

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025297.D
 Acq On : 06 May 2023 02:48
 Operator : CG/JU
 Sample : 02588-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-C-6-9-05012023

Quant Time: May 08 03:18:48 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

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	5164	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	16748	0.400	ng	#-0.01
13) Acenaphthene-d10	14.555	164	11484	0.400	ng	0.00
19) Phenanthrene-d10	17.299	188	27290	0.400	ng	#-0.01
29) Chrysene-d12	21.500	240	26764	0.400	ng	# 0.00
35) Perylene-d12	23.933	264	30966	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	3824	0.304	ng	0.00
5) Phenol-d6	7.088	99	5049	0.320	ng	0.00
8) Nitrobenzene-d5	9.084	82	3717	0.270	ng	-0.01
11) 2-Methylnaphthalene-d10	12.313	152	6467	0.282	ng	0.00
14) 2,4,6-Tribromophenol	16.057	330	1909	0.325	ng	-0.01
15) 2-Fluorobiphenyl	13.176	172	9983	0.253	ng	-0.01
27) Fluoranthene-d10	19.334	212	15965	0.237	ng	0.00
31) Terphenyl-d14	19.928	244	12798	0.237	ng	0.00
Target Compounds						
9) Naphthalene	10.771	128	59005	1.373	ng	98
12) 2-Methylnaphthalene	12.385	142	23082	0.760	ng	99
16) Acenaphthylene	14.277	152	18593	0.362	ng	97
17) Acenaphthene	14.619	154	5924	0.185	ng	97
18) Fluorene	15.603	166	11617	0.265	ng	# 95
25) Phenanthrene	17.348	178	130791	1.732	ng	99
26) Anthracene	17.435	178	25465	0.360	ng	98
28) Fluoranthene	19.368	202	296653	3.144	ng	99
30) Pyrene	19.730	202	268600	2.936	ng	# 96
32) Benzo(a)anthracene	21.482	228	142924	1.580	ng	98
33) Chrysene	21.536	228	149807	1.664	ng	98
34) Bis(2-ethylhexyl)phtha...	21.392	149	35813	0.505	ng	98
36) Indeno(1,2,3-cd)pyrene	26.477	276	96254	0.775	ng	95
37) Benzo(b)fluoranthene	23.191	252	204231	2.081	ng	97
38) Benzo(k)fluoranthene	23.238	252	77147m	0.751	ng	
39) Benzo(a)pyrene	23.831	252	154198	1.533	ng	97
40) Dibenzo(a,h)anthracene	26.486	278	23480	0.240	ng	# 79
41) Benzo(g,h,i)perylene	27.261	276	94738	0.880	ng	100

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

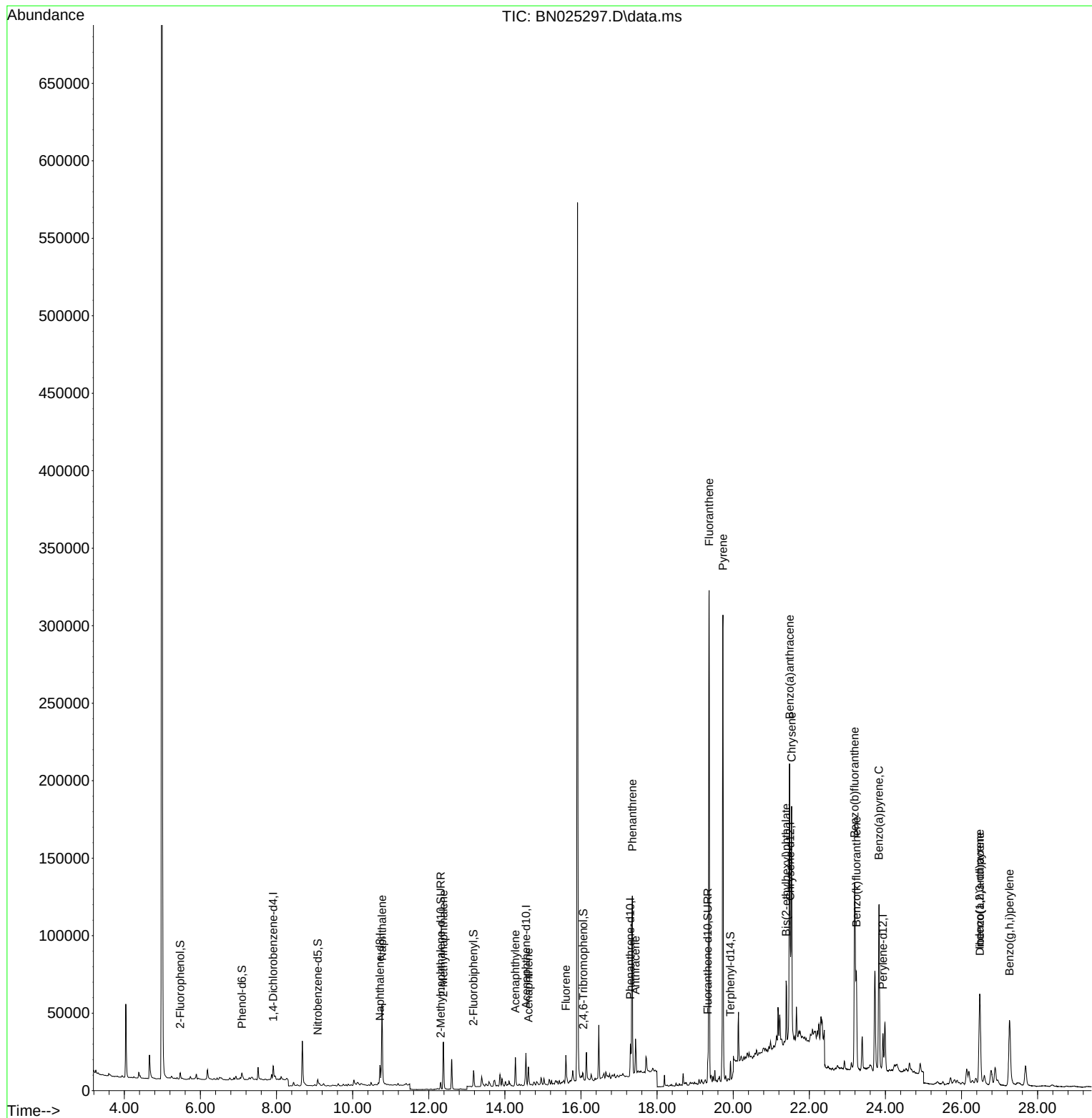
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
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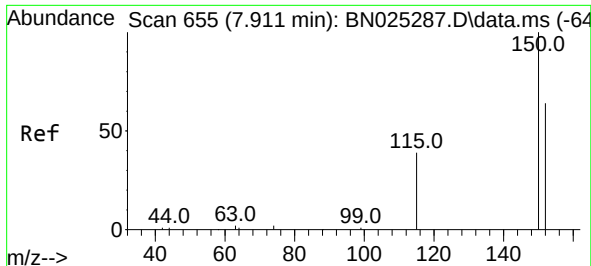
Instrument :
BNA_N
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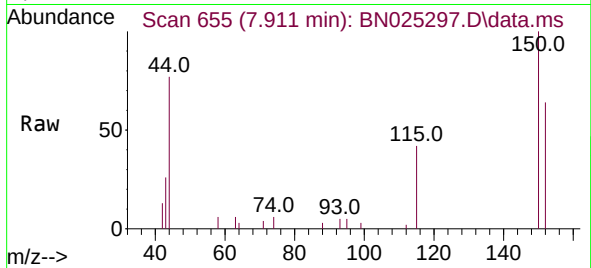
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.911 min Scan# 655
Delta R.T. 0.000 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

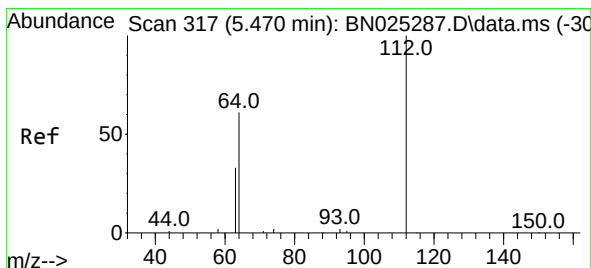
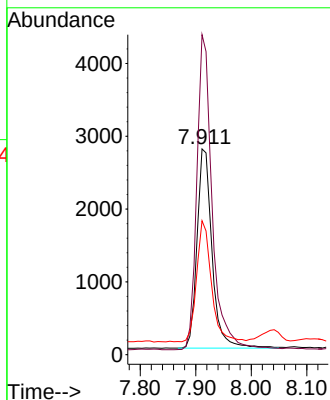
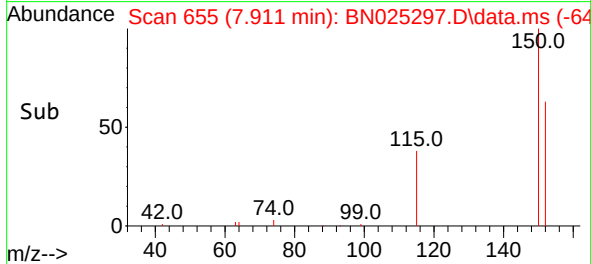
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



Tgt Ion:152 Resp: 5164
Ion Ratio Lower Upper
152 100
150 155.6 123.8 185.8
115 65.1 52.9 79.3

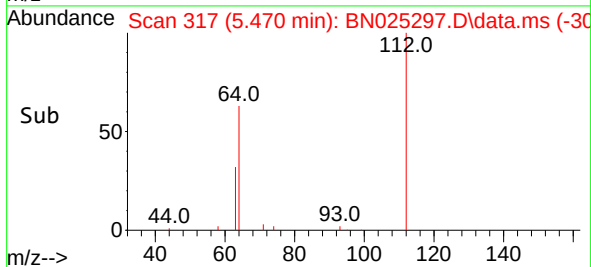
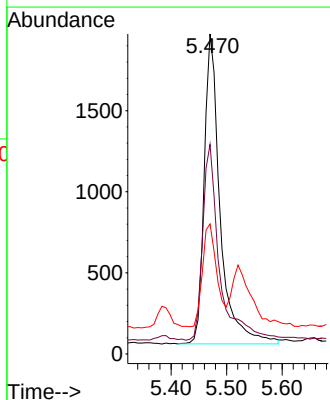
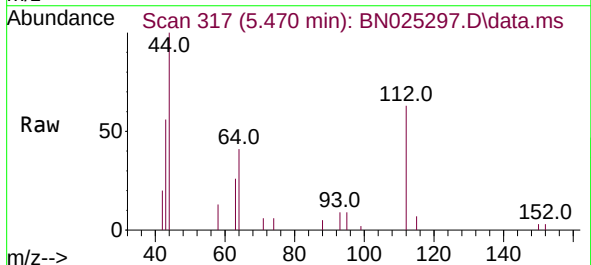
Manual Integrations
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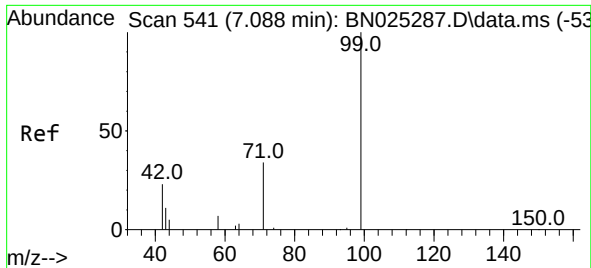
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#4
2-Fluorophenol
Concen: 0.304 ng
RT: 5.470 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

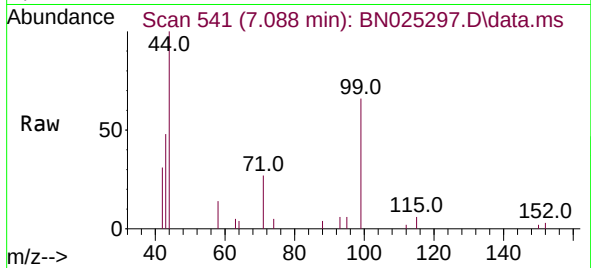
Tgt Ion:112 Resp: 3824
Ion Ratio Lower Upper
112 100
64 66.4 51.5 77.3
63 30.3 27.8 41.6





#5
Phenol-d6
Concen: 0.320 ng
RT: 7.088 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

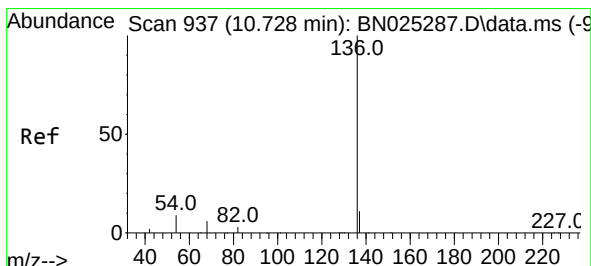
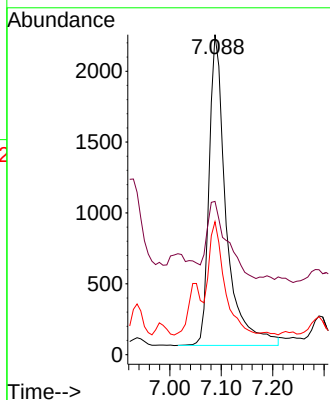
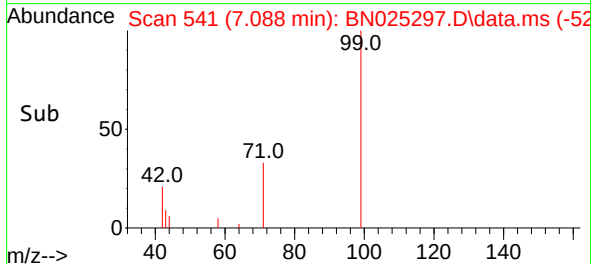
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



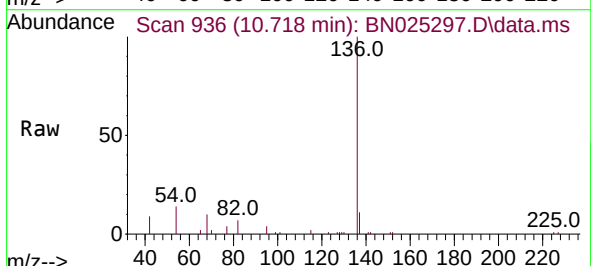
Tgt Ion: 99 Resp: 5049
Ion Ratio Lower Upper
99 100
42 28.9 22.0 33.0
71 32.5 28.7 43.1

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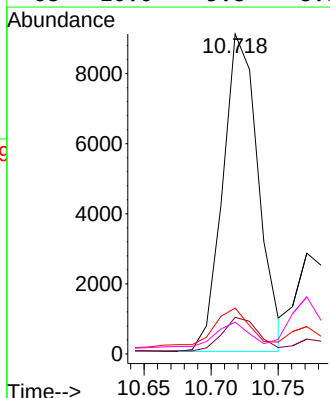
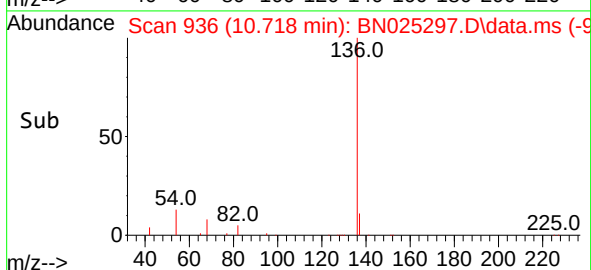
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

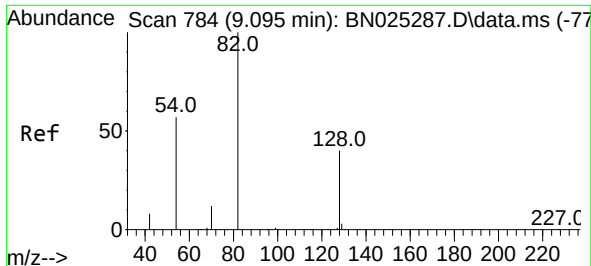


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48



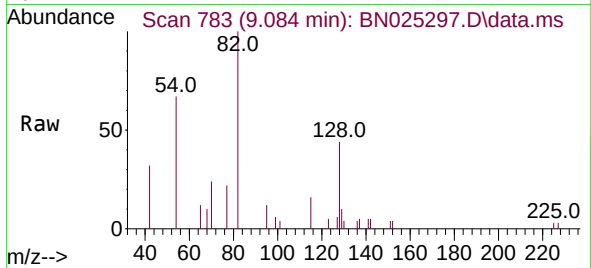
Tgt Ion:136 Resp: 16748
Ion Ratio Lower Upper
136 100
137 11.5 9.4 14.2
54 14.3 8.5 12.7#
68 10.0 5.8 8.8#





#8
Nitrobenzene-d5
Concen: 0.270 ng
RT: 9.084 min Scan# 784
Delta R.T. -0.011 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

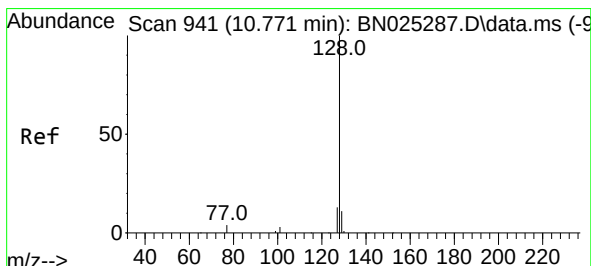
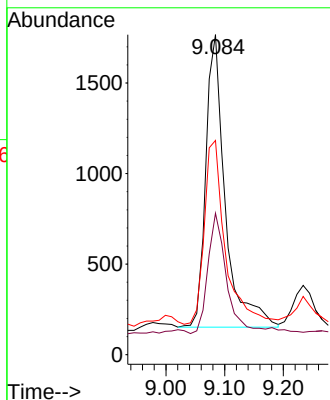
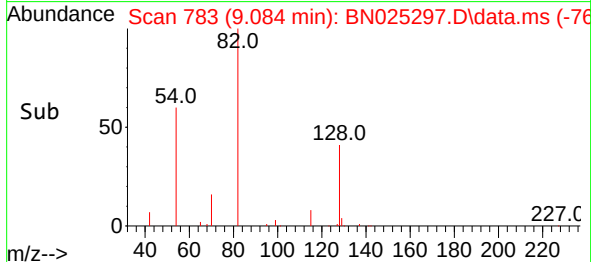
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



Tgt Ion: 82 Resp: 371
Ion Ratio Lower Upper
82 100
128 44.2 35.3 52.9
54 66.9 48.7 73.1

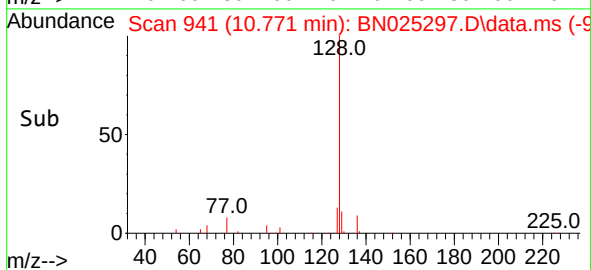
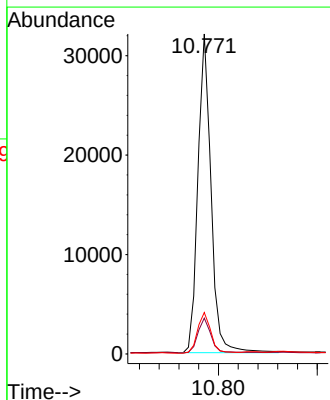
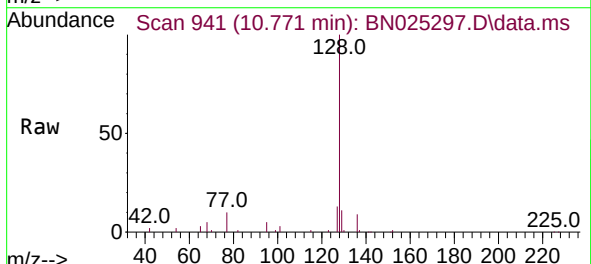
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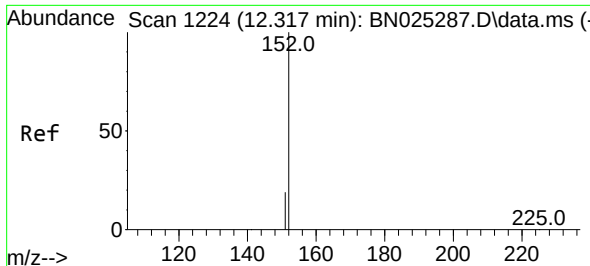
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#9
Naphthalene
Concen: 1.373 ng
RT: 10.771 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

Tgt Ion:128 Resp: 59005
Ion Ratio Lower Upper
128 100
129 11.2 9.4 14.2
127 13.0 11.0 16.6





#11

2-Methylnaphthalene-d10

Concen: 0.282 ng

RT: 12.313 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

Instrument :

BNA_N

ClientSampleId :

ZONE-C-6-9-05012023

Tgt Ion:152 Resp: 646

Ion Ratio Lower Upper

152 100

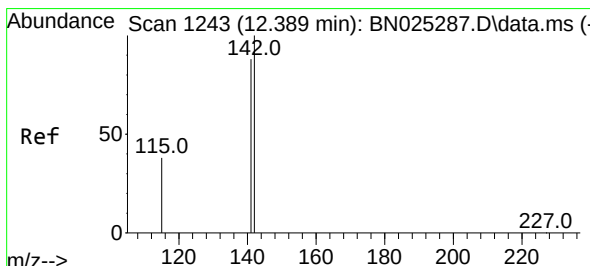
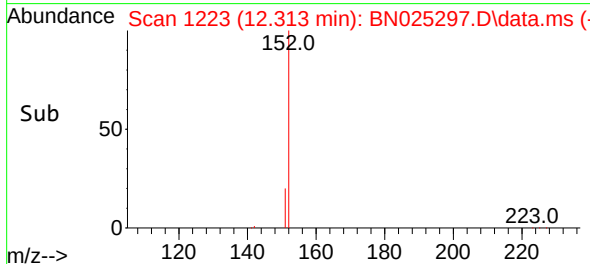
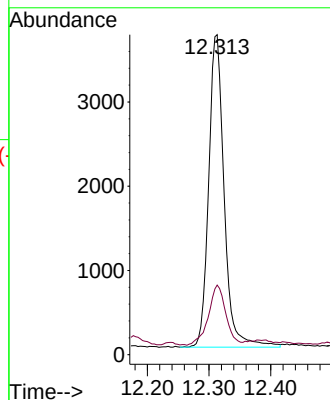
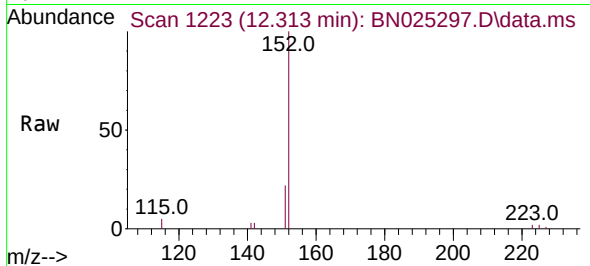
151 21.8 16.4 24.6

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Supervised By :Jagrut Upadhyay 05/08/2023



#12

2-Methylnaphthalene

Concen: 0.760 ng

RT: 12.385 min Scan# 1242

Delta R.T. -0.004 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

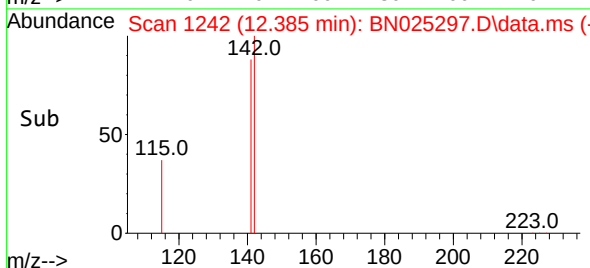
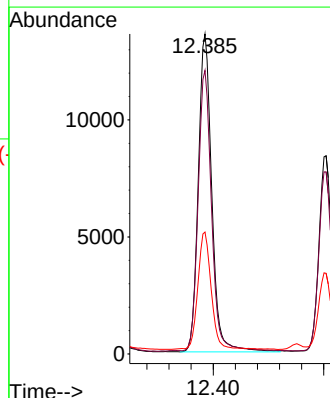
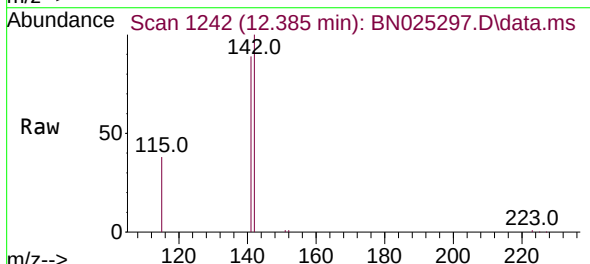
Tgt Ion:142 Resp: 23082

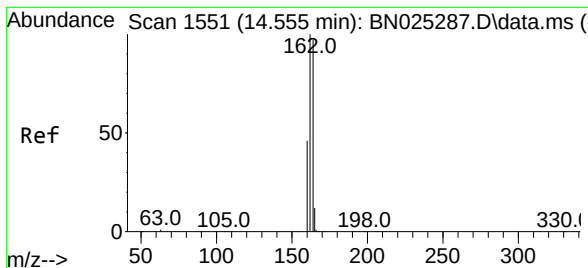
Ion Ratio Lower Upper

142 100

141 88.6 70.5 105.7

115 38.1 31.6 47.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.555 min Scan# 1148

Delta R.T. 0.000 min

Lab File: BN025297.D

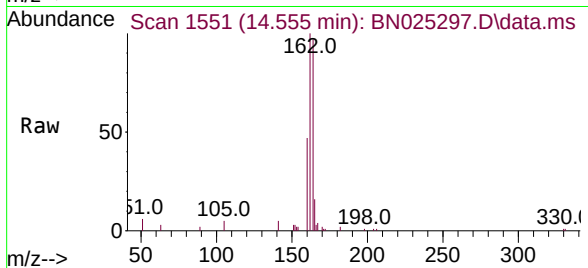
Acq: 06 May 2023 02:48

Instrument :

BNA_N

ClientSampleId :

ZONE-C-6-9-05012023



Tgt Ion:164 Resp: 1148

Ion Ratio Lower Upper

164 100

162 103.4 82.1 123.1

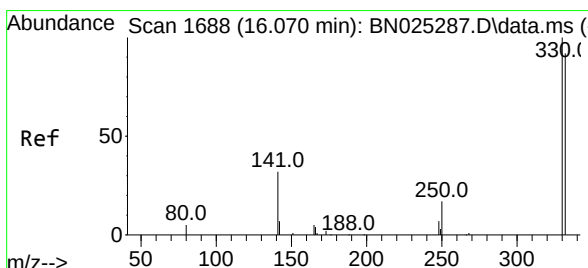
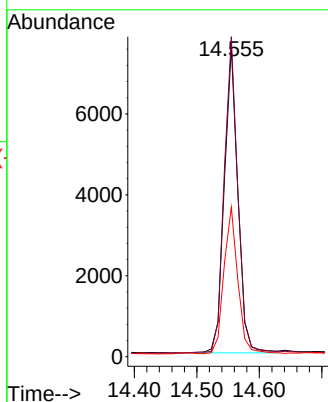
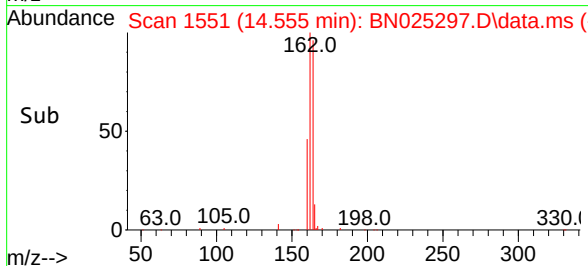
160 48.3 38.3 57.5

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/08/2023



#14

2,4,6-Tribromophenol

Concen: 0.325 ng

RT: 16.057 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

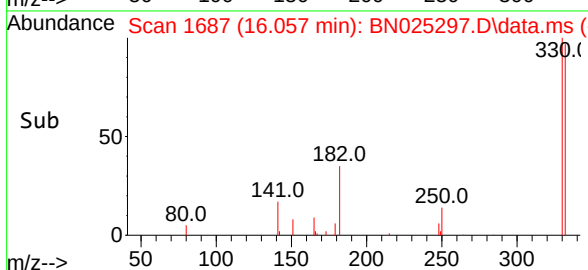
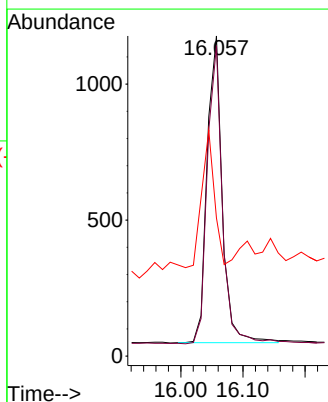
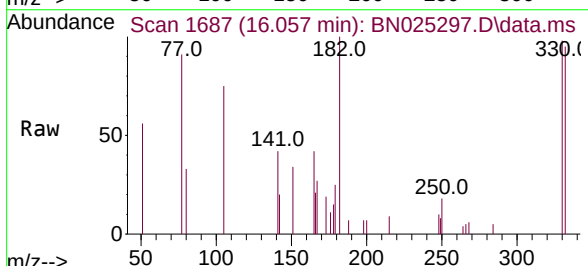
Tgt Ion:330 Resp: 1909

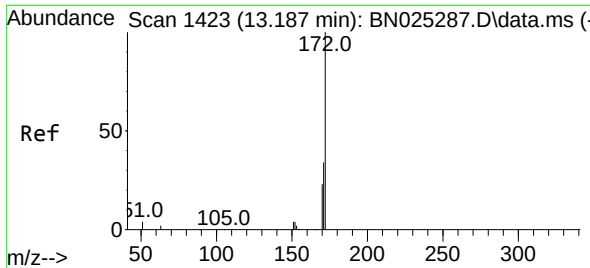
Ion Ratio Lower Upper

330 100

332 97.4 77.4 116.0

141 38.9 28.9 43.3





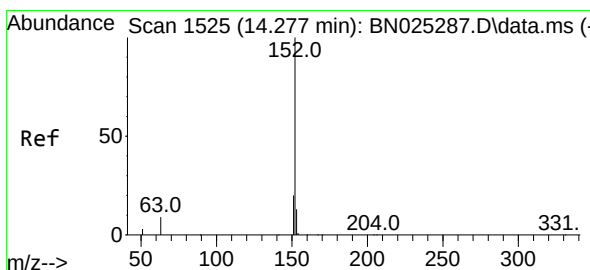
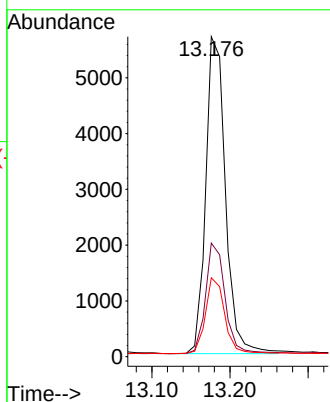
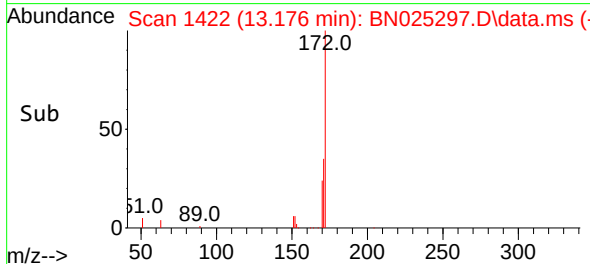
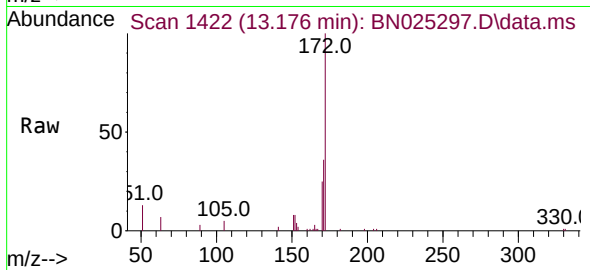
#15
2-Fluorobiphenyl
Concen: 0.253 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025297.D
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ClientSampleId :
ZONE-C-6-9-05012023

Tgt Ion:	172	Resp:	998
Ion Ratio	Lower	Upper	
172	100		
171	35.5	27.9	41.9
170	24.7	19.0	28.4

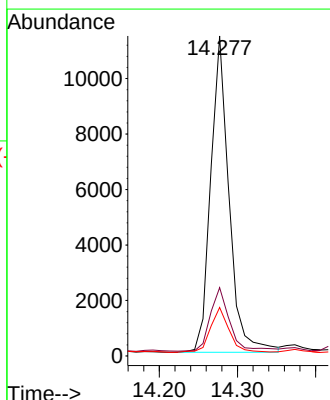
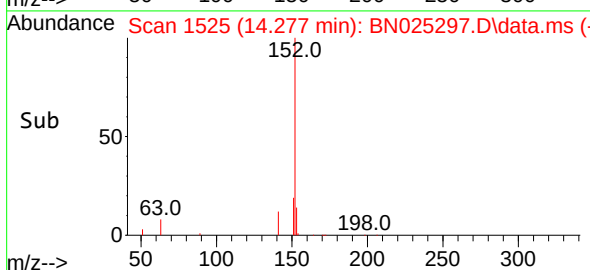
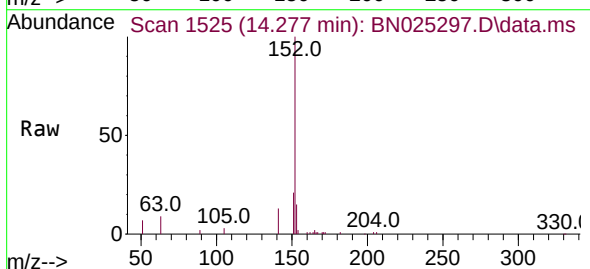
Manual Integrations
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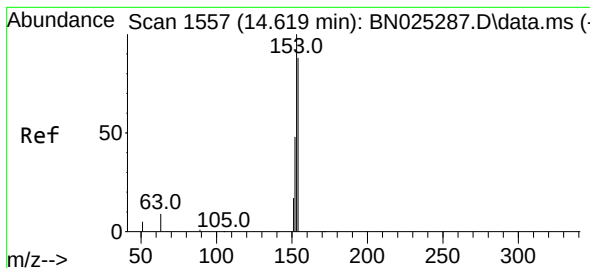
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#16
Acenaphthylene
Concen: 0.362 ng
RT: 14.277 min Scan# 1525
Delta R.T. 0.000 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

Tgt Ion:	152	Resp:	18593
Ion Ratio	Lower	Upper	
152	100		
151	21.3	16.1	24.1
153	14.5	10.3	15.5





#17

Acenaphthene

Concen: 0.185 ng

RT: 14.619 min Scan# 1557

Delta R.T. 0.000 min

Lab File: BN025297.D

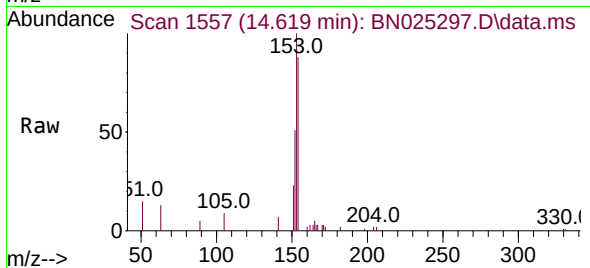
Acq: 06 May 2023 02:48

Instrument :

BNA_N

ClientSampleId :

ZONE-C-6-9-05012023



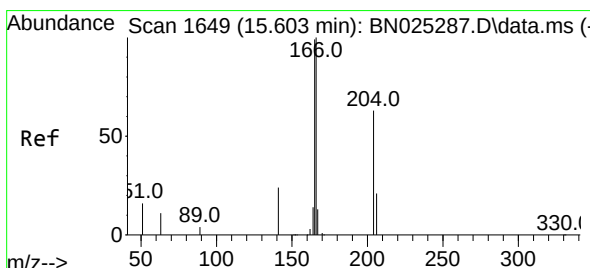
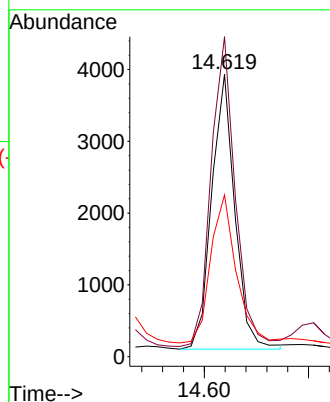
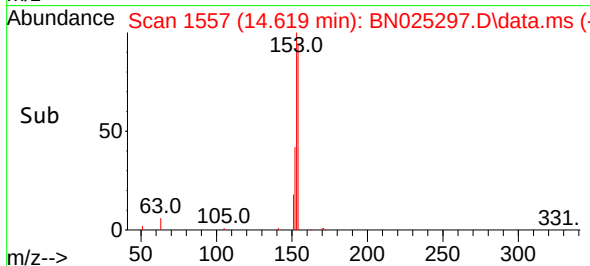
Tgt Ion:	154	Resp:	5924
Ion Ratio	Lower	Upper	
154	100		
153	116.4	91.3	136.9
152	59.6	44.7	67.1

Manual Integrations

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#18

Fluorene

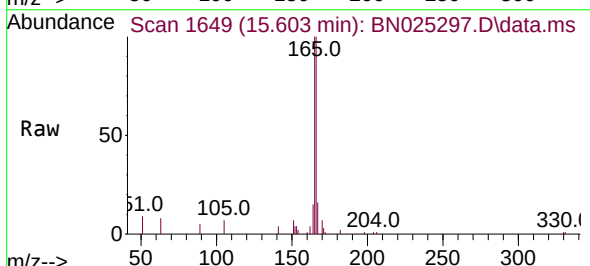
Concen: 0.265 ng

RT: 15.603 min Scan# 1649

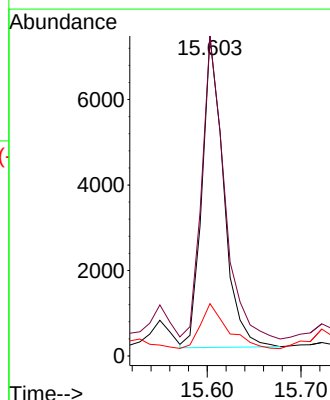
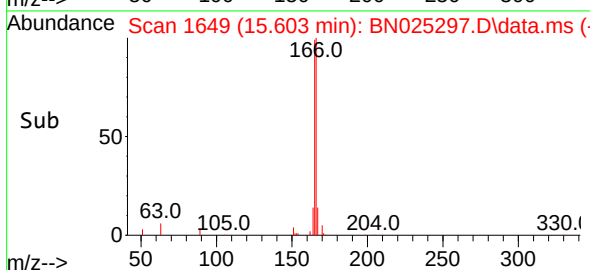
Delta R.T. 0.000 min

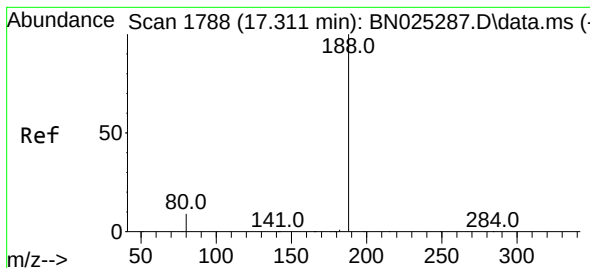
Lab File: BN025297.D

Acq: 06 May 2023 02:48



Tgt Ion:	166	Resp:	11617
Ion Ratio	Lower	Upper	
166	100		
165	102.7	79.0	118.4
167	18.0	10.3	15.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.299 min Scan# 1787

Delta R.T. -0.012 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

Instrument :

BNA_N

ClientSampleId :

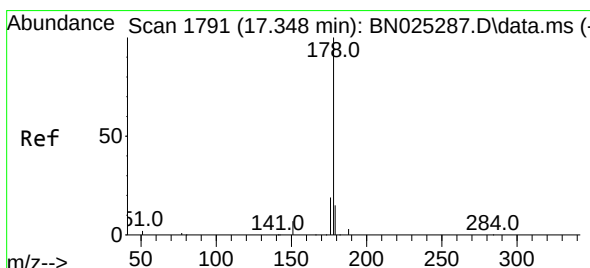
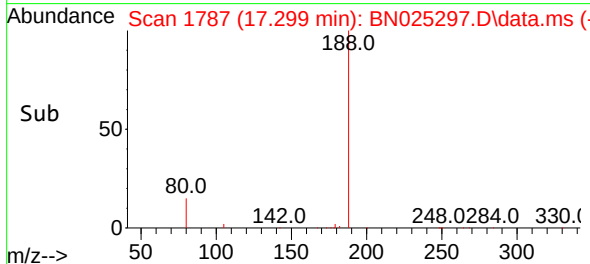
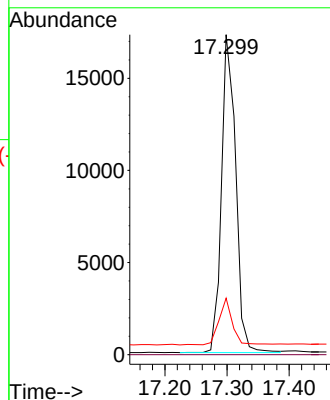
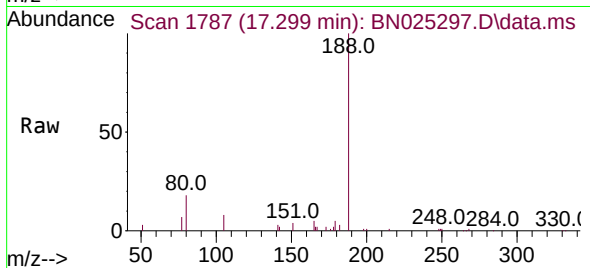
ZONE-C-6-9-05012023

Tgt Ion:188 Resp: 27290
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 17.6 8.0 12.0

Manual Integrations

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



#25

Phenanthrene

Concen: 1.732 ng

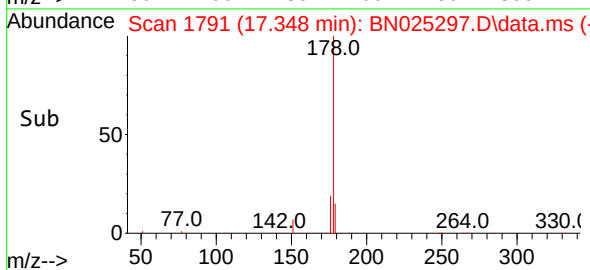
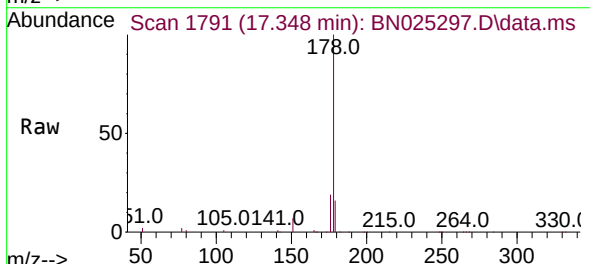
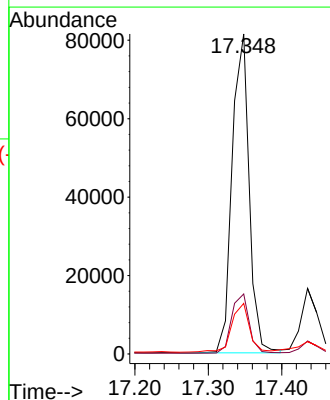
RT: 17.348 min Scan# 1791

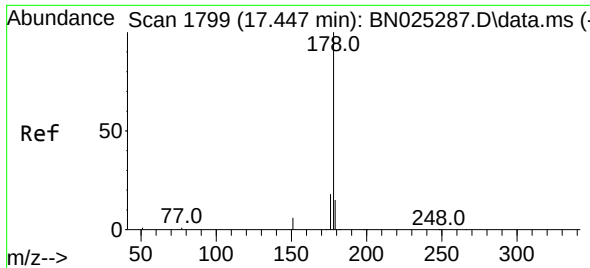
Delta R.T. 0.000 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

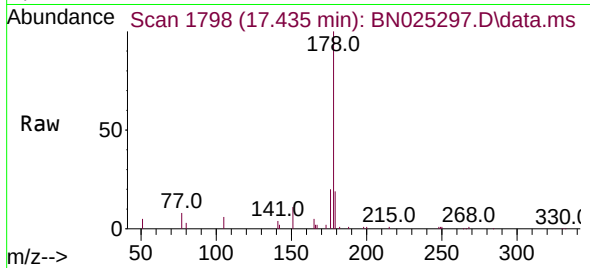
Tgt Ion:178 Resp: 130791
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.5 23.3
 179 16.0 12.4 18.6





#26
 Anthracene
 Concen: 0.360 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN025297.D
 Acq: 06 May 2023 02:48

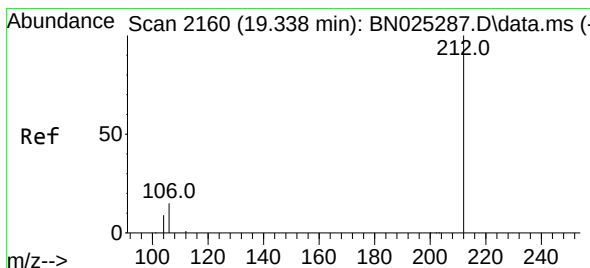
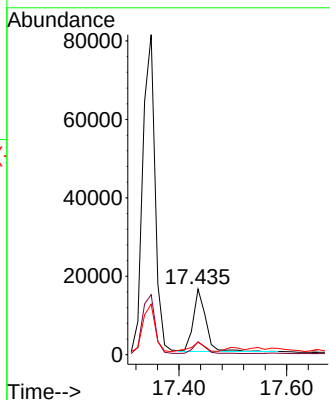
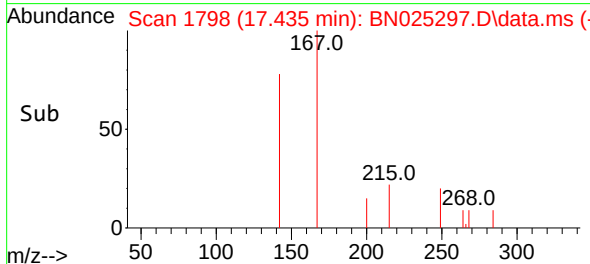
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-C-6-9-05012023



Tgt Ion:178 Resp: 2546
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.9 22.3
 179 16.9 12.0 18.0

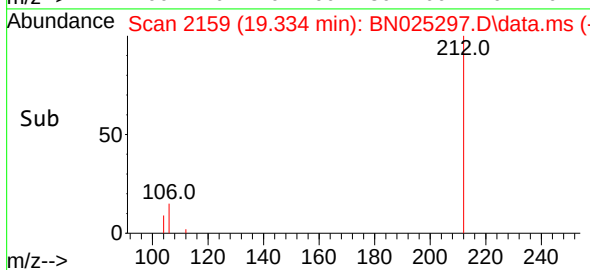
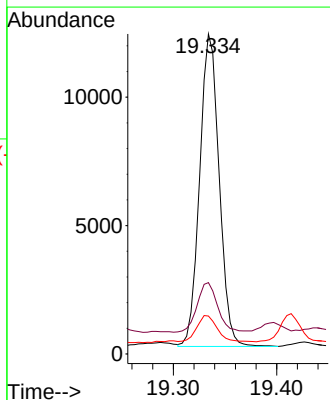
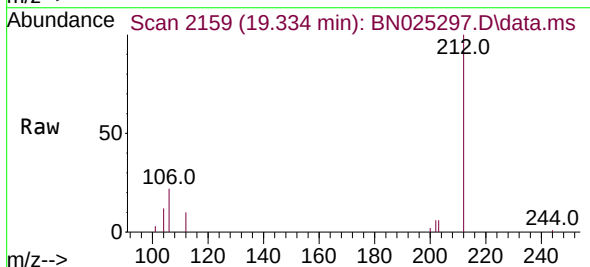
Manual Integrations
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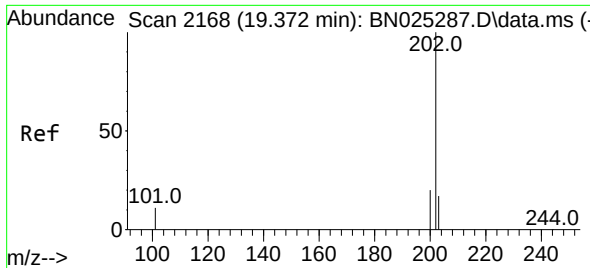
Reviewed By :Christian Giraldo 05/08/2023
 Supervised By :Jagrut Upadhyay 05/08/2023



#27
 Fluoranthene-d10
 Concen: 0.237 ng
 RT: 19.334 min Scan# 2159
 Delta R.T. -0.004 min
 Lab File: BN025297.D
 Acq: 06 May 2023 02:48

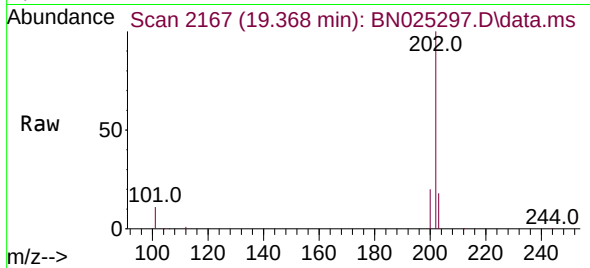
Tgt Ion:212 Resp: 15965
 Ion Ratio Lower Upper
 212 100
 106 16.7 12.6 19.0
 104 9.0 7.0 10.6





#28
Fluoranthene
Concen: 3.144 ng
RT: 19.368 min Scan# 2167
Delta R.T. -0.004 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

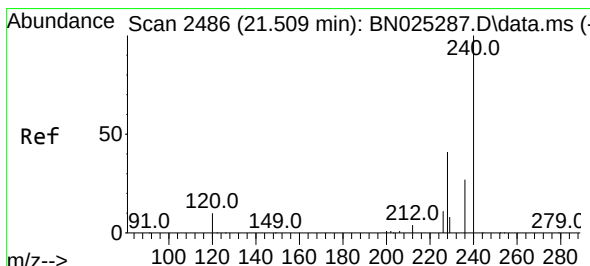
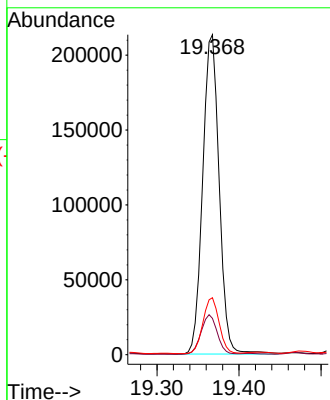
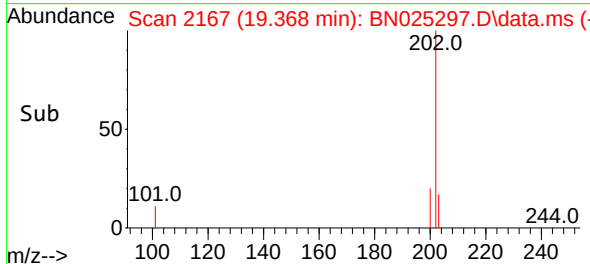
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



Tgt Ion:202 Resp: 29665
Ion Ratio Lower Upper
202 100
101 12.1 9.8 14.8
203 17.2 13.5 20.3

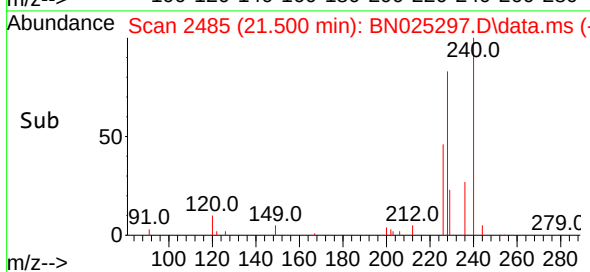
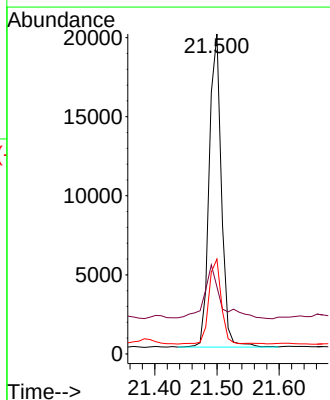
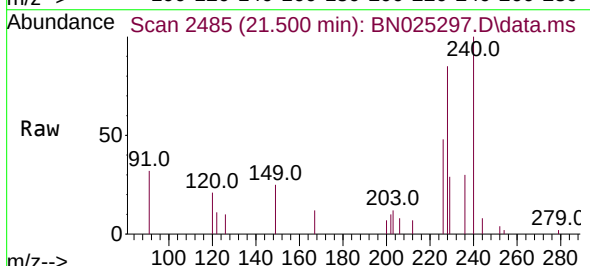
Manual Integrations
APPROVED

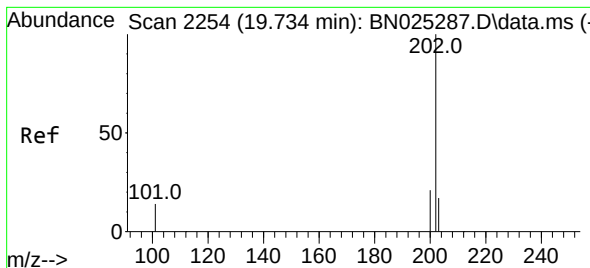
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.500 min Scan# 2485
Delta R.T. -0.009 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

Tgt Ion:240 Resp: 26764
Ion Ratio Lower Upper
240 100
120 21.0 10.3 15.5#
236 29.6 22.3 33.5





#30

Pyrene

Concen: 2.936 ng

RT: 19.730 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

Instrument :

BNA_N

ClientSampleId :

ZONE-C-6-9-05012023

Tgt Ion:202 Resp: 268600

Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

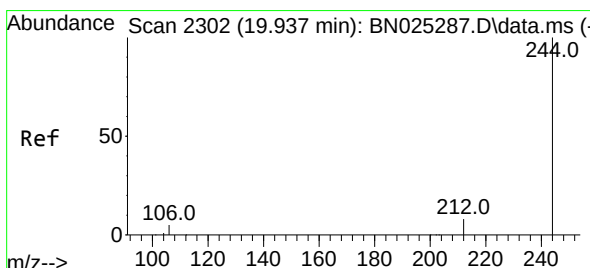
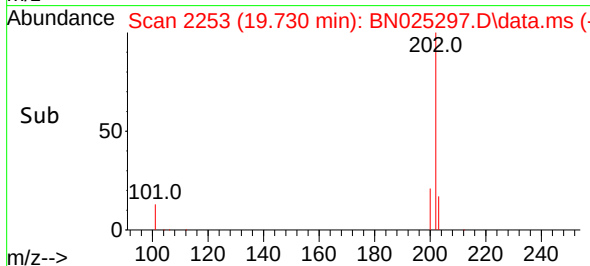
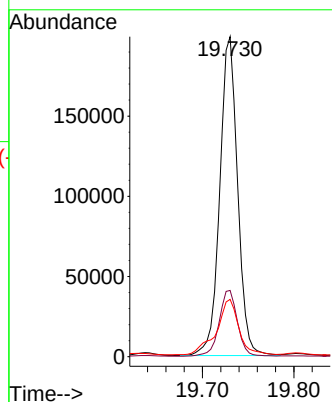
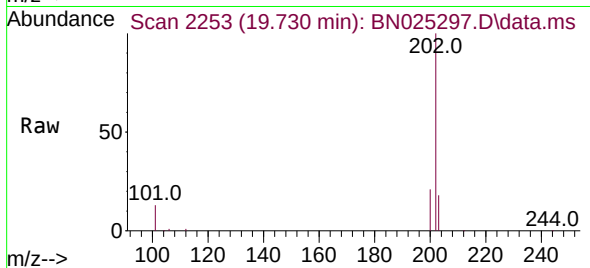
203 21.7 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/08/2023

Supervised By :Jagrut Upadhyay 05/08/2023



#31

Terphenyl-d14

Concen: 0.237 ng

RT: 19.928 min Scan# 2300

Delta R.T. -0.008 min

Lab File: BN025297.D

Acq: 06 May 2023 02:48

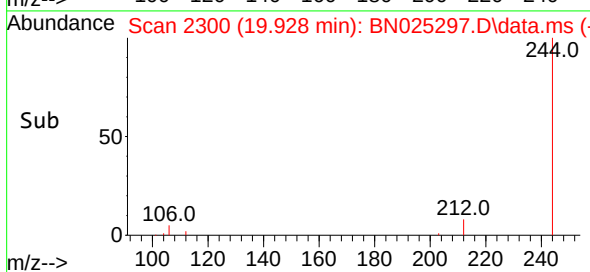
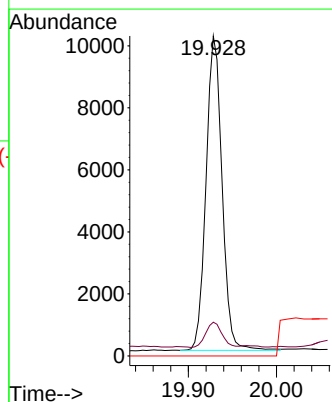
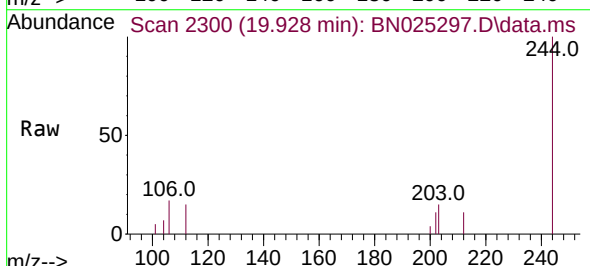
Tgt Ion:244 Resp: 12798

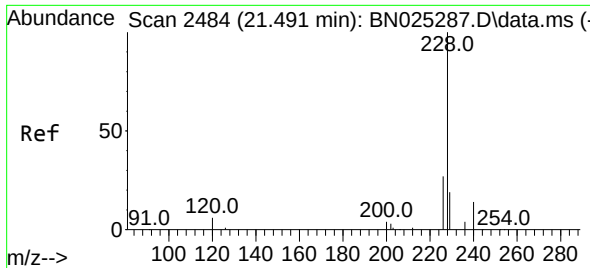
Ion Ratio Lower Upper

244 100

212 10.6 7.1 10.7

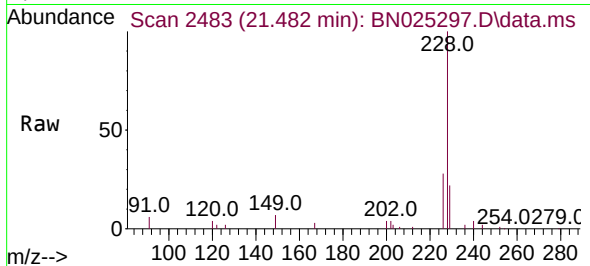
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 1.580 ng
RT: 21.482 min Scan# 2483
Delta R.T. -0.009 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

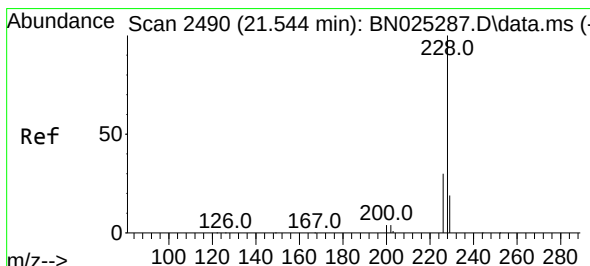
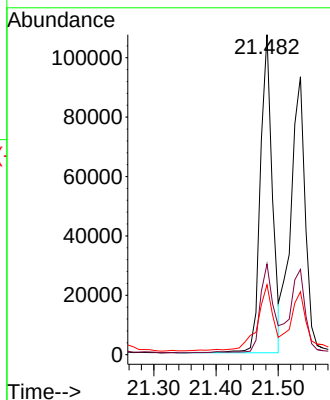
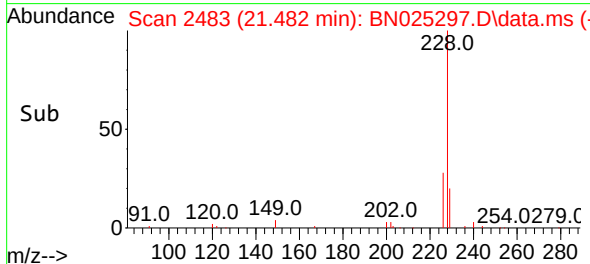
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



Tgt Ion:228 Resp: 142924
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 21.8 16.2 24.2

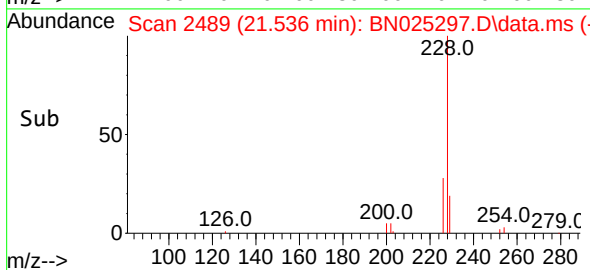
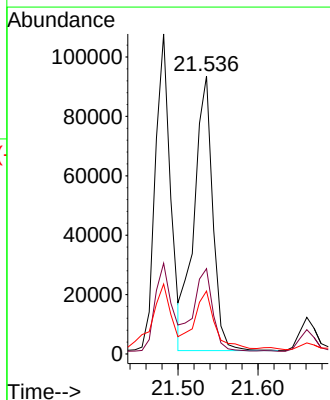
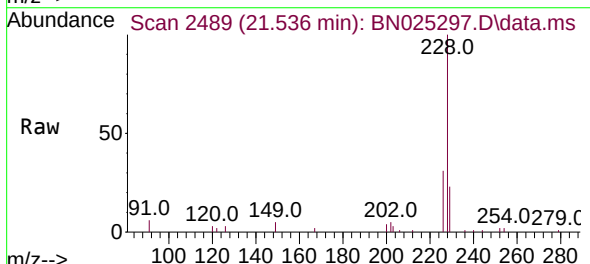
Manual Integrations
APPROVED

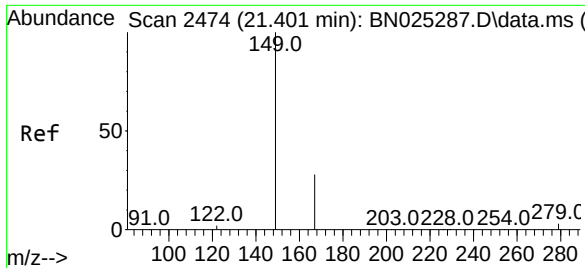
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#33
Chrysene
Concen: 1.664 ng
RT: 21.536 min Scan# 2489
Delta R.T. -0.009 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

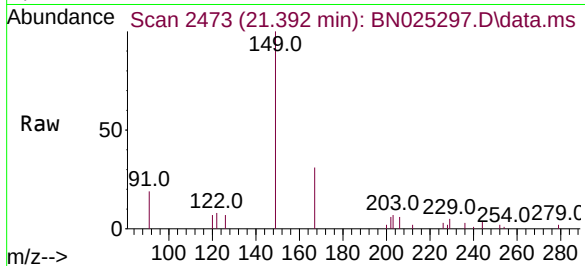
Tgt Ion:228 Resp: 149807
Ion Ratio Lower Upper
228 100
226 30.7 24.6 36.8
229 22.6 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.505 ng
RT: 21.392 min Scan# 2473
Delta R.T. -0.009 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

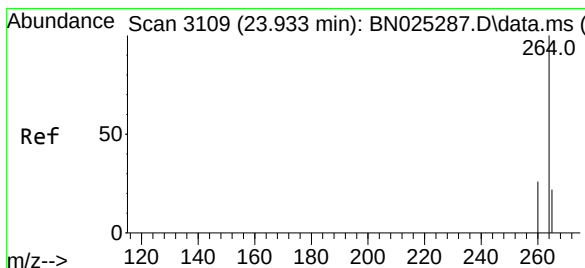
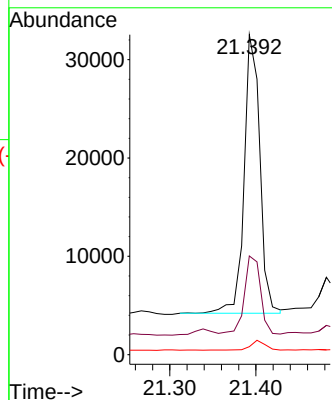
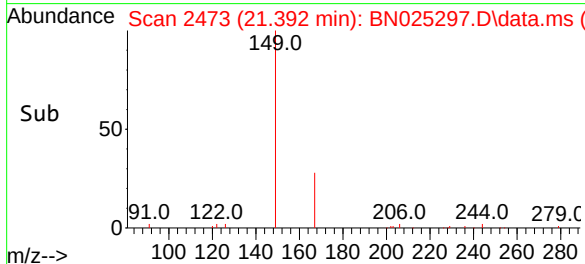
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



Tgt Ion:149 Resp: 3581
Ion Ratio Lower Upper
149 100
167 28.9 22.2 33.4
279 3.3 2.6 4.0

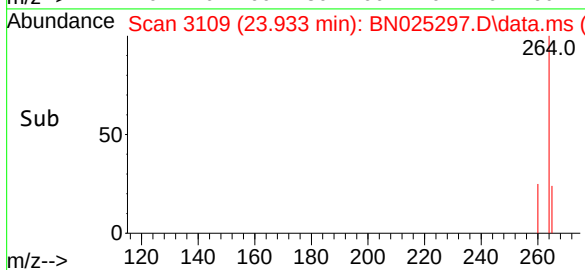
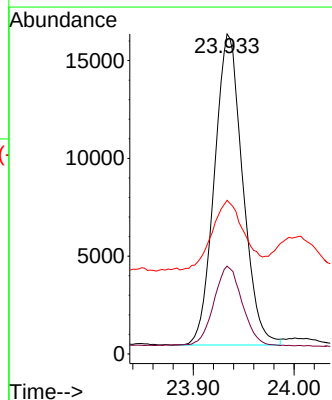
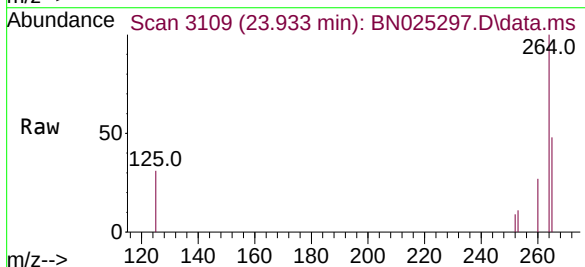
Manual Integrations
APPROVED

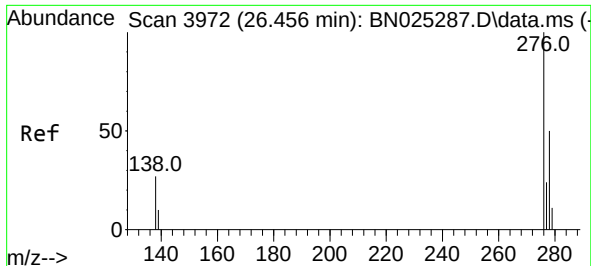
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.933 min Scan# 3109
Delta R.T. 0.000 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

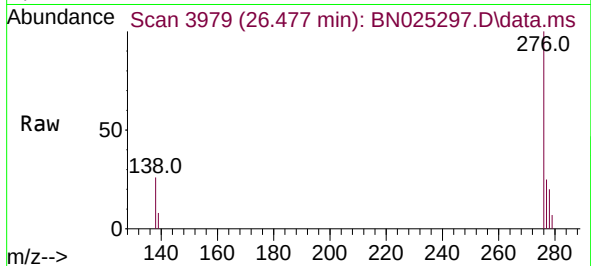
Tgt Ion:264 Resp: 30966
Ion Ratio Lower Upper
264 100
260 27.4 21.5 32.3
265 48.0 46.2 69.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.775 ng
RT: 26.477 min Scan# 3972
Delta R.T. 0.021 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

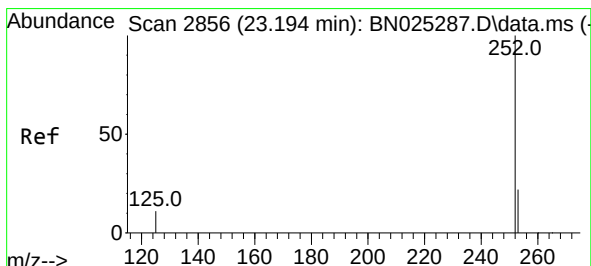
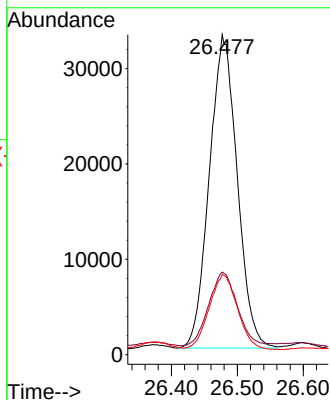
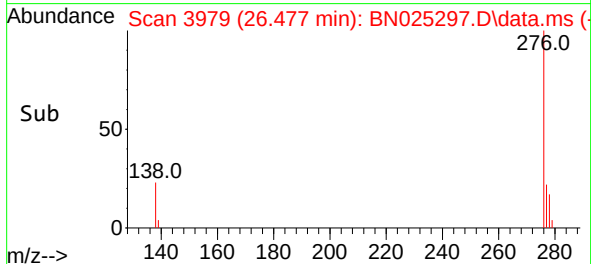
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



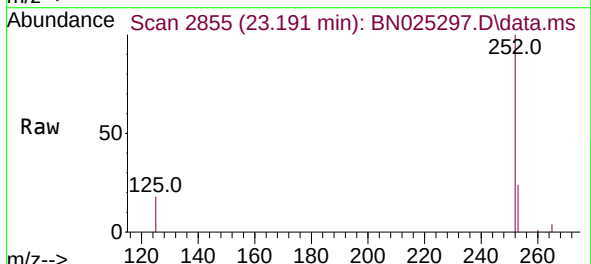
Tgt Ion:276 Resp: 96254
Ion Ratio Lower Upper
276 100
138 23.9 22.5 33.7
277 24.4 19.8 29.6

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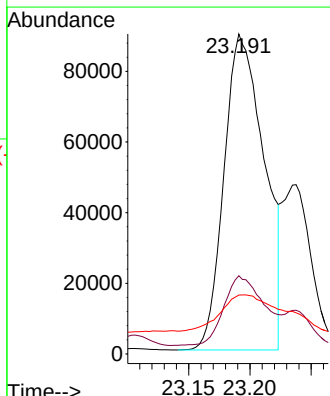
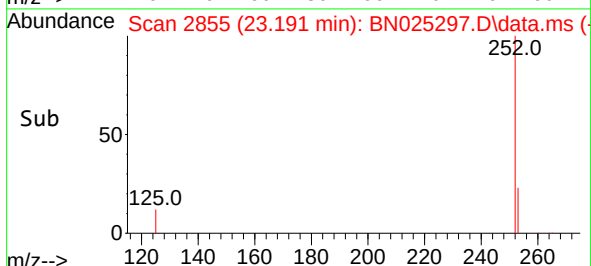
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

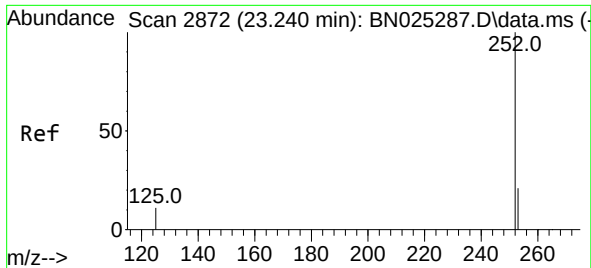


#37
Benzo(b)fluoranthene
Concen: 2.081 ng
RT: 23.191 min Scan# 2855
Delta R.T. -0.003 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48



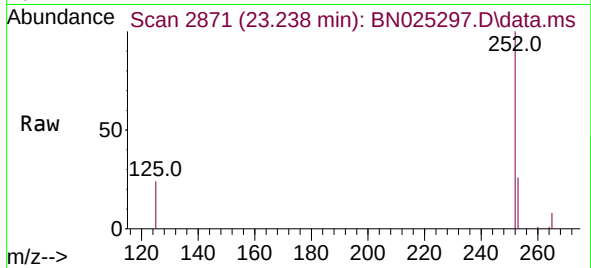
Tgt Ion:252 Resp: 204231
Ion Ratio Lower Upper
252 100
253 24.5 20.8 31.2
125 18.4 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.751 ng m
RT: 23.238 min Scan# 2871
Delta R.T. -0.003 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

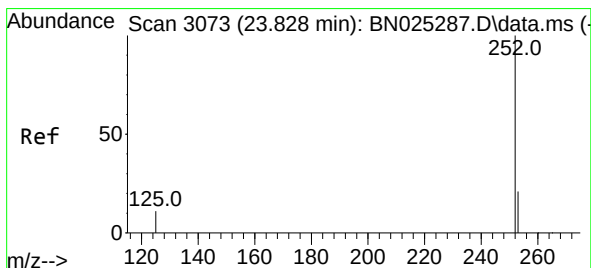
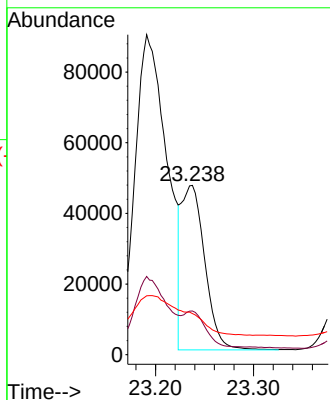
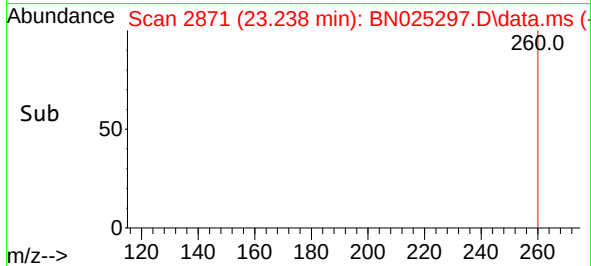
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



Tgt Ion:252 Resp: 7714
Ion Ratio Lower Upper
252 100
253 25.8 20.6 30.8
125 24.3 13.1 19.7

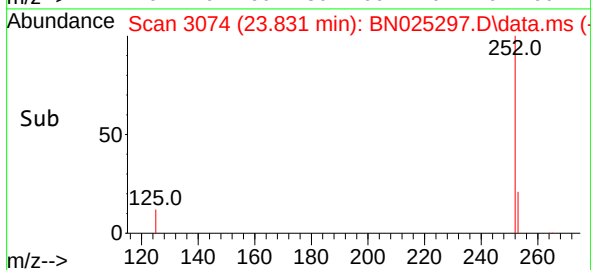
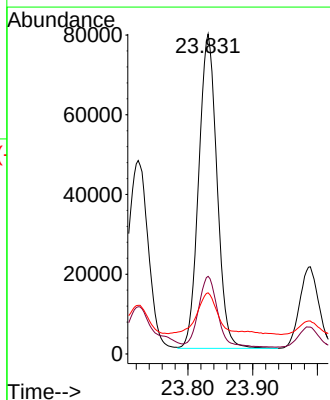
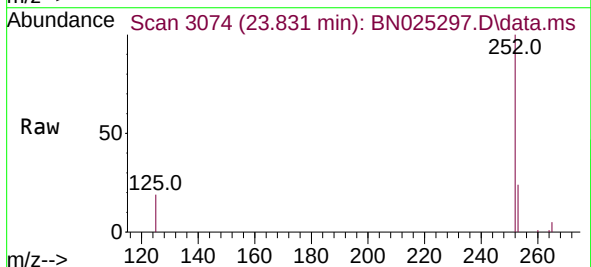
Manual Integrations
APPROVED

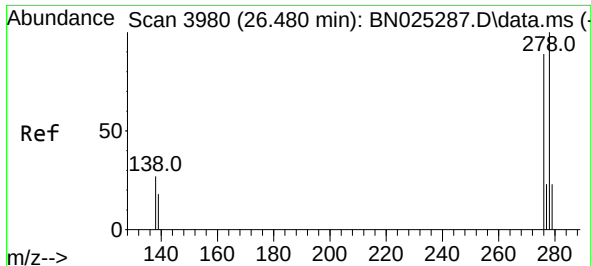
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#39
Benzo(a)pyrene
Concen: 1.533 ng
RT: 23.831 min Scan# 3074
Delta R.T. 0.003 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

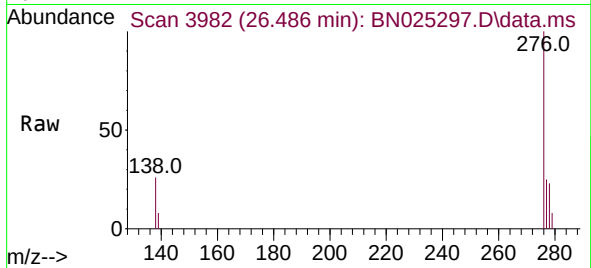
Tgt Ion:252 Resp: 154198
Ion Ratio Lower Upper
252 100
253 24.2 21.4 32.0
125 19.1 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.240 ng
RT: 26.486 min Scan# 3980
Delta R.T. 0.006 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48

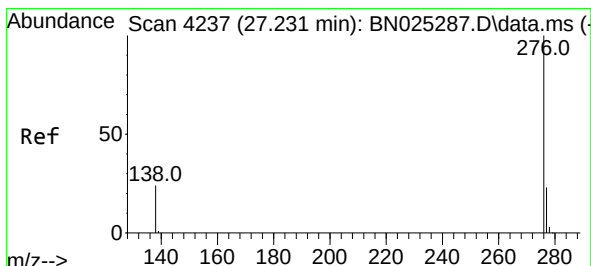
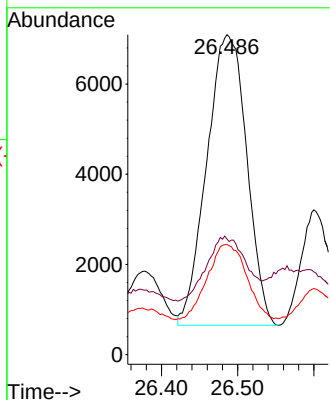
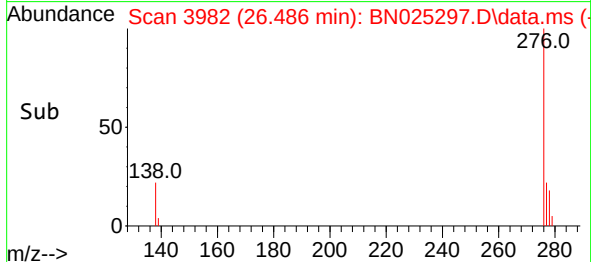
Instrument :
BNA_N
ClientSampleId :
ZONE-C-6-9-05012023



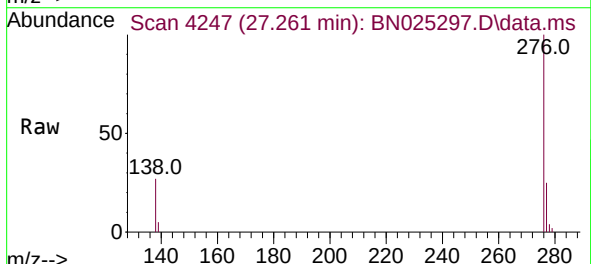
Tgt Ion:278 Resp: 23480
Ion Ratio Lower Upper
278 100
139 36.2 17.6 26.4
279 34.4 21.6 32.4

Manual Integrations
APPROVED

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



#41
Benzo(g,h,i)perylene
Concen: 0.880 ng
RT: 27.261 min Scan# 4247
Delta R.T. 0.029 min
Lab File: BN025297.D
Acq: 06 May 2023 02:48



Tgt Ion:276 Resp: 94738
Ion Ratio Lower Upper
276 100
277 25.3 20.1 30.1
138 26.5 21.0 31.6

