

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111125\
 Data File : BF144220.D
 Acq On : 11 Nov 2025 23:56
 Operator : RC/JU
 Sample : Q3593-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 D-LAW-25-0156-0166-COMP

Quant Time: Nov 12 03:48:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/12/2025
 Supervised By :Jagrut Upadhyay 11/12/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	76644	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	293204	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	125412	20.000	ng	0.00
64) Phenanthrene-d10	11.421	188	160653	20.000	ng	# 0.02
76) Chrysene-d12	14.062	240	160304	20.000	ng	0.01
86) Perylene-d12	15.539	264	189629	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	284417	58.071	ng	0.00
7) Phenol-d6	6.498	99	326821	58.891	ng	0.00
23) Nitrobenzene-d5	7.433	82	212338	41.826	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	71647	45.526	ng	0.01
45) 2-Fluorobiphenyl	9.227	172	365263	43.016	ng	0.00
79) Terphenyl-d14	13.004	244	258118	25.576	ng	0.01
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	154882	19.363	ng	# 88
75) Fluoranthene	12.639	202	365056	44.181	ng	99
78) Pyrene	12.868	202	340273	26.326	ng	97
81) Benzo(a)anthracene	14.051	228	235344	21.183	ng	97
83) Chrysene	14.086	228	226223	22.057	ng	95
84) Bis(2-ethylhexyl)phtha...	14.027	149	38230	6.234	ng	94
87) Indeno(1,2,3-cd)pyrene	17.033	276	90757	6.667	ng	97
88) Benzo(b)fluoranthene	15.109	252	290724m	26.967	ng	
89) Benzo(k)fluoranthene	15.121	252	115952m	11.491	ng	
90) Benzo(a)pyrene	15.474	252	178637	17.961	ng	96
91) Dibenzo(a,h)anthracene	17.045	278	25078	2.294	ng	# 90
92) Benzo(g,h,i)perylene	17.492	276	85670	7.936	ng	99

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

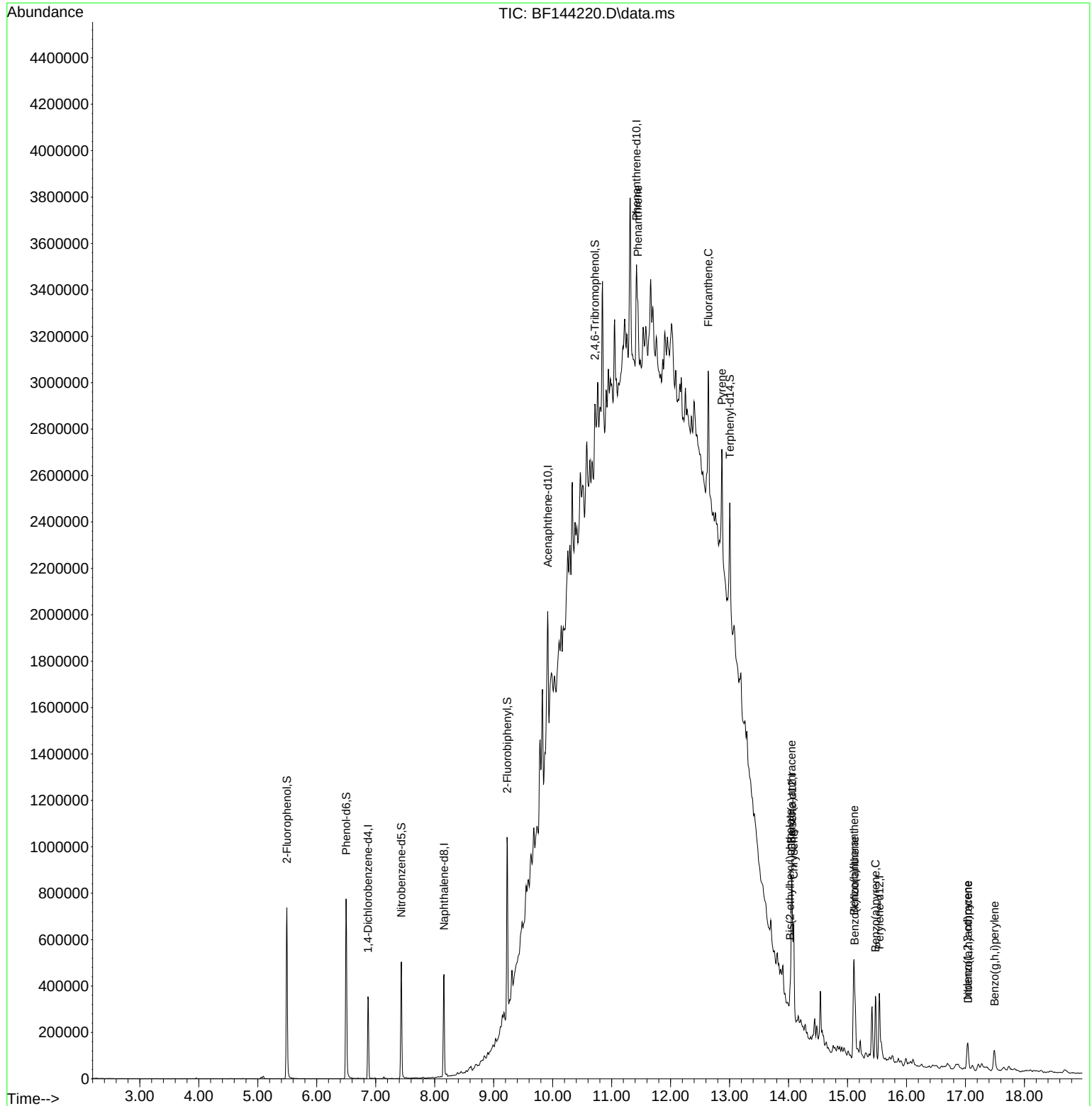
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111125\
Data File : BF144220.D
Acq On : 11 Nov 2025 23:56
Operator : RC/JU
Sample : Q3593-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

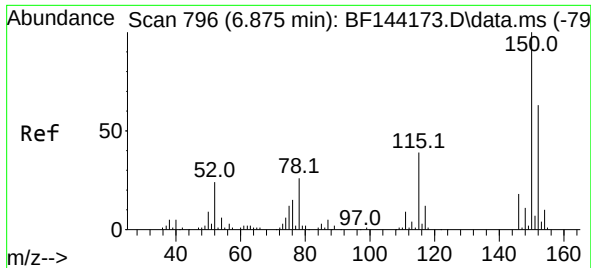
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

Quant Time: Nov 12 03:48:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
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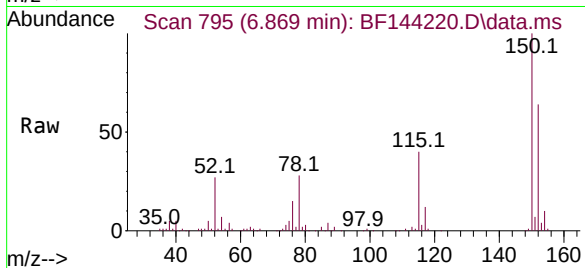
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 796
Delta R.T. -0.006 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

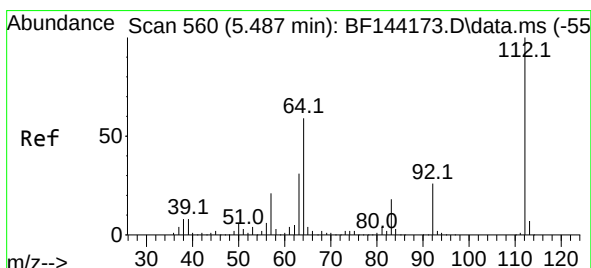
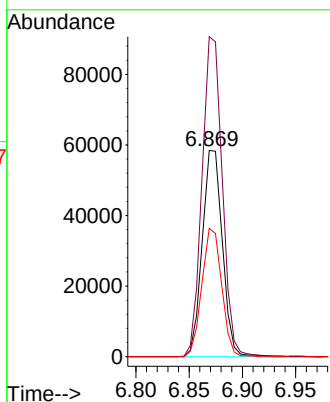
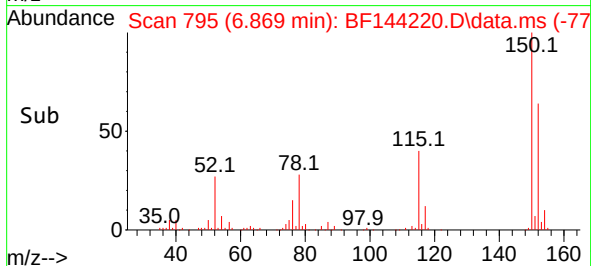
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP



Tgt Ion:152 Resp: 76644
Ion Ratio Lower Upper
152 100
150 155.2 127.4 191.0
115 62.2 49.5 74.3

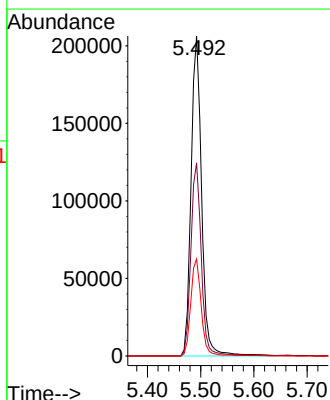
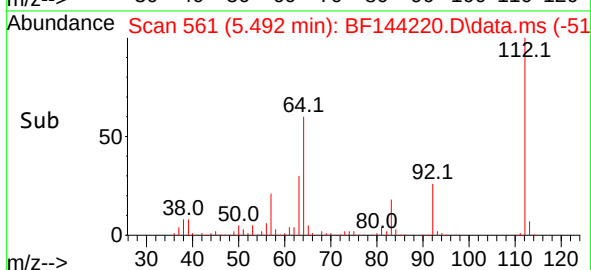
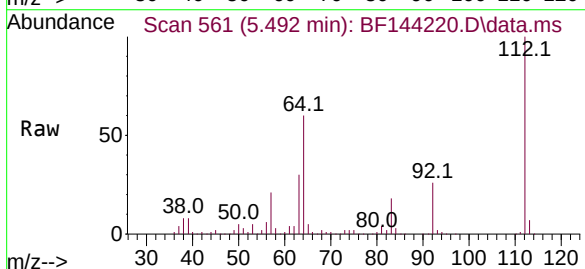
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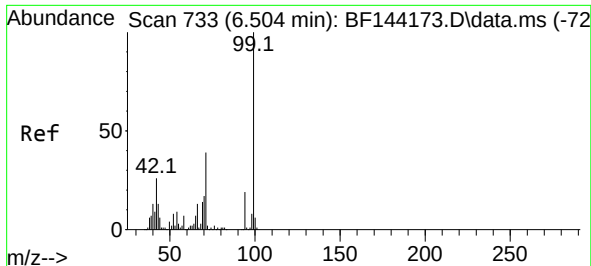
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#5
2-Fluorophenol
Concen: 58.071 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

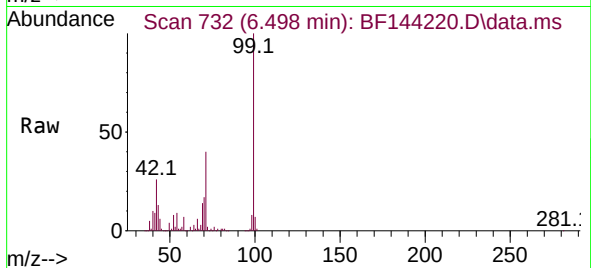
Tgt Ion:112 Resp: 284417
Ion Ratio Lower Upper
112 100
64 60.3 47.2 70.8
63 30.3 24.4 36.6





#7
Phenol-d6
Concen: 58.891 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

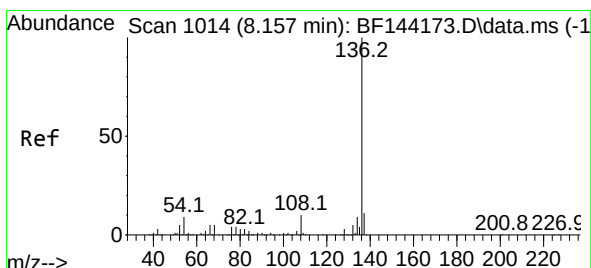
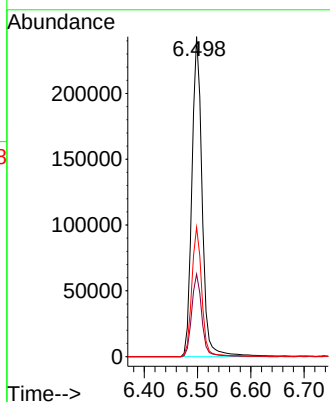
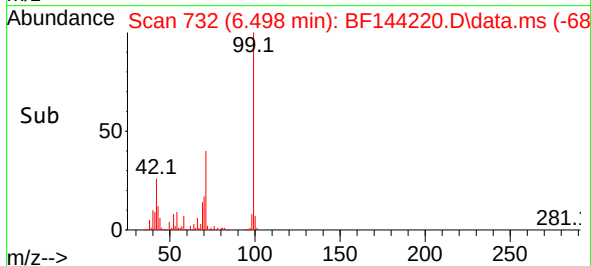
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP



Tgt Ion: 99 Resp: 326821
Ion Ratio Lower Upper
99 100
42 25.8 20.9 31.3
71 40.4 31.4 47.2

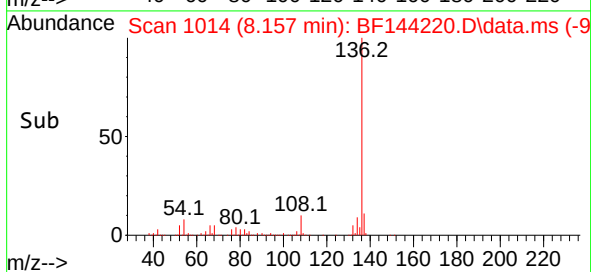
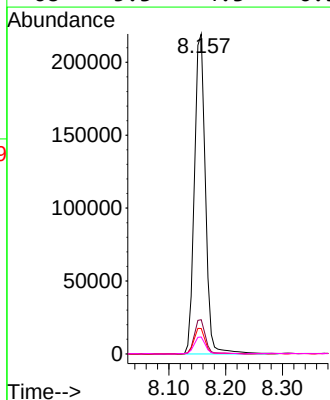
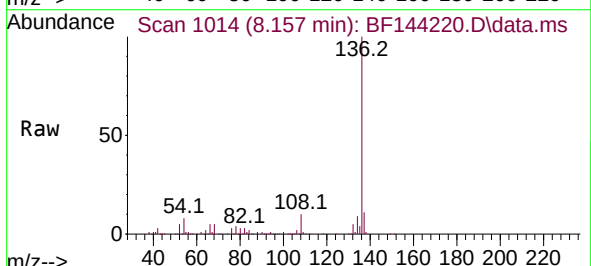
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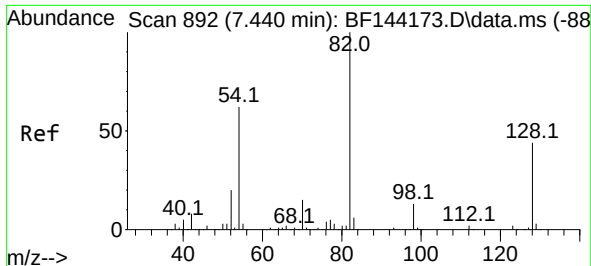
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:136 Resp: 293204
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.9 7.0 10.6
68 5.3 4.3 6.5





#23

Nitrobenzene-d5

Concen: 41.826 ng

RT: 7.433 min Scan# 89

Delta R.T. -0.000 min

Lab File: BF144220.D

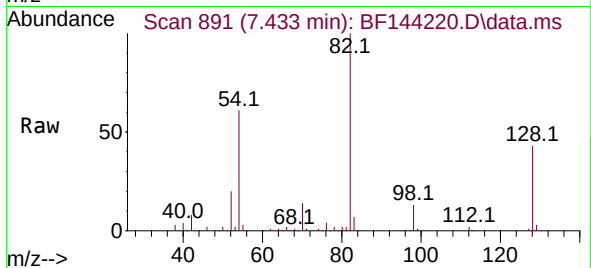
Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP



Tgt Ion: 82 Resp: 212338

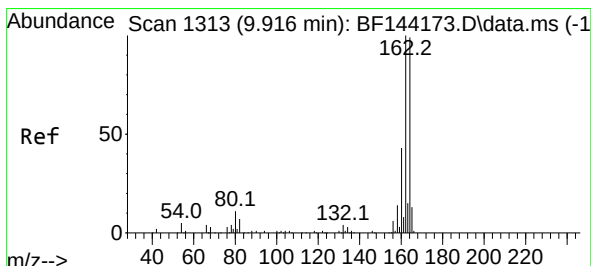
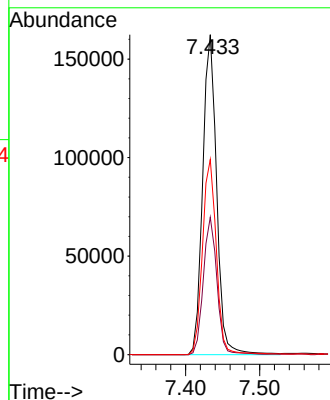
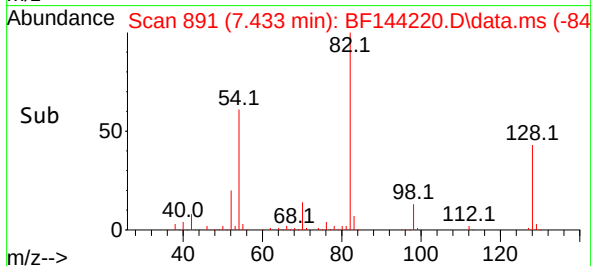
Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.7	52.1
54	61.0	49.5	74.3

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

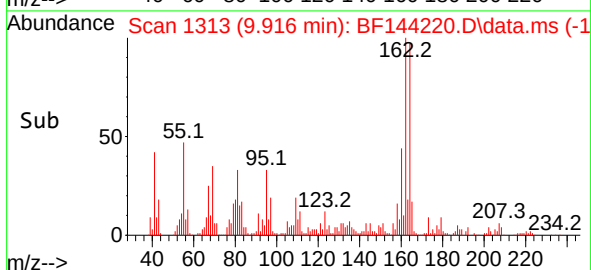
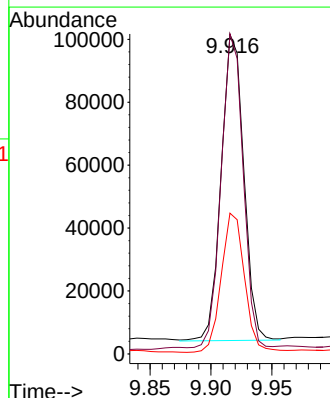
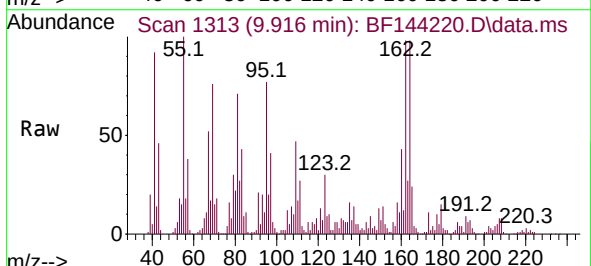
Delta R.T. -0.000 min

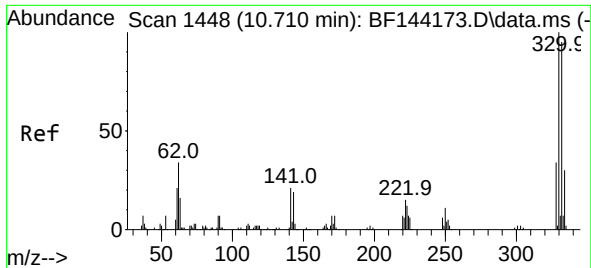
Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Tgt Ion:164 Resp: 125412

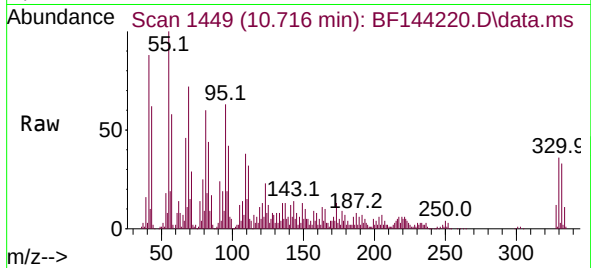
Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.1	121.7
160	44.0	34.5	51.7





#42
2,4,6-Tribromophenol
Concen: 45.526 ng
RT: 10.716 min Scan# 1448
Delta R.T. 0.011 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

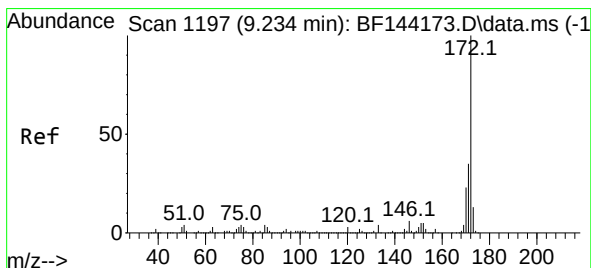
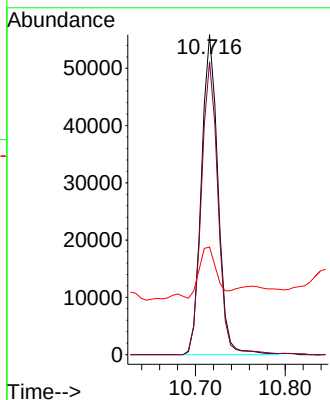
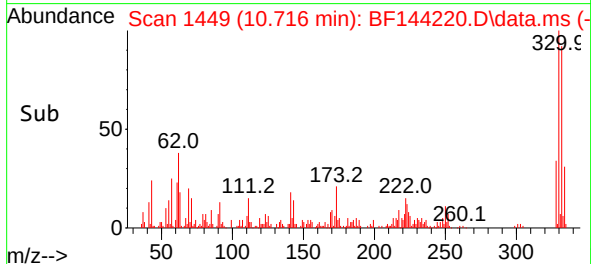
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP



Tgt Ion: 330 Resp: 7164
Ion Ratio Lower Upper
330 100
332 92.8 76.7 115.1
141 17.1 17.8 26.8

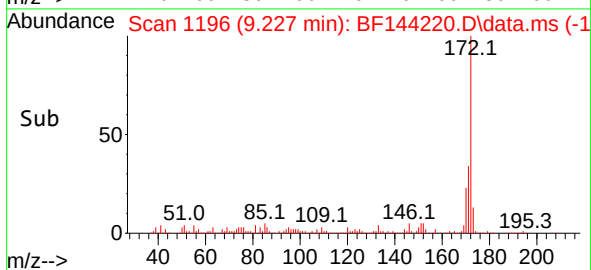
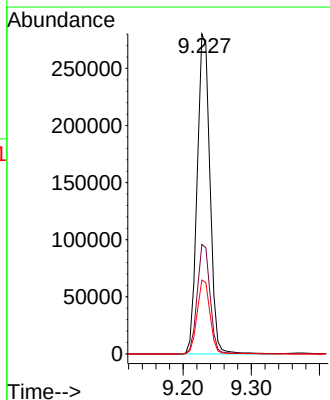
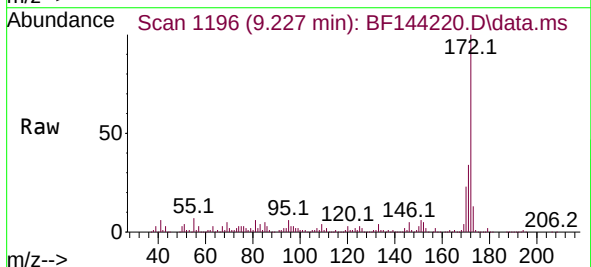
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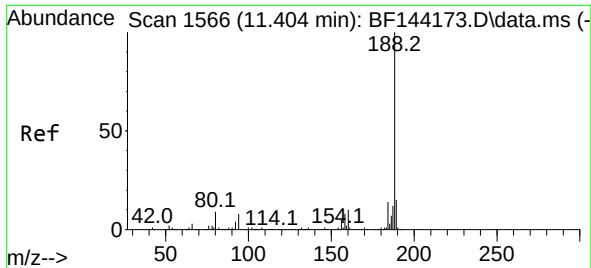
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#45
2-Fluorobiphenyl
Concen: 43.016 ng
RT: 9.227 min Scan# 1196
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

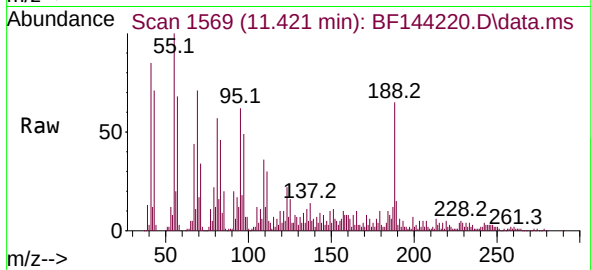
Tgt Ion: 172 Resp: 365263
Ion Ratio Lower Upper
172 100
171 34.2 28.1 42.1
170 23.1 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1569
Delta R.T. 0.017 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

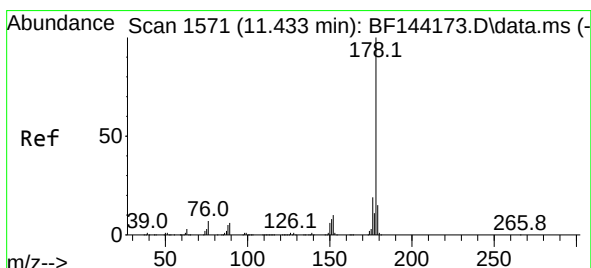
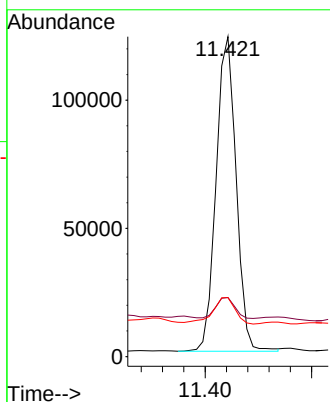
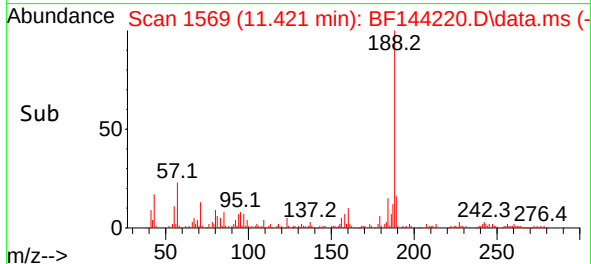
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP



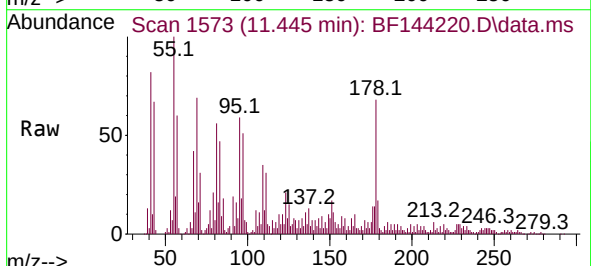
Tgt Ion:188 Resp: 160653
Ion Ratio Lower Upper
188 100
94 18.5 6.2 9.2
80 18.4 6.9 10.3

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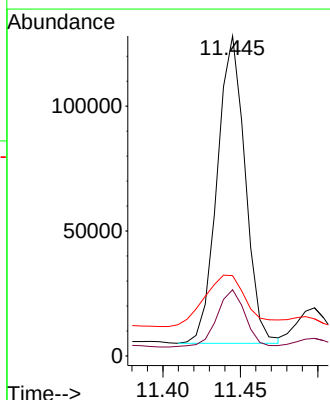
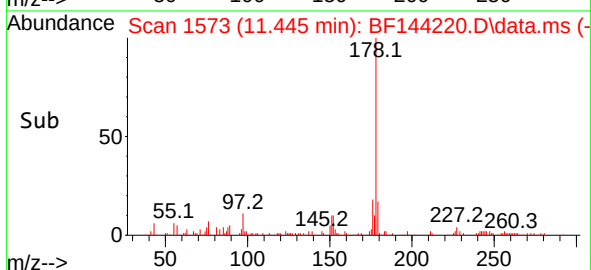
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Supervised By :Jagrut Upadhyay 11/12/2025

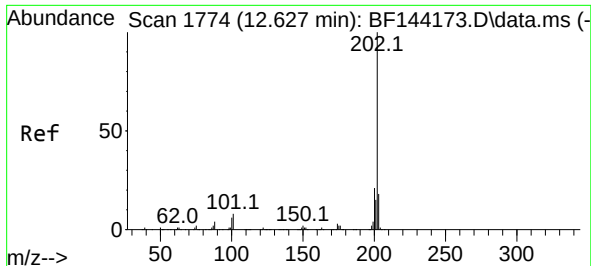


#71
Phenanthrene
Concen: 19.363 ng
RT: 11.445 min Scan# 1573
Delta R.T. 0.017 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56



Tgt Ion:178 Resp: 154882
Ion Ratio Lower Upper
178 100
176 20.7 15.5 23.3
179 25.1 12.2 18.4





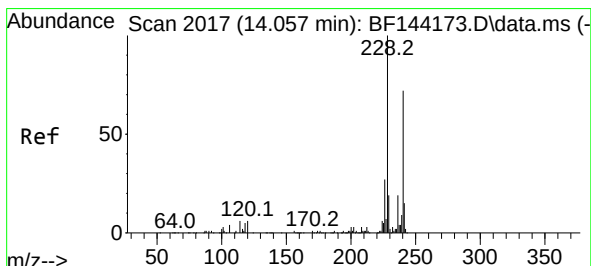
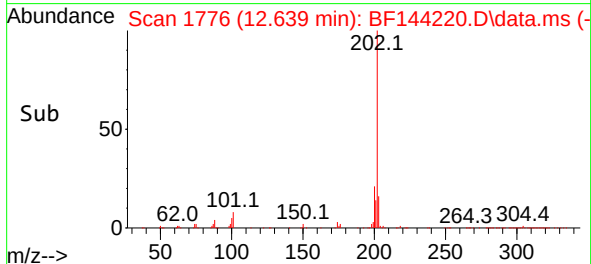
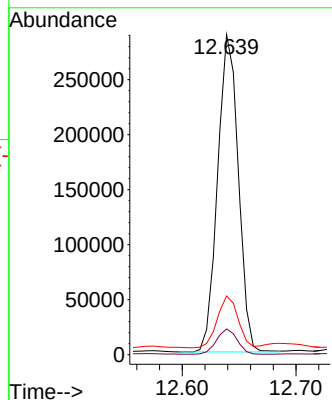
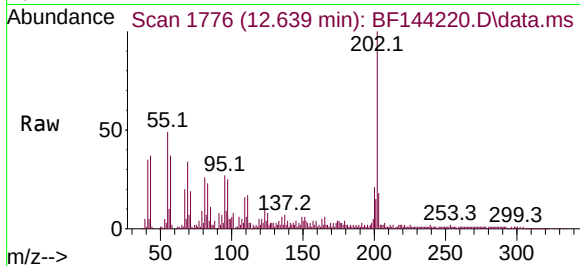
#75
Fluoranthene
Concen: 44.181 ng
RT: 12.639 min Scan# 11
Delta R.T. 0.017 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP

Tgt Ion:202 Resp: 365056
Ion Ratio Lower Upper
202 100
101 8.0 0.0 27.9
203 18.3 0.0 37.5

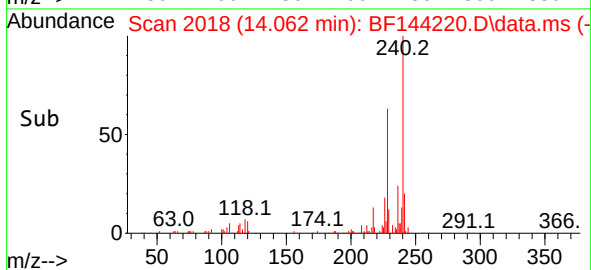
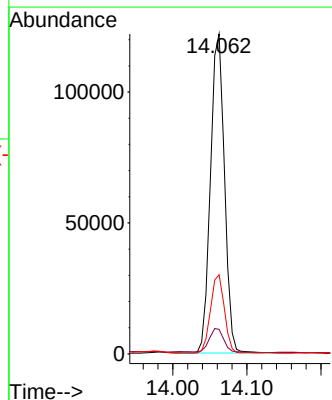
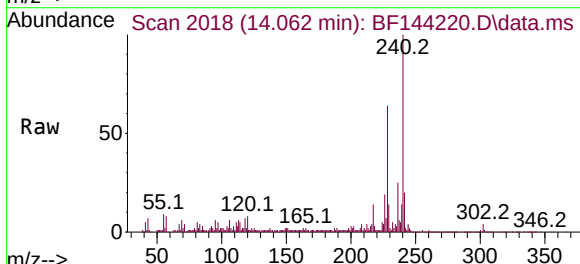
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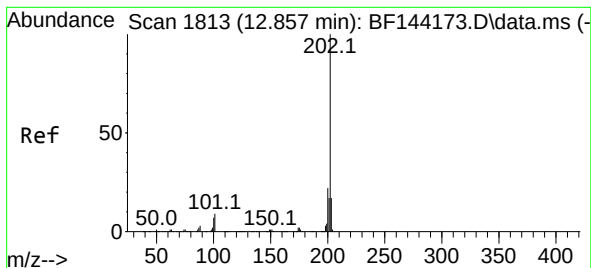
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.062 min Scan# 2018
Delta R.T. 0.011 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:240 Resp: 160304
Ion Ratio Lower Upper
240 100
120 7.7 6.6 10.0
236 24.7 21.4 32.2





#78

Pyrene

Concen: 26.326 ng

RT: 12.868 min Scan# 1813

Delta R.T. 0.017 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

Tgt Ion:202 Resp: 340273

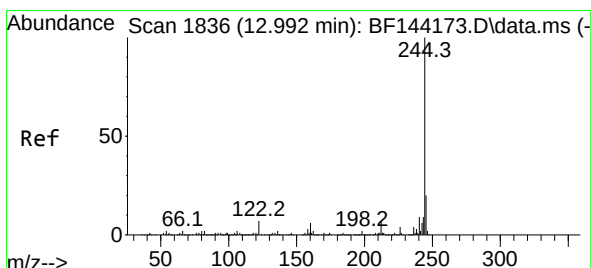
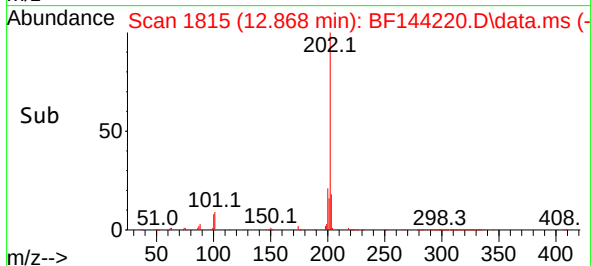
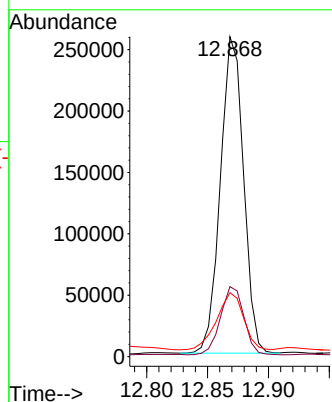
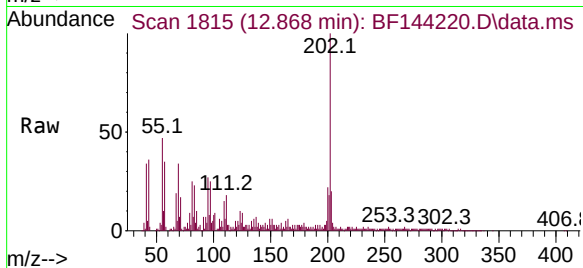
Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.2	25.8
203	20.0	13.7	20.5

Manual Integrations

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#79

Terphenyl-d14

Concen: 25.576 ng

RT: 13.004 min Scan# 1838

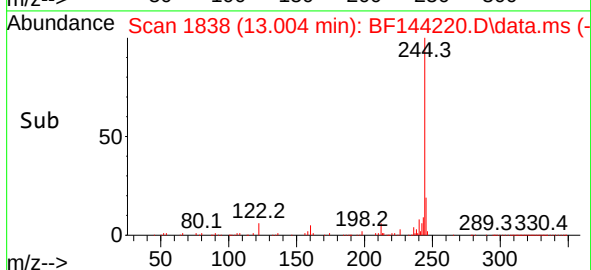
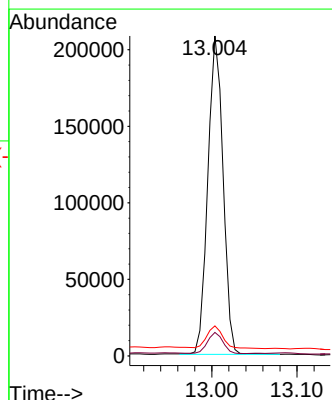
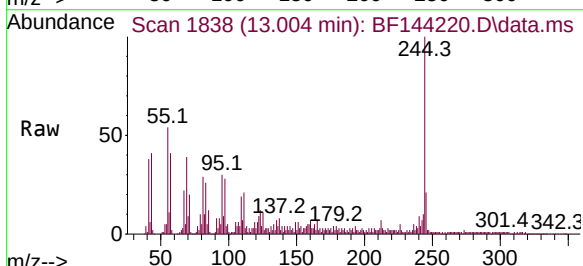
Delta R.T. 0.011 min

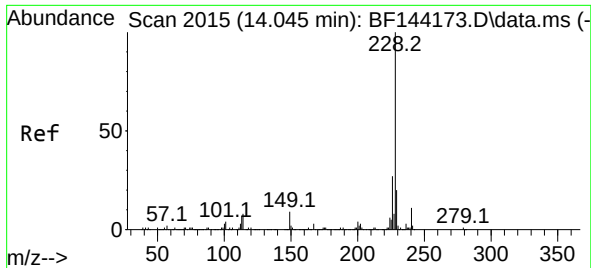
Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Tgt Ion:244 Resp: 258118

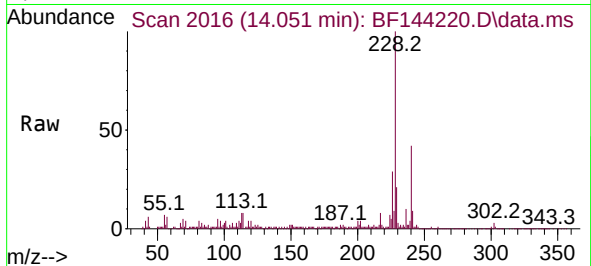
Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.3	7.9
122	9.4	5.6	8.4





#81
Benzo(a)anthracene
Concen: 21.183 ng
RT: 14.051 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

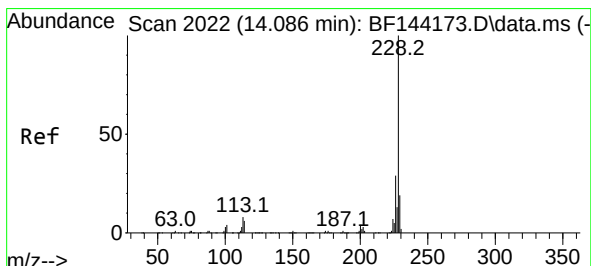
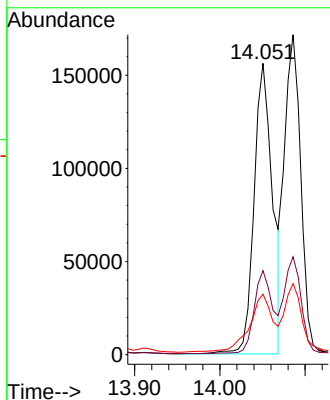
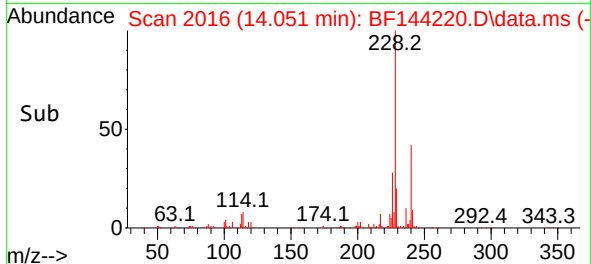
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP



Tgt Ion:228 Resp: 235344
Ion Ratio Lower Upper
228 100
226 28.8 21.8 32.8
229 20.7 15.8 23.6

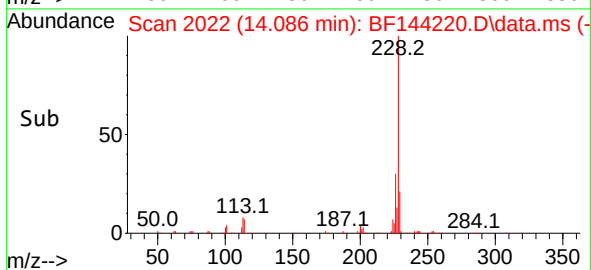
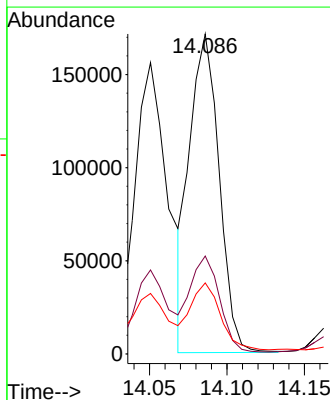
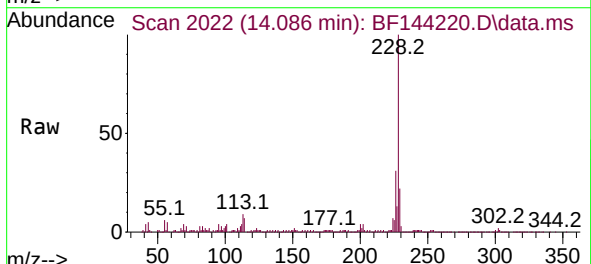
Manual Integrations
APPROVED

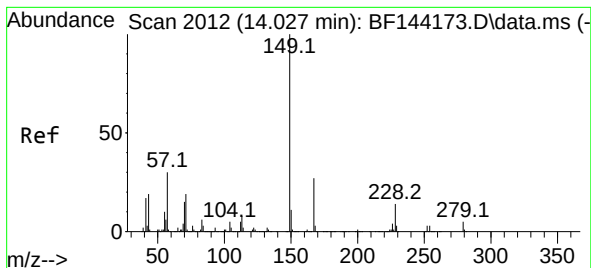
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#83
Chrysene
Concen: 22.057 ng
RT: 14.086 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

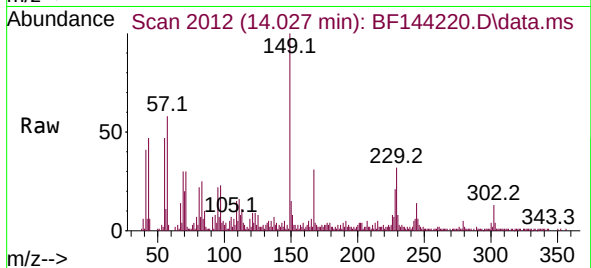
Tgt Ion:228 Resp: 226223
Ion Ratio Lower Upper
228 100
226 30.6 22.9 34.3
229 22.2 15.0 22.6





#84
Bis(2-ethylhexyl)phthalate
Concen: 6.234 ng
RT: 14.027 min Scan# 2012
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

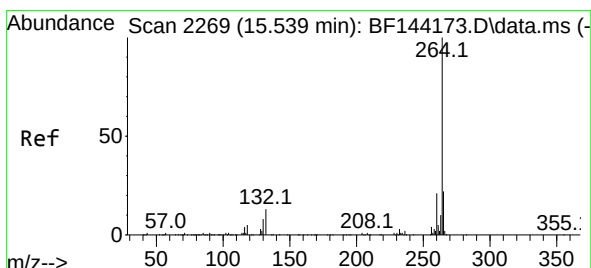
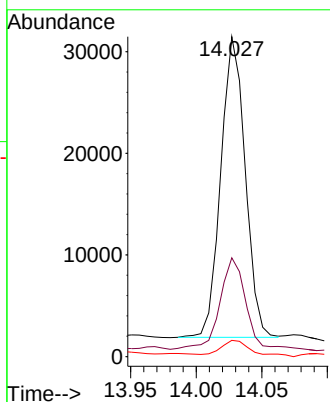
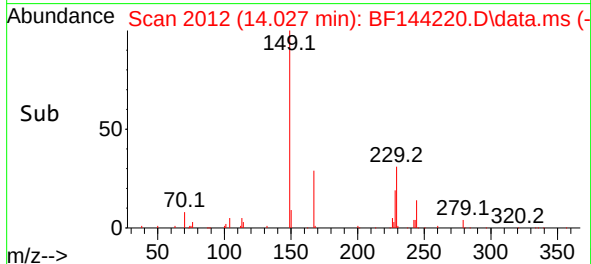
Instrument : BNA_F
ClientSampleId : D-LAW-25-0156-0166-COMP



Tgt Ion:149 Resp: 38230
Ion Ratio Lower Upper
149 100
167 30.9 21.8 32.8
279 5.1 3.7 5.5

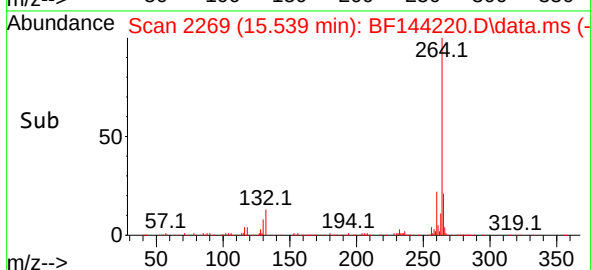
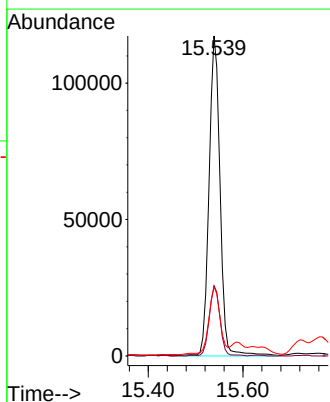
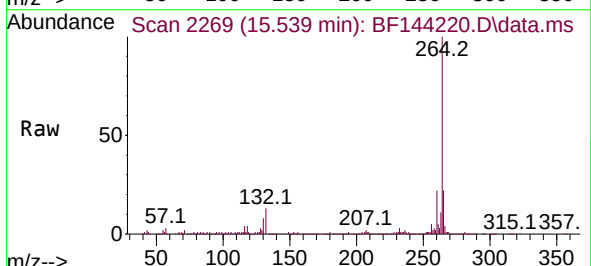
Manual Integrations
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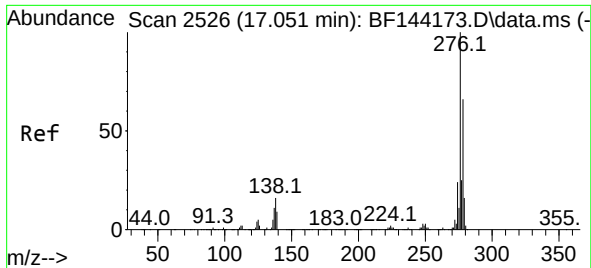
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

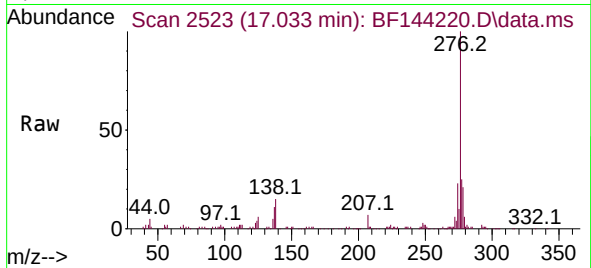
Tgt Ion:264 Resp: 189629
Ion Ratio Lower Upper
264 100
260 21.9 17.1 25.7
265 21.6 17.4 26.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.667 ng
RT: 17.033 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

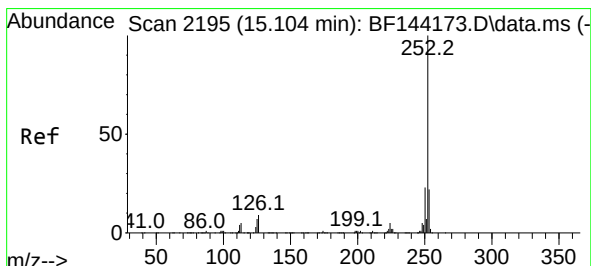
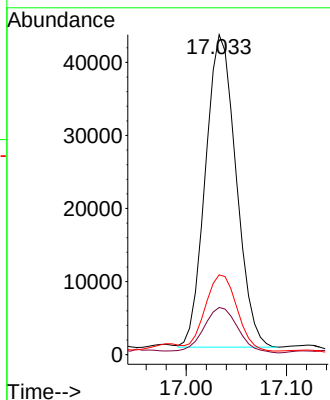
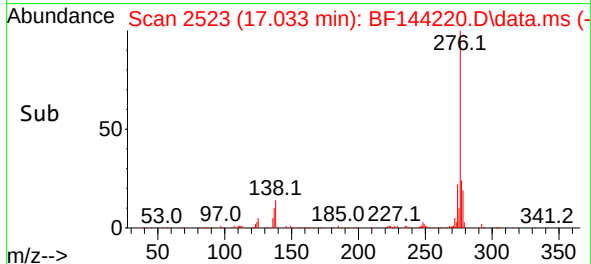
Instrument :
BNA_F
ClientSampleId :
D-LAW-25-0156-0166-COMP



Tgt Ion:276 Resp: 90752
Ion Ratio Lower Upper
276 100
138 16.5 13.9 20.9
277 26.6 19.8 29.6

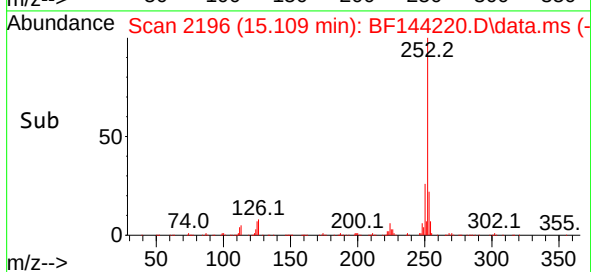
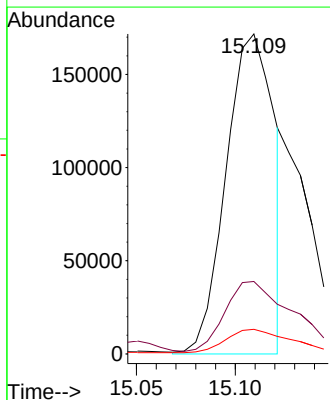
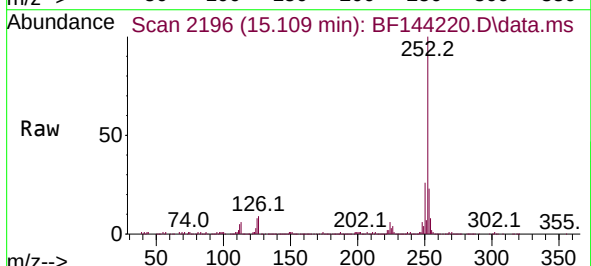
Manual Integrations
APPROVED

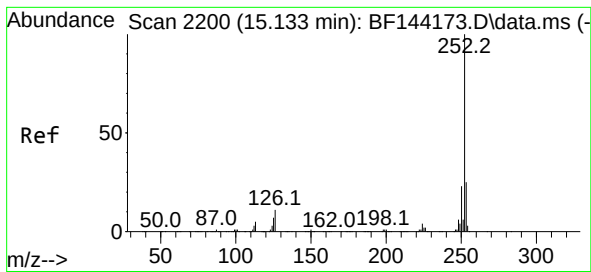
Reviewed By :Rahul Chavli 11/12/2025
Supervised By :Jagrut Upadhyay 11/12/2025



#88
Benzo(b)fluoranthene
Concen: 26.967 ng m
RT: 15.109 min Scan# 2196
Delta R.T. 0.011 min
Lab File: BF144220.D
Acq: 11 Nov 2025 23:56

Tgt Ion:252 Resp: 290724
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 7.7 5.3 7.9





#89

Benzo(k)fluoranthene

Concen: 11.491 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

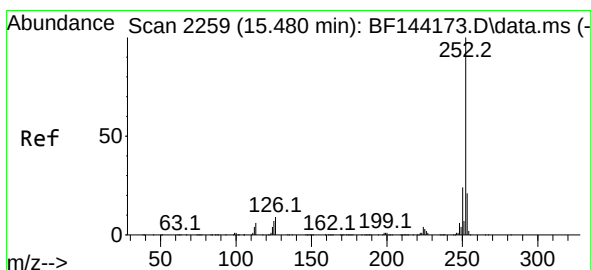
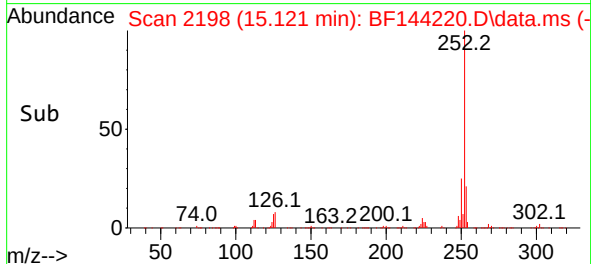
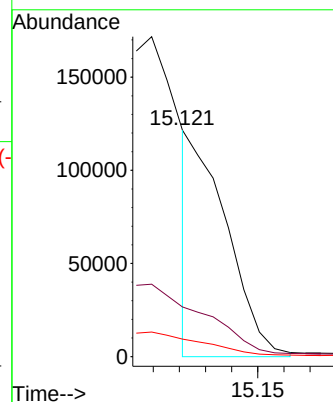
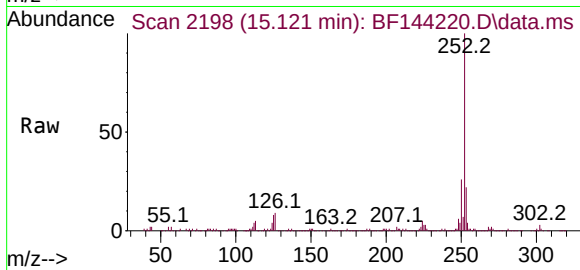
D-LAW-25-0156-0166-COMP

Tgt Ion:252 Resp: 115952
 Ion Ratio Lower Upper
 252 100
 253 21.9 18.0 27.0
 125 7.7 5.4 8.2

Manual Integrations

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Reviewed By :Rahul Chavli 11/12/2025
 Supervised By :Jagrut Upadhyay 11/12/2025



#90

Benzo(a)pyrene

Concen: 17.961 ng

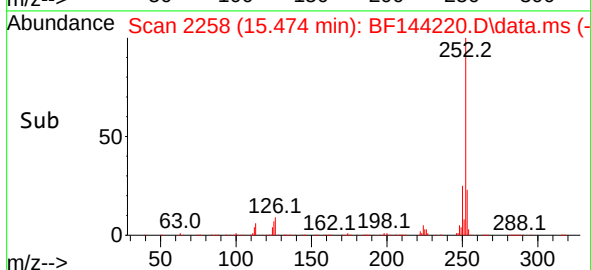
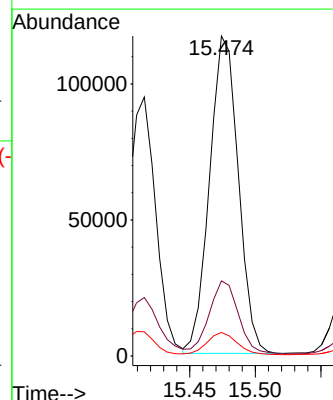
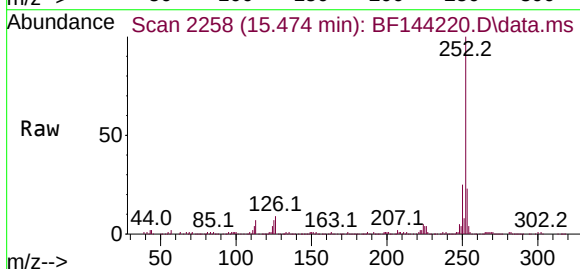
RT: 15.474 min Scan# 2258

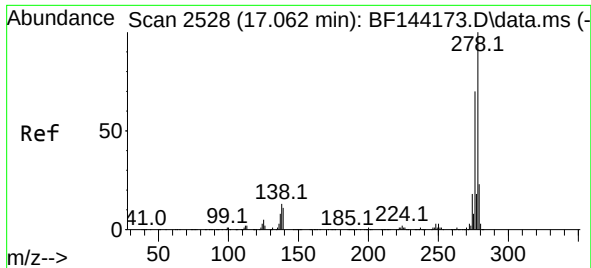
Delta R.T. -0.000 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Tgt Ion:252 Resp: 178637
 Ion Ratio Lower Upper
 252 100
 253 23.4 16.7 25.1
 125 7.3 5.7 8.5





#91

Dibenzo(a,h)anthracene

Concen: 2.294 ng

RT: 17.045 min Scan# 2525

Delta R.T. -0.006 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Instrument :

BNA_F

ClientSampleId :

D-LAW-25-0156-0166-COMP

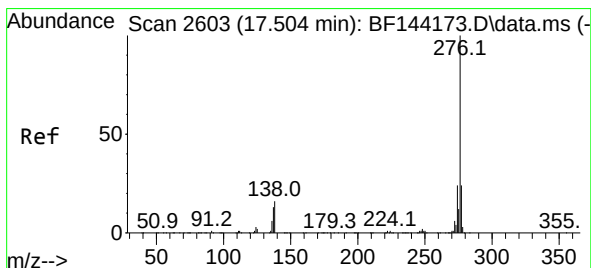
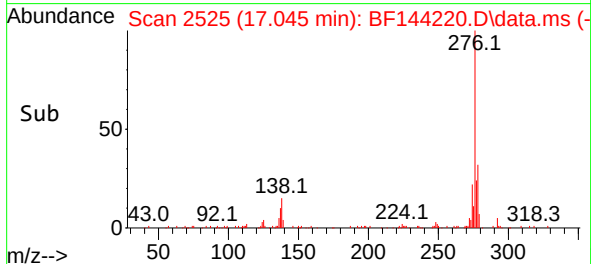
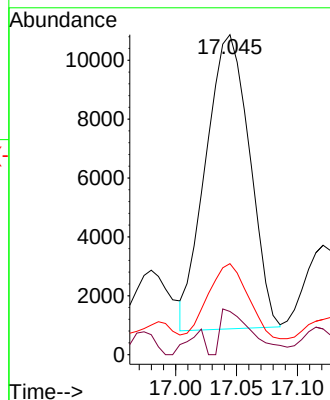
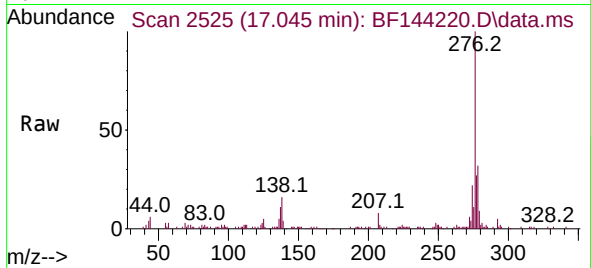
Tgt Ion:278	Resp:	25078
Ion Ratio	Lower	Upper
278	100	
139	13.5	9.1 13.7
279	28.4	18.2 27.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 11/12/2025

Supervised By :Jagrut Upadhyay 11/12/2025



#92

Benzo(g,h,i)perylene

Concen: 7.936 ng

RT: 17.492 min Scan# 2601

Delta R.T. -0.000 min

Lab File: BF144220.D

Acq: 11 Nov 2025 23:56

Tgt Ion:276	Resp:	85670
Ion Ratio	Lower	Upper
276	100	
277	24.2	19.0 28.4
138	16.6	12.9 19.3

