

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
 Data File : BF143456.D
 Acq On : 19 Aug 2025 14:57
 Operator : RC/JU
 Sample : Q2879-11
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP08-081425

Quant Time: Aug 19 15:23:55 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	98829	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	307720	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	157233	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	284588	20.000	ng	0.00
76) Chrysene-d12	14.092	240	279953	20.000	ng	0.00
86) Perylene-d12	15.580	264	184800	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	340026	59.808	ng	0.00
7) Phenol-d6	6.557	99	406539	56.741	ng	0.00
23) Nitrobenzene-d5	7.481	82	256663	49.493	ng	0.00
42) 2,4,6-Tribromophenol	10.751	330	104537	74.696	ng	0.00
45) 2-Fluorobiphenyl	9.281	172	470643	50.347	ng	0.00
79) Terphenyl-d14	13.027	244	695073	41.708	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.469	178	42555	2.761	ng	98
75) Fluoranthene	12.663	202	142859	10.433	ng	99
78) Pyrene	12.892	202	128011	5.261	ng	99
81) Benzo(a)anthracene	14.080	228	75556	4.239	ng	92
83) Chrysene	14.116	228	68136	4.135	ng	97
84) Bis(2-ethylhexyl)phtha...	14.063	149	37889	4.427	ng	99
88) Benzo(b)fluoranthene	15.145	252	72524m	7.322	ng	
89) Benzo(k)fluoranthene	15.163	252	22536m	2.307	ng	
90) Benzo(a)pyrene	15.516	252	40067	4.247	ng	# 87
92) Benzo(g,h,i)perylene	17.568	276	28343	2.549	ng	# 91

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

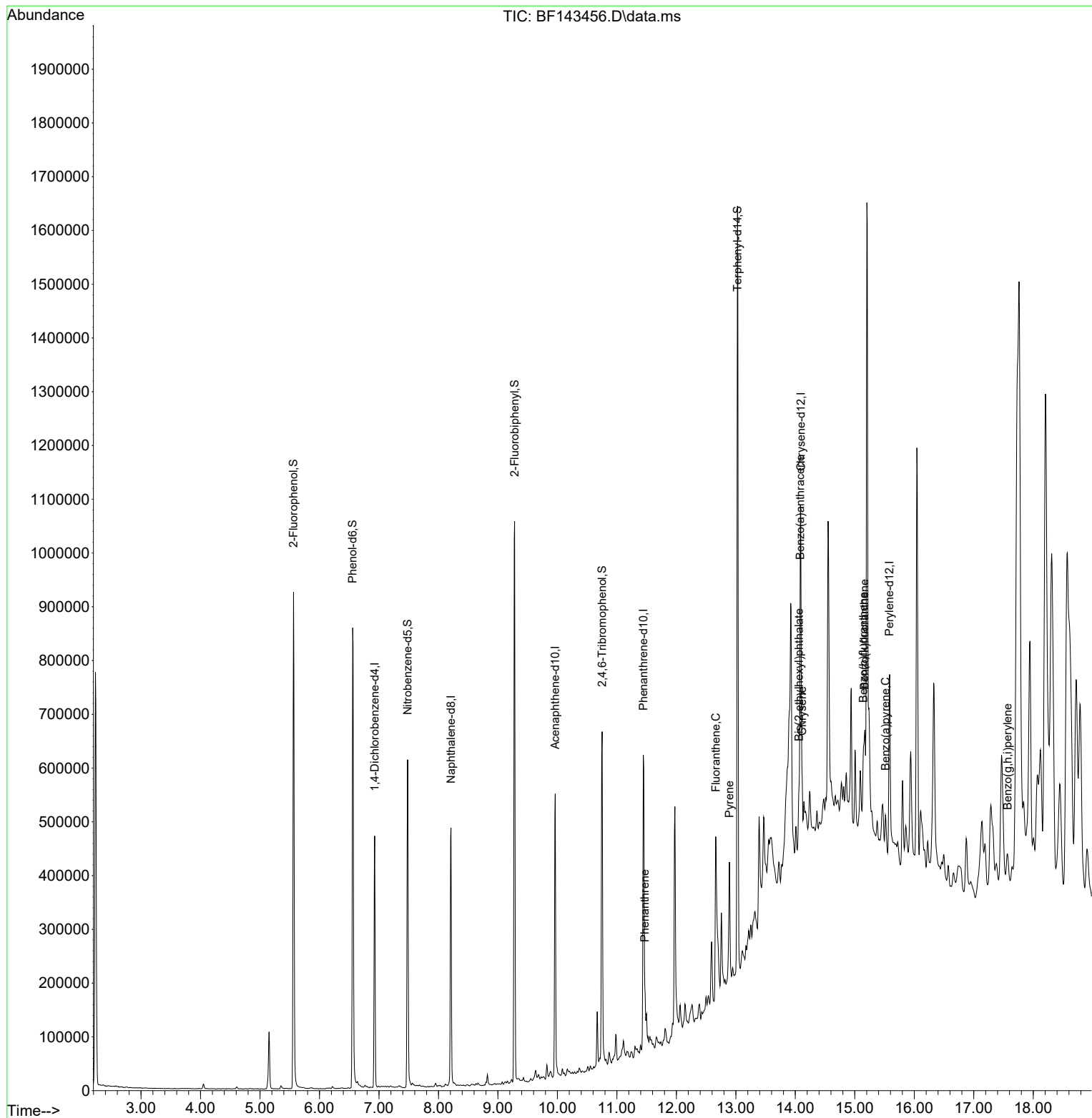
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
Data File : BF143456.D
Acq On : 19 Aug 2025 14:57
Operator : RC/JU
Sample : Q2879-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

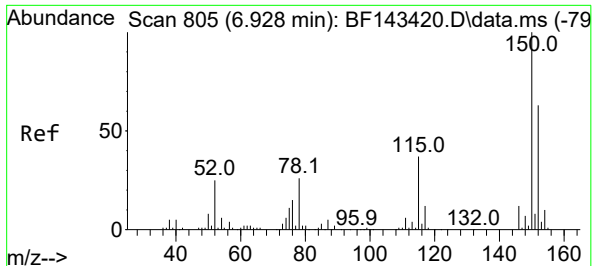
Instrument :
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ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425

Quant Time: Aug 19 15:23:55 2025
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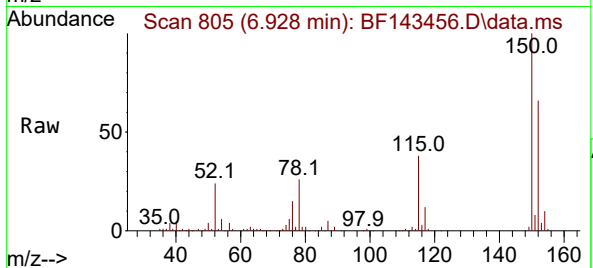
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 805
Delta R.T. -0.000 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

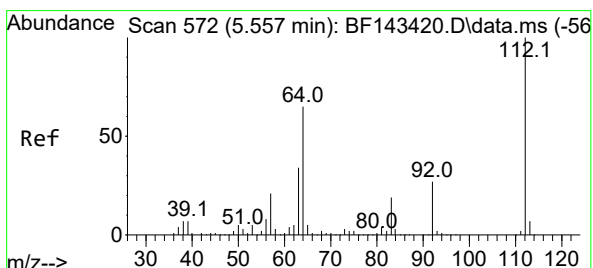
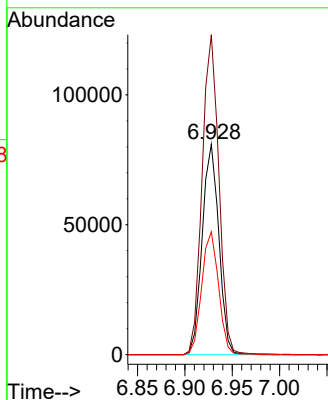
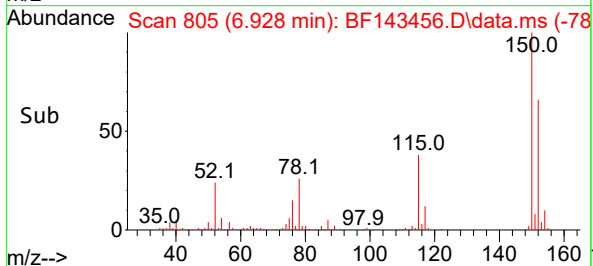
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



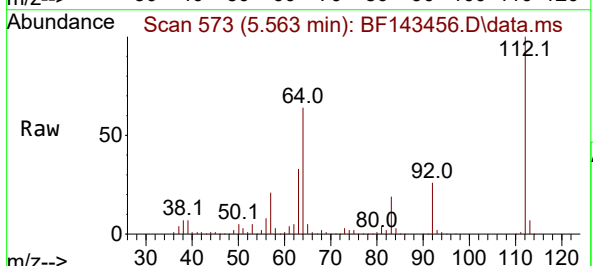
Tgt Ion:152 Resp: 98829
Ion Ratio Lower Upper
152 100
150 152.0 127.4 191.2
115 58.4 47.5 71.3

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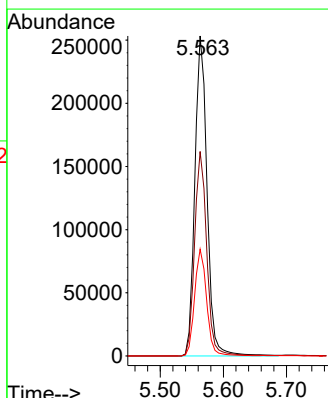
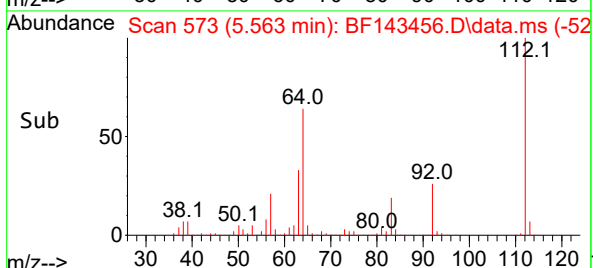
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

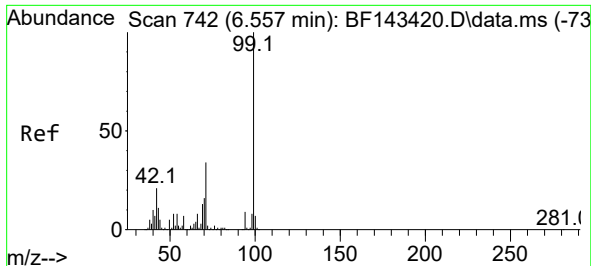


#5
2-Fluorophenol
Concen: 59.808 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57



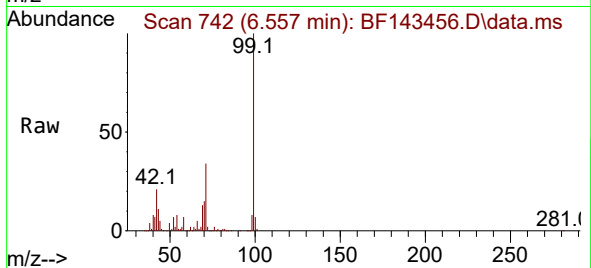
Tgt Ion:112 Resp: 340026
Ion Ratio Lower Upper
112 100
64 63.9 52.2 78.2
63 33.4 27.0 40.6





#7
Phenol-d6
Concen: 56.741 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.000 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

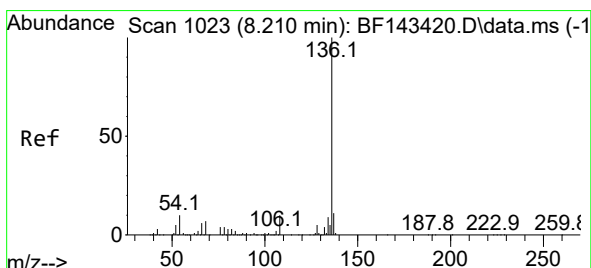
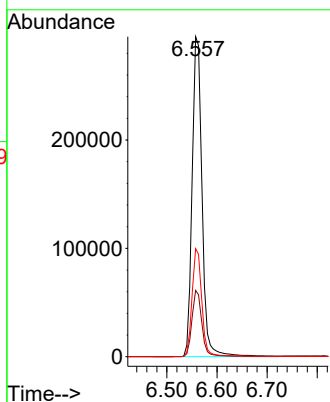
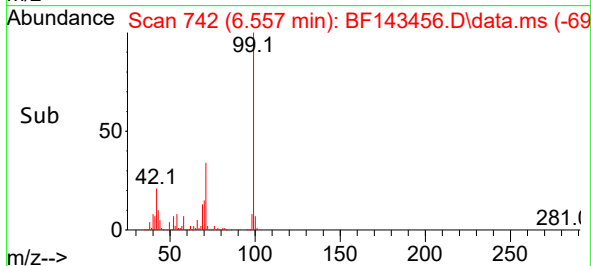
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



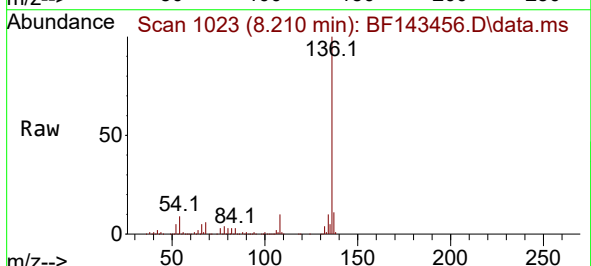
Tgt Ion: 99 Resp: 406539
Ion Ratio Lower Upper
99 100
42 20.7 17.0 25.6
71 33.8 27.4 41.2

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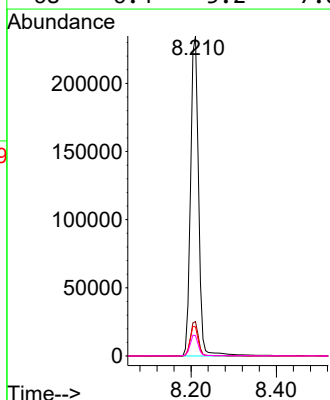
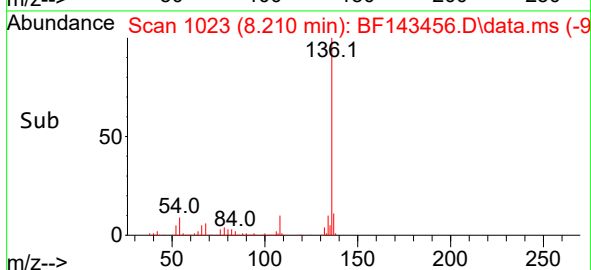
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

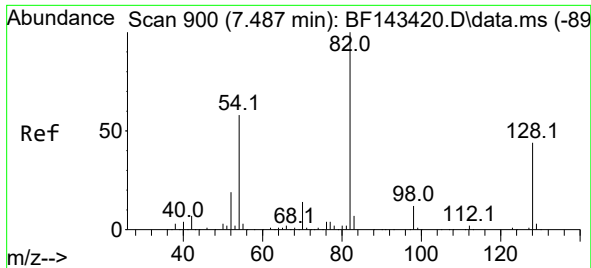


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57



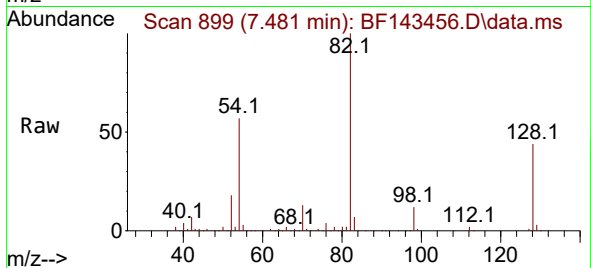
Tgt Ion:136 Resp: 307720
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 9.1 7.8 11.8
68 6.4 5.2 7.8





#23
Nitrobenzene-d5
Concen: 49.493 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

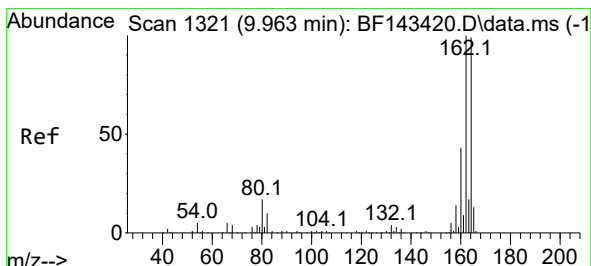
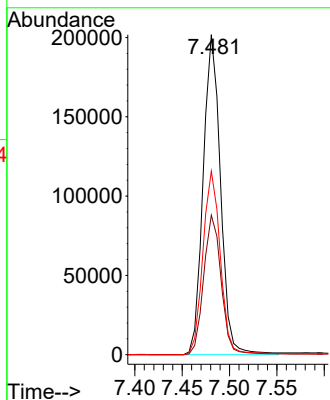
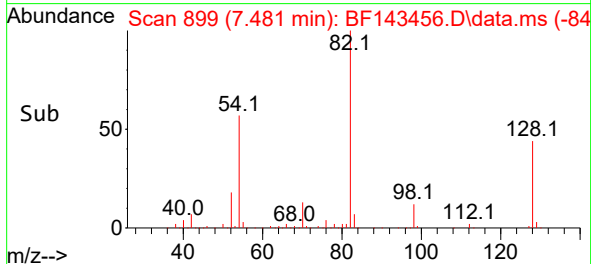
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



Tgt Ion: 82 Resp: 25666
Ion Ratio Lower Upper
82 100
128 43.6 34.6 52.0
54 57.3 46.0 69.0

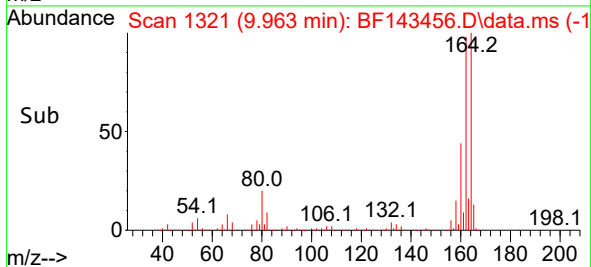
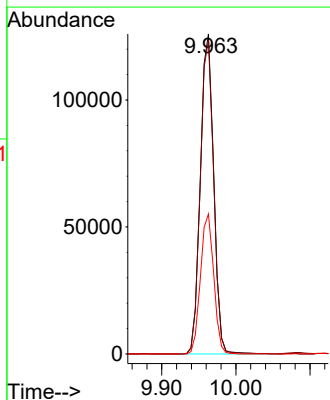
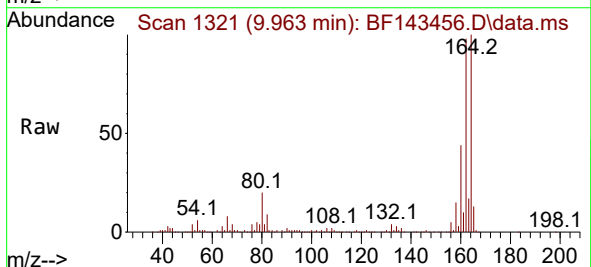
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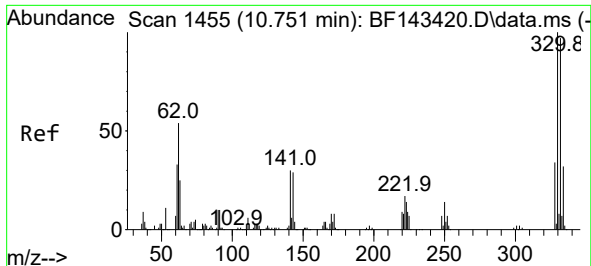
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.000 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

Tgt Ion:164 Resp: 157233
Ion Ratio Lower Upper
164 100
162 98.1 80.6 121.0
160 43.7 34.6 51.8





#42

2,4,6-Tribromophenol

Concen: 74.696 ng

RT: 10.751 min Scan# 1455

Delta R.T. -0.000 min

Lab File: BF143456.D

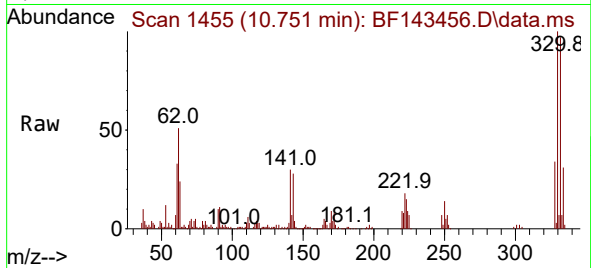
Acq: 19 Aug 2025 14:57

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP08-081425



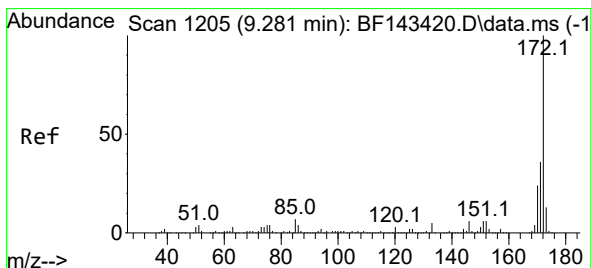
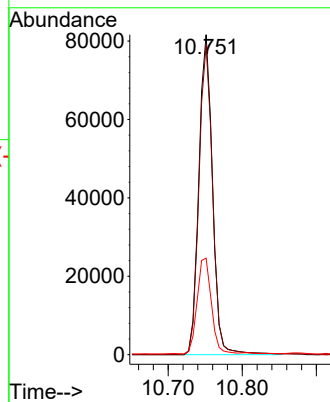
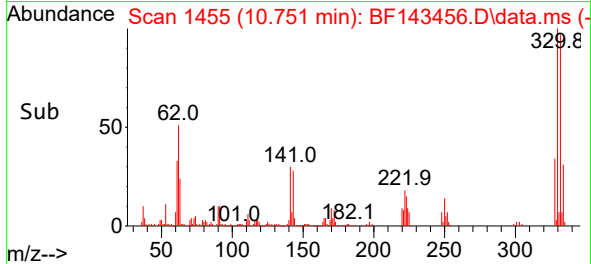
Tgt Ion:	330	Resp:	10453
Ion Ratio	Lower	Upper	
330	100		
332	96.7	77.4	116.2
141	30.9	24.1	36.1

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Supervised By :Jagrut Upadhyay 08/20/2025



#45

2-Fluorobiphenyl

Concen: 50.347 ng

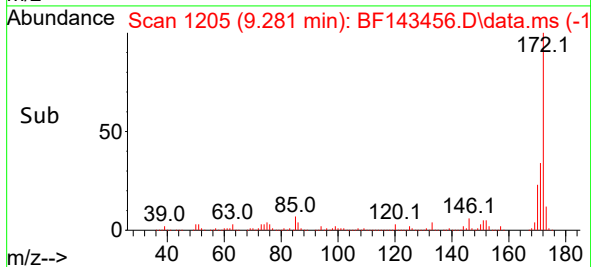
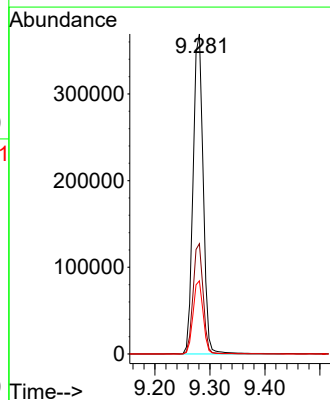
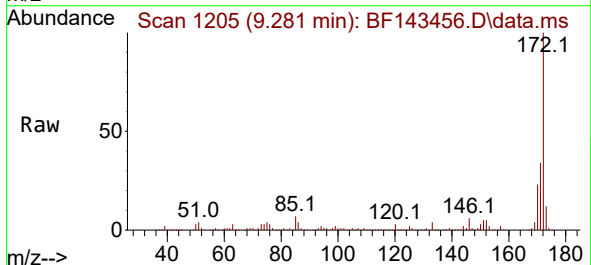
RT: 9.281 min Scan# 1205

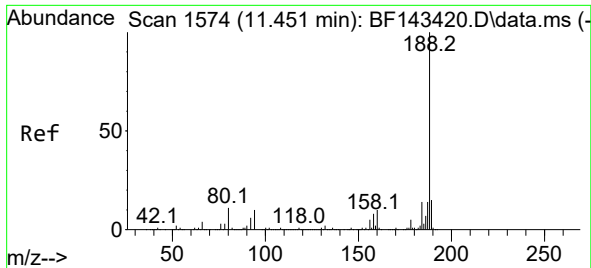
Delta R.T. -0.000 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

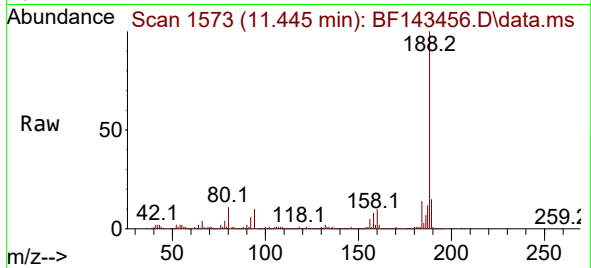
Tgt Ion:	172	Resp:	470643
Ion Ratio	Lower	Upper	
172	100		
171	34.5	28.7	43.1
170	22.9	19.0	28.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

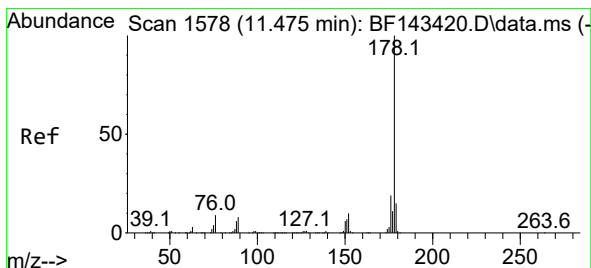
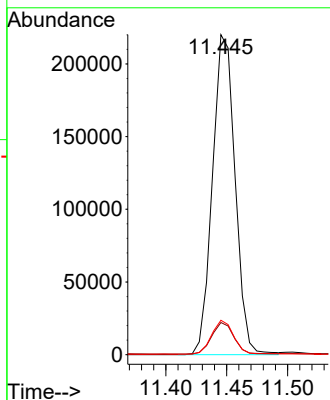
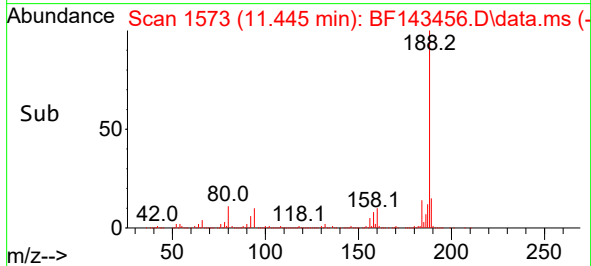
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



Tgt Ion:188 Resp: 28458
Ion Ratio Lower Upper
188 100
94 10.1 8.0 12.0
80 10.8 8.6 12.8

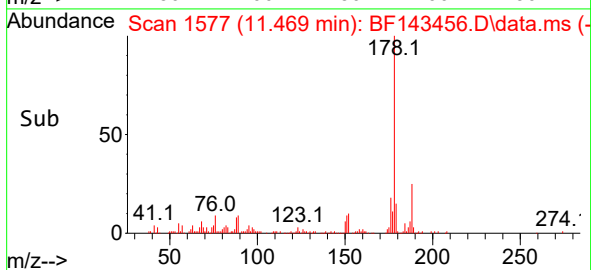
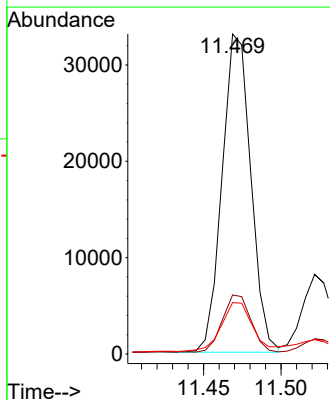
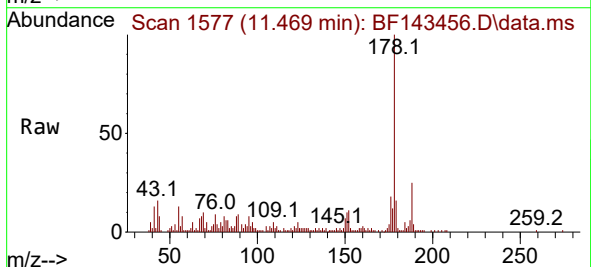
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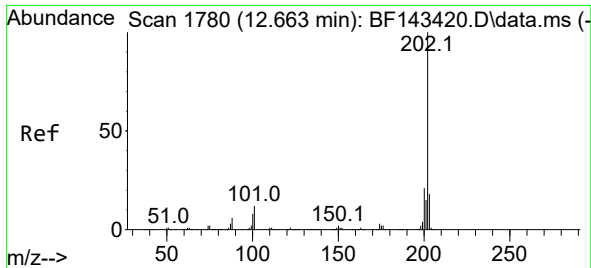
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#71
Phenanthrene
Concen: 2.761 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

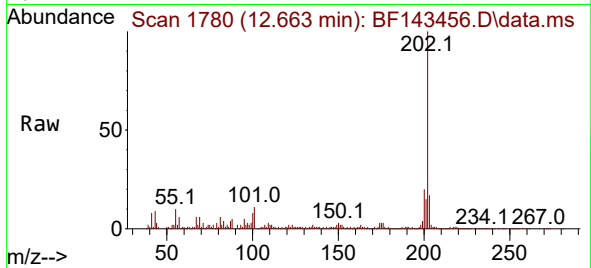
Tgt Ion:178 Resp: 42555
Ion Ratio Lower Upper
178 100
176 18.4 15.4 23.0
179 16.0 12.3 18.5





#75
Fluoranthene
Concen: 10.433 ng
RT: 12.663 min Scan# 1780
Delta R.T. -0.000 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

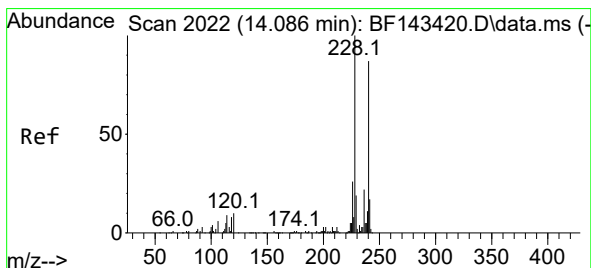
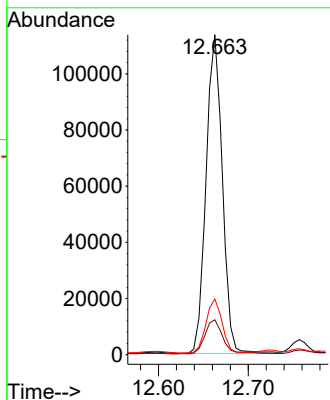
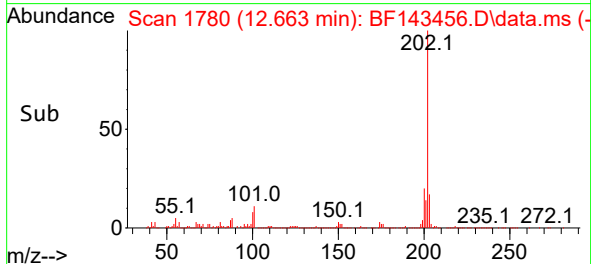
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



Tgt Ion:202 Resp: 142859
Ion Ratio Lower Upper
202 100
101 10.9 0.0 31.5
203 17.4 0.0 37.5

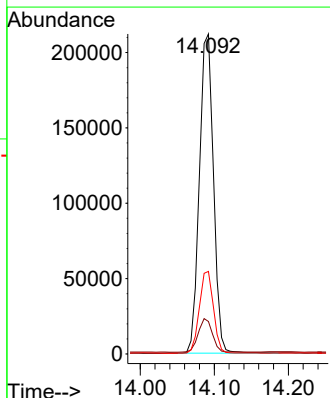
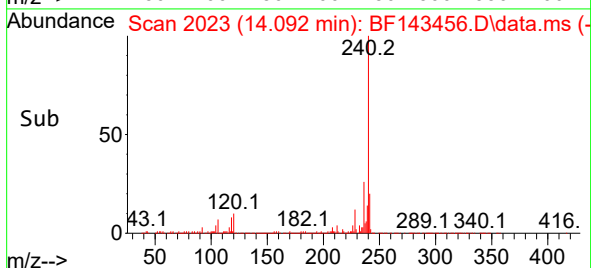
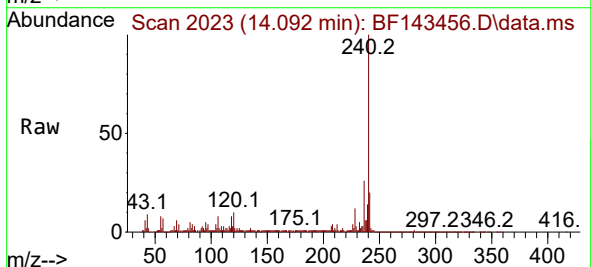
Manual Integrations
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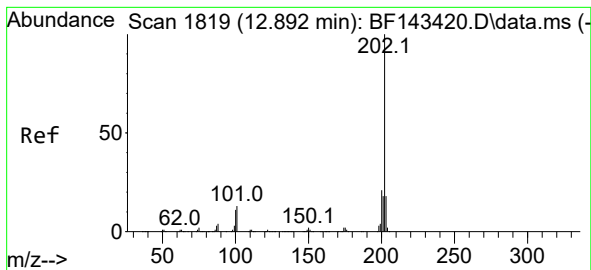
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. 0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

Tgt Ion:240 Resp: 279953
Ion Ratio Lower Upper
240 100
120 10.1 9.0 13.4
236 25.8 20.2 30.2





#78

Pyrene

Concen: 5.261 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.000 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP08-081425

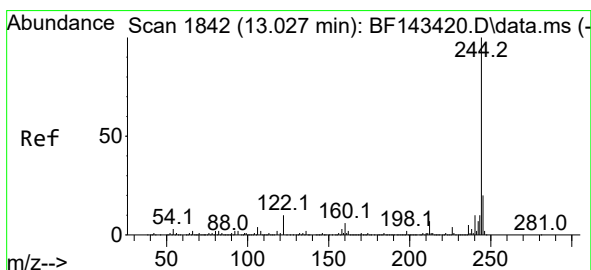
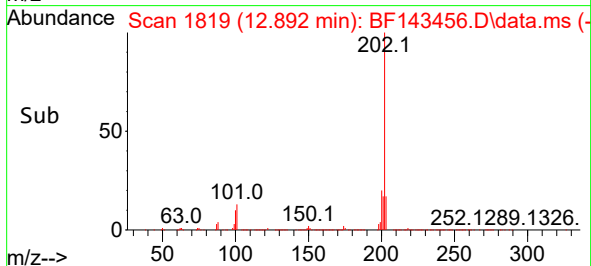
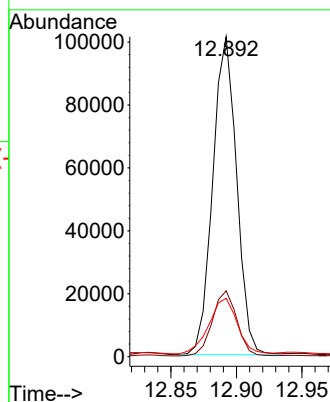
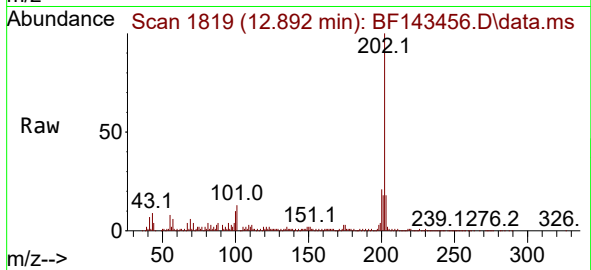
Tgt Ion:	202	Resp:	12801
Ion Ratio	Lower	Upper	
202	100		
200	20.6	17.1	25.7
203	18.3	14.2	21.2

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#79

Terphenyl-d14

Concen: 41.708 ng

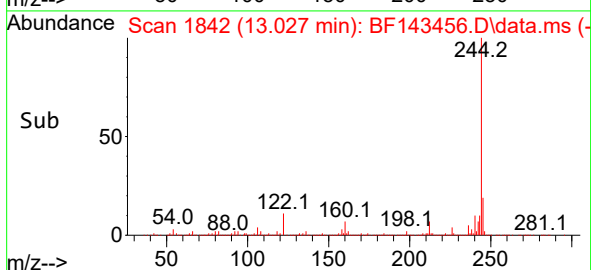
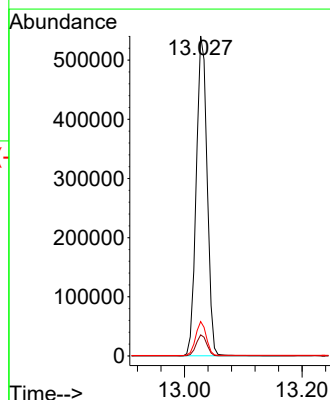
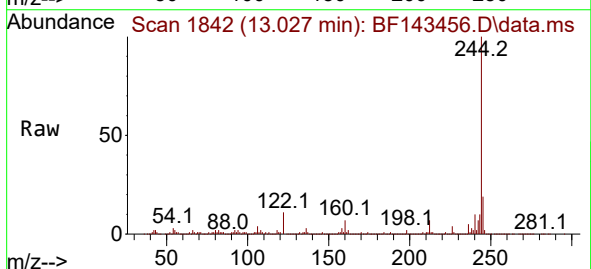
RT: 13.027 min Scan# 1842

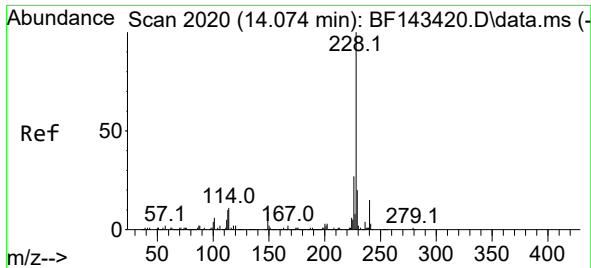
Delta R.T. -0.000 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

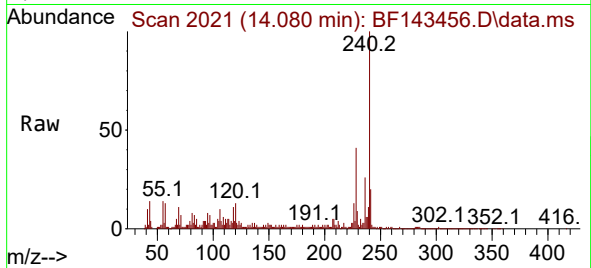
Tgt Ion:	244	Resp:	695073
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.2	7.8
122	10.7	8.3	12.5





#81
Benzo(a)anthracene
Concen: 4.239 ng
RT: 14.080 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

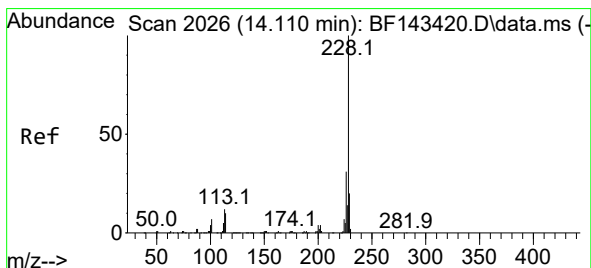
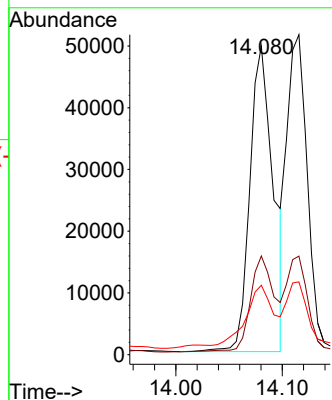
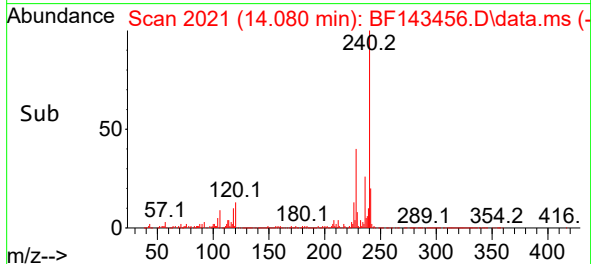
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



Tgt Ion:228 Resp: 7555
Ion Ratio Lower Upper
228 100
226 32.0 21.5 32.3
229 22.5 15.7 23.5

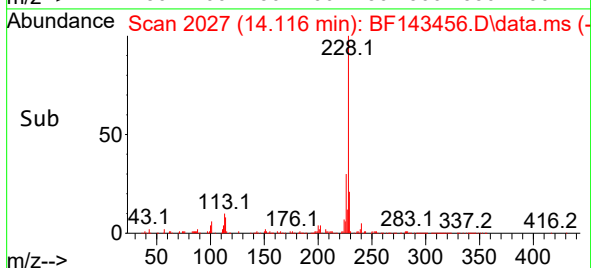
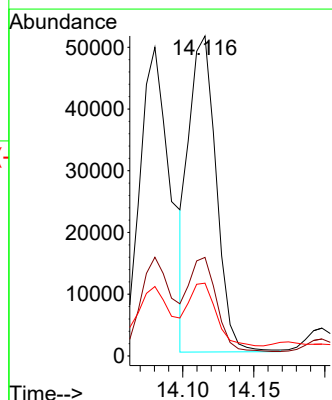
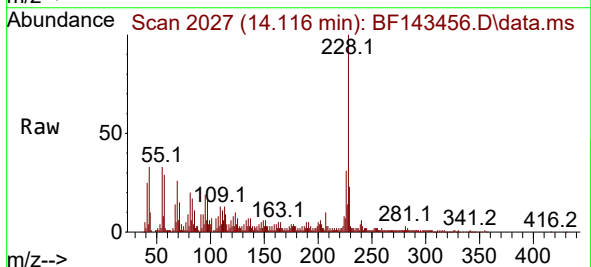
Manual Integrations
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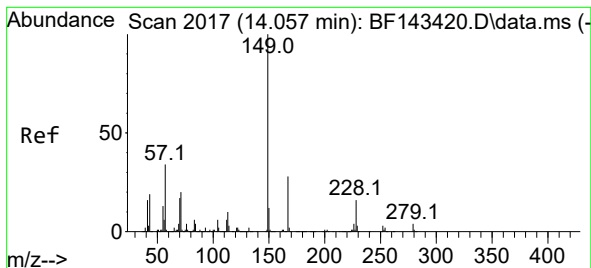
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#83
Chrysene
Concen: 4.135 ng
RT: 14.116 min Scan# 2027
Delta R.T. 0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

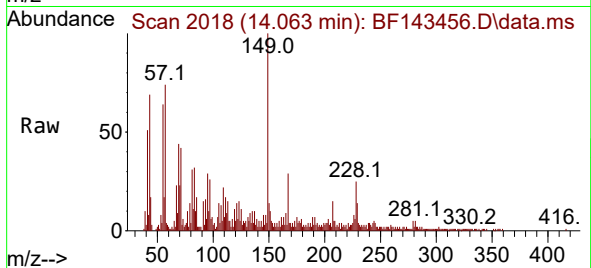
Tgt Ion:228 Resp: 68136
Ion Ratio Lower Upper
228 100
226 30.8 24.3 36.5
229 22.8 16.1 24.1





#84
Bis(2-ethylhexyl)phthalate
Concen: 4.427 ng
RT: 14.063 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

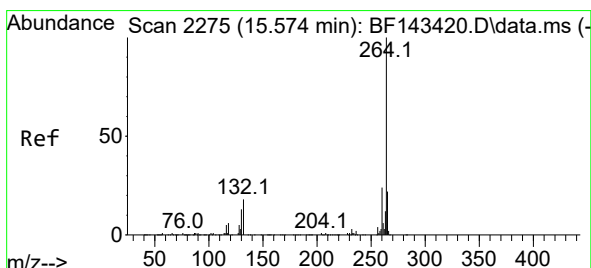
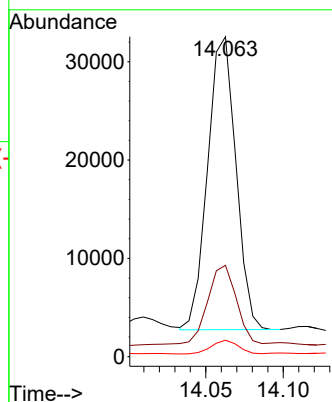
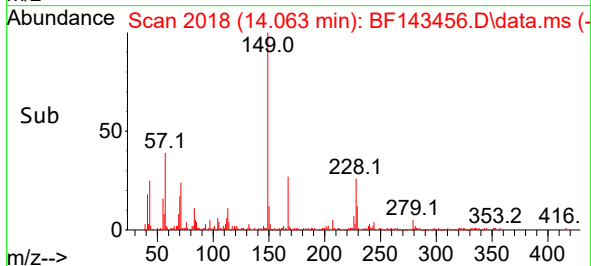
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP08-081425



Tgt Ion:149 Resp: 37889
Ion Ratio Lower Upper
149 100
167 28.6 22.6 33.8
279 5.1 3.5 5.3

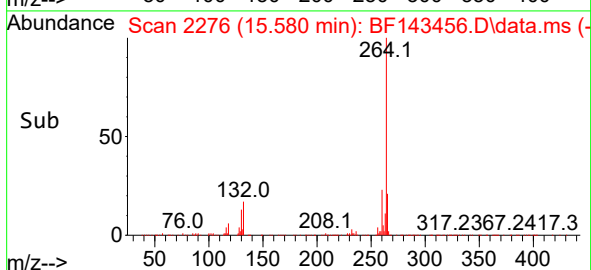
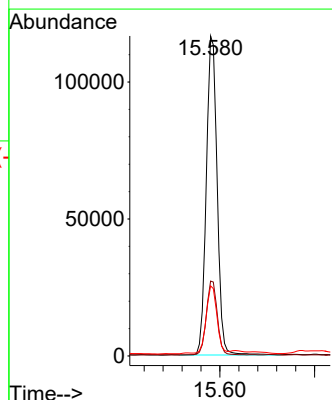
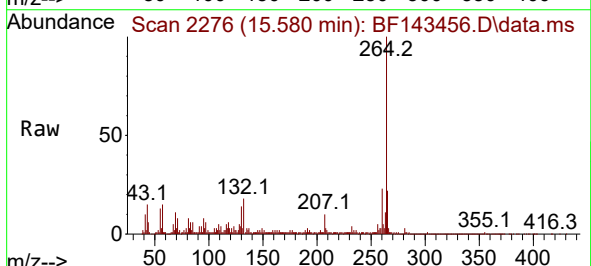
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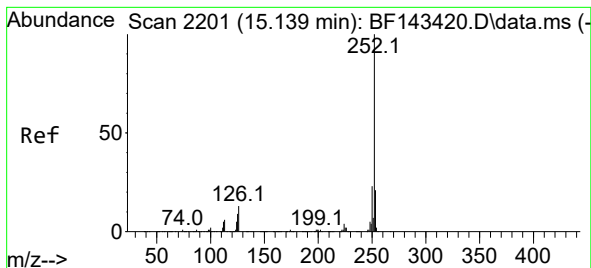
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2276
Delta R.T. 0.006 min
Lab File: BF143456.D
Acq: 19 Aug 2025 14:57

Tgt Ion:264 Resp: 184800
Ion Ratio Lower Upper
264 100
260 23.4 18.8 28.2
265 21.9 17.4 26.0





#88

Benzo(b)fluoranthene

Concen: 7.322 ng m

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP08-081425

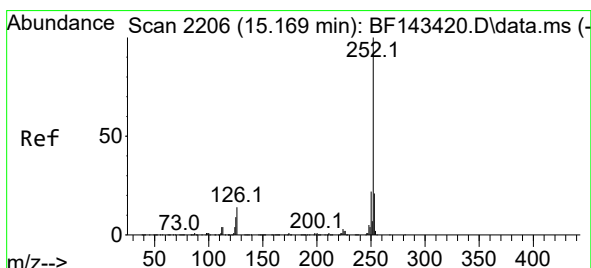
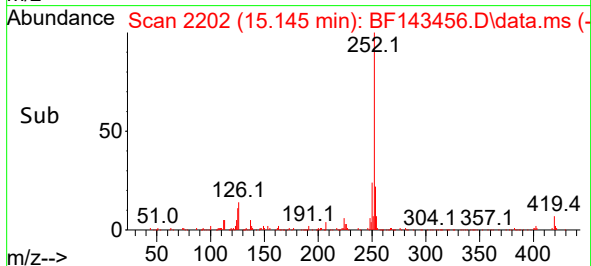
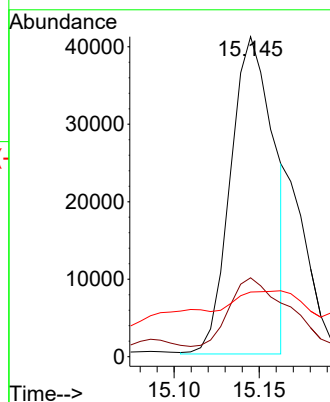
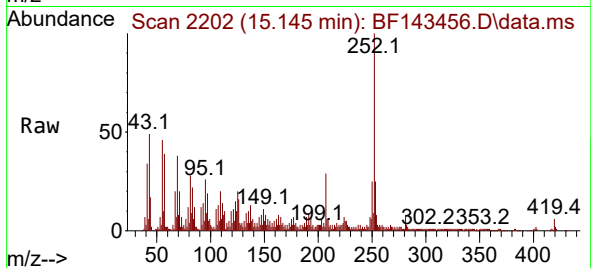
Tgt Ion:	252	Resp:	72524
Ion Ratio	Lower	Upper	
252	100		
253	24.6	17.1	25.7
125	20.2	7.5	11.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#89

Benzo(k)fluoranthene

Concen: 2.307 ng m

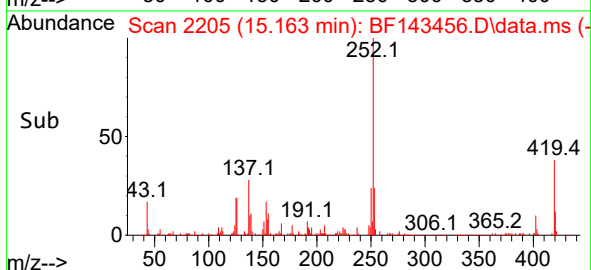
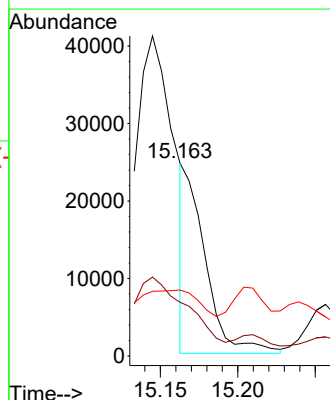
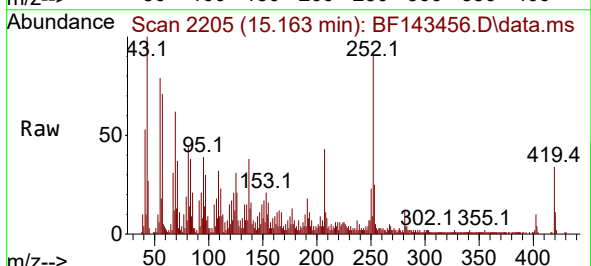
RT: 15.163 min Scan# 2205

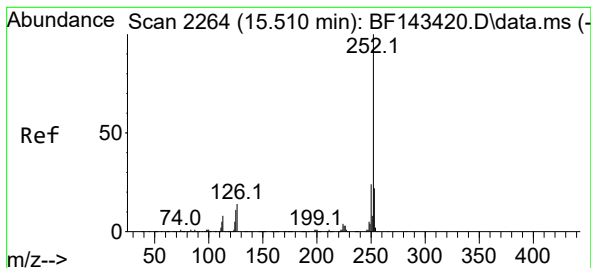
Delta R.T. -0.006 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

Tgt Ion:	252	Resp:	22536
Ion Ratio	Lower	Upper	
252	100		
253	27.8	17.2	25.8#
125	34.1	7.4	11.2#





#90

Benzo(a)pyrene

Concen: 4.247 ng

RT: 15.516 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP08-081425

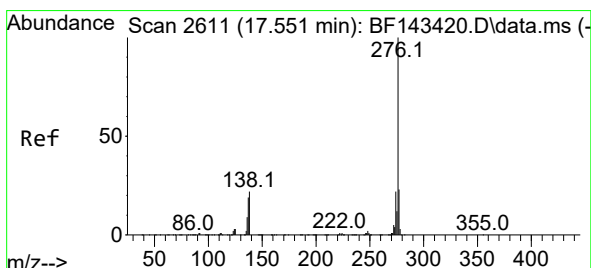
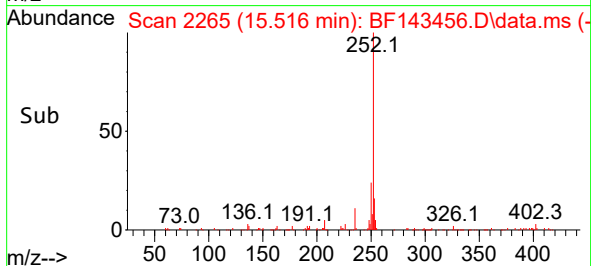
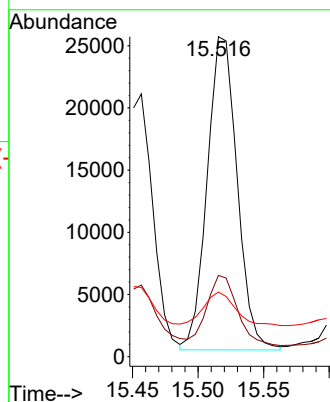
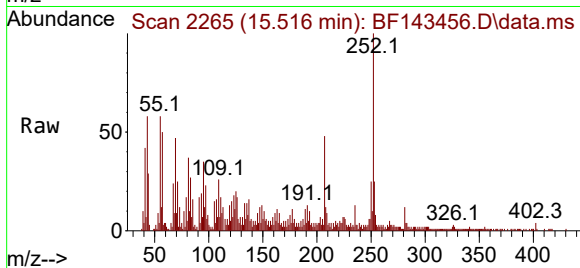
Tgt Ion:	252	Resp:	4006
Ion Ratio	Lower	Upper	
252	100		
253	25.4	17.4	26.2
125	20.2	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#92

Benzo(g,h,i)perylene

Concen: 2.549 ng

RT: 17.568 min Scan# 2614

Delta R.T. 0.018 min

Lab File: BF143456.D

Acq: 19 Aug 2025 14:57

Tgt Ion:	276	Resp:	28343
Ion Ratio	Lower	Upper	
276	100		
277	26.3	18.7	28.1
138	28.1	17.5	26.3

