

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN032419\
 Data File : BN004937.D
 Acq On : 24 Mar 2019 14:04
 Operator : JU/SJ
 Sample : K2015-02
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-026-SW040-031919

Quant Time: Mar 25 03:48:52 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN032019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 20 16:06:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	3229	0.40	ng	-0.02
7) Naphthalene-d8	10.47	136	12187	0.40	ng	-0.03
13) Acenaphthene-d10	14.32	164	6370	0.40	ng	-0.02
19) Phenanthrene-d10	17.08	188	12397	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	14925	0.40	ng	-0.01
34) Perylene-d12	23.54	264	13954	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.28	112	4460	0.51	ng	-0.02
5) Phenol-d6	6.86	99	5487	0.50	ng	-0.02
8) Nitrobenzene-d5	8.84	82	4313	0.54	ng	-0.03
11) 2-Methylnaphthalene-d10	12.06	152	8924	0.42	ng	-0.02
14) 2,4,6-Tribromophenol	15.83	330	2607	0.59	ng	-0.02
15) 2-Fluorobiphenyl	12.94	172	12552	0.48	ng	-0.02
25) Fluoranthene-d10	19.11	212	15975	0.38	ng	-0.02
29) Terphenyl-d14	19.71	244	16260	0.53	ng	-0.02

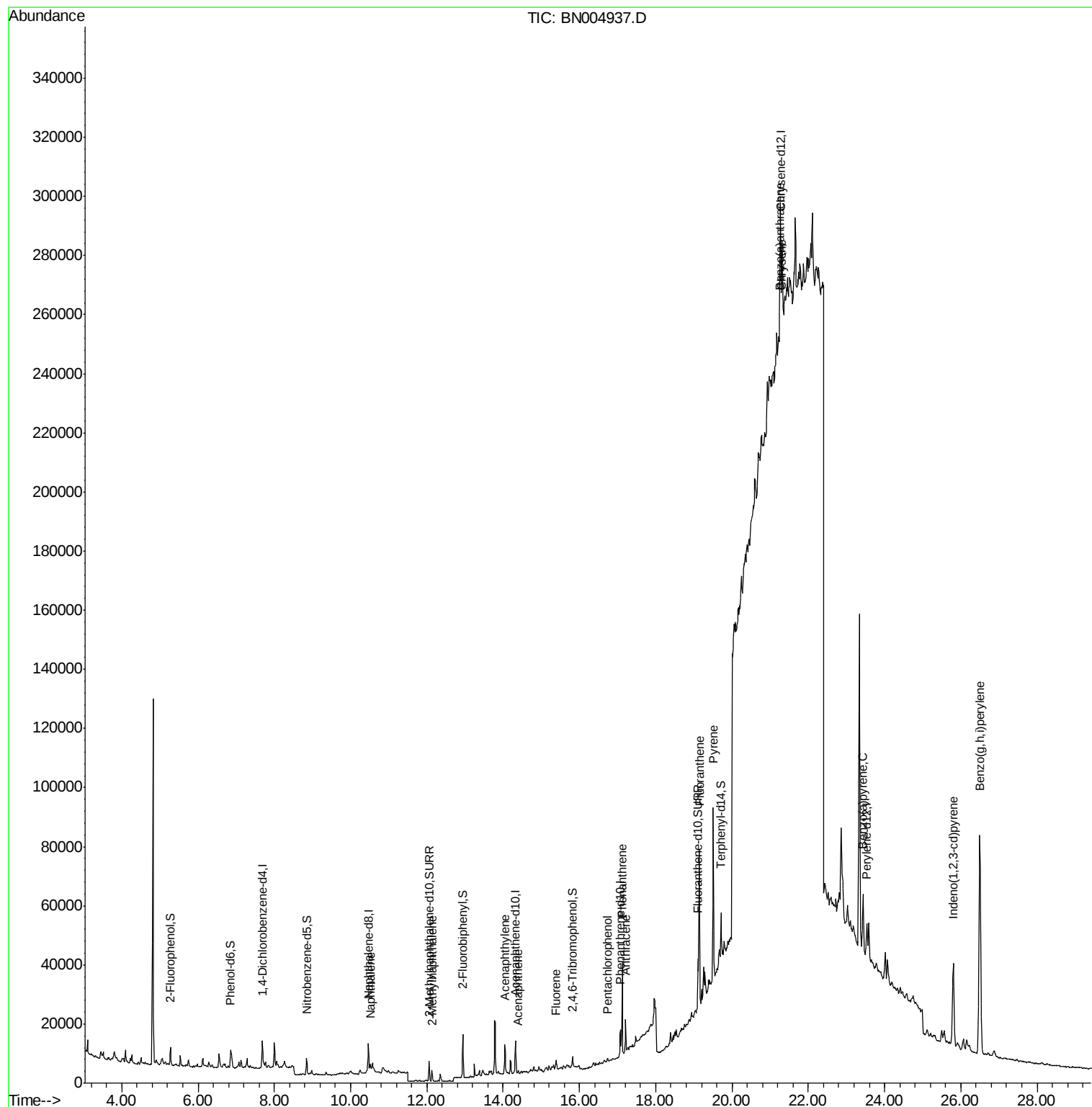
Target Compounds				Qvalue		
9) Naphthalene	10.52	128	3038	0.089	ng	# 90
12) 2-Methylnaphthalene	12.13	142	2691	0.106	ng	# 94
16) Acenaphthylene	14.04	152	12019	0.366	ng	98
17) Acenaphthene	14.39	154	735	0.034	ng	93
18) Fluorene	15.38	166	2399	0.080	ng	# 75
22) Pentachlorophenol	16.74	266	180	0.099	ng	# 79
23) Phenanthrene	17.12	178	35444	0.885	ng	96
24) Anthracene	17.21	178	13398	0.375	ng	97
26) Fluoranthene	19.14	202	49101	0.954	ng	# 95
28) Pyrene	19.51	202	51703	1.136	ng	# 92
30) Benzo(a)anthracene	21.26	228	27611	0.564	ng	# 38
31) Chrysene	21.31	228	27018	0.524	ng	# 45
33) Indeno(1,2,3-cd)pyrene	25.80	276	45470	0.610	ng	98
37) Benzo(a)pyrene	23.43	252	26088	0.563	ng	# 1
39) Benzo(g,h,i)perylene	26.50	276	155009	2.837	ng	# 93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.68 min Scan# 578

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

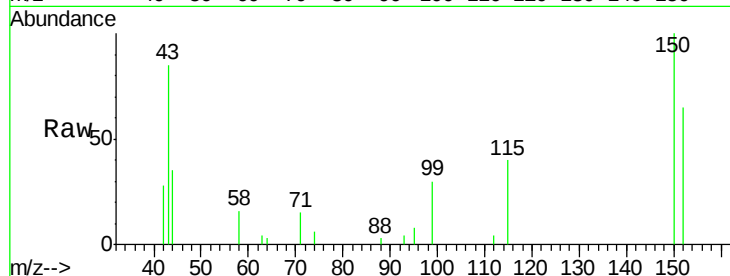
Tgt Ion:152 Resp: 3229

Ion Ratio Lower Upper

152 100

150 154.8 126.2 189.4

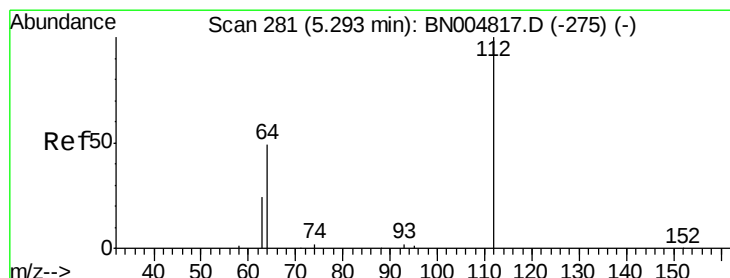
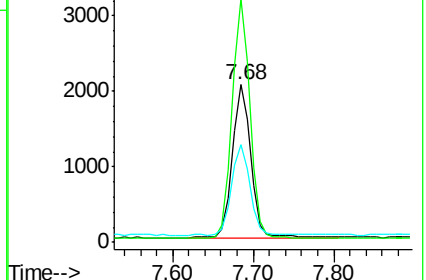
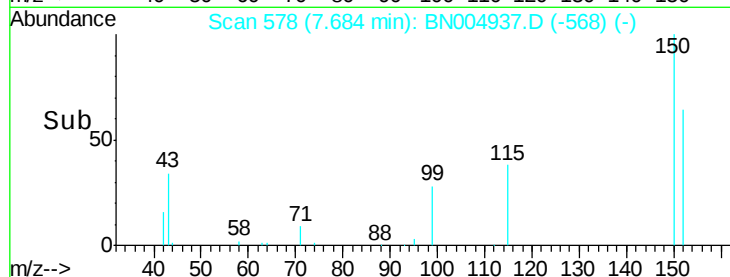
115 62.3 52.6 79.0



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: 0.508 ng

RT: 5.28 min Scan# 279

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

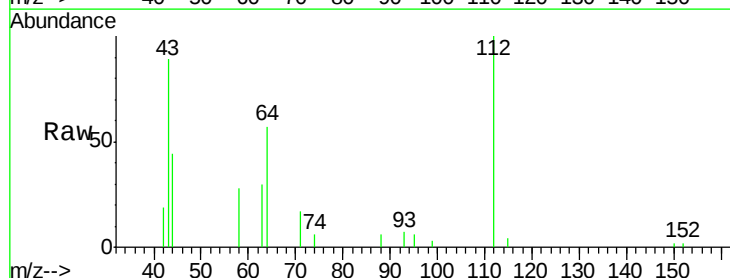
Tgt Ion:112 Resp: 4460

Ion Ratio Lower Upper

112 100

64 51.2 40.0 60.0

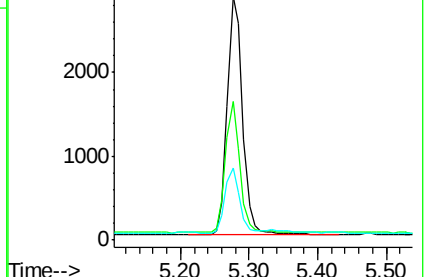
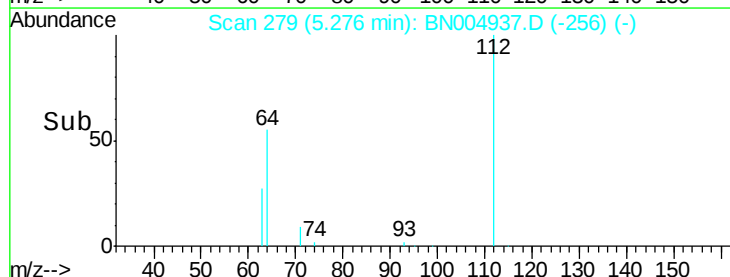
63 25.8 20.2 30.2

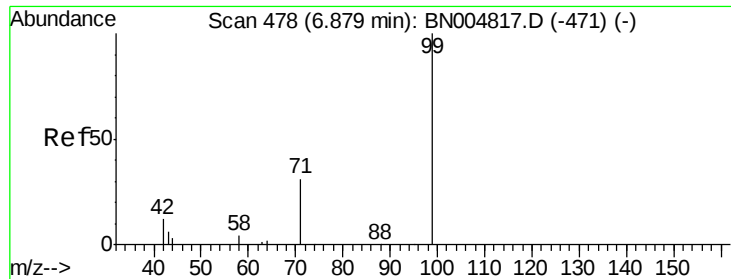


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.502 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

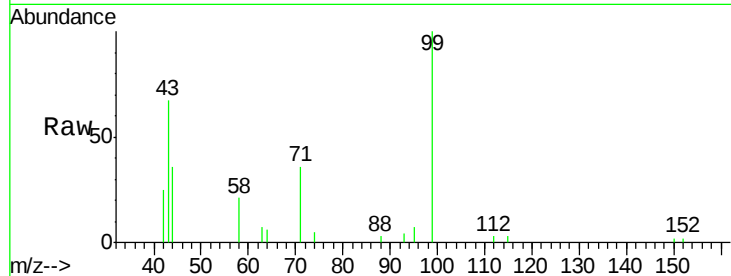
Tgt Ion: 99 Resp: 5487

Ion Ratio Lower Upper

99 100

42 18.9 12.7 19.1

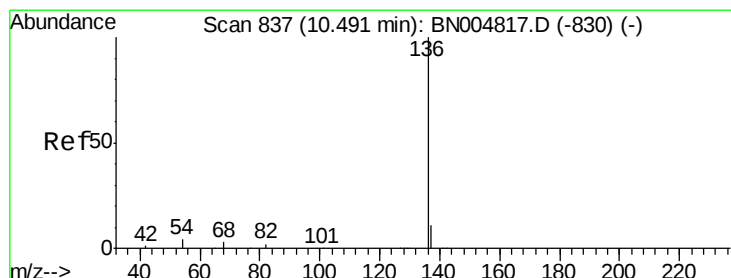
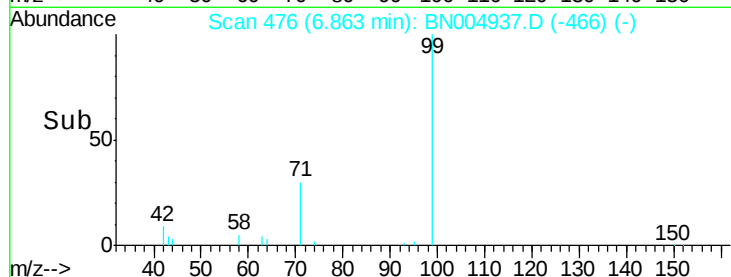
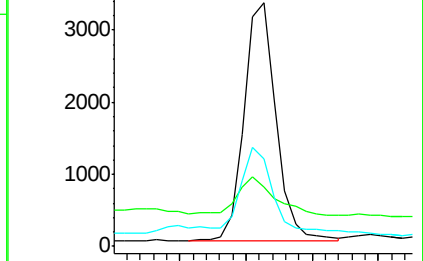
71 40.1 26.6 40.0#



Abundance Ion 99.00 (98.70 to 99.70): BN004817.D (-471) (-)

Ion 42.00 (41.70 to 42.70): BN004817.D (-471) (-)

Ion 71.00 (70.70 to 71.70): BN004817.D (-471) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.03 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Tgt Ion: 136 Resp: 12187

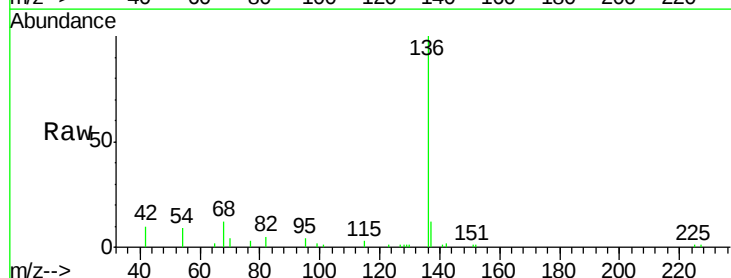
Ion Ratio Lower Upper

136 100

137 12.0 9.6 14.4

54 8.9 4.2 6.2#

68 11.5 3.9 5.9#

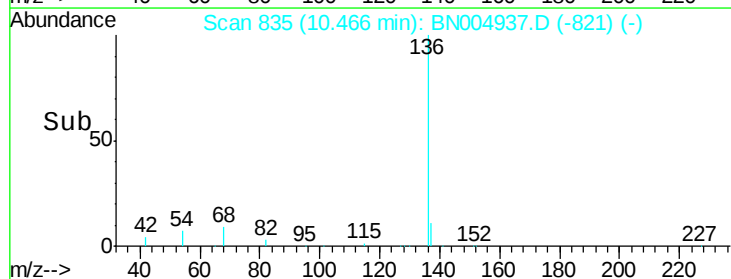
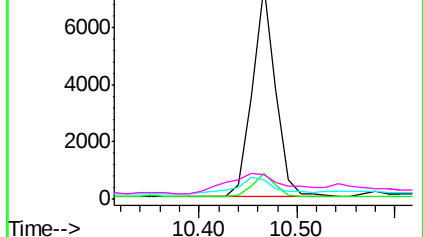


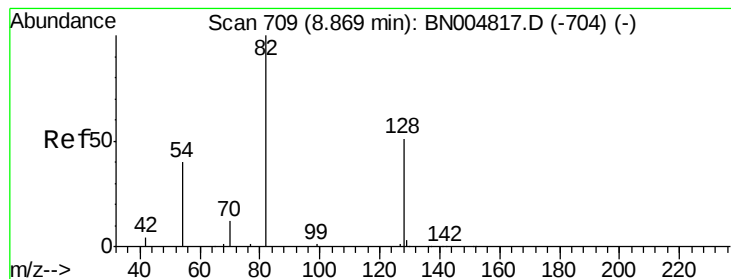
Abundance Ion 136.00 (135.70 to 136.70): BN004817.D (-830) (-)

Ion 137.00 (136.70 to 137.70): BN004817.D (-830) (-)

Ion 54.00 (53.70 to 54.70): BN004817.D (-830) (-)

Ion 68.00 (67.70 to 68.70): BN004817.D (-830) (-)





#8

Nitrobenzene-d5

Concen: 0.535 ng

RT: 8.84 min Scan# 707

Delta R.T. -0.03 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

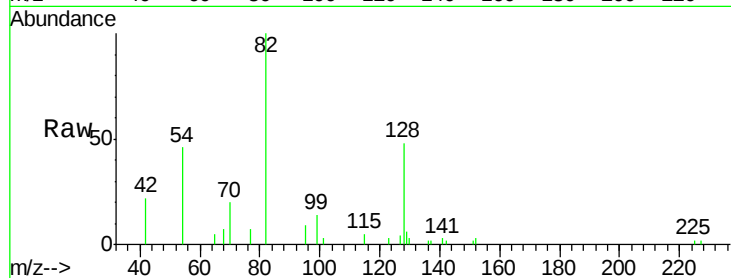
Tgt Ion: 82 Resp: 4313

Ion Ratio Lower Upper

82 100

128 47.5 43.0 64.6

54 46.2 35.3 52.9

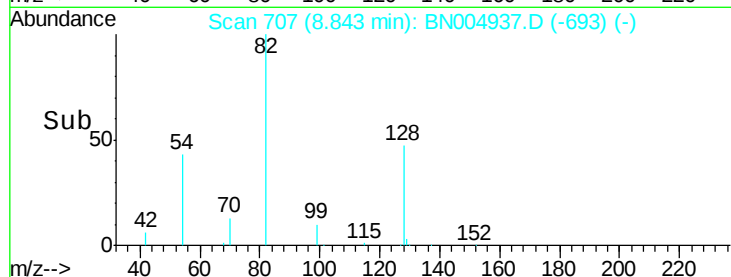


Abundance Ion 82.00 (81.70 to 82.70): BN004817.D (-704) (-)

Ion 128.00 (127.70 to 128.70): BN004817.D (-704) (-)

Ion 54.00 (53.70 to 54.70): BN004817.D (-704) (-)

Time-->



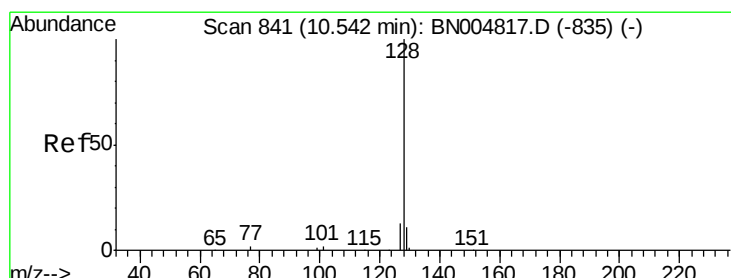
Abundance

Ion 82.00 (81.70 to 82.70): BN004937.D (-693) (-)

Ion 128.00 (127.70 to 128.70): BN004937.D (-693) (-)

Ion 54.00 (53.70 to 54.70): BN004937.D (-693) (-)

Time-->



#9

Naphthalene

Concen: 0.089 ng

RT: 10.52 min Scan# 839

Delta R.T. -0.03 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

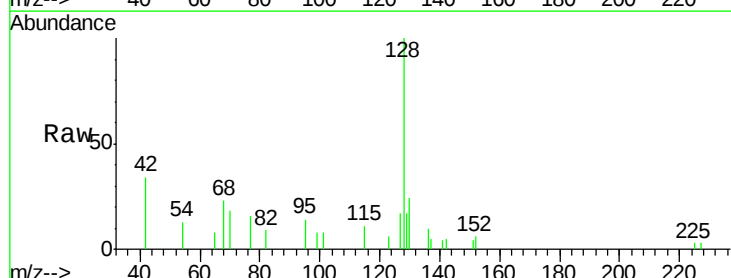
Tgt Ion: 128 Resp: 3038

Ion Ratio Lower Upper

128 100

129 17.5 9.9 14.9#

127 16.9 11.3 16.9

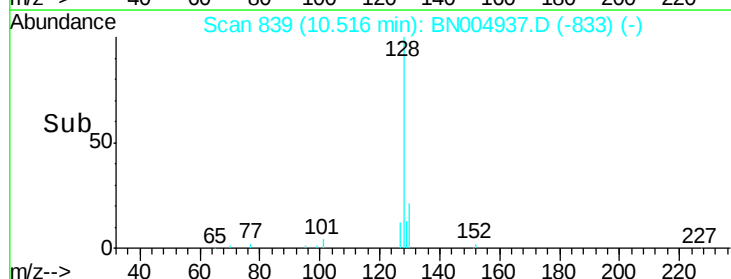


Abundance Ion 128.00 (127.70 to 128.70): BN004817.D (-835) (-)

Ion 129.00 (128.70 to 129.70): BN004817.D (-835) (-)

Ion 127.00 (126.70 to 127.70): BN004817.D (-835) (-)

Time-->



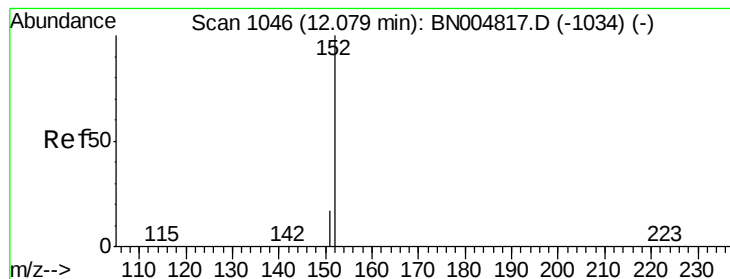
Abundance

Ion 128.00 (127.70 to 128.70): BN004937.D (-833) (-)

Ion 129.00 (128.70 to 129.70): BN004937.D (-833) (-)

Ion 127.00 (126.70 to 127.70): BN004937.D (-833) (-)

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.420 ng

RT: 12.06 min Scan# 1042

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

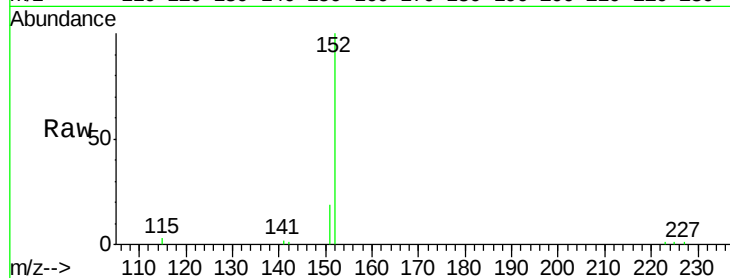
EXT-026-SW040-031919

Tgt Ion:152 Resp: 8924

Ion Ratio Lower Upper

152 100

151 19.6 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

6000

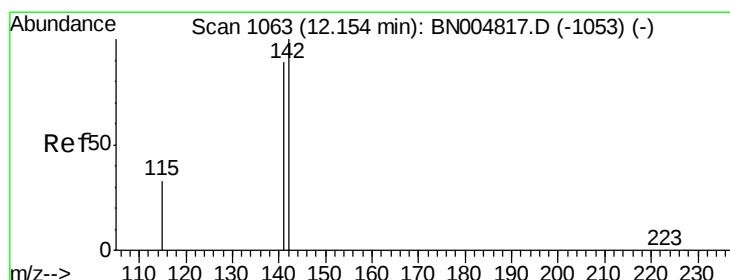
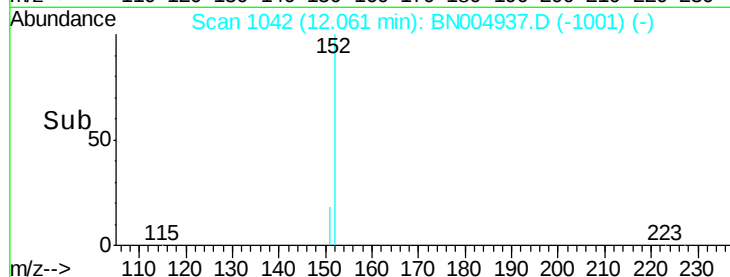
4000

2000

0

12.06

Time-->



#12

2-Methylnaphthalene

Concen: 0.106 ng

RT: 12.13 min Scan# 1058

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

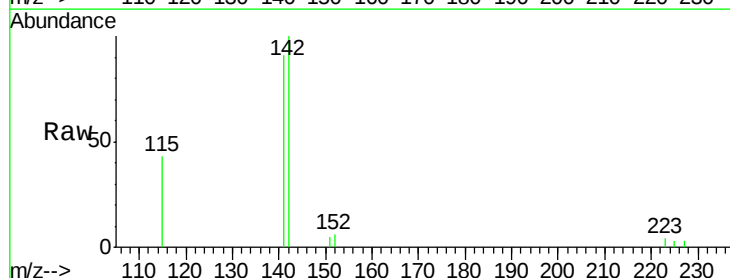
Tgt Ion:142 Resp: 2691

Ion Ratio Lower Upper

142 100

141 91.4 71.4 107.2

115 42.8 27.5 41.3#



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

2000

1500

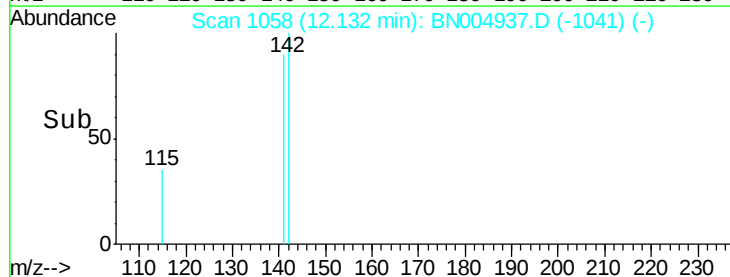
1000

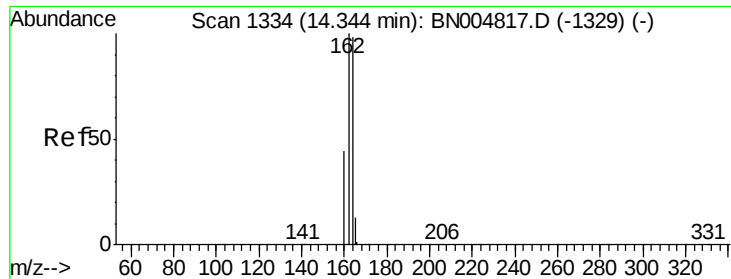
500

0

12.13

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.32 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

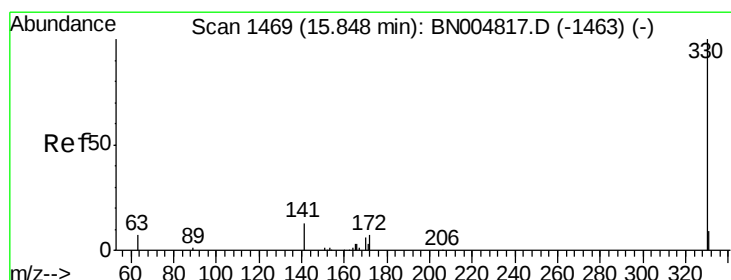
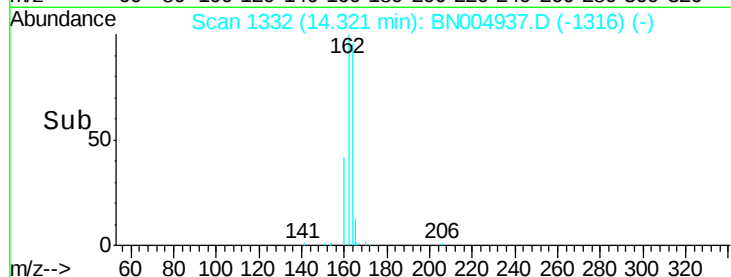
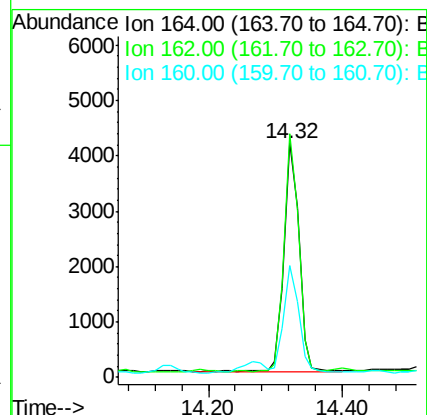
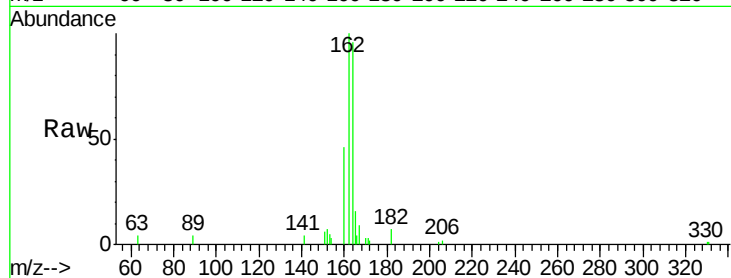
Tgt Ion:164 Resp: 6370

Ion Ratio Lower Upper

164 100

162 104.0 81.9 122.9

160 47.7 36.6 54.8



#14

2,4,6-Tribromophenol

Concen: 0.593 ng

RT: 15.83 min Scan# 1467

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

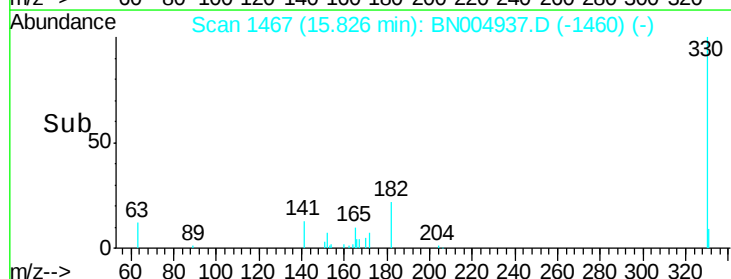
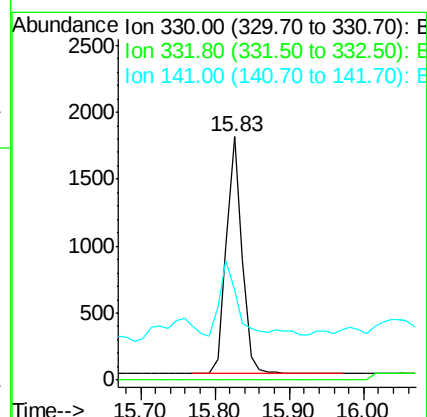
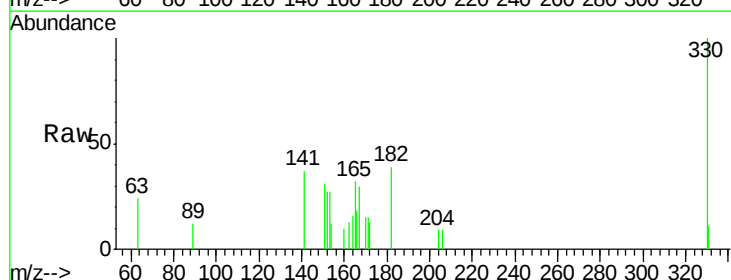
Tgt Ion:330 Resp: 2607

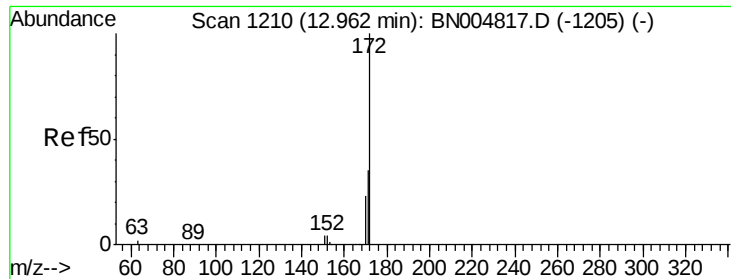
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 34.3 20.9 31.3#

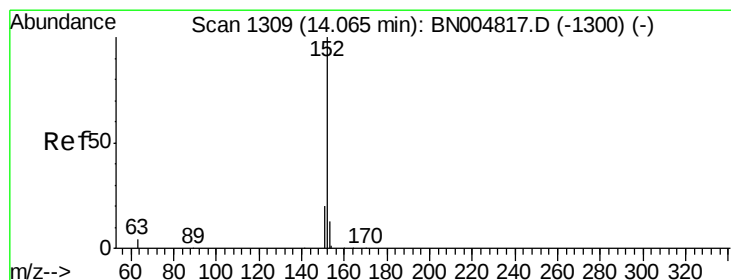
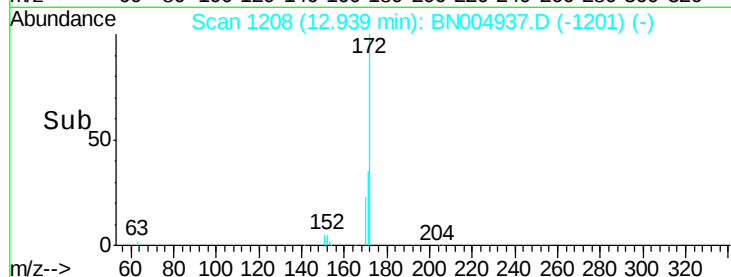
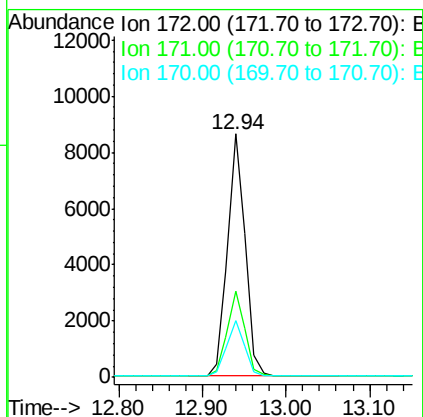
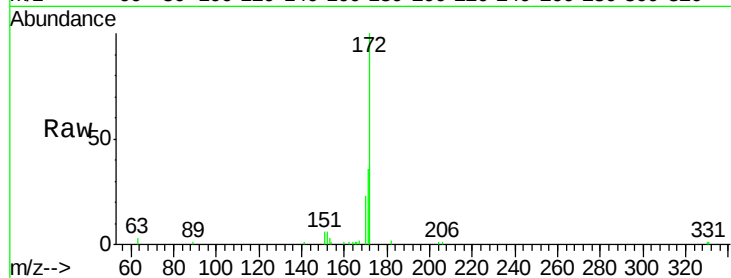




#15
2-Fluorobiphenyl
Concen: 0.477 ng
RT: 12.94 min Scan# 1208
Delta R.T. -0.02 min
Lab File: BN004937.D
Acq: 24 Mar 2019 14:04

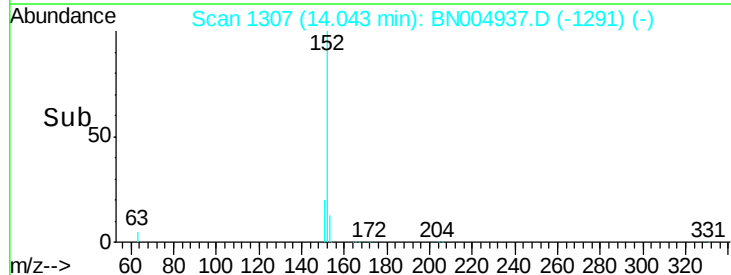
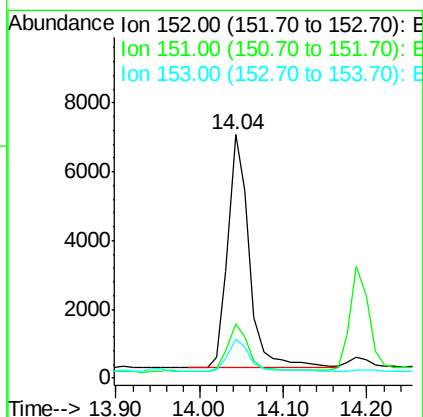
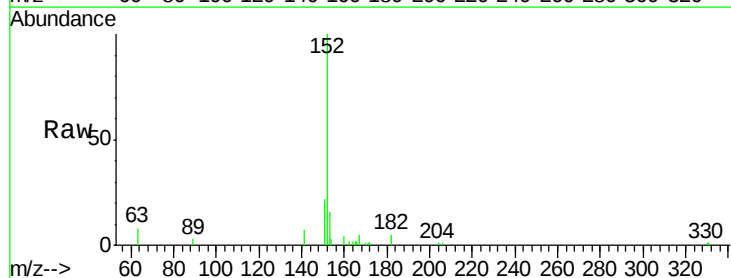
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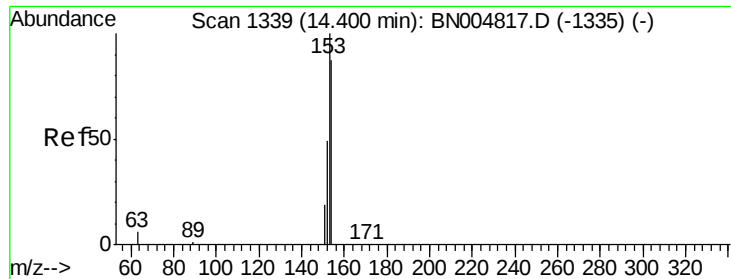
Tgt Ion:172 Resp: 12552
Ion Ratio Lower Upper
172 100
171 35.5 28.7 43.1
170 23.2 18.7 28.1



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.04 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BN004937.D
Acq: 24 Mar 2019 14:04

Tgt Ion:152 Resp: 12019
Ion Ratio Lower Upper
152 100
151 20.9 16.1 24.1
153 14.2 10.5 15.7





#17

Acenaphthene

Concen: 0.034 ng

RT: 14.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

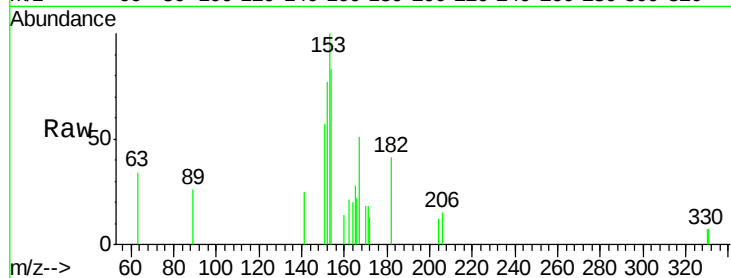
Tgt Ion:154 Resp: 735

Ion Ratio Lower Upper

154 100

153 109.7 91.4 137.2

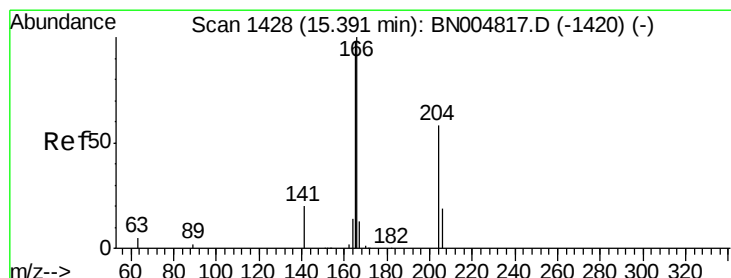
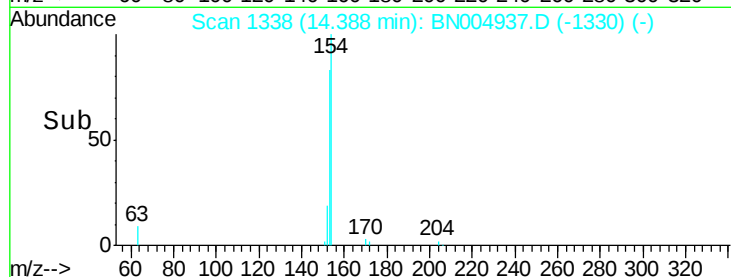
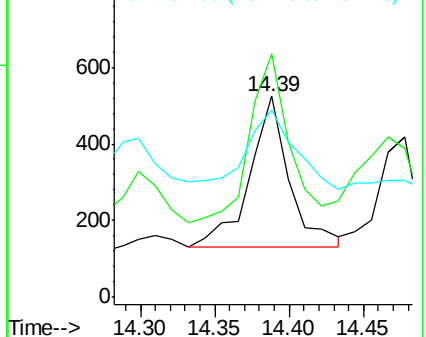
152 63.3 44.2 66.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.080 ng

RT: 15.38 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

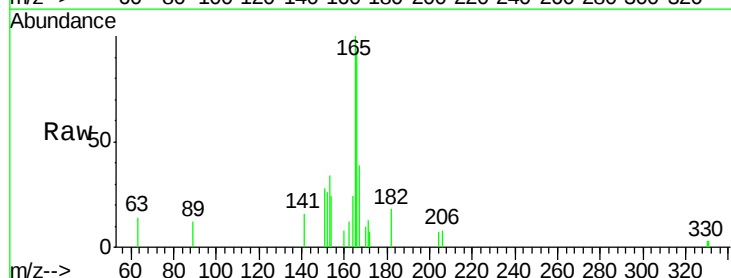
Tgt Ion:166 Resp: 2399

Ion Ratio Lower Upper

166 100

165 119.3 78.2 117.4#

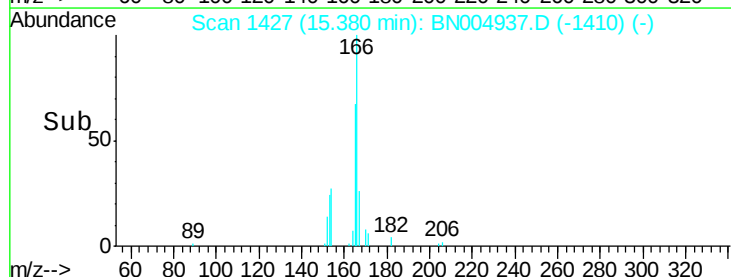
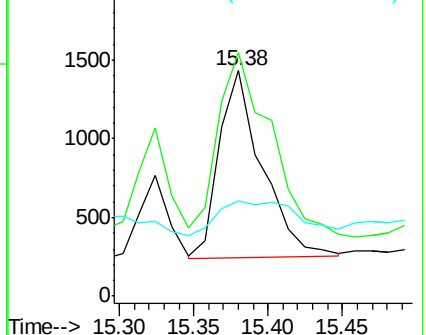
167 33.8 11.0 16.4#

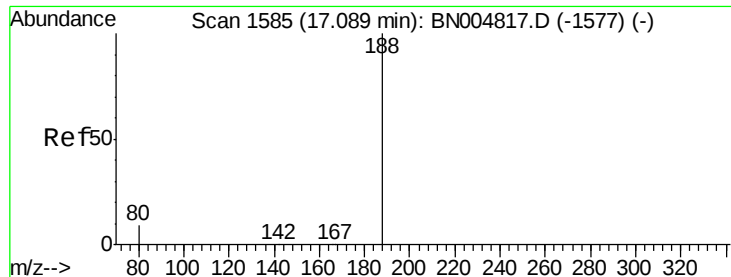


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

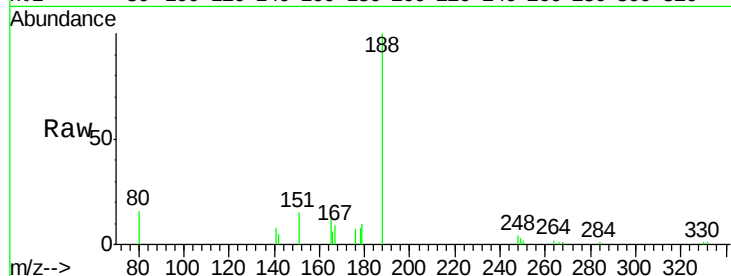
Tgt Ion:188 Resp: 12397

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

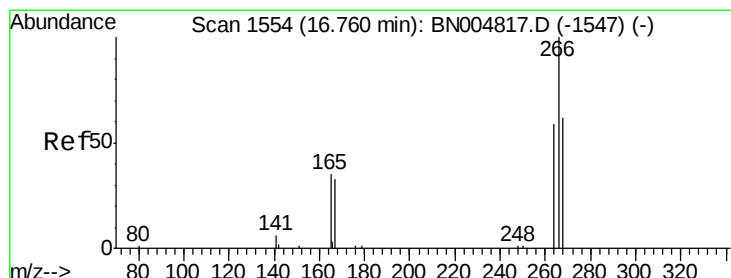
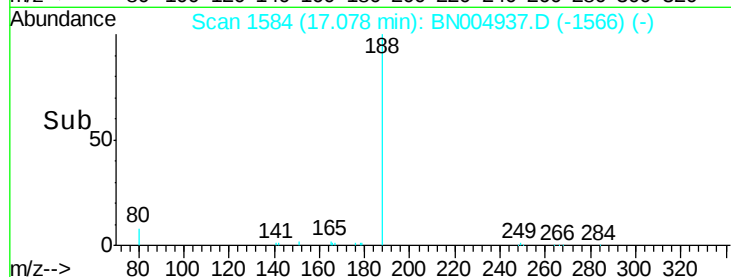
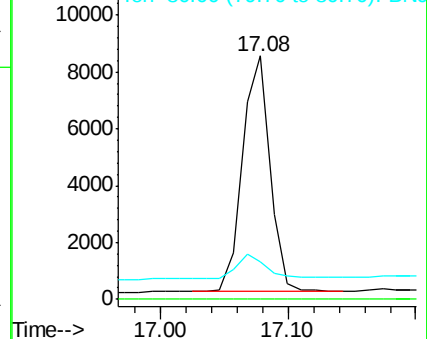
80 15.7 7.4 11.2#



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



#22

Pentachlorophenol

Concen: 0.099 ng

RT: 16.74 min Scan# 1552

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

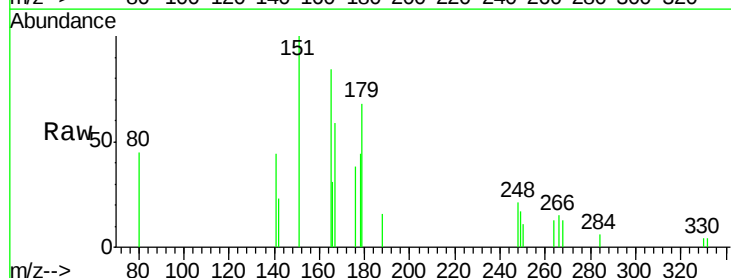
Tgt Ion:266 Resp: 180

Ion Ratio Lower Upper

266 100

264 87.2 53.1 79.7#

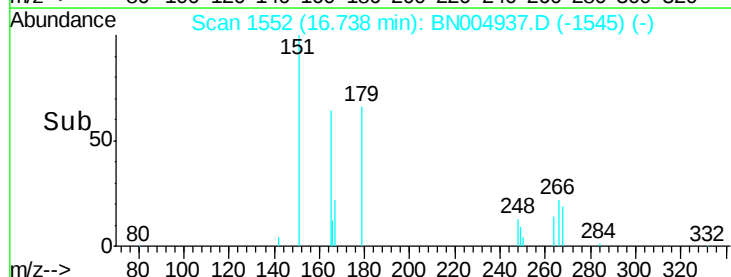
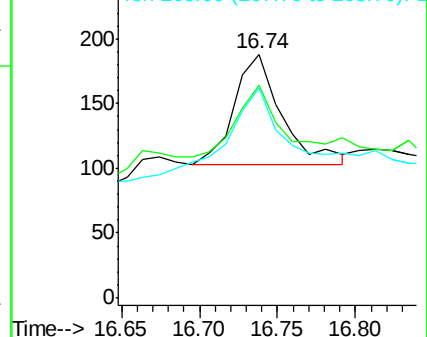
268 86.2 57.7 86.5

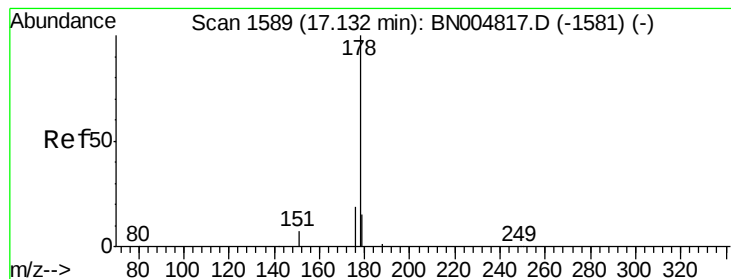


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.885 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

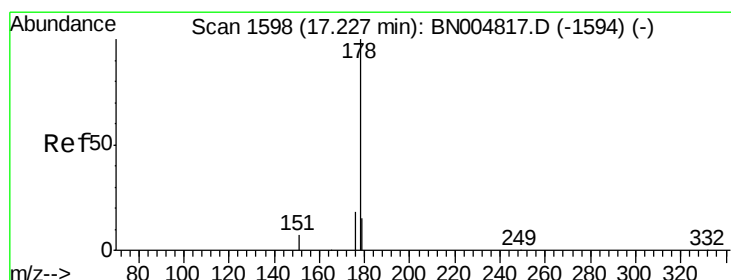
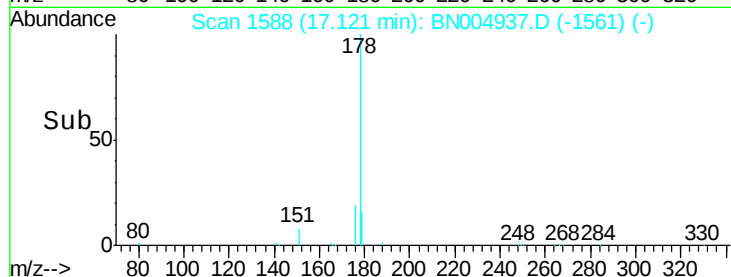
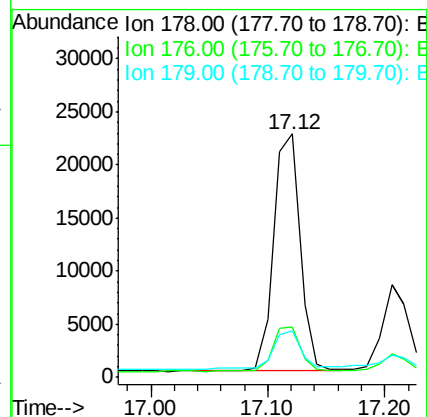
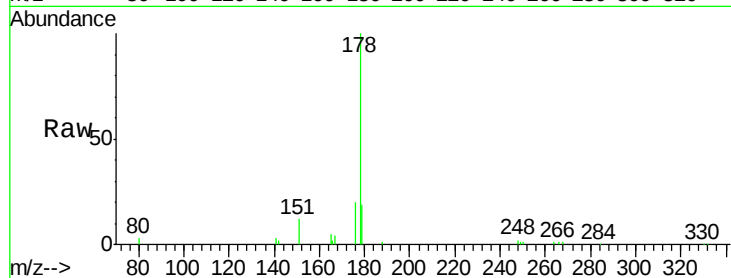
Tgt Ion:178 Resp: 35444

Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

179 18.0 12.1 18.1



#24

Anthracene

Concen: 0.375 ng

RT: 17.21 min Scan# 1596

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

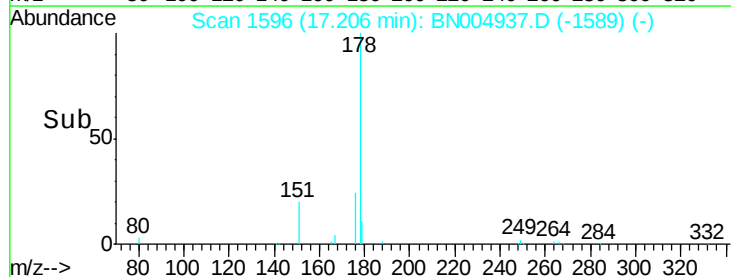
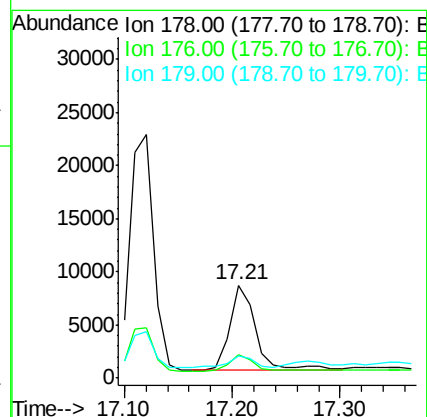
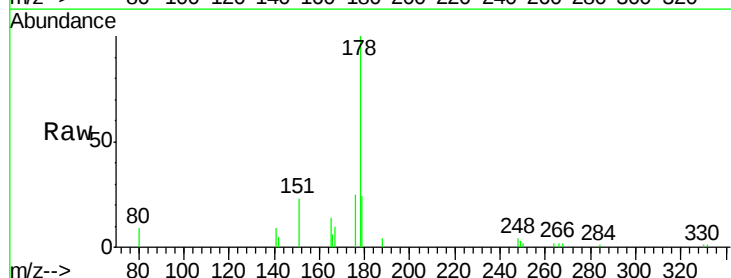
Tgt Ion:178 Resp: 13398

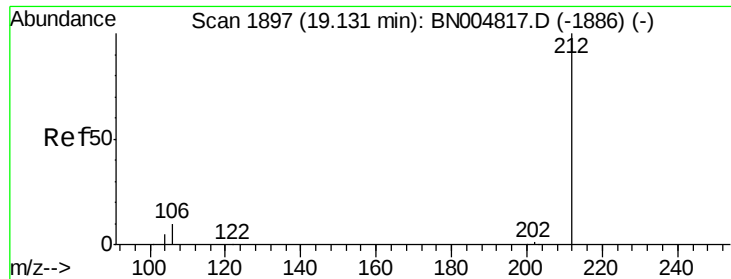
Ion Ratio Lower Upper

178 100

176 17.6 14.5 21.7

179 13.4 12.2 18.4





#25

Fluoranthene-d10

Concen: 0.385 ng

RT: 19.11 min Scan# 1893

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

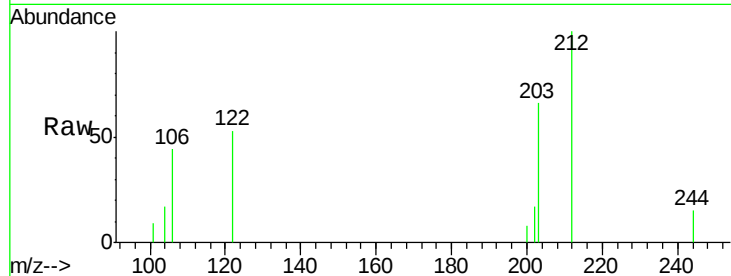
Tgt Ion:212 Resp: 15975

Ion Ratio Lower Upper

212 100

106 15.5 8.6 13.0#

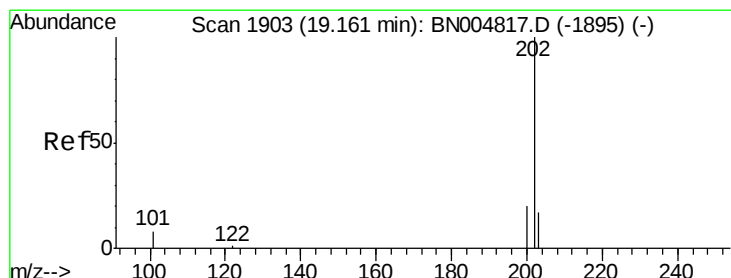
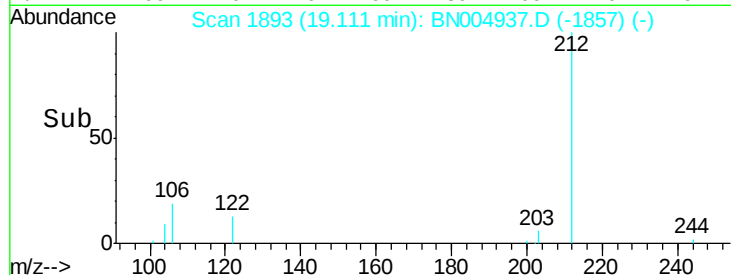
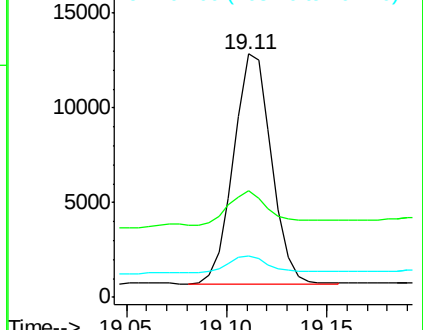
104 7.9 4.7 7.1#



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: 0.954 ng

RT: 19.14 min Scan# 1899

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

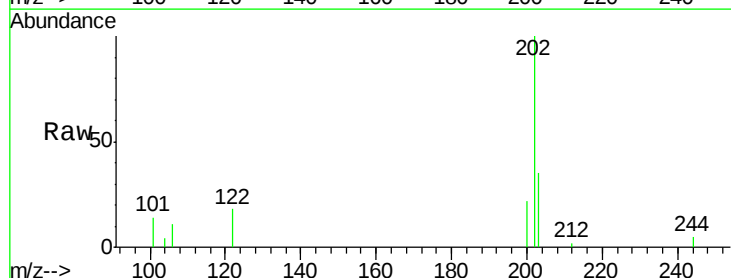
Tgt Ion:202 Resp: 49101

Ion Ratio Lower Upper

202 100

101 13.5 7.5 11.3#

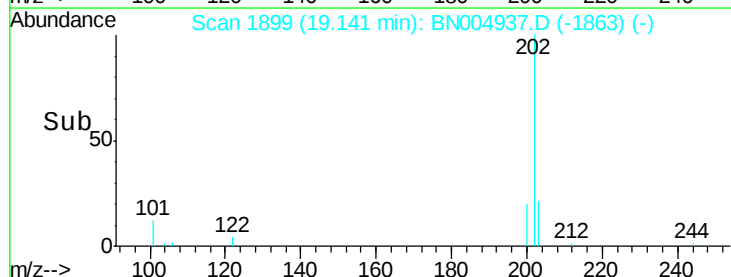
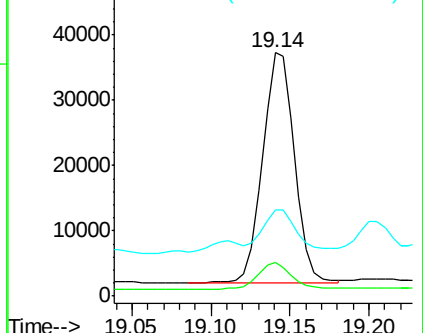
203 16.5 13.8 20.6

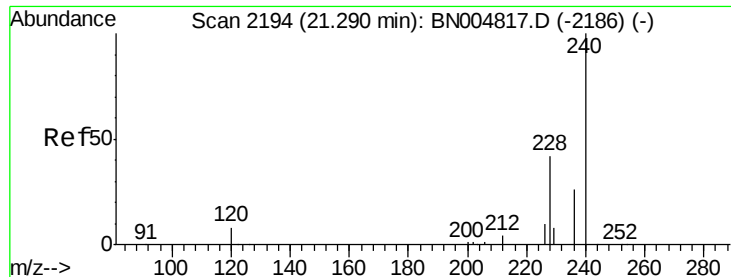


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.28 min Scan# 2193

Delta R.T. -0.01 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

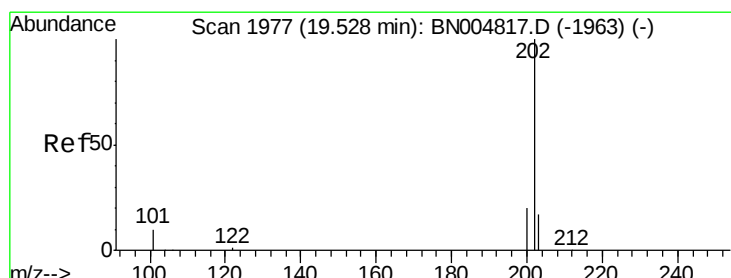
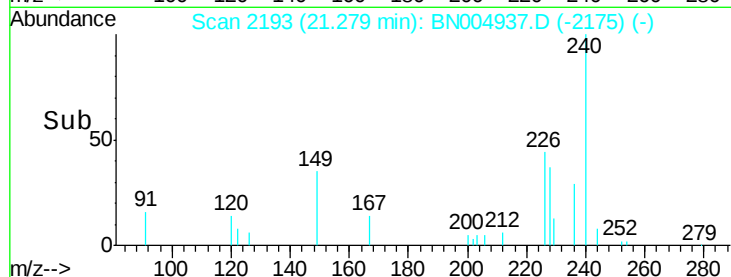
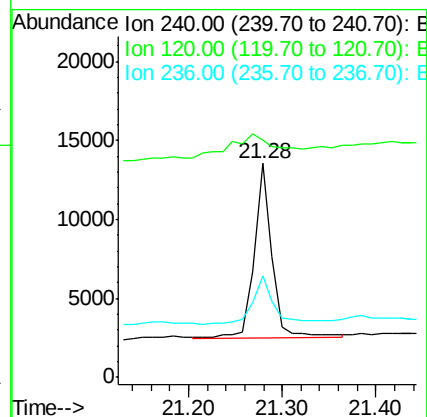
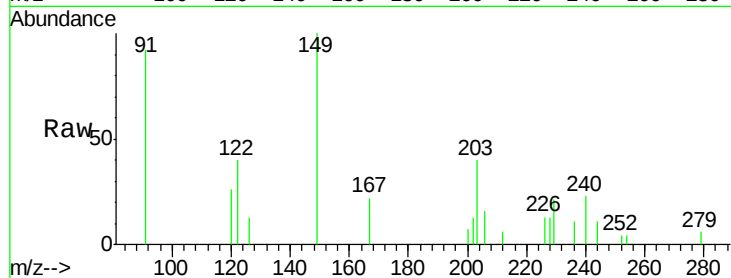
Tgt Ion:240 Resp: 14925

Ion Ratio Lower Upper

240 100

120 110.9 7.2 10.8#

236 47.5 20.9 31.3#



#28

Pyrene

Concen: 1.136 ng

RT: 19.51 min Scan# 1973

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

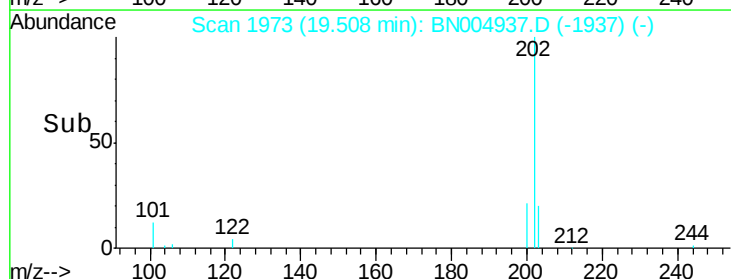
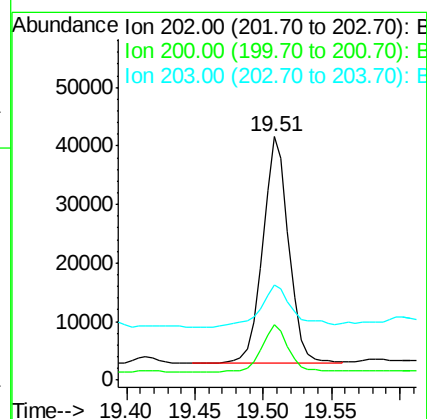
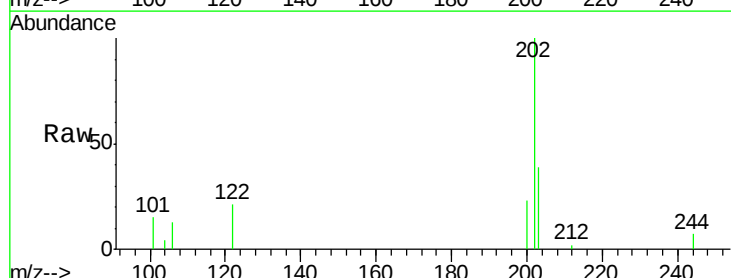
Tgt Ion:202 Resp: 51703

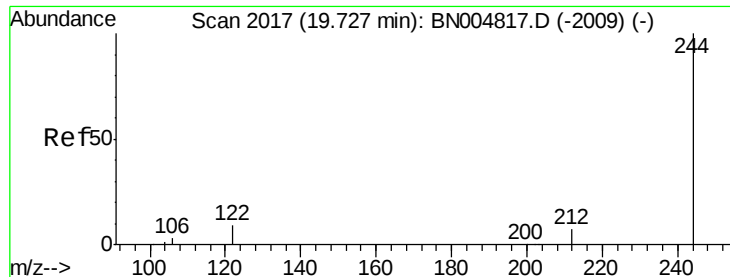
Ion Ratio Lower Upper

202 100

200 21.5 16.3 24.5

203 23.7 14.0 21.0#





#29

Terphenyl-d14

Concen: 0.532 ng

RT: 19.71 min Scan# 2014

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

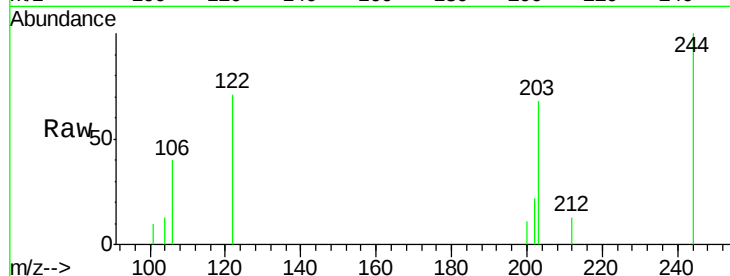
Tgt Ion:244 Resp: 16260

Ion Ratio Lower Upper

244 100

212 12.8 5.8 8.6#

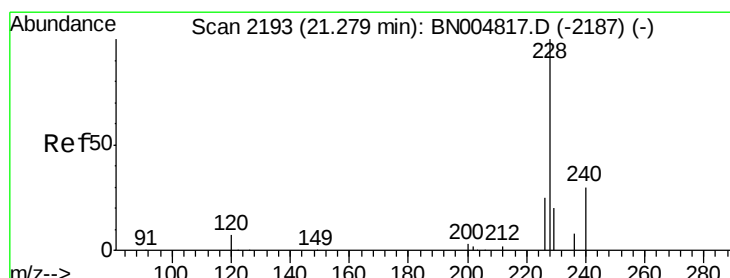
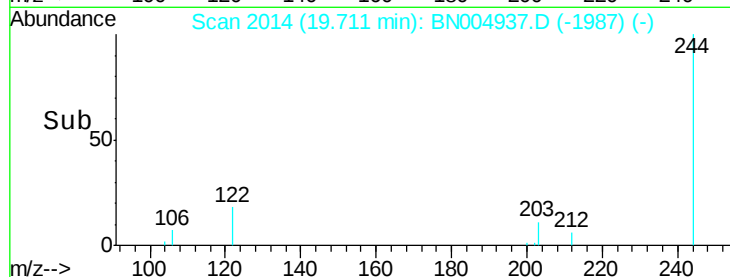
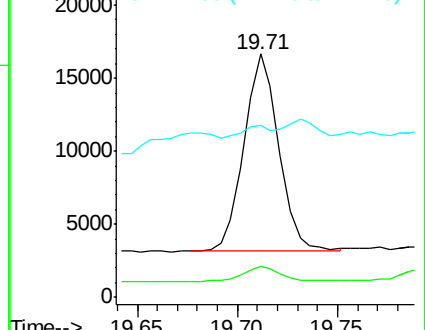
122 70.7 7.9 11.9#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.564 ng

RT: 21.26 min Scan# 2191

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

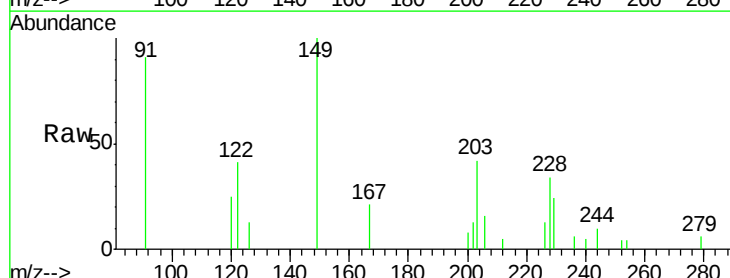
Tgt Ion:228 Resp: 27611

Ion Ratio Lower Upper

228 100

226 37.8 20.6 31.0#

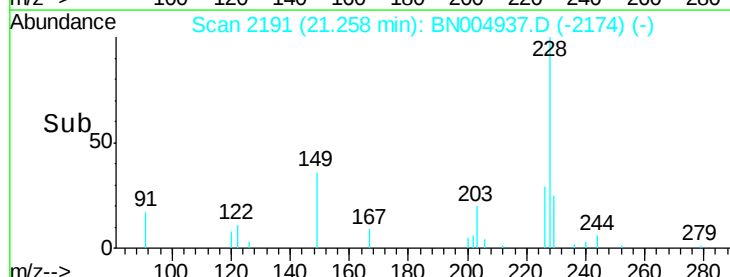
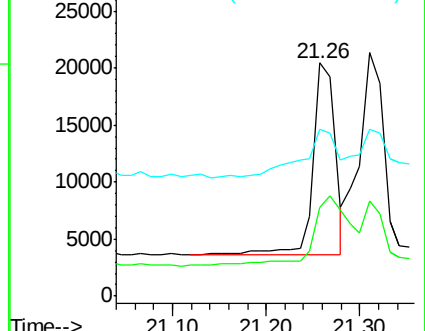
229 71.6 16.2 24.4#

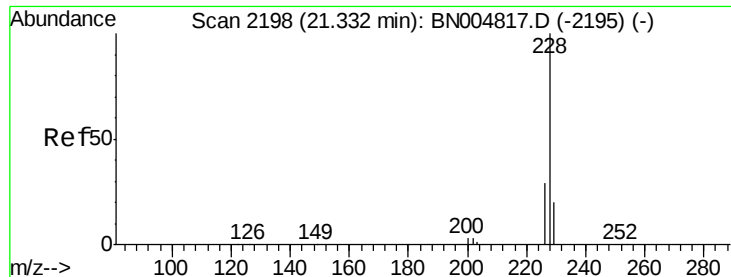


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.524 ng

RT: 21.31 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919

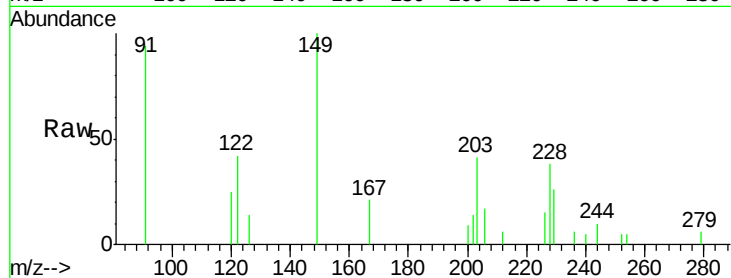
Tgt Ion:228 Resp: 27018

Ion Ratio Lower Upper

228 100

226 39.1 23.0 34.6#

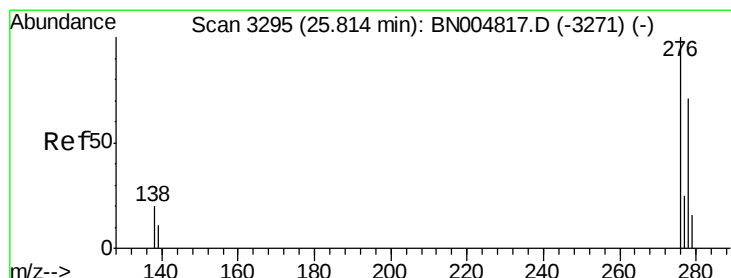
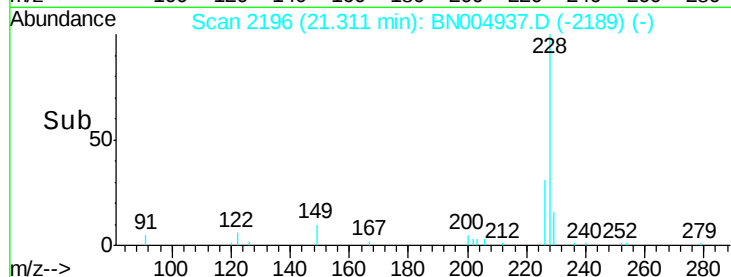
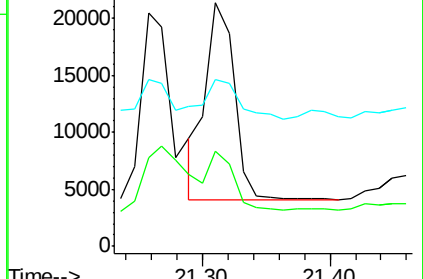
229 68.4 16.2 24.2#



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.610 ng

RT: 25.80 min Scan# 3291

Delta R.T. -0.01 min

Lab File: BN004937.D

Acq: 24 Mar 2019 14:04

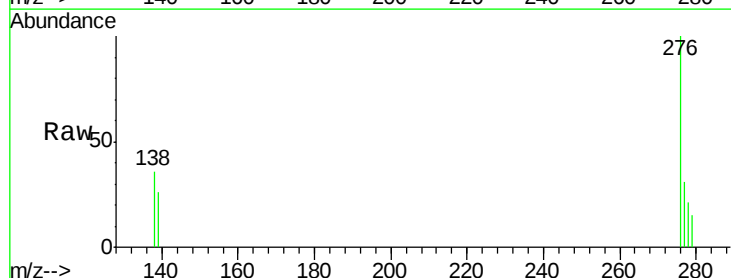
Tgt Ion:276 Resp: 45470

Ion Ratio Lower Upper

276 100

138 22.3 16.6 24.8

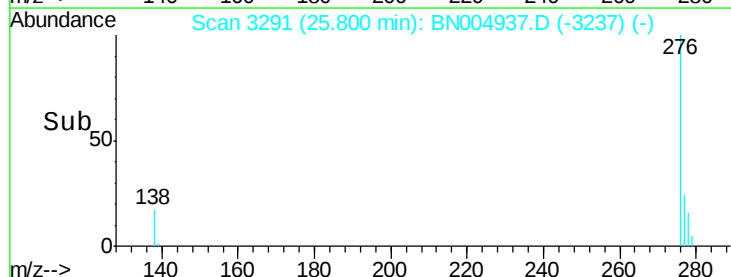
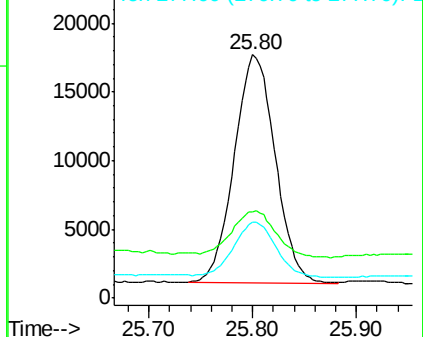
277 25.1 20.3 30.5

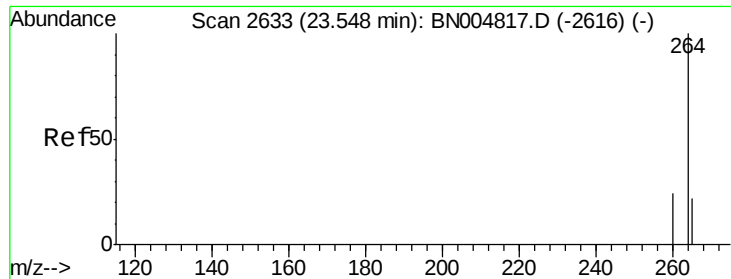


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

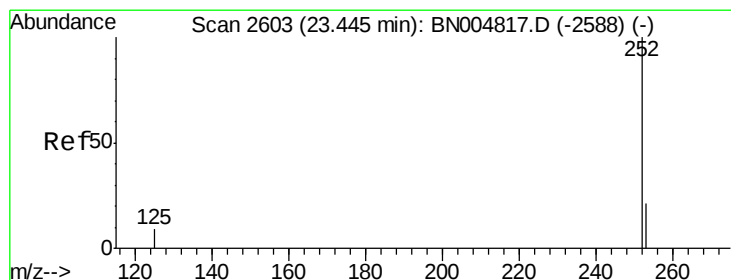
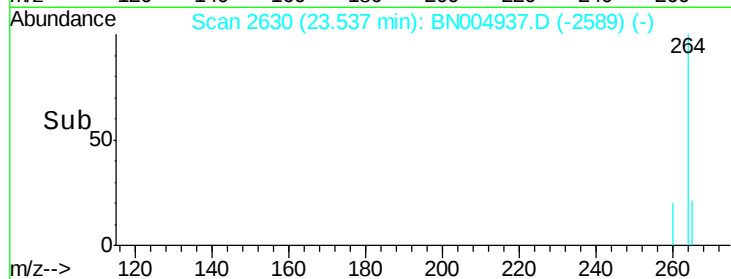
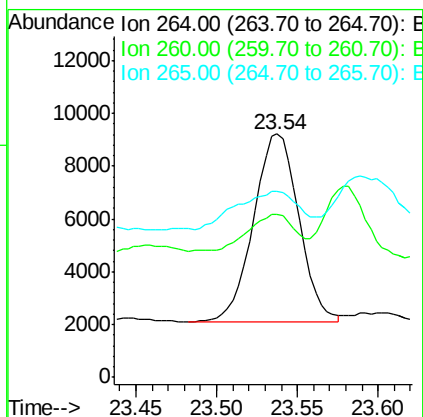
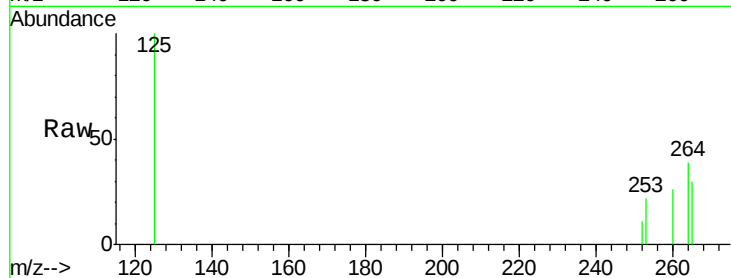




#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.54 min Scan# 2630
 Delta R.T. -0.01 min
 Lab File: BN004937.D
 Acq: 24 Mar 2019 14:04

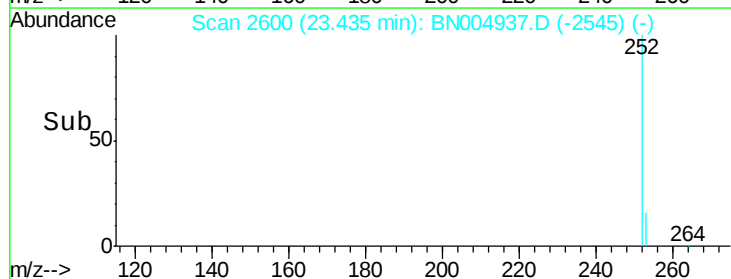
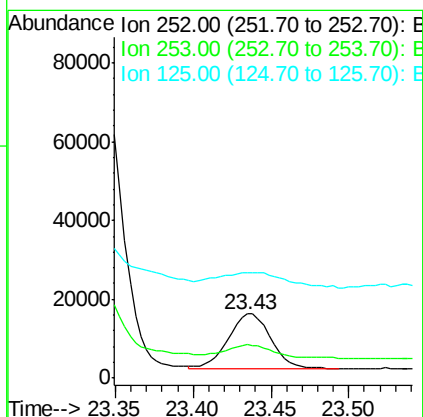
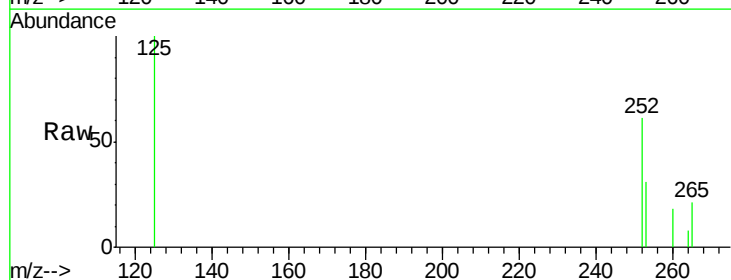
Instrument :
 BNA_N
 ClientSampleId :
 EXT-026-SW040-031919

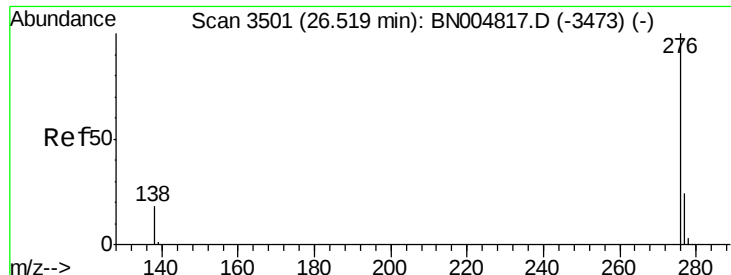
Tgt Ion: 264 Resp: 13954
 Ion Ratio Lower Upper
 264 100
 260 66.9 19.5 29.3#
 265 76.3 23.1 34.7#



#37
Benzo(a)pyrene
 Concen: 0.563 ng
 RT: 23.43 min Scan# 2600
 Delta R.T. -0.01 min
 Lab File: BN004937.D
 Acq: 24 Mar 2019 14:04

Tgt Ion: 252 Resp: 26088
 Ion Ratio Lower Upper
 252 100
 253 51.6 19.7 29.5#
 125 164.4 8.3 12.5#





#39

Benzo(g,h,i)perylene

Concen: 2.837 ng

RT: 26.50 min Scan# 3495

Delta R.T. -0.02 min

Lab File: BN004937.D

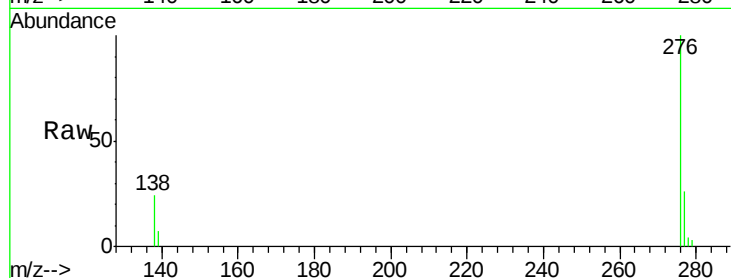
Acq: 24 Mar 2019 14:04

Instrument :

BNA_N

ClientSampleId :

EXT-026-SW040-031919



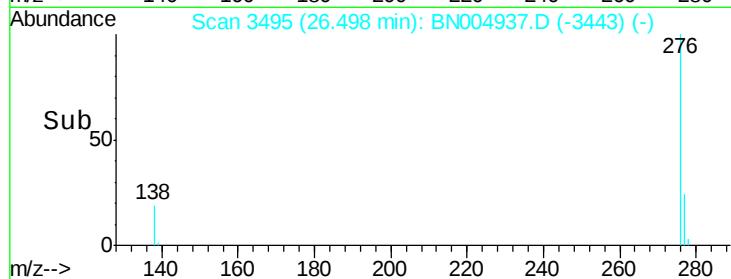
Tgt Ion: 276 Resp: 155009

Ion Ratio Lower Upper

276 100

277 25.7 19.7 29.5

138 24.0 14.6 22.0#



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

