

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073119\
 Data File : BF115871.D
 Acq On : 31 Jul 2019 17:39
 Operator : HP/JU
 Sample : K4049-12
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-12

Quant Time: Aug 01 04:56:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	124930	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	472309	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	243706	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	410813	20.00	ng	0.00
76) Chrysene-d12	14.02	240	267298	20.00	ng	0.00
87) Perylene-d12	15.49	264	352927	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	795056	106.54	ng	0.00
7) Phenol-d6	6.48	99	1050026	111.52	ng	0.00
23) Nitrobenzene-d5	7.41	82	649854	79.42	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	253627	107.34	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	1058626	81.36	ng	0.00
79) Terphenyl-d14	12.96	244	917780	72.35	ng	0.00

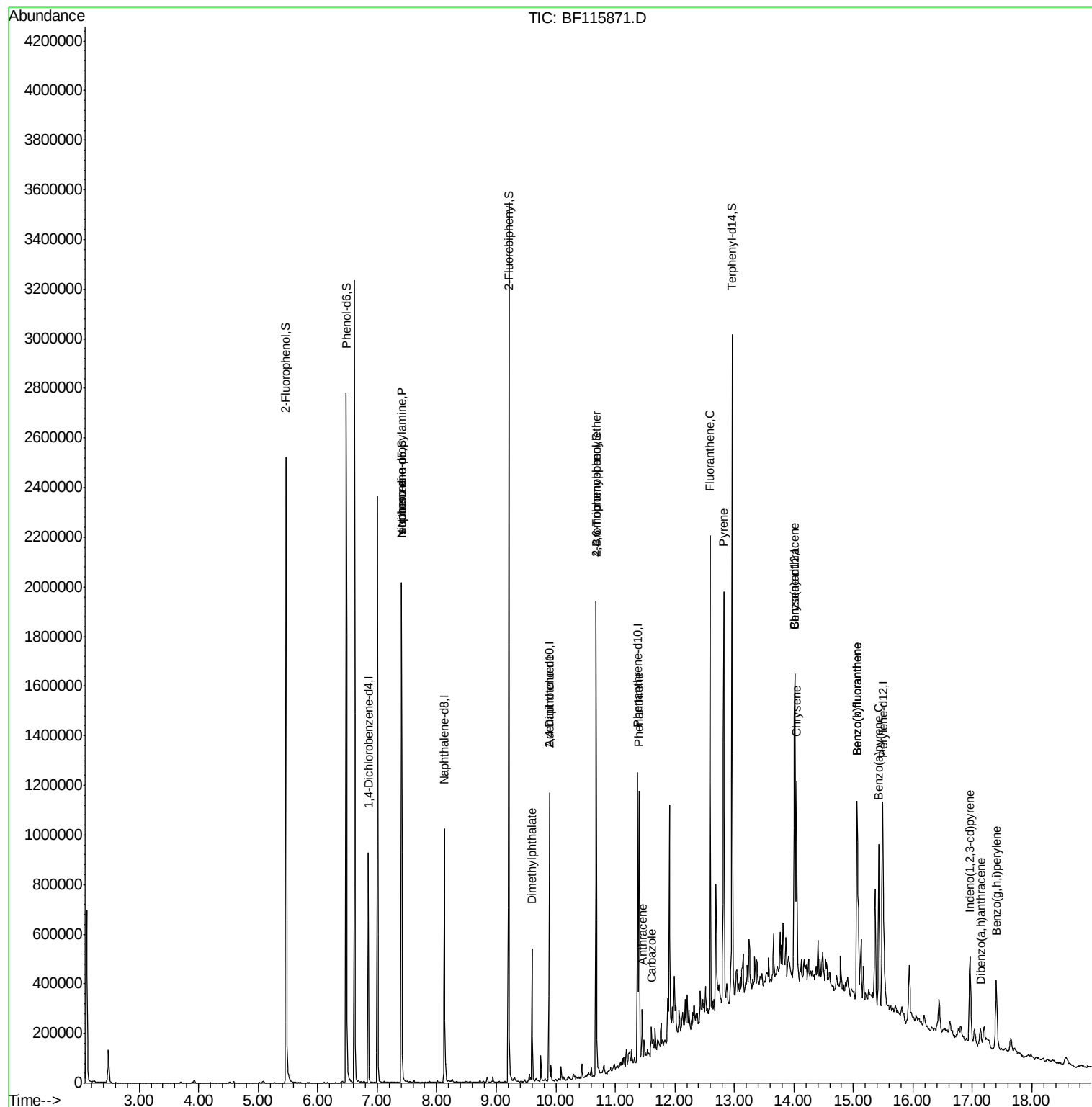
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.41	70	86602	14.843	ng	# 79
25) Isophorone	7.41	82	649845	41.535	ng	# 66
50) Dimethylphthalate	9.60	163	206499	12.444	ng	98
57) 2,4-Dinitrotoluene	9.89	165	31024	6.462	ng	# 25
67) 4-Bromophenyl-phenylether	10.68	248	14957	3.401	ng	# 1
71) Phenanthrene	11.40	178	387512	18.452	ng	99
72) Anthracene	11.45	178	73750	3.470	ng	100
73) Carbazole	11.61	167	40726	2.112	ng	99
75) Fluoranthene	12.59	202	688322	31.306	ng	99
78) Pyrene	12.82	202	631062	31.319	ng	99
81) Benzo(a)anthracene	14.01	228	310571	18.178	ng	97
83) Chrysene	14.04	228	295172	17.796	ng	98
86) Indeno(1,2,3-cd)pyrene	16.96	276	235595	16.912	ng	95
88) Benzo(b)fluoranthene	15.06	252	573897	28.123	ng	# 97
89) Benzo(k)fluoranthene	15.06	252	573897	28.873	ng	99
90) Benzo(a)pyrene	15.43	252	302817	16.600	ng	98
91) Dibenzo(a,h)anthracene	17.13	278	45495	2.881	ng	96
92) Benzo(g,h,i)perylene	17.40	276	231249	14.912	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

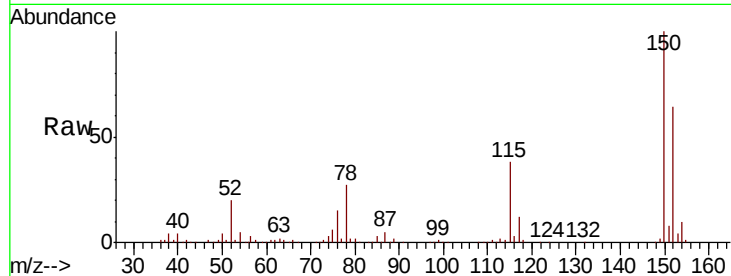
Tgt Ion:152 Resp: 124930

Ion Ratio Lower Upper

152 100

150 156.7 127.4 191.0

115 59.7 51.8 77.8

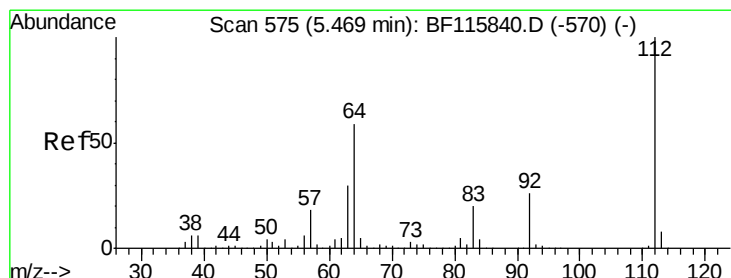
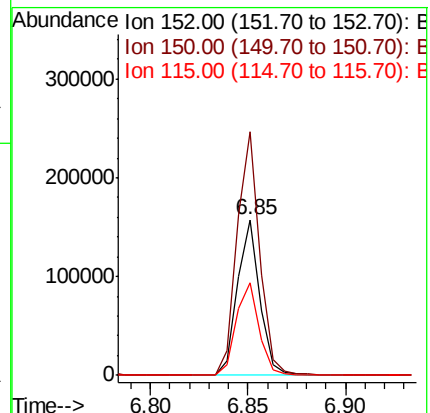
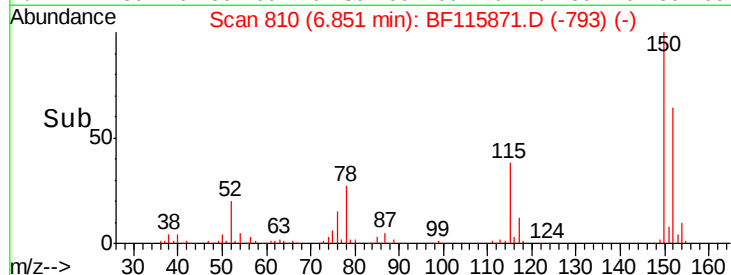


Abundance

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: 106.537 ng

RT: 5.47 min Scan# 576

Delta R.T. 0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

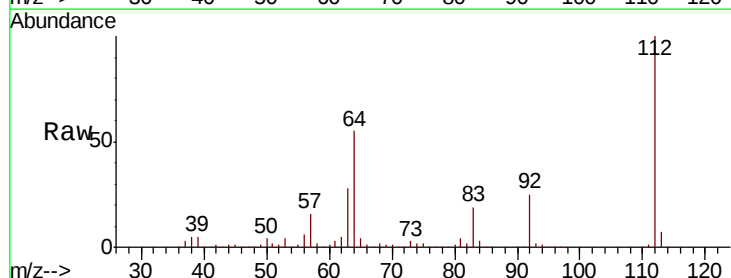
Tgt Ion:112 Resp: 795056

Ion Ratio Lower Upper

112 100

64 54.8 46.8 70.2

63 28.5 24.2 36.2

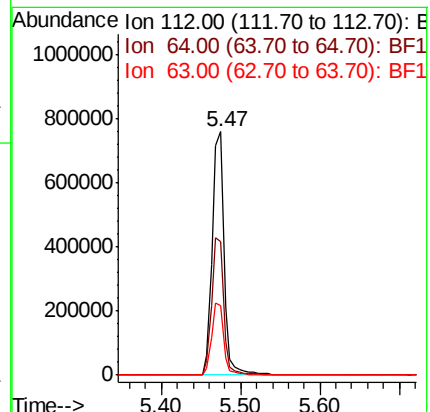
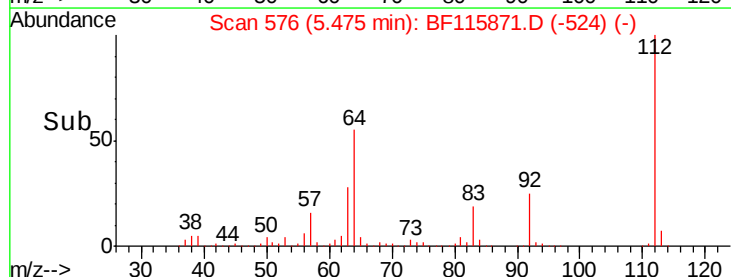


Abundance

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: 111.521 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

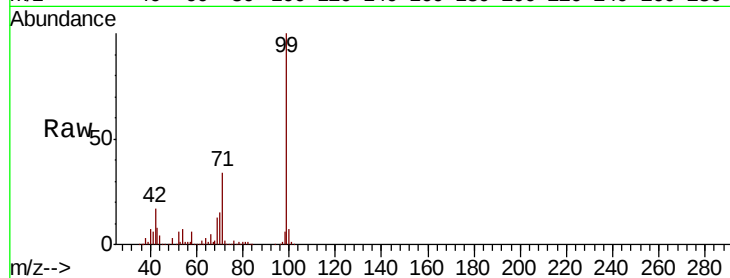
Tgt Ion: 99 Resp: 1050026

Ion Ratio Lower Upper

99 100

42 17.2 13.8 20.6

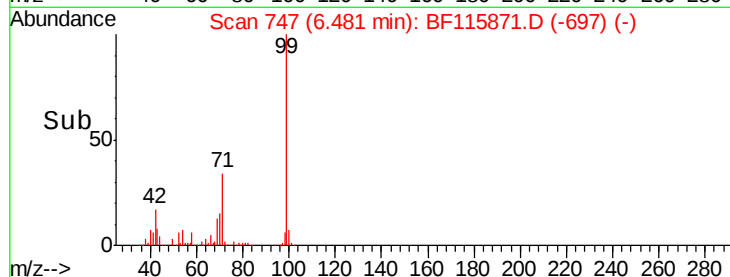
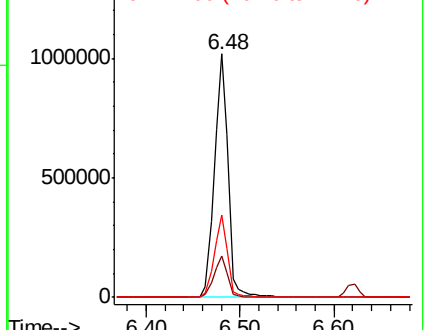
71 34.1 27.1 40.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.843 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Tgt Ion: 70 Resp: 86602

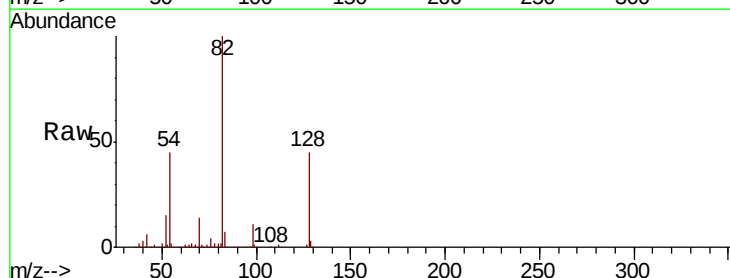
Ion Ratio Lower Upper

70 100

42 44.5 41.8 62.8

101 0.0 7.7 11.5#

130 2.5 17.8 26.6#

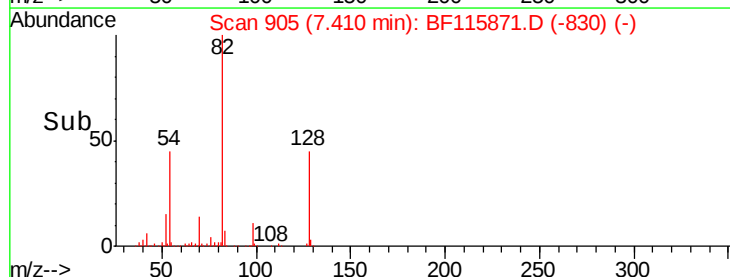
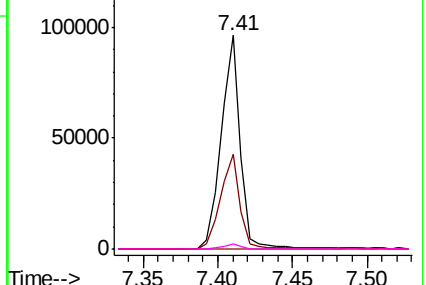


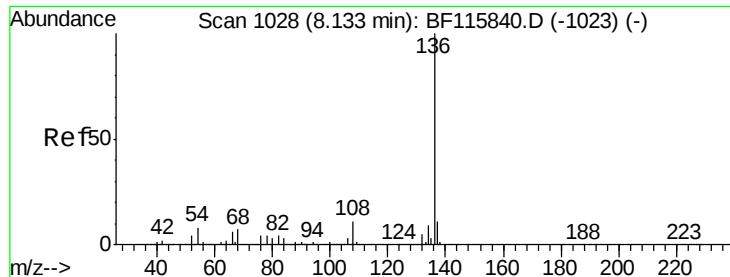
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

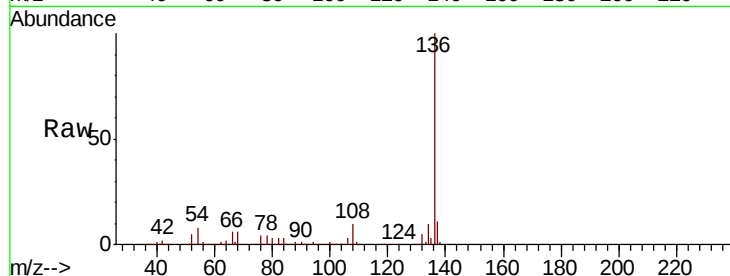




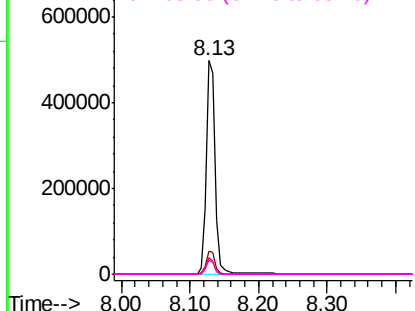
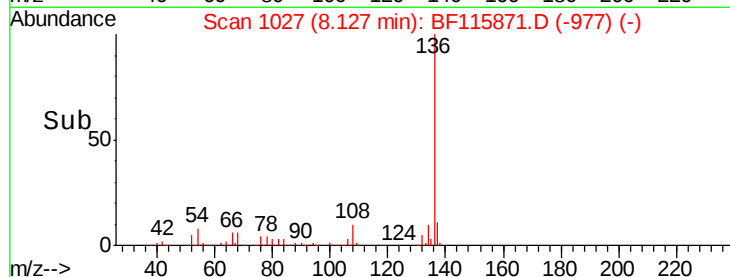
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF115871.D
Acq: 31 Jul 2019 17:39

Instrument :
BNA_F
ClientSampleId :
SP-12

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	7.7	6.1	9.1
68	6.3	5.4	8.2

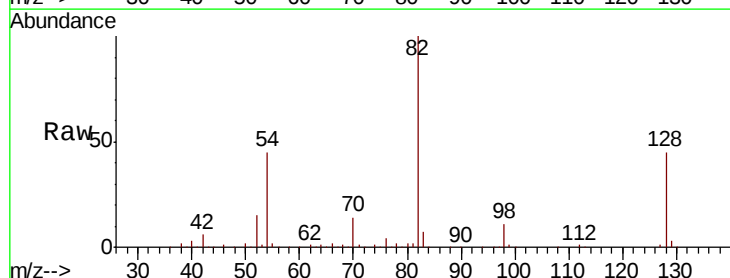


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

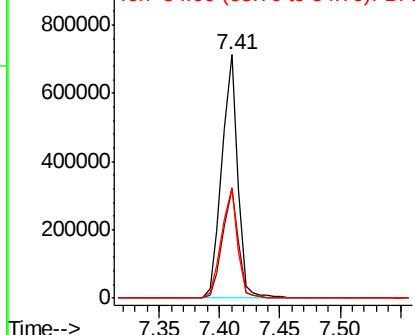
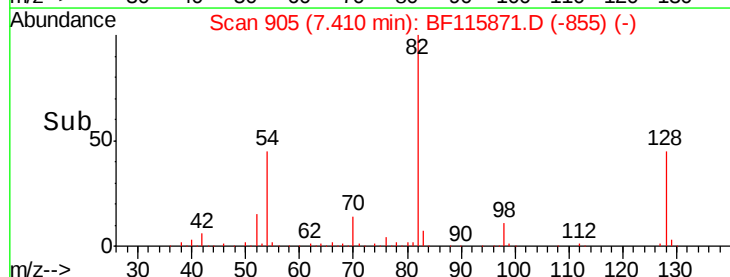


#23
Nitrobenzene-d5
Concen: 79.422 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF115871.D
Acq: 31 Jul 2019 17:39

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.6	55.0
54	45.4	36.6	55.0



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: 41.535 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampled :

SP-12

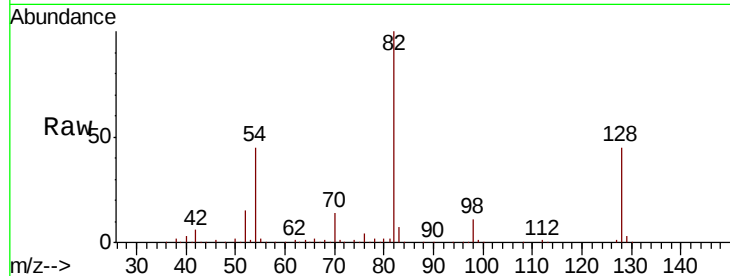
Tgt Ion: 82 Resp: 649845

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

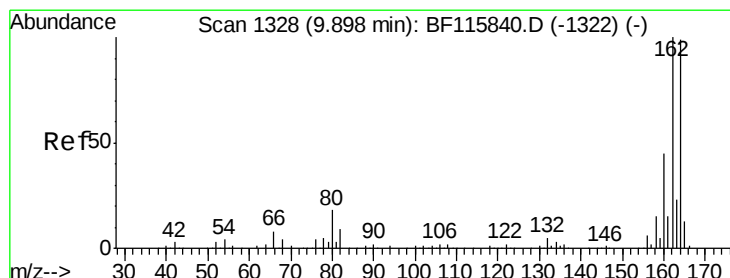
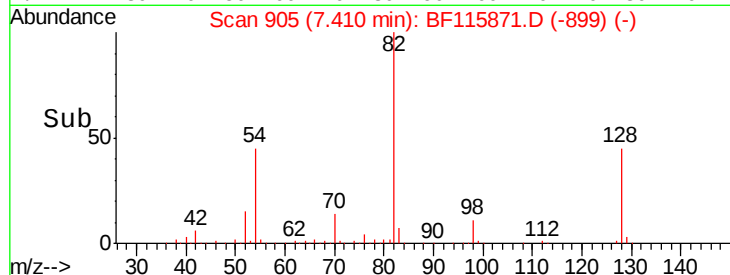
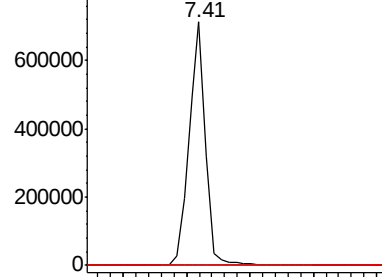
138 0.0 13.9 20.9#



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: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

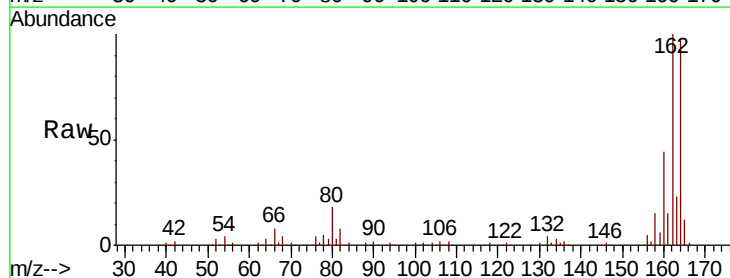
Tgt Ion: 164 Resp: 243706

Ion Ratio Lower Upper

164 100

162 102.9 80.8 121.2

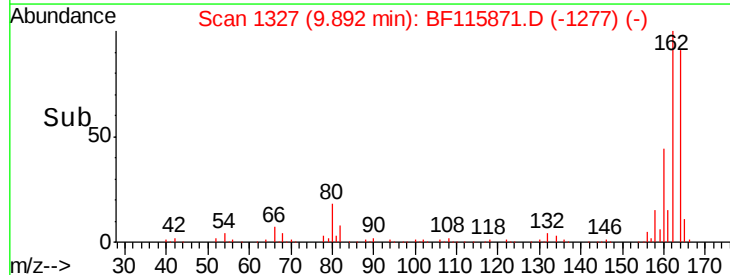
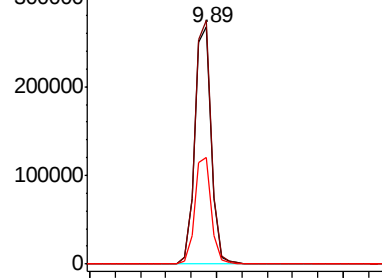
160 45.3 36.2 54.4



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: 107.342 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

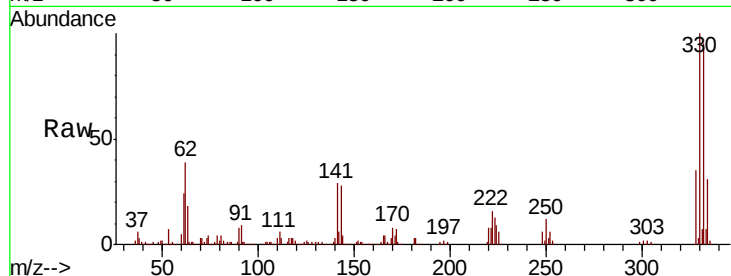
Tgt Ion:330 Resp: 253627

Ion Ratio Lower Upper

330 100

332 95.4 77.7 116.5

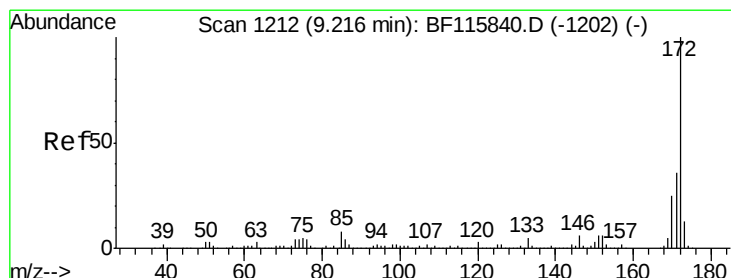
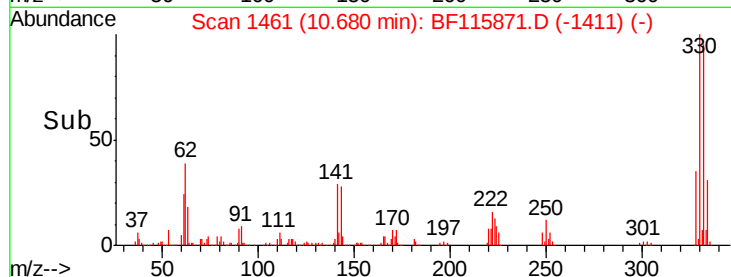
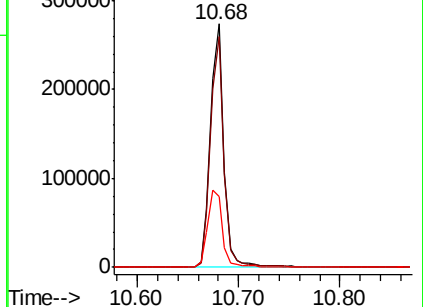
141 34.4 28.1 42.1



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: 81.364 ng

RT: 9.21 min Scan# 1211

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

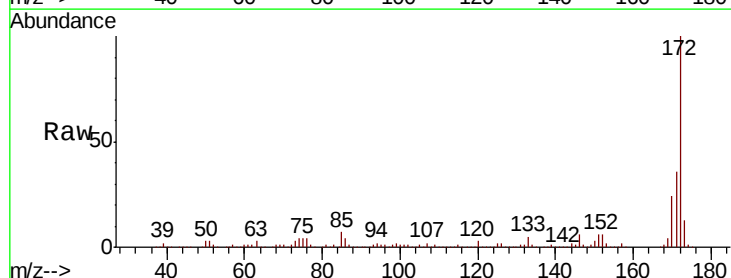
Tgt Ion:172 Resp: 1058626

Ion Ratio Lower Upper

172 100

171 35.6 29.1 43.7

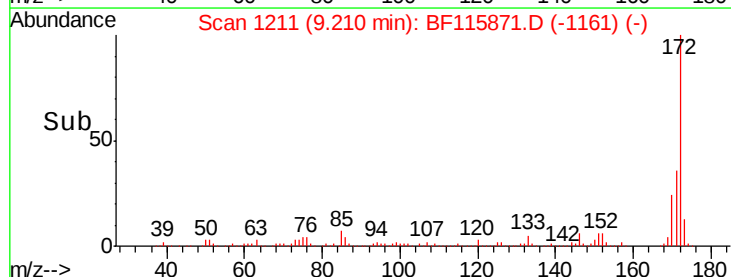
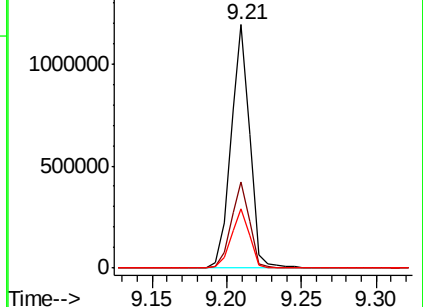
170 24.4 20.1 30.1

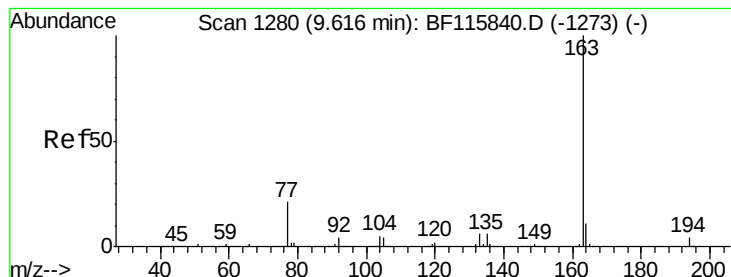


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 12.444 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF115871.D

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SP-12

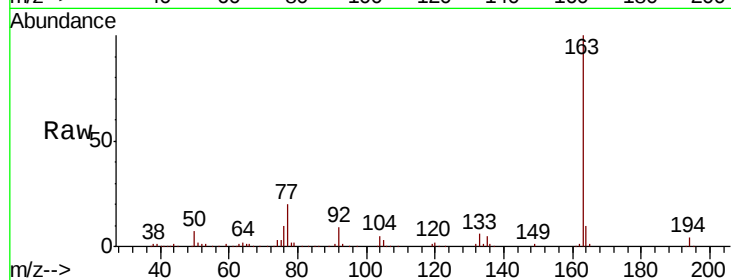
Tgt Ion:163 Resp: 206499

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.6

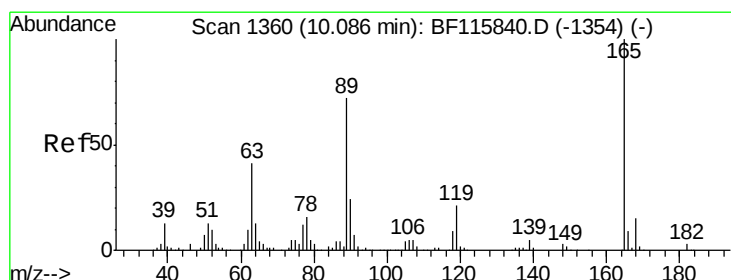
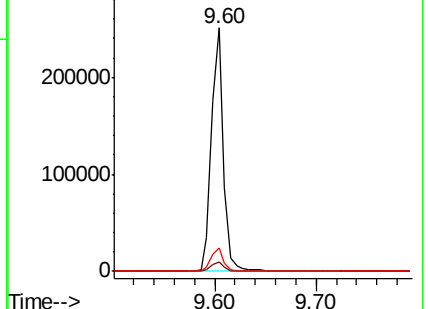
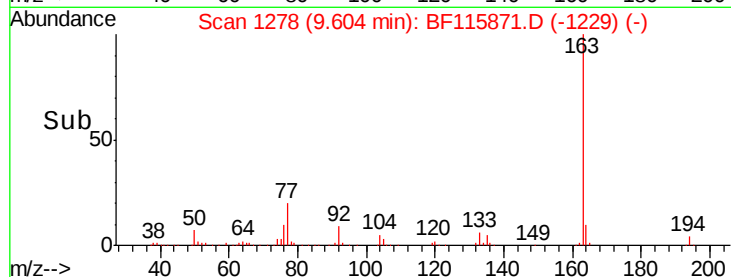
164 9.7 8.4 12.6



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



#57

2,4-Dinitrotoluene

Concen: 6.462 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.20 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Tgt Ion:165 Resp: 31024

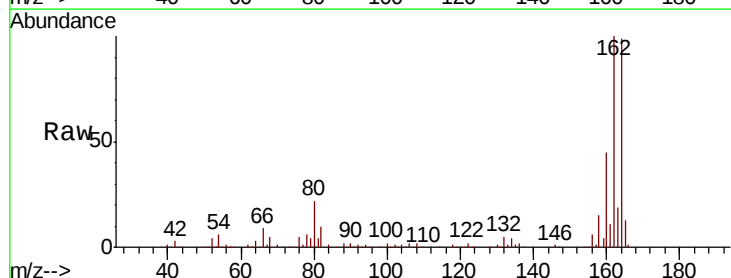
Ion Ratio Lower Upper

165 100

63 1.1 33.2 49.8#

89 1.5 57.3 85.9#

182 0.0 2.1 3.1#

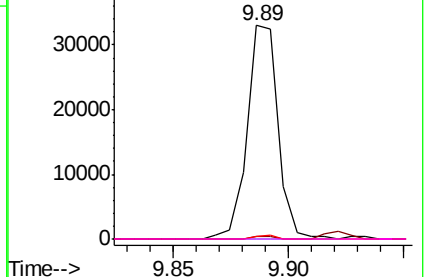
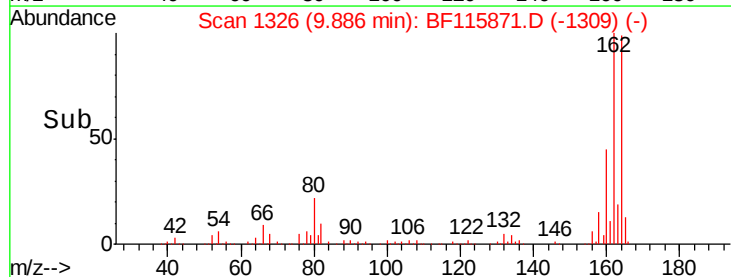


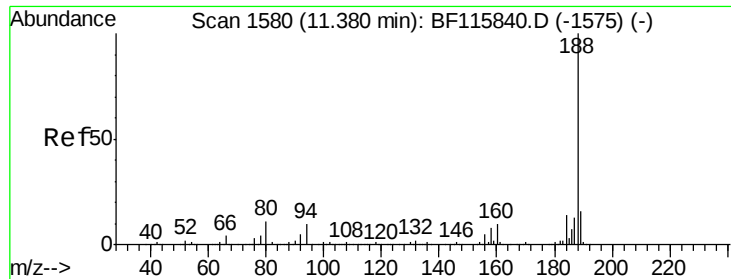
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

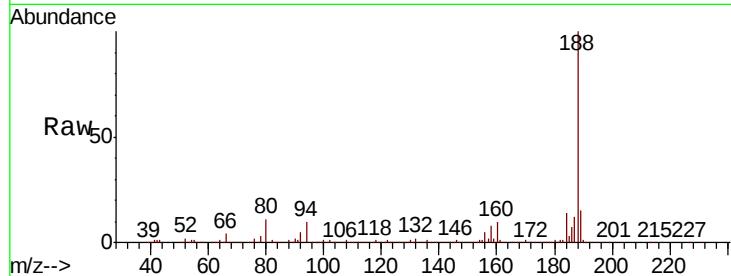
Tgt Ion:188 Resp: 410813

Ion Ratio Lower Upper

188 100

94 10.0 8.0 12.0

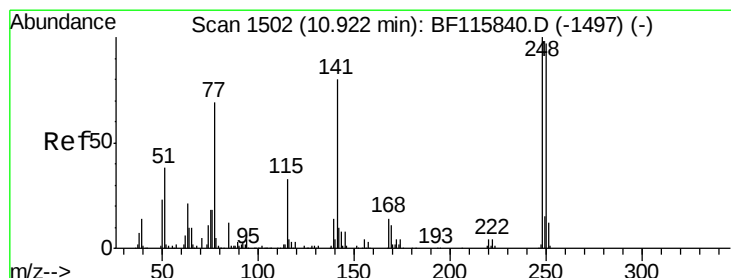
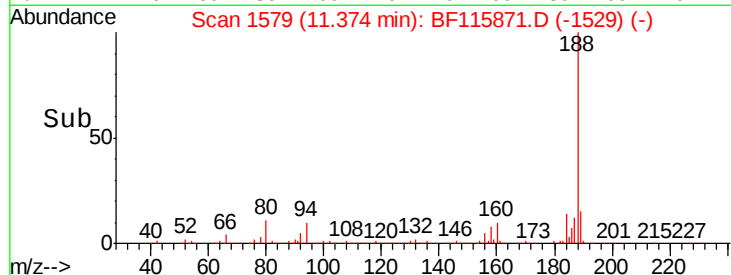
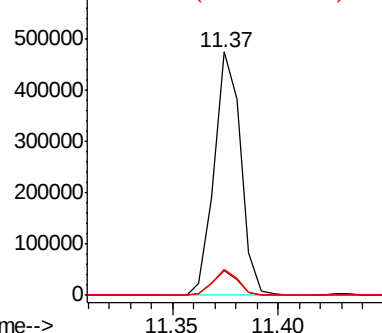
80 10.8 8.6 12.8



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



#67

4-Bromophenyl-phenylether

Concen: 3.401 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.24 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

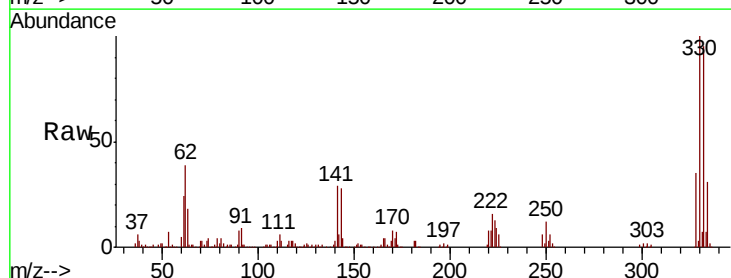
Tgt Ion:248 Resp: 14957

Ion Ratio Lower Upper

248 100

250 209.0 77.8 116.6#

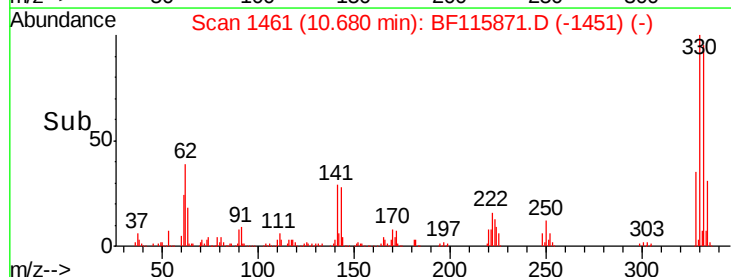
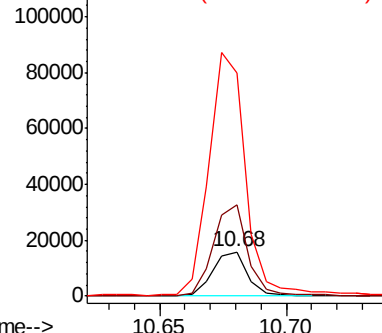
141 506.6 64.3 96.5#

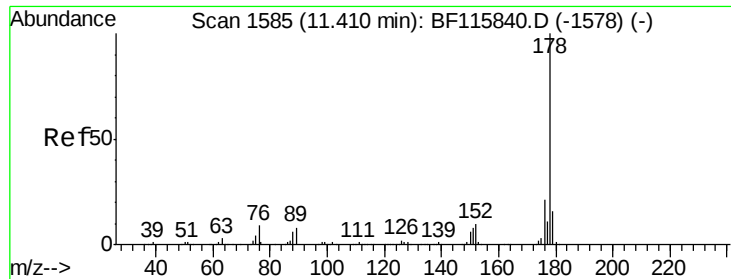


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 18.452 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

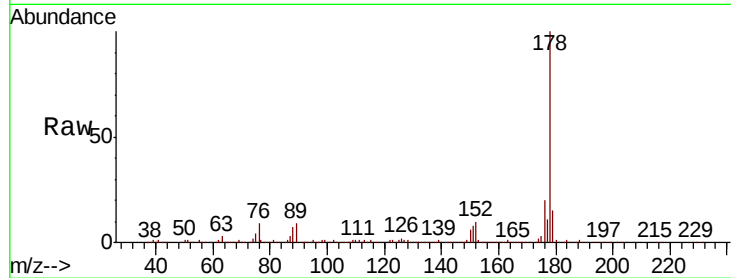
Tgt Ion:178 Resp: 387512

Ion Ratio Lower Upper

178 100

176 19.9 16.5 24.7

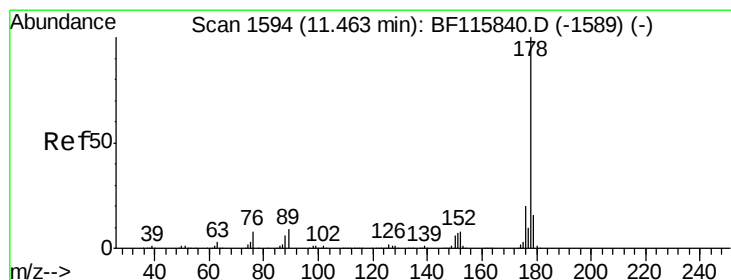
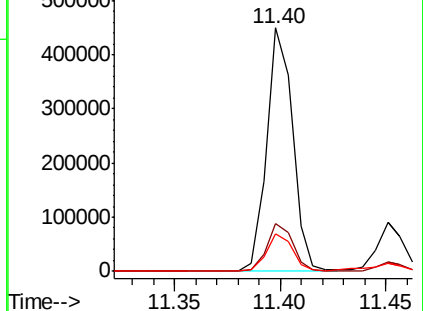
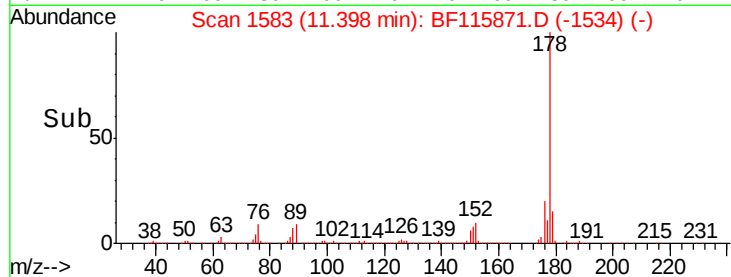
179 15.4 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 3.470 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

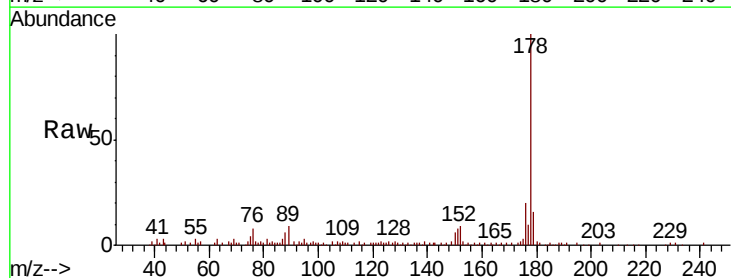
Tgt Ion:178 Resp: 73750

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

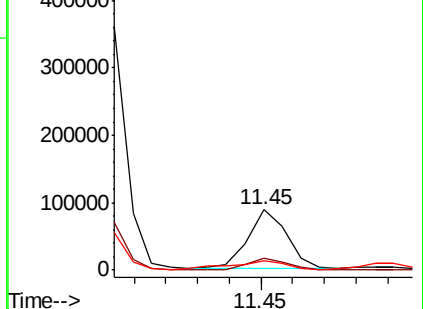
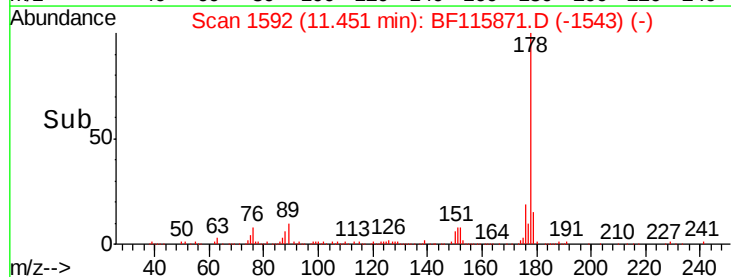
179 15.9 12.4 18.6

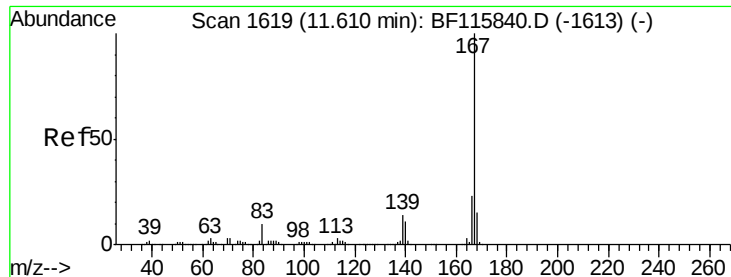


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

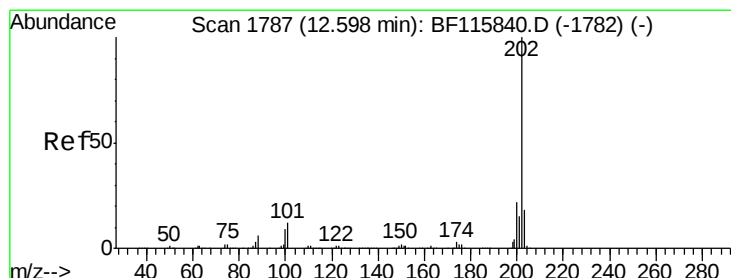
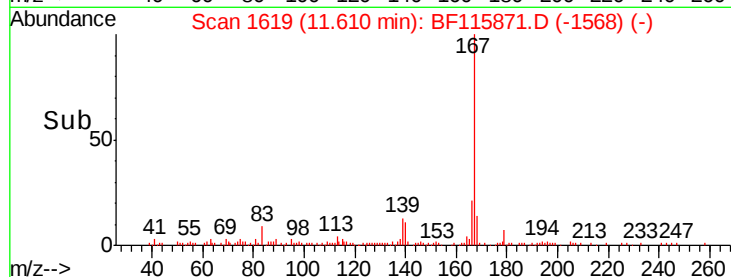
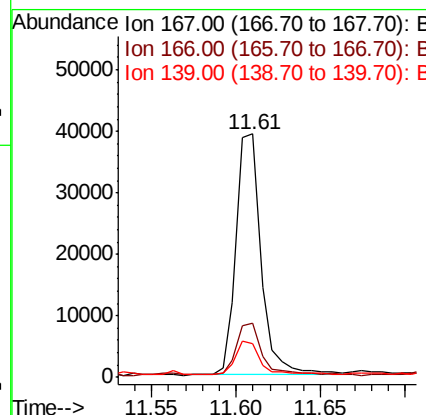
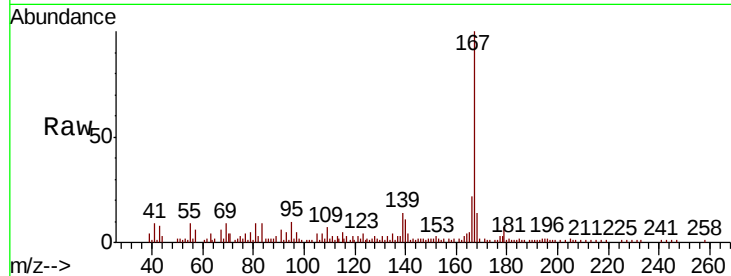




#73
 Carbazole
 Concen: 2.112 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BF115871.D
 Acq: 31 Jul 2019 17:39

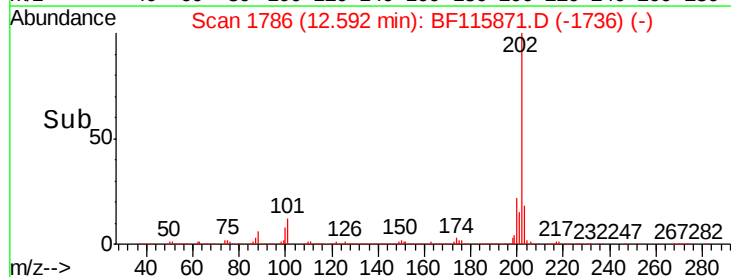
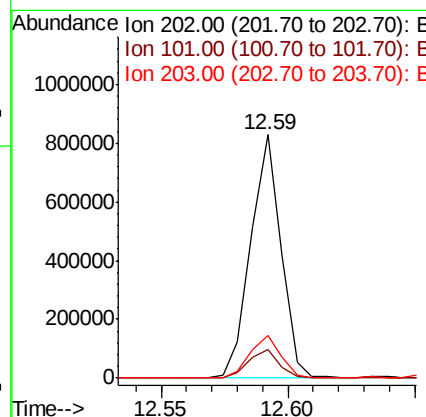
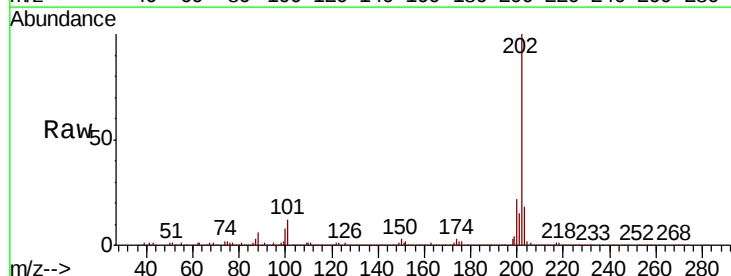
Instrument :
 BNA_F
 ClientSampled :
 SP-12

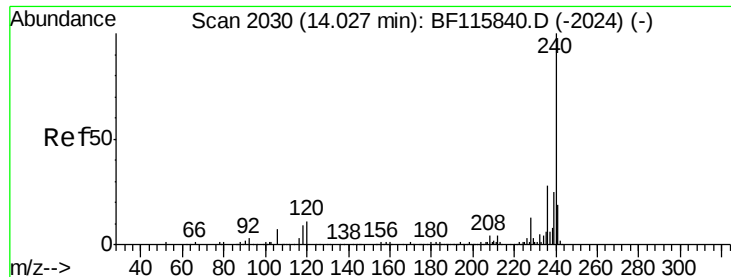
Tgt Ion:167 Resp: 40726
 Ion Ratio Lower Upper
 167 100
 166 22.1 18.0 27.0
 139 13.6 11.4 17.2



#75
 Fluoranthene
 Concen: 31.306 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. -0.01 min
 Lab File: BF115871.D
 Acq: 31 Jul 2019 17:39

Tgt Ion:202 Resp: 688322
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 31.5
 203 17.8 0.0 37.9

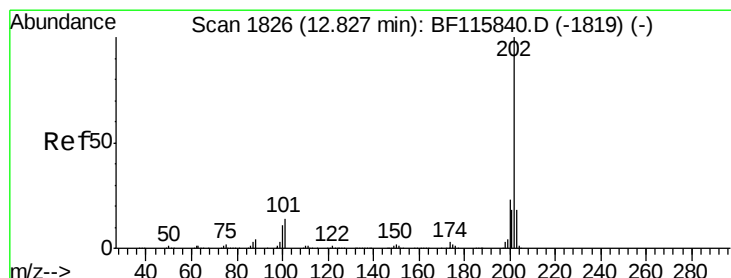
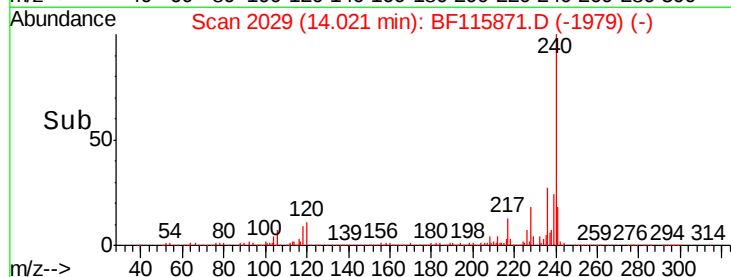
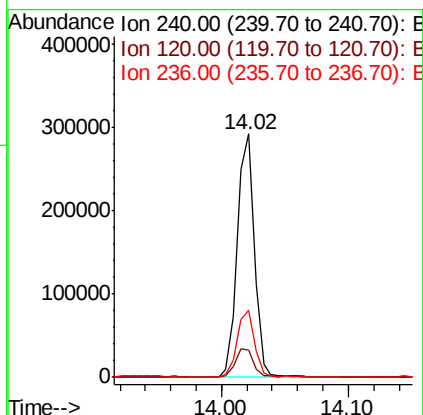
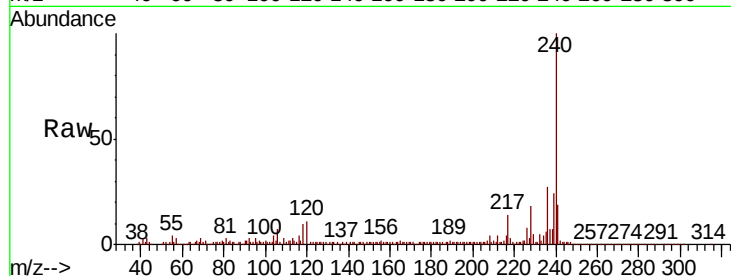




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF115871.D
Acq: 31 Jul 2019 17:39

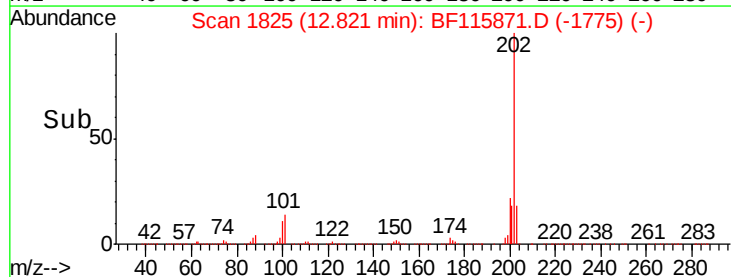
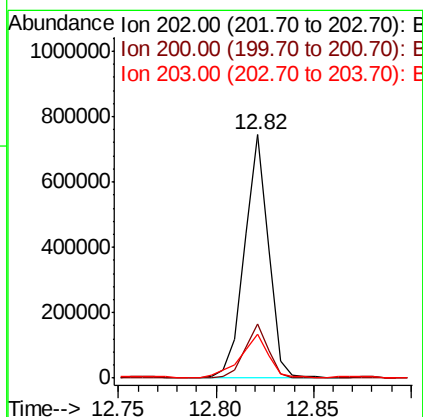
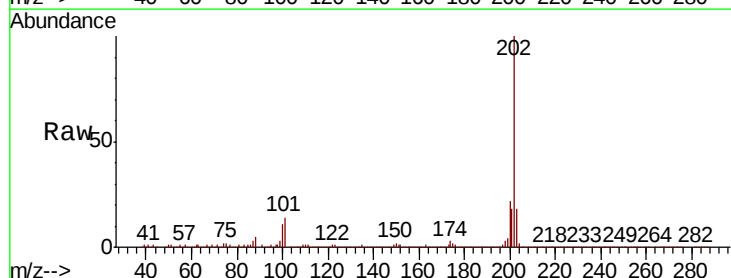
Instrument :
BNA_F
ClientSampleId :
SP-12

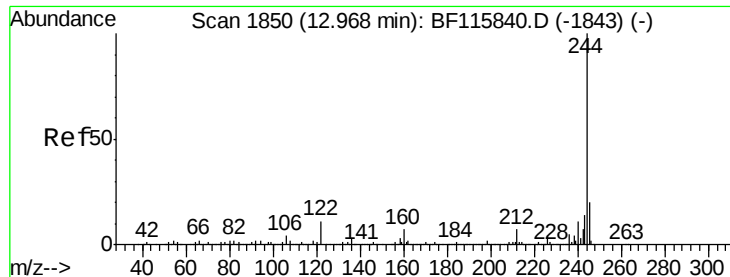
Tgt Ion:240 Resp: 267298
Ion Ratio Lower Upper
240 100
120 11.2 8.5 12.7
236 27.3 22.2 33.2



#78
Pyrene
Concen: 31.319 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF115871.D
Acq: 31 Jul 2019 17:39

Tgt Ion:202 Resp: 631062
Ion Ratio Lower Upper
202 100
200 22.0 18.2 27.2
203 18.1 14.3 21.5





#79

Terphenyl-d14

Concen: 72.350 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

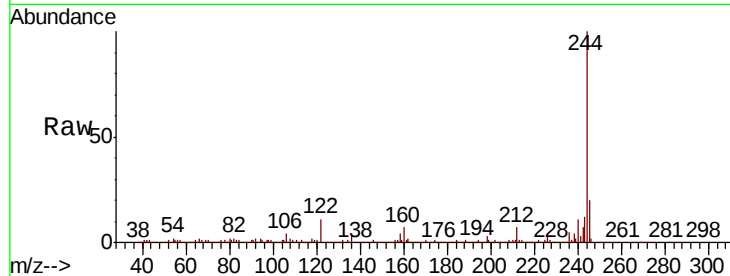
Tgt Ion:244 Resp: 917780

Ion Ratio Lower Upper

244 100

212 7.2 5.6 8.4

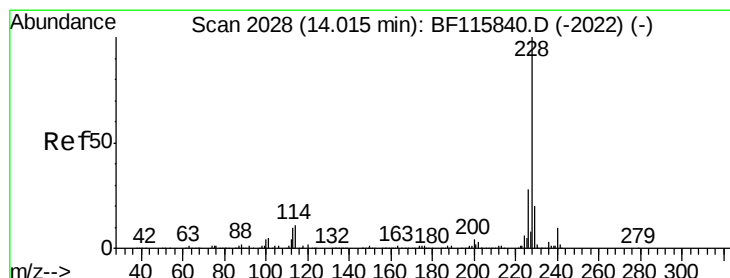
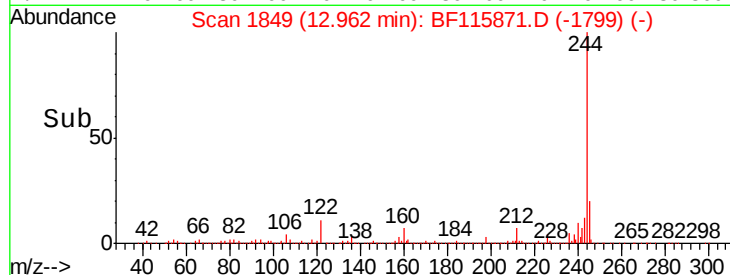
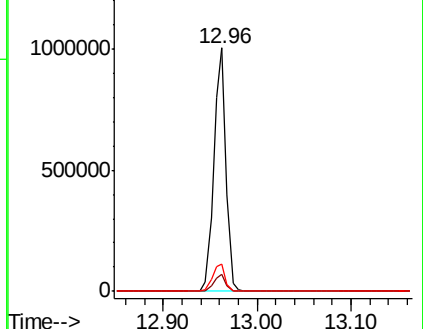
122 11.2 8.6 13.0



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: 18.178 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

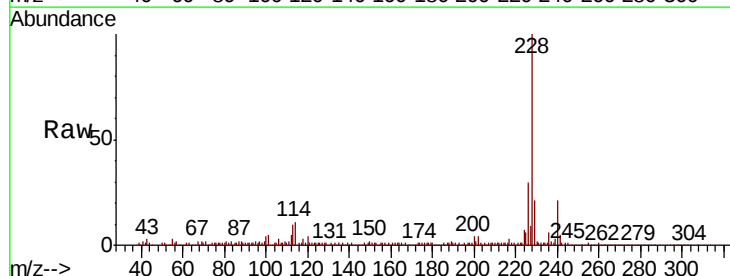
Tgt Ion:228 Resp: 310571

Ion Ratio Lower Upper

228 100

226 30.2 22.5 33.7

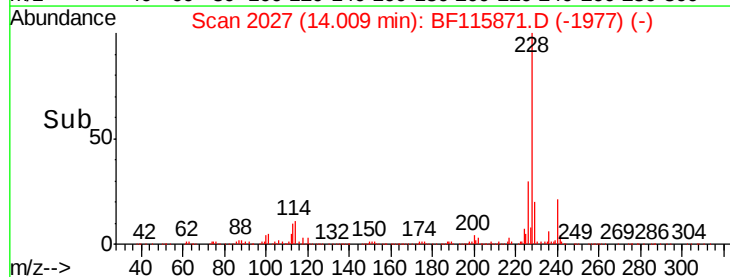
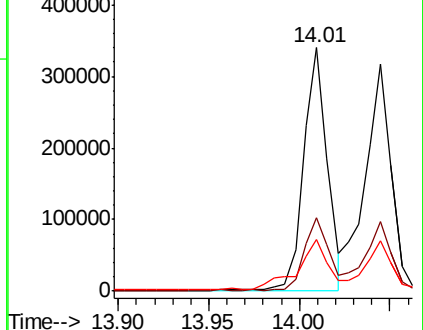
229 21.2 16.1 24.1

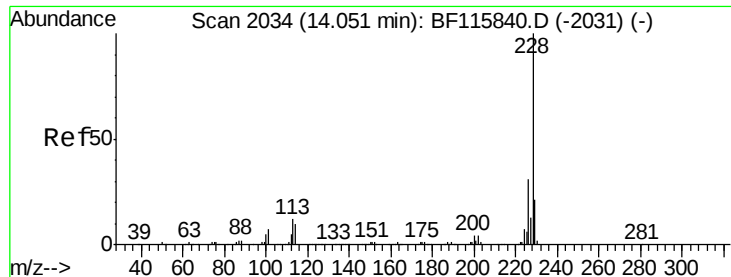


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 17.796 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

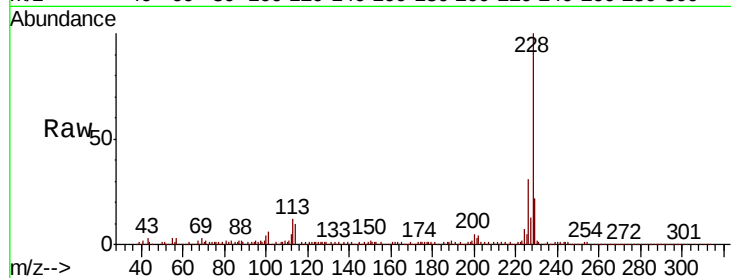
Tgt Ion:228 Resp: 295172

Ion Ratio Lower Upper

228 100

226 30.6 24.8 37.2

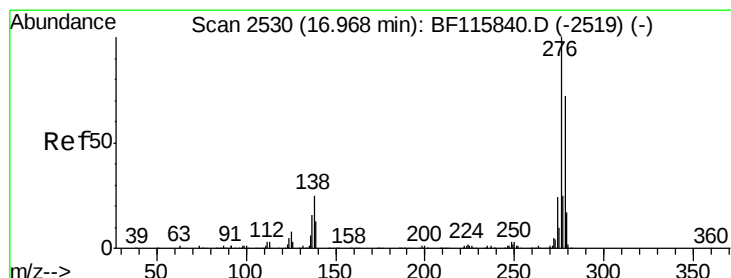
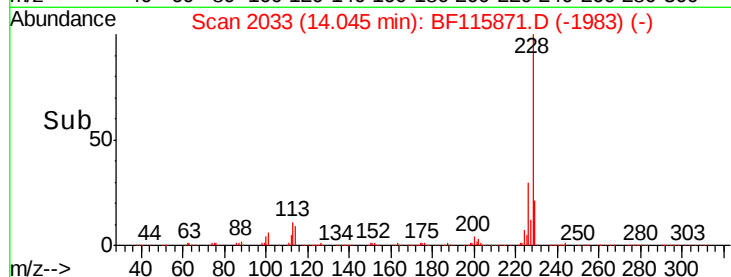
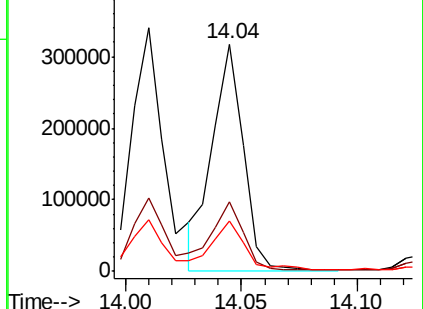
229 22.2 16.4 24.6



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 16.912 ng

RT: 16.96 min Scan# 2528

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

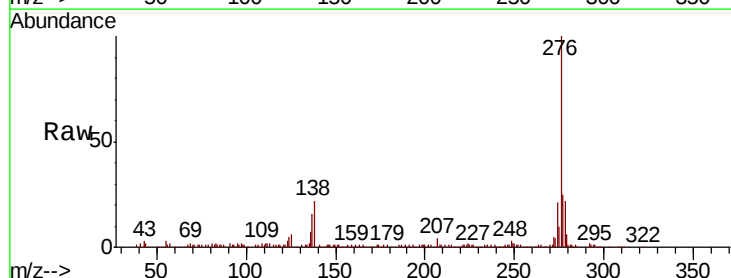
Tgt Ion:276 Resp: 235595

Ion Ratio Lower Upper

276 100

138 20.8 19.6 29.4

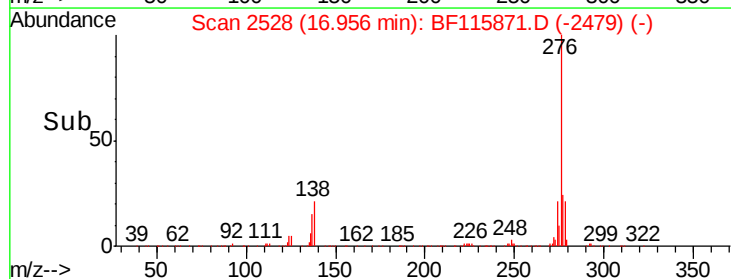
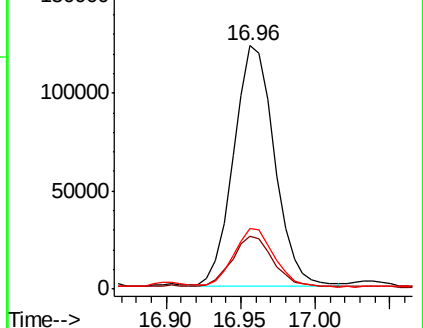
277 23.7 20.1 30.1

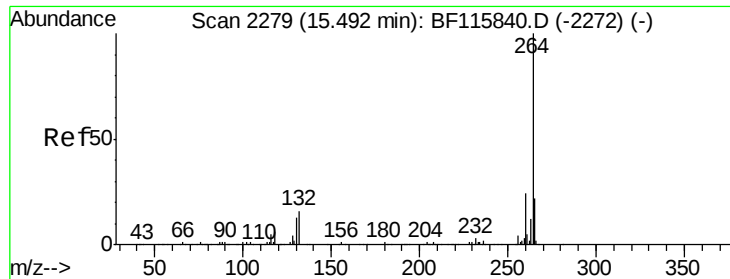


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.00 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

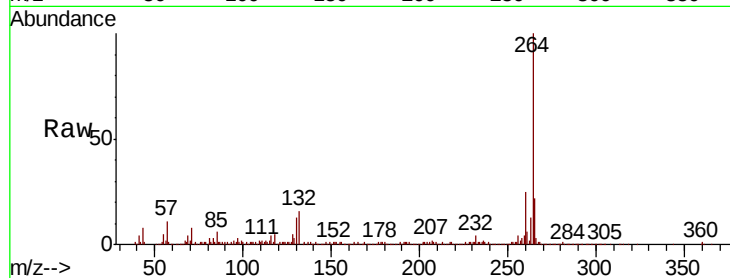
Tgt Ion:264 Resp: 352927

Ion Ratio Lower Upper

264 100

260 24.8 19.4 29.2

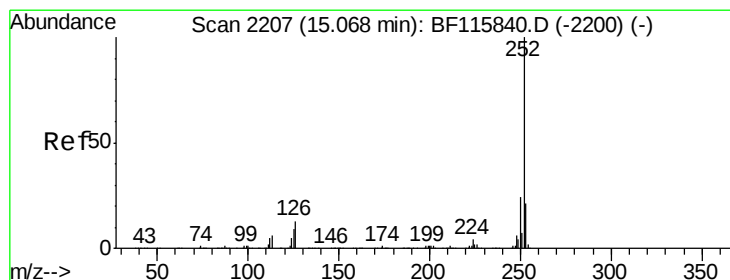
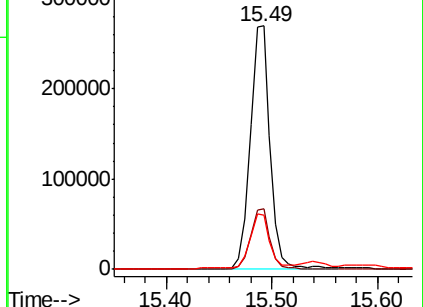
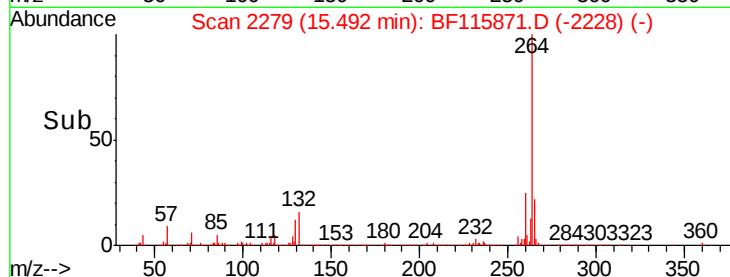
265 22.1 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 28.123 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

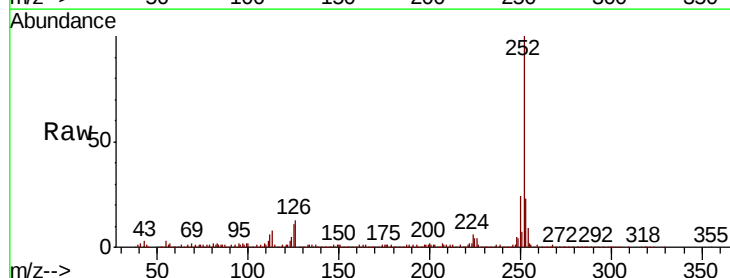
Tgt Ion:252 Resp: 573897

Ion Ratio Lower Upper

252 100

253 22.5 17.2 25.8

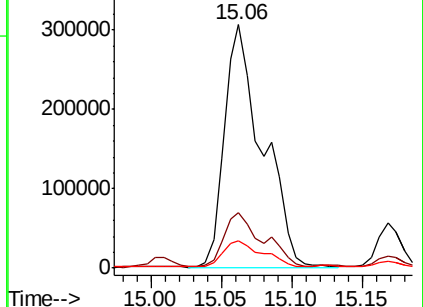
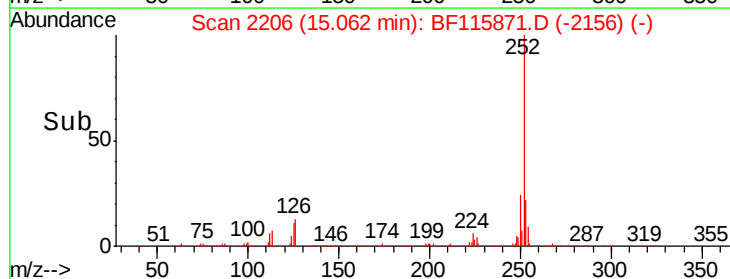
125 11.4 7.4 11.0#

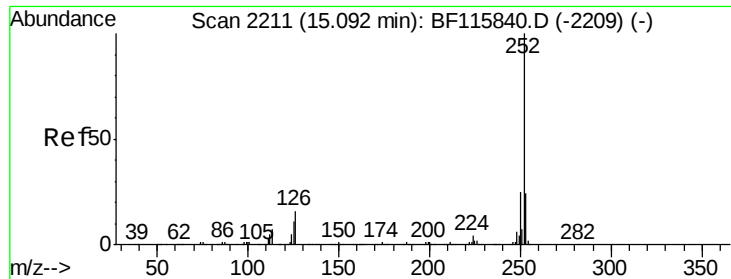


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

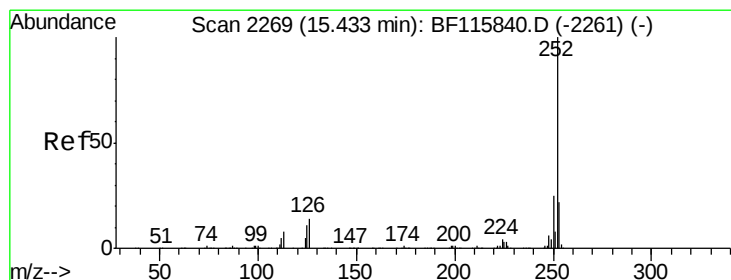
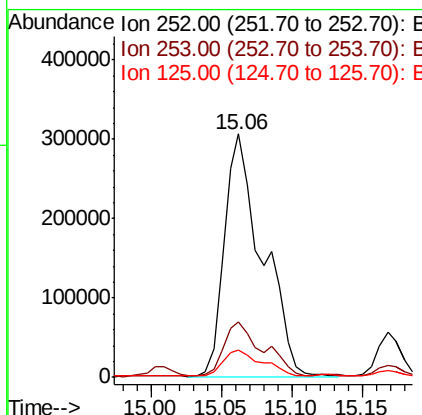
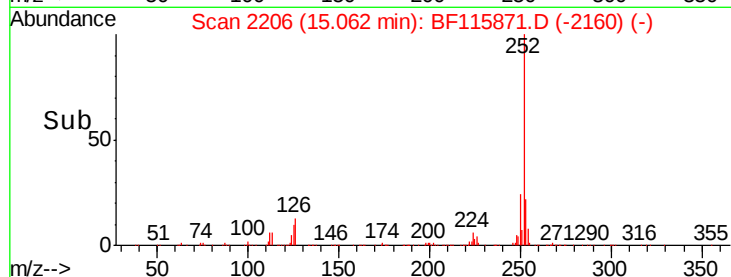
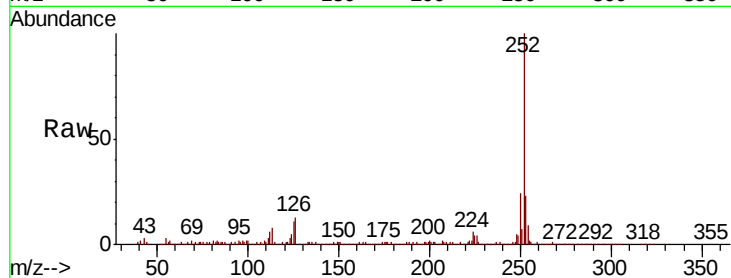




#89
Benzo(k)fluoranthene
Concen: 28.873 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF115871.D
Acq: 31 Jul 2019 17:39

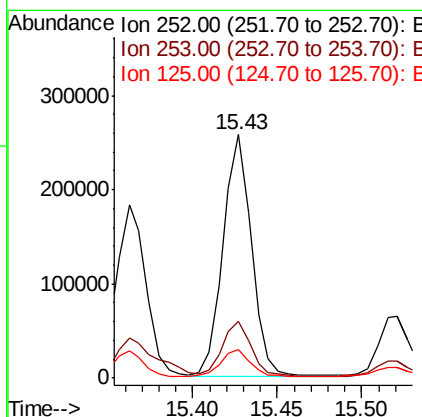
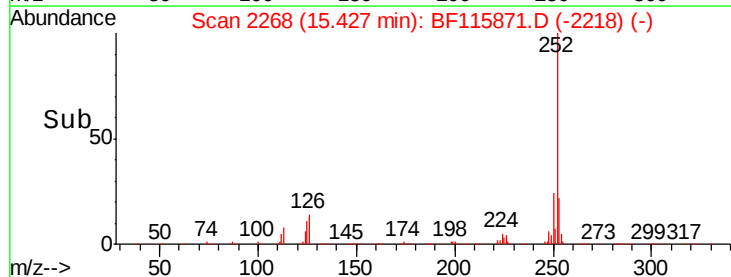
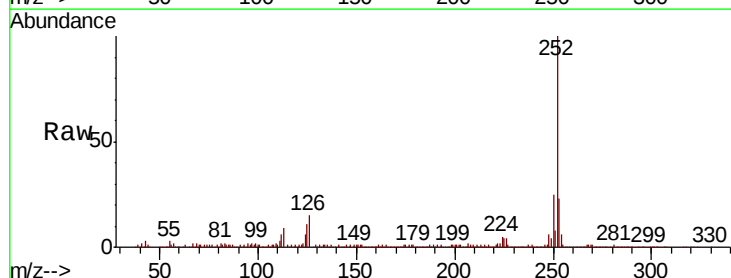
Instrument :
BNA_F
ClientSampleId :
SP-12

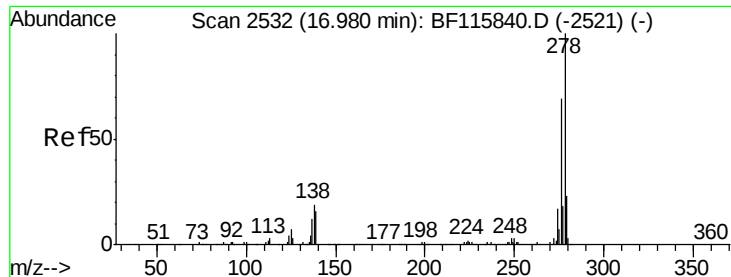
Tgt Ion:252 Resp: 573897
Ion Ratio Lower Upper
252 100
253 22.5 18.2 27.4
125 11.4 8.9 13.3



#90
Benzo(a)pyrene
Concen: 16.600 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF115871.D
Acq: 31 Jul 2019 17:39

Tgt Ion:252 Resp: 302817
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.6
125 11.5 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 2.881 ng

RT: 17.13 min Scan# 2558

Delta R.T. 0.15 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

Instrument :

BNA_F

ClientSampleId :

SP-12

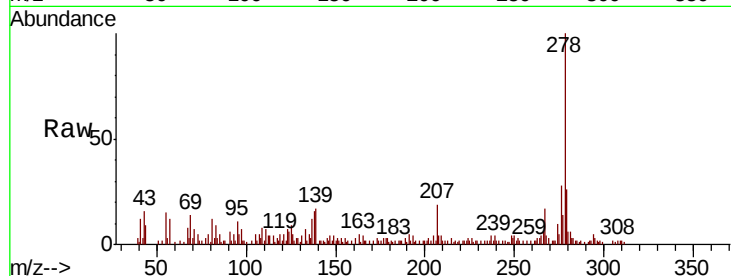
Tgt Ion:278 Resp: 45495

Ion Ratio Lower Upper

278 100

139 17.4 12.6 19.0

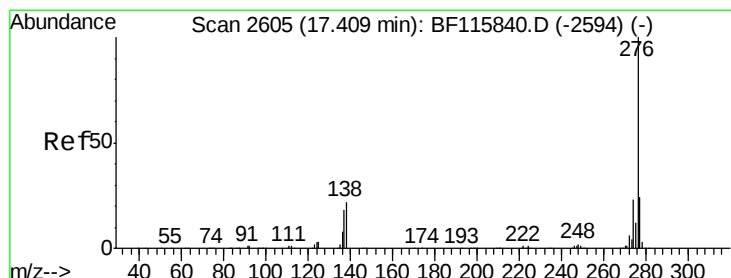
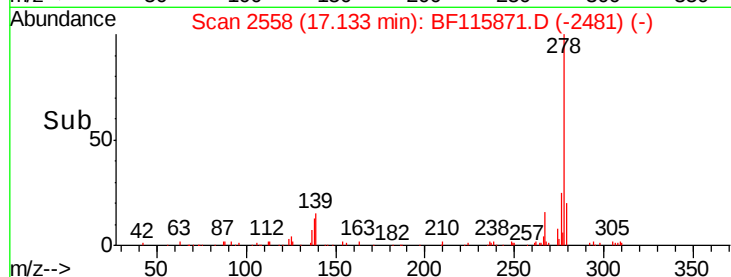
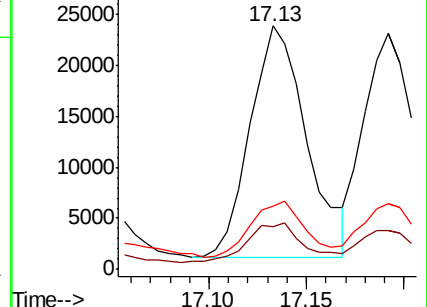
279 25.9 18.8 28.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 14.912 ng

RT: 17.40 min Scan# 2604

Delta R.T. -0.01 min

Lab File: BF115871.D

Acq: 31 Jul 2019 17:39

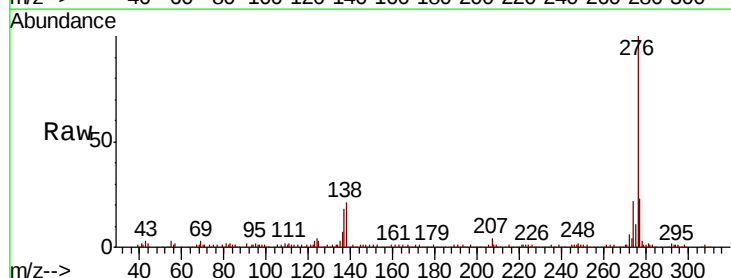
Tgt Ion:276 Resp: 231249

Ion Ratio Lower Upper

276 100

277 23.3 19.5 29.3

138 20.5 17.8 26.8



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

