

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100219\
 Data File : BF117298.D
 Acq On : 2 Oct 2019 14:38
 Operator : JU
 Sample : K5137-03
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 03 01:30:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	26779	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	109196	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	56726	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	91072	20.00	ng	0.00
76) Chrysene-d12	13.97	240	73326	20.00	ng	0.00
87) Perylene-d12	15.43	264	61244	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	144560	84.28	ng	-0.01
7) Phenol-d6	6.45	99	199612	90.05	ng	-0.01
23) Nitrobenzene-d5	7.37	82	114513	55.10	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	38026	80.21	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	202212	55.74	ng	-0.01
79) Terphenyl-d14	12.91	244	198687	50.65	ng	0.00

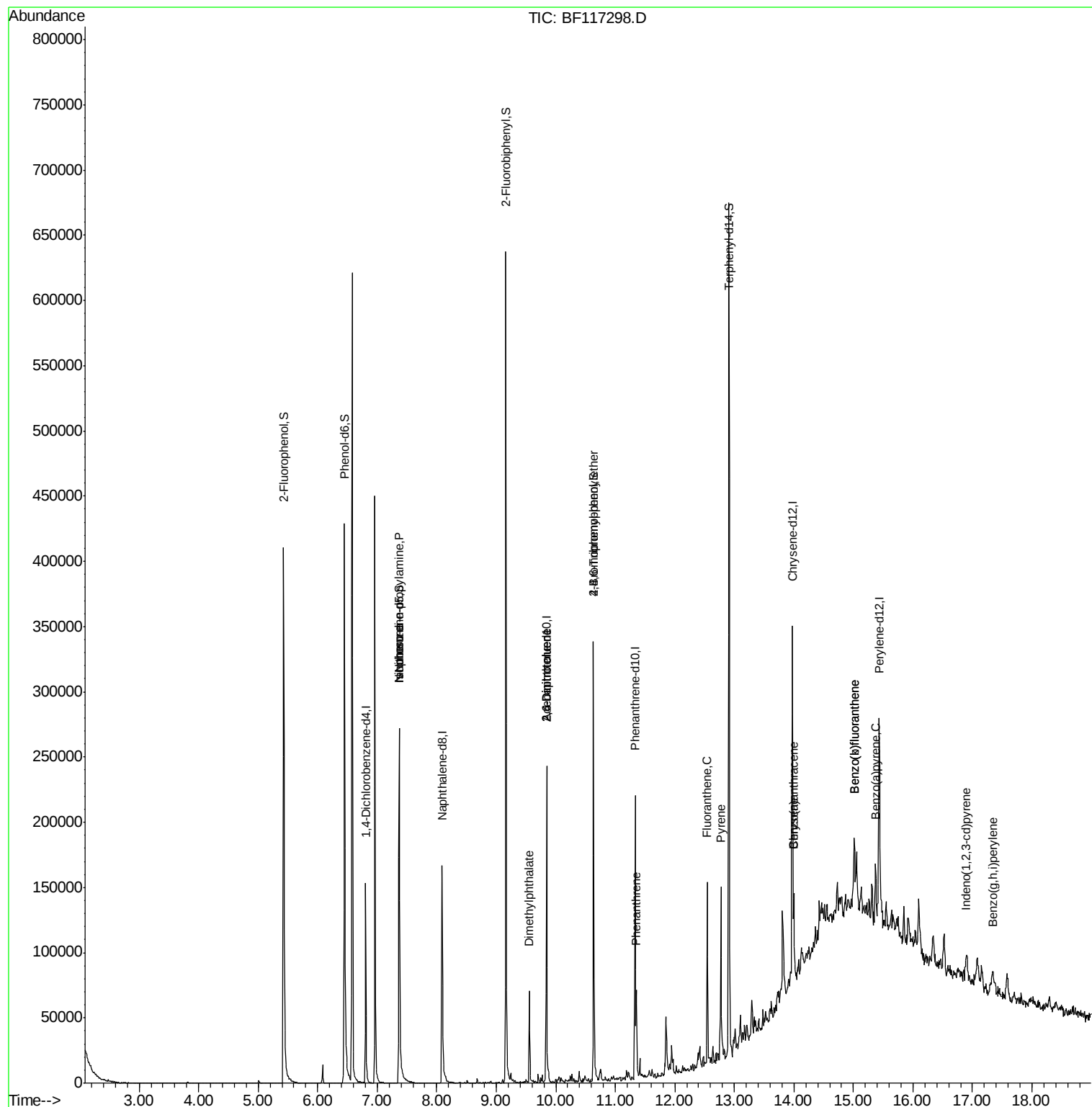
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.58	77	3836	Below Cal		# 77
19) n-Nitroso-di-n-propylamine	7.37	70	15437	11.436	ng	# 80
25) Isophorone	7.37	82	114512	31.120	ng	# 66
50) Dimethylphthalate	9.56	163	29466	7.336	ng	99
51) 2,6-Dinitrotoluene	9.84	165	7489	9.155	ng	# 24
57) 2,4-Dinitrotoluene	9.84	165	7489	7.053	ng	# 18
67) 4-Bromophenyl-phenylether	10.63	248	2445	2.629	ng	# 1
71) Phenanthrene	11.35	178	25068	4.846	ng	98
75) Fluoranthene	12.55	202	55187	10.383	ng	98
78) Pyrene	12.77	202	52309	8.502	ng	96
81) Benzo(a)anthracene	14.00	228	25446	5.194	ng	95
83) Chrysene	14.00	228	25446	5.326	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	9709	2.785	ng	# 87
88) Benzo(b)fluoranthene	15.02	252	36456	9.827	ng	# 81
89) Benzo(k)fluoranthene	15.02	252	36456	10.374	ng	# 81
90) Benzo(a)pyrene	15.37	252	17583	5.401	ng	# 92
92) Benzo(a,h,i)perylene	17.33	276	9492	3.673	ng	# 93

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

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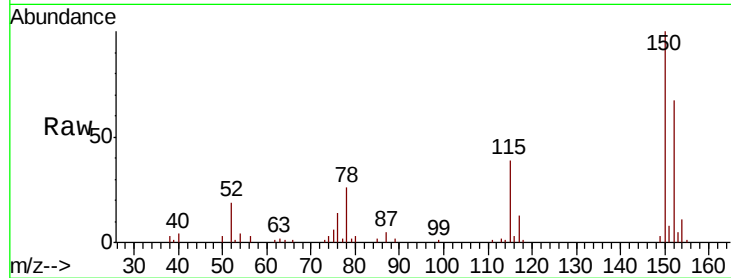


#1

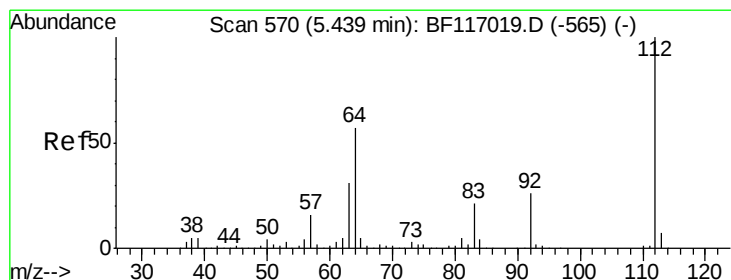
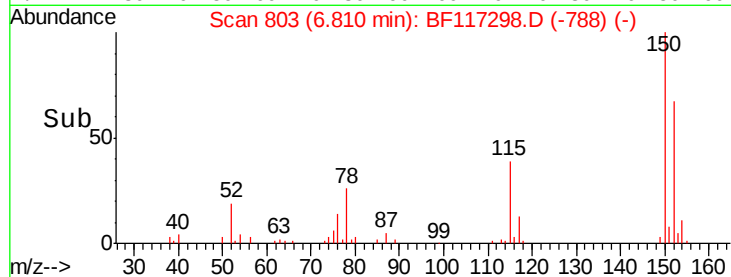
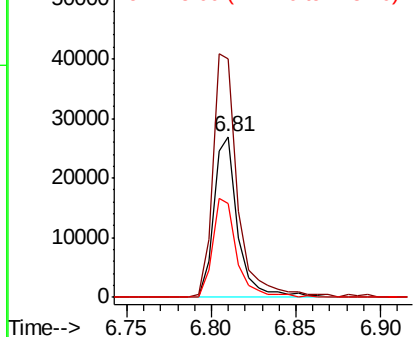
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 26779
Ion Ratio Lower Upper
152 100
150 148.6 127.5 191.3
115 58.6 55.0 82.4



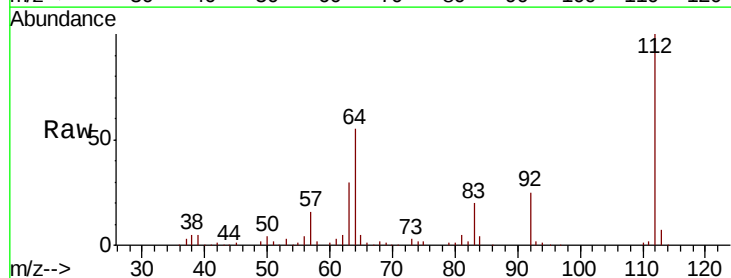
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



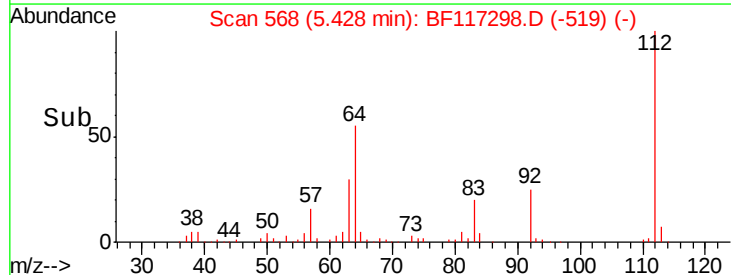
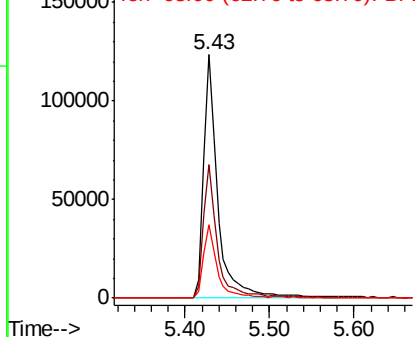
#5

2-Fluorophenol
Concen: 84.280 ng
RT: 5.43 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion:112 Resp: 144560
Ion Ratio Lower Upper
112 100
64 54.7 45.7 68.5
63 30.1 24.9 37.3



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: 90.049 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Instrument :

BNA_F

ClientSampleId :

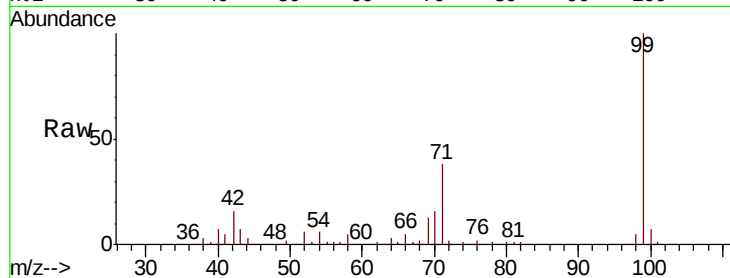
Tot Ion: 99 Resp: 199612

Ion Ratio Lower Upper

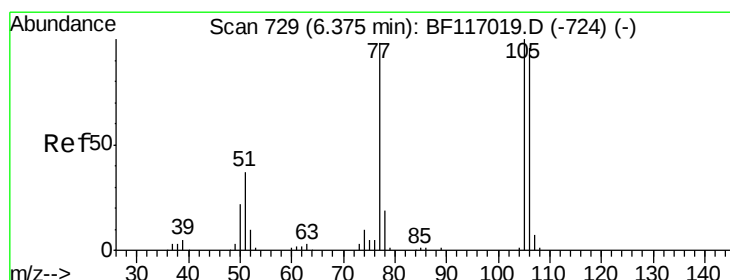
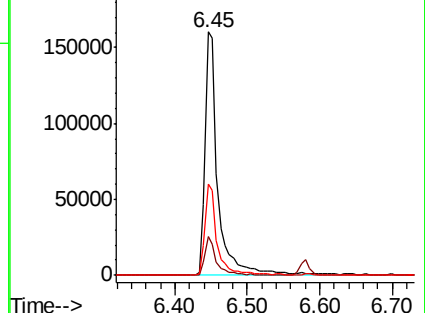
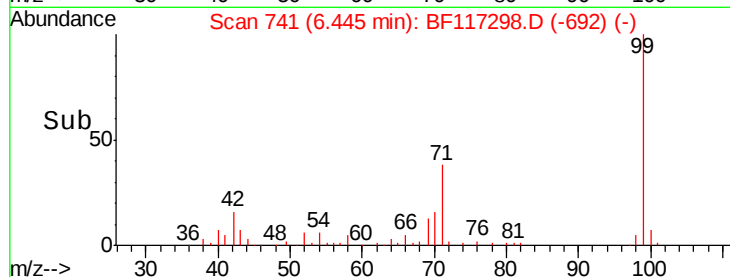
99 100

42 16.0 12.2 18.2

71 37.6 29.8 44.8



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.58 min Scan# 764

Delta R.T. 0.21 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

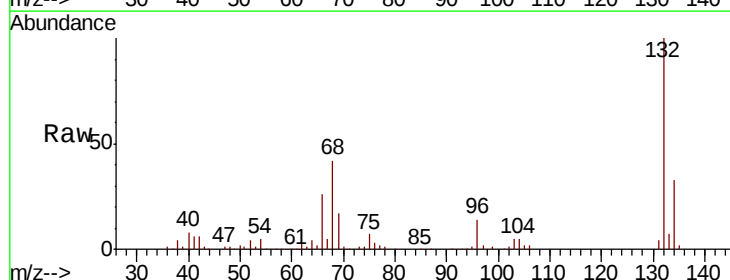
Tgt Ion: 77 Resp: 3836

Ion Ratio Lower Upper

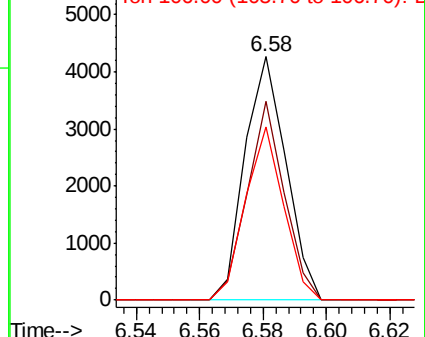
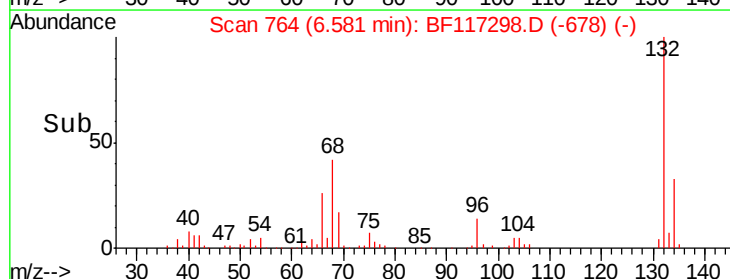
77 100

105 81.7 81.8 121.8#

106 71.3 77.3 117.3#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 11.436 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.13 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 15437

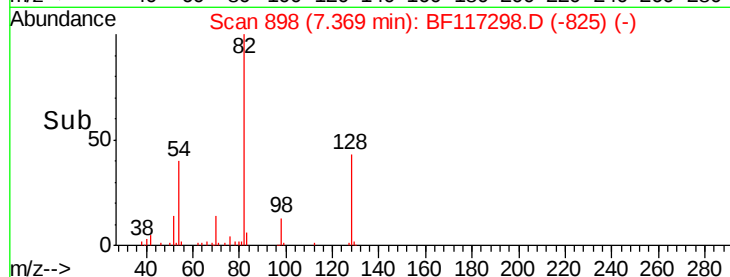
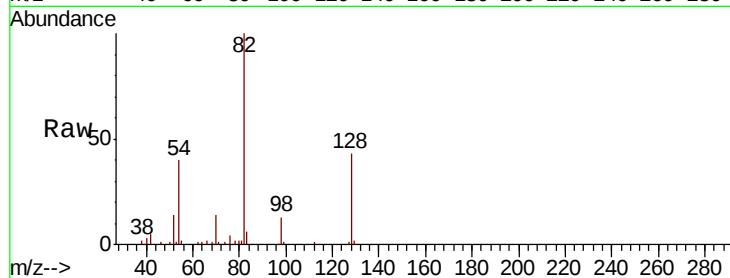
Ion Ratio Lower Upper

70 100

42 37.6 34.0 51.0

101 0.0 7.8 11.6#

130 3.1 17.8 26.8#

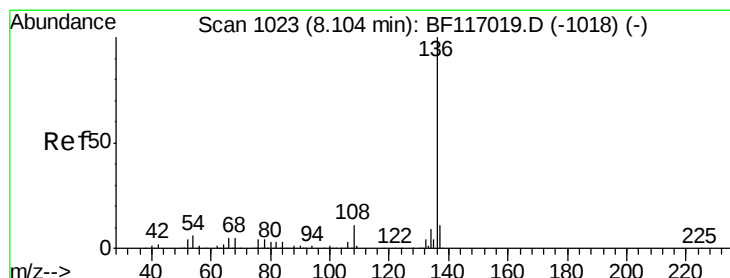
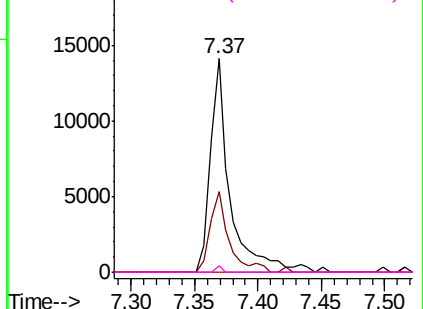


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Tgt Ion: 136 Resp: 109196

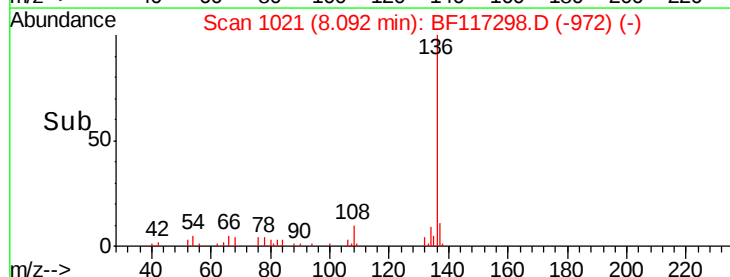
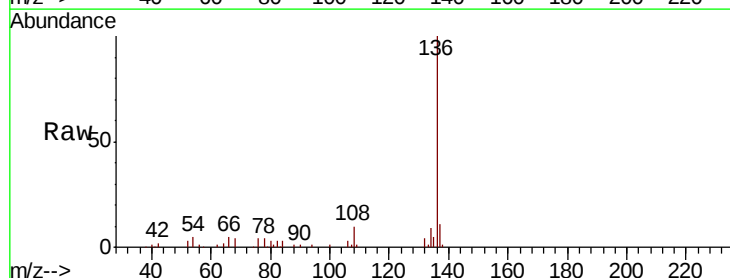
Ion Ratio Lower Upper

136 100

137 10.5 9.0 13.4

54 5.0 4.5 6.7

68 4.3 4.0 6.0

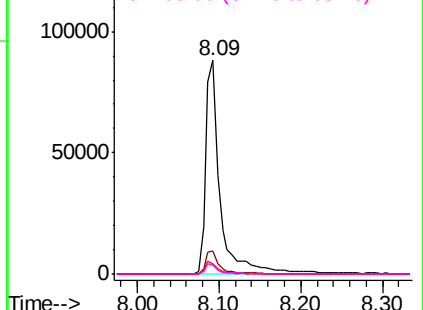


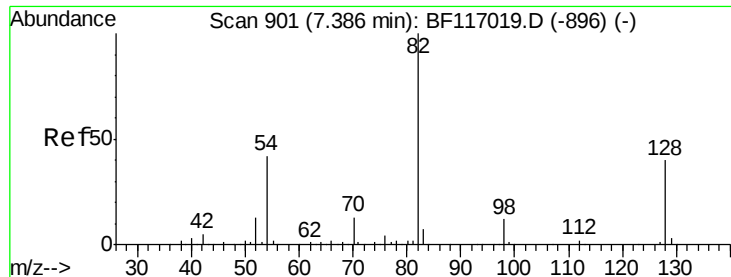
Abundance Ion 136.00 (135.70 to 136.70): E

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

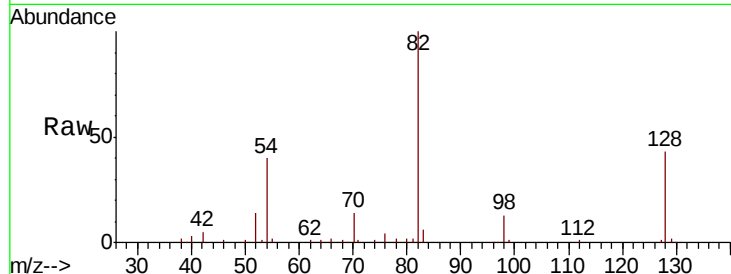




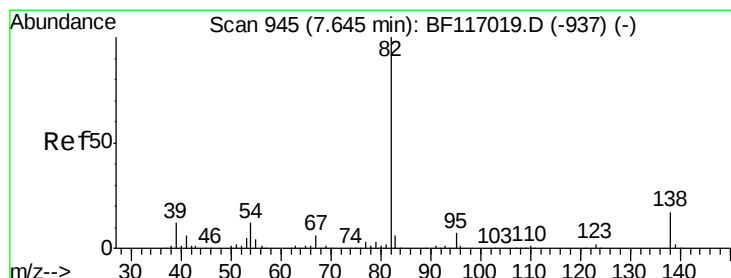
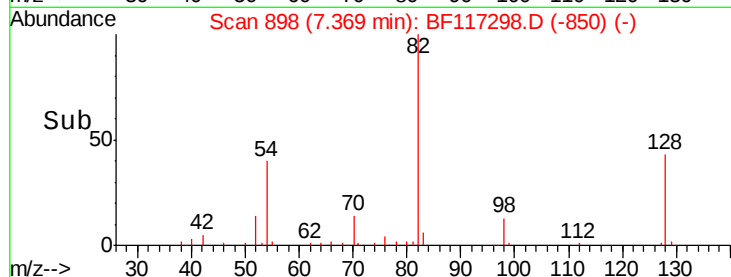
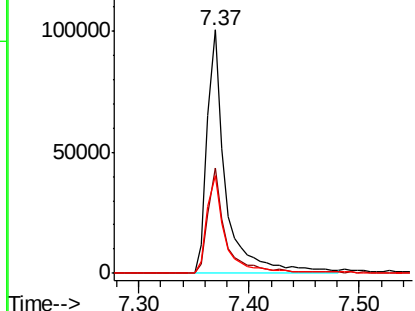
#23
Nitrobenzene-d5
Concen: 55.101 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.02 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	114513
Ion Ratio	100	Lower	Upper
128	43.4	32.3	48.5
54	40.3	33.3	49.9

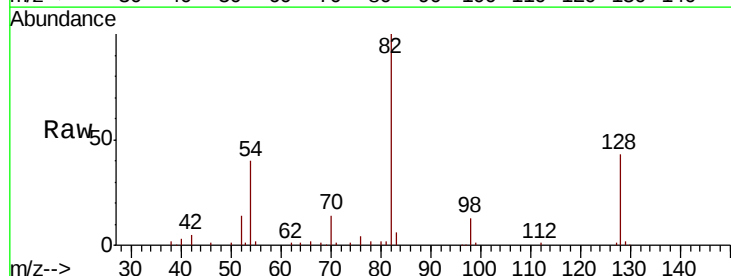


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

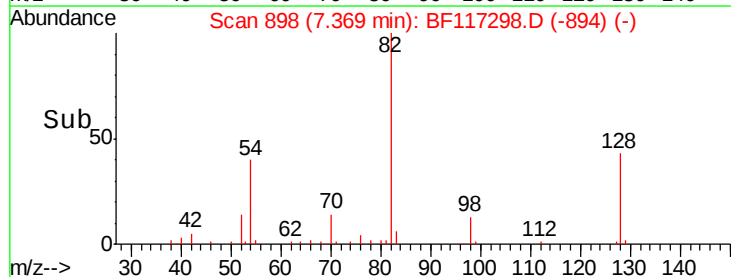
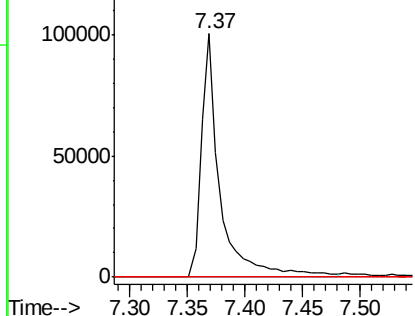


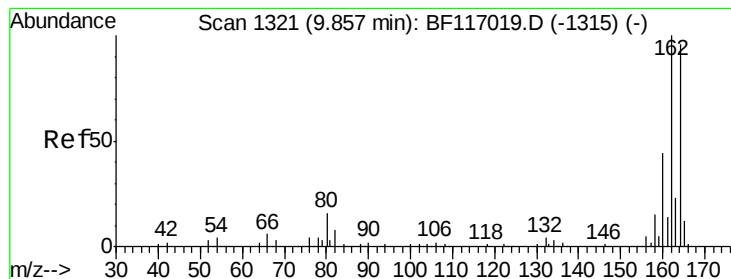
#25
Isophorone
Concen: 31.120 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.28 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion	82	Resp	114512
Ion Ratio	100	Lower	Upper
95	0.0	5.8	8.6#
138	0.0	13.5	20.3#



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: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Instrument :

BNA_F

ClientSampleId :

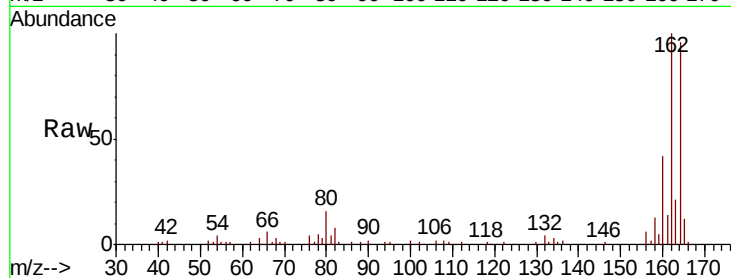
Tot Ion:164 Resp: 56726

Ion Ratio Lower Upper

164 100

162 103.8 83.4 125.2

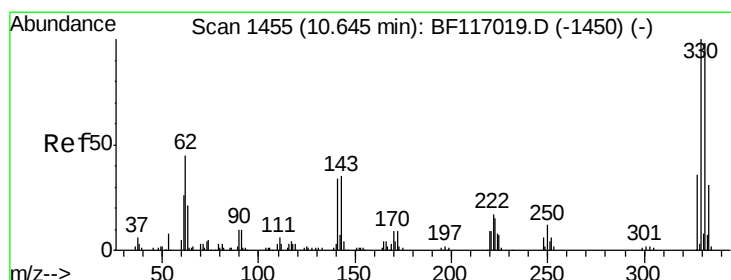
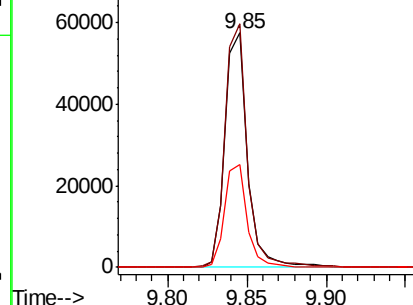
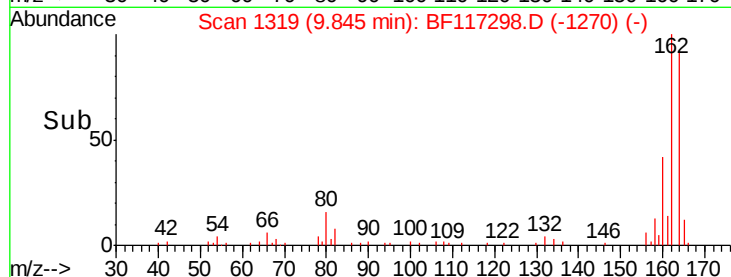
160 43.8 36.4 54.6



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: 80.207 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

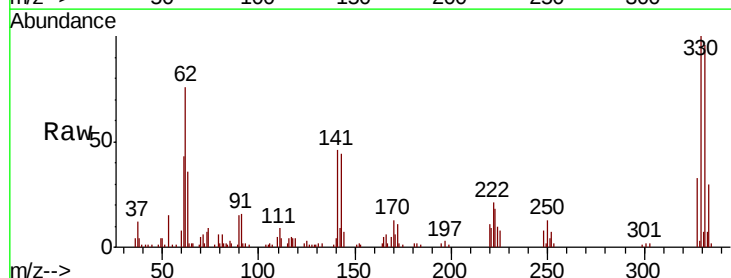
Tgt Ion:330 Resp: 38026

Ion Ratio Lower Upper

330 100

332 95.6 78.0 117.0

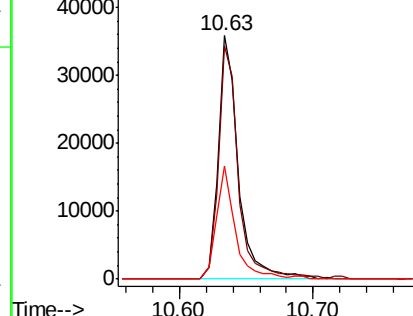
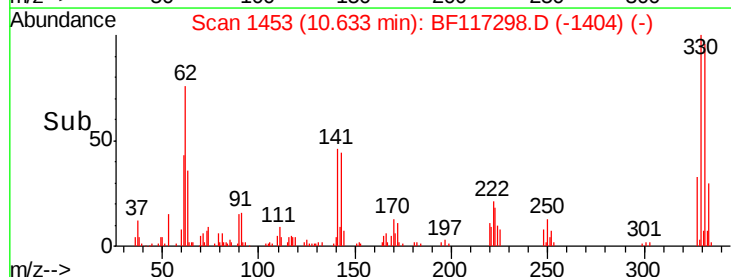
141 43.9 35.8 53.6

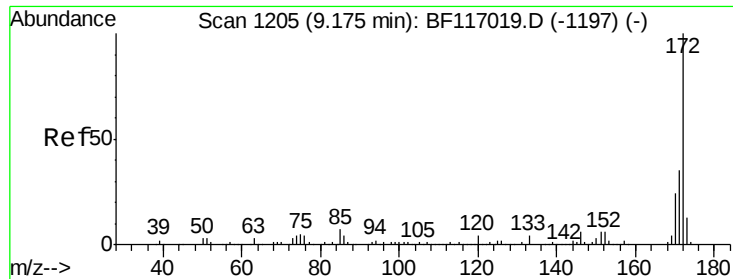


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

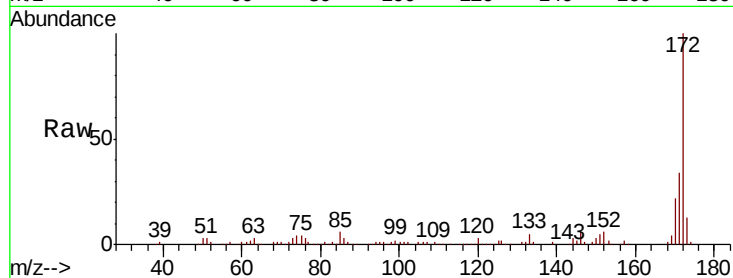




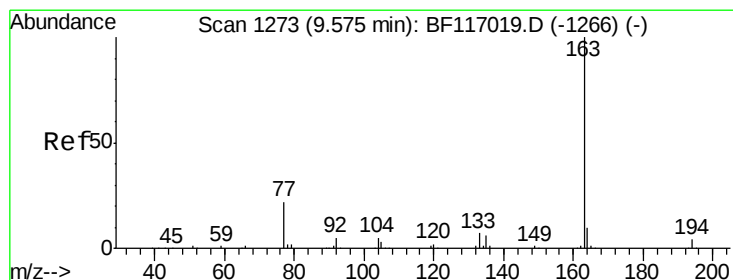
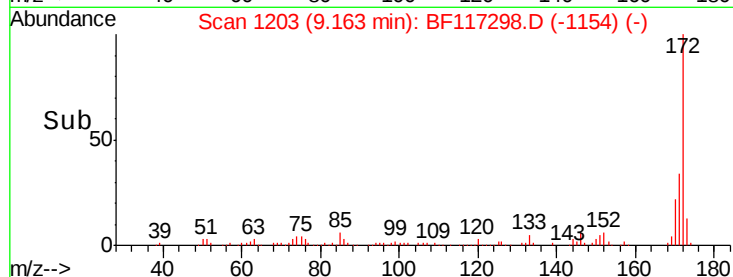
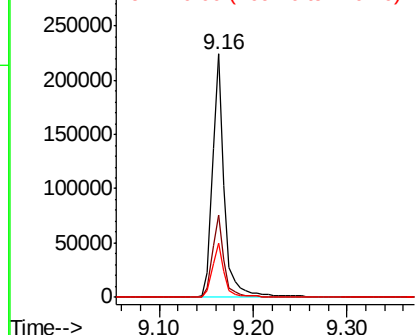
#45
2-Fluorobiphenyl
Concen: 55.737 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 202212
Ion Ratio Lower Upper
172 100
171 34.0 28.2 42.2
170 22.3 18.9 28.3

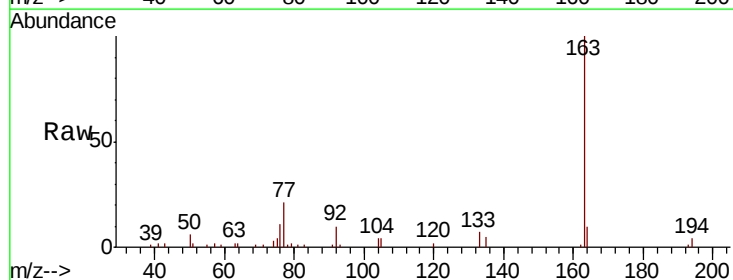


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

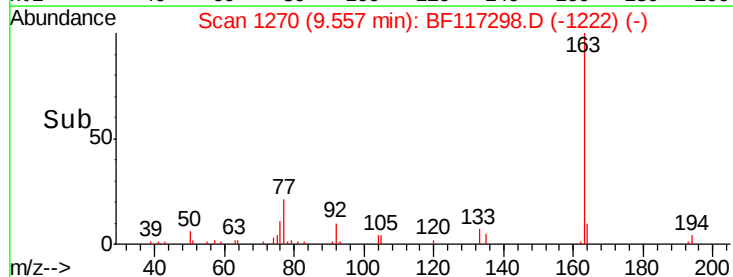
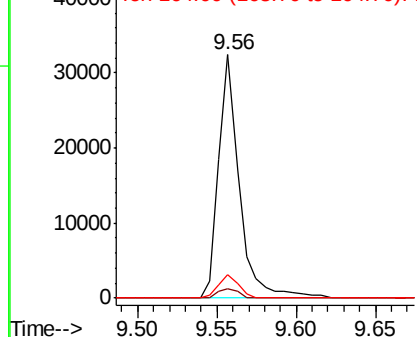


#50
Dimethylphthalate
Concen: 7.336 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion:163 Resp: 29466
Ion Ratio Lower Upper
163 100
194 3.8 2.9 4.3
164 9.8 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: 9.155 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.20 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Instrument :
BNA_F
ClientSampleId :

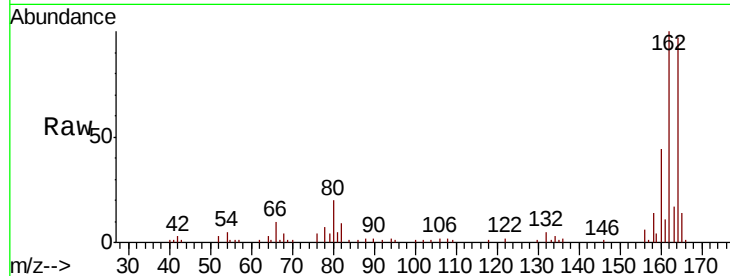
Tot Ion:165 Resp: 7489

Ion Ratio Lower Upper

165 100

63 0.0 41.8 62.8#

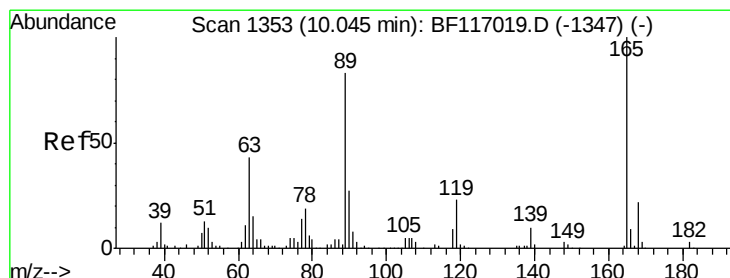
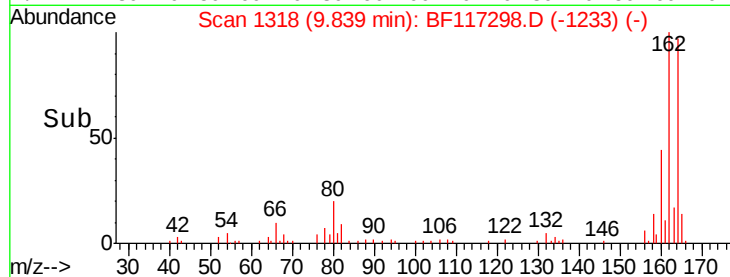
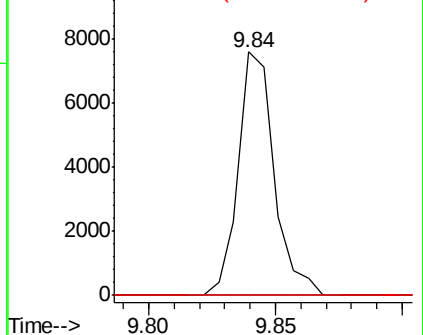
89 0.0 46.5 69.7#



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: 7.053 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.21 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Tgt Ion:165 Resp: 7489

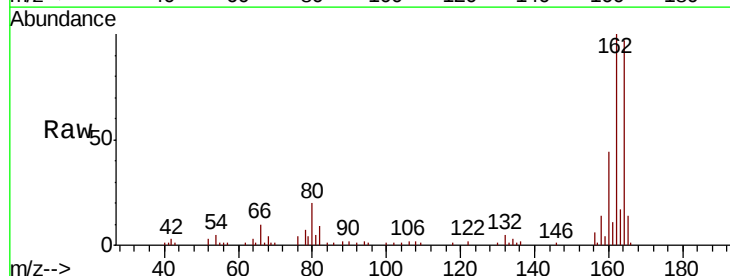
Ion Ratio Lower Upper

165 100

63 0.0 35.0 52.4#

89 0.0 66.1 99.1#

182 0.0 2.0 3.0#

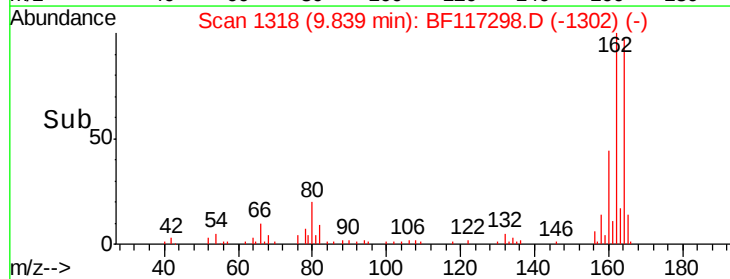
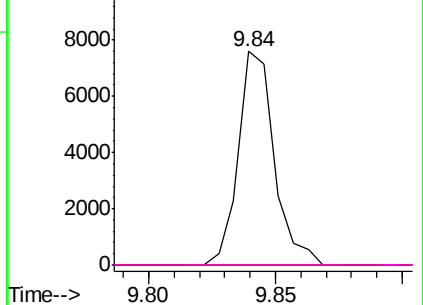


Abundance Ion 165.00 (164.70 to 165.70): E

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

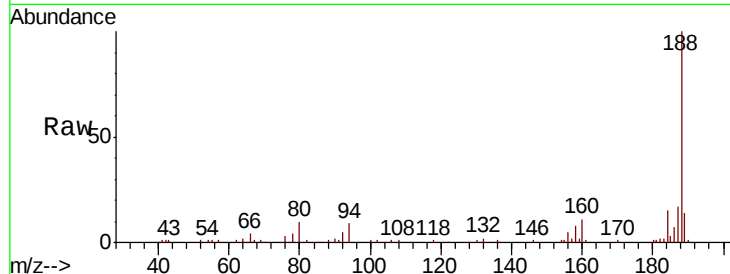




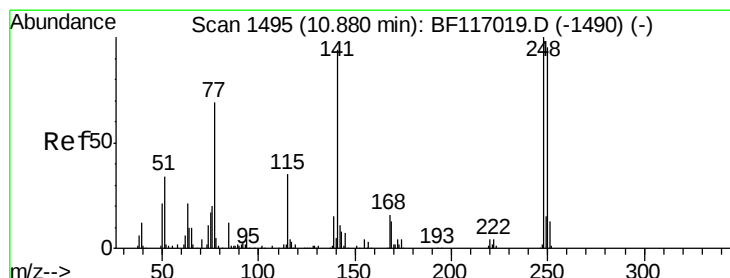
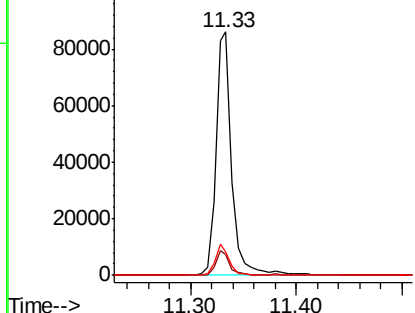
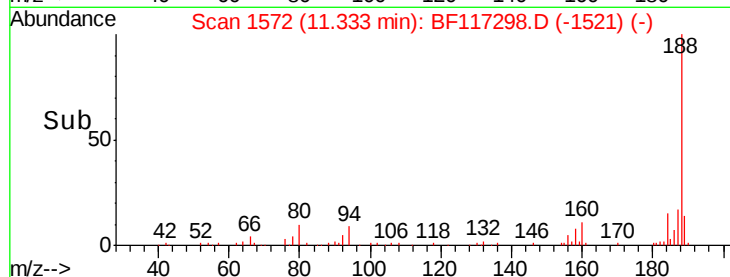
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BF117298.D
 Acq: 2 Oct 2019 14:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 91072
 Ion Ratio Lower Upper
 188 100
 94 8.8 8.2 12.2
 80 9.8 9.0 13.6

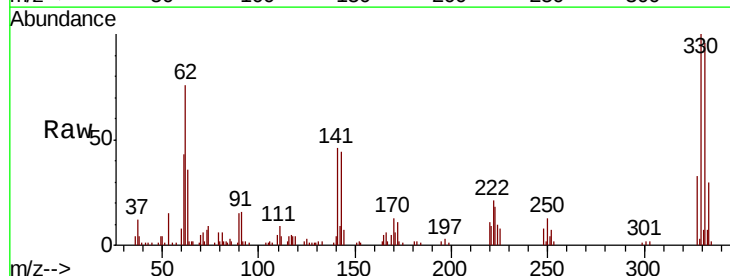


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

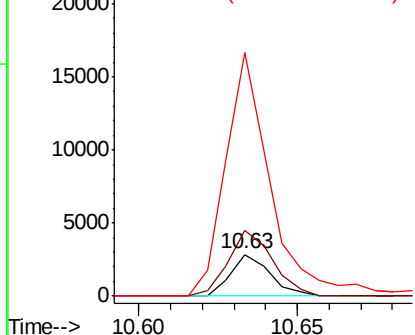
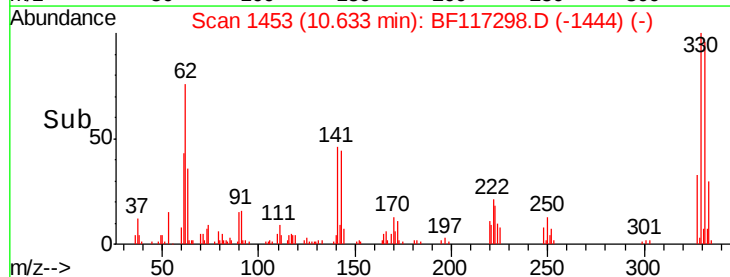


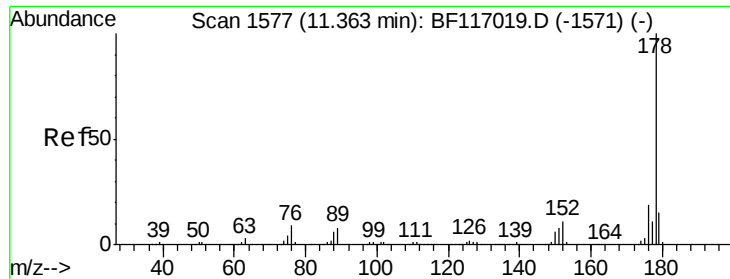
#67
 4-Bromophenyl-phenylether
 Concen: 2.629 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.25 min
 Lab File: BF117298.D
 Acq: 2 Oct 2019 14:38

Tgt Ion:248 Resp: 2445
 Ion Ratio Lower Upper
 248 100
 250 156.0 76.2 114.4#
 141 579.7 75.0 112.4#



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

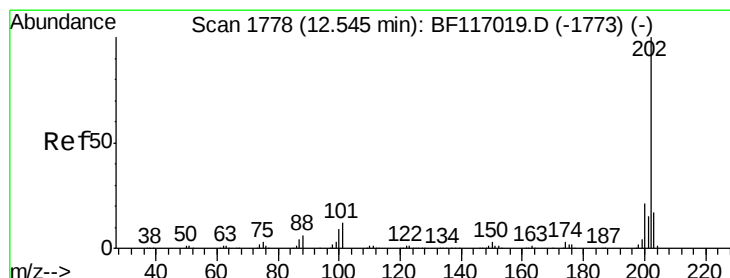
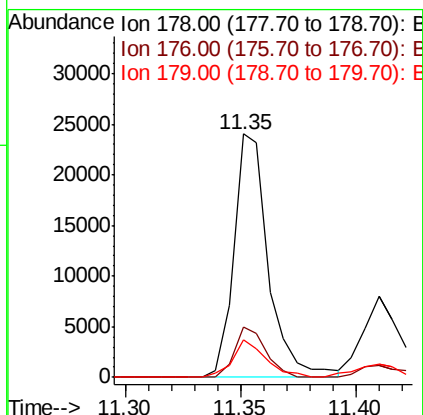
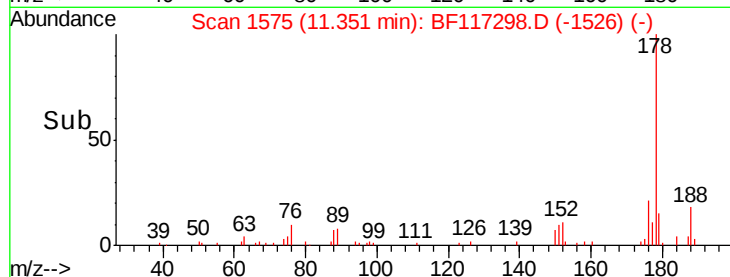
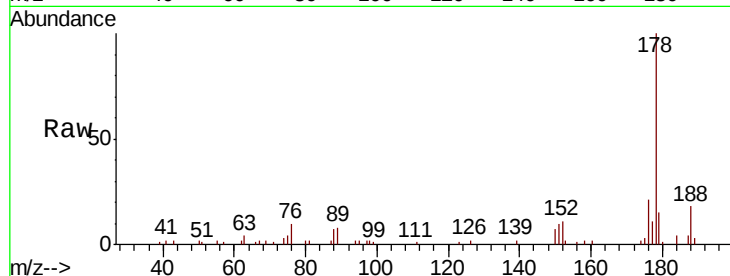




#71
Phenanthrene
Concen: 4.846 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

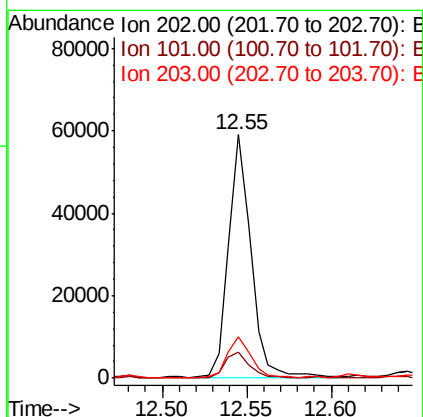
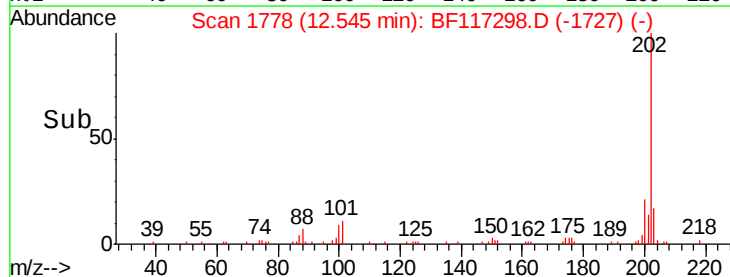
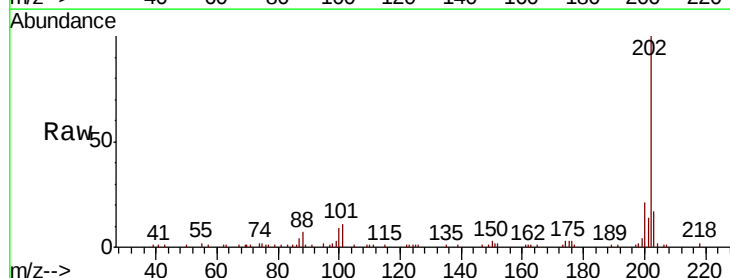
Instrument :
BNA_F
ClientSampleId :

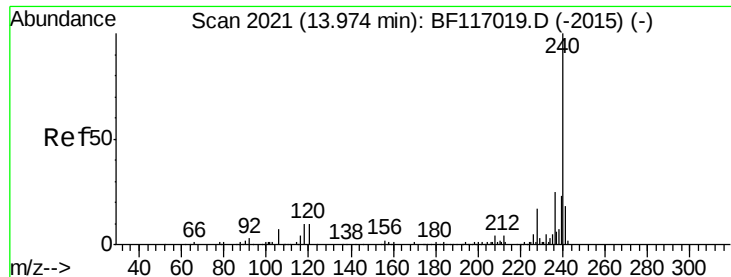
Tot Ion:178 Resp: 25068
Ion Ratio Lower Upper
178 100
176 20.8 15.4 23.2
179 15.2 12.4 18.6



#75
Fluoranthene
Concen: 10.383 ng
RT: 12.55 min Scan# 1778
Delta R.T. 0.00 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion:202 Resp: 55187
Ion Ratio Lower Upper
202 100
101 10.8 0.0 32.3
203 17.1 0.0 37.1

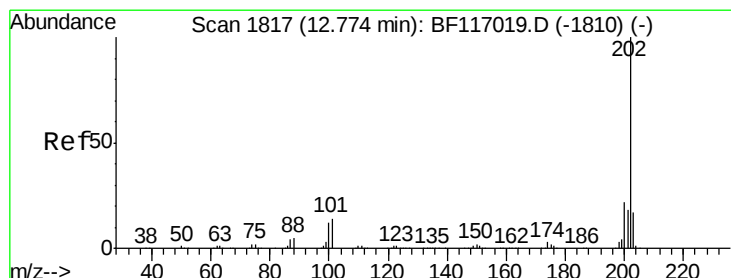
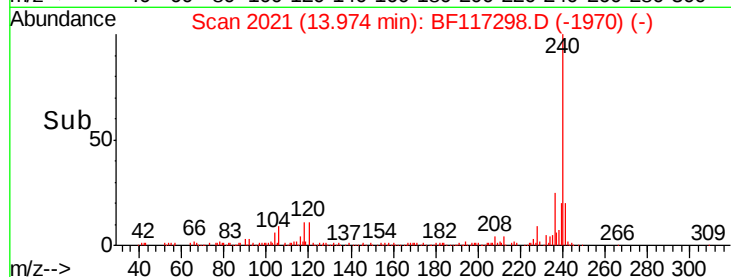
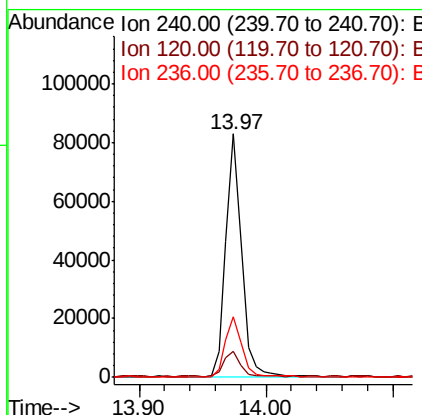
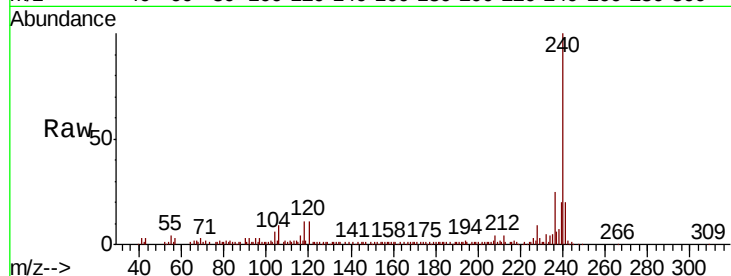




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

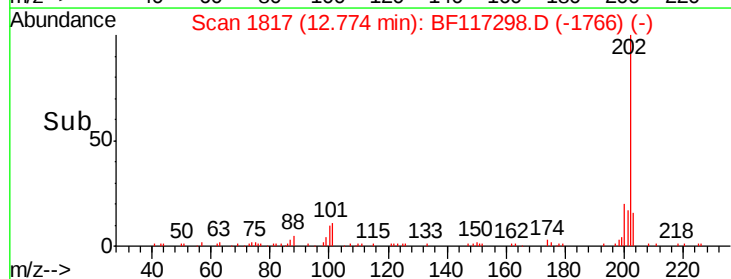
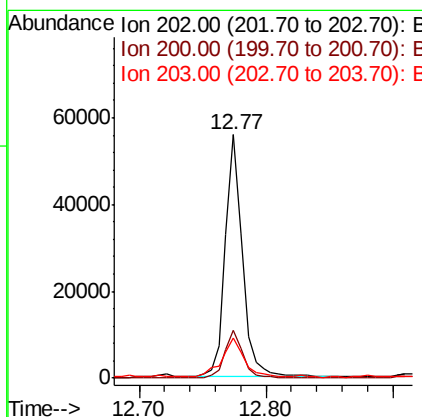
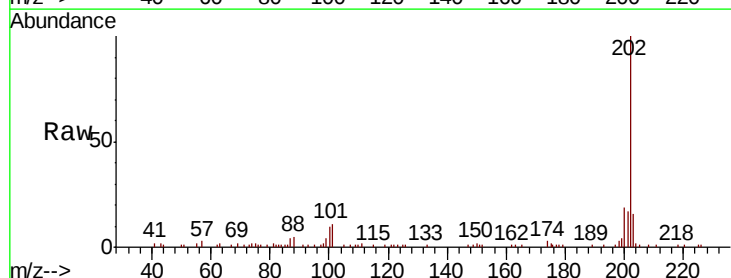
Instrument :
BNA_F
ClientSampleId :

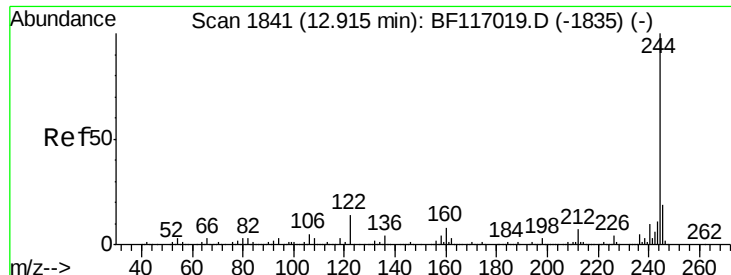
Tot Ion:240 Resp: 73326
Ion Ratio Lower Upper
240 100
120 10.9 8.3 12.5
236 24.7 20.3 30.5



#78
Pyrene
Concen: 8.502 ng
RT: 12.77 min Scan# 1817
Delta R.T. 0.00 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion:202 Resp: 52309
Ion Ratio Lower Upper
202 100
200 19.5 17.2 25.8
203 16.2 14.0 21.0

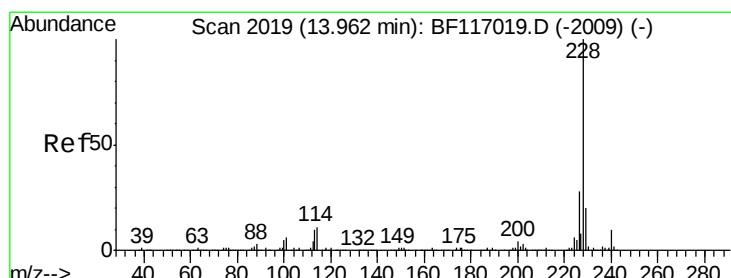
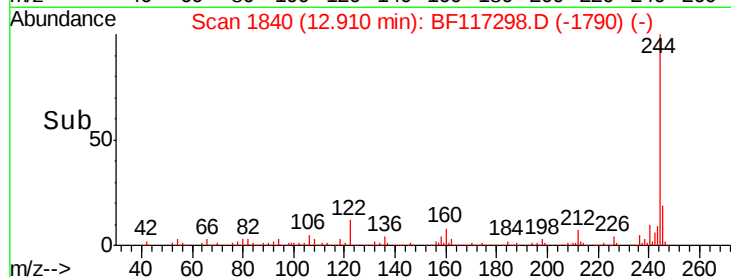
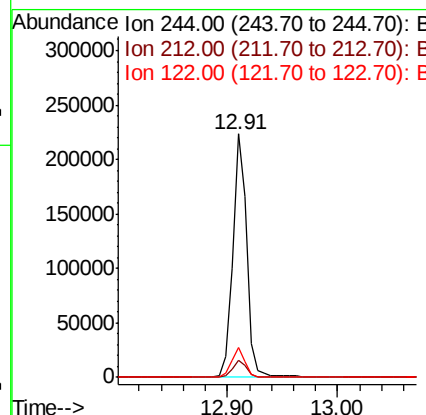
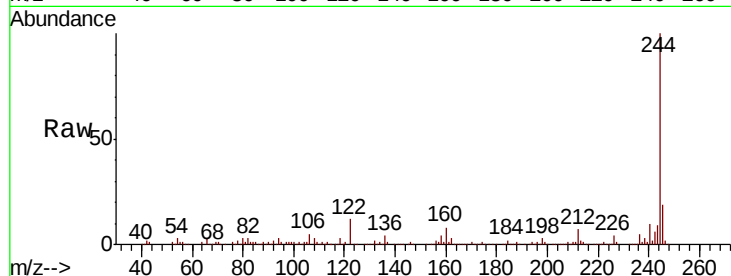




#79
 Terphenyl-d14
 Concen: 50.649 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF117298.D
 Acq: 2 Oct 2019 14:38

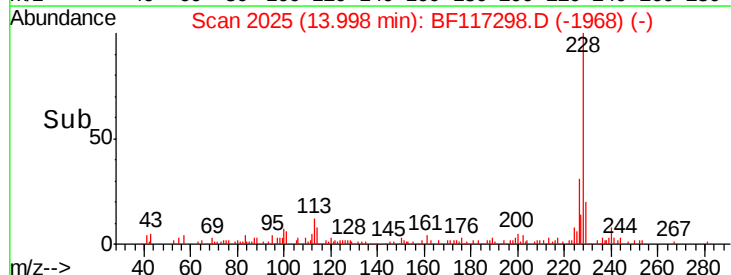
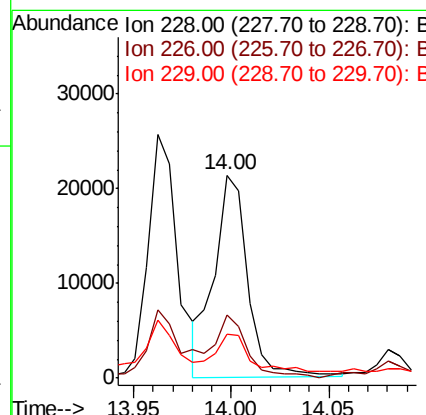
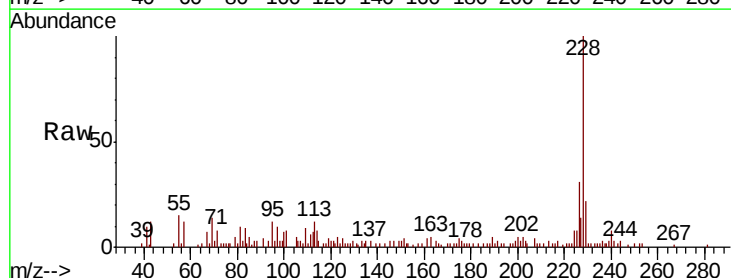
Instrument :
 BNA_F
 ClientSampled :

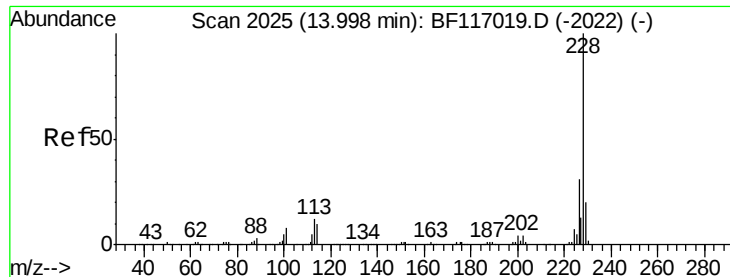
Tot Ion:244 Resp: 198687
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.8 8.8
 122 12.4 11.3 16.9



#81
 Benzo(a)anthracene
 Concen: 5.194 ng
 RT: 14.00 min Scan# 2025
 Delta R.T. 0.04 min
 Lab File: BF117298.D
 Acq: 2 Oct 2019 14:38

Tgt Ion:228 Resp: 25446
 Ion Ratio Lower Upper
 228 100
 226 31.1 22.3 33.5
 229 21.9 15.9 23.9





#83

Chrysene

Concen: 5.326 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Instrument :

BNA_F

ClientSampleId :

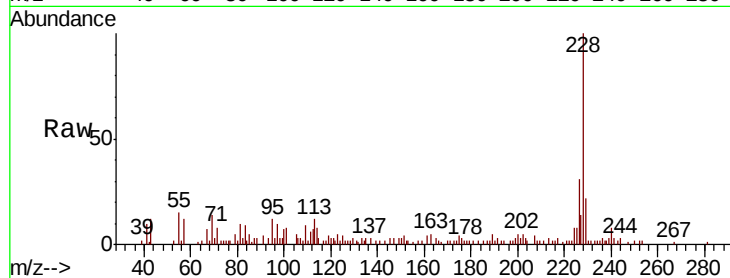
Tot Ion:228 Resp: 25446

Ion Ratio Lower Upper

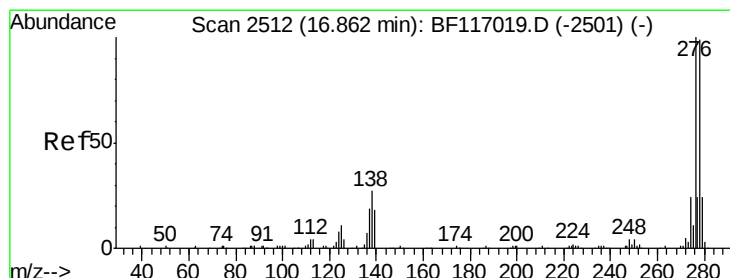
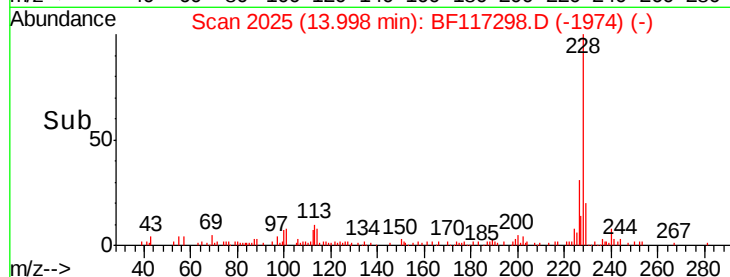
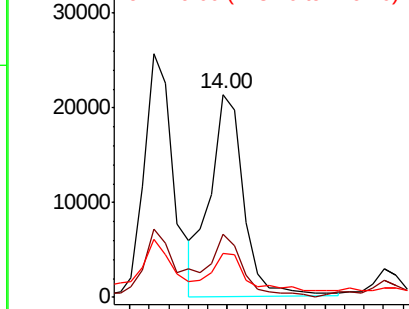
228 100

226 31.1 24.8 37.2

229 21.9 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.785 ng

RT: 16.89 min Scan# 2517

Delta R.T. 0.03 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

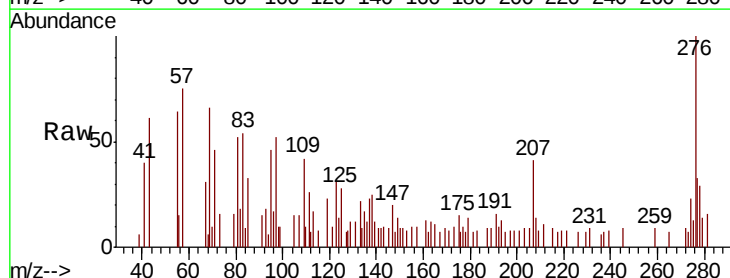
Tgt Ion:276 Resp: 9709

Ion Ratio Lower Upper

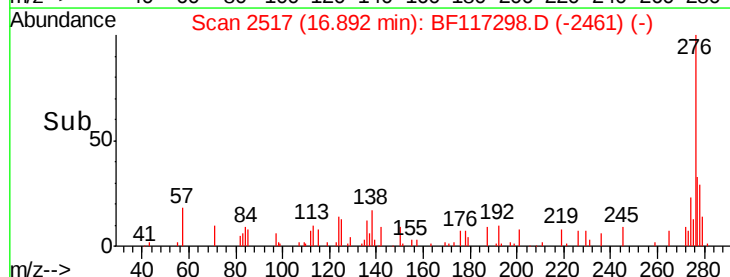
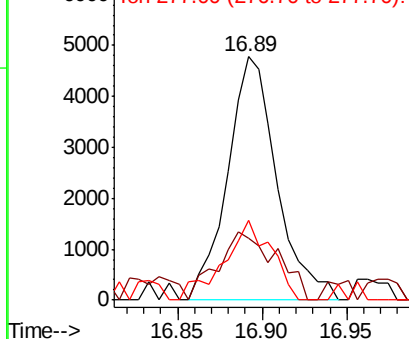
276 100

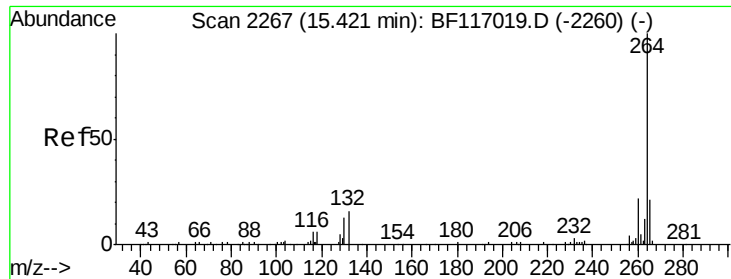
138 33.0 20.7 31.1#

277 31.2 19.8 29.8#



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

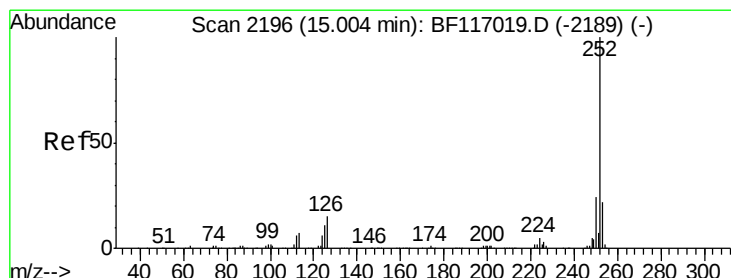
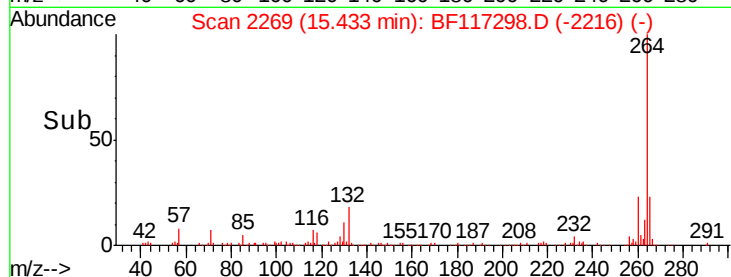
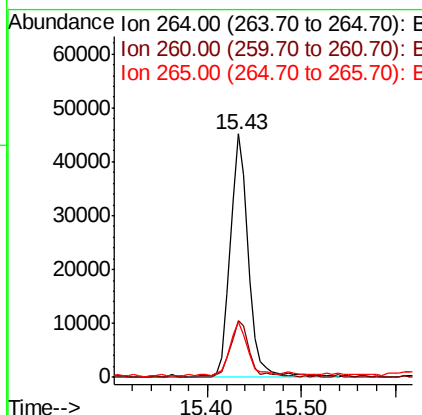
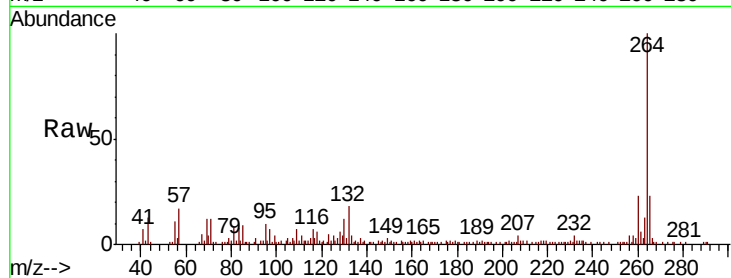




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

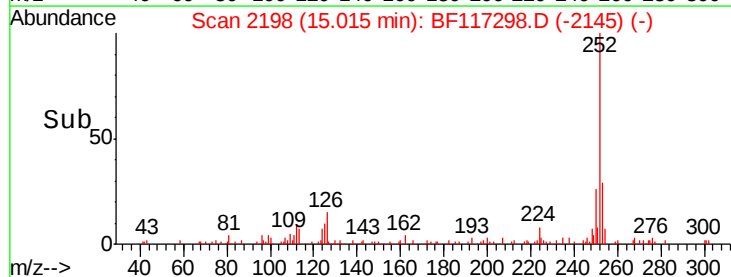
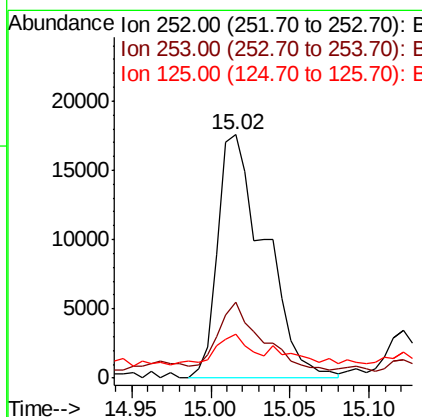
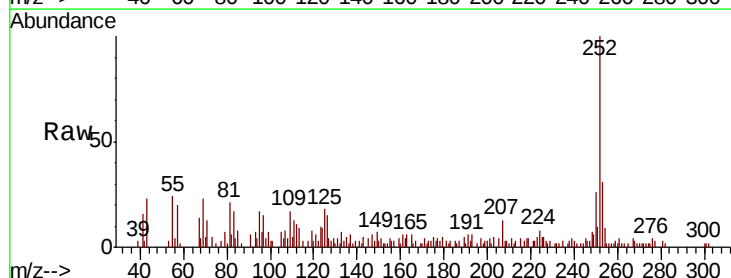
Instrument :
BNA_F
ClientSampleId :

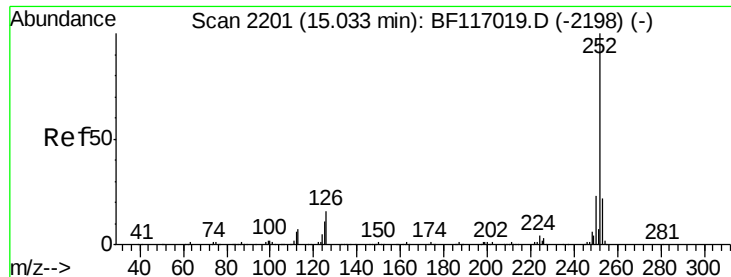
Tot Ion:264 Resp: 61244
Ion Ratio Lower Upper
264 100
260 23.4 17.6 26.4
265 22.8 16.6 24.8



#88
Benzo(b)fluoranthene
Concen: 9.827 ng
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion:252 Resp: 36456
Ion Ratio Lower Upper
252 100
253 31.2 17.6 26.4#
125 18.1 8.6 12.8#

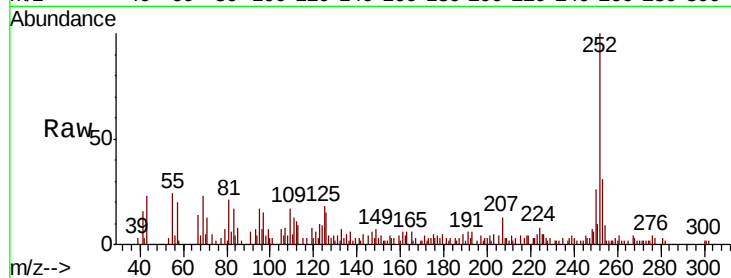




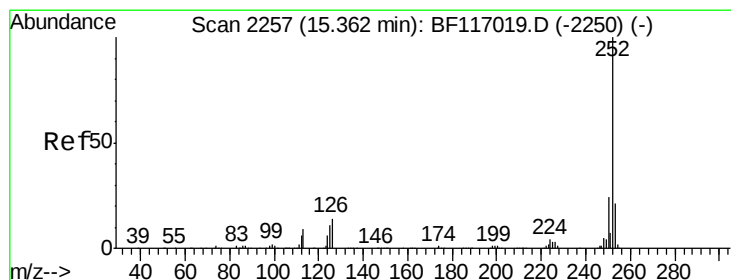
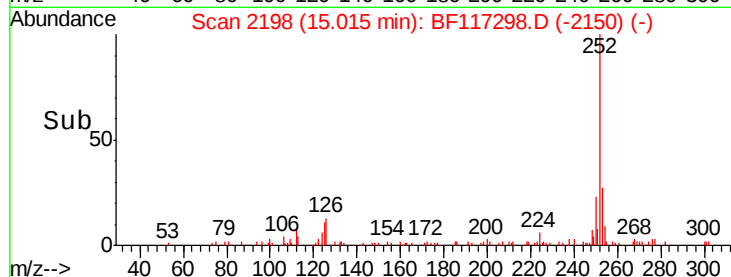
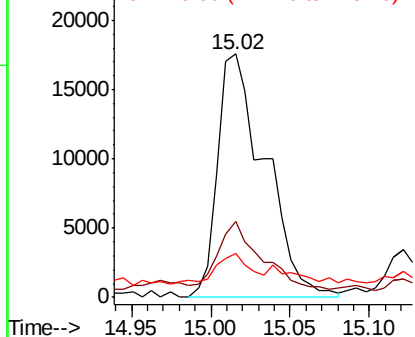
#89
Benzo(k)fluoranthene
Concen: 10.374 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.02 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	31.2	17.4	26.2#
125	18.1	8.8	13.2#

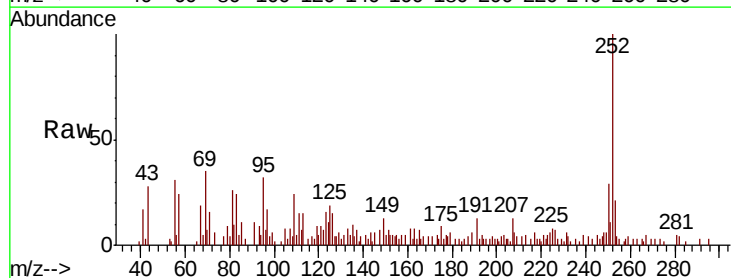


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

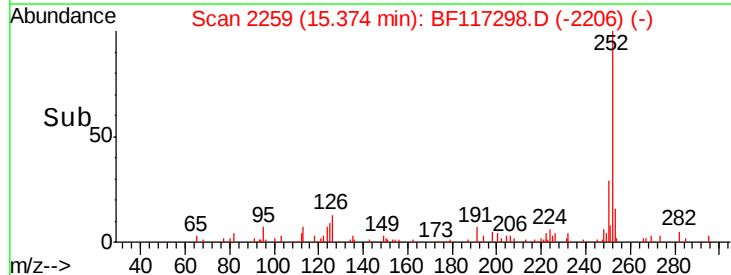
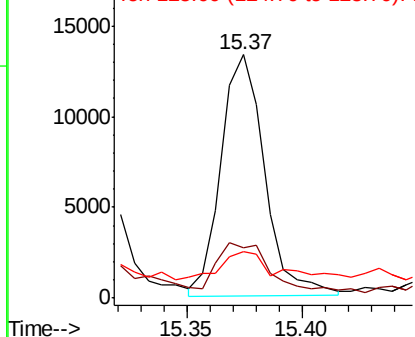


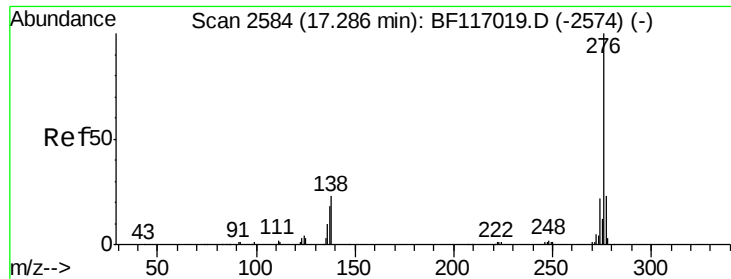
#90
Benzo(a)pyrene
Concen: 5.401 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF117298.D
Acq: 2 Oct 2019 14:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.7	16.6	25.0
125	19.1	8.9	13.3#



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(a,h,i)perylene

Concen: 3.673 ng

RT: 17.33 min Scan# 2592

Delta R.T. 0.05 min

Lab File: BF117298.D

Acq: 2 Oct 2019 14:38

Instrument :

BNA_F

ClientSampleId :

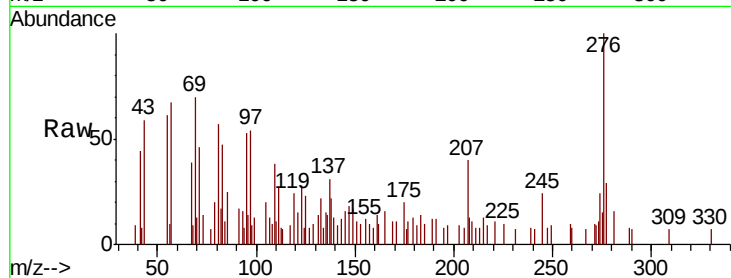
Tot Ion: 276 Resp: 9492

Ion Ratio Lower Upper

276 100

277 29.1 18.6 27.8#

138 21.5 18.0 27.0



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

