

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032719\
 Data File : BF113332.D
 Acq On : 27 Mar 2019 15:50
 Operator : JU/SJ
 Sample : K2086-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-12

Quant Time: Mar 28 01:07:33 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	186422	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	703113	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	338133	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	633457	20.00	ng	0.00
76) Chrysene-d12	13.84	240	411961	20.00	ng	0.00
87) Perylene-d12	15.24	264	472113	20.00	ng	0.00

System Monitoring Compounds

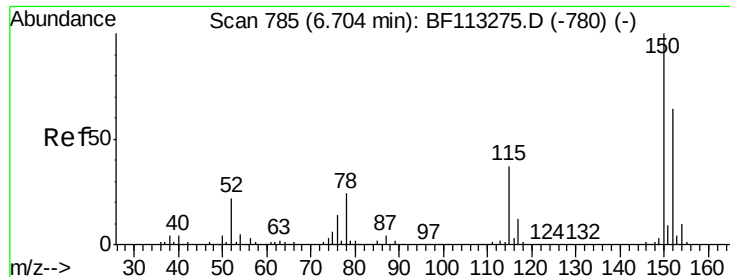
5) 2-Fluorophenol	5.32	112	1084871	95.15	ng	0.00
7) Phenol-d6	6.35	99	1418383	98.34	ng	0.00
23) Nitrobenzene-d5	7.26	82	870653	73.50	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	352795	84.47	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	1607028	71.74	ng	0.00
79) Terphenyl-d14	12.79	244	1422786	76.13	ng	0.00

Target Compounds

						Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	111796	12.340	ng	# 77
25) Isophorone	7.26	82	854398	37.217	ng	# 64
50) Dimethylphthalate	9.45	163	135695	5.415	ng	99
57) 2,4-Dinitrotoluene	9.73	165	43054	5.989	ng	# 23
67) 4-Bromophenyl-phenylether	10.52	248	19882	2.880	ng	# 1
71) Phenanthrene	11.23	178	231329	7.354	ng	98
72) Anthracene	11.29	178	108888	3.408	ng	98
73) Carbazole	11.44	167	96915	3.179	ng	97
75) Fluoranthene	12.42	202	1824954	51.317	ng	98
78) Pyrene	12.65	202	1487239	52.097	ng	99
81) Benzo(a)anthracene	13.83	228	224781	9.532	ng	94
83) Chrysene	13.86	228	735246	30.696	ng	99
86) Indeno(1,2,3-cd)pyrene	16.59	276	199861	9.723	ng	96
88) Benzo(b)fluoranthene	14.84	252	1016396	34.657	ng	98
89) Benzo(k)fluoranthene	14.84	252	1016396	39.464	ng	97
90) Benzo(a)pyrene	15.18	252	171561	6.599	ng	100
91) Dibenzo(a,h)anthracene	16.59	278	46083	2.050	ng	# 86
92) Benzo(g,h,i)perylene	16.99	276	170658	7.529	ng	96

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

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Operator  : JU/SJ  
Sample    : K2086-02  
Misc      :  
ALS Vial  : 11      Sample Multiplier: 1
```

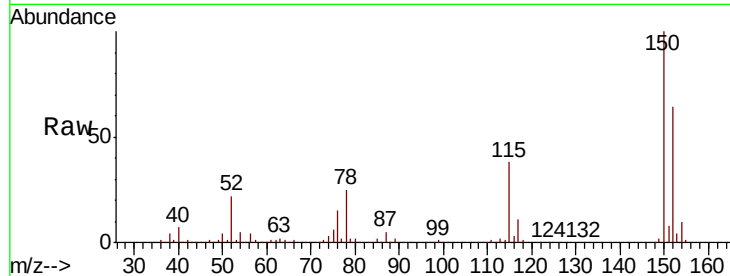


#1

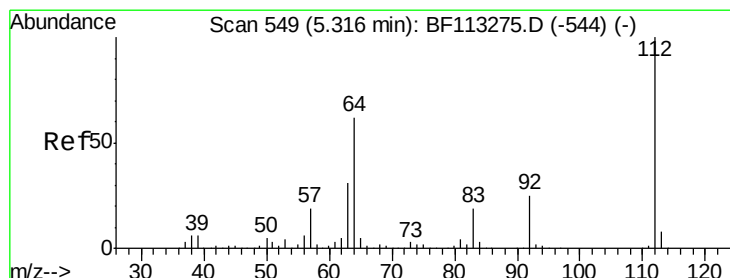
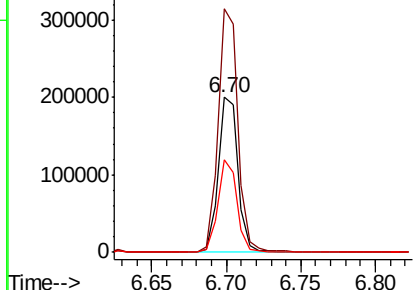
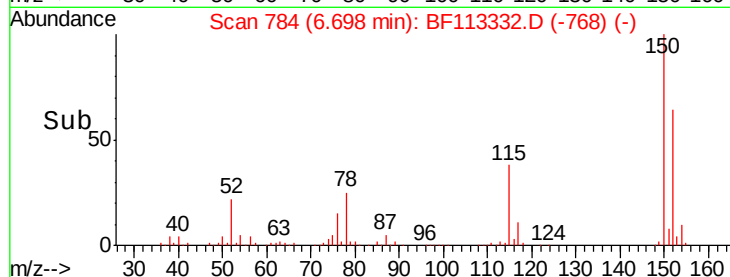
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Instrument :
BNA_F
ClientSampleId :
CS-12

Tgt Ion:152 Resp: 186422
Ion Ratio Lower Upper
152 100
150 157.4 124.7 187.1
115 60.0 46.0 69.0



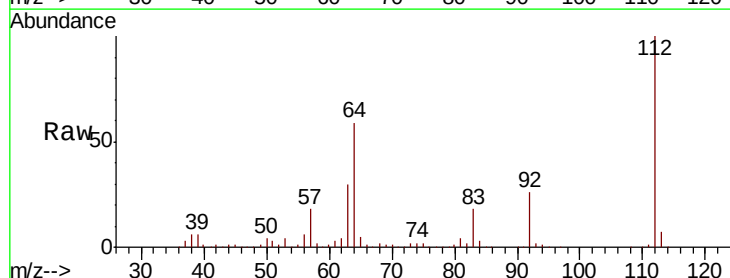
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



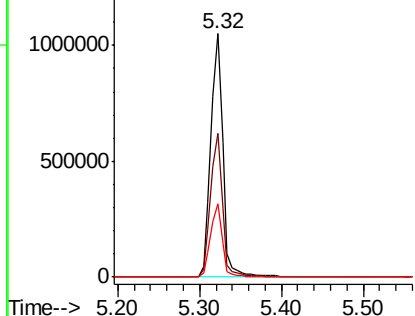
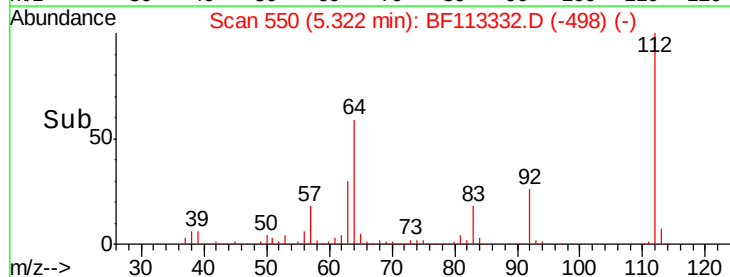
#5

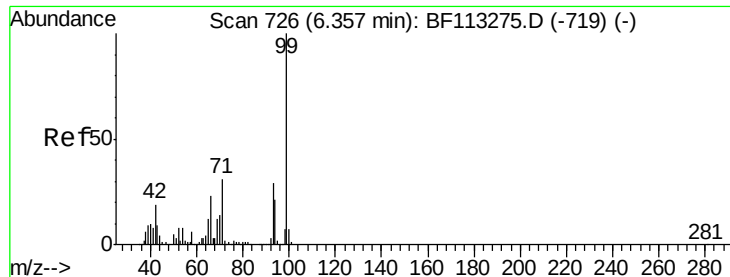
2-Fluorophenol
Concen: 95.155 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion:112 Resp: 1084871
Ion Ratio Lower Upper
112 100
64 59.2 49.2 73.8
63 30.1 24.9 37.3



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 98.342 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

Instrument :

BNA_F

ClientSampleId :

CS-12

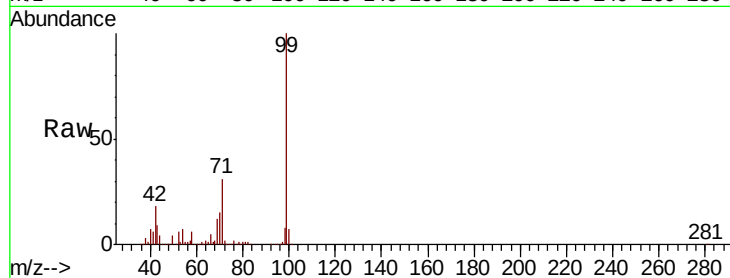
Tgt Ion: 99 Resp: 1418383

Ion Ratio Lower Upper

99 100

42 17.6 14.8 22.2

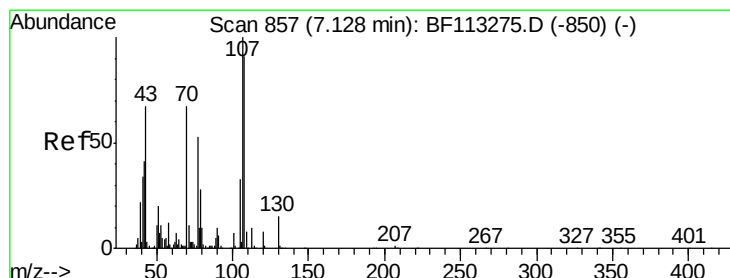
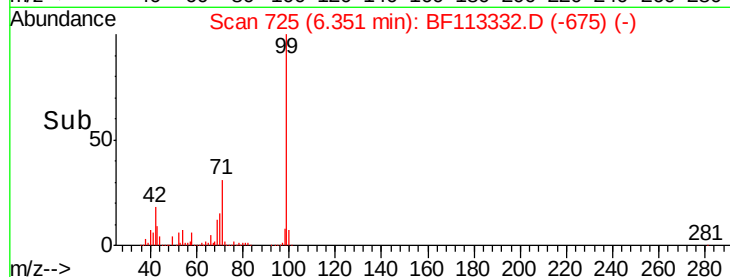
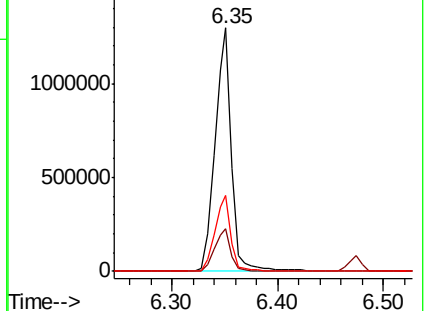
71 31.2 24.9 37.3



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: 12.340 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.14 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

Tgt Ion: 70 Resp: 111796

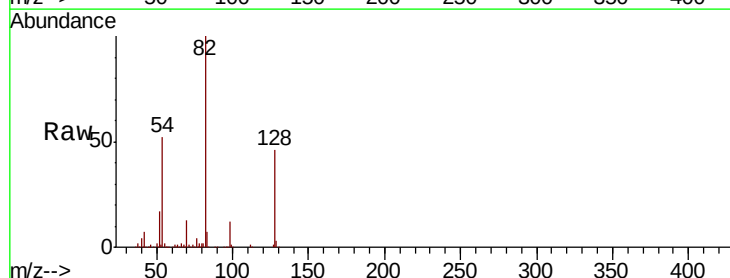
Ion Ratio Lower Upper

70 100

42 49.3 48.4 72.6

101 0.0 7.8 11.8#

130 2.1 18.2 27.4#

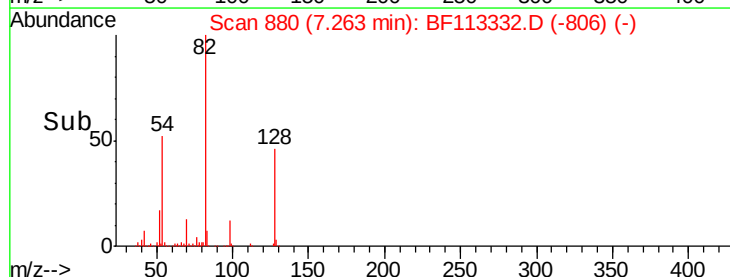
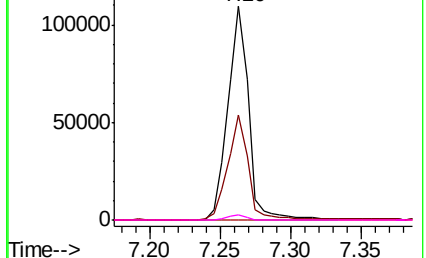


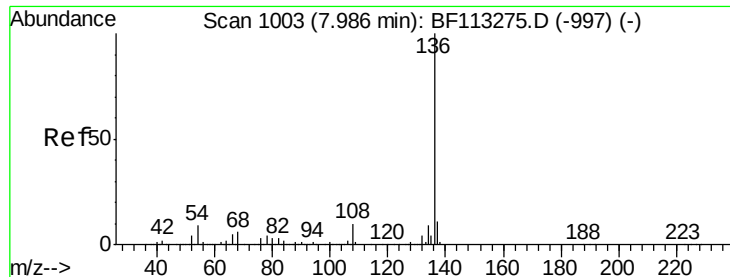
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

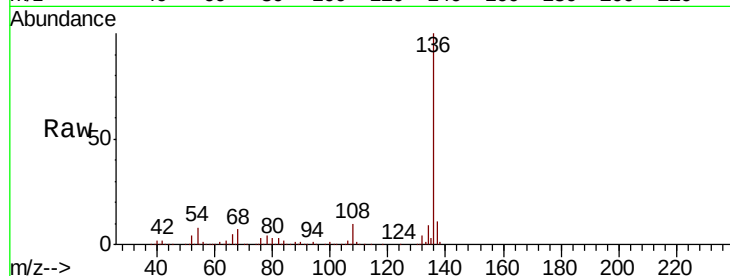




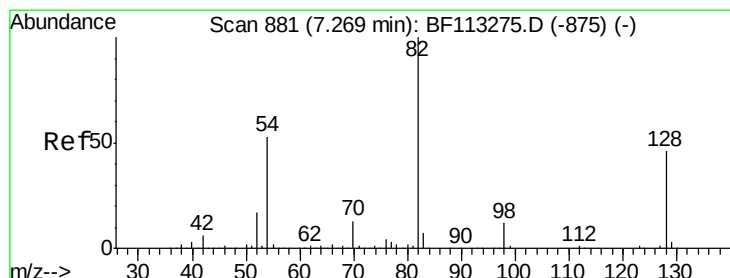
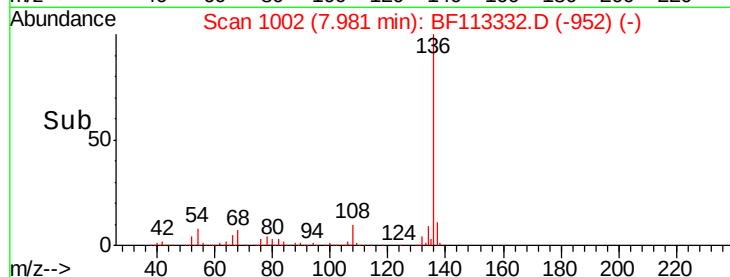
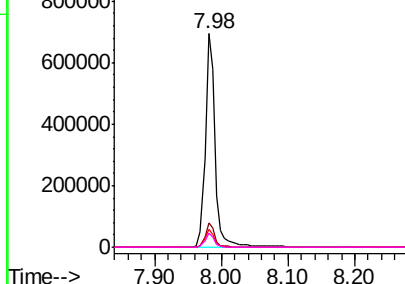
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.98 min Scan# 1002
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:	136	Resp:	703113
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.5	7.0	10.6
68	6.6	4.8	7.2

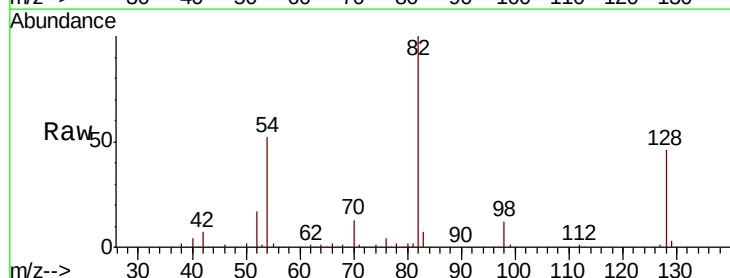


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

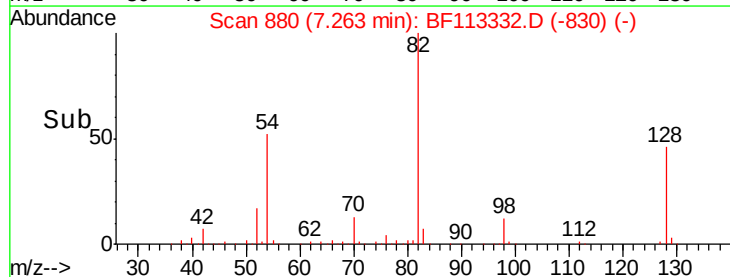
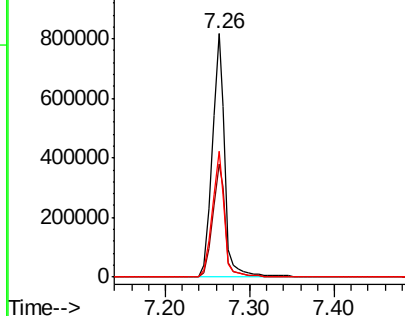


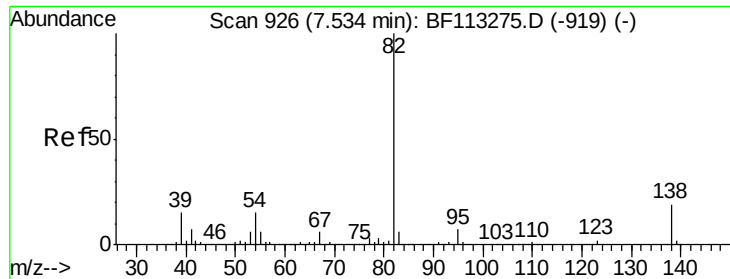
#23
Nitrobenzene-d5
Concen: 73.497 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.00 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion:	82	Resp:	870653
Ion	Ratio	Lower	Upper
82	100		
128	46.4	36.5	54.7
54	51.9	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

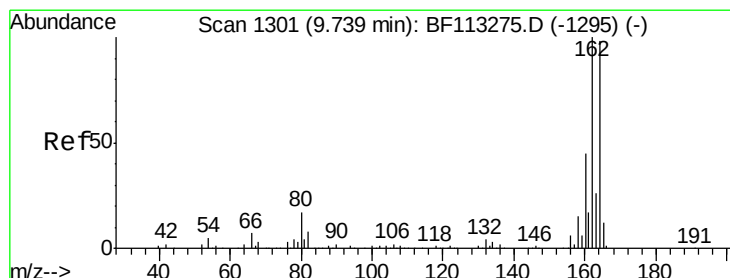
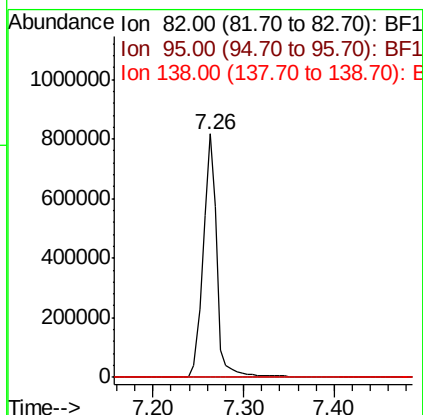
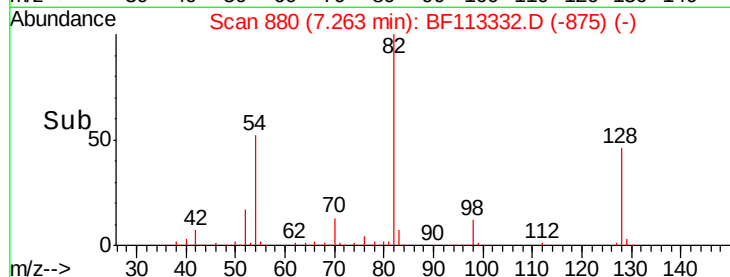
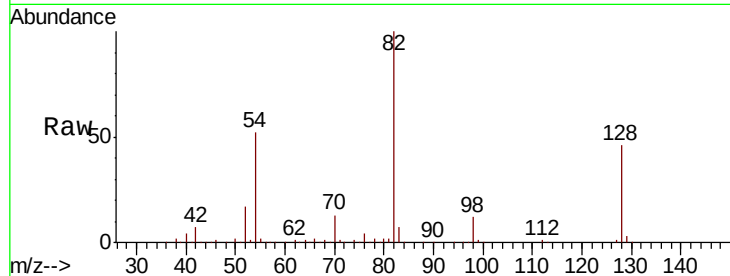




#25
Isophorone
Concen: 37.217 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.27 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

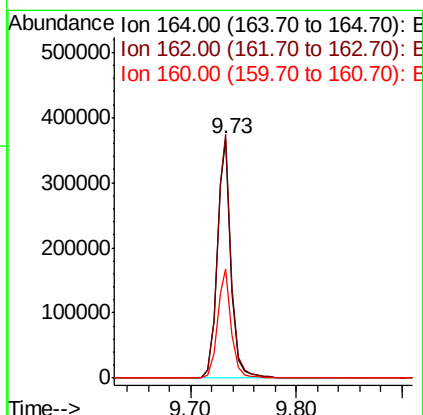
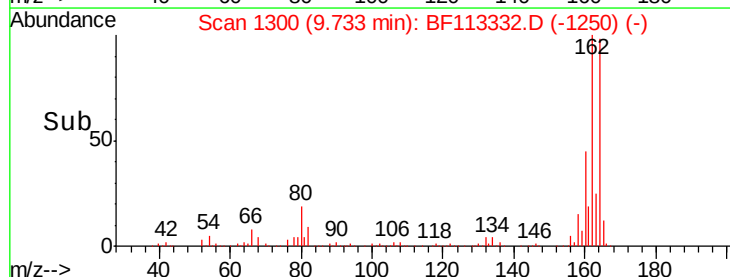
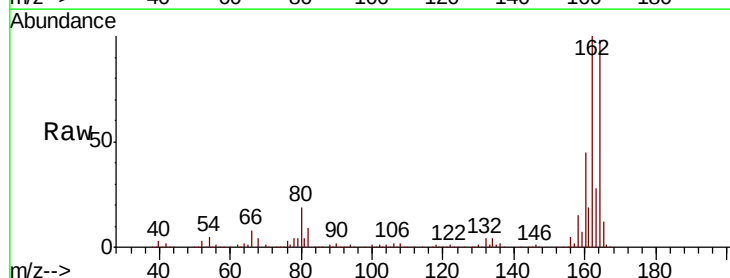
Instrument :
BNA_F
ClientSampleId :
CS-12

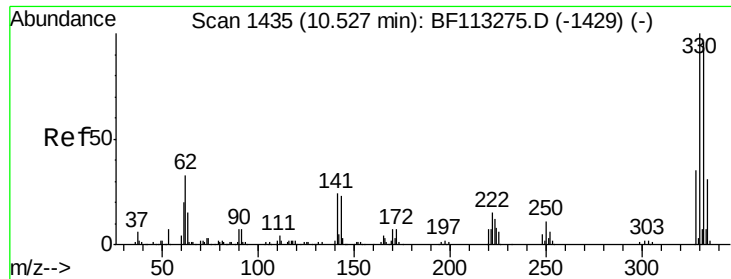
Tgt Ion: 82 Resp: 854398
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 15.2 22.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion: 164 Resp: 338133
Ion Ratio Lower Upper
164 100
162 101.9 81.8 122.6
160 45.7 36.4 54.6

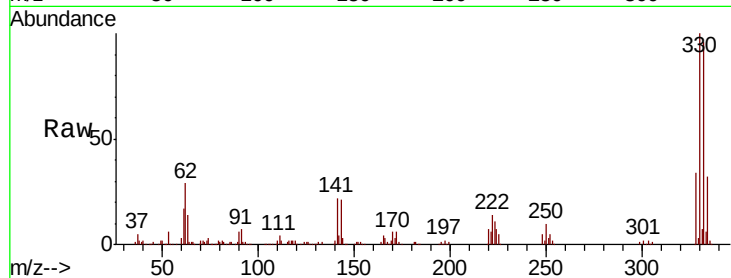




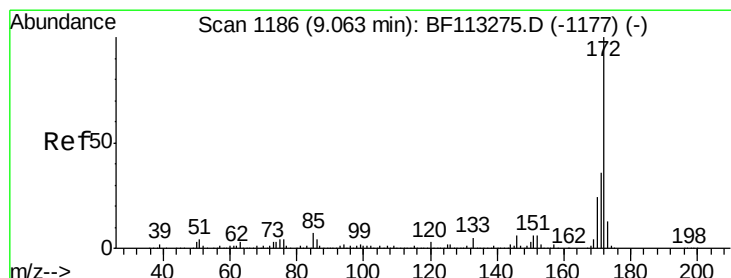
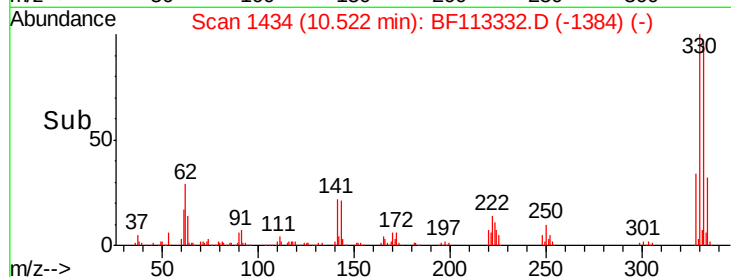
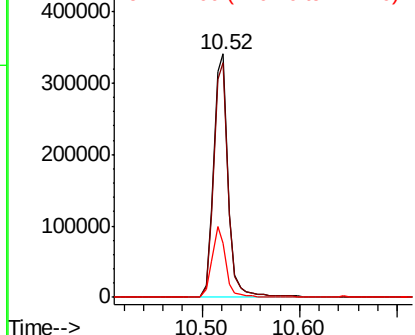
#42
 2,4,6-Tribromophenol
 Concen: 84.467 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113332.D
 Acq: 27 Mar 2019 15:50

Instrument :
 BNA_F
 ClientSampleId :
 CS-12

Tgt Ion:330 Resp: 352795
 Ion Ratio Lower Upper
 330 100
 332 96.5 77.8 116.6
 141 27.5 22.7 34.1

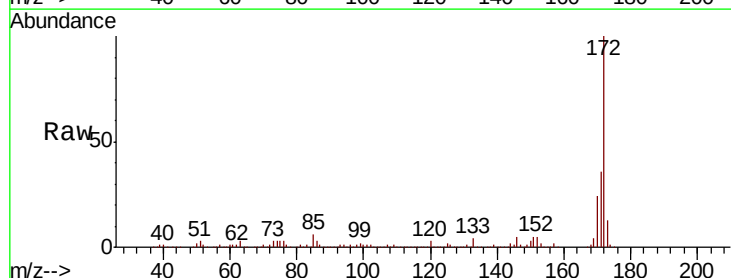


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

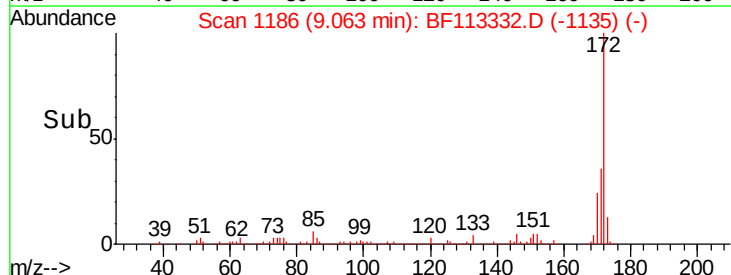
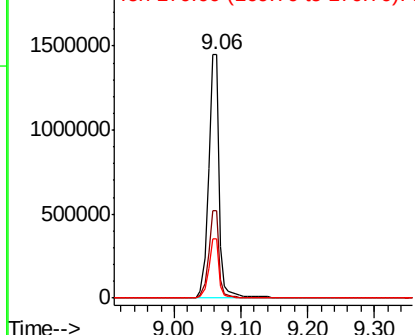


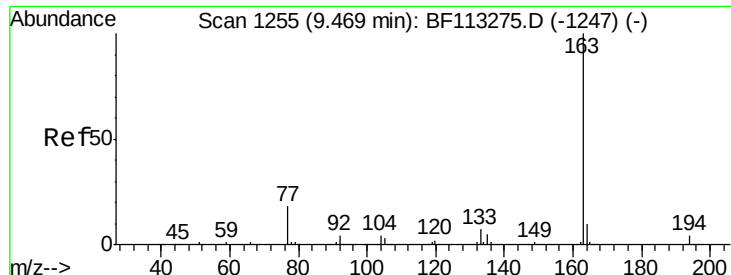
#45
 2-Fluorobiphenyl
 Concen: 71.740 ng
 RT: 9.06 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: BF113332.D
 Acq: 27 Mar 2019 15:50

Tgt Ion:172 Resp: 1607028
 Ion Ratio Lower Upper
 172 100
 171 36.1 29.0 43.6
 170 24.5 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

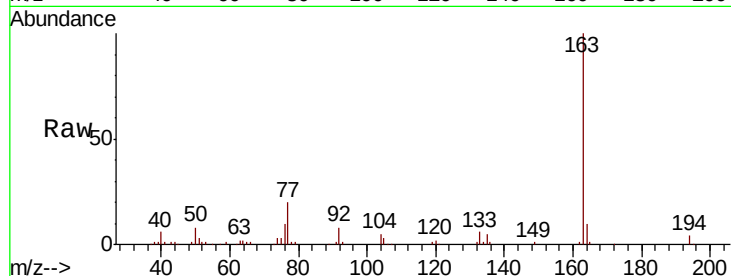




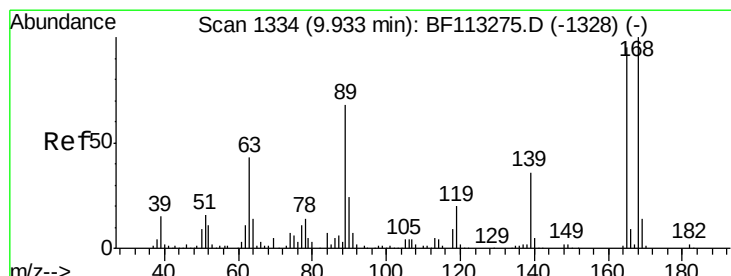
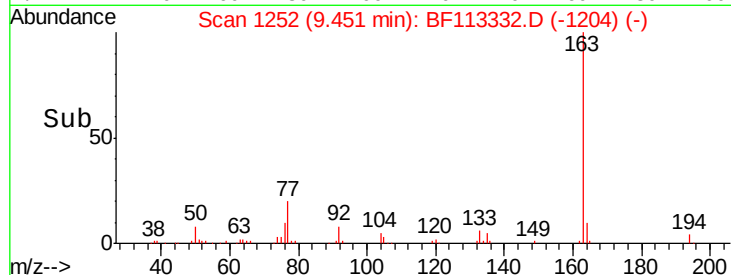
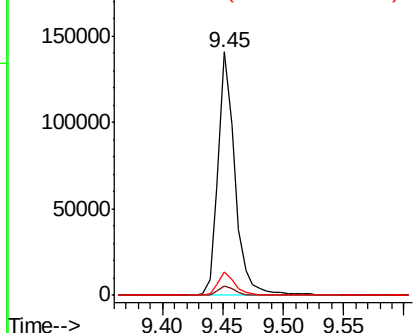
#50
Dimethylphthalate
Concen: 5.415 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Instrument :
BNA_F
ClientSampleId :
CS-12

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	9.7	8.1	12.1



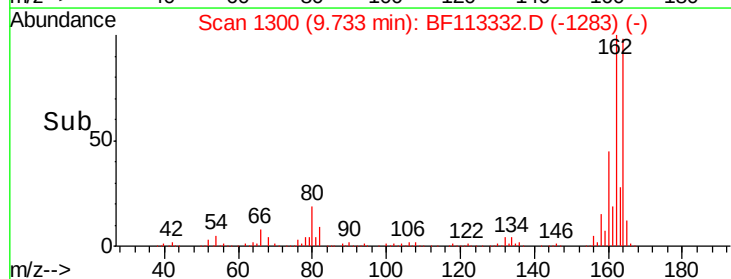
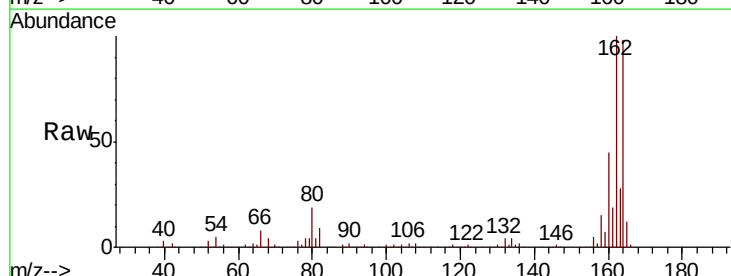
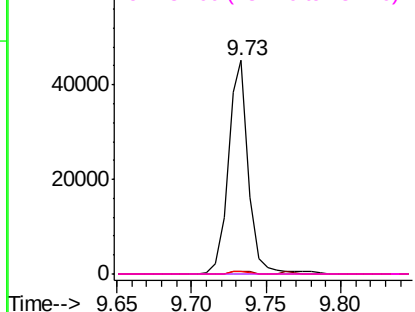
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

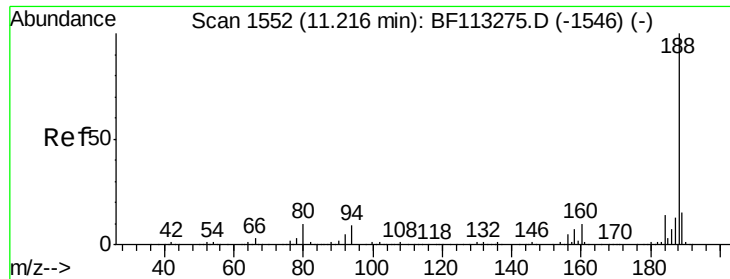


#57
2,4-Dinitrotoluene
Concen: 5.989 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.20 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	37.5	56.3#
89	1.2	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

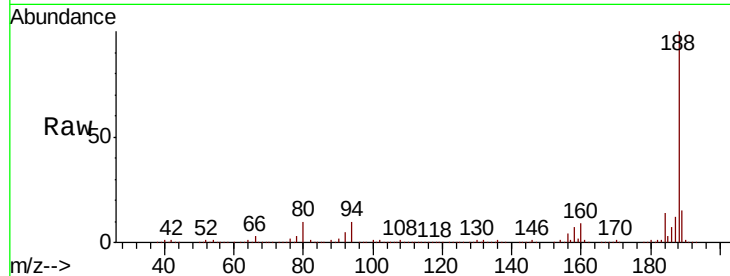




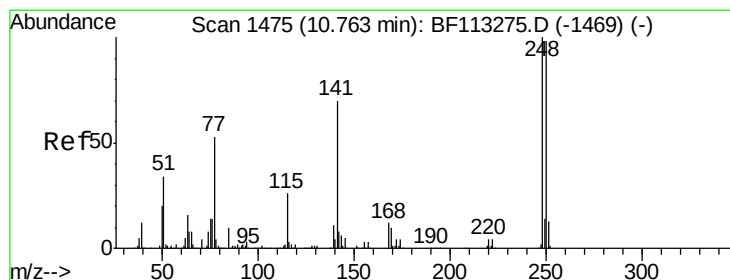
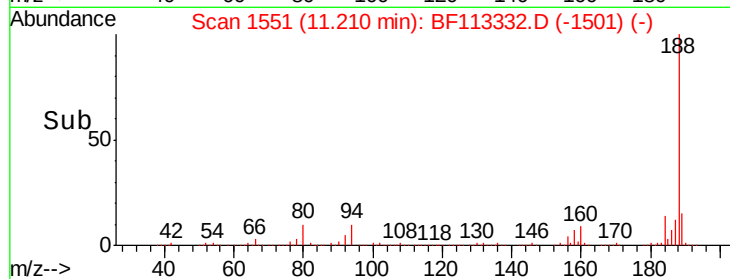
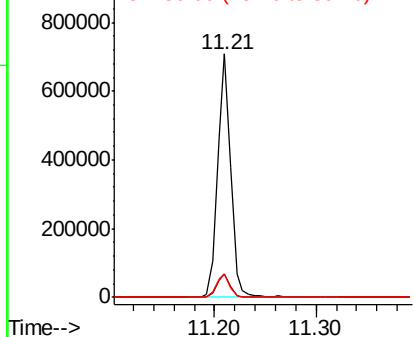
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Instrument :
BNA_F
ClientSampleId :
CS-12

Tgt Ion:188 Resp: 633457
Ion Ratio Lower Upper
188 100
94 9.5 7.0 10.6
80 9.5 7.7 11.5

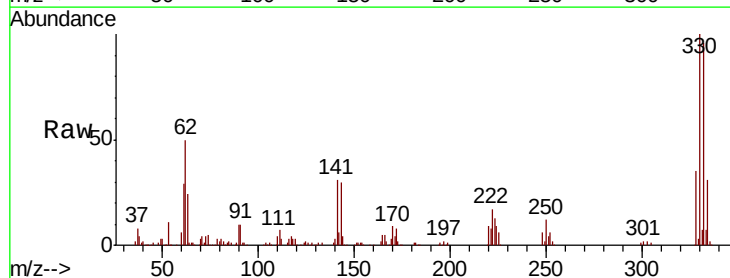


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

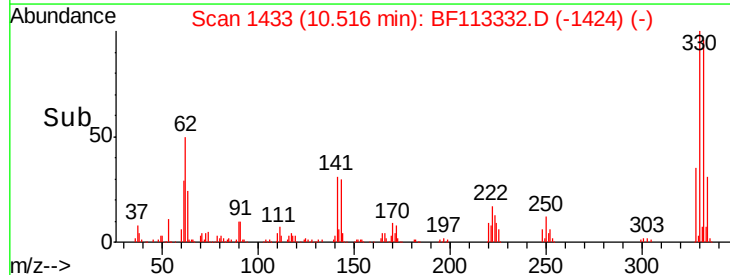
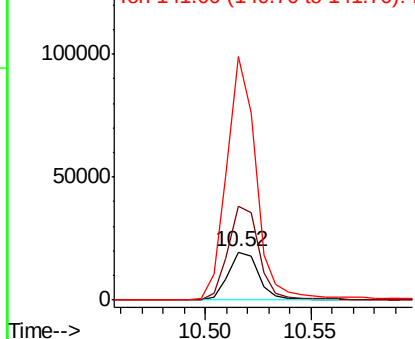


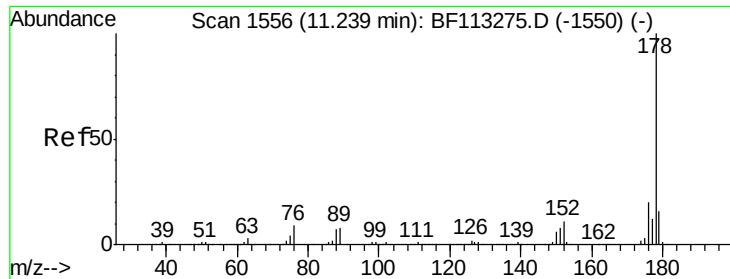
#67
4-Bromophenyl-phenylether
Concen: 2.880 ng
RT: 10.52 min Scan# 1433
Delta R.T. -0.25 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion:248 Resp: 19882
Ion Ratio Lower Upper
248 100
250 195.3 78.3 117.5#
141 506.9 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: 7.354 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

Instrument :

BNA_F

ClientSampleId :

CS-12

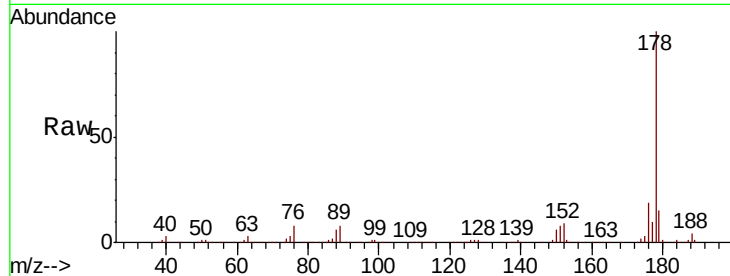
Tgt Ion:178 Resp: 231329

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.2

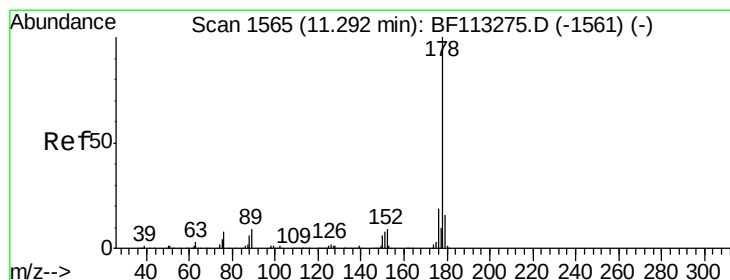
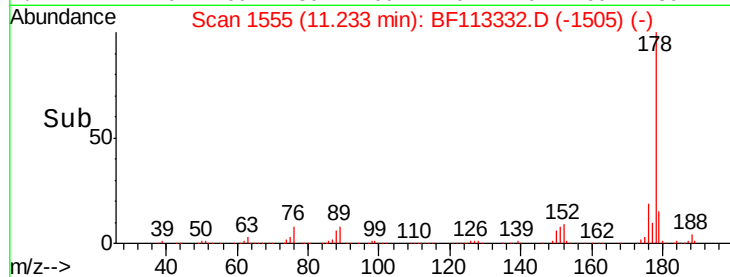
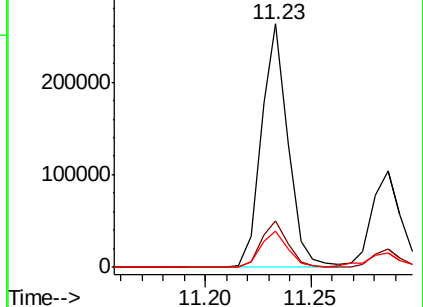
179 14.8 12.7 19.1



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: 3.408 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

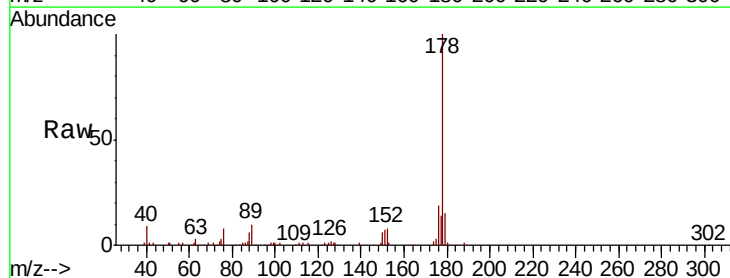
Tgt Ion:178 Resp: 108888

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

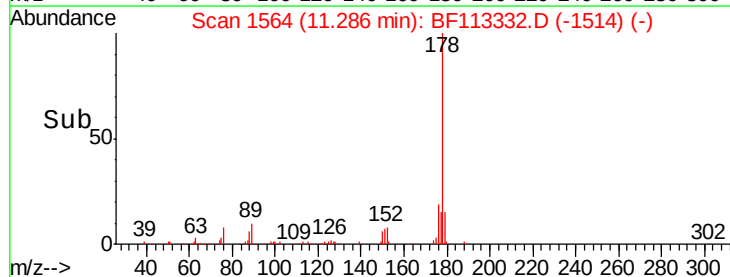
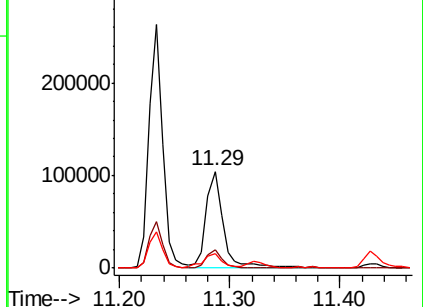
179 15.0 12.8 19.2

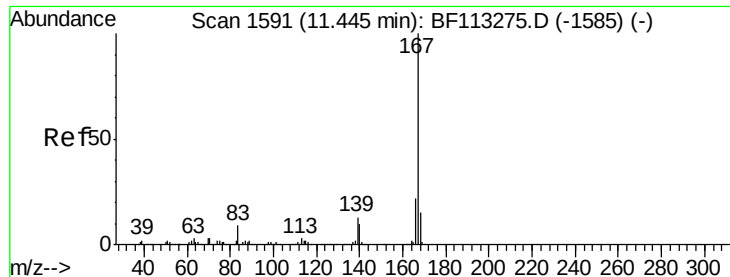


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

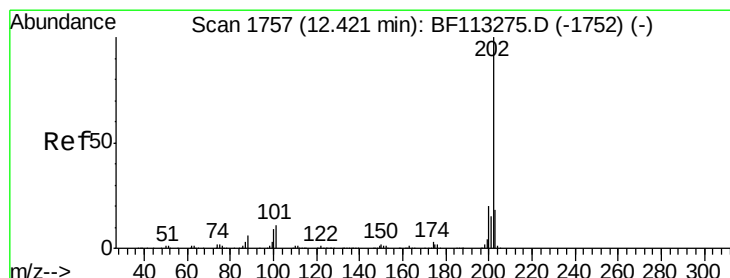
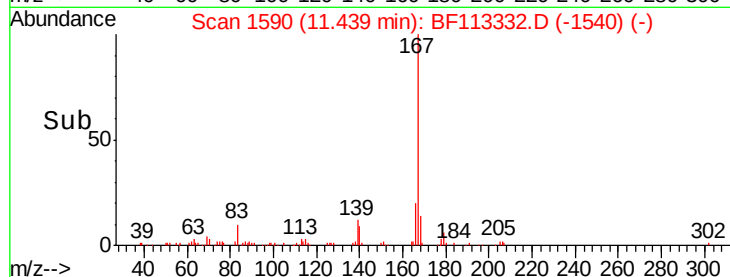
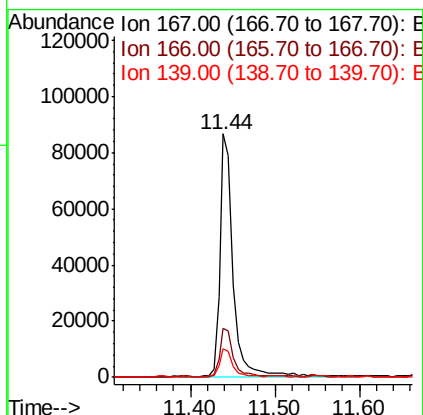
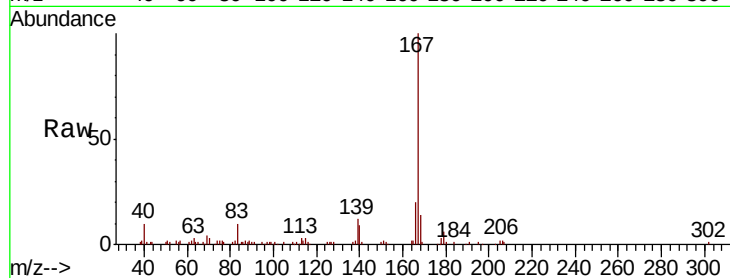




#73
 Carbazole
 Concen: 3.179 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF113332.D
 Acq: 27 Mar 2019 15:50

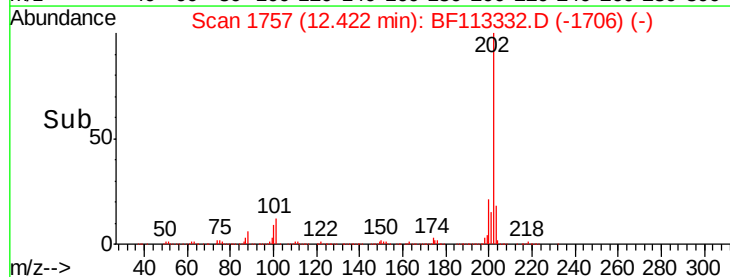
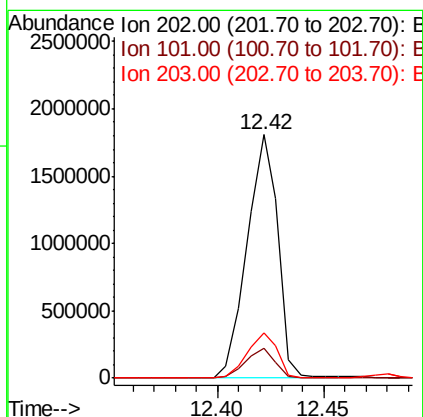
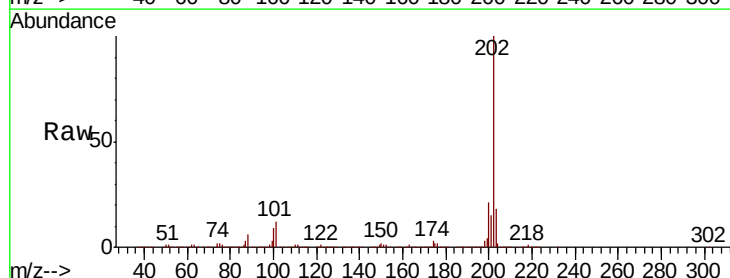
Instrument :
 BNA_F
 ClientSampleId :
 CS-12

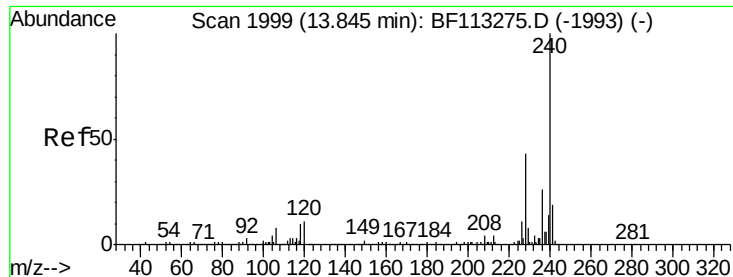
Tgt Ion:167 Resp: 96915
 Ion Ratio Lower Upper
 167 100
 166 20.1 17.4 26.0
 139 11.9 10.4 15.6



#75
 Fluoranthene
 Concen: 51.317 ng
 RT: 12.42 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: BF113332.D
 Acq: 27 Mar 2019 15:50

Tgt Ion:202 Resp: 1824954
 Ion Ratio Lower Upper
 202 100
 101 12.4 0.0 31.4
 203 18.5 0.0 38.0

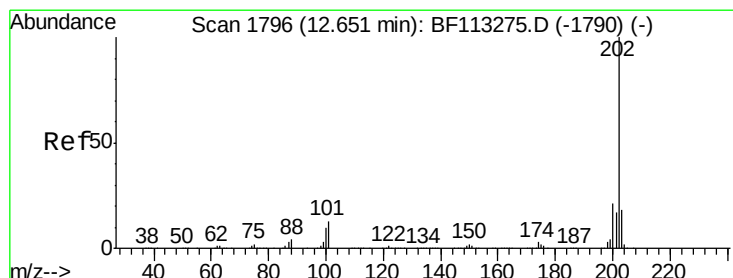
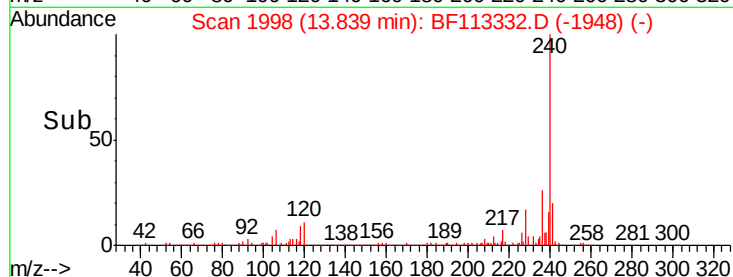
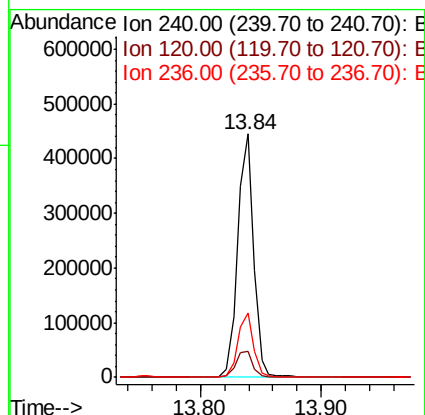
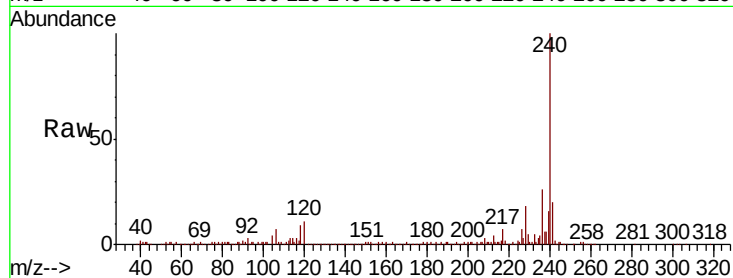




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.84 min Scan# 1998
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

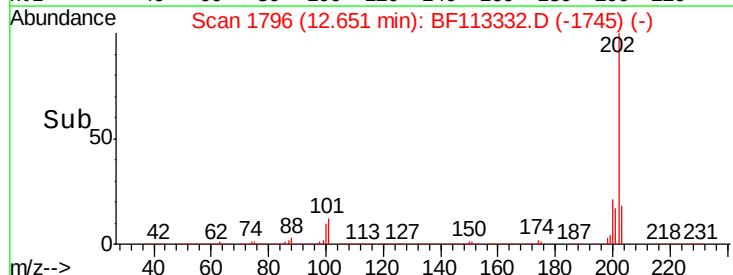
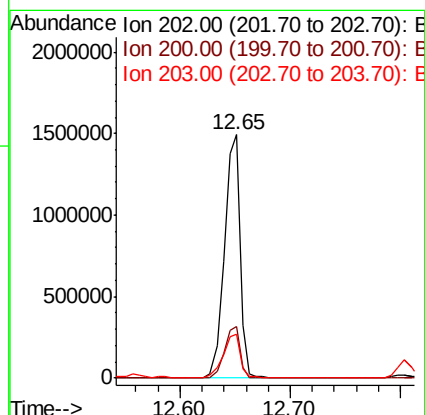
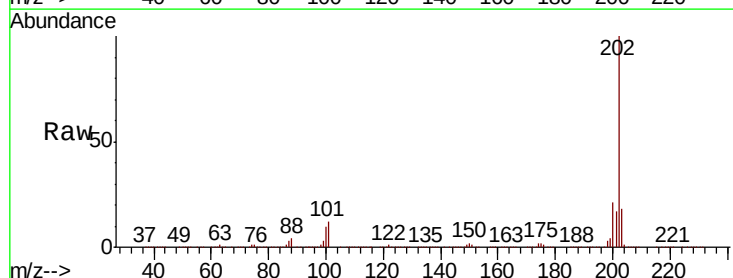
Instrument :
BNA_F
ClientSampleId :
CS-12

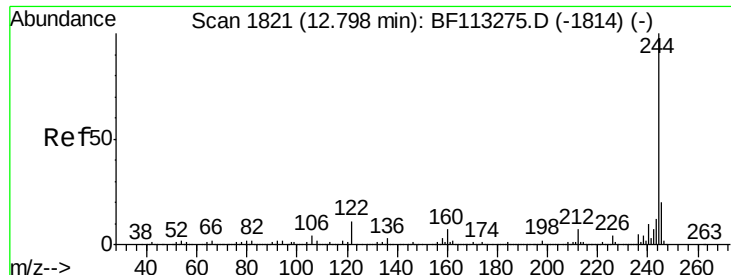
Tgt Ion:240 Resp: 411961
Ion Ratio Lower Upper
240 100
120 10.6 8.8 13.2
236 26.4 20.9 31.3



#78
Pyrene
Concen: 52.097 ng
RT: 12.65 min Scan# 1796
Delta R.T. 0.00 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion:202 Resp: 1487239
Ion Ratio Lower Upper
202 100
200 21.4 16.8 25.2
203 18.0 14.4 21.6





#79

Terphenyl-d14

Concen: 76.125 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.00 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

Instrument :

BNA_F

ClientSampleId :

CS-12

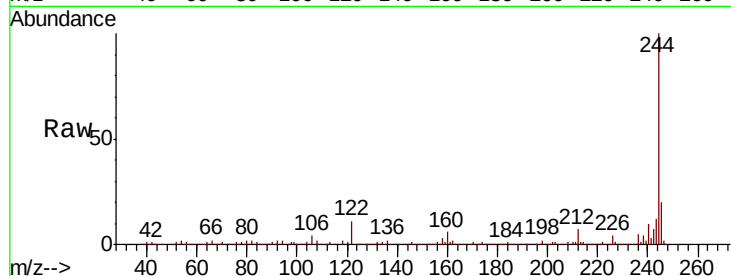
Tgt Ion:244 Resp: 1422786

Ion Ratio Lower Upper

244 100

212 6.7 5.5 8.3

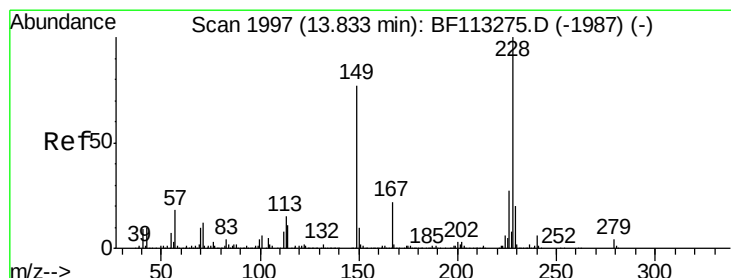
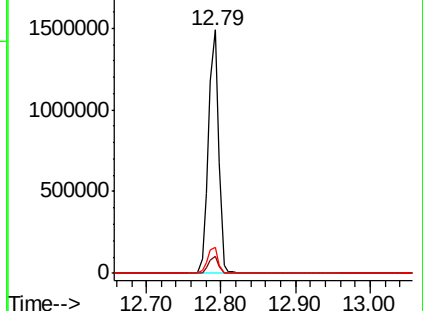
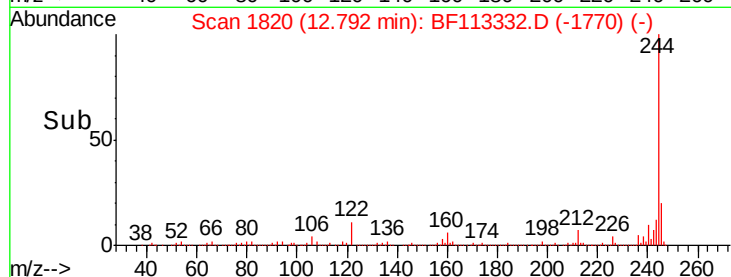
122 10.9 8.6 13.0



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: 9.532 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

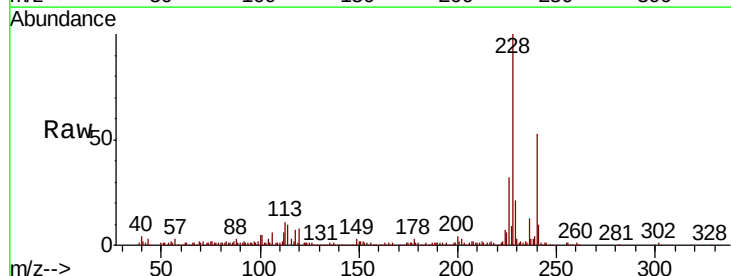
Tgt Ion:228 Resp: 224781

Ion Ratio Lower Upper

228 100

226 32.4 21.8 32.8

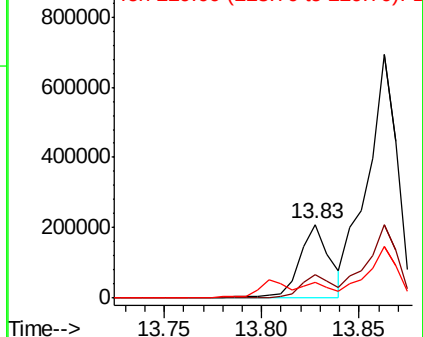
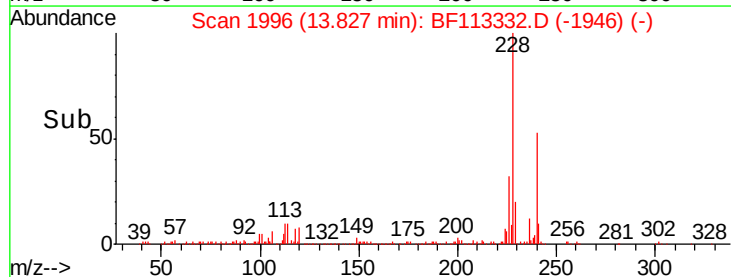
229 20.9 16.2 24.4

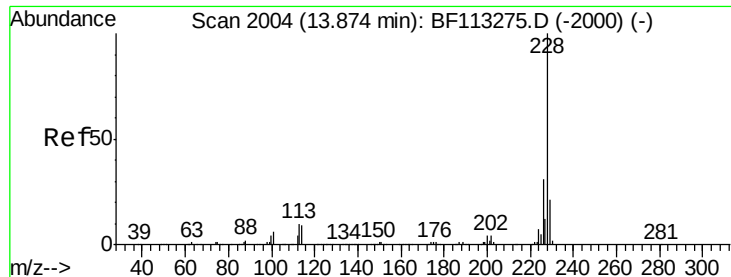


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 30.696 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

Instrument :

BNA_F

ClientSampleId :

CS-12

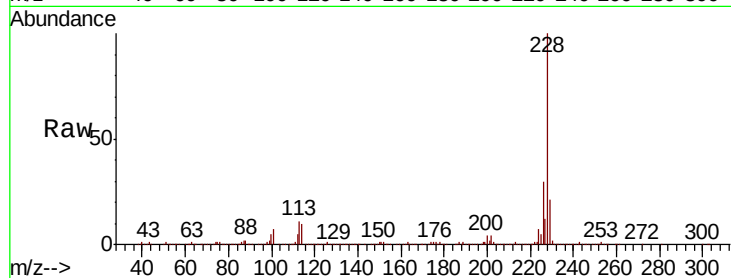
Tgt Ion:228 Resp: 735246

Ion Ratio Lower Upper

228 100

226 30.0 24.3 36.5

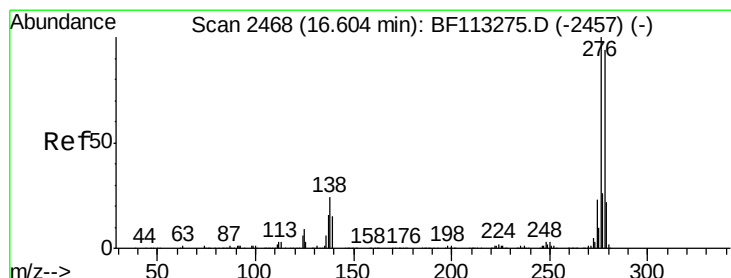
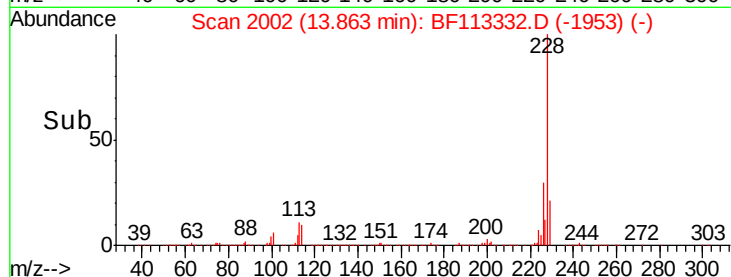
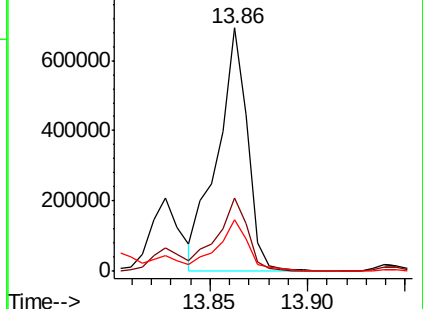
229 21.4 16.3 24.5



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: 9.723 ng

RT: 16.59 min Scan# 2465

Delta R.T. -0.02 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

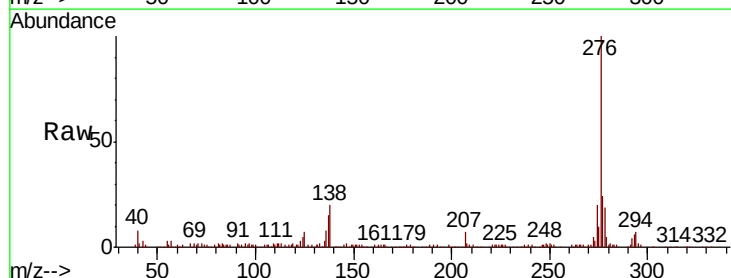
Tgt Ion:276 Resp: 199861

Ion Ratio Lower Upper

276 100

138 20.8 18.1 27.1

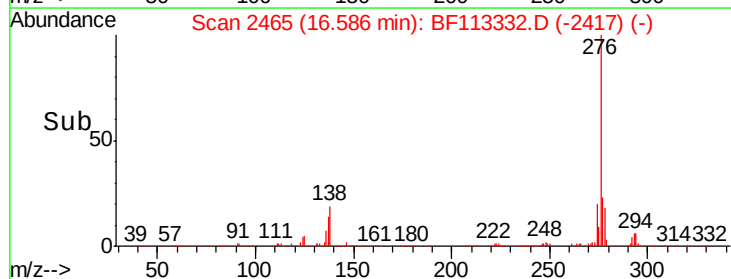
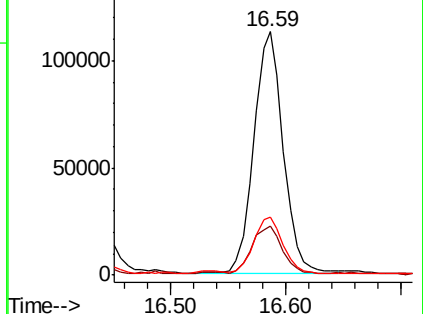
277 23.5 20.2 30.4

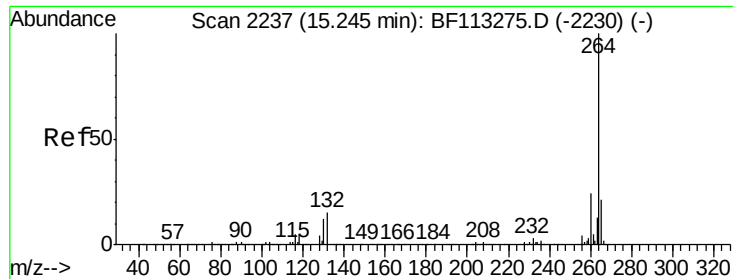


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



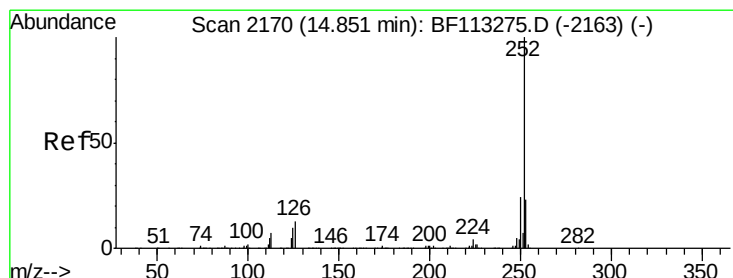
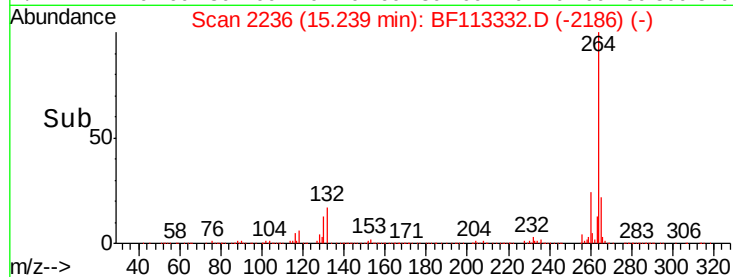
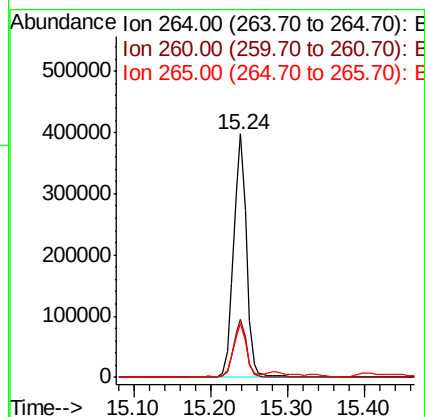
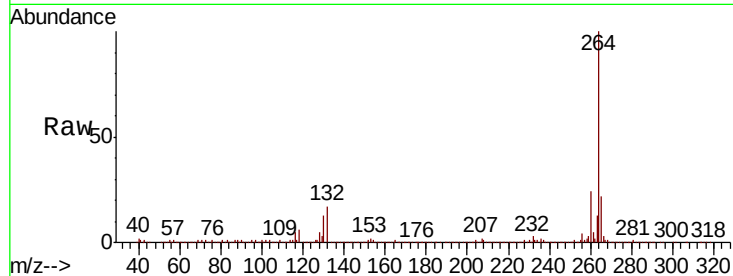


#87
Perylene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Instrument :
BNA_F
ClientSampleId :
CS-12

Tgt Ion:264 Resp: 472113

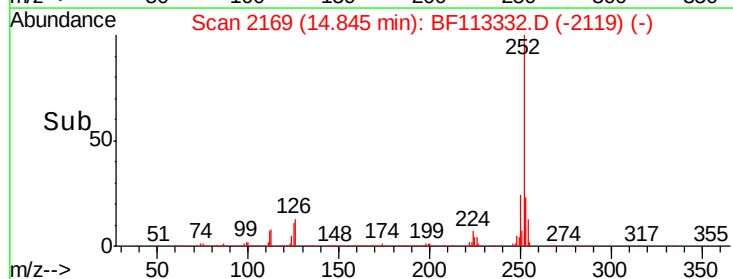
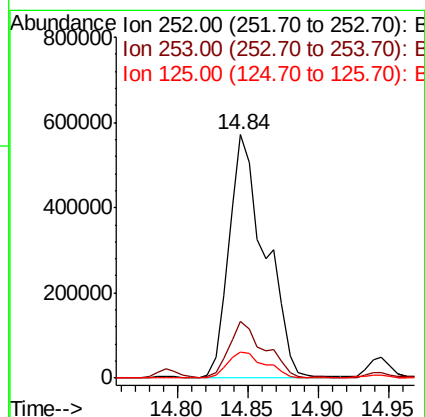
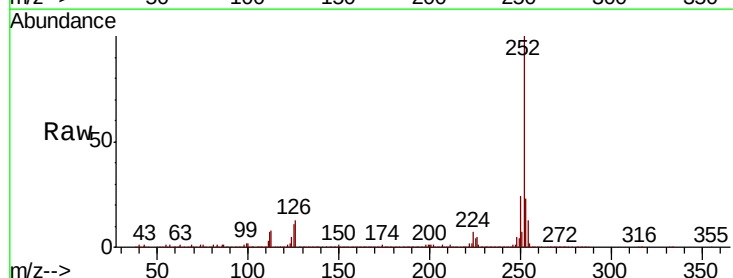
Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	22.1	17.1	25.7

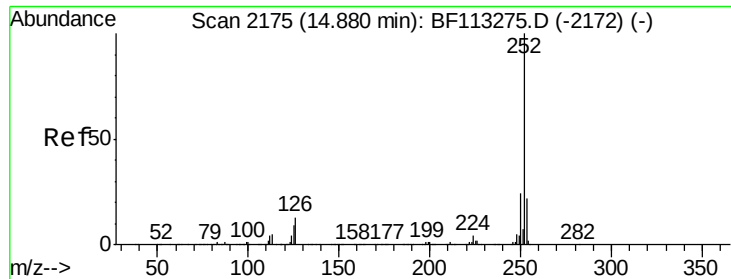


#88
Benzo(b)fluoranthene
Concen: 34.657 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion:252 Resp: 1016396

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	10.7	7.6	11.4

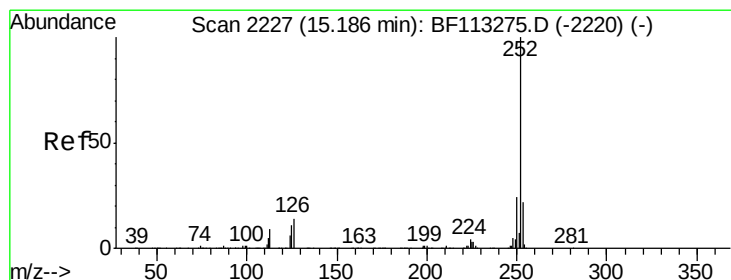
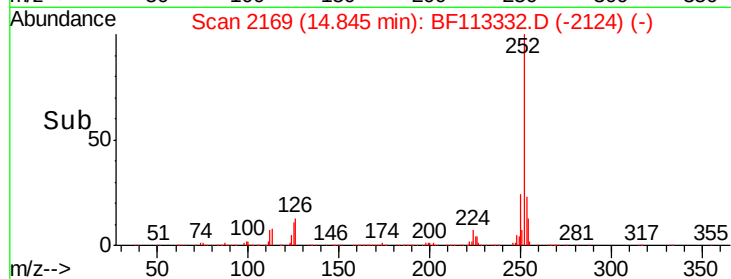
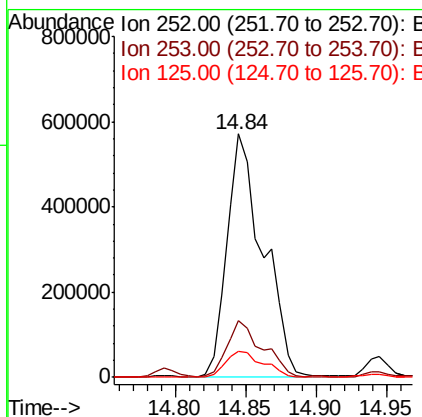
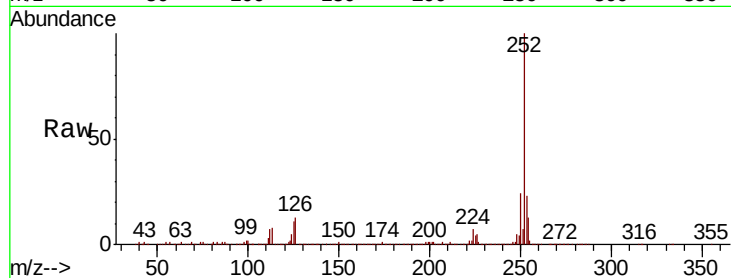




#89
Benzo(k)fluoranthene
Concen: 39.464 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.04 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

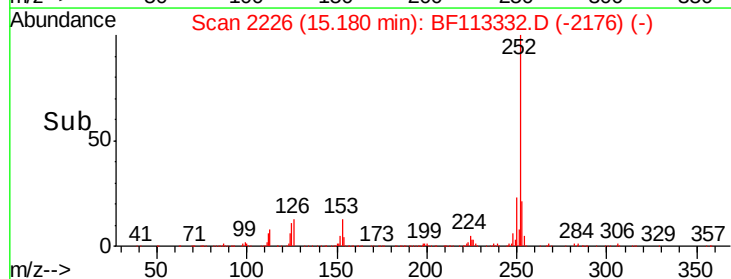
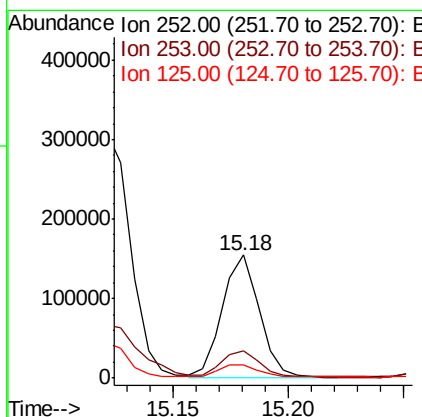
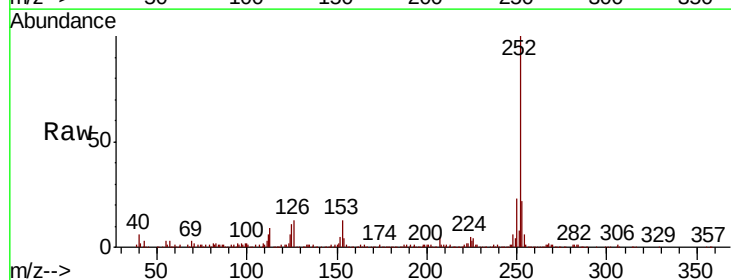
Instrument :
BNA_F
ClientSampleId :
CS-12

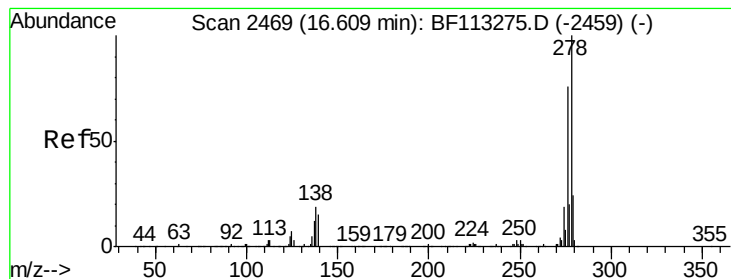
Tgt Ion:252 Resp: 1016396
Ion Ratio Lower Upper
252 100
253 23.1 17.7 26.5
125 10.7 7.3 10.9



#90
Benzo(a)pyrene
Concen: 6.599 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF113332.D
Acq: 27 Mar 2019 15:50

Tgt Ion:252 Resp: 171561
Ion Ratio Lower Upper
252 100
253 22.4 17.9 26.9
125 11.0 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 2.050 ng

RT: 16.59 min Scan# 2466

Delta R.T. -0.02 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

Instrument :

BNA_F

ClientSampleId :

CS-12

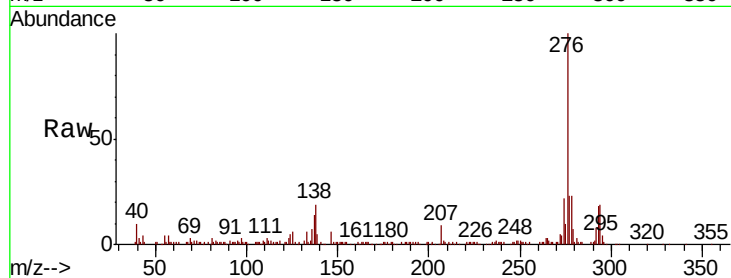
Tgt Ion:278 Resp: 46083

Ion Ratio Lower Upper

278 100

139 22.0 12.0 18.0#

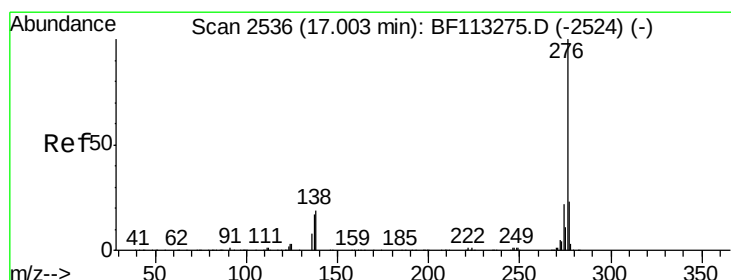
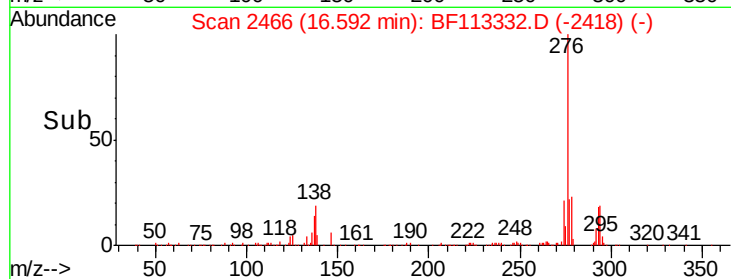
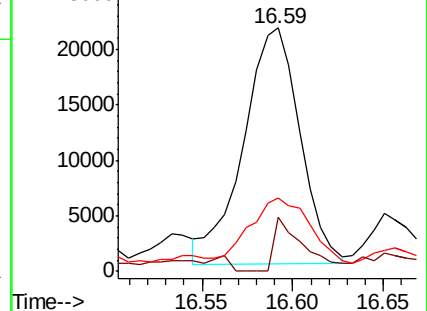
279 30.0 19.0 28.6#



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: 7.529 ng

RT: 16.99 min Scan# 2534

Delta R.T. -0.01 min

Lab File: BF113332.D

Acq: 27 Mar 2019 15:50

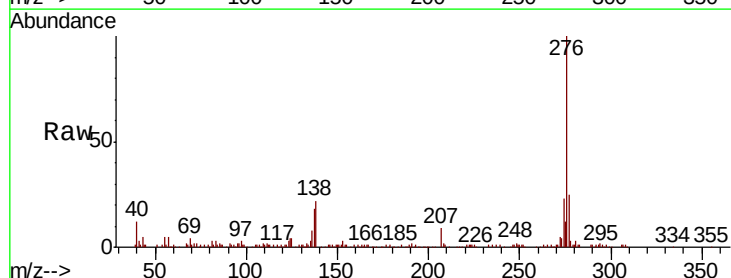
Tgt Ion:276 Resp: 170658

Ion Ratio Lower Upper

276 100

277 25.0 18.8 28.2

138 21.6 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

