

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025343.D
 Acq On : 08 May 2023 21:22
 Operator : CG/JU
 Sample : 02588-10DL 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-0-3-05022023DL

Quant Time: May 09 04:04:32 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 18:27:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	7797	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	24573	0.400	ng	0.00
13) Acenaphthene-d10	14.544	164	14929	0.400	ng	0.00
19) Phenanthrene-d10	17.299	188	32450	0.400	ng	0.00
29) Chrysene-d12	21.491	240	31699	0.400	ng	# 0.00
35) Perylene-d12	23.925	264	29413	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	423	0.022	ng	0.00
5) Phenol-d6	7.095	99	510	0.021	ng	0.02
8) Nitrobenzene-d5	9.127	82	331	0.016	ng	0.04
11) 2-Methylnaphthalene-d10	12.313	152	832	0.025	ng	0.00
14) 2,4,6-Tribromophenol	16.057	330	173	0.023	ng	0.00
15) 2-Fluorobiphenyl	13.176	172	1267	0.025	ng	0.00
27) Fluoranthene-d10	19.330	212	2034	0.025	ng	0.00
31) Terphenyl-d14	19.924	244	1996	0.031	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.761	128	4502	0.071	ng	# 90
12) 2-Methylnaphthalene	12.389	142	1852	0.042	ng	# 89
16) Acenaphthylene	14.266	152	6798	0.102	ng	99
17) Acenaphthene	14.609	154	6200	0.149	ng	99
18) Fluorene	15.603	166	7352	0.129	ng	# 98
25) Phenanthrene	17.336	178	135768	1.512	ng	99
26) Anthracene	17.435	178	33415	0.397	ng	99
28) Fluoranthene	19.359	202	331909	2.959	ng	99
30) Pyrene	19.722	202	288200	2.659	ng	# 95
32) Benzo(a)anthracene	21.473	228	163844	1.529	ng	99
33) Chrysene	21.527	228	147200	1.380	ng	98
34) Bis(2-ethylhexyl)phtha...	21.392	149	9312	0.111	ng	94
36) Indeno(1,2,3-cd)pyrene	26.465	276	67454	0.572	ng	95
37) Benzo(b)fluoranthene	23.182	252	177399	1.903	ng	96
38) Benzo(k)fluoranthene	23.226	252	59056m	0.605	ng	
39) Benzo(a)pyrene	23.819	252	116853	1.223	ng	95
40) Dibenzo(a,h)anthracene	26.480	278	17089	0.184	ng	# 76
41) Benzo(g,h,i)perylene	27.252	276	65014	0.636	ng	99

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

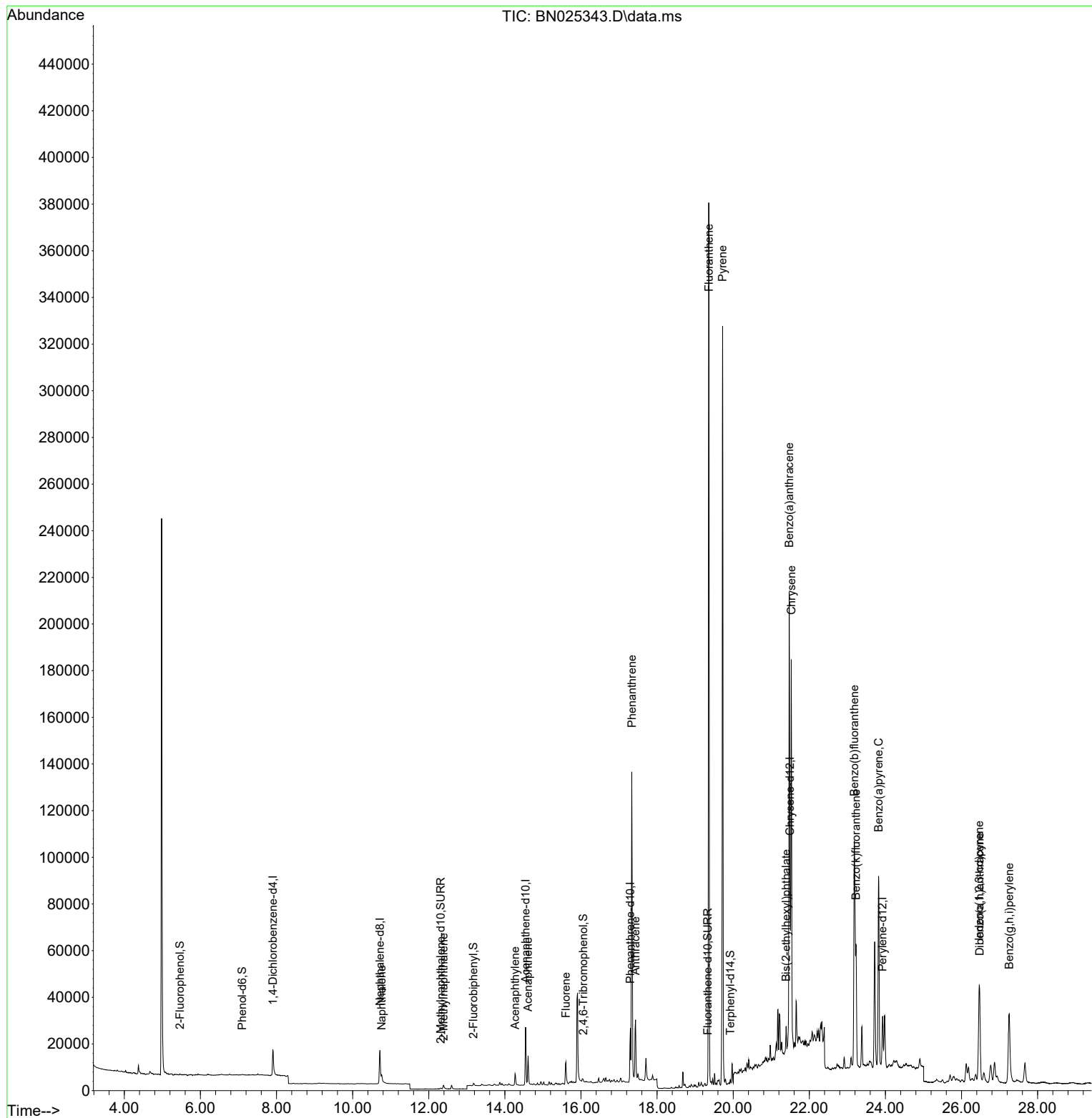
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025343.D
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ALS Vial : 16 Sample Multiplier: 1

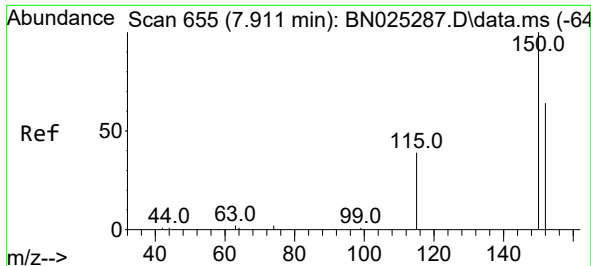
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL

Quant Time: May 09 04:04:32 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 18:27:02 2023
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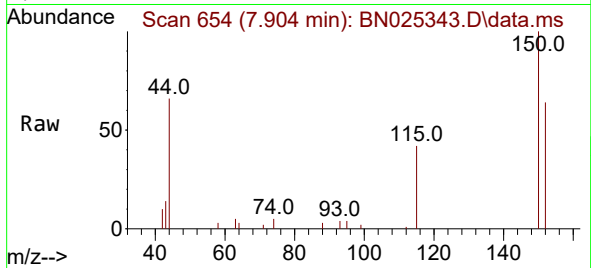
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

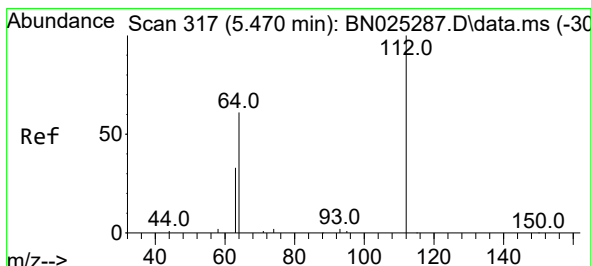
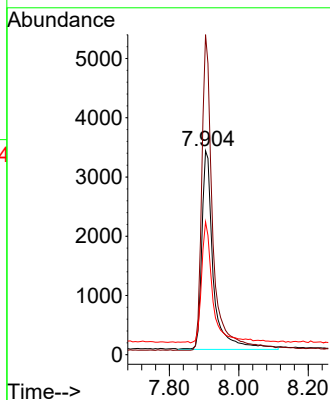
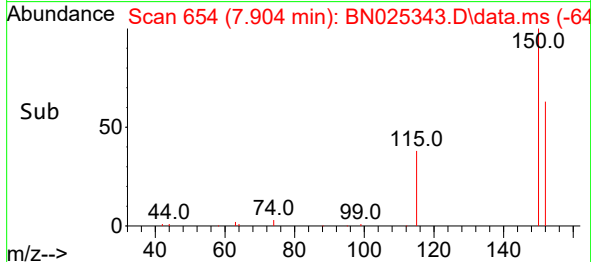
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



Tgt Ion:152 Resp: 779
Ion Ratio Lower Upper
152 100
150 157.0 123.8 185.8
115 65.2 52.9 79.3

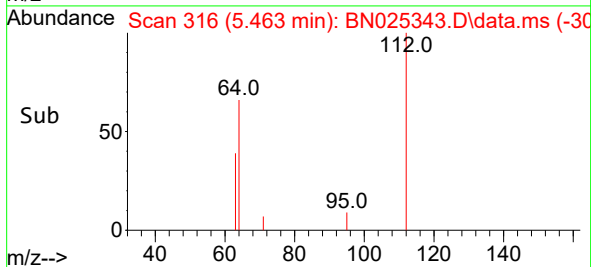
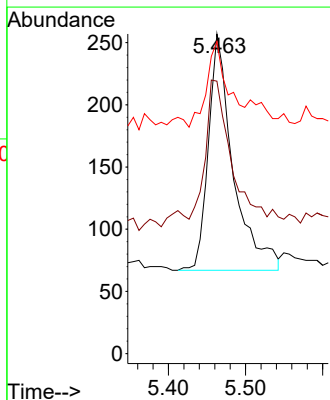
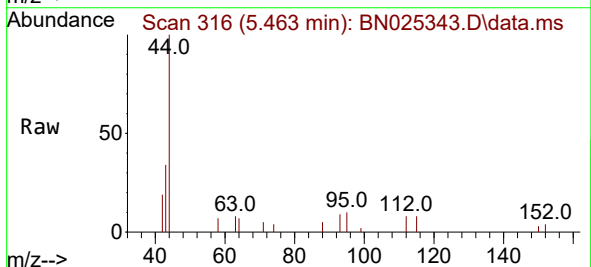
Manual Integrations
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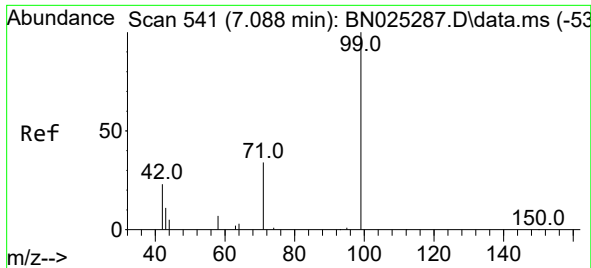
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 0.022 ng
RT: 5.463 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

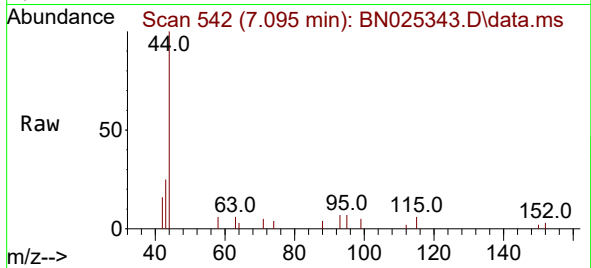
Tgt Ion:112 Resp: 423
Ion Ratio Lower Upper
112 100
64 62.9 51.5 77.3
63 31.2 27.8 41.6





#5
Phenol-d6
Concen: 0.021 ng
RT: 7.095 min Scan# 541
Delta R.T. 0.022 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

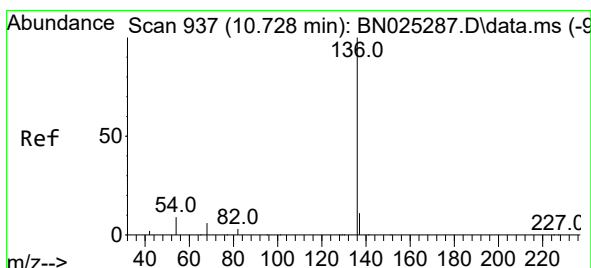
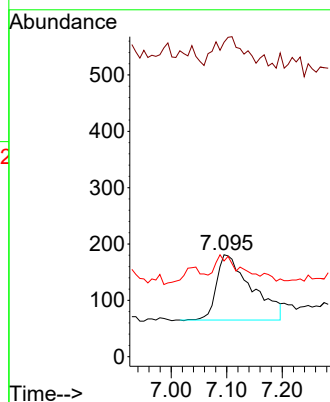
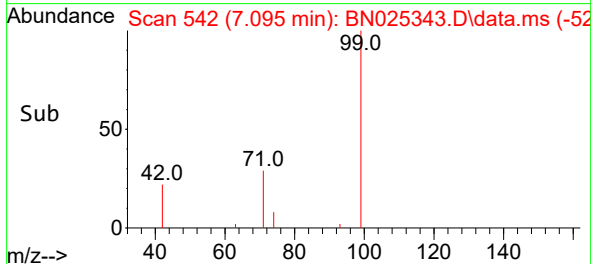
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



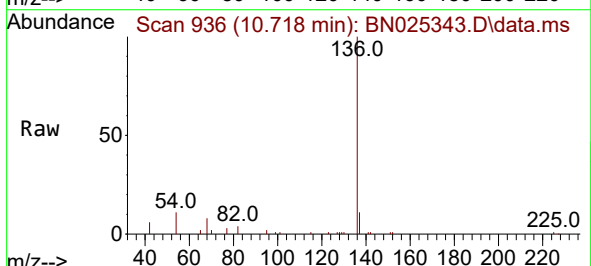
Tgt Ion: 99 Resp: 510
Ion Ratio Lower Upper
99 100
42 0.0 22.0 33.0
71 21.4 28.7 43.1

Manual Integrations
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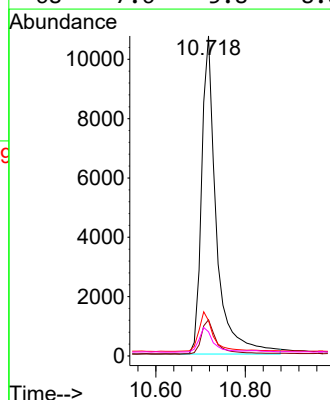
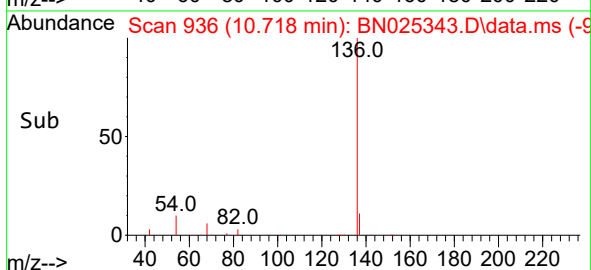
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

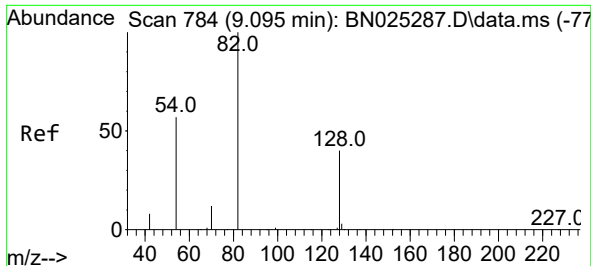


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22



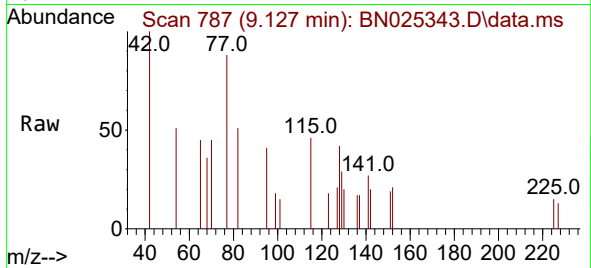
Tgt Ion:136 Resp: 24573
Ion Ratio Lower Upper
136 100
137 11.3 9.4 14.2
54 11.0 8.5 12.7
68 7.6 5.8 8.8





#8
Nitrobenzene-d5
Concen: 0.016 ng
RT: 9.127 min Scan# 71
Delta R.T. 0.043 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

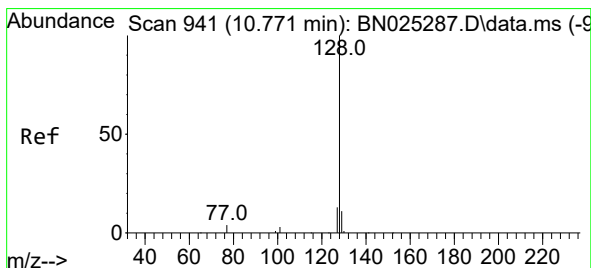
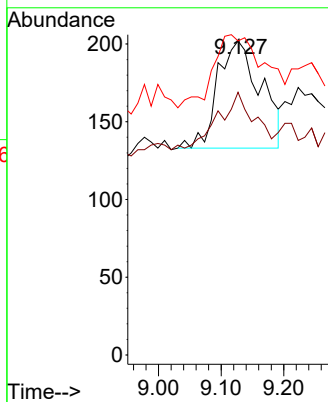
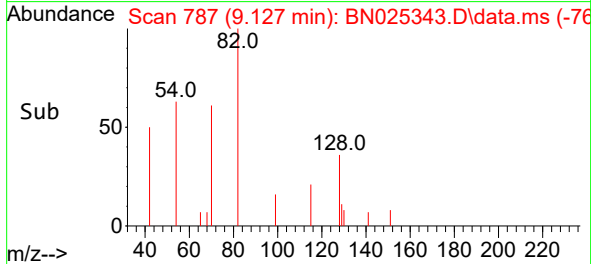
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



Tgt Ion: 82 Resp: 33
Ion Ratio Lower Upper
82 100
128 83.7 35.3 52.9#
54 100.0 48.7 73.1#

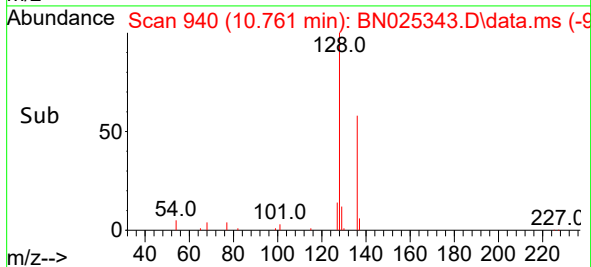
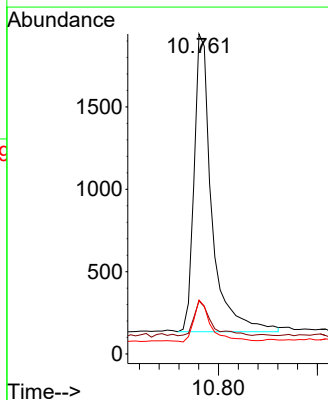
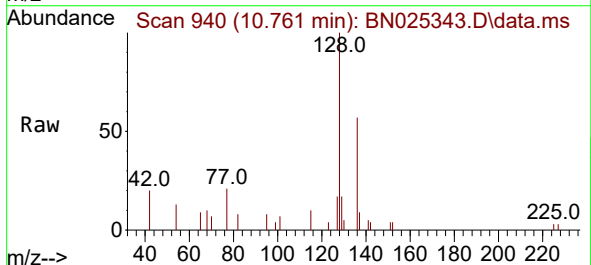
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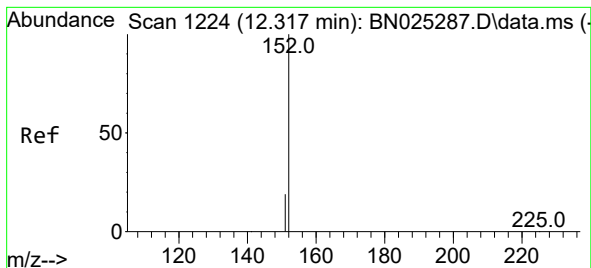
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.071 ng
RT: 10.761 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

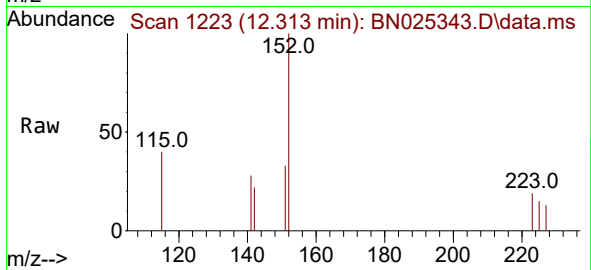
Tgt Ion:128 Resp: 4502
Ion Ratio Lower Upper
128 100
129 16.6 9.4 14.2#
127 16.9 11.0 16.6#





#11
2-Methylnaphthalene-d10
Concen: 0.025 ng
RT: 12.313 min Scan# 11
Delta R.T. 0.007 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

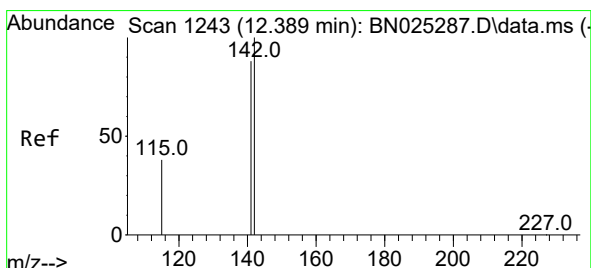
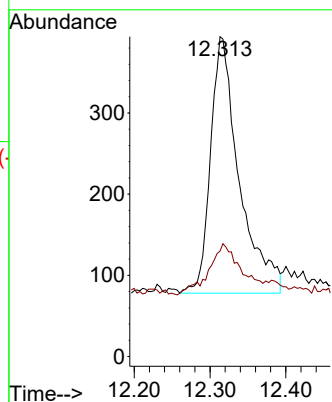
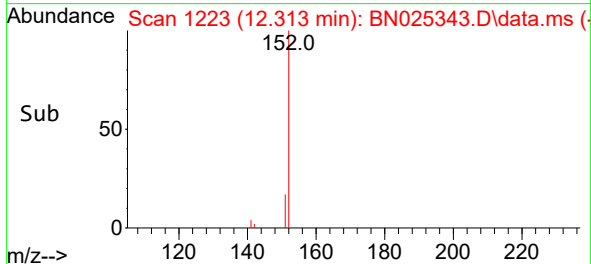
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



Tgt Ion:152 Resp: 832
Ion Ratio Lower Upper
152 100
151 22.7 16.4 24.6

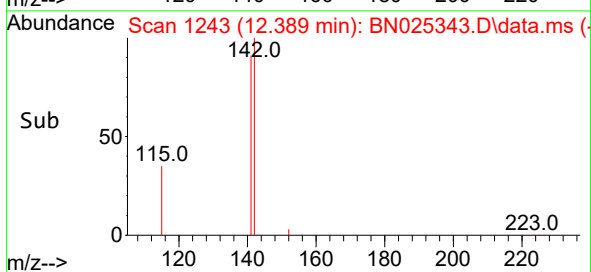
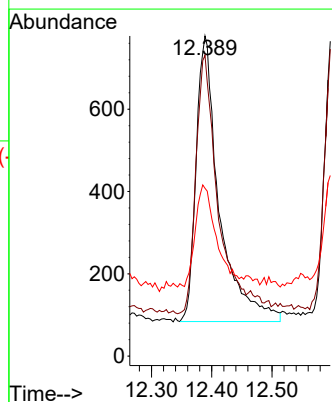
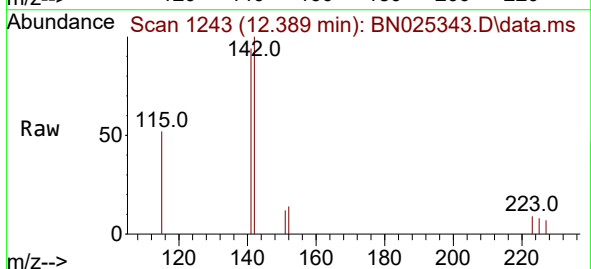
Manual Integrations
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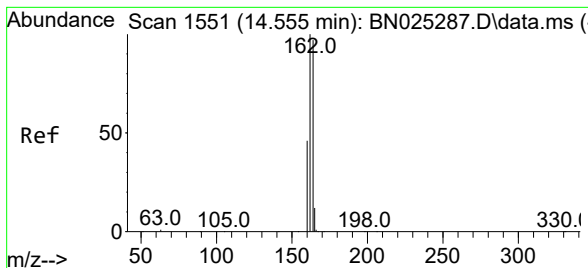
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#12
2-Methylnaphthalene
Concen: 0.042 ng
RT: 12.389 min Scan# 1243
Delta R.T. 0.007 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

Tgt Ion:142 Resp: 1852
Ion Ratio Lower Upper
142 100
141 94.0 70.5 105.7
115 52.4 31.6 47.4#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.544 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN025343.D

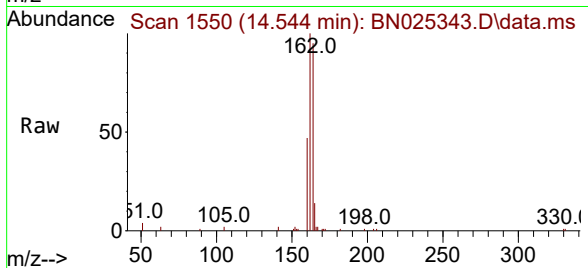
Acq: 08 May 2023 21:22

Instrument :

BNA_N

ClientSampleId :

ZONE-D-0-3-05022023DL



Tgt Ion:164 Resp: 14929

Ion Ratio Lower Upper

164 100

162 104.9 82.1 123.1

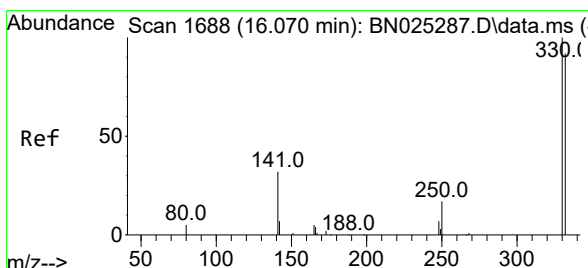
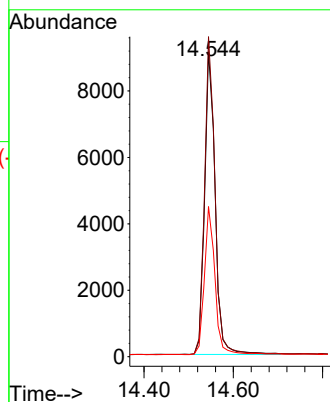
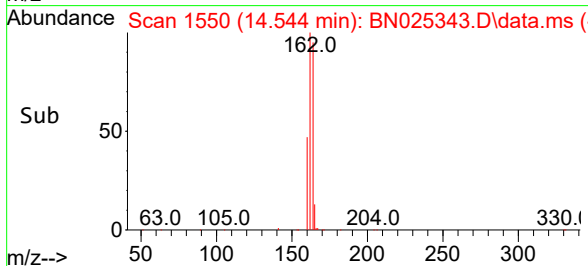
160 49.2 38.3 57.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#14

2,4,6-Tribromophenol

Concen: 0.023 ng

RT: 16.057 min Scan# 1687

Delta R.T. -0.000 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

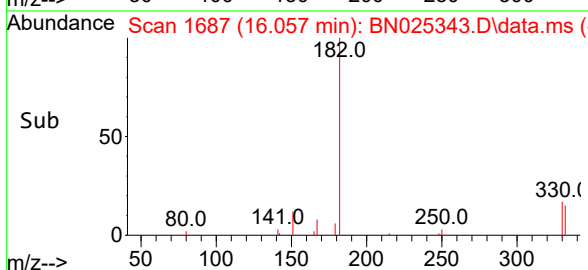
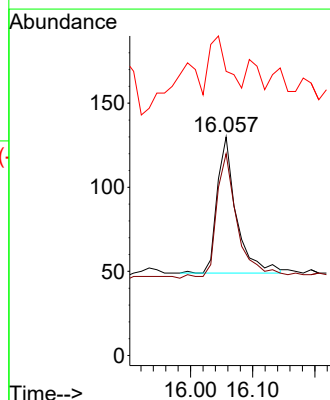
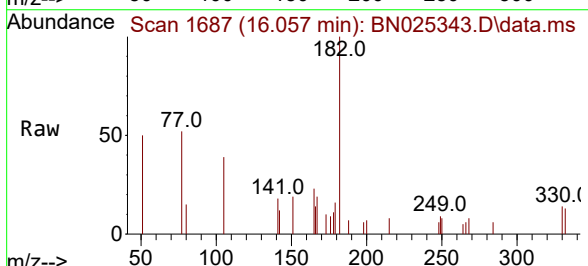
Tgt Ion:330 Resp: 173

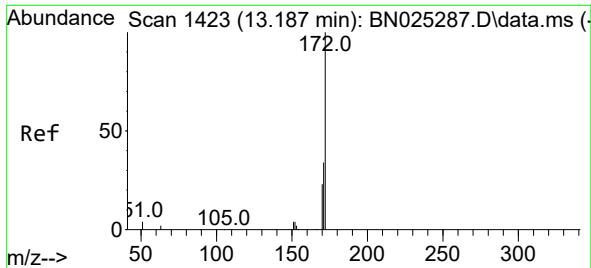
Ion Ratio Lower Upper

330 100

332 101.2 77.4 116.0

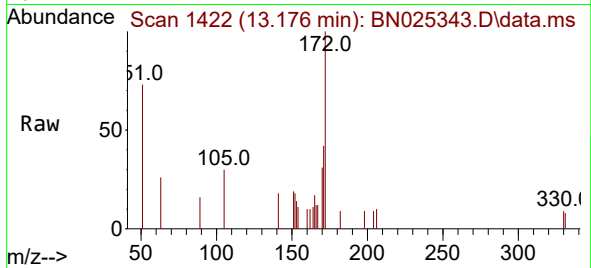
141 41.0 28.9 43.3





#15
2-Fluorobiphenyl
Concen: 0.025 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

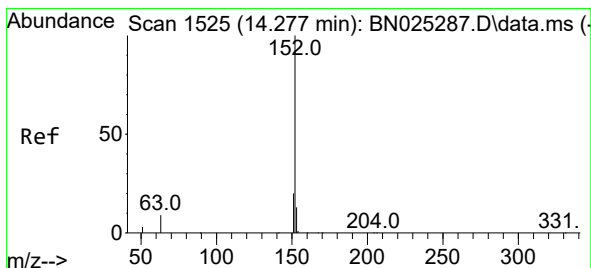
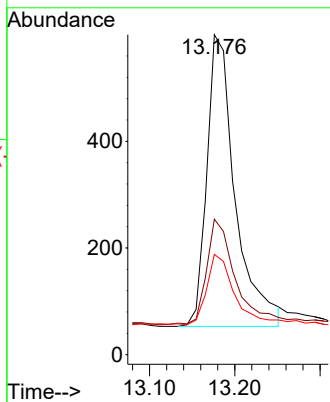
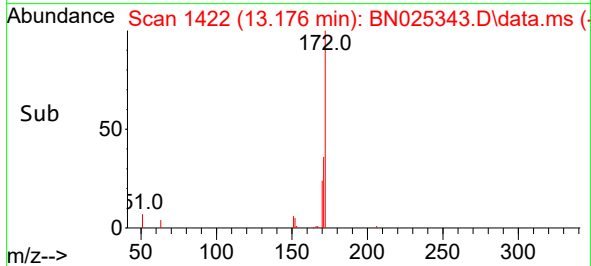
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



Tgt Ion:172 Resp: 126
Ion Ratio Lower Upper
172 100
171 42.3 27.9 41.9
170 31.3 19.0 28.4

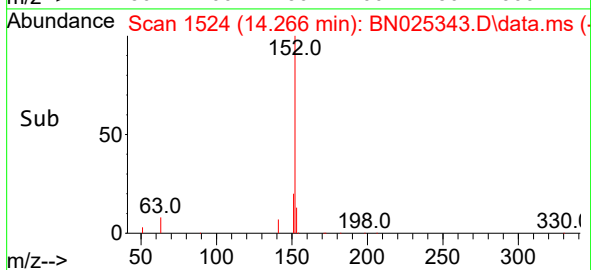
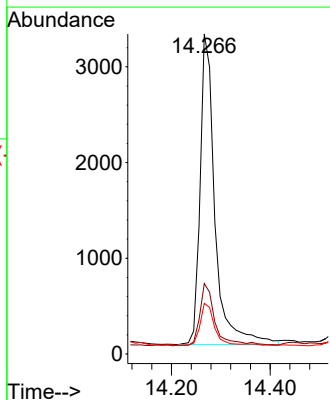
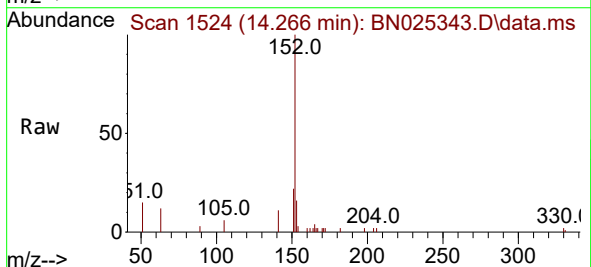
Manual Integrations
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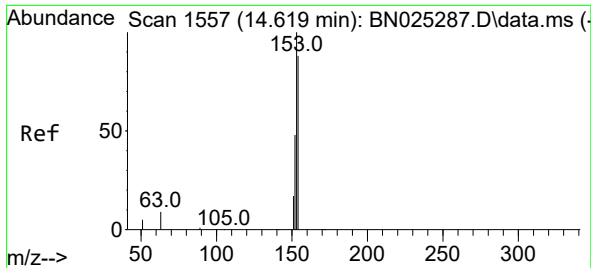
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#16
Acenaphthylene
Concen: 0.102 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

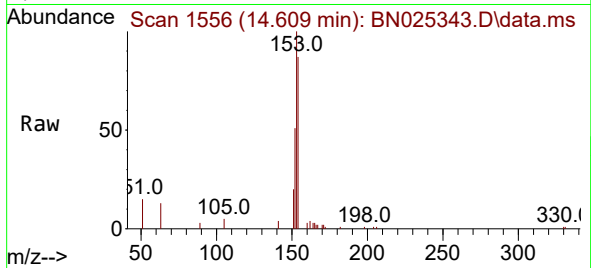
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Ion Ratio Lower Upper
152 100
151 20.9 16.1 24.1
153 13.1 10.3 15.5





#17
Acenaphthene
Concen: 0.149 ng
RT: 14.609 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

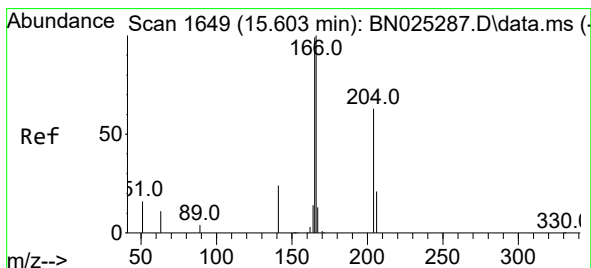
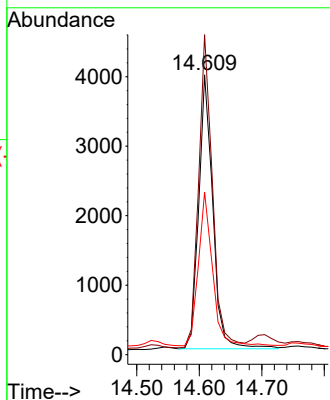
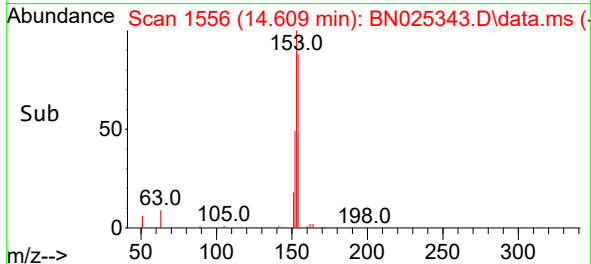
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



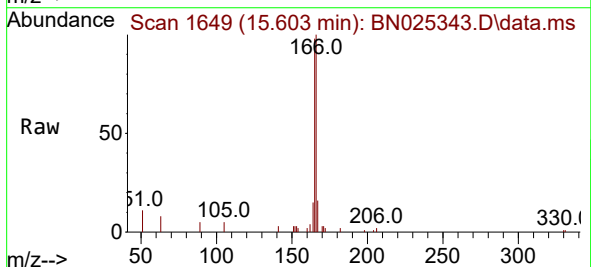
Tgt Ion:154 Resp: 6200
Ion Ratio Lower Upper
154 100
153 112.2 91.3 136.9
152 56.0 44.7 67.1

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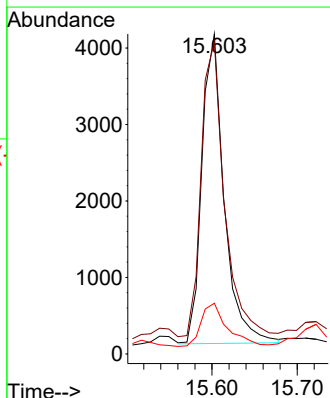
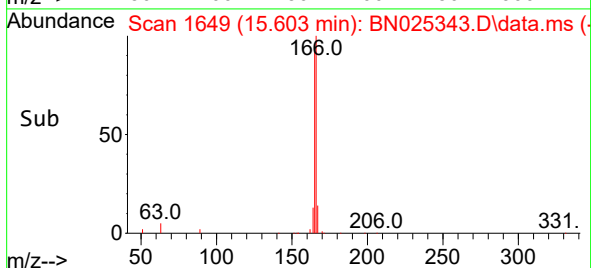
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

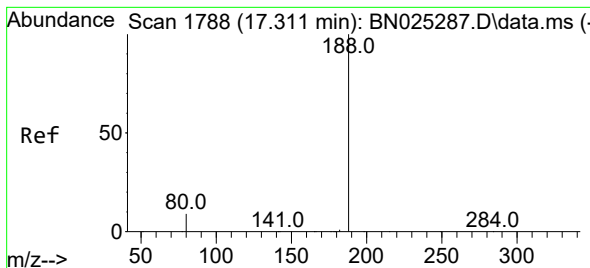


#18
Fluorene
Concen: 0.129 ng
RT: 15.603 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22



Tgt Ion:166 Resp: 7352
Ion Ratio Lower Upper
166 100
165 99.7 79.0 118.4
167 16.6 10.3 15.5#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.299 min Scan# 1788

Delta R.T. -0.000 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

Instrument :

BNA_N

ClientSampleId :

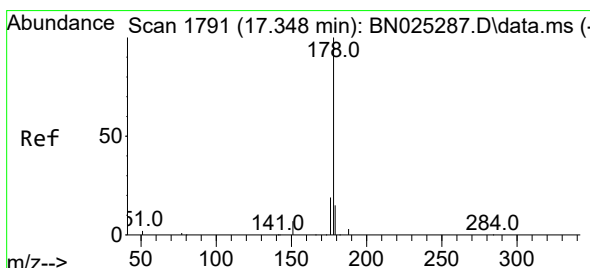
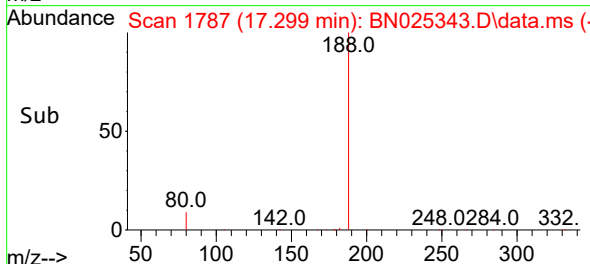
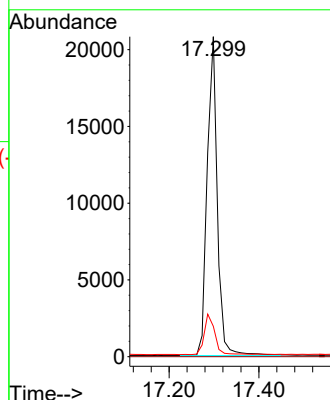
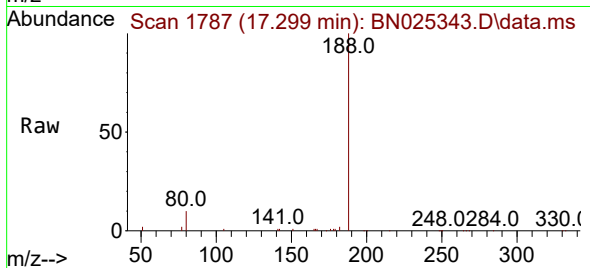
ZONE-D-0-3-05022023DL

Tgt Ion:188 Resp: 32450
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 9.5 8.0 12.0

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Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#25

Phenanthrene

Concen: 1.512 ng

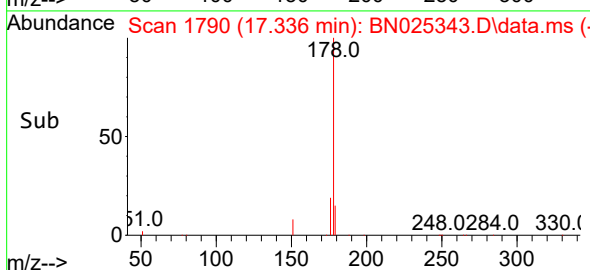
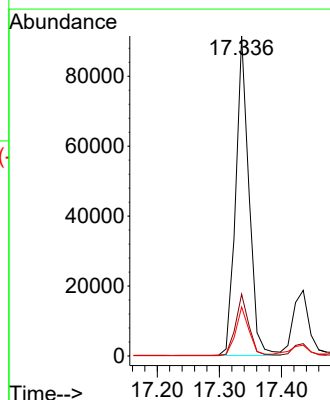
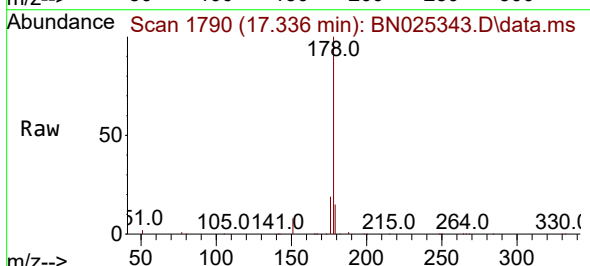
RT: 17.336 min Scan# 1790

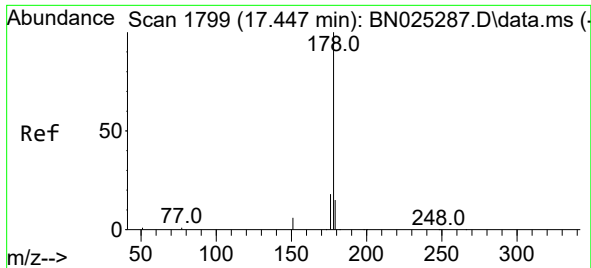
Delta R.T. -0.000 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

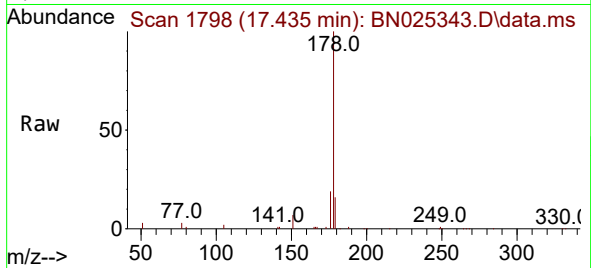
Tgt Ion:178 Resp: 135768
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.5 23.3
 179 15.2 12.4 18.6





#26
 Anthracene
 Concen: 0.397 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025343.D
 Acq: 08 May 2023 21:22

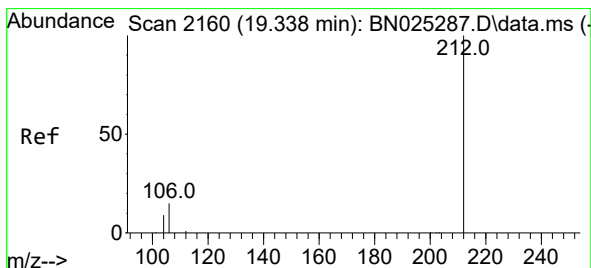
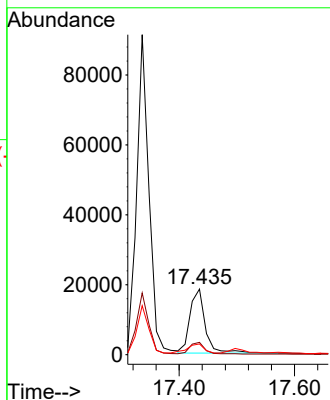
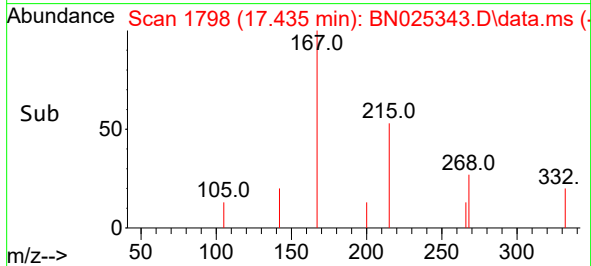
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-0-3-05022023DL



Tgt Ion:178 Resp: 3341
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.9 22.3
 179 15.2 12.0 18.0

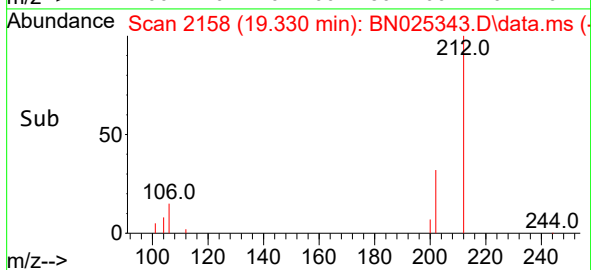
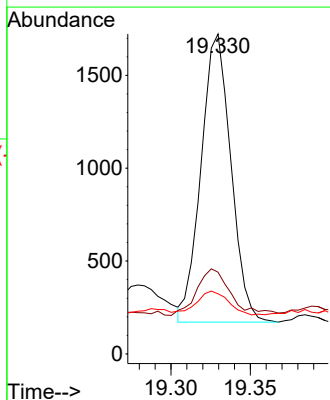
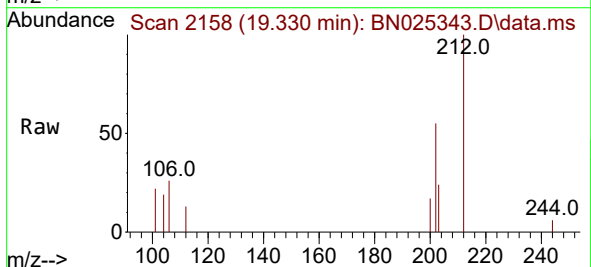
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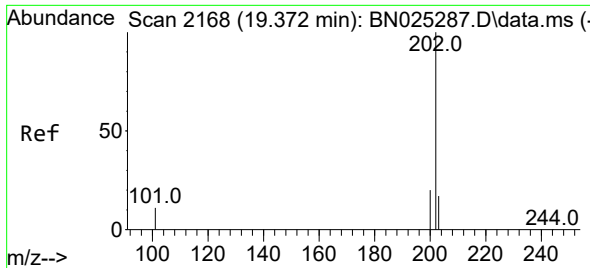
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.025 ng
 RT: 19.330 min Scan# 2158
 Delta R.T. -0.004 min
 Lab File: BN025343.D
 Acq: 08 May 2023 21:22

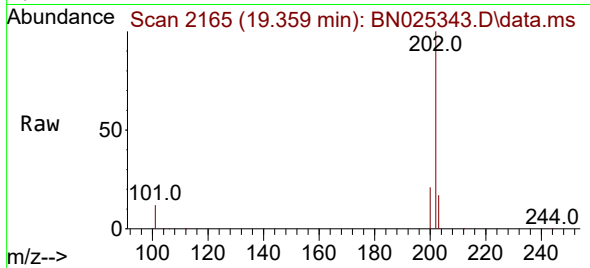
Tgt Ion:212 Resp: 2034
 Ion Ratio Lower Upper
 212 100
 106 18.5 12.6 19.0
 104 8.7 7.0 10.6





#28
Fluoranthene
Concen: 2.959 ng
RT: 19.359 min Scan# 2165
Delta R.T. -0.004 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

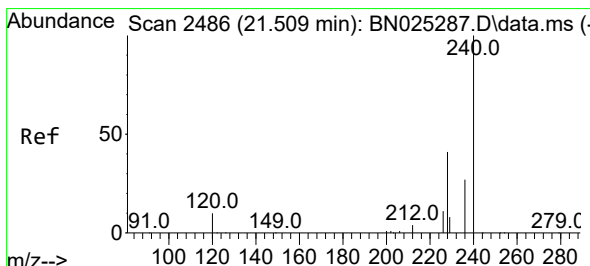
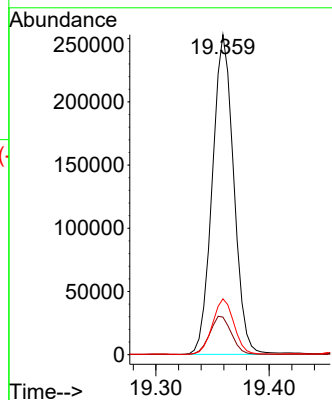
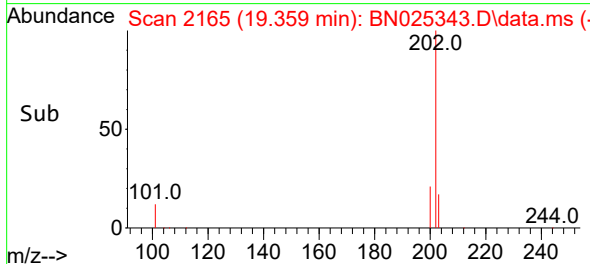
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



Tgt Ion:202 Resp: 331909
Ion Ratio Lower Upper
202 100
101 12.2 9.8 14.8
203 17.3 13.5 20.3

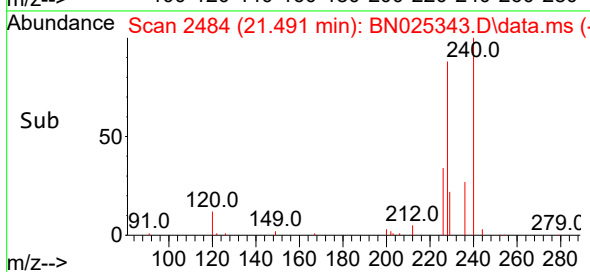
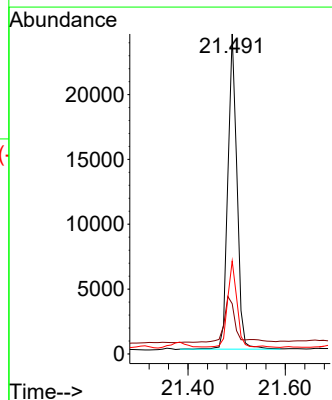
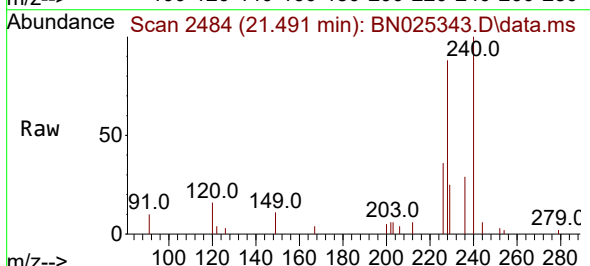
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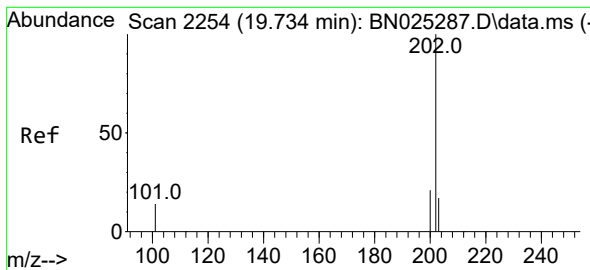
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.491 min Scan# 2484
Delta R.T. -0.009 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

Tgt Ion:240 Resp: 31699
Ion Ratio Lower Upper
240 100
120 15.7 10.3 15.5#
236 29.1 22.3 33.5





#30

Pyrene

Concen: 2.659 ng

RT: 19.722 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

Instrument :

BNA_N

ClientSampleId :

ZONE-D-0-3-05022023DL

Tgt Ion:202 Resp: 288200

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

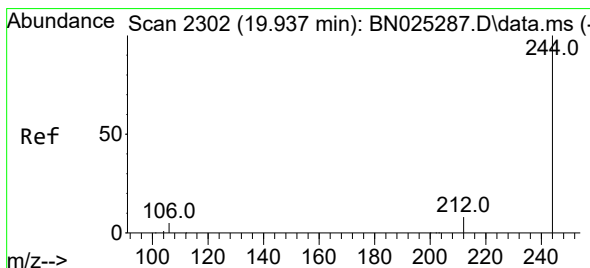
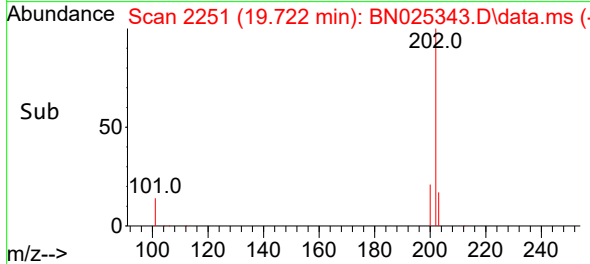
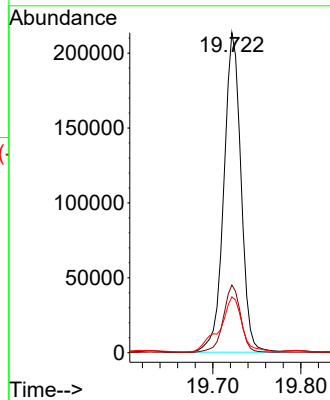
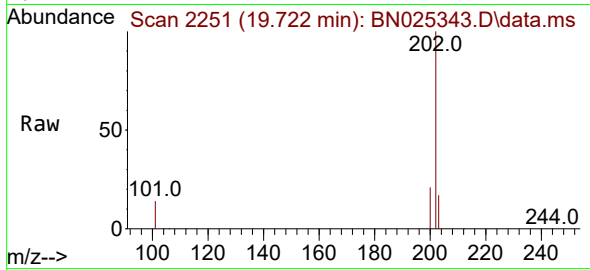
203 22.3 14.4 21.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#31

Terphenyl-d14

Concen: 0.031 ng

RT: 19.924 min Scan# 2299

Delta R.T. -0.004 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

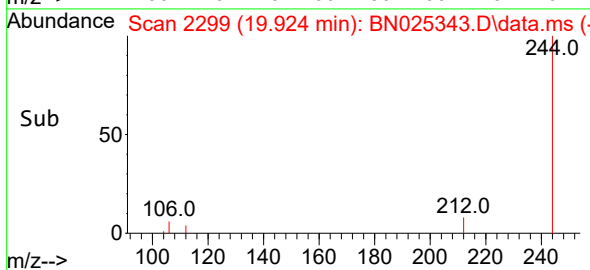
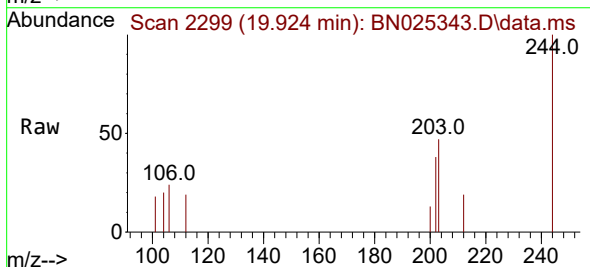
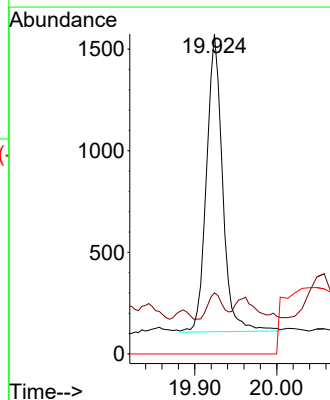
Tgt Ion:244 Resp: 1996

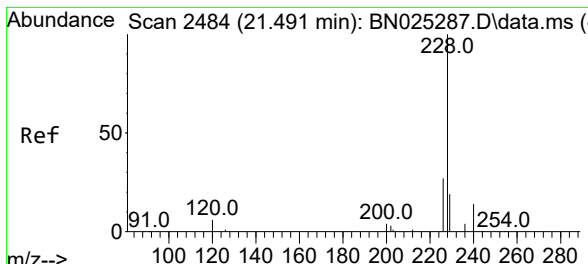
Ion Ratio Lower Upper

244 100

212 19.1 7.1 10.7#

122 0.0 0.0 0.0





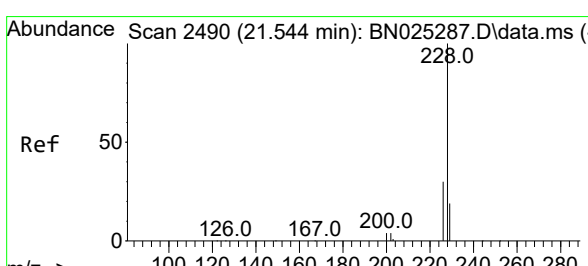
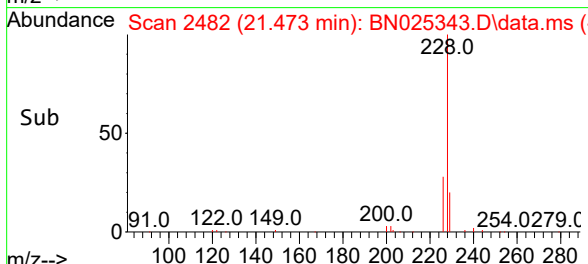
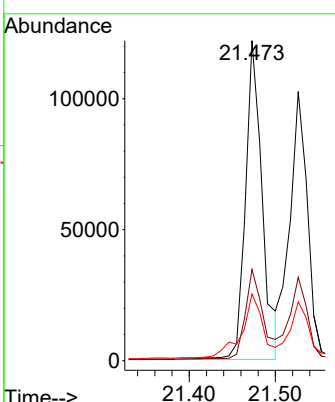
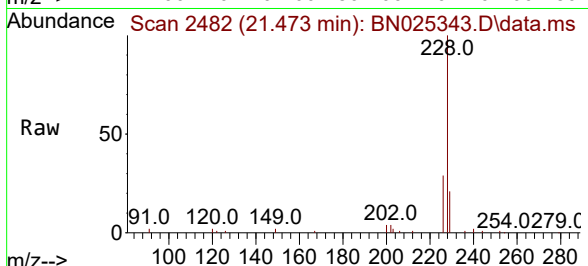
#32
Benzo(a)anthracene
Concen: 1.529 ng
RT: 21.473 min Scan# 2482
Delta R.T. -0.009 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

Instrument : BNA_N
ClientSampleId : ZONE-D-0-3-05022023DL

Tgt Ion:228 Resp: 16384

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.9	16.2	24.2

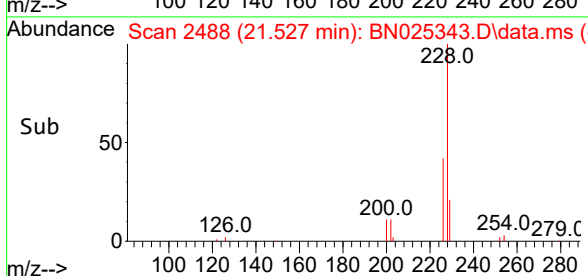
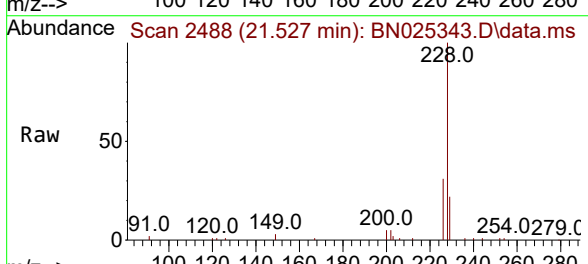
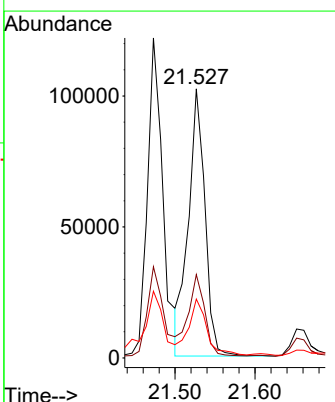
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Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

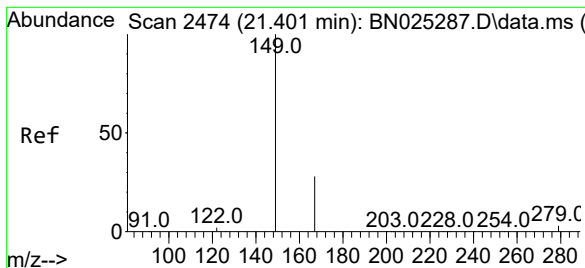


#33
Chrysene
Concen: 1.380 ng
RT: 21.527 min Scan# 2488
Delta R.T. -0.009 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

Tgt Ion:228 Resp: 147200

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	36.8
229	21.9	16.2	24.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.111 ng

RT: 21.392 min Scan# 2473

Delta R.T. -0.000 min

Lab File: BN025343.D

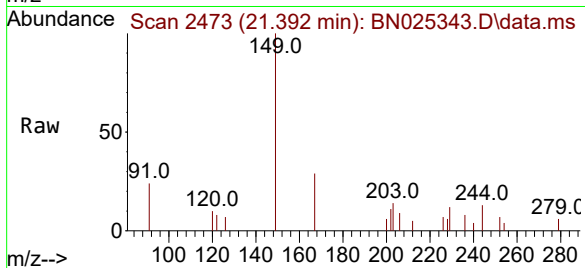
Acq: 08 May 2023 21:22

Instrument :

BNA_N

ClientSampleId :

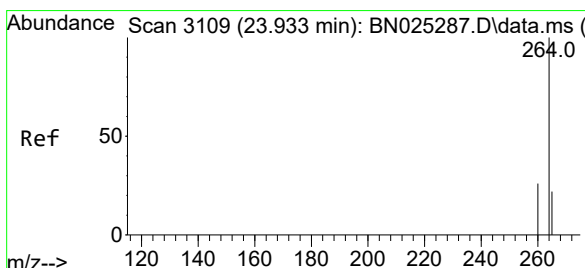
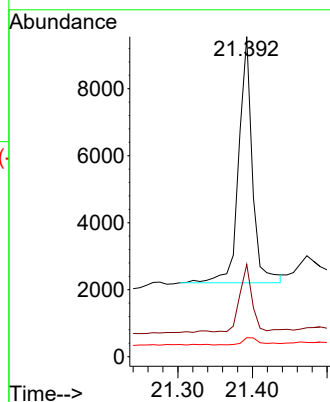
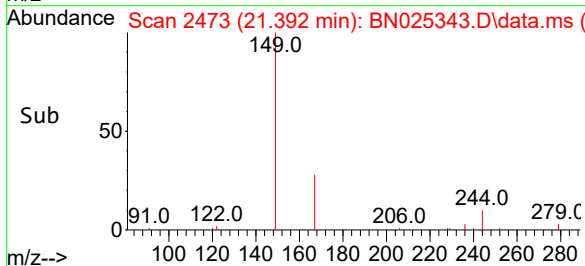
ZONE-D-0-3-05022023DL



Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.2	33.4
279	3.8	2.6	4.0

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Supervised By :Jagrut Upadhyay 05/09/2023



#35

Perylene-d12

Concen: 0.400 ng

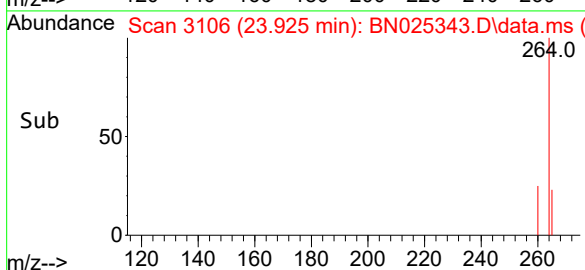
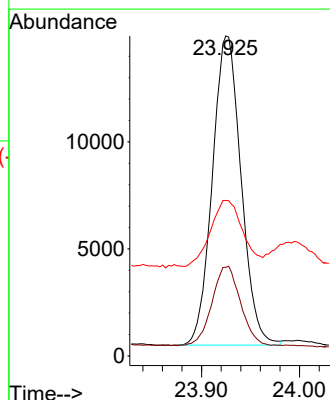
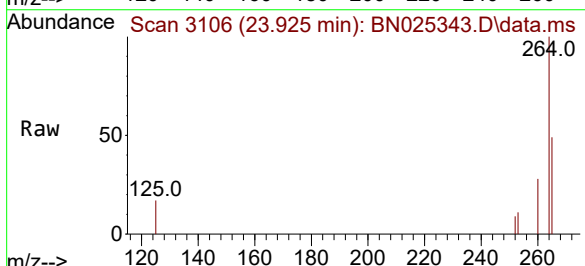
RT: 23.925 min Scan# 3106

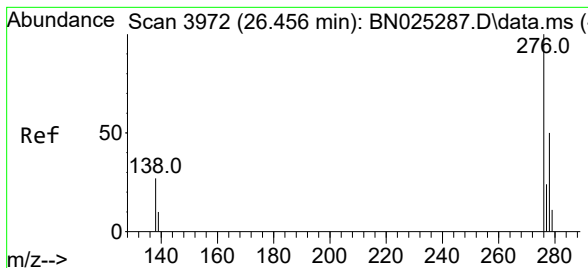
Delta R.T. -0.006 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.7	21.5	32.3
265	48.6	46.2	69.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.572 ng

RT: 26.465 min Scan# 3975

Delta R.T. 0.017 min

Lab File: BN025343.D

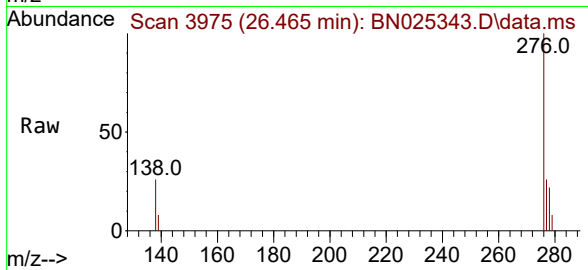
Acq: 08 May 2023 21:22

Instrument :

BNA_N

ClientSampleId :

ZONE-D-0-3-05022023DL



Tgt Ion:276 Resp: 67454

Ion Ratio Lower Upper

276 100

138 23.6 22.5 33.7

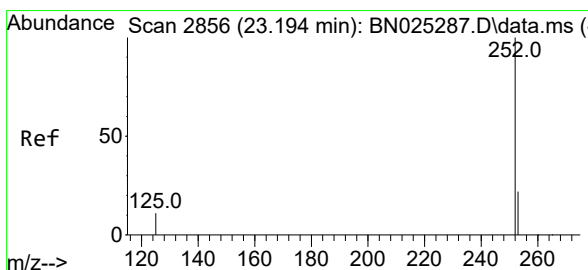
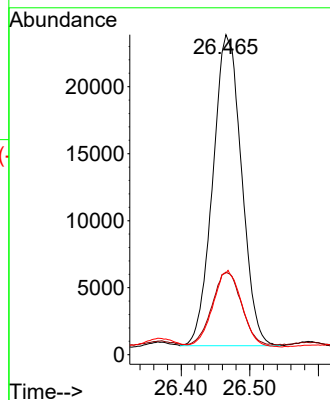
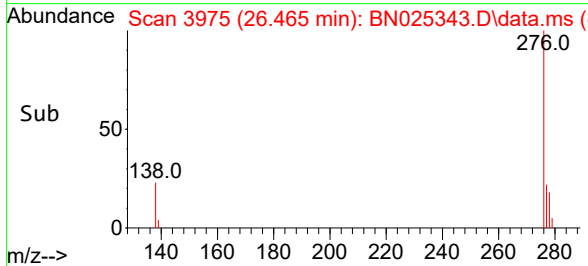
277 24.8 19.8 29.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#37

Benzo(b)fluoranthene

Concen: 1.903 ng

RT: 23.182 min Scan# 2852

Delta R.T. -0.006 min

Lab File: BN025343.D

Acq: 08 May 2023 21:22

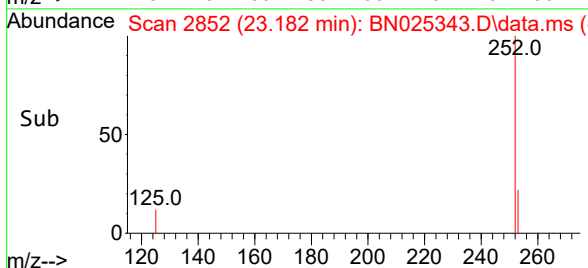
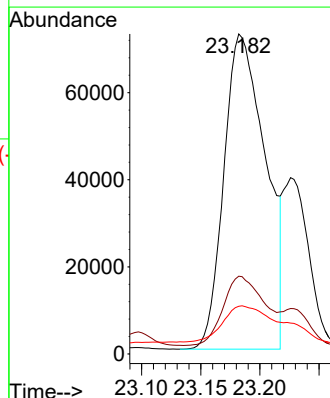
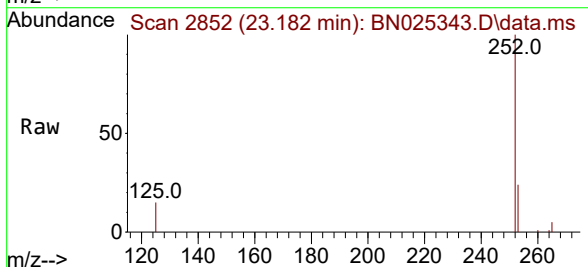
Tgt Ion:252 Resp: 177399

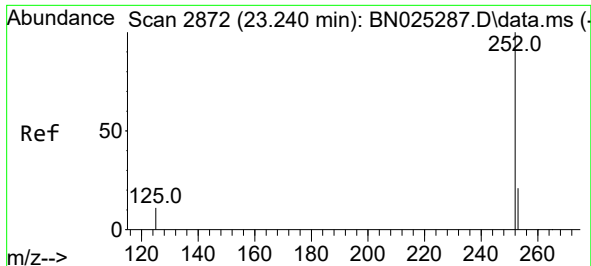
Ion Ratio Lower Upper

252 100

253 24.3 20.8 31.2

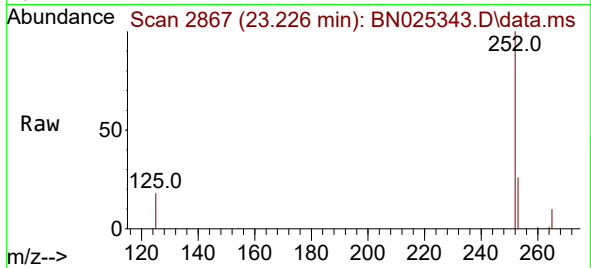
125 14.9 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.605 ng m
RT: 23.226 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

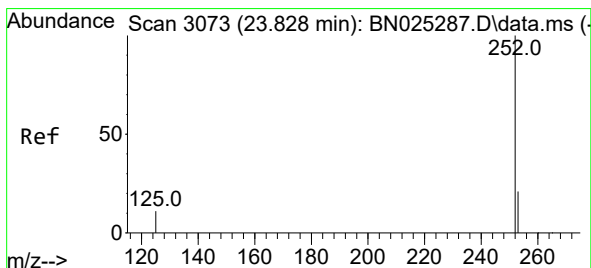
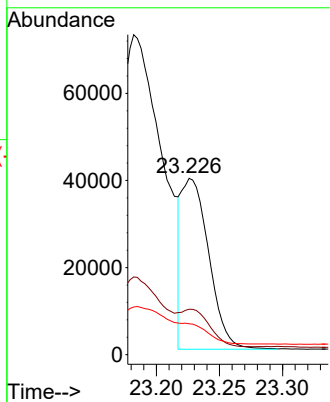
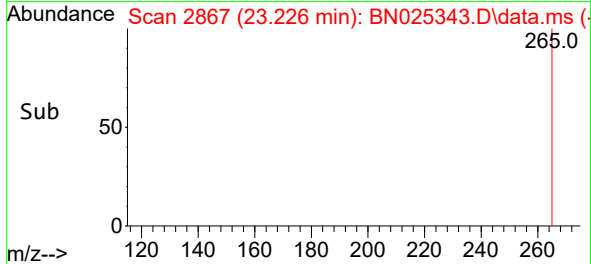
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



Tgt Ion:252 Resp: 59050
Ion Ratio Lower Upper
252 100
253 25.8 20.6 30.8
125 17.5 13.1 19.7

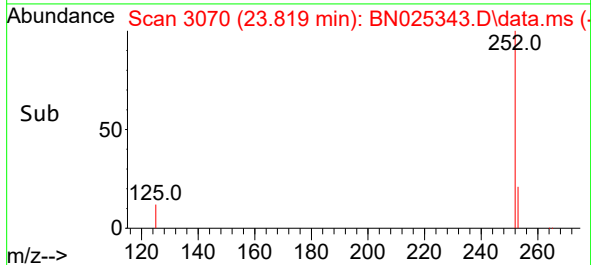
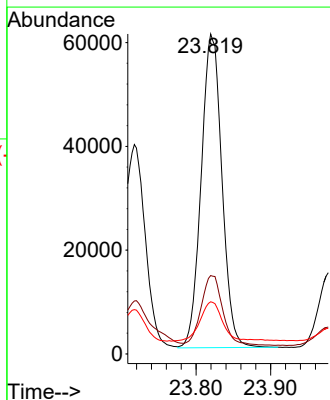
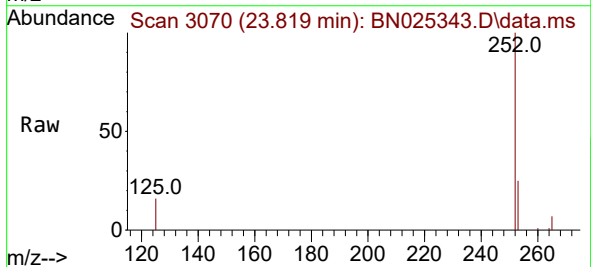
Manual Integrations
APPROVED

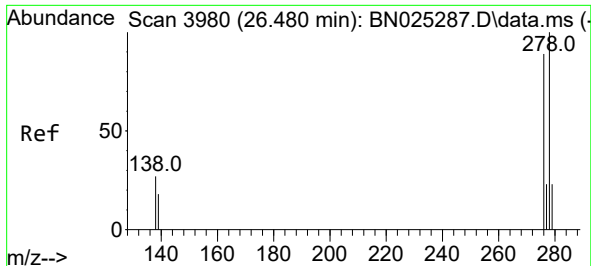
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 1.223 ng
RT: 23.819 min Scan# 3070
Delta R.T. -0.003 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

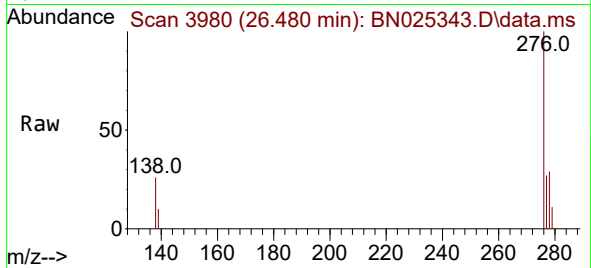
Tgt Ion:252 Resp: 116853
Ion Ratio Lower Upper
252 100
253 24.5 21.4 32.0
125 16.3 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.184 ng
RT: 26.480 min Scan# 3980
Delta R.T. 0.015 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22

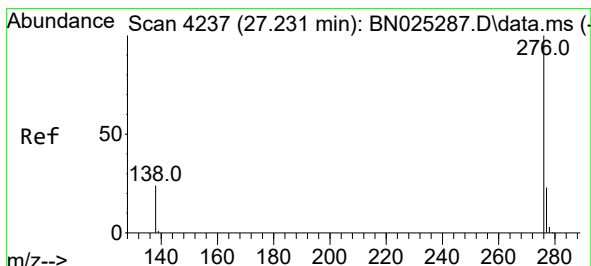
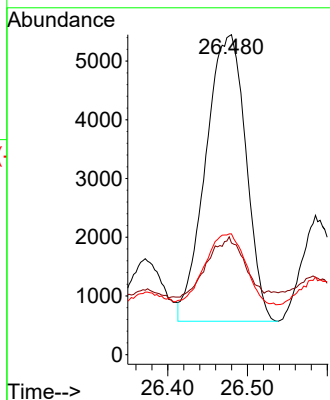
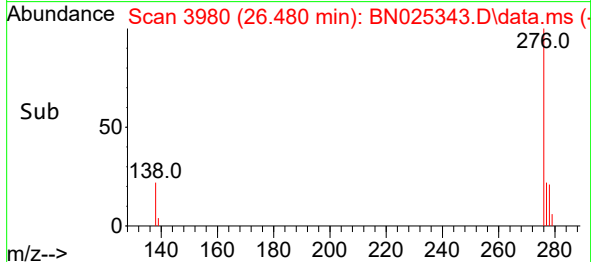
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023DL



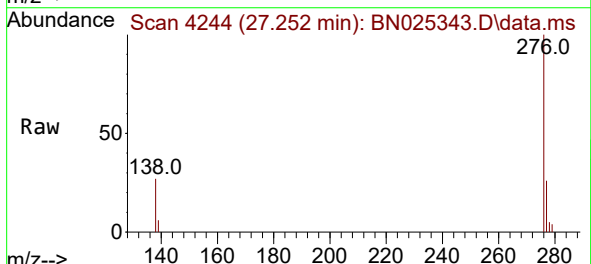
Tgt Ion: 278 Resp: 17089
Ion Ratio Lower Upper
278 100
139 34.9 17.6 26.4
279 37.8 21.6 32.4

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 05/09/2023
Supervised By : Jagrut Upadhyay 05/09/2023



#41
Benzo(g,h,i)perylene
Concen: 0.636 ng
RT: 27.252 min Scan# 4244
Delta R.T. 0.023 min
Lab File: BN025343.D
Acq: 08 May 2023 21:22



Tgt Ion: 276 Resp: 65014
Ion Ratio Lower Upper
276 100
277 25.9 20.1 30.1
138 26.6 21.0 31.6

