

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061725\
 Data File : BN037302.D
 Acq On : 17 Jun 2025 11:58
 Operator : RC/JU
 Sample : Q2117-03
 Misc : MDL-SOIL-0.07 PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-QT2-2025-03

Quant Time: Jun 17 15:10:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN061725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 17 15:03:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/18/2025
 Supervised By :Jagrut Upadhyay 06/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	1124	0.400	ng/ul	0.00
4) Naphthalene-d8	10.349	136	2408	0.400	ng/ul	0.00
9) Acenaphthene-d10	14.225	164	1872	0.400	ng/ul	0.00
13) Phenanthrene-d10	16.978	188	3901	0.400	ng/ul	0.00
17) Chrysene-d12	21.179	240	3838	0.400	ng/ul	0.00
23) Perylene-d12	23.368	264	4452	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.072	96	747	0.716	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.955	152	1937	0.482	ng/ul	0.00
18) Fluoranthene-d10	19.013	212	6197	0.506	ng/ul	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.110	88	77m	0.059	ng/ul	
5) Naphthalene	10.404	128	426	0.067	ng/ul#	69
7) 2-Methylnaphthalene	12.026	142	316	0.069	ng/ul	98
8) 1-Methylnaphthalene	12.252	142	324	0.069	ng/ul	95
10) Acenaphthylene	13.943	152	568	0.067	ng/ul#	78
11) Acenaphthene	14.290	153	415	0.069	ng/ul	94
12) Fluorene	15.290	166	458	0.063	ng/ul#	95
14) Pentachlorophenol	16.640	266	113	0.078	ng/ul	95
15) Phenanthrene	17.020	178	779	0.069	ng/ul#	80
16) Anthracene	17.122	178	643	0.062	ng/ul#	74
19) Fluoranthene	19.041	202	1096	0.072	ng/ul#	81
20) Pyrene	19.408	202	1119	0.072	ng/ul#	84
21) Benzo(a)anthracene	21.168	228	803	0.062	ng/ul#	87
22) Chrysene	21.215	228	1272	0.077	ng/ul#	89
24) Benzo(b)fluoranthene	22.716	252	1034	0.067	ng/ul#	48
25) Benzo(k)fluoranthene	22.760	252	1250	0.068	ng/ul#	48
26) Benzo(a)pyrene	23.272	252	1031	0.066	ng/ul#	38
27) Indeno(1,2,3-cd)pyrene	25.569	276	1310	0.069	ng/ul#	97
28) Dibenzo(a,h)anthracene	25.586	278	968	0.066	ng/ul#	16
29) Benzo(g,h,i)perylene	26.227	276	1168	0.071	ng/ul#	82

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

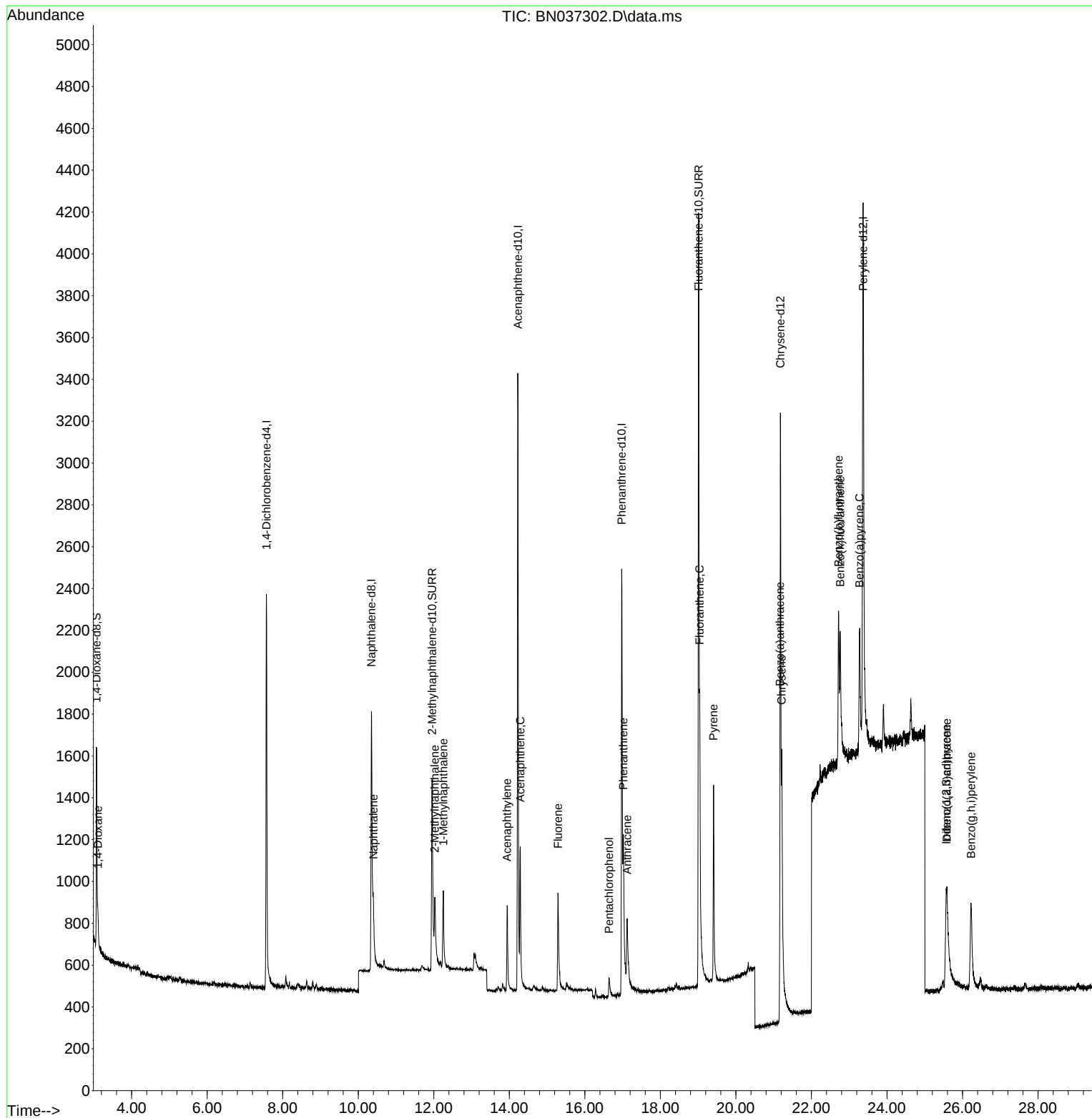
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061725\
Data File : BN037302.D
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Operator : RC/JU
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Misc : MDL-SOIL-0.07 PPM
ALS Vial : 5 Sample Multiplier: 1

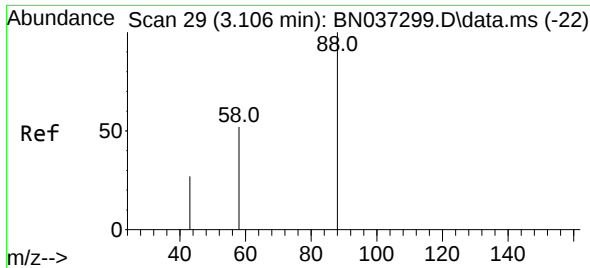
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03

Quant Time: Jun 17 15:10:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN061725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 17 15:03:28 2025
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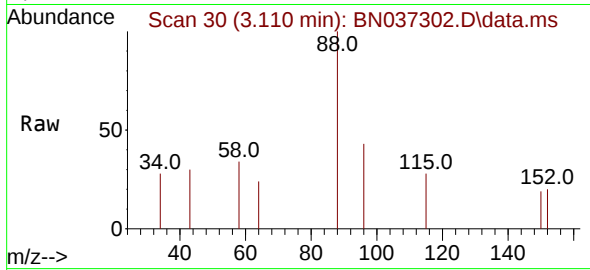
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025





#2
1,4-Dioxane
Concen: 0.059 ng/ul m
RT: 3.110 min Scan# 30
Delta R.T. 0.004 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

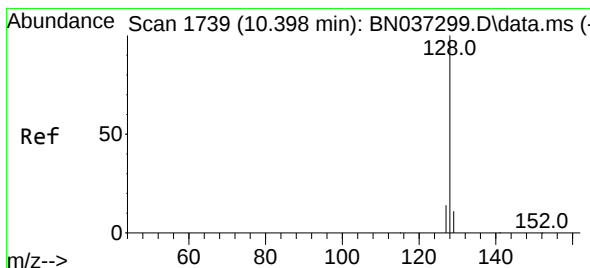
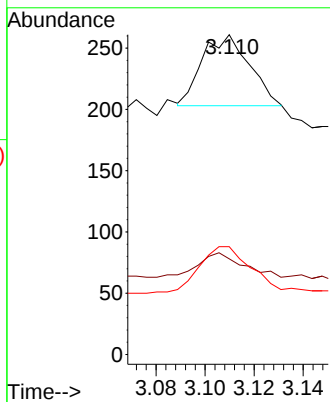
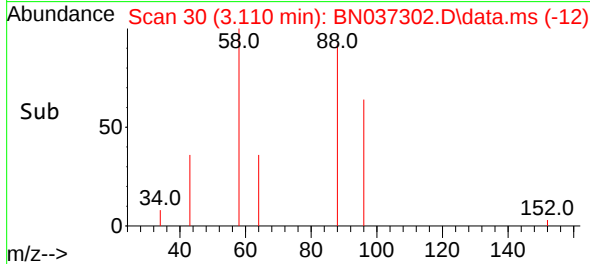
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



Tgt Ion: 88 Resp: 7
Ion Ratio Lower Upper
88 100
43 29.9 27.1 40.7
58 33.7 38.7 58.1

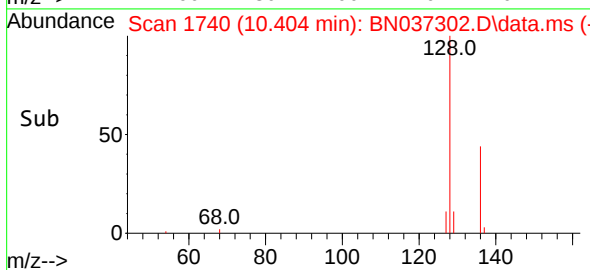
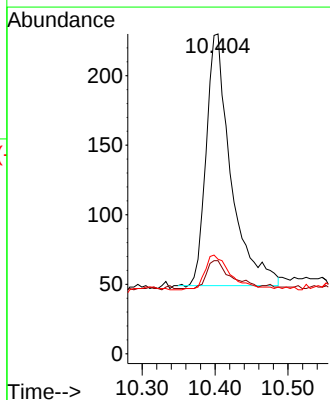
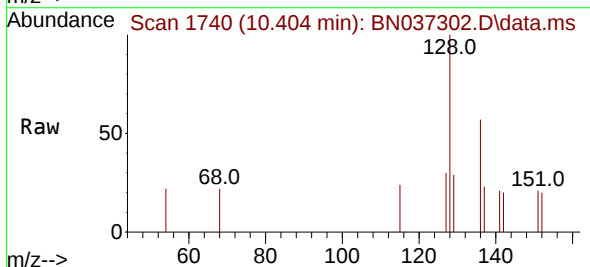
Manual Integrations
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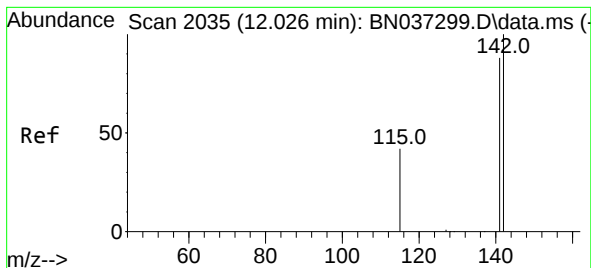
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#5
Naphthalene
Concen: 0.067 ng/ul
RT: 10.404 min Scan# 1740
Delta R.T. 0.006 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

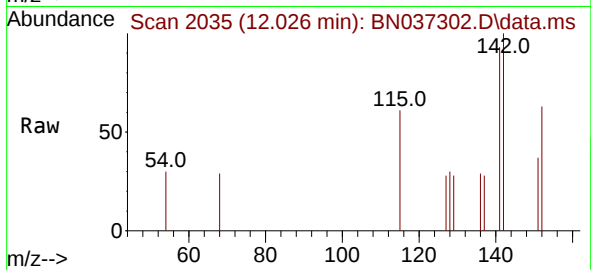
Tgt Ion:128 Resp: 426
Ion Ratio Lower Upper
128 100
129 29.1 11.4 17.2#
127 29.6 14.2 21.2#





#7
2-Methylnaphthalene
Concen: 0.069 ng/ul
RT: 12.026 min Scan# 2035
Delta R.T. 0.000 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

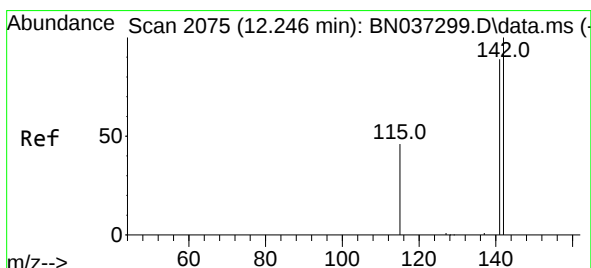
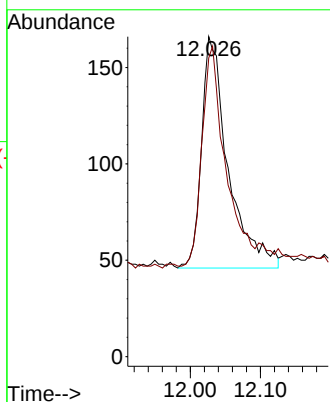
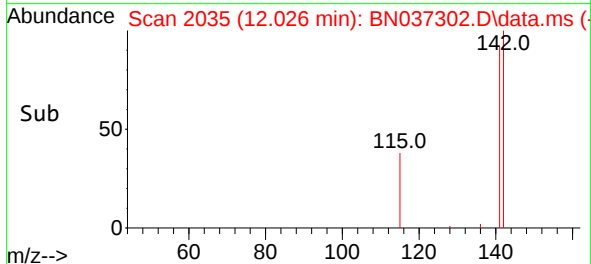
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



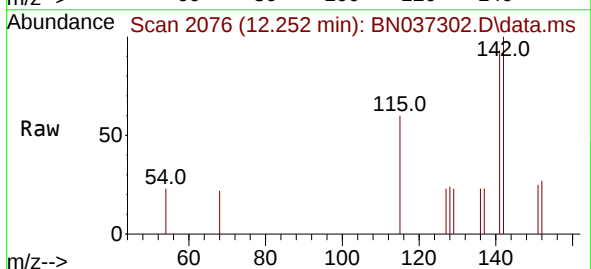
Tgt Ion:142 Resp: 310
Ion Ratio Lower Upper
142 100
141 90.2 70.9 106.3

Manual Integrations
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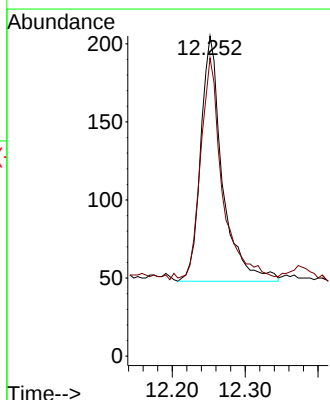
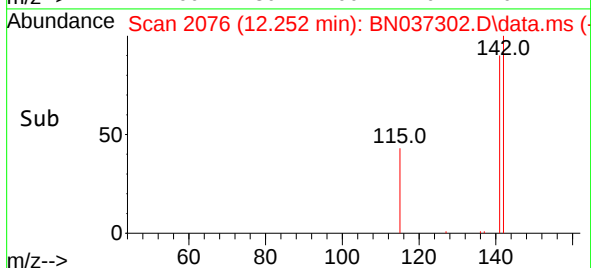
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025

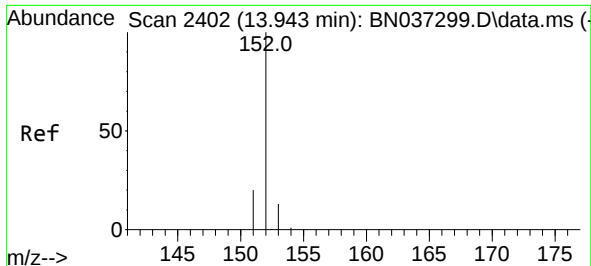


#8
1-Methylnaphthalene
Concen: 0.069 ng/ul
RT: 12.252 min Scan# 2076
Delta R.T. 0.006 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58



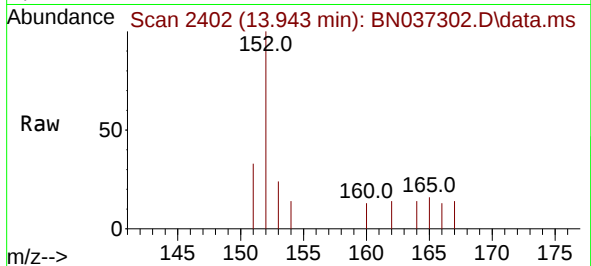
Tgt Ion:142 Resp: 324
Ion Ratio Lower Upper
142 100
141 88.3 74.6 111.8





#10
Acenaphthylene
Concen: 0.067 ng/ul
RT: 13.943 min Scan# 2402
Delta R.T. 0.000 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

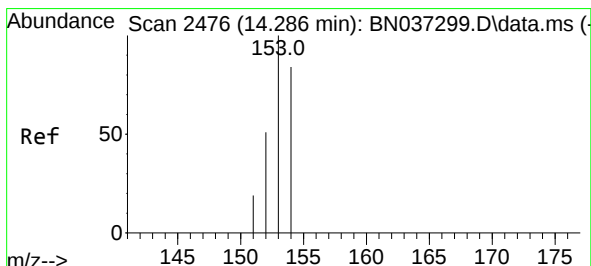
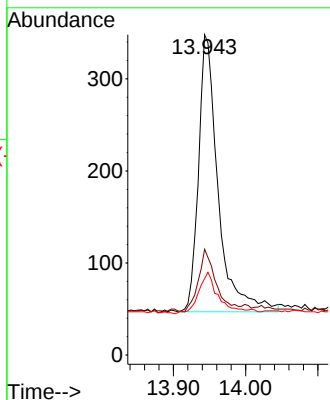
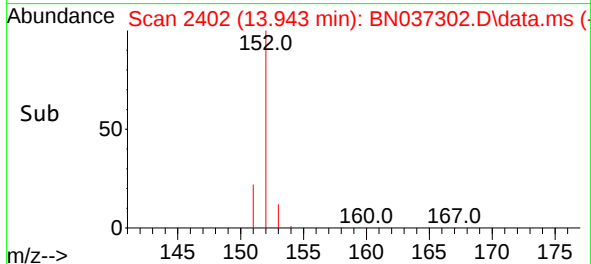
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



Tgt Ion:152 Resp: 568
Ion Ratio Lower Upper
152 100
151 33.0 17.8 26.8
153 23.9 12.2 18.2

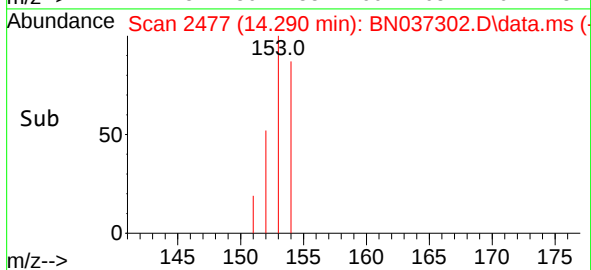
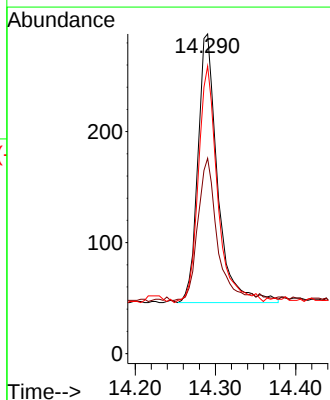
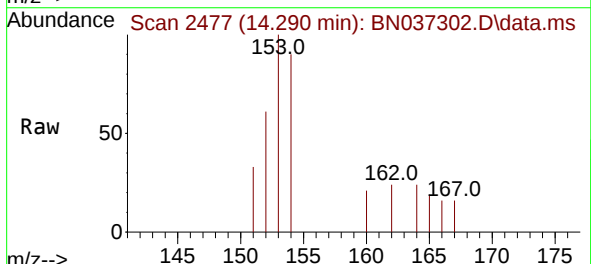
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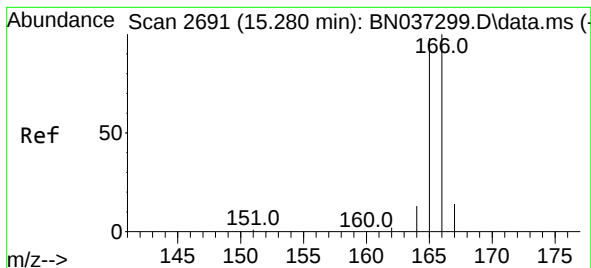
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#11
Acenaphthene
Concen: 0.069 ng/ul
RT: 14.290 min Scan# 2477
Delta R.T. 0.000 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

Tgt Ion:153 Resp: 415
Ion Ratio Lower Upper
153 100
152 61.1 41.1 61.7
154 89.9 70.9 106.3





#12

Fluorene

Concen: 0.063 ng/ul

RT: 15.290 min Scan# 2691

Delta R.T. 0.005 min

Lab File: BN037302.D

Acq: 17 Jun 2025 11:58

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT2-2025-03

Tgt Ion:166 Resp: 458

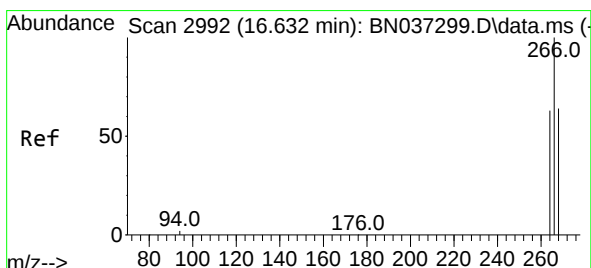
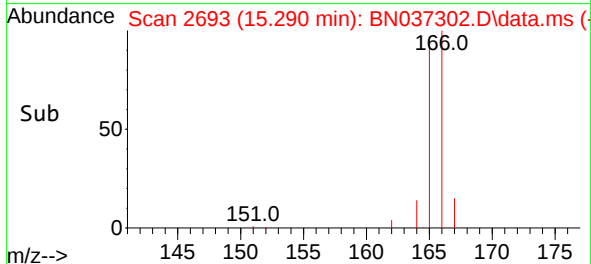
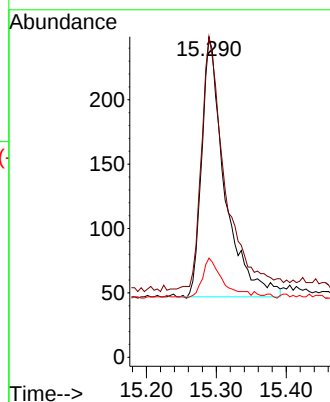
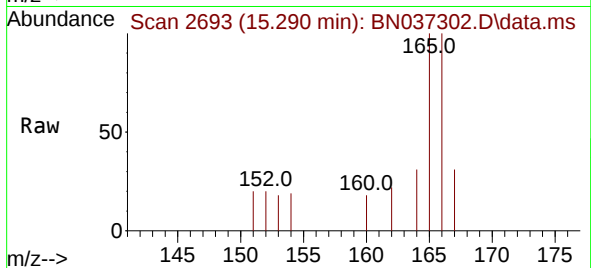
Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.6
167	31.0	13.0	19.6

Manual Integrations

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Reviewed By :Rahul Chavli 06/18/2025

Supervised By :Jagrut Upadhyay 06/18/2025



#14

Pentachlorophenol

Concen: 0.078 ng/ul

RT: 16.640 min Scan# 2994

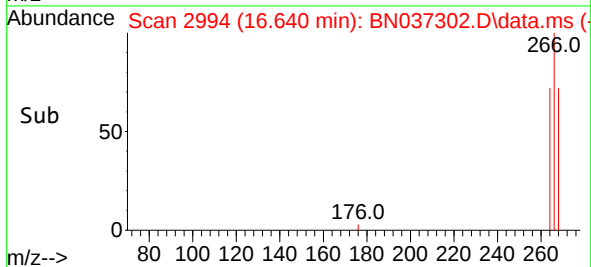
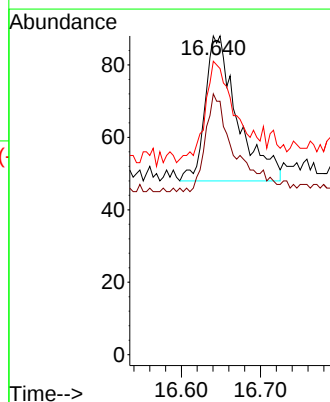
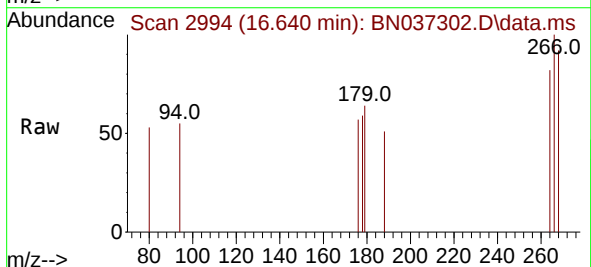
Delta R.T. 0.004 min

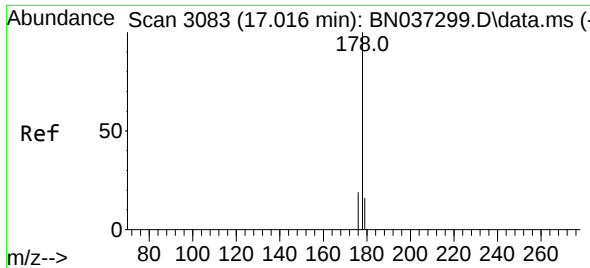
Lab File: BN037302.D

Acq: 17 Jun 2025 11:58

Tgt Ion:266 Resp: 113

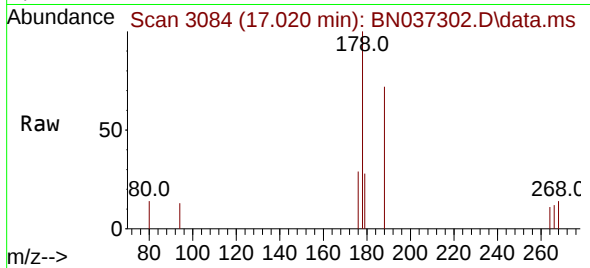
Ion	Ratio	Lower	Upper
266	100		
264	61.1	50.5	75.7
268	69.9	51.9	77.9





#15
Phenanthrene
Concen: 0.069 ng/u1
RT: 17.020 min Scan# 3084
Delta R.T. 0.004 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

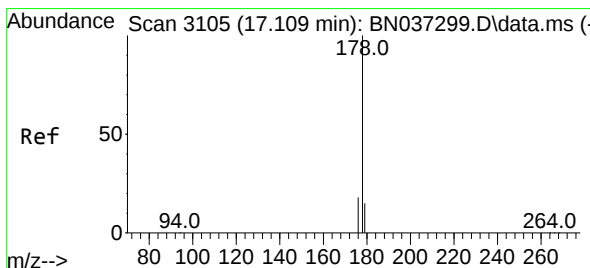
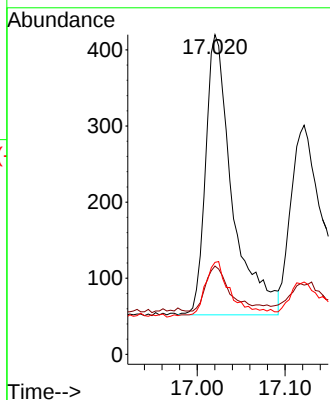
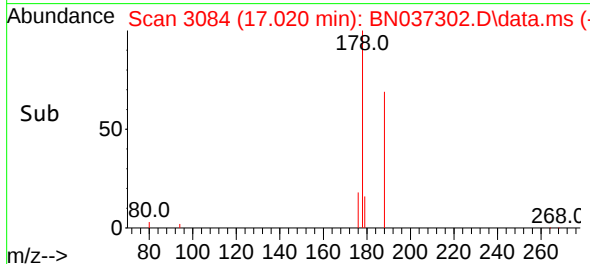
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



Tgt Ion:178 Resp: 779
Ion Ratio Lower Upper
178 100
179 27.6 13.7 20.5
176 28.8 16.6 24.8

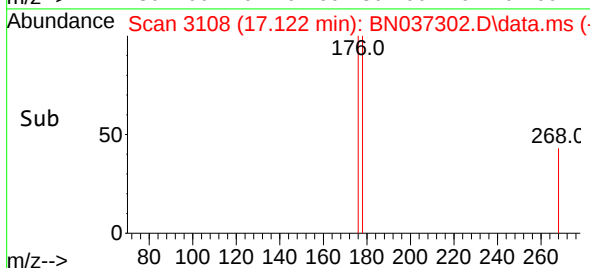
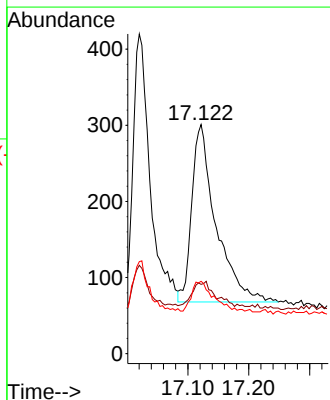
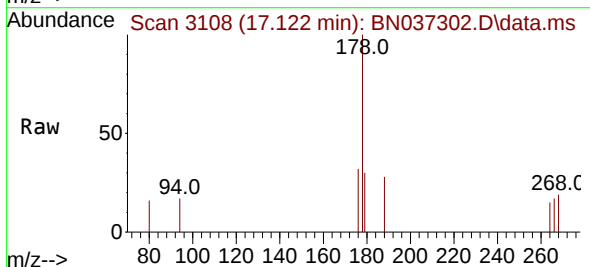
Manual Integrations
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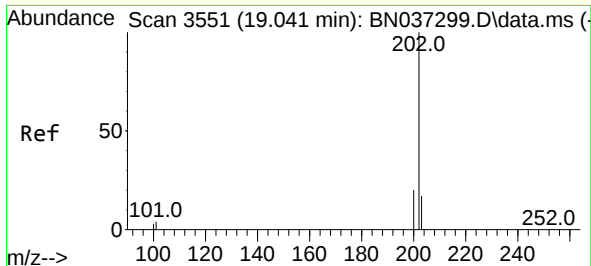
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#16
Anthracene
Concen: 0.062 ng/u1
RT: 17.122 min Scan# 3108
Delta R.T. 0.009 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

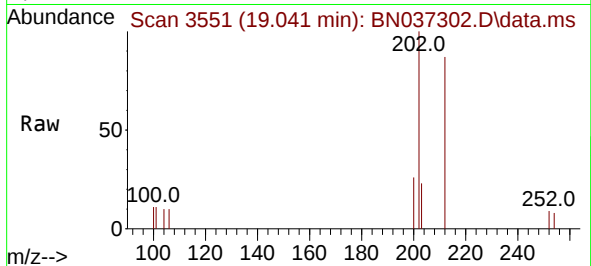
Tgt Ion:178 Resp: 643
Ion Ratio Lower Upper
178 100
179 30.2 13.8 20.8#
176 31.6 16.8 25.2#





#19
Fluoranthene
Concen: 0.072 ng/ul
RT: 19.041 min Scan# 3551
Delta R.T. 0.000 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

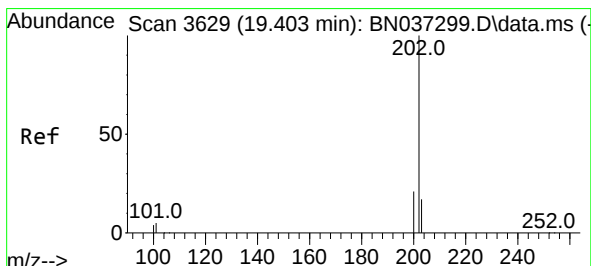
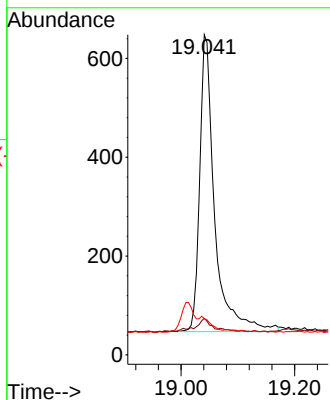
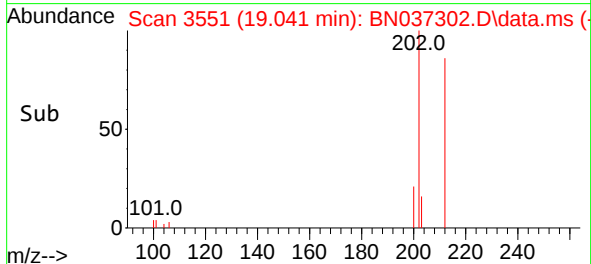
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



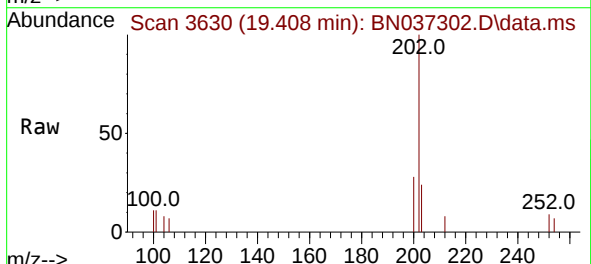
Tgt Ion:202 Resp: 1090
Ion Ratio Lower Upper
202 100
101 11.4 4.3 6.5#
100 11.3 3.6 5.4#

Manual Integrations
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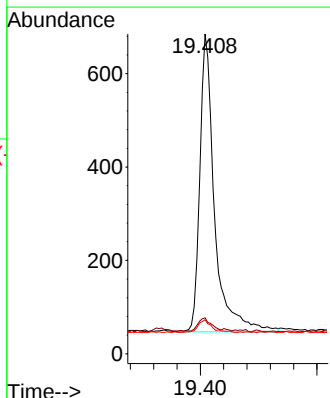
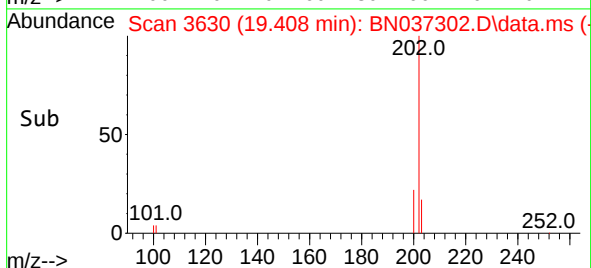
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025

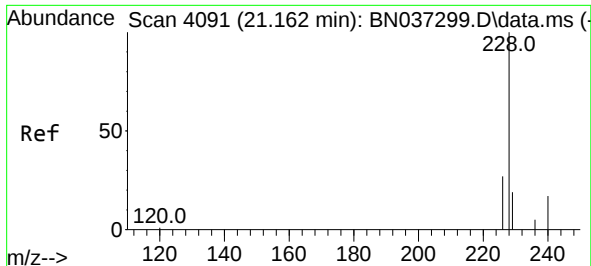


#20
Pyrene
Concen: 0.072 ng/ul
RT: 19.408 min Scan# 3630
Delta R.T. 0.005 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58



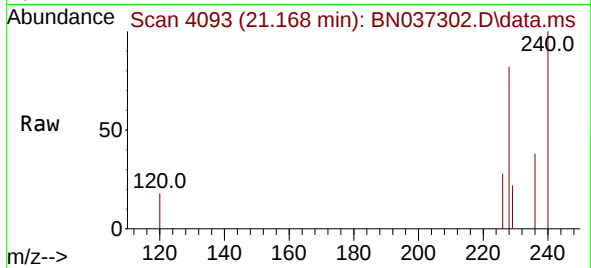
Tgt Ion:202 Resp: 1119
Ion Ratio Lower Upper
202 100
101 11.2 4.8 7.2#
100 10.7 4.2 6.2#





#21
Benzo(a)anthracene
Concen: 0.062 ng/u1
RT: 21.168 min Scan# 4093
Delta R.T. 0.009 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

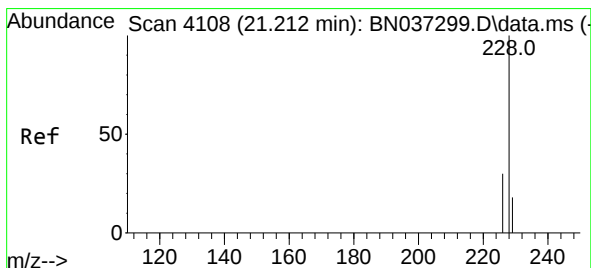
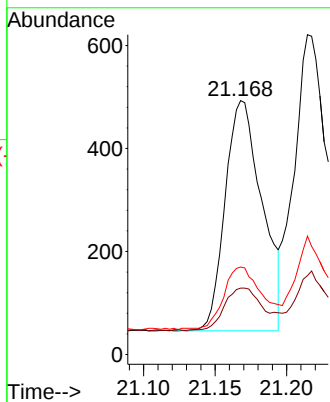
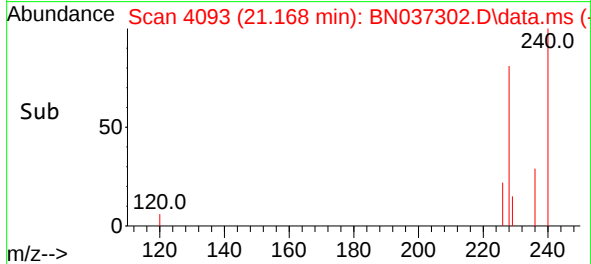
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



Tgt Ion:228 Resp: 800
Ion Ratio Lower Upper
228 100
229 26.2 16.1 24.1#
226 34.5 22.2 33.4#

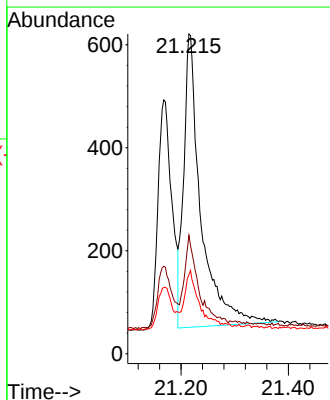
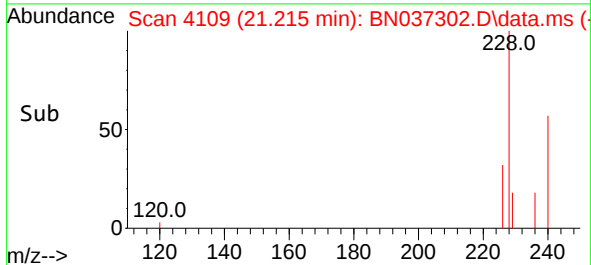
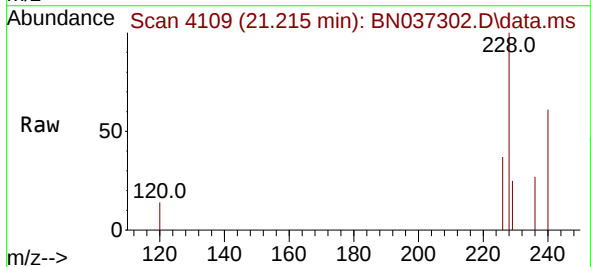
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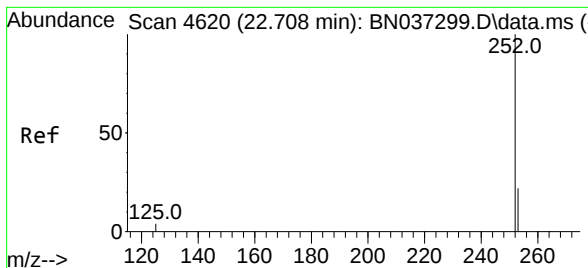
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#22
Chrysene
Concen: 0.077 ng/u1
RT: 21.215 min Scan# 4109
Delta R.T. 0.003 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

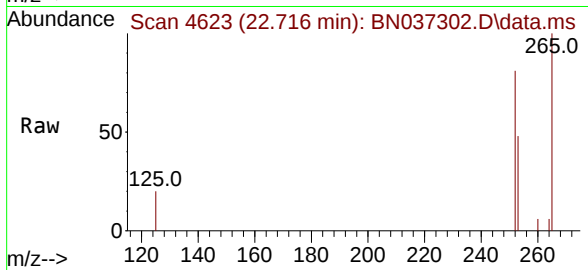
Tgt Ion:228 Resp: 1272
Ion Ratio Lower Upper
228 100
226 37.0 24.6 36.8#
229 24.6 16.0 24.0#





#24
Benzo(b)fluoranthene
Concen: 0.067 ng/ul
RT: 22.716 min Scan# 4623
Delta R.T. 0.009 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

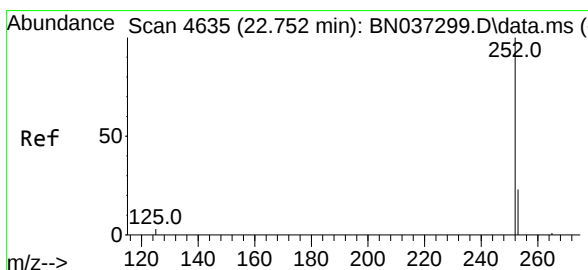
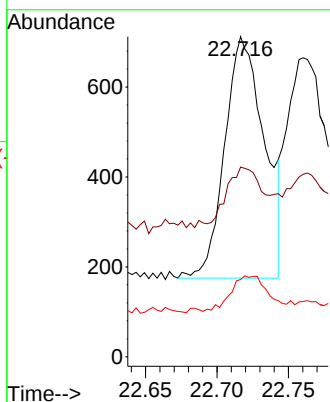
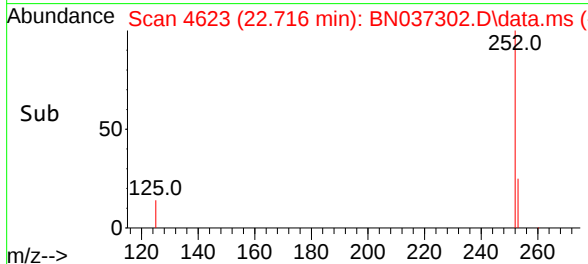
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



Tgt Ion:252 Resp: 1034
Ion Ratio Lower Upper
252 100
253 59.3 0.0 60.2
125 24.2 0.0 16.2

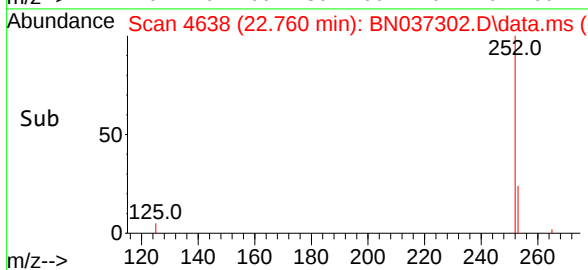
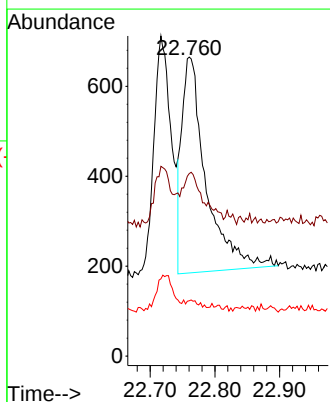
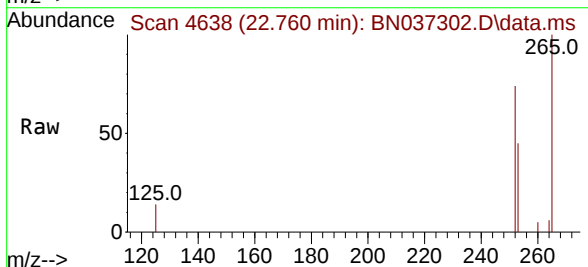
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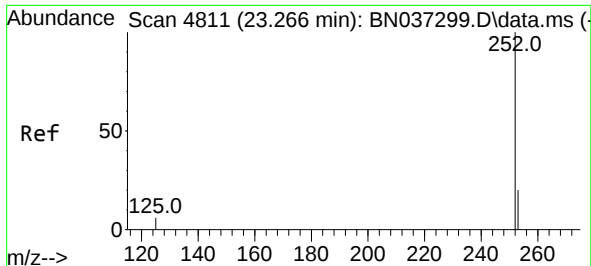
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#25
Benzo(k)fluoranthene
Concen: 0.068 ng/ul
RT: 22.760 min Scan# 4638
Delta R.T. 0.009 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

Tgt Ion:252 Resp: 1250
Ion Ratio Lower Upper
252 100
253 61.1 24.0 36.0#
125 18.5 5.9 8.9#





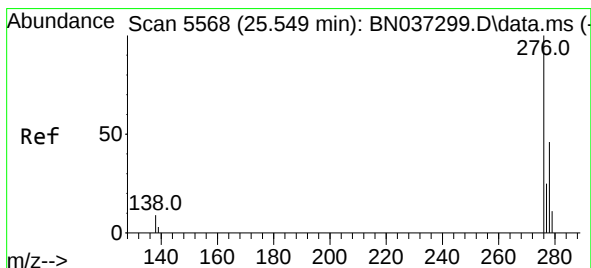
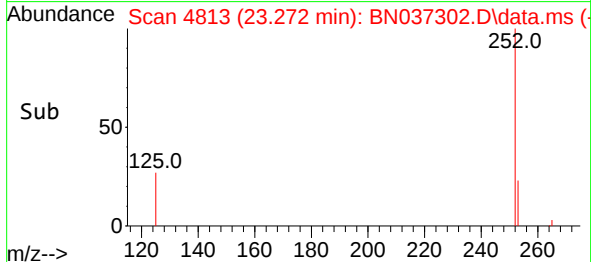
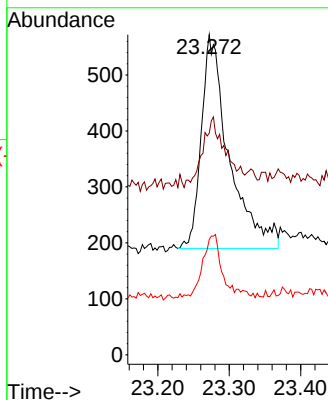
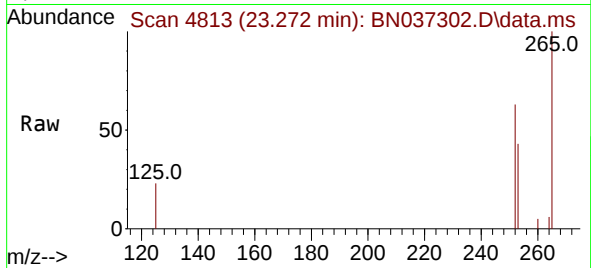
#26
Benzo(a)pyrene
Concen: 0.066 ng/ul
RT: 23.272 min Scan# 4811
Delta R.T. 0.006 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03

Tgt Ion:252 Resp: 103
Ion Ratio Lower Upper
252 100
253 69.2 27.4 41.2
125 36.0 8.6 13.0

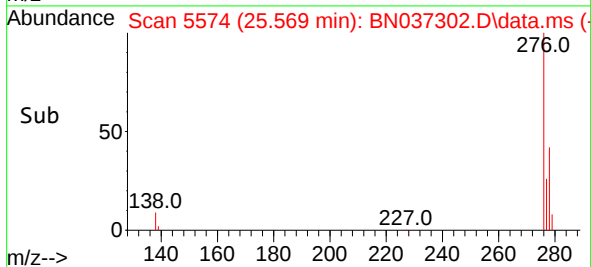
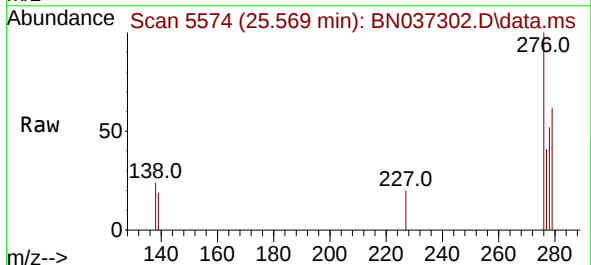
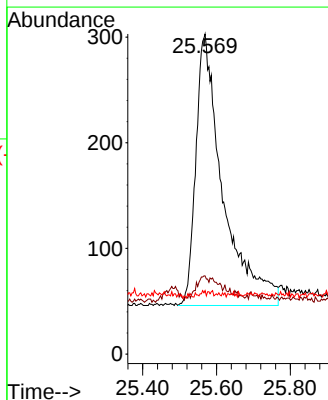
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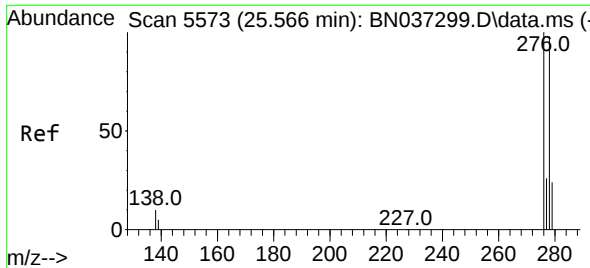
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.069 ng/ul
RT: 25.569 min Scan# 5574
Delta R.T. 0.024 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

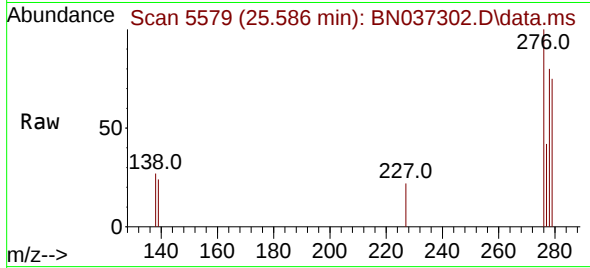
Tgt Ion:276 Resp: 1310
Ion Ratio Lower Upper
276 100
138 8.3 7.5 11.3
227 0.2 0.1 0.1





#28
Dibenzo(a,h)anthracene
Concen: 0.066 ng/ul
RT: 25.586 min Scan# 51
Delta R.T. 0.020 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58

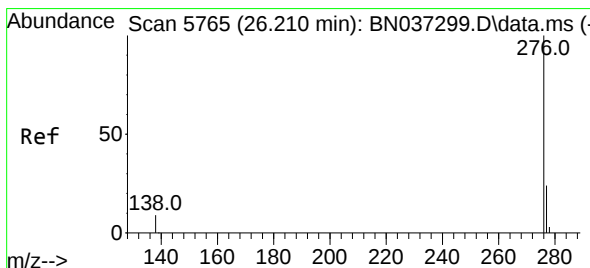
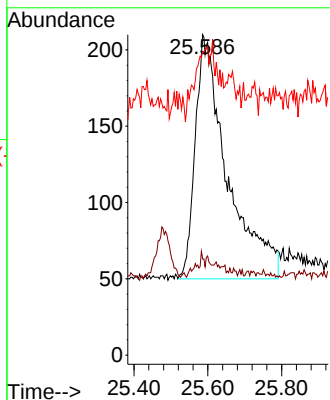
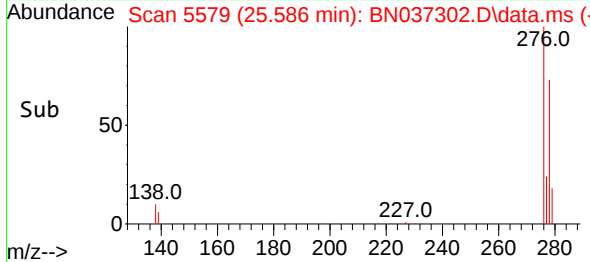
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-03



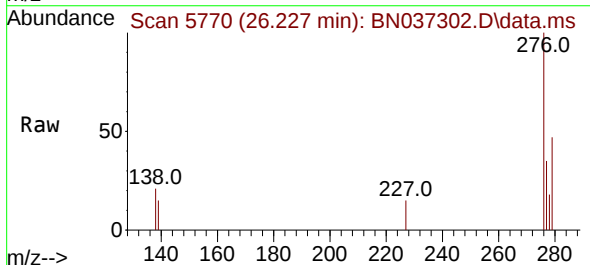
Tgt Ion:278 Resp: 968
Ion Ratio Lower Upper
278 100
139 30.0 8.6 12.8#
279 94.8 30.6 46.0#

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Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#29
Benzo(g,h,i)perylene
Concen: 0.071 ng/ul
RT: 26.227 min Scan# 5770
Delta R.T. 0.013 min
Lab File: BN037302.D
Acq: 17 Jun 2025 11:58



Tgt Ion:276 Resp: 1168
Ion Ratio Lower Upper
276 100
138 21.2 9.4 14.2#
277 34.6 21.6 32.4#

