

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101723\
 Data File : BN028308.D
 Acq On : 17 Oct 2023 14:48
 Operator : MA/JU
 Sample : 02215-03
 Misc : SFDAM-SIM-MDL-SOIL-01
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-SOIL-QT2-2023-03

Quant Time: Oct 17 15:18:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN100323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 16 16:16:04 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/18/2023
 Supervised By :mohammad ahmed 10/19/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.895	152	2498	0.400	ng/ul	0.00
4) Naphthalene-d8	10.729	136	8420	0.400	ng/ul #	0.02
9) Acenaphthene-d10	14.546	164	4937	0.400	ng/ul	0.00
13) Phenanthrene-d10	17.312	188	10426	0.400	ng/ul	0.00
17) Chrysene-d12	21.501	240	9796	0.400	ng/ul	0.00
23) Perylene-d12	23.954	264	10270	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.258	96	1327	0.423	ng/ul	0.00
6) 2-Methylnaphthalene-d10	12.319	152	4707	0.347	ng/ul	0.02
18) Fluoranthene-d10	19.339	212	12498	0.402	ng/ul	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.296	88	302m	0.091	ng/ul	
5) Naphthalene	10.779	128	1647	0.069	ng/ul#	75
7) 2-Methylnaphthalene	12.396	142	975	0.065	ng/ul	99
8) 1-Methylnaphthalene	12.605	142	1024	0.066	ng/ul	98
10) Acenaphthylene	14.277	152	1526	0.068	ng/ul#	84
11) Acenaphthene	14.610	153	1273	0.071	ng/ul	96
12) Fluorene	15.614	166	1404	0.071	ng/ul#	94
14) Pentachlorophenol	16.970	266	143	0.064	ng/ul	88
15) Phenanthrene	17.354	178	2264	0.073	ng/ul#	88
16) Anthracene	17.456	178	1861	0.067	ng/ul#	83
19) Fluoranthene	19.367	202	2668	0.071	ng/ul#	91
20) Pyrene	19.738	202	2769	0.071	ng/ul#	93
21) Benzo(a)anthracene	21.487	228	2378	0.066	ng/ul	93
22) Chrysene	21.542	228	2713	0.075	ng/ul	95
24) Benzo(b)fluoranthene	23.196	252	2799	0.074	ng/ul#	63
25) Benzo(k)fluoranthene	23.246	252	2837	0.075	ng/ul#	60
26) Benzo(a)pyrene	23.845	252	2510	0.077	ng/ul#	48
27) Indeno(1,2,3-cd)pyrene	26.536	276	3052	0.078	ng/ul#	99
28) Dibenzo(a,h)anthracene	26.552	278	2403	0.075	ng/ul#	63
29) Benzo(g,h,i)perylene	27.344	276	2662	0.083	ng/ul#	82

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

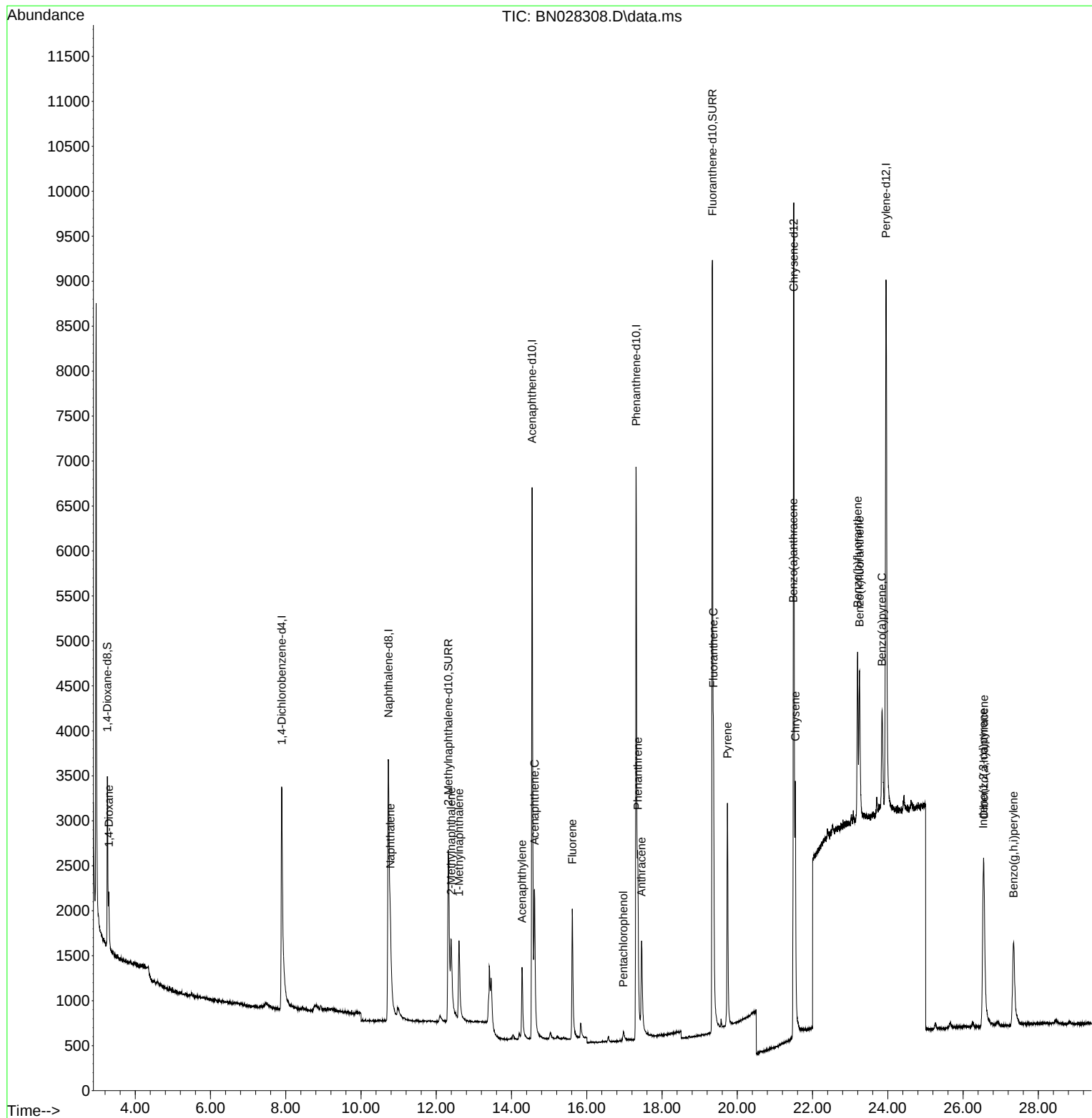
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101723\
Data File : BN028308.D
Acq On : 17 Oct 2023 14:48
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ALS Vial : 5 Sample Multiplier: 1

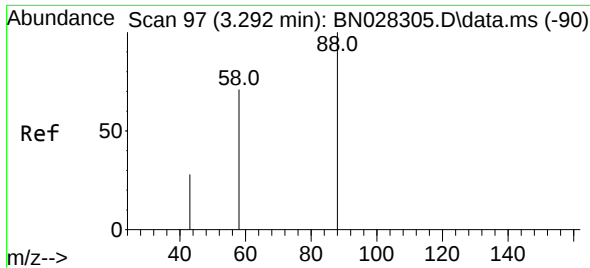
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03

Quant Time: Oct 17 15:18:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-SIM-BN100323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Manual Integrations
APPROVED

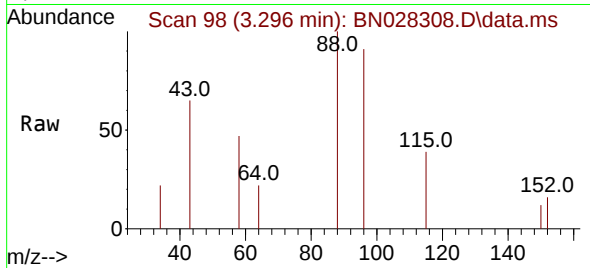
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023





#2
1,4-Dioxane
Concen: 0.091 ng/ul m
RT: 3.296 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

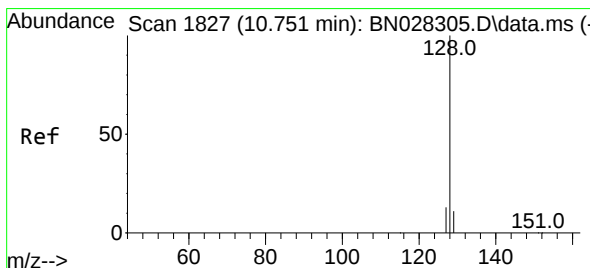
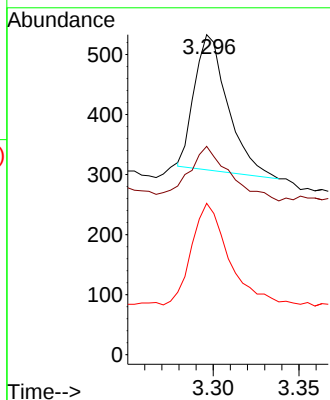
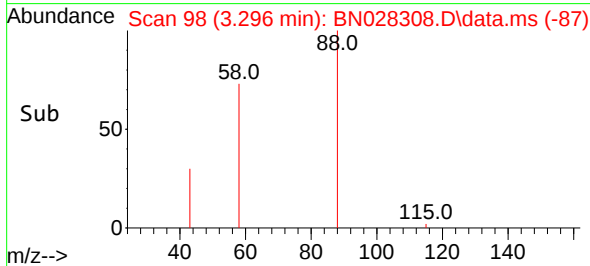
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



Tgt Ion: 88 Resp: 302
Ion Ratio Lower Upper
88 100
43 65.1 33.4 50.2#
58 47.3 45.7 68.5

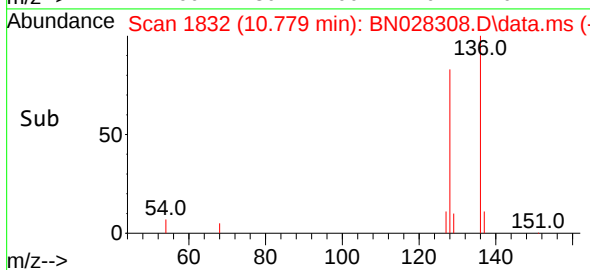
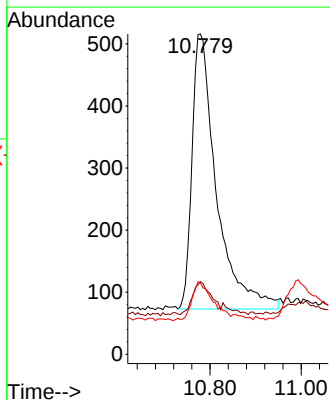
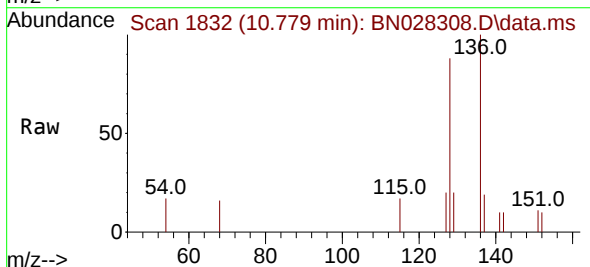
Manual Integrations
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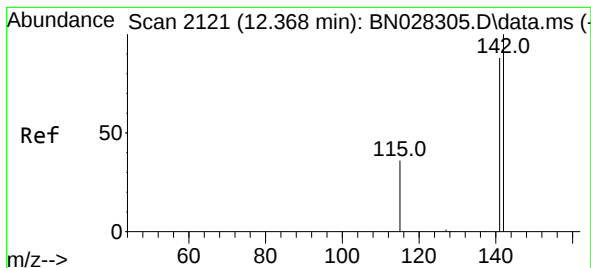
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023



#5
Naphthalene
Concen: 0.069 ng/ul
RT: 10.779 min Scan# 1832
Delta R.T. 0.016 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

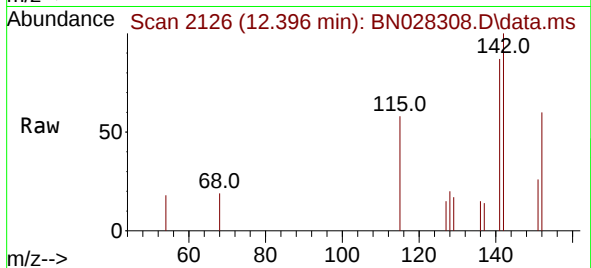
Tgt Ion:128 Resp: 1647
Ion Ratio Lower Upper
128 100
129 22.7 9.4 14.0#
127 22.3 11.0 16.4#





#7
2-Methylnaphthalene
Concen: 0.065 ng/ul
RT: 12.396 min Scan# 2121
Delta R.T. 0.016 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

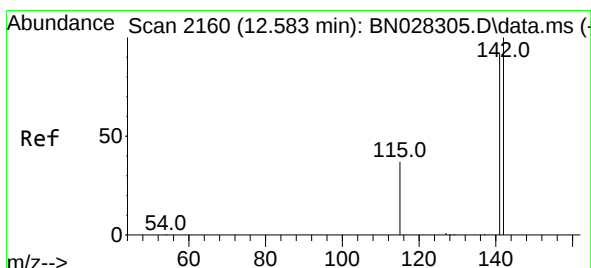
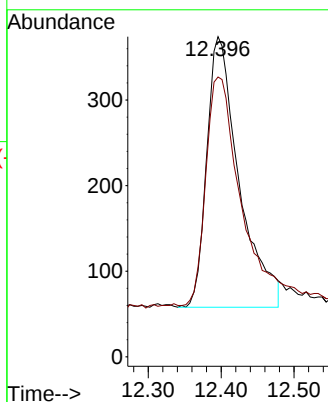
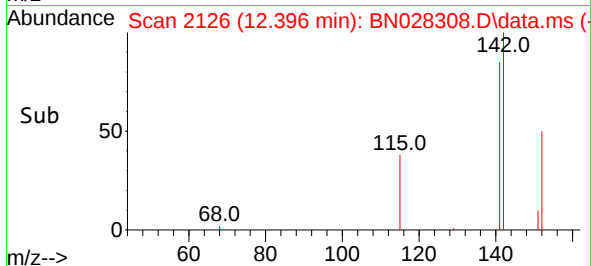
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



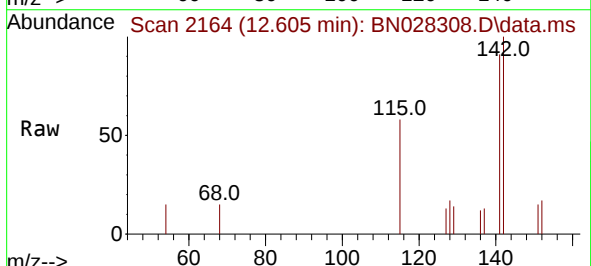
Tgt Ion:142 Resp: 979
Ion Ratio Lower Upper
142 100
141 89.5 70.9 106.3

Manual Integrations
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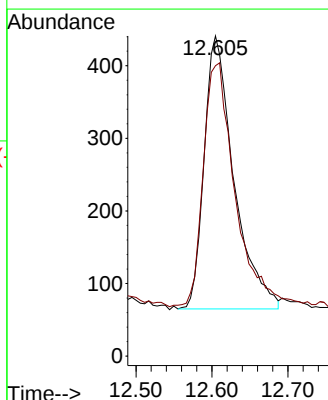
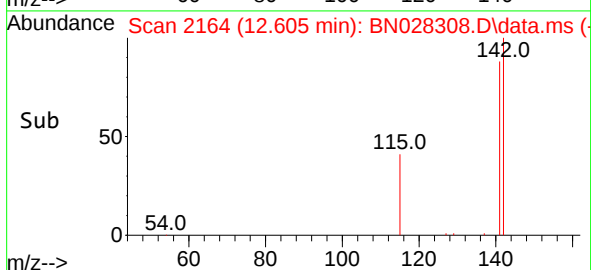
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023

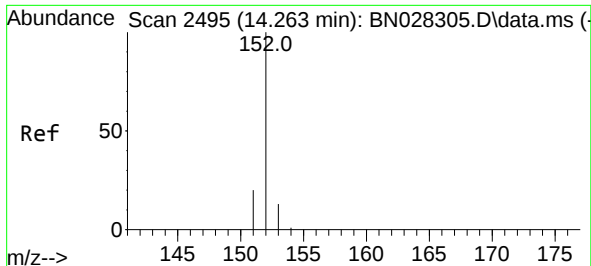


#8
1-Methylnaphthalene
Concen: 0.066 ng/ul
RT: 12.605 min Scan# 2164
Delta R.T. 0.011 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48



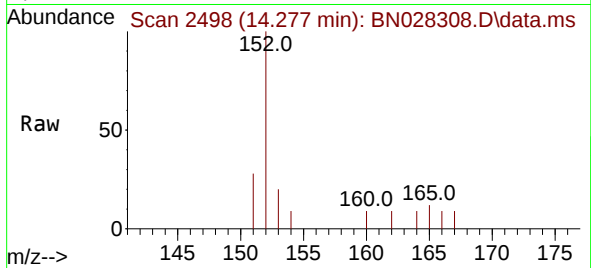
Tgt Ion:142 Resp: 1024
Ion Ratio Lower Upper
142 100
141 94.5 74.4 111.6





#10
Acenaphthylene
Concen: 0.068 ng/u1
RT: 14.277 min Scan# 2495
Delta R.T. 0.005 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

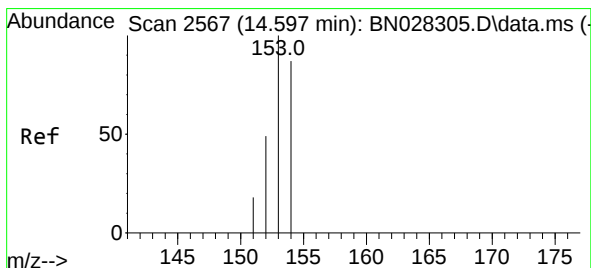
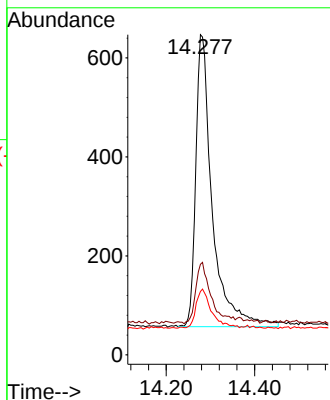
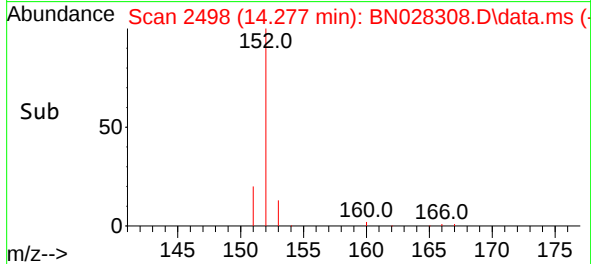
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



Tgt Ion:152 Resp: 1520
Ion Ratio Lower Upper
152 100
151 28.3 16.4 24.6
153 19.8 10.9 16.3

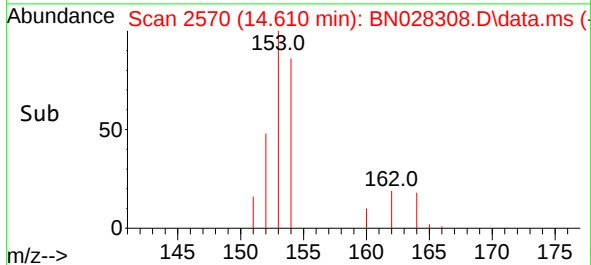
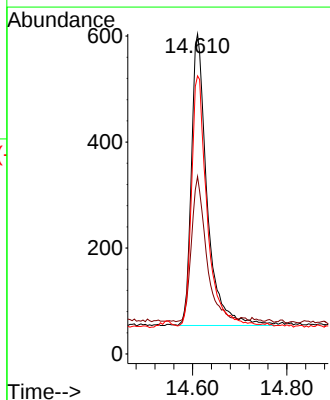
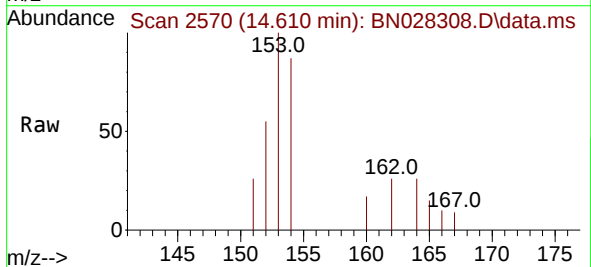
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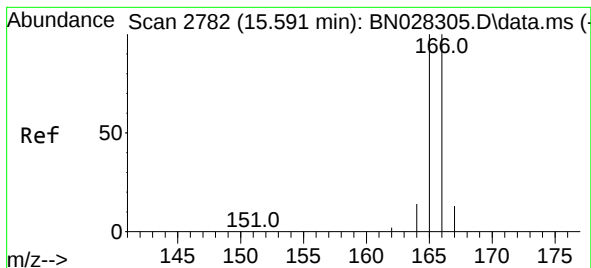
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023



#11
Acenaphthene
Concen: 0.071 ng/u1
RT: 14.610 min Scan# 2570
Delta R.T. 0.005 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

Tgt Ion:153 Resp: 1273
Ion Ratio Lower Upper
153 100
152 55.5 39.4 59.0
154 86.9 70.2 105.4





#12

Fluorene

Concen: 0.071 ng/ul

RT: 15.614 min Scan# 21

Delta R.T. 0.014 min

Lab File: BN028308.D

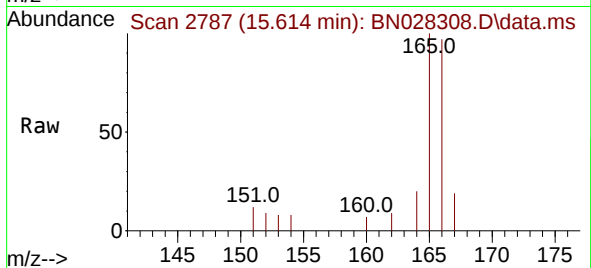
Acq: 17 Oct 2023 14:48

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT2-2023-03



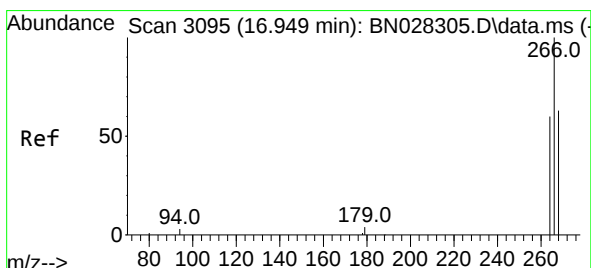
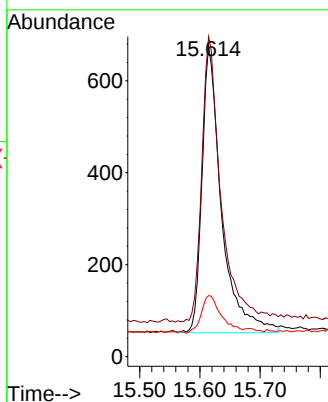
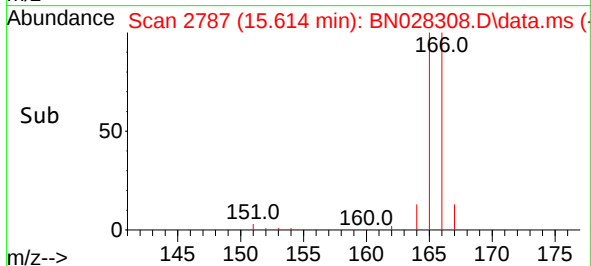
Tgt Ion:	166	Resp:	140
Ion Ratio	Lower	Upper	
166	100		
165	102.8	78.5	117.7
167	19.6	11.2	16.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/18/2023

Supervised By :mohammad ahmed 10/19/2023



#14

Pentachlorophenol

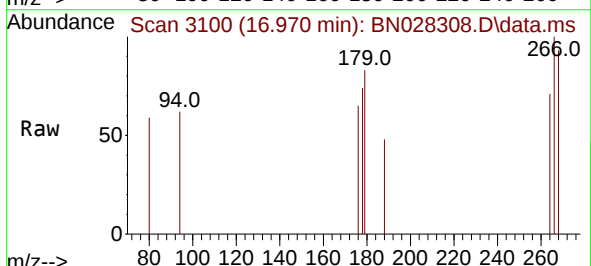
Concen: 0.064 ng/ul

RT: 16.970 min Scan# 3100

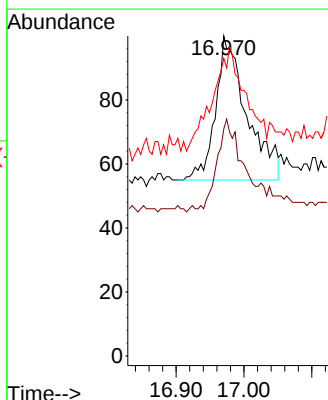
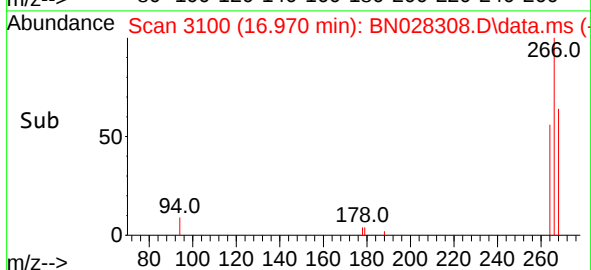
Delta R.T. 0.009 min

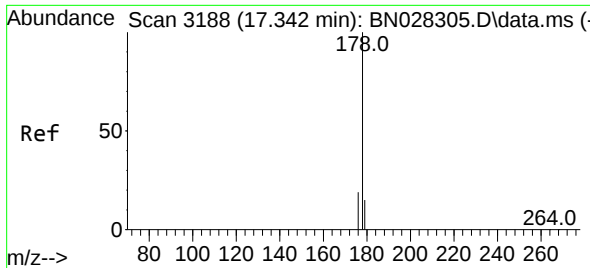
Lab File: BN028308.D

Acq: 17 Oct 2023 14:48



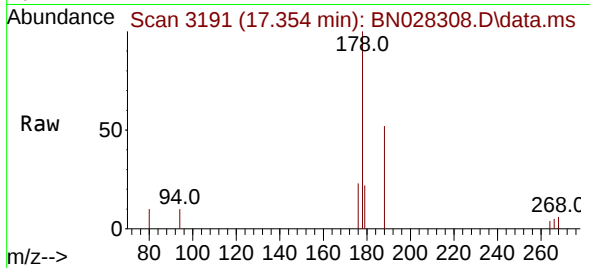
Tgt Ion:	266	Resp:	143
Ion Ratio	Lower	Upper	
266	100		
264	55.2	49.6	74.4
268	77.6	52.2	78.4





#15
Phenanthrene
Concen: 0.073 ng/u1
RT: 17.354 min Scan# 3188
Delta R.T. 0.009 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

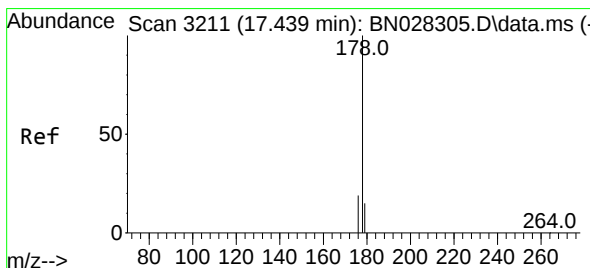
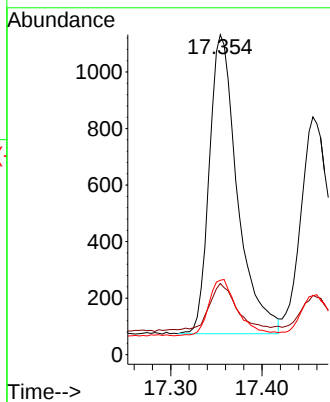
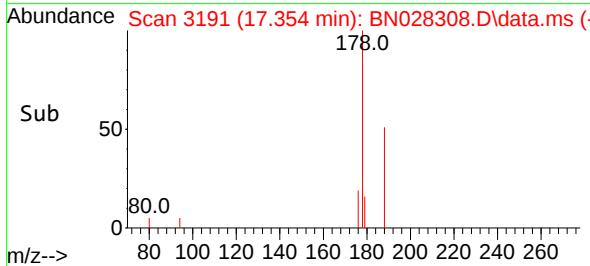
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



Tgt Ion:178 Resp: 2264
Ion Ratio Lower Upper
178 100
179 22.3 12.6 19.0#
176 23.2 15.5 23.3

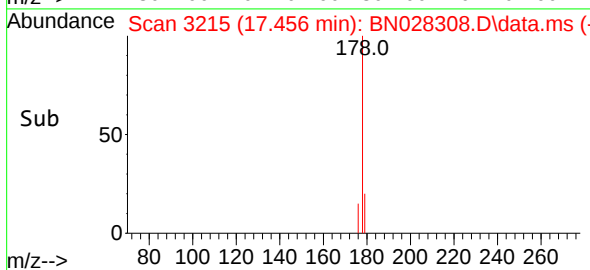
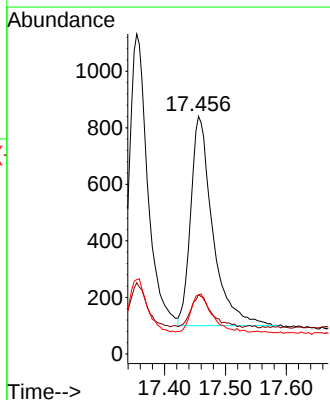
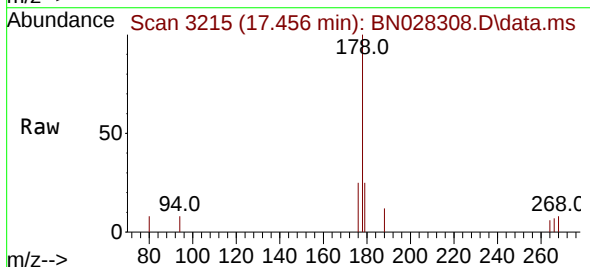
Manual Integrations
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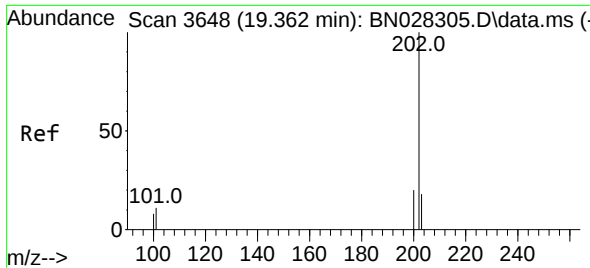
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023



#16
Anthracene
Concen: 0.067 ng/u1
RT: 17.456 min Scan# 3215
Delta R.T. 0.013 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

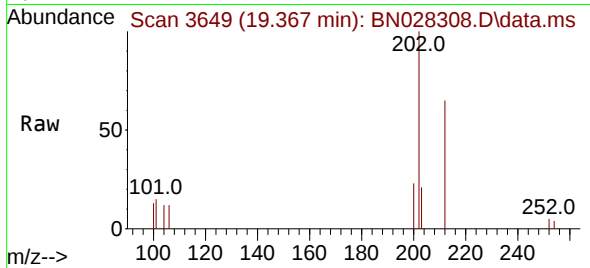
Tgt Ion:178 Resp: 1861
Ion Ratio Lower Upper
178 100
179 25.0 12.8 19.2#
176 24.7 15.0 22.6#





#19
Fluoranthene
Concen: 0.071 ng/u1
RT: 19.367 min Scan# 3649
Delta R.T. 0.000 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

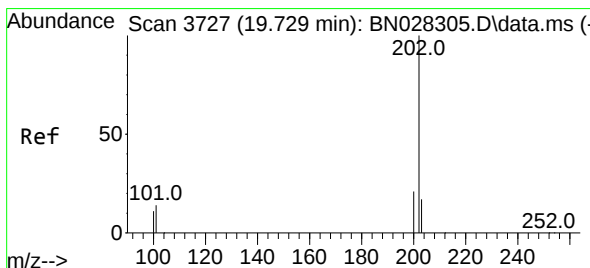
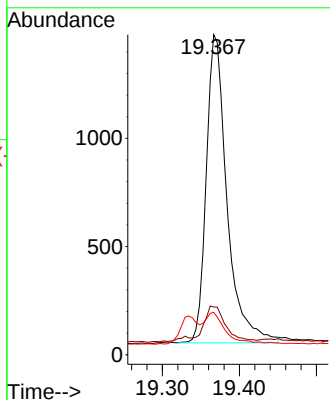
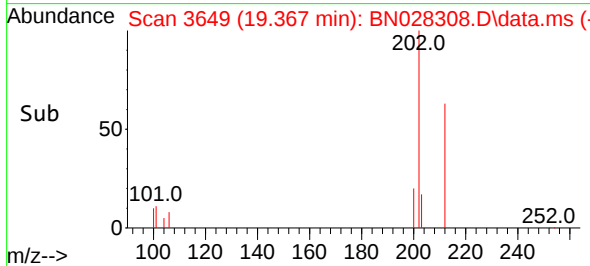
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



Tgt Ion:202 Resp: 2668
Ion Ratio Lower Upper
202 100
101 14.9 9.6 14.4
100 13.3 7.4 11.0

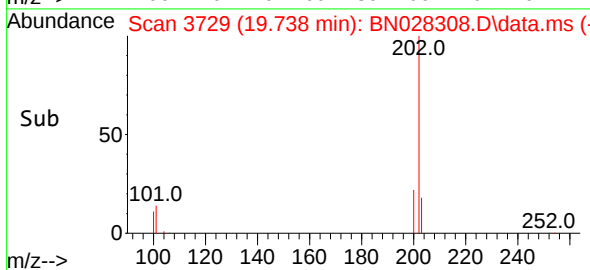
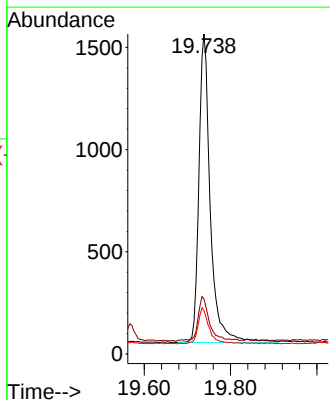
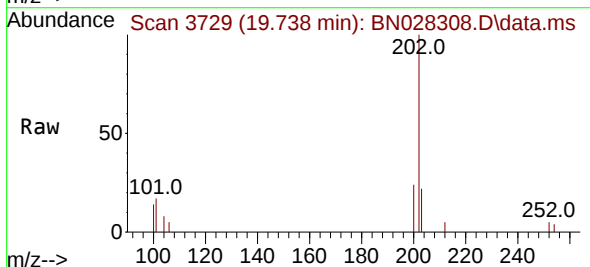
Manual Integrations
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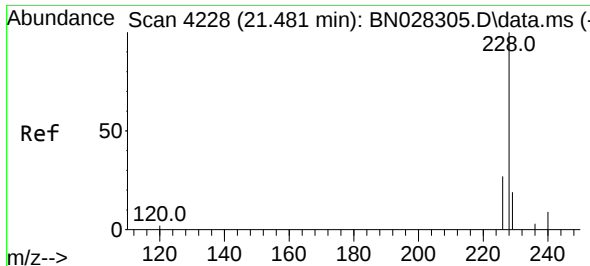
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023



#20
Pyrene
Concen: 0.071 ng/u1
RT: 19.738 min Scan# 3729
Delta R.T. 0.005 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

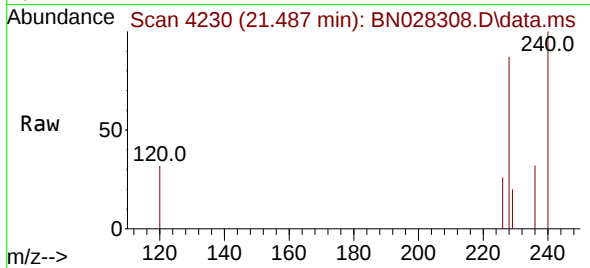
Tgt Ion:202 Resp: 2769
Ion Ratio Lower Upper
202 100
101 17.2 11.2 16.8
100 13.7 9.1 13.7





#21
Benzo(a)anthracene
Concen: 0.066 ng/u1
RT: 21.487 min Scan# 4228
Delta R.T. 0.003 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

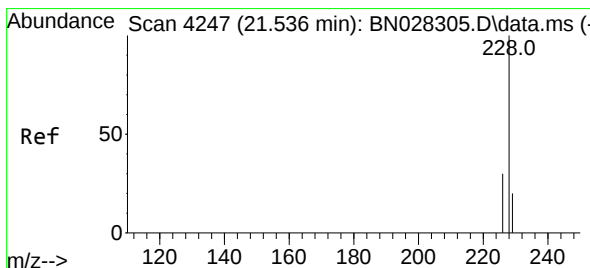
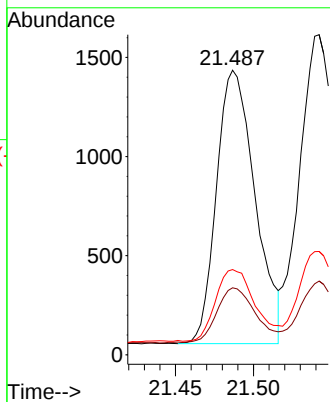
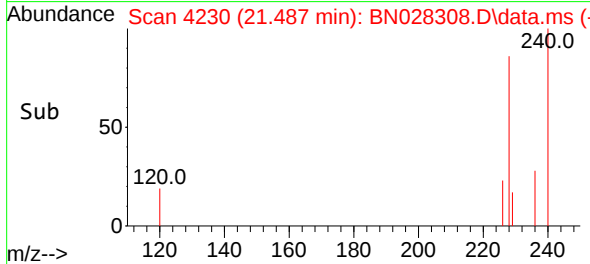
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



Tgt Ion:228 Resp: 2378
Ion Ratio Lower Upper
228 100
229 23.5 16.0 24.0
226 29.9 21.5 32.3

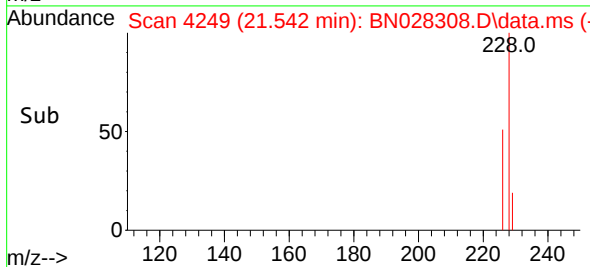
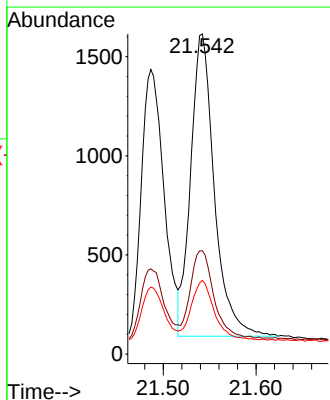
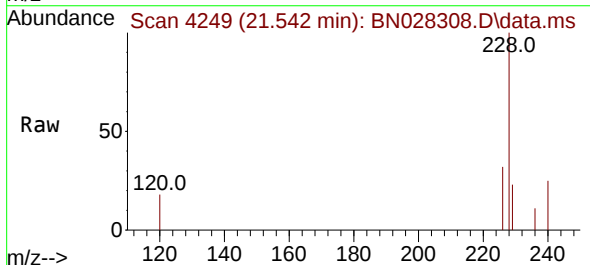
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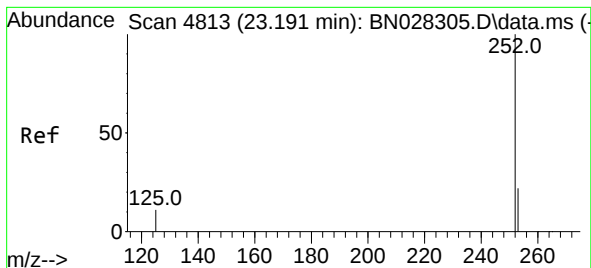
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023



#22
Chrysene
Concen: 0.075 ng/u1
RT: 21.542 min Scan# 4249
Delta R.T. 0.006 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

Tgt Ion:228 Resp: 2713
Ion Ratio Lower Upper
228 100
226 32.3 23.8 35.8
229 23.0 16.0 24.0





#24

Benzo(b)fluoranthene

Concen: 0.074 ng/ul

RT: 23.196 min Scan# 4813

Delta R.T. 0.003 min

Lab File: BN028308.D

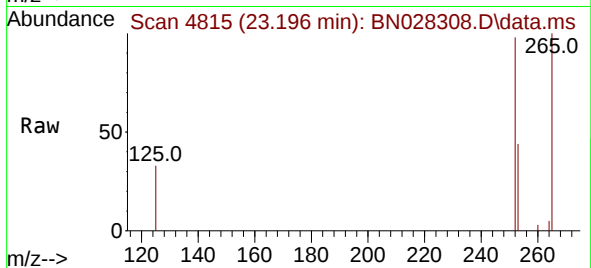
Acq: 17 Oct 2023 14:48

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT2-2023-03



Tgt Ion:252 Resp: 2799

Ion Ratio Lower Upper

252 100

253 44.8 0.0 54.0

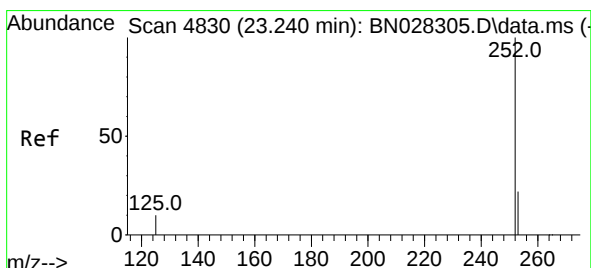
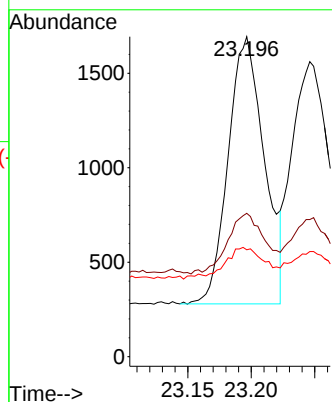
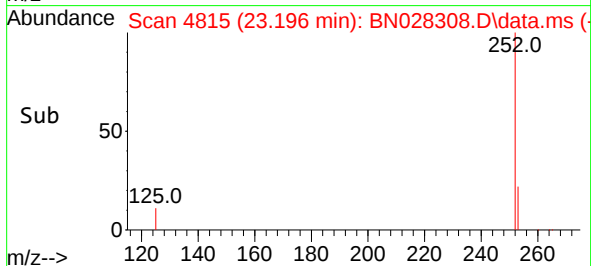
125 33.4 0.0 31.4

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Reviewed By :Yogesh Patel 10/18/2023

Supervised By :mohammad ahmed 10/19/2023



#25

Benzo(k)fluoranthene

Concen: 0.075 ng/ul

RT: 23.246 min Scan# 4832

Delta R.T. 0.006 min

Lab File: BN028308.D

Acq: 17 Oct 2023 14:48

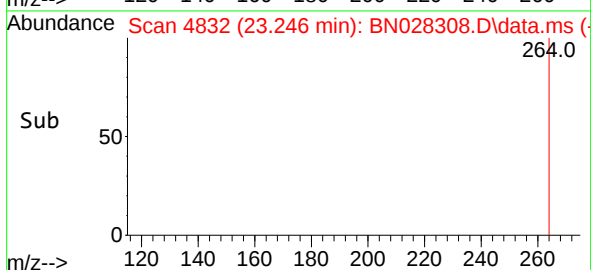
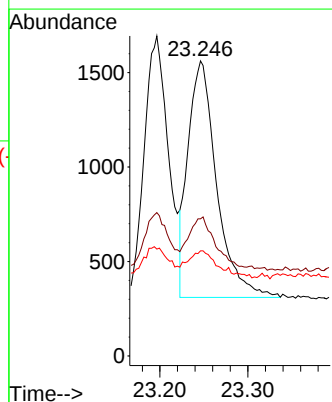
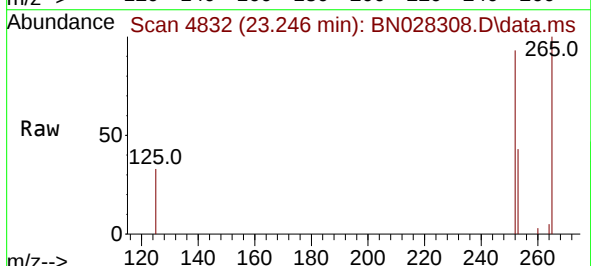
Tgt Ion:252 Resp: 2837

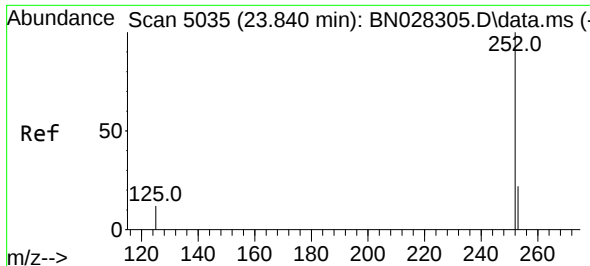
Ion Ratio Lower Upper

252 100

253 46.5 21.8 32.8#

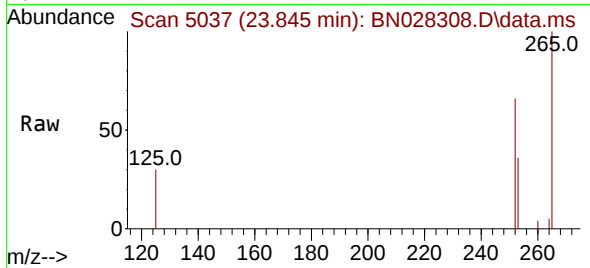
125 35.6 12.8 19.2#





#26
Benzo(a)pyrene
Concen: 0.077 ng/ul
RT: 23.845 min Scan# 5035
Delta R.T. 0.003 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48

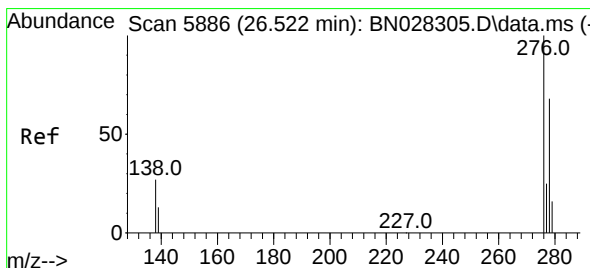
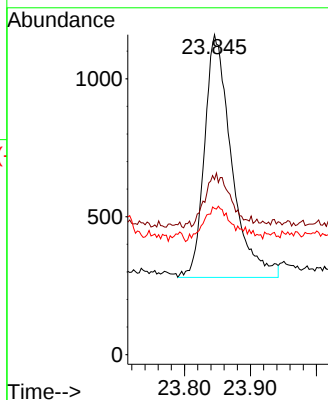
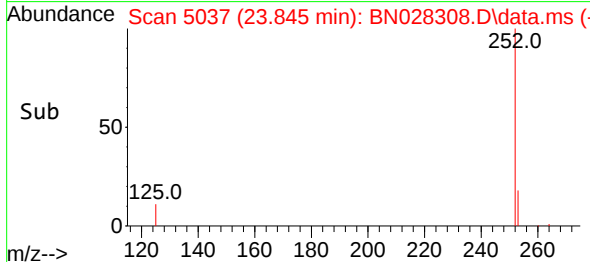
Instrument :
BNA_N
ClientSampleId :
MDL-SOIL-QT2-2023-03



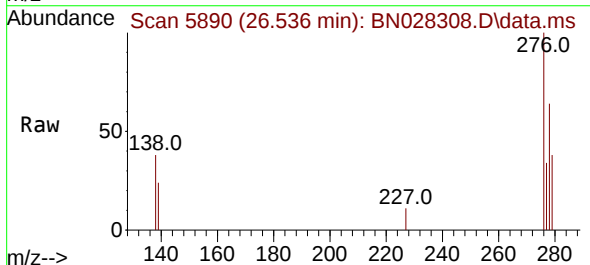
Tgt Ion:252 Resp: 2510
Ion Ratio Lower Upper
252 100
253 54.7 23.4 35.2
125 45.7 15.3 22.9

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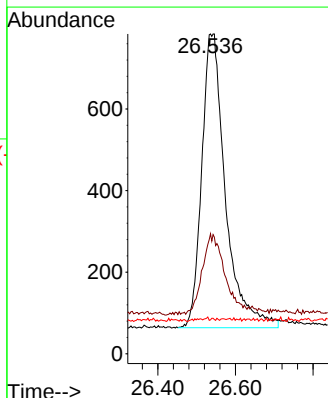
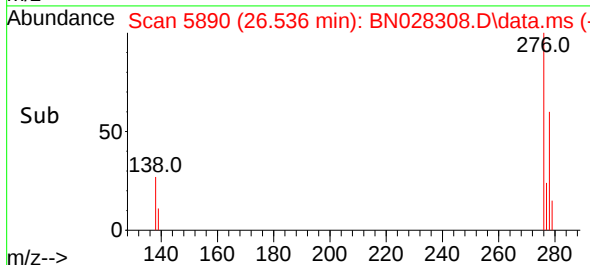
Reviewed By :Yogesh Patel 10/18/2023
Supervised By :mohammad ahmed 10/19/2023

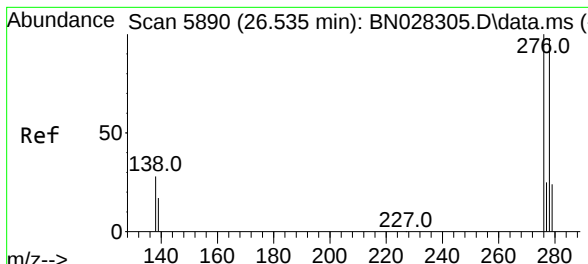


#27
Indeno(1,2,3-cd)pyrene
Concen: 0.078 ng/ul
RT: 26.536 min Scan# 5890
Delta R.T. 0.010 min
Lab File: BN028308.D
Acq: 17 Oct 2023 14:48



Tgt Ion:276 Resp: 3052
Ion Ratio Lower Upper
276 100
138 26.5 21.6 32.4
227 0.1 0.2 0.2





#28

Dibenzo(a,h)anthracene

Concen: 0.075 ng/ul

RT: 26.552 min Scan# 5895

Delta R.T. 0.007 min

Lab File: BN028308.D

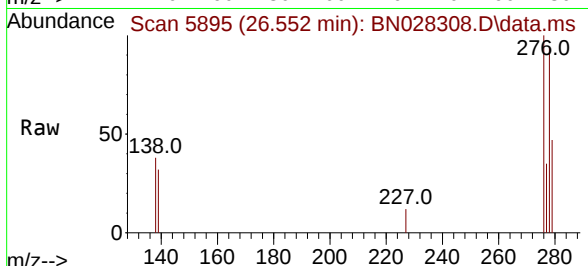
Acq: 17 Oct 2023 14:48

Instrument :

BNA_N

ClientSampleId :

MDL-SOIL-QT2-2023-03



Tgt Ion:278 Resp: 240

Ion Ratio Lower Upper

278 100

139 33.8 15.9 23.9

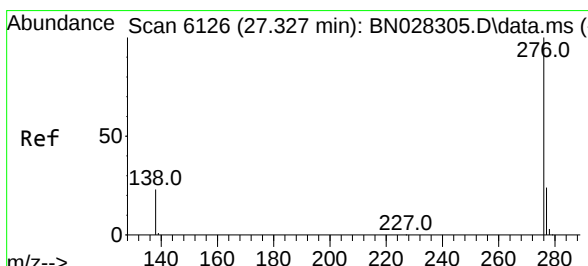
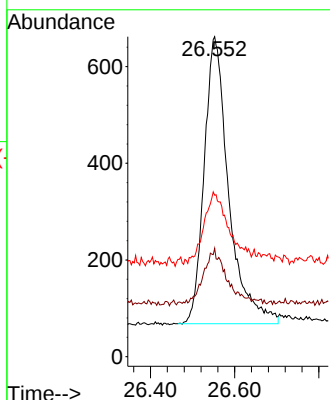
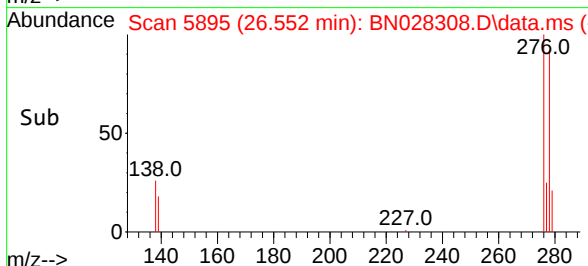
279 50.5 22.8 34.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/18/2023

Supervised By :mohammad ahmed 10/19/2023



#29

Benzo(g,h,i)perylene

Concen: 0.083 ng/ul

RT: 27.344 min Scan# 6131

Delta R.T. 0.014 min

Lab File: BN028308.D

Acq: 17 Oct 2023 14:48

Tgt Ion:276 Resp: 2662

Ion Ratio Lower Upper

276 100

138 35.3 19.8 29.6

277 33.6 20.6 31.0

