

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN082419\
 Data File : BN007366.D
 Acq On : 24 Aug 2019 16:43
 Operator : HP/JU
 Sample : K4440-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Aug 24 23:41:39 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	5748	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	24550	0.40	ng	-0.01
13) Acenaphthene-d10	14.05	164	13625	0.40	ng	0.00
19) Phenanthrene-d10	16.79	188	30412	0.40	ng	0.00
27) Chrysene-d12	21.02	240	29286	0.40	ng	0.00
34) Perylene-d12	23.13	264	32161	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.04	112	5233	0.25	ng	0.00
5) Phenol-d6	6.59	99	6847	0.26	ng	0.00
8) Nitrobenzene-d5	8.53	82	5213	0.24	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	9967	0.24	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	1839	0.26	ng	0.00
15) 2-Fluorobiphenyl	12.66	172	12320	0.22	ng	0.00
25) Fluoranthene-d10	18.84	212	19369	0.20	ng	0.00
29) Terphenyl-d14	19.47	244	13507	0.18	ng	0.00

Target Compounds

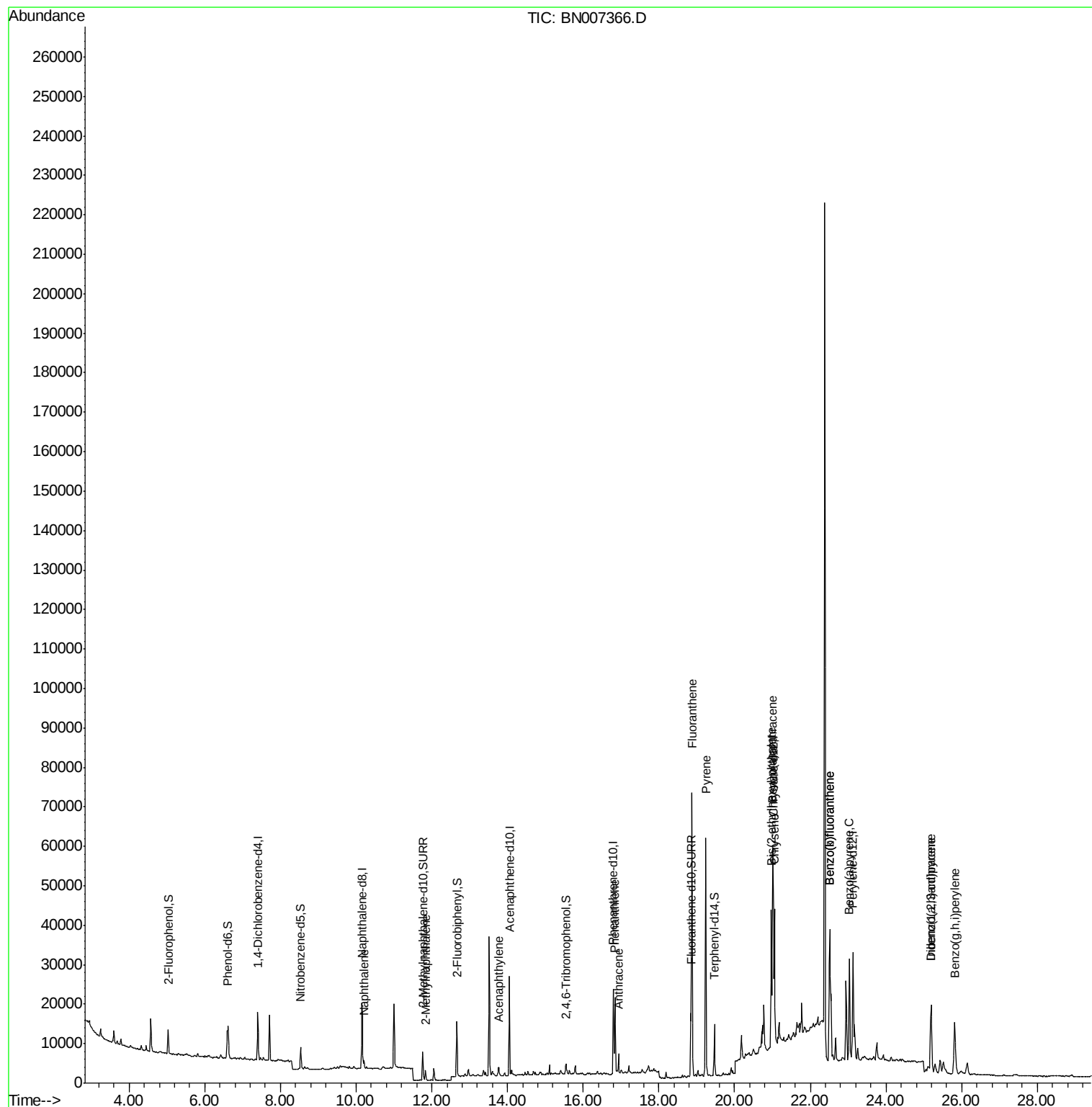
						Qvalue
9) Naphthalene	10.20	128	2662	0.038	ng	# 94
12) 2-Methylnaphthalene	11.83	142	1799	0.038	ng	# 95
16) Acenaphthylene	13.76	152	2888	0.036	ng	# 97
23) Phenanthrene	16.84	178	19633	0.215	ng	99
24) Anthracene	16.93	178	4948	0.054	ng	# 95
26) Fluoranthene	18.87	202	64549	0.550	ng	99
28) Pyrene	19.24	202	57010	0.484	ng	# 96
30) Benzo(a)anthracene	21.00	228	38567	0.335	ng	96
31) Chrysene	21.06	228	33334	0.300	ng	97
32) Bis(2-ethylhexyl)phthalate	20.97	149	28961	0.370	ng	98
33) Indeno(1,2,3-cd)pyrene	25.19	276	25846	0.193	ng	97
35) Benzo(b)fluoranthene	22.51	252	52427	0.450	ng	97
36) Benzo(k)fluoranthene	22.51	252	52427	0.455	ng	98
37) Benzo(a)pyrene	23.03	252	33838	0.305	ng	# 96
38) Dibenzo(a,h)anthracene	25.20	278	6781	0.061	ng	# 48
39) Benzo(g,h,i)perylene	25.81	276	25766	0.234	ng	97

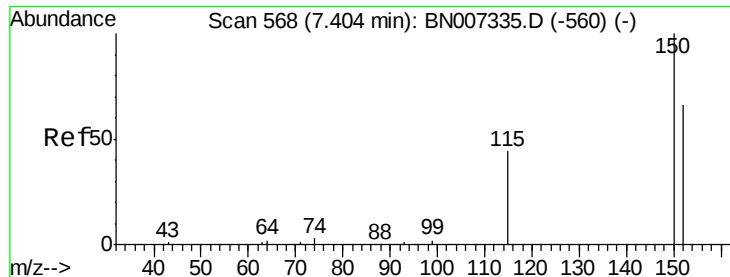
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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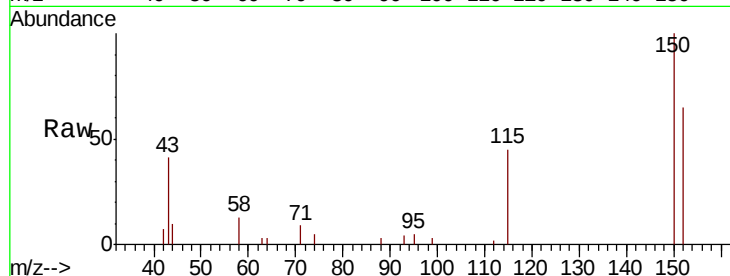


#1

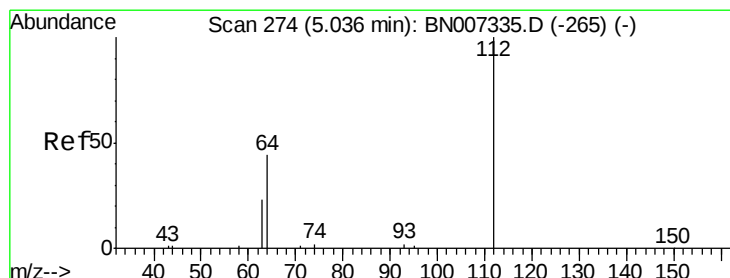
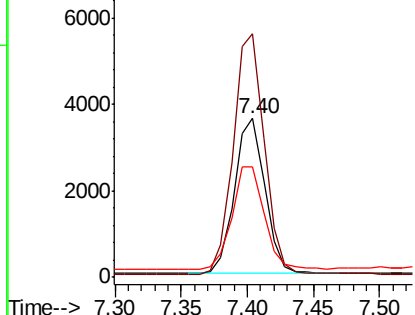
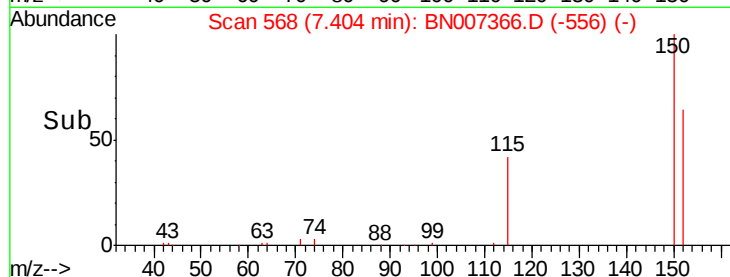
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.40 min Scan# 568
Delta R.T. -0.00 min
Lab File: BN007366.D
Acq: 24 Aug 2019 16:43

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

Tgt Ion:152 Resp: 5748
Ion Ratio Lower Upper
152 100
150 153.3 109.1 163.7
115 69.4 59.6 89.4



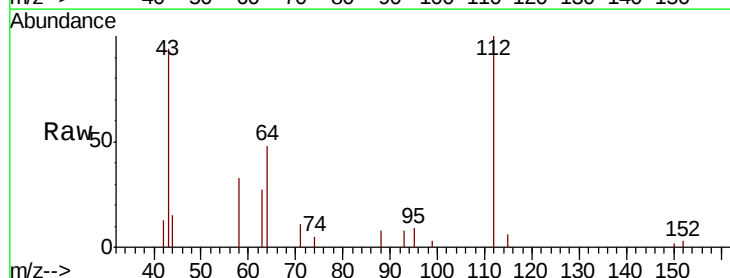
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



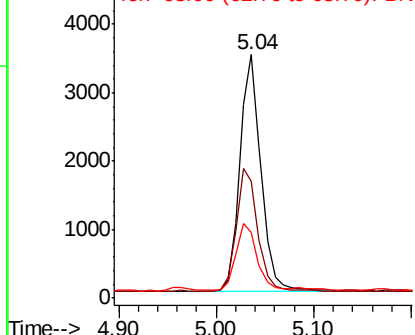
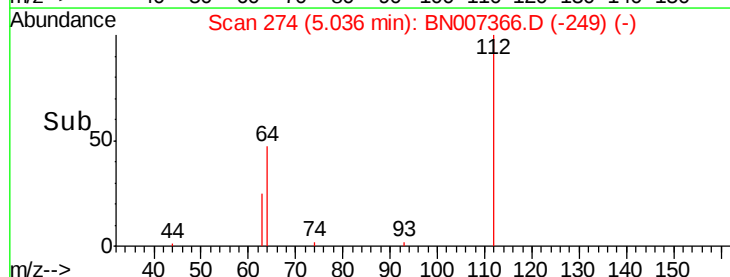
#4

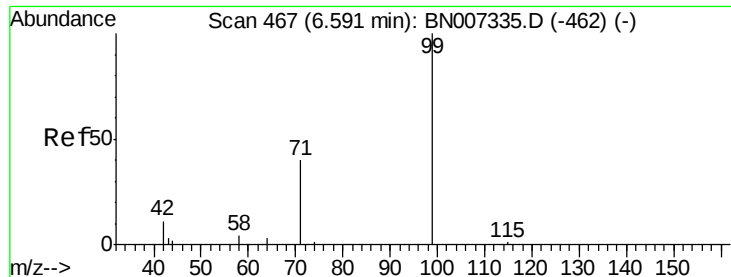
2-Fluorophenol
Concen: 0.252 ng
RT: 5.04 min Scan# 274
Delta R.T. 0.00 min
Lab File: BN007366.D
Acq: 24 Aug 2019 16:43

Tgt Ion:112 Resp: 5233
Ion Ratio Lower Upper
112 100
64 53.6 42.3 63.5
63 28.3 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: 0.259 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

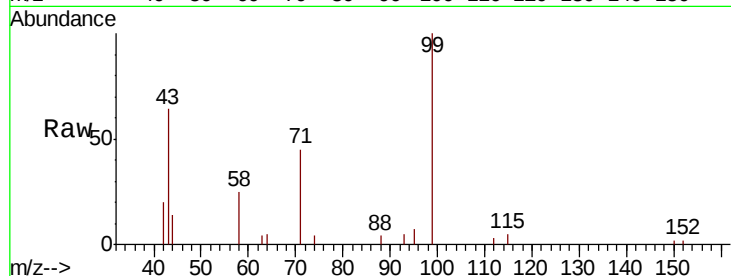
Tgt Ion: 99 Resp: 6847

Ion Ratio Lower Upper

99 100

42 17.1 11.2 16.8#

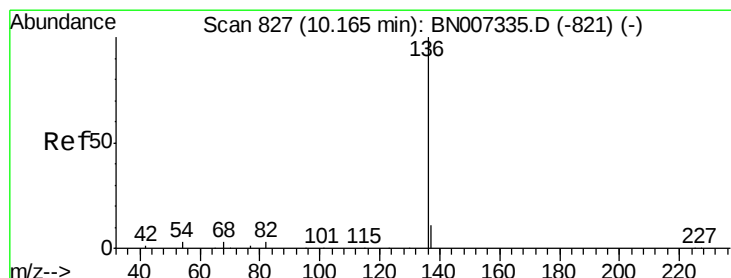
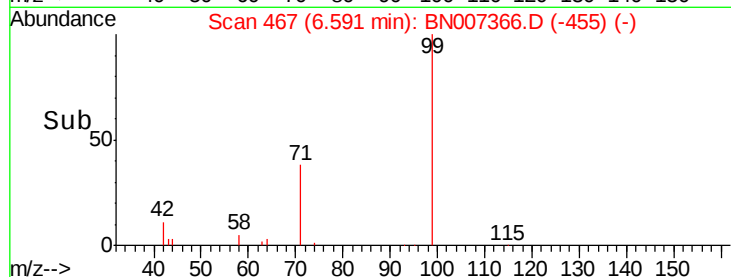
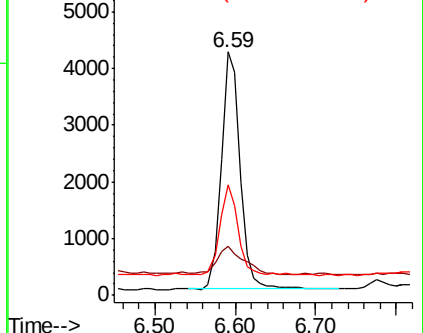
71 35.4 31.8 47.8



Abundance Ion 99.00 (98.70 to 99.70): BN007335.D (-462) (-)

Ion 42.00 (41.70 to 42.70): BN007335.D (-462) (-)

Ion 71.00 (70.70 to 71.70): BN007335.D (-462) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Tgt Ion: 136 Resp: 24550

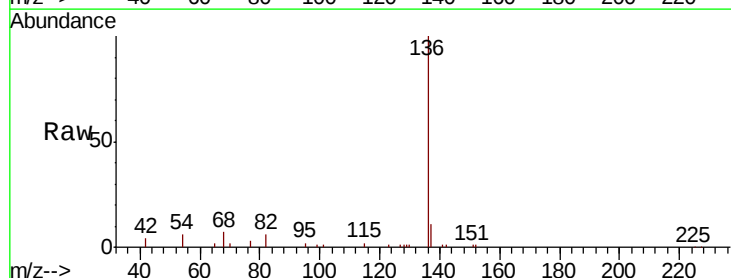
Ion Ratio Lower Upper

136 100

137 11.4 12.9 19.3#

54 5.8 8.6 12.8#

68 7.3 17.0 25.4#

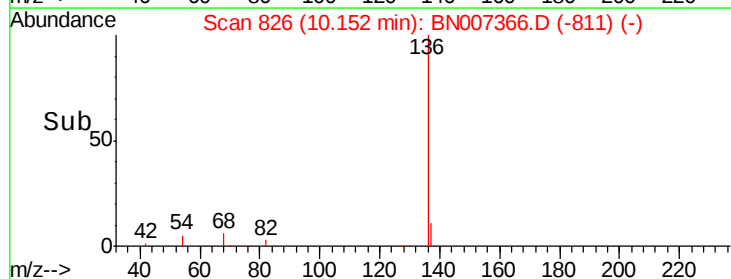
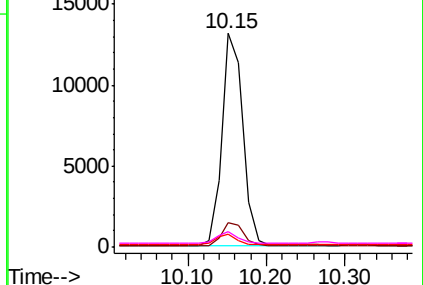


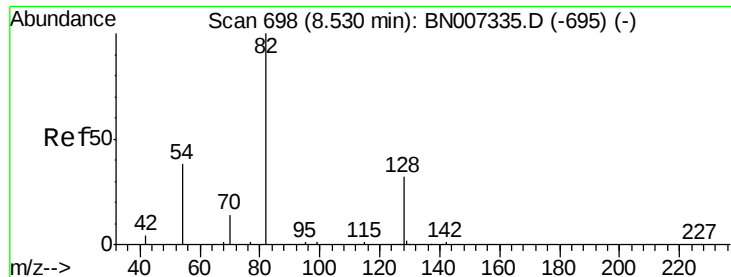
Abundance Ion 136.00 (135.70 to 136.70): BN007335.D (-821) (-)

Ion 137.00 (136.70 to 137.70): BN007335.D (-821) (-)

Ion 54.00 (53.70 to 54.70): BN007335.D (-821) (-)

Ion 68.00 (67.70 to 68.70): BN007335.D (-821) (-)





#8

Nitrobenzene-d5

Concen: 0.244 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

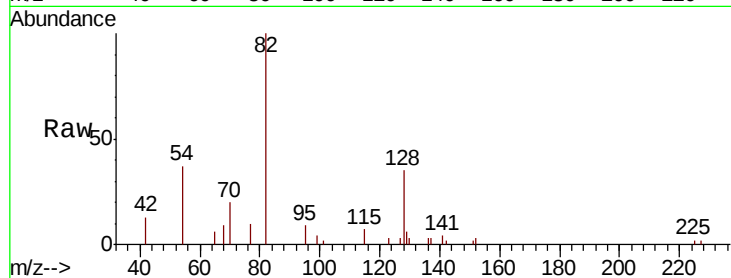
Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

Tgt Ion:	82	Resp:	5213
Ion	Ratio	Lower	Upper
82	100		
128	35.1	19.7	29.5#
54	36.6	25.8	38.6

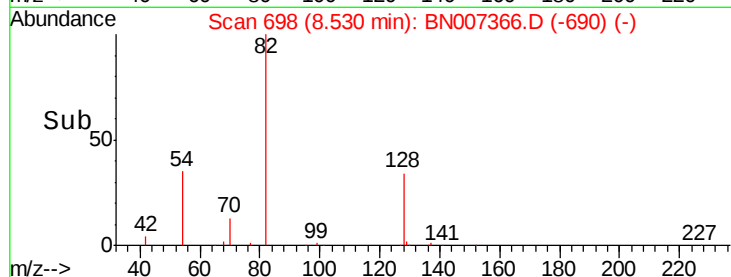


Abundance Ion 82.00 (81.70 to 82.70): BN007335.D (-695) (-)

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

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

Time-->



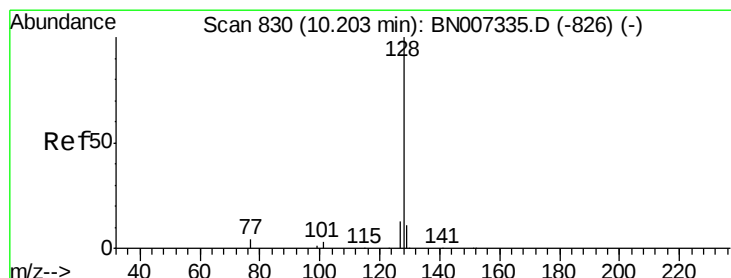
Abundance

Ion 82.00 (81.70 to 82.70): BN007366.D (-690) (-)

Ion 128.00 (127.70 to 128.70): BN007366.D (-690) (-)

Ion 54.00 (53.70 to 54.70): BN007366.D (-690) (-)

Time-->



#9

Naphthalene

Concen: 0.038 ng

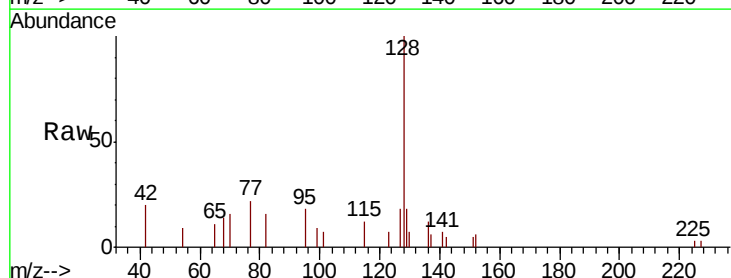
RT: 10.20 min Scan# 830

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Tgt Ion:	128	Resp:	2662
Ion	Ratio	Lower	Upper
128	100		
129	17.7	11.1	16.7#
127	18.0	15.5	23.3

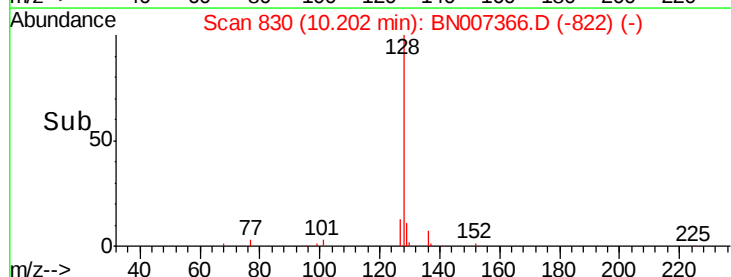


Abundance Ion 128.00 (127.70 to 128.70): BN007335.D (-826) (-)

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

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

Time-->



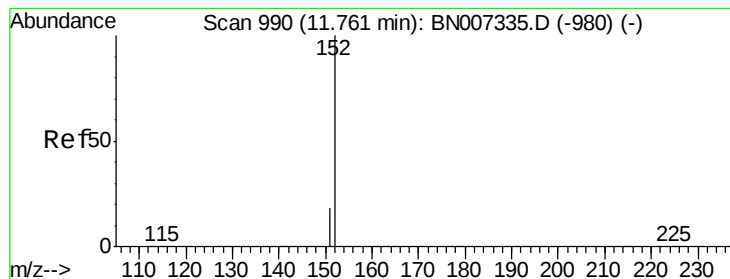
Abundance

Ion 128.00 (127.70 to 128.70): BN007366.D (-822) (-)

Ion 129.00 (128.70 to 129.70): BN007366.D (-822) (-)

Ion 127.00 (126.70 to 127.70): BN007366.D (-822) (-)

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.244 ng

RT: 11.76 min Scan# 989

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

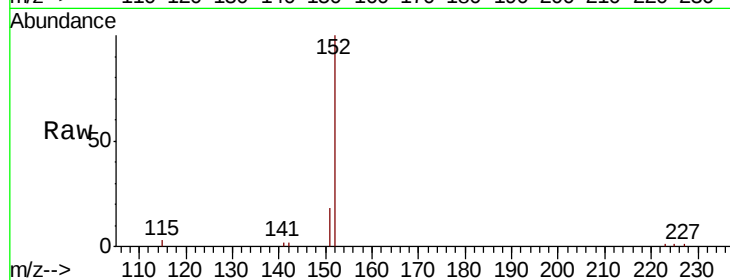
S302-J-2.0-2.5-082019

Tgt Ion:152 Resp: 9967

Ion Ratio Lower Upper

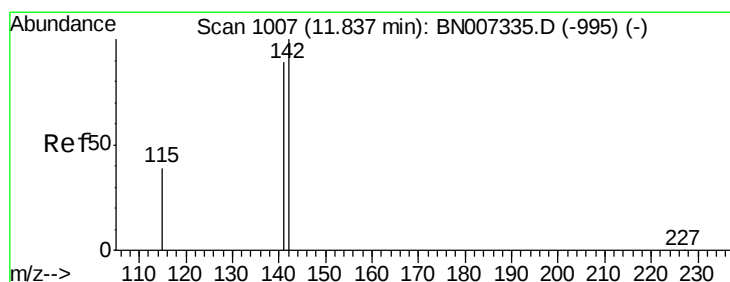
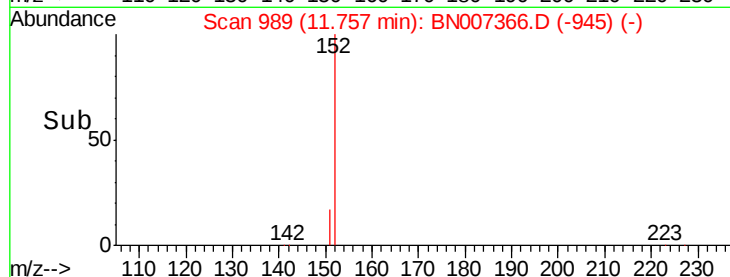
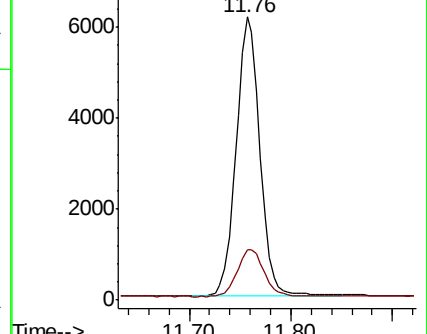
152 100

151 18.8 16.2 24.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.038 ng

RT: 11.83 min Scan# 1006

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

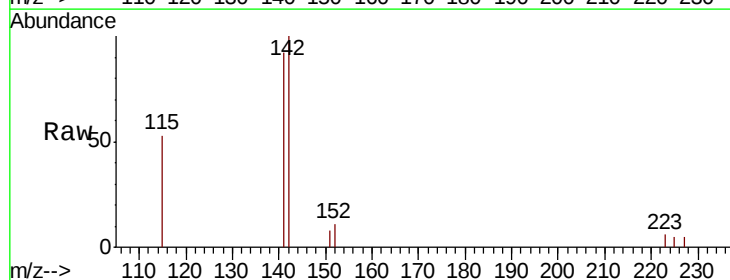
Tgt Ion:142 Resp: 1799

Ion Ratio Lower Upper

142 100

141 92.2 72.8 109.2

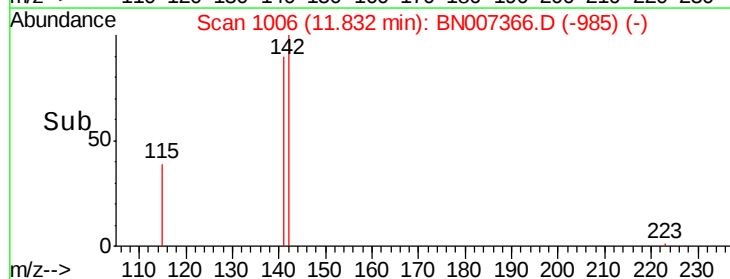
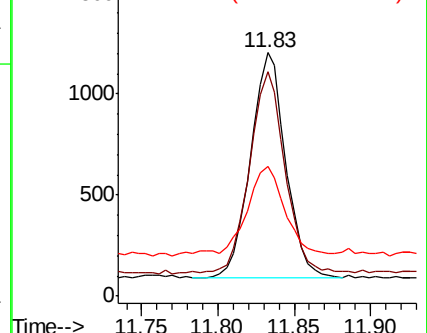
115 53.0 35.2 52.8#

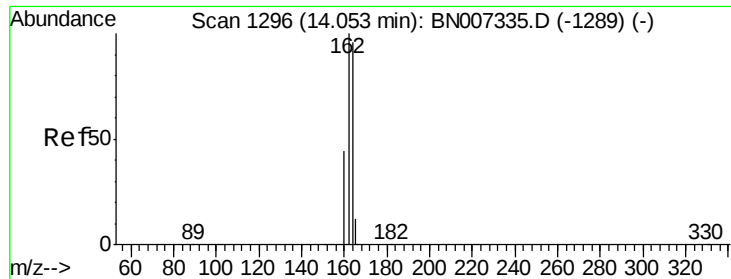


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

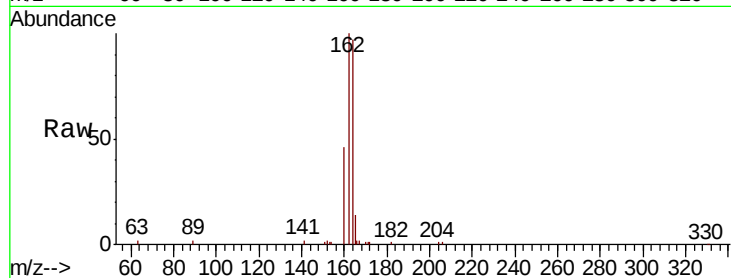
Tgt Ion:164 Resp: 13625

Ion Ratio Lower Upper

164 100

162 103.2 83.5 125.3

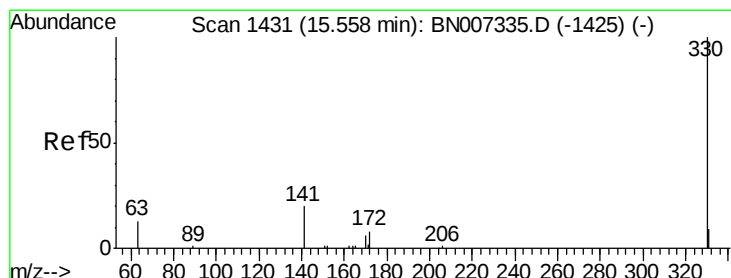
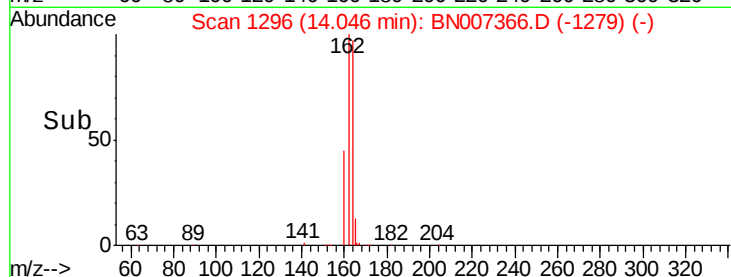
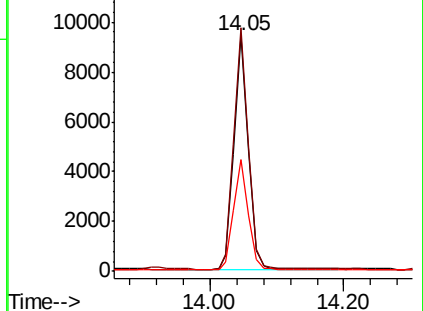
160 47.3 38.2 57.4



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: 0.258 ng

RT: 15.55 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

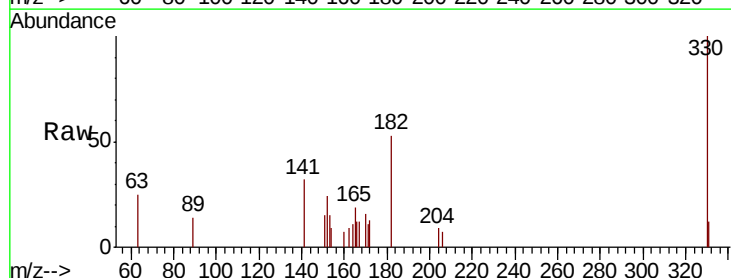
Tgt Ion:330 Resp: 1839

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

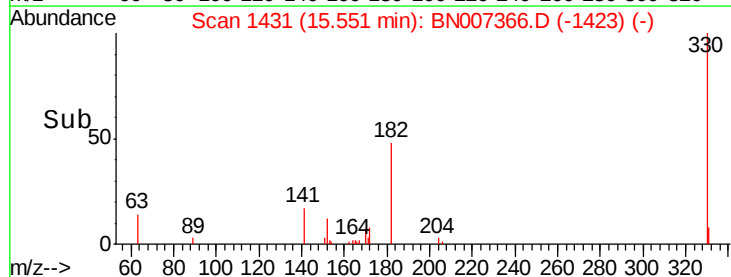
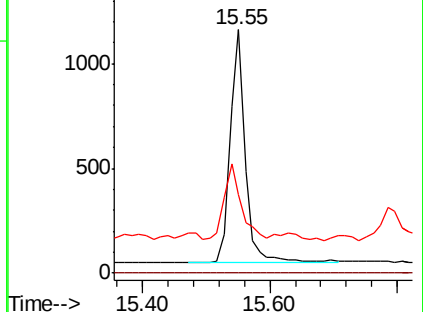
141 35.8 26.9 40.3

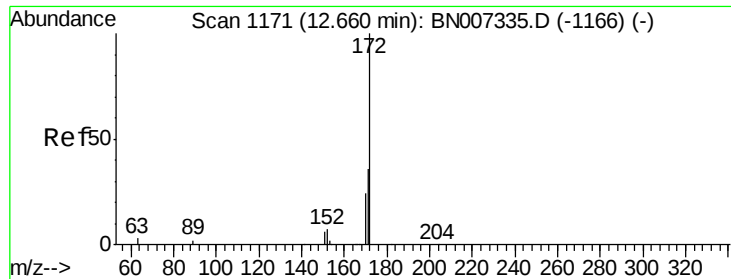


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

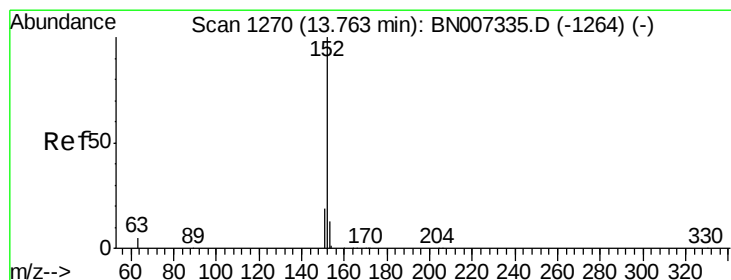
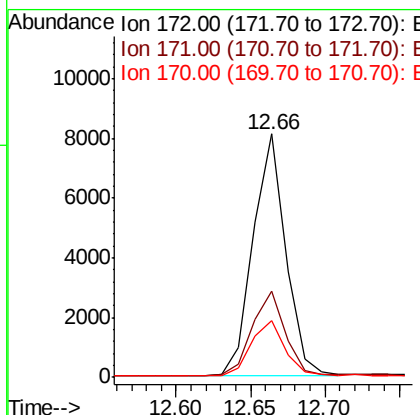
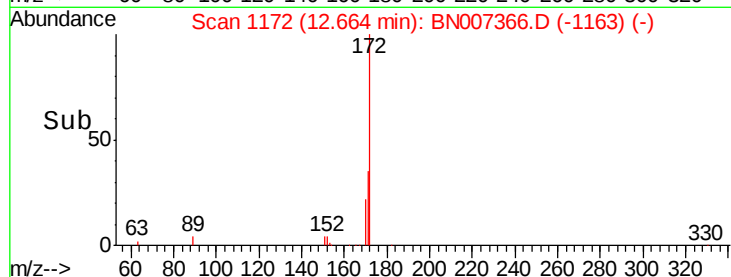
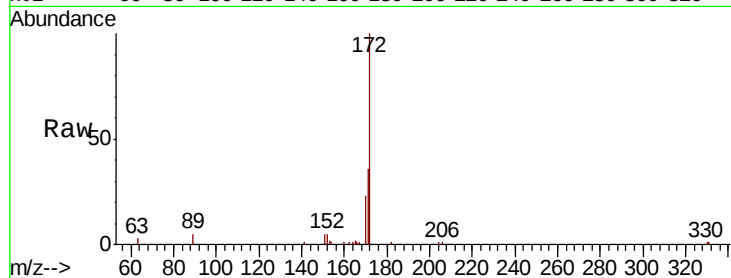




#15
2-Fluorobiphenyl
Concen: 0.224 ng
RT: 12.66 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007366.D
Acq: 24 Aug 2019 16:43

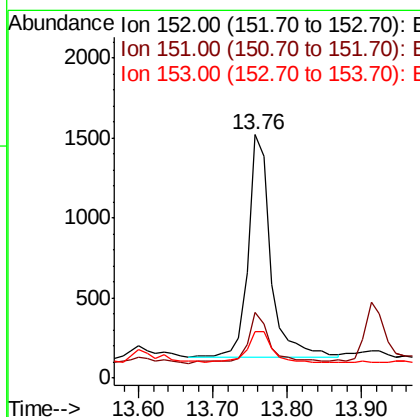
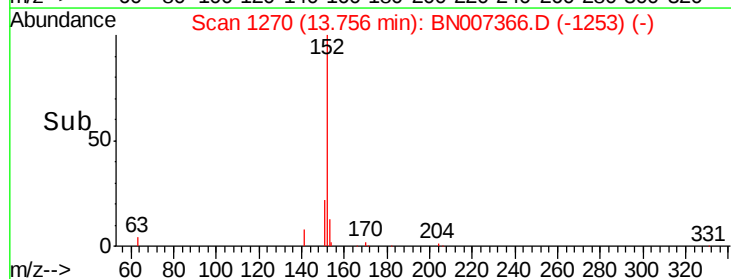
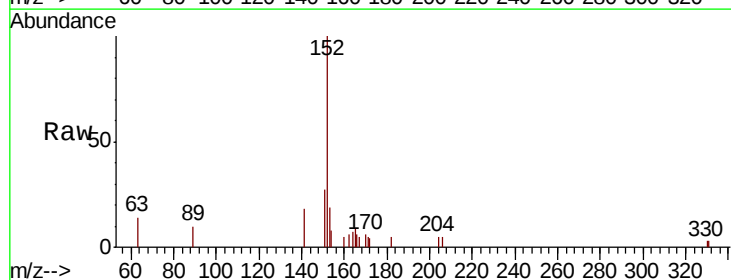
Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019

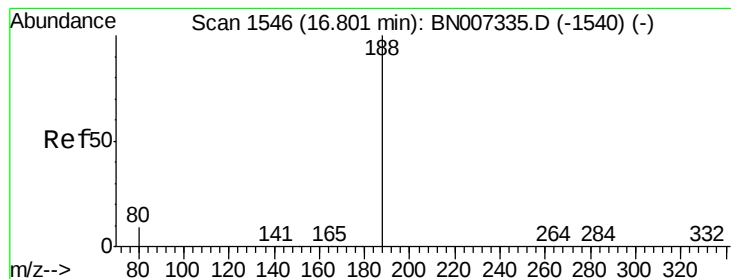
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	30.3	45.5
170	23.1	20.7	31.1



#16
Acenaphthylene
Concen: 0.036 ng
RT: 13.76 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BN007366.D
Acq: 24 Aug 2019 16:43

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.1	24.1
153	16.0	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: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

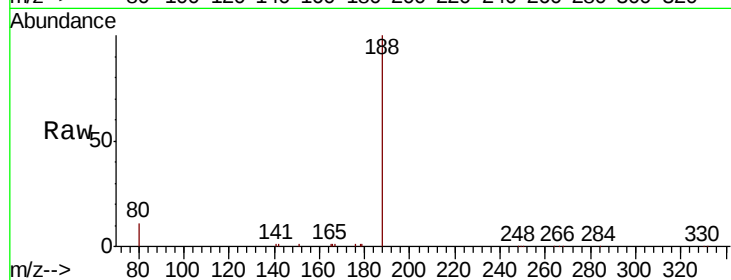
Tgt Ion:188 Resp: 30412

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

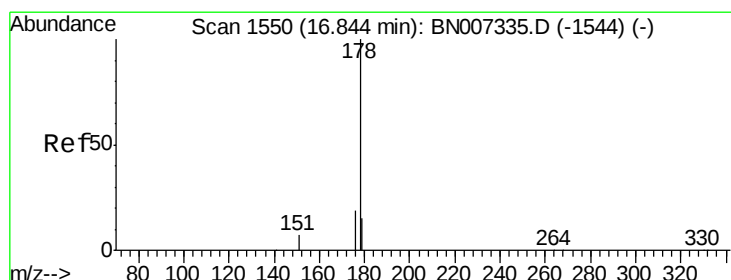
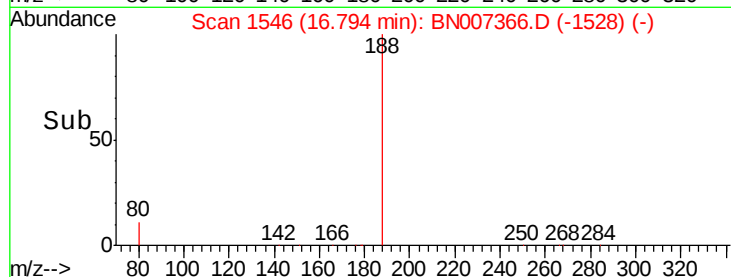
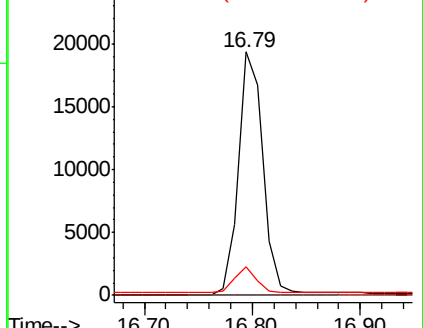
80 11.5 11.8 17.8#



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: 0.215 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

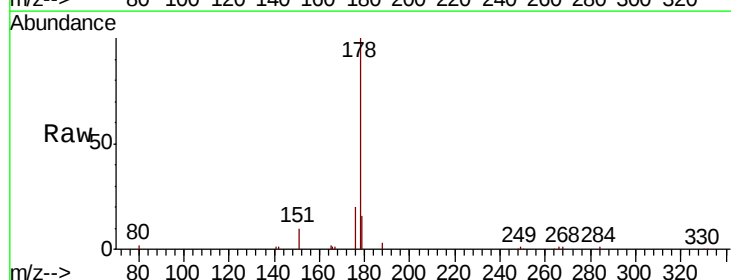
Tgt Ion:178 Resp: 19633

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

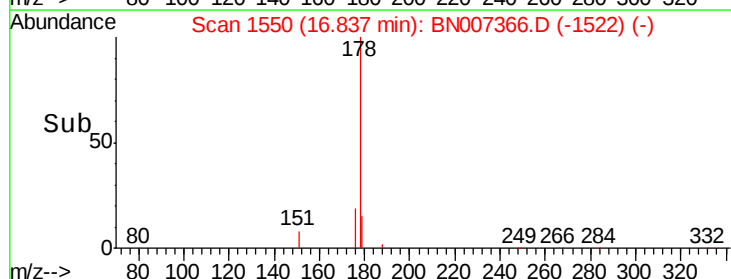
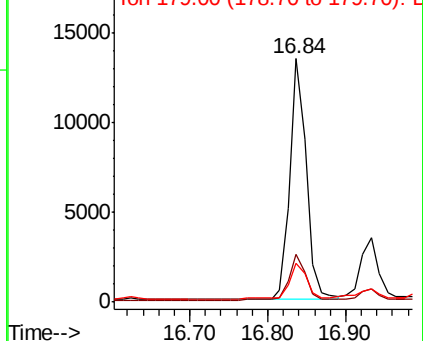
179 15.1 12.6 19.0

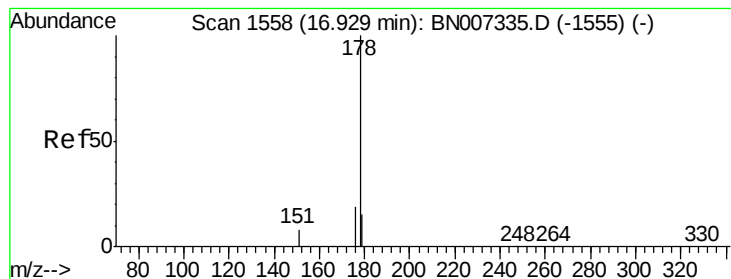


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.054 ng

RT: 16.93 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

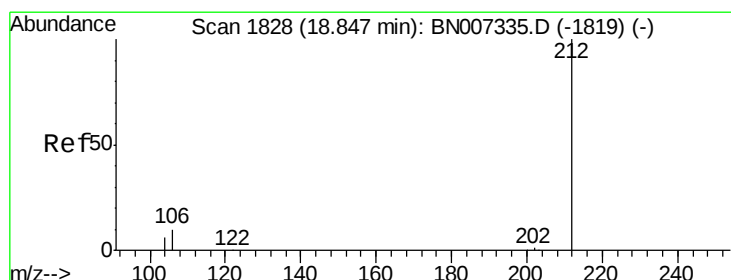
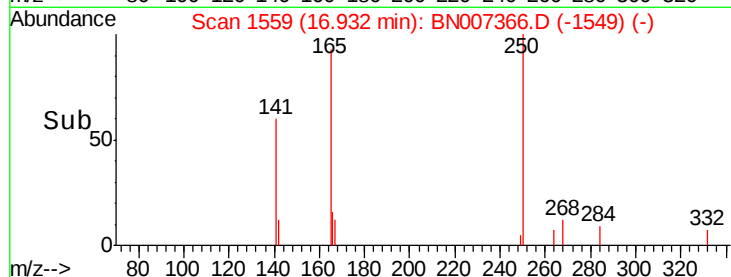
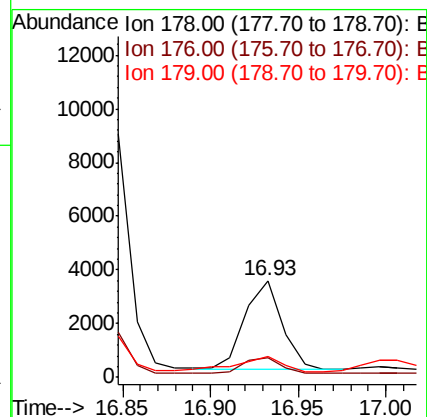
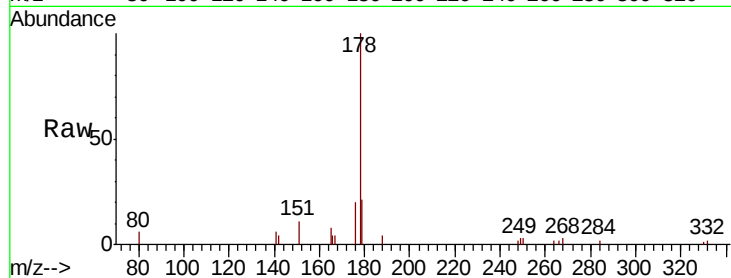
Tgt Ion:178 Resp: 4948

Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 20.5 12.4 18.6#



#25

Fluoranthene-d10

Concen: 0.198 ng

RT: 18.84 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

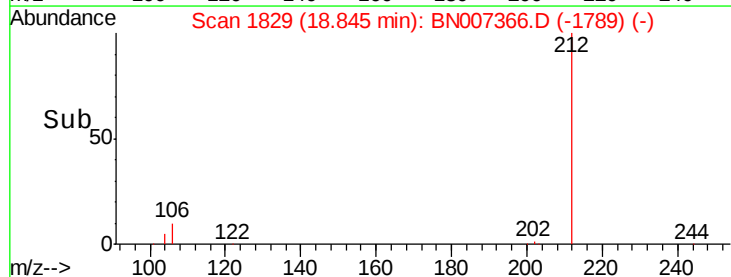
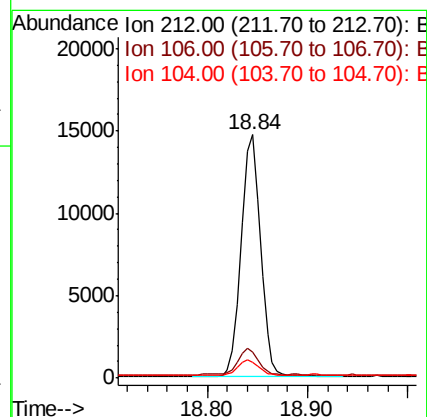
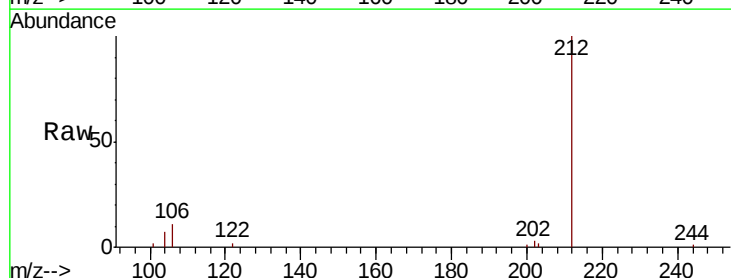
Tgt Ion:212 Resp: 19369

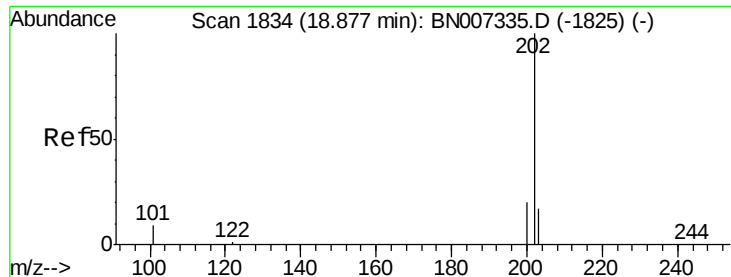
Ion Ratio Lower Upper

212 100

106 10.7 9.0 13.4

104 6.5 5.4 8.2

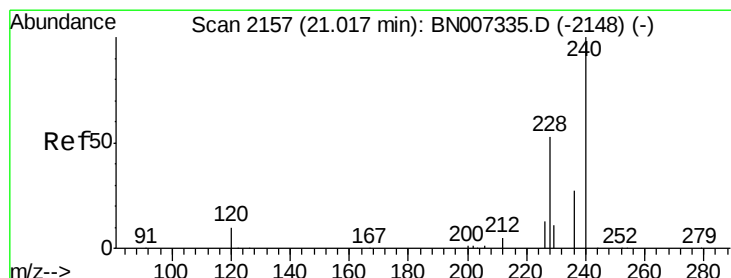
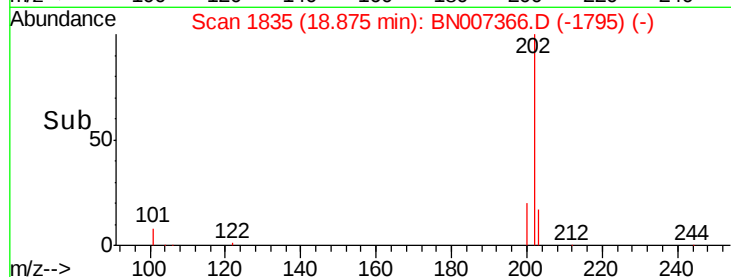
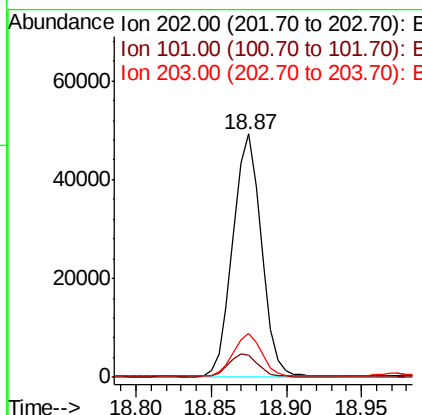
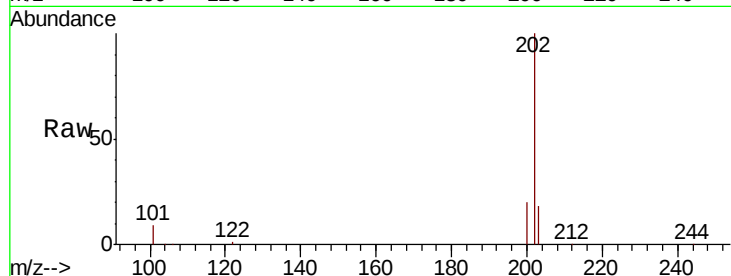




#26
 Fluoranthene
 Concen: 0.550 ng
 RT: 18.87 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: BN007366.D
 Acq: 24 Aug 2019 16:43

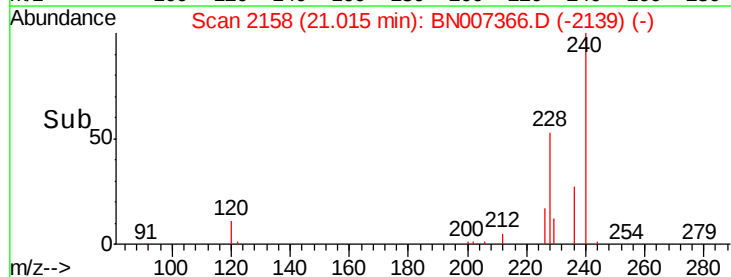
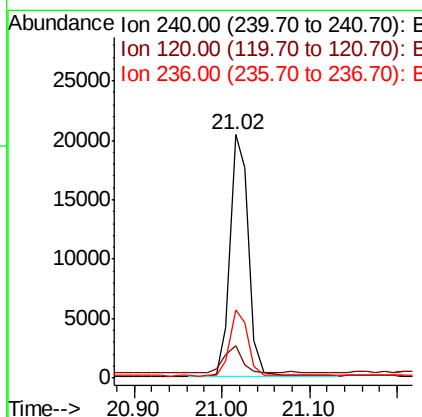
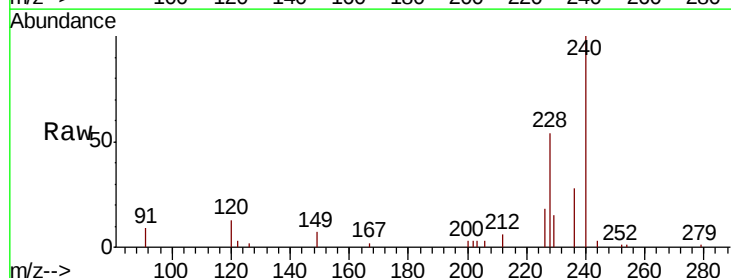
Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019

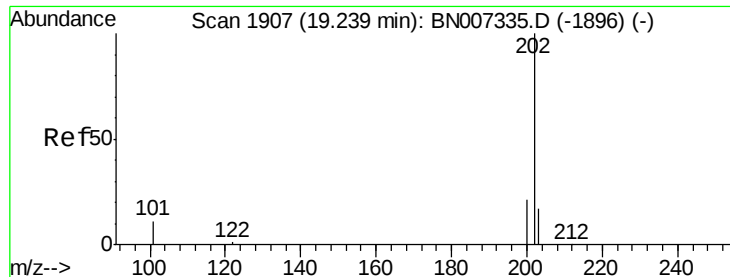
Tgt Ion: 202 Resp: 64549
 Ion Ratio Lower Upper
 202 100
 101 9.5 7.7 11.5
 203 17.4 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.02 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BN007366.D
 Acq: 24 Aug 2019 16:43

Tgt Ion: 240 Resp: 29286
 Ion Ratio Lower Upper
 240 100
 120 13.2 9.6 14.4
 236 27.9 22.2 33.2

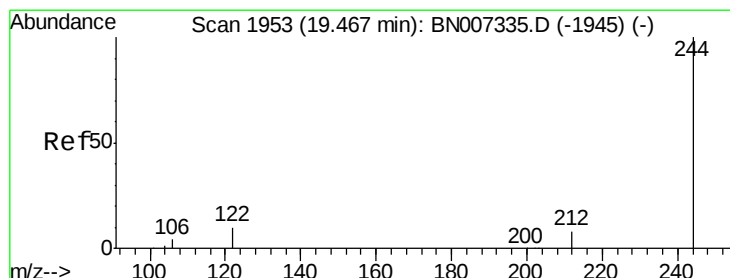
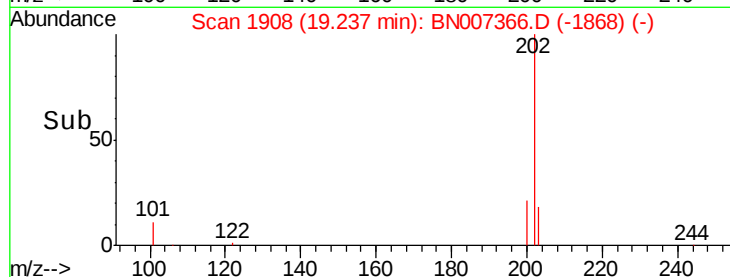
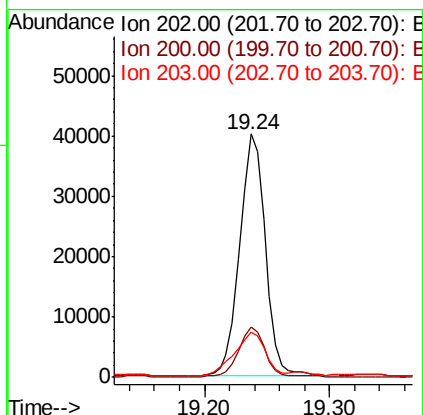
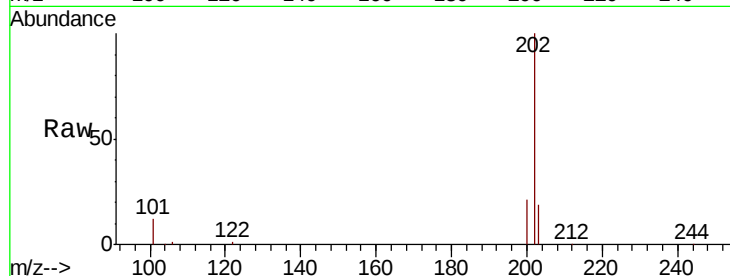




#28
Pyrene
Concen: 0.484 ng
RT: 19.24 min Scan# 1908
Delta R.T. -0.00 min
Lab File: BN007366.D
Acq: 24 Aug 2019 16:43

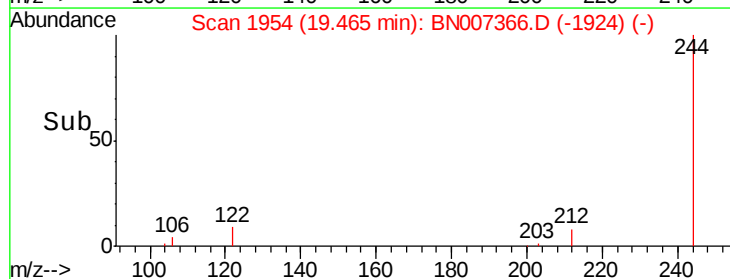
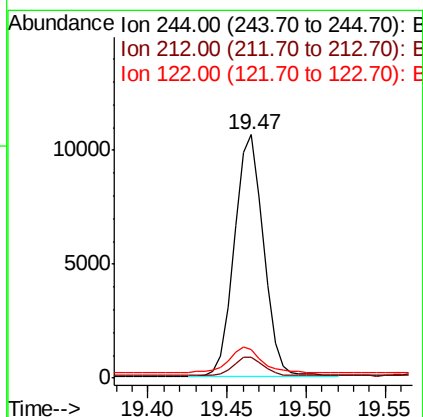
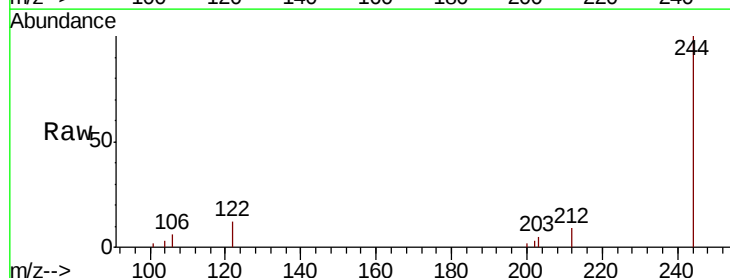
Instrument :
BNA_N
ClientSampleId :
S302-J-2.0-2.5-082019

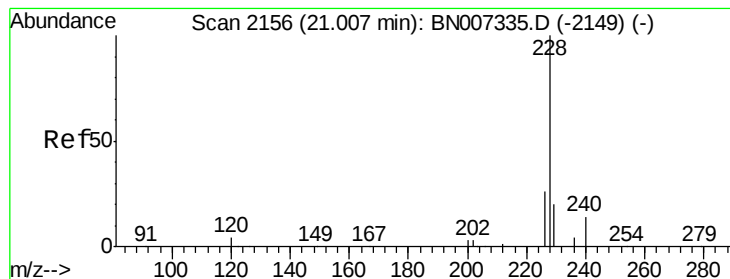
Tgt Ion:202 Resp: 57010
Ion Ratio Lower Upper
202 100
200 20.7 16.6 25.0
203 21.7 14.2 21.4#



#29
Terphenyl-d14
Concen: 0.176 ng
RT: 19.47 min Scan# 1954
Delta R.T. -0.00 min
Lab File: BN007366.D
Acq: 24 Aug 2019 16:43

Tgt Ion:244 Resp: 13507
Ion Ratio Lower Upper
244 100
212 8.6 7.0 10.6
122 11.7 9.6 14.4





#30

Benzo(a)anthracene

Concen: 0.335 ng

RT: 21.00 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

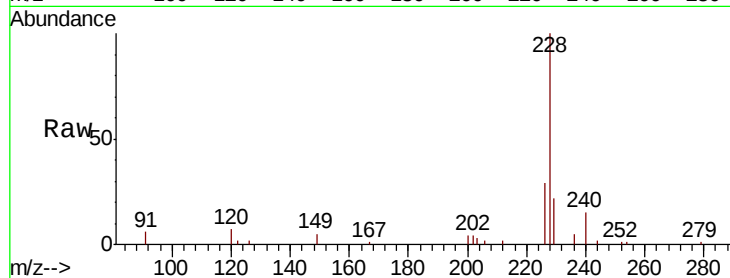
Tgt Ion:228 Resp: 38567

Ion Ratio Lower Upper

228 100

226 28.8 21.3 31.9

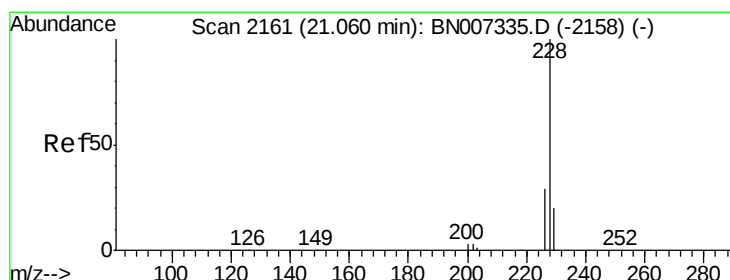
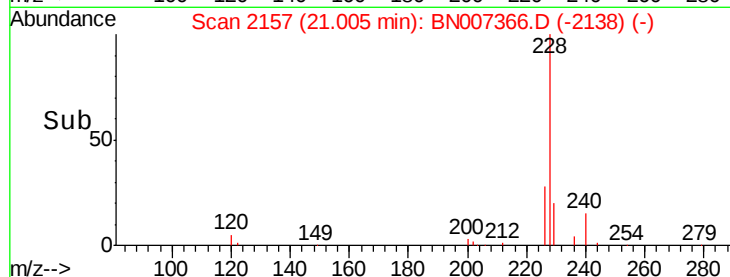
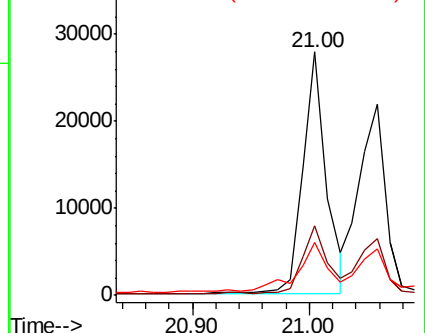
229 21.8 16.1 24.1



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: 0.300 ng

RT: 21.06 min Scan# 2162

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

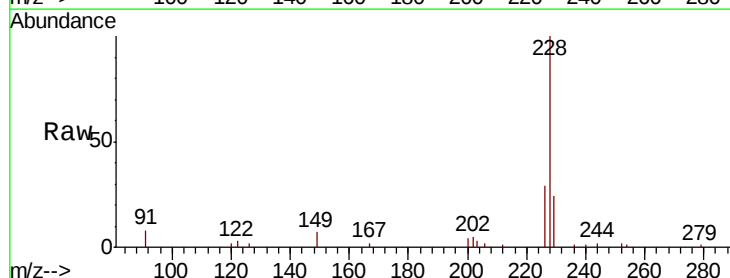
Tgt Ion:228 Resp: 33334

Ion Ratio Lower Upper

228 100

226 29.5 23.5 35.3

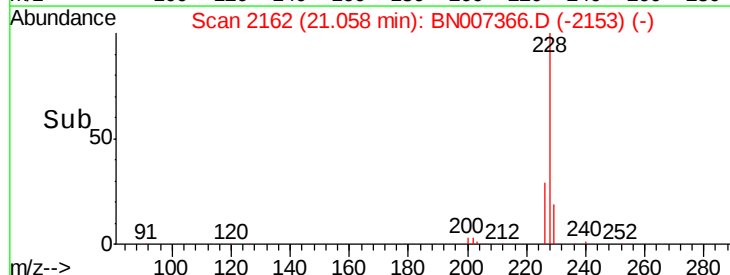
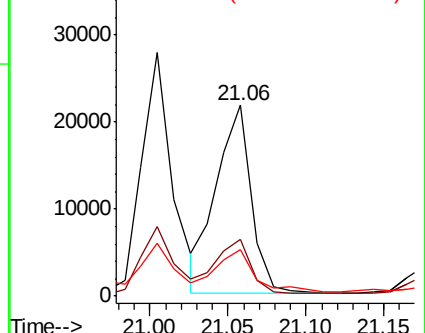
229 24.3 16.6 24.8

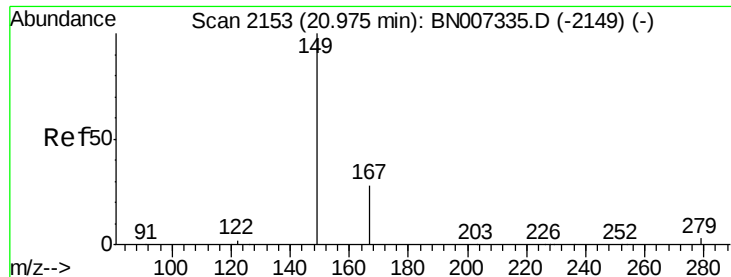


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.370 ng

RT: 20.97 min Scan# 2154

Delta R.T. -0.00 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

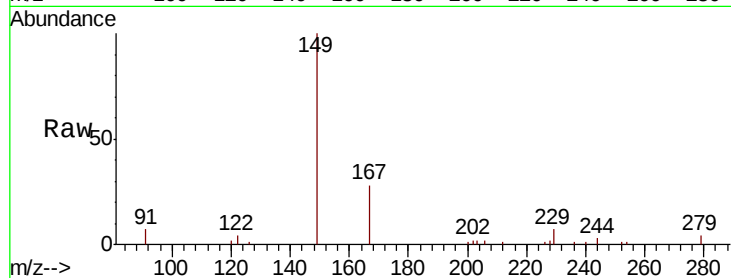
Tgt Ion:149 Resp: 28961

Ion Ratio Lower Upper

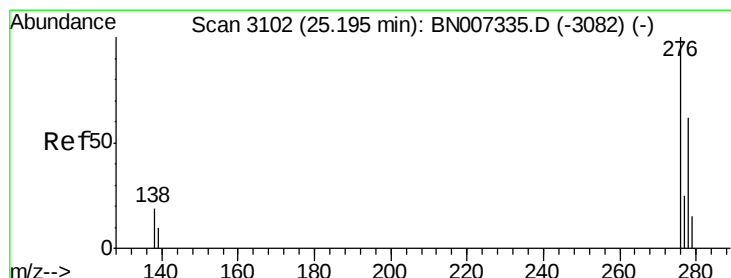
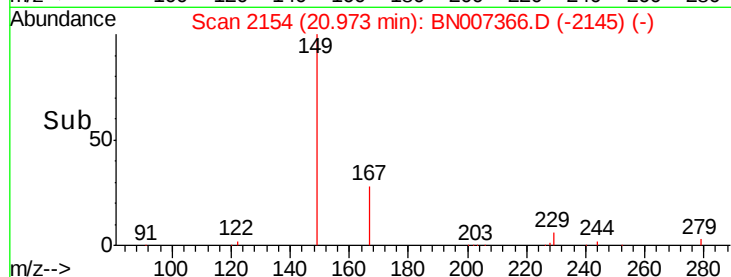
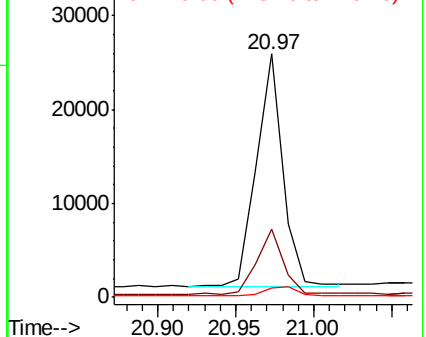
149 100

167 27.5 22.8 34.2

279 4.8 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: 0.193 ng

RT: 25.19 min Scan# 3102

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

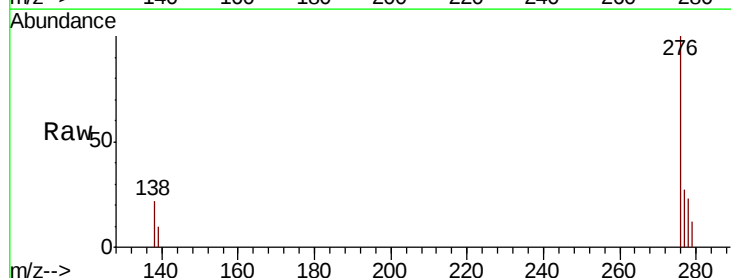
Tgt Ion:276 Resp: 25846

Ion Ratio Lower Upper

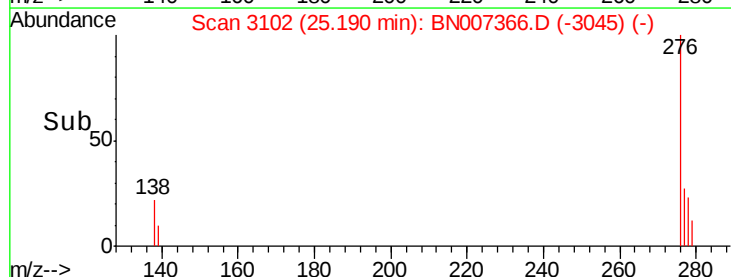
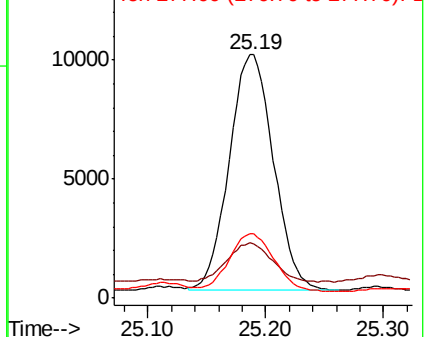
276 100

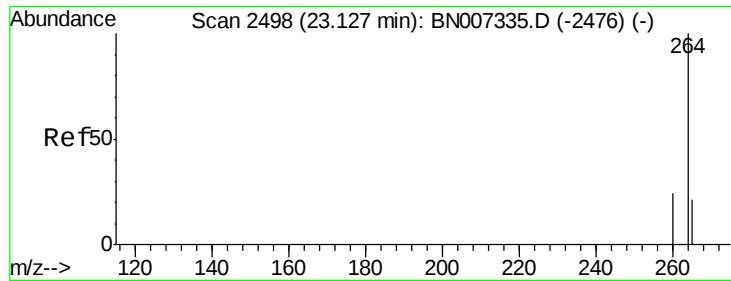
138 16.5 15.1 22.7

277 24.9 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

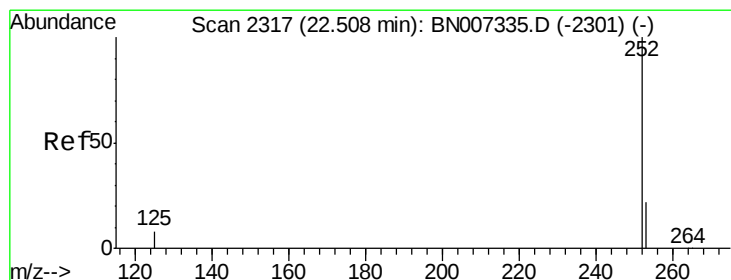
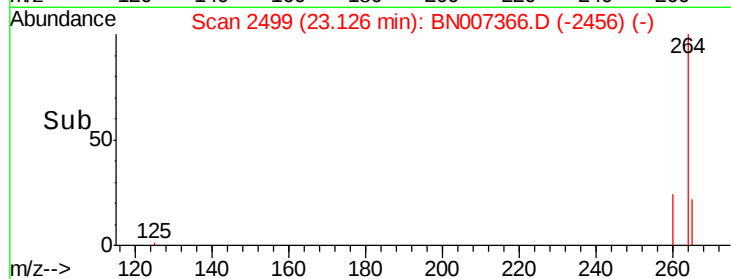
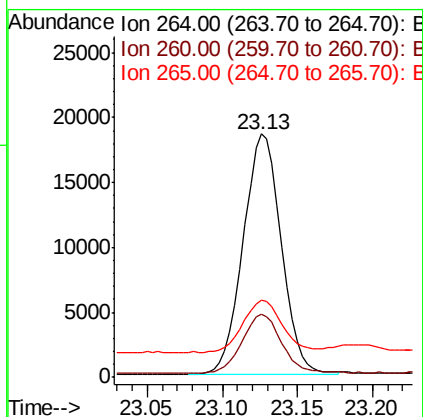
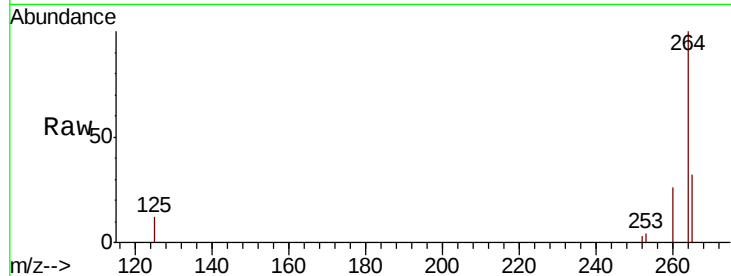




#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.13 min Scan# 2499
 Delta R.T. -0.00 min
 Lab File: BN007366.D
 Acq: 24 Aug 2019 16:43

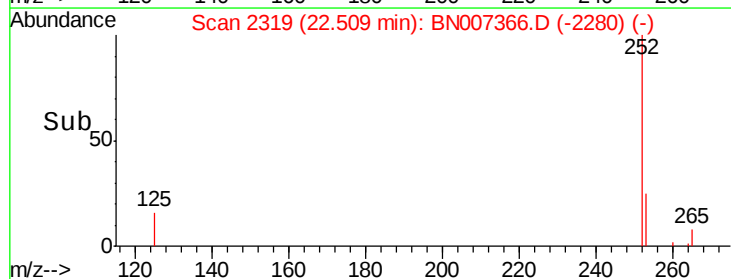
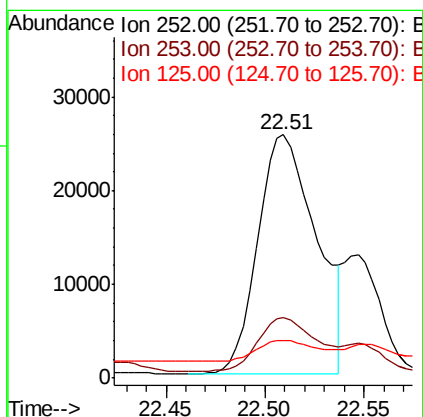
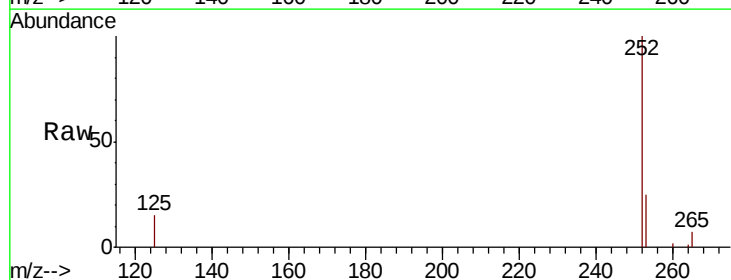
Instrument :
 BNA_N
 ClientSampleId :
 S302-J-2.0-2.5-082019

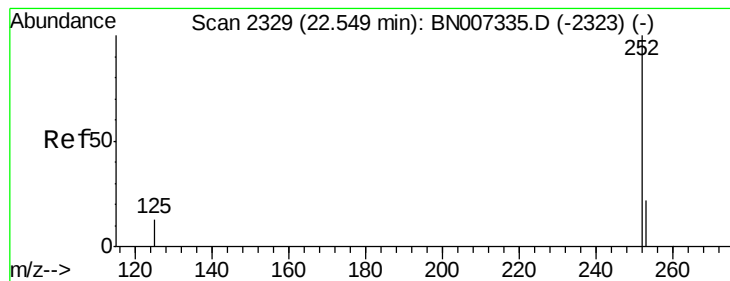
Tgt Ion:264 Resp: 32161
 Ion Ratio Lower Upper
 264 100
 260 26.1 19.7 29.5
 265 31.8 29.9 44.9



#35
 Benzo(b)fluoranthene
 Concen: 0.450 ng
 RT: 22.51 min Scan# 2319
 Delta R.T. 0.00 min
 Lab File: BN007366.D
 Acq: 24 Aug 2019 16:43

Tgt Ion:252 Resp: 52427
 Ion Ratio Lower Upper
 252 100
 253 24.8 19.2 28.8
 125 15.3 10.6 16.0





#36

Benzo(k)fluoranthene

Concen: 0.455 ng

RT: 22.51 min Scan# 2319

Delta R.T. -0.04 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

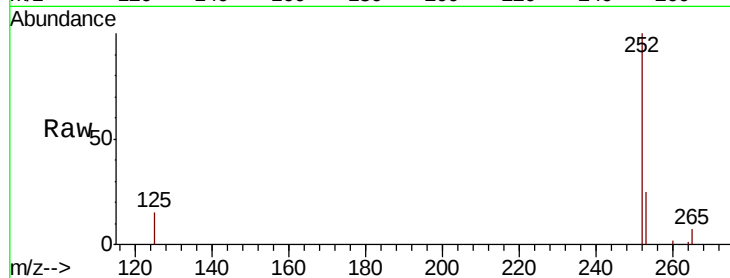
Tgt Ion:252 Resp: 52427

Ion Ratio Lower Upper

252 100

253 24.8 19.4 29.2

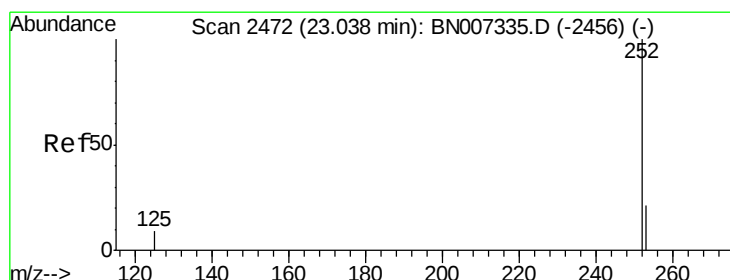
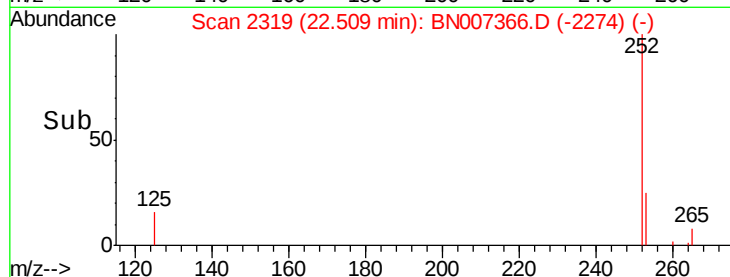
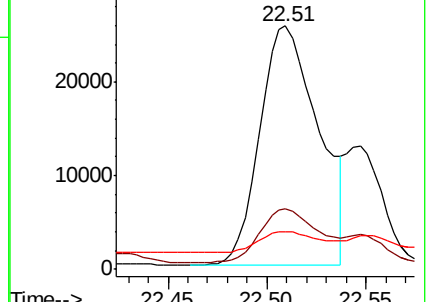
125 15.3 13.1 19.7



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: 0.305 ng

RT: 23.03 min Scan# 2472

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

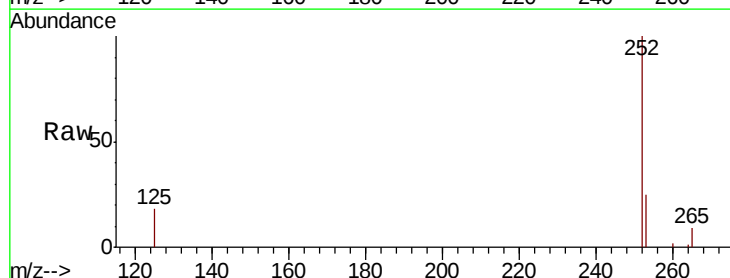
Tgt Ion:252 Resp: 33838

Ion Ratio Lower Upper

252 100

253 25.4 19.5 29.3

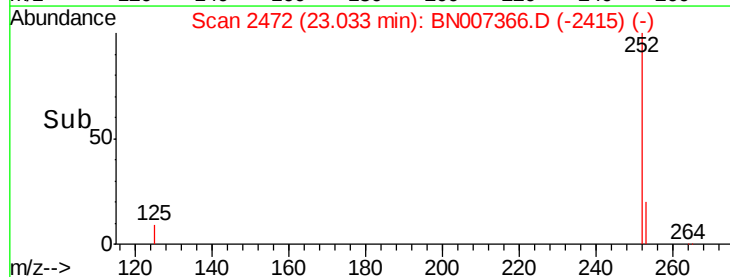
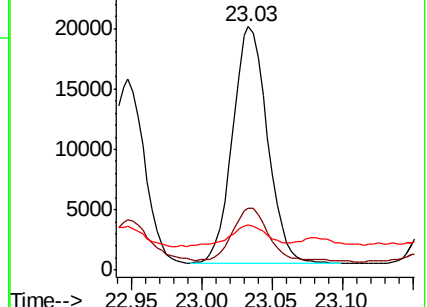
125 18.4 12.1 18.1#

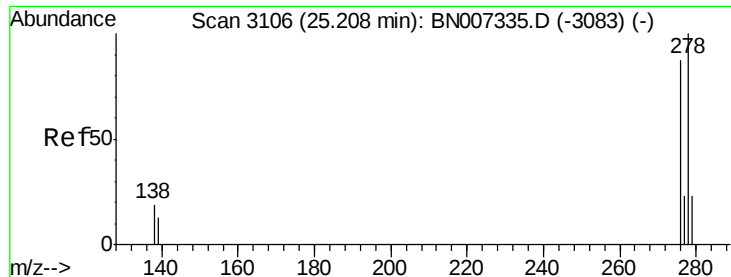


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.061 ng

RT: 25.20 min Scan# 3104

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

Instrument :

BNA_N

ClientSampleId :

S302-J-2.0-2.5-082019

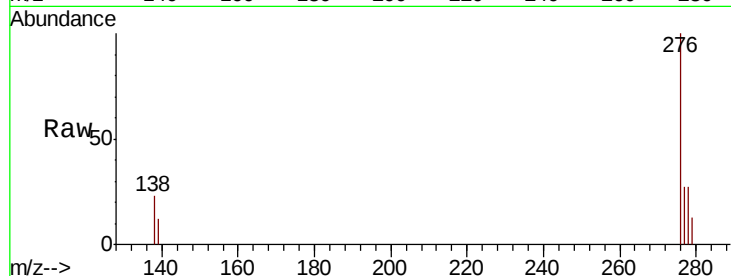
Tgt Ion: 278 Resp: 6781

Ion Ratio Lower Upper

278 100

139 43.4 13.7 20.5#

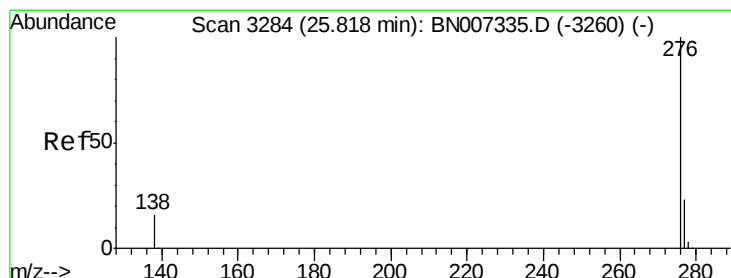
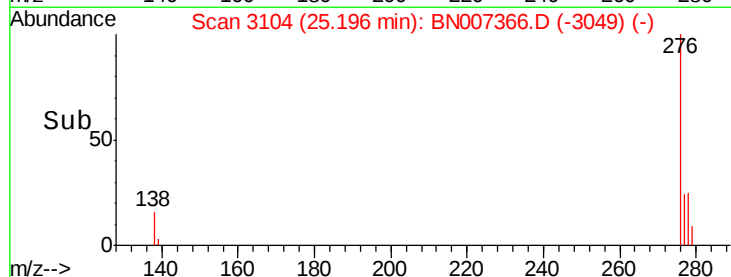
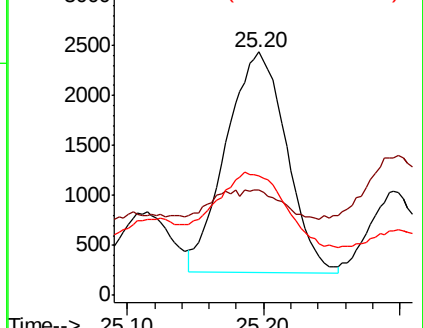
279 48.8 20.2 30.4#



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: 0.234 ng

RT: 25.81 min Scan# 3284

Delta R.T. -0.01 min

Lab File: BN007366.D

Acq: 24 Aug 2019 16:43

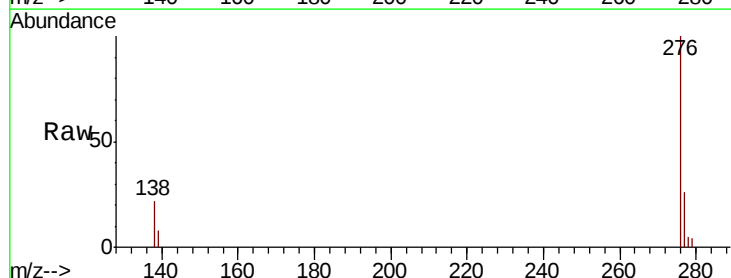
Tgt Ion: 276 Resp: 25766

Ion Ratio Lower Upper

276 100

277 25.8 19.6 29.4

138 22.3 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

