

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM022519\
 Data File : BM018924.D
 Acq On : 25 Feb 2019 21:35
 Operator : JU/SJ
 Sample : K1597-03 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TP-26

Quant Time: Feb 26 00:03:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM021119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 11 16:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	175403	20.00	ng	-0.02
21) Naphthalene-d8	10.48	136	745096	20.00	ng	-0.02
39) Acenaphthene-d10	14.34	164	427775	20.00	ng	-0.02
64) Phenanthrene-d10	17.10	188	959830	20.00	ng	-0.02
76) Chrysene-d12	21.30	240	936743	20.00	ng	-0.01
87) Perylene-d12	23.55	264	1046170	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	199621	18.65	ng	-0.02
7) Phenol-d6	6.87	99	278117	18.44	ng	-0.02
23) Nitrobenzene-d5	8.86	82	183165	11.37	ng	-0.02
42) 2,4,6-Tribromophenol	15.84	330	95844	15.54	ng	-0.02
45) 2-Fluorobiphenyl	12.96	172	344472	10.69	ng	-0.02
79) Terphenyl-d14	19.73	244	516308	11.37	ng	-0.01

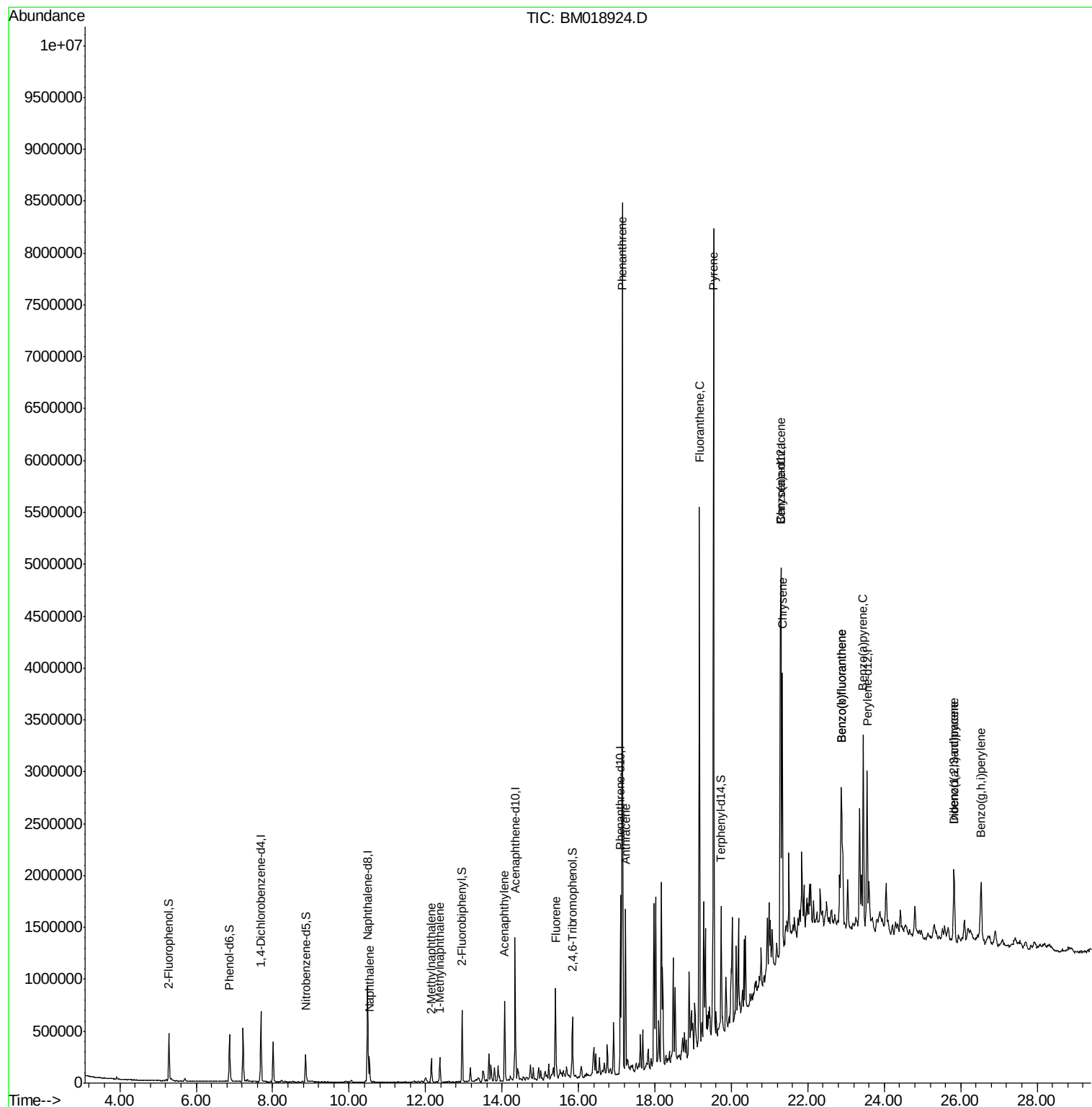
Target Compounds				Qvalue		
9) Benzaldehyde	6.87	77	1923	Below Cal	#	45
31) Naphthalene	10.53	128	201456	5.544 ng		99
37) 2-Methylnaphthalene	12.15	142	108379	4.236 ng		99
38) 1-Methylnaphthalene	12.37	142	107396	4.293 ng		99
49) Acenaphthylene	14.07	152	490435	11.581 ng		99
58) Fluorene	15.40	166	390083	11.947 ng		99
71) Phenanthrene	17.14	178	4645332	90.056 ng		100
72) Anthracene	17.23	178	889381	17.714 ng		100
75) Fluoranthene	19.17	202	2773383	46.545 ng		99
78) Pyrene	19.53	202	4185020	76.923 ng		99
81) Benzo(a)anthracene	21.28	228	1484848	27.193 ng		96
83) Chrysene	21.33	228	1336392	25.534 ng		98
86) Indeno(1,2,3-cd)pyrene	25.83	276	606558	10.038 ng		95
88) Benzo(b)fluoranthene	22.87	252	1615852	26.996 ng		97
89) Benzo(k)fluoranthene	22.87	252	1620217	27.190 ng		97
90) Benzo(a)pyrene	23.45	252	1181715	20.841 ng		97
91) Dibenzo(a,h)anthracene	25.83	278	190853	3.397 ng	#	87
92) Benzo(g,h,i)perylene	26.53	276	664555	12.707 ng		99

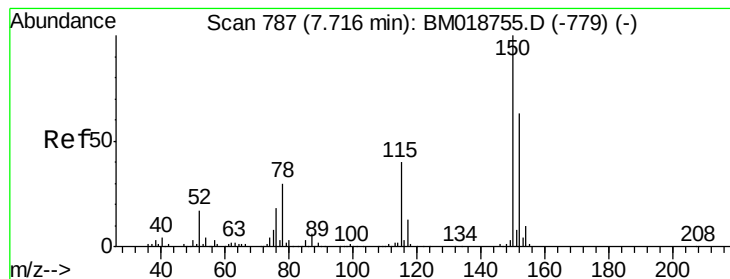
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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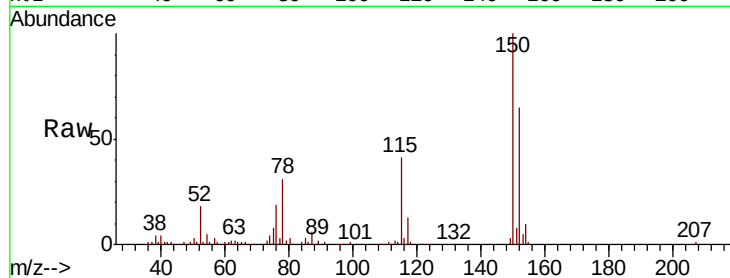


#1

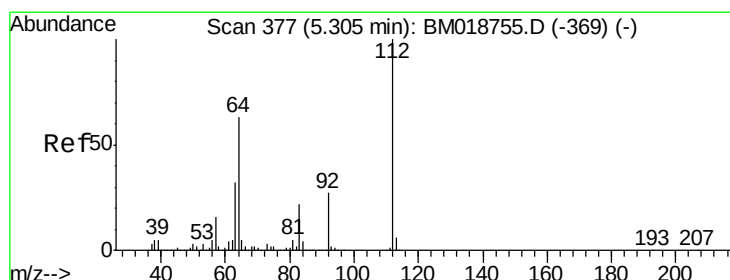
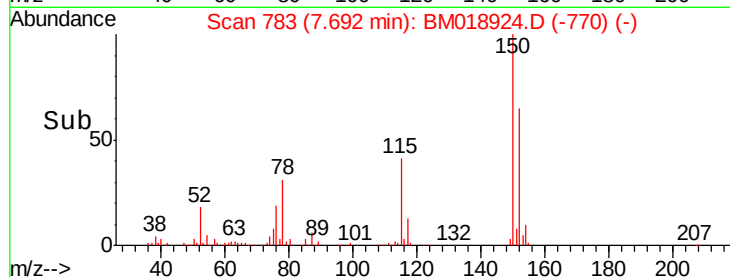
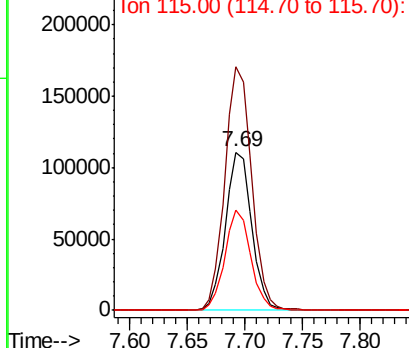
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.69 min Scan# 783
Delta R.T. -0.02 min
Lab File: BM018924.D
Acq: 25 Feb 2019 21:35

Instrument :
BNA_M
ClientSampleId :
TP-26

Tgt Ion:152 Resp: 175403
Ion Ratio Lower Upper
152 100
150 153.7 127.3 190.9
115 63.1 50.8 76.2



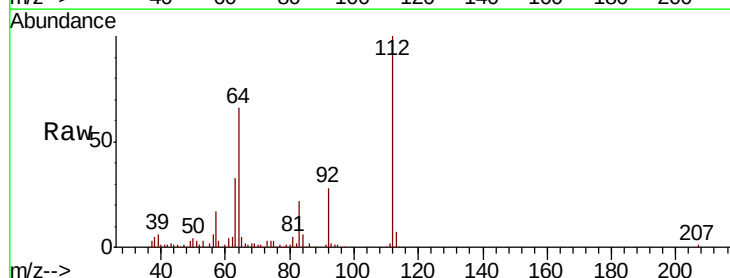
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



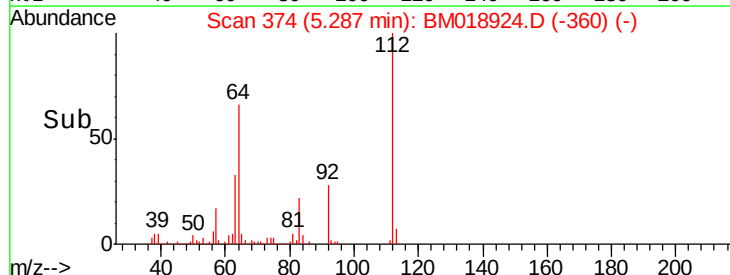
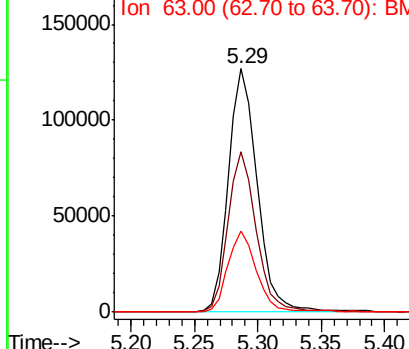
#5

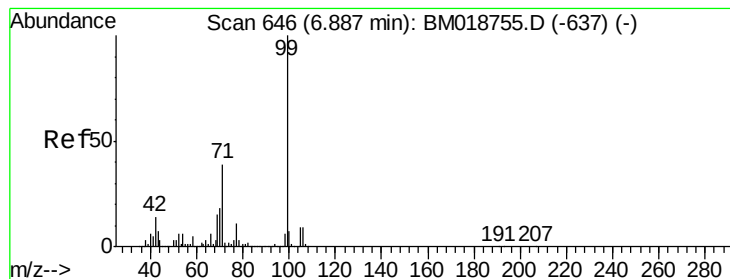
2-Fluorophenol
Concen: 18.647 ng
RT: 5.29 min Scan# 374
Delta R.T. -0.02 min
Lab File: BM018924.D
Acq: 25 Feb 2019 21:35

Tgt Ion:112 Resp: 199621
Ion Ratio Lower Upper
112 100
64 65.7 50.6 75.8
63 33.3 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 18.441 ng

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

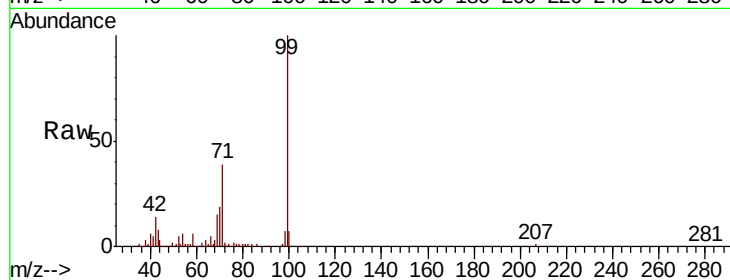
Tgt Ion: 99 Resp: 278117

Ion Ratio Lower Upper

99 100

42 14.3 11.0 16.6

71 38.5 31.3 46.9



Abundance Ion 99.00 (98.70 to 99.70): BM018755.D (-637) (-)

Ion 42.00 (41.70 to 42.70): BM018755.D (-637) (-)

Ion 71.00 (70.70 to 71.70): BM018755.D (-637) (-)

6.87

200000

150000

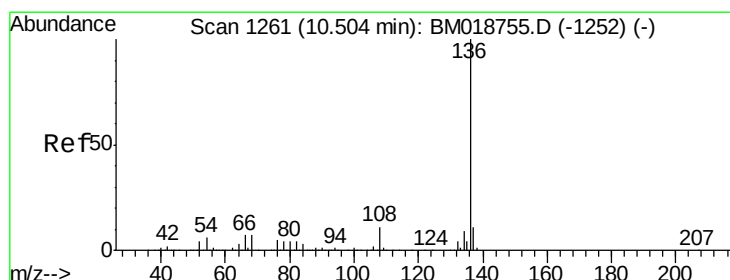
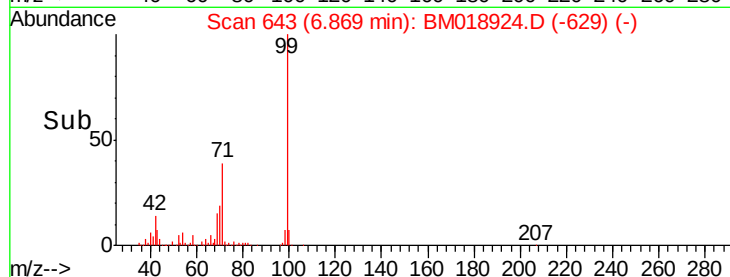
100000

50000

0

6.80 6.85 6.90 6.95

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Tgt Ion: 136 Resp: 745096

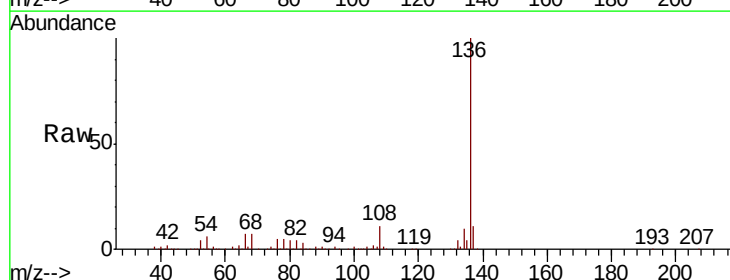
Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 6.5 5.0 7.6

68 7.3 5.5 8.3



Abundance Ion 136.00 (135.70 to 136.70): BM018755.D (-1252) (-)

Ion 137.00 (136.70 to 137.70): BM018755.D (-1252) (-)

Ion 54.00 (53.70 to 54.70): BM018755.D (-1252) (-)

Ion 68.00 (67.70 to 68.70): BM018755.D (-1252) (-)

10.48

600000

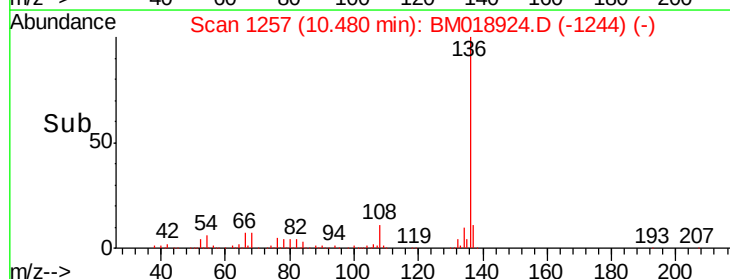
400000

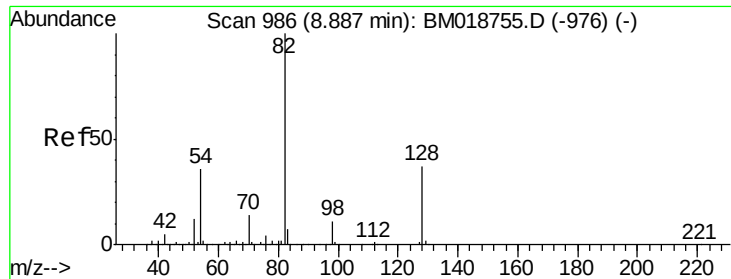
200000

0

10.40 10.50

Time-->

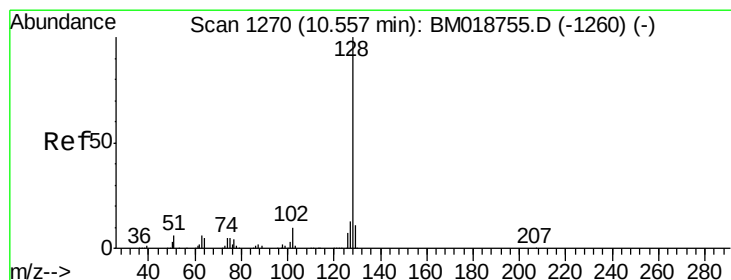
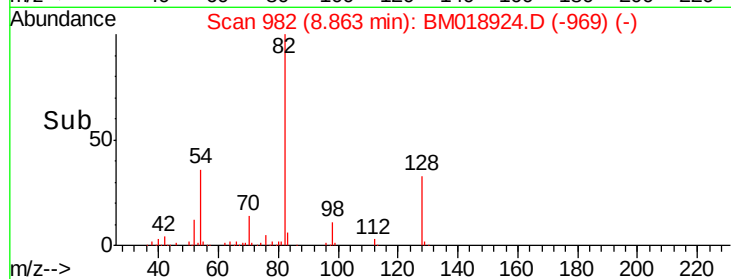
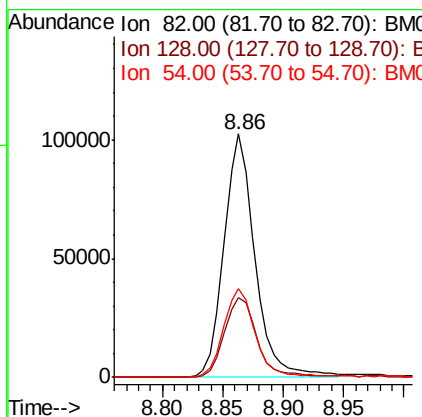
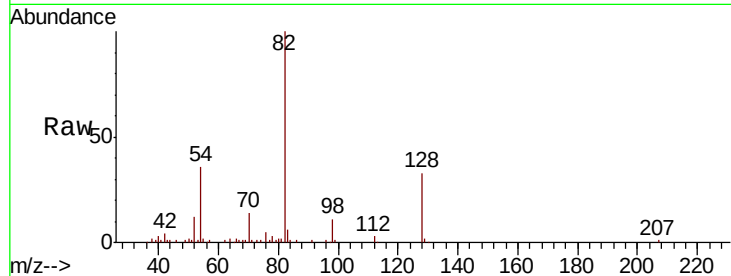




#23
 Nitrobenzene-d5
 Concen: 11.367 ng
 RT: 8.86 min Scan# 982
 Delta R.T. -0.02 min
 Lab File: BM018924.D
 Acq: 25 Feb 2019 21:35

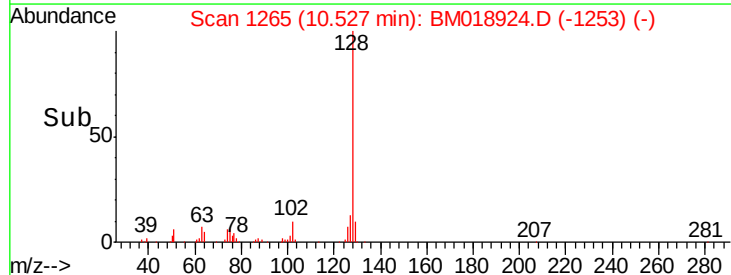
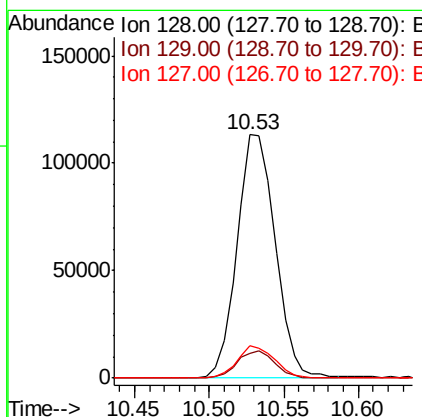
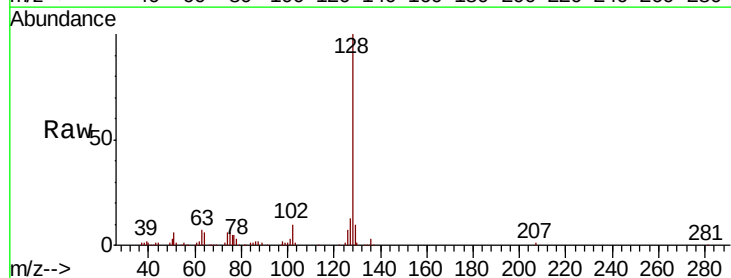
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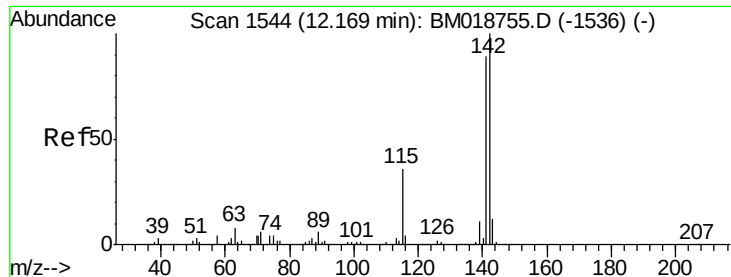
Tgt Ion	Ratio	Lower	Upper
82	100		
128	32.7	29.9	44.9
54	36.5	29.1	43.7



#31
 Naphthalene
 Concen: 5.544 ng
 RT: 10.53 min Scan# 1265
 Delta R.T. -0.03 min
 Lab File: BM018924.D
 Acq: 25 Feb 2019 21:35

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	9.0	13.4
127	13.1	10.7	16.1

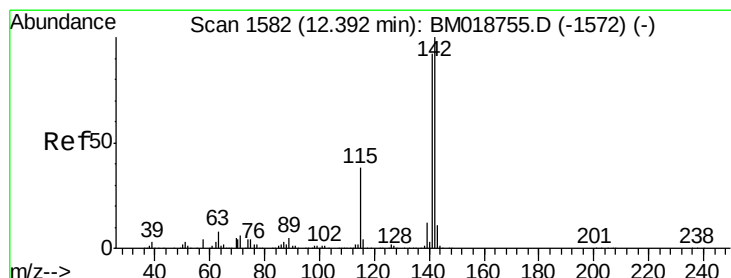
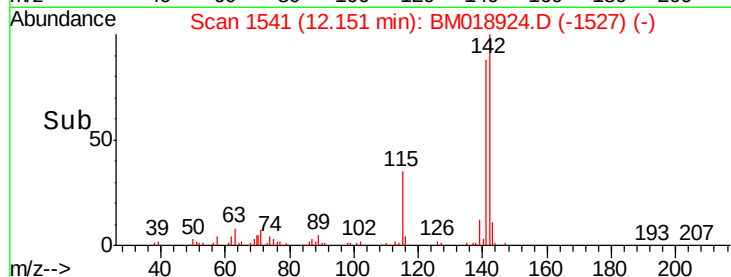
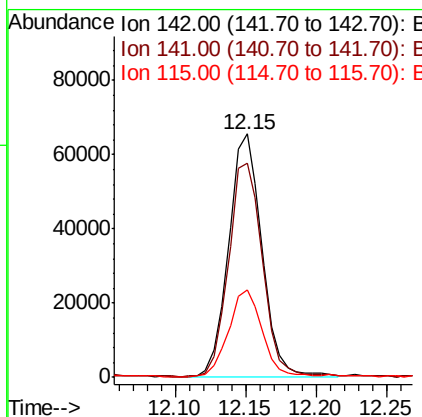
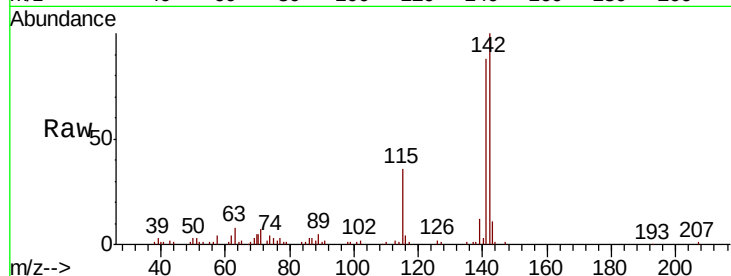




#37
 2-Methylnaphthalene
 Concen: 4.236 ng
 RT: 12.15 min Scan# 1541
 Delta R.T. -0.02 min
 Lab File: BM018924.D
 Acq: 25 Feb 2019 21:35

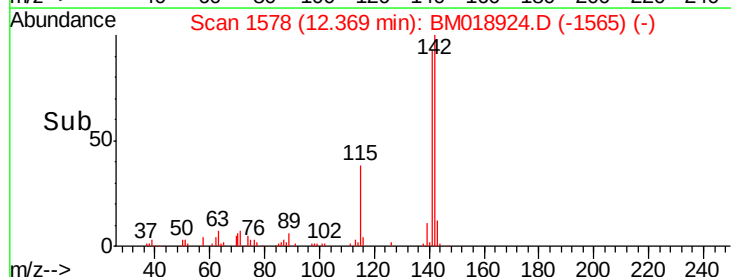
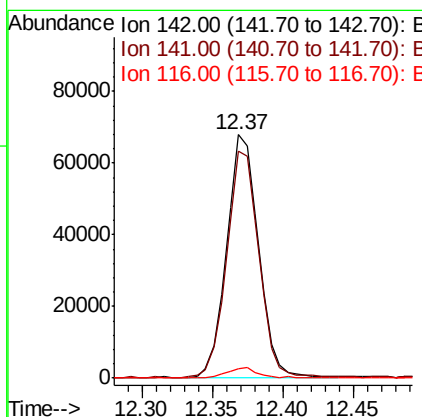
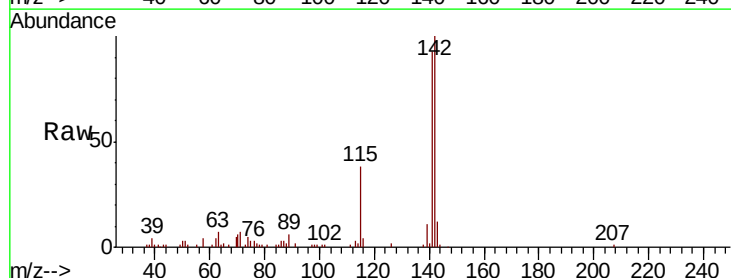
Instrument :
 BNA_M
 ClientSampleId :
 TP-26

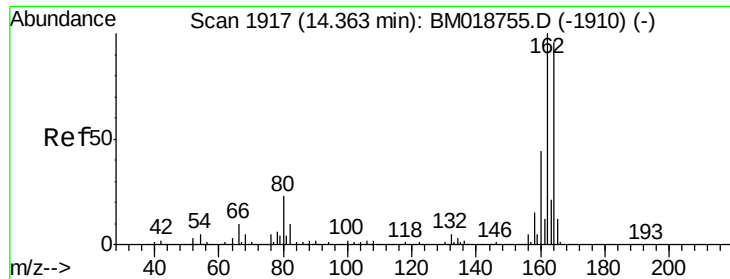
Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.2	106.8
115	35.9	29.1	43.7



#38
 1-Methylnaphthalene
 Concen: 4.293 ng
 RT: 12.37 min Scan# 1578
 Delta R.T. -0.02 min
 Lab File: BM018924.D
 Acq: 25 Feb 2019 21:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.2	73.9	110.9
116	3.9	3.0	4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.34 min Scan# 1914

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

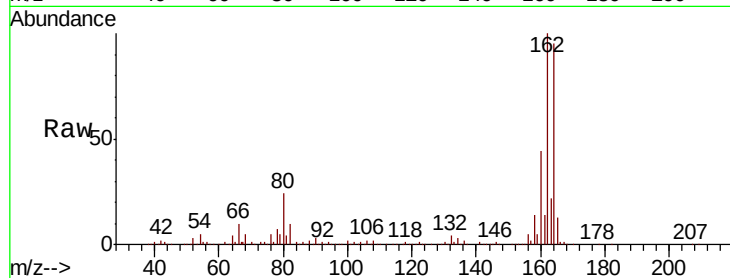
Tgt Ion:164 Resp: 427775

Ion Ratio Lower Upper

164 100

162 104.9 83.4 125.0

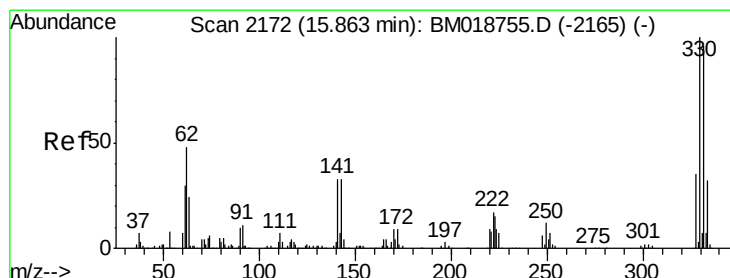
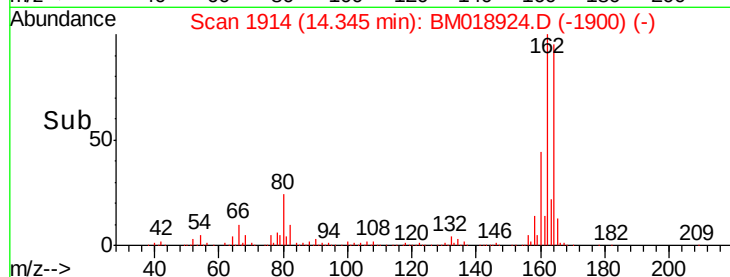
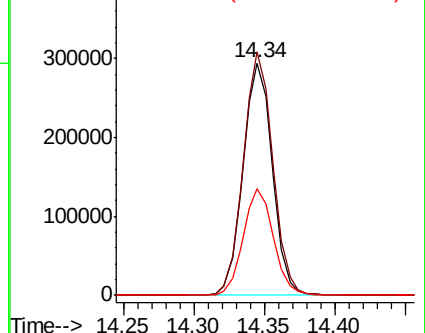
160 45.7 36.6 55.0



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: 15.543 ng

RT: 15.84 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

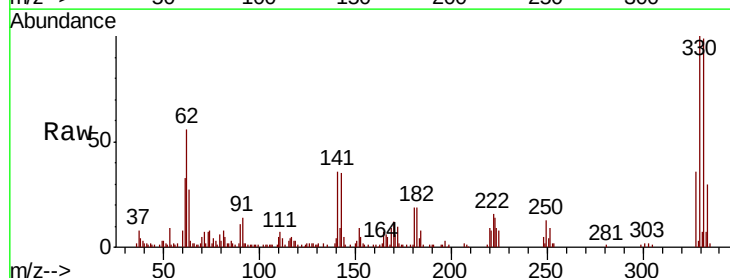
Tgt Ion:330 Resp: 95844

Ion Ratio Lower Upper

330 100

332 96.9 76.9 115.3

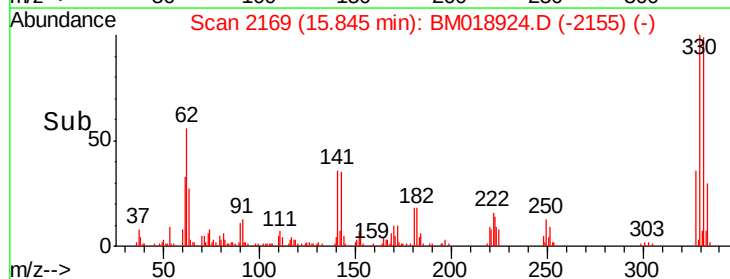
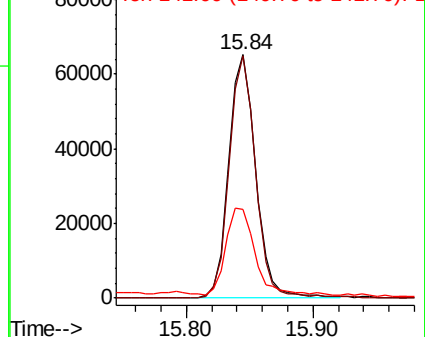
141 38.5 28.7 43.1

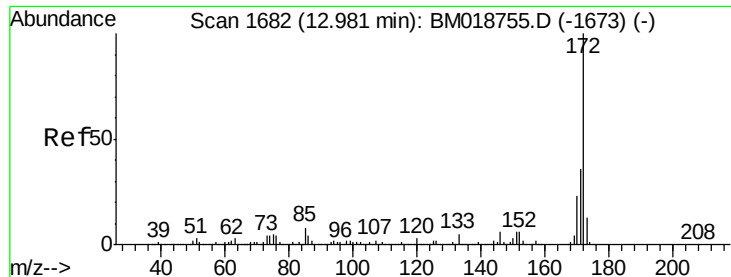


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

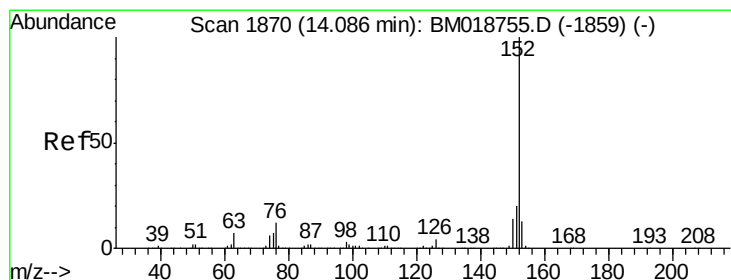
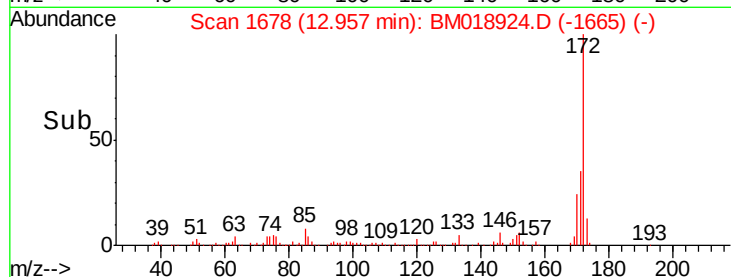
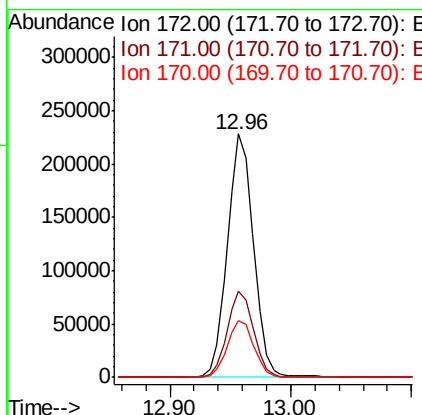
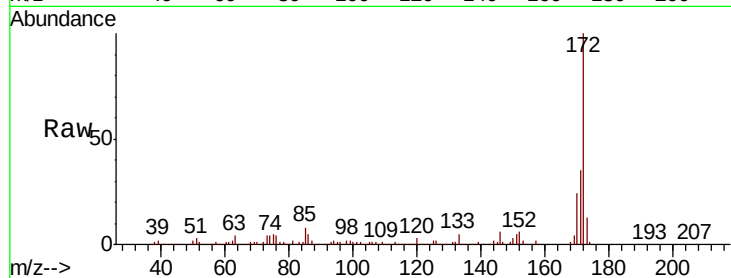




#45
2-Fluorobiphenyl
Concen: 10.690 ng
RT: 12.96 min Scan# 1678
Delta R.T. -0.02 min
Lab File: BM018924.D
Acq: 25 Feb 2019 21:35

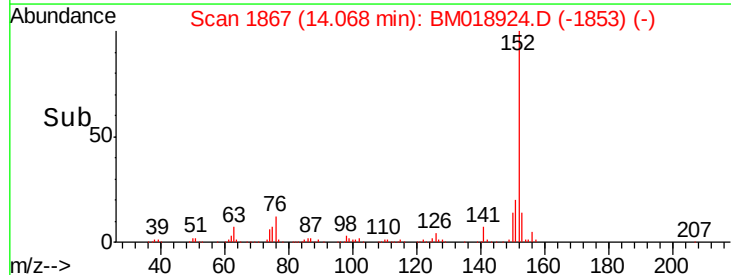
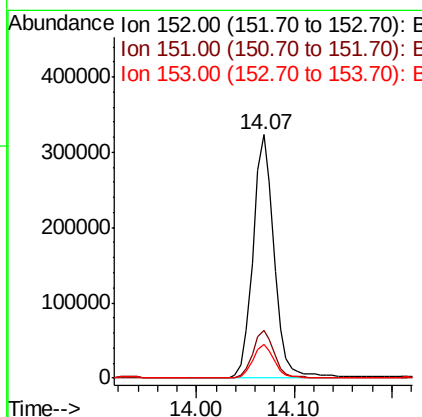
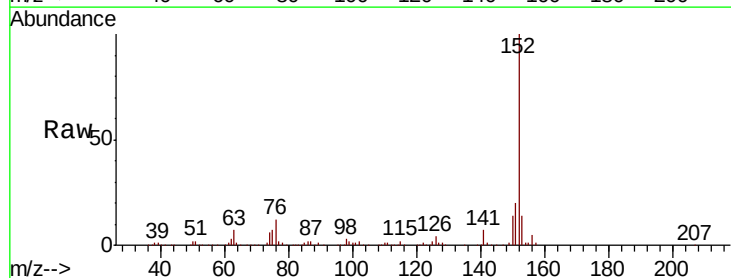
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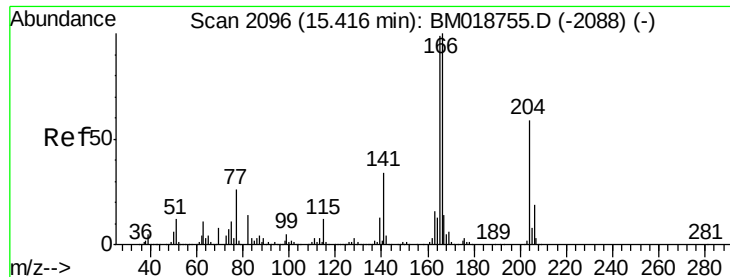
Tgt Ion:172 Resp: 344472
Ion Ratio Lower Upper
172 100
171 35.5 29.0 43.6
170 23.5 18.6 28.0



#49
Acenaphthylene
Concen: 11.581 ng
RT: 14.07 min Scan# 1867
Delta R.T. -0.02 min
Lab File: BM018924.D
Acq: 25 Feb 2019 21:35

Tgt Ion:152 Resp: 490435
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.9 10.5 15.7





#58

Fluorene

Concen: 11.947 ng

RT: 15.40 min Scan# 2093

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

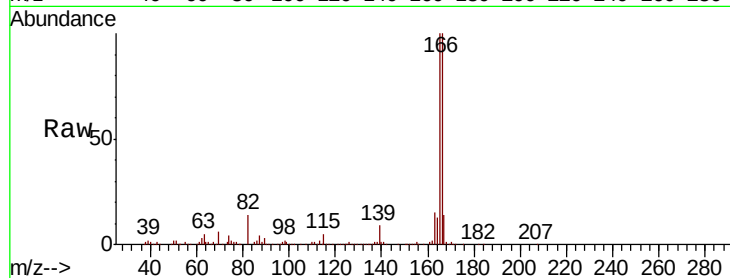
Tgt Ion:166 Resp: 390083

Ion Ratio Lower Upper

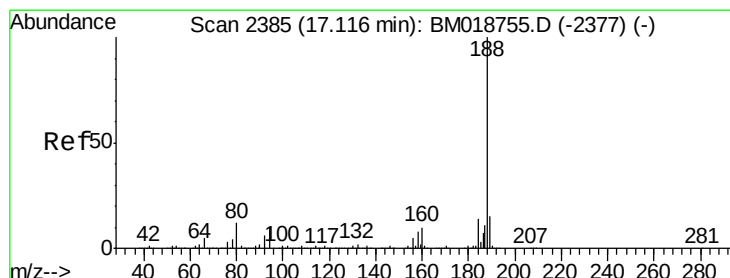
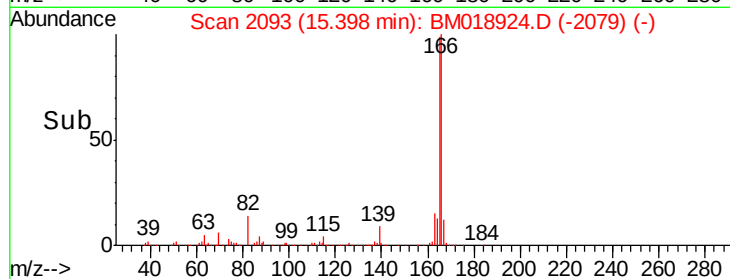
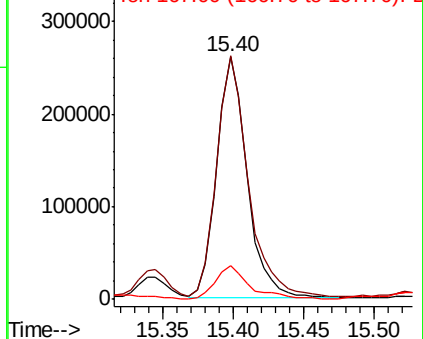
166 100

165 100.2 79.1 118.7

167 14.0 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.10 min Scan# 2382

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

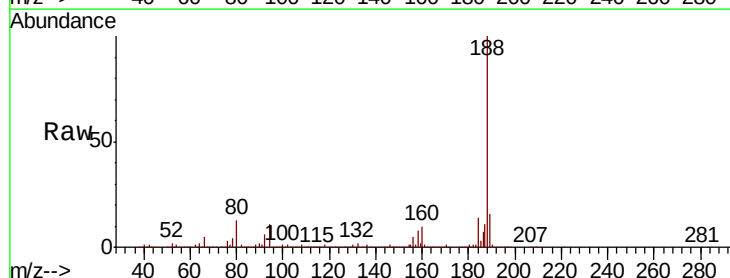
Tgt Ion:188 Resp: 959830

Ion Ratio Lower Upper

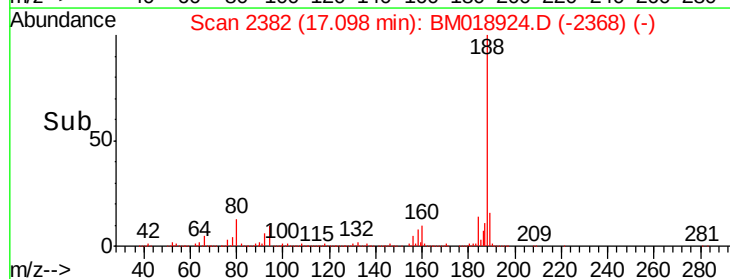
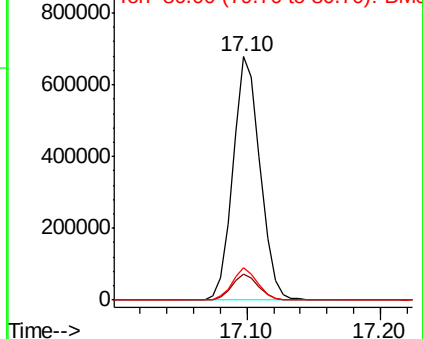
188 100

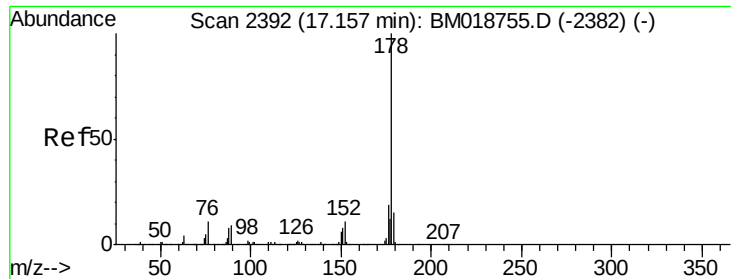
94 10.6 8.2 12.2

80 13.1 9.7 14.5



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM0
Ion 80.00 (79.70 to 80.70): BM0





#71

Phenanthrene

Concen: 90.056 ng

RT: 17.14 min Scan# 2390

Delta R.T. -0.01 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

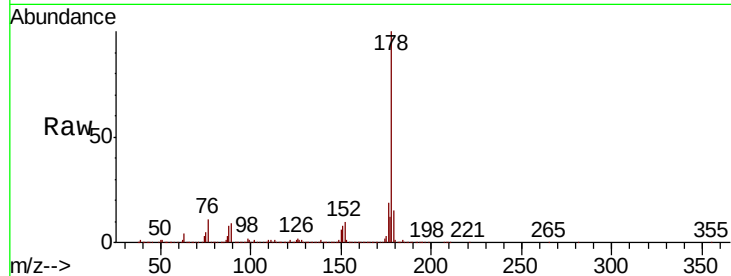
Tgt Ion:178 Resp: 4645332

Ion Ratio Lower Upper

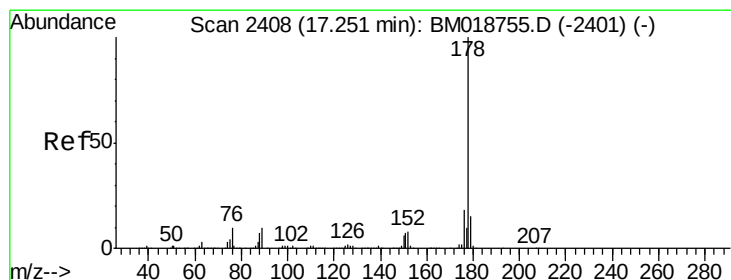
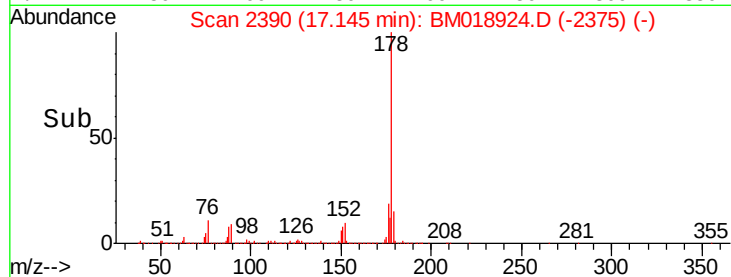
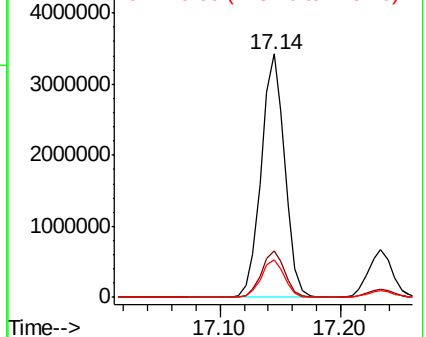
178 100

176 19.3 15.4 23.0

179 15.3 12.3 18.5



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: 17.714 ng

RT: 17.23 min Scan# 2405

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

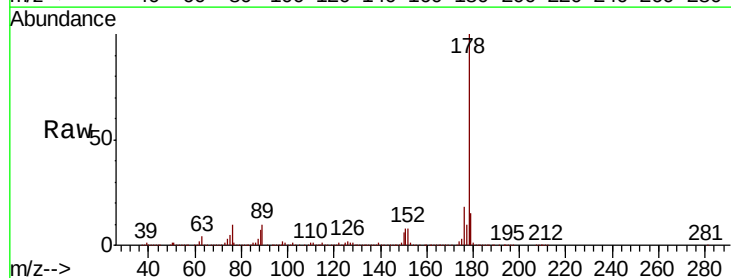
Tgt Ion:178 Resp: 889381

Ion Ratio Lower Upper

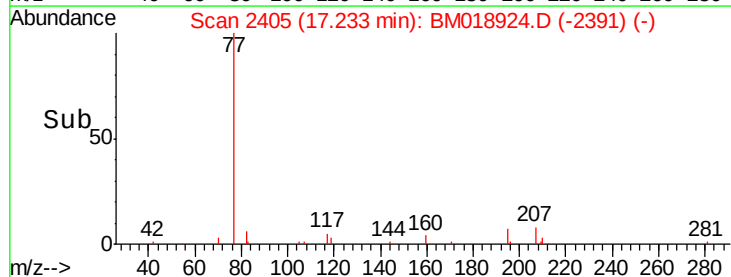
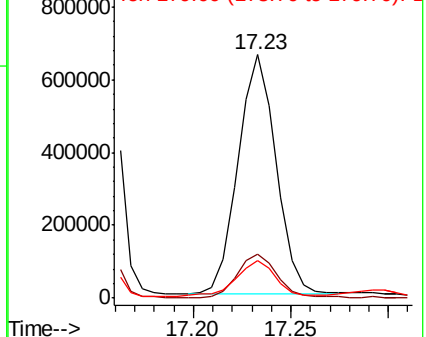
178 100

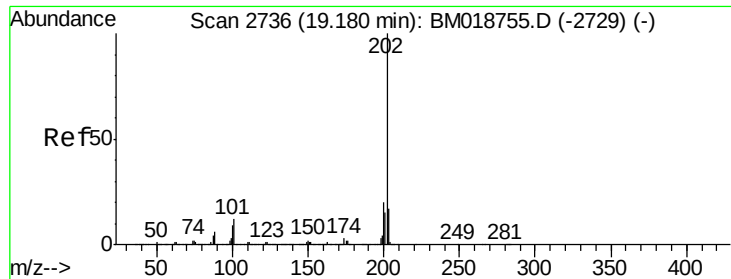
176 18.3 14.8 22.2

179 15.3 12.1 18.1



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

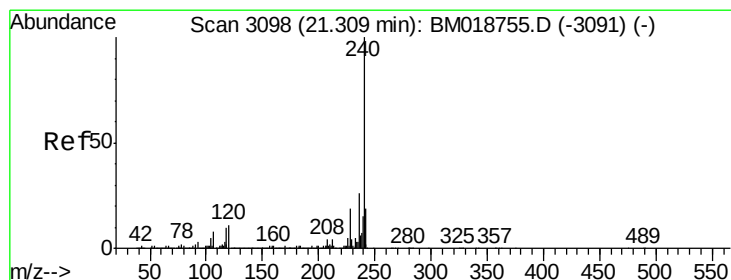
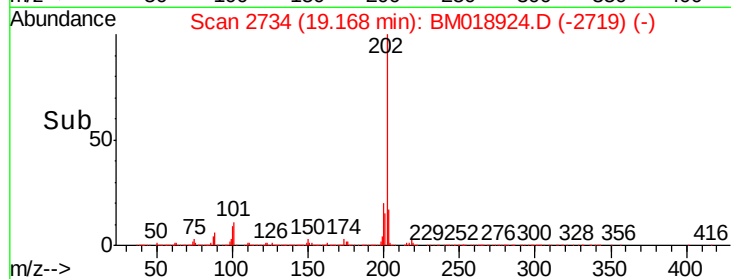
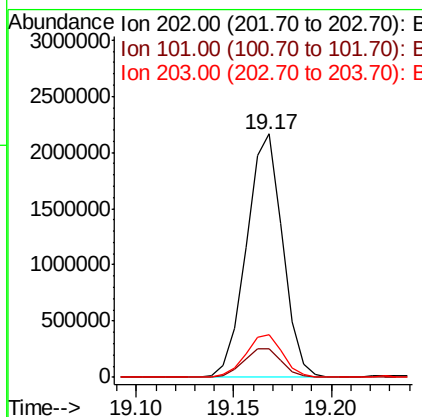
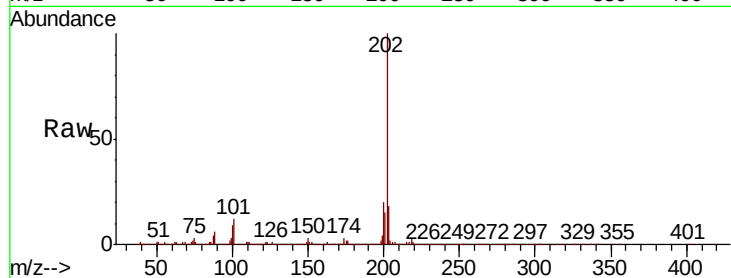




#75
 Fluoranthene
 Concen: 46.545 ng
 RT: 19.17 min Scan# 2734
 Delta R.T. -0.01 min
 Lab File: BM018924.D
 Acq: 25 Feb 2019 21:35

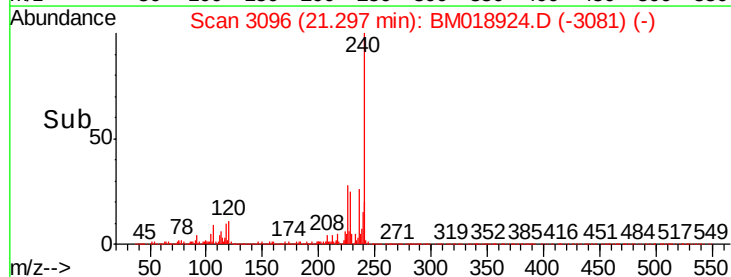
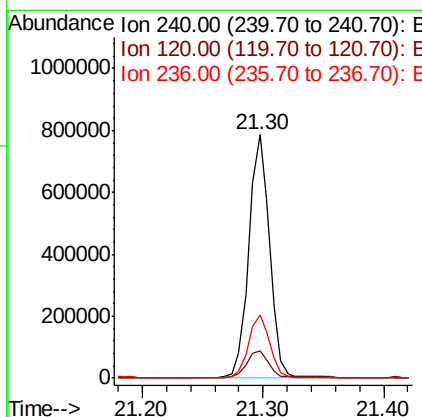
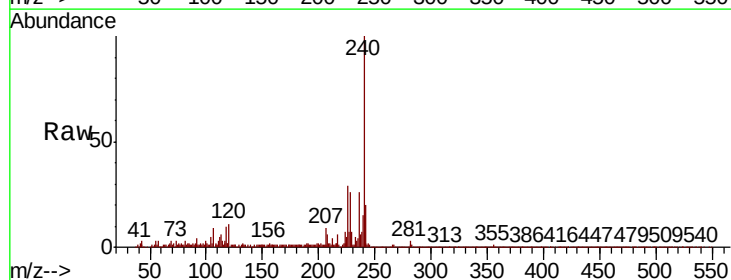
Instrument :
 BNA_M
 ClientSampleId :
 TP-26

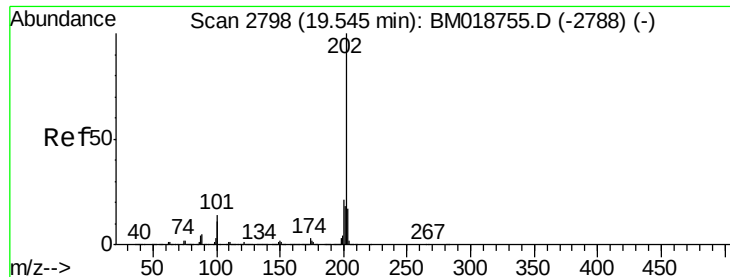
Tgt Ion:202 Resp: 2773383
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 31.5
 203 17.6 0.0 37.3



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.30 min Scan# 3096
 Delta R.T. -0.01 min
 Lab File: BM018924.D
 Acq: 25 Feb 2019 21:35

Tgt Ion:240 Resp: 936743
 Ion Ratio Lower Upper
 240 100
 120 11.4 8.9 13.3
 236 26.2 20.9 31.3





#78

Pyrene

Concen: 76.923 ng

RT: 19.53 min Scan# 2796

Delta R.T. -0.01 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

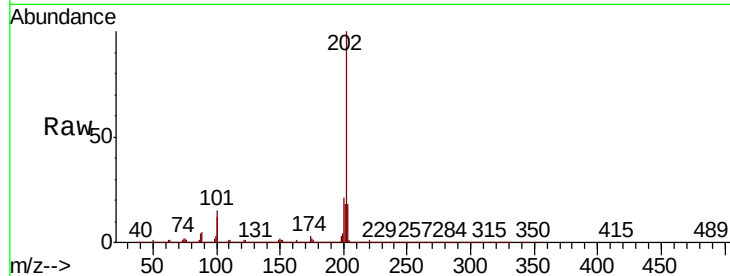
Tgt Ion:202 Resp: 4185020

Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

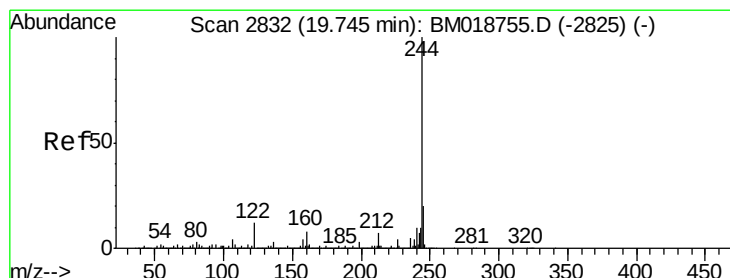
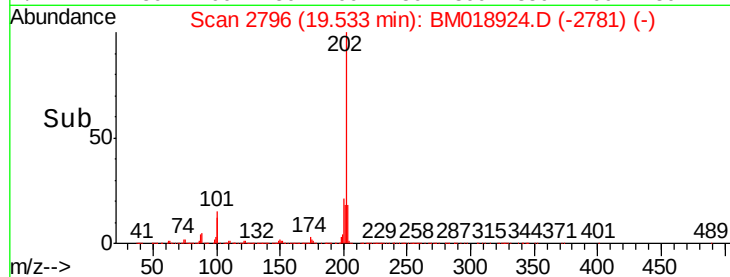
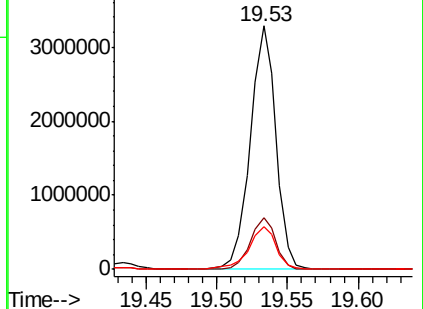
203 17.7 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 11.370 ng

RT: 19.73 min Scan# 2830

Delta R.T. -0.01 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

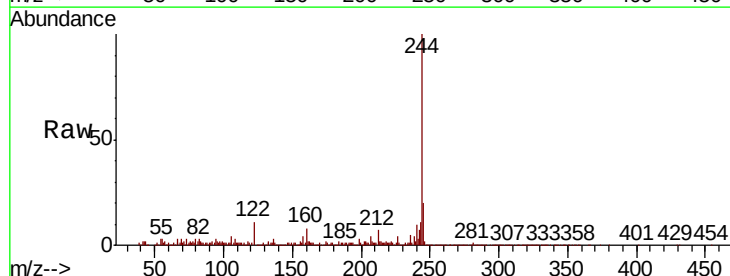
Tgt Ion:244 Resp: 516308

Ion Ratio Lower Upper

244 100

212 6.7 5.6 8.4

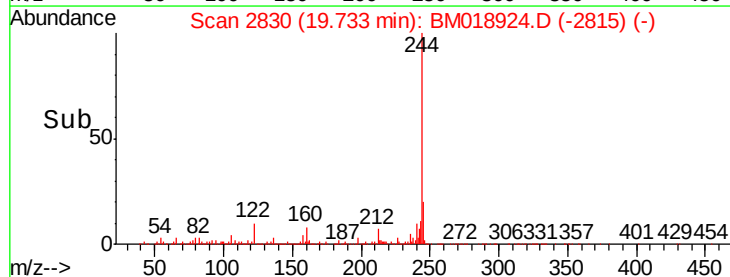
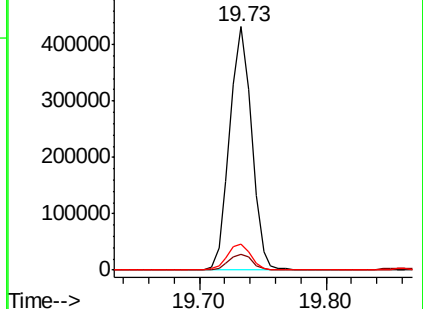
122 10.6 9.3 13.9

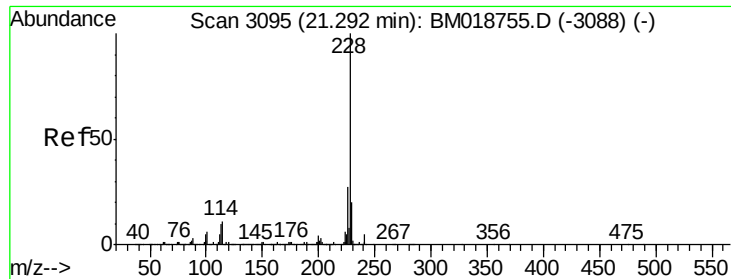


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

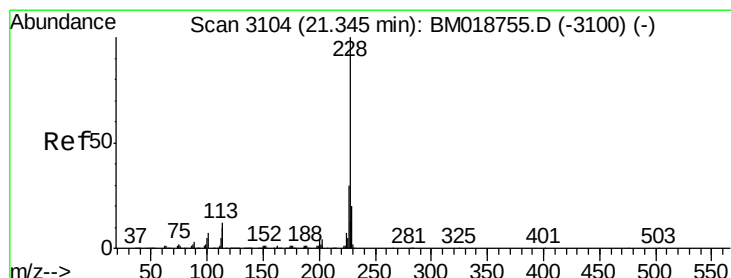
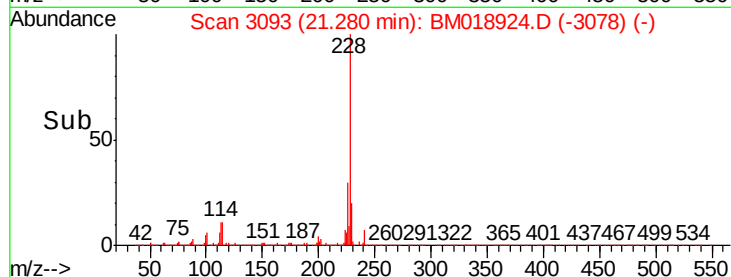
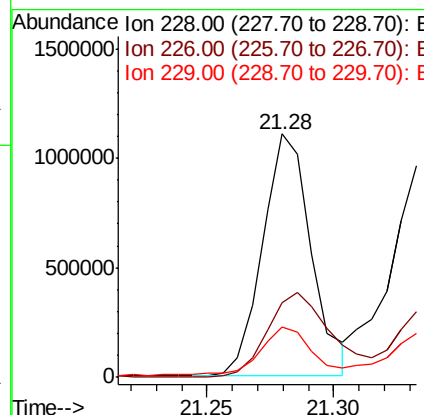
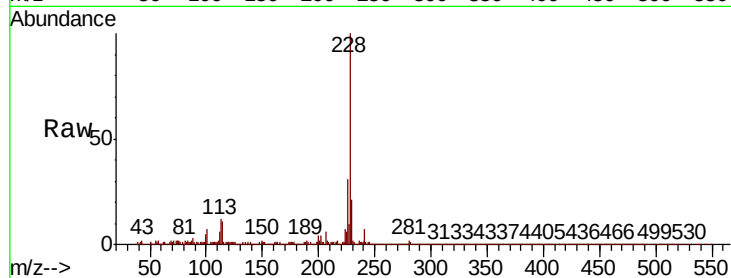




#81
Benzo(a)anthracene
Concen: 27.193 ng
RT: 21.28 min Scan# 3093
Delta R.T. -0.01 min
Lab File: BM018924.D
Acq: 25 Feb 2019 21:35

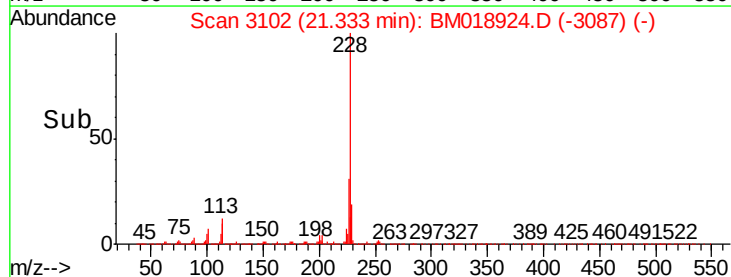
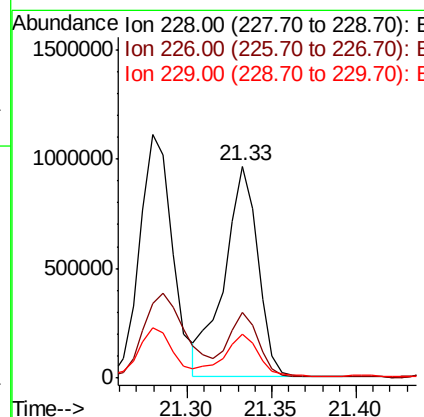
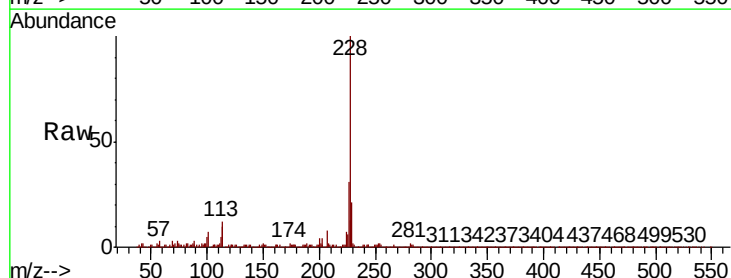
Instrument :
BNA_M
ClientSampled :
TP-26

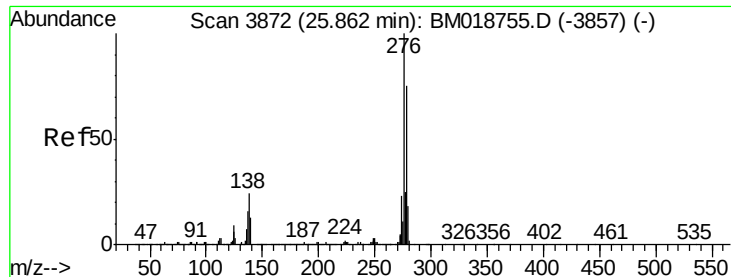
Tgt Ion:228 Resp: 1484848
Ion Ratio Lower Upper
228 100
226 30.5 21.9 32.9
229 20.7 15.9 23.9



#83
Chrysene
Concen: 25.534 ng
RT: 21.33 min Scan# 3102
Delta R.T. -0.01 min
Lab File: BM018924.D
Acq: 25 Feb 2019 21:35

Tgt Ion:228 Resp: 1336392
Ion Ratio Lower Upper
228 100
226 30.8 24.1 36.1
229 21.0 16.0 24.0





#86

Indeno(1,2,3-cd)pyrene

Concen: 10.038 ng

RT: 25.83 min Scan# 3866

Delta R.T. -0.04 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

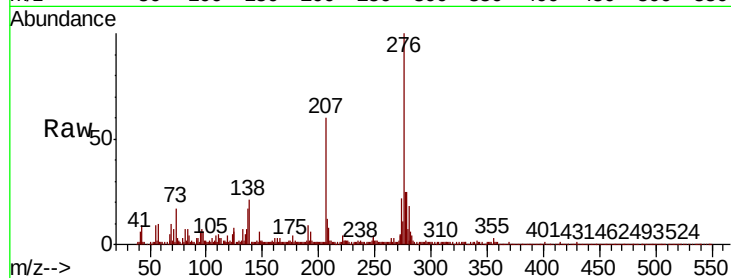
Tgt Ion:276 Resp: 606558

Ion Ratio Lower Upper

276 100

138 21.2 20.2 30.4

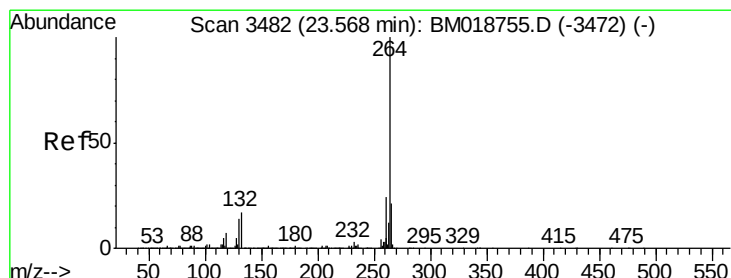
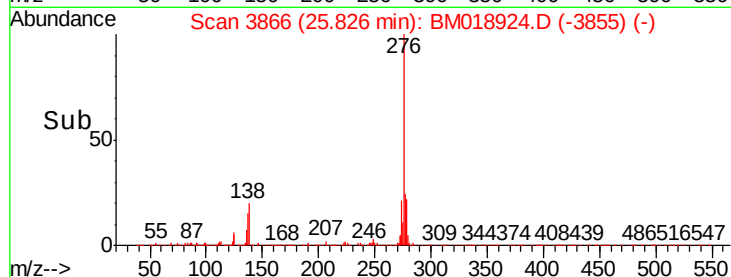
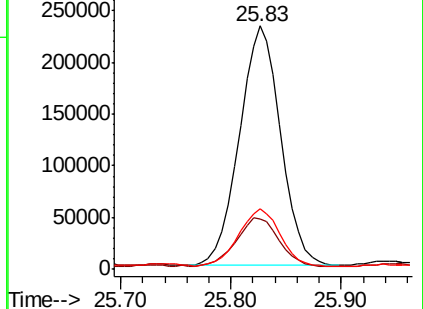
277 24.6 20.3 30.5



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

Perylene-d12

Concen: 20.000 ng

RT: 23.55 min Scan# 3479

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

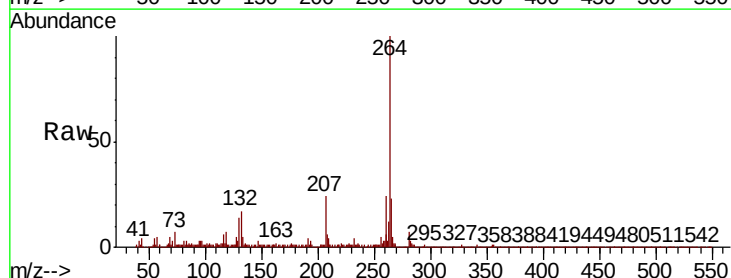
Tgt Ion:264 Resp: 1046170

Ion Ratio Lower Upper

264 100

260 23.5 18.9 28.3

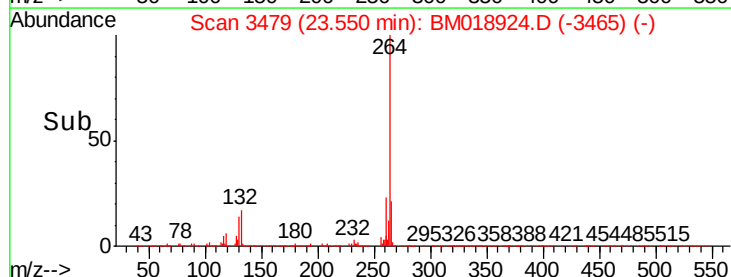
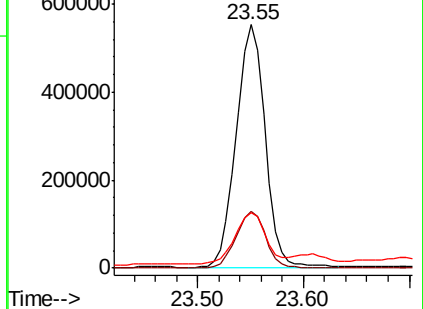
265 22.9 17.3 25.9

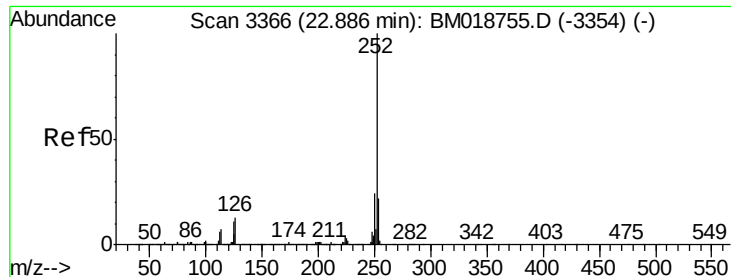


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 26.996 ng

RT: 22.87 min Scan# 3364

Delta R.T. -0.01 min

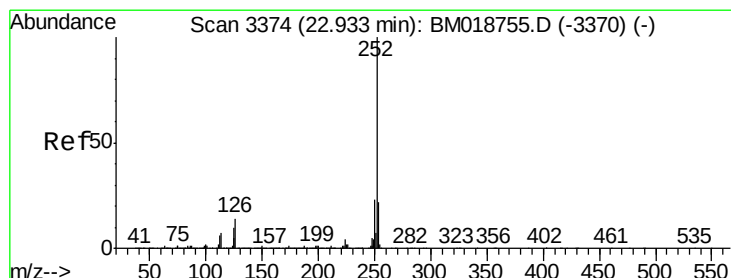
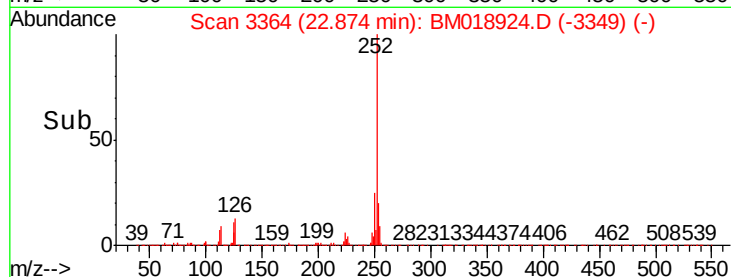
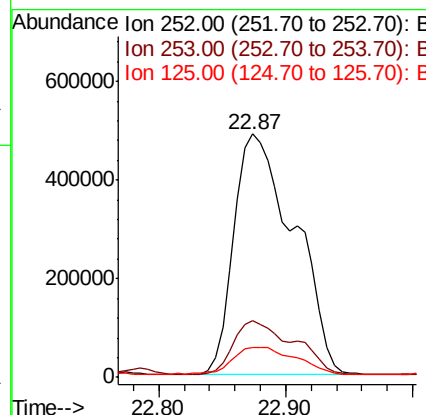
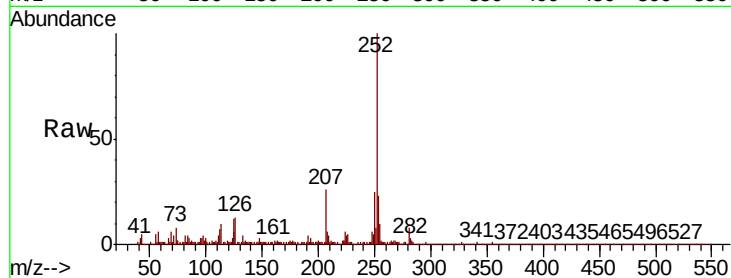
Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :
BNA_M
ClientSampleId :
TP-26

Tgt Ion:252 Resp: 1615852

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	12.3	8.6	12.8



#89

Benzo(k)fluoranthene

Concen: 27.190 ng

RT: 22.87 min Scan# 3364

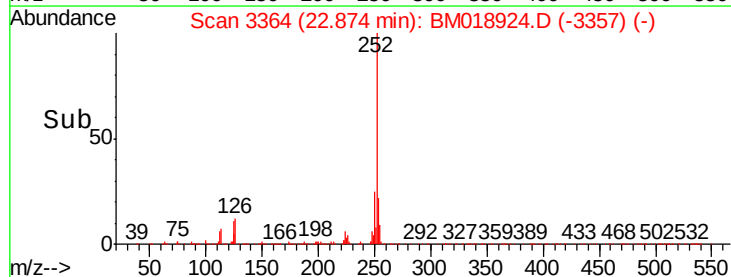
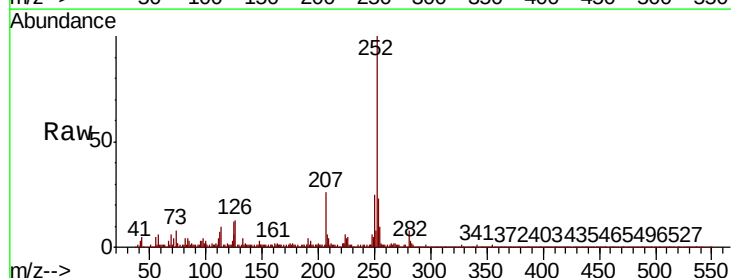
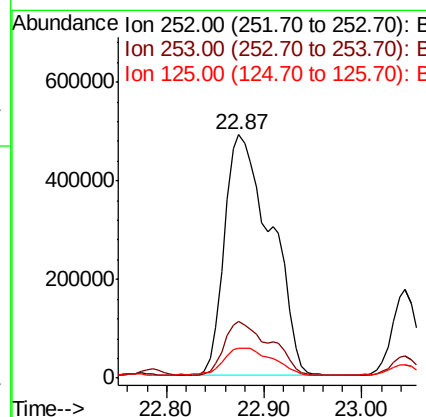
Delta R.T. -0.06 min

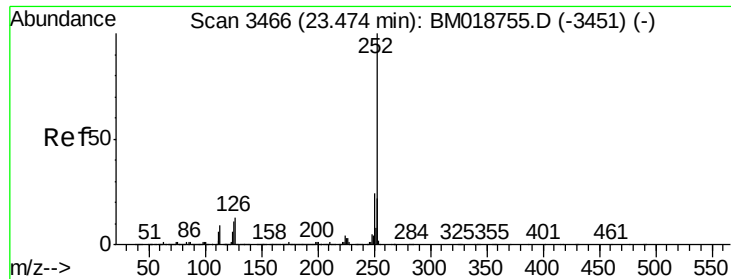
Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Tgt Ion:252 Resp: 1620217

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	12.3	8.2	12.4





#90

Benzo(a)pyrene

Concen: 20.841 ng

RT: 23.45 min Scan# 3462

Delta R.T. -0.02 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

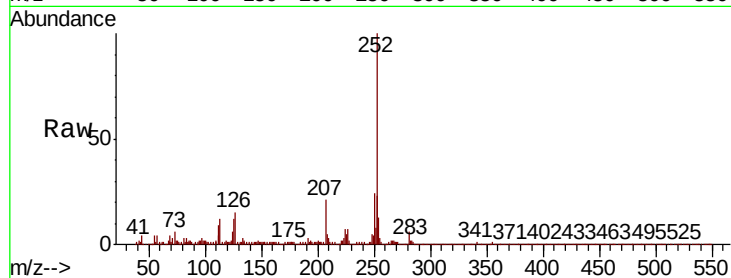
Tgt Ion:252 Resp: 1181715

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

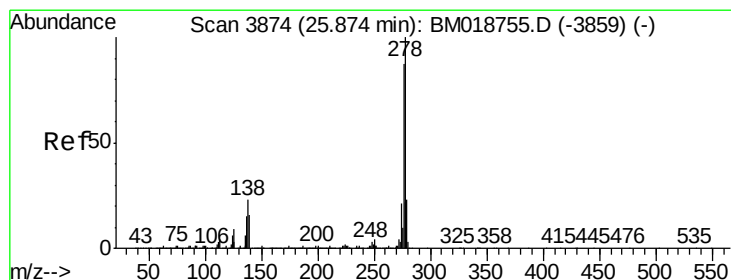
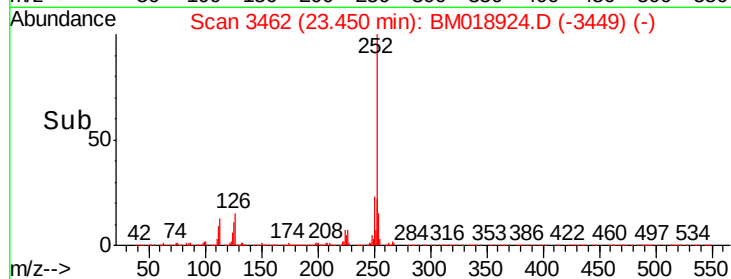
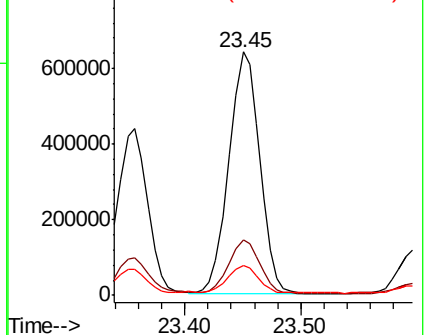
125 12.2 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 3.397 ng

RT: 25.83 min Scan# 3867

Delta R.T. -0.04 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

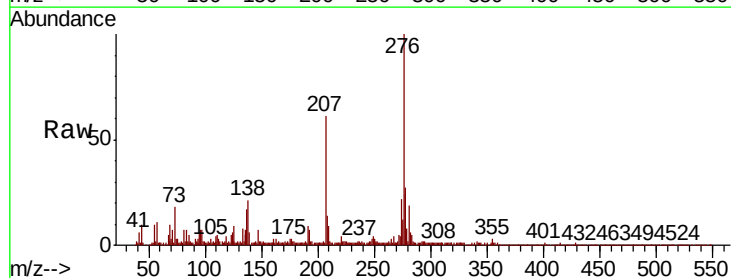
Tgt Ion:278 Resp: 190853

Ion Ratio Lower Upper

278 100

139 21.9 12.6 18.8#

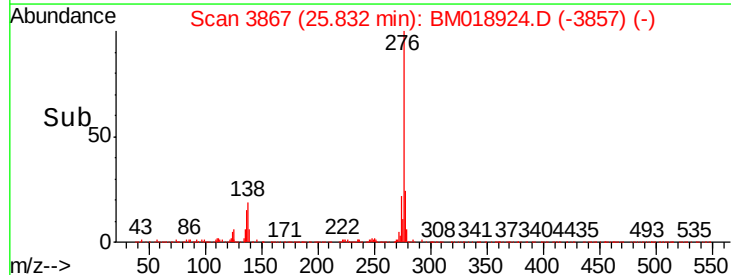
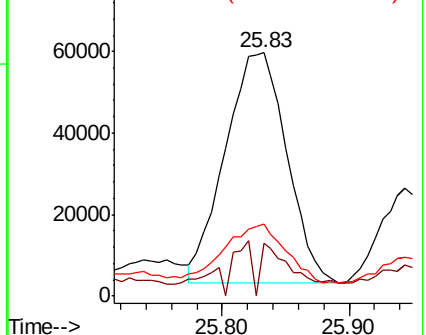
279 29.4 18.6 28.0#

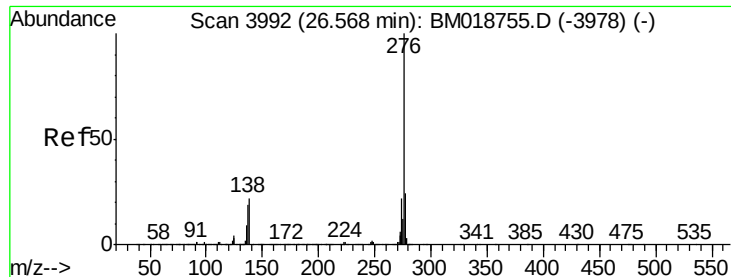


Abundance Ion 278.00 (277.70 to 278.70): E

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: 12.707 ng

RT: 26.53 min Scan# 3986

Delta R.T. -0.04 min

Lab File: BM018924.D

Acq: 25 Feb 2019 21:35

Instrument :

BNA_M

ClientSampleId :

TP-26

Tgt Ion: 276 Resp: 664555

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 20.8 17.3 25.9

