

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025317.D
 Acq On : 06 May 2023 15:56
 Operator : CG/JU
 Sample : 02588-01
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023

Quant Time: May 08 04:00:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 08 02:37:05 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 05/08/2023
 Supervised By : Jagrut Upadhyay 05/08/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	8541	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	28663	0.400	ng	-0.01
13) Acenaphthene-d10	14.544	164	17349	0.400	ng	-0.01
19) Phenanthrene-d10	17.298	188	38662	0.400	ng	-0.01
29) Chrysene-d12	21.500	240	28560	0.400	ng	# 0.00
35) Perylene-d12	23.936	264	27851	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	5954	0.286	ng	0.00
5) Phenol-d6	7.081	99	8003	0.307	ng	0.00
8) Nitrobenzene-d5	9.074	82	5748	0.244	ng	-0.02
11) 2-Methylnaphthalene-d10	12.306	152	10978	0.280	ng	-0.01
14) 2,4,6-Tribromophenol	16.045	330	2452	0.276	ng	-0.02
15) 2-Fluorobiphenyl	13.176	172	16262	0.273	ng	-0.01
27) Fluoranthene-d10	19.334	212	24119	0.252	ng	0.00
31) Terphenyl-d14	19.924	244	19339	0.336	ng	-0.01
Target Compounds						
9) Naphthalene	10.761	128	58615	0.797	ng	99
12) 2-Methylnaphthalene	12.377	142	28632	0.551	ng	99
16) Acenaphthylene	14.266	152	60314	0.776	ng	98
17) Acenaphthene	14.609	154	109949	2.276	ng	98
18) Fluorene	15.603	166	221092	3.340	ng	97
25) Phenanthrene	17.336	178	2458071	22.979	ng	100
26) Anthracene	17.435	178	769392	7.678	ng	99
28) Fluoranthene	19.363	202	4143134	30.998	ng	98
30) Pyrene	19.730	202	3409104	34.917	ng	# 94
32) Benzo(a)anthracene	21.482	228	1759857	18.230	ng	99
33) Chrysene	21.536	228	1415374	14.730	ng	98
34) Bis(2-ethylhexyl)phtha...	21.392	149	36691	0.484	ng	98
36) Indeno(1,2,3-cd)pyrene	26.474	276	681790	6.106	ng	96
37) Benzo(b)fluoranthene	23.197	252	1579770m	17.894	ng	
38) Benzo(k)fluoranthene	23.235	252	617370m	6.680	ng	
39) Benzo(a)pyrene	23.831	252	1133953m	12.538	ng	
40) Dibenzo(a,h)anthracene	26.483	278	179237	2.033	ng	97
41) Benzo(g,h,i)perylene	27.258	276	605656	6.255	ng	98

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

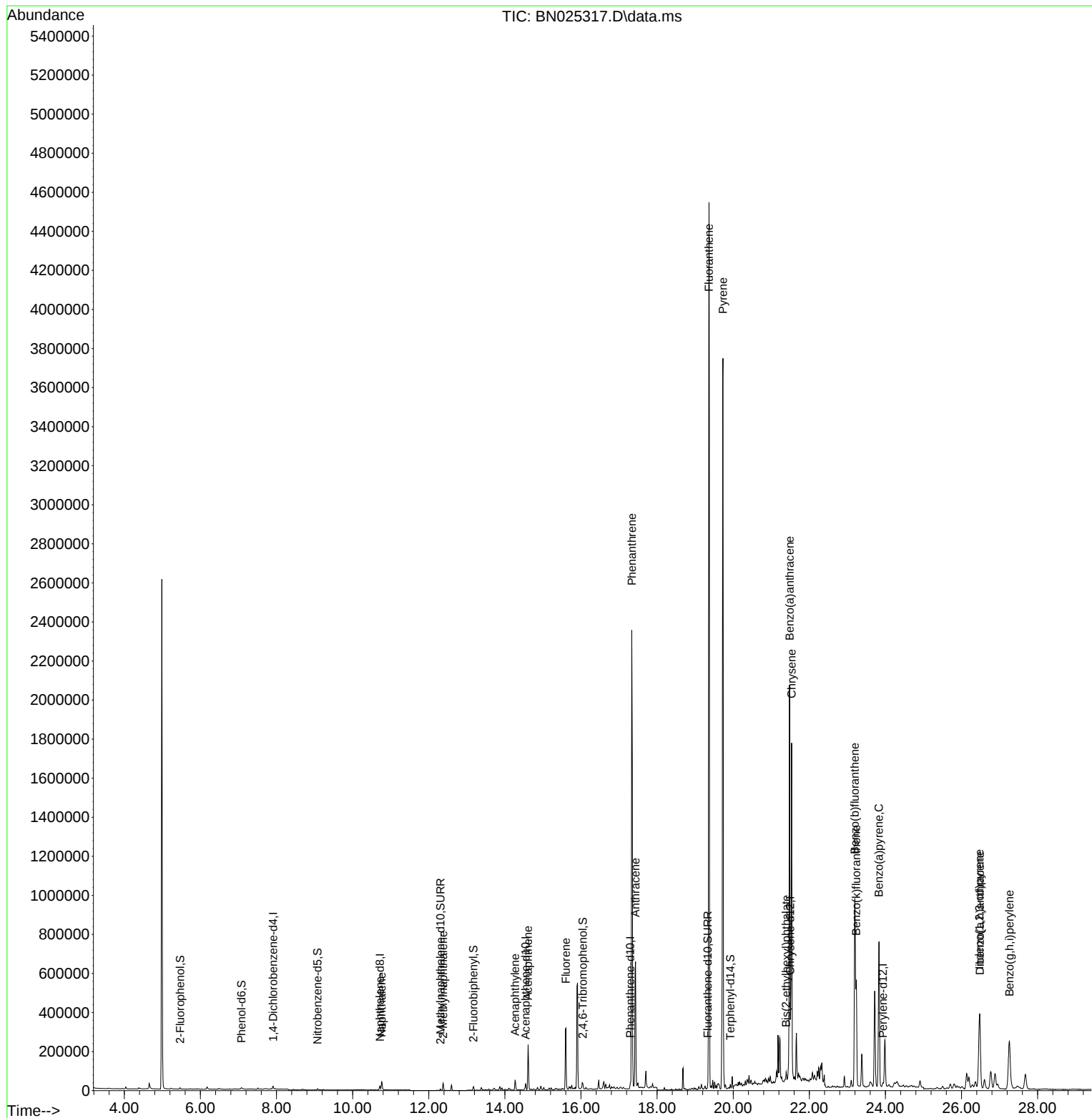
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
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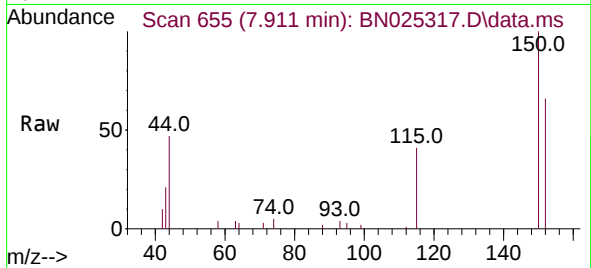
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.911 min Scan# 655
Delta R.T. 0.000 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

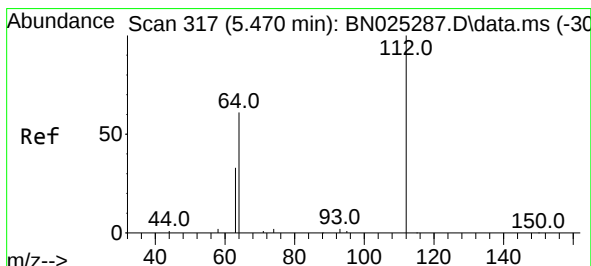
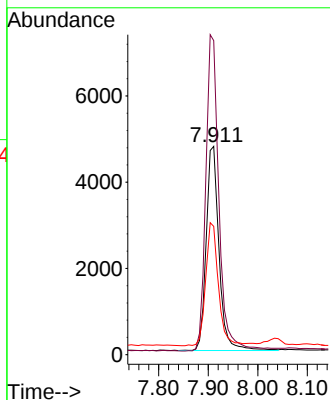
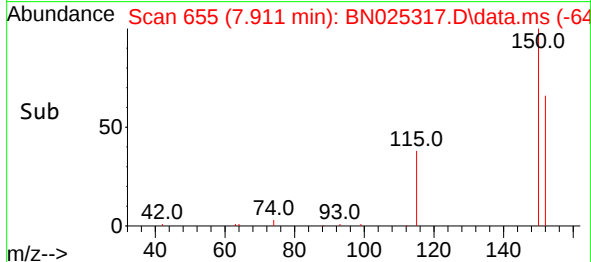
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



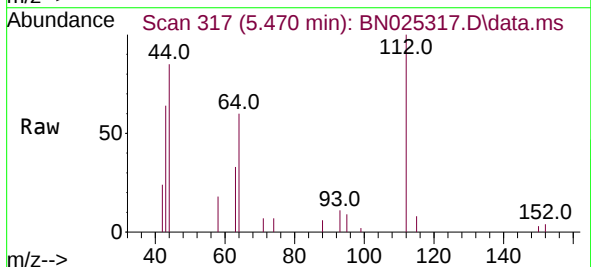
Tgt Ion:152 Resp: 854
Ion Ratio Lower Upper
152 100
150 150.8 123.8 185.8
115 61.6 52.9 79.3

Manual Integrations
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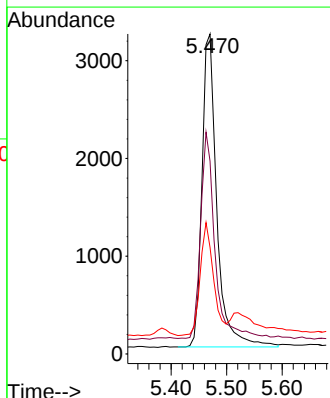
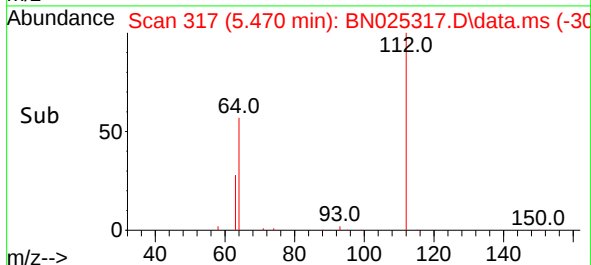
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

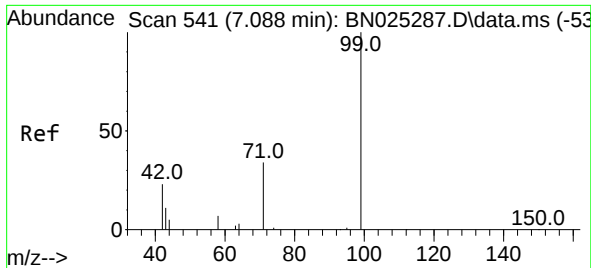


#4
2-Fluorophenol
Concen: 0.286 ng
RT: 5.470 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56



Tgt Ion:112 Resp: 5954
Ion Ratio Lower Upper
112 100
64 63.8 51.5 77.3
63 32.5 27.8 41.6





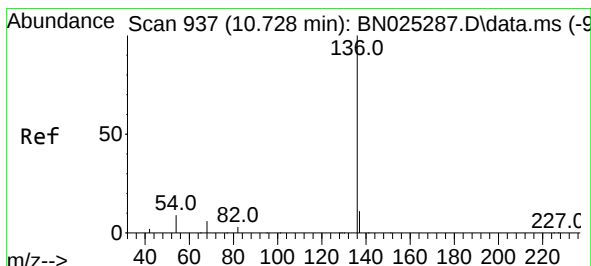
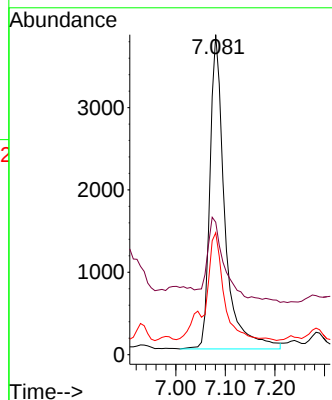
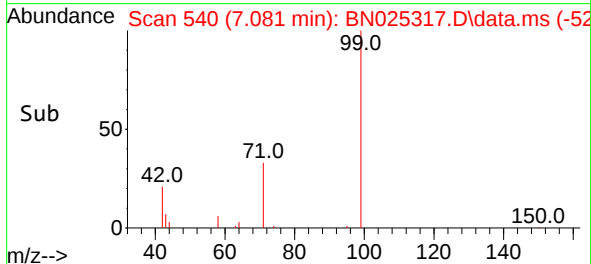
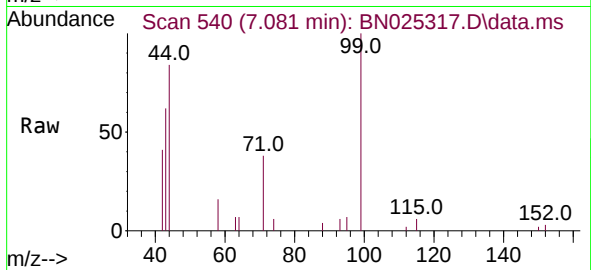
#5
Phenol-d6
Concen: 0.307 ng
RT: 7.081 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

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ClientSampleId :
ZONE-B-0-3-05012023

Tgt Ion: 99 Resp: 800
Ion Ratio Lower Upper
99 100
42 33.4 22.0 33.0
71 42.5 28.7 43.1

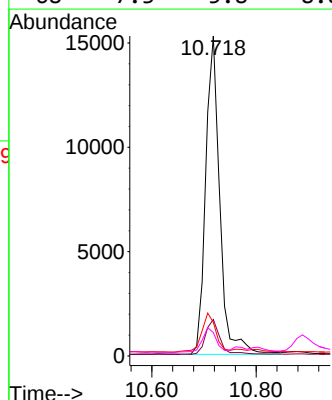
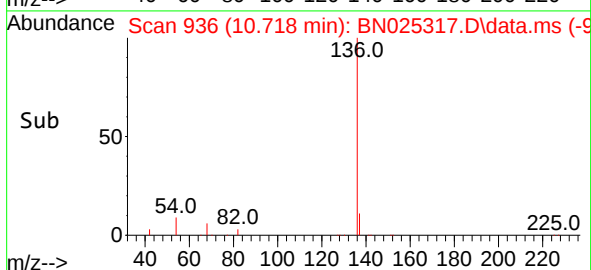
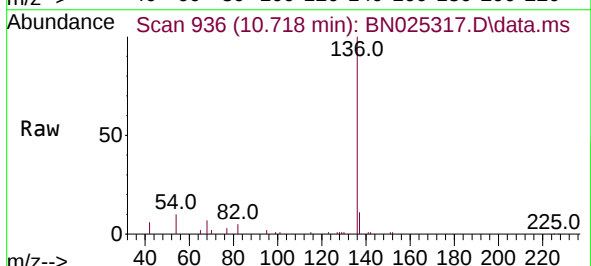
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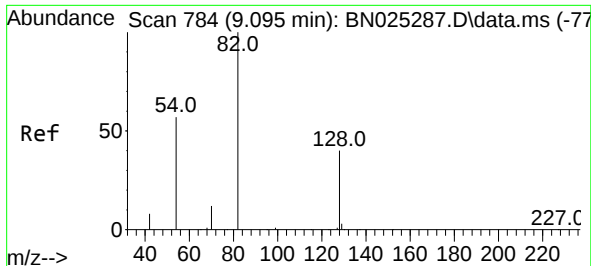
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

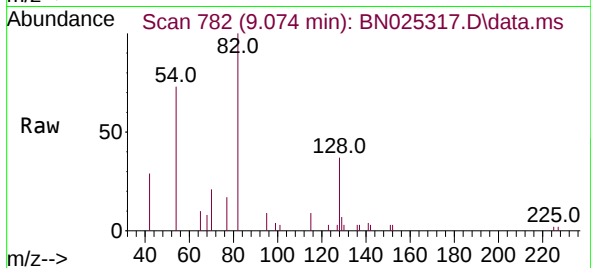
Tgt Ion:136 Resp: 28663
Ion Ratio Lower Upper
136 100
137 11.4 9.4 14.2
54 10.5 8.5 12.7
68 7.3 5.8 8.8





#8
Nitrobenzene-d5
Concen: 0.244 ng
RT: 9.074 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

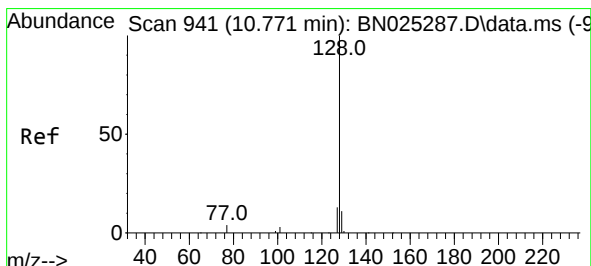
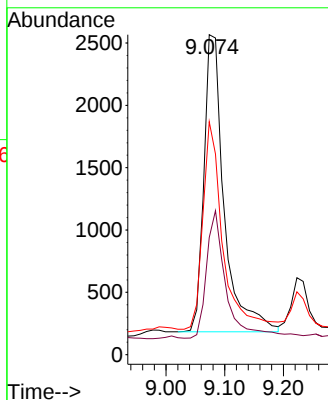
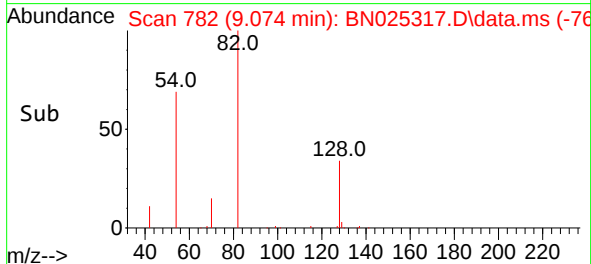
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion: 82 Resp: 5748
Ion Ratio Lower Upper
82 100
128 36.6 35.3 52.9
54 72.8 48.7 73.1

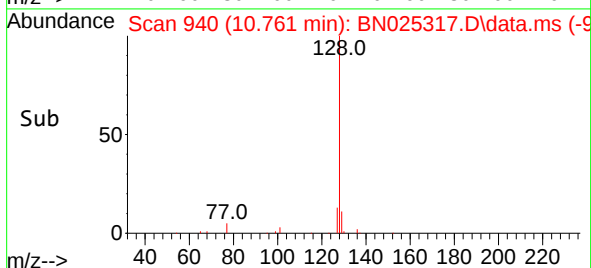
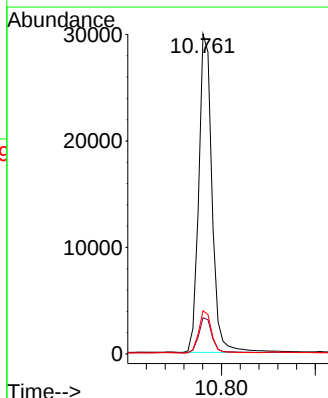
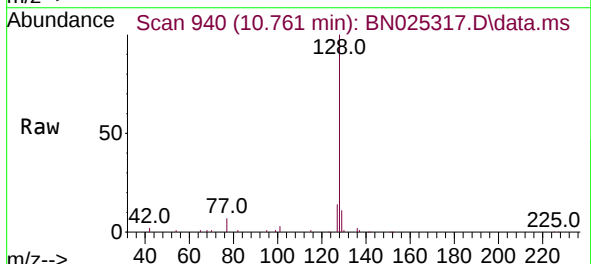
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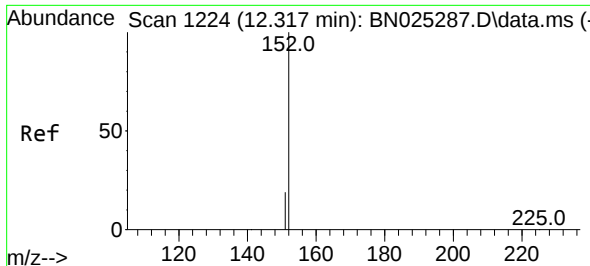
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#9
Naphthalene
Concen: 0.797 ng
RT: 10.761 min Scan# 940
Delta R.T. -0.011 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

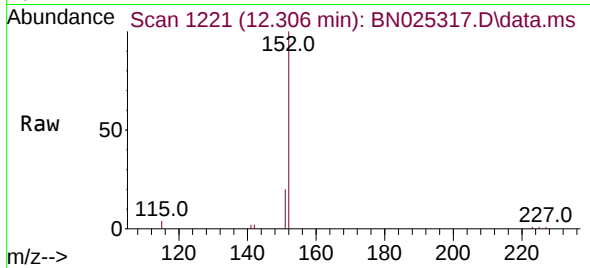
Tgt Ion:128 Resp: 58615
Ion Ratio Lower Upper
128 100
129 11.3 9.4 14.2
127 13.5 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.306 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

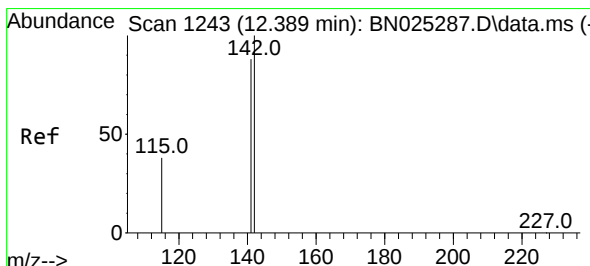
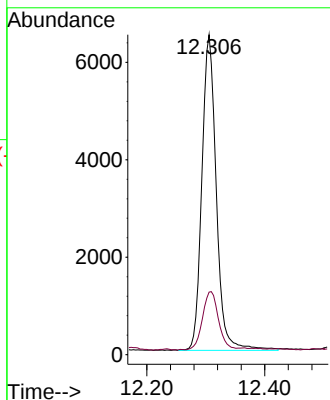
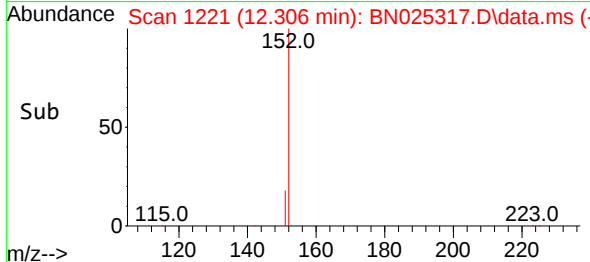
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



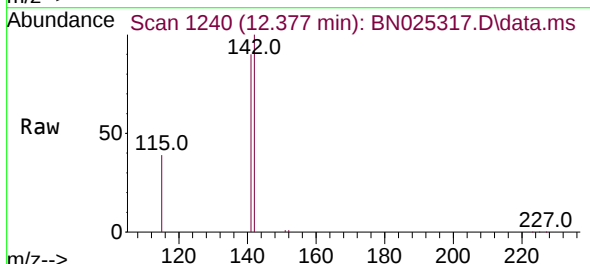
Tgt Ion:152 Resp: 10978
Ion Ratio Lower Upper
152 100
151 20.4 16.4 24.6

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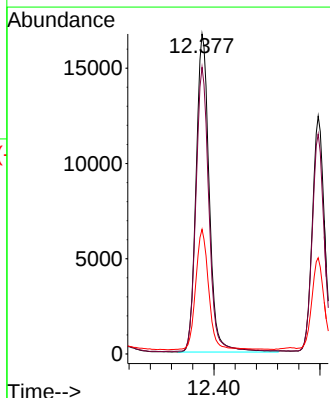
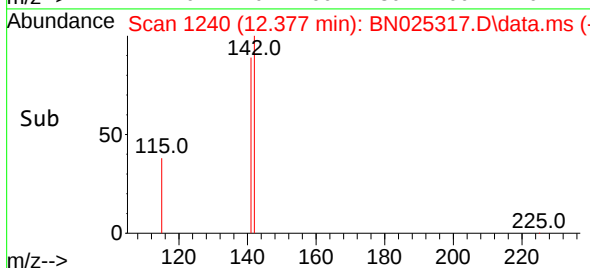
Reviewed By :Christian Giraldo 05/08/2023
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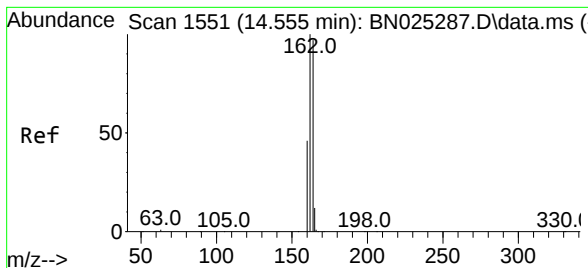


#12
2-Methylnaphthalene
Concen: 0.551 ng
RT: 12.377 min Scan# 1240
Delta R.T. -0.011 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56



Tgt Ion:142 Resp: 28632
Ion Ratio Lower Upper
142 100
141 89.6 70.5 105.7
115 39.0 31.6 47.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.544 min Scan# 1551

Delta R.T. -0.011 min

Lab File: BN025317.D

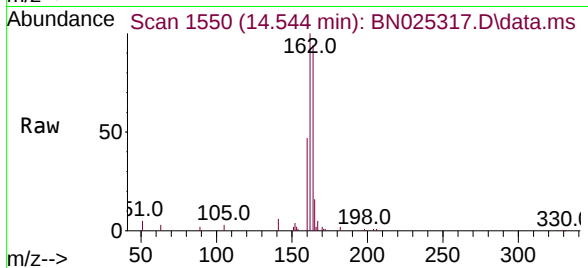
Acq: 06 May 2023 15:56

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023



Tgt Ion:164 Resp: 17349

Ion Ratio Lower Upper

164 100

162 106.2 82.1 123.1

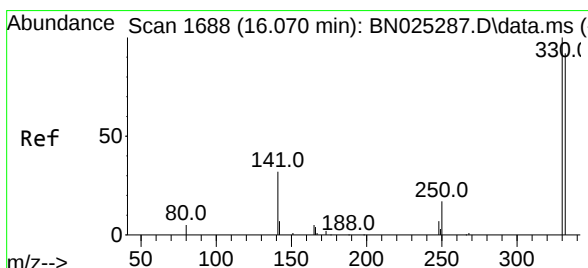
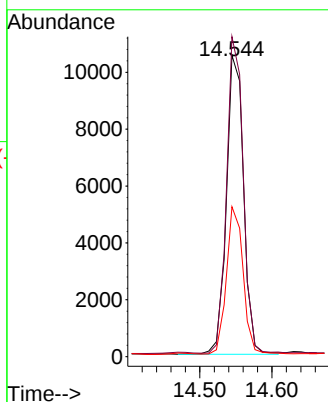
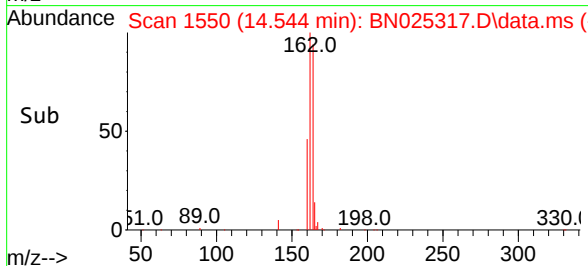
160 49.8 38.3 57.5

Manual Integrations

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#14

2,4,6-Tribromophenol

Concen: 0.276 ng

RT: 16.045 min Scan# 1686

Delta R.T. -0.025 min

Lab File: BN025317.D

Acq: 06 May 2023 15:56

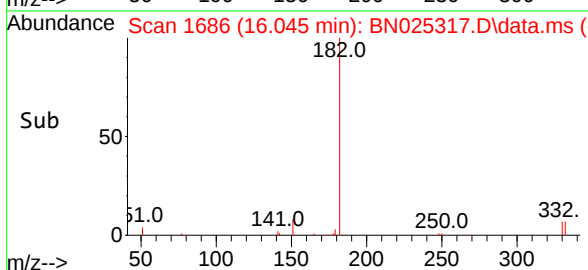
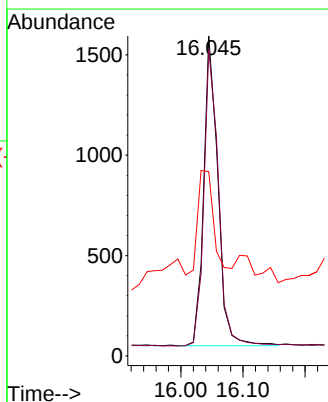
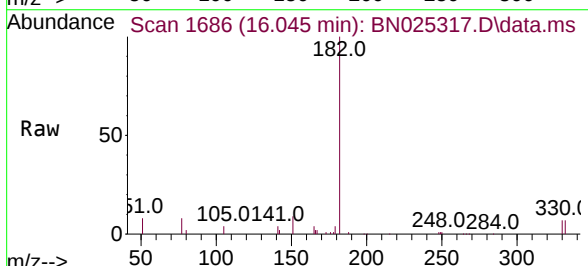
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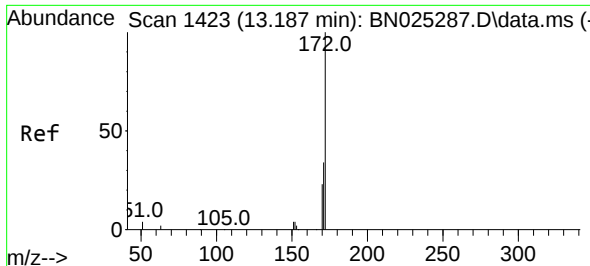
Ion Ratio Lower Upper

330 100

332 98.5 77.4 116.0

141 39.7 28.9 43.3





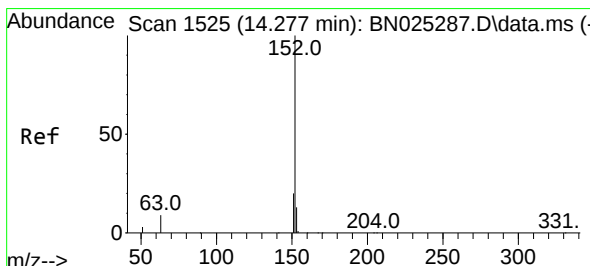
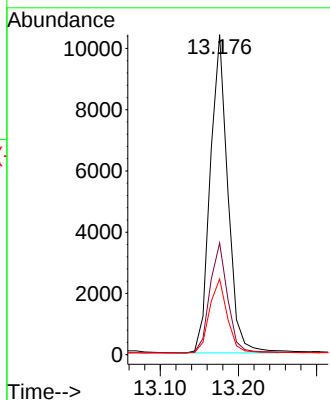
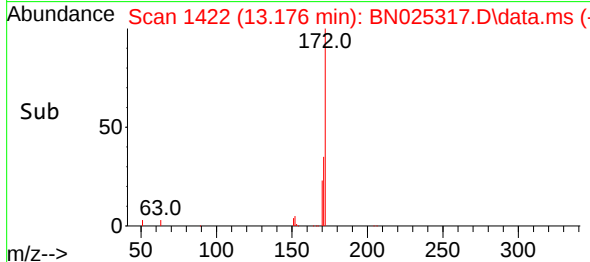
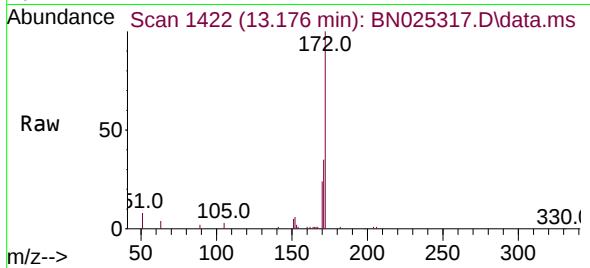
#15
2-Fluorobiphenyl
Concen: 0.273 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

Instrument :
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ZONE-B-0-3-05012023

Tgt Ion:172 Resp: 1626
Ion Ratio Lower Upper
172 100
171 34.9 27.9 41.9
170 23.7 19.0 28.4

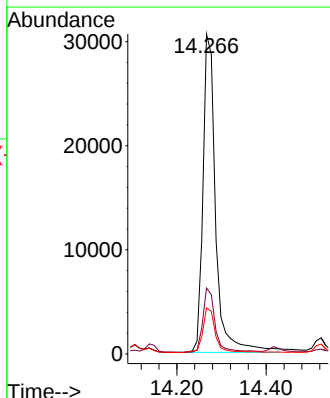
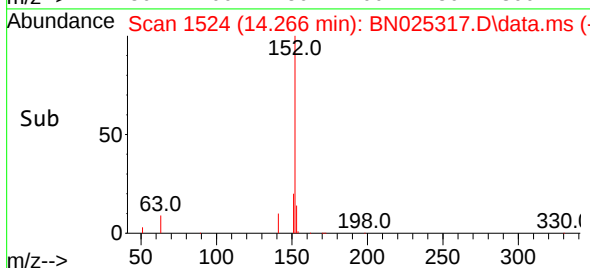
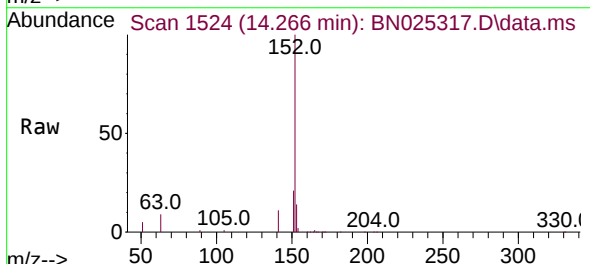
Manual Integrations
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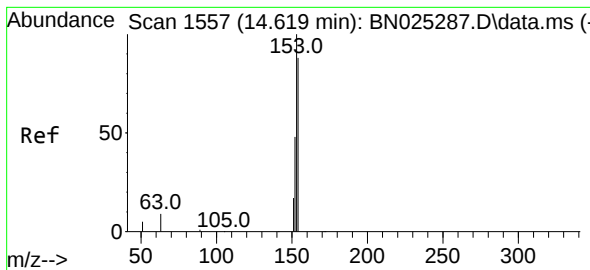
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#16
Acenaphthylene
Concen: 0.776 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.011 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

Tgt Ion:152 Resp: 60314
Ion Ratio Lower Upper
152 100
151 19.6 16.1 24.1
153 14.0 10.3 15.5





#17

Acenaphthene

Concen: 2.276 ng

RT: 14.609 min Scan# 1556

Delta R.T. -0.011 min

Lab File: BN025317.D

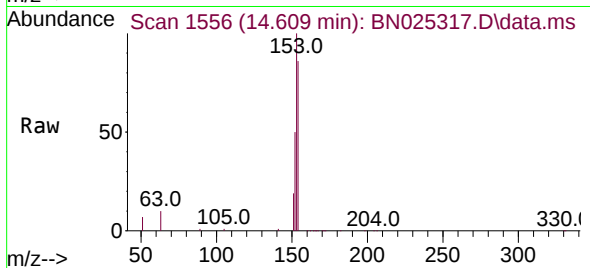
Acq: 06 May 2023 15:56

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023



Tgt Ion:154 Resp: 109949

Ion Ratio Lower Upper

154 100

153 114.6 91.3 136.9

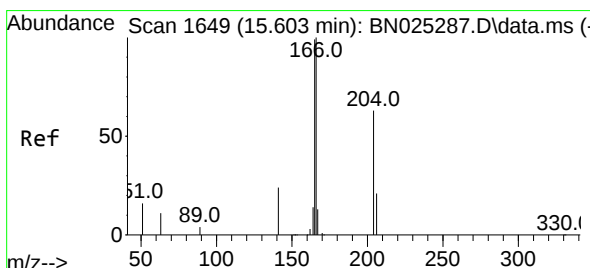
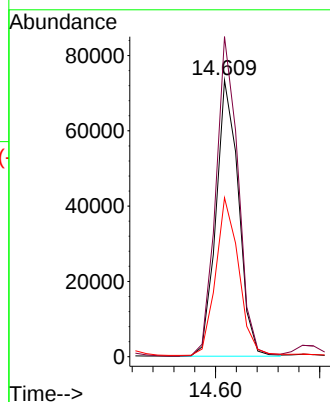
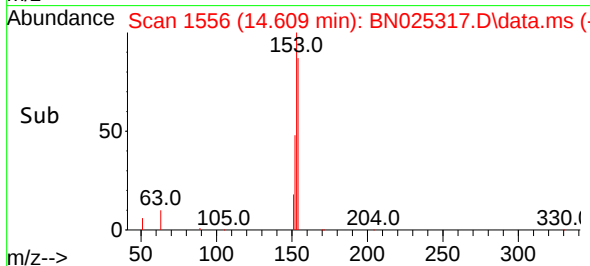
152 59.1 44.7 67.1

Manual Integrations

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Reviewed By :Christian Giraldo 05/08/2023

Supervised By :Jagrut Upadhyay 05/08/2023



#18

Fluorene

Concen: 3.340 ng

RT: 15.603 min Scan# 1649

Delta R.T. 0.000 min

Lab File: BN025317.D

Acq: 06 May 2023 15:56

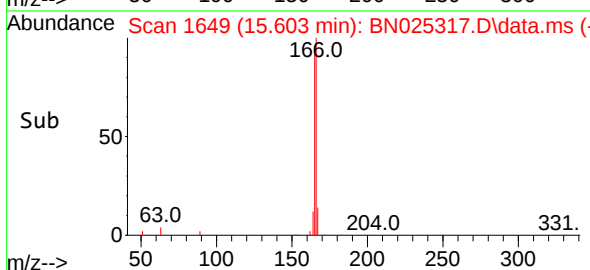
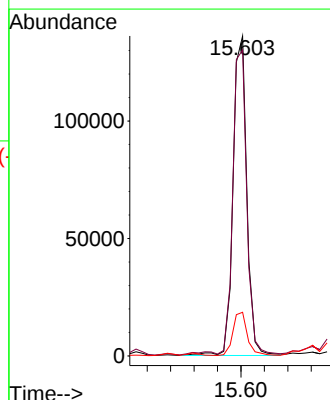
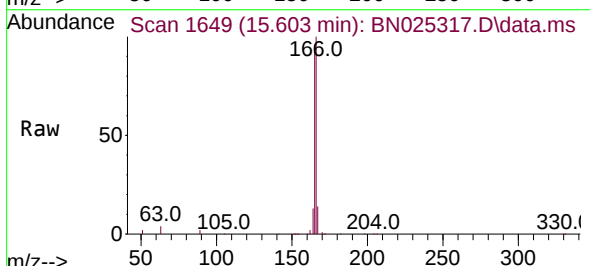
Tgt Ion:166 Resp: 221092

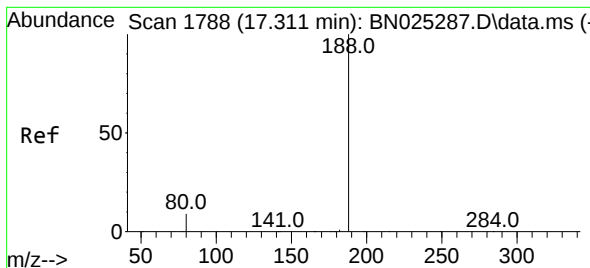
Ion Ratio Lower Upper

166 100

165 96.2 79.0 118.4

167 14.3 10.3 15.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN025317.D

Acq: 06 May 2023 15:56

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023

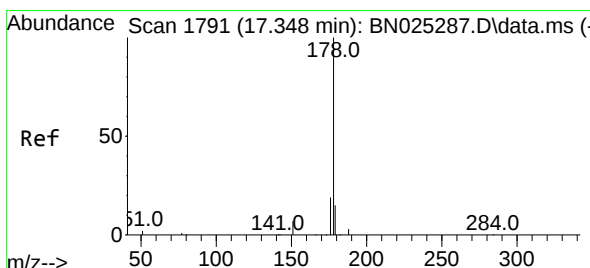
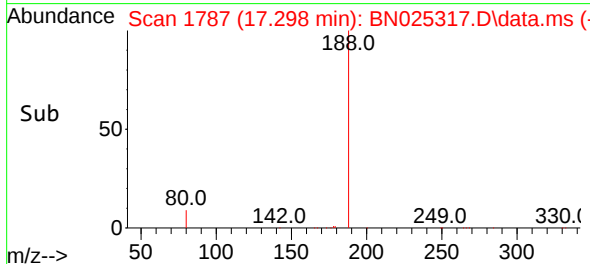
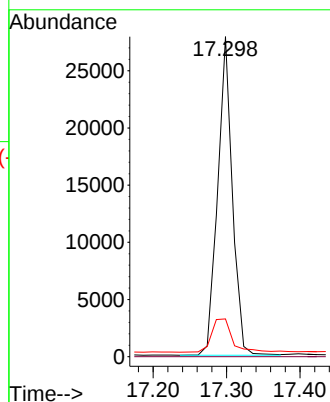
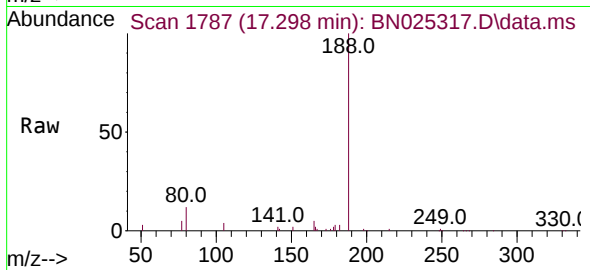
Tgt Ion:188 Resp: 38662
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 11.8 8.0 12.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/08/2023

Supervised By :Jagrut Upadhyay 05/08/2023



#25

Phenanthrene

Concen: 22.979 ng

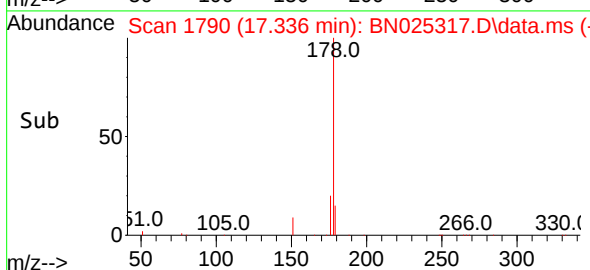
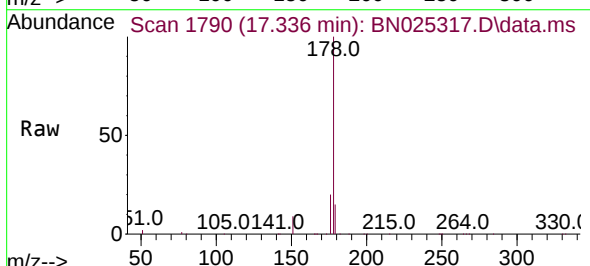
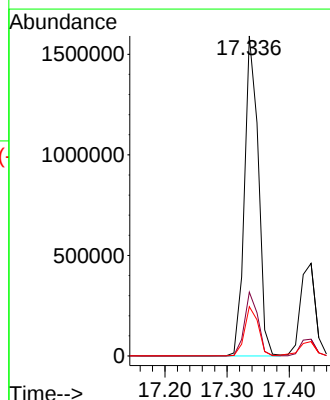
RT: 17.336 min Scan# 1790

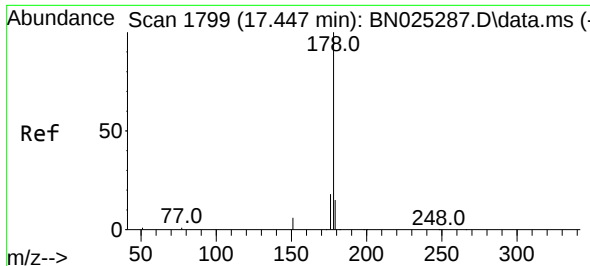
Delta R.T. -0.012 min

Lab File: BN025317.D

Acq: 06 May 2023 15:56

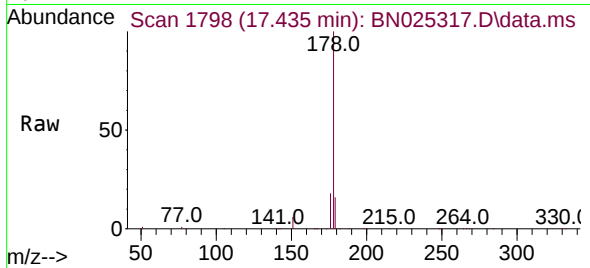
Tgt Ion:178 Resp: 2458071
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.5 23.3
 179 15.5 12.4 18.6





#26
 Anthracene
 Concen: 7.678 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN025317.D
 Acq: 06 May 2023 15:56

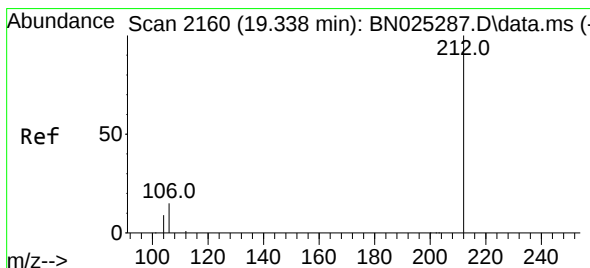
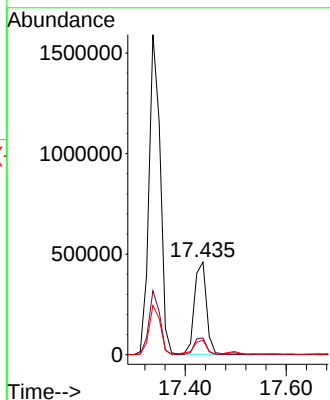
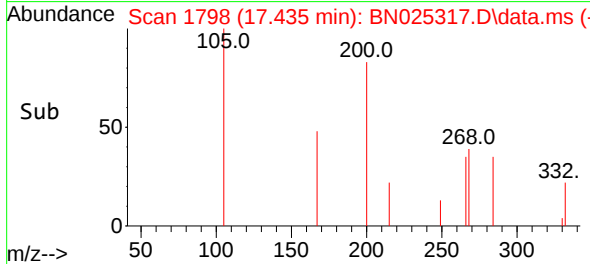
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023



Tgt Ion:178 Resp: 769392
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 15.6 12.0 18.0

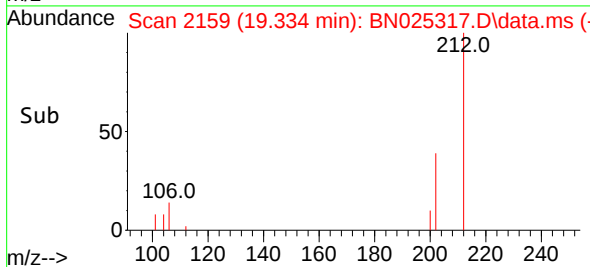
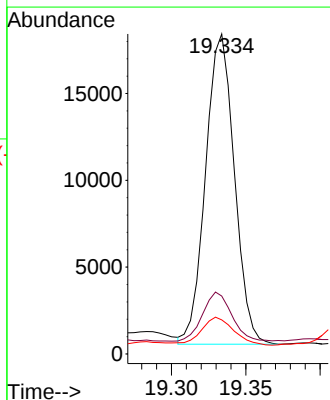
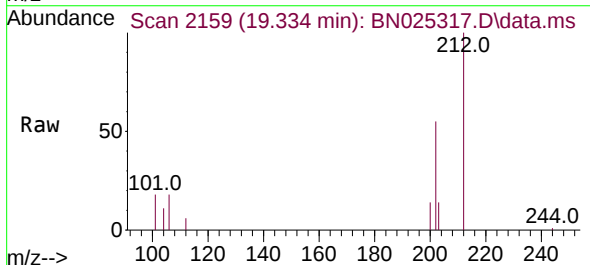
Manual Integrations
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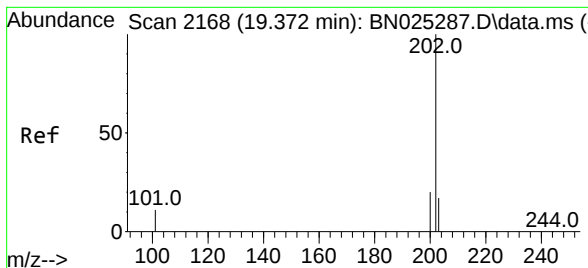
Reviewed By :Christian Giraldo 05/08/2023
 Supervised By :Jagrut Upadhyay 05/08/2023



#27
 Fluoranthene-d10
 Concen: 0.252 ng
 RT: 19.334 min Scan# 2159
 Delta R.T. -0.004 min
 Lab File: BN025317.D
 Acq: 06 May 2023 15:56

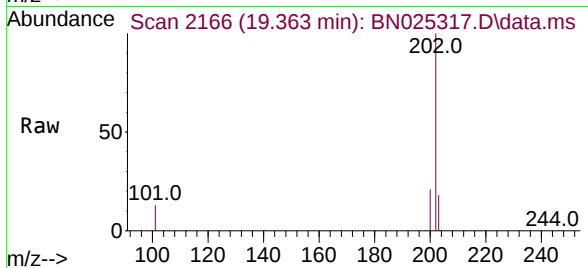
Tgt Ion:212 Resp: 24119
 Ion Ratio Lower Upper
 212 100
 106 16.0 12.6 19.0
 104 10.1 7.0 10.6





#28
Fluoranthene
Concen: 30.998 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.008 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

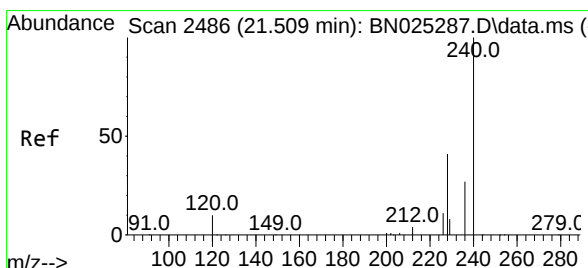
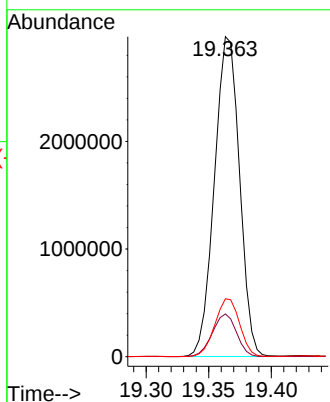
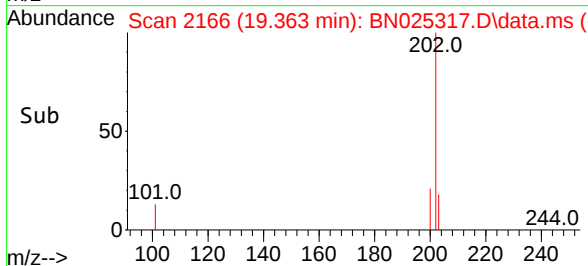
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:202 Resp: 4143134
Ion Ratio Lower Upper
202 100
101 12.8 9.8 14.8
203 17.8 13.5 20.3

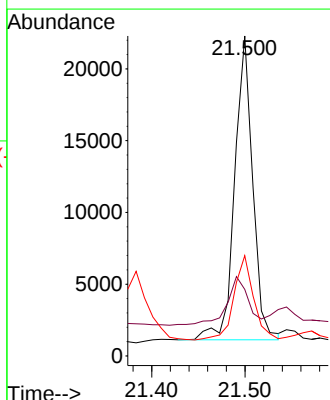
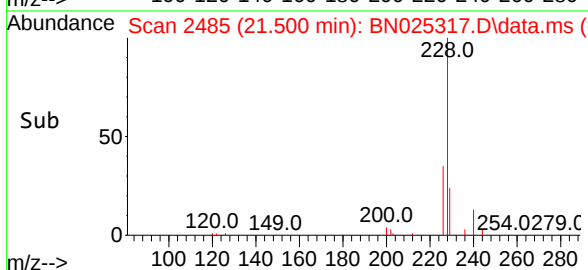
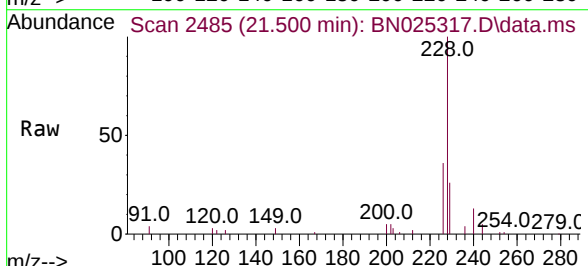
Manual Integrations
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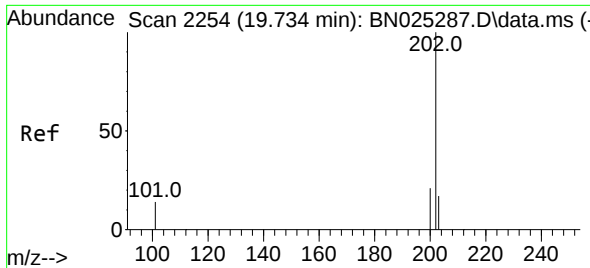
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.500 min Scan# 2485
Delta R.T. -0.009 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

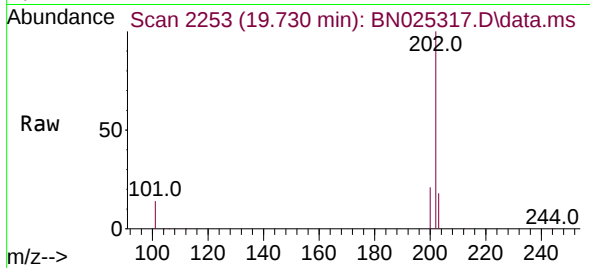
Tgt Ion:240 Resp: 28560
Ion Ratio Lower Upper
240 100
120 20.8 10.3 15.5#
236 31.3 22.3 33.5





#30
Pyrene
Concen: 34.917 ng
RT: 19.730 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

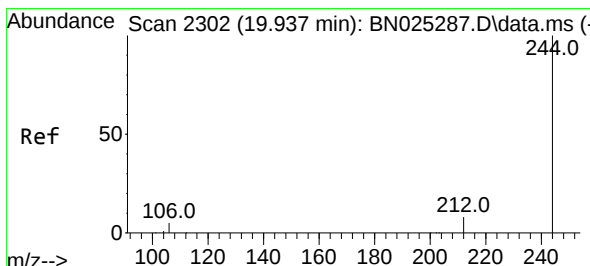
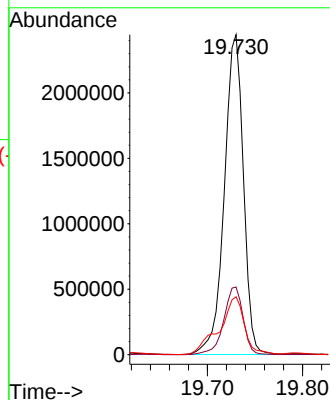
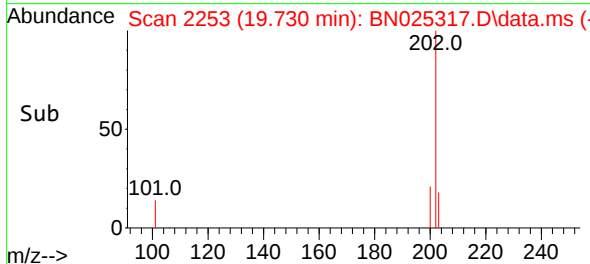
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:202 Resp: 3409104
Ion Ratio Lower Upper
202 100
200 21.5 16.8 25.2
203 23.6 14.4 21.6

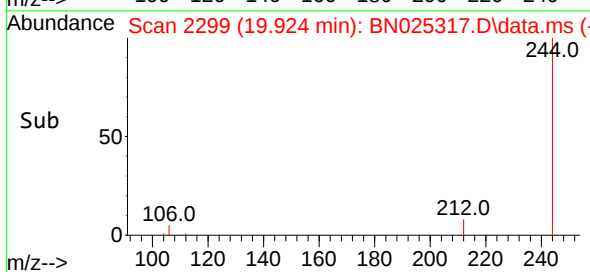
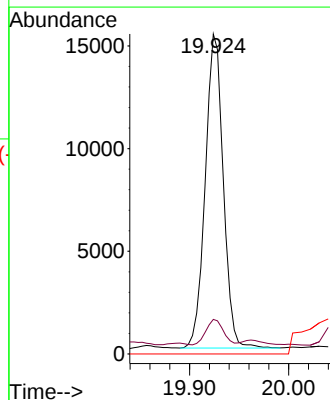
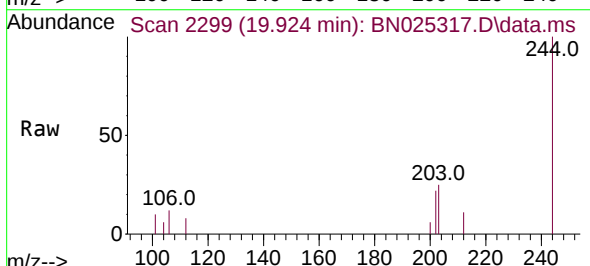
Manual Integrations
APPROVED

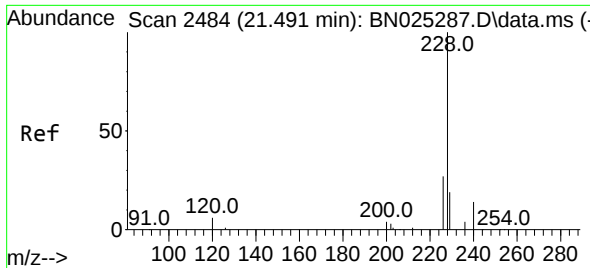
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#31
Terphenyl-d14
Concen: 0.336 ng
RT: 19.924 min Scan# 2299
Delta R.T. -0.013 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

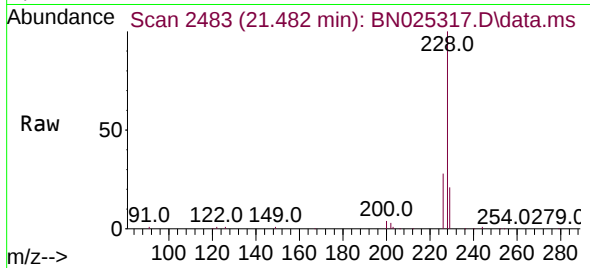
Tgt Ion:244 Resp: 19339
Ion Ratio Lower Upper
244 100
212 10.8 7.1 10.7#
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 18.230 ng
RT: 21.482 min Scan# 2483
Delta R.T. -0.009 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

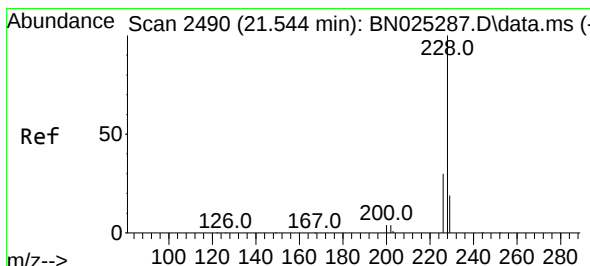
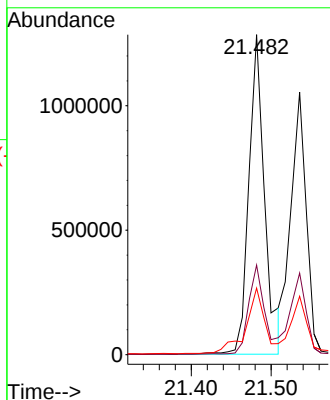
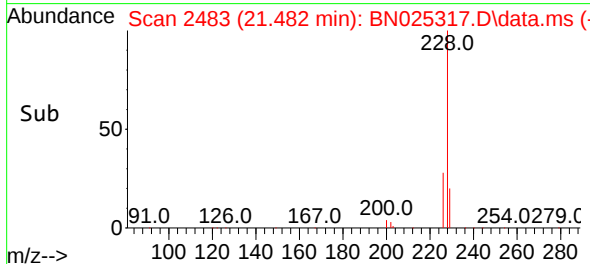
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



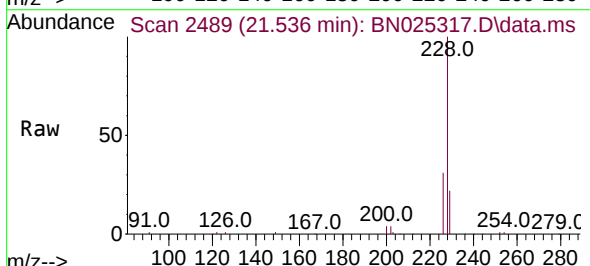
Tgt Ion:228 Resp: 175985
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 20.8 16.2 24.2

Manual Integrations
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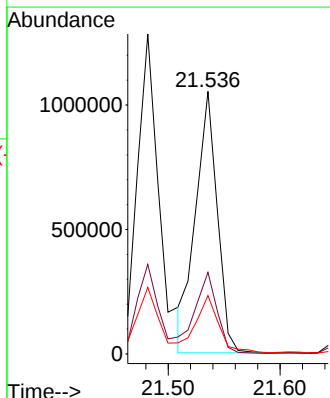
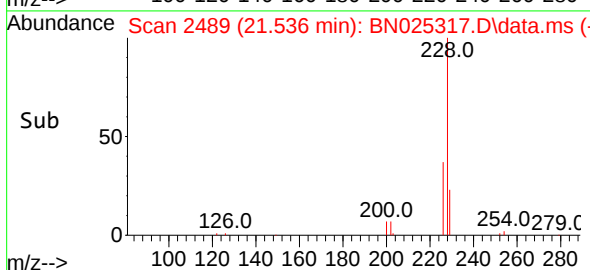
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

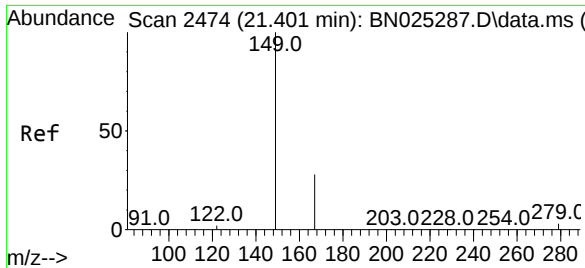


#33
Chrysene
Concen: 14.730 ng
RT: 21.536 min Scan# 2489
Delta R.T. -0.009 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56



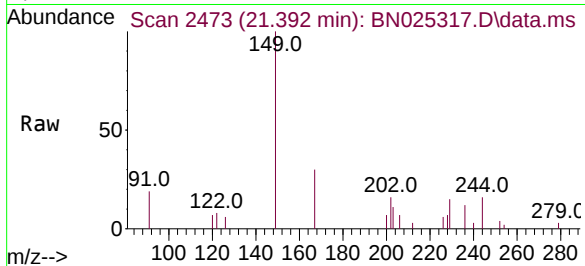
Tgt Ion:228 Resp: 1415374
Ion Ratio Lower Upper
228 100
226 31.1 24.6 36.8
229 22.3 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.484 ng
RT: 21.392 min Scan# 2473
Delta R.T. -0.009 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

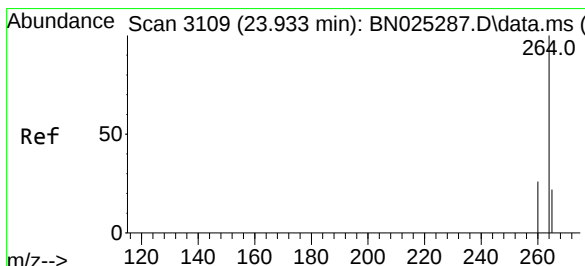
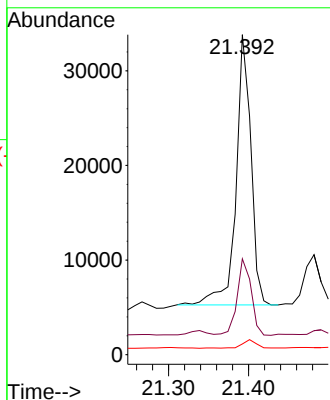
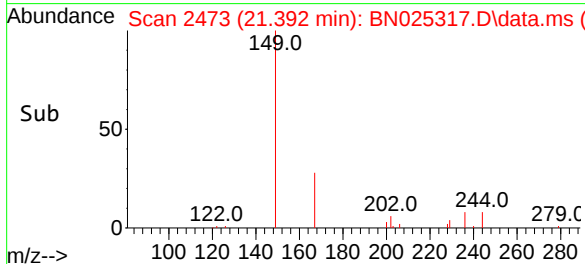
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:149 Resp: 3669
Ion Ratio Lower Upper
149 100
167 26.6 22.2 33.4
279 3.0 2.6 4.0

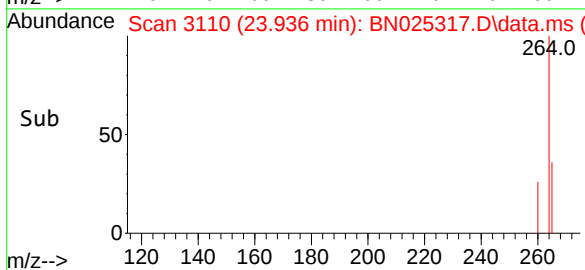
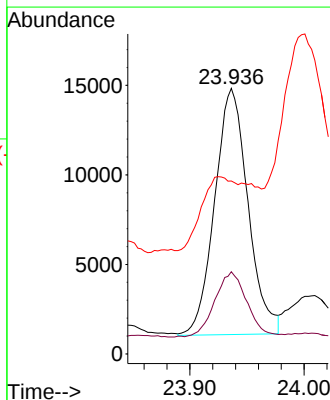
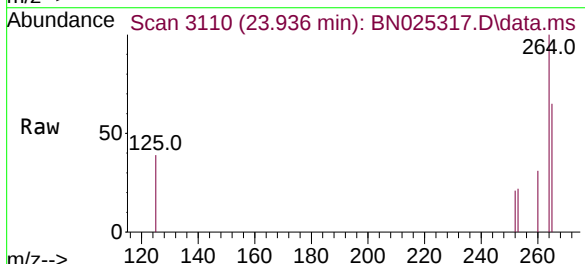
Manual Integrations
APPROVED

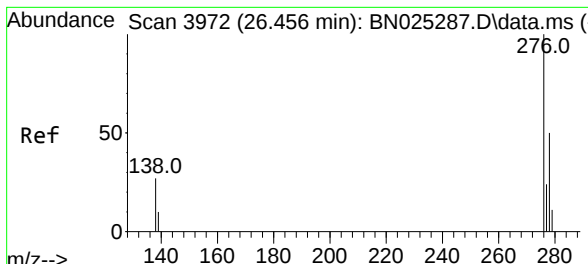
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.936 min Scan# 3110
Delta R.T. 0.003 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

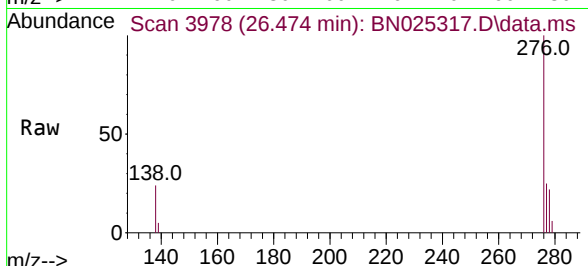
Tgt Ion:264 Resp: 27851
Ion Ratio Lower Upper
264 100
260 31.0 21.5 32.3
265 65.1 46.2 69.4





#36
 Indeno(1,2,3-cd)pyrene
 Concen: 6.106 ng
 RT: 26.474 min Scan# 3978
 Delta R.T. 0.018 min
 Lab File: BN025317.D
 Acq: 06 May 2023 15:56

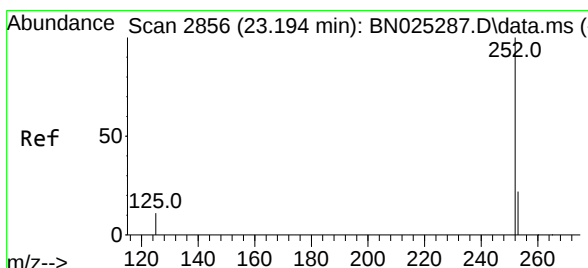
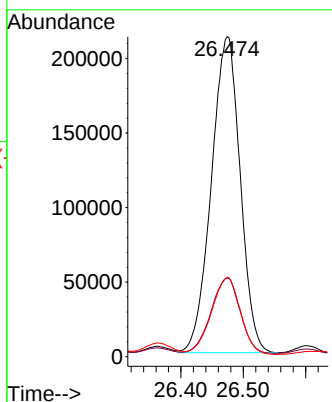
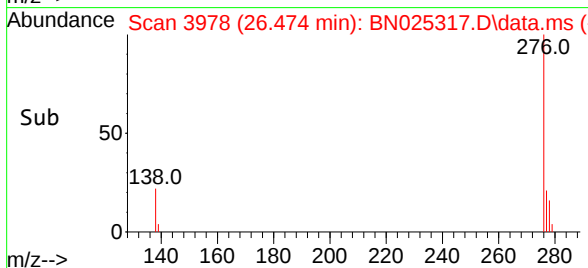
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023



Tgt Ion:276 Resp: 681790
 Ion Ratio Lower Upper
 276 100
 138 24.1 22.5 33.7
 277 24.6 19.8 29.6

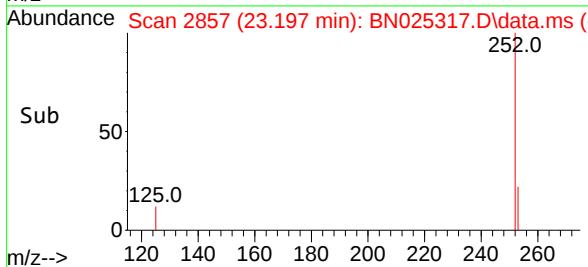
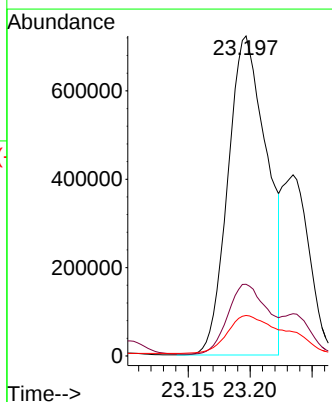
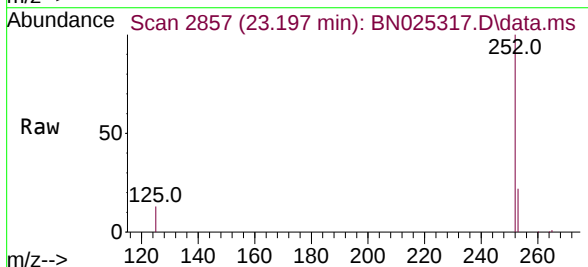
Manual Integrations
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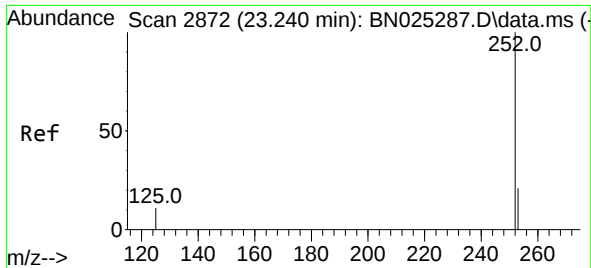
Reviewed By :Christian Giraldo 05/08/2023
 Supervised By :Jagrut Upadhyay 05/08/2023



#37
 Benzo(b)fluoranthene
 Concen: 17.894 ng m
 RT: 23.197 min Scan# 2857
 Delta R.T. 0.003 min
 Lab File: BN025317.D
 Acq: 06 May 2023 15:56

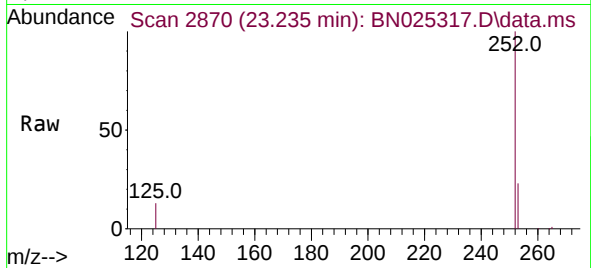
Tgt Ion:252 Resp: 1579770
 Ion Ratio Lower Upper
 252 100
 253 22.4 20.8 31.2
 125 12.7 13.4 20.2#





#38
Benzo(k)fluoranthene
Concen: 6.680 ng m
RT: 23.235 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

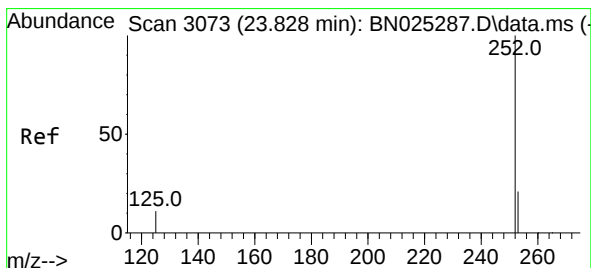
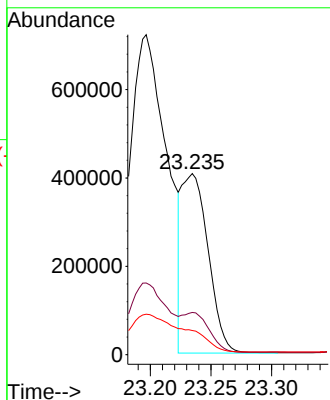
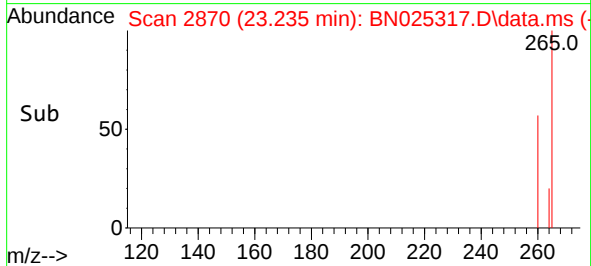
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:252 Resp: 617370
Ion Ratio Lower Upper
252 100
253 23.3 20.6 30.8
125 13.4 13.1 19.7

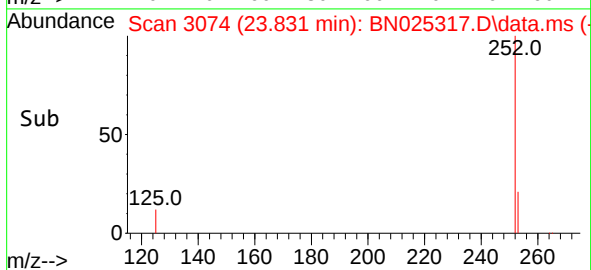
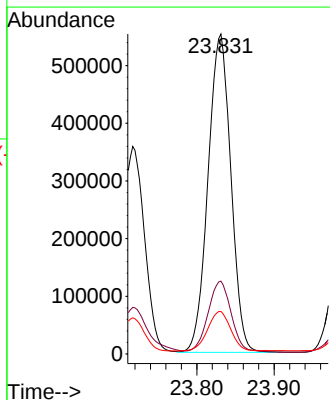
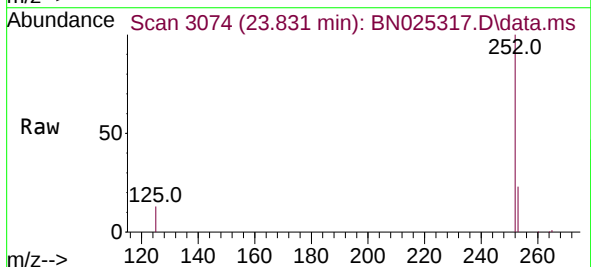
Manual Integrations
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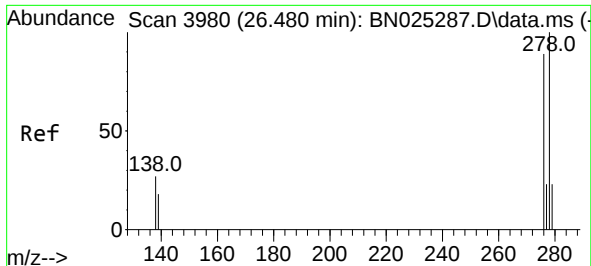
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#39
Benzo(a)pyrene
Concen: 12.538 ng m
RT: 23.831 min Scan# 3074
Delta R.T. 0.003 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

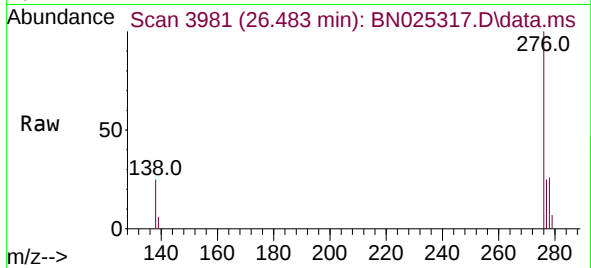
Tgt Ion:252 Resp: 1133953
Ion Ratio Lower Upper
252 100
253 22.8 21.4 32.0
125 13.3 15.4 23.2#





#40
Dibenzo(a,h)anthracene
Concen: 2.033 ng
RT: 26.483 min Scan# 3980
Delta R.T. 0.003 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

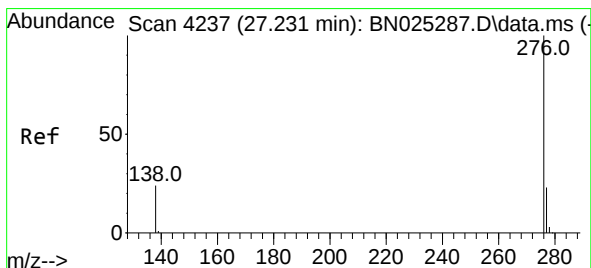
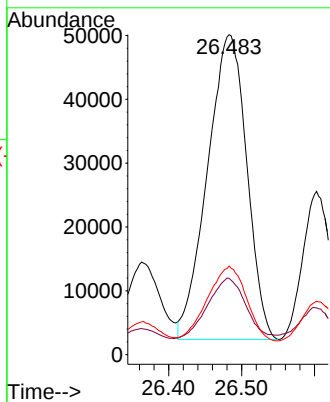
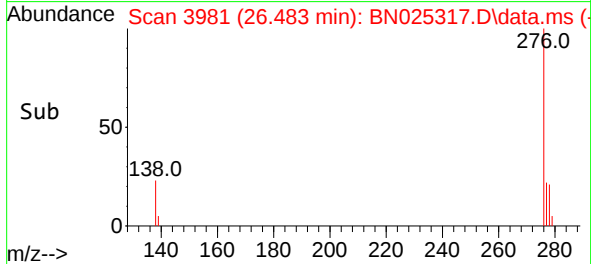
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:278 Resp: 17923
Ion Ratio Lower Upper
278 100
139 23.9 17.6 26.4
279 27.7 21.6 32.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#41
Benzo(g,h,i)perylene
Concen: 6.255 ng
RT: 27.258 min Scan# 4246
Delta R.T. 0.026 min
Lab File: BN025317.D
Acq: 06 May 2023 15:56

Tgt Ion:276 Resp: 605656
Ion Ratio Lower Upper
276 100
277 24.2 20.1 30.1
138 25.2 21.0 31.6

