

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025318.D
 Acq On : 06 May 2023 16:32
 Operator : CG/JU
 Sample : 02588-11
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-3-6-05022023

Manual Integrations
 APPROVED

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

Quant Time: May 08 04:01:03 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	8820	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	28450	0.400	ng	-0.01
13) Acenaphthene-d10	14.555	164	17286	0.400	ng	0.00
19) Phenanthrene-d10	17.298	188	38214	0.400	ng	#-0.01
29) Chrysene-d12	21.495	240	27761	0.400	ng	#-0.01
35) Perylene-d12	23.932	264	25252	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	6084	0.283	ng	0.00
5) Phenol-d6	7.080	99	8016	0.298	ng	0.00
8) Nitrobenzene-d5	9.073	82	5740	0.245	ng	-0.02
11) 2-Methylnaphthalene-d10	12.305	152	9991	0.257	ng	-0.01
14) 2,4,6-Tribromophenol	16.045	330	1830	0.207	ng	-0.02
15) 2-Fluorobiphenyl	13.176	172	14913	0.252	ng	-0.01
27) Fluoranthene-d10	19.334	212	20257	0.214	ng	0.00
31) Terphenyl-d14	19.924	244	15433	0.276	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.760	128	38652	0.530	ng	99
12) 2-Methylnaphthalene	12.377	142	22164	0.429	ng	99
16) Acenaphthylene	14.266	152	64111	0.828	ng	99
17) Acenaphthene	14.608	154	27885	0.579	ng	100
18) Fluorene	15.603	166	40610	0.616	ng	# 96
25) Phenanthrene	17.336	178	703718	6.656	ng	100
26) Anthracene	17.435	178	166903	1.685	ng	# 95
28) Fluoranthene	19.363	202	1415951	10.718	ng	99
30) Pyrene	19.730	202	1250054	13.172	ng	# 95
32) Benzo(a)anthracene	21.477	228	609069	6.491	ng	98
33) Chrysene	21.531	228	549680	5.885	ng	98
34) Bis(2-ethylhexyl)phtha...	21.396	149	129560	1.760	ng	94
36) Indeno(1,2,3-cd)pyrene	26.475	276	343495	3.393	ng	96
37) Benzo(b)fluoranthene	23.192	252	700920	8.756	ng	97
38) Benzo(k)fluoranthene	23.233	252	258114m	3.080	ng	
39) Benzo(a)pyrene	23.826	252	522550	6.372	ng	93
40) Dibenzo(a,h)anthracene	26.481	278	86029	1.076	ng	# 85
41) Benzo(g,h,i)perylene	27.267	276	349596	3.982	ng	99

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

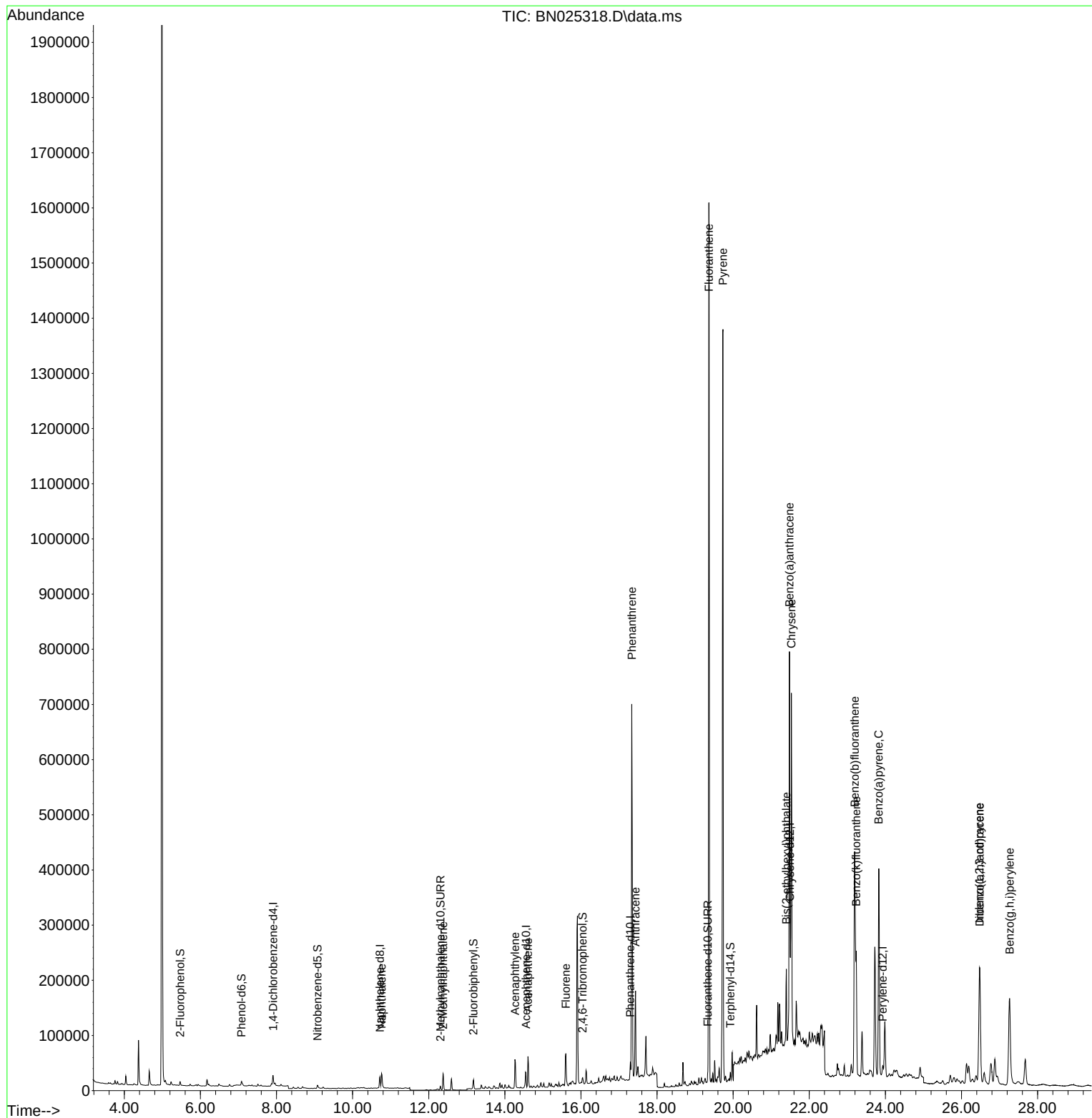
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
Data File : BN025318.D
Acq On : 06 May 2023 16:32
Operator : CG/JU
Sample : 02588-11
Misc :
ALS Vial : 37 Sample Multiplier: 1

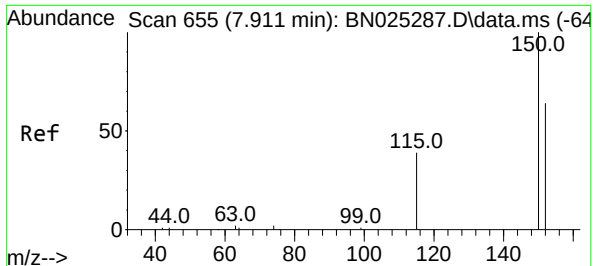
Instrument :
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ZONE-D-3-6-05022023

Quant Time: May 08 04:01:03 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

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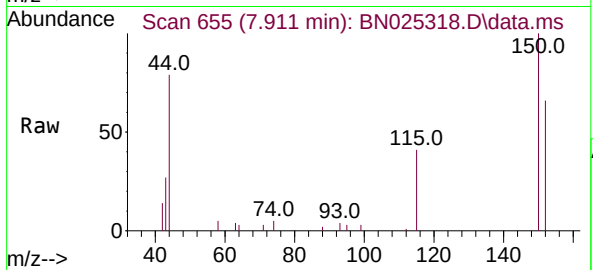
Reviewed By : Christian Giraldo 05/08/2023
Supervised By : Jagrut Upadhyay 05/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.911 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

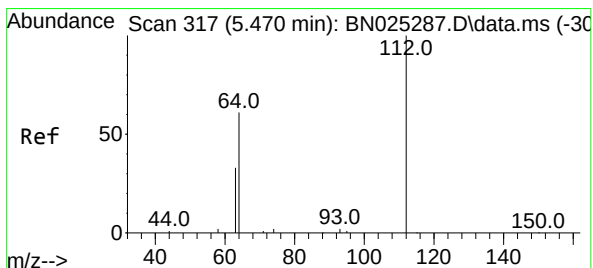
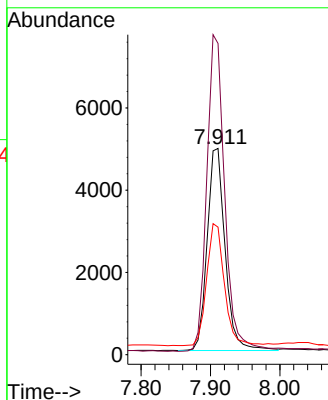
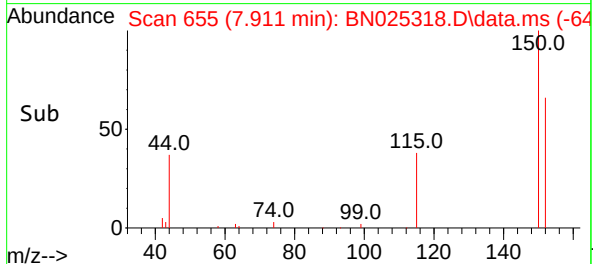
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



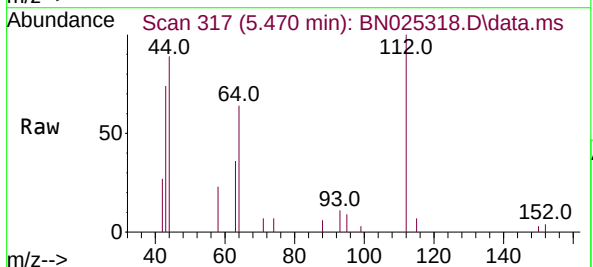
Tgt Ion:152 Resp: 8820
Ion Ratio Lower Upper
152 100
150 151.0 123.8 185.8
115 61.9 52.9 79.3

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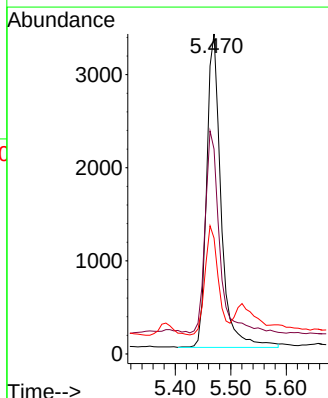
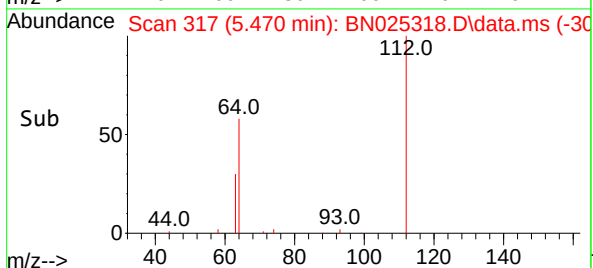
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

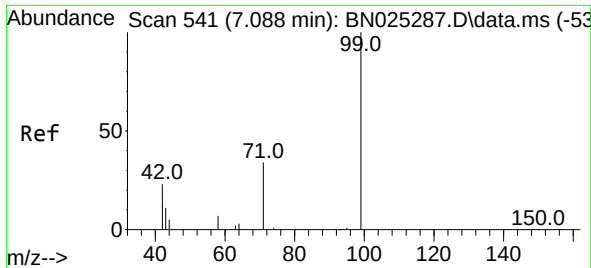


#4
2-Fluorophenol
Concen: 0.283 ng
RT: 5.470 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32



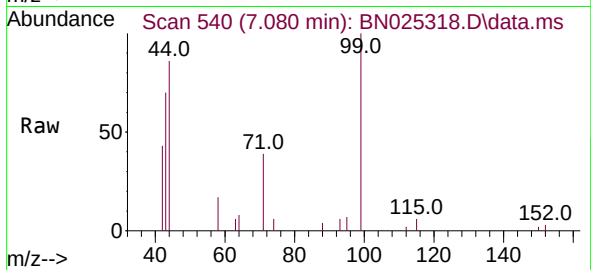
Tgt Ion:112 Resp: 6084
Ion Ratio Lower Upper
112 100
64 64.5 51.5 77.3
63 32.3 27.8 41.6





#5
Phenol-d6
Concen: 0.298 ng
RT: 7.080 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

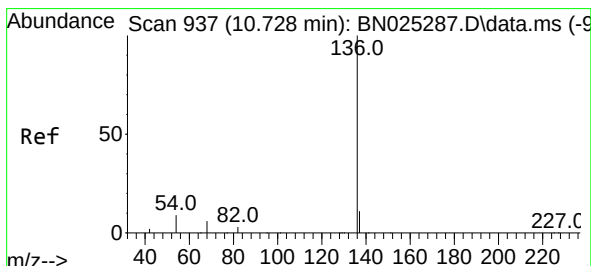
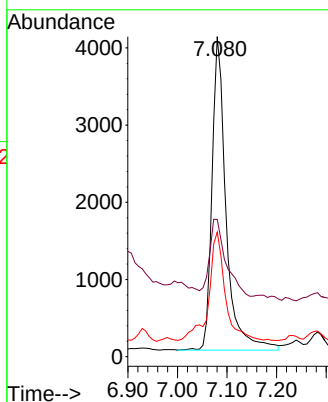
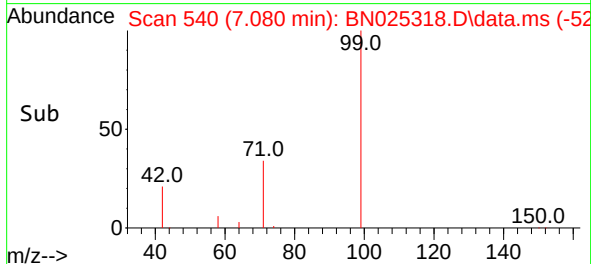
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



Tgt Ion: 99 Resp: 8010
Ion Ratio Lower Upper
99 100
42 28.5 22.0 33.0
71 40.2 28.7 43.1

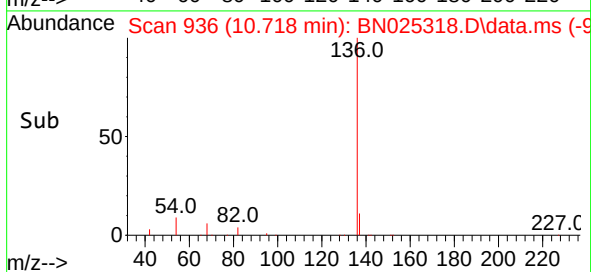
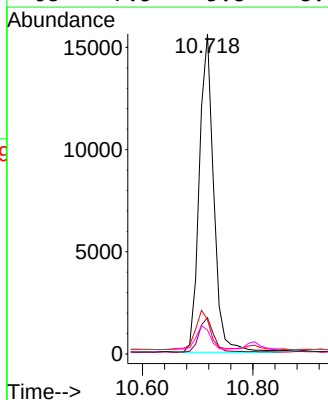
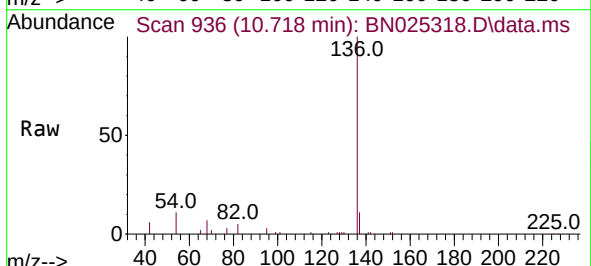
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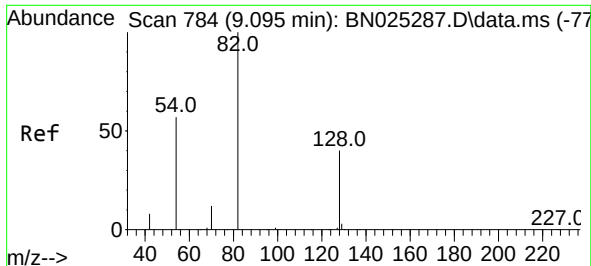
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

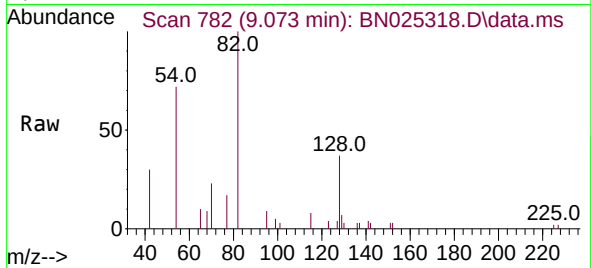
Tgt Ion:136 Resp: 28450
Ion Ratio Lower Upper
136 100
137 11.4 9.4 14.2
54 10.6 8.5 12.7
68 7.5 5.8 8.8





#8
Nitrobenzene-d5
Concen: 0.245 ng
RT: 9.073 min Scan# 71
Delta R.T. -0.022 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

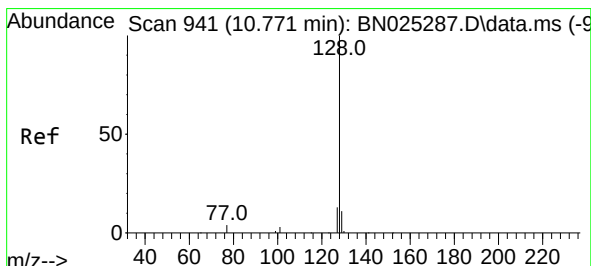
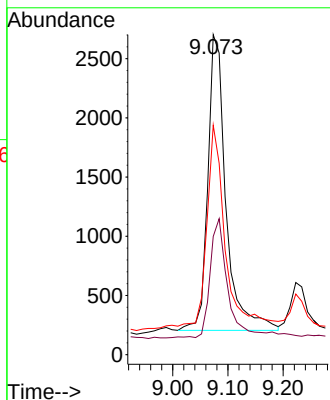
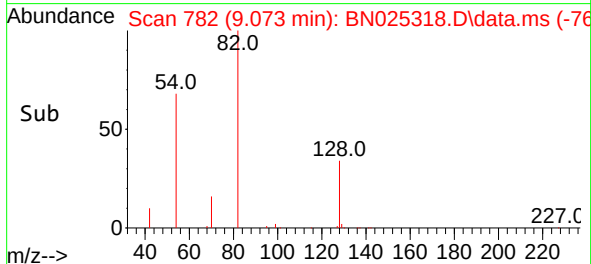
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



Tgt Ion: 82 Resp: 5740
Ion Ratio Lower Upper
82 100
128 36.9 35.3 52.9
54 71.7 48.7 73.1

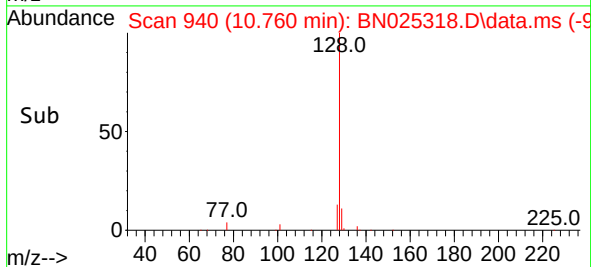
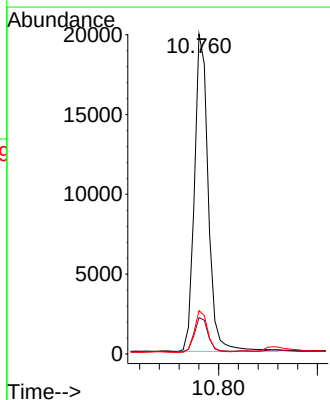
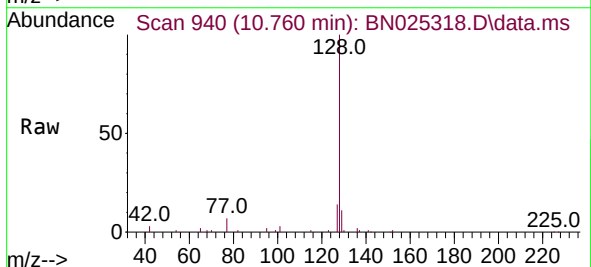
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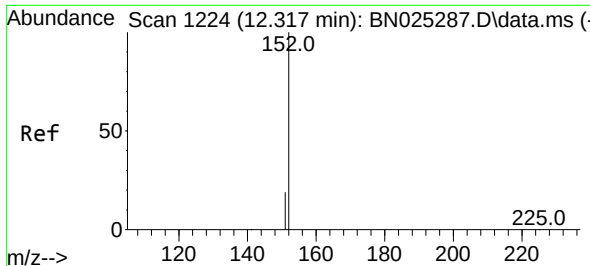
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#9
Naphthalene
Concen: 0.530 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

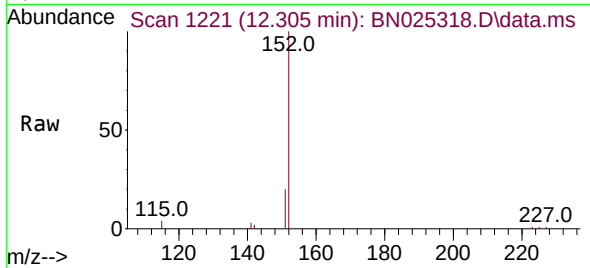
Tgt Ion:128 Resp: 38652
Ion Ratio Lower Upper
128 100
129 11.3 9.4 14.2
127 13.5 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.257 ng
RT: 12.305 min Scan# 1221
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

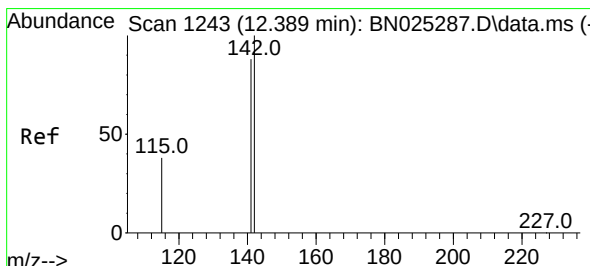
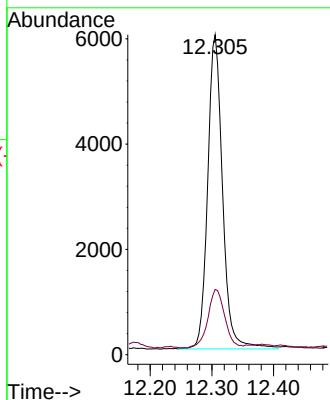
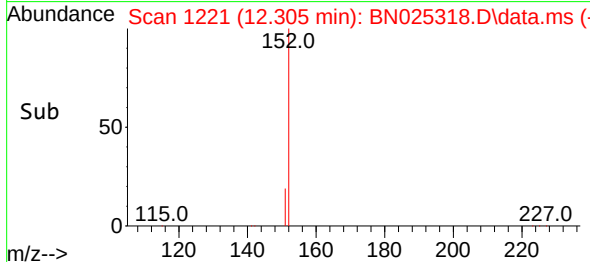
Instrument :
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ClientSampleId :
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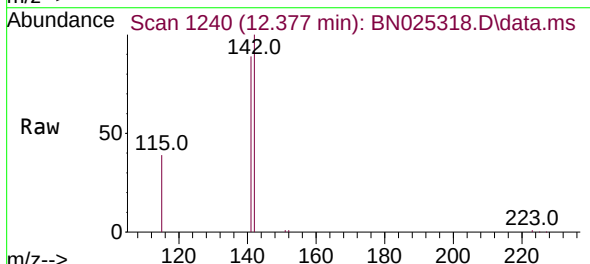
Tgt Ion:152 Resp: 999
Ion Ratio Lower Upper
152 100
151 21.2 16.4 24.6

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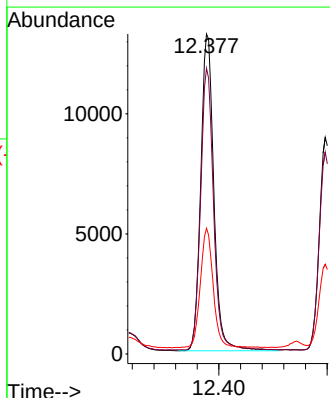
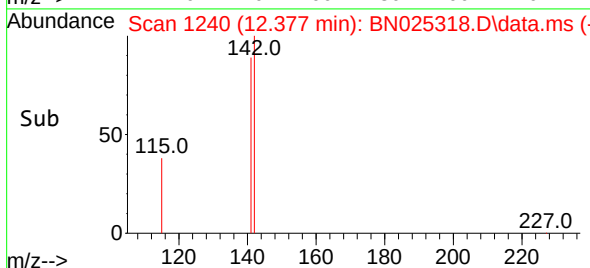
Reviewed By :Christian Giraldo 05/08/2023
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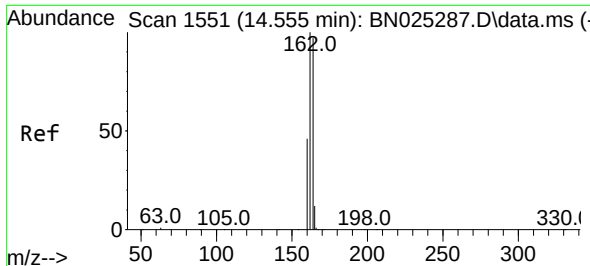


#12
2-Methylnaphthalene
Concen: 0.429 ng
RT: 12.377 min Scan# 1240
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32



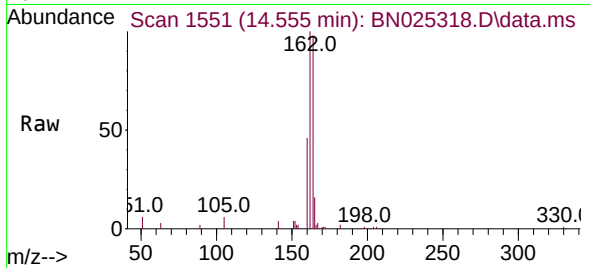
Tgt Ion:142 Resp: 22164
Ion Ratio Lower Upper
142 100
141 89.3 70.5 105.7
115 39.3 31.6 47.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.555 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

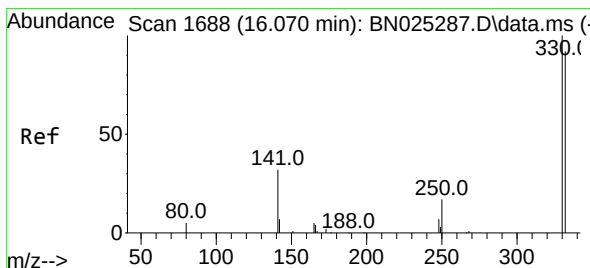
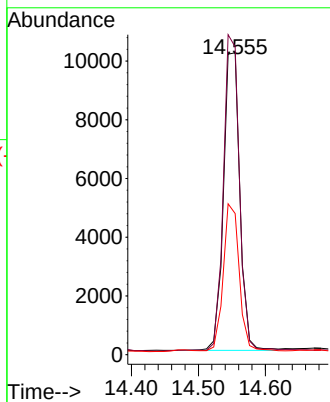
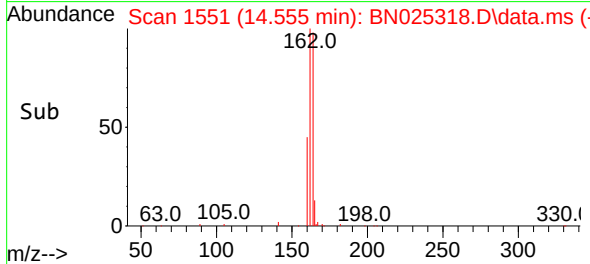
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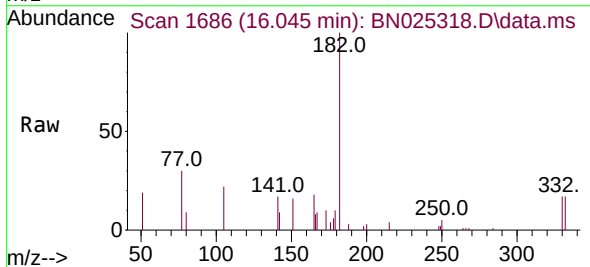
Tgt Ion:164 Resp: 17280
Ion Ratio Lower Upper
164 100
162 102.0 82.1 123.1
160 46.8 38.3 57.5

Manual Integrations
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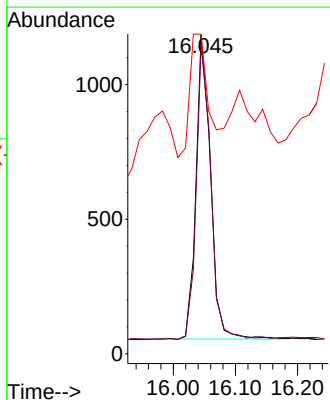
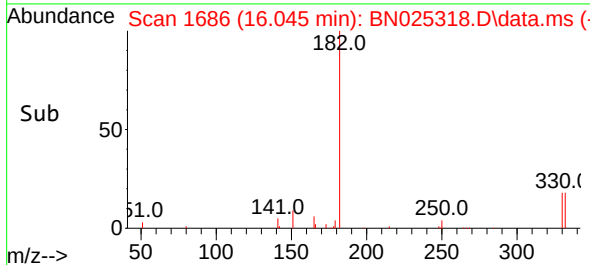
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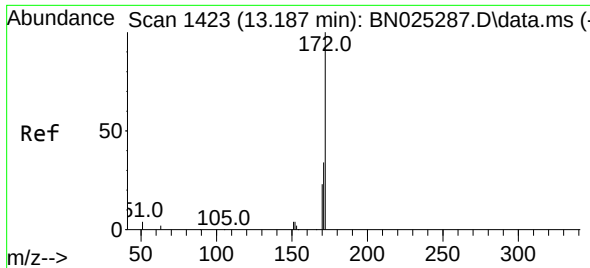


#14
2,4,6-Tribromophenol
Concen: 0.207 ng
RT: 16.045 min Scan# 1686
Delta R.T. -0.025 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32



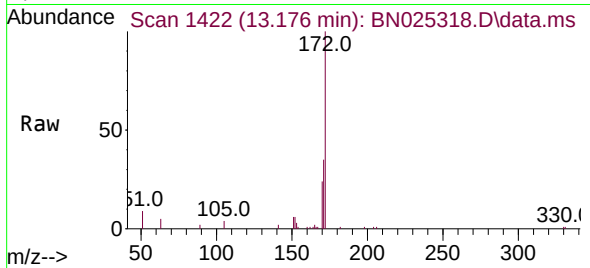
Tgt Ion:330 Resp: 1830
Ion Ratio Lower Upper
330 100
332 98.5 77.4 116.0
141 49.9 28.9 43.3#





#15
2-Fluorobiphenyl
Concen: 0.252 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

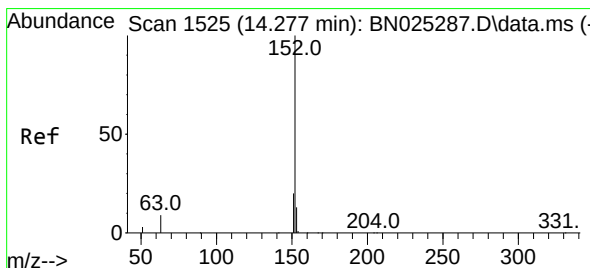
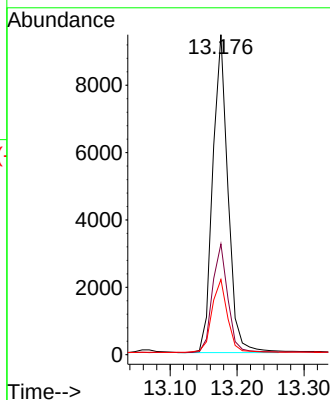
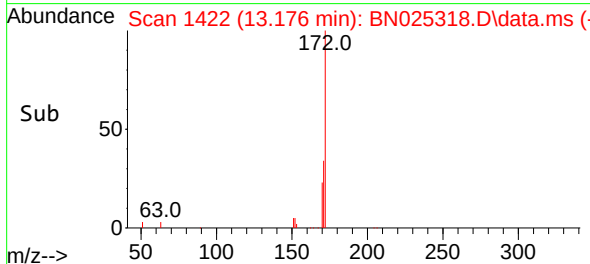
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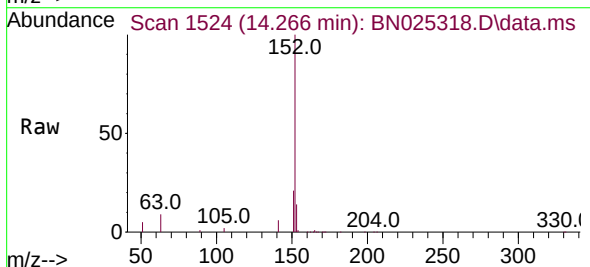
Tgt Ion:172 Resp: 14911
Ion Ratio Lower Upper
172 100
171 34.6 27.9 41.9
170 23.5 19.0 28.4

Manual Integrations
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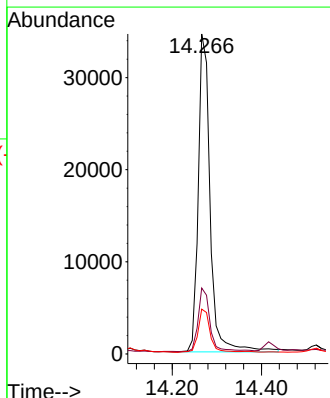
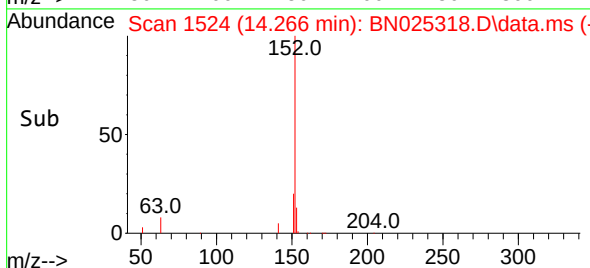
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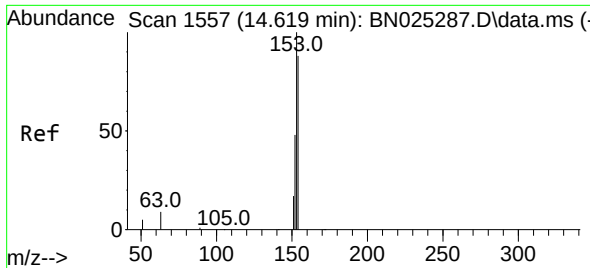


#16
Acenaphthylene
Concen: 0.828 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32



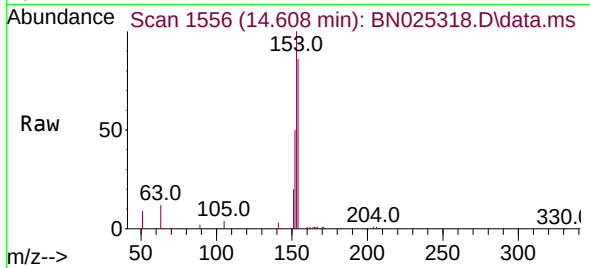
Tgt Ion:152 Resp: 64111
Ion Ratio Lower Upper
152 100
151 19.8 16.1 24.1
153 13.4 10.3 15.5





#17
Acenaphthene
Concen: 0.579 ng
RT: 14.608 min Scan# 1556
Delta R.T. -0.011 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

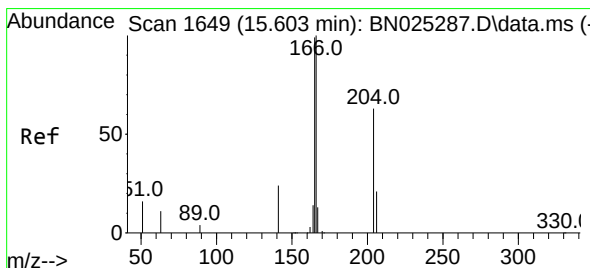
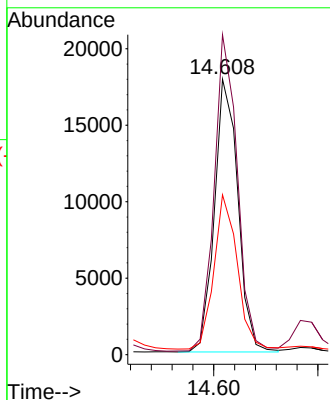
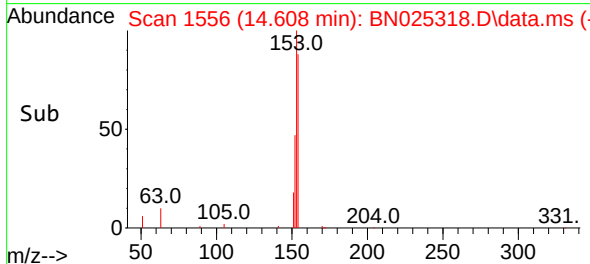
Instrument :
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Tgt Ion:154 Resp: 2788
Ion Ratio Lower Upper
154 100
153 114.8 91.3 136.9
152 56.0 44.7 67.1

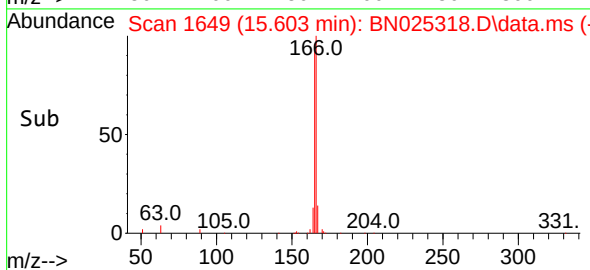
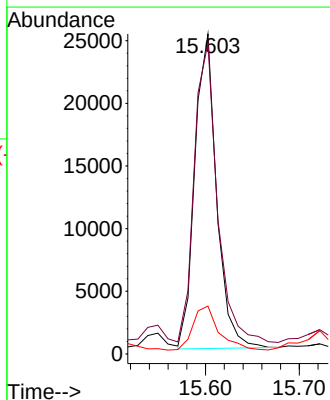
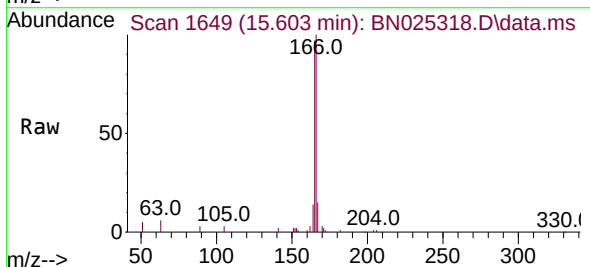
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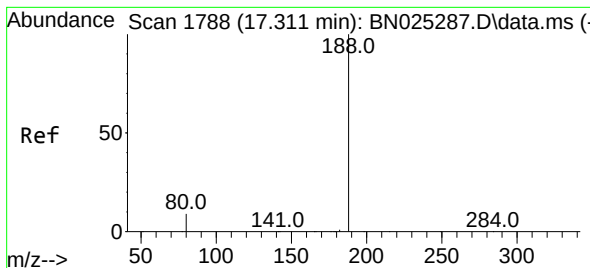
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#18
Fluorene
Concen: 0.616 ng
RT: 15.603 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

Tgt Ion:166 Resp: 40610
Ion Ratio Lower Upper
166 100
165 101.5 79.0 118.4
167 16.9 10.3 15.5#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 1787

Delta R.T. -0.013 min

Lab File: BN025318.D

Acq: 06 May 2023 16:32

Instrument :

BNA_N

ClientSampleId :

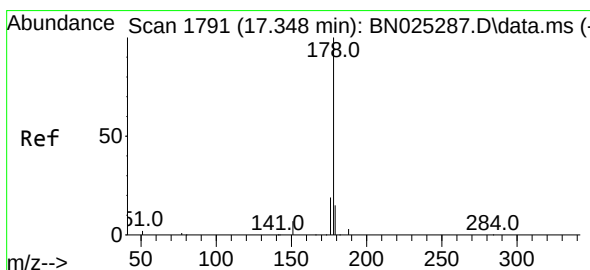
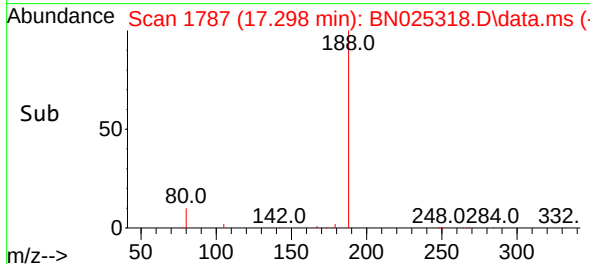
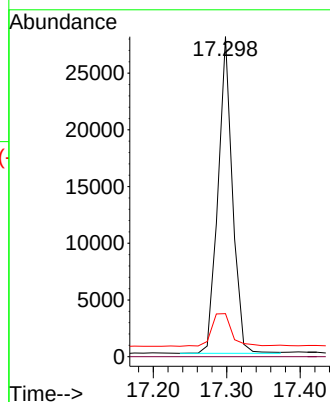
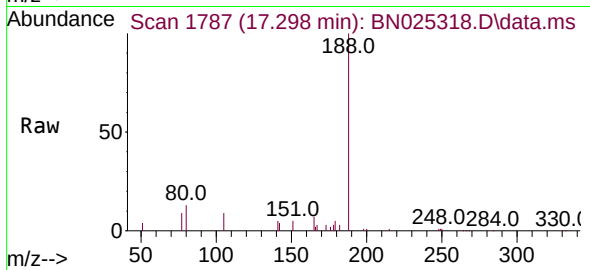
ZONE-D-3-6-05022023

Tgt Ion:188 Resp: 38214
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 13.5 8.0 12.0

Manual Integrations

APPROVED

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



#25

Phenanthrene

Concen: 6.656 ng

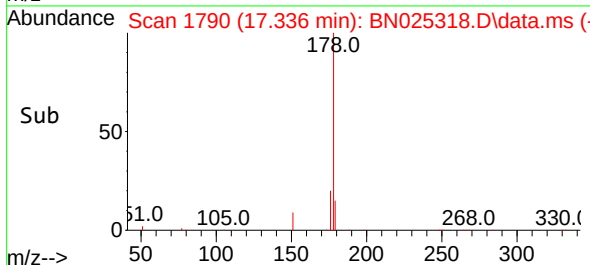
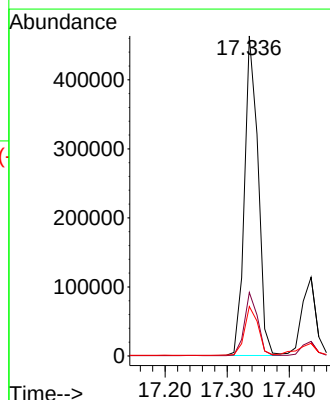
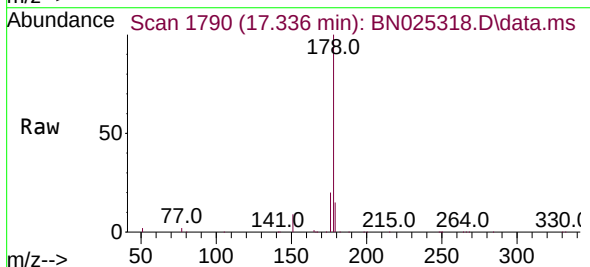
RT: 17.336 min Scan# 1790

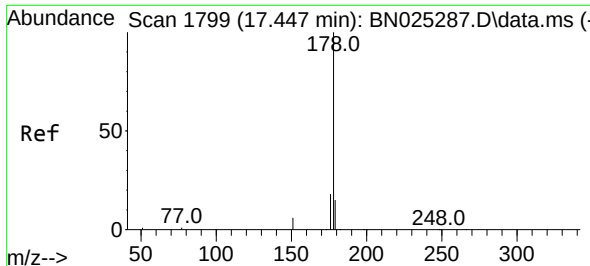
Delta R.T. -0.013 min

Lab File: BN025318.D

Acq: 06 May 2023 16:32

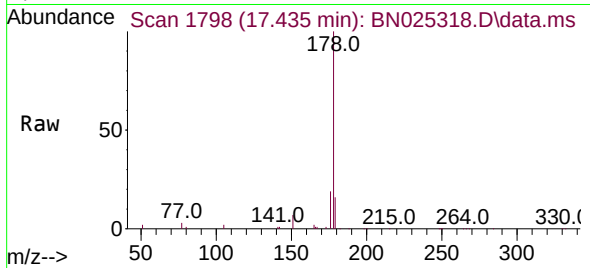
Tgt Ion:178 Resp: 703718
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.5 23.3
 179 15.5 12.4 18.6





#26
 Anthracene
 Concen: 1.685 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.013 min
 Lab File: BN025318.D
 Acq: 06 May 2023 16:32

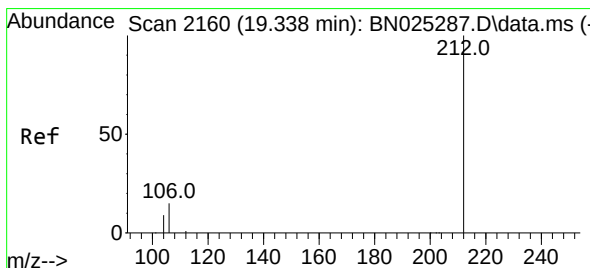
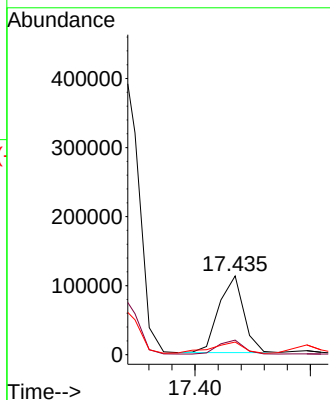
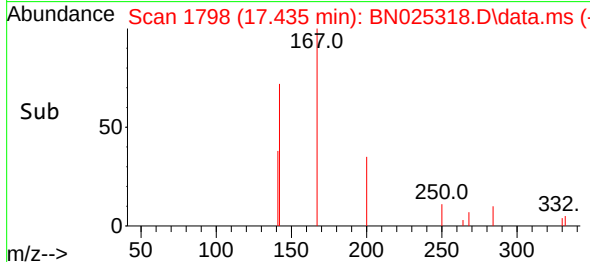
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-3-6-05022023



Tgt Ion:178 Resp: 16690
 Ion Ratio Lower Upper
 178 100
 176 19.4 14.9 22.3
 179 18.7 12.0 18.0

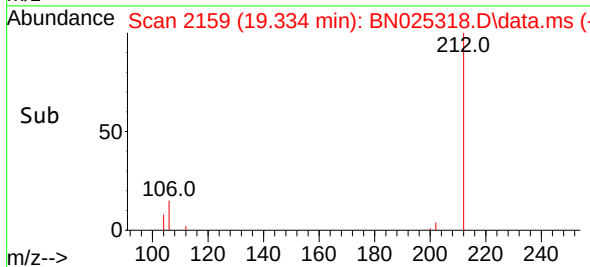
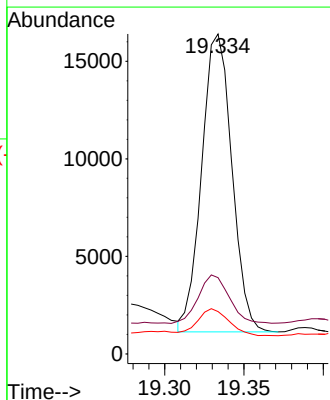
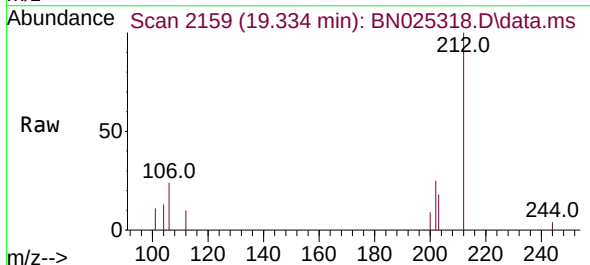
Manual Integrations
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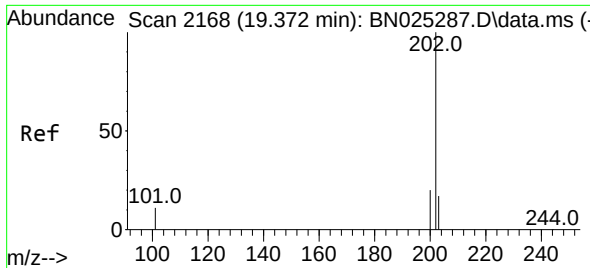
Reviewed By :Christian Giraldo 05/08/2023
 Supervised By :Jagrut Upadhyay 05/08/2023



#27
 Fluoranthene-d10
 Concen: 0.214 ng
 RT: 19.334 min Scan# 2159
 Delta R.T. -0.004 min
 Lab File: BN025318.D
 Acq: 06 May 2023 16:32

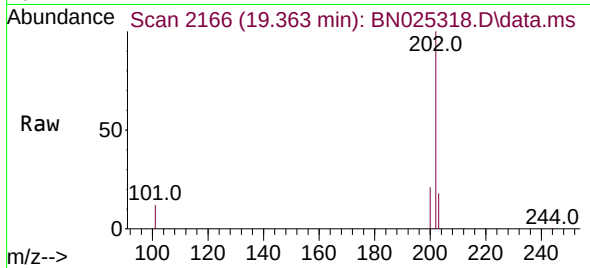
Tgt Ion:212 Resp: 20257
 Ion Ratio Lower Upper
 212 100
 106 16.3 12.6 19.0
 104 9.6 7.0 10.6





#28
Fluoranthene
Concen: 10.718 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.009 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

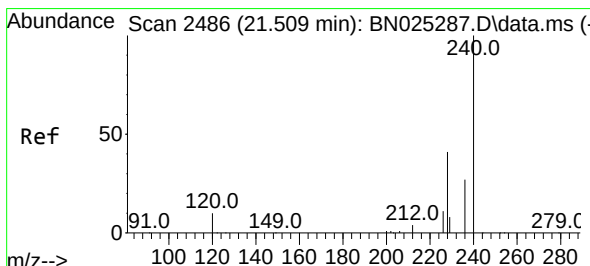
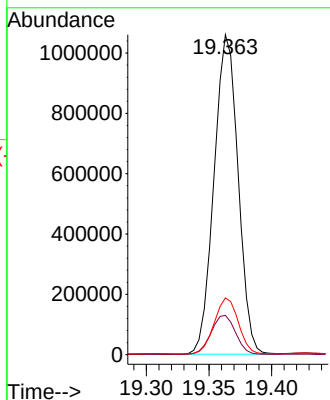
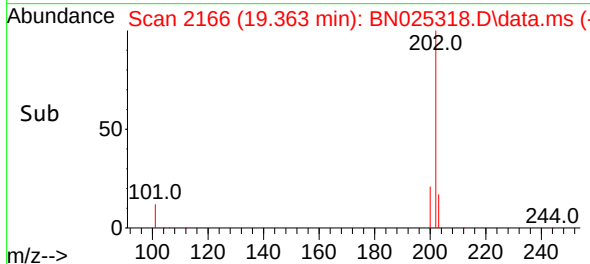
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



Tgt Ion:202 Resp: 141595
Ion Ratio Lower Upper
202 100
101 12.4 9.8 14.8
203 17.4 13.5 20.3

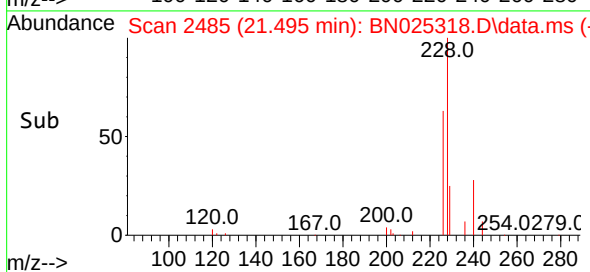
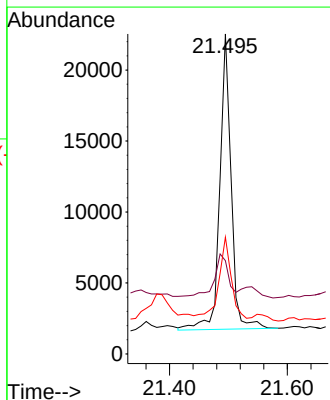
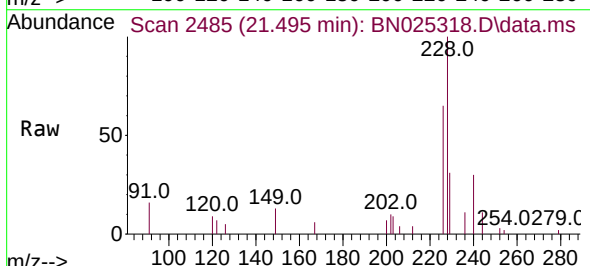
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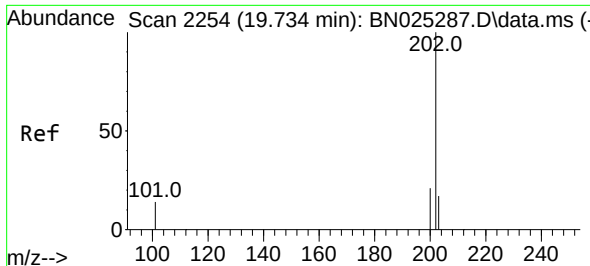
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.495 min Scan# 2485
Delta R.T. -0.014 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

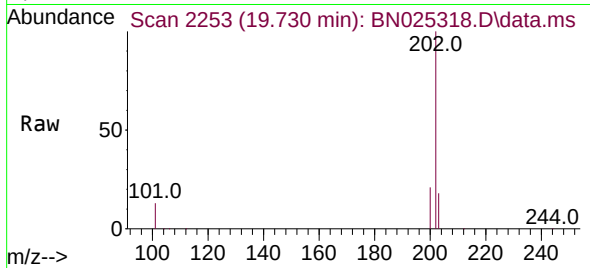
Tgt Ion:240 Resp: 27761
Ion Ratio Lower Upper
240 100
120 29.1 10.3 15.5#
236 36.5 22.3 33.5#





#30
Pyrene
Concen: 13.172 ng
RT: 19.730 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

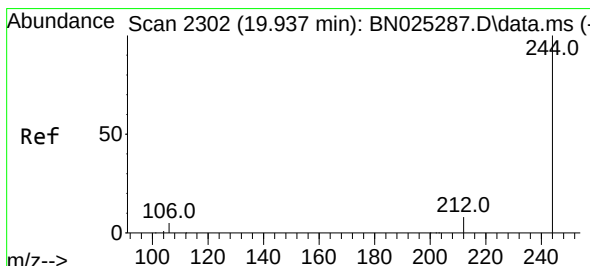
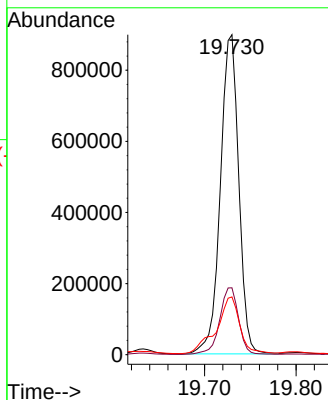
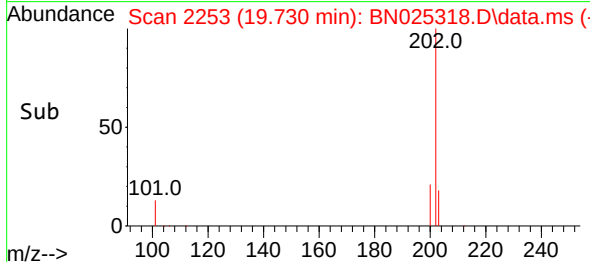
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



Tgt Ion:202 Resp: 1250054
Ion Ratio Lower Upper
202 100
200 21.3 16.8 25.2
203 22.4 14.4 21.6

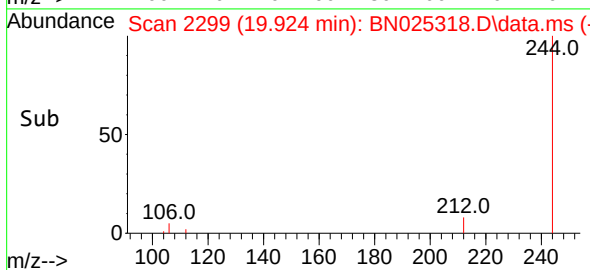
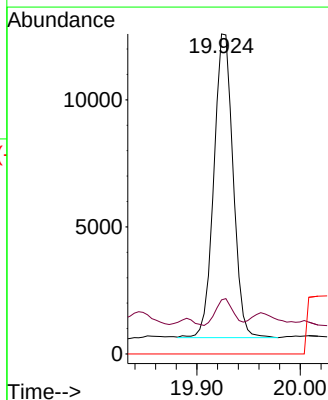
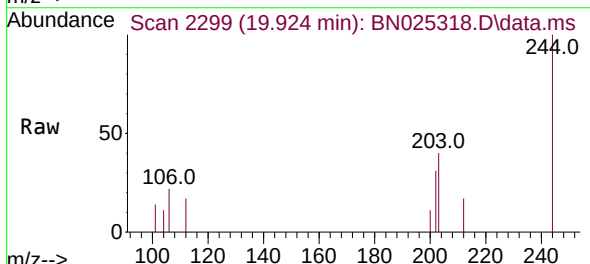
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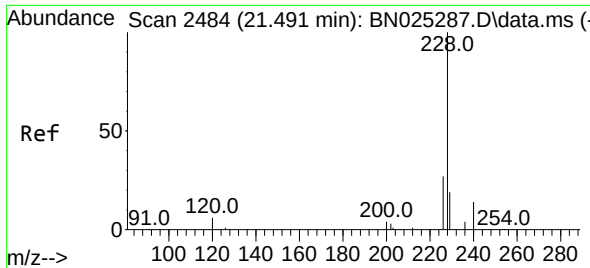
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#31
Terphenyl-d14
Concen: 0.276 ng
RT: 19.924 min Scan# 2299
Delta R.T. -0.013 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

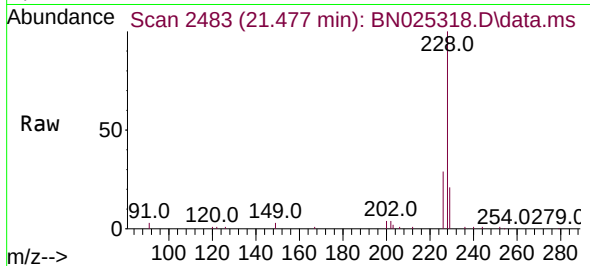
Tgt Ion:244 Resp: 15433
Ion Ratio Lower Upper
244 100
212 16.9 7.1 10.7#
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 6.491 ng
RT: 21.477 min Scan# 2483
Delta R.T. -0.014 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

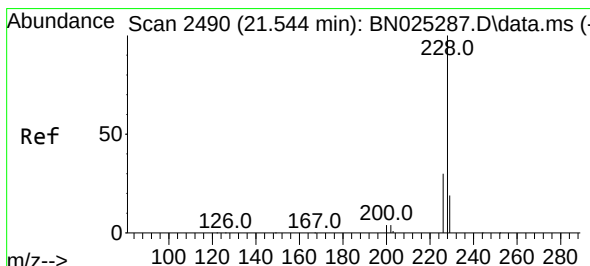
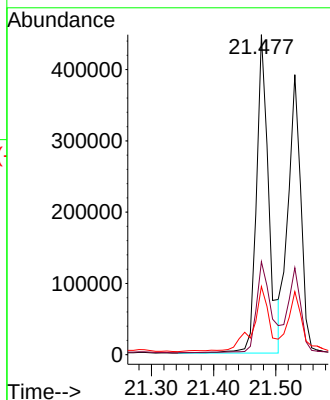
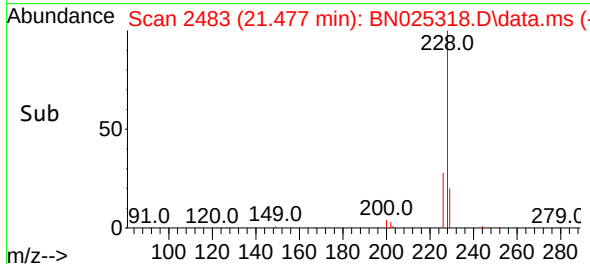
Instrument : BNA_N
ClientSampleId : ZONE-D-3-6-05022023



Tgt Ion:228 Resp: 609069
Ion Ratio Lower Upper
228 100
226 29.0 22.5 33.7
229 21.3 16.2 24.2

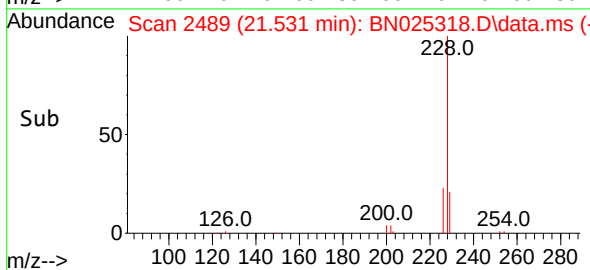
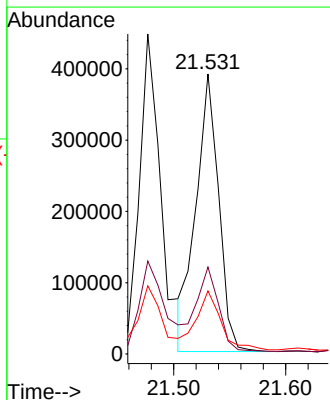
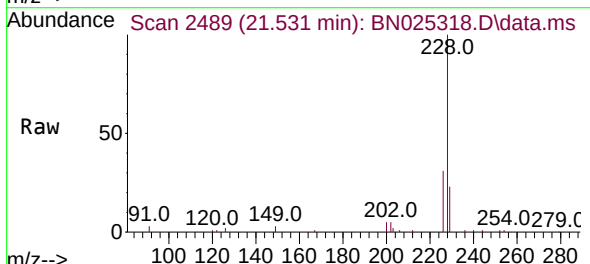
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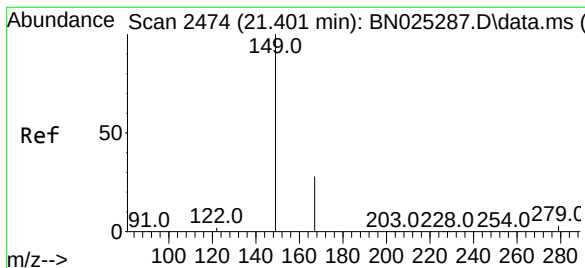
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#33
Chrysene
Concen: 5.885 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.014 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

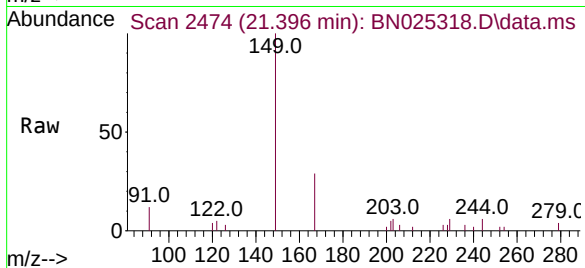
Tgt Ion:228 Resp: 549680
Ion Ratio Lower Upper
228 100
226 31.0 24.6 36.8
229 22.5 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 1.760 ng
RT: 21.396 min Scan# 2474
Delta R.T. -0.005 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

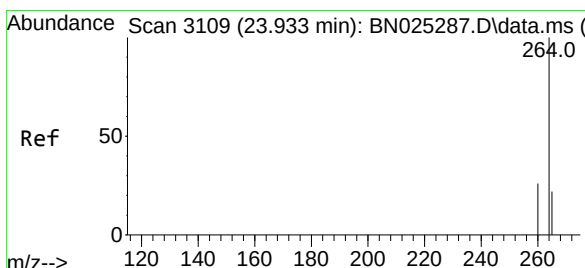
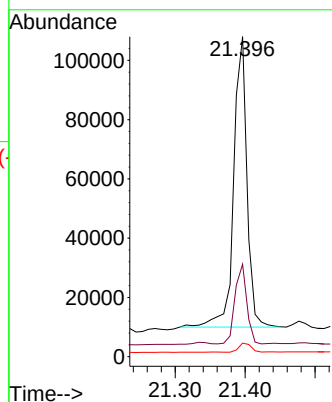
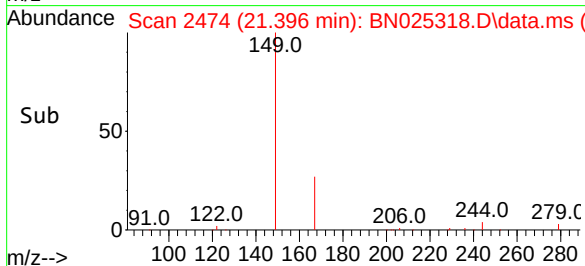
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



Tgt Ion:149 Resp: 129560
Ion Ratio Lower Upper
149 100
167 24.3 22.2 33.4
279 2.9 2.6 4.0

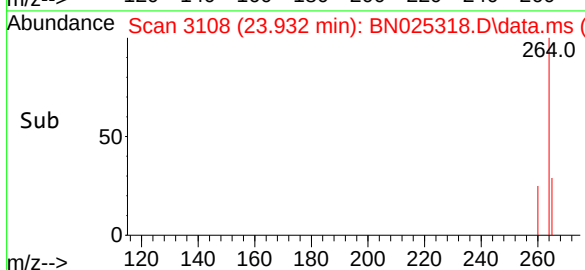
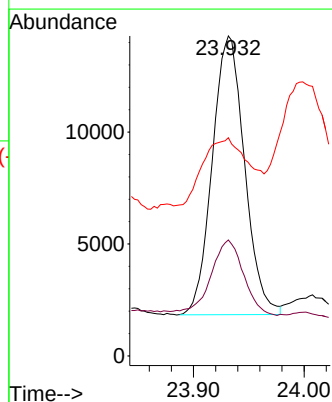
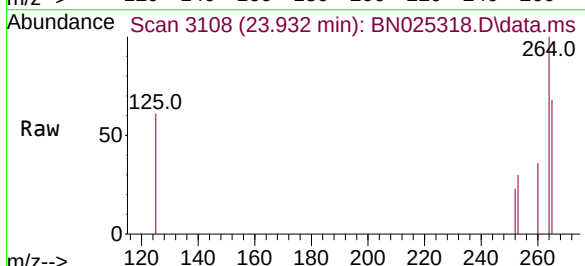
Manual Integrations
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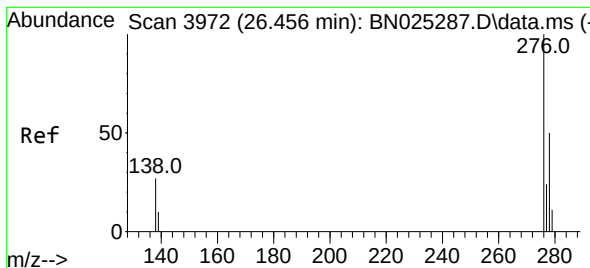
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.932 min Scan# 3108
Delta R.T. -0.002 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

Tgt Ion:264 Resp: 25252
Ion Ratio Lower Upper
264 100
260 36.2 21.5 32.3#
265 68.2 46.2 69.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 3.393 ng

RT: 26.475 min Scan# 3972

Delta R.T. 0.019 min

Lab File: BN025318.D

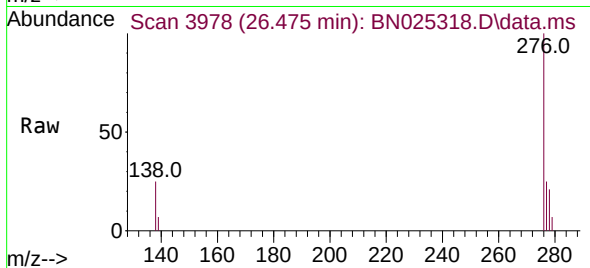
Acq: 06 May 2023 16:32

Instrument :

BNA_N

ClientSampleId :

ZONE-D-3-6-05022023



Tgt Ion:276 Resp: 34349

Ion Ratio Lower Upper

276 100

138 24.0 22.5 33.7

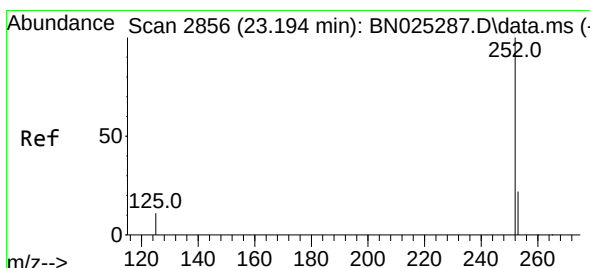
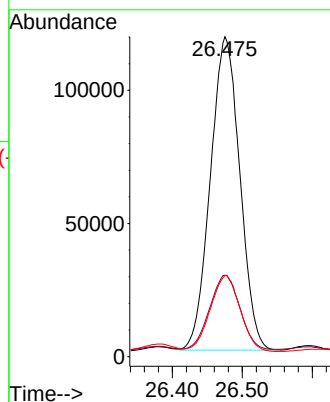
277 24.7 19.8 29.6

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: 8.756 ng

RT: 23.192 min Scan# 2855

Delta R.T. -0.002 min

Lab File: BN025318.D

Acq: 06 May 2023 16:32

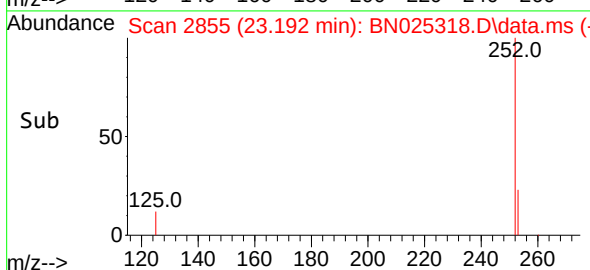
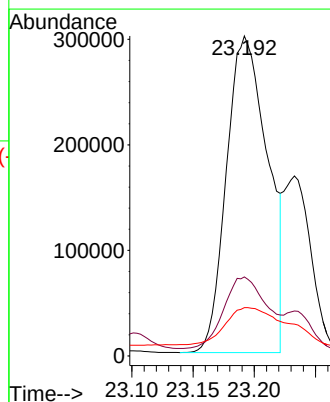
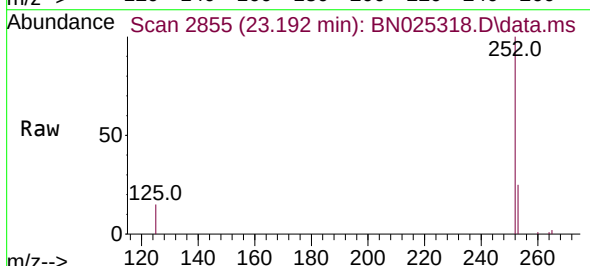
Tgt Ion:252 Resp: 700920

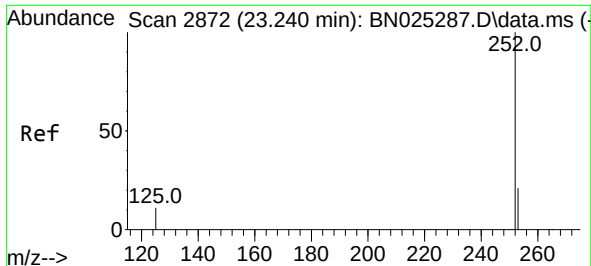
Ion Ratio Lower Upper

252 100

253 24.7 20.8 31.2

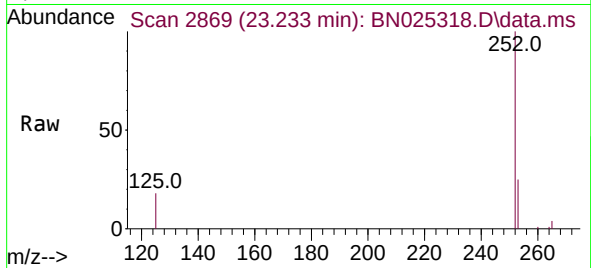
125 15.1 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 3.080 ng m
RT: 23.233 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

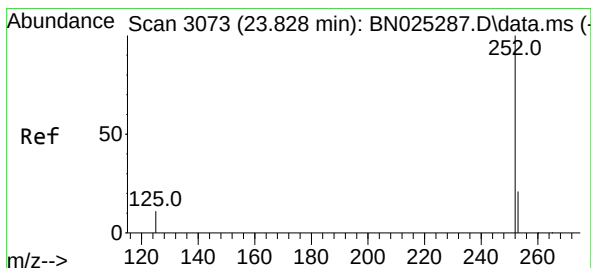
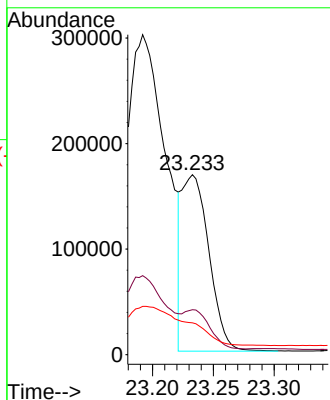
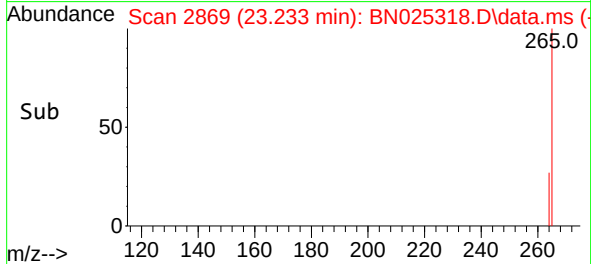
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



Tgt Ion:252 Resp: 258114
Ion Ratio Lower Upper
252 100
253 25.0 20.6 30.8
125 17.7 13.1 19.7

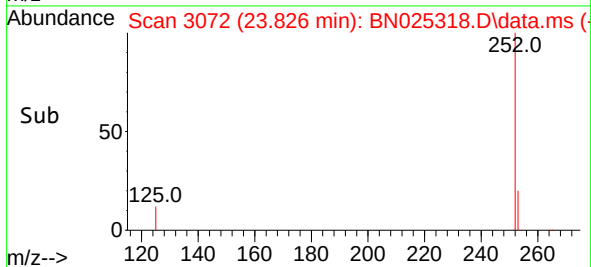
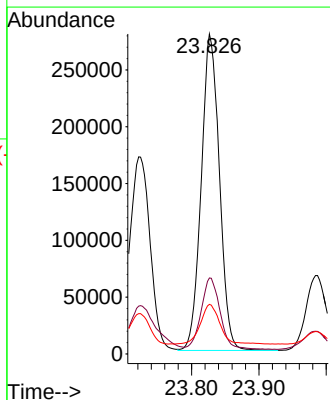
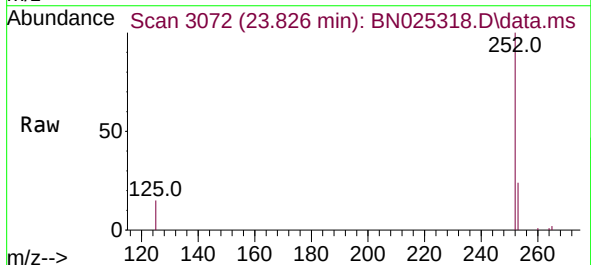
Manual Integrations
APPROVED

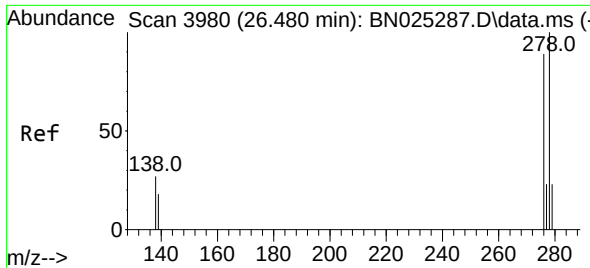
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#39
Benzo(a)pyrene
Concen: 6.372 ng
RT: 23.826 min Scan# 3072
Delta R.T. -0.002 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

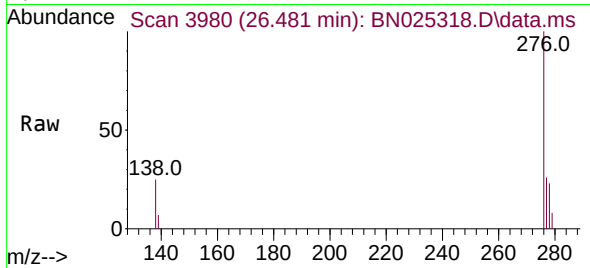
Tgt Ion:252 Resp: 522550
Ion Ratio Lower Upper
252 100
253 23.8 21.4 32.0
125 15.5 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 1.076 ng
RT: 26.481 min Scan# 3980
Delta R.T. 0.001 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32

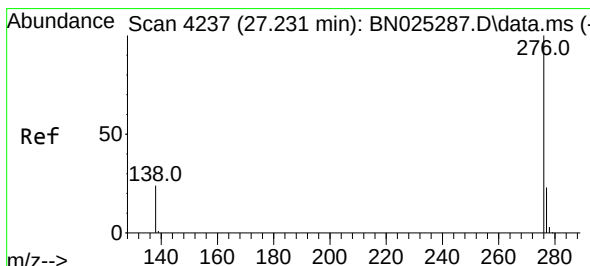
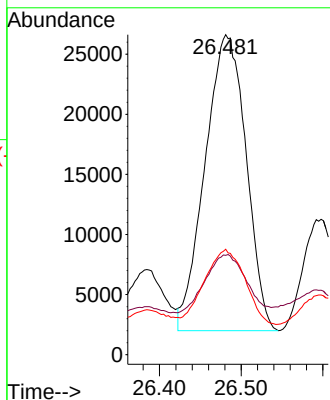
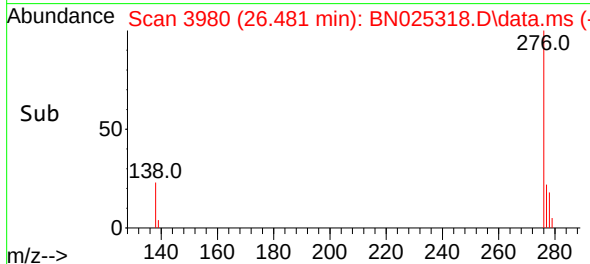
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023



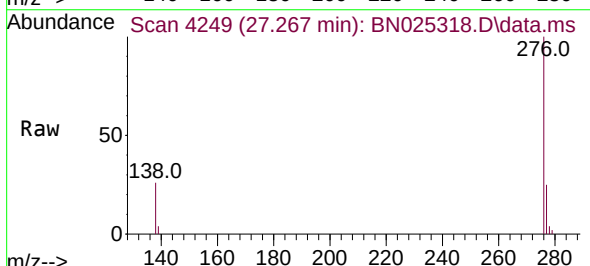
Tgt Ion: 278 Resp: 86029
Ion Ratio Lower Upper
278 100
139 31.1 17.6 26.4
279 32.9 21.6 32.4

Manual Integrations
APPROVED

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



#41
Benzo(g,h,i)perylene
Concen: 3.982 ng
RT: 27.267 min Scan# 4249
Delta R.T. 0.036 min
Lab File: BN025318.D
Acq: 06 May 2023 16:32



Tgt Ion: 276 Resp: 349596
Ion Ratio Lower Upper
276 100
277 25.2 20.1 30.1
138 25.8 21.0 31.6

