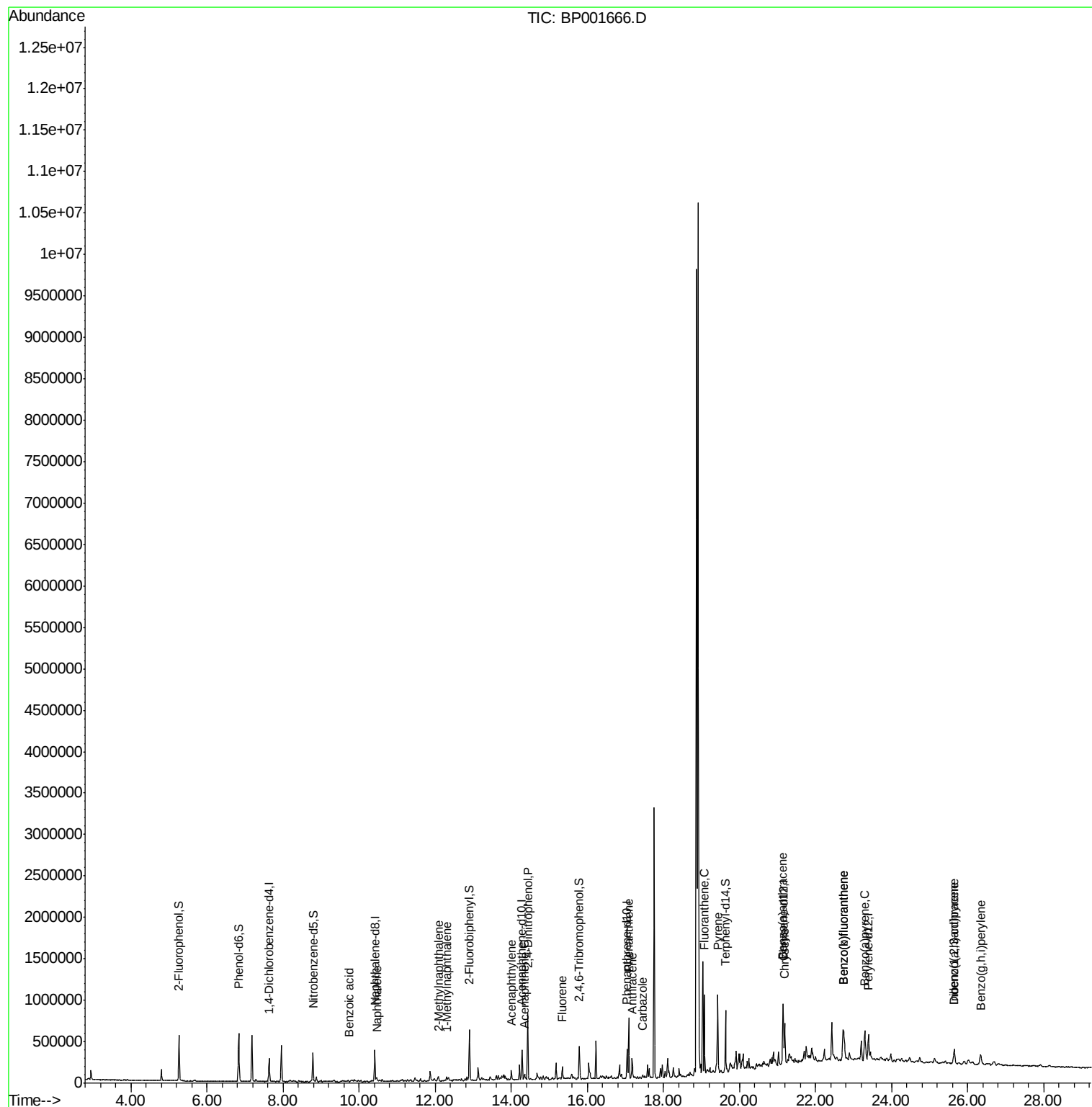
						Qvalue
31) Naphthalene	10.46	128	32923	3.069	ng	97
32) Benzoic acid	9.74	122	14	4.708	ng	# 1
37) 2-Methylnaphthalene	12.08	142	19899	2.327	ng	95
38) 1-Methylnaphthalene	12.30	142	20479	2.489	ng	99
49) Acenaphthylene	14.00	152	74770	7.499	ng	98
52) Acenaphthene	14.35	154	23346	3.781	ng	98
54) 2,4-Dinitrophenol	14.43	184	2150	2.017	ng	# 37
58) Fluorene	15.34	166	59402	7.030	ng	97
71) Phenanthrene	17.09	178	386862	35.674	ng	99
72) Anthracene	17.17	178	145675	13.799	ng	99
73) Carbazole	17.45	167	24037	2.425	ng	98
75) Fluoranthene	19.07	202	559580	39.216	ng	100
78) Pvrene	19.42	202	561743	40.465	ng	99
81) Benzo(a)anthracene	21.13	228	287305	21.829	ng	96
83) Chrysene	21.19	228	259961	20.268	ng	96
86) Indeno(1,2,3-cd)pyrene	25.64	276	149588	9.963	ng	99
88) Benzo(b)fluoranthene	22.72	252	423649	33.447	ng	# 95
89) Benzo(k)fluoranthene	22.72	252	423649	34.305	ng	# 96
90) Benzo(a)pvrene	23.29	252	246372	20.486	ng	# 97
91) Dibenzo(a,h)anthracene	25.64	278	40694	3.280	ng	# 89
92) Benzo(g,h,i)perylene	26.34	276	147305	11.942	ng	# 96

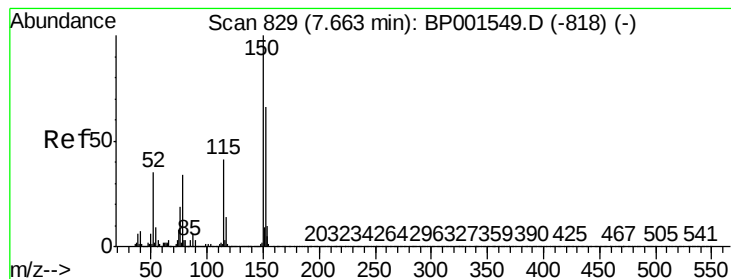
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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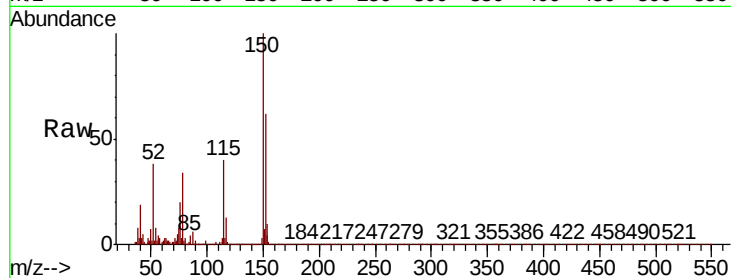


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.63 min Scan# 824
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Instrument :
BNA_P
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.2	122.0	183.0
115	64.8	50.7	76.1



Abundance

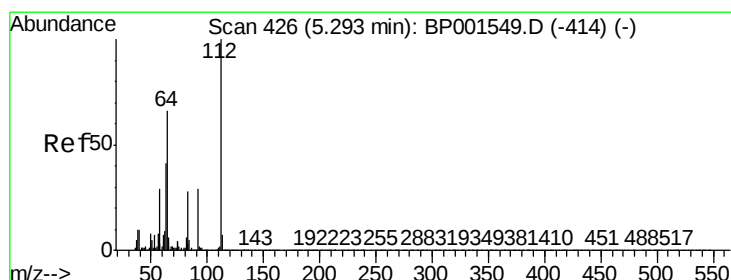
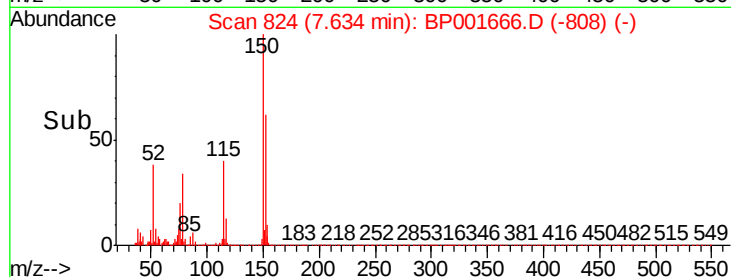
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

7.63

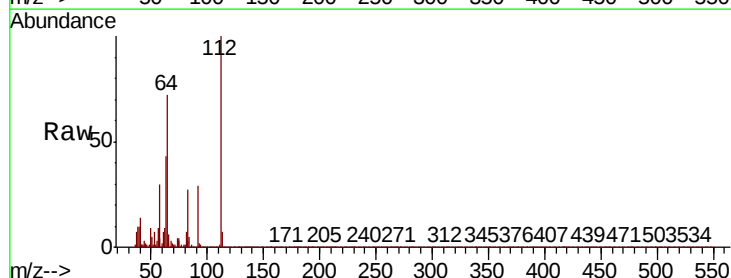
Time-->



#5

2-Fluorophenol
Concen: 57.580 ng
RT: 5.26 min Scan# 421
Delta R.T. 0.00 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.7	52.8	79.2
63	43.3	33.1	49.7



Abundance

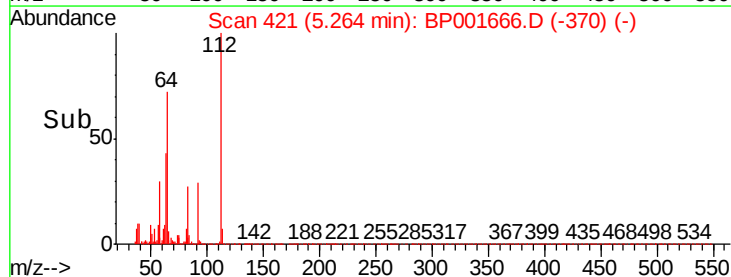
Ion 112.00 (111.70 to 112.70): E

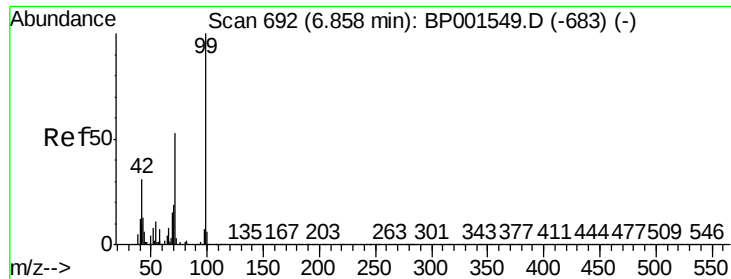
Ion 64.00 (63.70 to 64.70): BP0

Ion 63.00 (62.70 to 63.70): BP0

5.26

Time-->





#7

Phenol-d6

Concen: 52.809 ng

RT: 6.83 min Scan# 688

Delta R.T. 0.00 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

Instrument :

BNA_P

ClientSampleId :

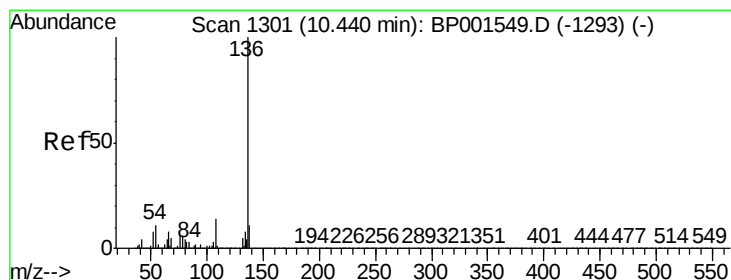
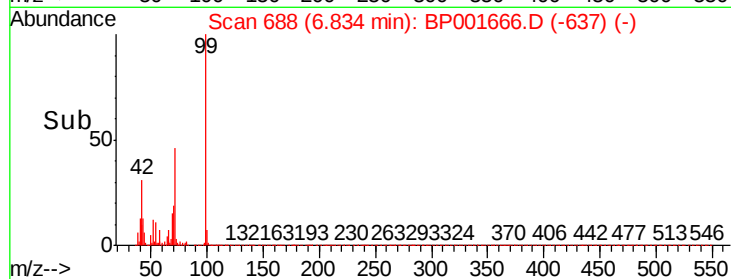
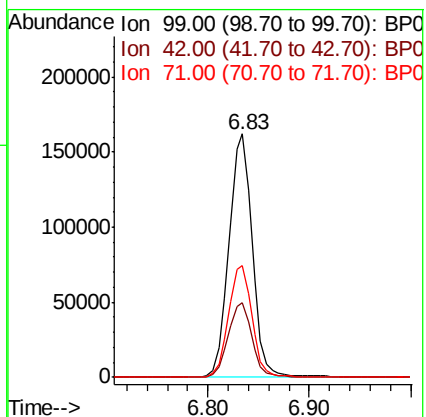
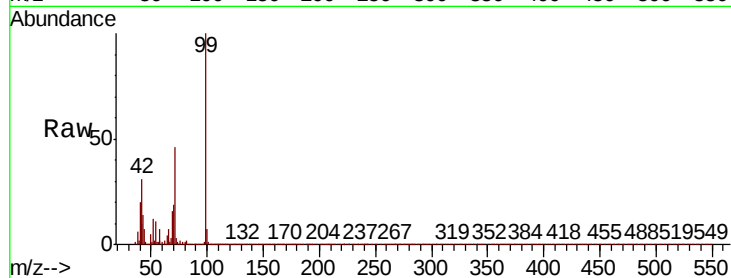
Tot Ion: 99 Resp: 259022

Ion Ratio Lower Upper

99 100

42 30.6 24.5 36.7

71 46.1 42.4 63.6



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.41 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

Tgt Ion: 136 Resp: 203275

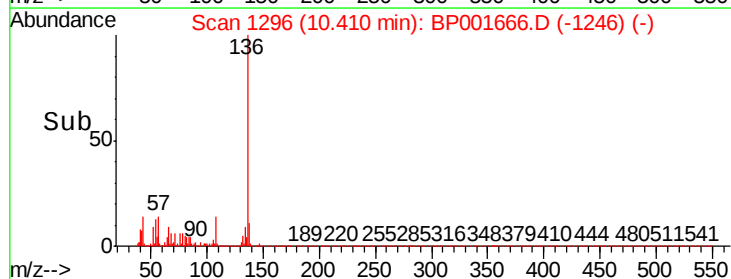
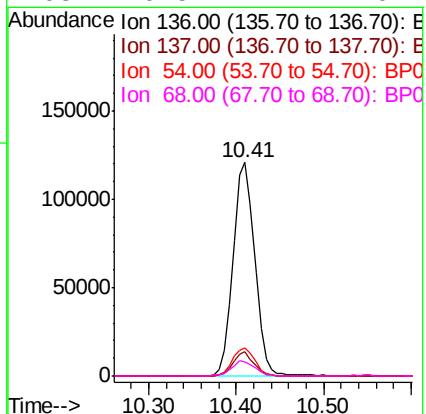
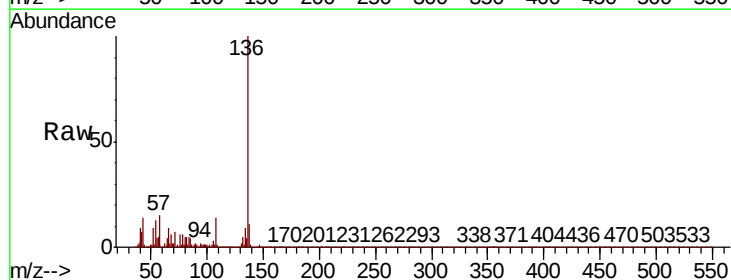
Ion Ratio Lower Upper

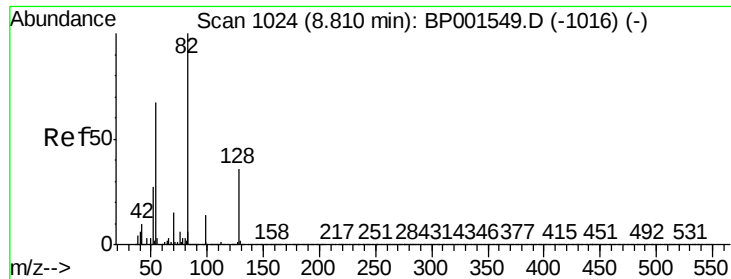
136 100

137 11.1 8.6 12.8

54 13.2 9.2 13.8

68 6.5 4.1 6.1#

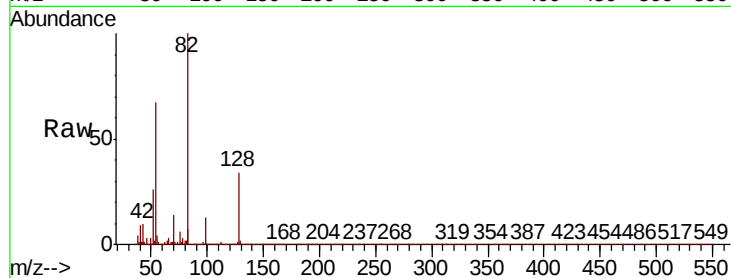




#23
Nitrobenzene-d5
Concen: 38.261 ng
RT: 8.78 min Scan# 1019
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Instrument :
BNA_P
ClientSampleID :

Tot Ion	82	Resp	177987
Ion Ratio	Lower	Upper	
82	100		
128	33.7	28.4	42.6
54	66.9	53.4	80.2

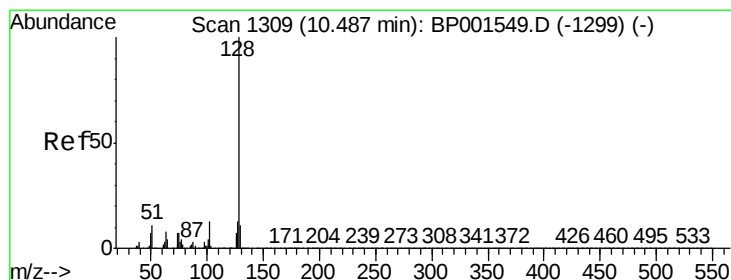
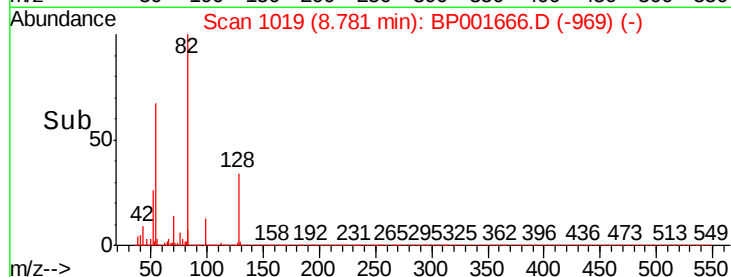
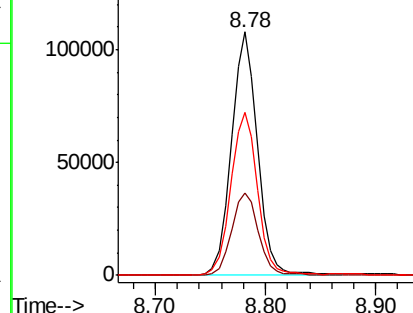


Abundance

Ion 82.00 (81.70 to 82.70): BP0

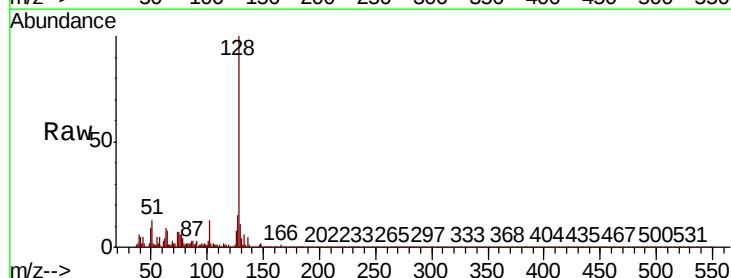
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BP0



#31
Naphthalene
Concen: 3.069 ng
RT: 10.46 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	128	Resp	32923
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.9	13.3
127	15.3	10.6	16.0

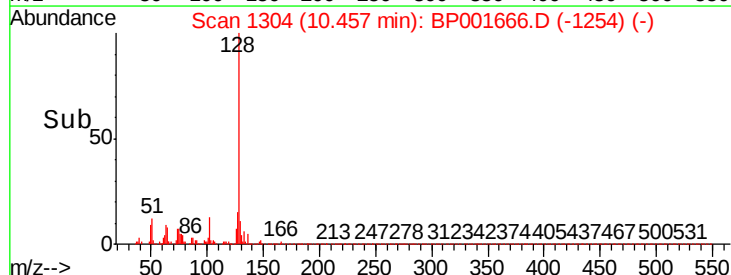
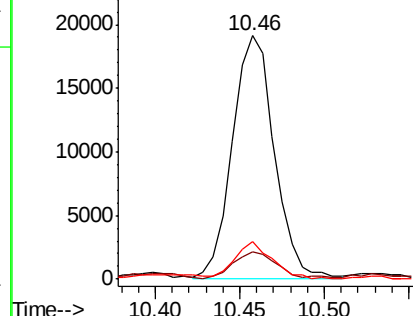


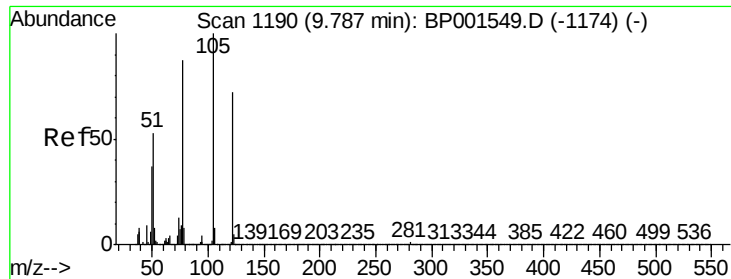
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

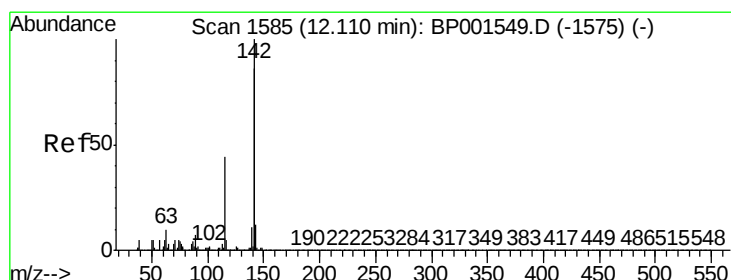
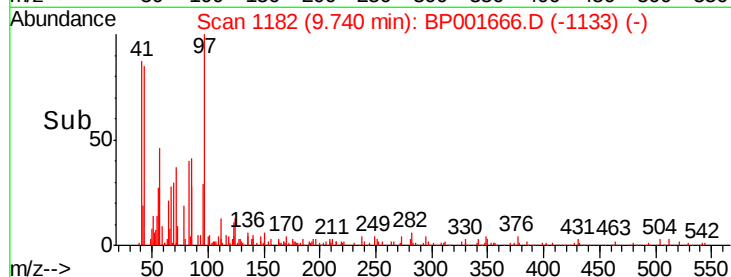
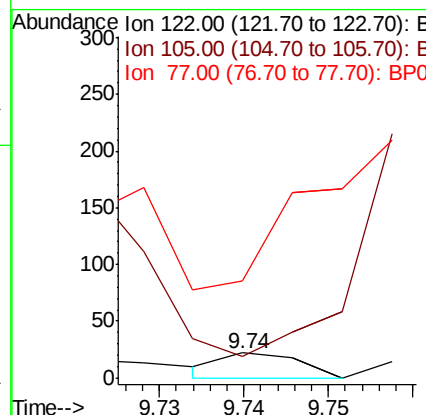
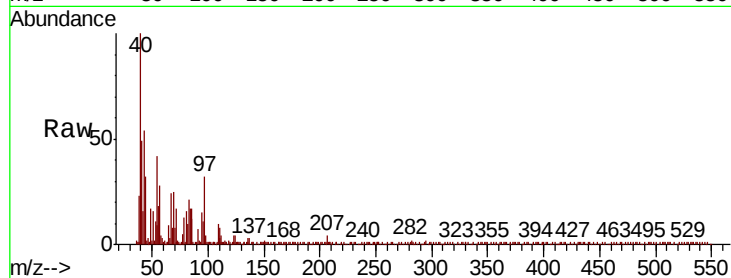




#32
Benzoic acid
Concen: 4.708 ng
RT: 9.74 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

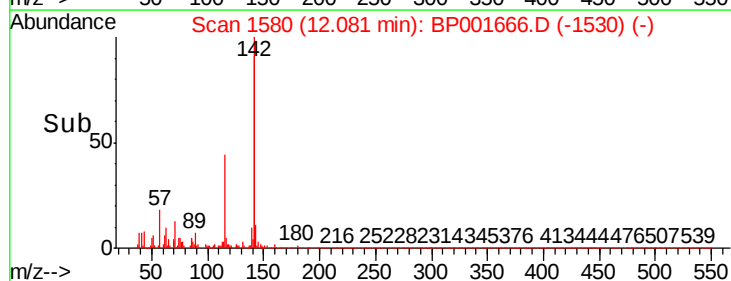
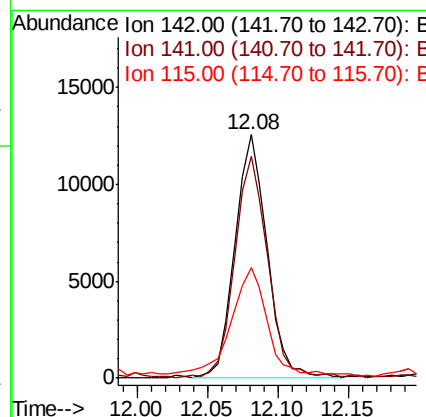
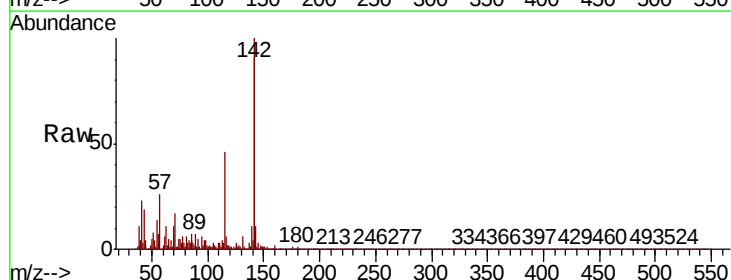
Instrument :
BNA_P
ClientSampled :

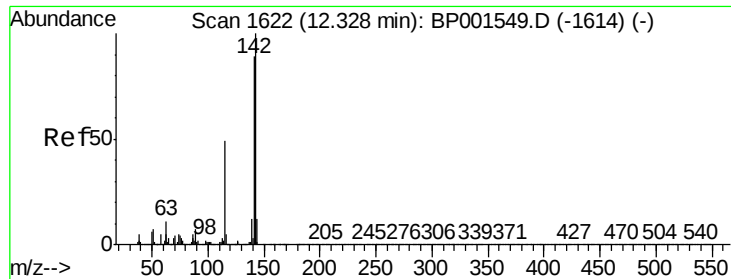
Tot Ion	Ratio	Lower	Upper
122	100		
105	86.4	119.5	159.5#
77	390.9	102.8	142.8#



#37
2-Methylnaphthalene
Concen: 2.327 ng
RT: 12.08 min Scan# 1580
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.3	68.4	102.6
115	45.5	35.1	52.7

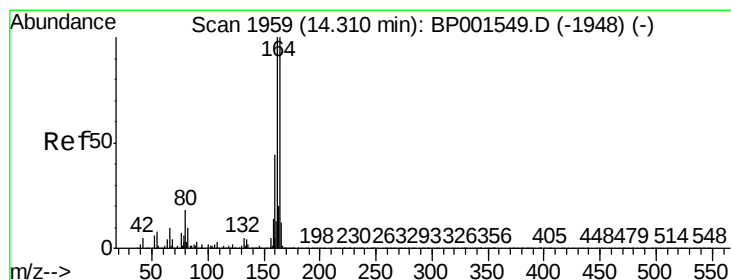
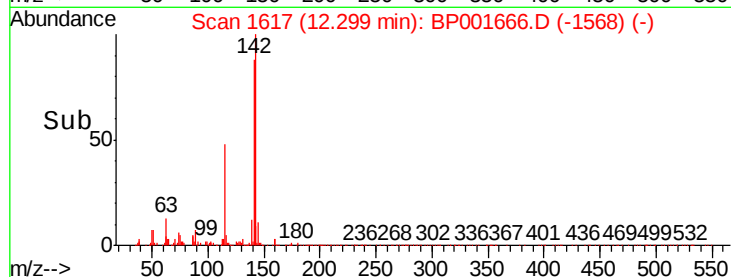
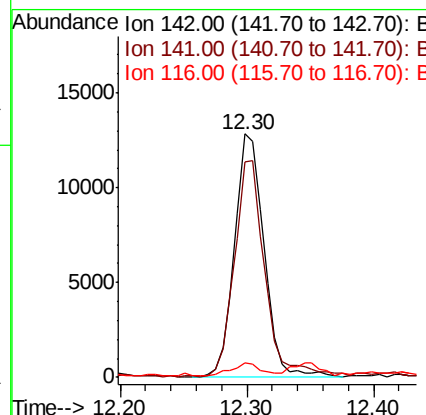
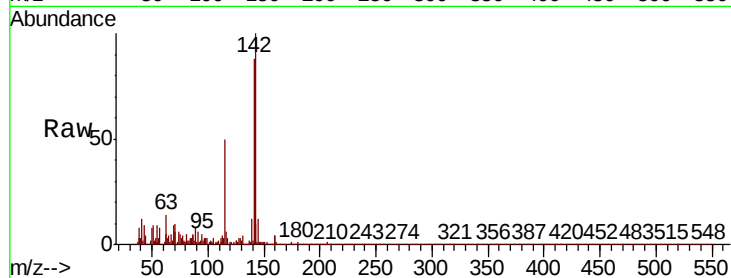




#38
 1-Methylnaphthalene
 Concen: 2.489 ng
 RT: 12.30 min Scan# 1617
 Delta R.T. -0.01 min
 Lab File: BP001666.D
 Acq: 17 Jan 2020 20:08

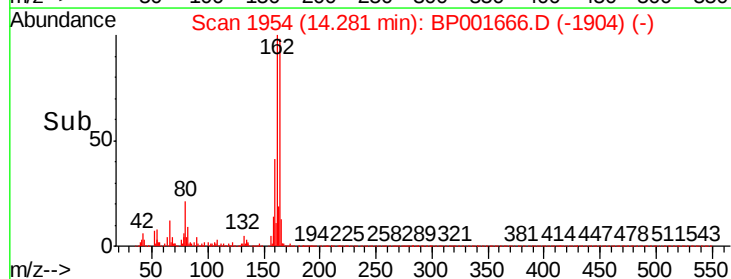
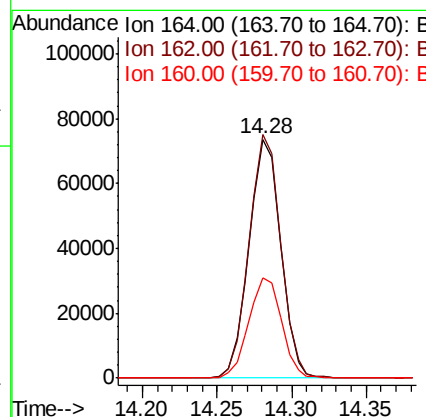
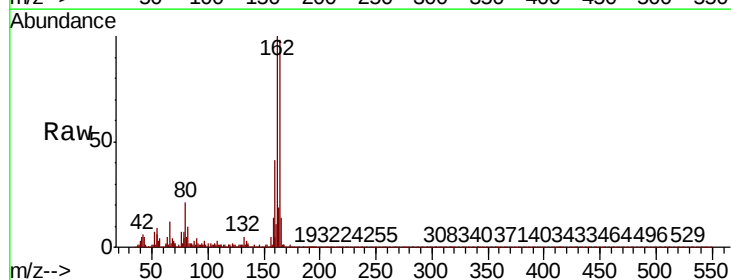
Instrument :
 BNA_P
 ClientSampleId :

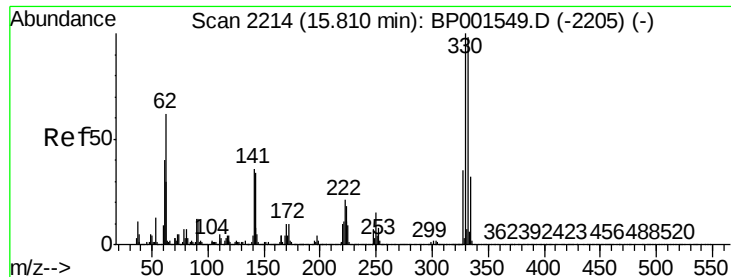
Tot Ion:142 Resp: 20479
 Ion Ratio Lower Upper
 142 100
 141 88.2 70.9 106.3
 116 6.0 4.1 6.1



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.28 min Scan# 1954
 Delta R.T. -0.01 min
 Lab File: BP001666.D
 Acq: 17 Jan 2020 20:08

Tgt Ion:164 Resp: 108547
 Ion Ratio Lower Upper
 164 100
 162 101.9 79.8 119.6
 160 42.2 35.0 52.6

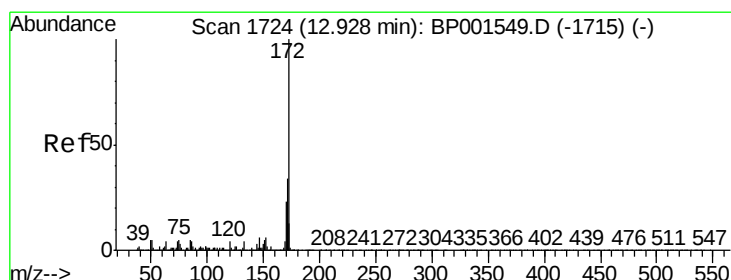
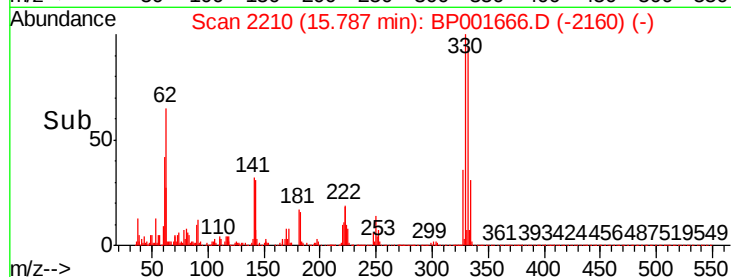
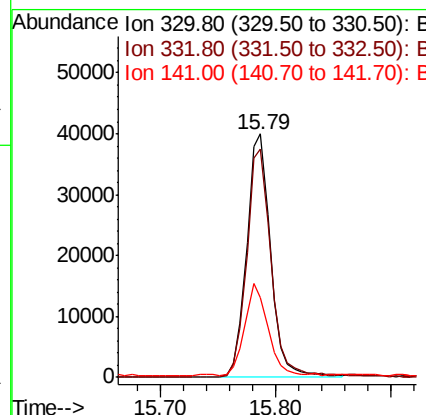
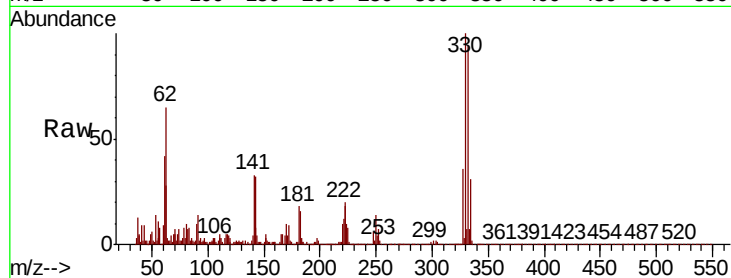




#42
 2,4,6-Tribromophenol
 Concen: 34.948 ng
 RT: 15.79 min Scan# 2210
 Delta R.T. -0.01 min
 Lab File: BP001666.D
 Acq: 17 Jan 2020 20:08

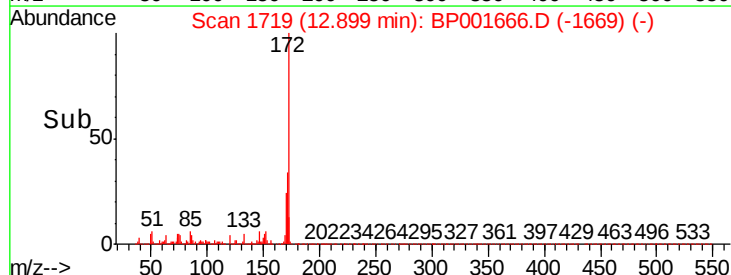
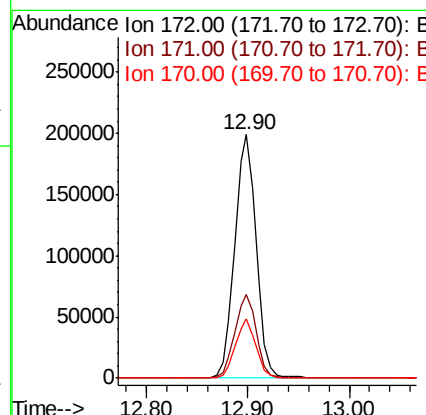
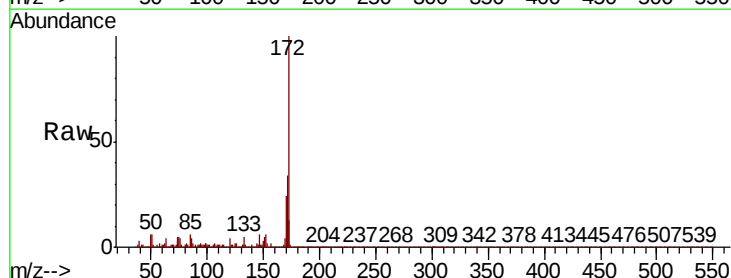
Instrument :
 BNA_P
 ClientSampled :

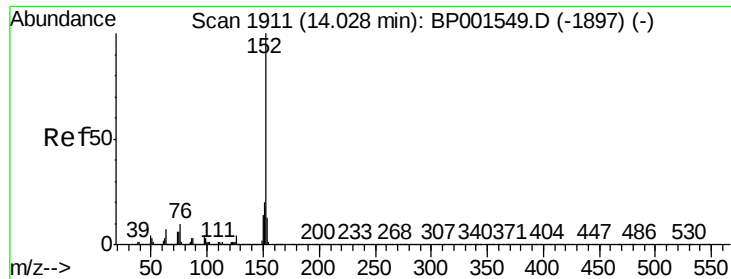
Tot Ion:330 Resp: 57744
 Ion Ratio Lower Upper
 330 100
 332 95.0 77.8 116.6
 141 35.9 28.7 43.1



#45
 2-Fluorobiphenyl
 Concen: 39.459 ng
 RT: 12.90 min Scan# 1719
 Delta R.T. -0.01 min
 Lab File: BP001666.D
 Acq: 17 Jan 2020 20:08

Tgt Ion:172 Resp: 291317
 Ion Ratio Lower Upper
 172 100
 171 34.5 27.6 41.4
 170 24.1 18.3 27.5





#49

Acenaphthylene

Concen: 7.499 ng

RT: 14.00 min Scan# 1906

Delta R.T. -0.01 min

Lab File: BP001666.D

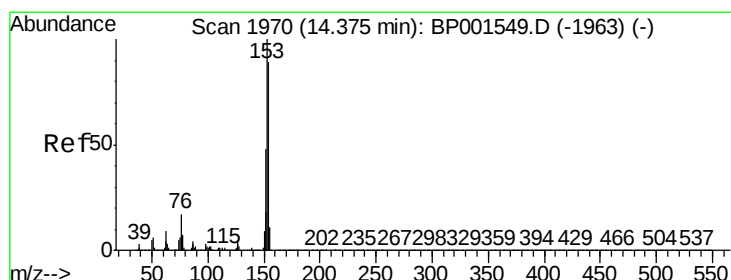
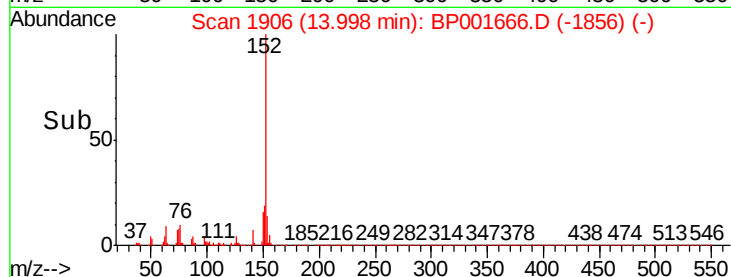
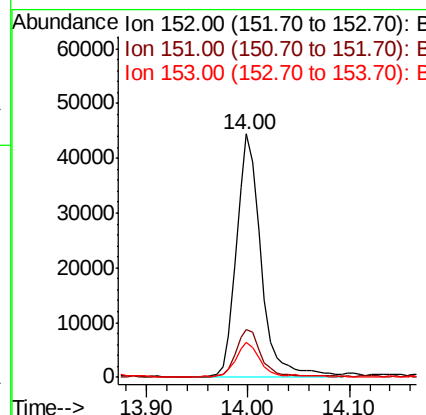
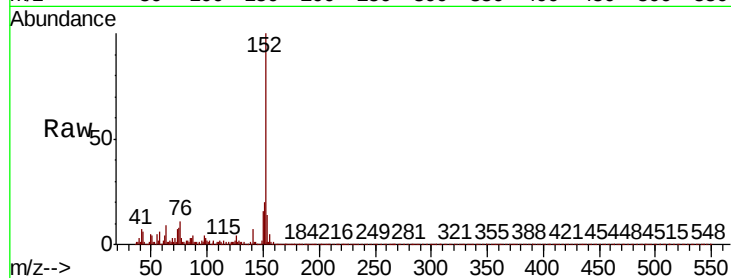
Acq: 17 Jan 2020 20:08

Instrument :

BNA_P

ClientSampleId :

Tot Ion:	152	Resp:	74770
Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.9	23.9
153	14.3	10.4	15.6



#52

Acenaphthene

Concen: 3.781 ng

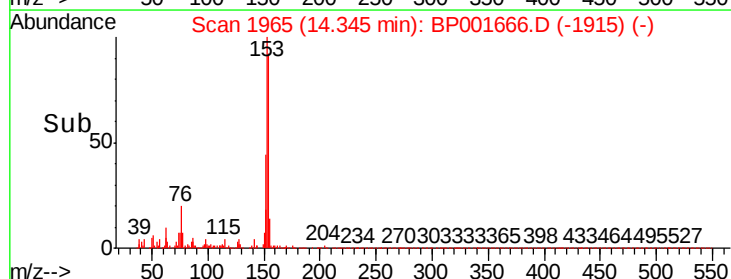
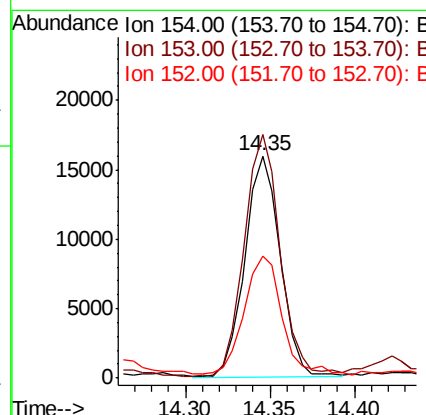
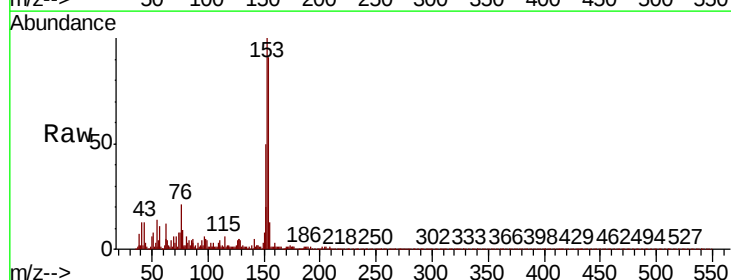
RT: 14.35 min Scan# 1965

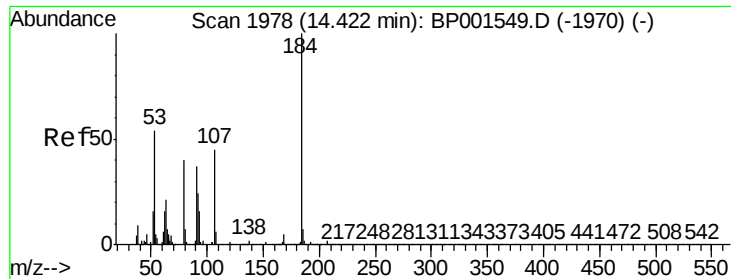
Delta R.T. -0.01 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

Tgt Ion:	154	Resp:	23346
Ion	Ratio	Lower	Upper
154	100		
153	109.7	89.4	134.2
152	54.7	42.6	64.0

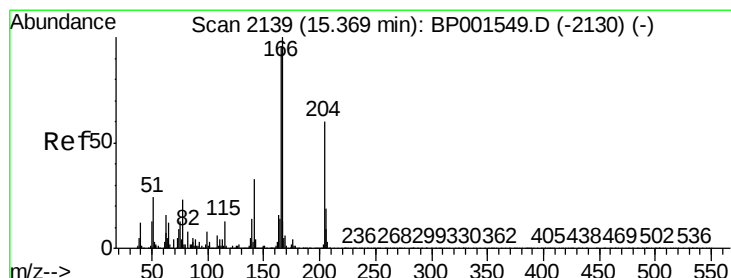
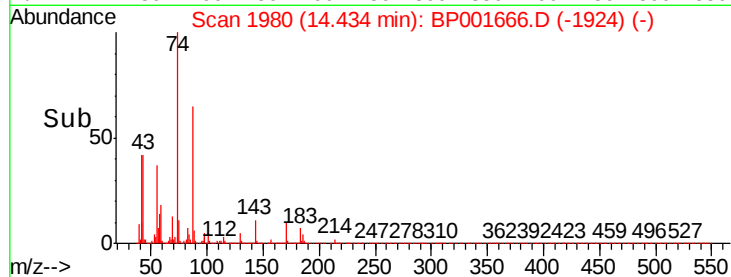
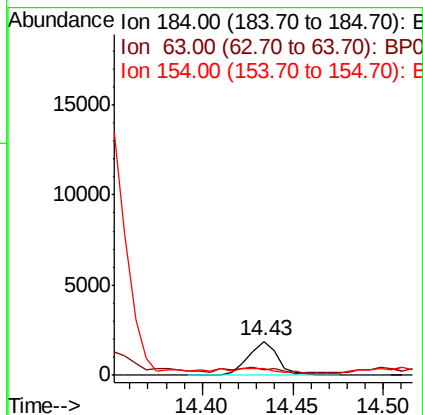
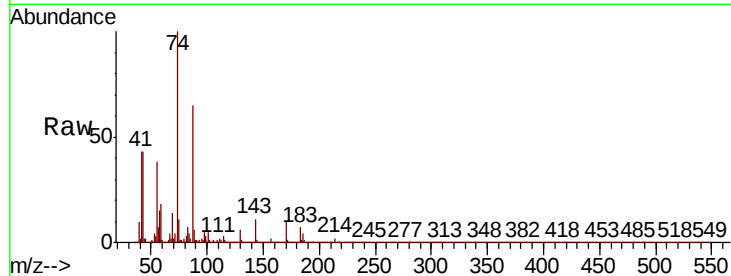




#54
2,4-Dinitrophenol
Concen: 2.017 ng
RT: 14.43 min Scan# 1980
Delta R.T. 0.03 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

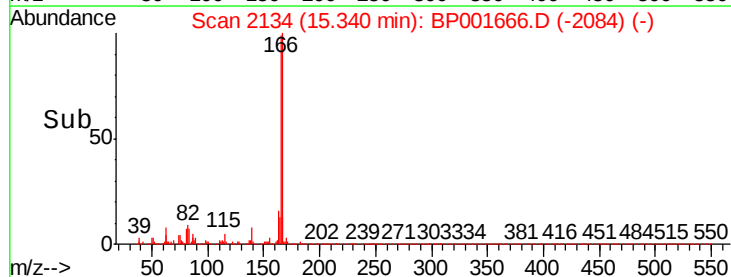
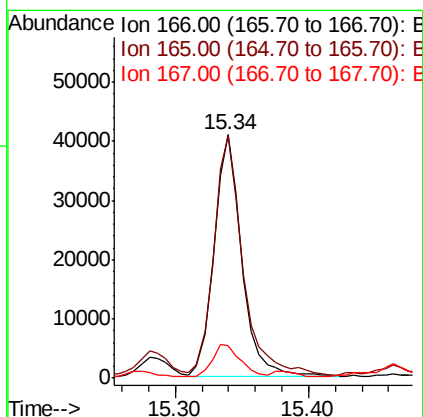
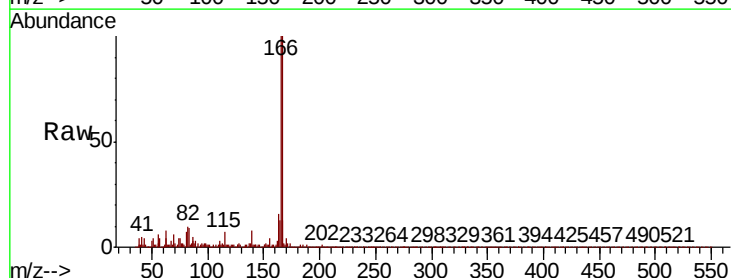
Instrument :
BNA_P
ClientSampleId :

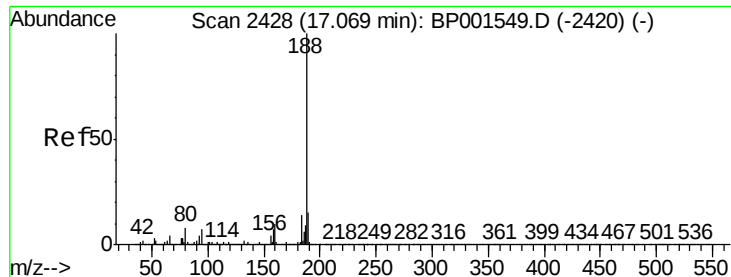
Tot Ion:184 Resp: 2150
Ion Ratio Lower Upper
184 100
63 17.5 59.7 89.5#
154 20.8 53.9 80.9#



#58
Fluorene
Concen: 7.030 ng
RT: 15.34 min Scan# 2134
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion:166 Resp: 59402
Ion Ratio Lower Upper
166 100
165 99.7 76.9 115.3
167 13.2 10.3 15.5

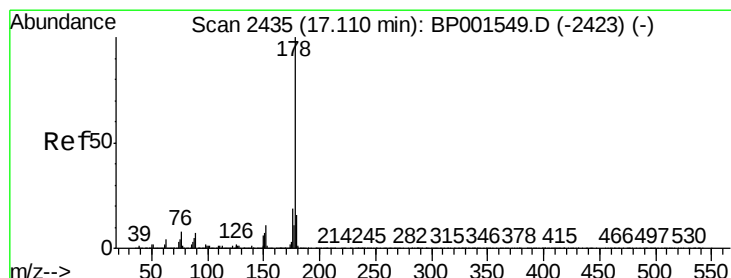
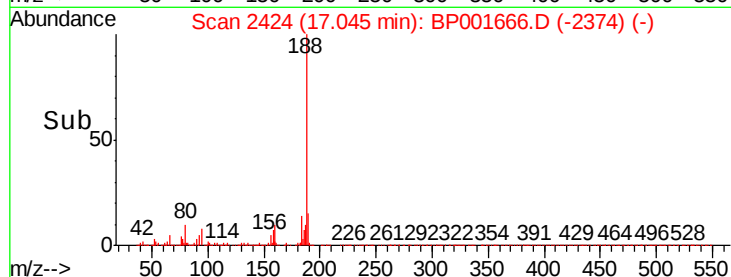
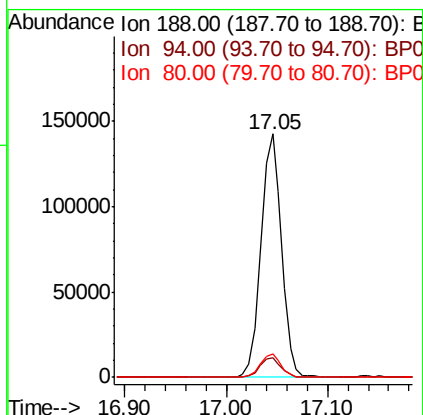
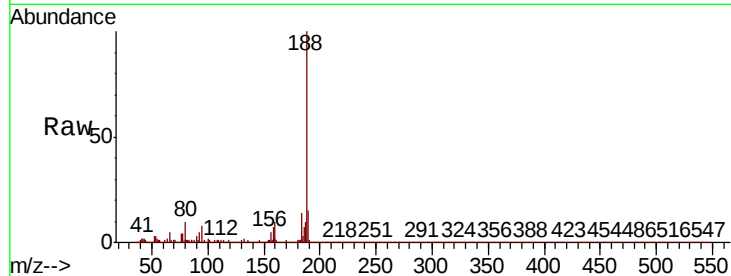




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.05 min Scan# 2424
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

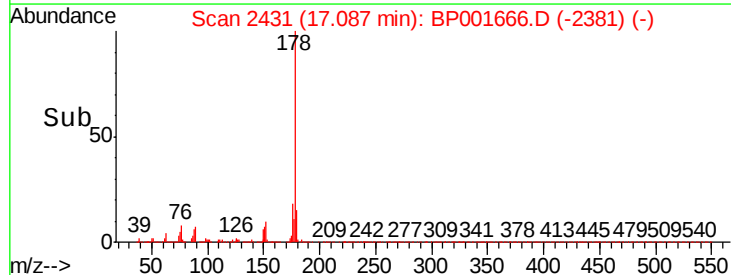
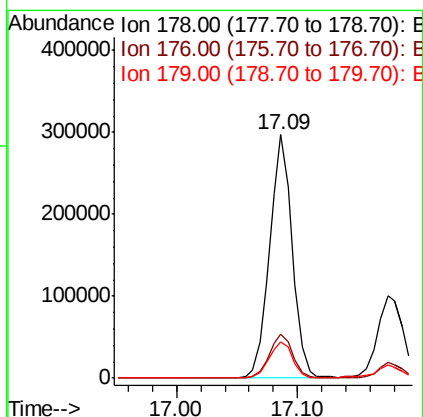
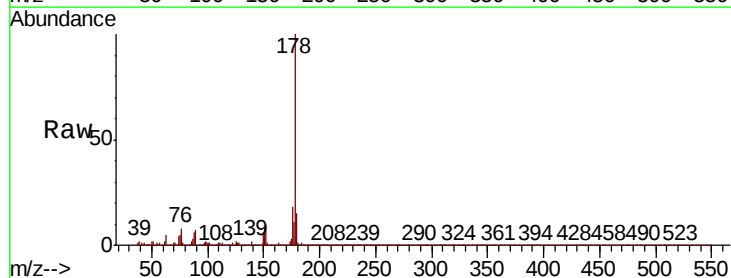
Instrument :
BNA_P
ClientSampleId :

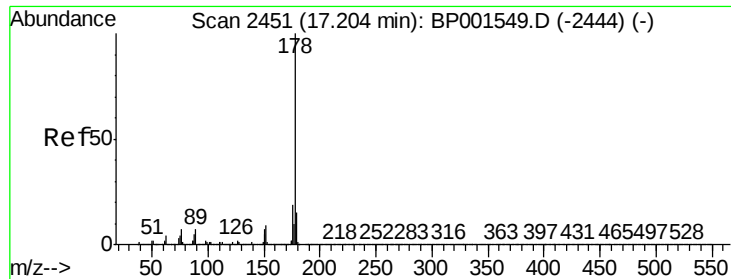
Tot Ion:188 Resp: 199405
Ion Ratio Lower Upper
188 100
94 7.8 5.9 8.9
80 9.8 6.8 10.2



#71
Phenanthrene
Concen: 35.674 ng
RT: 17.09 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion:178 Resp: 386862
Ion Ratio Lower Upper
178 100
176 18.1 14.9 22.3
179 15.1 12.5 18.7





#72

Anthracene

Concen: 13.799 ng

RT: 17.17 min Scan# 2446

Delta R.T. -0.01 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

Instrument :

BNA_P

ClientSampleId :

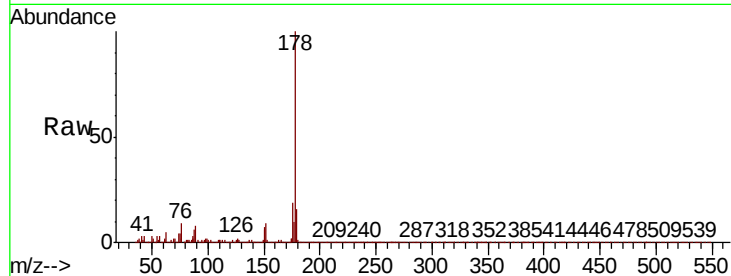
Tot Ion:178 Resp: 145675

Ion Ratio Lower Upper

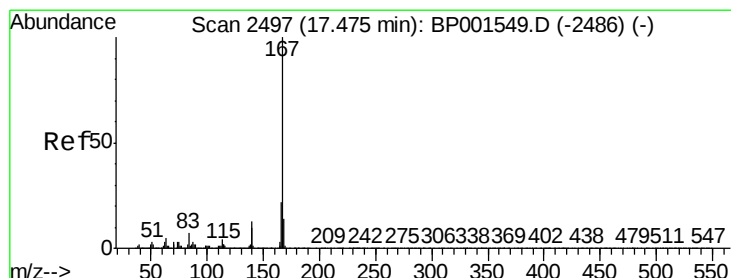
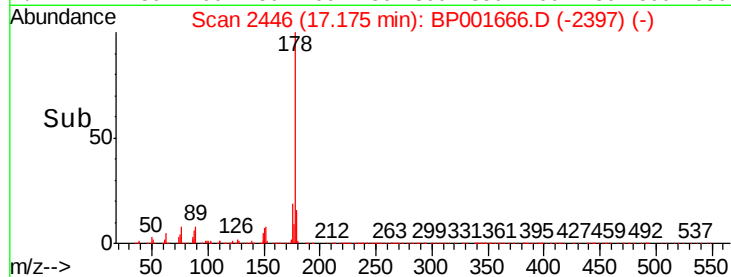
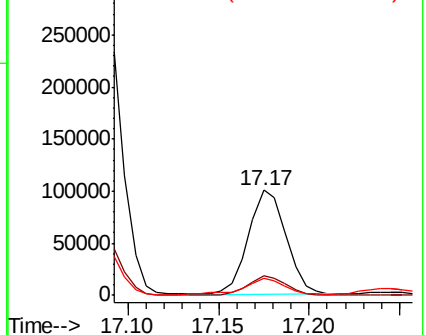
178 100

176 18.8 15.0 22.6

179 16.1 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: 2.425 ng

RT: 17.45 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

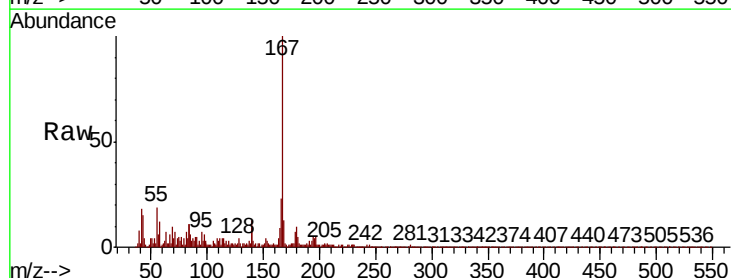
Tgt Ion:167 Resp: 24037

Ion Ratio Lower Upper

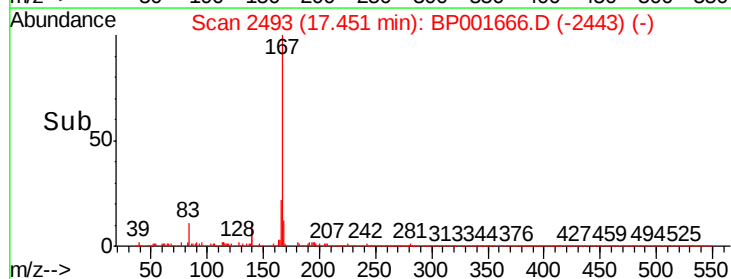
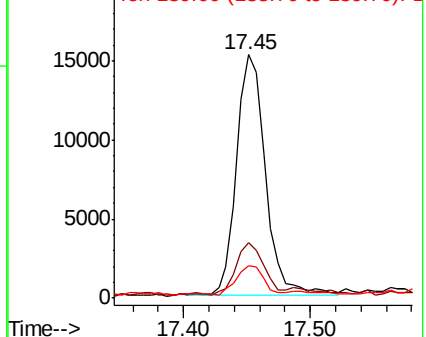
167 100

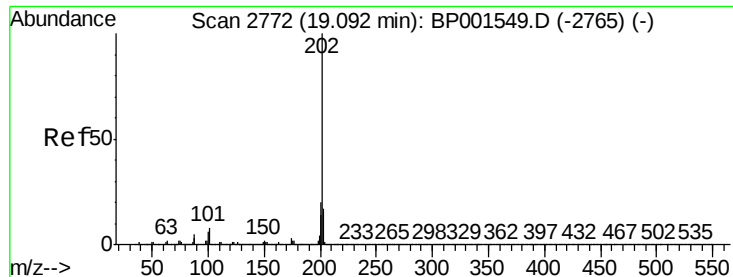
166 22.9 17.2 25.8

139 13.1 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 39.216 ng

RT: 19.07 min Scan# 2769

Delta R.T. 0.00 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

Instrument :

BNA_P

ClientSampleId :

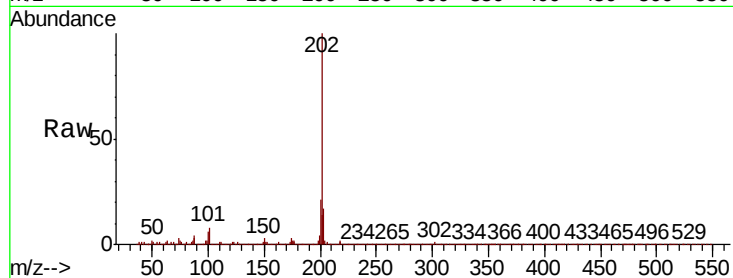
Tot Ion:202 Resp: 559580

Ion Ratio Lower Upper

202 100

101 8.0 0.0 28.4

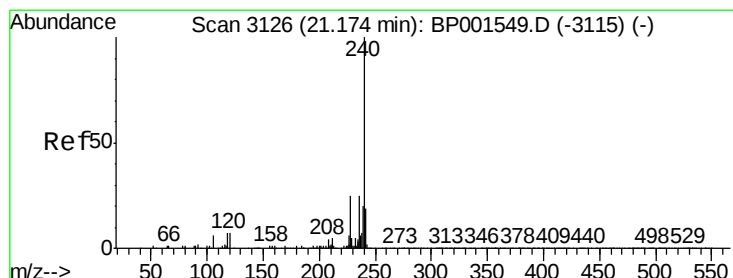
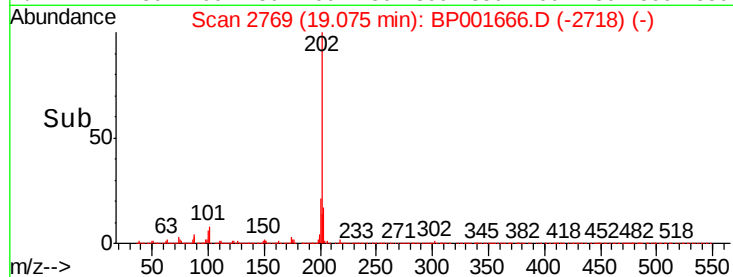
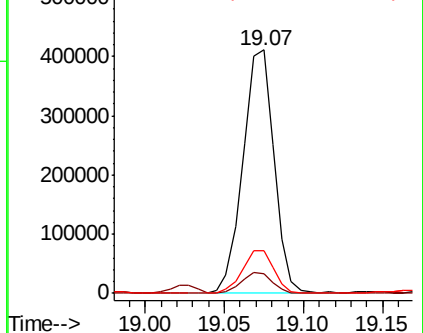
203 17.3 0.0 37.4



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: 21.15 min Scan# 3122

Delta R.T. -0.01 min

Lab File: BP001666.D

Acq: 17 Jan 2020 20:08

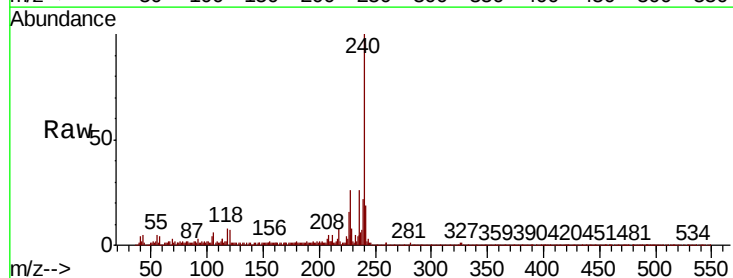
Tgt Ion:240 Resp: 188983

Ion Ratio Lower Upper

240 100

120 7.3 5.7 8.5

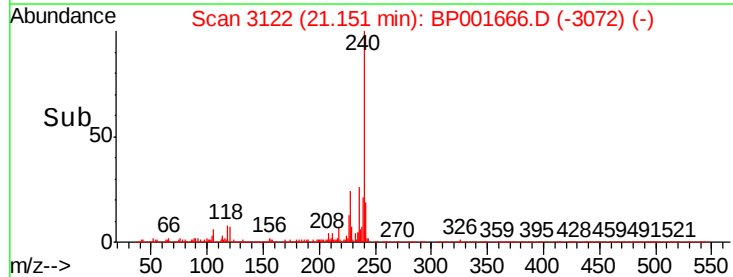
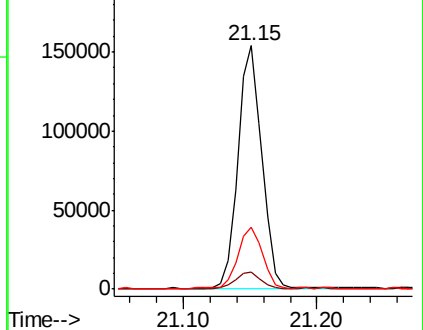
236 25.7 20.4 30.6

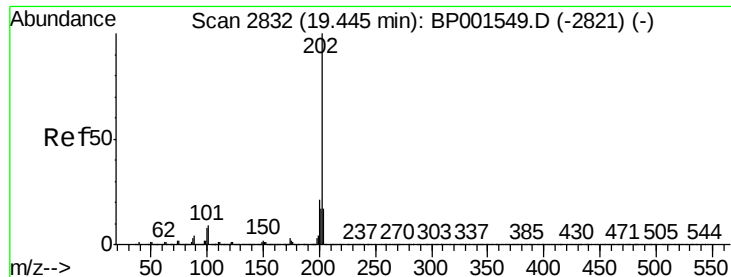


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 40.465 ng

RT: 19.42 min Scan# 2828

Delta R.T. -0.01 min

Lab File: BP001666.D

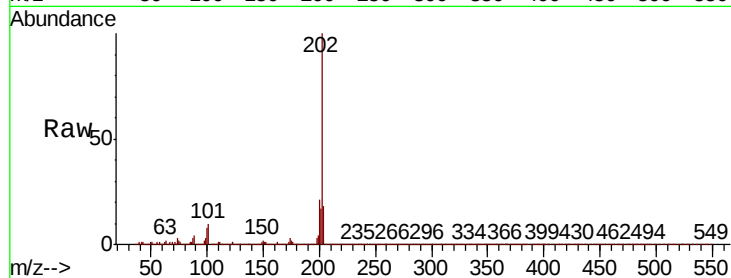
Acq: 17 Jan 2020 20:08

Instrument :

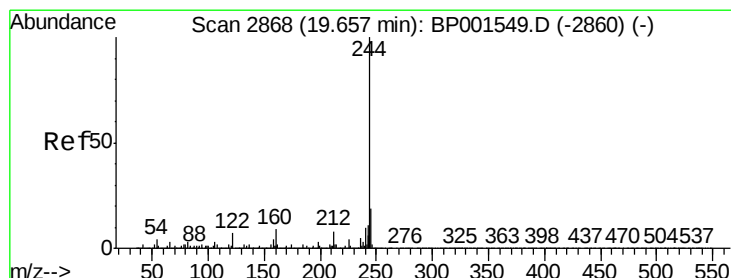
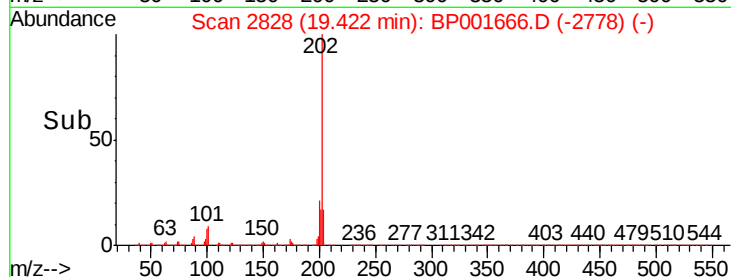
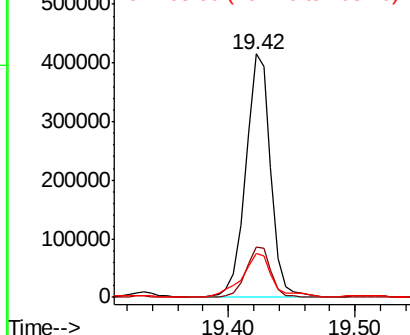
BNA_P

ClientSampled :

Tot Ion:	202	Resp:	561743
Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.6
203	17.8	13.7	20.5



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: 30.884 ng

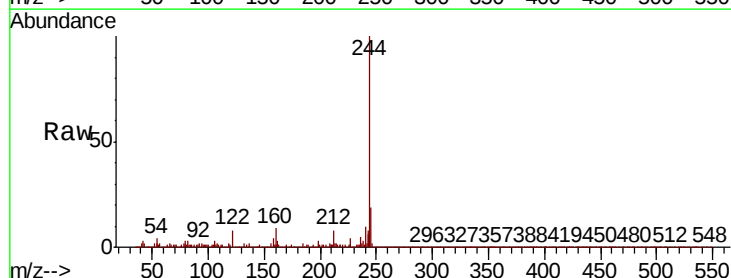
RT: 19.63 min Scan# 2864

Delta R.T. -0.01 min

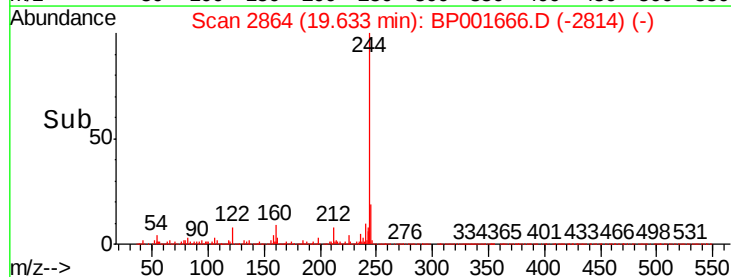
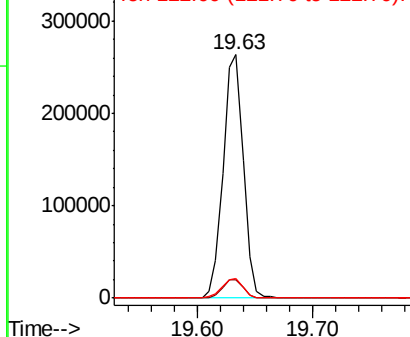
Lab File: BP001666.D

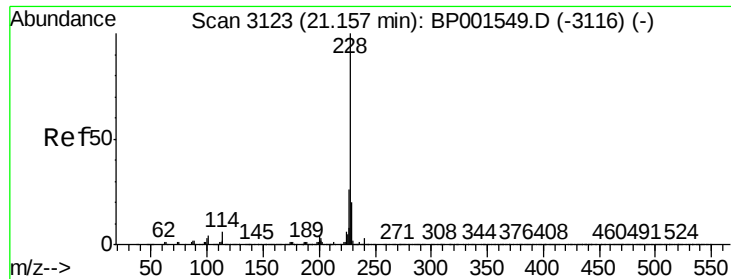
Acq: 17 Jan 2020 20:08

Tgt Ion:	244	Resp:	319101
Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.3	9.5
122	8.3	5.8	8.6



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

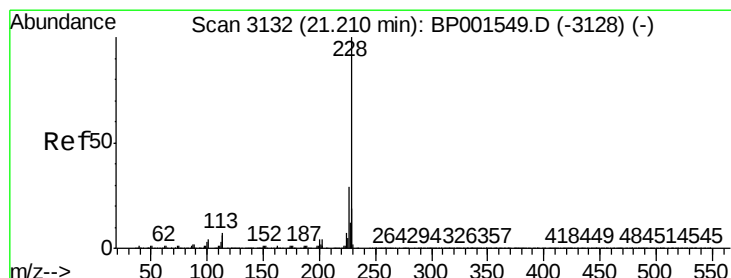
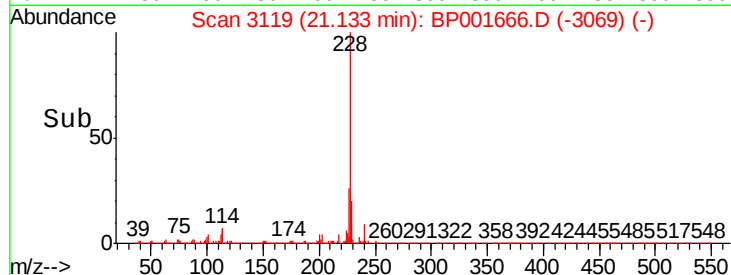
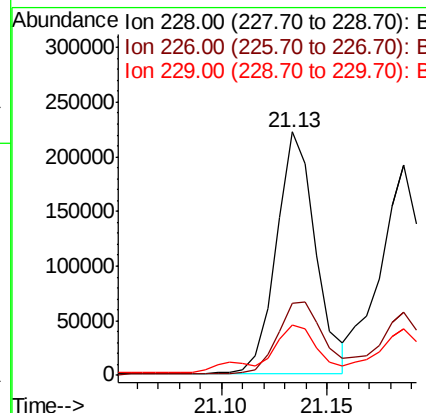
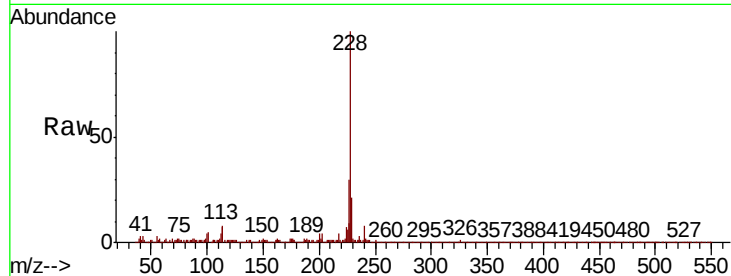




#81
Benzo(a)anthracene
Concen: 21.829 ng
RT: 21.13 min Scan# 3119
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

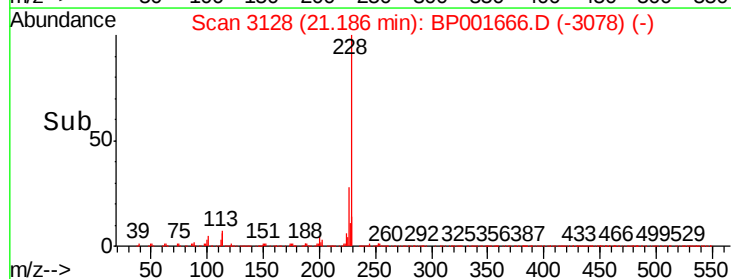
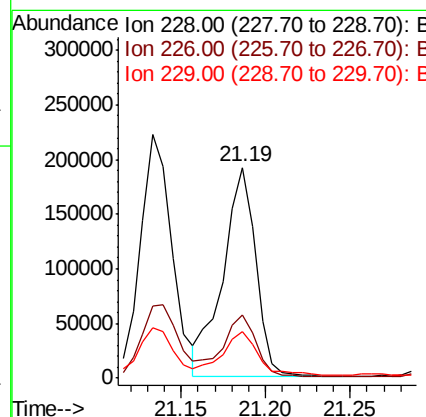
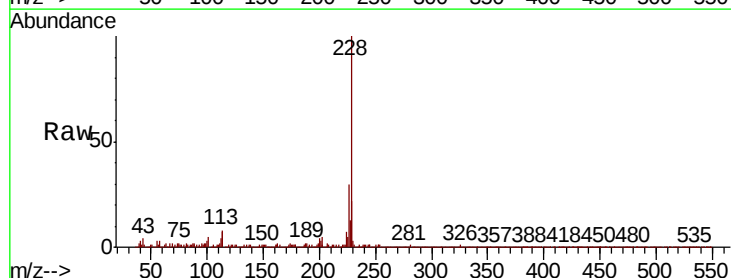
Instrument :
BNA_P
ClientSampleId :

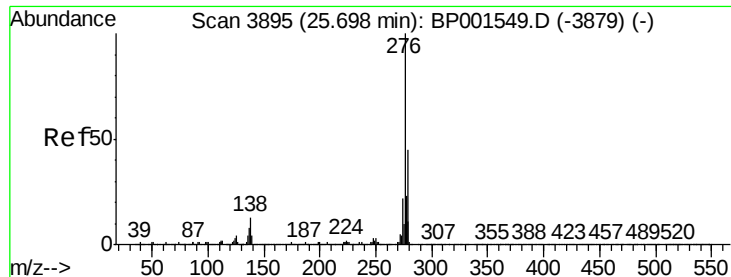
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	21.2	31.8
229	20.6	16.1	24.1



#83
Chrysene
Concen: 20.268 ng
RT: 21.19 min Scan# 3128
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.2	34.8
229	22.0	15.2	22.8

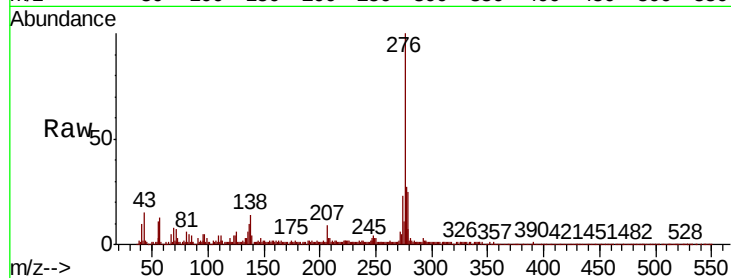




#86
Indeno(1,2,3-cd)pyrene
Concen: 9.963 ng
RT: 25.64 min Scan# 3886
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Instrument :
BNA_P
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	14.1	11.1	16.7
277	24.5	20.4	30.6

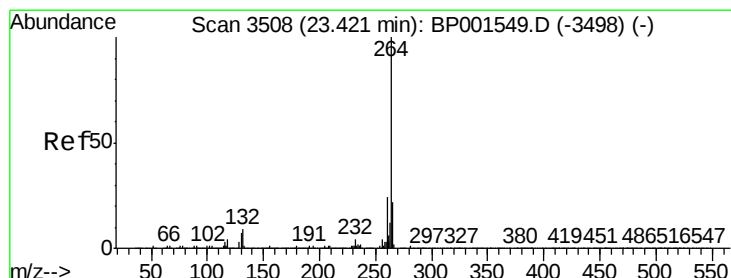
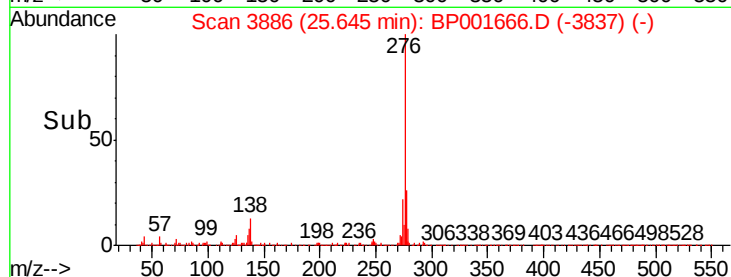
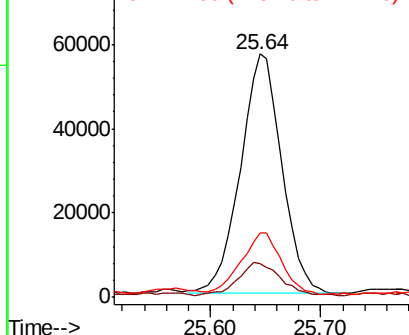


Abundance

Ion 276.00 (275.70 to 276.70): E

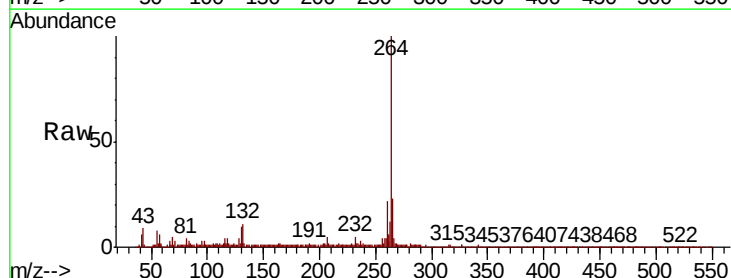
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 23.39 min Scan# 3502
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.3	19.0	28.6
265	23.0	18.2	27.4

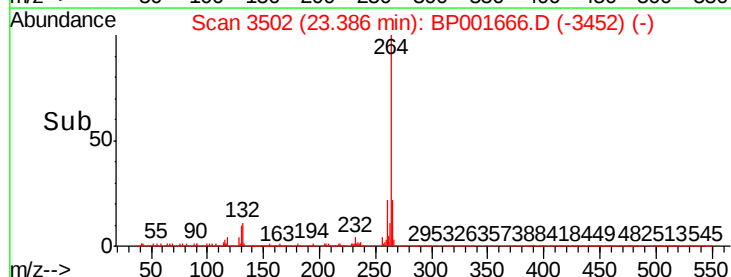
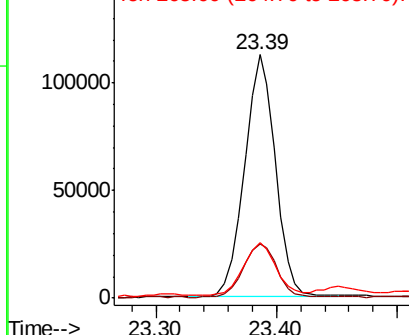


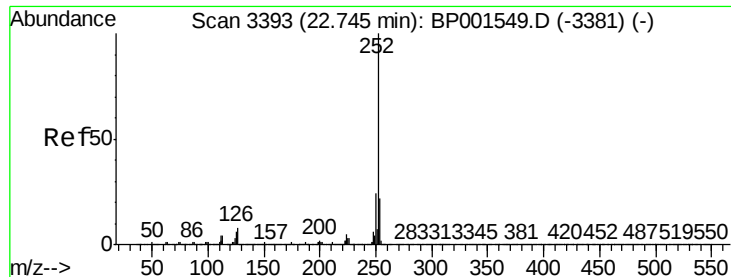
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

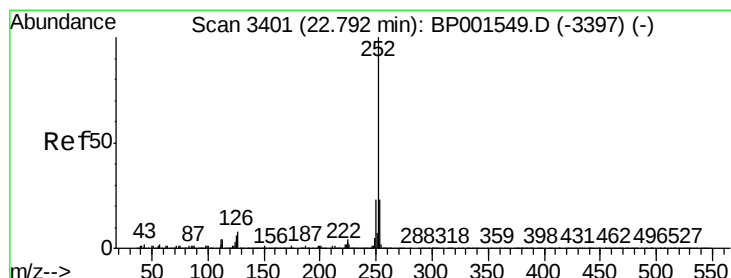
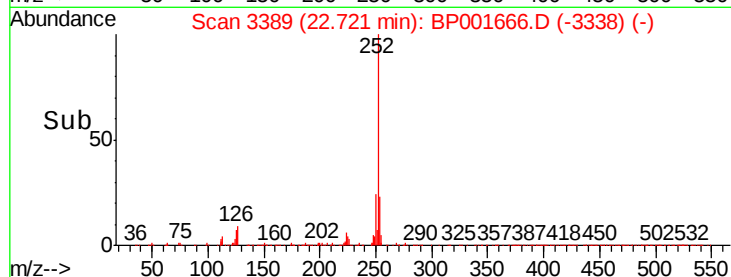
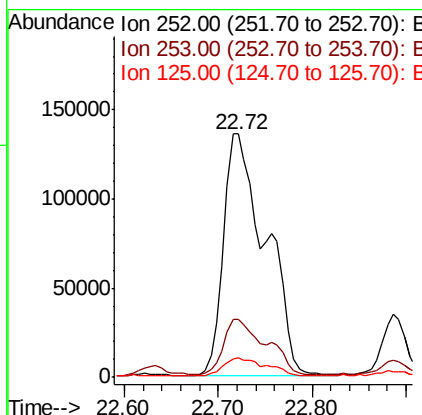
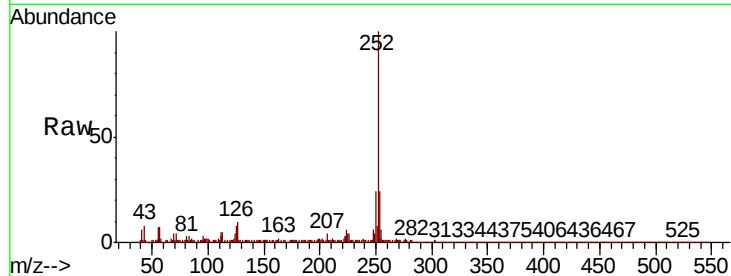




#88
Benzo(b)fluoranthene
Concen: 33.447 ng
RT: 22.72 min Scan# 3389
Delta R.T. 0.00 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

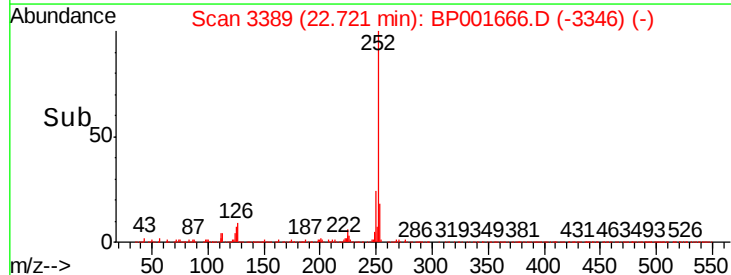
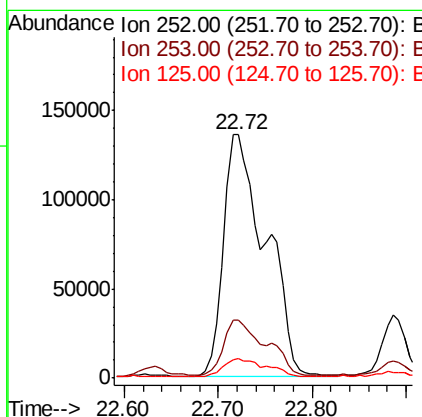
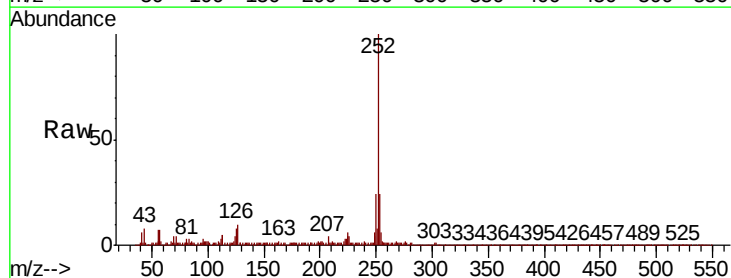
Instrument :
BNA_P
ClientSampleId :

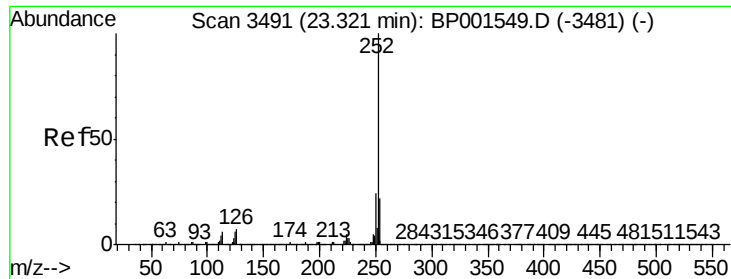
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.6	26.4
125	8.0	4.6	7.0



#89
Benzo(k)fluoranthene
Concen: 34.305 ng
RT: 22.72 min Scan# 3389
Delta R.T. -0.05 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	8.0	4.6	6.8

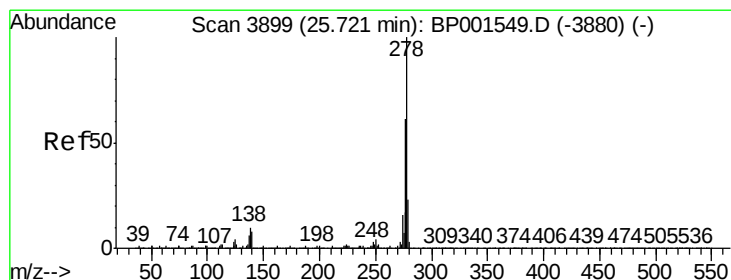
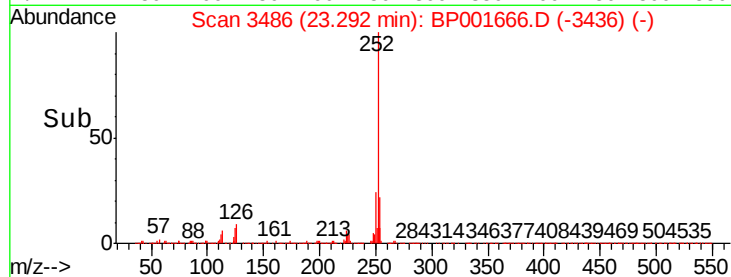
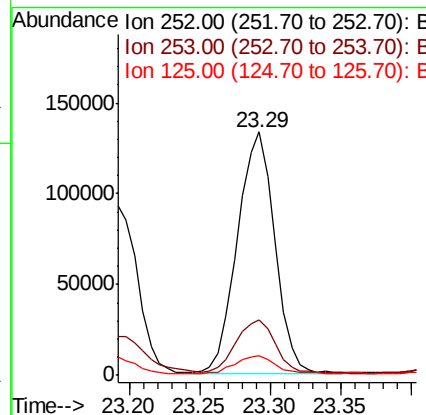
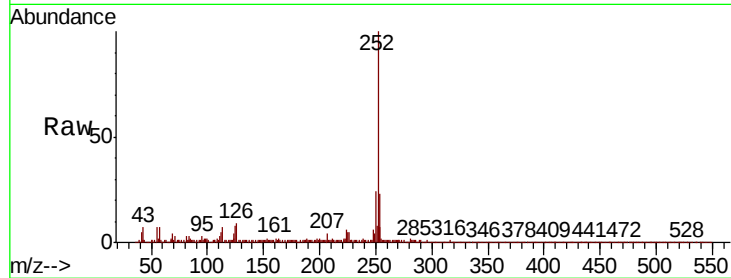




#90
Benzo(a)pyrene
Concen: 20.486 ng
RT: 23.29 min Scan# 3486
Delta R.T. -0.01 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

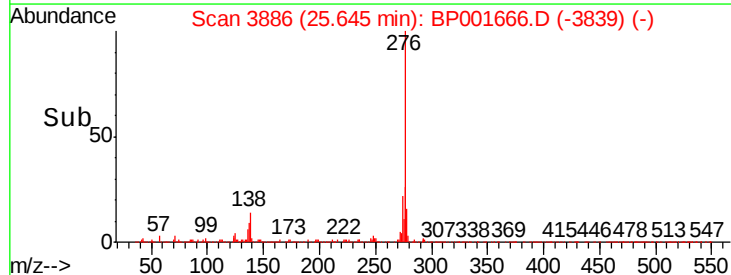
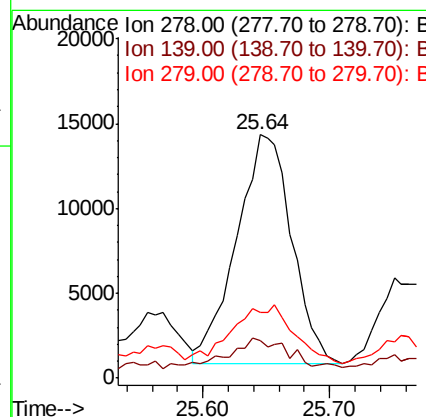
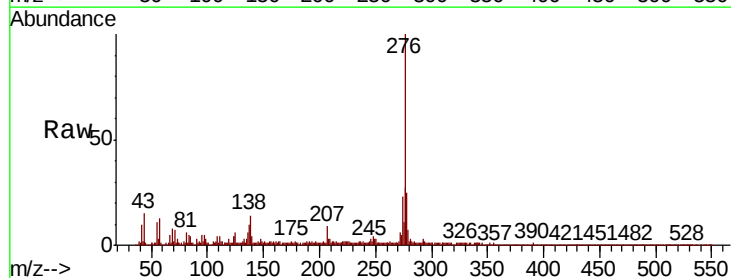
Instrument :
BNA_P
ClientSampleId :

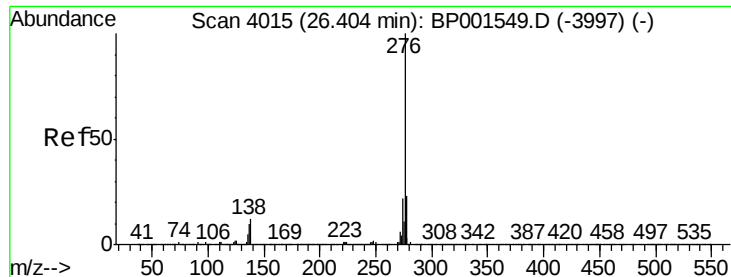
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	8.0	5.0	7.4#



#91
Dibenzo(a,h)anthracene
Concen: 3.280 ng
RT: 25.64 min Scan# 3886
Delta R.T. -0.02 min
Lab File: BP001666.D
Acq: 17 Jan 2020 20:08

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.4	6.7	10.1#
279	27.1	18.6	28.0





#92
 Benzo(a,h,i)perylene
 Concen: 11.942 ng
 RT: 26.34 min Scan# 4004
 Delta R.T. 0.00 min
 Lab File: BP001666.D
 Acq: 17 Jan 2020 20:08

Instrument :
 BNA_P
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	16.0	9.4	14.2

