

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040119\
 Data File : BF113469.D
 Acq On : 1 Apr 2019 16:28
 Operator : JU/SJ
 Sample : K2056-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-10

Quant Time: Apr 02 01:07:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	136729	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	508934	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	241069	20.00	ng	0.00
64) Phenanthrene-d10	11.22	188	463467	20.00	ng	0.00
76) Chrysene-d12	13.84	240	355680	20.00	ng	0.00
87) Perylene-d12	15.25	264	408716	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	935230	111.84	ng	0.00
7) Phenol-d6	6.36	99	1203402	113.76	ng	0.00
23) Nitrobenzene-d5	7.27	82	732675	85.45	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	322853	108.42	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	1371964	90.30	ng	0.00
79) Terphenyl-d14	12.79	244	1332445	82.57	ng	0.00

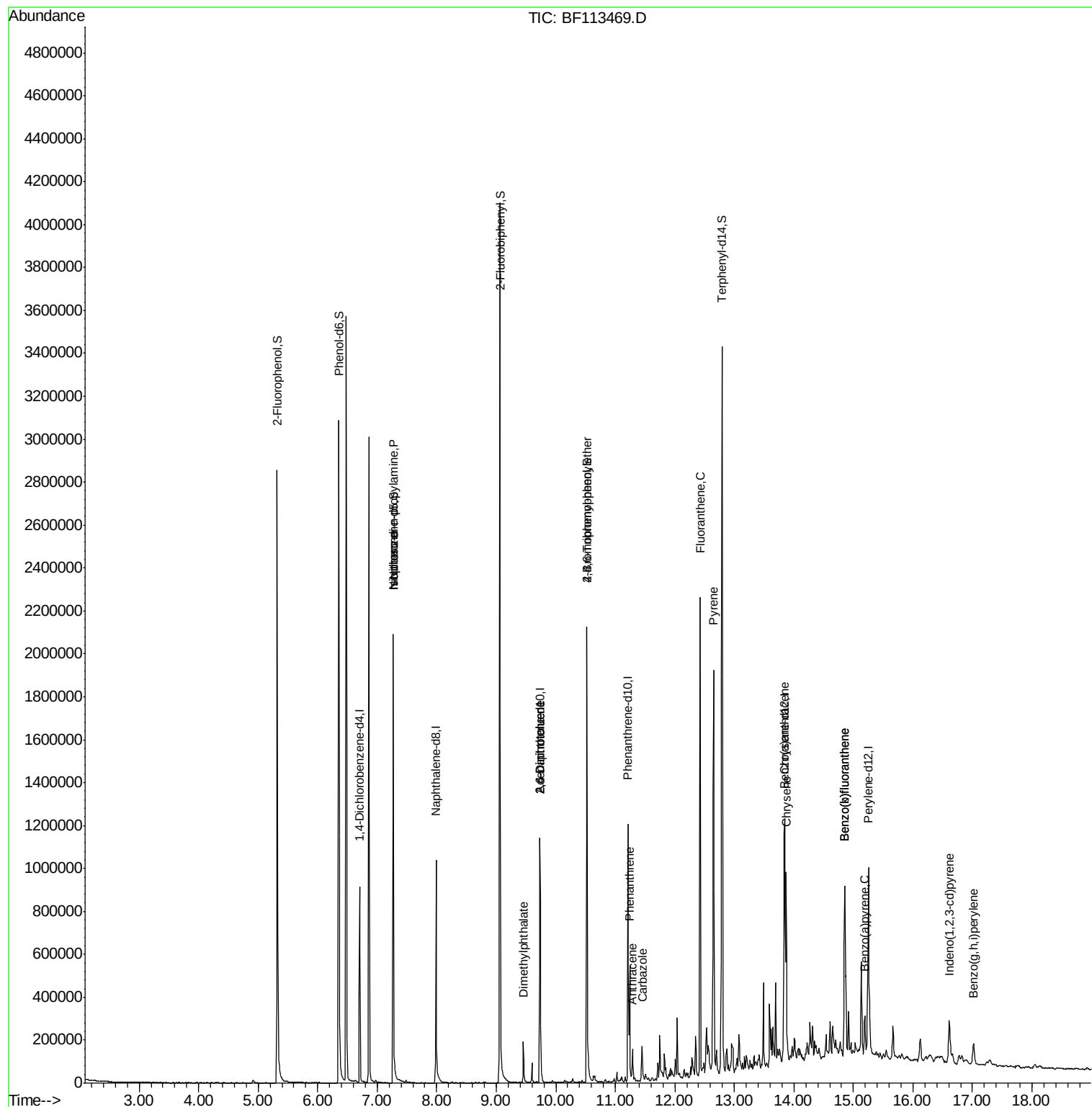
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.27	70	91367	13.750	ng	# 77
25) Isophorone	7.27	82	727675	43.791	ng	# 64
50) Dimethylphthalate	9.46	163	94253	5.276	ng	100
51) 2,6-Dinitrotoluene	9.73	165	30082	7.464	ng	# 26
57) 2,4-Dinitrotoluene	9.73	165	30082	5.869	ng	# 23
67) 4-Bromophenyl-phenylether	10.52	248	18395	3.642	ng	# 1
71) Phenanthrene	11.24	178	207608	9.020	ng	97
72) Anthracene	11.29	178	72282	3.092	ng	98
73) Carbazole	11.45	167	82164	3.683	ng	98
75) Fluoranthene	12.43	202	1022357	39.293	ng	98
78) Pyrene	12.65	202	745554	30.249	ng	99
81) Benzo(a)anthracene	13.83	228	126049	6.191	ng	95
83) Chrysene	13.87	228	385694	18.651	ng	99
86) Indeno(1,2,3-cd)pyrene	16.61	276	104503	5.888	ng	96
88) Benzo(b)fluoranthene	14.85	252	541809	21.340	ng	98
89) Benzo(k)fluoranthene	14.85	252	541809	24.300	ng	# 97
90) Benzo(a)pyrene	15.19	252	81303	3.612	ng	97
92) Benzo(g,h,i)perylene	17.02	276	88482	4.509	ng	96

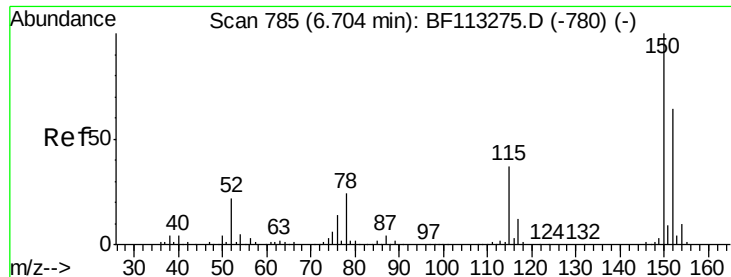
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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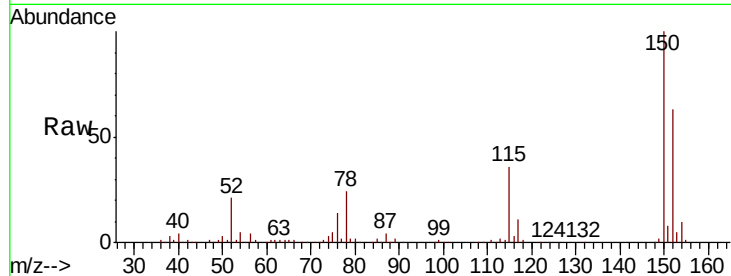


#1

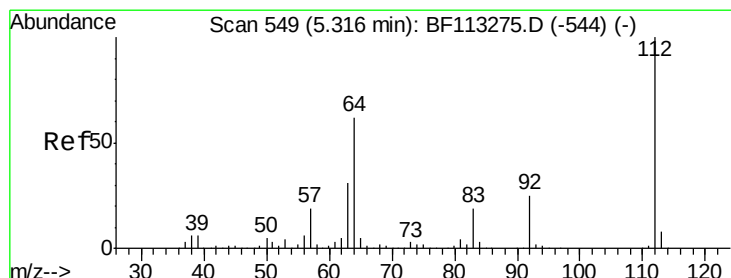
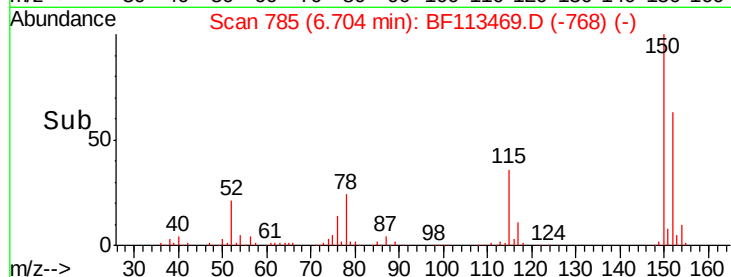
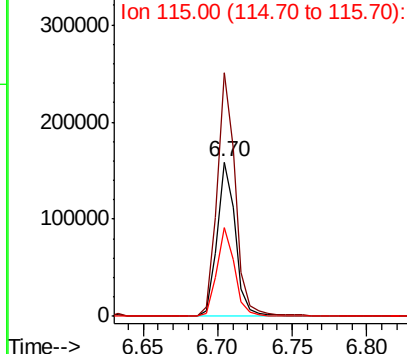
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 785
Delta R.T. 0.00 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Instrument :
BNA_F
ClientSampleId :
CS-10

Tgt Ion:152 Resp: 136729
Ion Ratio Lower Upper
152 100
150 157.8 124.7 187.1
115 57.3 46.0 69.0



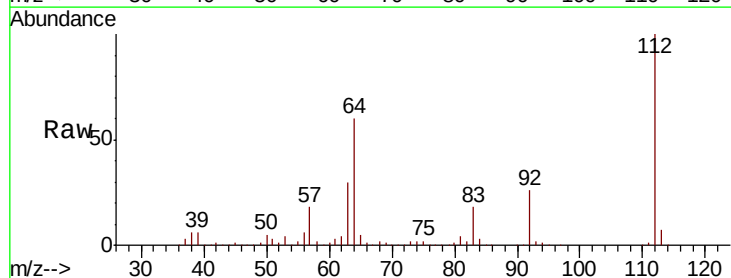
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



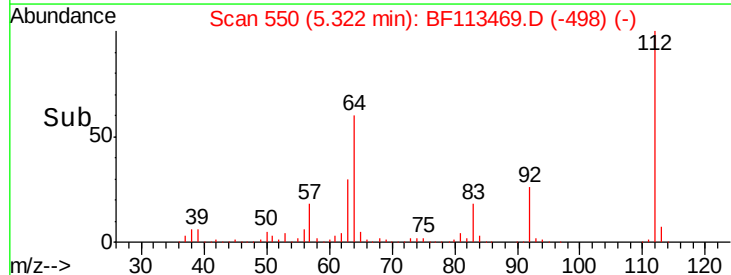
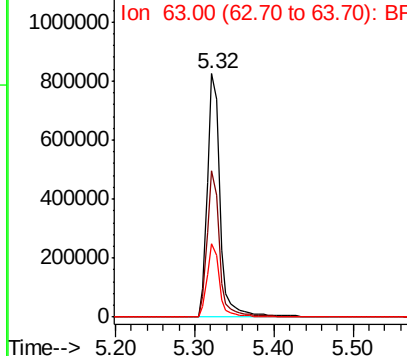
#5

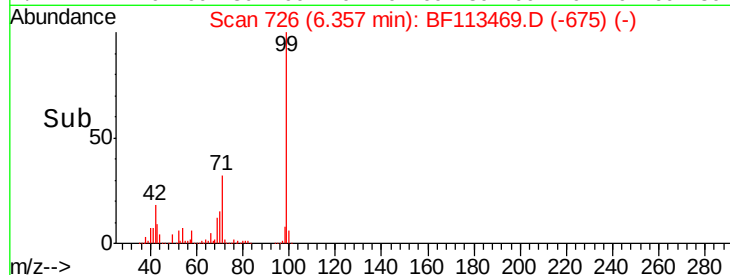
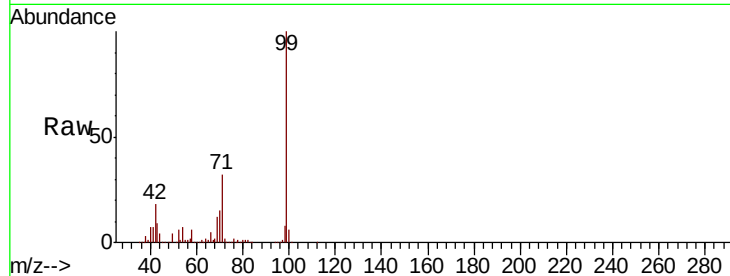
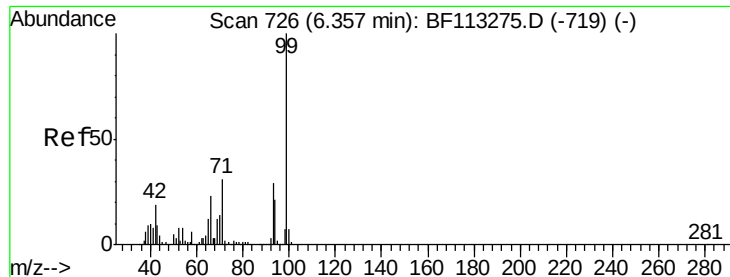
2-Fluorophenol
Concen: 111.843 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.01 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Tgt Ion:112 Resp: 935230
Ion Ratio Lower Upper
112 100
64 60.4 49.2 73.8
63 30.4 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: 113.760 ng

RT: 6.36 min Scan# 726

Delta R.T. 0.00 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampleId :

CS-10

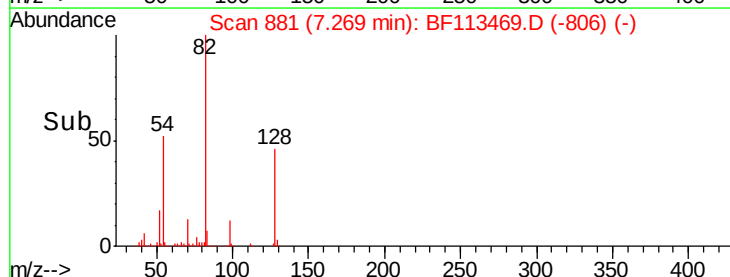
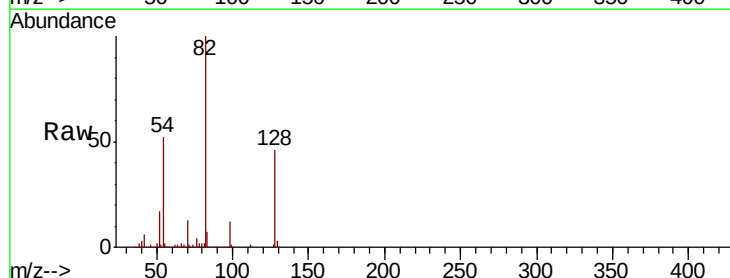
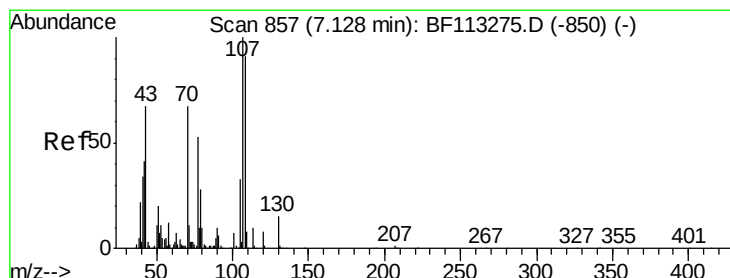
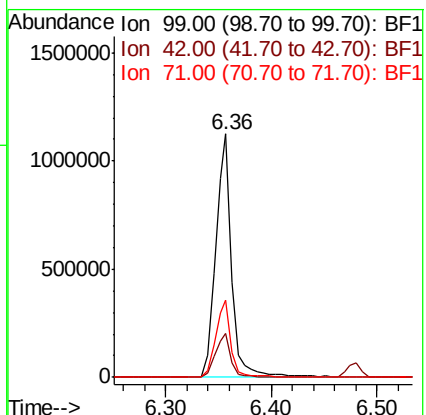
Tgt Ion: 99 Resp: 1203402

Ion Ratio Lower Upper

99 100

42 18.1 14.8 22.2

71 31.5 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 13.750 ng

RT: 7.27 min Scan# 881

Delta R.T. 0.14 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Tgt Ion: 70 Resp: 91367

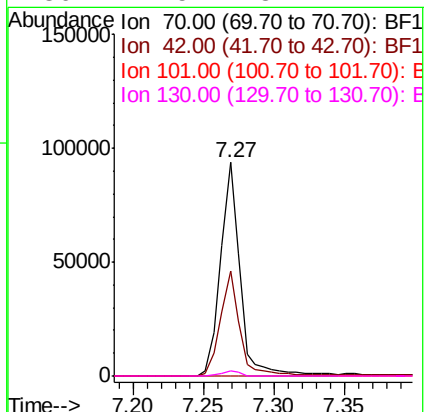
Ion Ratio Lower Upper

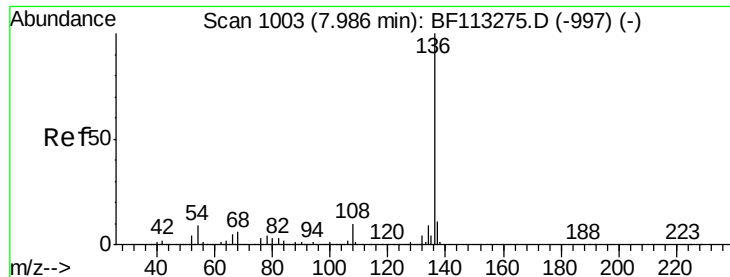
70 100

42 49.3 48.4 72.6

101 0.0 7.8 11.8#

130 2.5 18.2 27.4#

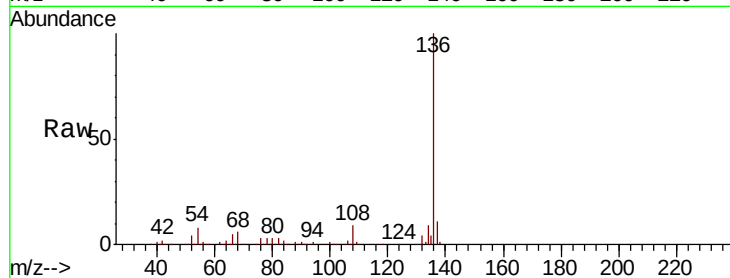




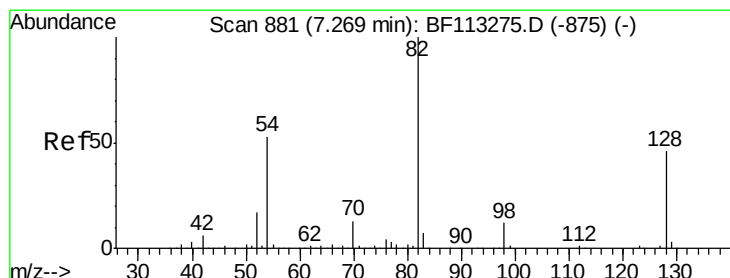
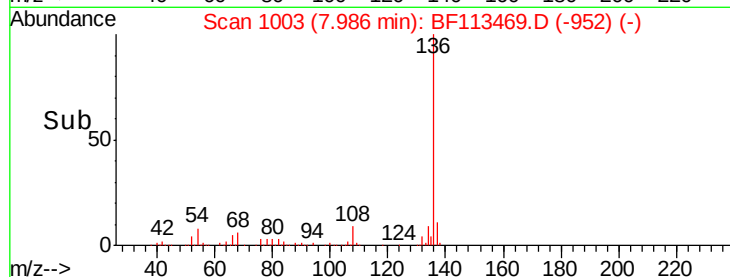
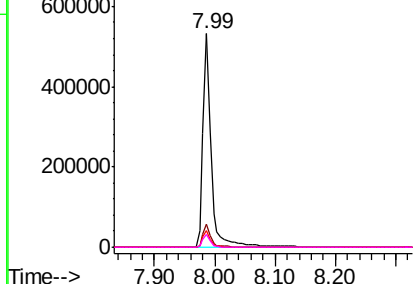
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.99 min Scan# 1003
Delta R.T. -0.00 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Instrument :
BNA_F
ClientSampleId :
CS-10

Tgt Ion:	136	Resp:	508934
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.7	7.0	10.6
68	6.1	4.8	7.2

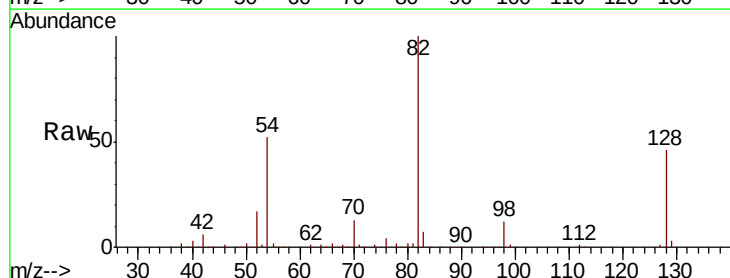


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

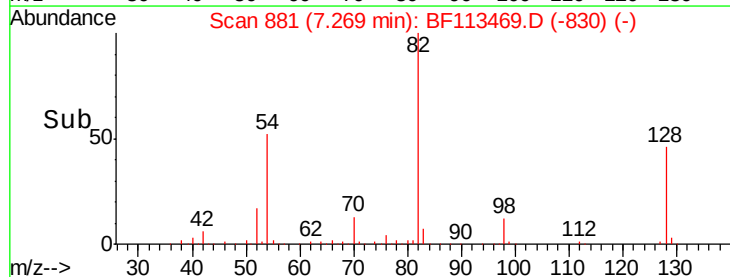
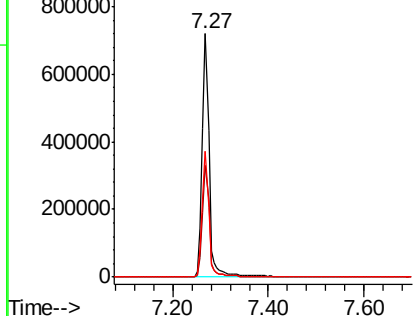


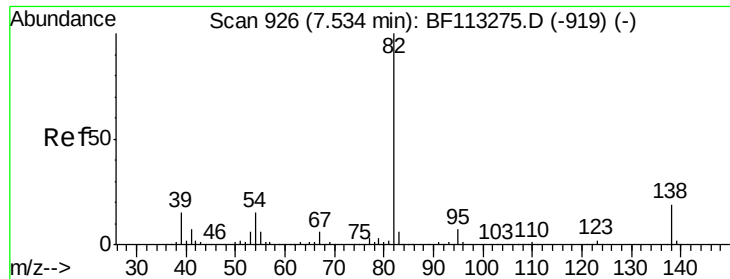
#23
Nitrobenzene-d5
Concen: 85.448 ng
RT: 7.27 min Scan# 881
Delta R.T. 0.00 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Tgt Ion:	82	Resp:	732675
Ion	Ratio	Lower	Upper
82	100		
128	46.1	36.5	54.7
54	51.7	42.2	63.2



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

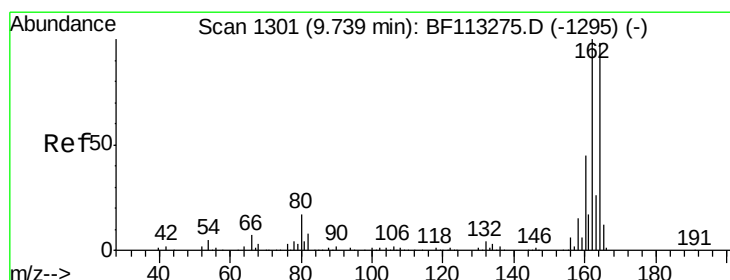
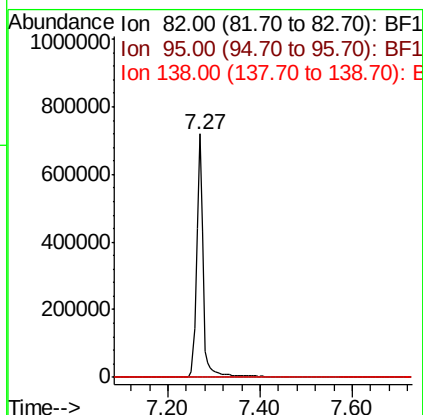
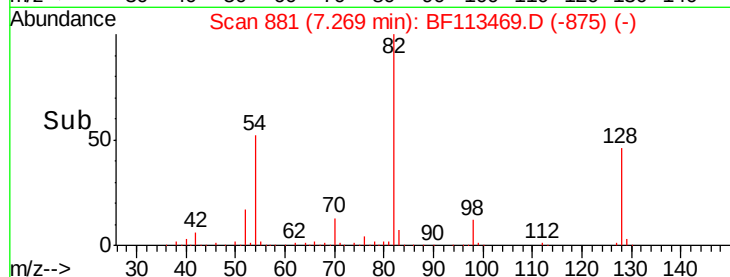
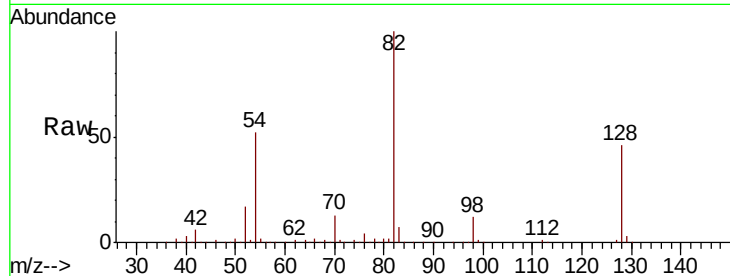




#25
Isophorone
Concen: 43.791 ng
RT: 7.27 min Scan# 881
Delta R.T. -0.26 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

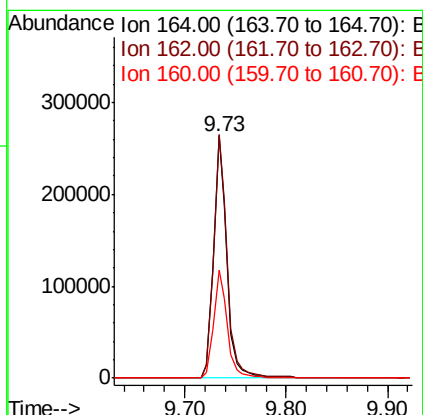
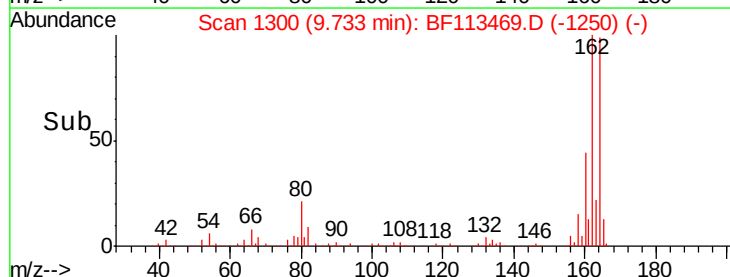
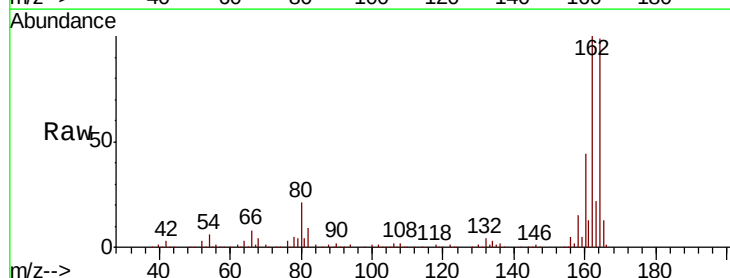
Instrument :
BNA_F
ClientSampled :
CS-10

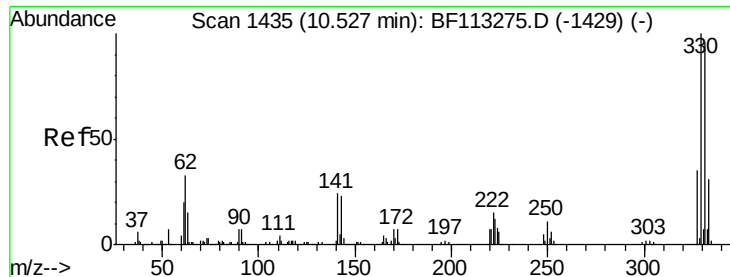
Tgt Ion: 82 Resp: 727675
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 15.2 22.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Tgt Ion: 164 Resp: 241069
Ion Ratio Lower Upper
164 100
162 100.7 81.8 122.6
160 44.6 36.4 54.6

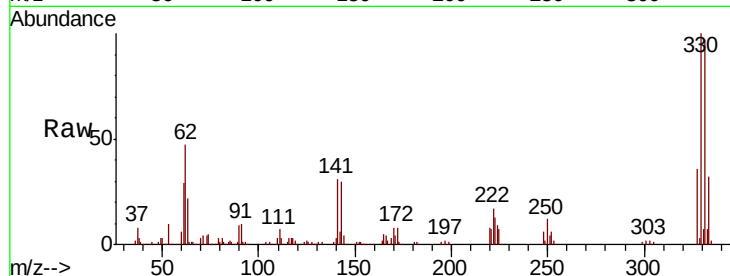




#42
 2,4,6-Tribromophenol
 Concen: 108.422 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113469.D
 Acq: 1 Apr 2019 16:28

Instrument :
 BNA_F
 ClientSampleId :
 CS-10

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.8	116.6
141	27.5	22.7	34.1

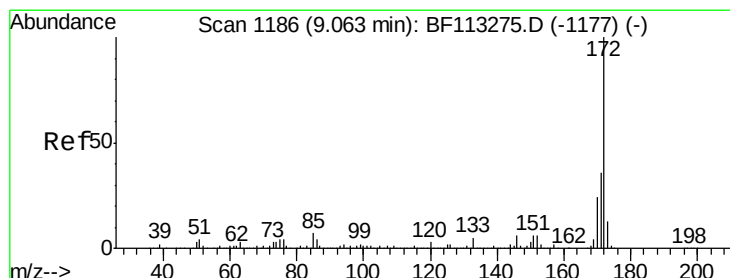
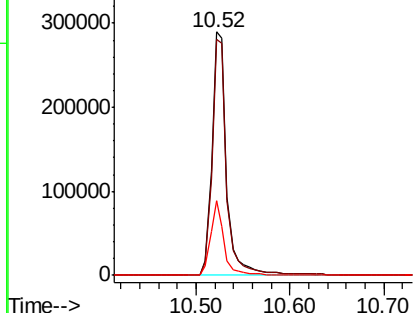
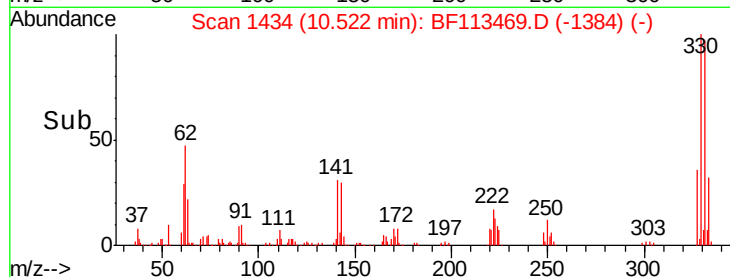


Abundance

Ion 329.80 (329.50 to 330.50): E

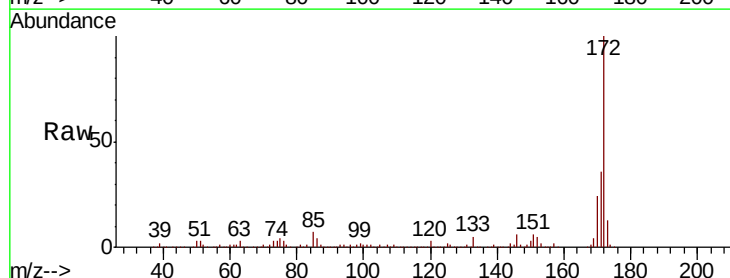
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 90.301 ng
 RT: 9.06 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: BF113469.D
 Acq: 1 Apr 2019 16:28

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.6
170	24.3	19.5	29.3

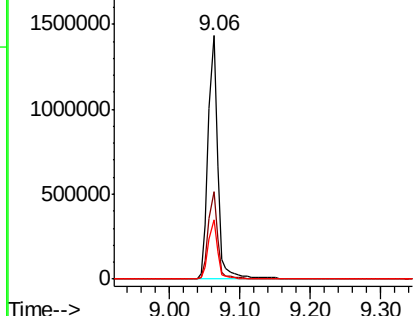
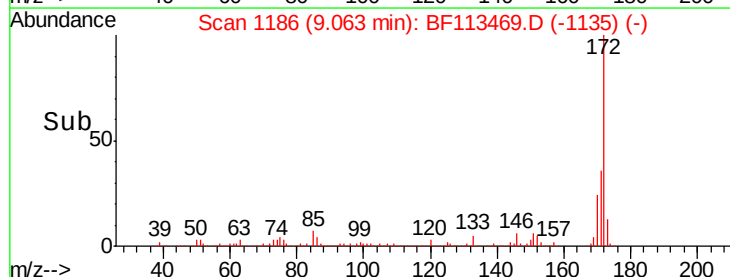


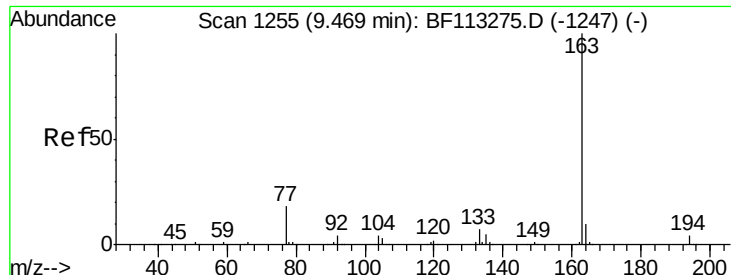
Abundance

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

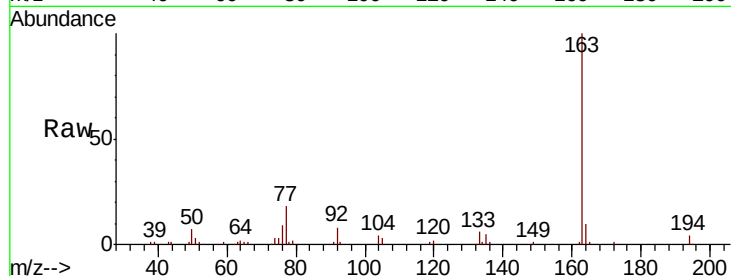




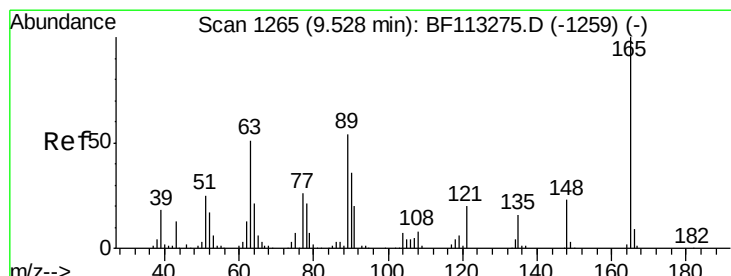
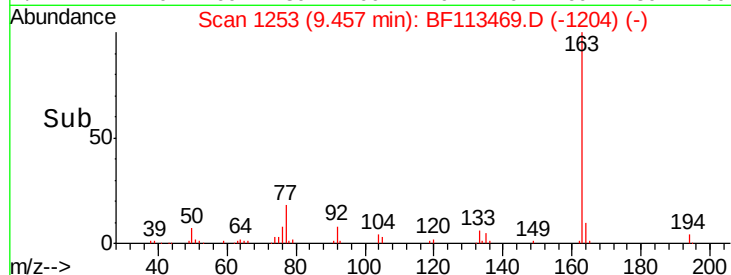
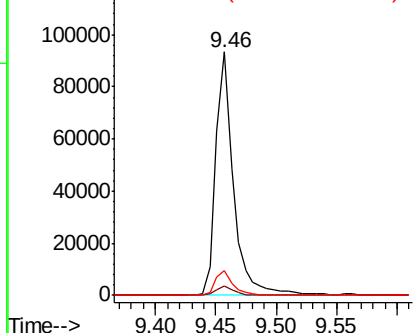
#50
Dimethylphthalate
Concen: 5.276 ng
RT: 9.46 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Instrument :
BNA_F
ClientSampleId :
CS-10

Tgt Ion:163 Resp: 94253
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.6
164 10.1 8.1 12.1

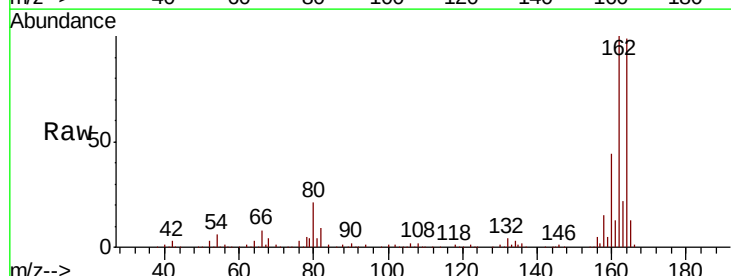


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

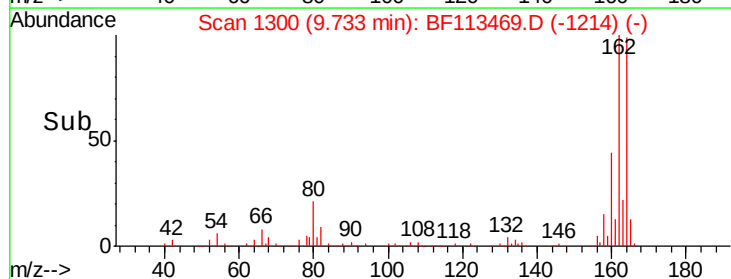
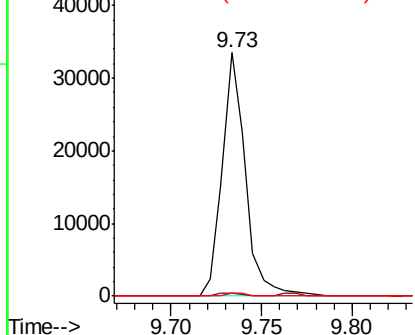


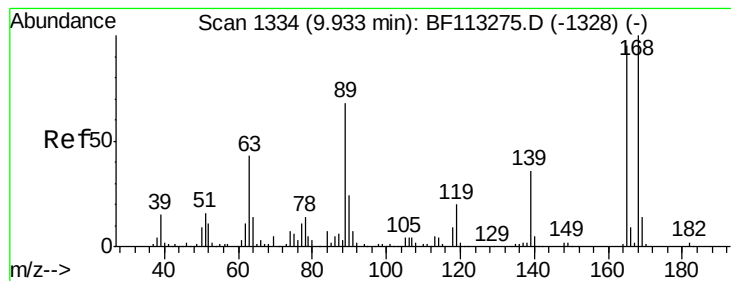
#51
2,6-Dinitrotoluene
Concen: 7.464 ng
RT: 9.73 min Scan# 1300
Delta R.T. 0.21 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Tgt Ion:165 Resp: 30082
Ion Ratio Lower Upper
165 100
63 1.2 43.4 65.0#
89 1.3 43.1 64.7#



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: 5.869 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.20 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampled :

CS-10

Tgt Ion:165 Resp: 30082

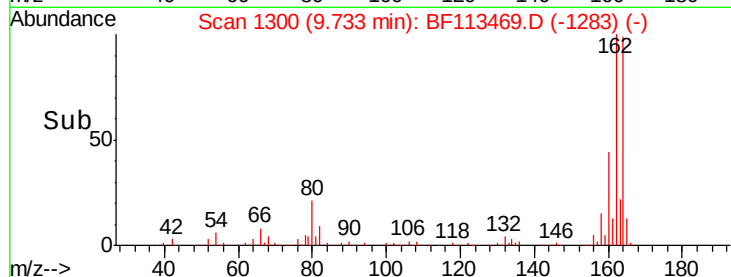
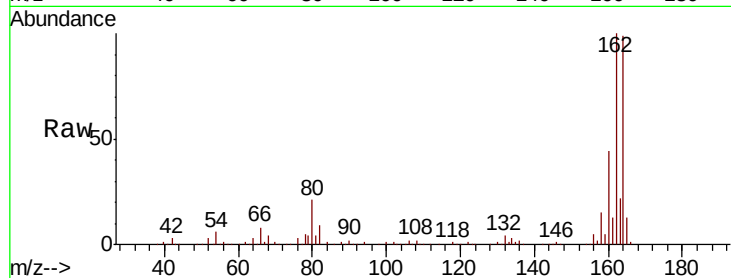
Ion Ratio Lower Upper

165 100

63 1.2 37.5 56.3#

89 1.3 57.4 86.2#

182 0.0 2.0 3.0#

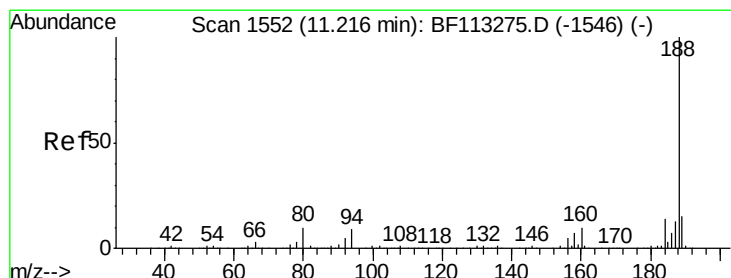
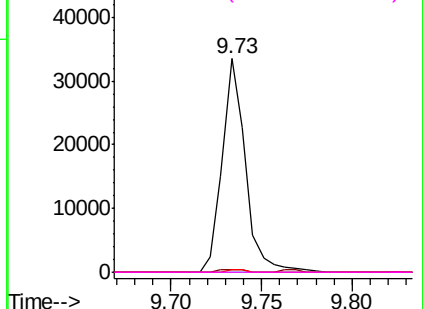


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.22 min Scan# 1552

Delta R.T. -0.00 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

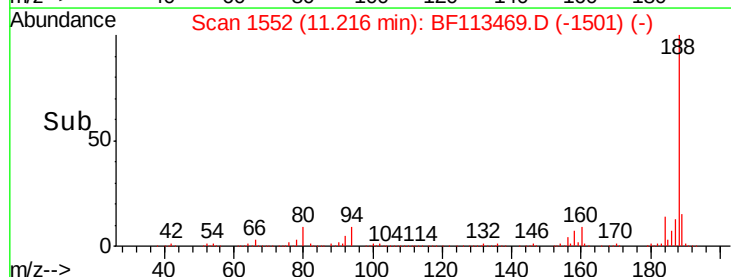
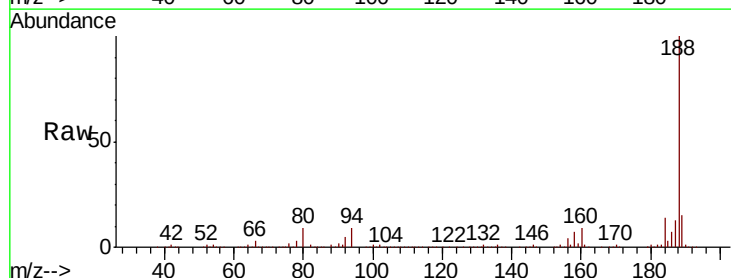
Tgt Ion:188 Resp: 463467

Ion Ratio Lower Upper

188 100

94 8.9 7.0 10.6

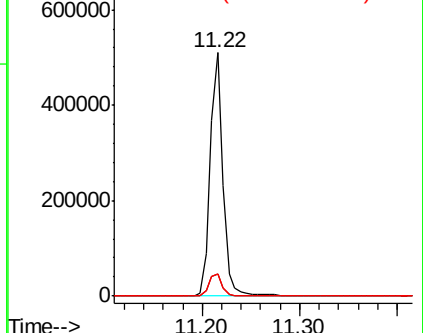
80 9.0 7.7 11.5

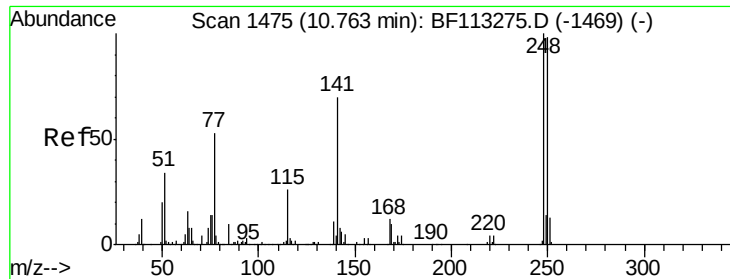


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

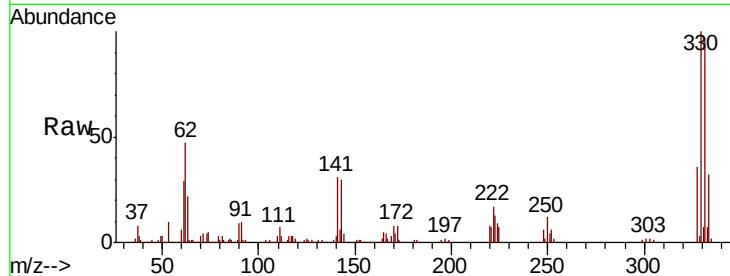




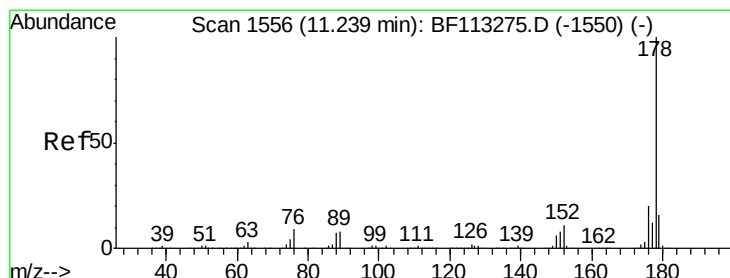
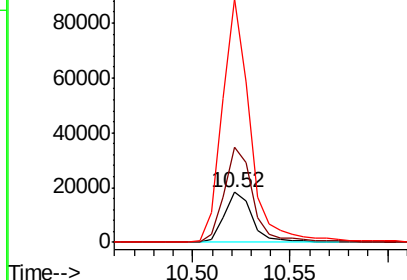
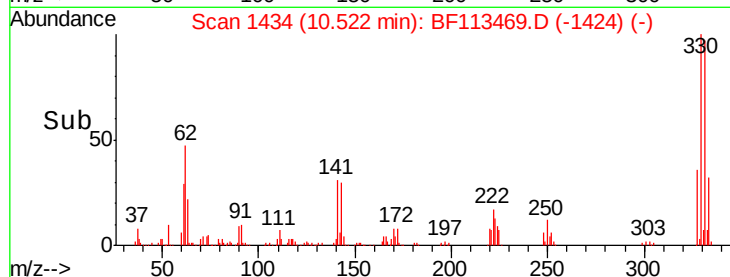
#67
 4-Bromophenyl-phenylether
 Concen: 3.642 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.24 min
 Lab File: BF113469.D
 Acq: 1 Apr 2019 16:28

Instrument :
 BNA_F
 ClientSampleId :
 CS-10

Tgt Ion:248 Resp: 18395
 Ion Ratio Lower Upper
 248 100
 250 191.5 78.3 117.5#
 141 488.1 56.2 84.4#

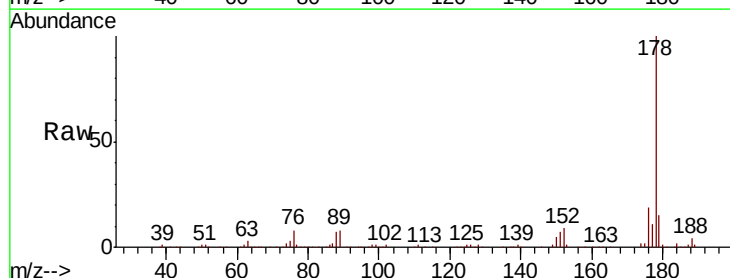


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

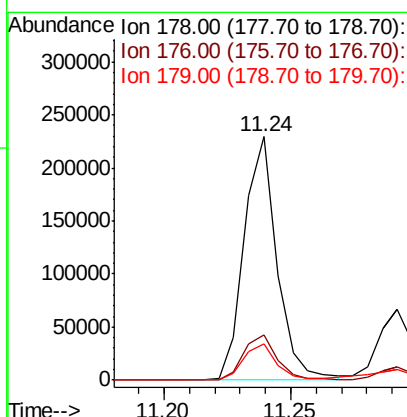
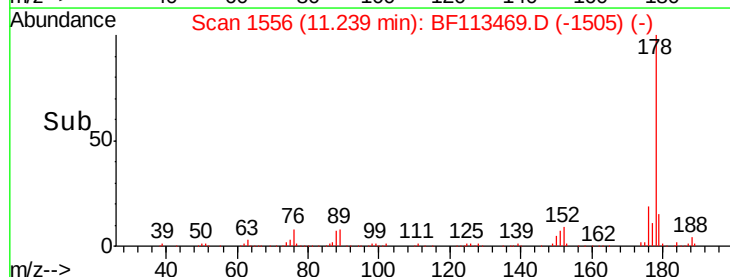


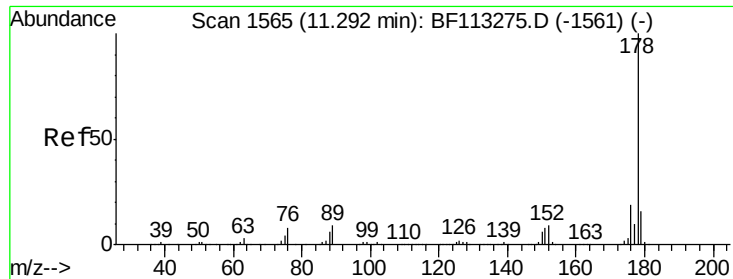
#71
 Phenanthrene
 Concen: 9.020 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: BF113469.D
 Acq: 1 Apr 2019 16:28

Tgt Ion:178 Resp: 207608
 Ion Ratio Lower Upper
 178 100
 176 18.8 16.2 24.2
 179 14.7 12.7 19.1



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: 3.092 ng

RT: 11.29 min Scan# 1565

Delta R.T. -0.00 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampleId :

CS-10

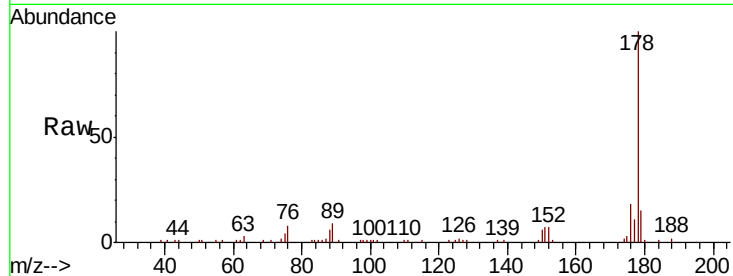
Tgt Ion:178 Resp: 72282

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

179 15.4 12.8 19.2

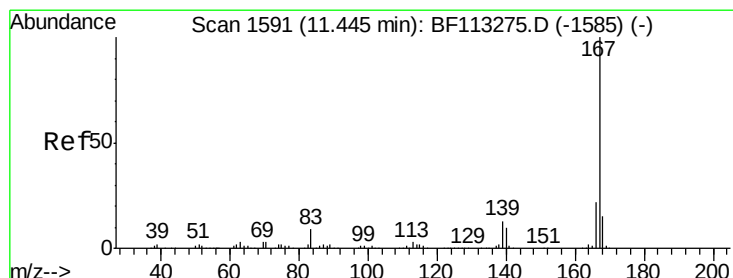
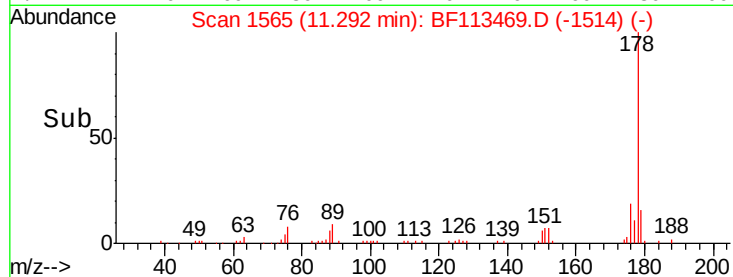
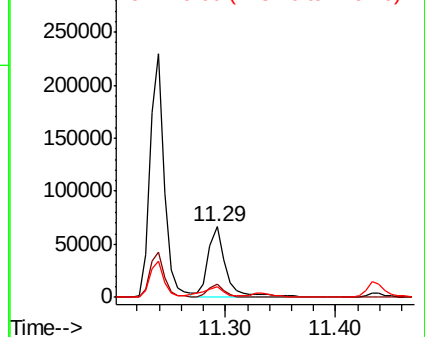


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.683 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.01 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

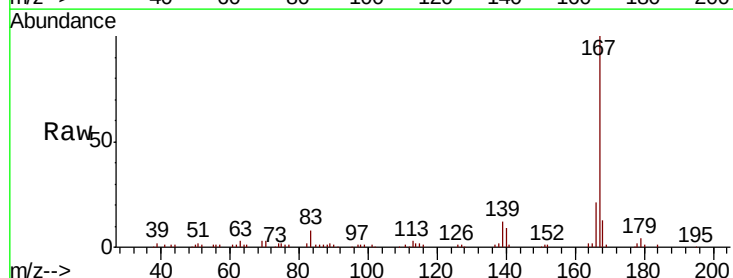
Tgt Ion:167 Resp: 82164

Ion Ratio Lower Upper

167 100

166 20.7 17.4 26.0

139 12.0 10.4 15.6

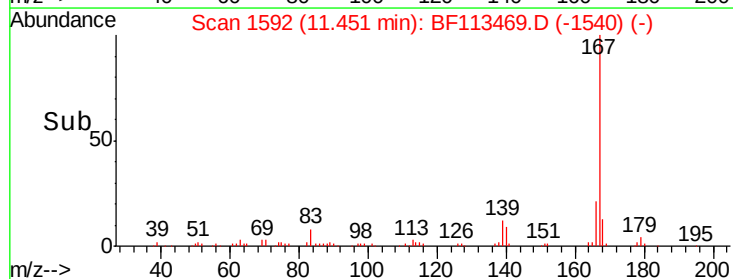
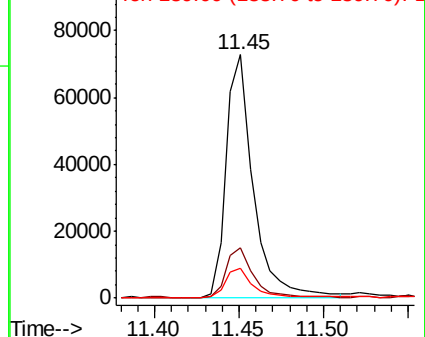


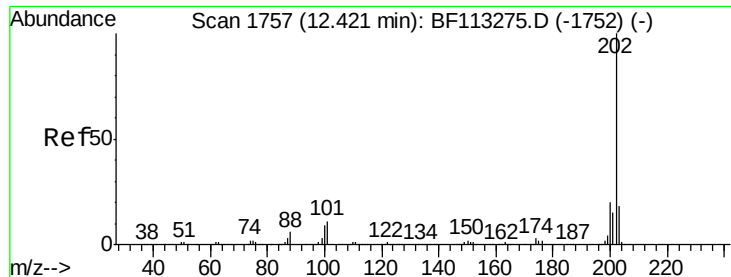
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 39.293 ng

RT: 12.43 min Scan# 1758

Delta R.T. 0.01 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampled :

CS-10

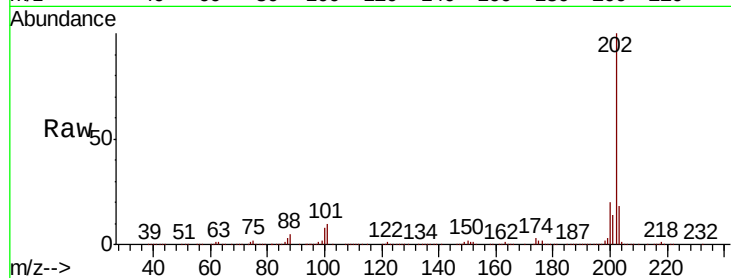
Tgt Ion:202 Resp: 1022357

Ion Ratio Lower Upper

202 100

101 10.1 0.0 31.4

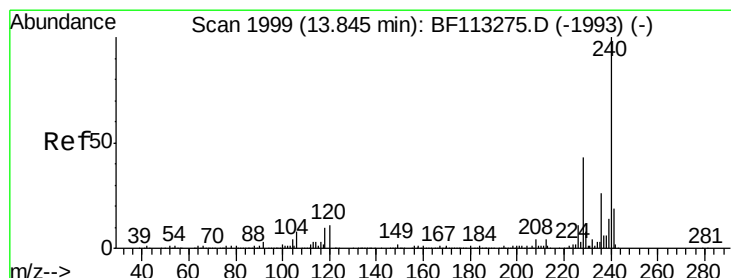
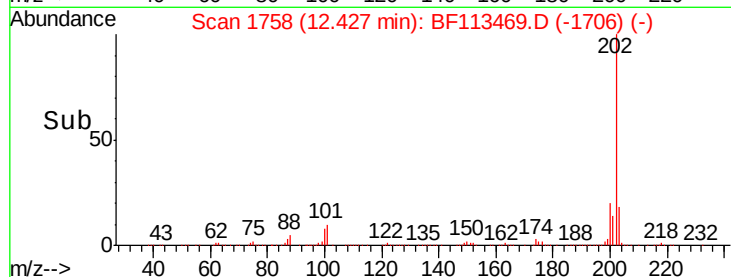
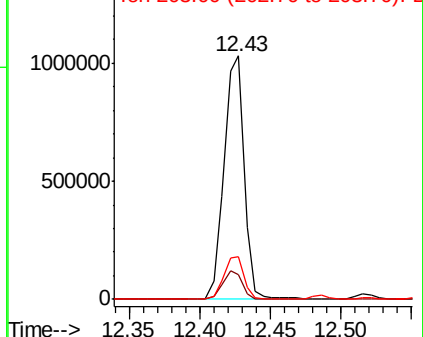
203 17.7 0.0 38.0



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: 13.84 min Scan# 1999

Delta R.T. 0.00 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

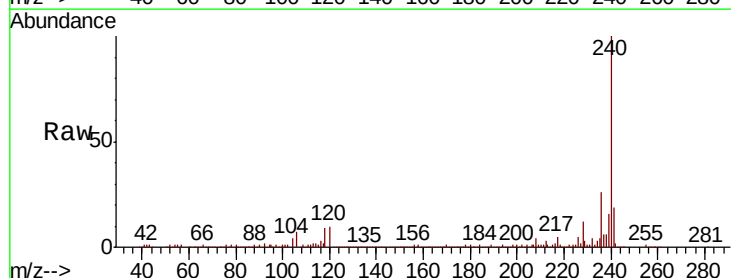
Tgt Ion:240 Resp: 355680

Ion Ratio Lower Upper

240 100

120 10.0 8.8 13.2

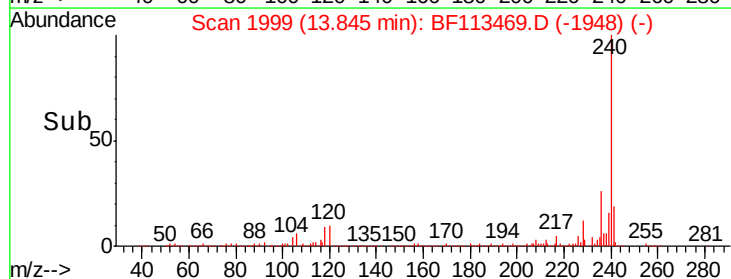
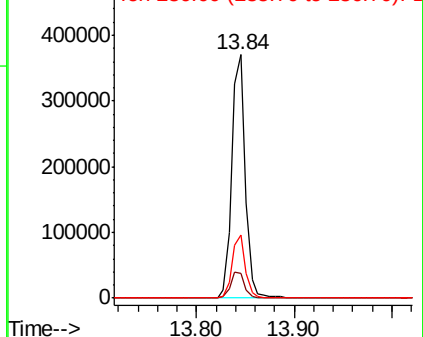
236 26.1 20.9 31.3

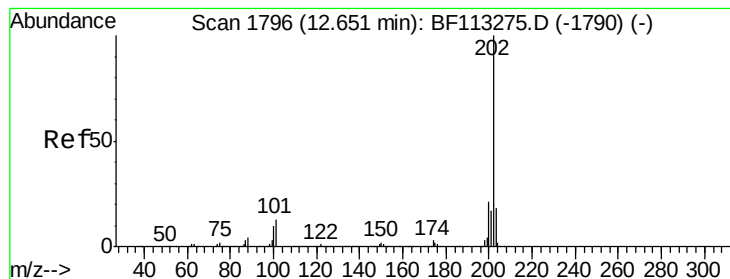


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 30.249 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.00 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampleId :

CS-10

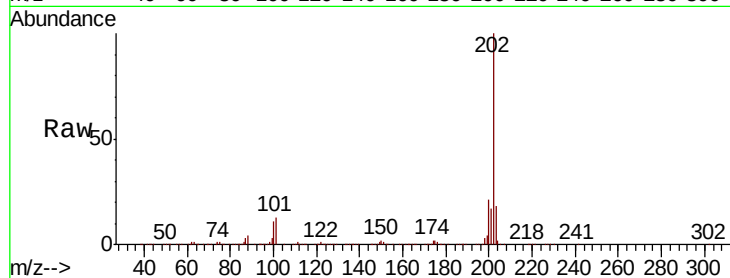
Tgt Ion:202 Resp: 745554

Ion Ratio Lower Upper

202 100

200 20.5 16.8 25.2

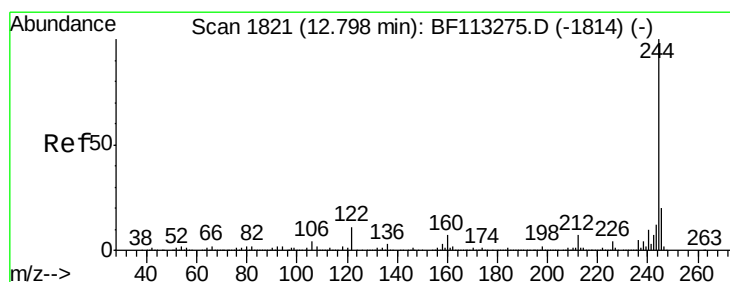
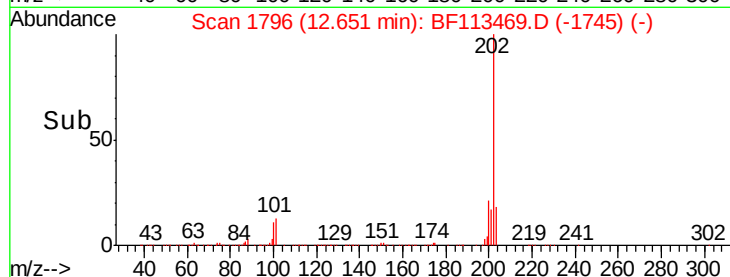
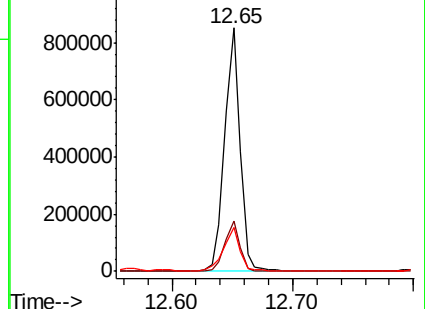
203 17.9 14.4 21.6



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: 82.572 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

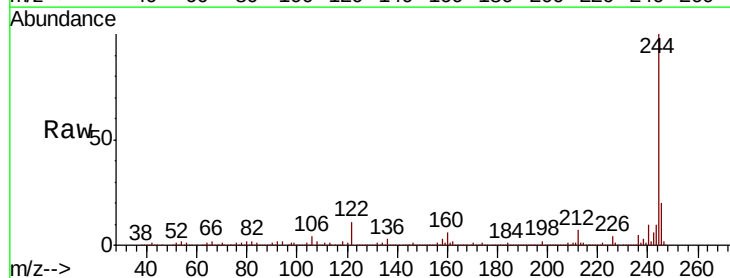
Tgt Ion:244 Resp: 1332445

Ion Ratio Lower Upper

244 100

212 6.6 5.5 8.3

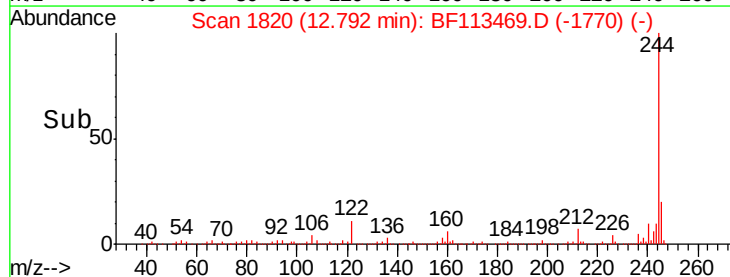
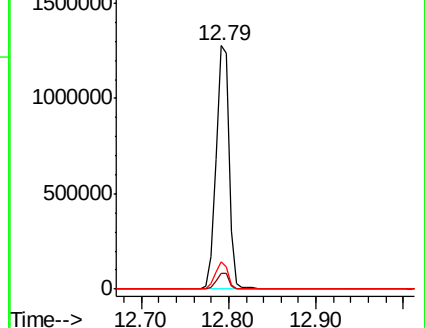
122 11.4 8.6 13.0

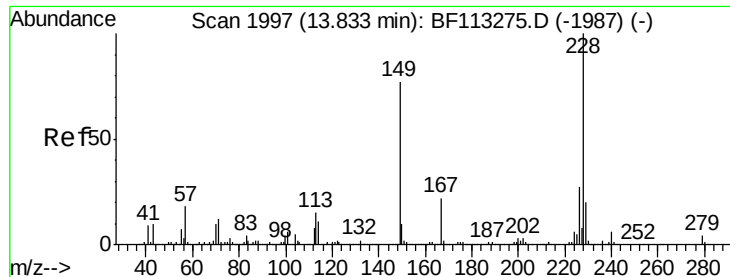


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 6.191 ng

RT: 13.83 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampleId :

CS-10

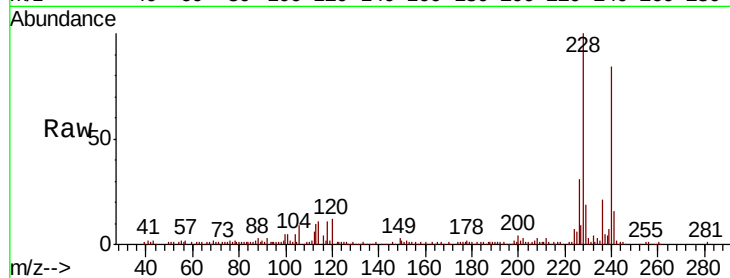
Tgt Ion:228 Resp: 126049

Ion Ratio Lower Upper

228 100

226 30.7 21.8 32.8

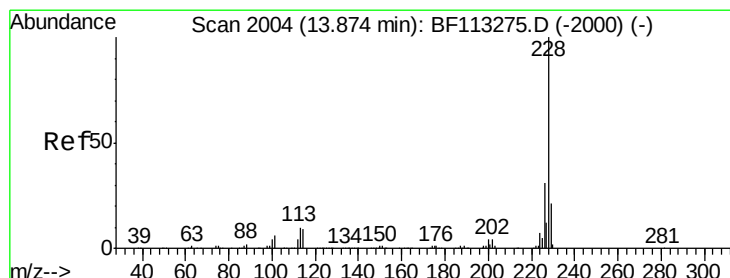
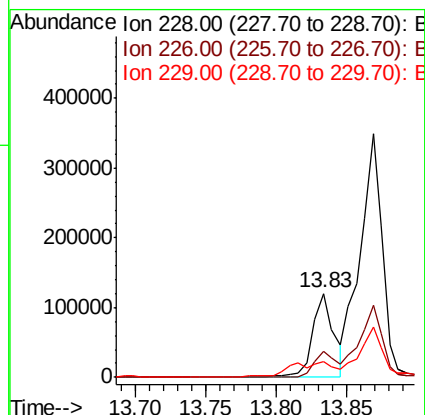
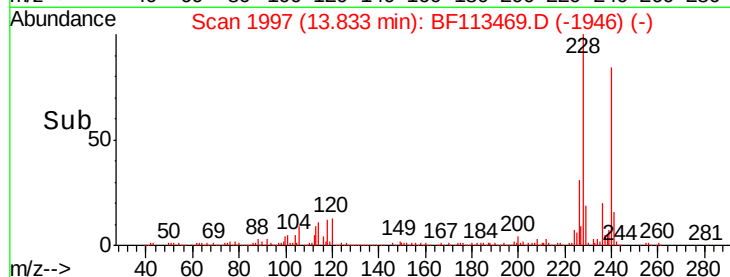
229 19.5 16.2 24.4



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: 18.651 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

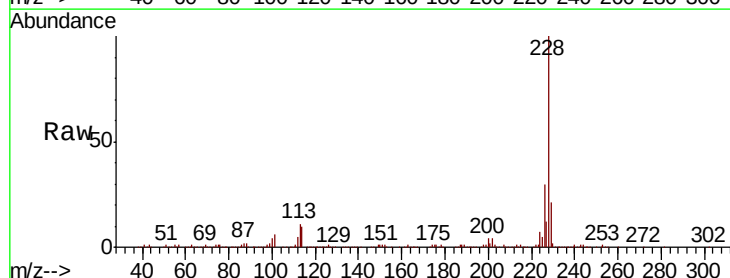
Tgt Ion:228 Resp: 385694

Ion Ratio Lower Upper

228 100

226 29.7 24.3 36.5

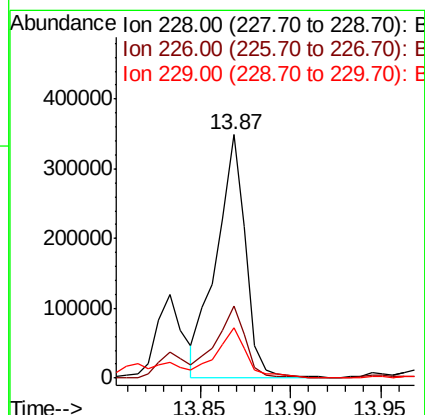
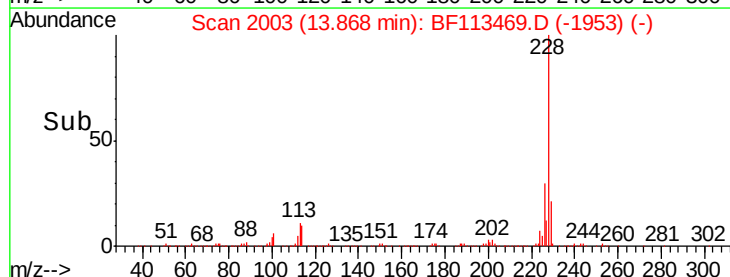
229 20.9 16.3 24.5

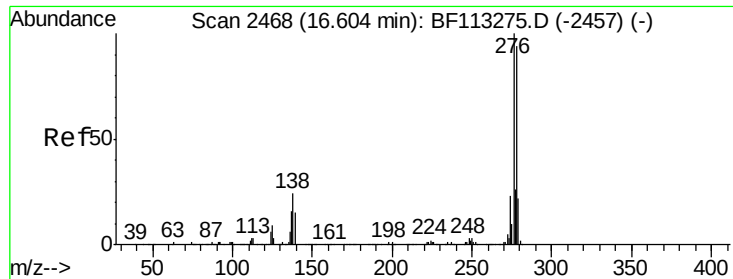


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

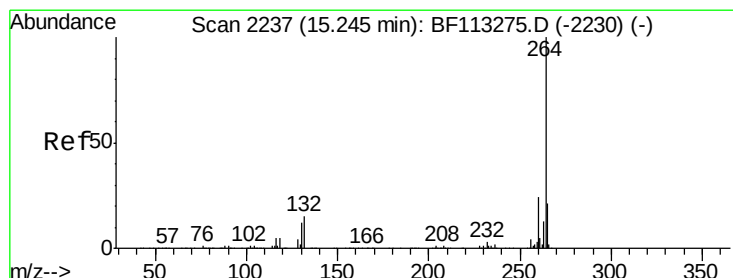
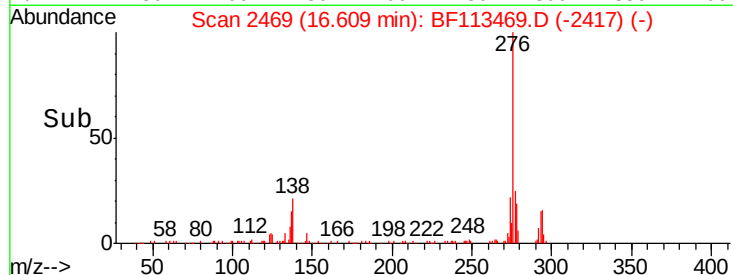
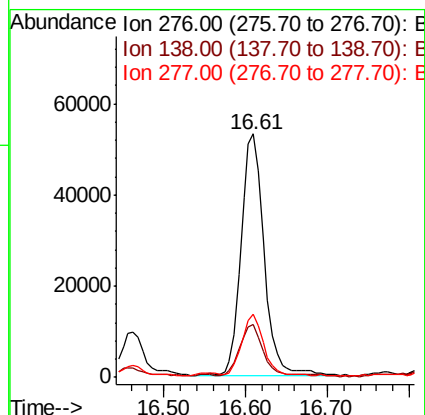
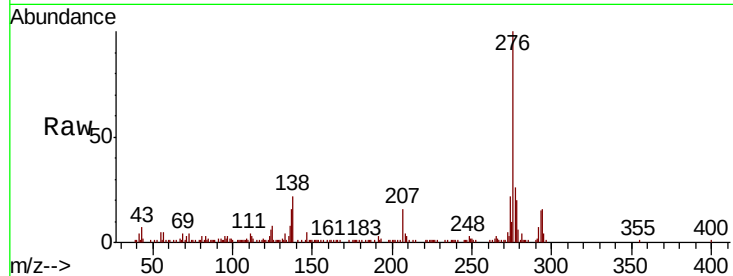




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.888 ng
 RT: 16.61 min Scan# 2469
 Delta R.T. 0.01 min
 Lab File: BF113469.D
 Acq: 1 Apr 2019 16:28

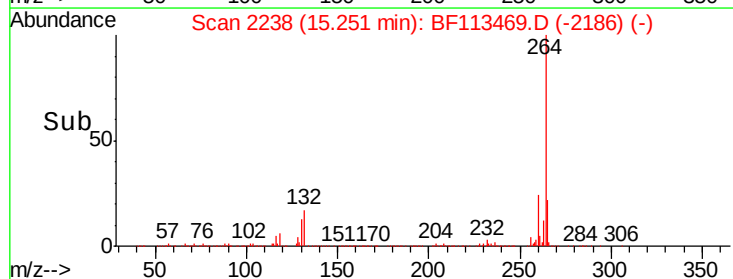
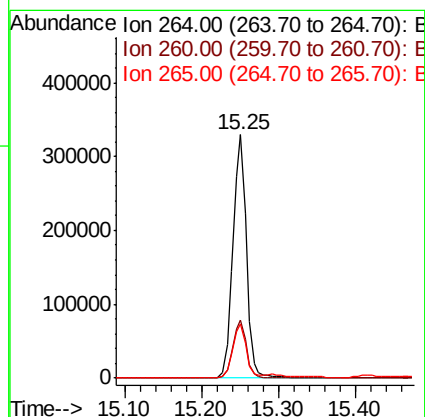
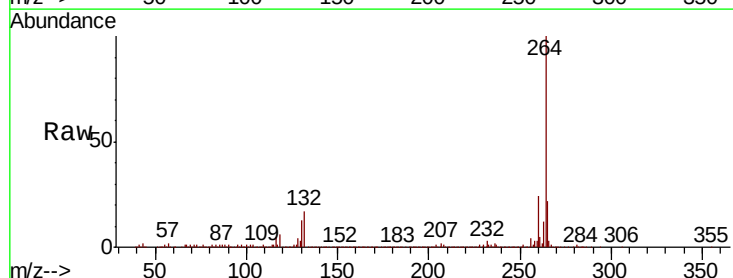
Instrument :
 BNA_F
 ClientSampleId :
 CS-10

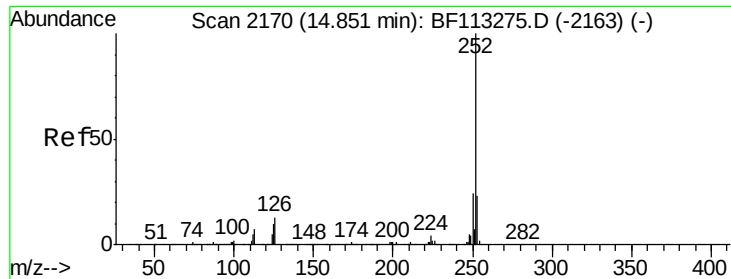
Tgt Ion:276 Resp: 104503
 Ion Ratio Lower Upper
 276 100
 138 20.3 18.1 27.1
 277 23.8 20.2 30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.25 min Scan# 2238
 Delta R.T. 0.01 min
 Lab File: BF113469.D
 Acq: 1 Apr 2019 16:28

Tgt Ion:264 Resp: 408716
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.1 28.7
 265 22.1 17.1 25.7

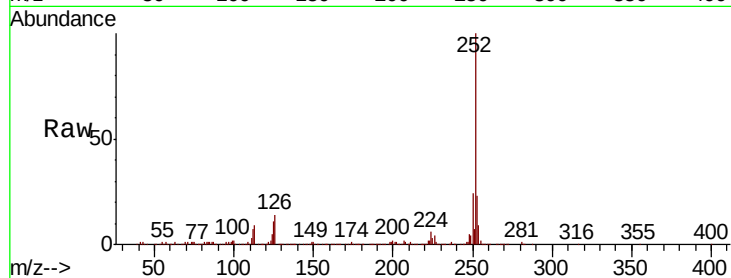




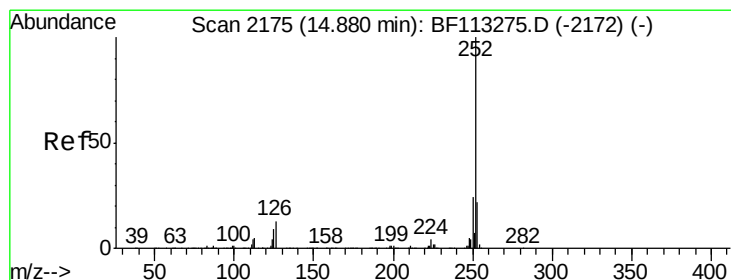
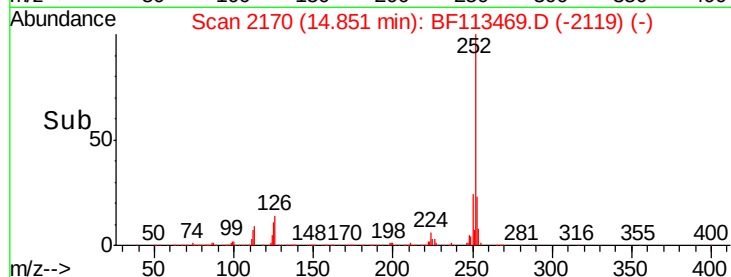
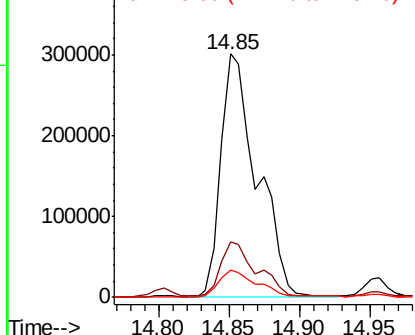
#88
Benzo(b)fluoranthene
Concen: 21.340 ng
RT: 14.85 min Scan# 2170
Delta R.T. 0.00 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Instrument :
BNA_F
ClientSampleId :
CS-10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	11.1	7.6	11.4

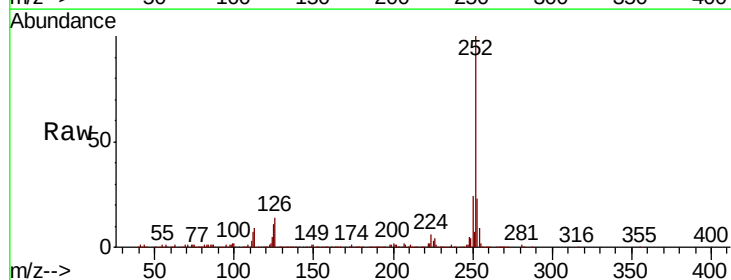


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

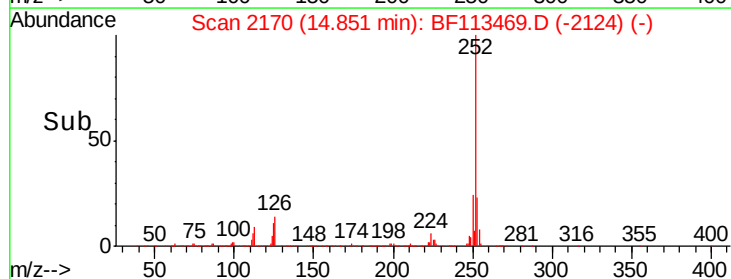
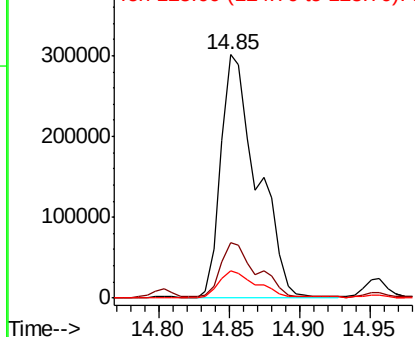


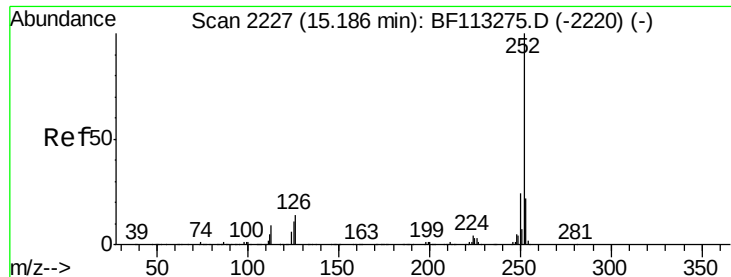
#89
Benzo(k)fluoranthene
Concen: 24.300 ng
RT: 14.85 min Scan# 2170
Delta R.T. -0.03 min
Lab File: BF113469.D
Acq: 1 Apr 2019 16:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	11.1	7.3	10.9#



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: 3.612 ng

RT: 15.19 min Scan# 2228

Delta R.T. 0.01 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

Instrument :

BNA_F

ClientSampleId :

CS-10

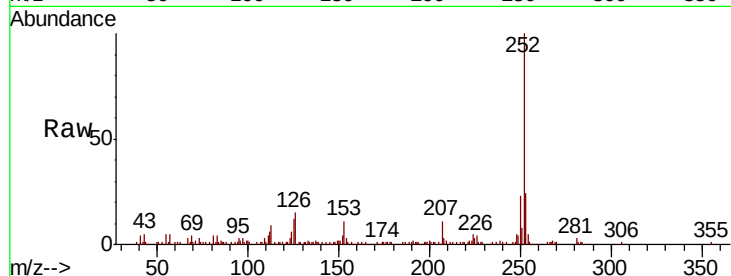
Tgt Ion:252 Resp: 81303

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

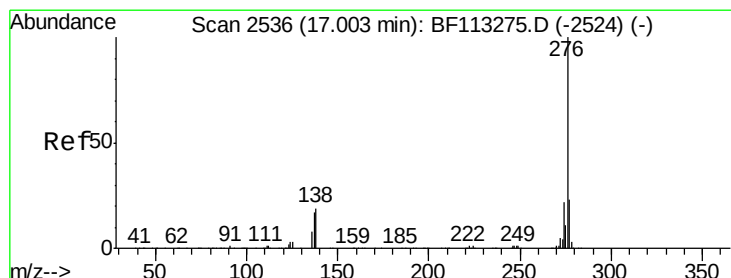
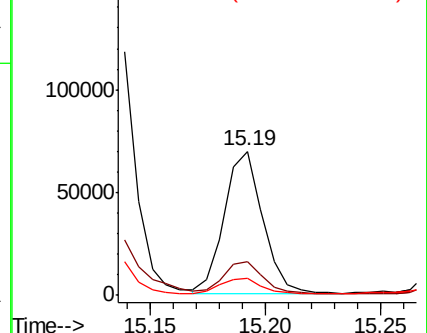
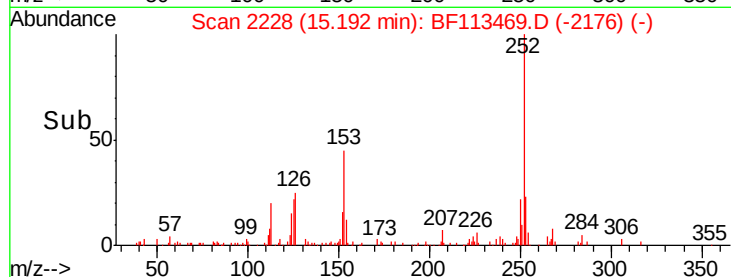
125 12.2 8.8 13.2



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



#92

Benzo(g,h,i)perylene

Concen: 4.509 ng

RT: 17.02 min Scan# 2538

Delta R.T. 0.01 min

Lab File: BF113469.D

Acq: 1 Apr 2019 16:28

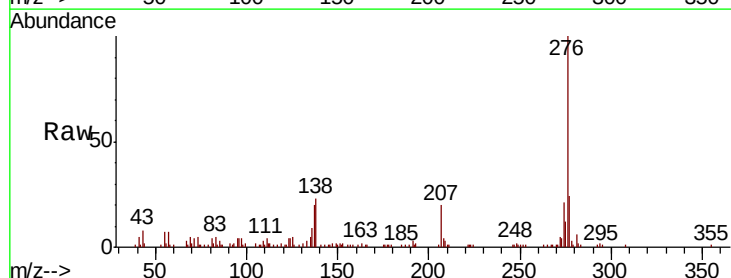
Tgt Ion:276 Resp: 88482

Ion Ratio Lower Upper

276 100

277 24.5 18.8 28.2

138 22.5 15.6 23.4



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

