

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN082419\
 Data File : BN007382.D
 Acq On : 25 Aug 2019 03:43
 Operator : HP/JU
 Sample : K4440-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019-FD

Quant Time: Aug 25 05:25:59 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	6719	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	25619	0.40	ng	-0.01
13) Acenaphthene-d10	14.05	164	12185	0.40	ng	0.00
19) Phenanthrene-d10	16.79	188	25414	0.40	ng	0.00
27) Chrysene-d12	21.02	240	28869	0.40	ng	0.00
34) Perylene-d12	23.12	264	33194	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.04	112	4704	0.19	ng	0.00
5) Phenol-d6	6.59	99	5689	0.17	ng	0.00
8) Nitrobenzene-d5	8.53	82	4220	0.19	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	8214	0.19	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	1121	0.18	ng	0.00
15) 2-Fluorobiphenyl	12.66	172	10054	0.20	ng	0.00
25) Fluoranthene-d10	18.84	212	15759	0.19	ng	0.00
29) Terphenyl-d14	19.46	244	11759	0.16	ng	0.00

Target Compounds

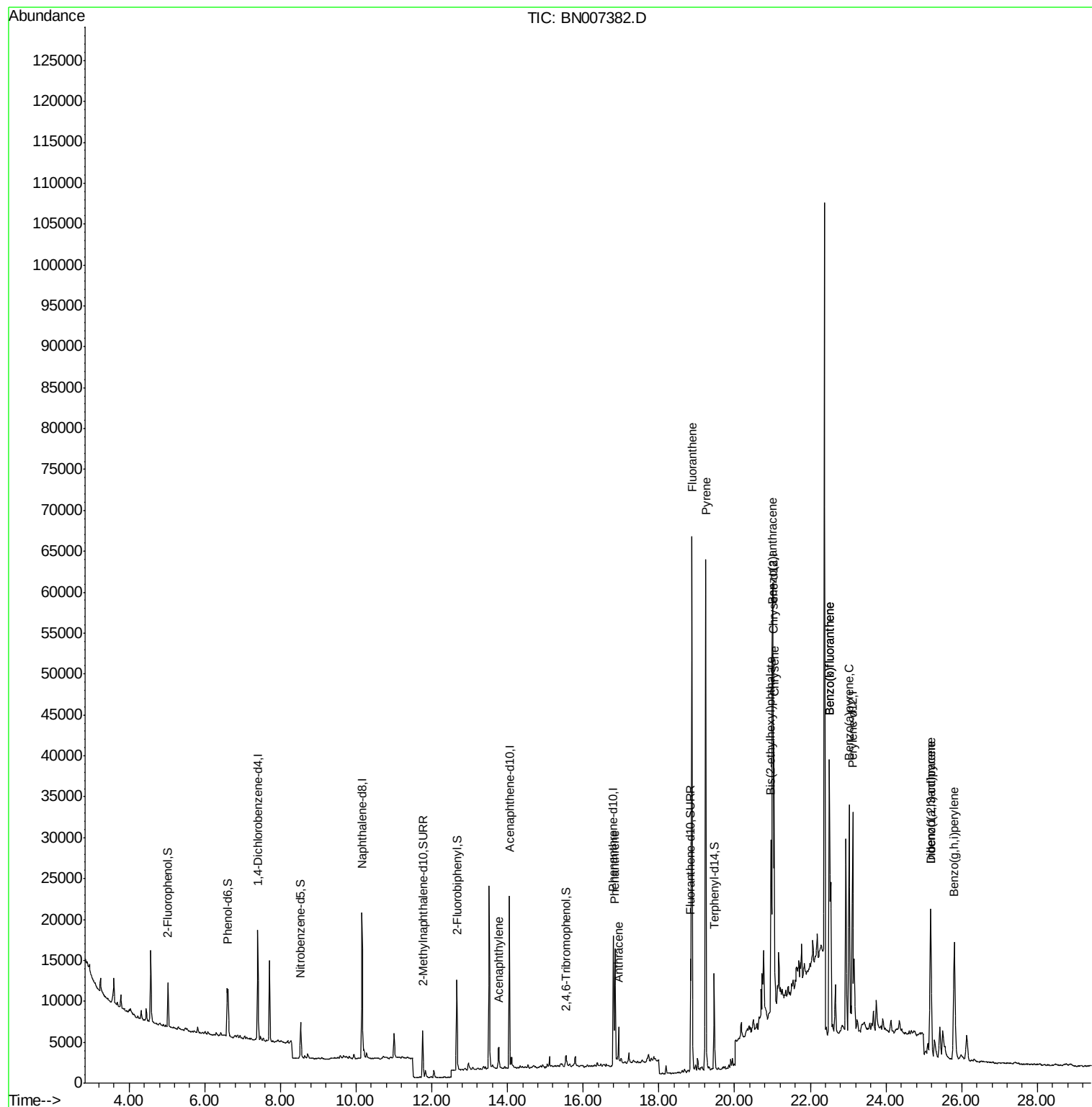
						Qvalue
16) Acenaphthylene	13.77	152	3969	0.055	ng	97
23) Phenanthrene	16.84	178	15225	0.199	ng	98
24) Anthracene	16.93	178	5284	0.069	ng	97
26) Fluoranthene	18.87	202	60656	0.618	ng	100
28) Pyrene	19.24	202	57275	0.493	ng	# 94
30) Benzo(a)anthracene	20.99	228	41316	0.364	ng	95
31) Chrysene	21.05	228	29101	0.266	ng	95
32) Bis(2-ethylhexyl)phthalate	20.96	149	18148	0.228	ng	98
33) Indeno(1,2,3-cd)pyrene	25.18	276	27025	0.205	ng	98
35) Benzo(b)fluoranthene	22.50	252	52714	0.438	ng	97
36) Benzo(k)fluoranthene	22.50	252	52714	0.443	ng	96
37) Benzo(a)pyrene	23.03	252	36669	0.320	ng	96
38) Dibenzo(a,h)anthracene	25.18	278	7045	0.062	ng	# 57
39) Benzo(g,h,i)perylene	25.80	276	29789	0.262	ng	97

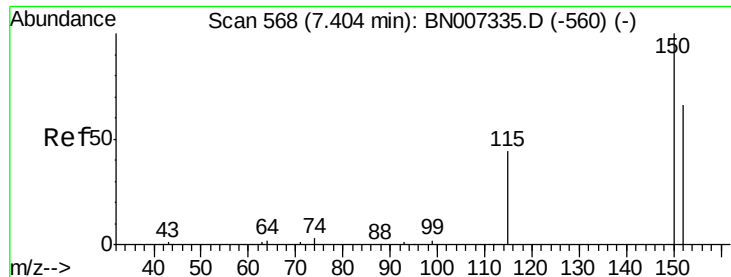
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.40 min Scan# 568

Delta R.T. -0.00 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

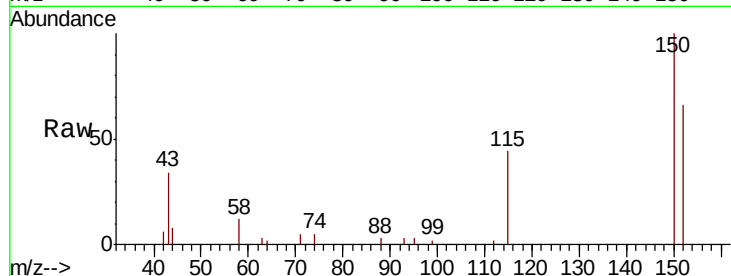
Tgt Ion:152 Resp: 6719

Ion Ratio Lower Upper

152 100

150 150.8 109.1 163.7

115 66.6 59.6 89.4

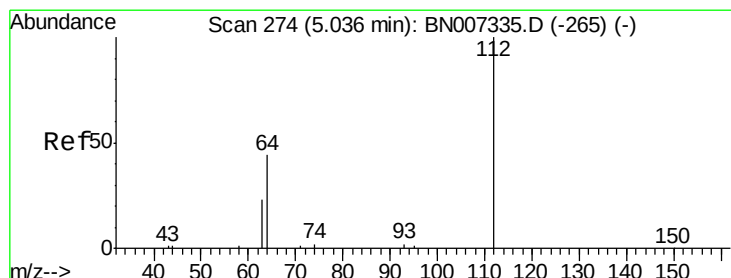
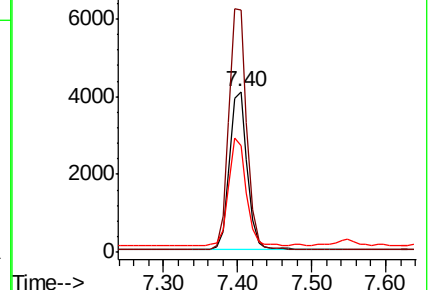
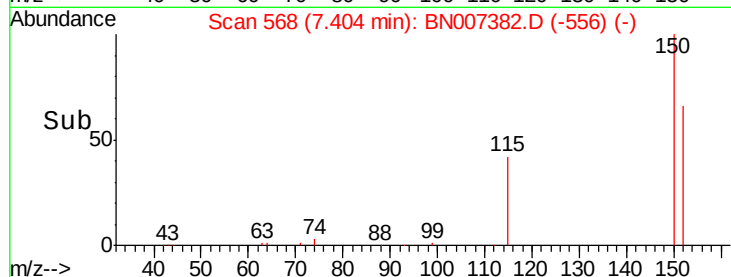


Abundance

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: 0.187 ng

RT: 5.04 min Scan# 274

Delta R.T. 0.00 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

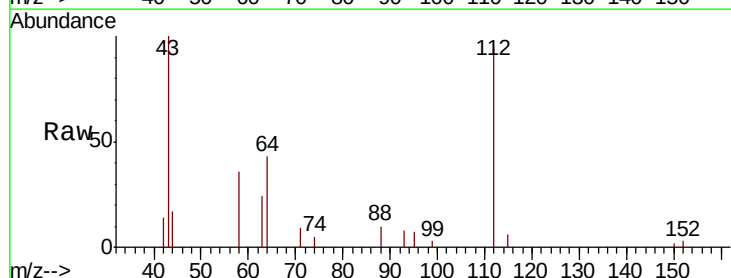
Tgt Ion:112 Resp: 4704

Ion Ratio Lower Upper

112 100

64 51.4 42.3 63.5

63 27.4 23.6 35.4

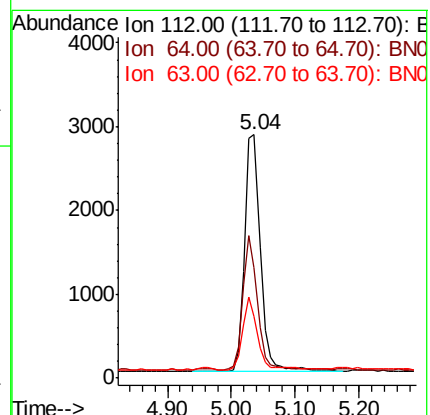
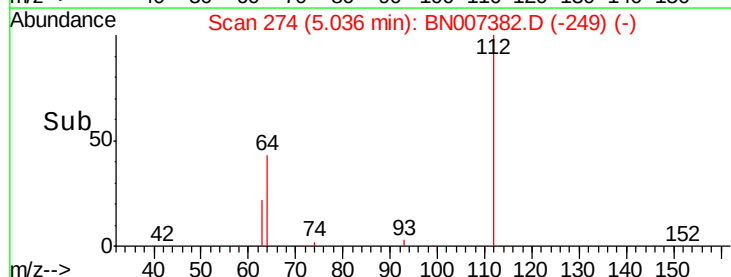


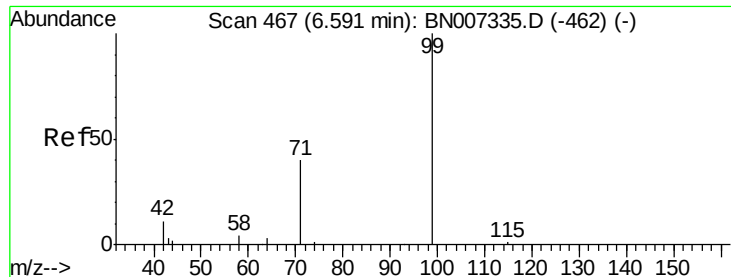
Abundance

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: 0.175 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

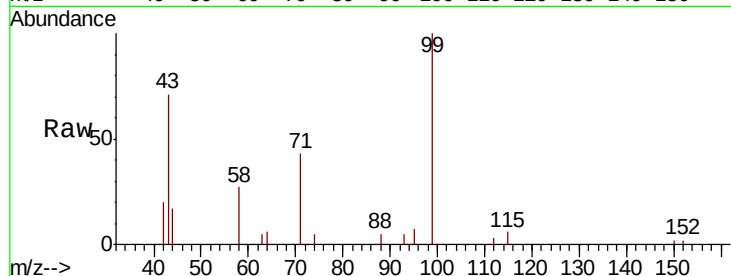
Tgt Ion: 99 Resp: 5689

Ion Ratio Lower Upper

99 100

42 16.2 11.2 16.8

71 36.4 31.8 47.8

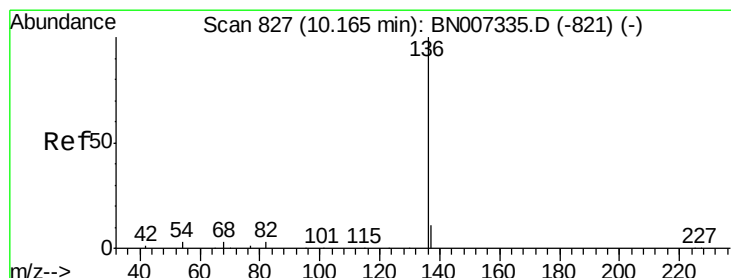
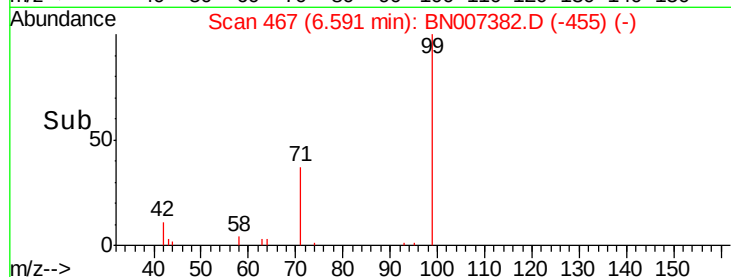
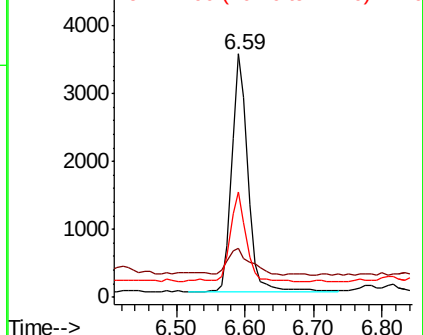


Abundance

Ion 99.00 (98.70 to 99.70): BN0

Ion 42.00 (41.70 to 42.70): BN0

Ion 71.00 (70.70 to 71.70): BN0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Tgt Ion: 136 Resp: 25619

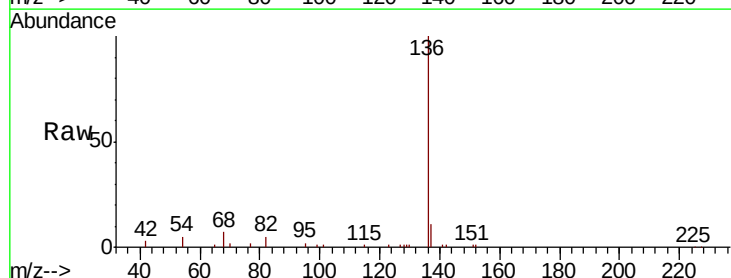
Ion Ratio Lower Upper

136 100

137 11.5 12.9 19.3#

54 5.3 8.6 12.8#

68 6.7 17.0 25.4#



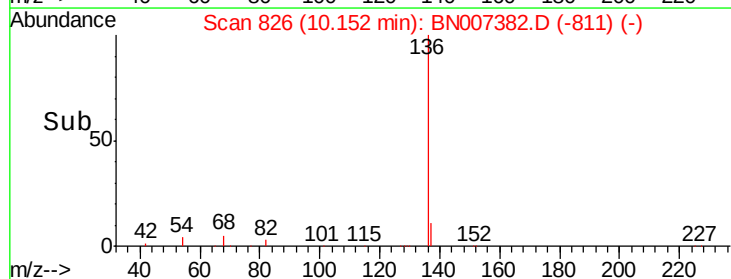
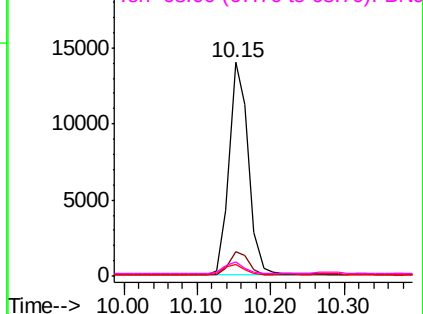
Abundance

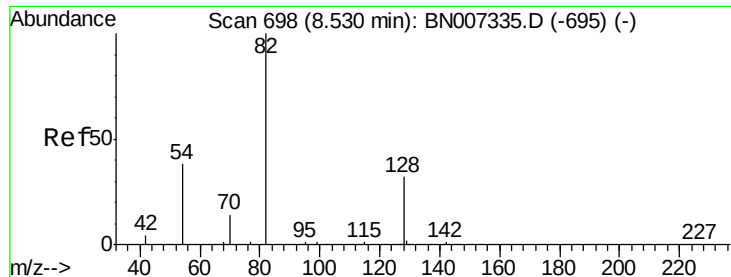
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BN0

Ion 68.00 (67.70 to 68.70): BN0





#8

Nitrobenzene-d5

Concen: 0.189 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

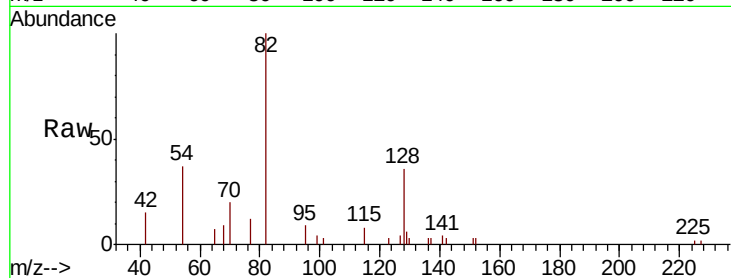
Tgt Ion: 82 Resp: 4220

Ion Ratio Lower Upper

82 100

128 35.6 19.7 29.5#

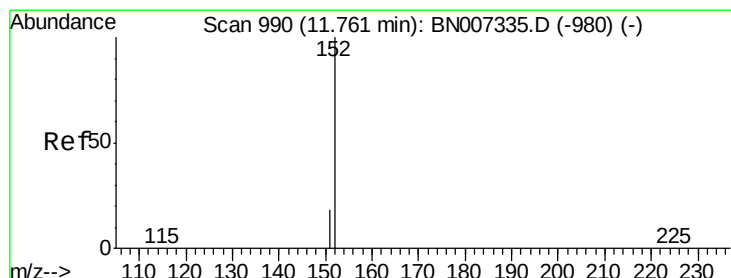
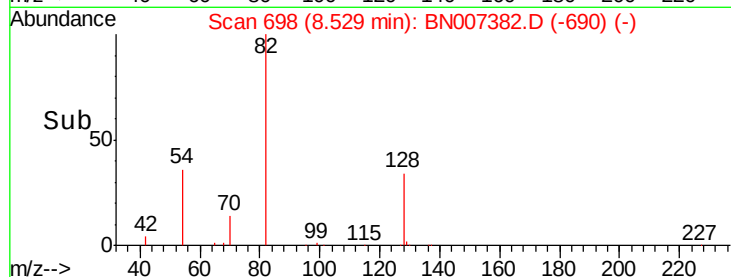
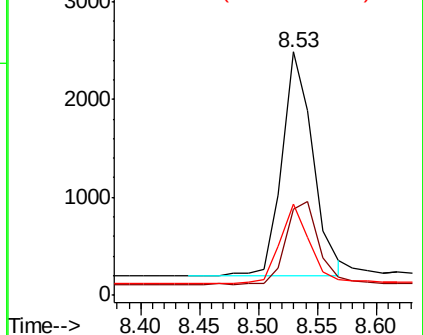
54 37.4 25.8 38.6



Abundance Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BN0



#11

2-Methylnaphthalene-d10

Concen: 0.193 ng

RT: 11.76 min Scan# 989

Delta R.T. -0.00 min

Lab File: BN007382.D

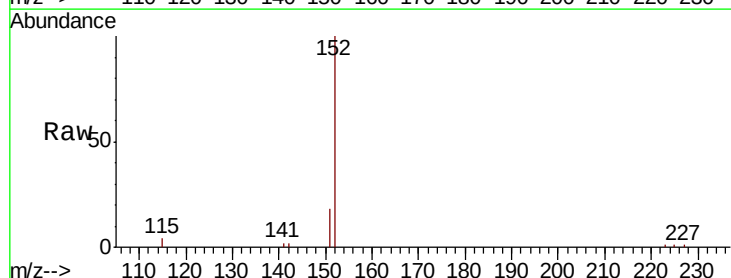
Acq: 25 Aug 2019 03:43

Tgt Ion: 152 Resp: 8214

Ion Ratio Lower Upper

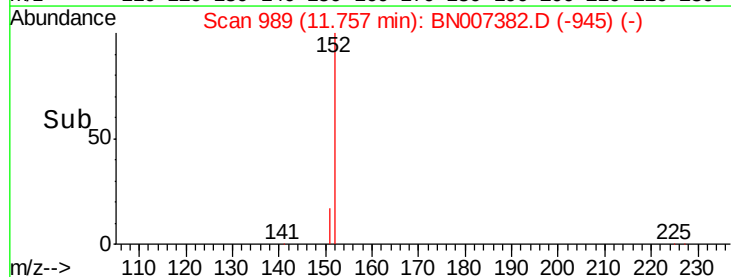
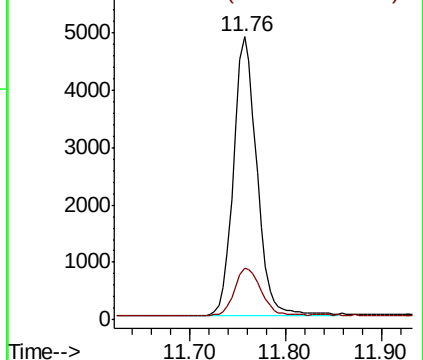
152 100

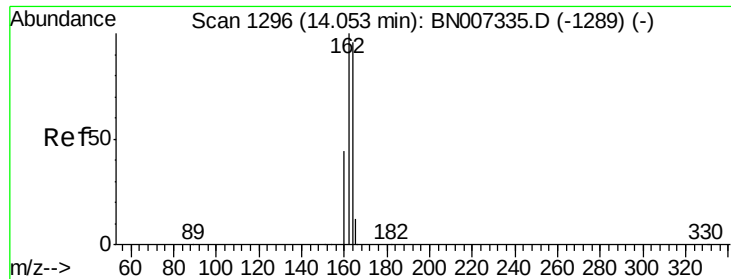
151 19.4 16.2 24.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

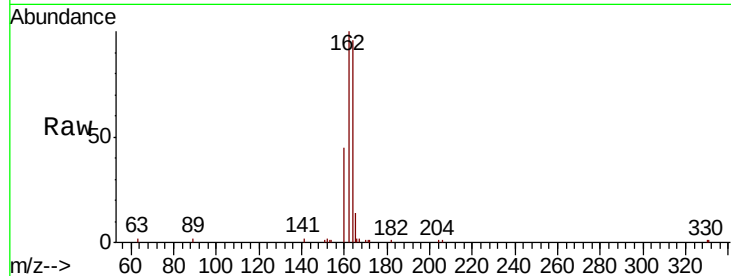
Tgt Ion:164 Resp: 12185

Ion Ratio Lower Upper

164 100

162 104.4 83.5 125.3

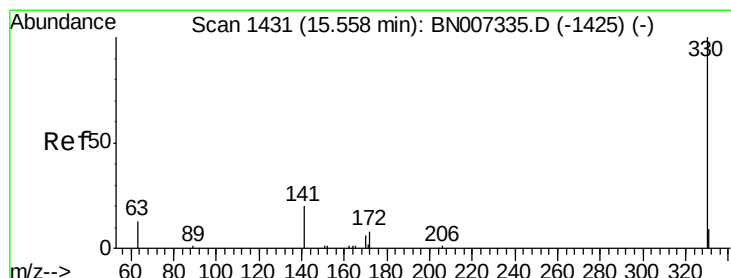
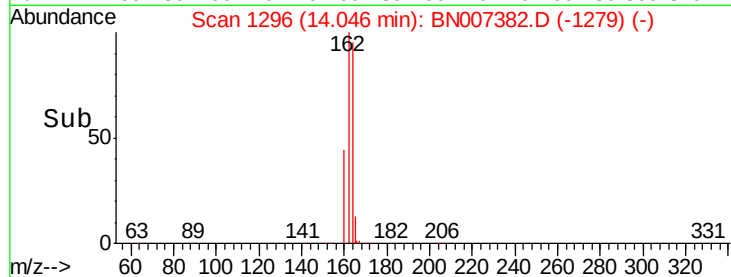
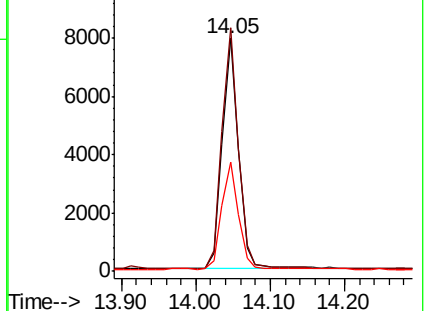
160 46.6 38.2 57.4



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: 0.176 ng

RT: 15.55 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

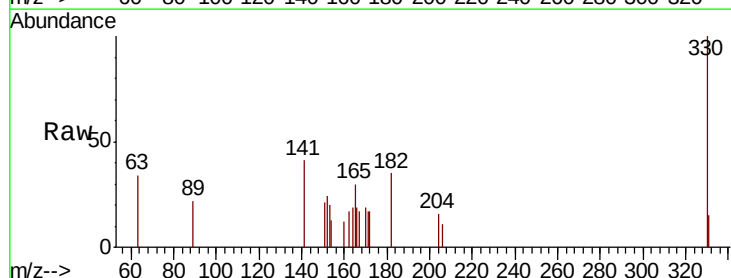
Tgt Ion:330 Resp: 1121

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

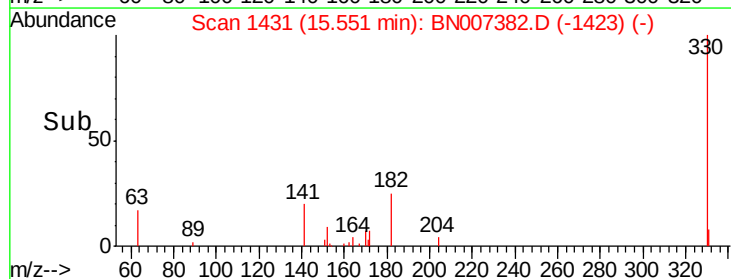
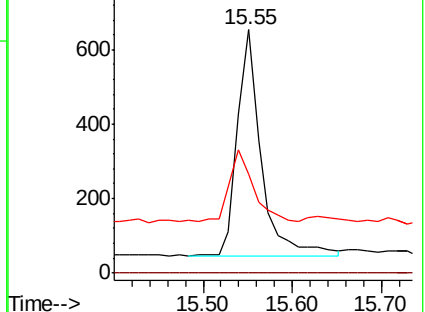
141 31.9 26.9 40.3

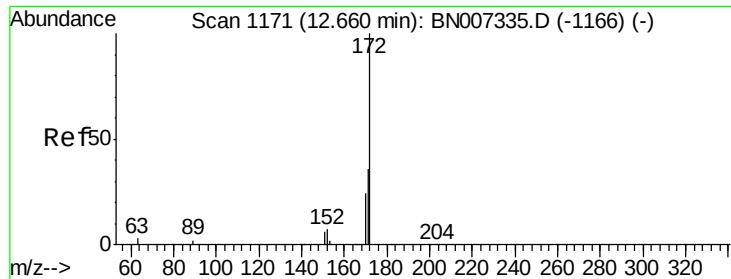


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

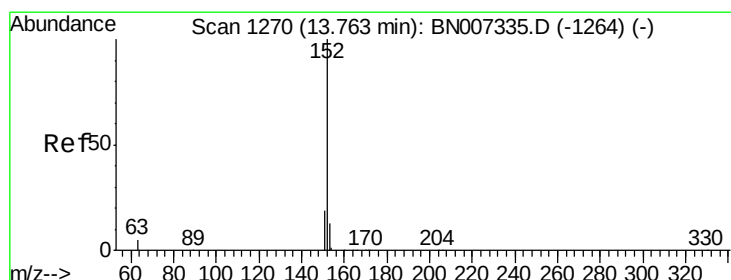
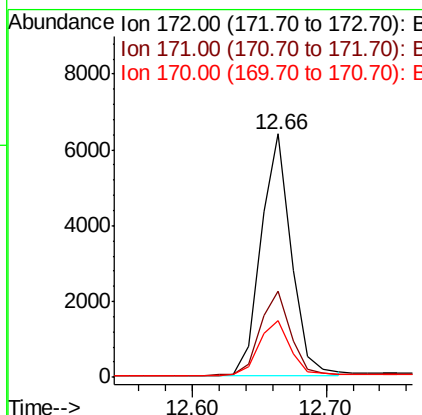
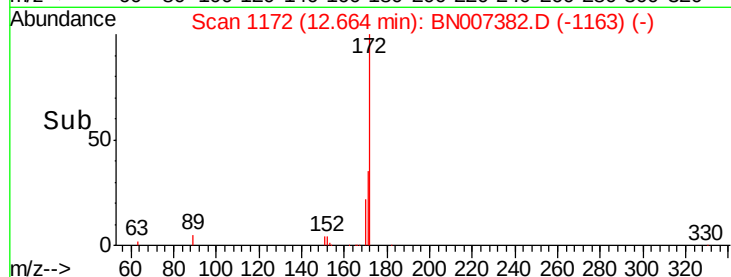
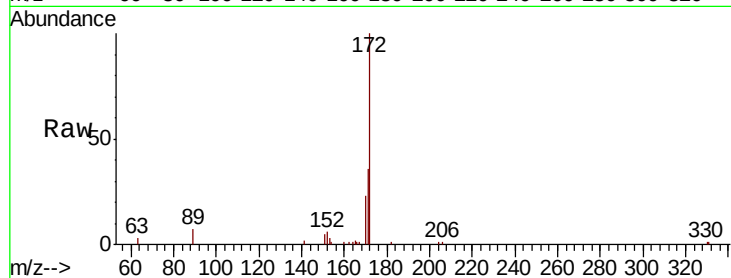




#15
2-Fluorobiphenyl
Concen: 0.205 ng
RT: 12.66 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

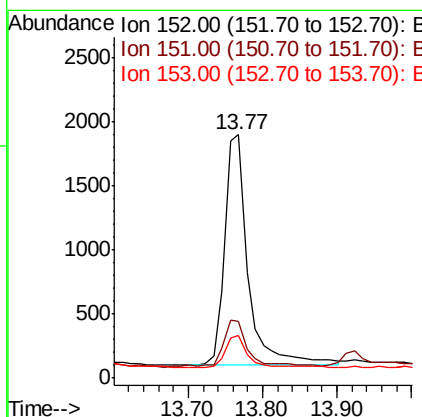
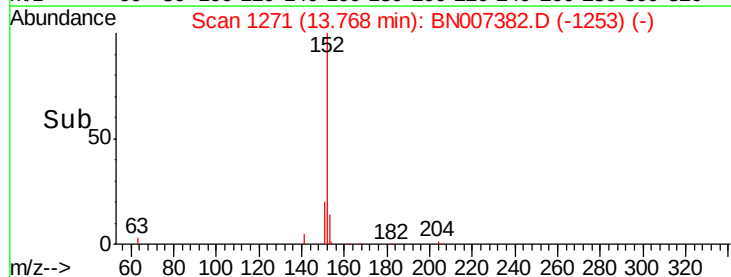
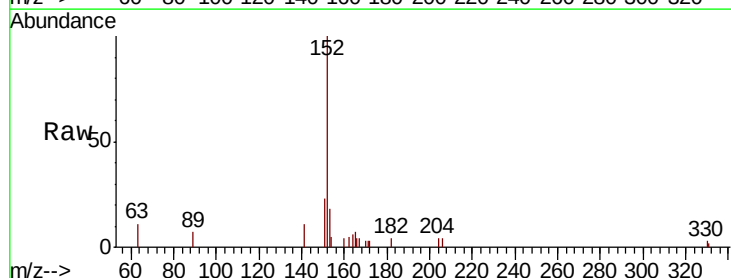
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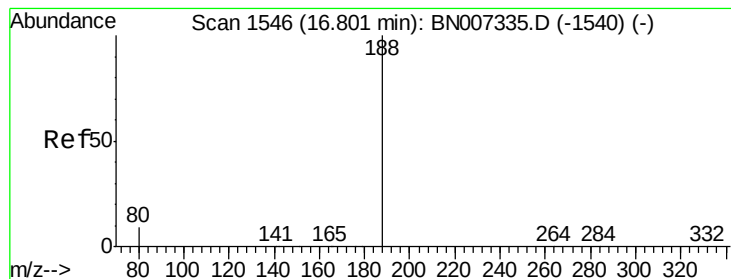
Tgt Ion:172 Resp: 10054
Ion Ratio Lower Upper
172 100
171 35.5 30.3 45.5
170 23.1 20.7 31.1



#16
Acenaphthylene
Concen: 0.055 ng
RT: 13.77 min Scan# 1271
Delta R.T. 0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion:152 Resp: 3969
Ion Ratio Lower Upper
152 100
151 21.8 16.1 24.1
153 13.5 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: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

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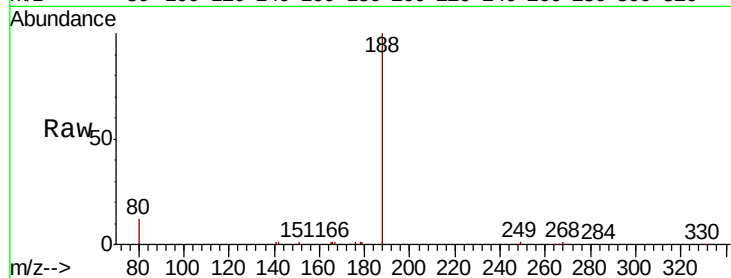
Tgt Ion:188 Resp: 25414

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

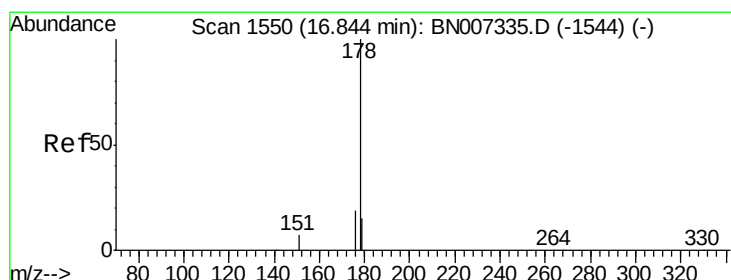
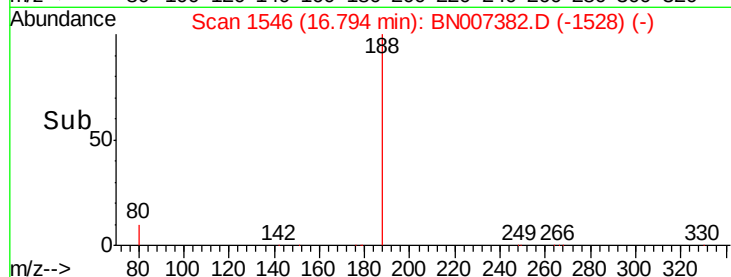
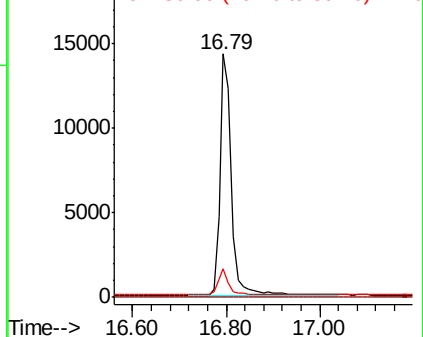
80 11.6 11.8 17.8#



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



#23

Phenanthrene

Concen: 0.199 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

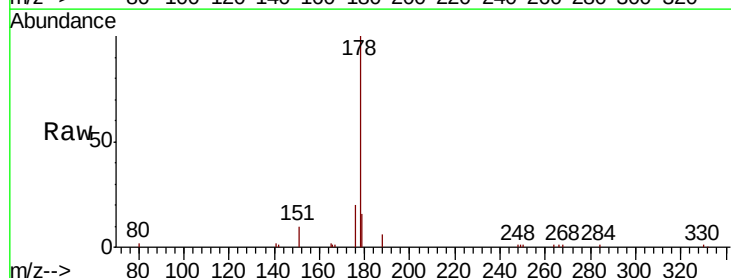
Tgt Ion:178 Resp: 15225

Ion Ratio Lower Upper

178 100

176 18.6 15.3 22.9

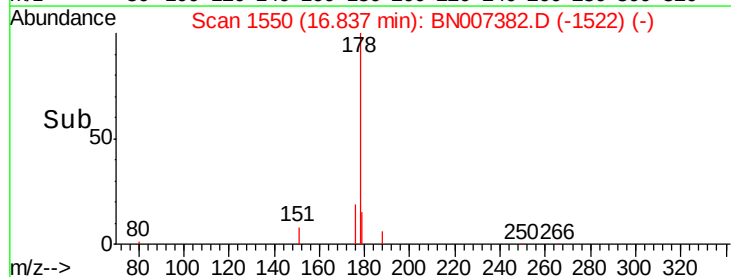
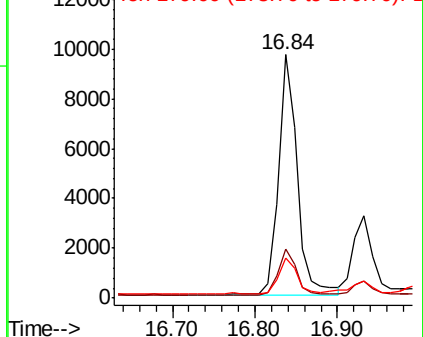
179 14.1 12.6 19.0

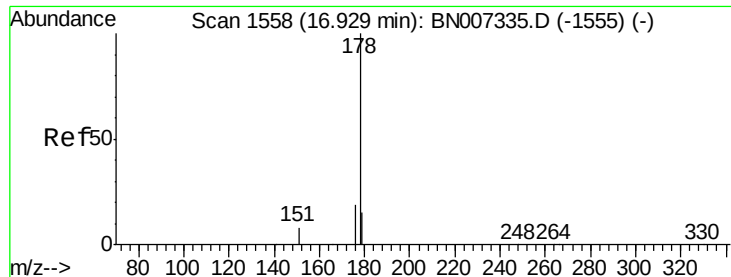


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.069 ng

RT: 16.93 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN007382.D

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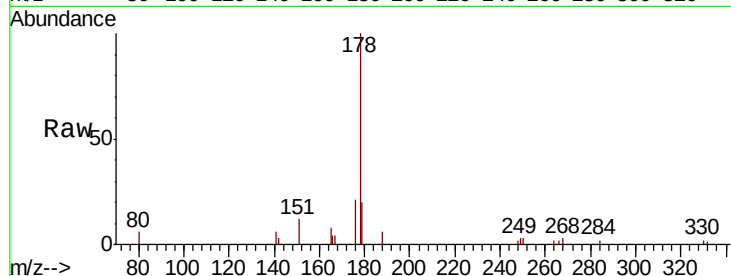
Tgt Ion:178 Resp: 5284

Ion Ratio Lower Upper

178 100

176 17.1 14.9 22.3

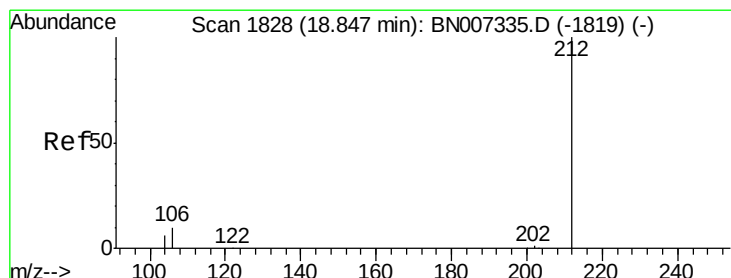
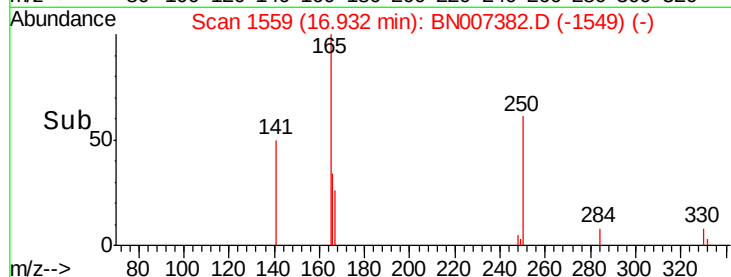
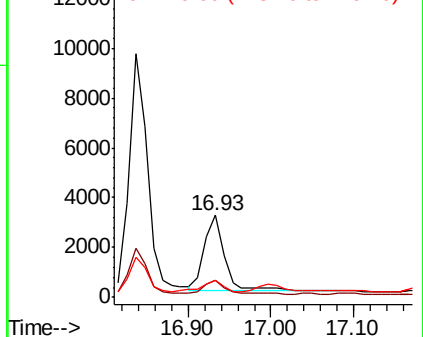
179 16.4 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.193 ng

RT: 18.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

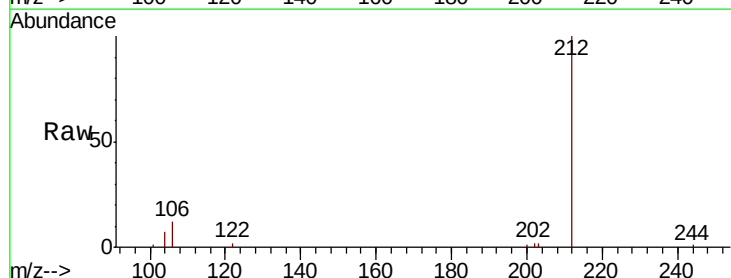
Tgt Ion:212 Resp: 15759

Ion Ratio Lower Upper

212 100

106 11.0 9.0 13.4

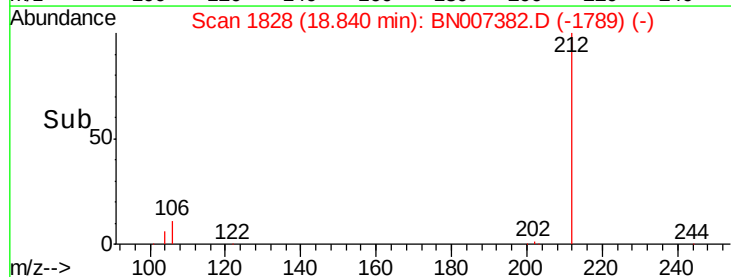
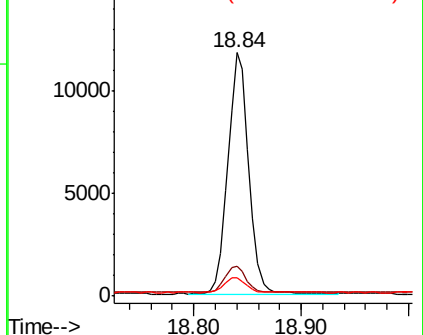
104 6.4 5.4 8.2

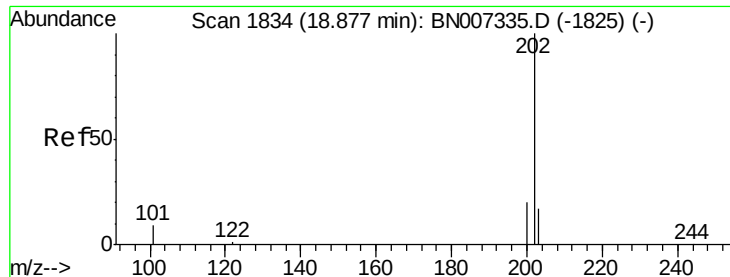


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

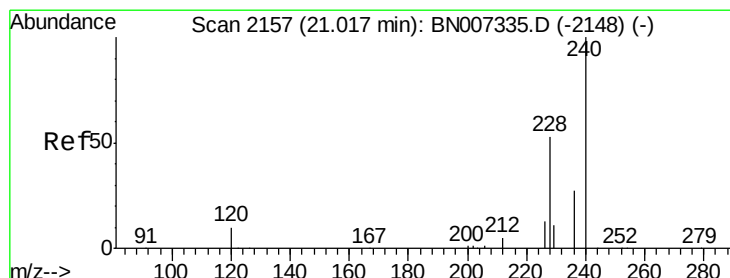
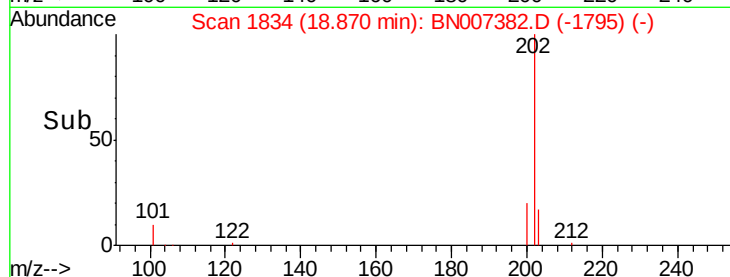
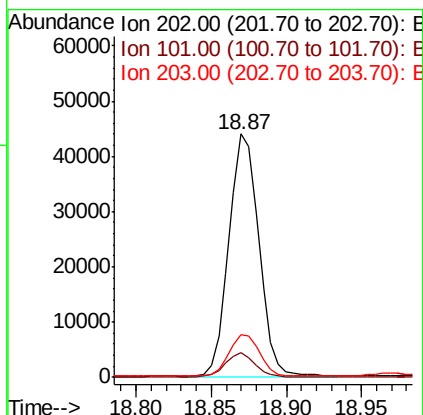
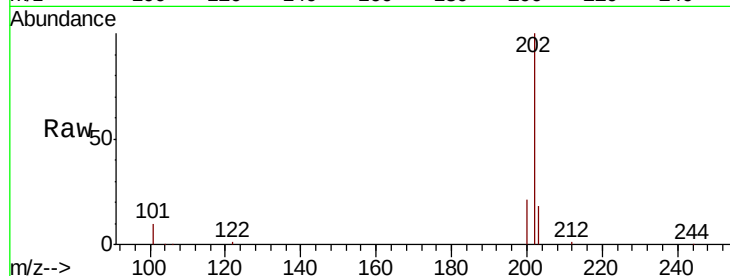




#26
Fluoranthene
Concen: 0.618 ng
RT: 18.87 min Scan# 1834
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

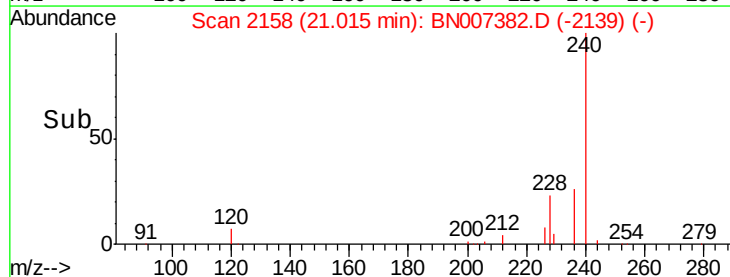
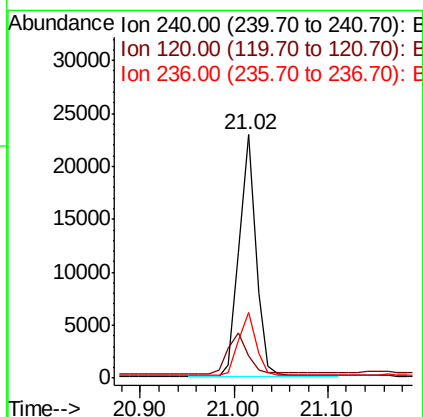
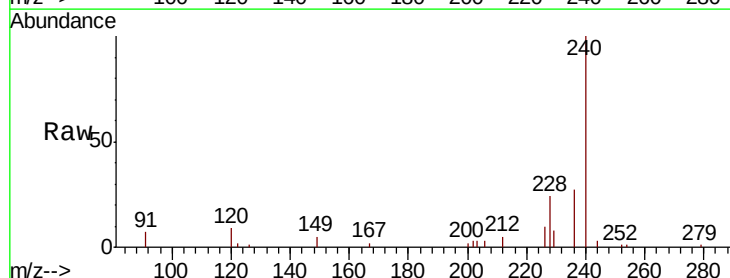
Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

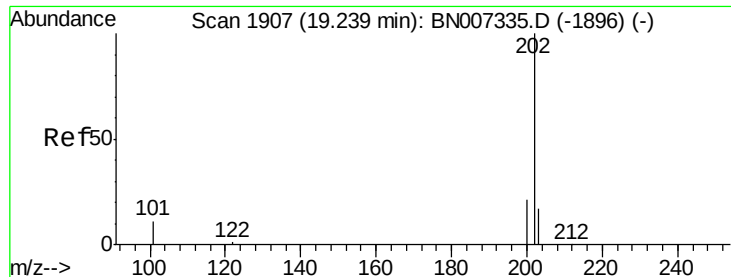
Tgt Ion: 202 Resp: 60656
Ion Ratio Lower Upper
202 100
101 9.4 7.7 11.5
203 17.3 13.7 20.5



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.02 min Scan# 2158
Delta R.T. -0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion: 240 Resp: 28869
Ion Ratio Lower Upper
240 100
120 9.2 9.6 14.4#
236 26.8 22.2 33.2

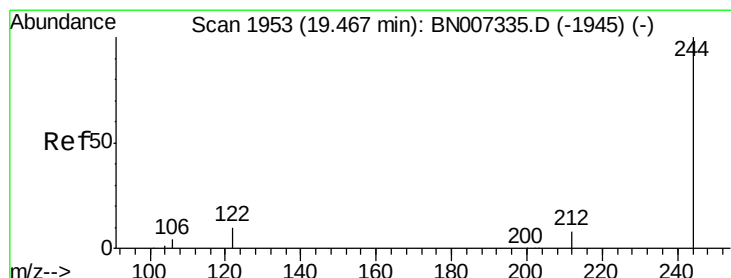
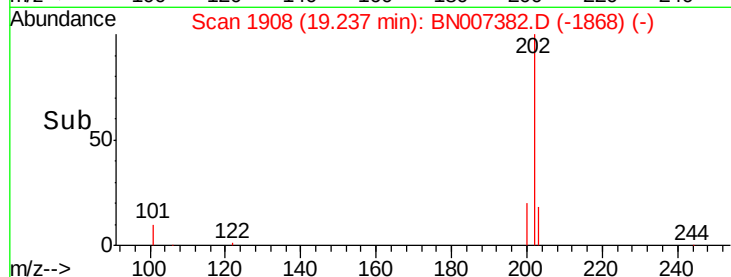
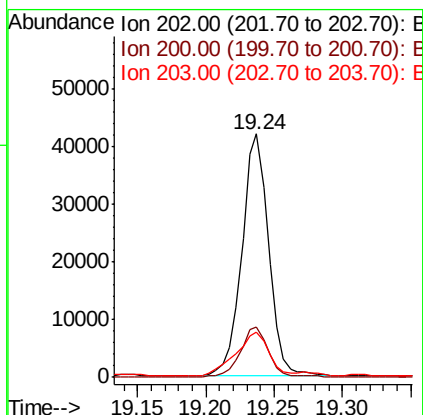
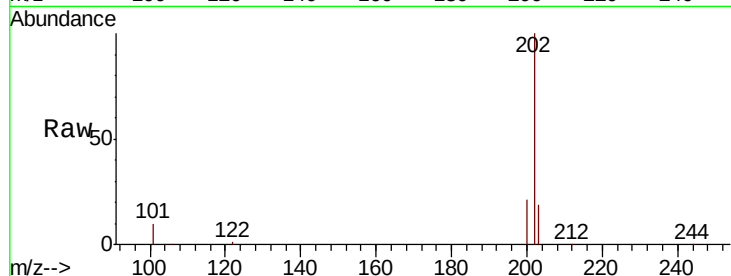




#28
Pyrene
Concen: 0.493 ng
RT: 19.24 min Scan# 1908
Delta R.T. -0.00 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

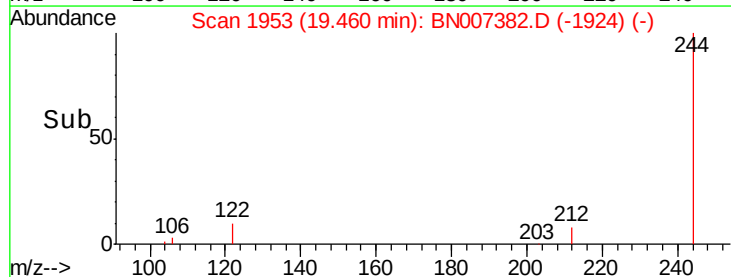
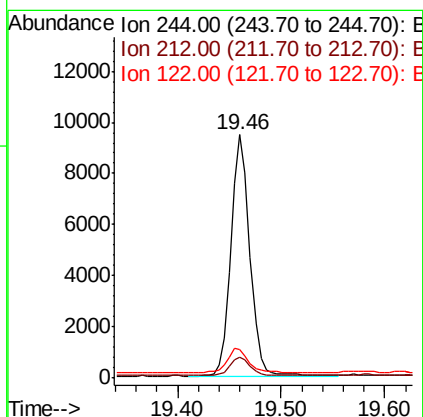
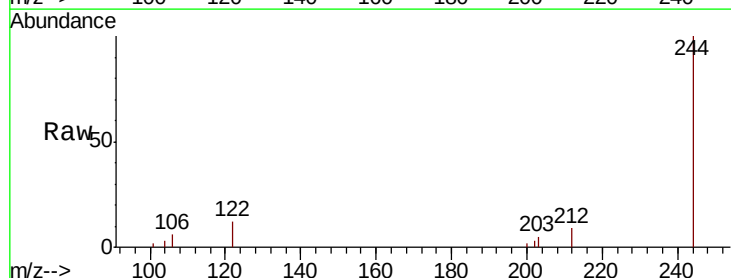
Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019-FD

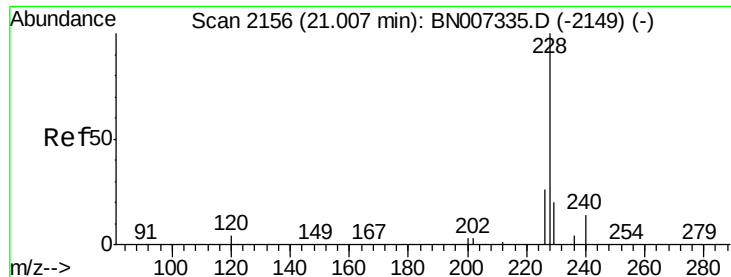
Tgt Ion:202 Resp: 57275
Ion Ratio Lower Upper
202 100
200 20.8 16.6 25.0
203 23.4 14.2 21.4#



#29
Terphenyl-d14
Concen: 0.156 ng
RT: 19.46 min Scan# 1953
Delta R.T. -0.01 min
Lab File: BN007382.D
Acq: 25 Aug 2019 03:43

Tgt Ion:244 Resp: 11759
Ion Ratio Lower Upper
244 100
212 8.8 7.0 10.6
122 12.0 9.6 14.4





#30

Benzo(a)anthracene

Concen: 0.364 ng

RT: 20.99 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

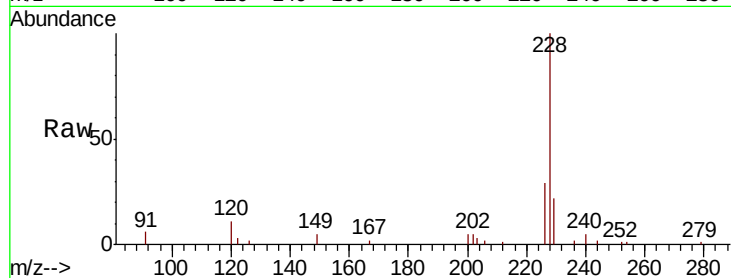
Instrument :

BNA_N

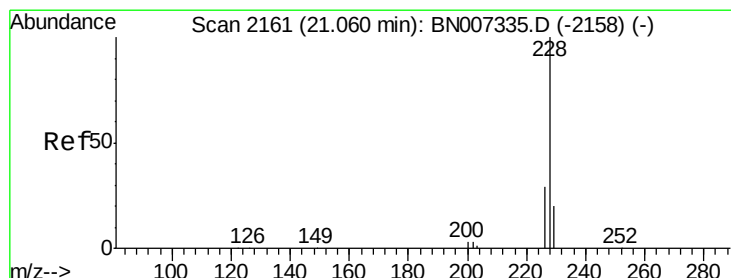
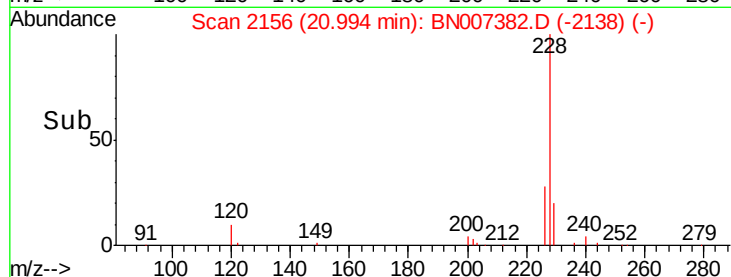
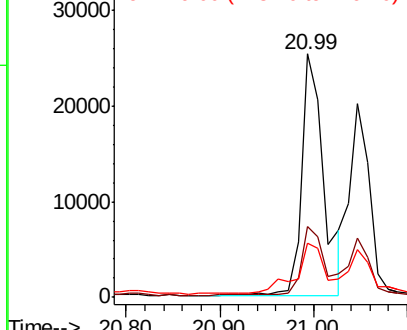
ClientSampleId :

S302-J-2.0-2.5-082019-FD

Tgt Ion:	228	Resp:	41316
Ion	Ratio	Lower	Upper
228	100		
226	29.2	21.3	31.9
229	22.0	16.1	24.1



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



#31

Chrysene

Concen: 0.266 ng

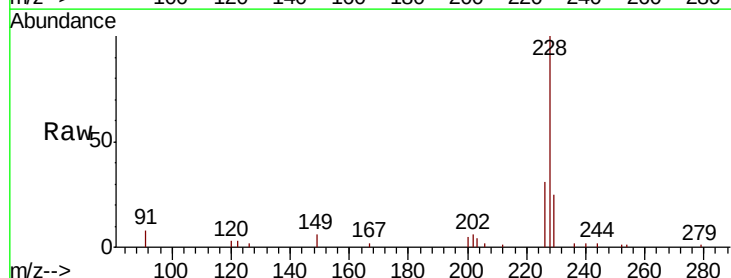
RT: 21.05 min Scan# 2161

Delta R.T. -0.01 min

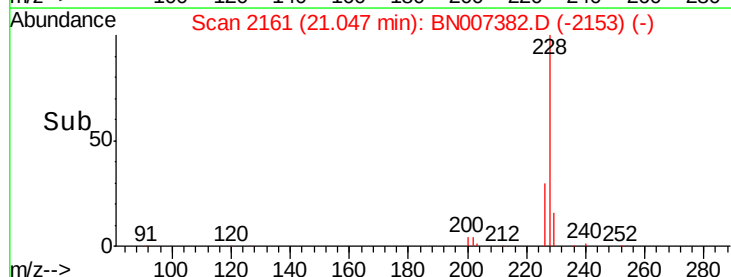
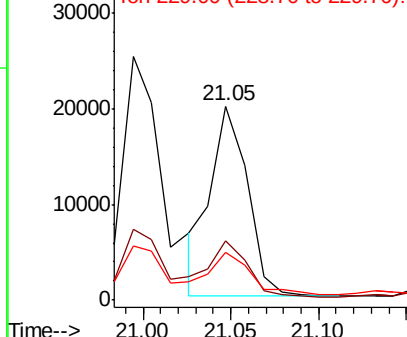
Lab File: BN007382.D

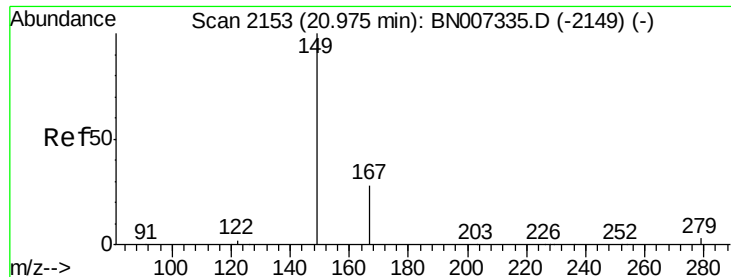
Acq: 25 Aug 2019 03:43

Tgt Ion:	228	Resp:	29101
Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.5	35.3
229	24.6	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





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.228 ng

RT: 20.96 min Scan# 2153

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

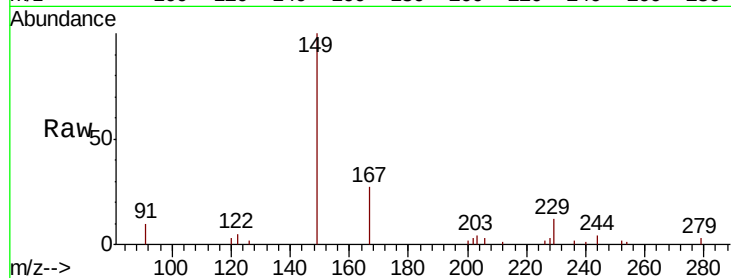
Tgt Ion:149 Resp: 18148

Ion Ratio Lower Upper

149 100

167 27.1 22.8 34.2

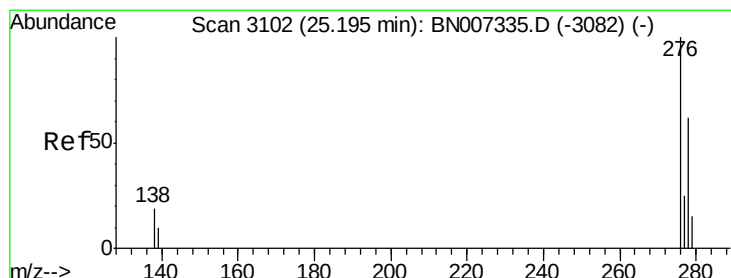
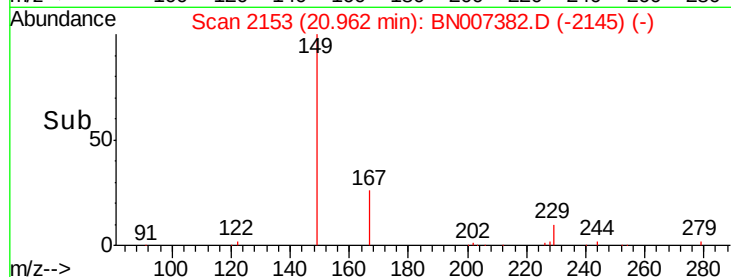
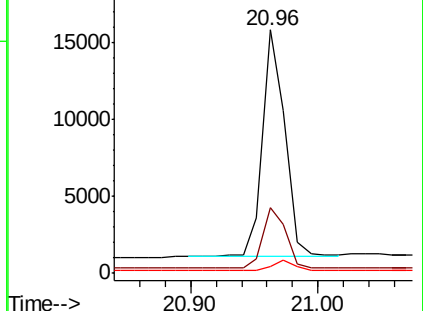
279 4.5 3.5 5.3



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.205 ng

RT: 25.18 min Scan# 3099

Delta R.T. -0.02 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

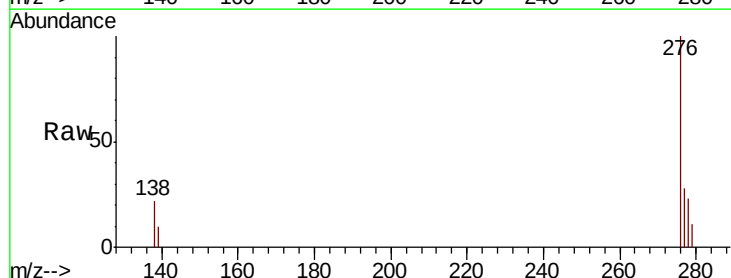
Tgt Ion:276 Resp: 27025

Ion Ratio Lower Upper

276 100

138 17.2 15.1 22.7

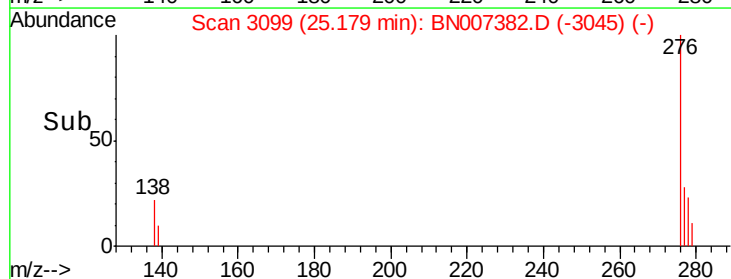
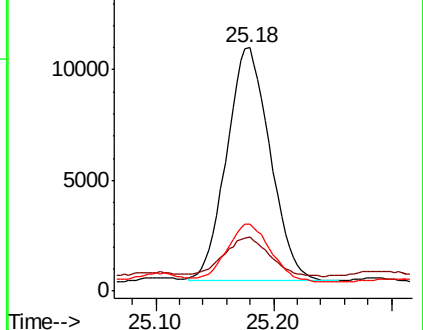
277 25.1 19.7 29.5

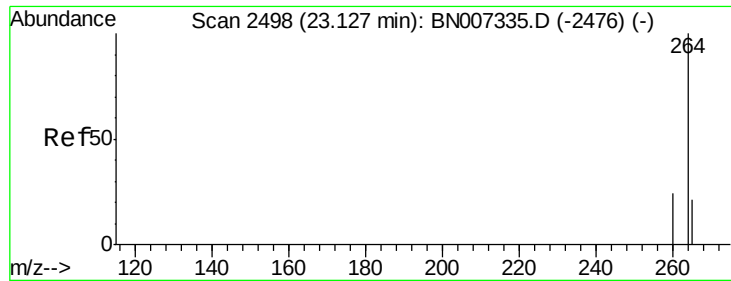


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

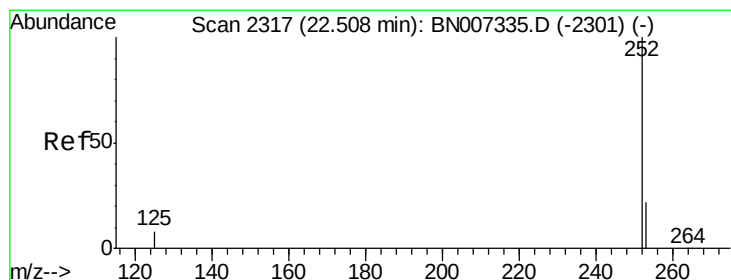
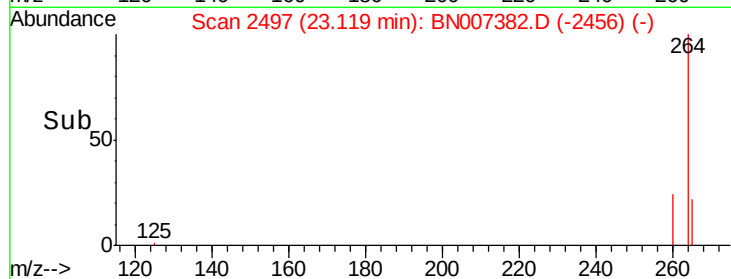
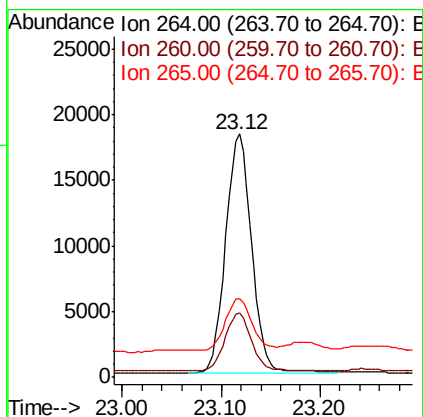
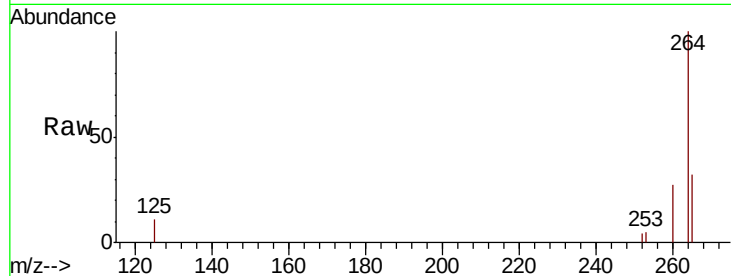




#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.12 min Scan# 2497
 Delta R.T. -0.01 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

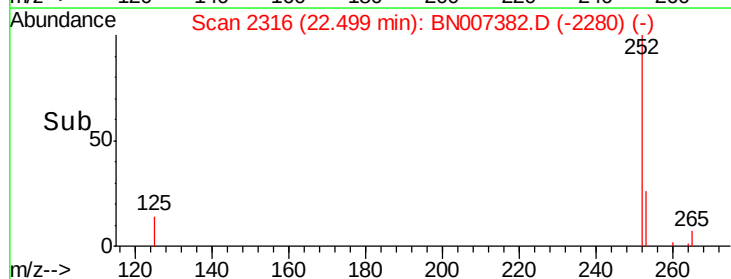
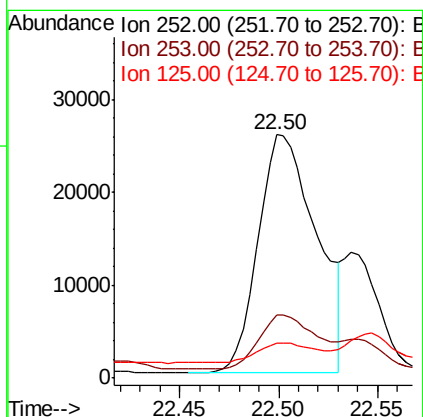
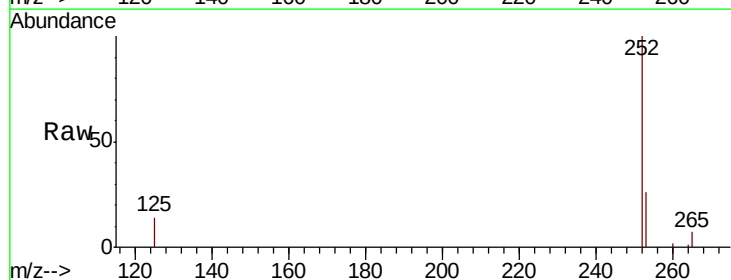
Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019-FD

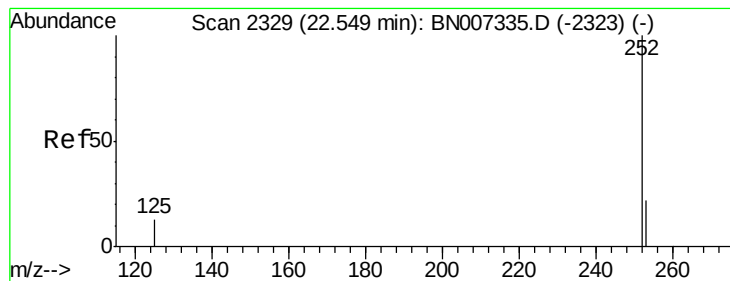
Tgt Ion: 264 Resp: 33194
 Ion Ratio Lower Upper
 264 100
 260 26.5 19.7 29.5
 265 32.1 29.9 44.9



#35
Benzo(b)fluoranthene
 Concen: 0.438 ng
 RT: 22.50 min Scan# 2316
 Delta R.T. -0.01 min
 Lab File: BN007382.D
 Acq: 25 Aug 2019 03:43

Tgt Ion: 252 Resp: 52714
 Ion Ratio Lower Upper
 252 100
 253 25.9 19.2 28.8
 125 14.2 10.6 16.0





#36

Benzo(k)fluoranthene

Concen: 0.443 ng

RT: 22.50 min Scan# 2316

Delta R.T. -0.05 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

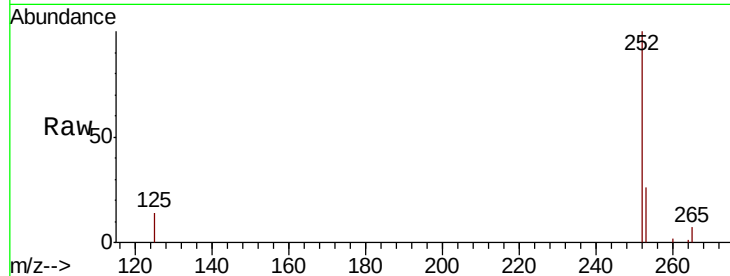
Tgt Ion:252 Resp: 52714

Ion Ratio Lower Upper

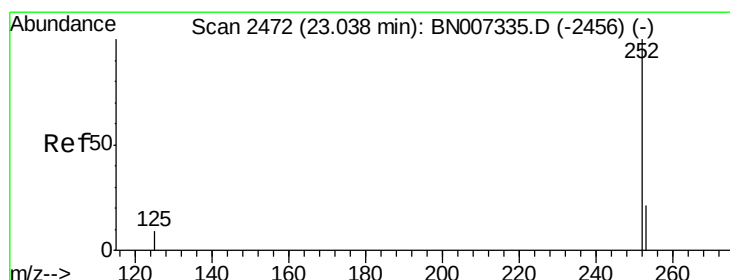
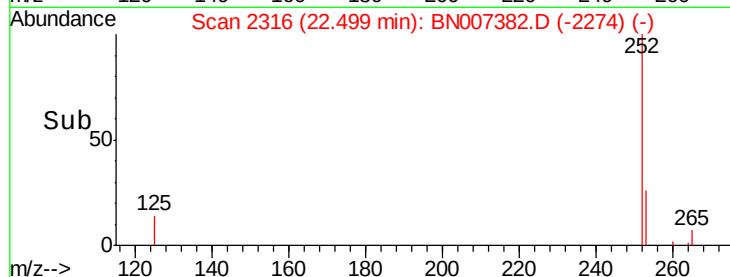
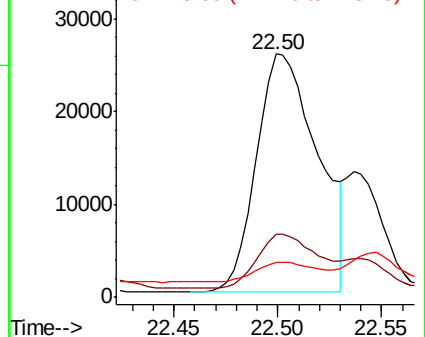
252 100

253 25.9 19.4 29.2

125 14.2 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: 0.320 ng

RT: 23.03 min Scan# 2470

Delta R.T. -0.01 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

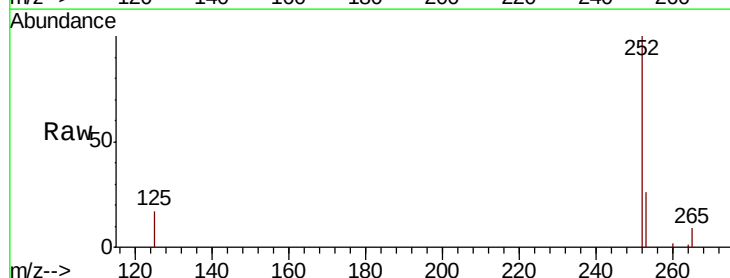
Tgt Ion:252 Resp: 36669

Ion Ratio Lower Upper

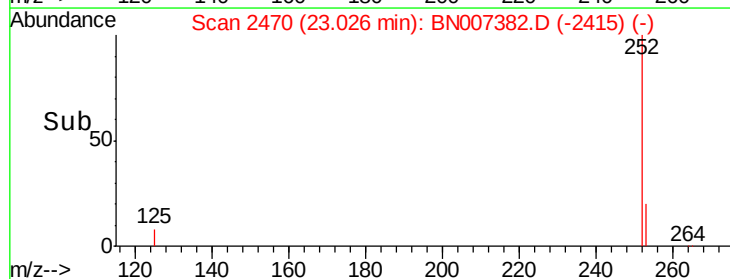
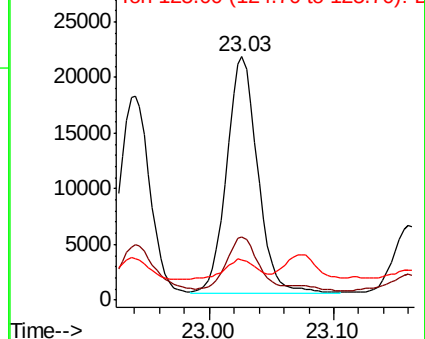
252 100

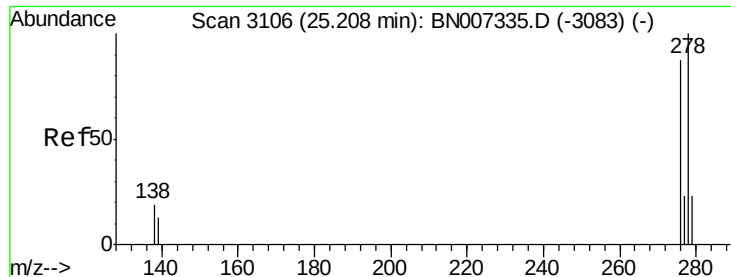
253 26.0 19.5 29.3

125 16.7 12.1 18.1



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





#38

Dibenzo(a,h)anthracene

Concen: 0.062 ng

RT: 25.18 min Scan# 3100

Delta R.T. -0.03 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019-FD

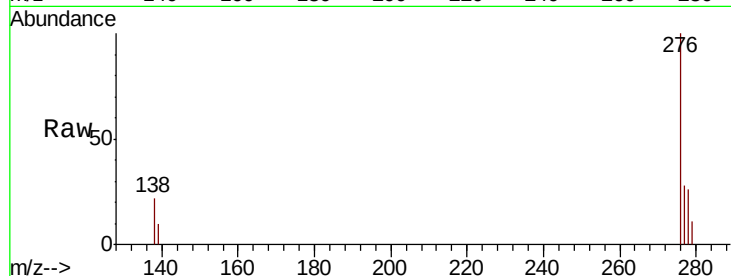
Tgt Ion:278 Resp: 7045

Ion Ratio Lower Upper

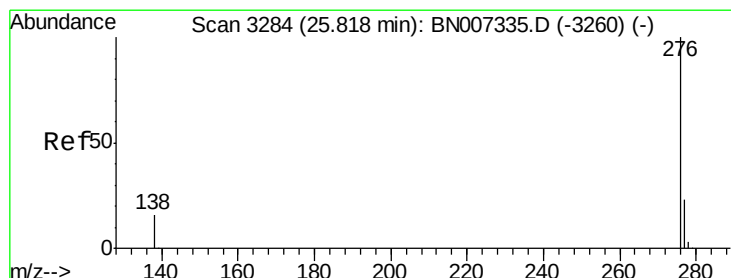
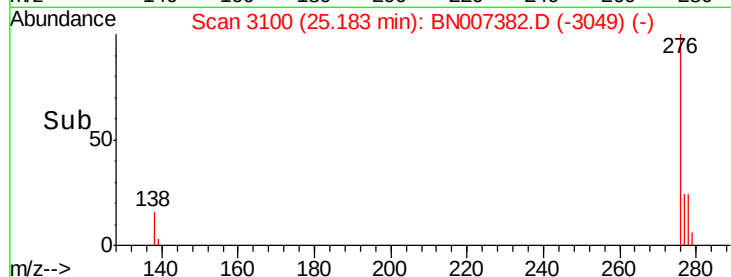
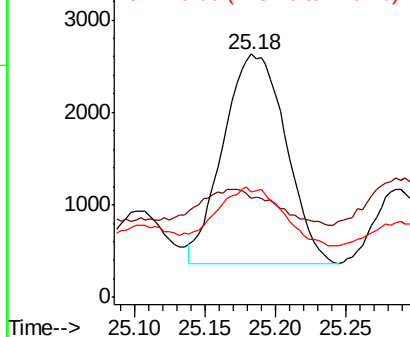
278 100

139 40.8 13.7 20.5#

279 43.4 20.2 30.4#



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



#39

Benzo(g,h,i)perylene

Concen: 0.262 ng

RT: 25.80 min Scan# 3281

Delta R.T. -0.02 min

Lab File: BN007382.D

Acq: 25 Aug 2019 03:43

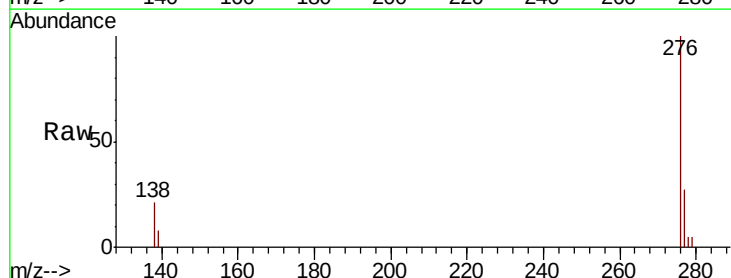
Tgt Ion:276 Resp: 29789

Ion Ratio Lower Upper

276 100

277 26.6 19.6 29.4

138 21.4 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

