

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN082319\
 Data File : BN007355.D
 Acq On : 24 Aug 2019 08:14
 Operator : HP/JU
 Sample : K4239-17 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519DL

Quant Time: Aug 24 22:49:05 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 24 00:38:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	5950	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	25318	0.40	ng	-0.01
13) Acenaphthene-d10	14.05	164	14354	0.40	ng	0.00
19) Phenanthrene-d10	16.79	188	31296	0.40	ng	0.00
27) Chrysene-d12	21.02	240	30209	0.40	ng	0.00
34) Perylene-d12	23.13	264	34587	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.04	112	560	-0.00	ng	0.00
5) Phenol-d6	6.59	99	699	-0.00	ng	0.00
8) Nitrobenzene-d5	8.53	82	616	0.03	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	1055	0.03	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	183	0.02	ng	0.00
15) 2-Fluorobiphenyl	12.66	172	1396	0.02	ng	0.00
25) Fluoranthene-d10	18.84	212	2501	0.02	ng	0.00
29) Terphenyl-d14	19.46	244	1988	0.03	ng	0.00

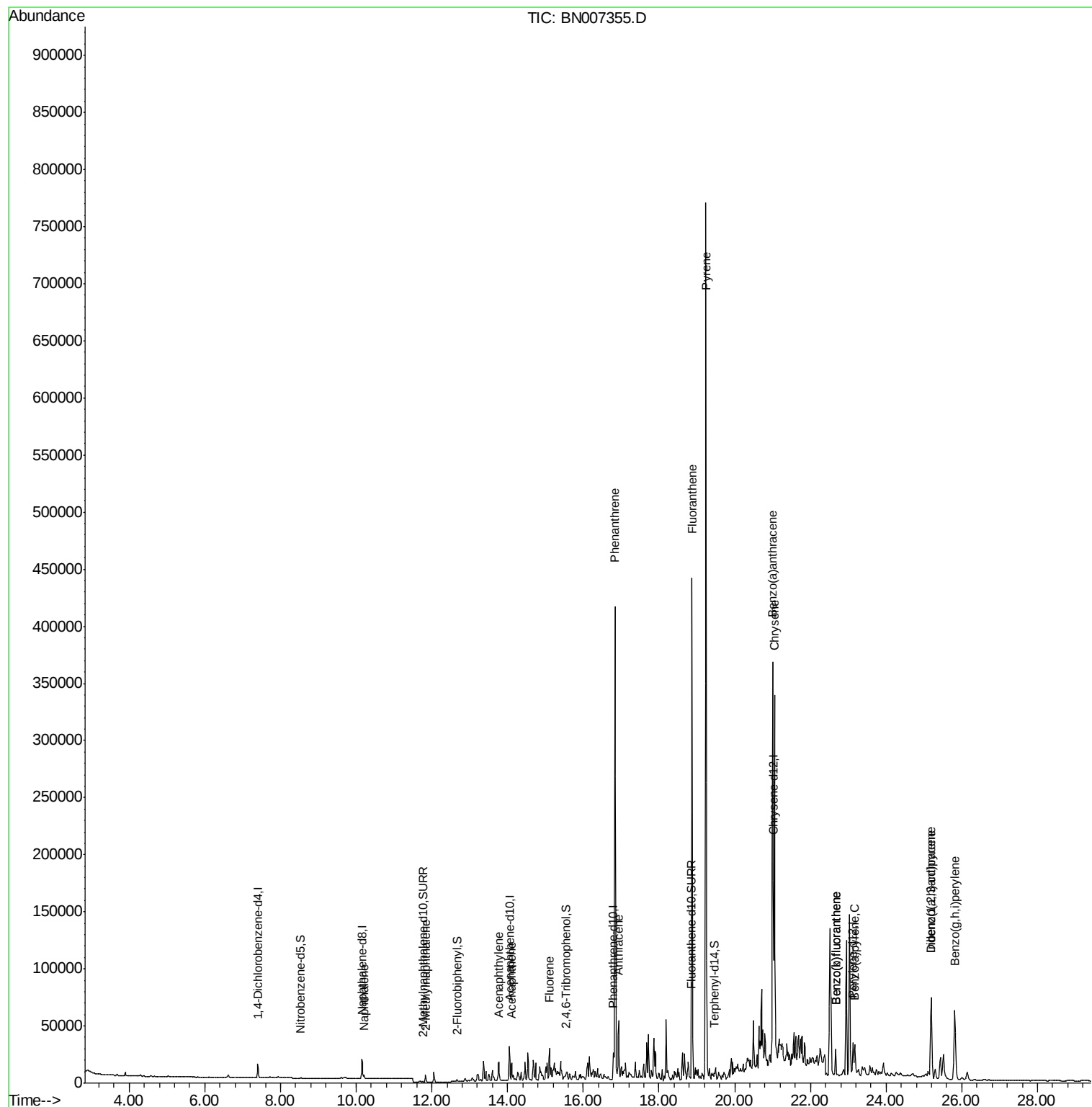
Target Compounds				Qvalue		
9) Naphthalene	10.20	128	3855	0.053	ng	# 94
12) 2-Methylnaphthalene	11.83	142	5040	0.102	ng	99
16) Acenaphthylene	13.76	152	19033	0.224	ng	# 96
17) Acenaphthene	14.11	154	8202	0.165	ng	95
18) Fluorene	15.10	166	14888	0.237	ng	# 85
23) Phenanthrene	16.84	178	408692	4.341	ng	99
24) Anthracene	16.93	178	52418	0.554	ng	98
26) Fluoranthene	18.87	202	392626	3.248	ng	98
28) Pyrene	19.24	202	695459	5.723	ng	97
30) Benzo(a)anthracene	21.00	228	289655	2.441	ng	96
31) Chrysene	21.06	228	299760	2.618	ng	99
33) Indeno(1,2,3-cd)pyrene	25.19	276	98929	0.717	ng	97
35) Benzo(b)fluoranthene	22.67	252	27056	0.216	ng	95
36) Benzo(k)fluoranthene	22.67	252	27230	0.220	ng	94
37) Benzo(a)pyrene	23.17	252	30545	0.256	ng	96
38) Dibenzo(a,h)anthracene	25.19	278	34026	0.286	ng	# 92
39) Benzo(g,h,i)perylene	25.81	276	121457	1.024	ng	97

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN082319\
Data File : BN007355.D
Acq On : 24 Aug 2019 08:14
Operator : HP/JU
Sample : K4239-17 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519DL

Quant Time: Aug 24 22:49:05 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 24 00:38:17 2019
Response via : Initial Calibration



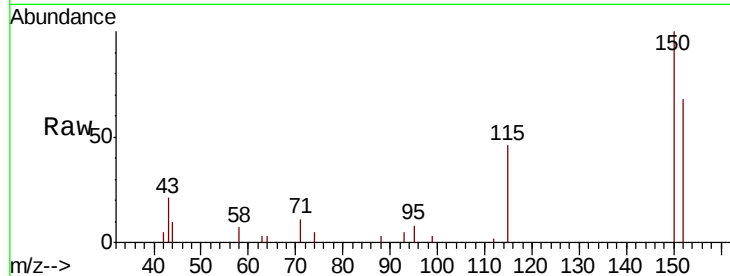


#1

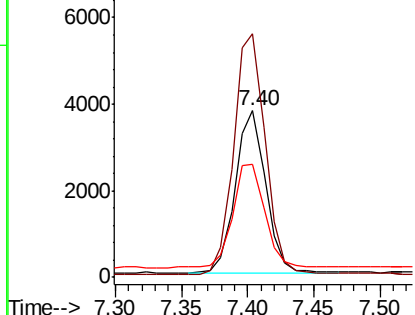
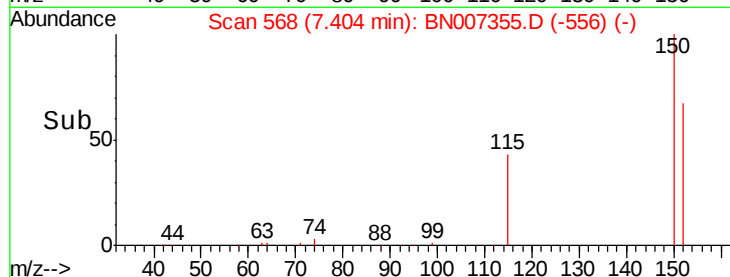
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.40 min Scan# 568
Delta R.T. -0.00 min
Lab File: BN007355.D
Acq: 24 Aug 2019 08:14

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519DL

Tgt Ion:152 Resp: 5950
Ion Ratio Lower Upper
152 100
150 146.2 109.1 163.7
115 68.0 59.6 89.4



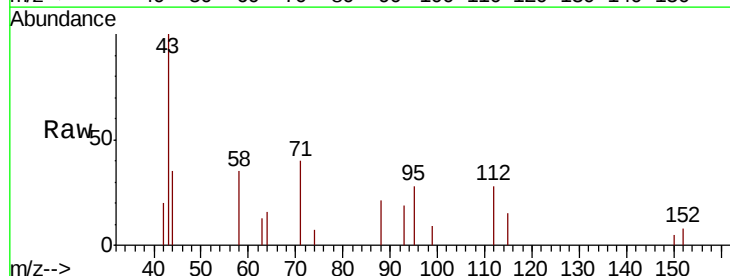
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



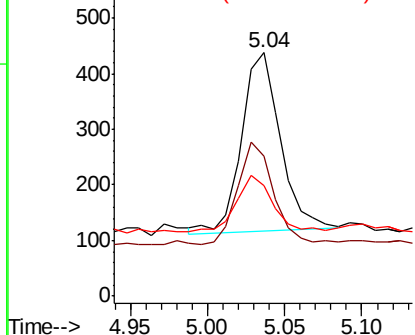
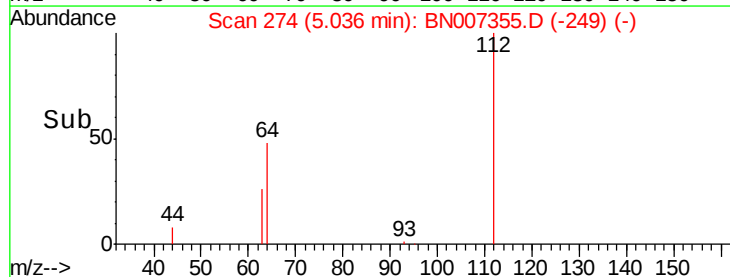
#4

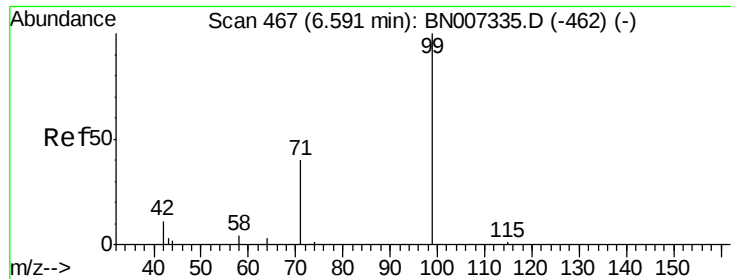
2-Fluorophenol
Concen: -0.001 ng
RT: 5.04 min Scan# 274
Delta R.T. 0.00 min
Lab File: BN007355.D
Acq: 24 Aug 2019 08:14

Tgt Ion:112 Resp: 560
Ion Ratio Lower Upper
112 100
64 54.5 42.3 63.5
63 30.9 23.6 35.4



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





#5

Phenol-d6

Concen: -0.004 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

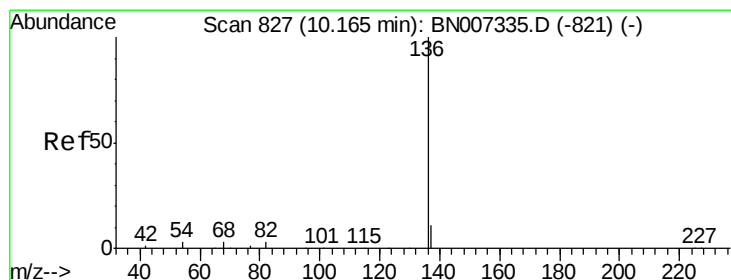
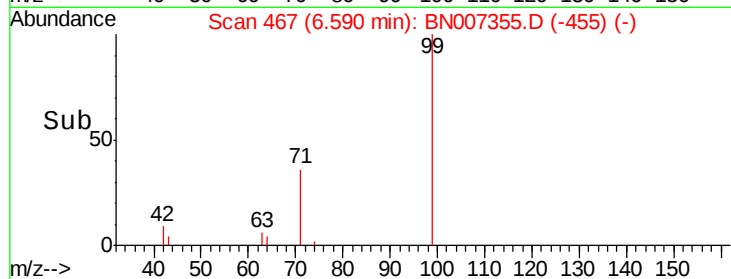
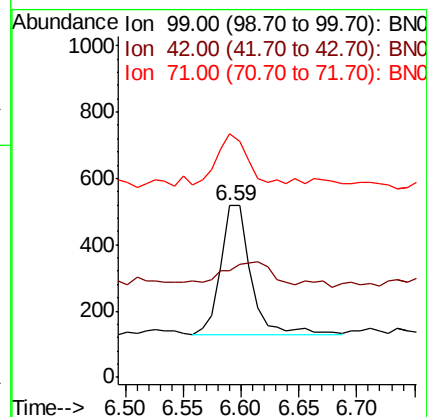
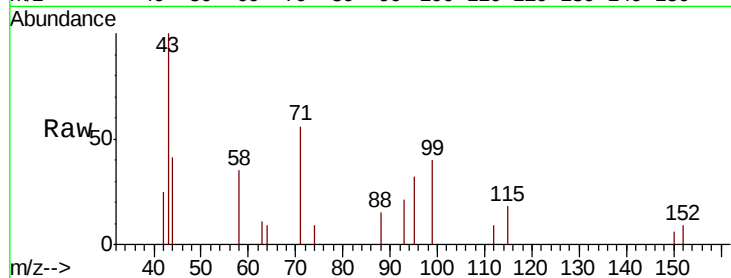
Tgt Ion: 99 Resp: 699

Ion Ratio Lower Upper

99 100

42 0.0 11.2 16.8#

71 45.1 31.8 47.8



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Tgt Ion: 136 Resp: 25318

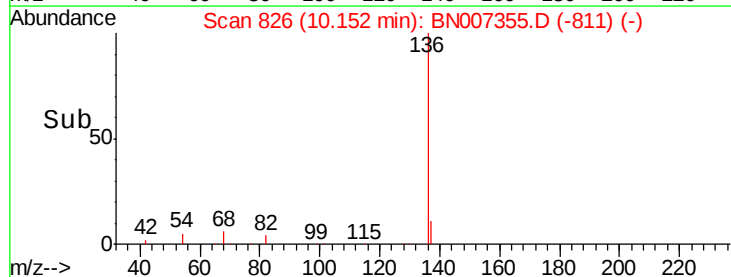
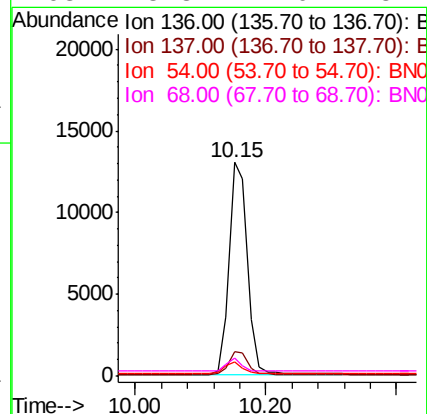
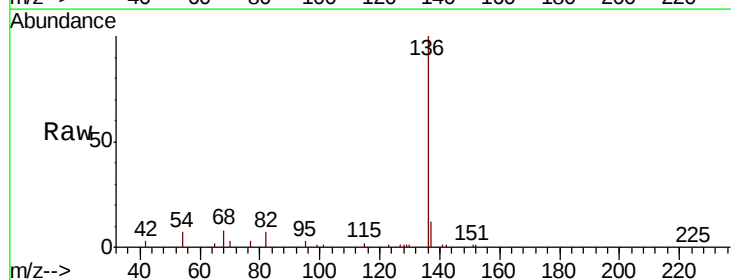
Ion Ratio Lower Upper

136 100

137 11.5 12.9 19.3#

54 6.5 8.6 12.8#

68 8.3 17.0 25.4#





#8

Nitrobenzene-d5

Concen: 0.028 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

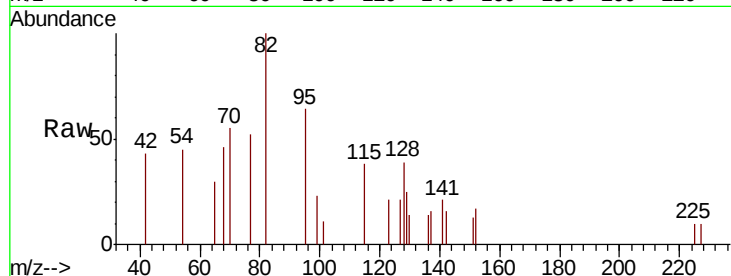
Tgt Ion: 82 Resp: 616

Ion Ratio Lower Upper

82 100

128 38.9 19.7 29.5#

54 44.6 25.8 38.6#



Abundance Ion 82.00 (81.70 to 82.70): BN007335.D (-695) (-)

Ion 128.00 (127.70 to 128.70): BN007335.D (-695) (-)

Ion 54.00 (53.70 to 54.70): BN007335.D (-695) (-)

8.53

600

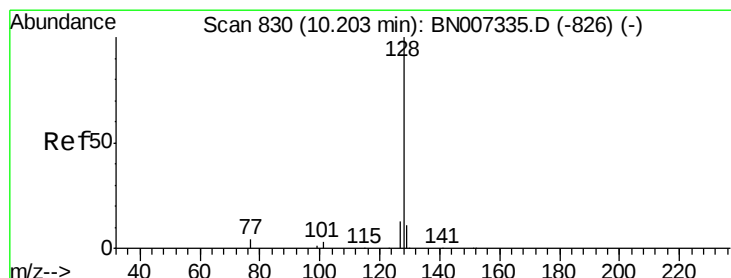
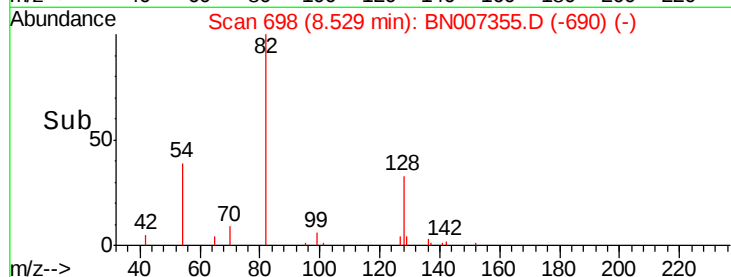
400

200

0

8.40 8.45 8.50 8.55 8.60

Time-->



#9

Naphthalene

Concen: 0.053 ng

RT: 10.20 min Scan# 830

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

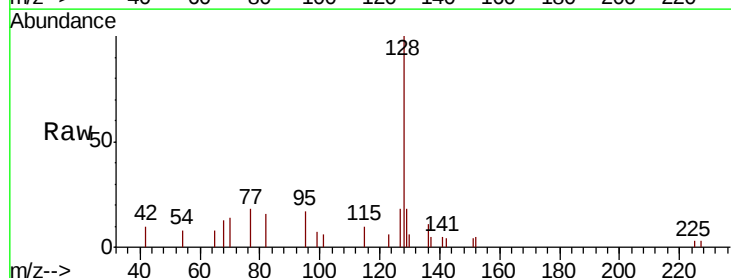
Tgt Ion: 128 Resp: 3855

Ion Ratio Lower Upper

128 100

129 17.7 11.1 16.7#

127 18.0 15.5 23.3



Abundance Ion 128.00 (127.70 to 128.70): BN007335.D (-826) (-)

Ion 129.00 (128.70 to 129.70): BN007335.D (-826) (-)

Ion 127.00 (126.70 to 127.70): BN007335.D (-826) (-)

10.20

3000

2500

2000

1500

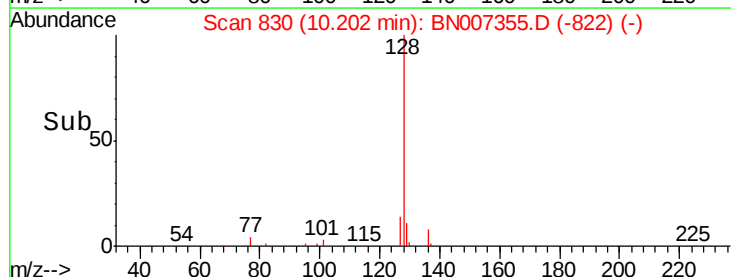
1000

500

0

10.00 10.20 10.40

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.025 ng

RT: 11.76 min Scan# 990

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

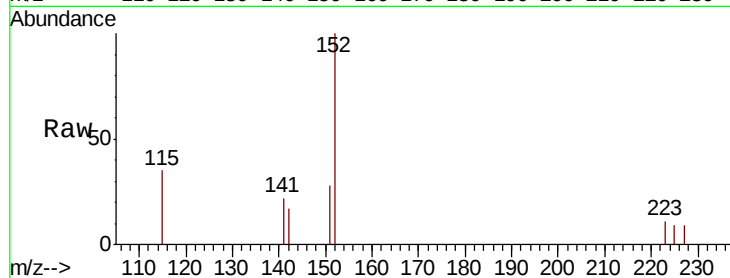
EXT-034-SW092-080519DL

Tgt Ion:152 Resp: 1055

Ion Ratio Lower Upper

152 100

151 23.1 16.2 24.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.76

800

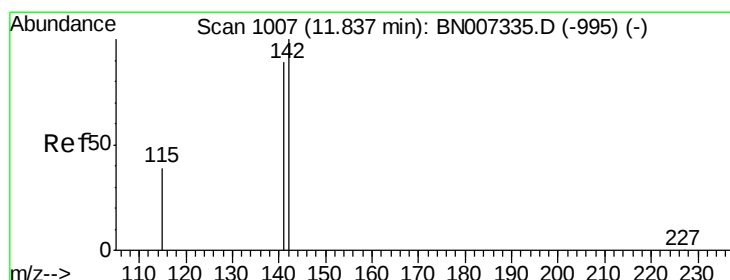
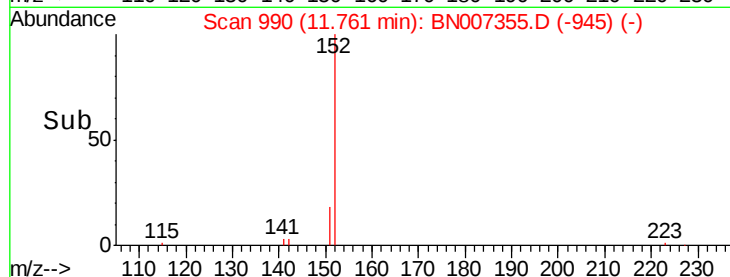
600

400

200

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.102 ng

RT: 11.83 min Scan# 1006

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

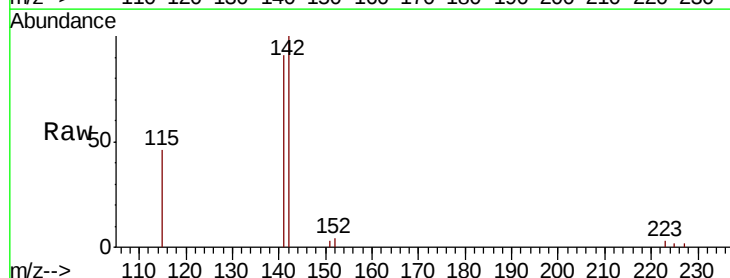
Tgt Ion:142 Resp: 5040

Ion Ratio Lower Upper

142 100

141 90.7 72.8 109.2

115 46.0 35.2 52.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.83

4000

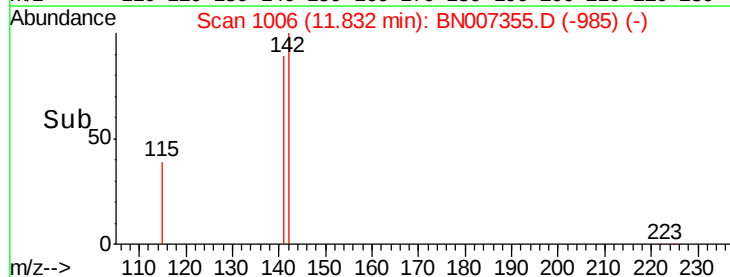
3000

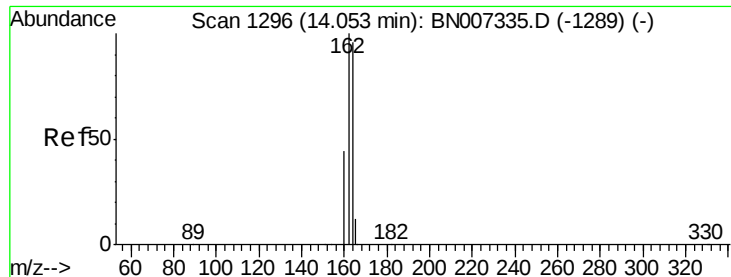
2000

1000

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

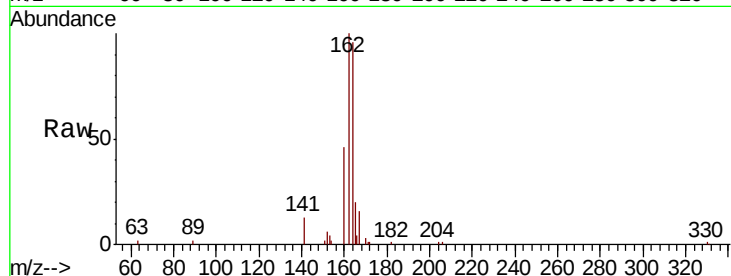
Tgt Ion:164 Resp: 14354

Ion Ratio Lower Upper

164 100

162 104.2 83.5 125.3

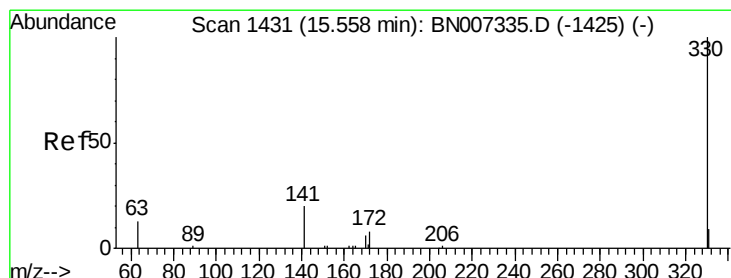
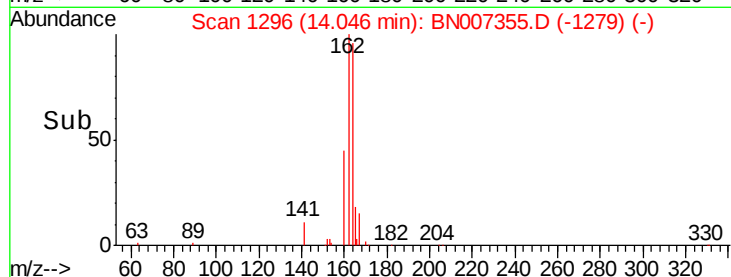
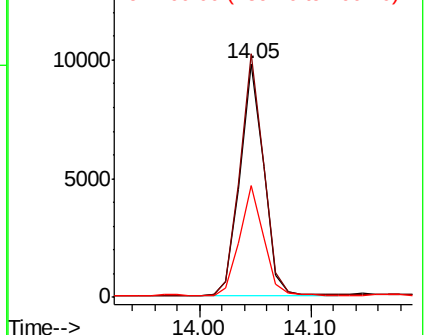
160 47.7 38.2 57.4



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



#14

2,4,6-Tribromophenol

Concen: 0.024 ng

RT: 15.55 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

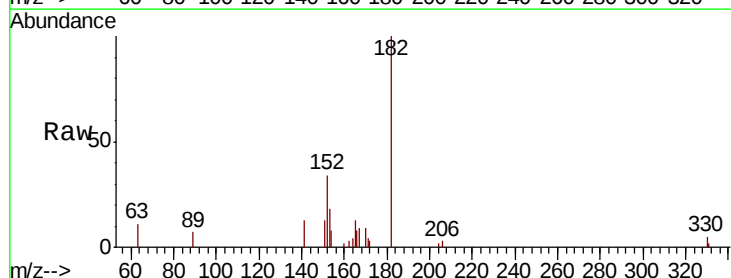
Tgt Ion:330 Resp: 183

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

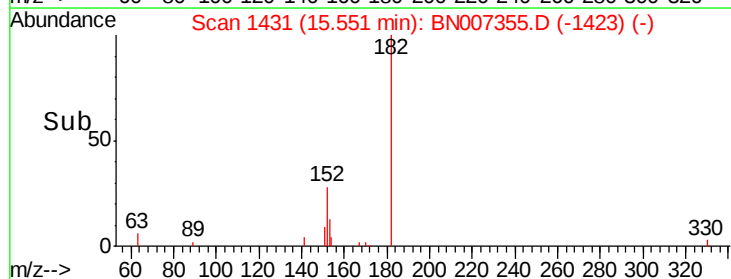
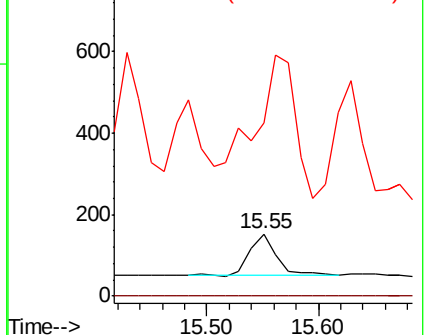
141 500.0 26.9 40.3#



Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

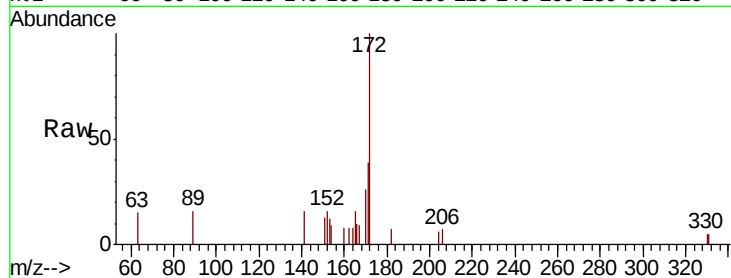




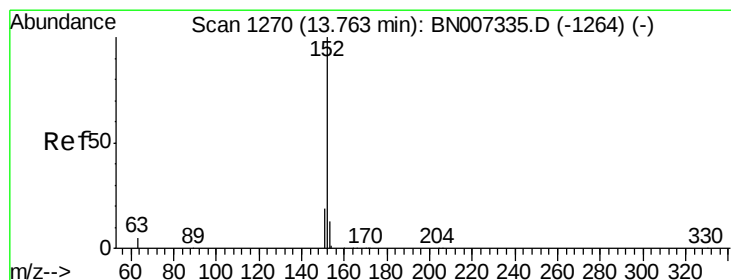
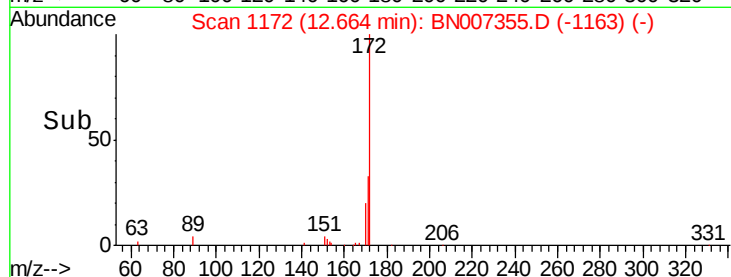
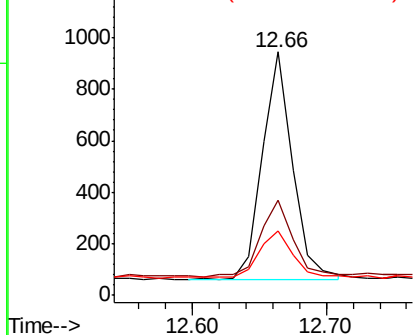
#15
2-Fluorobiphenyl
Concen: 0.024 ng
RT: 12.66 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007355.D
Acq: 24 Aug 2019 08:14

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519DL

Tgt Ion:172 Resp: 1396
Ion Ratio Lower Upper
172 100
171 39.0 30.3 45.5
170 26.4 20.7 31.1

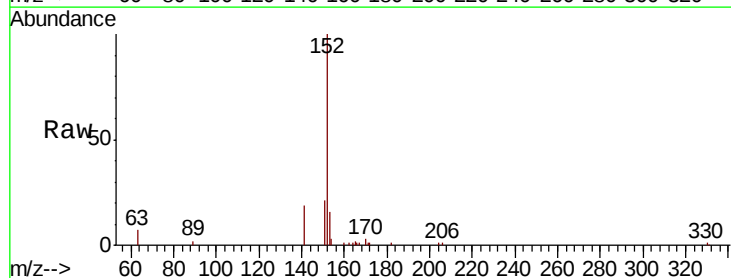


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

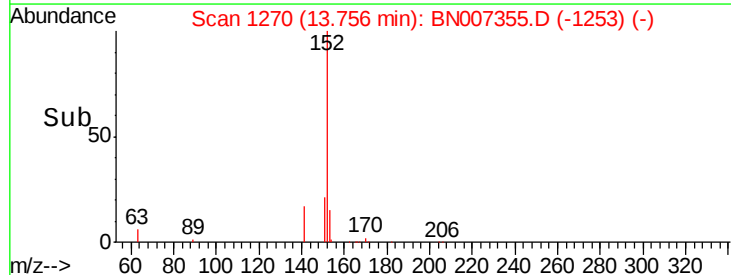
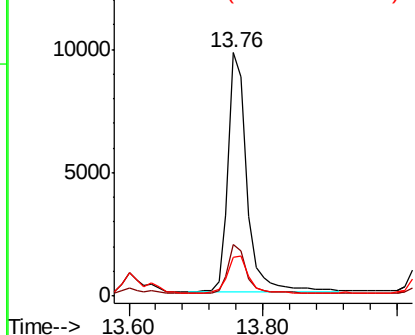


#16
Acenaphthylene
Concen: 0.224 ng
RT: 13.76 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BN007355.D
Acq: 24 Aug 2019 08:14

Tgt Ion:152 Resp: 19033
Ion Ratio Lower Upper
152 100
151 20.2 16.1 24.1
153 17.1 10.6 15.8#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

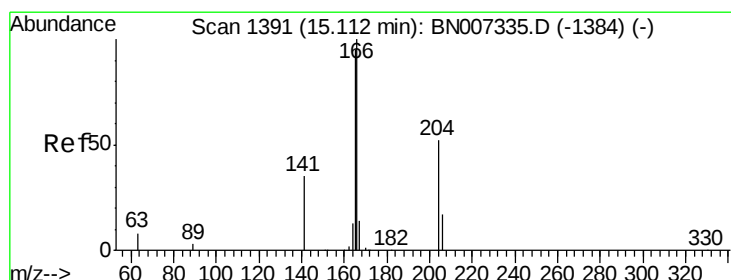
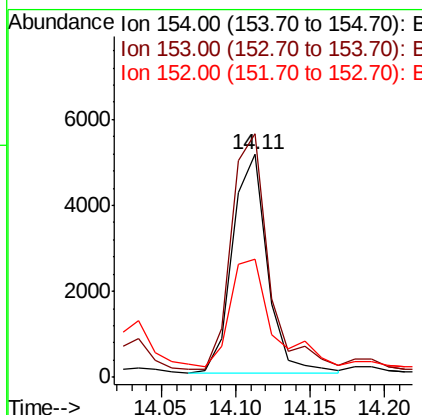
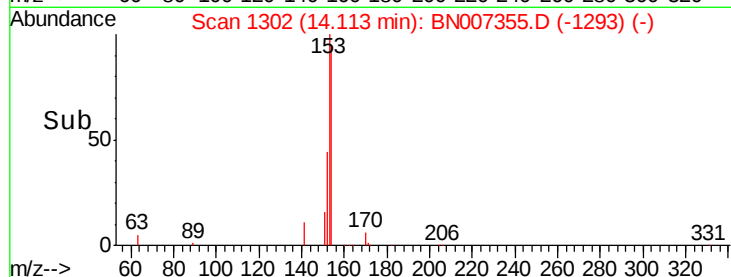
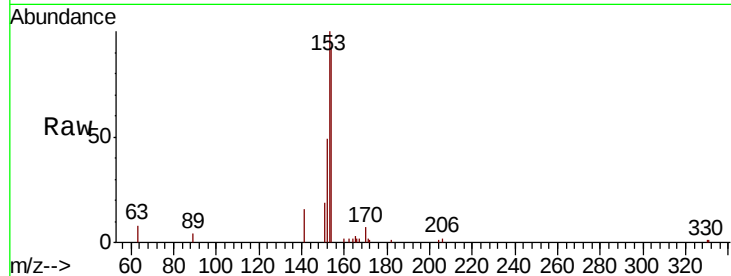




#17
Acenaphthene
Concen: 0.165 ng
RT: 14.11 min Scan# 1302
Delta R.T. 0.00 min
Lab File: BN007355.D
Acq: 24 Aug 2019 08:14

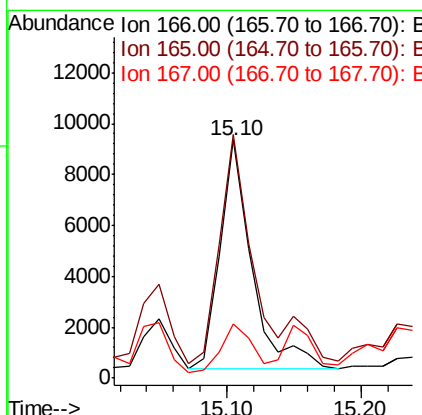
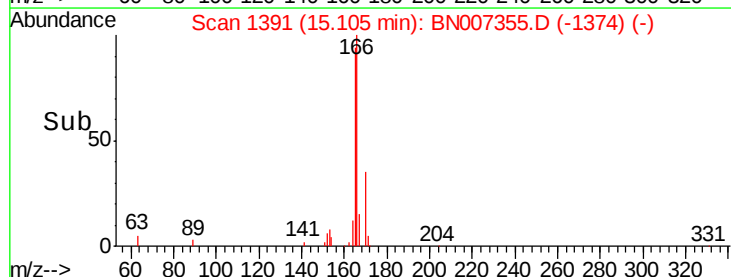
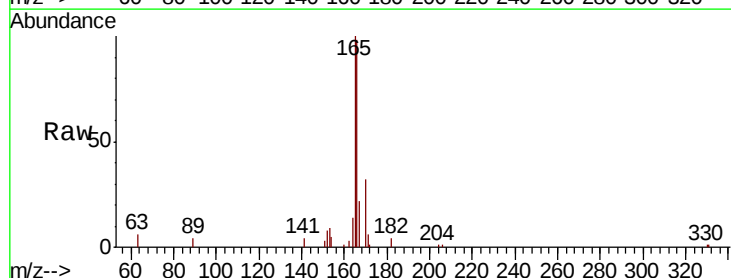
Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519DL

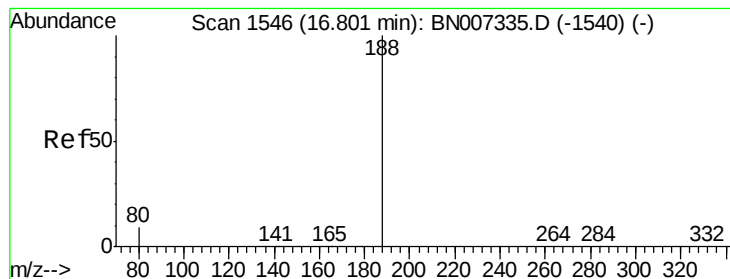
Tgt Ion:154 Resp: 8202
Ion Ratio Lower Upper
154 100
153 116.6 92.8 139.2
152 64.5 43.8 65.8



#18
Fluorene
Concen: 0.237 ng
RT: 15.10 min Scan# 1391
Delta R.T. -0.01 min
Lab File: BN007355.D
Acq: 24 Aug 2019 08:14

Tgt Ion:166 Resp: 14888
Ion Ratio Lower Upper
166 100
165 112.7 79.0 118.4
167 20.3 10.6 15.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.79 min Scan# 1546

Delta R.T. -0.01 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

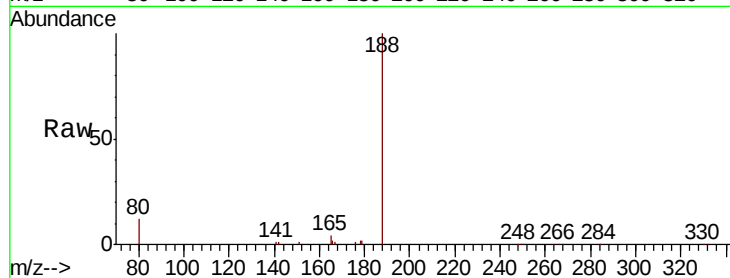
Tgt Ion:188 Resp: 31296

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 11.8 17.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC

25000

20000

15000

10000

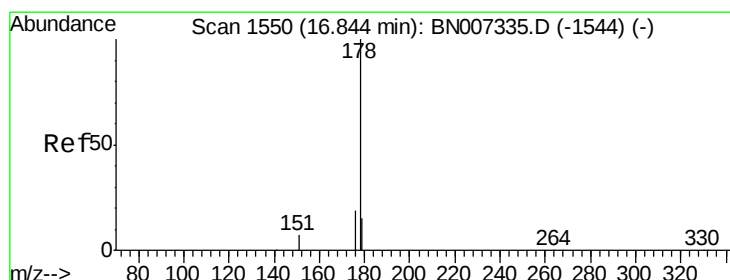
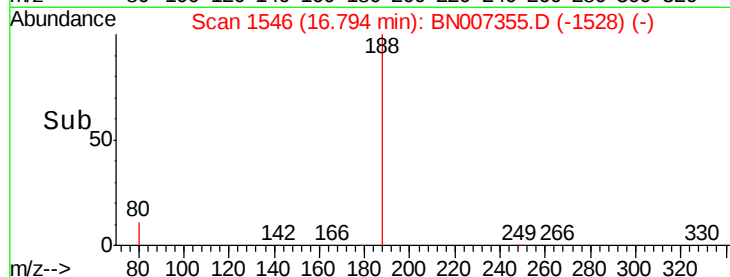
5000

0

16.79

16.70 16.80 16.90

Time-->



#23

Phenanthrene

Concen: 4.341 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

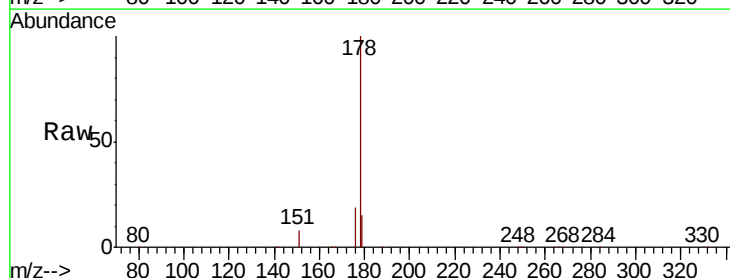
Tgt Ion:178 Resp: 408692

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

179 15.5 12.6 19.0



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

400000

300000

200000

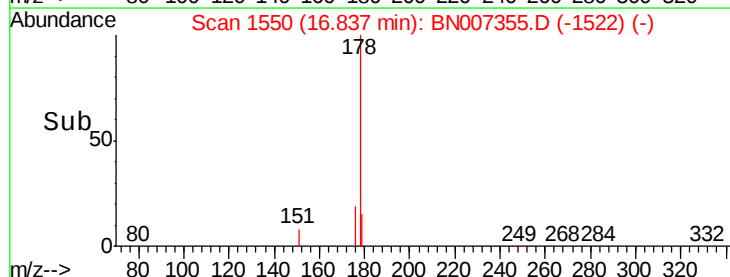
100000

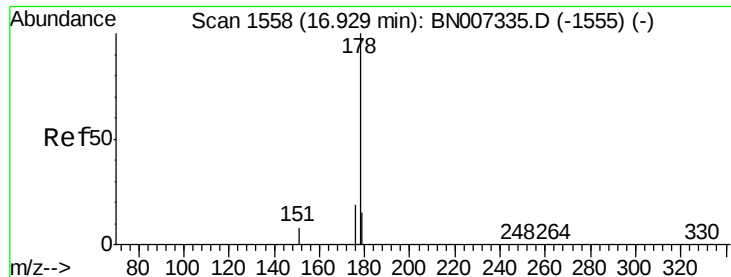
0

16.84

16.70 16.80 16.90

Time-->





#24

Anthracene

Concen: 0.554 ng

RT: 16.93 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

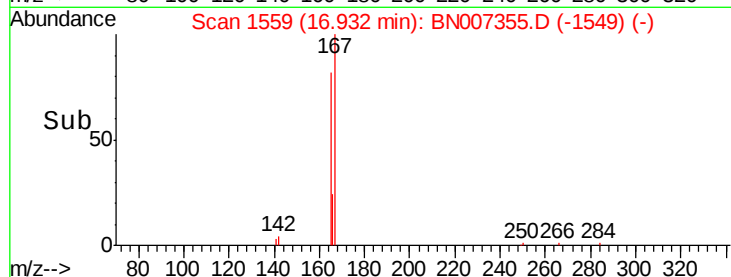
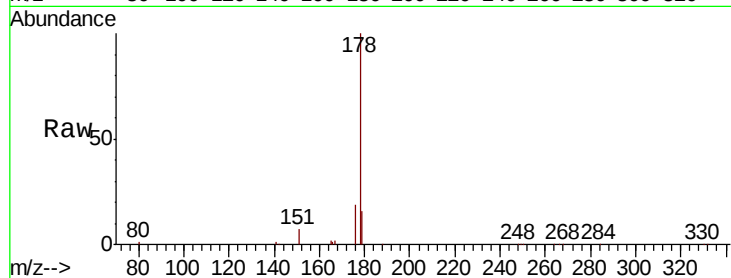
Tgt Ion:178 Resp: 52418

Ion Ratio Lower Upper

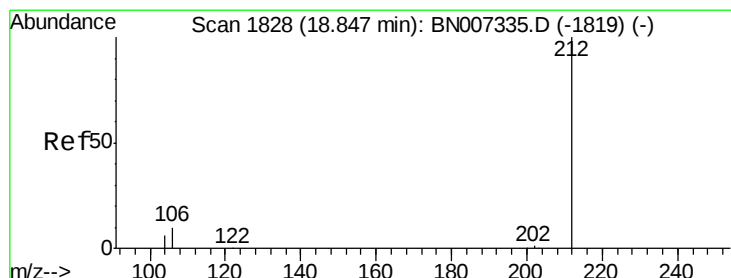
178 100

176 18.6 14.9 22.3

179 17.3 12.4 18.6



Time-->



#25

Fluoranthene-d10

Concen: 0.025 ng

RT: 18.84 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

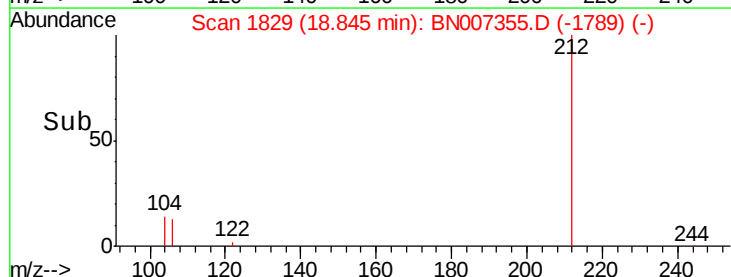
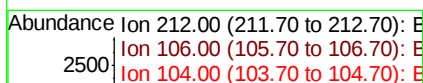
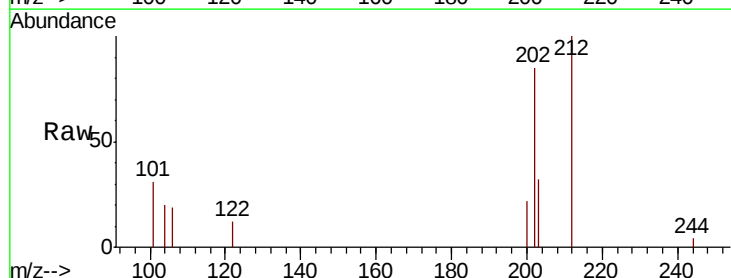
Tgt Ion:212 Resp: 2501

Ion Ratio Lower Upper

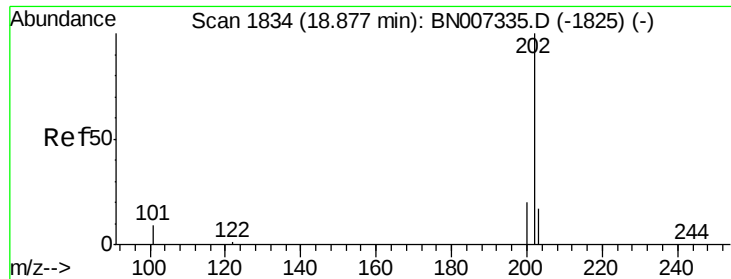
212 100

106 10.2 9.0 13.4

104 13.0 5.4 8.2#



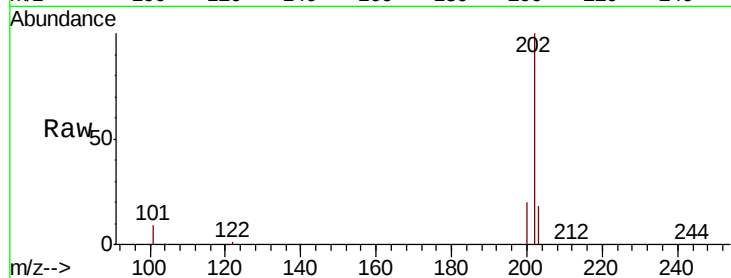
Time-->



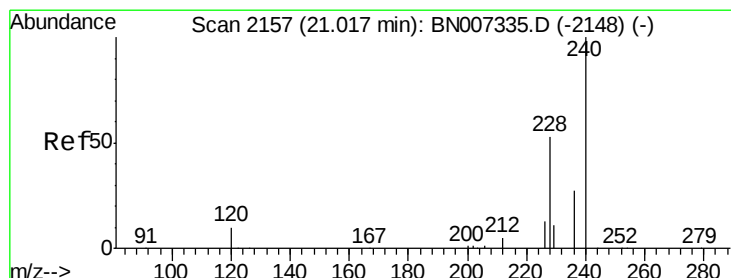
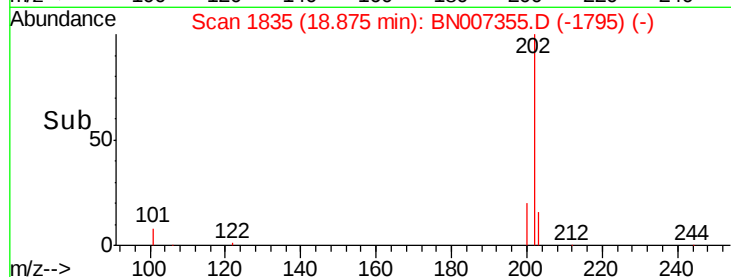
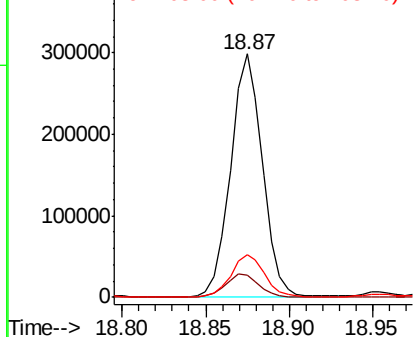
#26
 Fluoranthene
 Concen: 3.248 ng
 RT: 18.87 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: BN007355.D
 Acq: 24 Aug 2019 08:14

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519DL

Tgt Ion: 202 Resp: 392626
 Ion Ratio Lower Upper
 202 100
 101 9.6 7.7 11.5
 203 18.1 13.7 20.5

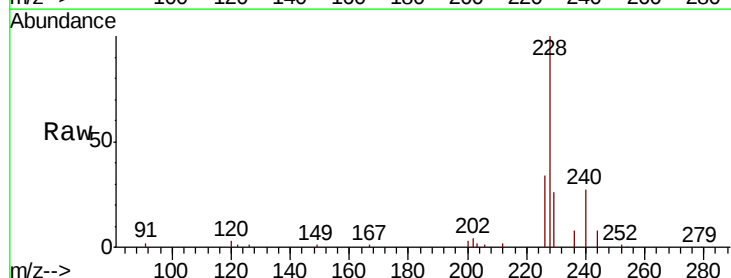


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

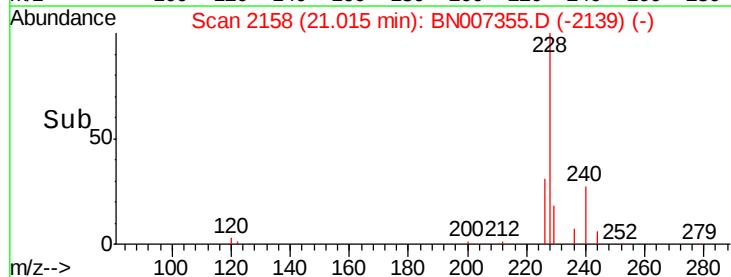
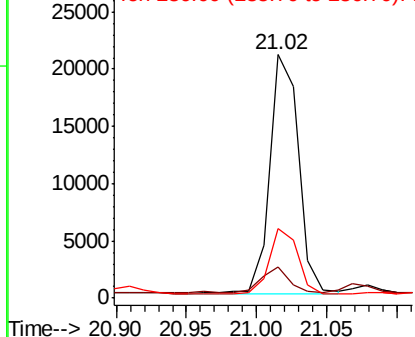


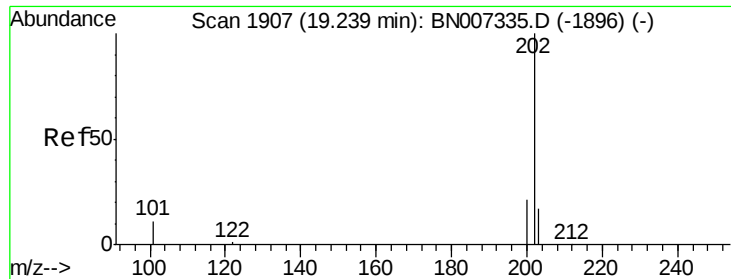
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.02 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BN007355.D
 Acq: 24 Aug 2019 08:14

Tgt Ion: 240 Resp: 30209
 Ion Ratio Lower Upper
 240 100
 120 12.8 9.6 14.4
 236 28.5 22.2 33.2



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

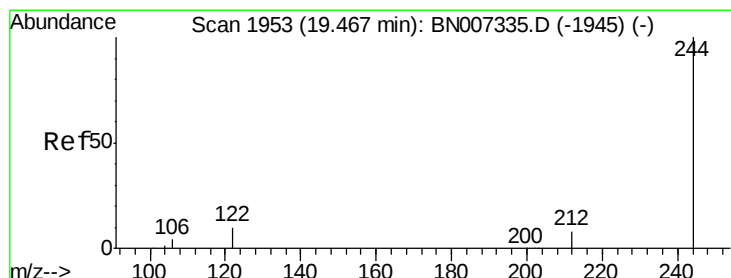
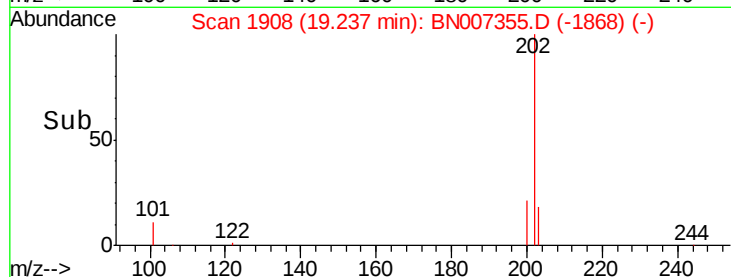
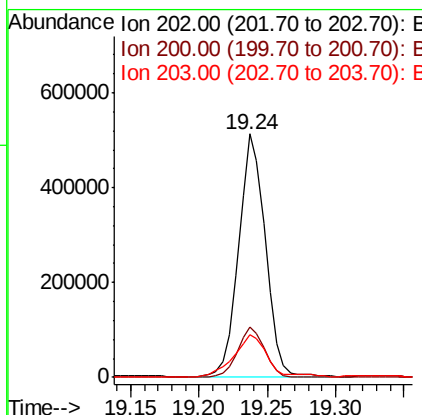
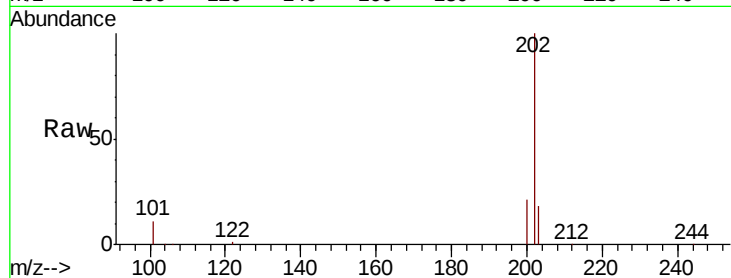




#28
 Pyrene
 Concen: 5.723 ng
 RT: 19.24 min Scan# 1908
 Delta R.T. -0.00 min
 Lab File: BN007355.D
 Acq: 24 Aug 2019 08:14

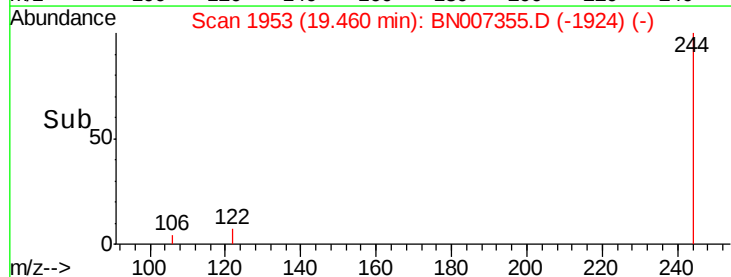
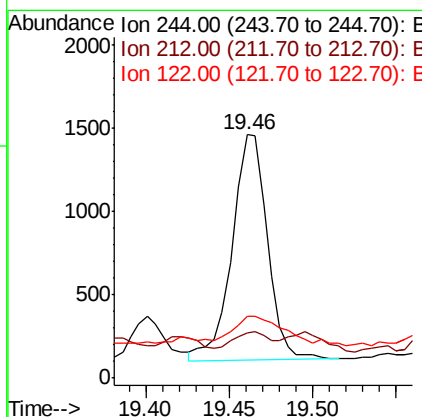
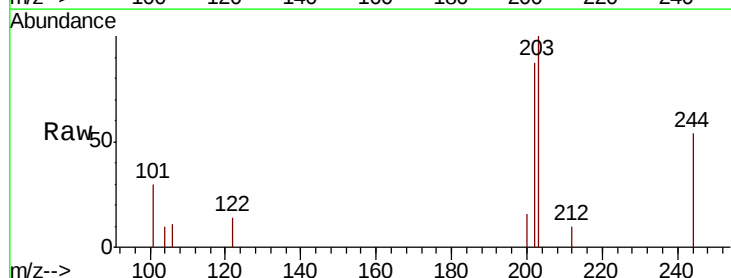
Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519DL

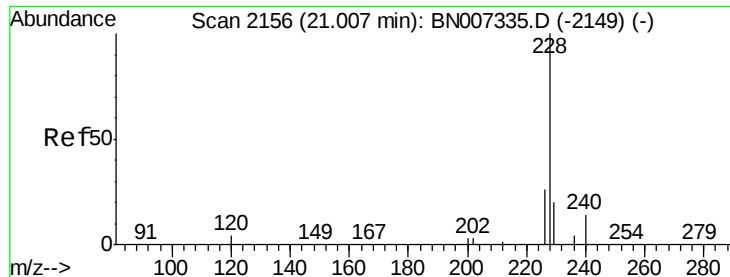
Tgt Ion: 202 Resp: 695459
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.6 25.0
 203 20.6 14.2 21.4



#29
 Terphenyl-d14
 Concen: 0.025 ng
 RT: 19.46 min Scan# 1953
 Delta R.T. -0.01 min
 Lab File: BN007355.D
 Acq: 24 Aug 2019 08:14

Tgt Ion: 244 Resp: 1988
 Ion Ratio Lower Upper
 244 100
 212 18.5 7.0 10.6#
 122 25.3 9.6 14.4#





#30

Benzo(a)anthracene

Concen: 2.441 ng

RT: 21.00 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

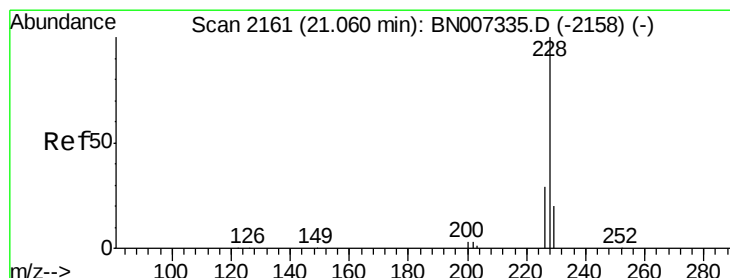
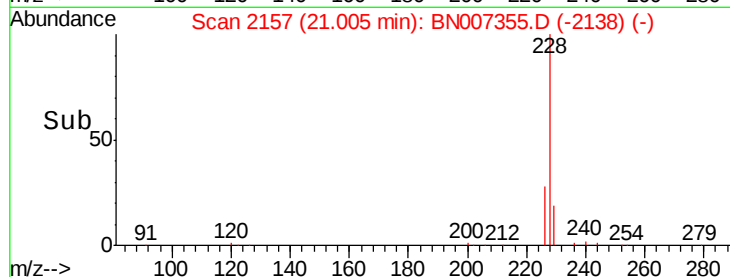
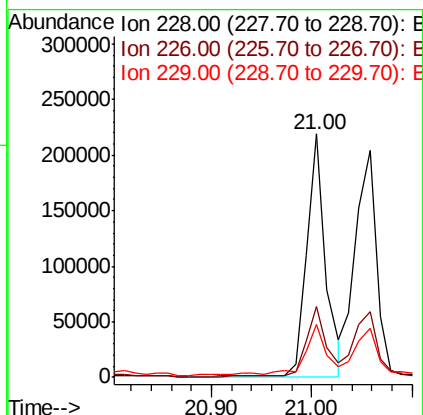
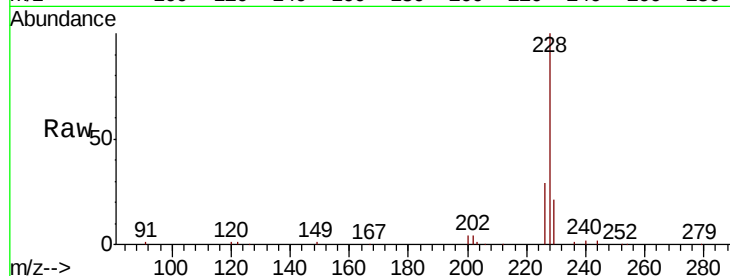
Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

Tgt Ion:	228	Resp:	289655
Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.3	31.9
229	21.5	16.1	24.1



#31

Chrysene

Concen: 2.618 ng

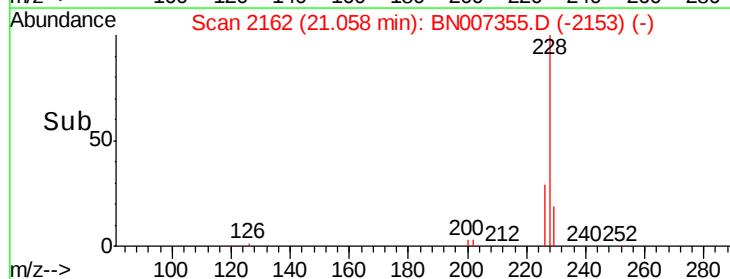
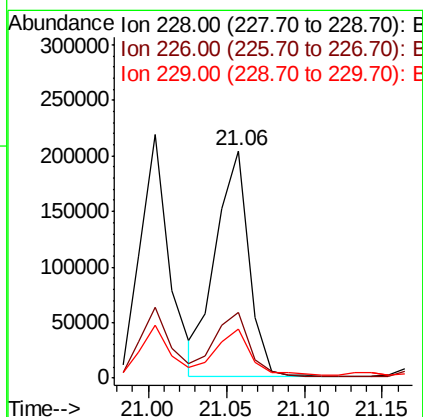
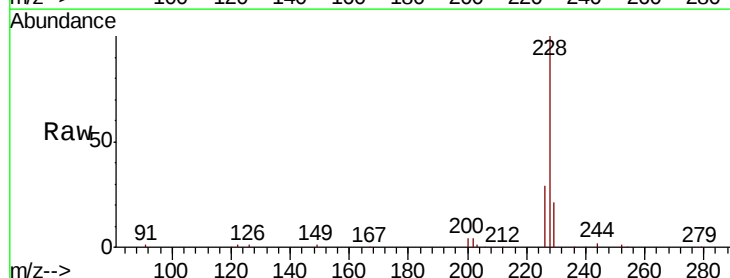
RT: 21.06 min Scan# 2162

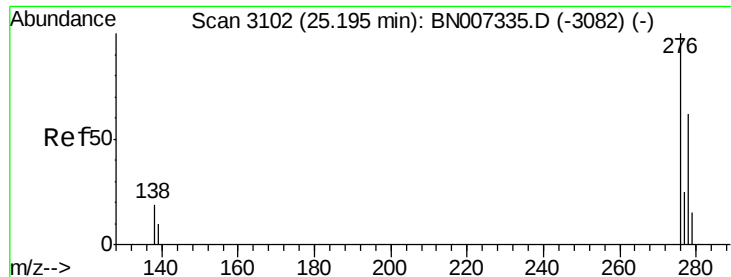
Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Tgt Ion:	228	Resp:	299760
Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.5	35.3
229	21.5	16.6	24.8





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.717 ng

RT: 25.19 min Scan# 3102

Delta R.T. -0.01 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

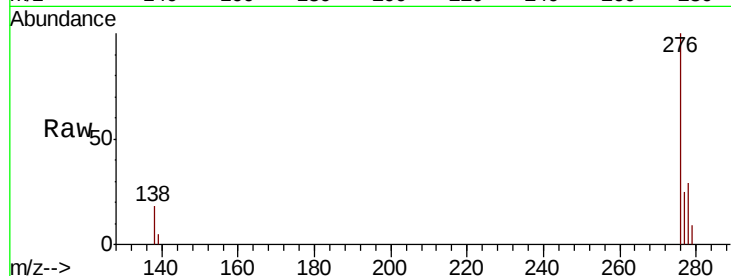
Tgt Ion:276 Resp: 98929

Ion Ratio Lower Upper

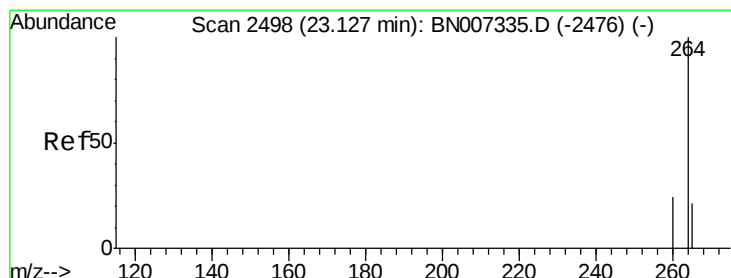
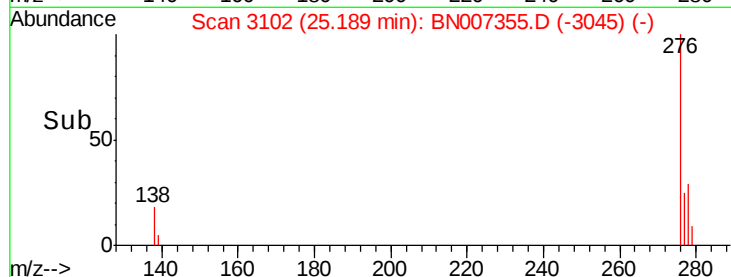
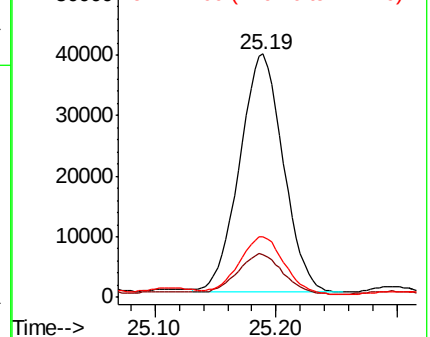
276 100

138 17.5 15.1 22.7

277 25.8 19.7 29.5



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.13 min Scan# 2499

Delta R.T. -0.00 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

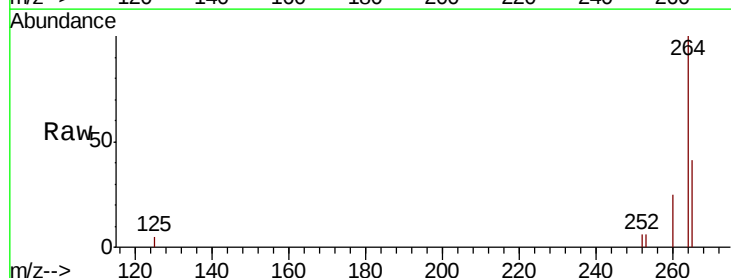
Tgt Ion:264 Resp: 34587

Ion Ratio Lower Upper

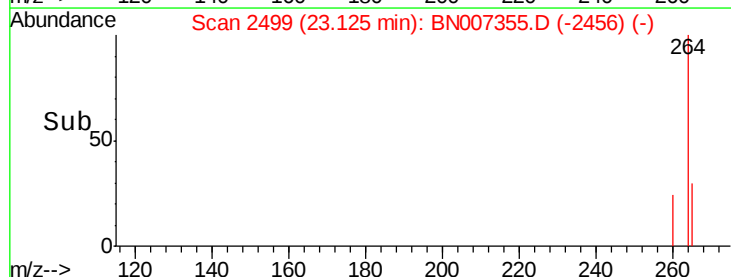
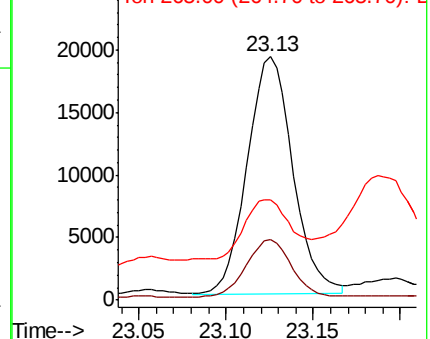
264 100

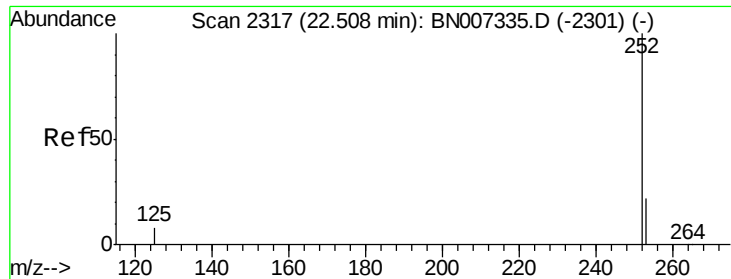
260 24.8 19.7 29.5

265 41.3 29.9 44.9



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





#35

Benzo(b)fluoranthene

Concen: 0.216 ng

RT: 22.67 min Scan# 2365

Delta R.T. 0.16 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

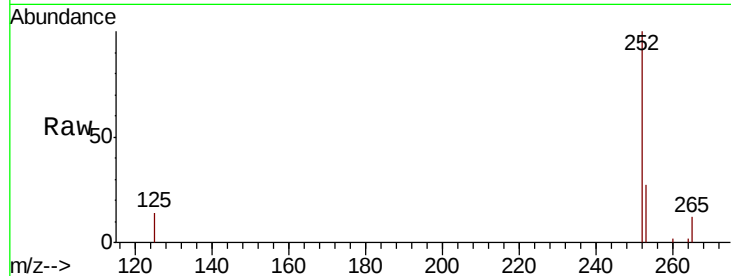
Tgt Ion:252 Resp: 27056

Ion Ratio Lower Upper

252 100

253 27.5 19.2 28.8

125 14.3 10.6 16.0

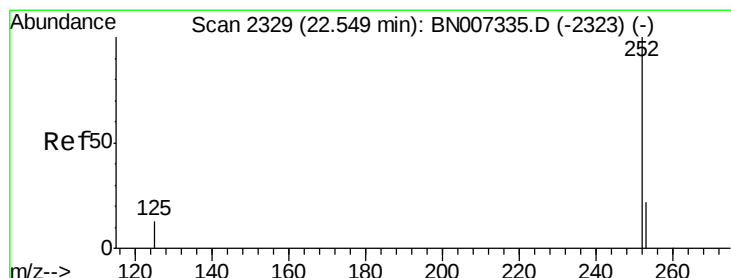
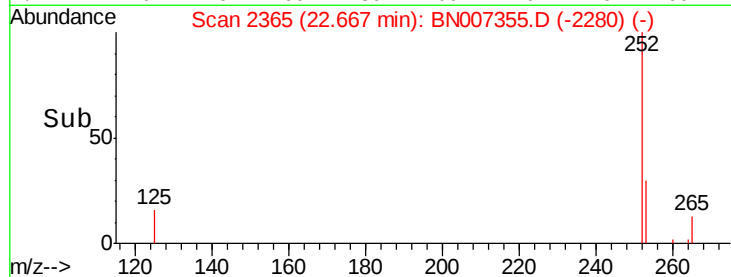
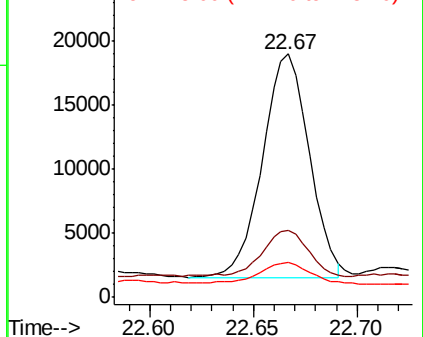


Abundance

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



#36

Benzo(k)fluoranthene

Concen: 0.220 ng

RT: 22.67 min Scan# 2365

Delta R.T. 0.12 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

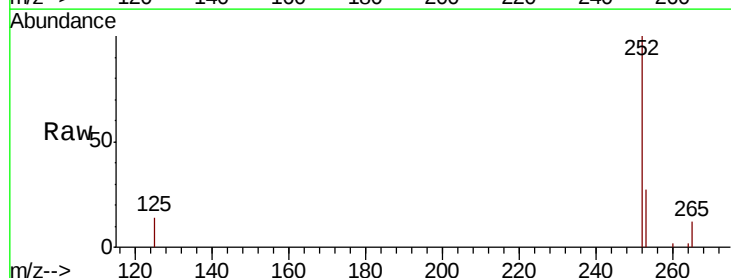
Tgt Ion:252 Resp: 27230

Ion Ratio Lower Upper

252 100

253 27.5 19.4 29.2

125 14.3 13.1 19.7

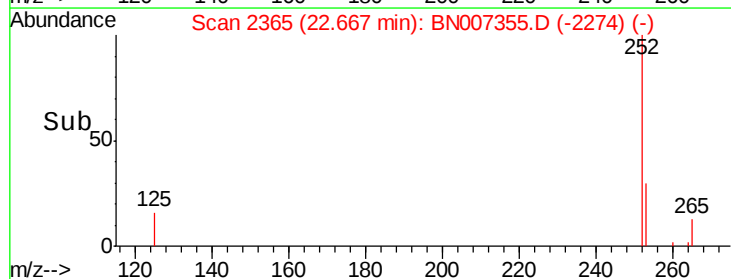
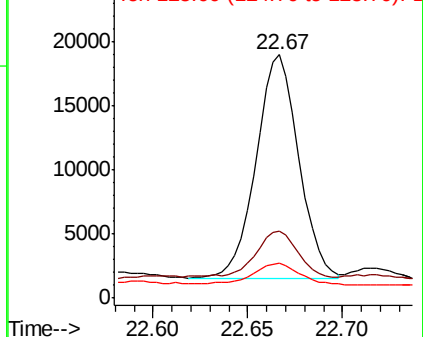


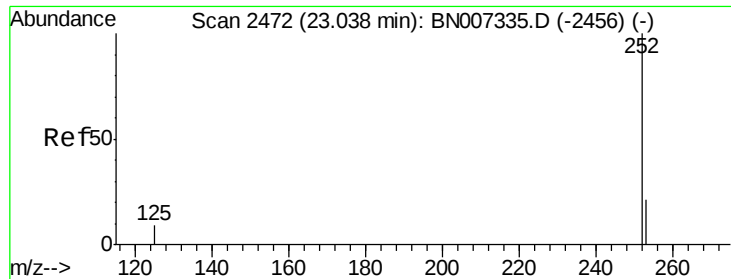
Abundance

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





#37

Benzo(a)pyrene

Concen: 0.256 ng

RT: 23.17 min Scan# 2512

Delta R.T. 0.13 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

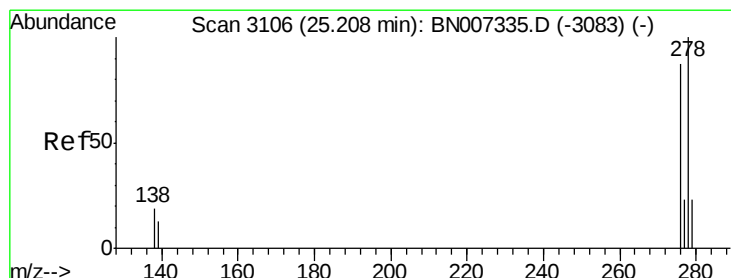
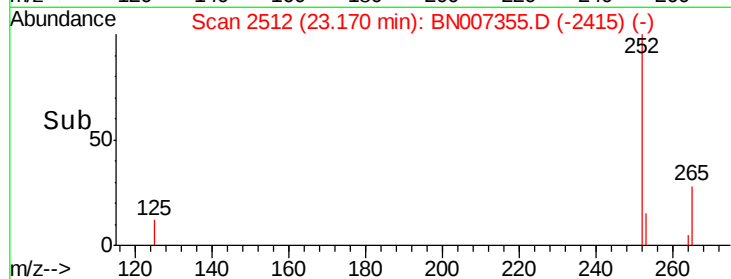
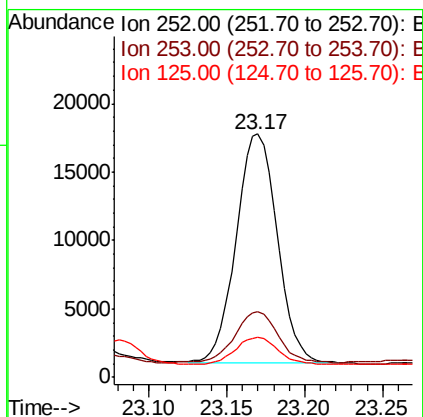
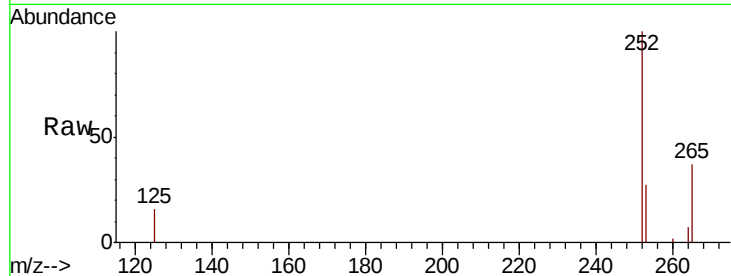
Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL

Tgt Ion:	252	Resp:	30545
Ion	Ratio	Lower	Upper
252	100		
253	26.9	19.5	29.3
125	16.4	12.1	18.1



#38

Dibenzo(a,h)anthracene

Concen: 0.286 ng

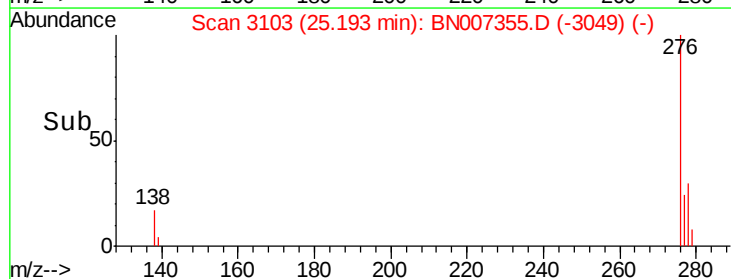
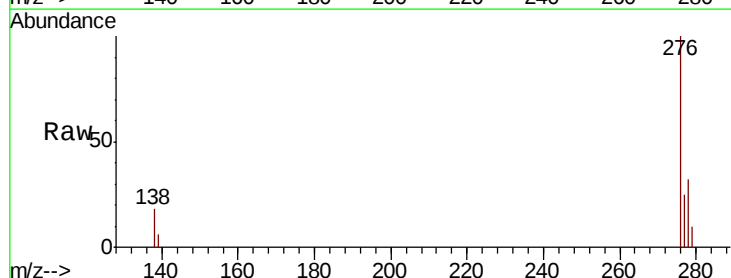
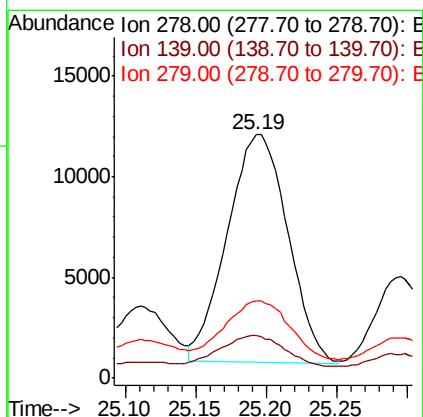
RT: 25.19 min Scan# 3103

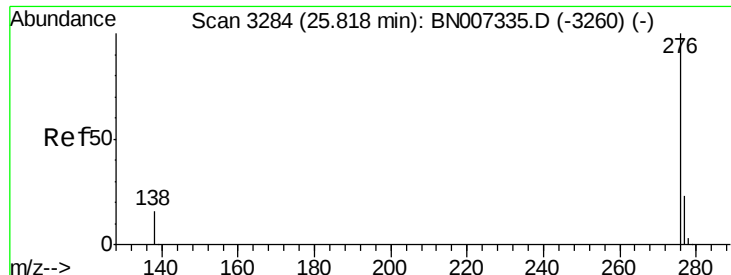
Delta R.T. -0.02 min

Lab File: BN007355.D

Acq: 24 Aug 2019 08:14

Tgt Ion:	278	Resp:	34026
Ion	Ratio	Lower	Upper
278	100		
139	17.3	13.7	20.5
279	31.5	20.2	30.4#





#39

Benzo(g,h,i)perylene

Concen: 1.024 ng

RT: 25.81 min Scan# 3284

Delta R.T. -0.01 min

Lab File: BN007355.D

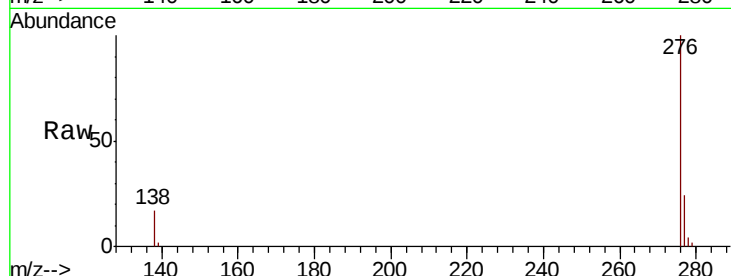
Acq: 24 Aug 2019 08:14

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519DL



Tgt Ion: 276 Resp: 121457

Ion Ratio Lower Upper

276 100

277 24.4 19.6 29.4

138 17.3 16.3 24.5

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

