

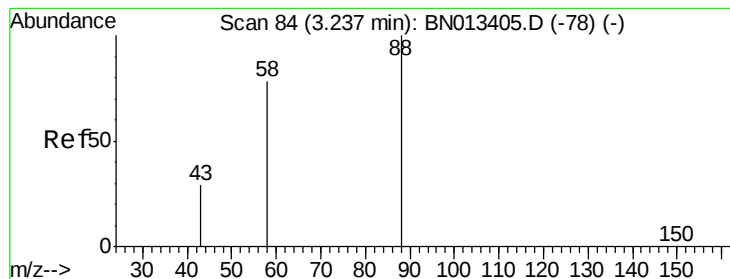
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN011421\
 Data File : BN013409.D
 Acq On : 14 Jan 2021 13:34
 Operator : CG/JU
 Sample : L5214-04
 Misc : SFAM-SIMMDL-S-02
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

Quant Time: Jan 14 16:23:00 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SFAM-EPA-SIM-BN010621.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 10:44:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	4889	0.40	ng/ul	0.00
4) Naphthalene-d8	10.36	136	18081	0.40	ng/ul	0.00
9) Acenaphthene-d10	14.22	164	9227	0.40	ng/ul	0.00
13) Phenanthrene-d10	16.96	188	19212	0.40	ng/ul	0.00
19) Chrysene-d12	21.16	240	16504	0.40	ng/ul	0.00
23) Perylene-d12	23.32	264	16617	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.20	96	2752	0.53	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.95	152	7992	0.29	ng/ul	0.00
17) Fluoranthene-d10	19.00	212	14231	0.28	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.24	88	404	0.079	ng/ul#	68
5) Naphthalene	10.41	128	3166	0.062	ng/ul	96
7) 2-Methylnaphthalene	12.02	142	2044	0.060	ng/ul	98
8) 1-Methylnaphthalene	12.24	142	1929	0.060	ng/ul	99
10) Acenaphthylene	13.94	152	2265	0.056	ng/ul	96
11) Acenaphthene	14.28	153	2029	0.061	ng/ul	96
12) Fluorene	15.27	166	2214	0.058	ng/ul	98
14) Pentachlorophenol	16.62	266	272	0.070	ng/ul	97
15) Phenanthrene	17.00	178	3993	0.066	ng/ul	95
16) Anthracene	17.10	178	3045	0.057	ng/ul#	92
18) Fluoranthene	19.03	202	4821	0.068	ng/ul	98
20) Pyrene	19.39	202	4774	0.072	ng/ul#	94
21) Benzo(a)anthracene	21.14	228	3975	0.066	ng/ul	98
22) Chrysene	21.19	228	4844	0.073	ng/ul	98
24) Benzo(b)fluoranthene	22.68	252	4787	0.072	ng/ul	80
25) Benzo(k)fluoranthene	22.72	252	5746	0.087	ng/ul#	25
26) Benzo(a)pyrene	23.23	252	4315	0.076	ng/ul#	65
27) Indeno(1,2,3-cd)pyrene	25.48	276	5896	0.081	ng/ul#	47
28) Dibenzo(a,h)anthracene	25.50	278	4543	0.074	ng/ul#	87
29) Benzo(g,h,i)perylene	26.14	276	4672	0.073	ng/ul	92

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



#2

1,4-Dioxane

Concen: 0.079 ng/ul

RT: 3.24 min Scan# 85

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

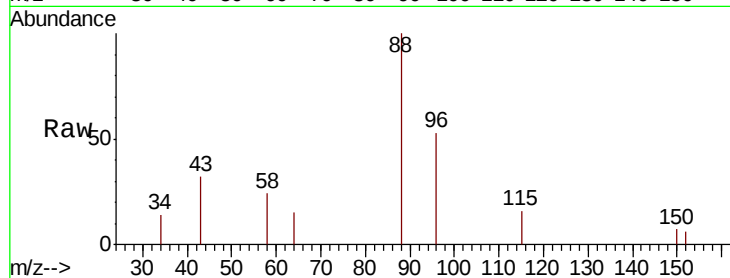
Tot Ion: 88 Resp: 404

Ion Ratio Lower Upper

88 100

43 32.1 31.5 47.3

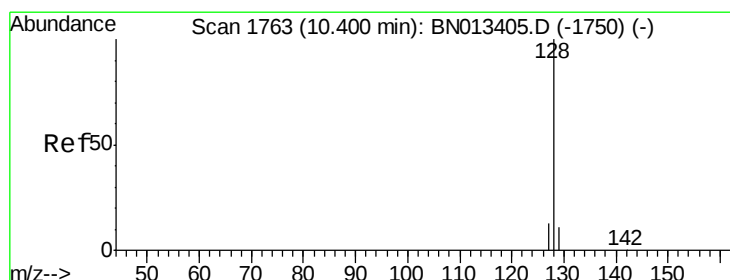
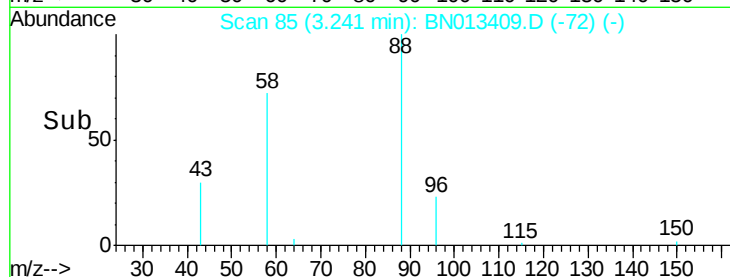
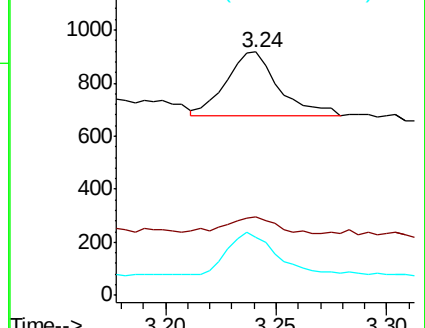
58 24.0 46.4 69.6#



Abundance Ion 88.00 (87.70 to 88.70): BN013409.D (-72) (-)

Ion 43.00 (42.70 to 43.70): BN013409.D (-72) (-)

Ion 58.00 (57.70 to 58.70): BN013409.D (-72) (-)



#5

Naphthalene

Concen: 0.062 ng/ul

RT: 10.41 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

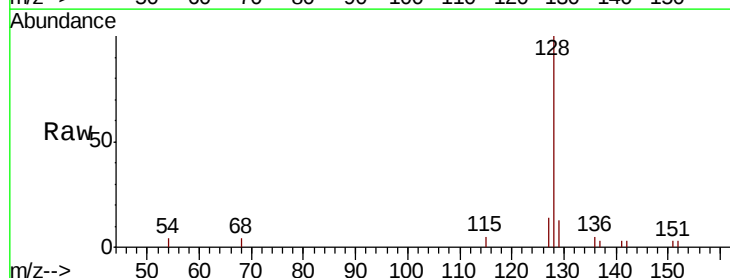
Tgt Ion: 128 Resp: 3166

Ion Ratio Lower Upper

128 100

129 13.1 9.1 13.7

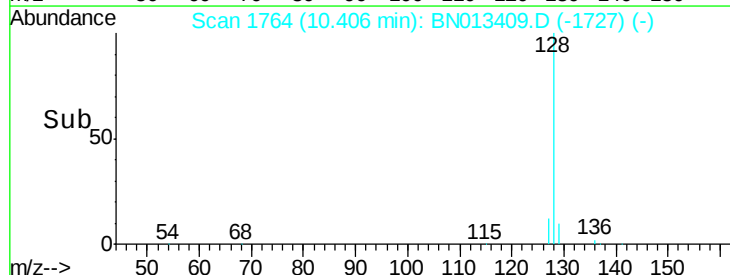
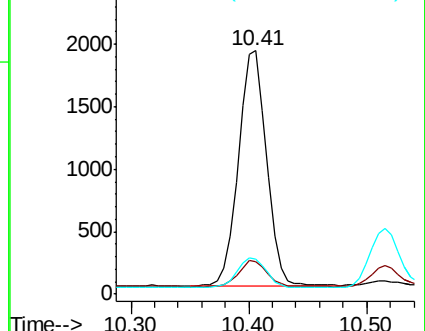
127 14.5 10.6 16.0

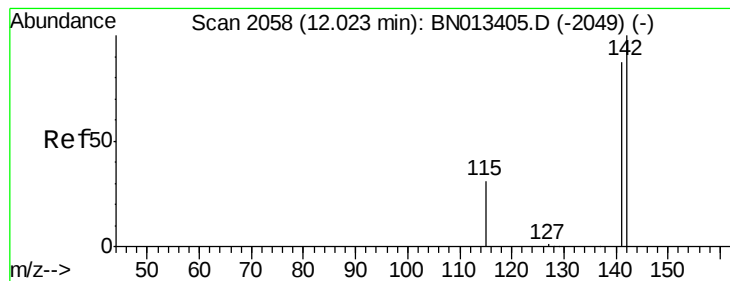


Abundance Ion 128.00 (127.70 to 128.70): BN013409.D (-1727) (-)

Ion 129.00 (128.70 to 129.70): BN013409.D (-1727) (-)

Ion 127.00 (126.70 to 127.70): BN013409.D (-1727) (-)





#7

2-Methylnaphthalene

Concen: 0.060 ng/ul

RT: 12.02 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

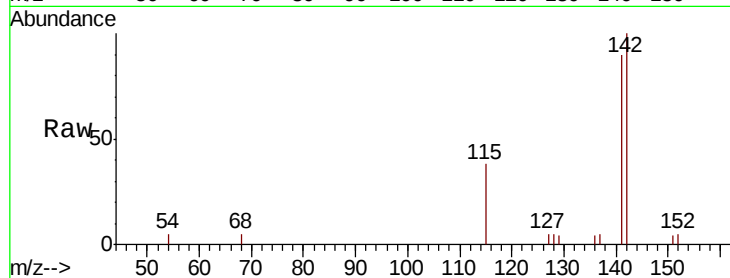
MDL-SOIL-QT1-2021-02

Tot Ion:142 Resp: 2044

Ion Ratio Lower Upper

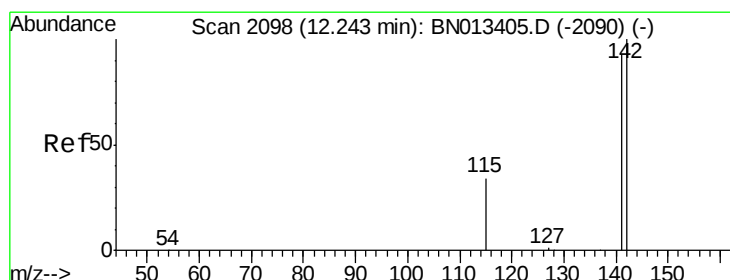
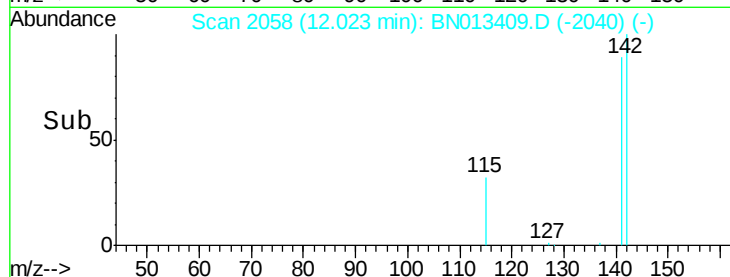
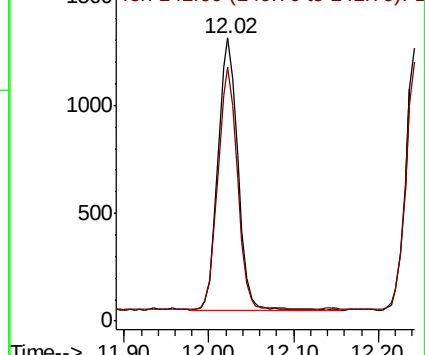
142 100

141 86.9 70.7 106.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#8

1-Methylnaphthalene

Concen: 0.060 ng/ul

RT: 12.24 min Scan# 2098

Delta R.T. 0.00 min

Lab File: BN013409.D

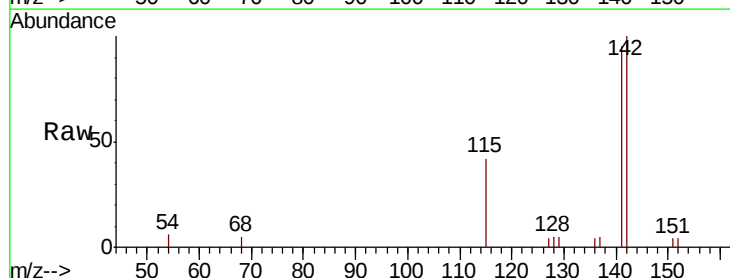
Acq: 14 Jan 2021 13:34

Tgt Ion:142 Resp: 1929

Ion Ratio Lower Upper

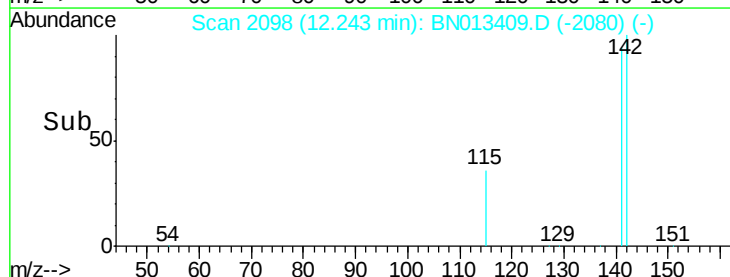
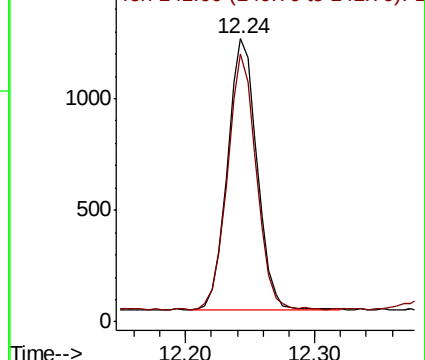
142 100

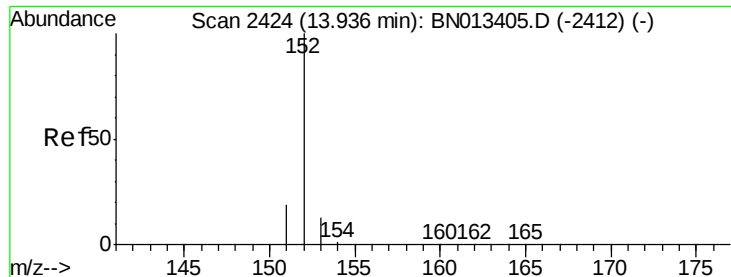
141 92.4 73.2 109.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#10

Acenaphthylene

Concen: 0.056 ng/ul

RT: 13.94 min Scan# 2424

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

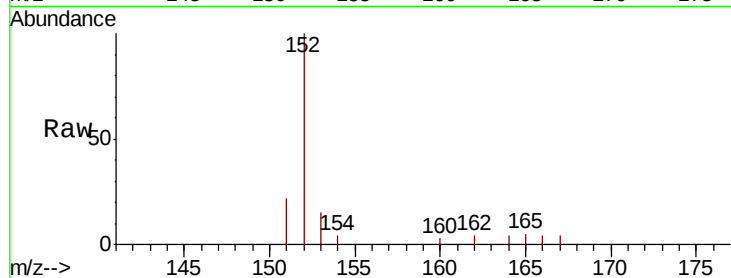
Tot Ion:152 Resp: 2265

Ion Ratio Lower Upper

152 100

151 21.9 16.2 24.4

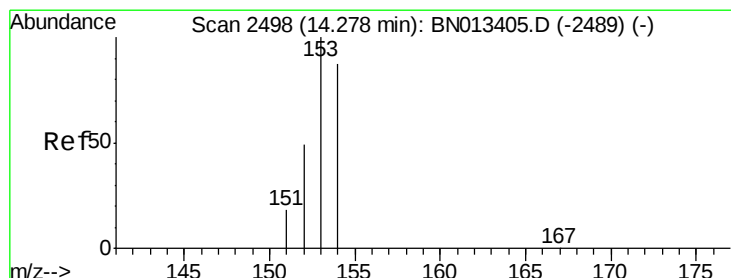
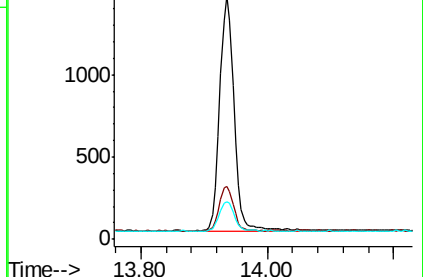
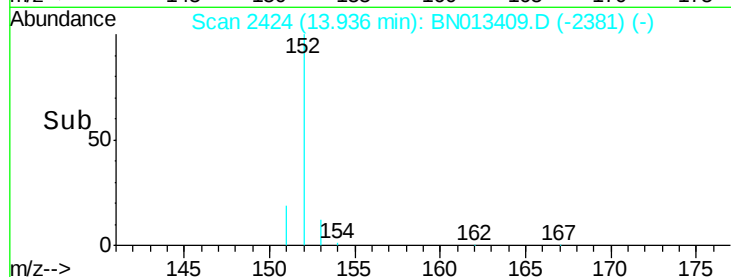
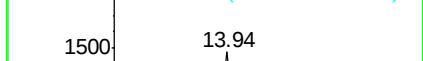
153 15.4 10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E

2000 Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#11

Acenaphthene

Concen: 0.061 ng/ul

RT: 14.28 min Scan# 2499

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

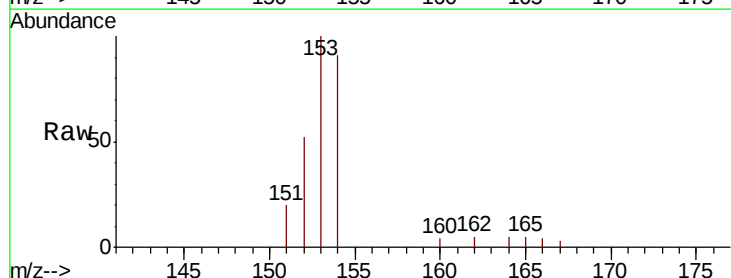
Tgt Ion:153 Resp: 2029

Ion Ratio Lower Upper

153 100

152 51.8 38.6 58.0

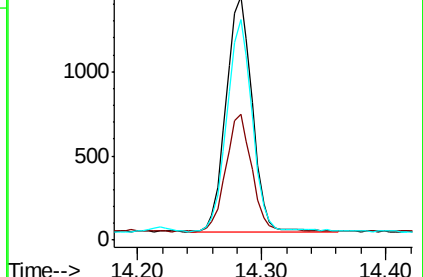
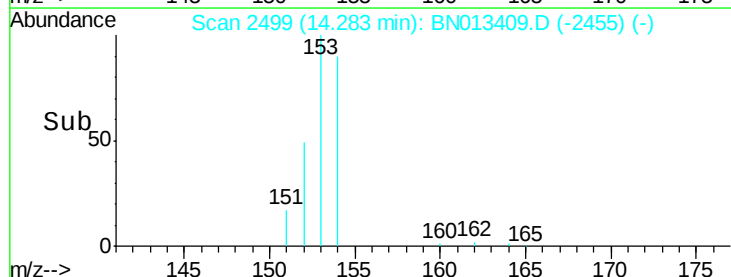
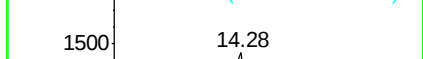
154 90.8 70.1 105.1

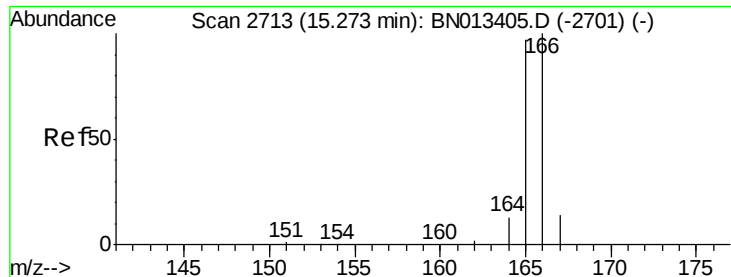


Abundance Ion 153.00 (152.70 to 153.70): E

2000 Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#12

Fluorene

Concen: 0.058 ng/ul

RT: 15.27 min Scan# 2713

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

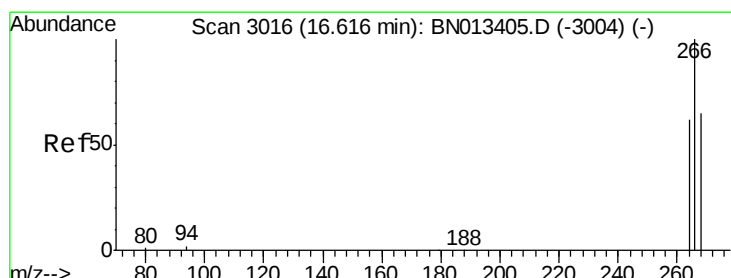
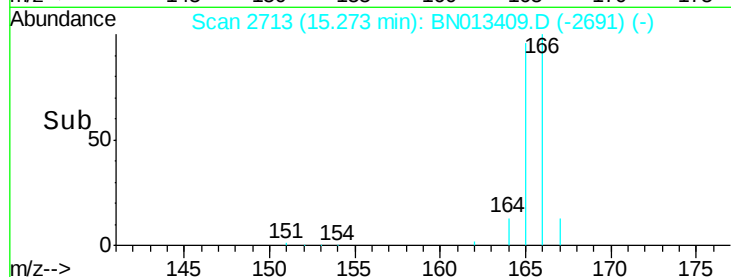
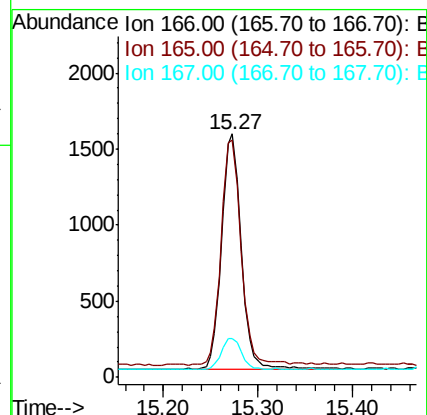
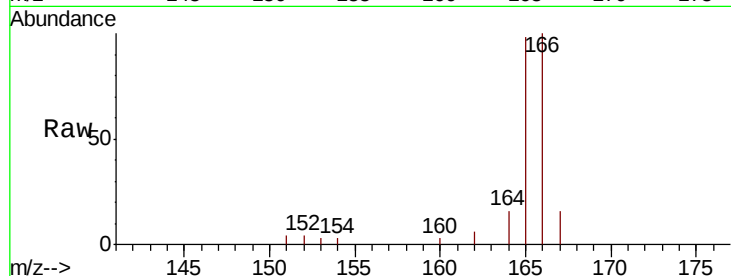
Tot Ion:166 Resp: 2214

Ion Ratio Lower Upper

166 100

165 97.6 79.0 118.4

167 15.9 11.1 16.7



#14

Pentachlorophenol

Concen: 0.070 ng/ul

RT: 16.62 min Scan# 3016

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

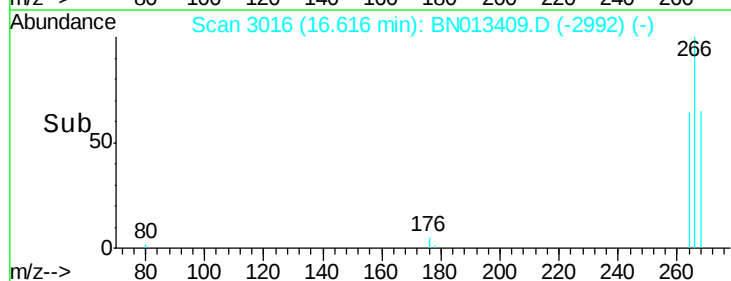
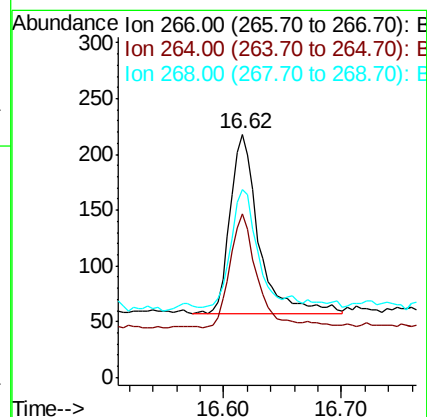
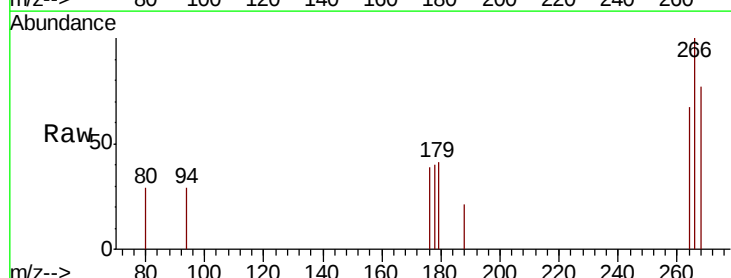
Tgt Ion:266 Resp: 272

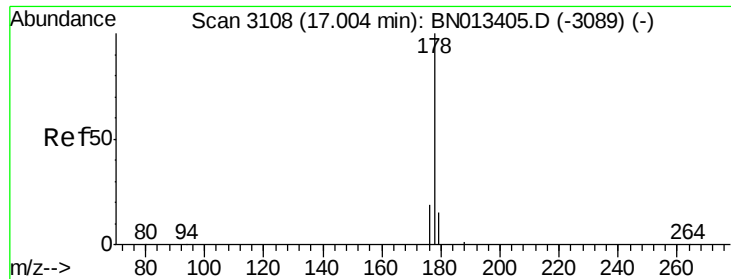
Ion Ratio Lower Upper

266 100

264 60.3 49.5 74.3

268 61.8 51.7 77.5

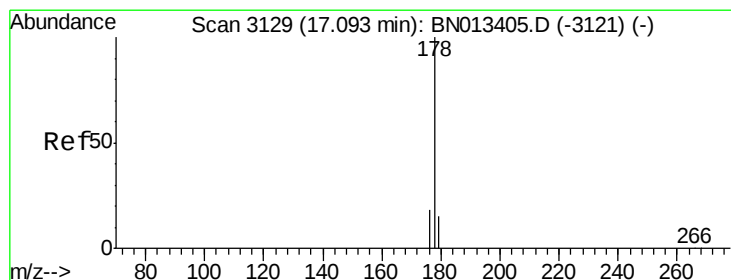
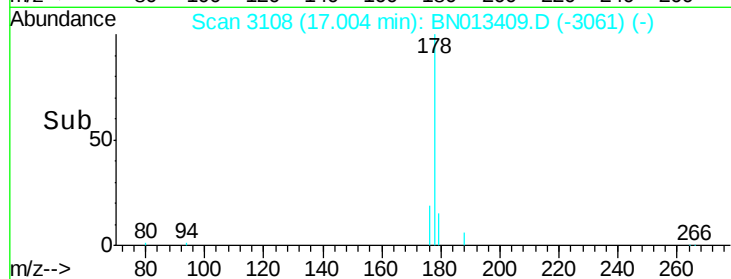
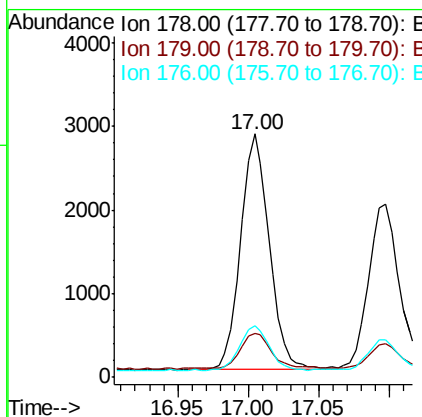
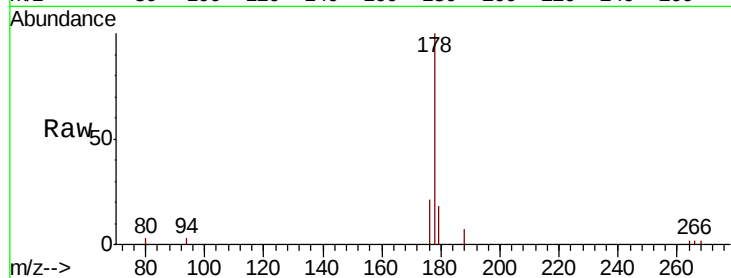




#15
Phenanthrene
Concen: 0.066 ng/ul
RT: 17.00 min Scan# 3108
Delta R.T. 0.00 min
Lab File: BN013409.D
Acq: 14 Jan 2021 13:34

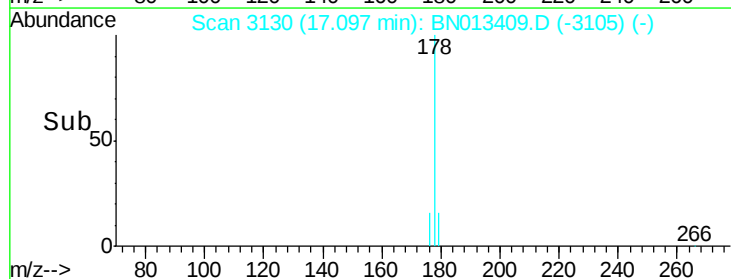
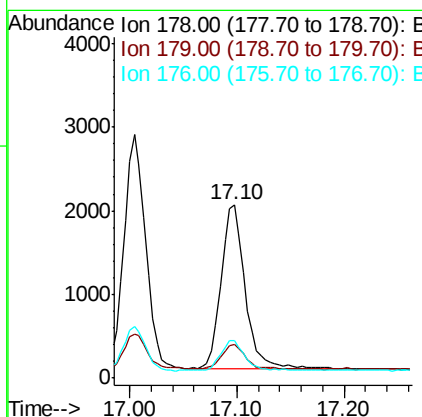
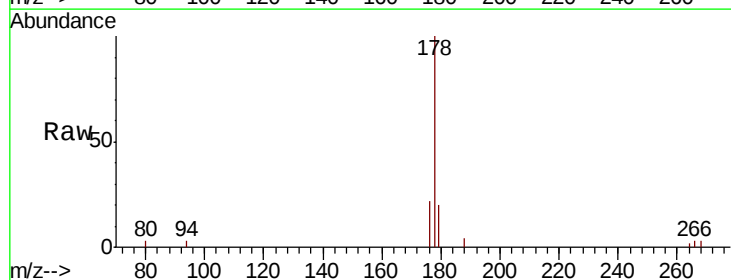
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT1-2021-02

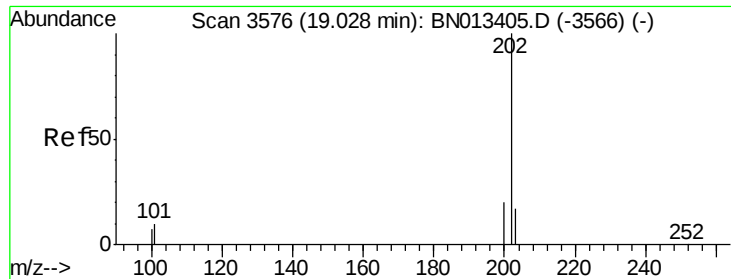
Tot Ion:178 Resp: 3993
Ion Ratio Lower Upper
178 100
179 18.1 12.7 19.1
176 21.4 15.4 23.0



#16
Anthracene
Concen: 0.057 ng/ul
RT: 17.10 min Scan# 3130
Delta R.T. 0.00 min
Lab File: BN013409.D
Acq: 14 Jan 2021 13:34

Tgt Ion:178 Resp: 3045
Ion Ratio Lower Upper
178 100
179 19.6 12.7 19.1#
176 21.9 14.7 22.1





#18

Fluoranthene

Concen: 0.068 ng/ul

RT: 19.03 min Scan# 3576

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

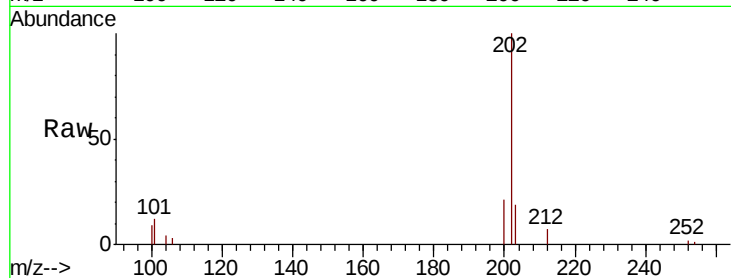
Tot Ion:202 Resp: 4821

Ion Ratio Lower Upper

202 100

101 12.4 9.3 13.9

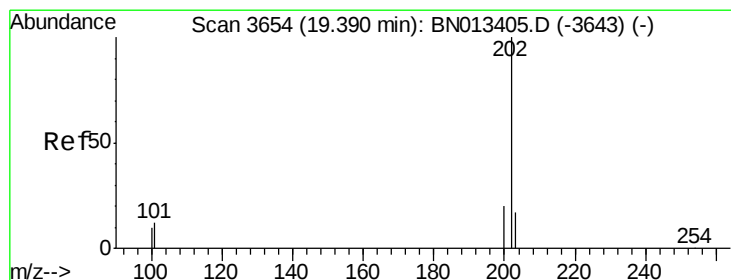
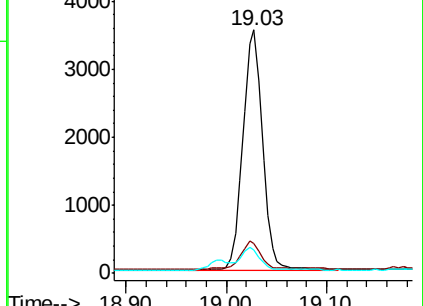
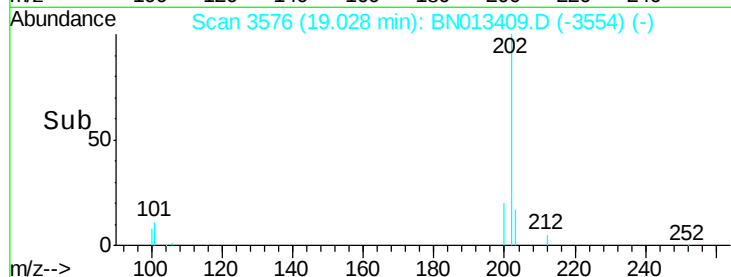
100 9.4 7.0 10.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#20

Pyrene

Concen: 0.072 ng/ul

RT: 19.39 min Scan# 3654

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

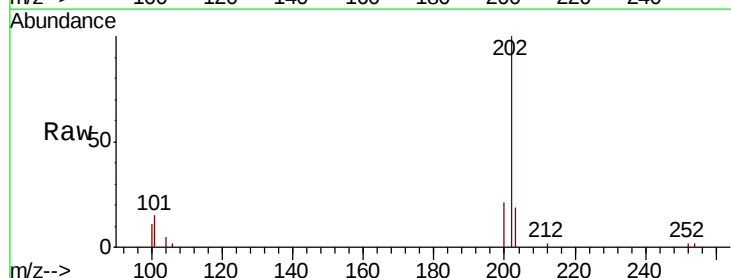
Tgt Ion:202 Resp: 4774

Ion Ratio Lower Upper

202 100

101 14.6 9.7 14.5#

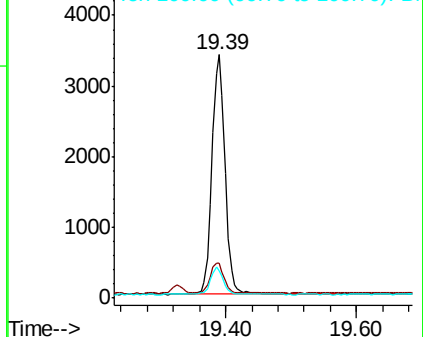
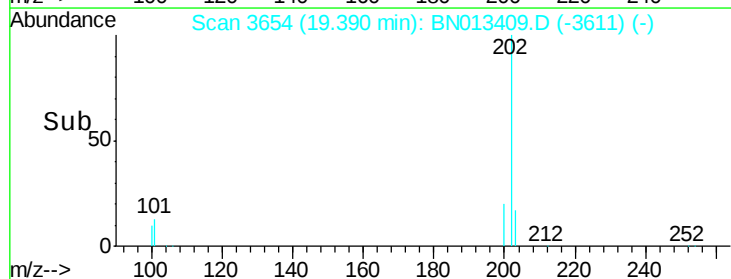
100 11.5 7.6 11.4#

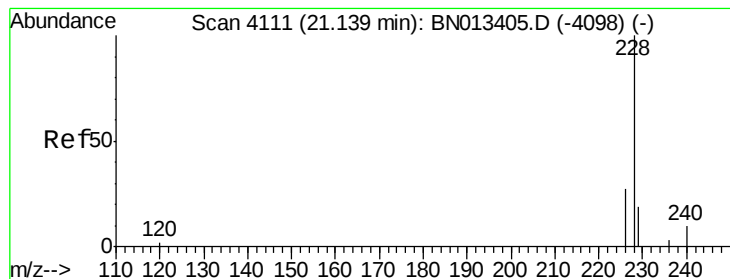


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 0.066 ng/ul

RT: 21.14 min Scan# 4111

Delta R.T. -0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

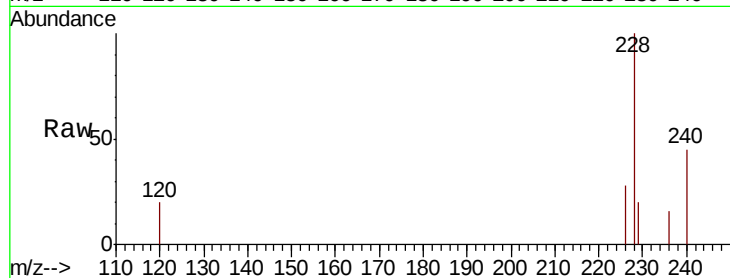
Tot Ion:228 Resp: 3975

Ion Ratio Lower Upper

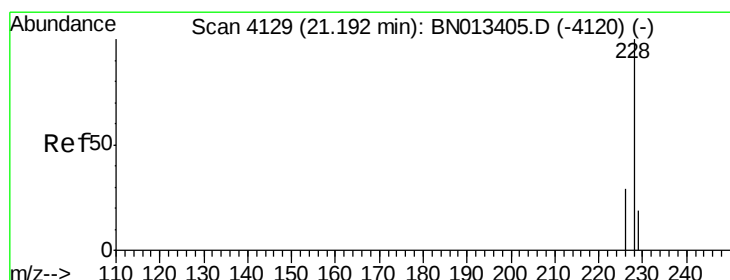
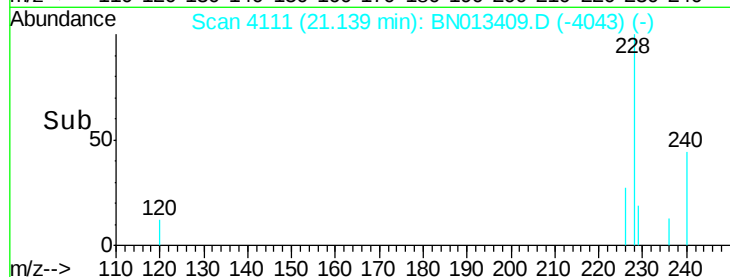
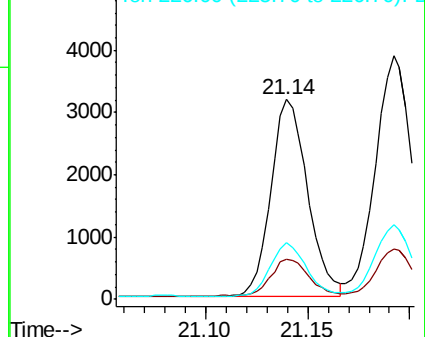
228 100

229 20.1 15.8 23.6

226 28.4 21.6 32.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#22

Chrysene

Concen: 0.073 ng/ul

RT: 21.19 min Scan# 4129

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

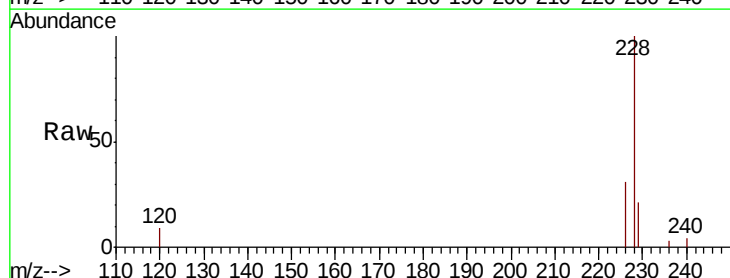
Tgt Ion:228 Resp: 4844

Ion Ratio Lower Upper

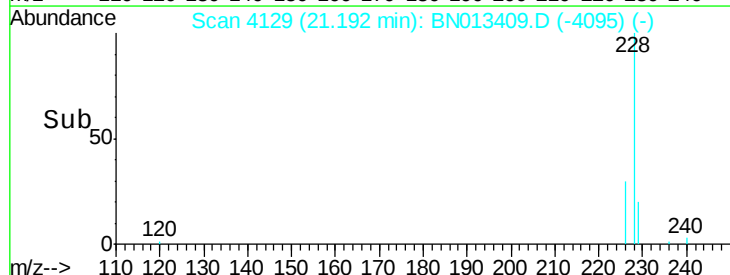
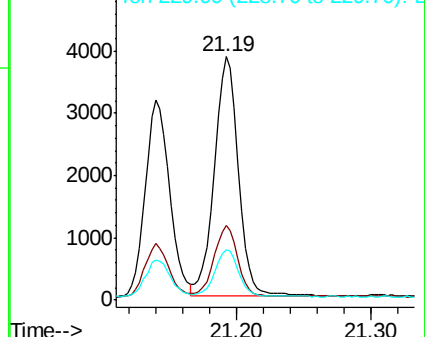
228 100

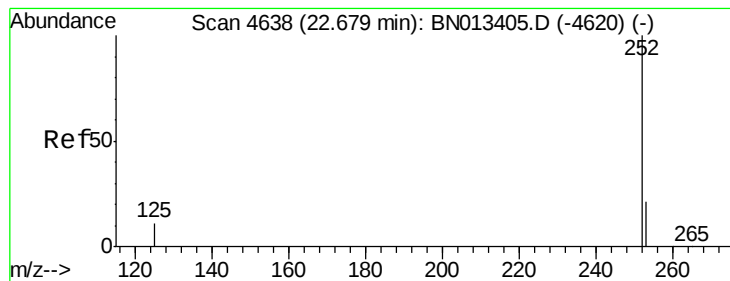
226 30.6 23.6 35.4

229 20.7 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





#24

Benzo(b)fluoranthene

Concen: 0.072 ng/ul

RT: 22.68 min Scan# 4638

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

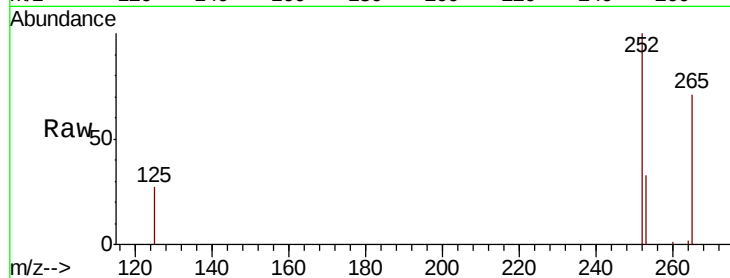
Tot Ion:252 Resp: 4787

Ion Ratio Lower Upper

252 100

253 33.1 0.0 49.6

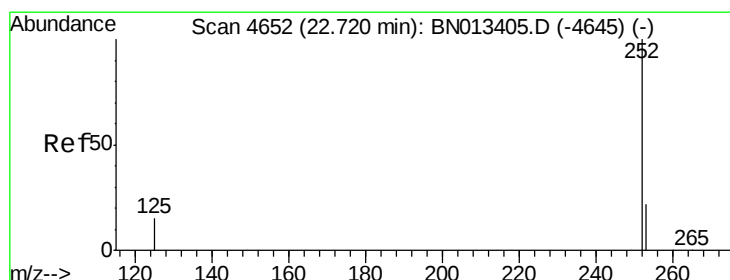
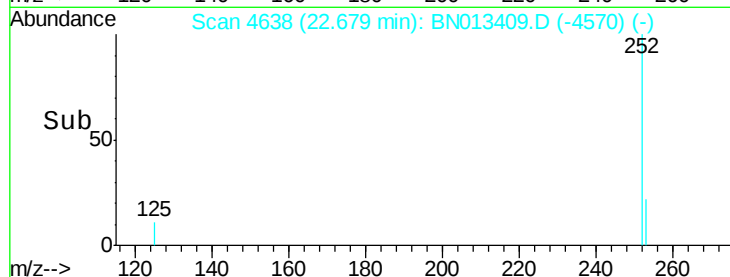
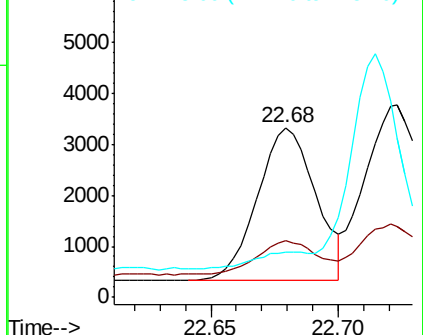
125 26.7 0.0 31.8



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



#25

Benzo(k)fluoranthene

Concen: 0.087 ng/ul

RT: 22.72 min Scan# 4653

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

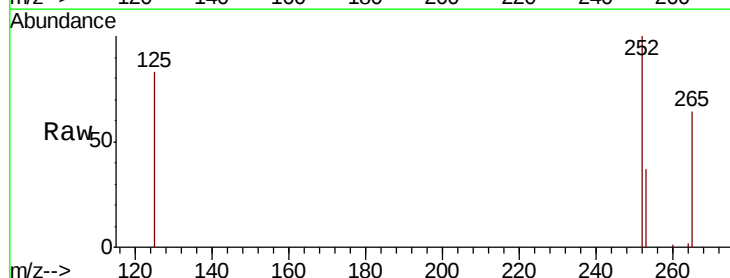
Tgt Ion:252 Resp: 5746

Ion Ratio Lower Upper

252 100

253 37.2 20.3 30.5#

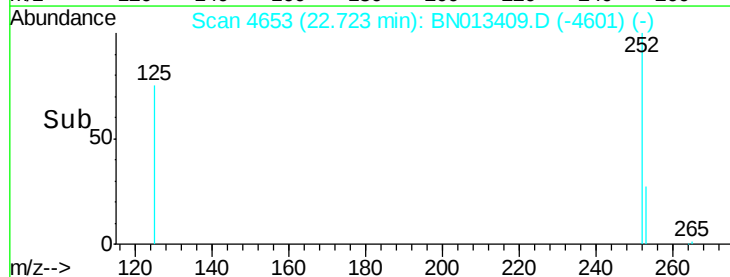
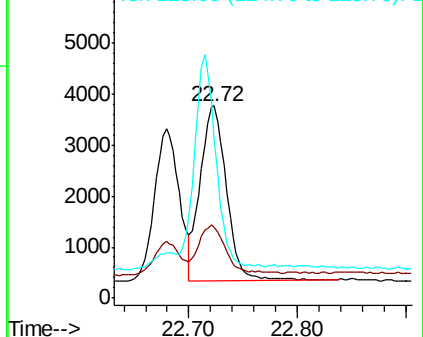
125 83.1 13.3 19.9#

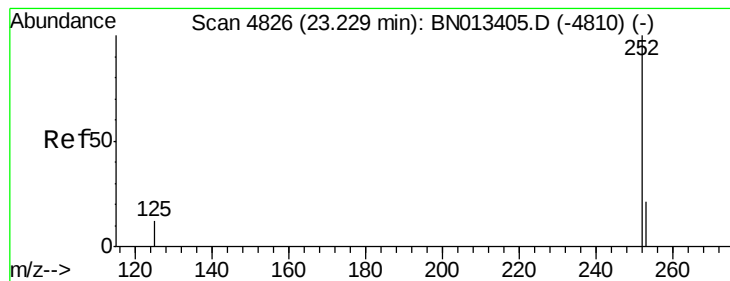


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 0.076 ng/u1

RT: 23.23 min Scan# 4827

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

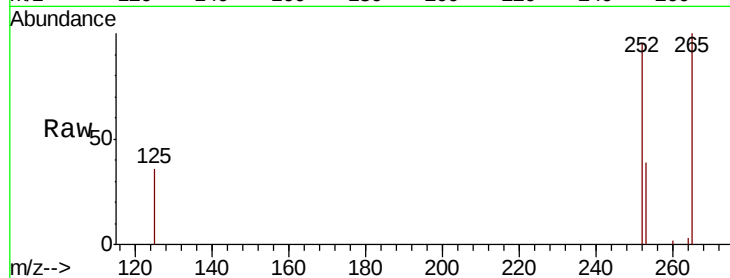
Tot Ion:252 Resp: 4315

Ion Ratio Lower Upper

252 100

253 41.0 21.3 31.9#

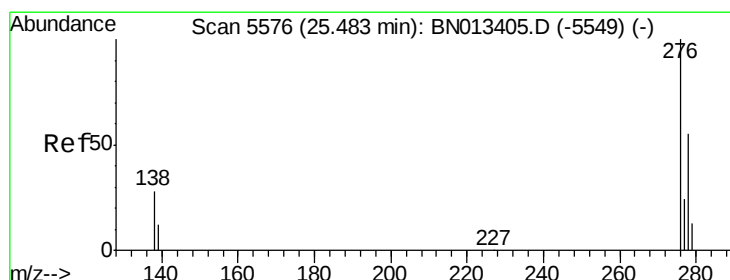
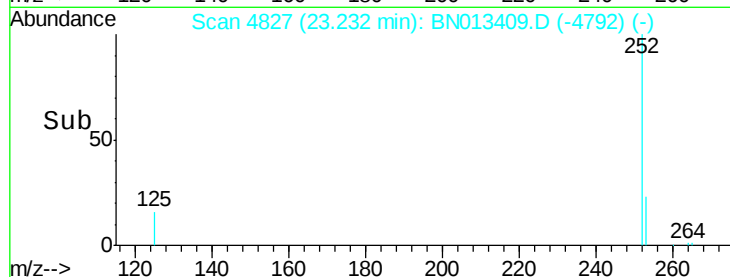
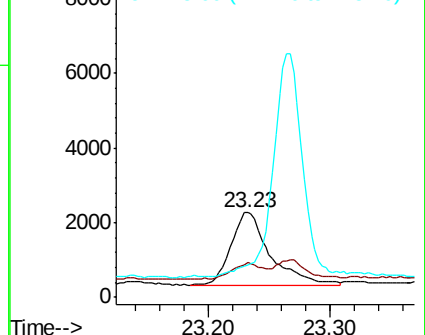
125 38.1 14.8 22.2#



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.081 ng/u1

RT: 25.48 min Scan# 5576

Delta R.T. 0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

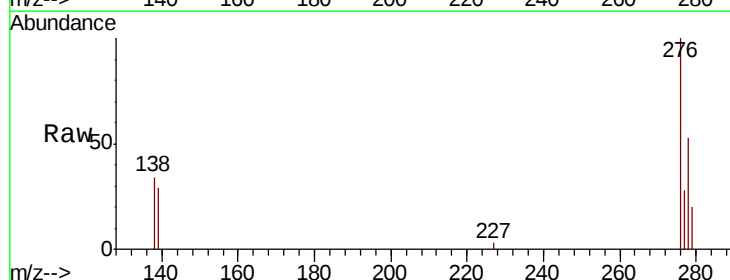
Tgt Ion:276 Resp: 5896

Ion Ratio Lower Upper

276 100

138 0.0 22.6 33.8#

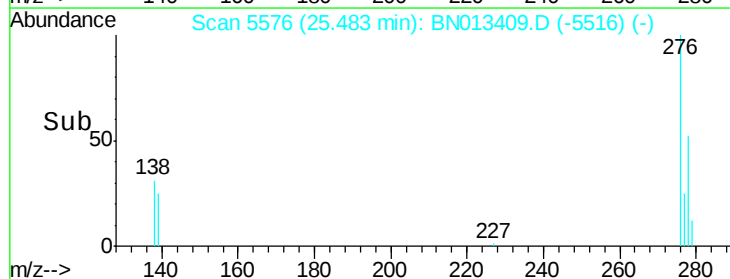
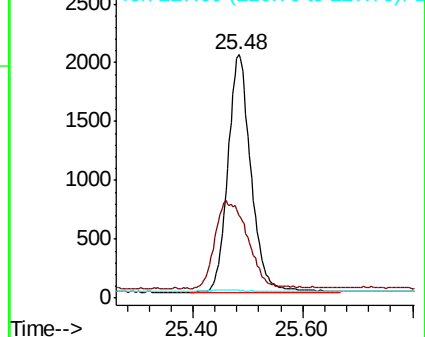
227 0.0 0.2 0.2#

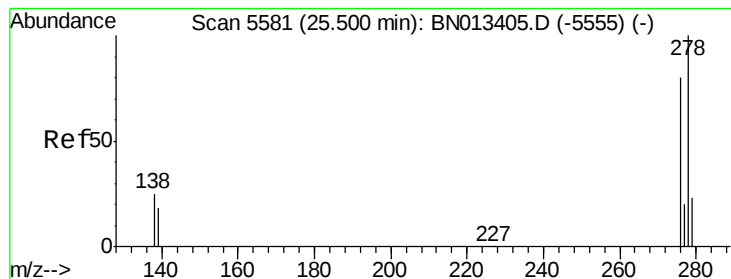


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#28

Dibenzo(a,h)anthracene

Concen: 0.074 ng/u1

RT: 25.50 min Scan# 5581

Delta R.T. -0.00 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-02

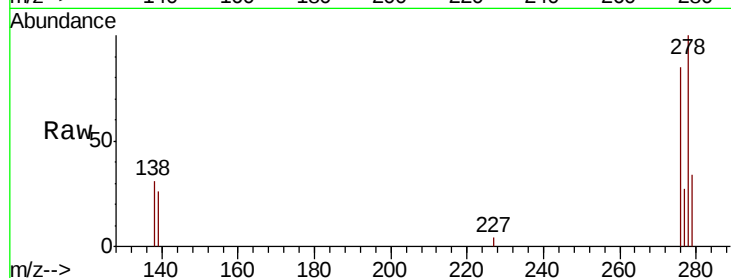
Tot Ion:278 Resp: 4543

Ion Ratio Lower Upper

278 100

139 25.8 16.2 24.4#

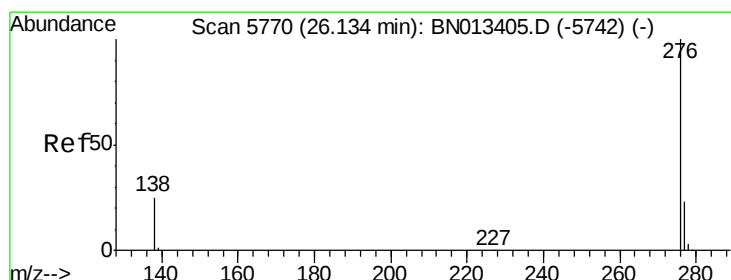
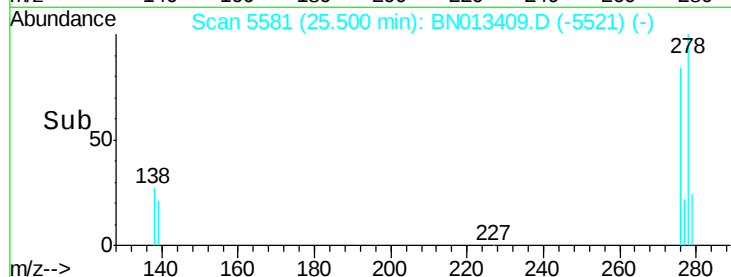
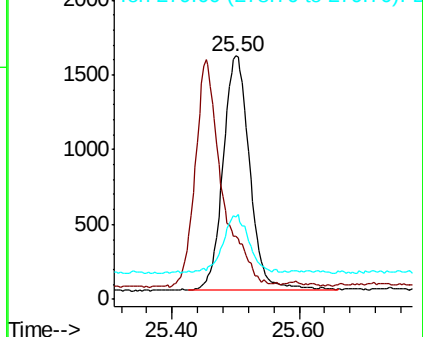
279 33.7 21.0 31.6#



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



#29

Benzo(g,h,i)perylene

Concen: 0.073 ng/u1

RT: 26.14 min Scan# 5772

Delta R.T. 0.01 min

Lab File: BN013409.D

Acq: 14 Jan 2021 13:34

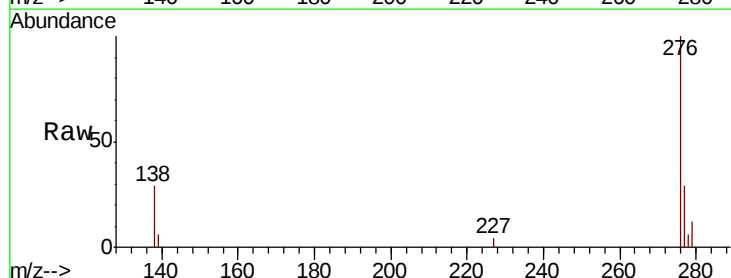
Tgt Ion:276 Resp: 4672

Ion Ratio Lower Upper

276 100

138 28.9 19.3 28.9

277 28.7 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

