

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP020824\
 Data File : BP019622.D
 Acq On : 08 Feb 2024 22:50
 Operator : MA/JU
 Sample : P1387-01 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 HD-01-020724

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/09/2024
 Supervised By :mohammad ahmed 02/09/2024

Quant Time: Feb 09 00:44:38 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 01 00:51:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.910	152	87654	20.000	ng	0.00
21) Naphthalene-d8	10.710	136	336241	20.000	ng	0.00
39) Acenaphthene-d10	14.545	164	212578	20.000	ng	0.00
64) Phenanthrene-d10	17.298	188	448669	20.000	ng	0.00
76) Chrysene-d12	21.392	240	403976	20.000	ng	0.00
86) Perylene-d12	23.815	264	469948	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	106841	19.648	ng	0.00
7) Phenol-d6	7.075	99	141274	19.268	ng	-0.01
23) Nitrobenzene-d5	9.075	82	92373	11.904	ng	-0.01
42) 2,4,6-Tribromophenol	16.033	330	65204	21.008	ng	0.00
45) 2-Fluorobiphenyl	13.169	172	220078	12.798	ng	-0.01
79) Terphenyl-d14	19.863	244	332981	13.555	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.757	128	267497	14.505	ng	99
37) 2-Methylnaphthalene	12.369	142	186212	14.591	ng	99
38) 1-Methylnaphthalene	12.586	142	192340	15.336	ng	99
49) Acenaphthylene	14.269	152	304955	15.607	ng	99
52) Acenaphthene	14.604	154	135662	11.186	ng	98
55) Dibenzofuran	14.945	168	165816	8.395	ng	# 95
58) Fluorene	15.592	166	355265	22.582	ng	100
71) Phenanthrene	17.345	178	1980483	83.876	ng	99
72) Anthracene	17.433	178	676483	28.720	ng	99
73) Carbazole	17.710	167	157501	7.361	ng	99
75) Fluoranthene	19.316	202	2184520	75.734	ng	99
78) Pyrene	19.663	202	2198067	77.096	ng	99
81) Benzo(a)anthracene	21.380	228	1031915m	36.288	ng	
83) Chrysene	21.433	228	836648	30.989	ng	97
87) Indeno(1,2,3-cd)pyrene	26.345	276	507201	14.100	ng	97
88) Benzo(b)fluoranthene	23.080	252	1105105	37.311	ng	96
89) Benzo(k)fluoranthene	23.127	252	308944m	10.920	ng	
90) Benzo(a)pyrene	23.709	252	879325	33.366	ng	96
91) Dibenzo(a,h)anthracene	26.362	278	143884	4.863	ng	# 82
92) Benzo(g,h,i)perylene	27.127	276	489050	16.293	ng	97

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

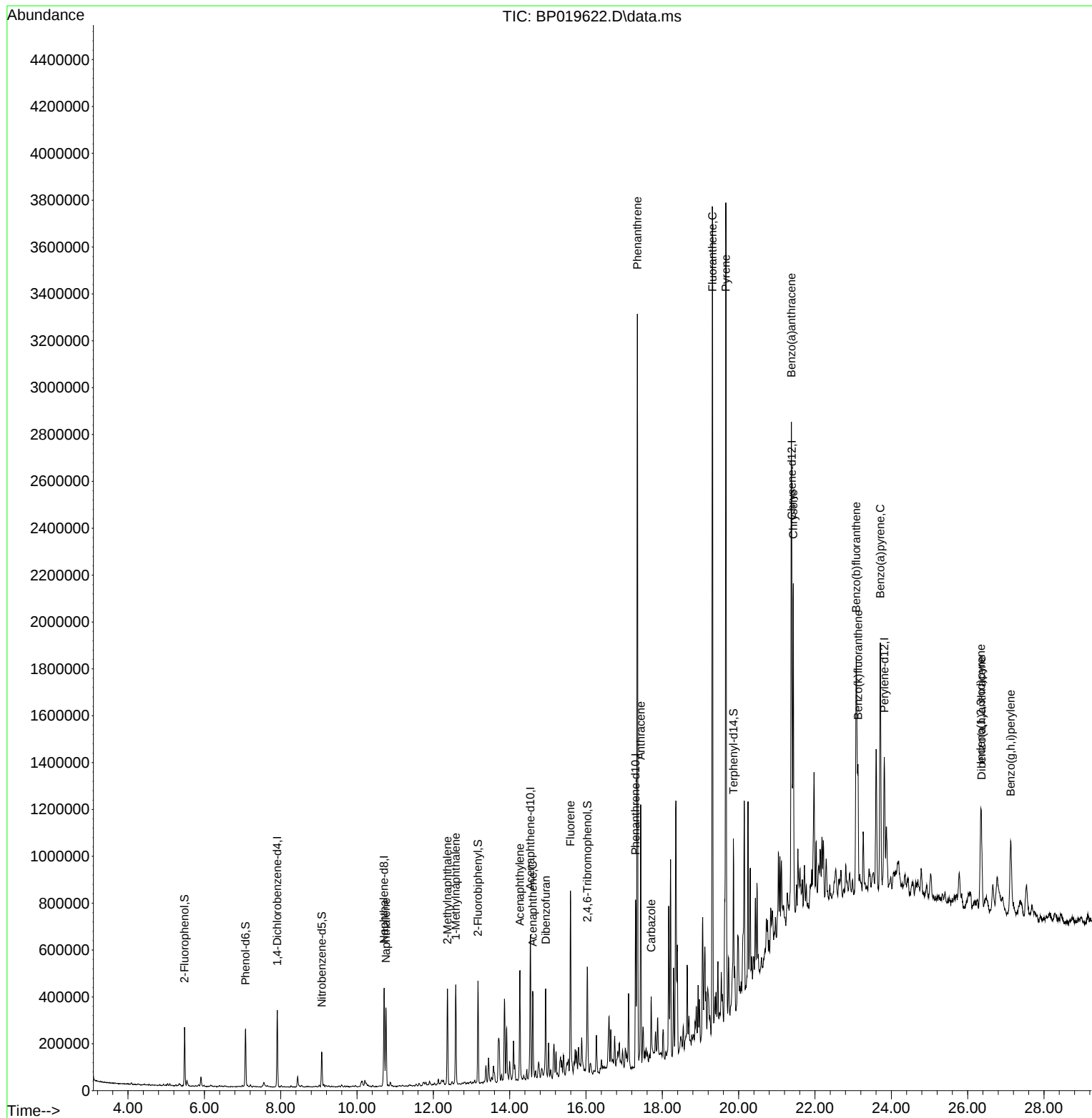
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP020824\
Data File : BP019622.D
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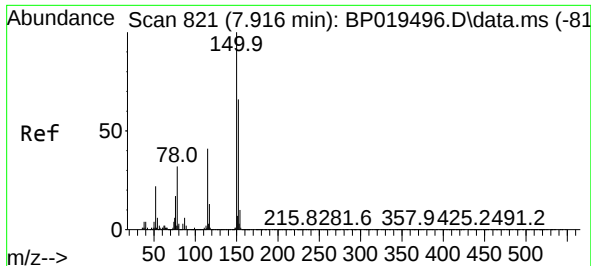
Instrument :
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HD-01-020724

Quant Time: Feb 09 00:44:38 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 01 00:51:48 2024
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Supervised By :mohammad ahmed 02/09/2024





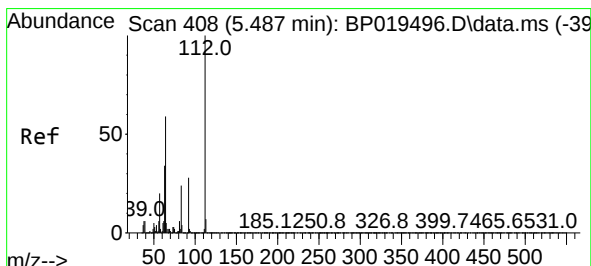
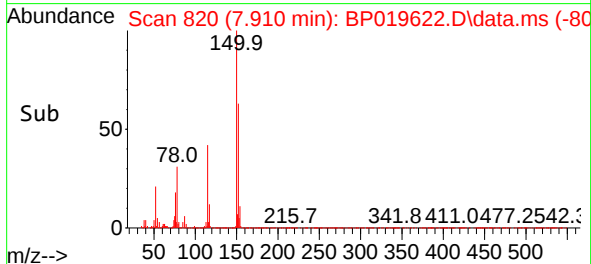
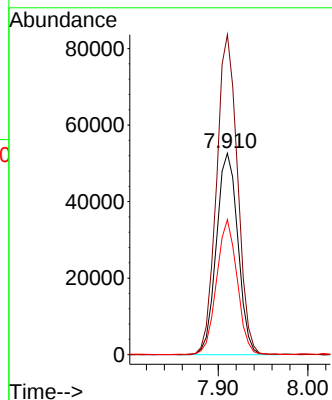
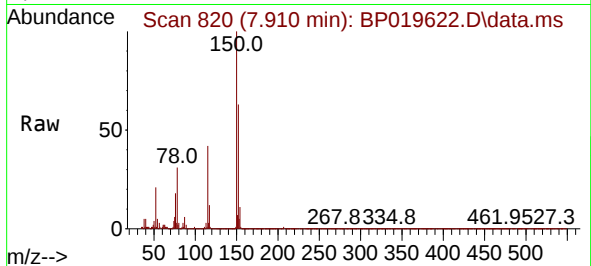
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.910 min Scan# 81
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :
BNA_P
ClientSampleId :
HD-01-020724

Tgt Ion:152 Resp: 87654
Ion Ratio Lower Upper
152 100
150 158.8 121.8 182.8
115 67.0 49.9 74.9

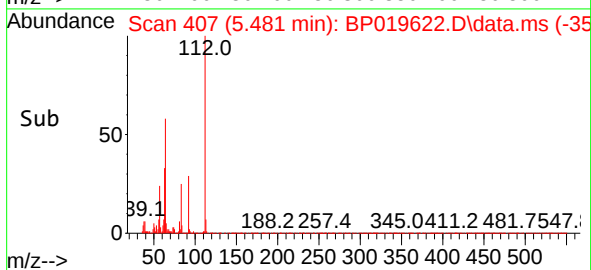
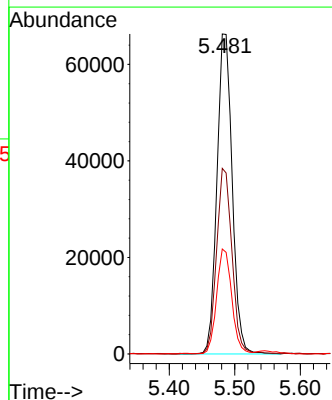
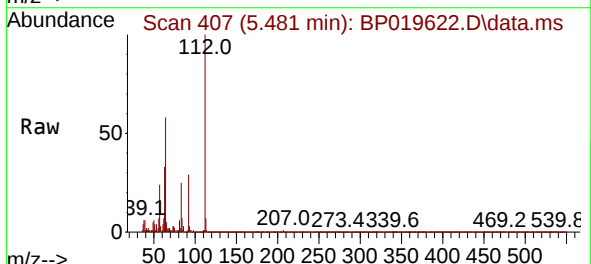
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#5
2-Fluorophenol
Concen: 19.648 ng
RT: 5.481 min Scan# 407
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

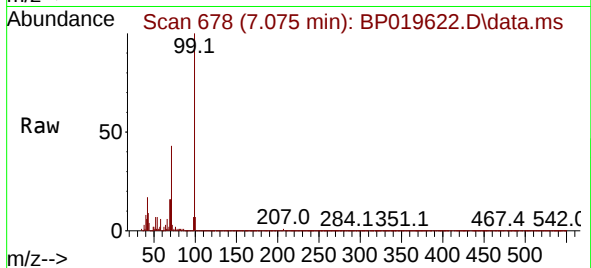
Tgt Ion:112 Resp: 106841
Ion Ratio Lower Upper
112 100
64 58.0 47.4 71.0
63 32.8 27.0 40.6





#7
Phenol-d6
Concen: 19.268 ng
RT: 7.075 min Scan# 61
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

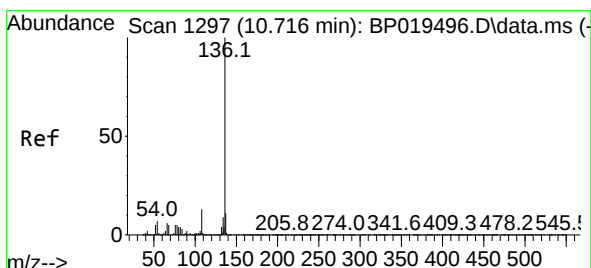
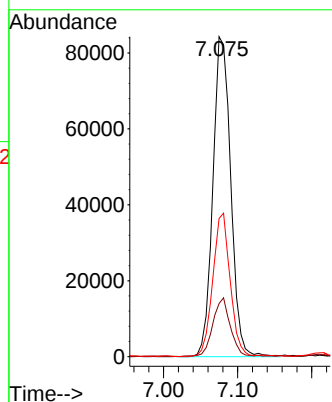
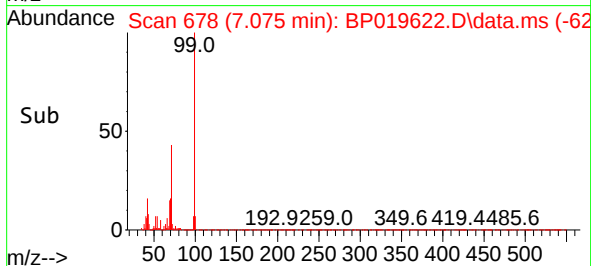
Instrument :
BNA_P
ClientSampleId :
HD-01-020724



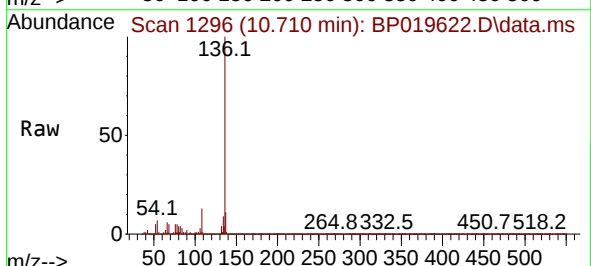
Tgt Ion: 99 Resp: 141274
Ion Ratio Lower Upper
99 100
42 16.6 14.7 22.1
71 43.2 34.8 52.2

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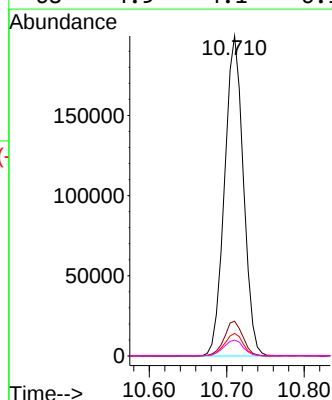
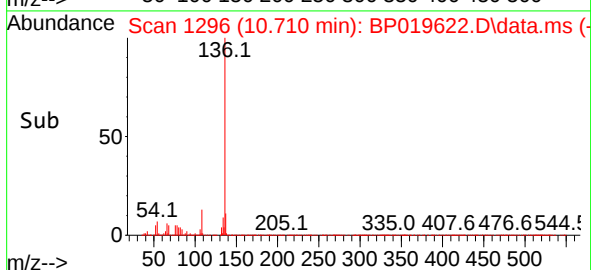
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.710 min Scan# 1296
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50



Tgt Ion:136 Resp: 336241
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.1 5.3 7.9
68 4.9 4.1 6.1





#23
Nitrobenzene-d5
Concen: 11.904 ng
RT: 9.075 min Scan# 1018
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

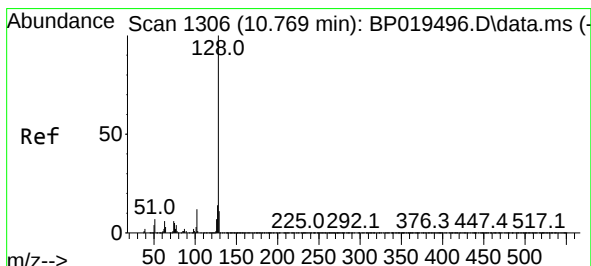
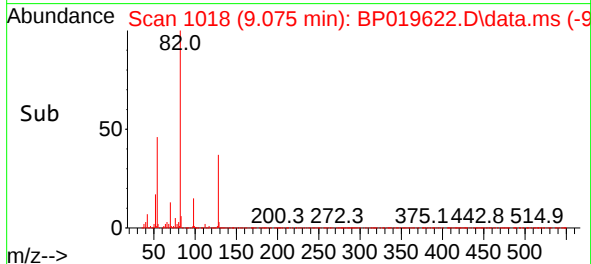
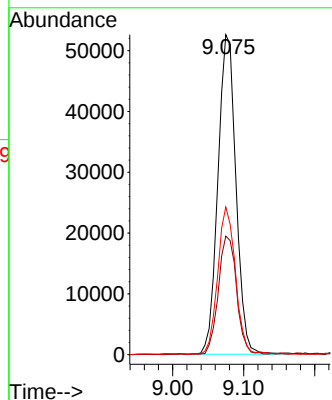
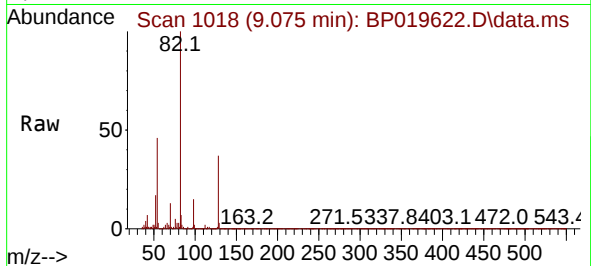
ClientSampleId :

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Tgt Ion: 82 Resp: 9237
Ion Ratio Lower Upper
82 100
128 37.1 29.7 44.5
54 46.2 36.8 55.2

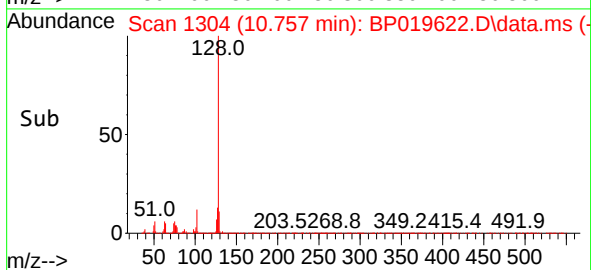
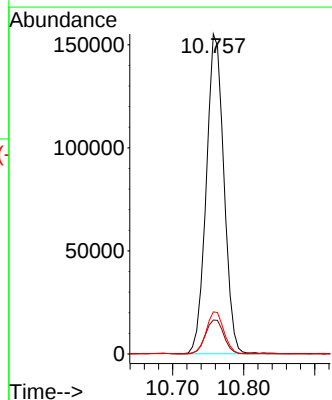
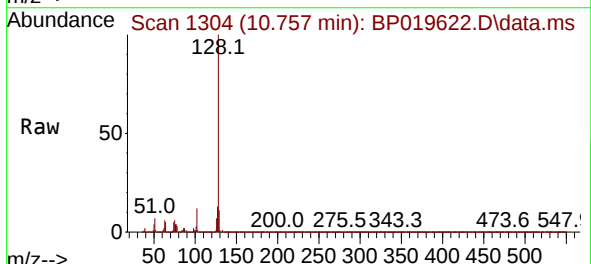
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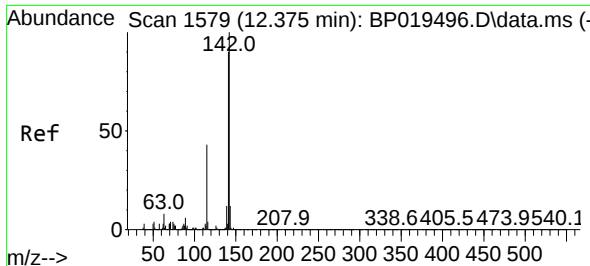
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#31
Naphthalene
Concen: 14.505 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:128 Resp: 267497
Ion Ratio Lower Upper
128 100
129 10.6 8.6 13.0
127 13.1 10.8 16.2





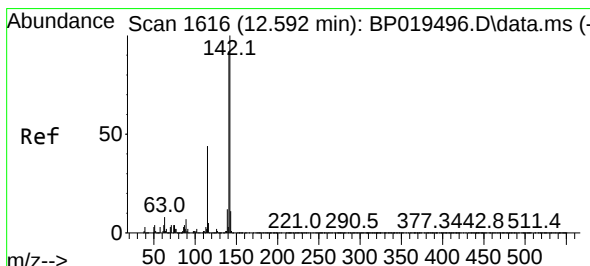
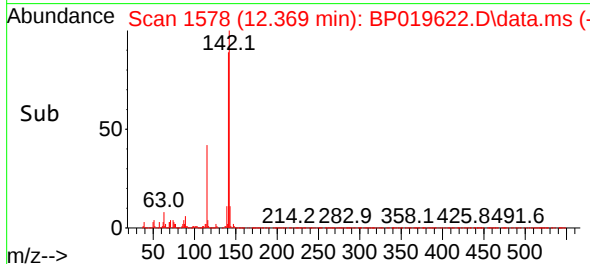
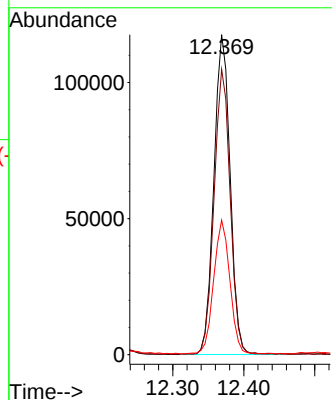
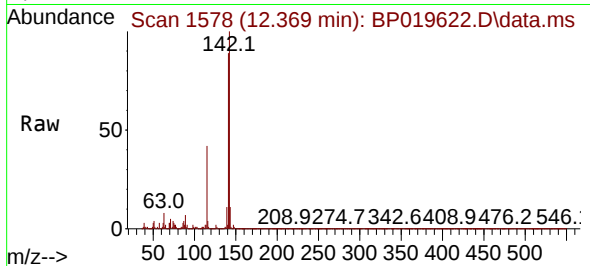
#37
2-Methylnaphthalene
Concen: 14.591 ng
RT: 12.369 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :
BNA_P
ClientSampleId :
HD-01-020724

Tgt Ion:142 Resp: 18621
Ion Ratio Lower Upper
142 100
141 89.2 72.2 108.4
115 42.1 34.2 51.2

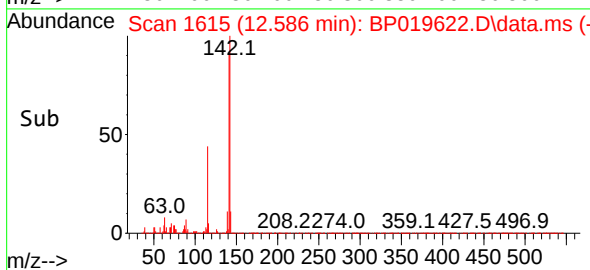
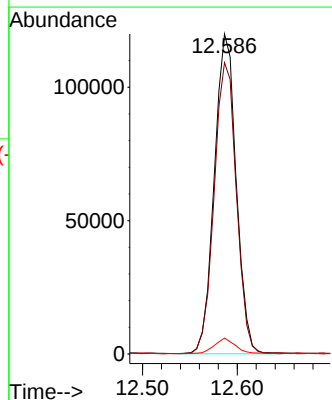
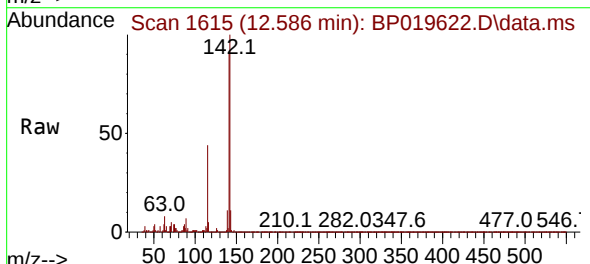
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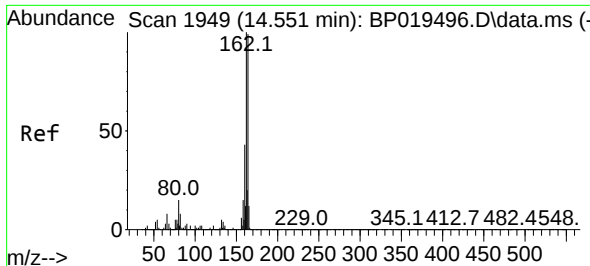
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#38
1-Methylnaphthalene
Concen: 15.336 ng
RT: 12.586 min Scan# 1615
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

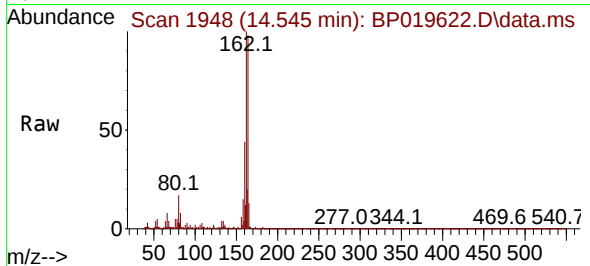
Tgt Ion:142 Resp: 192340
Ion Ratio Lower Upper
142 100
141 91.1 74.0 111.0
116 4.9 3.7 5.5





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

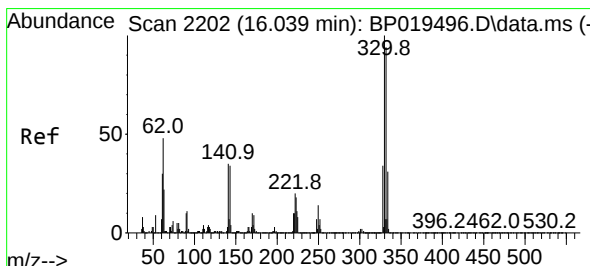
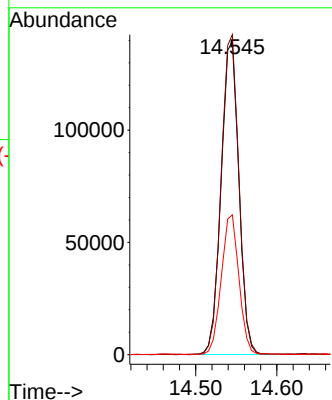
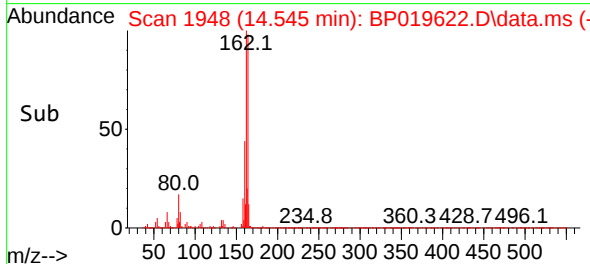
Instrument :
BNA_P
ClientSampleId :
HD-01-020724



Tgt Ion:164 Resp: 212578
Ion Ratio Lower Upper
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162 102.2 81.2 121.8
160 44.7 35.1 52.7

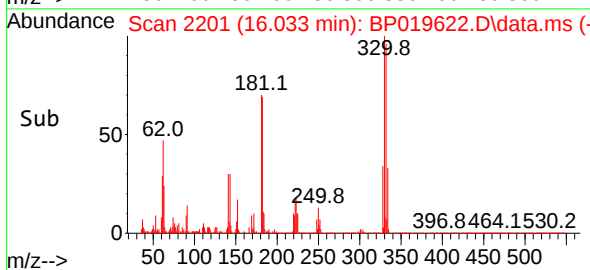
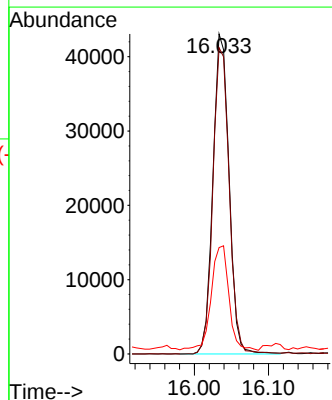
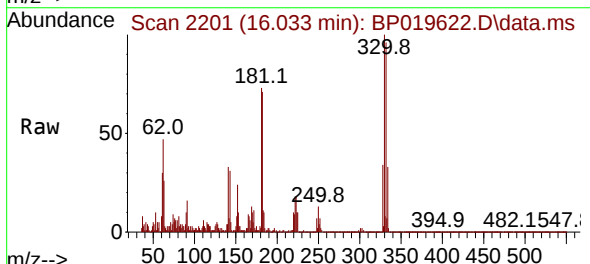
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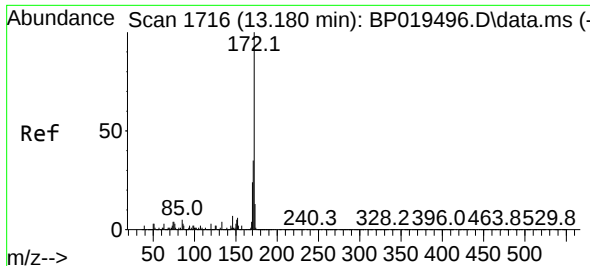
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#42
2,4,6-Tribromophenol
Concen: 21.008 ng
RT: 16.033 min Scan# 2201
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:330 Resp: 65204
Ion Ratio Lower Upper
330 100
332 96.9 77.2 115.8
141 35.6 27.0 40.4





#45
2-Fluorobiphenyl
Concen: 12.798 ng
RT: 13.169 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

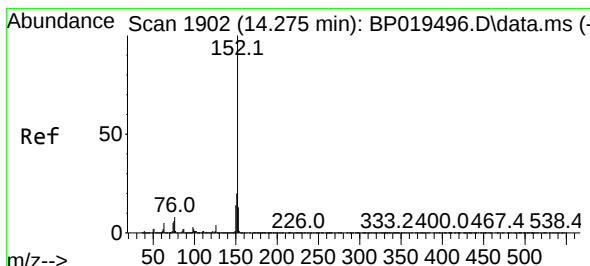
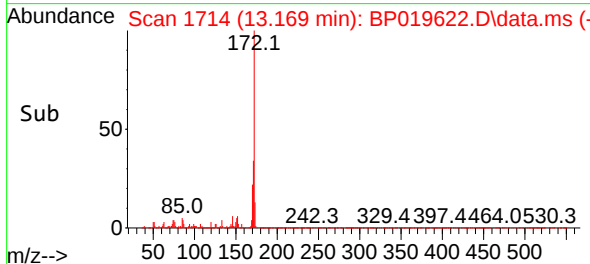
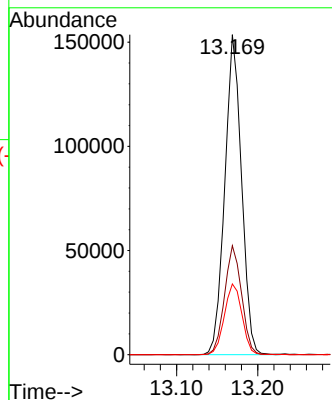
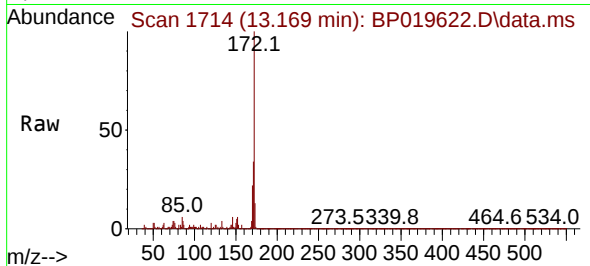
HD-01-020724

Tgt Ion:172 Resp: 220078
Ion Ratio Lower Upper
172 100
171 34.0 28.2 42.4
170 22.1 18.9 28.3

Manual Integrations

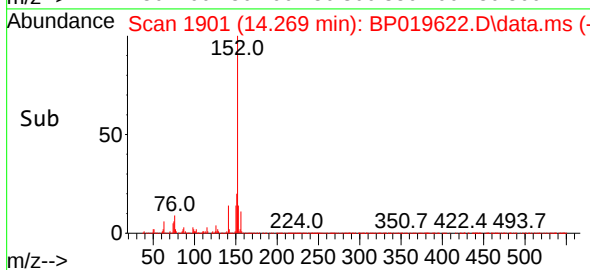
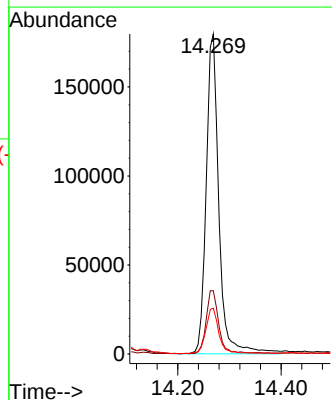
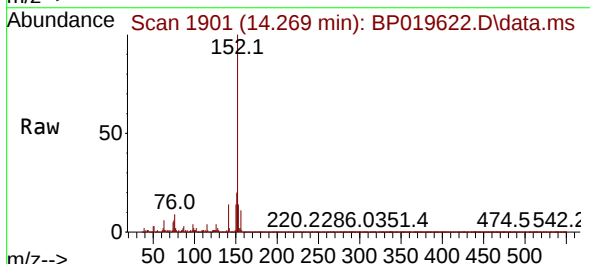
APPROVED

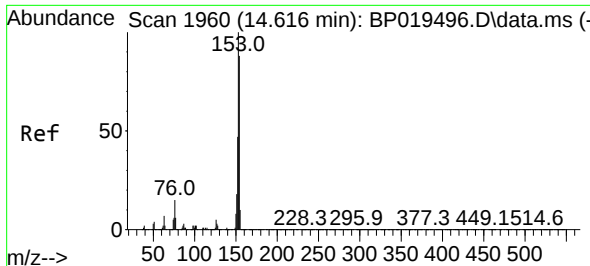
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#49
Acenaphthylene
Concen: 15.607 ng
RT: 14.269 min Scan# 1901
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

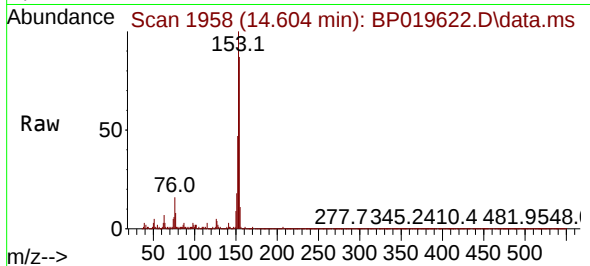
Tgt Ion:152 Resp: 304955
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 14.3 10.6 15.8





#52
Acenaphthene
Concen: 11.186 ng
RT: 14.604 min Scan# 1958
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

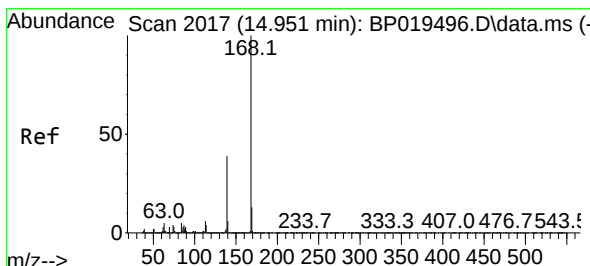
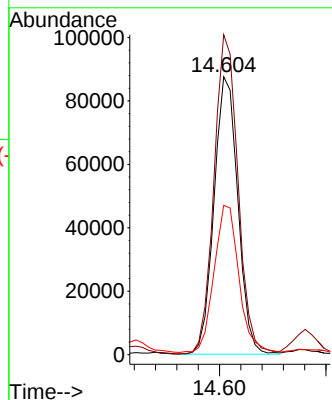
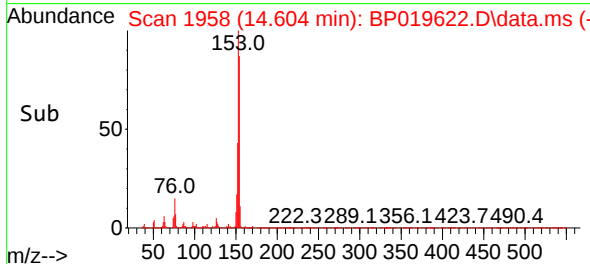
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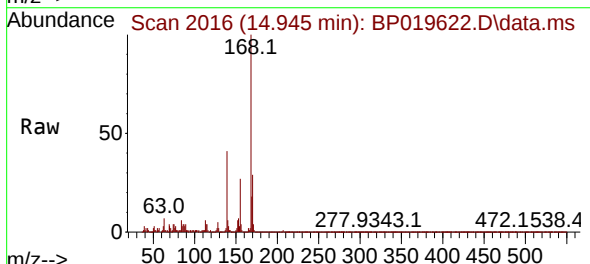
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Ion Ratio Lower Upper
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153 115.2 90.5 135.7
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Manual Integrations
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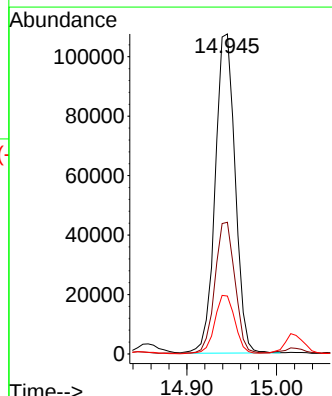
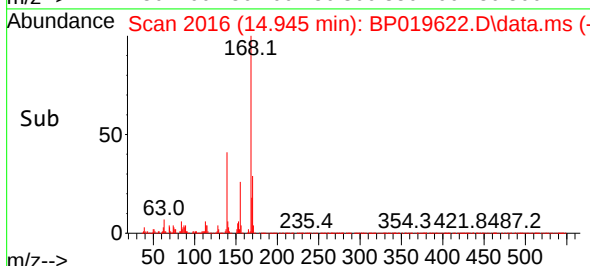
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024

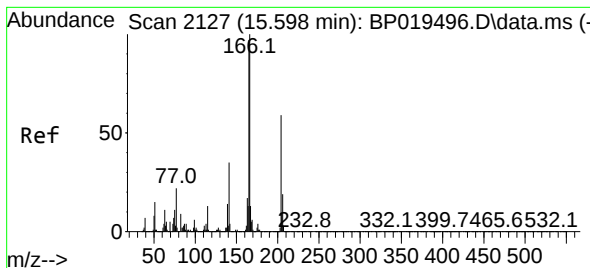


#55
Dibenzofuran
Concen: 8.395 ng
RT: 14.945 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50



Tgt Ion:168 Resp: 165816
Ion Ratio Lower Upper
168 100
139 41.1 31.5 47.3
169 18.1 10.3 15.5





#58

Fluorene

Concen: 22.582 ng

RT: 15.592 min Scan# 2127

Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

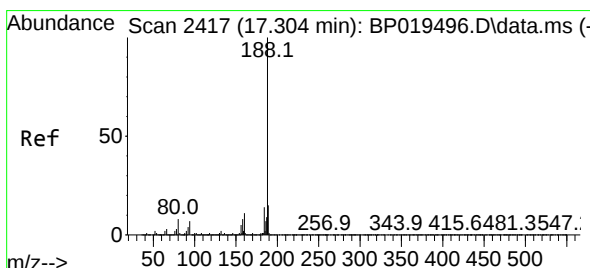
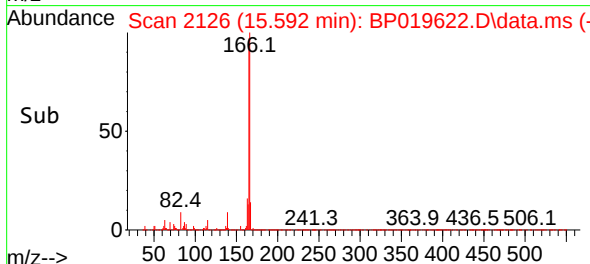
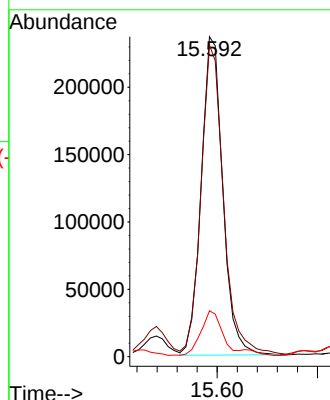
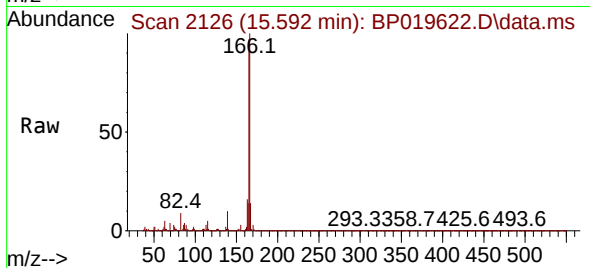
HD-01-020724

Tgt Ion:	166	Resp:	35526
Ion Ratio	Lower	Upper	
166	100		
165	97.4	77.8	116.8
167	14.4	10.7	16.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

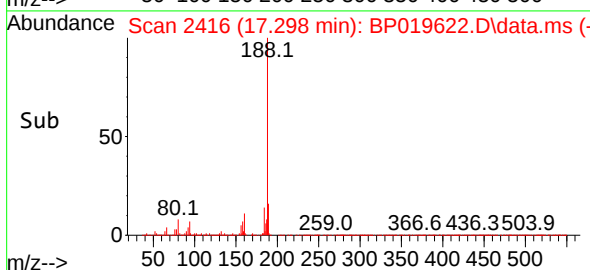
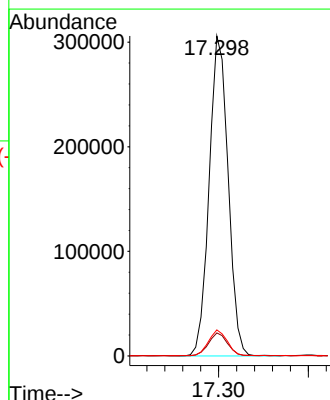
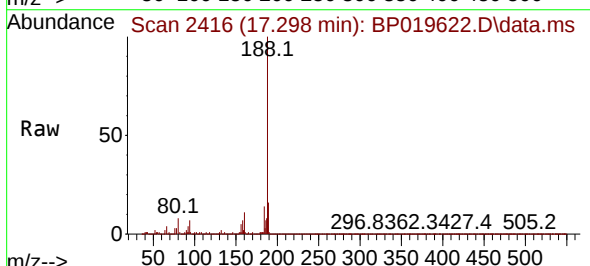
RT: 17.298 min Scan# 2416

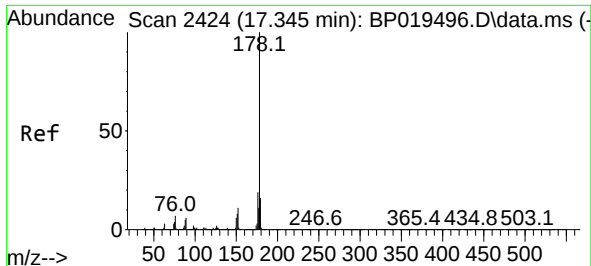
Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Tgt Ion:	188	Resp:	448669
Ion Ratio	Lower	Upper	
188	100		
94	7.2	5.4	8.2
80	8.1	6.3	9.5





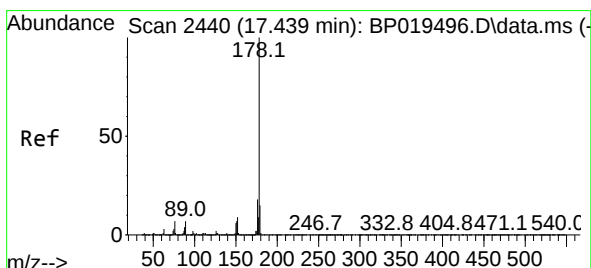
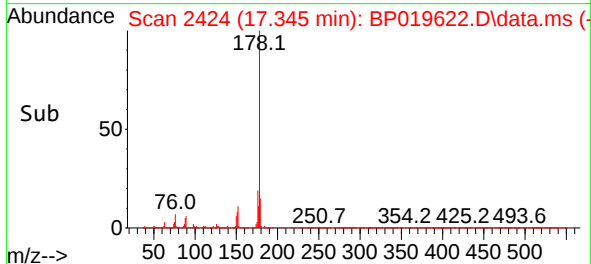
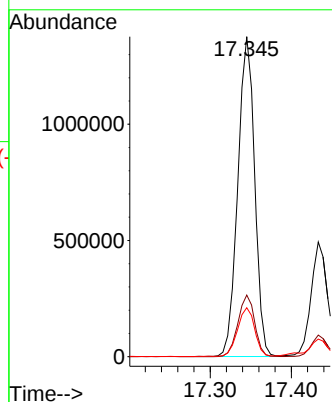
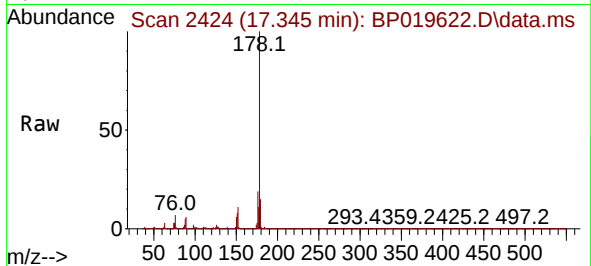
#71
Phenanthrene
Concen: 83.876 ng
RT: 17.345 min Scan# 2424
Delta R.T. 0.000 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :
BNA_P
ClientSampleId :
HD-01-020724

Tgt Ion:178 Resp: 1980483
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.3 12.6 19.0

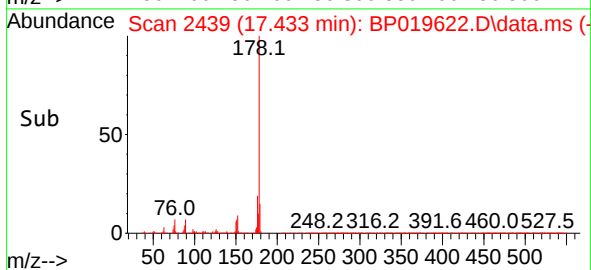
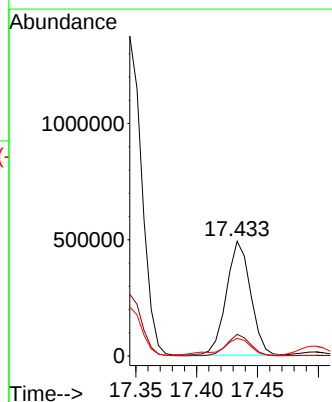
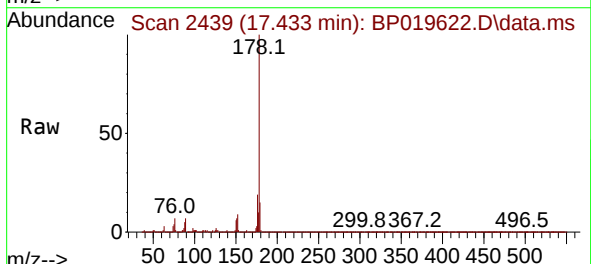
Manual Integrations
APPROVED

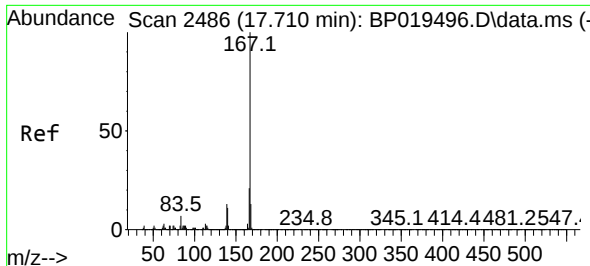
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#72
Anthracene
Concen: 28.720 ng
RT: 17.433 min Scan# 2439
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:178 Resp: 676483
Ion Ratio Lower Upper
178 100
176 18.9 14.7 22.1
179 15.3 12.2 18.2





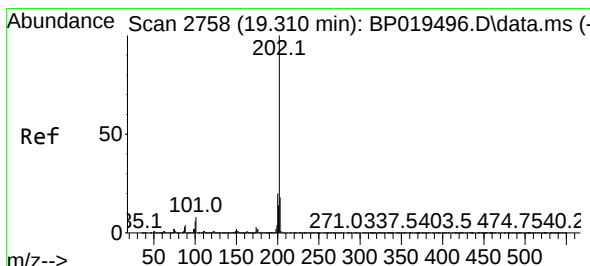
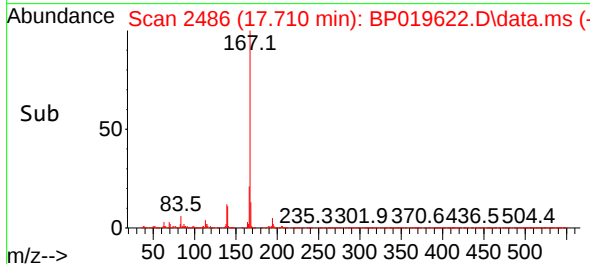
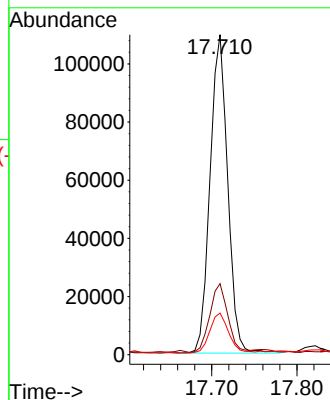
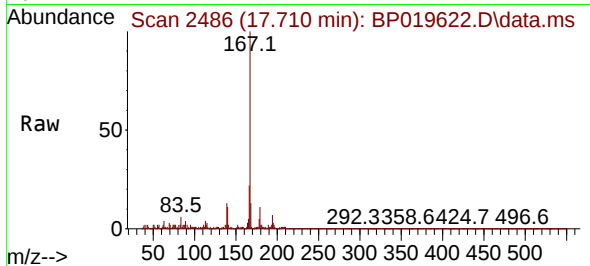
#73
 Carbazole
 Concen: 7.361 ng
 RT: 17.710 min Scan# 2486
 Delta R.T. 0.000 min
 Lab File: BP019622.D
 Acq: 08 Feb 2024 22:50

Instrument :
 BNA_P
 ClientSampleId :
 HD-01-020724

Tgt Ion:167 Resp: 157500
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.2 25.8
 139 13.0 10.6 15.8

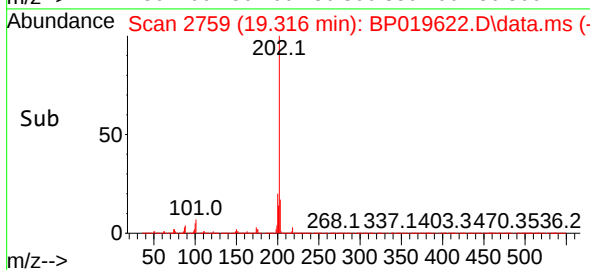
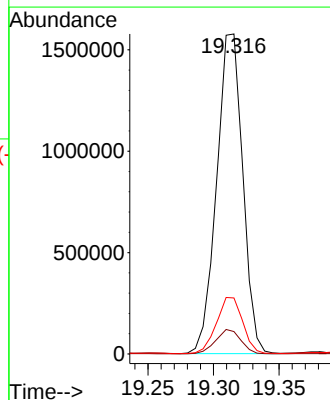
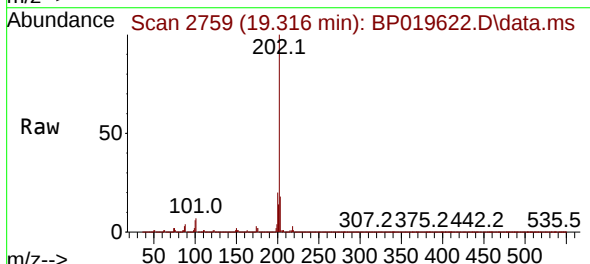
Manual Integrations
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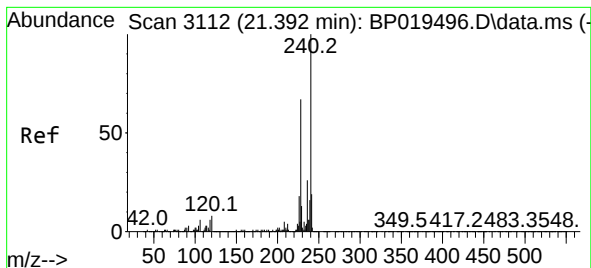
Reviewed By :Jagrut Upadhyay 02/09/2024
 Supervised By :mohammad ahmed 02/09/2024



#75
 Fluoranthene
 Concen: 75.734 ng
 RT: 19.316 min Scan# 2759
 Delta R.T. 0.006 min
 Lab File: BP019622.D
 Acq: 08 Feb 2024 22:50

Tgt Ion:202 Resp: 2184520
 Ion Ratio Lower Upper
 202 100
 101 7.0 0.0 27.7
 203 17.5 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.392 min Scan# 3112

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

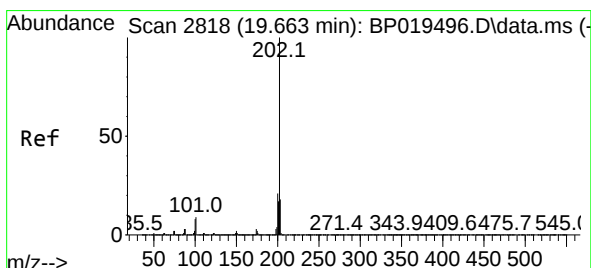
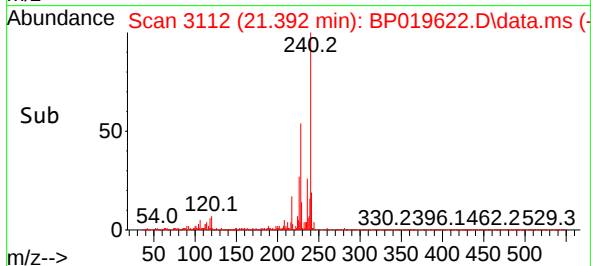
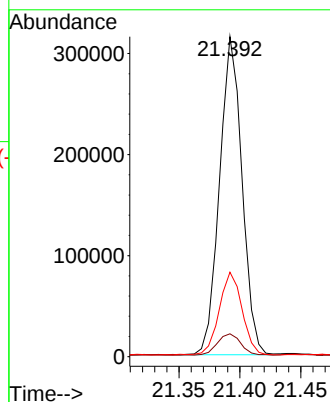
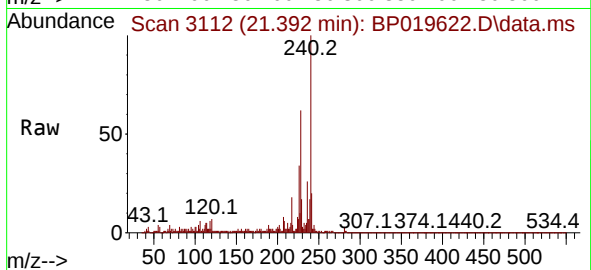
HD-01-020724

Tgt Ion:240 Resp: 403970
 Ion Ratio Lower Upper
 240 100
 120 8.6 6.1 9.1
 236 26.4 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/09/2024
 Supervised By :mohammad ahmed 02/09/2024



#78

Pyrene

Concen: 77.096 ng

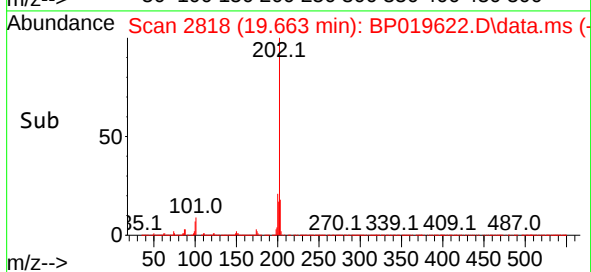
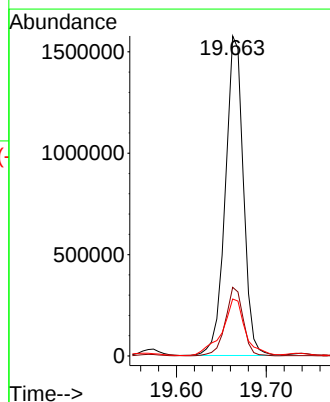
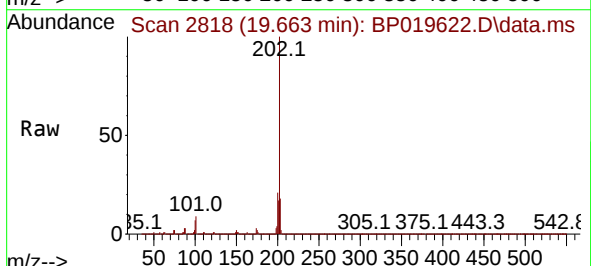
RT: 19.663 min Scan# 2818

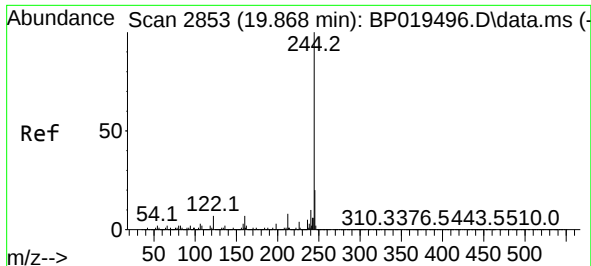
Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Tgt Ion:202 Resp: 2198067
 Ion Ratio Lower Upper
 202 100
 200 21.5 16.9 25.3
 203 17.8 14.2 21.2





#79
 Terphenyl-d14
 Concen: 13.555 ng
 RT: 19.863 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BP019622.D
 Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

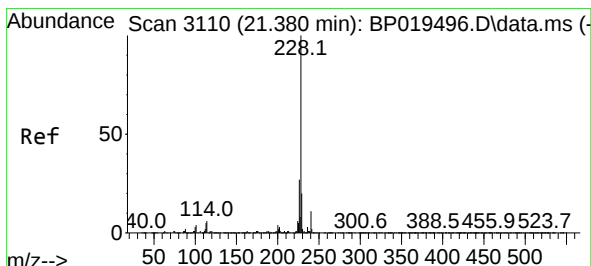
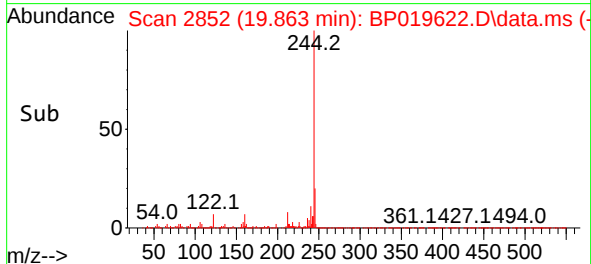
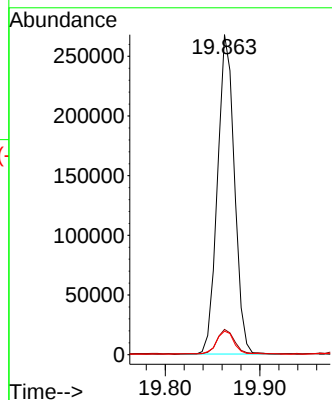
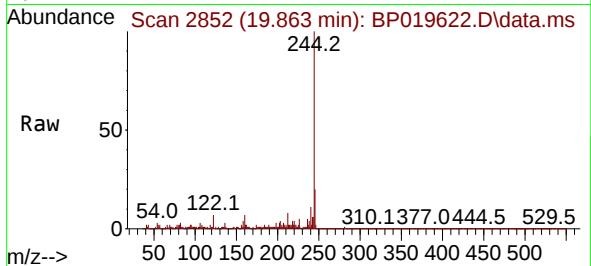
ClientSampleId :

HD-01-020724

Tgt Ion:244 Resp: 33298
 Ion Ratio Lower Upper
 244 100
 212 7.9 6.1 9.1
 122 7.4 5.9 8.9

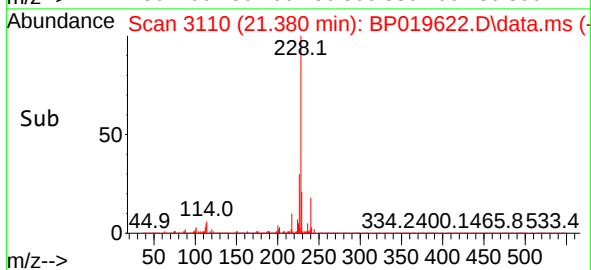
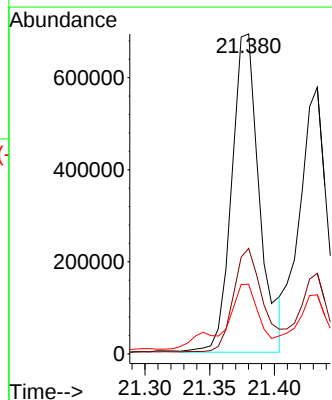
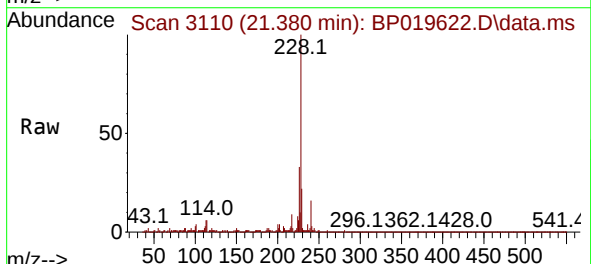
Manual Integrations
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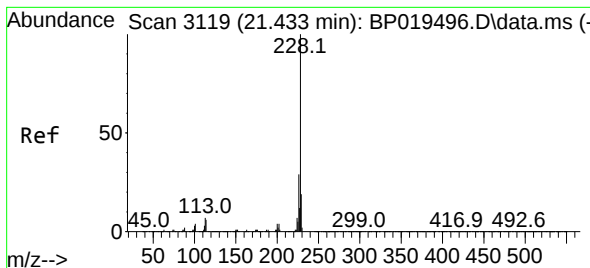
Reviewed By :Jagrut Upadhyay 02/09/2024
 Supervised By :mohammad ahmed 02/09/2024



#81
 Benzo(a)anthracene
 Concen: 36.288 ng m
 RT: 21.380 min Scan# 3110
 Delta R.T. 0.000 min
 Lab File: BP019622.D
 Acq: 08 Feb 2024 22:50

Tgt Ion:228 Resp: 1031915
 Ion Ratio Lower Upper
 228 100
 226 33.0 21.7 32.5#
 229 21.8 15.6 23.4





#83

Chrysene

Concen: 30.989 ng

RT: 21.433 min Scan# 3119

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

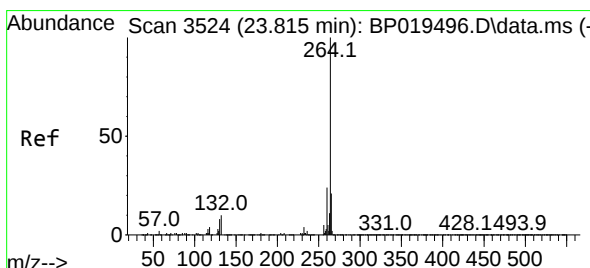
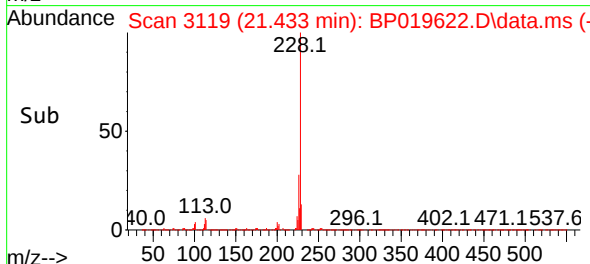
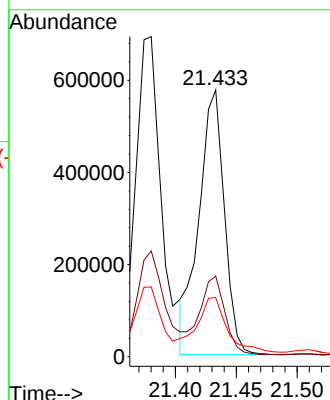
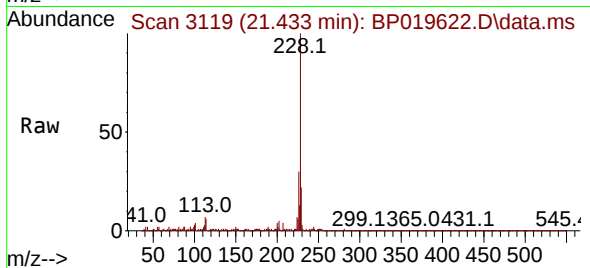
HD-01-020724

Tgt Ion:228	Resp: 83664
Ion Ratio	Lower Upper
228 100	
226 30.3	23.4 35.2
229 22.2	15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#86

Perylene-d12

Concen: 20.000 ng

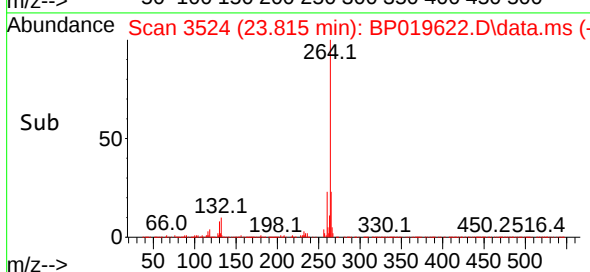
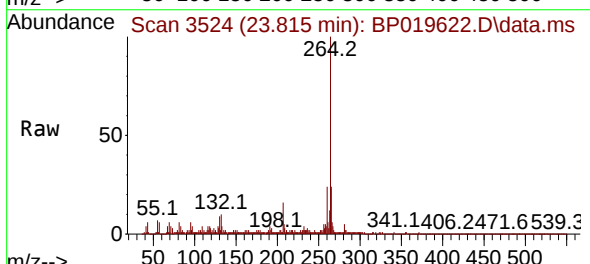
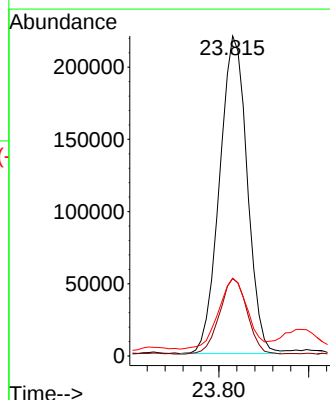
RT: 23.815 min Scan# 3524

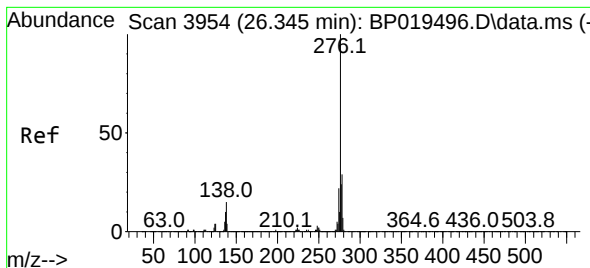
Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Tgt Ion:264	Resp: 469948
Ion Ratio	Lower Upper
264 100	
260 24.2	19.2 28.8
265 24.3	17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 14.100 ng

RT: 26.345 min Scan# 3954

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

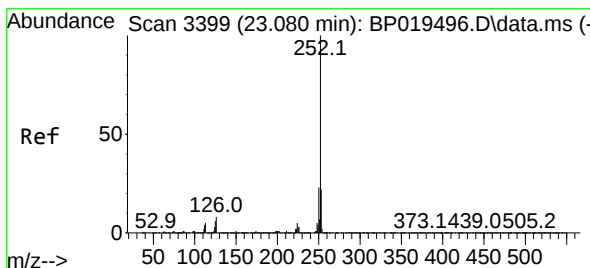
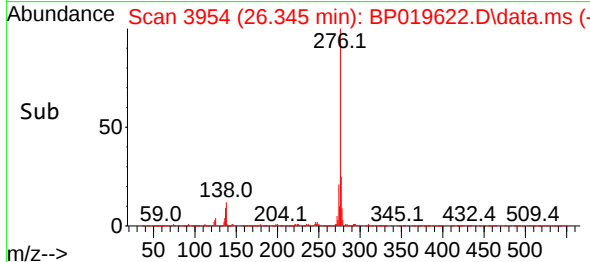
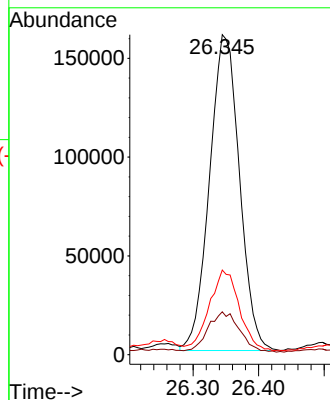
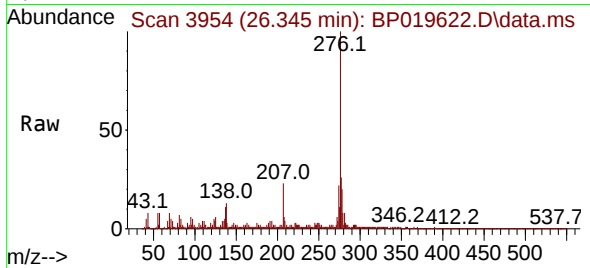
HD-01-020724

Tgt Ion:	276	Resp:	50720
Ion Ratio	Lower	Upper	
276	100		
138	13.4	13.1	19.7
277	25.4	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#88

Benzo(b)fluoranthene

Concen: 37.311 ng

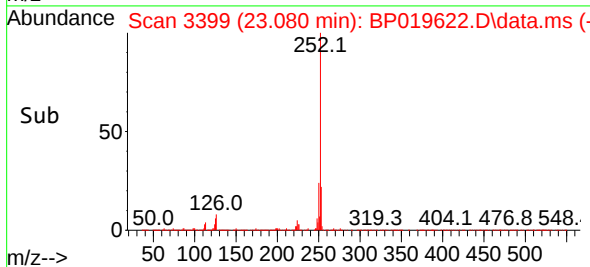
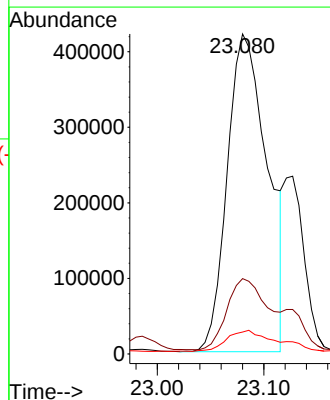
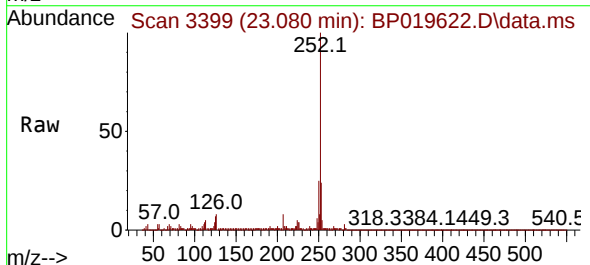
RT: 23.080 min Scan# 3399

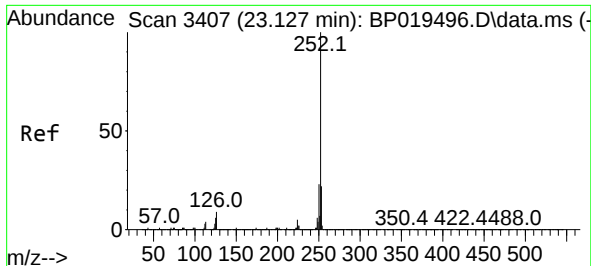
Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Tgt Ion:	252	Resp:	1105105
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.3	25.9
125	6.9	4.9	7.3





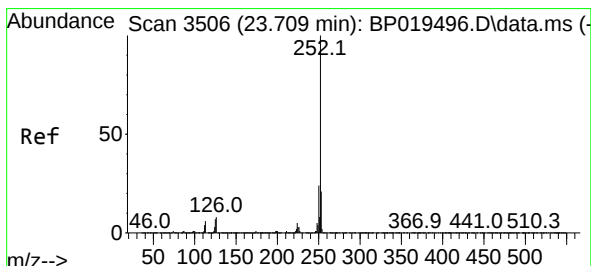
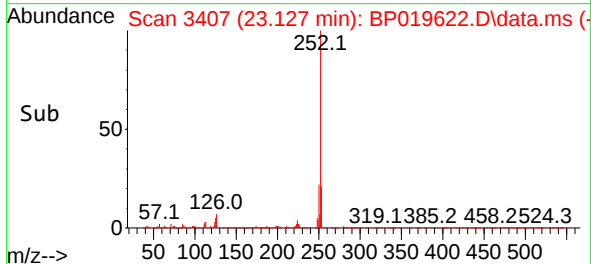
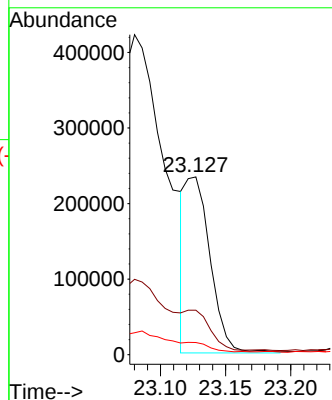
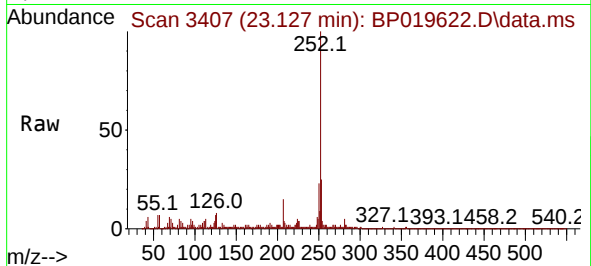
#89
Benzo(k)fluoranthene
Concen: 10.920 ng m
RT: 23.127 min Scan# 3407
Delta R.T. 0.000 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :
BNA_P
ClientSampleId :
HD-01-020724

Tgt Ion:252 Resp: 308944
Ion Ratio Lower Upper
252 100
253 25.1 17.1 25.7
125 6.8 5.0 7.6

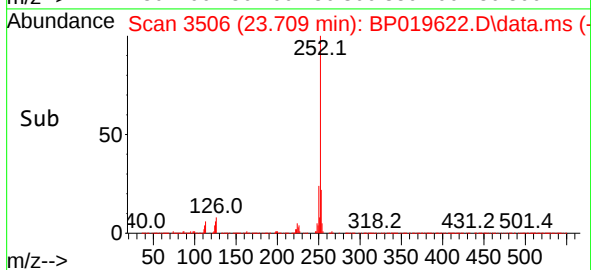
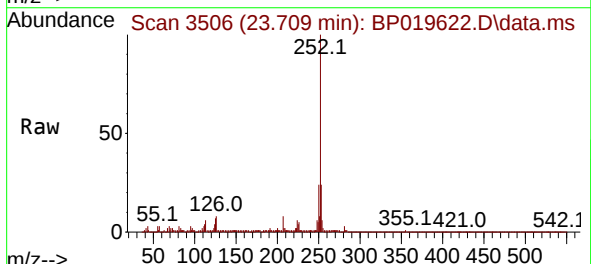
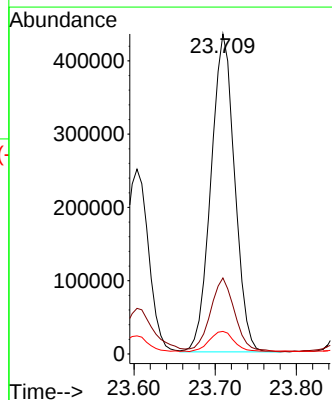
Manual Integrations
APPROVED

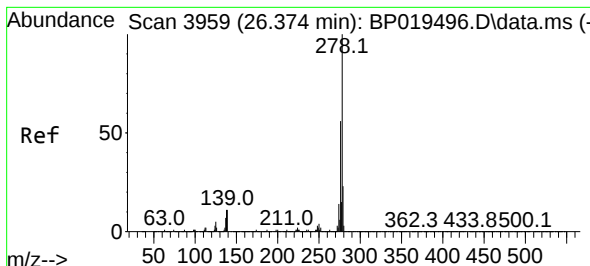
Reviewed By :Jagrut Upadhyay 02/09/2024
Supervised By :mohammad ahmed 02/09/2024



#90
Benzo(a)pyrene
Concen: 33.366 ng
RT: 23.709 min Scan# 3506
Delta R.T. 0.000 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:252 Resp: 879325
Ion Ratio Lower Upper
252 100
253 23.8 17.1 25.7
125 7.1 5.6 8.4





#91

Dibenzo(a,h)anthracene

Concen: 4.863 ng

RT: 26.362 min Scan# 3957

Delta R.T. -0.012 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

Tgt Ion:278 Resp: 143884

Ion Ratio Lower Upper

278 100

139 17.0 8.6 12.8

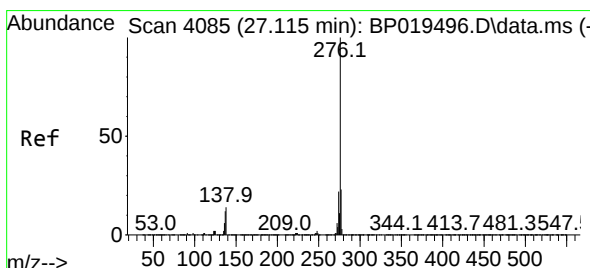
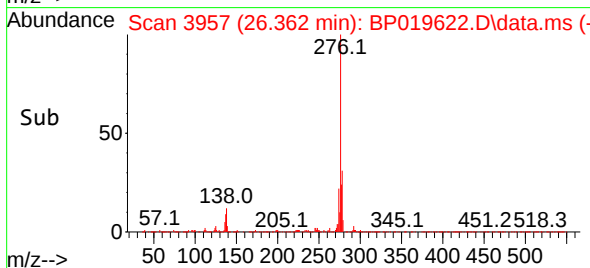
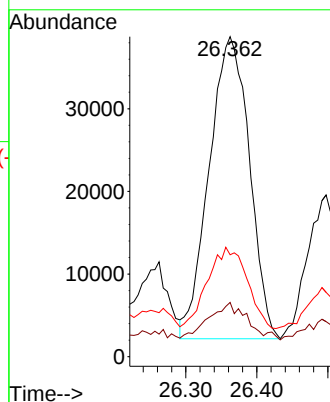
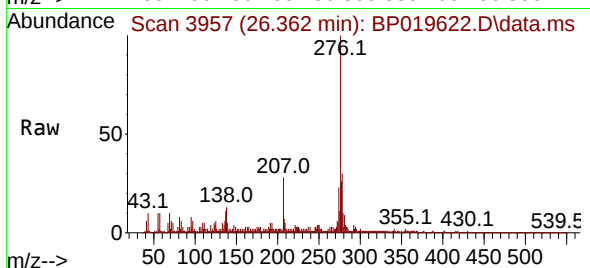
279 31.9 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/09/2024

Supervised By :mohammad ahmed 02/09/2024



#92

Benzo(g,h,i)perylene

Concen: 16.293 ng

RT: 27.127 min Scan# 4087

Delta R.T. 0.012 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Tgt Ion:276 Resp: 489050

Ion Ratio Lower Upper

276 100

277 24.7 18.6 28.0

138 12.6 10.9 16.3

