

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050923\
 Data File : BN025366.D
 Acq On : 09 May 2023 14:29
 Operator : CG/JU
 Sample : 02588-12DL 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-6-9-05022023DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/10/2023
 Supervised By : Jagrut Upadhyay 05/10/2023

Quant Time: May 10 03:58:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 09 10:18:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	6946	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	21849	0.400	ng	0.01
13) Acenaphthene-d10	14.544	164	14246	0.400	ng	0.00
19) Phenanthrene-d10	17.286	188	31633	0.400	ng	#-0.01
29) Chrysene-d12	21.491	240	29472	0.400	ng	0.00
35) Perylene-d12	23.922	264	27454	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	321	0.019	ng	0.00
5) Phenol-d6	7.102	99	348	0.016	ng	0.03
8) Nitrobenzene-d5	9.137	82	233	0.013	ng	0.06
11) 2-Methylnaphthalene-d10	12.321	152	624	0.021	ng	0.02
14) 2,4,6-Tribromophenol	16.057	330	147	0.020	ng	0.01
15) 2-Fluorobiphenyl	13.176	172	889	0.018	ng	0.00
27) Fluoranthene-d10	19.325	212	1240	0.016	ng	0.00
31) Terphenyl-d14	19.920	244	1069	0.018	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.760	128	9365	0.167	ng	98
12) 2-Methylnaphthalene	12.389	142	2763	0.070	ng	# 89
16) Acenaphthylene	14.266	152	25156	0.394	ng	99
17) Acenaphthene	14.608	154	5088	0.128	ng	97
18) Fluorene	15.592	166	15915	0.293	ng	99
25) Phenanthrene	17.336	178	221624	2.532	ng	99
26) Anthracene	17.422	178	77530	0.946	ng	99
28) Fluoranthene	19.355	202	347046	3.174	ng	99
30) Pyrene	19.721	202	265140	2.632	ng	99
32) Benzo(a)anthracene	21.473	228	144615	1.452	ng	99
33) Chrysene	21.526	228	119920	1.209	ng	99
34) Bis(2-ethylhexyl)phtha...	21.383	149	4241	0.054	ng	# 96
36) Indeno(1,2,3-cd)pyrene	26.456	276	52476	0.477	ng	95
37) Benzo(b)fluoranthene	23.182	252	137129	1.576	ng	94
38) Benzo(k)fluoranthene	23.226	252	52096m	0.572	ng	
39) Benzo(a)pyrene	23.819	252	100812m	1.131	ng	
40) Dibenzo(a,h)anthracene	26.468	278	12573	0.145	ng	# 82
41) Benzo(g,h,i)perylene	27.237	276	47652	0.499	ng	100

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

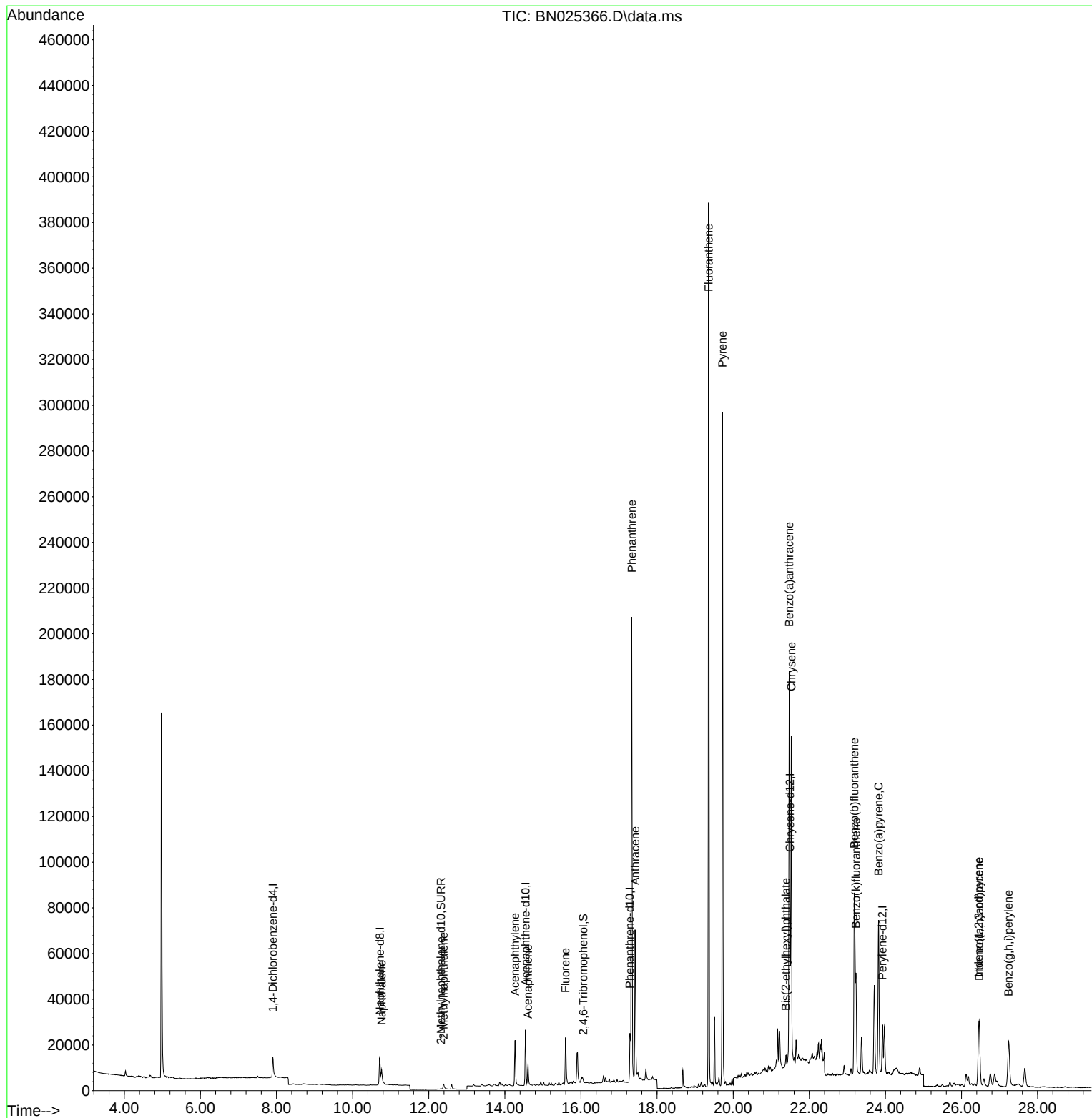
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050923\
Data File : BN025366.D
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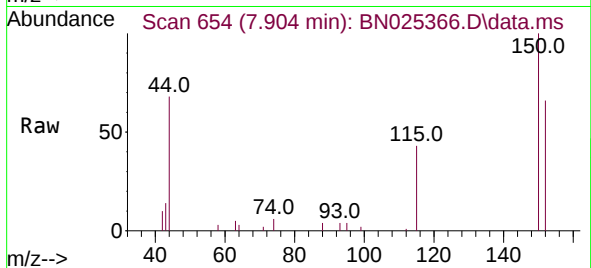
Quant Time: May 10 03:58:41 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 09 10:18:02 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

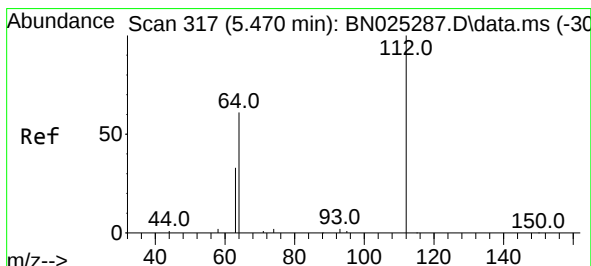
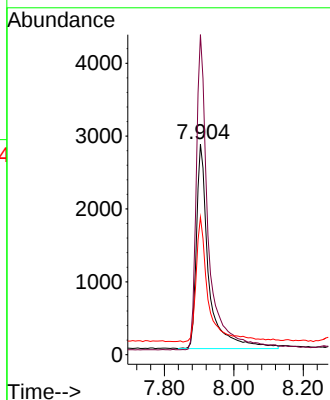
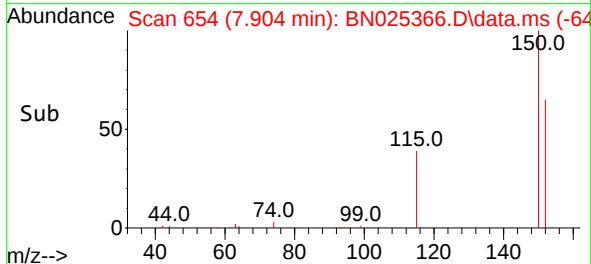
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:152 Resp: 6940
Ion Ratio Lower Upper
152 100
150 152.0 123.8 185.8
115 65.3 52.9 79.3

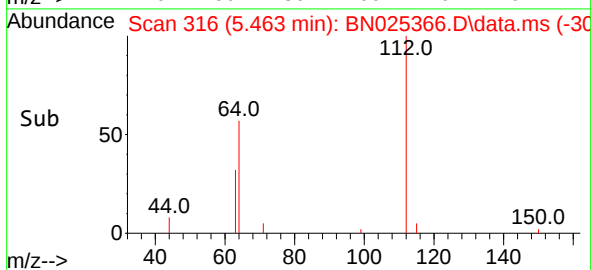
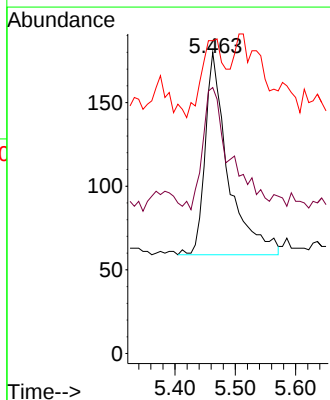
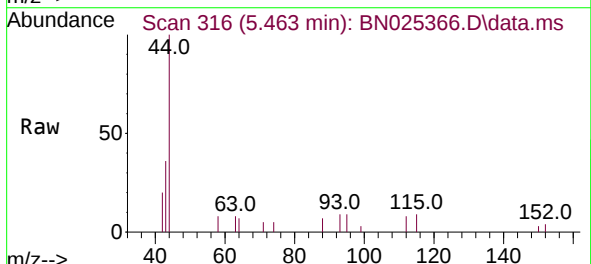
Manual Integrations
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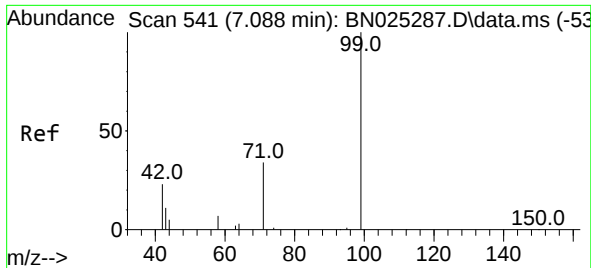
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#4
2-Fluorophenol
Concen: 0.019 ng
RT: 5.463 min Scan# 316
Delta R.T. 0.007 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

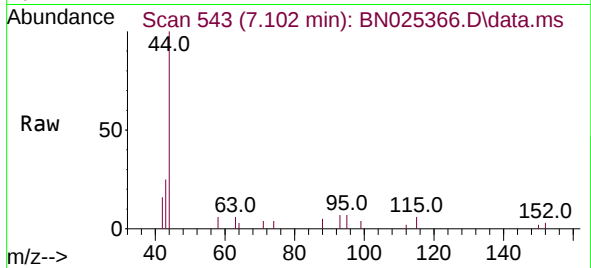
Tgt Ion:112 Resp: 321
Ion Ratio Lower Upper
112 100
64 67.3 51.5 77.3
63 36.8 27.8 41.6





#5
Phenol-d6
Concen: 0.016 ng
RT: 7.102 min Scan# 541
Delta R.T. 0.029 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

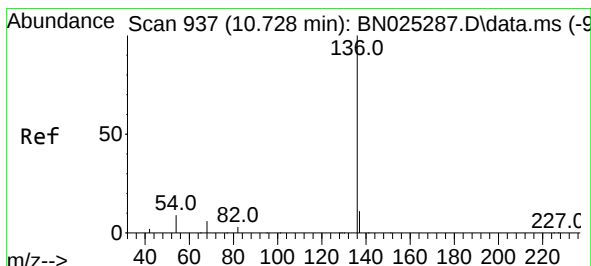
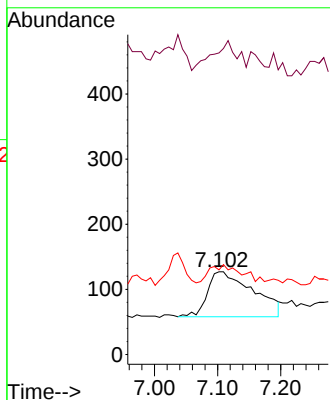
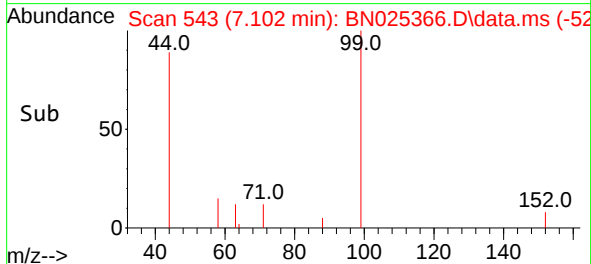
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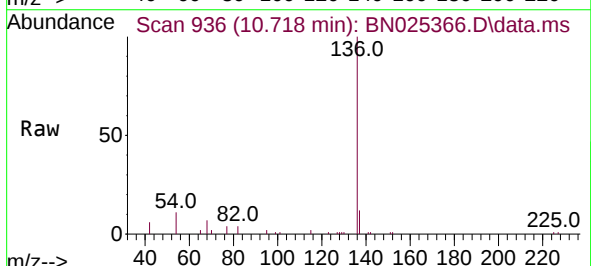
Tgt Ion: 99 Resp: 348
Ion Ratio Lower Upper
99 100
42 0.0 22.0 33.0
71 10.1 28.7 43.1

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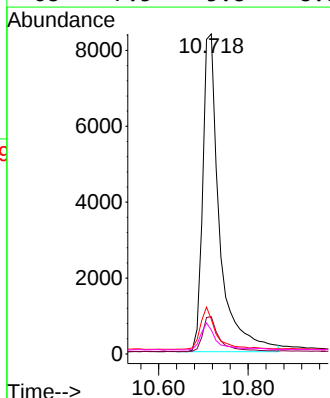
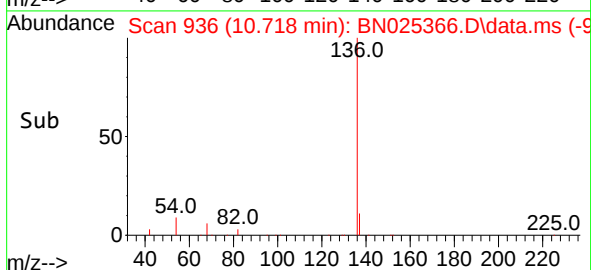
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

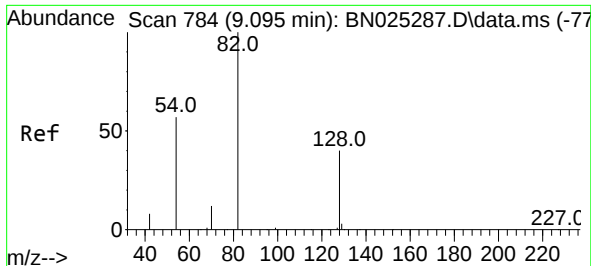


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. 0.011 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29



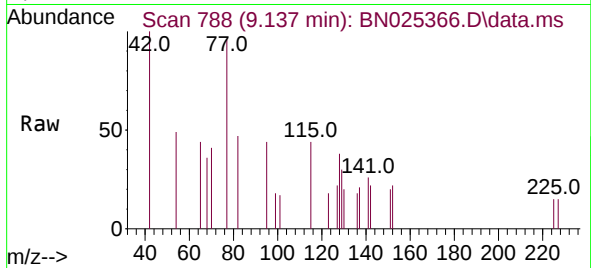
Tgt Ion:136 Resp: 21849
Ion Ratio Lower Upper
136 100
137 11.7 9.4 14.2
54 10.8 8.5 12.7
68 7.5 5.8 8.8





#8
Nitrobenzene-d5
Concen: 0.013 ng
RT: 9.137 min Scan# 71
Delta R.T. 0.064 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

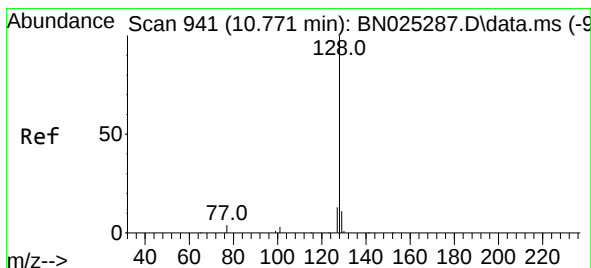
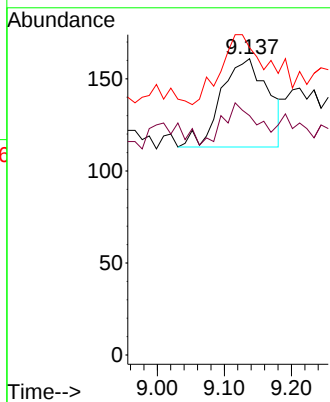
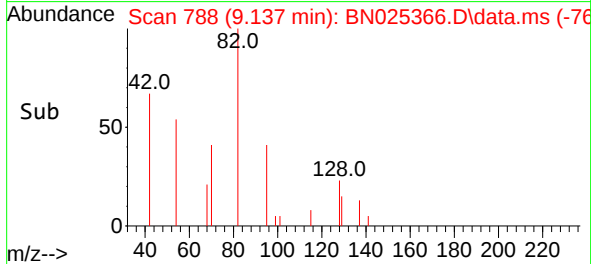
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion: 82 Resp: 233
Ion Ratio Lower Upper
82 100
128 80.7 35.3 52.9
54 103.7 48.7 73.1

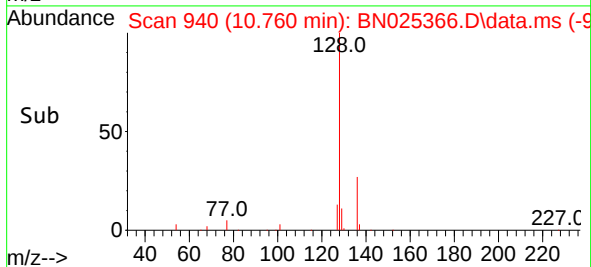
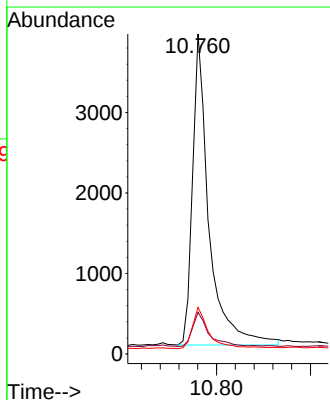
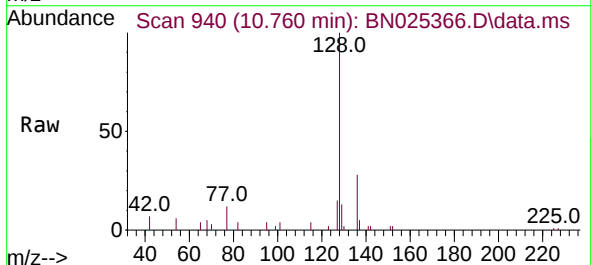
Manual Integrations
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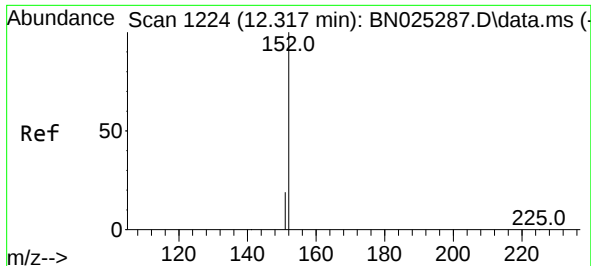
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#9
Naphthalene
Concen: 0.167 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

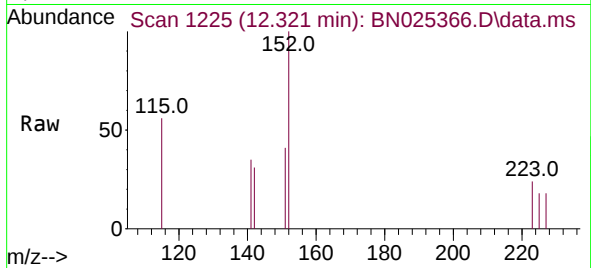
Tgt Ion:128 Resp: 9365
Ion Ratio Lower Upper
128 100
129 13.0 9.4 14.2
127 14.6 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.021 ng
RT: 12.321 min Scan# 11
Delta R.T. 0.019 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

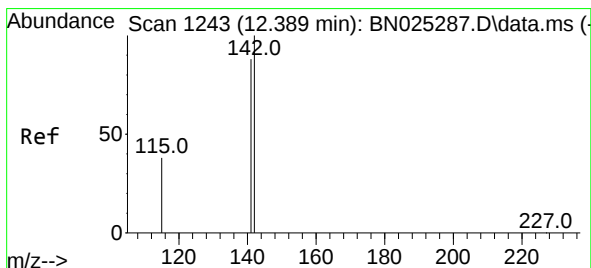
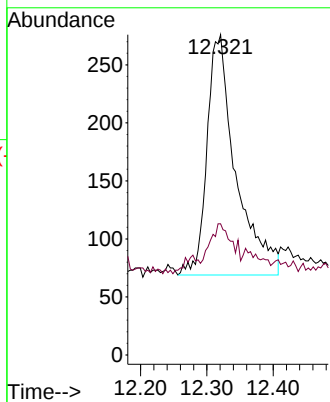
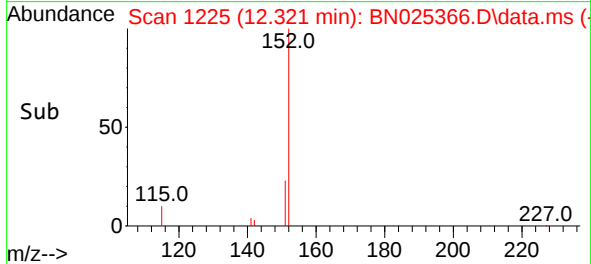
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:152 Resp: 624
Ion Ratio Lower Upper
152 100
151 14.3 16.4 24.6

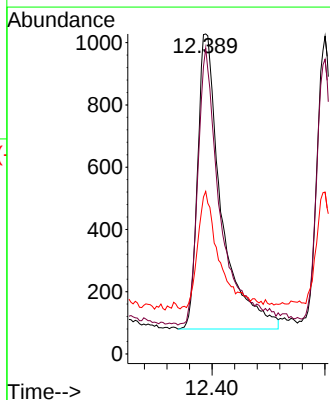
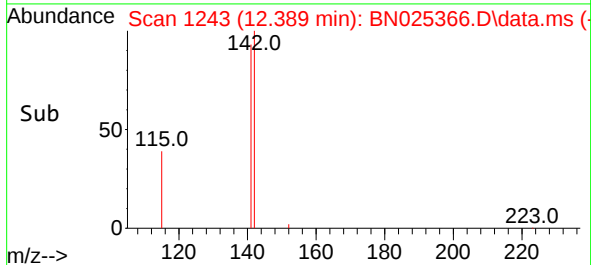
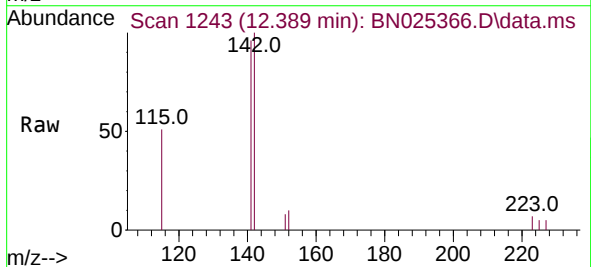
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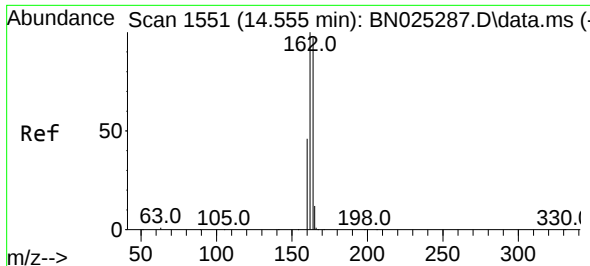
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#12
2-Methylnaphthalene
Concen: 0.070 ng
RT: 12.389 min Scan# 1243
Delta R.T. 0.011 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

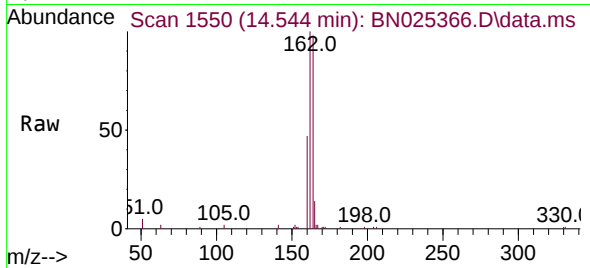
Tgt Ion:142 Resp: 2763
Ion Ratio Lower Upper
142 100
141 95.6 70.5 105.7
115 50.8 31.6 47.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.544 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

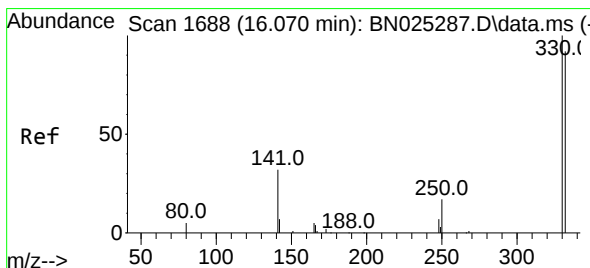
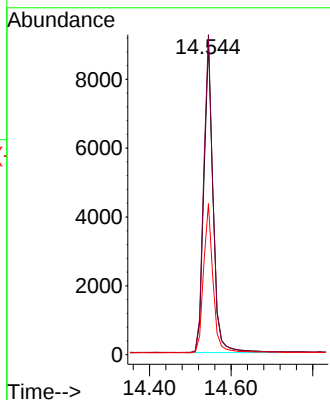
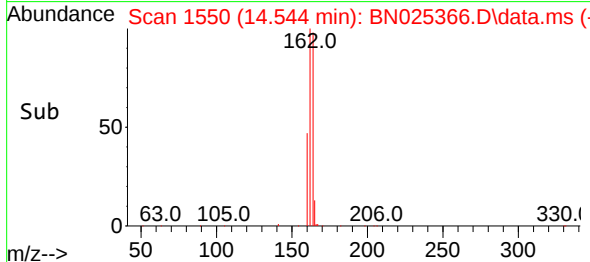
Instrument :
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ZONE-D-6-9-05022023DL



Tgt Ion:164 Resp: 14240
Ion Ratio Lower Upper
164 100
162 102.0 82.1 123.1
160 48.2 38.3 57.5

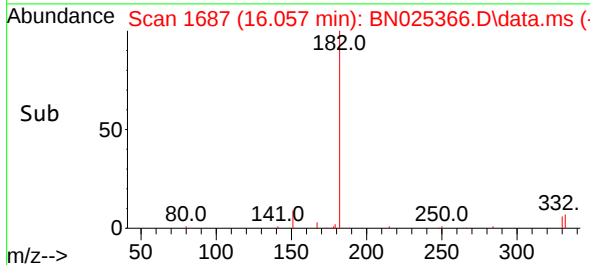
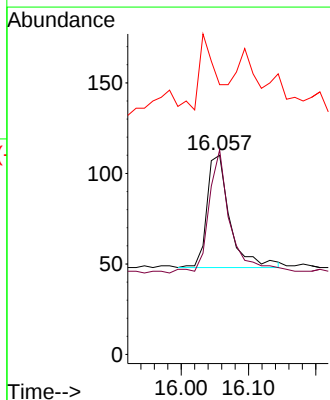
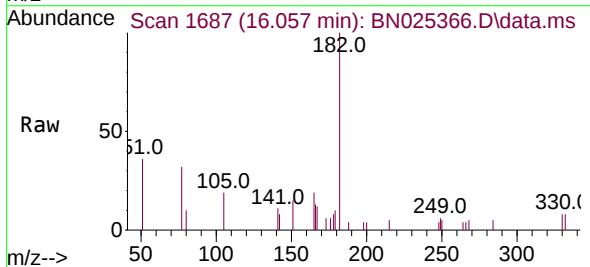
Manual Integrations
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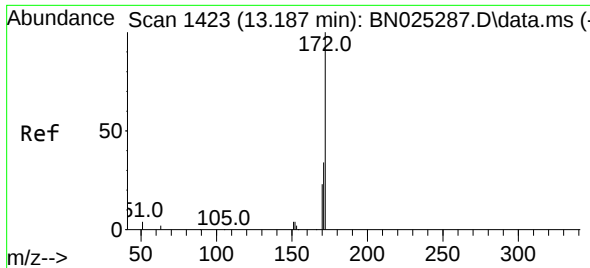
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#14
2,4,6-Tribromophenol
Concen: 0.020 ng
RT: 16.057 min Scan# 1687
Delta R.T. 0.012 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

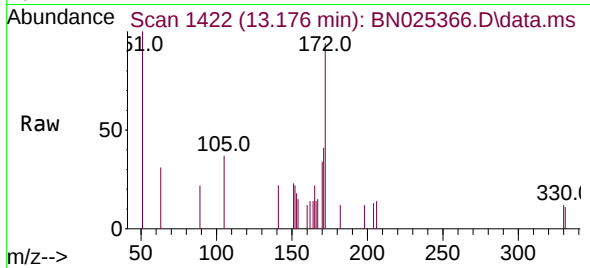
Tgt Ion:330 Resp: 147
Ion Ratio Lower Upper
330 100
332 102.0 77.4 116.0
141 0.0 28.9 43.3#





#15
2-Fluorobiphenyl
Concen: 0.018 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

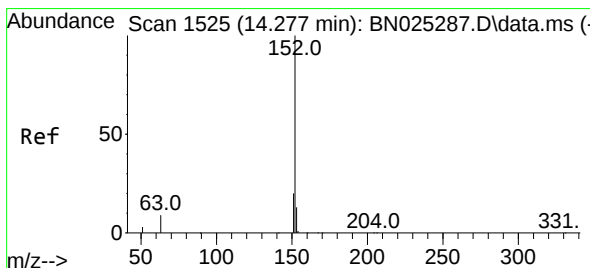
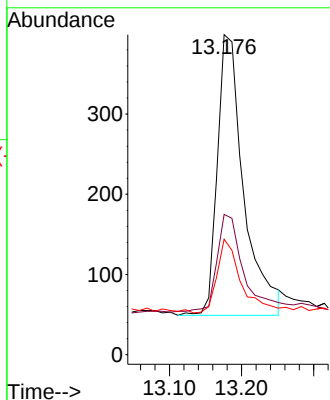
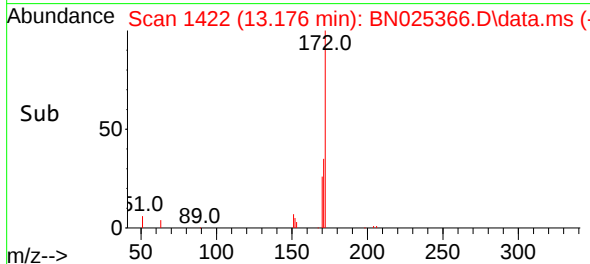
Instrument :
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ZONE-D-6-9-05022023DL



Tgt Ion:172 Resp: 889
Ion Ratio Lower Upper
172 100
171 43.9 27.9 41.9
170 36.1 19.0 28.4

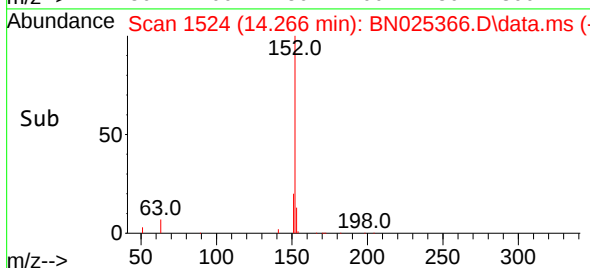
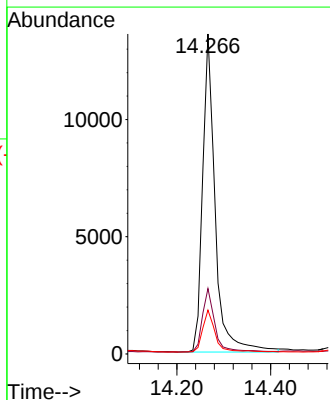
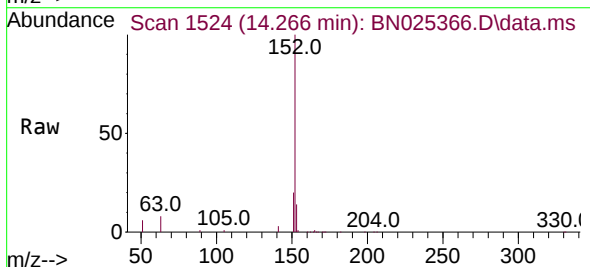
Manual Integrations
APPROVED

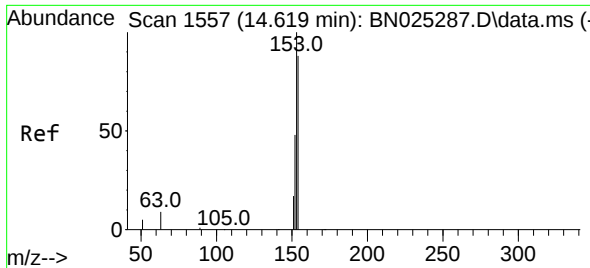
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#16
Acenaphthylene
Concen: 0.394 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

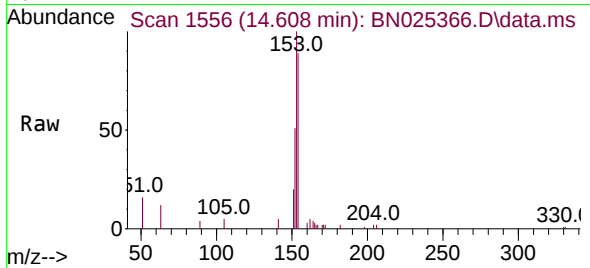
Tgt Ion:152 Resp: 25156
Ion Ratio Lower Upper
152 100
151 19.9 16.1 24.1
153 13.3 10.3 15.5





#17
Acenaphthene
Concen: 0.128 ng
RT: 14.608 min Scan# 1556
Delta R.T. 0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

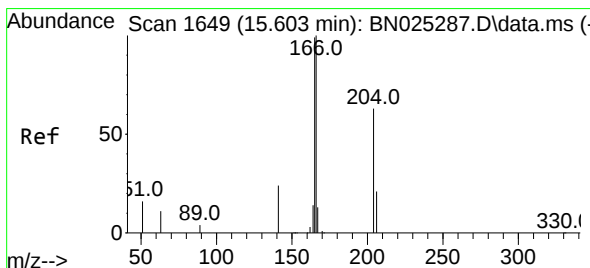
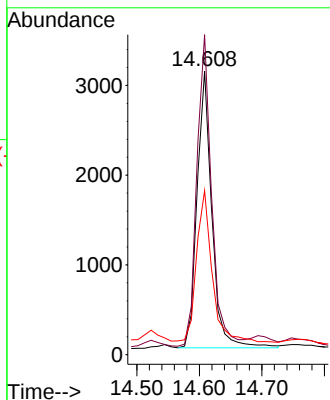
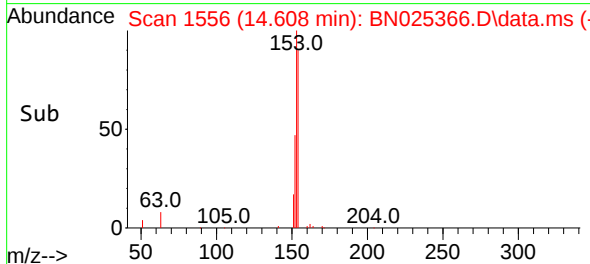
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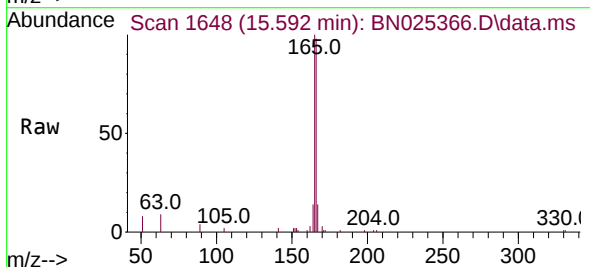
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Ion Ratio Lower Upper
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152 58.2 44.7 67.1

Manual Integrations
APPROVED

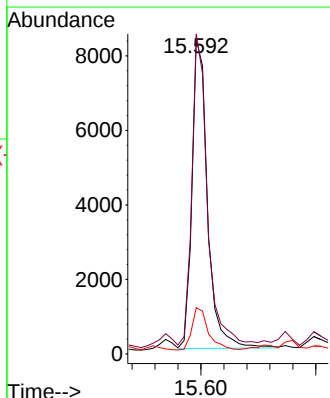
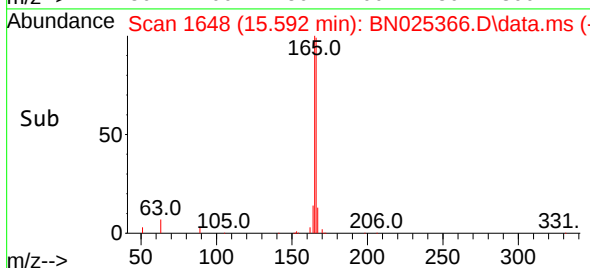
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

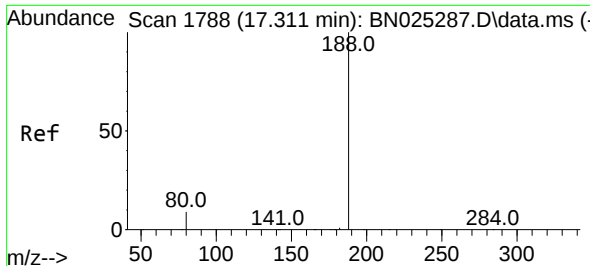


#18
Fluorene
Concen: 0.293 ng
RT: 15.592 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29



Tgt Ion:166 Resp: 15915
Ion Ratio Lower Upper
166 100
165 97.5 79.0 118.4
167 14.2 10.3 15.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.286 min Scan# 1788

Delta R.T. -0.012 min

Lab File: BN025366.D

Acq: 09 May 2023 14:29

Instrument :

BNA_N

ClientSampleId :

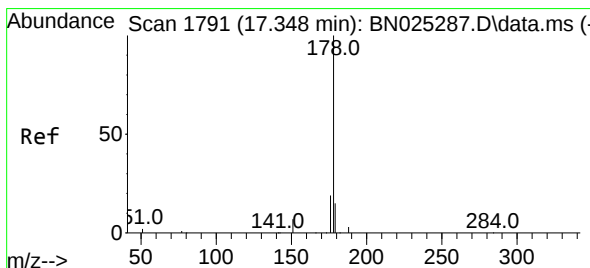
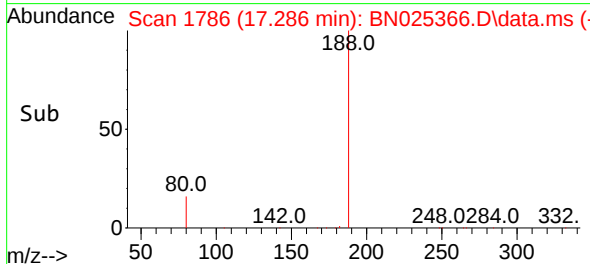
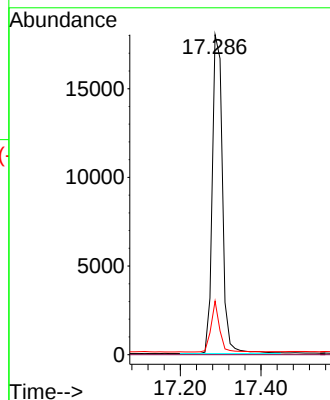
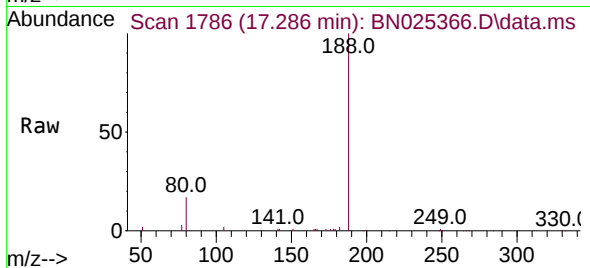
ZONE-D-6-9-05022023DL

Tgt Ion:188 Resp: 31633
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 16.7 8.0 12.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#25

Phenanthrene

Concen: 2.532 ng

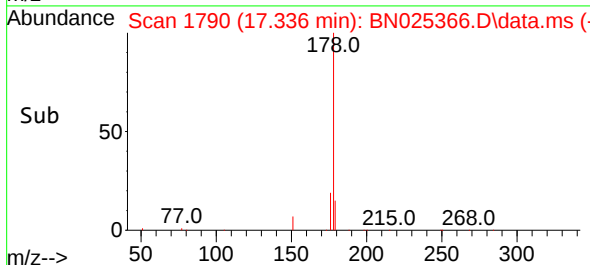
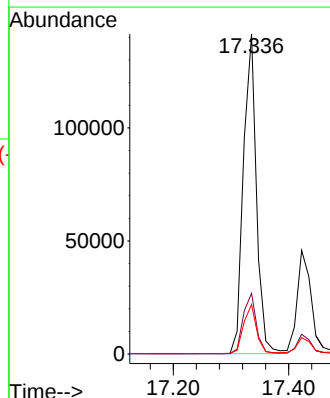
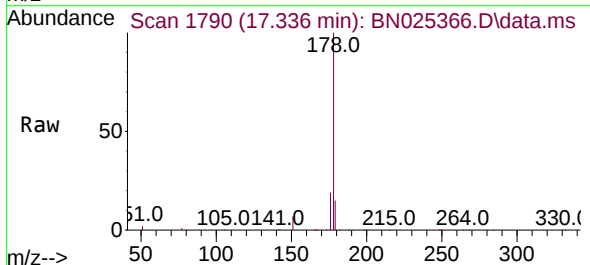
RT: 17.336 min Scan# 1790

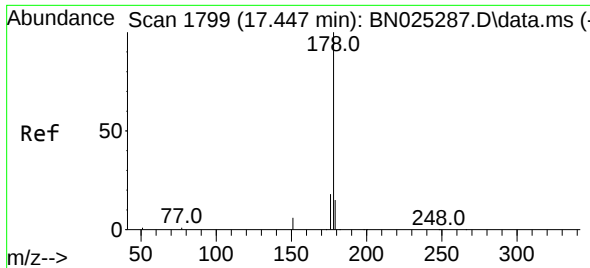
Delta R.T. -0.000 min

Lab File: BN025366.D

Acq: 09 May 2023 14:29

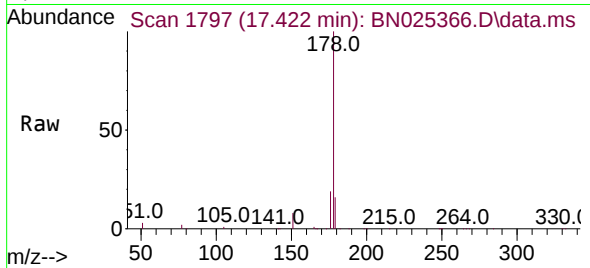
Tgt Ion:178 Resp: 221624
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.5 23.3
 179 15.3 12.4 18.6





#26
 Anthracene
 Concen: 0.946 ng
 RT: 17.422 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN025366.D
 Acq: 09 May 2023 14:29

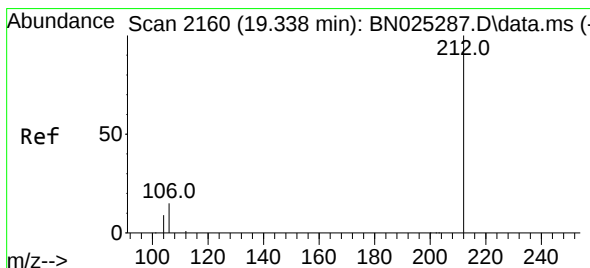
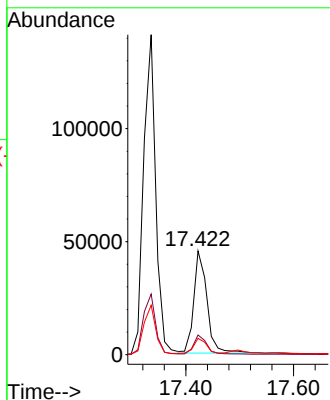
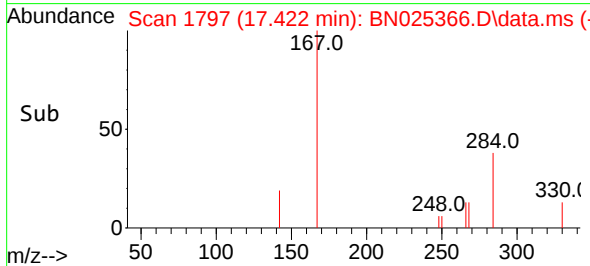
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-6-9-05022023DL



Tgt Ion:178 Resp: 77530
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.9 22.3
 179 14.0 12.0 18.0

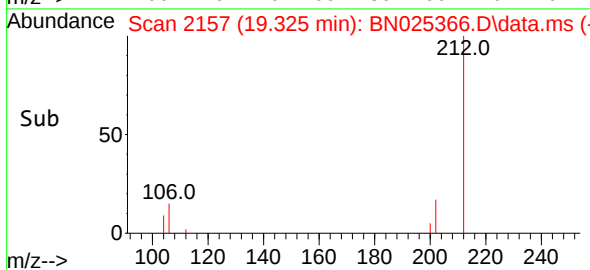
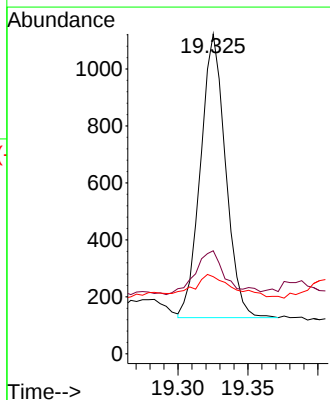
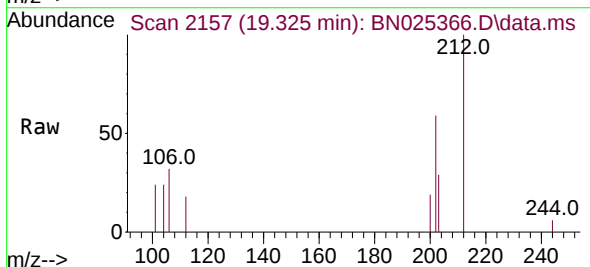
Manual Integrations
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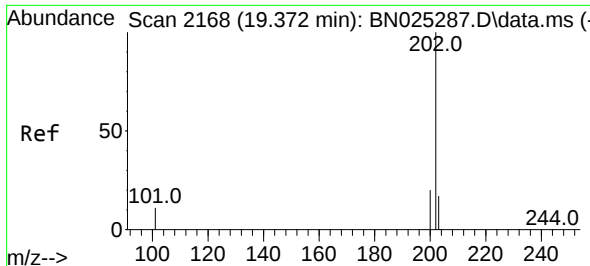
Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#27
 Fluoranthene-d10
 Concen: 0.016 ng
 RT: 19.325 min Scan# 2157
 Delta R.T. -0.004 min
 Lab File: BN025366.D
 Acq: 09 May 2023 14:29

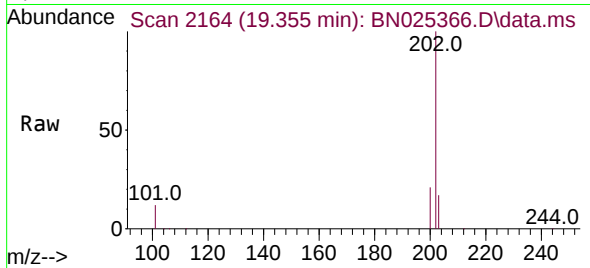
Tgt Ion:212 Resp: 1240
 Ion Ratio Lower Upper
 212 100
 106 17.4 12.6 19.0
 104 13.6 7.0 10.6#





#28
Fluoranthene
Concen: 3.174 ng
RT: 19.355 min Scan# 2164
Delta R.T. -0.004 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

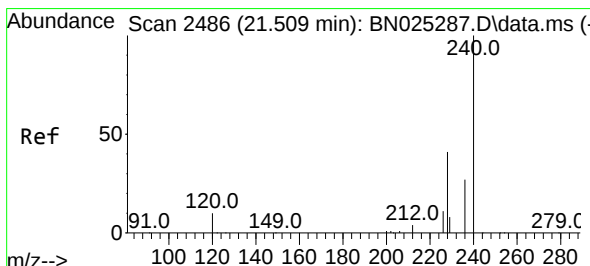
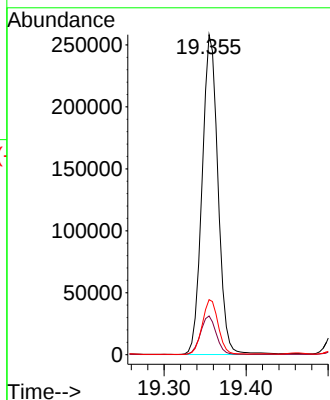
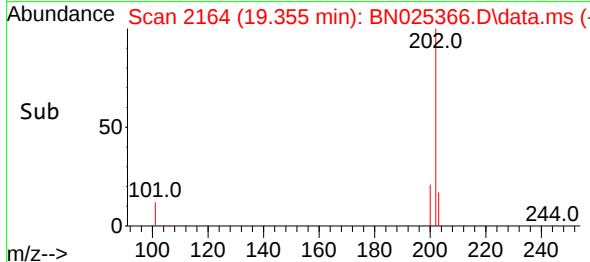
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:202 Resp: 347040
Ion Ratio Lower Upper
202 100
101 12.0 9.8 14.8
203 17.2 13.5 20.3

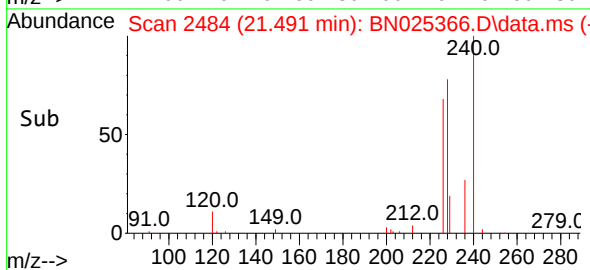
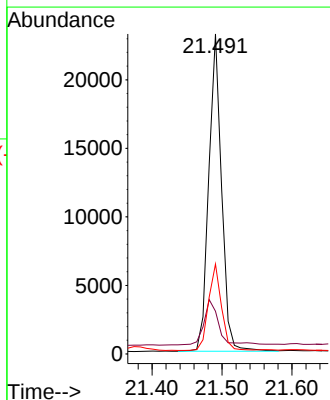
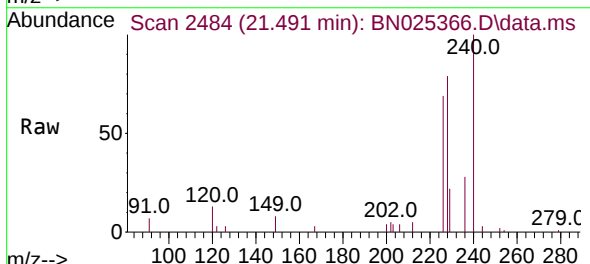
Manual Integrations
APPROVED

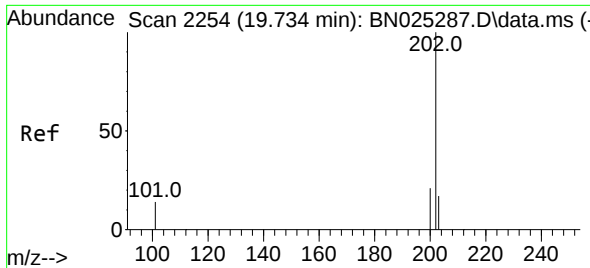
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.491 min Scan# 2484
Delta R.T. 0.005 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

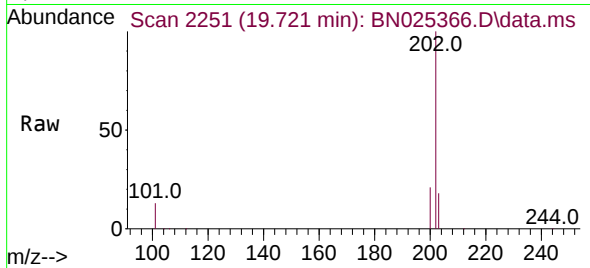
Tgt Ion:240 Resp: 29472
Ion Ratio Lower Upper
240 100
120 13.3 10.3 15.5
236 28.1 22.3 33.5





#30
Pyrene
Concen: 2.632 ng
RT: 19.721 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

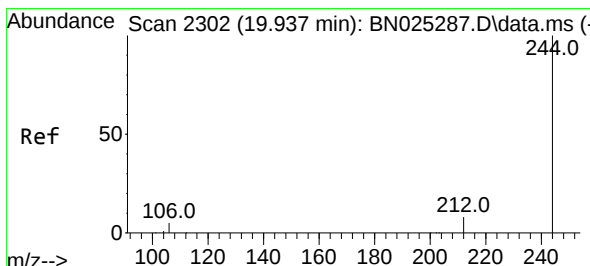
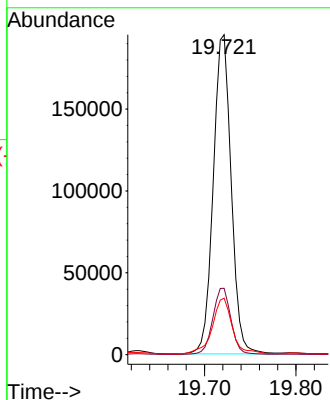
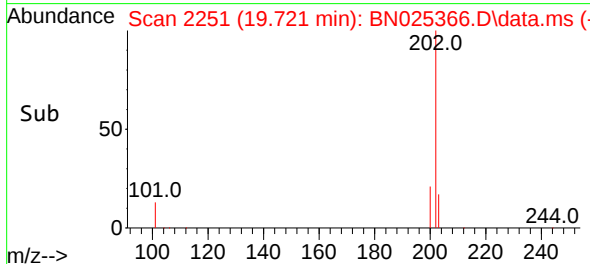
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:202 Resp: 265140
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 19.4 14.4 21.6

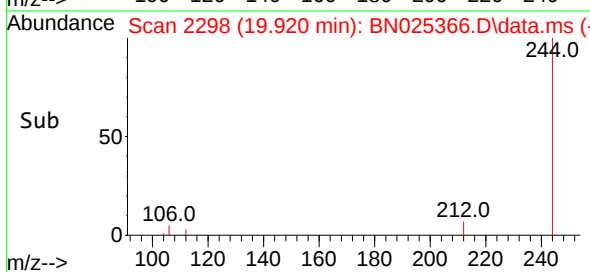
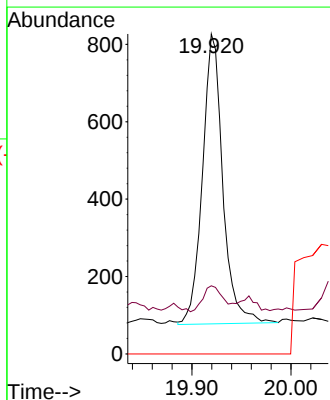
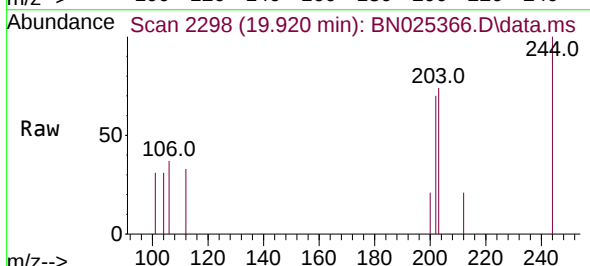
Manual Integrations
APPROVED

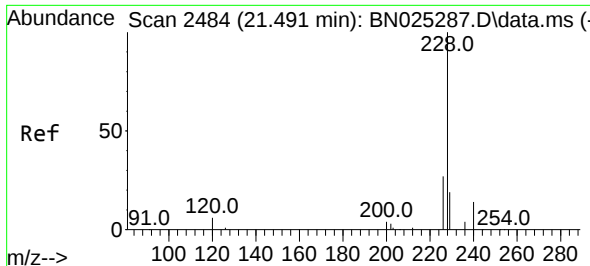
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#31
Terphenyl-d14
Concen: 0.018 ng
RT: 19.920 min Scan# 2298
Delta R.T. -0.004 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

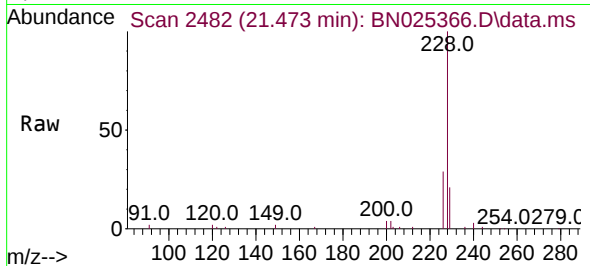
Tgt Ion:244 Resp: 1069
Ion Ratio Lower Upper
244 100
212 21.3 7.1 10.7#
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 1.452 ng
RT: 21.473 min Scan# 2482
Delta R.T. 0.005 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

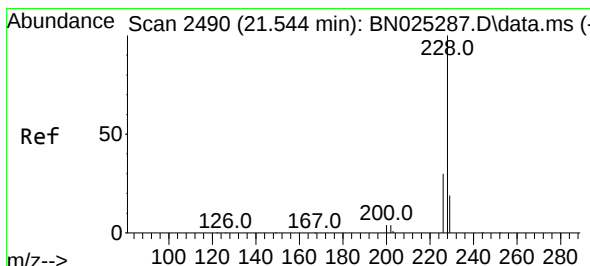
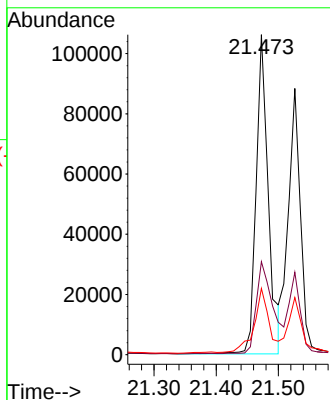
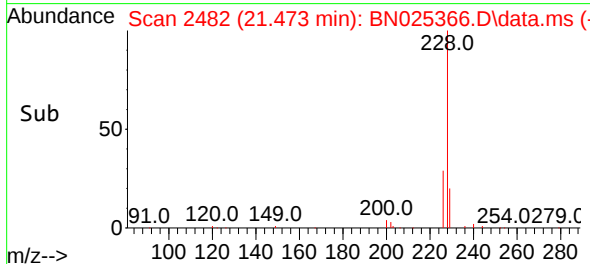
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:228 Resp: 144615
Ion Ratio Lower Upper
228 100
226 29.0 22.5 33.7
229 20.7 16.2 24.2

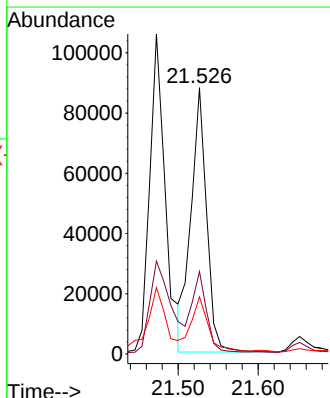
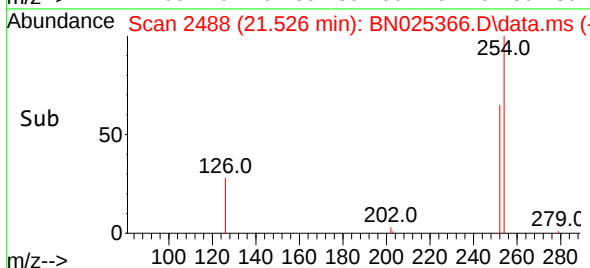
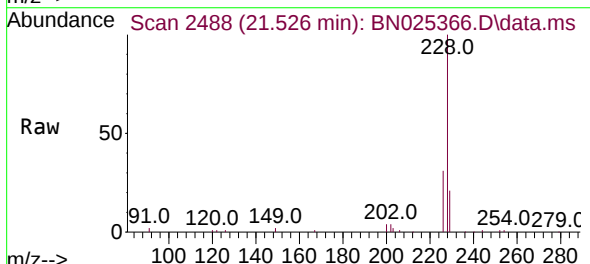
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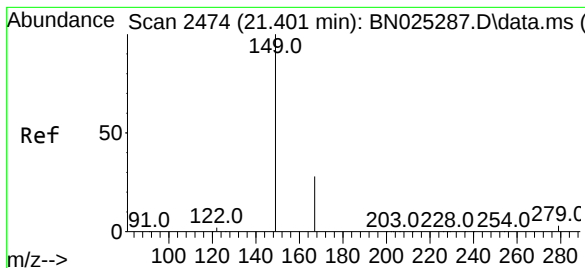
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#33
Chrysene
Concen: 1.209 ng
RT: 21.526 min Scan# 2488
Delta R.T. 0.005 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

Tgt Ion:228 Resp: 119920
Ion Ratio Lower Upper
228 100
226 30.9 24.6 36.8
229 21.4 16.2 24.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.054 ng

RT: 21.383 min Scan# 2474

Delta R.T. 0.005 min

Lab File: BN025366.D

Acq: 09 May 2023 14:29

Instrument :

BNA_N

ClientSampleId :

ZONE-D-6-9-05022023DL

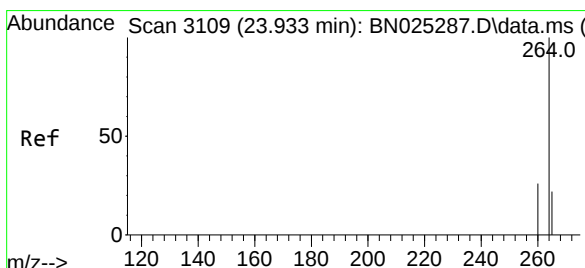
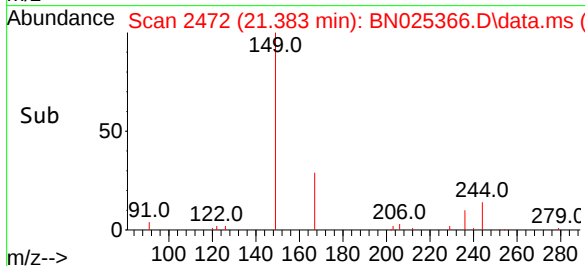
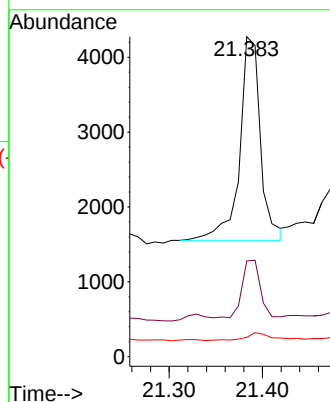
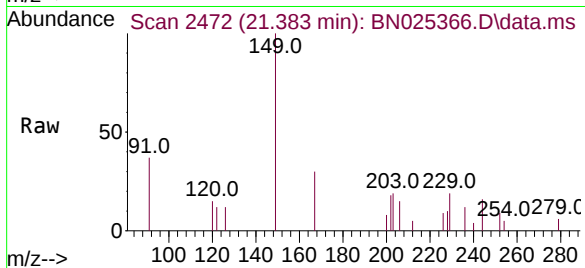
Tgt Ion:	149	Resp:	424
Ion Ratio	Lower	Upper	
149	100		
167	25.6	22.2	33.4
279	5.1	2.6	4.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/10/2023

Supervised By :Jagrut Upadhyay 05/10/2023



#35

Perylene-d12

Concen: 0.400 ng

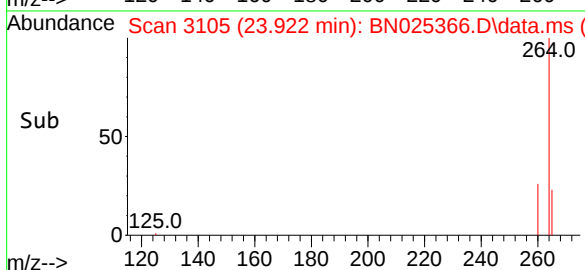
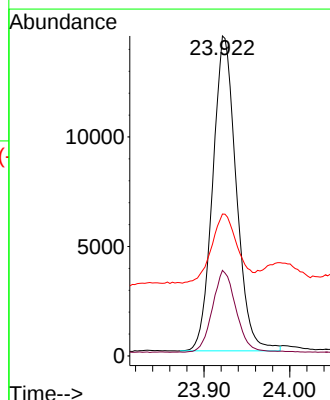
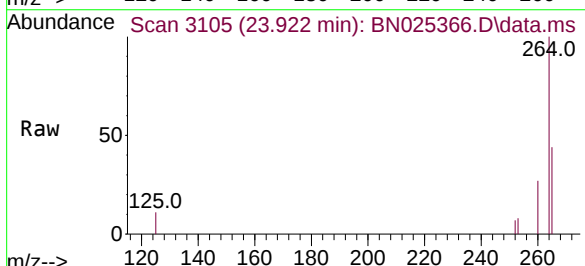
RT: 23.922 min Scan# 3105

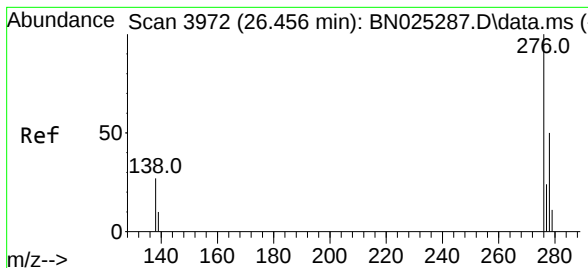
Delta R.T. 0.010 min

Lab File: BN025366.D

Acq: 09 May 2023 14:29

Tgt Ion:	264	Resp:	27454
Ion Ratio	Lower	Upper	
264	100		
260	26.7	21.5	32.3
265	44.4	46.2	69.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.477 ng

RT: 26.456 min Scan# 3972

Delta R.T. -0.001 min

Lab File: BN025366.D

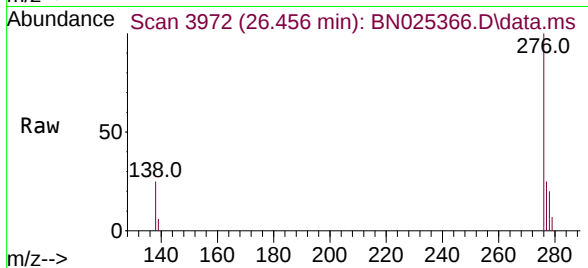
Acq: 09 May 2023 14:29

Instrument :

BNA_N

ClientSampleId :

ZONE-D-6-9-05022023DL



Tgt Ion:276 Resp: 52470

Ion Ratio Lower Upper

276 100

138 23.8 22.5 33.7

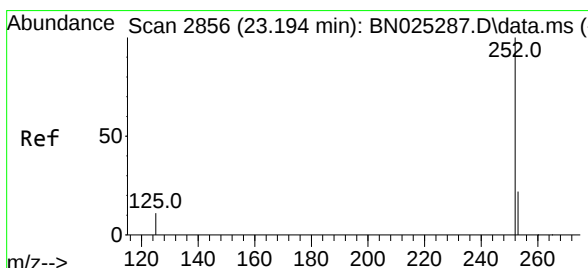
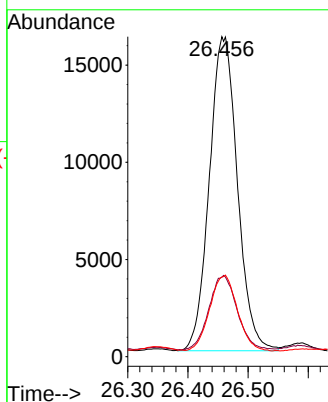
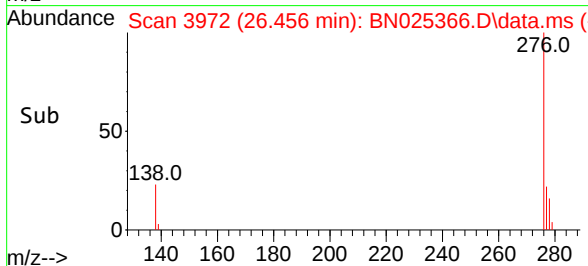
277 23.7 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/10/2023

Supervised By :Jagrut Upadhyay 05/10/2023



#37

Benzo(b)fluoranthene

Concen: 1.576 ng

RT: 23.182 min Scan# 2852

Delta R.T. 0.010 min

Lab File: BN025366.D

Acq: 09 May 2023 14:29

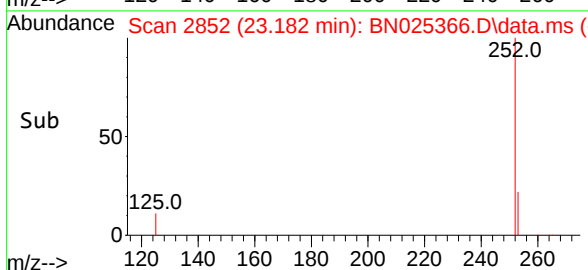
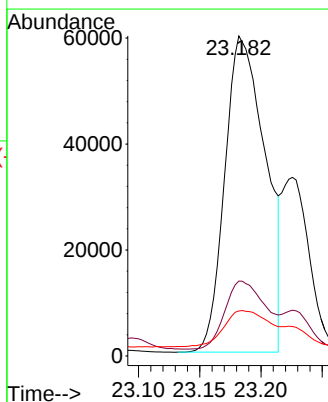
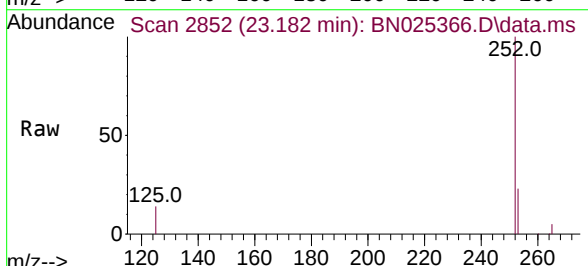
Tgt Ion:252 Resp: 137129

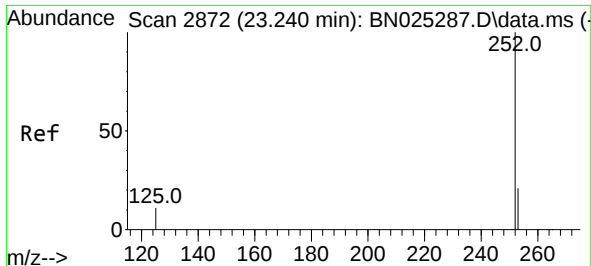
Ion Ratio Lower Upper

252 100

253 23.4 20.8 31.2

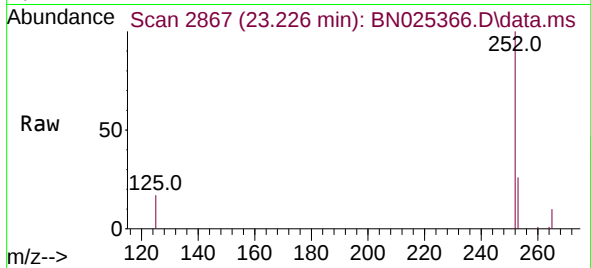
125 14.0 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.572 ng m
RT: 23.226 min Scan# 2872
Delta R.T. 0.007 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

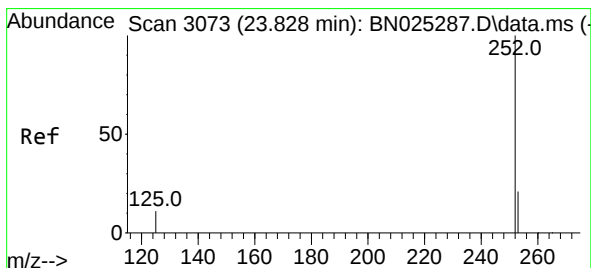
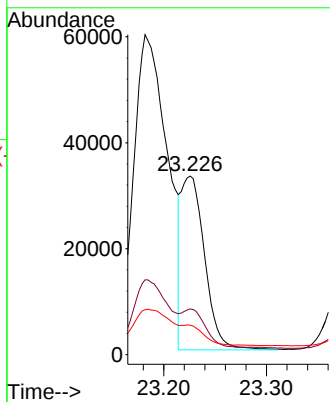
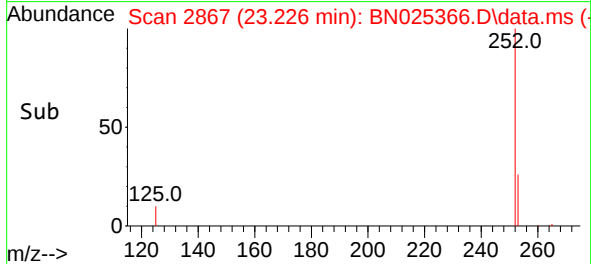
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:252 Resp: 52090
Ion Ratio Lower Upper
252 100
253 25.6 20.6 30.8
125 16.5 13.1 19.7

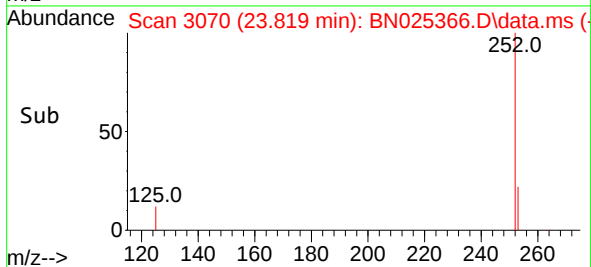
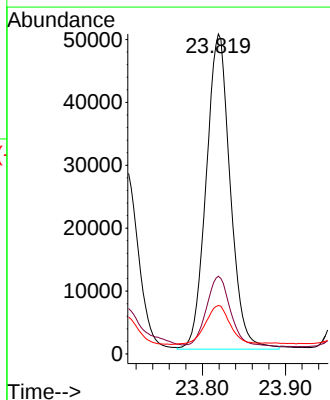
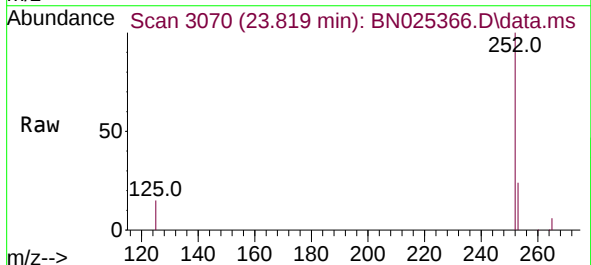
Manual Integrations
APPROVED

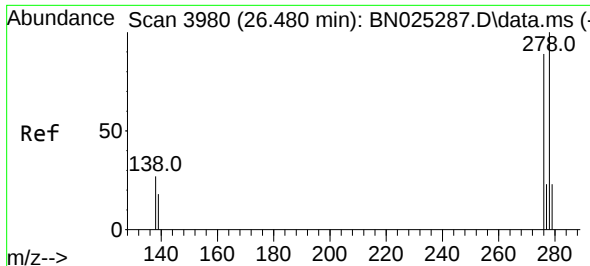
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#39
Benzo(a)pyrene
Concen: 1.131 ng m
RT: 23.819 min Scan# 3070
Delta R.T. 0.007 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

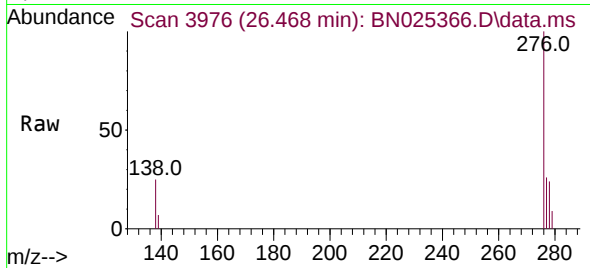
Tgt Ion:252 Resp: 100812
Ion Ratio Lower Upper
252 100
253 24.3 21.4 32.0
125 15.1 15.4 23.2#





#40
Dibenzo(a,h)anthracene
Concen: 0.145 ng
RT: 26.468 min Scan# 3976
Delta R.T. -0.004 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29

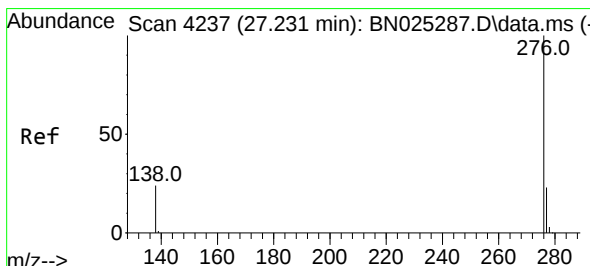
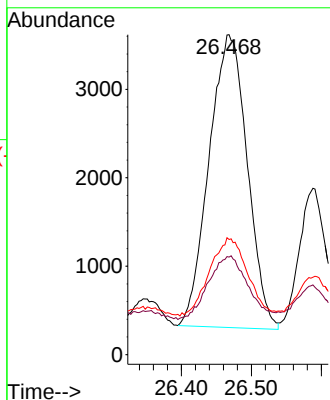
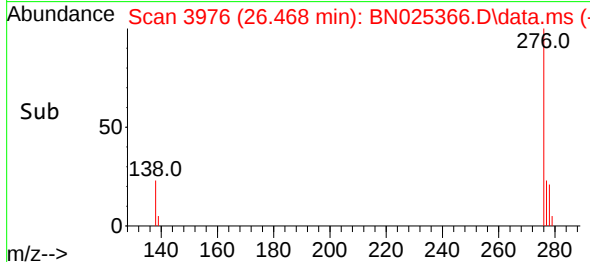
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



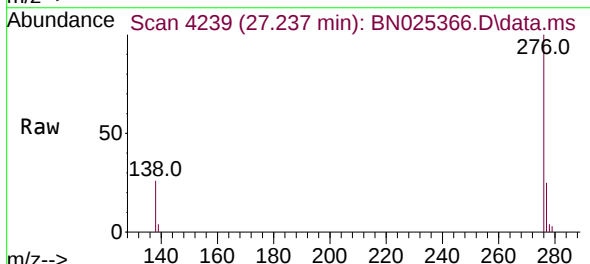
Tgt Ion:278 Resp: 1257
Ion Ratio Lower Upper
278 100
139 30.5 17.6 26.4
279 36.0 21.6 32.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#41
Benzo(g,h,i)perylene
Concen: 0.499 ng
RT: 27.237 min Scan# 4239
Delta R.T. 0.002 min
Lab File: BN025366.D
Acq: 09 May 2023 14:29



Tgt Ion:276 Resp: 47652
Ion Ratio Lower Upper
276 100
277 24.9 20.1 30.1
138 26.2 21.0 31.6

