

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM031224\
 Data File : BM044587.D
 Acq On : 12 Mar 2024 11:50
 Operator : MA/JU
 Sample : P1601-04
 Misc : SFAM-SIM-MDL-SOIL-02
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2024-02

Quant Time: Mar 12 12:27:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM031124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 11 14:02:17 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/13/2024
 Supervised By :mohammad ahmed 03/14/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	5659	0.400	ng/ul	0.00
4) Naphthalene-d8	10.512	136	18772	0.400	ng/ul	0.00
9) Acenaphthene-d10	14.367	164	10857	0.400	ng/ul	0.00
13) Phenanthrene-d10	17.128	188	24364	0.400	ng/ul	0.00
17) Chrysene-d12	21.324	240	15042	0.400	ng/ul	0.00
23) Perylene-d12	23.581	264	14968	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.281	96	3052	0.411	ng/ul	0.00
6) 2-Methylnaphthalene-d10	12.112	152	10467	0.388	ng/ul	0.01
18) Fluoranthene-d10	19.159	212	22292	0.422	ng/ul	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.314	88	680m	0.090	ng/ul	
5) Naphthalene	10.562	128	3611	0.068	ng/ul#	90
7) 2-Methylnaphthalene	12.189	142	2274	0.068	ng/ul	98
8) 1-Methylnaphthalene	12.404	142	2355	0.070	ng/ul	99
10) Acenaphthylene	14.089	152	3734	0.068	ng/ul#	94
11) Acenaphthene	14.432	153	2749	0.069	ng/ul	99
12) Fluorene	15.436	166	3100	0.068	ng/ul	98
14) Pentachlorophenol	16.790	266	374	0.064	ng/ul	97
15) Phenanthrene	17.170	178	4888	0.067	ng/ul	97
16) Anthracene	17.275	178	4649m	0.068	ng/ul	
19) Fluoranthene	19.191	202	5254	0.071	ng/ul#	94
20) Pyrene	19.554	202	5351	0.071	ng/ul	95
21) Benzo(a)anthracene	21.318	228	3383	0.059	ng/ul	97
22) Chrysene	21.359	228	4739	0.074	ng/ul	99
24) Benzo(b)fluoranthene	22.905	252	3736	0.065	ng/ul#	46
25) Benzo(k)fluoranthene	22.952	252	4317	0.070	ng/ul#	49
26) Benzo(a)pyrene	23.499	252	3507	0.068	ng/ul#	1
27) Indeno(1,2,3-cd)pyrene	25.907	276	3987m	0.067	ng/ul	
28) Dibenzo(a,h)anthracene	25.953	278	2912m	0.063	ng/ul	
29) Benzo(g,h,i)perylene	26.581	276	3441	0.066	ng/ul#	82

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

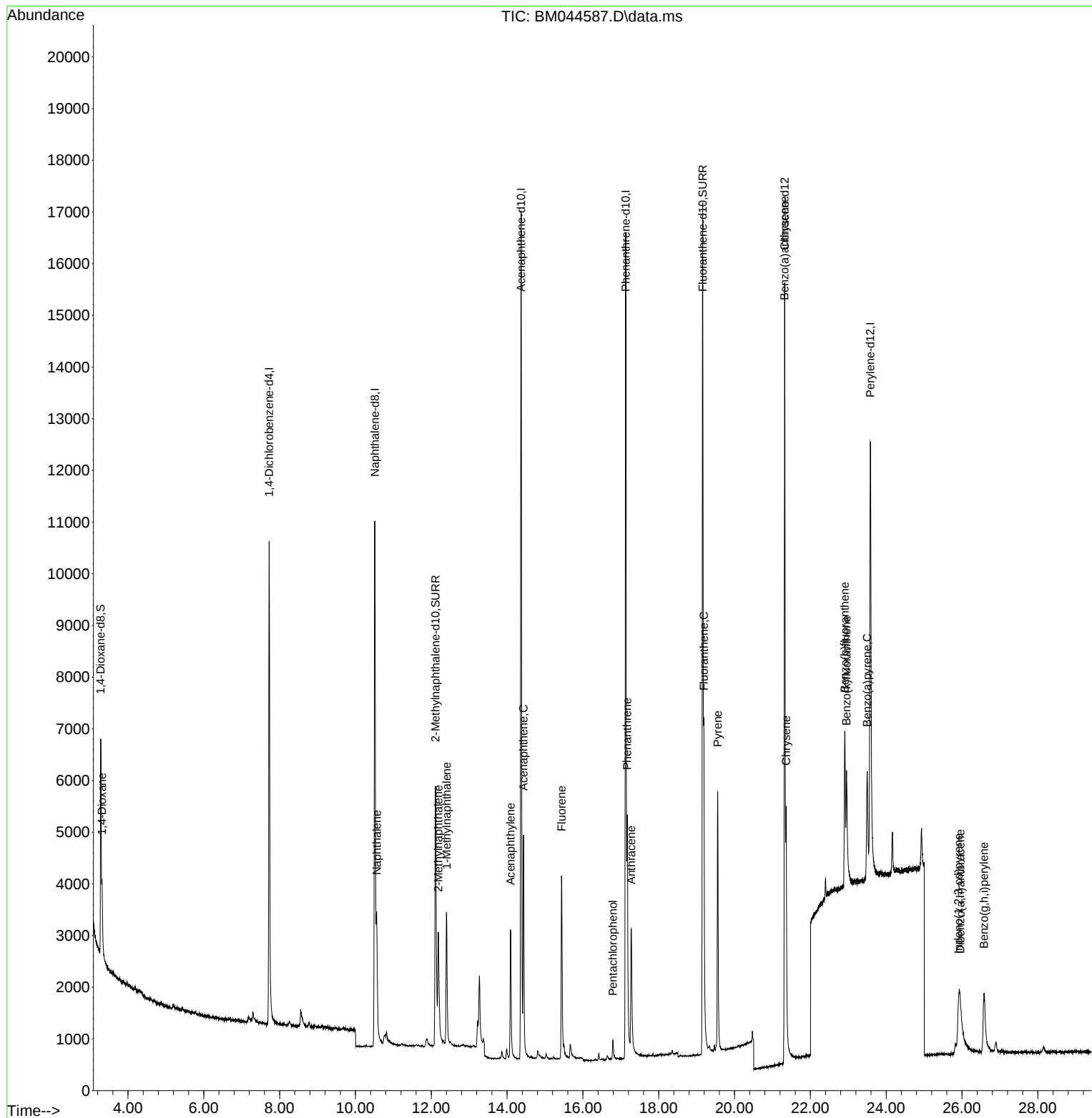
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM031224\
Data File : BM044587.D
Acq On : 12 Mar 2024 11:50
Operator : MA/JU
Sample : P1601-04
Misc : SFAM-SIM-MDL-SOIL-02
ALS Vial : 5 Sample Multiplier: 1

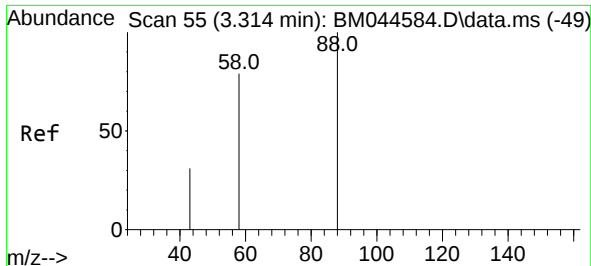
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02

Quant Time: Mar 12 12:27:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM031124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 11 14:02:17 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

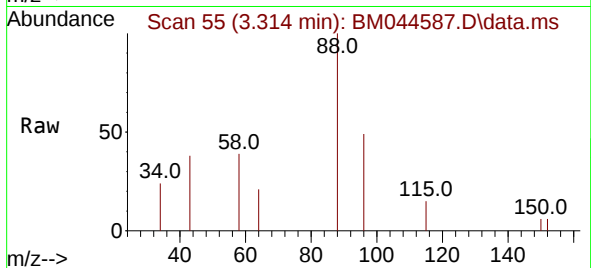
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024





#2
1,4-Dioxane
Concen: 0.090 ng/ul m
RT: 3.314 min Scan# 51
Delta R.T. -0.000 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

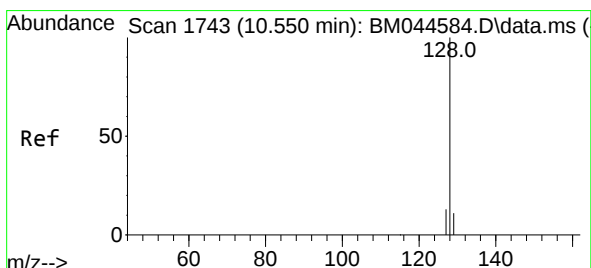
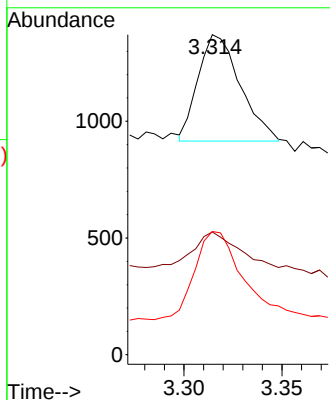
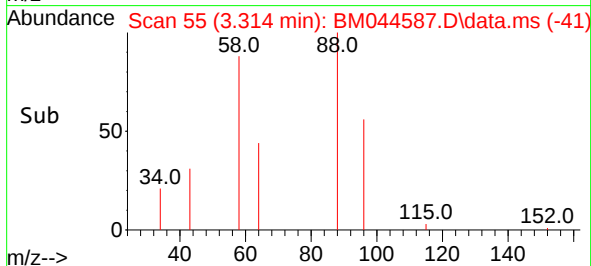
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion: 88 Resp: 680
Ion Ratio Lower Upper
88 100
43 38.4 21.4 32.0#
58 38.5 35.6 53.4

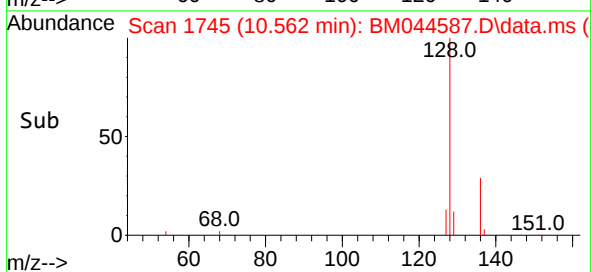
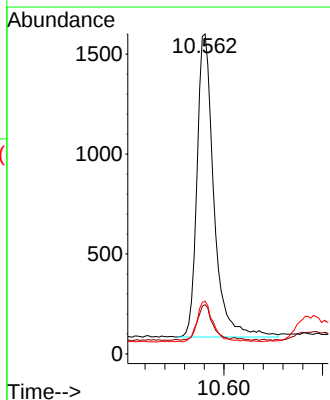
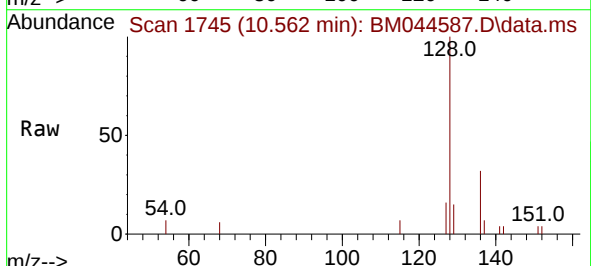
Manual Integrations
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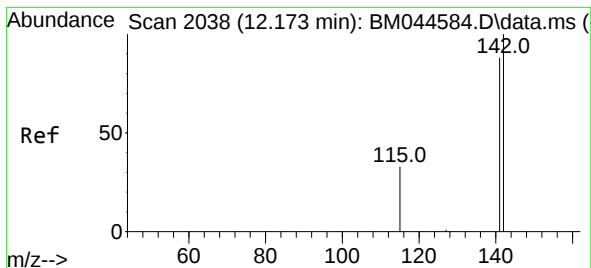
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#5
Naphthalene
Concen: 0.068 ng/ul
RT: 10.562 min Scan# 1745
Delta R.T. 0.005 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

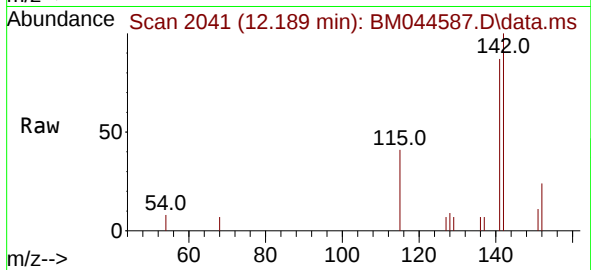
Tgt Ion:128 Resp: 3611
Ion Ratio Lower Upper
128 100
129 15.4 9.2 13.8#
127 16.5 10.3 15.5#





#7
2-Methylnaphthalene
Concen: 0.068 ng/ul
RT: 12.189 min Scan# 2038
Delta R.T. 0.011 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

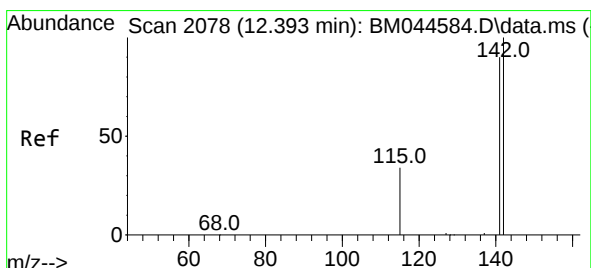
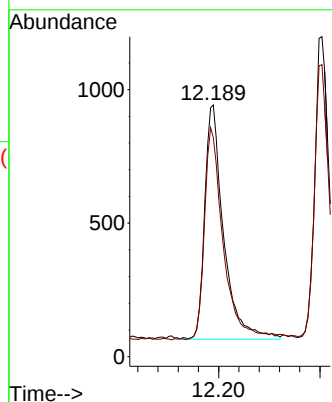
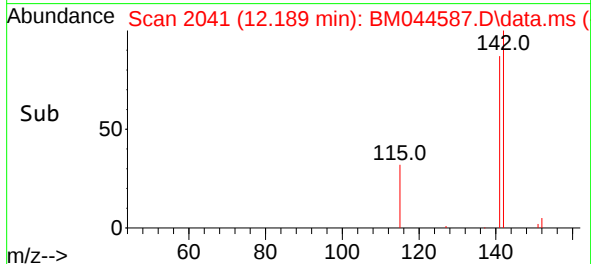
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



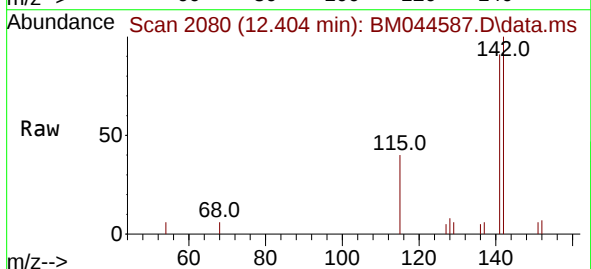
Tgt Ion:142 Resp: 2274
Ion Ratio Lower Upper
142 100
141 91.4 71.8 107.6

Manual Integrations
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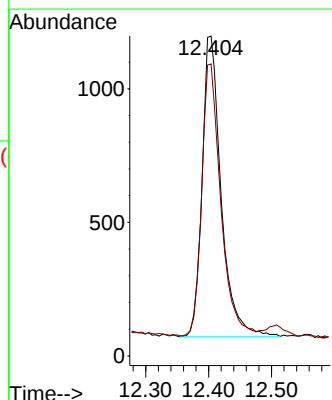
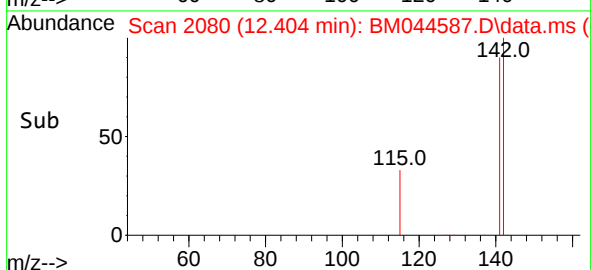
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024

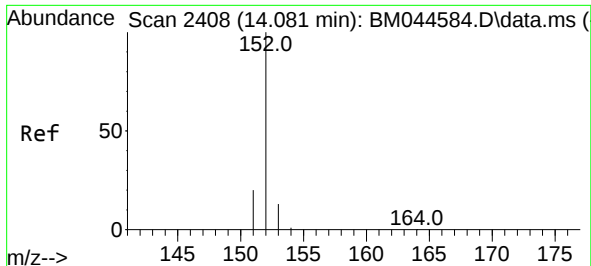


#8
1-Methylnaphthalene
Concen: 0.070 ng/ul
RT: 12.404 min Scan# 2080
Delta R.T. 0.011 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50



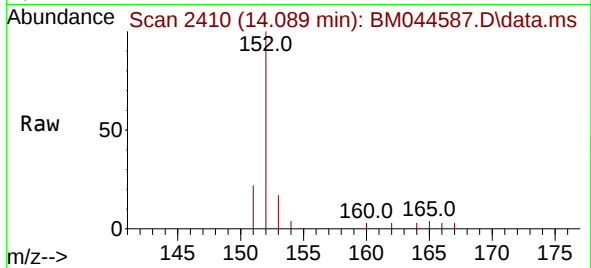
Tgt Ion:142 Resp: 2355
Ion Ratio Lower Upper
142 100
141 90.6 73.1 109.7





#10
Acenaphthylene
Concen: 0.068 ng/u1
RT: 14.089 min Scan# 2408
Delta R.T. 0.004 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

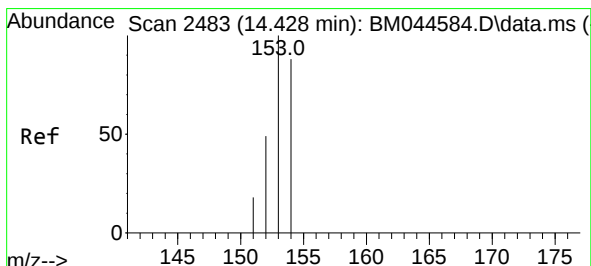
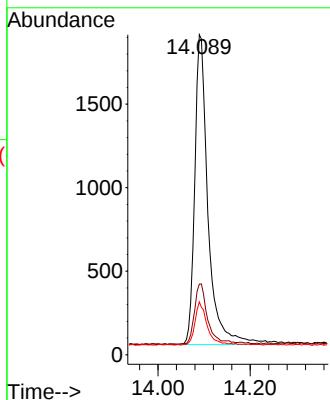
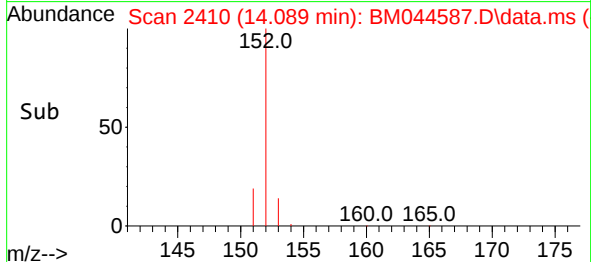
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion:152 Resp: 3734
Ion Ratio Lower Upper
152 100
151 22.1 15.8 23.8
153 16.5 10.8 16.2

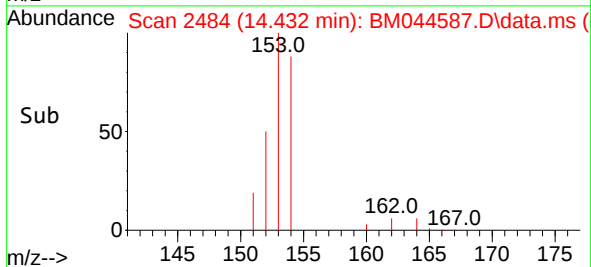
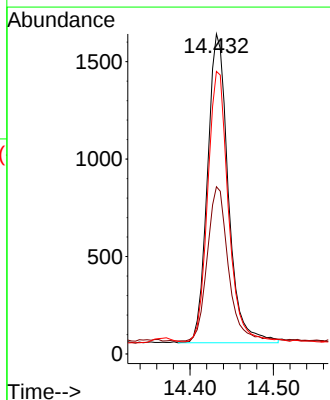
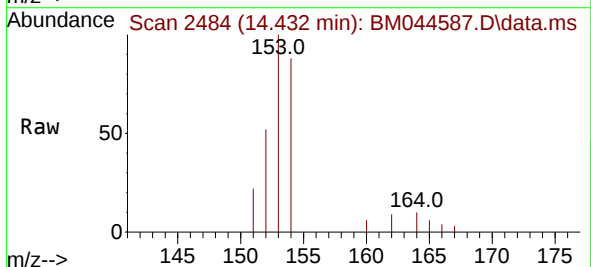
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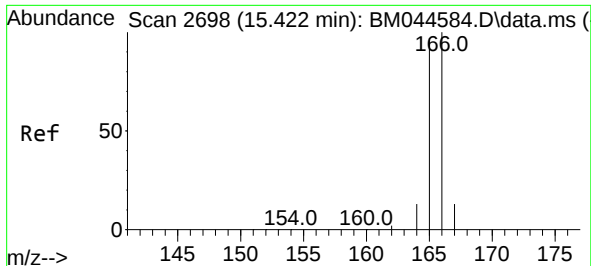
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#11
Acenaphthene
Concen: 0.069 ng/u1
RT: 14.432 min Scan# 2484
Delta R.T. 0.004 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

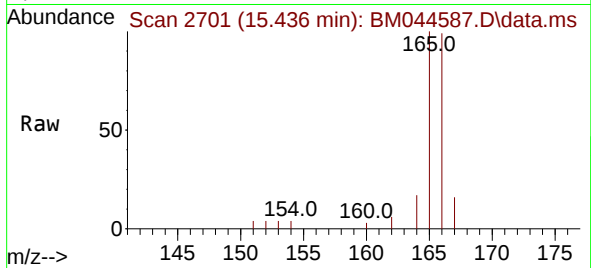
Tgt Ion:153 Resp: 2749
Ion Ratio Lower Upper
153 100
152 52.3 40.7 61.1
154 88.3 70.6 106.0





#12
Fluorene
Concen: 0.068 ng/ul
RT: 15.436 min Scan# 2100
Delta R.T. 0.014 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

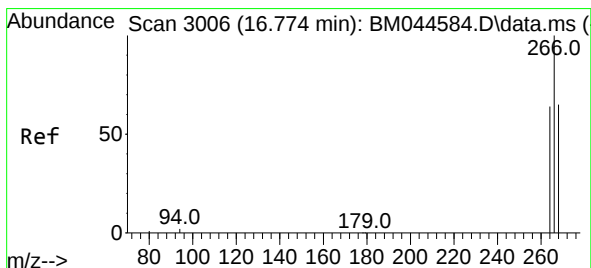
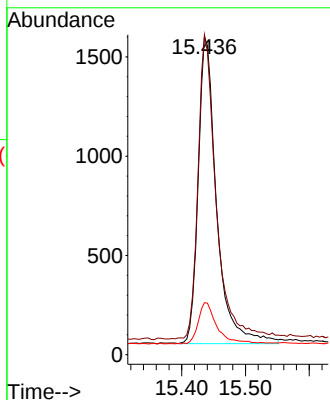
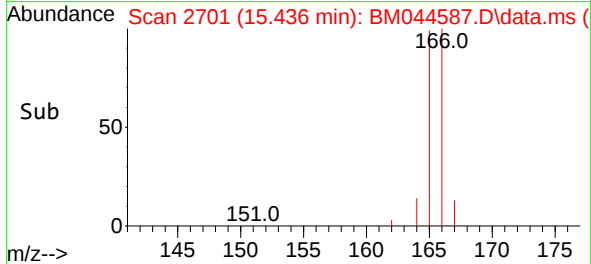
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion:166 Resp: 3100
Ion Ratio Lower Upper
166 100
165 100.6 79.4 119.0
167 16.4 11.0 16.6

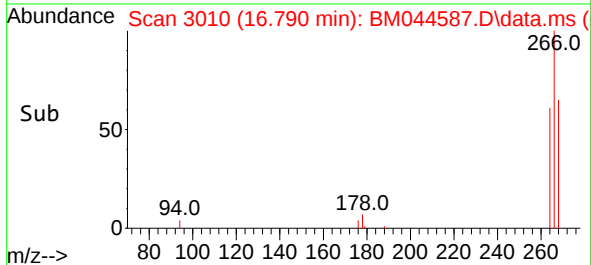
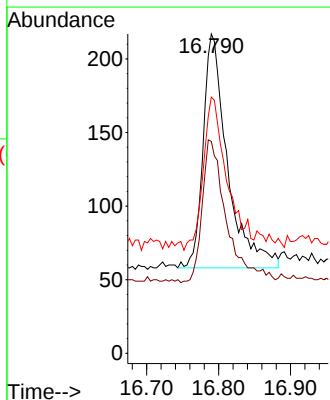
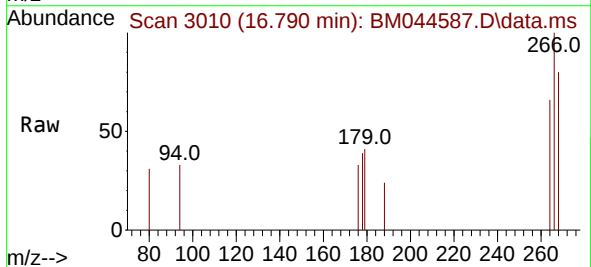
Manual Integrations
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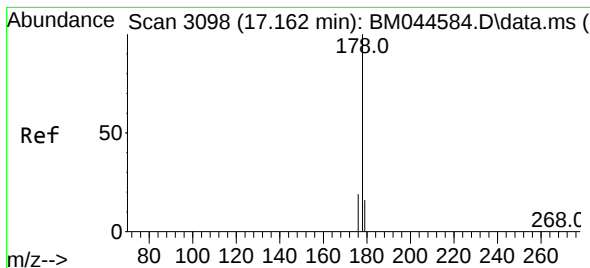
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#14
Pentachlorophenol
Concen: 0.064 ng/ul
RT: 16.790 min Scan# 3010
Delta R.T. 0.013 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

Tgt Ion:266 Resp: 374
Ion Ratio Lower Upper
266 100
264 61.2 49.5 74.3
268 63.4 48.1 72.1





#15

Phenanthrene

Concen: 0.067 ng/ul

RT: 17.170 min Scan# 3100

Delta R.T. 0.008 min

Lab File: BM044587.D

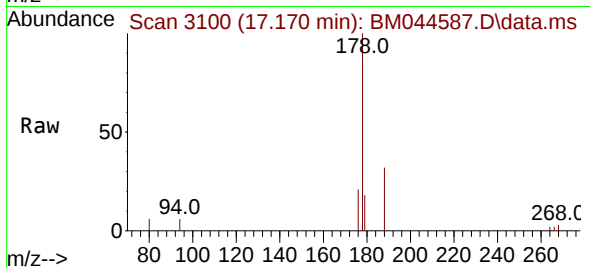
Acq: 12 Mar 2024 11:50

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2024-02



Tgt Ion:178 Resp: 488

Ion Ratio Lower Upper

178 100

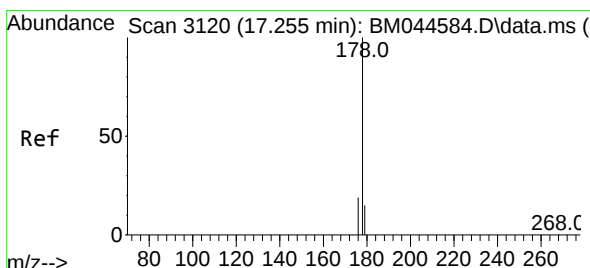
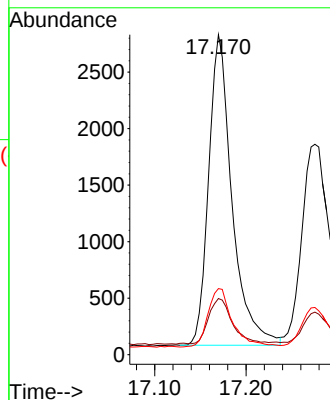
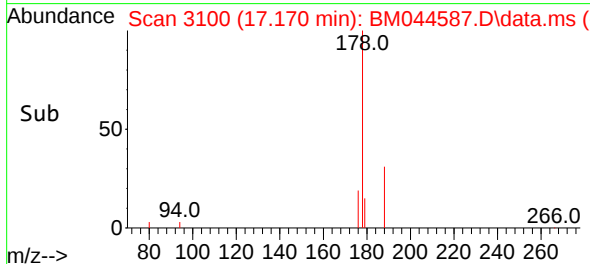
179 17.6 12.5 18.7

176 20.7 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#16

Anthracene

Concen: 0.068 ng/ul m

RT: 17.275 min Scan# 3125

Delta R.T. 0.017 min

Lab File: BM044587.D

Acq: 12 Mar 2024 11:50

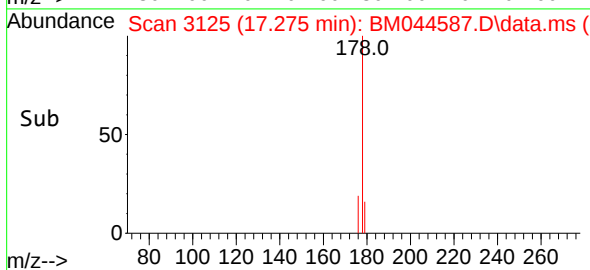
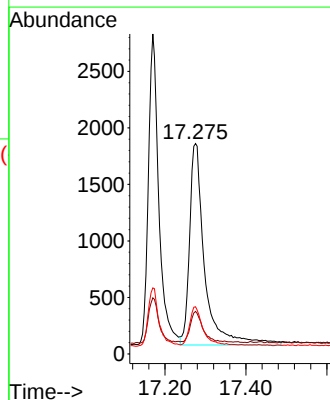
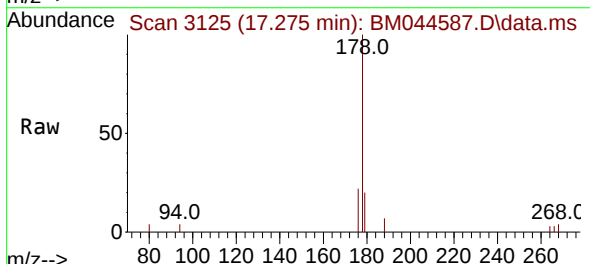
Tgt Ion:178 Resp: 4649

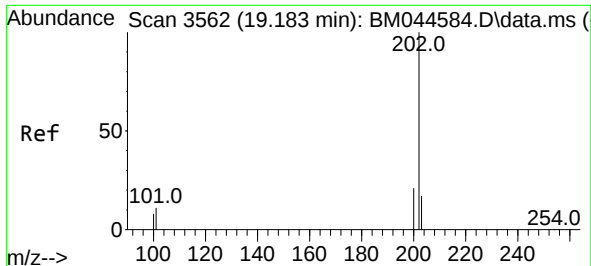
Ion Ratio Lower Upper

178 100

179 20.2 12.8 19.2#

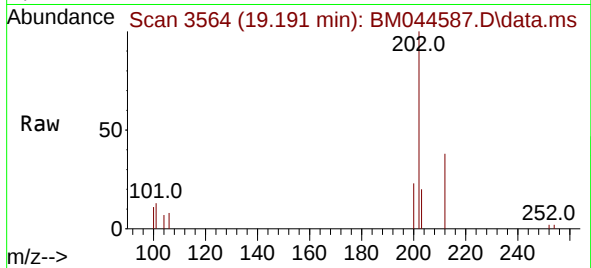
176 22.5 15.2 22.8





#19
Fluoranthene
Concen: 0.071 ng/ul
RT: 19.191 min Scan# 3564
Delta R.T. 0.004 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

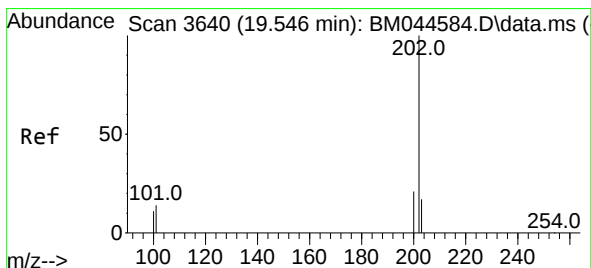
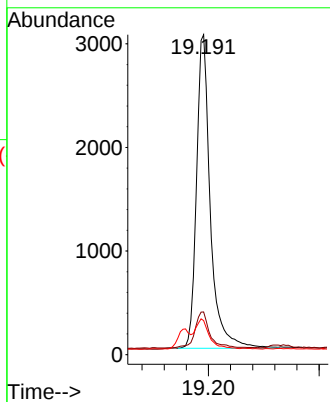
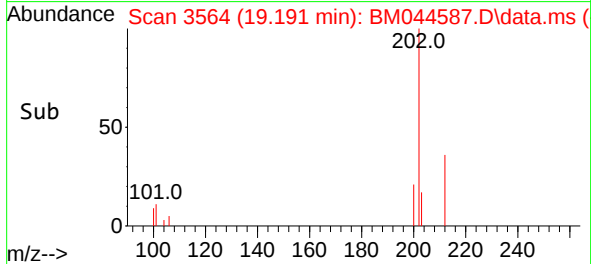
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion:202 Resp: 5254
Ion Ratio Lower Upper
202 100
101 13.3 9.0 13.4
100 10.6 6.8 10.2

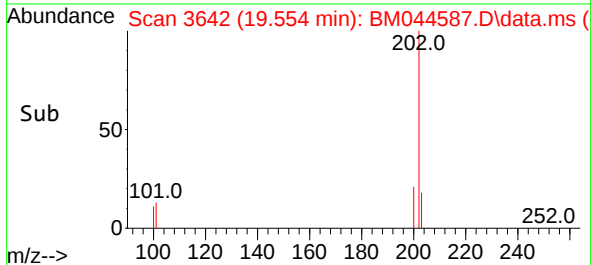
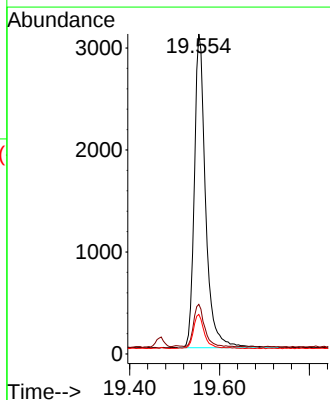
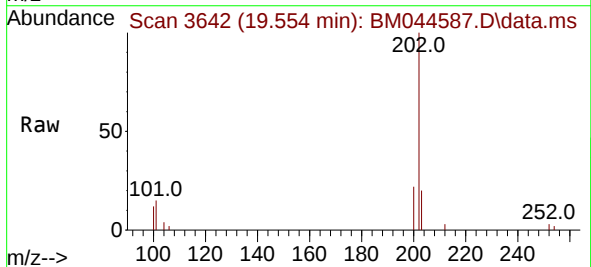
Manual Integrations
APPROVED

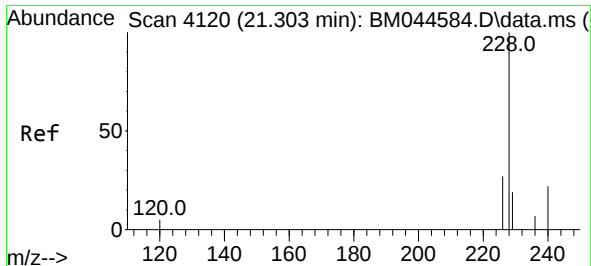
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#20
Pyrene
Concen: 0.071 ng/ul
RT: 19.554 min Scan# 3642
Delta R.T. 0.004 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

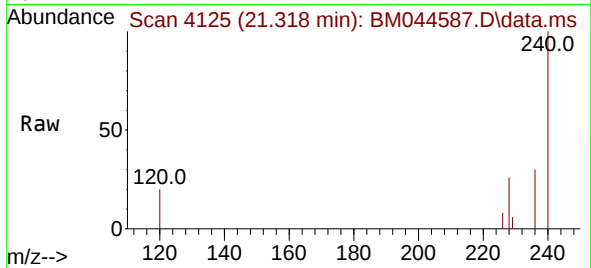
Tgt Ion:202 Resp: 5351
Ion Ratio Lower Upper
202 100
101 15.5 10.8 16.2
100 12.3 8.4 12.6





#21
Benzo(a)anthracene
Concen: 0.059 ng/u1
RT: 21.318 min Scan# 4125
Delta R.T. 0.017 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

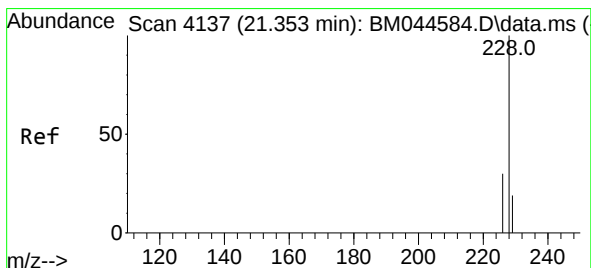
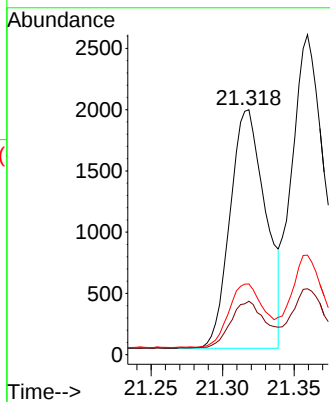
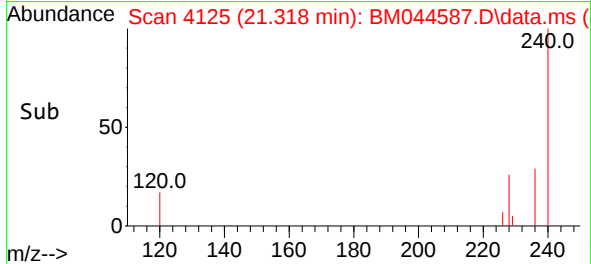
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion:228 Resp: 338
Ion Ratio Lower Upper
228 100
229 21.8 15.9 23.9
226 28.9 22.2 33.2

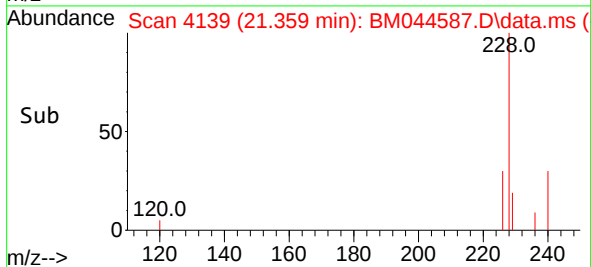
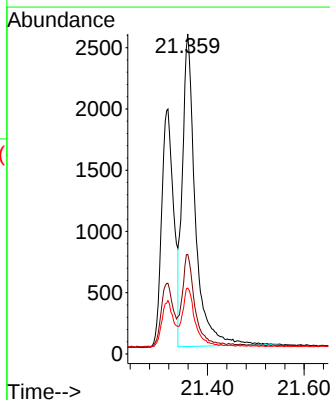
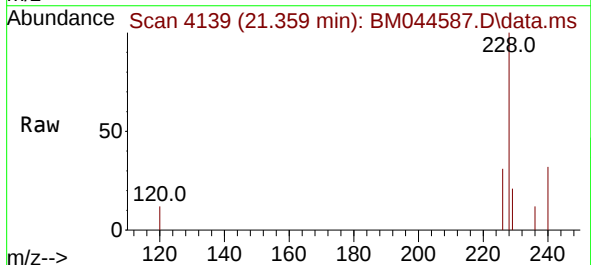
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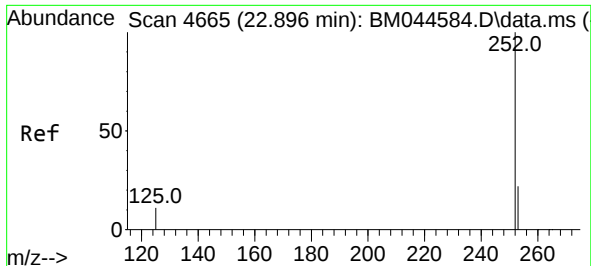
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#22
Chrysene
Concen: 0.074 ng/u1
RT: 21.359 min Scan# 4139
Delta R.T. 0.008 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

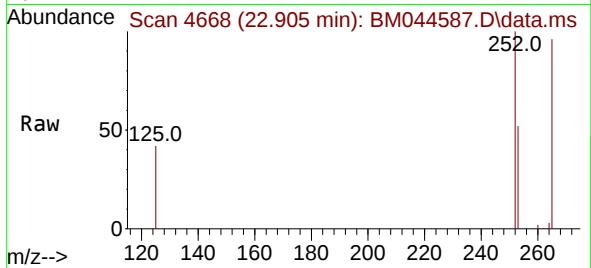
Tgt Ion:228 Resp: 4739
Ion Ratio Lower Upper
228 100
226 31.1 24.6 37.0
229 20.6 15.7 23.5





#24
Benzo(b)fluoranthene
Concen: 0.065 ng/ul
RT: 22.905 min Scan# 4668
Delta R.T. 0.014 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

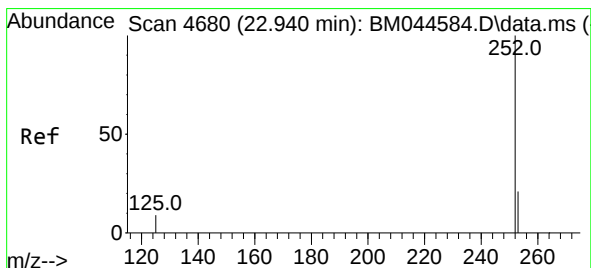
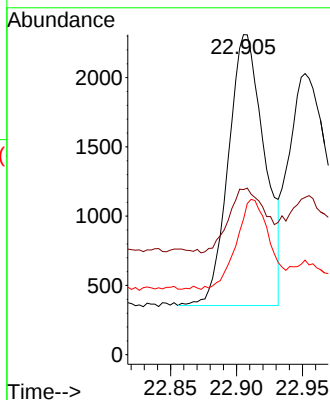
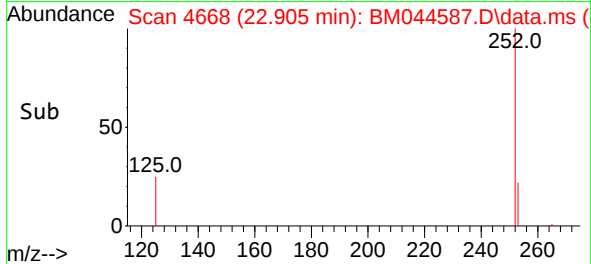
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion:252 Resp: 3730
Ion Ratio Lower Upper
252 100
253 51.6 0.0 54.6
125 42.3 0.0 28.6

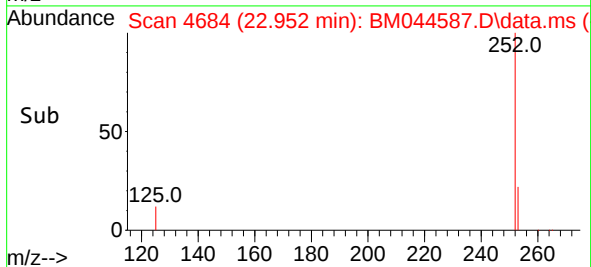
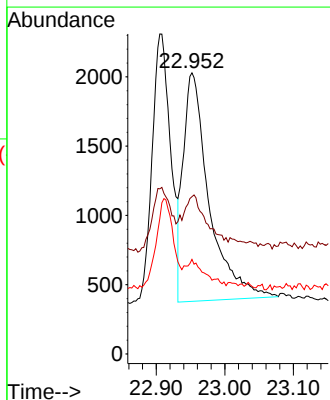
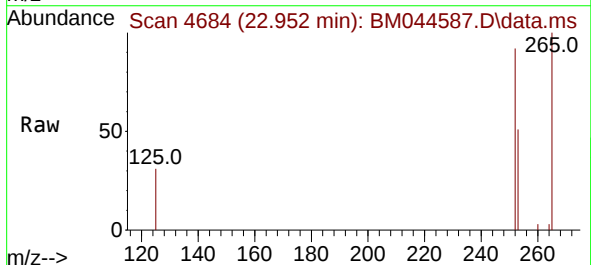
Manual Integrations
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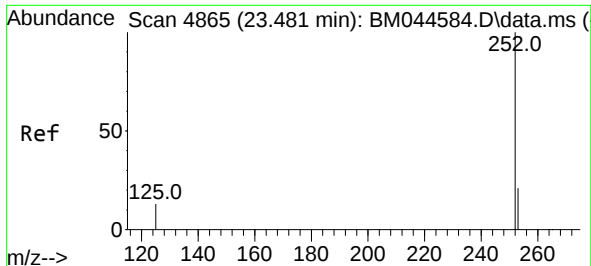
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#25
Benzo(k)fluoranthene
Concen: 0.070 ng/ul
RT: 22.952 min Scan# 4684
Delta R.T. 0.011 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

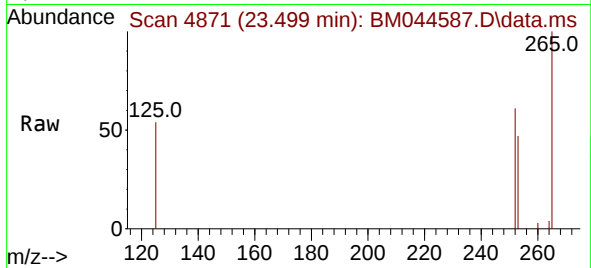
Tgt Ion:252 Resp: 4317
Ion Ratio Lower Upper
252 100
253 56.0 22.6 33.8#
125 33.7 11.4 17.2#





#26
Benzo(a)pyrene
Concen: 0.068 ng/ul
RT: 23.499 min Scan# 4871
Delta R.T. 0.020 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

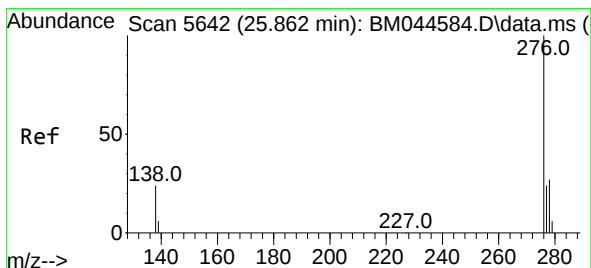
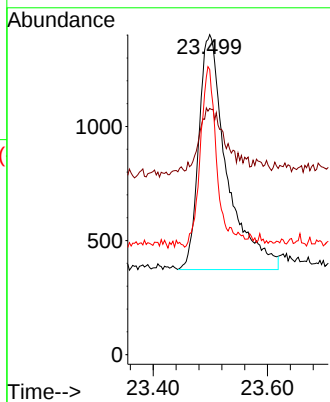
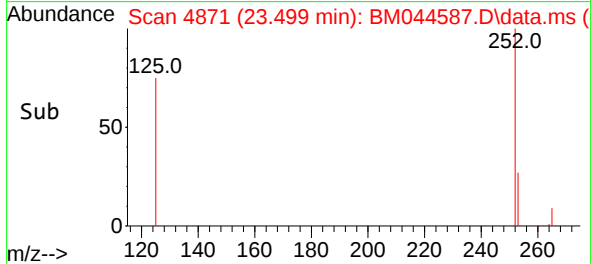
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion:252 Resp: 350
Ion Ratio Lower Upper
252 100
253 77.0 25.2 37.8
125 89.1 14.2 21.4

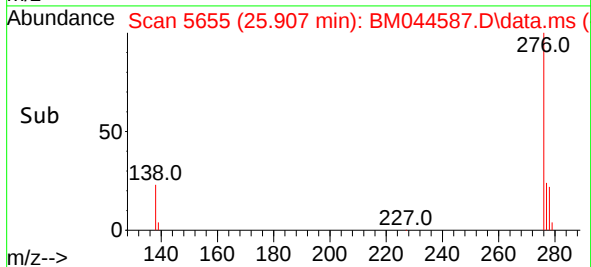
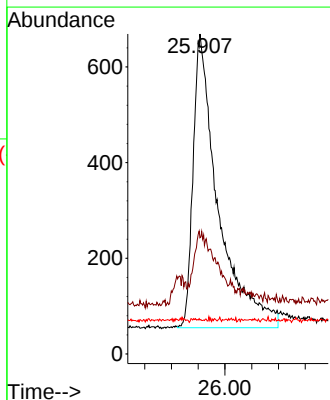
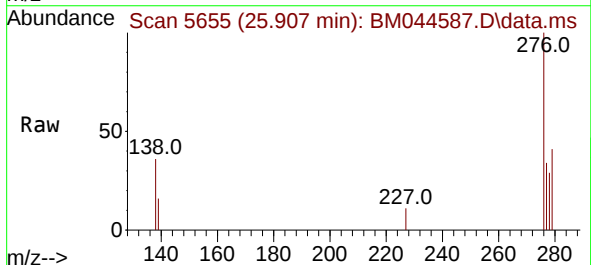
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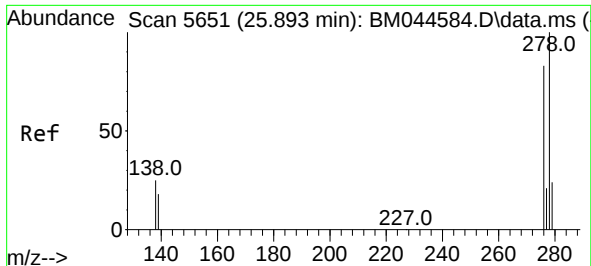
Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.067 ng/ul m
RT: 25.907 min Scan# 5655
Delta R.T. 0.043 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

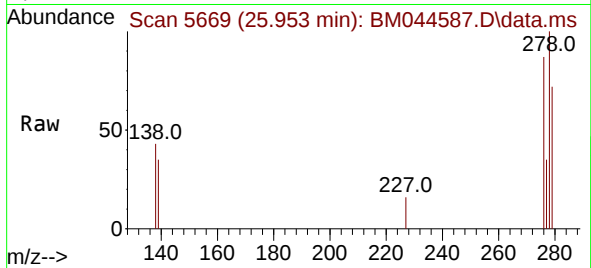
Tgt Ion:276 Resp: 3987
Ion Ratio Lower Upper
276 100
138 19.1 21.9 32.9
227 0.0 0.0 0.0





#28
Dibenzo(a,h)anthracene
Concen: 0.063 ng/ul m
RT: 25.953 min Scan# 5669
Delta R.T. 0.063 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

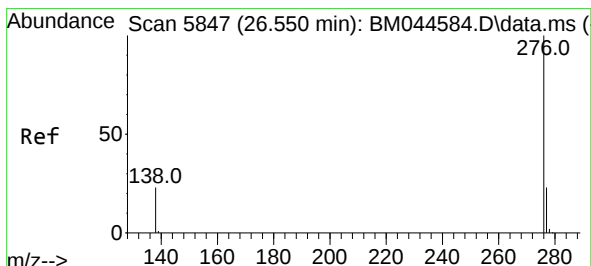
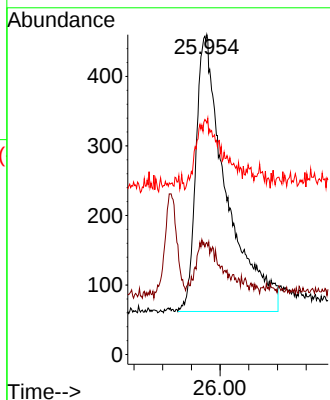
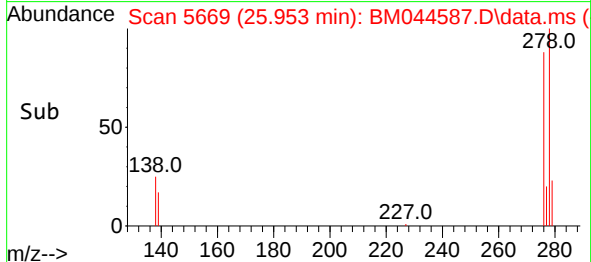
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2024-02



Tgt Ion: 278 Resp: 291
Ion Ratio Lower Upper
278 100
139 35.0 15.9 23.9
279 72.4 24.1 36.1

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Reviewed By :Jagrut Upadhyay 03/13/2024
Supervised By :mohammad ahmed 03/14/2024



#29
Benzo(g,h,i)perylene
Concen: 0.066 ng/ul
RT: 26.581 min Scan# 5856
Delta R.T. 0.026 min
Lab File: BM044587.D
Acq: 12 Mar 2024 11:50

Tgt Ion: 276 Resp: 3441
Ion Ratio Lower Upper
276 100
138 35.6 20.1 30.1#
277 32.3 19.6 29.4#

