

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
 Data File : BF143453.D
 Acq On : 19 Aug 2025 13:30
 Operator : RC/JU
 Sample : Q2879-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP05-081425

Manual Integrations
 APPROVED

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

Quant Time: Aug 19 13:59:00 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	6.928	152	93170	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	315157	20.000	ng	0.00
39) Acenaphthene-d10	9.957	164	143358	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	276131	20.000	ng	0.00
76) Chrysene-d12	14.086	240	302358	20.000	ng	0.00
86) Perylene-d12	15.580	264	207438	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	409160	76.339	ng	0.00
7) Phenol-d6	6.557	99	469539	69.515	ng	0.00
23) Nitrobenzene-d5	7.481	82	313869	59.096	ng	0.00
42) 2,4,6-Tribromophenol	10.751	330	121605	95.302	ng	0.00
45) 2-Fluorobiphenyl	9.275	172	516255	60.571	ng	0.00
79) Terphenyl-d14	13.027	244	754533	41.921	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.469	178	98842	6.610	ng	100
75) Fluoranthene	12.663	202	260342	19.595	ng	99
78) Pyrene	12.892	202	231916	8.825	ng	99
81) Benzo(a)anthracene	14.074	228	137384	7.137	ng	95
83) Chrysene	14.110	228	130659	7.342	ng	98
84) Bis(2-ethylhexyl)phtha...	14.057	149	22096	2.390	ng	96
87) Indeno(1,2,3-cd)pyrene	17.098	276	38698	2.488	ng	94
88) Benzo(b)fluoranthene	15.139	252	122099m	10.982	ng	
89) Benzo(k)fluoranthene	15.157	252	46257m	4.218	ng	
90) Benzo(a)pyrene	15.515	252	71563	6.758	ng	# 94
92) Benzo(g,h,i)perylene	17.562	276	40674	3.259	ng	97

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

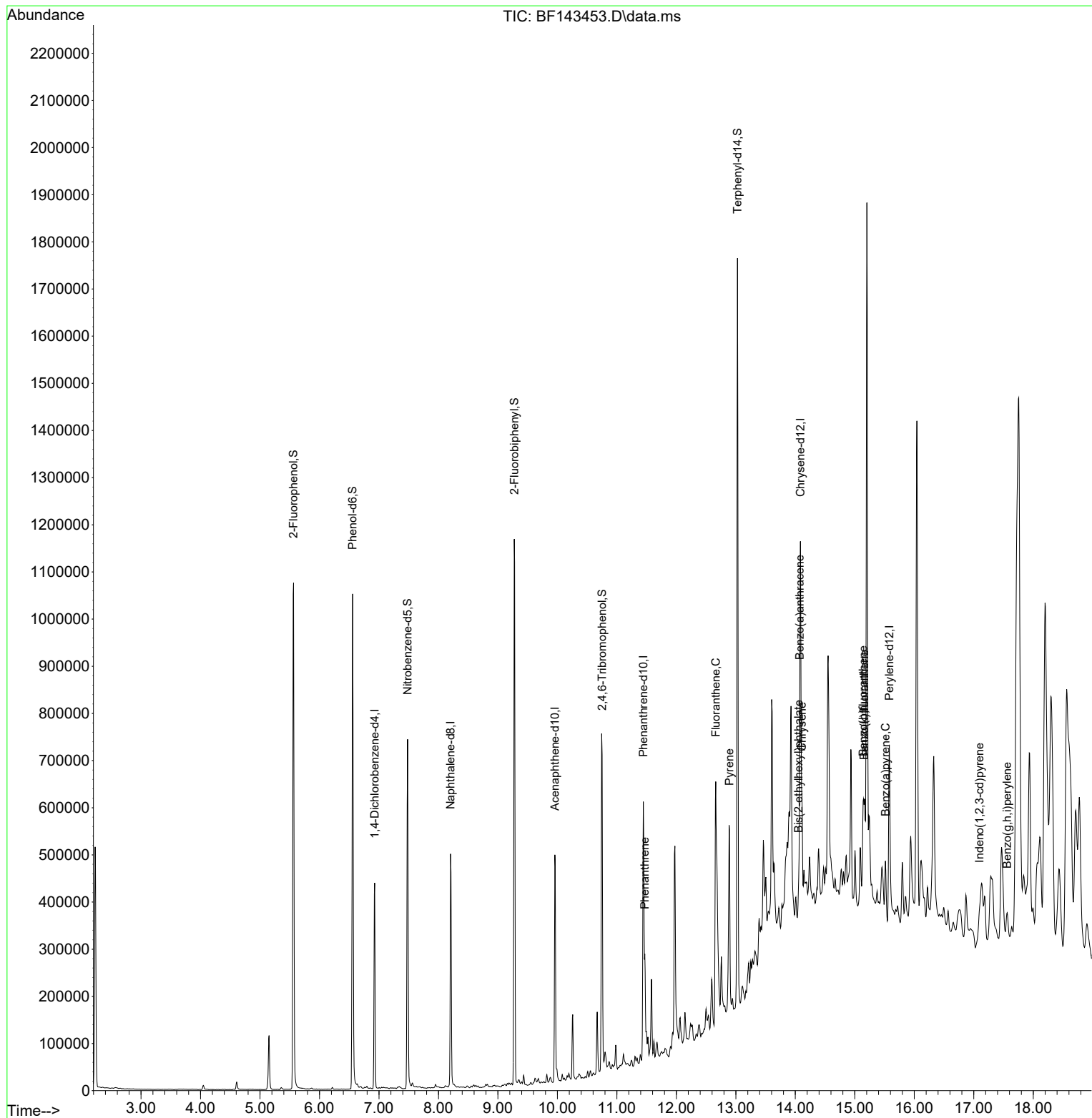
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
Data File : BF143453.D
Acq On : 19 Aug 2025 13:30
Operator : RC/JU
Sample : Q2879-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

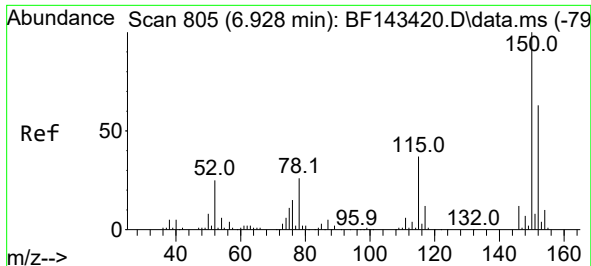
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OU4-TS-GRILLO-TSCP05-081425

Quant Time: Aug 19 13:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF081525.M
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QLast Update : Mon Aug 18 04:40:19 2025
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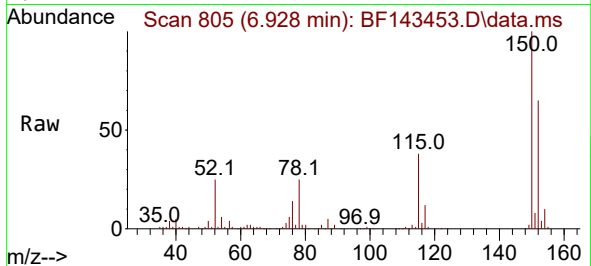
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 805
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

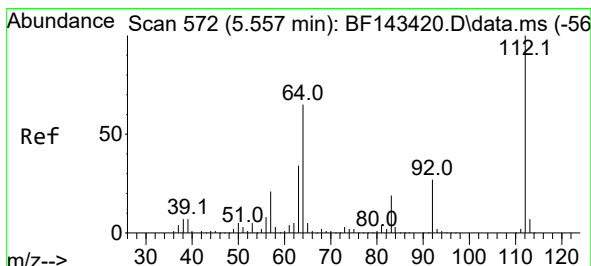
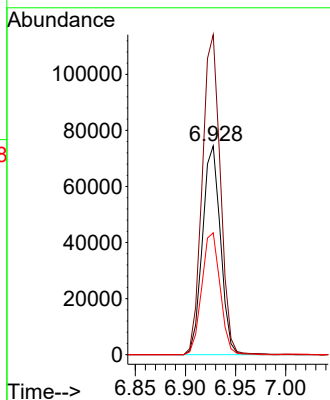
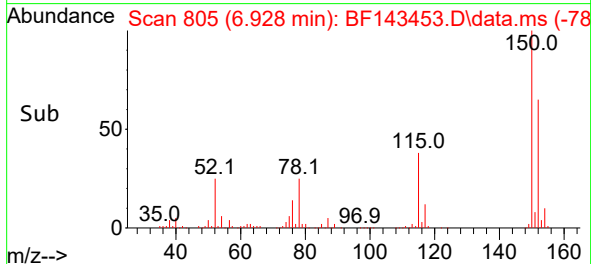
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



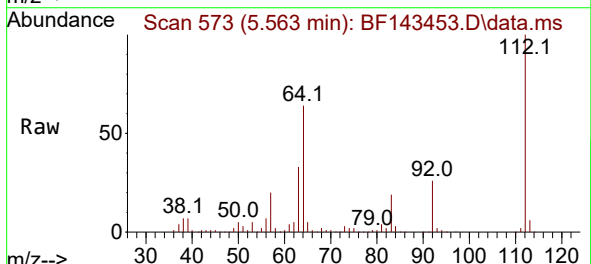
Tgt Ion:152 Resp: 93170
Ion Ratio Lower Upper
152 100
150 153.2 127.4 191.2
115 58.4 47.5 71.3

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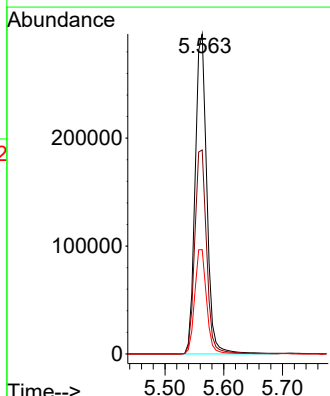
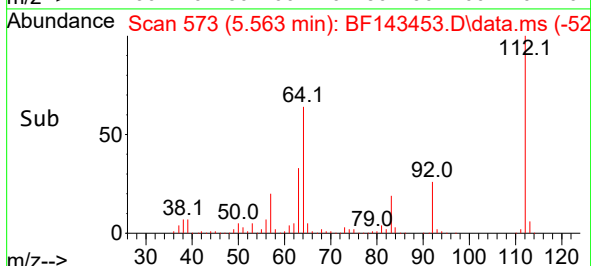
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

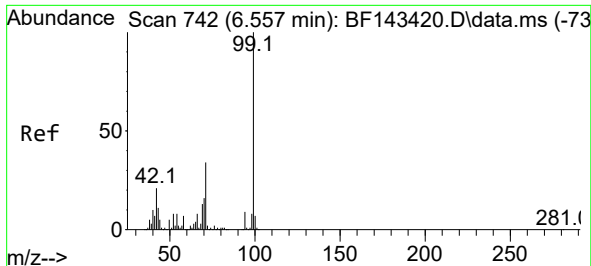


#5
2-Fluorophenol
Concen: 76.339 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30



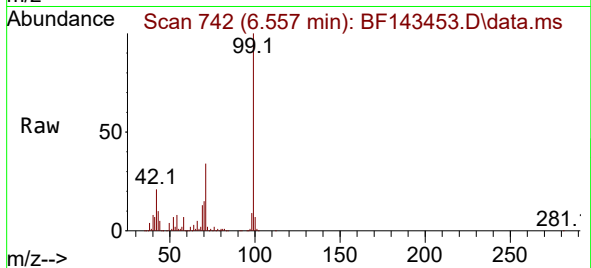
Tgt Ion:112 Resp: 409160
Ion Ratio Lower Upper
112 100
64 63.8 52.2 78.2
63 32.6 27.0 40.6





#7
Phenol-d6
Concen: 69.515 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

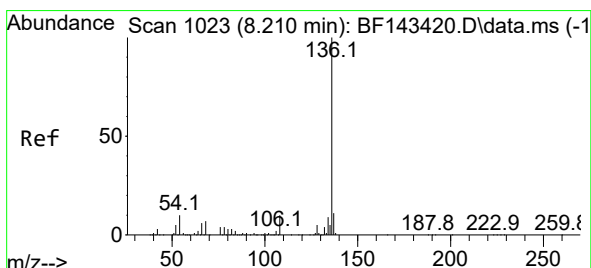
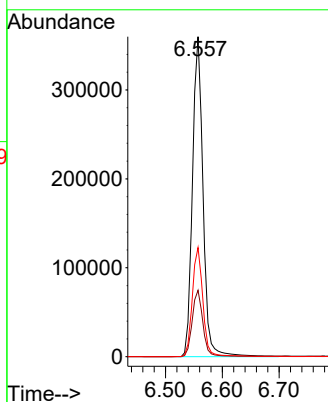
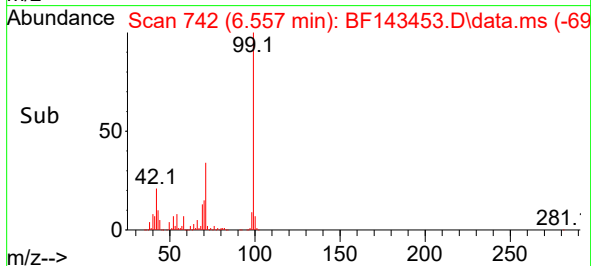
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



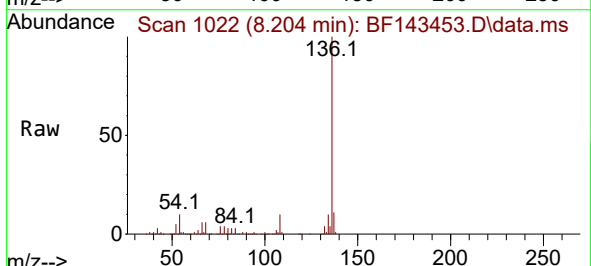
Tgt Ion: 99 Resp: 469539
Ion Ratio Lower Upper
99 100
42 20.7 17.0 25.6
71 34.1 27.4 41.2

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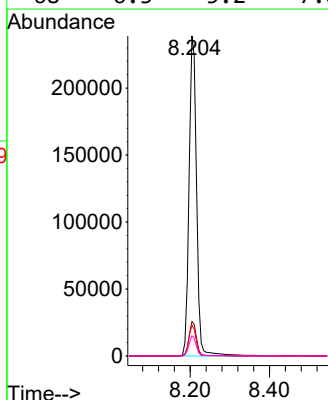
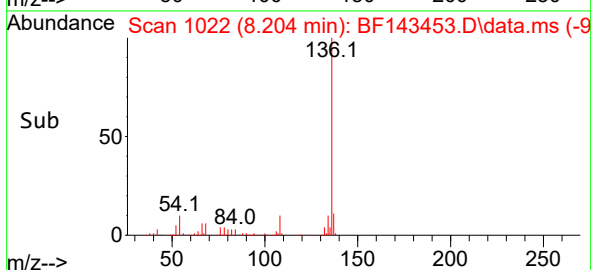
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

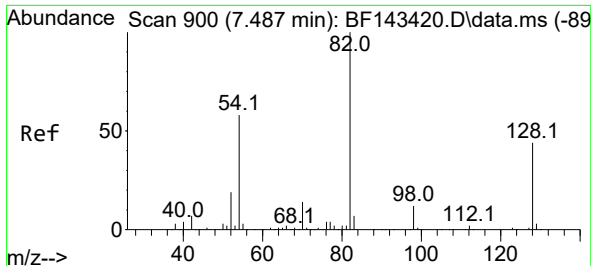


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30



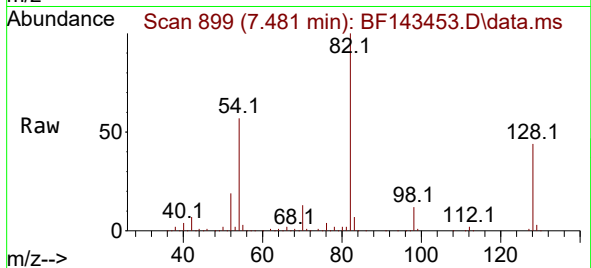
Tgt Ion:136 Resp: 315157
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 9.6 7.8 11.8
68 6.3 5.2 7.8





#23
Nitrobenzene-d5
Concen: 59.096 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

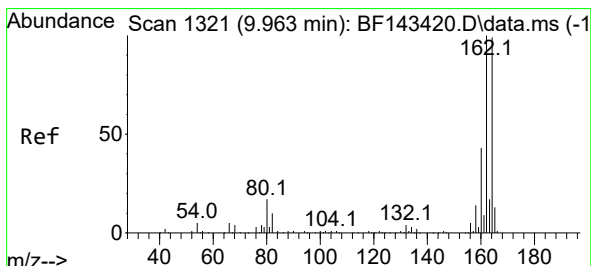
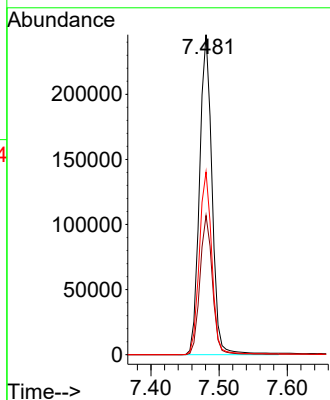
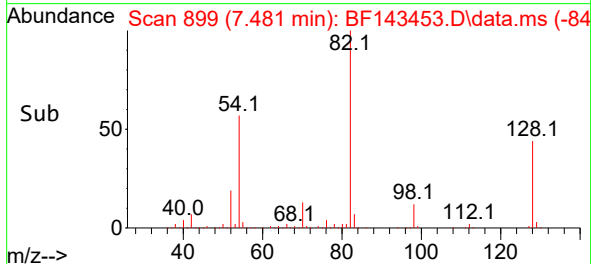
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



Tgt Ion: 82 Resp: 313869
Ion Ratio Lower Upper
82 100
128 43.5 34.6 52.0
54 57.1 46.0 69.0

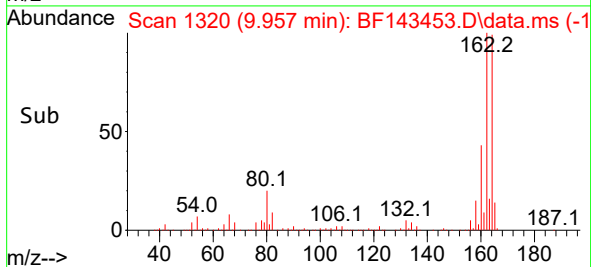
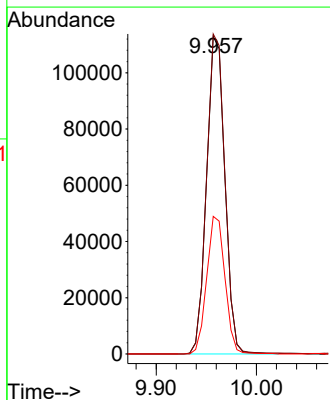
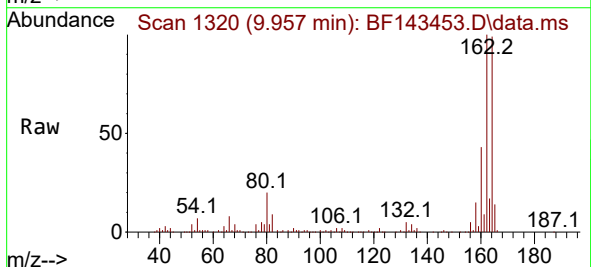
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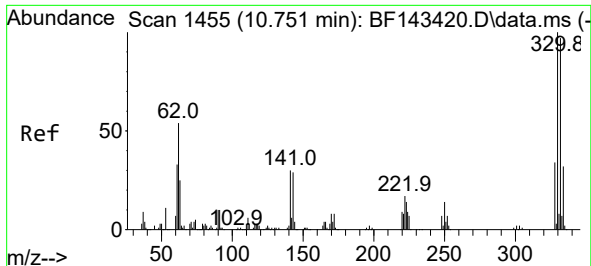
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

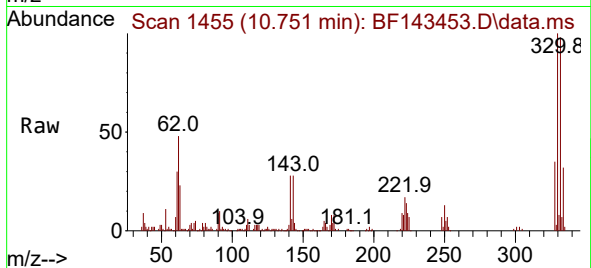
Tgt Ion:164 Resp: 143358
Ion Ratio Lower Upper
164 100
162 100.8 80.6 121.0
160 43.4 34.6 51.8





#42
2,4,6-Tribromophenol
Concen: 95.302 ng
RT: 10.751 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

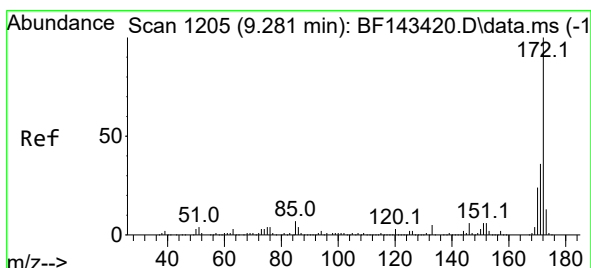
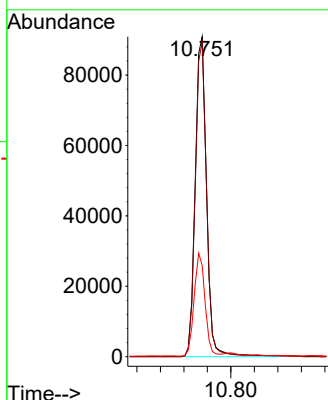
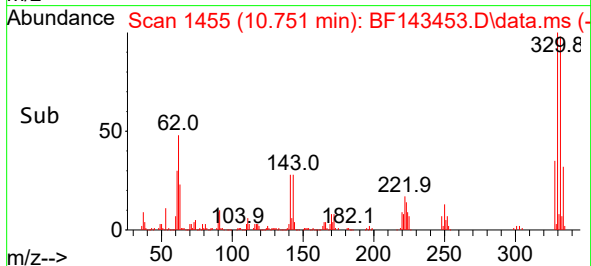
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



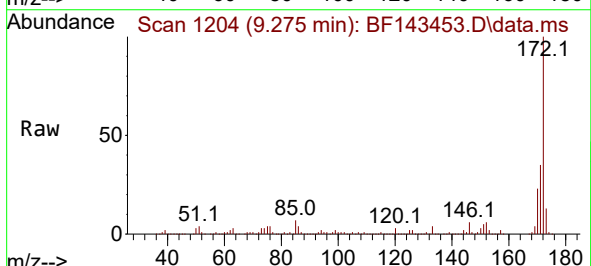
Tgt Ion:330 Resp: 121609
Ion Ratio Lower Upper
330 100
332 97.8 77.4 116.2
141 30.7 24.1 36.1

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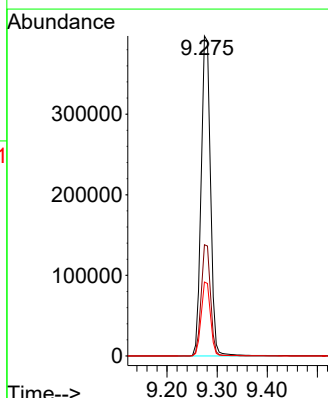
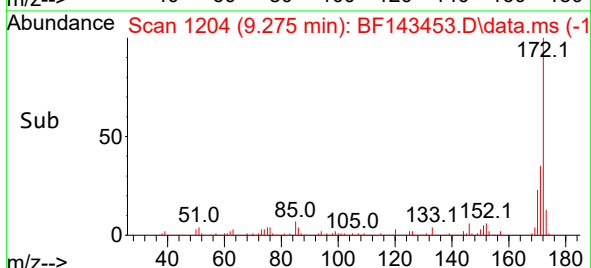
Reviewed By :Rahul Chavli 08/20/2025
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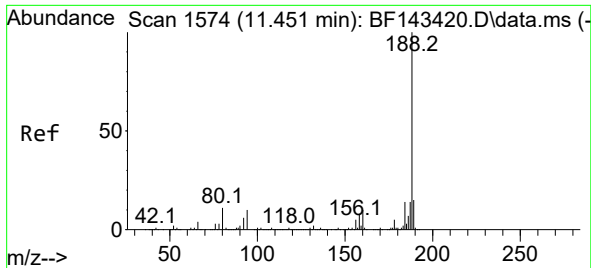


#45
2-Fluorobiphenyl
Concen: 60.571 ng
RT: 9.275 min Scan# 1204
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30



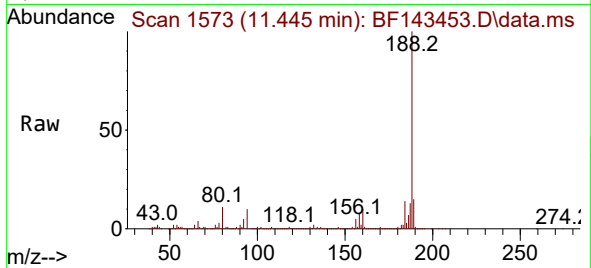
Tgt Ion:172 Resp: 516255
Ion Ratio Lower Upper
172 100
171 34.8 28.7 43.1
170 23.1 19.0 28.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

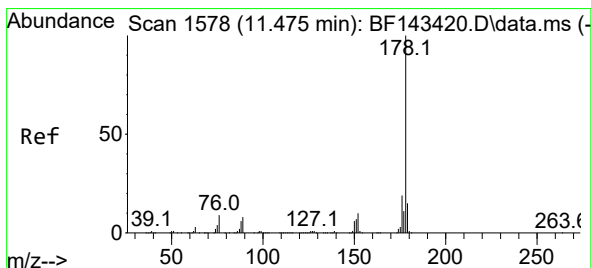
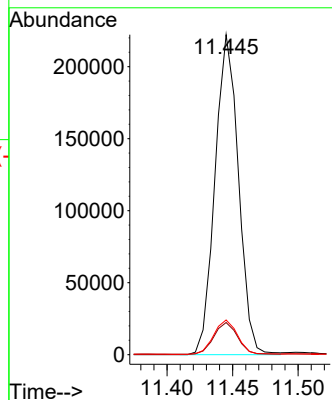
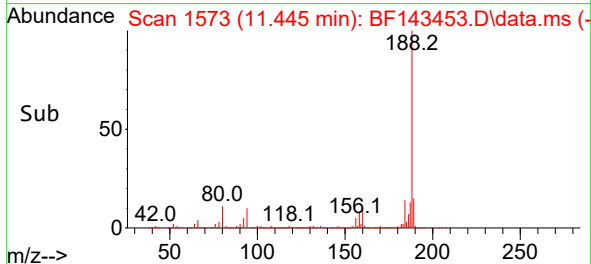
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



Tgt Ion:188 Resp: 27613
Ion Ratio Lower Upper
188 100
94 10.1 8.0 12.0
80 10.8 8.6 12.8

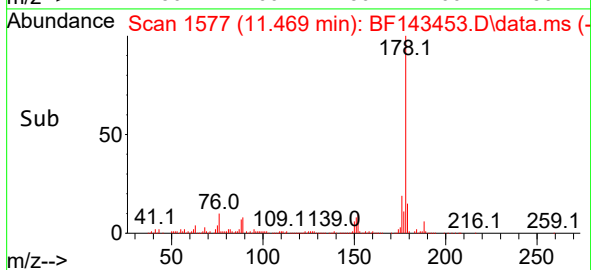
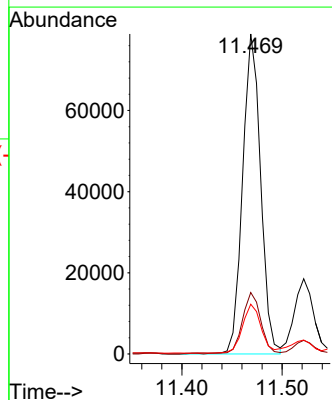
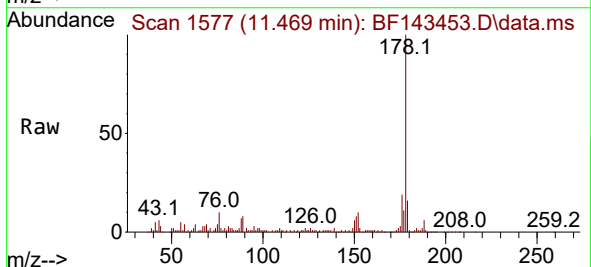
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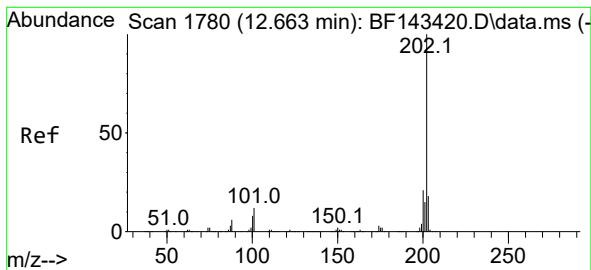
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#71
Phenanthrene
Concen: 6.610 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

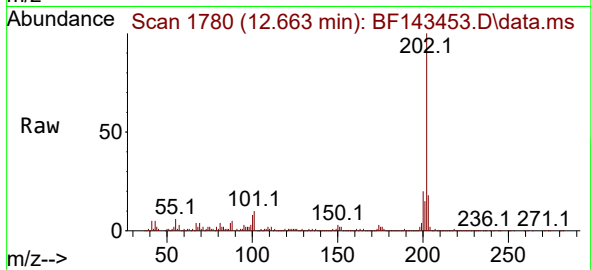
Tgt Ion:178 Resp: 98842
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.6 12.3 18.5





#75
Fluoranthene
Concen: 19.595 ng
RT: 12.663 min Scan# 1780
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

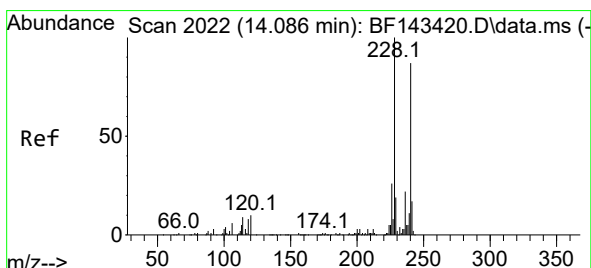
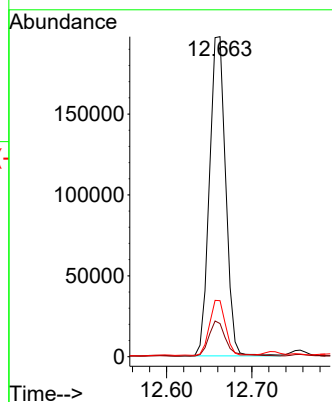
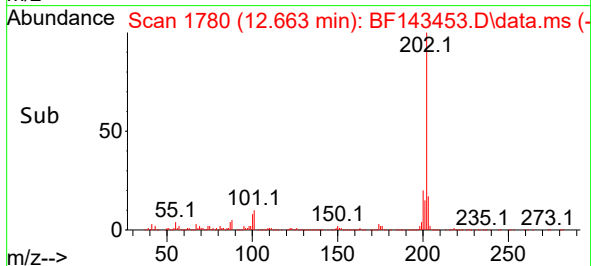
Instrument :
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OU4-TS-GRILLO-TSCP05-081425



Tgt Ion:202 Resp: 26034
Ion Ratio Lower Upper
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101 10.4 0.0 31.5
203 17.5 0.0 37.5

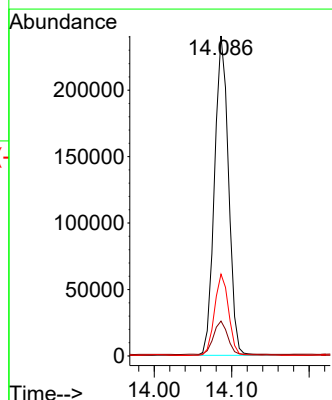
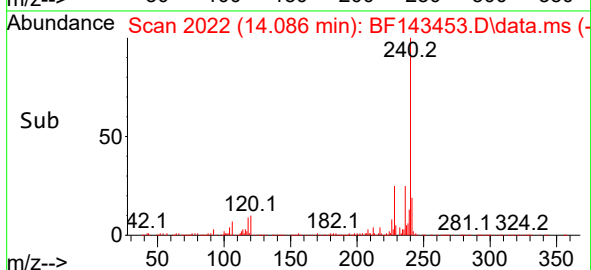
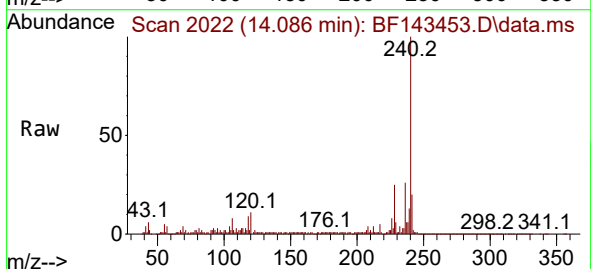
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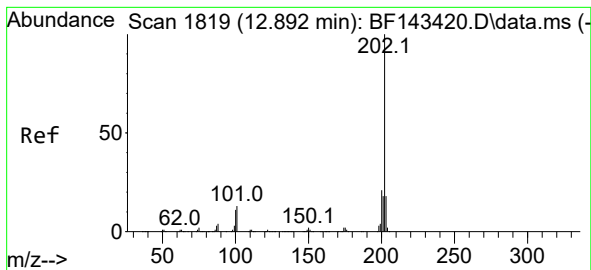
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion:240 Resp: 302358
Ion Ratio Lower Upper
240 100
120 10.9 9.0 13.4
236 25.6 20.2 30.2





#78

Pyrene

Concen: 8.825 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.000 min

Lab File: BF143453.D

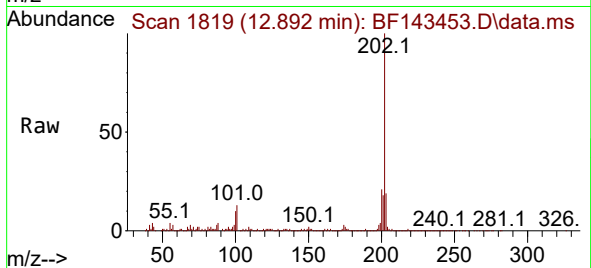
Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425



Tgt Ion:202 Resp: 231910

Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

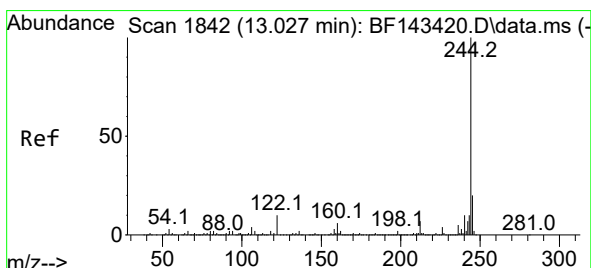
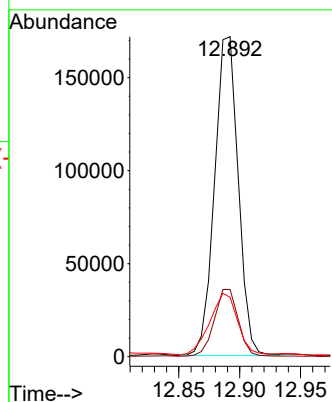
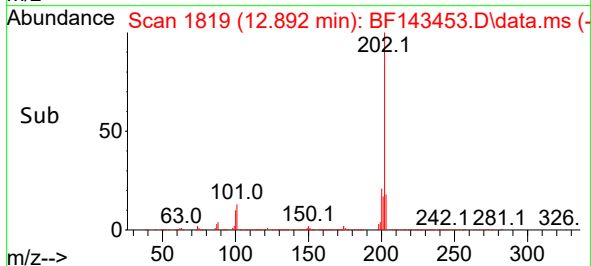
203 18.5 14.2 21.2

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#79

Terphenyl-d14

Concen: 41.921 ng

RT: 13.027 min Scan# 1842

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

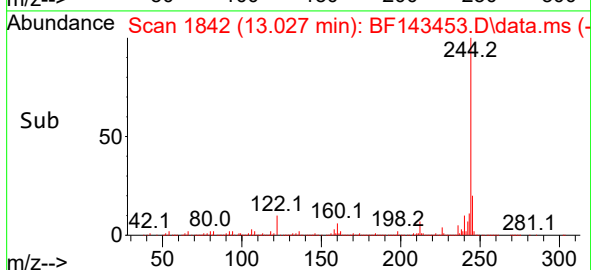
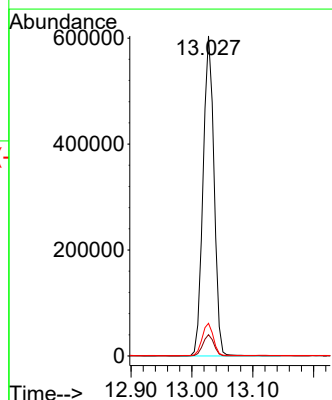
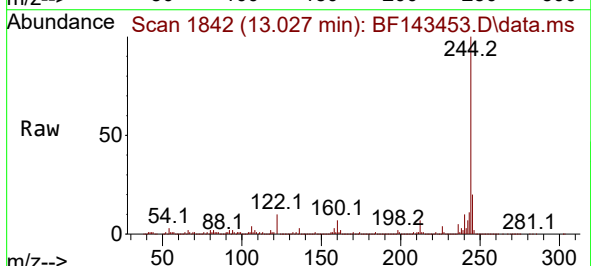
Tgt Ion:244 Resp: 754533

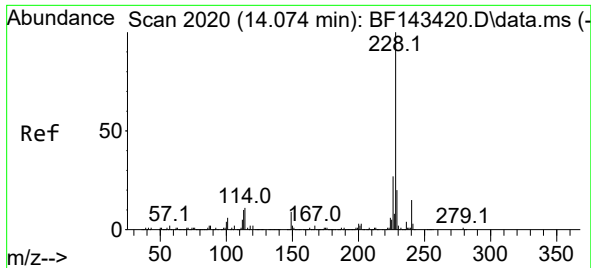
Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

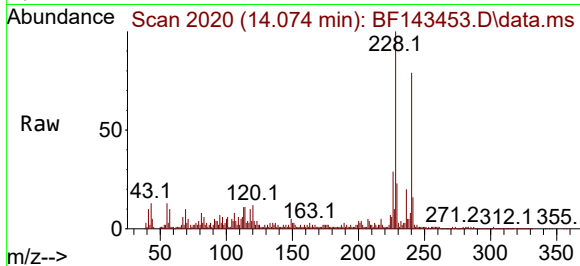
122 10.2 8.3 12.5





#81
Benzo(a)anthracene
Concen: 7.137 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

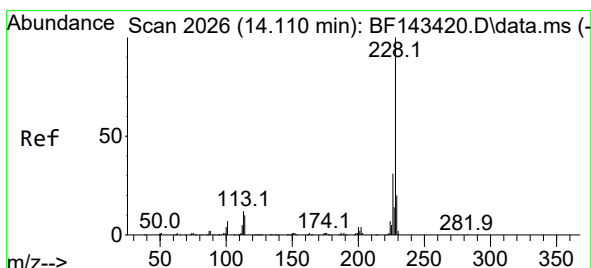
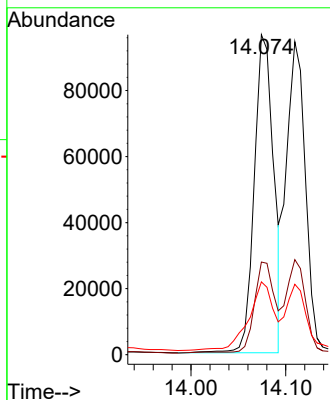
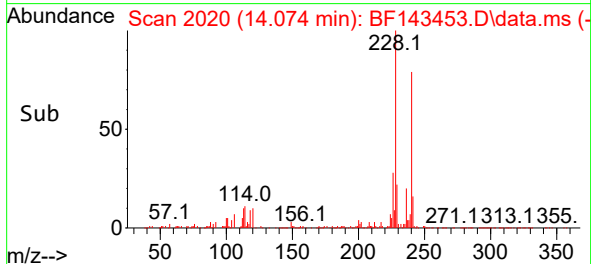
Instrument : BNA_F
ClientSampleId : OU4-TS-GRILLO-TSCP05-081425



Tgt Ion:228 Resp: 137384
Ion Ratio Lower Upper
228 100
226 28.9 21.5 32.3
229 22.8 15.7 23.5

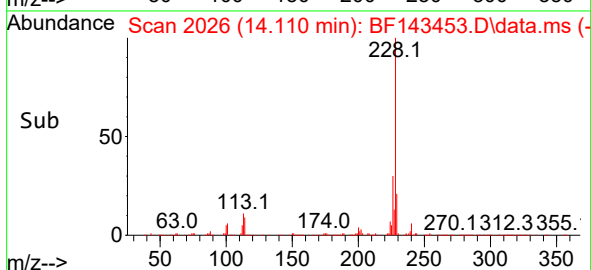
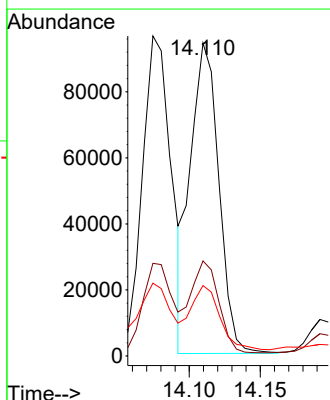
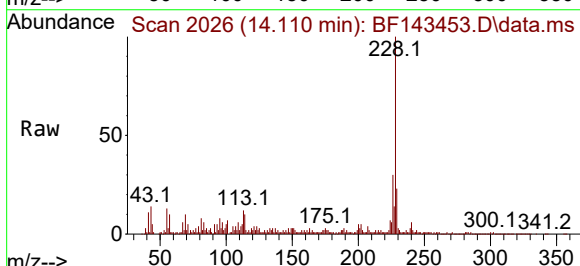
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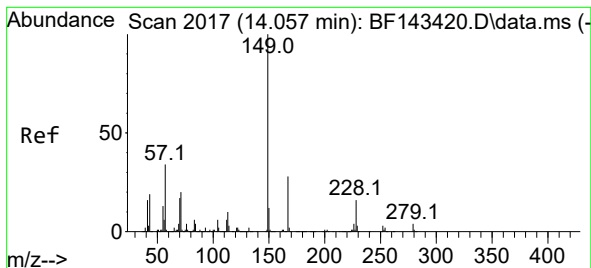
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#83
Chrysene
Concen: 7.342 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

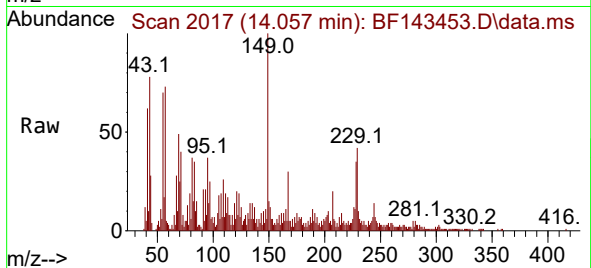
Tgt Ion:228 Resp: 130659
Ion Ratio Lower Upper
228 100
226 30.4 24.3 36.5
229 22.5 16.1 24.1





#84
Bis(2-ethylhexyl)phthalate
Concen: 2.390 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

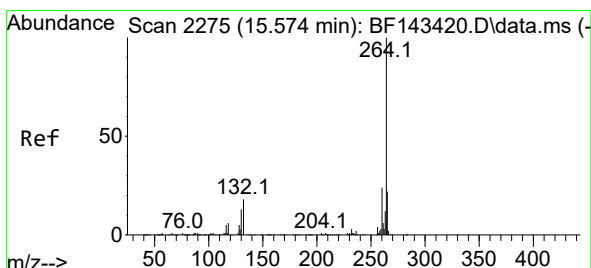
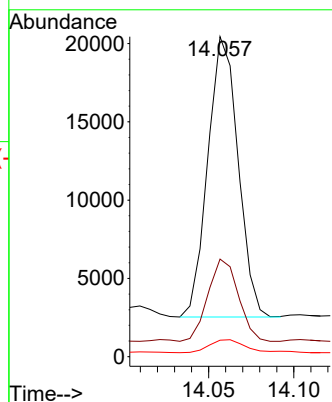
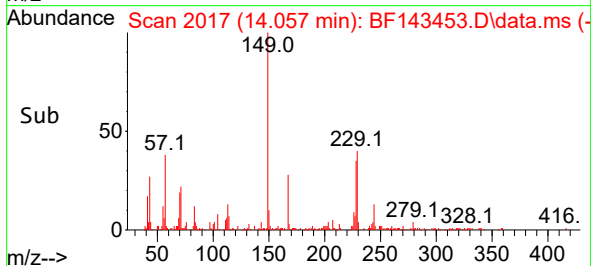
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



Tgt Ion:149 Resp: 22090
Ion Ratio Lower Upper
149 100
167 30.5 22.6 33.8
279 5.2 3.5 5.3

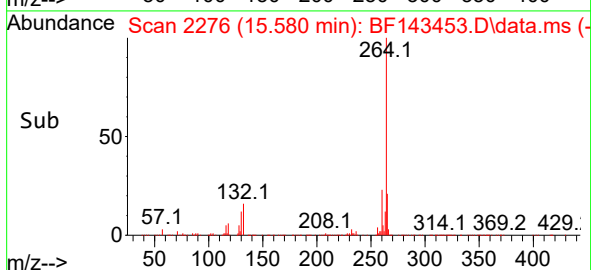
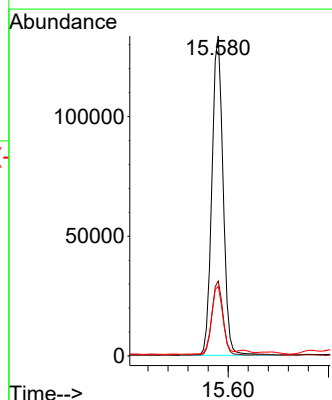
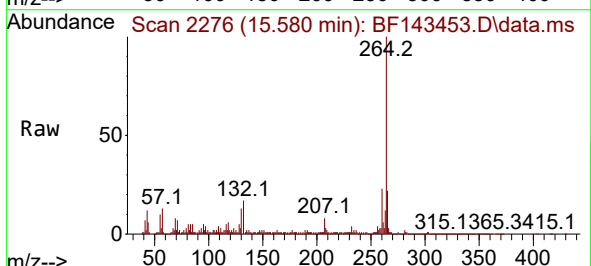
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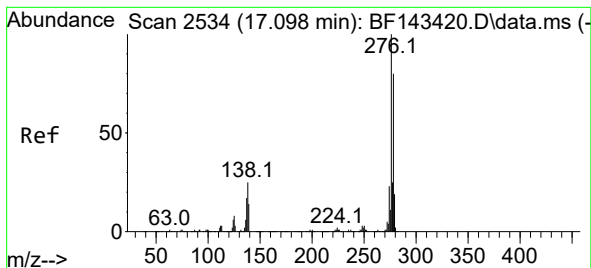
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2276
Delta R.T. 0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion:264 Resp: 207438
Ion Ratio Lower Upper
264 100
260 23.5 18.8 28.2
265 21.8 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.488 ng

RT: 17.098 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

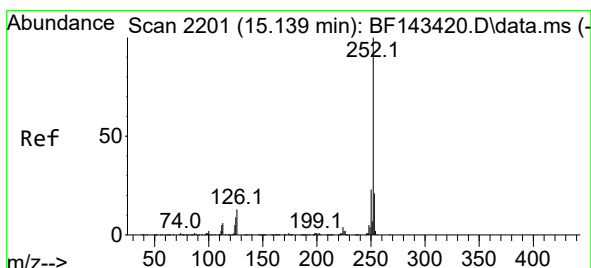
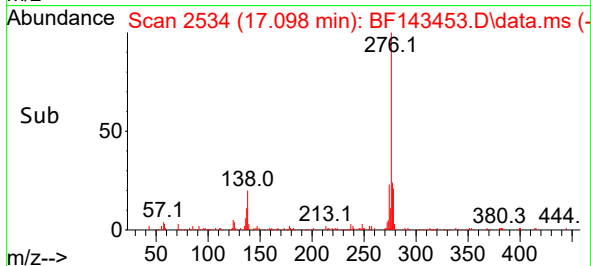
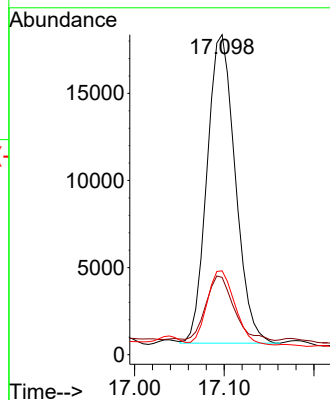
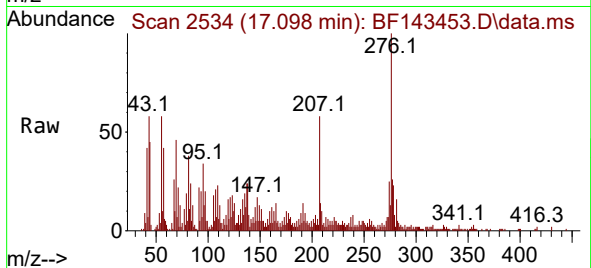
Tgt Ion:	276	Resp:	38698
Ion Ratio	Lower	Upper	
276	100		
138	21.1	20.2	30.4
277	23.9	20.2	30.2

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#88

Benzo(b)fluoranthene

Concen: 10.982 ng m

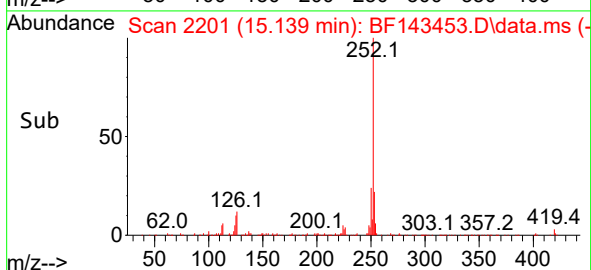
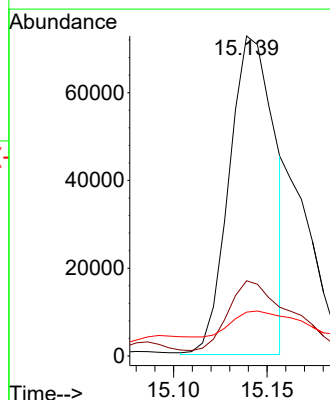
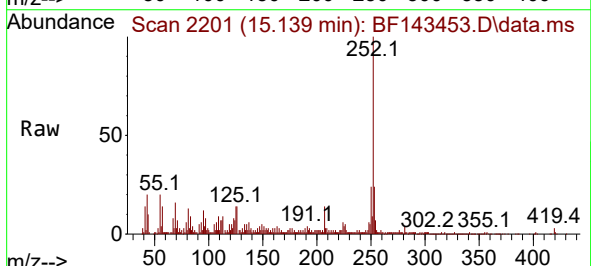
RT: 15.139 min Scan# 2201

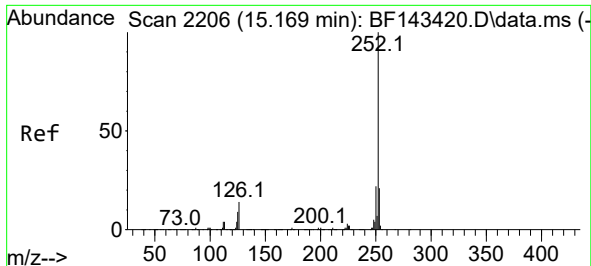
Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

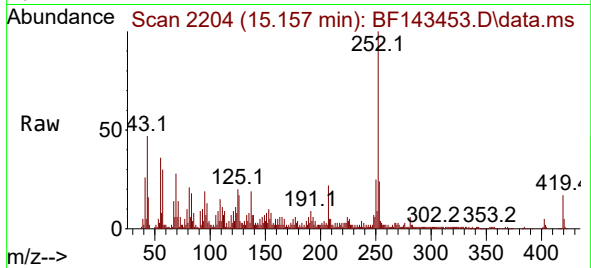
Tgt Ion:	252	Resp:	122099
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.1	25.7
125	13.7	7.5	11.3





#89
Benzo(k)fluoranthene
Concen: 4.218 ng m
RT: 15.157 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

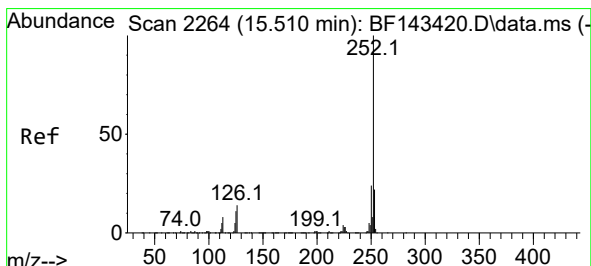
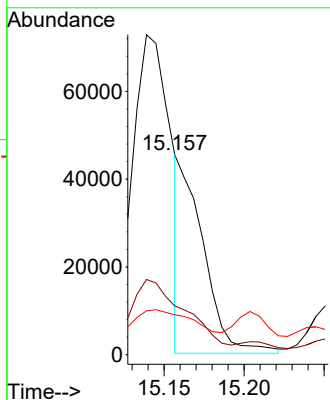
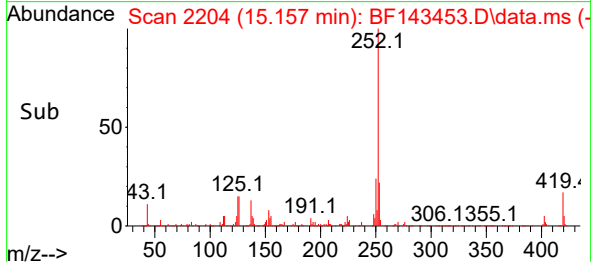
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425



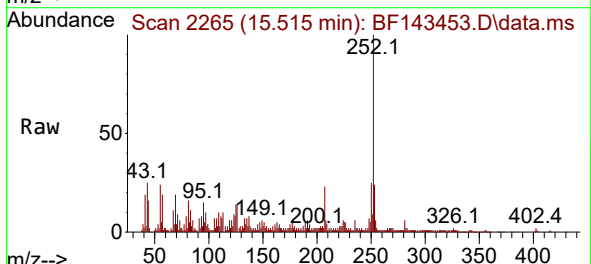
Tgt Ion:252 Resp: 4625
Ion Ratio Lower Upper
252 100
253 24.3 17.2 25.8
125 19.9 7.4 11.2

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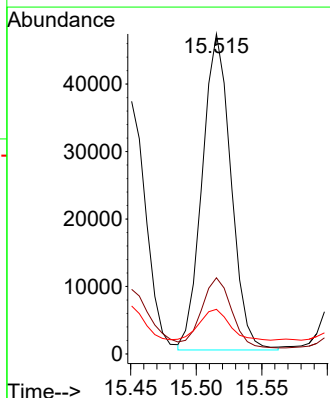
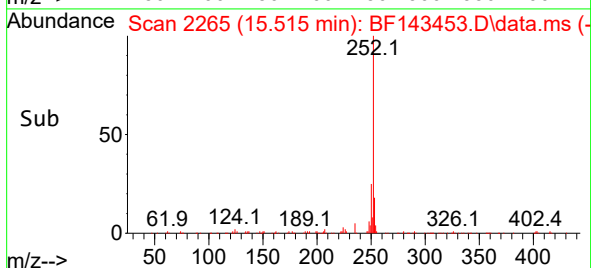
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

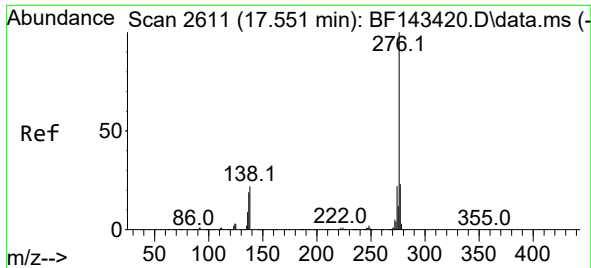


#90
Benzo(a)pyrene
Concen: 6.758 ng
RT: 15.515 min Scan# 2265
Delta R.T. 0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30



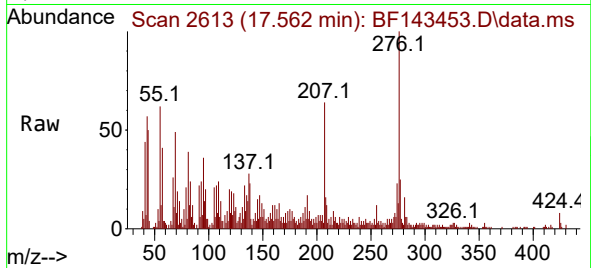
Tgt Ion:252 Resp: 71563
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.2
125 14.0 8.6 12.8





#92
 Benzo(g,h,i)perylene
 Concen: 3.259 ng
 RT: 17.562 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF143453.D
 Acq: 19 Aug 2025 13:30

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP05-081425



Tgt Ion:276 Resp: 40674
 Ion Ratio Lower Upper
 276 100
 277 25.0 18.7 28.1
 138 23.3 17.5 26.3

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

