

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101421.D
 Acq On : 15 Dec 2017 3:50
 Operator : SJ/JU
 Sample : I6877-02 50X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 15 04:54:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	173996	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	729500	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	313479	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	564347	20.00	ng	0.00
75) Chrysene-d12	13.99	240	378329	20.00	ng	-0.01
86) Perylene-d12	15.46	264	334447	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	22407	1.92	ng	0.03
7) Phenol-d6	6.49	99	32857	2.26	ng	0.03
23) Nitrobenzene-d5	7.41	82	20181	1.54	ng	0.02
41) 2,4,6-Tribromophenol	10.66	330	6176	2.04	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	35116	1.74	ng	0.00
78) Terphenyl-d14	12.92	244	29562	1.88	ng	-0.01

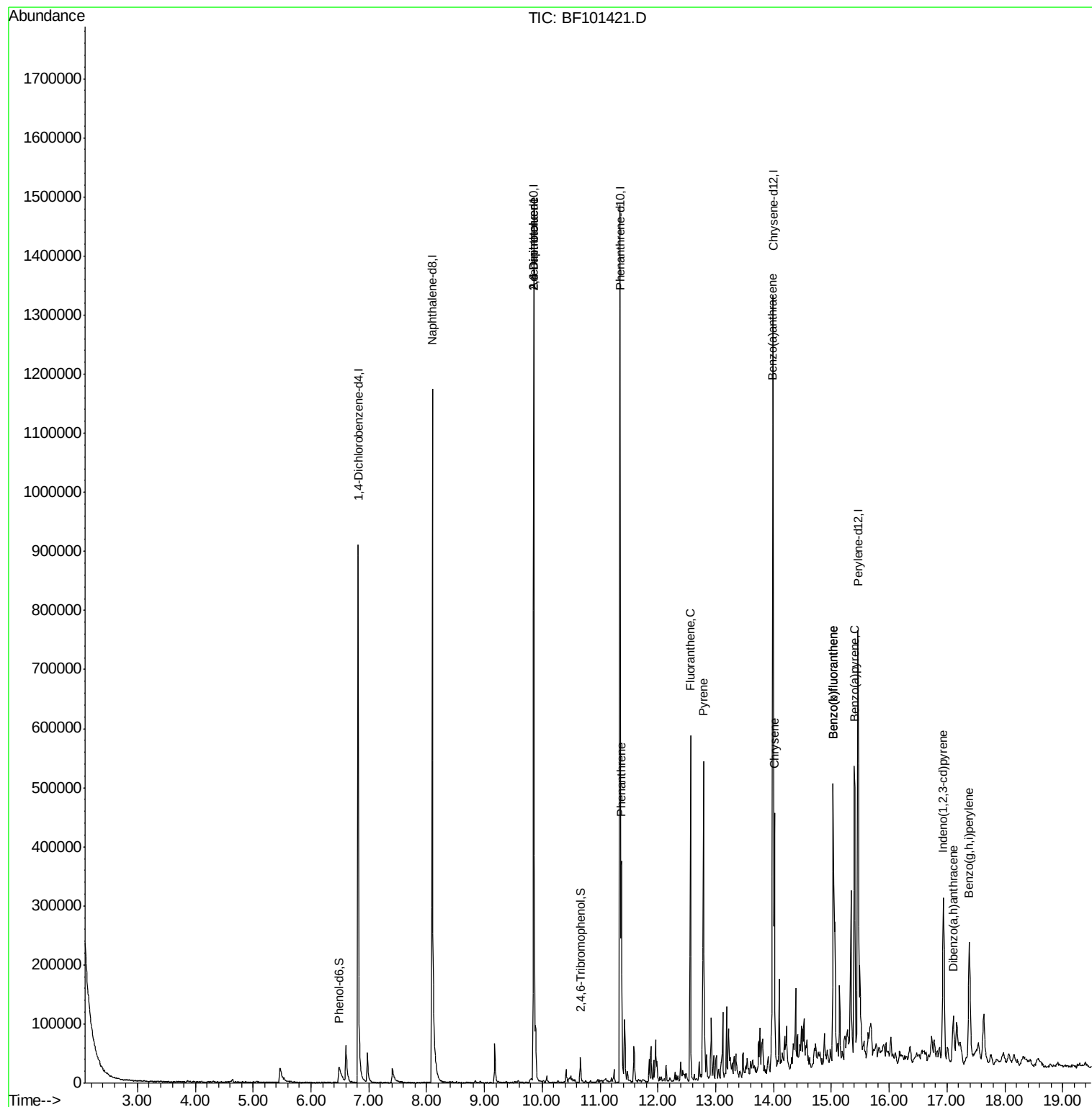
Target Compounds				Qvalue		
50) 2,6-Dinitrotoluene	9.85	165	39352	7.679	ng	# 25
56) 2,4-Dinitrotoluene	9.85	165	39352	6.815	ng	# 23
70) Phenanthrene	11.37	178	150305	4.789	ng	99
74) Fluoranthene	12.56	202	260494	7.908	ng	96
77) Pyrene	12.79	202	246095	8.667	ng	99
80) Benzo(a)anthracene	13.98	228	185208	7.414	ng	97
82) Chrysene	14.02	228	150359	6.375	ng	98
85) Indeno(1,2,3-cd)pyrene	16.94	276	166836	7.943	ng	# 92
87) Benzo(b)fluoranthene	15.03	252	344502	16.900	ng	98
88) Benzo(k)fluoranthene	15.03	252	344502	17.381	ng	99
89) Benzo(a)pyrene	15.40	252	230470	12.264	ng	96
90) Dibenzo(a,h)anthracene	17.11	278	45863	2.842	ng	97
91) Benzo(a,h,i)perylene	17.39	276	153467	9.606	ng	96

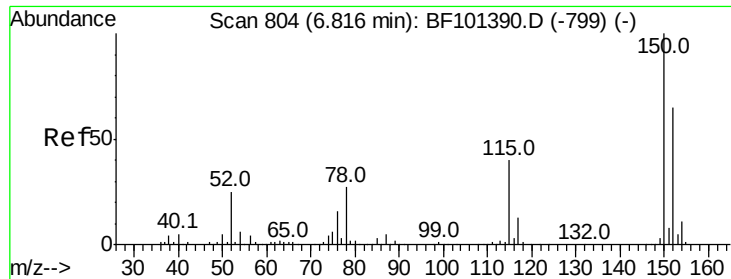
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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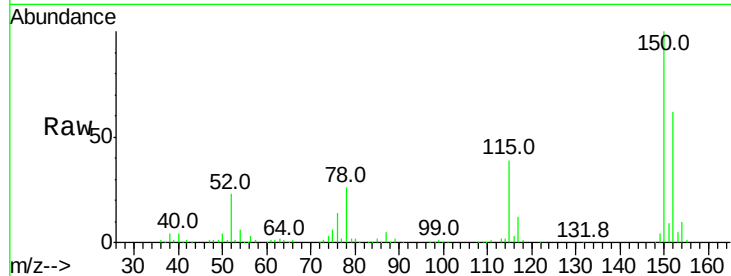


#1

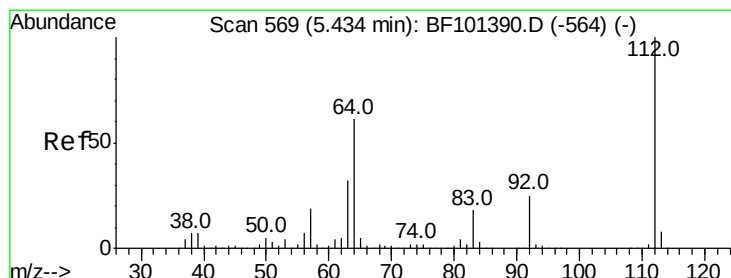
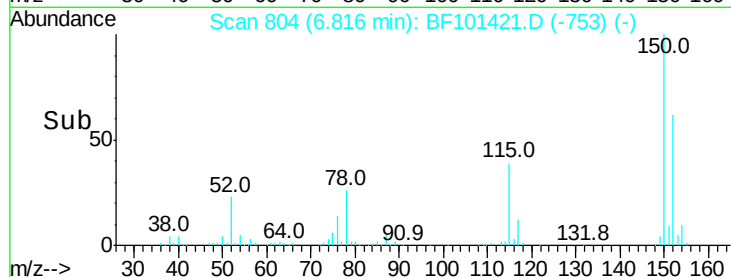
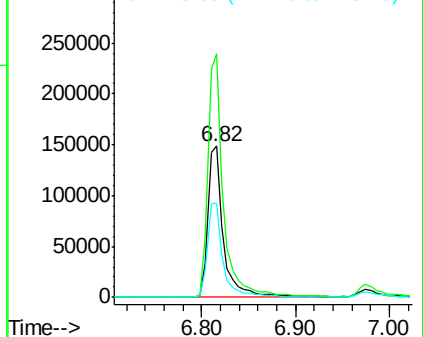
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 173996
Ion Ratio Lower Upper
152 100
150 161.0 124.6 186.8
115 62.2 50.1 75.1



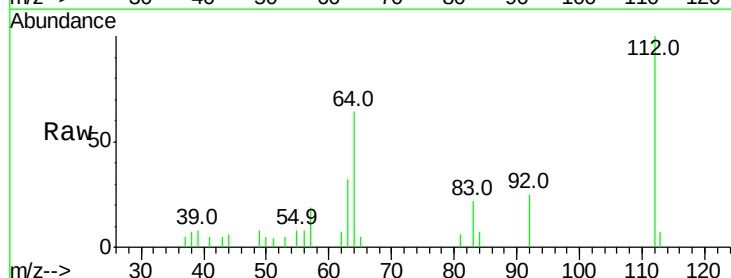
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



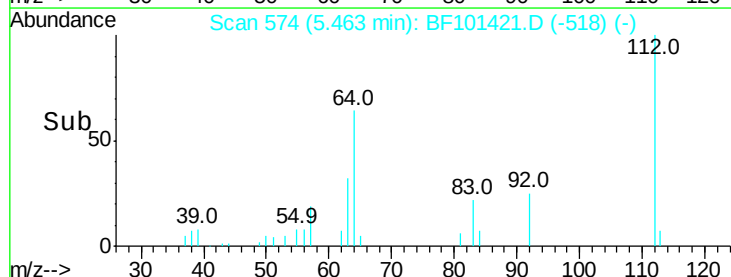
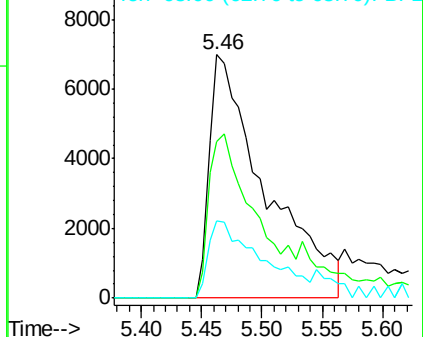
#5

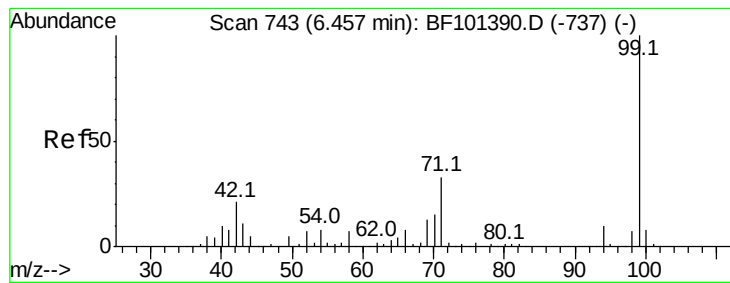
2-Fluorophenol
Concen: 1.918 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.03 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Tgt Ion:112 Resp: 22407
Ion Ratio Lower Upper
112 100
64 64.2 47.9 71.9
63 31.8 23.7 35.5



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: 2.260 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.03 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Instrument :

BNA_F

ClientSampleId :

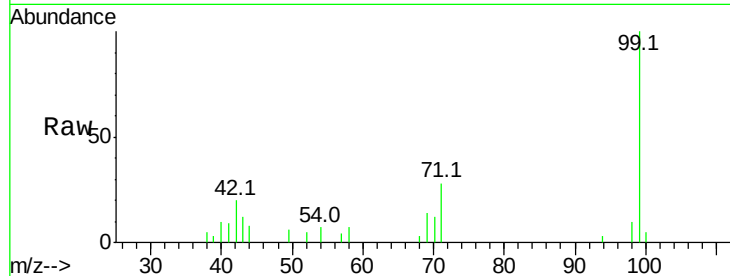
Tot Ion: 99 Resp: 32857

Ion Ratio Lower Upper

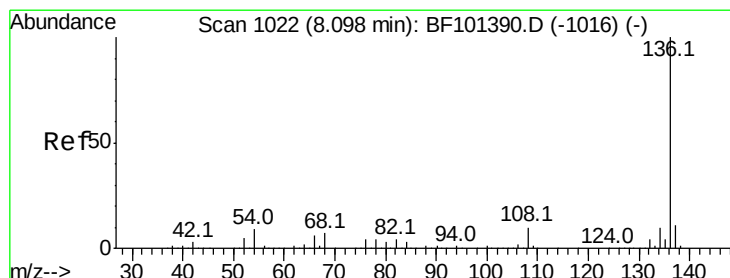
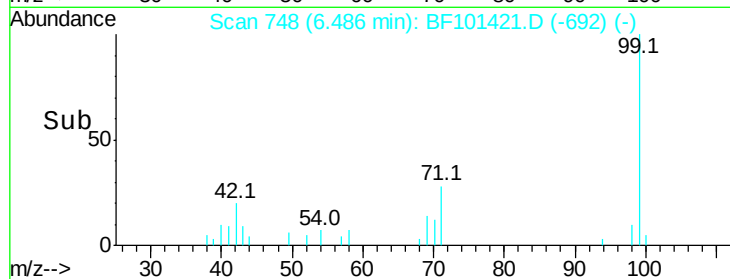
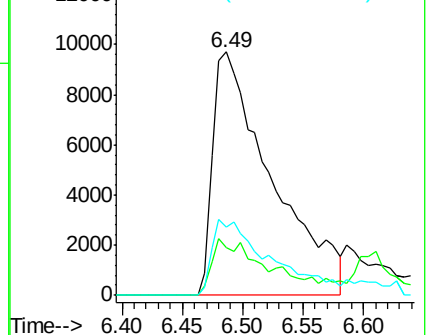
99 100

42 19.8 14.5 21.7

71 27.8 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Tgt Ion: 136 Resp: 729500

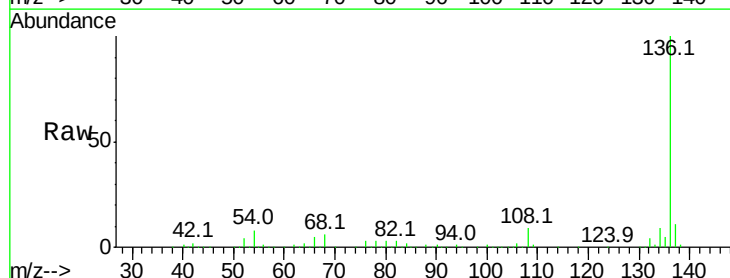
Ion Ratio Lower Upper

136 100

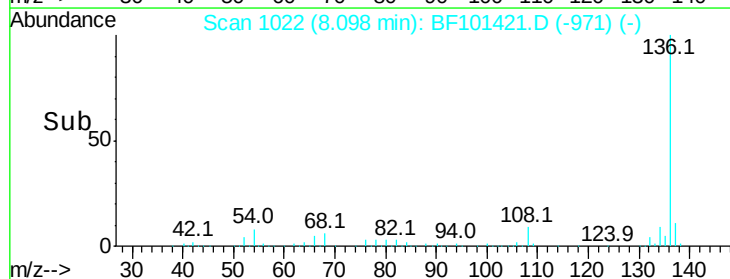
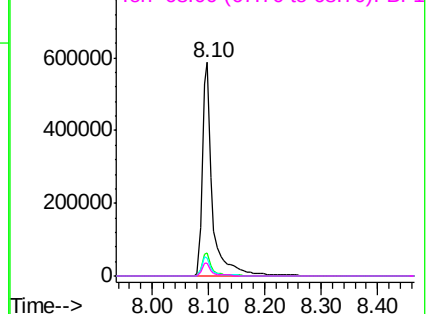
137 10.9 8.9 13.3

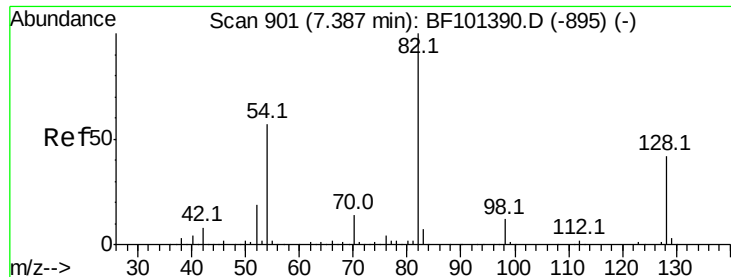
54 8.3 6.6 9.8

68 6.0 5.0 7.4



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

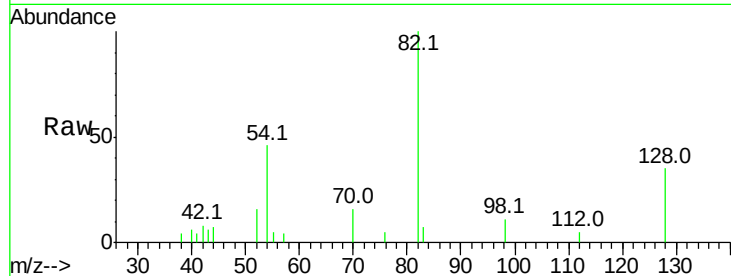




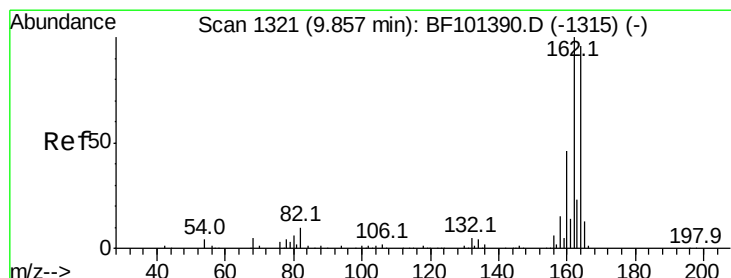
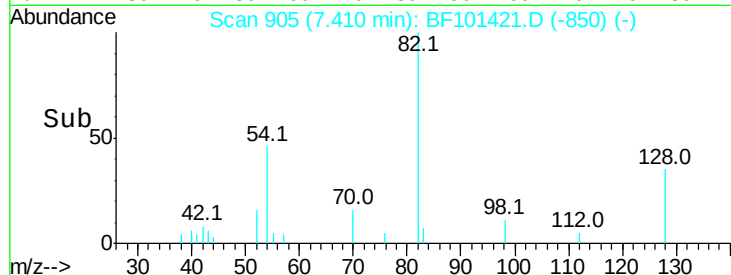
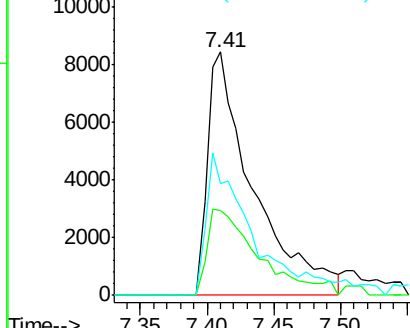
#23
Nitrobenzene-d5
Concen: 1.540 ng
RT: 7.41 min Scan# 905
Delta R.T. 0.02 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 20181
Ion Ratio Lower Upper
82 100
128 34.9 36.1 54.1#
54 46.0 41.4 62.2

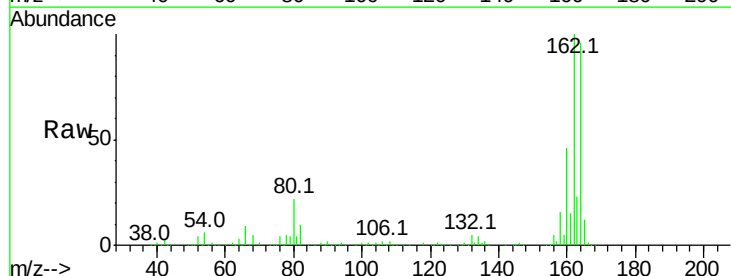


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

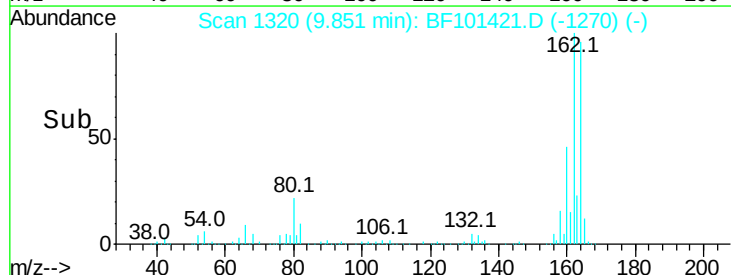
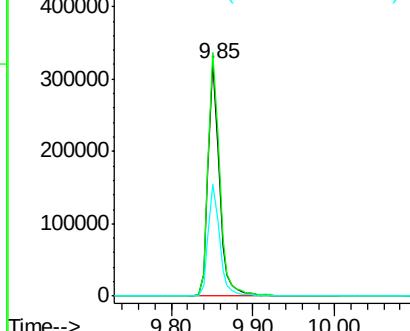


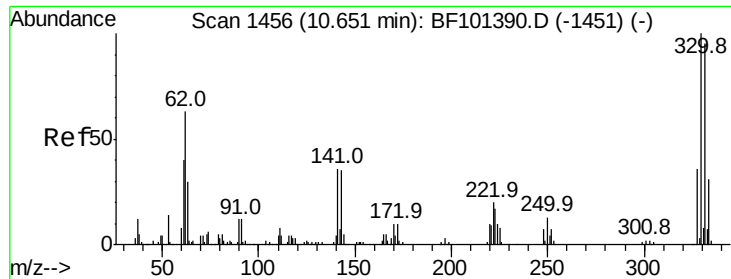
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Tgt Ion:164 Resp: 313479
Ion Ratio Lower Upper
164 100
162 104.5 86.1 129.1
160 48.2 38.3 57.5



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

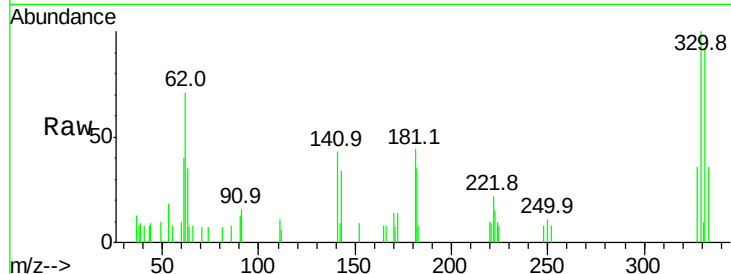




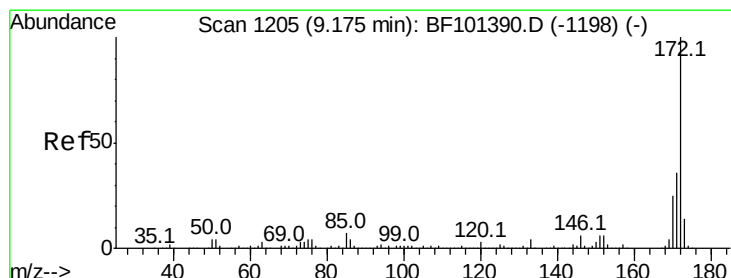
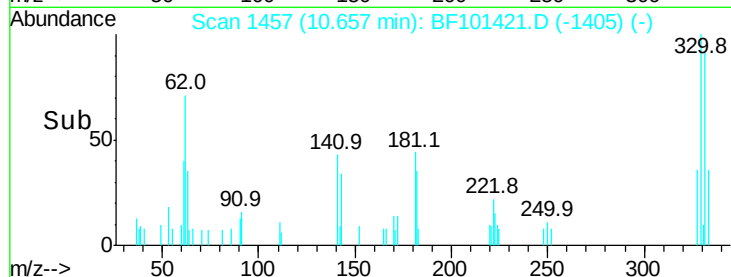
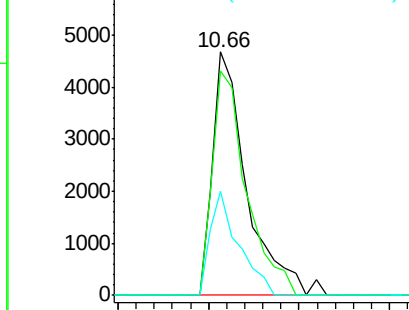
#41
 2,4,6-Tribromophenol
 Concen: 2.045 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. 0.01 min
 Lab File: BF101421.D
 Acq: 15 Dec 2017 3:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	90.7	77.0	115.6
141	35.2	29.9	44.9

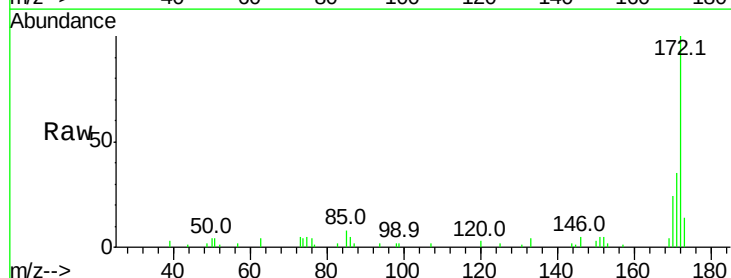


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

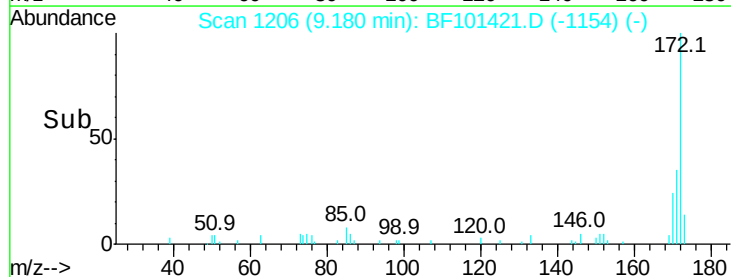
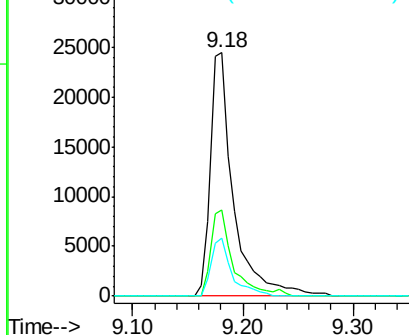


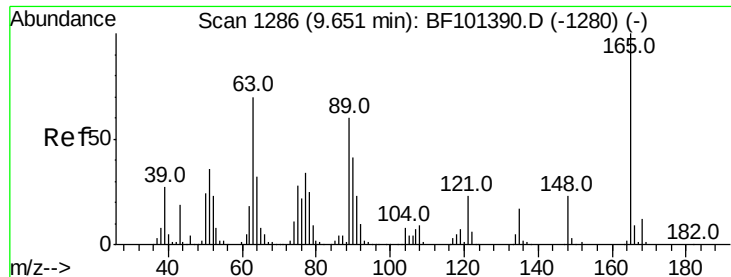
#44
 2-Fluorobiphenyl
 Concen: 1.738 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: BF101421.D
 Acq: 15 Dec 2017 3:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	24.0	19.6	29.4



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

2,6-Dinitrotoluene

Concen: 7.679 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.20 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Instrument :

BNA_F

ClientSampleId :

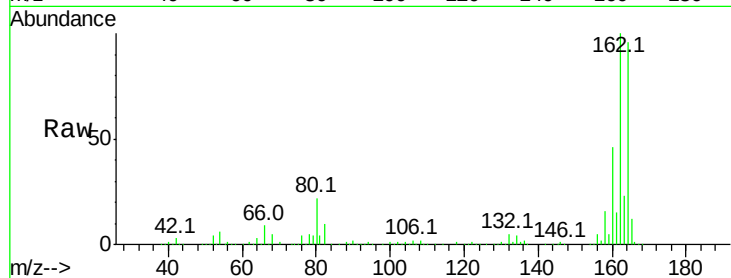
Tot Ion:165 Resp: 39352

Ion Ratio Lower Upper

165 100

63 1.5 44.7 67.1#

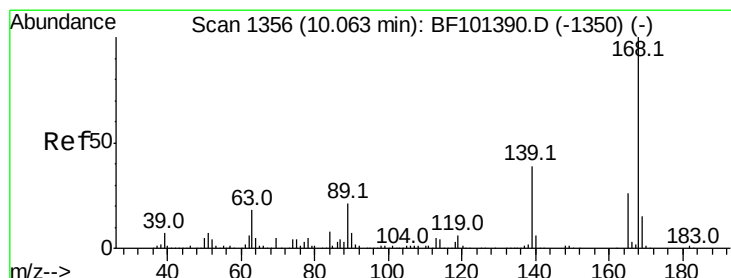
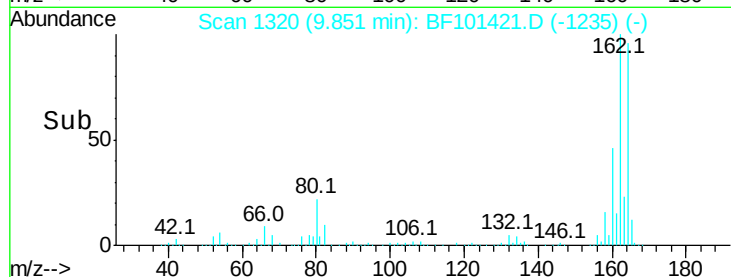
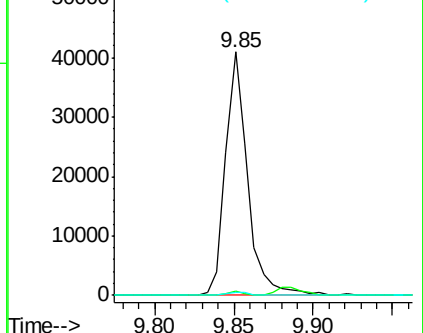
89 1.0 44.0 66.0#



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



#56

2,4-Dinitrotoluene

Concen: 6.815 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.21 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Tgt Ion:165 Resp: 39352

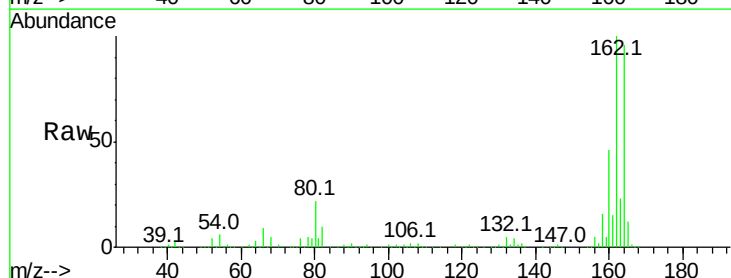
Ion Ratio Lower Upper

165 100

63 1.5 36.4 54.6#

89 1.0 57.8 86.6#

182 0.0 1.6 2.4#

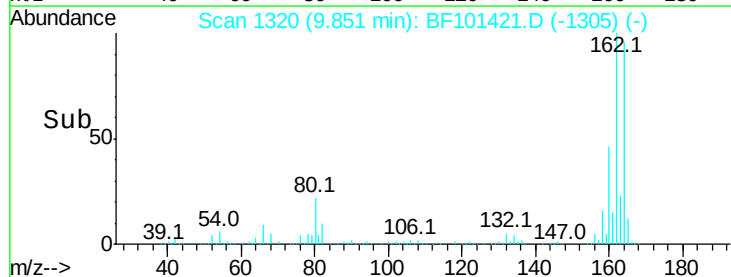
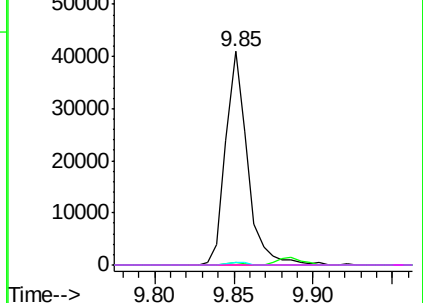


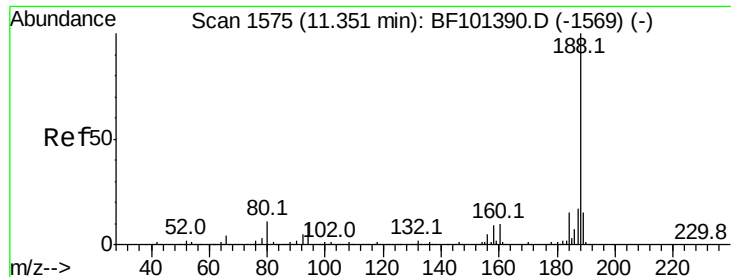
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

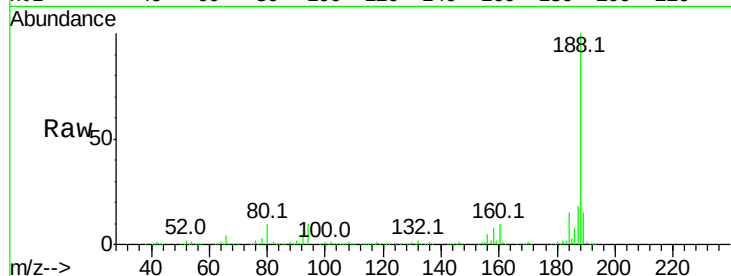




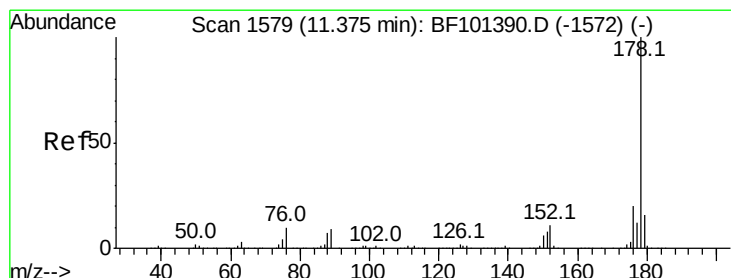
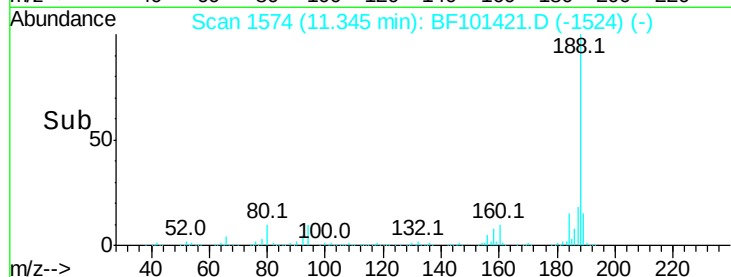
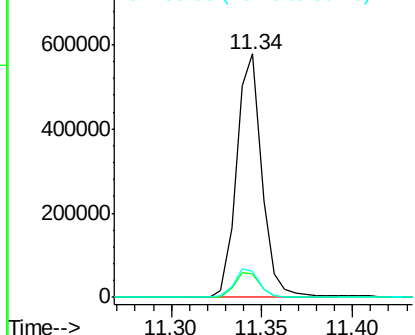
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 564347
Ion Ratio Lower Upper
188 100
94 9.8 8.5 12.7
80 10.5 9.2 13.8

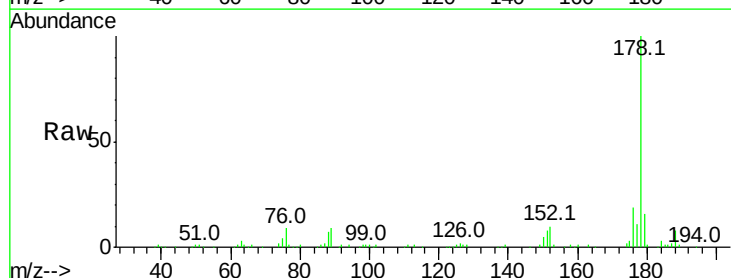


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

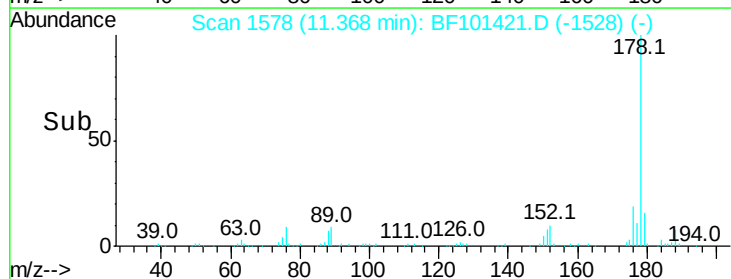
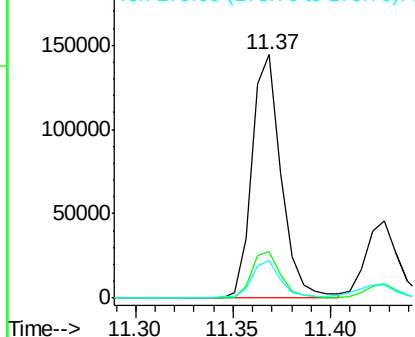


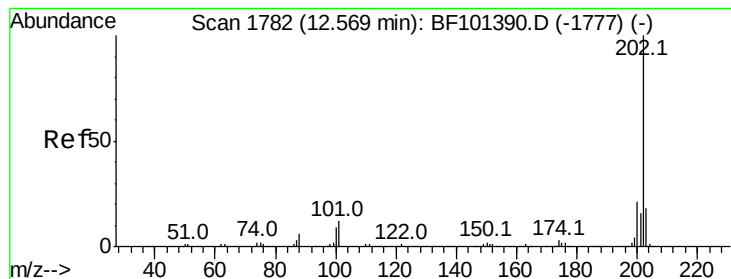
#70
Phenanthrene
Concen: 4.789 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Tgt Ion:178 Resp: 150305
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.6 13.0 19.6



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





#74

Fluoranthene

Concen: 7.908 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Instrument :

BNA_F

ClientSampleId :

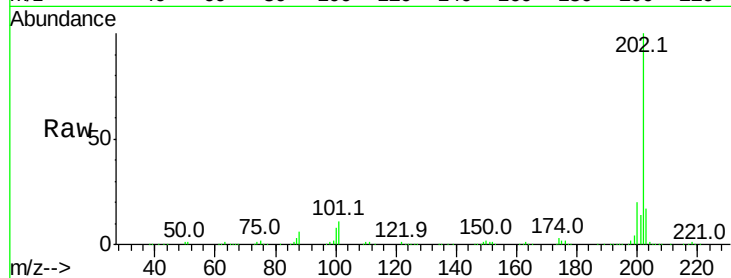
Tot Ion:202 Resp: 260494

Ion Ratio Lower Upper

202 100

101 11.3 0.0 34.1

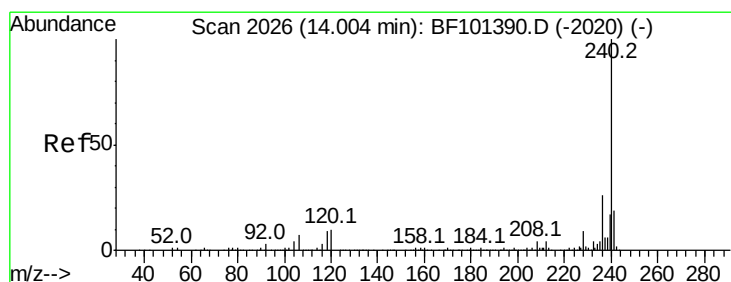
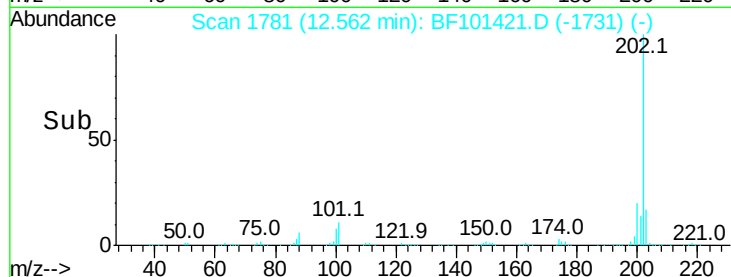
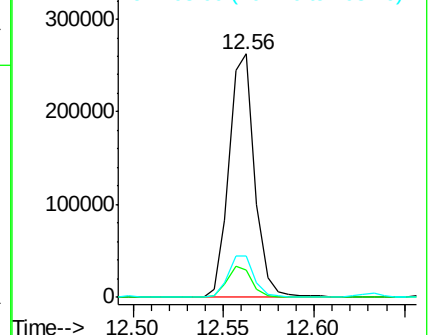
203 17.3 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

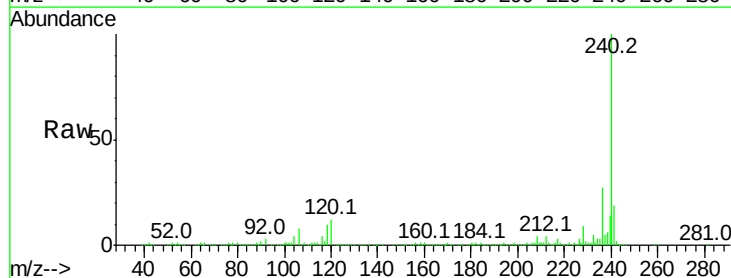
Tgt Ion:240 Resp: 378329

Ion Ratio Lower Upper

240 100

120 12.0 9.5 14.3

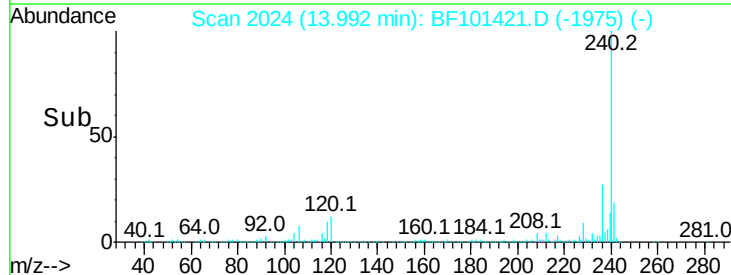
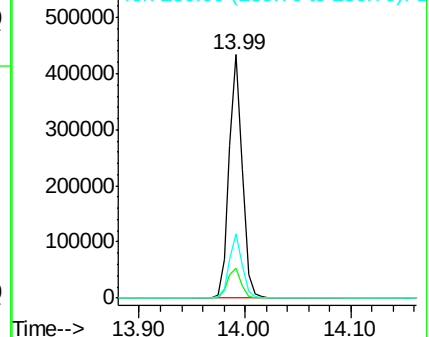
236 26.5 20.7 31.1

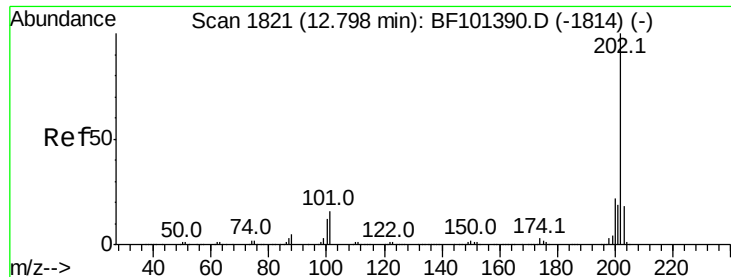


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

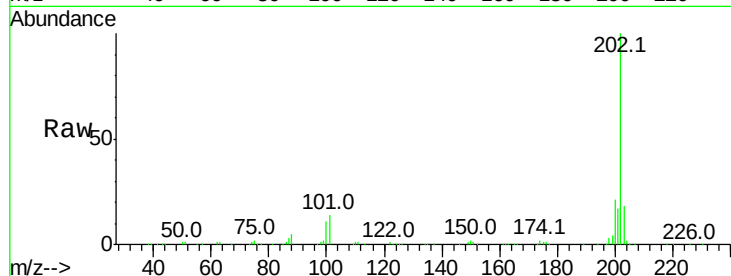




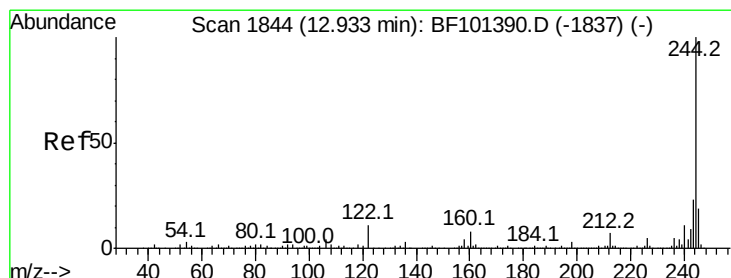
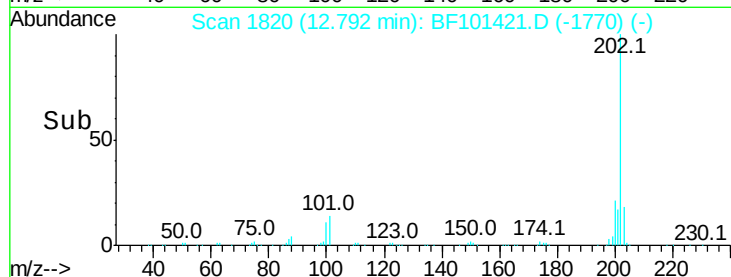
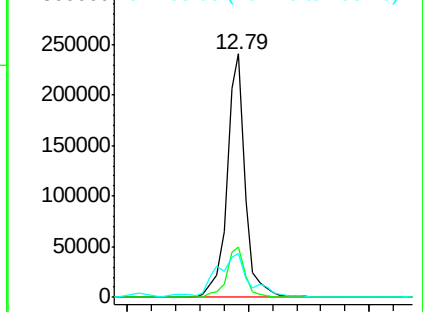
#77
Pvrene
Concen: 8.667 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.01 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 246095
Ion Ratio Lower Upper
202 100
200 20.7 17.4 26.2
203 18.0 14.3 21.5

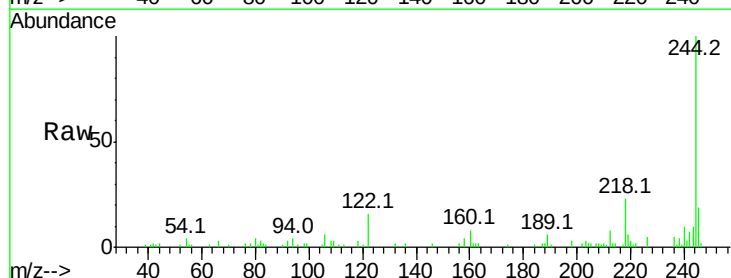


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

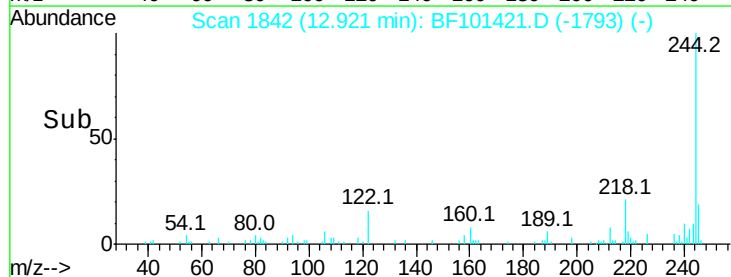
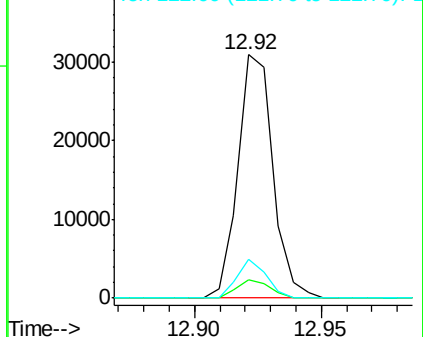


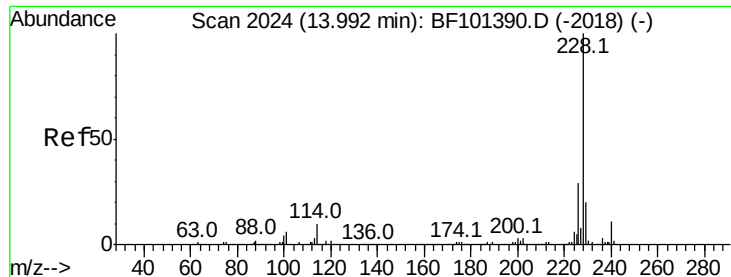
#78
Terphenyl-d14
Concen: 1.884 ng
RT: 12.92 min Scan# 1842
Delta R.T. -0.01 min
Lab File: BF101421.D
Acq: 15 Dec 2017 3:50

Tgt Ion:244 Resp: 29562
Ion Ratio Lower Upper
244 100
212 7.5 5.4 8.0
122 16.0 11.0 16.4



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





#80

Benzo(a)anthracene

Concen: 7.414 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Instrument :

BNA_F

ClientSampleId :

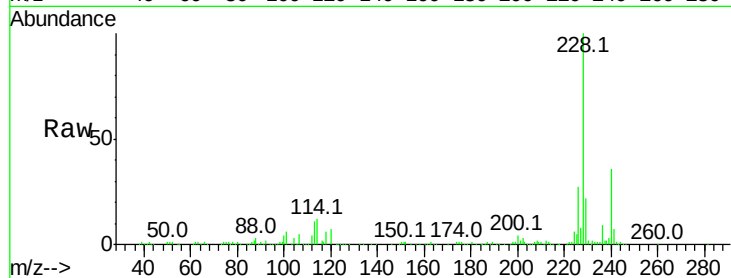
Tot Ion:228 Resp: 185208

Ion Ratio Lower Upper

228 100

226 27.0 22.6 33.8

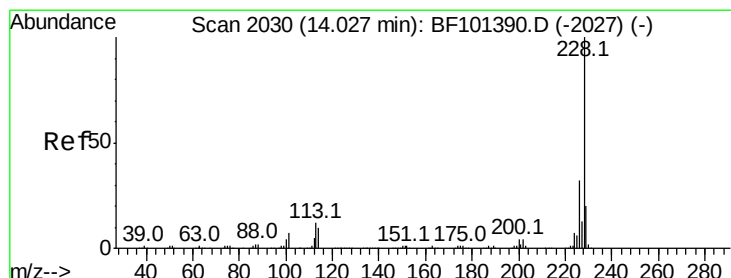
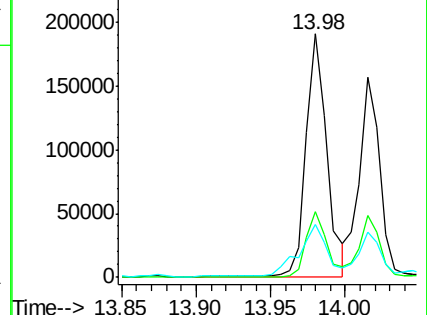
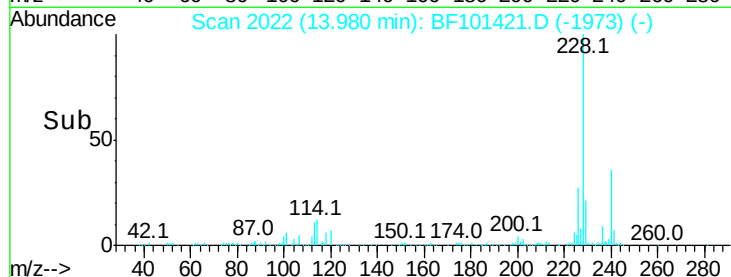
229 21.6 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 6.375 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

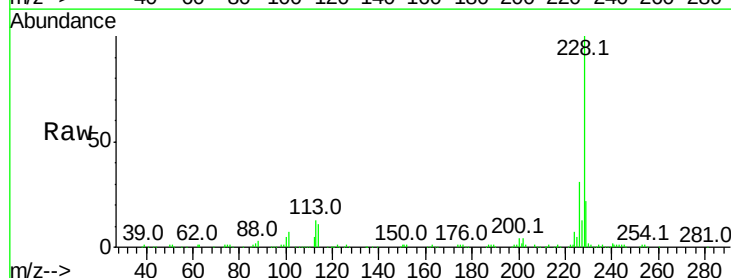
Tgt Ion:228 Resp: 150359

Ion Ratio Lower Upper

228 100

226 31.1 25.0 37.6

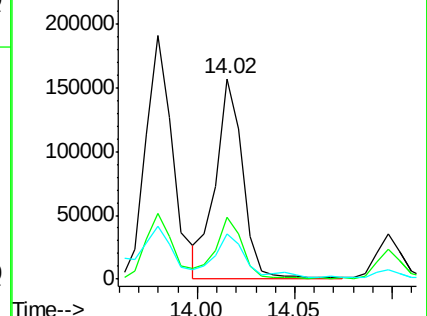
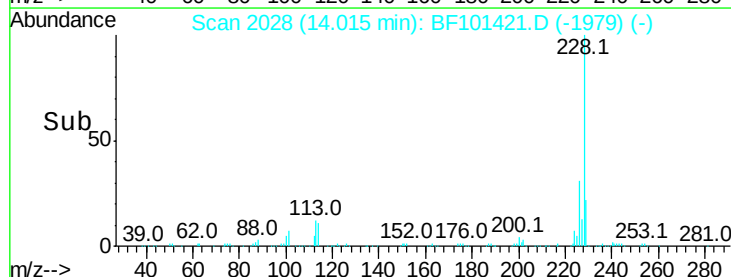
229 22.4 16.2 24.4

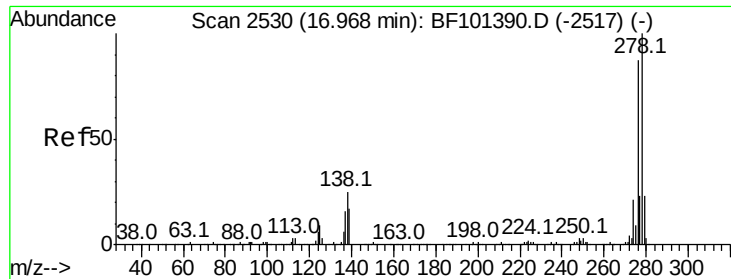


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

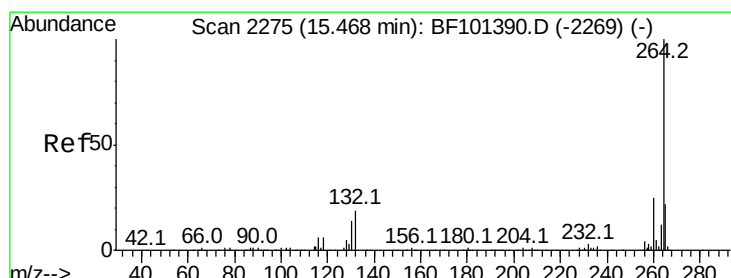
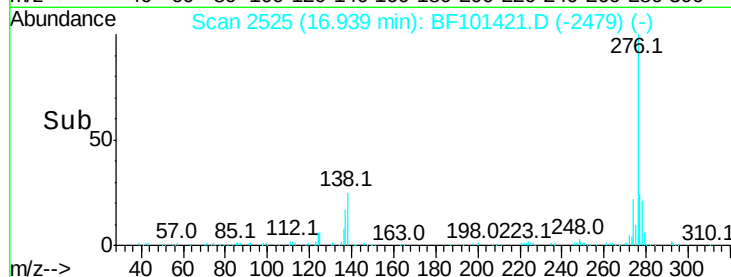
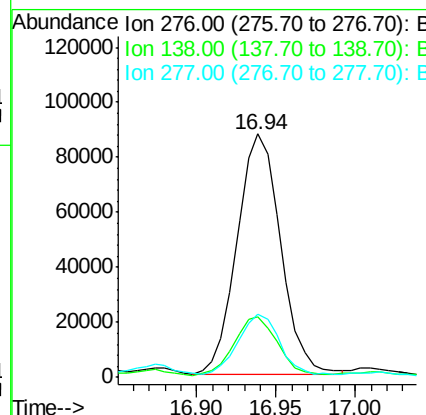
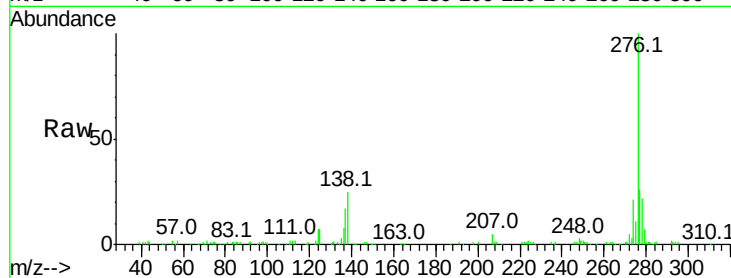




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.943 ng
 RT: 16.94 min Scan# 2525
 Delta R.T. -0.03 min
 Lab File: BF101421.D
 Acq: 15 Dec 2017 3:50

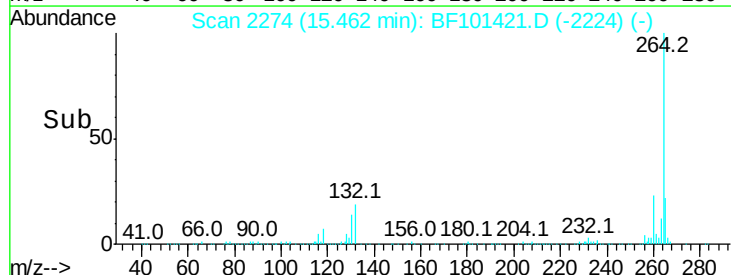
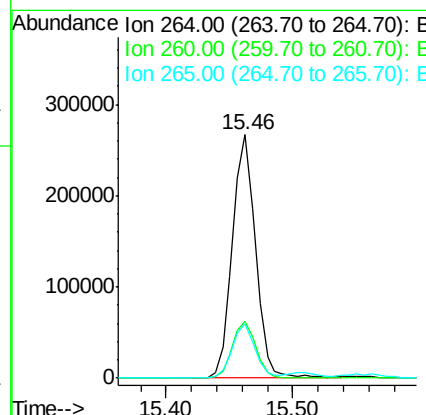
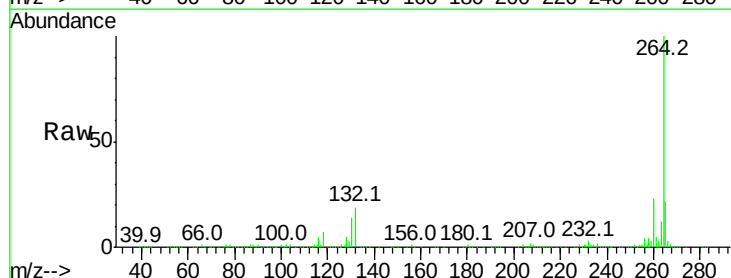
Instrument :
 BNA_F
 ClientSampleId :

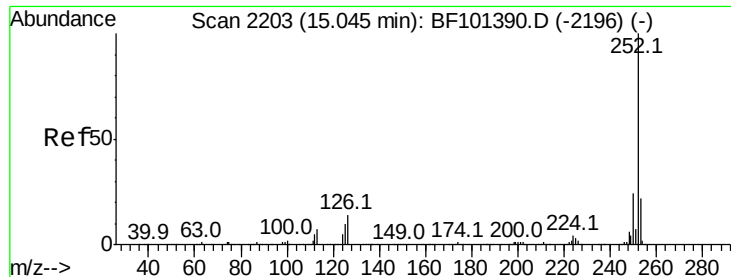
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.0	25.0	37.6#
277	24.2	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. -0.01 min
 Lab File: BF101421.D
 Acq: 15 Dec 2017 3:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 16.900 ng

RT: 15.03 min Scan# 2201

Delta R.T. -0.01 min

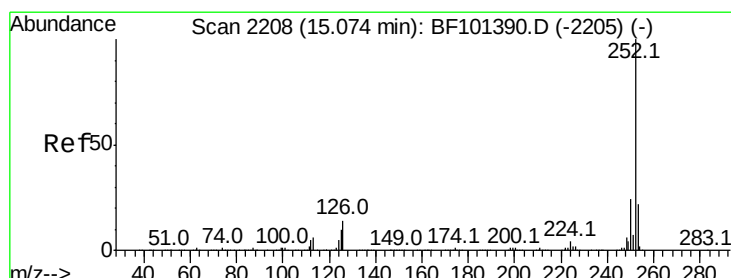
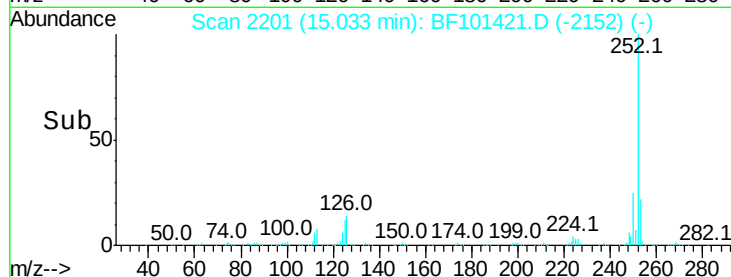
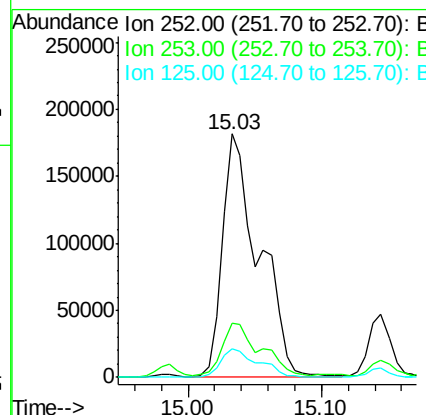
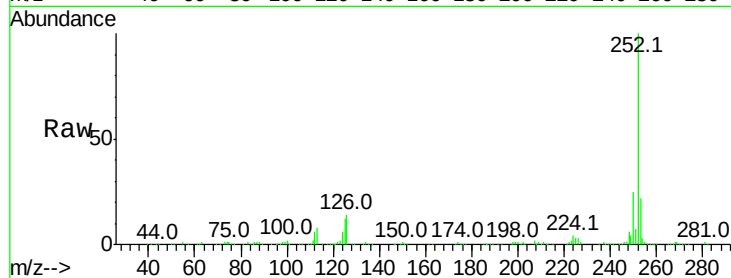
Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 344502

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	11.6	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 17.381 ng

RT: 15.03 min Scan# 2201

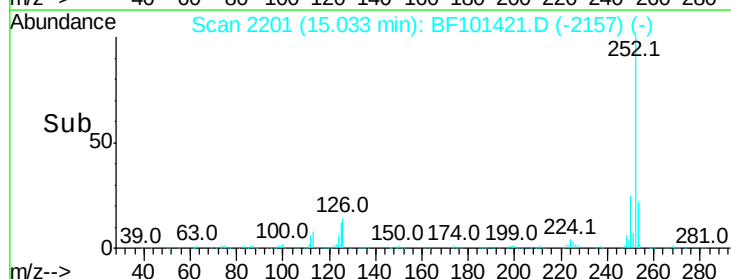
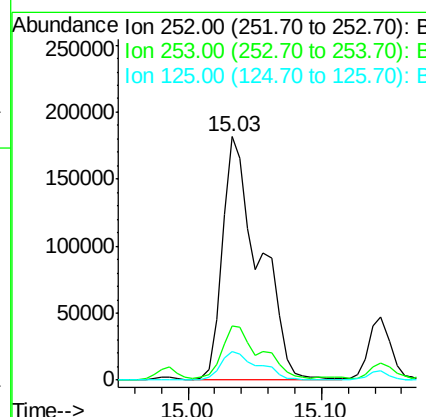
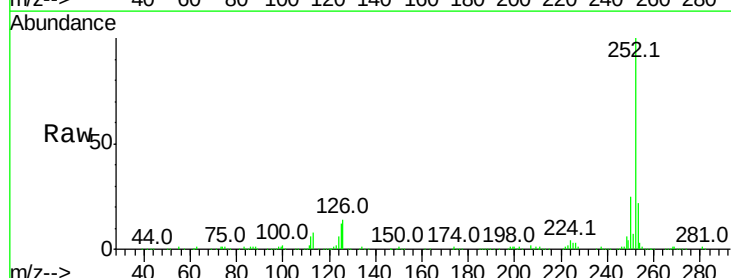
Delta R.T. -0.04 min

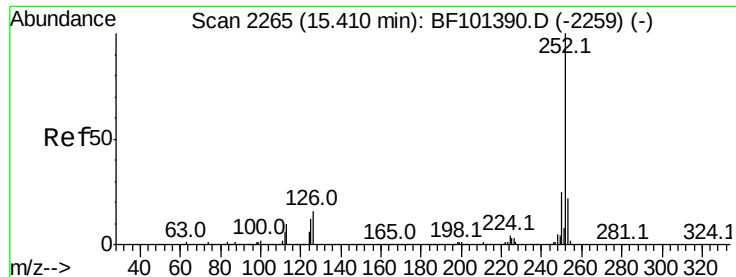
Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Tgt Ion:252 Resp: 344502

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	11.6	10.2	15.2





#89

Benzo(a)pyrene

Concen: 12.264 ng

RT: 15.40 min Scan# 2263

Delta R.T. -0.01 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

Instrument :

BNA_F

ClientSampled :

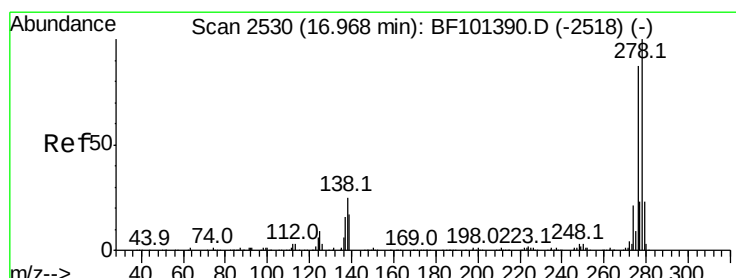
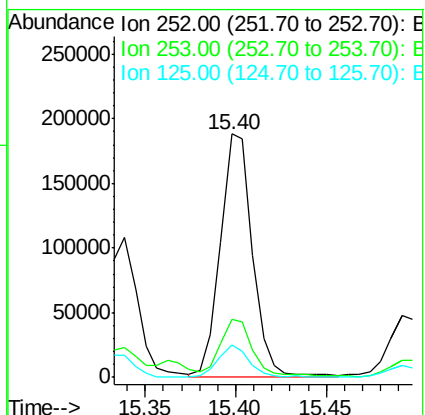
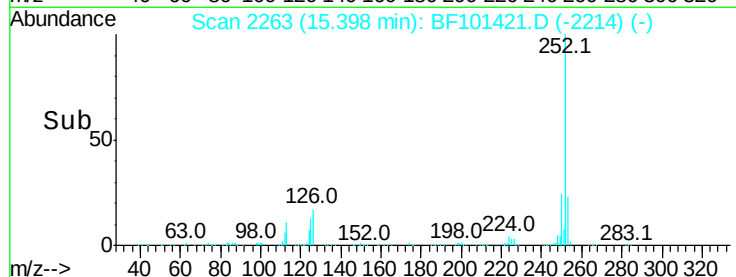
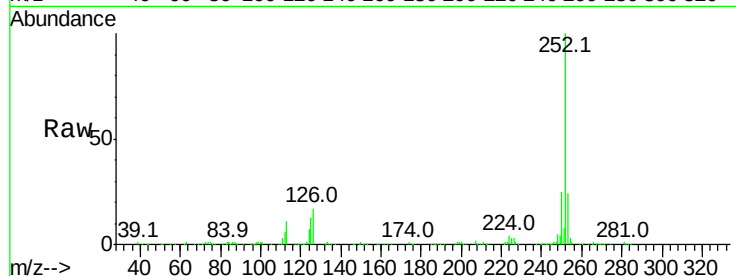
Tot Ion:252 Resp: 230470

Ion Ratio Lower Upper

252 100

253 24.0 17.1 25.7

125 13.1 9.8 14.6



#90

Dibenzo(a,h)anthracene

Concen: 2.842 ng

RT: 17.11 min Scan# 2554

Delta R.T. 0.14 min

Lab File: BF101421.D

Acq: 15 Dec 2017 3:50

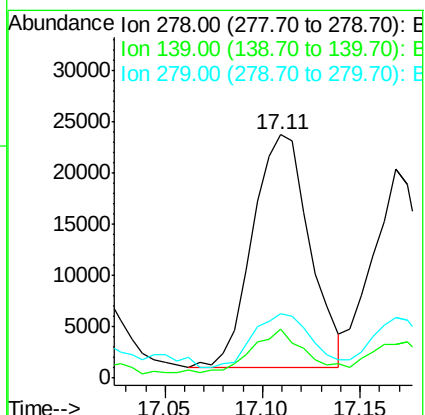
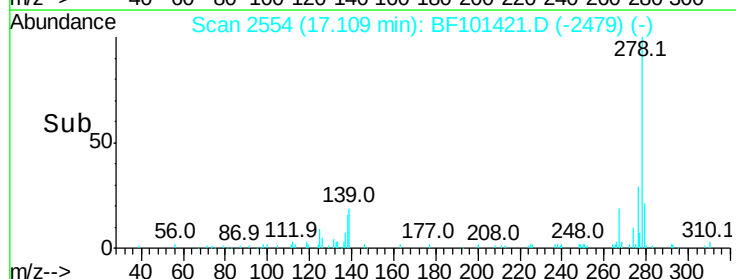
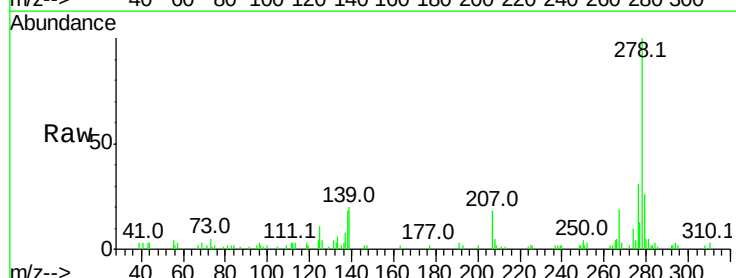
Tgt Ion:278 Resp: 45863

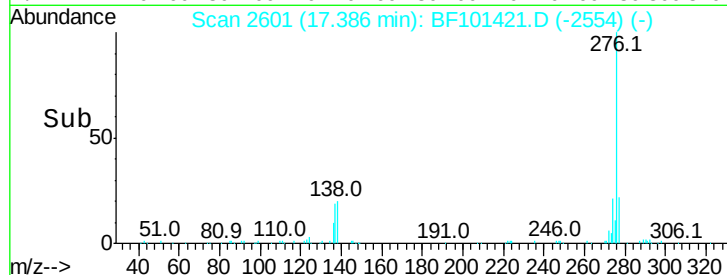
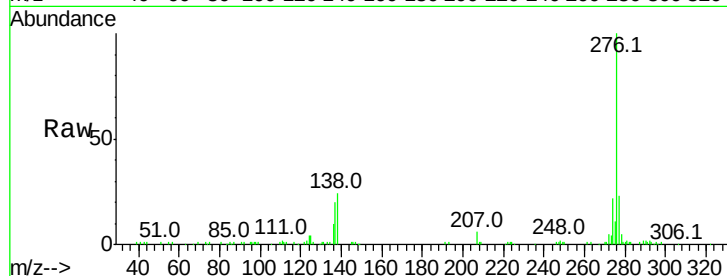
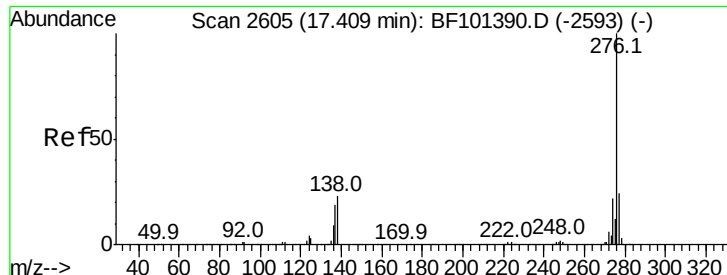
Ion Ratio Lower Upper

278 100

139 20.3 15.9 23.9

279 26.4 19.0 28.4





#91
 Benzo(a,h,i)perylene
 Concen: 9.606 ng
 RT: 17.39 min Scan# 2601
 Delta R.T. -0.02 min
 Lab File: BF101421.D
 Acq: 15 Dec 2017 3:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276	Resp:	153467
Ion Ratio	Lower	Upper
276	100	
277	23.4	17.9 26.9
138	24.0	21.8 32.8

