

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092425\
 Data File : BP025852.D
 Acq On : 24 Sep 2025 19:31
 Operator : CG/JU
 Sample : Q3159-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 VNJ-255

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/25/2025
 Supervised By :Jagrut Upadhyay 09/25/2025

Quant Time: Sep 25 00:39:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 16:45:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.749	152	140108	20.000	ng	-0.01
21) Naphthalene-d8	10.519	136	580999	20.000	ng	0.00
39) Acenaphthene-d10	14.372	164	415971	20.000	ng	0.00
64) Phenanthrene-d10	17.178	188	932954	20.000	ng	0.00
76) Chrysene-d12	21.619	240	970863	20.000	ng	-0.02
86) Perylene-d12	24.971	264	1048403	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.384	112	847708	97.626	ng	0.00
7) Phenol-d6	6.949	99	1061336	91.958	ng	0.00
23) Nitrobenzene-d5	8.896	82	677805	51.461	ng	0.00
42) 2,4,6-Tribromophenol	15.895	330	543660	104.784	ng	-0.01
45) 2-Fluorobiphenyl	12.978	172	1627621	52.099	ng	-0.01
79) Terphenyl-d14	19.901	244	3135466	58.099	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.937	122	31604m	4.619	ng	
52) Acenaphthene	14.437	154	110599	4.815	ng	97
55) Dibenzofuran	14.784	168	126242	3.372	ng	97
58) Fluorene	15.442	166	216466	7.271	ng	99
71) Phenanthrene	17.219	178	1603761	30.304	ng	99
72) Anthracene	17.319	178	647082	12.051	ng	99
73) Carbazole	17.607	167	199936	4.005	ng	99
75) Fluoranthene	19.307	202	2080851	32.784	ng	100
78) Pyrene	19.683	202	1480903	22.860	ng	98
81) Benzo(a)anthracene	21.601	228	615294	9.257	ng	98
83) Chrysene	21.666	228	778096	12.281	ng	97
87) Indeno(1,2,3-cd)pyrene	28.795	276	229922	3.016	ng	# 79
88) Benzo(b)fluoranthene	23.913	252	891775	13.910	ng	98
89) Benzo(k)fluoranthene	23.971	252	276260m	4.223	ng	
90) Benzo(a)pyrene	24.813	252	376127	5.991	ng	97
92) Benzo(g,h,i)perylene	29.983	276	200520	3.268	ng	95

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

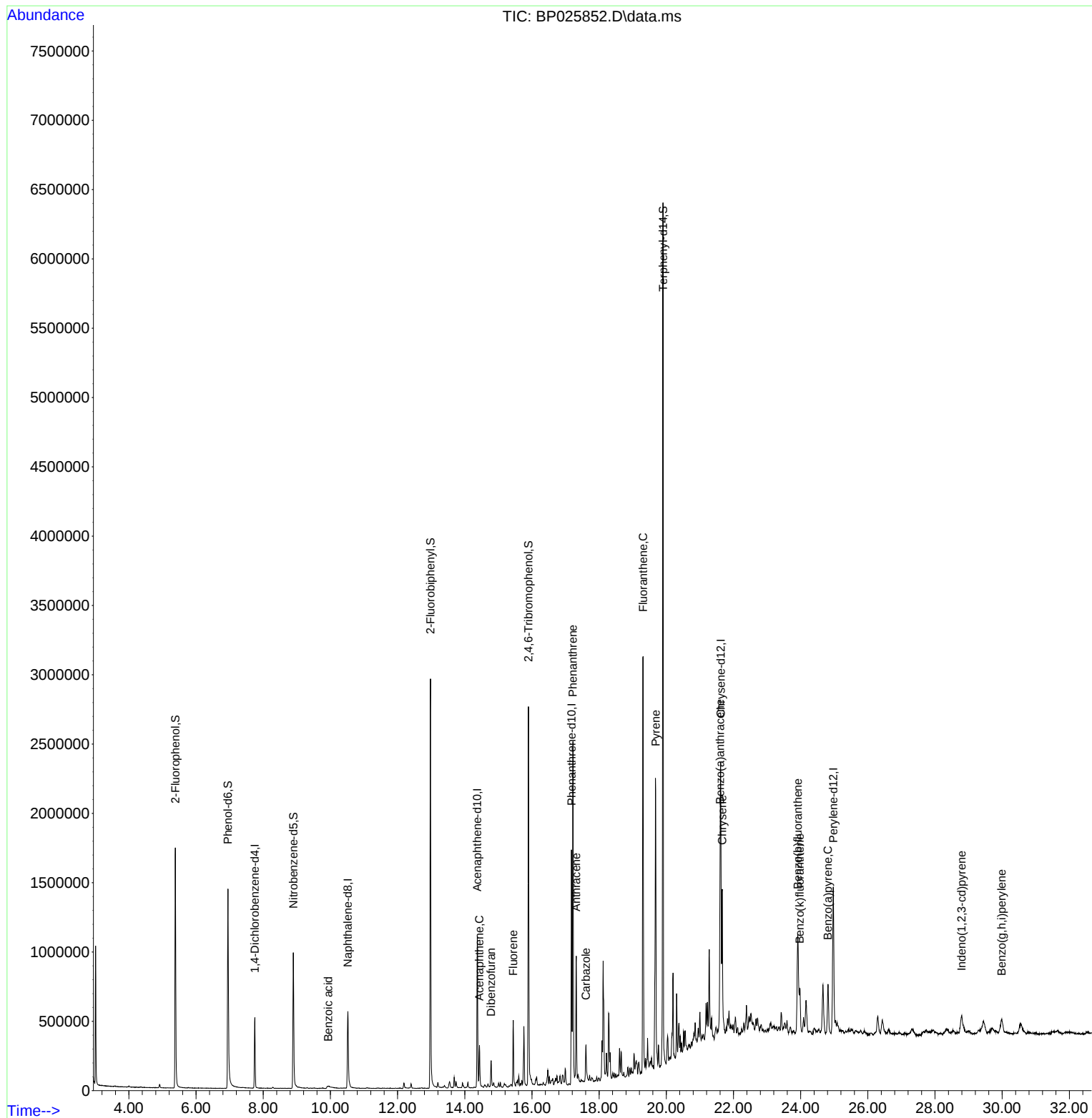
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092425\
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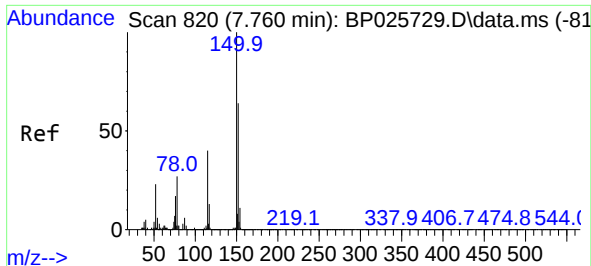
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
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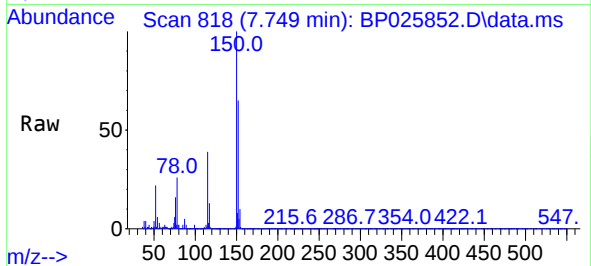
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.749 min Scan# 81
Delta R.T. -0.011 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

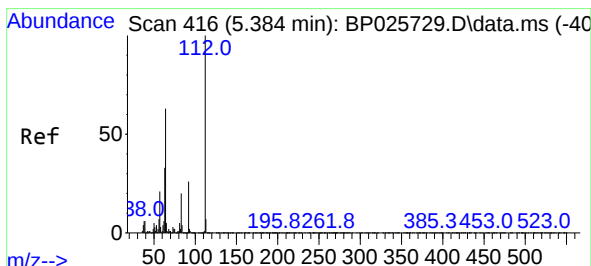
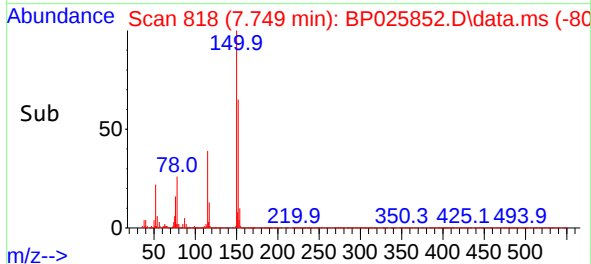
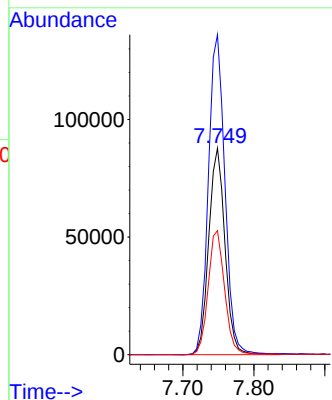
Instrument :
BNA_P
ClientSampleId :
VNJ-255



Tgt Ion:152 Resp: 140108
Ion Ratio Lower Upper
152 100
150 154.9 124.3 186.5
115 60.0 50.3 75.5

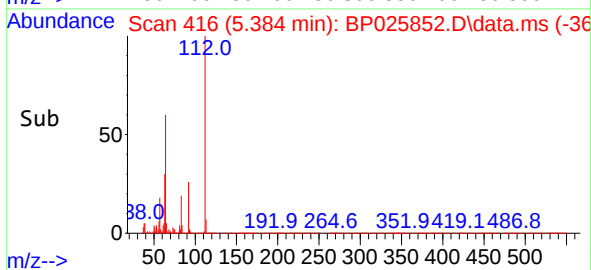
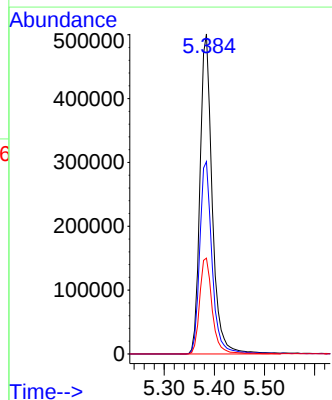
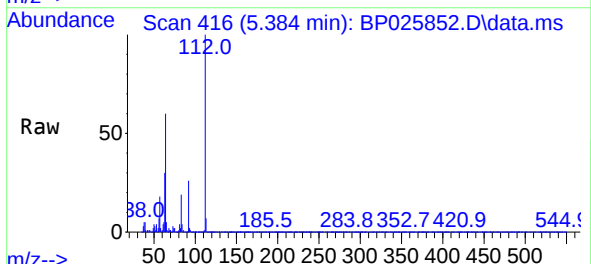
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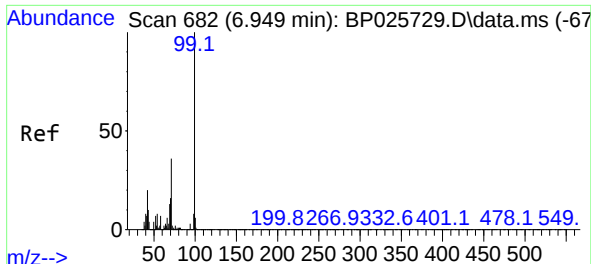
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#5
2-Fluorophenol
Concen: 97.626 ng
RT: 5.384 min Scan# 416
Delta R.T. 0.000 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

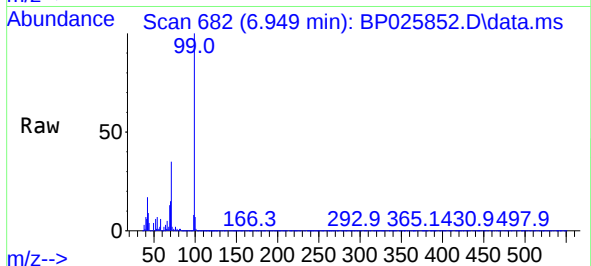
Tgt Ion:112 Resp: 847708
Ion Ratio Lower Upper
112 100
64 60.1 50.2 75.4
63 30.0 26.7 40.1





#7
Phenol-d6
Concen: 91.958 ng
RT: 6.949 min Scan# 682
Delta R.T. 0.000 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

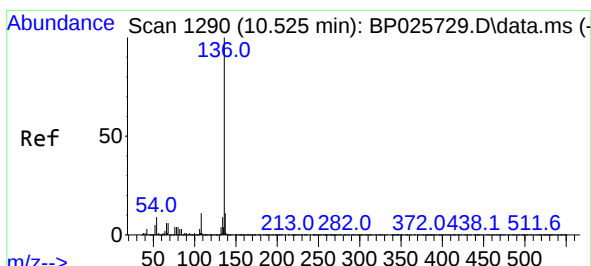
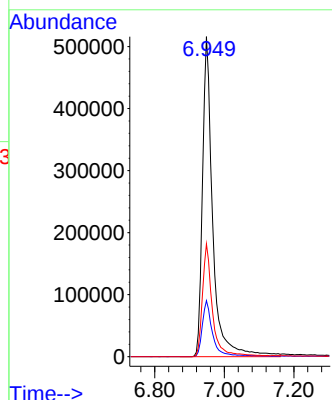
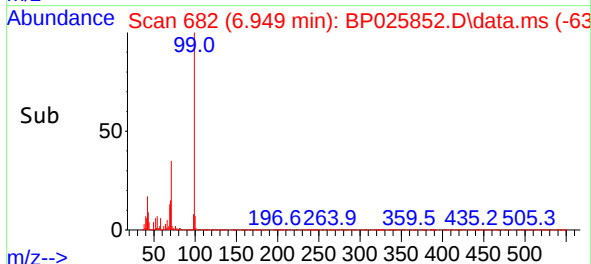
Instrument :
BNA_P
ClientSampleId :
VNJ-255



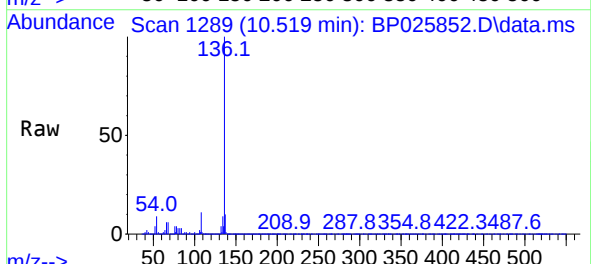
Tgt Ion: 99 Resp: 1061330
Ion Ratio Lower Upper
99 100
42 17.5 15.6 23.4
71 35.3 28.6 43.0

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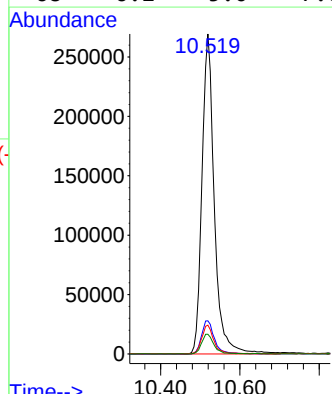
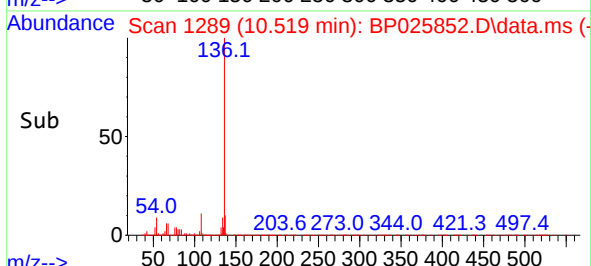
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025

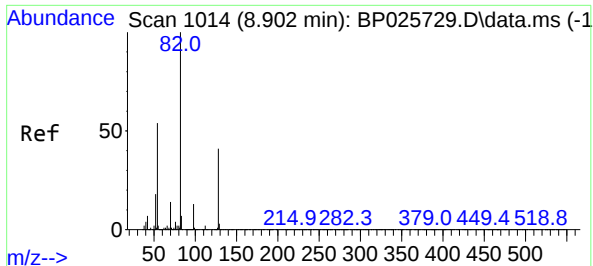


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.519 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31



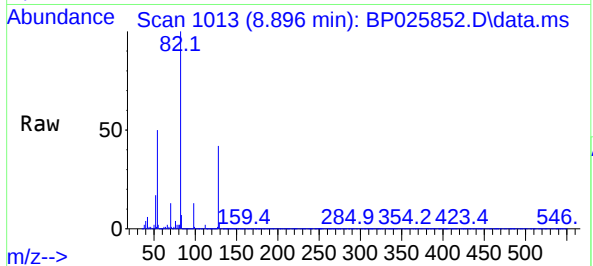
Tgt Ion:136 Resp: 580999
Ion Ratio Lower Upper
136 100
137 10.3 8.7 13.1
54 9.0 7.5 11.3
68 6.2 5.0 7.6





#23
Nitrobenzene-d5
Concen: 51.461 ng
RT: 8.896 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

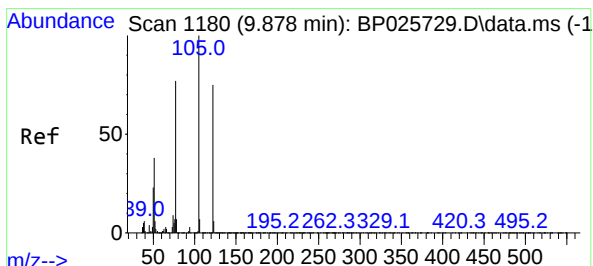
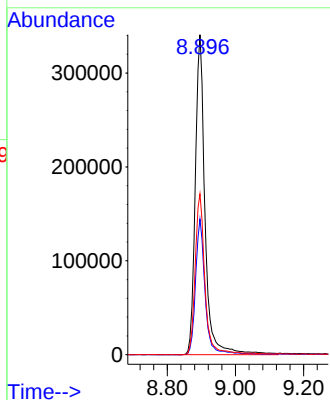
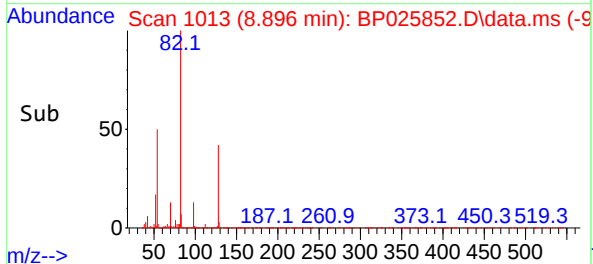
Instrument :
BNA_P
ClientSampleId :
VNJ-255



Tgt Ion: 82 Resp: 67780
Ion Ratio Lower Upper
82 100
128 42.4 32.9 49.3
54 50.2 43.4 65.2

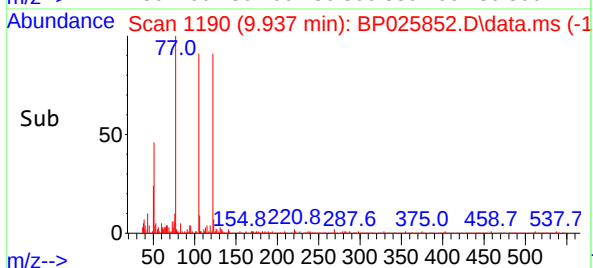
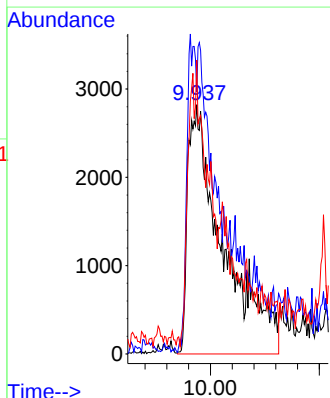
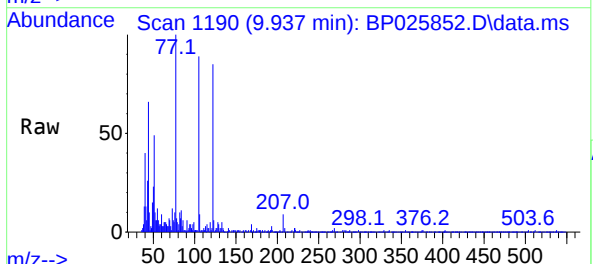
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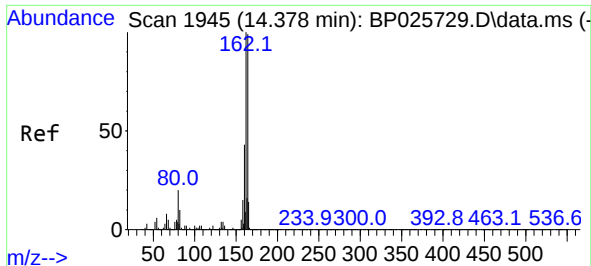
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#32
Benzoic acid
Concen: 4.619 ng m
RT: 9.937 min Scan# 1190
Delta R.T. 0.059 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

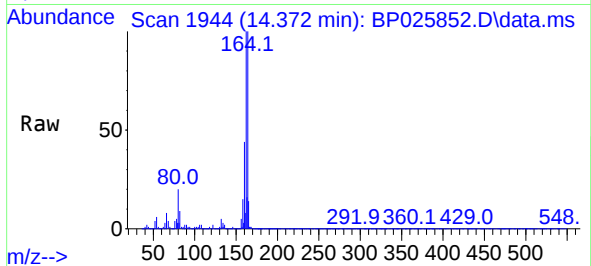
Tgt Ion:122 Resp: 31604
Ion Ratio Lower Upper
122 100
105 105.1 111.5 151.5#
77 117.8 81.8 121.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.372 min Scan# 1945
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

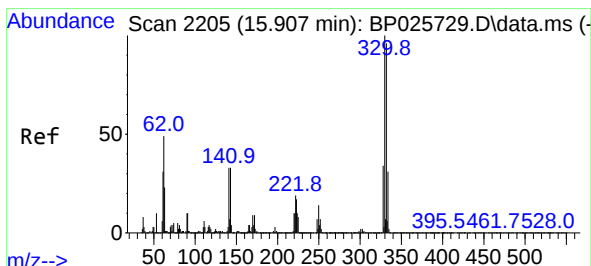
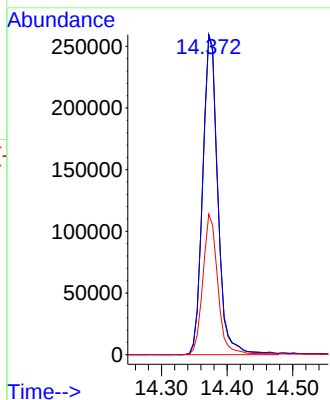
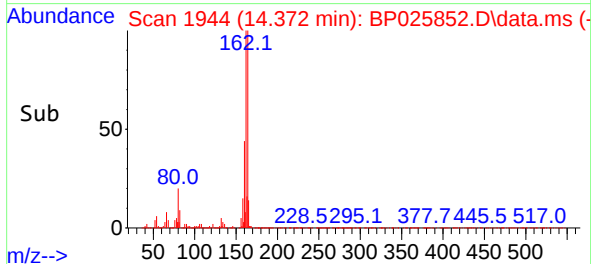
Instrument :
BNA_P
ClientSampleId :
VNJ-255



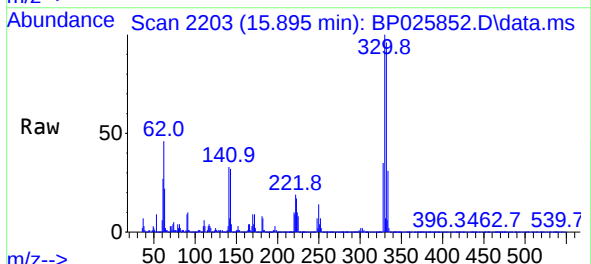
Tgt Ion:164 Resp: 41597
Ion Ratio Lower Upper
164 100
162 100.1 80.6 120.8
160 43.9 35.0 52.6

Manual Integrations
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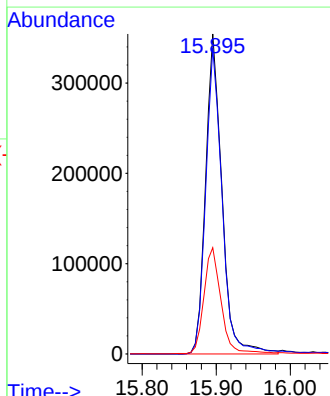
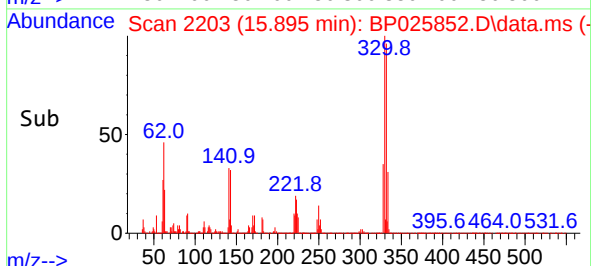
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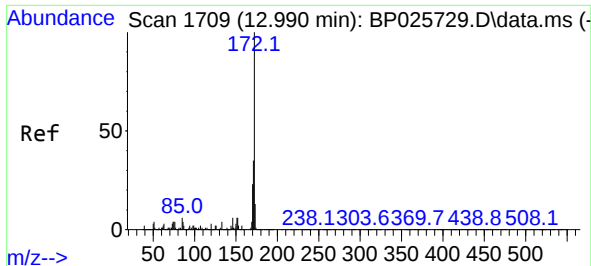


#42
2,4,6-Tribromophenol
Concen: 104.784 ng
RT: 15.895 min Scan# 2203
Delta R.T. -0.012 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31



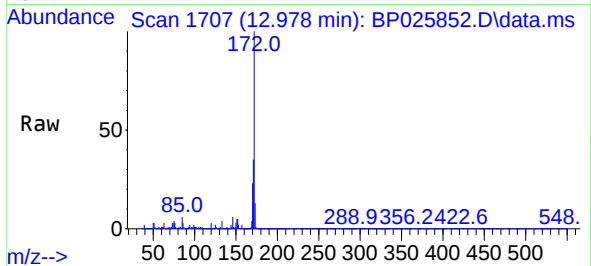
Tgt Ion:330 Resp: 543660
Ion Ratio Lower Upper
330 100
332 96.4 76.9 115.3
141 35.1 31.0 46.4





#45
2-Fluorobiphenyl
Concen: 52.099 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

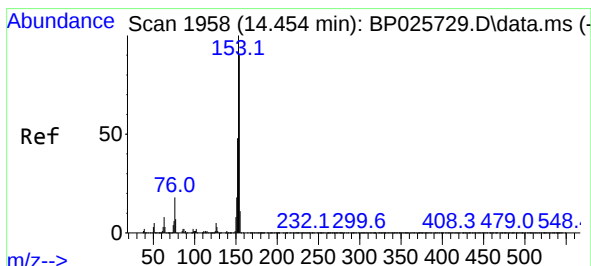
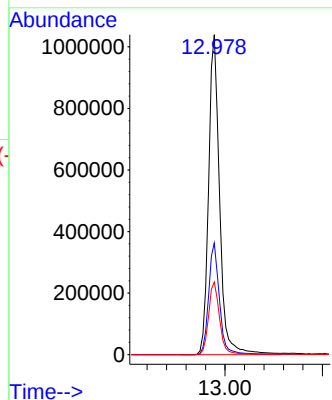
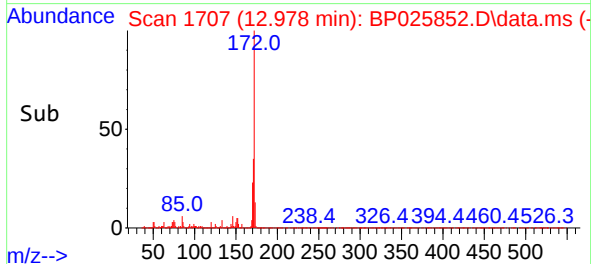
Instrument :
BNA_P
ClientSampleId :
VNJ-255



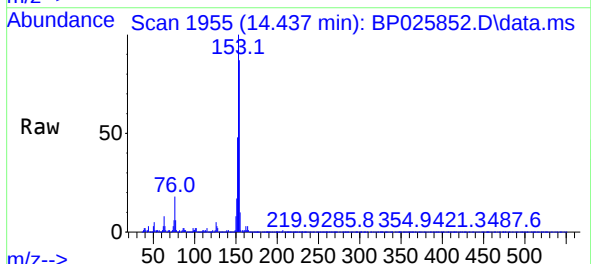
Tgt Ion:172 Resp: 162762
Ion Ratio Lower Upper
172 100
171 34.9 27.8 41.6
170 22.7 18.6 27.8

Manual Integrations
APPROVED

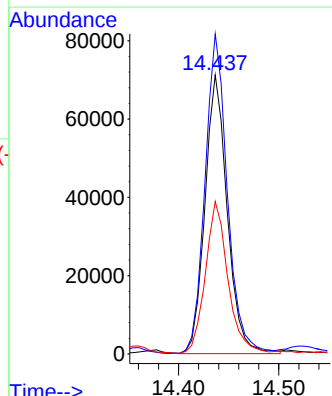
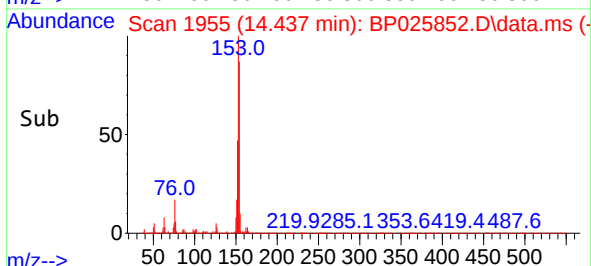
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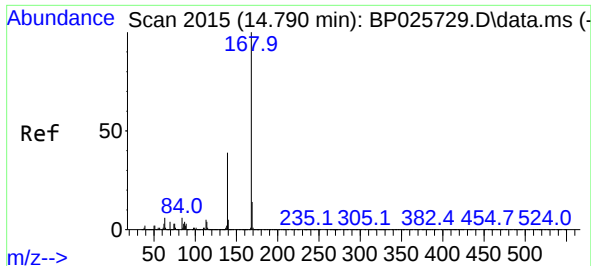


#52
Acenaphthene
Concen: 4.815 ng
RT: 14.437 min Scan# 1955
Delta R.T. -0.018 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31



Tgt Ion:154 Resp: 110599
Ion Ratio Lower Upper
154 100
153 114.7 89.4 134.0
152 54.6 42.5 63.7





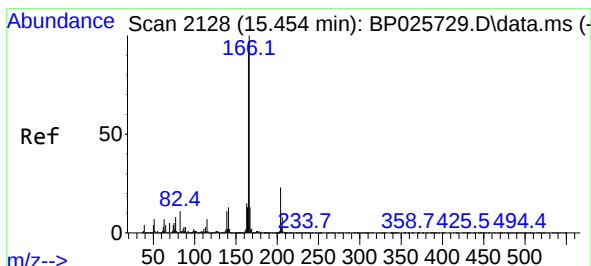
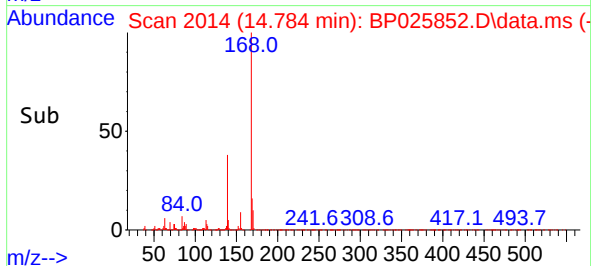
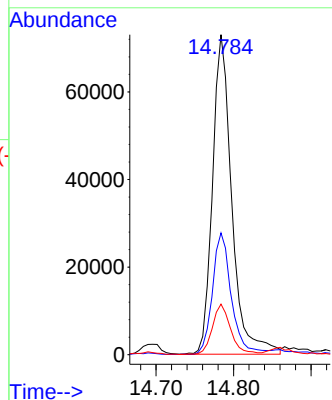
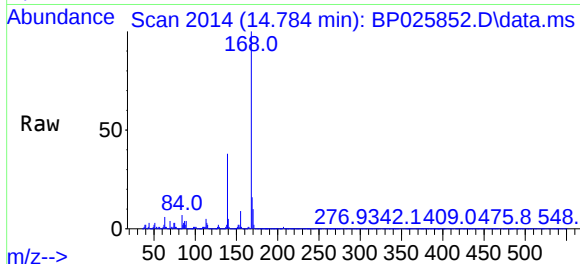
#55
Dibenzenofuran
Concen: 3.372 ng
RT: 14.784 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Instrument :
BNA_P
ClientSampleId :
VNJ-255

Tgt Ion:168 Resp: 12624
Ion Ratio Lower Upper
168 100
139 38.0 31.7 47.5
169 15.8 10.8 16.2

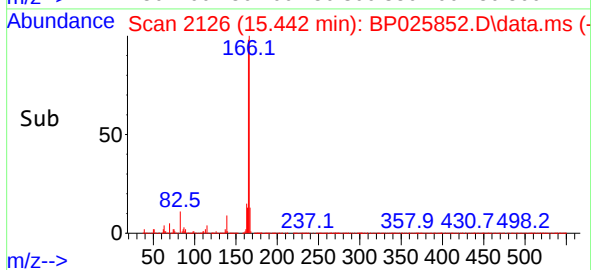
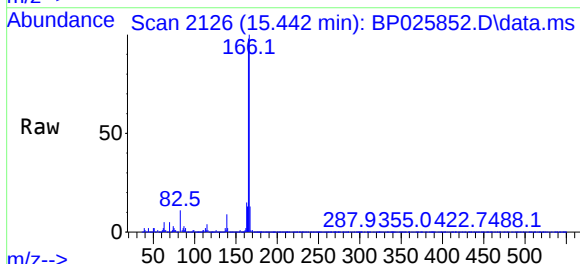
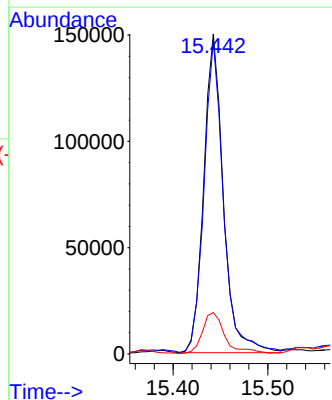
Manual Integrations
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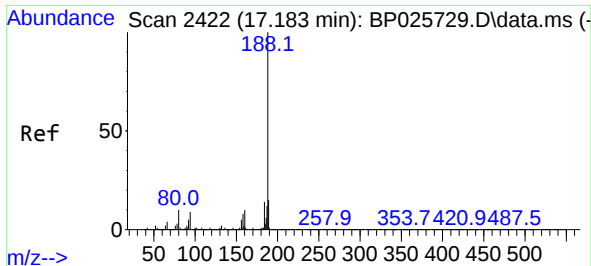
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#58
Fluorene
Concen: 7.271 ng
RT: 15.442 min Scan# 2126
Delta R.T. -0.012 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Tgt Ion:166 Resp: 216466
Ion Ratio Lower Upper
166 100
165 97.8 77.7 116.5
167 12.9 10.6 16.0





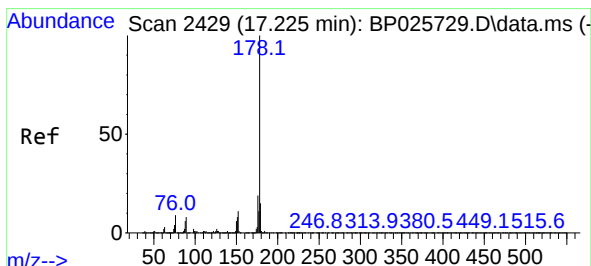
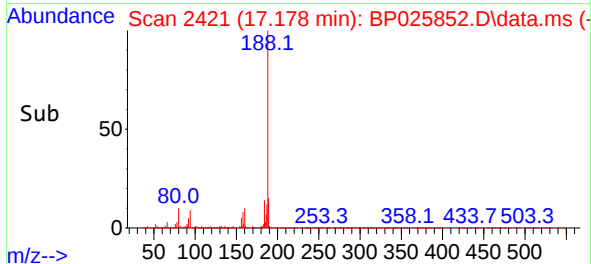
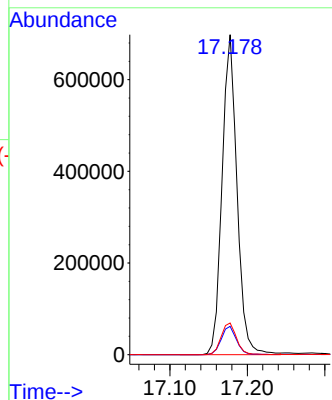
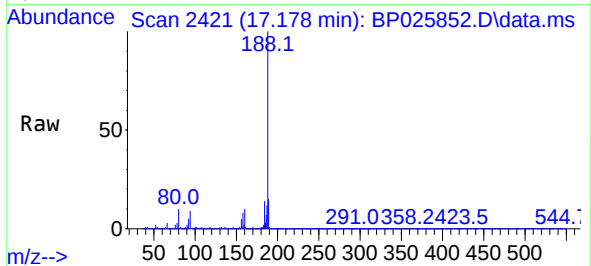
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.178 min Scan# 2421
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Instrument :
BNA_P
ClientSampleId :
VNJ-255

Tgt Ion:188 Resp: 932954
Ion Ratio Lower Upper
188 100
94 8.8 7.4 11.0
80 9.9 7.7 11.5

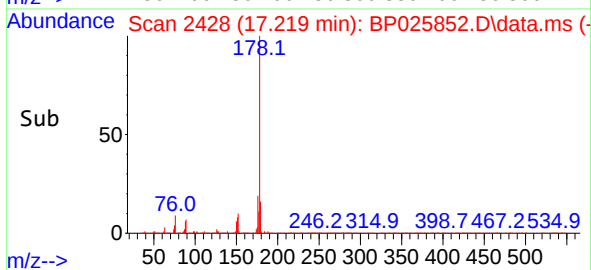
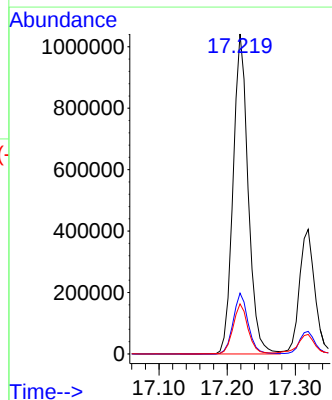
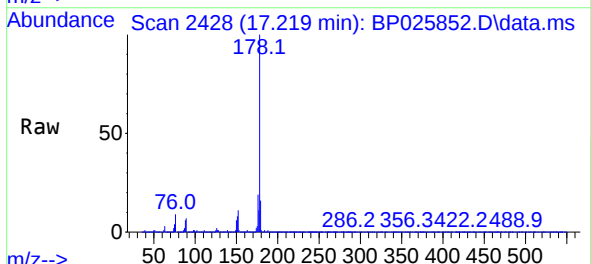
Manual Integrations
APPROVED

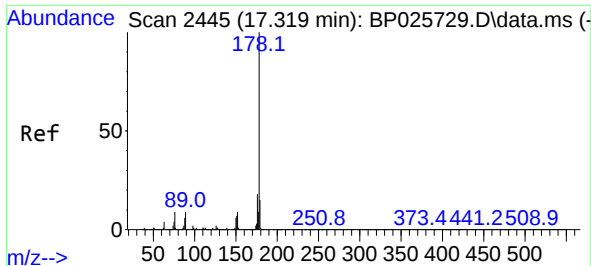
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#71
Phenanthrene
Concen: 30.304 ng
RT: 17.219 min Scan# 2428
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

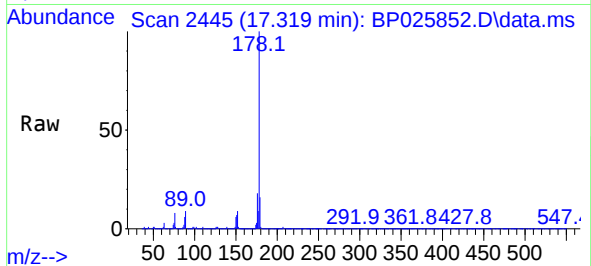
Tgt Ion:178 Resp: 1603761
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.7 12.2 18.4





#72
 Anthracene
 Concen: 12.051 ng
 RT: 17.319 min Scan# 2445
 Delta R.T. 0.000 min
 Lab File: BP025852.D
 Acq: 24 Sep 2025 19:31

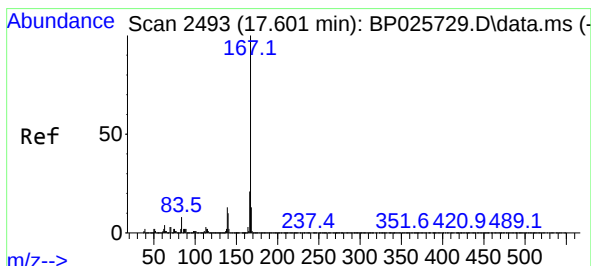
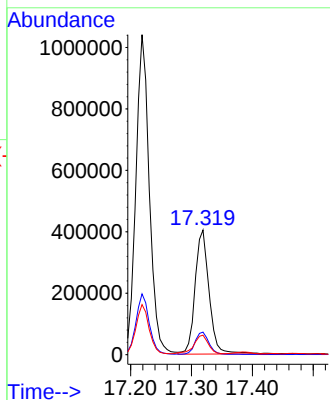
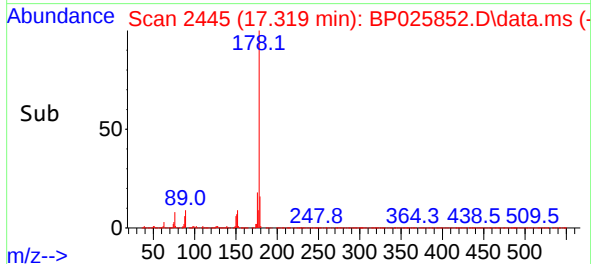
Instrument :
 BNA_P
 ClientSampleId :
 VNJ-255



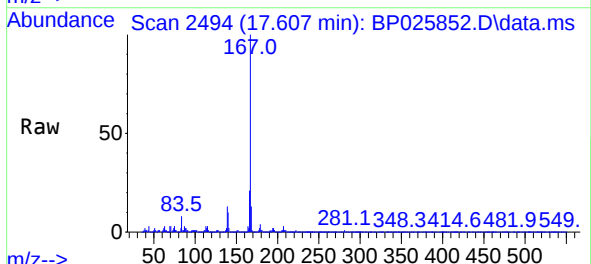
Tgt Ion:178 Resp: 647083
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.8 22.2
 179 15.6 12.2 18.4

Manual Integrations
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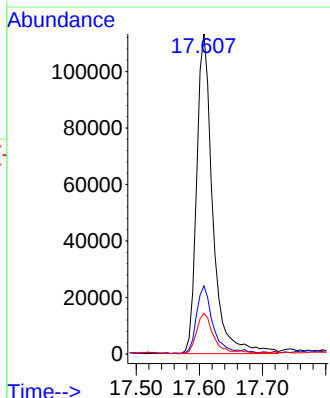
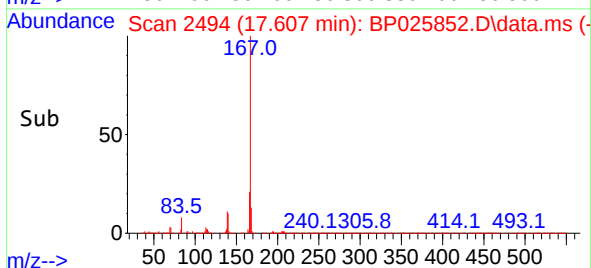
Reviewed By :Rahul Chavli 09/25/2025
 Supervised By :Jagrut Upadhyay 09/25/2025

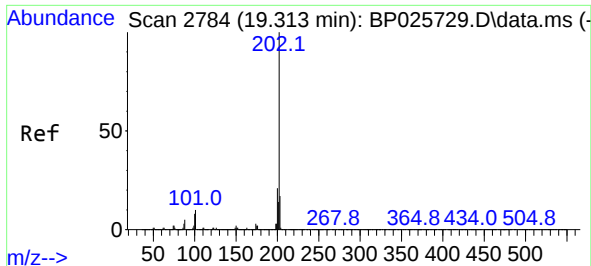


#73
 Carbazole
 Concen: 4.005 ng
 RT: 17.607 min Scan# 2494
 Delta R.T. 0.006 min
 Lab File: BP025852.D
 Acq: 24 Sep 2025 19:31



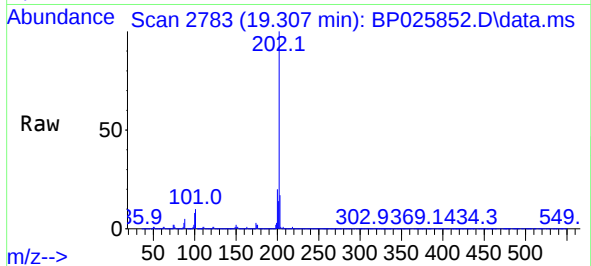
Tgt Ion:167 Resp: 199936
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.0 25.4
 139 12.7 10.6 16.0





#75
Fluoranthene
Concen: 32.784 ng
RT: 19.307 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

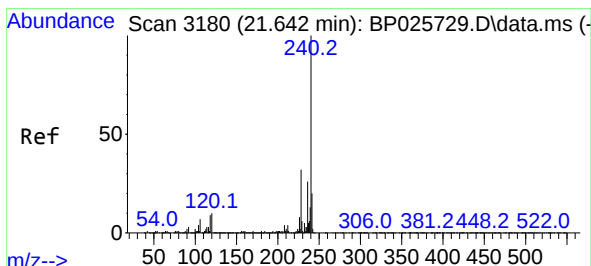
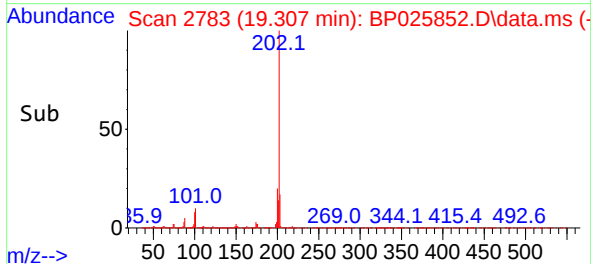
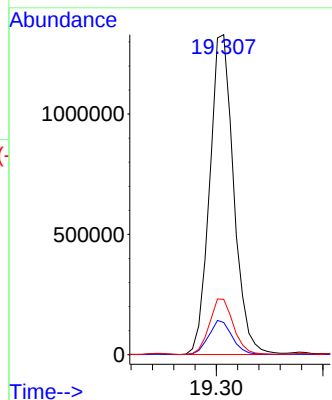
Instrument :
BNA_P
ClientSampleId :
VNJ-255



Tgt Ion:202 Resp: 208085
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.4
203 17.3 0.0 37.4

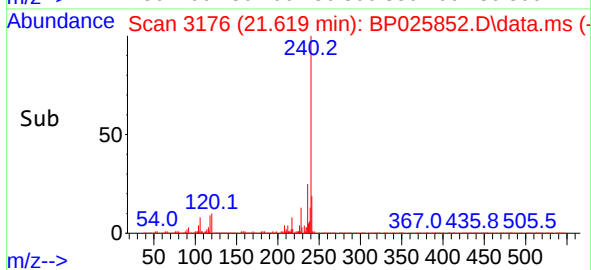
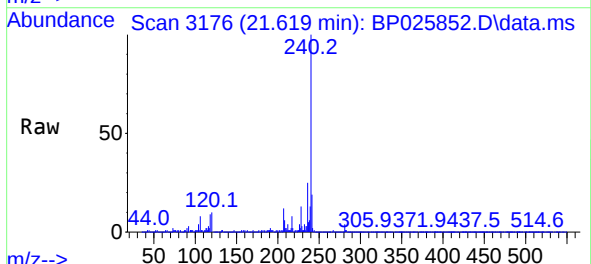
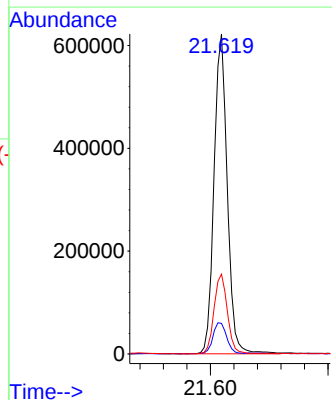
Manual Integrations
APPROVED

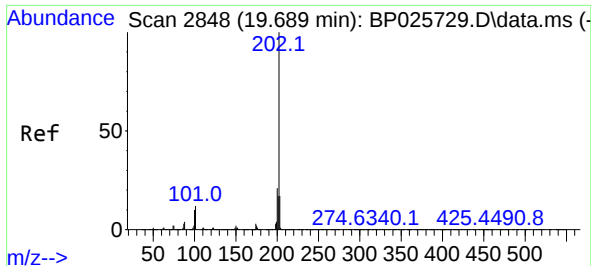
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.619 min Scan# 3176
Delta R.T. -0.023 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Tgt Ion:240 Resp: 970863
Ion Ratio Lower Upper
240 100
120 9.5 8.0 12.0
236 24.9 20.7 31.1





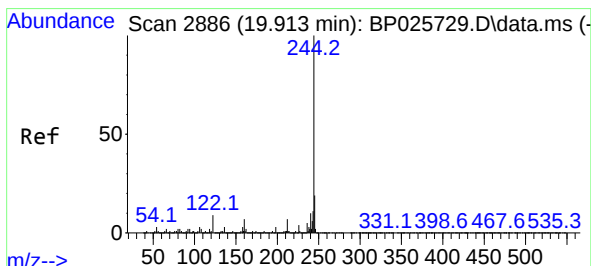
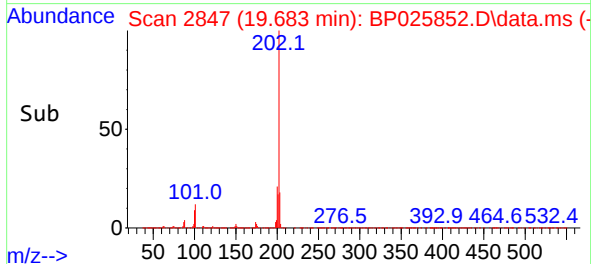
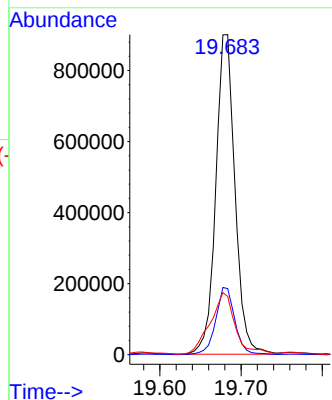
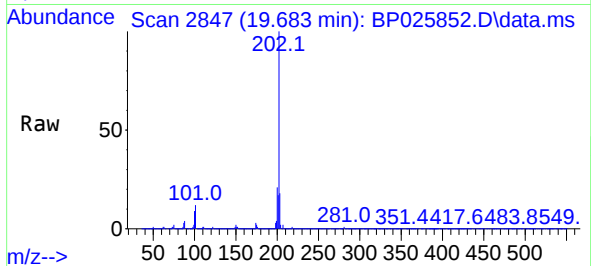
#78
Pyrene
Concen: 22.860 ng
RT: 19.683 min Scan# 2848
Delta R.T. -0.006 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Instrument :
BNA_P
ClientSampleId :
VNJ-255

Tgt Ion:202 Resp: 148090
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.6
203 18.2 13.9 20.9

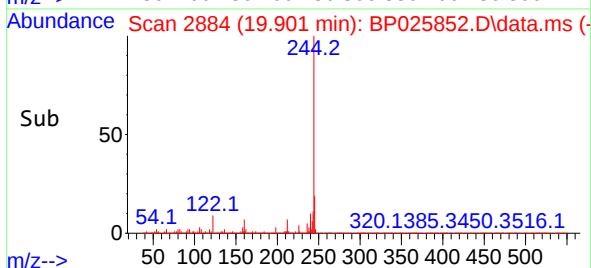
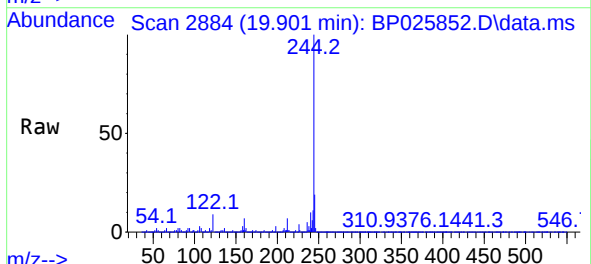
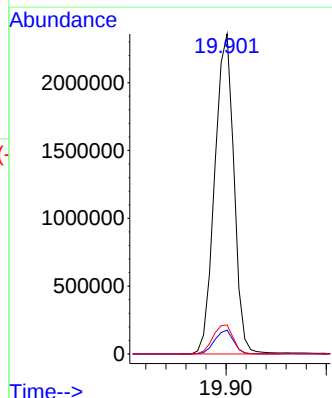
Manual Integrations
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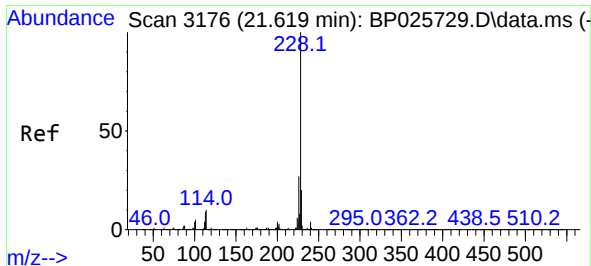
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#79
Terphenyl-d14
Concen: 58.099 ng
RT: 19.901 min Scan# 2884
Delta R.T. -0.012 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

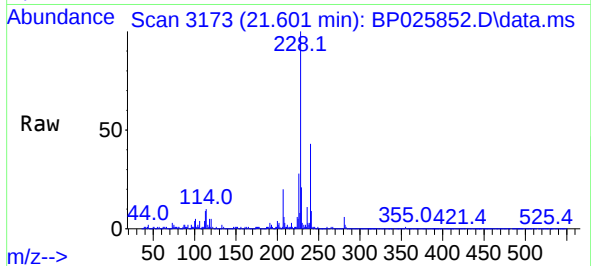
Tgt Ion:244 Resp: 3135466
Ion Ratio Lower Upper
244 100
212 7.4 5.9 8.9
122 9.0 7.1 10.7





#81
Benzo(a)anthracene
Concen: 9.257 ng
RT: 21.601 min Scan# 3176
Delta R.T. -0.018 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

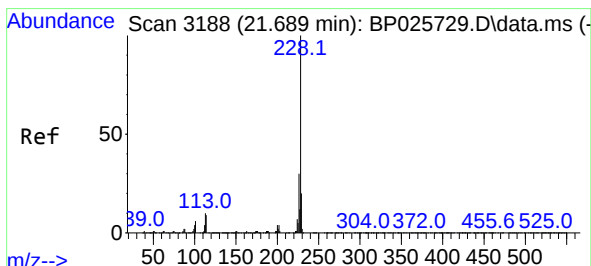
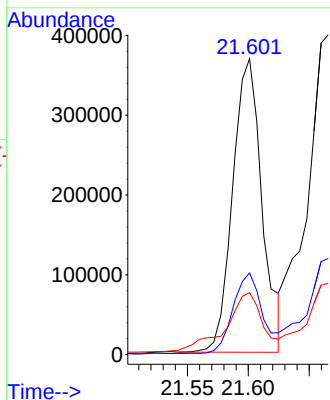
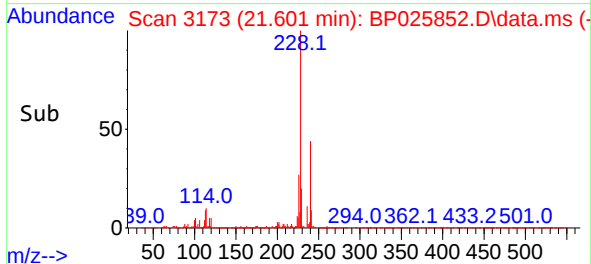
Instrument :
BNA_P
ClientSampleId :
VNJ-255



Tgt Ion:228 Resp: 615294
Ion Ratio Lower Upper
228 100
226 27.6 21.6 32.4
229 21.0 15.7 23.5

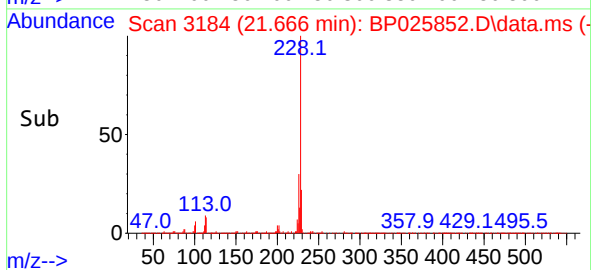
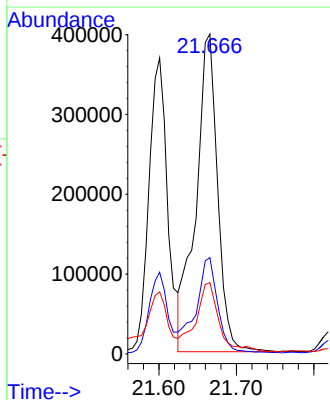
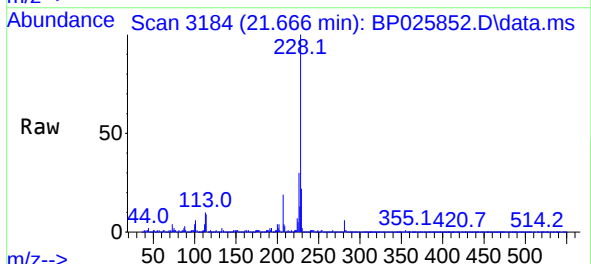
Manual Integrations
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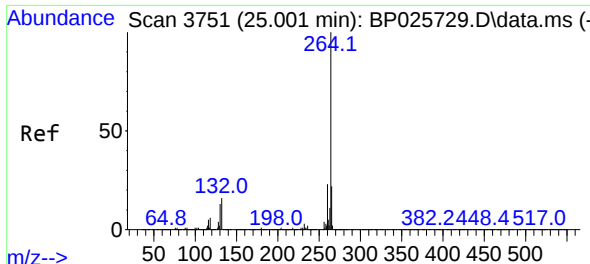
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#83
Chrysene
Concen: 12.281 ng
RT: 21.666 min Scan# 3184
Delta R.T. -0.023 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

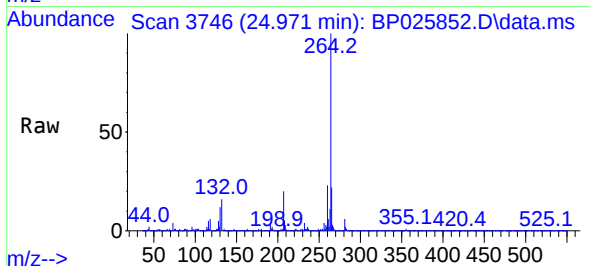
Tgt Ion:228 Resp: 778096
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.6
229 22.3 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.971 min Scan# 31
Delta R.T. -0.029 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

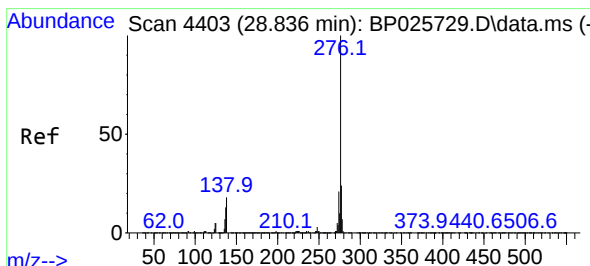
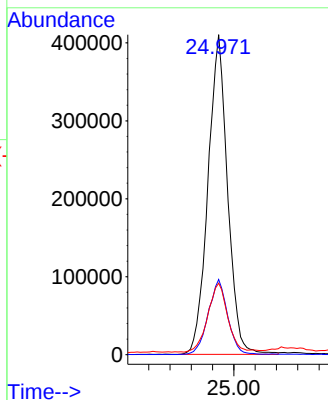
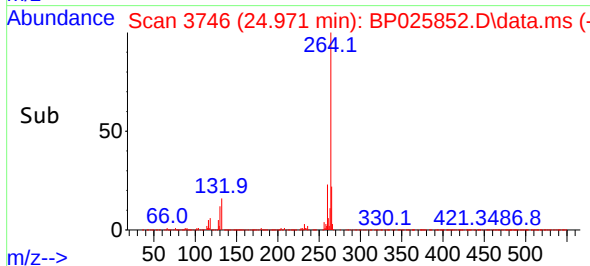
Instrument :
BNA_P
ClientSampleId :
VNJ-255



Tgt Ion: 264 Resp: 104840
Ion Ratio Lower Upper
264 100
260 23.5 18.3 27.5
265 22.4 17.3 25.9

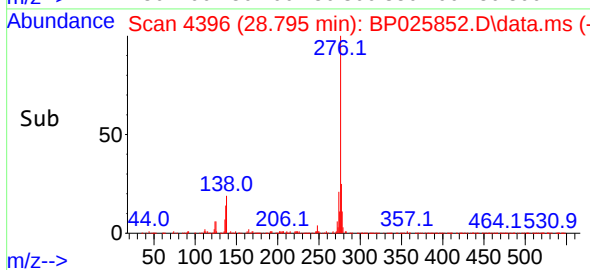
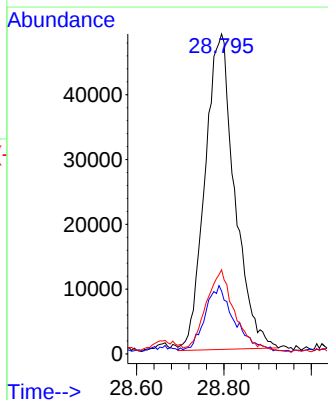
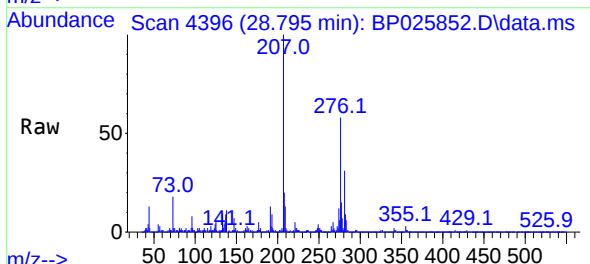
Manual Integrations
APPROVED

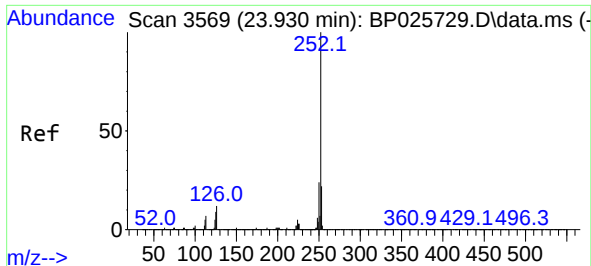
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 3.016 ng
RT: 28.795 min Scan# 4396
Delta R.T. -0.041 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Tgt Ion: 276 Resp: 229922
Ion Ratio Lower Upper
276 100
138 21.2 13.4 20.2#
277 25.9 9.1 13.7#





#88
Benzo(b)fluoranthene
Concen: 13.910 ng
RT: 23.913 min Scan# 3569
Delta R.T. -0.018 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Instrument :

BNA_P

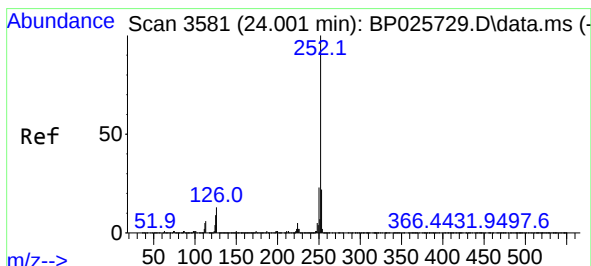
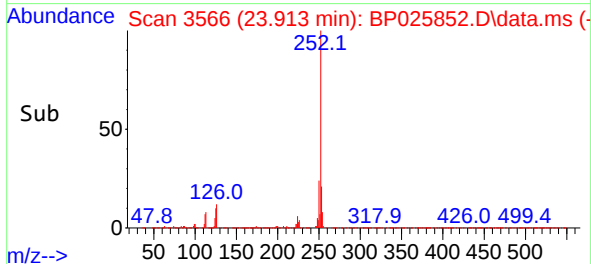
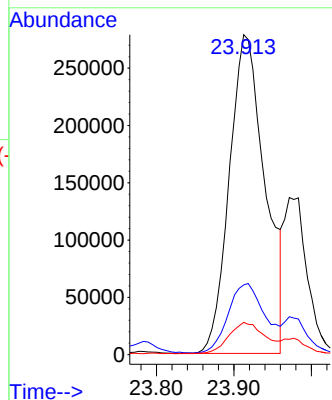
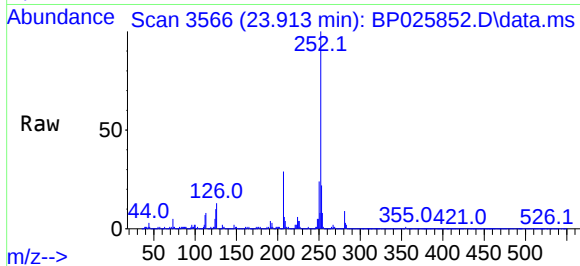
ClientSampleId :

VNJ-255

Tgt Ion:252 Resp: 89177
Ion Ratio Lower Upper
252 100
253 21.8 17.9 26.9
125 10.1 7.3 10.9

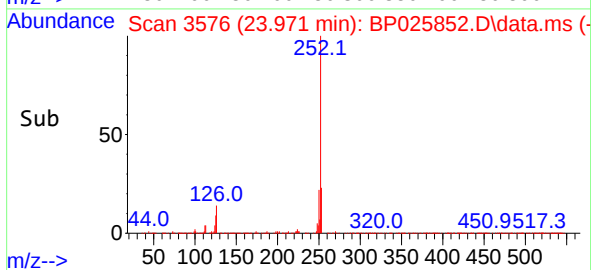
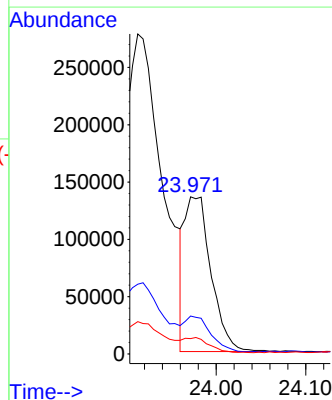
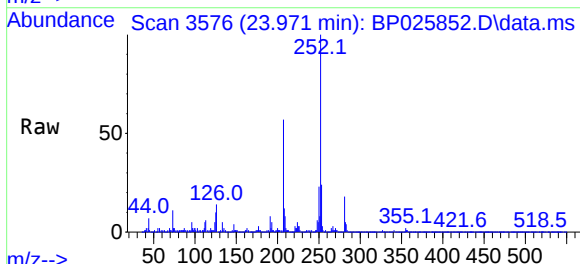
Manual Integrations
APPROVED

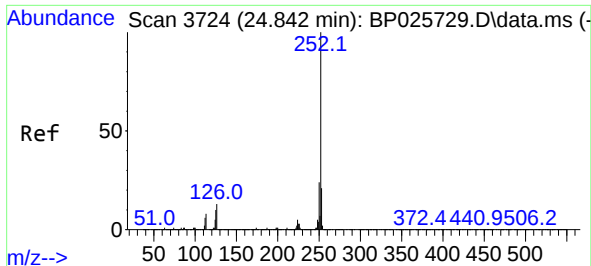
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#89
Benzo(k)fluoranthene
Concen: 4.223 ng m
RT: 23.971 min Scan# 3576
Delta R.T. -0.029 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Tgt Ion:252 Resp: 276260
Ion Ratio Lower Upper
252 100
253 24.1 17.5 26.3
125 9.8 7.5 11.3





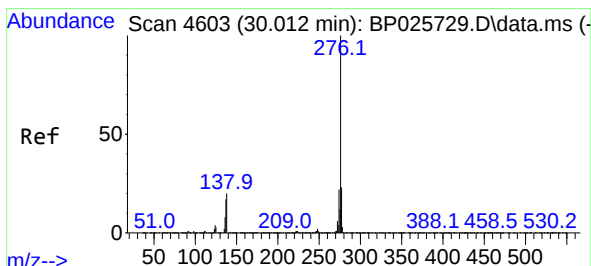
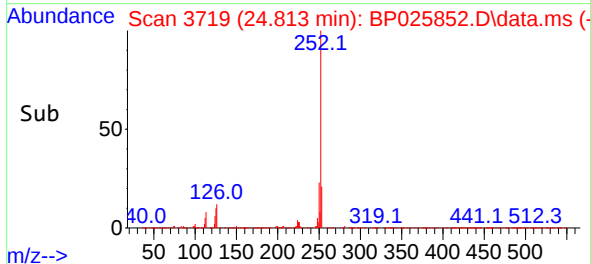
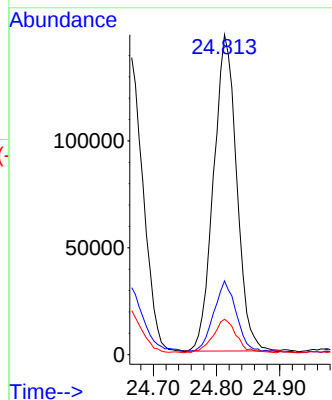
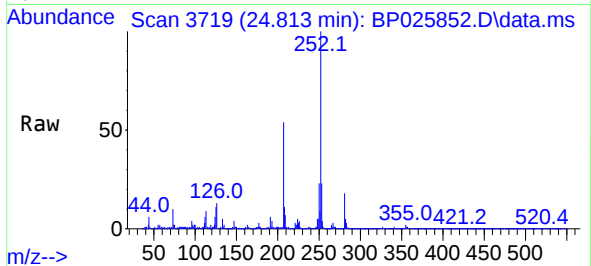
#90
Benzo(a)pyrene
Concen: 5.991 ng
RT: 24.813 min Scan# 31
Delta R.T. -0.029 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Instrument :
BNA_P
ClientSampleId :
VNJ-255

Tgt Ion: 252 Resp: 37612
Ion Ratio Lower Upper
252 100
253 23.0 17.2 25.8
125 11.0 8.3 12.5

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#92
Benzo(g,h,i)perylene
Concen: 3.268 ng
RT: 29.983 min Scan# 4598
Delta R.T. -0.029 min
Lab File: BP025852.D
Acq: 24 Sep 2025 19:31

Tgt Ion: 276 Resp: 200520
Ion Ratio Lower Upper
276 100
277 25.8 18.7 28.1
138 22.7 16.0 24.0

