

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082319\
 Data File : BF116499.D
 Acq On : 24 Aug 2019 1:21
 Operator : HP/JU
 Sample : K4387-09
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T4-A1-A4-(0-2)

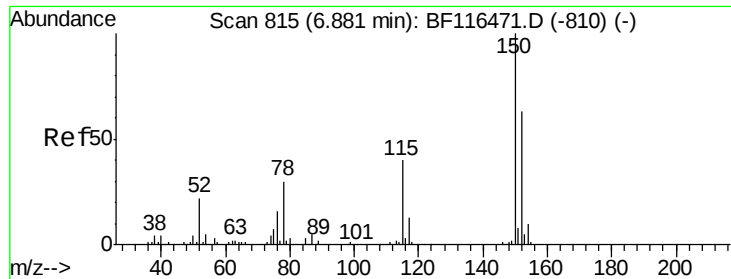
Quant Time: Aug 24 03:37:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	99954	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	357949	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	151630	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	232420	20.00	ng	0.00
76) Chrysene-d12	14.04	240	179412	20.00	ng	0.01
87) Perylene-d12	15.56	264	173577	20.00	ng	0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	372118	54.40	ng	0.00
7) Phenol-d6	6.50	99	483859	57.69	ng	0.00
23) Nitrobenzene-d5	7.44	82	270035	41.27	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	79332	60.93	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	432074	45.89	ng	0.00
79) Terphenyl-d14	12.99	244	352994	36.75	ng	0.00

Target Compounds				Qvalue		
18) Hexachloroethane	7.46	117	18482	6.337	ng	# 5
25) Isophorone	7.44	82	268417	20.818	ng	# 67
50) Dimethylphthalate	9.63	163	23731	2.243	ng	# 99
51) 2,6-Dinitrotoluene	9.92	165	20846	9.627	ng	# 26
57) 2,4-Dinitrotoluene	9.92	165	20846	7.565	ng	# 21
65) 4,6-Dinitro-2-methylphenol	10.70	198	113	7.107	ng	# 1
71) Phenanthrene	11.42	178	130534	10.310	ng	100
72) Anthracene	11.47	178	33358	2.622	ng	95
75) Fluoranthene	12.61	202	285553	21.815	ng	96
78) Pyrene	12.84	202	251926	17.559	ng	98
81) Benzo(a)anthracene	14.03	228	158573	13.647	ng	# 93
83) Chrysene	14.07	228	145951	12.392	ng	# 93
84) Bis(2-ethylhexyl)phthalate	14.03	149	44319	5.364	ng	# 93
86) Indeno(1,2,3-cd)pyrene	17.04	276	69470	6.886	ng	97
88) Benzo(b)fluoranthene	15.11	252	223667	20.859	ng	# 68
89) Benzo(k)fluoranthene	15.11	252	223667	23.025	ng	# 68
90) Benzo(a)pyrene	15.49	252	102830	10.851	ng	# 50
91) Dibenzo(a,h)anthracene	17.04	278	20717	2.660	ng	# 40
92) Benzo(g,h,i)perylene	17.48	276	65643	8.842	ng	# 84

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

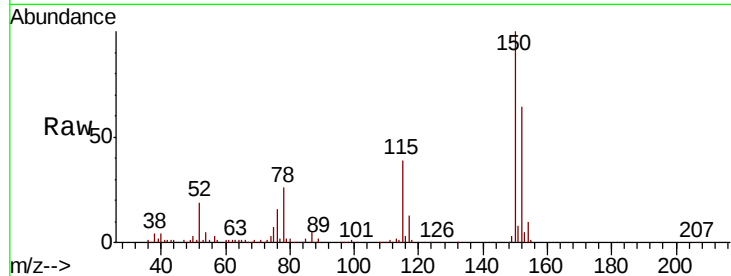


#1

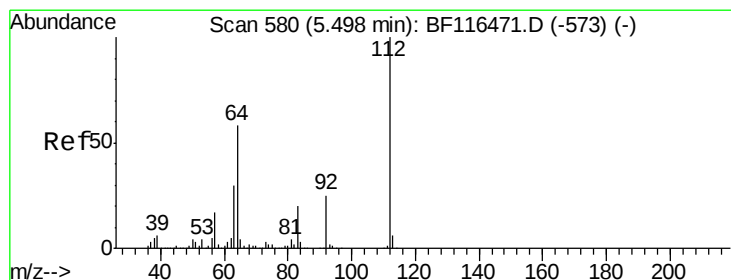
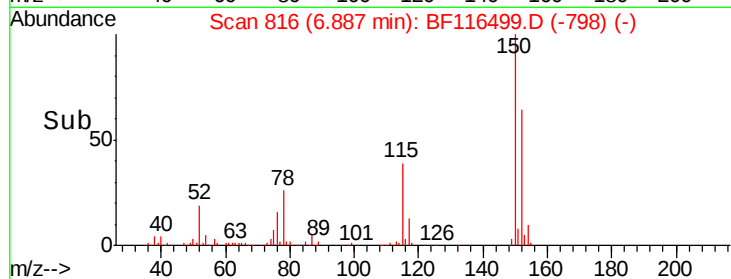
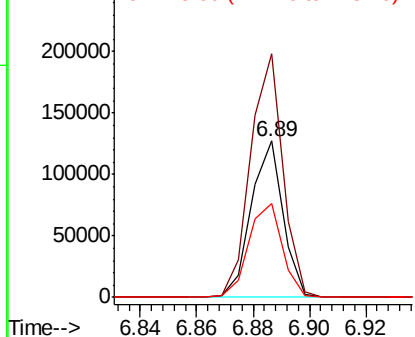
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Instrument :
BNA_F
ClientSampleId :
T4-A1-A4-(0-2)

Tgt Ion:152 Resp: 99954
Ion Ratio Lower Upper
152 100
150 155.8 126.7 190.1
115 60.4 50.9 76.3



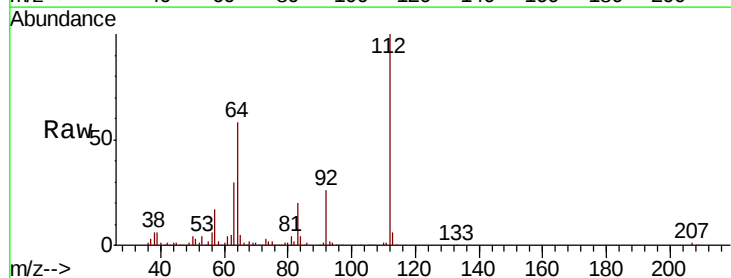
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



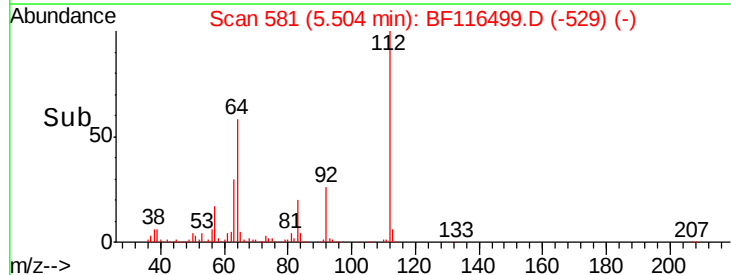
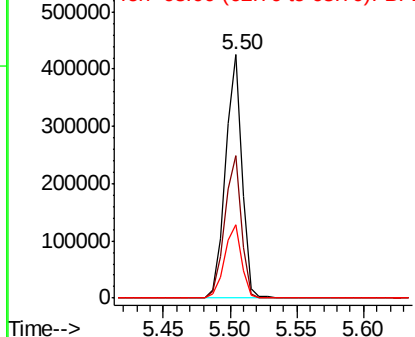
#5

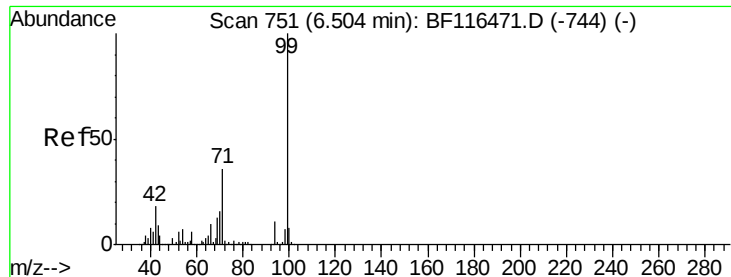
2-Fluorophenol
Concen: 54.397 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Tgt Ion:112 Resp: 372118
Ion Ratio Lower Upper
112 100
64 58.3 46.3 69.5
63 30.3 24.2 36.4



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: 57.686 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

Instrument :

BNA_F

ClientSampleId :

T4-A1-A4-(0-2)

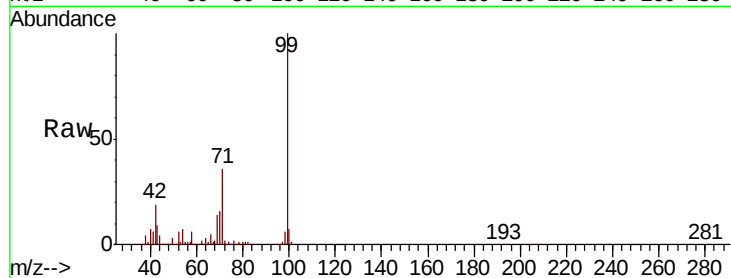
Tgt Ion: 99 Resp: 483859

Ion Ratio Lower Upper

99 100

42 18.6 14.6 21.8

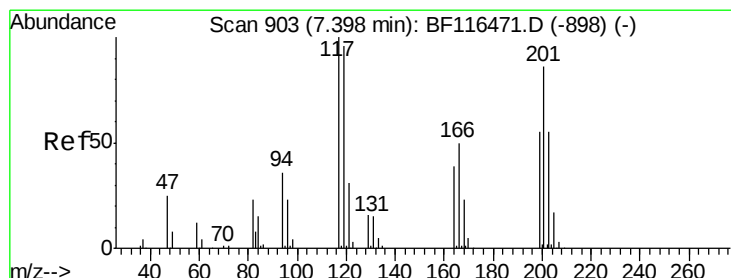
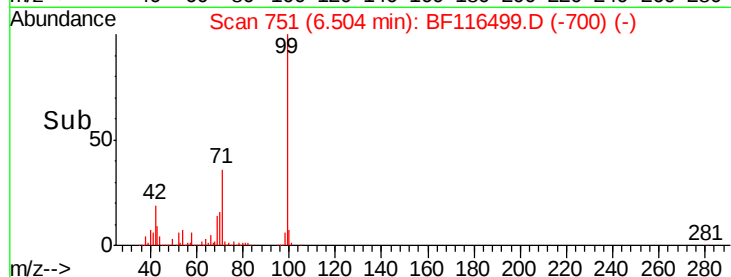
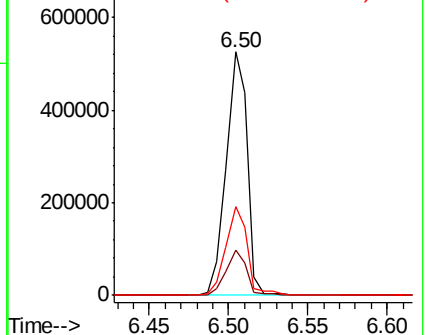
71 36.3 28.5 42.7



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: 6.337 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.06 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

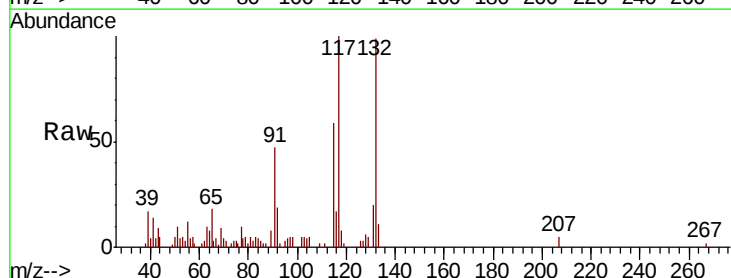
Tgt Ion: 117 Resp: 18482

Ion Ratio Lower Upper

117 100

119 1.9 77.0 115.6#

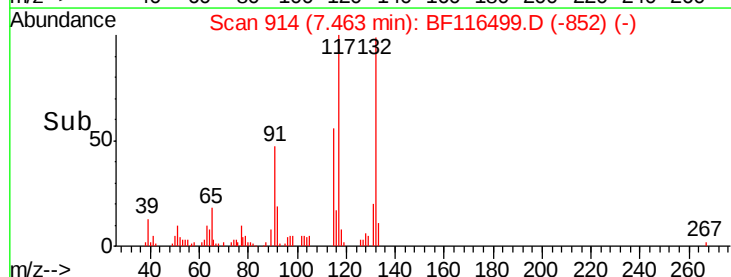
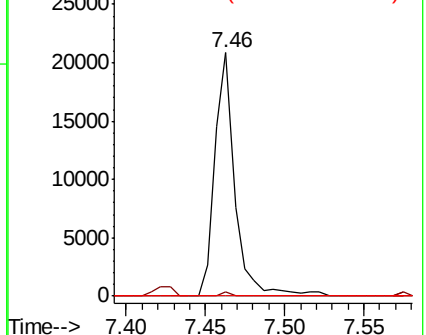
201 0.0 69.1 103.7#

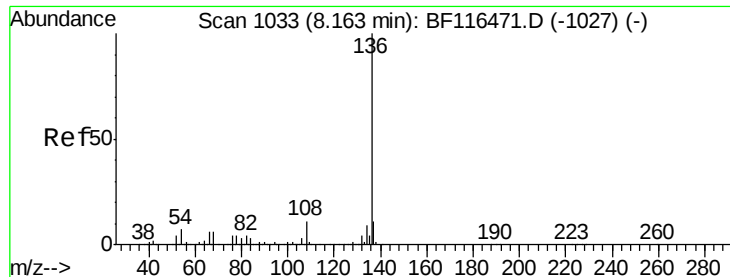


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

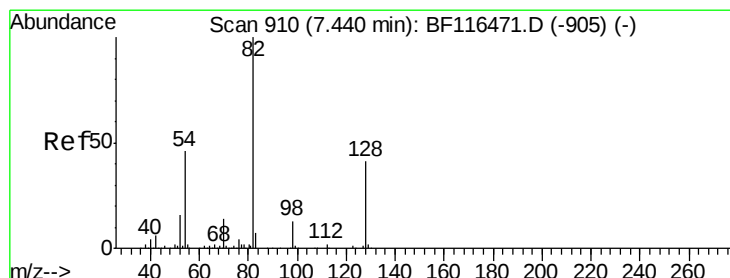
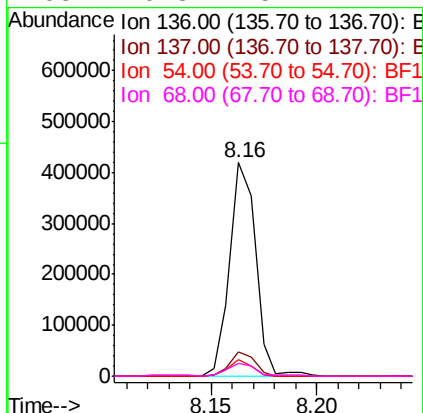
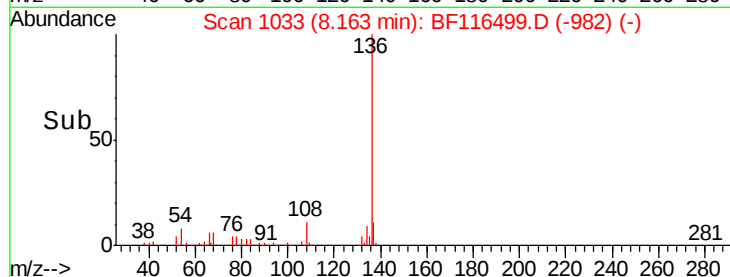
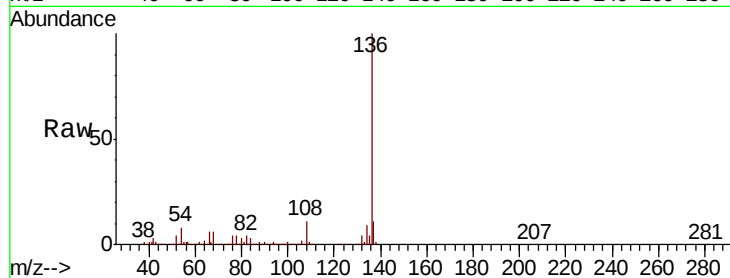




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

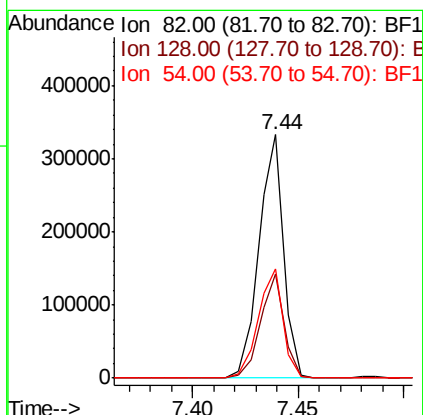
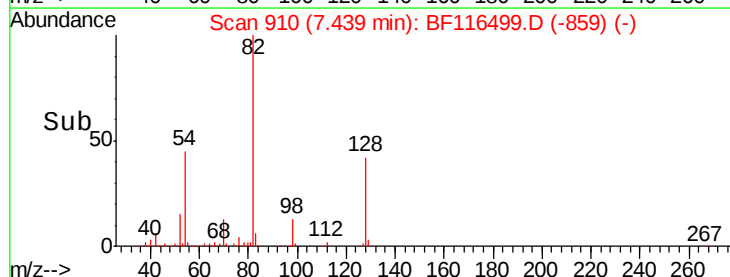
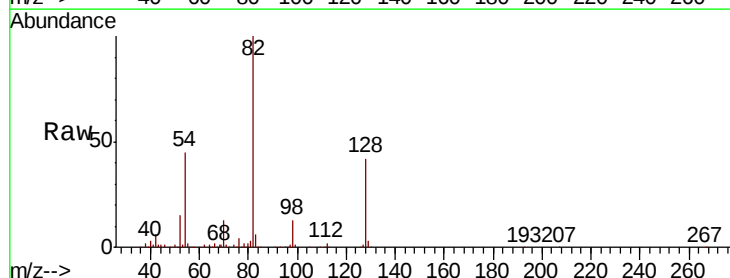
Instrument :
BNA_F
ClientSampleId :
T4-A1-A4-(0-2)

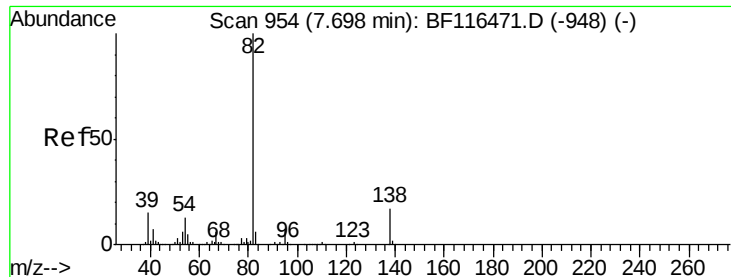
Tgt Ion:	136	Resp:	357949
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.8	5.8	8.6
68	6.3	5.1	7.7



#23
Nitrobenzene-d5
Concen: 41.273 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Tgt Ion:	82	Resp:	270035
Ion	Ratio	Lower	Upper
82	100		
128	42.5	32.2	48.4
54	44.8	36.5	54.7





#25

Isophorone

Concen: 20.818 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

Instrument :

BNA_F

ClientSampleId :

T4-A1-A4-(0-2)

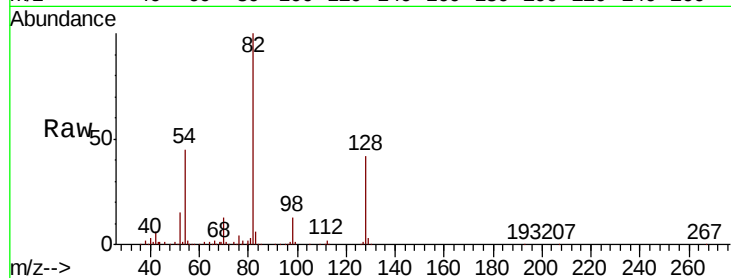
Tgt Ion: 82 Resp: 268417

Ion Ratio Lower Upper

82 100

95 0.3 5.3 7.9#

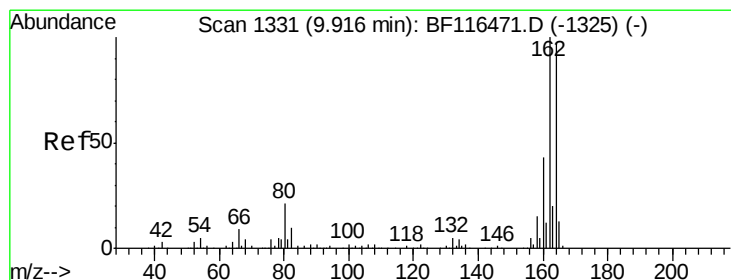
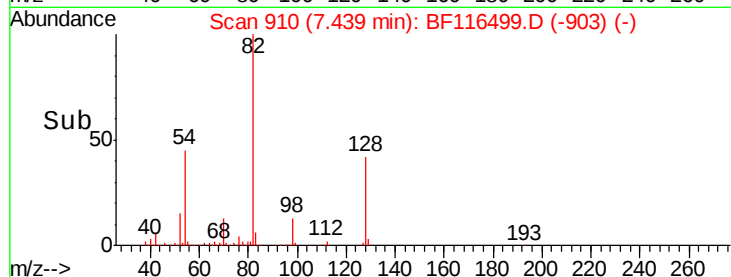
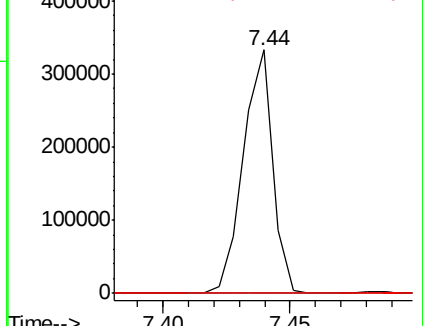
138 0.0 13.3 19.9#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

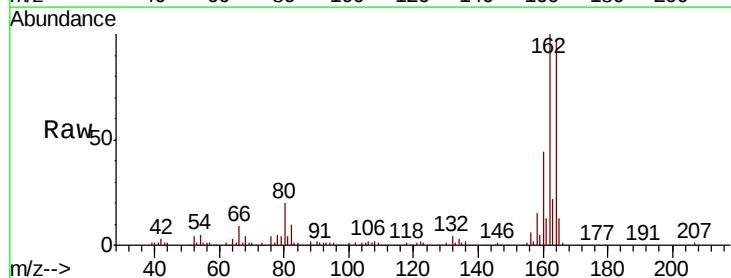
Tgt Ion: 164 Resp: 151630

Ion Ratio Lower Upper

164 100

162 103.2 82.6 123.8

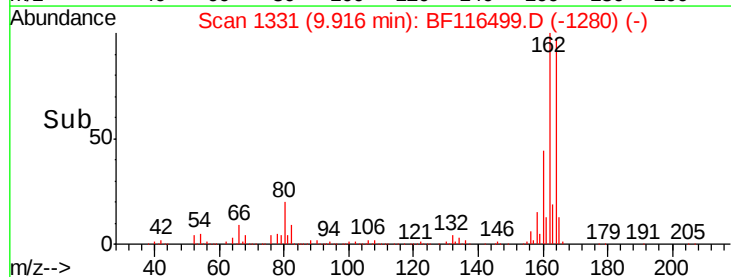
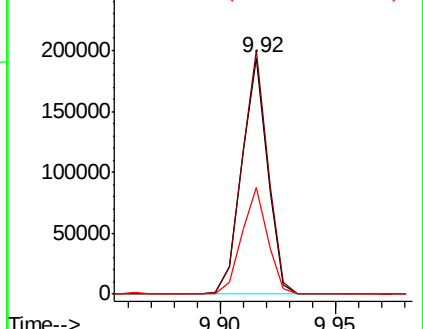
160 45.4 35.8 53.8

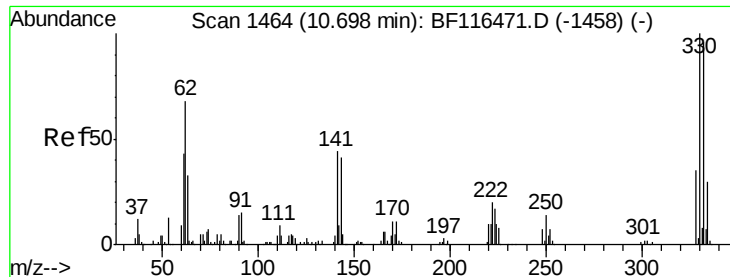


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

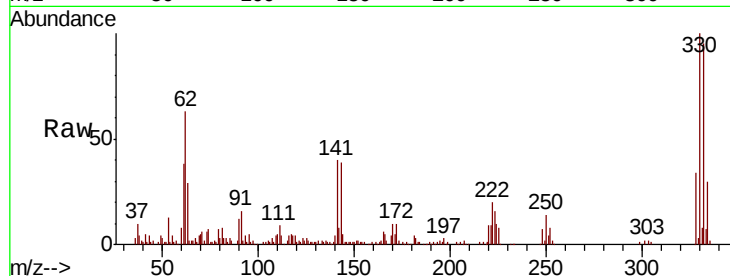




#42
 2,4,6-Tribromophenol
 Concen: 60.931 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.00 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Instrument :
 BNA_F
 ClientSampleId :
 T4-A1-A4-(0-2)

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.2	115.8
141	39.9	33.3	49.9

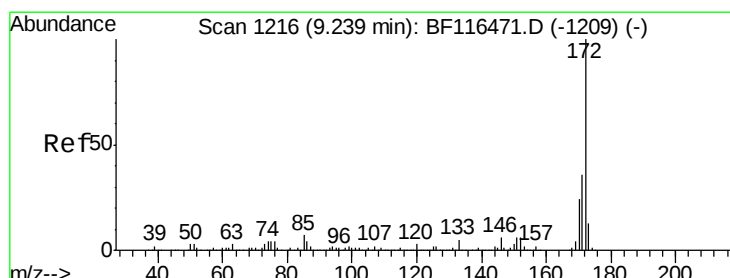
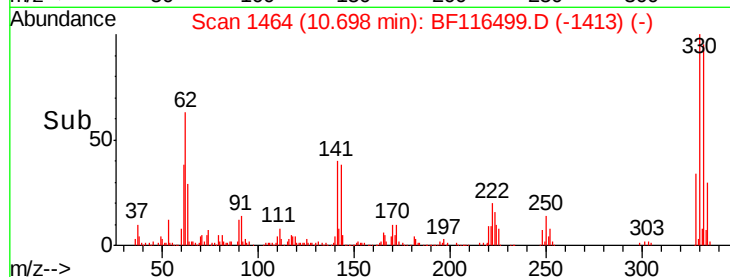
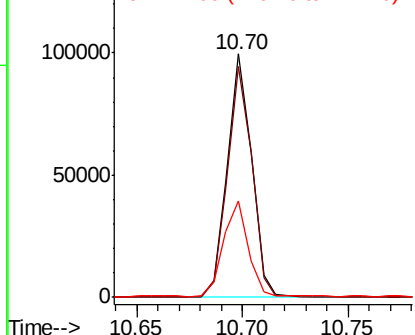


Abundance

Ion 329.80 (329.50 to 330.50): E

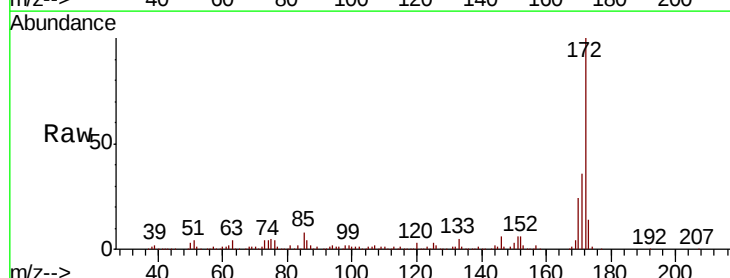
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 45.889 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.9	43.3
170	23.6	19.4	29.0

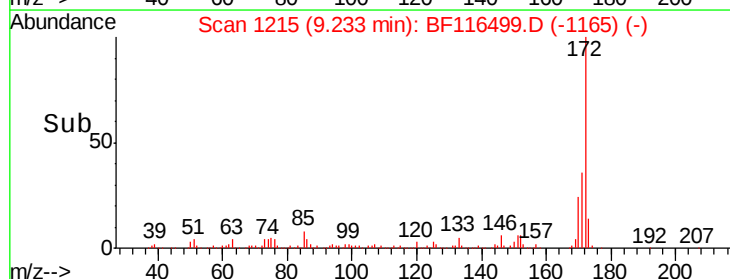
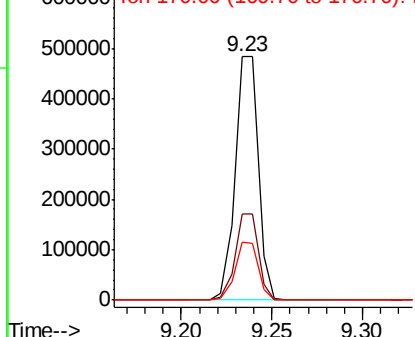


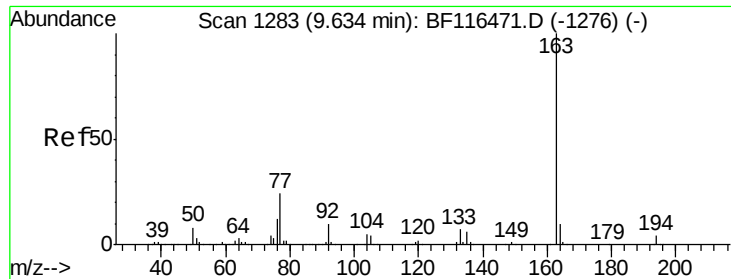
Abundance

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

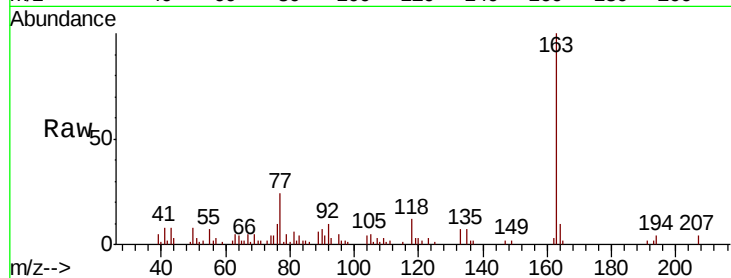




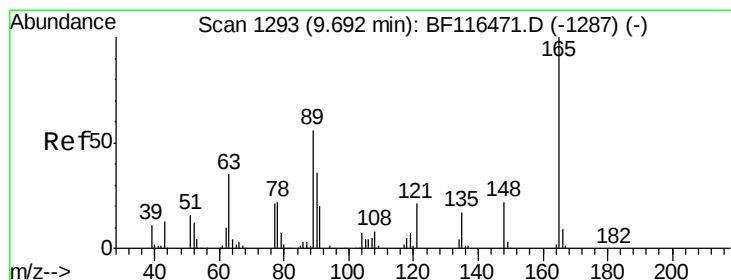
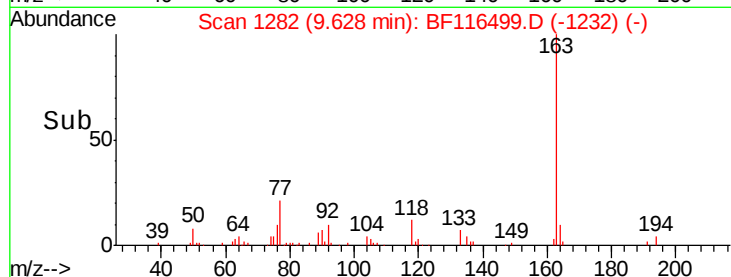
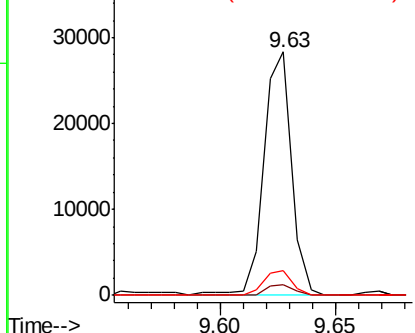
#50
Dimethylphthalate
Concen: 2.243 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.01 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Instrument :
BNA_F
ClientSampleId :
T4-A1-A4-(0-2)

Tgt Ion:163 Resp: 23731
Ion Ratio Lower Upper
163 100
194 4.4 2.9 4.3#
164 9.9 8.2 12.2

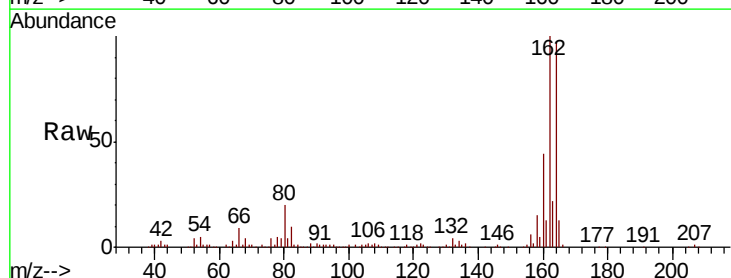


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

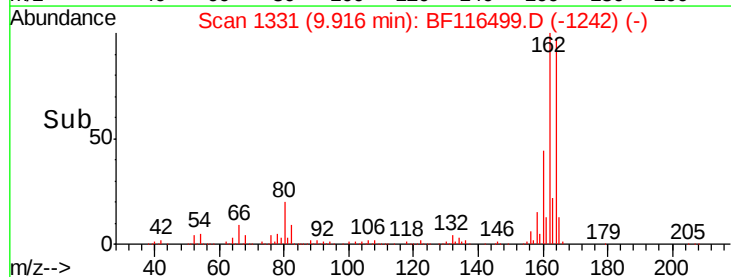
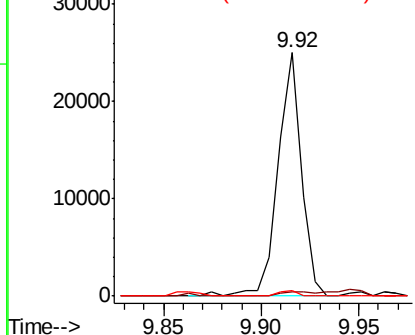


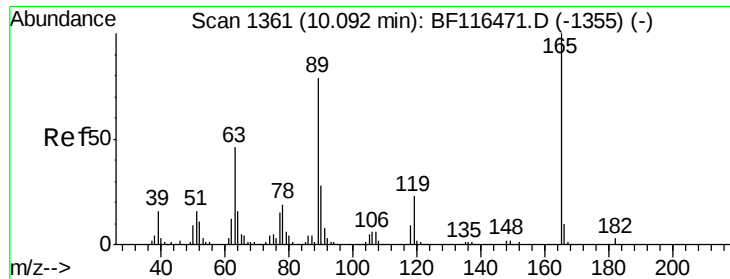
#51
2,6-Dinitrotoluene
Concen: 9.627 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.22 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Tgt Ion:165 Resp: 20846
Ion Ratio Lower Upper
165 100
63 1.8 43.7 65.5#
89 2.0 45.1 67.7#



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: 7.565 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.18 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

Instrument :

BNA_F

ClientSampleId :

T4-A1-A4-(0-2)

Tgt Ion:165 Resp: 20846

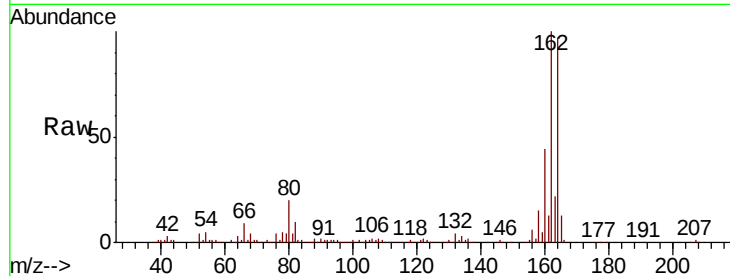
Ion Ratio Lower Upper

165 100

63 1.8 36.9 55.3#

89 2.0 63.4 95.0#

182 0.0 2.1 3.1#



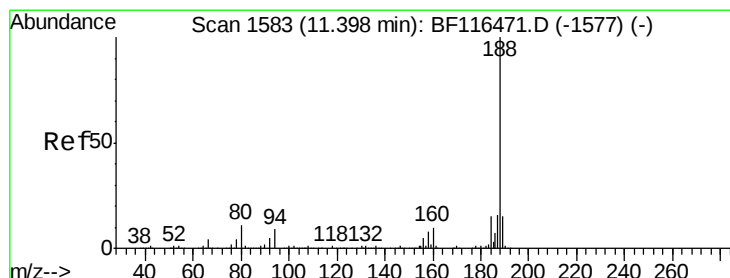
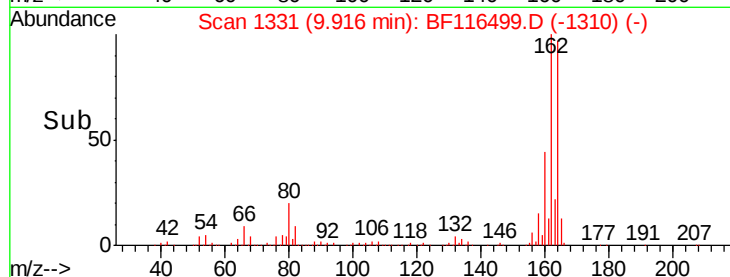
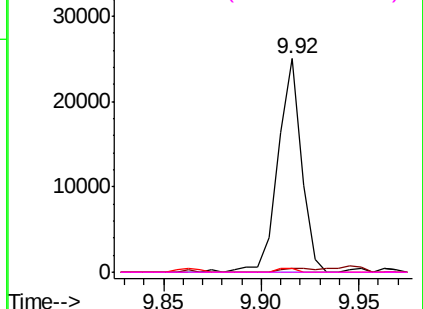
Abundance

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

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

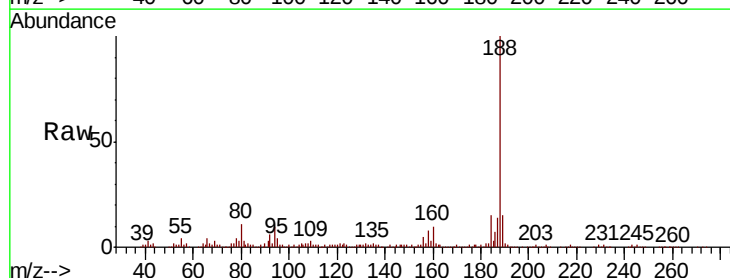
Tgt Ion:188 Resp: 232420

Ion Ratio Lower Upper

188 100

94 9.9 7.4 11.2

80 11.4 8.6 12.8

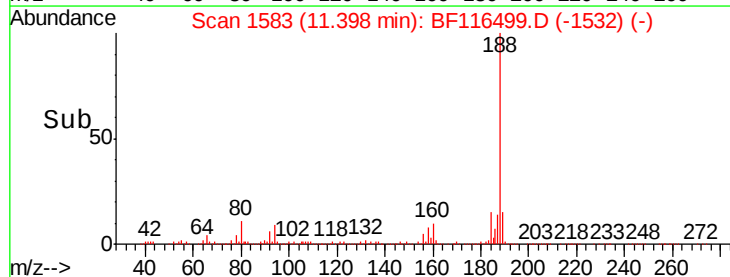
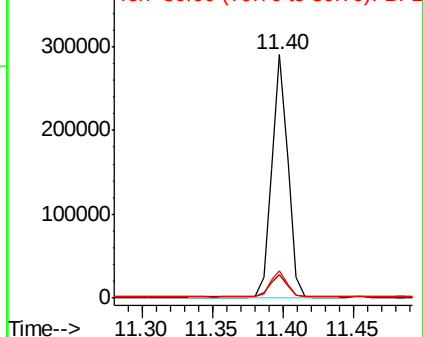


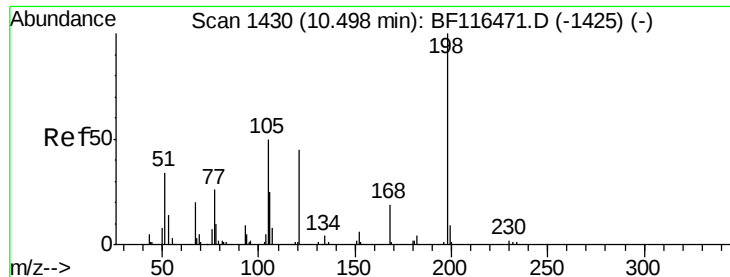
Abundance

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

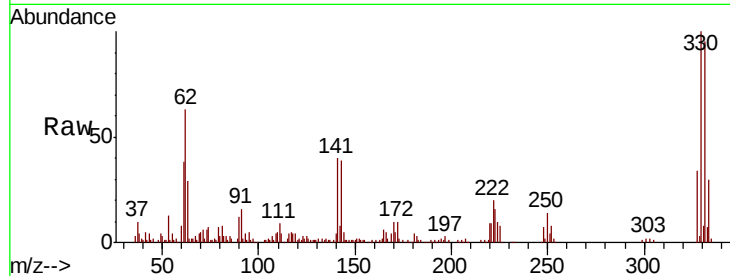




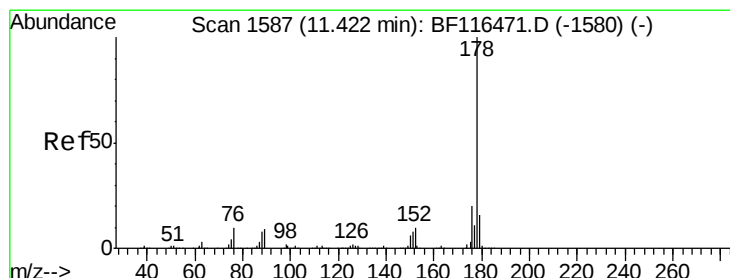
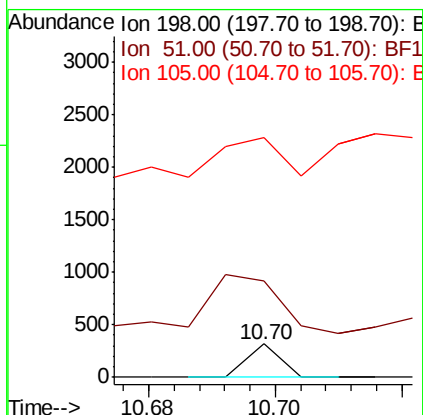
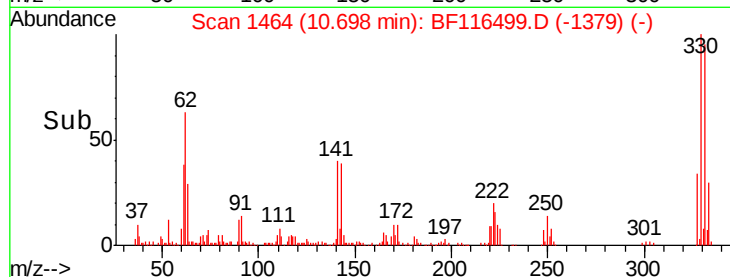
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.107 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.20 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Instrument :
 BNA_F
 ClientSampleId :
 T4-A1-A4-(0-2)

Tgt Ion:198 Resp: 113
 Ion Ratio Lower Upper
 198 100
 51 287.2 30.4 70.4#
 105 715.3 32.8 72.8#

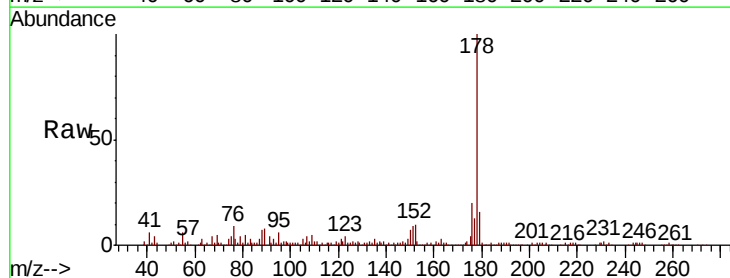


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

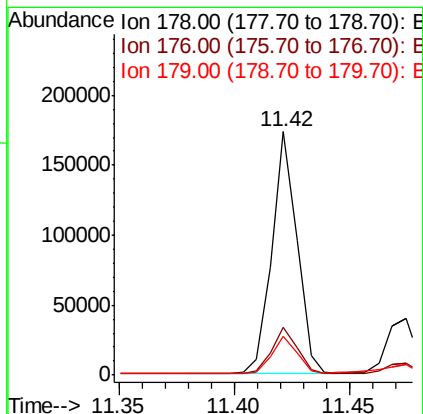
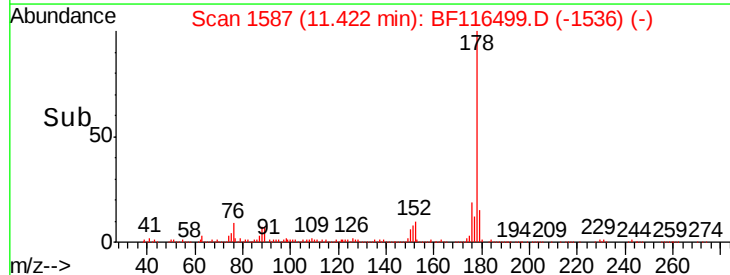


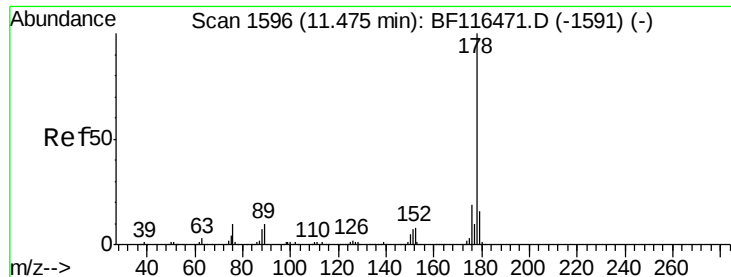
#71
 Phenanthrene
 Concen: 10.310 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Tgt Ion:178 Resp: 130534
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.8 23.6
 179 15.8 12.8 19.2



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

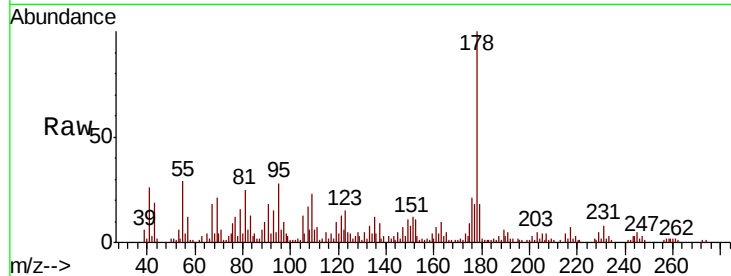




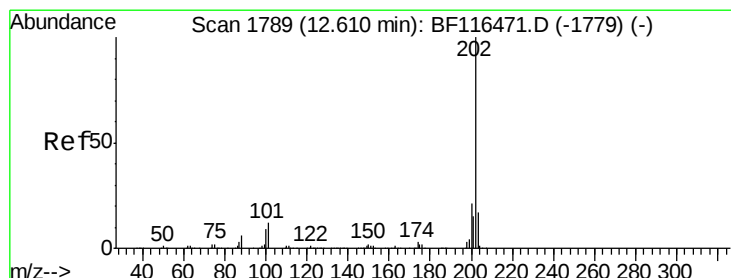
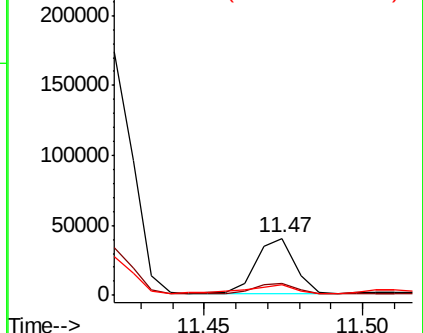
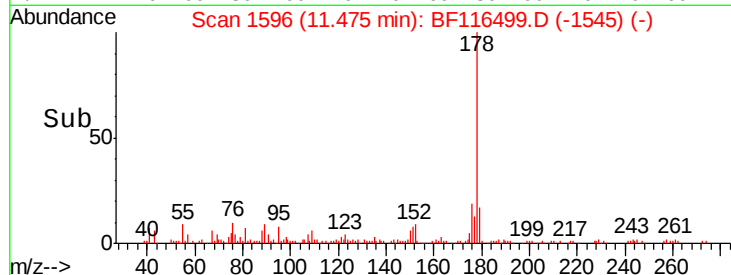
#72
 Anthracene
 Concen: 2.622 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Instrument :
 BNA_F
 ClientSampleId :
 T4-A1-A4-(0-2)

Tgt Ion:178 Resp: 33358
 Ion Ratio Lower Upper
 178 100
 176 21.3 15.2 22.8
 179 17.8 12.5 18.7

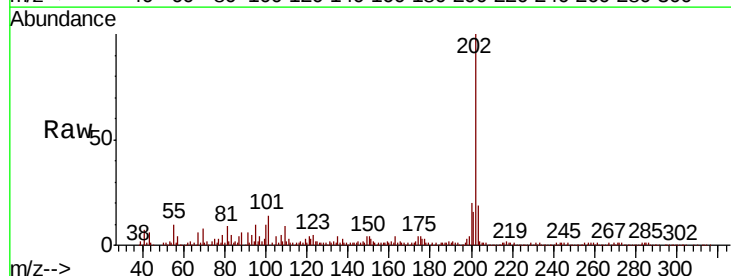


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

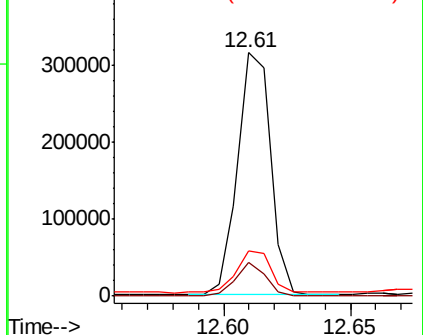
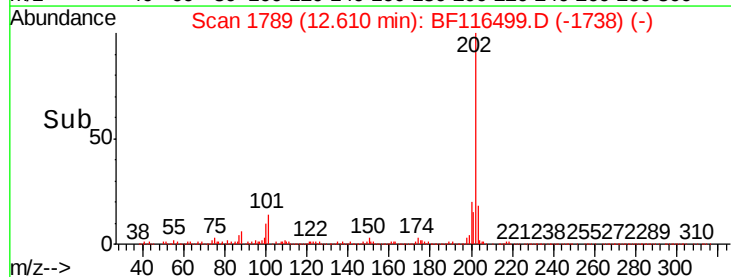


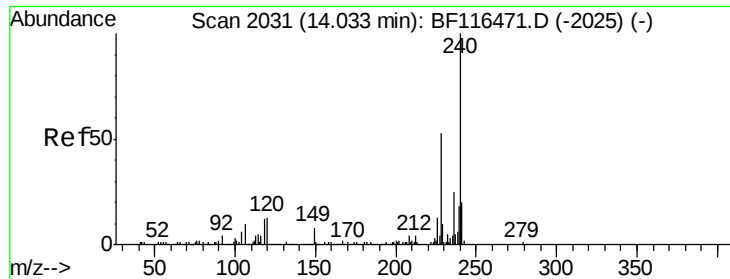
#75
 Fluoranthene
 Concen: 21.815 ng
 RT: 12.61 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Tgt Ion:202 Resp: 285553
 Ion Ratio Lower Upper
 202 100
 101 13.7 0.0 31.5
 203 18.8 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

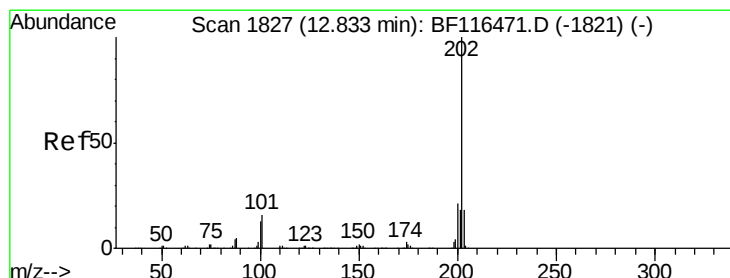
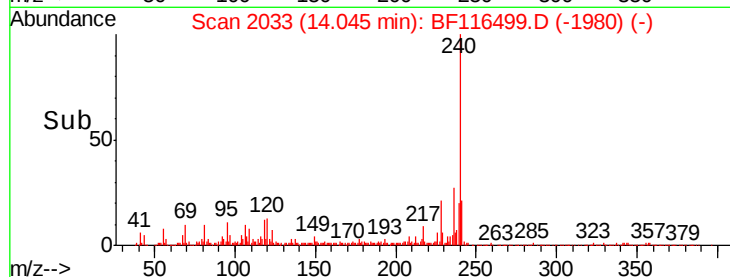
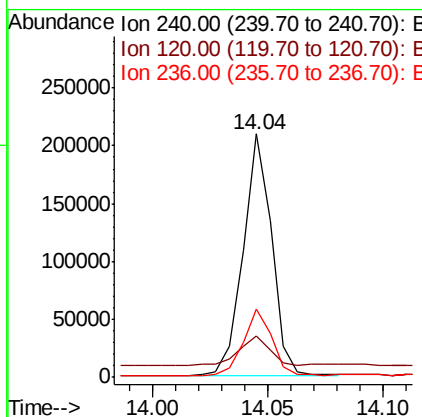
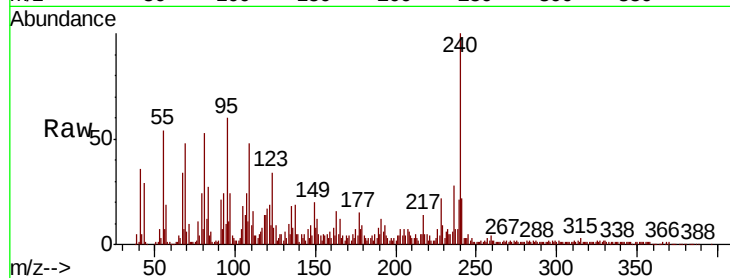




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

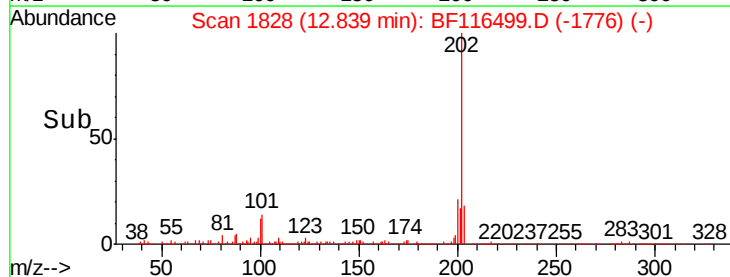
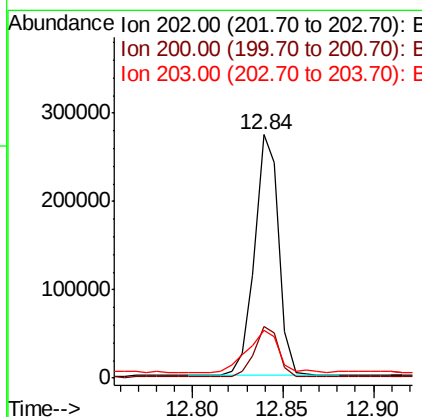
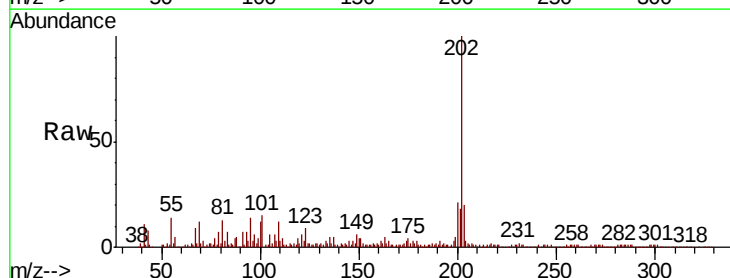
Instrument :
BNA_F
ClientSampleId :
T4-A1-A4-(0-2)

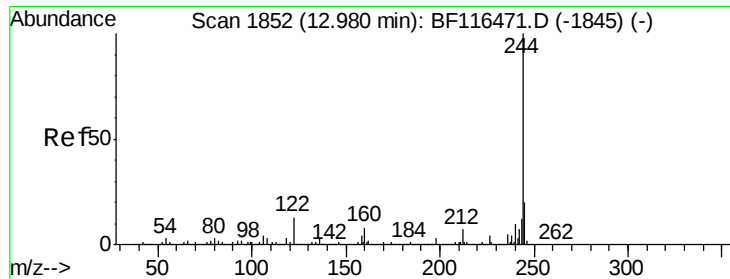
Tgt Ion:240 Resp: 179412
Ion Ratio Lower Upper
240 100
120 16.9 10.5 15.7#
236 27.9 20.2 30.2



#78
Pyrene
Concen: 17.559 ng
RT: 12.84 min Scan# 1828
Delta R.T. 0.01 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Tgt Ion:202 Resp: 251926
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 19.6 14.2 21.4





#79

Terphenyl-d14

Concen: 36.751 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.01 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

Instrument :

BNA_F

ClientSampleId :

T4-A1-A4(0-2)

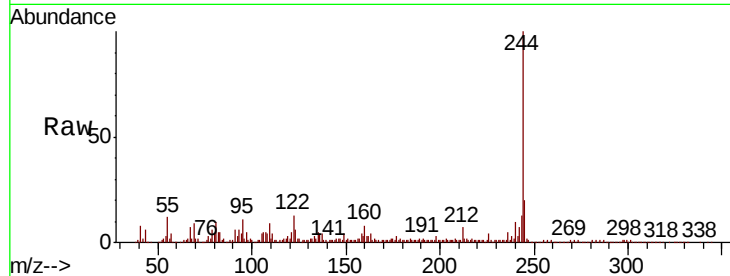
Tgt Ion:244 Resp: 352994

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

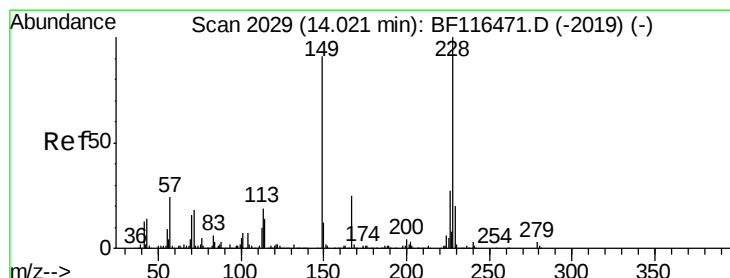
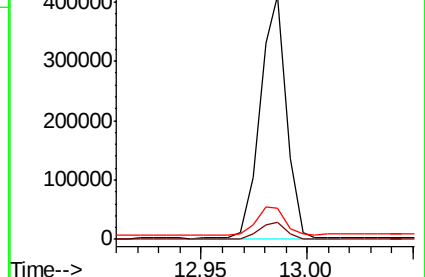
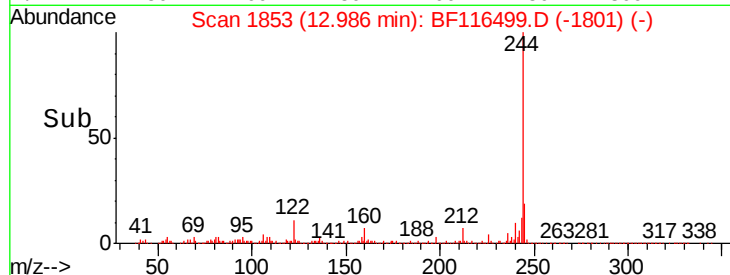
122 12.7 10.2 15.4



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: 13.647 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

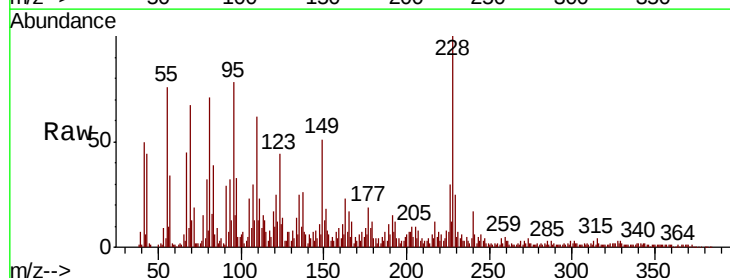
Tgt Ion:228 Resp: 158573

Ion Ratio Lower Upper

228 100

226 29.5 21.8 32.6

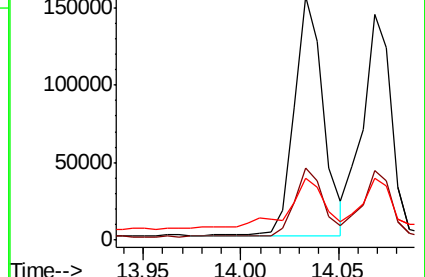
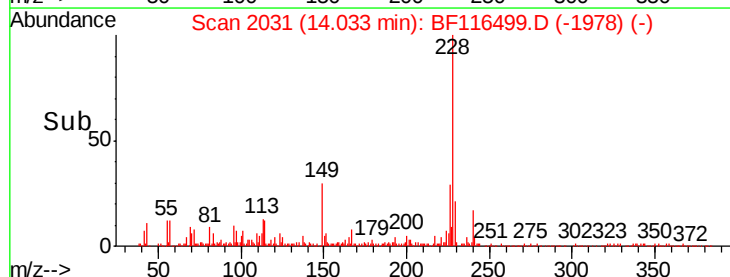
229 25.2 15.9 23.9#

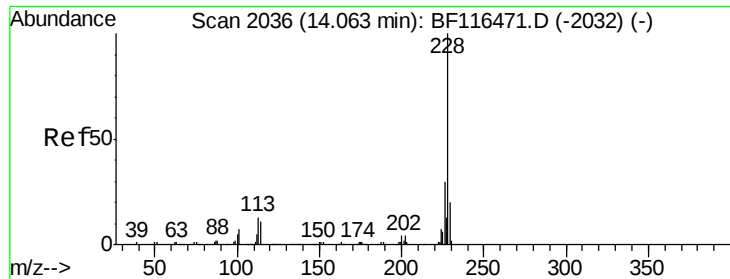


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 12.392 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

Instrument :

BNA_F

ClientSampleId :

T4-A1-A4-(0-2)

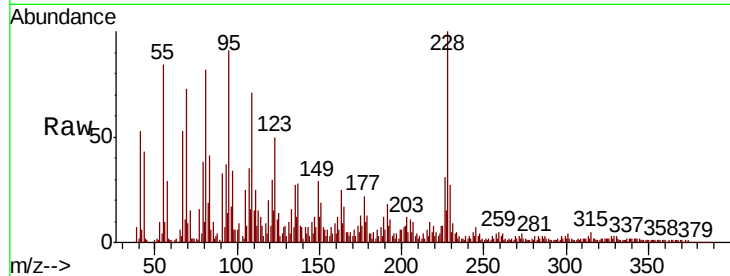
Tgt Ion:228 Resp: 145951

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.2

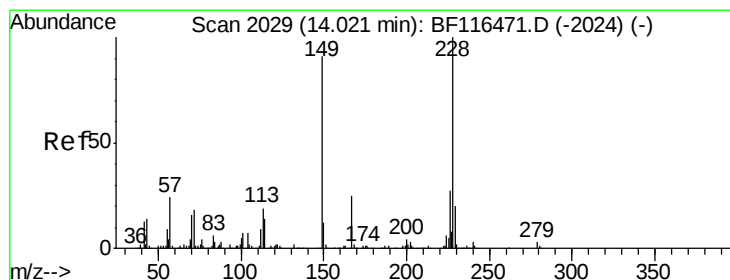
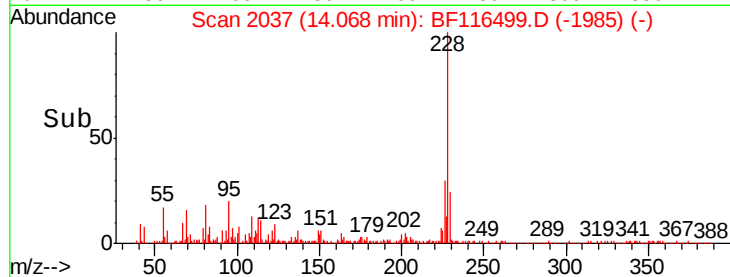
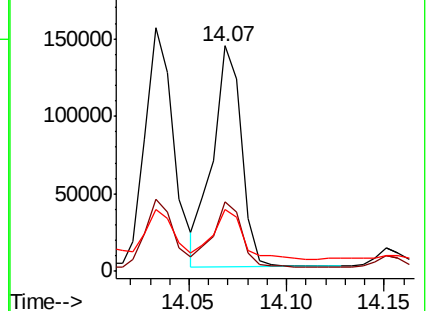
229 27.2 15.8 23.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 5.364 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

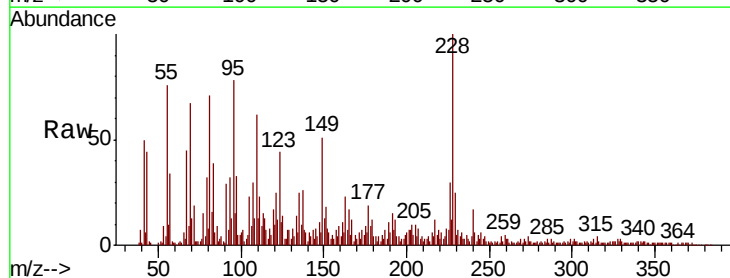
Tgt Ion:149 Resp: 44319

Ion Ratio Lower Upper

149 100

167 23.0 21.8 32.6

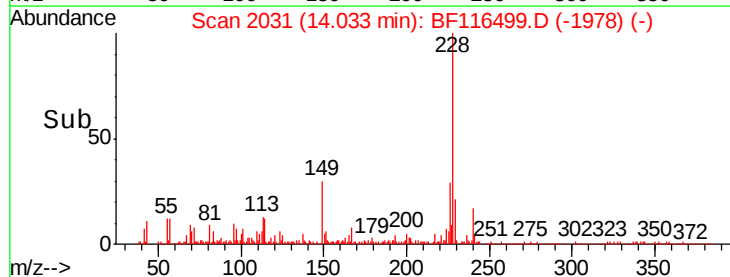
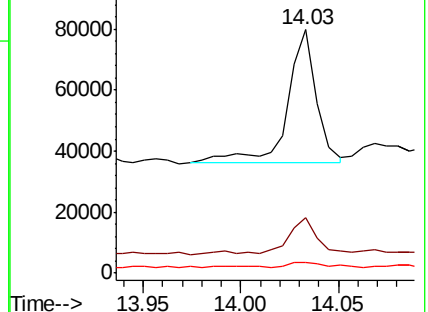
279 4.6 3.0 4.4#

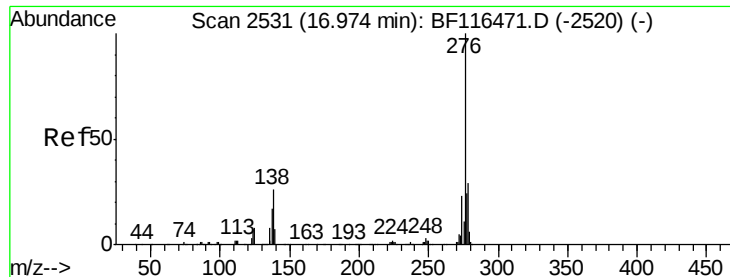


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

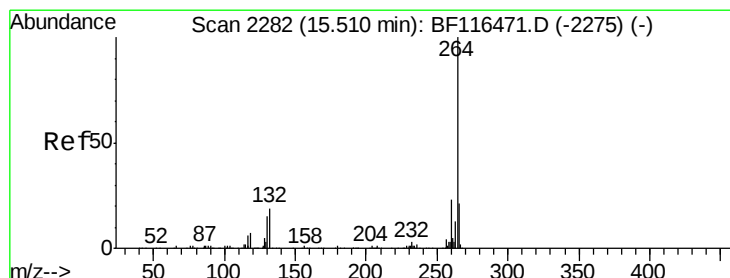
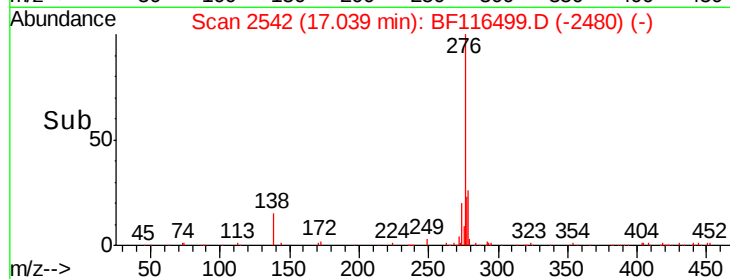
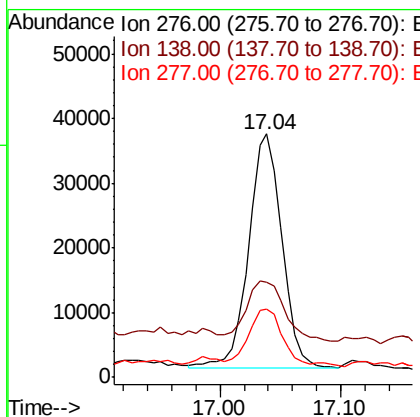
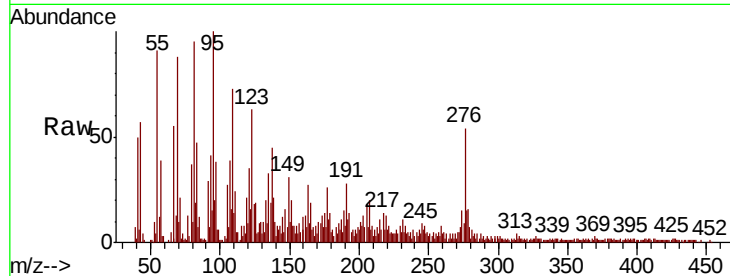




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.886 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.06 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

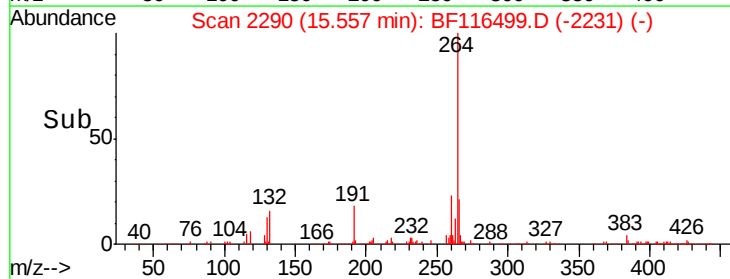
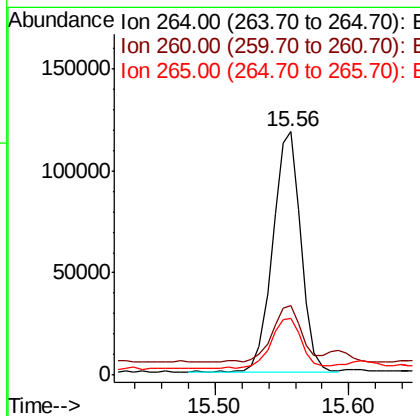
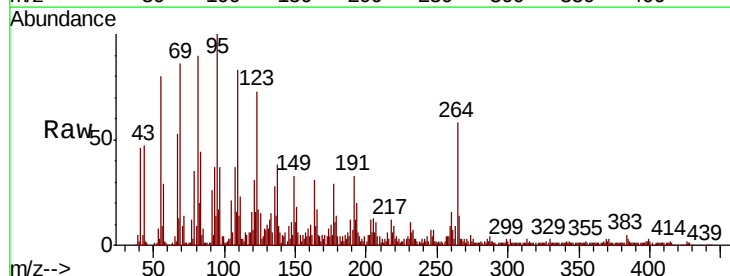
Instrument :
 BNA_F
 ClientSampleId :
 T4-A1-A4-(0-2)

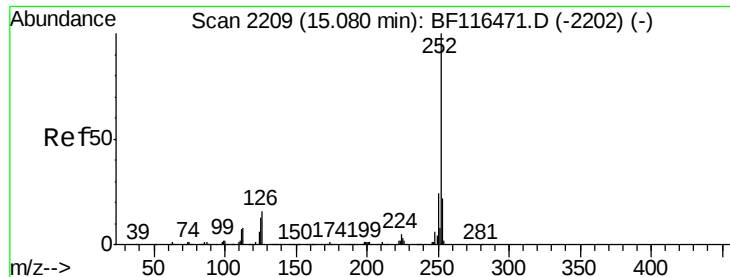
Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.3	22.9	34.3
277	26.2	19.9	29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.56 min Scan# 2290
 Delta R.T. 0.05 min
 Lab File: BF116499.D
 Acq: 24 Aug 2019 1:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.5	18.8	28.2#
265	23.4	17.1	25.7

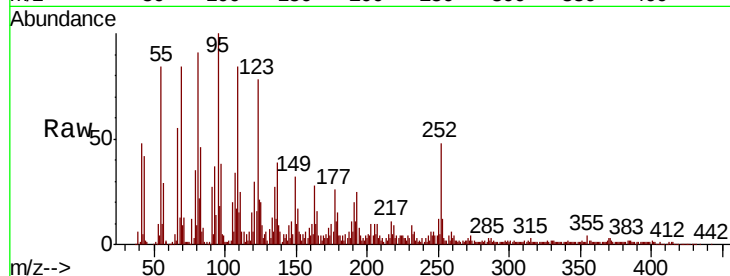




#88
Benzo(b)fluoranthene
Concen: 20.859 ng
RT: 15.11 min Scan# 2214
Delta R.T. 0.03 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Instrument :
BNA_F
ClientSampleId :
T4-A1-A4-(0-2)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.5	26.3
125	42.3	10.1	15.1#

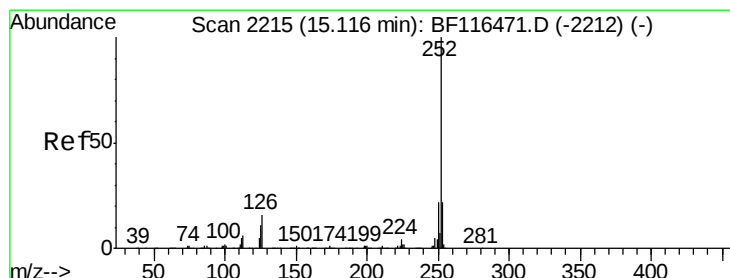
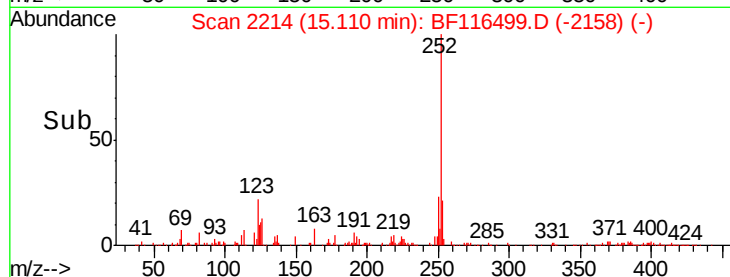
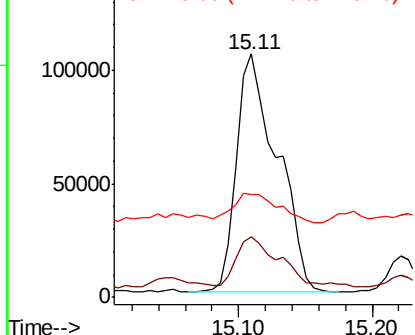


Abundance

Ion 252.00 (251.70 to 252.70): E

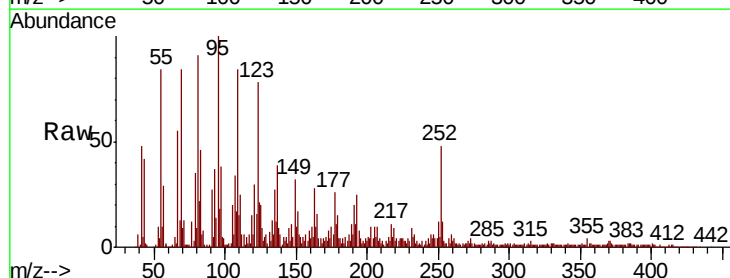
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 23.025 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.4	26.2
125	42.3	9.1	13.7#

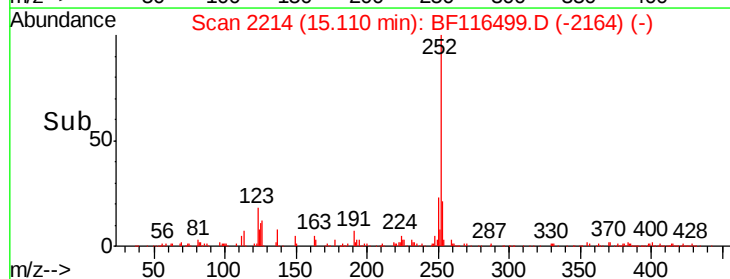
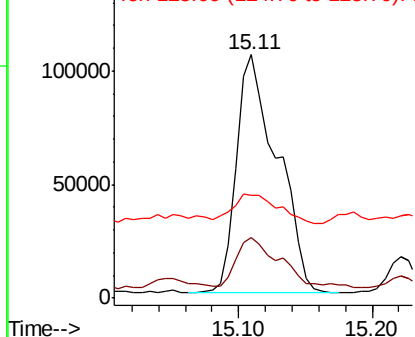


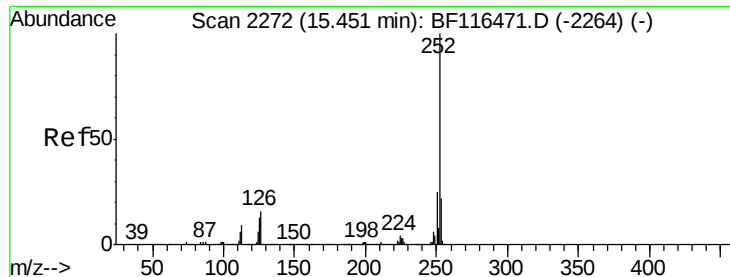
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

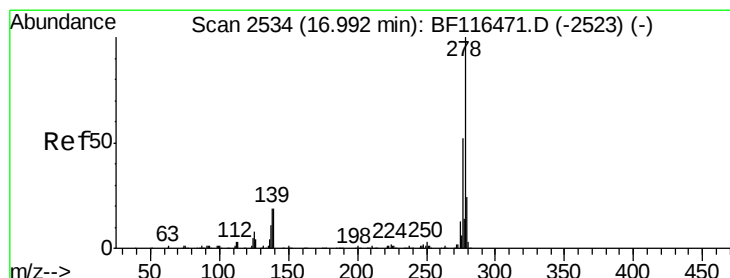
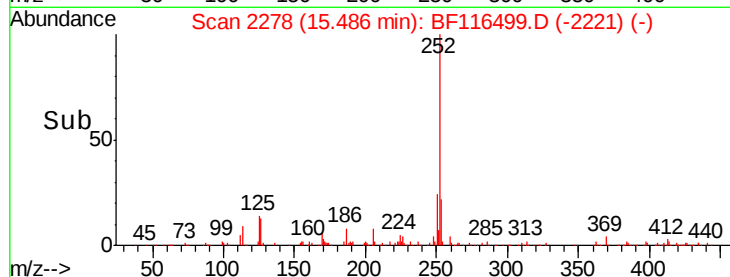
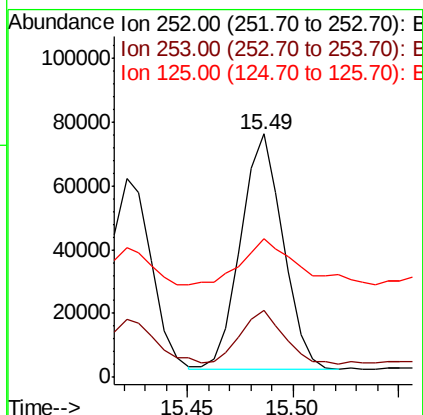
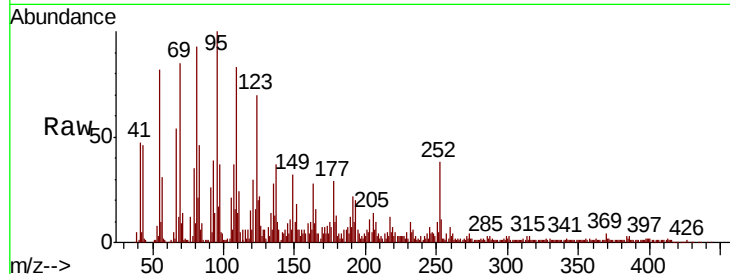




#90
Benzo(a)pyrene
Concen: 10.851 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.04 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

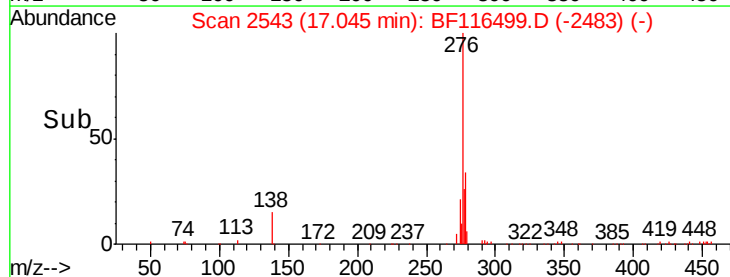
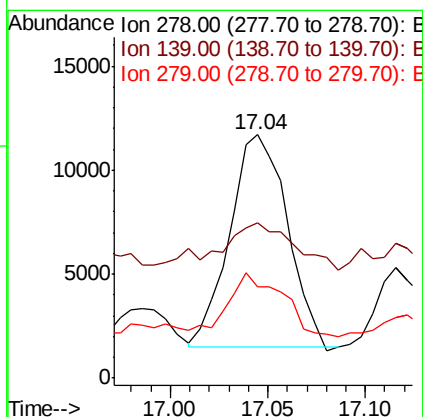
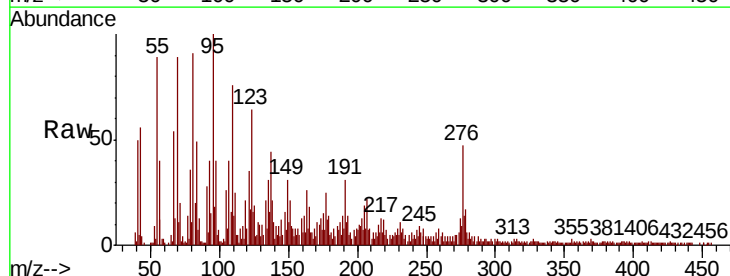
Instrument :
BNA_F
ClientSampleId :
T4-A1-A4-(0-2)

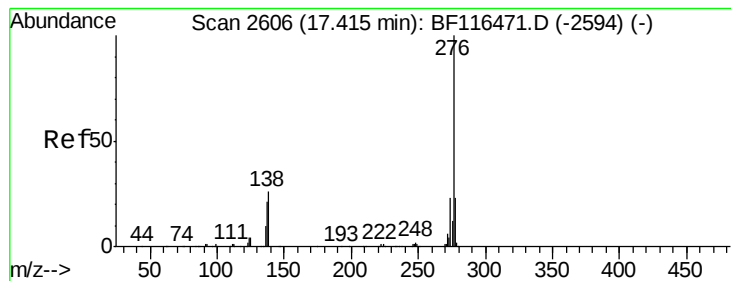
Tgt Ion: 252 Resp: 102830
Ion Ratio Lower Upper
252 100
253 27.7 17.2 25.8#
125 56.9 10.2 15.4#



#91
Dibenzo(a,h)anthracene
Concen: 2.660 ng
RT: 17.04 min Scan# 2543
Delta R.T. 0.05 min
Lab File: BF116499.D
Acq: 24 Aug 2019 1:21

Tgt Ion: 278 Resp: 20717
Ion Ratio Lower Upper
278 100
139 63.9 15.3 22.9#
279 37.7 19.0 28.6#





#92

Benzo(g,h,i)perylene

Concen: 8.842 ng

RT: 17.48 min Scan# 2617

Delta R.T. 0.06 min

Lab File: BF116499.D

Acq: 24 Aug 2019 1:21

Instrument :

BNA_F

ClientSampleId :

T4-A1-A4-(0-2)

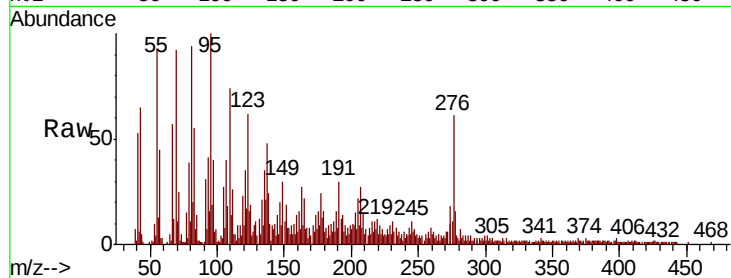
Tgt Ion: 276 Resp: 65643

Ion Ratio Lower Upper

276 100

277 25.6 18.7 28.1

138 39.3 20.8 31.2#



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

