

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025334.D
 Acq On : 08 May 2023 15:57
 Operator : CG/JU
 Sample : 02588-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 50

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

Quant Time: May 09 04:02:43 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	261092	20.000	ng	0.00
7) Naphthalene-d8	10.707	136	825842	20.000	ng	-0.01
13) Acenaphthene-d10	14.544	164	506652	20.000	ng	0.00
19) Phenanthrene-d10	17.298	188	1161534	20.000	ng	0.00
29) Chrysene-d12	21.504	240	1125922	20.000	ng	# 0.00
35) Perylene-d12	23.923	264	1177992	20.000	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.455	112	1635326	128.662	ng	0.00
5) Phenol-d6	7.073	99	2298807	144.137	ng	0.00
8) Nitrobenzene-d5	9.063	82	1152924	84.864	ng	-0.02
11) 2-Methylnaphthalene-d10	12.268	152	45	0.002	ng	-0.04
14) 2,4,6-Tribromophenol	16.045	330	755317	145.809	ng	-0.01
15) 2-Fluorobiphenyl	13.176	172	2366083	68.090	ng	0.00
27) Fluoranthene-d10	19.283	212	3233	0.056	ng	-0.05
31) Terphenyl-d14	19.928	244	3083692	67.917	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.760	128	15406	0.364	ng	99
12) 2-Methylnaphthalene	12.377	142	7789	0.260	ng	98
16) Acenaphthylene	14.266	152	32562	0.718	ng	99
17) Acenaphthene	14.608	154	30541	1.082	ng	# 76
18) Fluorene	15.603	166	54148	1.400	ng	99
25) Phenanthrene	17.336	178	766210	11.921	ng	100
26) Anthracene	17.435	178	230550	3.829	ng	99
28) Fluoranthene	19.363	202	1518359	18.906	ng	99
30) Pyrene	19.726	202	1309846	17.015	ng	# 94
32) Benzo(a)anthracene	21.486	228	740347	9.727	ng	98
33) Chrysene	21.540	228	691008	9.121	ng	97
34) Bis(2-ethylhexyl)phtha...	21.396	149	35626	0.596	ng	93
36) Indeno(1,2,3-cd)pyrene	26.437	276	338633	3.585	ng	96
37) Benzo(b)fluoranthene	23.189	252	846075	11.329	ng	95
38) Benzo(k)fluoranthene	23.230	252	307534m	3.934	ng	
39) Benzo(a)pyrene	23.815	252	607816m	7.944	ng	
40) Dibenzo(a,h)anthracene	26.443	278	87347	1.171	ng	# 88
41) Benzo(g,h,i)perylene	27.221	276	319275	3.898	ng	99

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

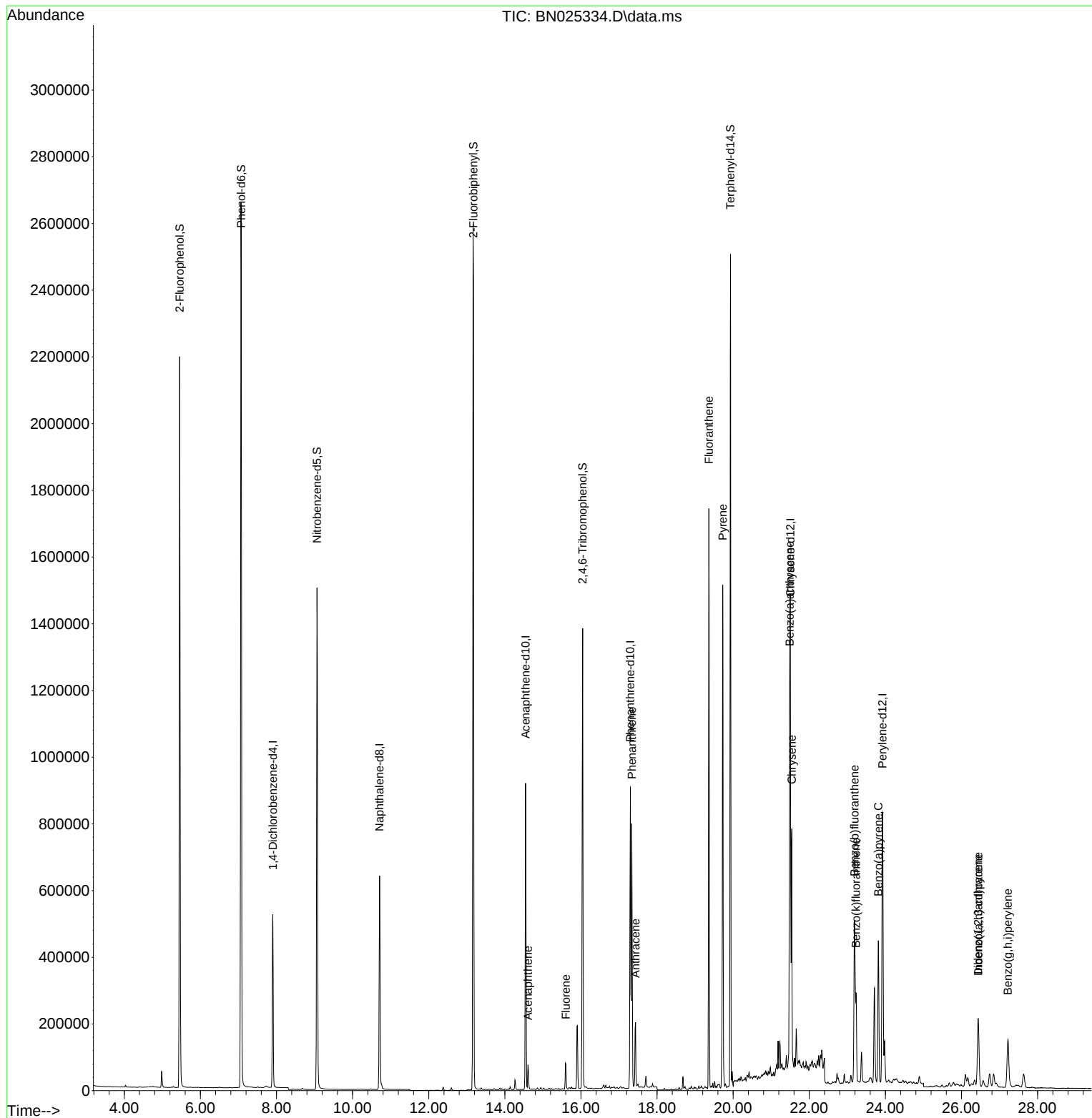
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025334.D
Acq On : 08 May 2023 15:57
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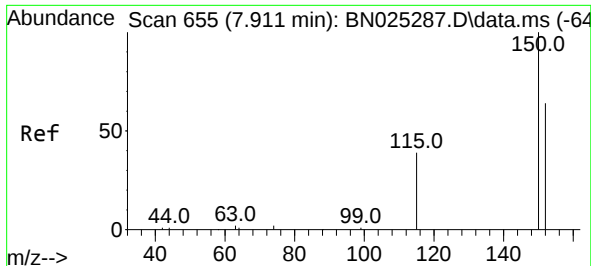
Instrument :
BNA_N
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ZONE-B-0-3-05012023

Quant Time: May 09 04:02:43 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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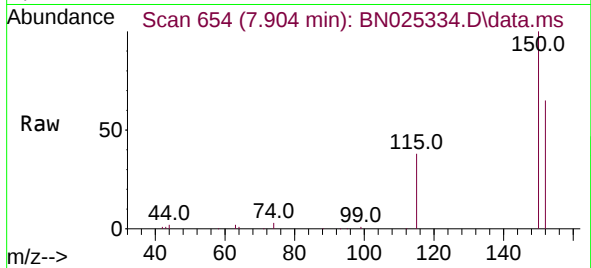
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

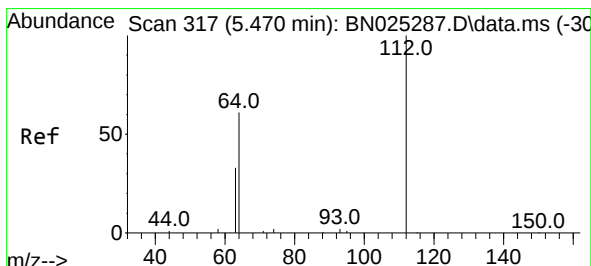
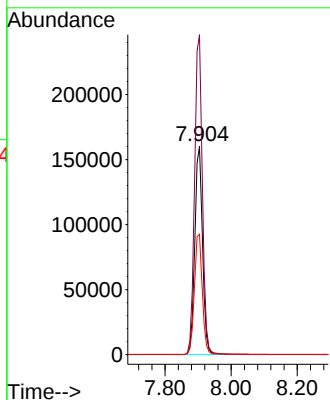
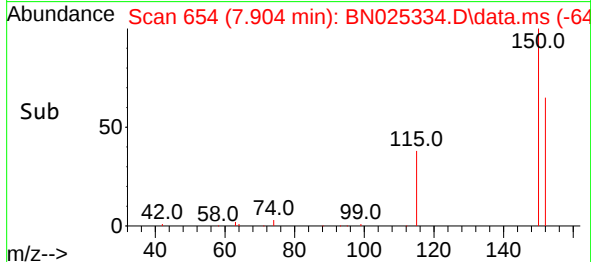
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:152 Resp: 261092
Ion Ratio Lower Upper
152 100
150 153.6 123.8 185.8
115 57.8 52.9 79.3

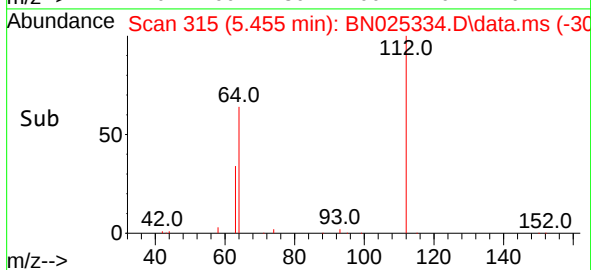
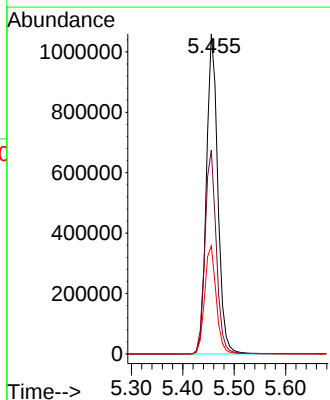
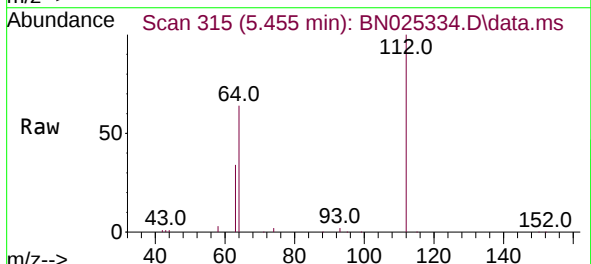
Manual Integrations
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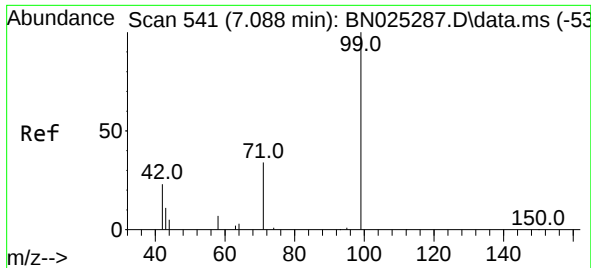
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 128.662 ng
RT: 5.455 min Scan# 315
Delta R.T. -0.007 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

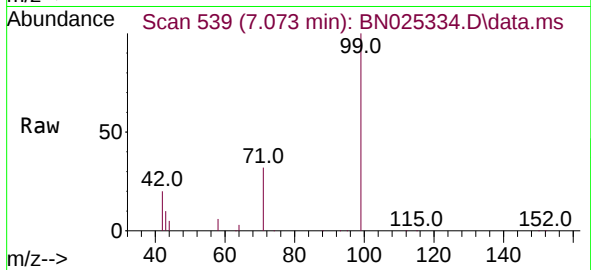
Tgt Ion:112 Resp: 1635326
Ion Ratio Lower Upper
112 100
64 64.1 51.5 77.3
63 34.4 27.8 41.6





#5
Phenol-d6
Concen: 144.137 ng
RT: 7.073 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

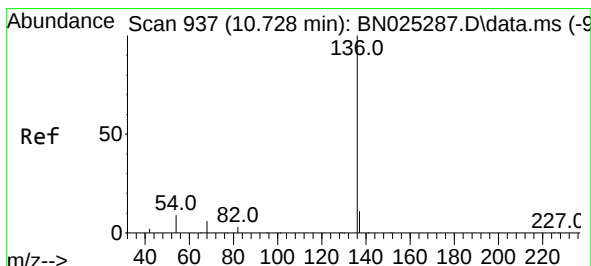
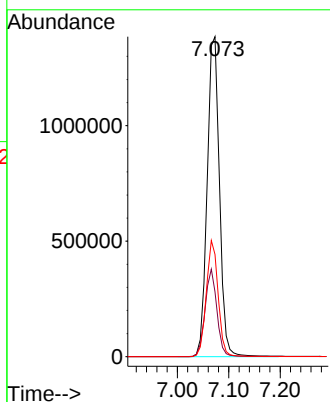
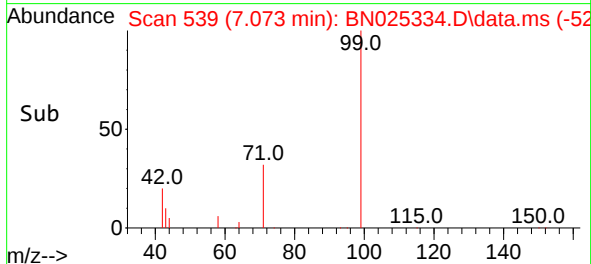
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



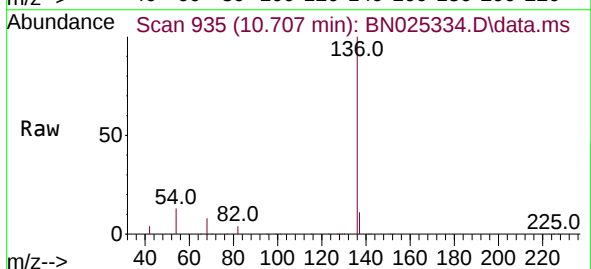
Tgt Ion: 99 Resp: 229880
Ion Ratio Lower Upper
99 100
42 26.2 22.0 33.0
71 35.1 28.7 43.1

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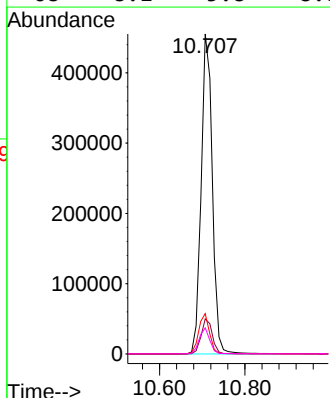
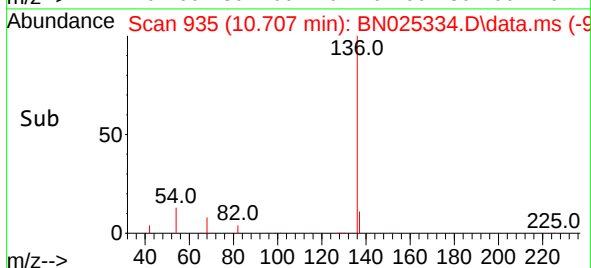
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

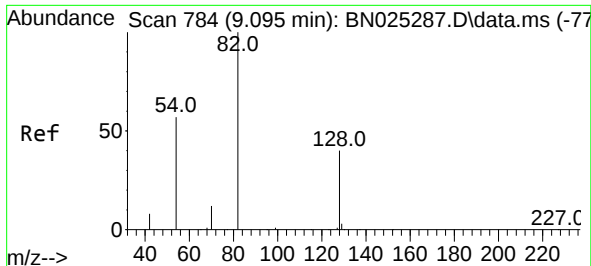


#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.707 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57



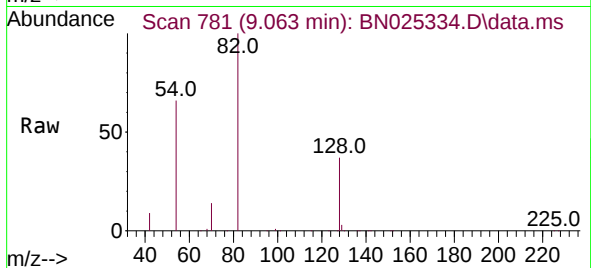
Tgt Ion:136 Resp: 825842
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.2
54 12.6 8.5 12.7
68 8.1 5.8 8.8





#8
Nitrobenzene-d5
Concen: 84.864 ng
RT: 9.063 min Scan# 784
Delta R.T. -0.022 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

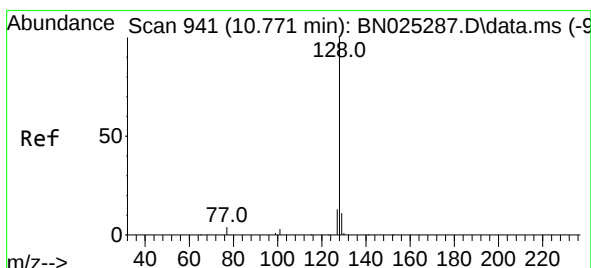
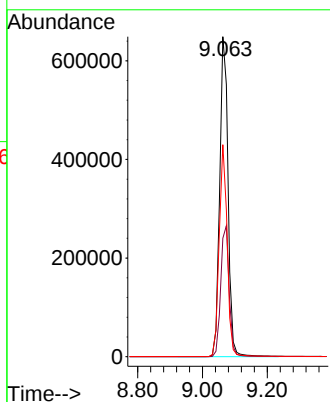
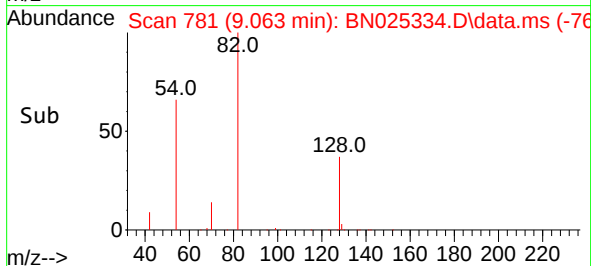
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion: 82 Resp: 1152924
Ion Ratio Lower Upper
82 100
128 37.0 35.3 52.9
54 66.2 48.7 73.1

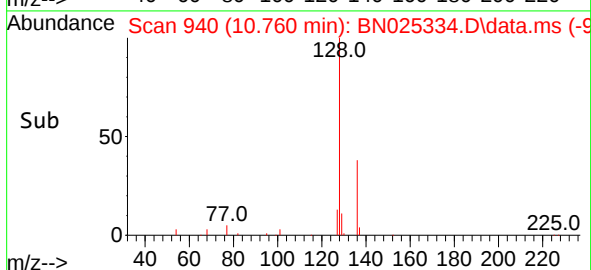
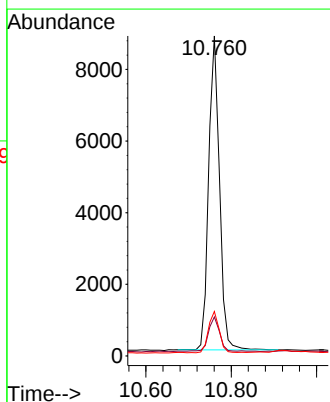
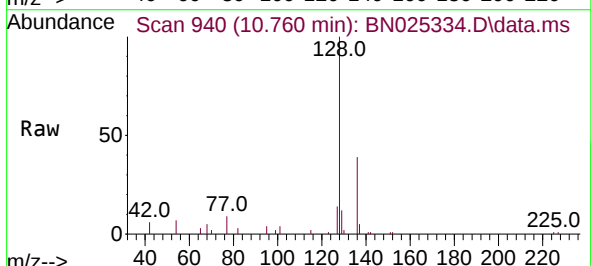
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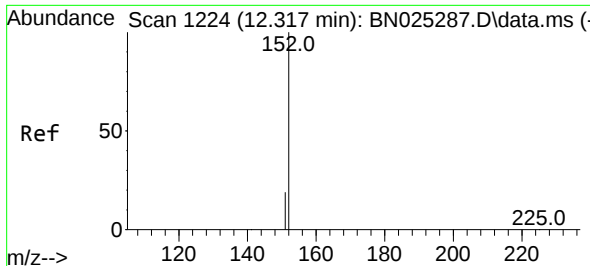
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.364 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

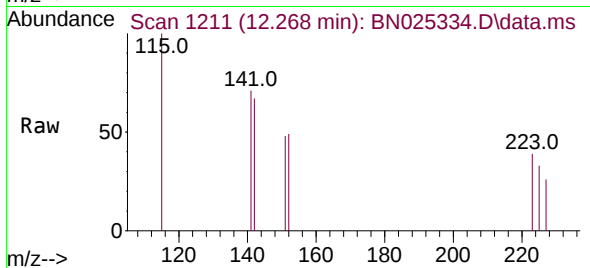
Tgt Ion:128 Resp: 15406
Ion Ratio Lower Upper
128 100
129 12.2 9.4 14.2
127 13.9 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.002 ng
RT: 12.268 min Scan# 11
Delta R.T. -0.038 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

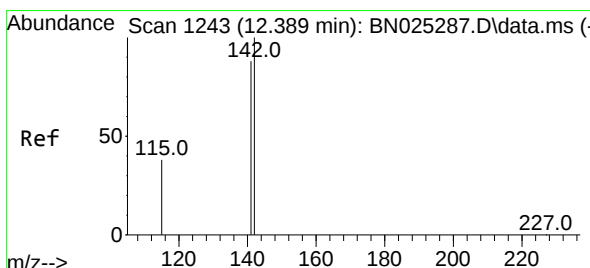
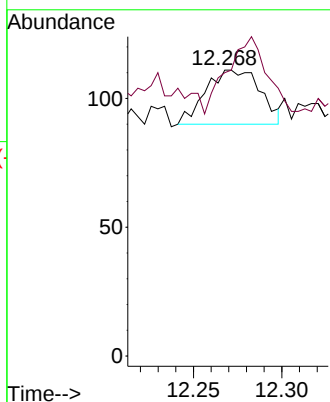
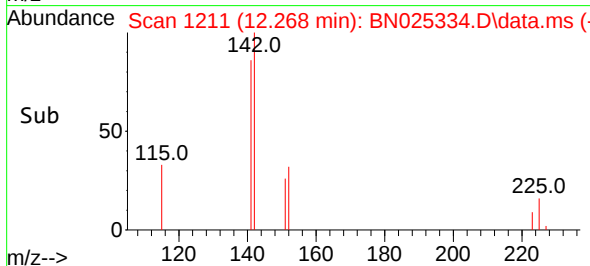
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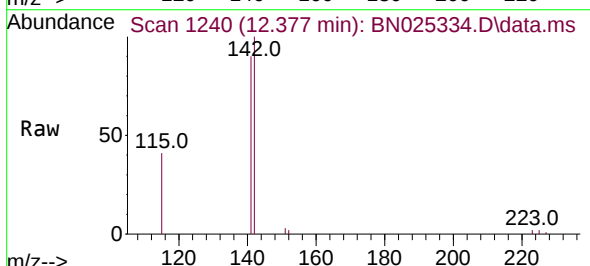
Tgt Ion:152 Resp: 45
Ion Ratio Lower Upper
152 100
151 104.4 16.4 24.6

Manual Integrations
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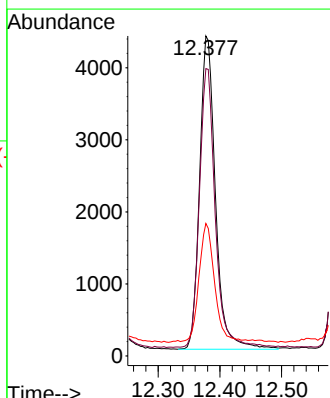
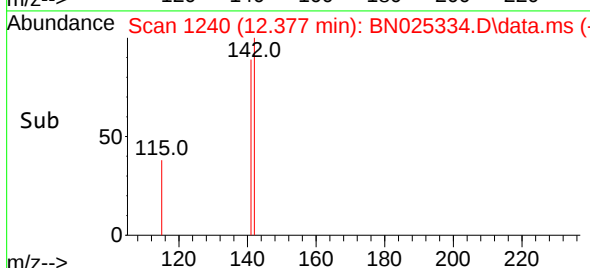
Reviewed By :Christian Giraldo 05/09/2023
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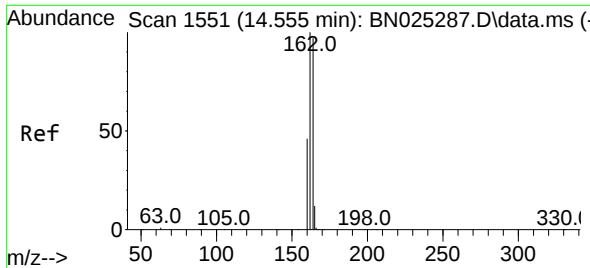


#12
2-Methylnaphthalene
Concen: 0.260 ng
RT: 12.377 min Scan# 1240
Delta R.T. -0.004 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57



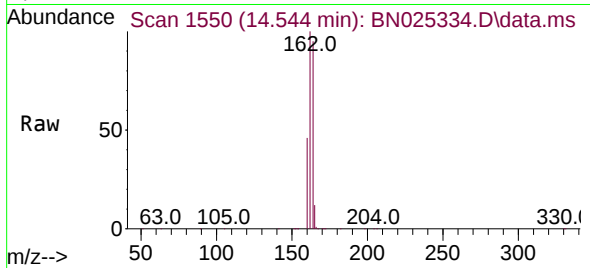
Tgt Ion:142 Resp: 7789
Ion Ratio Lower Upper
142 100
141 89.8 70.5 105.7
115 41.4 31.6 47.4





#13
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.544 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

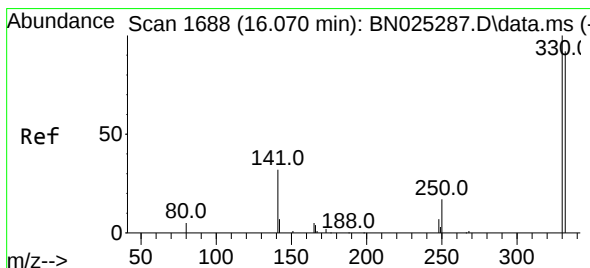
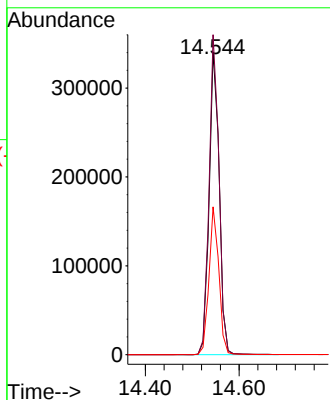
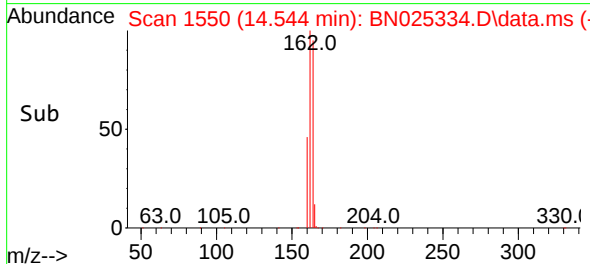
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:164 Resp: 506652
Ion Ratio Lower Upper
164 100
162 105.6 82.1 123.1
160 48.8 38.3 57.5

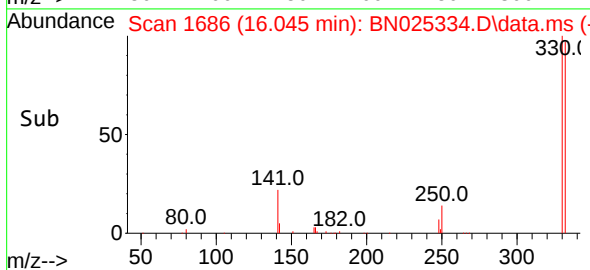
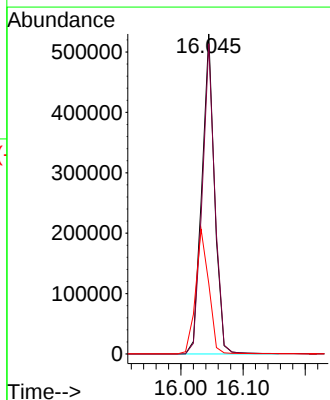
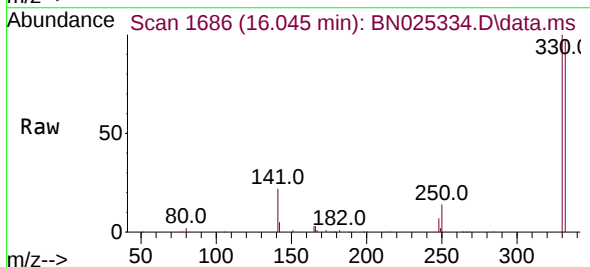
Manual Integrations
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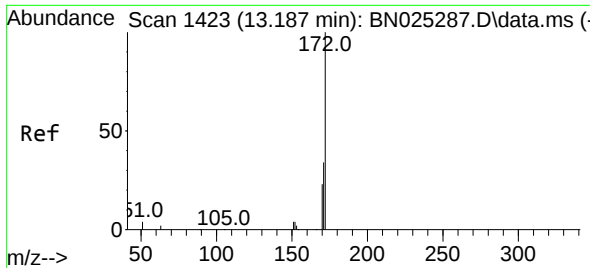
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#14
2,4,6-Tribromophenol
Concen: 145.809 ng
RT: 16.045 min Scan# 1686
Delta R.T. -0.013 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

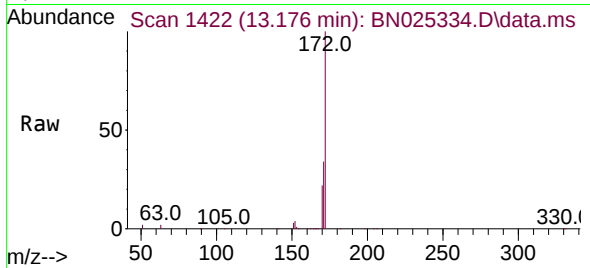
Tgt Ion:330 Resp: 755317
Ion Ratio Lower Upper
330 100
332 96.6 77.4 116.0
141 40.0 28.9 43.3





#15
2-Fluorobiphenyl
Concen: 68.090 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

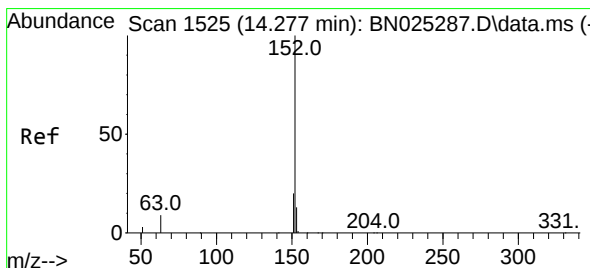
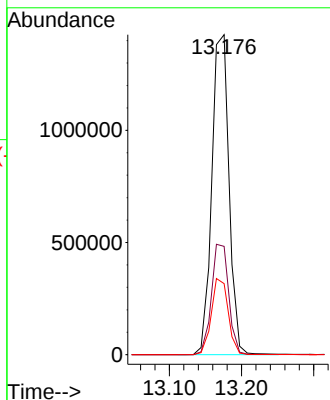
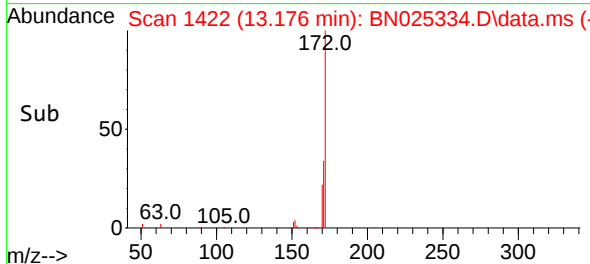
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:172 Resp: 236608
Ion Ratio Lower Upper
172 100
171 33.8 27.9 41.9
170 22.2 19.0 28.4

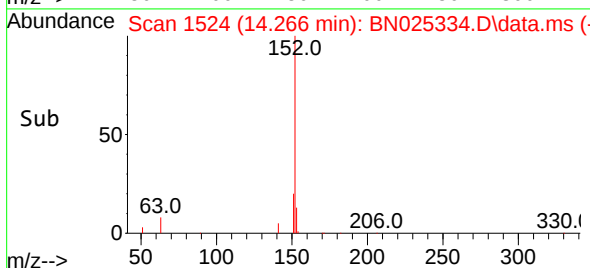
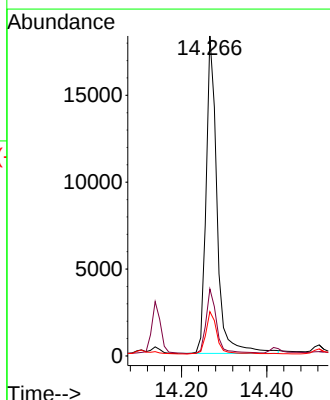
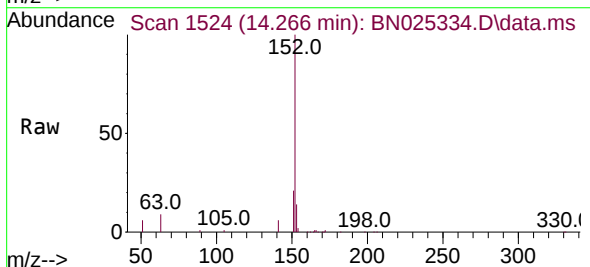
Manual Integrations
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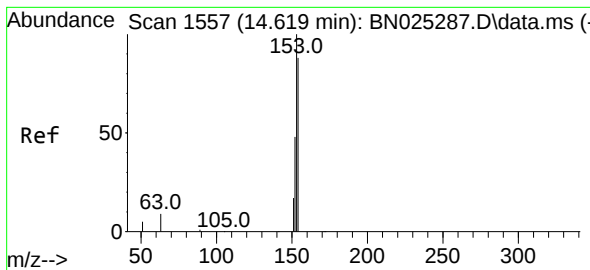
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#16
Acenaphthylene
Concen: 0.718 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

Tgt Ion:152 Resp: 32562
Ion Ratio Lower Upper
152 100
151 19.6 16.1 24.1
153 13.7 10.3 15.5





#17

Acenaphthene

Concen: 1.082 ng

RT: 14.608 min Scan# 1556

Delta R.T. -0.000 min

Lab File: BN025334.D

Acq: 08 May 2023 15:57

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023

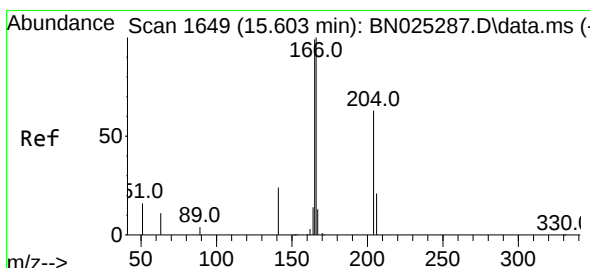
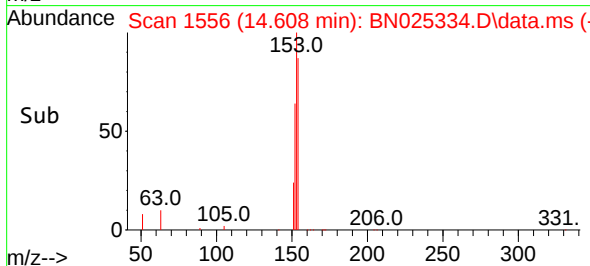
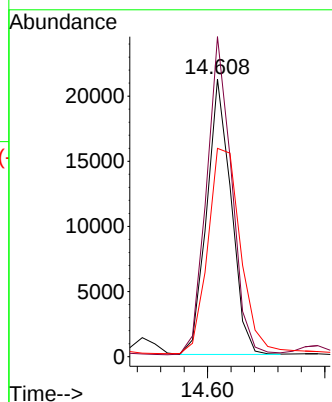
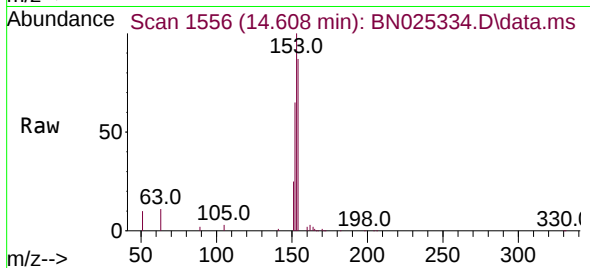
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Ion Ratio	Lower	Upper
154	100	
153	119.2	91.3 136.9
152	102.0	44.7 67.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#18

Fluorene

Concen: 1.400 ng

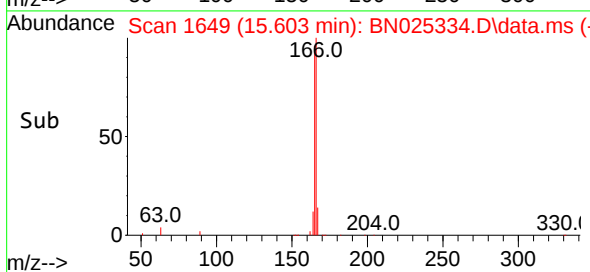
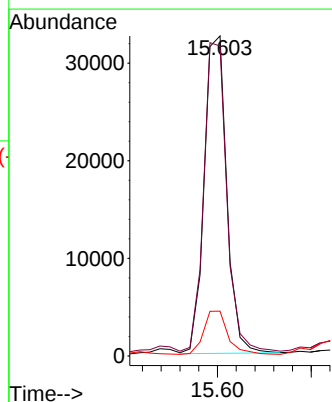
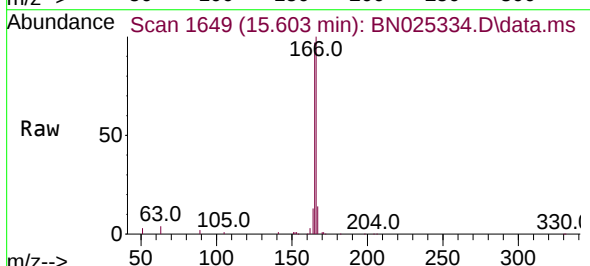
RT: 15.603 min Scan# 1649

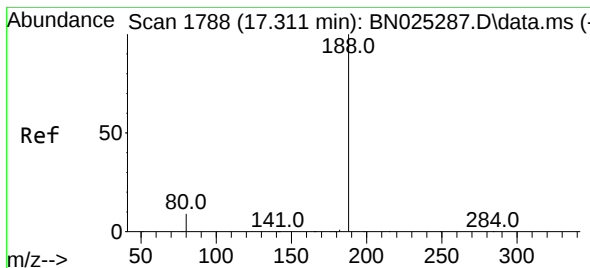
Delta R.T. -0.000 min

Lab File: BN025334.D

Acq: 08 May 2023 15:57

Tgt Ion:166	Resp:	54148
Ion Ratio	Lower	Upper
166	100	
165	98.6	79.0 118.4
167	14.8	10.3 15.5





#19

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.298 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN025334.D

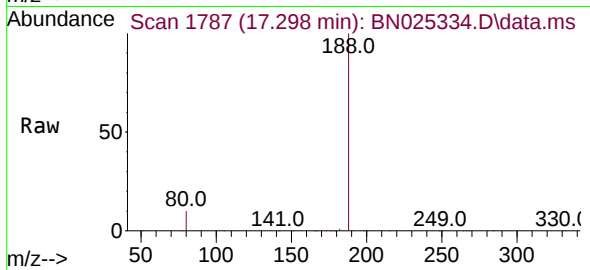
Acq: 08 May 2023 15:57

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023



Tgt Ion:188 Resp: 1161534

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

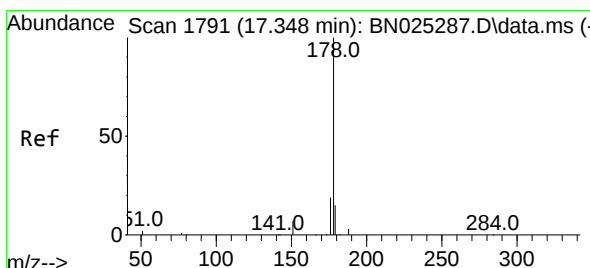
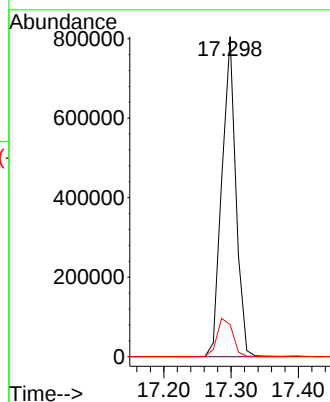
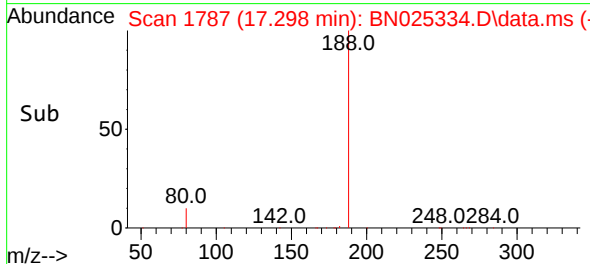
80 10.1 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#25

Phenanthrene

Concen: 11.921 ng

RT: 17.336 min Scan# 1790

Delta R.T. -0.000 min

Lab File: BN025334.D

Acq: 08 May 2023 15:57

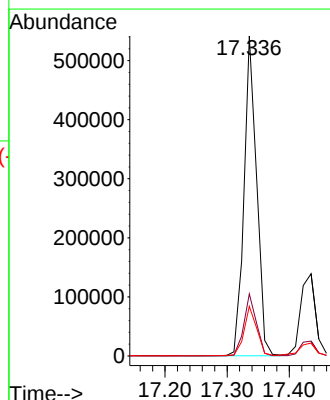
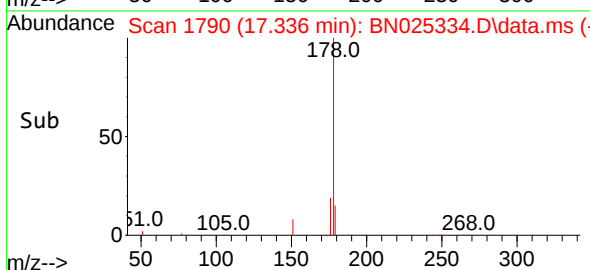
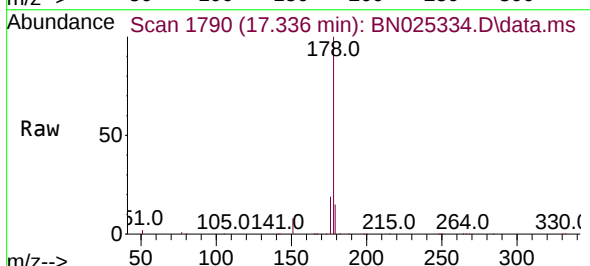
Tgt Ion:178 Resp: 766210

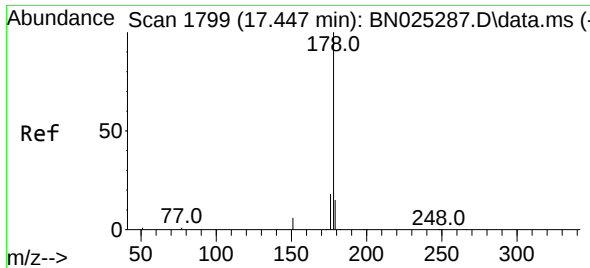
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

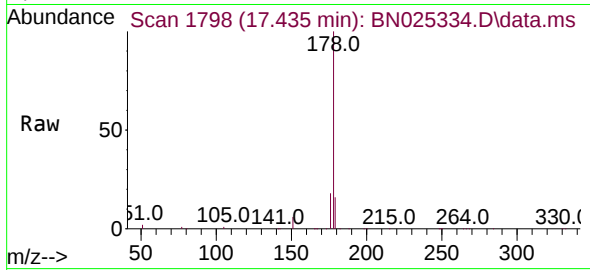
179 15.6 12.4 18.6





#26
 Anthracene
 Concen: 3.829 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025334.D
 Acq: 08 May 2023 15:57

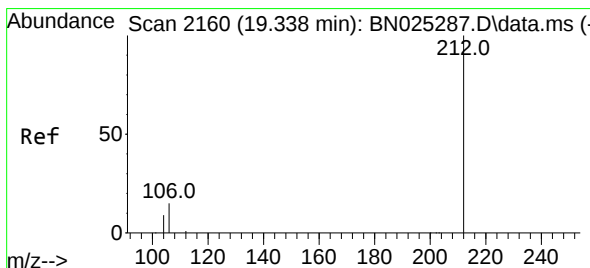
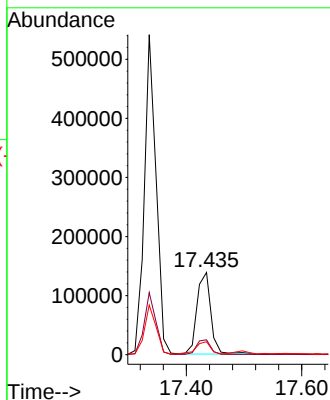
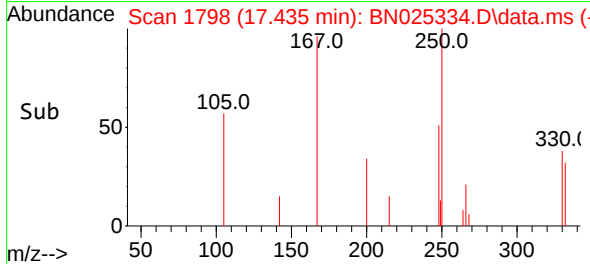
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023



Tgt Ion:178 Resp: 230550
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.9 22.3
 179 15.8 12.0 18.0

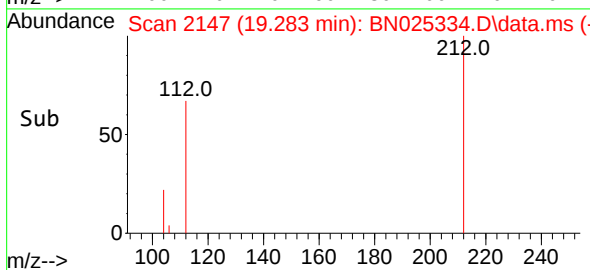
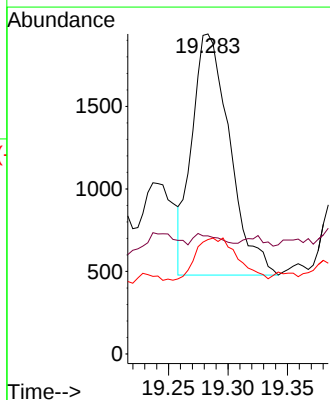
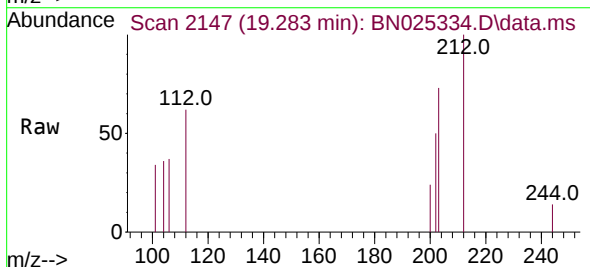
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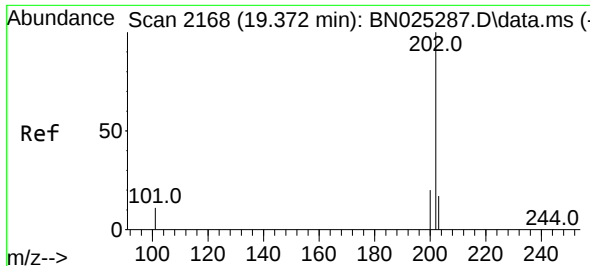
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.056 ng
 RT: 19.283 min Scan# 2147
 Delta R.T. -0.051 min
 Lab File: BN025334.D
 Acq: 08 May 2023 15:57

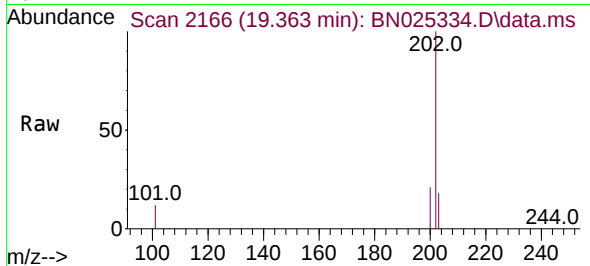
Tgt Ion:212 Resp: 3233
 Ion Ratio Lower Upper
 212 100
 106 2.8 12.6 19.0#
 104 0.0 7.0 10.6#





#28
Fluoranthene
Concen: 18.906 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.000 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

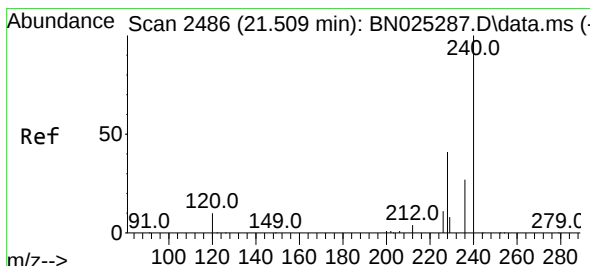
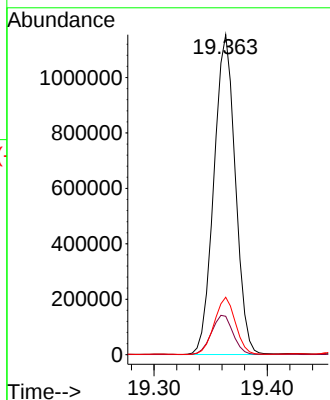
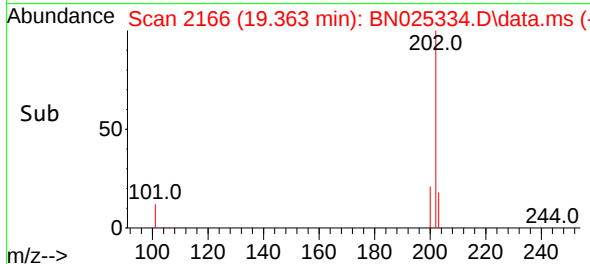
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:202 Resp: 1518359
Ion Ratio Lower Upper
202 100
101 12.4 9.8 14.8
203 17.5 13.5 20.3

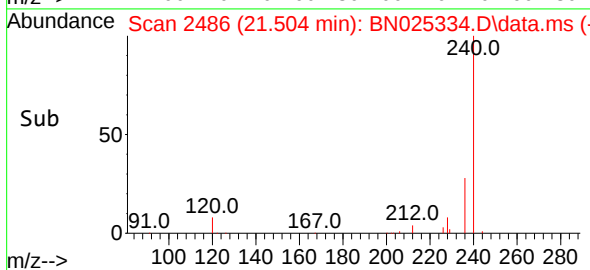
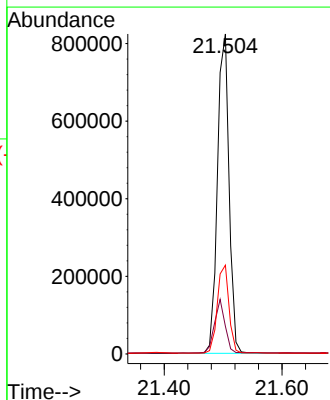
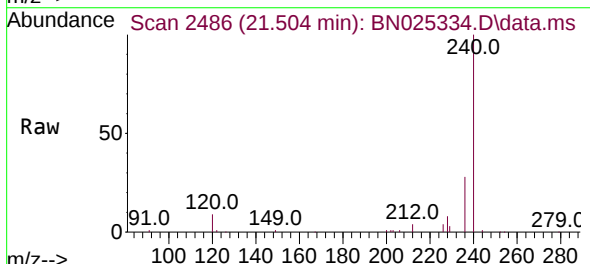
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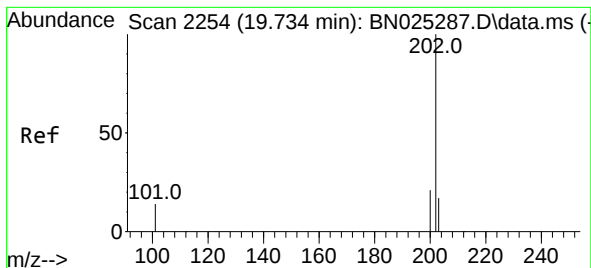
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#29
Chrysene-d12
Concen: 20.000 ng
RT: 21.504 min Scan# 2486
Delta R.T. 0.004 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

Tgt Ion:240 Resp: 1125922
Ion Ratio Lower Upper
240 100
120 8.7 10.3 15.5#
236 27.7 22.3 33.5





#30

Pyrene

Concen: 17.015 ng

RT: 19.726 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN025334.D

Acq: 08 May 2023 15:57

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023

Tgt Ion:202 Resp: 1309840

Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

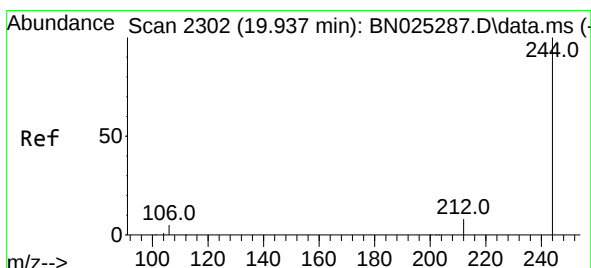
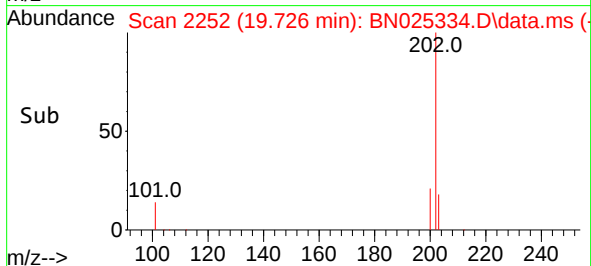
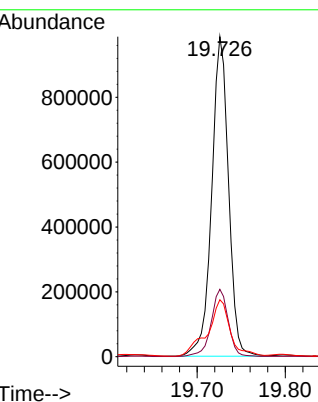
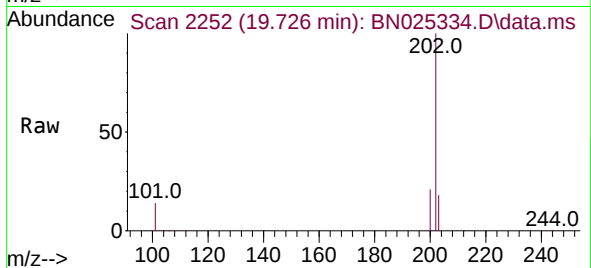
203 23.5 14.4 21.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#31

Terphenyl-d14

Concen: 67.917 ng

RT: 19.928 min Scan# 2300

Delta R.T. -0.000 min

Lab File: BN025334.D

Acq: 08 May 2023 15:57

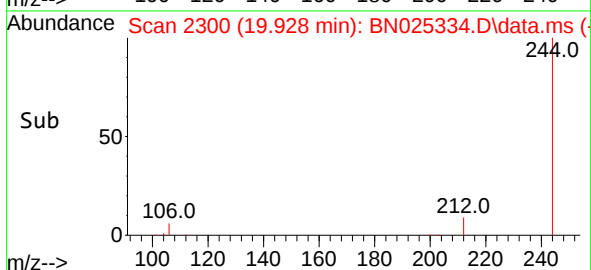
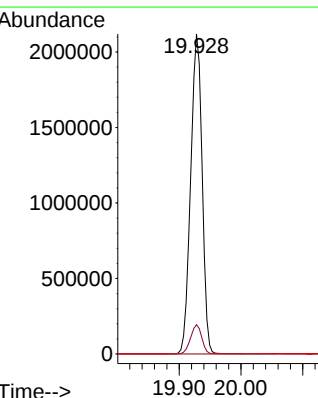
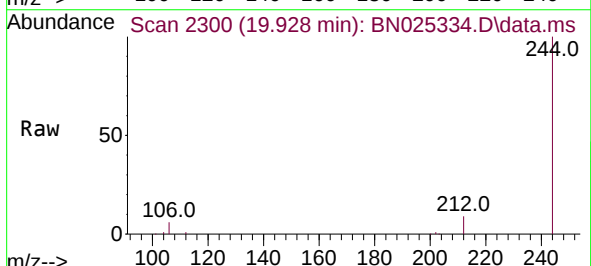
Tgt Ion:244 Resp: 3083692

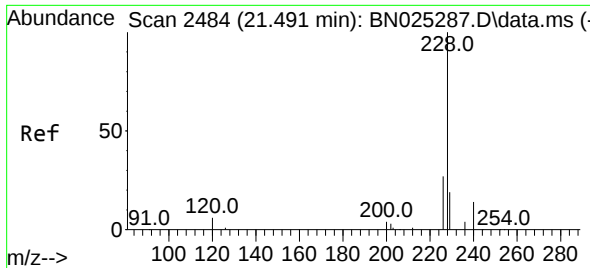
Ion Ratio Lower Upper

244 100

212 9.2 7.1 10.7

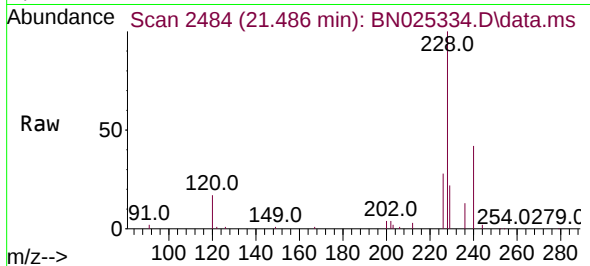
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 9.727 ng
RT: 21.486 min Scan# 2484
Delta R.T. 0.004 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

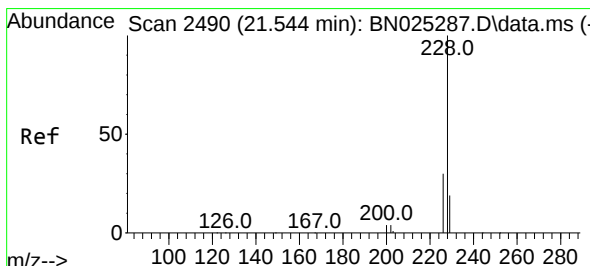
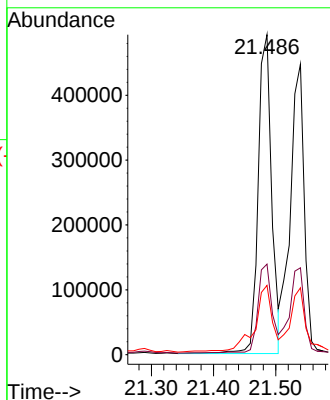
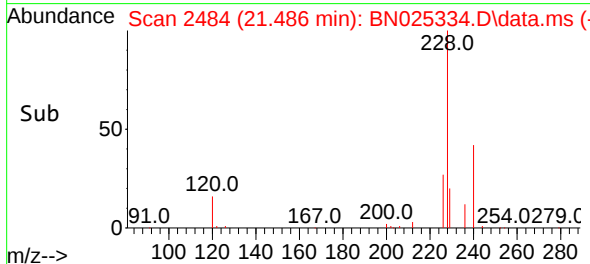
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



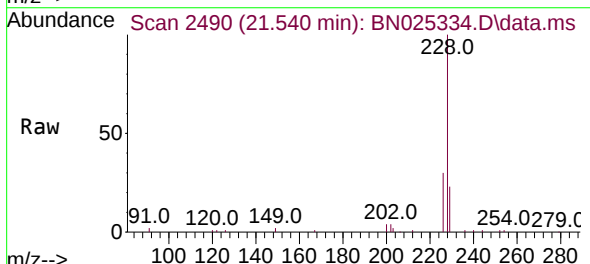
Tgt Ion:228 Resp: 74034
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 21.6 16.2 24.2

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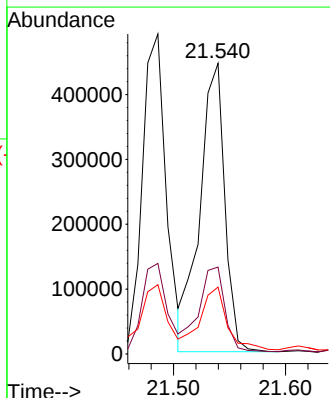
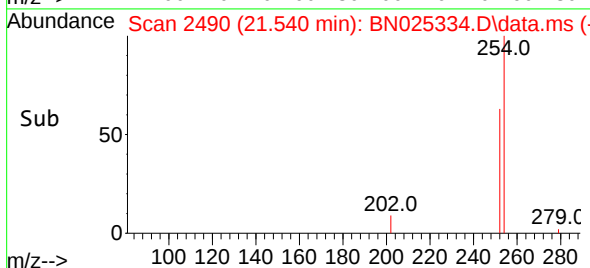
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

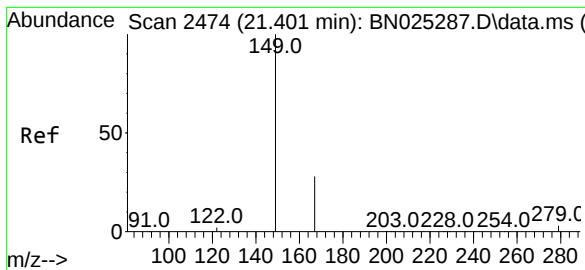


#33
Chrysene
Concen: 9.121 ng
RT: 21.540 min Scan# 2490
Delta R.T. 0.004 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57



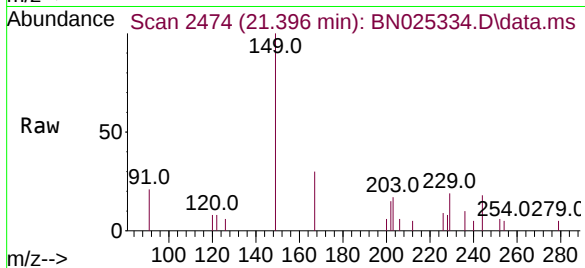
Tgt Ion:228 Resp: 691008
Ion Ratio Lower Upper
228 100
226 29.9 24.6 36.8
229 23.0 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.596 ng
RT: 21.396 min Scan# 2474
Delta R.T. 0.004 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

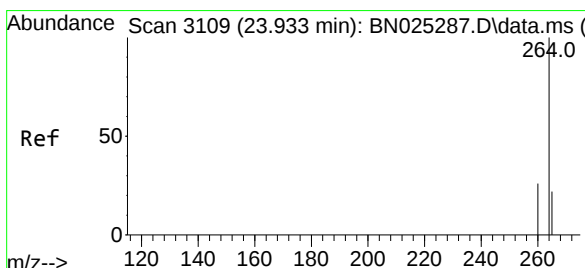
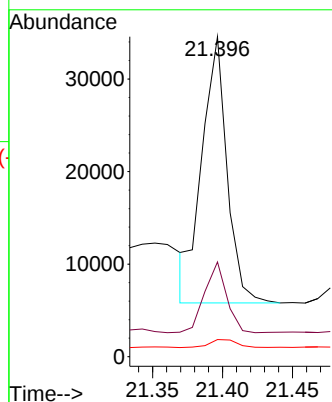
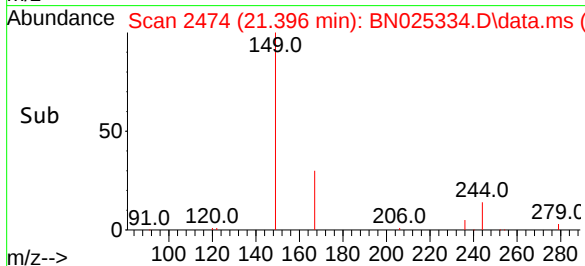
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:149 Resp: 35620
Ion Ratio Lower Upper
149 100
167 23.5 22.2 33.4
279 3.4 2.6 4.0

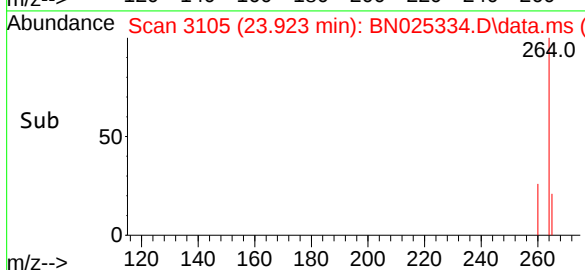
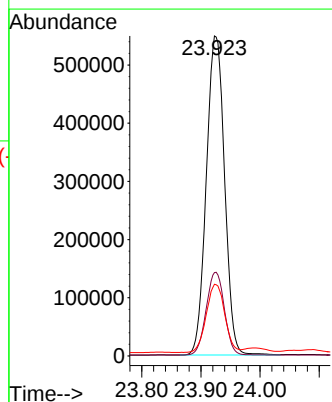
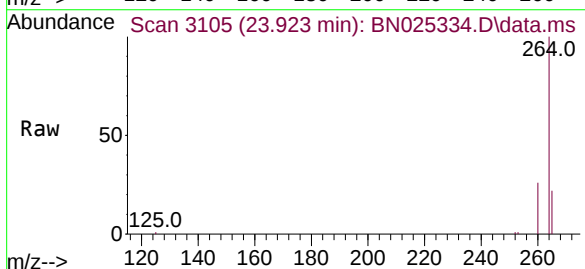
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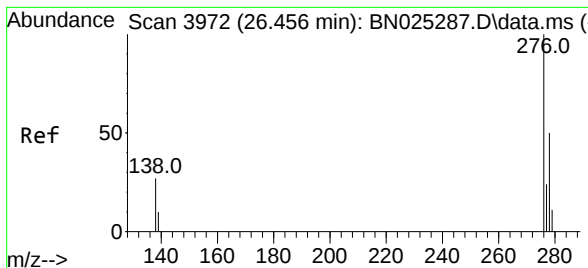
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#35
Perylene-d12
Concen: 20.000 ng
RT: 23.923 min Scan# 3105
Delta R.T. -0.008 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

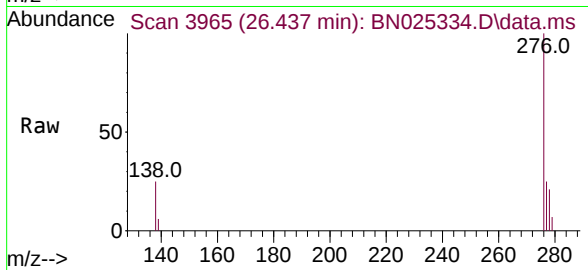
Tgt Ion:264 Resp: 1177992
Ion Ratio Lower Upper
264 100
260 26.1 21.5 32.3
265 22.4 46.2 69.4#





#36
 Indeno(1,2,3-cd)pyrene
 Concen: 3.585 ng
 RT: 26.437 min Scan# 3972
 Delta R.T. -0.011 min
 Lab File: BN025334.D
 Acq: 08 May 2023 15:57

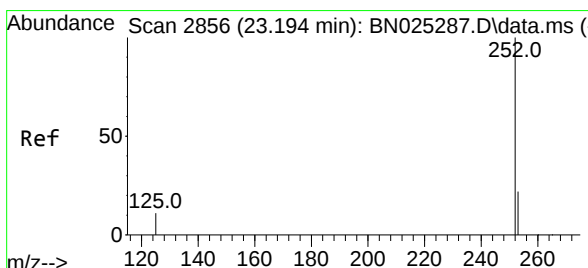
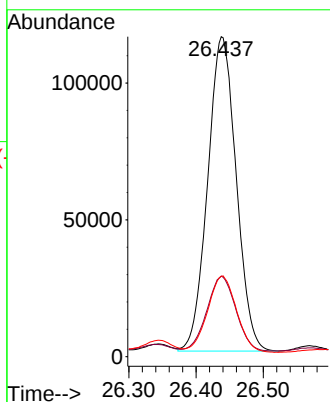
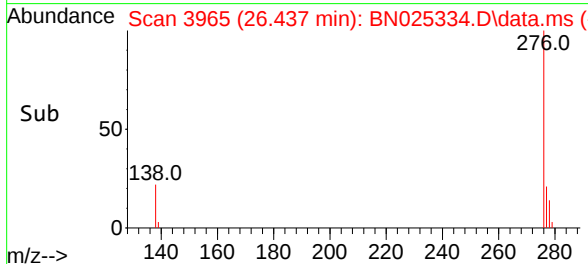
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023



Tgt Ion: 276 Resp: 33863
 Ion Ratio Lower Upper
 276 100
 138 24.0 22.5 33.7
 277 24.8 19.8 29.6

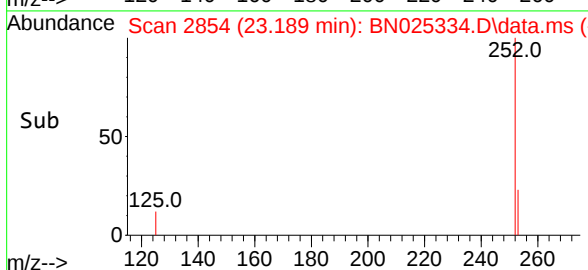
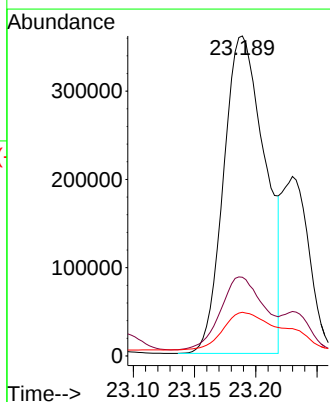
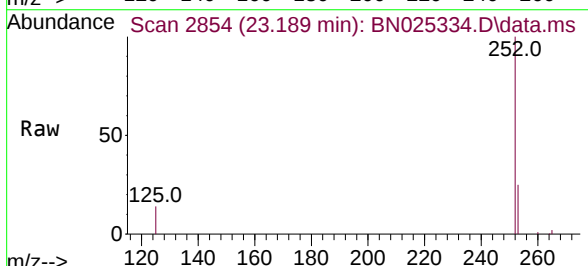
Manual Integrations
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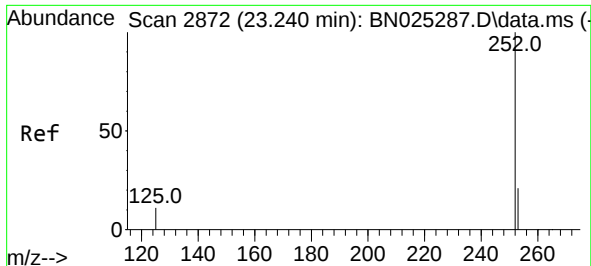
Reviewed By : Christian Giraldo 05/09/2023
 Supervised By : Jagrut Upadhyay 05/09/2023



#37
 Benzo(b)fluoranthene
 Concen: 11.329 ng
 RT: 23.189 min Scan# 2854
 Delta R.T. 0.001 min
 Lab File: BN025334.D
 Acq: 08 May 2023 15:57

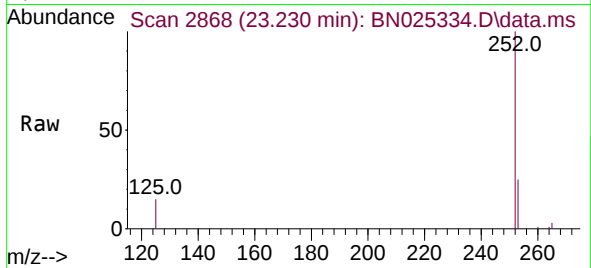
Tgt Ion: 252 Resp: 846075
 Ion Ratio Lower Upper
 252 100
 253 24.6 20.8 31.2
 125 13.6 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 3.934 ng m
RT: 23.230 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

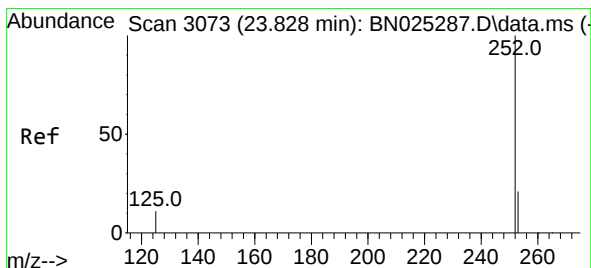
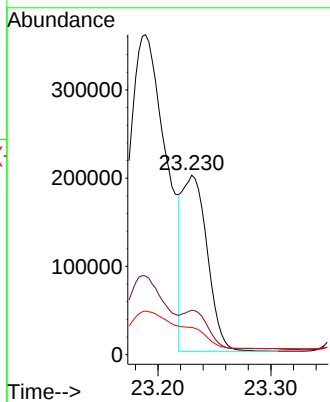
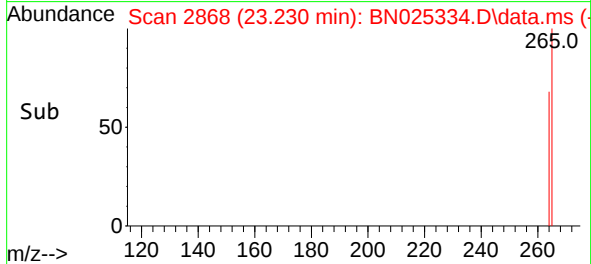
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023



Tgt Ion:252 Resp: 307534
Ion Ratio Lower Upper
252 100
253 24.8 20.6 30.8
125 15.2 13.1 19.7

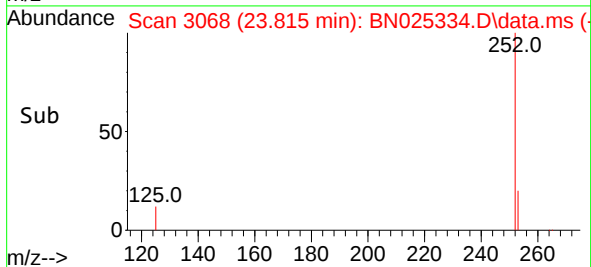
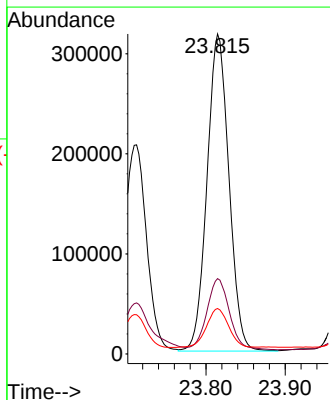
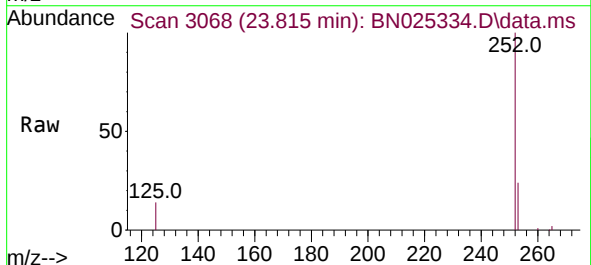
Manual Integrations
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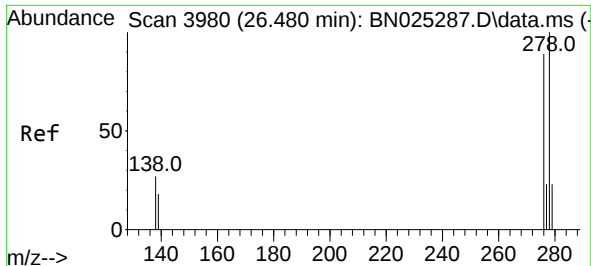
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 7.944 ng m
RT: 23.815 min Scan# 3068
Delta R.T. -0.008 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

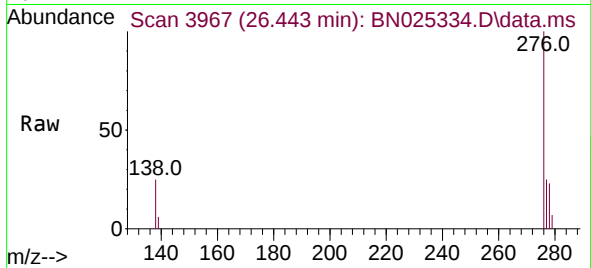
Tgt Ion:252 Resp: 607816
Ion Ratio Lower Upper
252 100
253 23.6 21.4 32.0
125 14.2 15.4 23.2#





#40
Dibenzo(a,h)anthracene
Concen: 1.171 ng
RT: 26.443 min Scan# 3980
Delta R.T. -0.022 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

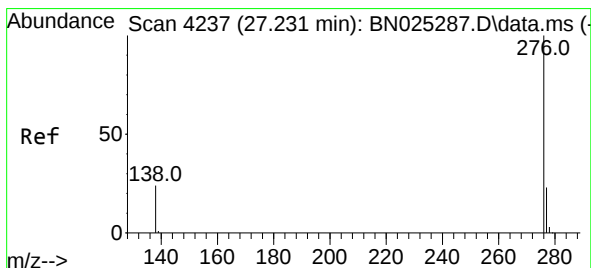
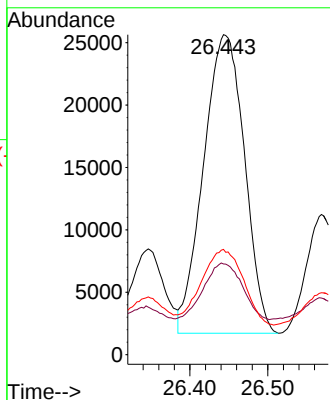
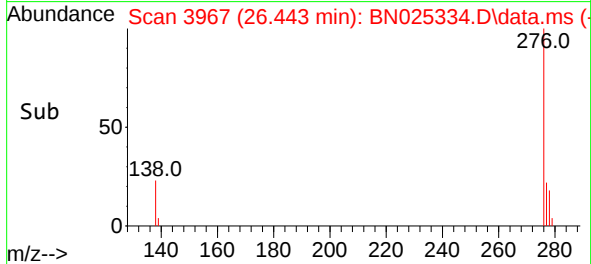
Instrument : BNA_N
ClientSampleId : ZONE-B-0-3-05012023



Tgt Ion:278 Resp: 8734
Ion Ratio Lower Upper
278 100
139 28.3 17.6 26.4
279 32.9 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: 3.898 ng
RT: 27.221 min Scan# 4233
Delta R.T. -0.008 min
Lab File: BN025334.D
Acq: 08 May 2023 15:57

Tgt Ion:276 Resp: 319275
Ion Ratio Lower Upper
276 100
277 25.1 20.1 30.1
138 25.6 21.0 31.6

