

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
 Data File : BF116994.D
 Acq On : 12 Sep 2019 16:15
 Operator : HP/JU
 Sample : K4852-19
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 13 07:45:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 12 08:24:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	64239	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	250306	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	119209	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	167081	20.00	ng	0.00
76) Chrysene-d12	13.97	240	123391	20.00	ng	0.00
87) Perylene-d12	15.42	264	145114	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	352442	88.88	ng	0.00
7) Phenol-d6	6.46	99	475601	91.34	ng	0.00
23) Nitrobenzene-d5	7.38	82	297156	67.77	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	85828	107.70	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	493670	69.86	ng	0.00
79) Terphenyl-d14	12.92	244	329711	49.43	ng	0.00

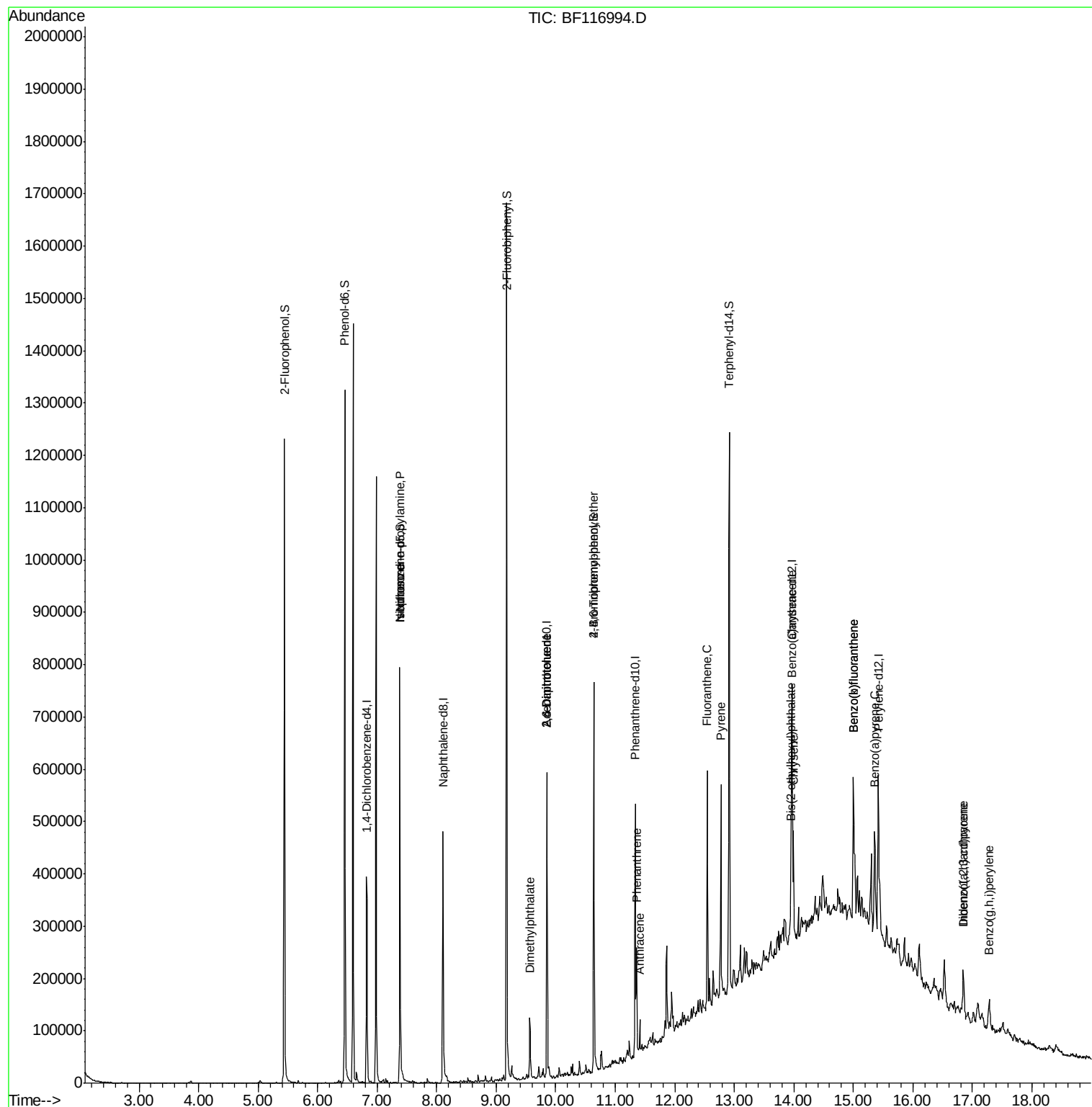
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.38	70	38956	11.363	ng	# 77
25) Isophorone	7.38	82	297154	33.445	ng	# 66
50) Dimethylphthalate	9.56	163	43465	5.281	ng	99
51) 2,6-Dinitrotoluene	9.85	165	15657	9.971	ng	# 28
57) 2,4-Dinitrotoluene	9.85	165	15657	8.155	ng	# 19
67) 4-Bromophenyl-phenylether	10.64	248	5442	3.206	ng	# 1
71) Phenanthrene	11.36	178	73163	7.866	ng	98
72) Anthracene	11.41	178	24630	2.631	ng	100
75) Fluoranthene	12.55	202	169414	18.535	ng	99
78) Pyrene	12.77	202	157815	14.388	ng	99
81) Benzo(a)anthracene	13.96	228	94238	12.067	ng	97
83) Chrysene	13.99	228	83548	10.384	ng	97
84) Bis(2-ethylhexyl)phthalate	13.95	149	26838	4.076	ng	# 94
86) Indeno(1,2,3-cd)pyrene	16.84	276	49559	7.669	ng	95
88) Benzo(b)fluoranthene	15.00	252	167071	19.043	ng	# 95
89) Benzo(k)fluoranthene	15.00	252	167071	20.886	ng	# 96
90) Benzo(a)pyrene	15.36	252	91477	11.985	ng	99
91) Dibenzo(a,h)anthracene	16.86	278	14645	2.192	ng	# 91
92) Benzo(a,h,i)perylene	17.28	276	48534	7.123	ng	98

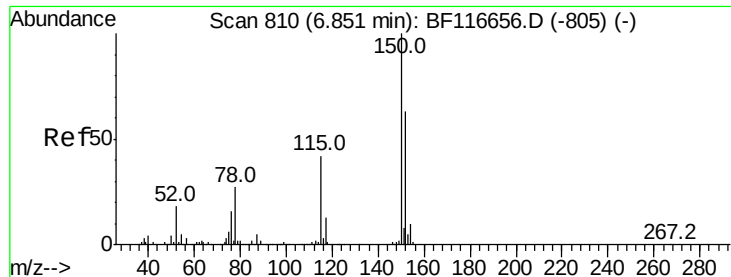
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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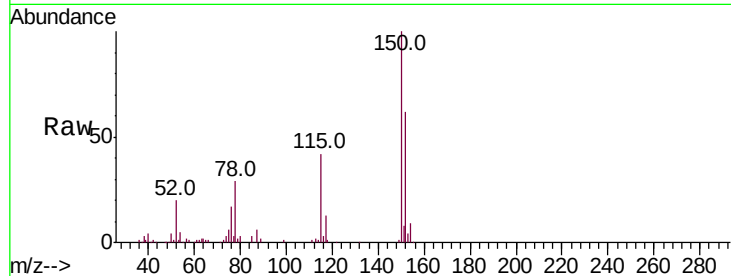


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF116994.D
Acq: 12 Sep 2019 16:15

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.7	126.2	189.2
115	67.0	50.2	75.2

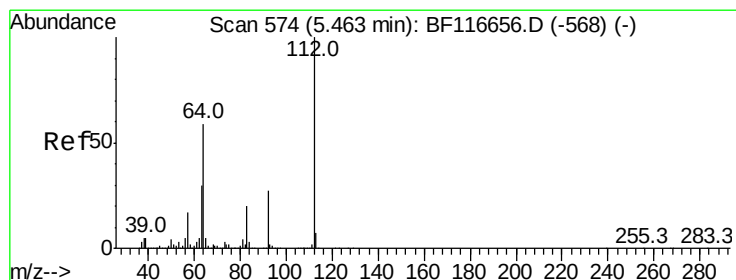
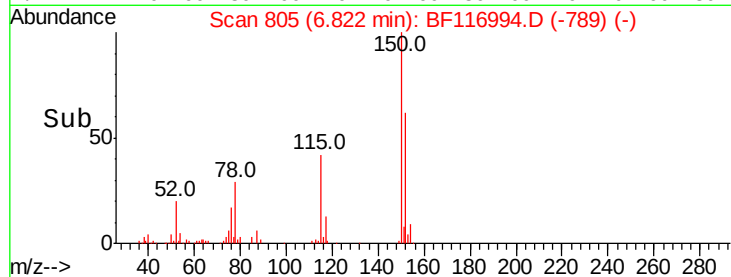
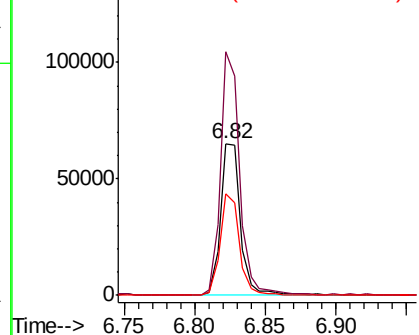


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

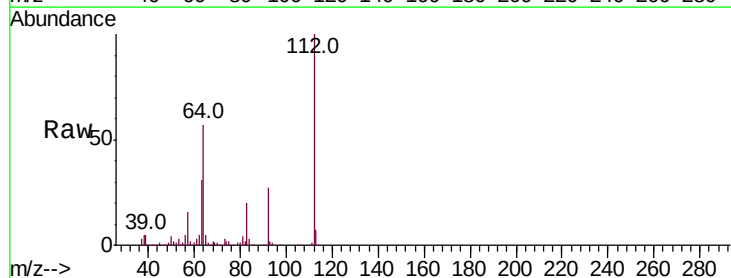
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 88.883 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF116994.D
Acq: 12 Sep 2019 16:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.0	47.1	70.7
63	30.6	25.4	38.0

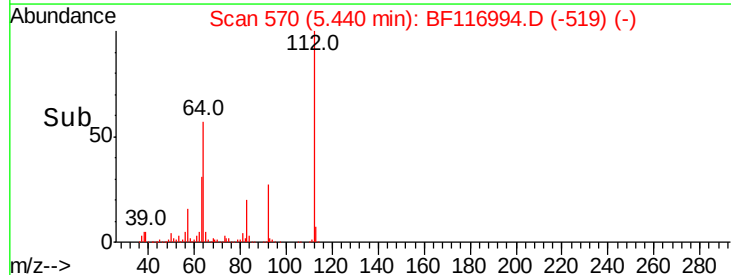
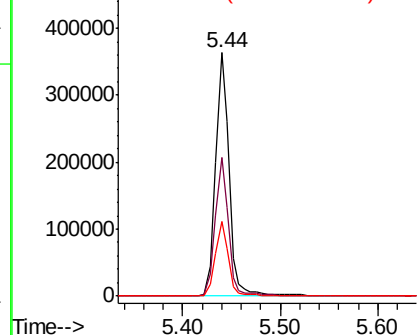


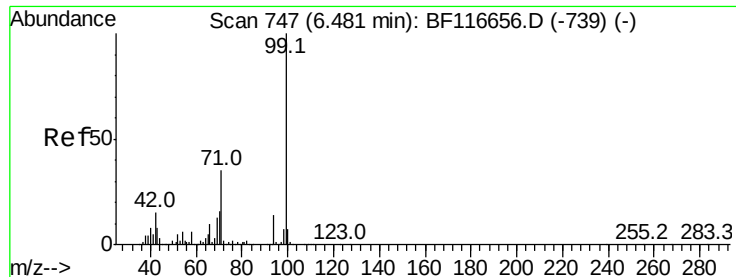
Abundance

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: 91.343 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampleId :

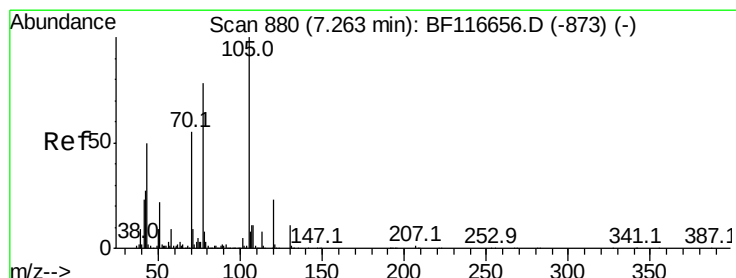
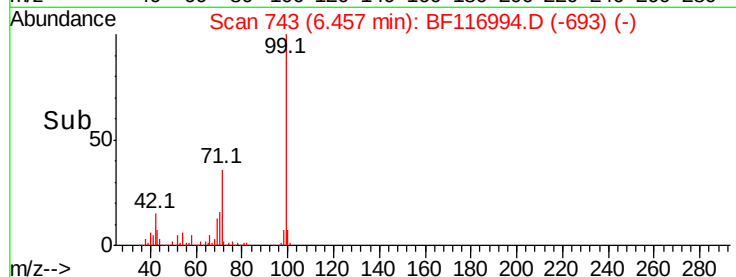
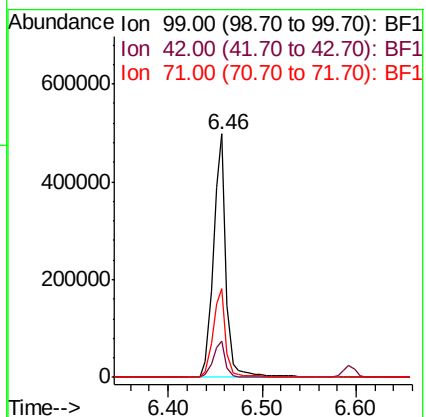
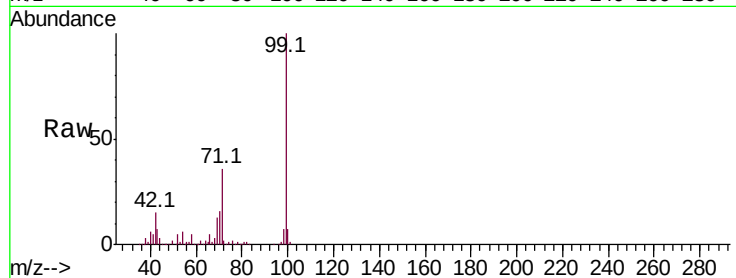
Tot Ion: 99 Resp: 475601

Ion Ratio Lower Upper

99 100

42 15.1 12.0 18.0

71 36.3 29.7 44.5



#19

n-Nitroso-di-n-propylamine

Concen: 11.363 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.14 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Tgt Ion: 70 Resp: 38956

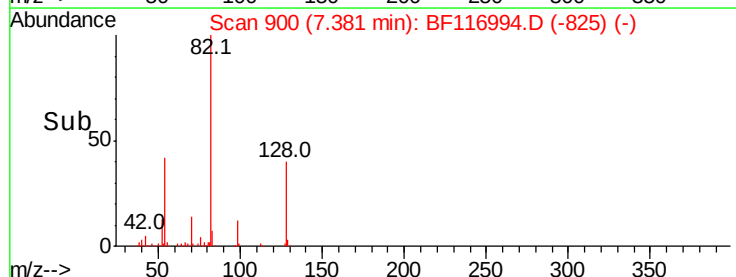
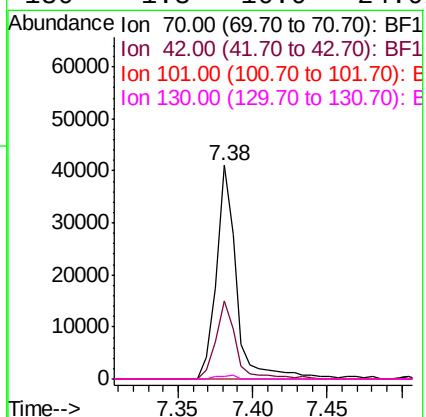
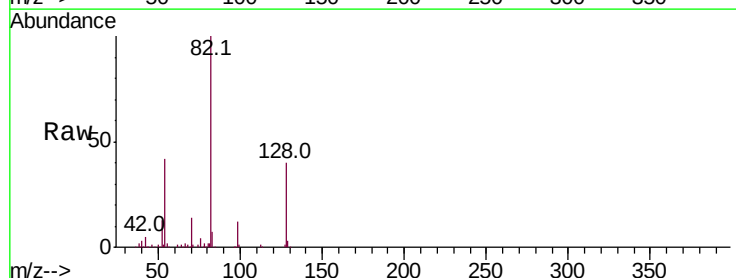
Ion Ratio Lower Upper

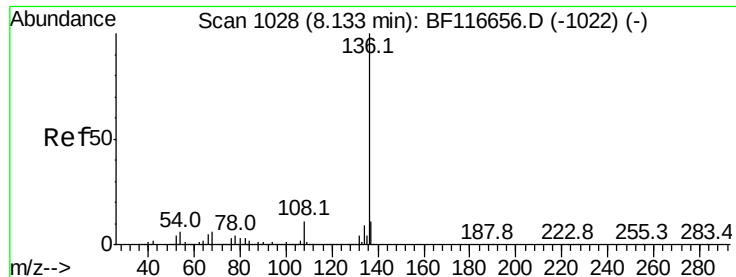
70 100

42 36.8 37.0 55.4#

101 0.0 7.4 11.2#

130 1.3 16.0 24.0#

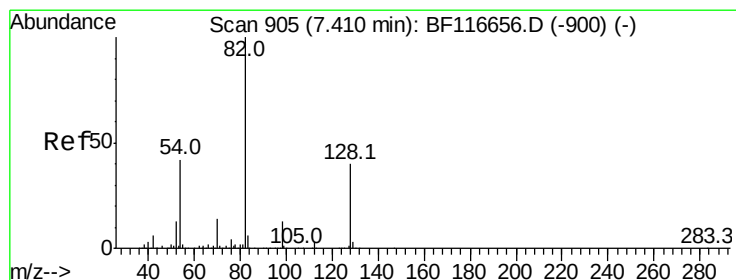
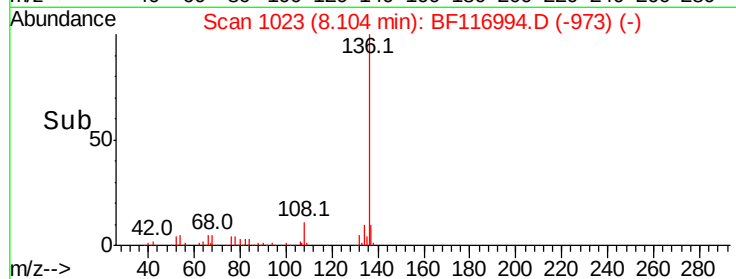
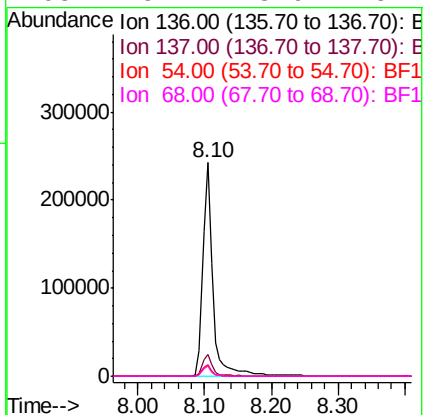
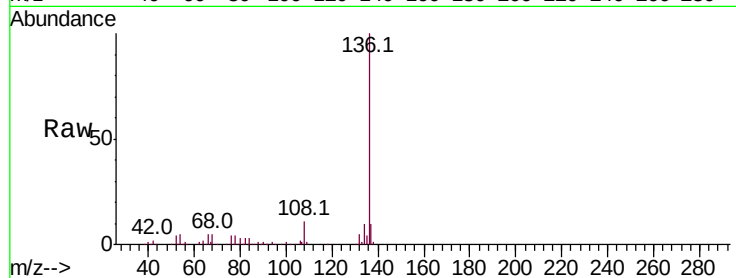




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BF116994.D
Acq: 12 Sep 2019 16:15

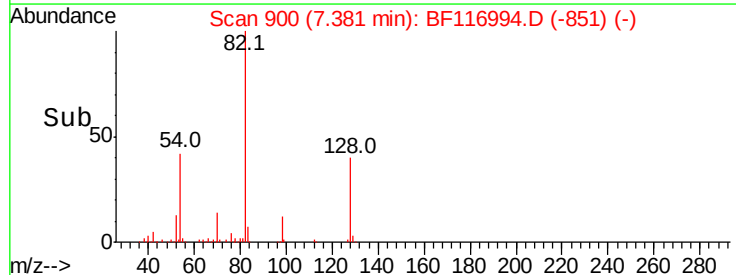
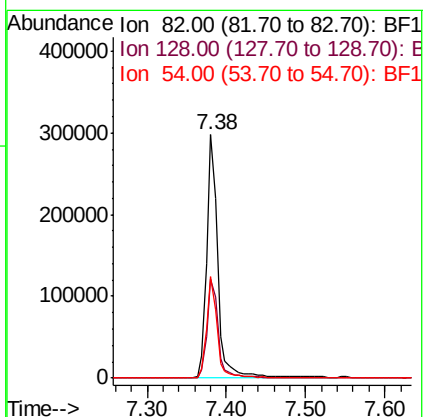
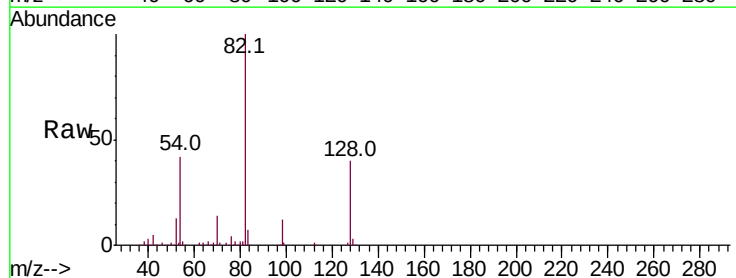
Instrument :
BNA_F
ClientSampleId :

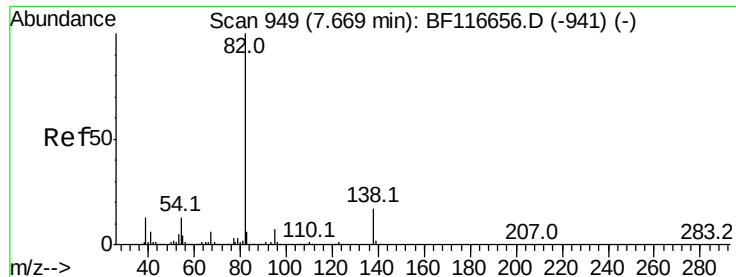
Tot Ion:136	Resp:	250306
Ion Ratio	Lower	Upper
136 100		
137 10.5	8.5	12.7
54 5.3	3.8	5.8
68 5.1	3.6	5.4



#23
Nitrobenzene-d5
Concen: 67.772 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF116994.D
Acq: 12 Sep 2019 16:15

Tgt Ion: 82	Resp:	297156
Ion Ratio	Lower	Upper
82 100		
128 40.4	35.0	52.4
54 41.6	32.6	48.8





#25

Isophorone

Concen: 33.445 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.26 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampleId :

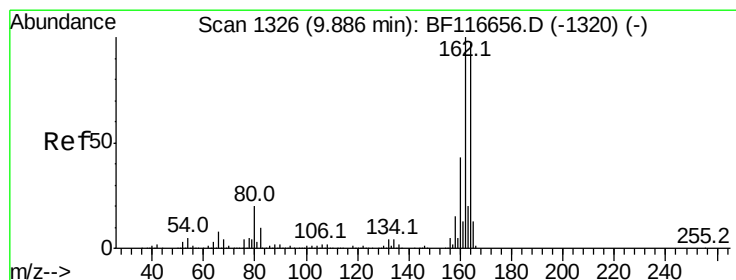
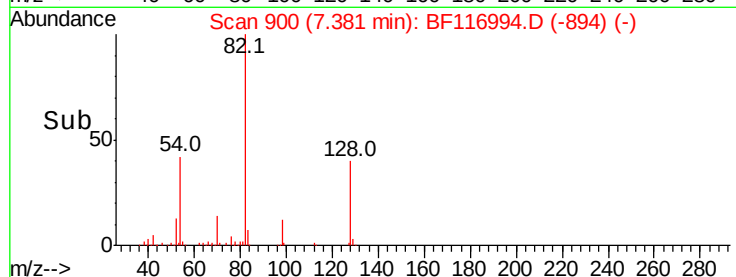
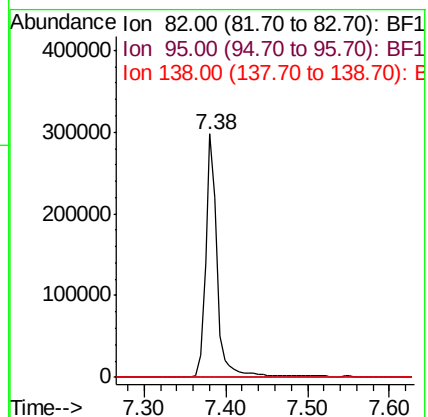
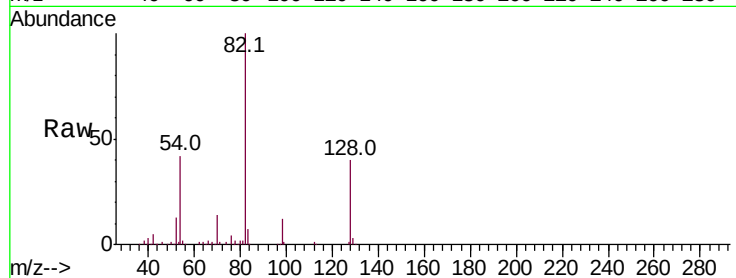
Tot Ion: 82 Resp: 297154

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

138 0.0 13.4 20.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

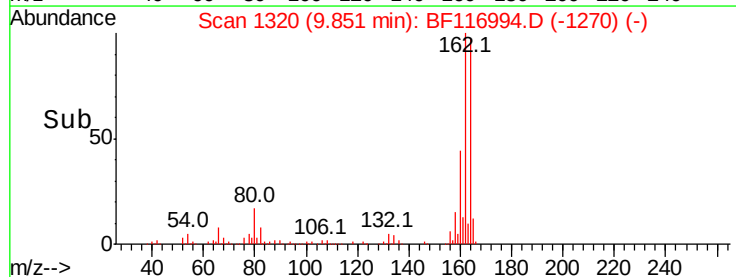
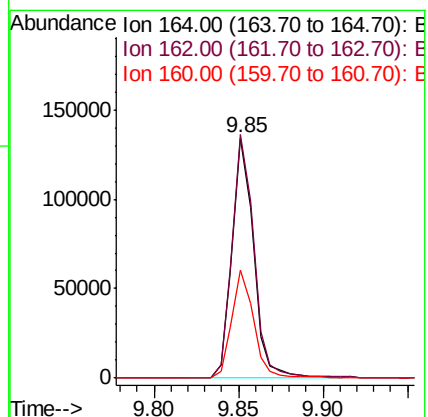
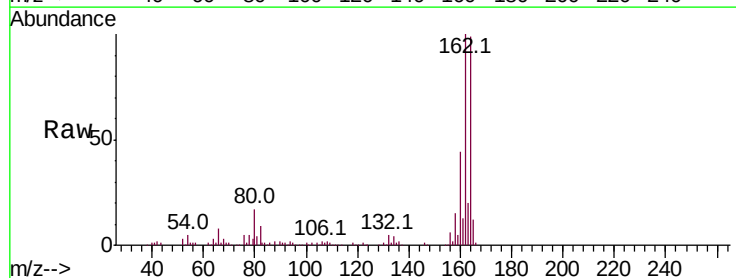
Tgt Ion: 164 Resp: 119209

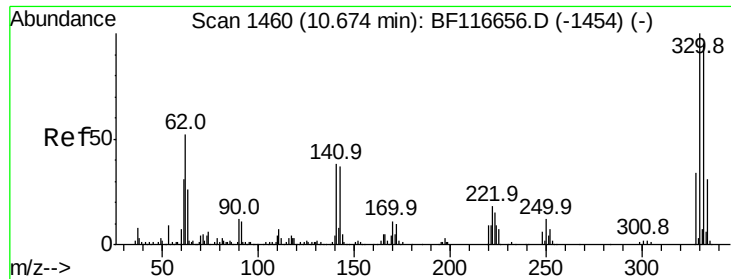
Ion Ratio Lower Upper

164 100

162 101.3 81.8 122.6

160 44.8 35.7 53.5





#42

2,4,6-Tribromophenol

Concen: 107.697 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampled :

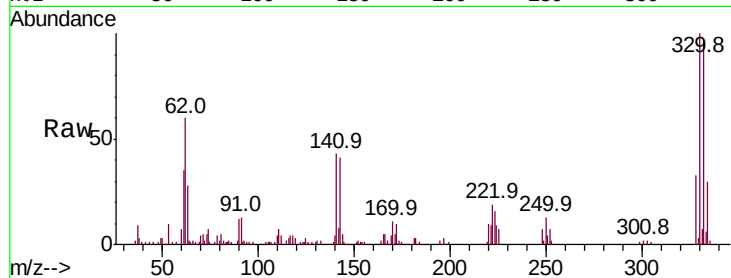
Tot Ion:330 Resp: 85828

Ion Ratio Lower Upper

330 100

332 95.4 75.9 113.9

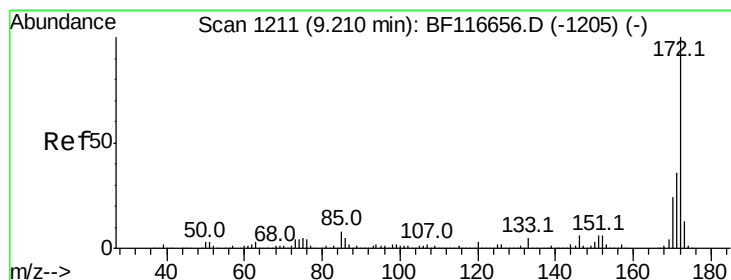
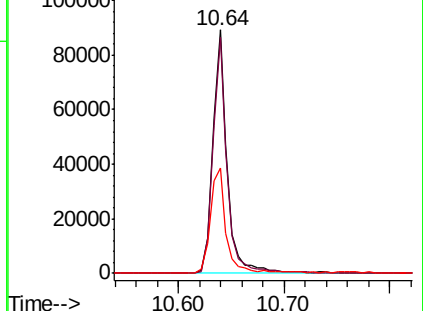
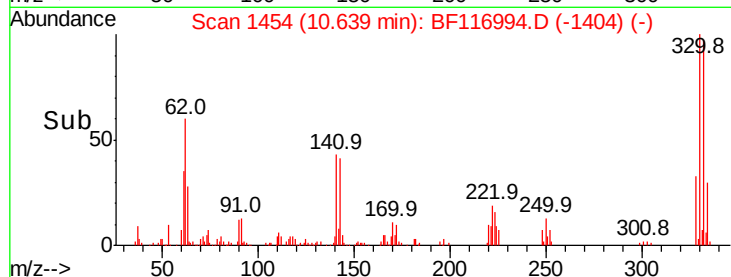
141 47.8 35.6 53.4



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: 69.858 ng

RT: 9.17 min Scan# 1205

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

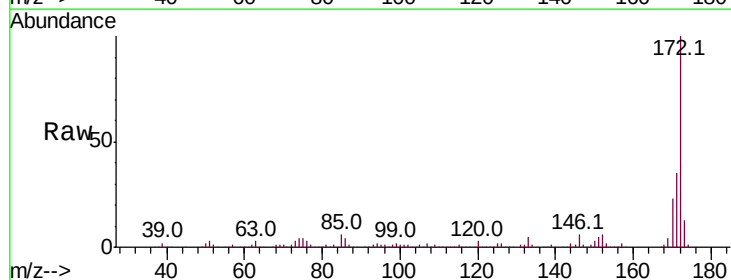
Tgt Ion:172 Resp: 493670

Ion Ratio Lower Upper

172 100

171 34.7 29.1 43.7

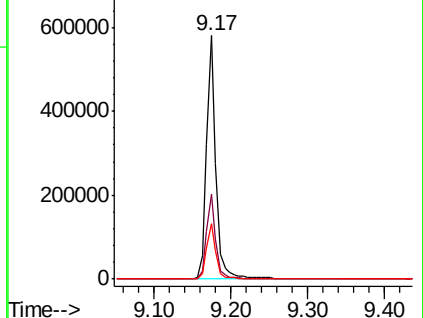
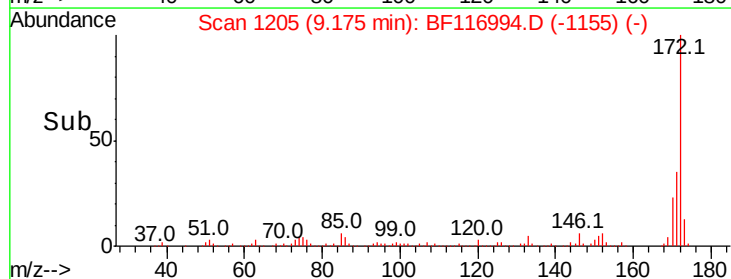
170 23.0 19.2 28.8

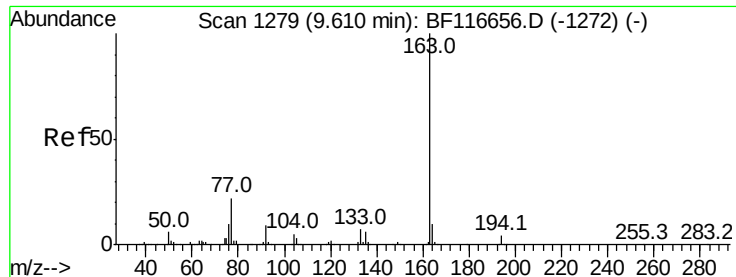


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 5.281 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampleId :

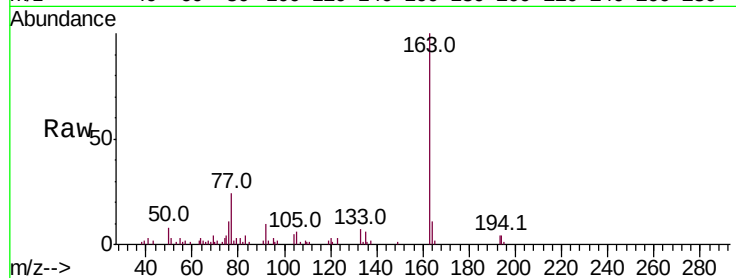
Tot Ion:163 Resp: 43465

Ion Ratio Lower Upper

163 100

194 3.8 2.7 4.1

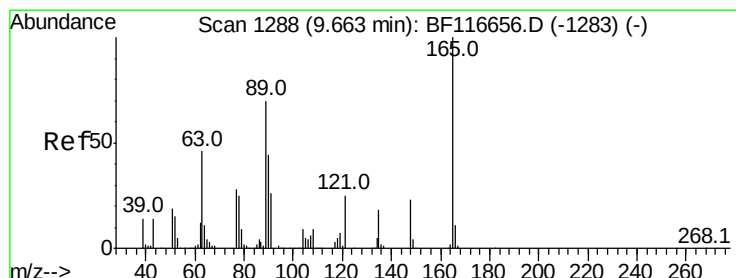
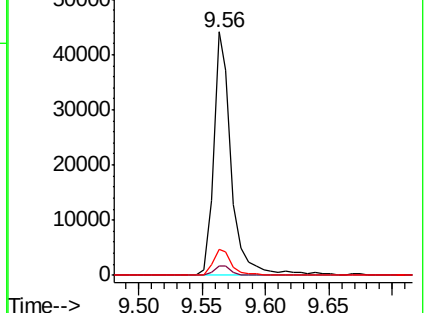
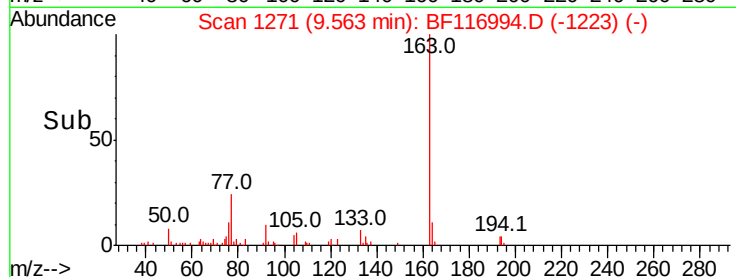
164 10.6 8.2 12.4



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



#51

2,6-Dinitrotoluene

Concen: 9.971 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.21 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

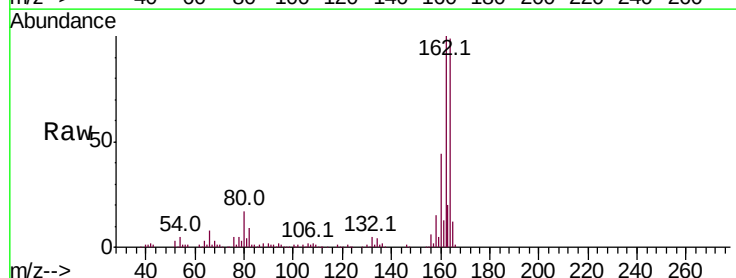
Tgt Ion:165 Resp: 15657

Ion Ratio Lower Upper

165 100

63 2.3 38.0 57.0#

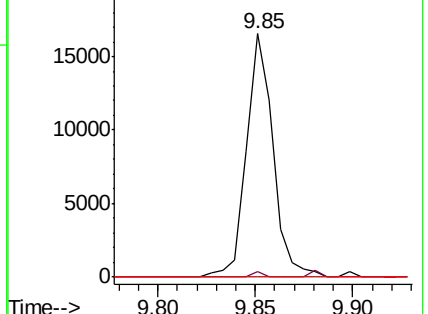
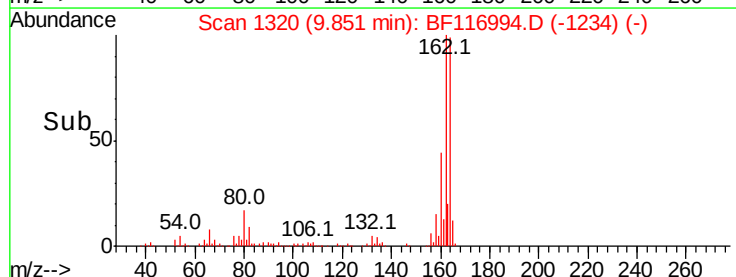
89 0.0 44.1 66.1#

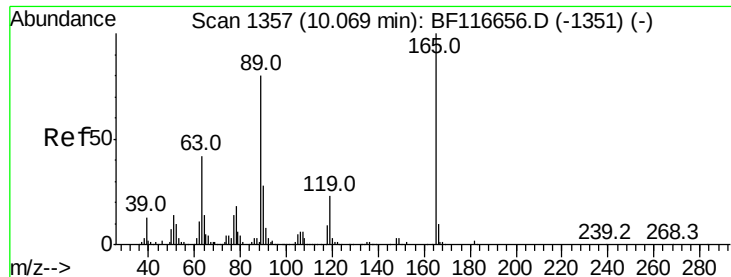


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#57

2,4-Dinitrotoluene

Concen: 8.155 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.19 min

Lab File: BF116994.D

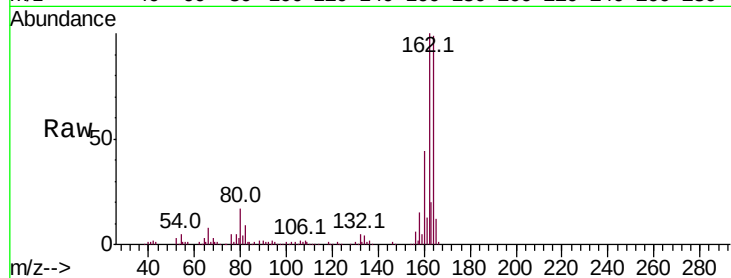
Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165	Resp:	15657
Ion Ratio	Lower	Upper
165	100	
63	2.3	36.2 54.2#
89	0.0	66.1 99.1#
182	0.0	1.8 2.8#

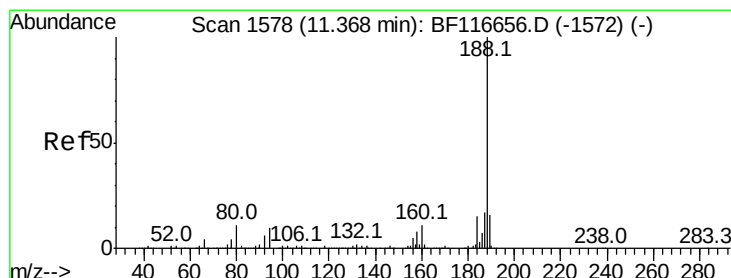
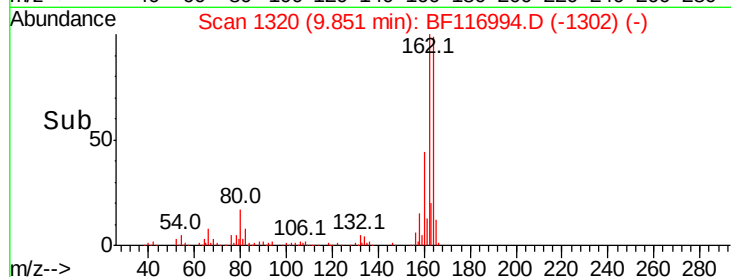
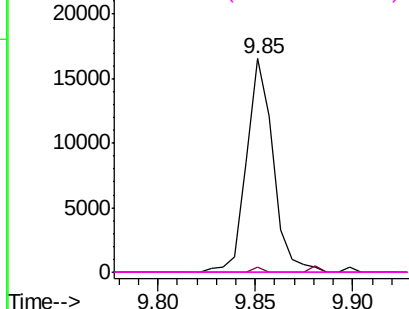


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

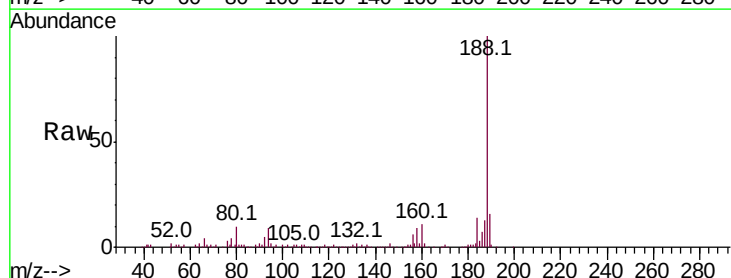
RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

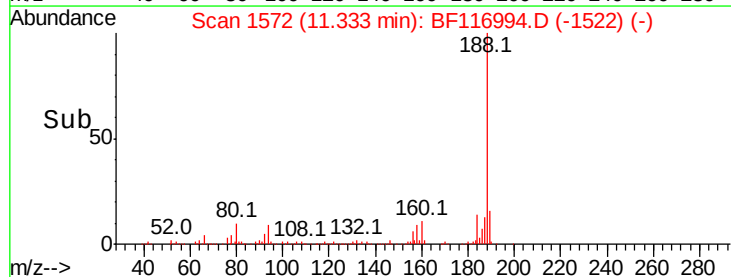
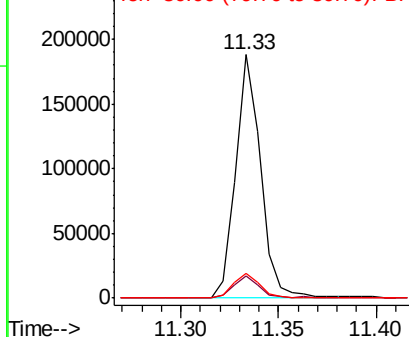
Tgt Ion:188	Resp:	167081
Ion Ratio	Lower	Upper
188	100	
94	9.0	7.4 11.2
80	10.3	8.5 12.7

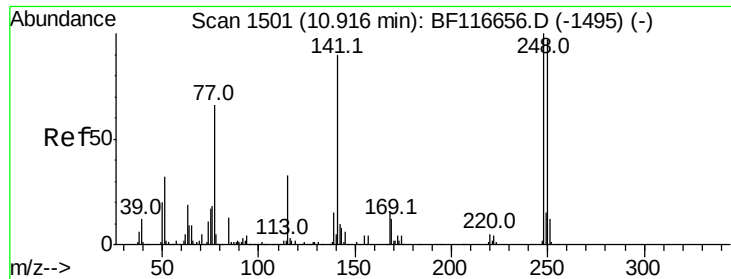


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

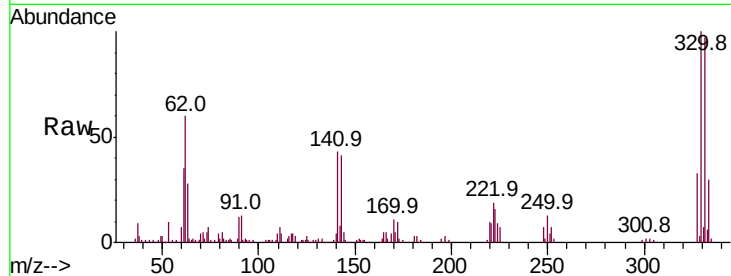




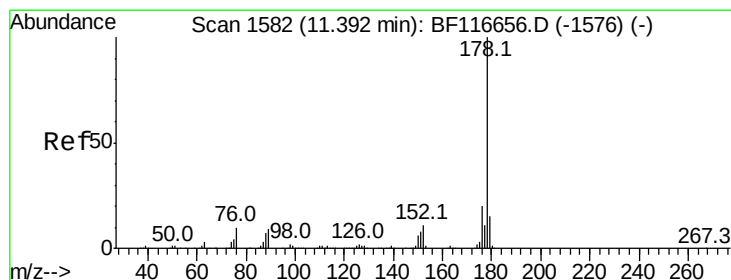
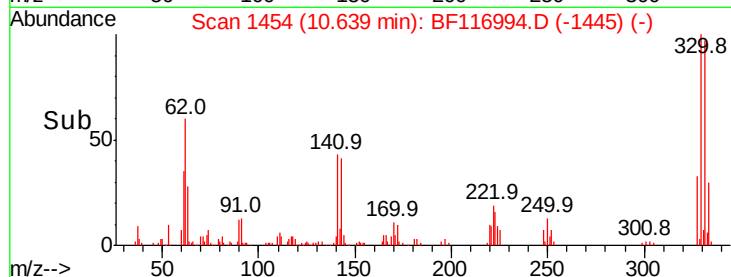
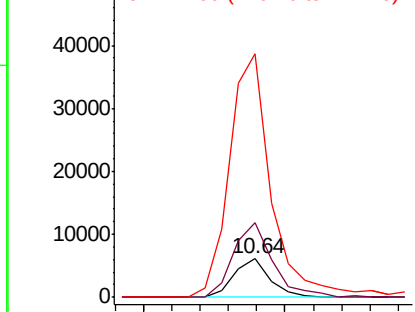
#67
 4-Bromophenyl-phenylether
 Concen: 3.206 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.25 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 5442
 Ion Ratio Lower Upper
 248 100
 250 197.0 77.0 115.4#
 141 637.4 70.2 105.2#

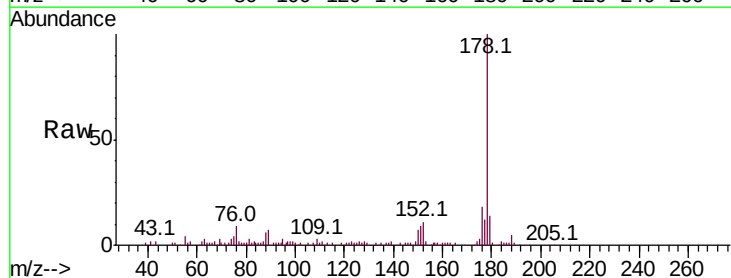


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

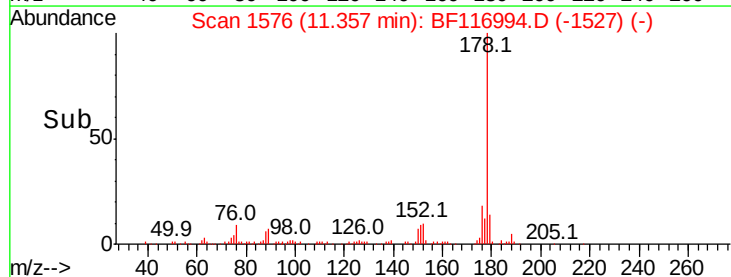
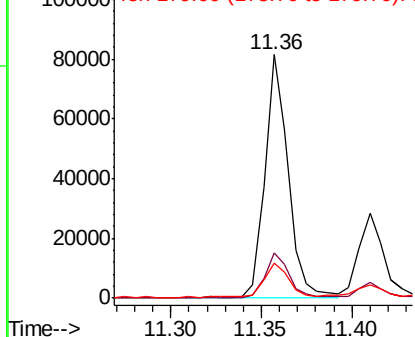


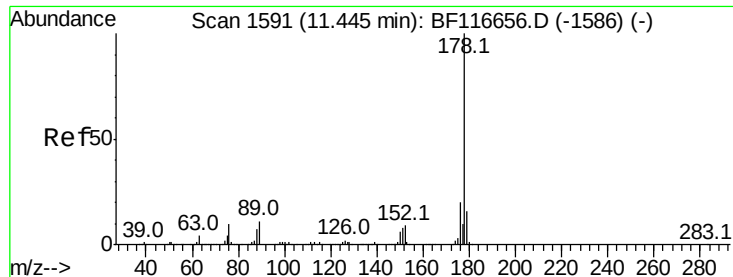
#71
 Phenanthrene
 Concen: 7.866 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Tgt Ion:178 Resp: 73163
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.7 23.5
 179 14.3 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 2.631 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

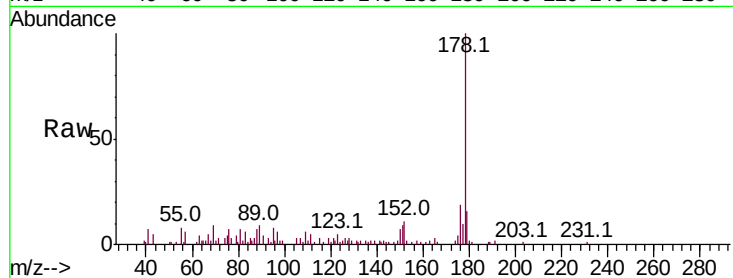
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 24630

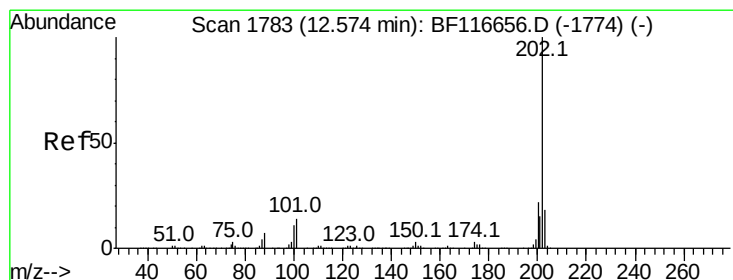
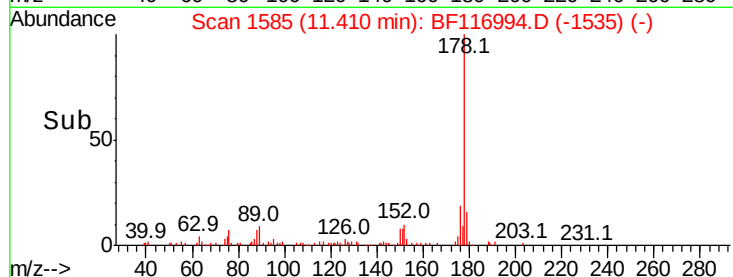
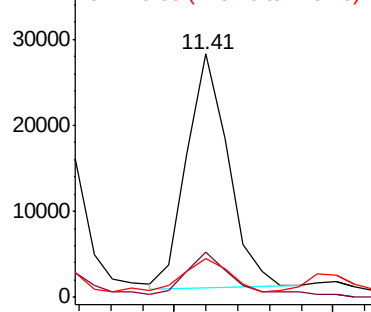
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.3	18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 18.535 ng

RT: 12.55 min Scan# 1778

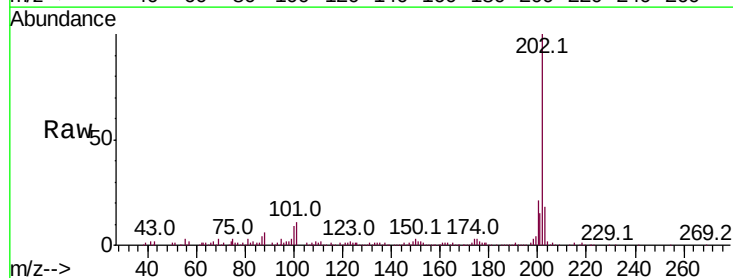
Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Tgt Ion:202 Resp: 169414

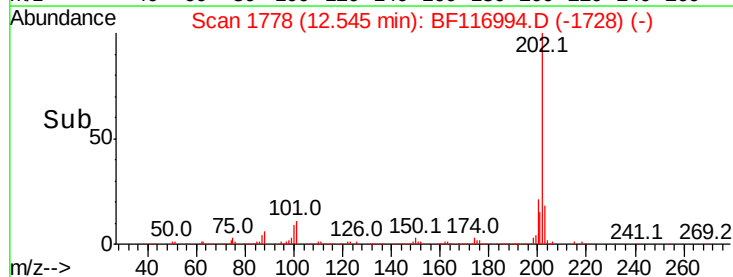
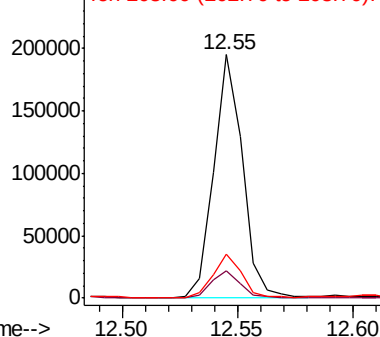
Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.0
203	17.8	0.0	37.5

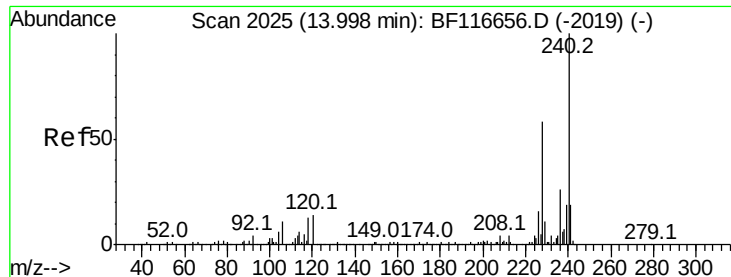


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampleId :

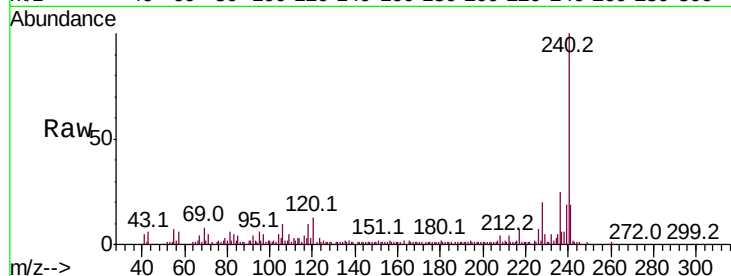
Tot Ion:240 Resp: 123391

Ion Ratio Lower Upper

240 100

120 12.5 9.1 13.7

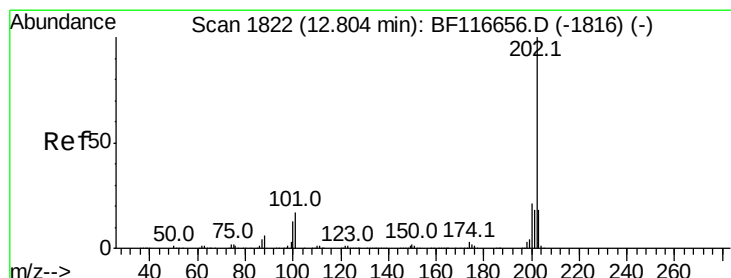
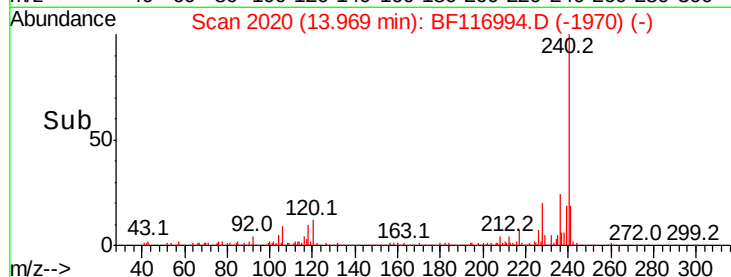
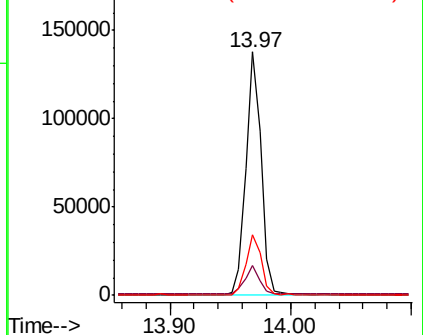
236 24.7 20.9 31.3



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

Pyrene

Concen: 14.388 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

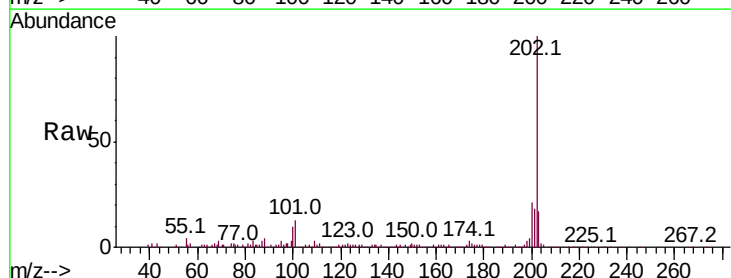
Tgt Ion:202 Resp: 157815

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

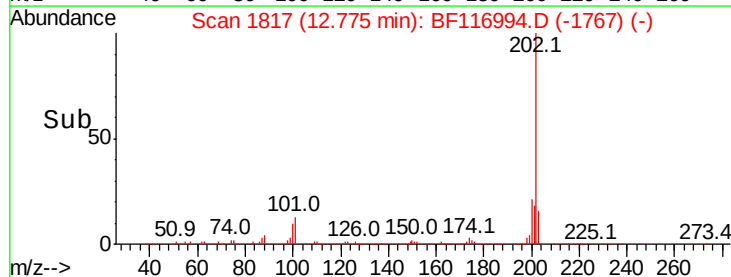
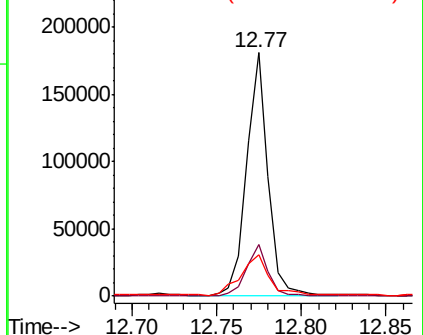
203 17.0 14.2 21.2

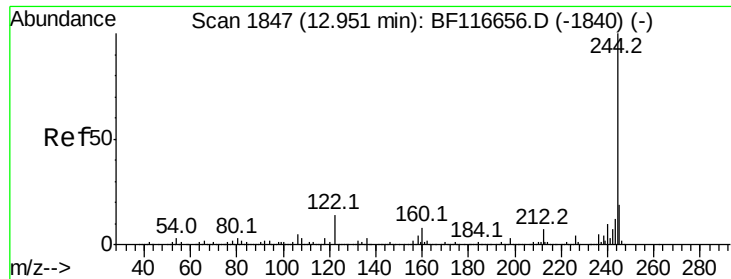


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

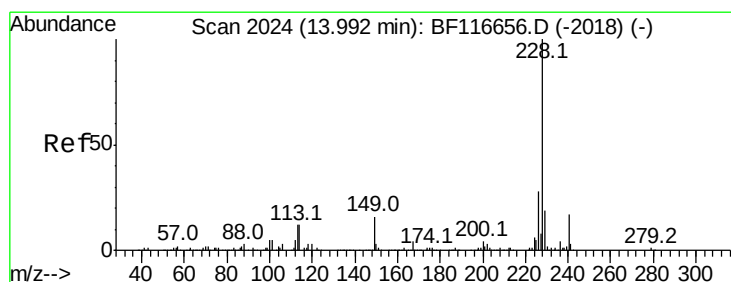
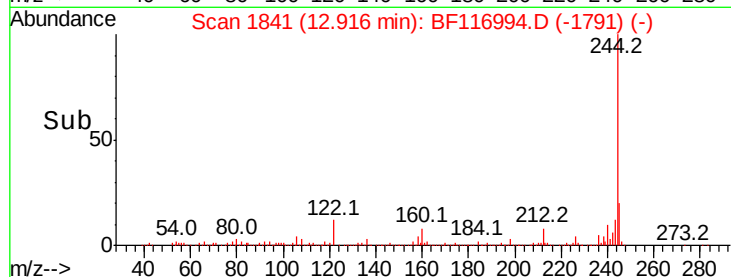
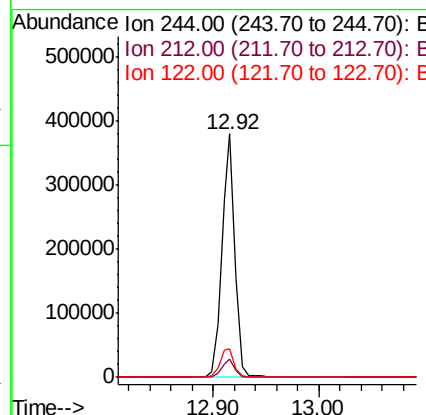
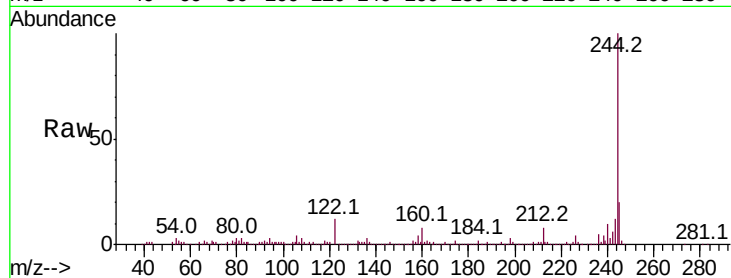




#79
 Terphenyl-d14
 Concen: 49.432 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

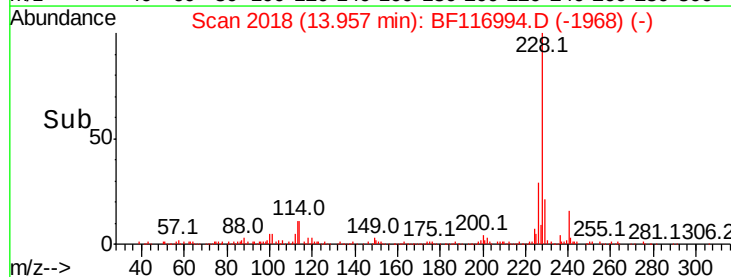
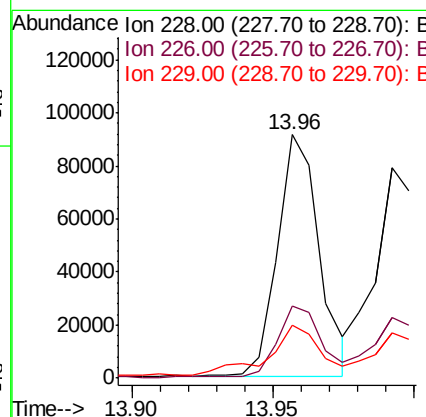
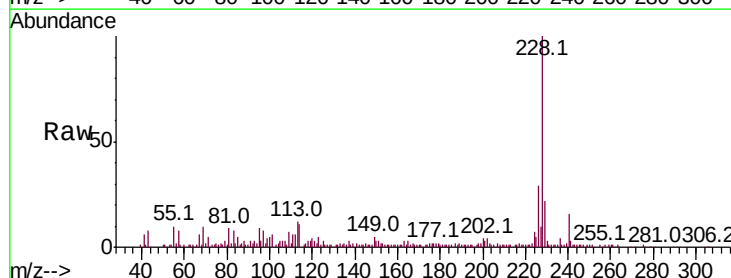
Instrument :
 BNA_F
 ClientSampled :

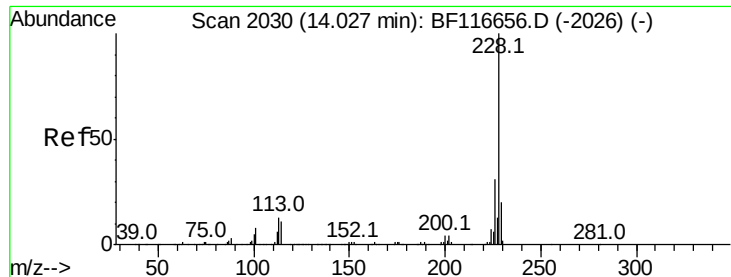
Tot Ion:244 Resp: 329711
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.7 8.5
 122 12.0 11.5 17.3



#81
 Benzo(a)anthracene
 Concen: 12.067 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Tgt Ion:228 Resp: 94238
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.3 33.5
 229 21.5 15.8 23.8

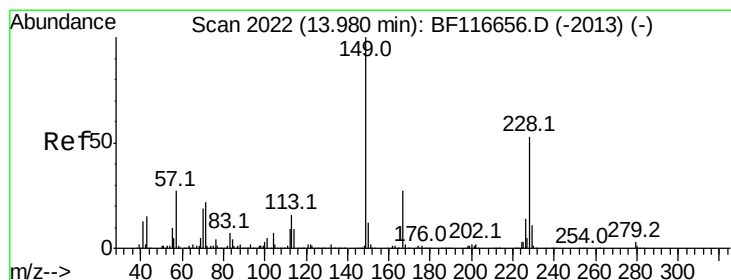
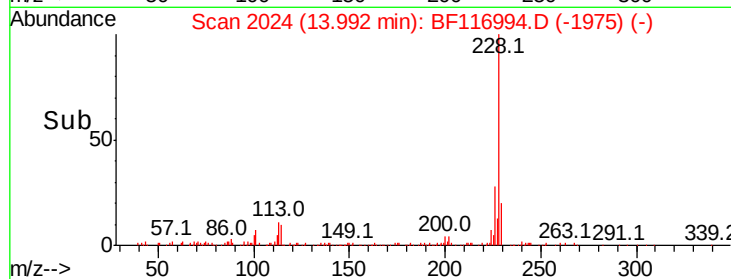
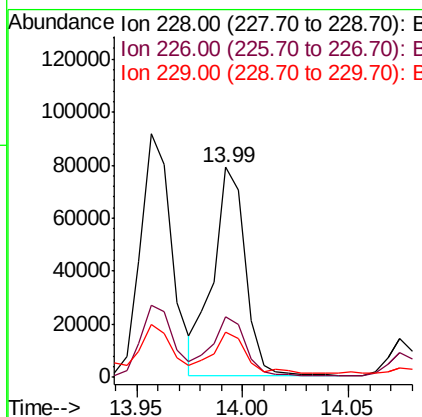
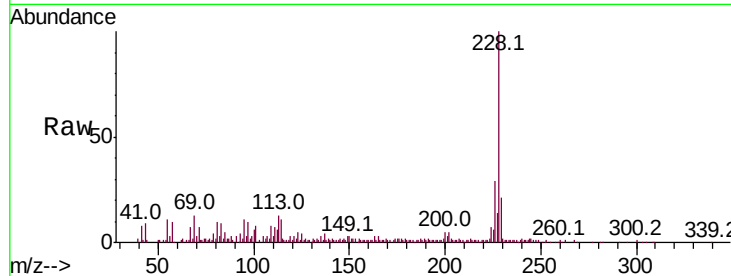




#83
 Chrysene
 Concen: 10.384 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

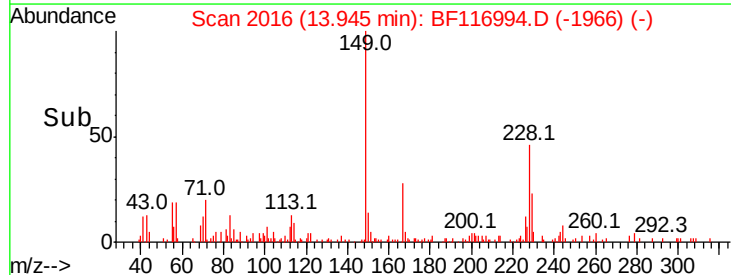
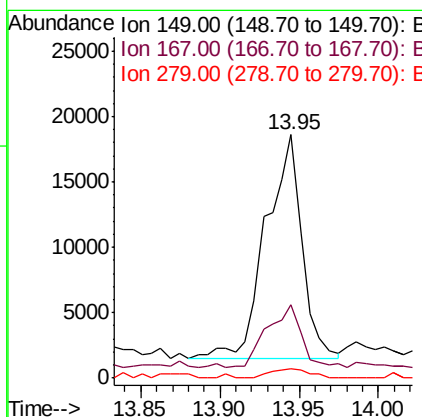
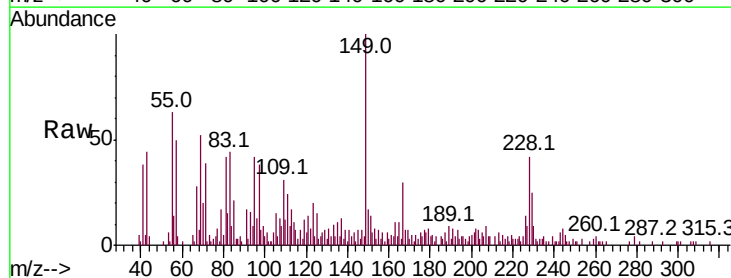
Instrument :
 BNA_F
 ClientSampleId :

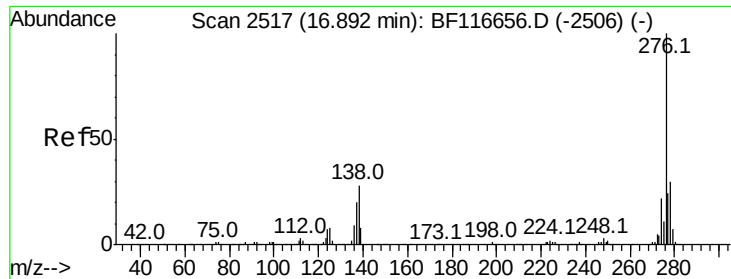
Tot Ion:228 Resp: 83548
 Ion Ratio Lower Upper
 228 100
 226 28.9 24.5 36.7
 229 21.4 15.7 23.5



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 4.076 ng
 RT: 13.95 min Scan# 2016
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Tgt Ion:149 Resp: 26838
 Ion Ratio Lower Upper
 149 100
 167 30.2 21.3 31.9
 279 3.9 2.6 3.8#

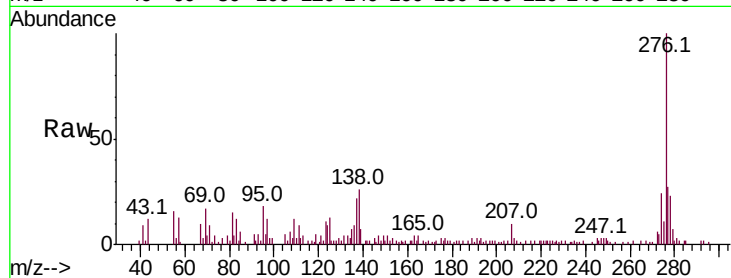




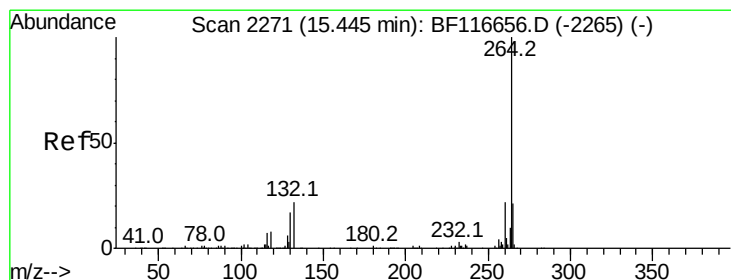
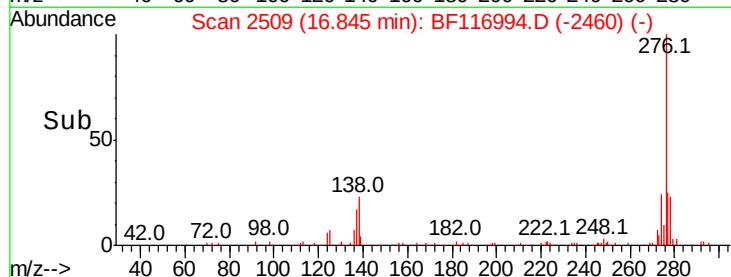
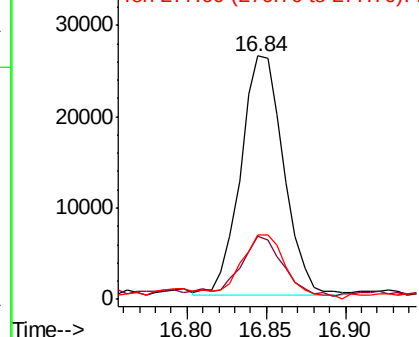
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.669 ng
 RT: 16.84 min Scan# 2509
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.5	20.6	31.0
277	28.5	19.9	29.9

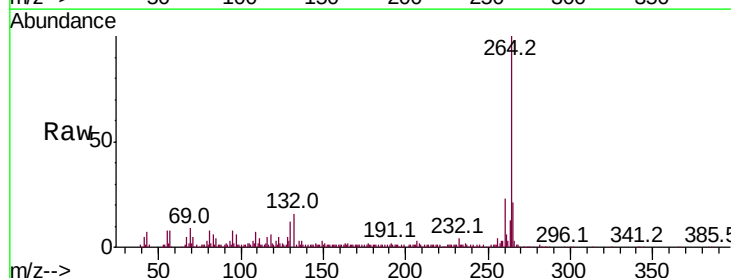


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

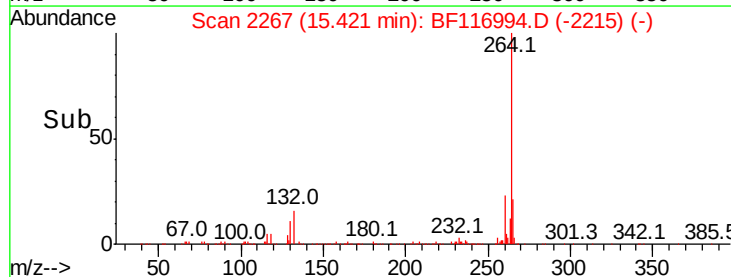
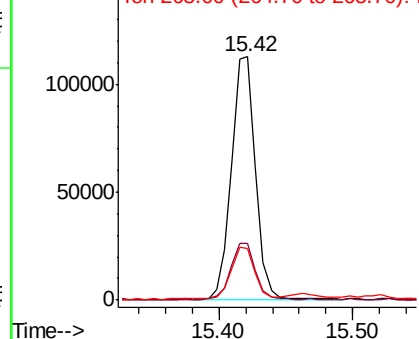


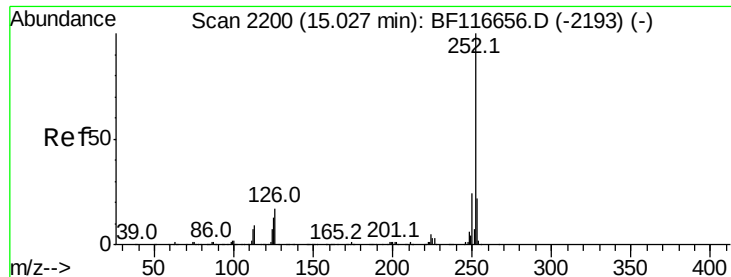
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2267
 Delta R.T. 0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.4
265	21.4	17.9	26.9



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

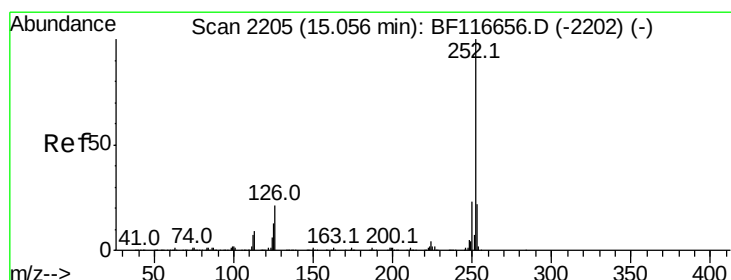
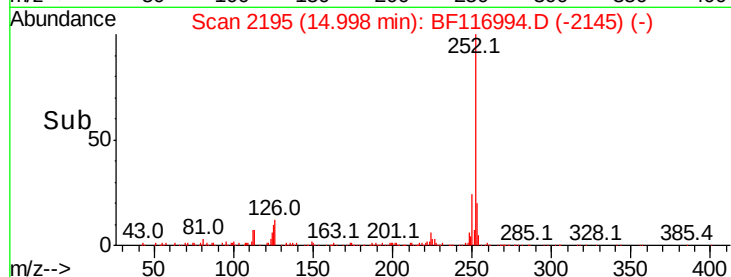
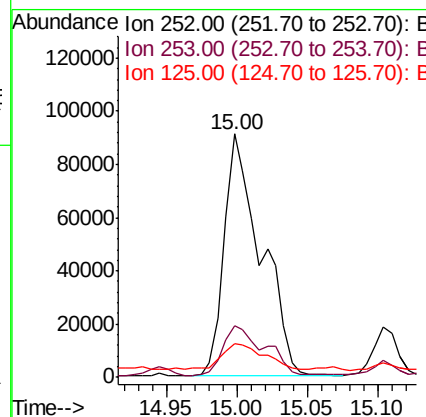
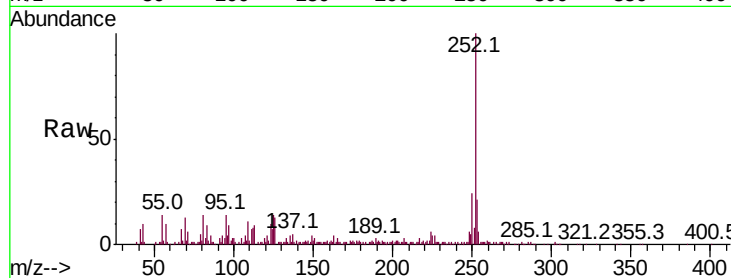




#88
Benzo(b)fluoranthene
Concen: 19.043 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF116994.D
Acq: 12 Sep 2019 16:15

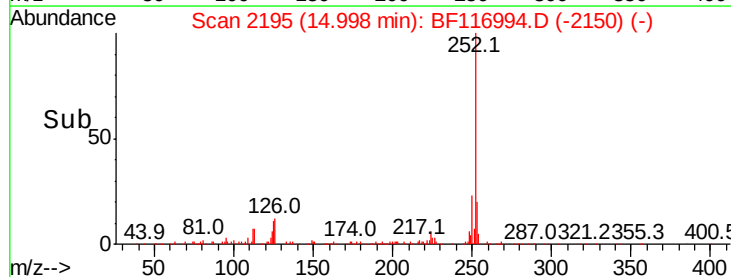
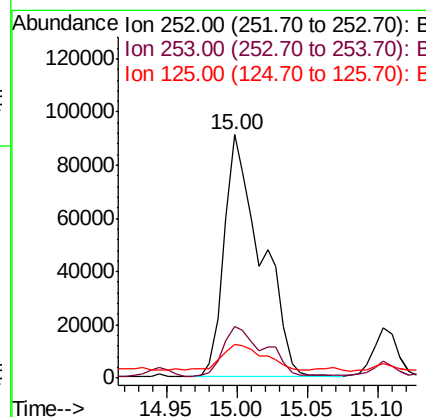
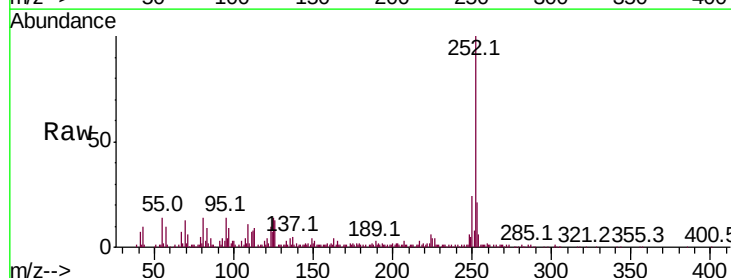
Instrument :
BNA_F
ClientSampleId :

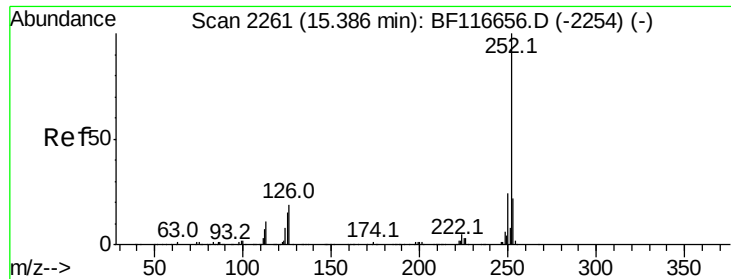
Tot Ion:252 Resp: 167071
Ion Ratio Lower Upper
252 100
253 20.9 17.5 26.3
125 14.1 8.3 12.5#



#89
Benzo(k)fluoranthene
Concen: 20.886 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.04 min
Lab File: BF116994.D
Acq: 12 Sep 2019 16:15

Tgt Ion:252 Resp: 167071
Ion Ratio Lower Upper
252 100
253 20.9 16.8 25.2
125 14.1 7.6 11.4#





#90

Benzo(a)pyrene

Concen: 11.985 ng

RT: 15.36 min Scan# 2256

Delta R.T. 0.00 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

Instrument :

BNA_F

ClientSampled :

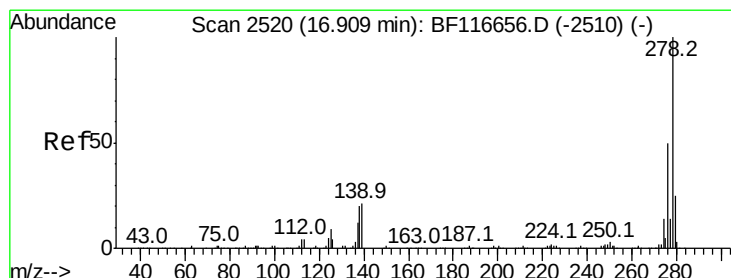
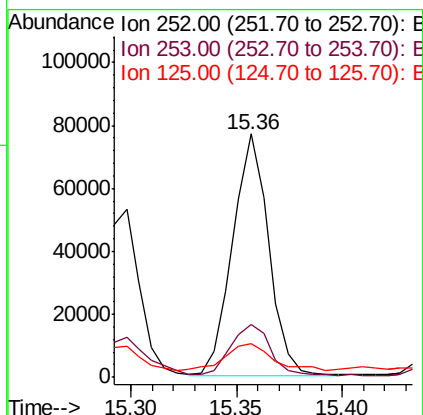
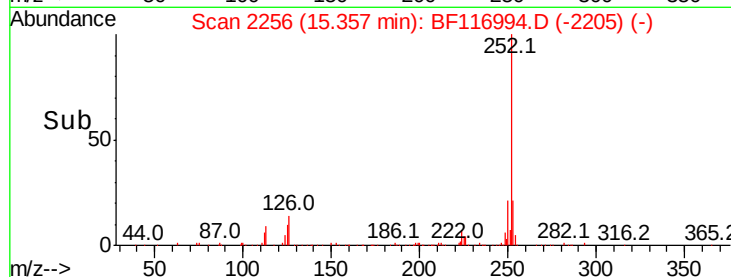
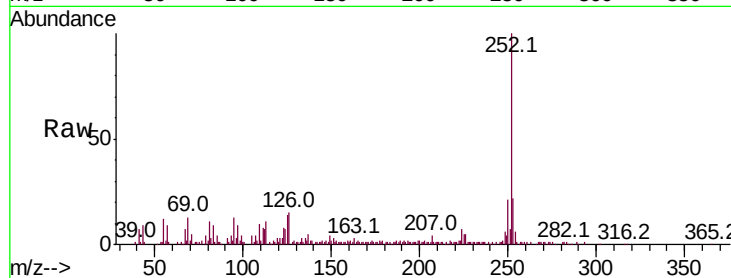
Tot Ion:252 Resp: 91477

Ion Ratio Lower Upper

252 100

253 21.9 17.6 26.4

125 13.9 10.2 15.2



#91

Dibenzo(a,h)anthracene

Concen: 2.192 ng

RT: 16.86 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BF116994.D

Acq: 12 Sep 2019 16:15

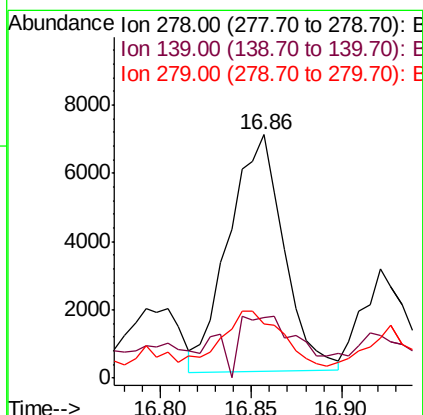
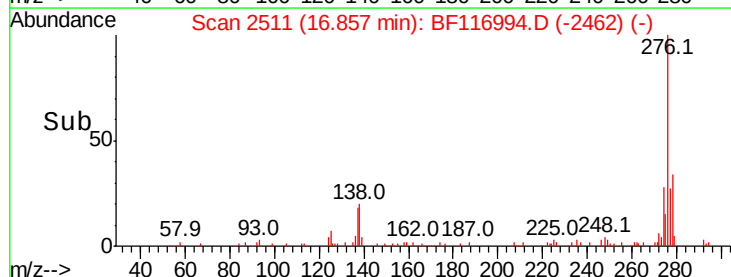
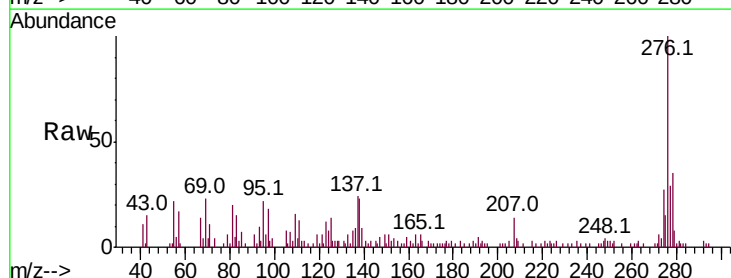
Tgt Ion:278 Resp: 14645

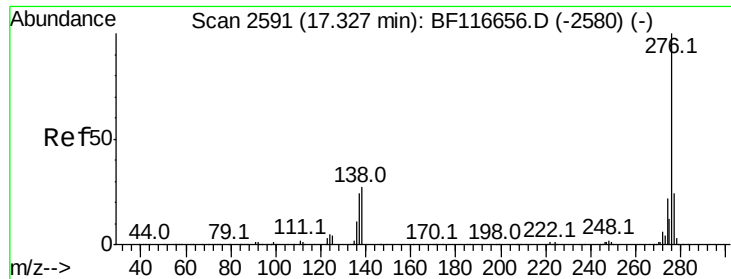
Ion Ratio Lower Upper

278 100

139 24.9 13.1 19.7#

279 22.3 18.6 27.8

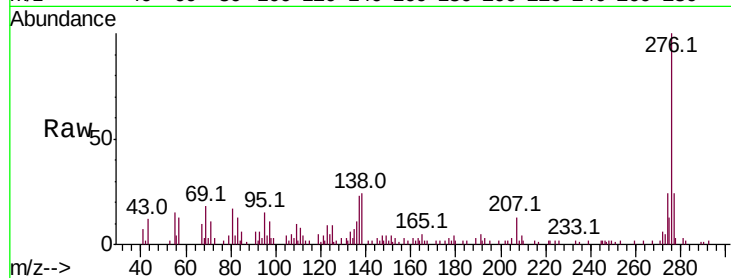




#92
 Benzo(a,h,i)perylene
 Concen: 7.123 ng
 RT: 17.28 min Scan# 2583
 Delta R.T. -0.01 min
 Lab File: BF116994.D
 Acq: 12 Sep 2019 16:15

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.0	28.6
138	24.4	18.7	28.1



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

