

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
 Data File : BF143451.D
 Acq On : 19 Aug 2025 12:33
 Operator : RC/JU
 Sample : Q2879-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP03-081425

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/20/2025
 Supervised By :Jagrut Upadhyay 08/20/2025

Quant Time: Aug 19 13:04:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF081525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 18 04:40:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.922	152	112068	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	363238	20.000	ng	0.00
39) Acenaphthene-d10	9.957	164	160000	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	250451	20.000	ng	0.00
76) Chrysene-d12	14.086	240	332982	20.000	ng	0.00
86) Perylene-d12	15.574	264	251746	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	514922	79.871	ng	0.00
7) Phenol-d6	6.551	99	603558	74.288	ng	0.00
23) Nitrobenzene-d5	7.481	82	394310	64.415	ng	0.00
42) 2,4,6-Tribromophenol	10.745	330	114676	80.524	ng	0.00
45) 2-Fluorobiphenyl	9.275	172	641653	67.453	ng	0.00
79) Terphenyl-d14	13.027	244	761672	38.426	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.469	178	34395	2.536	ng	99
75) Fluoranthene	12.657	202	142665	11.839	ng	99
78) Pyrene	12.886	202	134822	4.658	ng	98
81) Benzo(a)anthracene	14.074	228	100221	4.728	ng	93
83) Chrysene	14.110	228	98423	5.022	ng	98
84) Bis(2-ethylhexyl)phtha...	14.057	149	30771	3.023	ng	99
88) Benzo(b)fluoranthene	15.139	252	122765m	9.099	ng	
89) Benzo(k)fluoranthene	15.157	252	42148m	3.167	ng	
90) Benzo(a)pyrene	15.515	252	68496	5.330	ng	# 94
92) Benzo(g,h,i)perylene	17.562	276	34558	2.282	ng	96

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

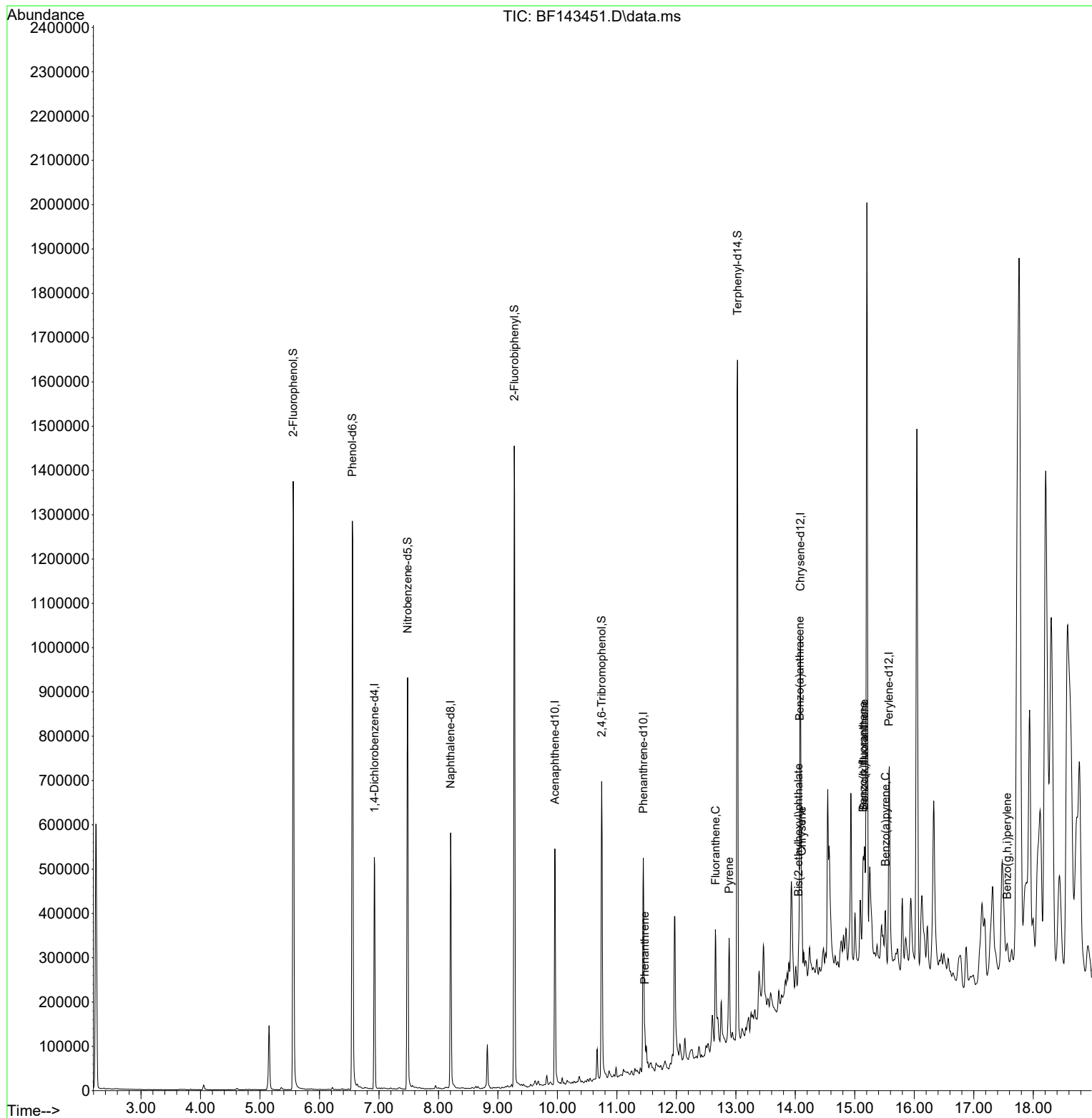
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
Data File : BF143451.D
Acq On : 19 Aug 2025 12:33
Operator : RC/JU
Sample : Q2879-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

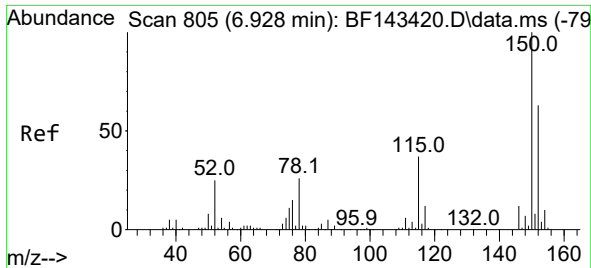
Instrument :
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OU4-TS-GRILLO-TSCP03-081425

Quant Time: Aug 19 13:04:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF081525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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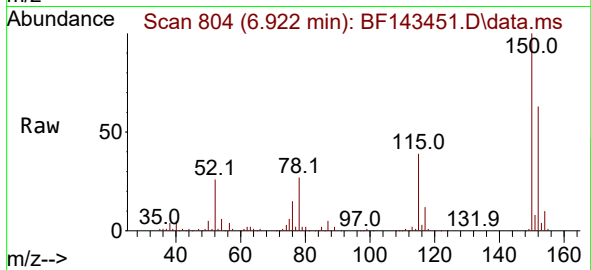
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.922 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

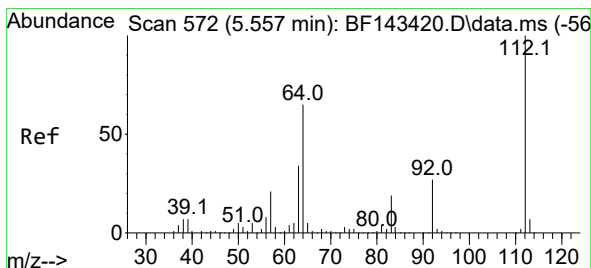
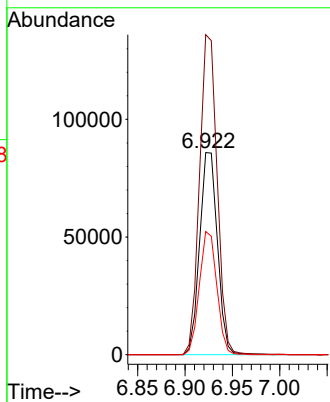
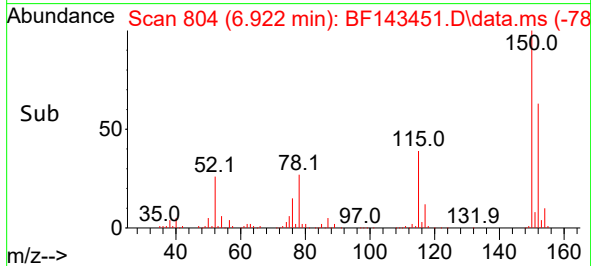
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP03-081425



Tgt Ion:152 Resp: 112068
Ion Ratio Lower Upper
152 100
150 158.3 127.4 191.2
115 61.0 47.5 71.3

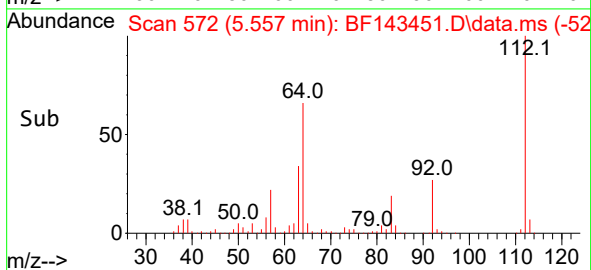
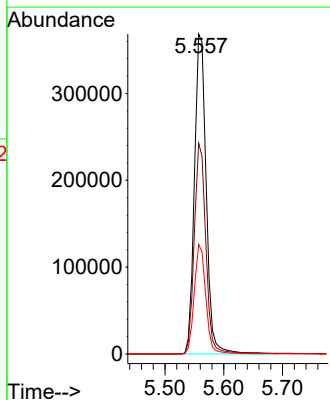
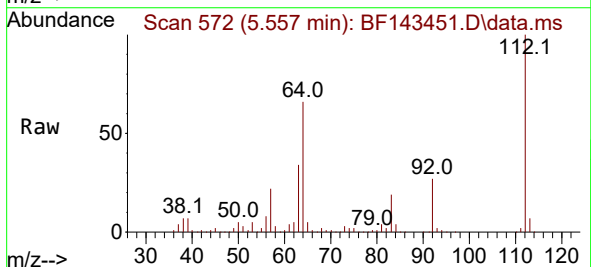
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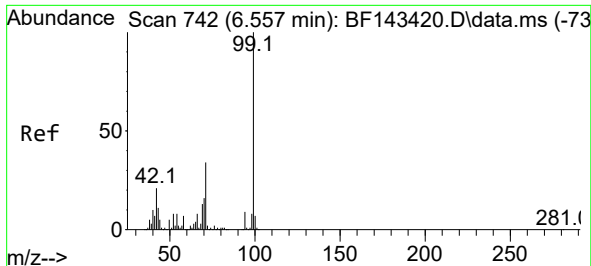
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Supervised By :Jagrut Upadhyay 08/20/2025



#5
2-Fluorophenol
Concen: 79.871 ng
RT: 5.557 min Scan# 572
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

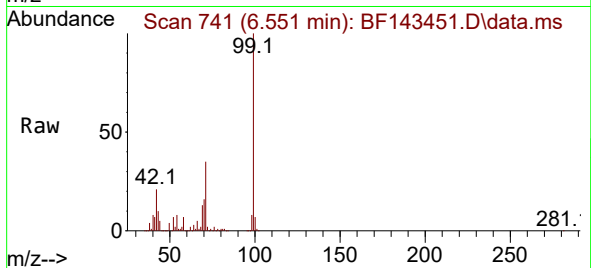
Tgt Ion:112 Resp: 514922
Ion Ratio Lower Upper
112 100
64 65.9 52.2 78.2
63 34.2 27.0 40.6





#7
Phenol-d6
Concen: 74.288 ng
RT: 6.551 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

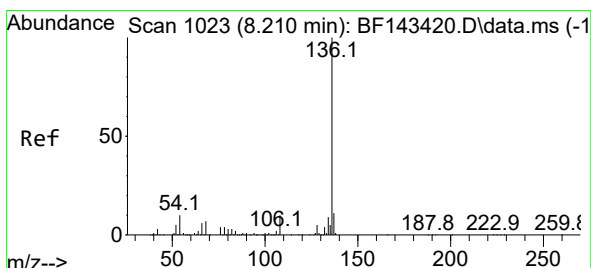
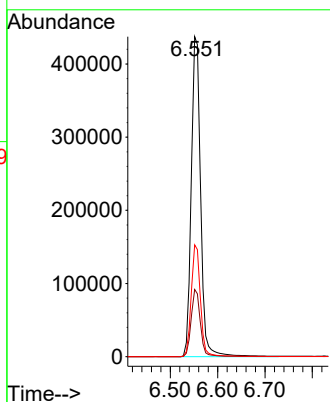
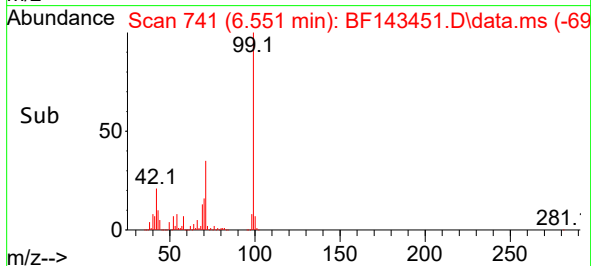
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP03-081425



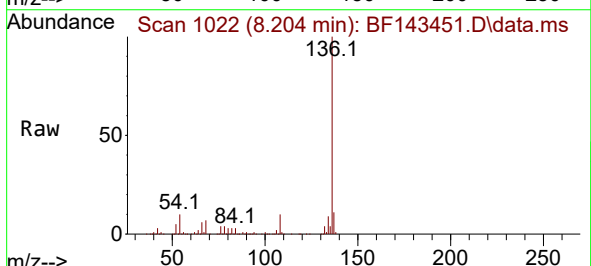
Tgt Ion: 99 Resp: 603558
Ion Ratio Lower Upper
99 100
42 21.0 17.0 25.6
71 34.9 27.4 41.2

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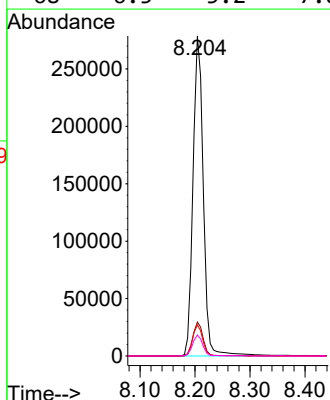
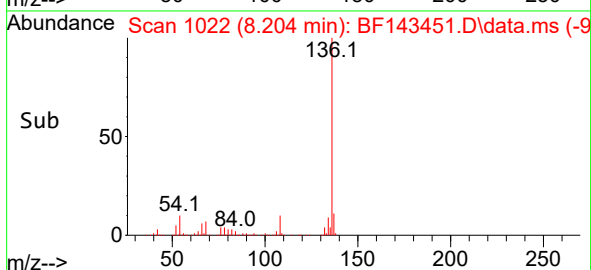
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

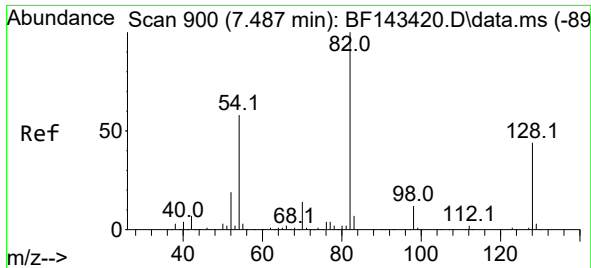


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33



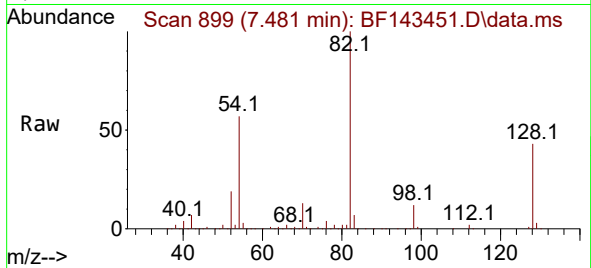
Tgt Ion:136 Resp: 363238
Ion Ratio Lower Upper
136 100
137 10.6 8.8 13.2
54 9.7 7.8 11.8
68 6.5 5.2 7.8





#23
Nitrobenzene-d5
Concen: 64.415 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

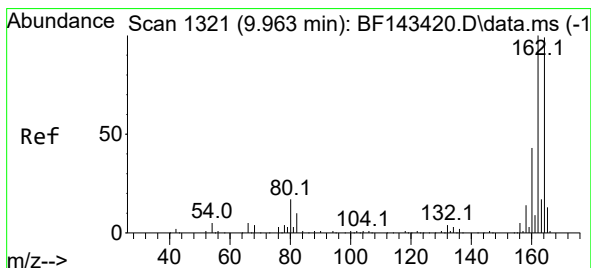
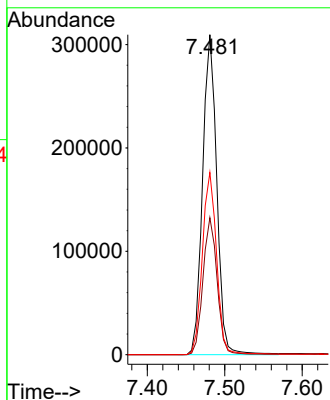
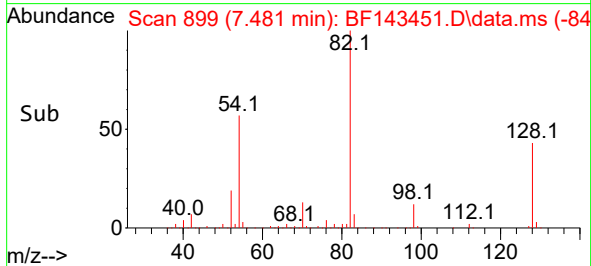
Instrument : BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP03-081425



Tgt Ion: 82 Resp: 394310
Ion Ratio Lower Upper
82 100
128 42.8 34.6 52.0
54 56.9 46.0 69.0

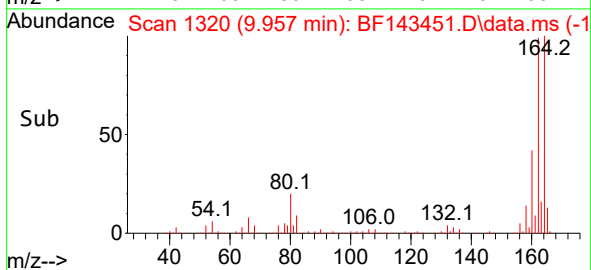
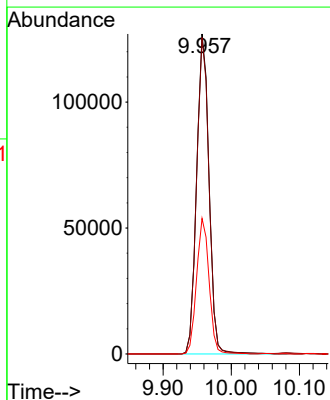
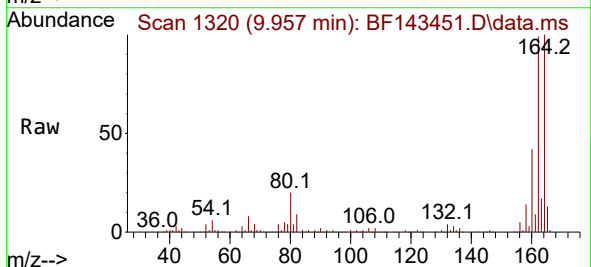
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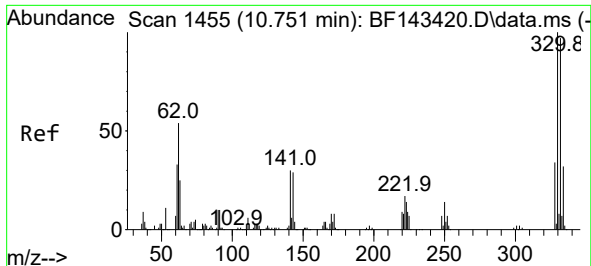
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

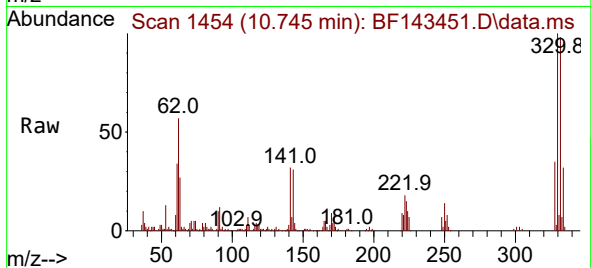
Tgt Ion:164 Resp: 160000
Ion Ratio Lower Upper
164 100
162 98.9 80.6 121.0
160 42.4 34.6 51.8





#42
2,4,6-Tribromophenol
Concen: 80.524 ng
RT: 10.745 min Scan# 1455
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

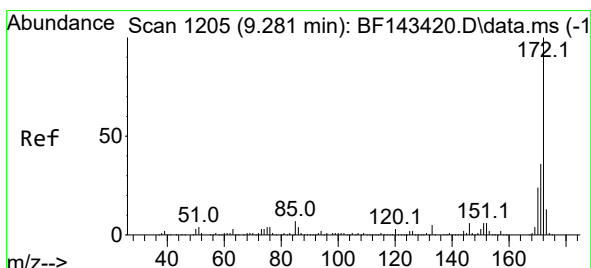
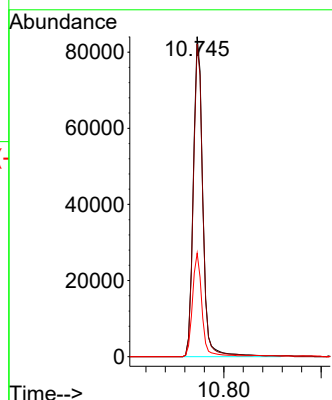
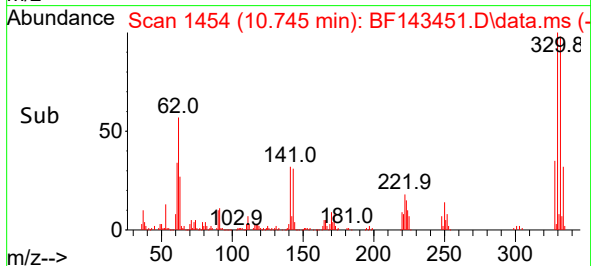
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP03-081425



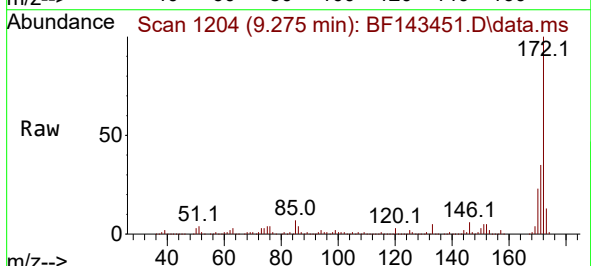
Tgt Ion: 330 Resp: 114670
Ion Ratio Lower Upper
330 100
332 97.1 77.4 116.2
141 32.2 24.1 36.1

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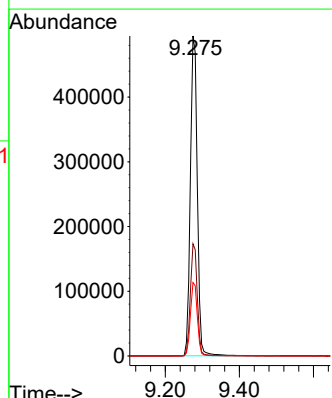
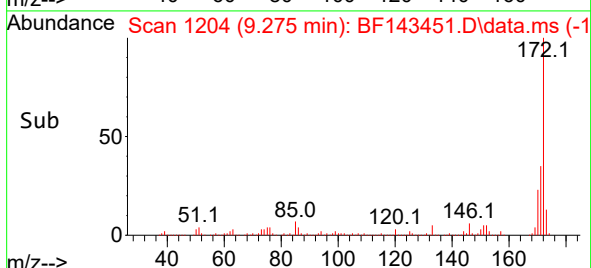
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

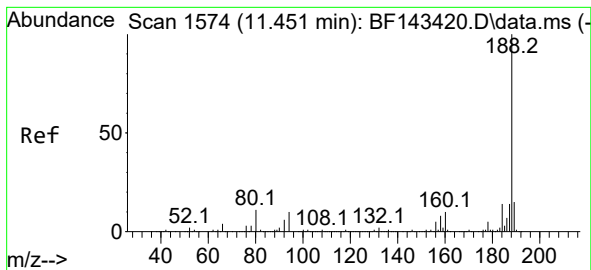


#45
2-Fluorobiphenyl
Concen: 67.453 ng
RT: 9.275 min Scan# 1204
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33



Tgt Ion: 172 Resp: 641653
Ion Ratio Lower Upper
172 100
171 35.1 28.7 43.1
170 23.0 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.445 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143451.D

Acq: 19 Aug 2025 12:33

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP03-081425

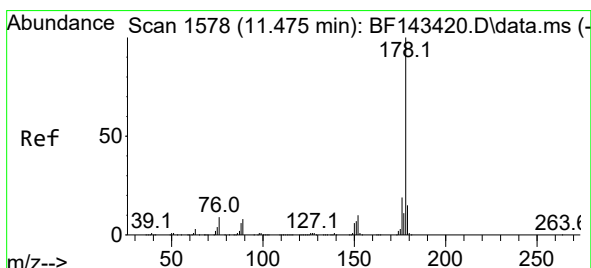
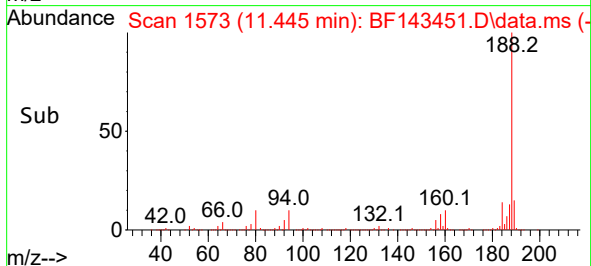
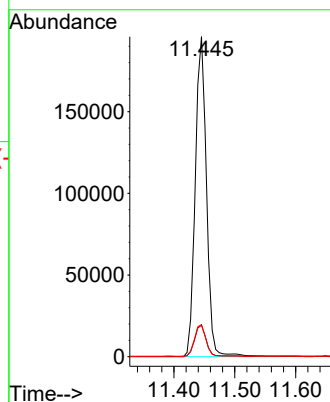
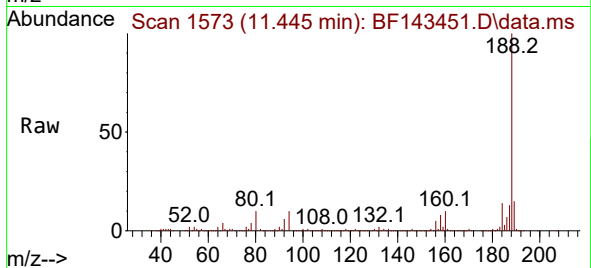
Tgt Ion:188 Resp: 25045
 Ion Ratio Lower Upper
 188 100
 94 9.8 8.0 12.0
 80 10.0 8.6 12.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/20/2025



#71

Phenanthrene

Concen: 2.536 ng

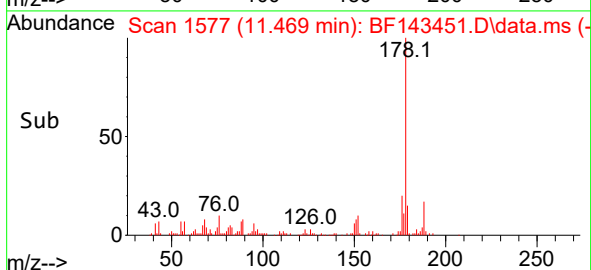
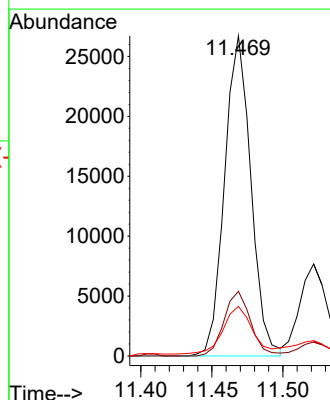
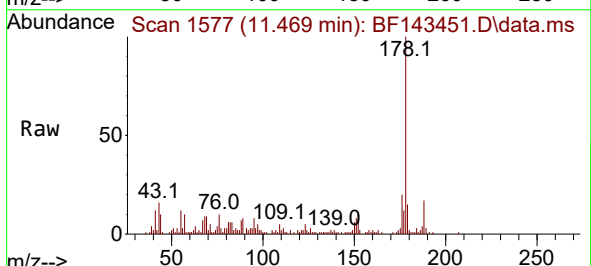
RT: 11.469 min Scan# 1577

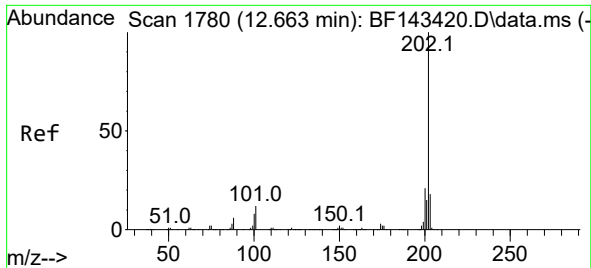
Delta R.T. -0.006 min

Lab File: BF143451.D

Acq: 19 Aug 2025 12:33

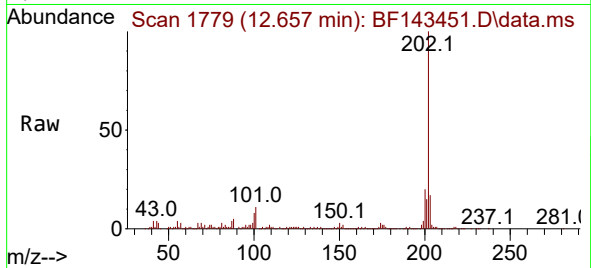
Tgt Ion:178 Resp: 34395
 Ion Ratio Lower Upper
 178 100
 176 20.2 15.4 23.0
 179 15.5 12.3 18.5





#75
Fluoranthene
Concen: 11.839 ng
RT: 12.657 min Scan# 1779
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

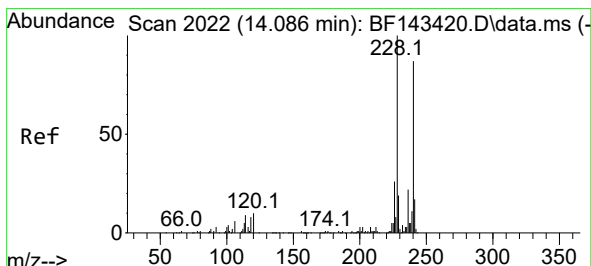
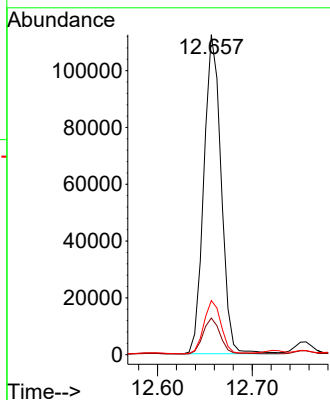
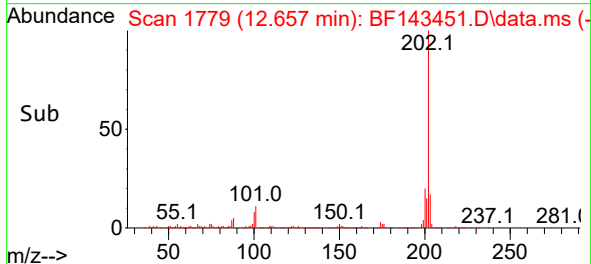
Instrument :
BNA_F
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OU4-TS-GRILLO-TSCP03-081425



Tgt Ion:202 Resp: 14266
Ion Ratio Lower Upper
202 100
101 11.5 0.0 31.5
203 16.9 0.0 37.5

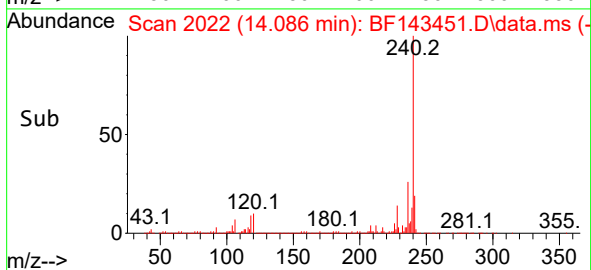
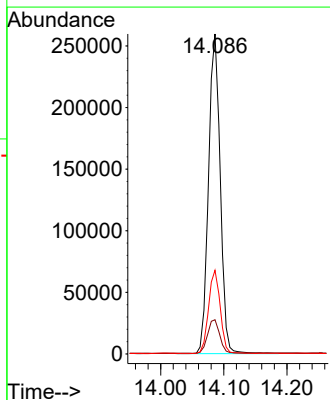
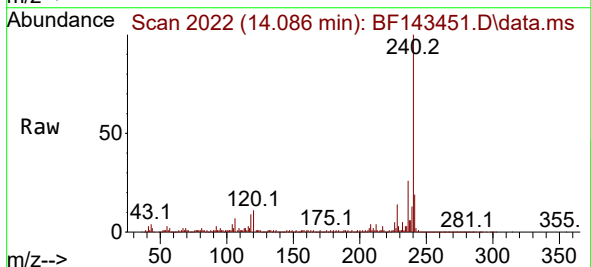
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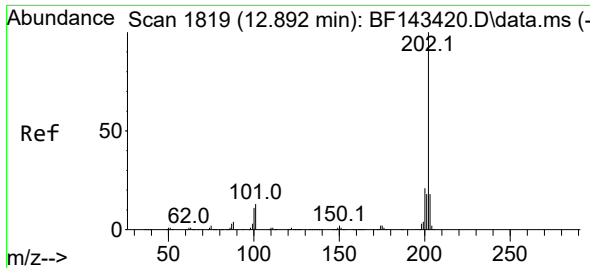
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

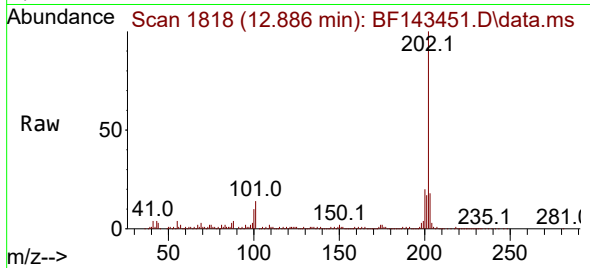
Tgt Ion:240 Resp: 332982
Ion Ratio Lower Upper
240 100
120 10.7 9.0 13.4
236 26.2 20.2 30.2





#78
Pyrene
Concen: 4.658 ng
RT: 12.886 min Scan# 1819
Delta R.T. -0.006 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

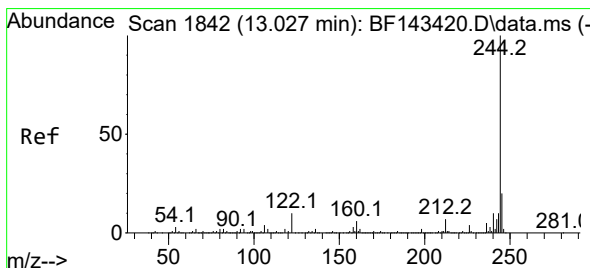
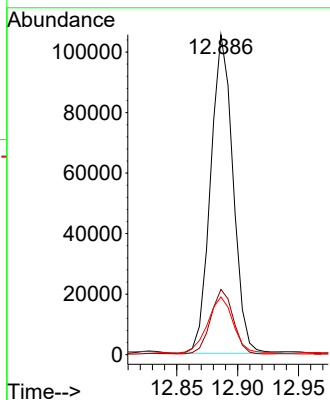
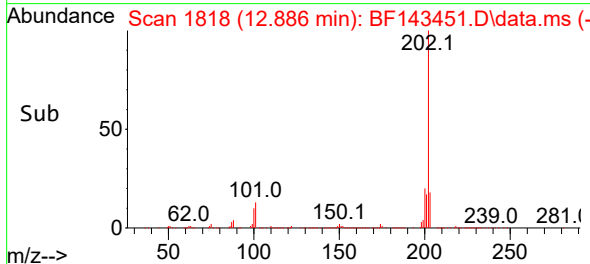
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP03-081425



Tgt Ion:202 Resp: 13482
Ion Ratio Lower Upper
202 100
200 20.4 17.1 25.7
203 18.1 14.2 21.2

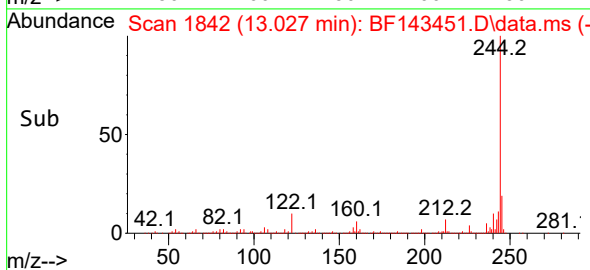
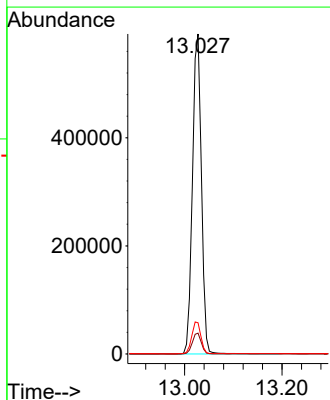
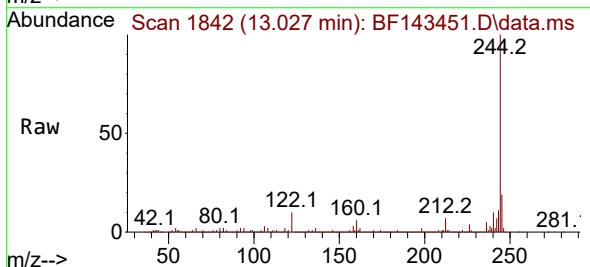
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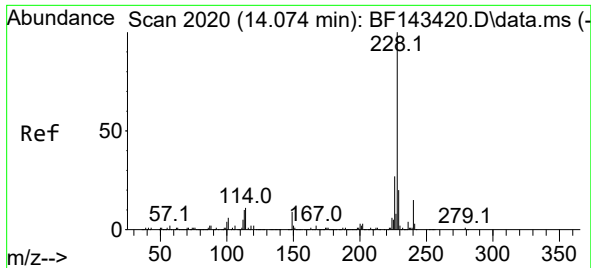
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#79
Terphenyl-d14
Concen: 38.426 ng
RT: 13.027 min Scan# 1842
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

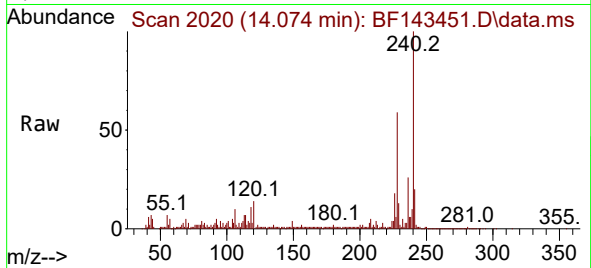
Tgt Ion:244 Resp: 761672
Ion Ratio Lower Upper
244 100
212 6.5 5.2 7.8
122 9.8 8.3 12.5





#81
Benzo(a)anthracene
Concen: 4.728 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

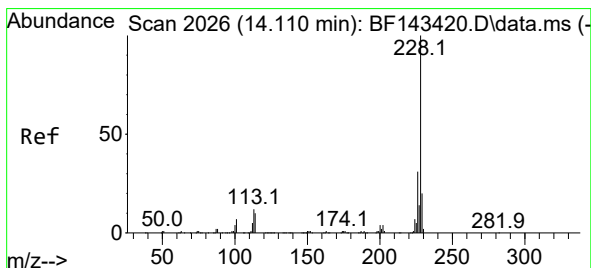
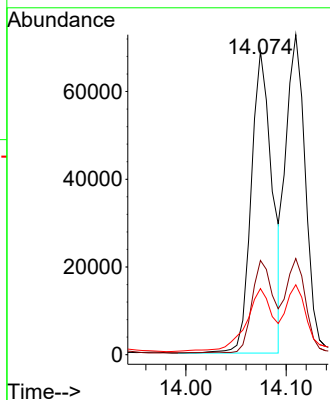
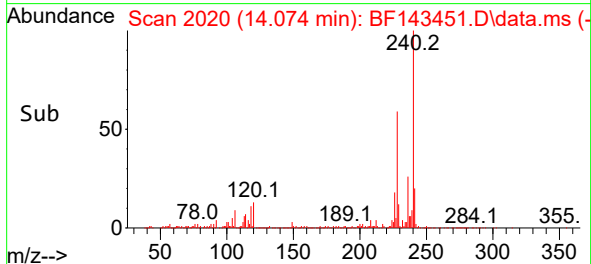
Instrument : BNA_F
ClientSampleId : OU4-TS-GRILLO-TSCP03-081425



Tgt Ion:228 Resp: 10022
Ion Ratio Lower Upper
228 100
226 31.0 21.5 32.3
229 21.8 15.7 23.5

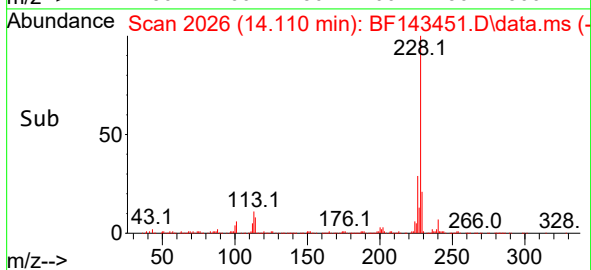
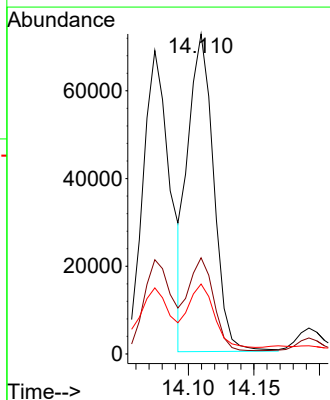
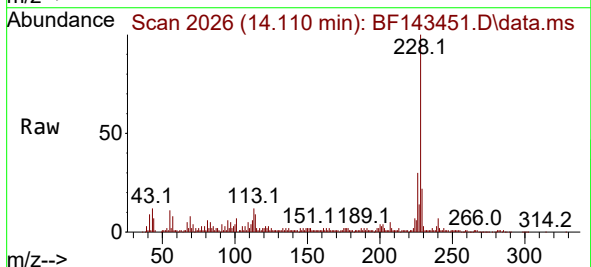
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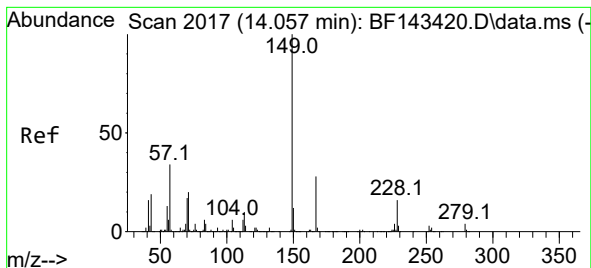
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#83
Chrysene
Concen: 5.022 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

Tgt Ion:228 Resp: 98423
Ion Ratio Lower Upper
228 100
226 30.1 24.3 36.5
229 21.8 16.1 24.1





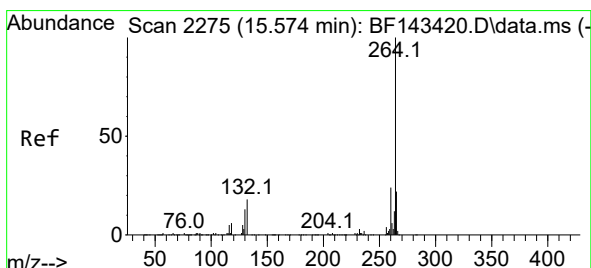
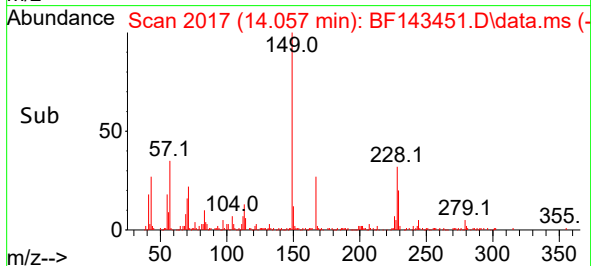
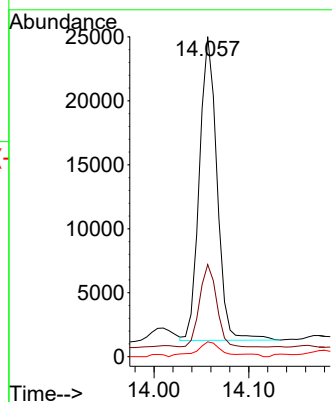
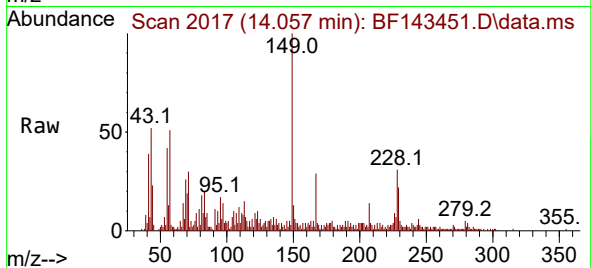
#84
Bis(2-ethylhexyl)phthalate
Concen: 3.023 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

Instrument : BNA_F
ClientSampleId : OU4-TS-GRILLO-TSCP03-081425

Tgt Ion:149 Resp: 3077
Ion Ratio Lower Upper
149 100
167 28.8 22.6 33.8
279 4.7 3.5 5.3

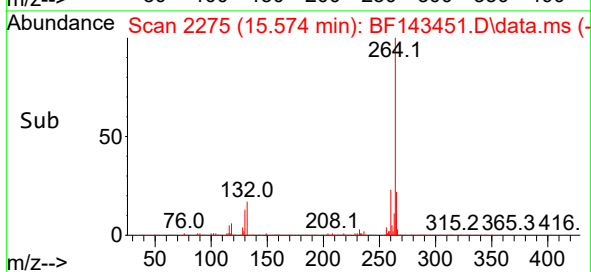
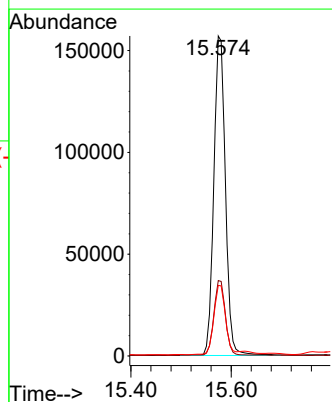
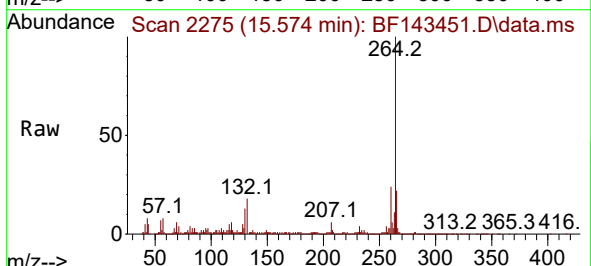
Manual Integrations
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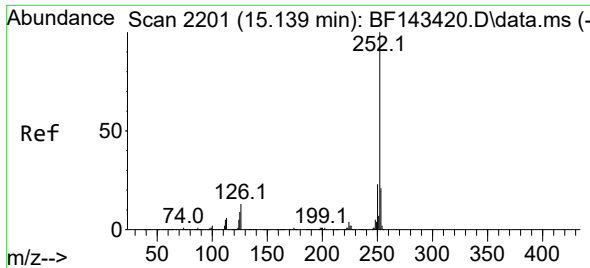
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

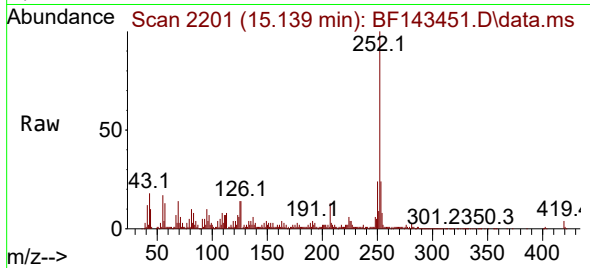
Tgt Ion:264 Resp: 251746
Ion Ratio Lower Upper
264 100
260 23.5 18.8 28.2
265 22.1 17.4 26.0





#88
Benzo(b)fluoranthene
Concen: 9.099 ng m
RT: 15.139 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

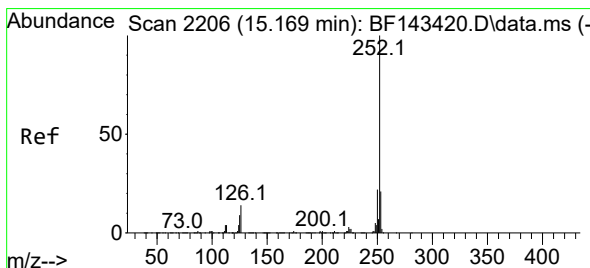
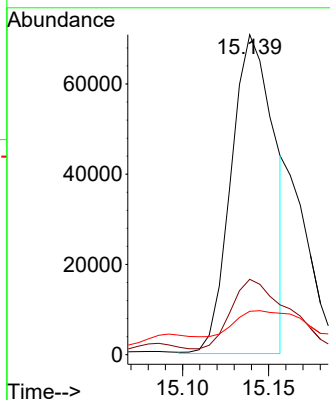
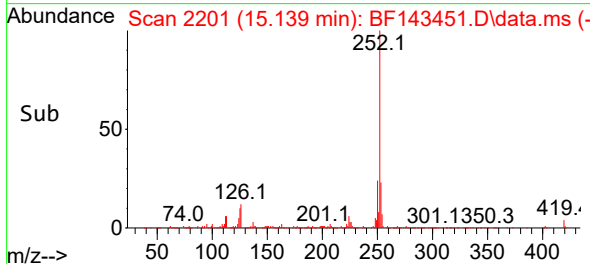
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP03-081425



Tgt Ion:252 Resp: 12276
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 13.6 7.5 11.3

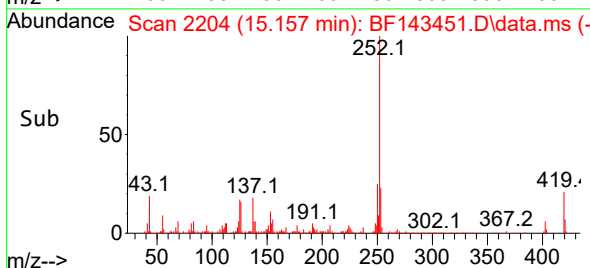
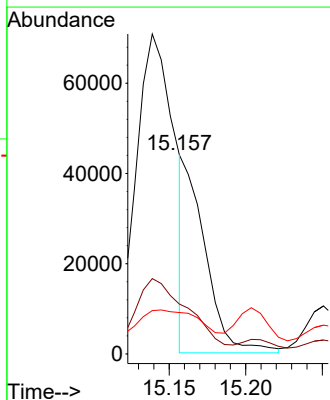
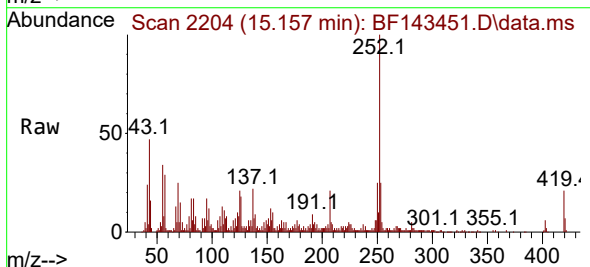
Manual Integrations
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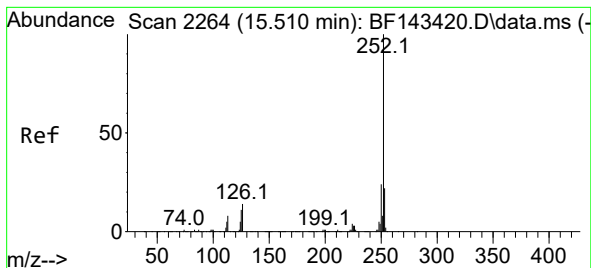
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#89
Benzo(k)fluoranthene
Concen: 3.167 ng m
RT: 15.157 min Scan# 2204
Delta R.T. -0.012 min
Lab File: BF143451.D
Acq: 19 Aug 2025 12:33

Tgt Ion:252 Resp: 42148
Ion Ratio Lower Upper
252 100
253 25.1 17.2 25.8
125 20.8 7.4 11.2





#90

Benzo(a)pyrene

Concen: 5.330 ng

RT: 15.515 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143451.D

Acq: 19 Aug 2025 12:33

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP03-081425

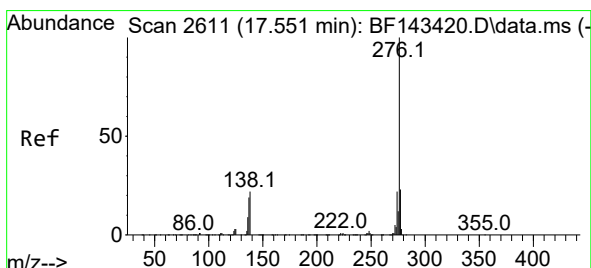
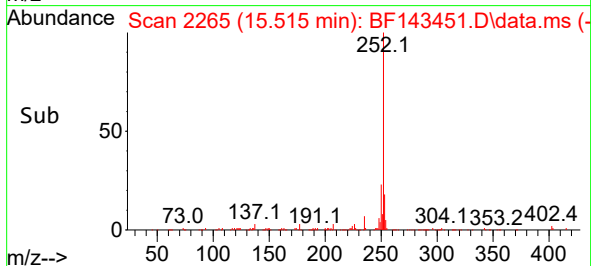
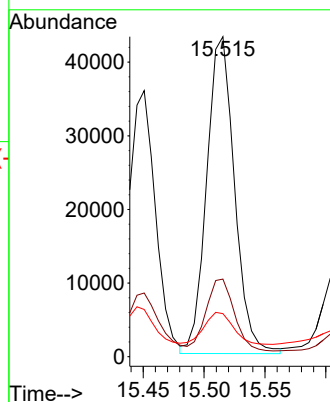
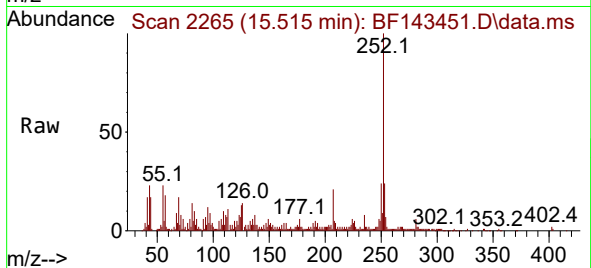
Tgt Ion:	252	Resp:	68490
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.4	26.2
125	13.5	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#92

Benzo(g,h,i)perylene

Concen: 2.282 ng

RT: 17.562 min Scan# 2613

Delta R.T. 0.012 min

Lab File: BF143451.D

Acq: 19 Aug 2025 12:33

Tgt Ion:	276	Resp:	34558
Ion Ratio	Lower	Upper	
276	100		
277	25.2	18.7	28.1
138	24.2	17.5	26.3

