

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081624\
 Data File : BP021544.D
 Acq On : 16 Aug 2024 18:05
 Operator : RC/JU
 Sample : P3519-05RE
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OU4-TS-18-080724RE

Quant Time: Aug 16 18:39:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 00:00:30 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/17/2024
 Supervised By :mohammad ahmed 08/17/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.816	152	533883	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	2078369	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	1079898	20.000	ng	0.00
64) Phenanthrene-d10	17.263	188	1822950	20.000	ng	0.01
76) Chrysene-d12	21.722	240	1744605	20.000	ng	0.02
86) Perylene-d12	25.145	264	2098923	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.411	112	2819718	78.423	ng	0.02
7) Phenol-d6	6.981	99	3873734	73.856	ng	0.02
23) Nitrobenzene-d5	8.963	82	2339571	58.102	ng	0.01
42) 2,4,6-Tribromophenol	15.975	330	860550	71.600	ng	0.00
45) 2-Fluorobiphenyl	13.075	172	3403946	48.106	ng	0.01
79) Terphenyl-d14	19.986	244	3467645	38.614	ng	0.01
Target Compounds					Qvalue	
71) Phenanthrene	17.304	178	436582	4.980	ng	99
75) Fluoranthene	19.392	202	1038314	9.653	ng	100
78) Pyrene	19.769	202	925306	8.115	ng	99
81) Benzo(a)anthracene	21.698	228	530555	4.844	ng	96
83) Chrysene	21.769	228	507406	4.907	ng	97
87) Indeno(1,2,3-cd)pyrene	29.039	276	393006	2.889	ng	# 87
88) Benzo(b)fluoranthene	24.068	252	736278	6.108	ng	# 96
89) Benzo(k)fluoranthene	24.127	252	256892m	2.185	ng	
90) Benzo(a)pyrene	24.974	252	522317	4.993	ng	# 96
92) Benzo(g,h,i)perylene	30.250	276	364385	3.216	ng	97

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

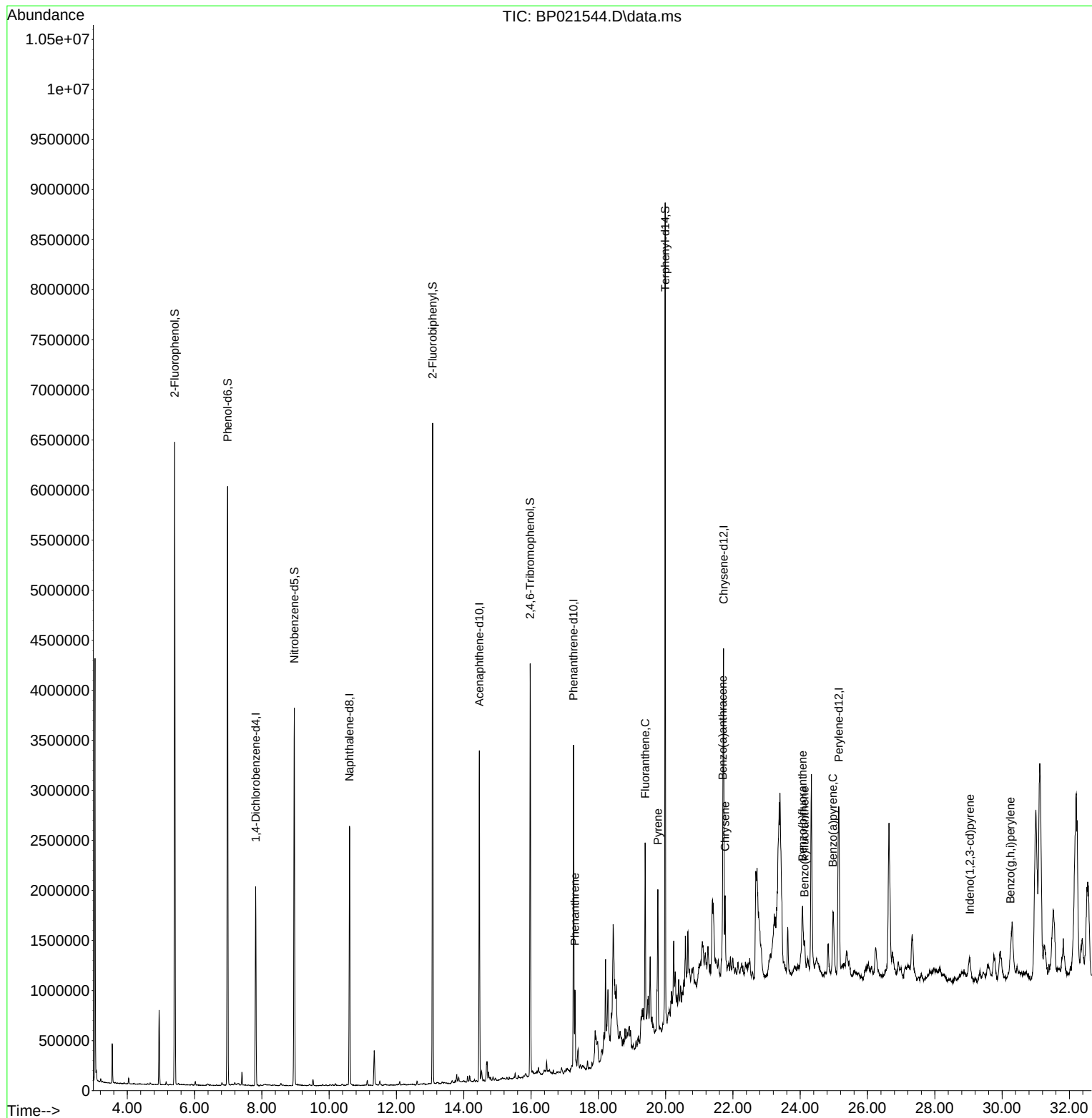
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081624\
Data File : BP021544.D
Acq On : 16 Aug 2024 18:05
Operator : RC/JU
Sample : P3519-05RE
Misc :
ALS Vial : 14 Sample Multiplier: 1

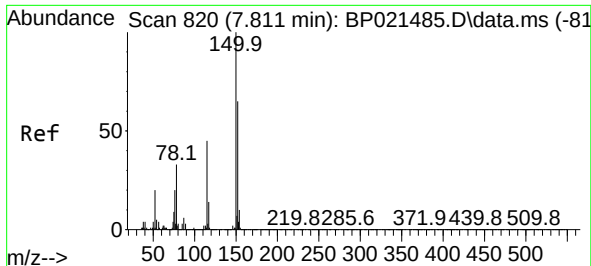
Instrument :
BNA_P
ClientSampleId :
OU4-TS-18-080724RE

Quant Time: Aug 16 18:39:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081324.M
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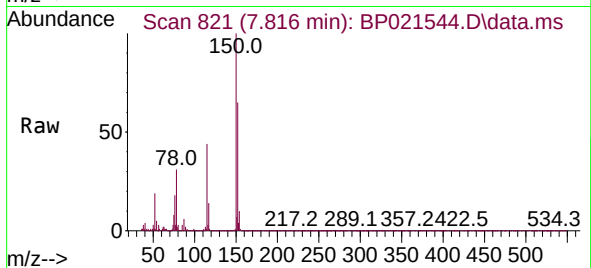
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/17/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.816 min Scan# 81
Delta R.T. 0.005 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

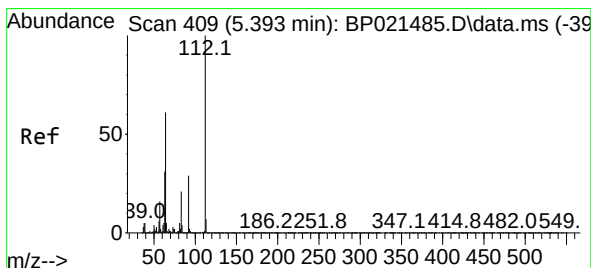
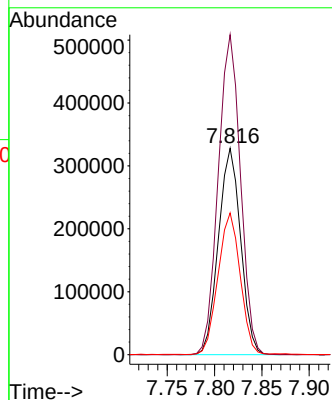
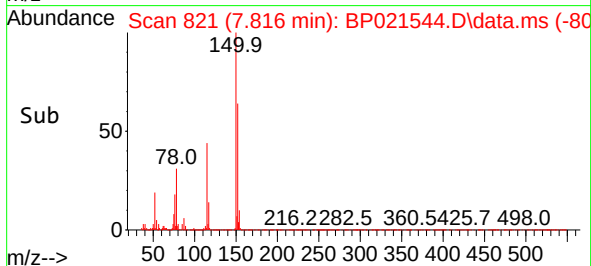
Instrument :
BNA_P
ClientSampleId :
OU4-TS-18-080724RE



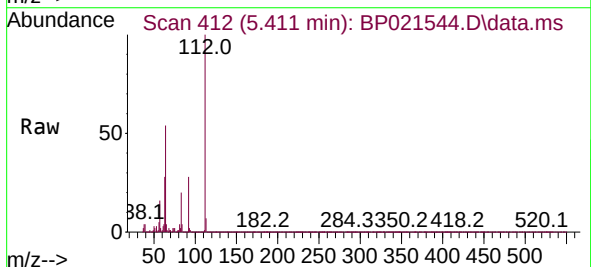
Tgt Ion:152 Resp: 53388
Ion Ratio Lower Upper
152 100
150 155.0 122.4 183.6
115 68.7 54.7 82.1

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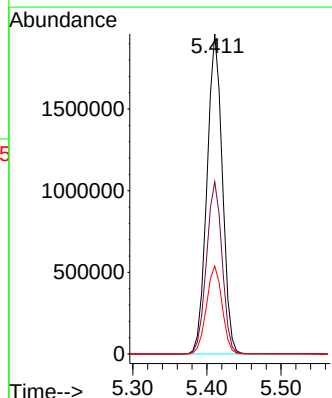
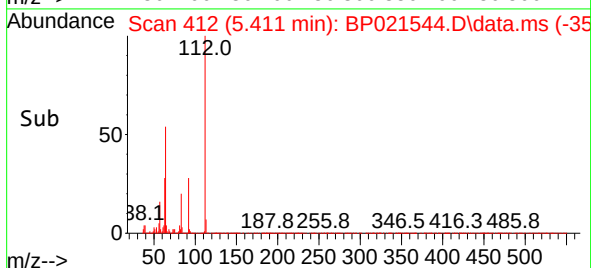
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/17/2024

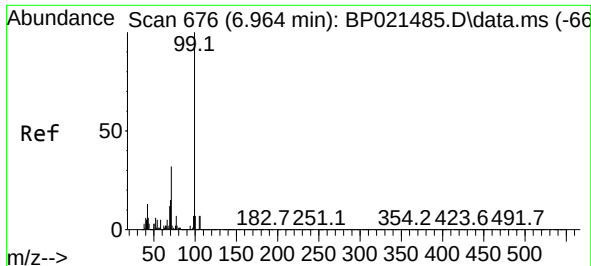


#5
2-Fluorophenol
Concen: 78.423 ng
RT: 5.411 min Scan# 412
Delta R.T. 0.018 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05



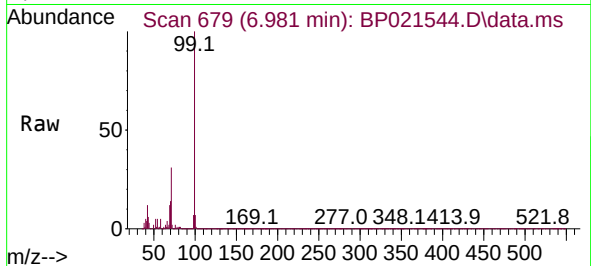
Tgt Ion:112 Resp: 2819718
Ion Ratio Lower Upper
112 100
64 53.8 49.0 73.6
63 27.5 24.6 36.8





#7
Phenol-d6
Concen: 73.856 ng
RT: 6.981 min Scan# 61
Delta R.T. 0.018 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

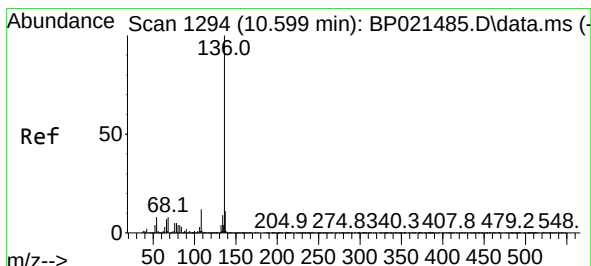
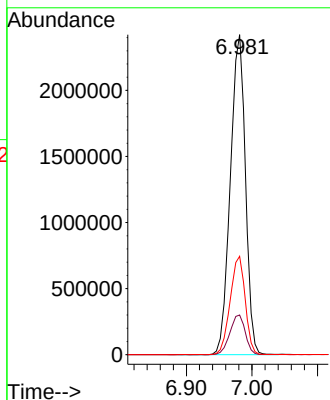
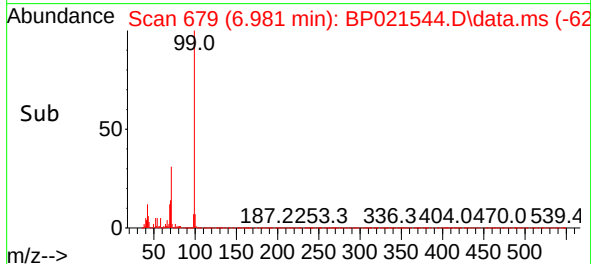
Instrument :
BNA_P
ClientSampleId :
OU4-TS-18-080724RE



Tgt Ion: 99 Resp: 3873734
Ion Ratio Lower Upper
99 100
42 12.4 10.2 15.4
71 30.8 25.8 38.8

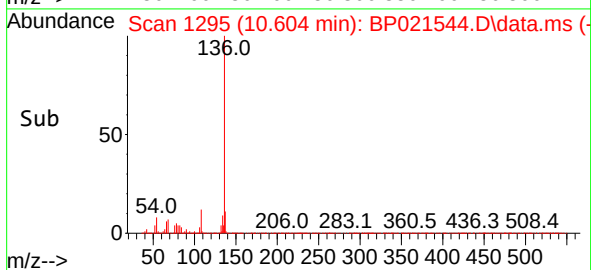
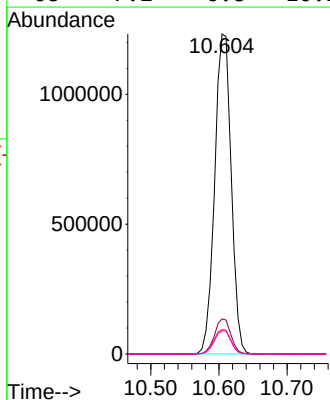
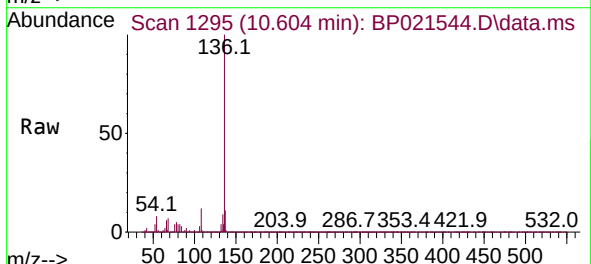
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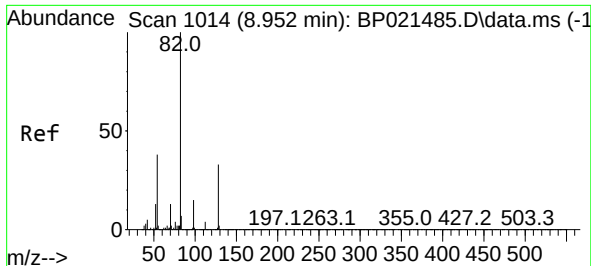
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/17/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1295
Delta R.T. 0.005 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

Tgt Ion:136 Resp: 2078369
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 7.6 6.3 9.5
68 7.2 6.8 10.2





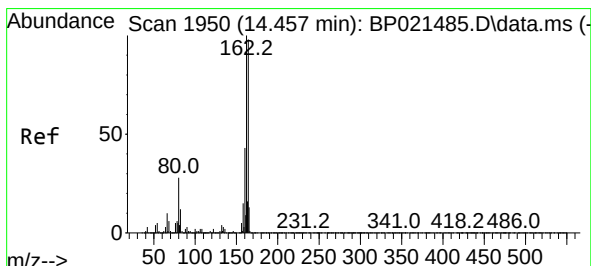
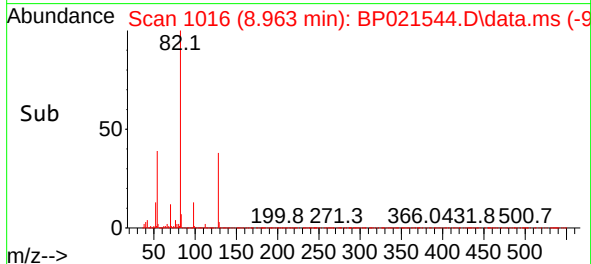
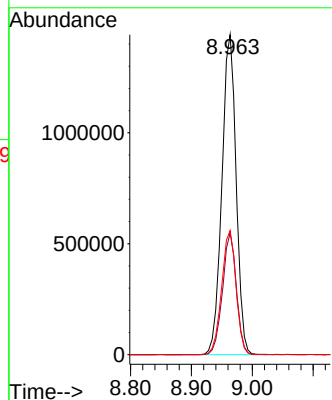
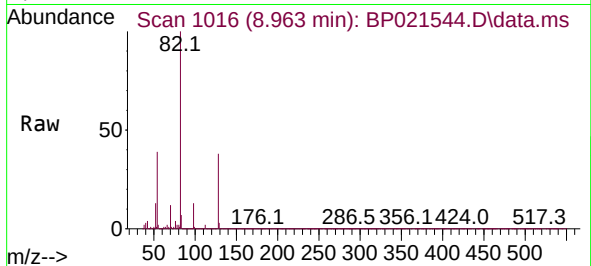
#23
Nitrobenzene-d5
Concen: 58.102 ng
RT: 8.963 min Scan# 1016
Delta R.T. 0.012 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

Instrument :
BNA_P
ClientSampleId :
OU4-TS-18-080724RE

Tgt Ion: 82 Resp: 233957
Ion Ratio Lower Upper
82 100
128 38.0 26.5 39.7
54 38.8 30.3 45.5

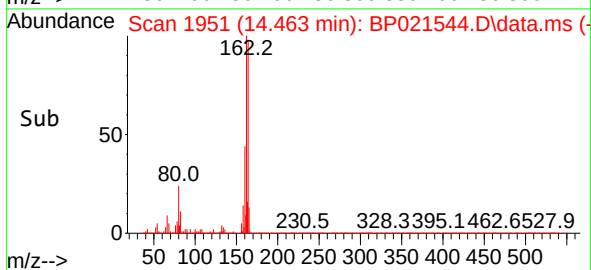
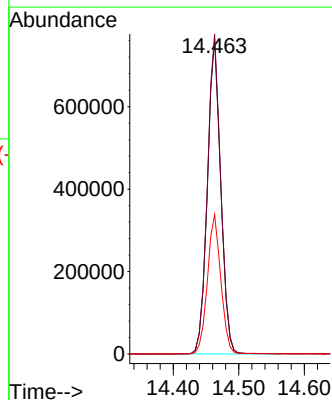
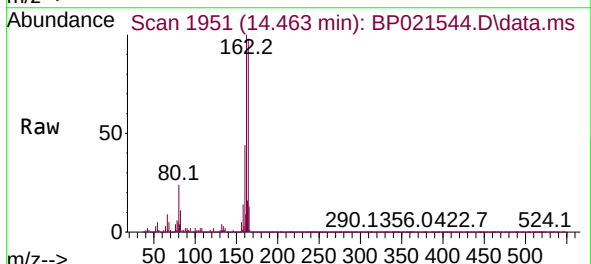
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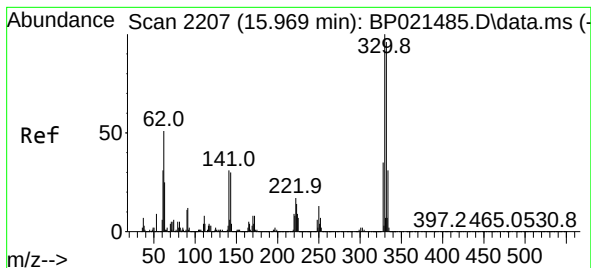
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/17/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.463 min Scan# 1951
Delta R.T. 0.006 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

Tgt Ion:164 Resp: 1079898
Ion Ratio Lower Upper
164 100
162 101.8 81.5 122.3
160 44.3 35.2 52.8





#42

2,4,6-Tribromophenol

Concen: 71.600 ng

RT: 15.975 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Instrument :

BNA_P

ClientSampleId :

OU4-TS-18-080724RE

Tgt Ion:330 Resp: 860550

Ion Ratio Lower Upper

330 100

332 95.9 77.4 116.0

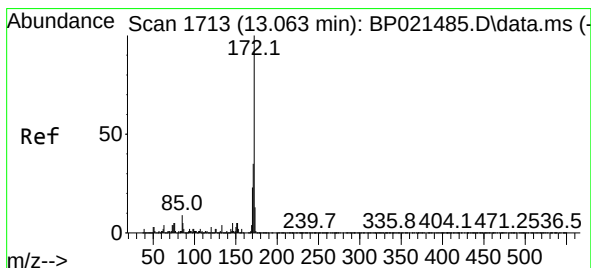
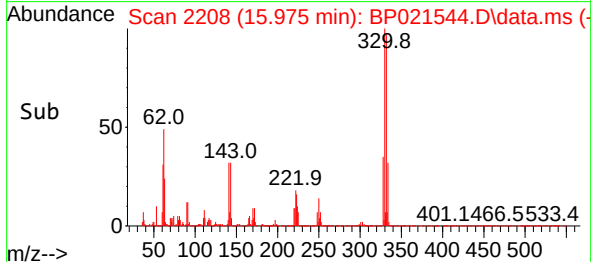
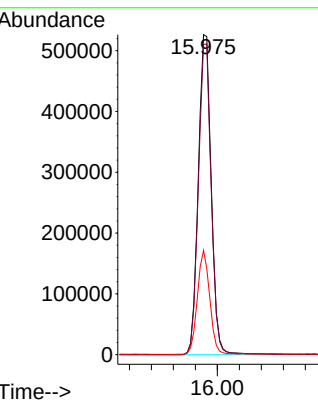
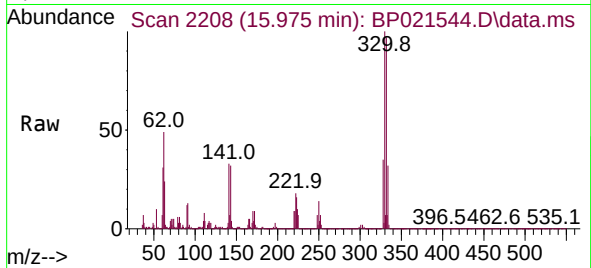
141 30.9 24.5 36.7

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/17/2024



#45

2-Fluorobiphenyl

Concen: 48.106 ng

RT: 13.075 min Scan# 1715

Delta R.T. 0.012 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

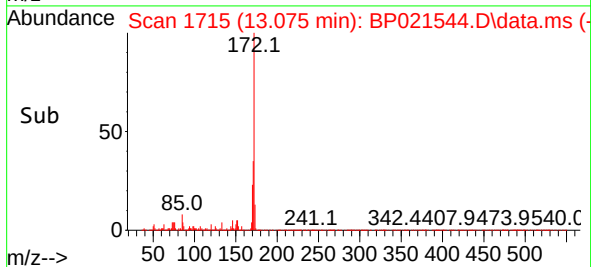
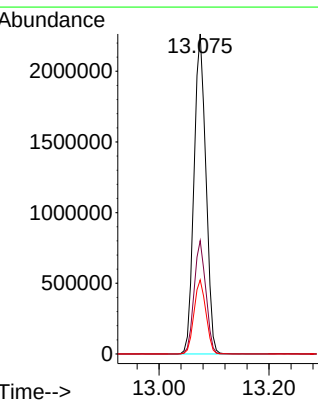
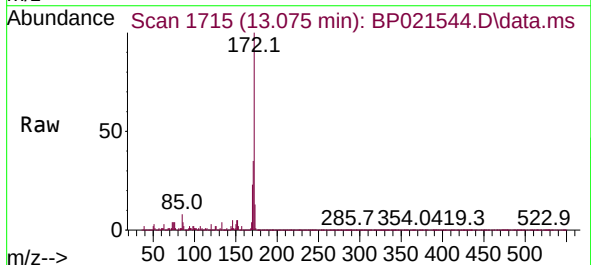
Tgt Ion:172 Resp: 3403946

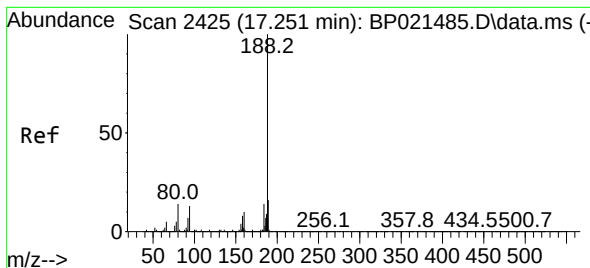
Ion Ratio Lower Upper

172 100

171 35.4 28.2 42.4

170 23.1 18.4 27.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.263 min Scan# 2425

Delta R.T. 0.012 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Instrument :

BNA_P

ClientSampleId :

OU4-TS-18-080724RE

Tgt Ion:188 Resp: 1822950

Ion Ratio Lower Upper

188 100

94 12.4 10.2 15.4

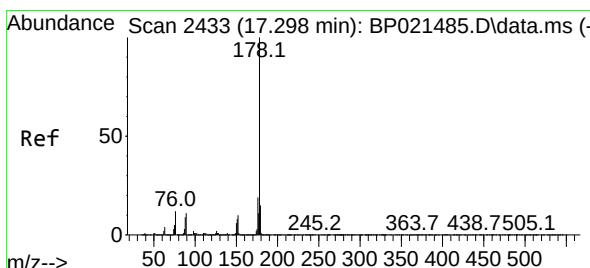
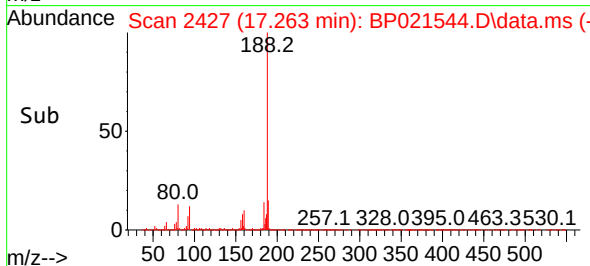
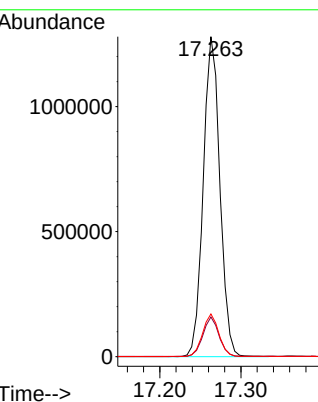
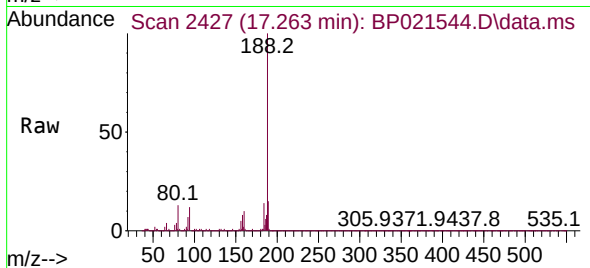
80 13.4 11.6 17.4

Manual Integrations

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Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/17/2024



#71

Phenanthrene

Concen: 4.980 ng

RT: 17.304 min Scan# 2434

Delta R.T. 0.006 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

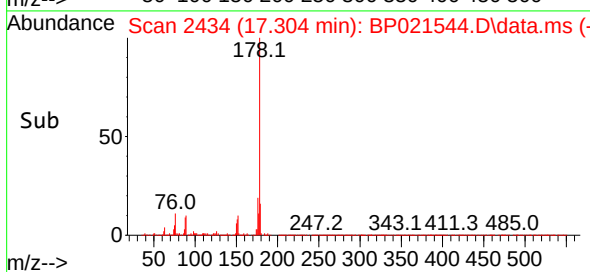
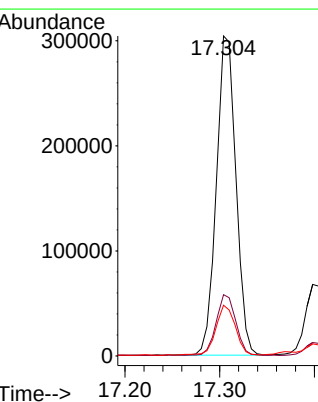
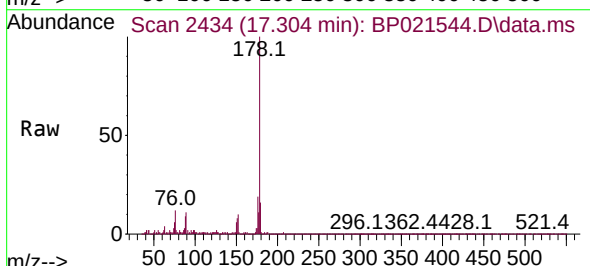
Tgt Ion:178 Resp: 436582

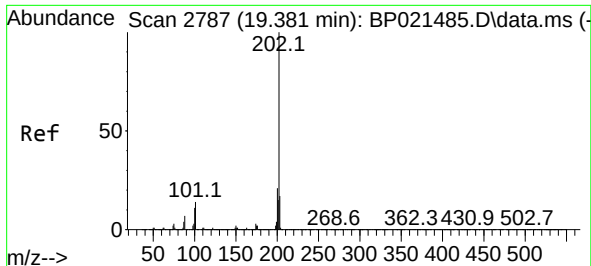
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

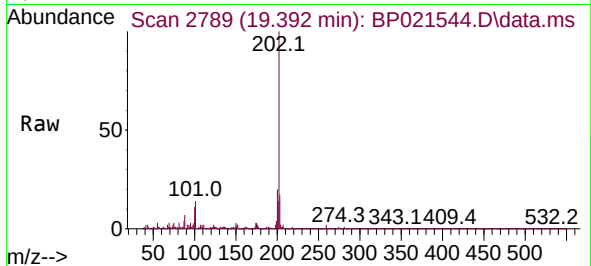
179 15.9 12.4 18.6





#75
Fluoranthene
Concen: 9.653 ng
RT: 19.392 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

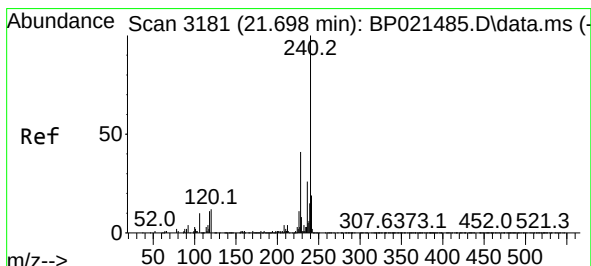
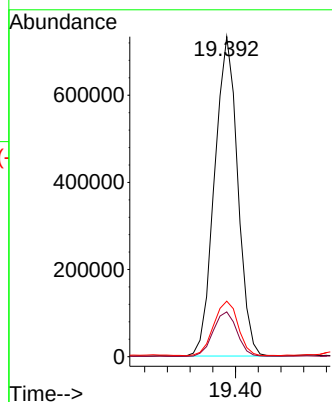
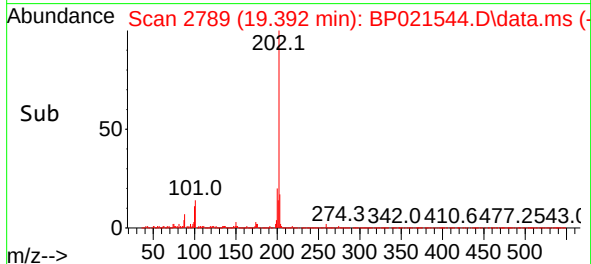
Instrument :
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OU4-TS-18-080724RE



Tgt Ion:202 Resp: 1038314
Ion Ratio Lower Upper
202 100
101 14.0 0.0 34.0
203 17.4 0.0 37.5

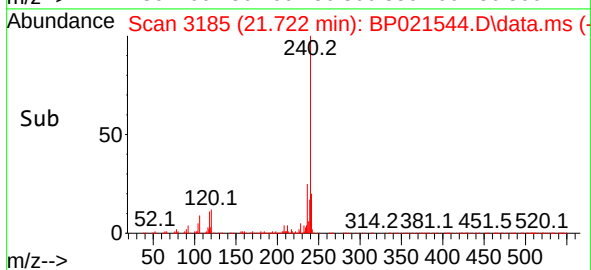
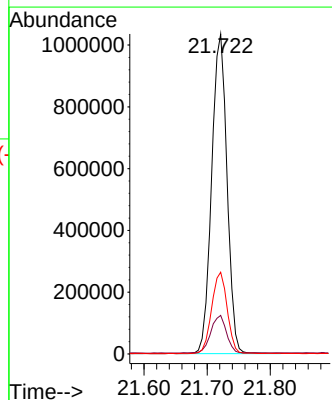
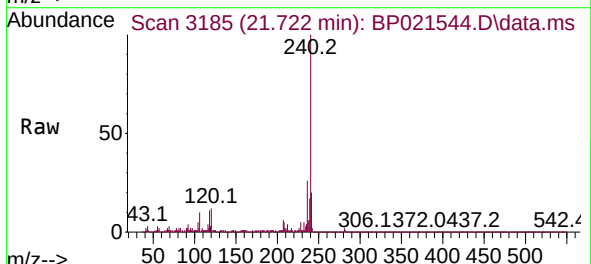
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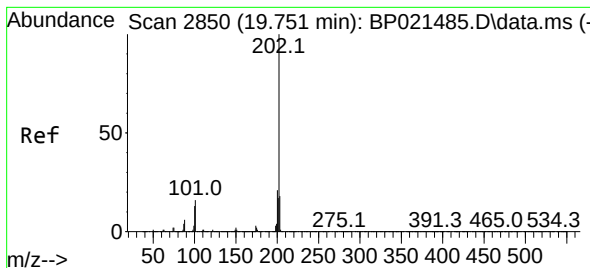
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/17/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.722 min Scan# 3185
Delta R.T. 0.023 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

Tgt Ion:240 Resp: 1744605
Ion Ratio Lower Upper
240 100
120 12.1 9.9 14.9
236 25.5 20.6 30.8





#78

Pyrene

Concen: 8.115 ng

RT: 19.769 min Scan# 21

Delta R.T. 0.018 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Instrument :

BNA_P

ClientSampleId :

OU4-TS-18-080724RE

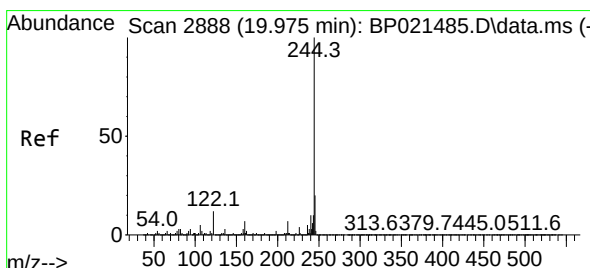
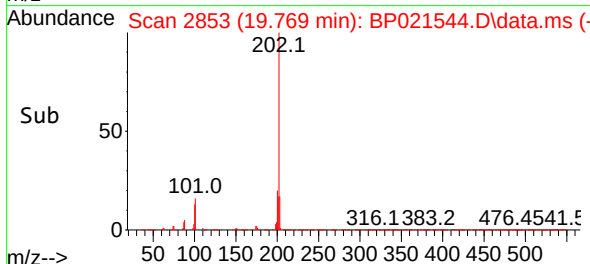
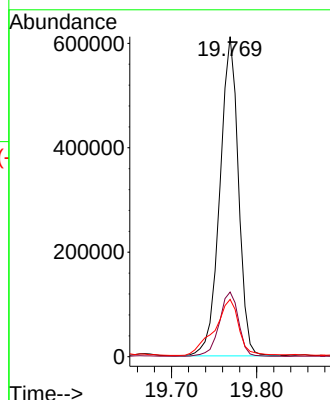
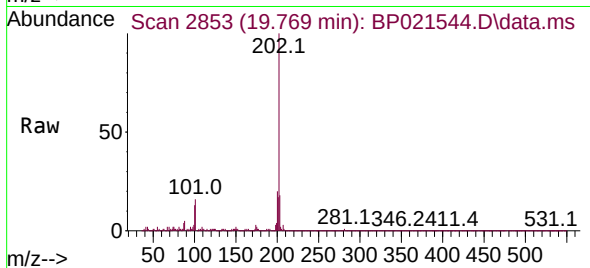
Tgt Ion:202 Resp: 925300
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.7 25.1
 203 17.9 14.1 21.1

Manual Integrations

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#79

Terphenyl-d14

Concen: 38.614 ng

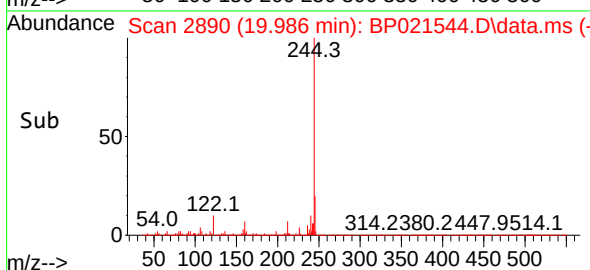
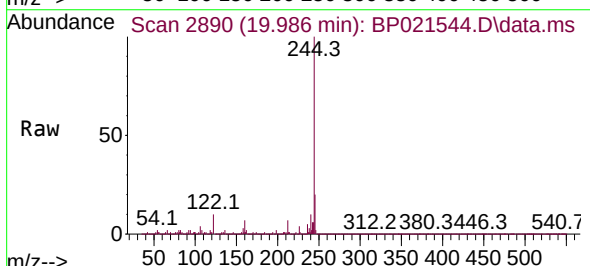
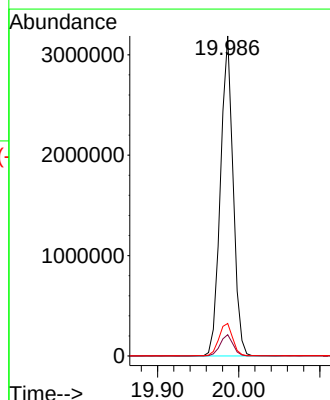
RT: 19.986 min Scan# 2890

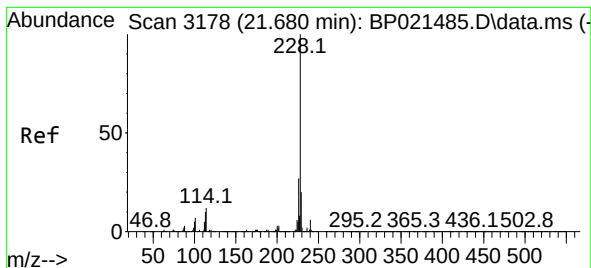
Delta R.T. 0.011 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Tgt Ion:244 Resp: 3467645
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.6 8.4
 122 10.2 9.4 14.2





#81

Benzo(a)anthracene

Concen: 4.844 ng

RT: 21.698 min Scan# 3178

Delta R.T. 0.018 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Instrument :

BNA_P

ClientSampleId :

OU4-TS-18-080724RE

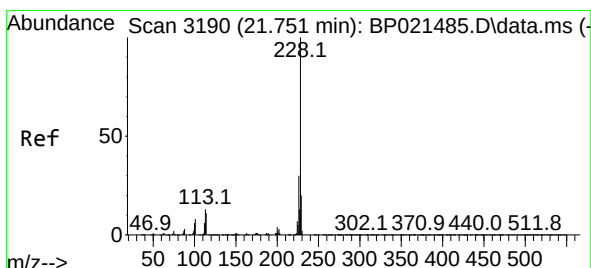
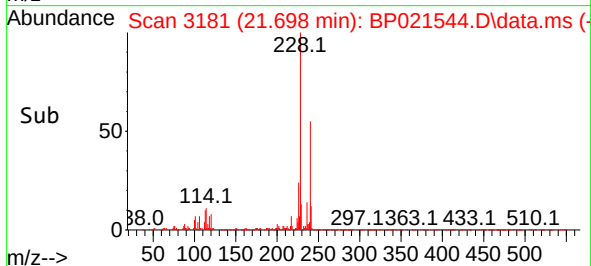
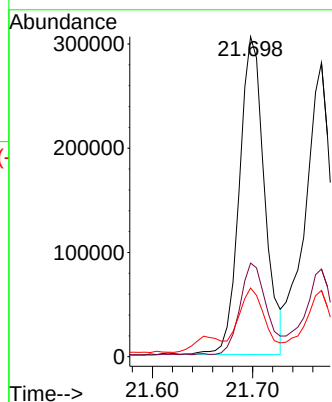
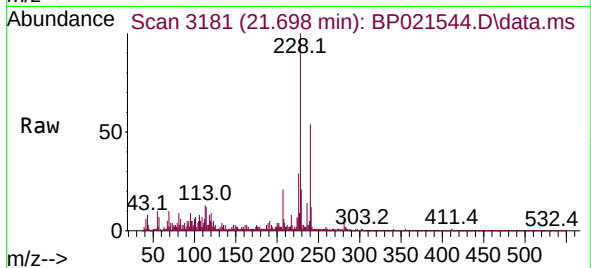
Tgt Ion:	228	Resp:	53055
Ion Ratio	Lower	Upper	
228	100		
226	29.2	21.4	32.2
229	21.5	15.8	23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/17/2024



#83

Chrysene

Concen: 4.907 ng

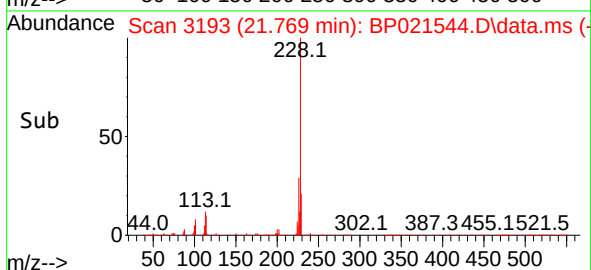
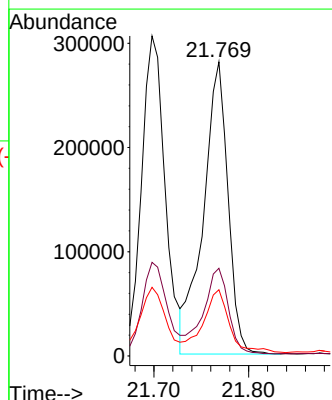
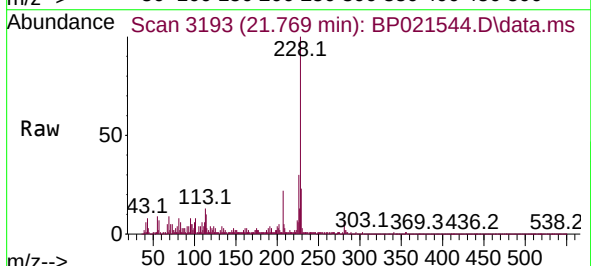
RT: 21.769 min Scan# 3193

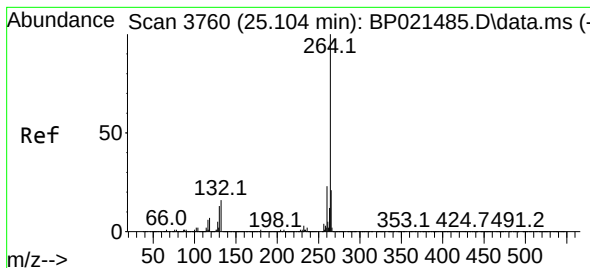
Delta R.T. 0.018 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Tgt Ion:	228	Resp:	507406
Ion Ratio	Lower	Upper	
228	100		
226	29.8	23.9	35.9
229	22.5	15.8	23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.145 min Scan# 31

Delta R.T. 0.041 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Instrument :

BNA_P

ClientSampleId :

OU4-TS-18-080724RE

Tgt Ion:264 Resp: 209892

Ion Ratio Lower Upper

264 100

260 24.0 18.6 28.0

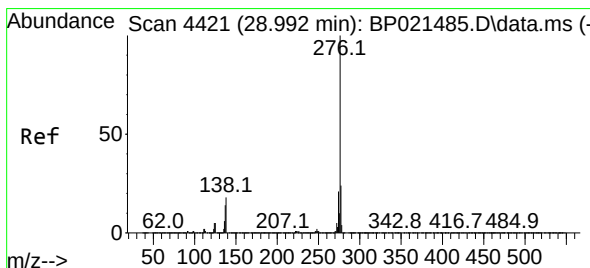
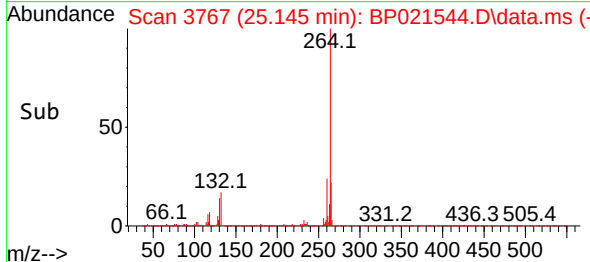
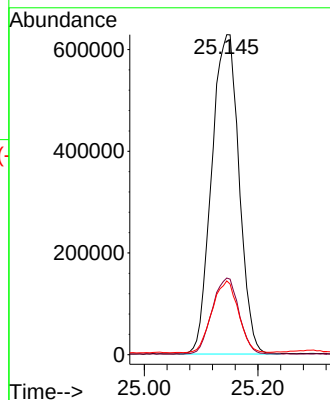
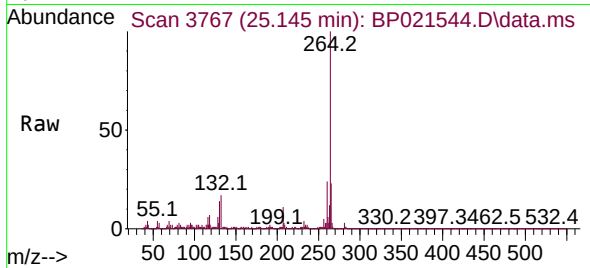
265 23.1 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/17/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.889 ng

RT: 29.039 min Scan# 4429

Delta R.T. 0.047 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

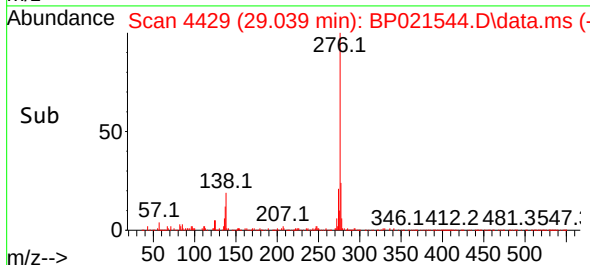
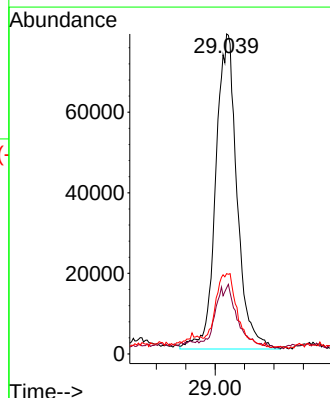
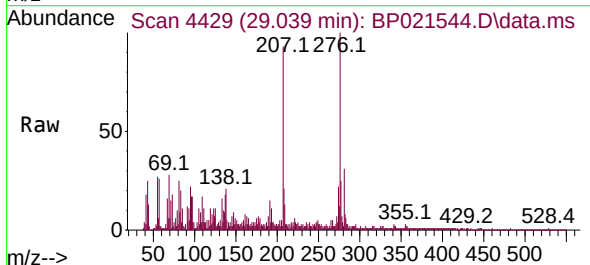
Tgt Ion:276 Resp: 393006

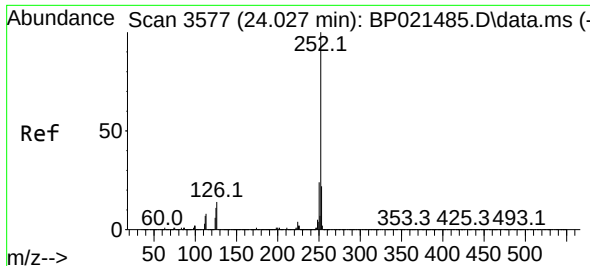
Ion Ratio Lower Upper

276 100

138 6.3 12.8 19.2#

277 22.7 16.5 24.7





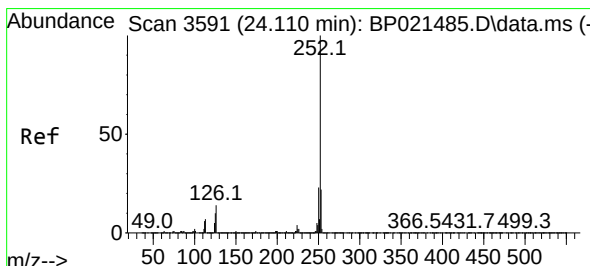
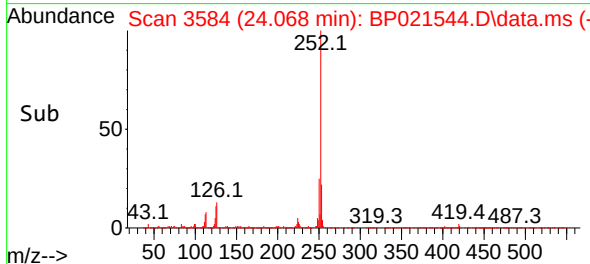
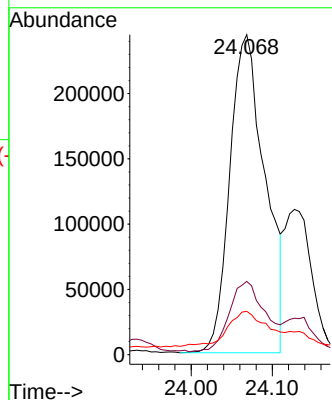
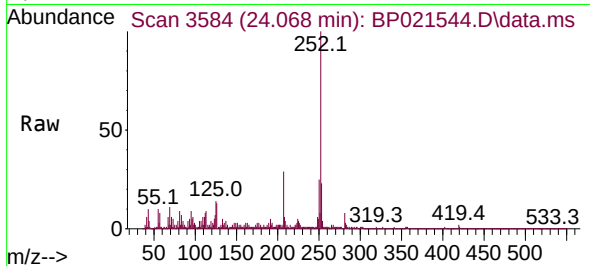
#88
Benzo(b)fluoranthene
Concen: 6.108 ng
RT: 24.068 min Scan# 3577
Delta R.T. 0.041 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

Instrument :
BNA_P
ClientSampleId :
OU4-TS-18-080724RE

Tgt Ion:252 Resp: 736278
Ion Ratio Lower Upper
252 100
253 22.9 17.6 26.4
125 13.5 8.6 13.0

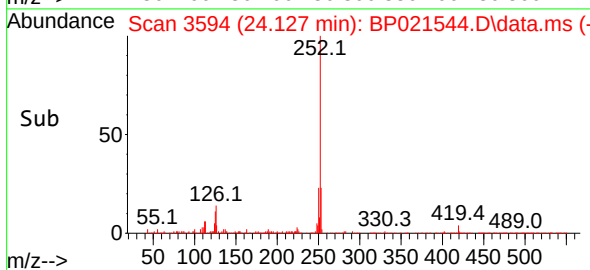
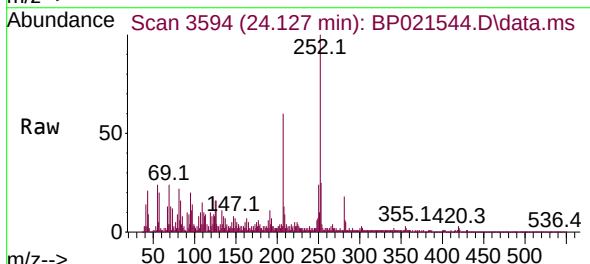
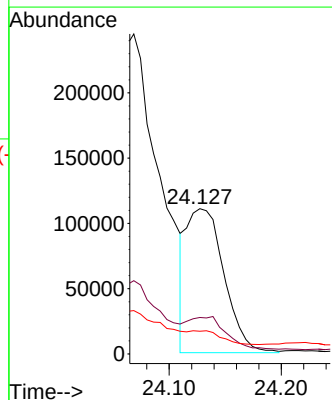
Manual Integrations
APPROVED

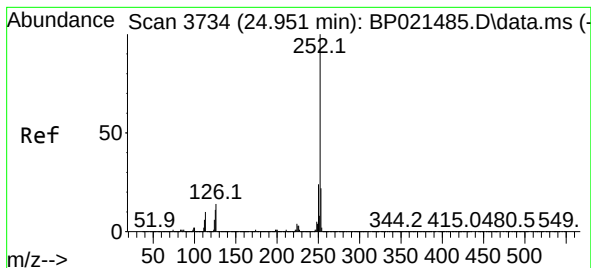
Reviewed By :Yogesh Patel 08/17/2024
Supervised By :mohammad ahmed 08/17/2024



#89
Benzo(k)fluoranthene
Concen: 2.185 ng m
RT: 24.127 min Scan# 3594
Delta R.T. 0.018 min
Lab File: BP021544.D
Acq: 16 Aug 2024 18:05

Tgt Ion:252 Resp: 256892
Ion Ratio Lower Upper
252 100
253 25.1 17.5 26.3
125 15.6 7.8 11.8





#90

Benzo(a)pyrene

Concen: 4.993 ng

RT: 24.974 min Scan# 31

Delta R.T. 0.023 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Instrument :

BNA_P

ClientSampleId :

OU4-TS-18-080724RE

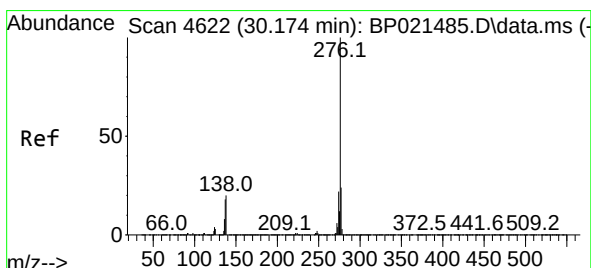
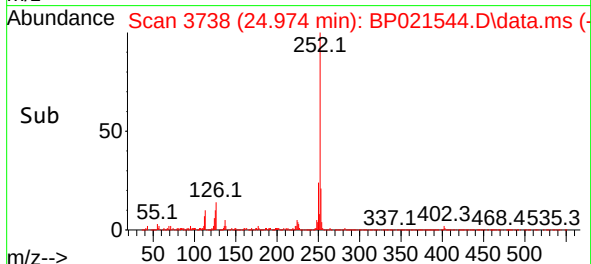
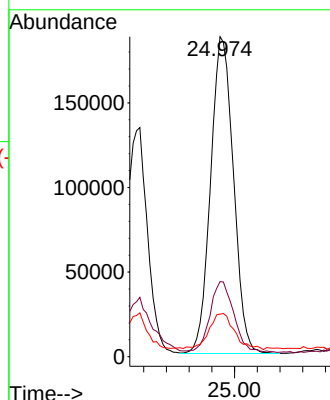
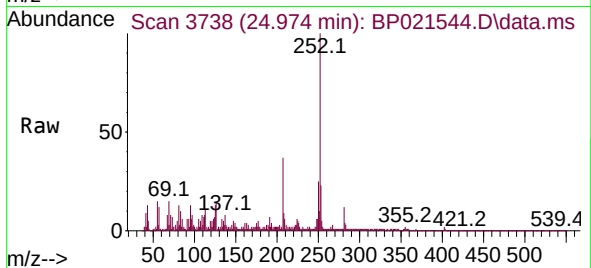
Tgt Ion:	252	Resp:	52231
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.7	26.5
125	13.3	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/17/2024

Supervised By :mohammad ahmed 08/17/2024



#92

Benzo(g,h,i)perylene

Concen: 3.216 ng

RT: 30.250 min Scan# 4635

Delta R.T. 0.076 min

Lab File: BP021544.D

Acq: 16 Aug 2024 18:05

Tgt Ion:	276	Resp:	364385
Ion Ratio	Lower	Upper	
276	100		
277	26.0	19.0	28.6
138	20.5	16.0	24.0

