

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051819\
 Data File : BF114399.D
 Acq On : 18 May 2019 18:50
 Operator : JU/SJ
 Sample : K2896-07
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 20 04:11:11 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	248474	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	930597	20.00	ng	-0.02
39) Acenaphthene-d10	9.87	164	439164	20.00	ng	-0.02
64) Phenanthrene-d10	11.35	188	837177	20.00	ng	-0.02
76) Chrysene-d12	13.99	240	473594	20.00	ng	-0.03
87) Perylene-d12	15.46	264	522700	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1362677	88.25	ng	-0.01
7) Phenol-d6	6.48	99	1805255	98.85	ng	-0.01
23) Nitrobenzene-d5	7.40	82	1060049	63.93	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	391392	86.21	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	1316595	45.35	ng	-0.02
79) Terphenyl-d14	12.93	244	1139240	49.59	ng	-0.02

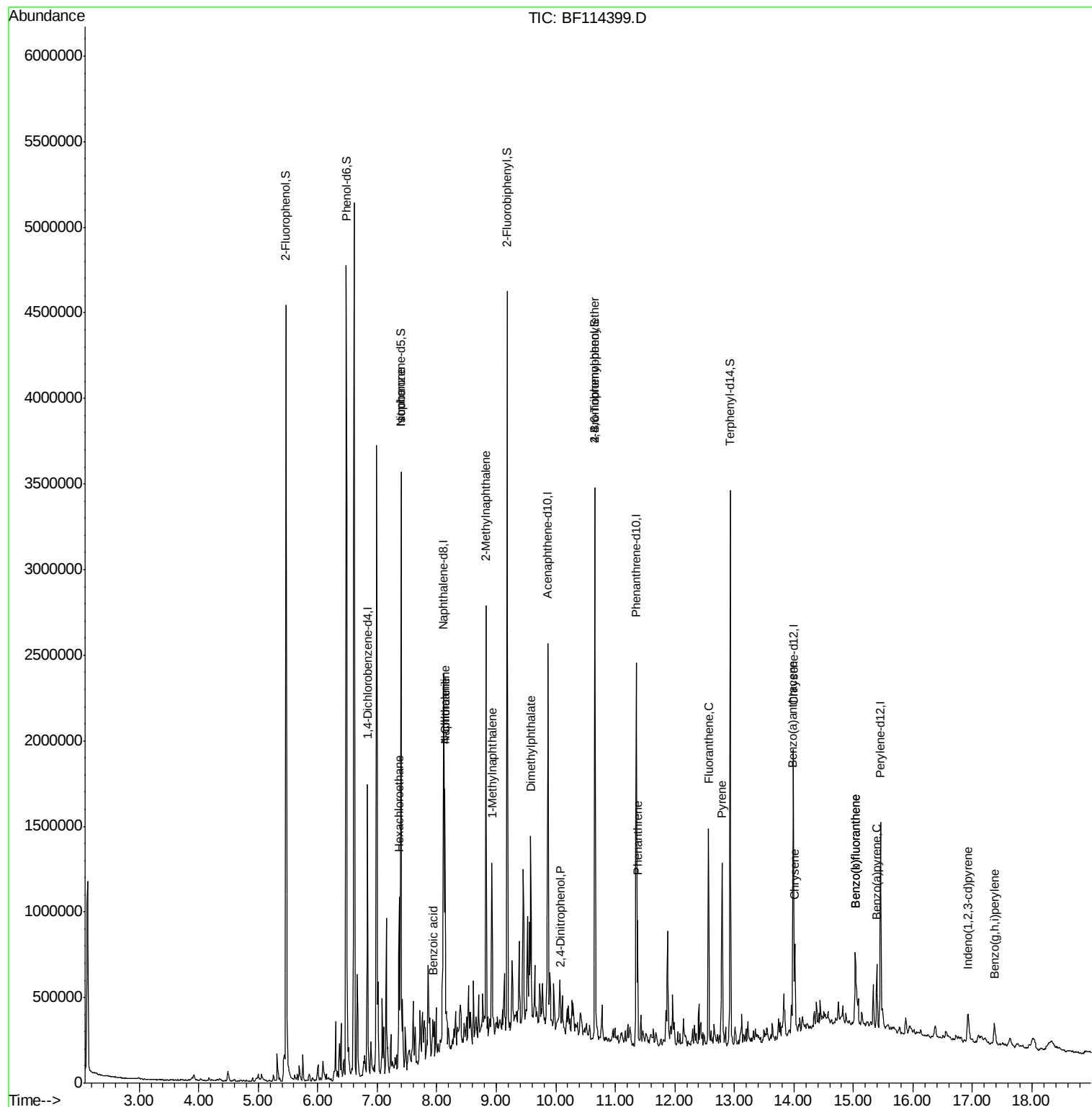
Target Compounds				Qvalue		
18) Hexachloroethane	7.37	117	70348	10.052	ng	# 1
25) Isophorone	7.40	82	1060049	34.469	ng	# 65
31) Naphthalene	8.14	128	691017	15.897	ng	97
32) Benzoic acid	7.93	122	2716	7.273	ng	# 1
33) 4-Chloroaniline	8.14	127	91595	4.624	ng	# 34
37) 2-Methylnaphthalene	8.83	142	680791	24.274	ng	97
38) 1-Methylnaphthalene	8.93	142	290949	11.016	ng	98
50) Dimethylphthalate	9.58	163	295880	9.178	ng	# 99
54) 2,4-Dinitrophenol	10.09	184	124	6.777	ng	# 1
67) 4-Bromophenyl-phenylether	10.66	248	25411	2.757	ng	# 1
71) Phenanthrene	11.37	178	264612	6.497	ng	97
75) Fluoranthene	12.57	202	531871	12.126	ng	99
78) Pvrene	12.79	202	470588	12.352	ng	98
81) Benzo(a)anthracene	13.98	228	228445	7.458	ng	98
83) Chrysene	14.02	228	206197	6.867	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	108280	4.080	ng	97
88) Benzo(b)fluoranthene	15.03	252	323184	9.651	ng	99
89) Benzo(k)fluoranthene	15.03	252	323184	10.506	ng	99
90) Benzo(a)pvrene	15.40	252	186540	6.330	ng	99
92) Benzo(a,h,i)perylene	17.37	276	100976	4.114	ng	96

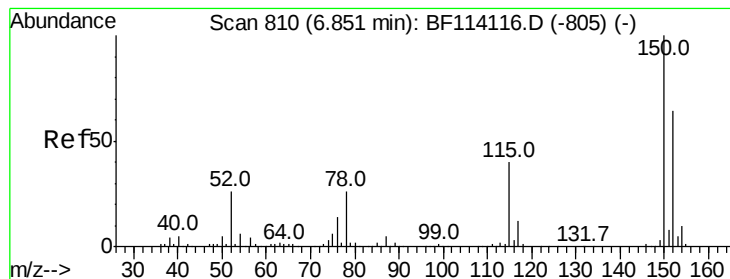
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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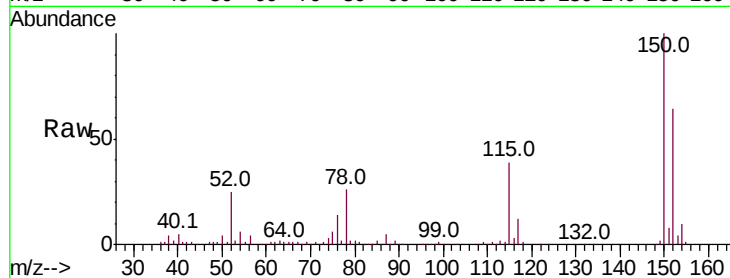


#1

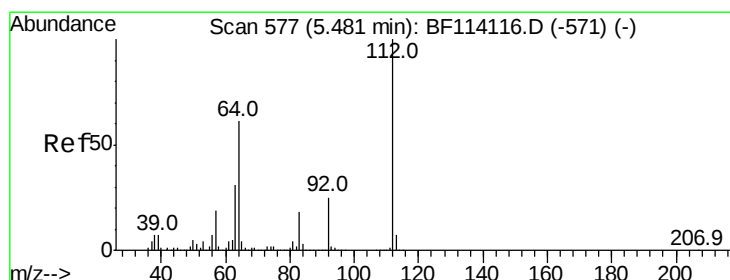
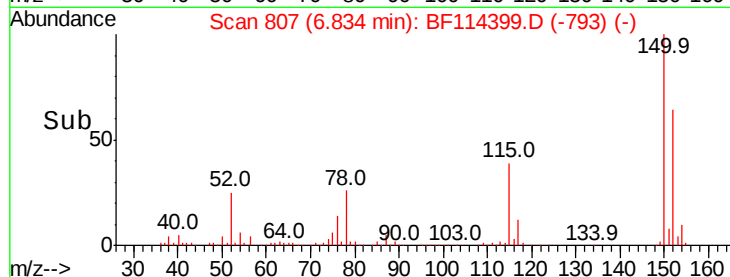
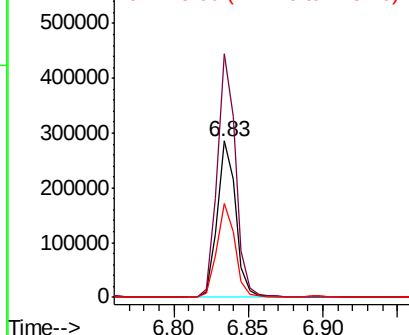
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.02 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 248474
Ion Ratio Lower Upper
152 100
150 156.0 124.3 186.5
115 60.3 49.1 73.7



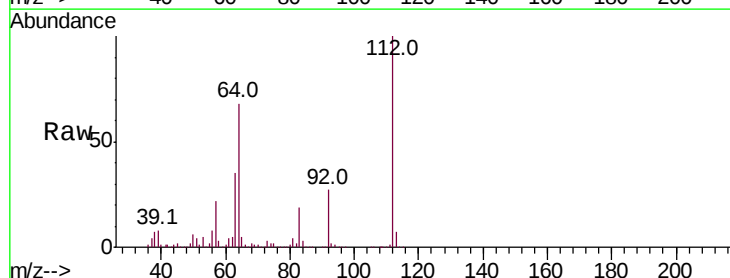
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



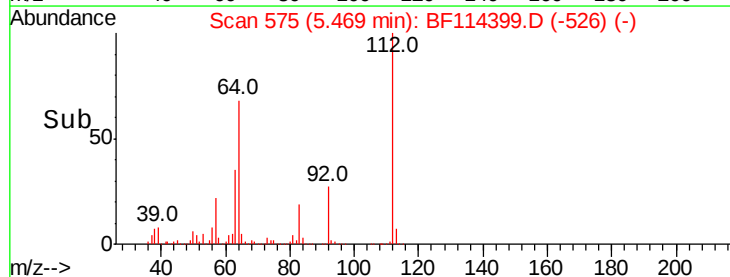
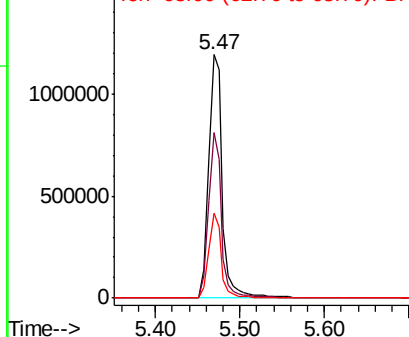
#5

2-Fluorophenol
Concen: 88.255 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Tgt Ion:112 Resp: 1362677
Ion Ratio Lower Upper
112 100
64 67.8 49.0 73.6
63 34.9 24.6 37.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 98.855 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

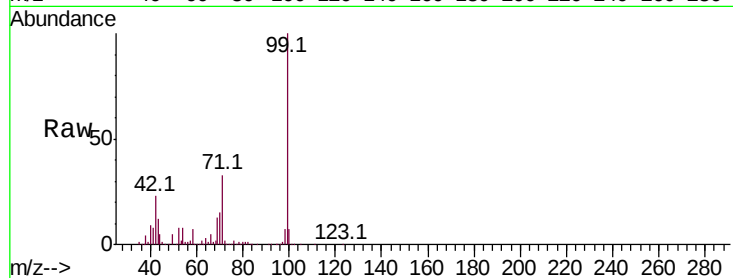
Tot Ion: 99 Resp: 1805255

Ion Ratio Lower Upper

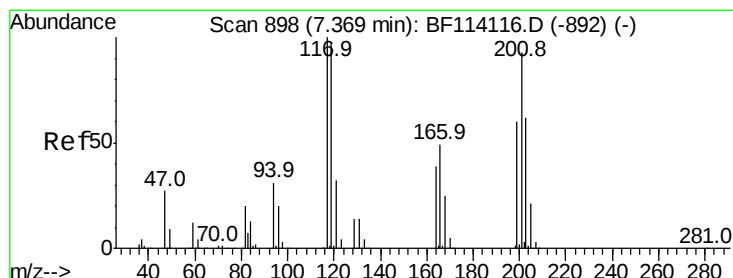
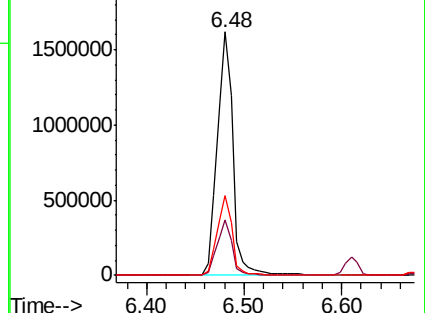
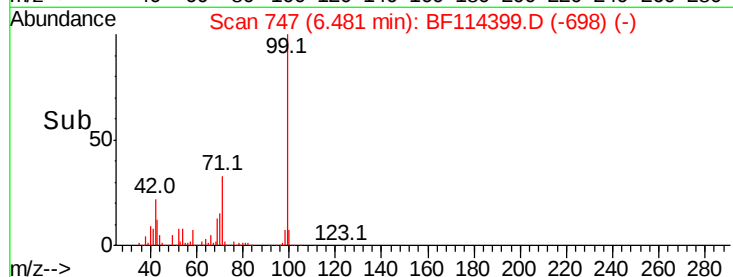
99 100

42 22.5 17.9 26.9

71 32.9 26.2 39.2



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#18

Hexachloroethane

Concen: 10.052 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.00 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

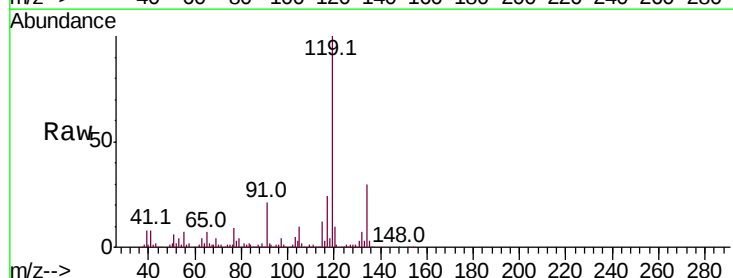
Tgt Ion: 117 Resp: 70348

Ion Ratio Lower Upper

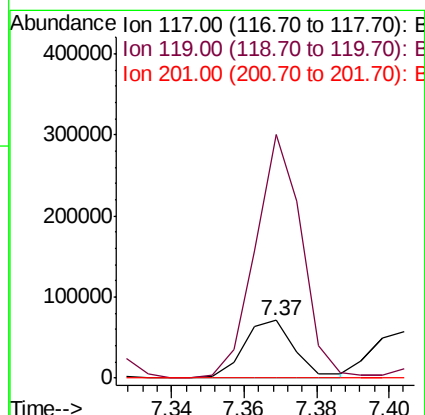
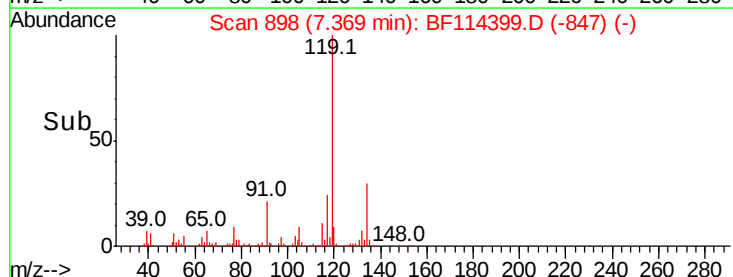
117 100

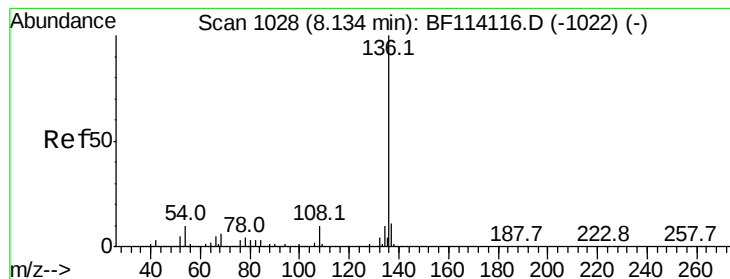
119 421.6 77.4 116.2#

201 0.0 74.5 111.7#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.02 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 930597

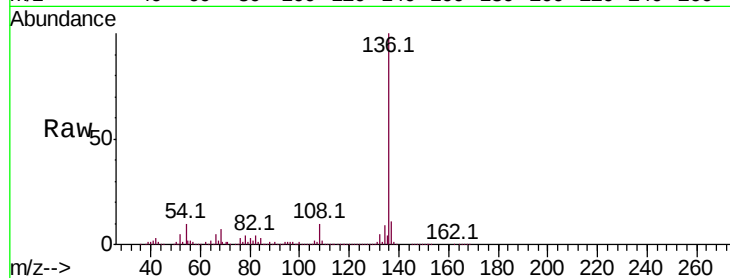
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 9.8 7.8 11.8

68 6.8 5.1 7.7

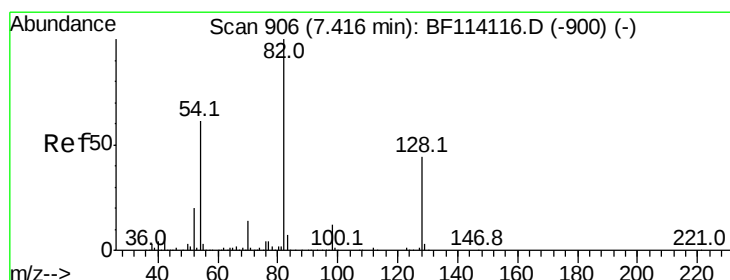
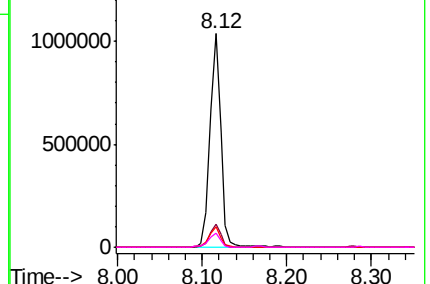
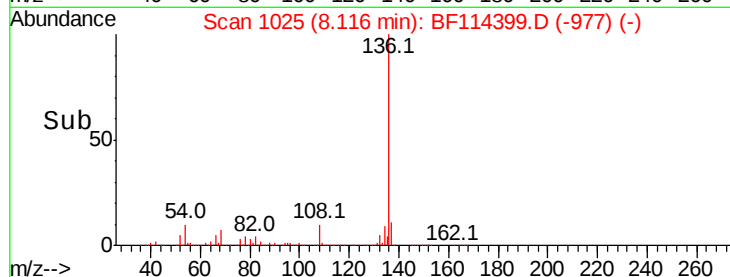


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 63.927 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

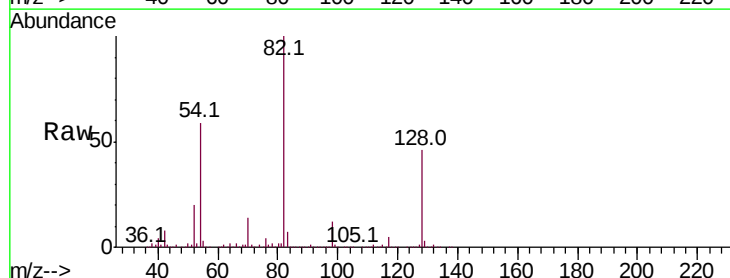
Tgt Ion: 82 Resp: 1060049

Ion Ratio Lower Upper

82 100

128 45.7 35.5 53.3

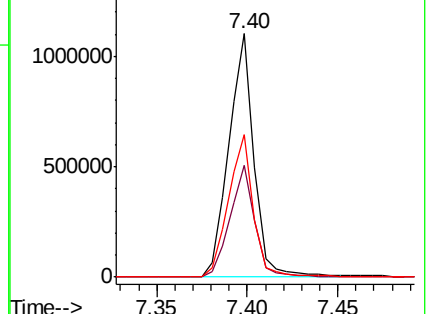
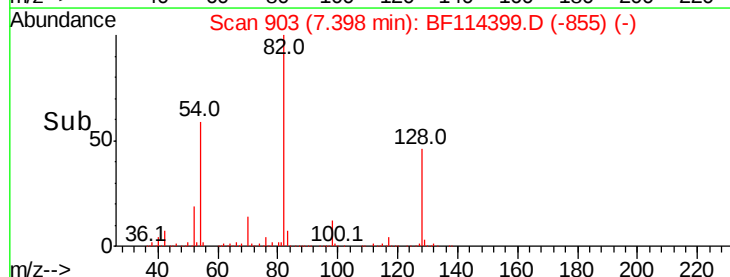
54 58.5 48.5 72.7



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.469 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

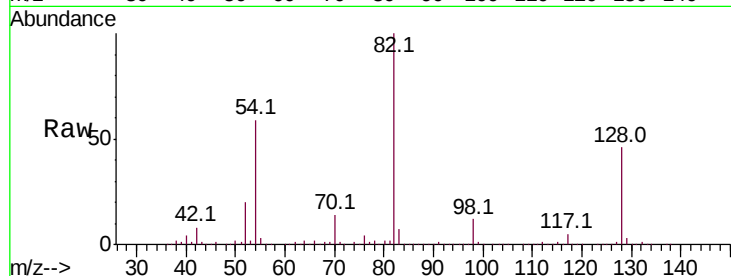
Tot Ion: 82 Resp: 1060049

Ion Ratio Lower Upper

82 100

95 0.4 5.6 8.4#

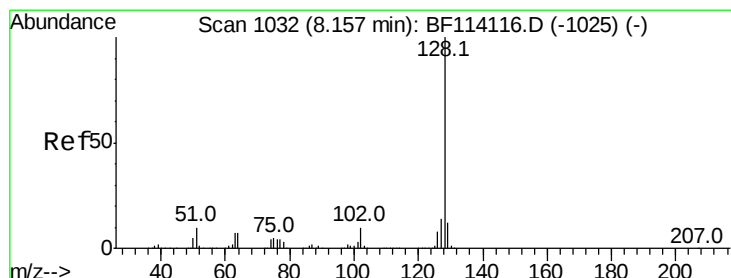
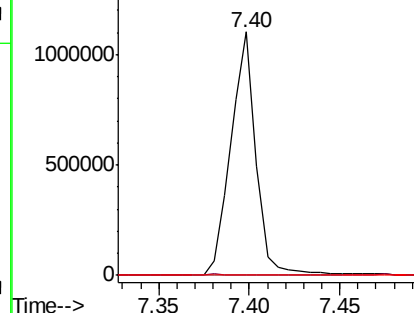
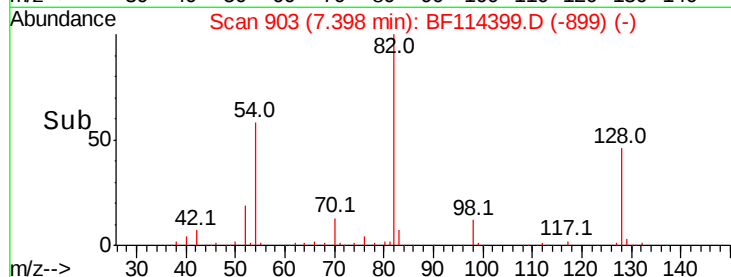
138 0.0 14.8 22.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 15.897 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

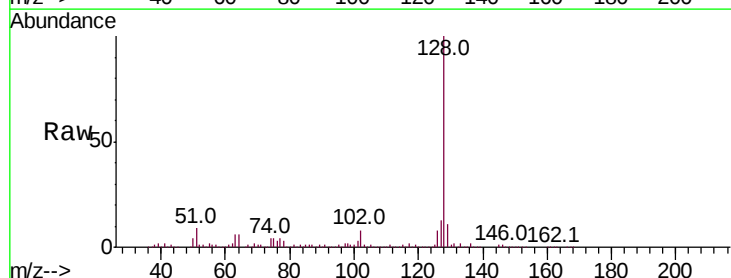
Tgt Ion:128 Resp: 691017

Ion Ratio Lower Upper

128 100

129 10.9 9.6 14.4

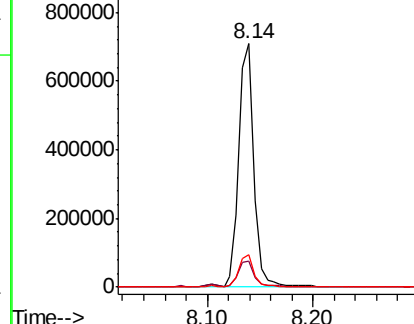
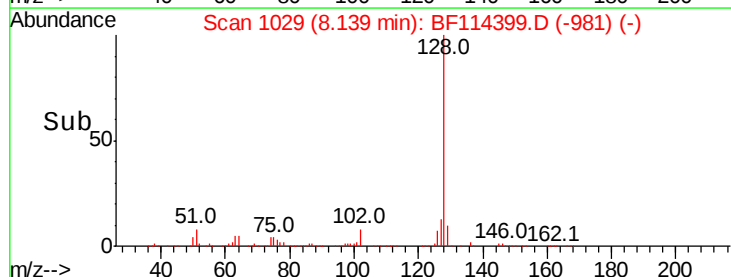
127 13.1 11.3 16.9

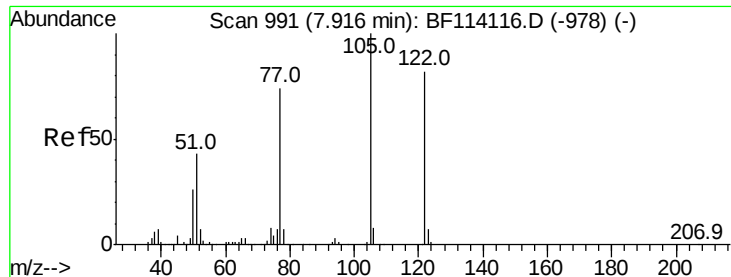


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 7.273 ng

RT: 7.93 min Scan# 993

Delta R.T. 0.01 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

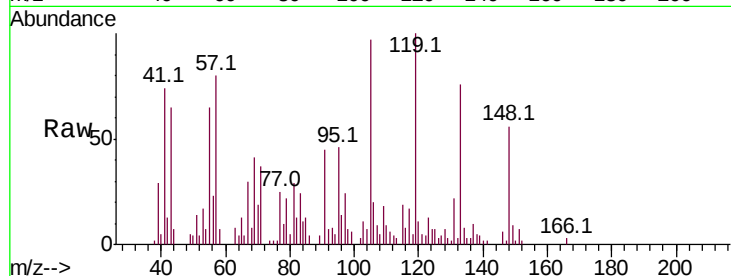
Tot Ion:122 Resp: 2716

Ion Ratio Lower Upper

122 100

105 2286.5 99.9 139.9#

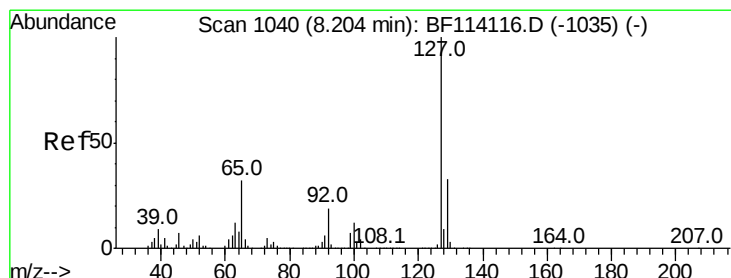
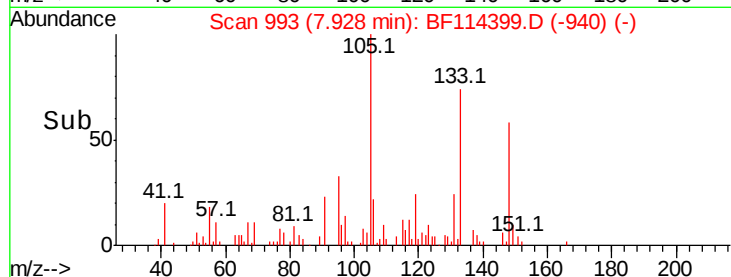
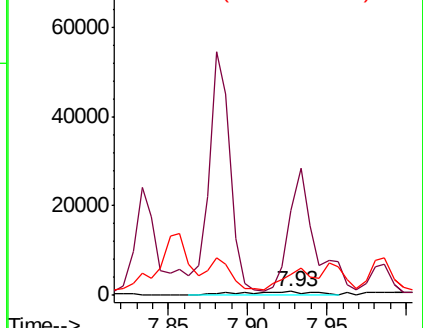
77 581.2 69.4 109.4#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#33

4-Chloroaniline

Concen: 4.624 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.06 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Tgt Ion:127 Resp: 91595

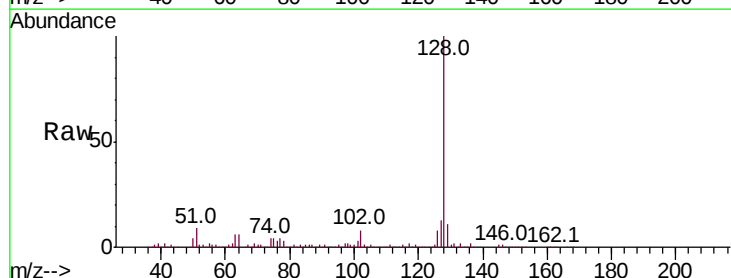
Ion Ratio Lower Upper

127 100

129 83.5 26.7 40.1#

65 0.0 25.4 38.0#

92 0.9 15.4 23.2#

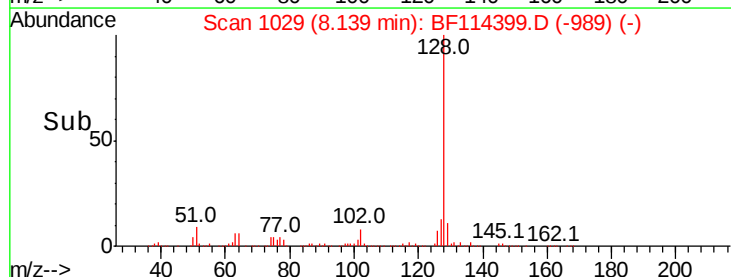
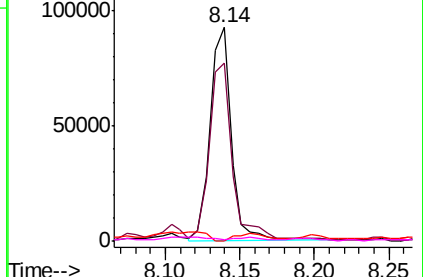


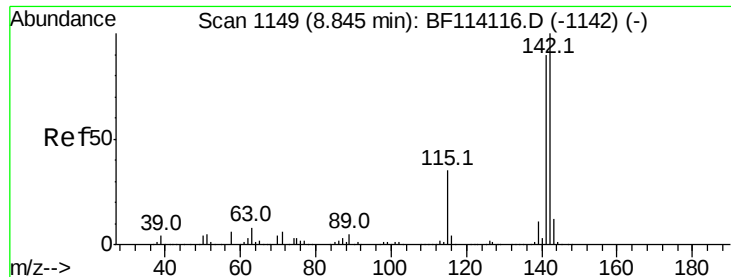
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

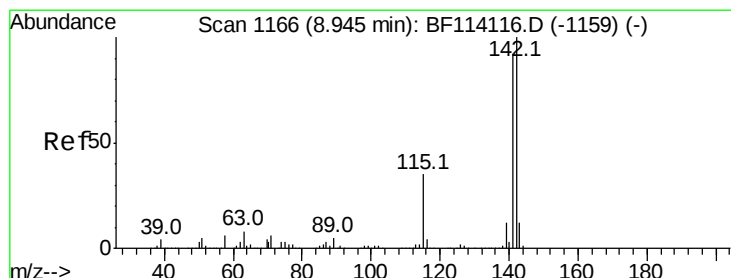
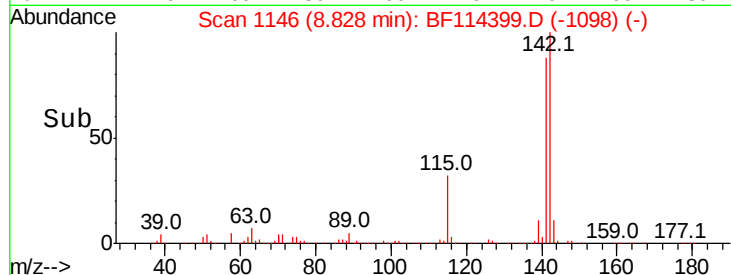
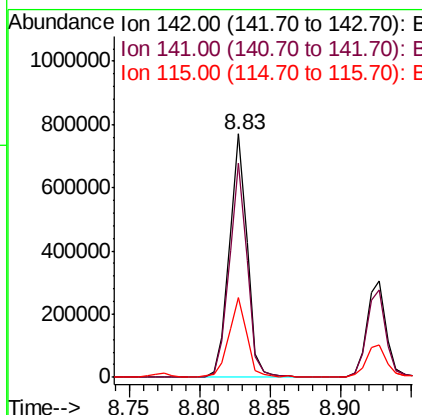
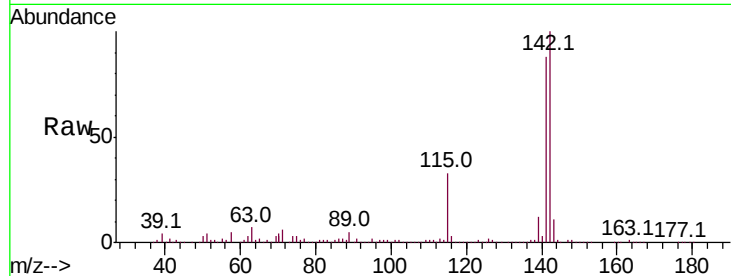




#37
 2-Methylnaphthalene
 Concen: 24.274 ng
 RT: 8.83 min Scan# 1146
 Delta R.T. -0.02 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

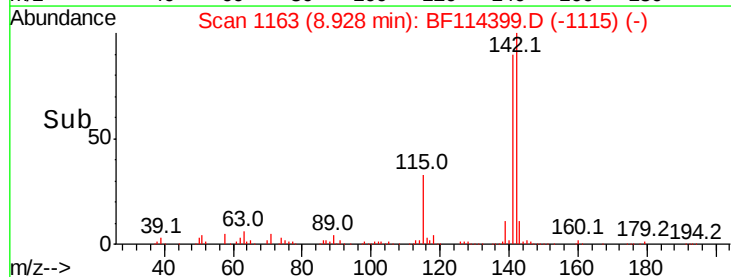
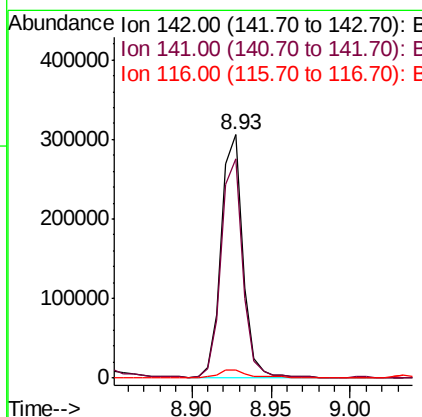
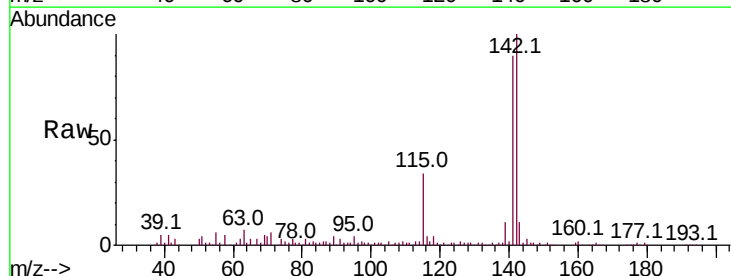
Instrument :
 BNA_F
 ClientSampled :

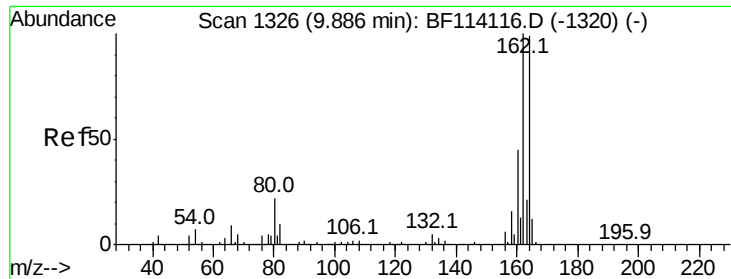
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.1	72.1	108.1
115	32.5	28.0	42.0



#38
 1-Methylnaphthalene
 Concen: 11.016 ng
 RT: 8.93 min Scan# 1163
 Delta R.T. -0.02 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.1	73.4	110.0
116	3.6	3.1	4.7

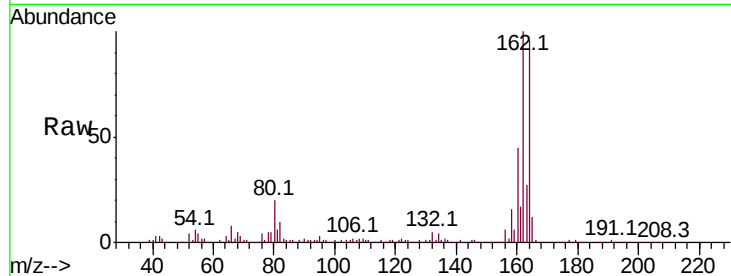




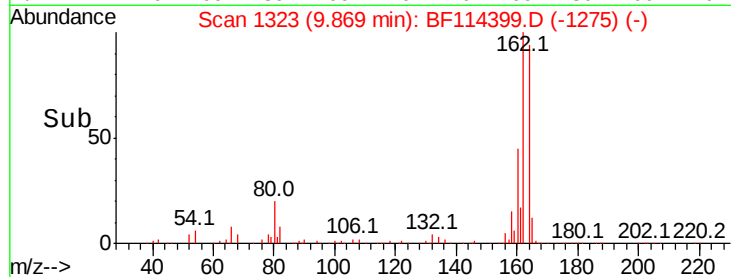
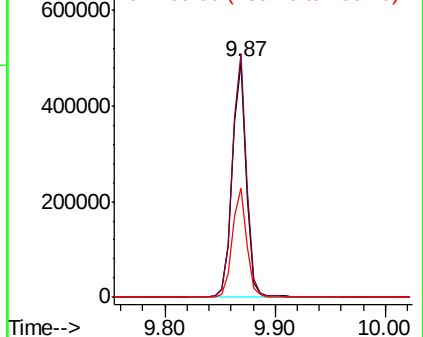
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.7	80.6	120.8
160	46.7	36.5	54.7

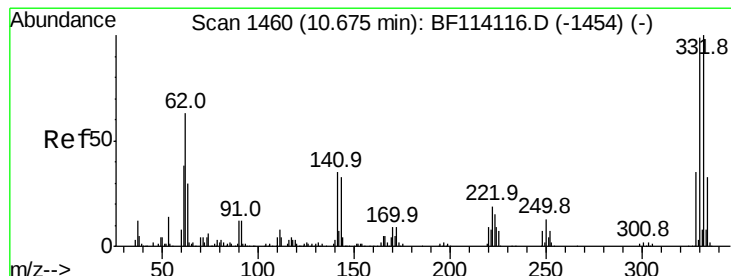


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

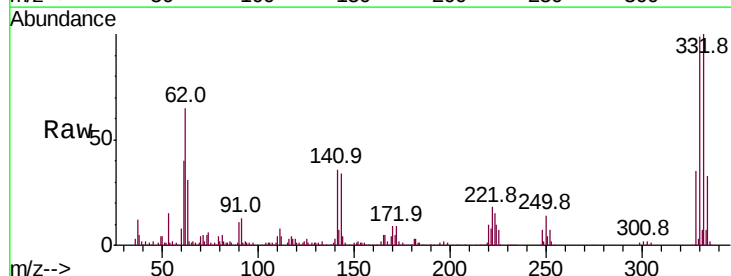
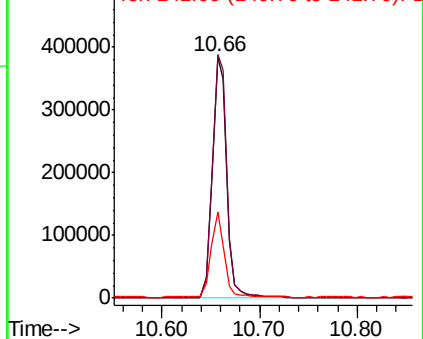


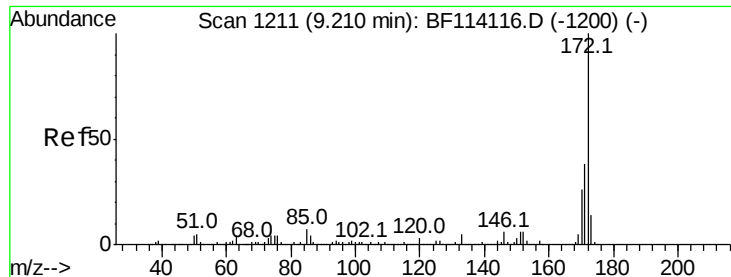
#42
2,4,6-Tribromophenol
Concen: 86.206 ng
RT: 10.66 min Scan# 1457
Delta R.T. -0.02 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.2	81.4	122.2
141	32.5	26.6	40.0



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

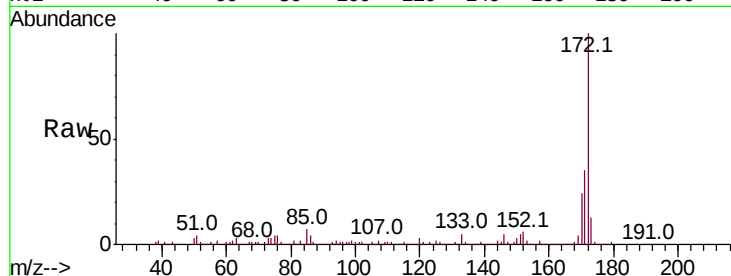




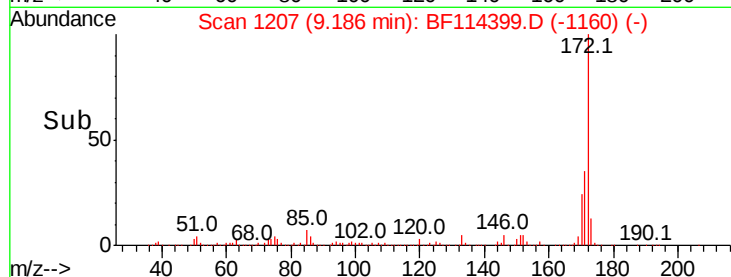
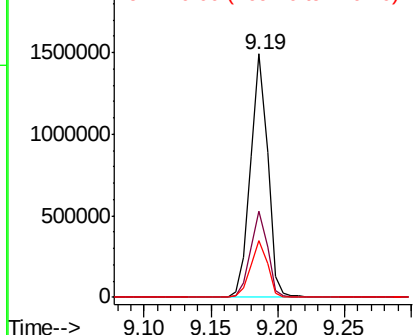
#45
2-Fluorobiphenyl
Concen: 45.349 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.02 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1316595
Ion Ratio Lower Upper
172 100
171 35.5 30.7 46.1
170 23.5 20.5 30.7

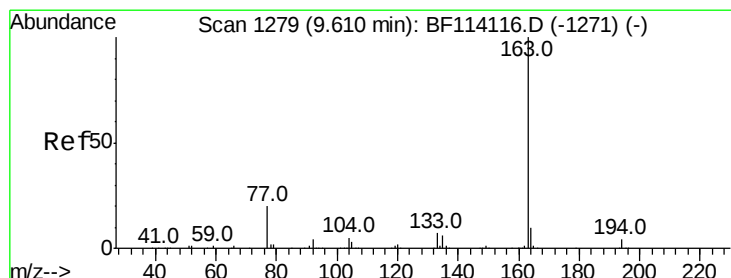


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

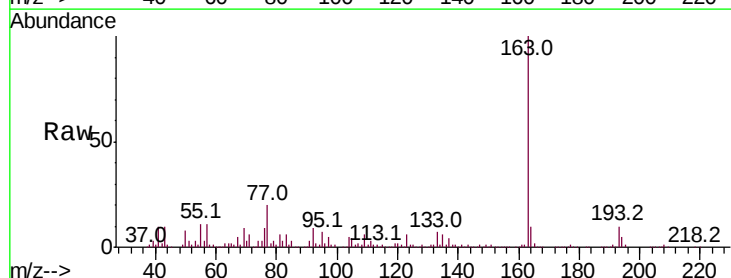
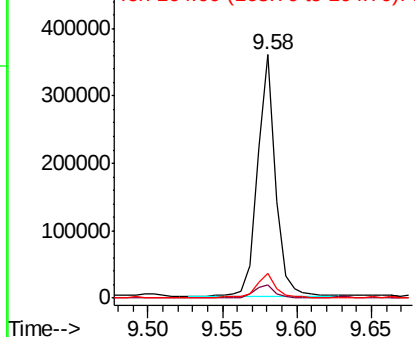


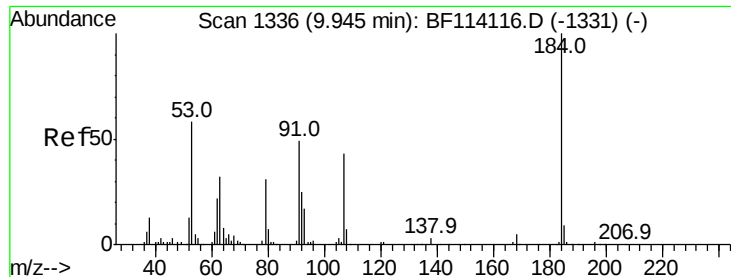
#50
Dimethylphthalate
Concen: 9.178 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.03 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Tgt Ion:163 Resp: 295880
Ion Ratio Lower Upper
163 100
194 5.2 3.4 5.0#
164 10.0 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

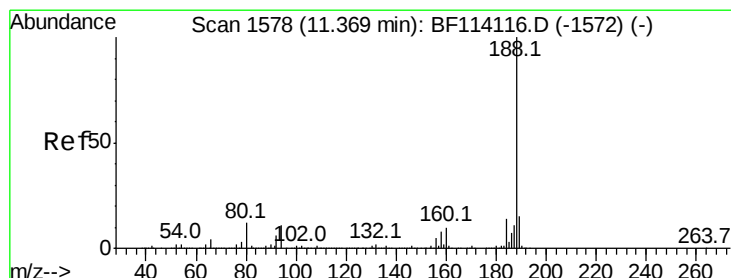
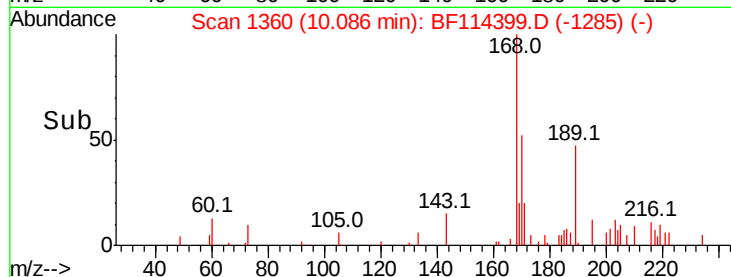
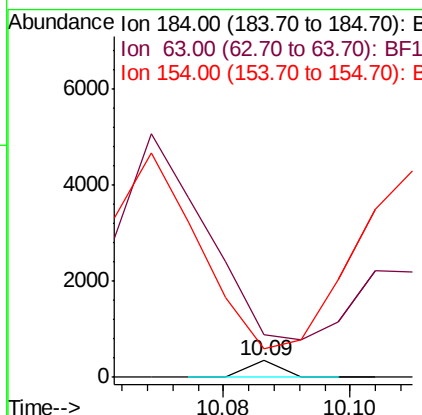
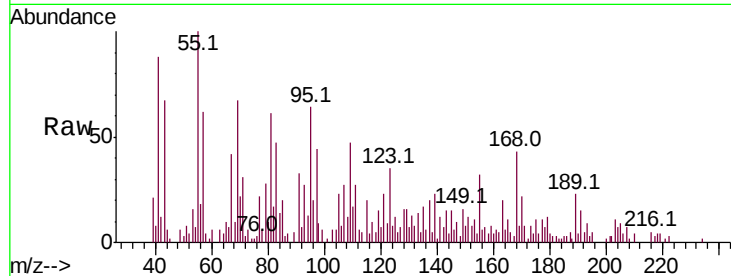




#54
 2,4-Dinitrophenol
 Concen: 6.777 ng
 RT: 10.09 min Scan# 1360
 Delta R.T. 0.14 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

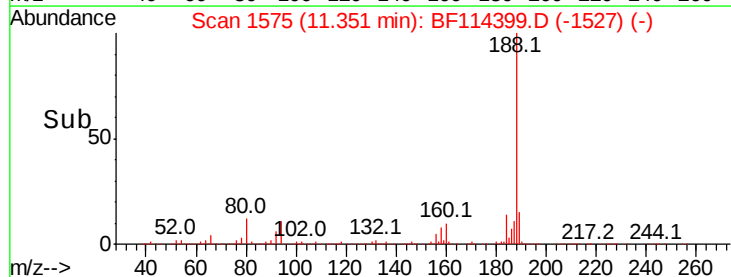
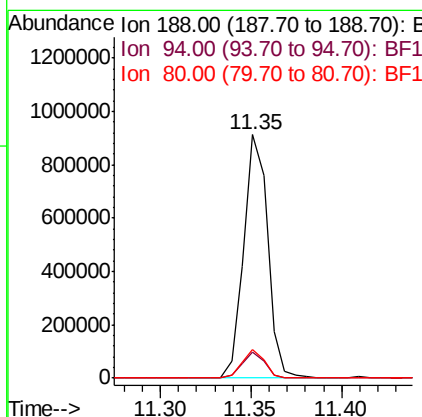
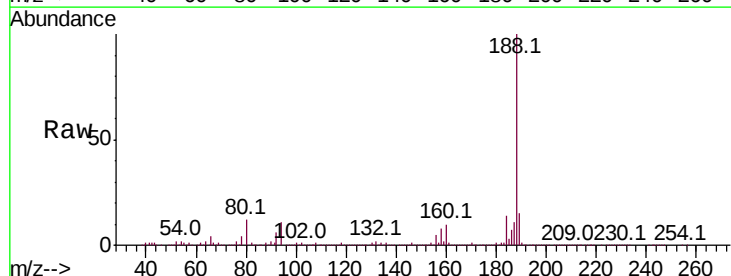
Instrument :
 BNA_F
 ClientSampleId :

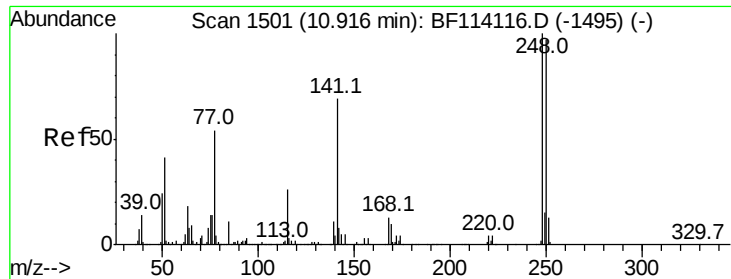
Tot Ion:184 Resp: 124
 Ion Ratio Lower Upper
 184 100
 63 256.6 55.6 83.4#
 154 168.3 46.0 69.0#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

Tgt Ion:188 Resp: 837177
 Ion Ratio Lower Upper
 188 100
 94 10.7 8.4 12.6
 80 11.8 9.2 13.8

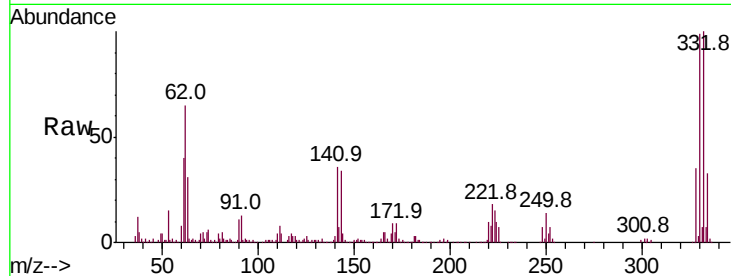




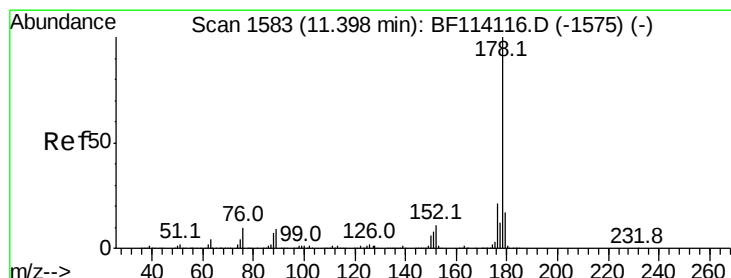
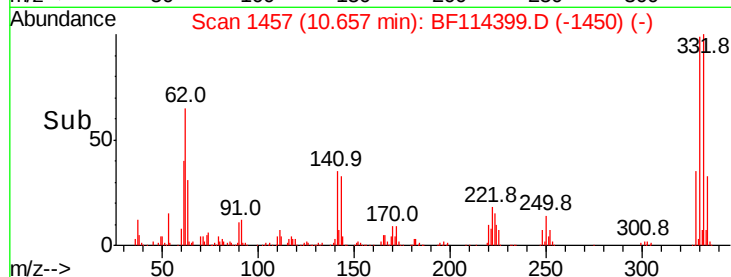
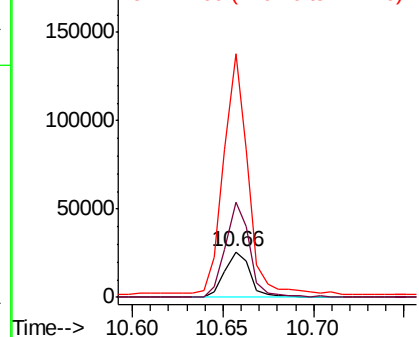
#67
 4-Bromophenyl-phenylether
 Concen: 2.757 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. -0.26 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 25411
 Ion Ratio Lower Upper
 248 100
 250 209.0 77.4 116.2#
 141 537.9 55.6 83.4#

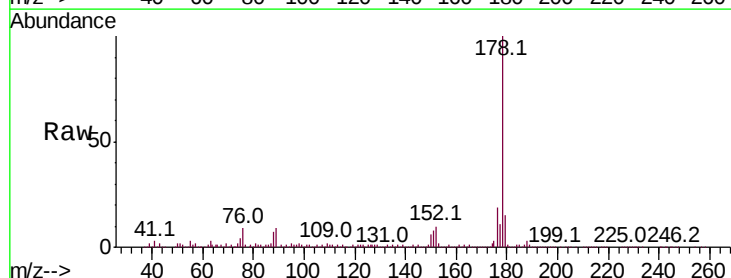


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

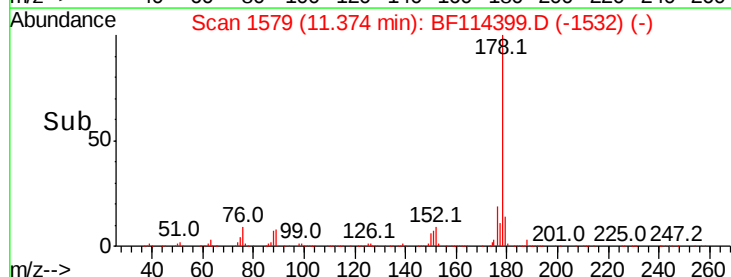
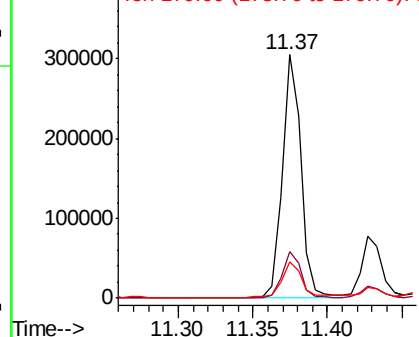


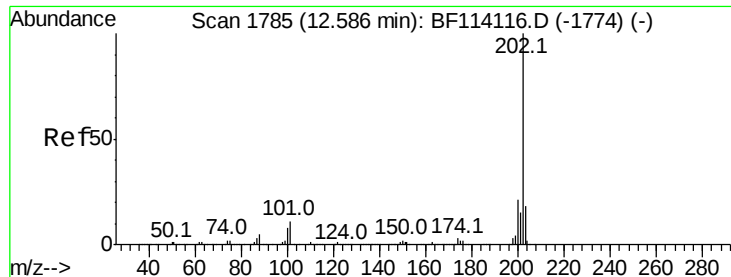
#71
 Phenanthrene
 Concen: 6.497 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.02 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

Tgt Ion:178 Resp: 264612
 Ion Ratio Lower Upper
 178 100
 176 19.0 16.4 24.6
 179 14.9 13.2 19.8



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





#75

Fluoranthene

Concen: 12.126 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.02 min

Lab File: BF114399.D

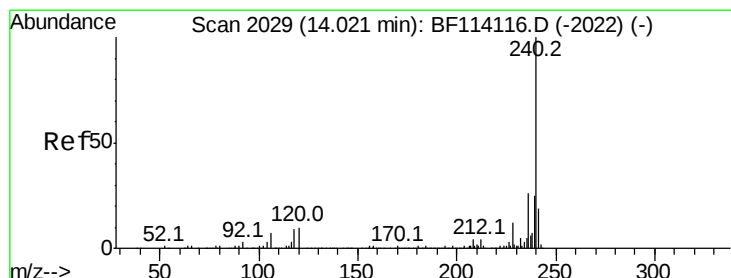
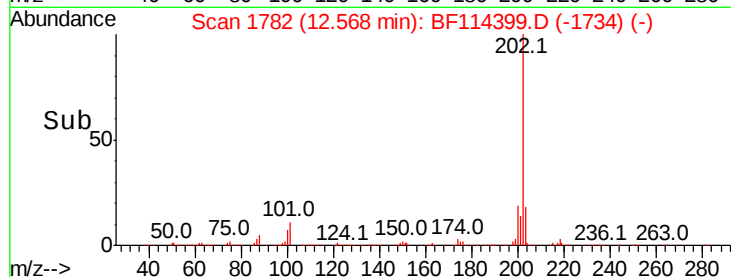
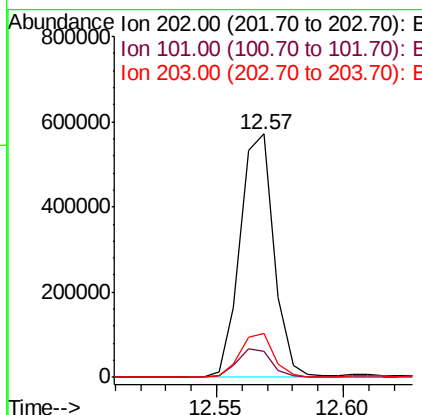
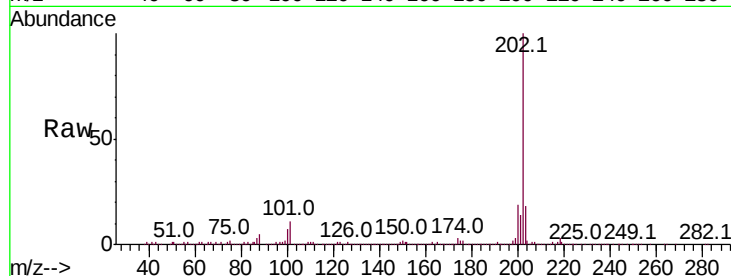
Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	531871
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.0
203	18.1	0.0	38.4



#76

Chrysene-d12

Concen: 20.000 ng

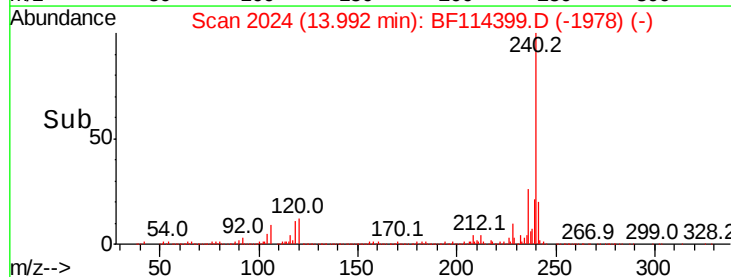
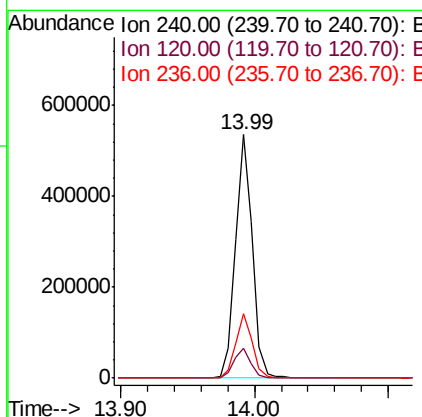
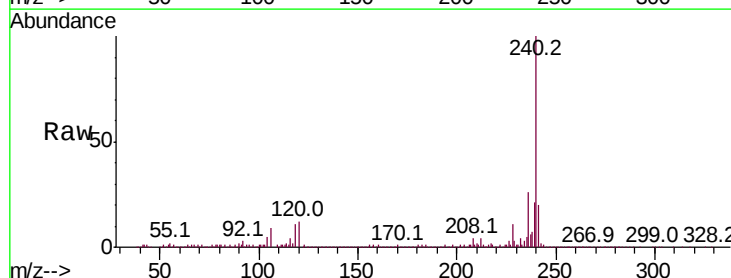
RT: 13.99 min Scan# 2024

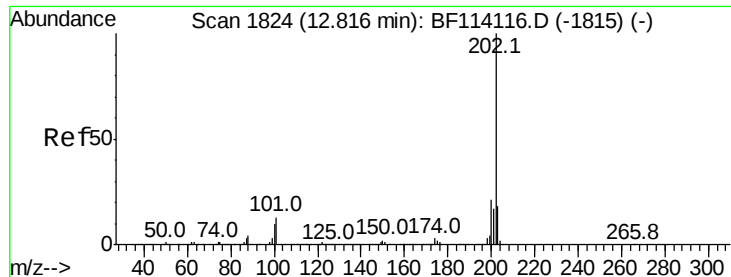
Delta R.T. -0.03 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Tgt Ion:	240	Resp:	473594
Ion	Ratio	Lower	Upper
240	100		
120	12.3	8.3	12.5
236	26.4	20.8	31.2





#78

Pvrene

Concen: 12.352 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.02 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

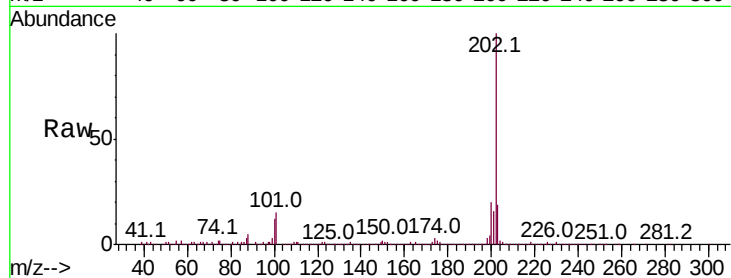
Tot Ion:202 Resp: 470588

Ion Ratio Lower Upper

202 100

200 19.6 16.9 25.3

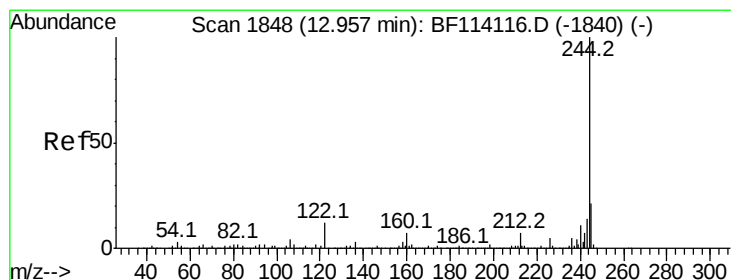
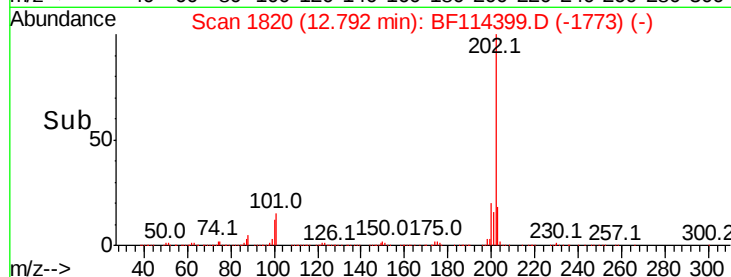
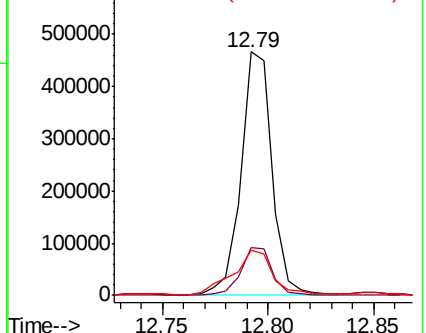
203 18.5 14.5 21.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 49.588 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.02 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

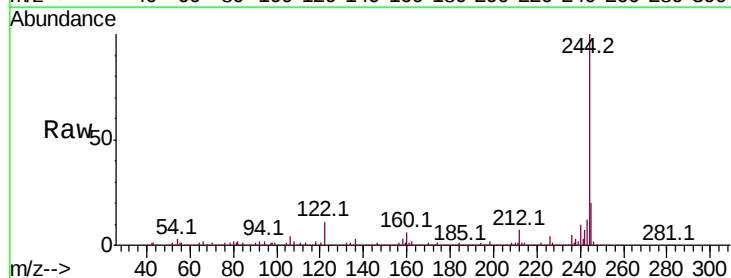
Tgt Ion:244 Resp: 1139240

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.6

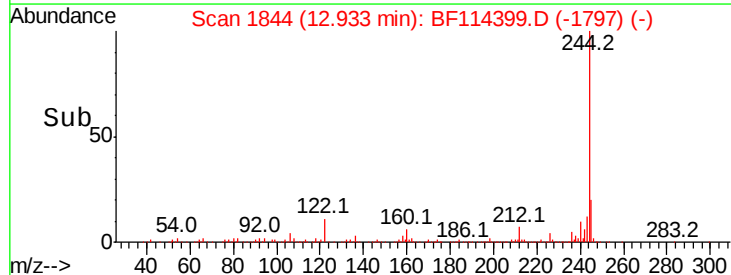
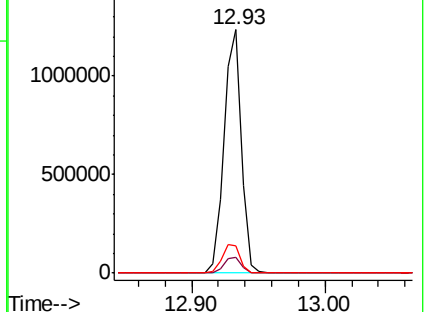
122 11.1 9.4 14.2

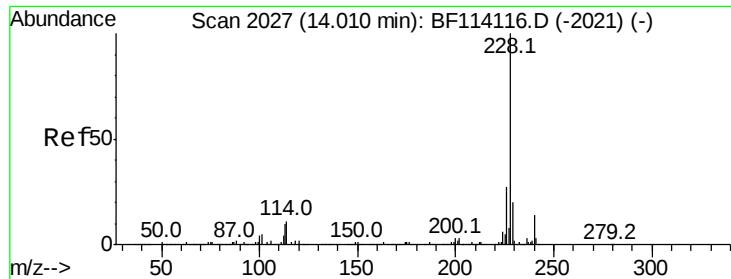


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

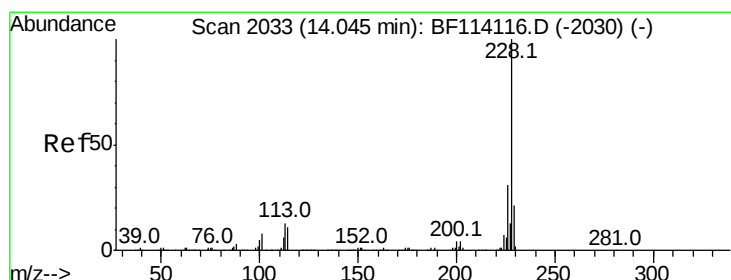
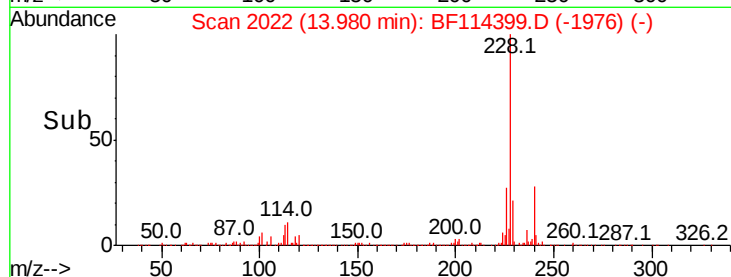
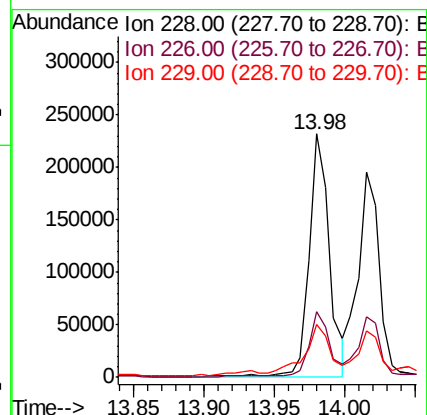
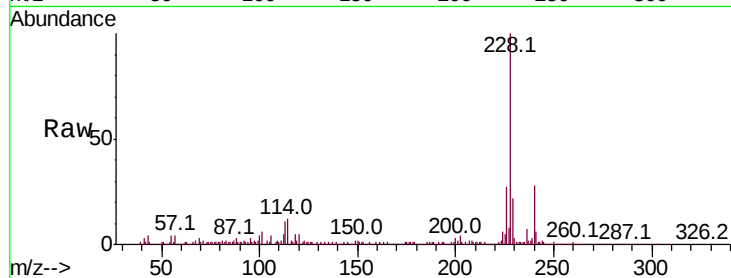




#81
Benzo(a)anthracene
Concen: 7.458 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.03 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

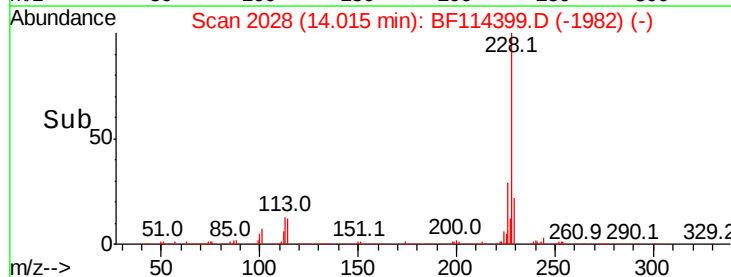
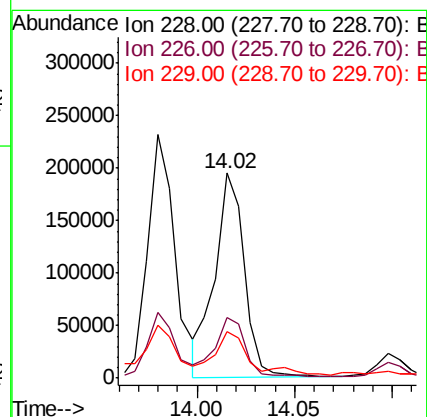
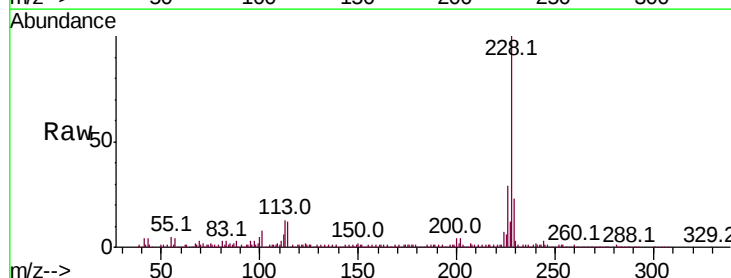
Instrument :
BNA_F
ClientSampleId :

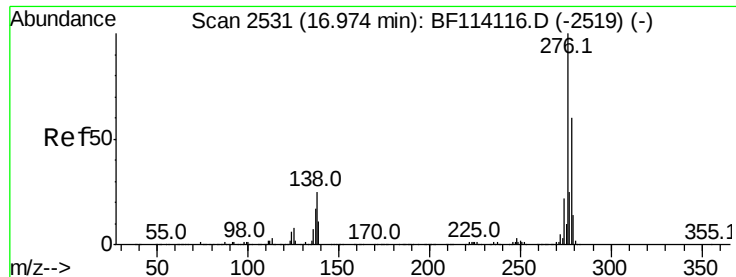
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.2
229	21.6	16.4	24.6



#83
Chrysene
Concen: 6.867 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.03 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	25.0	37.6
229	22.8	17.0	25.6

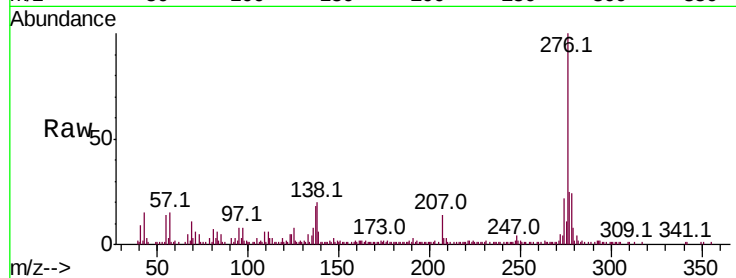




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.080 ng
 RT: 16.93 min Scan# 2523
 Delta R.T. -0.05 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.4	20.2	30.2
277	24.2	20.0	30.0

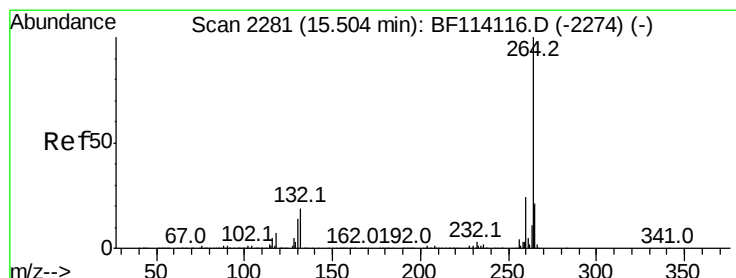
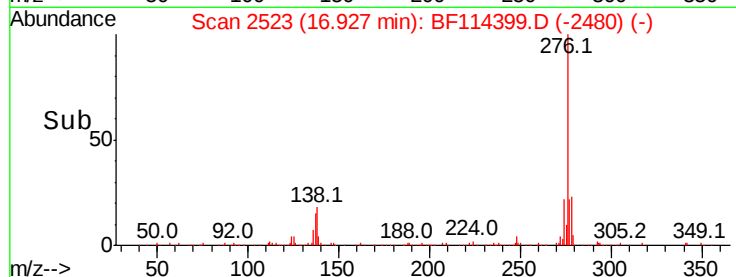
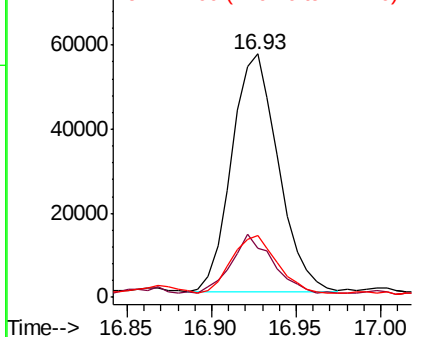


Abundance

Ion 276.00 (275.70 to 276.70): E

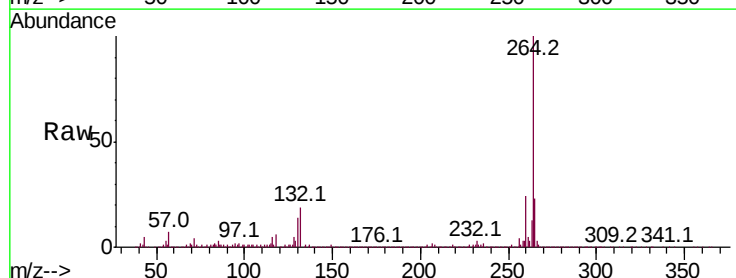
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2273
 Delta R.T. -0.05 min
 Lab File: BF114399.D
 Acq: 18 May 2019 18:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.4	29.0
265	22.6	16.9	25.3

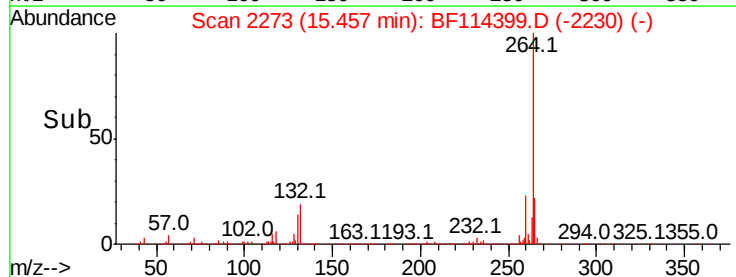
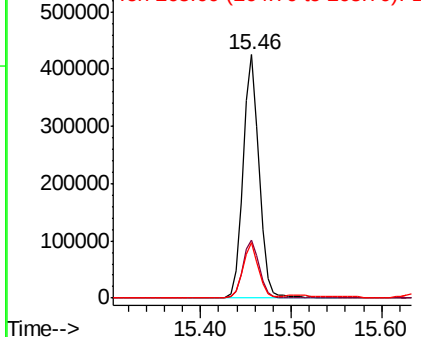


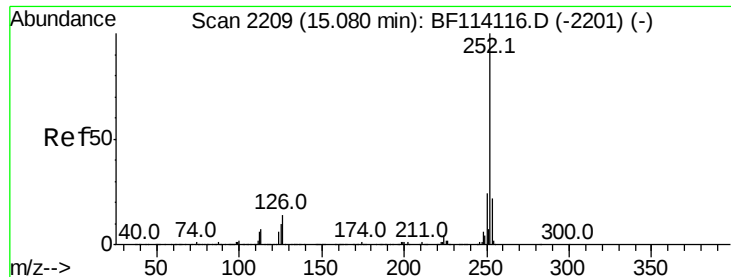
Abundance

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

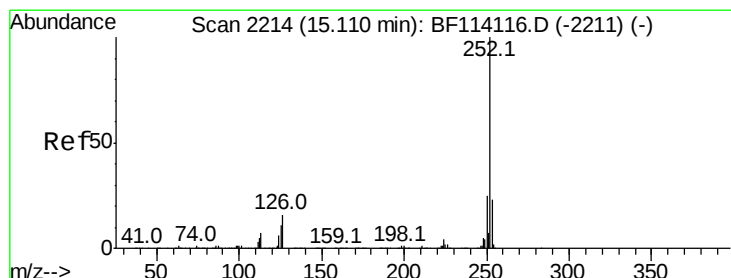
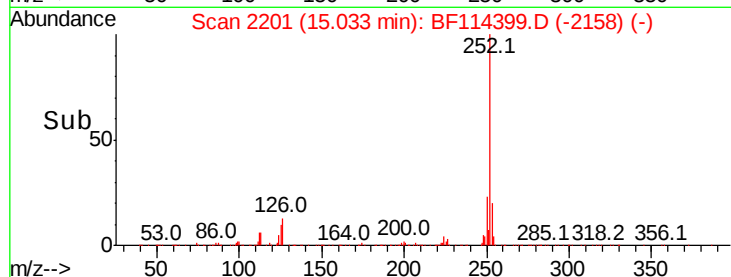
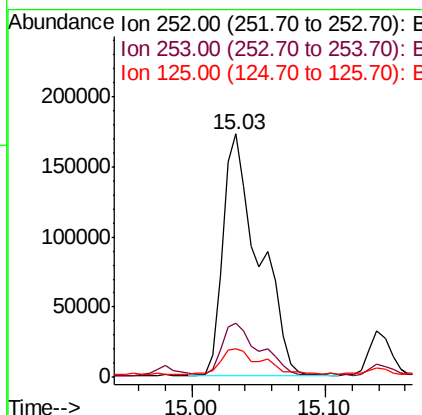
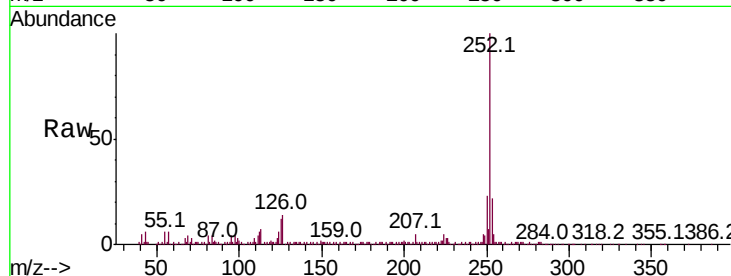




#88
Benzo(b)fluoranthene
Concen: 9.651 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.05 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

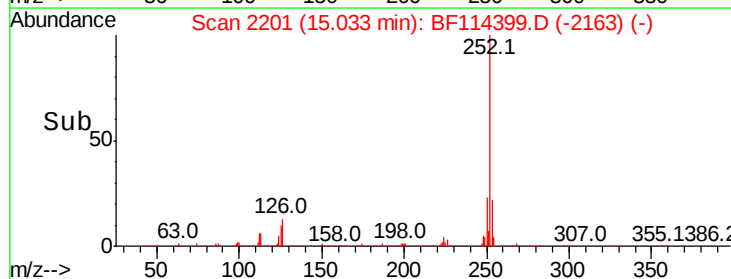
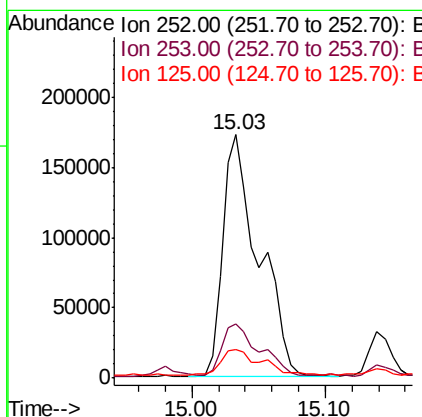
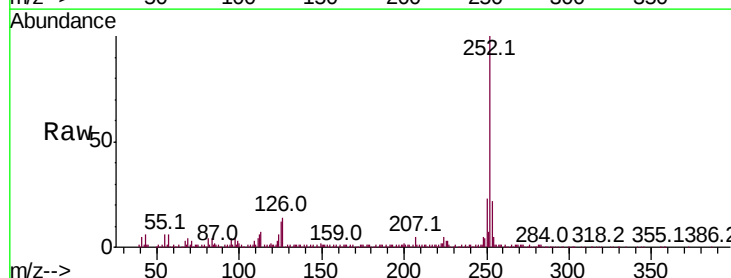
Instrument :
BNA_F
ClientSampleId :

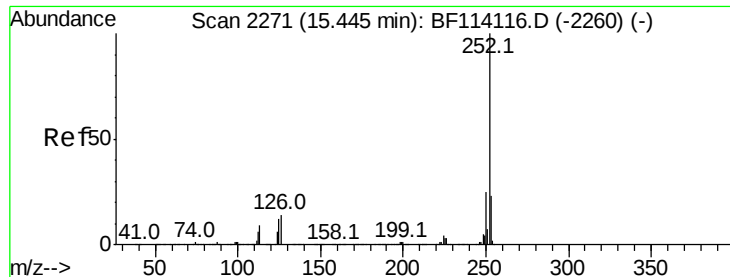
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.8	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 10.506 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.08 min
Lab File: BF114399.D
Acq: 18 May 2019 18:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.2
125	11.8	8.6	13.0





#90

Benzo(a)pyrene

Concen: 6.330 ng

RT: 15.40 min Scan# 2263

Delta R.T. -0.05 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

Instrument :

BNA_F

ClientSampleId :

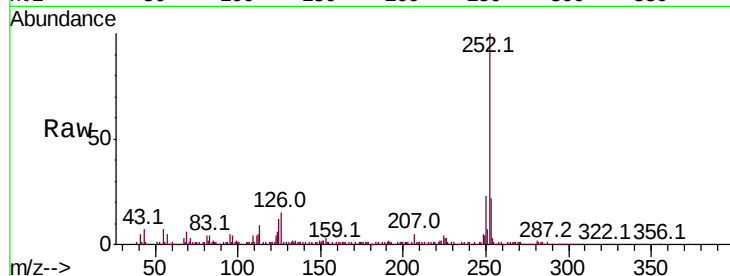
Tot Ion:252 Resp: 186540

Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

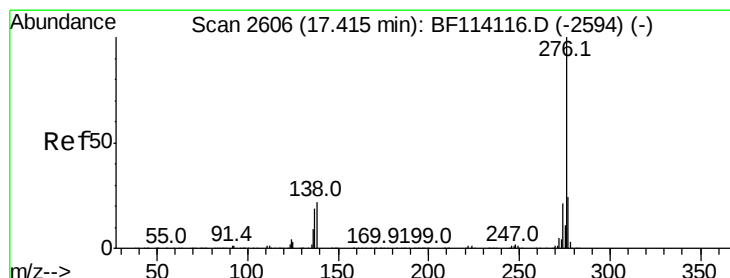
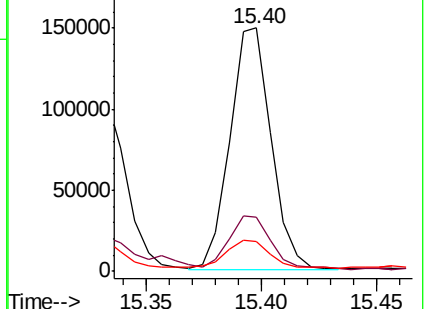
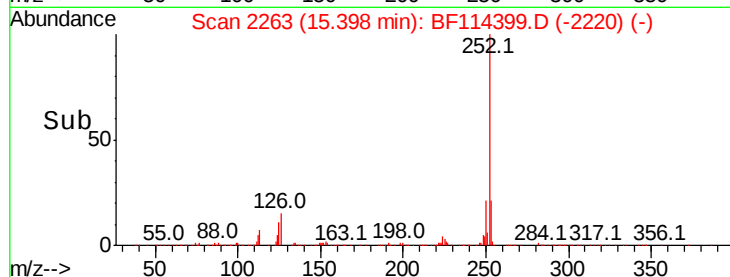
125 12.3 9.5 14.3



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



#92

Benzo(g,h,i)perylene

Concen: 4.114 ng

RT: 17.37 min Scan# 2598

Delta R.T. -0.05 min

Lab File: BF114399.D

Acq: 18 May 2019 18:50

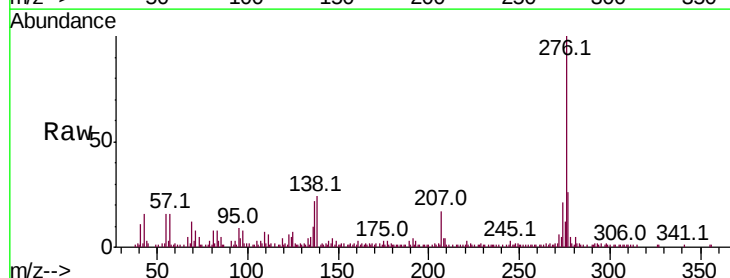
Tgt Ion:276 Resp: 100976

Ion Ratio Lower Upper

276 100

277 25.8 19.0 28.4

138 24.1 17.8 26.6



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

