

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN102618\
 Data File : BN003312.D
 Acq On : 26 Oct 2018 19:28
 Operator : MJ/SJ
 Sample : J5164-03
 Misc : 0.1 PPM MDL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Quant Time: Oct 27 00:42:51 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN102618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 26 15:17:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.87	152	12262	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	50743	0.40	ng	0.00
13) Acenaphthene-d10	14.50	164	29205	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	72181	0.40	ng	0.00
27) Chrysene-d12	21.42	240	76282	0.40	ng	0.00
34) Perylene-d12	23.74	264	70629	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.43	112	9336	0.31	ng	0.00
5) Phenol-d6	7.02	99	11499	0.30	ng	0.00
8) Nitrobenzene-d5	9.02	82	7970	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	12.25	152	24922	0.30	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	3055	0.26	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	43148	0.34	ng	-0.01
25) Fluoranthene-d10	19.26	212	60426	0.29	ng	0.00
29) Terphenyl-d14	19.87	244	57526	0.32	ng	0.00

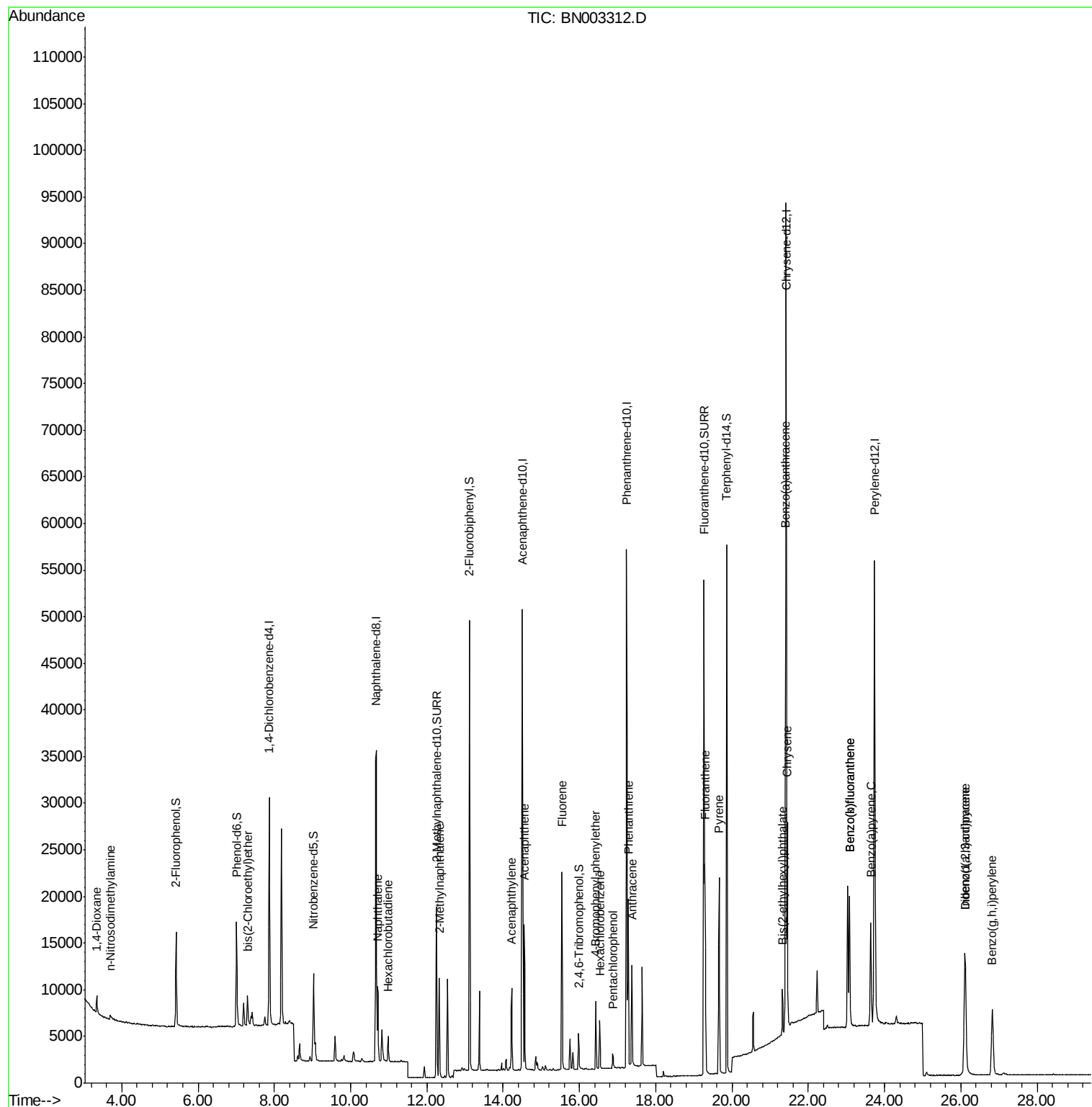
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.34	88	1473	0.093	ng	# 90
3) n-Nitrosodimethylamine	3.71	42	544	0.074	ng	# 76
6) bis(2-Chloroethyl)ether	7.30	93	2860	0.084	ng	93
9) Naphthalene	10.71	128	11288	0.091	ng	97
10) Hexachlorobutadiene	10.99	225	2099	0.093	ng	# 98
12) 2-Methylnaphthalene	12.32	142	7698	0.089	ng	99
16) Acenaphthylene	14.22	152	10232	0.079	ng	99
17) Acenaphthene	14.56	154	7868	0.087	ng	97
18) Fluorene	15.55	166	9821	0.087	ng	99
20) 4-Bromophenyl-phenylether	16.43	248	3586	0.086	ng	# 75
21) Hexachlorobenzene	16.54	284	4036	0.092	ng	99
22) Pentachlorophenol	16.88	266	836	0.070	ng	95
23) Phenanthrene	17.28	178	17568	0.089	ng	99
24) Anthracene	17.38	178	13299	0.078	ng	100
26) Fluoranthene	19.29	202	19626	0.086	ng	99
28) Pyrene	19.66	202	19230	0.091	ng	99
30) Benzo(a)anthracene	21.41	228	16066	0.080	ng	100
31) Chrysene	21.45	228	19971	0.093	ng	97
32) Bis(2-ethylhexyl)phthalate	21.32	149	4701	0.079	ng	99
33) Indeno(1,2,3-cd)pyrene	26.10	276	18711	0.084	ng	97
35) Benzo(b)fluoranthene	23.08	252	18569	0.085	ng	96
36) Benzo(k)fluoranthene	23.08	252	18569	0.085	ng	# 90
37) Benzo(a)pyrene	23.64	252	16356	0.082	ng	92
38) Dibenzo(a,h)anthracene	26.12	278	15024	0.080	ng	93
39) Benzo(g,h,i)perylene	26.83	276	16274	0.087	ng	96

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

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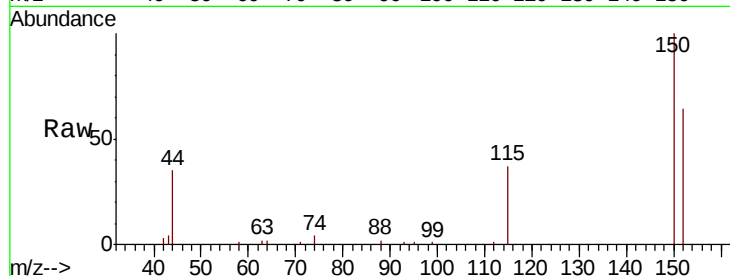


#1

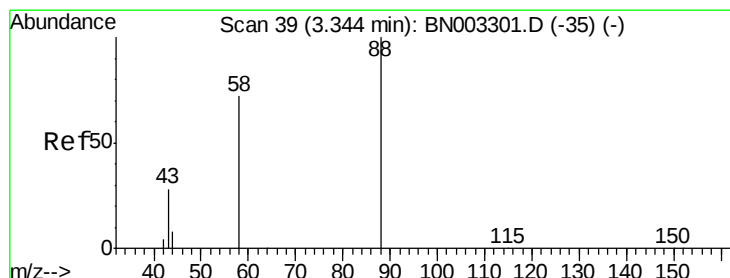
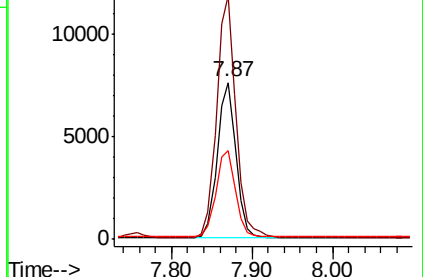
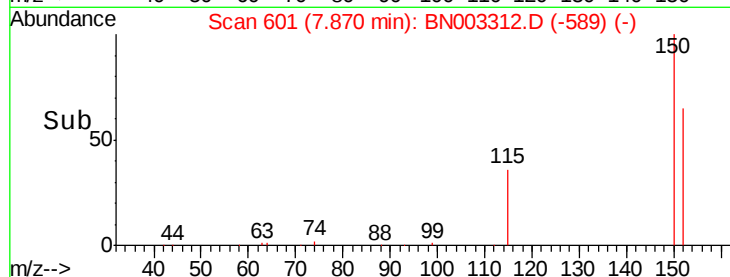
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.87 min Scan# 601
Delta R.T. -0.00 min
Lab File: BN003312.D
Acq: 26 Oct 2018 19:28

Instrument :
BNA_N
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 152 Resp: 12262
Ion Ratio Lower Upper
152 100
150 155.2 124.6 187.0
115 56.8 46.4 69.6



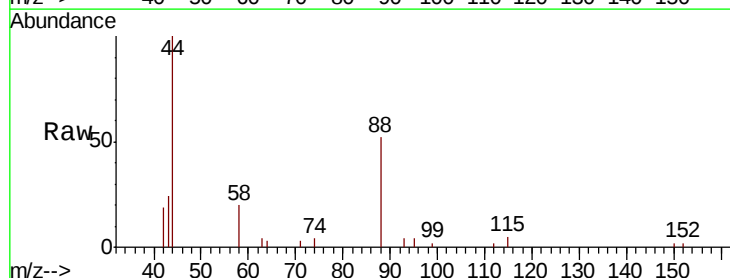
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



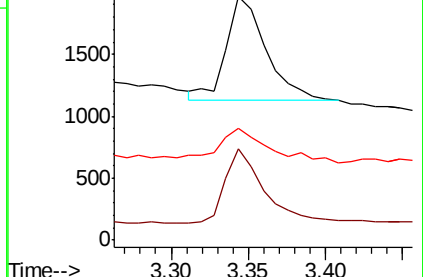
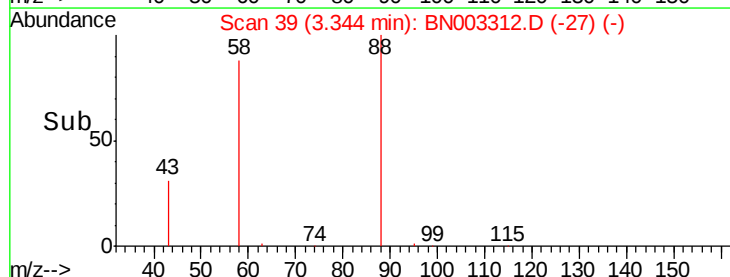
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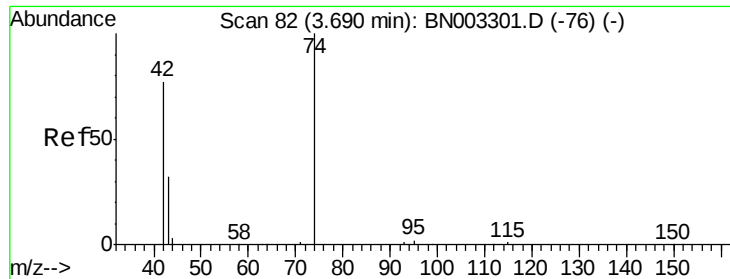
1,4-Dioxane
Concen: 0.093 ng
RT: 3.34 min Scan# 39
Delta R.T. -0.00 min
Lab File: BN003312.D
Acq: 26 Oct 2018 19:28

Tgt Ion: 88 Resp: 1473
Ion Ratio Lower Upper
88 100
58 72.2 60.9 91.3
43 42.6 23.9 35.9#



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: 0.074 ng

RT: 3.71 min Scan# 84

Delta R.T. 0.02 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

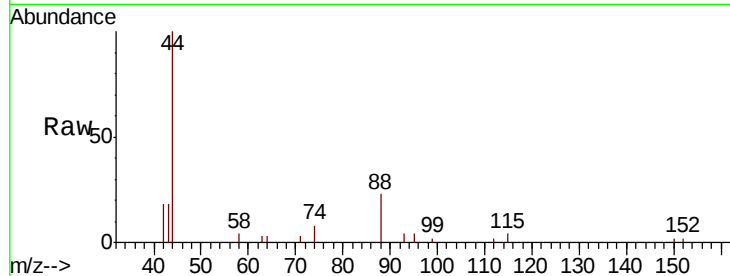
Tgt Ion: 42 Resp: 544

Ion Ratio Lower Upper

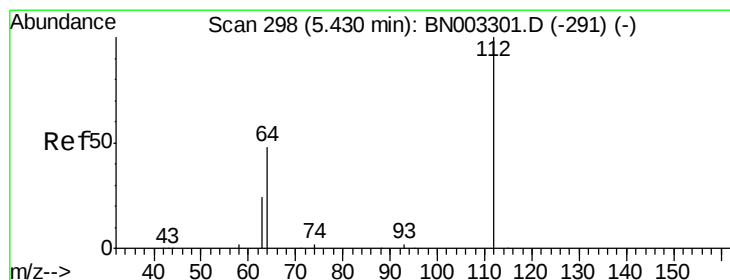
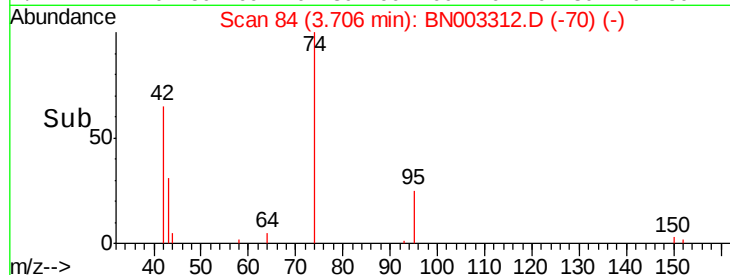
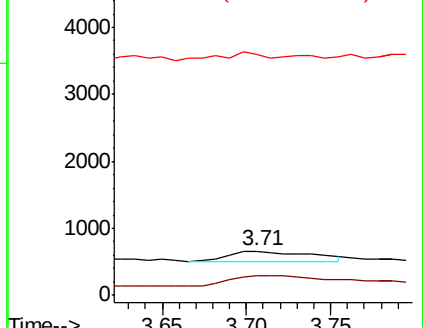
42 100

74 101.1 99.1 148.7

44 45.0 4.2 6.4#



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



#4

2-Fluorophenol

Concen: 0.307 ng

RT: 5.43 min Scan# 298

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

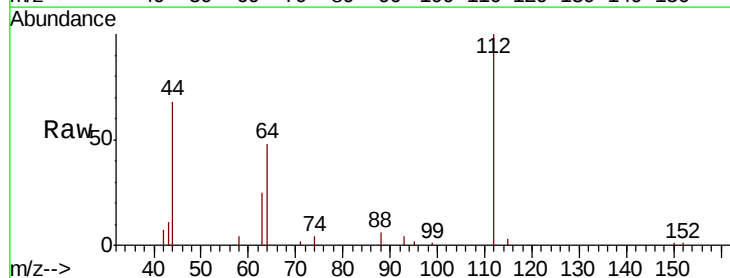
Tgt Ion: 112 Resp: 9336

Ion Ratio Lower Upper

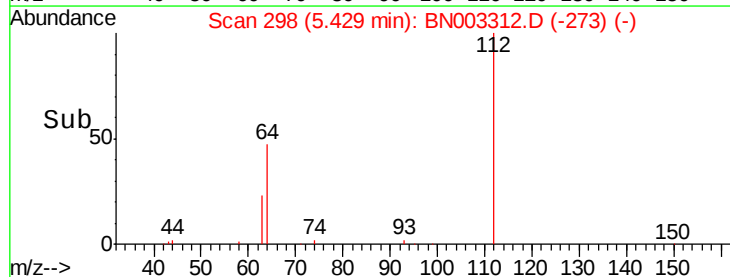
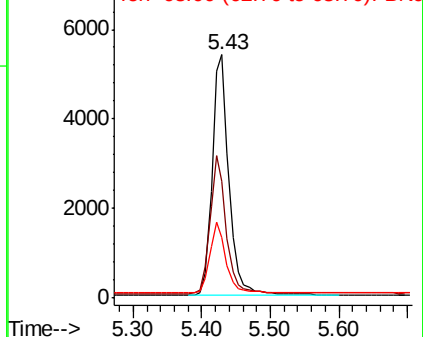
112 100

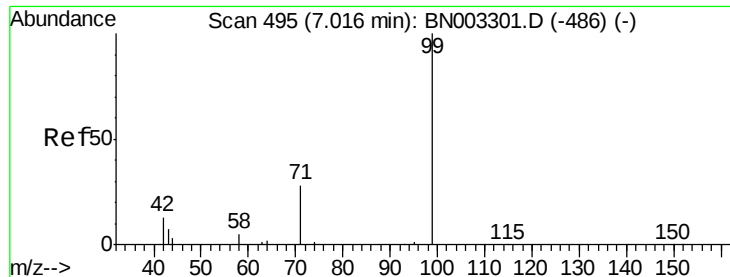
64 53.9 44.3 66.5

63 28.1 22.4 33.6



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: 0.300 ng

RT: 7.02 min Scan# 495

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

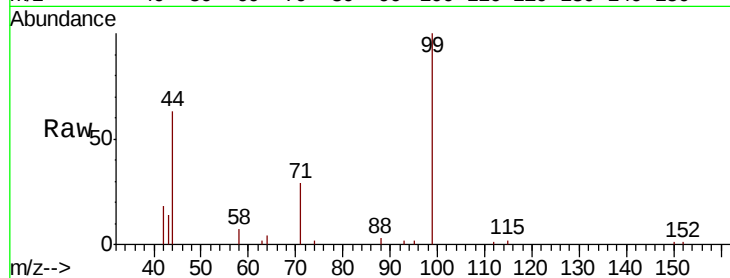
Tgt Ion: 99 Resp: 11499

Ion Ratio Lower Upper

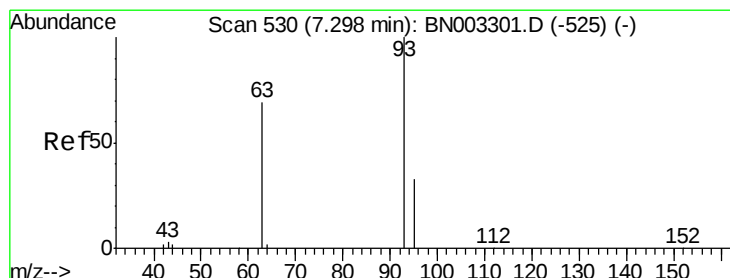
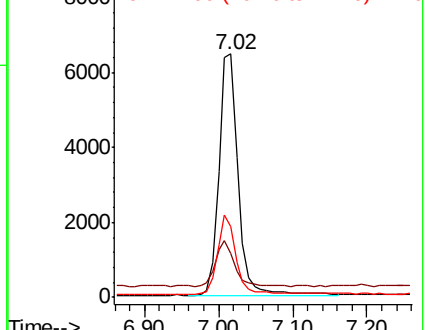
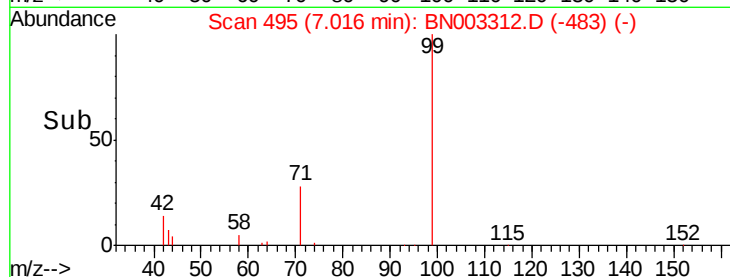
99 100

42 18.7 14.8 22.2

71 30.9 24.8 37.2



Abundance Ion 99.00 (98.70 to 99.70): BN003312.D (-483) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.084 ng

RT: 7.30 min Scan# 530

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

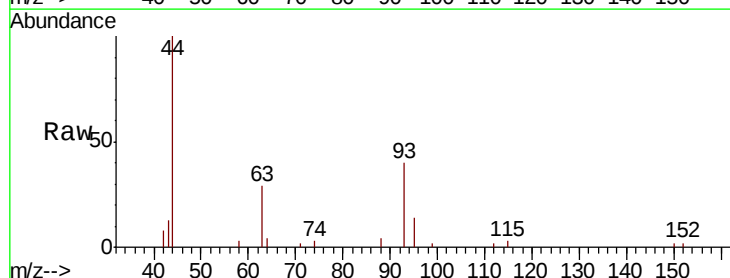
Tgt Ion: 93 Resp: 2860

Ion Ratio Lower Upper

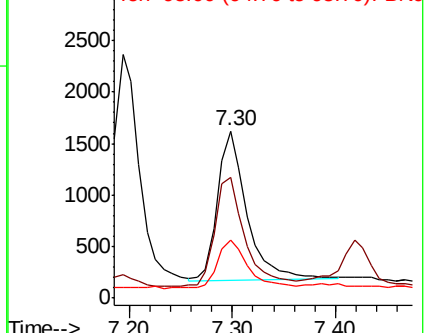
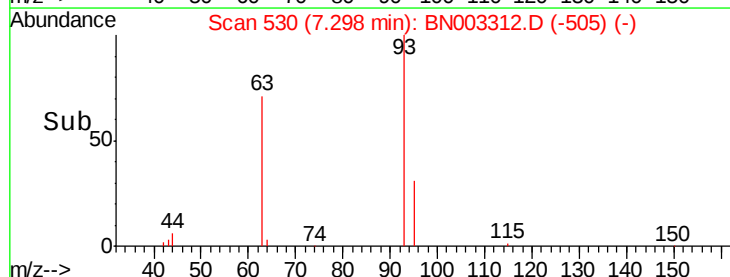
93 100

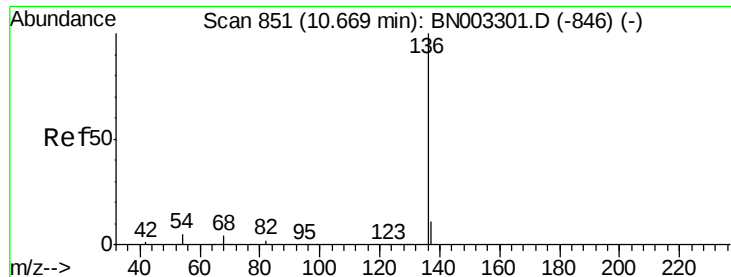
63 75.8 55.8 83.6

95 34.8 25.4 38.2



Abundance Ion 93.00 (92.70 to 93.70): BN003312.D (-505) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 851

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:136 Resp: 50743

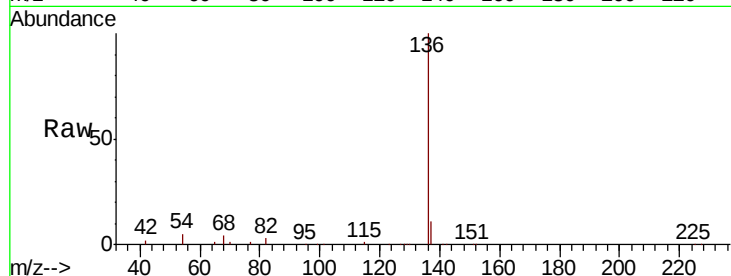
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 5.0 4.1 6.1

68 4.2 3.5 5.3

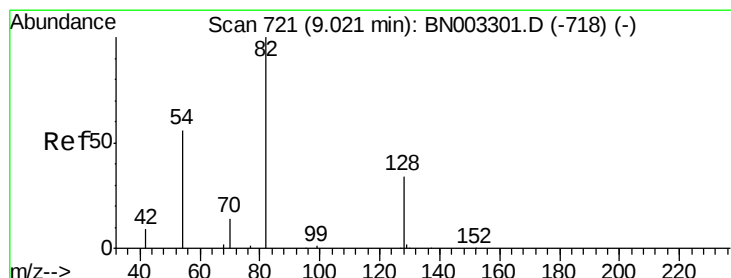
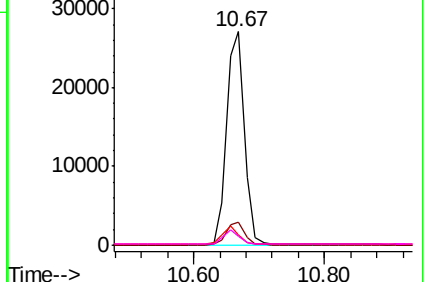
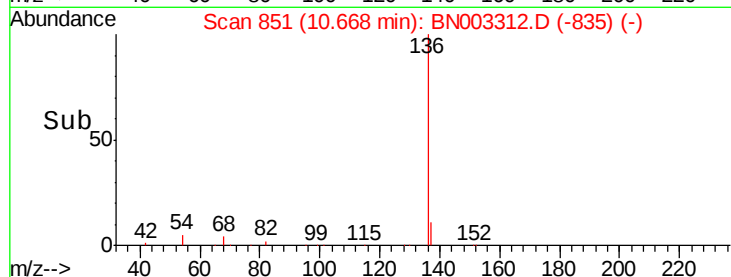


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.359 ng

RT: 9.02 min Scan# 721

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

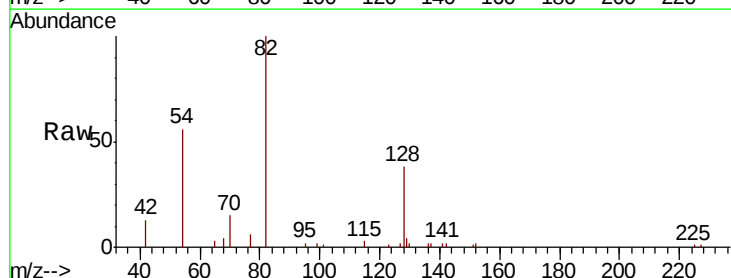
Tgt Ion: 82 Resp: 7970

Ion Ratio Lower Upper

82 100

128 37.8 28.9 43.3

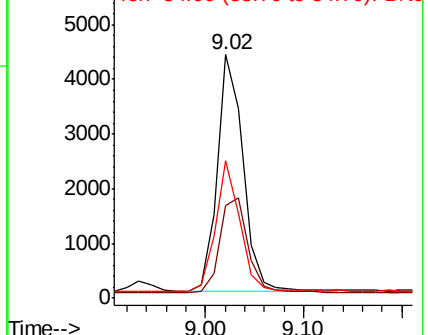
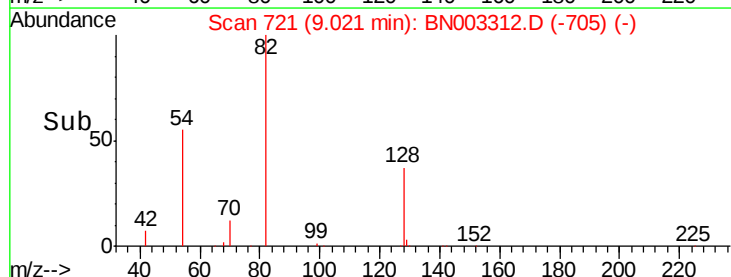
54 56.2 46.1 69.1

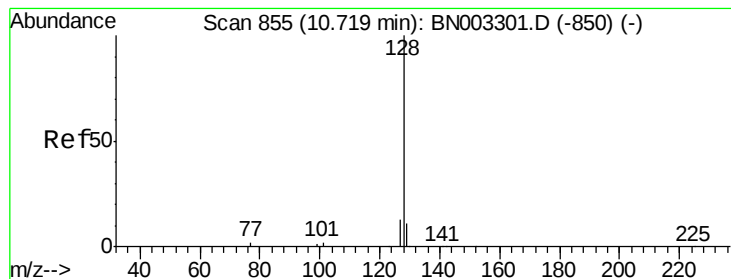


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.091 ng

RT: 10.71 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

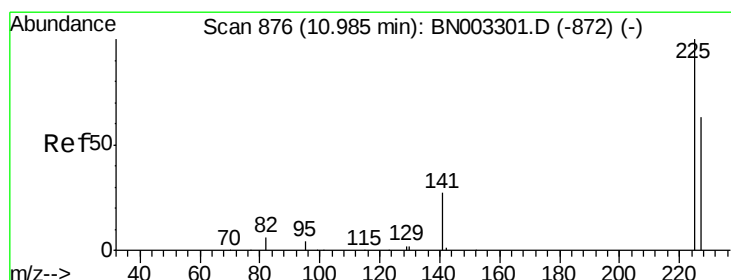
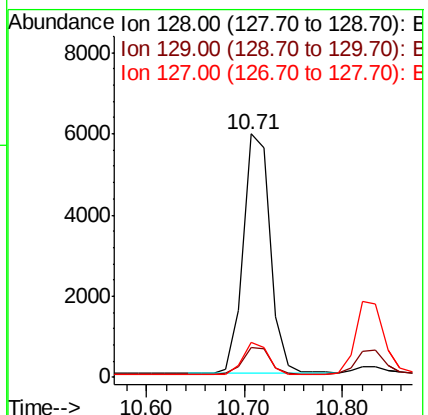
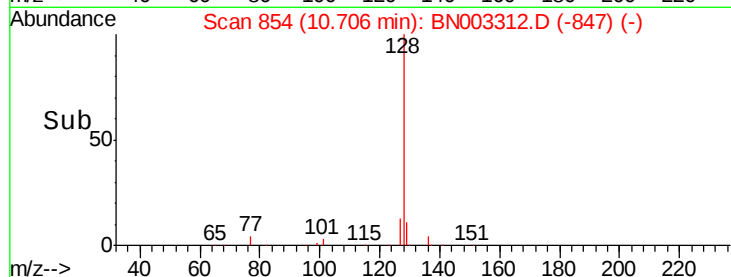
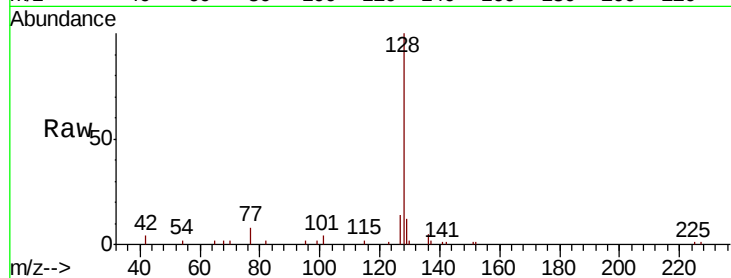
Tgt Ion:128 Resp: 11288

Ion Ratio Lower Upper

128 100

129 12.2 9.1 13.7

127 14.3 10.2 15.4



#10

Hexachlorobutadiene

Concen: 0.093 ng

RT: 10.99 min Scan# 876

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

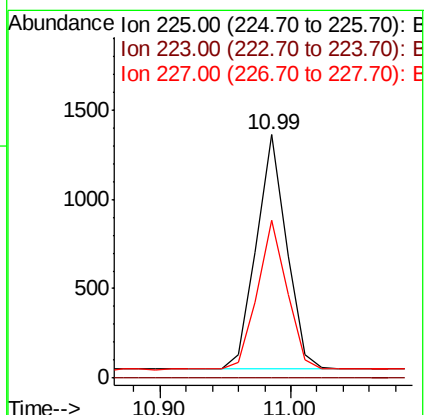
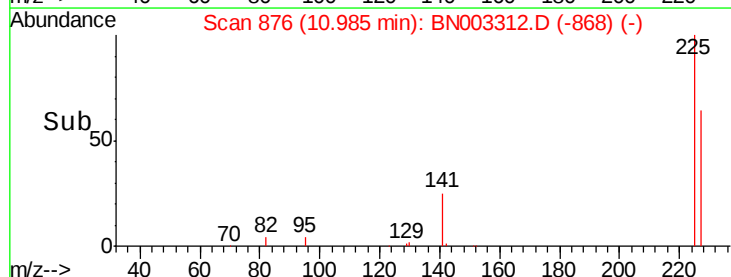
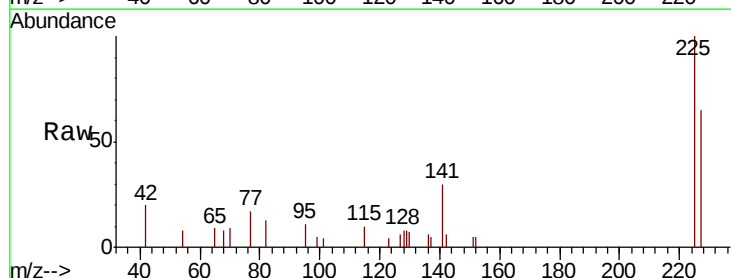
Tgt Ion:225 Resp: 2099

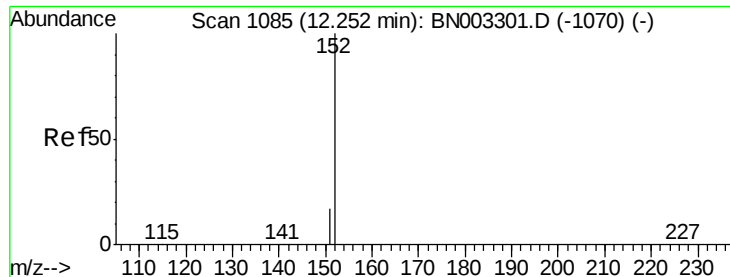
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.8 51.3 76.9

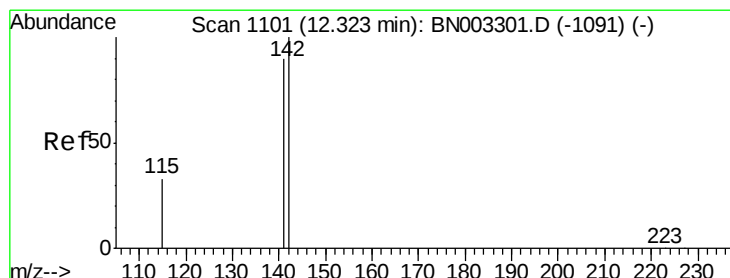
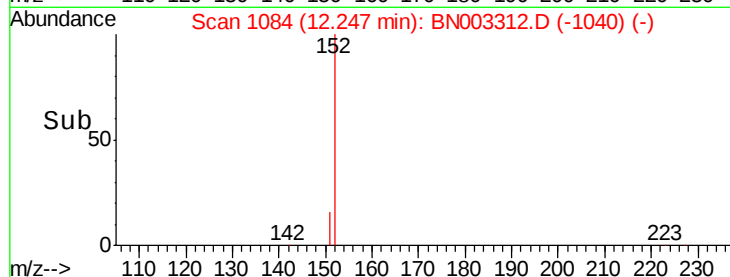
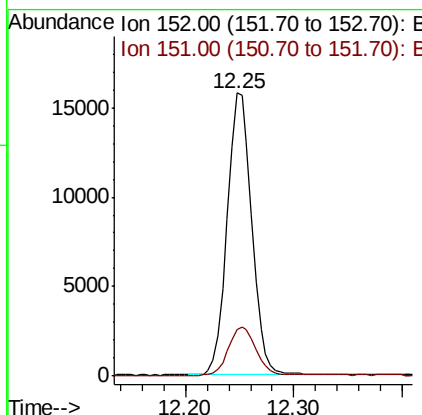
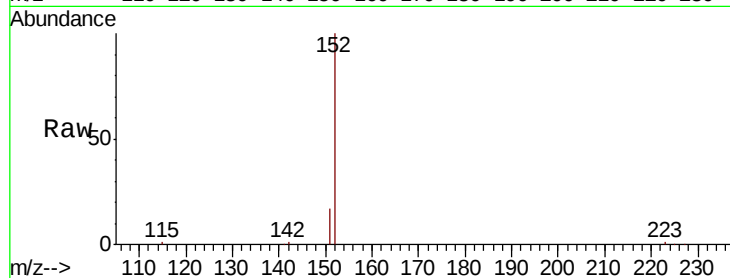




#11
 2-Methylnaphthalene-d10
 Concen: 0.302 ng
 RT: 12.25 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: BN003312.D
 Acq: 26 Oct 2018 19:28

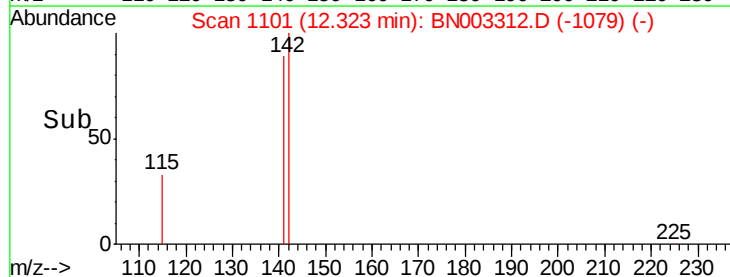
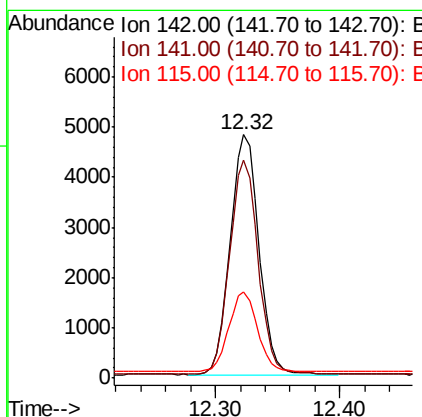
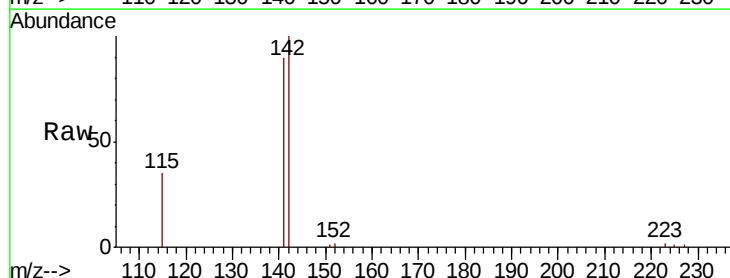
Instrument :
 BNA_N
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

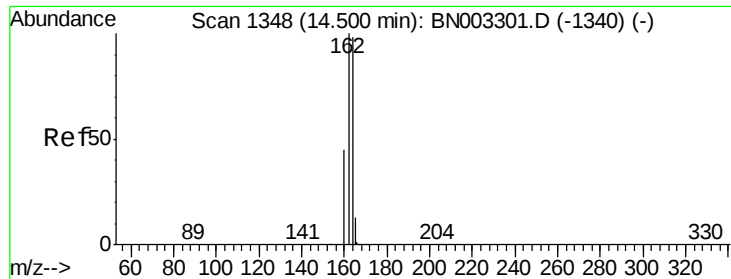
Tgt Ion:152 Resp: 24922
 Ion Ratio Lower Upper
 152 100
 151 19.0 15.1 22.7



#12
 2-Methylnaphthalene
 Concen: 0.089 ng
 RT: 12.32 min Scan# 1101
 Delta R.T. -0.00 min
 Lab File: BN003312.D
 Acq: 26 Oct 2018 19:28

Tgt Ion:142 Resp: 7698
 Ion Ratio Lower Upper
 142 100
 141 89.7 71.9 107.9
 115 35.3 27.0 40.6

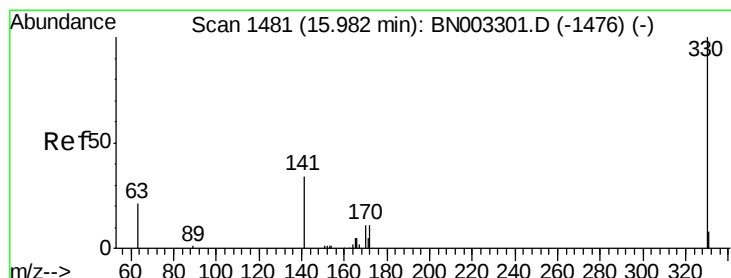
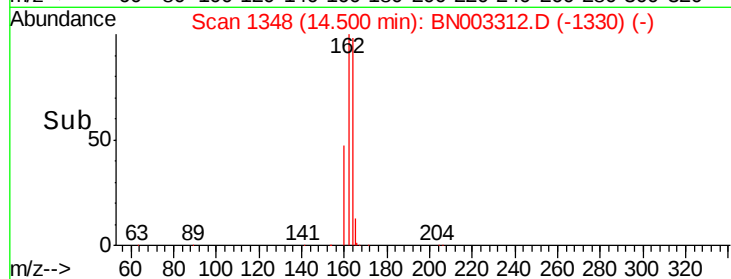
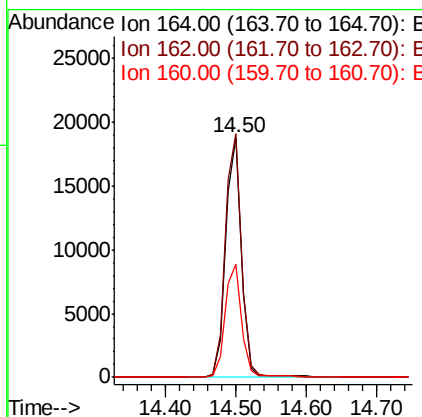
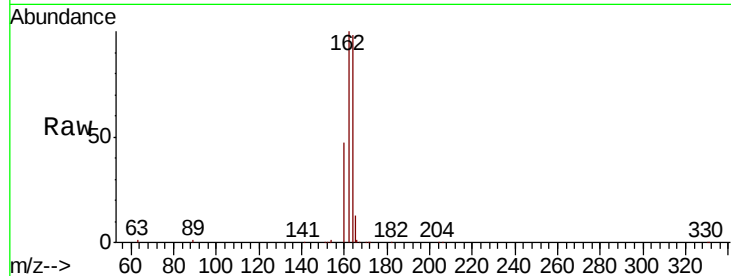




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.50 min Scan# 1348
Delta R.T. -0.00 min
Lab File: BN003312.D
Acq: 26 Oct 2018 19:28

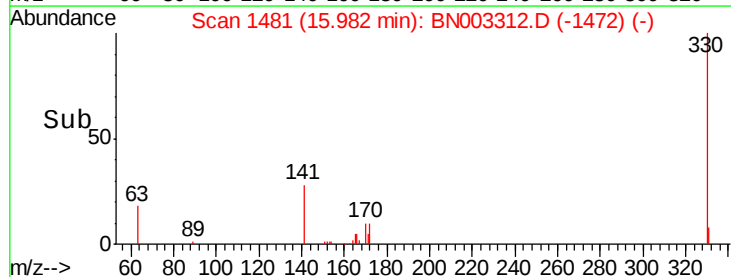
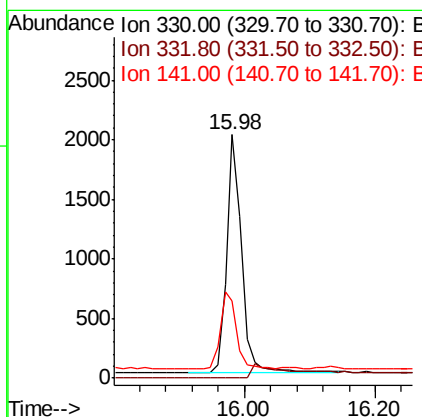
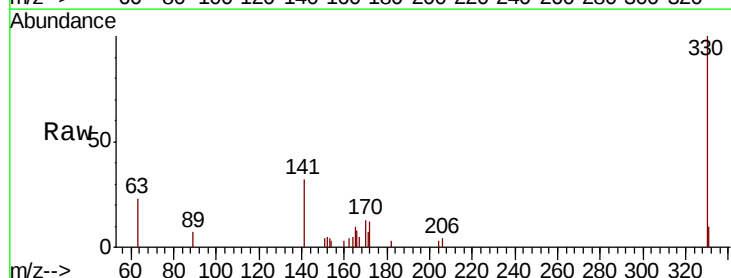
Instrument :
BNA_N
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

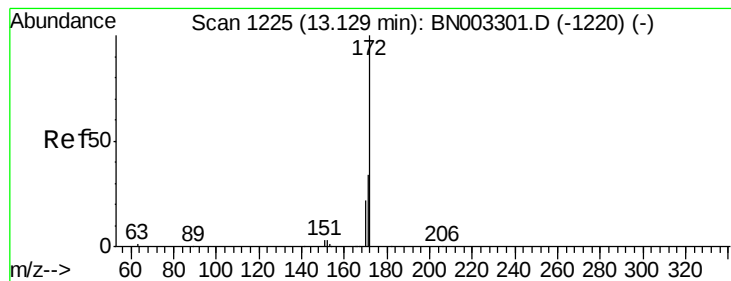
Tgt Ion:164 Resp: 29205
Ion Ratio Lower Upper
164 100
162 101.6 81.8 122.6
160 47.4 37.2 55.8



#14
2,4,6-Tribromophenol
Concen: 0.263 ng
RT: 15.98 min Scan# 1481
Delta R.T. -0.00 min
Lab File: BN003312.D
Acq: 26 Oct 2018 19:28

Tgt Ion:330 Resp: 3055
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 36.2 28.3 42.5





#15

2-Fluorobiphenyl

Concen: 0.343 ng

RT: 13.12 min Scan# 1224

Delta R.T. -0.01 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

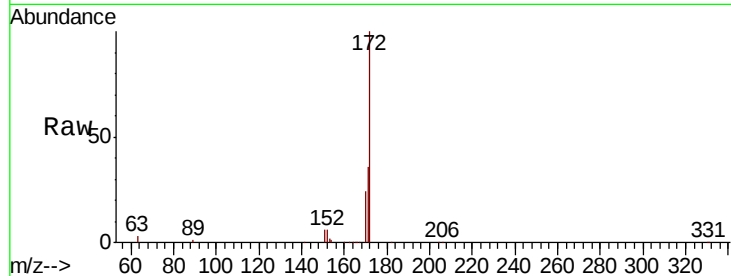
Tgt Ion:172 Resp: 43148

Ion Ratio Lower Upper

172 100

171 35.8 27.1 40.7

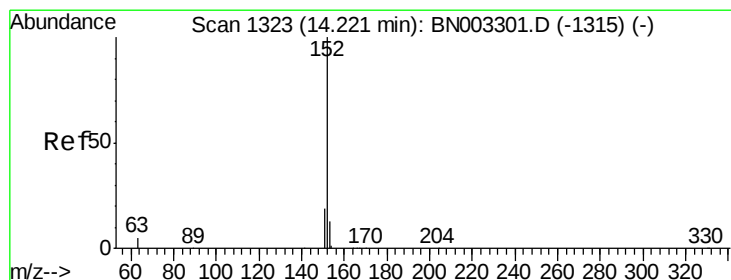
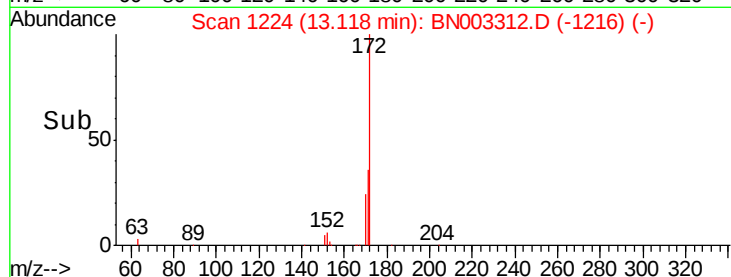
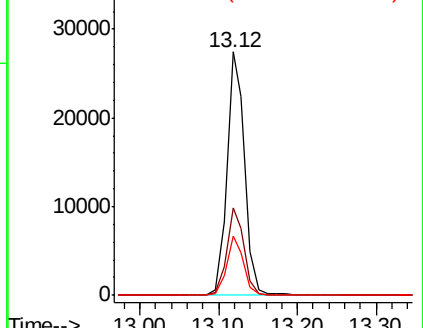
170 24.2 17.4 26.0



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: 0.079 ng

RT: 14.22 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

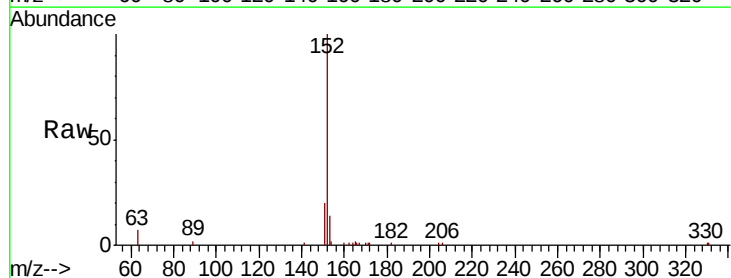
Tgt Ion:152 Resp: 10232

Ion Ratio Lower Upper

152 100

151 19.5 15.7 23.5

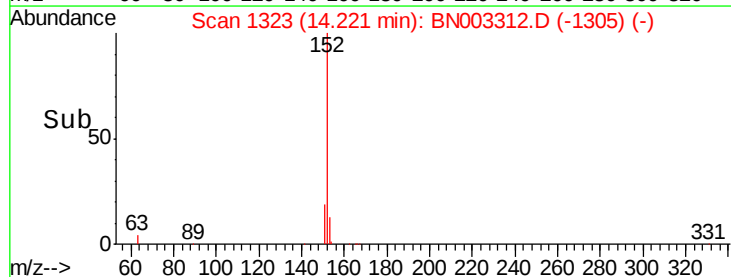
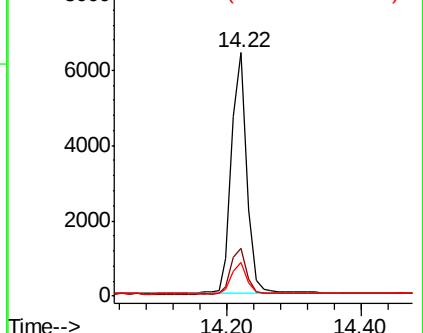
153 12.7 10.6 15.8

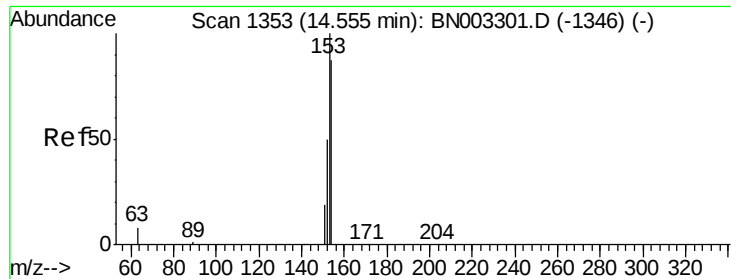


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.087 ng

RT: 14.56 min Scan# 1353

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

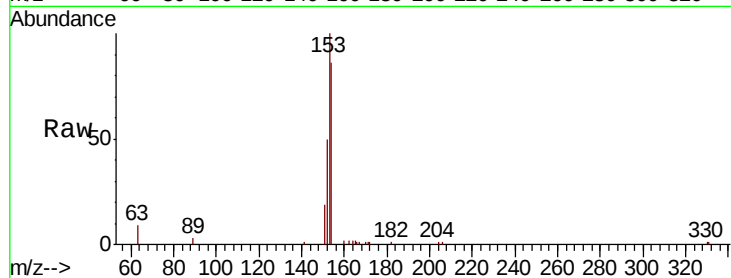
Tgt Ion:154 Resp: 7868

Ion Ratio Lower Upper

154 100

153 114.2 88.9 133.3

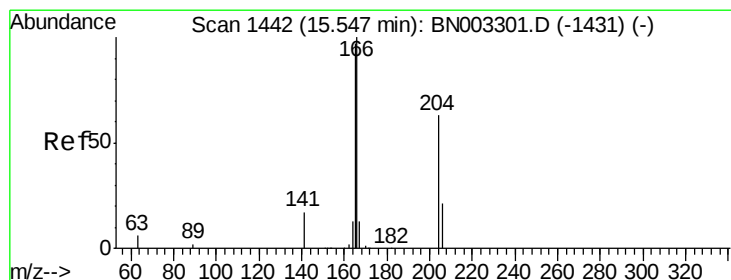
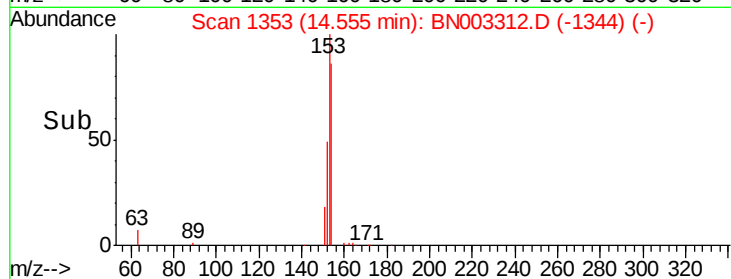
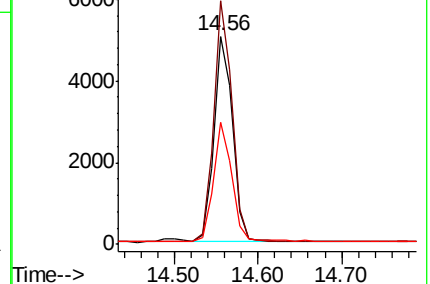
152 57.1 43.5 65.3



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: 0.087 ng

RT: 15.55 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

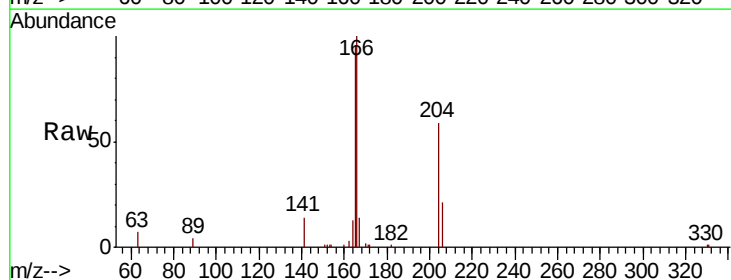
Tgt Ion:166 Resp: 9821

Ion Ratio Lower Upper

166 100

165 98.7 77.8 116.8

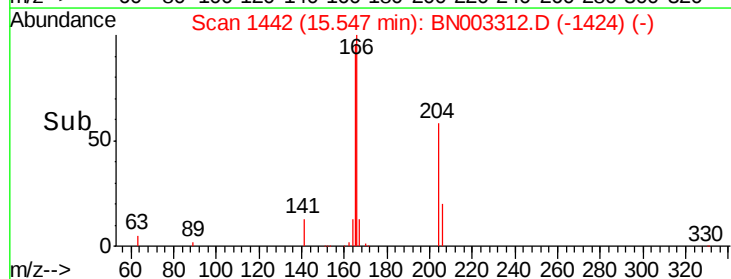
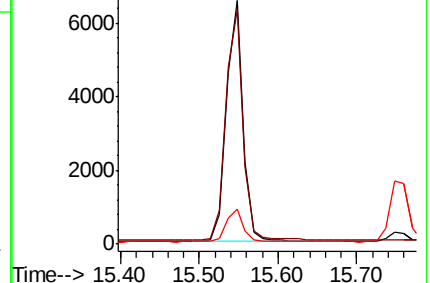
167 13.7 10.9 16.3

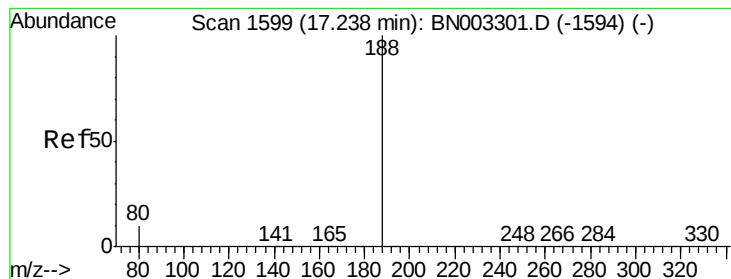


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.24 min Scan# 1599

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

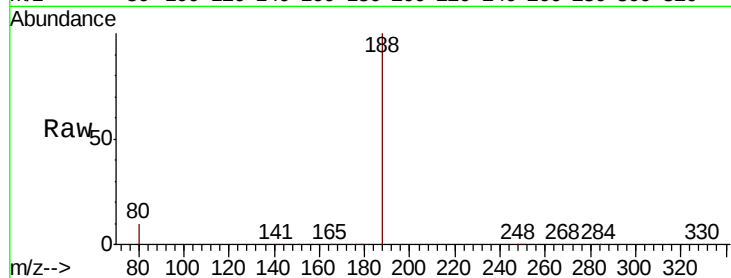
Tgt Ion:188 Resp: 72181

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

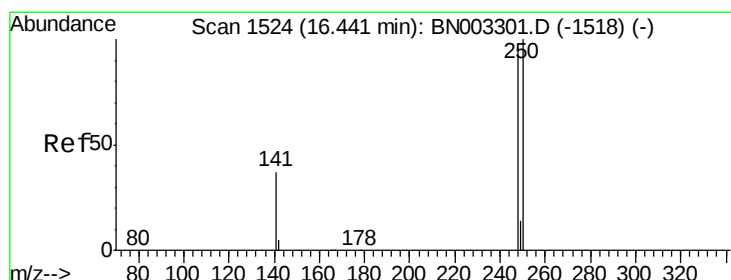
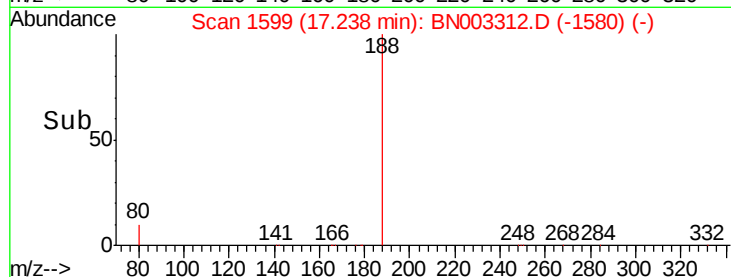
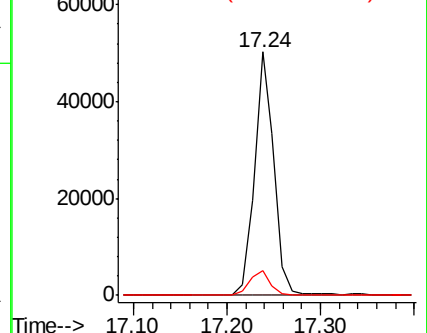
80 10.3 8.6 12.8



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



#20

4-Bromophenyl-phenylether

Concen: 0.086 ng

RT: 16.43 min Scan# 1523

Delta R.T. -0.01 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

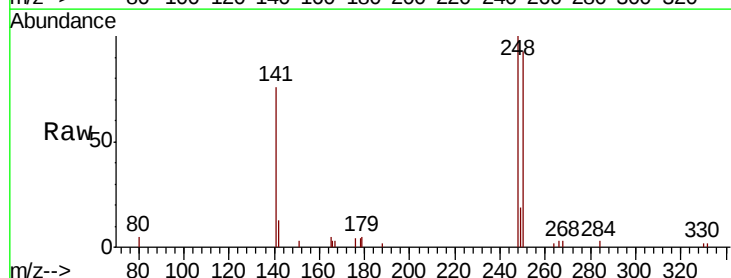
Tgt Ion:248 Resp: 3586

Ion Ratio Lower Upper

248 100

250 93.4 83.7 125.5

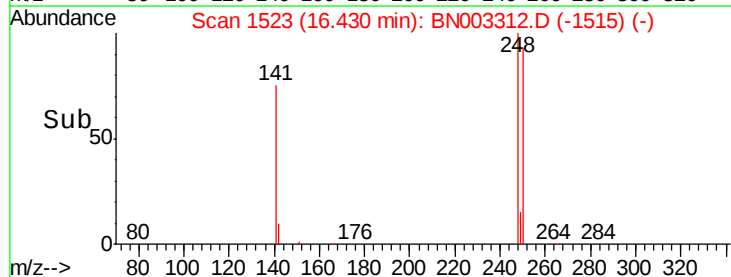
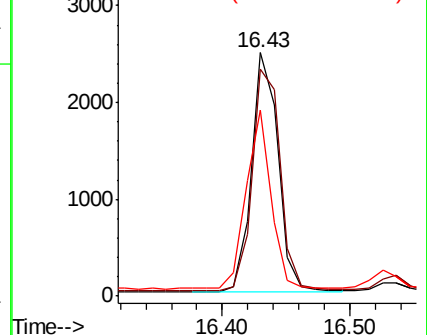
141 76.4 31.4 47.0#

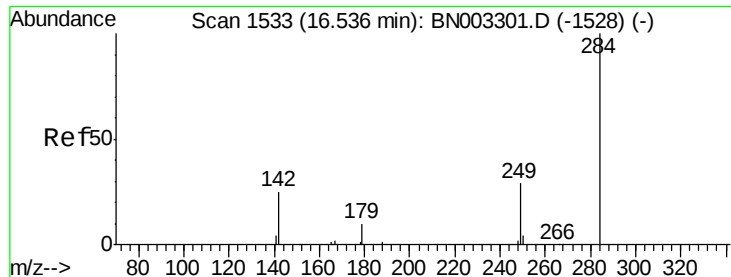


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.092 ng

RT: 16.54 min Scan# 1533

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

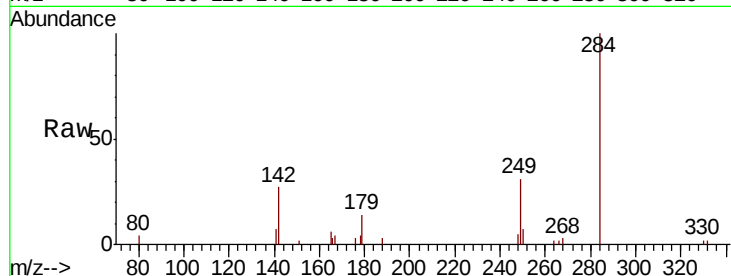
Instrument :

BNA_N

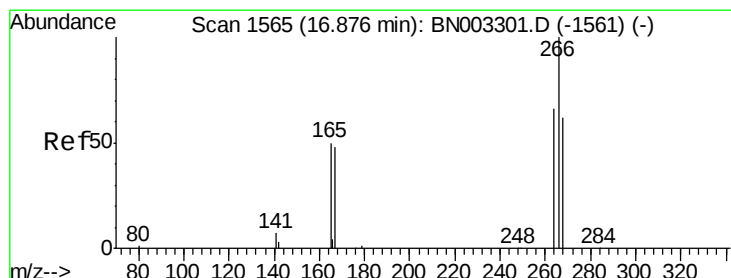
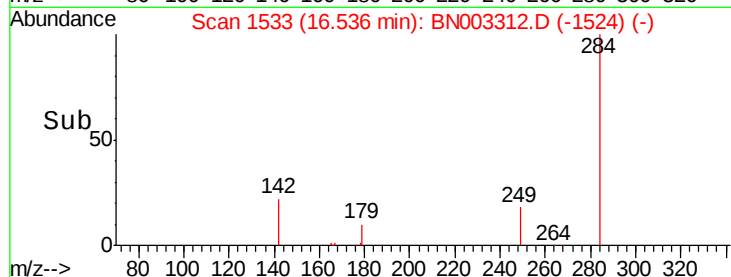
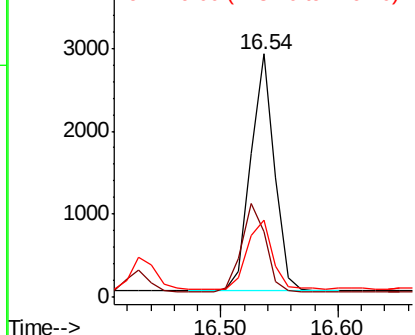
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:	284	Resp:	4036
Ion	Ratio	Lower	Upper
284	100		
142	38.0	29.7	44.5
249	30.6	24.0	36.0



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



#22

Pentachlorophenol

Concen: 0.070 ng

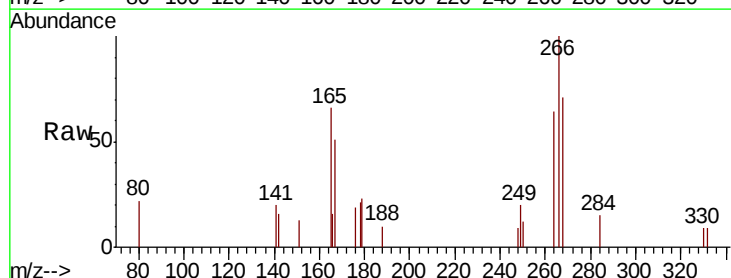
RT: 16.88 min Scan# 1565

Delta R.T. -0.00 min

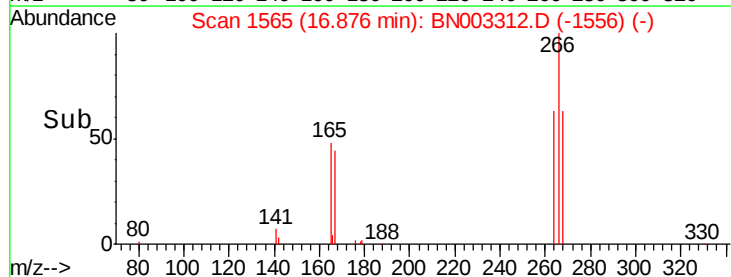
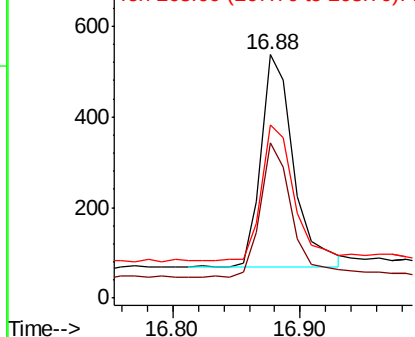
Lab File: BN003312.D

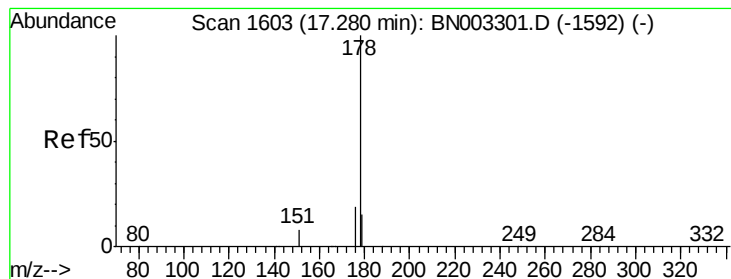
Acq: 26 Oct 2018 19:28

Tgt Ion:	266	Resp:	836
Ion	Ratio	Lower	Upper
266	100		
264	63.7	52.1	78.1
268	70.9	51.8	77.6



Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.089 ng

RT: 17.28 min Scan# 1603

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

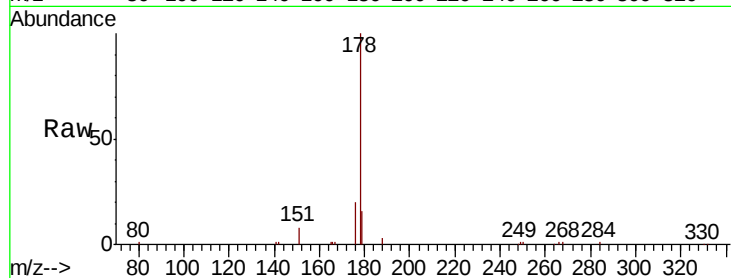
Tgt Ion:178 Resp: 17568

Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

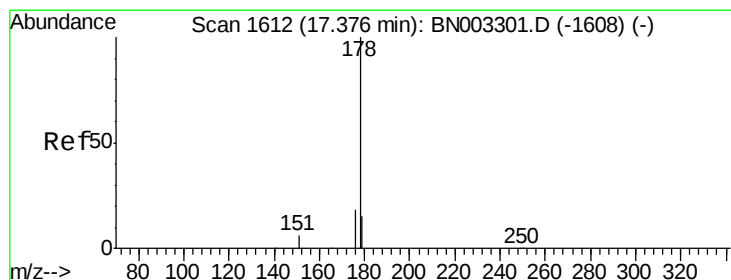
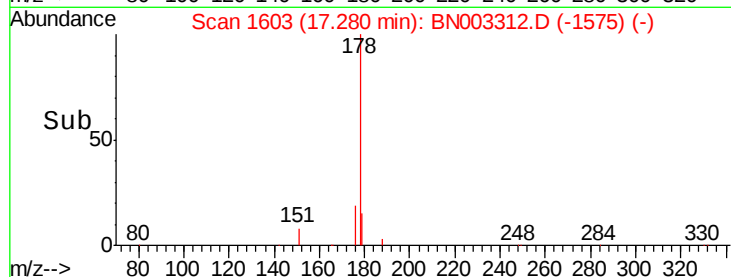
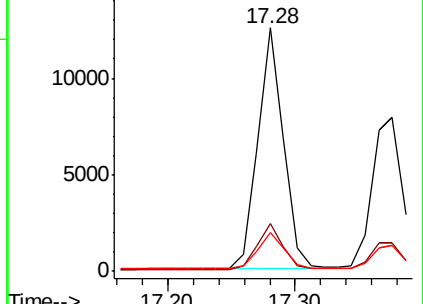
179 15.8 12.4 18.6



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: 0.078 ng

RT: 17.38 min Scan# 1612

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

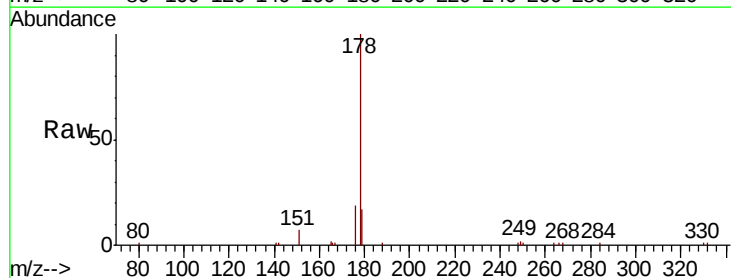
Tgt Ion:178 Resp: 13299

Ion Ratio Lower Upper

178 100

176 18.1 14.5 21.7

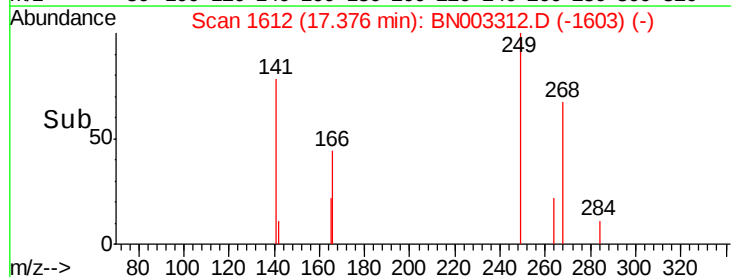
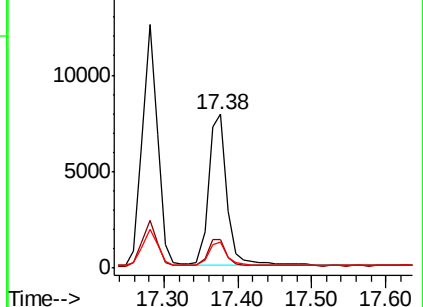
179 15.5 12.2 18.4

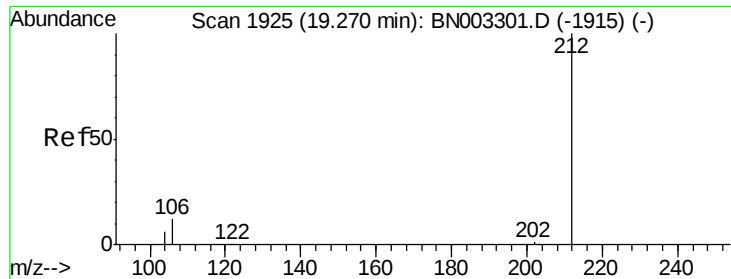


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

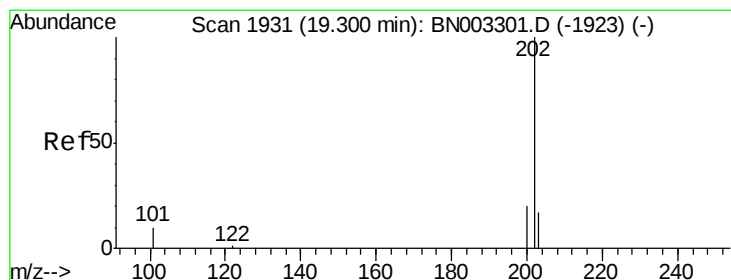
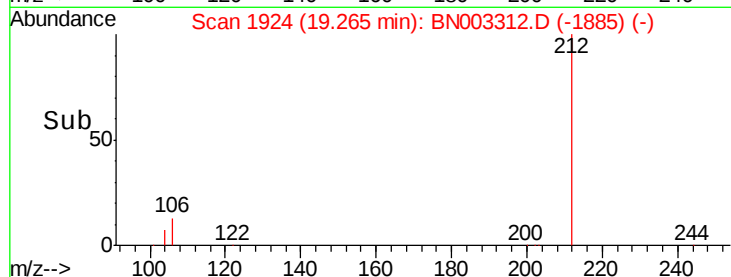
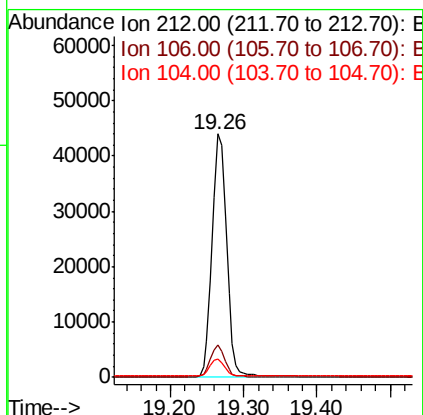
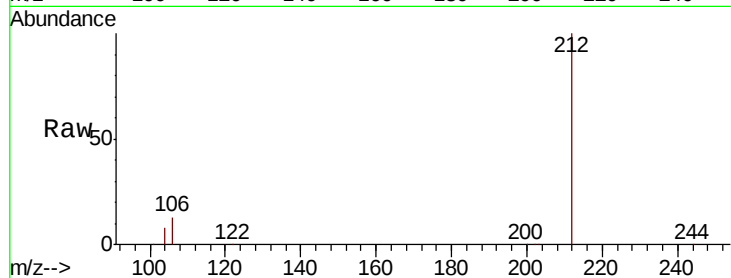




#25
 Fluoranthene-d10
 Concen: 0.288 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN003312.D
 Acq: 26 Oct 2018 19:28

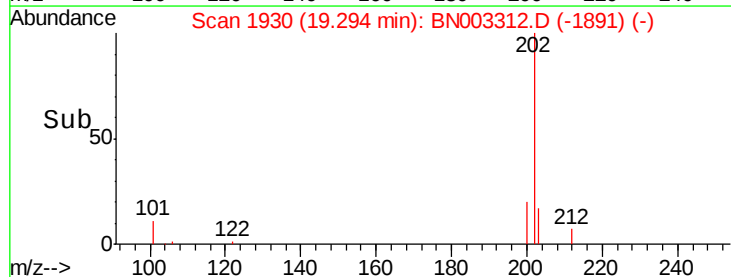
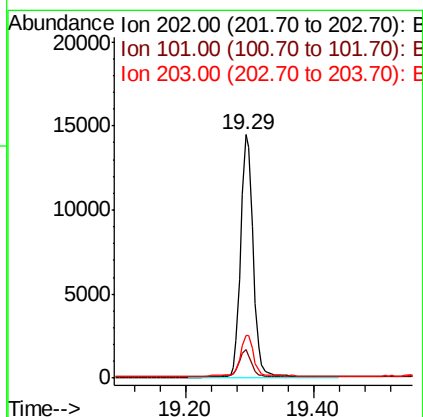
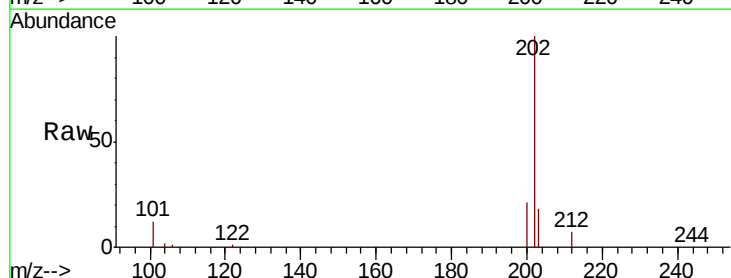
Instrument :
 BNA_N
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

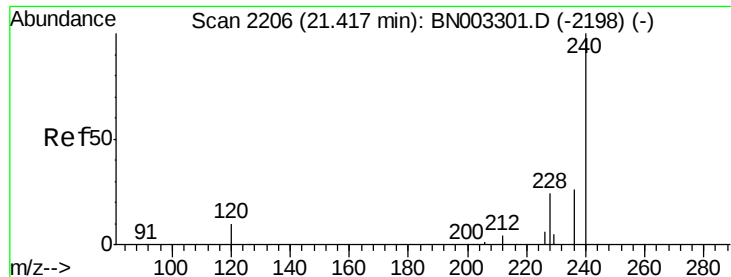
Tgt Ion: 212 Resp: 60426
 Ion Ratio Lower Upper
 212 100
 106 12.7 10.3 15.5
 104 7.0 5.6 8.4



#26
 Fluoranthene
 Concen: 0.086 ng
 RT: 19.29 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: BN003312.D
 Acq: 26 Oct 2018 19:28

Tgt Ion: 202 Resp: 19626
 Ion Ratio Lower Upper
 202 100
 101 11.3 9.0 13.4
 203 16.8 13.8 20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.42 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

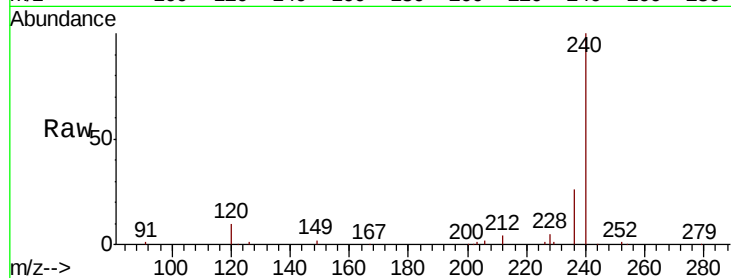
Tgt Ion:240 Resp: 76282

Ion Ratio Lower Upper

240 100

120 10.3 9.3 13.9

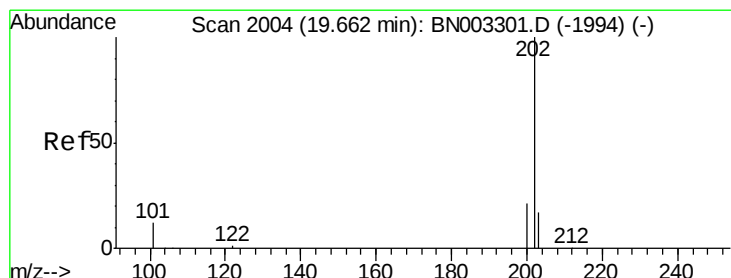
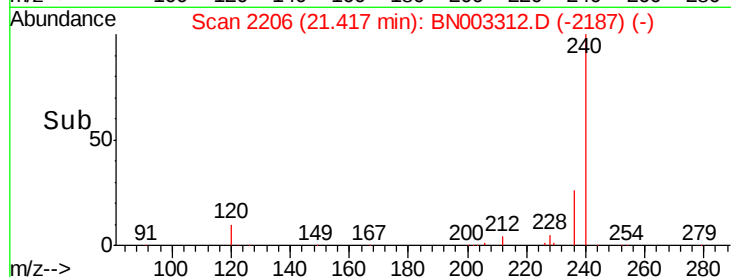
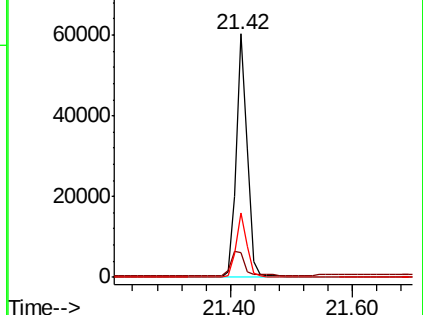
236 26.2 21.0 31.4



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

Pyrene

Concen: 0.091 ng

RT: 19.66 min Scan# 2004

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

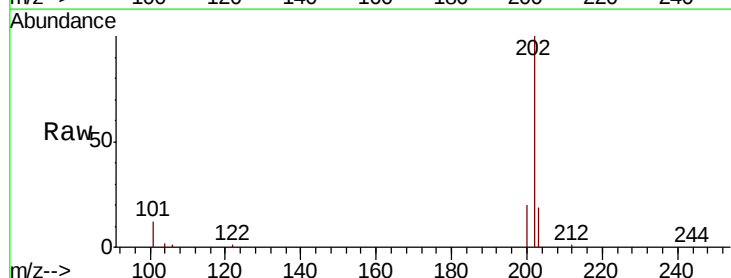
Tgt Ion:202 Resp: 19230

Ion Ratio Lower Upper

202 100

200 20.3 16.5 24.7

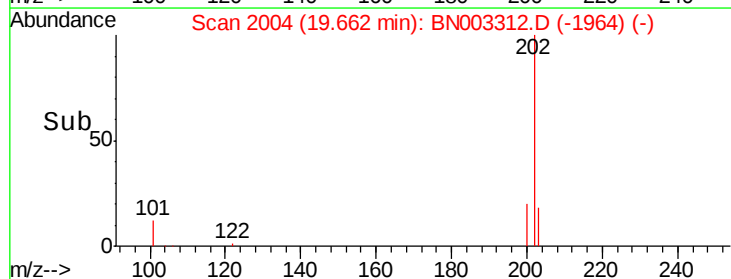
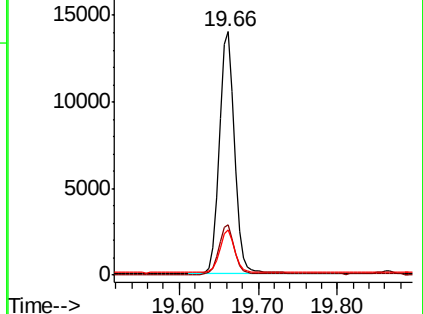
203 18.0 13.9 20.9

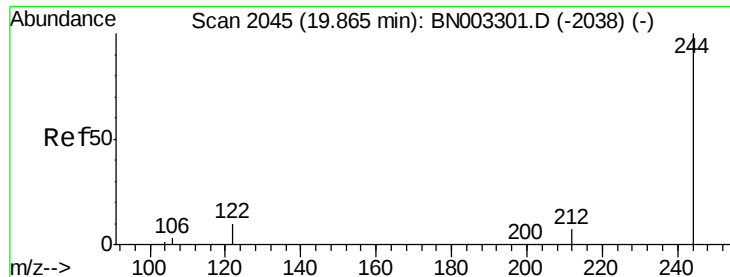


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.324 ng

RT: 19.87 min Scan# 2045

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

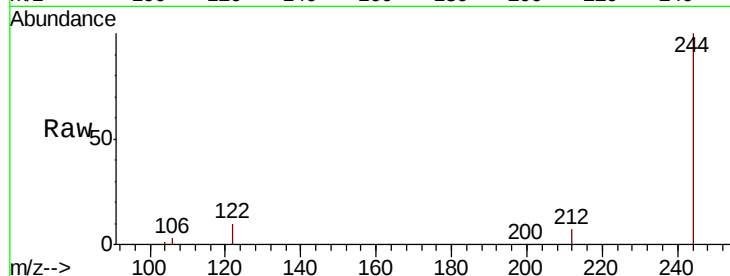
Tgt Ion:244 Resp: 57526

Ion Ratio Lower Upper

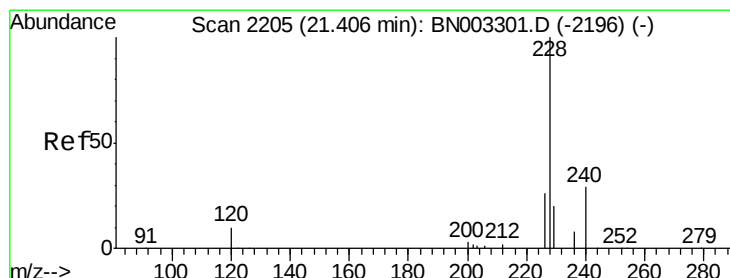
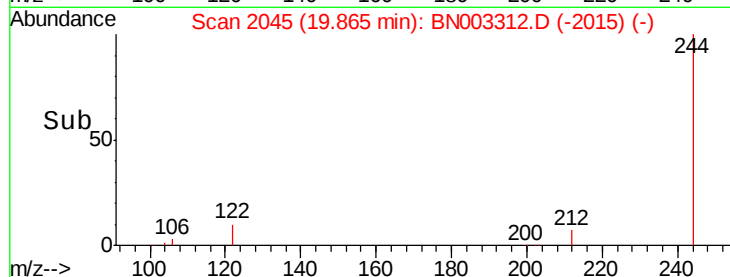
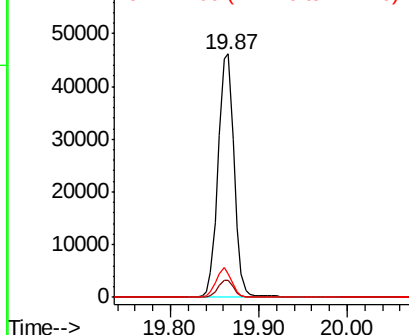
244 100

212 6.9 5.6 8.4

122 9.9 8.5 12.7



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: 0.080 ng

RT: 21.41 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

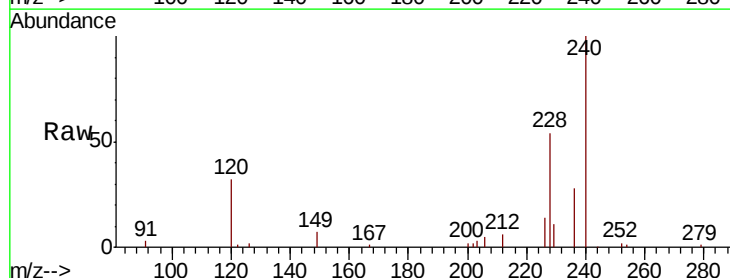
Tgt Ion:228 Resp: 16066

Ion Ratio Lower Upper

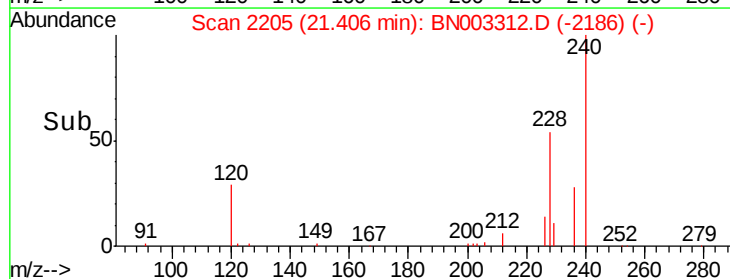
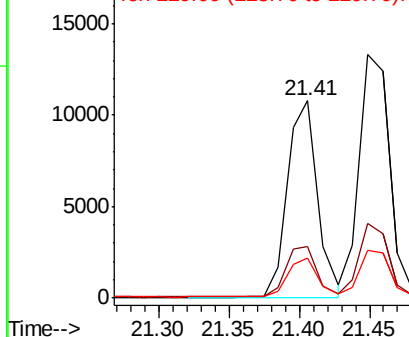
228 100

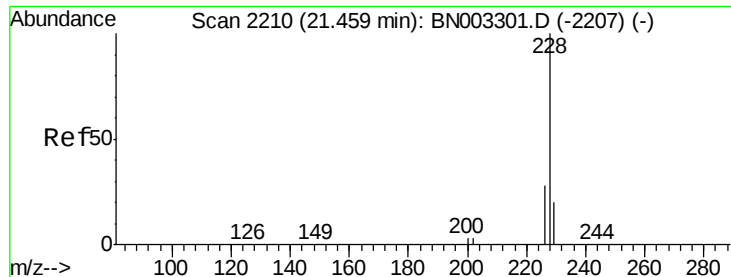
226 26.0 20.8 31.2

229 20.4 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





#31

Chrysene

Concen: 0.093 ng

RT: 21.45 min Scan# 2209

Delta R.T. -0.01 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

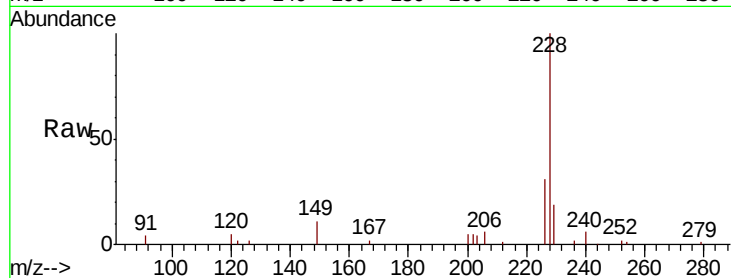
Tgt Ion:228 Resp: 19971

Ion Ratio Lower Upper

228 100

226 30.7 22.7 34.1

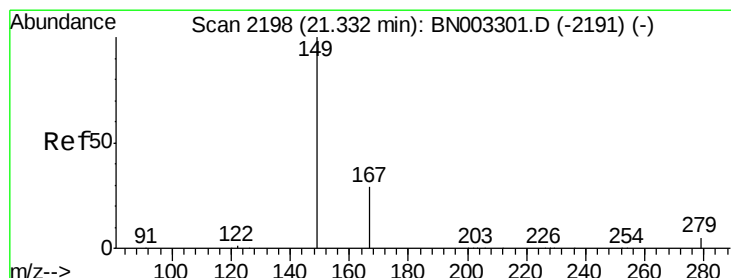
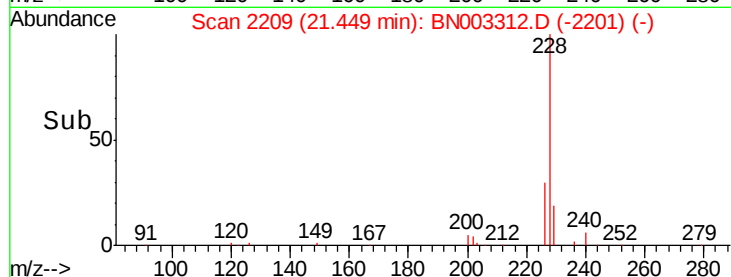
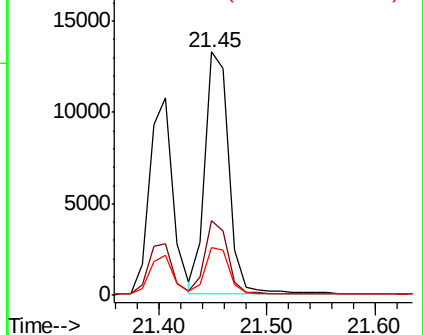
229 19.5 16.0 24.0



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: 0.079 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

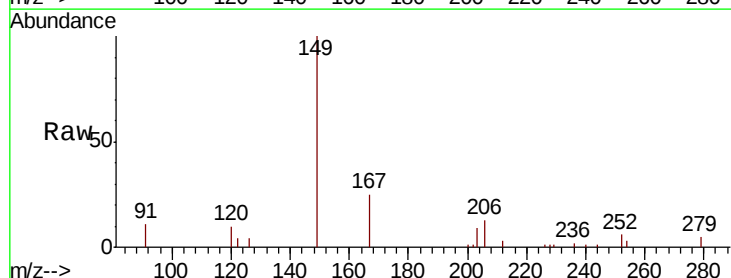
Tgt Ion:149 Resp: 4701

Ion Ratio Lower Upper

149 100

167 27.7 22.4 33.6

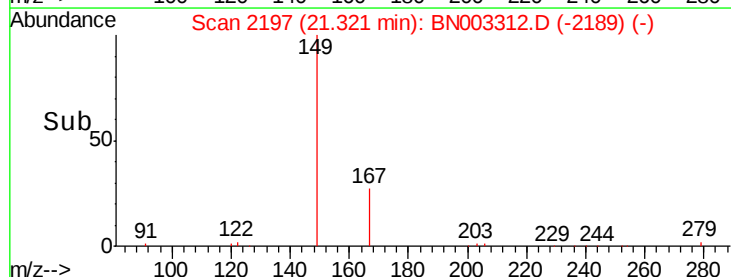
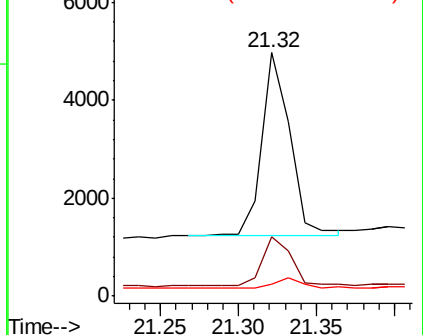
279 5.8 3.9 5.9

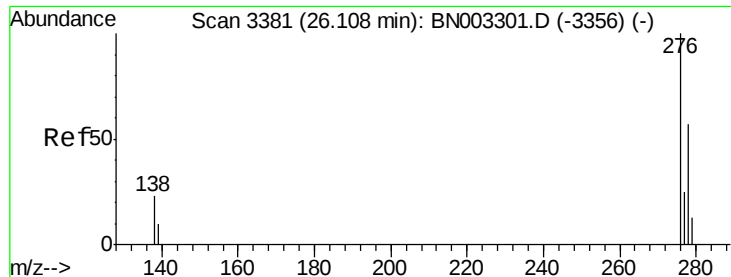


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.084 ng

RT: 26.10 min Scan# 3379

Delta R.T. -0.01 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

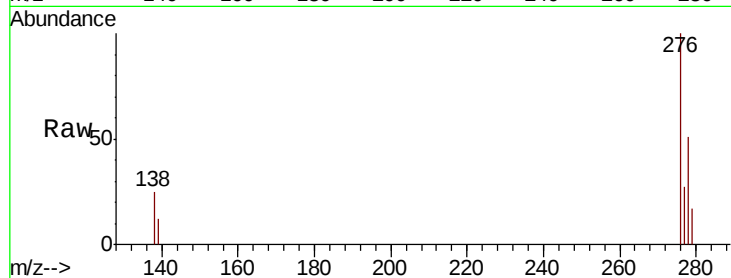
Tgt Ion: 276 Resp: 18711

Ion Ratio Lower Upper

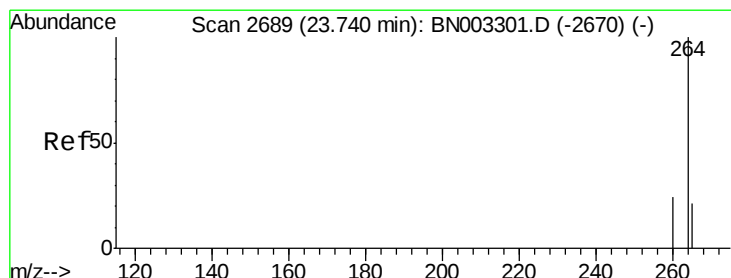
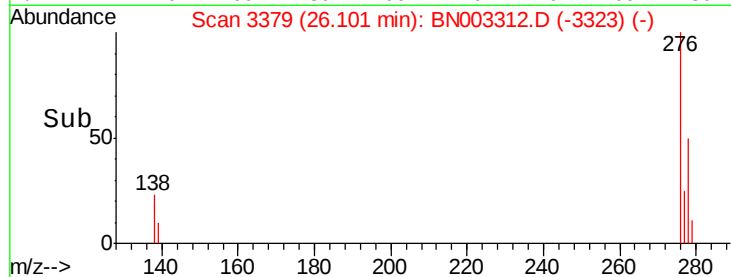
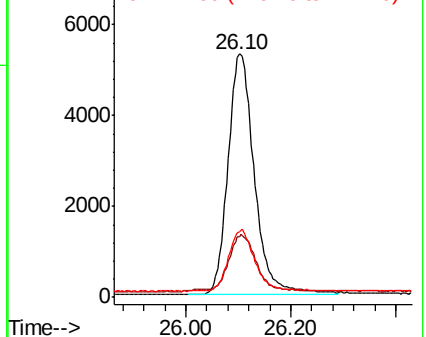
276 100

138 23.1 20.6 30.8

277 24.4 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.74 min Scan# 2689

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

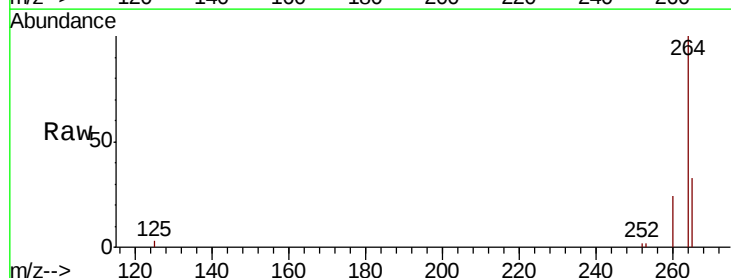
Tgt Ion: 264 Resp: 70629

Ion Ratio Lower Upper

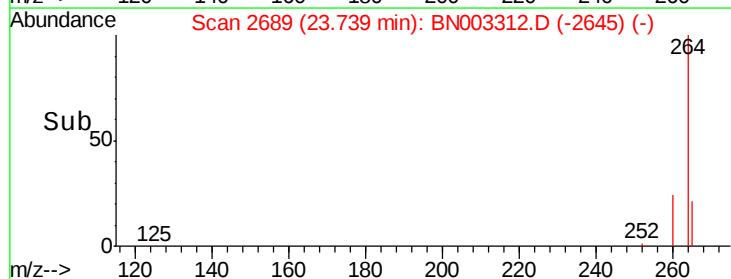
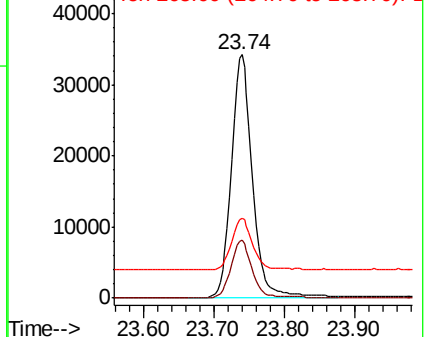
264 100

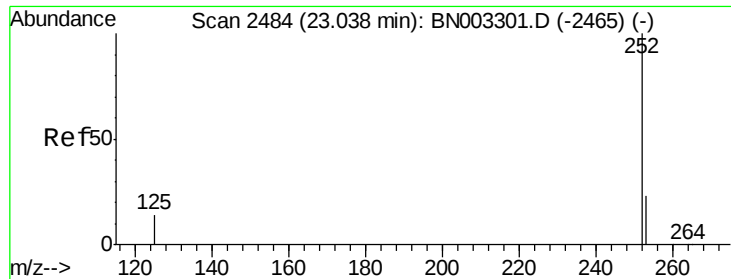
260 23.7 19.1 28.7

265 32.8 26.4 39.6



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.085 ng

RT: 23.08 min Scan# 2497

Delta R.T. 0.04 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

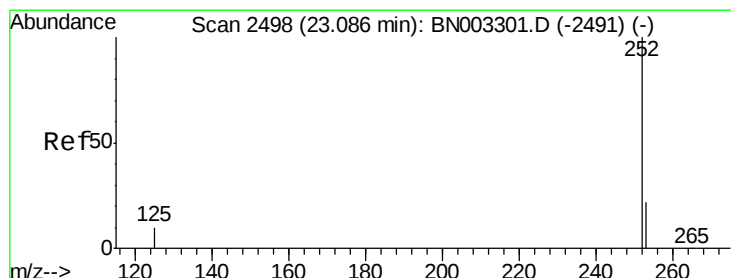
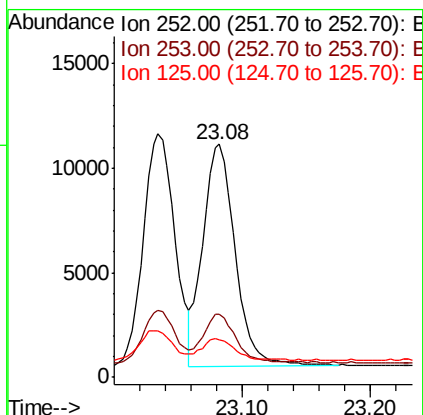
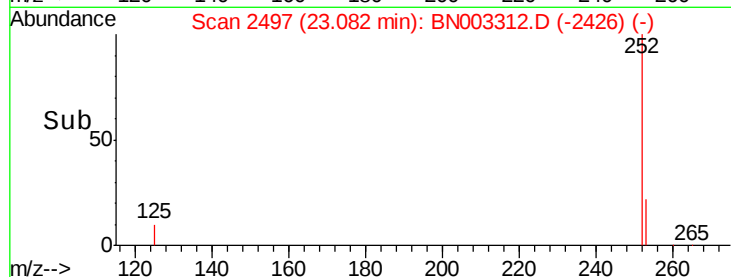
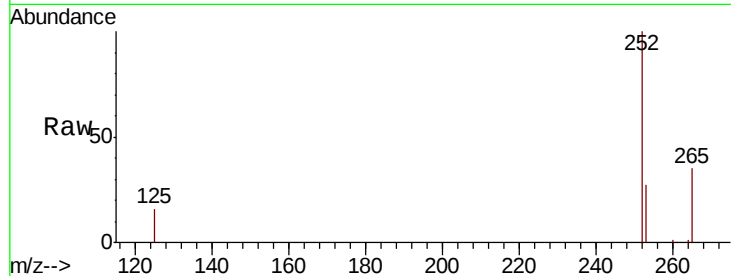
Tgt Ion:252 Resp: 18569

Ion Ratio Lower Upper

252 100

253 26.9 19.3 28.9

125 16.4 12.7 19.1



#36

Benzo(k)fluoranthene

Concen: 0.085 ng

RT: 23.08 min Scan# 2497

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

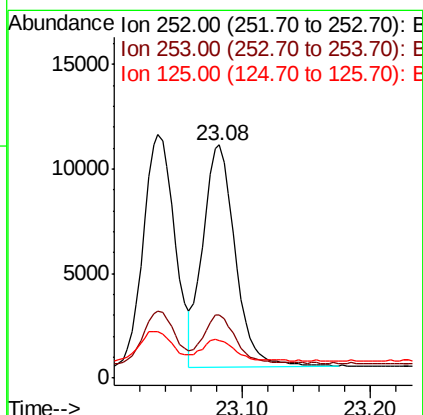
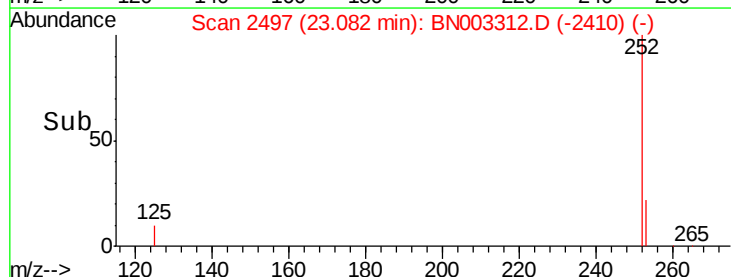
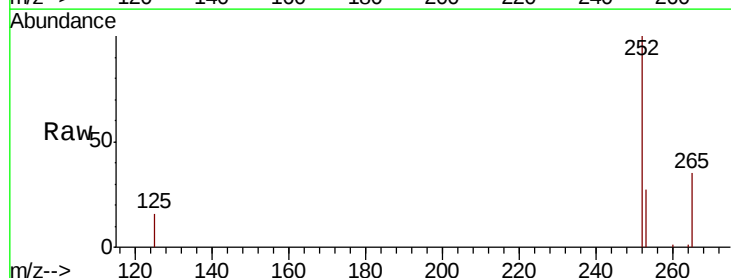
Tgt Ion:252 Resp: 18569

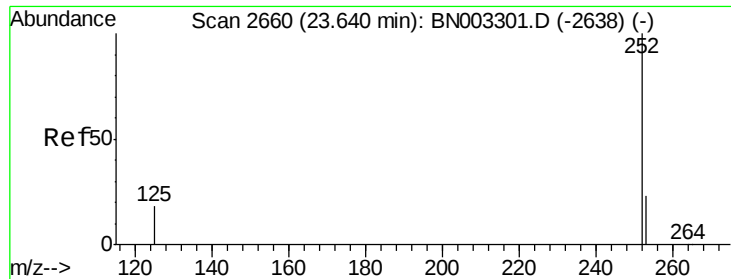
Ion Ratio Lower Upper

252 100

253 26.9 18.5 27.7

125 16.4 9.1 13.7#





#37

Benzo(a)pyrene

Concen: 0.082 ng

RT: 23.64 min Scan# 2659

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

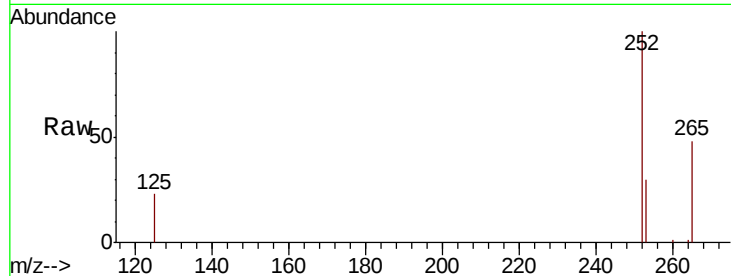
Tgt Ion:252 Resp: 16356

Ion Ratio Lower Upper

252 100

253 30.0 20.1 30.1

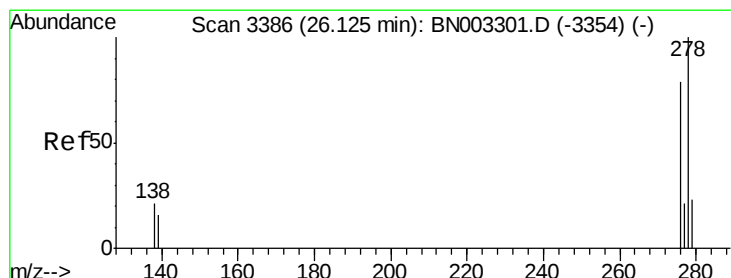
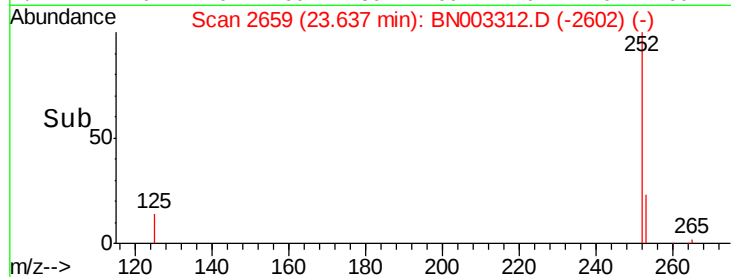
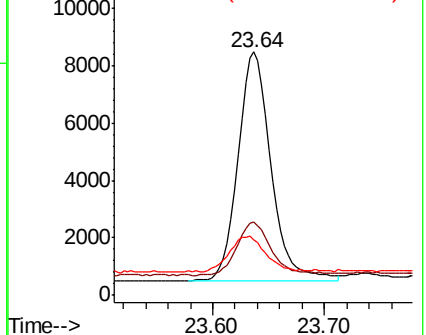
125 23.0 16.0 24.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.080 ng

RT: 26.12 min Scan# 3385

Delta R.T. -0.00 min

Lab File: BN003312.D

Acq: 26 Oct 2018 19:28

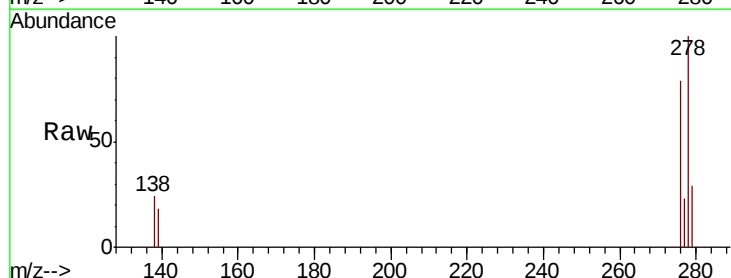
Tgt Ion:278 Resp: 15024

Ion Ratio Lower Upper

278 100

139 18.2 13.5 20.3

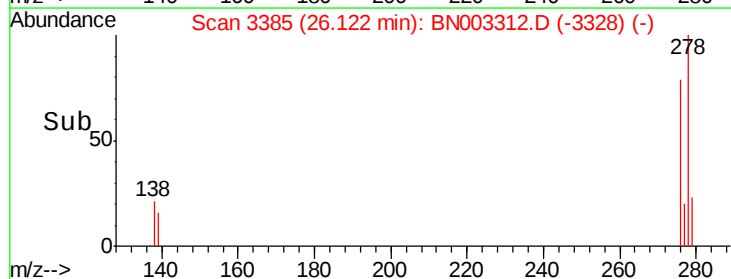
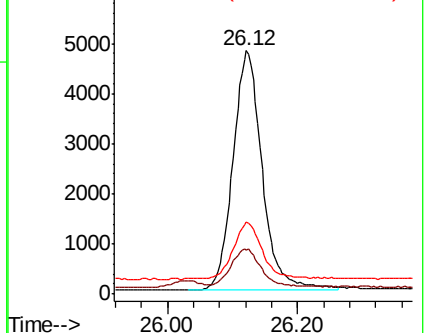
279 29.4 19.8 29.6

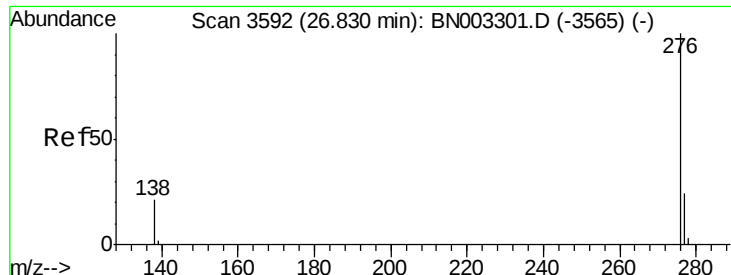


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.087 ng

RT: 26.83 min Scan# 3592

Delta R.T. -0.00 min

Lab File: BN003312.D

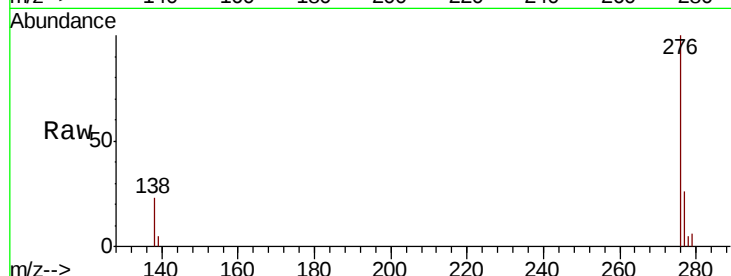
Acq: 26 Oct 2018 19:28

Instrument :

BNA_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018



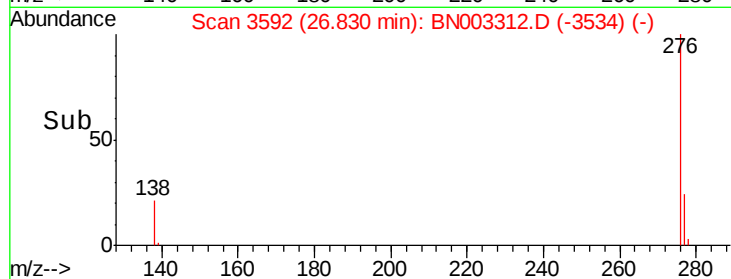
Tgt Ion: 276 Resp: 16274

Ion Ratio Lower Upper

276 100

277 26.4 19.5 29.3

138 23.3 17.4 26.2



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

