

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
 Data File : BF112690.D
 Acq On : 25 Feb 2019 14:14
 Operator : JU/SJ
 Sample : K1595-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-E-WALL-GRADE-BEAM

Quant Time: Feb 25 15:32:28 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 25 14:05:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	49634	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	188485	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	87159	20.00	ng	0.00
64) Phenanthrene-d10	11.34	188	136698	20.00	ng	0.00
76) Chrysene-d12	13.98	240	116016	20.00	ng	0.00
87) Perylene-d12	15.46	264	105230	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	264023	112.99	ng	0.00
7) Phenol-d6	6.48	99	338233	104.17	ng	-0.01
23) Nitrobenzene-d5	7.38	82	211601	64.69	ng	-0.01
42) 2,4,6-Tribromophenol	10.65	330	79975	78.83	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	400620	65.01	ng	0.00
79) Terphenyl-d14	12.91	244	281512	45.70	ng	-0.01
Target Compounds						
10) Phenol	6.50	94	10106	2.837	ng	# 57
19) n-Nitroso-di-n-propylamine	7.38	70	29780	13.301	ng	# 77
25) Isophorone	7.38	82	211599	41.233	ng	# 63
50) Dimethylphthalate	9.56	163	30312	4.476	ng	99
51) 2,6-Dinitrotoluene	9.85	165	11455	7.553	ng	# 35
56) 4-Nitrophenol	10.06	139	2895	3.333	ng	# 12
67) 4-Bromophenyl-phenylether	10.65	248	4937	3.071	ng	# 1
71) Phenanthrene	11.36	178	131294	18.475	ng	97
72) Anthracene	11.36	178	131294	18.546	ng	98
75) Fluoranthene	12.56	202	144534	18.962	ng	94
78) Pyrene	12.79	202	127705	15.899	ng	96
80) Butylbenzylphthalate	13.37	149	23758	6.113	ng	89
81) Benzo(a)anthracene	13.97	228	65499	9.604	ng	96
83) Chrysene	14.01	228	61267	9.411	ng	96
86) Indeno(1,2,3-cd)pyrene	16.96	276	32313	6.264	ng	# 90
88) Benzo(b)fluoranthene	15.03	252	105475	16.760	ng	97
89) Benzo(k)fluoranthene	15.03	252	105475	17.497	ng	98
90) Benzo(a)pyrene	15.40	252	54605	9.643	ng	96
91) Dibenzo(a,h)anthracene	16.95	278	9719	2.130	ng	# 89
92) Benzo(a,h,i)perylene	17.42	276	29664	6.890	ng	# 86

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

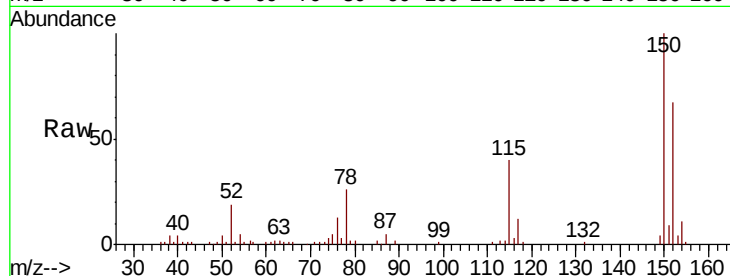


#1

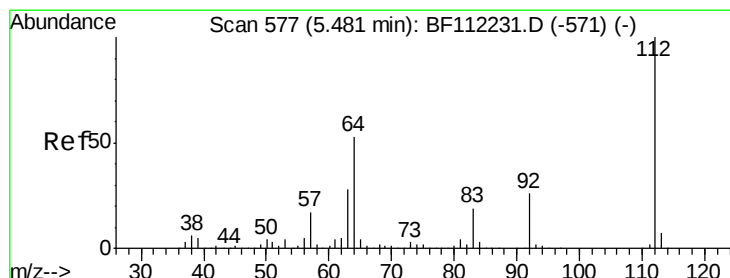
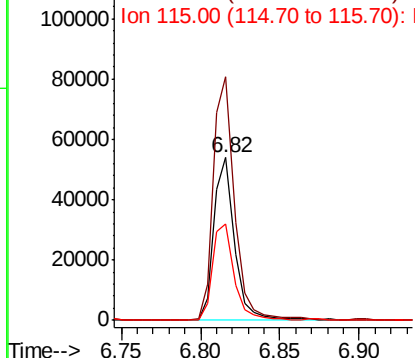
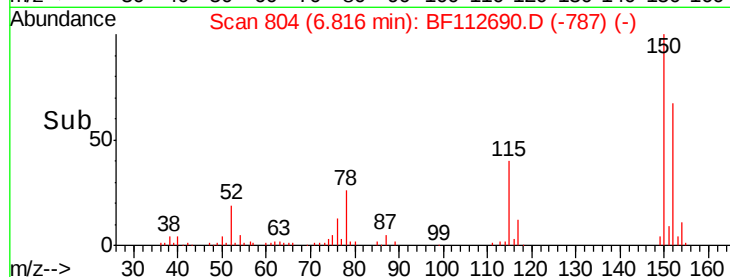
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

Tot Ion:152 Resp: 49634
Ion Ratio Lower Upper
152 100
150 149.8 127.4 191.0
115 59.3 45.5 68.3



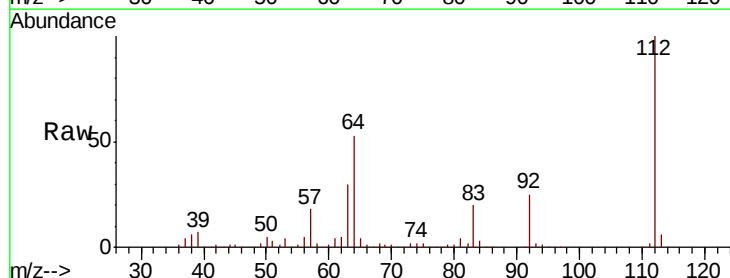
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



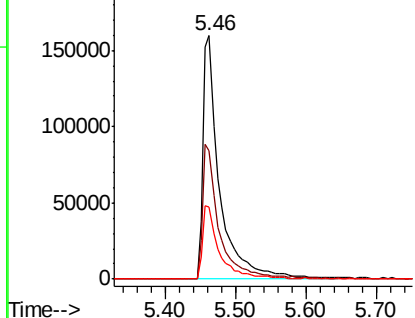
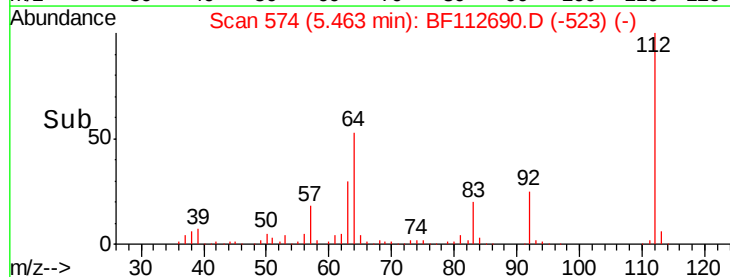
#5

2-Fluorophenol
Concen: 112.988 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.00 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion:112 Resp: 264023
Ion Ratio Lower Upper
112 100
64 52.9 45.7 68.5
63 29.5 23.6 35.4



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: 104.167 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

Instrument :

BNA_F

ClientSampleId :

TP-E-WALL-GRADE-BEAM

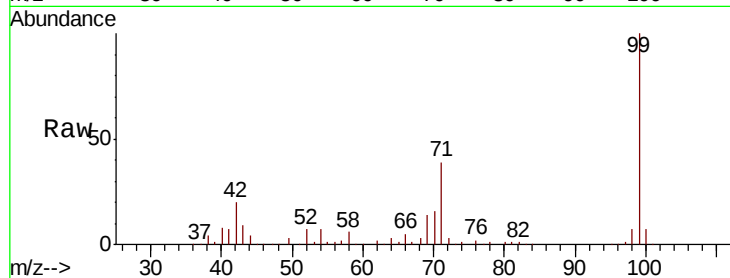
Tot Ion: 99 Resp: 338233

Ion Ratio Lower Upper

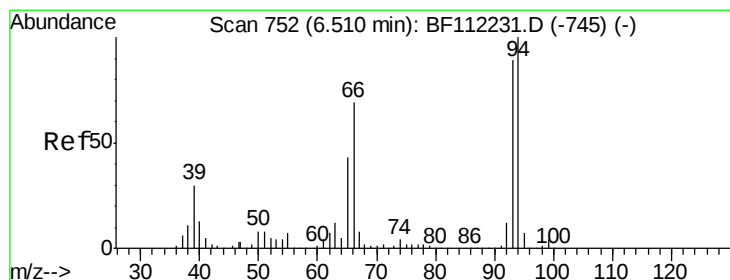
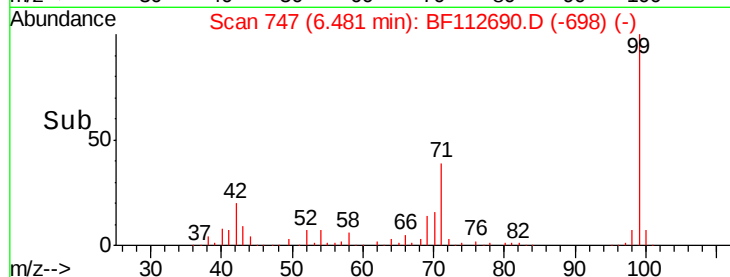
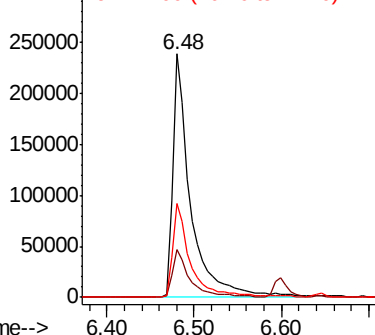
99 100

42 19.7 15.1 22.7

71 38.7 26.9 40.3



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



#10

Phenol

Concen: 2.837 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

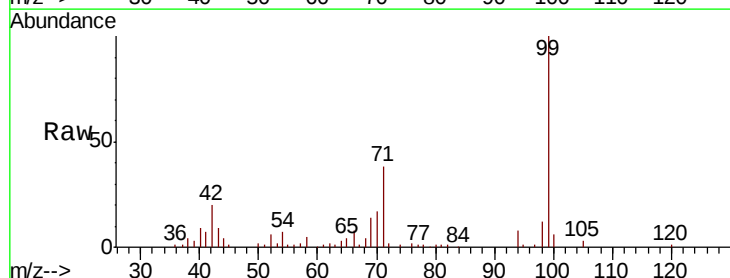
Tgt Ion: 94 Resp: 10106

Ion Ratio Lower Upper

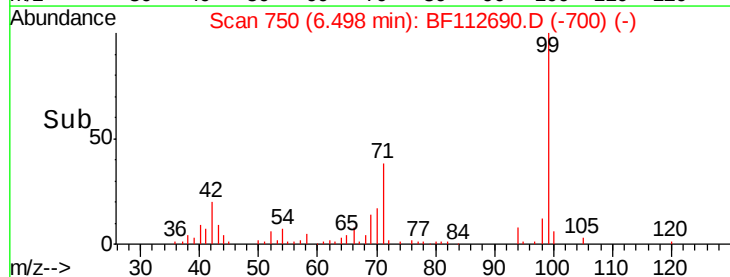
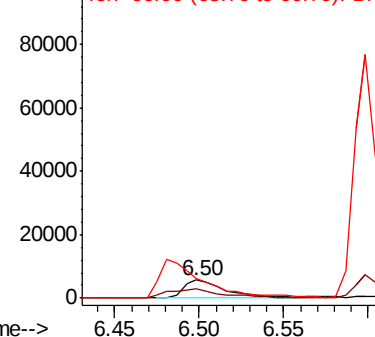
94 100

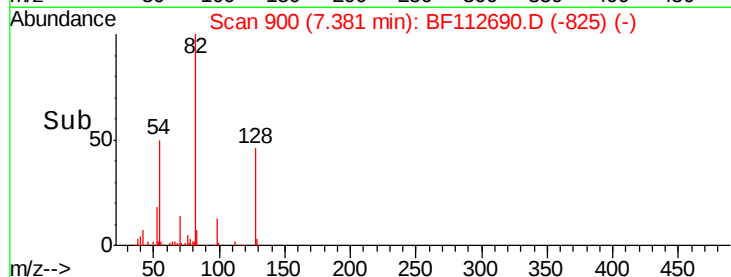
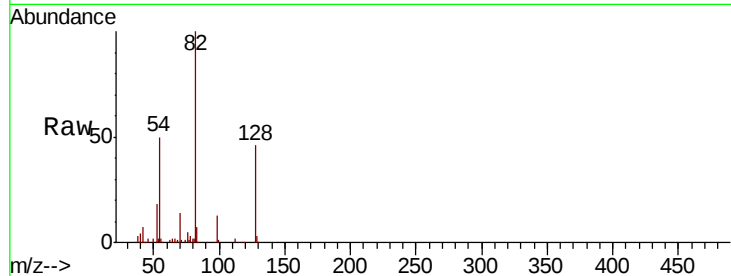
65 52.1 20.3 60.3

66 107.9 42.4 82.4#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

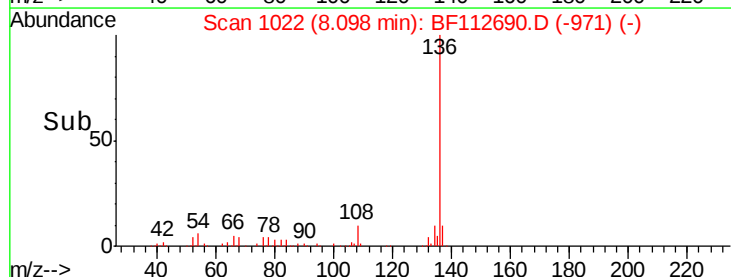
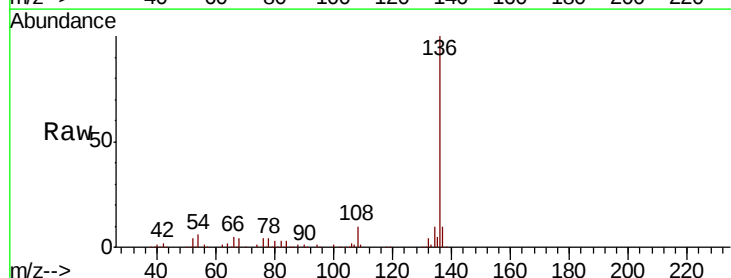
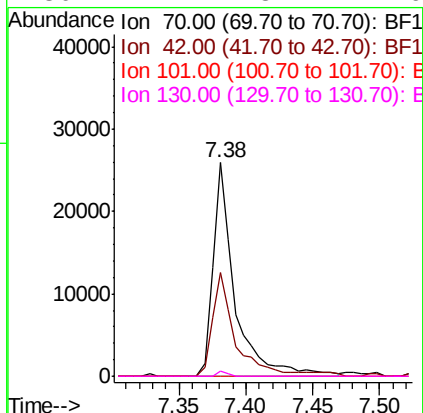




#19
n-Nitroso-di-n-propylamine
Concen: 13.301 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.14 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

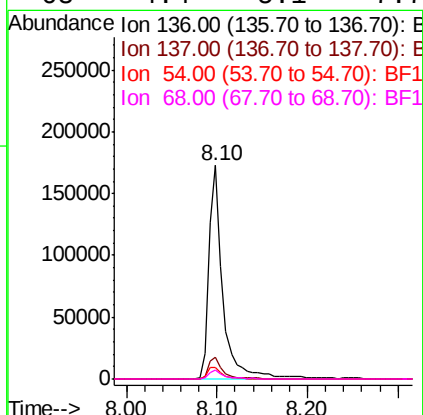
Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

Tot Ion: 70 Resp: 29780
Ion Ratio Lower Upper
70 100
42 48.3 47.6 71.4
101 0.0 7.9 11.9#
130 2.1 18.4 27.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion: 136 Resp: 188485
Ion Ratio Lower Upper
136 100
137 10.4 9.1 13.7
54 5.5 5.9 8.9#
68 4.4 5.1 7.7#

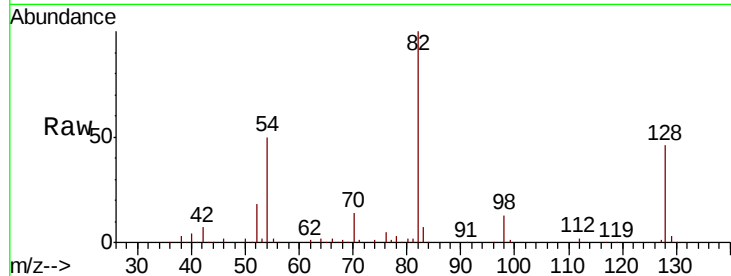




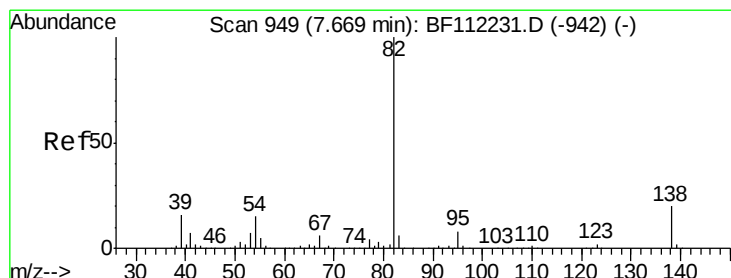
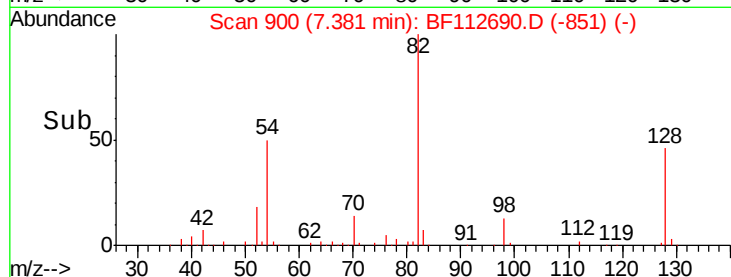
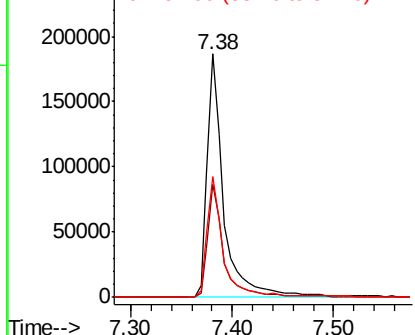
#23
 Nitrobenzene-d5
 Concen: 64.686 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

Instrument :
 BNA_F
 ClientSampleId :
 TP-E-WALL-GRADE-BEAM

Tot Ion: 82 Resp: 211601
 Ion Ratio Lower Upper
 82 100
 128 46.4 37.8 56.8
 54 49.8 39.7 59.5

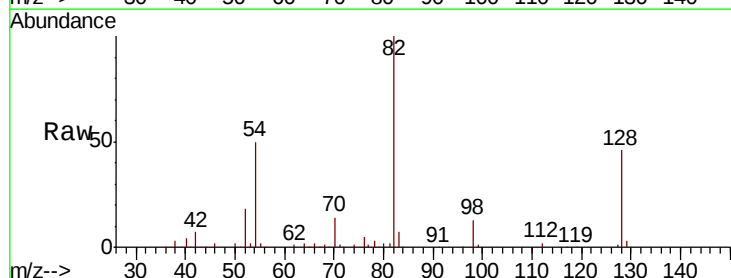


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

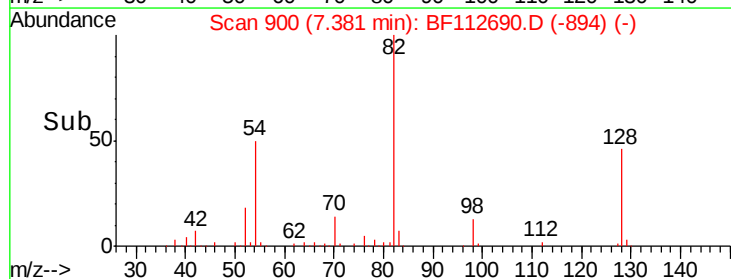
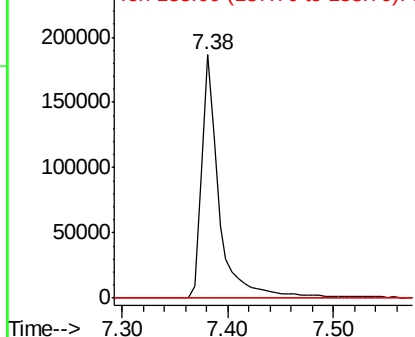


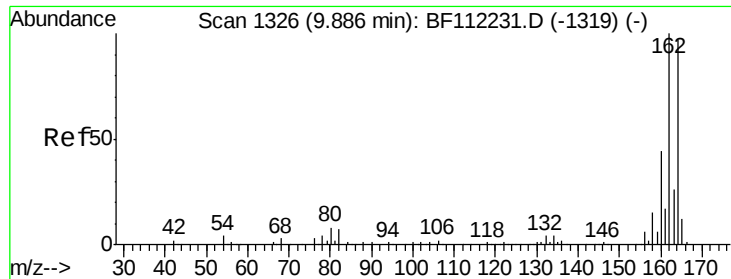
#25
 Isophorone
 Concen: 41.233 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.26 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

Tgt Ion: 82 Resp: 211599
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.7 8.5#
 138 0.0 15.4 23.0#



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

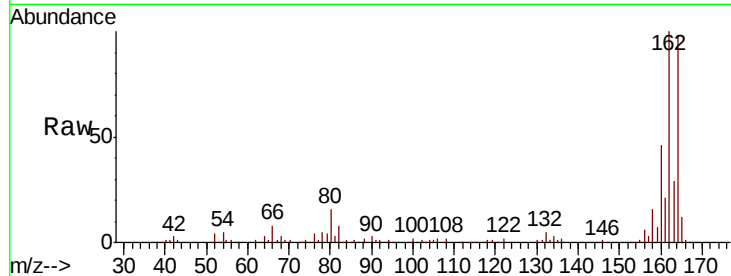




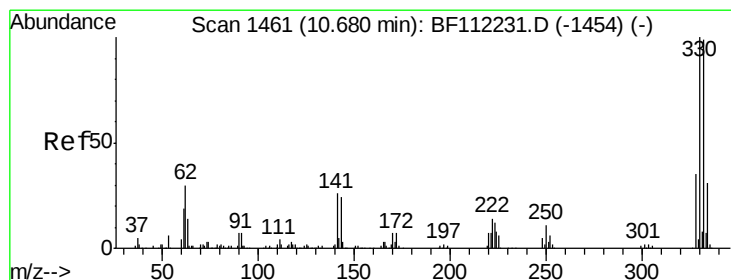
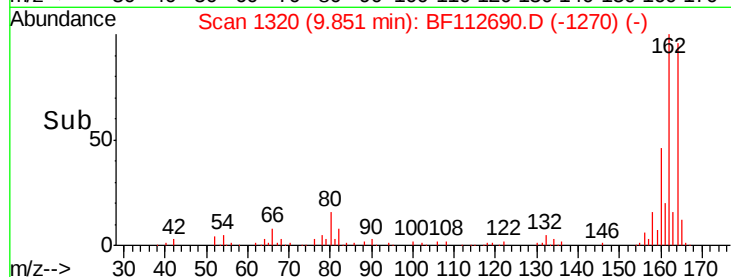
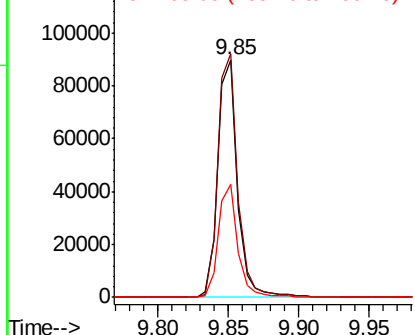
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

Tot Ion:164 Resp: 87159
Ion Ratio Lower Upper
164 100
162 102.5 82.2 123.4
160 47.5 36.2 54.4

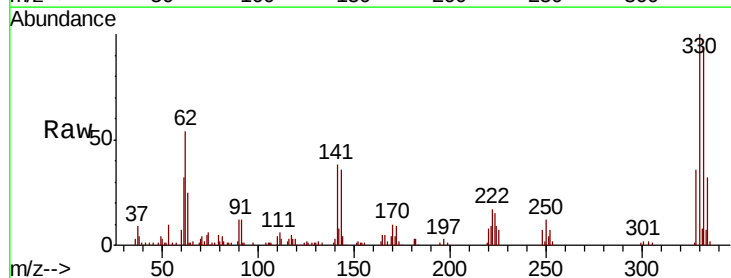


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

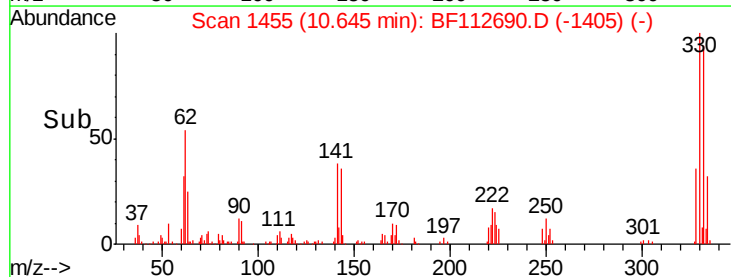
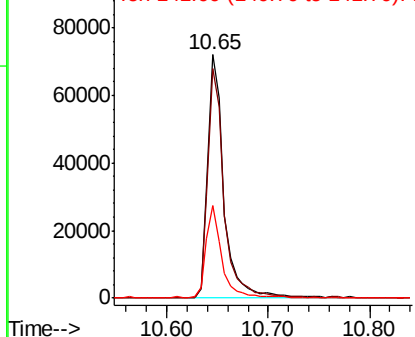


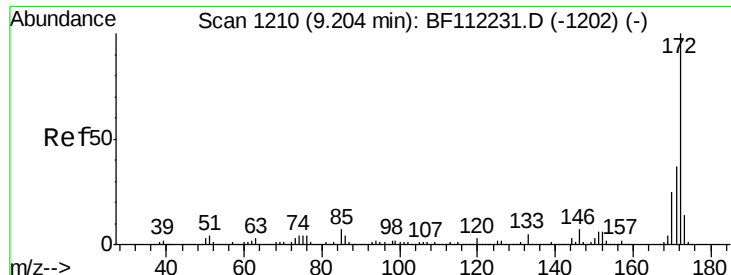
#42
2,4,6-Tribromophenol
Concen: 78.831 ng
RT: 10.65 min Scan# 1455
Delta R.T. -0.01 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion:330 Resp: 79975
Ion Ratio Lower Upper
330 100
332 95.1 76.6 114.8
141 37.1 24.3 36.5#



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

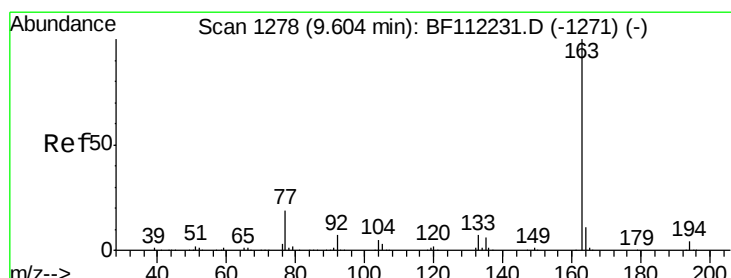
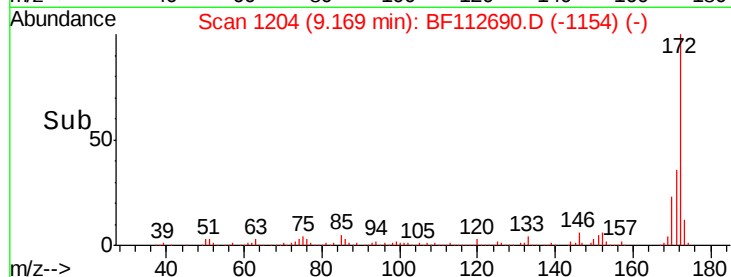
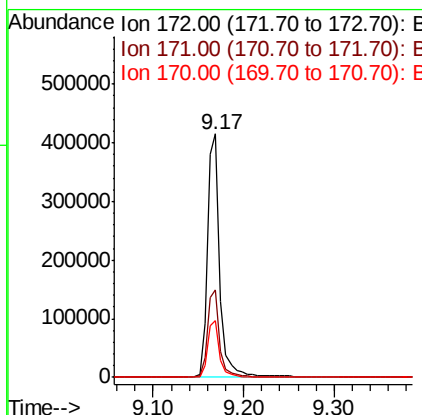
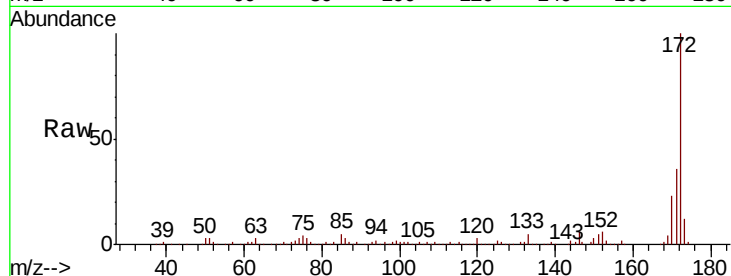




#45
 2-Fluorobiphenyl
 Concen: 65.009 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

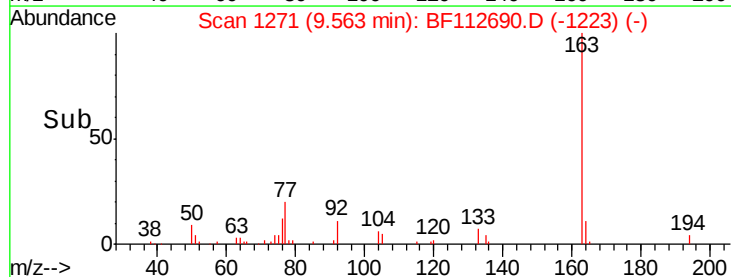
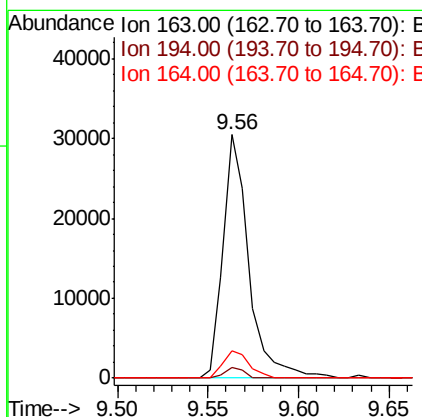
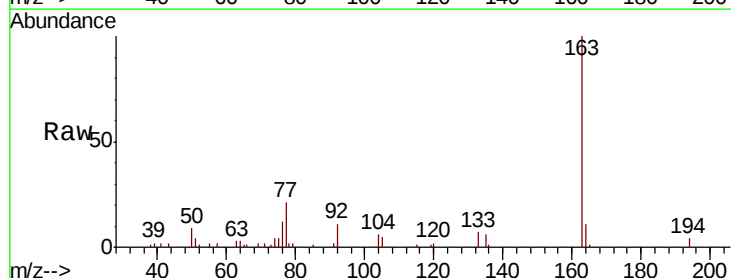
Instrument :
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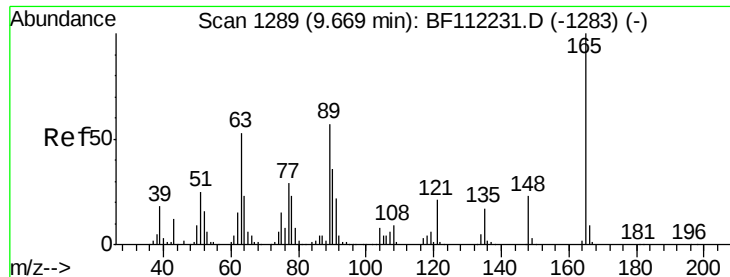
Tot Ion:172 Resp: 400620
 Ion Ratio Lower Upper
 172 100
 171 35.9 30.5 45.7
 170 23.3 20.2 30.4



#50
 Dimethylphthalate
 Concen: 4.476 ng
 RT: 9.56 min Scan# 1271
 Delta R.T. -0.02 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

Tgt Ion:163 Resp: 30312
 Ion Ratio Lower Upper
 163 100
 194 4.1 3.3 4.9
 164 11.2 8.5 12.7

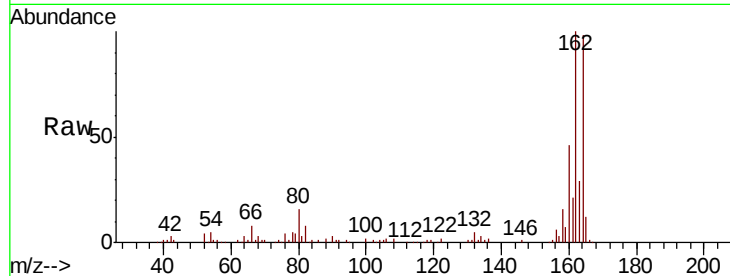




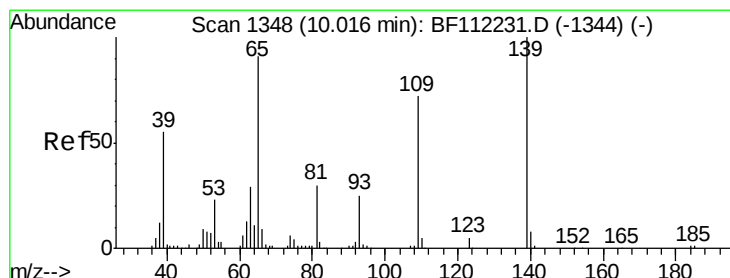
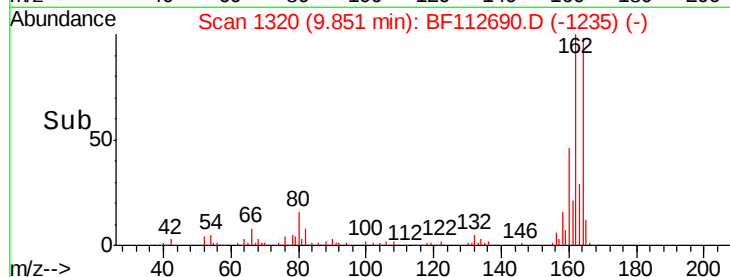
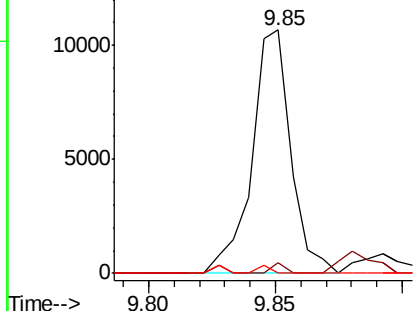
#51
 2,6-Dinitrotoluene
 Concen: 7.553 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.20 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

Instrument :
 BNA_F
 ClientSampleId :
 TP-E-WALL-GRADE-BEAM

Tot Ion	Ratio	Lower	Upper
165	100		
63	4.1	33.8	50.8#
89	0.0	36.9	55.3#

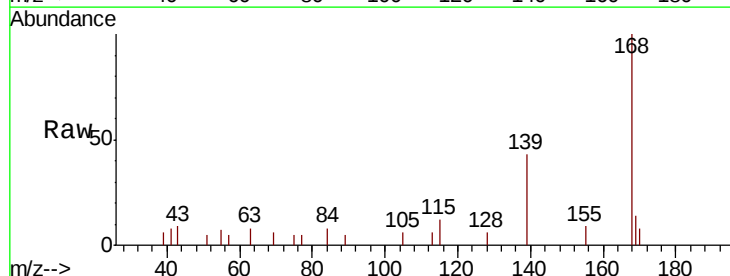


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

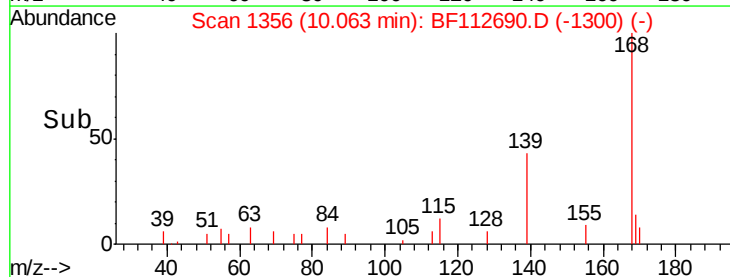
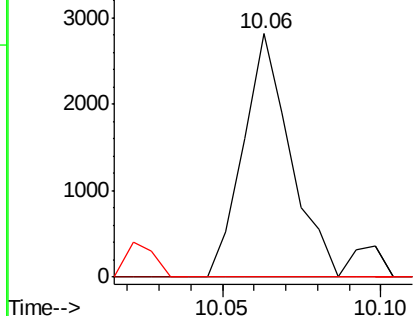


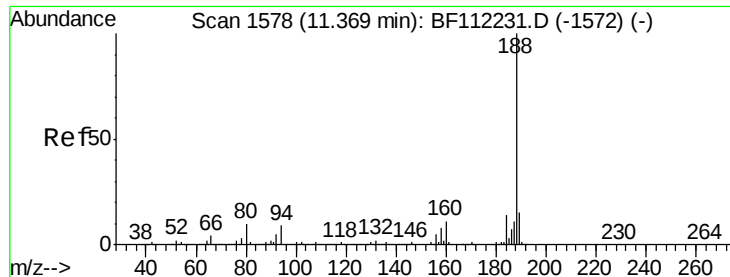
#56
 4-Nitrophenol
 Concen: 3.333 ng
 RT: 10.06 min Scan# 1356
 Delta R.T. 0.03 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	42.8	82.8#
65	0.0	66.1	106.1#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

Instrument :

BNA_F

ClientSampleId :

TP-E-WALL-GRADE-BEAM

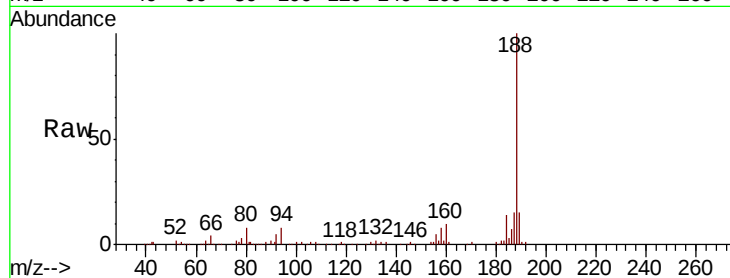
Tot Ion:188 Resp: 136698

Ion Ratio Lower Upper

188 100

94 8.2 8.2 12.2

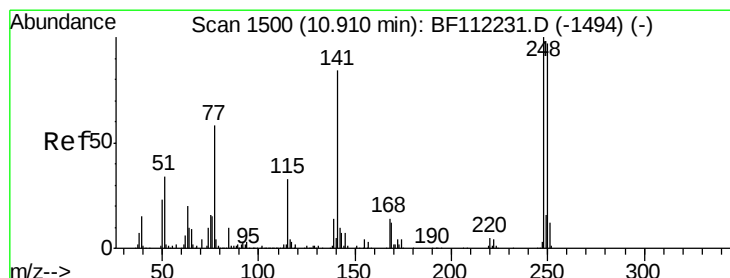
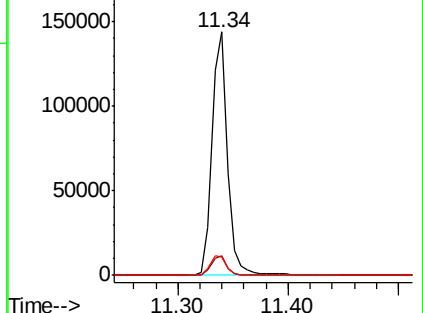
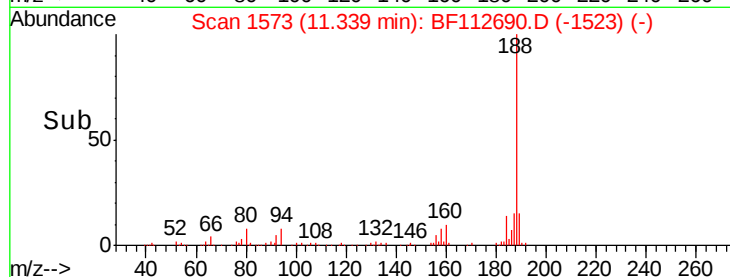
80 7.7 8.9 13.3#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#67

4-Bromophenyl-phenylether

Concen: 3.071 ng

RT: 10.65 min Scan# 1455

Delta R.T. -0.24 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

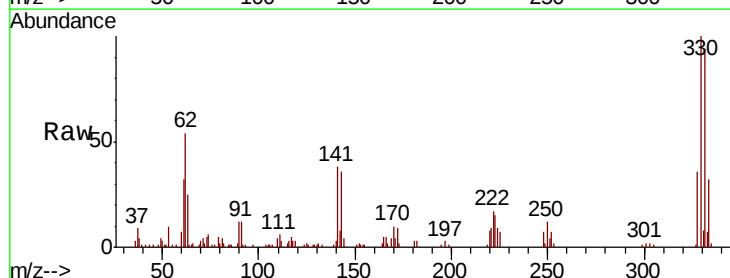
Tgt Ion:248 Resp: 4937

Ion Ratio Lower Upper

248 100

250 183.0 79.7 119.5#

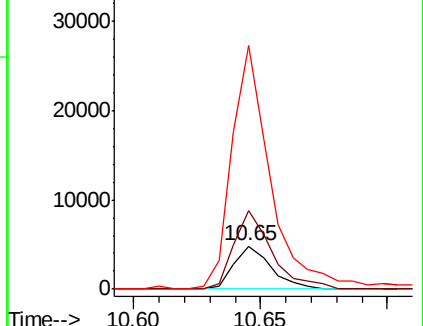
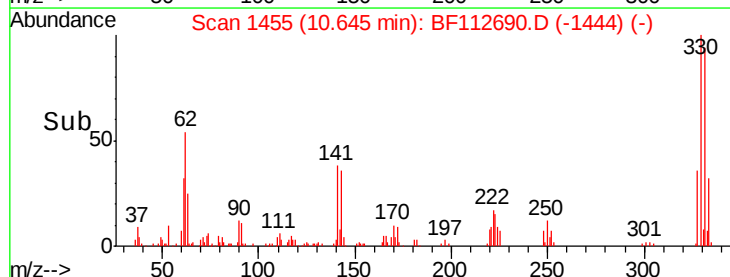
141 564.4 60.3 90.5#

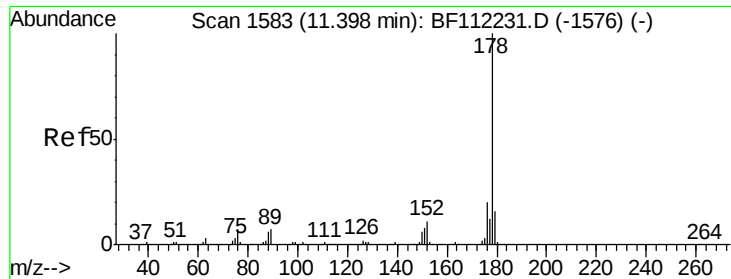


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

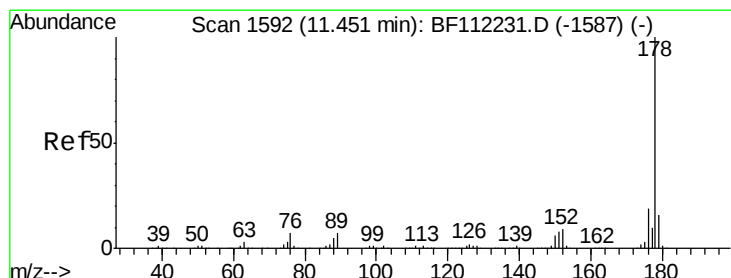
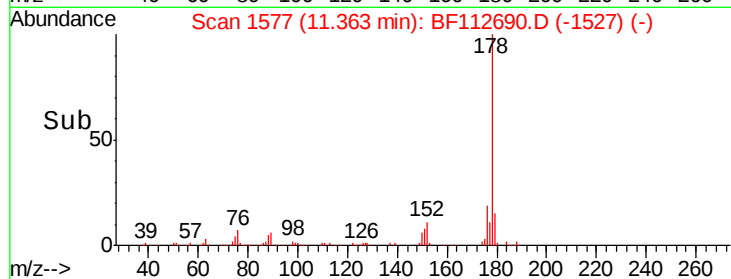
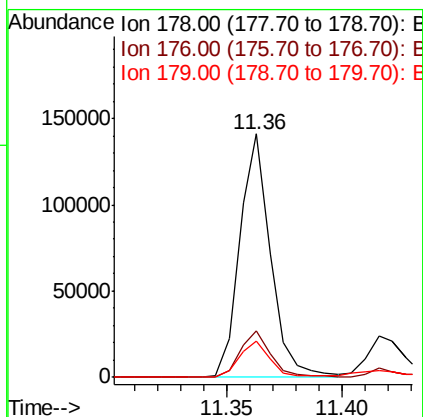
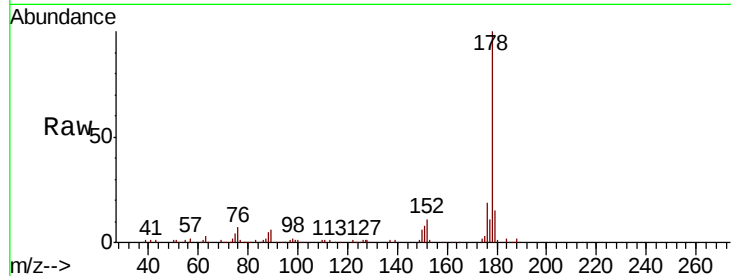




#71
Phenanthrene
Concen: 18.475 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

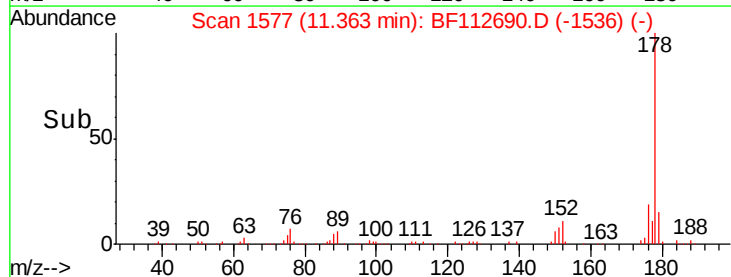
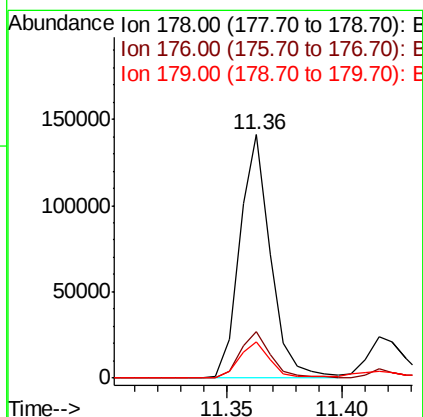
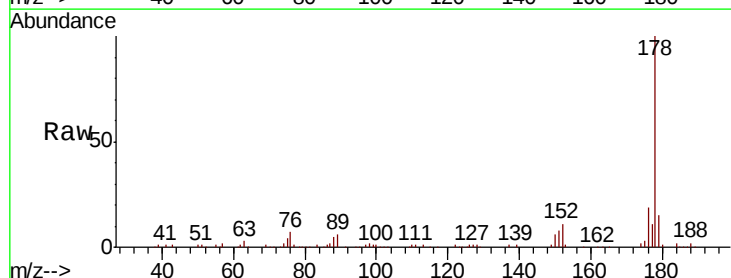
Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

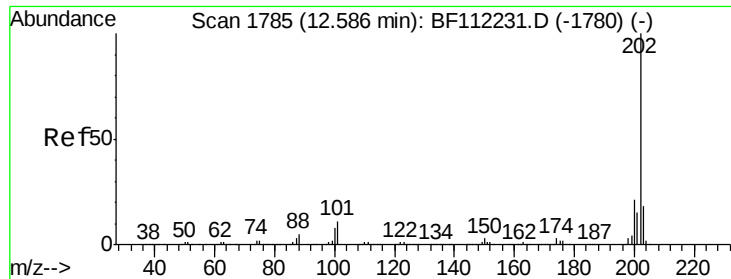
Tot Ion:178 Resp: 131294
Ion Ratio Lower Upper
178 100
176 19.1 16.3 24.5
179 15.0 13.0 19.4



#72
Anthracene
Concen: 18.546 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.06 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion:178 Resp: 131294
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.0 12.8 19.2





#75

Fluoranthene

Concen: 18.962 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.00 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

Instrument :

BNA_F

ClientSampleId :

TP-E-WALL-GRADE-BEAM

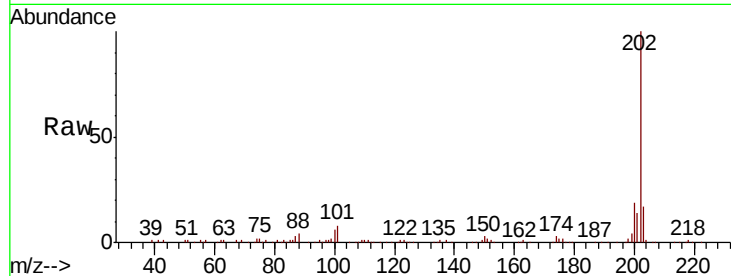
Tot Ion:202 Resp: 144534

Ion Ratio Lower Upper

202 100

101 8.3 0.0 31.8

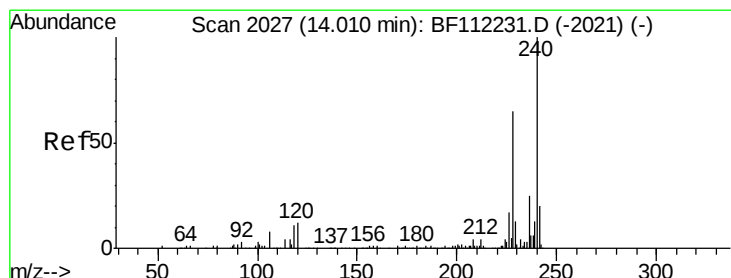
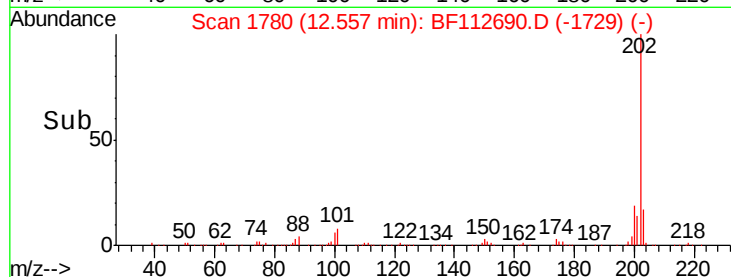
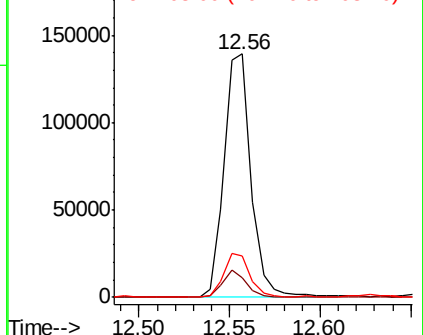
203 16.9 0.0 38.4



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: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

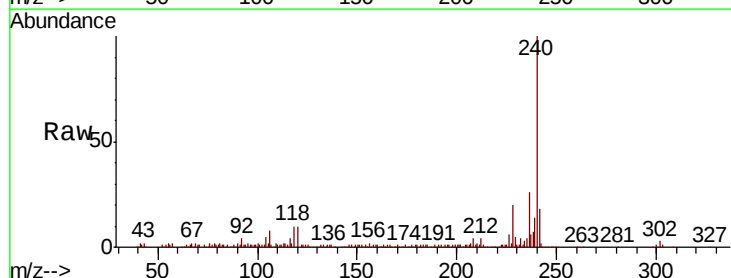
Tgt Ion:240 Resp: 116016

Ion Ratio Lower Upper

240 100

120 10.0 9.0 13.6

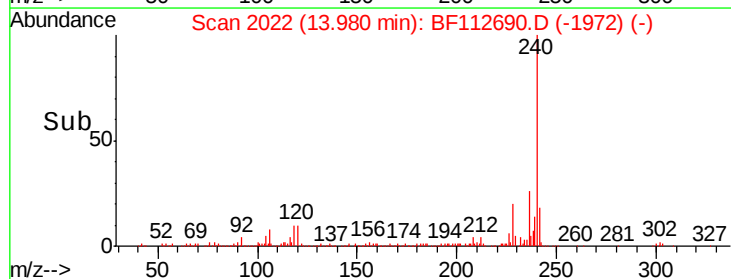
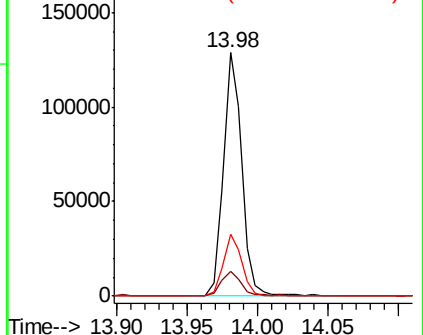
236 25.5 20.7 31.1

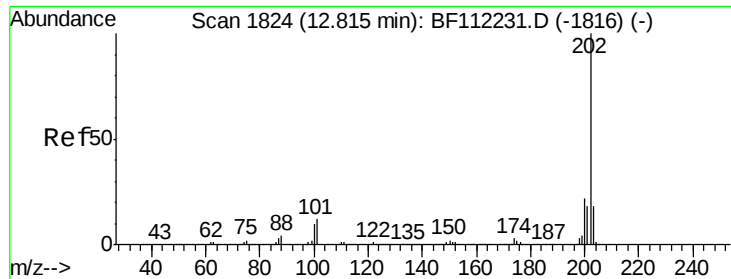


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

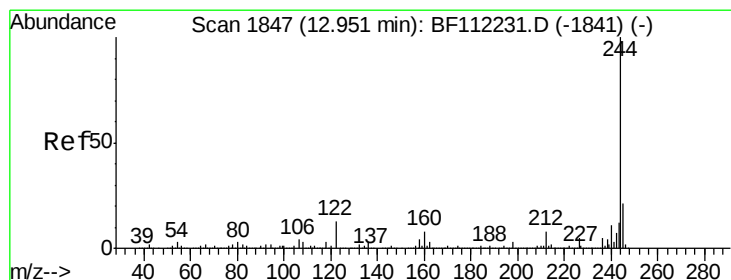
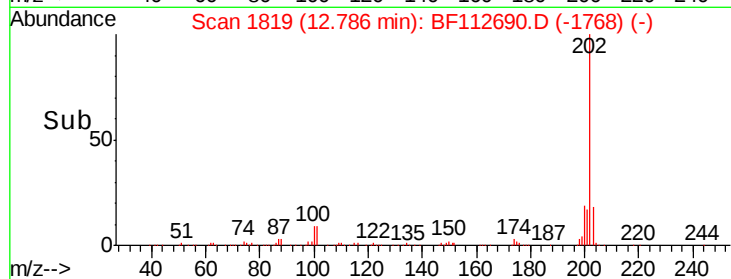
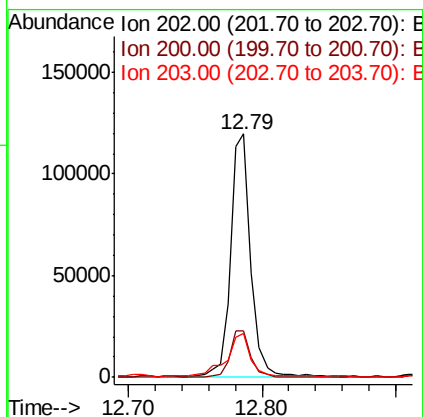
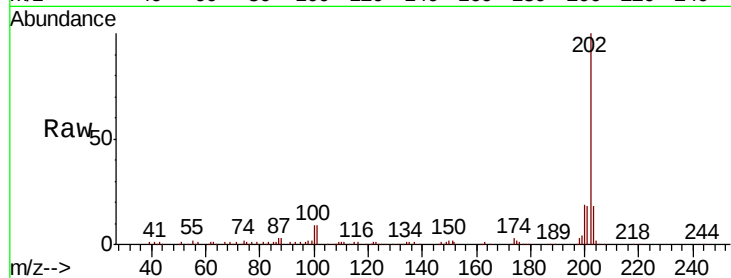




#78
Pvrene
Concen: 15.899 ng
RT: 12.79 min Scan# 1819
Delta R.T. -0.00 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

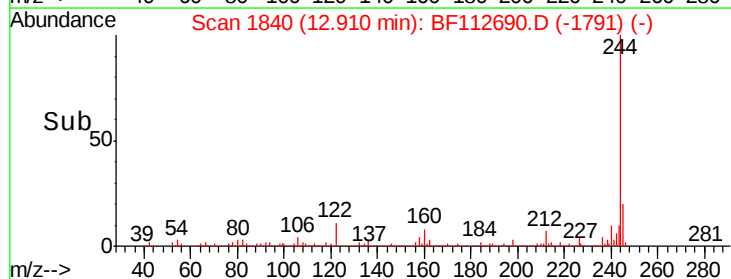
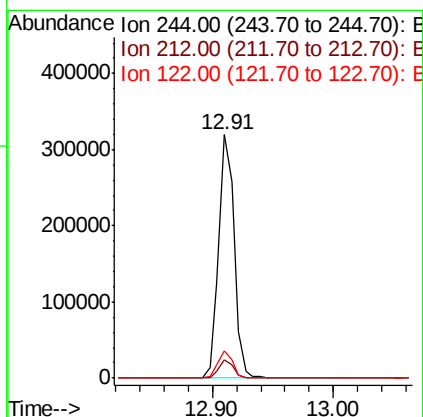
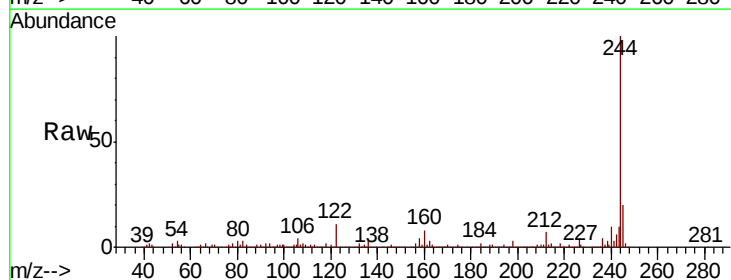
Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

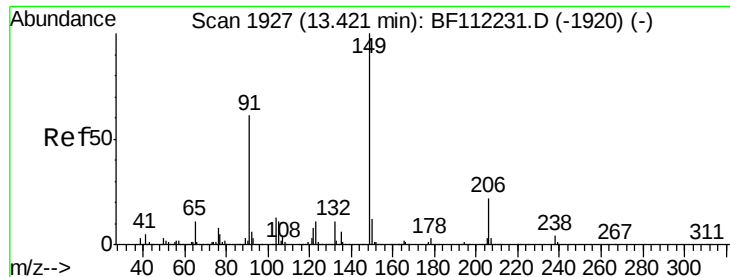
Tot Ion:202 Resp: 127705
Ion Ratio Lower Upper
202 100
200 19.0 17.7 26.5
203 17.9 14.6 22.0



#79
Terphenyl-d14
Concen: 45.702 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.01 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion:244 Resp: 281512
Ion Ratio Lower Upper
244 100
212 7.4 5.9 8.9
122 11.3 9.8 14.6

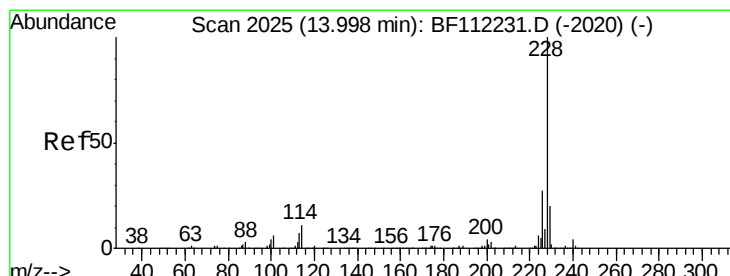
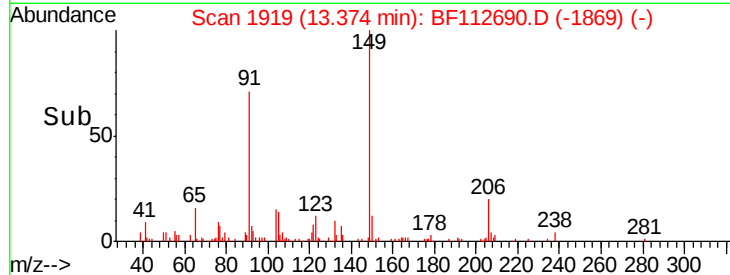
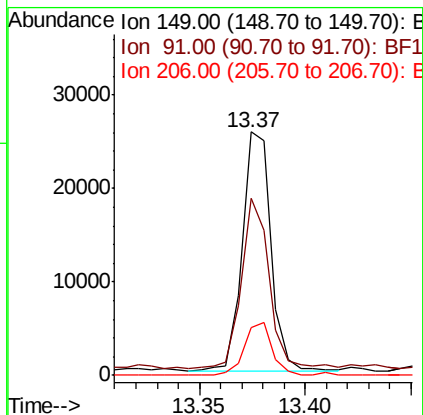
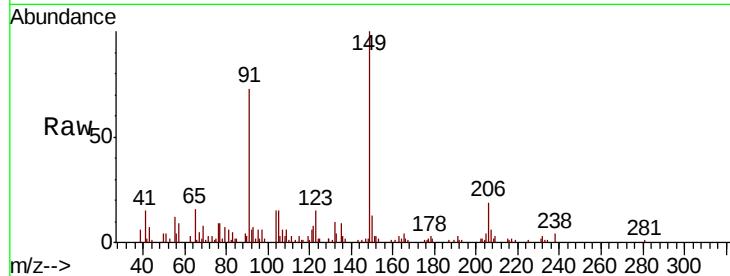




#80
 Butylbenzylphthalate
 Concen: 6.113 ng
 RT: 13.37 min Scan# 1919
 Delta R.T. -0.01 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

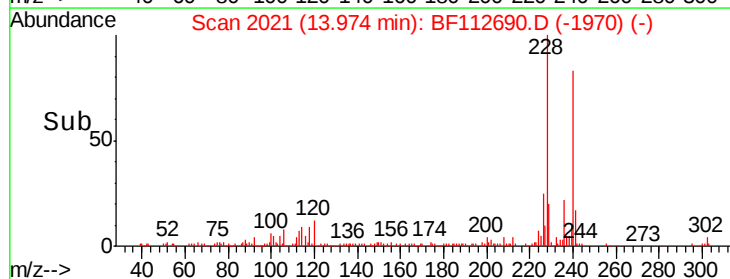
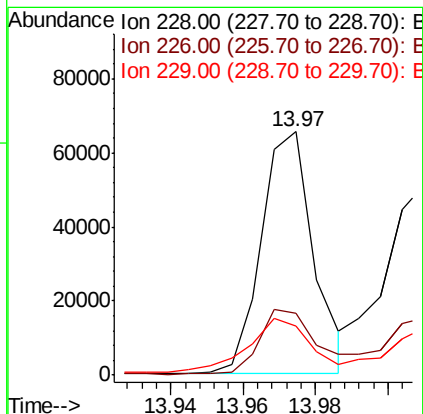
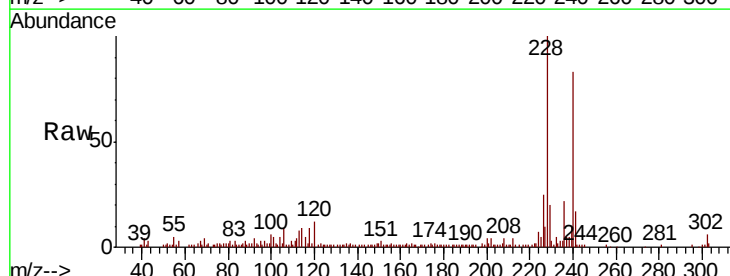
Instrument :
 BNA_F
 ClientSampleId :
 TP-E-WALL-GRADE-BEAM

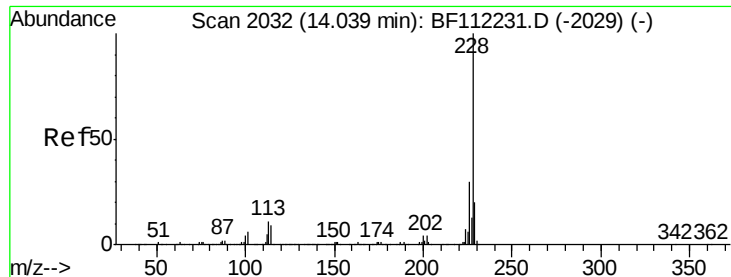
Tot Ion:	149	Resp:	23758
Ion	Ratio	Lower	Upper
149	100		
91	72.5	50.3	75.5
206	19.5	18.2	27.4



#81
 Benzo(a)anthracene
 Concen: 9.604 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: BF112690.D
 Acq: 25 Feb 2019 14:14

Tgt Ion:	228	Resp:	65499
Ion	Ratio	Lower	Upper
228	100		
226	25.2	22.6	34.0
229	20.3	16.5	24.7

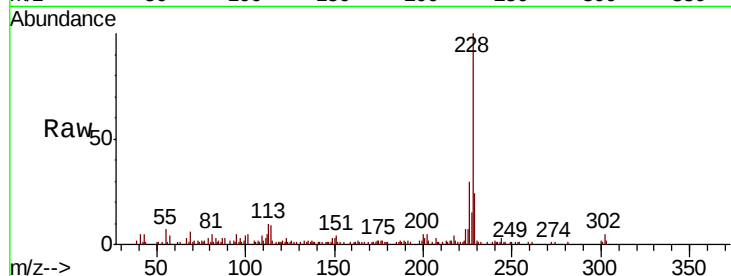




#83
Chrysene
Concen: 9.411 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	24.5	16.6	24.8

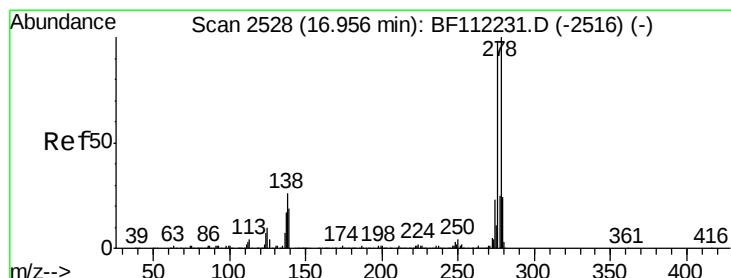
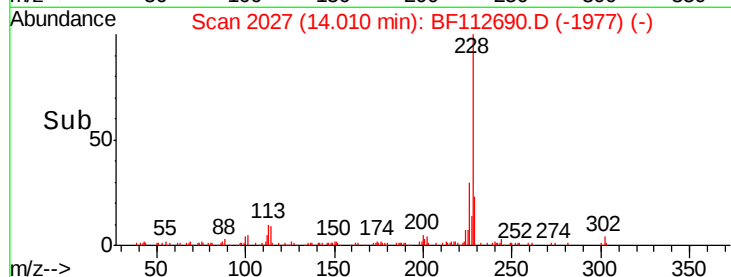
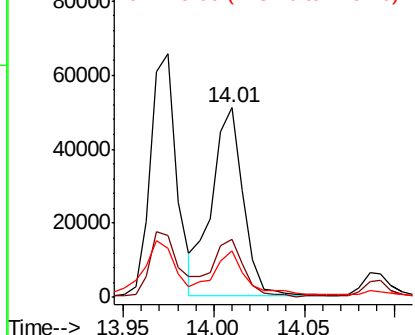


Abundance

Ion 228.00 (227.70 to 228.70): E

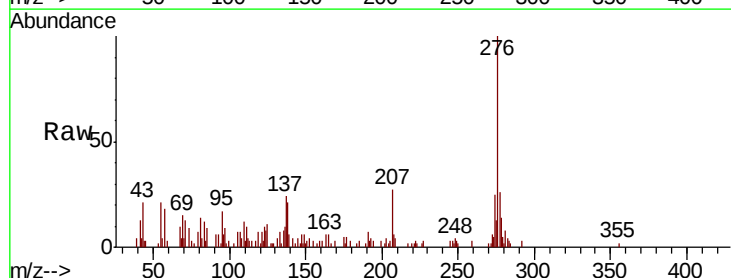
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 6.264 ng
RT: 16.96 min Scan# 2528
Delta R.T. -0.00 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.1	22.6	34.0#
277	25.6	20.3	30.5

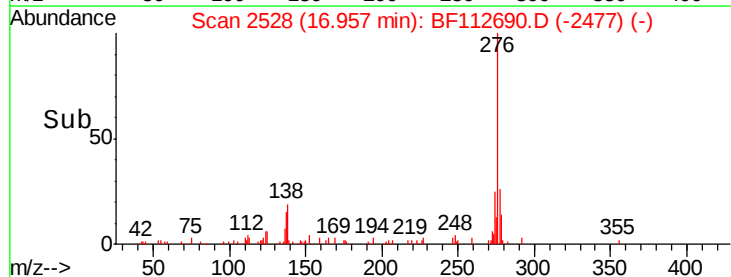
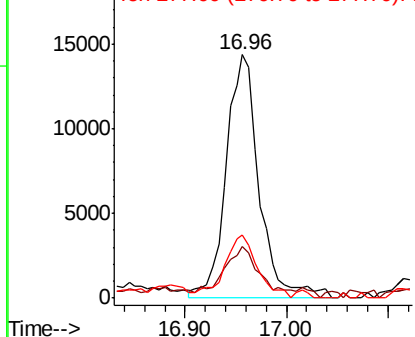


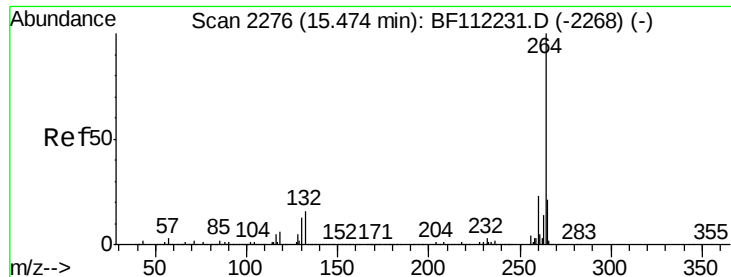
Abundance

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

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2273

Delta R.T. -0.00 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

Instrument :

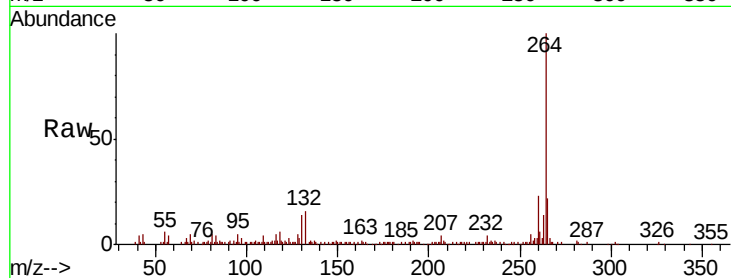
BNA_F

ClientSampleId :

TP-E-WALL-GRADE-BEAM

Tot Ion:264 Resp: 105230

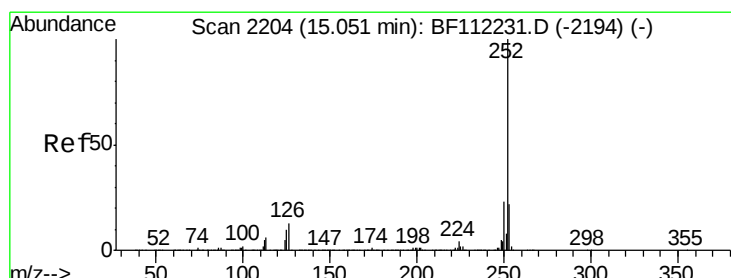
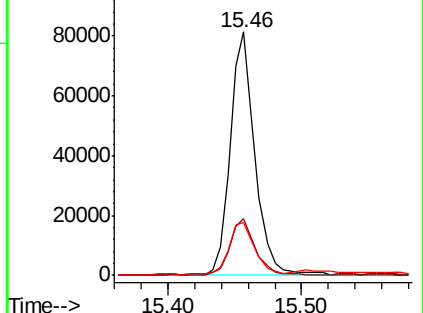
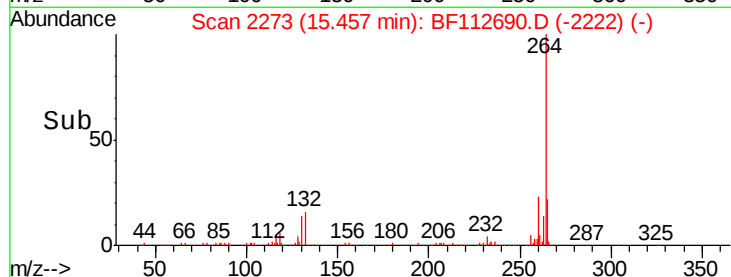
Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.2	27.2
265	21.5	17.0	25.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 16.760 ng

RT: 15.03 min Scan# 2200

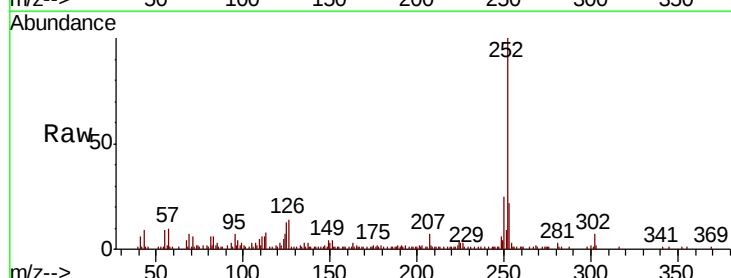
Delta R.T. -0.00 min

Lab File: BF112690.D

Acq: 25 Feb 2019 14:14

Tgt Ion:252 Resp: 105475

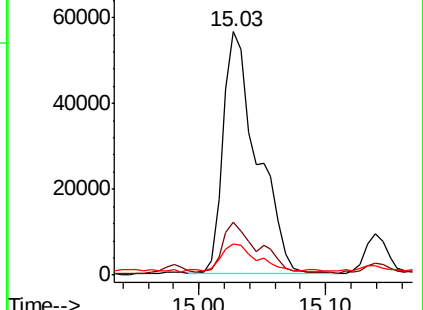
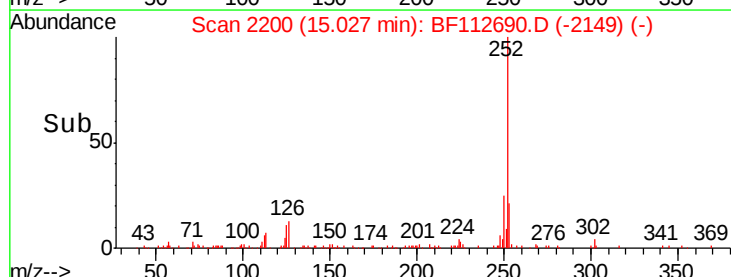
Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	12.8	8.7	13.1

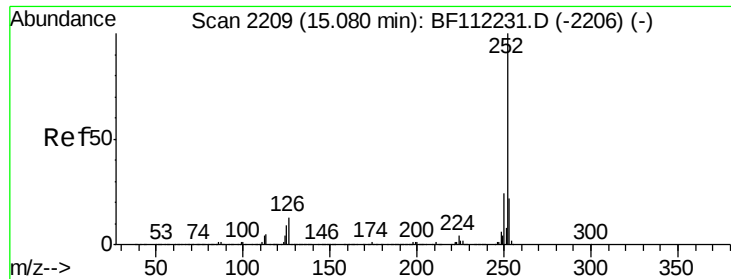


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

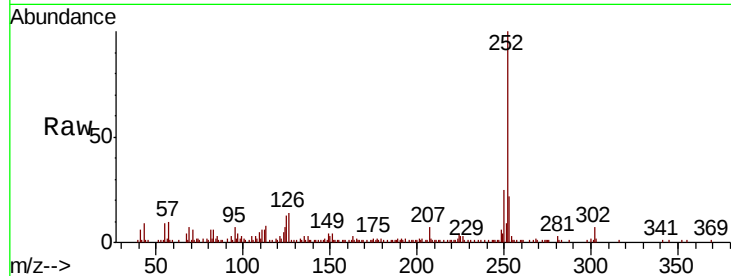




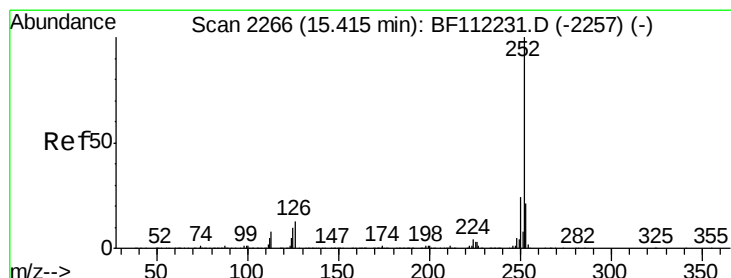
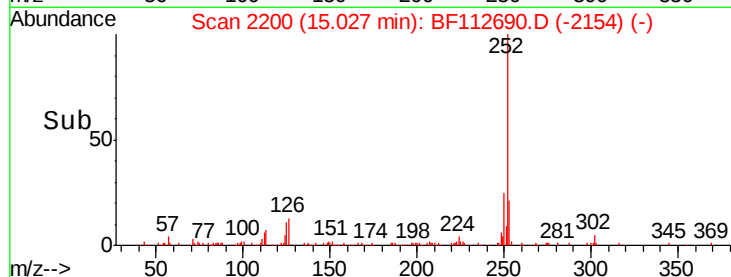
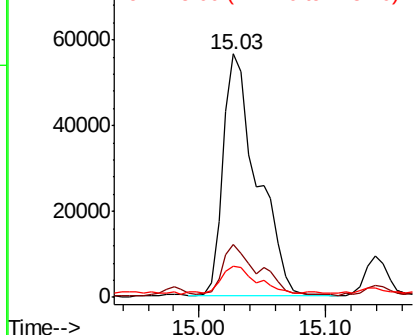
#89
Benzo(k)fluoranthene
Concen: 17.497 ng
RT: 15.03 min Scan# 2209
Delta R.T. -0.03 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

Tot Ion:252 Resp: 105475
Ion Ratio Lower Upper
252 100
253 21.8 18.0 27.0
125 12.8 9.1 13.7

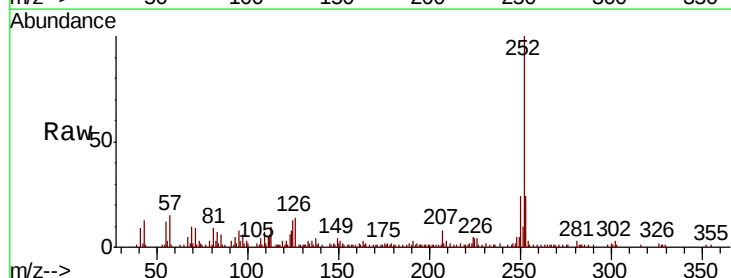


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

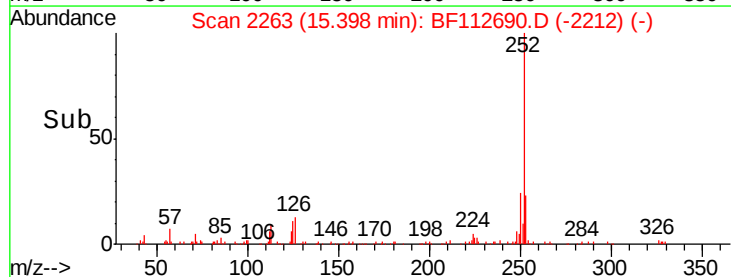
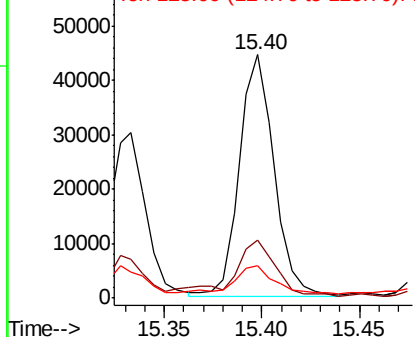


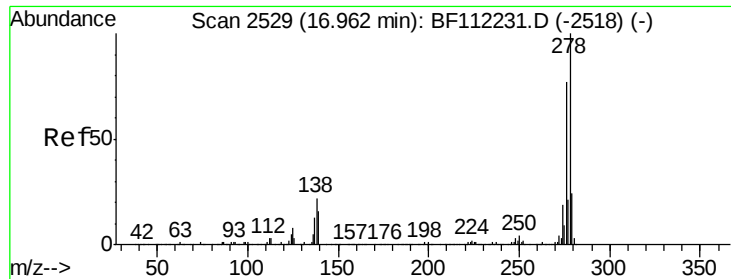
#90
Benzo(a)pyrene
Concen: 9.643 ng
RT: 15.40 min Scan# 2263
Delta R.T. -0.00 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion:252 Resp: 54605
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 13.2 9.0 13.4



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

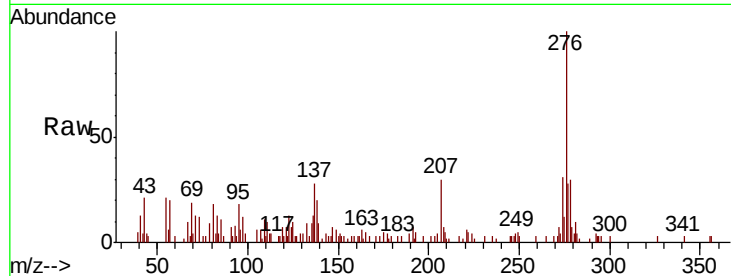




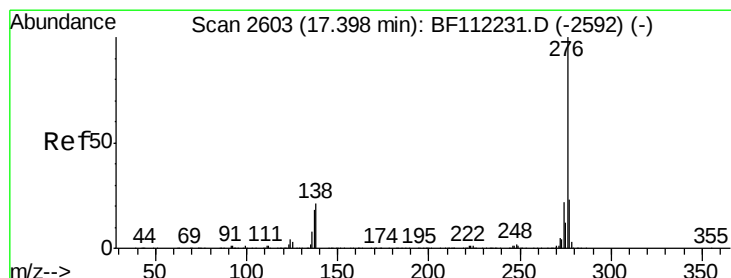
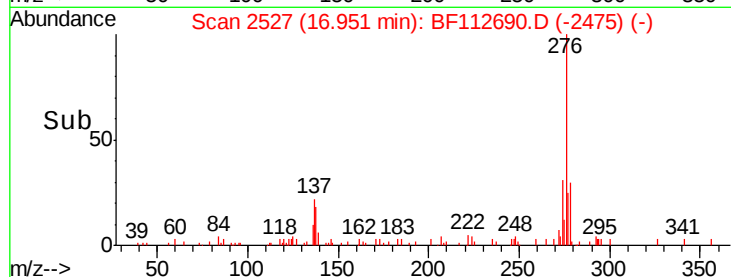
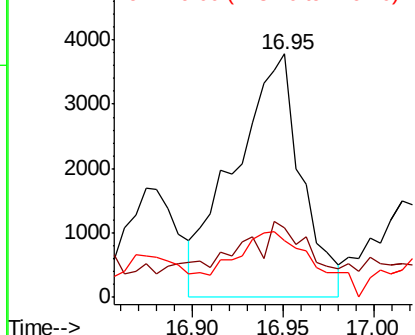
#91
Dibenzo(a,h)anthracene
Concen: 2.130 ng
RT: 16.95 min Scan# 2527
Delta R.T. 0.01 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Instrument :
BNA_F
ClientSampleId :
TP-E-WALL-GRADE-BEAM

Tot Ion:278 Resp: 9719
Ion Ratio Lower Upper
278 100
139 28.4 13.7 20.5#
279 23.6 19.0 28.6

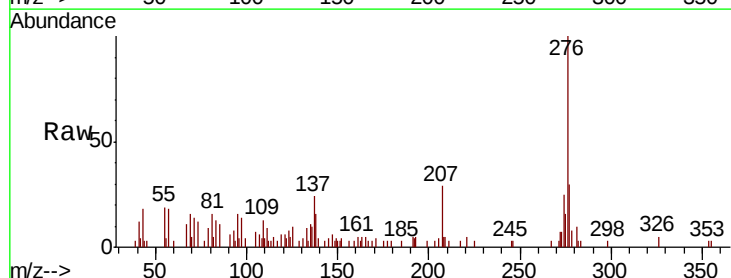


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 6.890 ng
RT: 17.42 min Scan# 2606
Delta R.T. 0.02 min
Lab File: BF112690.D
Acq: 25 Feb 2019 14:14

Tgt Ion:276 Resp: 29664
Ion Ratio Lower Upper
276 100
277 29.8 19.4 29.0#
138 15.9 19.1 28.7#



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

