

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111020\
 Data File : BN012539.D
 Acq On : 10 Nov 2020 19:40
 Operator : CG/JU
 Sample : L4485-03
 Misc : MDL-S-03
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-03

Quant Time: Nov 11 00:51:58 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

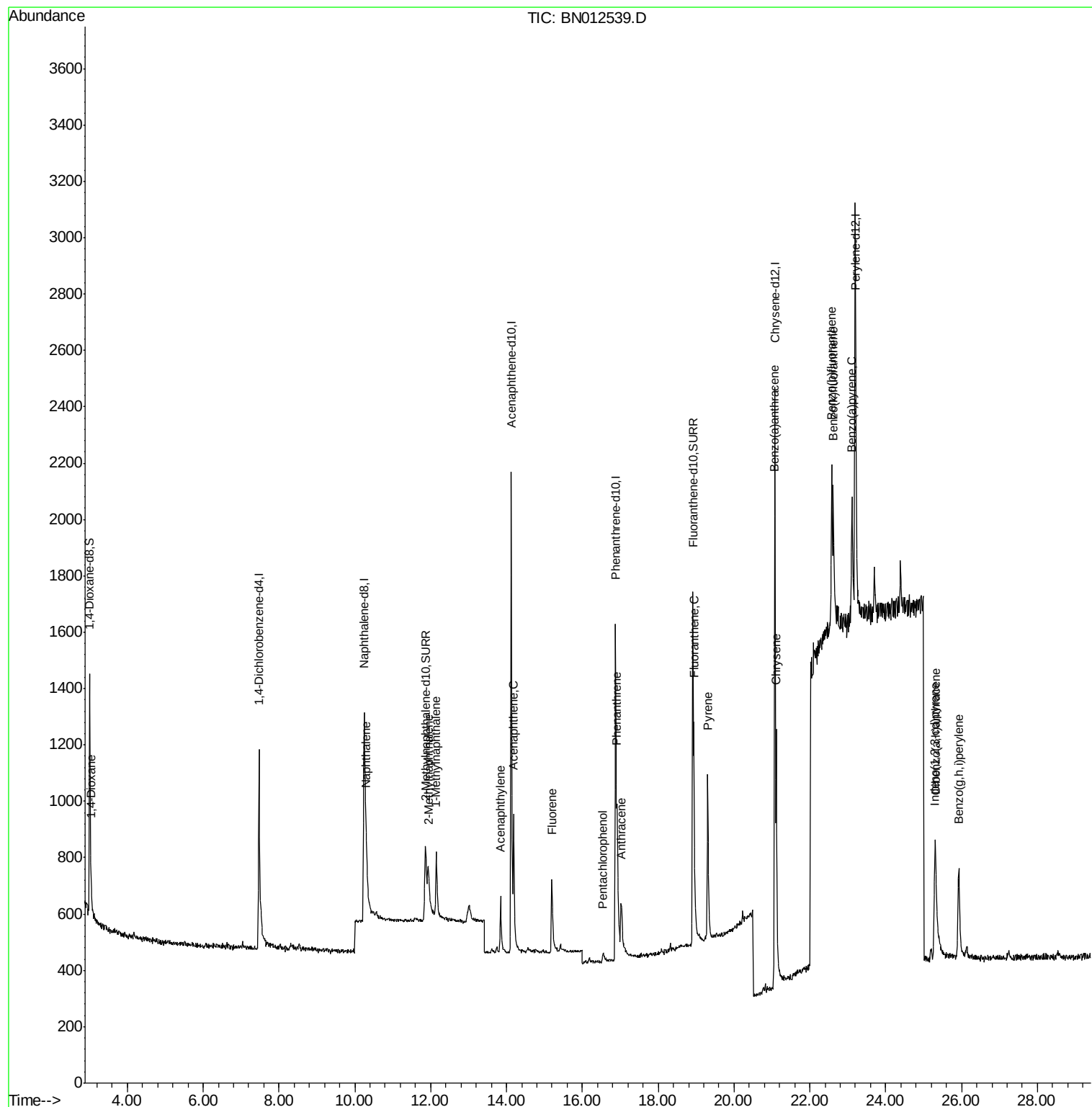
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	552	0.40	ng/ul	0.00
4) Naphthalene-d8	10.25	136	2273	0.40	ng/ul	0.01
9) Acenaphthene-d10	14.13	164	1246	0.40	ng/ul	0.00
13) Phenanthrene-d10	16.88	188	2420	0.40	ng/ul	0.00
19) Chrysene-d12	21.08	240	2181	0.40	ng/ul	0.00
23) Perylene-d12	23.20	264	2296	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.01	96	546	0.73	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.86	152	954	0.30	ng/ul	0.03
17) Fluoranthene-d10	18.91	212	2030	0.34	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.04	88	62	0.082	ng/ul#	83
5) Naphthalene	10.31	128	381	0.060	ng/ul#	44
7) 2-Methylnaphthalene	11.95	142	247	0.060	ng/ul	93
8) 1-Methylnaphthalene	12.15	142	260	0.066	ng/ul	96
10) Acenaphthylene	13.84	152	376	0.068	ng/ul#	59
11) Acenaphthene	14.19	153	315	0.067	ng/ul#	92
12) Fluorene	15.20	166	339	0.064	ng/ul#	89
14) Pentachlorophenol	16.54	266	41	0.062	ng/ul	91
15) Phenanthrene	16.92	178	529	0.066	ng/ul#	66
16) Anthracene	17.03	178	430	0.065	ng/ul#	50
18) Fluoranthene	18.94	202	697	0.078	ng/ul#	76
20) Pyrene	19.31	202	741	0.072	ng/ul#	76
21) Benzo(a)anthracene	21.06	228	571	0.072	ng/ul#	85
22) Chrysene	21.12	228	768	0.080	ng/ul#	88
24) Benzo(b)fluoranthene	22.57	252	727	0.074	ng/ul#	41
25) Benzo(k)fluoranthene	22.62	252	832	0.074	ng/ul#	38
26) Benzo(a)pyrene	23.11	252	708	0.077	ng/ul#	19
27) Indeno(1,2,3-cd)pyrene	25.29	276	862	0.071	ng/ul	94
28) Dibenzo(a,h)anthracene	25.31	278	657	0.067	ng/ul#	17
29) Benzo(a,h,i)perylene	25.93	276	817	0.073	ng/ul#	74

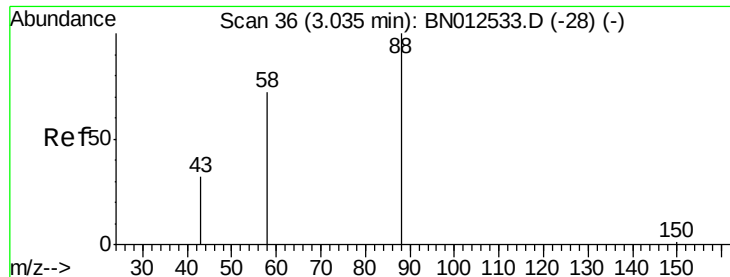
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

1,4-Dioxane

Concen: 0.082 ng/ul

RT: 3.04 min Scan# 38

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

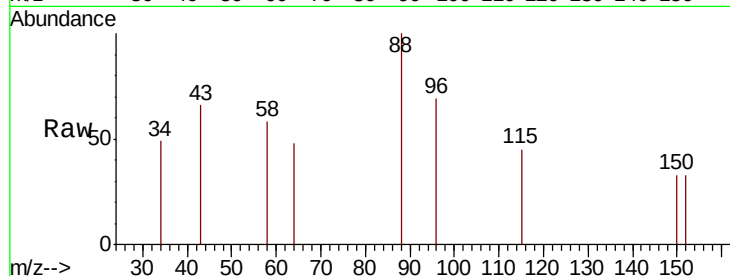
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 66.0 42.7 64.1#

58 57.8 57.3 85.9

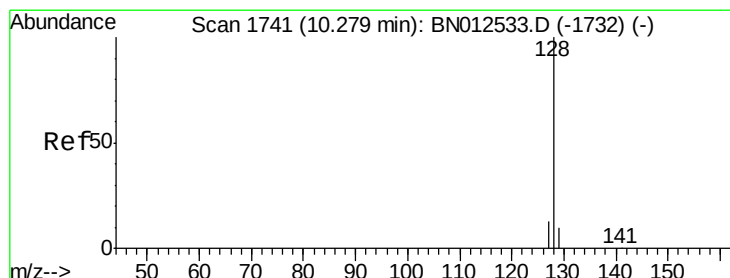
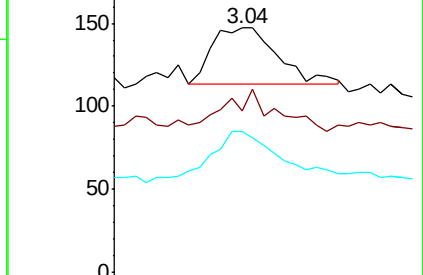
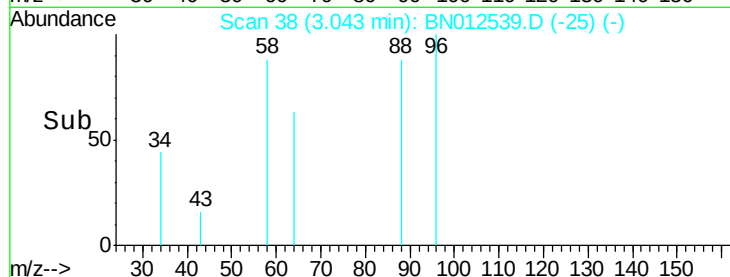


Abundance Ion 88.00 (87.70 to 88.70): BN012533.D (-28) (-)

Ion 43.00 (42.70 to 43.70): BN012533.D (-28) (-)

Ion 58.00 (57.70 to 58.70): BN012533.D (-28) (-)

Time-->



#5

Naphthalene

Concen: 0.060 ng/ul

RT: 10.31 min Scan# 1746

Delta R.T. 0.02 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

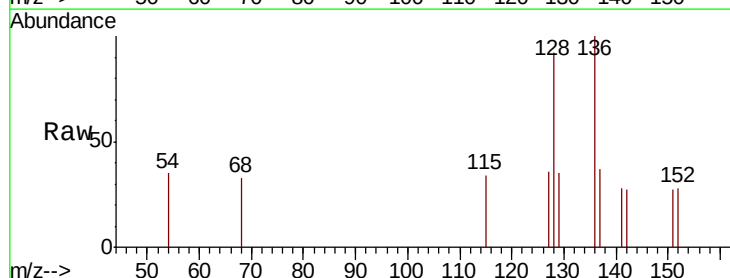
Tgt Ion: 128 Resp: 381

Ion Ratio Lower Upper

128 100

129 37.4 11.1 16.7#

127 38.7 12.6 18.8#

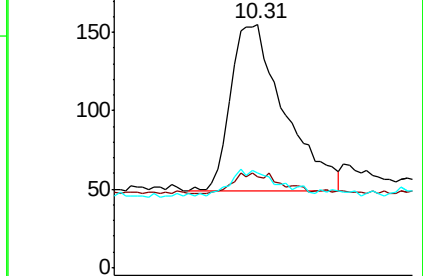
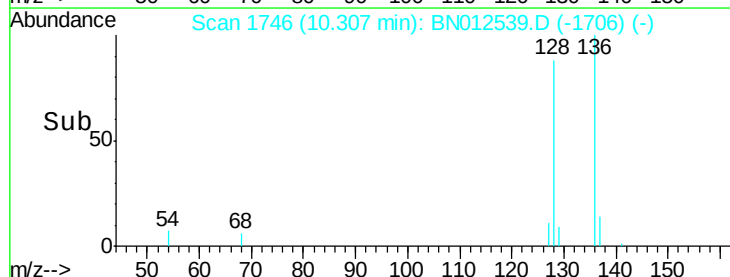


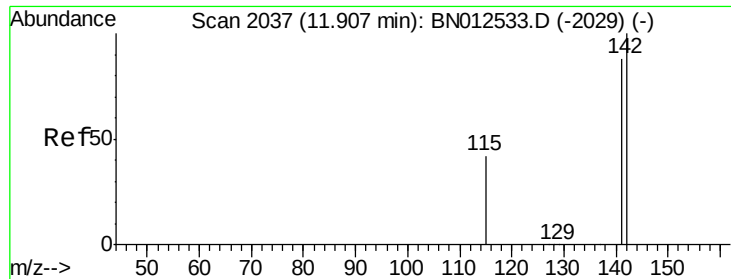
Abundance Ion 128.00 (127.70 to 128.70): BN012533.D (-1732) (-)

Ion 129.00 (128.70 to 129.70): BN012533.D (-1732) (-)

Ion 127.00 (126.70 to 127.70): BN012533.D (-1732) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 0.060 ng/ul

RT: 11.95 min Scan# 2044

Delta R.T. 0.03 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

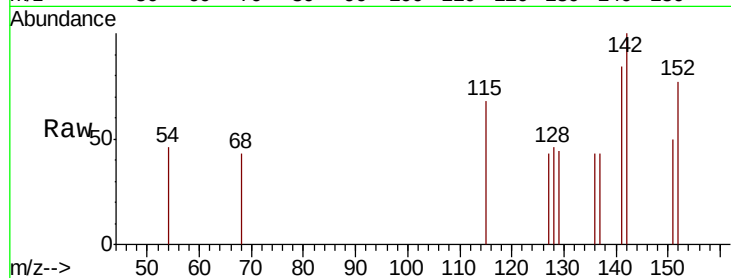
MDL-SOIL-03

Tot Ion:142 Resp: 247

Ion Ratio Lower Upper

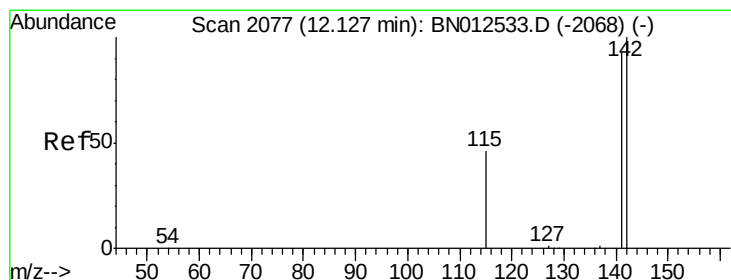
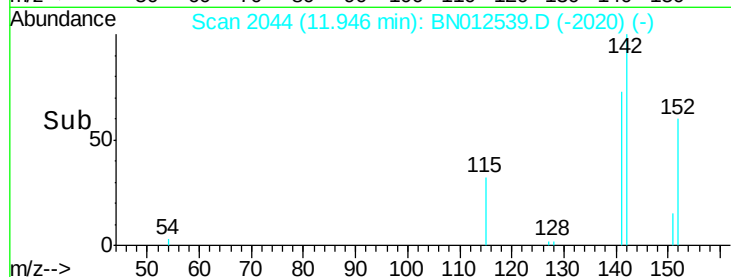
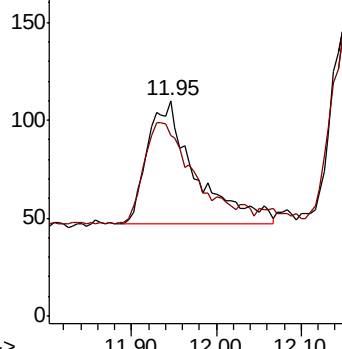
142 100

141 83.8 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: 0.066 ng/ul

RT: 12.15 min Scan# 2081

Delta R.T. 0.02 min

Lab File: BN012539.D

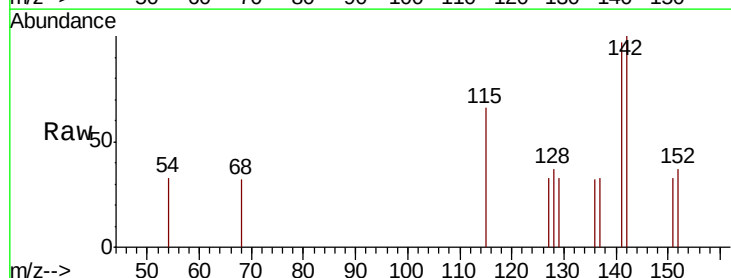
Acq: 10 Nov 2020 19:40

Tgt Ion:142 Resp: 260

Ion Ratio Lower Upper

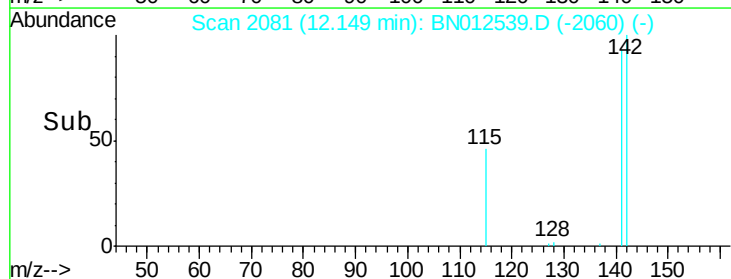
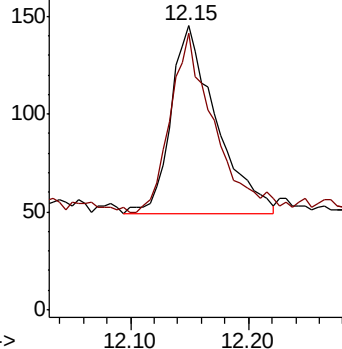
142 100

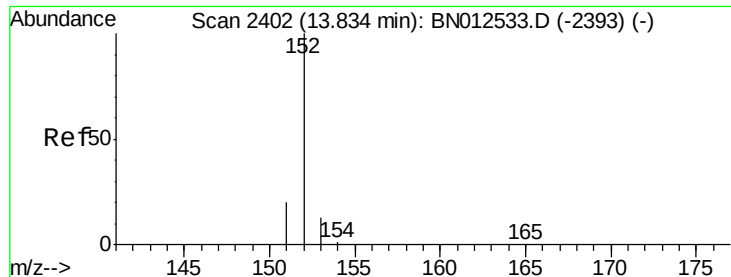
141 90.4 75.3 112.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#10

Acenaphthylene

Concen: 0.068 ng/ul

RT: 13.84 min Scan# 2404

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

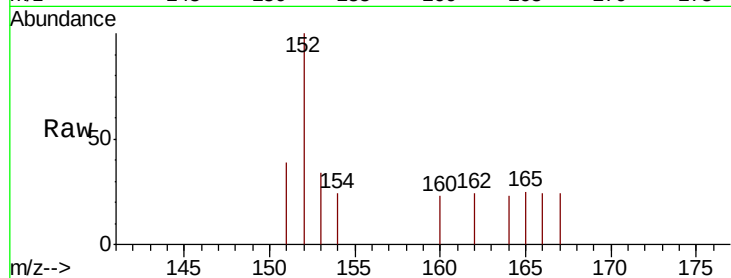
Tot Ion:152 Resp: 376

Ion Ratio Lower Upper

152 100

151 39.0 17.0 25.4#

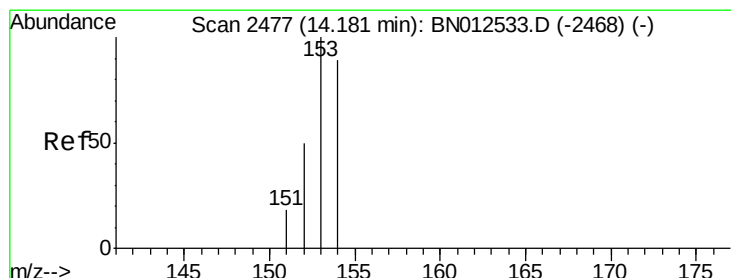
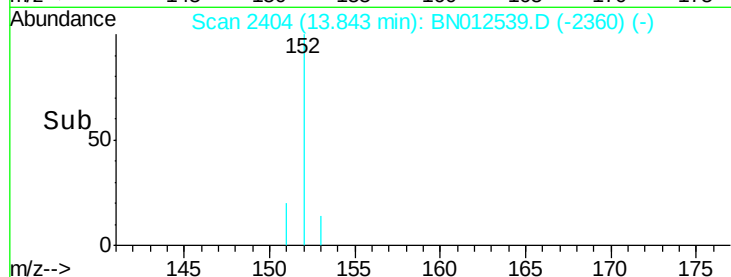
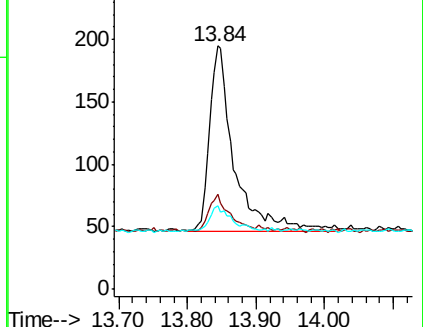
153 34.4 12.5 18.7#



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



#11

Acenaphthene

Concen: 0.067 ng/ul

RT: 14.19 min Scan# 2478

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

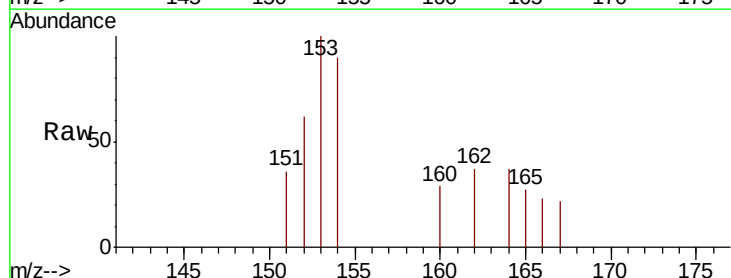
Tgt Ion:153 Resp: 315

Ion Ratio Lower Upper

153 100

152 61.8 39.9 59.9#

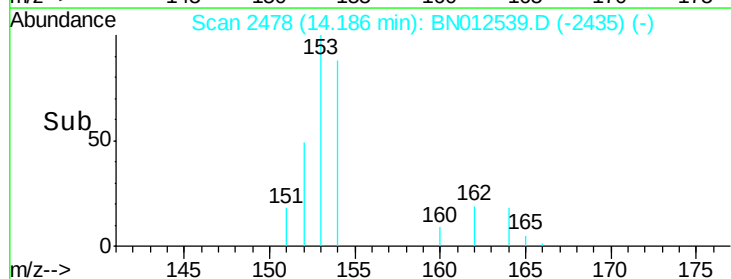
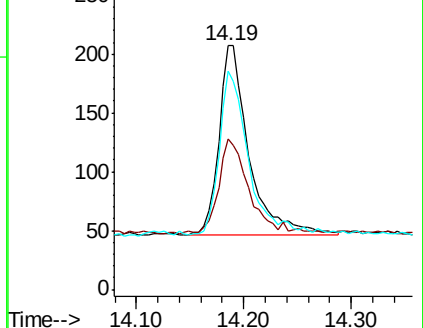
154 89.9 69.9 104.9

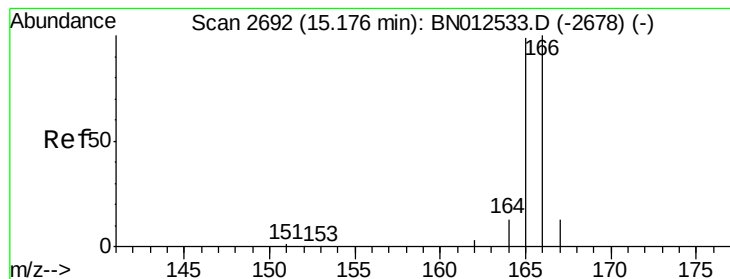


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#12

Fluorene

Concen: 0.064 ng/ul

RT: 15.20 min Scan# 2697

Delta R.T. 0.02 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

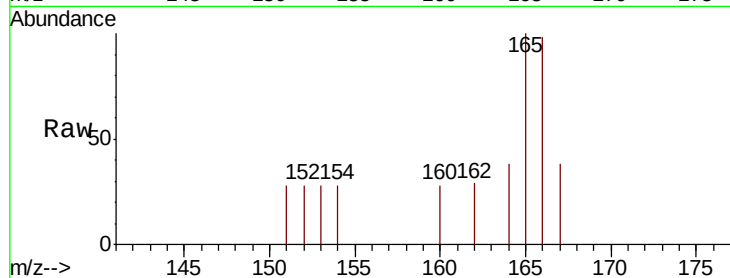
Tot Ion:166 Resp: 339

Ion Ratio Lower Upper

166 100

165 101.9 78.6 117.8

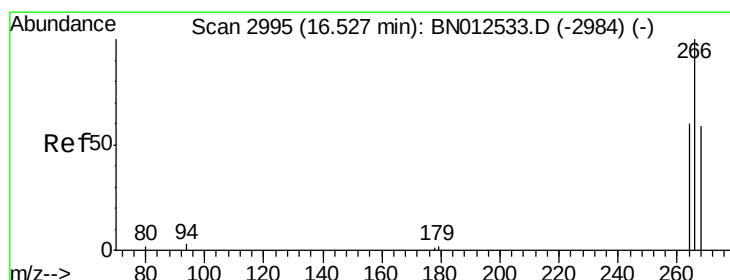
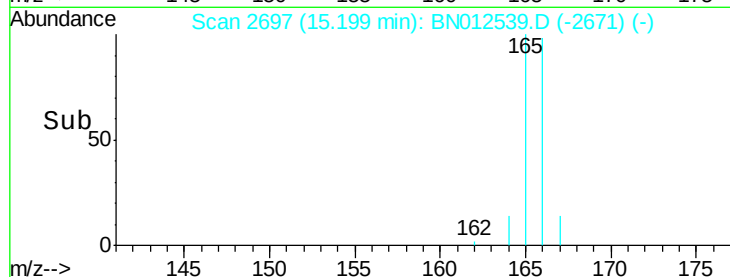
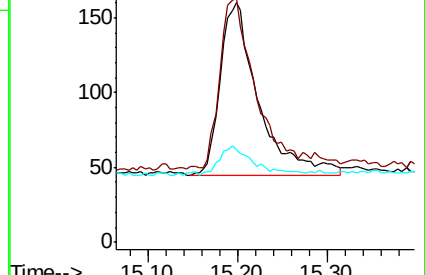
167 38.7 12.6 19.0#



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



#14

Pentachlorophenol

Concen: 0.062 ng/ul

RT: 16.54 min Scan# 2999

Delta R.T. 0.02 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

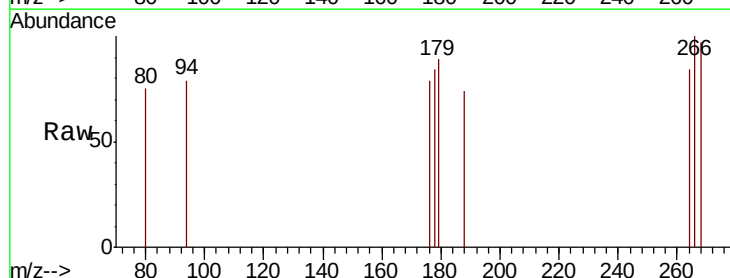
Tgt Ion:266 Resp: 41

Ion Ratio Lower Upper

266 100

264 48.8 48.6 73.0

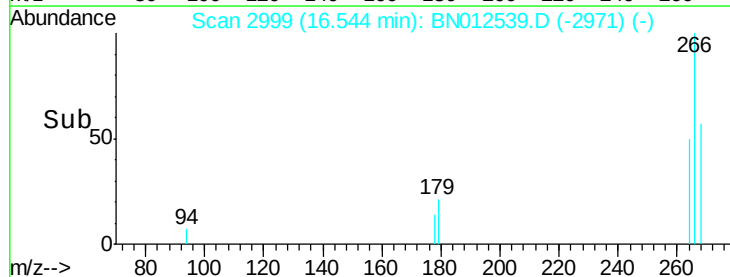
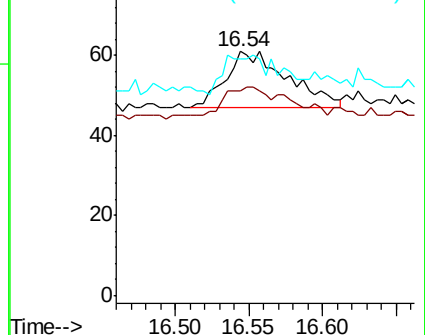
268 65.9 55.2 82.8

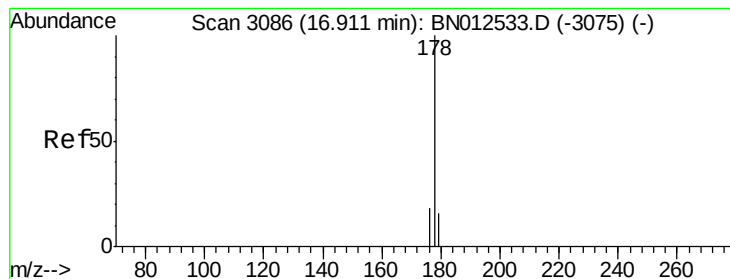


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#15

Phenanthrene

Concen: 0.066 ng/ul

RT: 16.92 min Scan# 3088

Delta R.T. 0.01 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

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MDL-SOIL-03

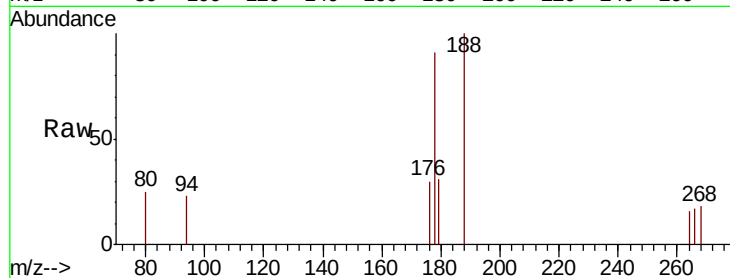
Tot Ion:178 Resp: 529

Ion Ratio Lower Upper

178 100

179 33.7 13.0 19.6#

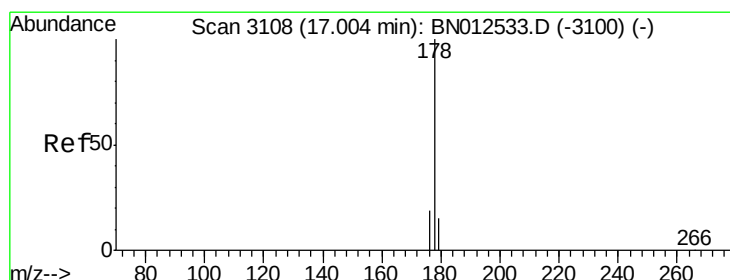
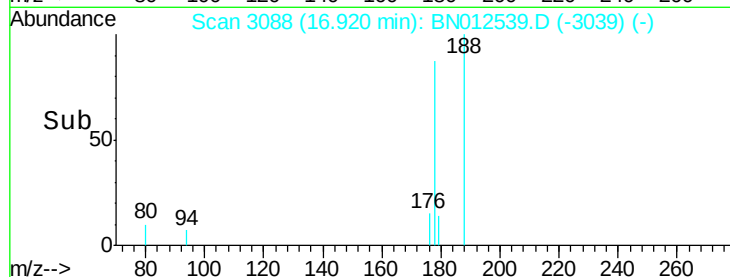
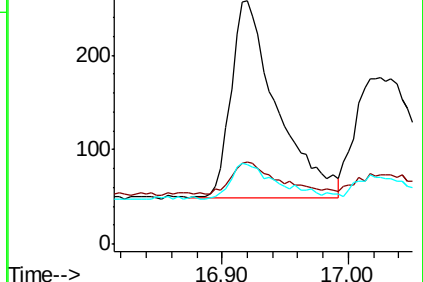
176 32.6 15.8 23.8#



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: 0.065 ng/ul

RT: 17.03 min Scan# 3113

Delta R.T. 0.02 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

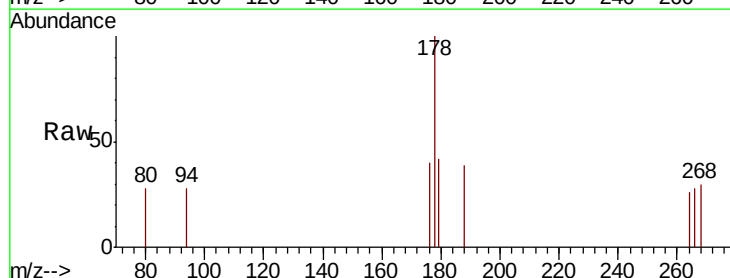
Tgt Ion:178 Resp: 430

Ion Ratio Lower Upper

178 100

179 42.0 14.2 21.4#

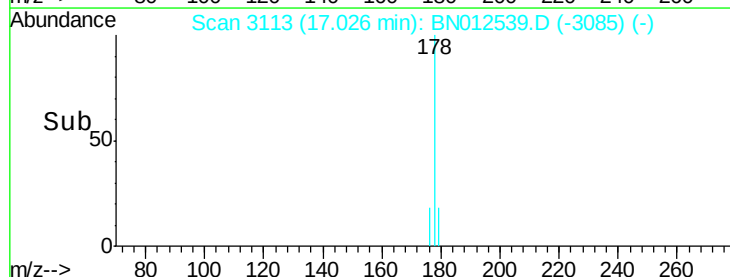
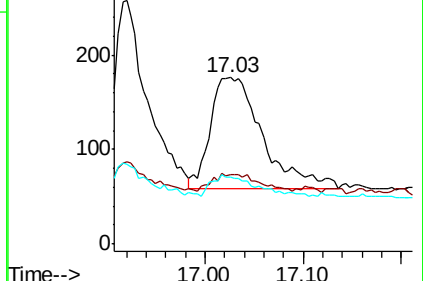
176 40.3 15.9 23.9#

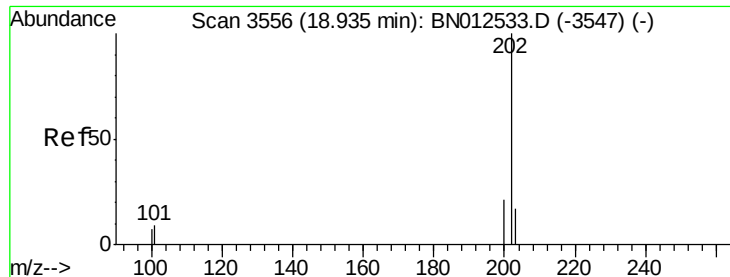


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#18

Fluoranthene

Concen: 0.078 ng/ul

RT: 18.94 min Scan# 3557

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

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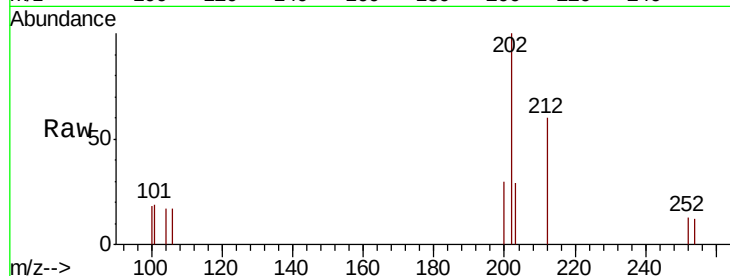
Tot Ion:202 Resp: 697

Ion Ratio Lower Upper

202 100

101 18.6 8.2 12.2#

100 17.9 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

18.94

400

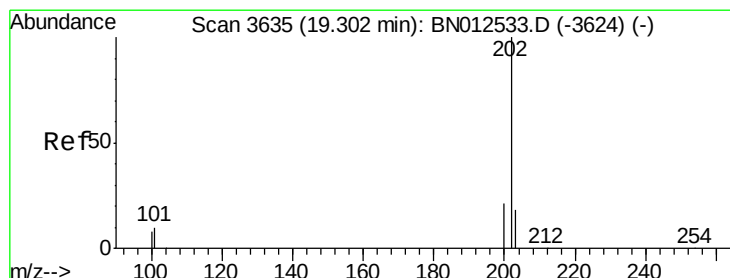
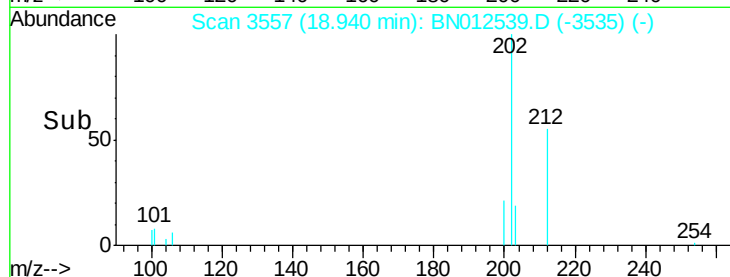
300

200

100

0

Time--> 18.80 18.90 19.00



#20

Pyrene

Concen: 0.072 ng/ul

RT: 19.31 min Scan# 3636

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

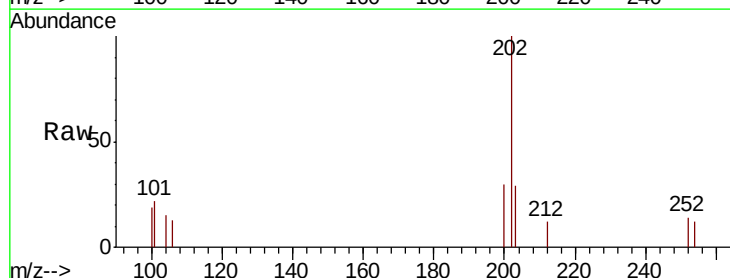
Tgt Ion:202 Resp: 741

Ion Ratio Lower Upper

202 100

101 21.5 9.4 14.2#

100 19.4 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

19.31

400

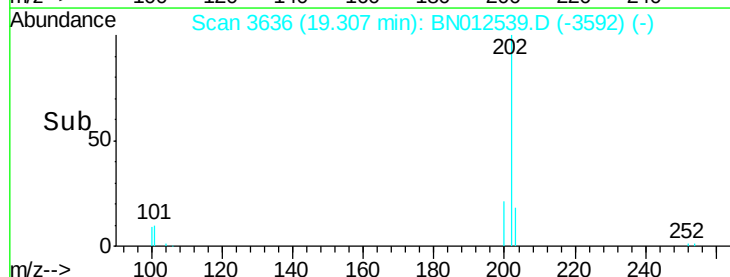
300

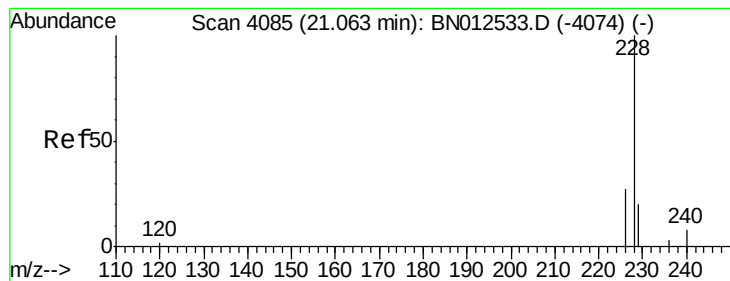
200

100

0

Time--> 19.20 19.30 19.40 19.50





#21

Benzo(a)anthracene

Concen: 0.072 ng/ul

RT: 21.06 min Scan# 4085

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

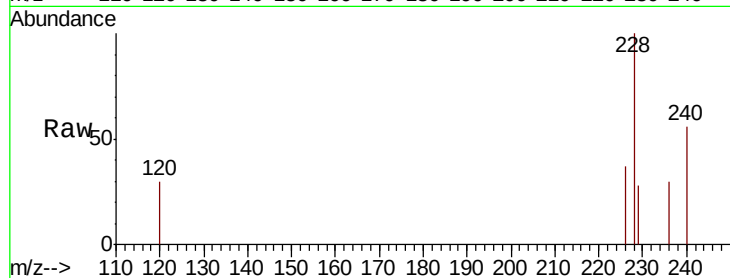
Tot Ion:228 Resp: 571

Ion Ratio Lower Upper

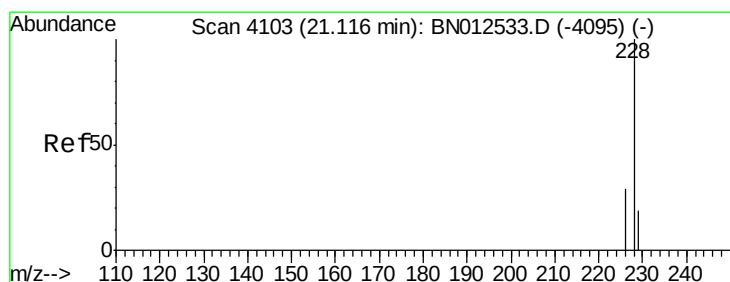
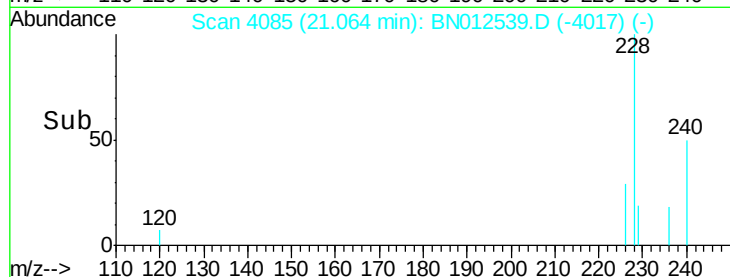
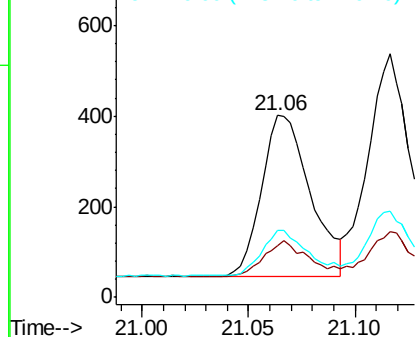
228 100

229 28.2 16.6 25.0#

226 37.2 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: 0.080 ng/ul

RT: 21.12 min Scan# 4103

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

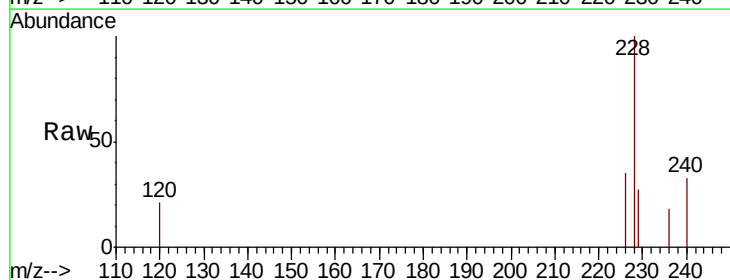
Tgt Ion:228 Resp: 768

Ion Ratio Lower Upper

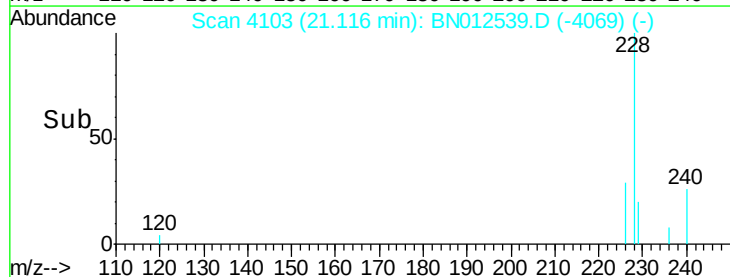
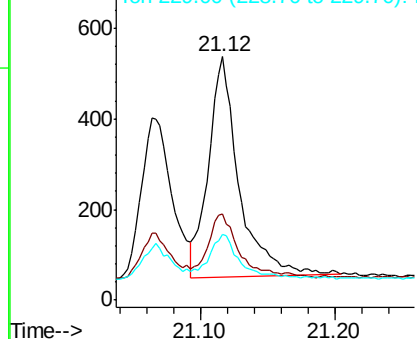
228 100

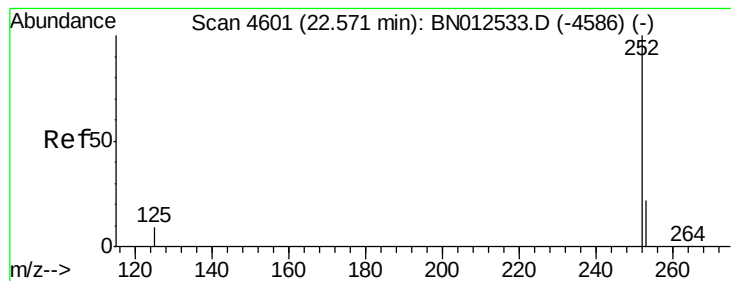
226 35.4 23.9 35.9

229 27.0 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: 0.074 ng/ul

RT: 22.57 min Scan# 4601

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

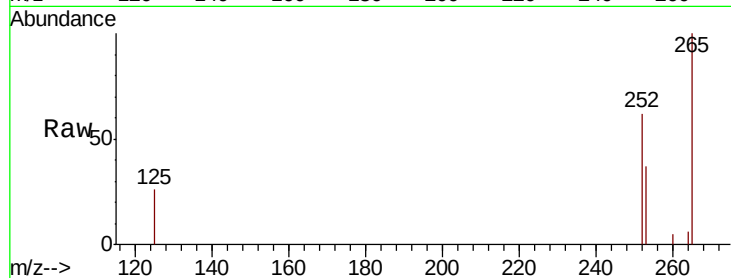
Tot Ion:252 Resp: 727

Ion Ratio Lower Upper

252 100

253 59.6 0.0 59.2#

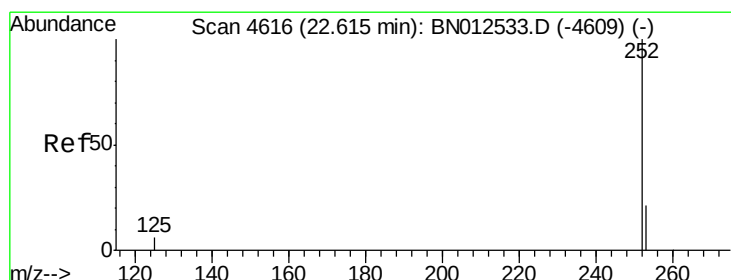
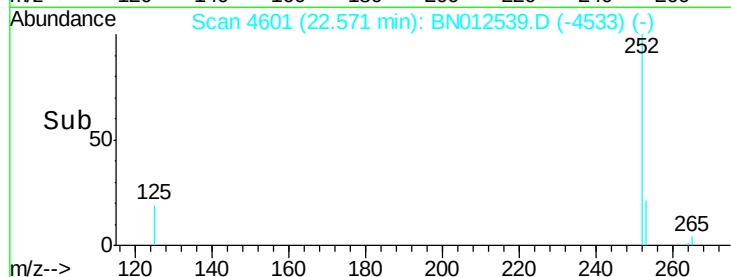
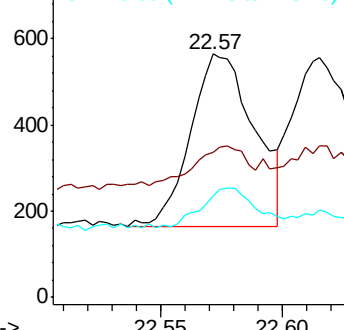
125 41.9 0.0 30.2#



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: 0.074 ng/ul

RT: 22.62 min Scan# 4616

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

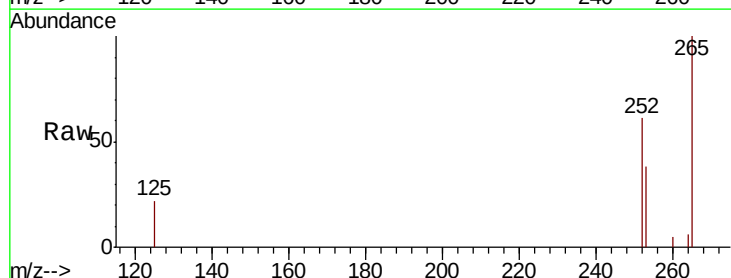
Tgt Ion:252 Resp: 832

Ion Ratio Lower Upper

252 100

253 62.9 23.3 34.9#

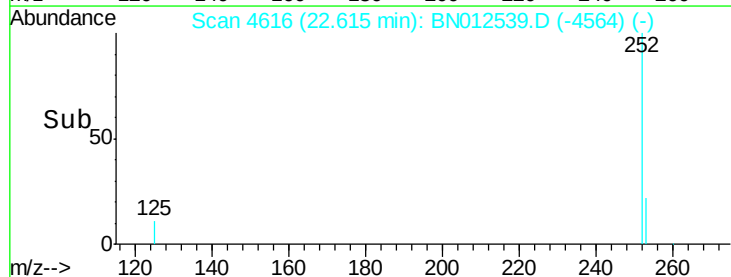
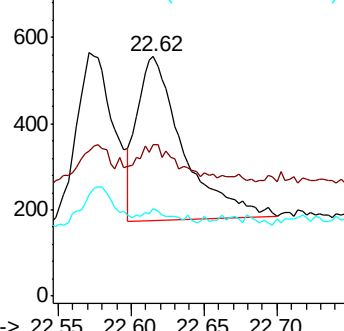
125 36.5 10.6 15.8#

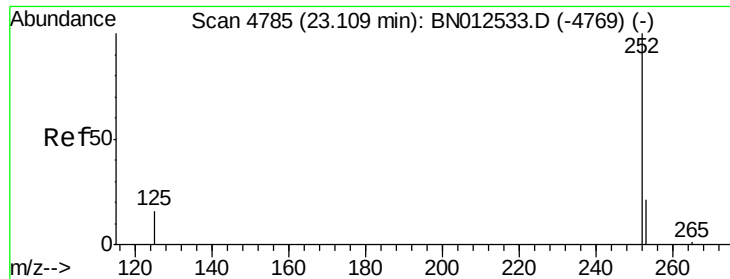


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 0.077 ng/ul

RT: 23.11 min Scan# 4785

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampled :

MDL-SOIL-03

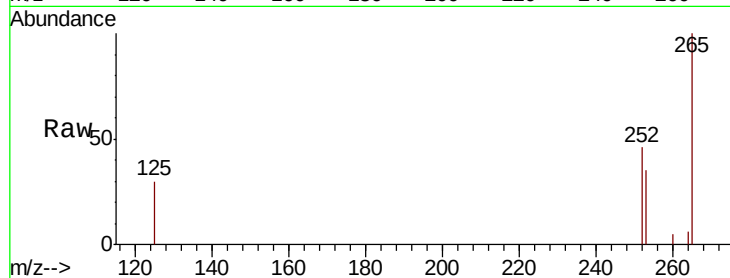
Tot Ion:252 Resp: 708

Ion Ratio Lower Upper

252 100

253 76.5 27.4 41.0#

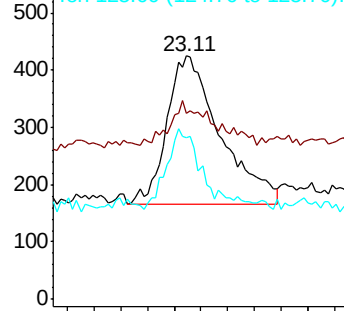
125 66.4 17.7 26.5#



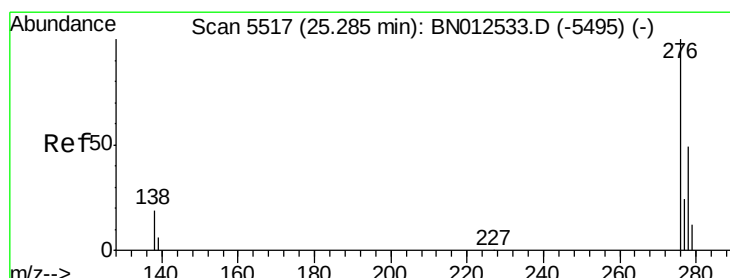
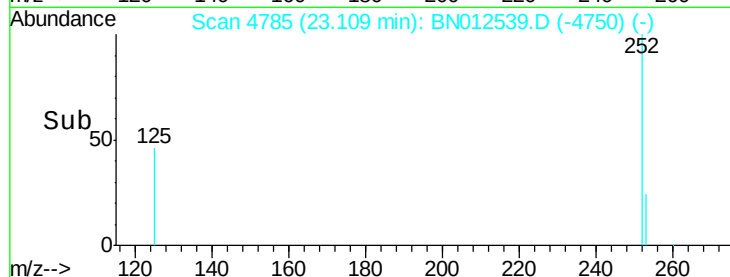
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.071 ng/ul

RT: 25.29 min Scan# 5518

Delta R.T. 0.00 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

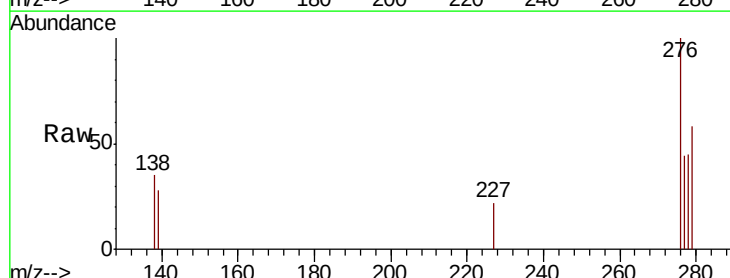
Tgt Ion:276 Resp: 862

Ion Ratio Lower Upper

276 100

138 17.6 16.3 24.5

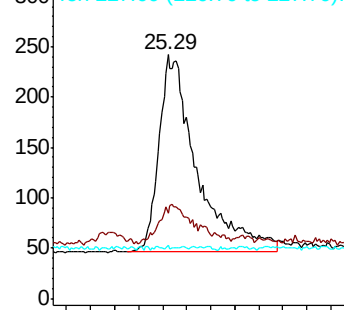
227 0.1 0.1 0.1



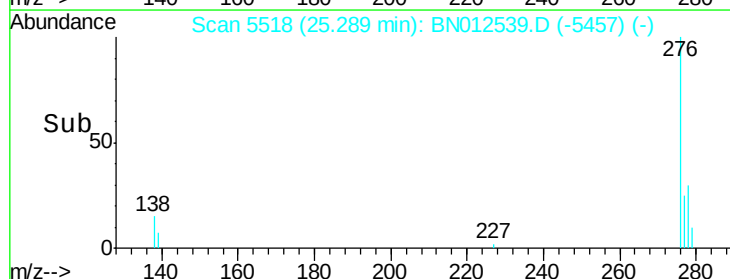
Abundance Ion 276.00 (275.70 to 276.70): E

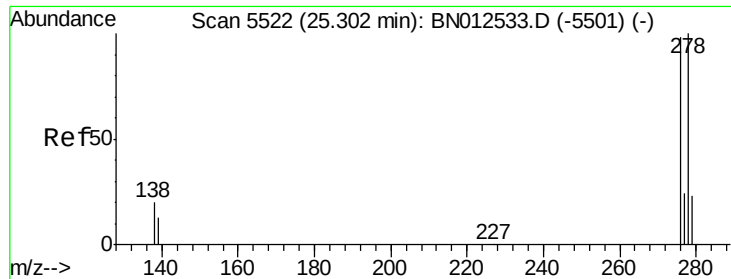
Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



Time-->





#28

Dibenzo(a,h)anthracene

Concen: 0.067 ng/ul

RT: 25.31 min Scan# 5524

Delta R.T. 0.01 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-03

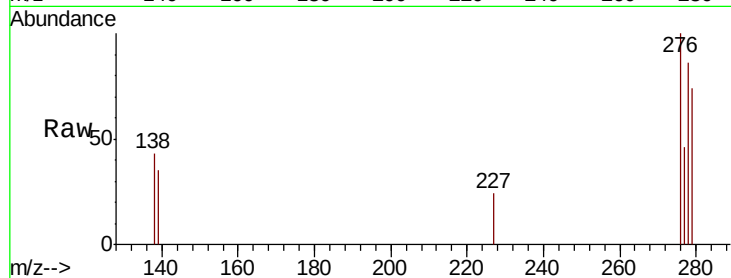
Tot Ion:278 Resp: 657

Ion Ratio Lower Upper

278 100

139 41.2 13.4 20.2#

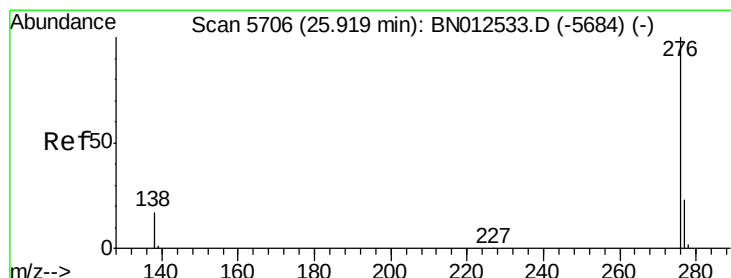
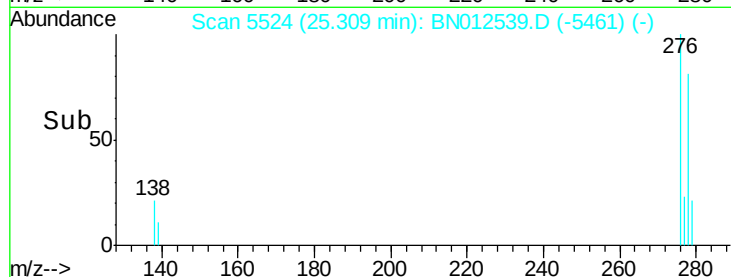
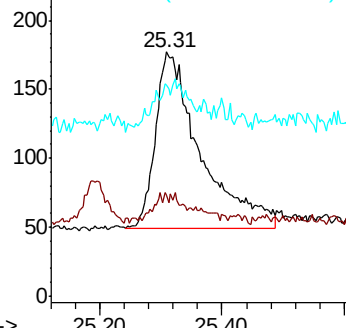
279 86.4 25.8 38.6#



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: 0.073 ng/ul

RT: 25.93 min Scan# 5709

Delta R.T. 0.01 min

Lab File: BN012539.D

Acq: 10 Nov 2020 19:40

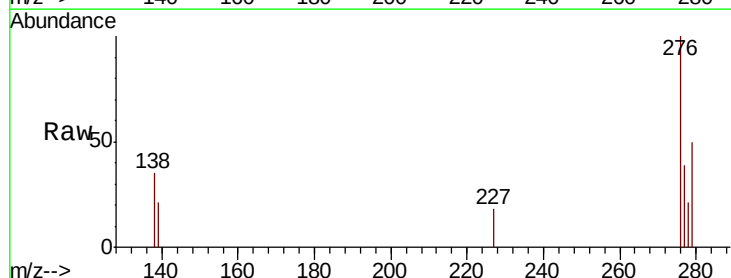
Tgt Ion:276 Resp: 817

Ion Ratio Lower Upper

276 100

138 35.3 17.1 25.7#

277 38.7 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

