

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082225\
 Data File : BP025548.D
 Acq On : 22 Aug 2025 14:13
 Operator : CG/JU
 Sample : Q2832-03 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TG-S02

Quant Time: Aug 22 14:40:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 14 18:14:31 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/25/2025
 Supervised By :Jagrut Upadhyay 08/25/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.778	152	182769	20.000	ng	-0.02
21) Naphthalene-d8	10.549	136	732501	20.000	ng	-0.01
39) Acenaphthene-d10	14.401	164	473220	20.000	ng	0.00
64) Phenanthrene-d10	17.190	188	960991	20.000	ng	-0.01
76) Chrysene-d12	21.619	240	1021547	20.000	ng	-0.03
86) Perylene-d12	24.971	264	1175388	20.000	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.396	112	147398	13.393	ng	-0.01
7) Phenol-d6	6.961	99	191461	13.569	ng	0.00
23) Nitrobenzene-d5	8.919	82	120560	8.326	ng	-0.02
42) 2,4,6-Tribromophenol	15.907	330	81967	12.869	ng	0.00
45) 2-Fluorobiphenyl	13.007	172	298861	8.631	ng	-0.01
79) Terphenyl-d14	19.907	244	525306	9.408	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.231	178	406127	7.693	ng	99
72) Anthracene	17.331	178	118085	2.190	ng	97
75) Fluoranthene	19.307	202	753171	11.961	ng	99
78) Pyrene	19.684	202	754315	11.361	ng	99
81) Benzo(a)anthracene	21.601	228	417814	6.202	ng	99
83) Chrysene	21.666	228	401927	6.370	ng	98
87) Indeno(1,2,3-cd)pyrene	28.783	276	247746	2.874	ng	# 92
88) Benzo(b)fluoranthene	23.930	252	495112	7.144	ng	# 97
89) Benzo(k)fluoranthene	23.983	252	195291m	2.816	ng	
90) Benzo(a)pyrene	24.824	252	355781	5.273	ng	96
92) Benzo(g,h,i)perylene	29.959	276	239889	3.464	ng	97

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

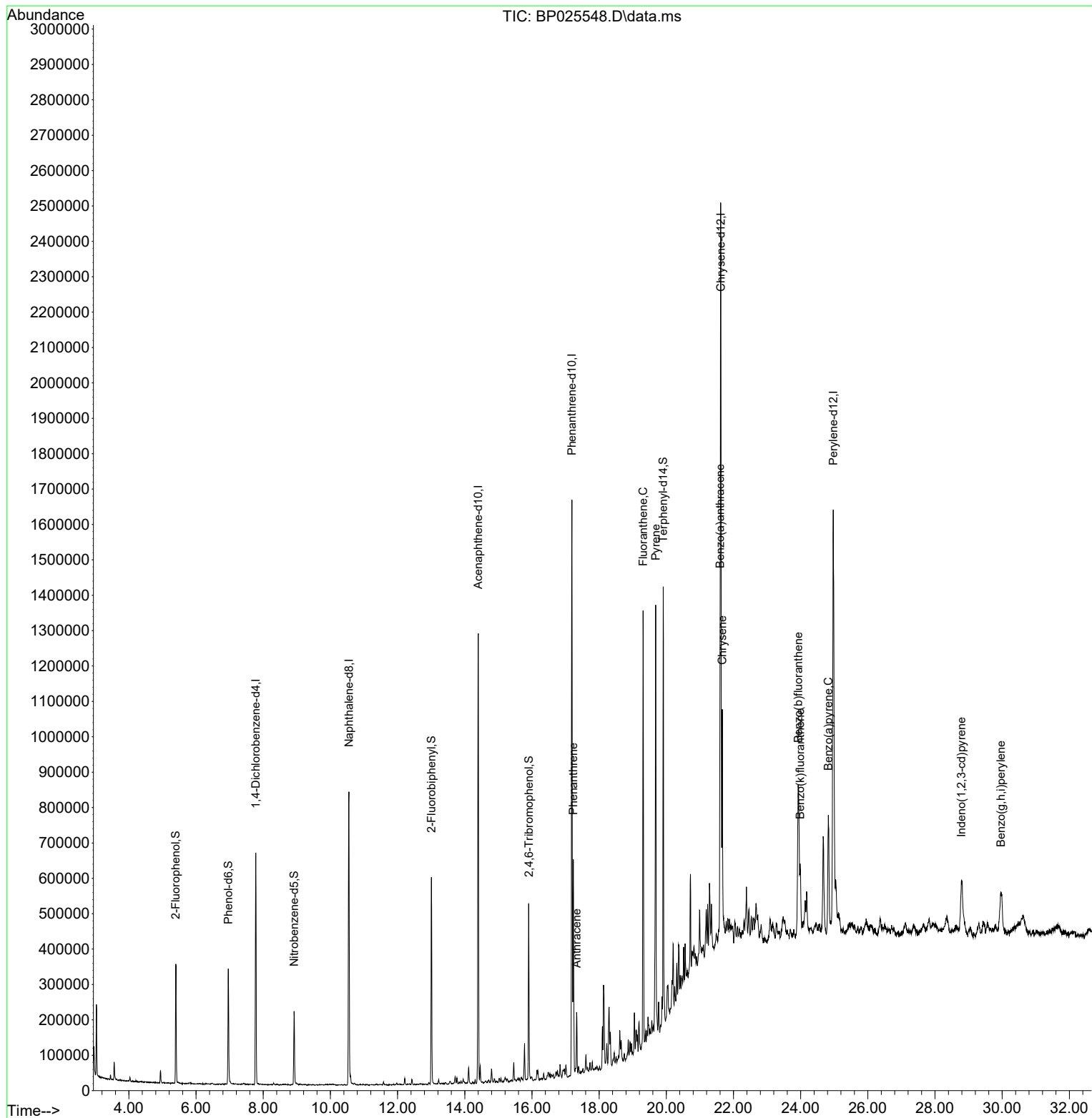
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082225\
Data File : BP025548.D
Acq On : 22 Aug 2025 14:13
Operator : CG/JU
Sample : Q2832-03 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

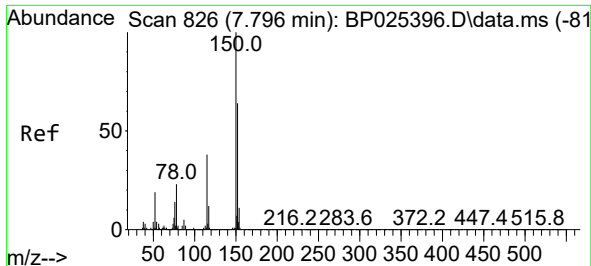
Instrument :
BNA_P
ClientSampleId :
TG-S02

Quant Time: Aug 22 14:40:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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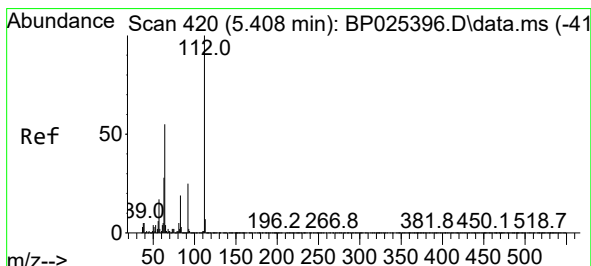
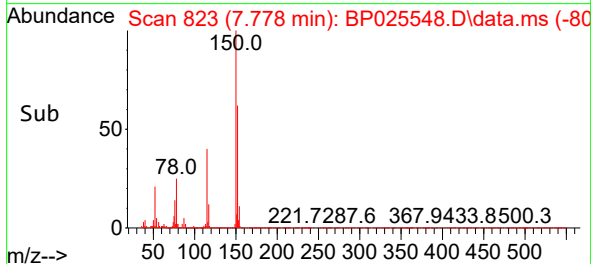
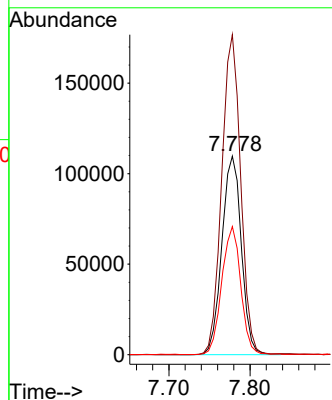
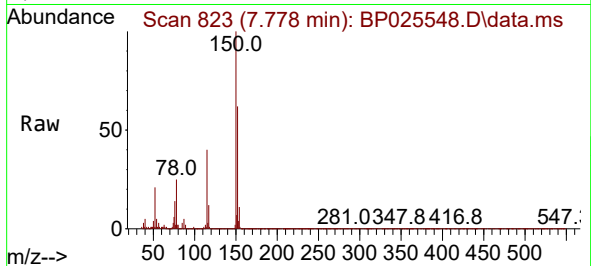
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.778 min Scan# 81
Delta R.T. -0.018 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

Instrument :
BNA_P
ClientSampleId :
TG-S02

Tgt Ion:152 Resp: 182769
Ion Ratio Lower Upper
152 100
150 161.2 125.9 188.9
115 64.6 48.5 72.7

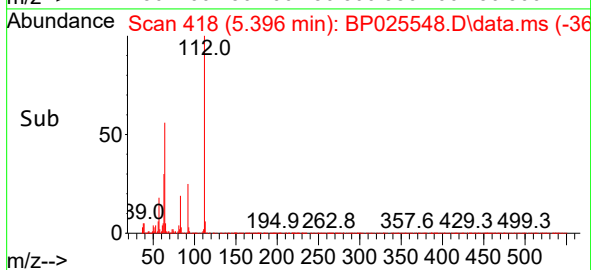
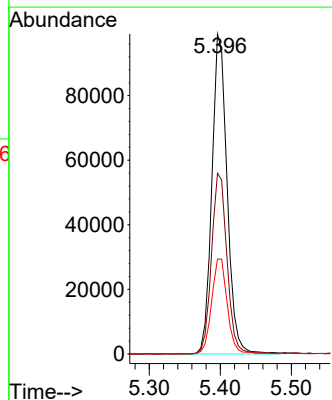
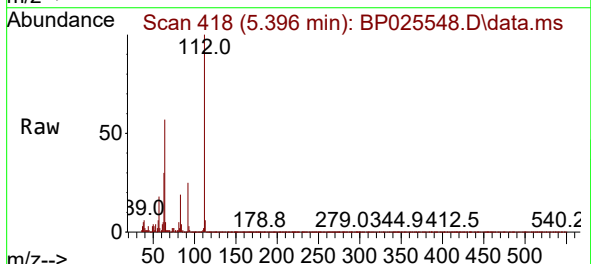
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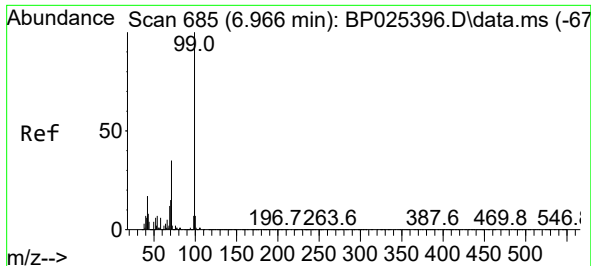
Reviewed By :Rahul Chavli 08/25/2025
Supervised By :Jagrut Upadhyay 08/25/2025



#5
2-Fluorophenol
Concen: 13.393 ng
RT: 5.396 min Scan# 418
Delta R.T. -0.012 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

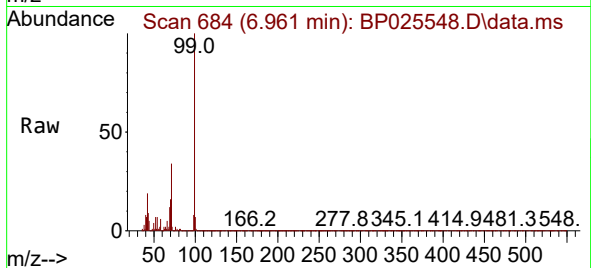
Tgt Ion:112 Resp: 147398
Ion Ratio Lower Upper
112 100
64 56.5 43.8 65.8
63 29.6 22.7 34.1





#7
Phenol-d6
Concen: 13.569 ng
RT: 6.961 min Scan# 684
Delta R.T. -0.006 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

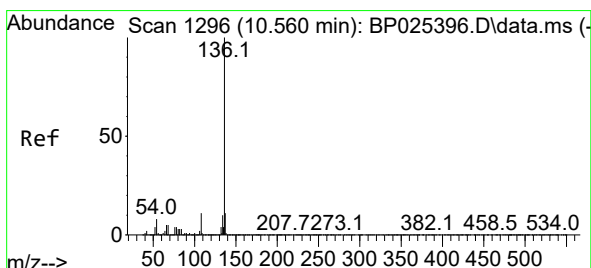
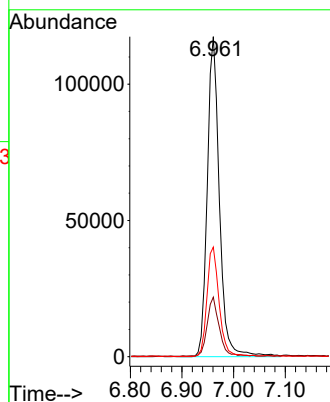
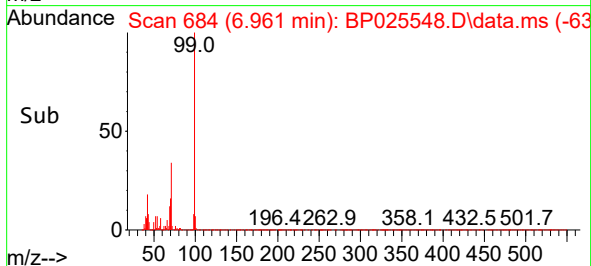
Instrument :
BNA_P
ClientSampleId :
TG-S02



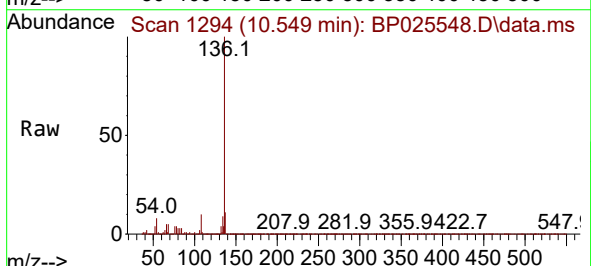
Tgt Ion: 99 Resp: 19146
Ion Ratio Lower Upper
99 100
42 18.6 13.7 20.5
71 34.3 28.2 42.4

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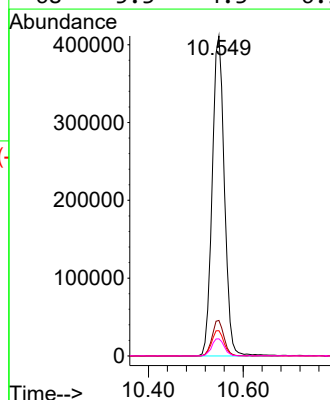
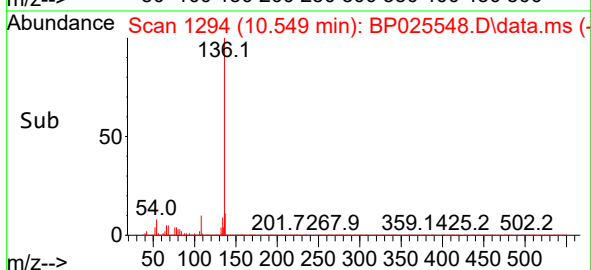
Reviewed By :Rahul Chavli 08/25/2025
Supervised By :Jagrut Upadhyay 08/25/2025

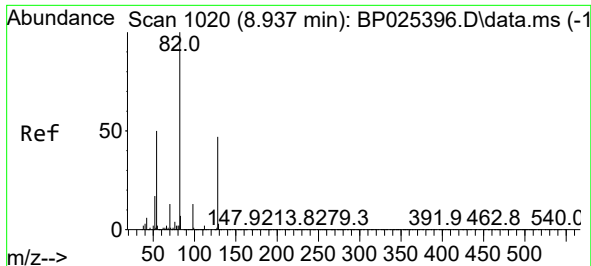


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.549 min Scan# 1294
Delta R.T. -0.012 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13



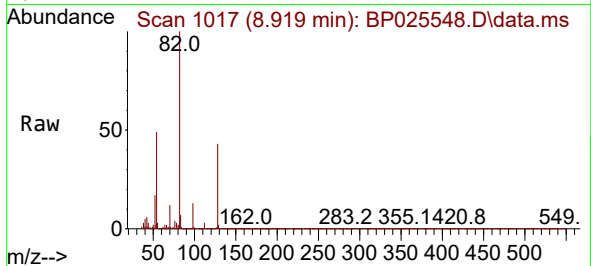
Tgt Ion:136 Resp: 732501
Ion Ratio Lower Upper
136 100
137 11.1 9.2 13.8
54 7.9 6.0 9.0
68 5.3 4.3 6.5





#23
Nitrobenzene-d5
Concen: 8.326 ng
RT: 8.919 min Scan# 1020
Delta R.T. -0.017 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

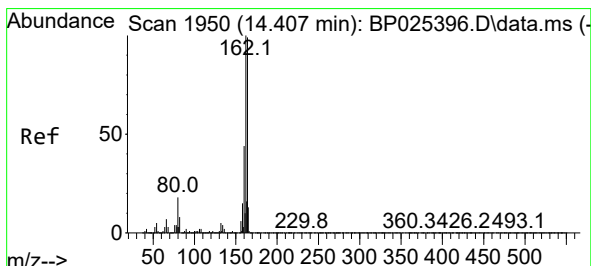
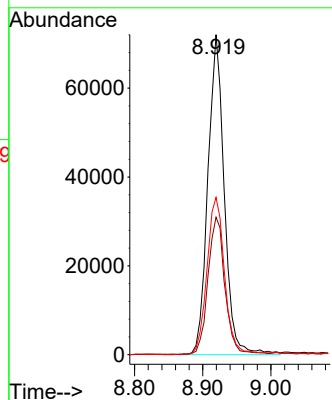
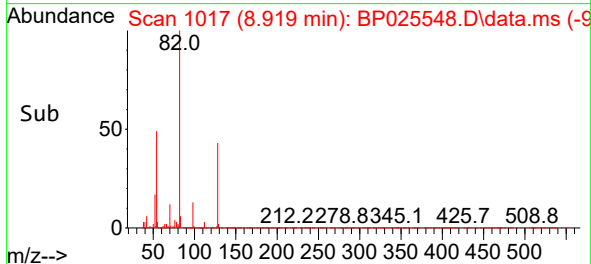
Instrument :
BNA_P
ClientSampleId :
TG-S02



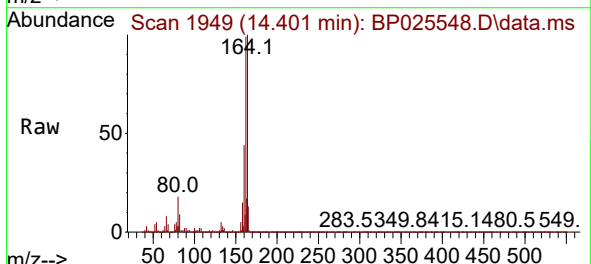
Tgt Ion: 82 Resp: 120560
Ion Ratio Lower Upper
82 100
128 43.0 37.7 56.5
54 49.1 39.8 59.6

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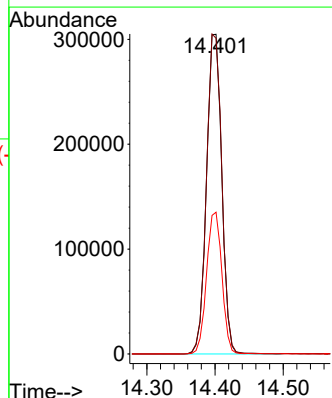
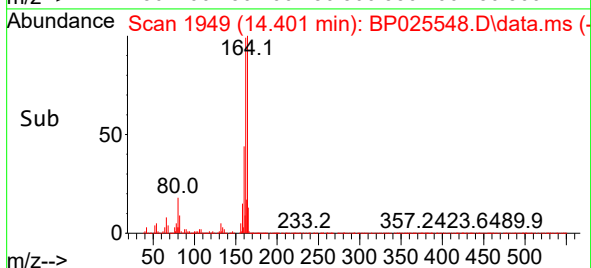
Reviewed By :Rahul Chavli 08/25/2025
Supervised By :Jagrut Upadhyay 08/25/2025

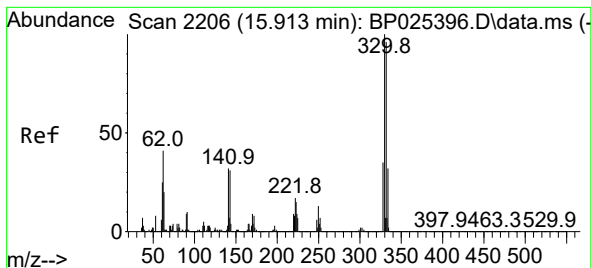


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13



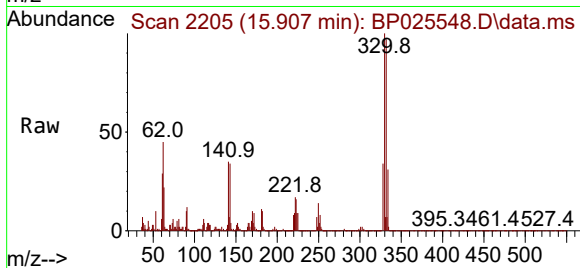
Tgt Ion:164 Resp: 473220
Ion Ratio Lower Upper
164 100
162 98.7 81.0 121.6
160 44.3 35.4 53.2





#42
2,4,6-Tribromophenol
Concen: 12.869 ng
RT: 15.907 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

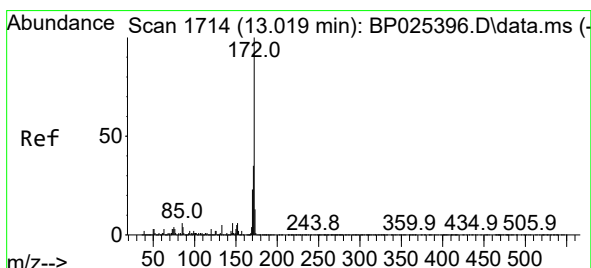
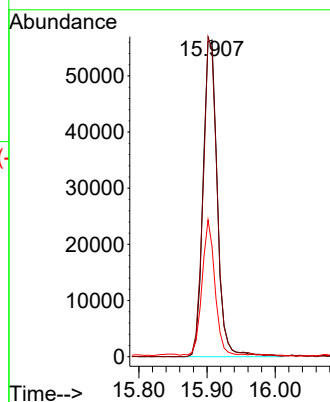
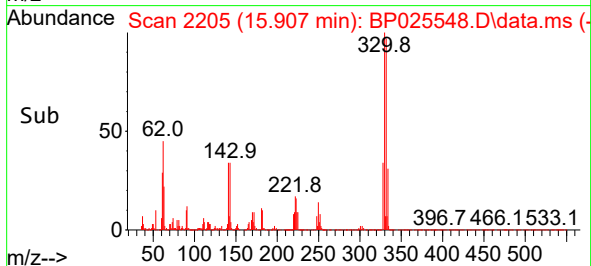
Instrument :
BNA_P
ClientSampleId :
TG-S02



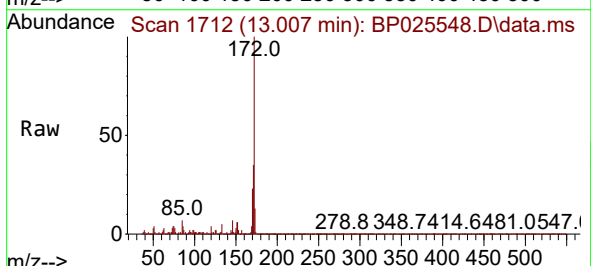
Tgt Ion:330 Resp: 8196
Ion Ratio Lower Upper
330 100
332 99.7 77.3 115.9
141 38.5 26.6 39.8

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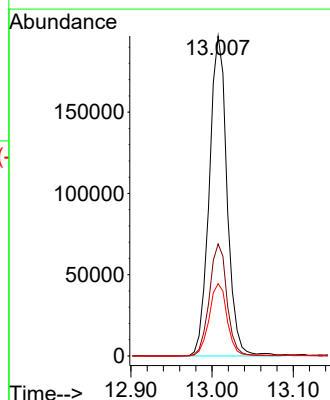
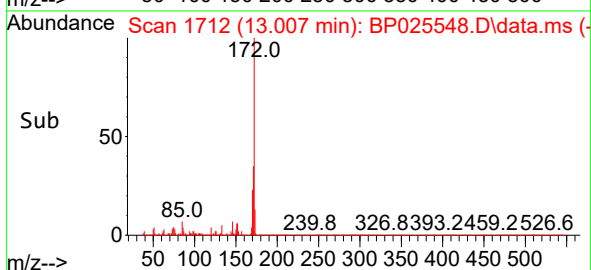
Reviewed By :Rahul Chavli 08/25/2025
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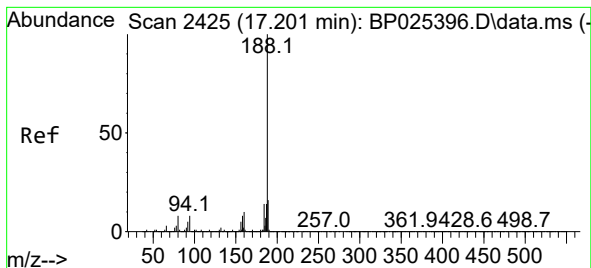


#45
2-Fluorobiphenyl
Concen: 8.631 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13



Tgt Ion:172 Resp: 298861
Ion Ratio Lower Upper
172 100
171 35.0 28.1 42.1
170 22.6 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.190 min Scan# 2425

Delta R.T. -0.012 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Instrument :

BNA_P

ClientSampleId :

TG-S02

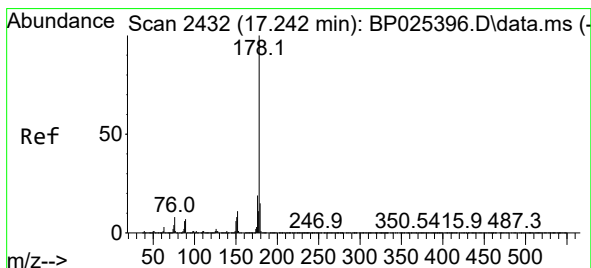
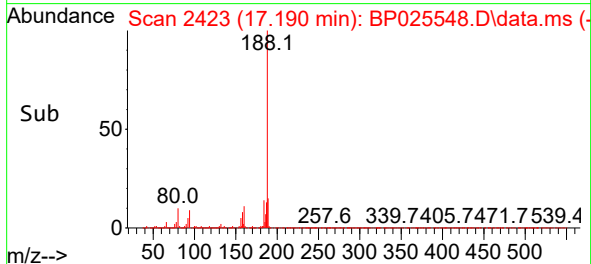
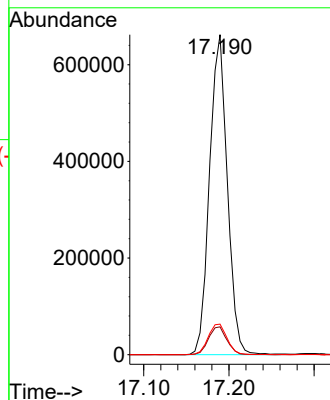
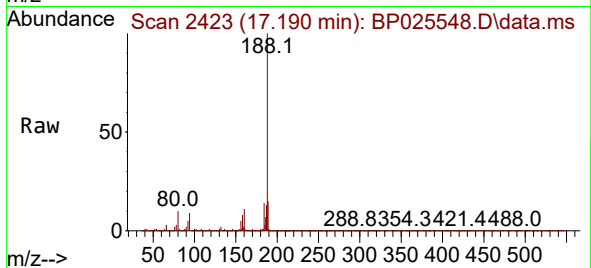
Tgt Ion:188 Resp: 96099
 Ion Ratio Lower Upper
 188 100
 94 8.7 6.6 10.0
 80 9.5 6.7 10.1

Manual Integrations

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#71

Phenanthrene

Concen: 7.693 ng

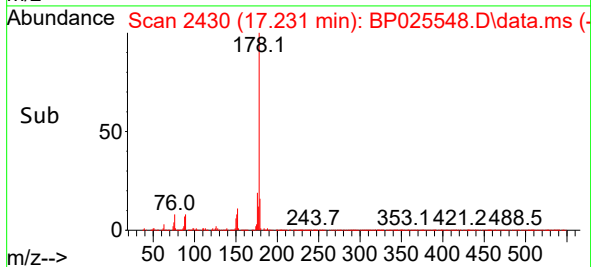
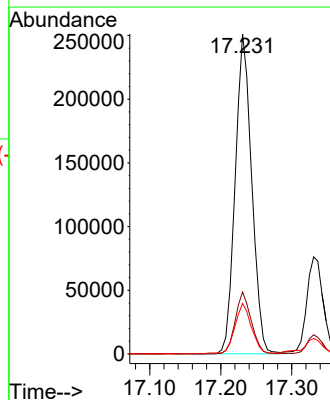
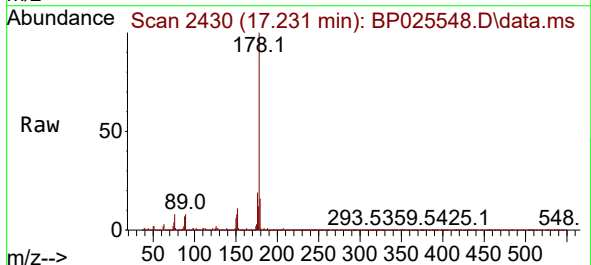
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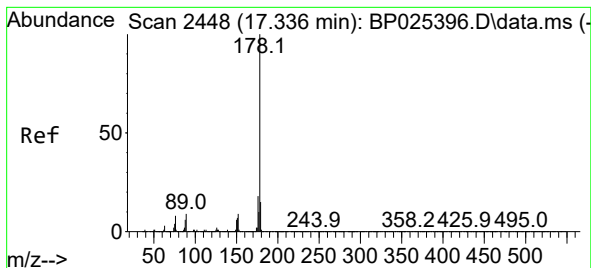
Delta R.T. -0.012 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Tgt Ion:178 Resp: 406127
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.5 23.3
 179 15.8 12.2 18.4





#72

Anthracene

Concen: 2.190 ng

RT: 17.331 min Scan# 2448

Delta R.T. -0.006 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Instrument :

BNA_P

ClientSampleId :

TG-S02

Tgt Ion:178 Resp: 118085

Ion Ratio Lower Upper

178 100

176 19.8 14.7 22.1

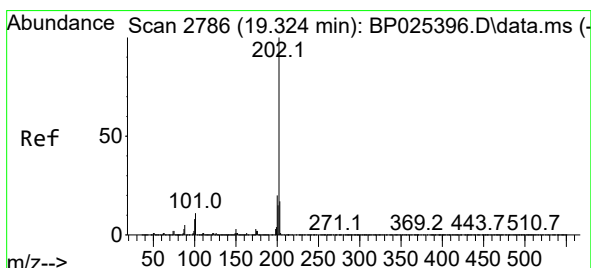
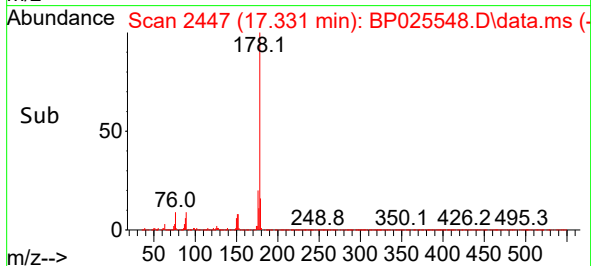
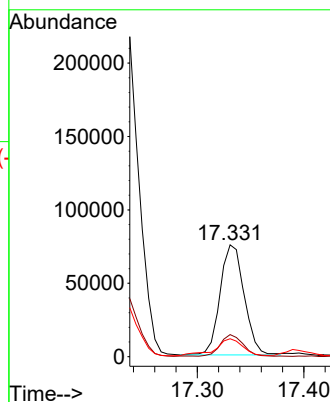
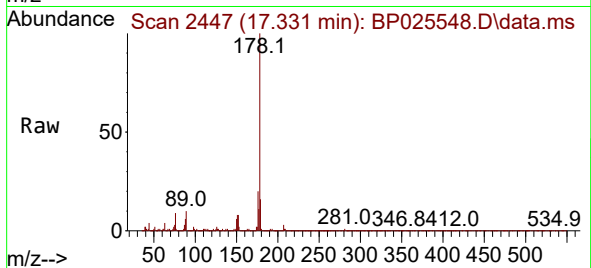
179 16.1 12.2 18.2

Manual Integrations

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#75

Fluoranthene

Concen: 11.961 ng

RT: 19.307 min Scan# 2783

Delta R.T. -0.017 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

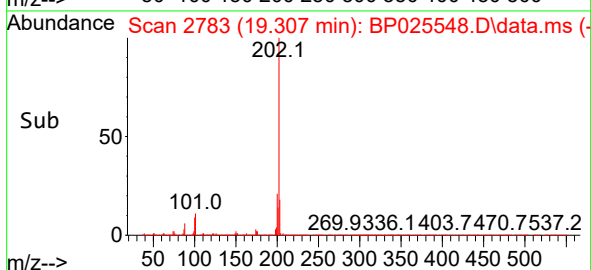
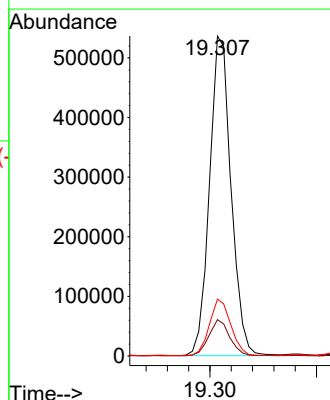
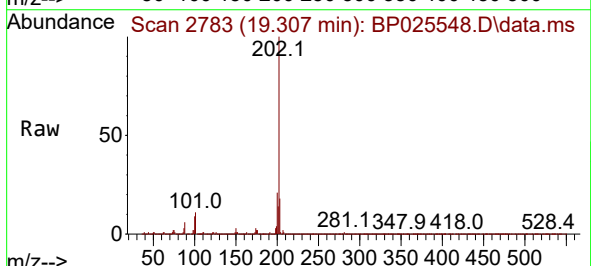
Tgt Ion:202 Resp: 753171

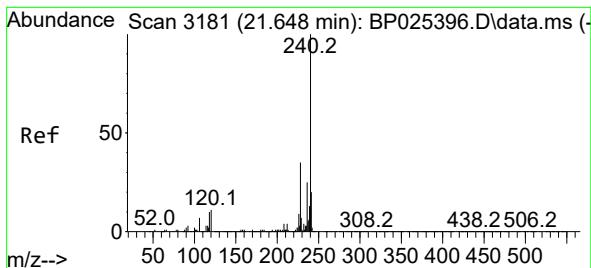
Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.1

203 17.8 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.619 min Scan# 31

Delta R.T. -0.029 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Instrument :

BNA_P

ClientSampleId :

TG-S02

Tgt Ion:240 Resp: 102154

Ion Ratio Lower Upper

240 100

120 10.4 8.9 13.3

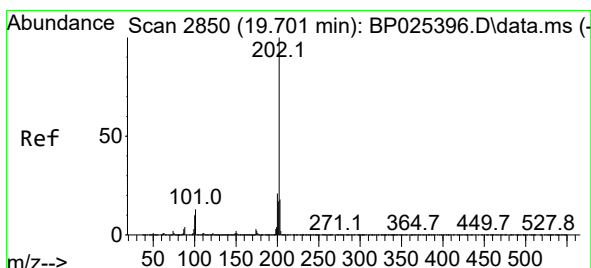
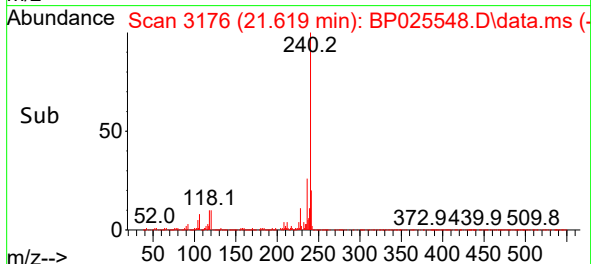
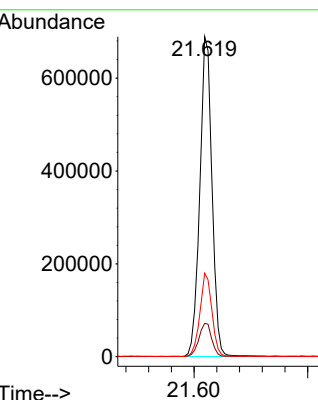
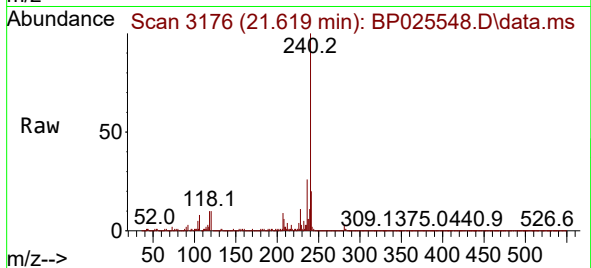
236 26.1 19.8 29.8

Manual Integrations

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#78

Pyrene

Concen: 11.361 ng

RT: 19.684 min Scan# 2847

Delta R.T. -0.017 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

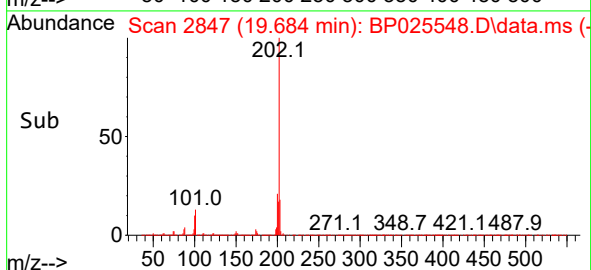
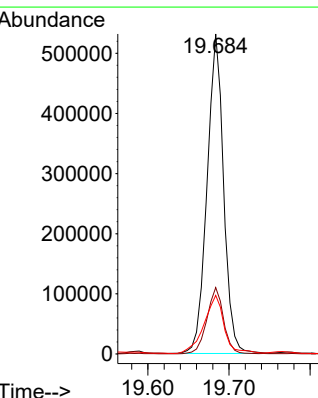
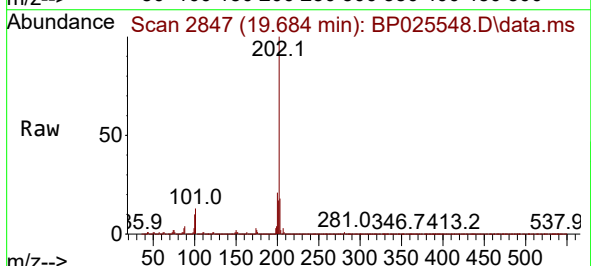
Tgt Ion:202 Resp: 754315

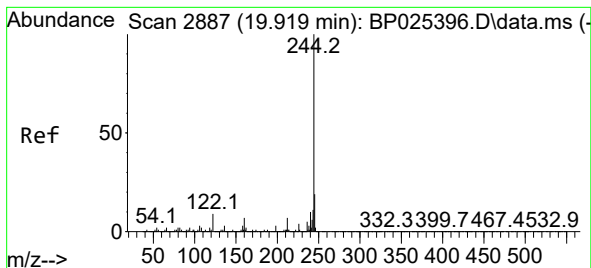
Ion Ratio Lower Upper

202 100

200 20.8 16.9 25.3

203 18.3 14.2 21.2





#79

Terphenyl-d14

Concen: 9.408 ng

RT: 19.907 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Instrument :

BNA_P

ClientSampleId :

TG-S02

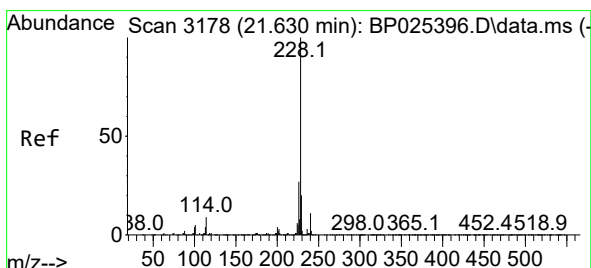
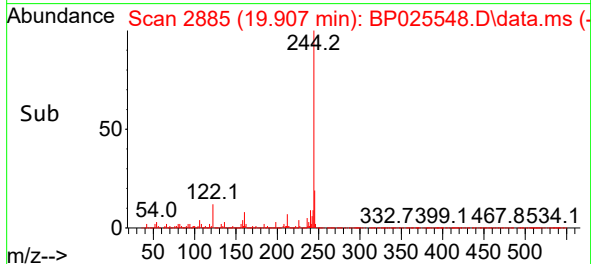
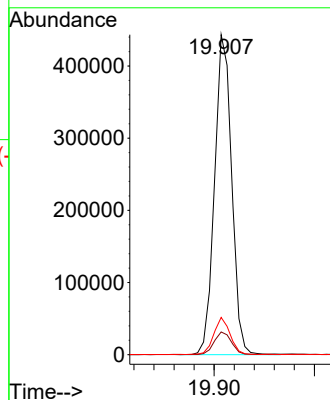
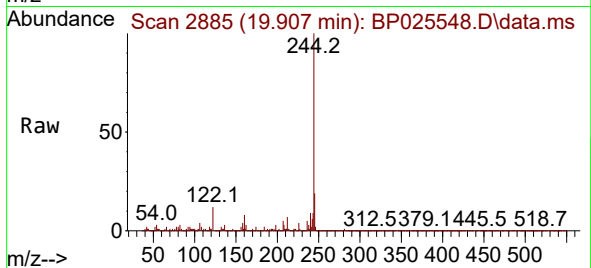
Tgt Ion:244 Resp: 525300
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.6
 122 11.6 7.4 11.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/25/2025



#81

Benzo(a)anthracene

Concen: 6.202 ng

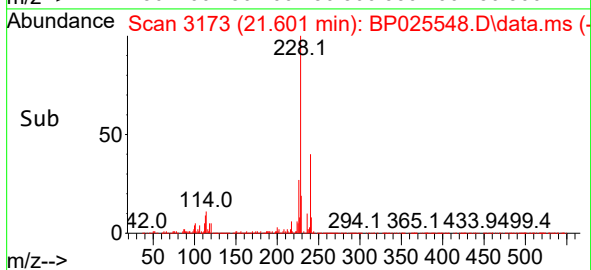
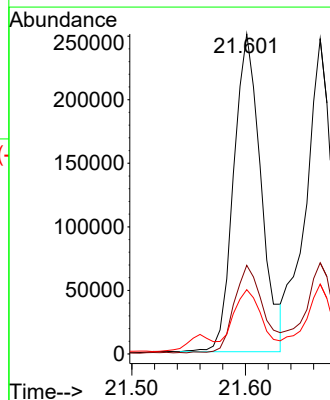
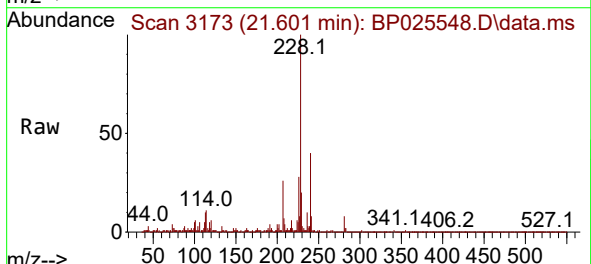
RT: 21.601 min Scan# 3173

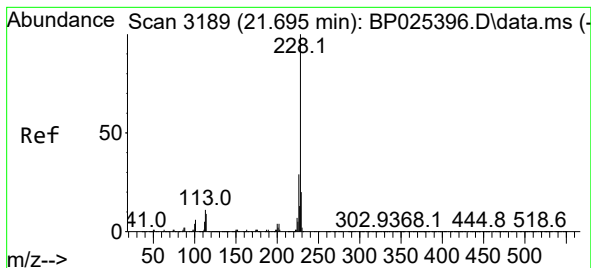
Delta R.T. -0.029 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Tgt Ion:228 Resp: 417814
 Ion Ratio Lower Upper
 228 100
 226 27.7 21.7 32.5
 229 20.1 15.6 23.4





#83

Chrysene

Concen: 6.370 ng

RT: 21.666 min Scan# 31

Delta R.T. -0.029 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Instrument :

BNA_P

ClientSampleId :

TG-S02

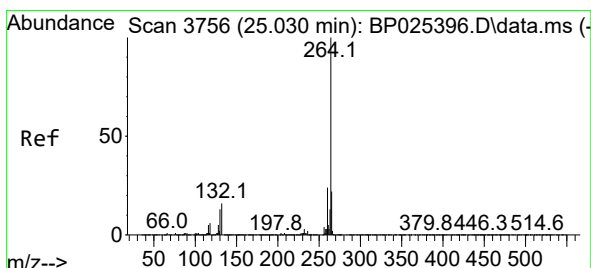
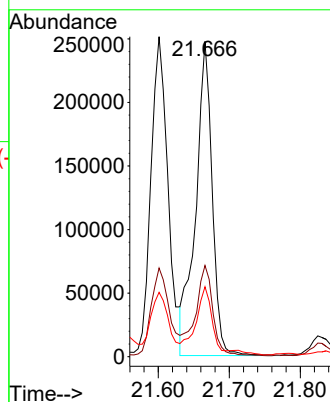
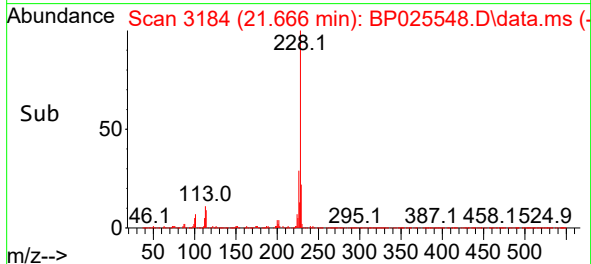
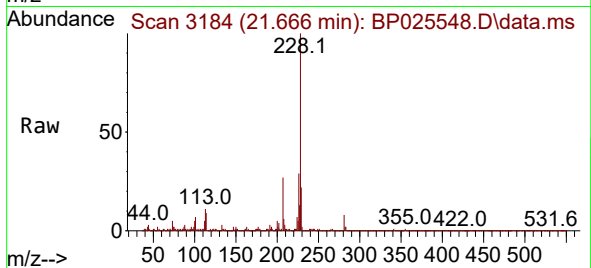
Tgt Ion:228 Resp: 40192
 Ion Ratio Lower Upper
 228 100
 226 29.0 23.2 34.8
 229 22.2 15.6 23.4

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Supervised By :Jagrut Upadhyay 08/25/2025



#86

Perylene-d12

Concen: 20.000 ng

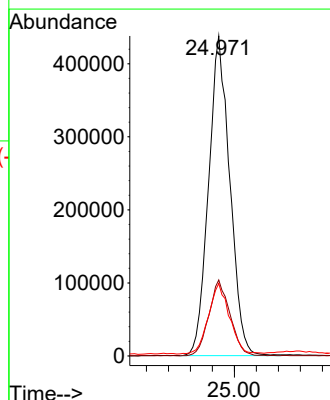
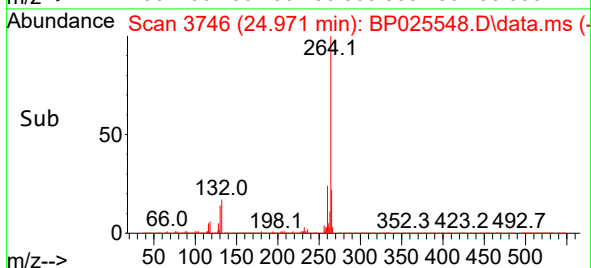
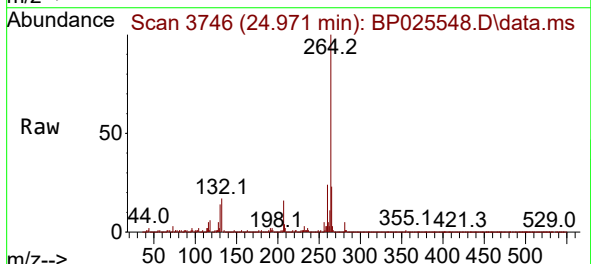
RT: 24.971 min Scan# 3746

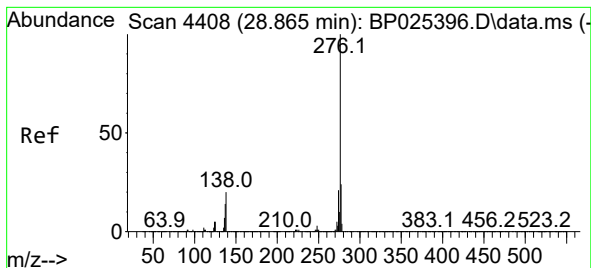
Delta R.T. -0.059 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Tgt Ion:264 Resp: 1175388
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.3 28.9
 265 22.7 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.874 ng

RT: 28.783 min Scan# 41

Delta R.T. -0.082 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

Instrument :

BNA_P

ClientSampleId :

TG-S02

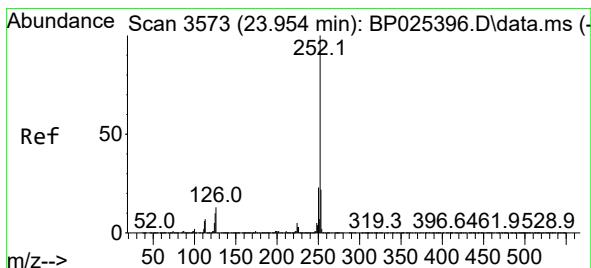
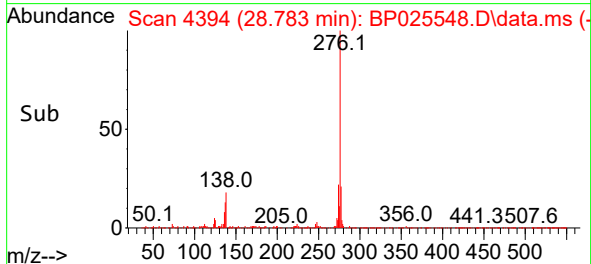
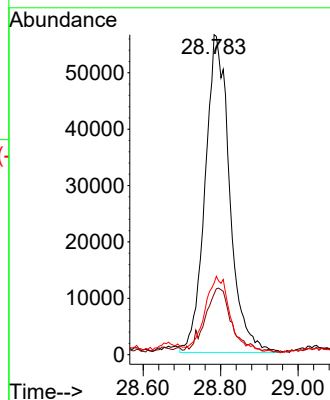
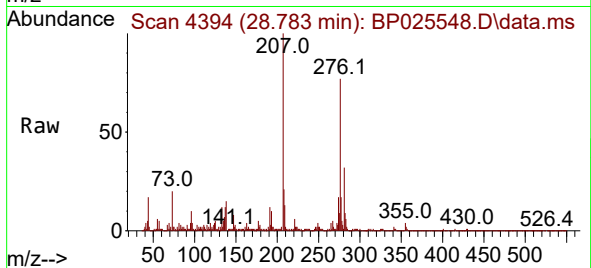
Tgt Ion:276 Resp: 247740
 Ion Ratio Lower Upper
 276 100
 138 20.7 12.9 19.3
 277 23.8 17.0 25.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/25/2025



#88

Benzo(b)fluoranthene

Concen: 7.144 ng

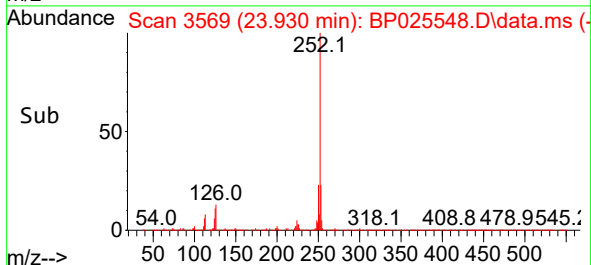
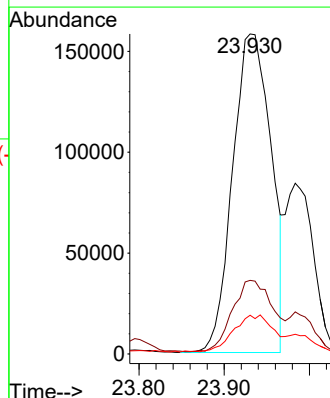
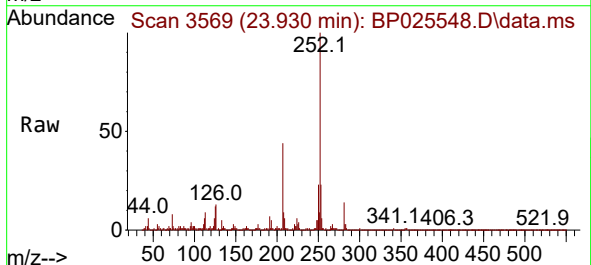
RT: 23.930 min Scan# 3569

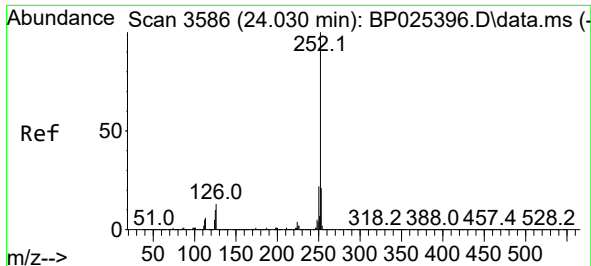
Delta R.T. -0.023 min

Lab File: BP025548.D

Acq: 22 Aug 2025 14:13

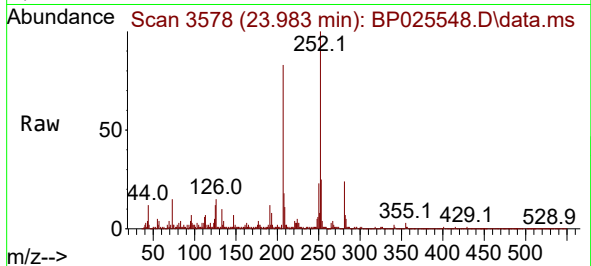
Tgt Ion:252 Resp: 495112
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.7 26.5
 125 12.1 7.9 11.9





#89
Benzo(k)fluoranthene
Concen: 2.816 ng m
RT: 23.983 min Scan# 31
Delta R.T. -0.047 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

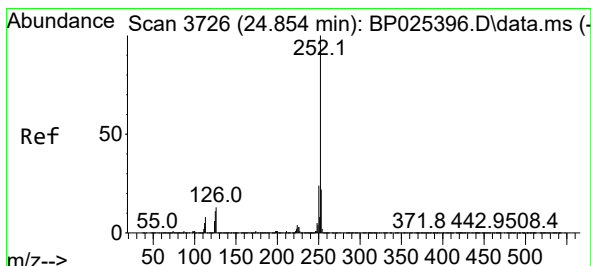
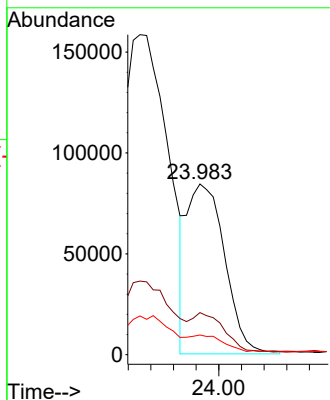
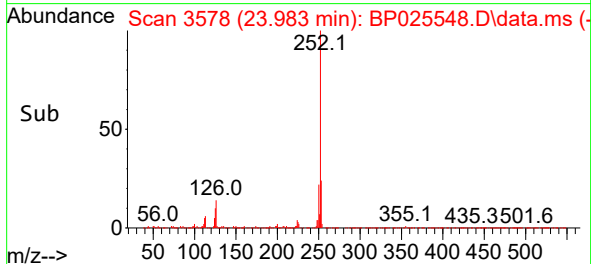
Instrument :
BNA_P
ClientSampleId :
TG-S02



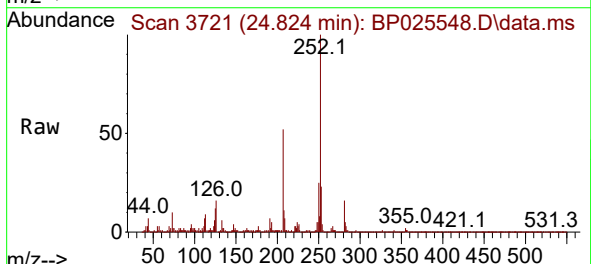
Tgt Ion:252 Resp: 19529
Ion Ratio Lower Upper
252 100
253 24.6 17.1 25.7
125 11.6 7.8 11.6

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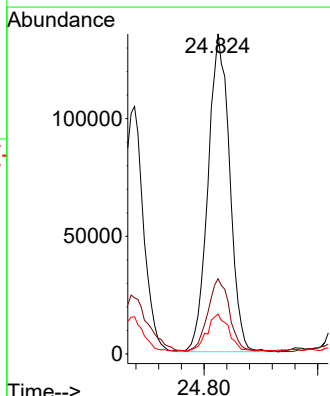
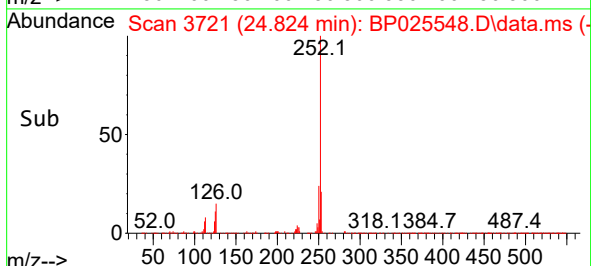
Reviewed By :Rahul Chavli 08/25/2025
Supervised By :Jagrut Upadhyay 08/25/2025

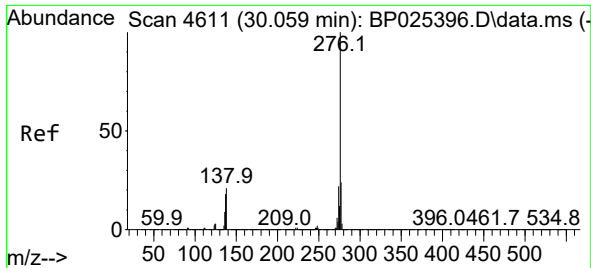


#90
Benzo(a)pyrene
Concen: 5.273 ng
RT: 24.824 min Scan# 3721
Delta R.T. -0.029 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13



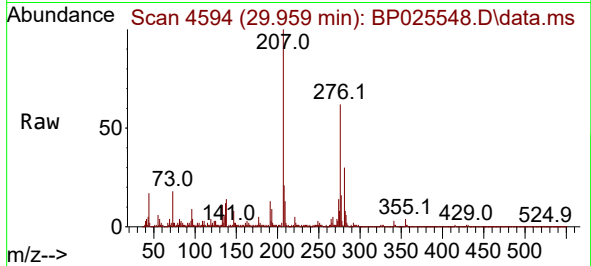
Tgt Ion:252 Resp: 355781
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 12.4 8.7 13.1





#92
Benzo(g,h,i)perylene
Concen: 3.464 ng
RT: 29.959 min Scan# 4594
Delta R.T. -0.100 min
Lab File: BP025548.D
Acq: 22 Aug 2025 14:13

Instrument :
BNA_P
ClientSampleId :
TG-S02



Tgt Ion: 276 Resp: 239889
Ion Ratio Lower Upper
276 100
277 25.0 19.4 29.0
138 22.9 16.7 25.1

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Supervised By :Jagrut Upadhyay 08/25/2025

