

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007069.D
 Acq On : 11 Aug 2019 03:48
 Operator : HP/JU
 Sample : K4239-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:40:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	6891	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	25763	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	14863	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	36394	0.40	ng	0.00
26) Chrysene-d12	21.03	240	37764	0.40	ng	-0.02
32) Perylene-d12	23.15	264	41428	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	7384	0.45	ng	0.00
4) Phenol-d6	6.61	99	9994	0.49	ng	0.00
7) Nitrobenzene-d5	8.56	82	7680	0.37	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	17865	0.37	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2273	0.28	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	6690	0.31	ng	0.00
24) Fluoranthene-d10	18.87	212	43955	0.34	ng	0.00
28) Terphenyl-d14	19.49	244	34101	0.33	ng	-0.01

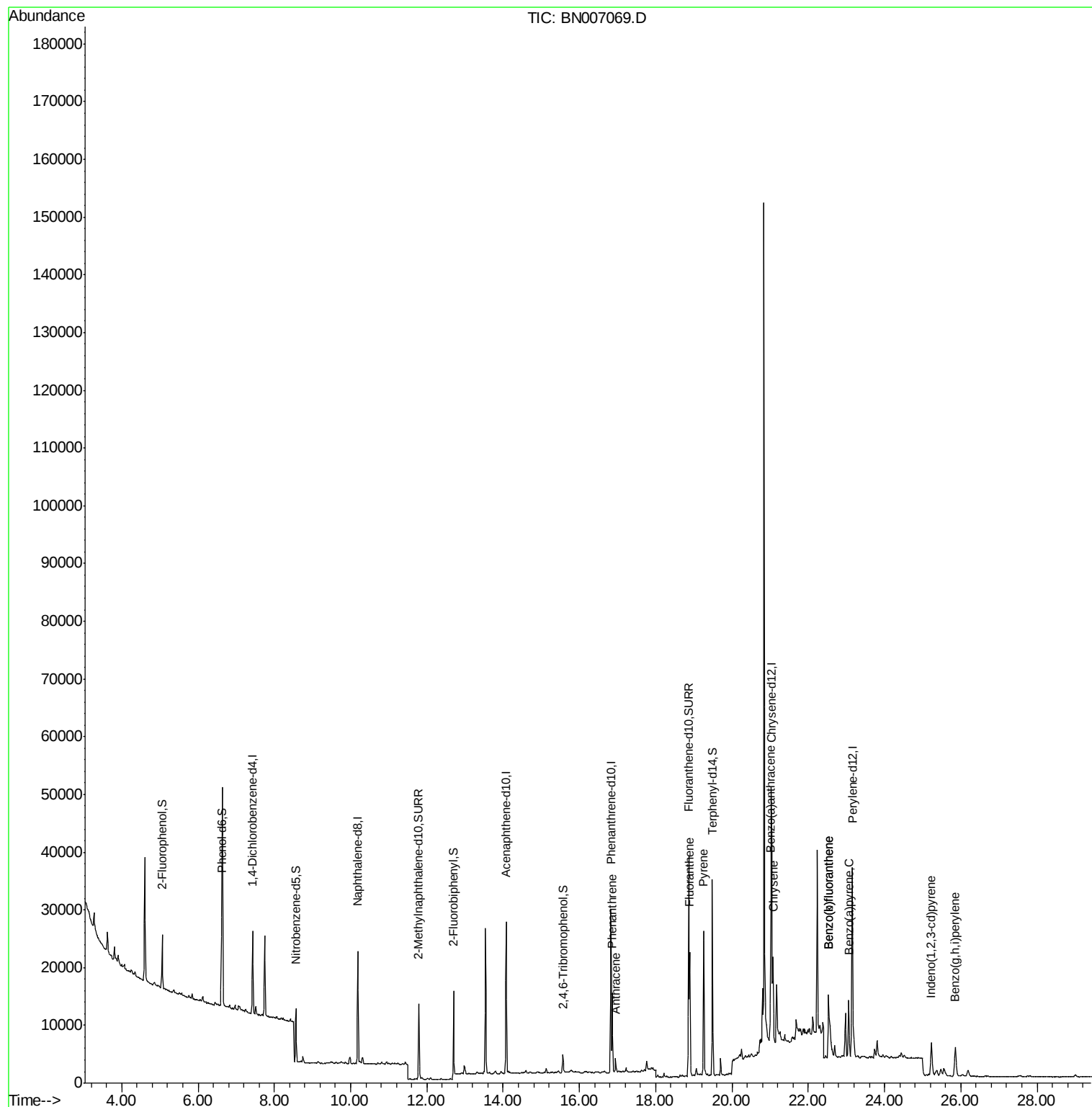
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Phenanthrene	16.87	178	13232	0.121	ng	99
23) Anthracene	16.95	178	2399	0.024	ng	# 94
25) Fluoranthene	18.90	202	19435	0.139	ng	100
27) Pyrene	19.26	202	23225	0.175	ng	97
29) Benzo(a)anthracene	21.02	228	14190	0.103	ng	93
30) Chrysene	21.08	228	14019	0.104	ng	96
31) Indeno(1,2,3-cd)pyrene	25.23	276	9350	0.063	ng	99
33) Benzo(b)fluoranthene	22.53	252	17430	0.123	ng	# 88
34) Benzo(k)fluoranthene	22.53	252	17430	0.124	ng	# 87
35) Benzo(a)pyrene	23.06	252	13456	0.104	ng	# 87
37) Benzo(a,h,i)perylene	25.86	276	10580	0.080	ng	# 90

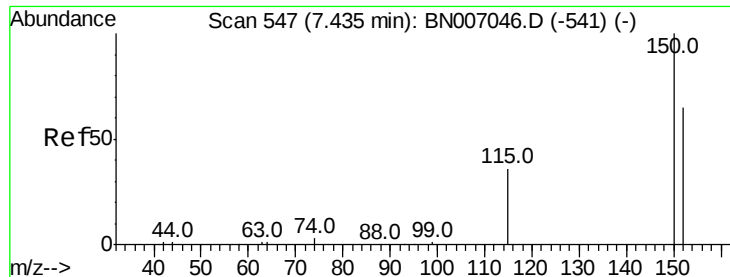
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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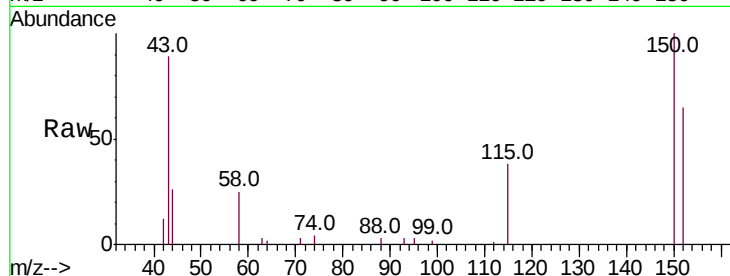


#1

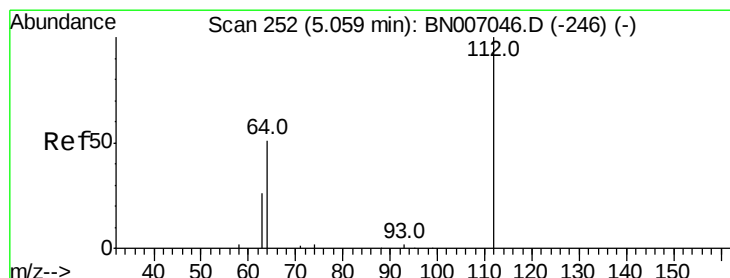
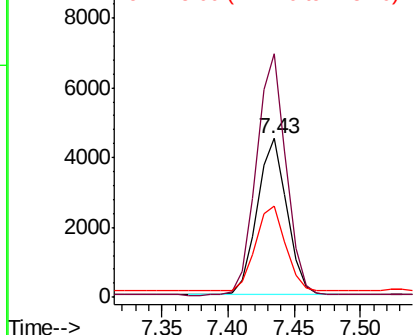
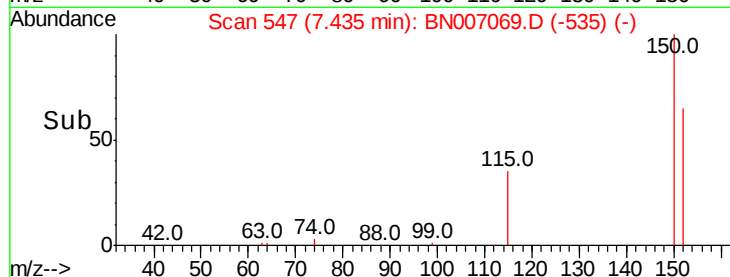
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007069.D
Acq: 11 Aug 2019 03:48

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 6891
Ion Ratio Lower Upper
152 100
150 153.5 121.7 182.5
115 57.8 46.2 69.4



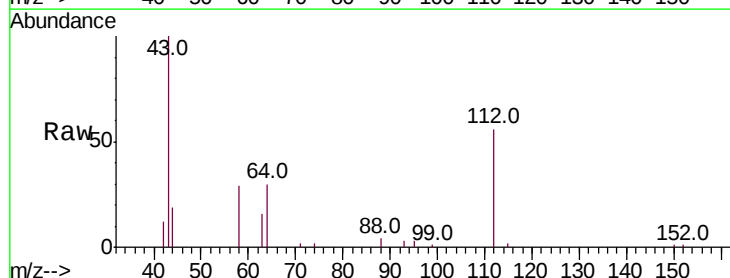
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



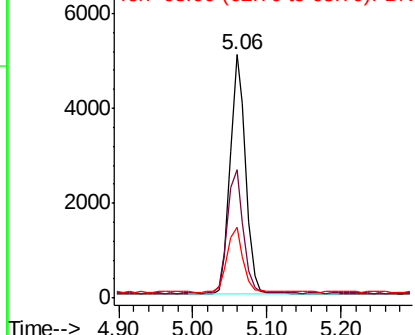
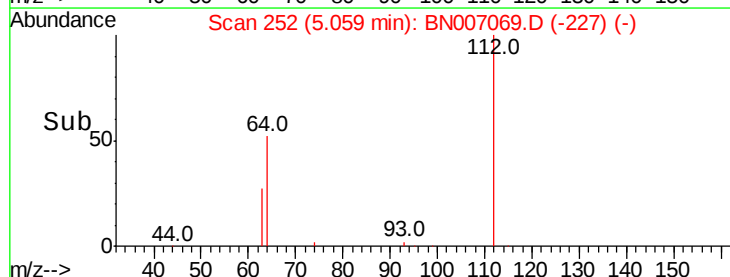
#3

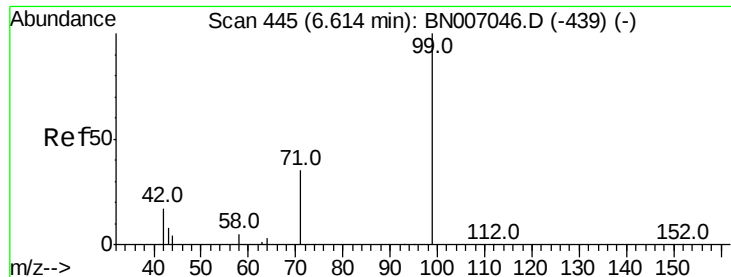
2-Fluorophenol
Concen: 0.446 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007069.D
Acq: 11 Aug 2019 03:48

Tgt Ion:112 Resp: 7384
Ion Ratio Lower Upper
112 100
64 53.0 42.6 63.8
63 27.5 22.2 33.2



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





#4

Phenol-d6

Concen: 0.487 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :

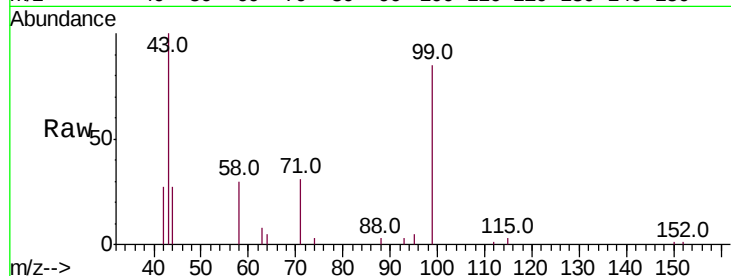
Tot Ion: 99 Resp: 9994

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

71 34.1 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)

6.61

8000

6000

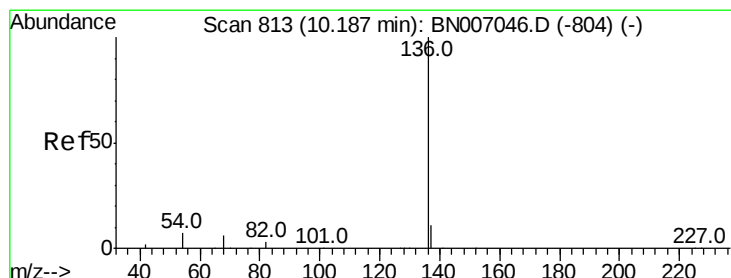
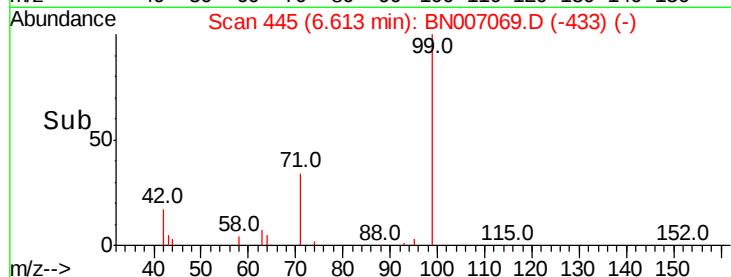
4000

2000

0

6.50 6.60 6.70

Time-->



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Tgt Ion: 136 Resp: 25763

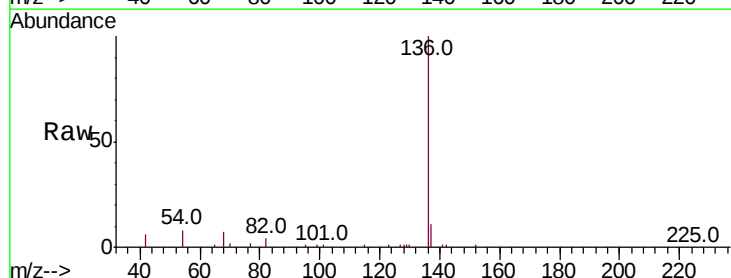
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 7.5 6.6 9.8

68 6.8 6.0 9.0



Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)

10.19

20000

15000

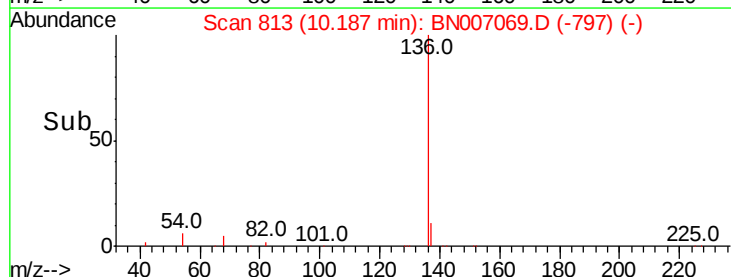
10000

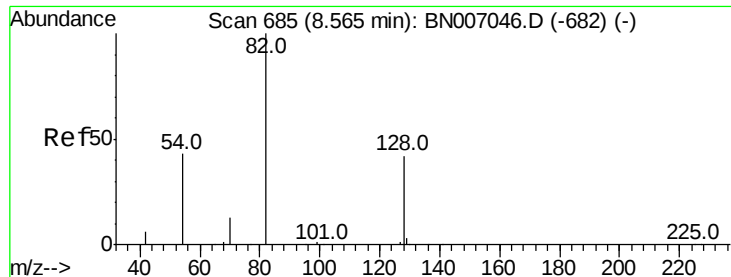
5000

0

10.10 10.20

Time-->





#7

Nitrobenzene-d5

Concen: 0.370 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :

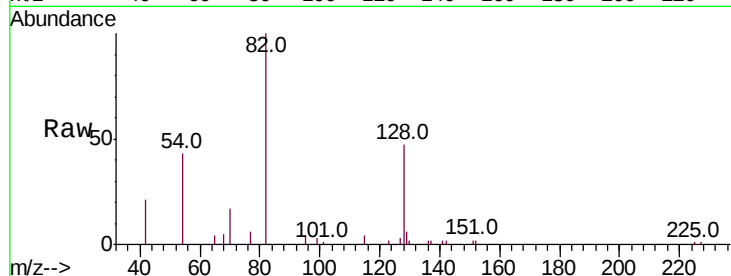
Tot Ion: 82 Resp: 7680

Ion Ratio Lower Upper

82 100

128 46.9 34.6 51.8

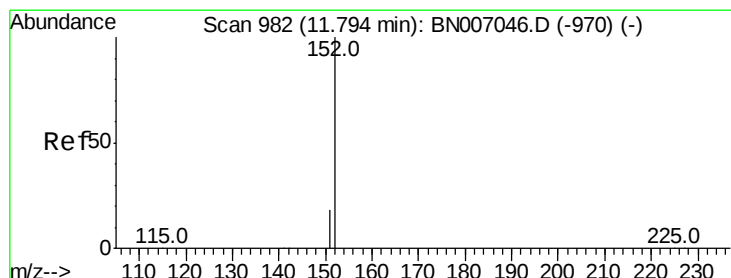
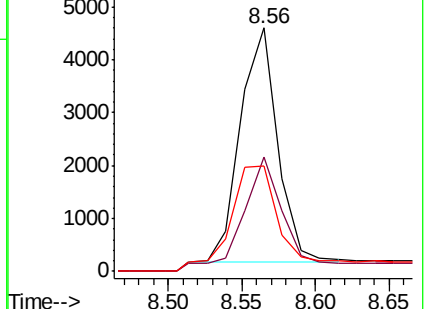
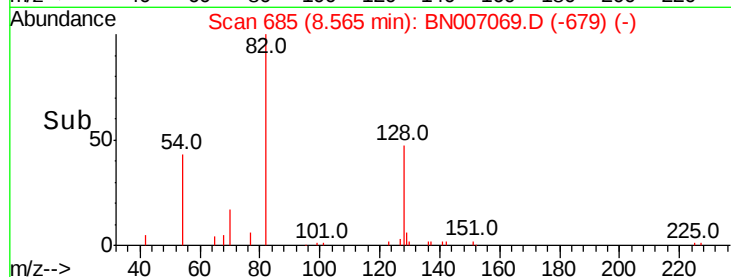
54 43.1 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007046.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)



#10

2-Methylnaphthalene-d10

Concen: 0.372 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007069.D

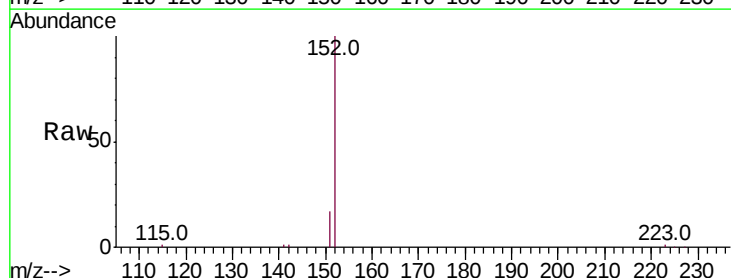
Acq: 11 Aug 2019 03:48

Tgt Ion: 152 Resp: 17865

Ion Ratio Lower Upper

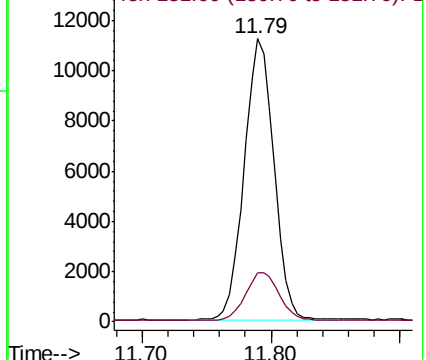
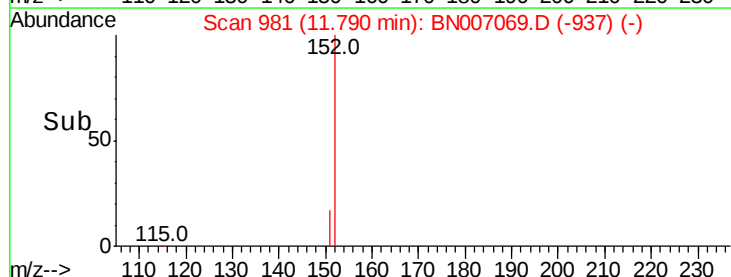
152 100

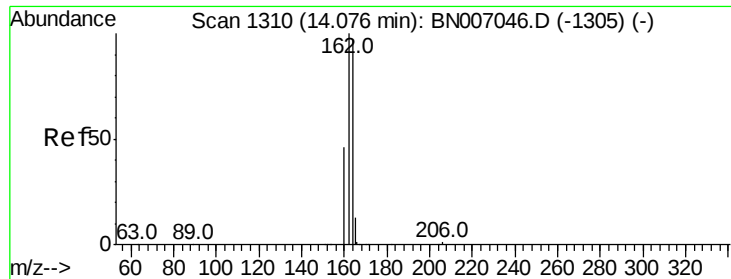
151 19.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007046.D (-970) (-)

Ion 151.00 (150.70 to 151.70): BN007046.D (-970) (-)





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampled :

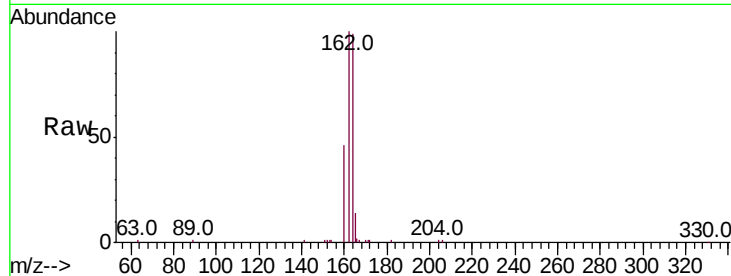
Tot Ion:164 Resp: 14863

Ion Ratio Lower Upper

164 100

162 101.3 82.2 123.4

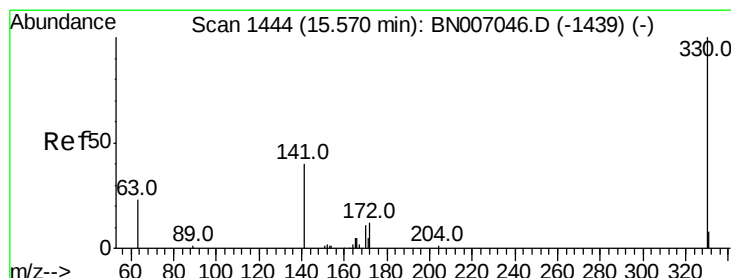
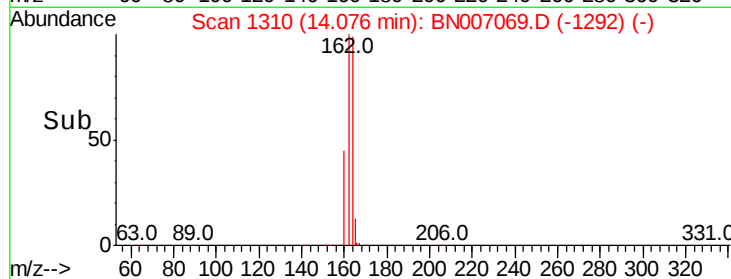
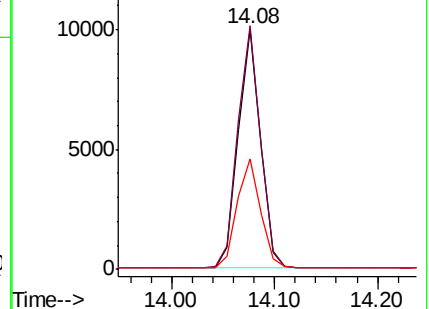
160 46.2 38.3 57.5



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



#13

2,4,6-Tribromophenol

Concen: 0.284 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

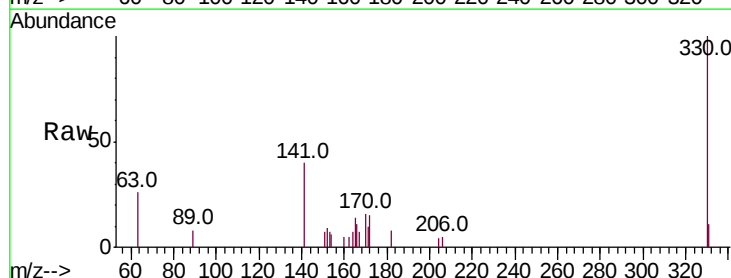
Tgt Ion:330 Resp: 2273

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

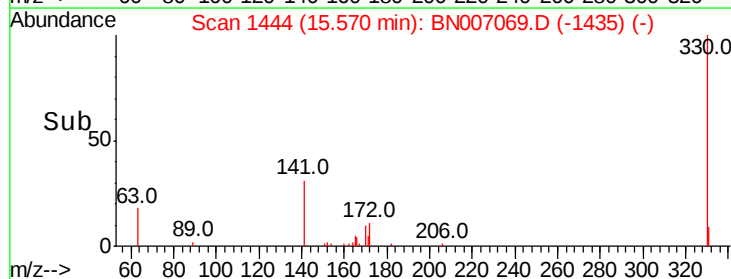
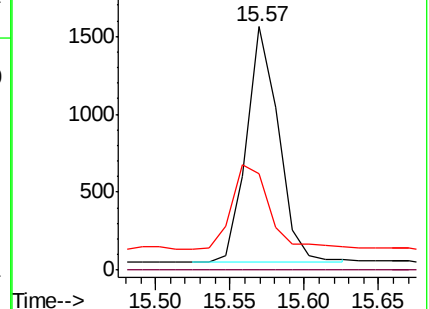
141 42.8 33.6 50.4

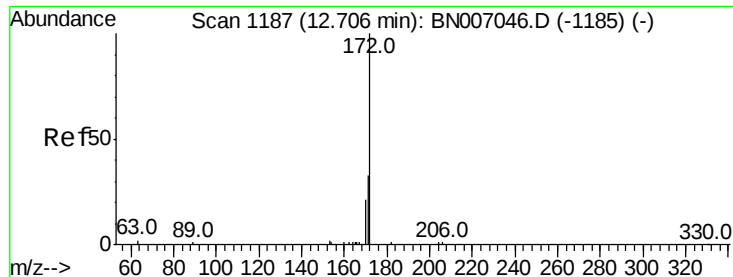


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

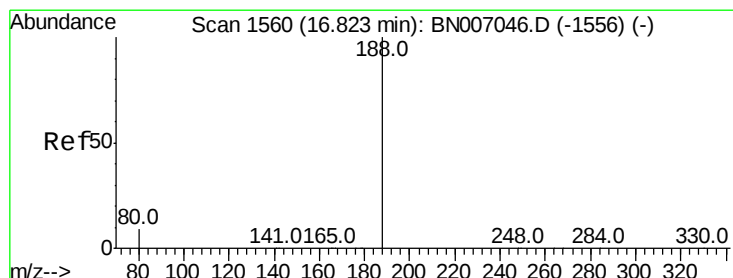
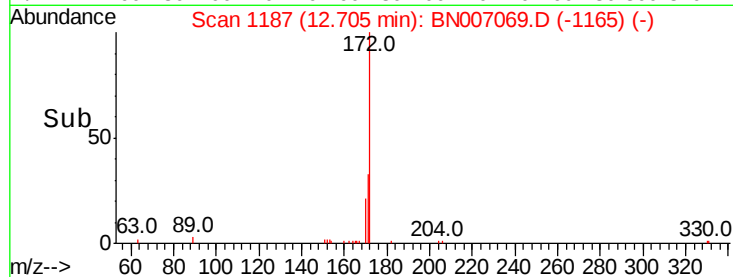
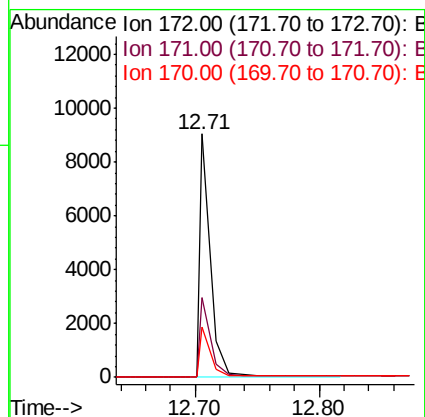
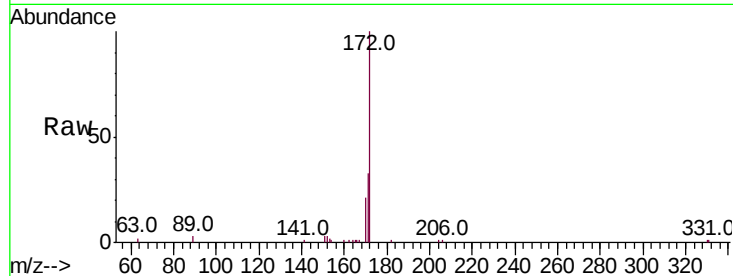




#14
2-Fluorobiphenyl
Concen: 0.310 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007069.D
Acq: 11 Aug 2019 03:48

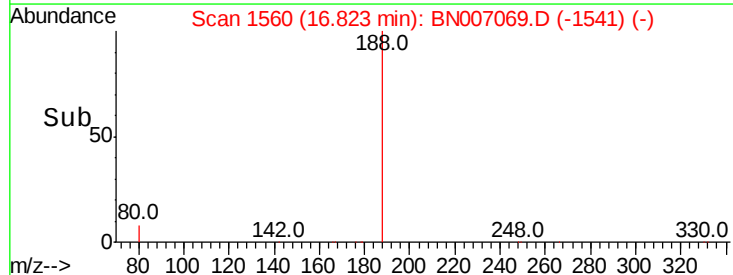
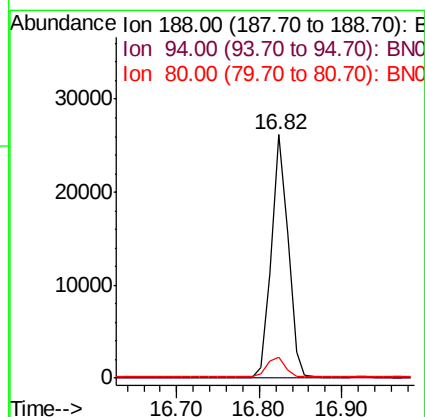
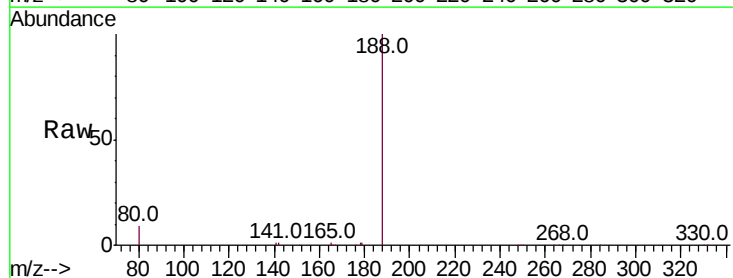
Instrument :
BNA_N
ClientSampleId :

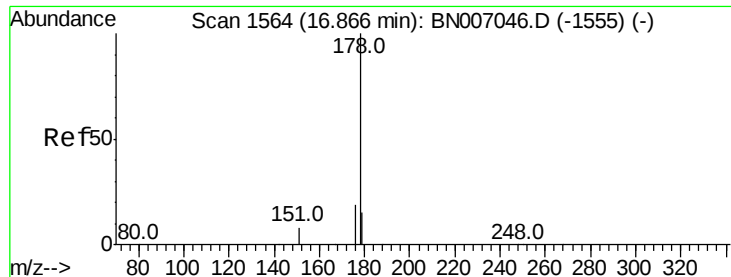
Tot Ion:172 Resp: 6690
Ion Ratio Lower Upper
172 100
171 33.0 26.3 39.5
170 20.7 17.0 25.4



#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007069.D
Acq: 11 Aug 2019 03:48

Tgt Ion:188 Resp: 36394
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 7.8 11.6





#22

Phenanthrene

Concen: 0.121 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :

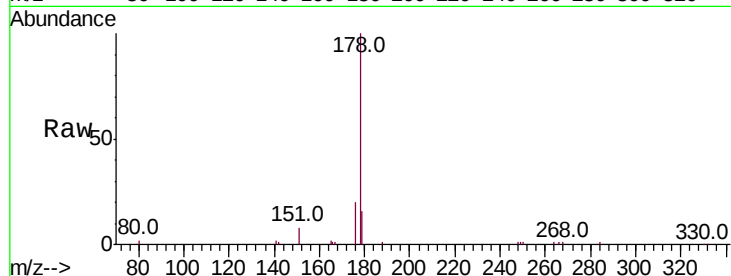
Tot Ion:178 Resp: 13232

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

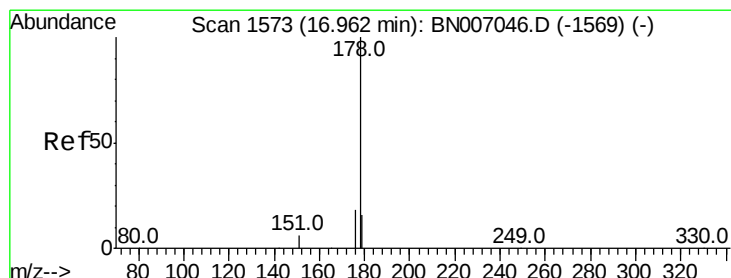
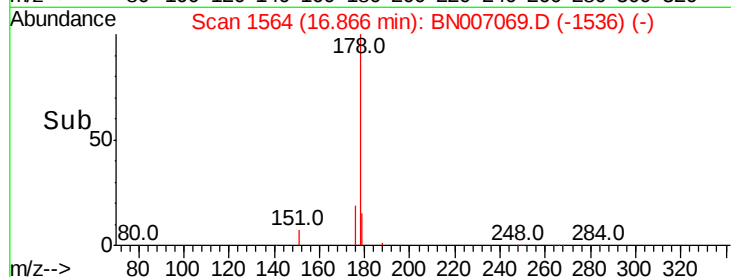
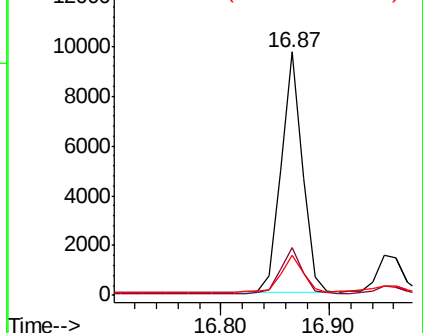
179 15.9 12.3 18.5



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



#23

Anthracene

Concen: 0.024 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

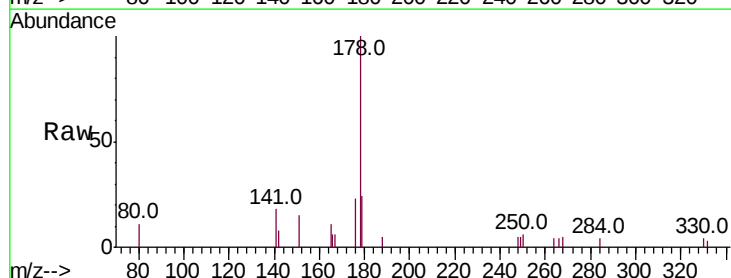
Tgt Ion:178 Resp: 2399

Ion Ratio Lower Upper

178 100

176 20.3 14.6 21.8

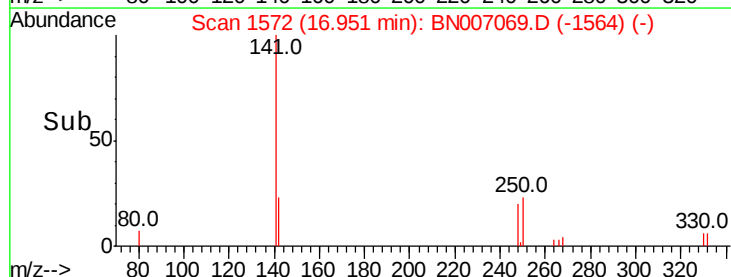
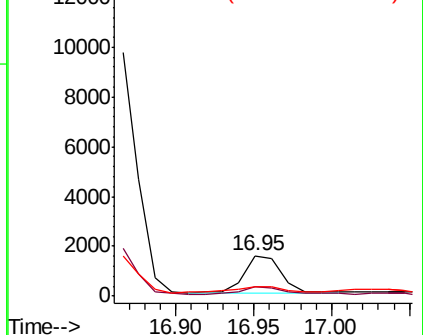
179 19.2 12.5 18.7#

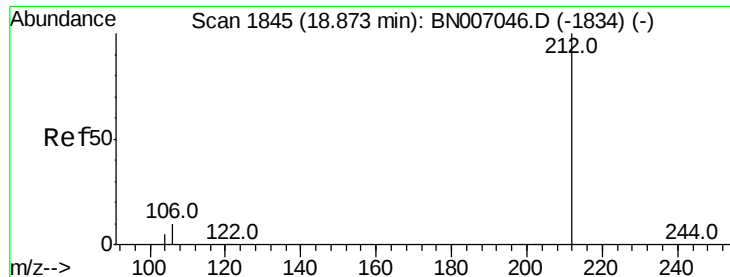


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.341 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :

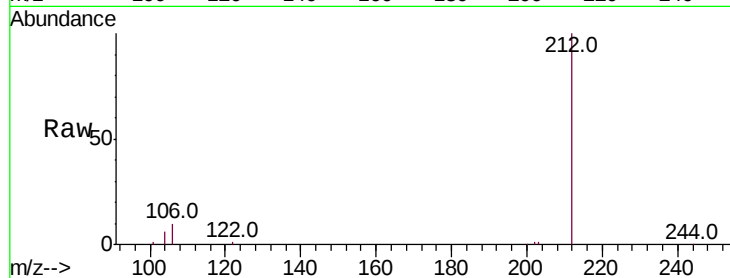
Tot Ion:212 Resp: 43955

Ion Ratio Lower Upper

212 100

106 10.1 8.2 12.2

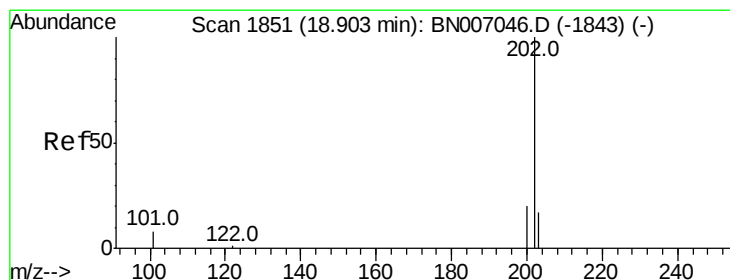
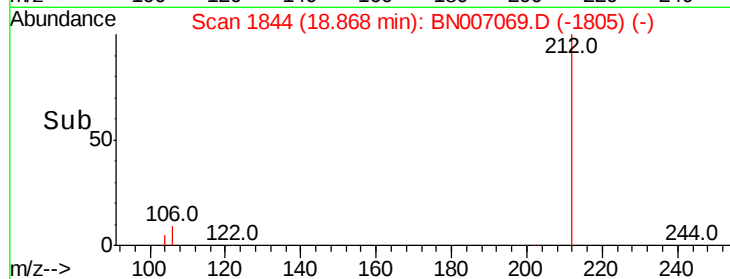
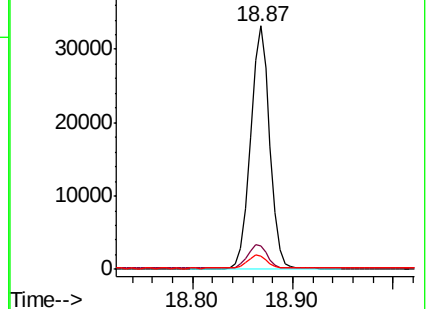
104 5.6 4.5 6.7



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



#25

Fluoranthene

Concen: 0.139 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

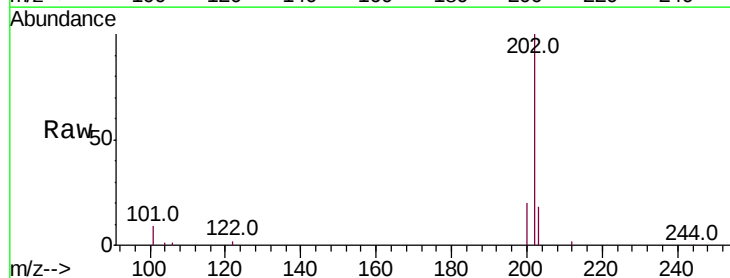
Tgt Ion:202 Resp: 19435

Ion Ratio Lower Upper

202 100

101 8.6 7.0 10.4

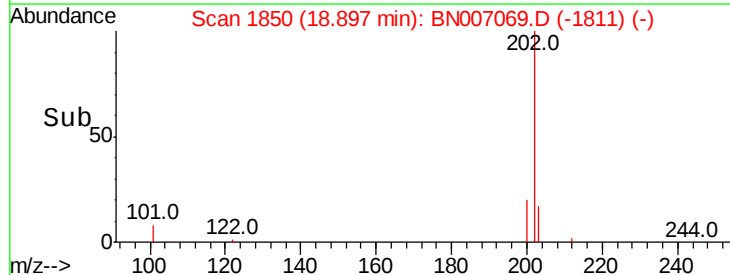
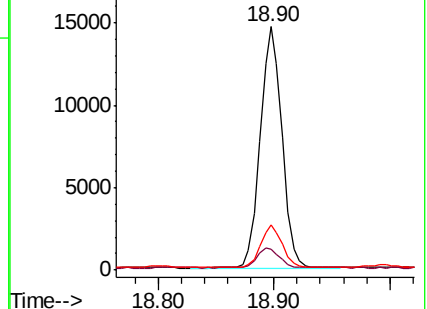
203 17.1 13.8 20.8

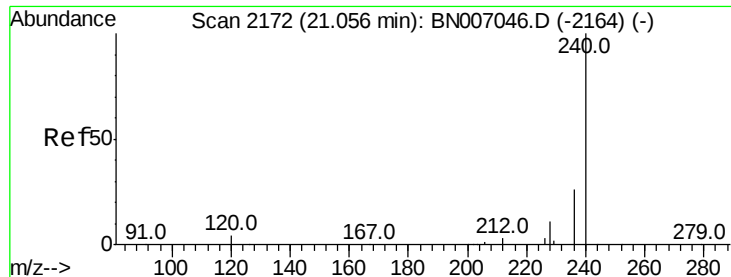


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

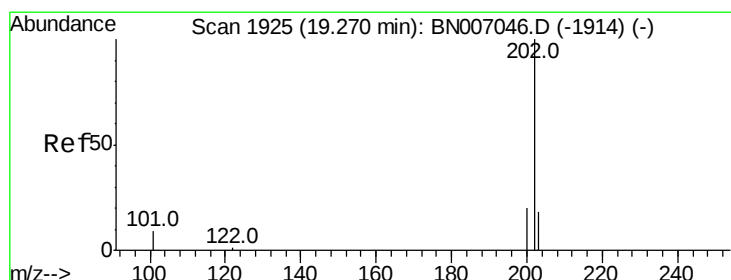
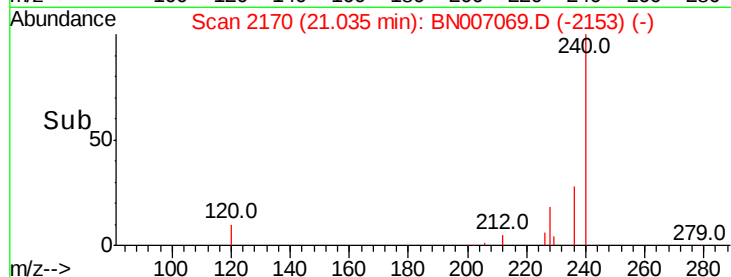
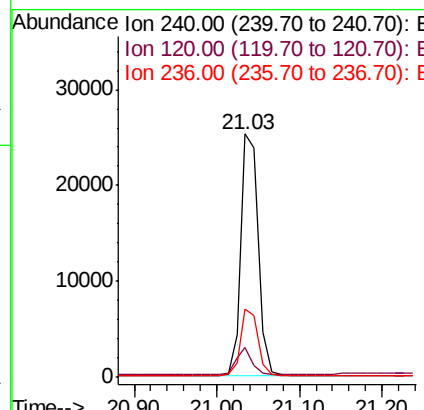
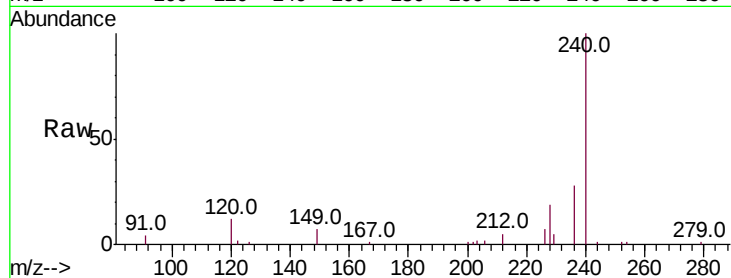




#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007069.D
Acq: 11 Aug 2019 03:48

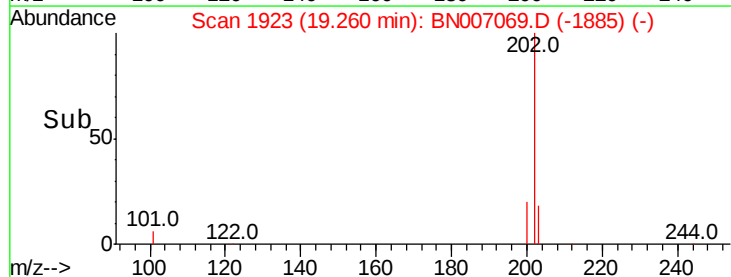
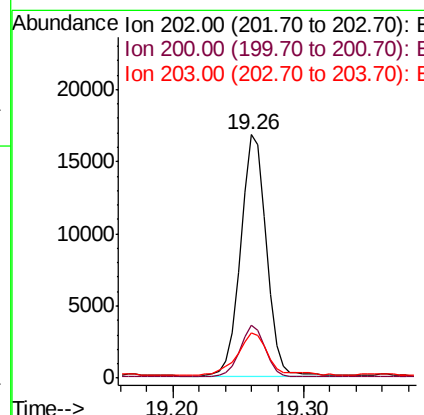
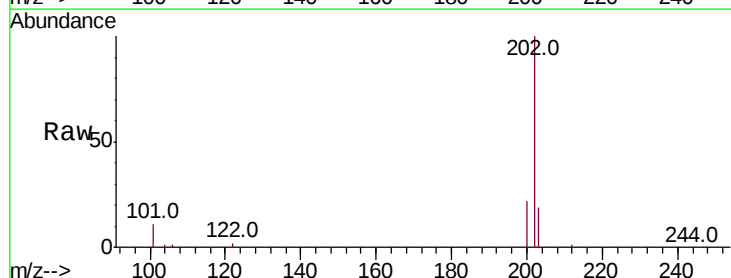
Instrument :
BNA_N
ClientSampleId :

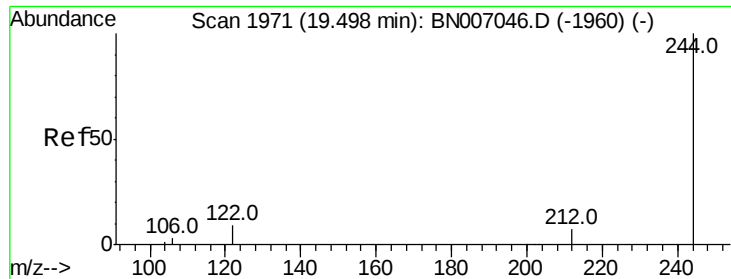
Tot Ion:240 Resp: 37764
Ion Ratio Lower Upper
240 100
120 12.2 4.0 6.0#
236 28.2 21.3 31.9



#27
Pyrene
Concen: 0.175 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007069.D
Acq: 11 Aug 2019 03:48

Tgt Ion:202 Resp: 23225
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 19.9 14.0 21.0





#28

Terphenyl-d14

Concen: 0.331 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :

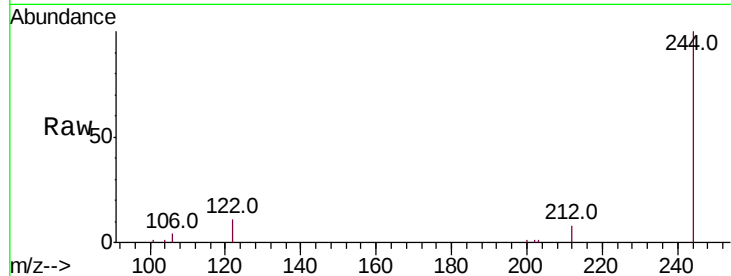
Tot Ion:244 Resp: 34101

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

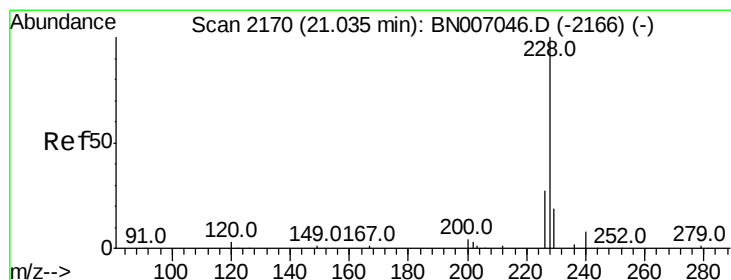
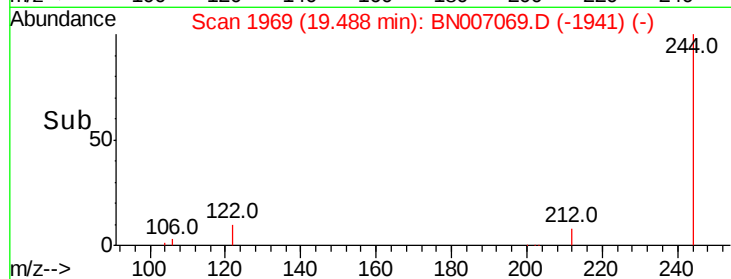
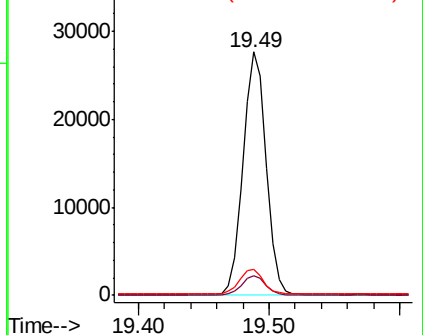
122 10.6 7.4 11.2



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



#29

Benzo(a)anthracene

Concen: 0.103 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

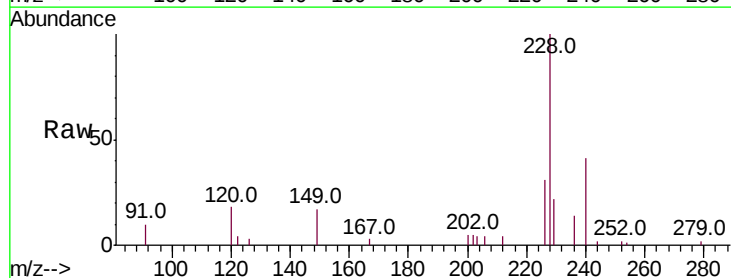
Tgt Ion:228 Resp: 14190

Ion Ratio Lower Upper

228 100

226 30.9 21.8 32.6

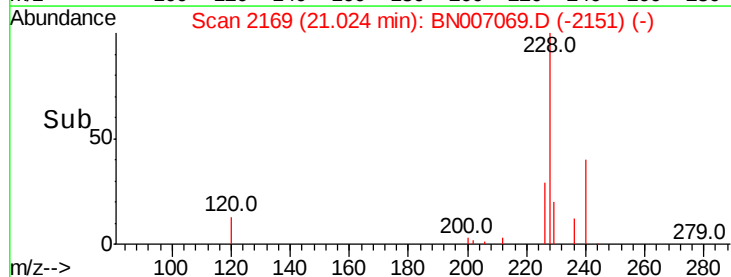
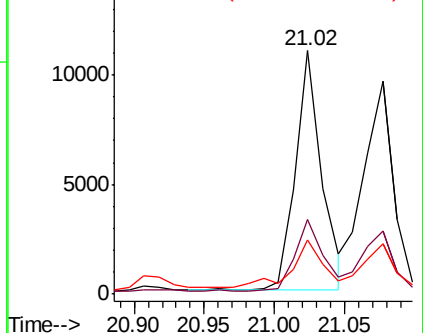
229 22.1 15.6 23.4

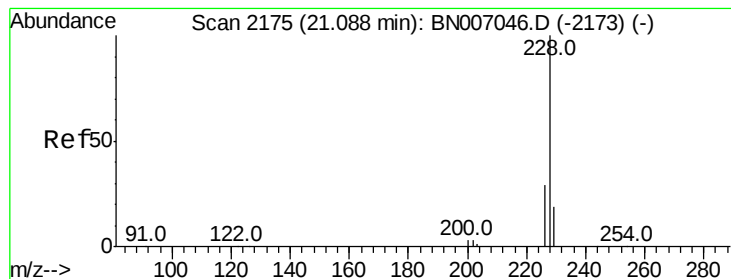


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.104 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampled :

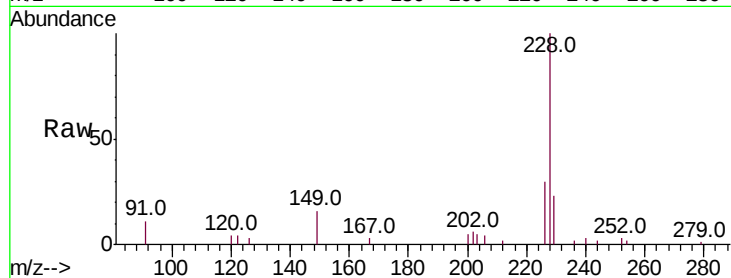
Tot Ion:228 Resp: 14019

Ion Ratio Lower Upper

228 100

226 29.9 23.8 35.6

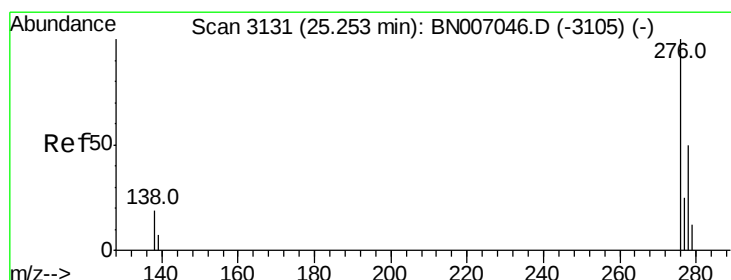
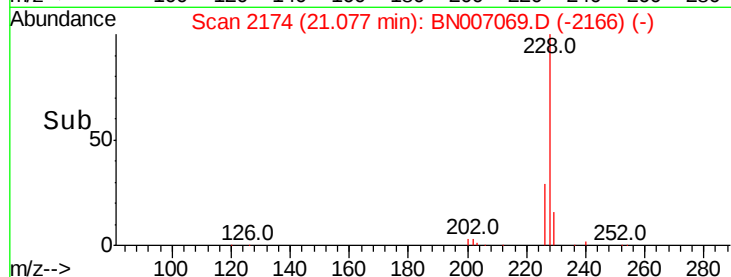
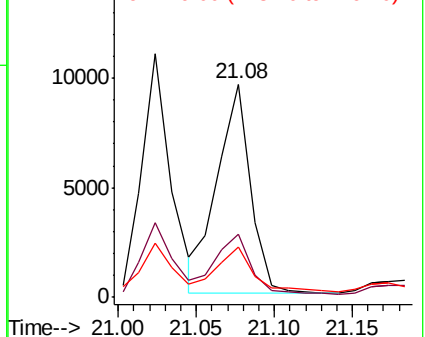
229 23.4 15.7 23.5



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

Indeno(1,2,3-cd)pyrene

Concen: 0.063 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

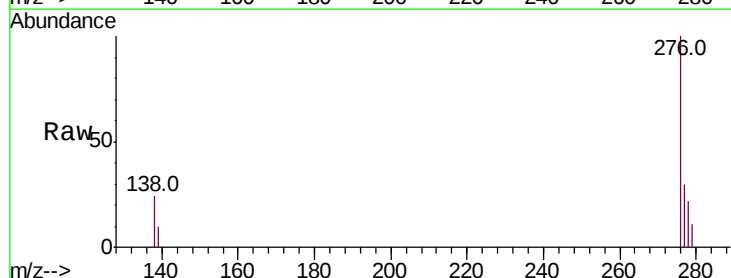
Tgt Ion:276 Resp: 9350

Ion Ratio Lower Upper

276 100

138 19.2 16.0 24.0

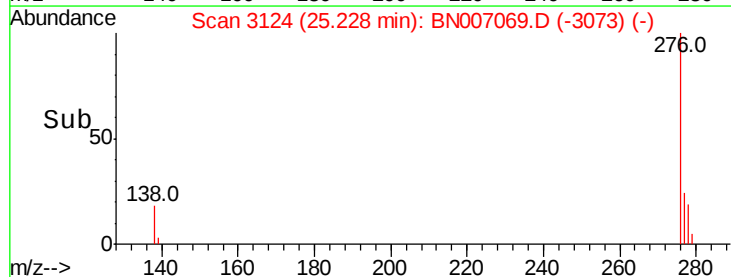
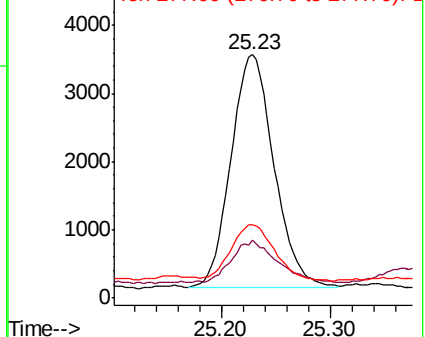
277 24.5 19.9 29.9

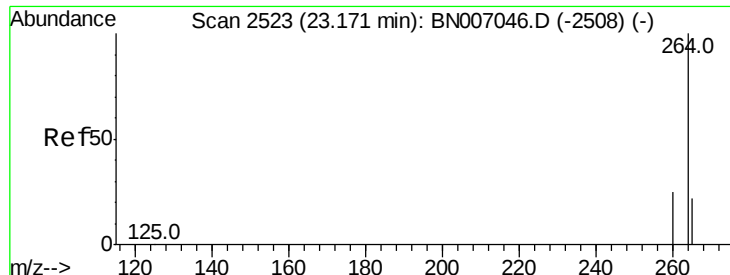


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

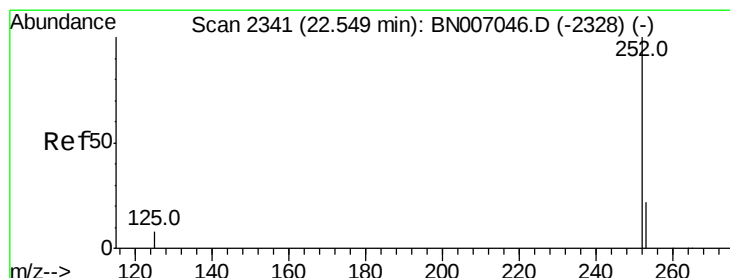
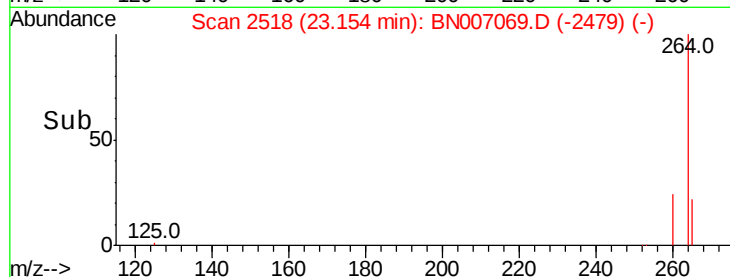
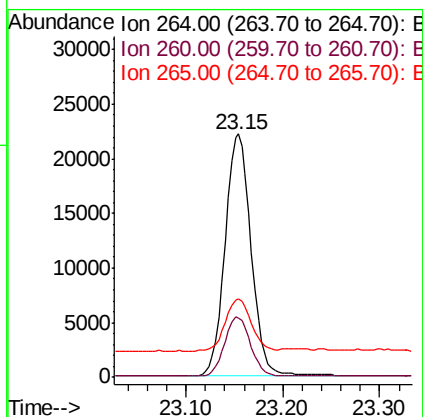
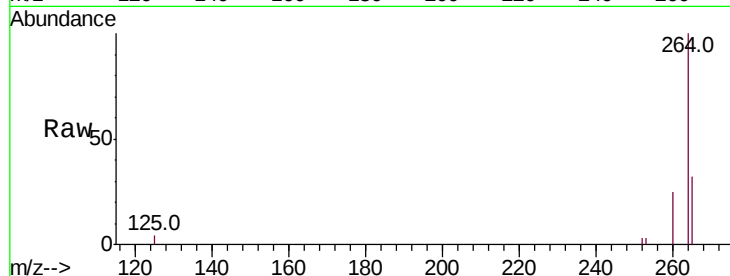




#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007069.D
 Acq: 11 Aug 2019 03:48

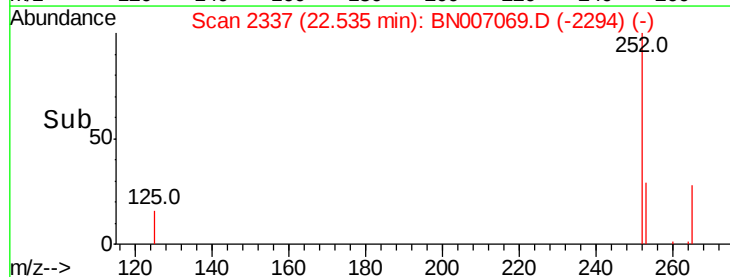
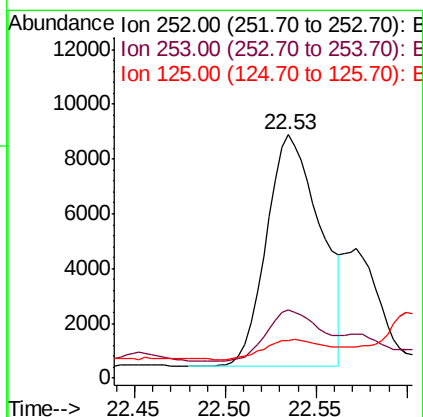
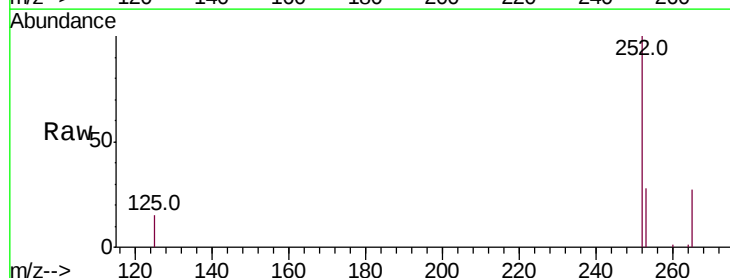
Instrument :
 BNA_N
 ClientSampleId :

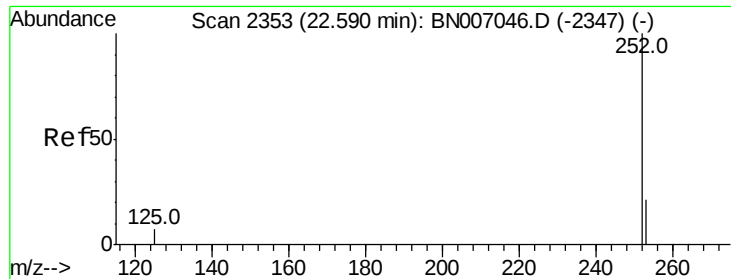
Tot Ion:264 Resp: 41428
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.8 29.8
 265 32.5 26.2 39.4



#33
 Benzo(b)fluoranthene
 Concen: 0.123 ng
 RT: 22.53 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BN007069.D
 Acq: 11 Aug 2019 03:48

Tgt Ion:252 Resp: 17430
 Ion Ratio Lower Upper
 252 100
 253 27.8 18.2 27.2#
 125 15.5 7.4 11.0#





#34

Benzo(k)fluoranthene

Concen: 0.124 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.05 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :

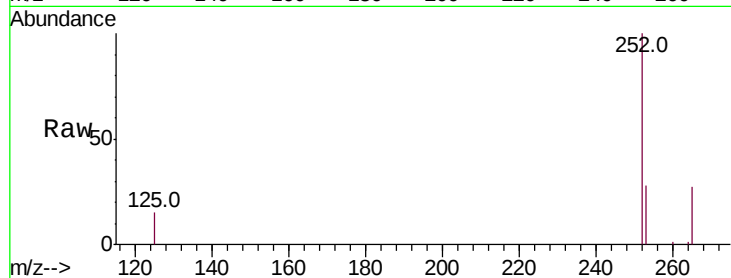
Tot Ion:252 Resp: 17430

Ion Ratio Lower Upper

252 100

253 27.8 18.1 27.1#

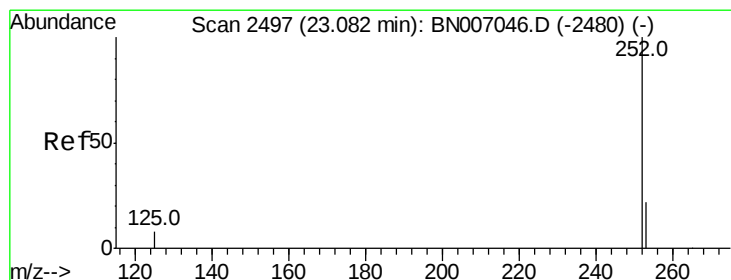
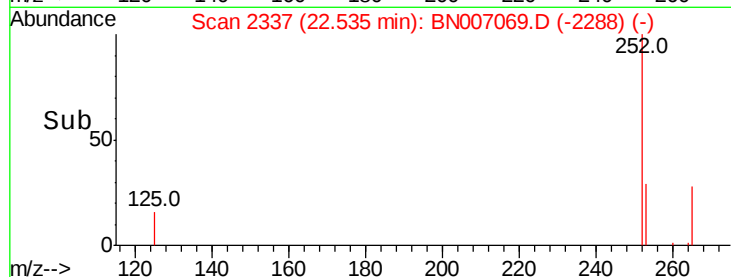
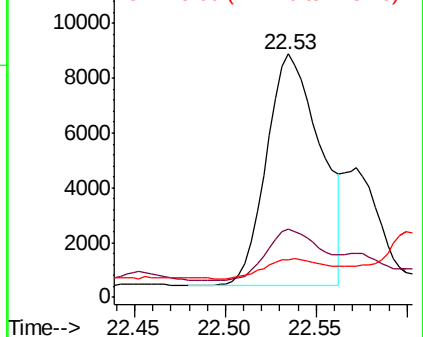
125 15.5 7.4 11.0#



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



#35

Benzo(a)pyrene

Concen: 0.104 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

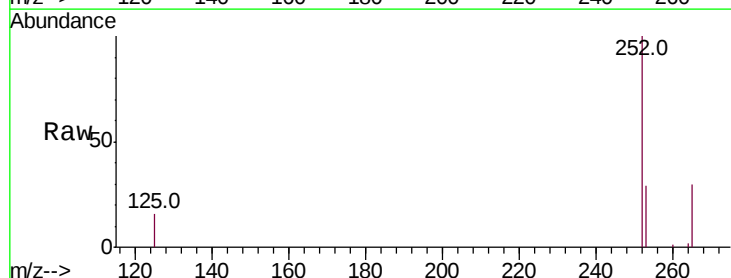
Tgt Ion:252 Resp: 13456

Ion Ratio Lower Upper

252 100

253 28.7 18.5 27.7#

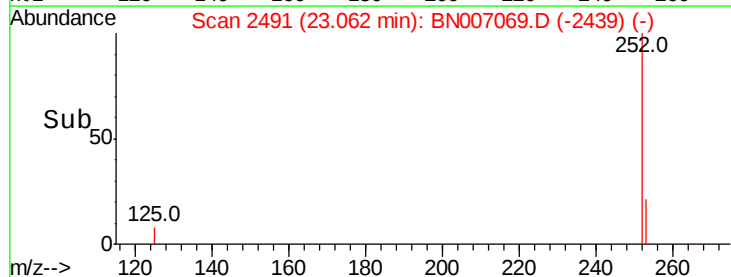
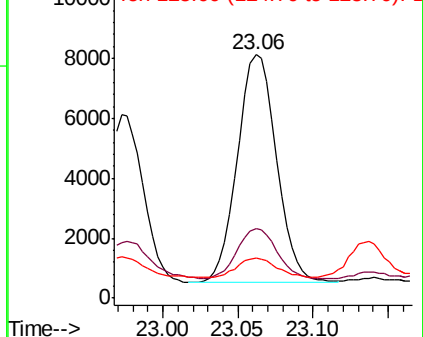
125 16.5 8.2 12.4#

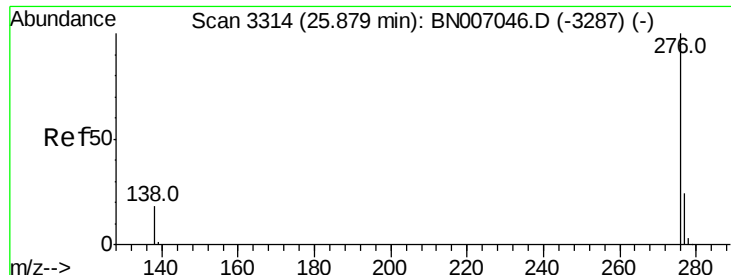


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a,h,i)perylene

Concen: 0.080 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

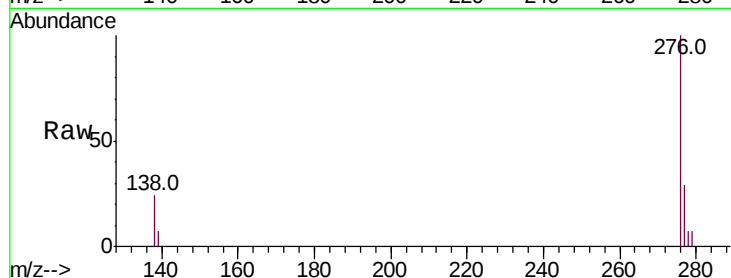
Lab File: BN007069.D

Acq: 11 Aug 2019 03:48

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 10580

Ion Ratio Lower Upper

276 100

277 29.4 19.8 29.8

138 23.6 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

