

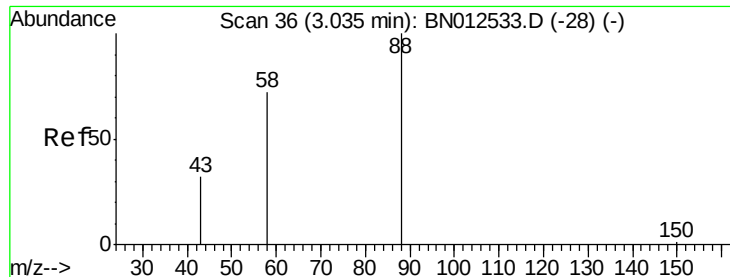
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111020\
 Data File : BN012535.D
 Acq On : 10 Nov 2020 17:16
 Operator : CG/JU
 Sample : L4485-01
 Misc : MDL-S-01
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-01

Quant Time: Nov 10 17:50:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SFAM-EPA-SIM-BN111020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 10 14:27:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	810	0.40	ng/ul	0.00
4) Naphthalene-d8	10.24	136	3045	0.40	ng/ul	0.00
9) Acenaphthene-d10	14.12	164	1658	0.40	ng/ul	0.00
13) Phenanthrene-d10	16.88	188	3131	0.40	ng/ul	0.00
19) Chrysene-d12	21.08	240	2754	0.40	ng/ul	0.00
23) Perylene-d12	23.20	264	2896	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.01	96	646	0.59	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.86	152	1137	0.26	ng/ul	0.02
17) Fluoranthene-d10	18.91	212	2258	0.29	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.04	88	83	0.075	ng/ul#	85
5) Naphthalene	10.29	128	573	0.067	ng/ul#	60
7) 2-Methylnaphthalene	11.92	142	347	0.063	ng/ul	95
8) 1-Methylnaphthalene	12.14	142	336	0.063	ng/ul	97
10) Acenaphthylene	13.84	152	458	0.063	ng/ul#	70
11) Acenaphthene	14.19	153	407	0.065	ng/ul#	93
12) Fluorene	15.19	166	408	0.058	ng/ul#	91
14) Pentachlorophenol	16.54	266	40	0.047	ng/ul#	82
15) Phenanthrene	16.92	178	653	0.063	ng/ul#	72
16) Anthracene	17.02	178	477	0.056	ng/ul#	60
18) Fluoranthene	18.94	202	838	0.073	ng/ul#	82
20) Pyrene	19.31	202	876	0.067	ng/ul#	83
21) Benzo(a)anthracene	21.07	228	687	0.068	ng/ul#	92
22) Chrysene	21.12	228	902	0.075	ng/ul#	88
24) Benzo(b)fluoranthene	22.58	252	845	0.068	ng/ul#	48
25) Benzo(k)fluoranthene	22.62	252	993	0.070	ng/ul#	47
26) Benzo(a)pyrene	23.11	252	883	0.076	ng/ul#	22
27) Indeno(1,2,3-cd)pyrene	25.30	276	1032	0.067	ng/ul#	93
28) Dibenzo(a,h)anthracene	25.32	278	803	0.065	ng/ul#	31
29) Benzo(g,h,i)perylene	25.93	276	940	0.066	ng/ul#	78

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



#2

1,4-Dioxane

Concen: 0.075 ng/ul

RT: 3.04 min Scan# 38

Delta R.T. 0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

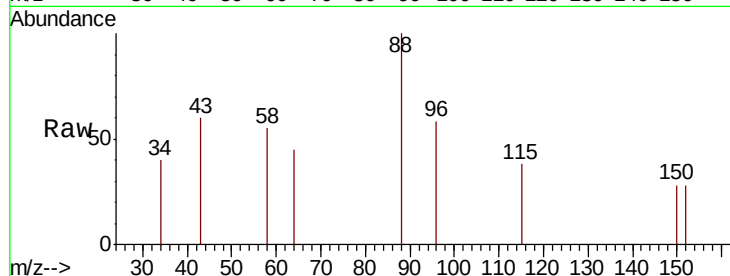
Tot Ion: 88 Resp: 83

Ion Ratio Lower Upper

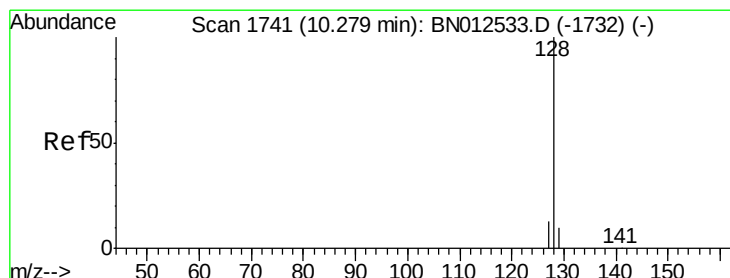
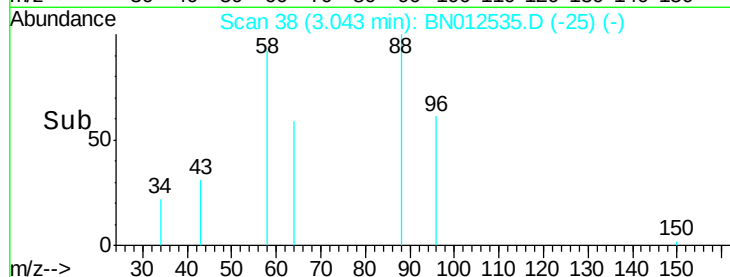
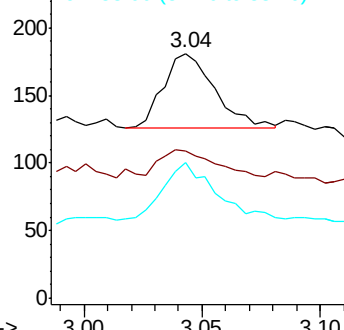
88 100

43 60.2 42.7 64.1

58 55.2 57.3 85.9#



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



#5

Naphthalene

Concen: 0.067 ng/ul

RT: 10.29 min Scan# 1743

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

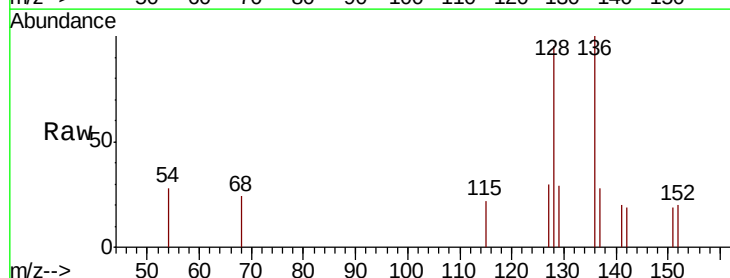
Tgt Ion: 128 Resp: 573

Ion Ratio Lower Upper

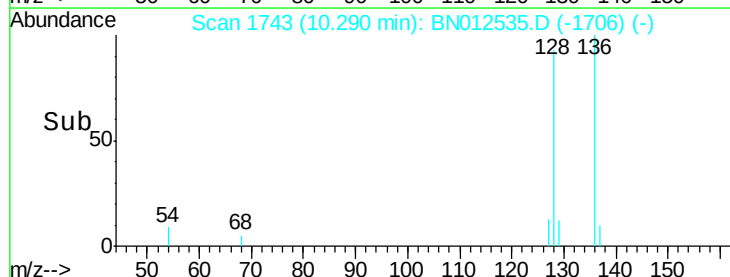
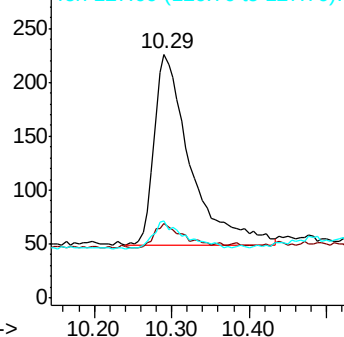
128 100

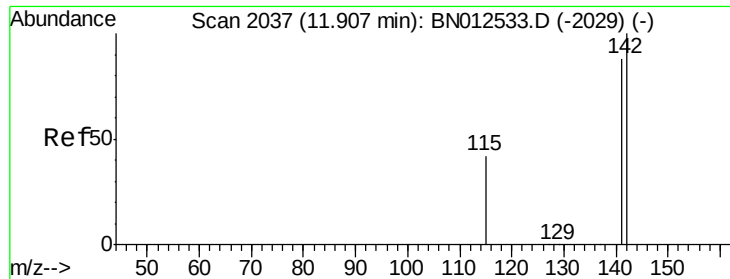
129 30.5 11.1 16.7#

127 31.9 12.6 18.8#



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





#7

2-Methylnaphthalene

Concen: 0.063 ng/ul

RT: 11.92 min Scan# 2040

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

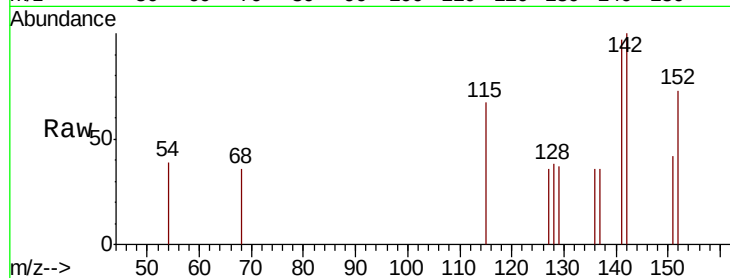
MDL-SOIL-01

Tot Ion:142 Resp: 347

Ion Ratio Lower Upper

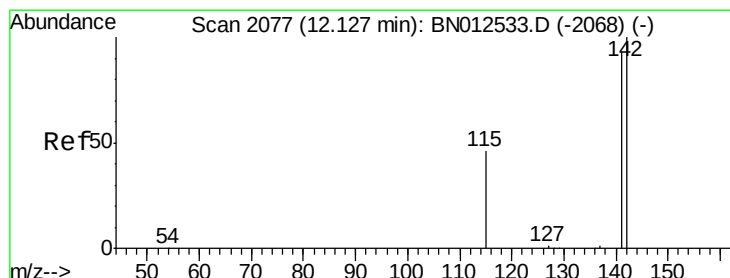
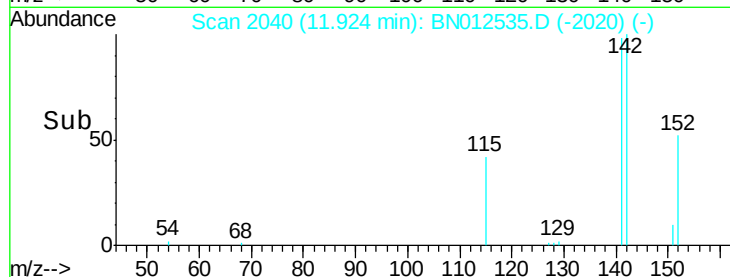
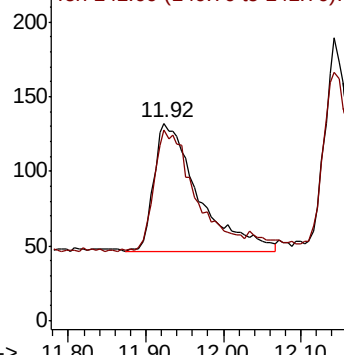
142 100

141 85.0 72.1 108.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#8

1-Methylnaphthalene

Concen: 0.063 ng/ul

RT: 12.14 min Scan# 2080

Delta R.T. 0.01 min

Lab File: BN012535.D

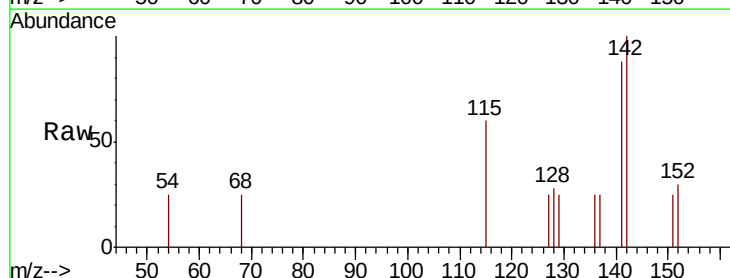
Acq: 10 Nov 2020 17:16

Tgt Ion:142 Resp: 336

Ion Ratio Lower Upper

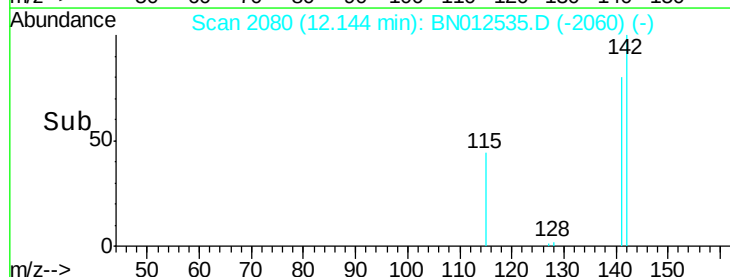
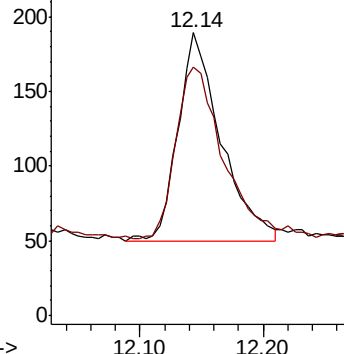
142 100

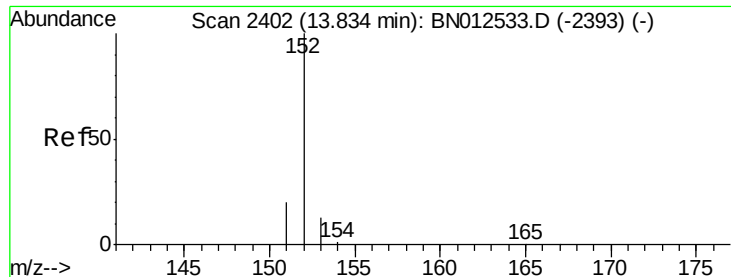
141 91.4 75.3 112.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#10

Acenaphthylene

Concen: 0.063 ng/ul

RT: 13.84 min Scan# 2404

Delta R.T. 0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

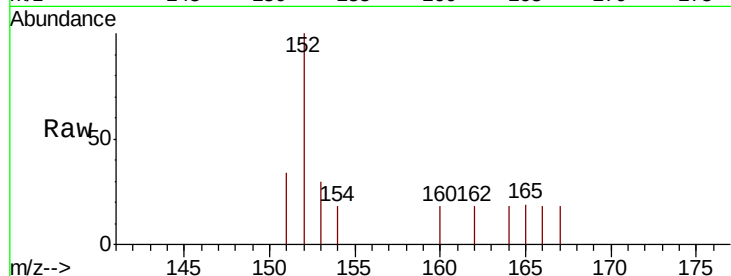
Tot Ion:152 Resp: 458

Ion Ratio Lower Upper

152 100

151 34.2 17.0 25.4#

153 30.0 12.5 18.7#



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

13.84

300

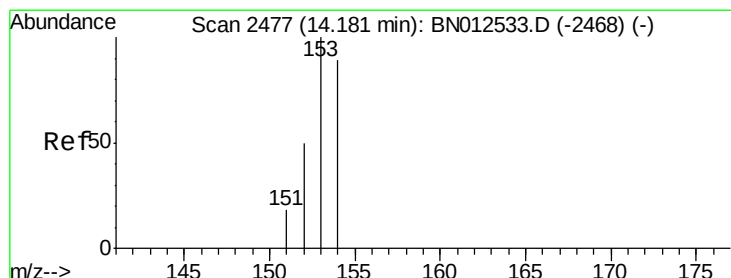
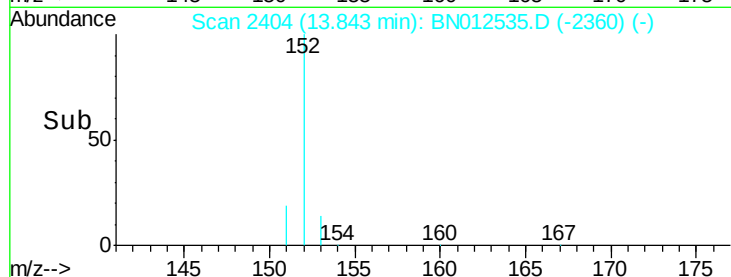
200

100

0

13.80 13.90 14.00

Time-->



#11

Acenaphthene

Concen: 0.065 ng/ul

RT: 14.19 min Scan# 2478

Delta R.T. -0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

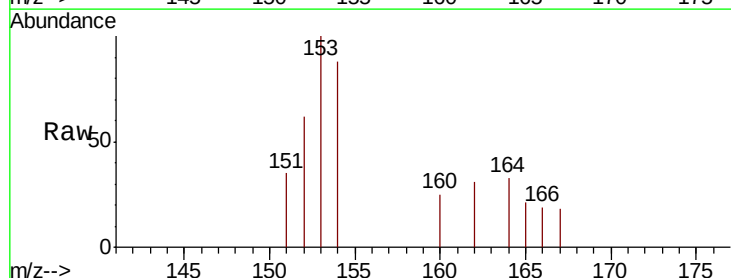
Tgt Ion:153 Resp: 407

Ion Ratio Lower Upper

153 100

152 62.3 39.9 59.9#

154 87.7 69.9 104.9



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

14.19

300

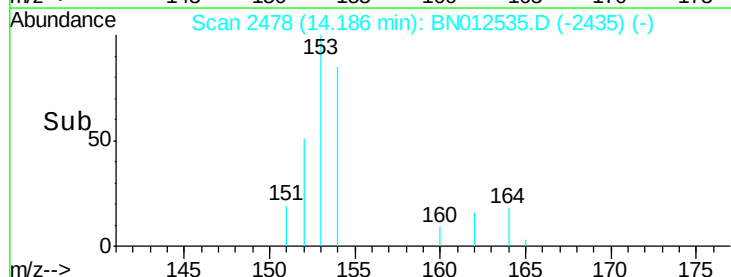
200

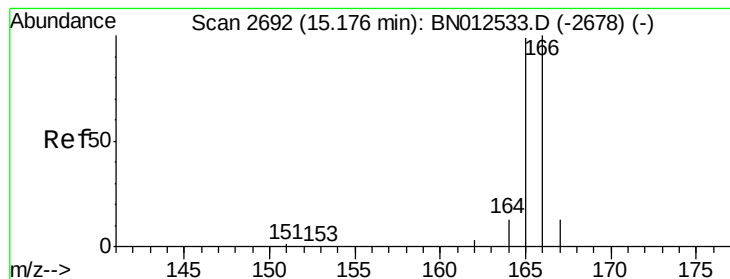
100

0

14.10 14.20 14.30

Time-->





#12

Fluorene

Concen: 0.058 ng/ul

RT: 15.19 min Scan# 2696

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

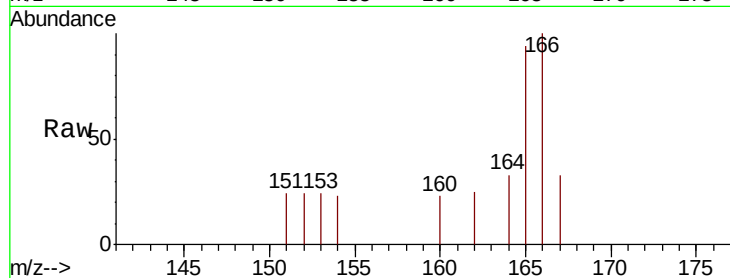
Tot Ion:166 Resp: 408

Ion Ratio Lower Upper

166 100

165 94.4 78.6 117.8

167 32.7 12.6 19.0#



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

15.19

200

150

100

50

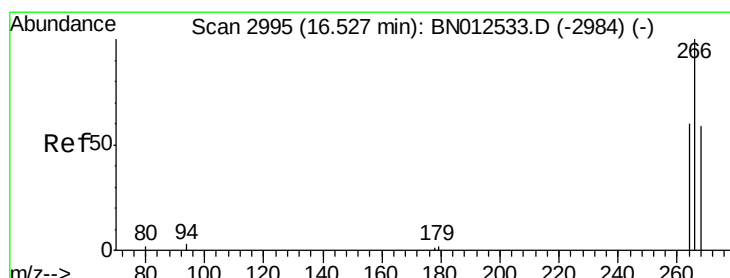
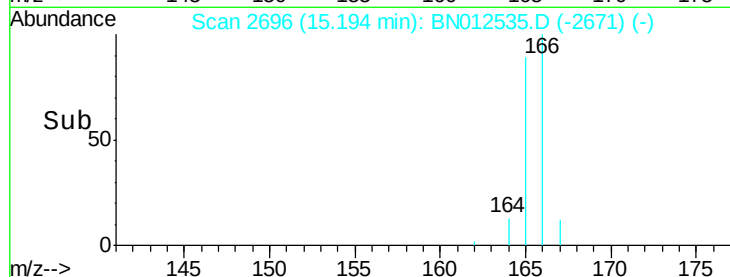
0

Time-->

15.10

15.20

15.30



#14

Pentachlorophenol

Concen: 0.047 ng/ul

RT: 16.54 min Scan# 2999

Delta R.T. 0.02 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

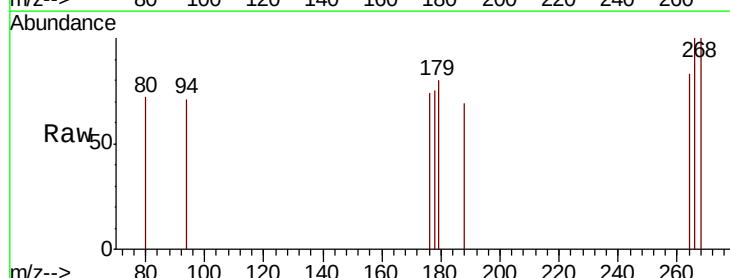
Tgt Ion:266 Resp: 40

Ion Ratio Lower Upper

266 100

264 75.0 48.6 73.0#

268 82.5 55.2 82.8



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

16.54

80

60

40

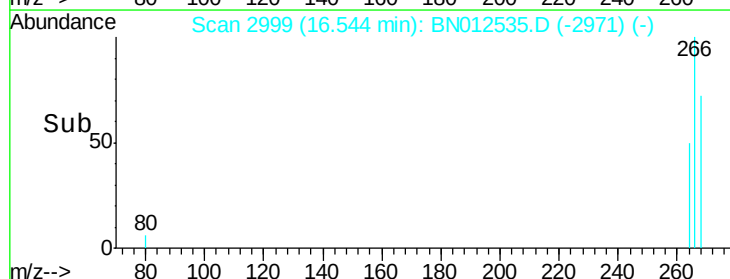
20

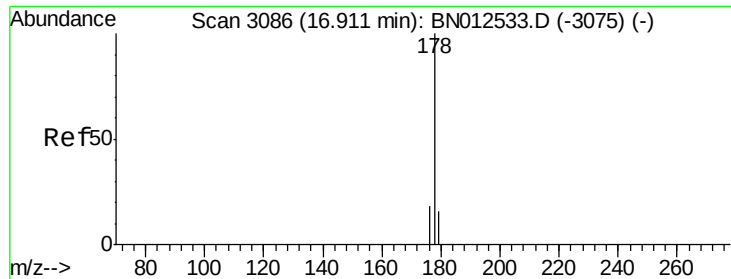
0

Time-->

16.50

16.55





#15

Phenanthrene

Concen: 0.063 ng/ul

RT: 16.92 min Scan# 3087

Delta R.T. 0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

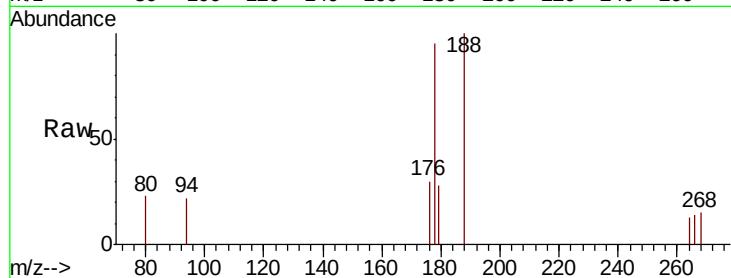
Tot Ion:178 Resp: 653

Ion Ratio Lower Upper

178 100

179 29.5 13.0 19.6#

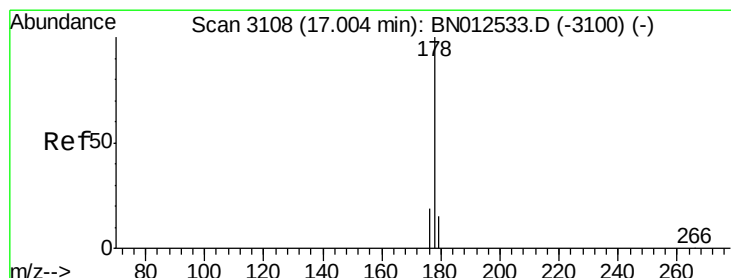
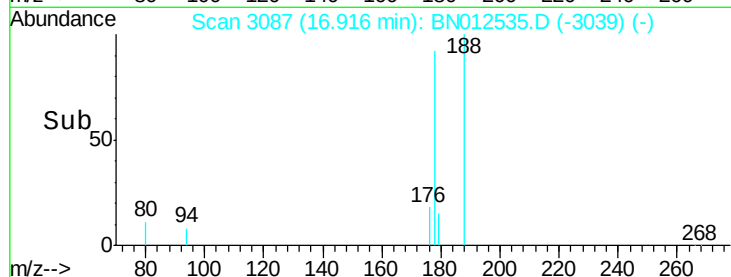
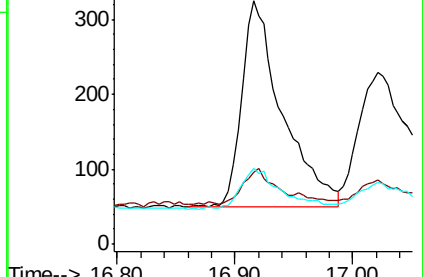
176 31.4 15.8 23.8#



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: 0.056 ng/ul

RT: 17.02 min Scan# 3112

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

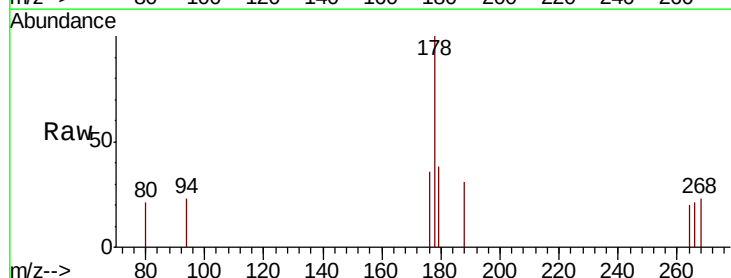
Tgt Ion:178 Resp: 477

Ion Ratio Lower Upper

178 100

179 37.6 14.2 21.4#

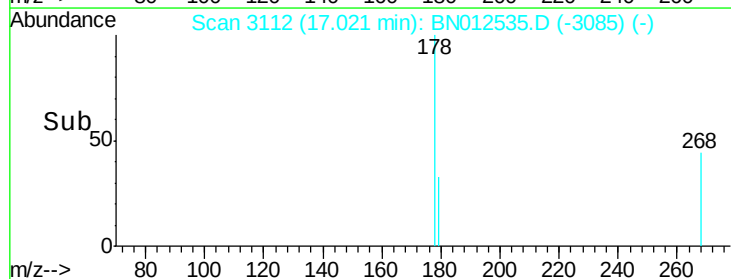
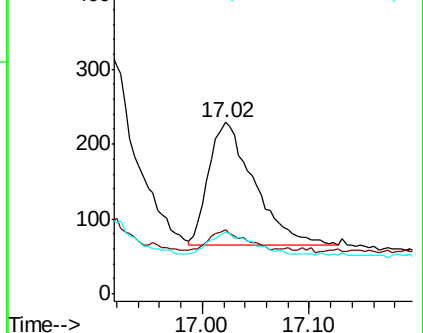
176 36.2 15.9 23.9#

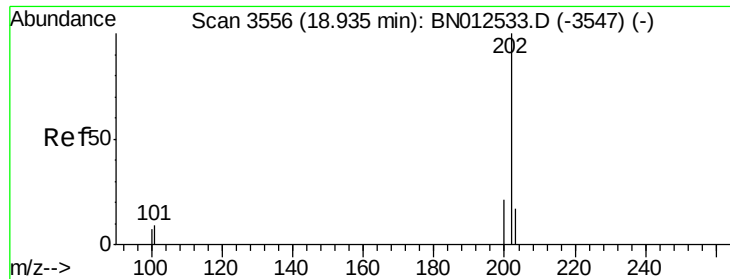


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#18

Fluoranthene

Concen: 0.073 ng/ul

RT: 18.94 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

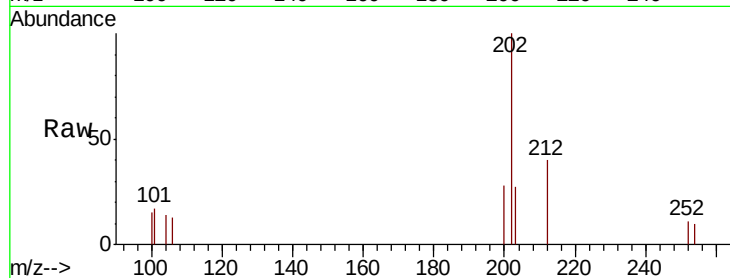
Tot Ion:202 Resp: 838

Ion Ratio Lower Upper

202 100

101 17.5 8.2 12.2#

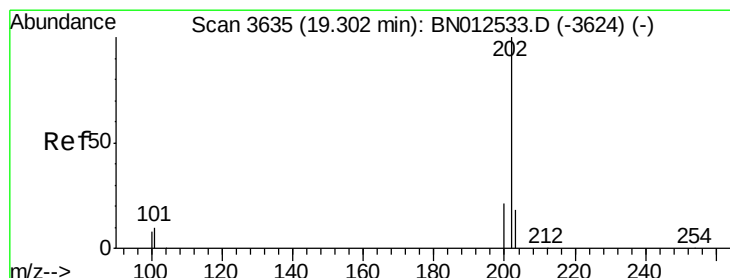
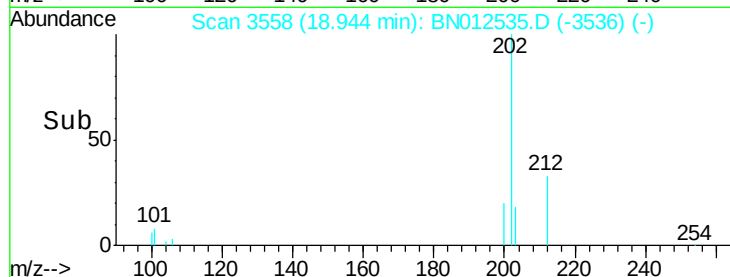
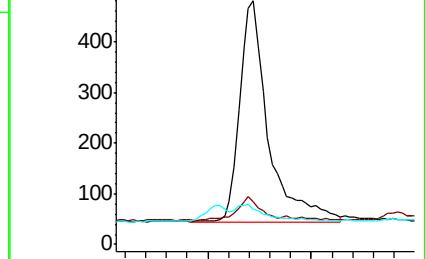
100 14.6 6.9 10.3#



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: 0.067 ng/ul

RT: 19.31 min Scan# 3636

Delta R.T. 0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

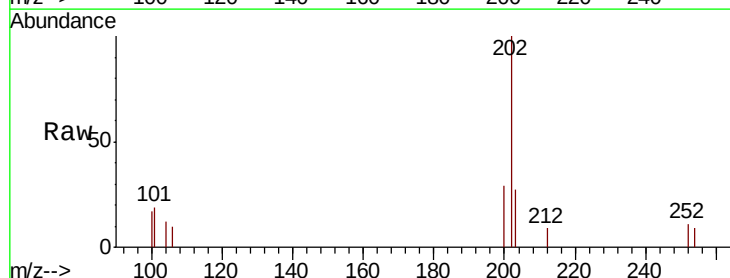
Tgt Ion:202 Resp: 876

Ion Ratio Lower Upper

202 100

101 18.9 9.4 14.2#

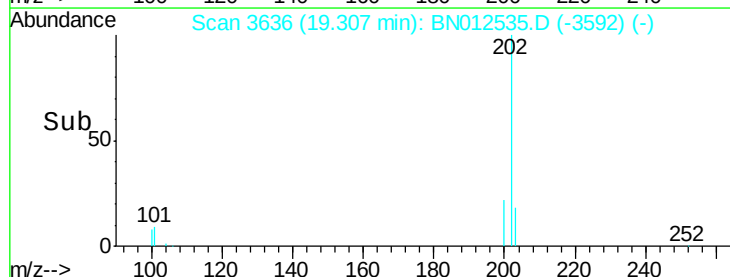
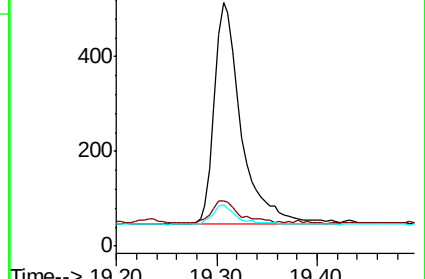
100 16.9 8.6 12.8#

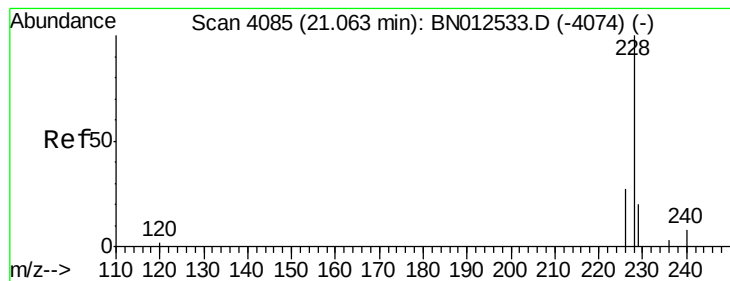


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 0.068 ng/ul

RT: 21.07 min Scan# 4087

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

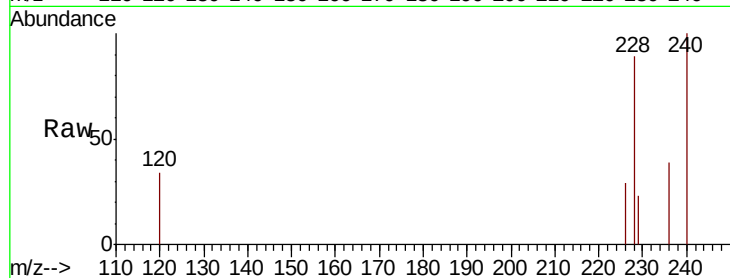
Tot Ion:228 Resp: 687

Ion Ratio Lower Upper

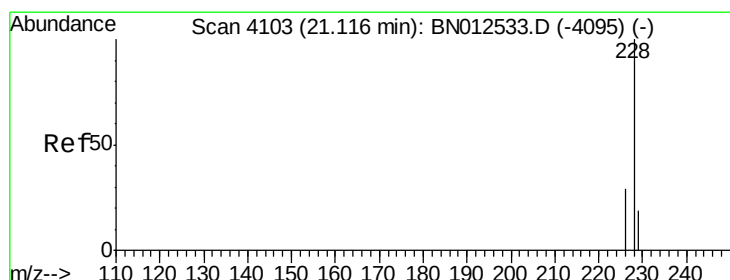
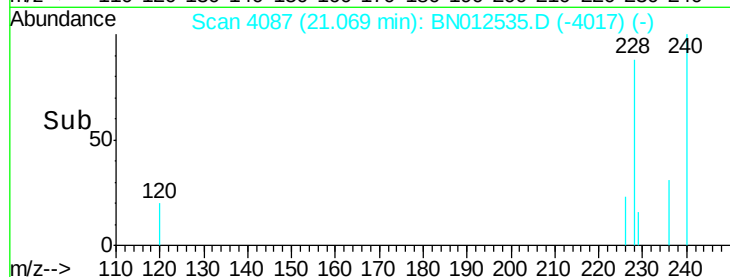
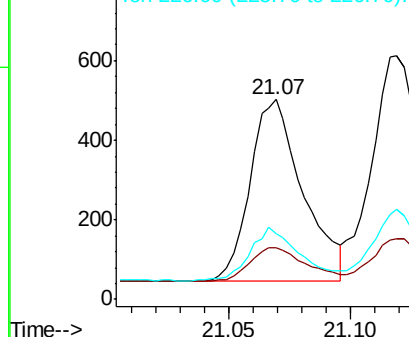
228 100

229 25.9 16.6 25.0#

226 32.9 23.5 35.3



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: 0.075 ng/ul

RT: 21.12 min Scan# 4104

Delta R.T. 0.00 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

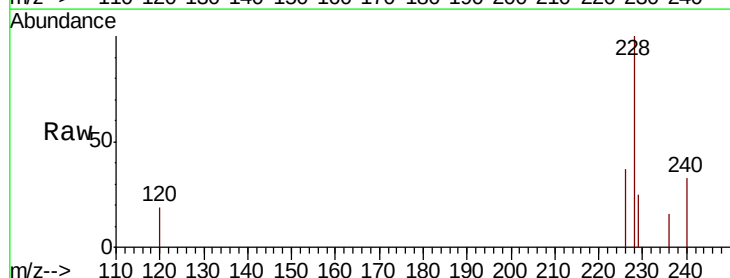
Tgt Ion:228 Resp: 902

Ion Ratio Lower Upper

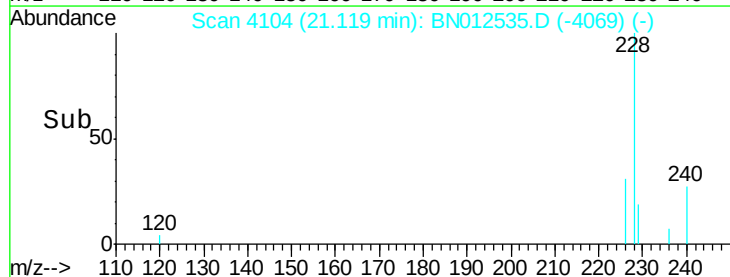
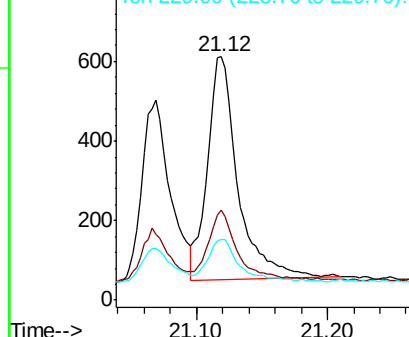
228 100

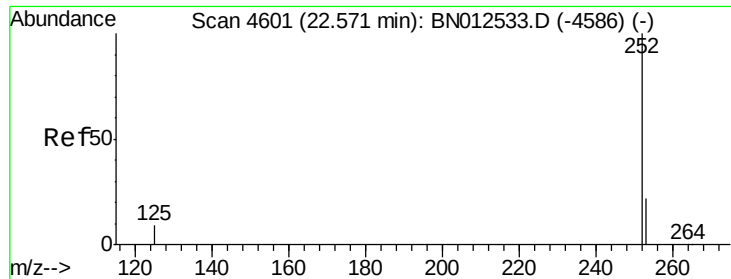
226 36.9 23.9 35.9#

229 25.2 16.6 24.8#



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: 0.068 ng/ul

RT: 22.58 min Scan# 4603

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

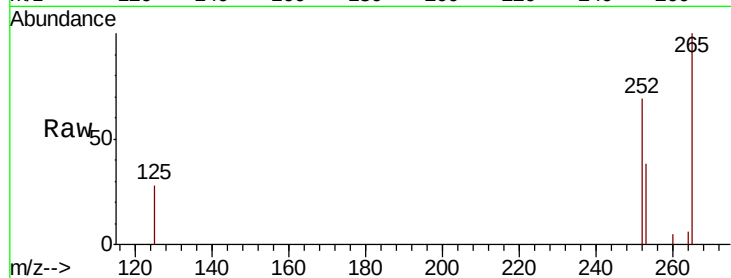
Tot Ion:252 Resp: 845

Ion Ratio Lower Upper

252 100

253 55.4 0.0 59.2

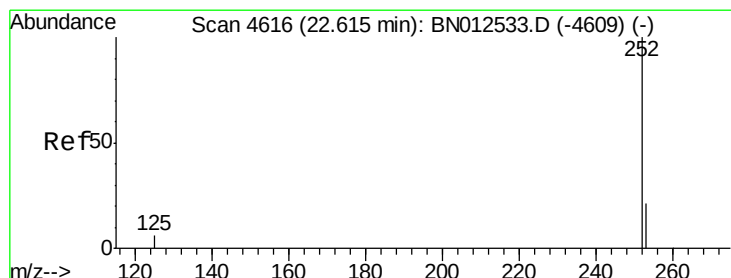
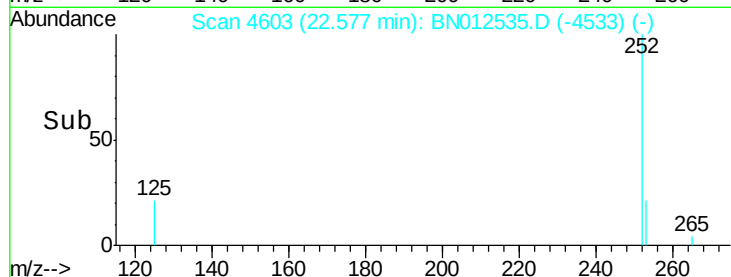
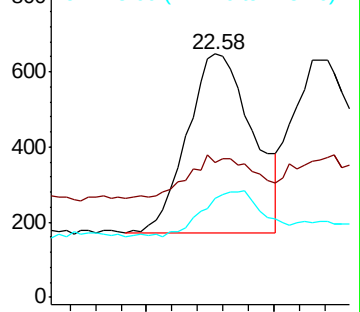
125 40.6 0.0 30.2#



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



#25

Benzo(k)fluoranthene

Concen: 0.070 ng/ul

RT: 22.62 min Scan# 4618

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

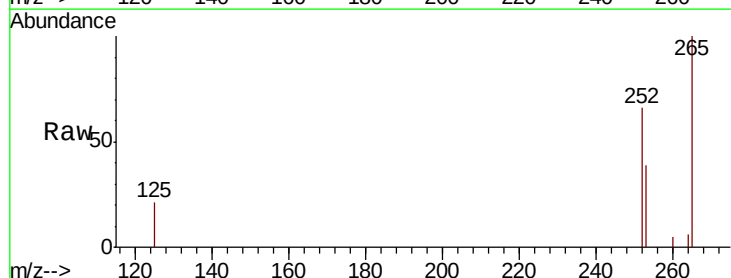
Tgt Ion:252 Resp: 993

Ion Ratio Lower Upper

252 100

253 58.6 23.3 34.9#

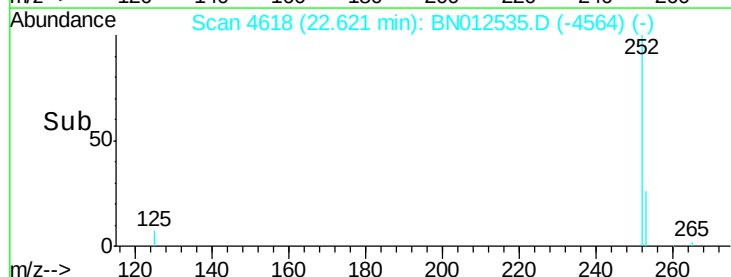
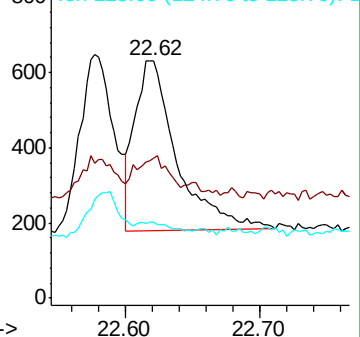
125 32.2 10.6 15.8#

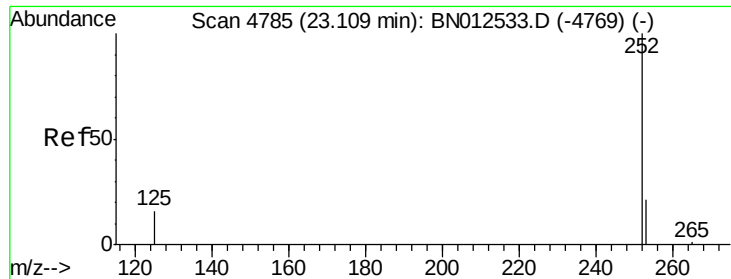


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 0.076 ng/ul

RT: 23.11 min Scan# 4787

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

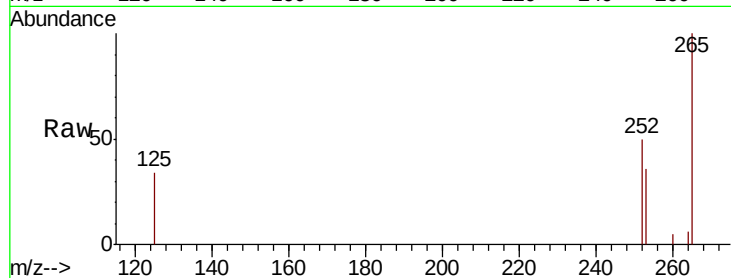
Tot Ion:252 Resp: 883

Ion Ratio Lower Upper

252 100

253 72.4 27.4 41.0#

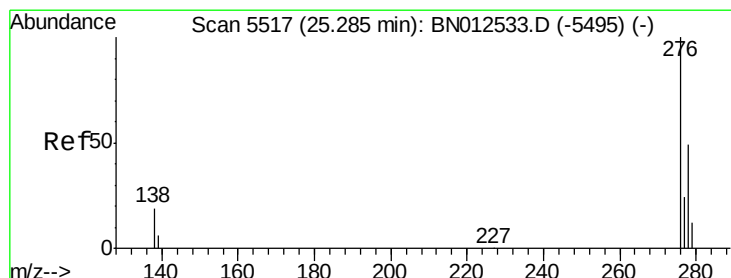
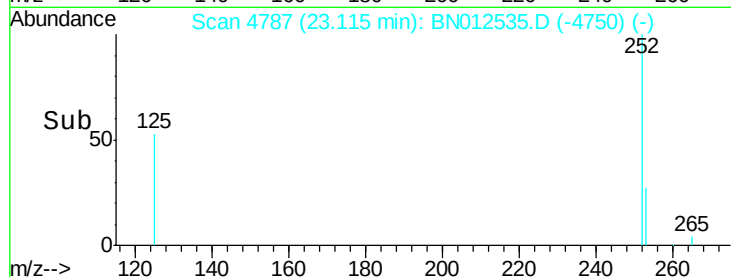
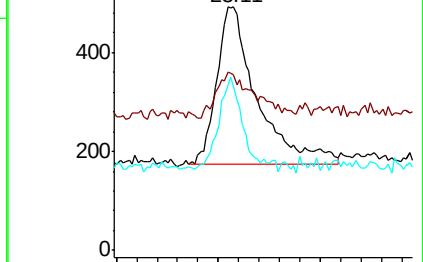
125 67.3 17.7 26.5#



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: 0.067 ng/ul

RT: 25.30 min Scan# 5521

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

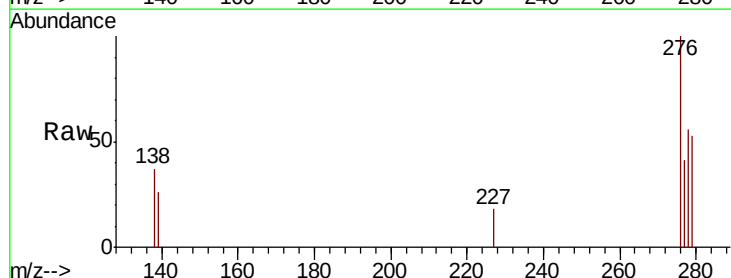
Tgt Ion:276 Resp: 1032

Ion Ratio Lower Upper

276 100

138 17.2 16.3 24.5

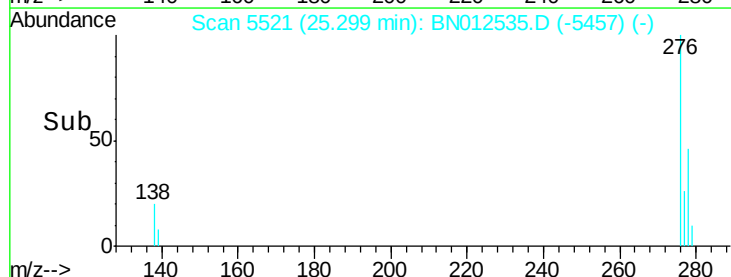
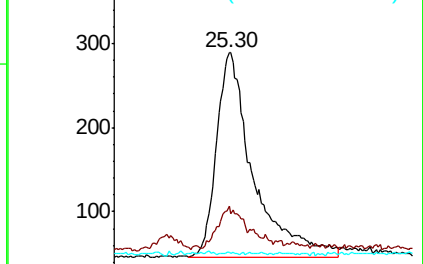
227 0.3 0.1 0.1#

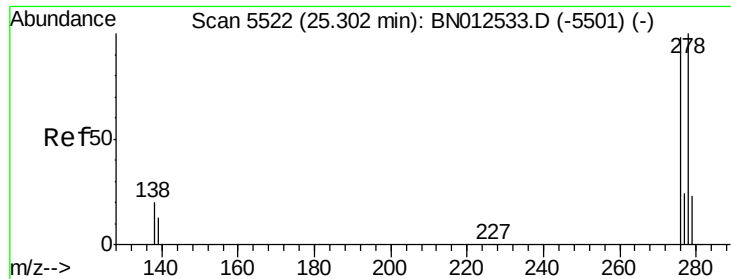


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#28

Dibenzo(a,h)anthracene

Concen: 0.065 ng/ul

RT: 25.32 min Scan# 5526

Delta R.T. 0.02 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-01

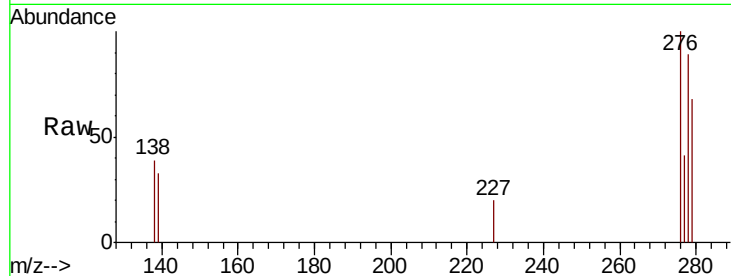
Tot Ion:278 Resp: 803

Ion Ratio Lower Upper

278 100

139 37.0 13.4 20.2#

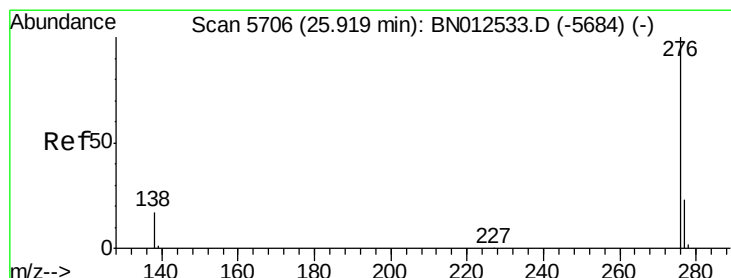
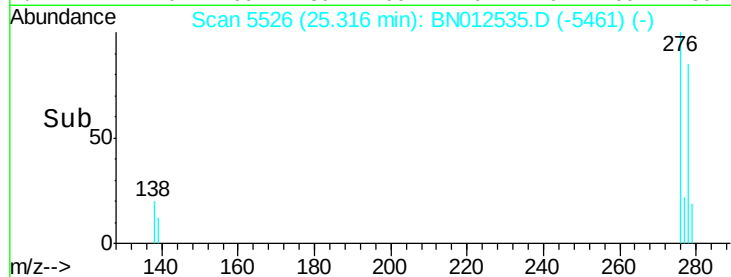
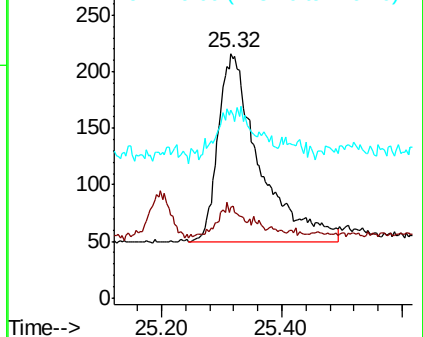
279 76.9 25.8 38.6#



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: 0.066 ng/ul

RT: 25.93 min Scan# 5709

Delta R.T. 0.01 min

Lab File: BN012535.D

Acq: 10 Nov 2020 17:16

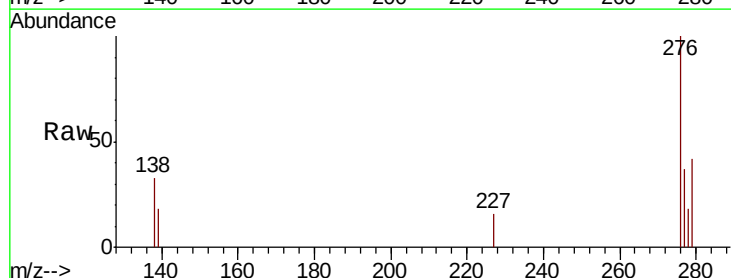
Tgt Ion:276 Resp: 940

Ion Ratio Lower Upper

276 100

138 32.6 17.1 25.7#

277 37.3 21.4 32.0#



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

