

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102819\
 Data File : BF117574.D
 Acq On : 28 Oct 2019 20:58
 Operator : JU
 Sample : K5563-04
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 29 14:07:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	45166	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	191013	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	93860	20.00	ng	-0.01
64) Phenanthrene-d10	11.25	188	131688	20.00	ng	0.00
76) Chrysene-d12	13.89	240	87450	20.00	ng	0.00
87) Perylene-d12	15.33	264	86039	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.35	112	240606	79.25	ng	0.00
7) Phenol-d6	6.38	99	315540	77.38	ng	0.00
23) Nitrobenzene-d5	7.29	82	207489	53.63	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	57157	70.38	ng	-0.01
45) 2-Fluorobiphenyl	9.08	172	289786	43.50	ng	-0.01
79) Terphenyl-d14	12.83	244	209049	38.99	ng	0.00

Target Compounds

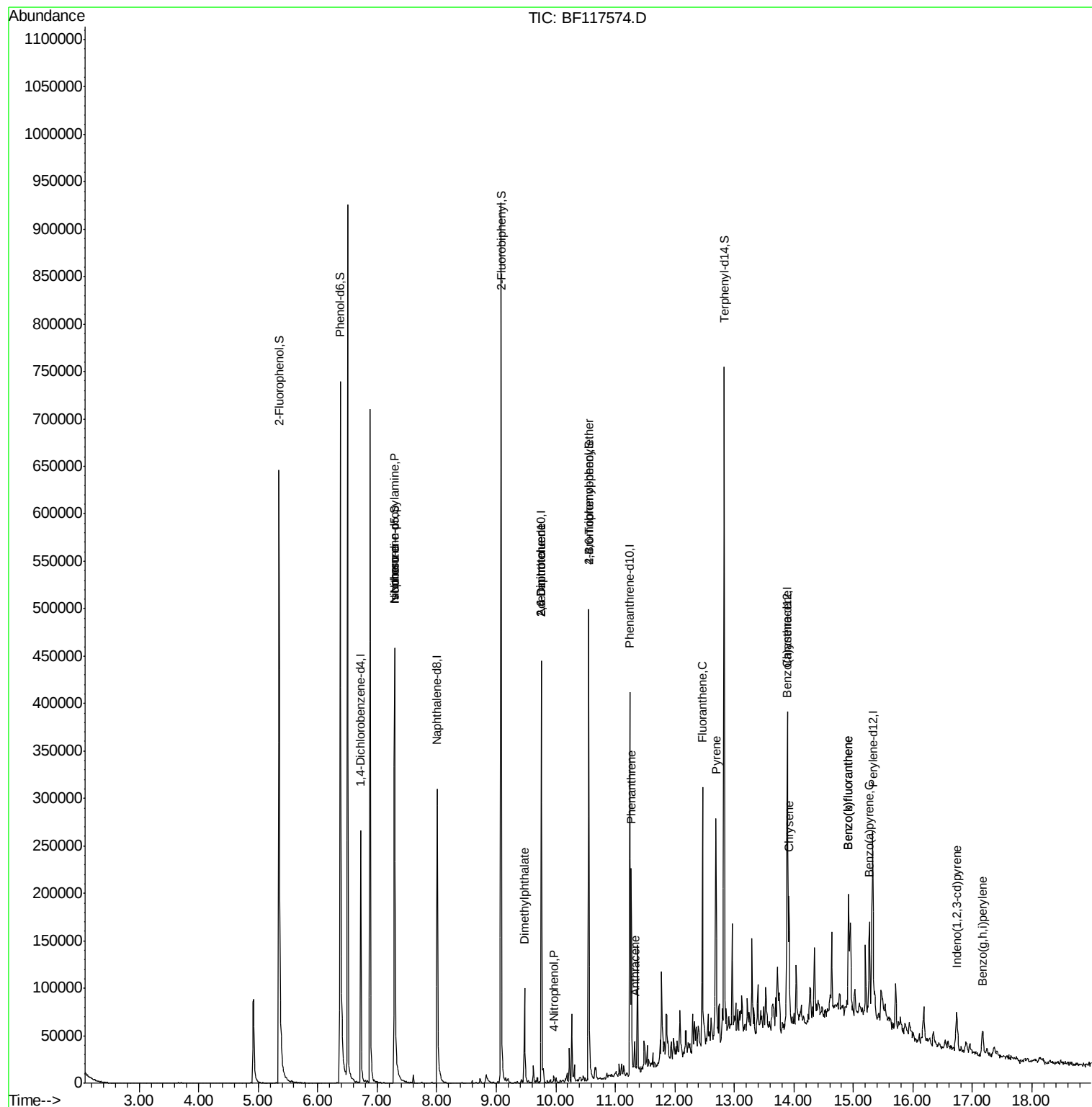
						Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	26542	10.658	ng	# 78
25) Isophorone	7.29	82	207488	30.999	ng	# 65
50) Dimethylphthalate	9.47	163	43796	6.545	ng	# 98
51) 2,6-Dinitrotoluene	9.76	165	12339	8.837	ng	# 22
56) 4-Nitrophenol	9.97	139	1350	5.772	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	12339	6.647	ng	# 12
67) 4-Bromophenyl-phenylether	10.55	248	3633	2.561	ng	# 1
71) Phenanthrene	11.27	178	75872	9.922	ng	99
72) Anthracene	11.33	178	17647	2.249	ng	98
75) Fluoranthene	12.46	202	109256	14.273	ng	97
77) Benzidine	12.83	184	3033	Below Cal		# 91
78) Pylene	12.69	202	97774	13.017	ng	98
81) Benzo(a)anthracene	13.88	228	52752	8.943	ng	97
83) Chrysene	13.92	228	47095	8.146	ng	97
86) Indeno(1,2,3-cd)pyrene	16.74	276	23812	5.517	ng	99
88) Benzo(b)fluoranthene	14.92	252	81702	16.081	ng	98
89) Benzo(k)fluoranthene	14.92	252	81702	15.690	ng	# 96
90) Benzo(a)pyrene	15.27	252	42761	9.257	ng	# 94
92) Benzo(a,h,i)perylene	17.17	276	22452	5.941	ng	95

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102819\
Data File : BF117574.D
Acq On : 28 Oct 2019 20:58
Operator : JU
Sample : K5563-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :

Quant Time: Oct 29 14:07:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 18:53:31 2019
Response via : Initial Calibration



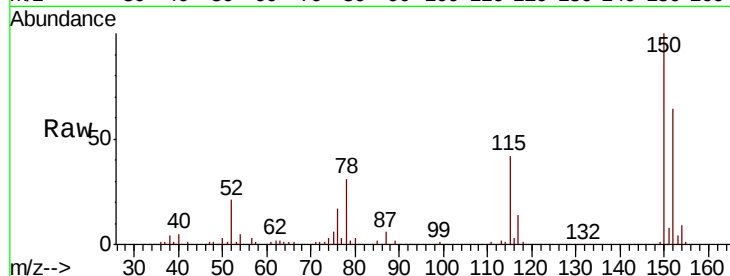


#1

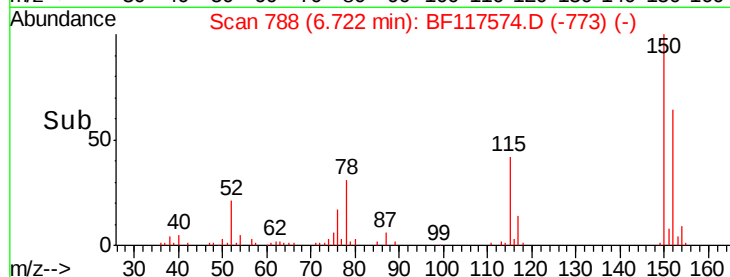
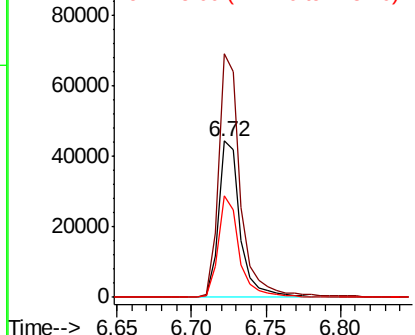
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 45166
Ion Ratio Lower Upper
152 100
150 155.8 126.8 190.2
115 65.0 51.6 77.4



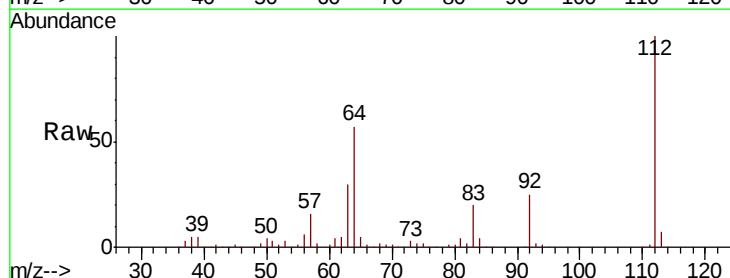
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



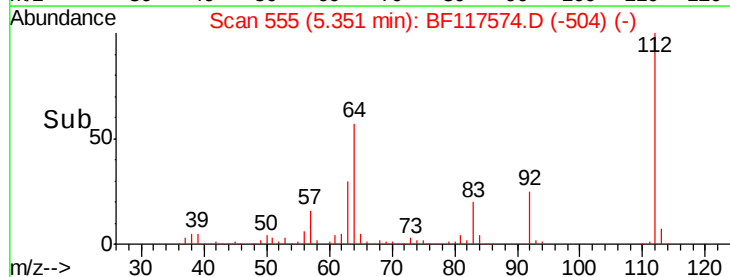
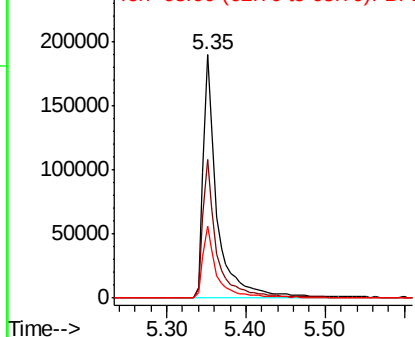
#5

2-Fluorophenol
Concen: 79.252 ng
RT: 5.35 min Scan# 555
Delta R.T. -0.00 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion:112 Resp: 240606
Ion Ratio Lower Upper
112 100
64 57.1 44.1 66.1
63 29.8 23.4 35.2



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: 77.383 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampleId :

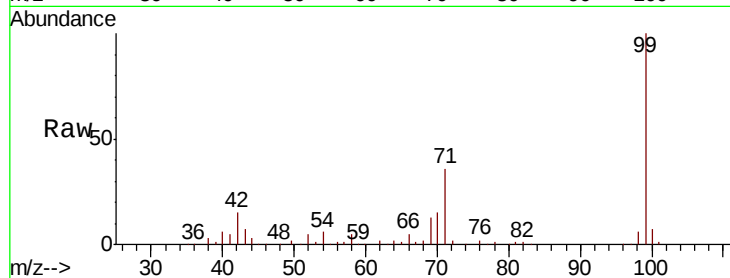
Tot Ion: 99 Resp: 315540

Ion Ratio Lower Upper

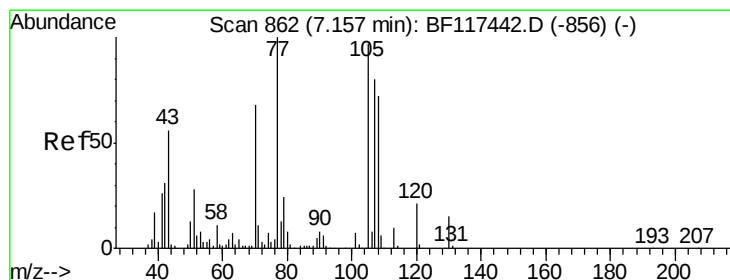
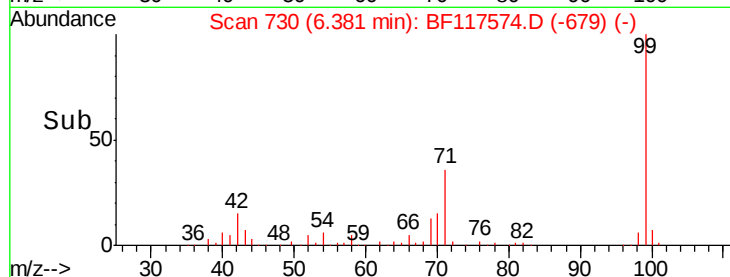
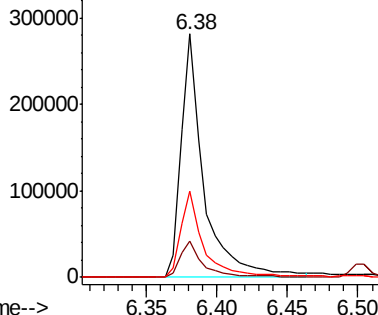
99 100

42 15.1 12.8 19.2

71 35.6 28.6 43.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.658 ng

RT: 7.29 min Scan# 885

Delta R.T. 0.14 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Tgt Ion: 70 Resp: 26542

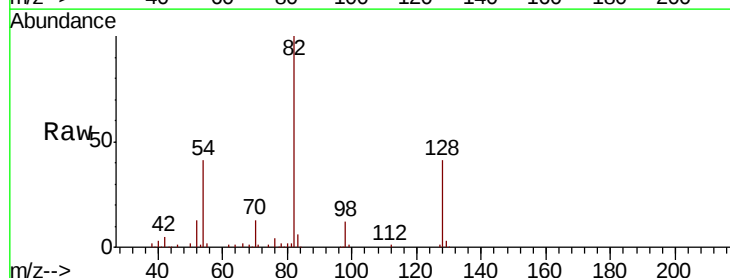
Ion Ratio Lower Upper

70 100

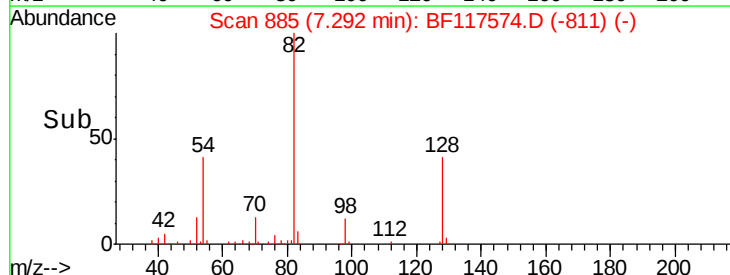
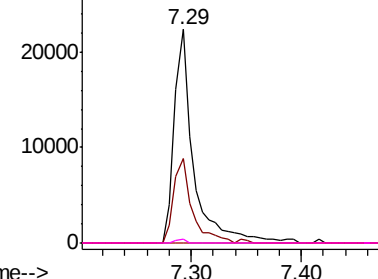
42 39.6 36.7 55.1

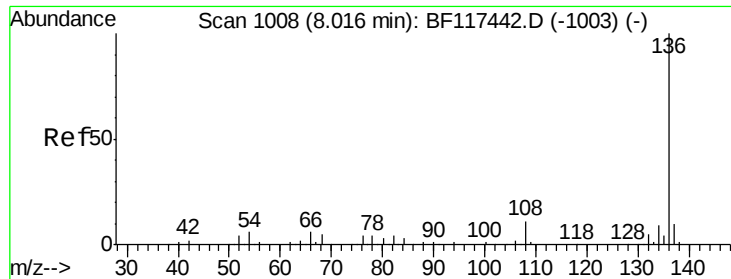
101 0.0 8.3 12.5#

130 1.6 18.1 27.1#



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): BF1
Ion 130.00 (129.70 to 130.70): BF1

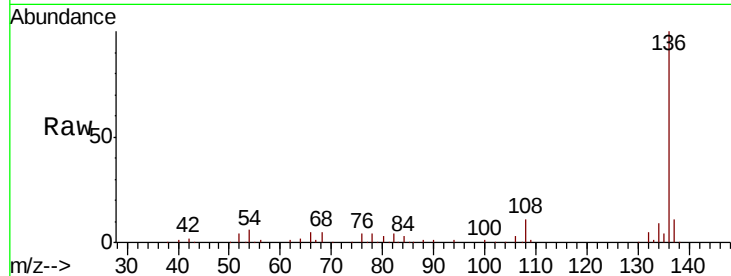




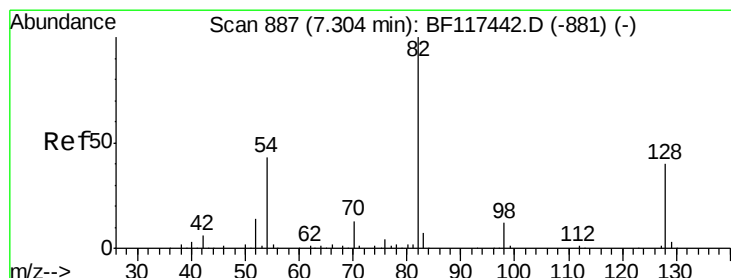
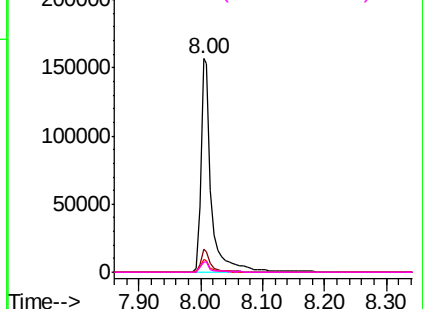
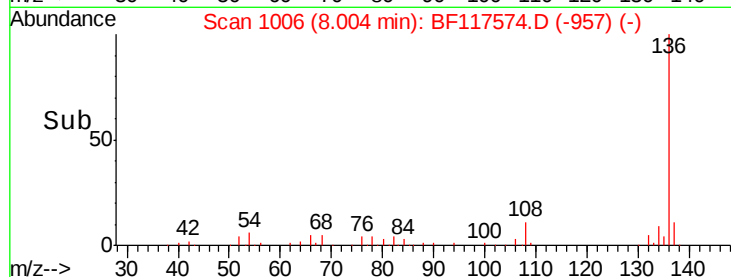
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Instrument :
BNA_E
ClientSampled :

Tot Ion:136	Resp:	191013
Ion	Ratio	Lower Upper
136	100	
137	11.0	8.2 12.4
54	6.1	4.5 6.7
68	4.9	4.3 6.5

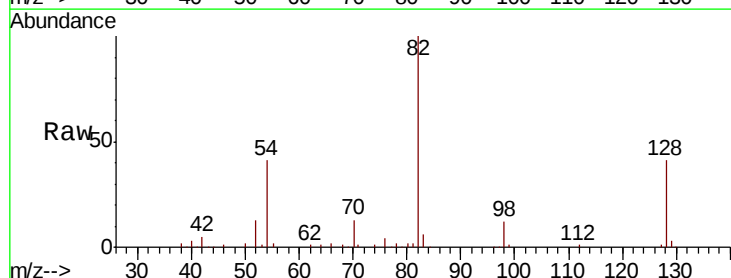


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

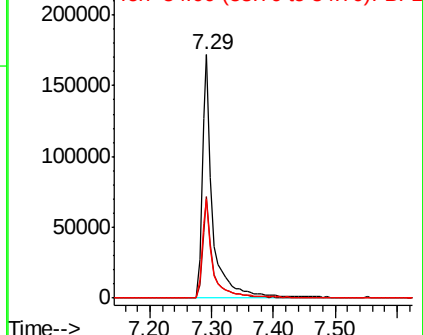
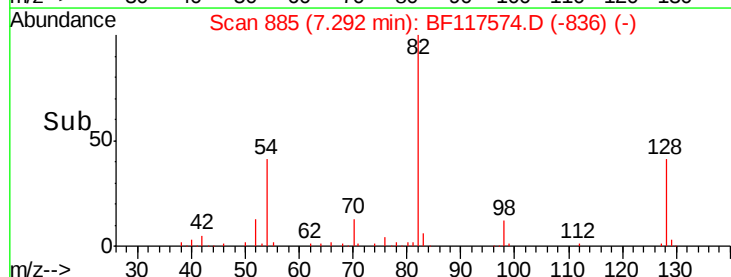


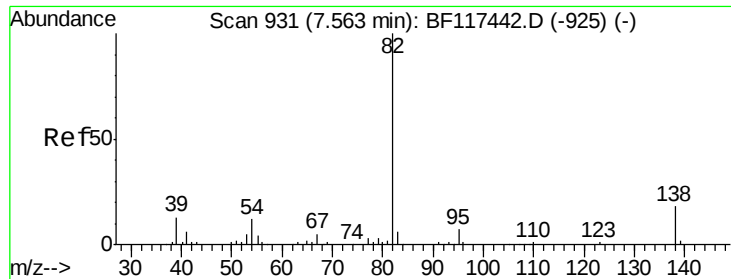
#23
Nitrobenzene-d5
Concen: 53.626 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion: 82	Resp:	207489
Ion	Ratio	Lower Upper
82	100	
128	41.5	32.2 48.2
54	40.8	34.2 51.2



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





#25

Isophorone

Concen: 30.999 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.27 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampleId :

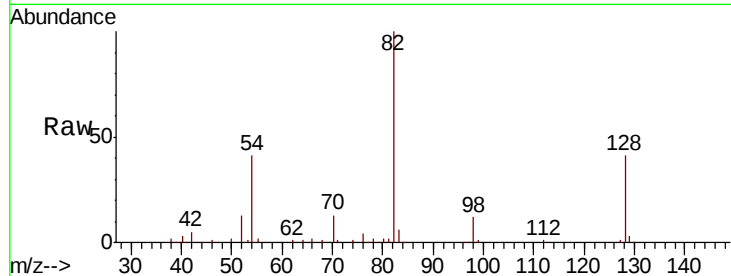
Tot Ion: 82 Resp: 207488

Ion Ratio Lower Upper

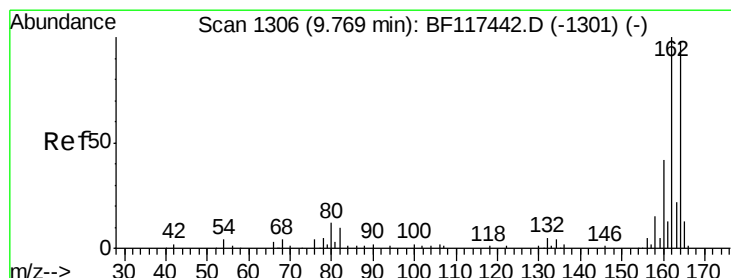
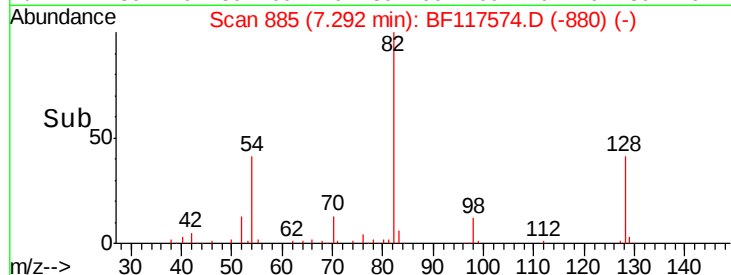
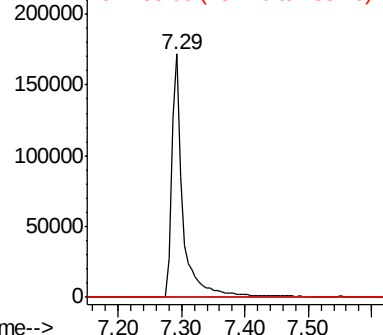
82 100

95 0.0 5.4 8.0#

138 0.0 14.2 21.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

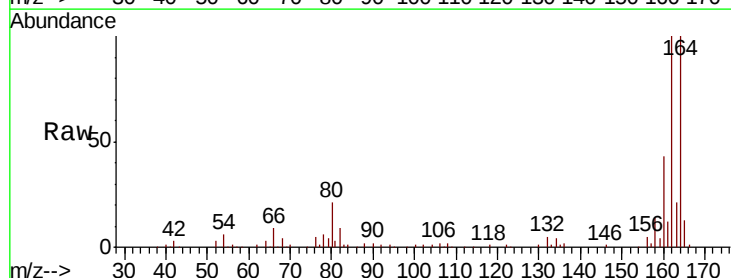
Tgt Ion: 164 Resp: 93860

Ion Ratio Lower Upper

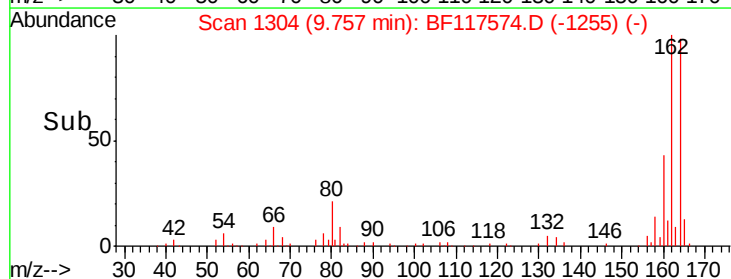
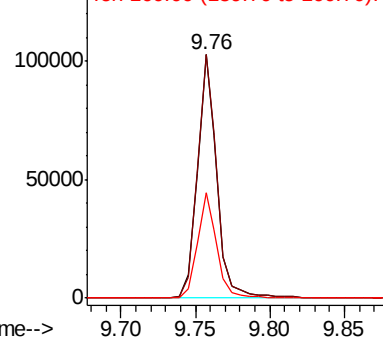
164 100

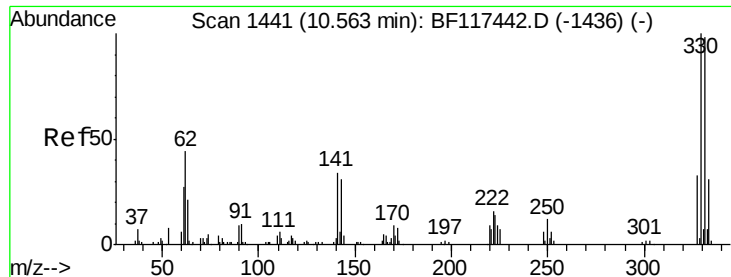
162 100.1 81.8 122.6

160 43.1 34.4 51.6



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: 70.379 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampleId :

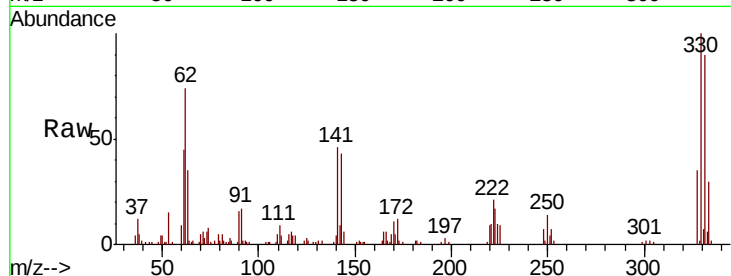
Tot Ion:330 Resp: 57157

Ion Ratio Lower Upper

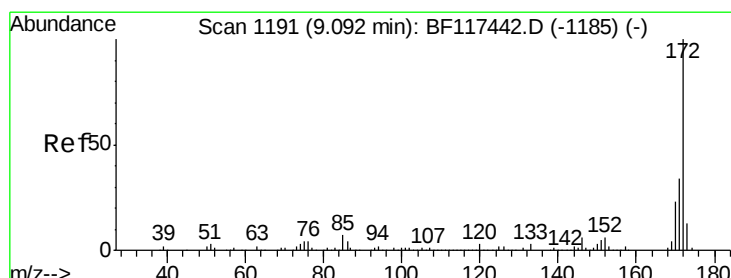
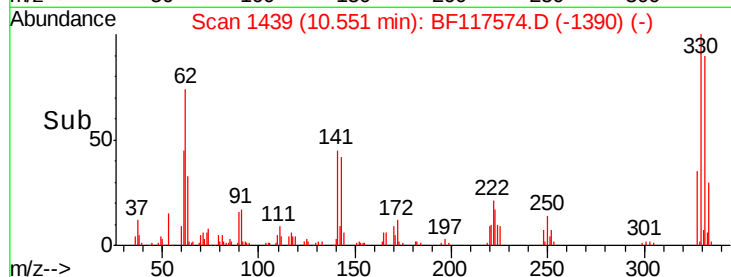
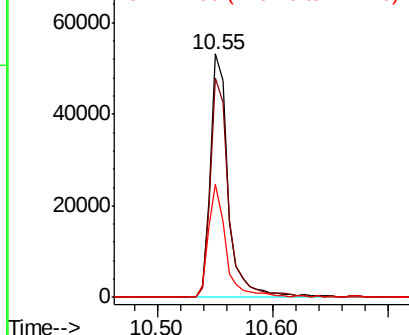
330 100

332 92.4 78.5 117.7

141 45.4 37.0 55.6



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: 43.502 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

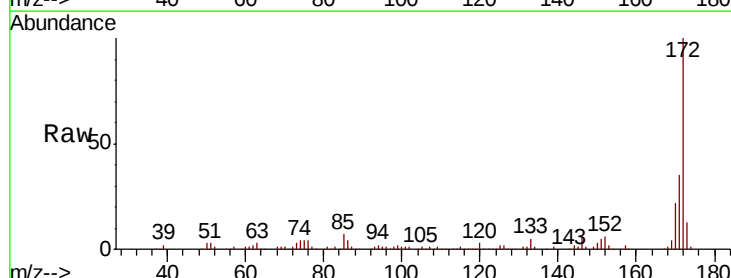
Tgt Ion:172 Resp: 289786

Ion Ratio Lower Upper

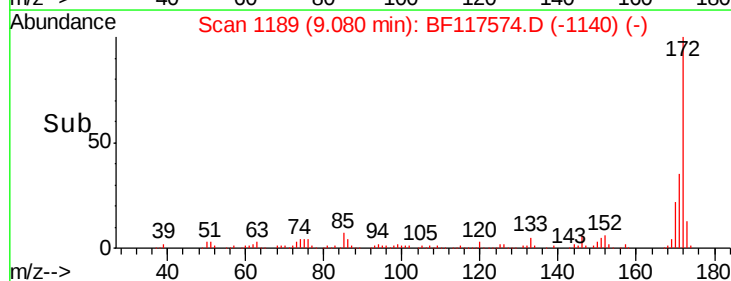
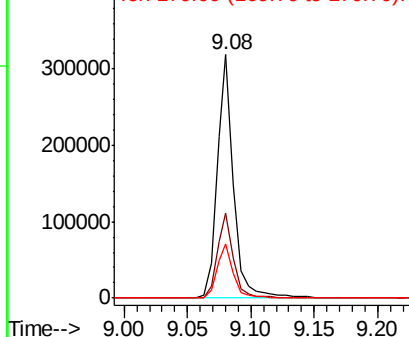
172 100

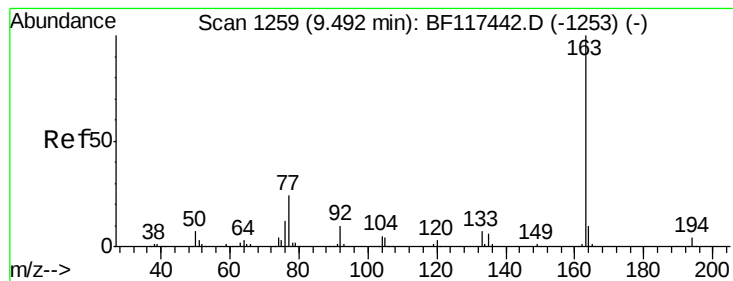
171 35.1 27.5 41.3

170 22.3 18.6 27.8



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: 6.545 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.02 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampled :

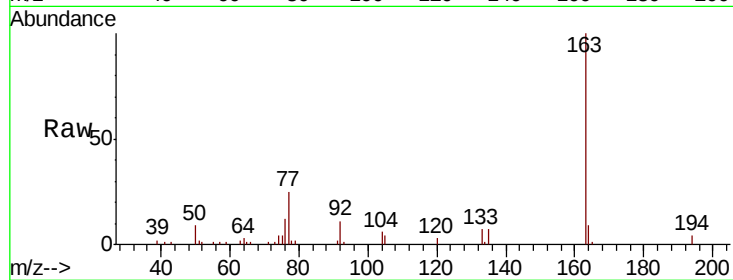
Tot Ion:163 Resp: 43796

Ion Ratio Lower Upper

163 100

194 4.4 2.9 4.3#

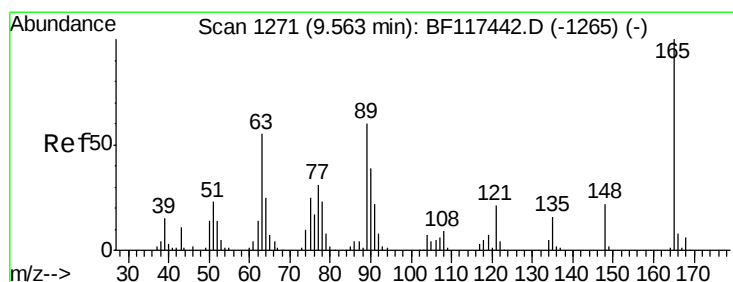
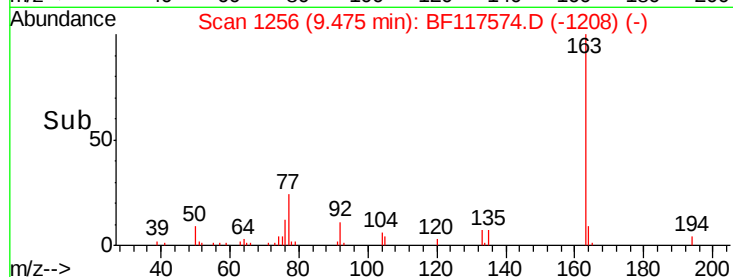
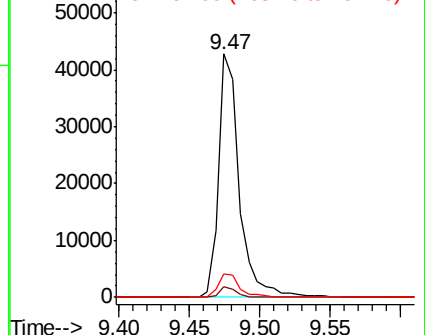
164 9.5 8.2 12.2



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: 8.837 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.19 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

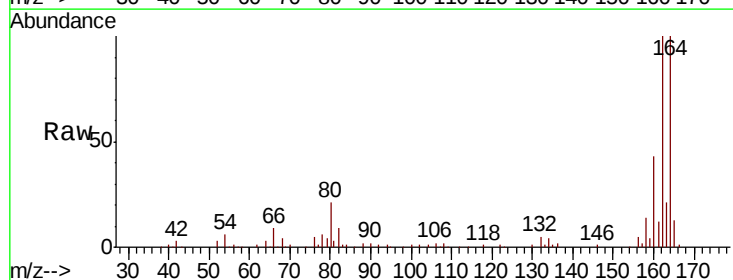
Tgt Ion:165 Resp: 12339

Ion Ratio Lower Upper

165 100

63 0.0 43.8 65.8#

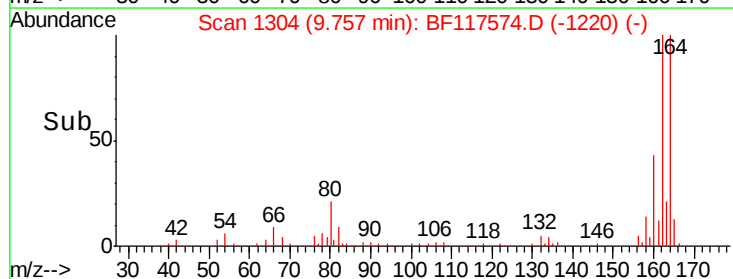
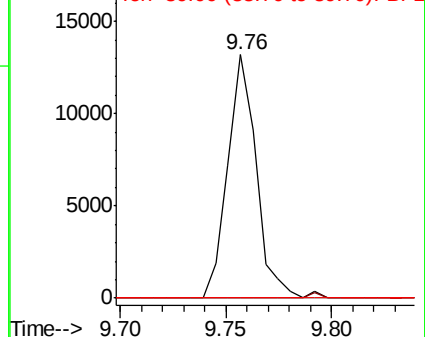
89 0.0 47.6 71.4#

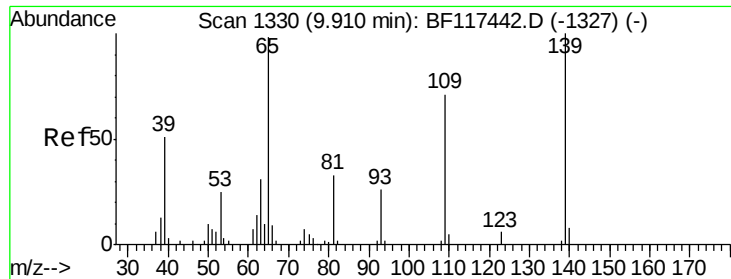


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

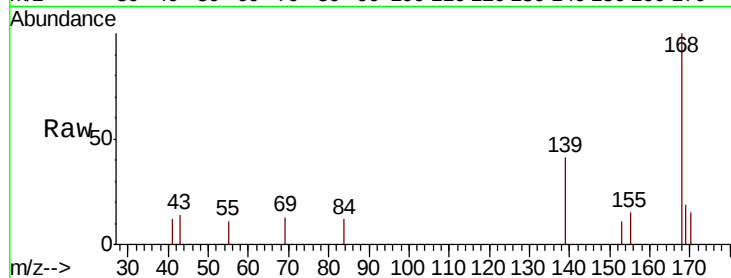




#56
4-Nitrophenol
Concen: 5.772 ng
RT: 9.97 min Scan# 1340
Delta R.T. 0.06 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	51.4	91.4#
65	0.0	79.4	119.4#

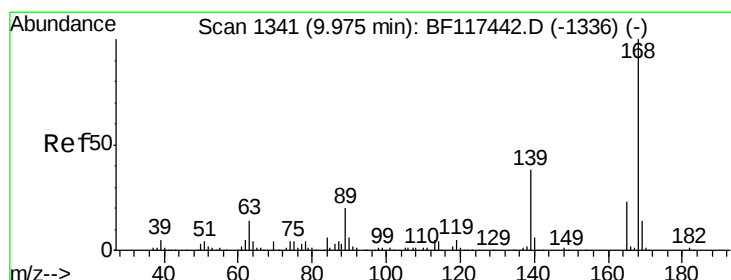
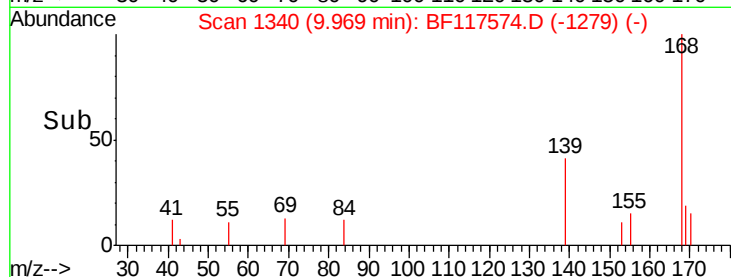
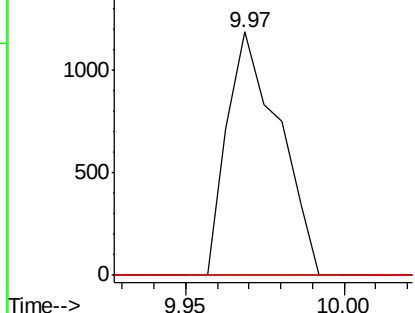


Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57
2,4-Dinitrotoluene
Concen: 6.647 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.22 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	51.4	77.0#
89	0.0	69.9	104.9#
182	0.0	1.9	2.9#

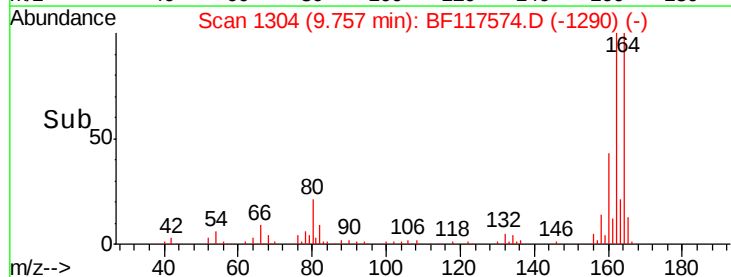
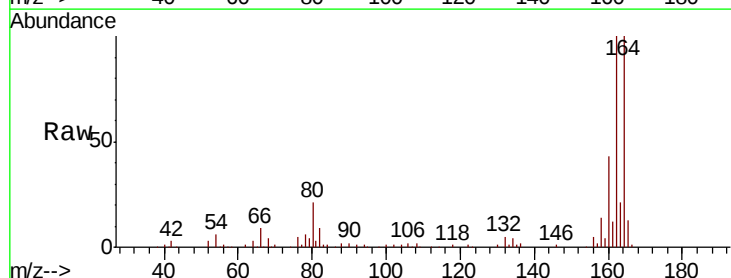
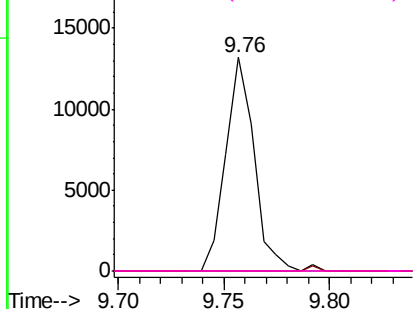
Abundance

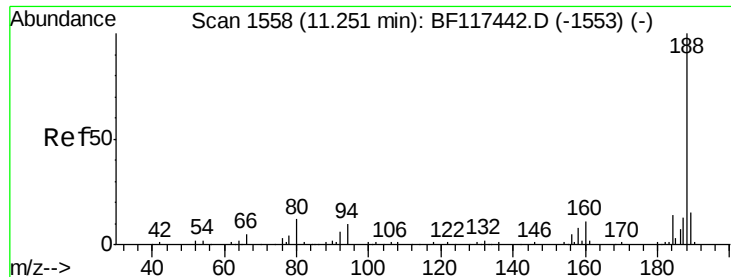
Ion 165.00 (164.70 to 165.70): E

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

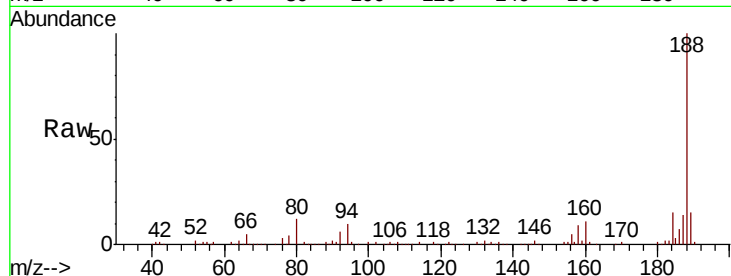




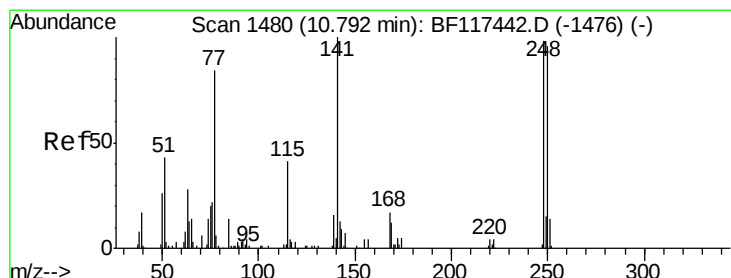
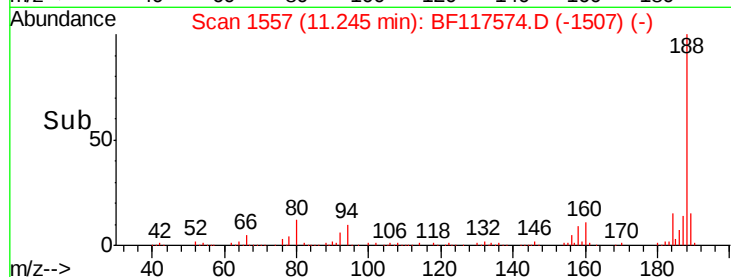
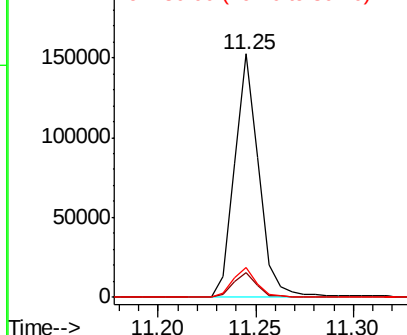
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1557
Delta R.T. -0.01 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 131688
Ion Ratio Lower Upper
188 100
94 10.1 8.0 12.0
80 12.1 9.5 14.3

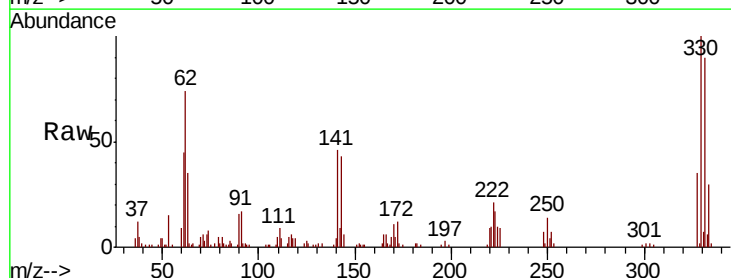


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

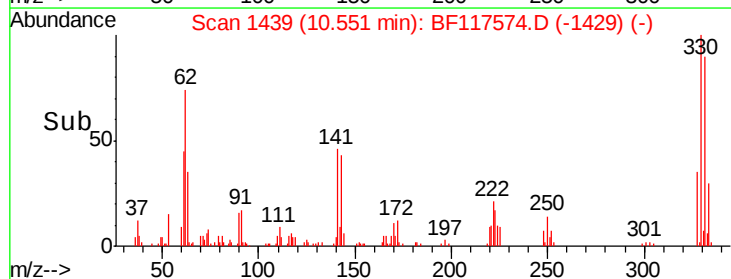
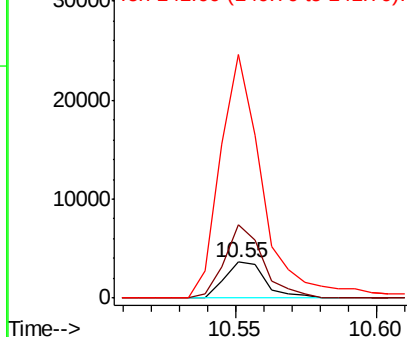


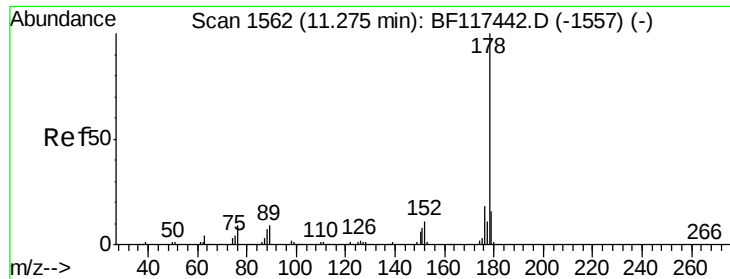
#67
4-Bromophenyl-phenylether
Concen: 2.561 ng
RT: 10.55 min Scan# 1439
Delta R.T. -0.24 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion:248 Resp: 3633
Ion Ratio Lower Upper
248 100
250 205.6 78.0 117.0#
141 680.7 81.7 122.5#



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

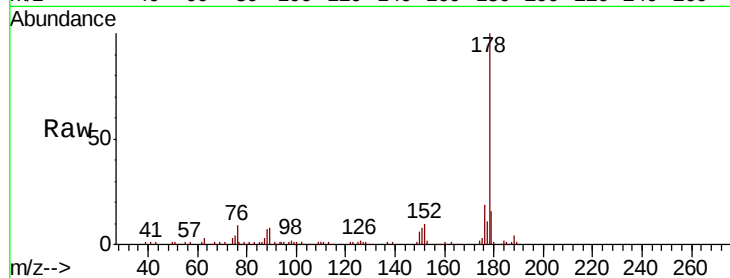




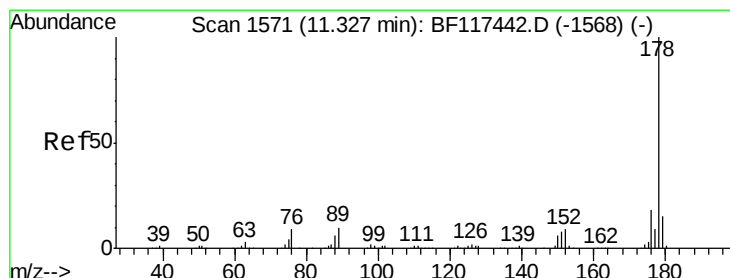
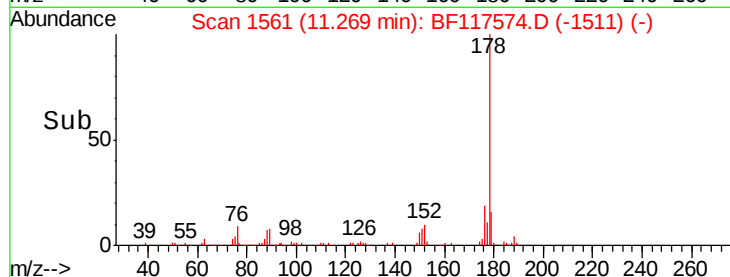
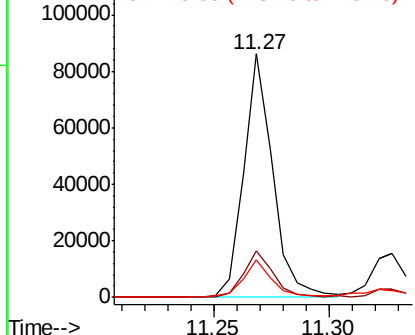
#71
Phenanthrene
Concen: 9.922 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Instrument :
BNA_E
ClientSampled :

Tot Ion:178 Resp: 75872
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.6 12.6 19.0

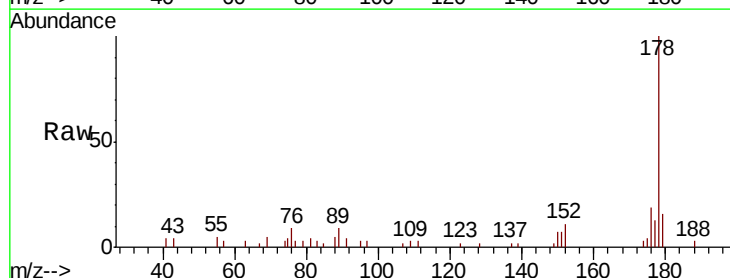


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

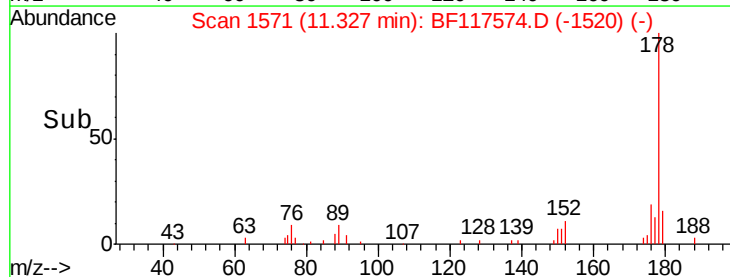
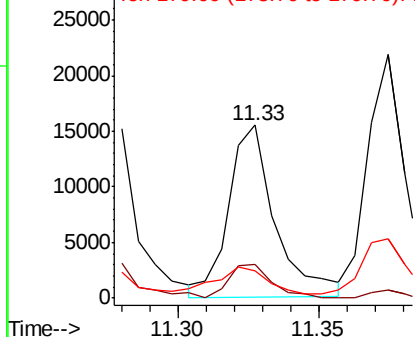


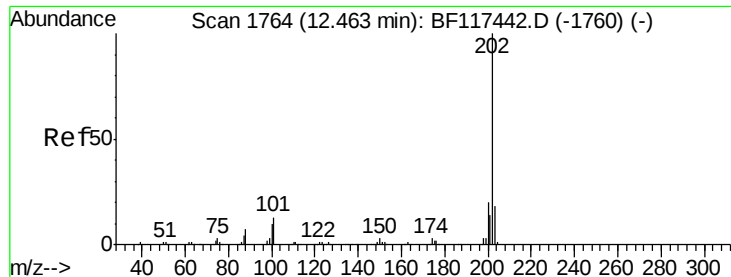
#72
Anthracene
Concen: 2.249 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion:178 Resp: 17647
Ion Ratio Lower Upper
178 100
176 19.2 14.7 22.1
179 16.1 12.2 18.2



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





#75

Fluoranthene

Concen: 14.273 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.00 min

Lab File: BF117574.D

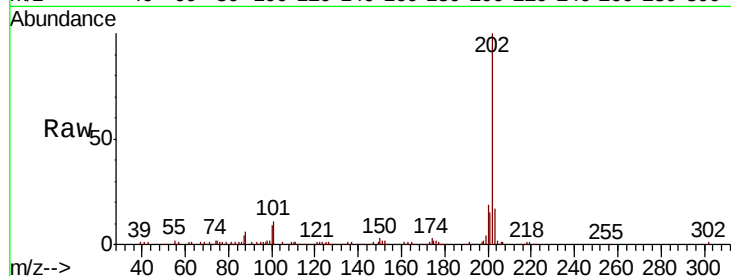
Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	202	Resp:	109256
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	32.7
203	16.5	0.0	37.6

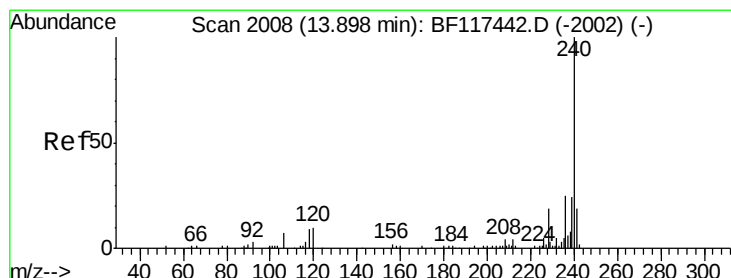
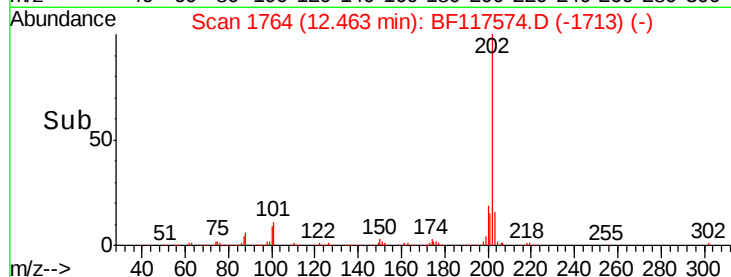
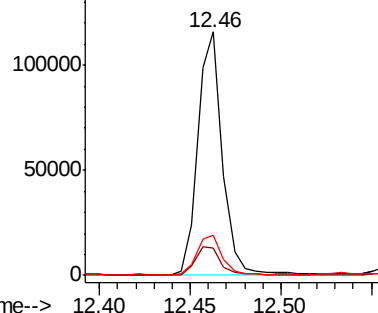


Abundance

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

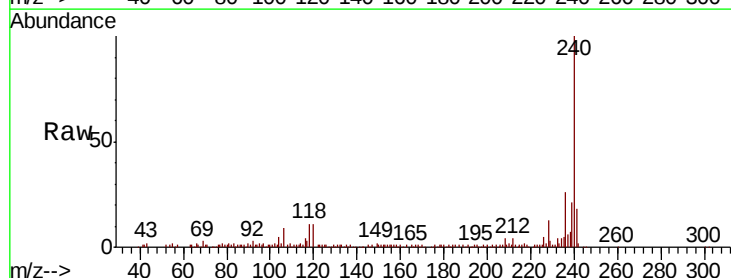
RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Tgt Ion:	240	Resp:	87450
Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.4	12.6
236	25.7	20.0	30.0

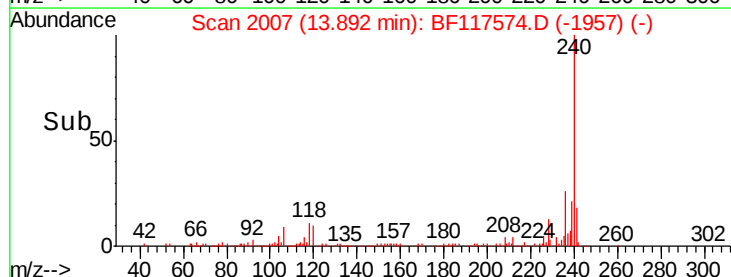
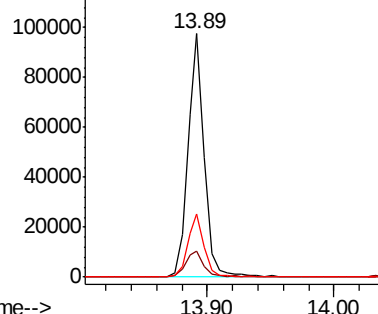


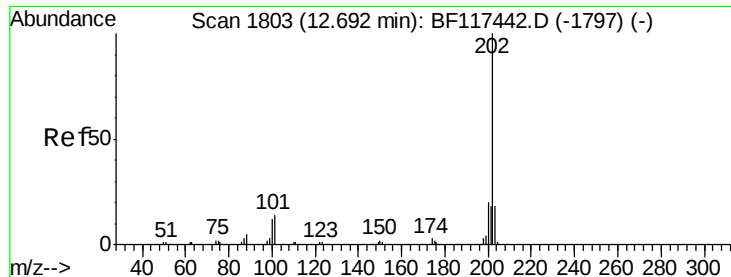
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 13.017 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.00 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampled :

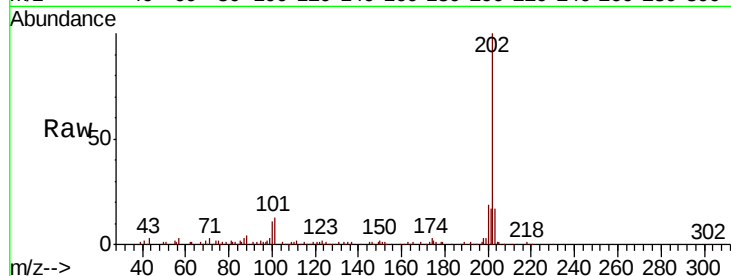
Tot Ion:202 Resp: 97774

Ion Ratio Lower Upper

202 100

200 18.8 16.2 24.2

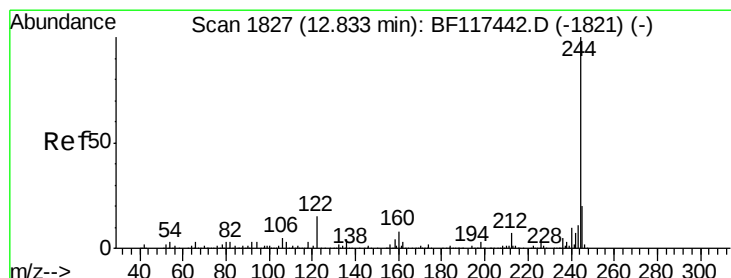
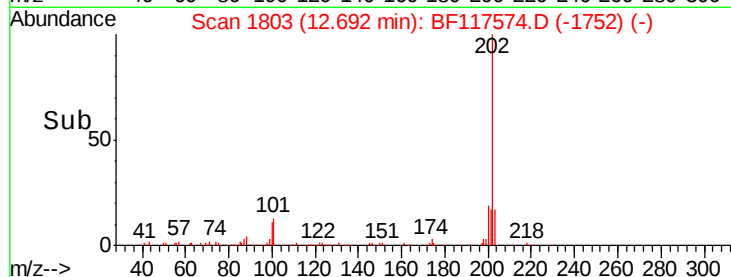
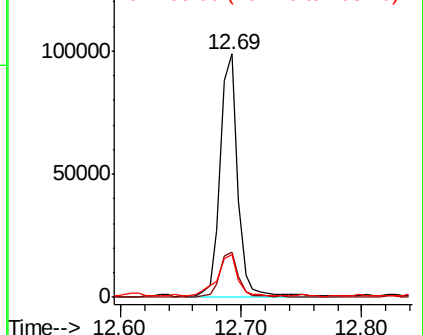
203 17.3 14.0 21.0



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: 38.992 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

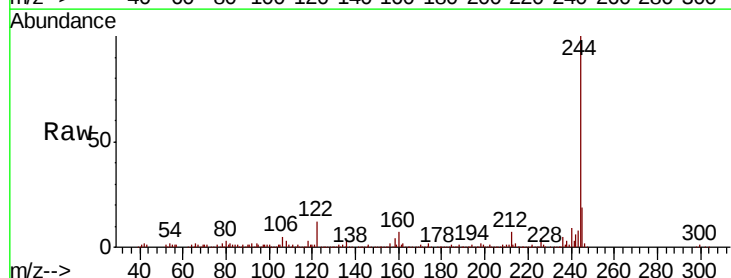
Tgt Ion:244 Resp: 209049

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

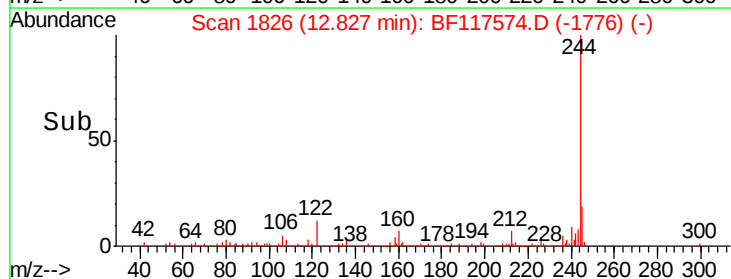
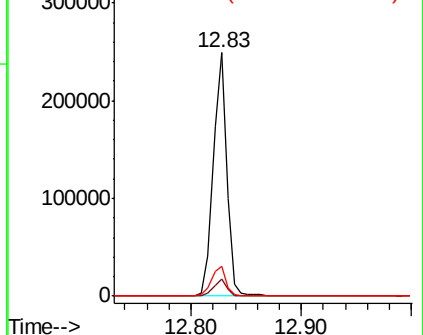
122 12.1 11.8 17.8

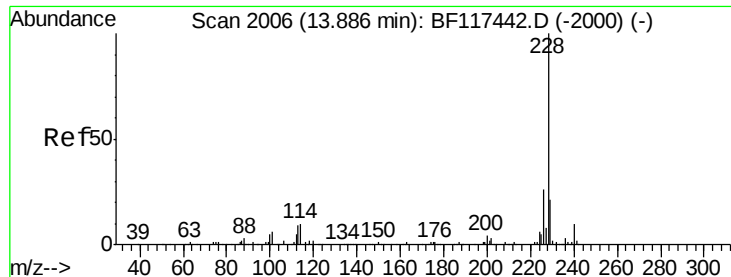


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 8.943 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

Instrument :

BNA_E

ClientSampleId :

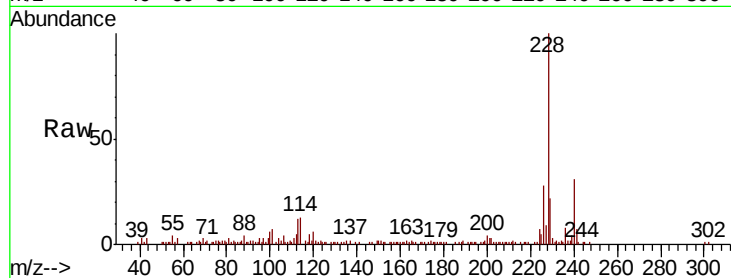
Tot Ion:228 Resp: 52752

Ion Ratio Lower Upper

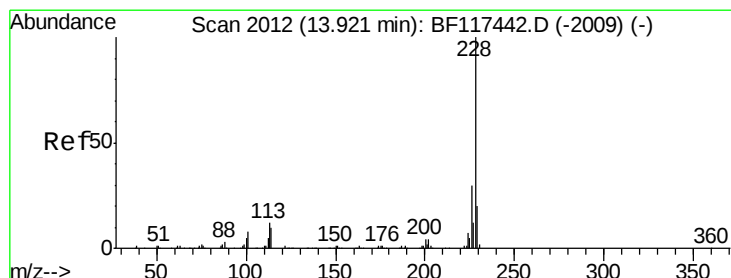
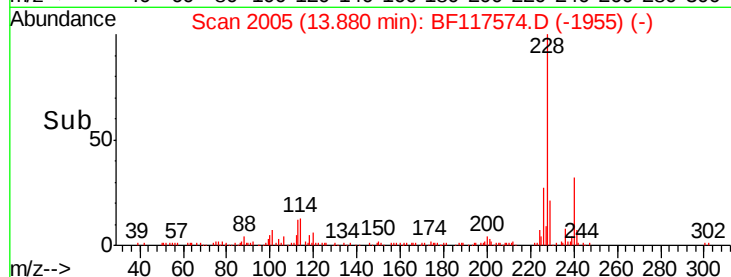
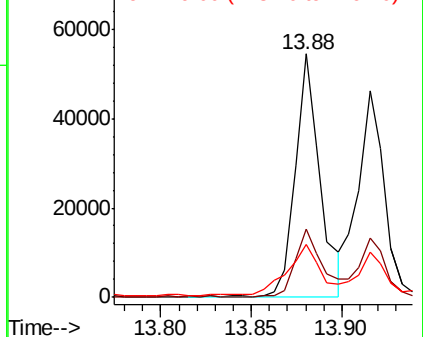
228 100

226 27.9 21.0 31.4

229 21.8 16.4 24.6



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



#83

Chrysene

Concen: 8.146 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF117574.D

Acq: 28 Oct 2019 20:58

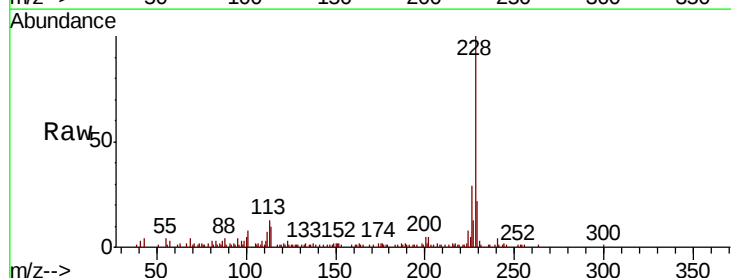
Tgt Ion:228 Resp: 47095

Ion Ratio Lower Upper

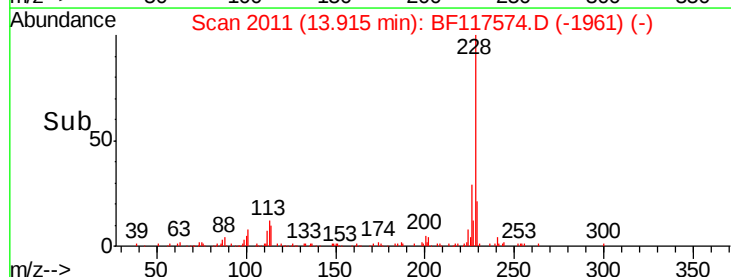
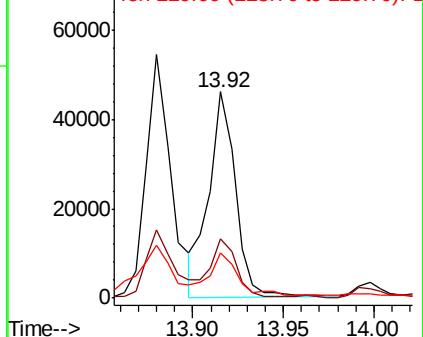
228 100

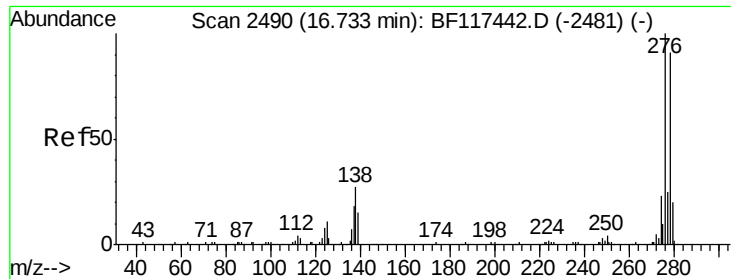
226 28.7 23.9 35.9

229 22.1 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

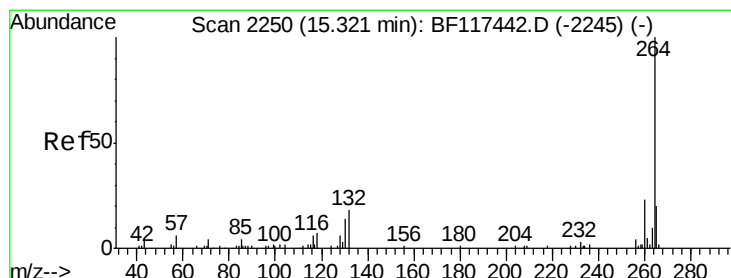
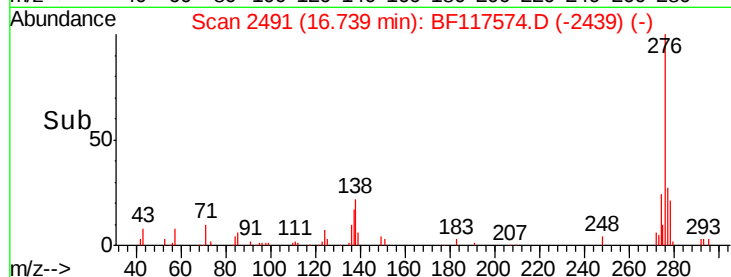
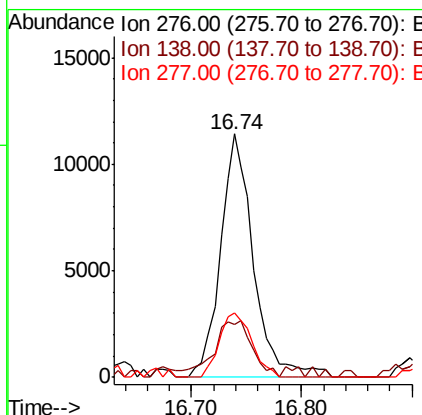
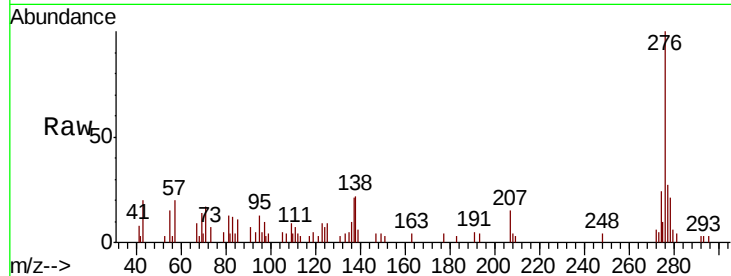




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.517 ng
 RT: 16.74 min Scan# 2491
 Delta R.T. 0.01 min
 Lab File: BF117574.D
 Acq: 28 Oct 2019 20:58

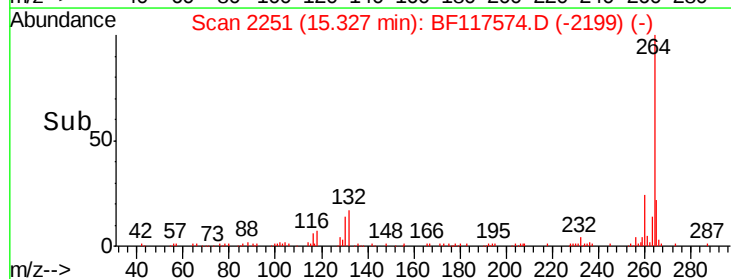
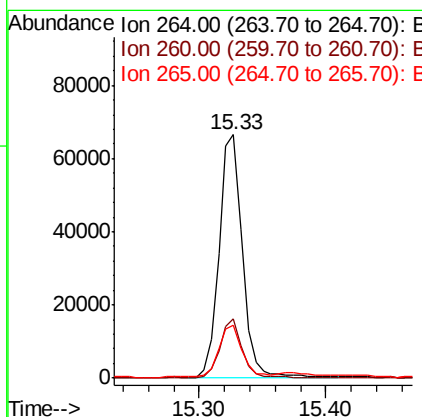
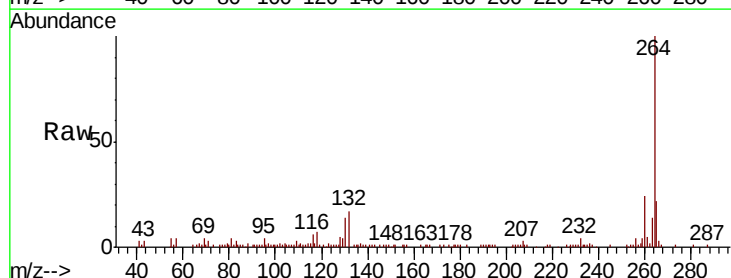
Instrument :
 BNA_E
 ClientSampleId :

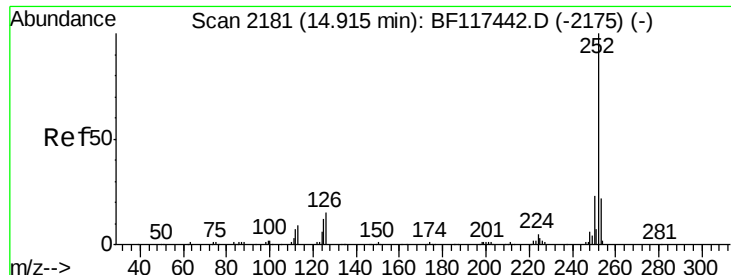
Tot Ion	Ratio	Lower	Upper
276	100		
138	27.0	21.8	32.8
277	26.1	20.0	30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2251
 Delta R.T. 0.01 min
 Lab File: BF117574.D
 Acq: 28 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.4	27.6
265	21.9	16.1	24.1

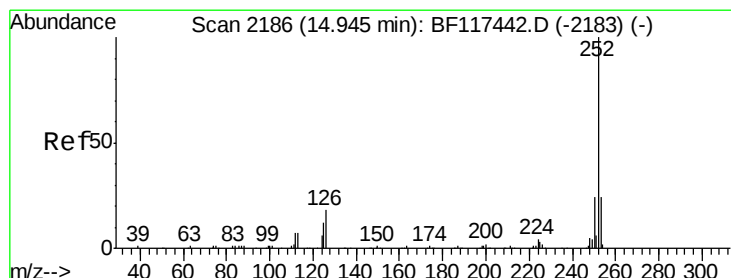
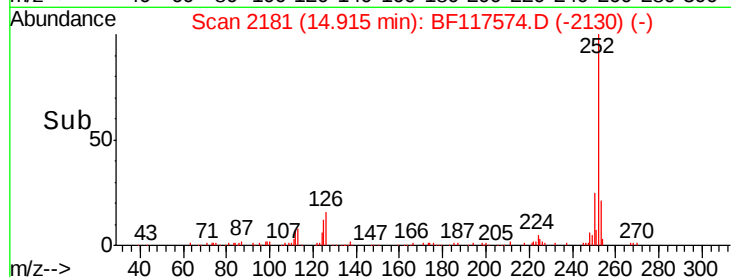
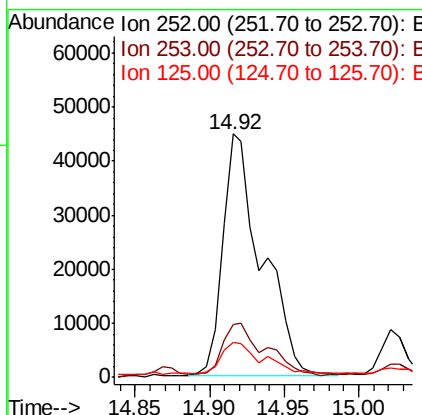
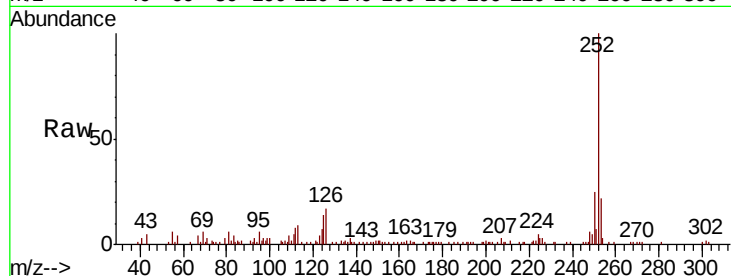




#88
Benzo(b)fluoranthene
Concen: 16.081 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.00 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

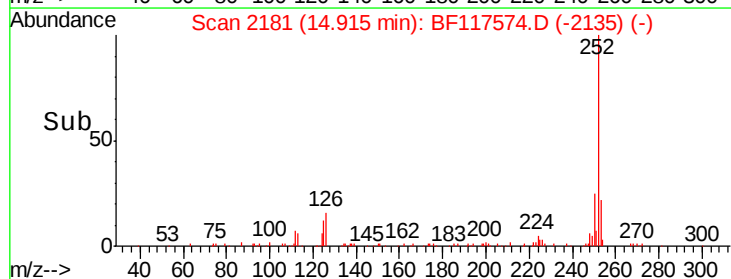
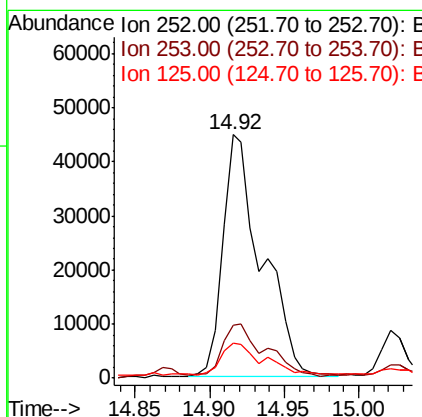
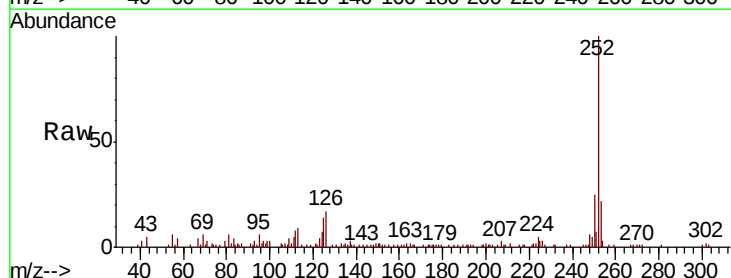
Instrument :
BNA_E
ClientSampleId :

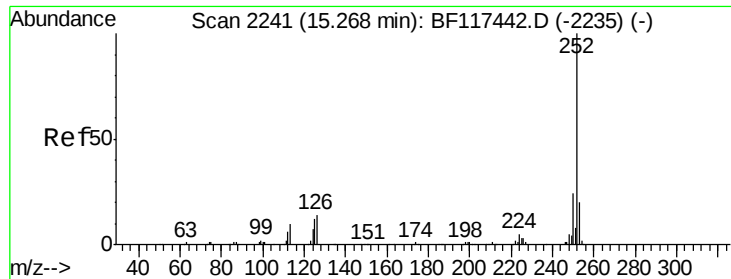
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	14.1	9.9	14.9



#89
Benzo(k)fluoranthene
Concen: 15.690 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.03 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	14.1	8.9	13.3#

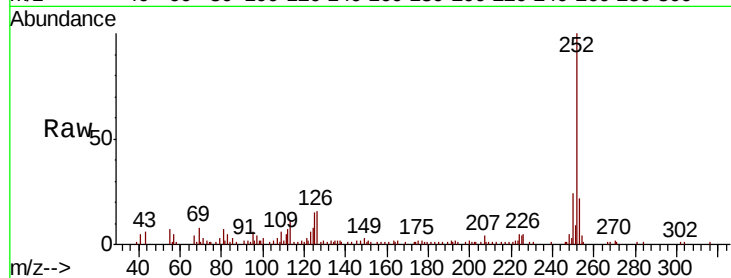




#90
Benzo(a)pyrene
Concen: 9.257 ng
RT: 15.27 min Scan# 2241
Delta R.T. -0.00 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Instrument :
BNA_E
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	16.3	24.5
125	15.5	9.2	13.8

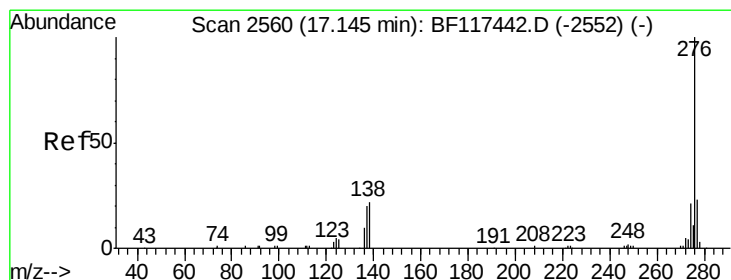
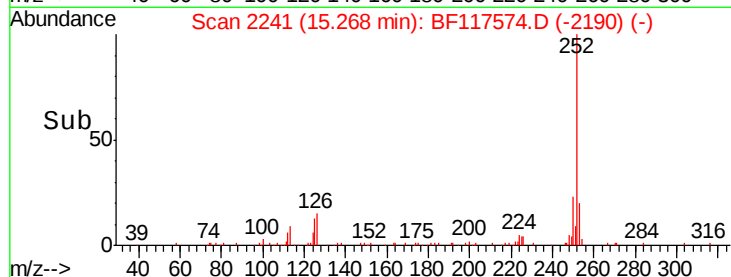
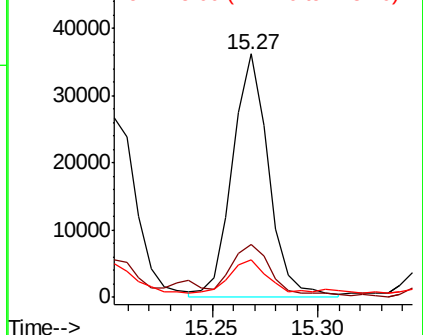


Abundance

Ion 252.00 (251.70 to 252.70): E

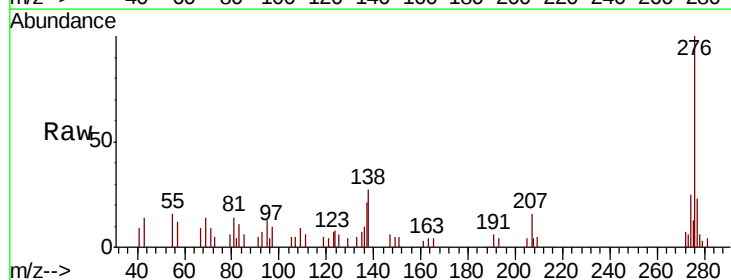
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 5.941 ng
RT: 17.17 min Scan# 2565
Delta R.T. 0.03 min
Lab File: BF117574.D
Acq: 28 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.4	27.6
138	26.6	17.8	26.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

