

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN011321\
 Data File : BN013402.D
 Acq On : 13 Jan 2021 14:15
 Operator : CG/JU
 Sample : L5214-03
 Misc : SFAM-SIM-MDL-S-01
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-QT1-2021-01

Quant Time: Jan 13 14:49:37 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 : Wed Jan 13 14:48:29 2021
 Response via : Initial Calibration

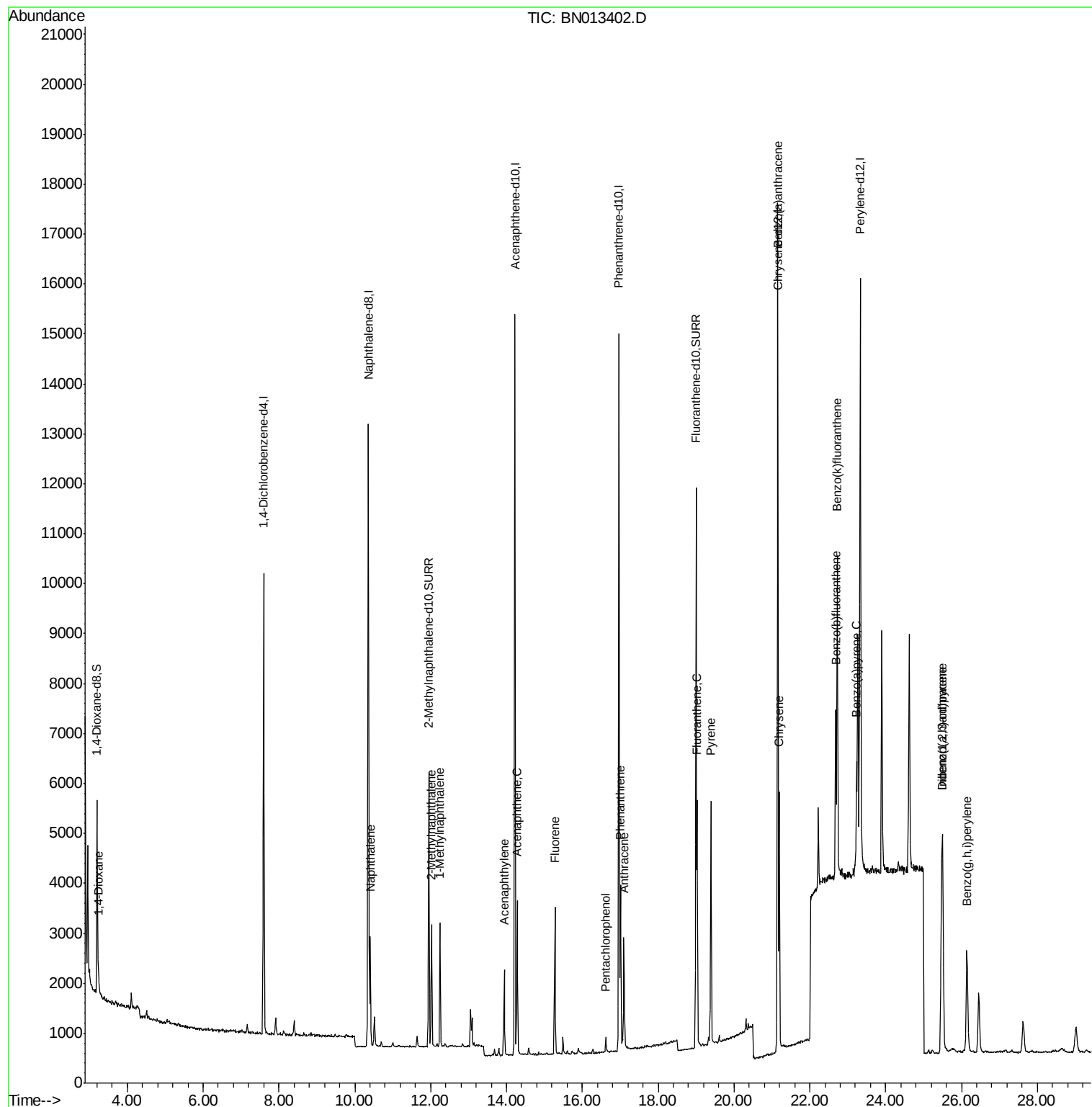
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	4554	0.40	ng/ul	0.00
4) Naphthalene-d8	10.35	136	16568	0.40	ng/ul	0.00
9) Acenaphthene-d10	14.22	164	8254	0.40	ng/ul	0.00
13) Phenanthrene-d10	16.97	188	17107	0.40	ng/ul	0.00
19) Chrysene-d12	21.16	240	14758	0.40	ng/ul	0.00
23) Perylene-d12	23.33	264	15187	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.20	96	2507	0.52	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.95	152	7209	0.29	ng/ul	0.00
17) Fluoranthene-d10	19.00	212	12482	0.28	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.24	88	270	0.056	ng/ul#	75
5) Naphthalene	10.40	128	2811	0.060	ng/ul	94
7) 2-Methylnaphthalene	12.03	142	1786	0.058	ng/ul	100
8) 1-Methylnaphthalene	12.25	142	1723	0.058	ng/ul	99
10) Acenaphthylene	13.94	152	1971	0.055	ng/ul#	95
11) Acenaphthene	14.29	153	1799	0.060	ng/ul	96
12) Fluorene	15.28	166	1919	0.056	ng/ul#	99
14) Pentachlorophenol	16.62	266	231	0.067	ng/ul	97
15) Phenanthrene	17.01	178	3469	0.064	ng/ul	95
16) Anthracene	17.10	178	2643	0.055	ng/ul#	89
18) Fluoranthene	19.03	202	4216	0.067	ng/ul#	95
20) Pyrene	19.39	202	4200	0.071	ng/ul#	94
21) Benzo(a)anthracene	21.14	228	3523	0.065	ng/ul	98
22) Chrysene	21.19	228	4343	0.073	ng/ul	97
24) Benzo(b)fluoranthene	22.68	252	4326	0.071	ng/ul	75
25) Benzo(k)fluoranthene	22.73	252	4913	0.082	ng/ul#	22
26) Benzo(a)pyrene	23.23	252	3605	0.069	ng/ul#	64
27) Indeno(1,2,3-cd)pyrene	25.49	276	5100	0.077	ng/ul#	61
28) Dibenzo(a,h)anthracene	25.51	278	4073	0.073	ng/ul#	84
29) Benzo(g,h,i)perylene	26.14	276	4033	0.069	ng/ul#	89

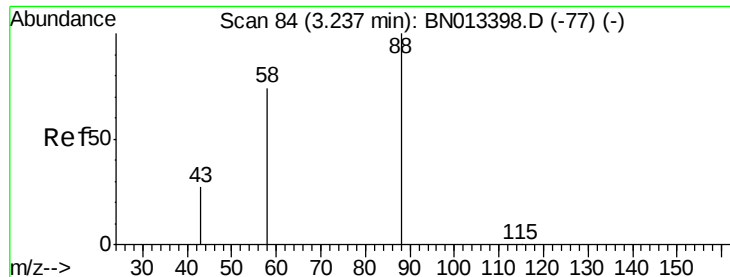
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

1,4-Dioxane

Concen: 0.056 ng/ul

RT: 3.24 min Scan# 84

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

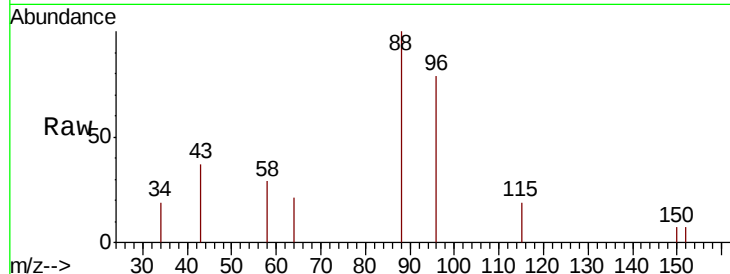
Tot Ion: 88 Resp: 270

Ion Ratio Lower Upper

88 100

43 36.6 31.5 47.3

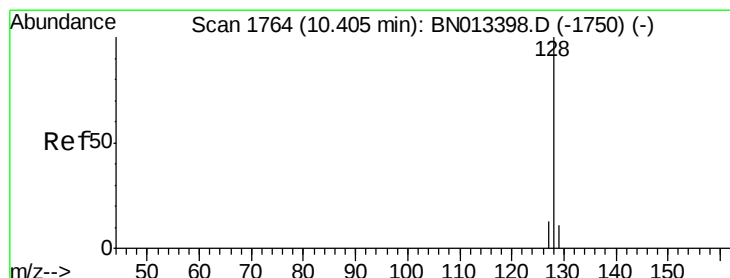
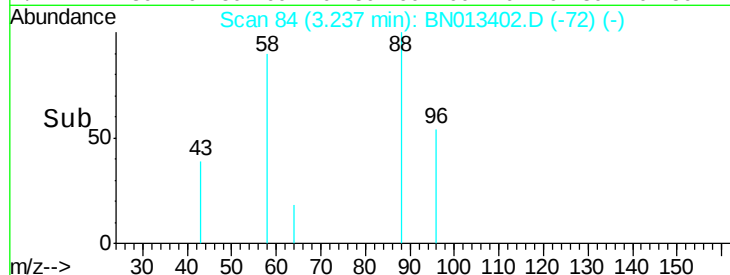
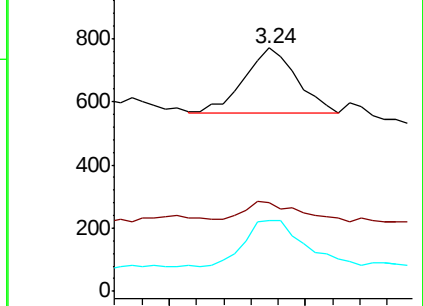
58 29.0 46.4 69.6#



Abundance Ion 88.00 (87.70 to 88.70): BN013398.D (-77) (-)

Ion 43.00 (42.70 to 43.70): BN013398.D (-77) (-)

Ion 58.00 (57.70 to 58.70): BN013398.D (-77) (-)



#5

Naphthalene

Concen: 0.060 ng/ul

RT: 10.40 min Scan# 1764

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

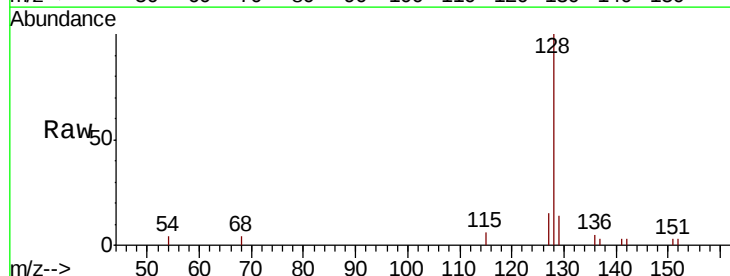
Tgt Ion: 128 Resp: 2811

Ion Ratio Lower Upper

128 100

129 13.6 9.1 13.7

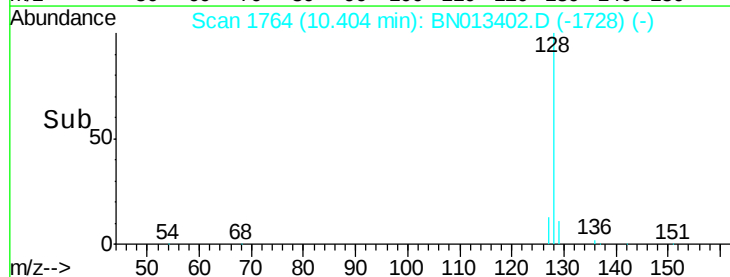
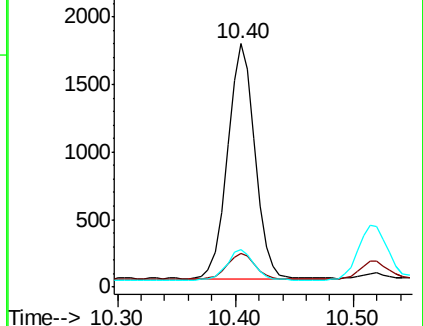
127 15.4 10.6 16.0

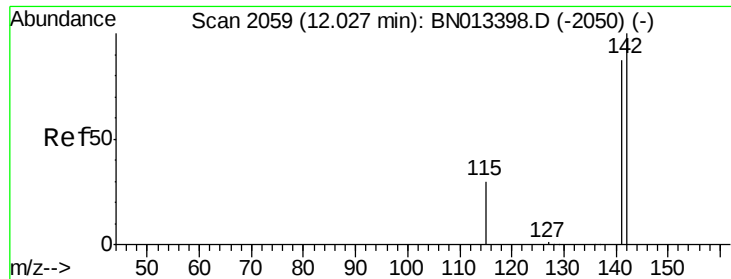


Abundance Ion 128.00 (127.70 to 128.70): BN013398.D (-1750) (-)

Ion 129.00 (128.70 to 129.70): BN013398.D (-1750) (-)

Ion 127.00 (126.70 to 127.70): BN013398.D (-1750) (-)





#7

2-Methylnaphthalene

Concen: 0.058 ng/ul

RT: 12.03 min Scan# 2059

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

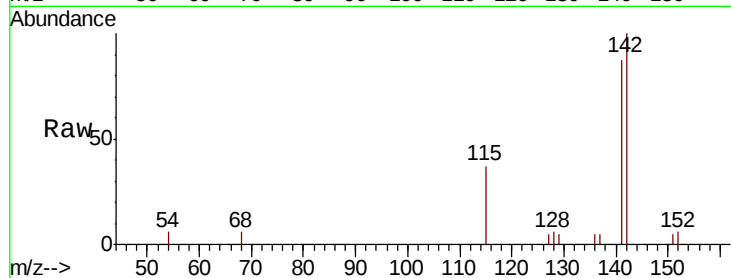
MDL-SOIL-QT1-2021-01

Tot Ion:142 Resp: 1786

Ion Ratio Lower Upper

142 100

141 88.5 70.7 106.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

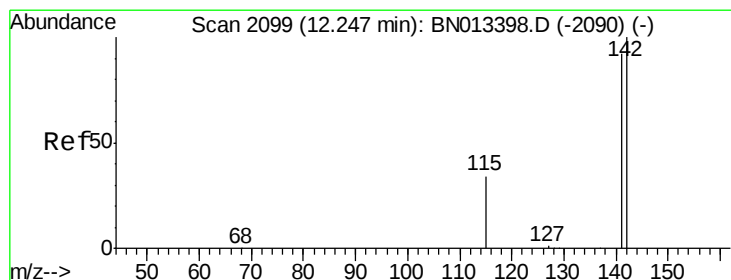
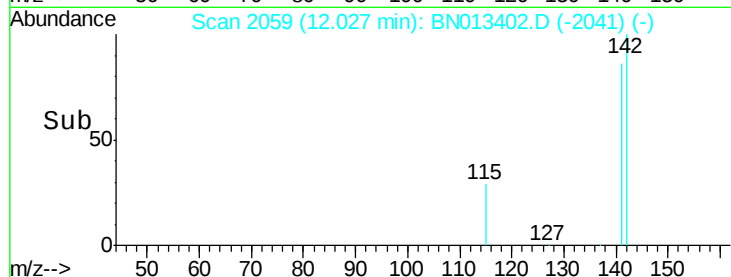
12.03

1000

500

0

Time-->



#8

1-Methylnaphthalene

Concen: 0.058 ng/ul

RT: 12.25 min Scan# 2099

Delta R.T. -0.00 min

Lab File: BN013402.D

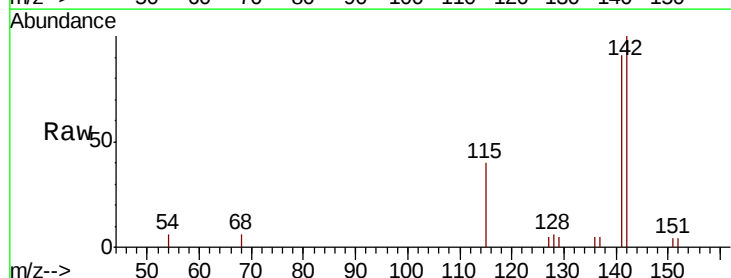
Acq: 13 Jan 2021 14:15

Tgt Ion:142 Resp: 1723

Ion Ratio Lower Upper

142 100

141 90.9 73.2 109.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

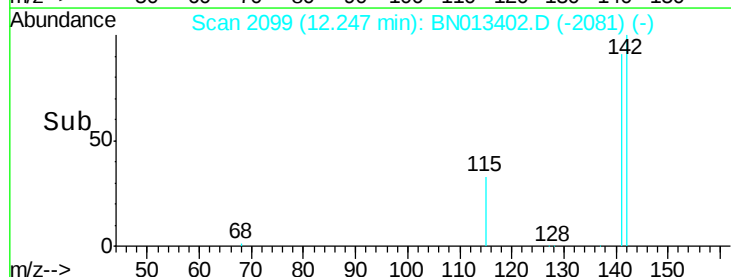
12.25

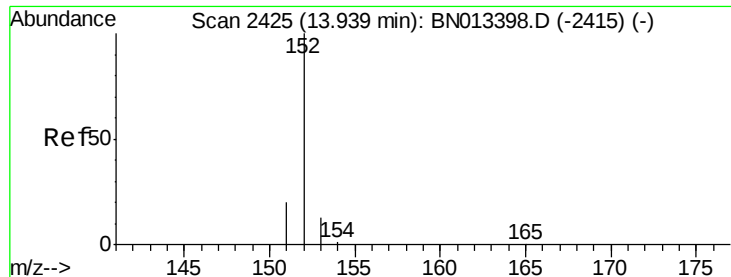
1000

500

0

Time-->





#10

Acenaphthylene

Concen: 0.055 ng/ul

RT: 13.94 min Scan# 2425

Delta R.T. 0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

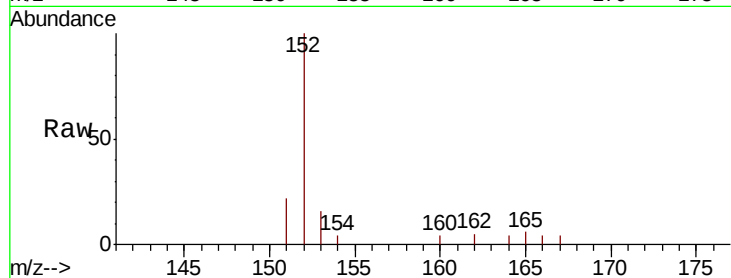
Tot Ion:152 Resp: 1971

Ion Ratio Lower Upper

152 100

151 21.9 16.2 24.4

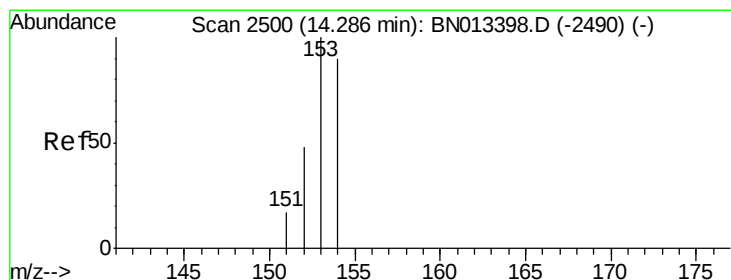
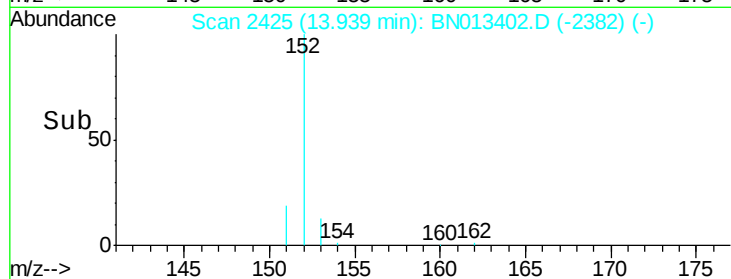
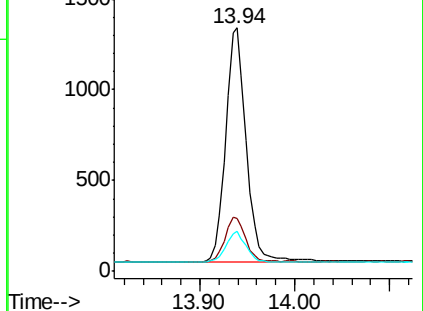
153 16.3 10.6 16.0#



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



#11

Acenaphthene

Concen: 0.060 ng/ul

RT: 14.29 min Scan# 2500

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

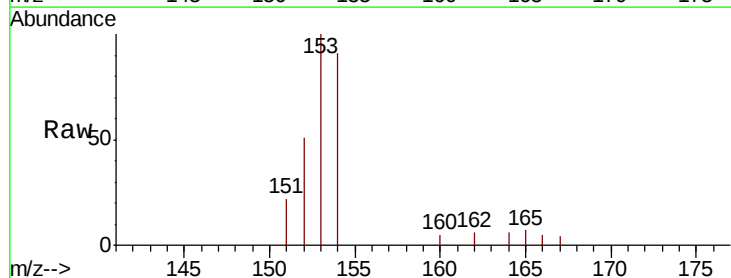
Tgt Ion:153 Resp: 1799

Ion Ratio Lower Upper

153 100

152 51.3 38.6 58.0

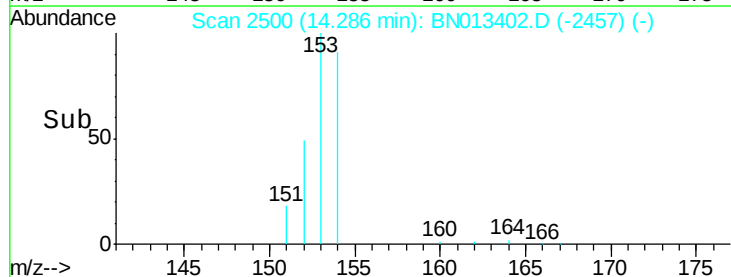
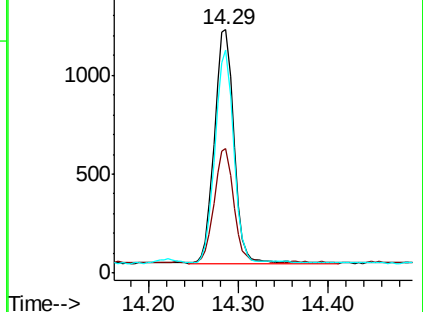
154 91.5 70.1 105.1

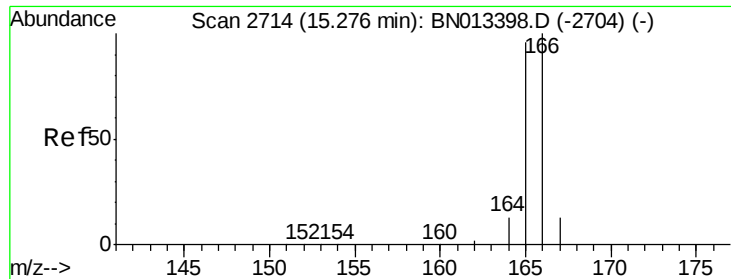


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#12

Fluorene

Concen: 0.056 ng/ul

RT: 15.28 min Scan# 2714

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

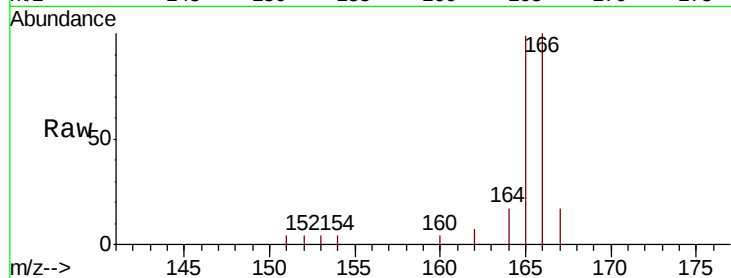
Tot Ion:166 Resp: 1919

Ion Ratio Lower Upper

166 100

165 98.7 79.0 118.4

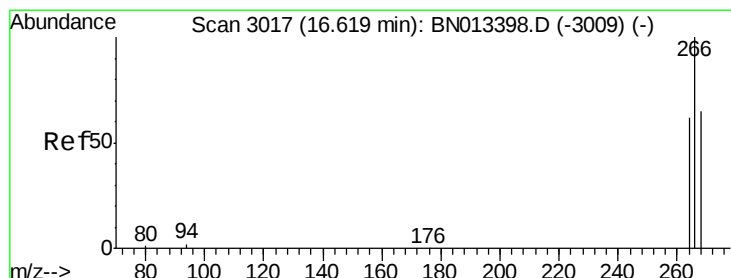
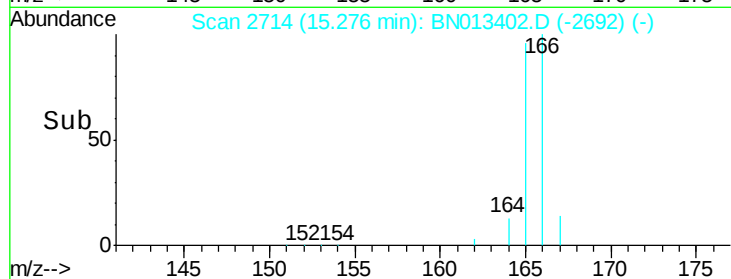
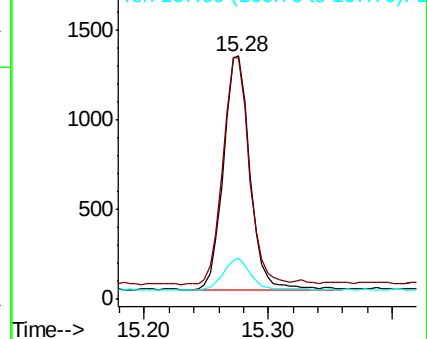
167 16.9 11.1 16.7#



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



#14

Pentachlorophenol

Concen: 0.067 ng/ul

RT: 16.62 min Scan# 3017

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

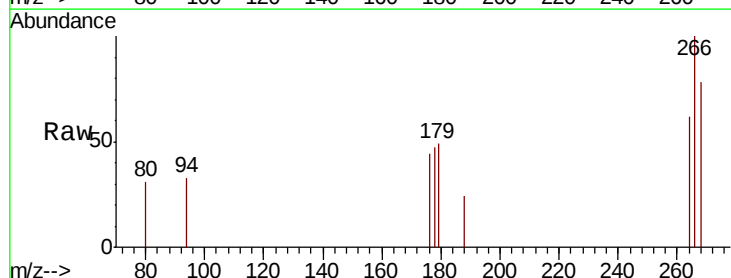
Tgt Ion:266 Resp: 231

Ion Ratio Lower Upper

266 100

264 61.9 49.5 74.3

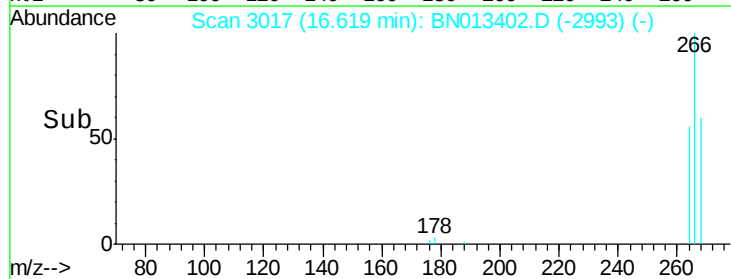
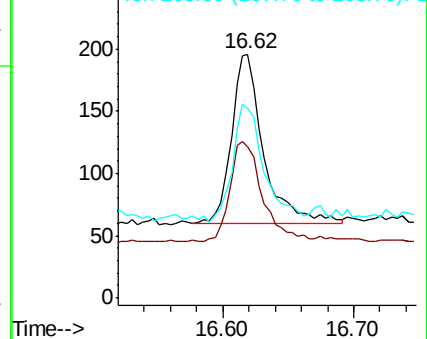
268 68.8 51.7 77.5

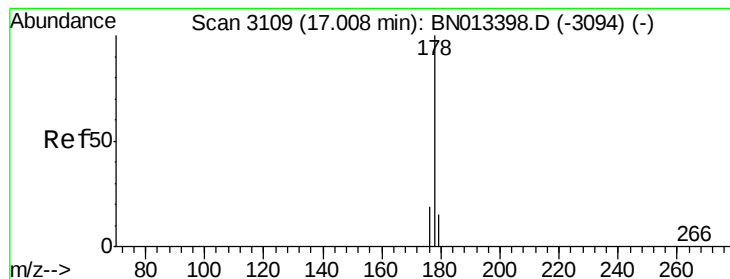


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#15

Phenanthrene

Concen: 0.064 ng/ul

RT: 17.01 min Scan# 3109

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

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ClientSampleId :

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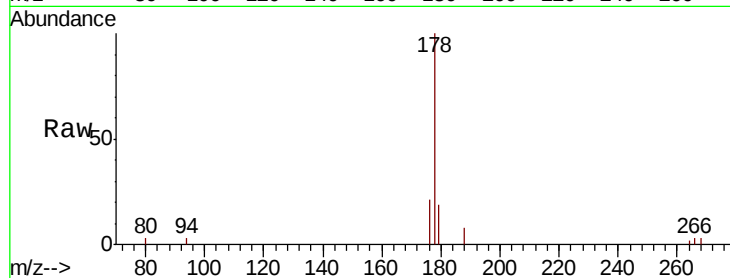
Tot Ion:178 Resp: 3469

Ion Ratio Lower Upper

178 100

179 18.5 12.7 19.1

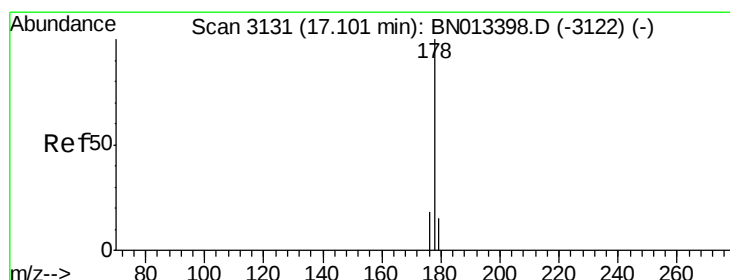
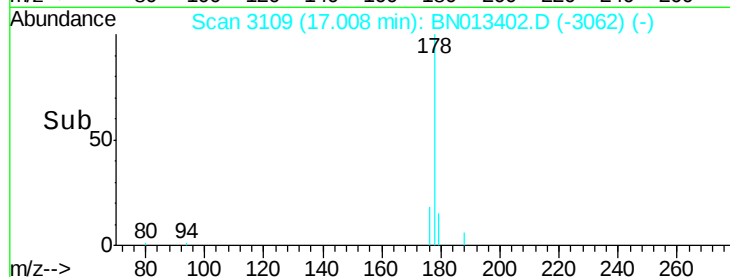
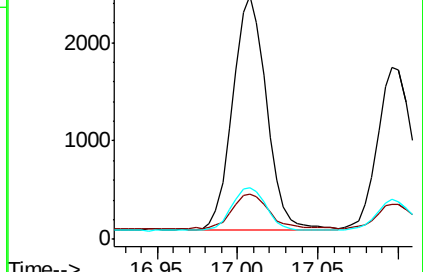
176 21.0 15.4 23.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#16

Anthracene

Concen: 0.055 ng/ul

RT: 17.10 min Scan# 3130

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

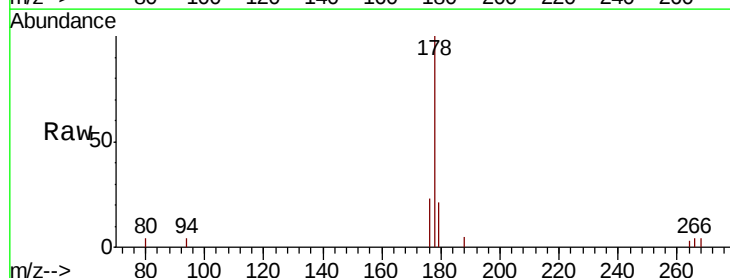
Tgt Ion:178 Resp: 2643

Ion Ratio Lower Upper

178 100

179 20.7 12.7 19.1#

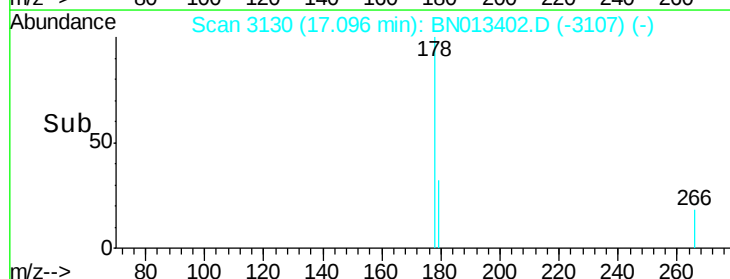
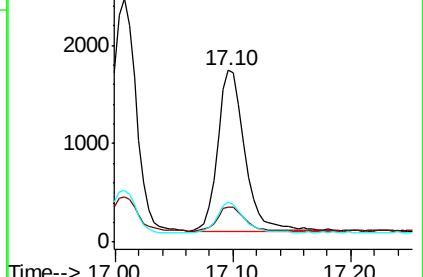
176 23.5 14.7 22.1#

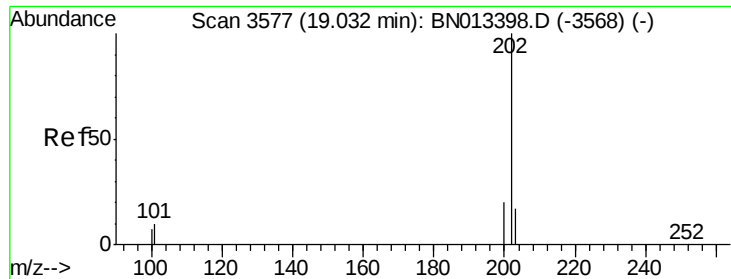


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#18

Fluoranthene

Concen: 0.067 ng/ul

RT: 19.03 min Scan# 3576

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

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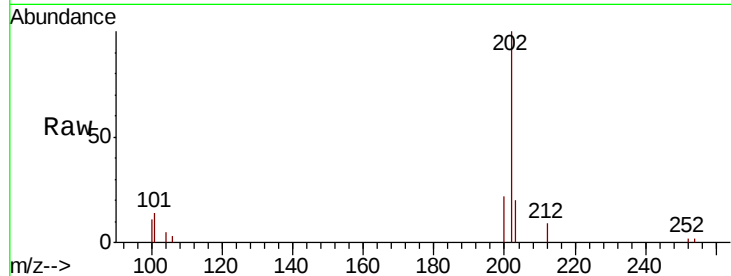
Tot Ion:202 Resp: 4216

Ion Ratio Lower Upper

202 100

101 13.7 9.3 13.9

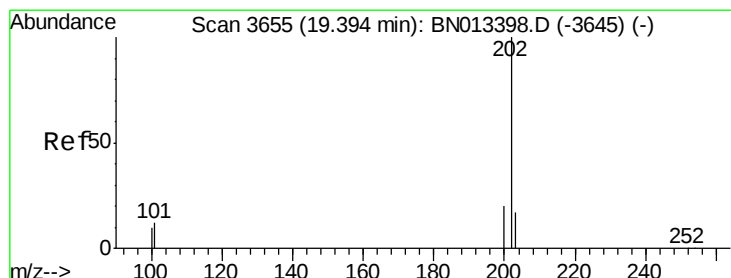
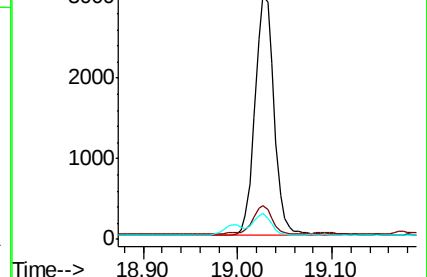
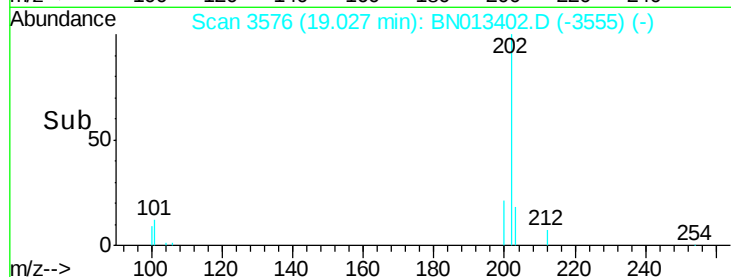
100 10.6 7.0 10.4#



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: 0.071 ng/ul

RT: 19.39 min Scan# 3654

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

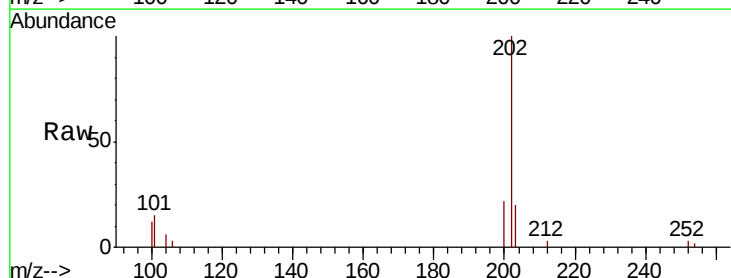
Tgt Ion:202 Resp: 4200

Ion Ratio Lower Upper

202 100

101 14.6 9.7 14.5#

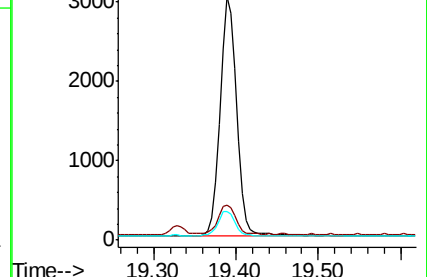
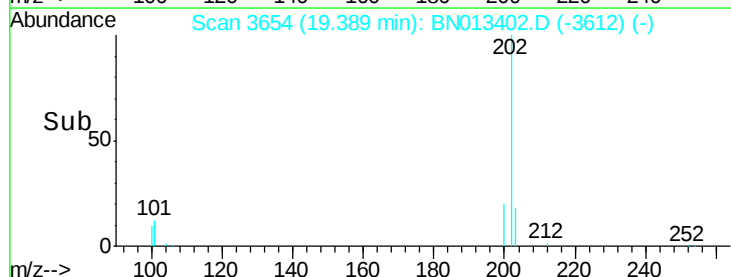
100 11.9 7.6 11.4#

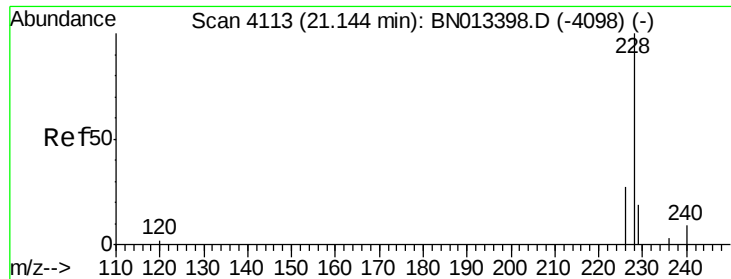


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 0.065 ng/ul

RT: 21.14 min Scan# 4113

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

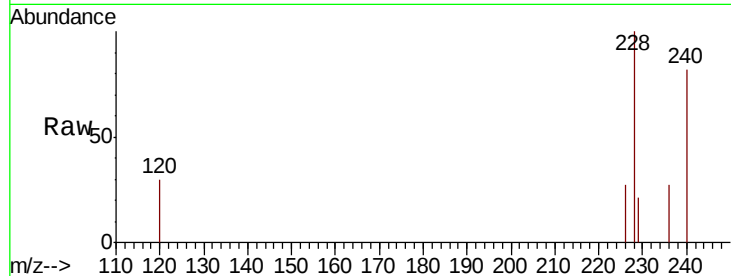
Tot Ion:228 Resp: 3523

Ion Ratio Lower Upper

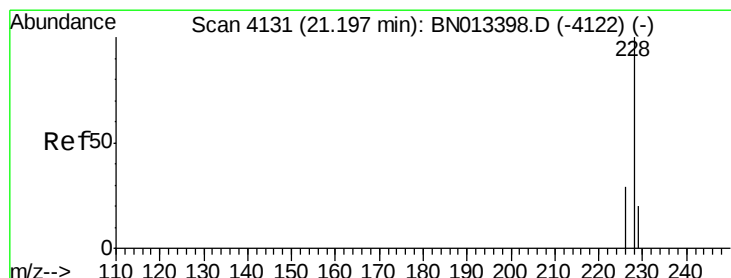
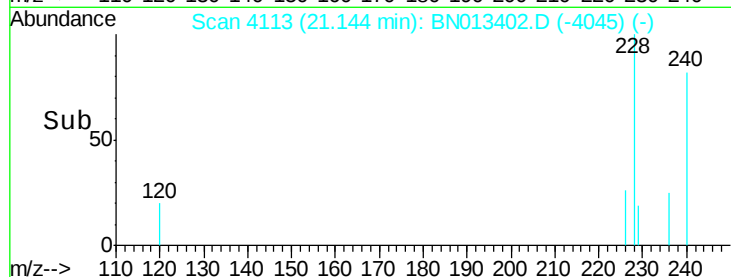
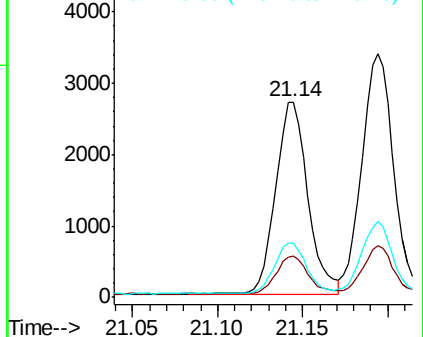
228 100

229 20.9 15.8 23.6

226 27.5 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# 4130

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

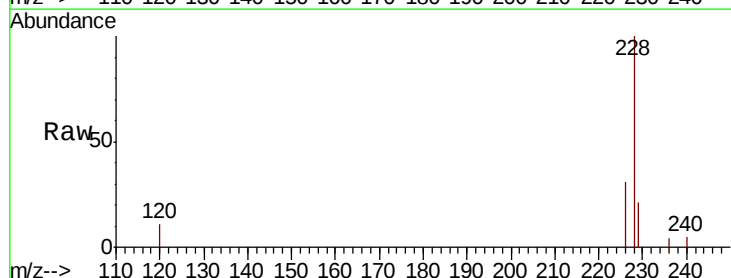
Tgt Ion:228 Resp: 4343

Ion Ratio Lower Upper

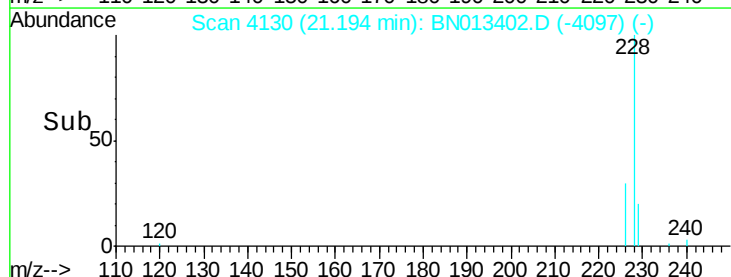
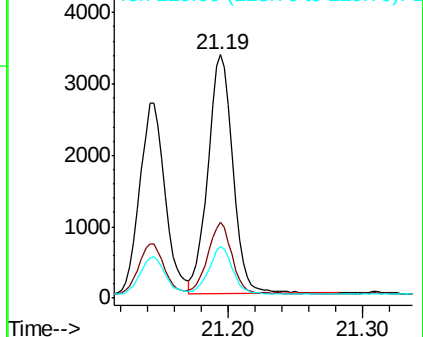
228 100

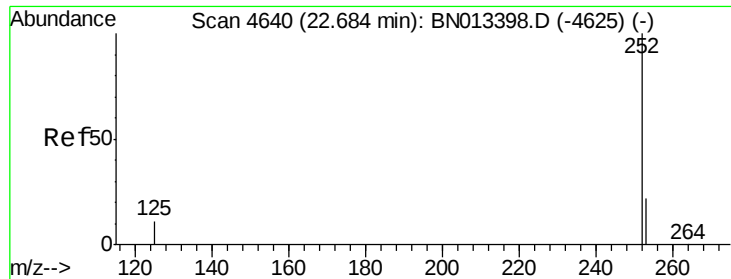
226 31.0 23.6 35.4

229 21.0 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: 0.071 ng/ul

RT: 22.68 min Scan# 4639

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

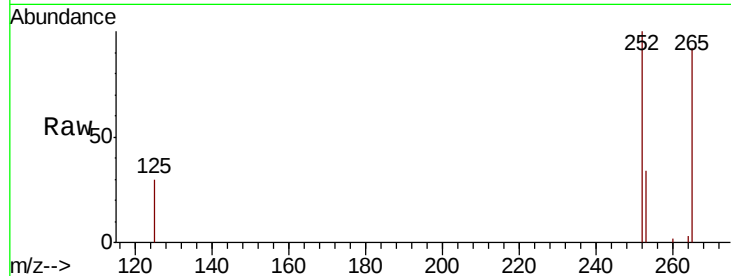
Tot Ion:252 Resp: 4326

Ion Ratio Lower Upper

252 100

253 34.5 0.0 49.6

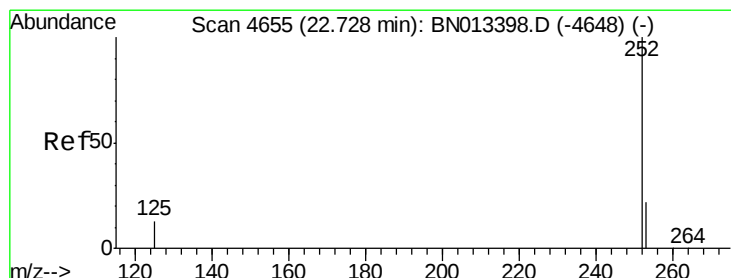
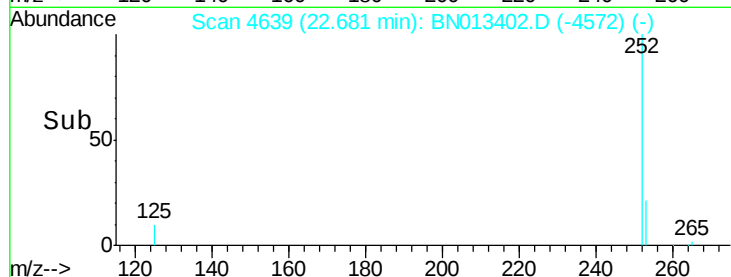
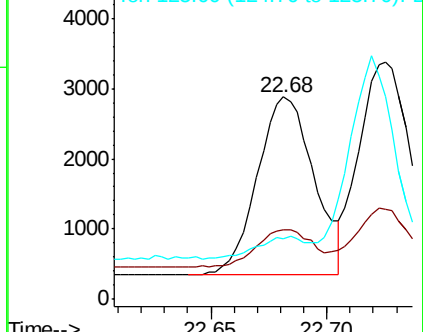
125 29.8 0.0 31.8



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: 0.082 ng/ul

RT: 22.73 min Scan# 4654

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

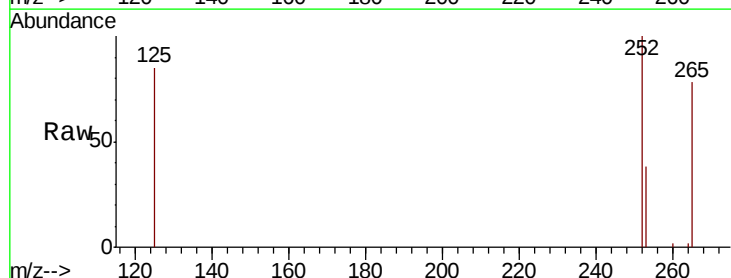
Tgt Ion:252 Resp: 4913

Ion Ratio Lower Upper

252 100

253 38.0 20.3 30.5#

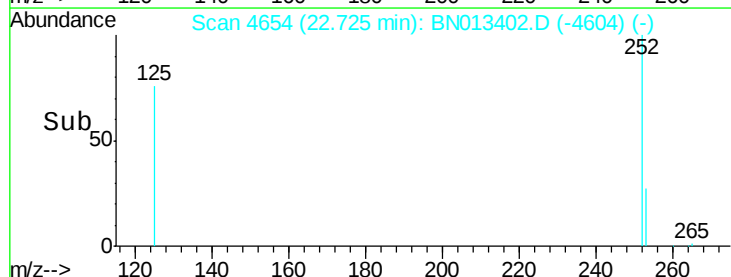
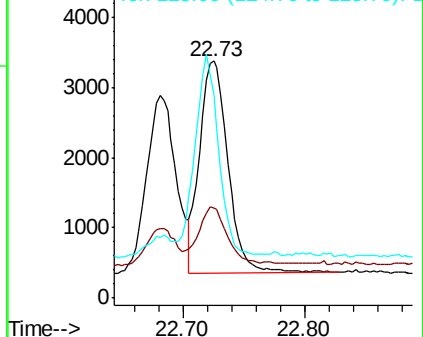
125 85.4 13.3 19.9#

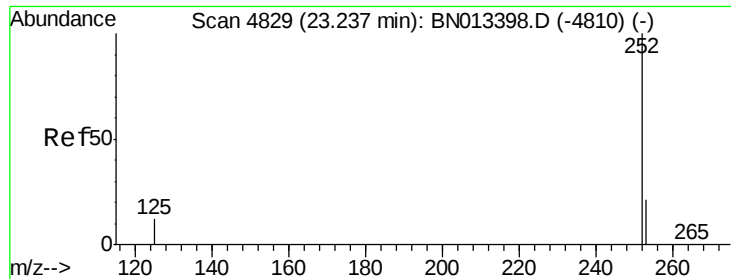


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 0.069 ng/u1

RT: 23.23 min Scan# 4828

Delta R.T. -0.00 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

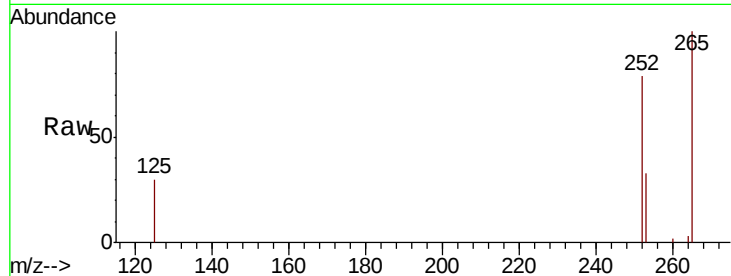
Tot Ion:252 Resp: 3605

Ion Ratio Lower Upper

252 100

253 41.7 21.3 31.9#

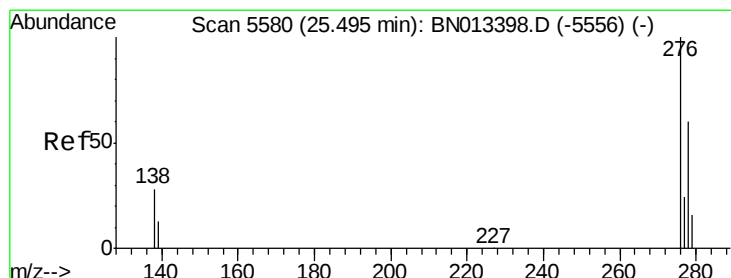
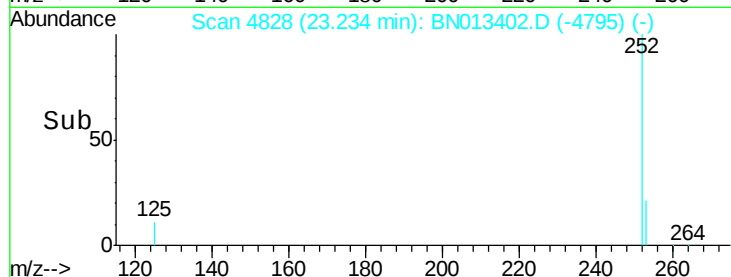
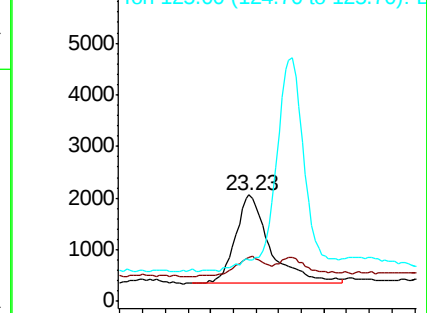
125 38.7 14.8 22.2#



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: 0.077 ng/u1

RT: 25.49 min Scan# 5577

Delta R.T. -0.01 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

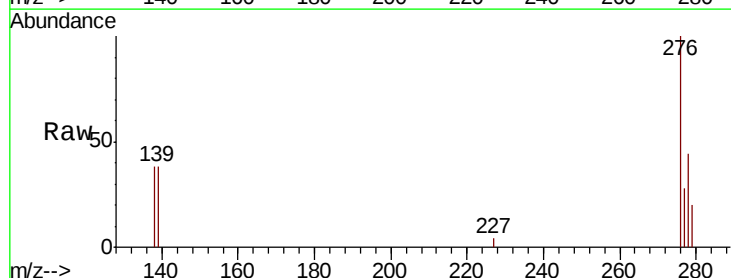
Tgt Ion:276 Resp: 5100

Ion Ratio Lower Upper

276 100

138 48.9 22.6 33.8#

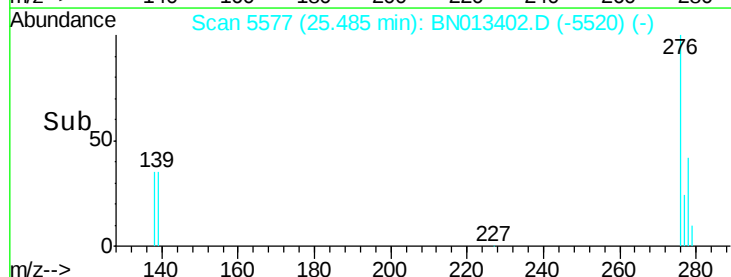
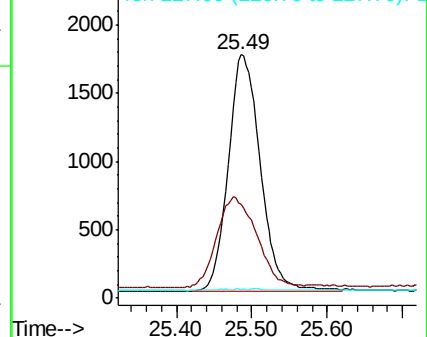
227 0.2 0.2 0.2

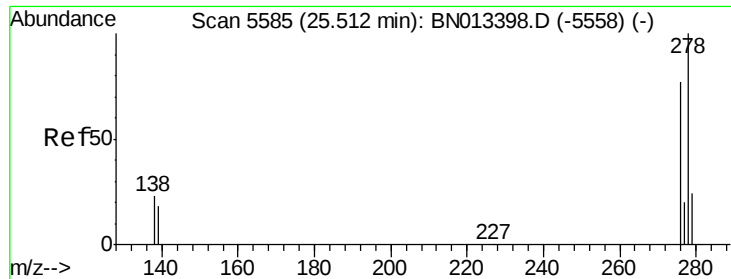


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#28

Dibenzo(a,h)anthracene

Concen: 0.073 ng/ul

RT: 25.51 min Scan# 5583

Delta R.T. -0.01 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT1-2021-01

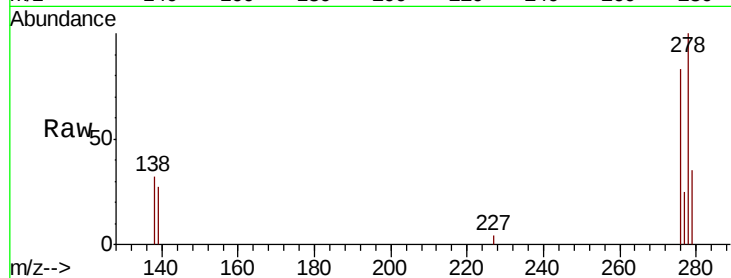
Tot Ion:278 Resp: 4073

Ion Ratio Lower Upper

278 100

139 27.3 16.2 24.4#

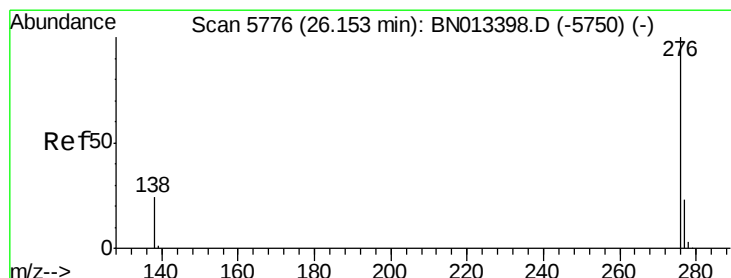
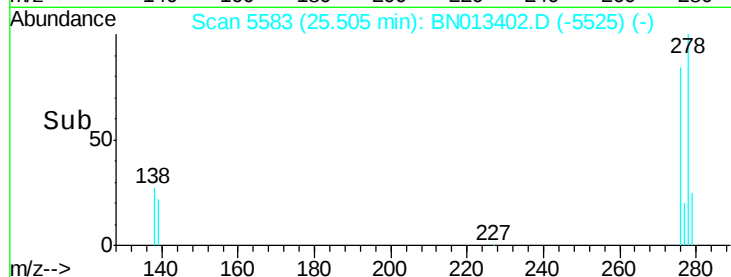
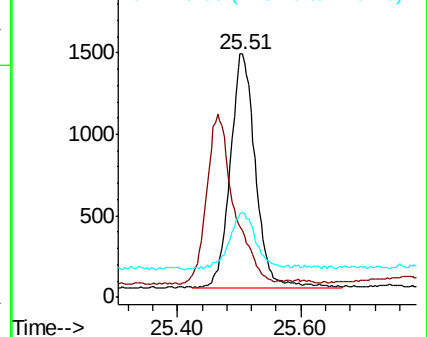
279 35.0 21.0 31.6#



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: 0.069 ng/ul

RT: 26.14 min Scan# 5773

Delta R.T. -0.01 min

Lab File: BN013402.D

Acq: 13 Jan 2021 14:15

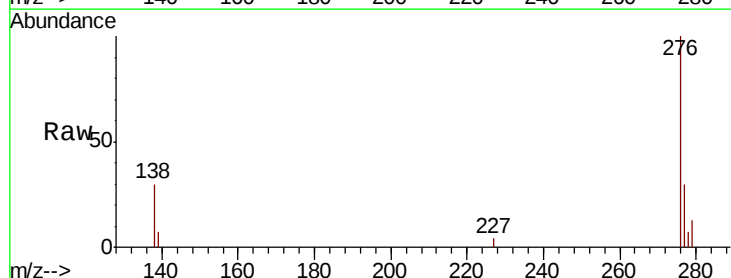
Tgt Ion:276 Resp: 4033

Ion Ratio Lower Upper

276 100

138 30.2 19.3 28.9#

277 29.7 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

