

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025344.D
 Acq On : 08 May 2023 21:58
 Operator : CG/JU
 Sample : 02588-12DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 50

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

Manual Integrations
 APPROVED

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

Quant Time: May 09 04:04:45 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	380628	20.000	ng	0.00
7) Naphthalene-d8	10.707	136	1226982	20.000	ng	-0.01
13) Acenaphthene-d10	14.544	164	707214	20.000	ng	0.00
19) Phenanthrene-d10	17.298	188	1550646	20.000	ng	0.00
29) Chrysene-d12	21.486	240	1320734	20.000	ng	-0.01
35) Perylene-d12	23.914	264	1340239	20.000	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.455	112	339358	18.315	ng	0.00
5) Phenol-d6	7.066	99	495491	21.311	ng	0.00
8) Nitrobenzene-d5	9.063	82	248415	12.307	ng	-0.02
11) 2-Methylnaphthalene-d10	12.279	152	4	0.000	ng	-0.03
14) 2,4,6-Tribromophenol	16.045	330	158774	21.958	ng	-0.01
15) 2-Fluorobiphenyl	13.165	172	534266	11.015	ng	-0.01
27) Fluoranthene-d10	19.359	212	24	0.000	ng	0.03
31) Terphenyl-d14	19.924	244	627341	11.779	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.760	128	12323	0.196	ng	99
12) 2-Methylnaphthalene	12.381	142	3346	0.075	ng	95
16) Acenaphthylene	14.266	152	14170	0.224	ng	99
17) Acenaphthene	14.608	154	4030	0.102	ng	98
18) Fluorene	15.603	166	9377	0.174	ng	# 97
25) Phenanthrene	17.336	178	117900	1.374	ng	99
26) Anthracene	17.435	178	34895	0.434	ng	100
28) Fluoranthene	19.359	202	185891	1.734	ng	99
30) Pyrene	19.722	202	151325	1.676	ng	98
32) Benzo(a)anthracene	21.468	228	83053	0.930	ng	96
33) Chrysene	21.522	228	69866	0.786	ng	96
34) Bis(2-ethylhexyl)phtha...	21.387	149	11345	0.162	ng	96
36) Indeno(1,2,3-cd)pyrene	26.426	276	31891	0.297	ng	96
37) Benzo(b)fluoranthene	23.174	252	83092	0.978	ng	98
38) Benzo(k)fluoranthene	23.218	252	27803m	0.313	ng	
39) Benzo(a)pyrene	23.803	252	58195	0.669	ng	99
40) Dibenzo(a,h)anthracene	26.434	278	7916	0.093	ng	# 50
41) Benzo(g,h,i)perylene	27.200	276	30121	0.323	ng	96

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

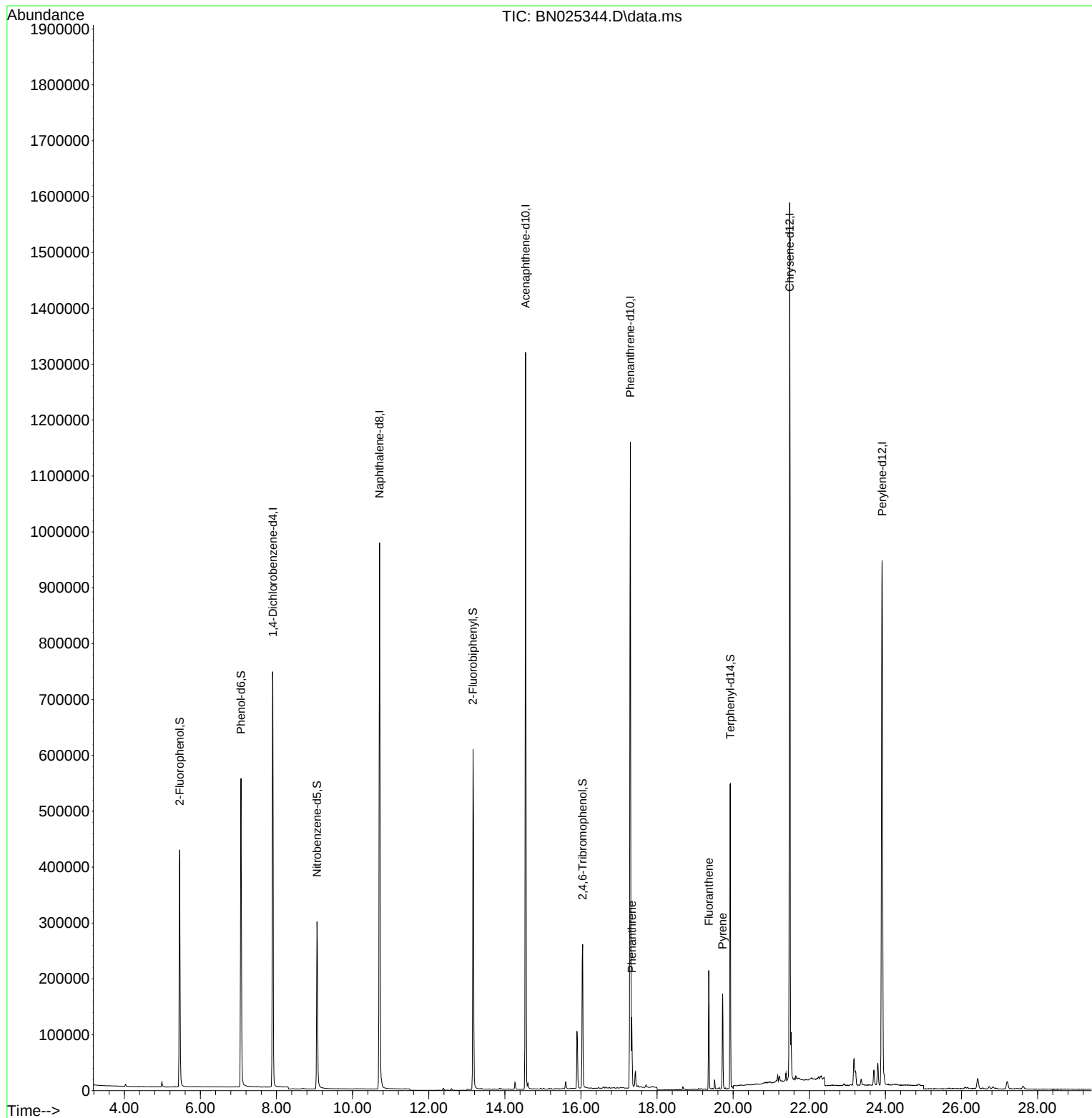
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025344.D
Acq On : 08 May 2023 21:58
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





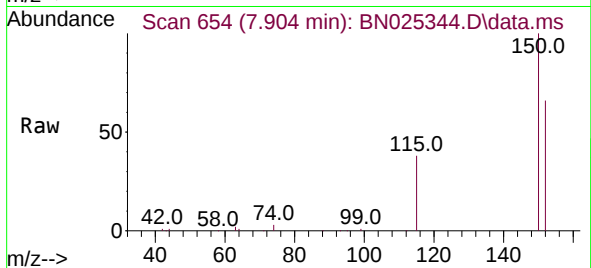
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

Instrument :

BNA_N

ClientSampleId :

ZONE-D-6-9-05022023DL

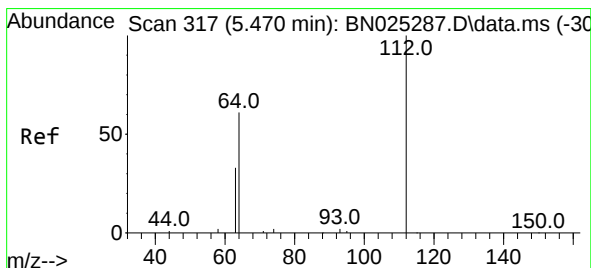
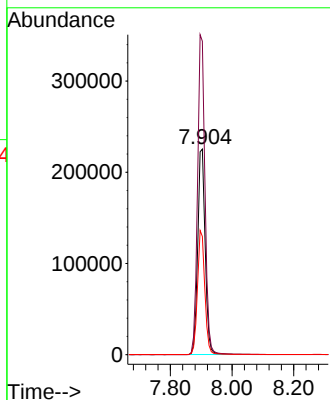
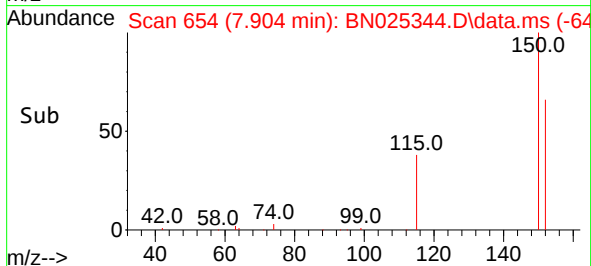


Tgt Ion:152 Resp: 380628
Ion Ratio Lower Upper
152 100
150 152.4 123.8 185.8
115 57.5 52.9 79.3

Manual Integrations

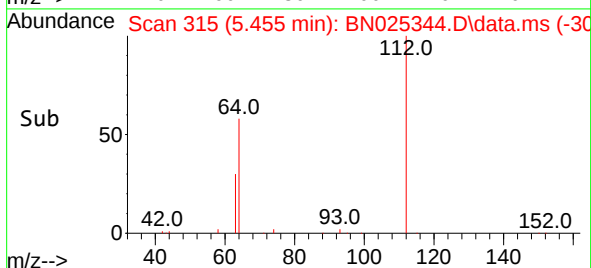
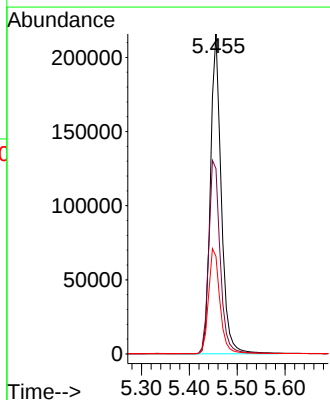
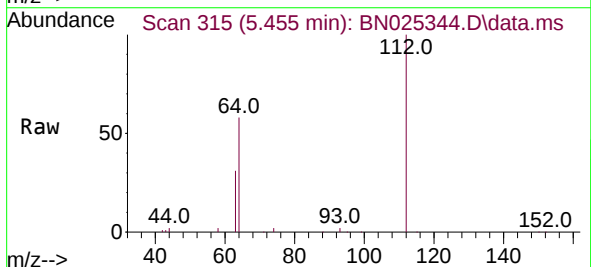
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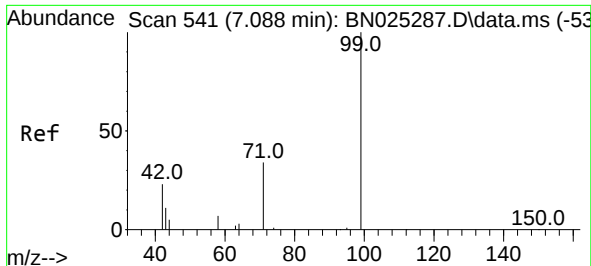
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 18.315 ng
RT: 5.455 min Scan# 315
Delta R.T. -0.007 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

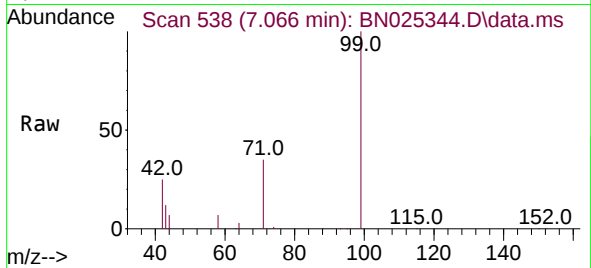
Tgt Ion:112 Resp: 339358
Ion Ratio Lower Upper
112 100
64 64.2 51.5 77.3
63 34.5 27.8 41.6





#5
Phenol-d6
Concen: 21.311 ng
RT: 7.066 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

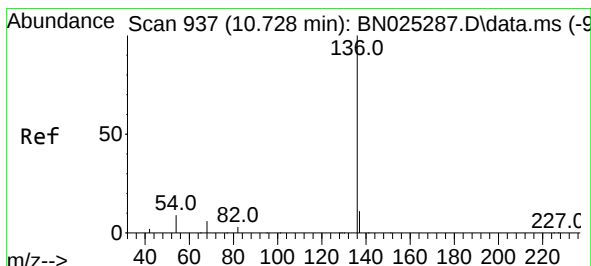
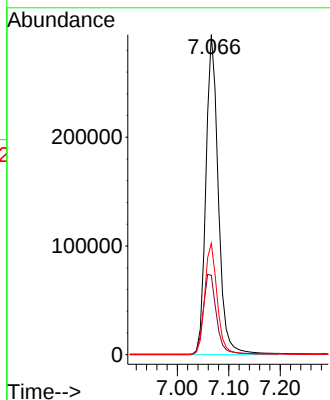
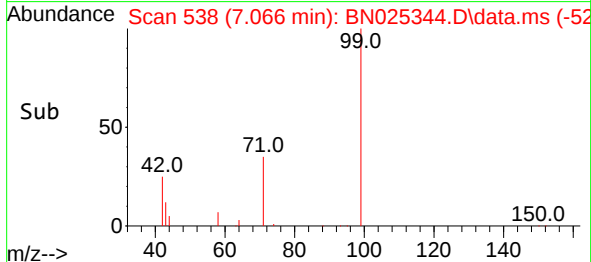
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



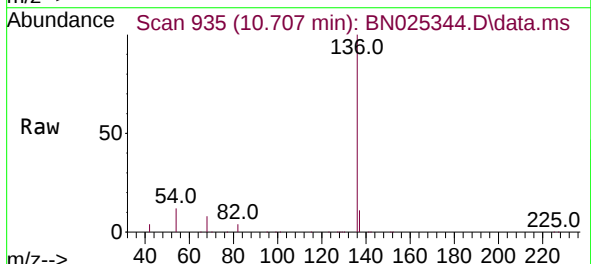
Tgt Ion: 99 Resp: 49549
Ion Ratio Lower Upper
99 100
42 26.4 22.0 33.0
71 34.9 28.7 43.1

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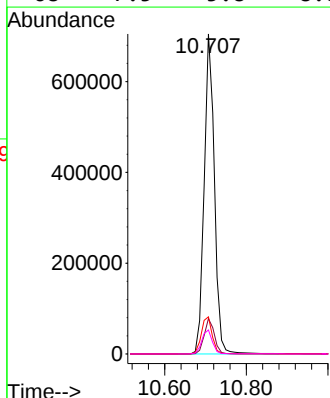
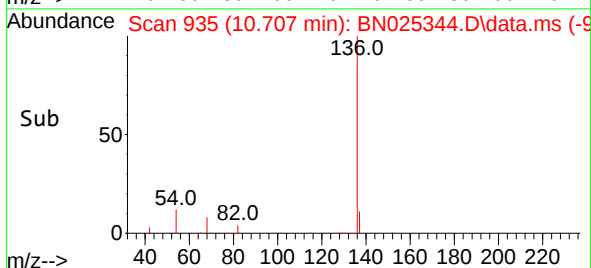
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

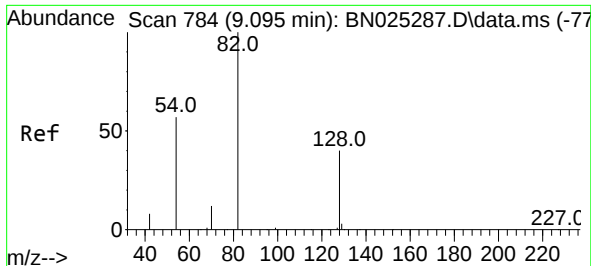


#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.707 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58



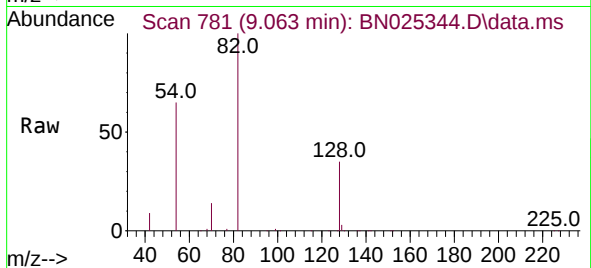
Tgt Ion:136 Resp: 1226982
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.2
54 11.6 8.5 12.7
68 7.5 5.8 8.8





#8
Nitrobenzene-d5
Concen: 12.307 ng
RT: 9.063 min Scan# 784
Delta R.T. -0.022 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

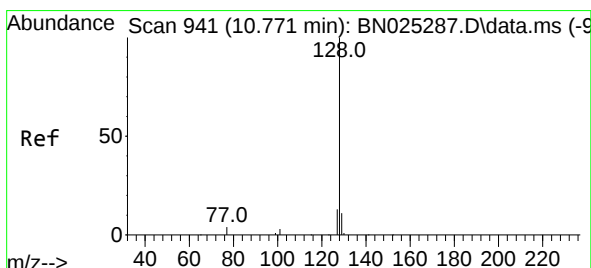
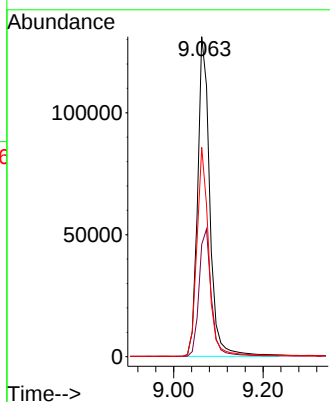
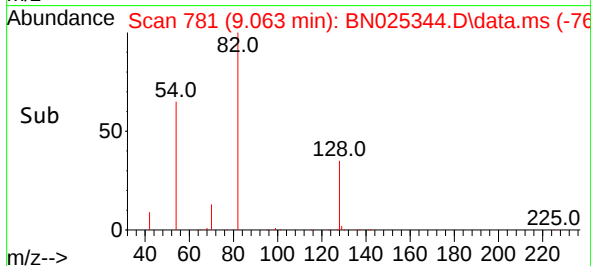
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion: 82 Resp: 248415
Ion Ratio Lower Upper
82 100
128 35.1 35.3 52.9
54 65.4 48.7 73.1

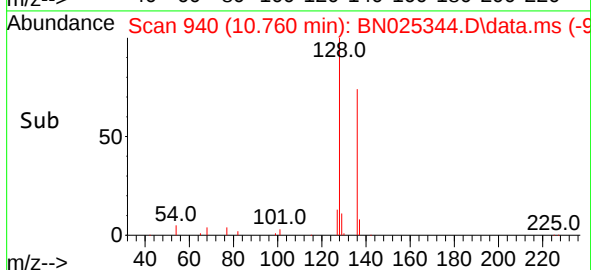
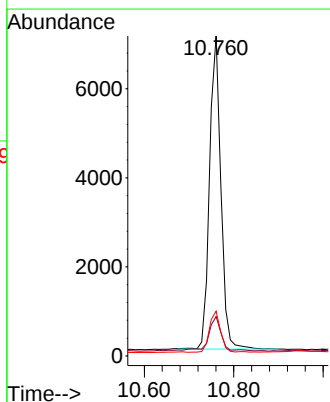
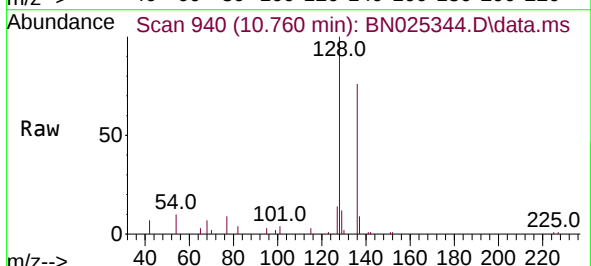
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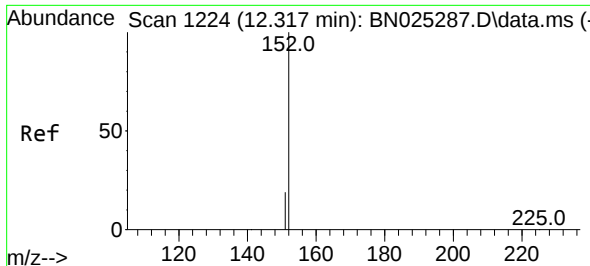
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.196 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

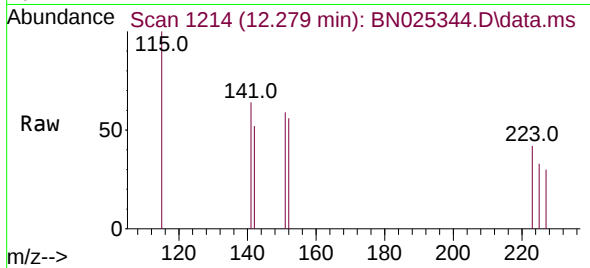
Tgt Ion:128 Resp: 12323
Ion Ratio Lower Upper
128 100
129 12.3 9.4 14.2
127 14.0 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 12.279 min Scan# 11
Delta R.T. -0.027 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

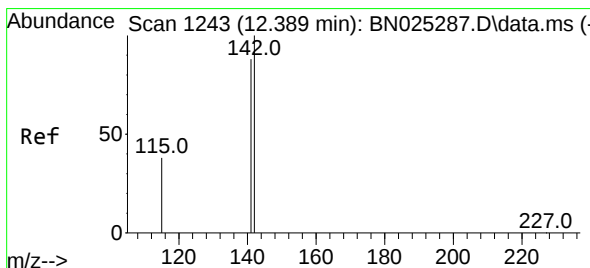
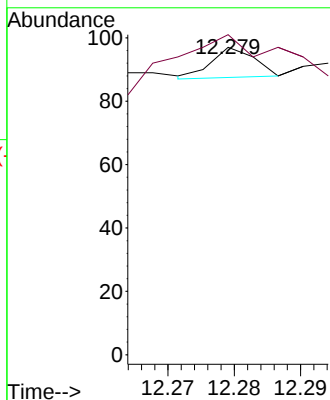
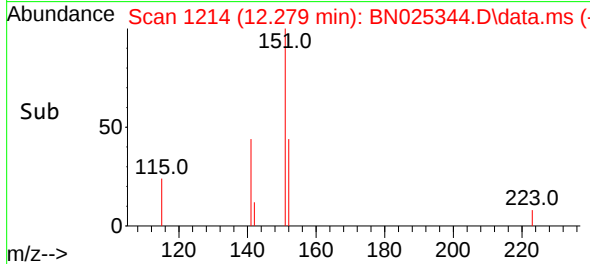
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:152 Resp:
Ion Ratio Lower Upper
152 100
151 950.0 16.4 24.6

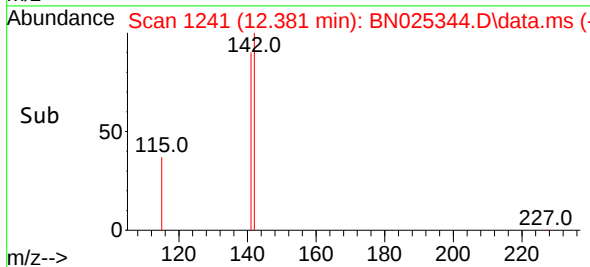
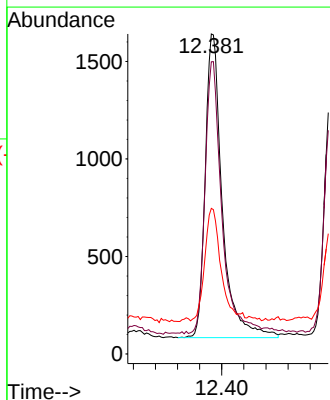
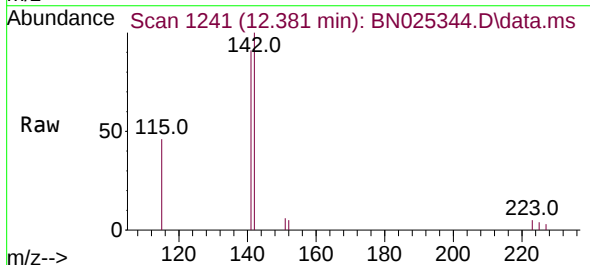
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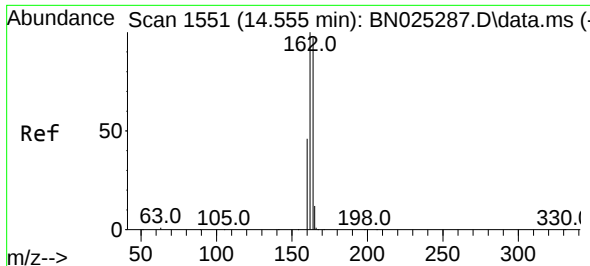
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#12
2-Methylnaphthalene
Concen: 0.075 ng
RT: 12.381 min Scan# 1241
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

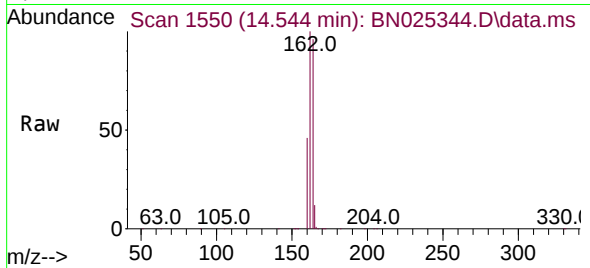
Tgt Ion:142 Resp: 3346
Ion Ratio Lower Upper
142 100
141 91.3 70.5 105.7
115 45.5 31.6 47.4





#13
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.544 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

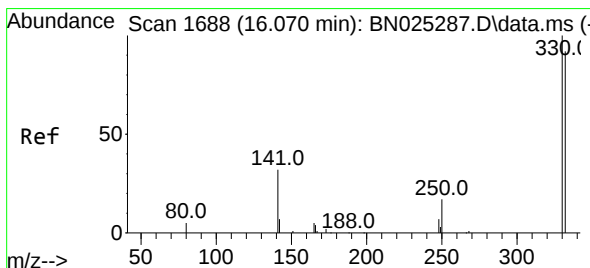
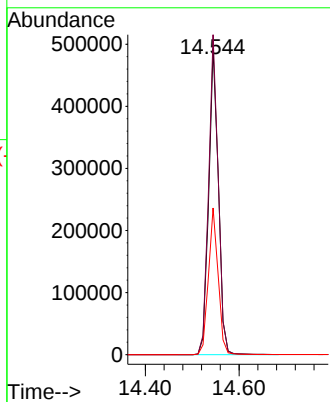
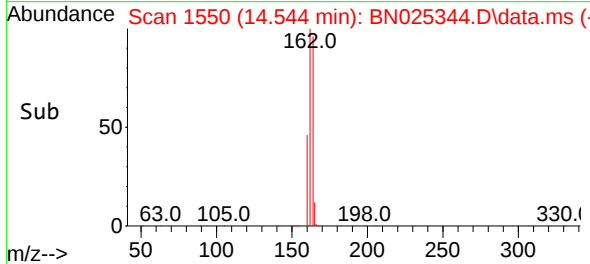
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Tgt Ion:164 Resp: 707214
Ion Ratio Lower Upper
164 100
162 104.5 82.1 123.1
160 47.9 38.3 57.5

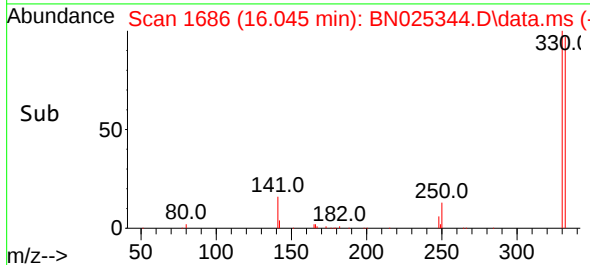
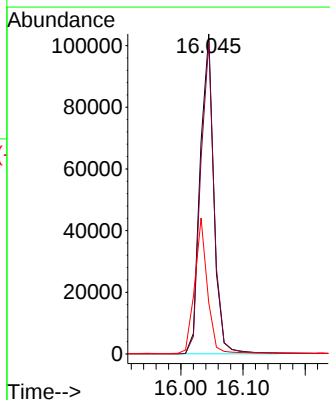
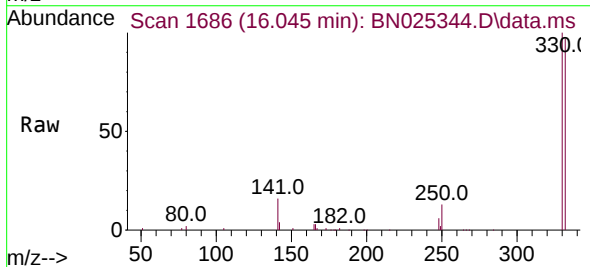
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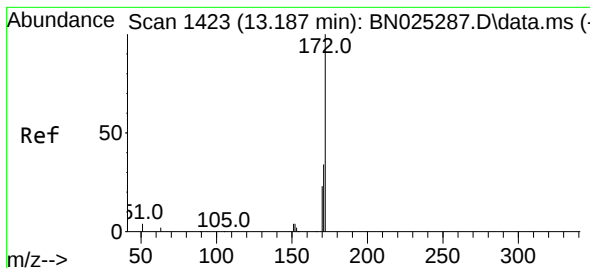
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#14
2,4,6-Tribromophenol
Concen: 21.958 ng
RT: 16.045 min Scan# 1686
Delta R.T. -0.013 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

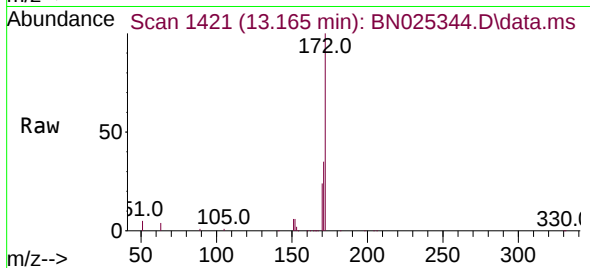
Tgt Ion:330 Resp: 158774
Ion Ratio Lower Upper
330 100
332 96.5 77.4 116.0
141 39.4 28.9 43.3





#15
2-Fluorobiphenyl
Concen: 11.015 ng
RT: 13.165 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

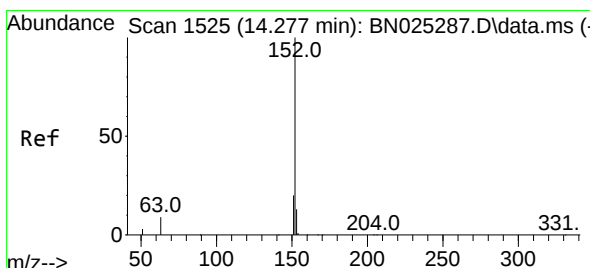
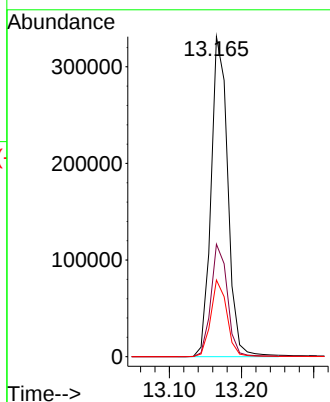
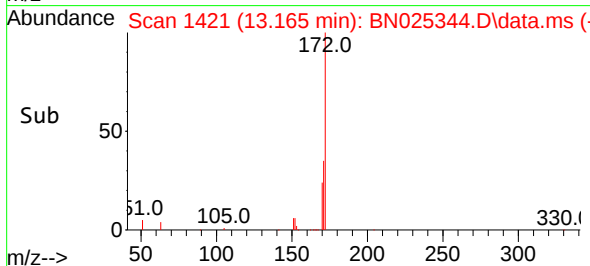
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ZONE-D-6-9-05022023DL



Tgt Ion:172 Resp: 534260
Ion Ratio Lower Upper
172 100
171 35.1 27.9 41.9
170 24.0 19.0 28.4

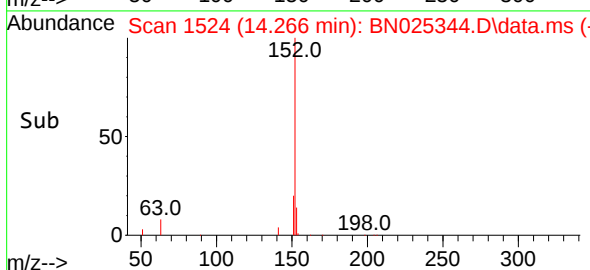
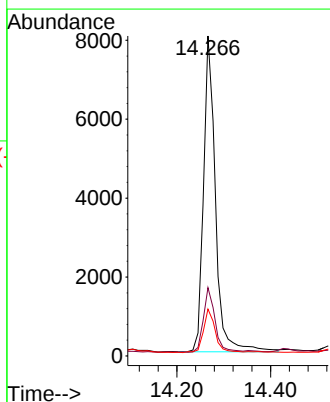
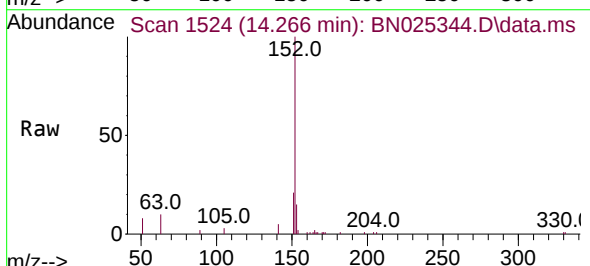
Manual Integrations
APPROVED

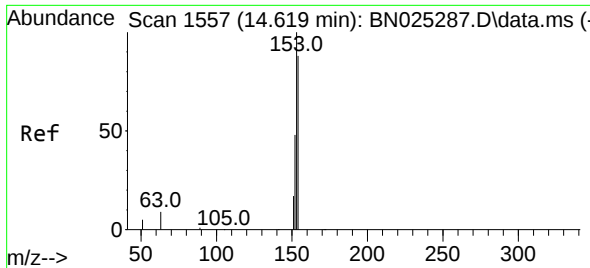
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#16
Acenaphthylene
Concen: 0.224 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

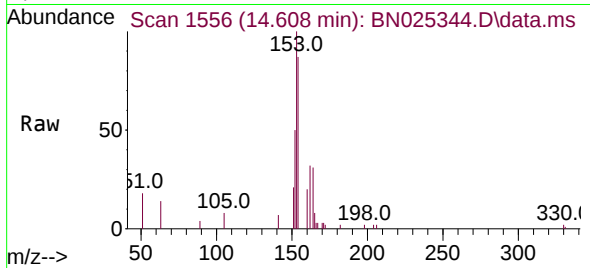
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Ion Ratio Lower Upper
152 100
151 19.9 16.1 24.1
153 13.2 10.3 15.5





#17
Acenaphthene
Concen: 0.102 ng
RT: 14.608 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

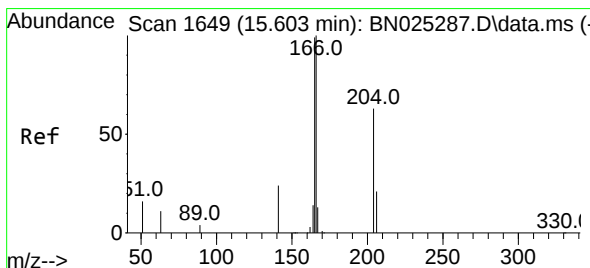
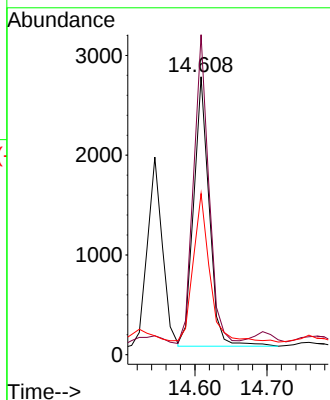
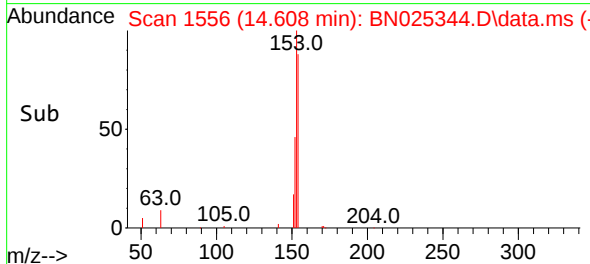
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:154 Resp: 4030
Ion Ratio Lower Upper
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153 113.1 91.3 136.9
152 58.8 44.7 67.1

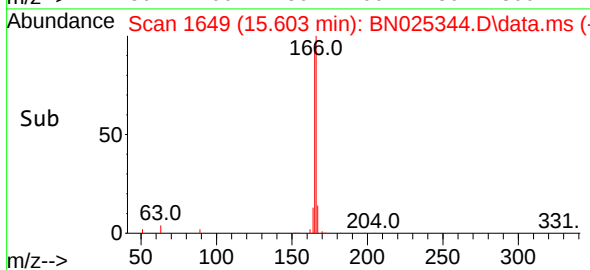
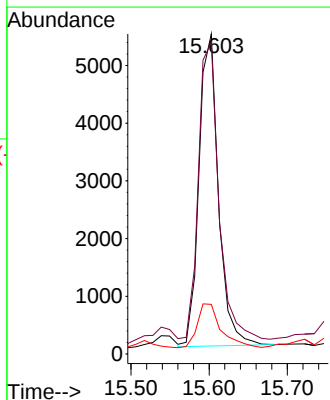
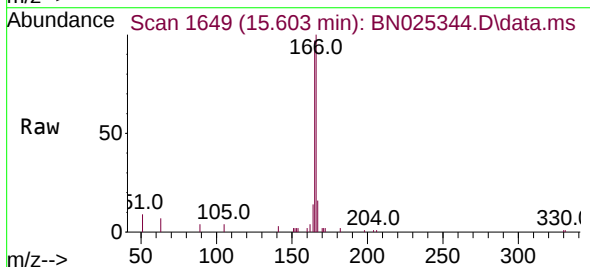
Manual Integrations
APPROVED

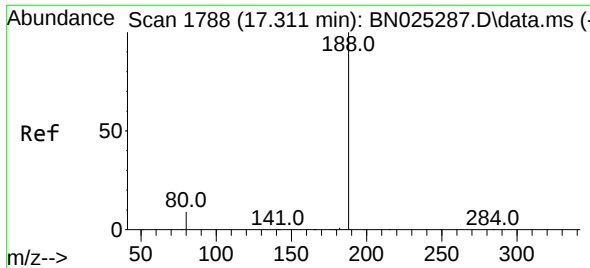
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#18
Fluorene
Concen: 0.174 ng
RT: 15.603 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

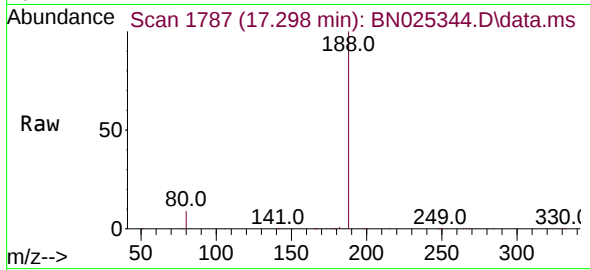
Tgt Ion:166 Resp: 9377
Ion Ratio Lower Upper
166 100
165 100.8 79.0 118.4
167 17.4 10.3 15.5#





#19
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.298 min Scan# 1788
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

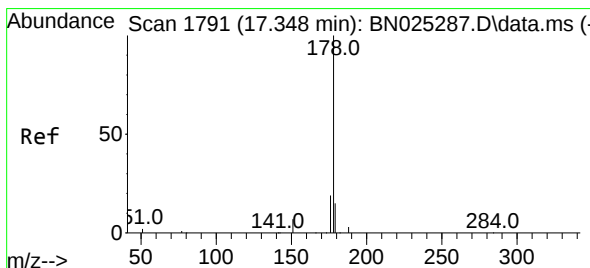
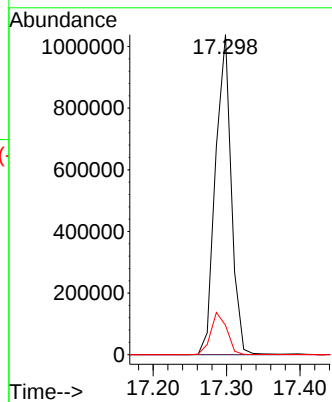
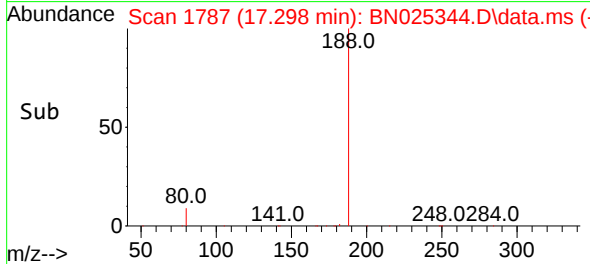
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:188 Resp: 1550640
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 8.0 12.0

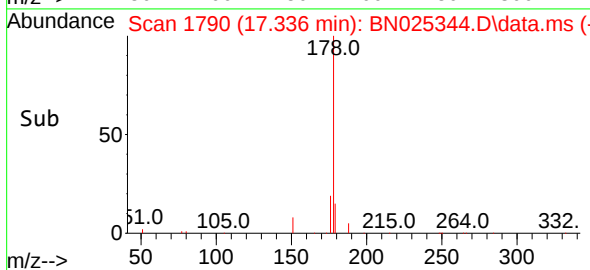
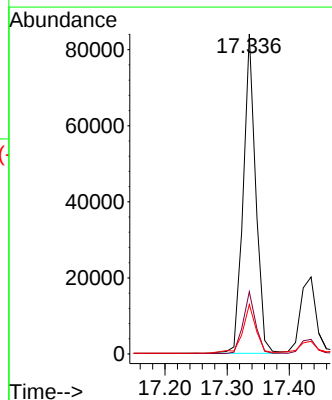
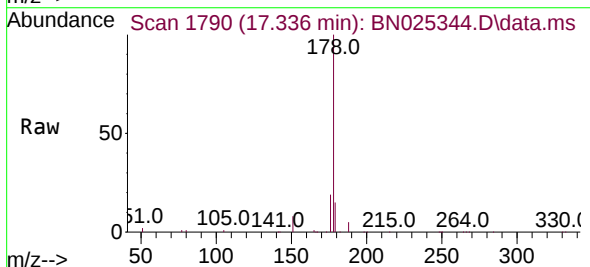
Manual Integrations
APPROVED

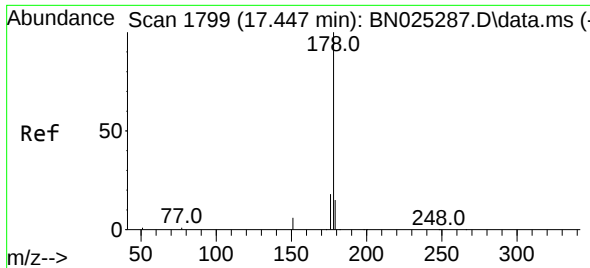
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#25
Phenanthrene
Concen: 1.374 ng
RT: 17.336 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

Tgt Ion:178 Resp: 117900
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 16.2 12.4 18.6





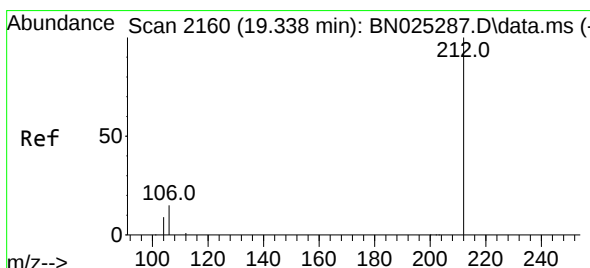
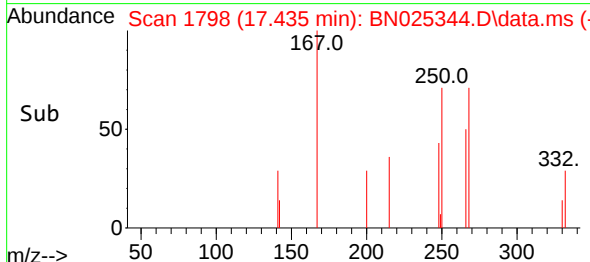
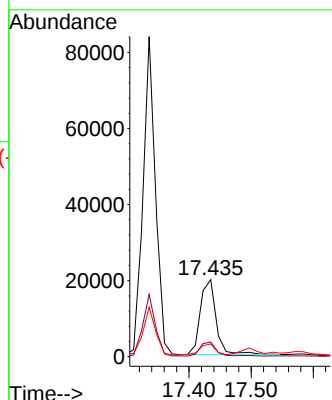
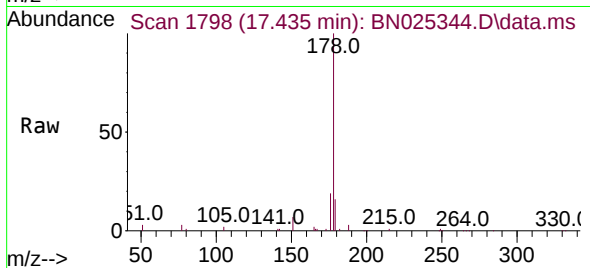
#26
 Anthracene
 Concen: 0.434 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025344.D
 Acq: 08 May 2023 21:58

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

Tgt Ion:178 Resp: 3489
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.9 22.3
 179 14.9 12.0 18.0

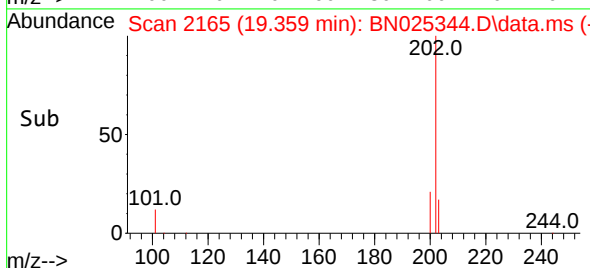
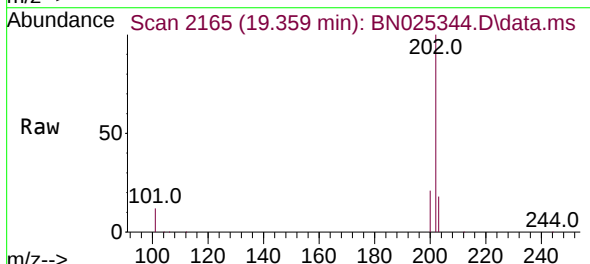
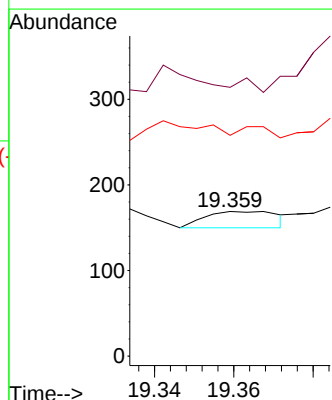
Manual Integrations
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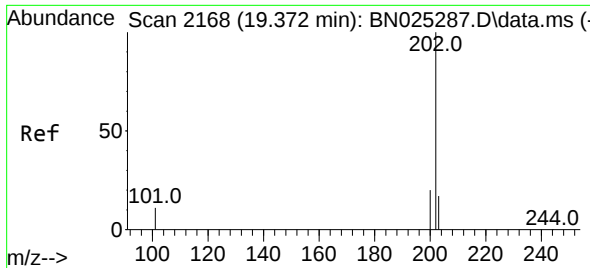
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.000 ng
 RT: 19.359 min Scan# 2165
 Delta R.T. 0.025 min
 Lab File: BN025344.D
 Acq: 08 May 2023 21:58

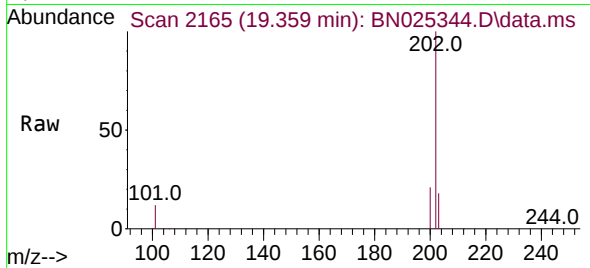
Tgt Ion:212 Resp: 24
 Ion Ratio Lower Upper
 212 100
 106 79.2 12.6 19.0#
 104 225.0 7.0 10.6#





#28
Fluoranthene
Concen: 1.734 ng
RT: 19.359 min Scan# 2165
Delta R.T. -0.004 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

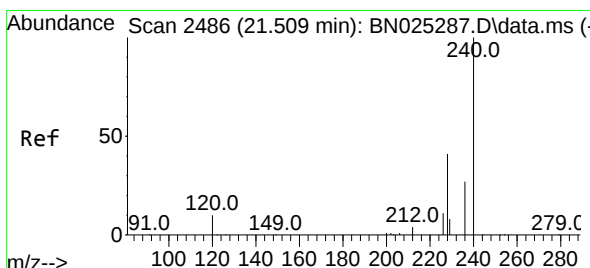
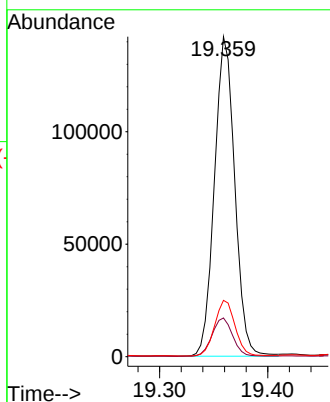
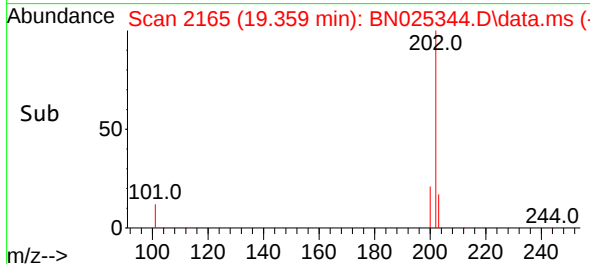
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:202 Resp: 18589
Ion Ratio Lower Upper
202 100
101 12.1 9.8 14.8
203 17.4 13.5 20.3

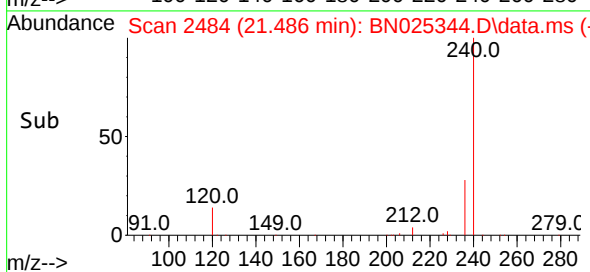
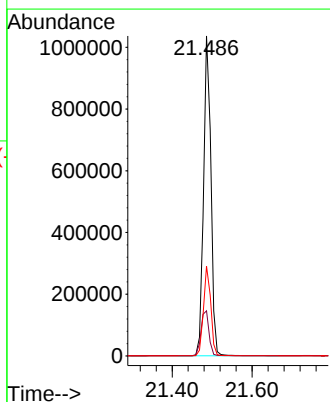
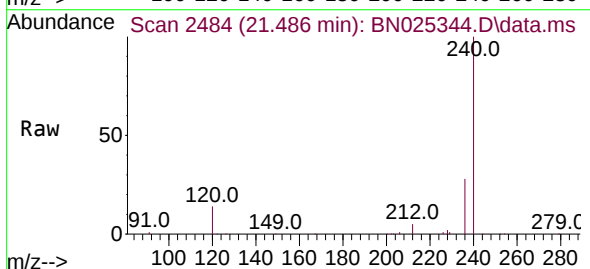
Manual Integrations
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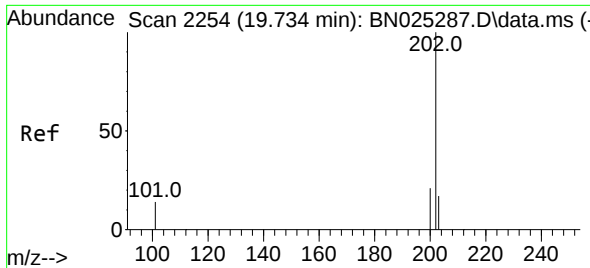
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#29
Chrysene-d12
Concen: 20.000 ng
RT: 21.486 min Scan# 2484
Delta R.T. -0.014 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

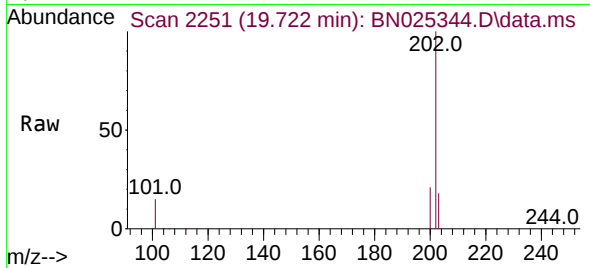
Tgt Ion:240 Resp: 1320734
Ion Ratio Lower Upper
240 100
120 14.1 10.3 15.5
236 28.1 22.3 33.5





#30
Pyrene
Concen: 1.676 ng
RT: 19.722 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

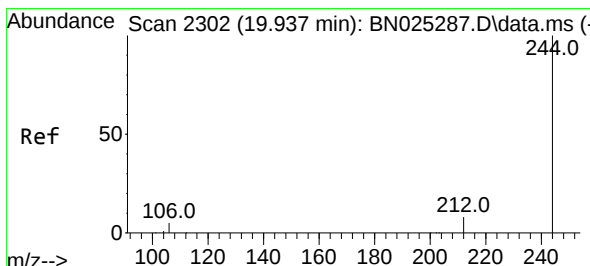
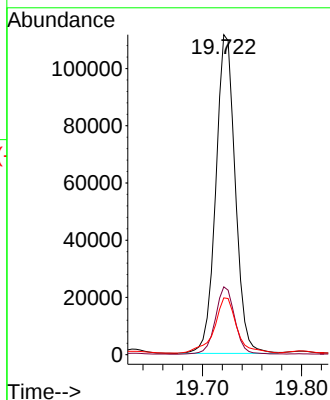
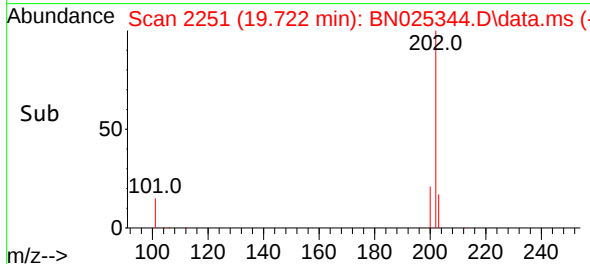
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:202 Resp: 15132
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 20.1 14.4 21.6

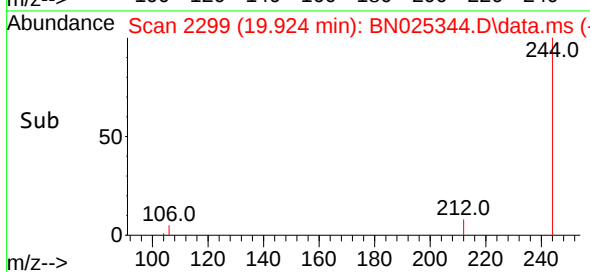
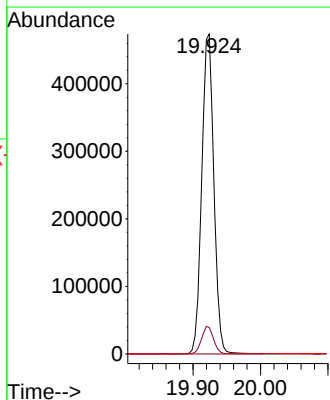
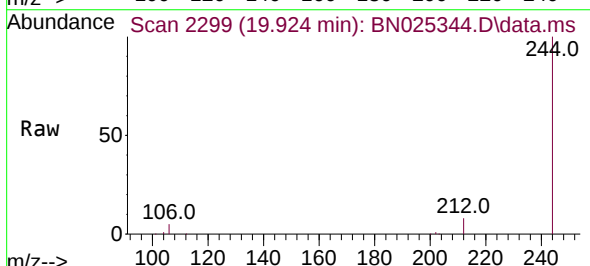
Manual Integrations
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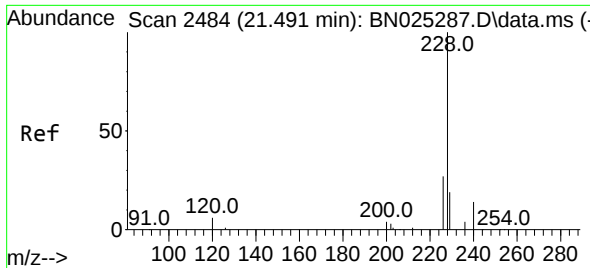
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#31
Terphenyl-d14
Concen: 11.779 ng
RT: 19.924 min Scan# 2299
Delta R.T. -0.004 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

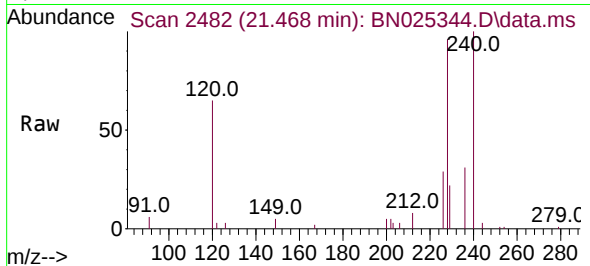
Tgt Ion:244 Resp: 627341
Ion Ratio Lower Upper
244 100
212 8.2 7.1 10.7
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.930 ng
RT: 21.468 min Scan# 2482
Delta R.T. -0.014 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

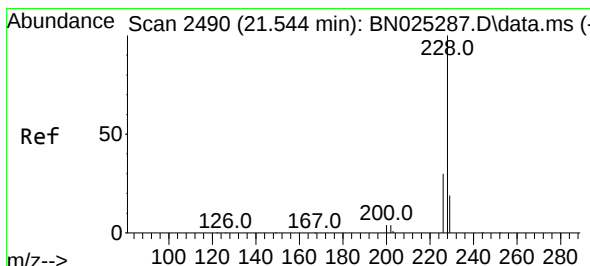
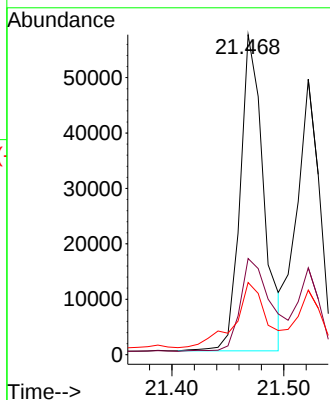
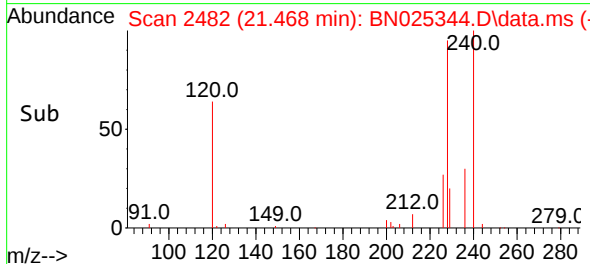
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



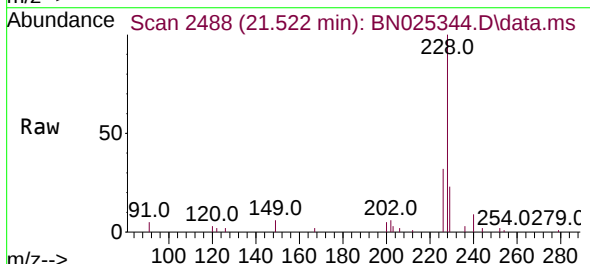
Tgt Ion:228 Resp: 8305
Ion Ratio Lower Upper
228 100
226 30.0 22.5 33.7
229 22.5 16.2 24.2

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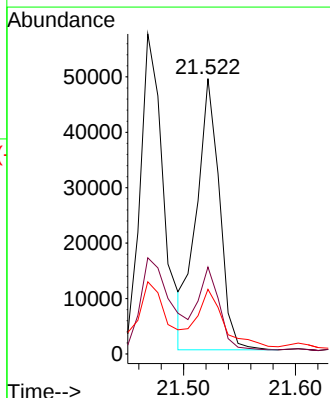
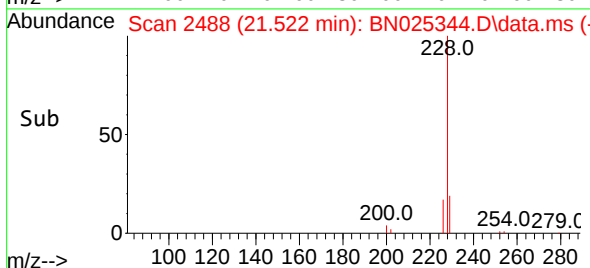
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

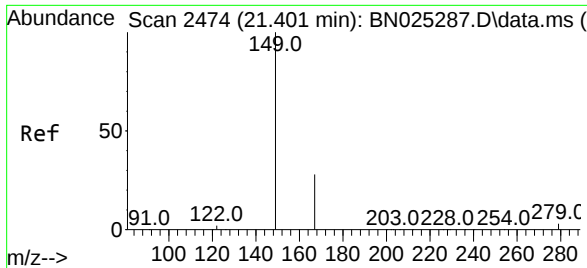


#33
Chrysene
Concen: 0.786 ng
RT: 21.522 min Scan# 2488
Delta R.T. -0.014 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58



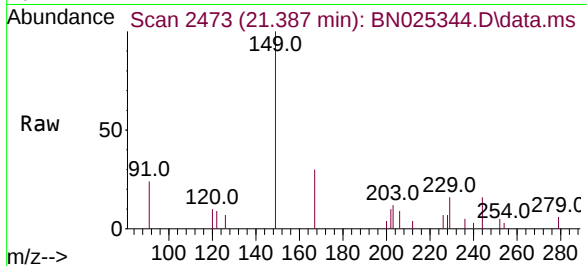
Tgt Ion:228 Resp: 69866
Ion Ratio Lower Upper
228 100
226 31.5 24.6 36.8
229 23.5 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.162 ng
RT: 21.387 min Scan# 2473
Delta R.T. -0.005 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

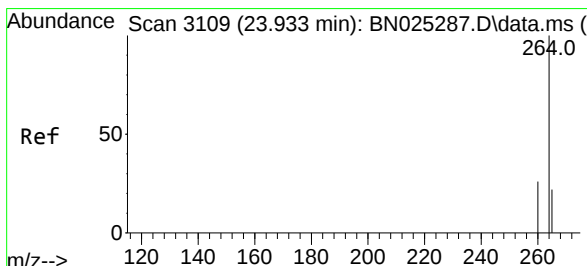
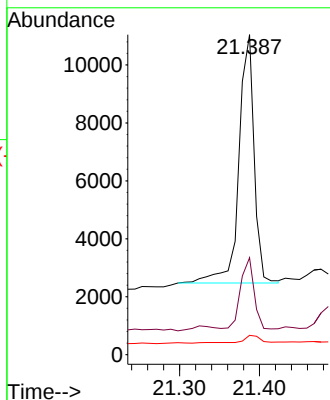
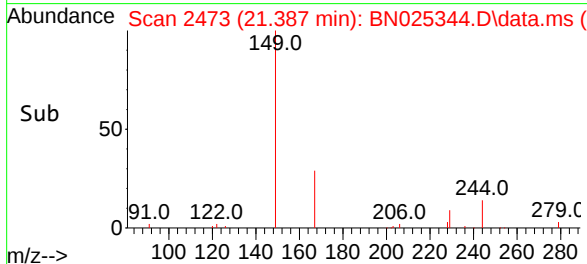
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:149 Resp: 11345
Ion Ratio Lower Upper
149 100
167 25.7 22.2 33.4
279 2.9 2.6 4.0

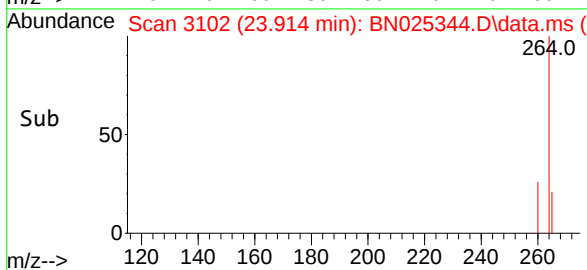
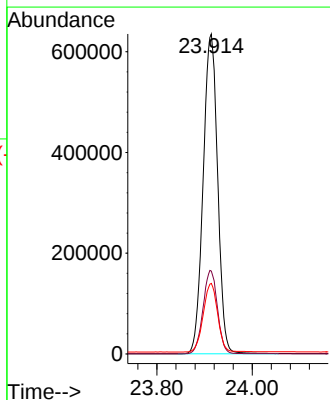
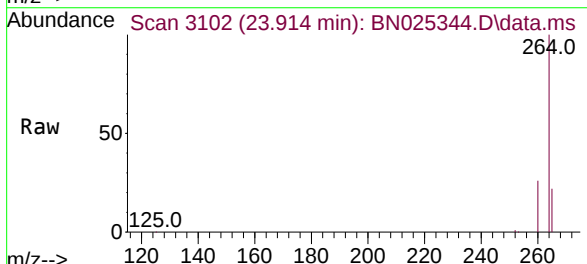
Manual Integrations
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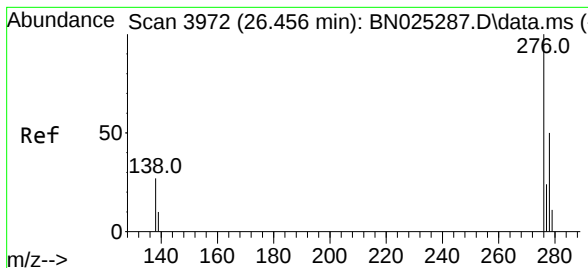
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#35
Perylene-d12
Concen: 20.000 ng
RT: 23.914 min Scan# 3102
Delta R.T. -0.016 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

Tgt Ion:264 Resp: 1340239
Ion Ratio Lower Upper
264 100
260 25.9 21.5 32.3
265 22.1 46.2 69.4#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.297 ng

RT: 26.426 min Scan# 3189

Delta R.T. -0.022 min

Lab File: BN025344.D

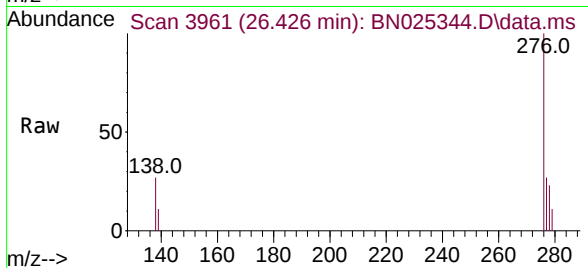
Acq: 08 May 2023 21:58

Instrument :

BNA_N

ClientSampleId :

ZONE-D-6-9-05022023DL



Tgt Ion:276 Resp: 3189

Ion Ratio Lower Upper

276 100

138 23.8 22.5 33.7

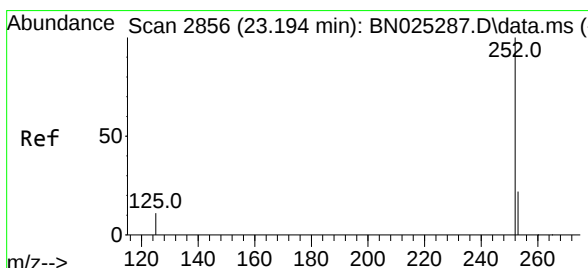
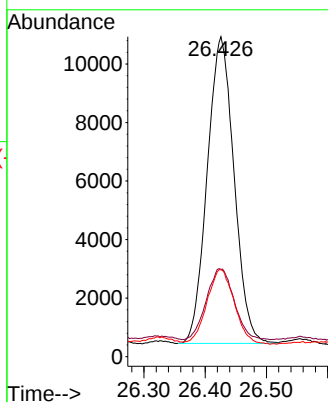
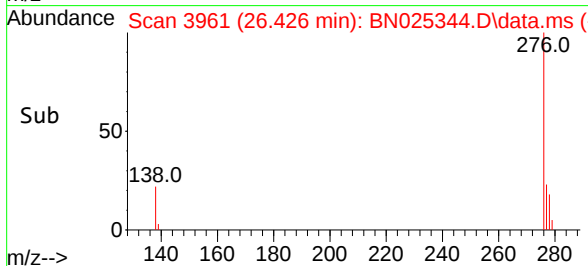
277 24.9 19.8 29.6

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: 0.978 ng

RT: 23.174 min Scan# 2849

Delta R.T. -0.013 min

Lab File: BN025344.D

Acq: 08 May 2023 21:58

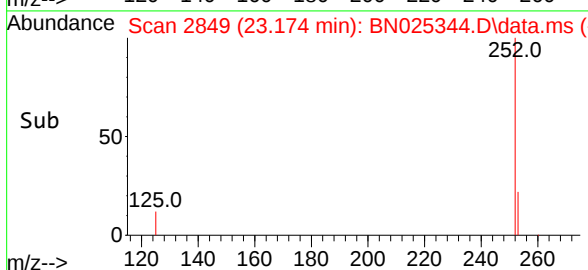
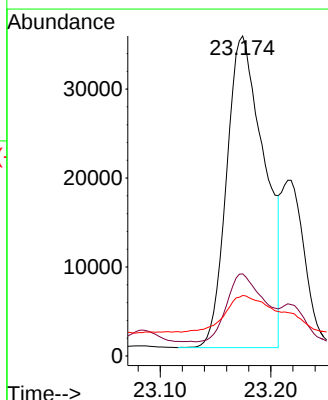
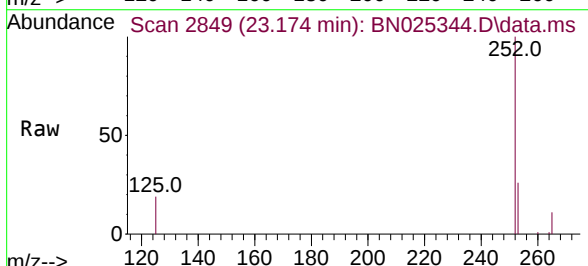
Tgt Ion:252 Resp: 83092

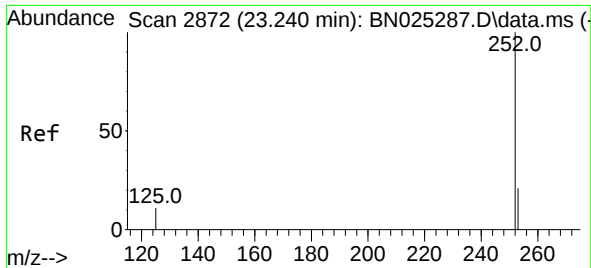
Ion Ratio Lower Upper

252 100

253 25.6 20.8 31.2

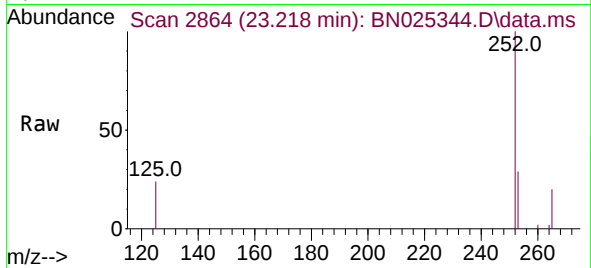
125 18.9 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.313 ng m
RT: 23.218 min Scan# 21
Delta R.T. -0.019 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

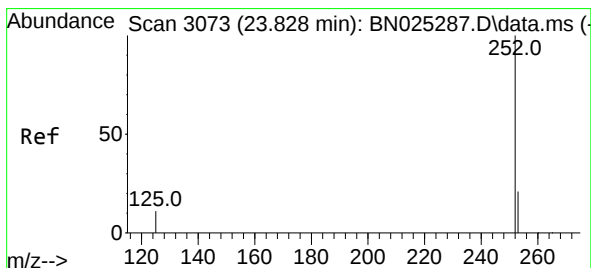
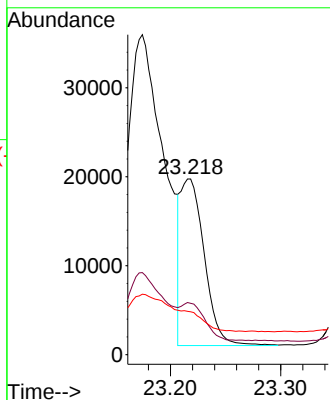
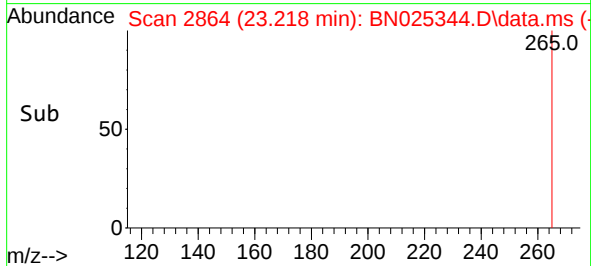
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion:252 Resp: 2780
Ion Ratio Lower Upper
252 100
253 29.2 20.6 30.8
125 24.4 13.1 19.7

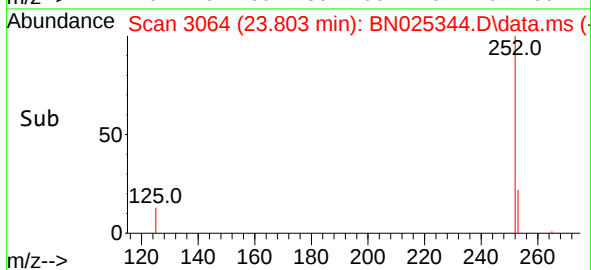
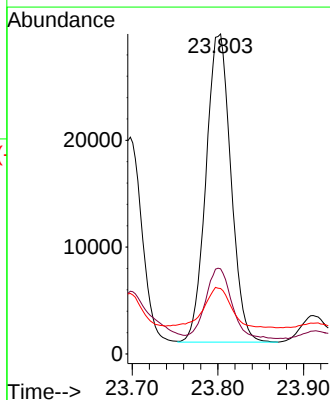
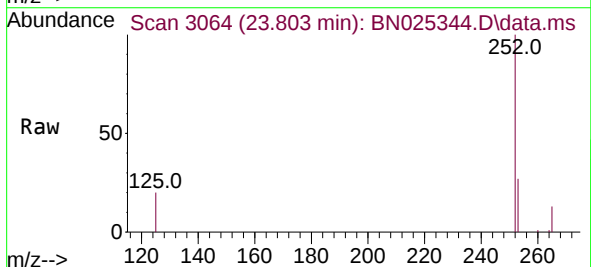
Manual Integrations
APPROVED

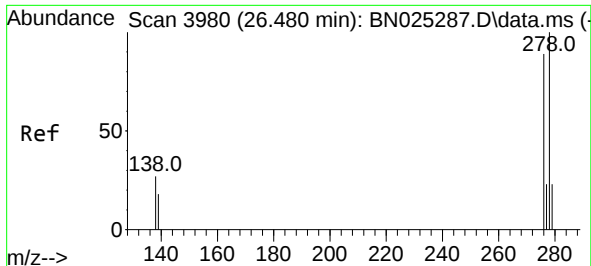
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 0.669 ng
RT: 23.803 min Scan# 3064
Delta R.T. -0.019 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

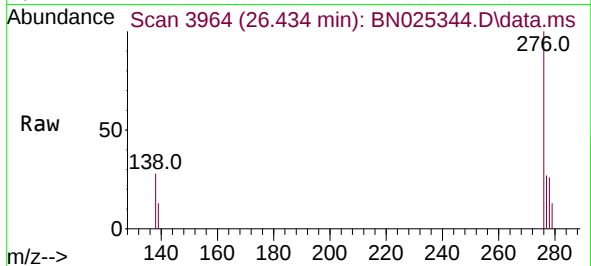
Tgt Ion:252 Resp: 58195
Ion Ratio Lower Upper
252 100
253 26.6 21.4 32.0
125 20.5 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.093 ng
RT: 26.434 min Scan# 3964
Delta R.T. -0.031 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

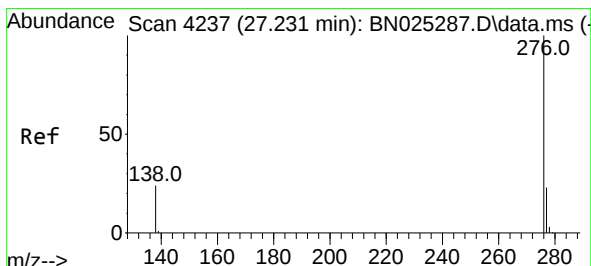
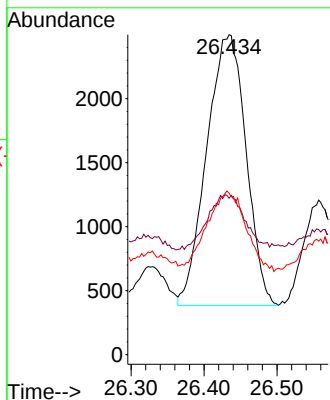
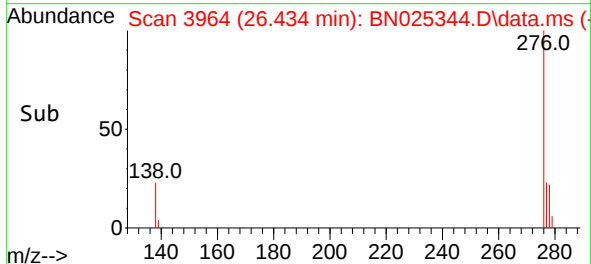
Instrument :
BNA_N
ClientSampleId :
ZONE-D-6-9-05022023DL



Tgt Ion: 278 Resp: 7910
Ion Ratio Lower Upper
278 100
139 48.9 17.6 26.4
279 50.5 21.6 32.4

Manual Integrations
APPROVED

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



#41
Benzo(g,h,i)perylene
Concen: 0.323 ng
RT: 27.200 min Scan# 4226
Delta R.T. -0.028 min
Lab File: BN025344.D
Acq: 08 May 2023 21:58

Tgt Ion: 276 Resp: 30121
Ion Ratio Lower Upper
276 100
277 27.3 20.1 30.1
138 28.5 21.0 31.6

