

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032119\
 Data File : BN004886.D
 Acq On : 22 Mar 2019 13:02
 Operator : JU/SJ
 Sample : K1817-13
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-027-B107-030619

Quant Time: Mar 22 22:18:53 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	7.70	152	2153	0.40	ng	0.00
7) Naphthalene-d8	10.48	136	10137	0.40	ng	-0.01
13) Acenaphthene-d10	14.33	164	6217	0.40	ng	-0.01
19) Phenanthrene-d10	17.09	188	15701	0.40	ng	0.00
27) Chrysene-d12	21.29	240	20863	0.40	ng	0.00
34) Perylene-d12	23.54	264	21678	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.29	112	2536	0.43	ng	0.00
5) Phenol-d6	6.87	99	3353	0.46	ng	0.00
8) Nitrobenzene-d5	8.86	82	2464	0.37	ng	-0.01
11) 2-Methylnaphthalene-d10	12.07	152	6157	0.35	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	1359	0.32	ng	-0.01
15) 2-Fluorobiphenyl	12.95	172	9182	0.36	ng	-0.01
25) Fluoranthene-d10	19.12	212	16568	0.32	ng	0.00
29) Terphenyl-d14	19.72	244	12830	0.30	ng	0.00

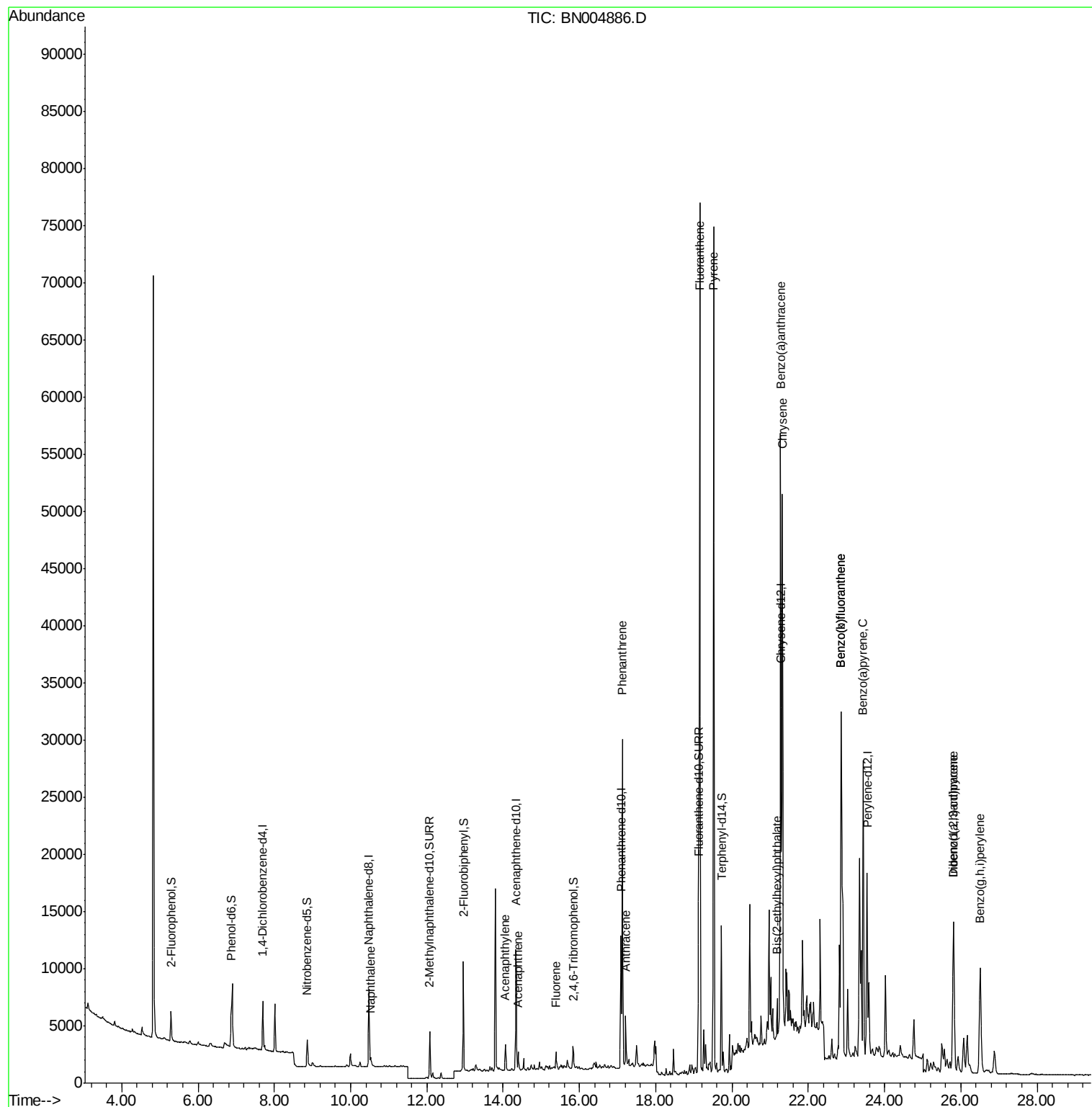
Target Compounds				Qvalue		
9) Naphthalene	10.53	128	768	0.027	ng	# 78
16) Acenaphthylene	14.05	152	2904	0.091	ng	99
17) Acenaphthene	14.40	154	769	0.037	ng	96
18) Fluorene	15.39	166	1017	0.035	ng	# 92
23) Phenanthrene	17.13	178	29983	0.591	ng	99
24) Anthracene	17.22	178	5107	0.113	ng	# 94
26) Fluoranthene	19.16	202	69305	1.064	ng	99
28) Pyrene	19.52	202	67111	1.055	ng	# 96
30) Benzo(a)anthracene	21.27	228	41322	0.604	ng	98
31) Chrysene	21.32	228	40820	0.566	ng	97
32) Bis(2-ethylhexyl)phthalate	21.18	149	2625	0.096	ng	98
33) Indeno(1,2,3-cd)pyrene	25.81	276	20803	0.200	ng	98
35) Benzo(b)fluoranthene	22.86	252	49432	0.630	ng	# 96
36) Benzo(k)fluoranthene	22.86	252	49432	0.641	ng	# 96
37) Benzo(a)pyrene	23.44	252	35563	0.494	ng	98
38) Dibenzo(a,h)anthracene	25.81	278	5988	0.072	ng	# 73
39) Benzo(a,h,i)perylene	26.51	276	19550	0.230	ng	97

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

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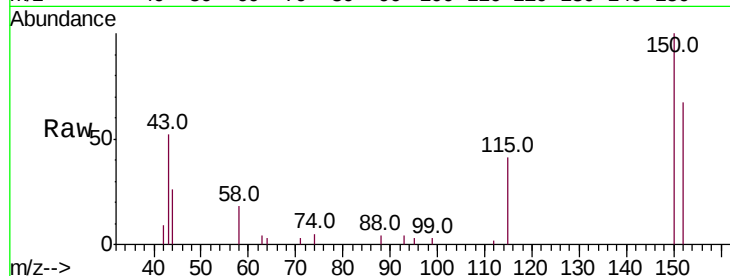


#1

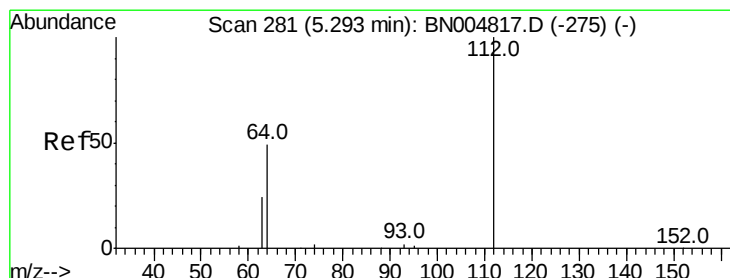
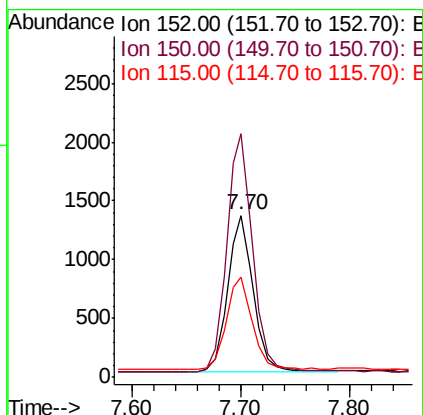
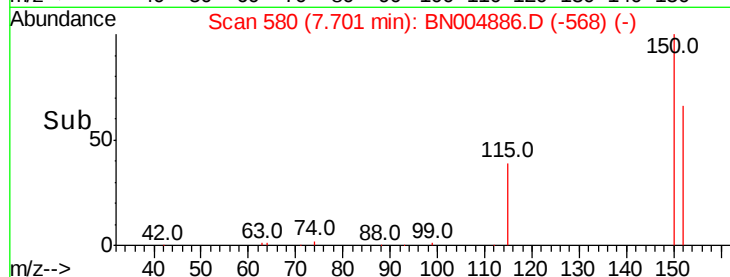
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.70 min Scan# 580
Delta R.T. 0.00 min
Lab File: BN004886.D
Acq: 22 Mar 2019 13:02

Instrument :
BNA_N
ClientSampleId :
PST-027-B107-030619

Tot Ion:152 Resp: 2153
Ion Ratio Lower Upper
152 100
150 150.1 126.2 189.4
115 61.5 52.6 79.0



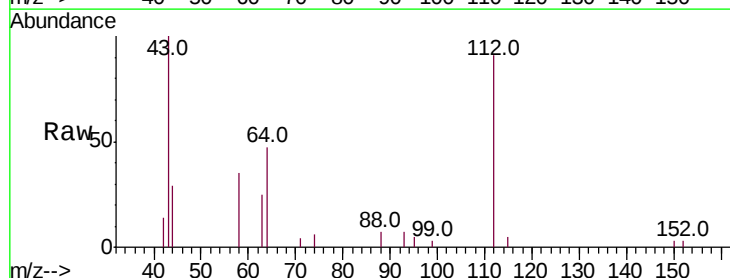
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



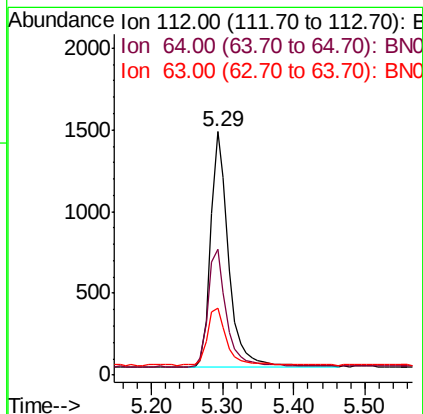
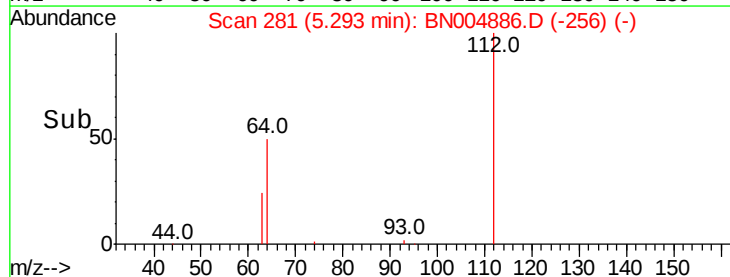
#4

2-Fluorophenol
Concen: 0.433 ng
RT: 5.29 min Scan# 281
Delta R.T. 0.00 min
Lab File: BN004886.D
Acq: 22 Mar 2019 13:02

Tgt Ion:112 Resp: 2536
Ion Ratio Lower Upper
112 100
64 50.8 40.0 60.0
63 25.7 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: 0.460 ng

RT: 6.87 min Scan# 477

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

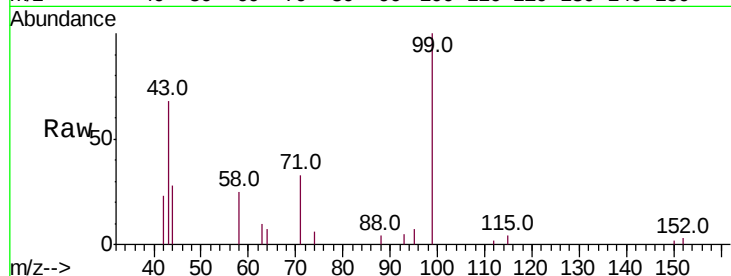
Tot Ion: 99 Resp: 3353

Ion Ratio Lower Upper

99 100

42 24.3 12.7 19.1#

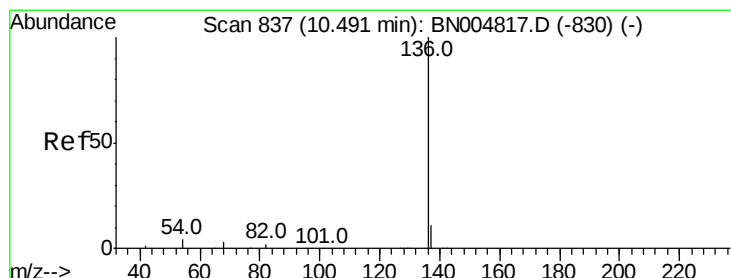
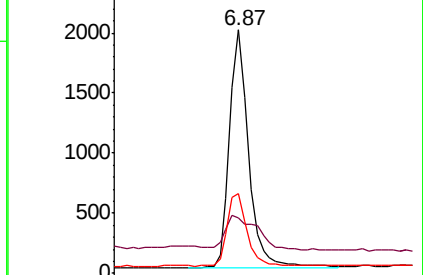
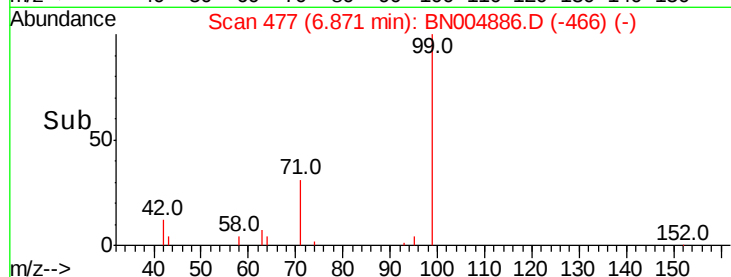
71 32.1 26.6 40.0



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: 10.48 min Scan# 836

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Tgt Ion: 136 Resp: 10137

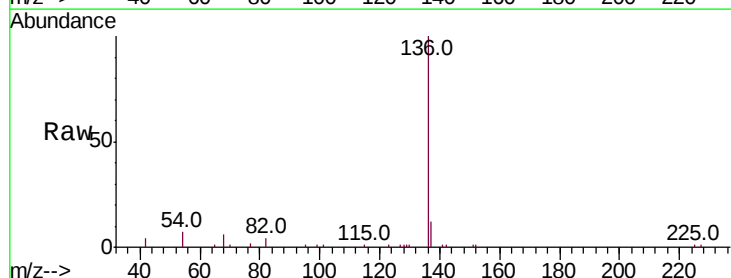
Ion Ratio Lower Upper

136 100

137 11.6 9.6 14.4

54 7.1 4.2 6.2#

68 6.2 3.9 5.9#

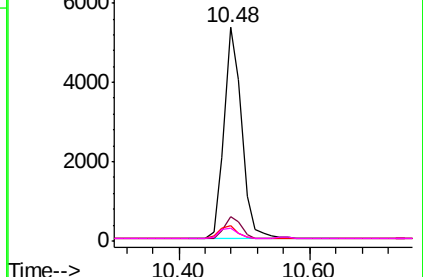
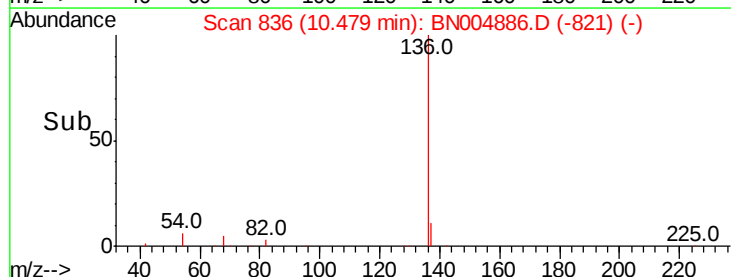


Abundance Ion 136.00 (135.70 to 136.70): BN004817.D (-830) (-)

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: 0.367 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

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PST-027-B107-030619

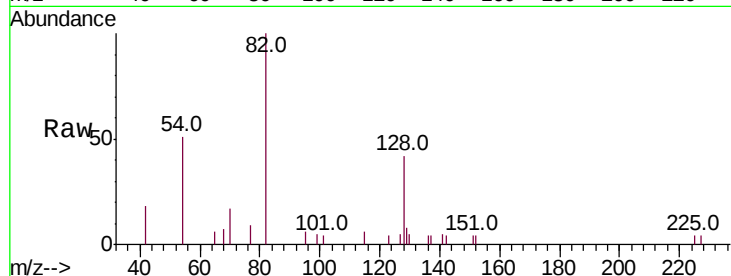
Tot Ion: 82 Resp: 2464

Ion Ratio Lower Upper

82 100

128 41.8 43.0 64.6#

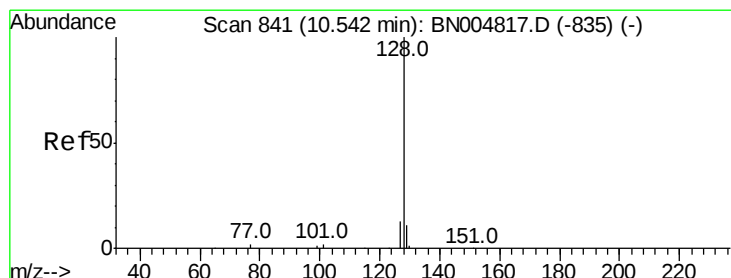
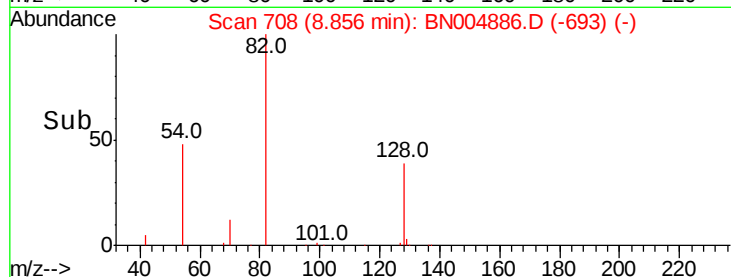
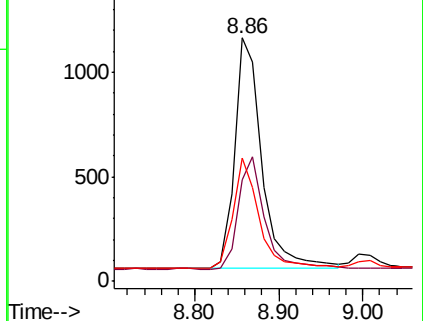
54 50.5 35.3 52.9



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) (-)



#9

Naphthalene

Concen: 0.027 ng

RT: 10.53 min Scan# 840

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

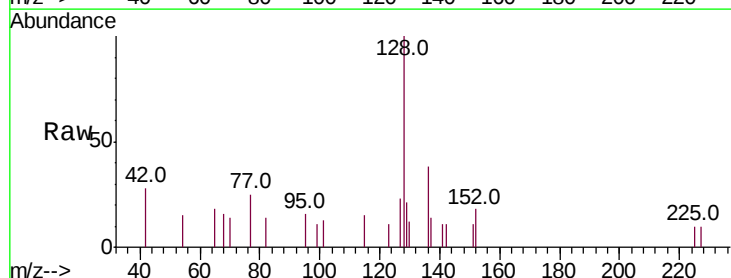
Tgt Ion: 128 Resp: 768

Ion Ratio Lower Upper

128 100

129 21.1 9.9 14.9#

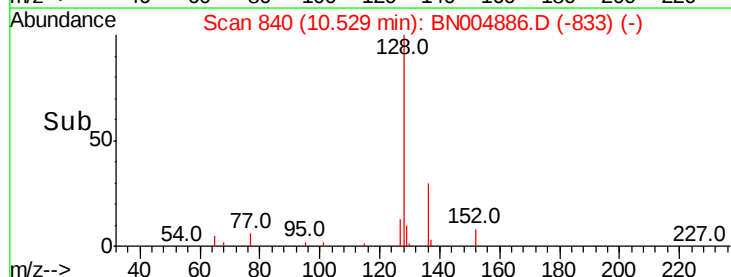
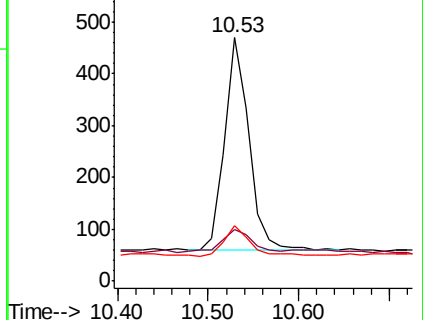
127 22.8 11.3 16.9#

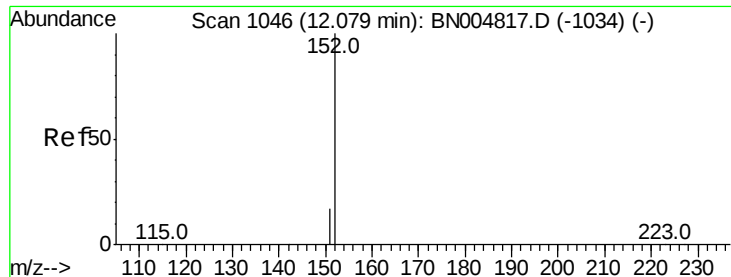


Abundance Ion 128.00 (127.70 to 128.70): BN004817.D (-835) (-)

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

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

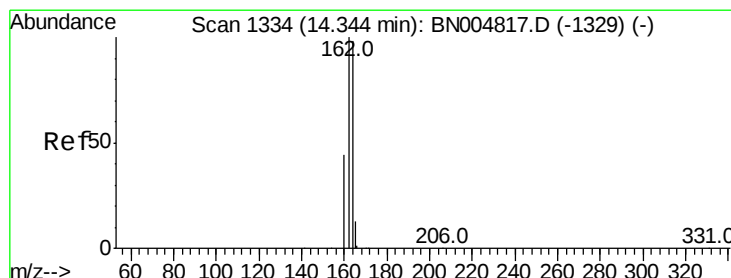
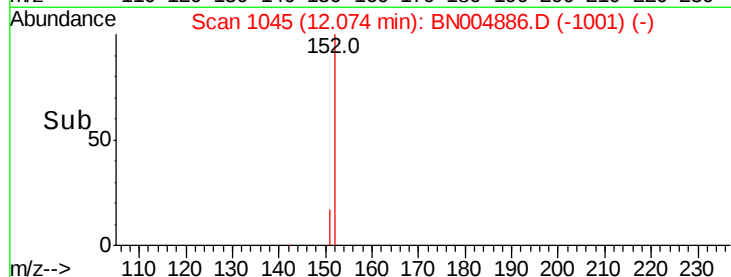
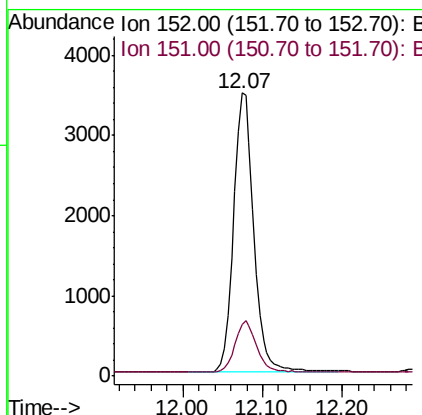
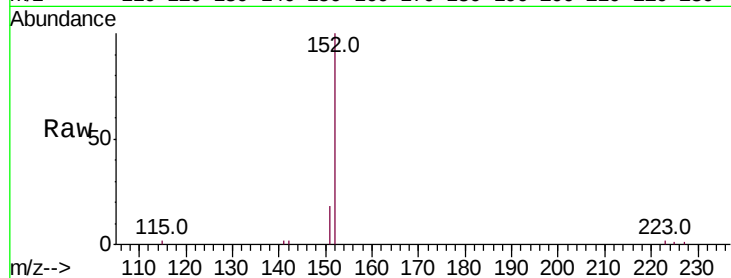




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.07 min Scan# 1045
Delta R.T. -0.00 min
Lab File: BN004886.D
Acq: 22 Mar 2019 13:02

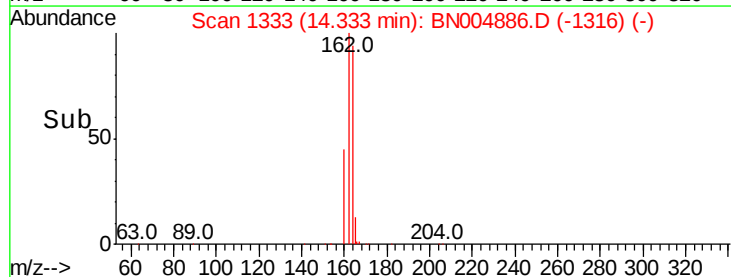
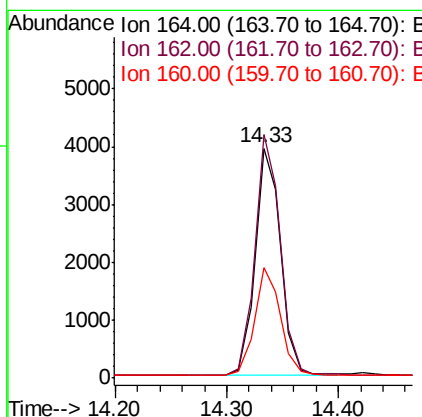
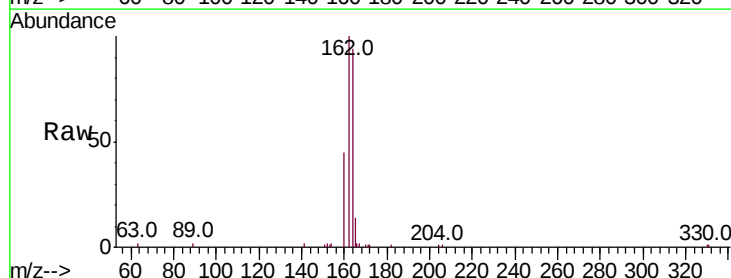
Instrument :
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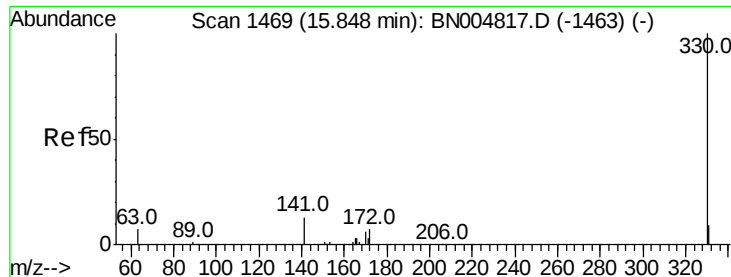
Tot Ion:152 Resp: 6157
Ion Ratio Lower Upper
152 100
151 19.6 15.5 23.3



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.33 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BN004886.D
Acq: 22 Mar 2019 13:02

Tgt Ion:164 Resp: 6217
Ion Ratio Lower Upper
164 100
162 105.9 81.9 122.9
160 47.8 36.6 54.8

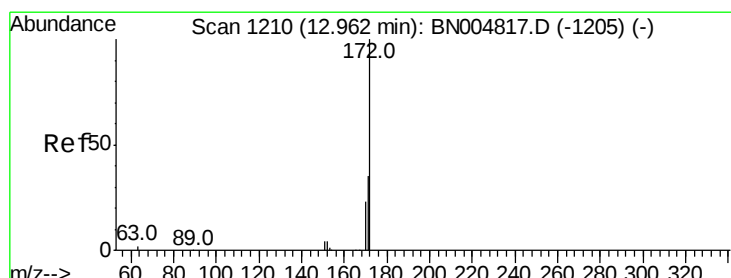
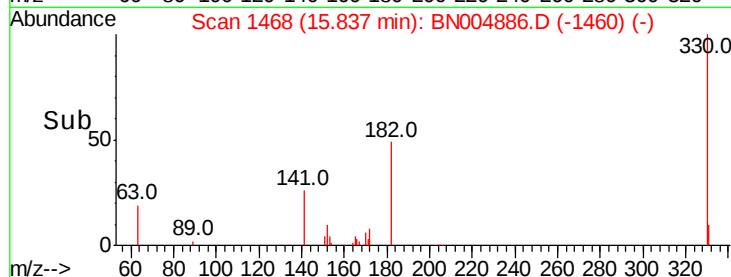
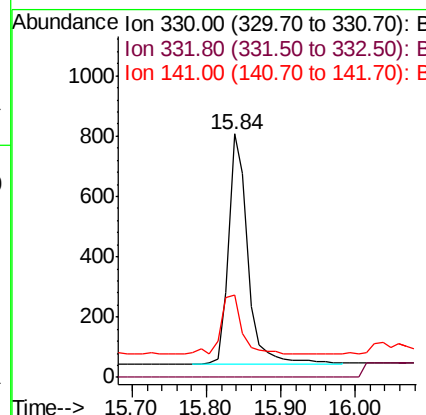
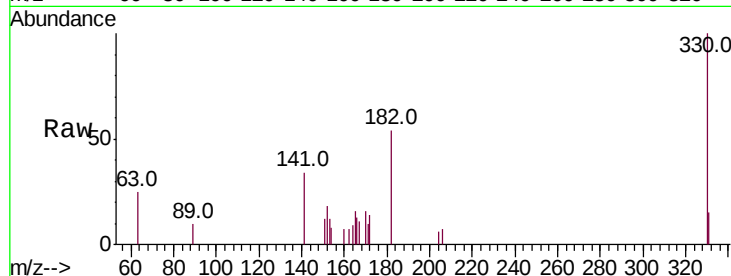




#14
 2,4,6-Tribromophenol
 Concen: 0.316 ng
 RT: 15.84 min Scan# 1468
 Delta R.T. -0.01 min
 Lab File: BN004886.D
 Acq: 22 Mar 2019 13:02

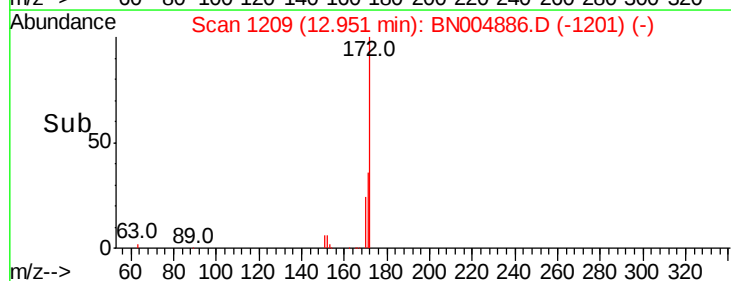
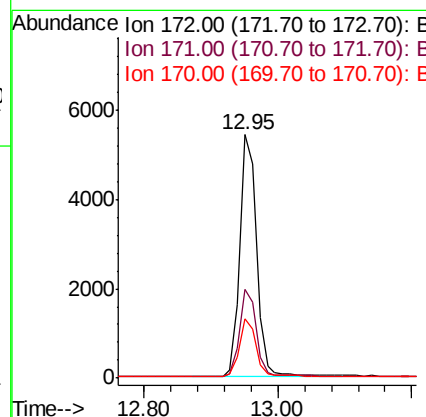
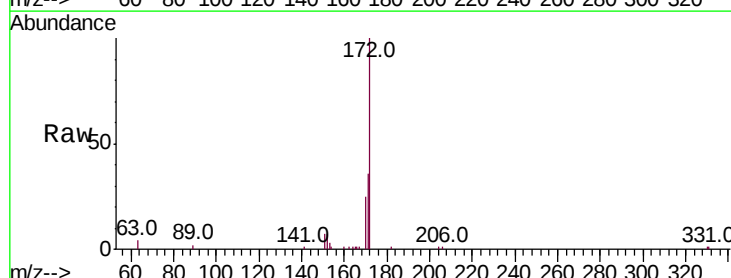
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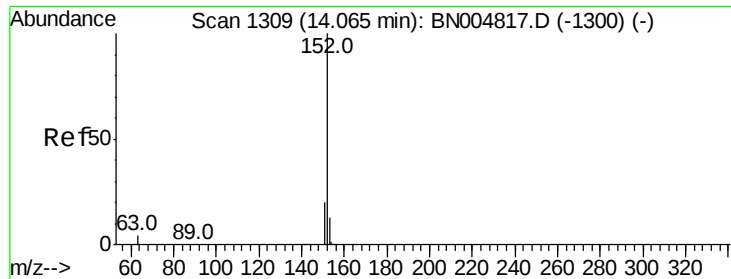
Tot Ion:330 Resp: 1359
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 29.6 20.9 31.3



#15
 2-Fluorobiphenyl
 Concen: 0.357 ng
 RT: 12.95 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BN004886.D
 Acq: 22 Mar 2019 13:02

Tgt Ion:172 Resp: 9182
 Ion Ratio Lower Upper
 172 100
 171 36.5 28.7 43.1
 170 24.6 18.7 28.1





#16

Acenaphthylene

Concen: 0.091 ng

RT: 14.05 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

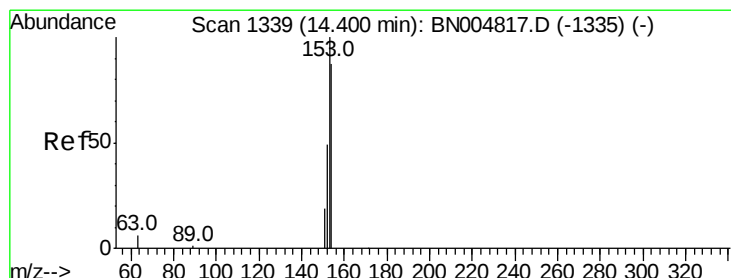
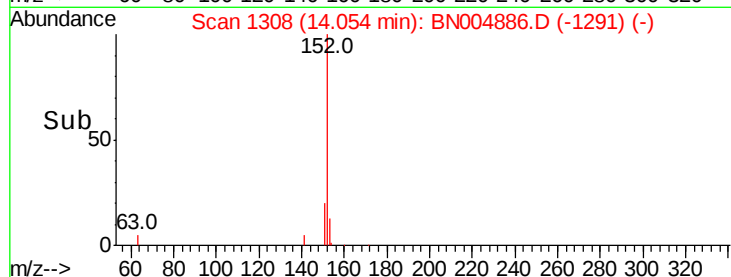
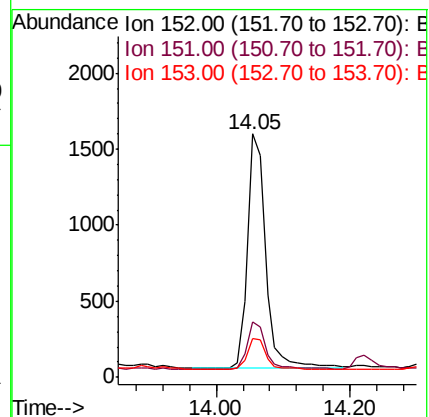
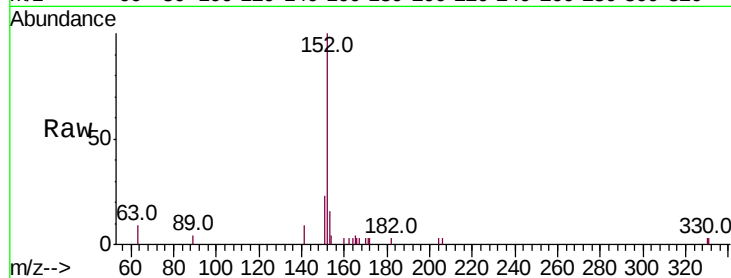
Tot Ion:152 Resp: 2904

Ion Ratio Lower Upper

152 100

151 20.3 16.1 24.1

153 13.6 10.5 15.7



#17

Acenaphthene

Concen: 0.037 ng

RT: 14.40 min Scan# 1339

Delta R.T. 0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

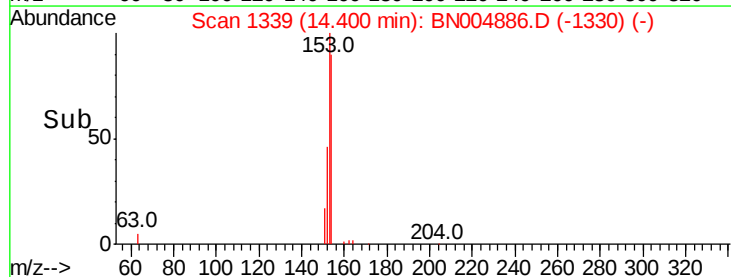
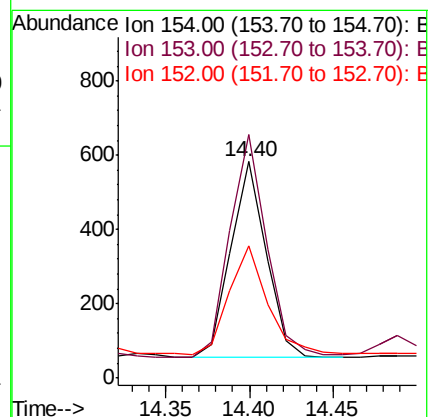
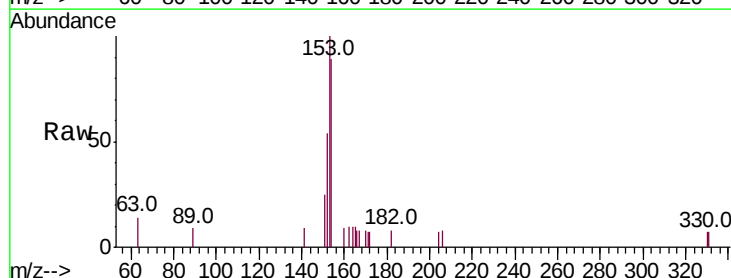
Tgt Ion:154 Resp: 769

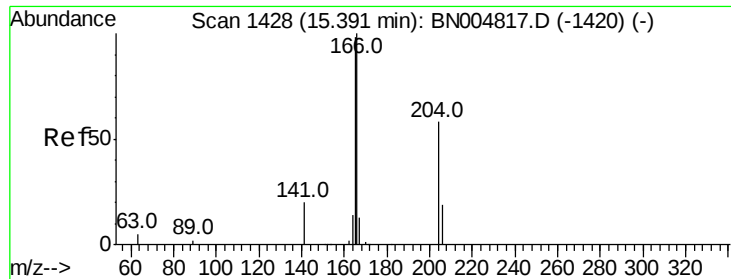
Ion Ratio Lower Upper

154 100

153 118.9 91.4 137.2

152 58.8 44.2 66.2





#18

Fluorene

Concen: 0.035 ng

RT: 15.39 min Scan# 1428

Delta R.T. 0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

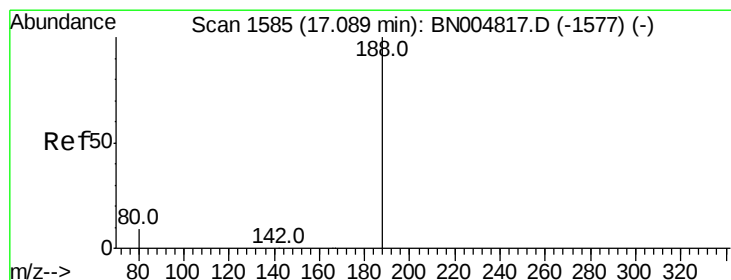
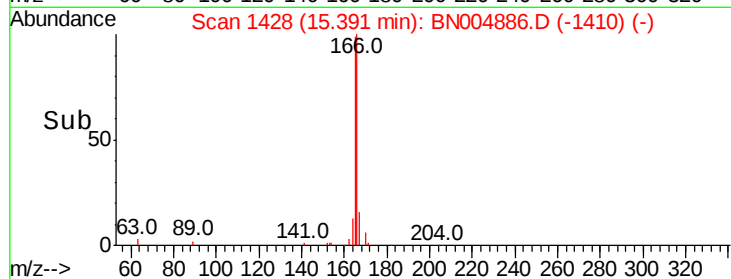
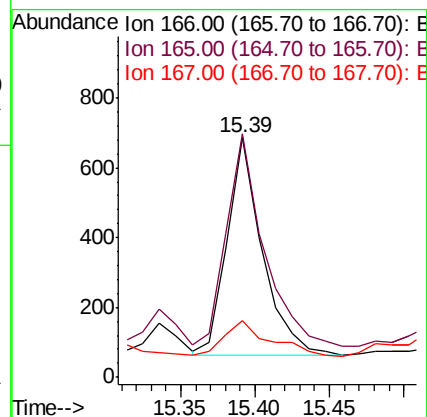
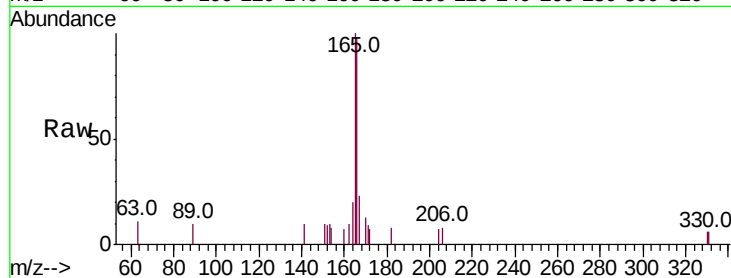
Tot Ion:166 Resp: 1017

Ion Ratio Lower Upper

166 100

165 103.7 78.2 117.4

167 21.8 11.0 16.4#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.09 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

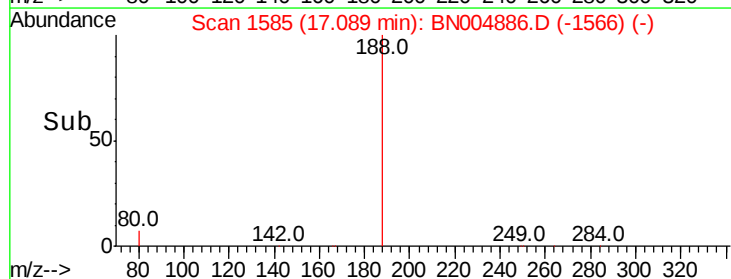
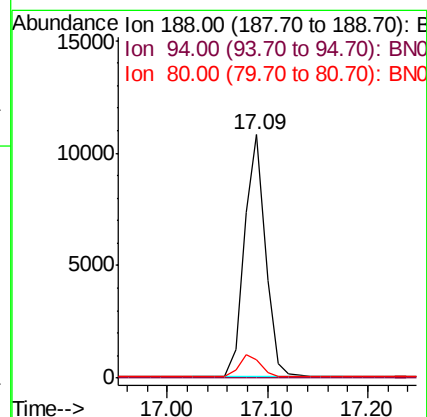
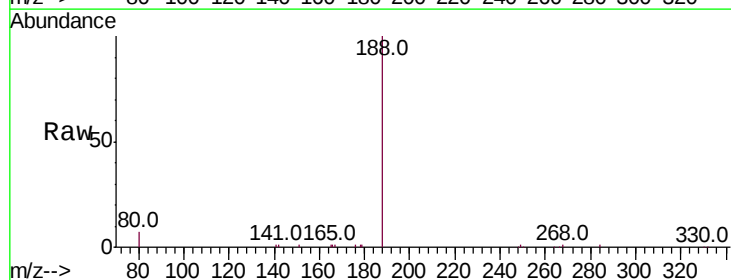
Tgt Ion:188 Resp: 15701

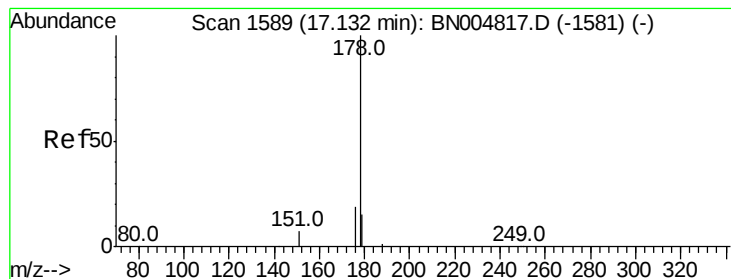
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 7.4 11.2





#23

Phenanthrene

Concen: 0.591 ng

RT: 17.13 min Scan# 1589

Delta R.T. 0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

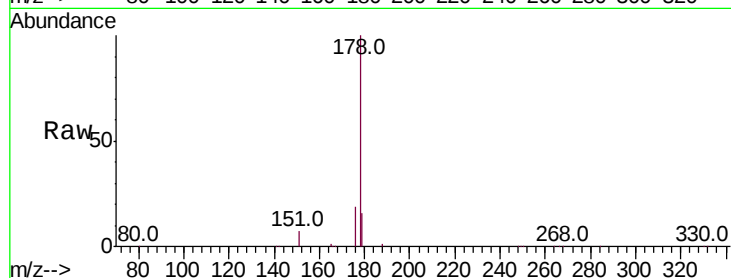
Tot Ion:178 Resp: 29983

Ion Ratio Lower Upper

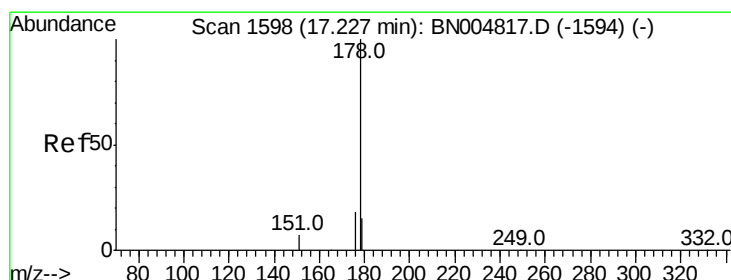
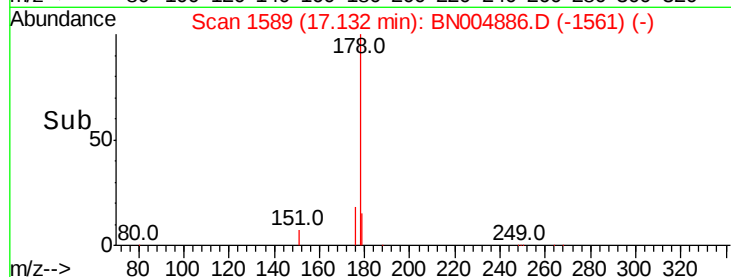
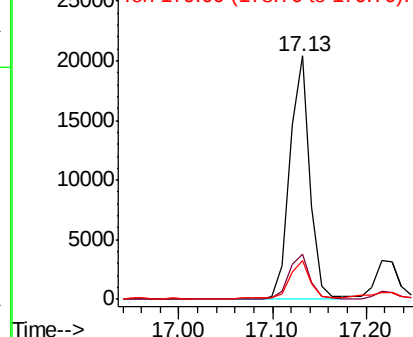
178 100

176 18.8 14.9 22.3

179 15.5 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.113 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

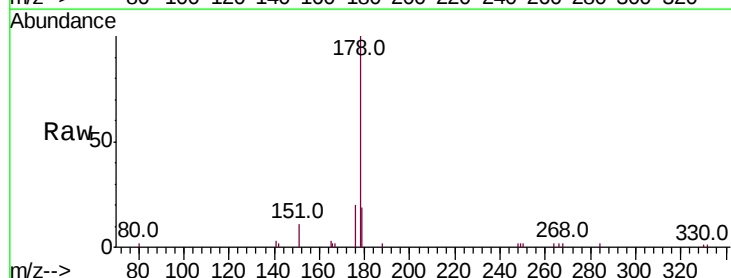
Tgt Ion:178 Resp: 5107

Ion Ratio Lower Upper

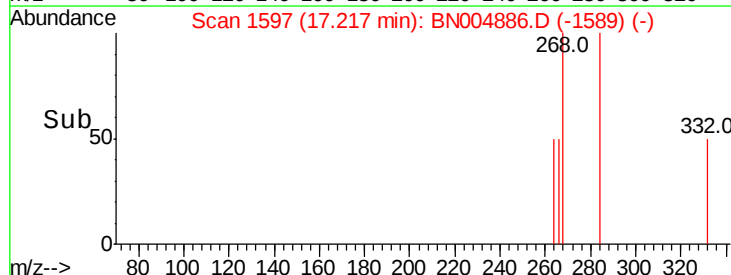
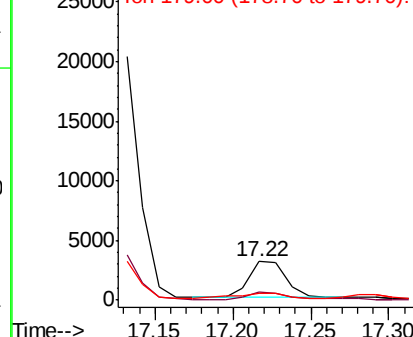
178 100

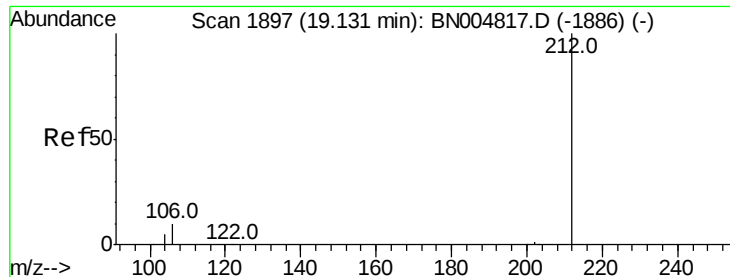
176 19.4 14.5 21.7

179 19.6 12.2 18.4#



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: 0.315 ng

RT: 19.12 min Scan# 1895

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

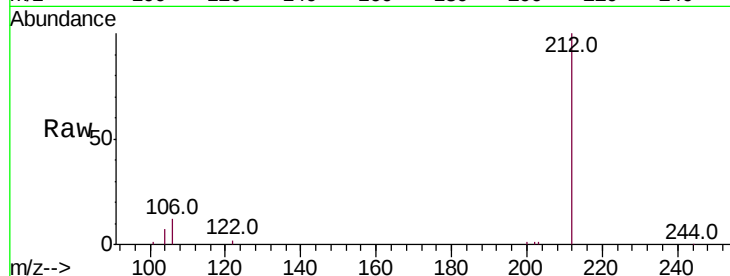
Tot Ion:212 Resp: 16568

Ion Ratio Lower Upper

212 100

106 12.0 8.6 13.0

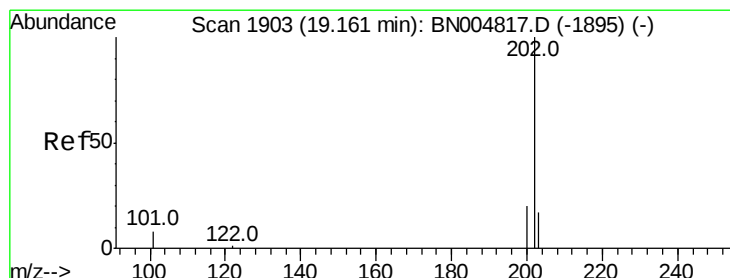
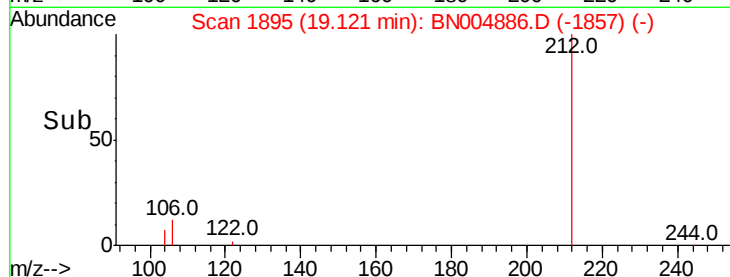
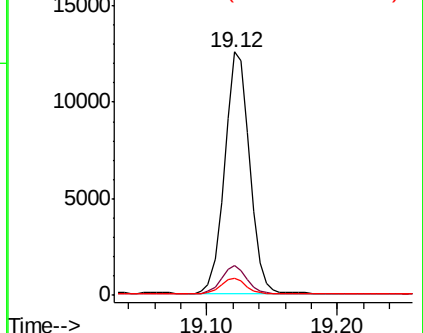
104 6.7 4.7 7.1



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: 1.064 ng

RT: 19.16 min Scan# 1902

Delta R.T. -0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

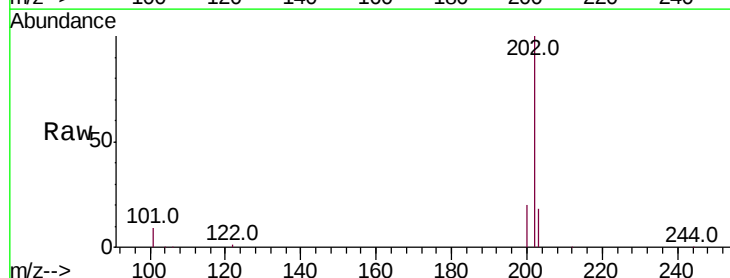
Tgt Ion:202 Resp: 69305

Ion Ratio Lower Upper

202 100

101 10.0 7.5 11.3

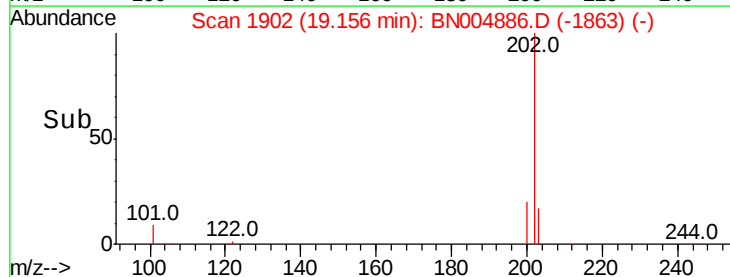
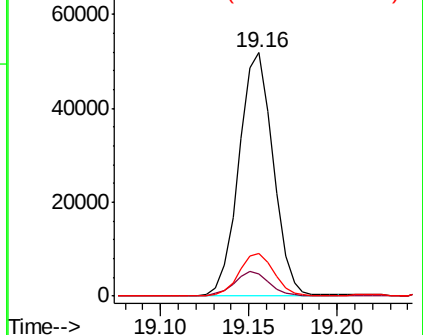
203 17.5 13.8 20.6

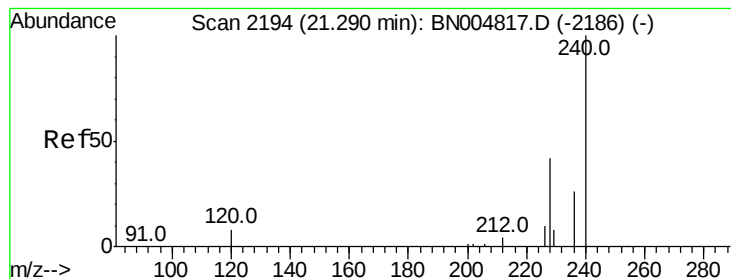


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.29 min Scan# 2194

Delta R.T. 0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

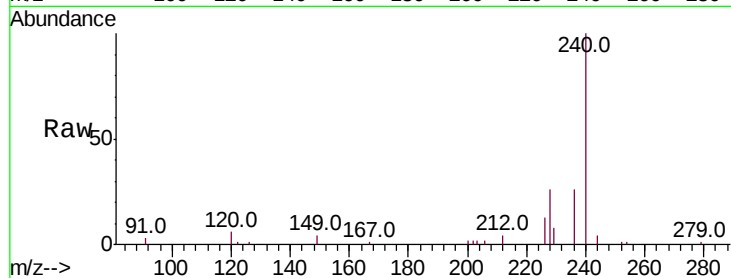
Tot Ion:240 Resp: 20863

Ion Ratio Lower Upper

240 100

120 6.0 7.2 10.8#

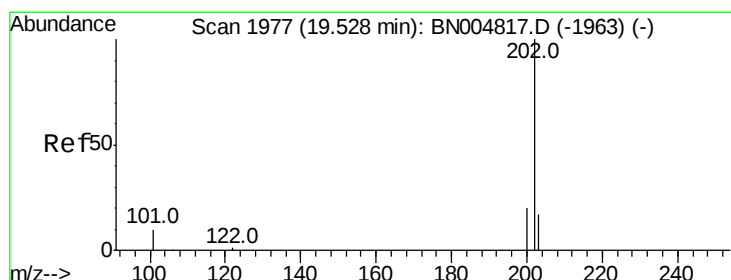
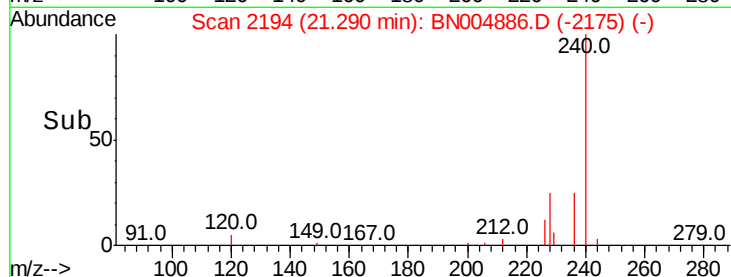
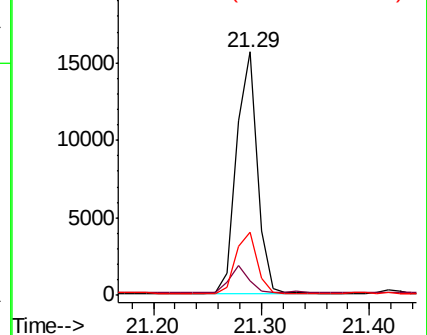
236 26.0 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 1.055 ng

RT: 19.52 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

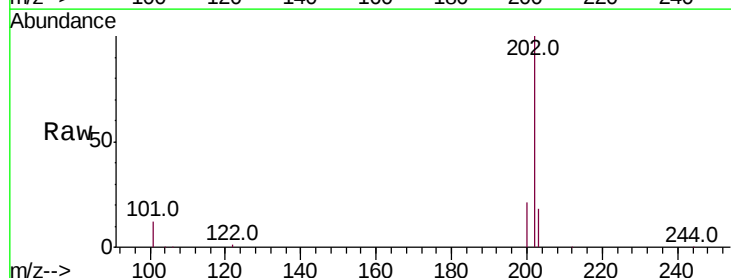
Tgt Ion:202 Resp: 67111

Ion Ratio Lower Upper

202 100

200 20.7 16.3 24.5

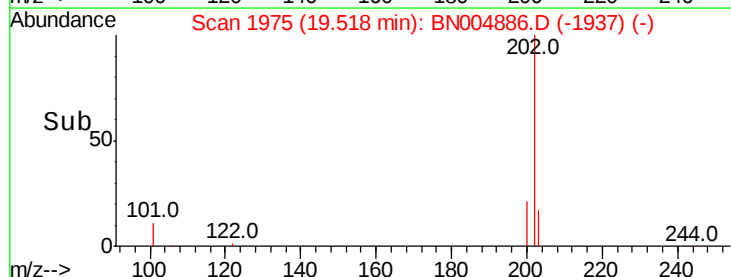
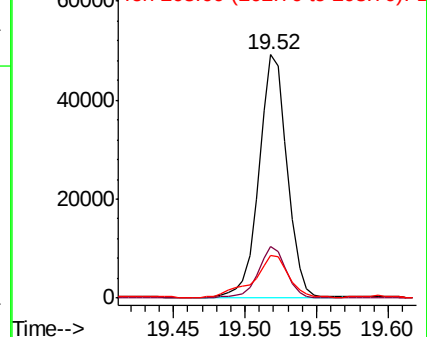
203 21.4 14.0 21.0#

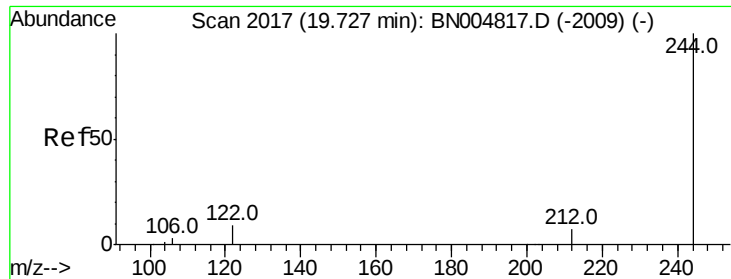


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.301 ng

RT: 19.72 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

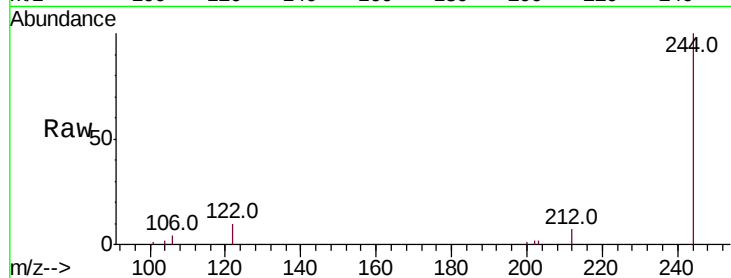
Tot Ion:244 Resp: 12830

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.6

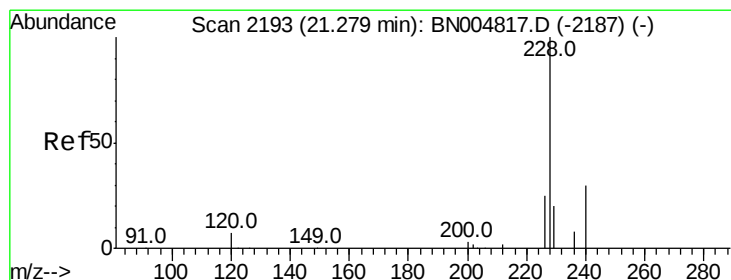
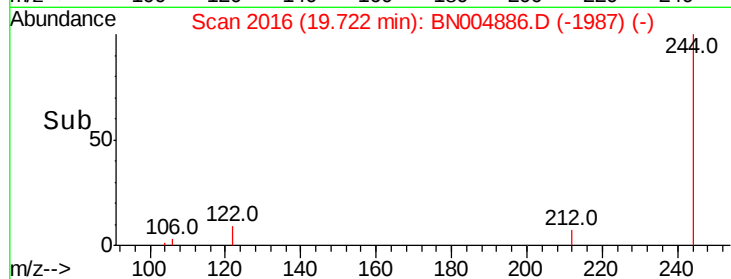
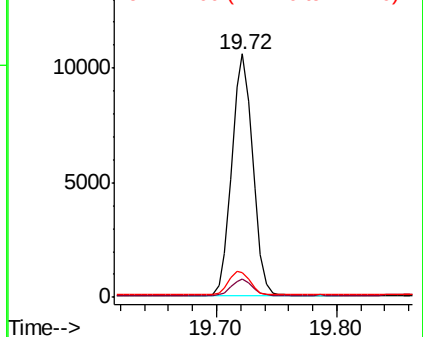
122 10.0 7.9 11.9



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: 0.604 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

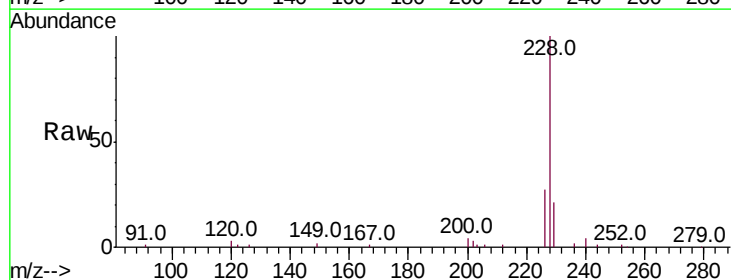
Tgt Ion:228 Resp: 41322

Ion Ratio Lower Upper

228 100

226 27.4 20.6 31.0

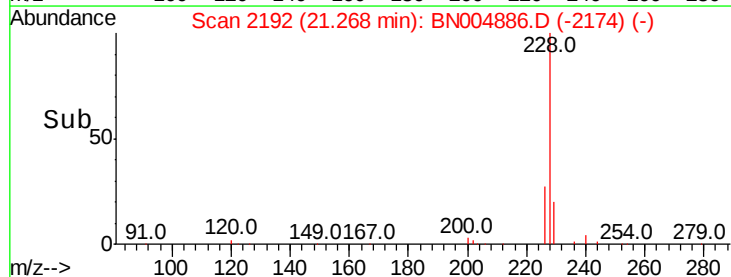
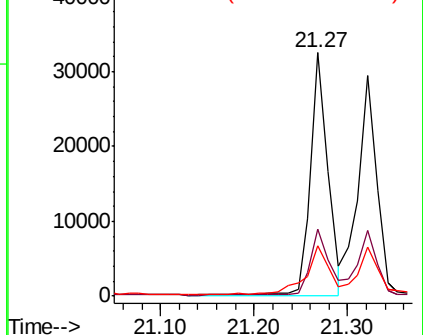
229 20.8 16.2 24.4

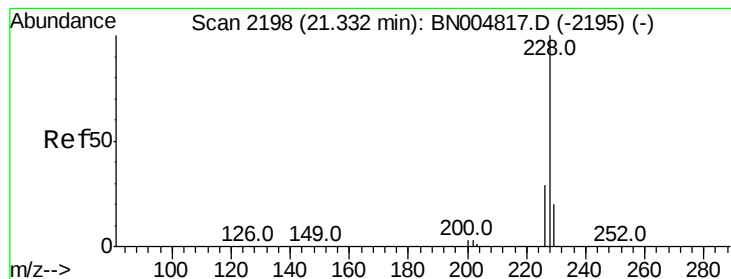


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.566 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

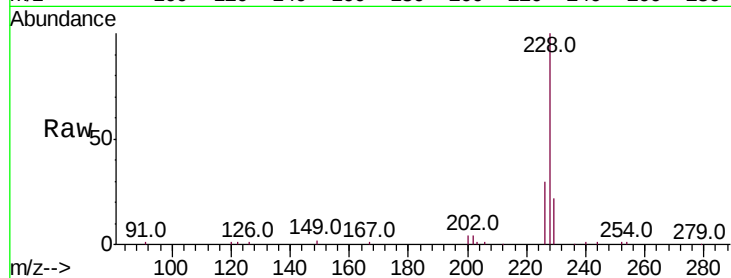
BNA_N

ClientSampleId :

PST-027-B107-030619

Tot Ion:228 Resp: 40820

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.0	34.6
229	22.2	16.2	24.2

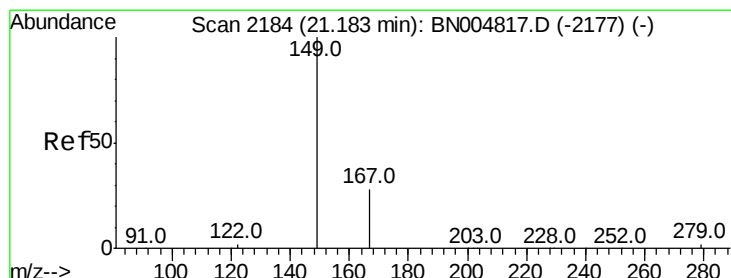
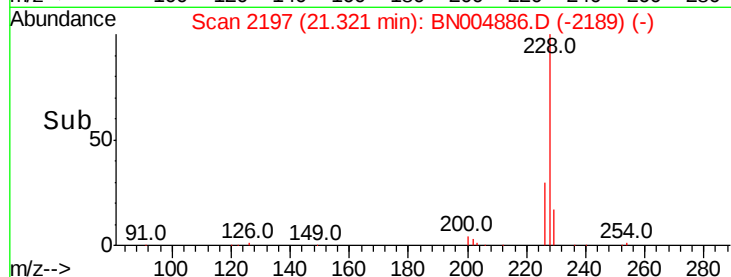
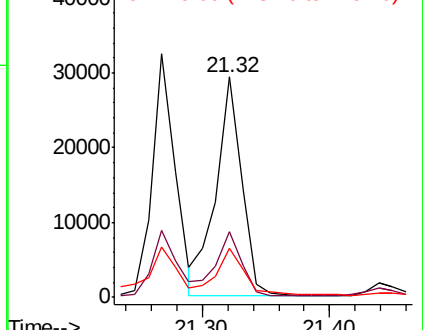


Abundance

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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.096 ng

RT: 21.18 min Scan# 2184

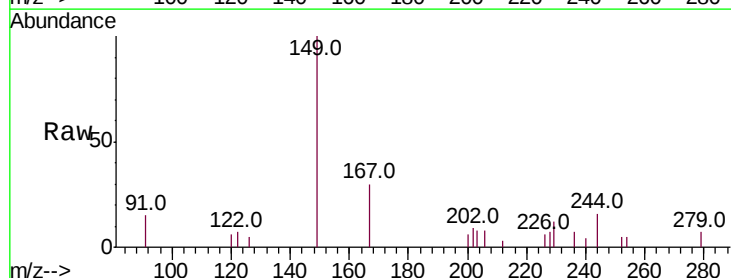
Delta R.T. 0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Tgt Ion:149 Resp: 2625

Ion	Ratio	Lower	Upper
149	100		
167	29.9	23.0	34.4
279	6.1	4.6	6.8

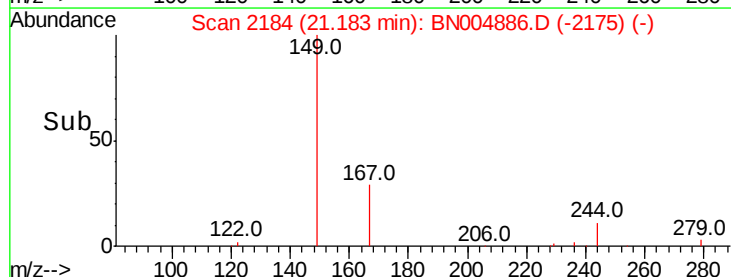
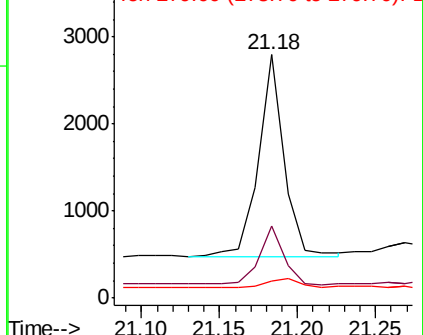


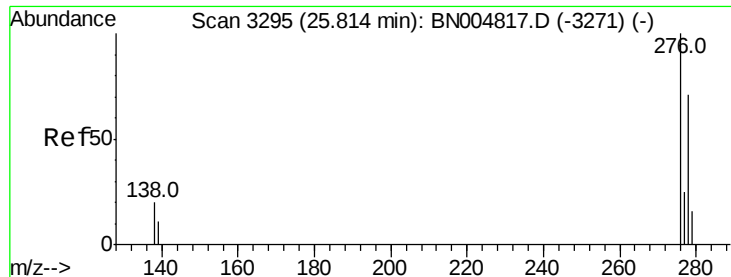
Abundance

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: 0.200 ng

RT: 25.81 min Scan# 3293

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

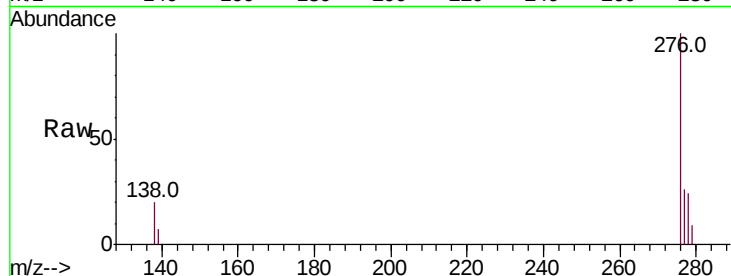
Tot Ion:276 Resp: 20803

Ion Ratio Lower Upper

276 100

138 19.0 16.6 24.8

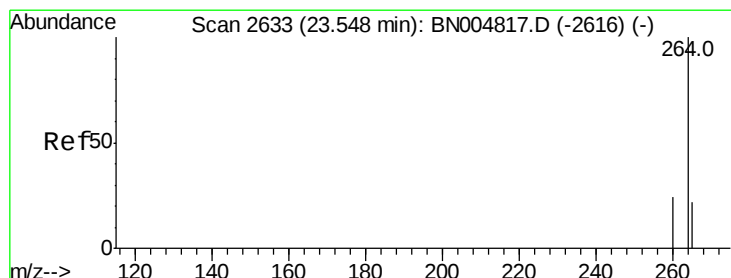
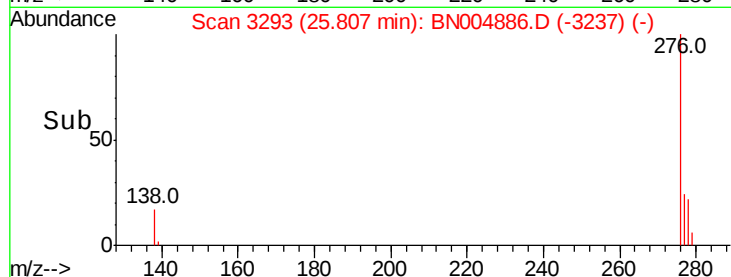
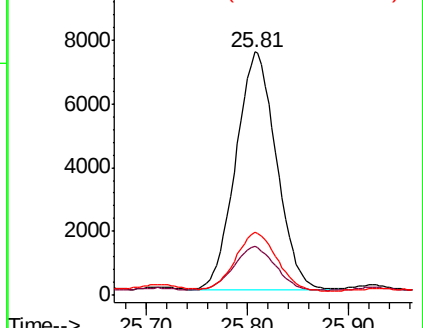
277 24.9 20.3 30.5



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# 2631

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

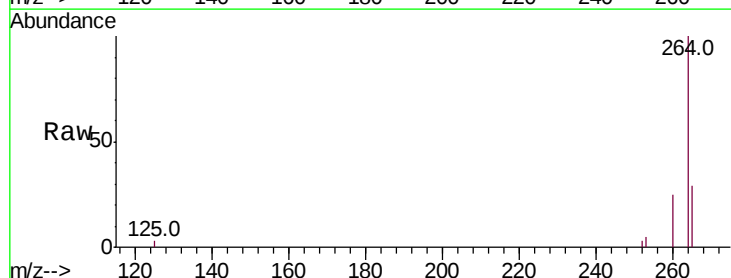
Tgt Ion:264 Resp: 21678

Ion Ratio Lower Upper

264 100

260 24.5 19.5 29.3

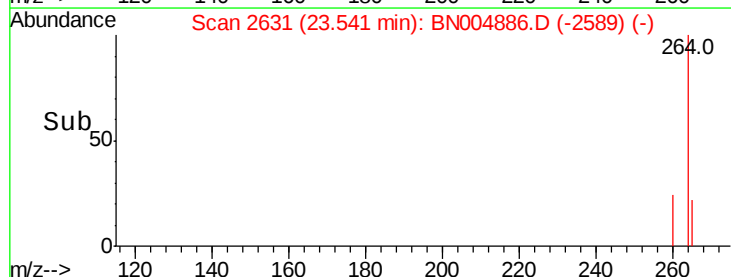
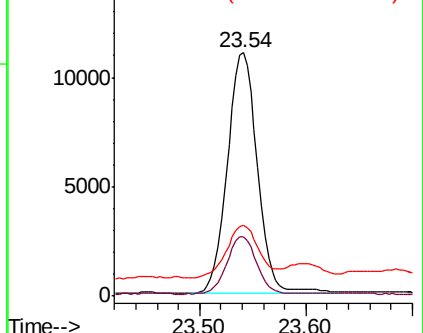
265 29.1 23.1 34.7

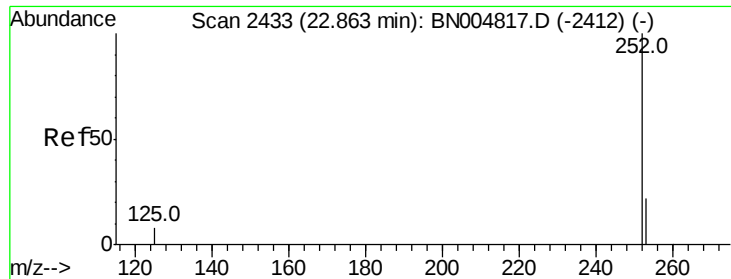


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.630 ng

RT: 22.86 min Scan# 2432

Delta R.T. -0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

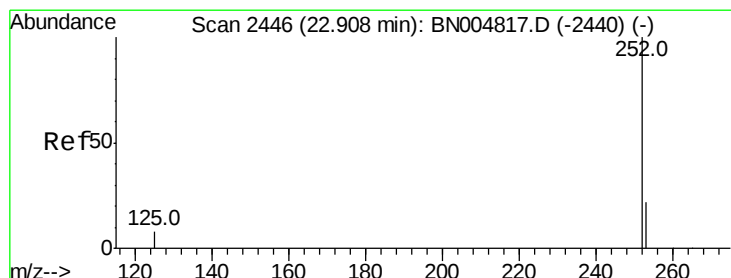
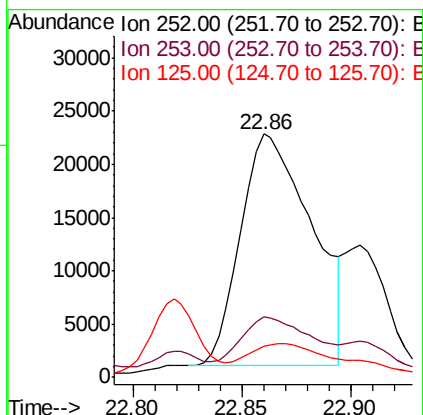
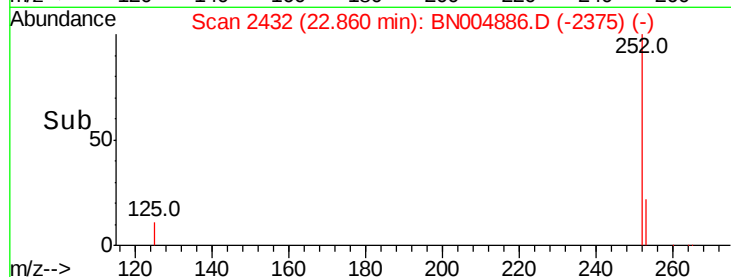
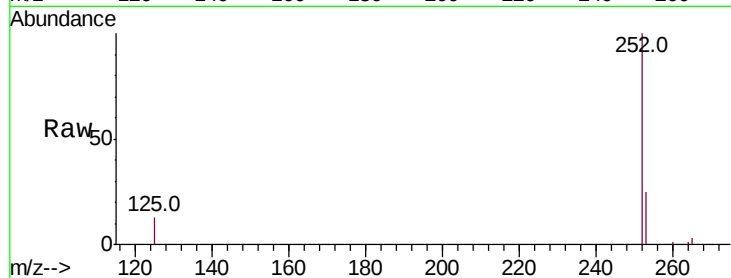
Tot Ion:252 Resp: 49432

Ion Ratio Lower Upper

252 100

253 24.6 19.0 28.4

125 12.9 7.4 11.2#



#36

Benzo(k)fluoranthene

Concen: 0.641 ng

RT: 22.86 min Scan# 2432

Delta R.T. -0.05 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

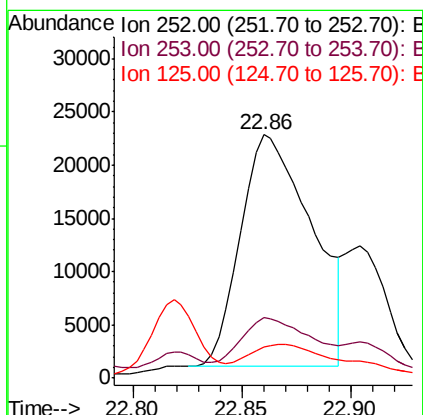
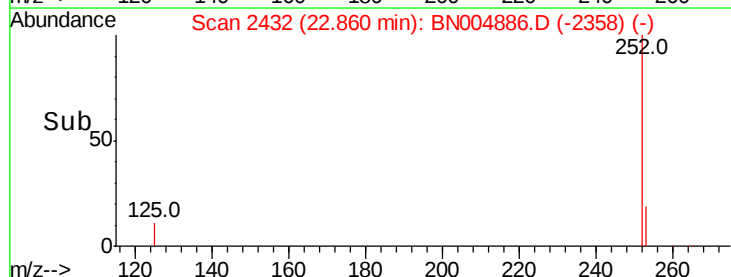
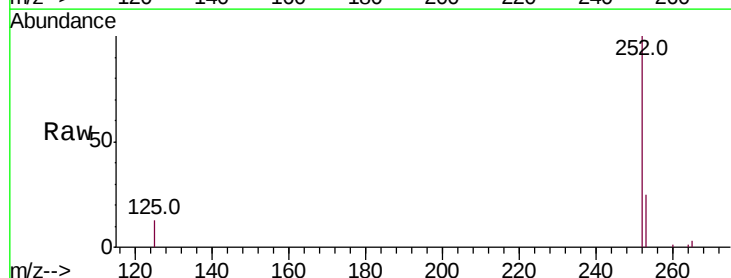
Tgt Ion:252 Resp: 49432

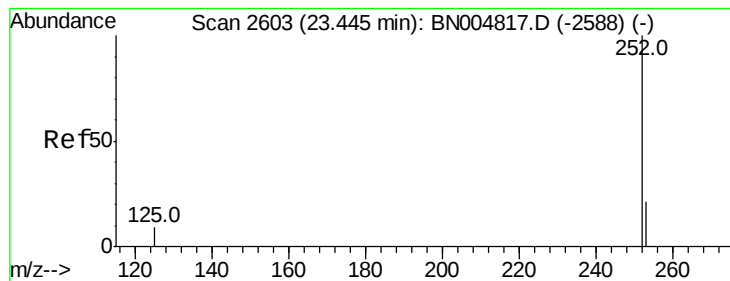
Ion Ratio Lower Upper

252 100

253 24.6 19.3 28.9

125 12.9 7.4 11.0#





#37

Benzo(a)pyrene

Concen: 0.494 ng

RT: 23.44 min Scan# 2602

Delta R.T. -0.00 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

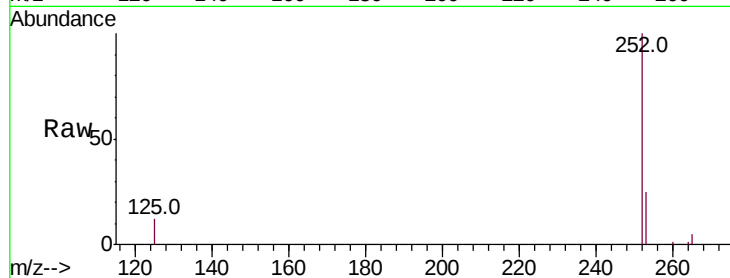
Tot Ion:252 Resp: 35563

Ion Ratio Lower Upper

252 100

253 25.1 19.7 29.5

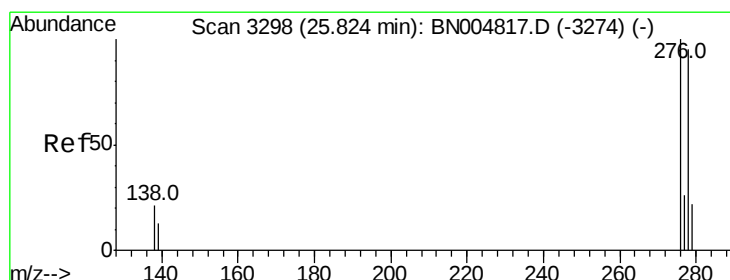
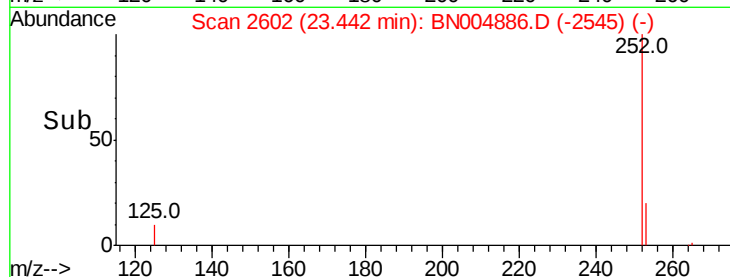
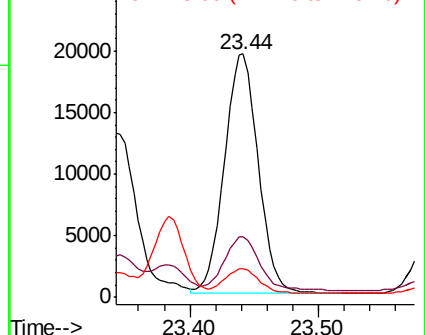
125 11.9 8.3 12.5



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: 0.072 ng

RT: 25.81 min Scan# 3295

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

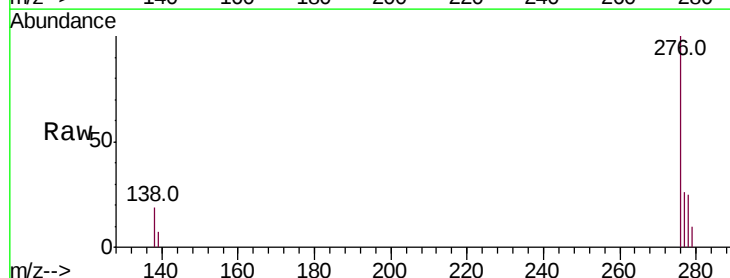
Tgt Ion:278 Resp: 5988

Ion Ratio Lower Upper

278 100

139 26.3 11.7 17.5#

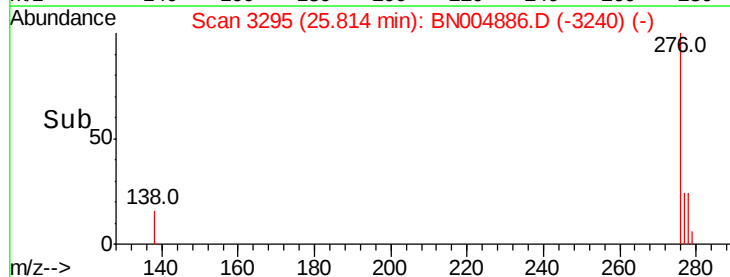
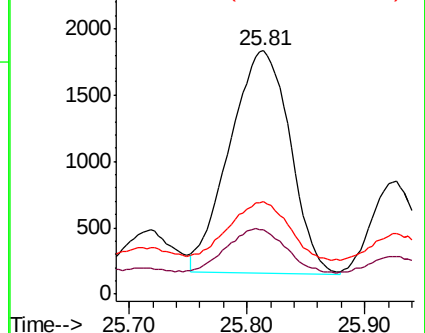
279 37.9 19.9 29.9#

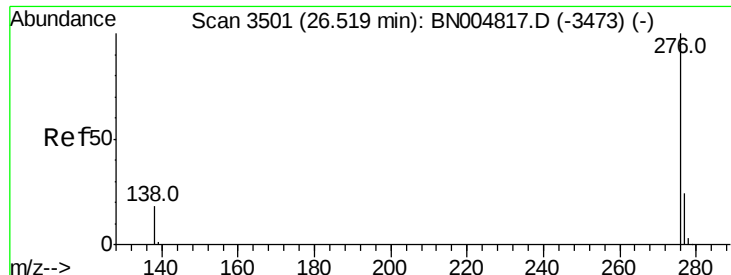


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.230 ng

RT: 26.51 min Scan# 3498

Delta R.T. -0.01 min

Lab File: BN004886.D

Acq: 22 Mar 2019 13:02

Instrument :

BNA_N

ClientSampleId :

PST-027-B107-030619

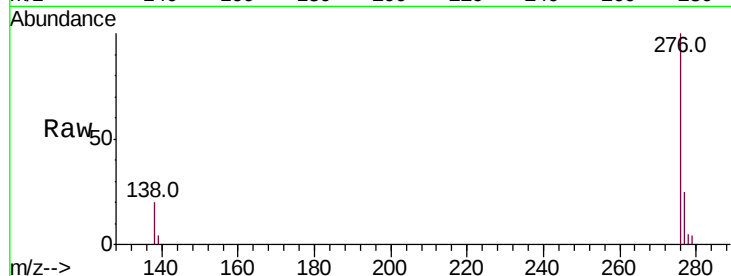
Tot Ion:276 Resp: 19550

Ion Ratio Lower Upper

276 100

277 25.4 19.7 29.5

138 20.4 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

