

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070220\
 Data File : BN011088.D
 Acq On : 02 Jul 2020 16:30
 Operator : CG/JU
 Sample : L1955-03
 Misc : MDL-SOIL-03
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-03

Quant Time: Jul 02 17:02:50 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN063020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 14:12:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	1631	0.40	ng	0.00
7) Naphthalene-d8	10.27	136	4837	0.40	ng	0.00
13) Acenaphthene-d10	14.14	164	2665	0.40	ng	0.01
19) Phenanthrene-d10	16.90	188	5137	0.40	ng	0.00
29) Chrysene-d12	21.11	240	4332	0.40	ng	0.00
36) Perylene-d12	23.25	264	4505	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.19	112	876	0.22	ng	0.00
5) Phenol-d6	6.73	99	835	0.18	ng	0.00
8) Nitrobenzene-d5	8.67	82	1239	0.30	ng	0.01
11) 2-Methylnaphthalene-d10	11.87	152	2758	0.33	ng	0.00
14) 2,4,6-Tribromophenol	15.67	330	215	0.19	ng	0.01
15) 2-Fluorobiphenyl	12.77	172	3734	0.30	ng	0.01
27) Fluoranthene-d10	18.94	212	5338	0.34	ng	0.00
31) Terphenyl-d14	19.56	244	4249	0.38	ng	0.00

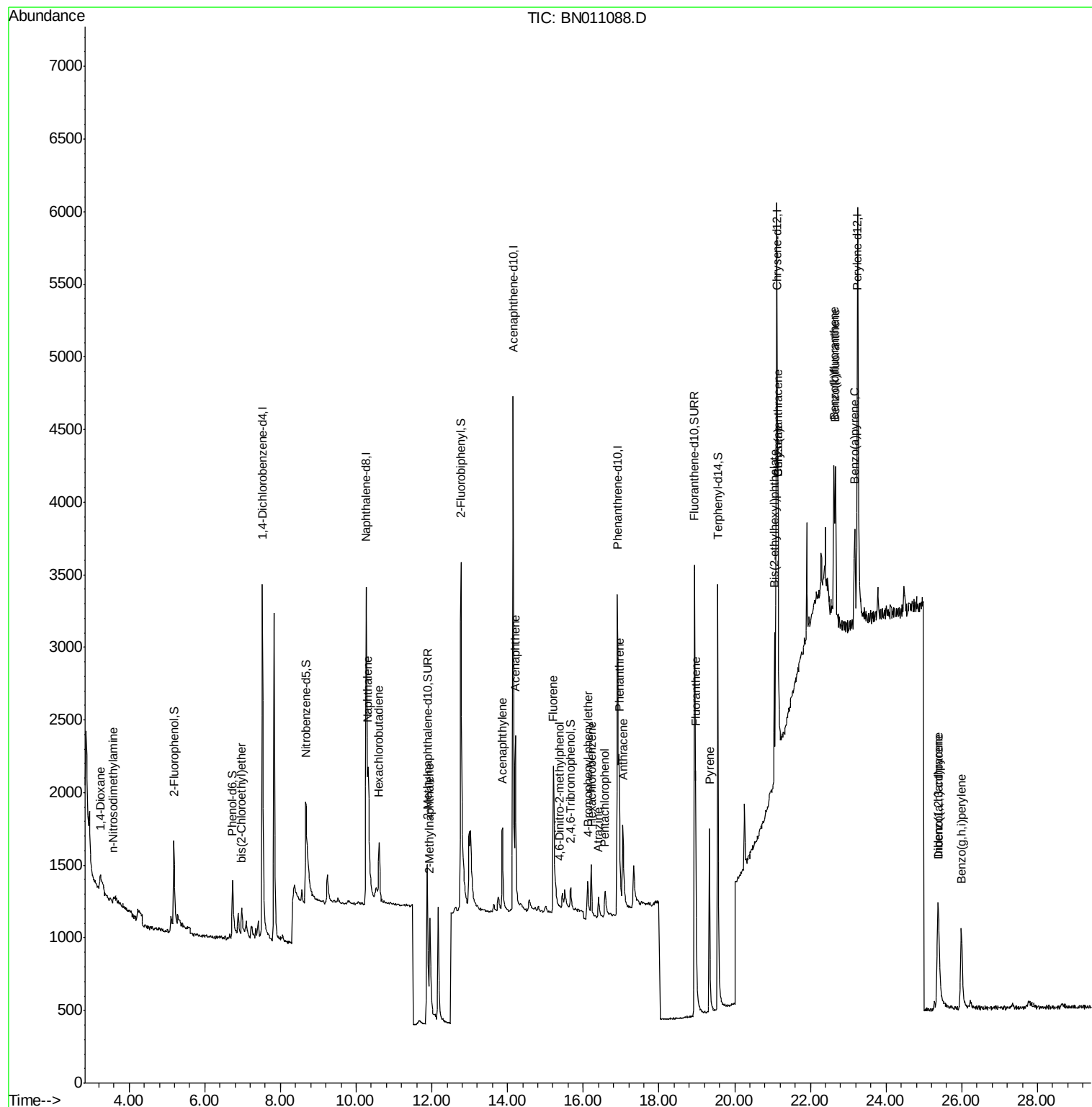
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.24	88	131	0.057	ng	# 87
3) n-Nitrosodimethylamine	3.59	42	27	0.023	ng	# 1
6) bis(2-Chloroethyl)ether	6.98	93	276	0.065	ng	97
9) Naphthalene	10.32	128	1290	0.089	ng	# 82
10) Hexachlorobutadiene	10.61	225	318	0.087	ng	# 98
12) 2-Methylnaphthalene	11.95	142	793	0.082	ng	# 90
16) Acenaphthylene	13.87	152	1035	0.077	ng	99
17) Acenaphthene	14.21	154	714	0.079	ng	92
18) Fluorene	15.21	166	861	0.076	ng	95
20) 4,6-Dinitro-2-methylphenol	15.36	198	33	0.060	ng	# 40
21) 4-Bromophenyl-phenylether	16.12	248	207	0.061	ng	93
22) Hexachlorobenzene	16.22	284	366	0.091	ng	93
23) Atrazine	16.40	200	197	0.082	ng	# 62
24) Pentachlorophenol	16.57	266	185	0.171	ng	99
25) Phenanthrene	16.95	178	1306	0.079	ng	99
26) Anthracene	17.04	178	1046	0.076	ng	97
28) Fluoranthene	18.97	202	1507	0.081	ng	98
30) Pyrene	19.33	202	1489	0.092	ng	98
32) Benzo(a)anthracene	21.15	228	1533	0.106	ng	91
33) Chrysene	21.15	228	1521	0.092	ng	95
34) Bis(2-ethylhexyl)phthalate	21.05	149	788	0.135	ng	# 97
35) Indeno(1,2,3-cd)pyrene	25.37	276	1423	0.082	ng	# 95
37) Benzo(b)fluoranthene	22.62	252	1412	0.078	ng	# 51
38) Benzo(k)fluoranthene	22.66	252	1672	0.087	ng	# 46
39) Benzo(a)pyrene	23.17	252	1265	0.081	ng	# 19
40) Dibenzo(a,h)anthracene	25.38	278	1005	0.063	ng	# 27
41) Benzo(g,h,i)perylene	25.99	276	1424	0.081	ng	# 76

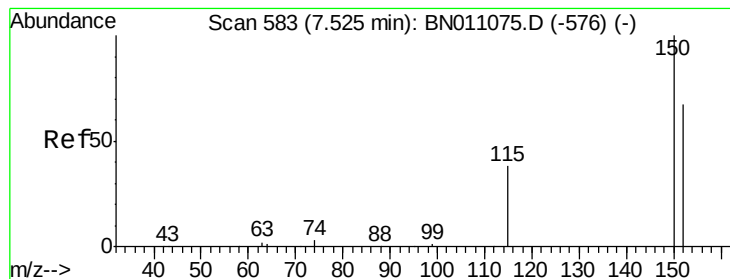
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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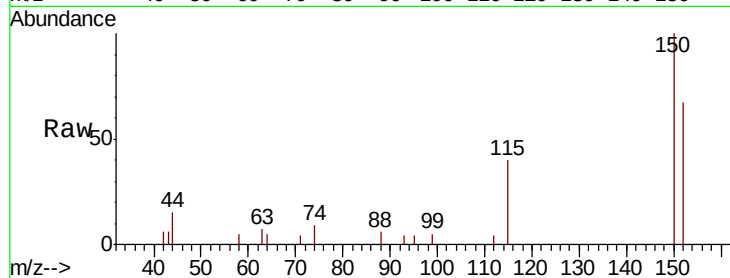


#1

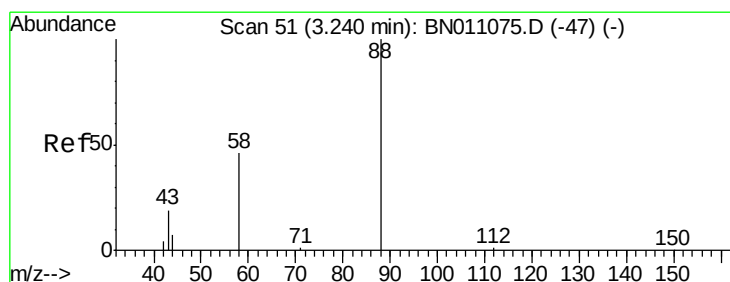
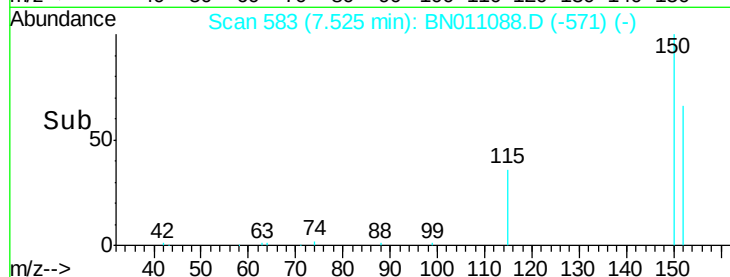
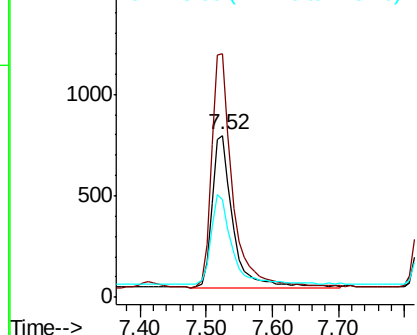
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.52 min Scan# 583
Delta R.T. 0.00 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-03

Tot Ion:152 Resp: 1631
Ion Ratio Lower Upper
152 100
150 150.1 117.4 176.0
115 60.2 47.9 71.9



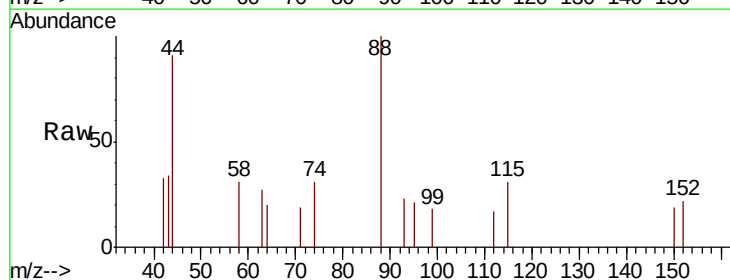
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



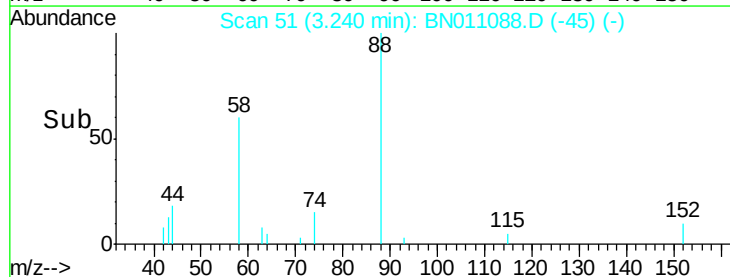
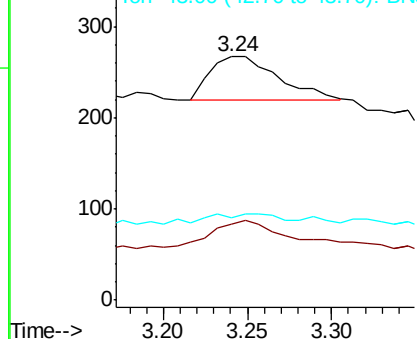
#2

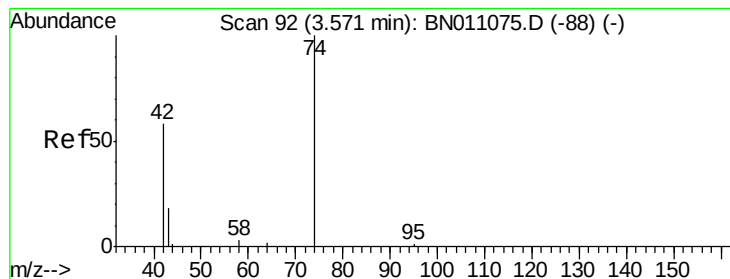
1,4-Dioxane
Concen: 0.057 ng
RT: 3.24 min Scan# 51
Delta R.T. 0.00 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

Tgt Ion: 88 Resp: 131
Ion Ratio Lower Upper
88 100
58 60.3 38.6 57.8#
43 19.8 15.4 23.0



Abundance Ion 88.00 (87.70 to 88.70): BNC
Ion 58.00 (57.70 to 58.70): BNC
Ion 43.00 (42.70 to 43.70): BNC



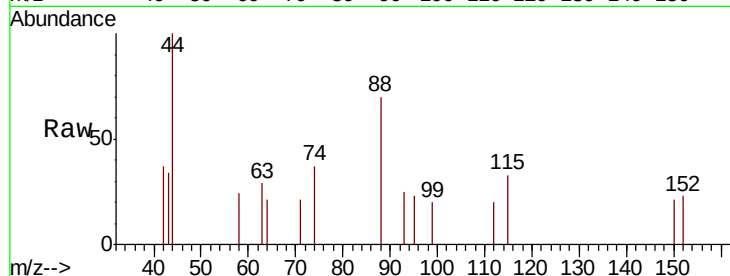


#3

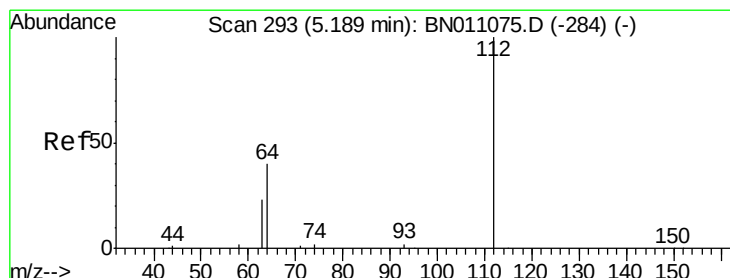
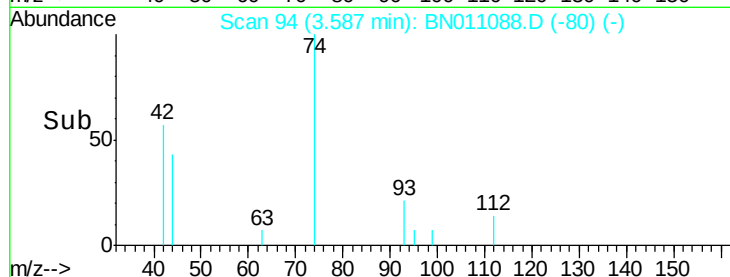
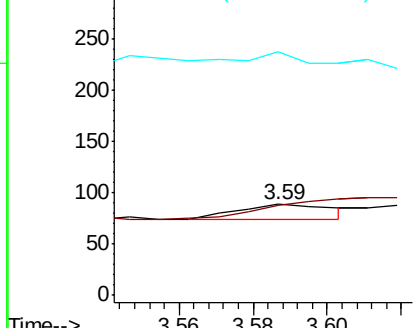
n-Nitrosodimethylamine
 Concen: 0.023 ng
 RT: 3.59 min Scan# 94
 Delta R.T. 0.02 min
 Lab File: BN011088.D
 Acq: 02 Jul 2020 16:30

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-03

Tot Ion: 42 Resp: 27
 Ion Ratio Lower Upper
 42 100
 74 0.0 142.5 213.7#
 44 29.6 0.0 0.0#



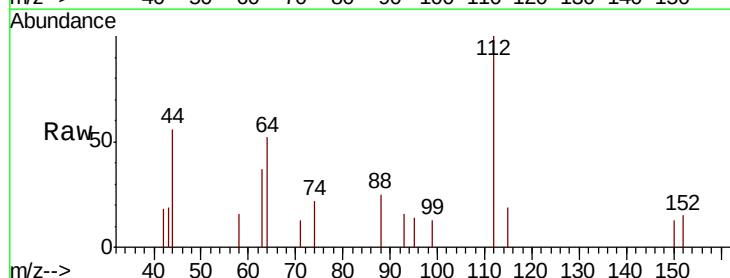
Abundance Ion 42.00 (41.70 to 42.70): BN0
 Ion 74.00 (73.70 to 74.70): BN0
 Ion 44.00 (43.70 to 44.70): BN0



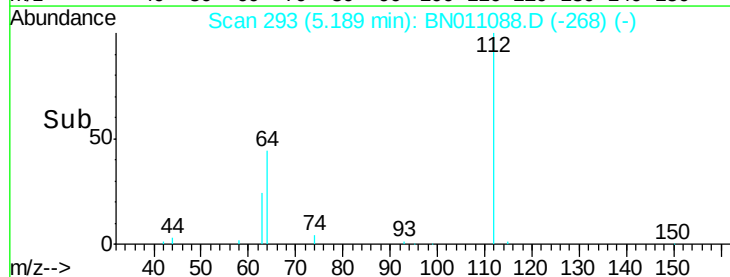
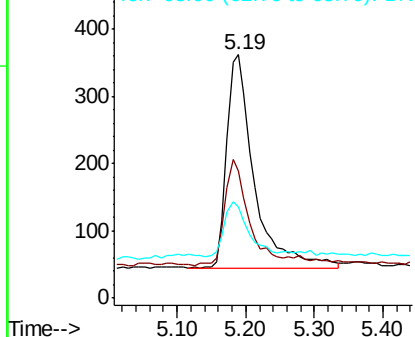
#4

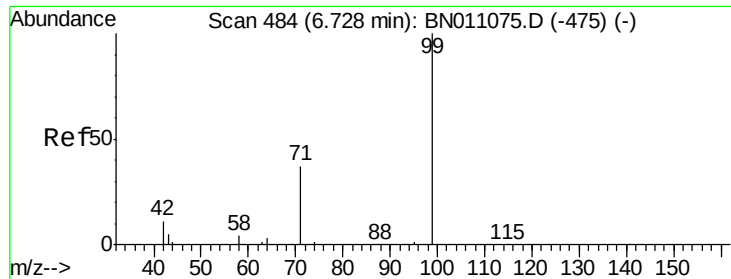
2-Fluorophenol
 Concen: 0.216 ng
 RT: 5.19 min Scan# 293
 Delta R.T. 0.00 min
 Lab File: BN011088.D
 Acq: 02 Jul 2020 16:30

Tgt Ion: 112 Resp: 876
 Ion Ratio Lower Upper
 112 100
 64 48.2 36.5 54.7
 63 22.5 20.6 30.8



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BN0
 Ion 63.00 (62.70 to 63.70): BN0





#5

Phenol-d6

Concen: 0.179 ng

RT: 6.73 min Scan# 484

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

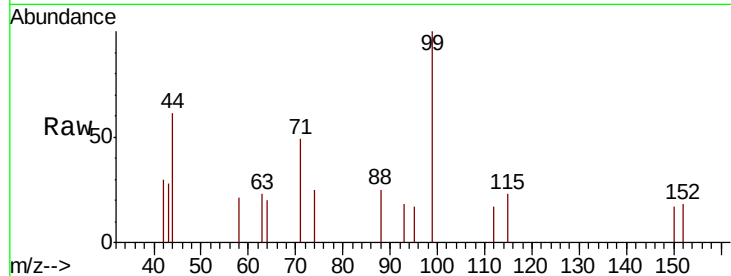
Tot Ion: 99 Resp: 835

Ion Ratio Lower Upper

99 100

42 12.5 9.8 14.8

71 38.1 30.7 46.1

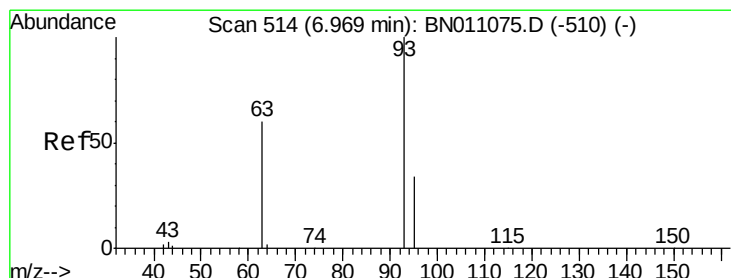
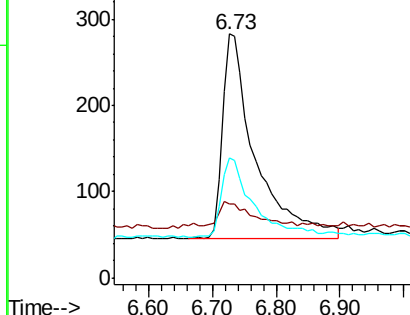
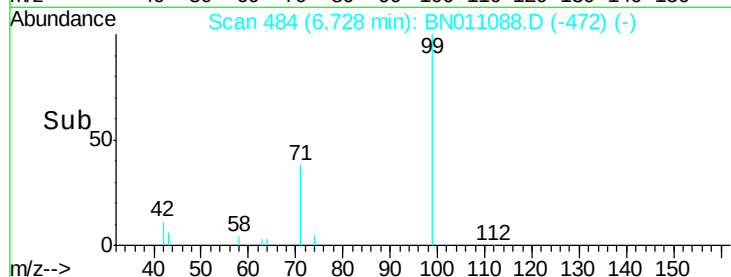


Abundance Ion 99.00 (98.70 to 99.70): BN011075.D (-475) (-)

Ion 42.00 (41.70 to 42.70): BN011075.D (-475) (-)

Ion 71.00 (70.70 to 71.70): BN011075.D (-475) (-)

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.065 ng

RT: 6.98 min Scan# 515

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

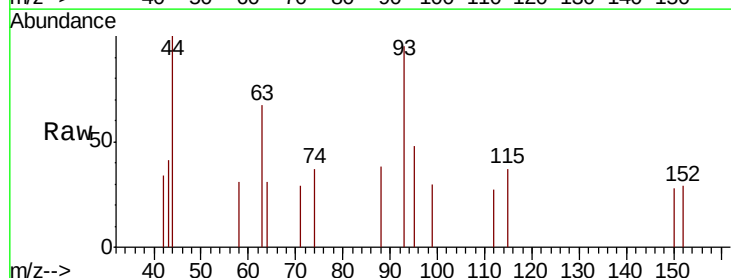
Tgt Ion: 93 Resp: 276

Ion Ratio Lower Upper

93 100

63 57.2 47.4 71.2

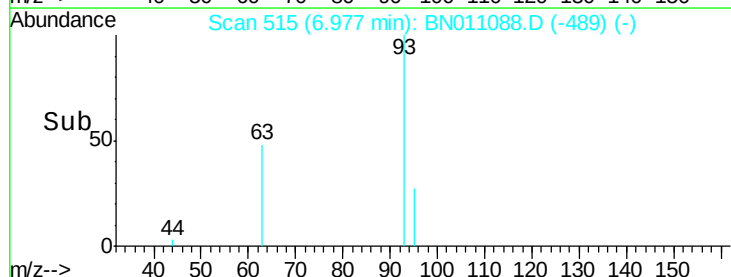
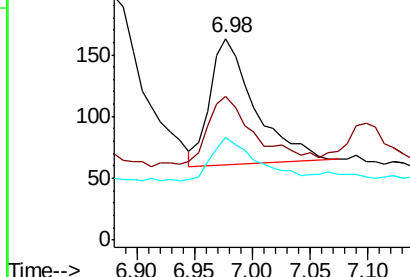
95 34.8 26.4 39.6

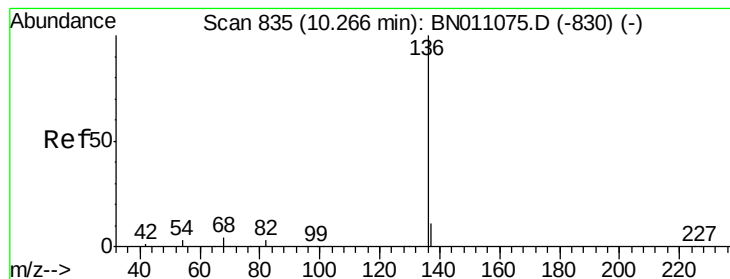


Abundance Ion 93.00 (92.70 to 93.70): BN011075.D (-510) (-)

Ion 63.00 (62.70 to 63.70): BN011075.D (-510) (-)

Ion 95.00 (94.70 to 95.70): BN011075.D (-510) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.27 min Scan# 835

Delta R.T. -0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

Tot Ion:136 Resp: 4837

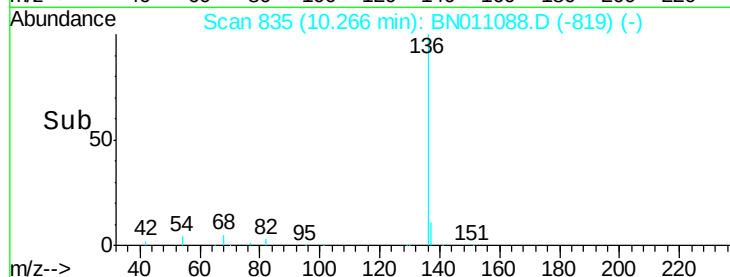
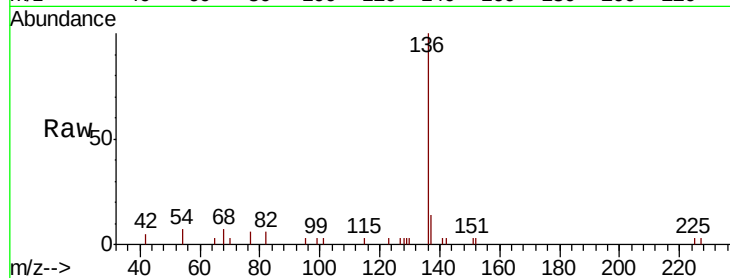
Ion Ratio Lower Upper

136 100

137 13.7 9.6 14.4

54 7.0 3.8 5.6#

68 7.4 4.3 6.5#

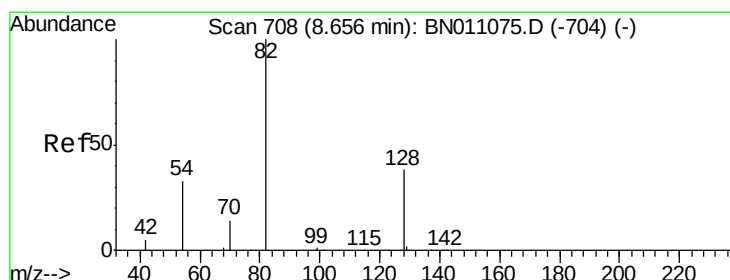
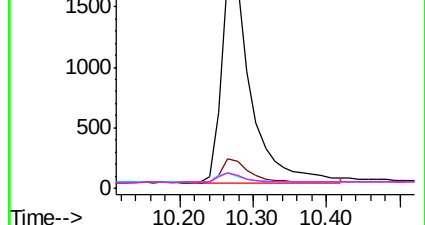


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.301 ng

RT: 8.67 min Scan# 709

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

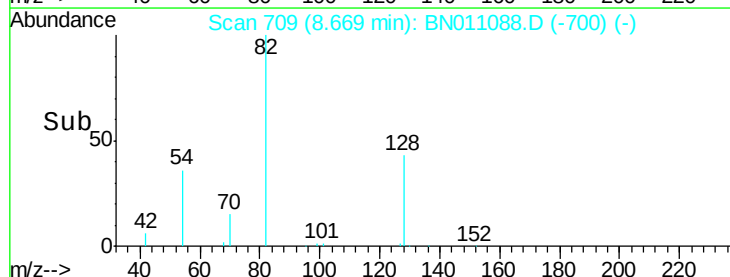
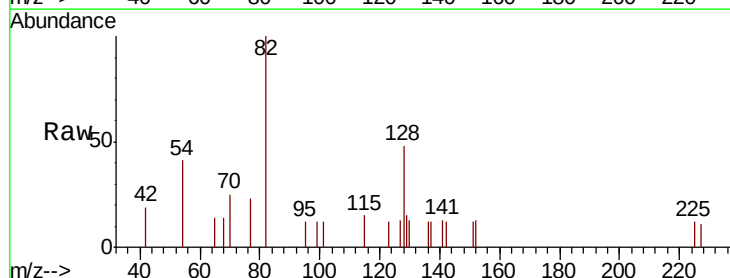
Tgt Ion: 82 Resp: 1239

Ion Ratio Lower Upper

82 100

128 48.2 34.2 51.2

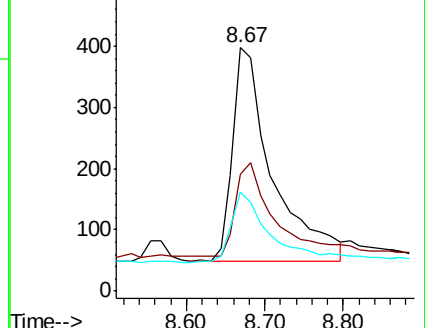
54 40.7 29.4 44.0

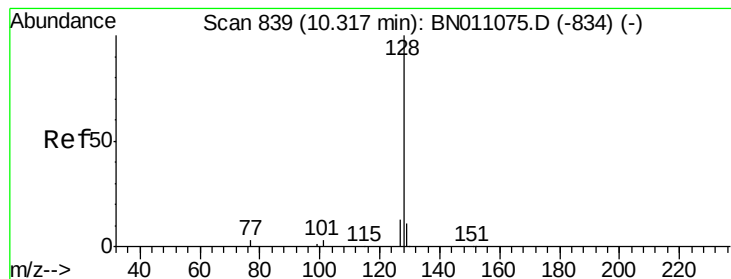


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.089 ng

RT: 10.32 min Scan# 839

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

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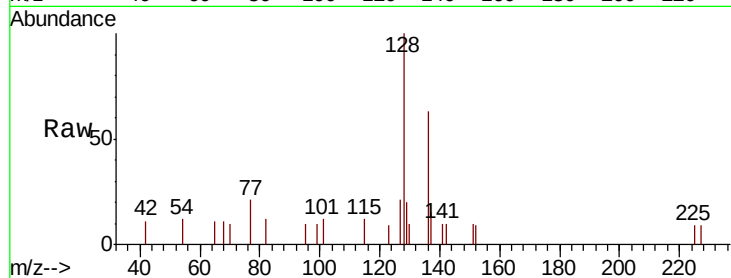
Tot Ion:128 Resp: 1290

Ion Ratio Lower Upper

128 100

129 19.8 9.8 14.8#

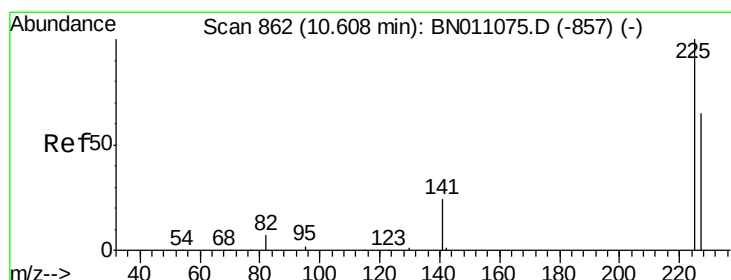
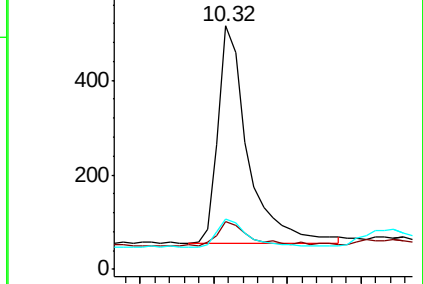
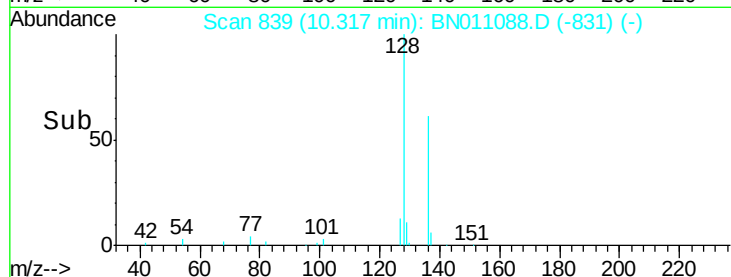
127 21.0 11.3 16.9#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.087 ng

RT: 10.61 min Scan# 862

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

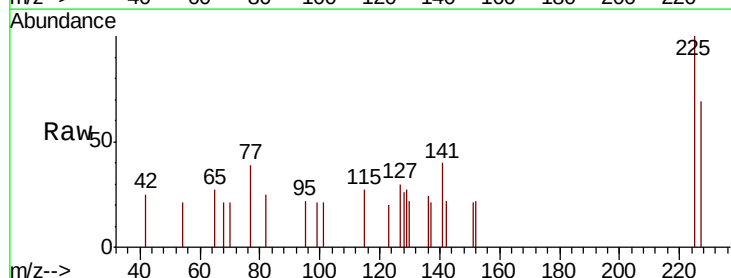
Tgt Ion:225 Resp: 318

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

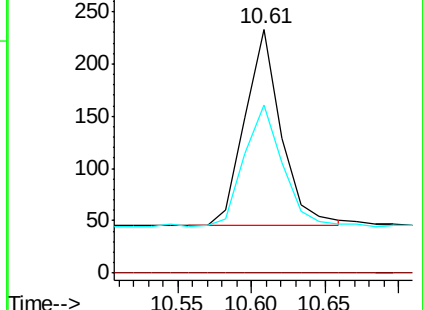
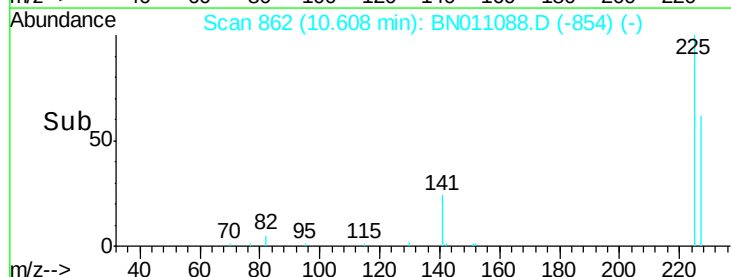
227 66.0 51.4 77.2

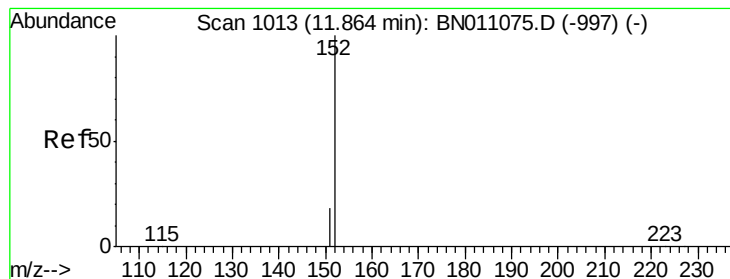


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.329 ng

RT: 11.87 min Scan# 1015

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

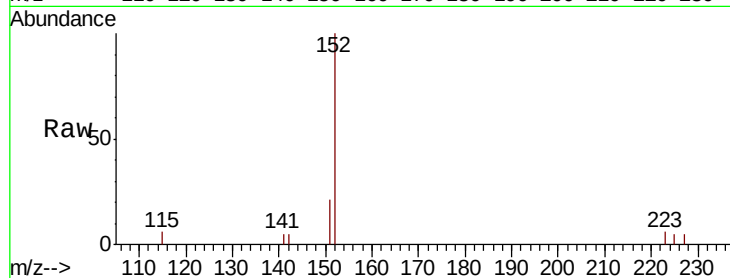
MDL-SOIL-03

Tot Ion:152 Resp: 2758

Ion Ratio Lower Upper

152 100

151 18.3 16.6 24.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.87

1000

800

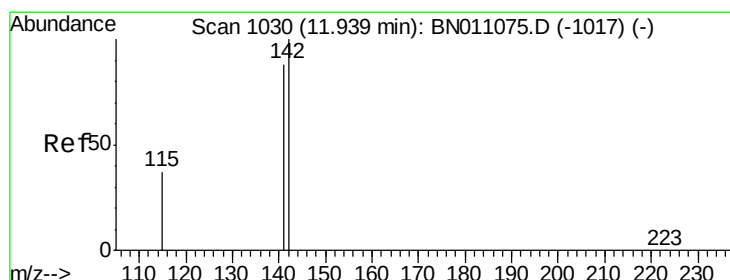
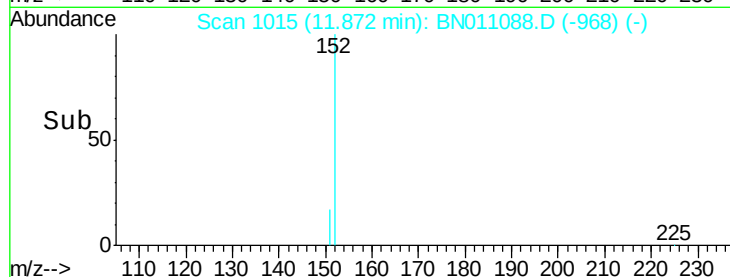
600

400

200

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.082 ng

RT: 11.95 min Scan# 1032

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

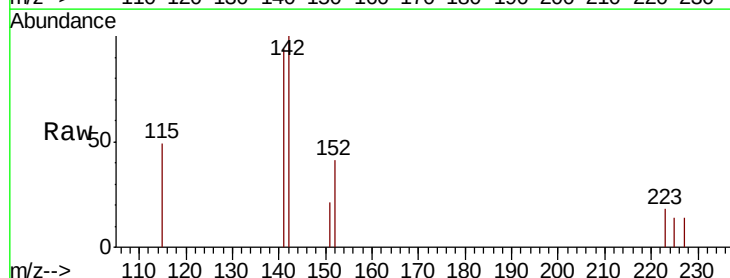
Tgt Ion:142 Resp: 793

Ion Ratio Lower Upper

142 100

141 94.1 70.3 105.5

115 48.8 31.2 46.8#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.95

500

400

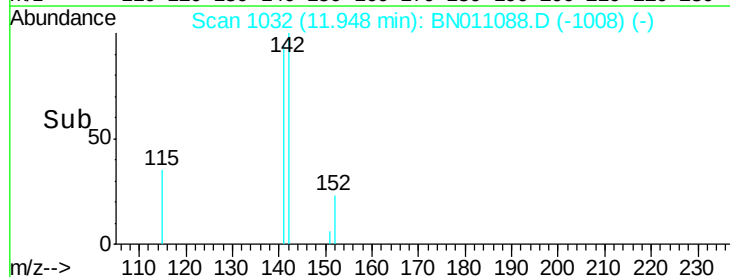
300

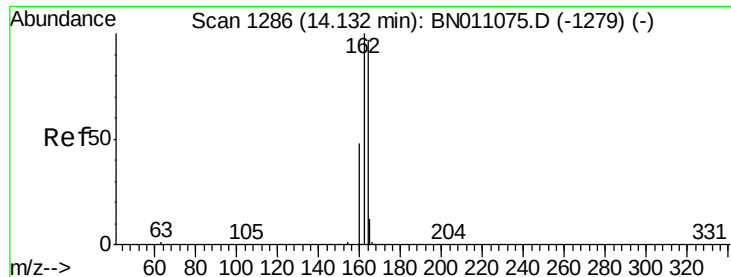
200

100

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.14 min Scan# 1287

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

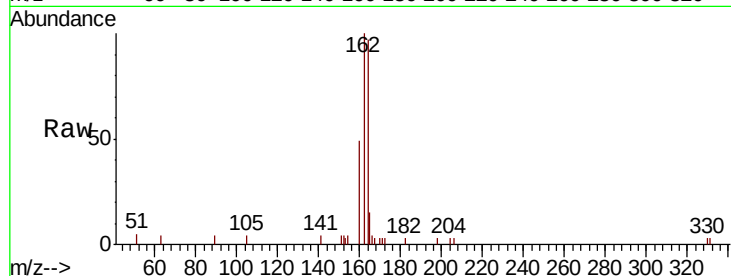
Tot Ion:164 Resp: 2665

Ion Ratio Lower Upper

164 100

162 103.4 82.3 123.5

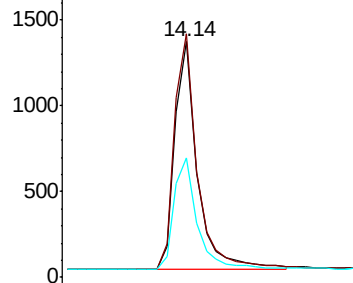
160 50.6 40.6 61.0



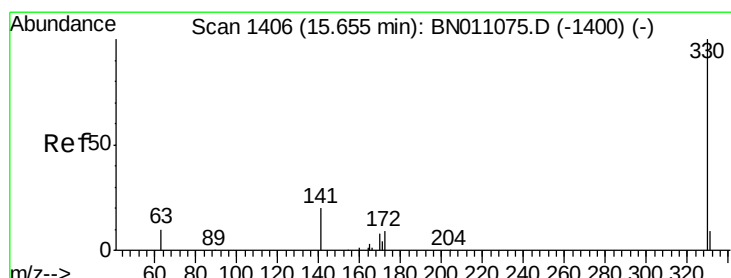
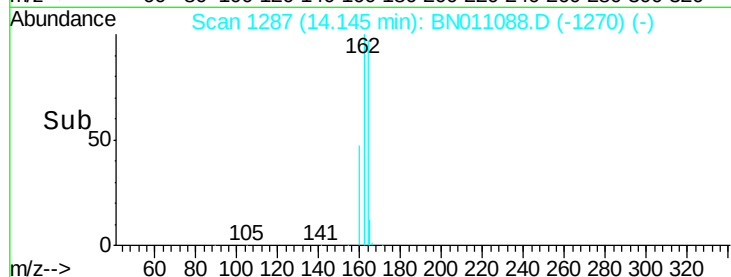
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#14

2,4,6-Tribromophenol

Concen: 0.192 ng

RT: 15.67 min Scan# 1407

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

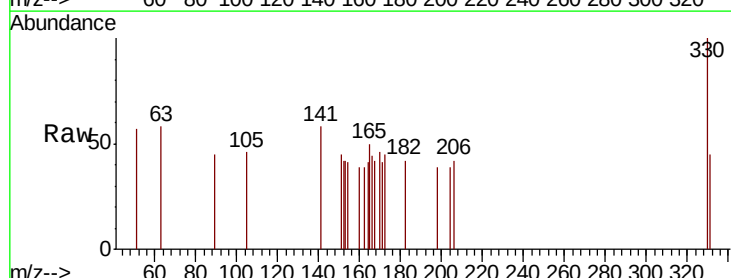
Tgt Ion:330 Resp: 215

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

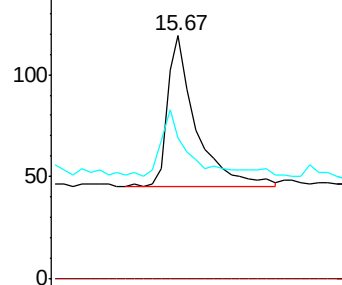
141 39.5 32.6 49.0



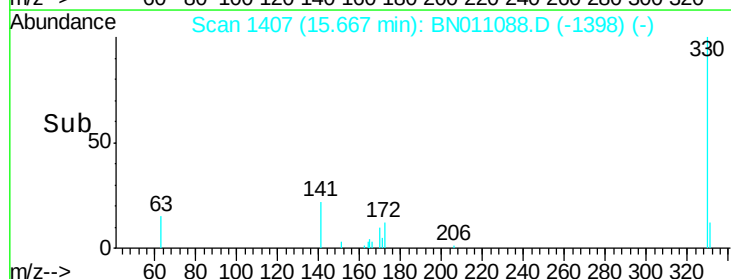
Abundance Ion 330.00 (329.70 to 330.70): E

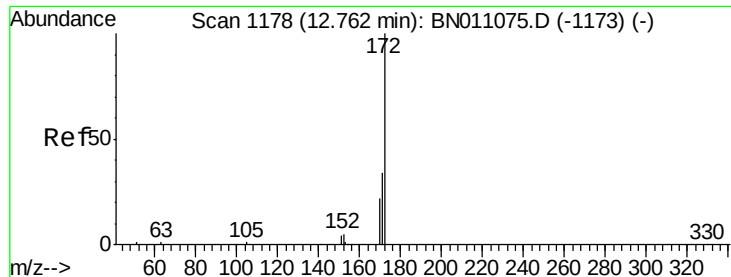
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->

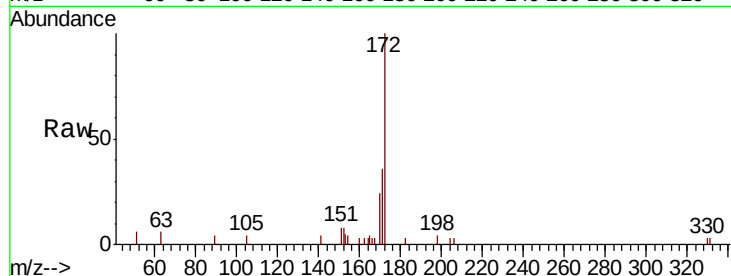




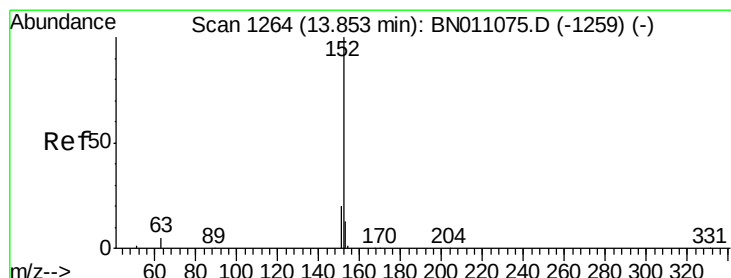
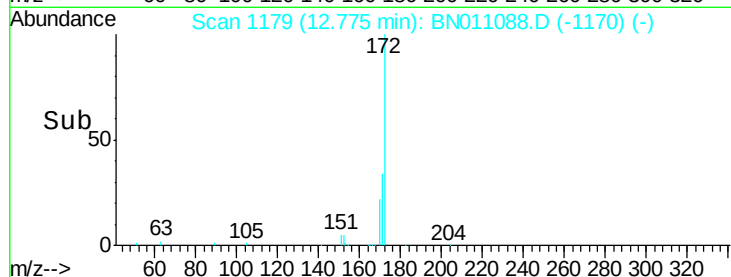
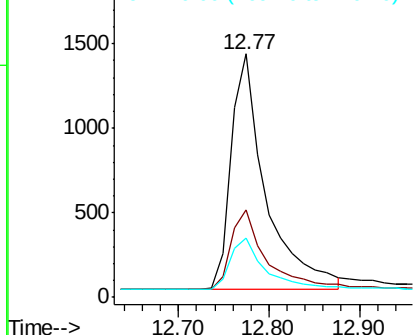
#15
2-Fluorobiphenyl
Concen: 0.298 ng
RT: 12.77 min Scan# 1179
Delta R.T. 0.01 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-03

Tot Ion:172 Resp: 3734
Ion Ratio Lower Upper
172 100
171 35.9 27.9 41.9
170 24.4 18.7 28.1

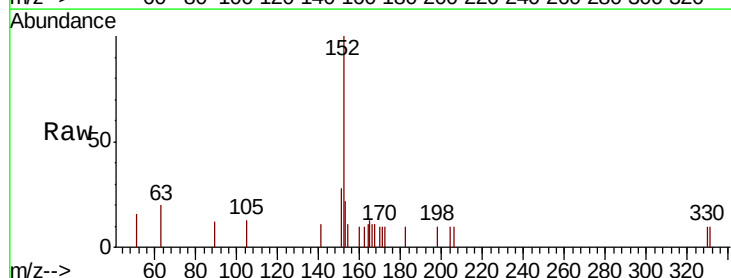


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

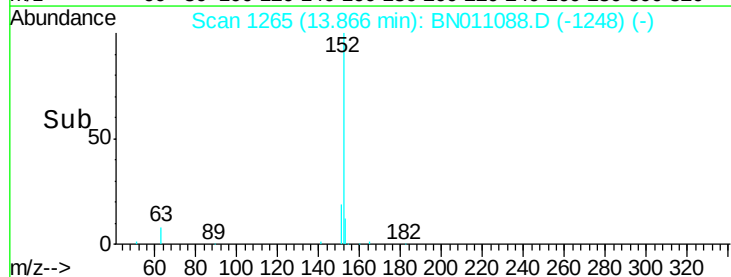
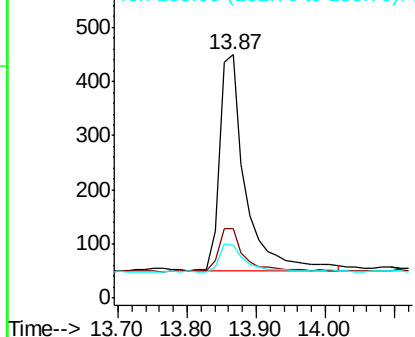


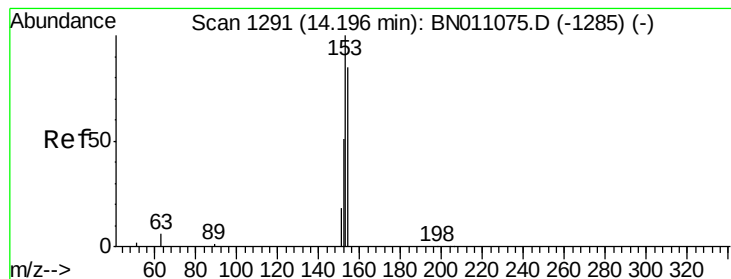
#16
Acenaphthylene
Concen: 0.077 ng
RT: 13.87 min Scan# 1265
Delta R.T. 0.01 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

Tgt Ion:152 Resp: 1035
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 12.8 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.079 ng

RT: 14.21 min Scan# 1292

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

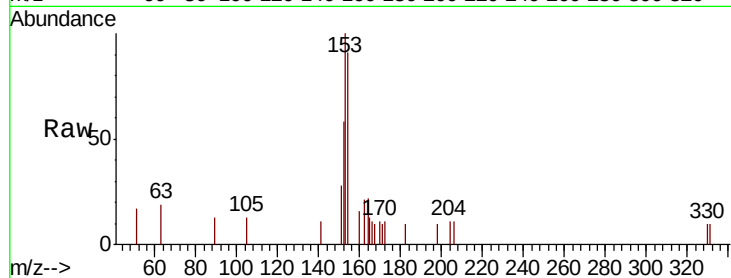
Tot Ion:154 Resp: 714

Ion Ratio Lower Upper

154 100

153 123.9 91.7 137.5

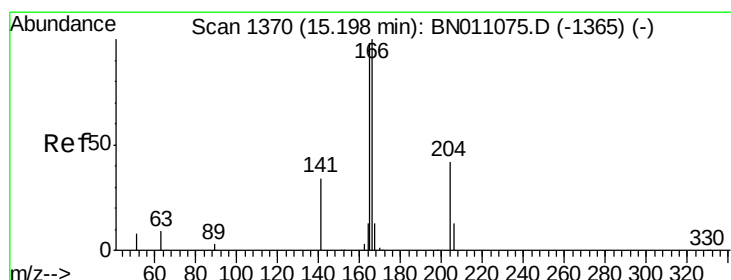
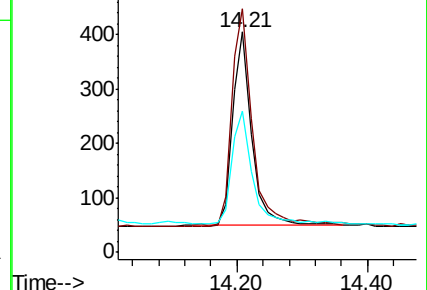
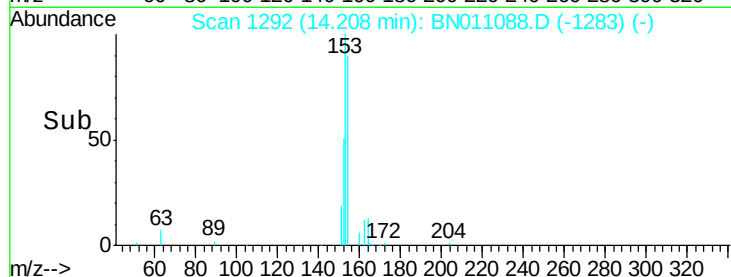
152 62.9 46.8 70.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.076 ng

RT: 15.21 min Scan# 1371

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

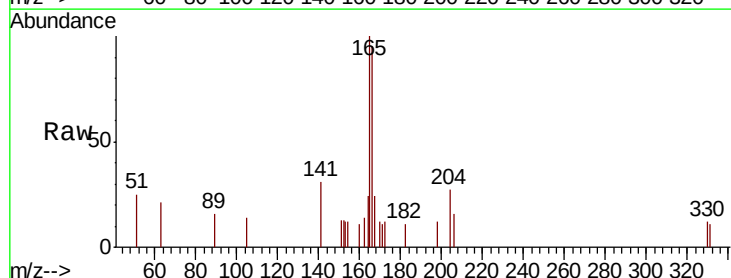
Tgt Ion:166 Resp: 861

Ion Ratio Lower Upper

166 100

165 103.1 78.9 118.3

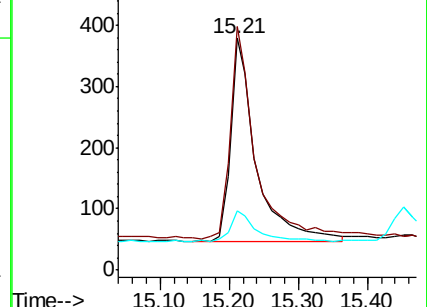
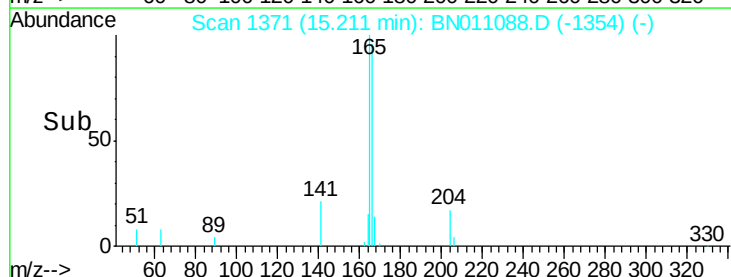
167 15.7 10.9 16.3

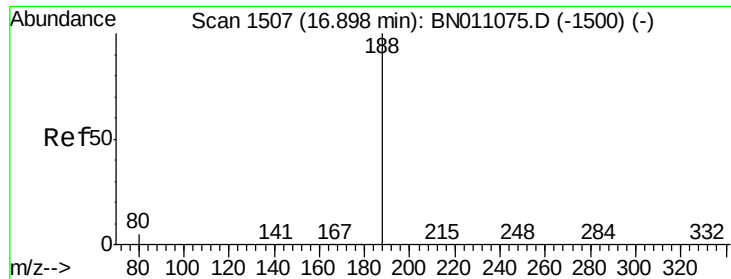


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.90 min Scan# 1507

Delta R.T. -0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampled :

MDL-SOIL-03

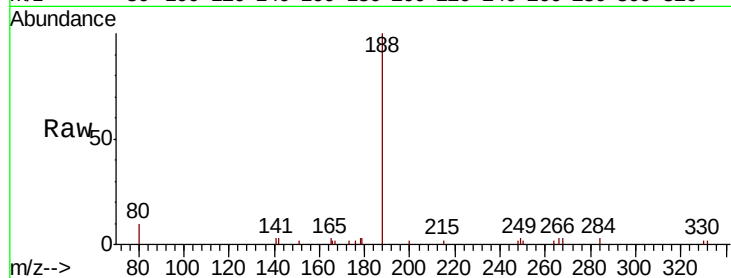
Tot Ion:188 Resp: 5137

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 5.3 7.9#



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

2500

2000

1500

1000

500

0

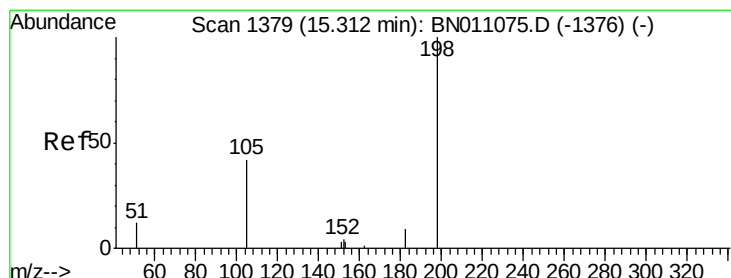
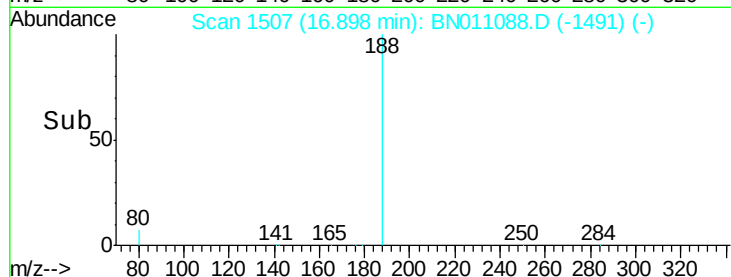
16.80

16.90

17.00

17.20

Time-->



#20

4,6-Dinitro-2-methylphenol

Concen: 0.060 ng

RT: 15.36 min Scan# 1383

Delta R.T. 0.05 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

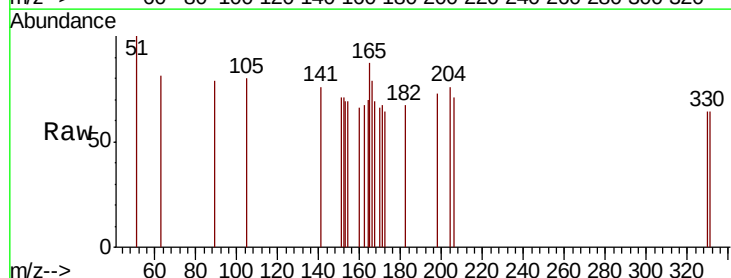
Tgt Ion:198 Resp: 33

Ion Ratio Lower Upper

198 100

51 137.3 58.2 87.4#

105 109.8 59.0 88.4#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BNC

Ion 105.00 (104.70 to 105.70): E

100

50

0

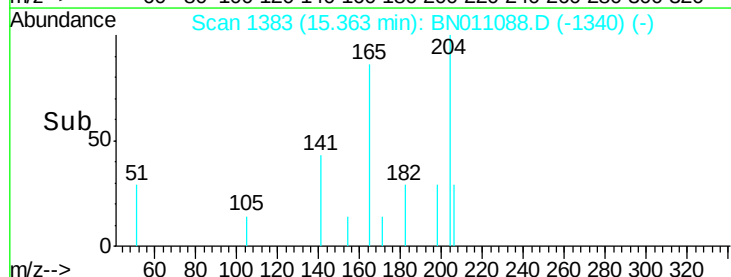
15.30

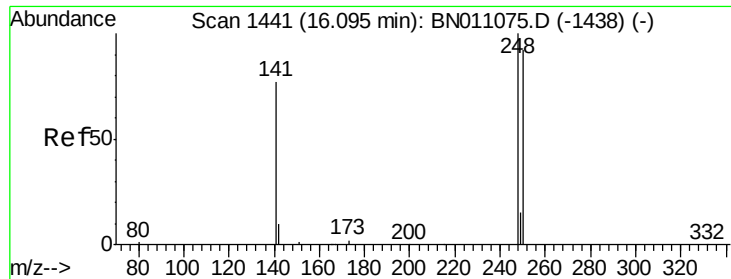
15.36

15.40

15.50

Time-->

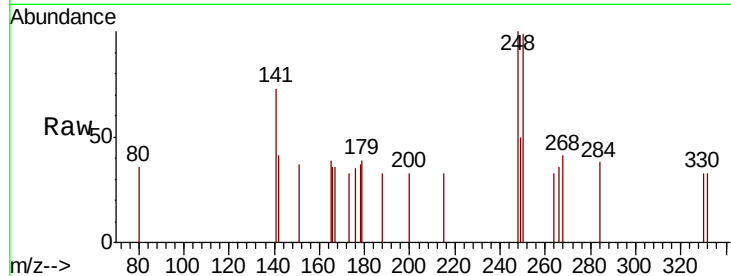




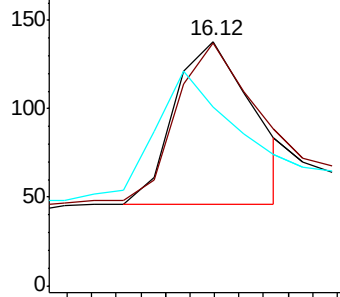
#21
4-Bromophenyl-phenylether
Concen: 0.061 ng
RT: 16.12 min Scan# 1443
Delta R.T. 0.02 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-03

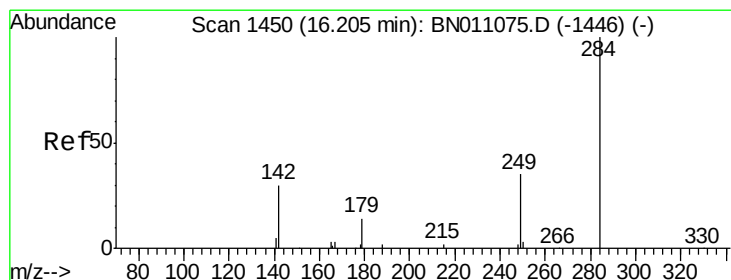
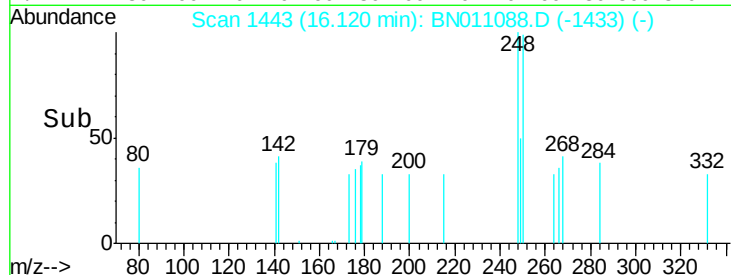
Tot Ion:248 Resp: 207
Ion Ratio Lower Upper
248 100
250 99.3 73.8 110.8
141 73.2 63.1 94.7



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

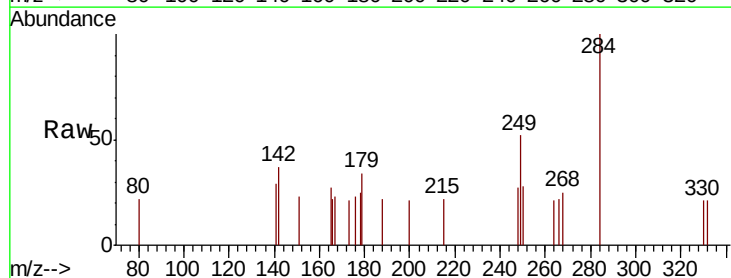


Time-->

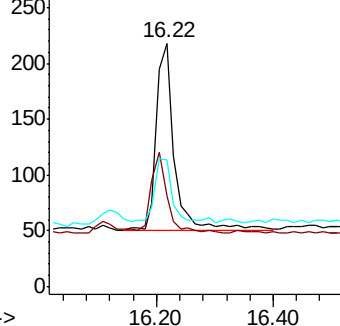


#22
Hexachlorobenzene
Concen: 0.091 ng
RT: 16.22 min Scan# 1451
Delta R.T. 0.01 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

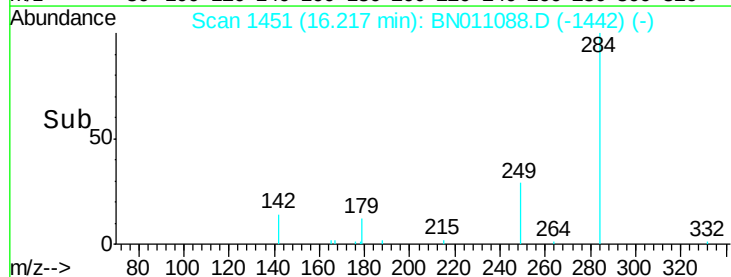
Tgt Ion:284 Resp: 366
Ion Ratio Lower Upper
284 100
142 36.6 33.3 49.9
249 30.3 27.4 41.2

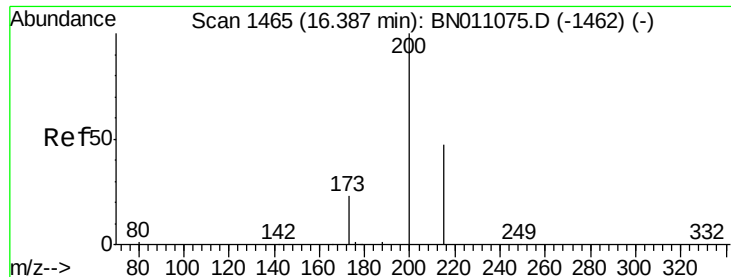


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



Time-->





#23

Atrazine

Concen: 0.082 ng

RT: 16.40 min Scan# 1466

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

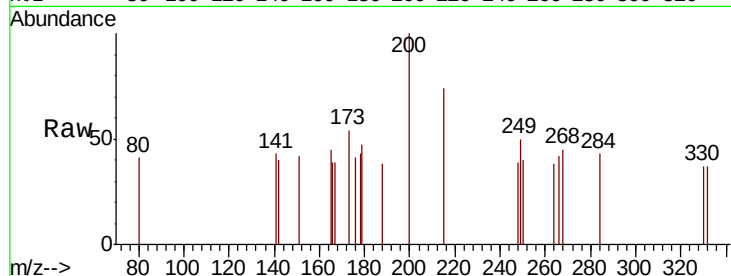
Tot Ion:200 Resp: 197

Ion Ratio Lower Upper

200 100

173 54.1 22.8 34.2#

215 73.8 40.7 61.1#



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

16.40

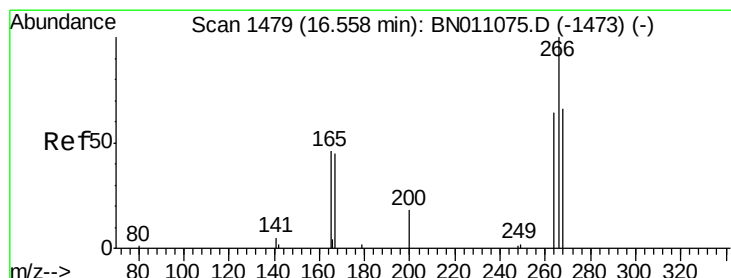
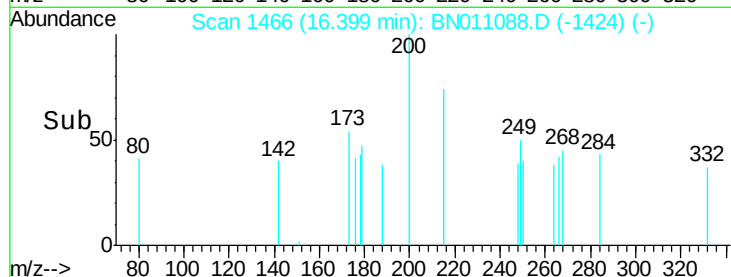
100

50

0

16.30 16.40 16.50

Time-->



#24

Pentachlorophenol

Concen: 0.171 ng

RT: 16.57 min Scan# 1480

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

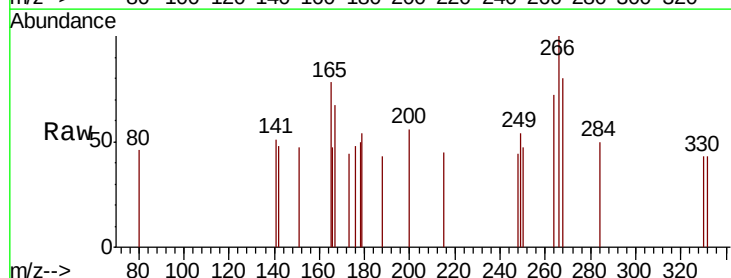
Tgt Ion:266 Resp: 185

Ion Ratio Lower Upper

266 100

264 57.8 47.4 71.0

268 68.6 55.0 82.4



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

16.57

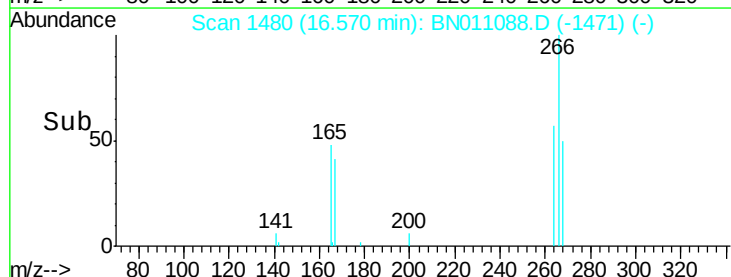
100

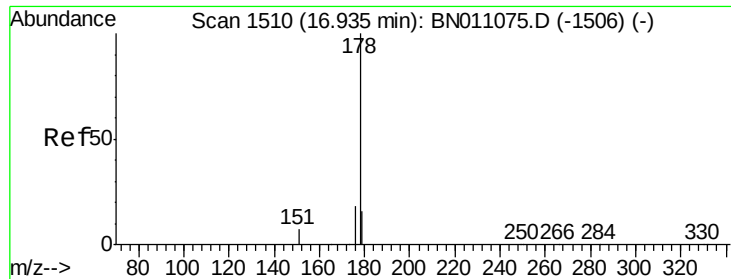
50

0

16.50 16.60 16.70

Time-->





#25

Phenanthrene

Concen: 0.079 ng

RT: 16.95 min Scan# 1511

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

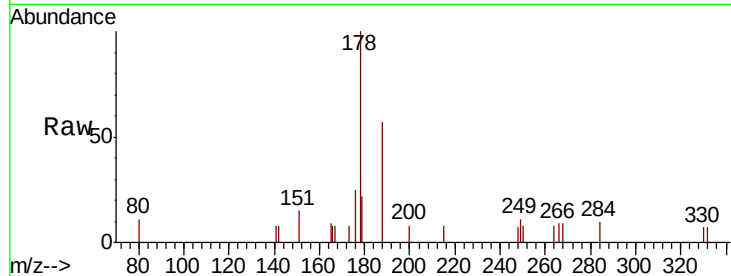
Tot Ion:178 Resp: 1306

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

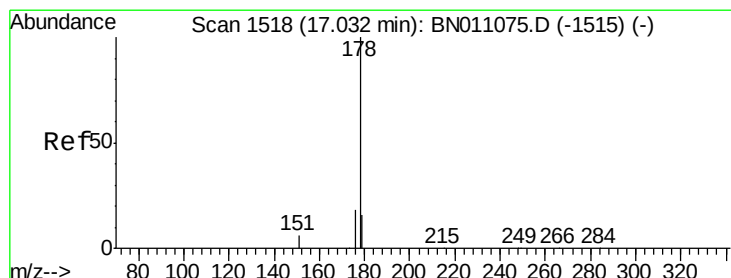
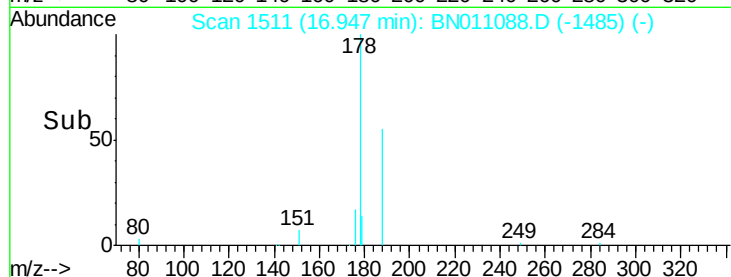
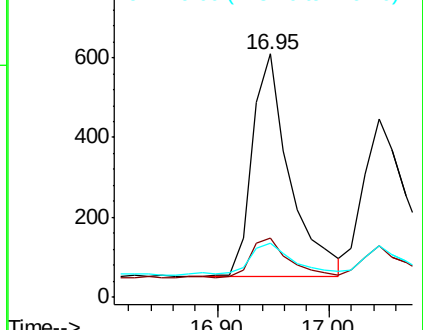
179 16.5 12.5 18.7



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



#26

Anthracene

Concen: 0.076 ng

RT: 17.04 min Scan# 1519

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

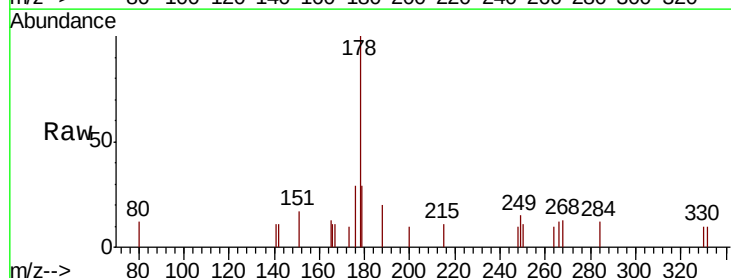
Tgt Ion:178 Resp: 1046

Ion Ratio Lower Upper

178 100

176 20.1 14.2 21.4

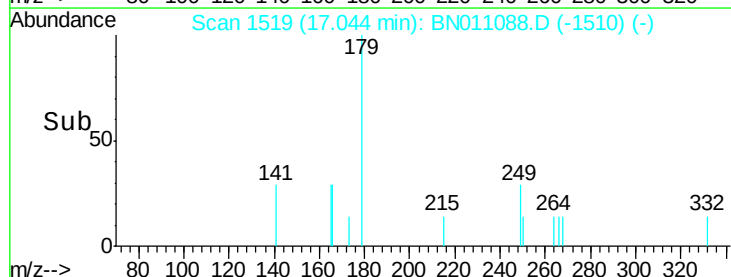
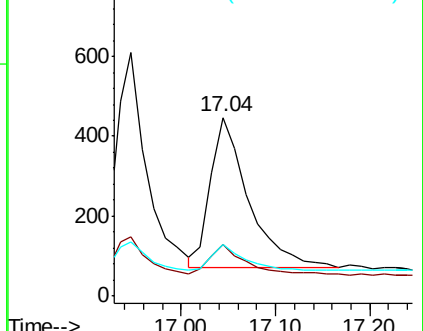
179 15.0 12.2 18.2

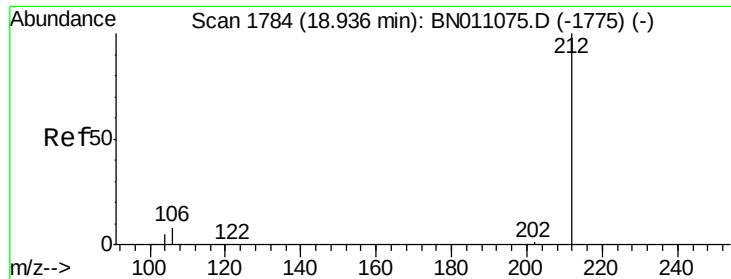


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

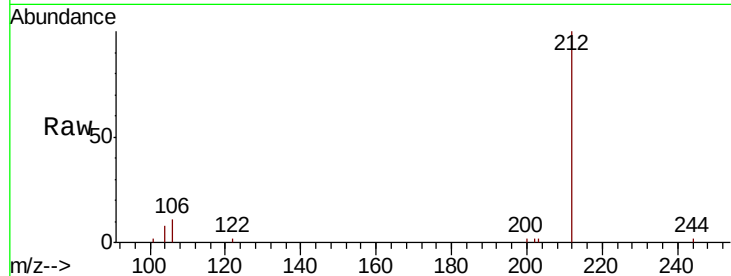




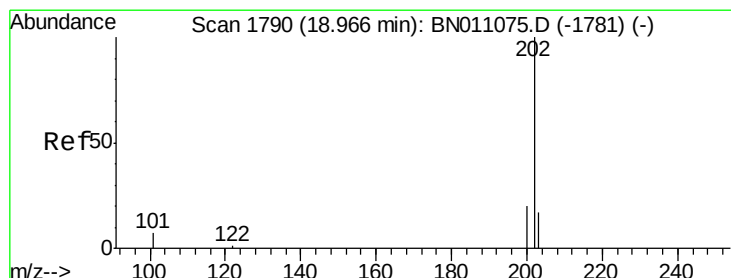
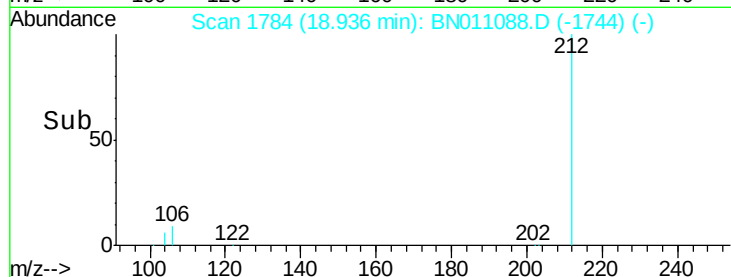
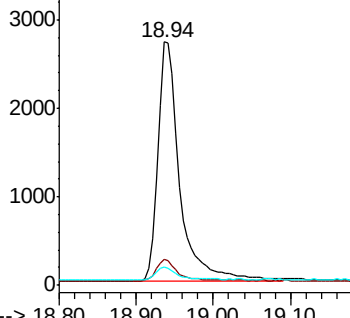
#27
 Fluoranthene-d10
 Concen: 0.344 ng
 RT: 18.94 min Scan# 1784
 Delta R.T. -0.00 min
 Lab File: BN011088.D
 Acq: 02 Jul 2020 16:30

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-03

Tot Ion:212 Resp: 5338
 Ion Ratio Lower Upper
 212 100
 106 8.7 7.1 10.7
 104 5.0 4.2 6.4

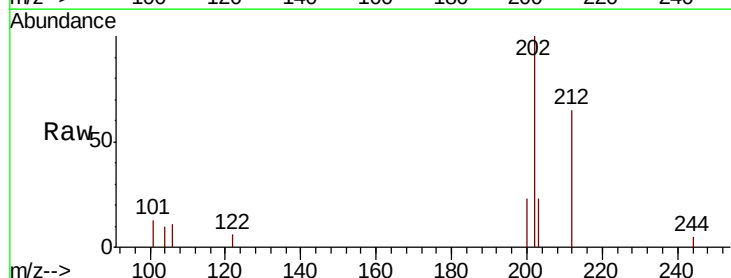


Abundance Ion 212.00 (211.70 to 212.70): E
 Ion 106.00 (105.70 to 106.70): E
 Ion 104.00 (103.70 to 104.70): E

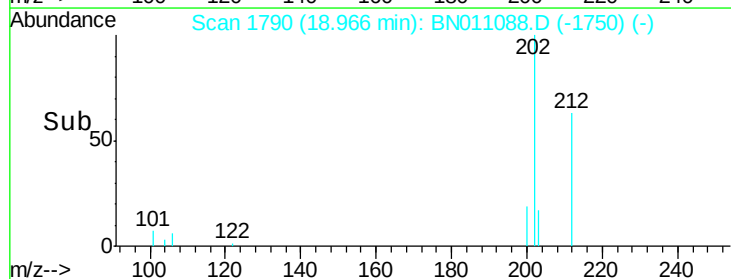
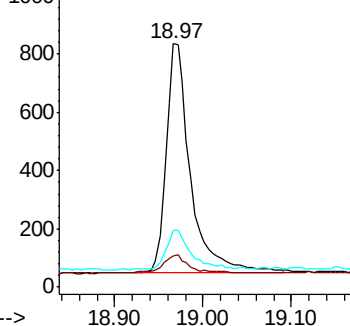


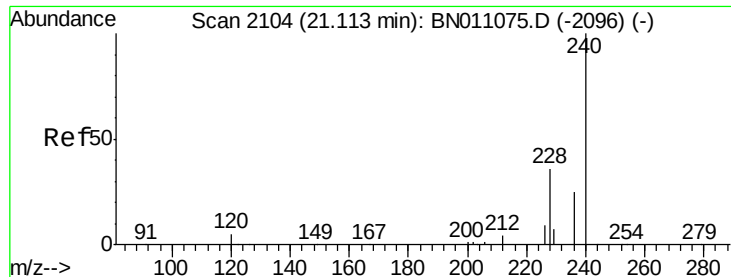
#28
 Fluoranthene
 Concen: 0.081 ng
 RT: 18.97 min Scan# 1790
 Delta R.T. -0.00 min
 Lab File: BN011088.D
 Acq: 02 Jul 2020 16:30

Tgt Ion:202 Resp: 1507
 Ion Ratio Lower Upper
 202 100
 101 8.6 6.3 9.5
 203 17.5 13.5 20.3



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

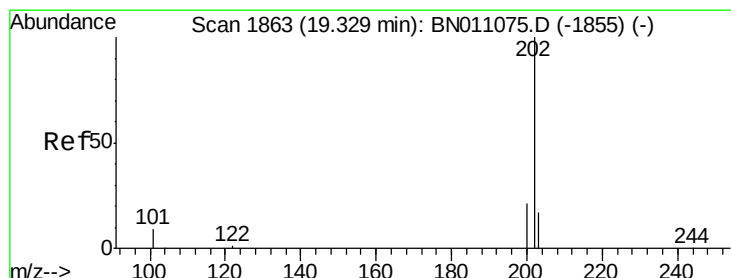
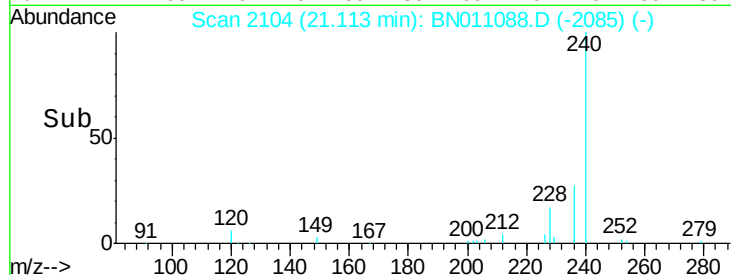
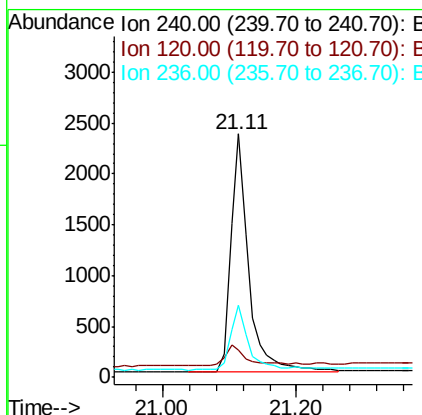
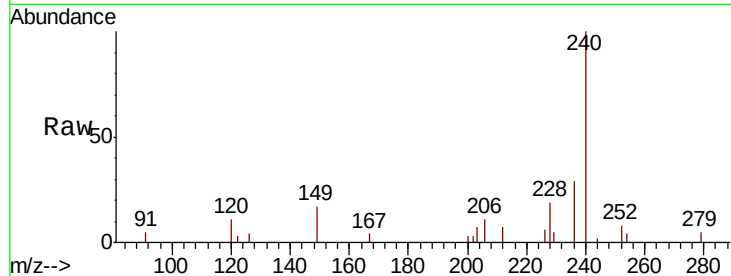




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.11 min Scan# 2104
Delta R.T. -0.00 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

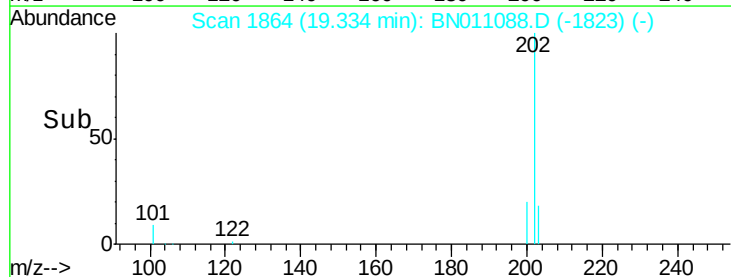
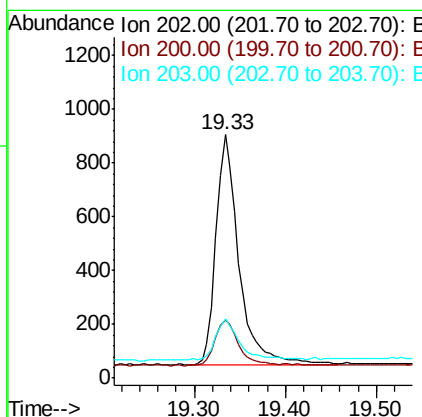
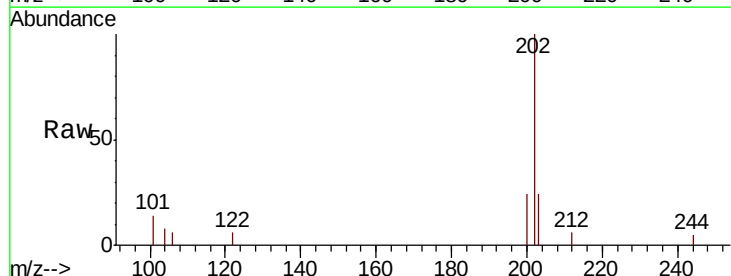
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-03

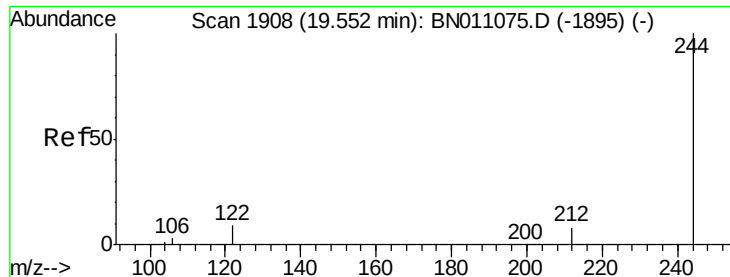
Tot Ion:240 Resp: 4332
Ion Ratio Lower Upper
240 100
120 10.9 6.5 9.7#
236 29.4 21.9 32.9



#30
Pyrene
Concen: 0.092 ng
RT: 19.33 min Scan# 1864
Delta R.T. 0.00 min
Lab File: BN011088.D
Acq: 02 Jul 2020 16:30

Tgt Ion:202 Resp: 1489
Ion Ratio Lower Upper
202 100
200 20.8 16.6 25.0
203 19.4 14.2 21.4





#31

Terphenyl-d14

Concen: 0.377 ng

RT: 19.56 min Scan# 1909

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

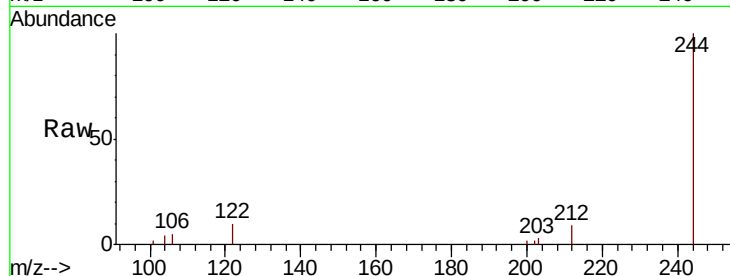
Tot Ion:244 Resp: 4249

Ion Ratio Lower Upper

244 100

212 9.5 7.5 11.3

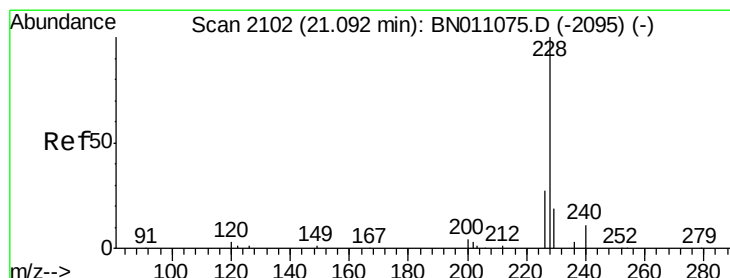
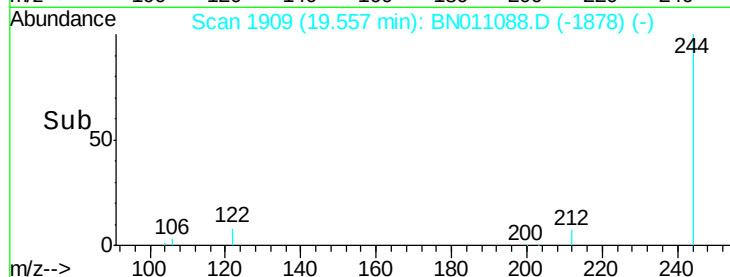
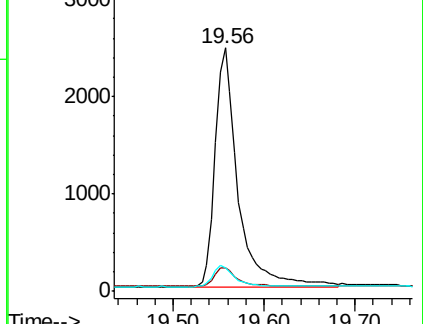
122 9.6 8.2 12.4



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



#32

Benzo(a)anthracene

Concen: 0.106 ng

RT: 21.15 min Scan# 2107

Delta R.T. 0.05 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

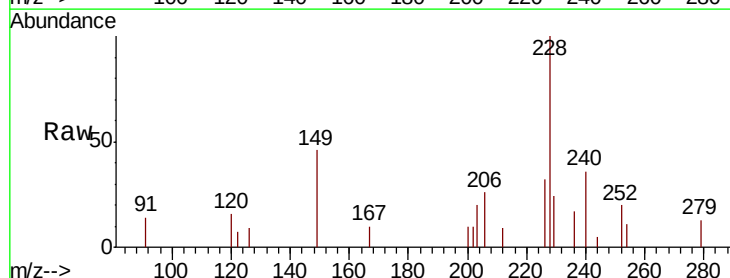
Tgt Ion:228 Resp: 1533

Ion Ratio Lower Upper

228 100

226 32.4 22.0 33.0

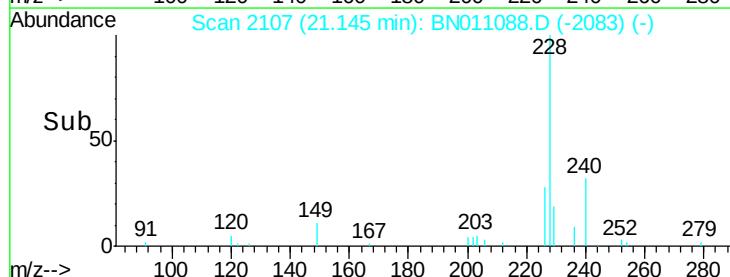
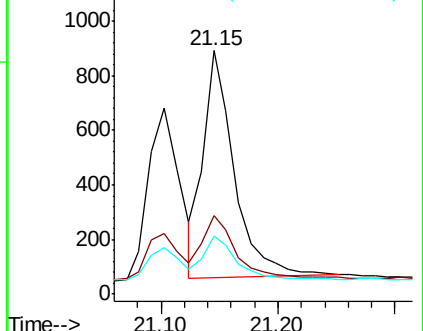
229 23.7 16.1 24.1

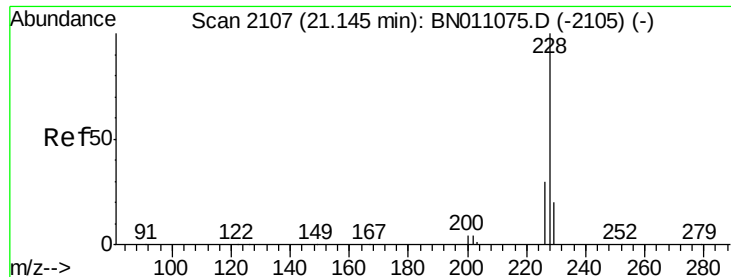


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Chrysene

Concen: 0.092 ng

RT: 21.15 min Scan# 2107

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

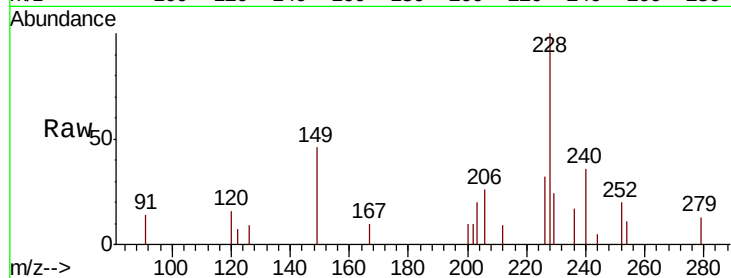
Tot Ion:228 Resp: 1521

Ion Ratio Lower Upper

228 100

226 32.4 24.0 36.0

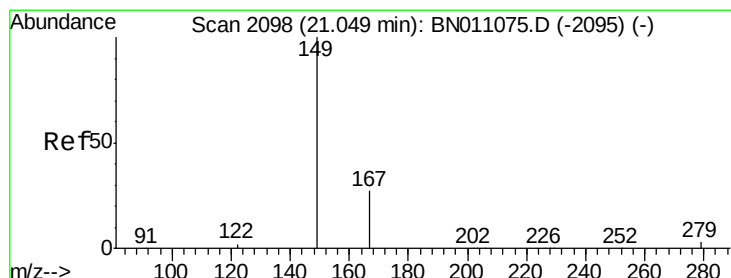
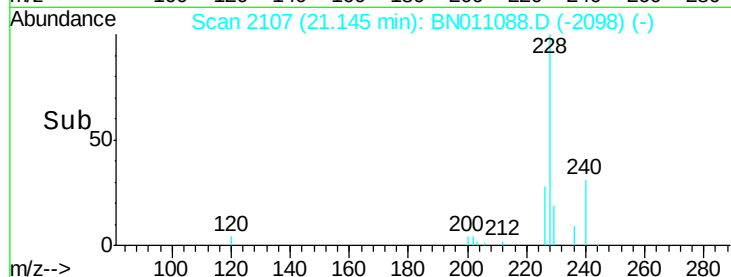
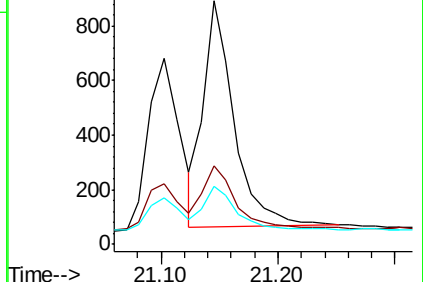
229 23.7 16.4 24.6



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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.135 ng

RT: 21.05 min Scan# 2098

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

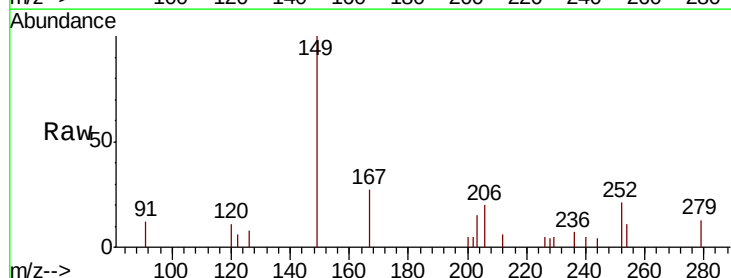
Tgt Ion:149 Resp: 788

Ion Ratio Lower Upper

149 100

167 29.1 22.2 33.4

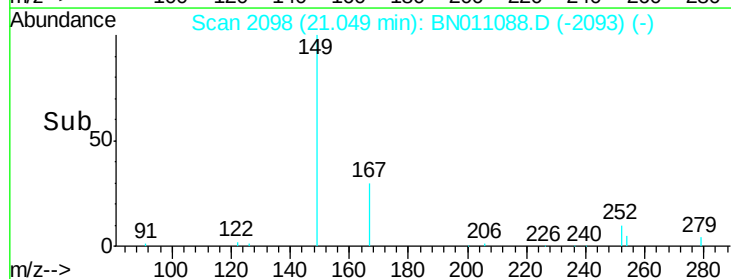
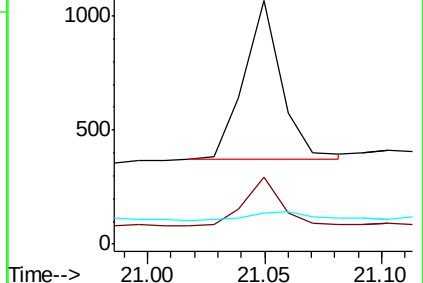
279 8.2 4.5 6.7#

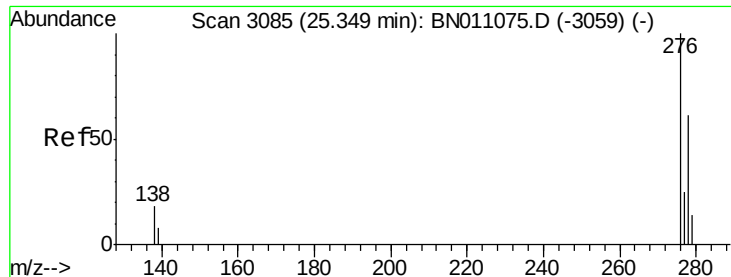


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

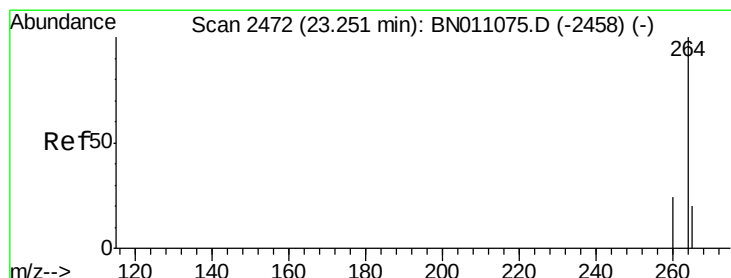
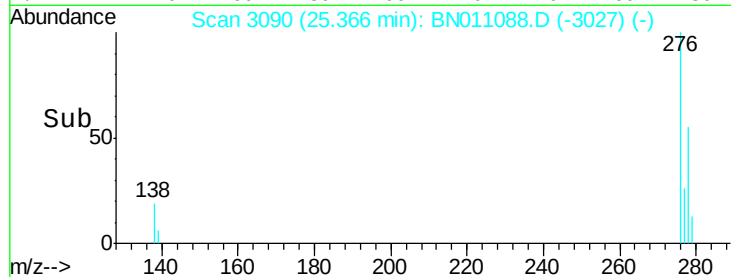
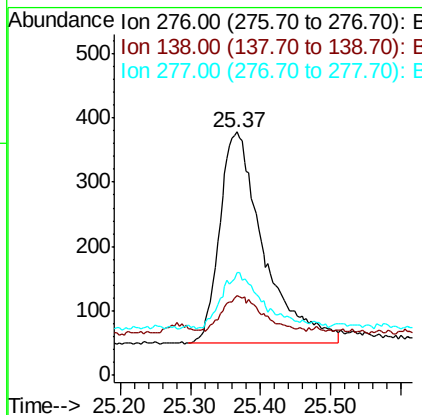
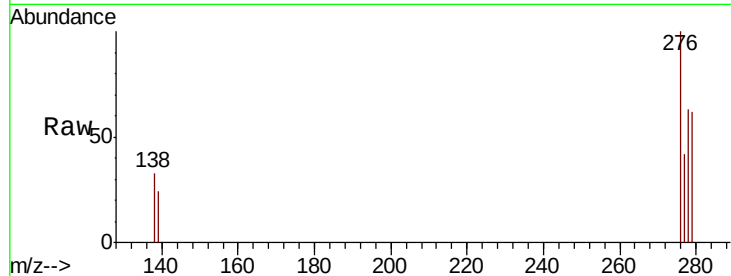




#35
 Indeno(1,2,3-cd)pyrene
 Concen: 0.082 ng
 RT: 25.37 min Scan# 3090
 Delta R.T. 0.02 min
 Lab File: BN011088.D
 Acq: 02 Jul 2020 16:30

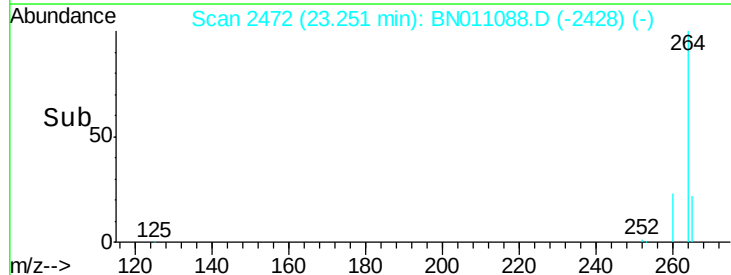
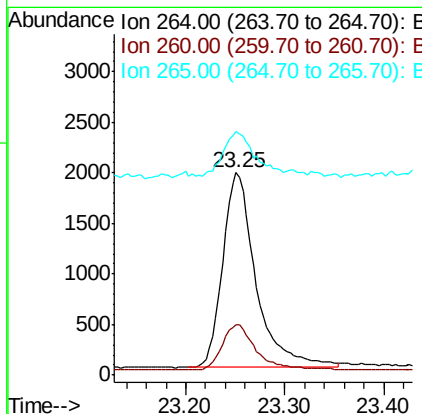
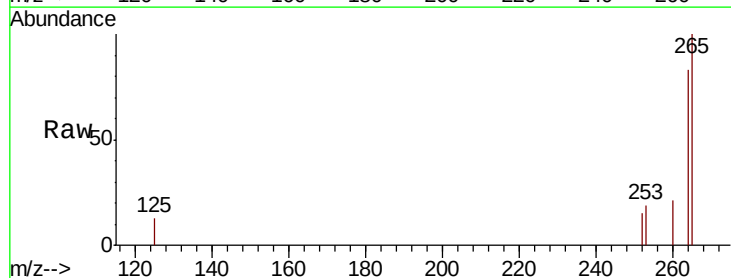
Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-03

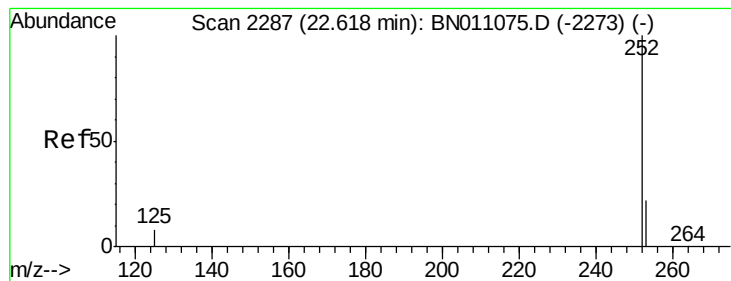
Tot Ion:276 Resp: 1423
 Ion Ratio Lower Upper
 276 100
 138 15.2 15.4 23.0#
 277 23.5 19.4 29.0



#36
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.25 min Scan# 2472
 Delta R.T. -0.00 min
 Lab File: BN011088.D
 Acq: 02 Jul 2020 16:30

Tgt Ion:264 Resp: 4505
 Ion Ratio Lower Upper
 264 100
 260 25.1 20.4 30.6
 265 120.2 83.0 124.6





#37

Benzo(b)fluoranthene

Concen: 0.078 ng

RT: 22.62 min Scan# 2289

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

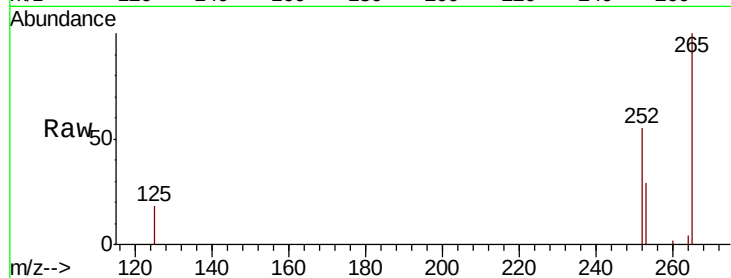
Tot Ion:252 Resp: 1412

Ion Ratio Lower Upper

252 100

253 54.1 22.7 34.1#

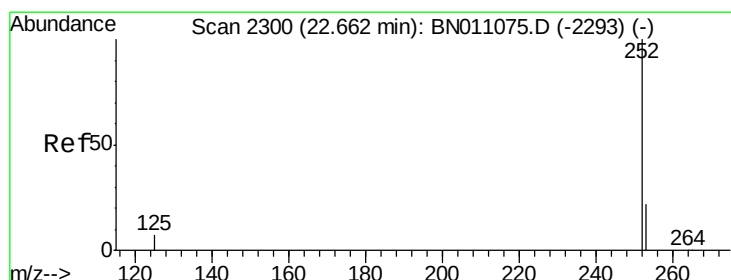
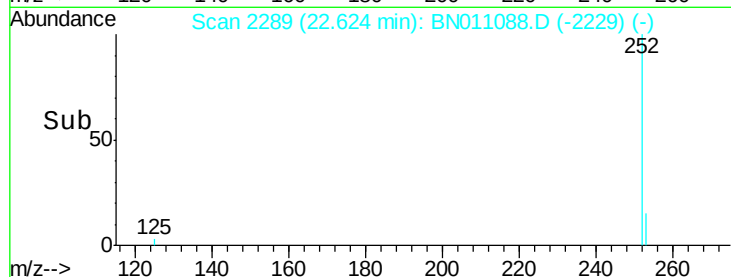
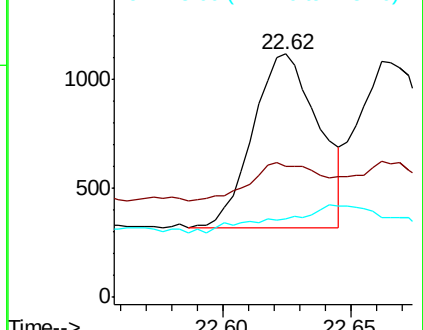
125 32.4 10.4 15.6#



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

Benzo(k)fluoranthene

Concen: 0.087 ng

RT: 22.66 min Scan# 2300

Delta R.T. 0.00 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

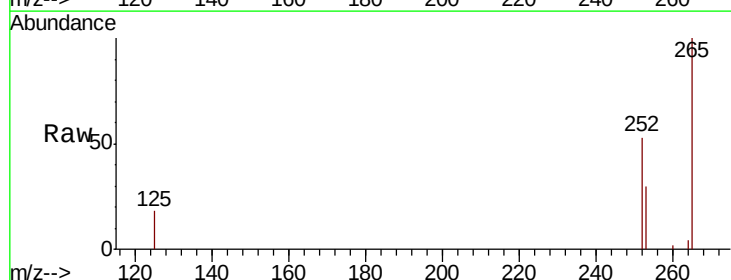
Tgt Ion:252 Resp: 1672

Ion Ratio Lower Upper

252 100

253 57.8 22.9 34.3#

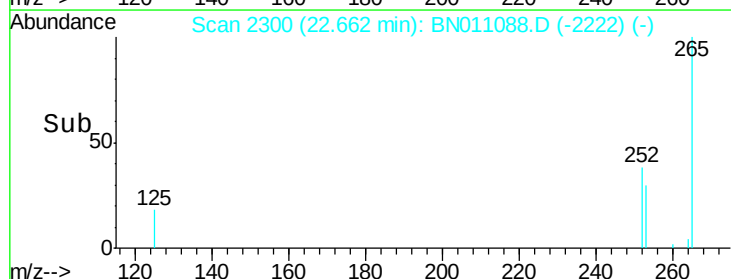
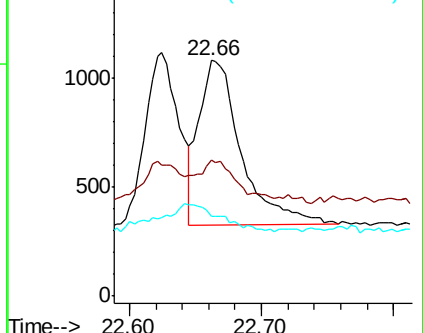
125 33.8 10.6 15.8#

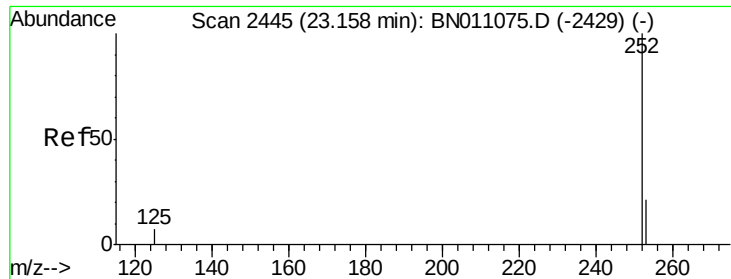


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a)pyrene

Concen: 0.081 ng

RT: 23.17 min Scan# 2448

Delta R.T. 0.01 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

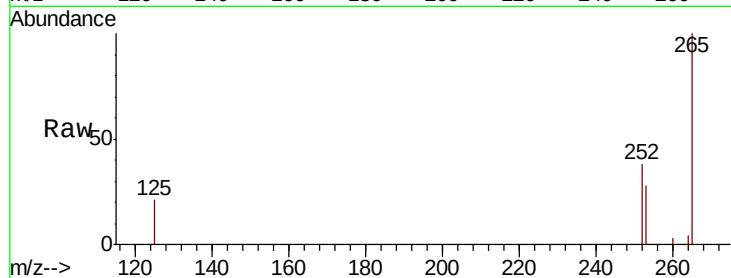
Tot Ion:252 Resp: 1265

Ion Ratio Lower Upper

252 100

253 73.8 25.9 38.9#

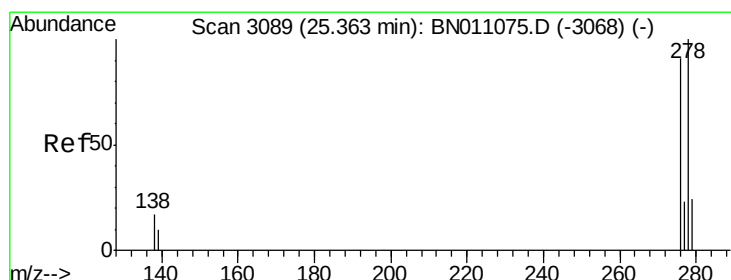
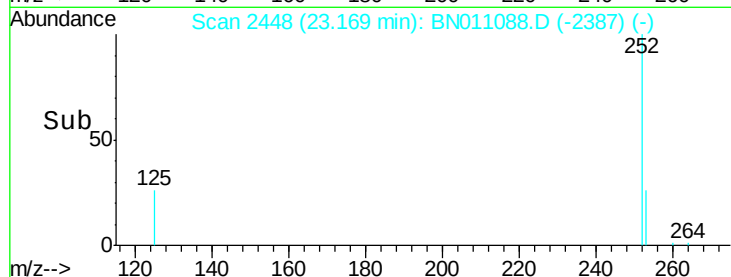
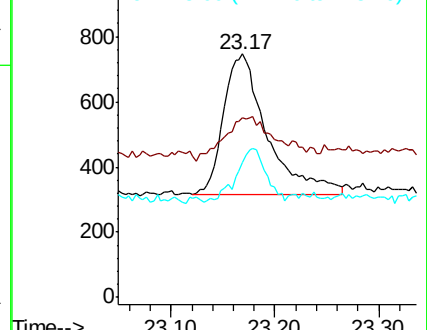
125 55.6 12.5 18.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#40

Dibenzo(a,h)anthracene

Concen: 0.063 ng

RT: 25.38 min Scan# 3095

Delta R.T. 0.02 min

Lab File: BN011088.D

Acq: 02 Jul 2020 16:30

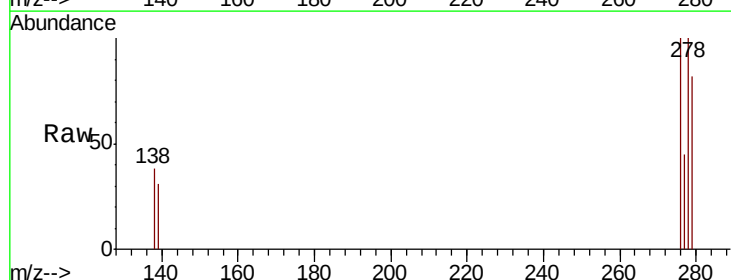
Tgt Ion:278 Resp: 1005

Ion Ratio Lower Upper

278 100

139 30.7 11.9 17.9#

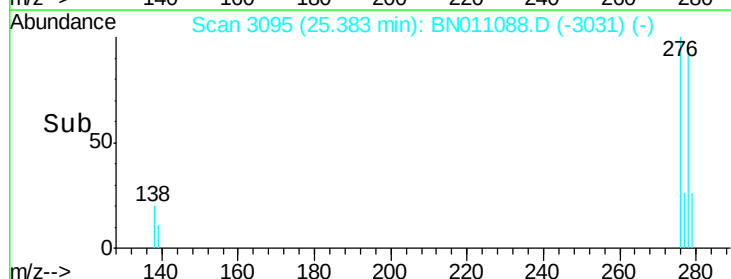
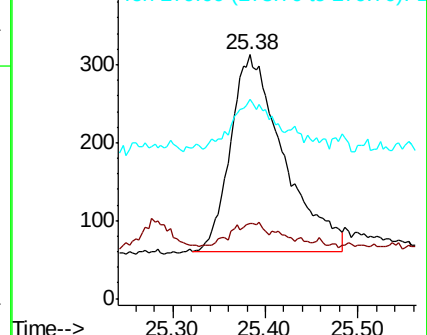
279 81.8 25.5 38.3#

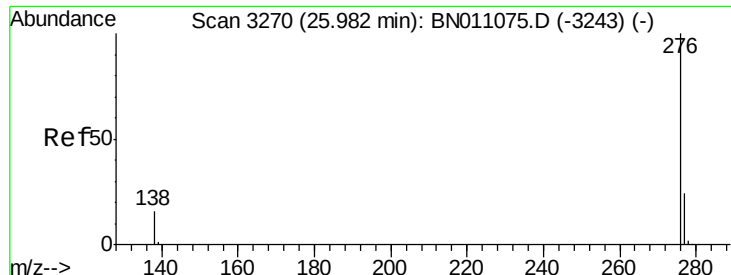


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#41

Benzo(a,h,i)perylene

Concen: 0.081 ng

RT: 25.99 min Scan# 3271

Delta R.T. 0.00 min

Lab File: BN011088.D

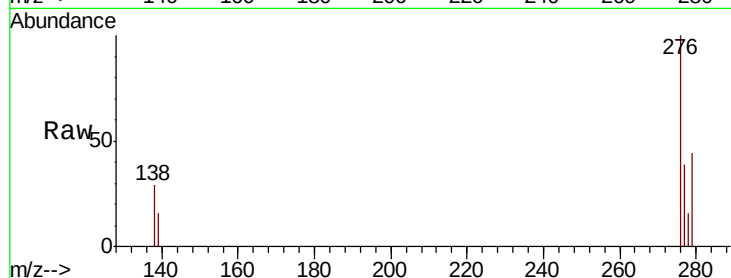
Acq: 02 Jul 2020 16:30

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03



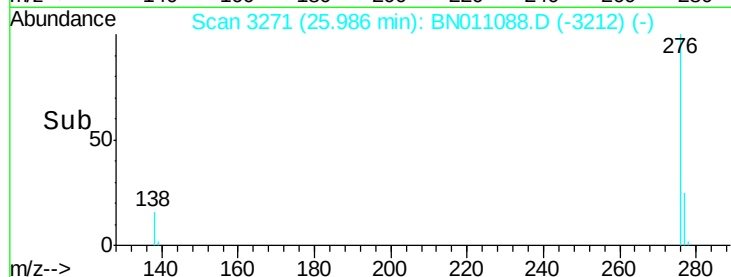
Tot Ion: 276 Resp: 1424

Ion Ratio Lower Upper

276 100

277 38.6 21.1 31.7#

138 29.2 15.0 22.6#



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

