

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111020\
 Data File : BN012537.D
 Acq On : 10 Nov 2020 18:28
 Operator : CG/JU
 Sample : L4485-02
 Misc : MDL-S-02
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-02

Quant Time: Nov 11 00:51:46 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

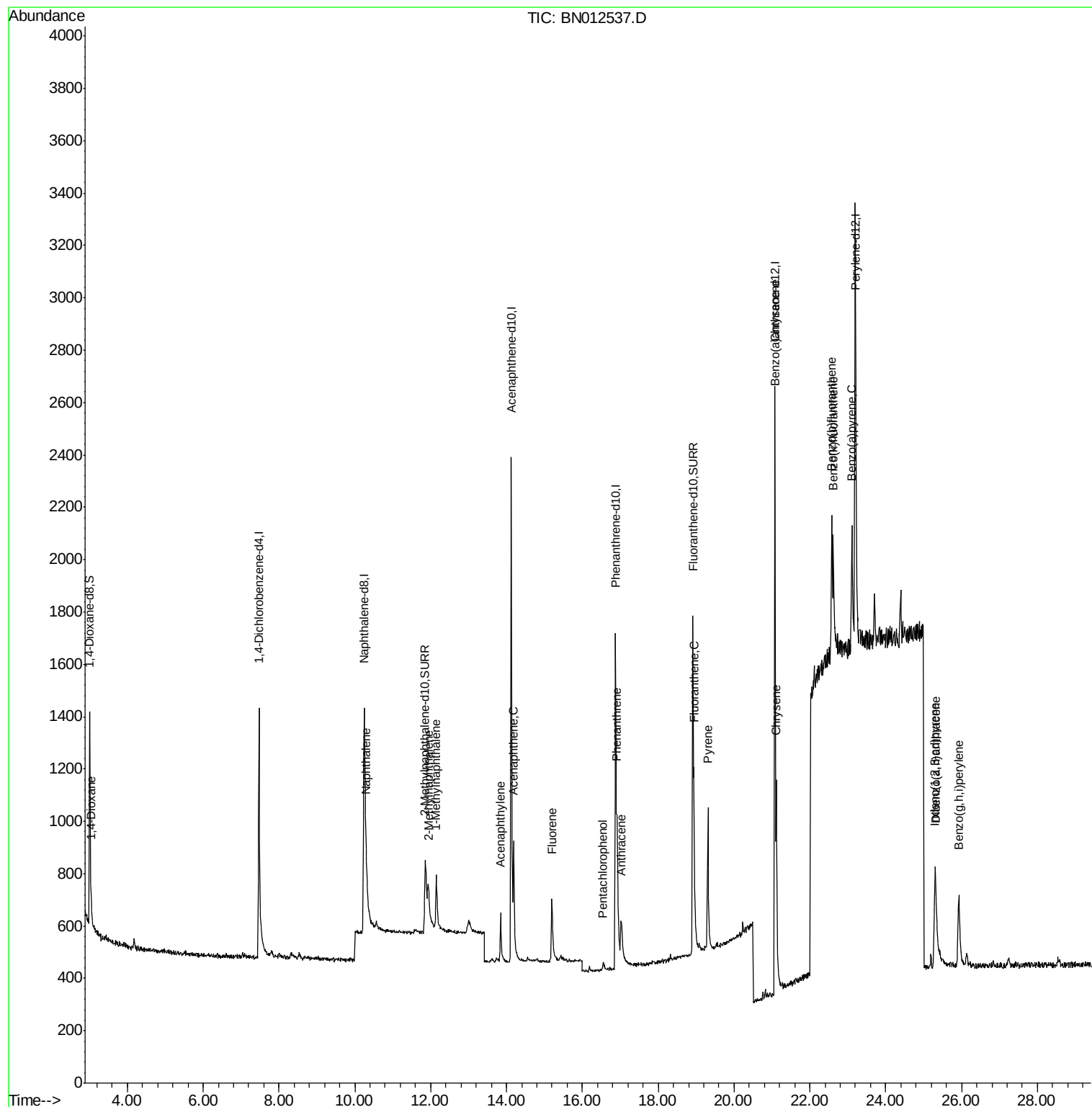
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	667	0.40	ng/ul	0.00
4) Naphthalene-d8	10.25	136	2613	0.40	ng/ul	0.01
9) Acenaphthene-d10	14.13	164	1420	0.40	ng/ul	0.00
13) Phenanthrene-d10	16.88	188	2696	0.40	ng/ul	0.00
19) Chrysene-d12	21.08	240	2405	0.40	ng/ul	0.00
23) Perylene-d12	23.20	264	2515	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.01	96	519	0.57	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.86	152	984	0.27	ng/ul	0.02
17) Fluoranthene-d10	18.91	212	2036	0.30	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.04	88	58	0.064	ng/ul#	82
5) Naphthalene	10.30	128	360	0.049	ng/ul#	43
7) 2-Methylnaphthalene	11.95	142	237	0.050	ng/ul	98
8) 1-Methylnaphthalene	12.14	142	229	0.050	ng/ul	97
10) Acenaphthylene	13.84	152	333	0.053	ng/ul#	61
11) Acenaphthene	14.19	153	299	0.056	ng/ul#	90
12) Fluorene	15.19	166	309	0.051	ng/ul#	88
14) Pentachlorophenol	16.55	266	24	0.033	ng/ul#	39
15) Phenanthrene	16.92	178	488	0.055	ng/ul#	64
16) Anthracene	17.02	178	373	0.051	ng/ul#	48
18) Fluoranthene	18.94	202	618	0.062	ng/ul#	71
20) Pyrene	19.31	202	680	0.060	ng/ul#	81
21) Benzo(a)anthracene	21.07	228	529	0.060	ng/ul#	86
22) Chrysene	21.12	228	681	0.065	ng/ul#	87
24) Benzo(b)fluoranthene	22.58	252	649	0.060	ng/ul#	33
25) Benzo(k)fluoranthene	22.61	252	780	0.063	ng/ul#	36
26) Benzo(a)pyrene	23.11	252	634	0.063	ng/ul#	1
27) Indeno(1,2,3-cd)pyrene	25.30	276	789	0.059	ng/ul#	56
28) Dibenzo(a,h)anthracene	25.32	278	616	0.058	ng/ul#	20
29) Benzo(a,h,i)perylene	25.92	276	725	0.059	ng/ul#	70

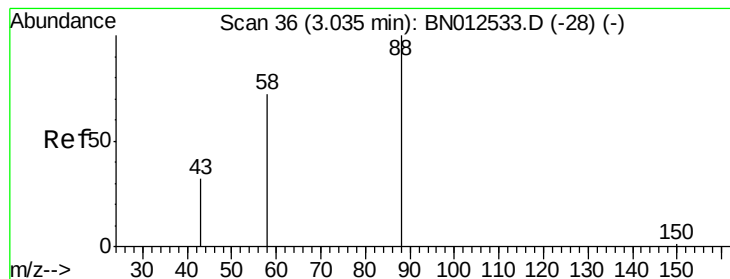
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

1,4-Dioxane

Concen: 0.064 ng/ul

RT: 3.04 min Scan# 38

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

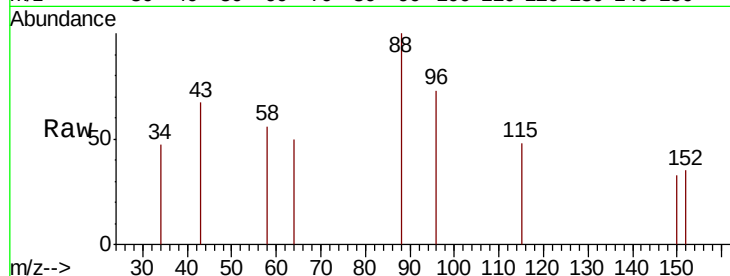
Tot Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 66.7 42.7 64.1#

58 56.5 57.3 85.9#

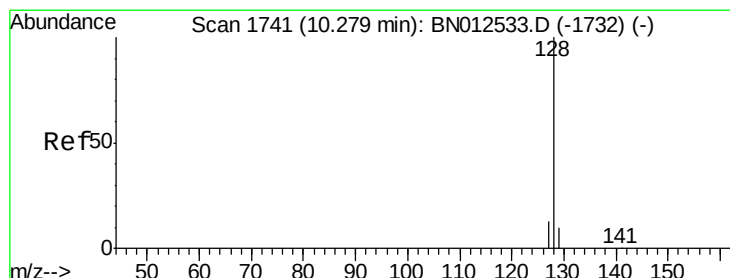
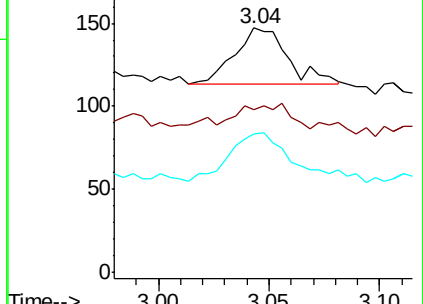
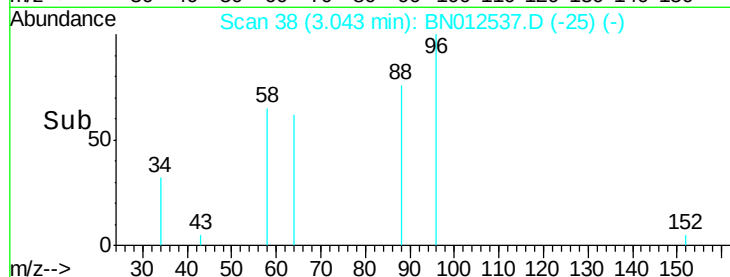


Abundance Ion 88.00 (87.70 to 88.70): BN012537.D (-25) (-)

Ion 43.00 (42.70 to 43.70): BN012537.D (-25) (-)

Ion 58.00 (57.70 to 58.70): BN012537.D (-25) (-)

Time-->



#5

Naphthalene

Concen: 0.049 ng/ul

RT: 10.30 min Scan# 1745

Delta R.T. 0.02 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

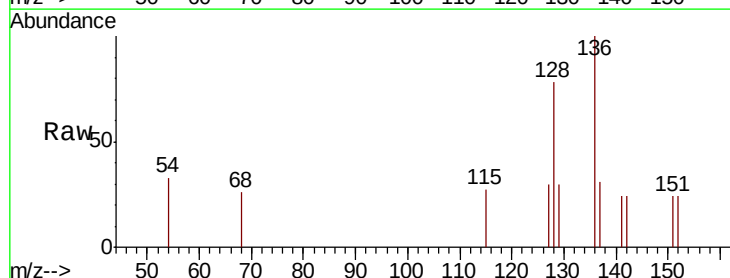
Tgt Ion: 128 Resp: 360

Ion Ratio Lower Upper

128 100

129 38.5 11.1 16.7#

127 38.5 12.6 18.8#

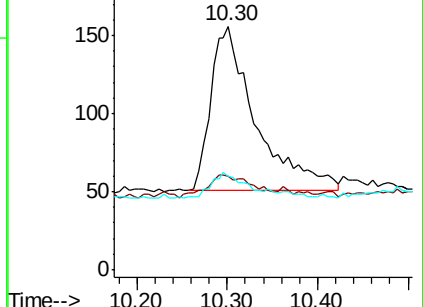
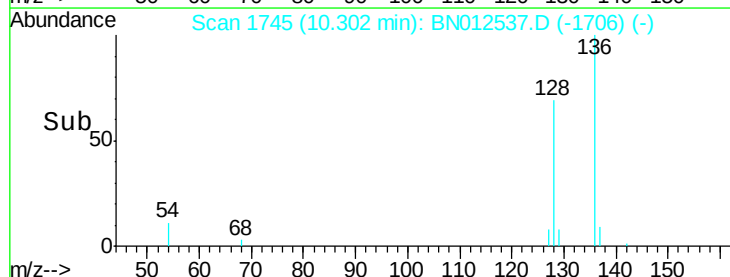


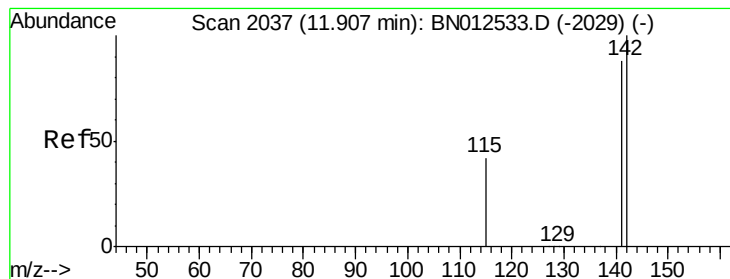
Abundance Ion 128.00 (127.70 to 128.70): BN012537.D (-1706) (-)

Ion 129.00 (128.70 to 129.70): BN012537.D (-1706) (-)

Ion 127.00 (126.70 to 127.70): BN012537.D (-1706) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 0.050 ng/ul

RT: 11.95 min Scan# 2044

Delta R.T. 0.03 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampled :

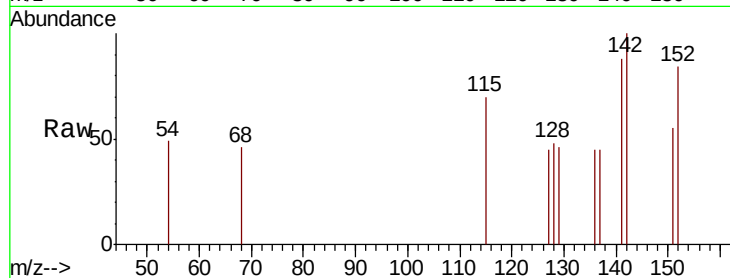
MDL-SOIL-02

Tot Ion:142 Resp: 237

Ion Ratio Lower Upper

142 100

141 92.0 72.1 108.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

150

100

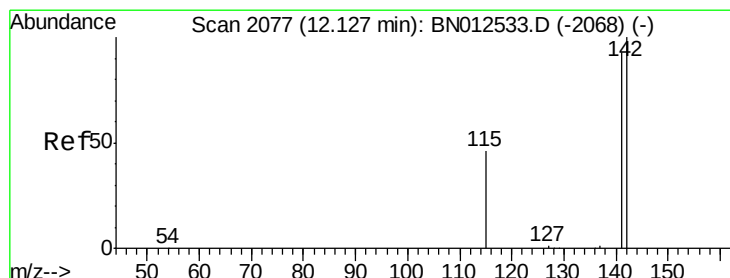
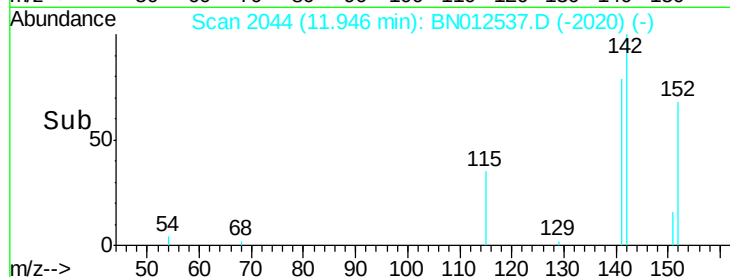
50

0

11.80

12.00

Time-->



#8

1-Methylnaphthalene

Concen: 0.050 ng/ul

RT: 12.14 min Scan# 2080

Delta R.T. 0.01 min

Lab File: BN012537.D

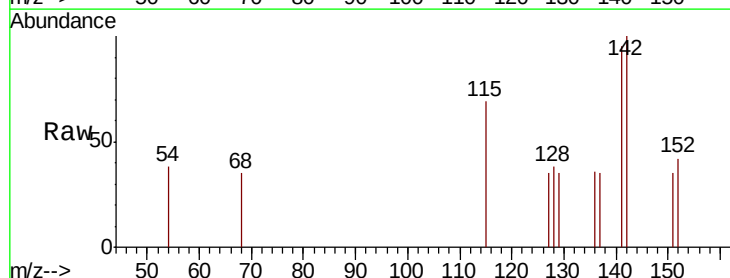
Acq: 10 Nov 2020 18:28

Tgt Ion:142 Resp: 229

Ion Ratio Lower Upper

142 100

141 96.9 75.3 112.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

150

100

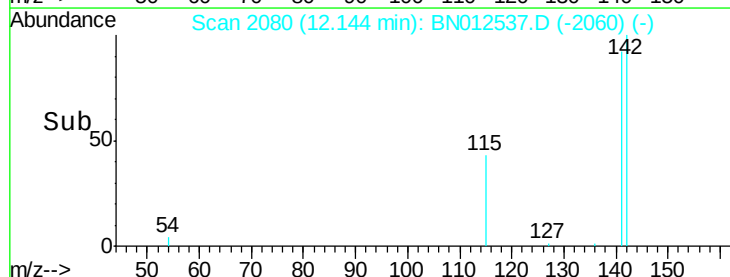
50

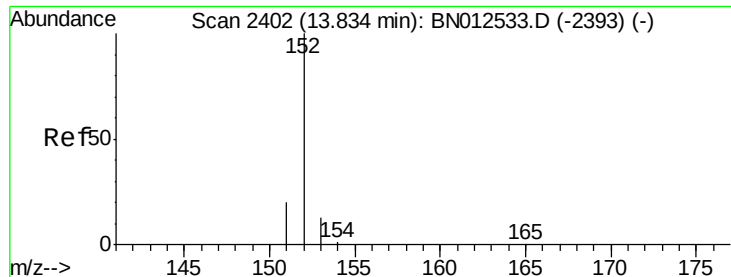
0

12.10

12.20

Time-->





#10

Acenaphthylene

Concen: 0.053 ng/ul

RT: 13.84 min Scan# 2404

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

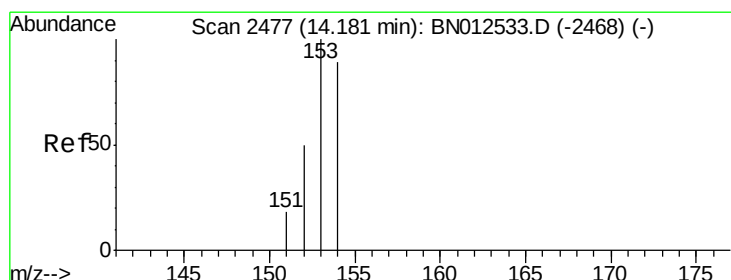
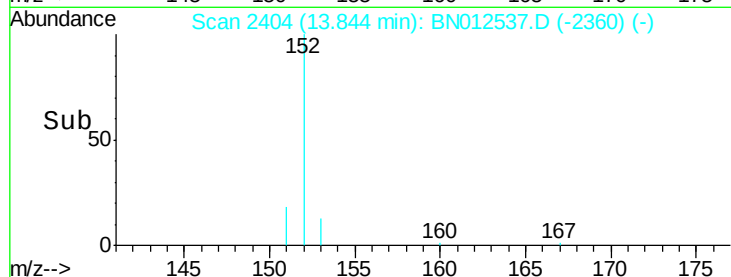
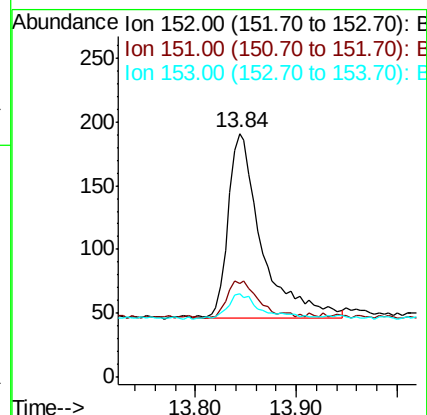
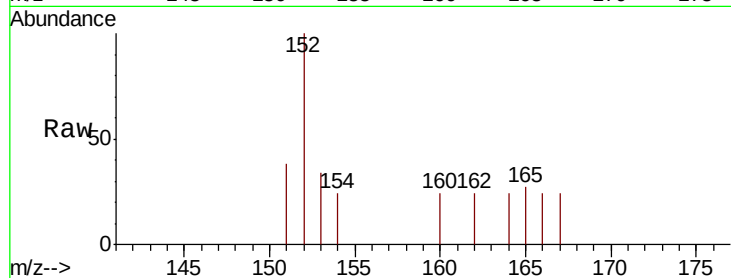
Tot Ion:152 Resp: 333

Ion Ratio Lower Upper

152 100

151 38.2 17.0 25.4#

153 34.0 12.5 18.7#



#11

Acenaphthene

Concen: 0.056 ng/ul

RT: 14.19 min Scan# 2478

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

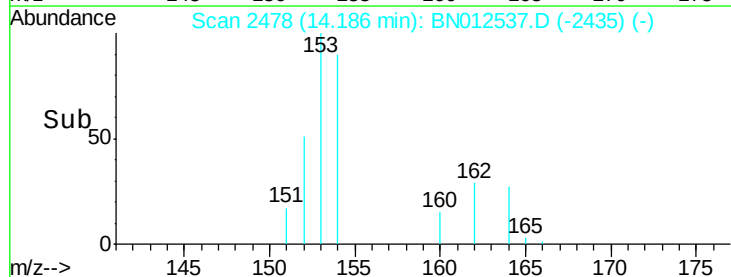
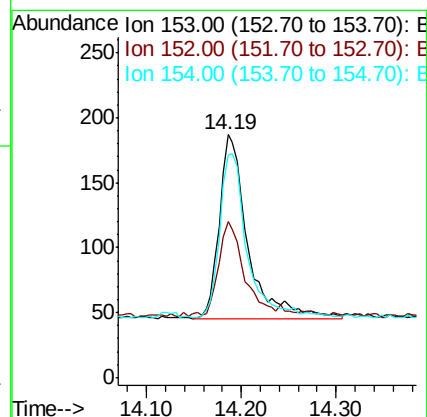
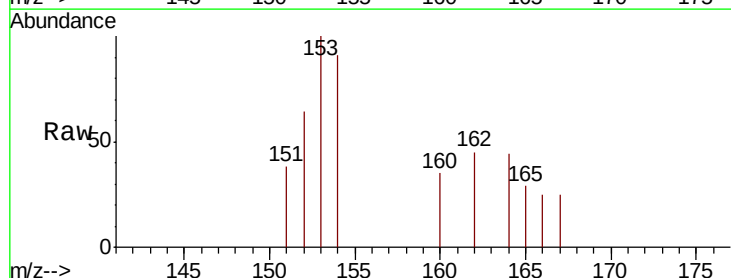
Tgt Ion:153 Resp: 299

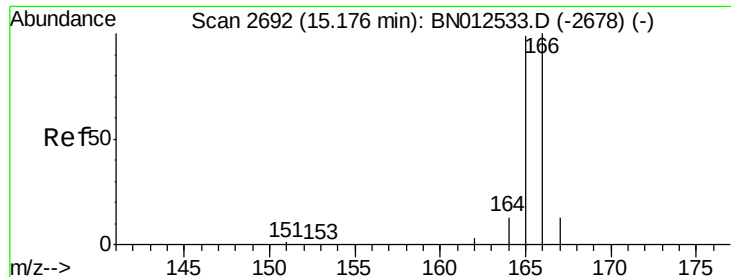
Ion Ratio Lower Upper

153 100

152 64.2 39.9 59.9#

154 91.4 69.9 104.9





#12

Fluorene

Concen: 0.051 ng/ul

RT: 15.19 min Scan# 2696

Delta R.T. 0.01 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

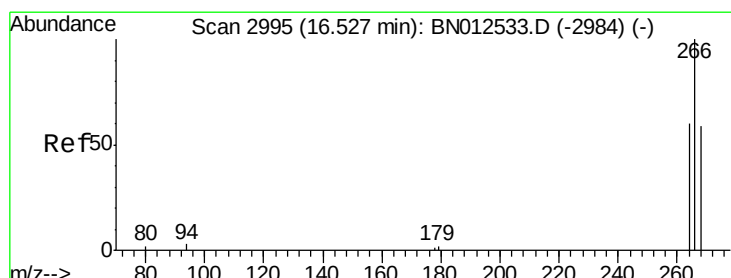
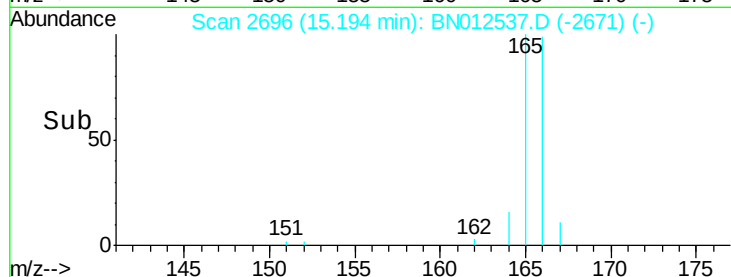
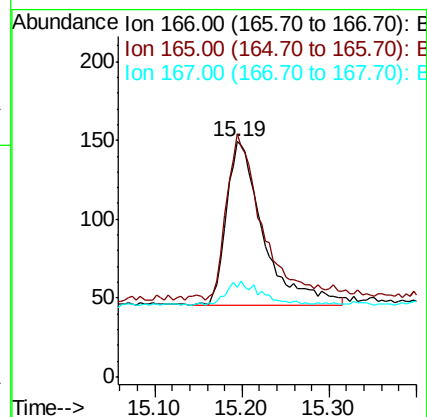
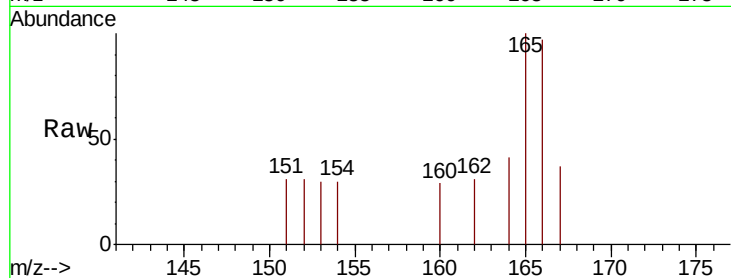
Tot Ion:166 Resp: 309

Ion Ratio Lower Upper

166 100

165 103.4 78.6 117.8

167 38.3 12.6 19.0#



#14

Pentachlorophenol

Concen: 0.033 ng/ul

RT: 16.55 min Scan# 3001

Delta R.T. 0.03 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

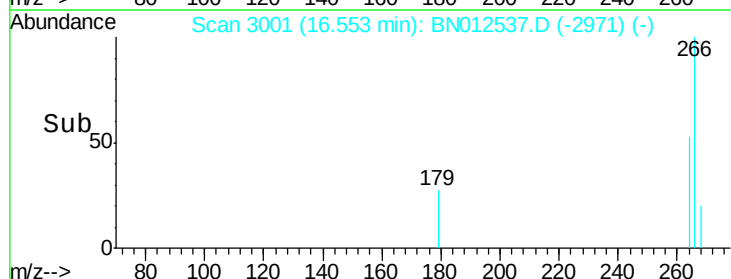
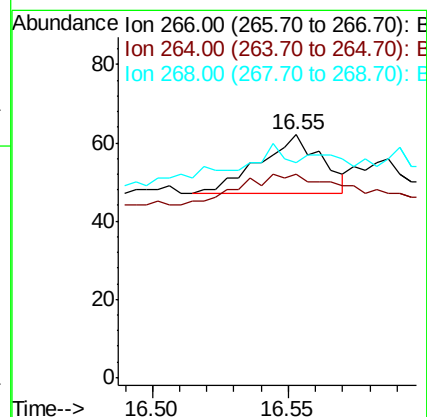
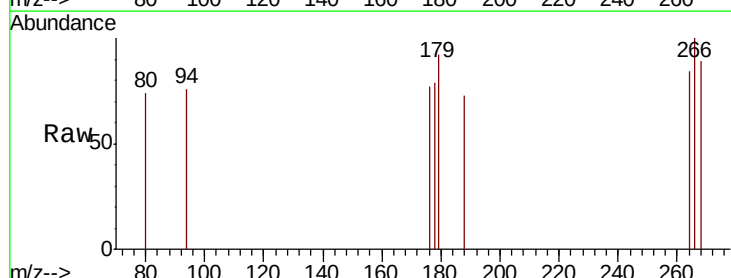
Tgt Ion:266 Resp: 24

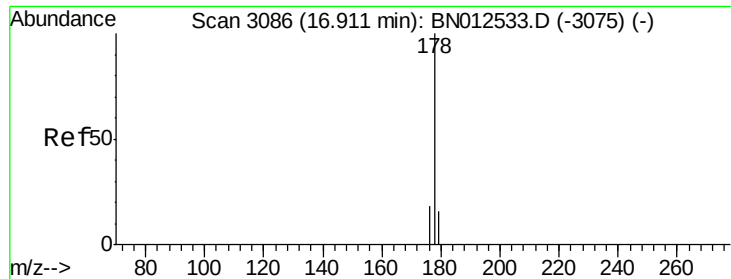
Ion Ratio Lower Upper

266 100

264 0.0 48.6 73.0#

268 33.3 55.2 82.8#





#15

Phenanthrene

Concen: 0.055 ng/ul

RT: 16.92 min Scan# 3088

Delta R.T. 0.01 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

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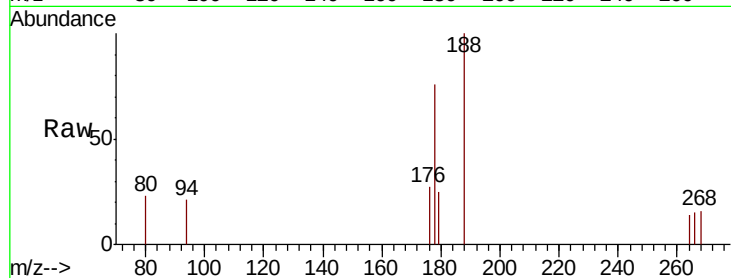
Tot Ion:178 Resp: 488

Ion Ratio Lower Upper

178 100

179 33.3 13.0 19.6#

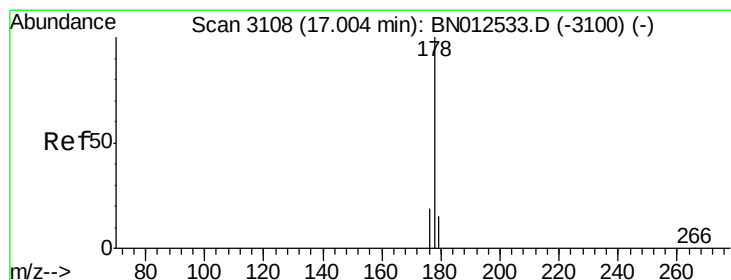
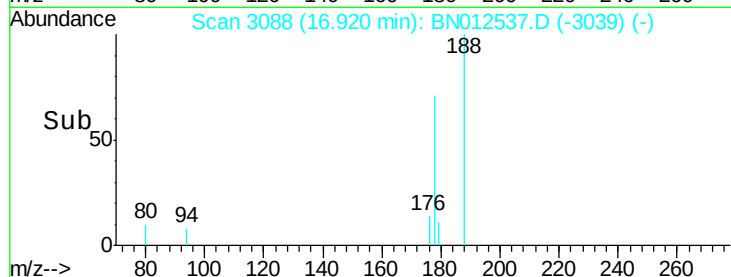
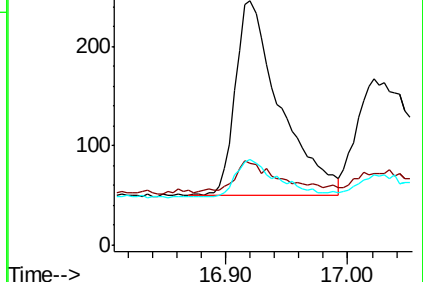
176 35.0 15.8 23.8#



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: 0.051 ng/ul

RT: 17.02 min Scan# 3112

Delta R.T. 0.01 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

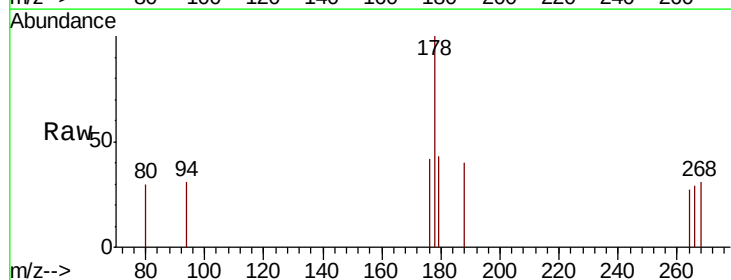
Tgt Ion:178 Resp: 373

Ion Ratio Lower Upper

178 100

179 43.1 14.2 21.4#

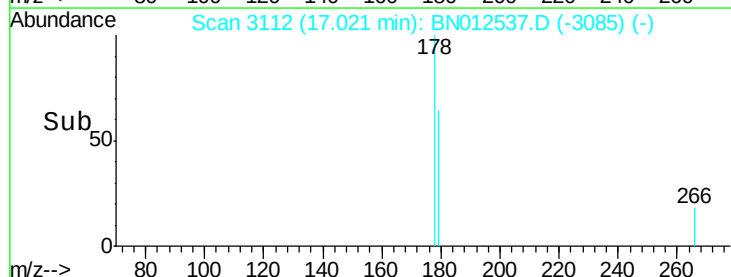
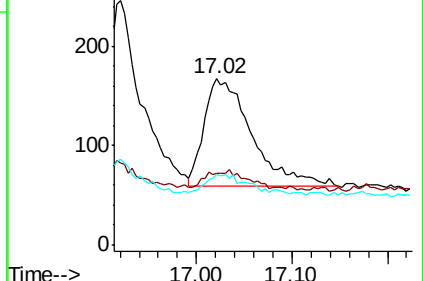
176 41.9 15.9 23.9#

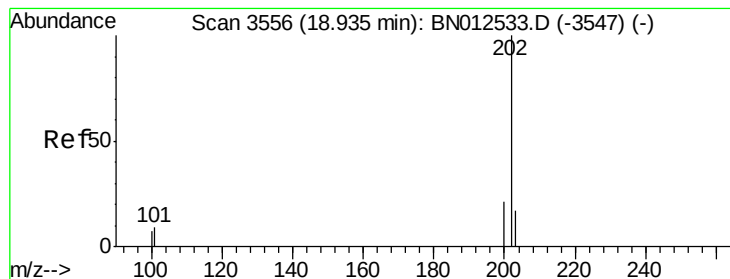


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#18

Fluoranthene

Concen: 0.062 ng/ul

RT: 18.94 min Scan# 3557

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

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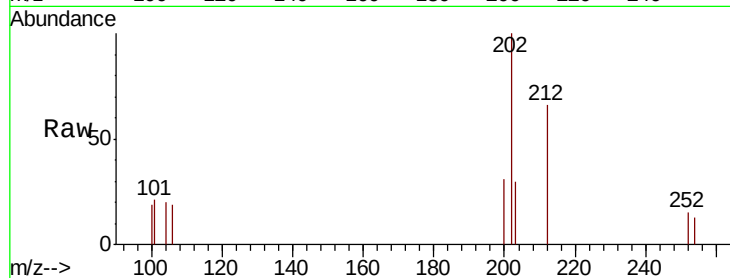
Tot Ion:202 Resp: 618

Ion Ratio Lower Upper

202 100

101 21.3 8.2 12.2#

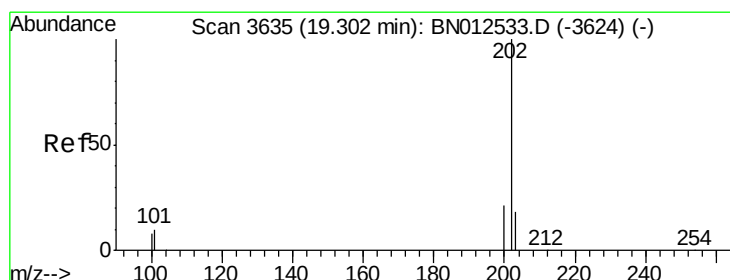
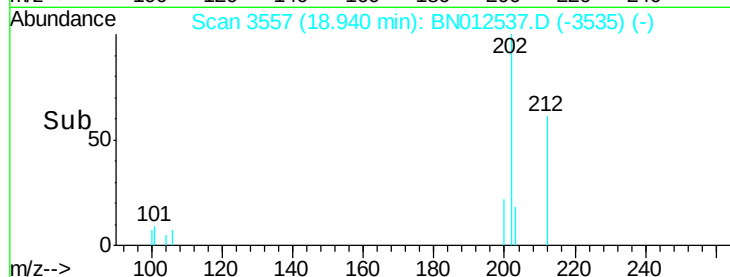
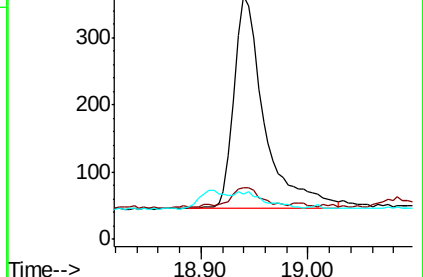
100 18.5 6.9 10.3#



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: 0.060 ng/ul

RT: 19.31 min Scan# 3637

Delta R.T. 0.01 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

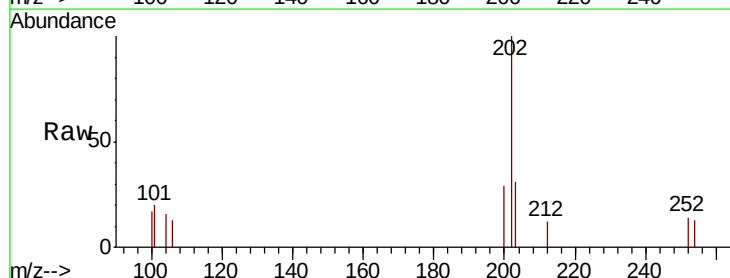
Tgt Ion:202 Resp: 680

Ion Ratio Lower Upper

202 100

101 20.1 9.4 14.2#

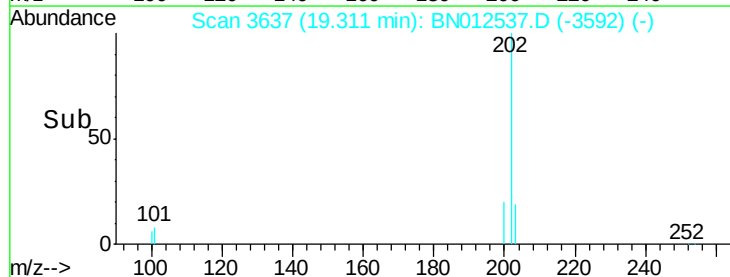
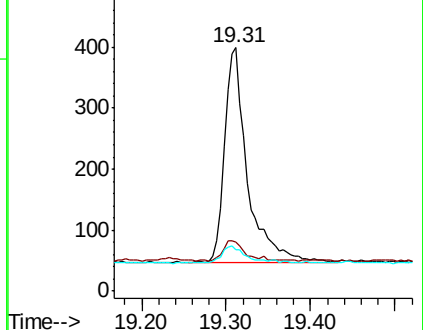
100 16.8 8.6 12.8#

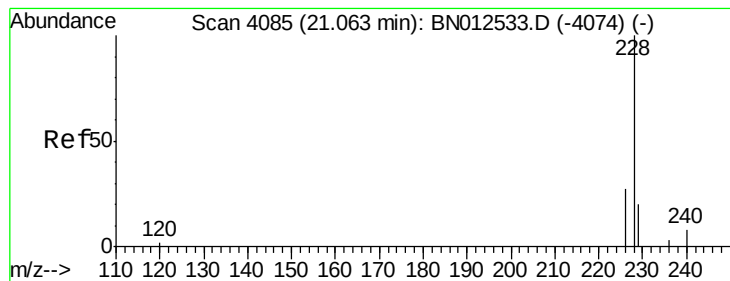


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 0.060 ng/ul

RT: 21.07 min Scan# 4086

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

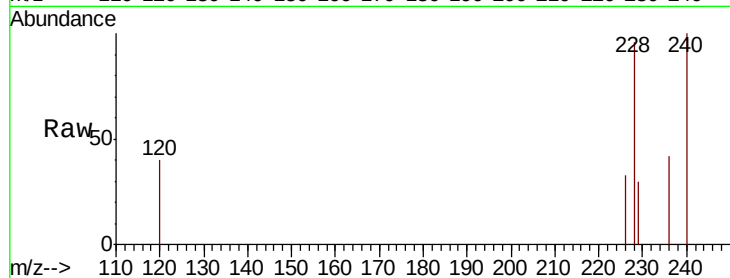
Tot Ion:228 Resp: 529

Ion Ratio Lower Upper

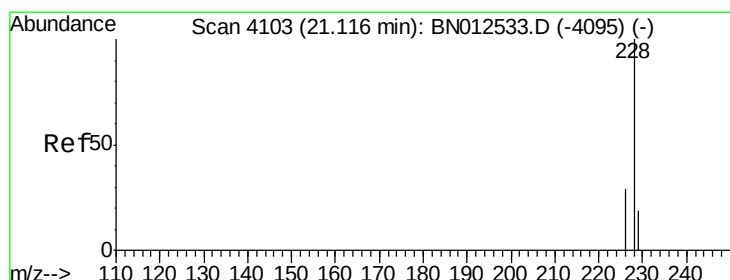
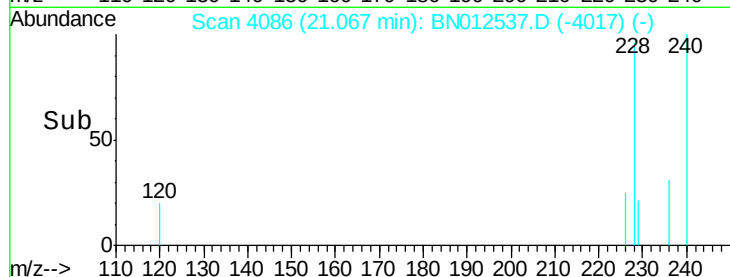
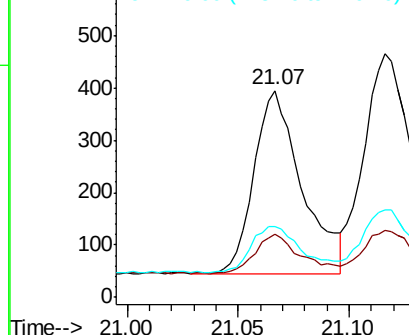
228 100

229 30.6 16.6 25.0#

226 34.4 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: 0.065 ng/ul

RT: 21.12 min Scan# 4103

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

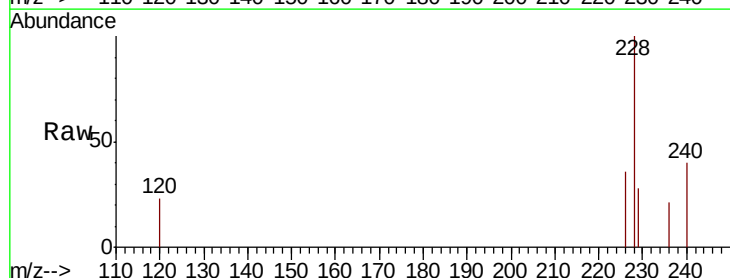
Tgt Ion:228 Resp: 681

Ion Ratio Lower Upper

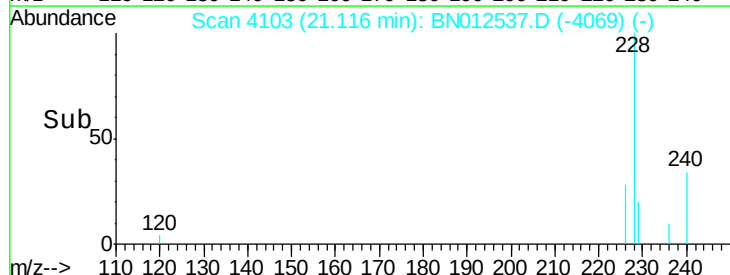
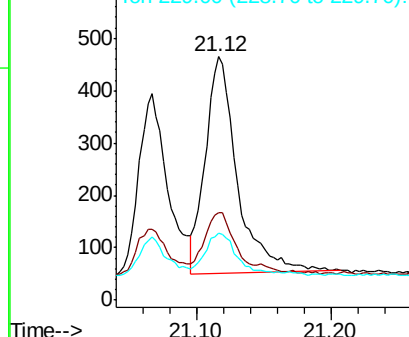
228 100

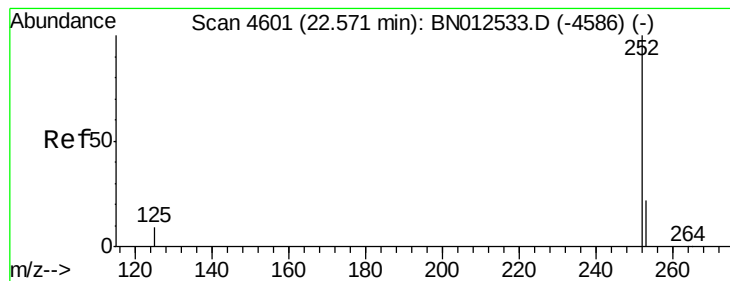
226 36.1 23.9 35.9#

229 27.7 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: 0.060 ng/ul

RT: 22.58 min Scan# 4603

Delta R.T. 0.01 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

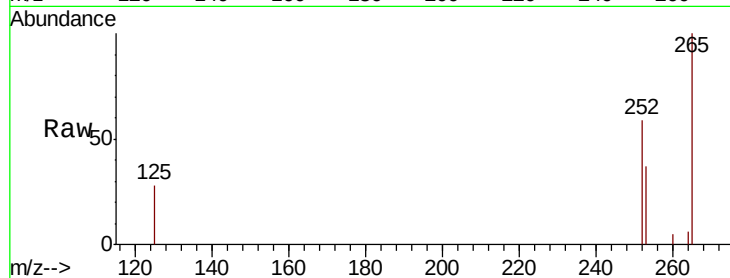
Tot Ion:252 Resp: 649

Ion Ratio Lower Upper

252 100

253 62.3 0.0 59.2#

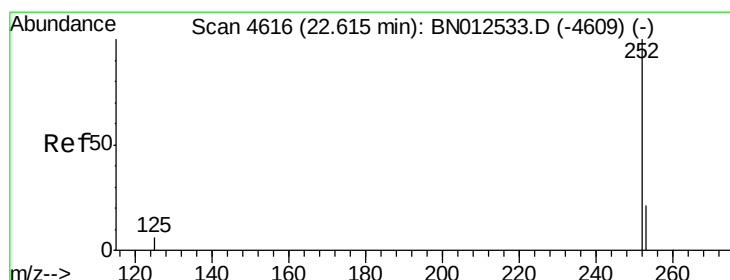
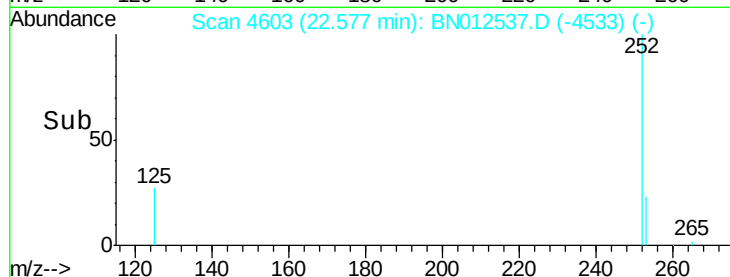
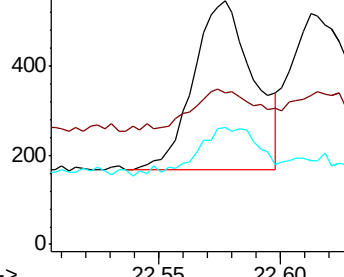
125 47.8 0.0 30.2#



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: 0.063 ng/ul

RT: 22.61 min Scan# 4615

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

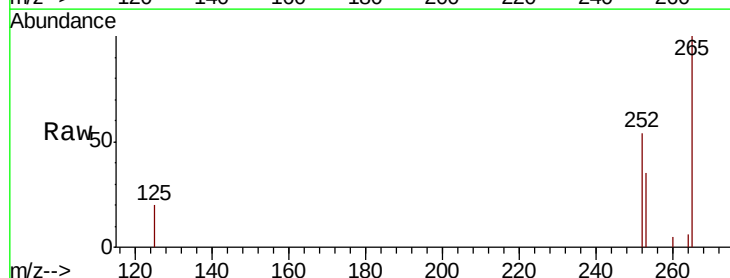
Tgt Ion:252 Resp: 780

Ion Ratio Lower Upper

252 100

253 64.8 23.3 34.9#

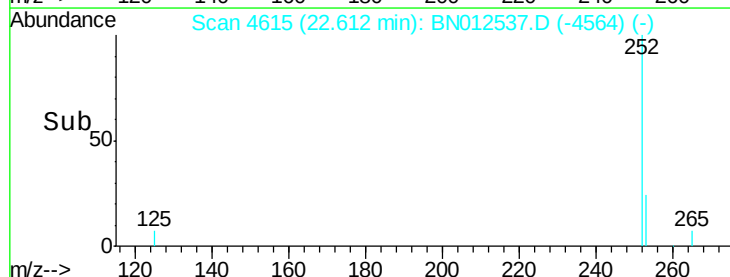
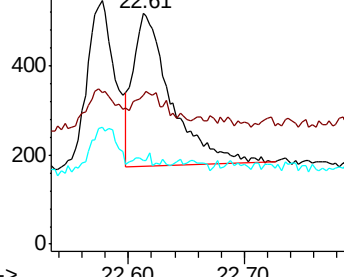
125 36.6 10.6 15.8#

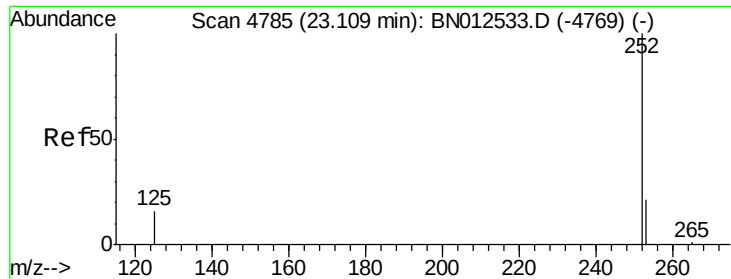


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 0.063 ng/ul

RT: 23.11 min Scan# 4785

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

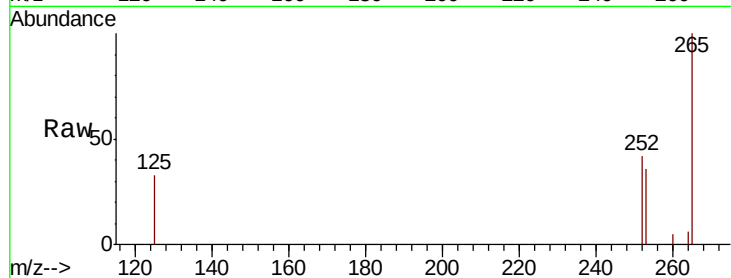
Tot Ion:252 Resp: 634

Ion Ratio Lower Upper

252 100

253 87.5 27.4 41.0#

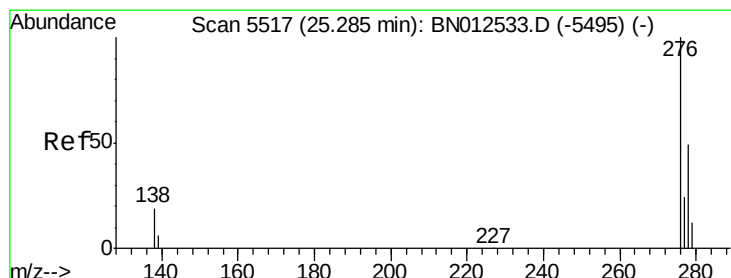
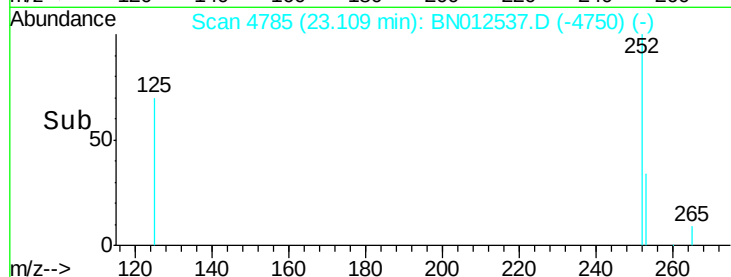
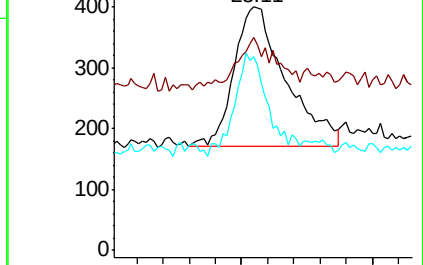
125 79.8 17.7 26.5#



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: 0.059 ng/ul

RT: 25.30 min Scan# 5520

Delta R.T. 0.01 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

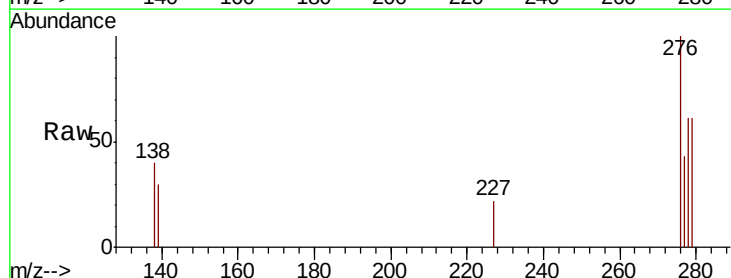
Tgt Ion:276 Resp: 789

Ion Ratio Lower Upper

276 100

138 0.0 16.3 24.5#

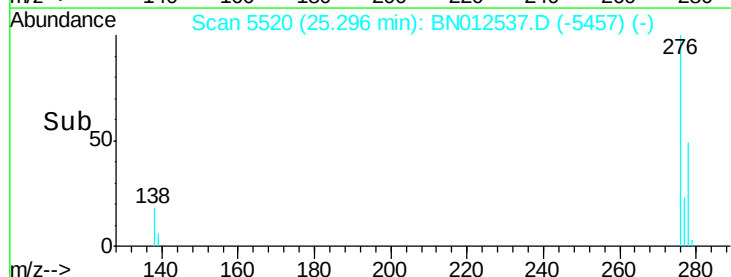
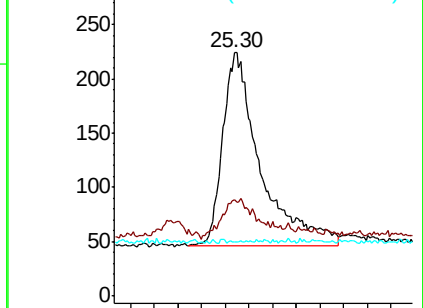
227 0.1 0.1 0.1#

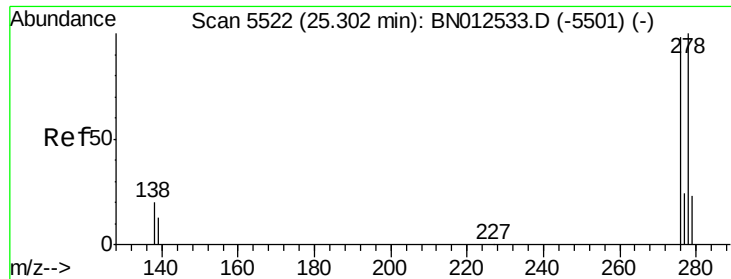


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#28

Dibenzo(a,h)anthracene

Concen: 0.058 ng/ul

RT: 25.32 min Scan# 5526

Delta R.T. 0.02 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-02

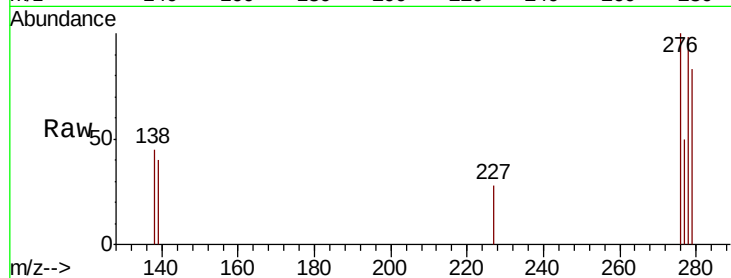
Tot Ion:278 Resp: 616

Ion Ratio Lower Upper

278 100

139 40.9 13.4 20.2#

279 84.1 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

25.32

200

150

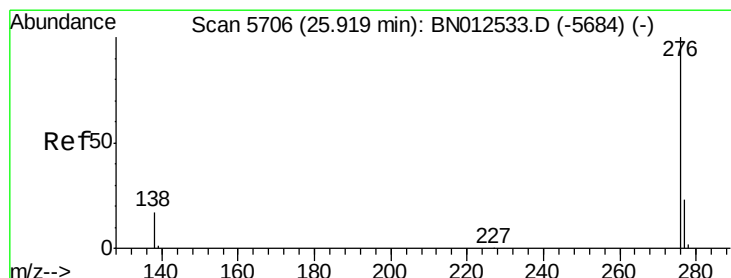
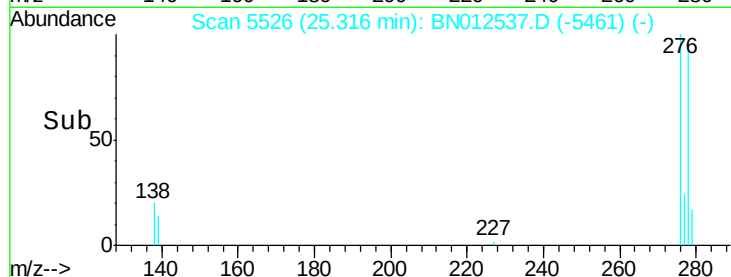
100

50

0

25.20 25.40

Time-->



#29

Benzo(g,h,i)perylene

Concen: 0.059 ng/ul

RT: 25.92 min Scan# 5707

Delta R.T. 0.00 min

Lab File: BN012537.D

Acq: 10 Nov 2020 18:28

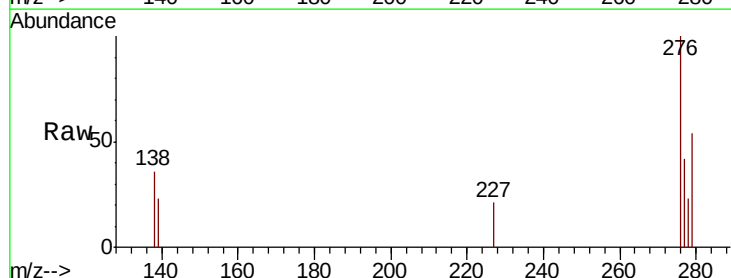
Tgt Ion:276 Resp: 725

Ion Ratio Lower Upper

276 100

138 35.7 17.1 25.7#

277 41.7 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

25.92

300

250

200

150

100

50

0

25.80 25.90 26.00 26.10

Time-->

