

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072225\
 Data File : BF143186.D
 Acq On : 22 Jul 2025 13:21
 Operator : RC/JU
 Sample : Q2638-09
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-35-071725

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

Quant Time: Jul 22 13:57:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	115140	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	440411	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	225605	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	327250	20.000	ng	0.00
76) Chrysene-d12	14.122	240	247179	20.000	ng	0.00
86) Perylene-d12	15.633	264	168171	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	510370	70.144	ng	0.00
7) Phenol-d6	6.581	99	670908	73.258	ng	0.00
23) Nitrobenzene-d5	7.516	82	424247	48.018	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	155394	66.675	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	772947	46.856	ng	0.00
79) Terphenyl-d14	13.069	244	616315	37.104	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.510	178	43986	2.531	ng	99
75) Fluoranthene	12.698	202	120200	7.537	ng	98
78) Pyrene	12.928	202	149052	7.066	ng	98
81) Benzo(a)anthracene	14.116	228	102891	6.217	ng	# 70
83) Chrysene	14.151	228	94295	6.338	ng	# 95
84) Bis(2-ethylhexyl)phtha...	14.104	149	20886	2.136	ng	# 98
87) Indeno(1,2,3-cd)pyrene	17.163	276	35926	3.030	ng	96
88) Benzo(b)fluoranthene	15.186	252	85585m	8.330	ng	
89) Benzo(k)fluoranthene	15.204	252	26026m	2.839	ng	
90) Benzo(a)pyrene	15.563	252	63188	6.676	ng	# 93
92) Benzo(g,h,i)perylene	17.627	276	37431	4.009	ng	98

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

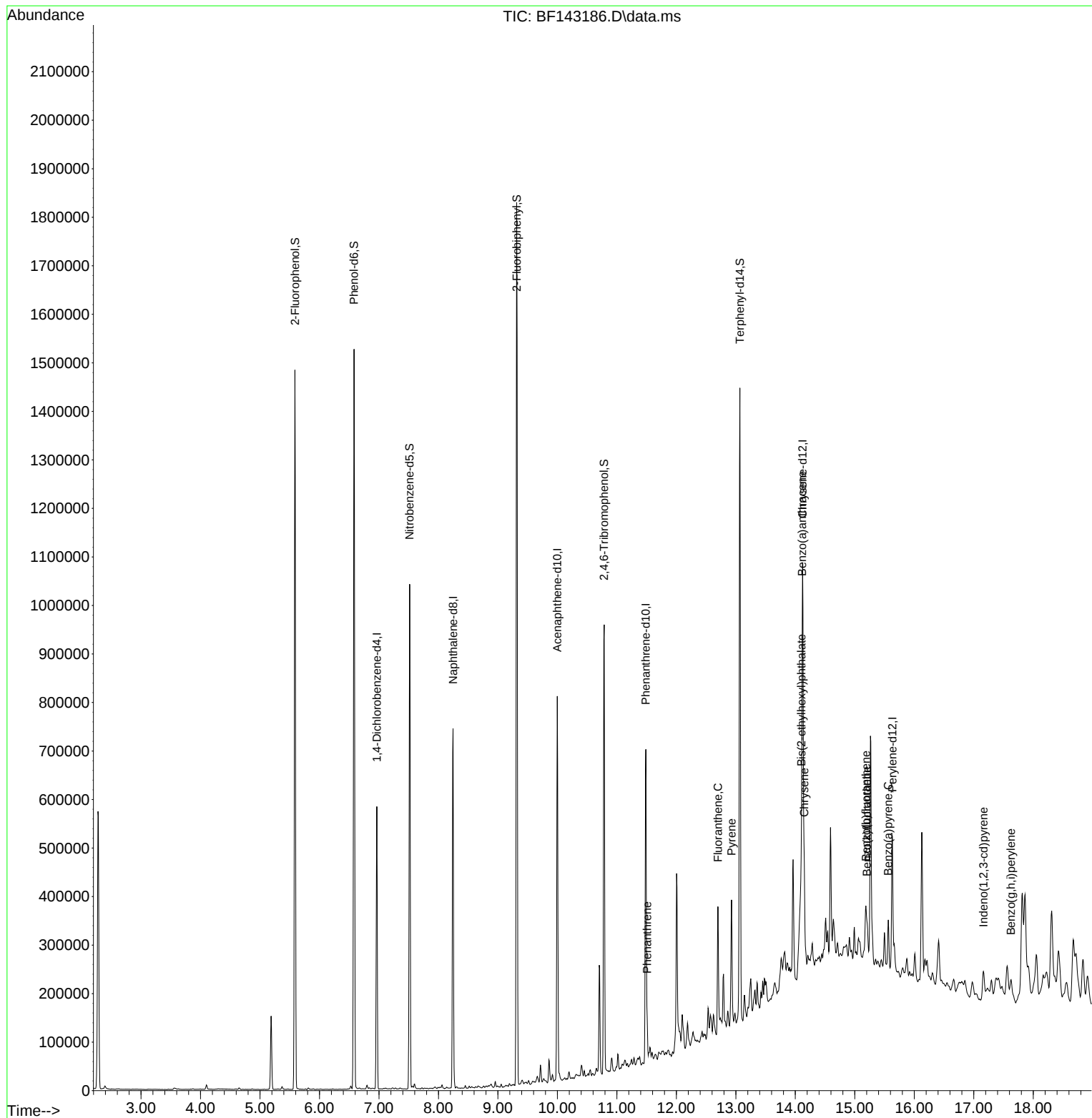
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072225\
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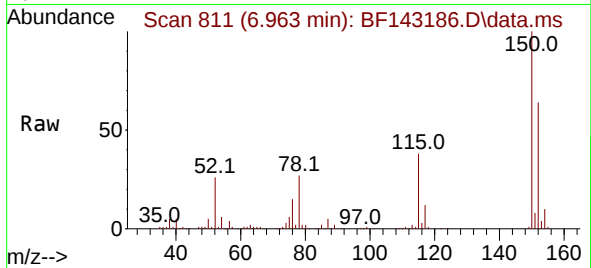
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

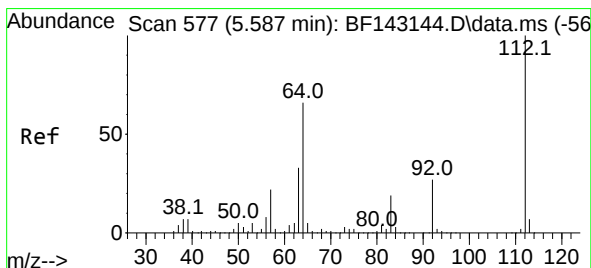
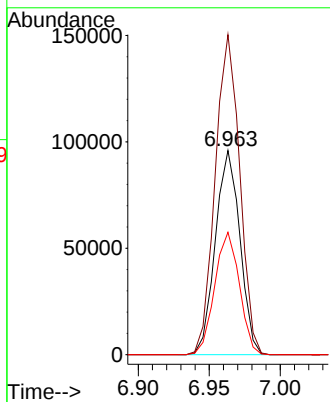
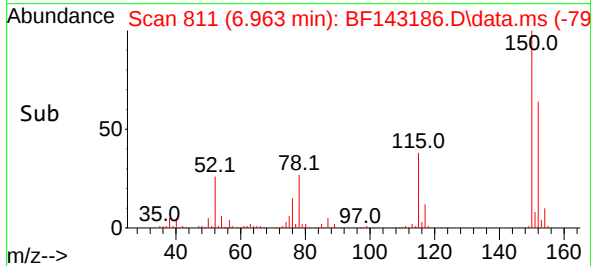
Instrument :
BNA_F
ClientSampleId :
OU4-TS-35-071725



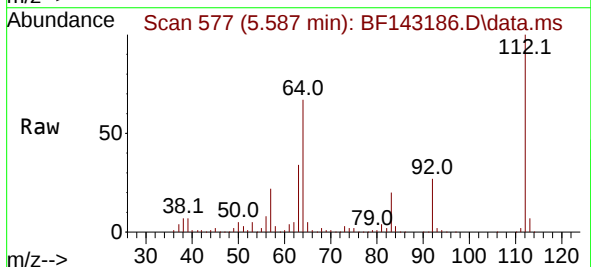
Tgt Ion:152 Resp: 115140
Ion Ratio Lower Upper
152 100
150 156.8 128.2 192.4
115 60.0 47.9 71.9

Manual Integrations
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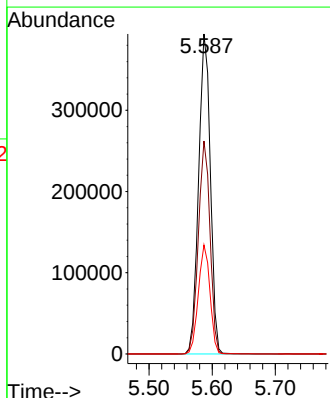
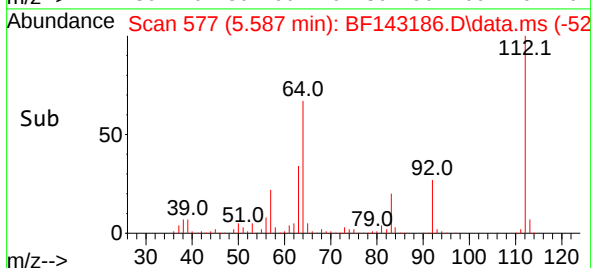
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#5
2-Fluorophenol
Concen: 70.144 ng
RT: 5.587 min Scan# 577
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21



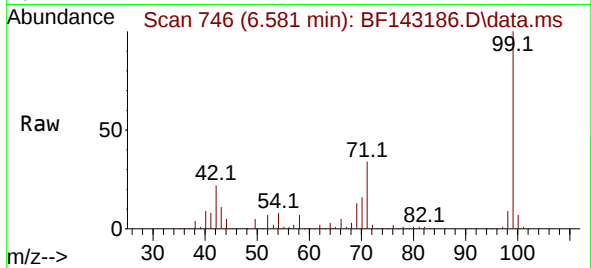
Tgt Ion:112 Resp: 510370
Ion Ratio Lower Upper
112 100
64 66.6 53.1 79.7
63 34.0 26.6 40.0





#7
Phenol-d6
Concen: 73.258 ng
RT: 6.581 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

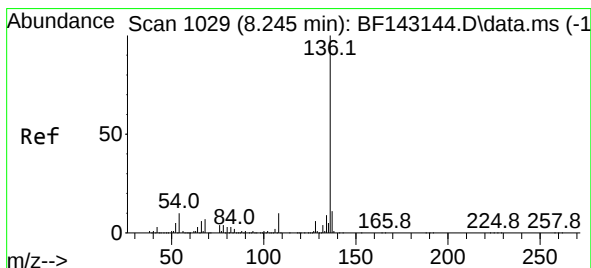
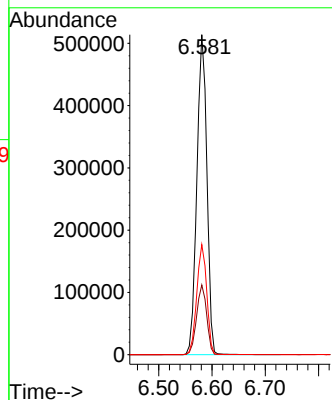
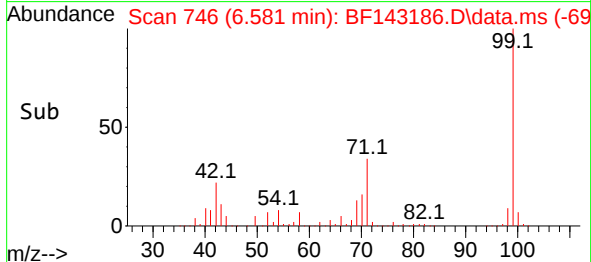
Instrument :
BNA_F
ClientSampleId :
OU4-TS-35-071725



Tgt Ion: 99 Resp: 670908
Ion Ratio Lower Upper
99 100
42 21.8 17.0 25.6
71 34.4 27.7 41.5

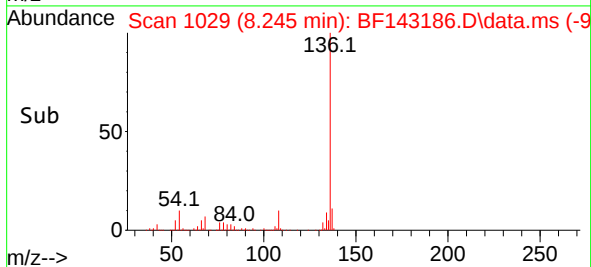
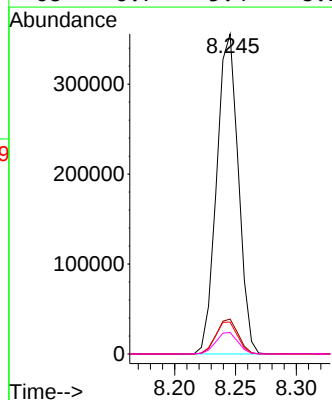
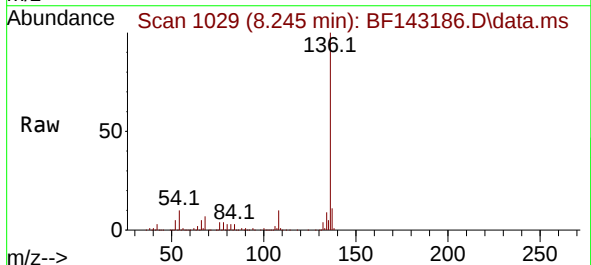
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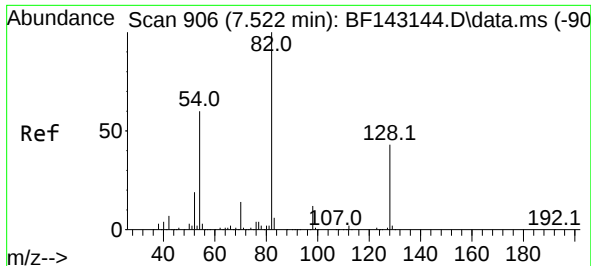
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

Tgt Ion:136 Resp: 440411
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 10.0 8.2 12.2
68 6.7 5.4 8.2





#23

Nitrobenzene-d5

Concen: 48.018 ng

RT: 7.516 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA_F

ClientSampleId :

OU4-TS-35-071725

Tgt Ion: 82 Resp: 42424

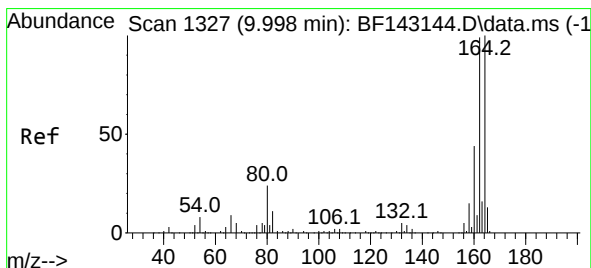
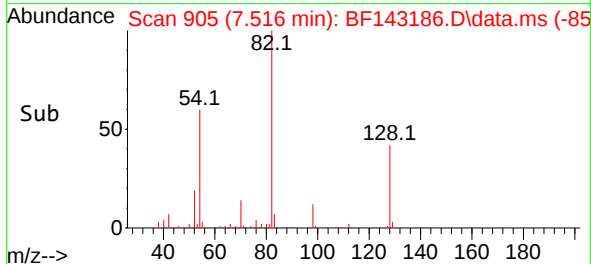
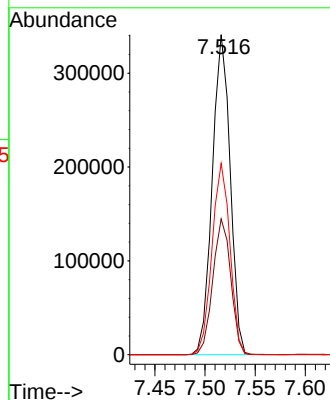
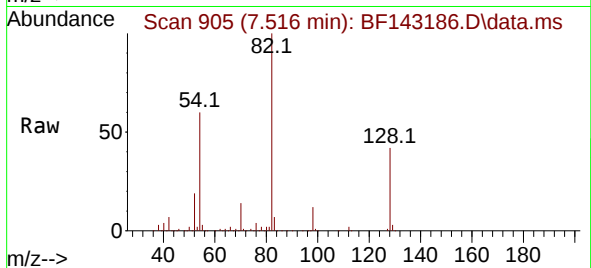
Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.6	50.4
54	59.8	47.1	70.7

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 1327

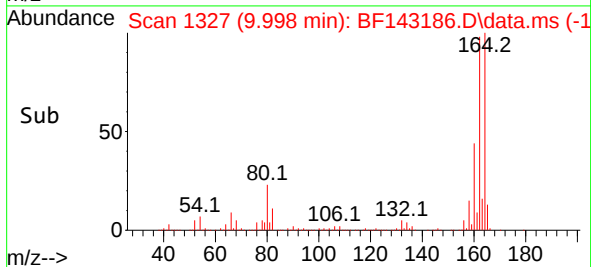
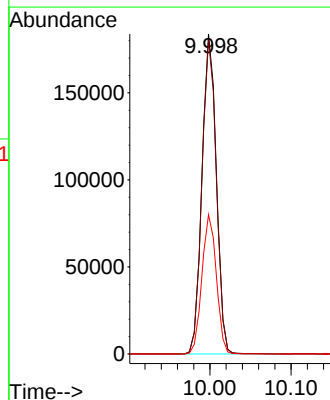
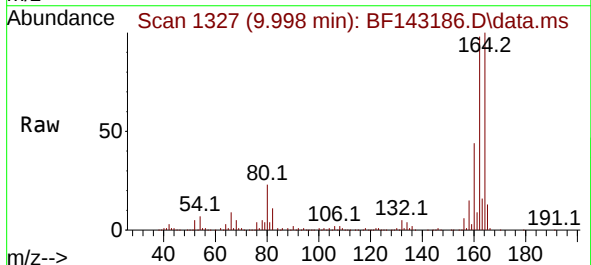
Delta R.T. 0.000 min

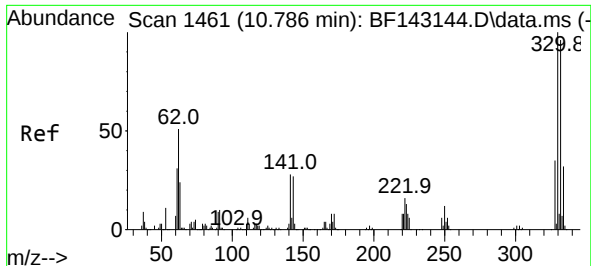
Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Tgt Ion:164 Resp: 225605

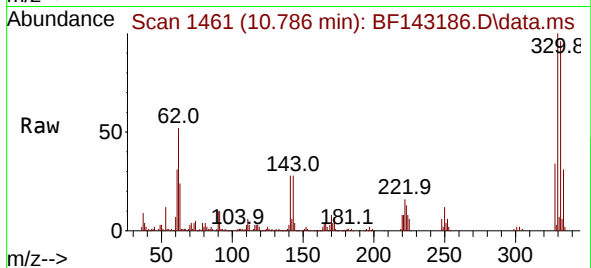
Ion	Ratio	Lower	Upper
164	100		
162	98.2	79.0	118.6
160	43.6	35.1	52.7





#42
 2,4,6-Tribromophenol
 Concen: 66.675 ng
 RT: 10.786 min Scan# 1461
 Delta R.T. 0.000 min
 Lab File: BF143186.D
 Acq: 22 Jul 2025 13:21

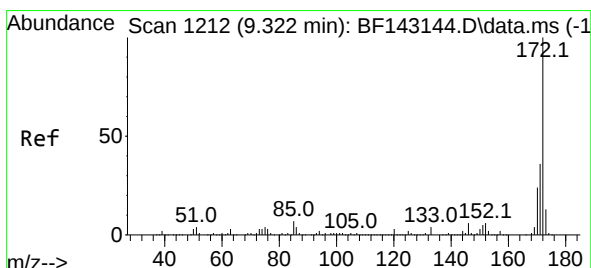
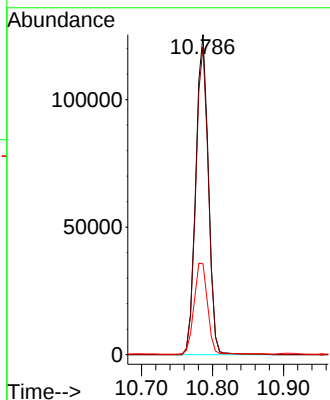
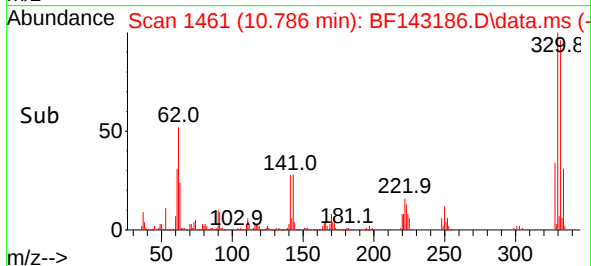
Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-35-071725



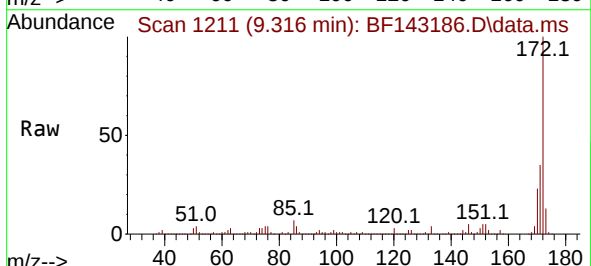
Tgt Ion: 330 Resp: 155394
 Ion Ratio Lower Upper
 330 100
 332 96.1 76.7 115.1
 141 30.3 23.3 34.9

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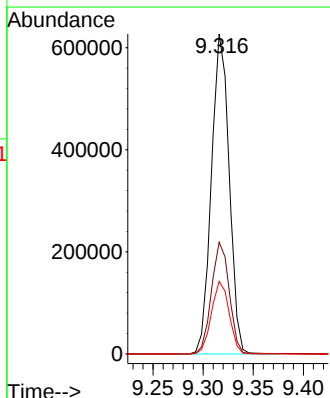
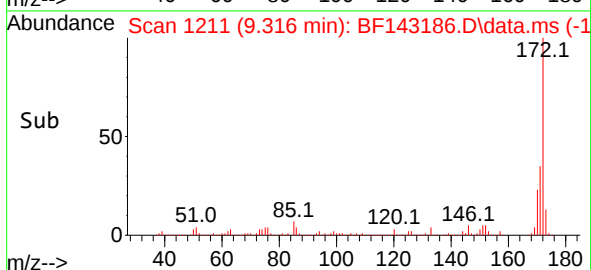
Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

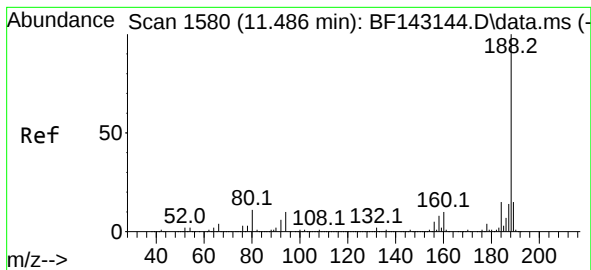


#45
 2-Fluorobiphenyl
 Concen: 46.856 ng
 RT: 9.316 min Scan# 1211
 Delta R.T. -0.006 min
 Lab File: BF143186.D
 Acq: 22 Jul 2025 13:21



Tgt Ion: 172 Resp: 772947
 Ion Ratio Lower Upper
 172 100
 171 34.9 28.6 42.8
 170 22.7 18.8 28.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.486 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA_F

ClientSampleId :

OU4-TS-35-071725

Tgt Ion:188 Resp: 327250

Ion Ratio Lower Upper

188 100

94 10.1 8.3 12.5

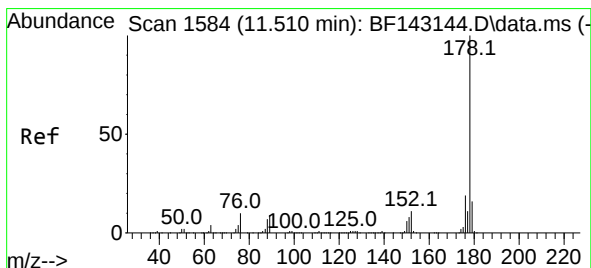
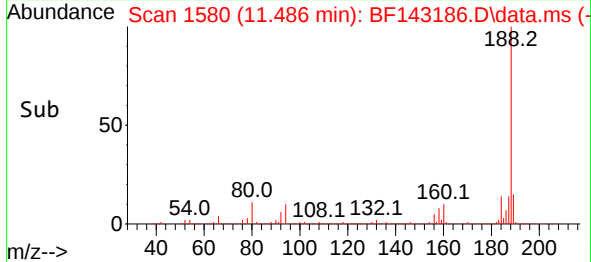
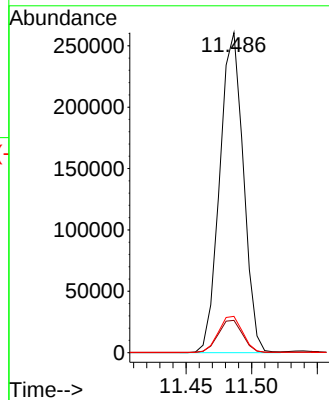
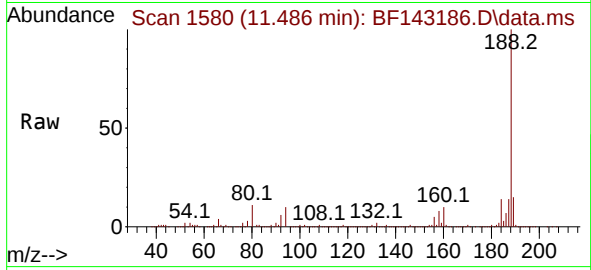
80 11.3 9.0 13.6

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#71

Phenanthrene

Concen: 2.531 ng

RT: 11.510 min Scan# 1584

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

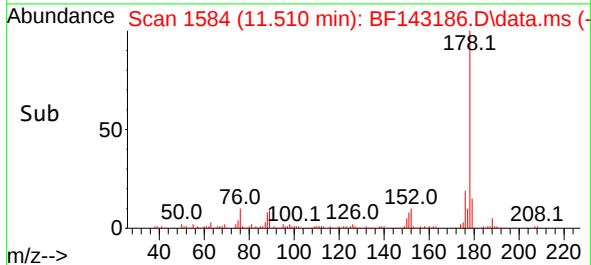
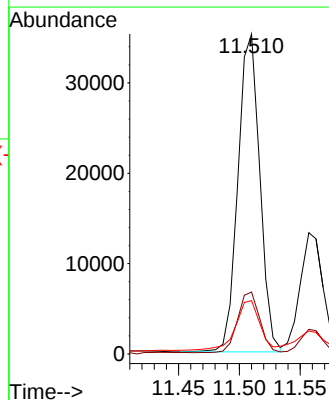
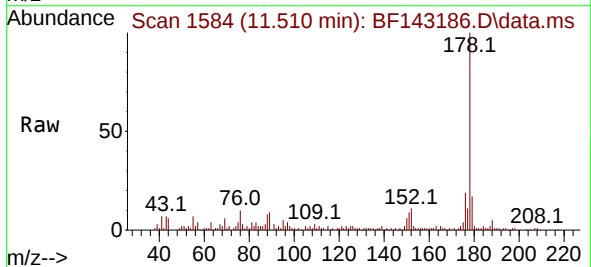
Tgt Ion:178 Resp: 43986

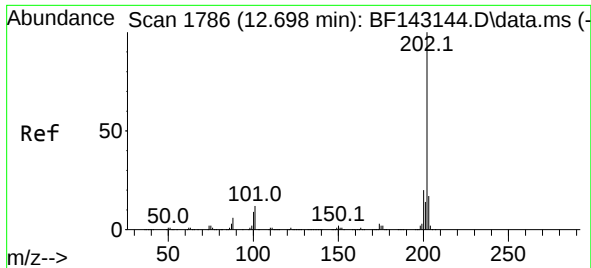
Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

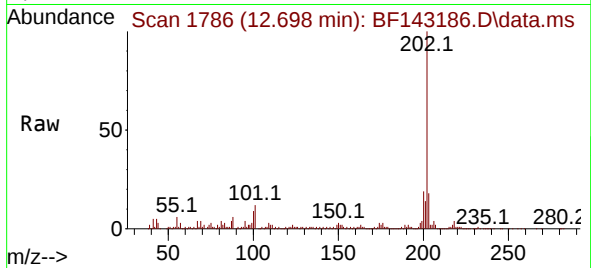
179 16.7 12.5 18.7





#75
Fluoranthene
Concen: 7.537 ng
RT: 12.698 min Scan# 1786
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

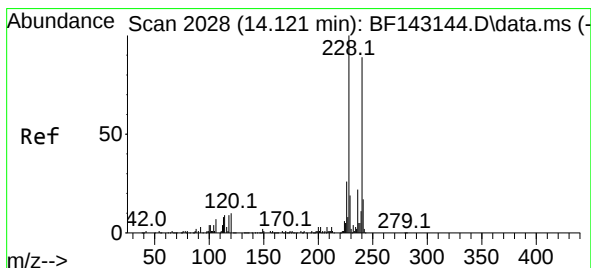
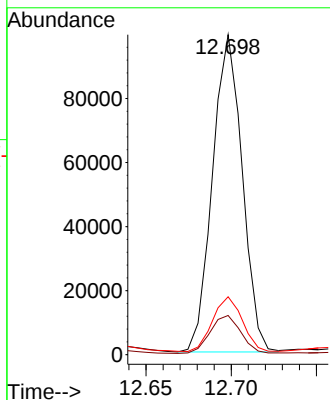
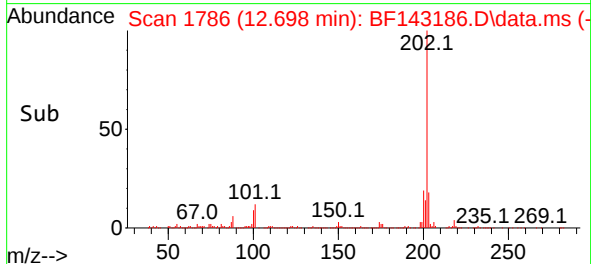
Instrument :
BNA_F
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OU4-TS-35-071725



Tgt Ion:202 Resp: 120200
Ion Ratio Lower Upper
202 100
101 12.3 0.0 31.7
203 18.1 0.0 37.4

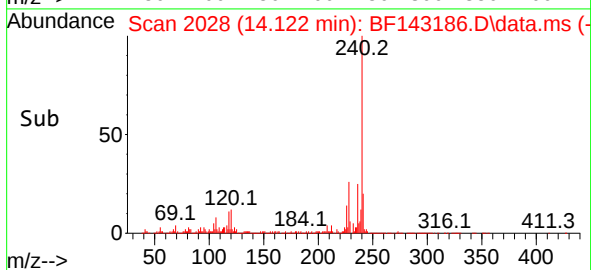
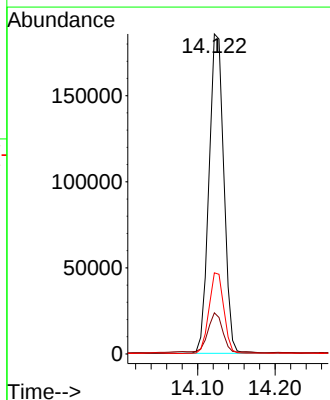
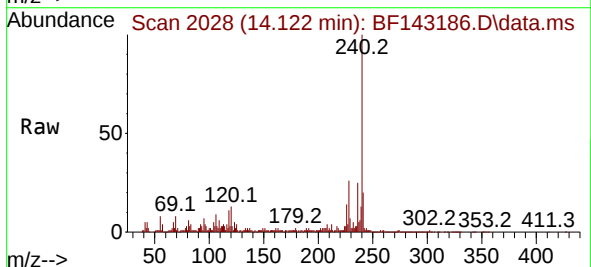
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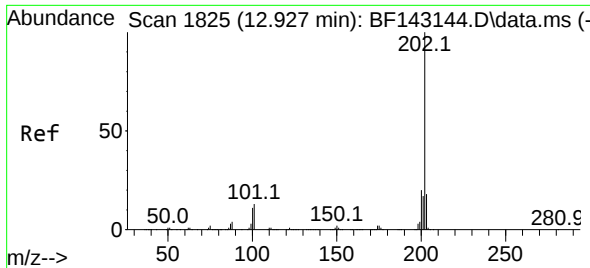
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.122 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

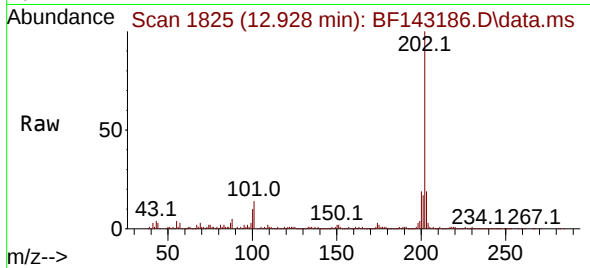
Tgt Ion:240 Resp: 247179
Ion Ratio Lower Upper
240 100
120 12.9 9.4 14.2
236 25.4 20.2 30.4





#78
 Pyrene
 Concen: 7.066 ng
 RT: 12.928 min Scan# 1825
 Delta R.T. 0.000 min
 Lab File: BF143186.D
 Acq: 22 Jul 2025 13:21

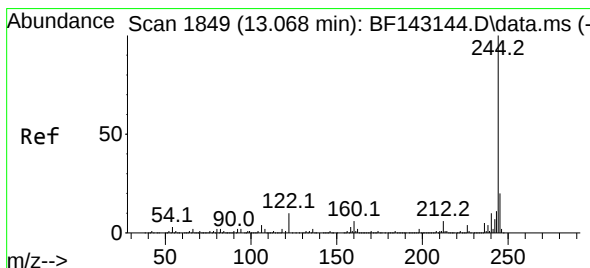
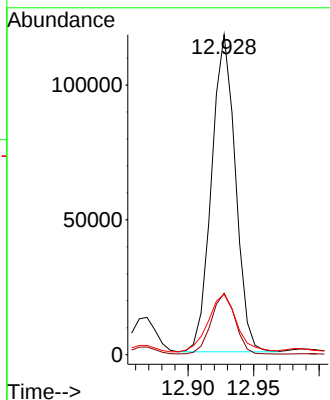
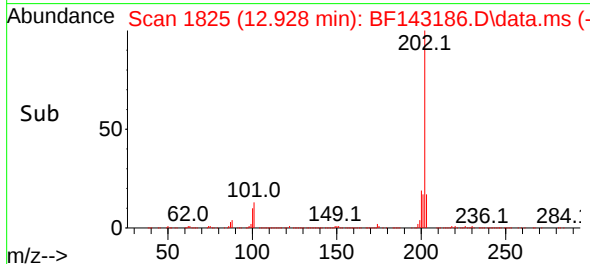
Instrument :
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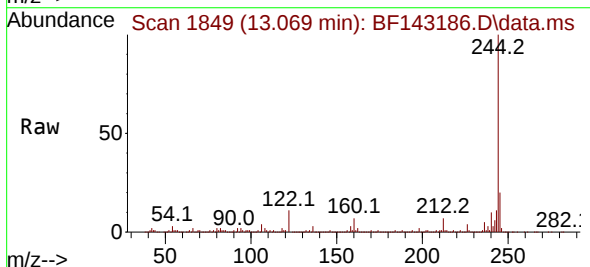
Tgt Ion:202 Resp: 149052
 Ion Ratio Lower Upper
 202 100
 200 19.2 15.7 23.5
 203 18.9 14.2 21.2

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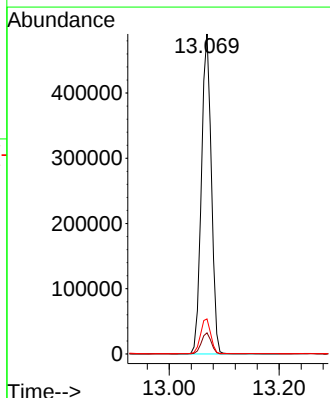
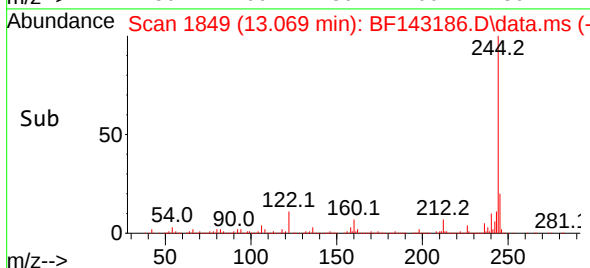
Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

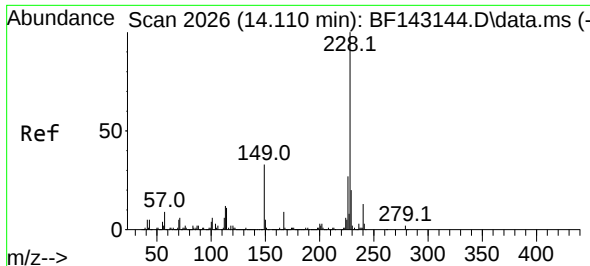


#79
 Terphenyl-d14
 Concen: 37.104 ng
 RT: 13.069 min Scan# 1849
 Delta R.T. 0.000 min
 Lab File: BF143186.D
 Acq: 22 Jul 2025 13:21



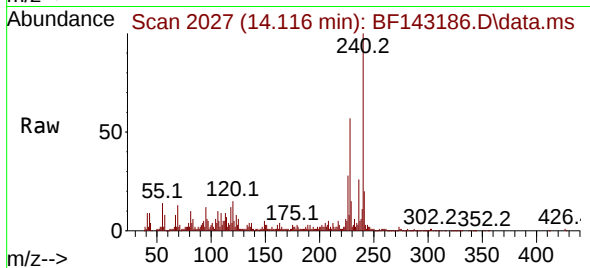
Tgt Ion:244 Resp: 616315
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.2 7.8
 122 10.9 8.2 12.2





#81
Benzo(a)anthracene
Concen: 6.217 ng
RT: 14.116 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

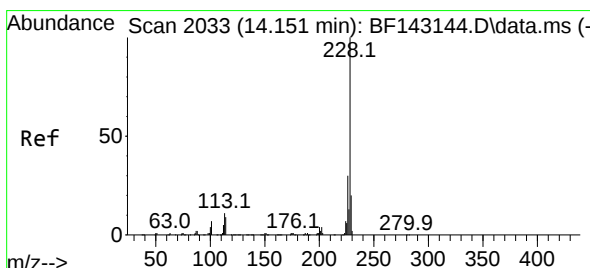
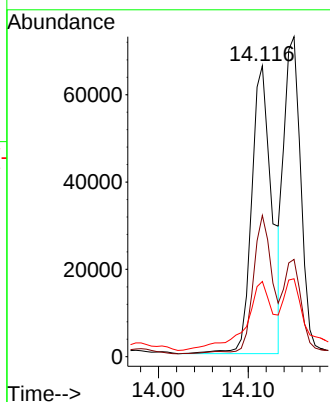
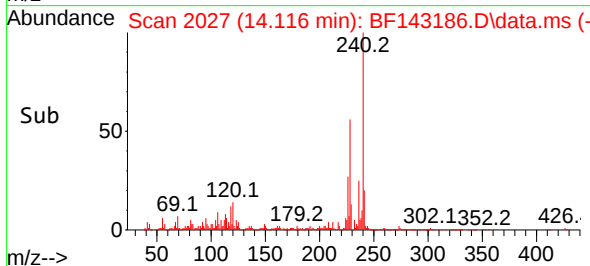
Instrument :
BNA_F
ClientSampleId :
OU4-TS-35-071725



Tgt Ion:228 Resp: 10289
Ion Ratio Lower Upper
228 100
226 48.6 21.7 32.5
229 25.9 15.8 23.6

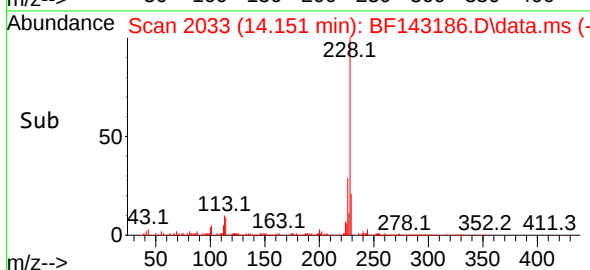
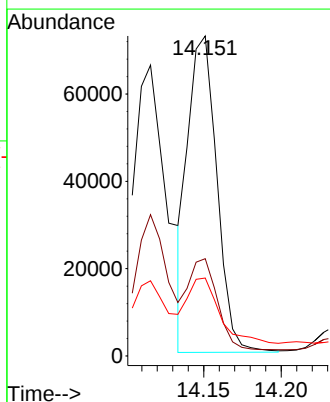
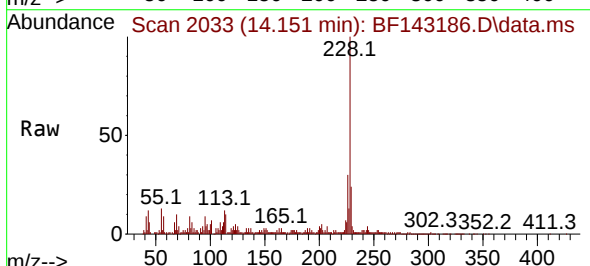
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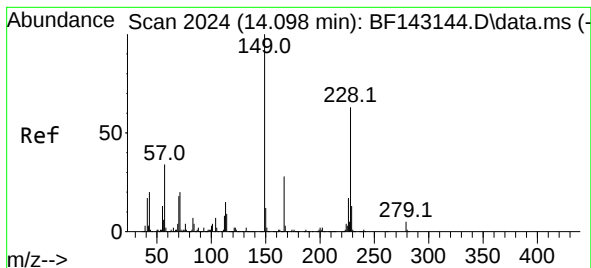
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#83
Chrysene
Concen: 6.338 ng
RT: 14.151 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

Tgt Ion:228 Resp: 94295
Ion Ratio Lower Upper
228 100
226 30.4 23.8 35.8
229 24.3 15.6 23.4





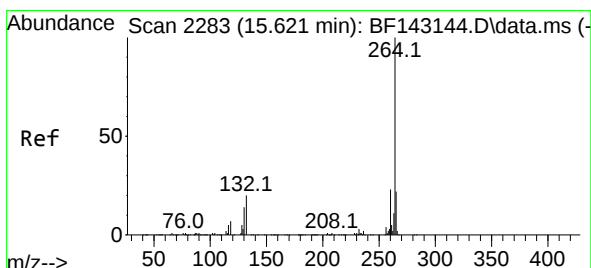
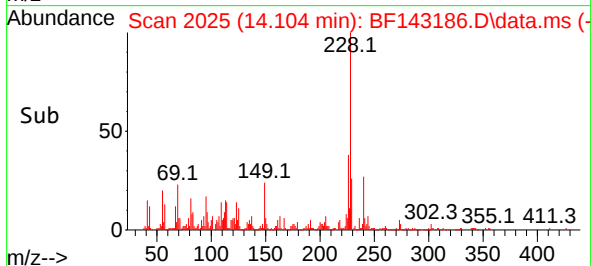
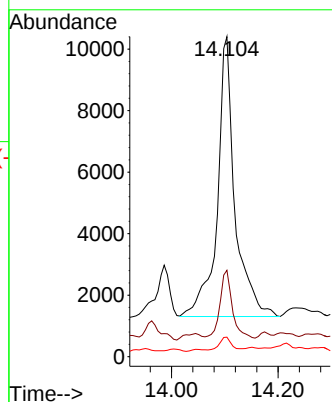
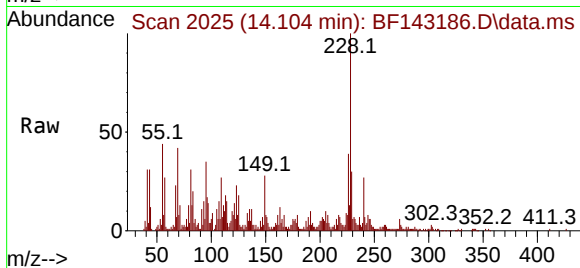
#84
Bis(2-ethylhexyl)phthalate
Concen: 2.136 ng
RT: 14.104 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

Instrument :
BNA_F
ClientSampleId :
OU4-TS-35-071725

Tgt Ion:149 Resp: 20880
Ion Ratio Lower Upper
149 100
167 27.0 22.3 33.5
279 6.1 3.6 5.4

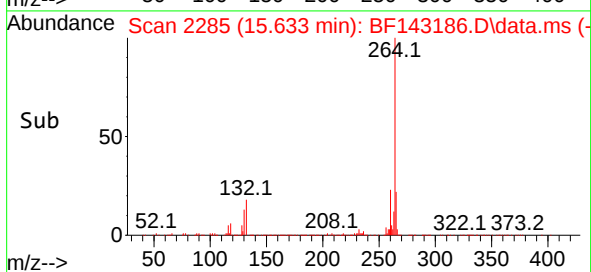
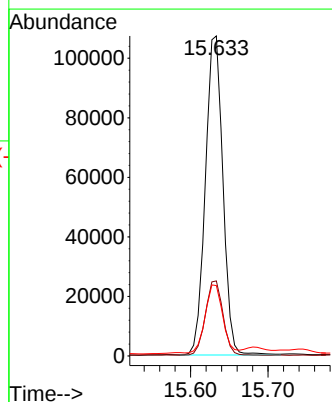
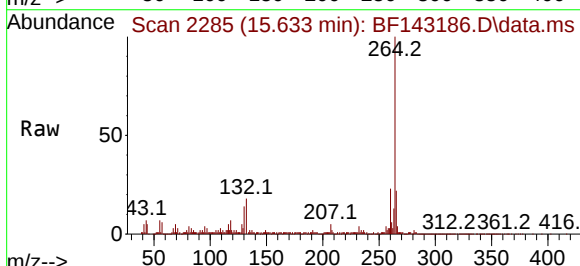
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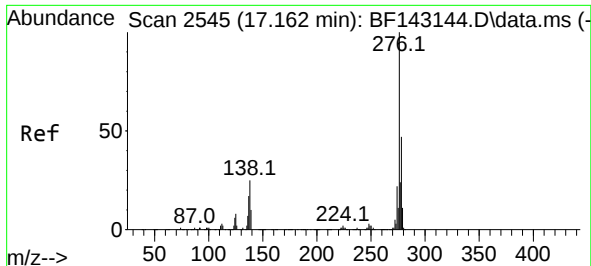
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. 0.012 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

Tgt Ion:264 Resp: 168171
Ion Ratio Lower Upper
264 100
260 23.5 18.5 27.7
265 22.0 17.4 26.2





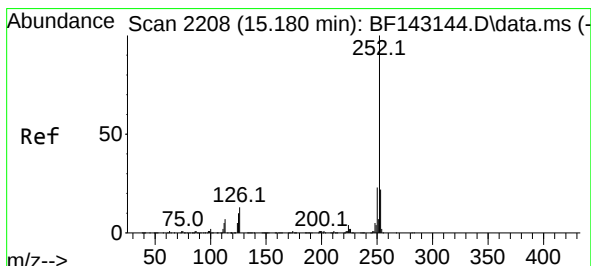
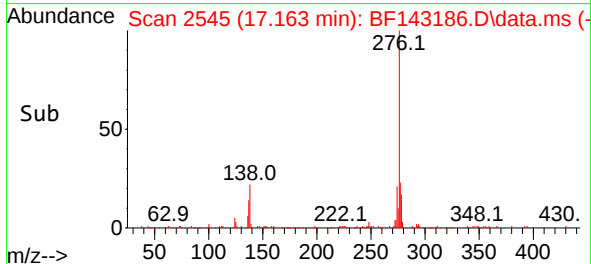
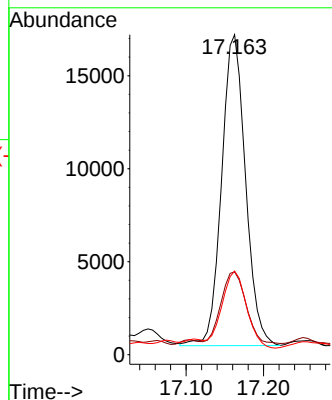
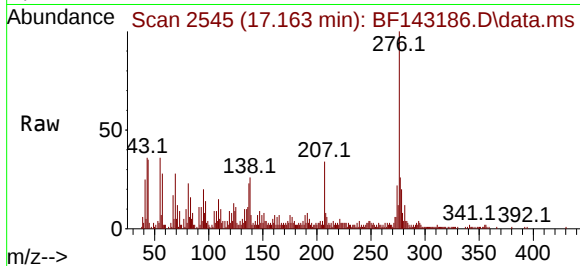
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.030 ng
RT: 17.163 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

Instrument :
BNA_F
ClientSampleId :
OU4-TS-35-071725

Tgt Ion:276 Resp: 35920
Ion Ratio Lower Upper
276 100
138 23.9 21.8 32.6
277 25.7 20.0 30.0

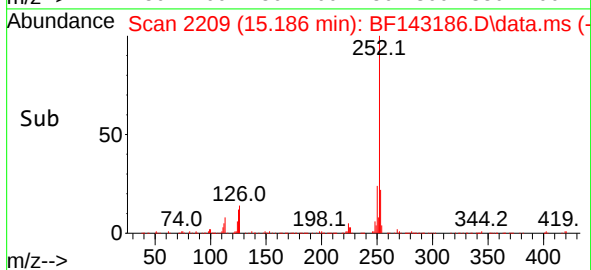
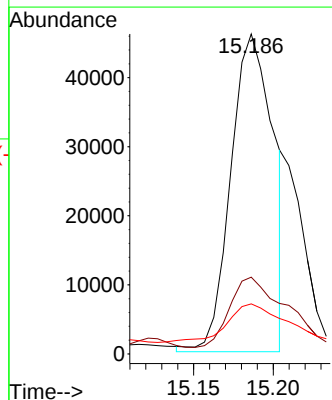
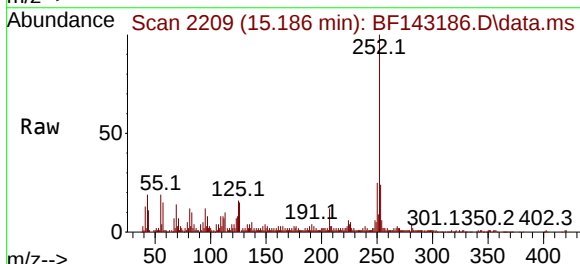
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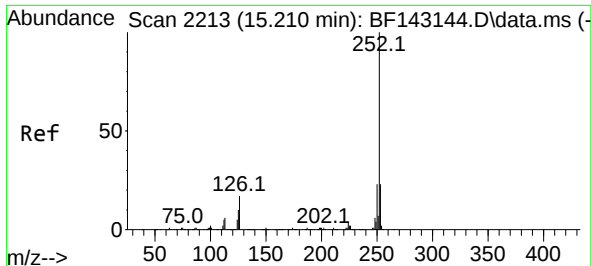
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#88
Benzo(b)fluoranthene
Concen: 8.330 ng m
RT: 15.186 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

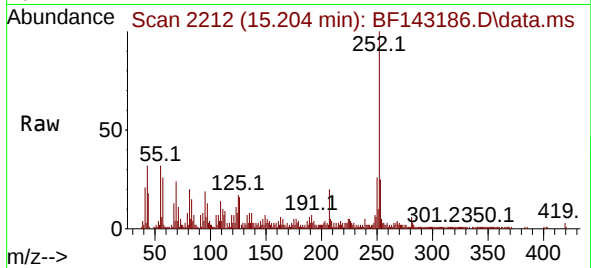
Tgt Ion:252 Resp: 85585
Ion Ratio Lower Upper
252 100
253 24.0 17.5 26.3
125 15.6 8.0 12.0#





#89
Benzo(k)fluoranthene
Concen: 2.839 ng m
RT: 15.204 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

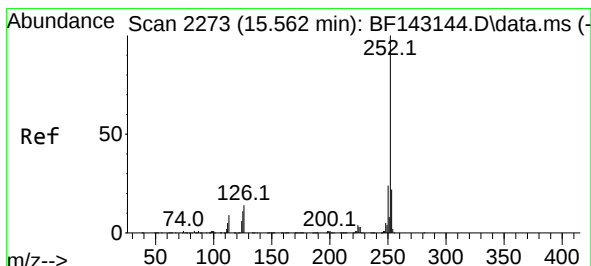
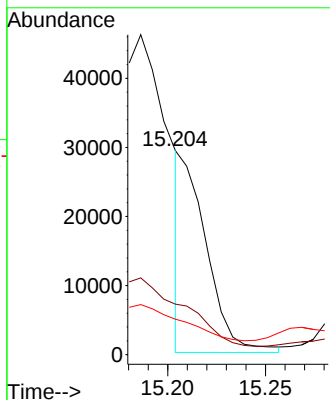
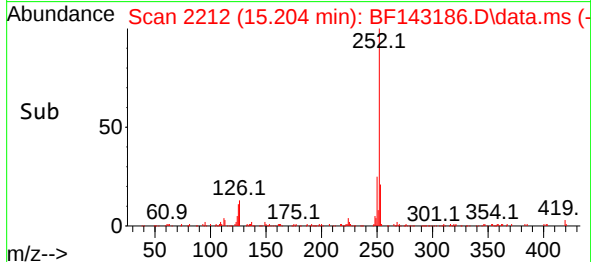
Instrument :
BNA_F
ClientSampleId :
OU4-TS-35-071725



Tgt Ion:252 Resp: 26020
Ion Ratio Lower Upper
252 100
253 24.8 17.8 26.6
125 17.4 8.1 12.1

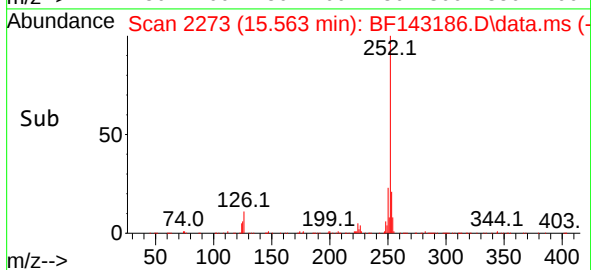
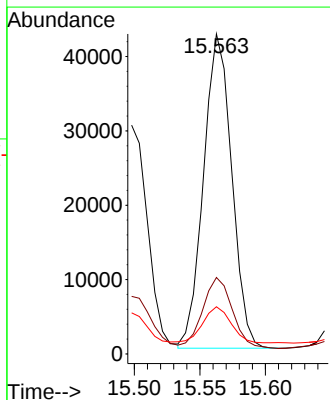
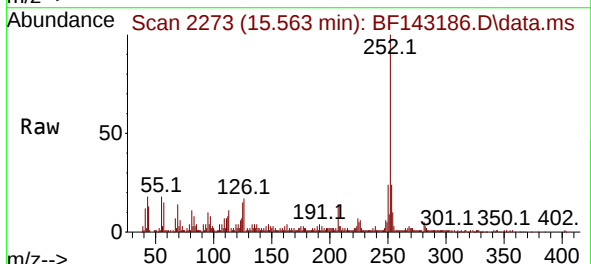
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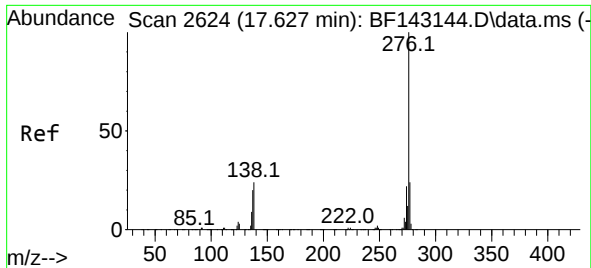
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#90
Benzo(a)pyrene
Concen: 6.676 ng
RT: 15.563 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BF143186.D
Acq: 22 Jul 2025 13:21

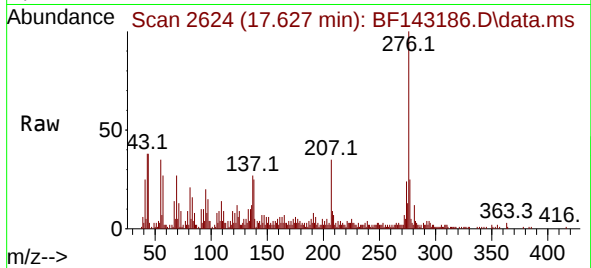
Tgt Ion:252 Resp: 63188
Ion Ratio Lower Upper
252 100
253 23.9 17.3 25.9
125 14.7 8.6 13.0





#92
 Benzo(g,h,i)perylene
 Concen: 4.009 ng
 RT: 17.627 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF143186.D
 Acq: 22 Jul 2025 13:21

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-35-071725



Tgt Ion:	276	Resp:	3743
Ion Ratio	Lower	Upper	
276	100		
277	24.8	19.1	28.7
138	25.2	18.9	28.3

Manual Integrations
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Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

