

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025319.D
 Acq On : 06 May 2023 17:08
 Operator : CG/JU
 Sample : 02588-10
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-0-3-05022023

Manual Integrations
 APPROVED

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

Quant Time: May 08 04:01:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 08 02:37:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	9996	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	31673	0.400	ng	-0.01
13) Acenaphthene-d10	14.544	164	19110	0.400	ng	-0.01
19) Phenanthrene-d10	17.298	188	39805	0.400	ng	#-0.01
29) Chrysene-d12	21.495	240	27038	0.400	ng	#-0.01
35) Perylene-d12	23.940	264	26866	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	6557	0.269	ng	0.00
5) Phenol-d6	7.080	99	8755	0.287	ng	0.00
8) Nitrobenzene-d5	9.073	82	6342	0.243	ng	-0.02
11) 2-Methylnaphthalene-d10	12.305	152	11946	0.276	ng	-0.01
14) 2,4,6-Tribromophenol	16.045	330	2341	0.240	ng	-0.02
15) 2-Fluorobiphenyl	13.176	172	17626	0.269	ng	-0.01
27) Fluoranthene-d10	19.334	212	21182	0.215	ng	0.00
31) Terphenyl-d14	19.924	244	18138	0.333	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.760	128	58398	0.719	ng	100
12) 2-Methylnaphthalene	12.377	142	25633	0.446	ng	99
16) Acenaphthylene	14.266	152	76952	0.899	ng	99
17) Acenaphthene	14.608	154	79111	1.487	ng	100
18) Fluorene	15.603	166	102071	1.400	ng	# 98
25) Phenanthrene	17.336	178	1640911	14.900	ng	100
26) Anthracene	17.435	178	423395	4.104	ng	# 97
28) Fluoranthene	19.367	202	3065085	22.274	ng	99
30) Pyrene	19.730	202	2580369	27.916	ng	# 94
32) Benzo(a)anthracene	21.477	228	1215484	13.300	ng	98
33) Chrysene	21.531	228	1124118	12.357	ng	97
34) Bis(2-ethylhexyl)phtha...	21.396	149	90237	1.258	ng	93
36) Indeno(1,2,3-cd)pyrene	26.487	276	623769	5.792	ng	96
37) Benzo(b)fluoranthene	23.198	252	1331120	15.630	ng	95
38) Benzo(k)fluoranthene	23.239	252	493137m	5.532	ng	
39) Benzo(a)pyrene	23.835	252	955602m	10.953	ng	
40) Dibenzo(a,h)anthracene	26.496	278	158286	1.861	ng	# 89
41) Benzo(g,h,i)perylene	27.273	276	598168	6.404	ng	100

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

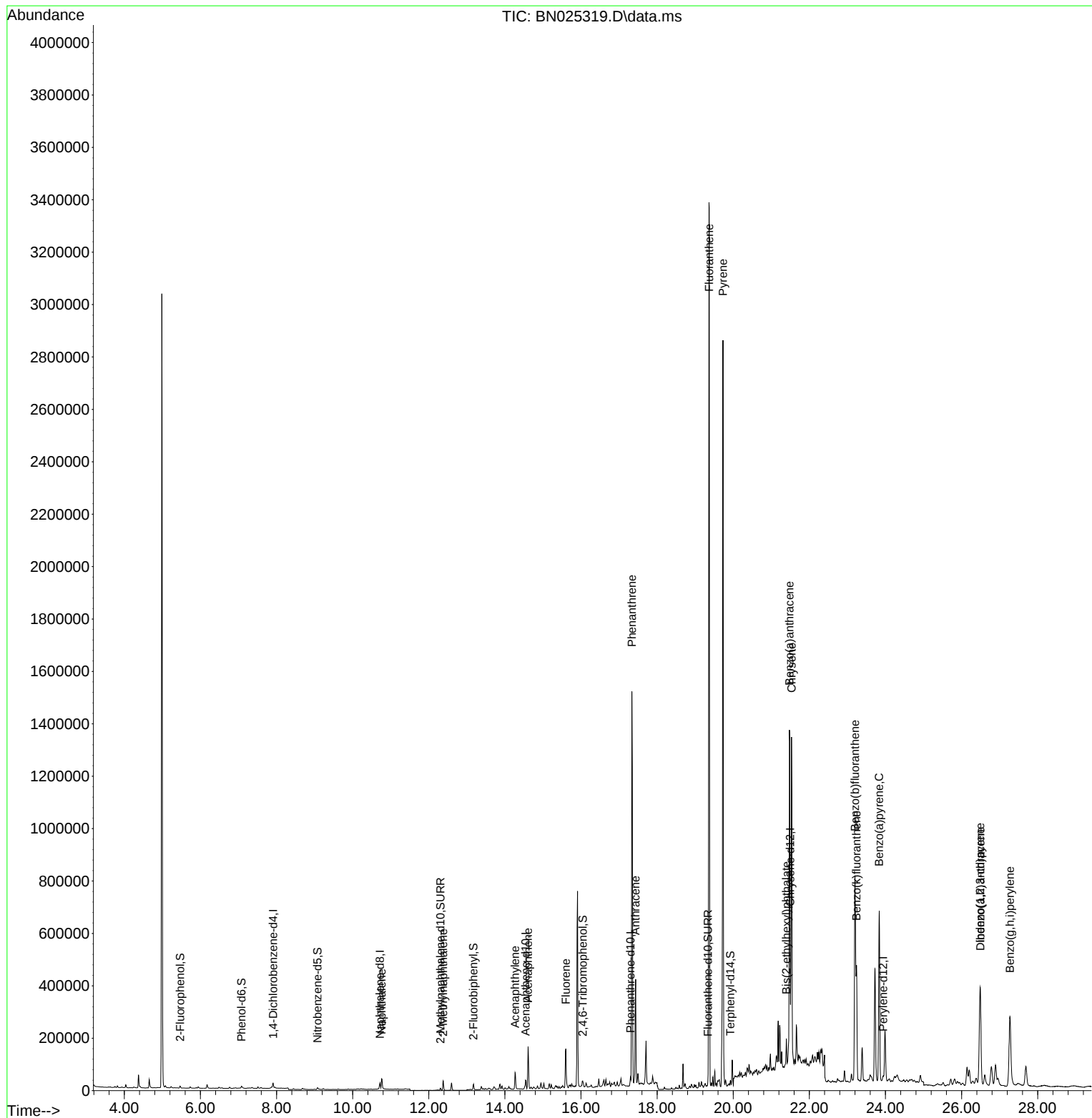
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
Data File : BN025319.D
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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APPROVED

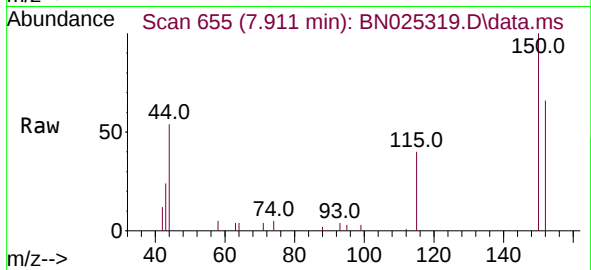
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.911 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

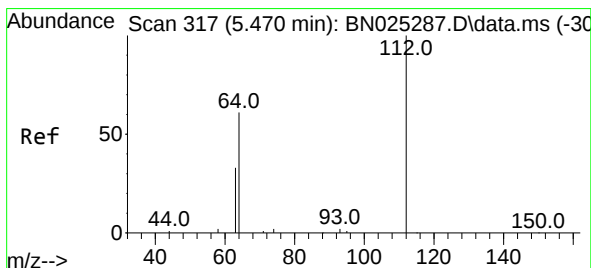
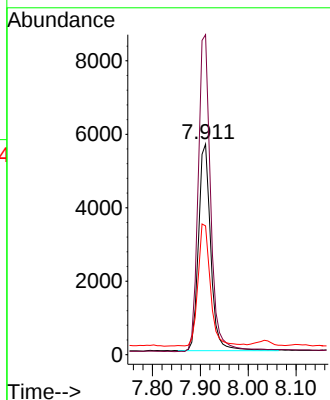
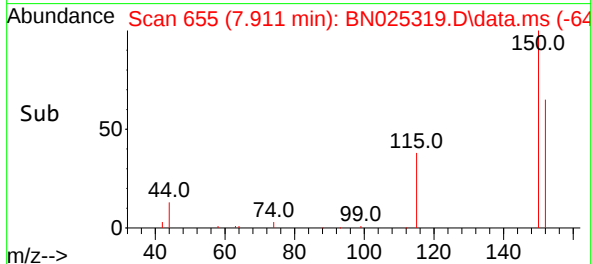
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:152 Resp: 9990
Ion Ratio Lower Upper
152 100
150 151.9 123.8 185.8
115 61.2 52.9 79.3

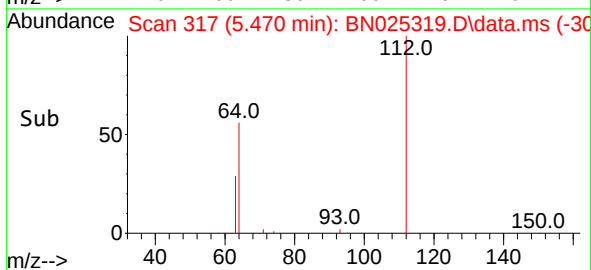
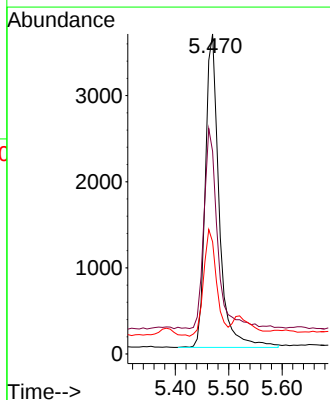
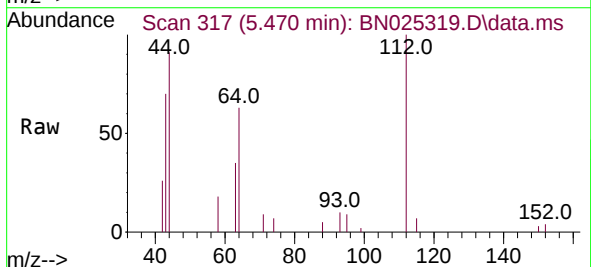
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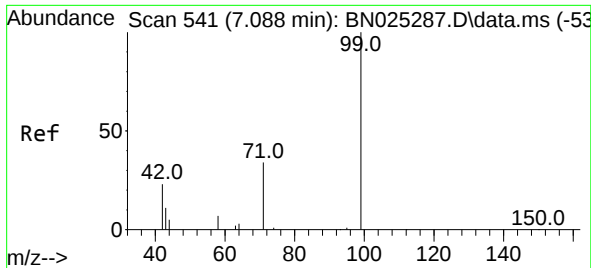
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#4
2-Fluorophenol
Concen: 0.269 ng
RT: 5.470 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

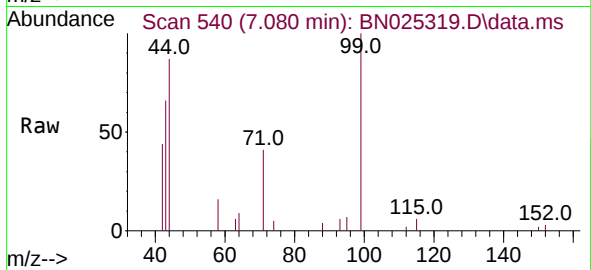
Tgt Ion:112 Resp: 6557
Ion Ratio Lower Upper
112 100
64 63.2 51.5 77.3
63 32.0 27.8 41.6





#5
Phenol-d6
Concen: 0.287 ng
RT: 7.080 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

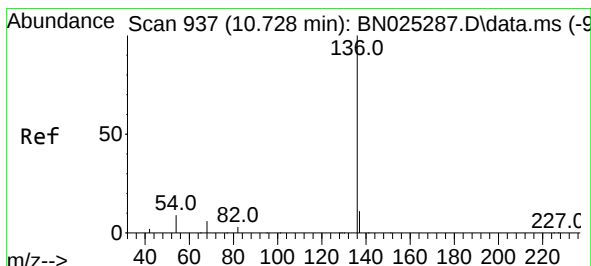
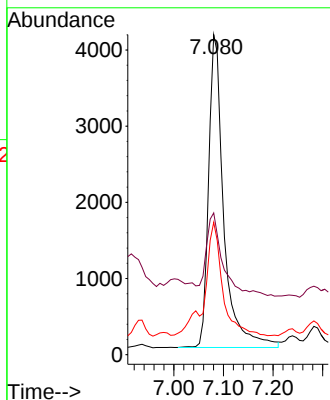
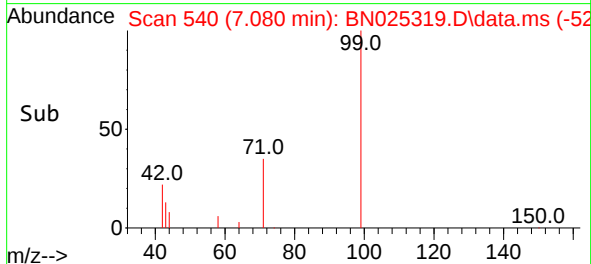
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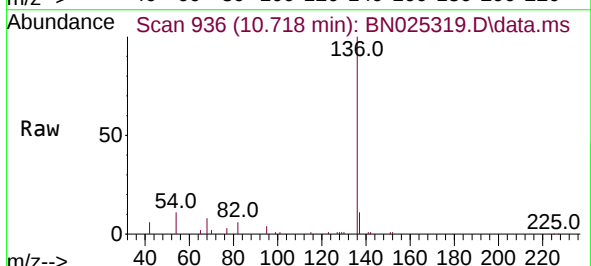
Tgt Ion: 99 Resp: 875
Ion Ratio Lower Upper
99 100
42 29.5 22.0 33.0
71 42.0 28.7 43.1

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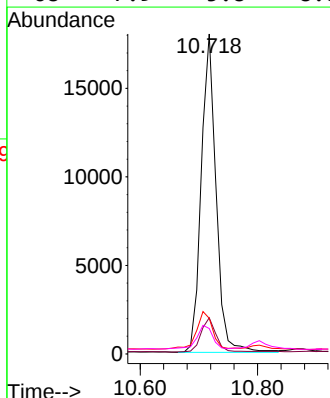
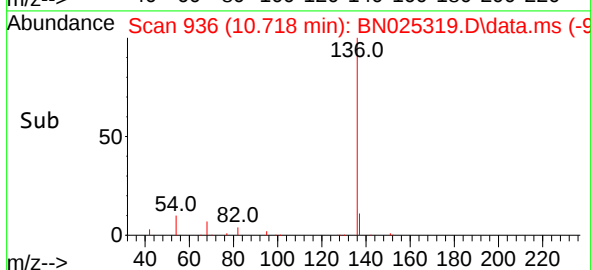
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

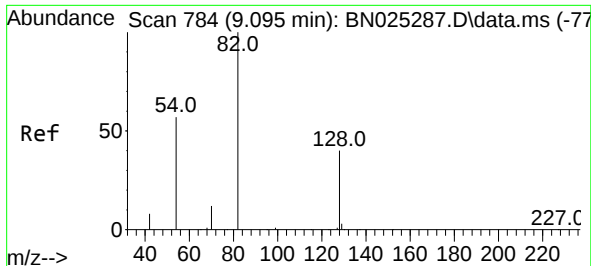


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08



Tgt Ion:136 Resp: 31673
Ion Ratio Lower Upper
136 100
137 11.3 9.4 14.2
54 11.2 8.5 12.7
68 7.9 5.8 8.8





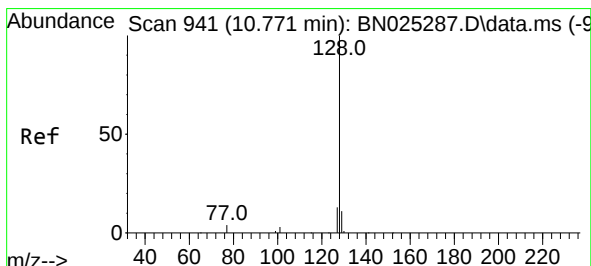
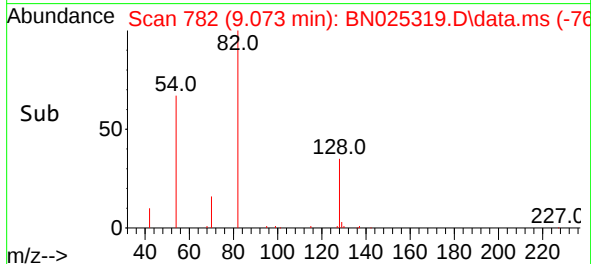
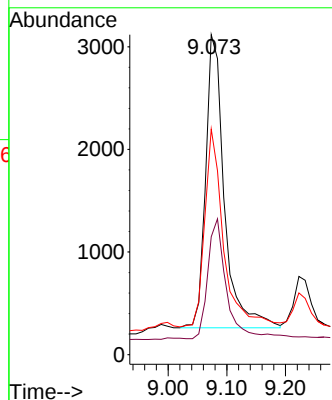
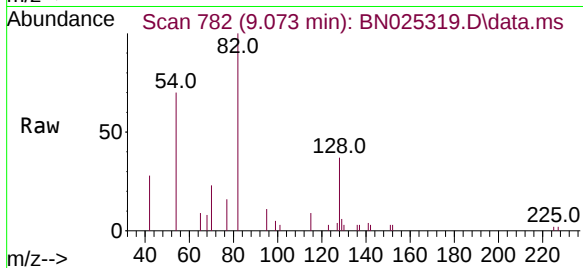
#8
Nitrobenzene-d5
Concen: 0.243 ng
RT: 9.073 min Scan# 71
Delta R.T. -0.021 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023

Tgt Ion: 82 Resp: 634
Ion Ratio Lower Upper
82 100
128 36.8 35.3 52.9
54 70.5 48.7 73.1

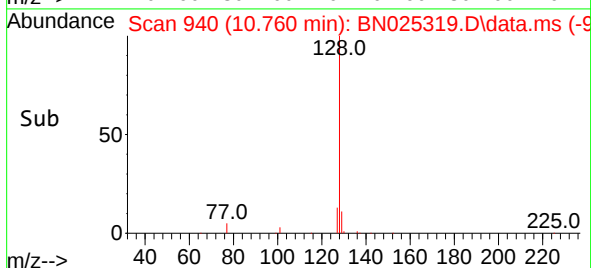
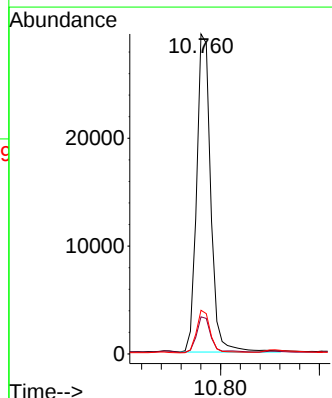
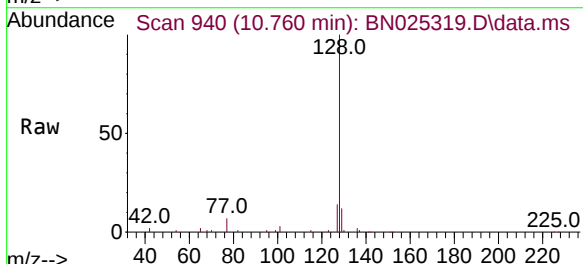
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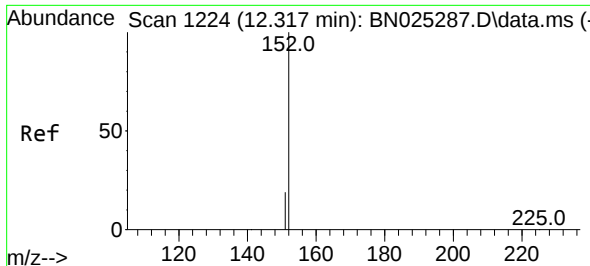
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#9
Naphthalene
Concen: 0.719 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

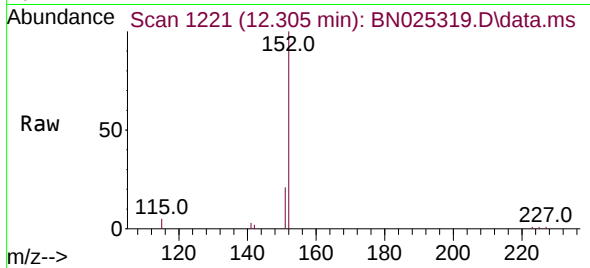
Tgt Ion:128 Resp: 58398
Ion Ratio Lower Upper
128 100
129 11.6 9.4 14.2
127 13.6 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.276 ng
RT: 12.305 min Scan# 1194
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

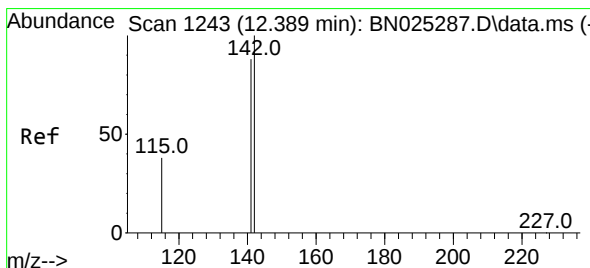
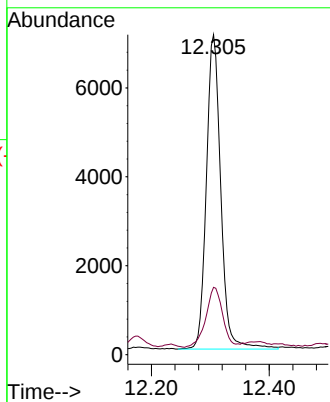
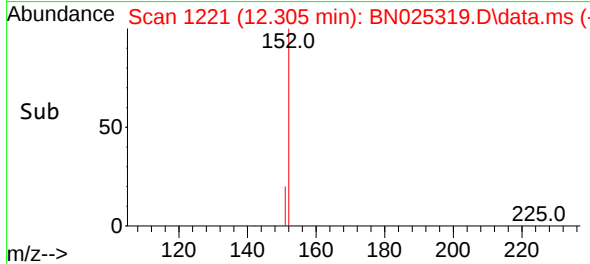
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:152 Resp: 1194
Ion Ratio Lower Upper
152 100
151 22.2 16.4 24.6

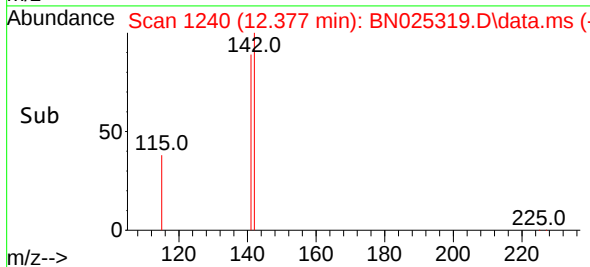
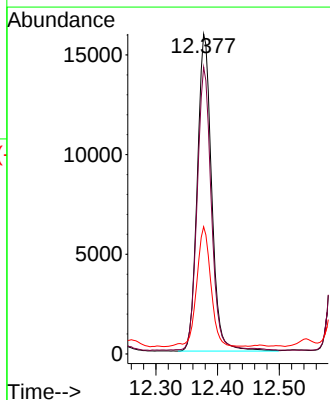
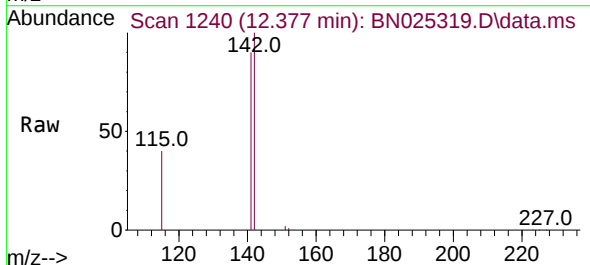
Manual Integrations
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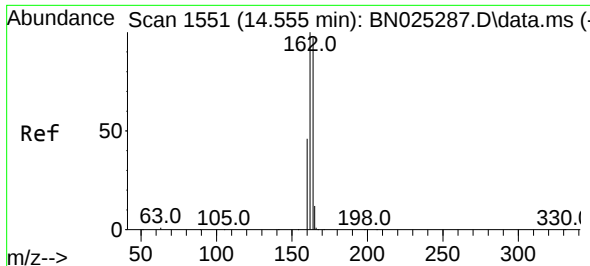
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#12
2-Methylnaphthalene
Concen: 0.446 ng
RT: 12.377 min Scan# 1240
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

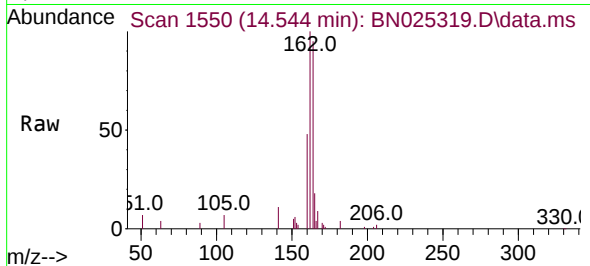
Tgt Ion:142 Resp: 25633
Ion Ratio Lower Upper
142 100
141 89.6 70.5 105.7
115 39.7 31.6 47.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.544 min Scan# 1550
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

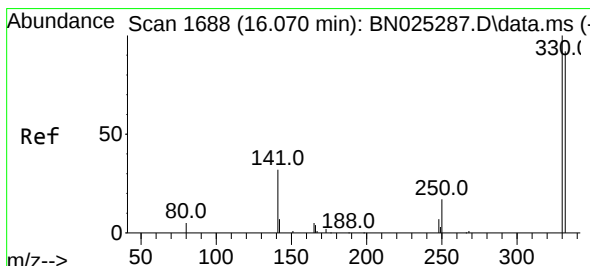
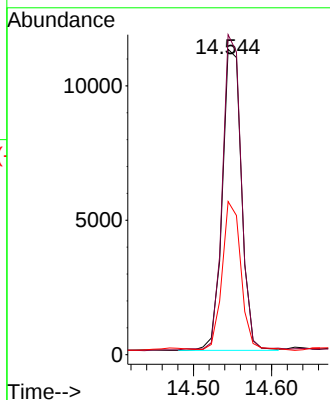
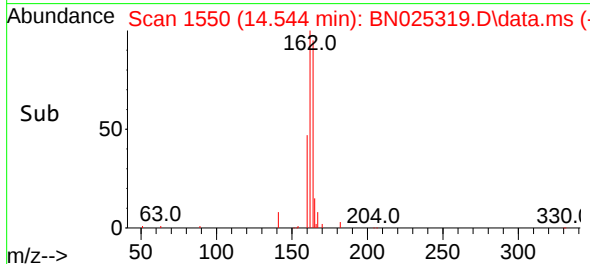
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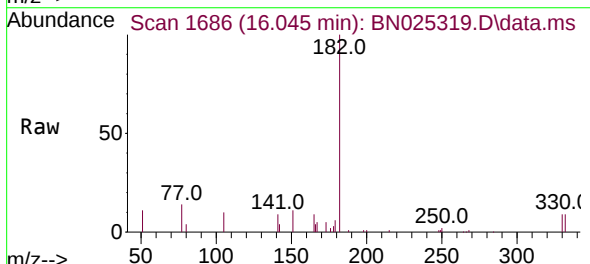
Tgt Ion:164 Resp: 19110
Ion Ratio Lower Upper
164 100
162 104.8 82.1 123.1
160 50.1 38.3 57.5

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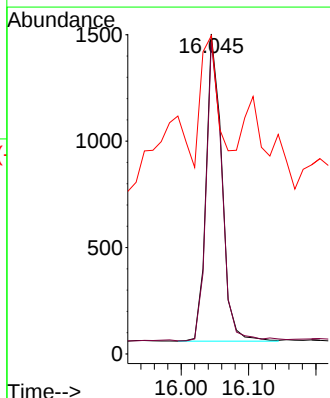
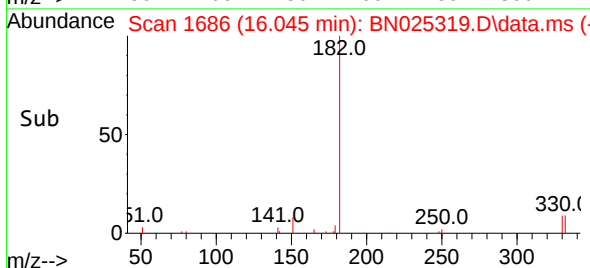
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

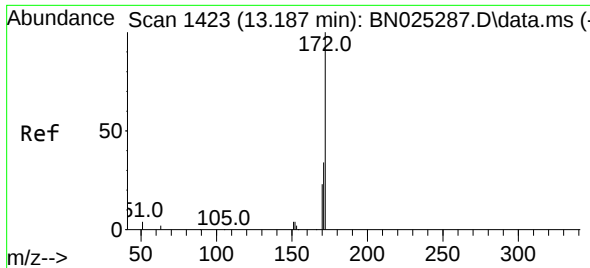


#14
2,4,6-Tribromophenol
Concen: 0.240 ng
RT: 16.045 min Scan# 1686
Delta R.T. -0.025 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08



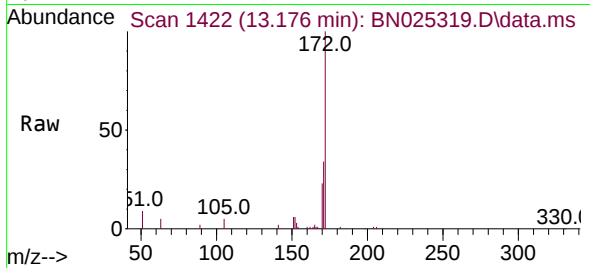
Tgt Ion:330 Resp: 2341
Ion Ratio Lower Upper
330 100
332 97.3 77.4 116.0
141 45.2 28.9 43.3#





#15
2-Fluorobiphenyl
Concen: 0.269 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

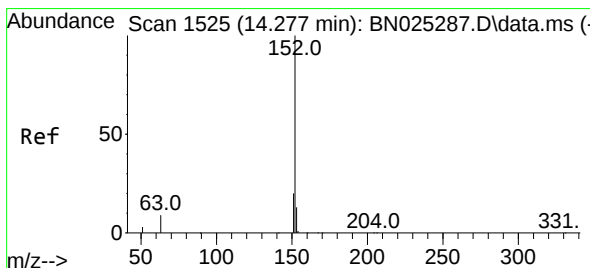
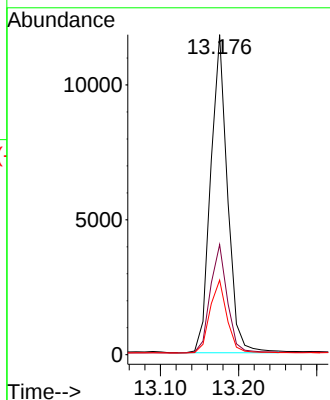
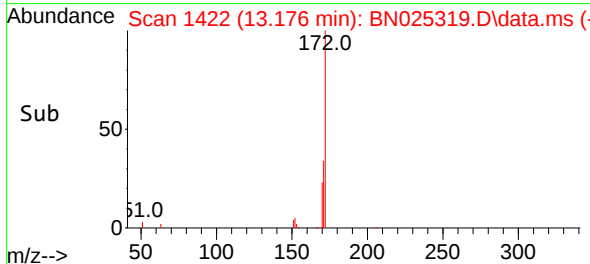
Instrument :
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ZONE-D-0-3-05022023



Tgt Ion:172 Resp: 17620
Ion Ratio Lower Upper
172 100
171 34.4 27.9 41.9
170 23.3 19.0 28.4

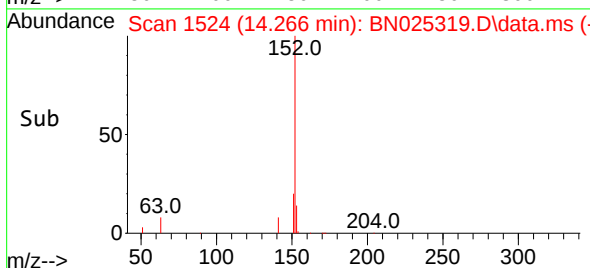
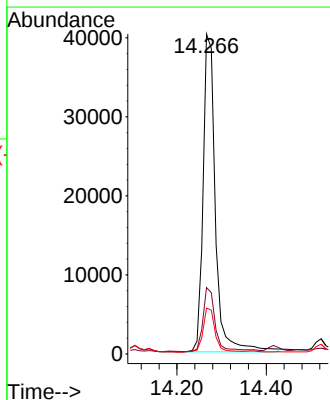
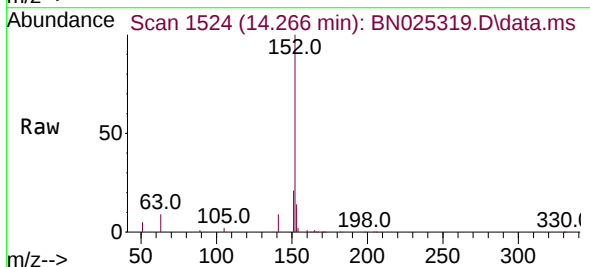
Manual Integrations
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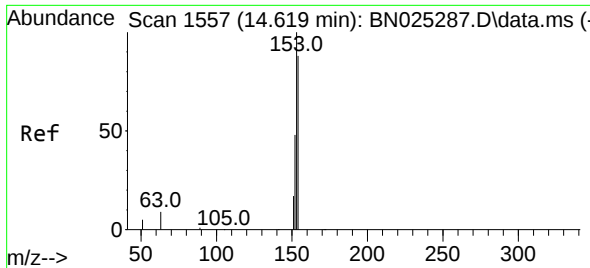
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#16
Acenaphthylene
Concen: 0.899 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

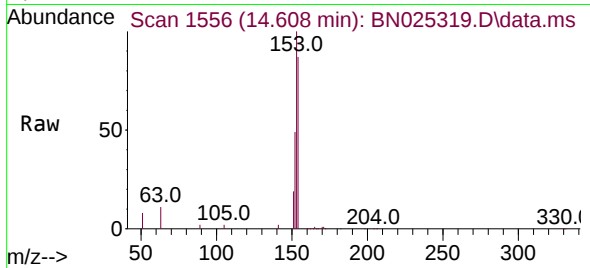
Tgt Ion:152 Resp: 76952
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 13.6 10.3 15.5





#17
Acenaphthene
Concen: 1.487 ng
RT: 14.608 min Scan# 1556
Delta R.T. -0.011 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

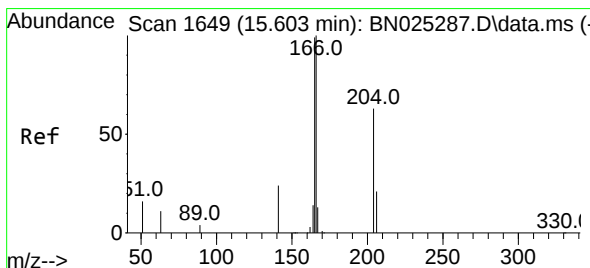
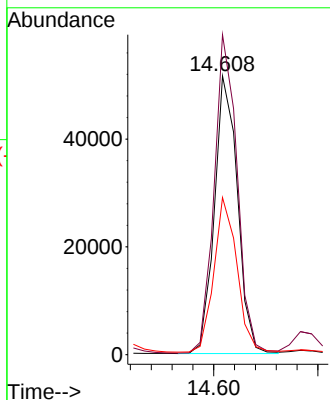
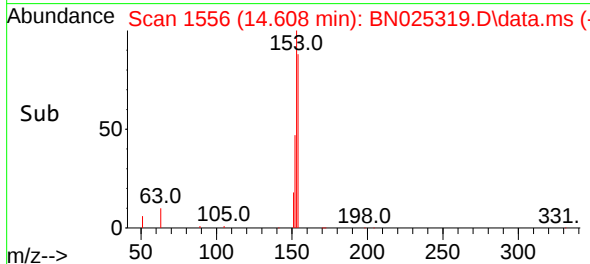
Instrument :
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ZONE-D-0-3-05022023



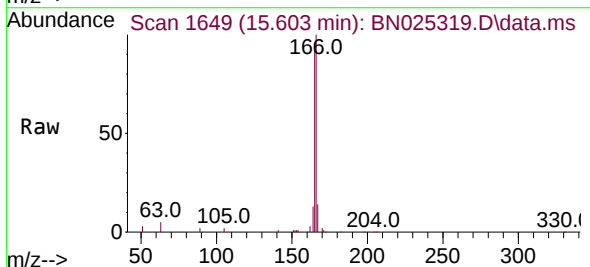
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Ion Ratio Lower Upper
154 100
153 114.2 91.3 136.9
152 55.6 44.7 67.1

Manual Integrations
APPROVED

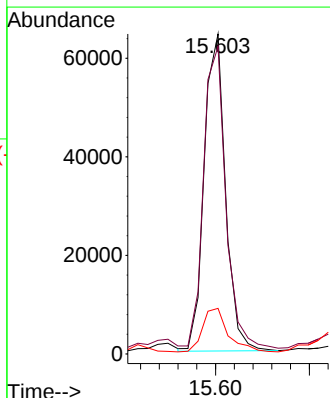
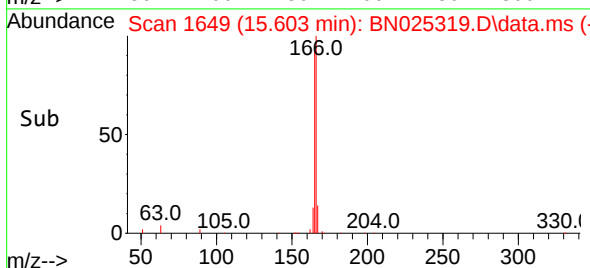
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

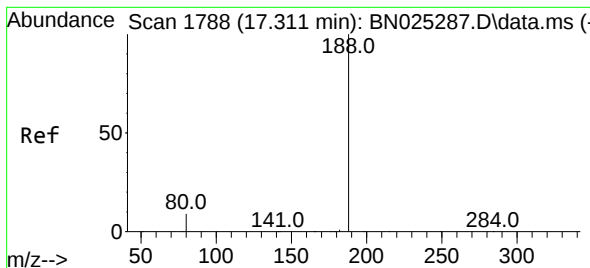


#18
Fluorene
Concen: 1.400 ng
RT: 15.603 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08



Tgt Ion:166 Resp: 102071
Ion Ratio Lower Upper
166 100
165 99.4 79.0 118.4
167 16.5 10.3 15.5#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 1788

Delta R.T. -0.013 min

Lab File: BN025319.D

Acq: 06 May 2023 17:08

Instrument :

BNA_N

ClientSampleId :

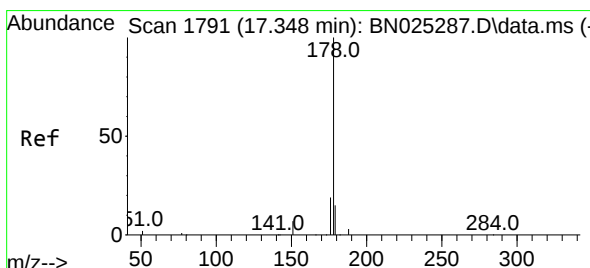
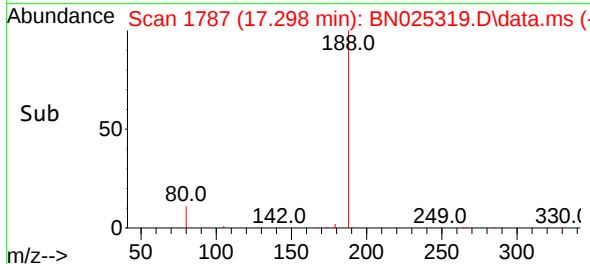
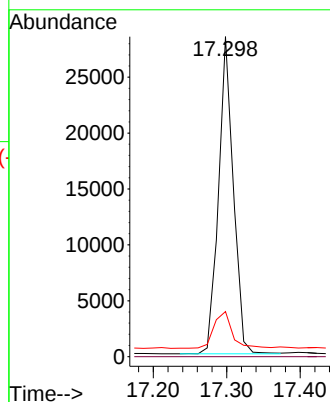
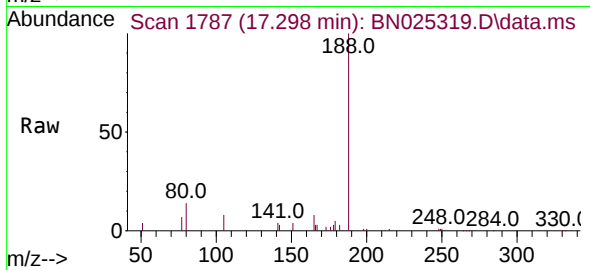
ZONE-D-0-3-05022023

Tgt Ion:188 Resp: 3980
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 14.1 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: 14.900 ng

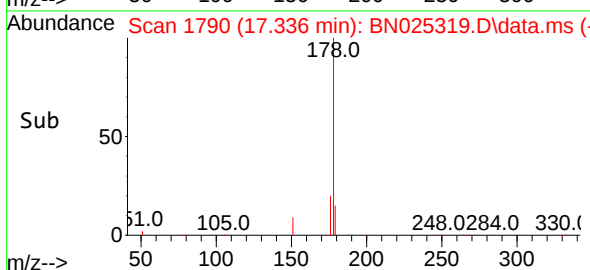
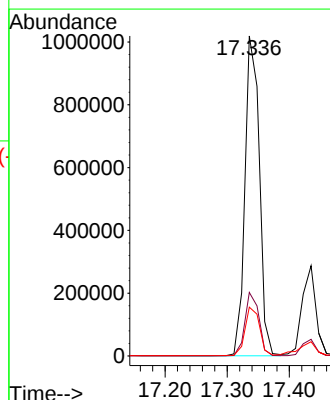
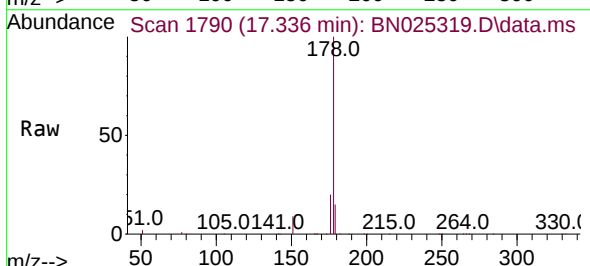
RT: 17.336 min Scan# 1790

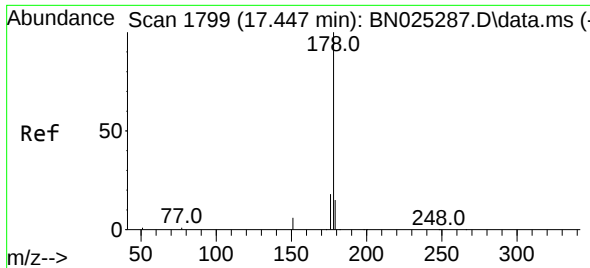
Delta R.T. -0.013 min

Lab File: BN025319.D

Acq: 06 May 2023 17:08

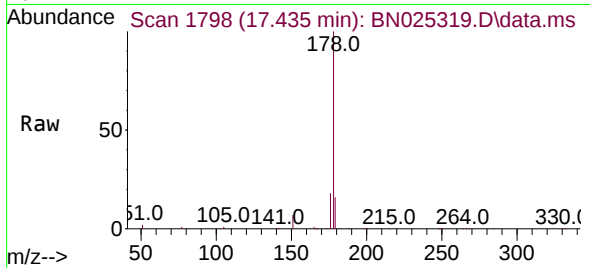
Tgt Ion:178 Resp: 1640911
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.5 23.3
 179 15.4 12.4 18.6





#26
 Anthracene
 Concen: 4.104 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.013 min
 Lab File: BN025319.D
 Acq: 06 May 2023 17:08

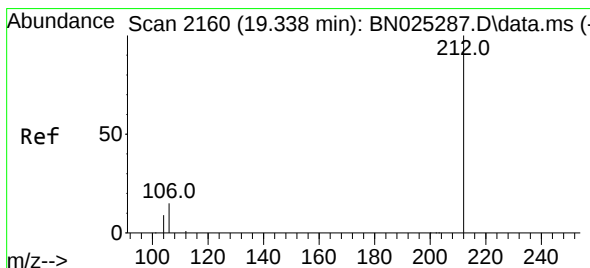
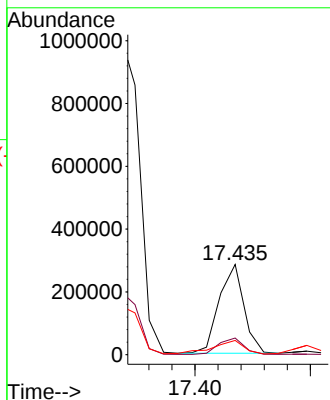
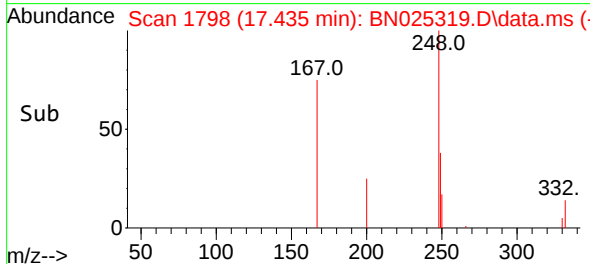
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-0-3-05022023



Tgt Ion:178 Resp: 42339
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 18.0 12.0 18.0

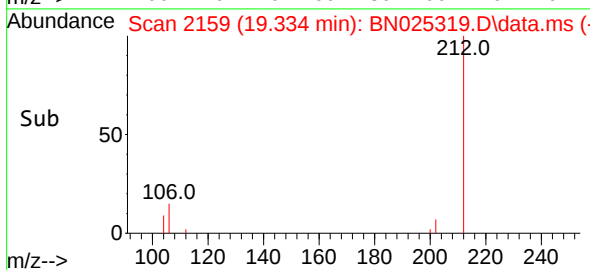
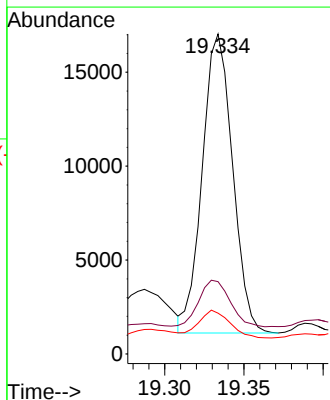
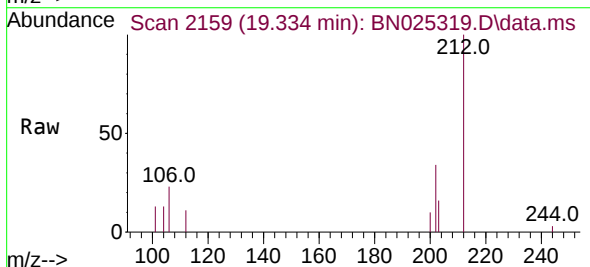
Manual Integrations
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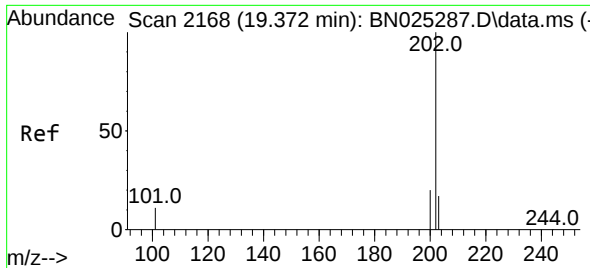
Reviewed By :Christian Giraldo 05/08/2023
 Supervised By :Jagrut Upadhyay 05/08/2023



#27
 Fluoranthene-d10
 Concen: 0.215 ng
 RT: 19.334 min Scan# 2159
 Delta R.T. -0.004 min
 Lab File: BN025319.D
 Acq: 06 May 2023 17:08

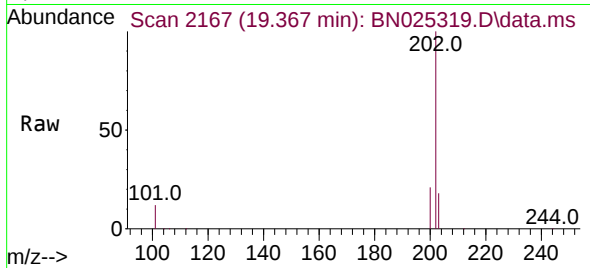
Tgt Ion:212 Resp: 21182
 Ion Ratio Lower Upper
 212 100
 106 15.8 12.6 19.0
 104 9.8 7.0 10.6





#28
Fluoranthene
Concen: 22.274 ng
RT: 19.367 min Scan# 2167
Delta R.T. -0.004 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

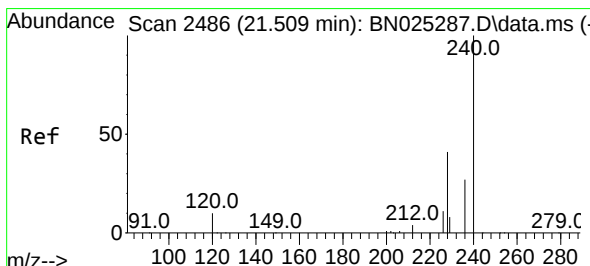
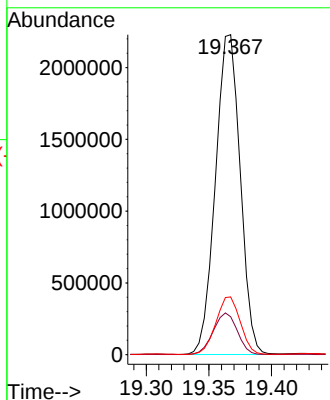
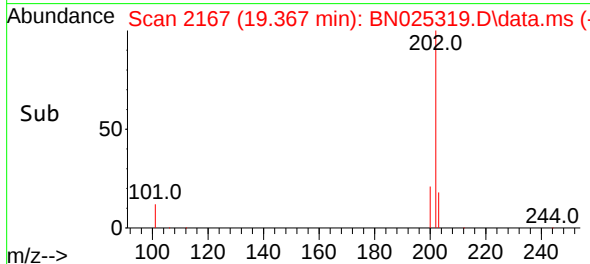
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:202 Resp: 306508
Ion Ratio Lower Upper
202 100
101 12.6 9.8 14.8
203 17.7 13.5 20.3

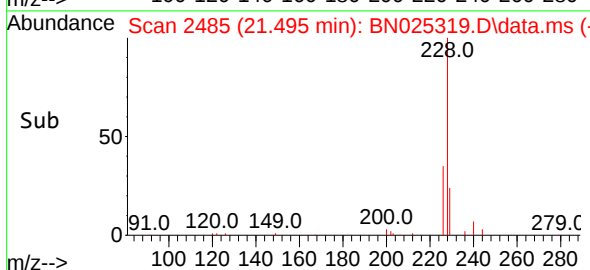
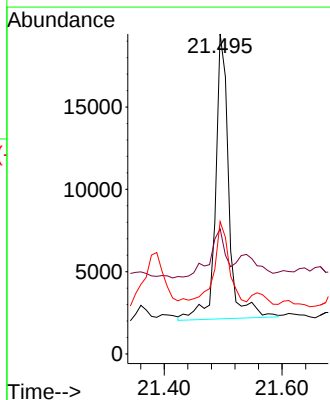
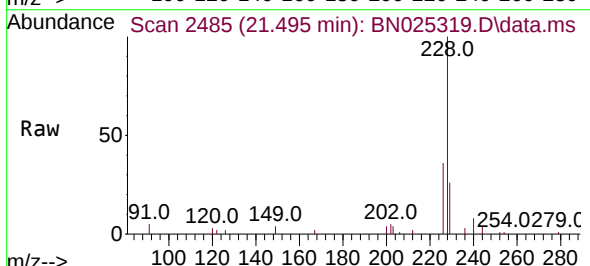
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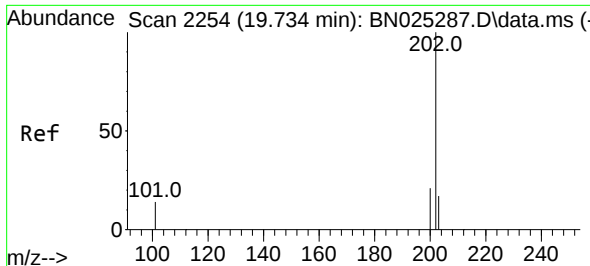
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.495 min Scan# 2485
Delta R.T. -0.014 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

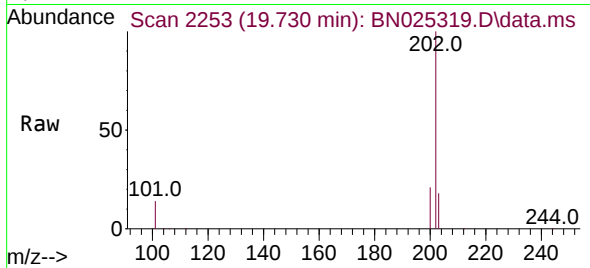
Tgt Ion:240 Resp: 27038
Ion Ratio Lower Upper
240 100
120 39.1 10.3 15.5#
236 41.4 22.3 33.5#





#30
Pyrene
Concen: 27.916 ng
RT: 19.730 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

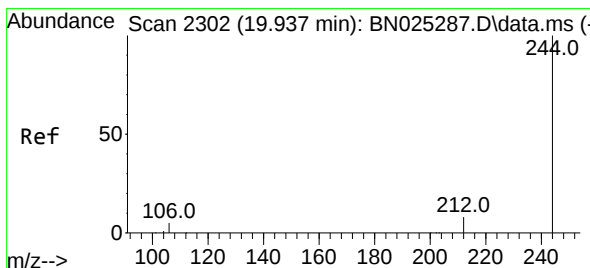
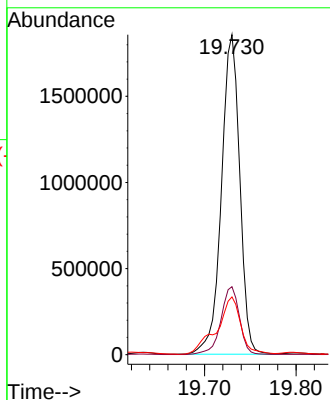
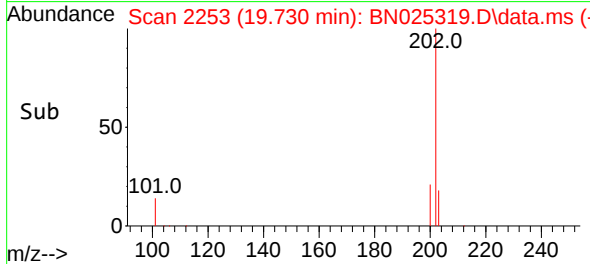
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:202 Resp: 2580369
Ion Ratio Lower Upper
202 100
200 21.4 16.8 25.2
203 23.3 14.4 21.6

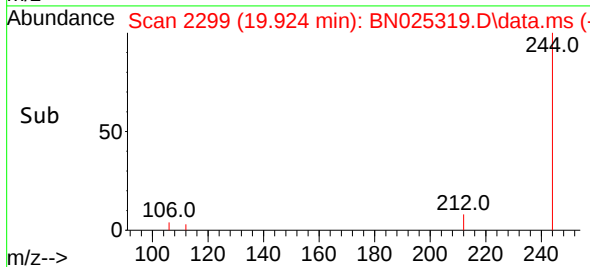
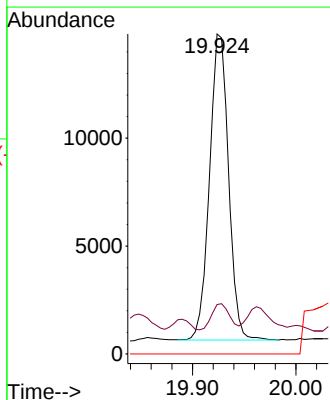
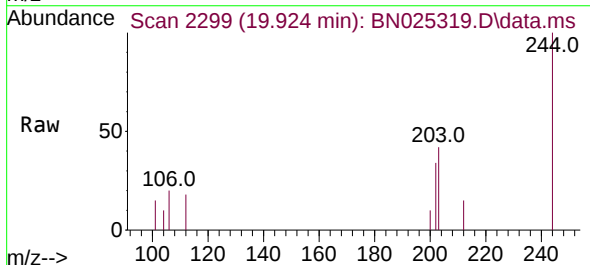
Manual Integrations
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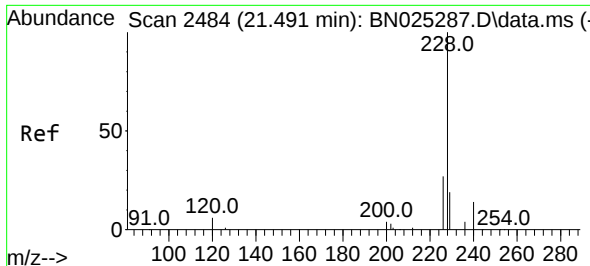
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.924 min Scan# 2299
Delta R.T. -0.013 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

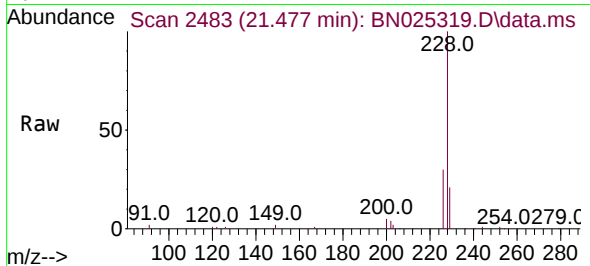
Tgt Ion:244 Resp: 18138
Ion Ratio Lower Upper
244 100
212 15.5 7.1 10.7#
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 13.300 ng
RT: 21.477 min Scan# 2483
Delta R.T. -0.014 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

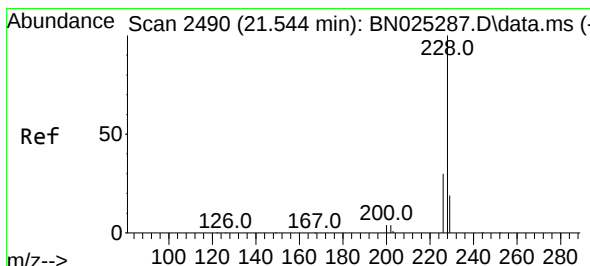
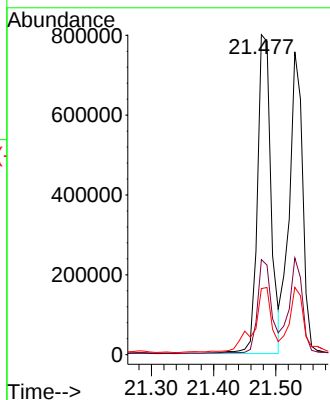
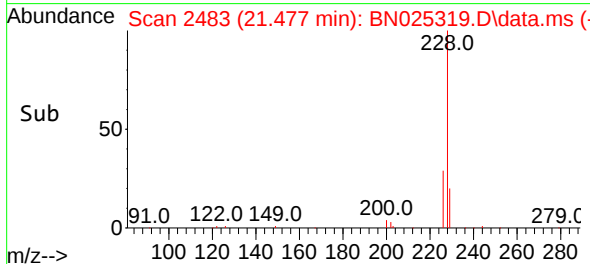
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:228 Resp: 1215484
Ion Ratio Lower Upper
228 100
226 29.7 22.5 33.7
229 20.7 16.2 24.2

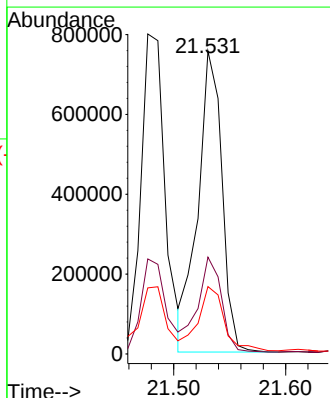
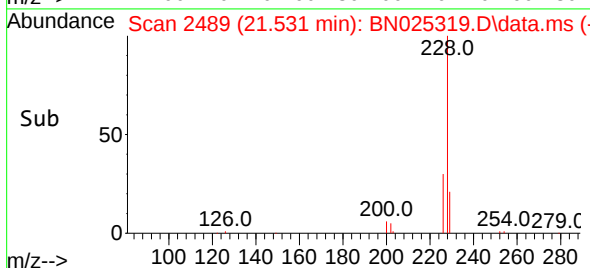
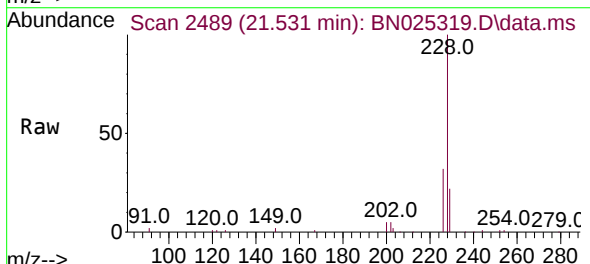
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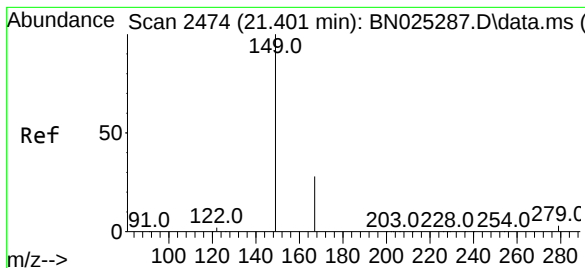
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#33
Chrysene
Concen: 12.357 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.014 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

Tgt Ion:228 Resp: 1124118
Ion Ratio Lower Upper
228 100
226 31.9 24.6 36.8
229 22.2 16.2 24.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 1.258 ng

RT: 21.396 min Scan# 2474

Delta R.T. -0.005 min

Lab File: BN025319.D

Acq: 06 May 2023 17:08

Instrument :

BNA_N

ClientSampleId :

ZONE-D-0-3-05022023

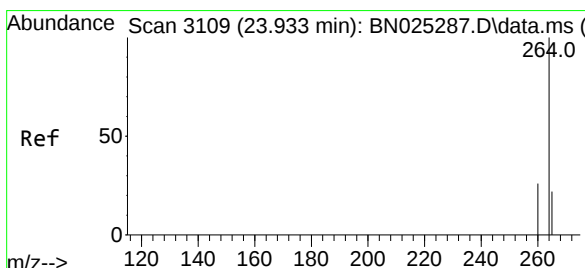
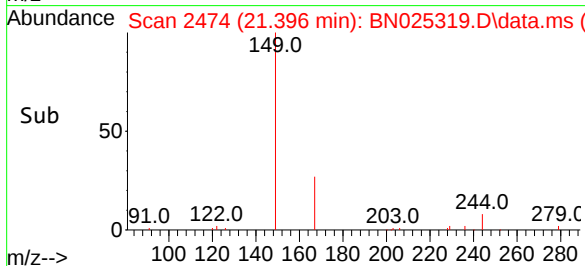
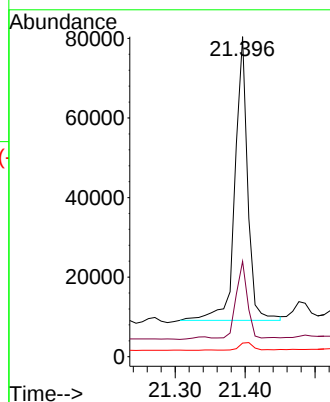
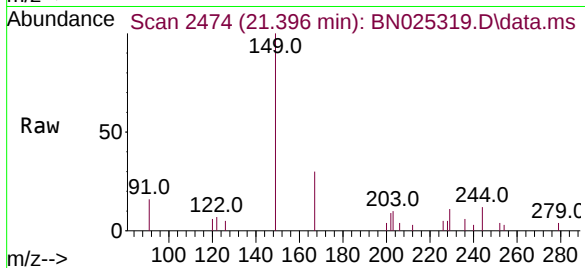
Tgt Ion:149 Resp: 9023

Ion	Ratio	Lower	Upper
149	100		
167	23.8	22.2	33.4
279	2.9	2.6	4.0

Manual Integrations

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



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.940 min Scan# 3111

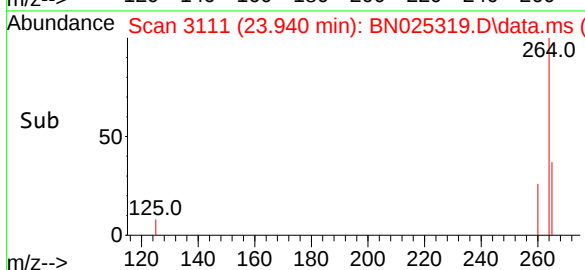
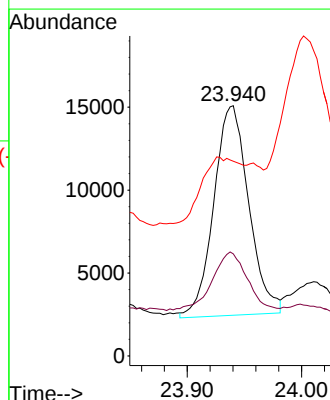
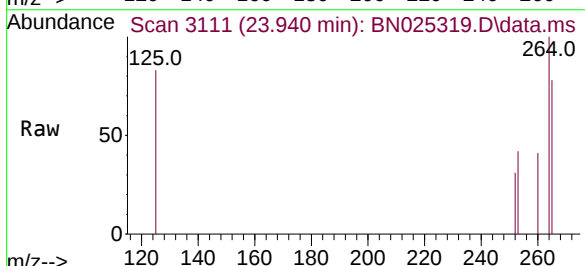
Delta R.T. 0.007 min

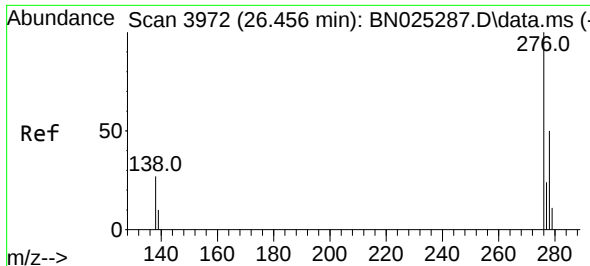
Lab File: BN025319.D

Acq: 06 May 2023 17:08

Tgt Ion:264 Resp: 26866

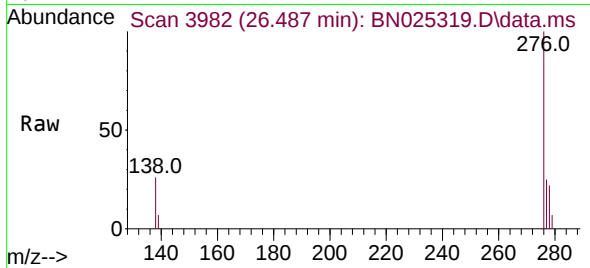
Ion	Ratio	Lower	Upper
264	100		
260	40.8	21.5	32.3#
265	77.8	46.2	69.4#





#36
Indeno(1,2,3-cd)pyrene
Concen: 5.792 ng
RT: 26.487 min Scan# 3972
Delta R.T. 0.030 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

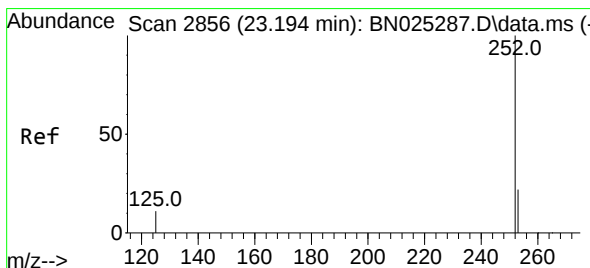
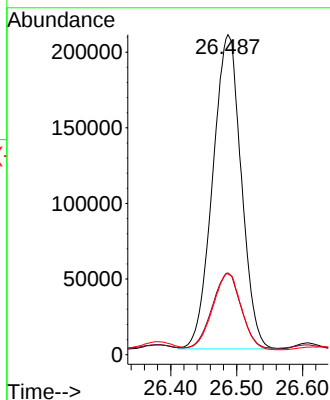
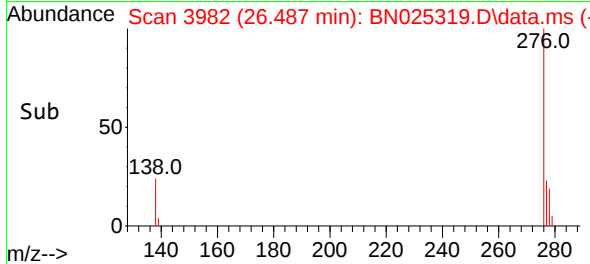
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



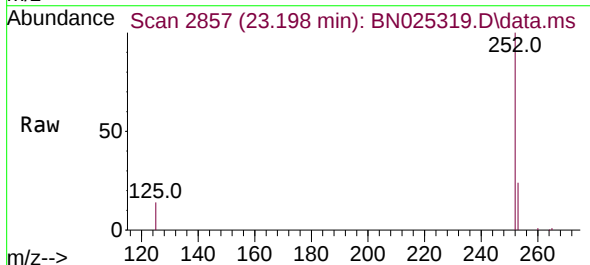
Tgt Ion:276 Resp: 623769
Ion Ratio Lower Upper
276 100
138 24.0 22.5 33.7
277 24.5 19.8 29.6

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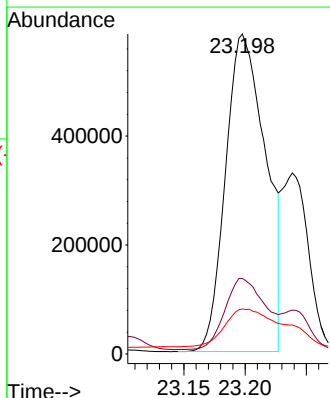
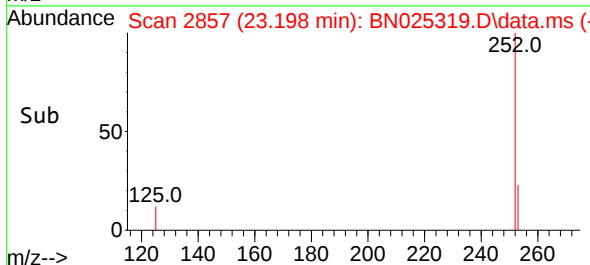
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023

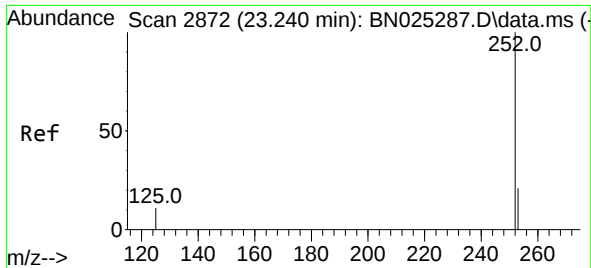


#37
Benzo(b)fluoranthene
Concen: 15.630 ng
RT: 23.198 min Scan# 2857
Delta R.T. 0.004 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08



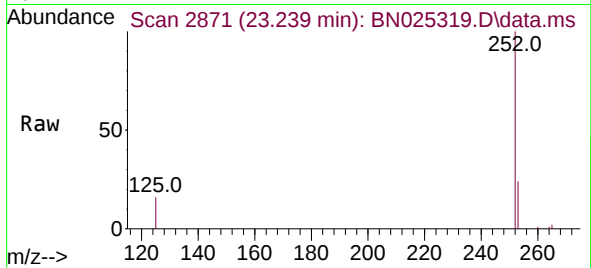
Tgt Ion:252 Resp: 1331120
Ion Ratio Lower Upper
252 100
253 23.6 20.8 31.2
125 14.0 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 5.532 ng m
RT: 23.239 min Scan# 2872
Delta R.T. -0.002 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

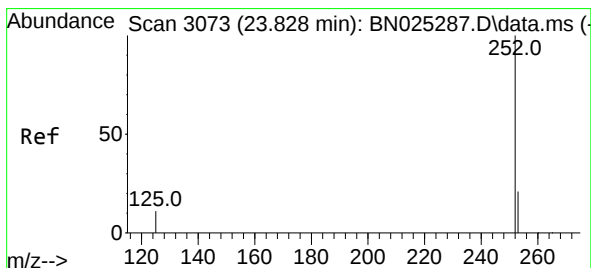
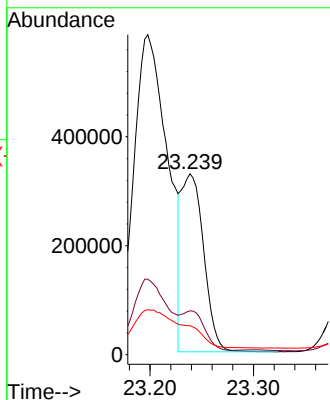
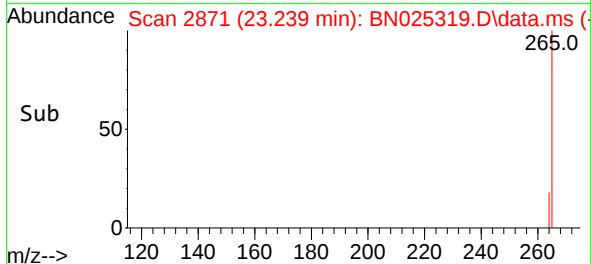
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:252 Resp: 49313
Ion Ratio Lower Upper
252 100
253 24.3 20.6 30.8
125 16.0 13.1 19.7

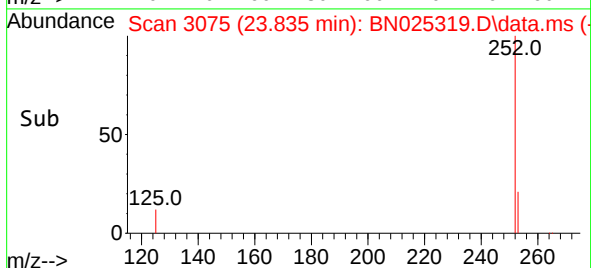
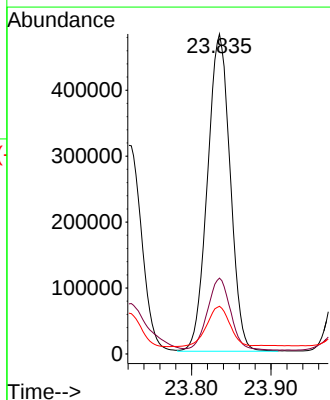
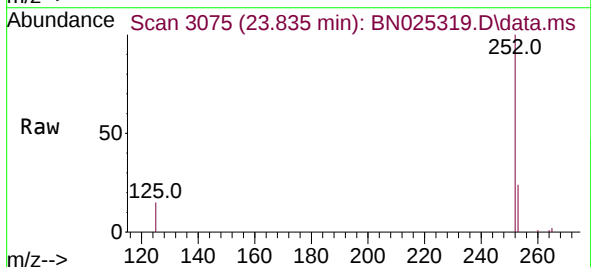
Manual Integrations
APPROVED

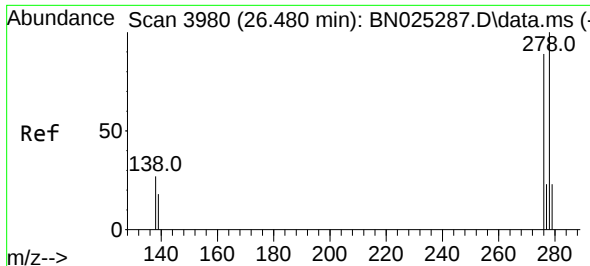
Reviewed By :Christian Giraldo 05/08/2023
Supervised By :Jagrut Upadhyay 05/08/2023



#39
Benzo(a)pyrene
Concen: 10.953 ng m
RT: 23.835 min Scan# 3075
Delta R.T. 0.007 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

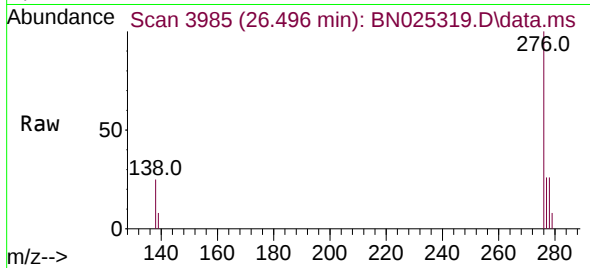
Tgt Ion:252 Resp: 955602
Ion Ratio Lower Upper
252 100
253 23.7 21.4 32.0
125 14.9 15.4 23.2#





#40
Dibenzo(a,h)anthracene
Concen: 1.861 ng
RT: 26.496 min Scan# 3985
Delta R.T. 0.016 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

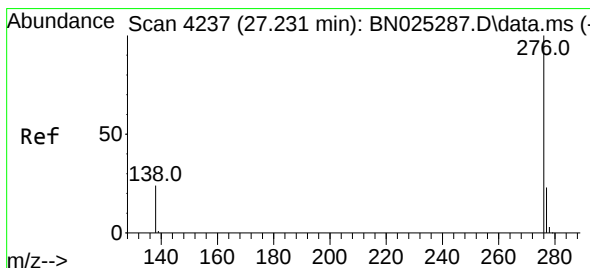
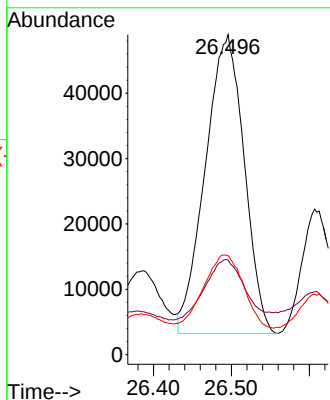
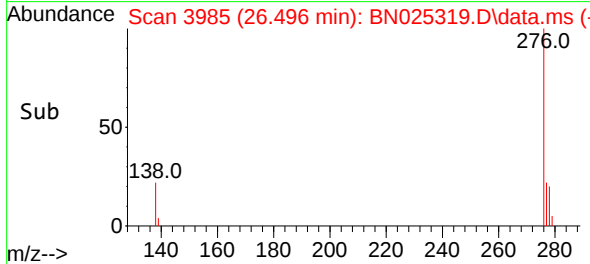
Instrument :
BNA_N
ClientSampleId :
ZONE-D-0-3-05022023



Tgt Ion:278 Resp: 158280
Ion Ratio Lower Upper
278 100
139 29.6 17.6 26.4
279 30.9 21.6 32.4

Manual Integrations
APPROVED

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



#41
Benzo(g,h,i)perylene
Concen: 6.404 ng
RT: 27.273 min Scan# 4251
Delta R.T. 0.042 min
Lab File: BN025319.D
Acq: 06 May 2023 17:08

Tgt Ion:276 Resp: 598168
Ion Ratio Lower Upper
276 100
277 24.8 20.1 30.1
138 26.2 21.0 31.6

