

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082019\
 Data File : BN007279.D
 Acq On : 21 Aug 2019 04:50
 Operator : HP/JU
 Sample : K4282-07RX
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 21 08:24:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 20 18:52:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.41	152	5619	0.40	ng	0.00
7) Naphthalene-d8	10.16	136	21390	0.40	ng	0.00
13) Acenaphthene-d10	14.05	164	12300	0.40	ng	0.00
19) Phenanthrene-d10	16.81	188	28801	0.40	ng	0.00
27) Chrysene-d12	21.03	240	29600	0.40	ng	0.00
34) Perylene-d12	23.13	264	32947	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.04	112	5657	0.33	ng	0.00
5) Phenol-d6	6.60	99	7268	0.37	ng	0.00
8) Nitrobenzene-d5	8.54	82	5330	0.32	ng	0.00
11) 2-Methylnaphthalene-d10	11.77	152	12088	0.33	ng	0.00
14) 2,4,6-Tribromophenol	15.56	330	1158	0.17	ng	0.00
15) 2-Fluorobiphenyl	12.67	172	16142	0.31	ng	0.00
25) Fluoranthene-d10	18.85	212	27913	0.31	ng	0.00
29) Terphenyl-d14	19.47	244	21395	0.29	ng	0.00

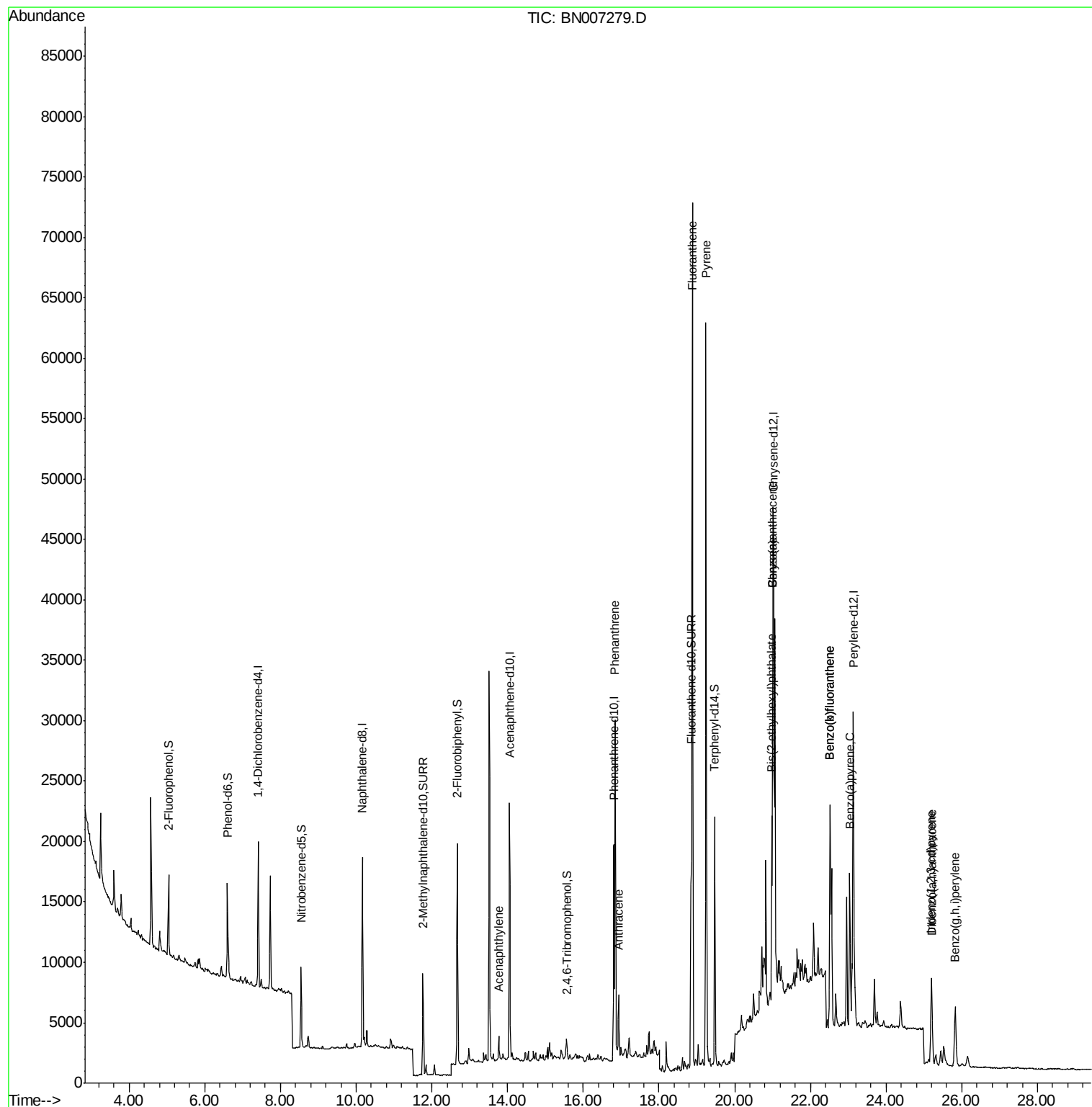
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acenaphthylene	13.77	152	3419	0.052	ng	98
23) Phenanthrene	16.84	178	31409	0.348	ng	99
24) Anthracene	16.94	178	4236	0.052	ng	# 91
26) Fluoranthene	18.88	202	64055	0.586	ng	100
28) Pyrene	19.24	202	57345	0.518	ng	# 95
30) Benzo(a)anthracene	21.01	228	24869	0.226	ng	93
31) Chrysene	21.01	228	23014	0.205	ng	97
32) Bis(2-ethylhexyl)phthalate	20.97	149	14494	0.329	ng	98
33) Indeno(1,2,3-cd)pyrene	25.20	276	10565	0.078	ng	98
35) Benzo(b)fluoranthene	22.52	252	28845	0.235	ng	# 93
36) Benzo(k)fluoranthene	22.52	252	28845	0.240	ng	# 93
37) Benzo(a)pyrene	23.04	252	16719	0.151	ng	# 91
38) Dibenzo(a,h)anthracene	25.21	278	3048	0.026	ng	# 38
39) Benzo(g,h,i)perylene	25.82	276	10101	0.086	ng	# 91

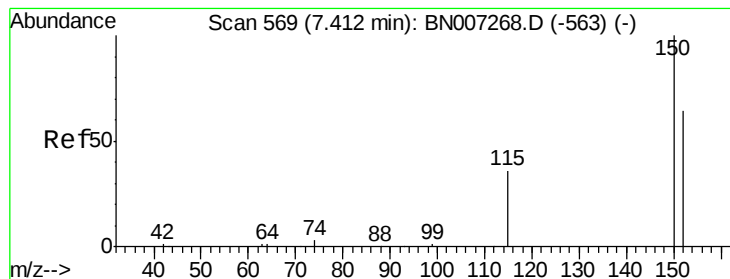
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.41 min Scan# 569

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

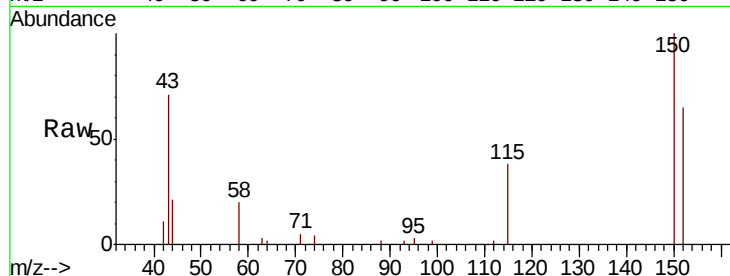
Tot Ion:152 Resp: 5619

Ion Ratio Lower Upper

152 100

150 153.6 123.8 185.8

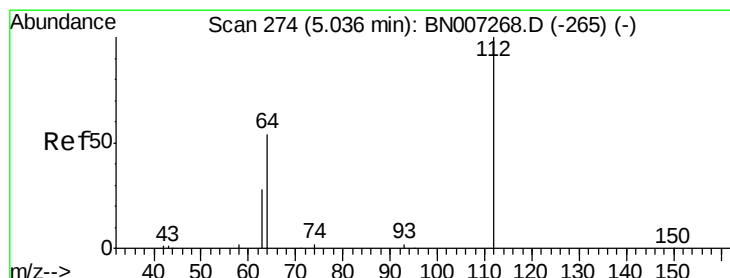
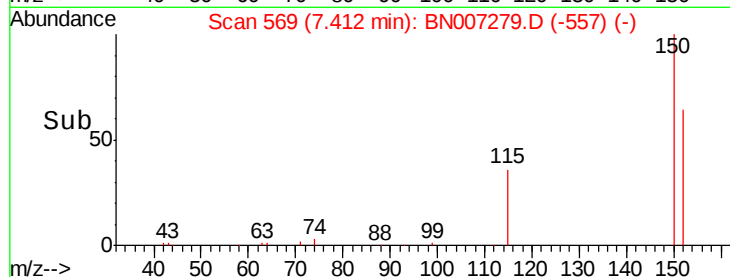
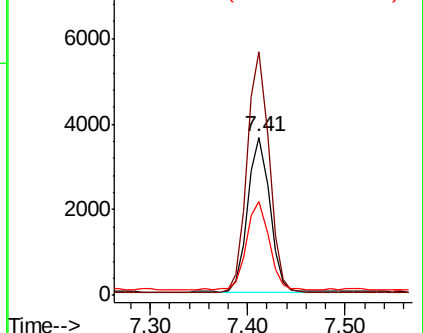
115 59.0 47.3 70.9



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: 0.330 ng

RT: 5.04 min Scan# 275

Delta R.T. 0.01 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

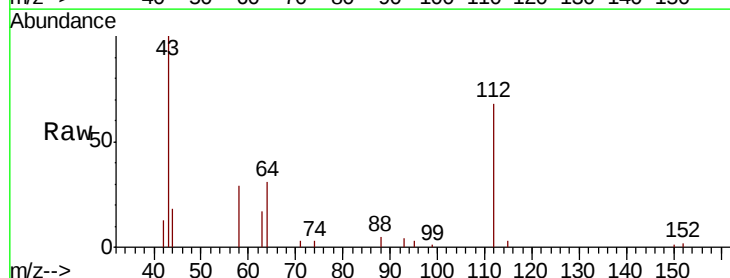
Tgt Ion:112 Resp: 5657

Ion Ratio Lower Upper

112 100

64 53.1 41.8 62.8

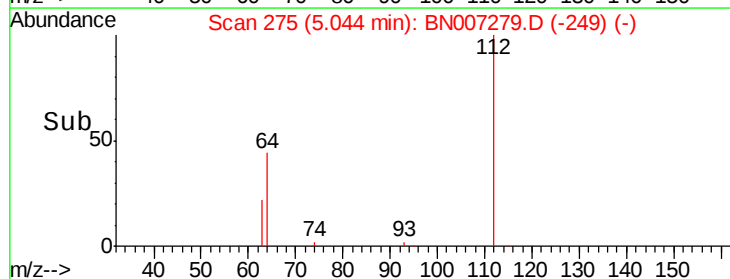
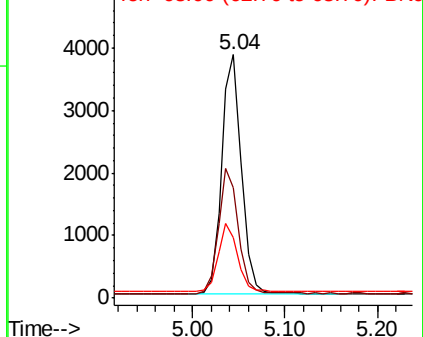
63 28.0 22.6 34.0

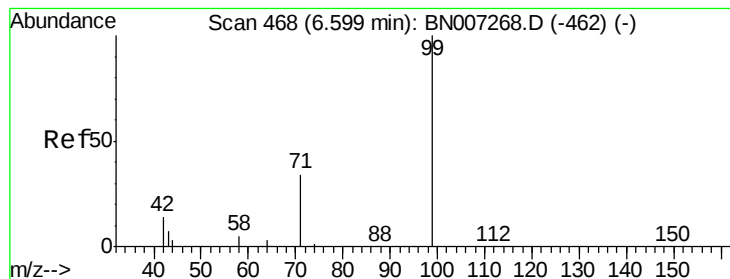


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.368 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

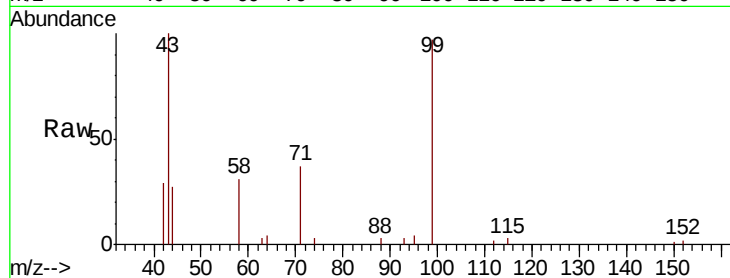
Tot Ion: 99 Resp: 7268

Ion Ratio Lower Upper

99 100

42 20.6 14.3 21.5

71 35.9 27.3 40.9



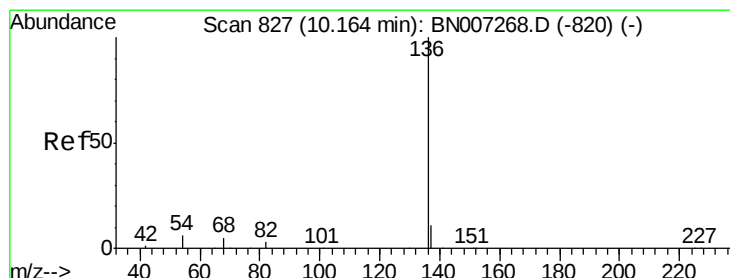
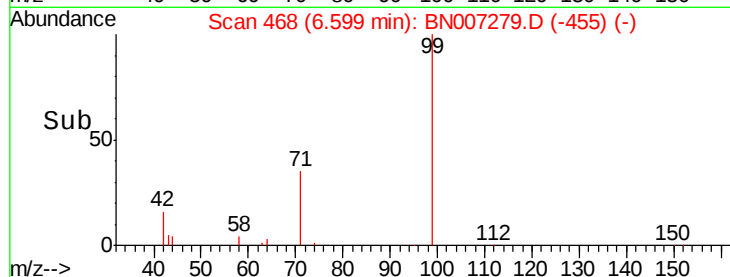
Abundance Ion 99.00 (98.70 to 99.70): BN007268.D (-462) (-)

Ion 42.00 (41.70 to 42.70): BN007268.D (-462) (-)

Ion 71.00 (70.70 to 71.70): BN007268.D (-462) (-)

6.60

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.16 min Scan# 827

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Tgt Ion: 136 Resp: 21390

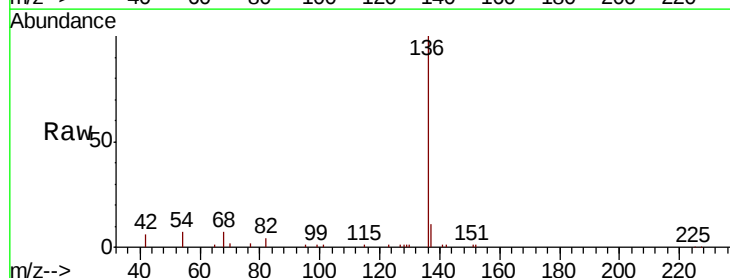
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 7.1 5.9 8.9

68 6.8 5.6 8.4



Abundance Ion 136.00 (135.70 to 136.70): BN007268.D (-820) (-)

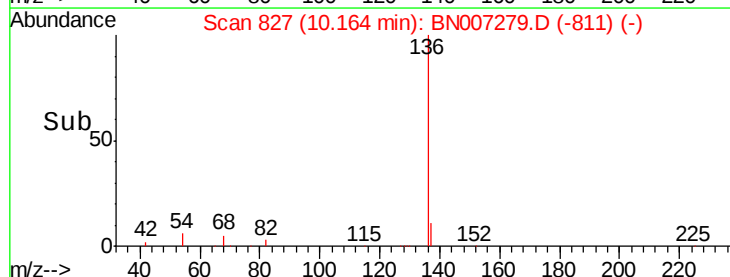
Ion 137.00 (136.70 to 137.70): BN007268.D (-820) (-)

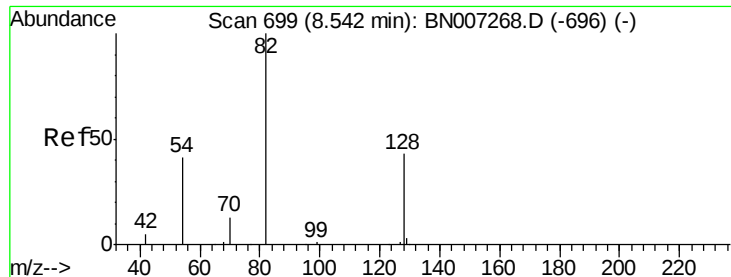
Ion 54.00 (53.70 to 54.70): BN007268.D (-820) (-)

Ion 68.00 (67.70 to 68.70): BN007268.D (-820) (-)

10.16

Time-->





#8

Nitrobenzene-d5

Concen: 0.325 ng

RT: 8.54 min Scan# 699

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

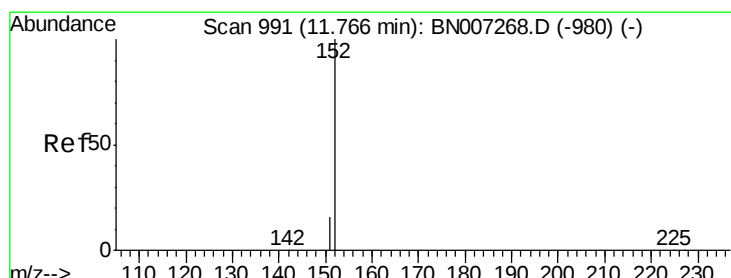
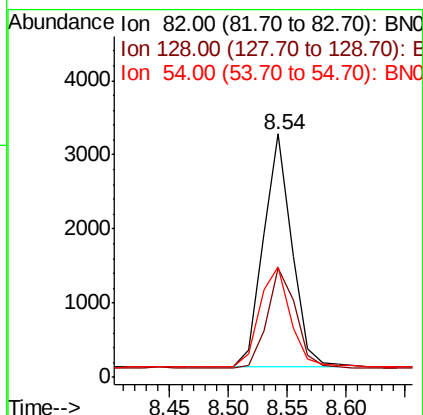
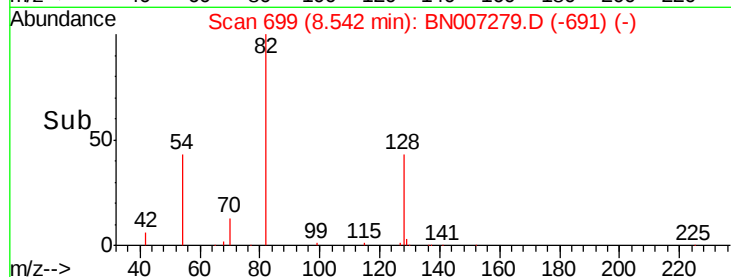
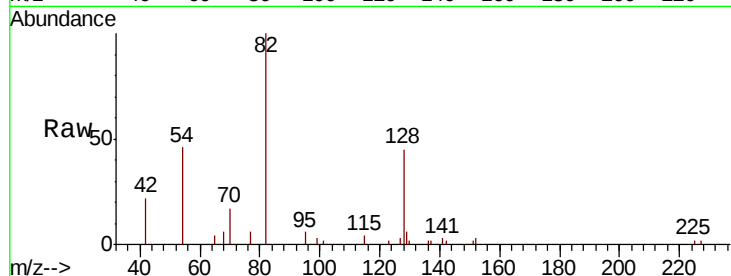
Tot Ion: 82 Resp: 5330

Ion Ratio Lower Upper

82 100

128 45.0 35.8 53.6

54 45.6 34.7 52.1



#11

2-Methylnaphthalene-d10

Concen: 0.327 ng

RT: 11.77 min Scan# 991

Delta R.T. 0.00 min

Lab File: BN007279.D

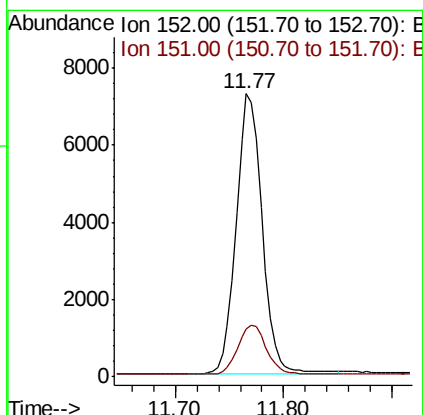
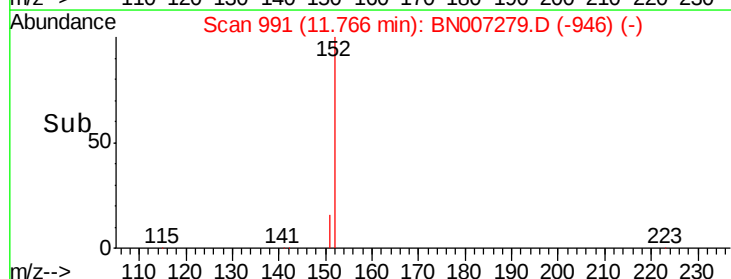
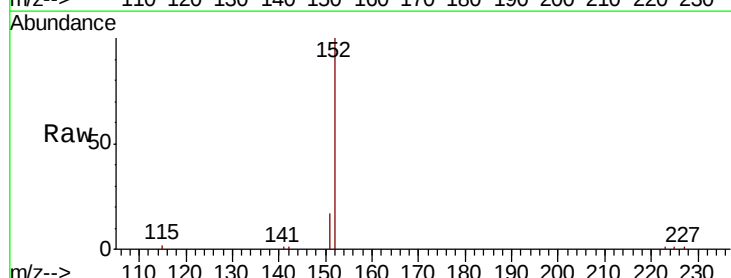
Acq: 21 Aug 2019 04:50

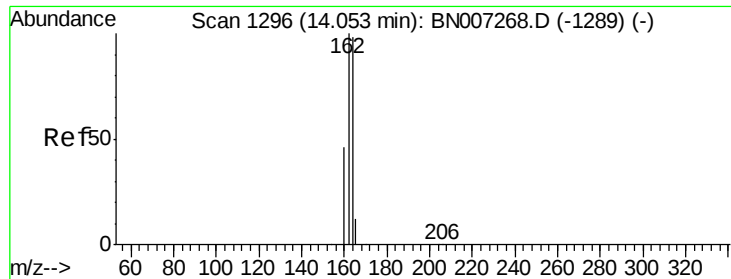
Tgt Ion: 152 Resp: 12088

Ion Ratio Lower Upper

152 100

151 19.3 15.2 22.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

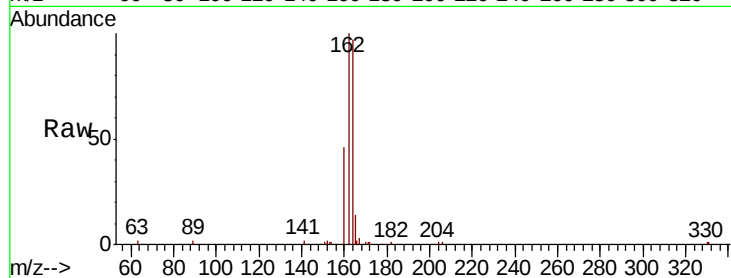
Tot Ion:164 Resp: 12300

Ion Ratio Lower Upper

164 100

162 102.6 82.0 123.0

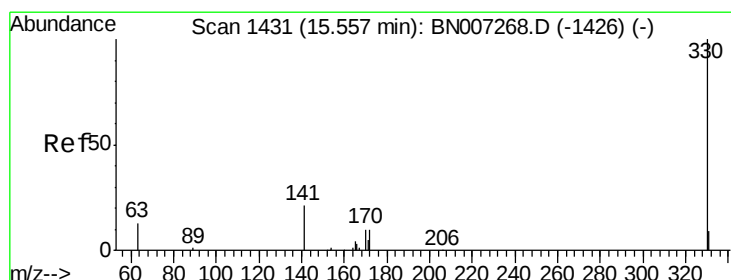
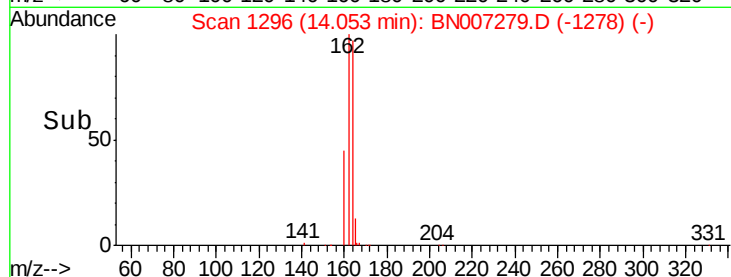
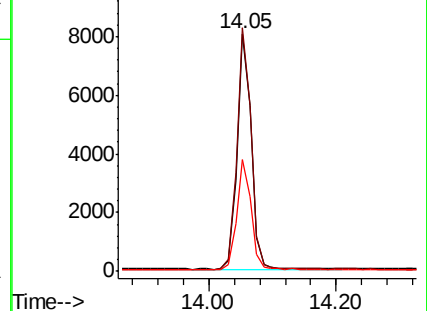
160 47.1 38.2 57.4



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: 0.168 ng

RT: 15.56 min Scan# 1431

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

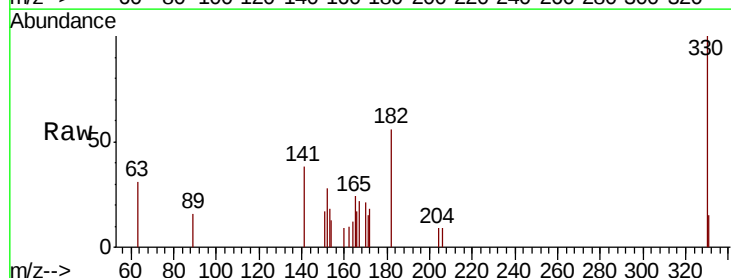
Tgt Ion:330 Resp: 1158

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

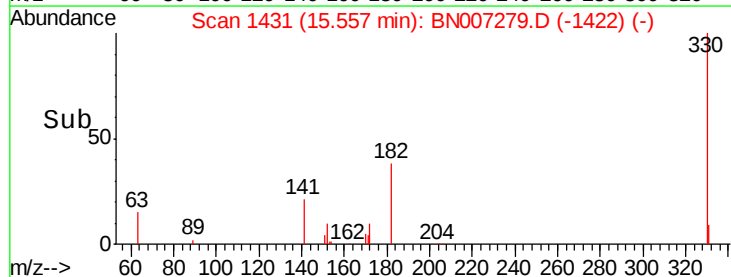
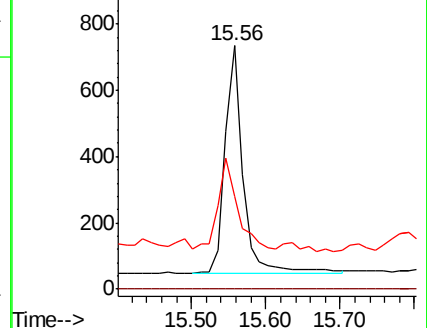
141 43.6 30.3 45.5

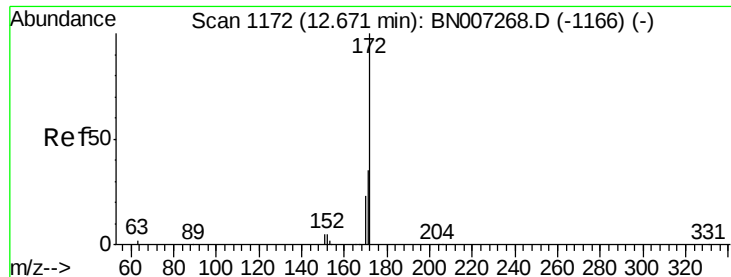


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

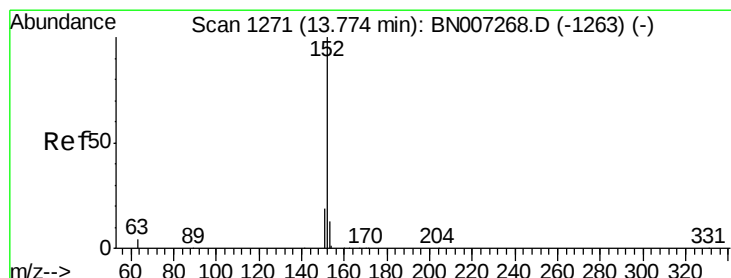
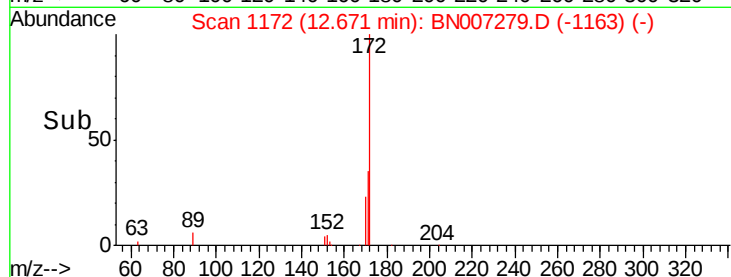
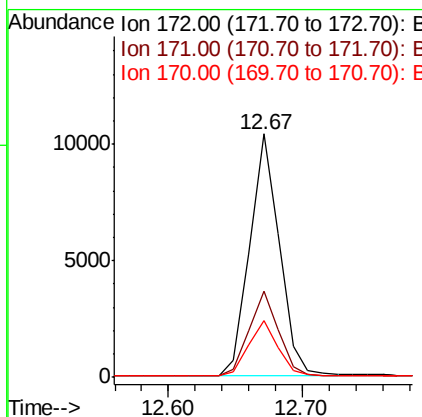
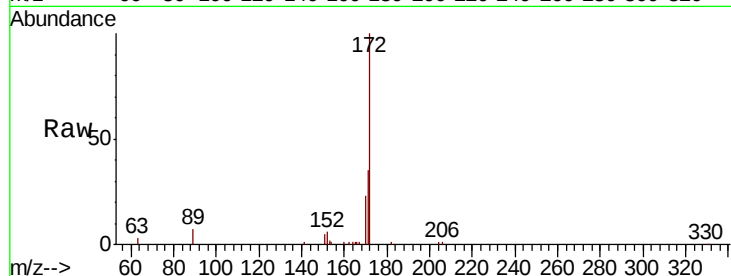




#15
2-Fluorobiphenyl
Concen: 0.306 ng
RT: 12.67 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007279.D
Acq: 21 Aug 2019 04:50

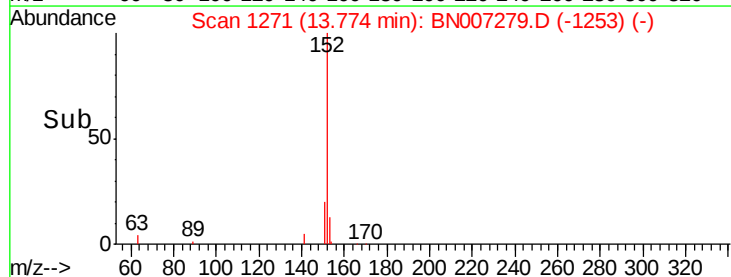
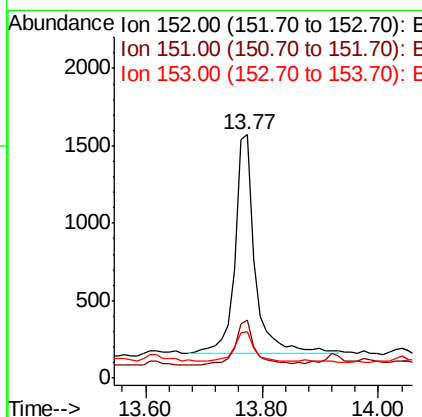
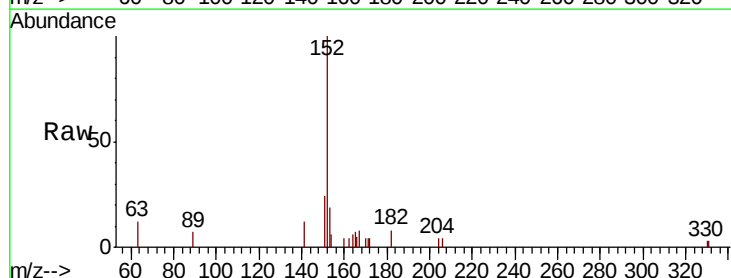
Instrument :
BNA_N
ClientSampled :

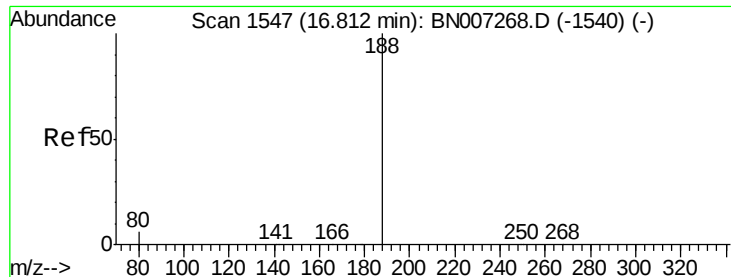
Tot Ion:172 Resp: 16142
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.2 18.7 28.1



#16
Acenaphthylene
Concen: 0.052 ng
RT: 13.77 min Scan# 1271
Delta R.T. 0.00 min
Lab File: BN007279.D
Acq: 21 Aug 2019 04:50

Tgt Ion:152 Resp: 3419
Ion Ratio Lower Upper
152 100
151 20.1 15.4 23.2
153 13.1 10.1 15.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.81 min Scan# 1547

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

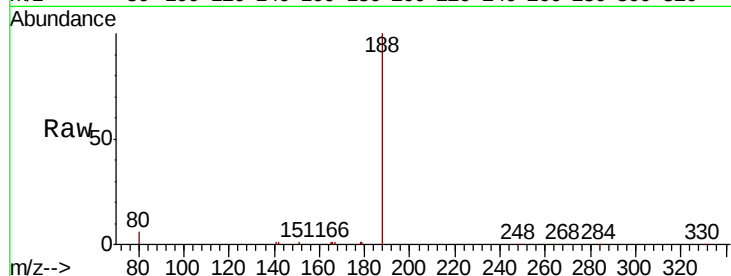
Tot Ion:188 Resp: 28801

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

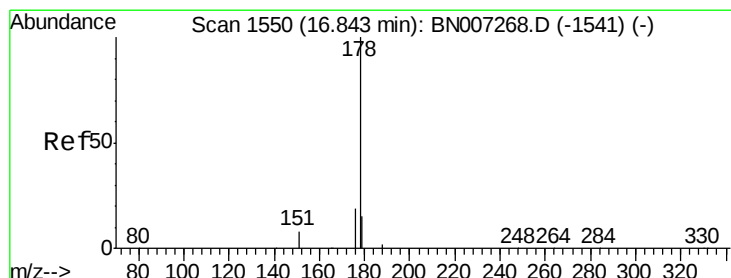
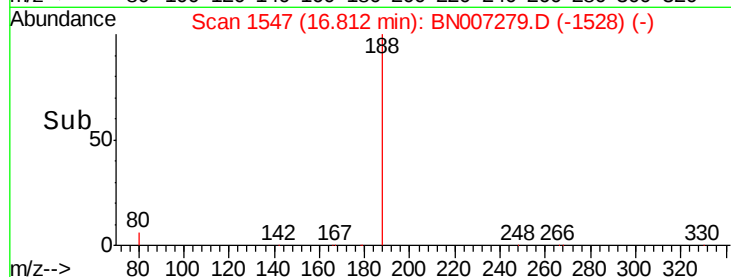
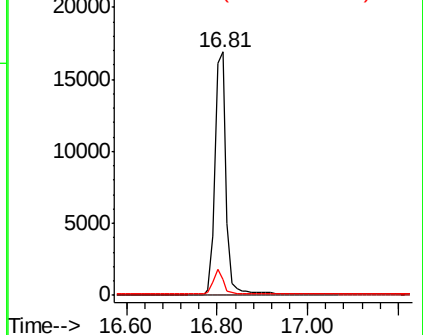
80 6.3 5.2 7.8



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: 0.348 ng

RT: 16.84 min Scan# 1550

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

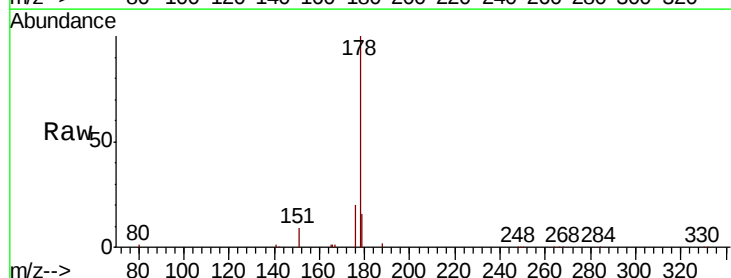
Tgt Ion:178 Resp: 31409

Ion Ratio Lower Upper

178 100

176 18.6 15.2 22.8

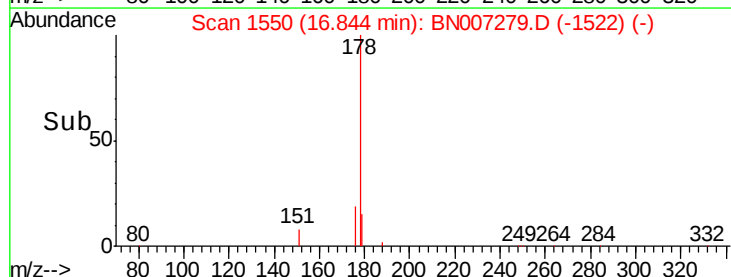
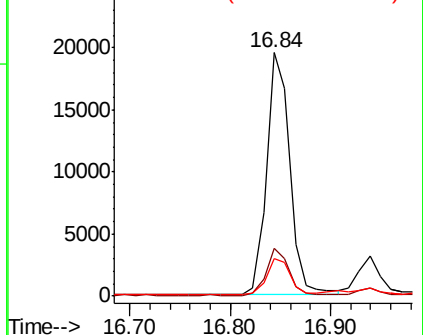
179 15.5 12.3 18.5

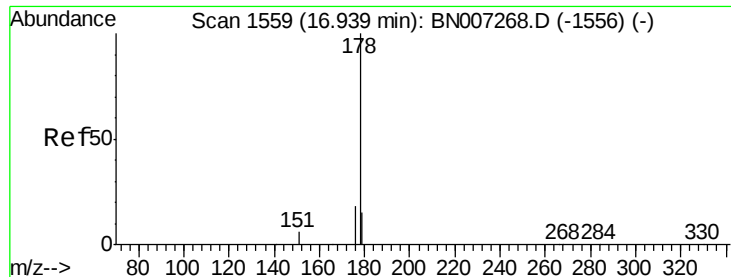


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.052 ng

RT: 16.94 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampled :

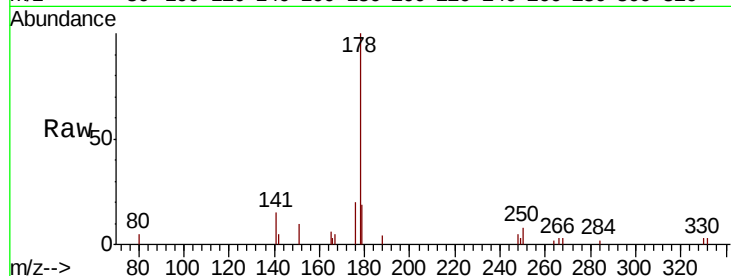
Tot Ion:178 Resp: 4236

Ion Ratio Lower Upper

178 100

176 18.9 14.3 21.5

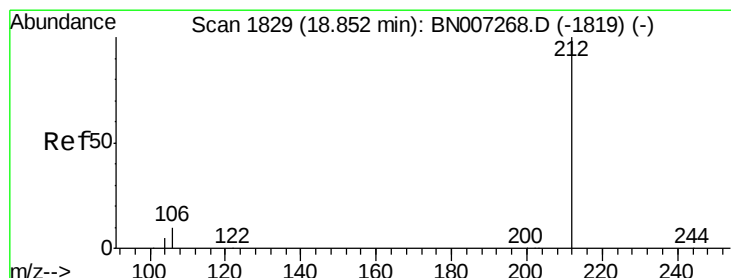
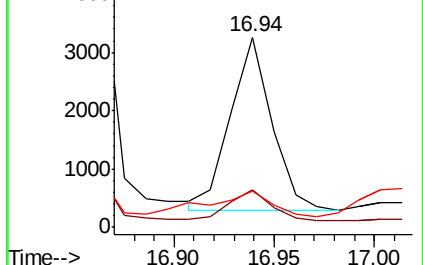
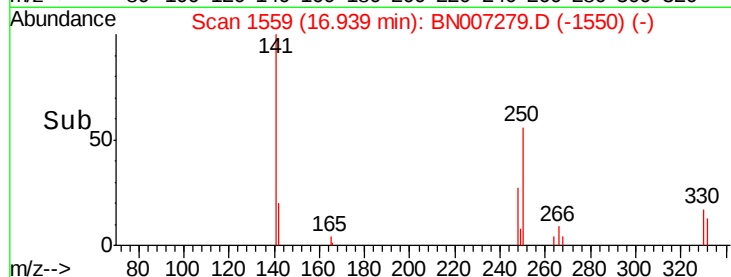
179 22.3 12.3 18.5#



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: 0.306 ng

RT: 18.85 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

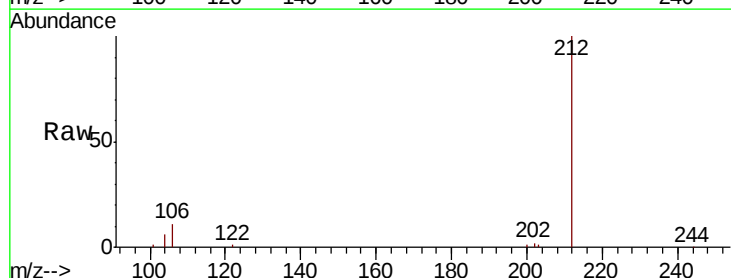
Tgt Ion:212 Resp: 27913

Ion Ratio Lower Upper

212 100

106 10.5 8.2 12.4

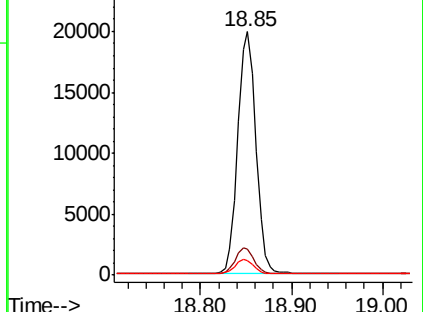
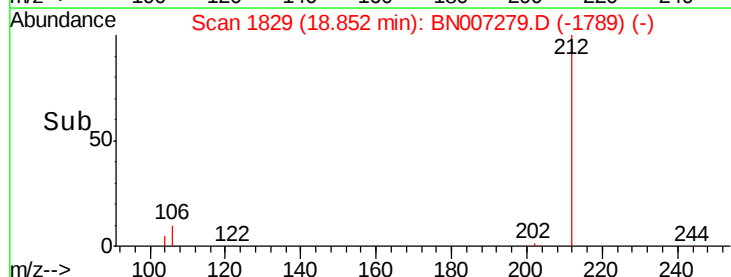
104 5.9 4.7 7.1

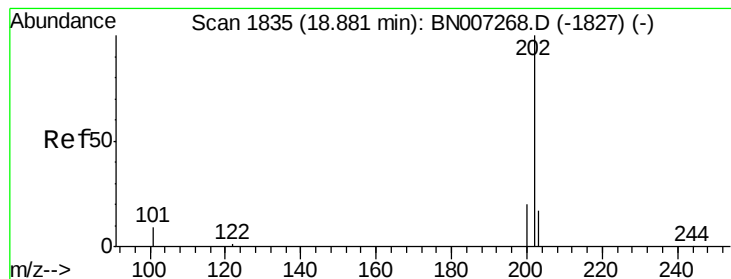


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.586 ng

RT: 18.88 min Scan# 1835

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

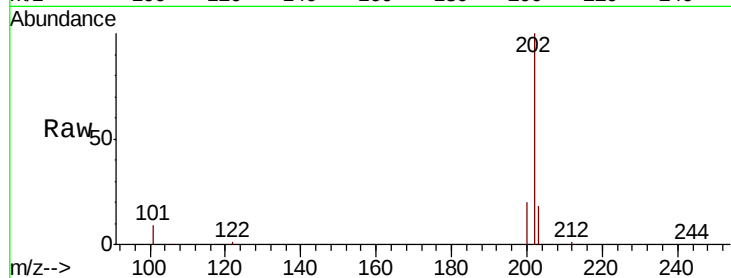
Tot Ion:202 Resp: 64055

Ion Ratio Lower Upper

202 100

101 8.9 7.2 10.8

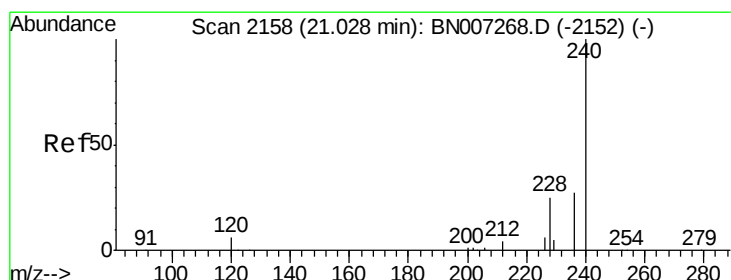
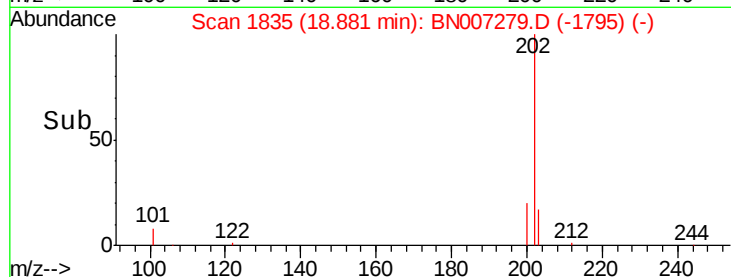
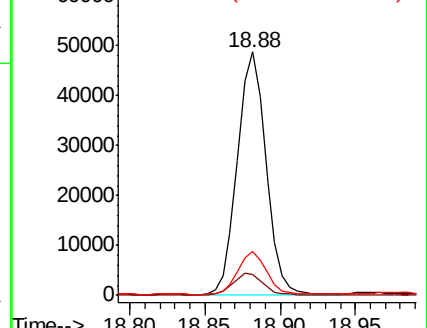
203 17.4 13.8 20.6



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: 21.03 min Scan# 2158

Delta R.T. 0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

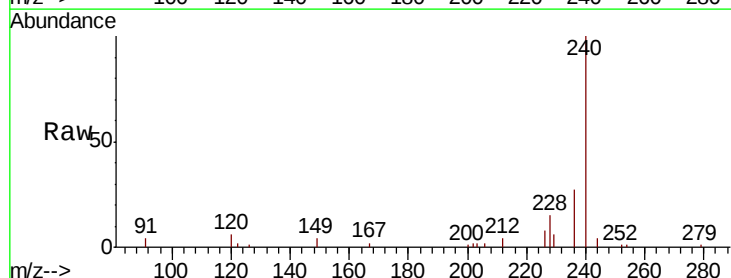
Tgt Ion:240 Resp: 29600

Ion Ratio Lower Upper

240 100

120 6.4 5.6 8.4

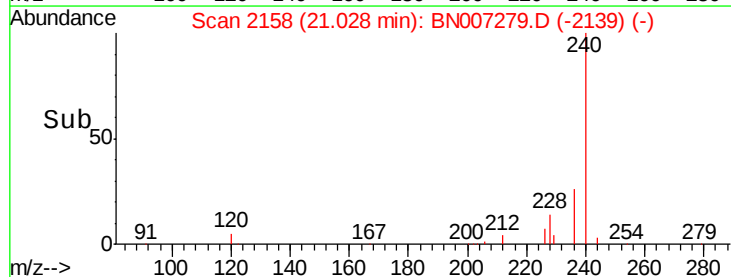
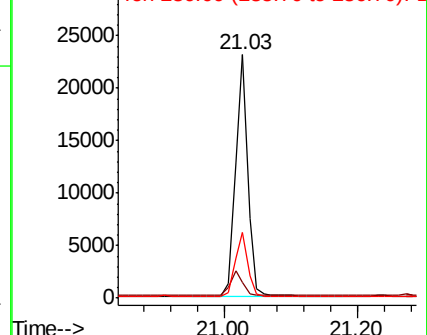
236 27.1 21.6 32.4

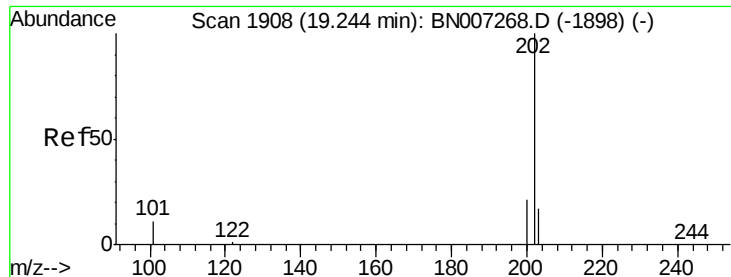


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

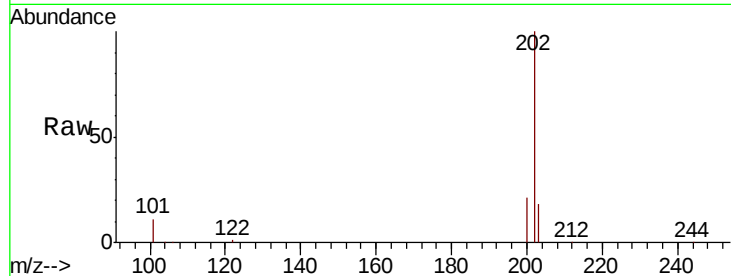




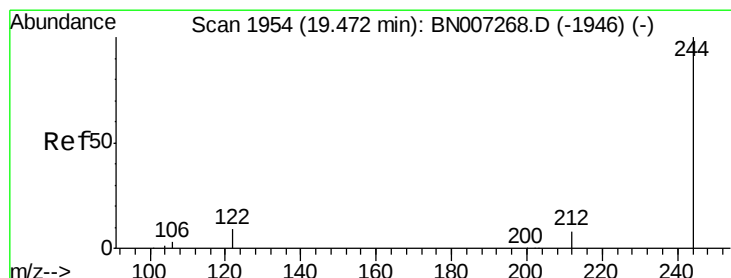
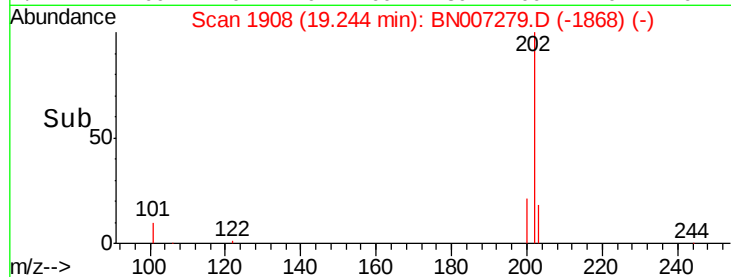
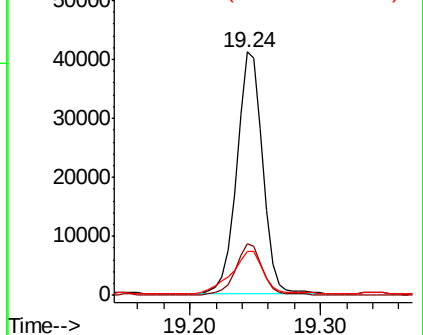
#28
Pvrene
Concen: 0.518 ng
RT: 19.24 min Scan# 1908
Delta R.T. 0.00 min
Lab File: BN007279.D
Acq: 21 Aug 2019 04:50

Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 57345
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 22.0 13.9 20.9#

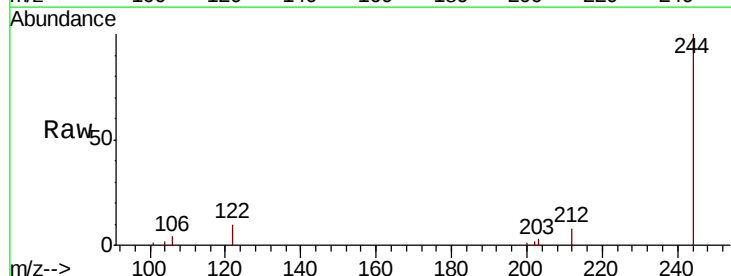


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

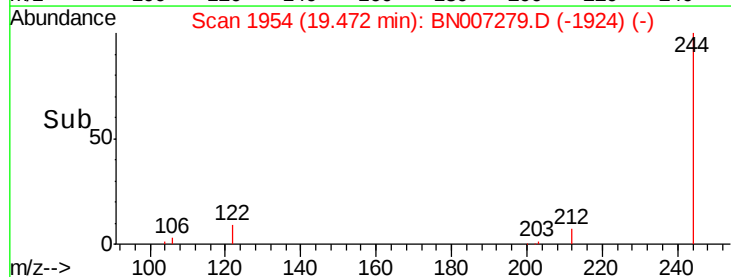
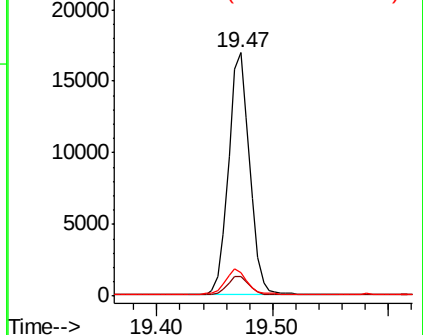


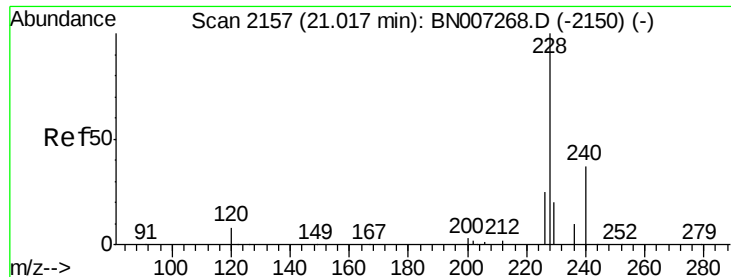
#29
Terphenyl-d14
Concen: 0.289 ng
RT: 19.47 min Scan# 1954
Delta R.T. 0.00 min
Lab File: BN007279.D
Acq: 21 Aug 2019 04:50

Tgt Ion:244 Resp: 21395
Ion Ratio Lower Upper
244 100
212 8.0 6.5 9.7
122 9.7 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: 0.226 ng

RT: 21.01 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

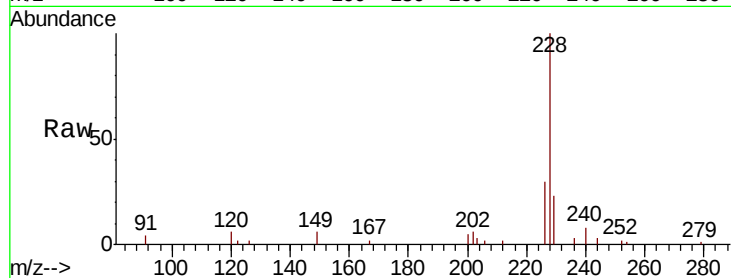
Tot Ion:228 Resp: 24869

Ion Ratio Lower Upper

228 100

226 30.2 20.6 30.8

229 22.8 16.9 25.3

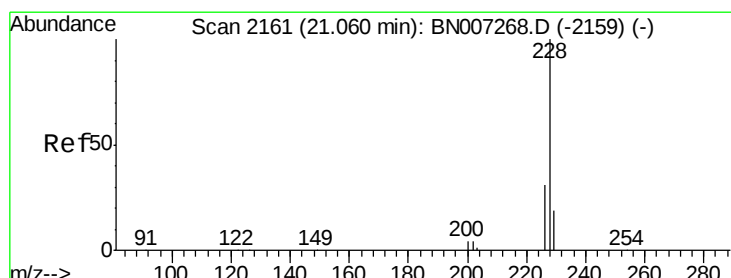
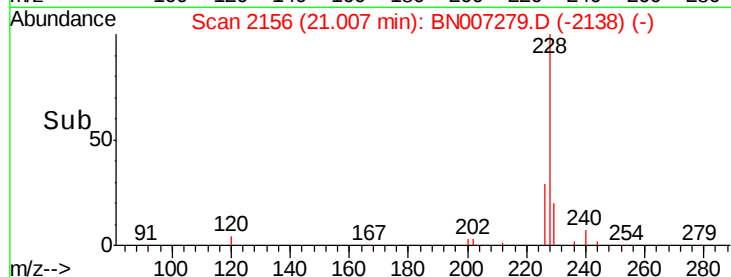
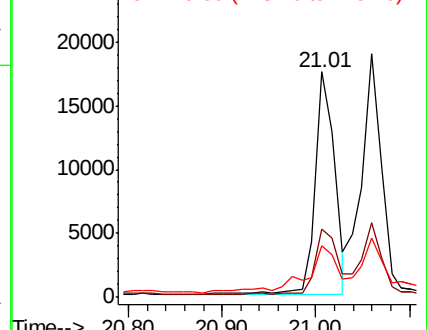


Abundance

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: 0.205 ng

RT: 21.01 min Scan# 2156

Delta R.T. -0.05 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

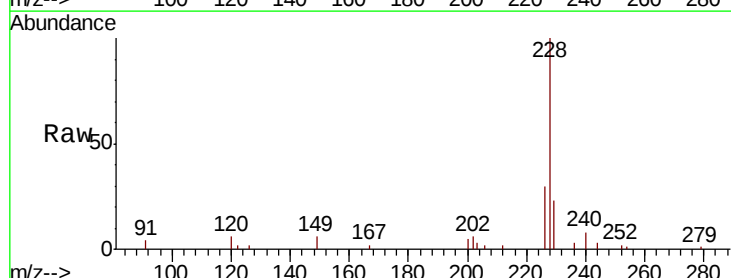
Tgt Ion:228 Resp: 23014

Ion Ratio Lower Upper

228 100

226 30.2 24.6 36.8

229 22.8 15.6 23.4

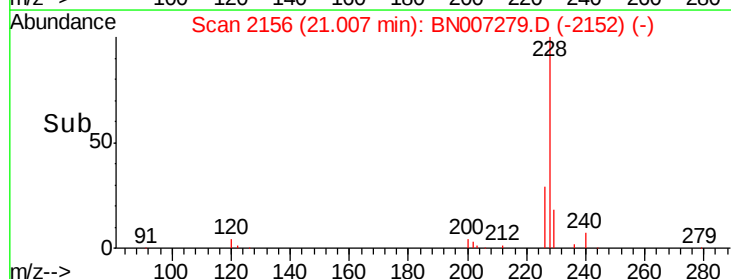
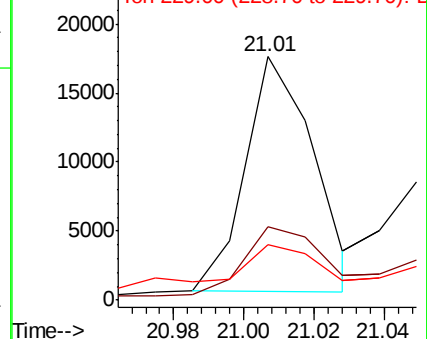


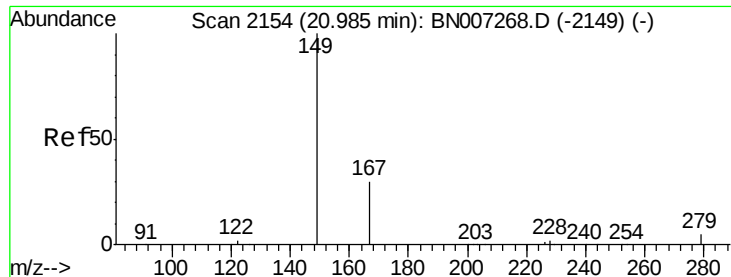
Abundance

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





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.329 ng

RT: 20.97 min Scan# 2153

Delta R.T. -0.01 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampled :

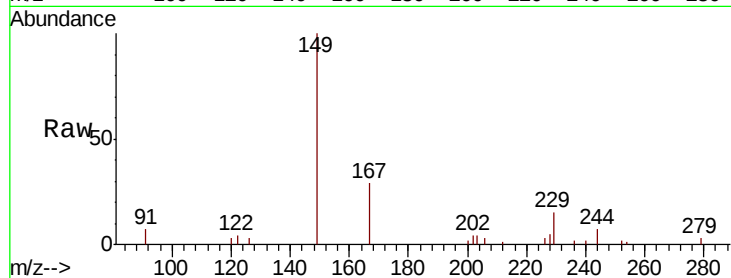
Tot Ion:149 Resp: 14494

Ion Ratio Lower Upper

149 100

167 31.2 23.8 35.6

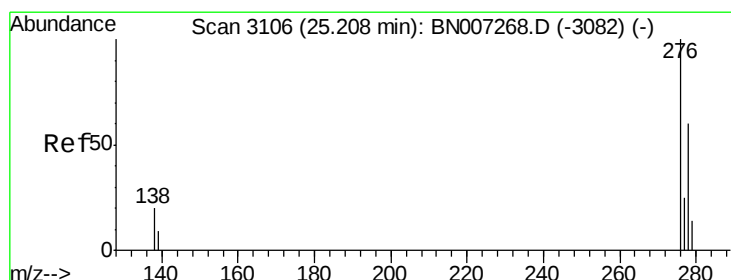
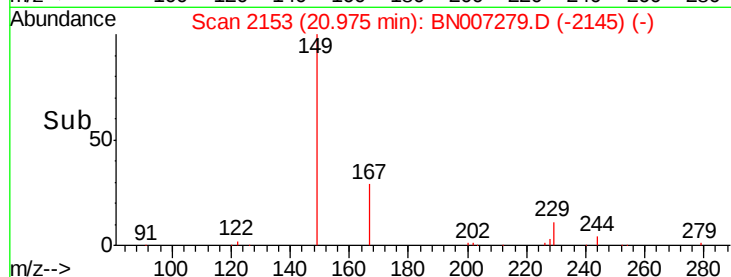
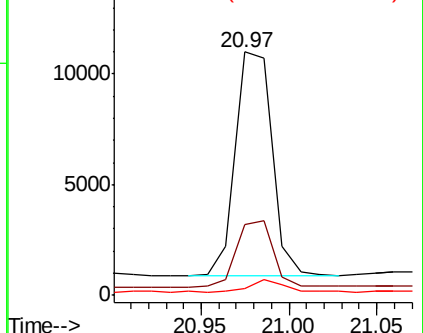
279 4.7 3.8 5.8



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: 0.078 ng

RT: 25.20 min Scan# 3103

Delta R.T. -0.01 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

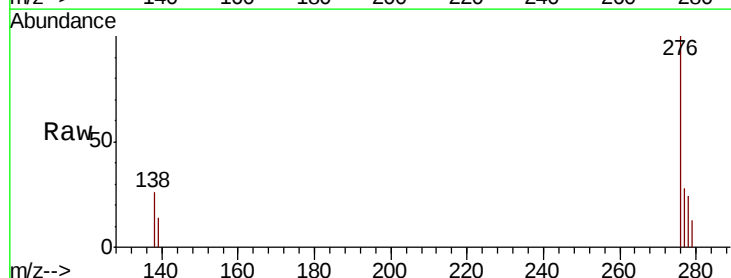
Tgt Ion:276 Resp: 10565

Ion Ratio Lower Upper

276 100

138 20.5 17.1 25.7

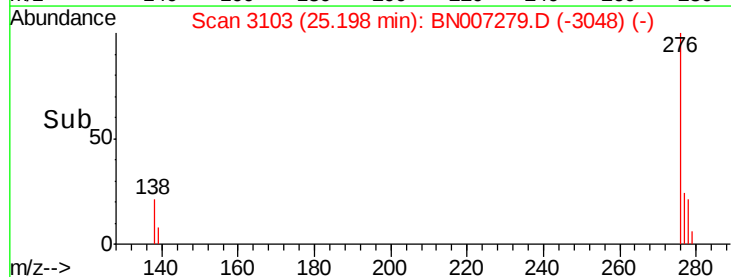
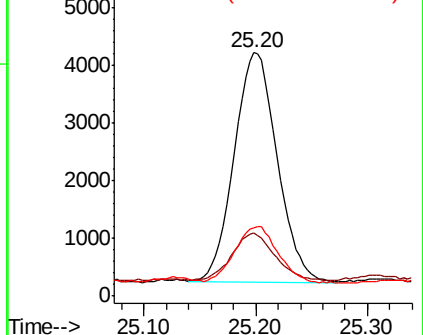
277 24.2 20.1 30.1

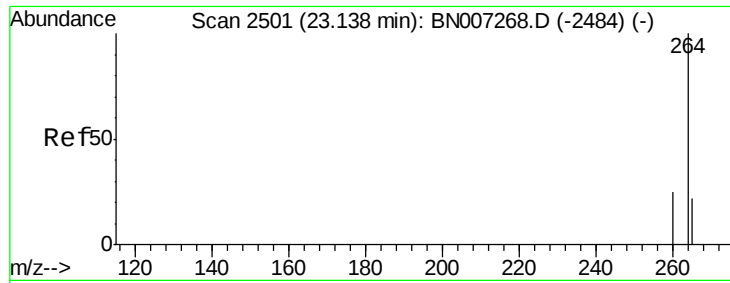


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

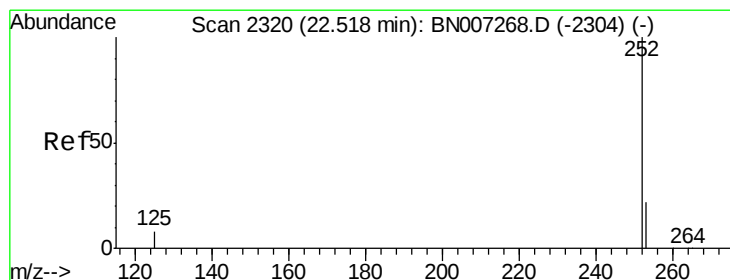
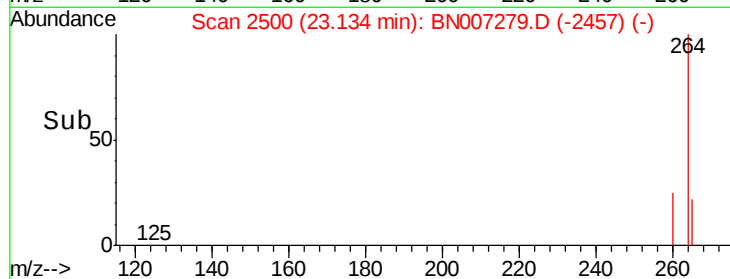
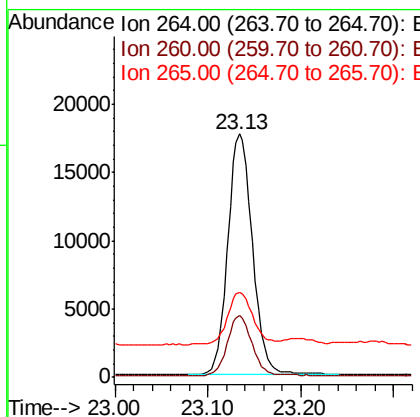
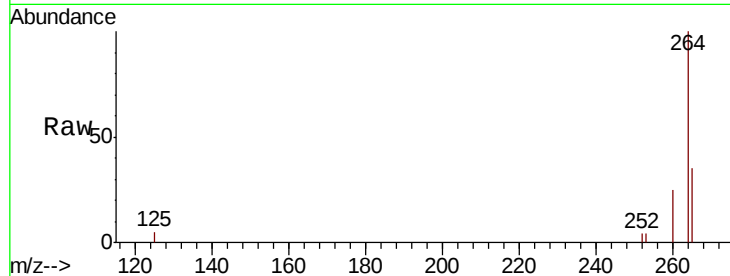




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.13 min Scan# 2500
 Delta R.T. -0.00 min
 Lab File: BN007279.D
 Acq: 21 Aug 2019 04:50

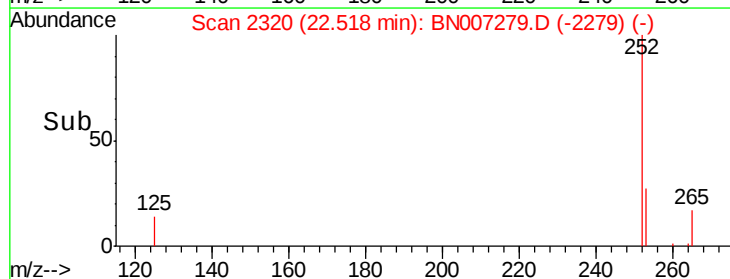
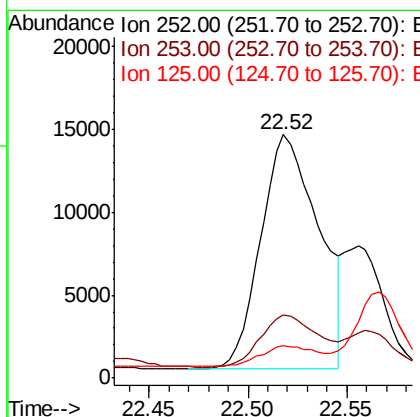
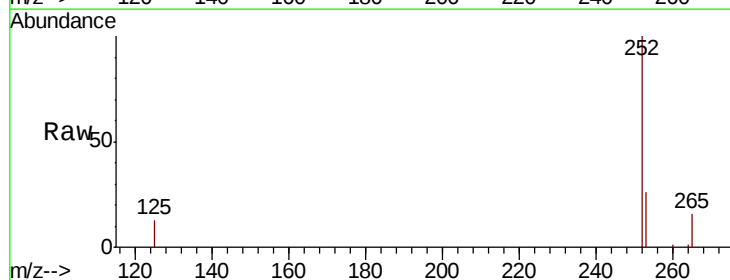
Instrument :
 BNA_N
 ClientSampleId :

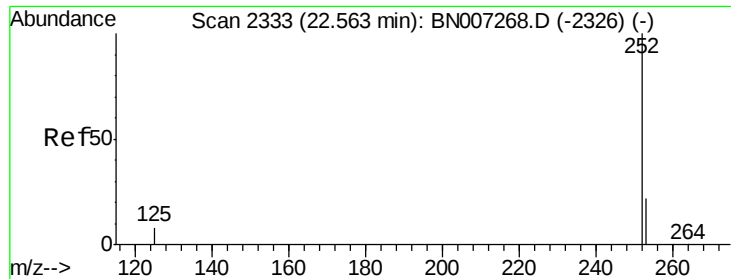
Tot Ion:264 Resp: 32947
 Ion Ratio Lower Upper
 264 100
 260 25.4 20.1 30.1
 265 35.0 29.0 43.6



#35
 Benzo(b)fluoranthene
 Concen: 0.235 ng
 RT: 22.52 min Scan# 2320
 Delta R.T. 0.00 min
 Lab File: BN007279.D
 Acq: 21 Aug 2019 04:50

Tgt Ion:252 Resp: 28845
 Ion Ratio Lower Upper
 252 100
 253 25.8 18.5 27.7
 125 13.2 7.8 11.6#





#36

Benzo(k)fluoranthene

Concen: 0.240 ng

RT: 22.52 min Scan# 2320

Delta R.T. -0.04 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

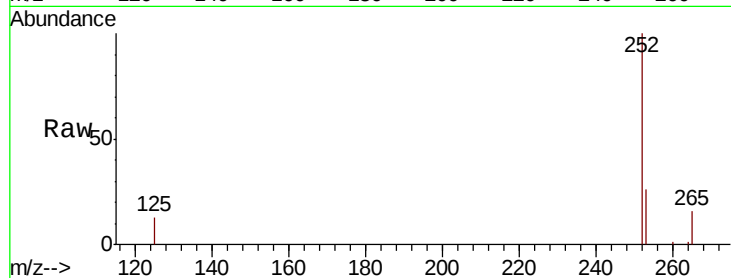
Tot Ion:252 Resp: 28845

Ion Ratio Lower Upper

252 100

253 25.8 18.4 27.6

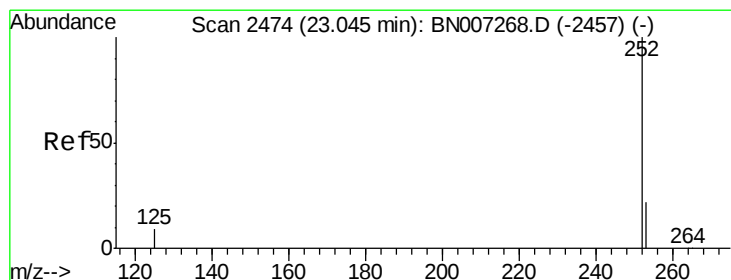
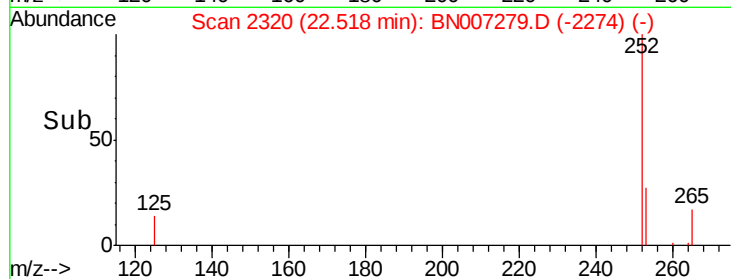
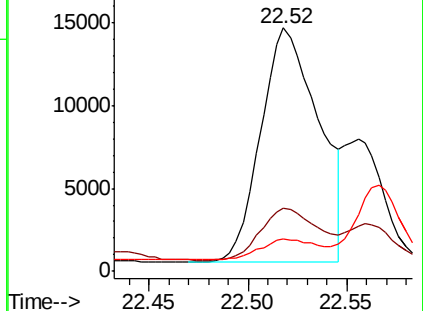
125 13.2 8.0 12.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(a)pyrene

Concen: 0.151 ng

RT: 23.04 min Scan# 2473

Delta R.T. -0.00 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

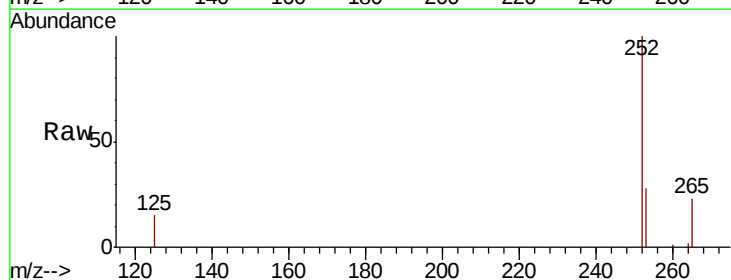
Tgt Ion:252 Resp: 16719

Ion Ratio Lower Upper

252 100

253 27.5 18.7 28.1

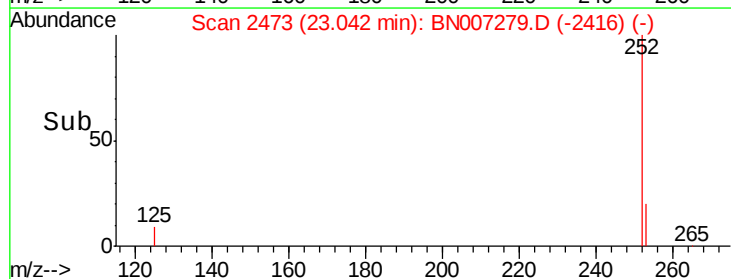
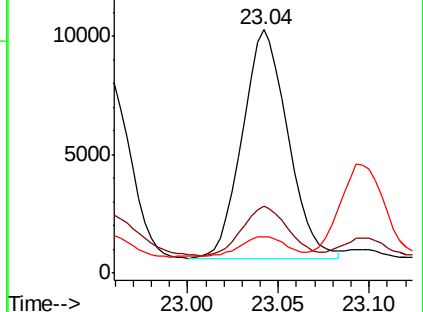
125 15.0 8.7 13.1#

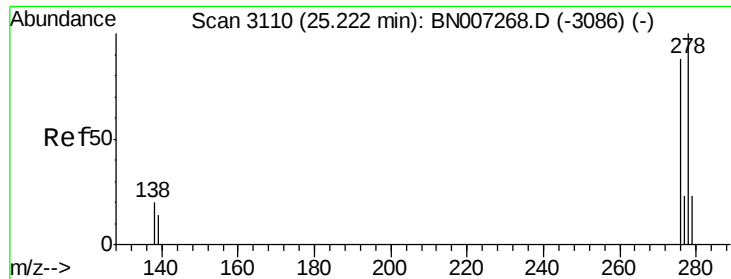


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.026 ng

RT: 25.21 min Scan# 3107

Delta R.T. -0.01 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

Instrument :

BNA_N

ClientSampleId :

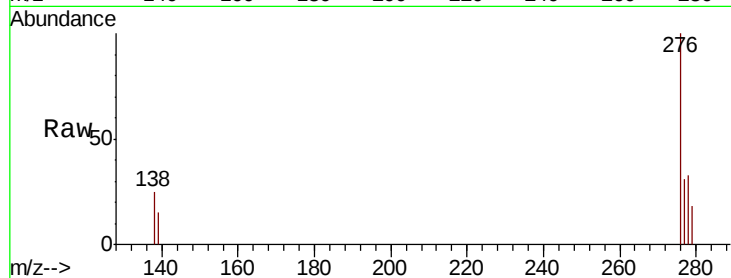
Tot Ion:278 Resp: 3048

Ion Ratio Lower Upper

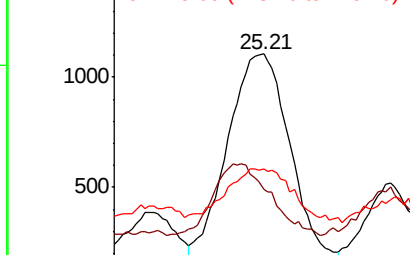
278 100

139 44.6 11.8 17.8#

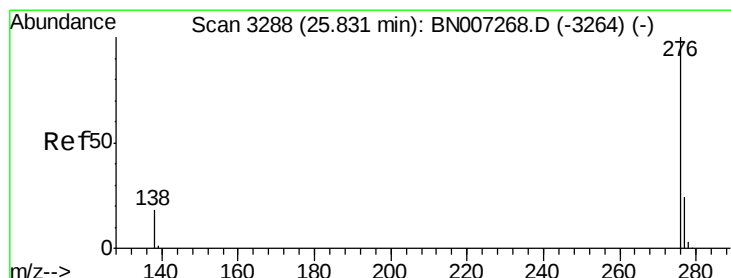
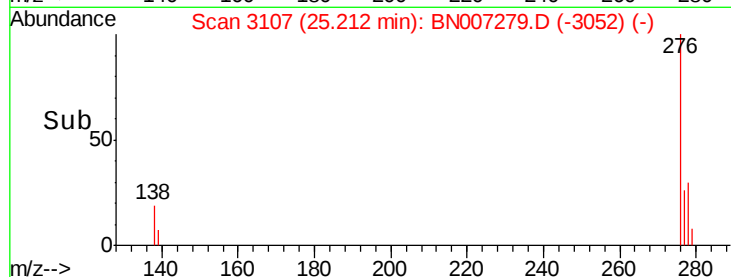
279 52.8 19.8 29.6#



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



Time--> 25.10 25.20 25.30



#39

Benzo(g,h,i)perylene

Concen: 0.086 ng

RT: 25.82 min Scan# 3286

Delta R.T. -0.01 min

Lab File: BN007279.D

Acq: 21 Aug 2019 04:50

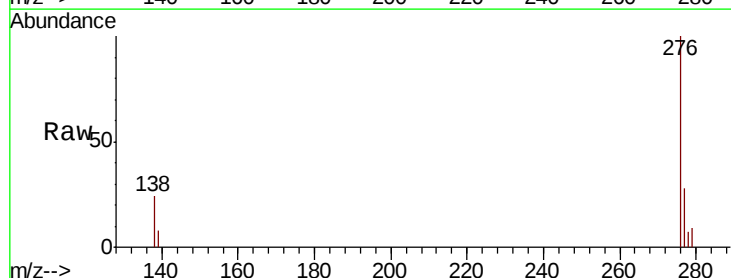
Tgt Ion:276 Resp: 10101

Ion Ratio Lower Upper

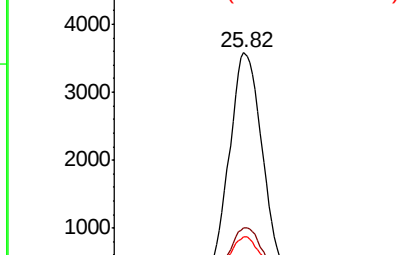
276 100

277 27.9 19.5 29.3

138 24.3 15.3 22.9#



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



Time--> 25.70 25.80 25.90 26.00

