

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061825\
 Data File : BN037309.D
 Acq On : 18 Jun 2025 11:20
 Operator : RC/JU
 Sample : Q2117-04
 Misc : MDL-SOIL-0.07 PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-QT2-2025-04

Quant Time: Jun 18 12:23:07 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	7.578	152	626	0.400	ng/ul	0.00
4) Naphthalene-d8	10.360	136	1399	0.400	ng/ul	# 0.01
9) Acenaphthene-d10	14.225	164	1150	0.400	ng/ul	0.00
13) Phenanthrene-d10	16.987	188	2199	0.400	ng/ul	# 0.00
17) Chrysene-d12	21.182	240	2224	0.400	ng/ul	# 0.00
23) Perylene-d12	23.363	264	2577	0.400	ng/ul	# 0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.072	96	438	0.754	ng/ul	0.00
6) 2-Methylnaphthalene-d10	11.966	152	770	0.330	ng/ul	0.01
18) Fluoranthene-d10	19.018	212	2394	0.337	ng/ul	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.106	88	49m	0.067	ng/ul	
5) Naphthalene	10.409	128	277	0.075	ng/ul#	48
7) 2-Methylnaphthalene	12.037	142	192	0.072	ng/ul	100
8) 1-Methylnaphthalene	12.252	142	200	0.073	ng/ul	96
10) Acenaphthylene	13.948	152	361	0.069	ng/ul#	64
11) Acenaphthene	14.295	153	276	0.075	ng/ul	95
12) Fluorene	15.303	166	283	0.063	ng/ul#	91
14) Pentachlorophenol	16.649	266	51	0.063	ng/ul#	86
15) Phenanthrene	17.025	178	442	0.069	ng/ul#	64
16) Anthracene	17.134	178	350	0.060	ng/ul#	43
19) Fluoranthene	19.045	202	654	0.074	ng/ul#	63
20) Pyrene	19.413	202	673	0.075	ng/ul#	68
21) Benzo(a)anthracene	21.171	228	427	0.057	ng/ul#	73
22) Chrysene	21.214	228	707	0.074	ng/ul#	82
24) Benzo(b)fluoranthene	22.716	252	552	0.062	ng/ul#	24
25) Benzo(k)fluoranthene	22.760	252	741	0.070	ng/ul#	30
26) Benzo(a)pyrene	23.278	252	647	0.072	ng/ul#	10
27) Indeno(1,2,3-cd)pyrene	25.566	276	760	0.069	ng/ul#	86
28) Dibenzo(a,h)anthracene	25.616	278	531	0.062	ng/ul#	1
29) Benzo(g,h,i)perylene	26.227	276	701	0.074	ng/ul#	58

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

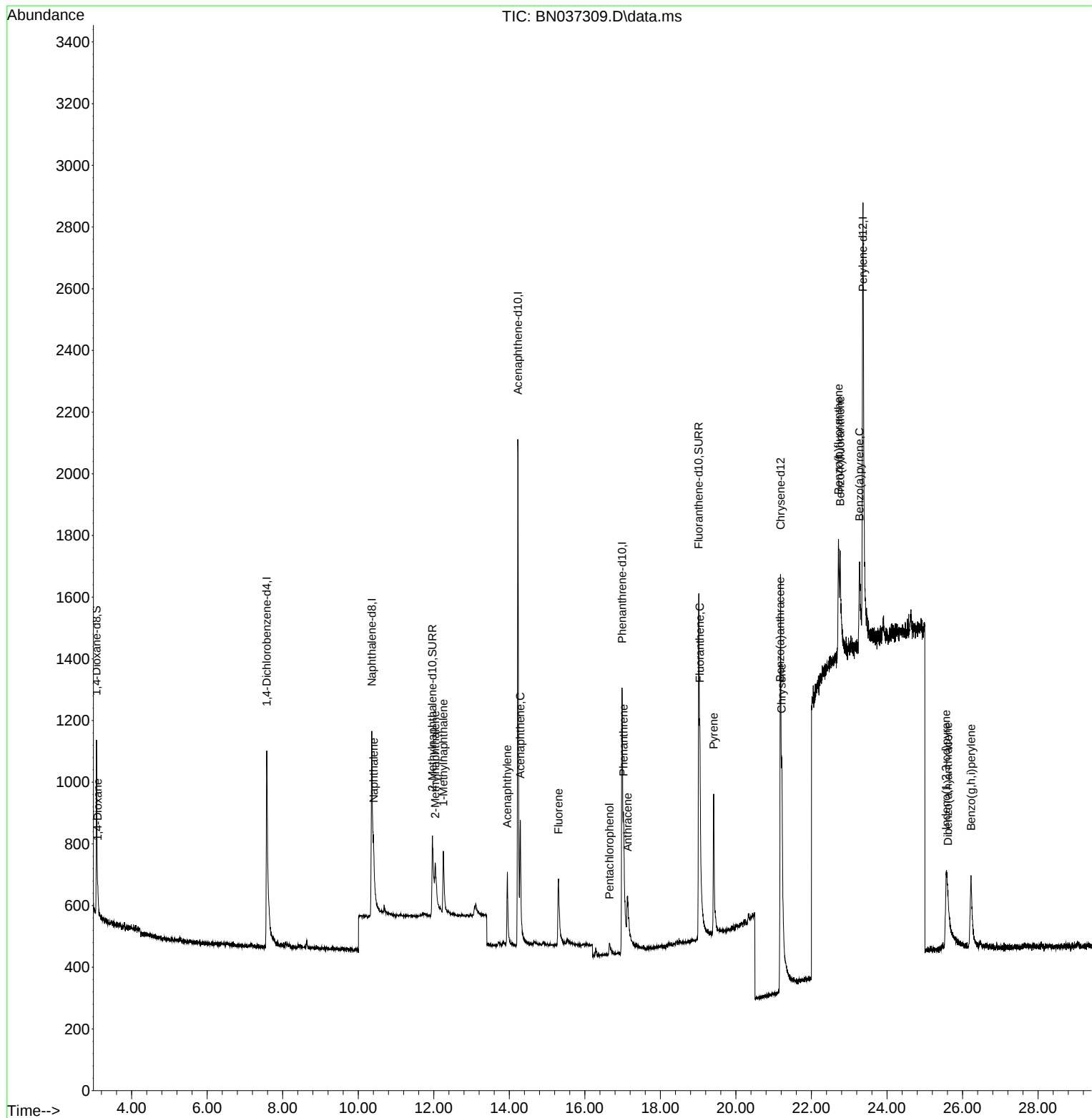
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061825\
Data File : BN037309.D
Acq On : 18 Jun 2025 11:20
Operator : RC/JU
Sample : Q2117-04
Misc : MDL-SOIL-0.07 PPM
ALS Vial : 5 Sample Multiplier: 1

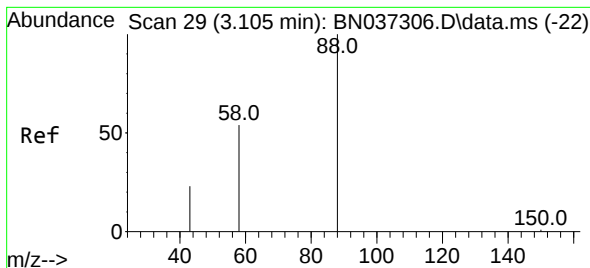
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04

Quant Time: Jun 18 12:23:07 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

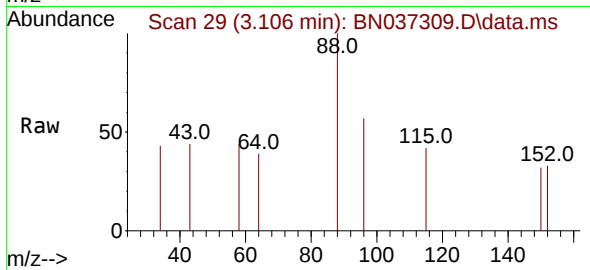
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025





#2
1,4-Dioxane
Concen: 0.067 ng/ul m
RT: 3.106 min Scan# 29
Delta R.T. 0.000 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

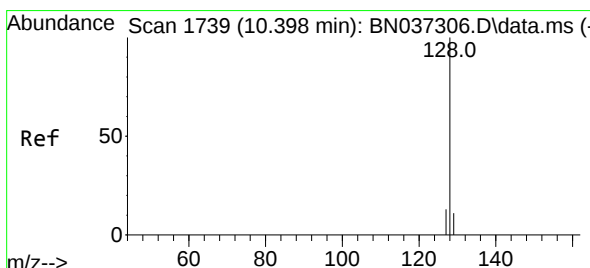
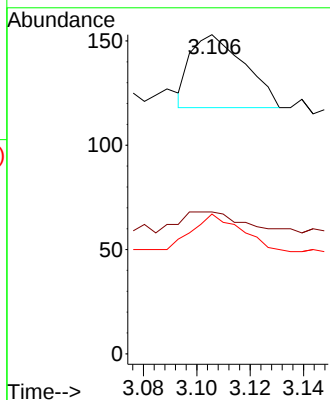
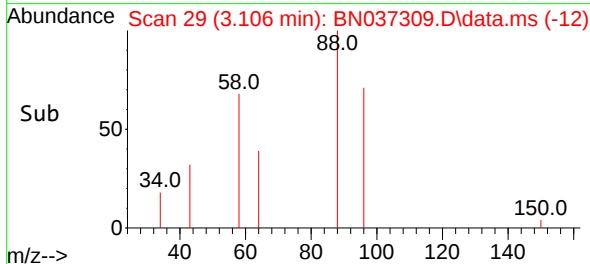
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



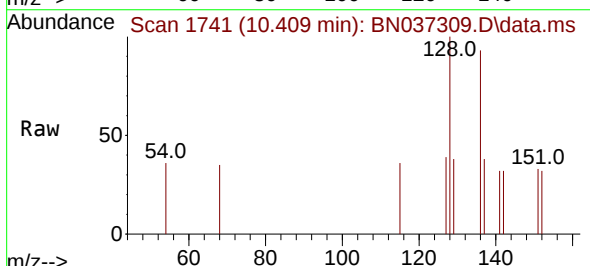
Tgt Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 44.4 27.1 40.7
58 43.8 38.7 58.1

Manual Integrations
APPROVED

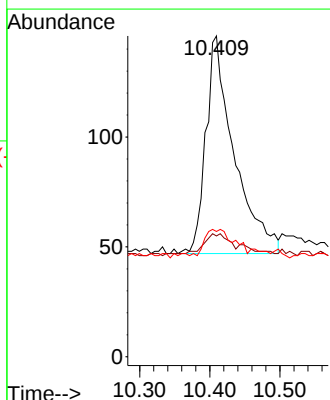
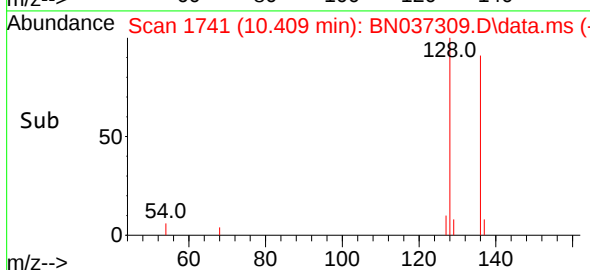
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025

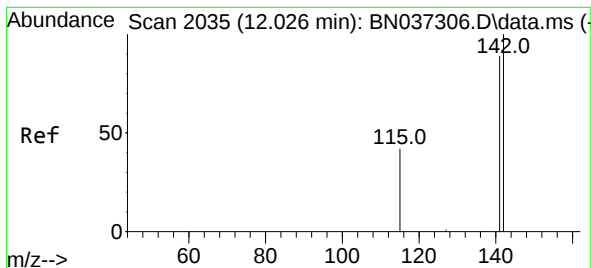


#5
Naphthalene
Concen: 0.075 ng/ul
RT: 10.409 min Scan# 1741
Delta R.T. 0.011 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20



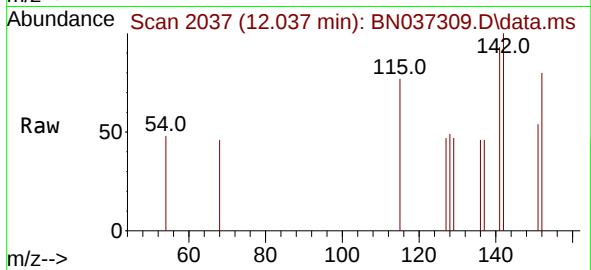
Tgt Ion:128 Resp: 277
Ion Ratio Lower Upper
128 100
129 37.7 11.4 17.2#
127 39.0 14.2 21.2#





#7
2-Methylnaphthalene
Concen: 0.072 ng/ul
RT: 12.037 min Scan# 2037
Delta R.T. 0.011 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

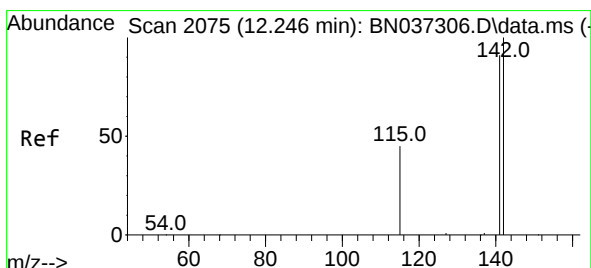
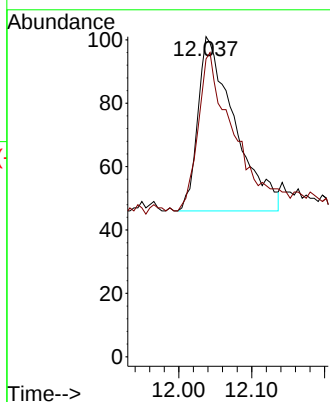
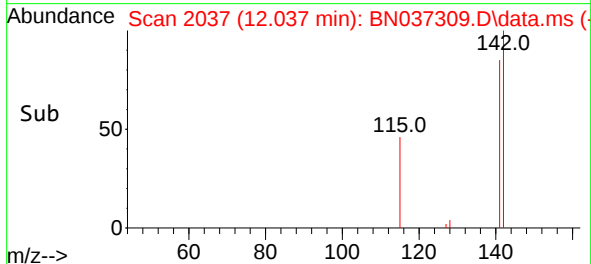
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



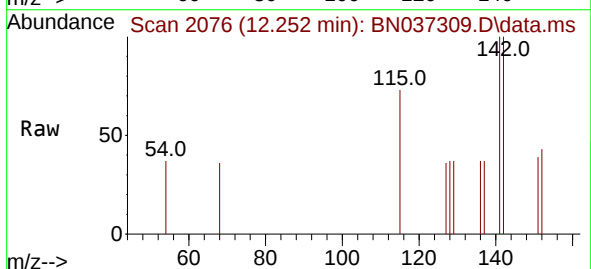
Tgt Ion:142 Resp: 192
Ion Ratio Lower Upper
142 100
141 89.1 70.9 106.3

Manual Integrations
APPROVED

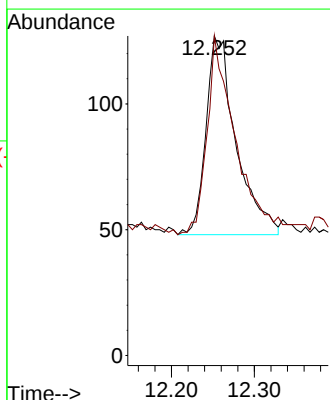
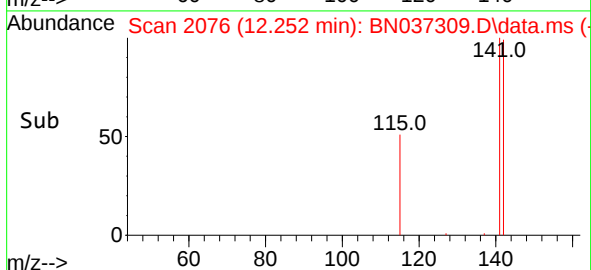
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025

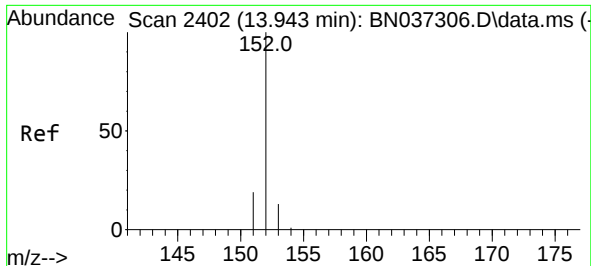


#8
1-Methylnaphthalene
Concen: 0.073 ng/ul
RT: 12.252 min Scan# 2076
Delta R.T. 0.006 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20



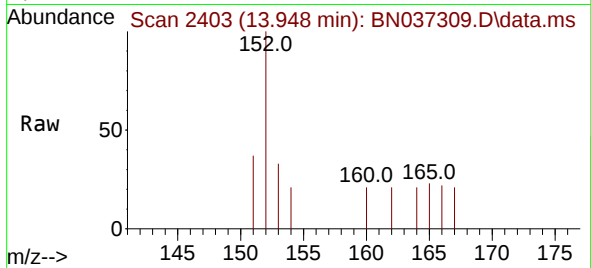
Tgt Ion:142 Resp: 200
Ion Ratio Lower Upper
142 100
141 97.0 74.6 111.8





#10
Acenaphthylene
Concen: 0.069 ng/ul
RT: 13.948 min Scan# 2403
Delta R.T. 0.005 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

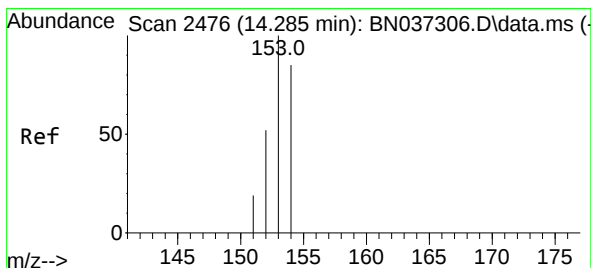
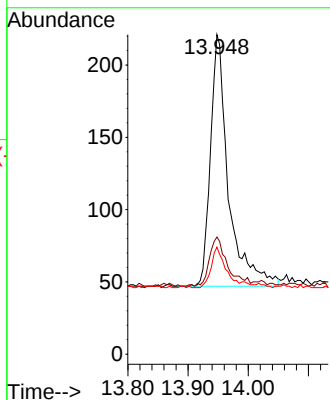
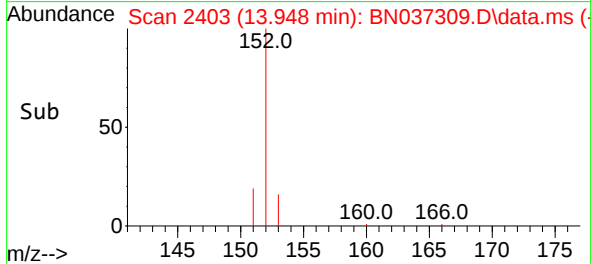
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



Tgt Ion:152 Resp: 36
Ion Ratio Lower Upper
152 100
151 36.7 17.8 26.8
153 33.5 12.2 18.2

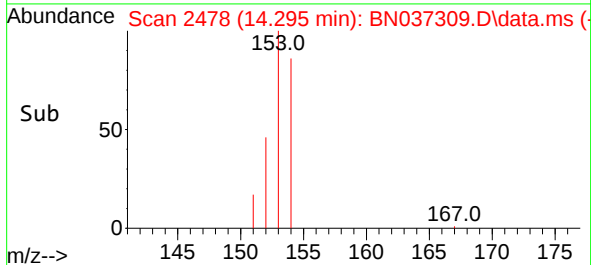
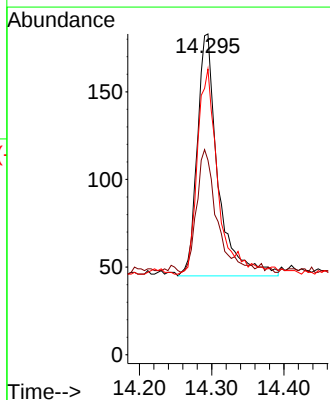
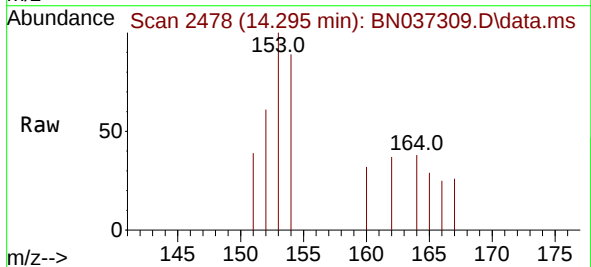
Manual Integrations
APPROVED

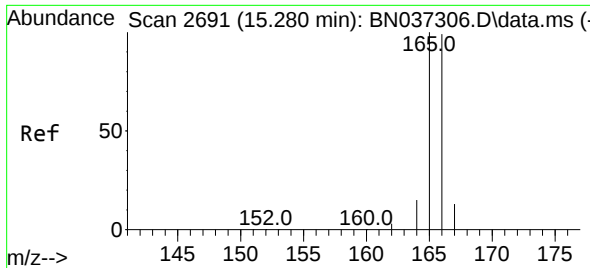
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#11
Acenaphthene
Concen: 0.075 ng/ul
RT: 14.295 min Scan# 2478
Delta R.T. 0.005 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

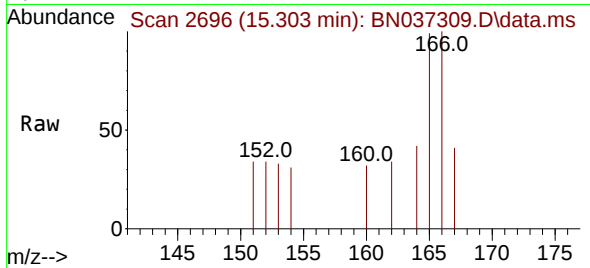
Tgt Ion:153 Resp: 276
Ion Ratio Lower Upper
153 100
152 60.7 41.1 61.7
154 89.1 70.9 106.3





#12
Fluorene
Concen: 0.063 ng/ul
RT: 15.303 min Scan# 2696
Delta R.T. 0.019 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

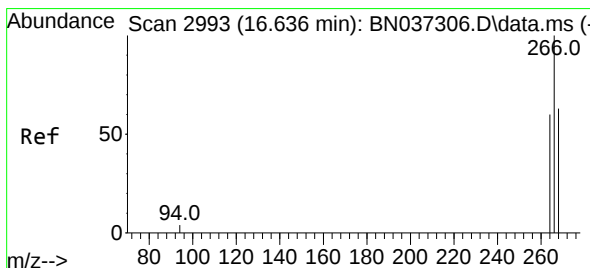
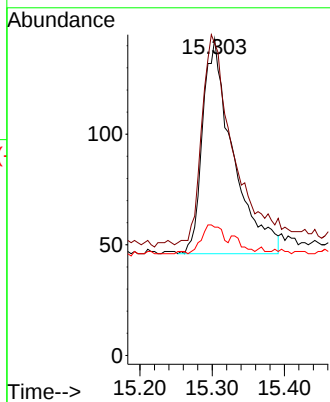
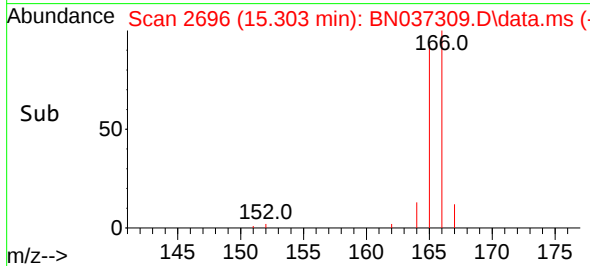
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



Tgt Ion:166 Resp: 288
Ion Ratio Lower Upper
166 100
165 98.6 79.8 119.6
167 40.6 13.0 19.6

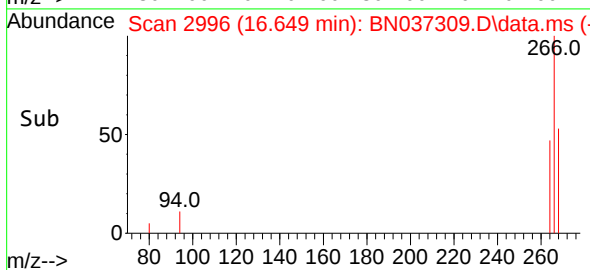
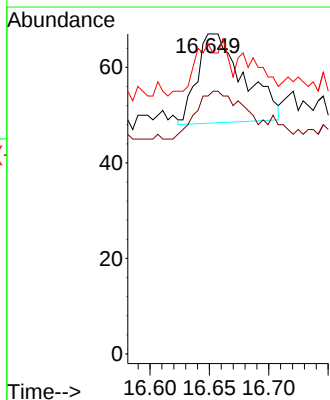
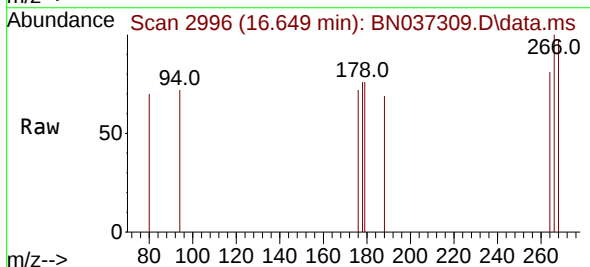
Manual Integrations
APPROVED

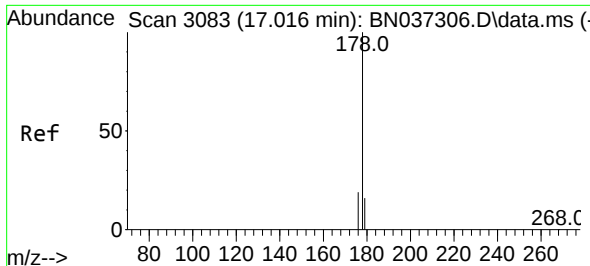
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#14
Pentachlorophenol
Concen: 0.063 ng/ul
RT: 16.649 min Scan# 2996
Delta R.T. 0.013 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

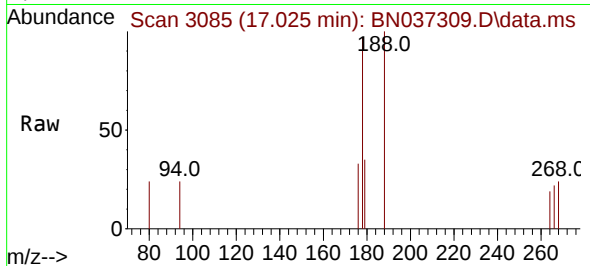
Tgt Ion:266 Resp: 51
Ion Ratio Lower Upper
266 100
264 64.7 50.5 75.7
268 45.1 51.9 77.9#





#15
Phenanthrene
Concen: 0.069 ng/u1
RT: 17.025 min Scan# 3083
Delta R.T. 0.009 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

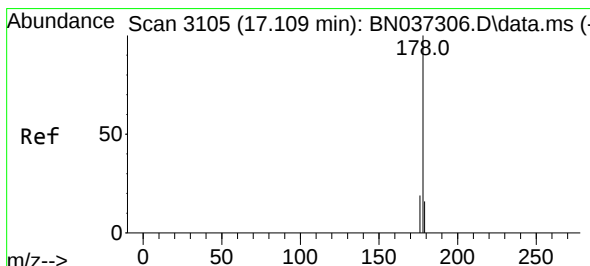
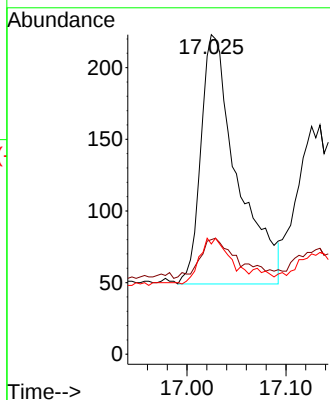
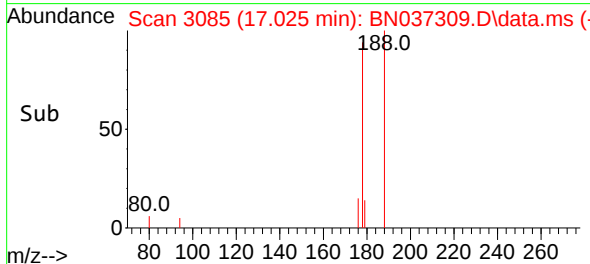
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



Tgt Ion:178 Resp: 442
Ion Ratio Lower Upper
178 100
179 35.9 13.7 20.5#
176 34.5 16.6 24.8#

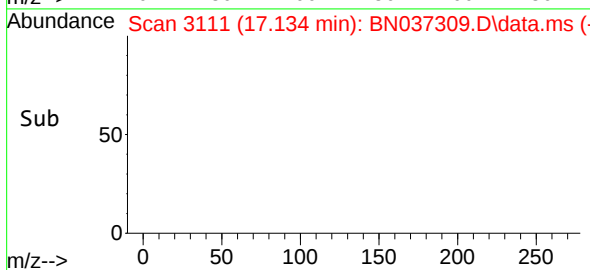
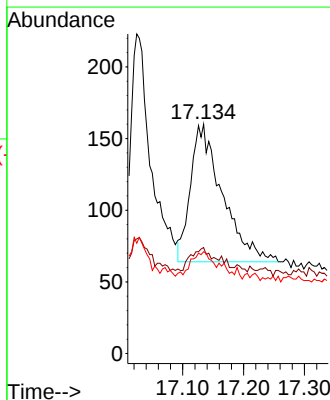
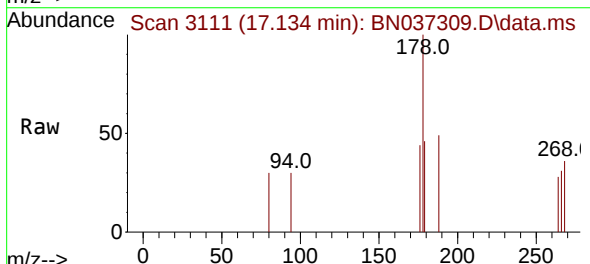
Manual Integrations
APPROVED

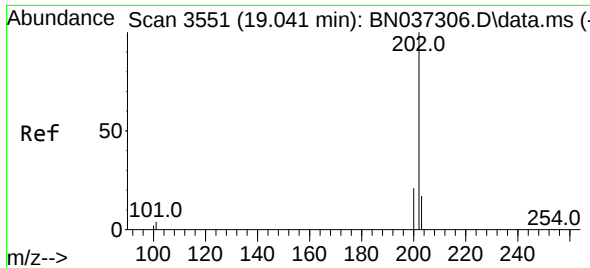
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#16
Anthracene
Concen: 0.060 ng/u1
RT: 17.134 min Scan# 3111
Delta R.T. 0.021 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

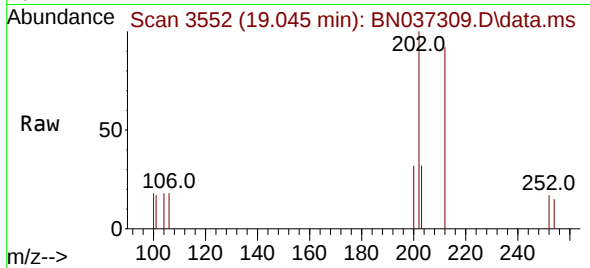
Tgt Ion:178 Resp: 350
Ion Ratio Lower Upper
178 100
179 46.3 13.8 20.8#
176 44.4 16.8 25.2#





#19
Fluoranthene
Concen: 0.074 ng/ul
RT: 19.045 min Scan# 3551
Delta R.T. 0.005 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

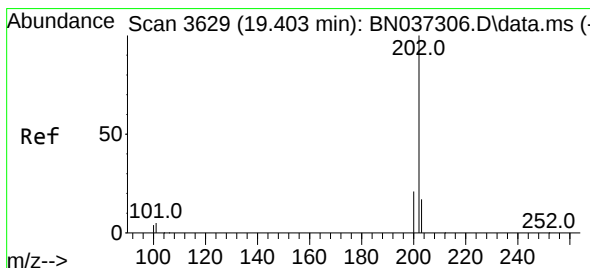
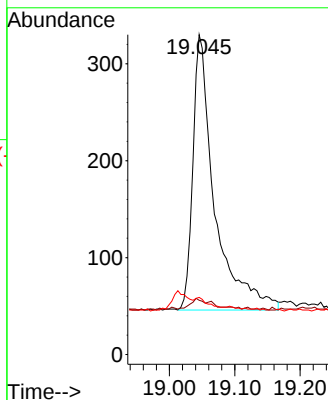
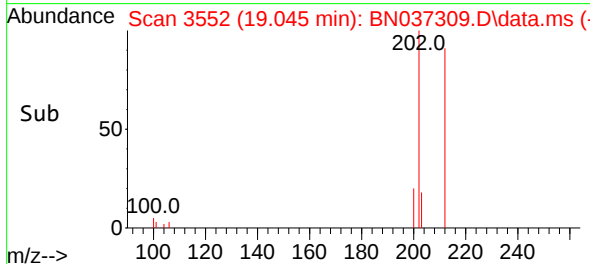
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



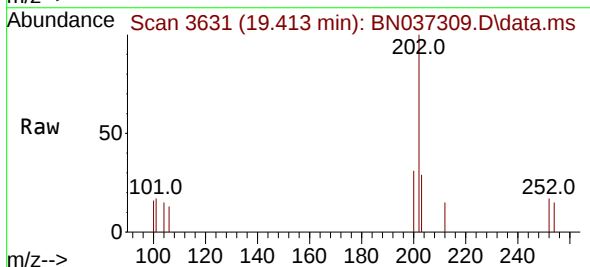
Tgt Ion:202 Resp: 654
Ion Ratio Lower Upper
202 100
101 17.0 4.3 6.5#
100 17.9 3.6 5.4#

Manual Integrations
APPROVED

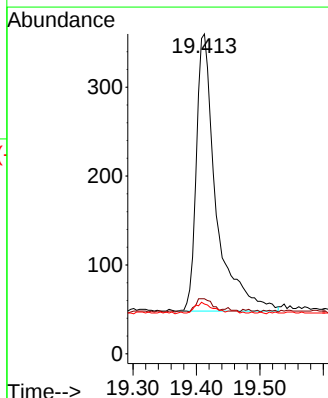
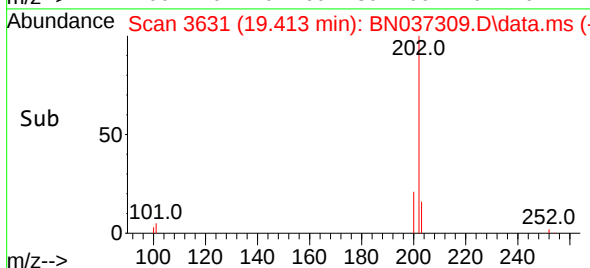
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025

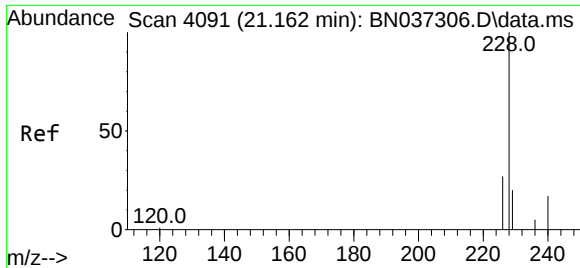


#20
Pyrene
Concen: 0.075 ng/ul
RT: 19.413 min Scan# 3631
Delta R.T. 0.009 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20



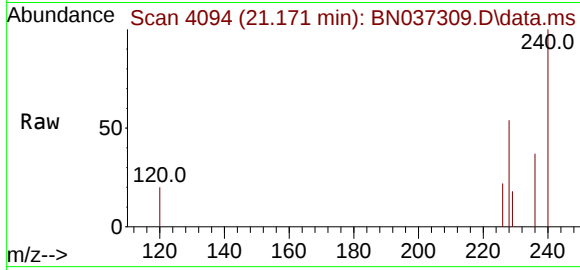
Tgt Ion:202 Resp: 673
Ion Ratio Lower Upper
202 100
101 17.2 4.8 7.2#
100 15.6 4.2 6.2#





#21
Benzo(a)anthracene
Concen: 0.057 ng/u1
RT: 21.171 min Scan# 4094
Delta R.T. 0.012 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

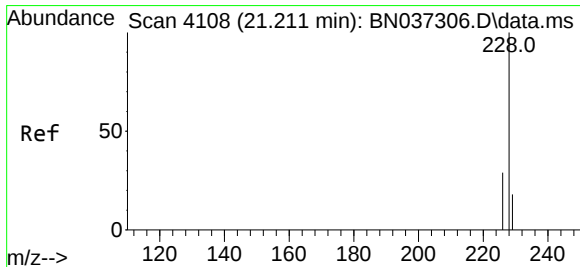
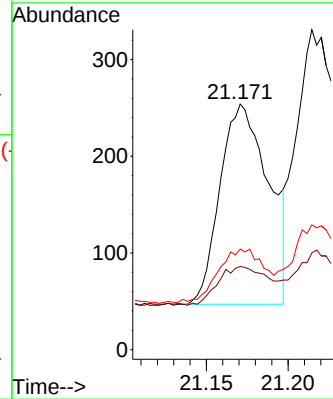
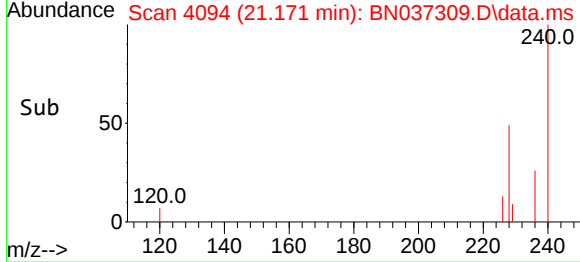
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



Tgt Ion:228 Resp: 427
Ion Ratio Lower Upper
228 100
229 33.9 16.1 24.1#
226 40.9 22.2 33.4#

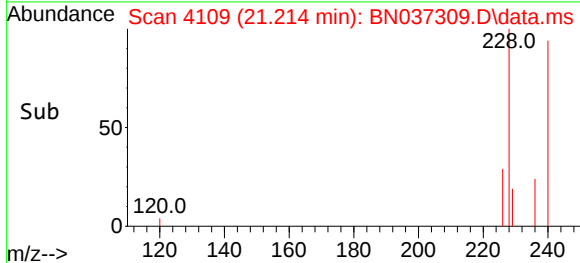
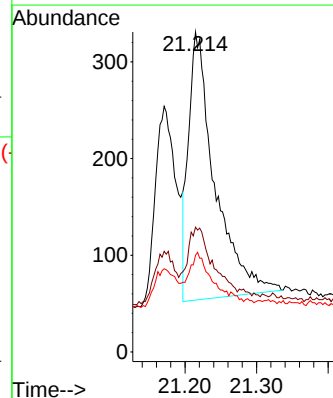
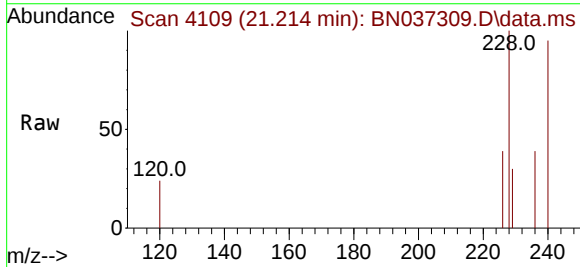
Manual Integrations
APPROVED

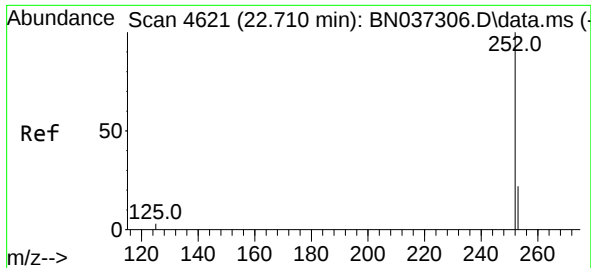
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#22
Chrysene
Concen: 0.074 ng/u1
RT: 21.214 min Scan# 4109
Delta R.T. 0.003 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

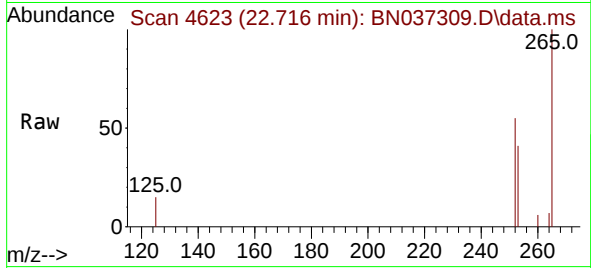
Tgt Ion:228 Resp: 707
Ion Ratio Lower Upper
228 100
226 39.0 24.6 36.8#
229 30.2 16.0 24.0#





#24
Benzo(b)fluoranthene
Concen: 0.062 ng/u1
RT: 22.716 min Scan# 4623
Delta R.T. 0.009 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

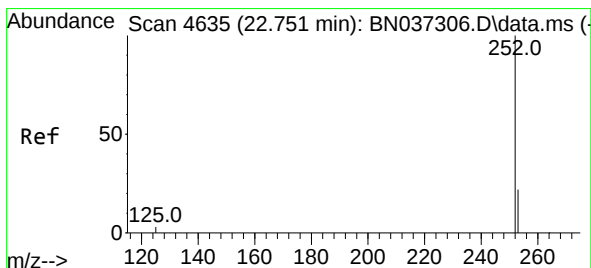
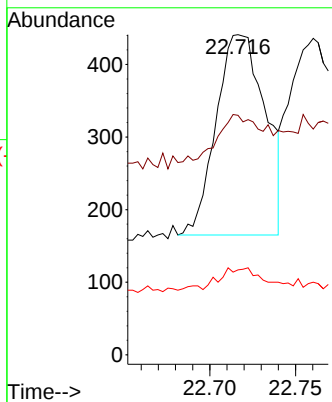
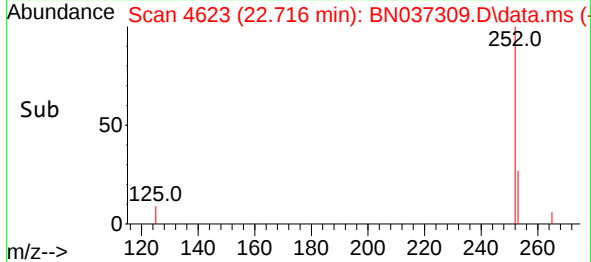
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



Tgt Ion:252 Resp: 552
Ion Ratio Lower Upper
252 100
253 74.8 0.0 60.2
125 26.5 0.0 16.2

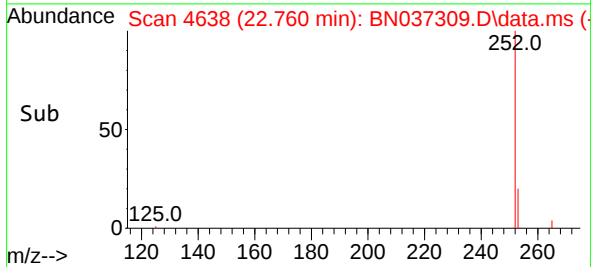
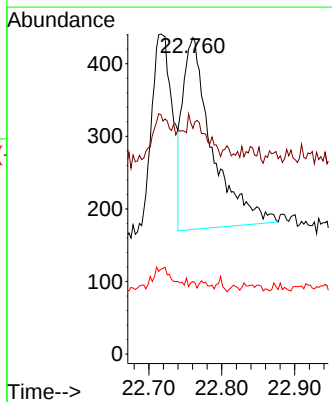
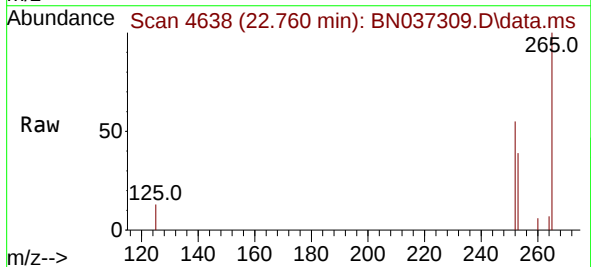
Manual Integrations
APPROVED

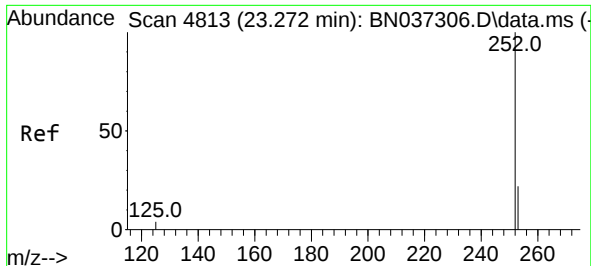
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025



#25
Benzo(k)fluoranthene
Concen: 0.070 ng/u1
RT: 22.760 min Scan# 4638
Delta R.T. 0.009 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

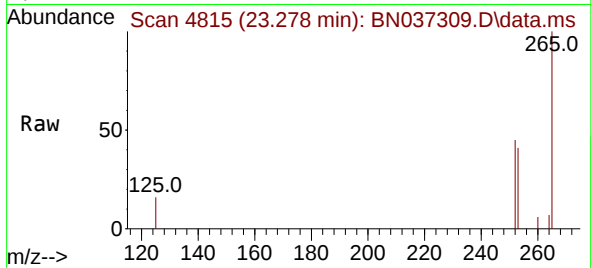
Tgt Ion:252 Resp: 741
Ion Ratio Lower Upper
252 100
253 71.3 24.0 36.0#
125 22.9 5.9 8.9#





#26
Benzo(a)pyrene
Concen: 0.072 ng/ul
RT: 23.278 min Scan# 4813
Delta R.T. 0.012 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

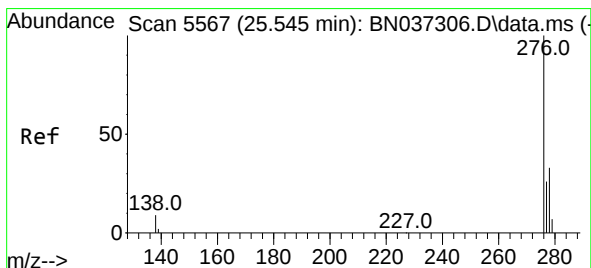
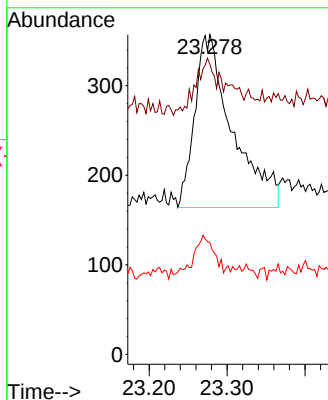
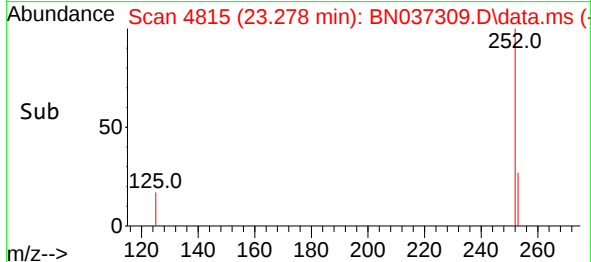
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



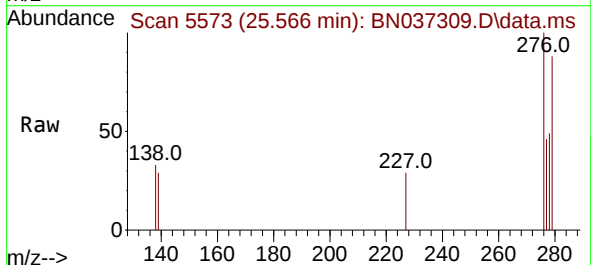
Tgt Ion:252 Resp: 64
Ion Ratio Lower Upper
252 100
253 90.8 27.4 41.2
125 35.0 8.6 13.0

Manual Integrations
APPROVED

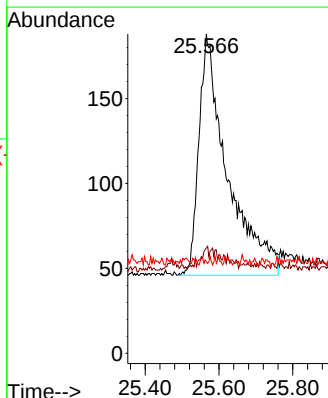
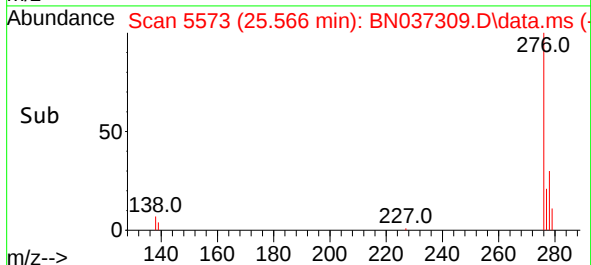
Reviewed By :Rahul Chavli 06/18/2025
Supervised By :Jagrut Upadhyay 06/18/2025

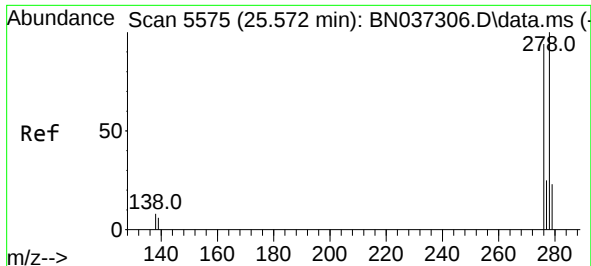


#27
Indeno(1,2,3-cd)pyrene
Concen: 0.069 ng/ul
RT: 25.566 min Scan# 5573
Delta R.T. 0.020 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20



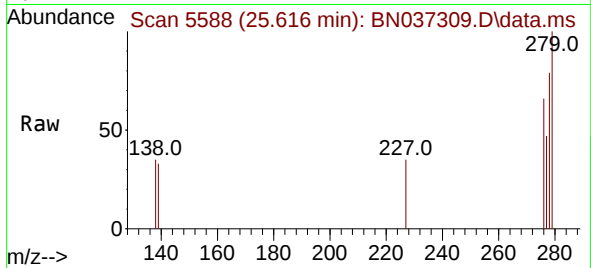
Tgt Ion:276 Resp: 760
Ion Ratio Lower Upper
276 100
138 4.1 7.5 11.3#
227 0.3 0.1 0.1#





#28
Dibenzo(a,h)anthracene
Concen: 0.062 ng/ul
RT: 25.616 min Scan# 5588
Delta R.T. 0.050 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

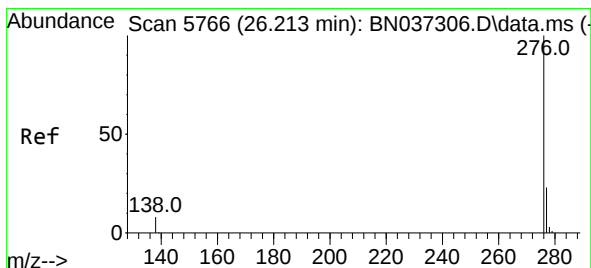
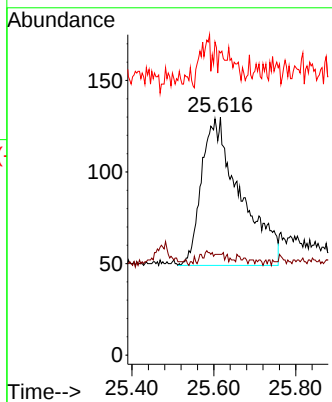
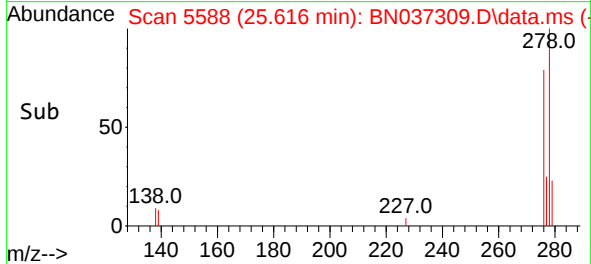
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2025-04



Tgt Ion:278 Resp: 531
Ion Ratio Lower Upper
278 100
139 42.3 8.6 12.8#
279 126.9 30.6 46.0#

Manual Integrations
APPROVED

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



#29
Benzo(g,h,i)perylene
Concen: 0.074 ng/ul
RT: 26.227 min Scan# 5770
Delta R.T. 0.013 min
Lab File: BN037309.D
Acq: 18 Jun 2025 11:20

Tgt Ion:276 Resp: 701
Ion Ratio Lower Upper
276 100
138 30.2 9.4 14.2#
277 47.2 21.6 32.4#

