

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
 Data File : BF143459.D
 Acq On : 19 Aug 2025 16:24
 Operator : RC/JU
 Sample : Q2879-17
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP11-081425

Manual Integrations
 APPROVED

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

Quant Time: Aug 19 16:43:51 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	97604	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	324465	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	169368	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	306262	20.000	ng	0.00
76) Chrysene-d12	14.092	240	251302	20.000	ng	0.00
86) Perylene-d12	15.586	264	171573	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.569	112	518248	92.300	ng	0.01
7) Phenol-d6	6.563	99	602112	85.092	ng	0.00
23) Nitrobenzene-d5	7.481	82	354131	64.764	ng	0.00
42) 2,4,6-Tribromophenol	10.751	330	156037	103.507	ng	0.00
45) 2-Fluorobiphenyl	9.280	172	636012	63.162	ng	0.00
79) Terphenyl-d14	13.033	244	827593	55.321	ng	0.00
Target Compounds						Qvalue
6) Aniline	6.575	93	27312	2.843	ng	90
71) Phenanthrene	11.474	178	50404	3.039	ng	99
75) Fluoranthene	12.663	202	146224	9.923	ng	99
78) Pyrene	12.892	202	124021	5.678	ng	98
81) Benzo(a)anthracene	14.080	228	61995	3.875	ng	# 91
83) Chrysene	14.115	228	58931	3.984	ng	95
88) Benzo(b)fluoranthene	15.145	252	59170m	6.435	ng	
89) Benzo(k)fluoranthene	15.162	252	21676m	2.390	ng	
90) Benzo(a)pyrene	15.521	252	34862	3.980	ng	# 86
92) Benzo(g,h,i)perylene	17.580	276	24858	2.408	ng	# 87

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

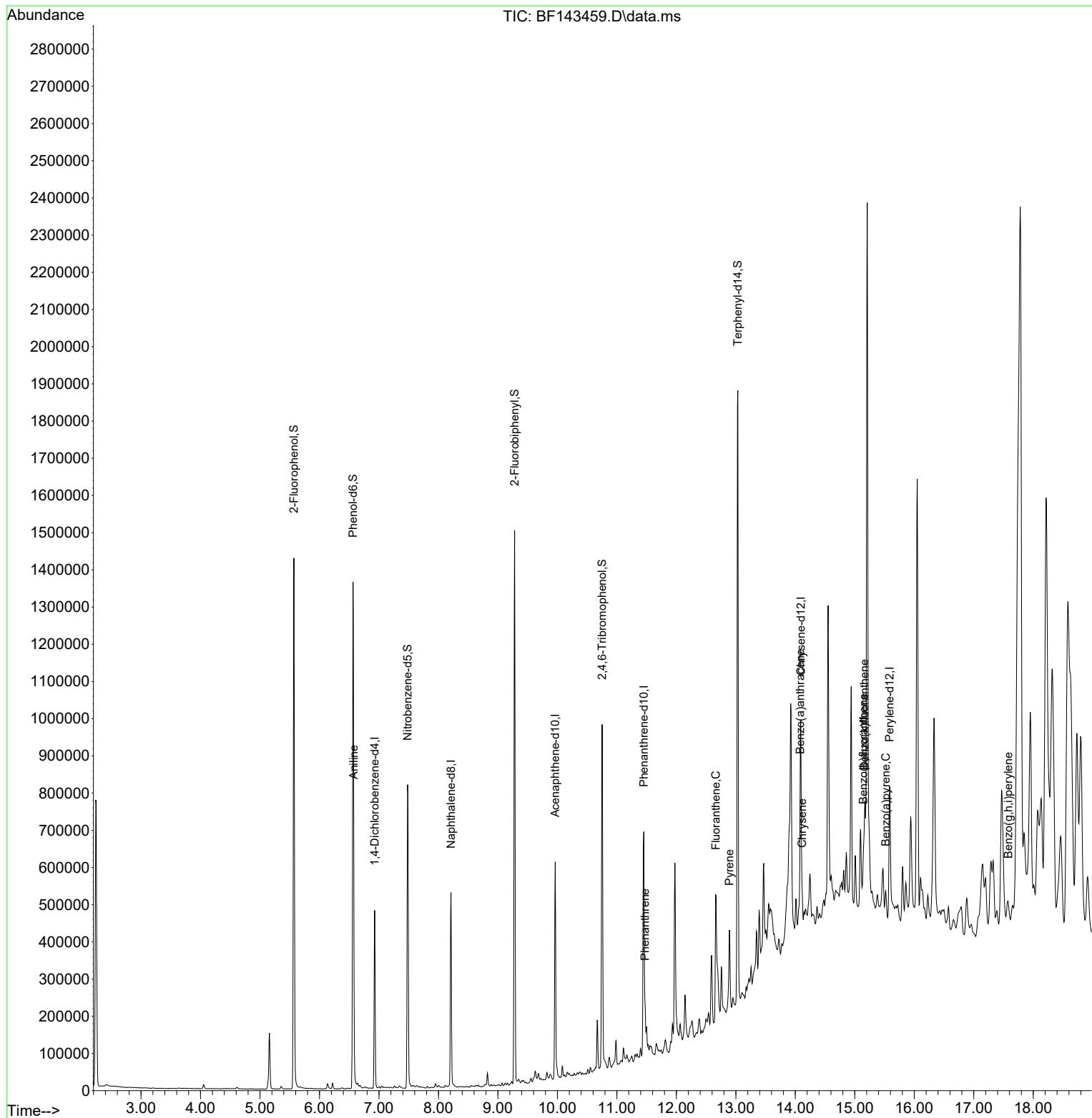
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
Data File : BF143459.D
Acq On : 19 Aug 2025 16:24
Operator : RC/JU
Sample : Q2879-17
Misc :
ALS Vial : 16 Sample Multiplier: 1

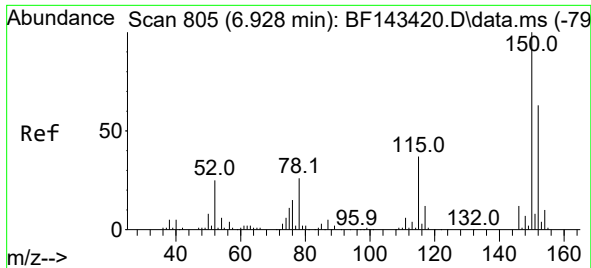
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425

Quant Time: Aug 19 16:43:51 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

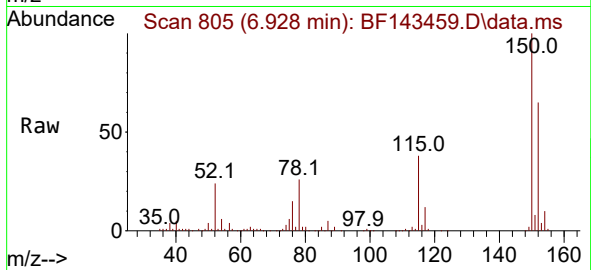
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 805
Delta R.T. -0.000 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

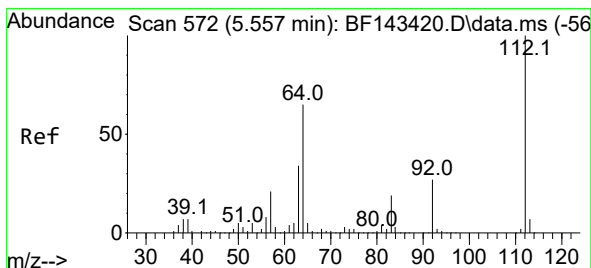
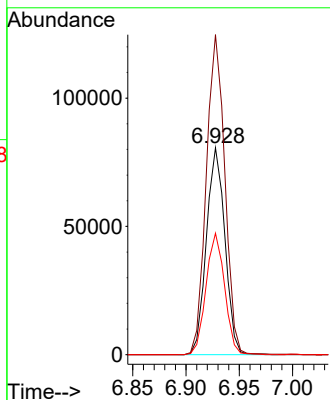
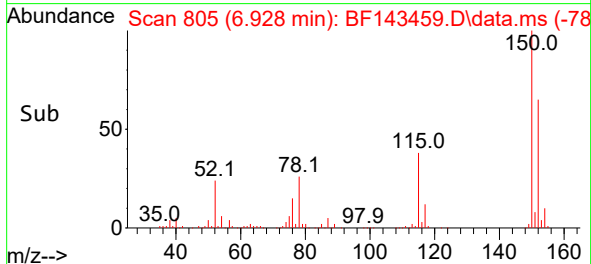
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425



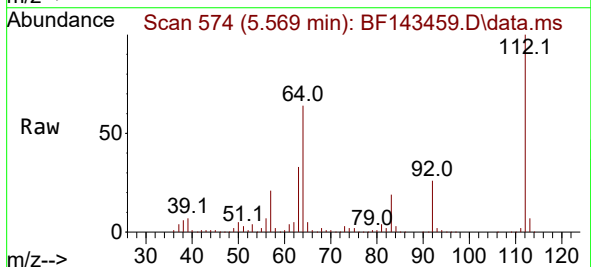
Tgt Ion:152 Resp: 97604
Ion Ratio Lower Upper
152 100
150 154.6 127.4 191.2
115 58.7 47.5 71.3

Manual Integrations
APPROVED

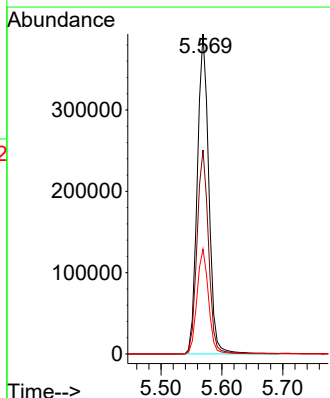
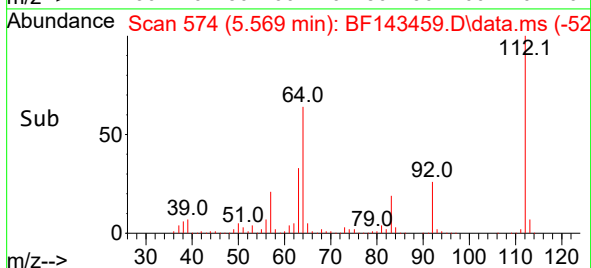
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

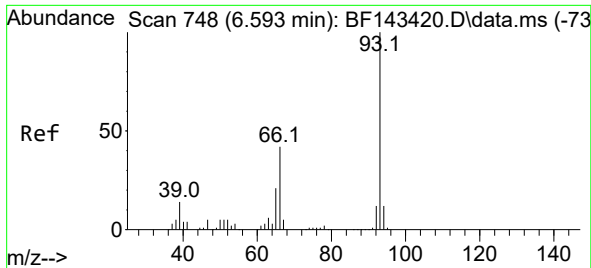


#5
2-Fluorophenol
Concen: 92.300 ng
RT: 5.569 min Scan# 574
Delta R.T. 0.012 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24



Tgt Ion:112 Resp: 518248
Ion Ratio Lower Upper
112 100
64 63.8 52.2 78.2
63 32.7 27.0 40.6





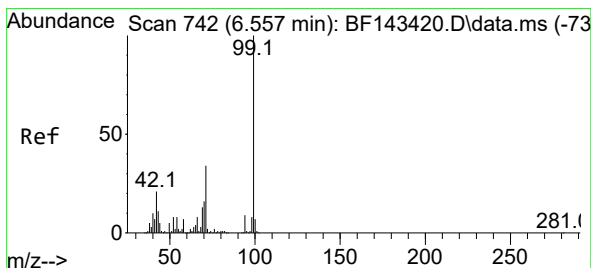
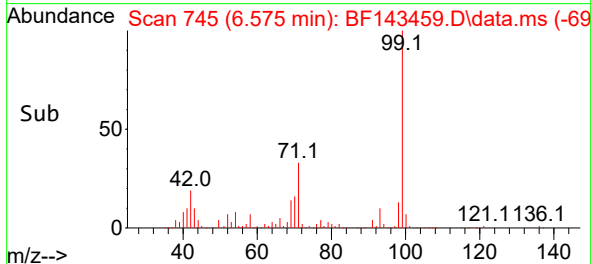
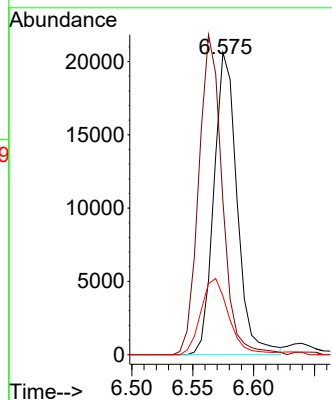
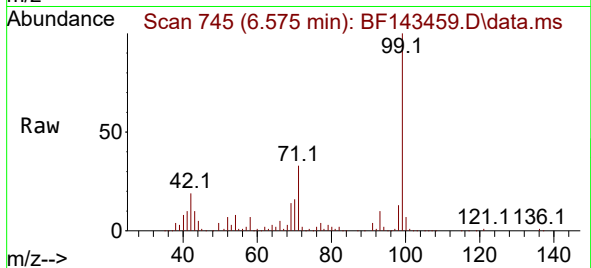
#6
Aniline
Concen: 2.843 ng
RT: 6.575 min Scan# 743
Delta R.T. -0.018 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425

Tgt Ion: 93 Resp: 27312
Ion Ratio Lower Upper
93 100
66 50.7 33.8 50.8
65 19.4 17.2 25.8

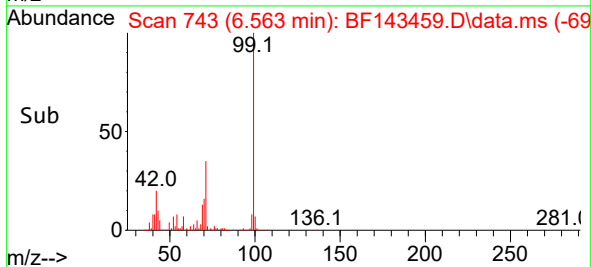
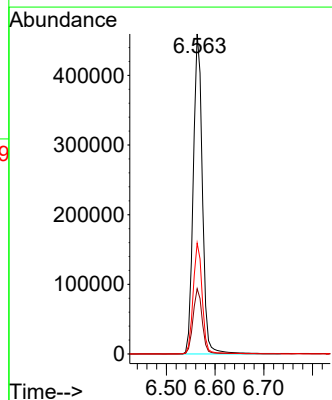
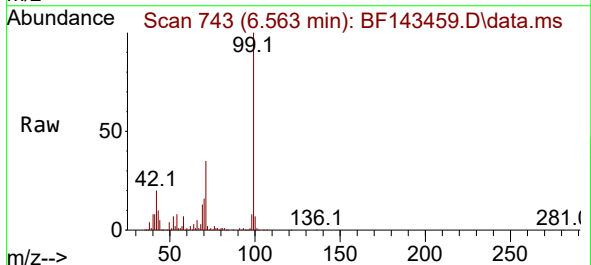
Manual Integrations
APPROVED

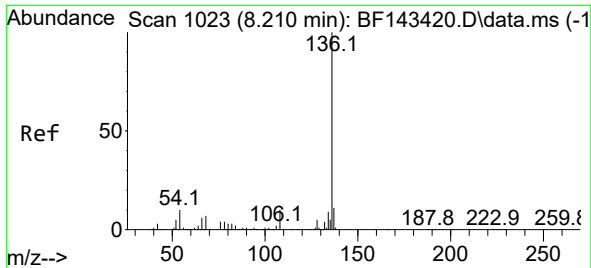
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#7
Phenol-d6
Concen: 85.092 ng
RT: 6.563 min Scan# 743
Delta R.T. 0.006 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

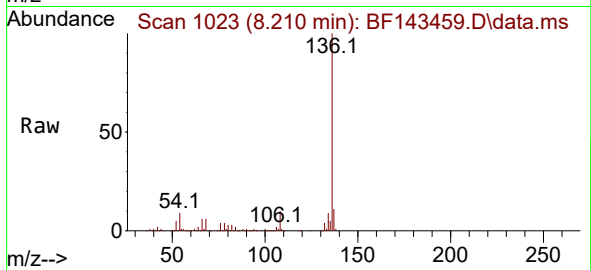
Tgt Ion: 99 Resp: 602112
Ion Ratio Lower Upper
99 100
42 20.4 17.0 25.6
71 34.6 27.4 41.2





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

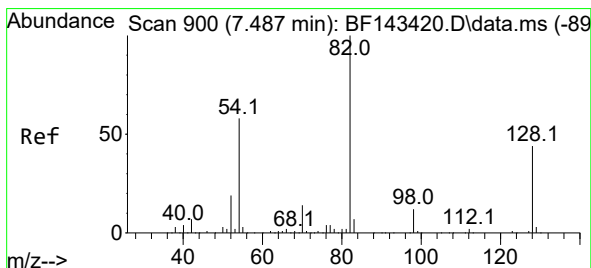
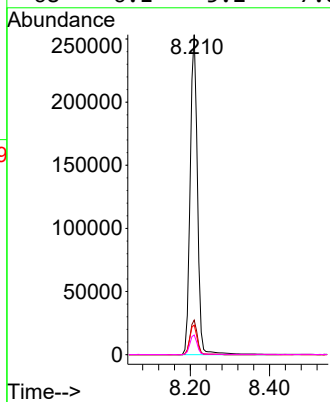
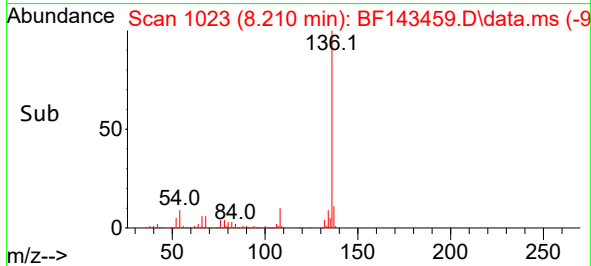
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425



Tgt Ion:136 Resp: 32446
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 9.3 7.8 11.8
68 6.1 5.2 7.8

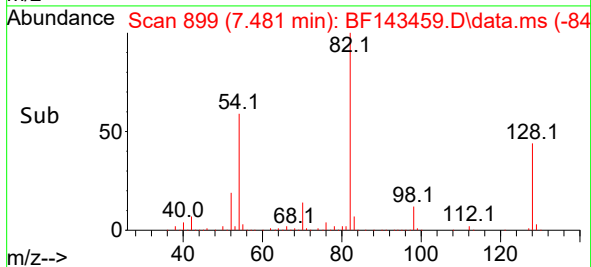
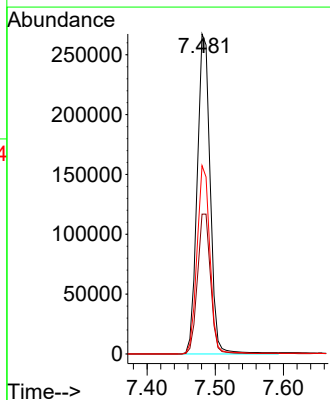
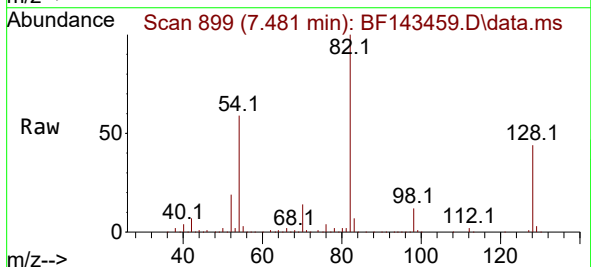
Manual Integrations
APPROVED

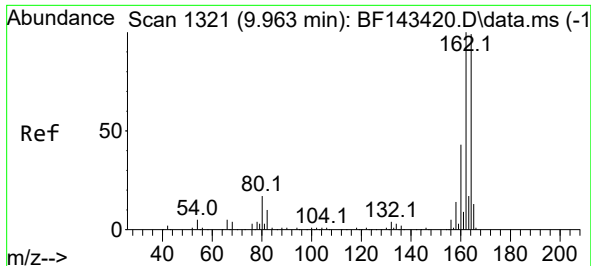
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#23
Nitrobenzene-d5
Concen: 64.764 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

Tgt Ion: 82 Resp: 354131
Ion Ratio Lower Upper
82 100
128 43.7 34.6 52.0
54 58.9 46.0 69.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.963 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF143459.D

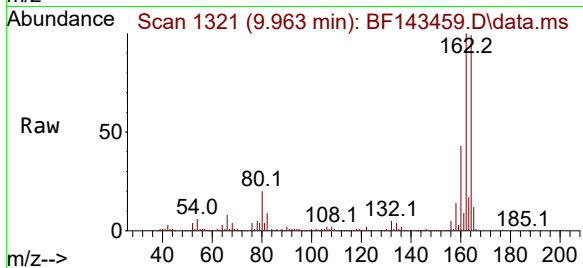
Acq: 19 Aug 2025 16:24

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP11-081425



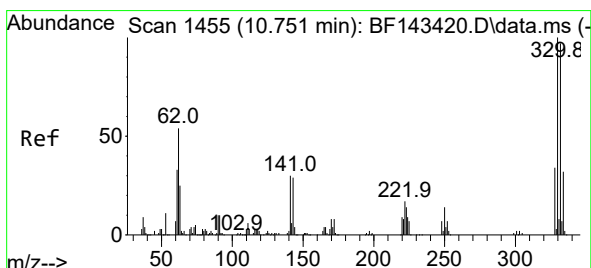
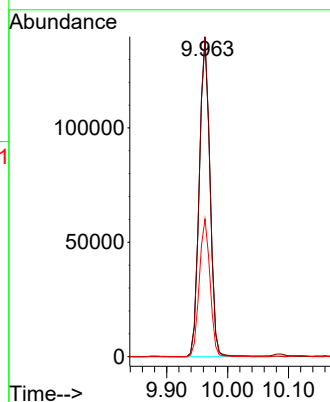
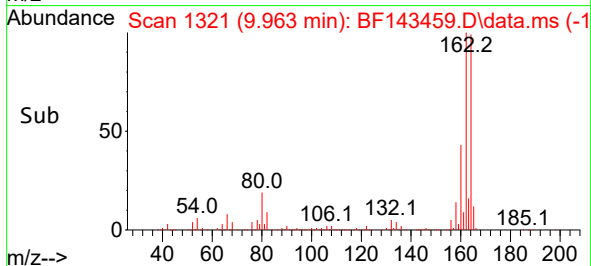
Tgt Ion:164	Resp: 16936
Ion Ratio	Lower Upper
164	100
162	101.1 80.6 121.0
160	43.5 34.6 51.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#42

2,4,6-Tribromophenol

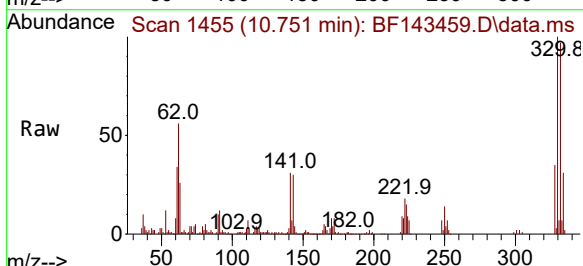
Concen: 103.507 ng

RT: 10.751 min Scan# 1455

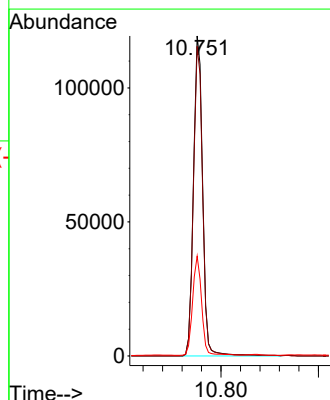
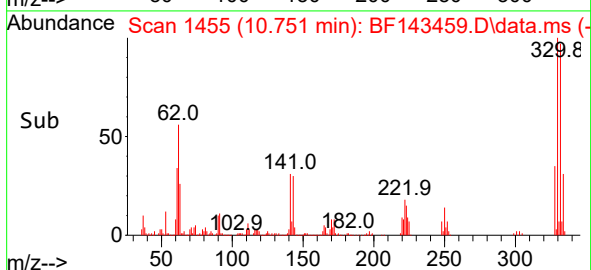
Delta R.T. -0.000 min

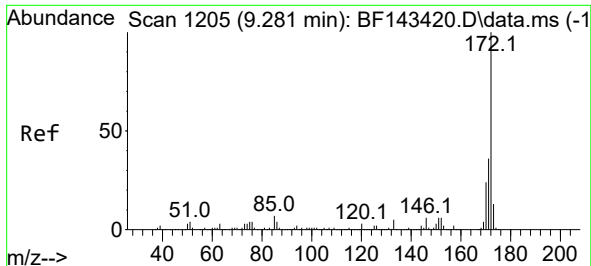
Lab File: BF143459.D

Acq: 19 Aug 2025 16:24



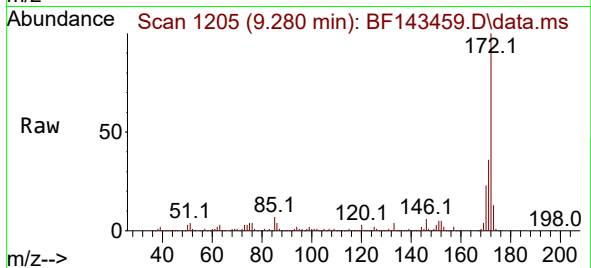
Tgt Ion:330	Resp: 156037
Ion Ratio	Lower Upper
330	100
332	96.6 77.4 116.2
141	30.2 24.1 36.1





#45
2-Fluorobiphenyl
Concen: 63.162 ng
RT: 9.280 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

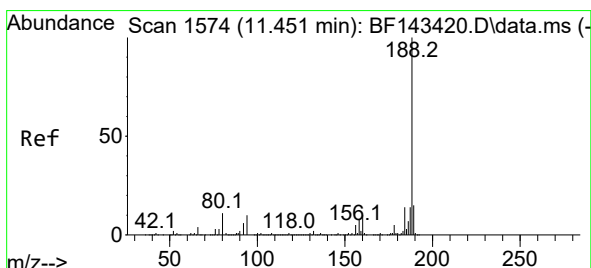
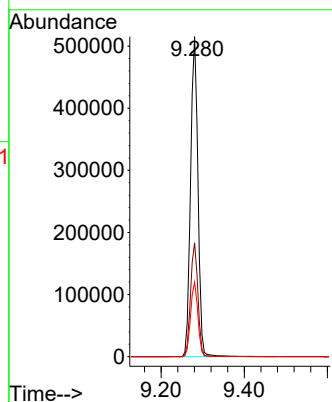
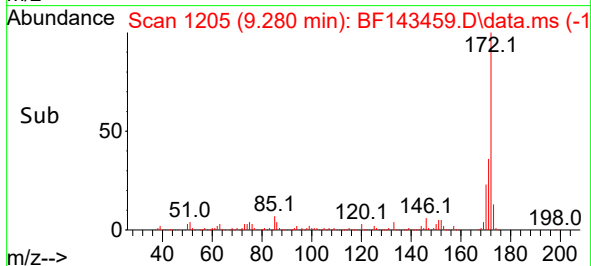
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425



Tgt Ion:172 Resp: 636012
Ion Ratio Lower Upper
172 100
171 35.6 28.7 43.1
170 23.3 19.0 28.6

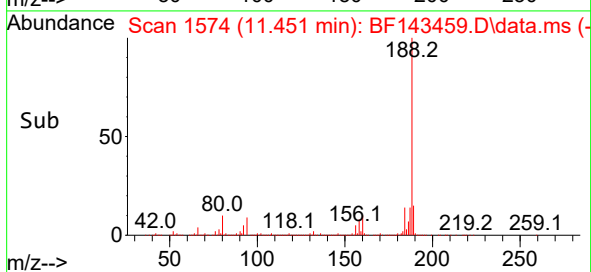
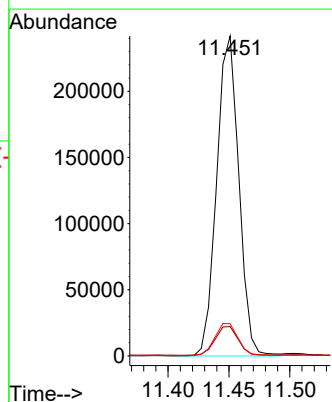
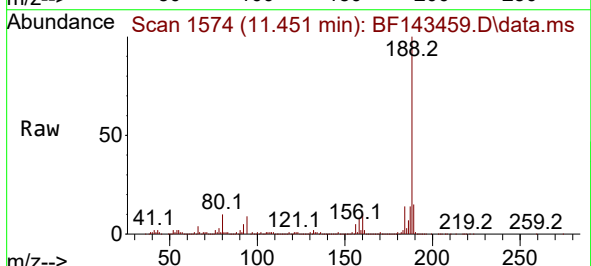
Manual Integrations
APPROVED

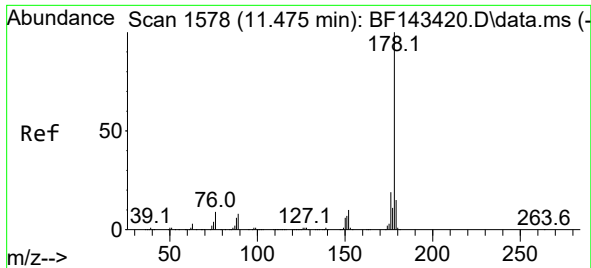
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

Tgt Ion:188 Resp: 306262
Ion Ratio Lower Upper
188 100
94 9.2 8.0 12.0
80 10.1 8.6 12.8





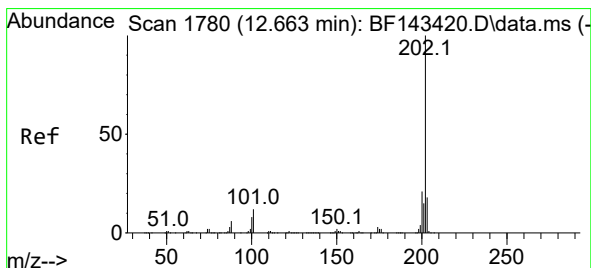
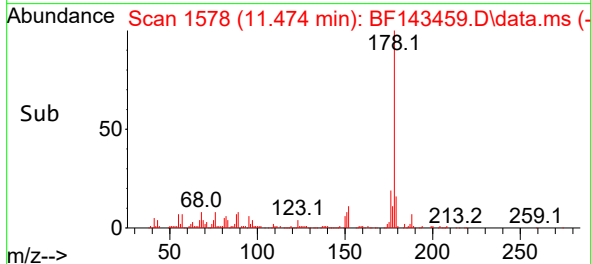
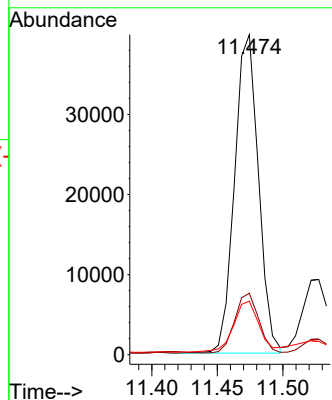
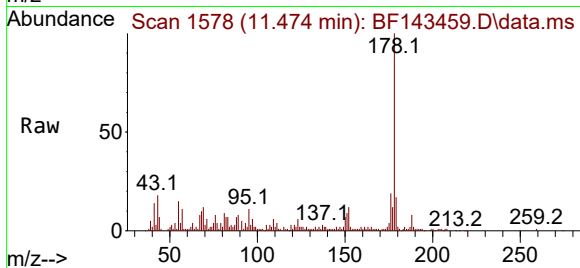
#71
Phenanthrene
Concen: 3.039 ng
RT: 11.474 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425

Tgt Ion:178 Resp: 50404
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 16.7 12.3 18.5

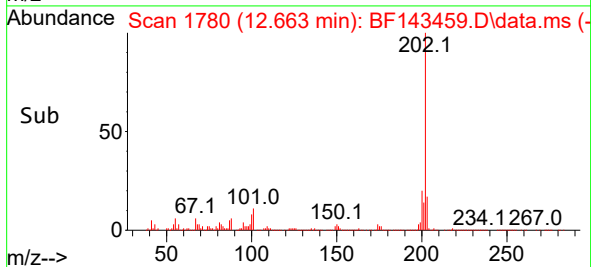
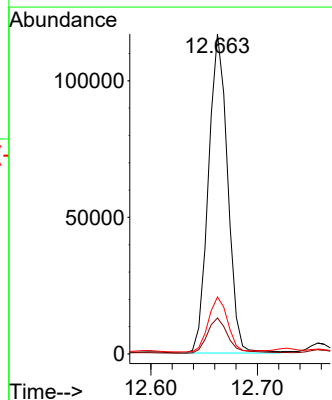
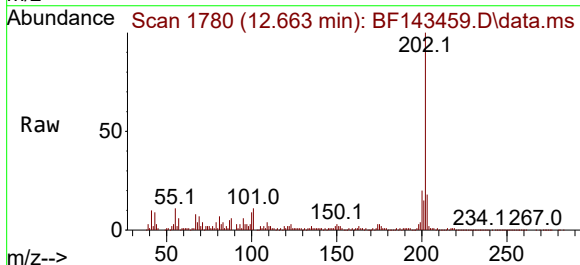
Manual Integrations
APPROVED

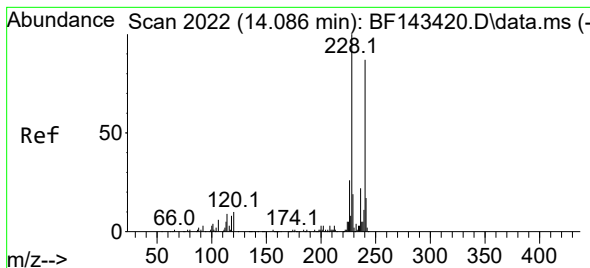
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#75
Fluoranthene
Concen: 9.923 ng
RT: 12.663 min Scan# 1780
Delta R.T. -0.000 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

Tgt Ion:202 Resp: 146224
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.5
203 17.8 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.092 min Scan# 2022

Delta R.T. 0.006 min

Lab File: BF143459.D

Acq: 19 Aug 2025 16:24

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP11-081425

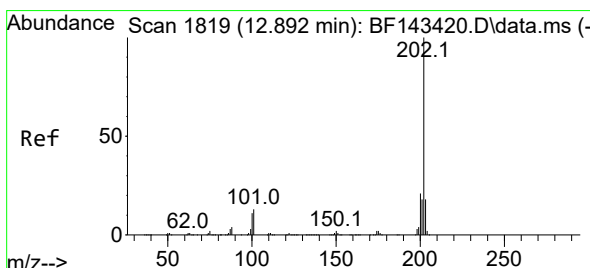
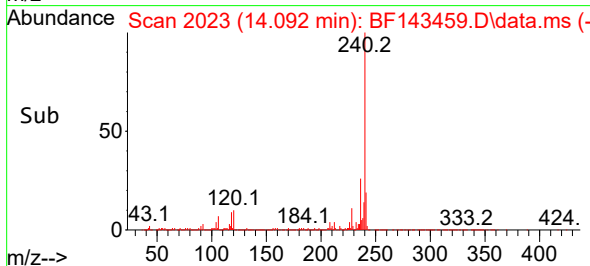
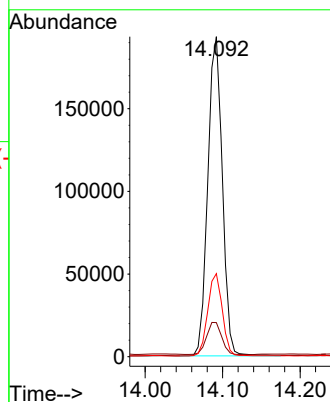
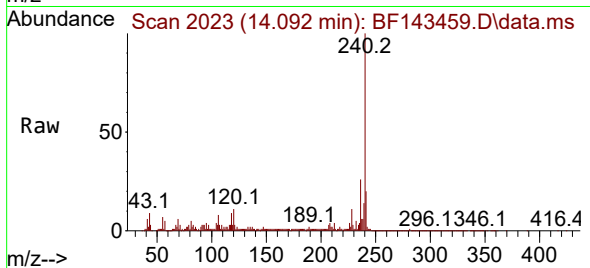
Tgt Ion:240 Resp: 251302
 Ion Ratio Lower Upper
 240 100
 120 10.7 9.0 13.4
 236 25.9 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#78

Pyrene

Concen: 5.678 ng

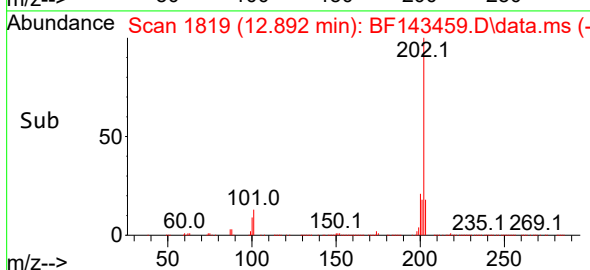
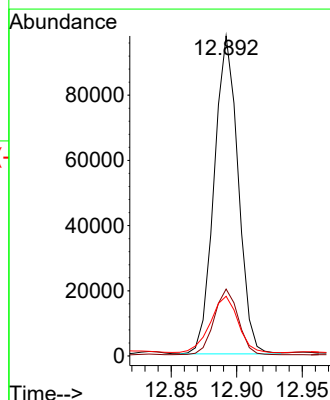
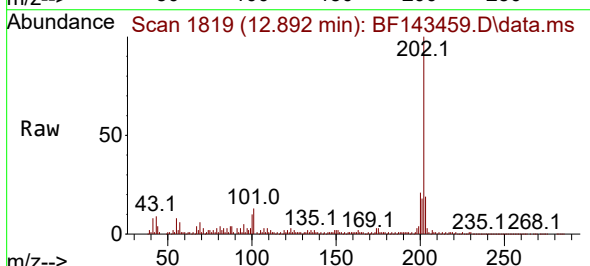
RT: 12.892 min Scan# 1819

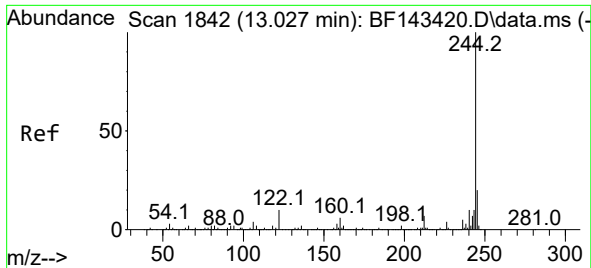
Delta R.T. -0.000 min

Lab File: BF143459.D

Acq: 19 Aug 2025 16:24

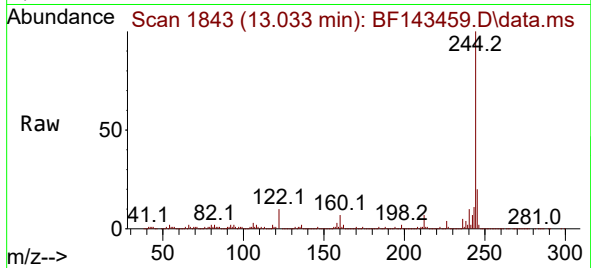
Tgt Ion:202 Resp: 124021
 Ion Ratio Lower Upper
 202 100
 200 20.9 17.1 25.7
 203 18.6 14.2 21.2





#79
 Terphenyl-d14
 Concen: 55.321 ng
 RT: 13.033 min Scan# 1843
 Delta R.T. 0.006 min
 Lab File: BF143459.D
 Acq: 19 Aug 2025 16:24

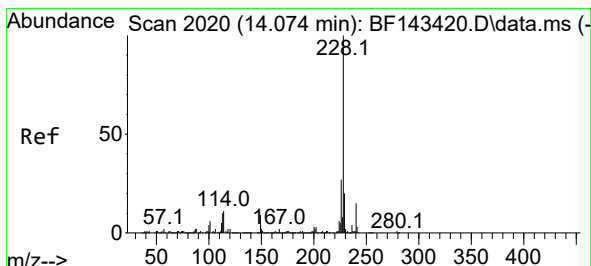
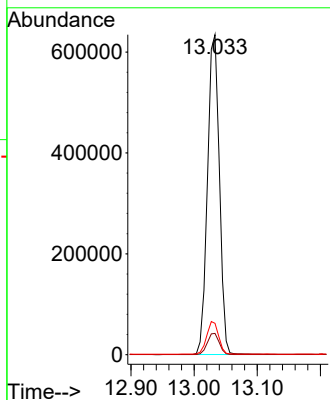
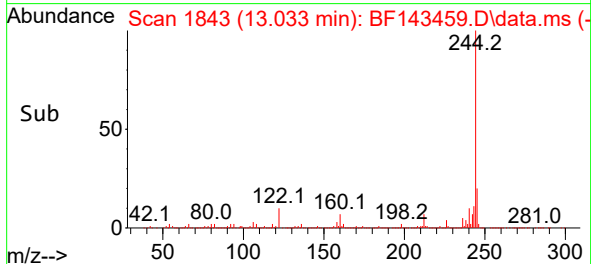
Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP11-081425



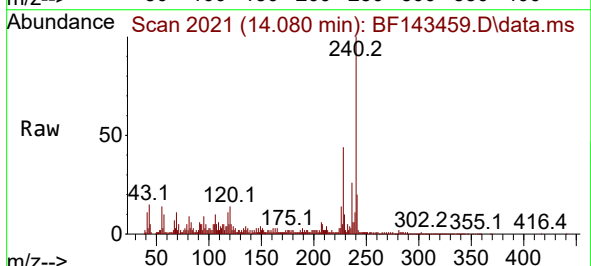
Tgt Ion:244 Resp: 82759
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.2 7.8
 122 9.8 8.3 12.5

Manual Integrations
 APPROVED

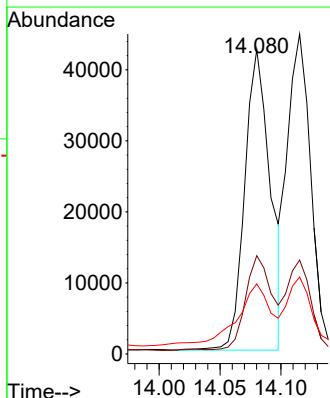
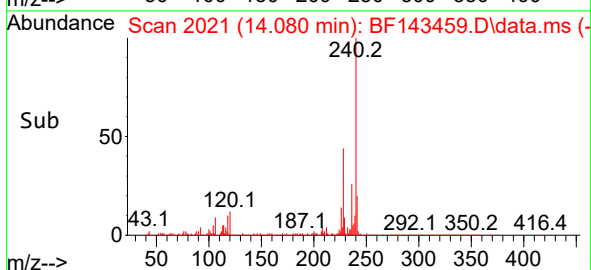
Reviewed By :Rahul Chavli 08/20/2025
 Supervised By :Jagrut Upadhyay 08/20/2025

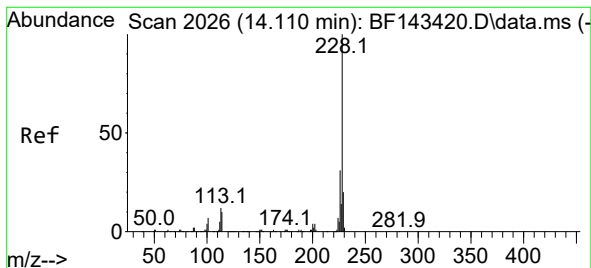


#81
 Benzo(a)anthracene
 Concen: 3.875 ng
 RT: 14.080 min Scan# 2021
 Delta R.T. 0.006 min
 Lab File: BF143459.D
 Acq: 19 Aug 2025 16:24



Tgt Ion:228 Resp: 61995
 Ion Ratio Lower Upper
 228 100
 226 32.3 21.5 32.3#
 229 23.0 15.7 23.5





#83

Chrysene

Concen: 3.984 ng

RT: 14.115 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF143459.D

Acq: 19 Aug 2025 16:24

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP11-081425

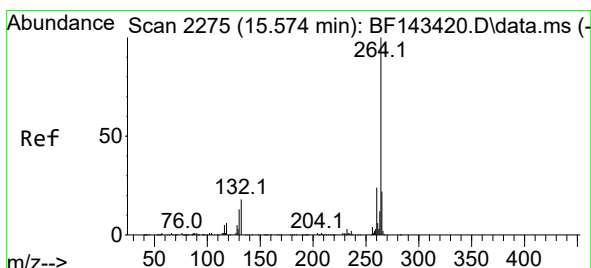
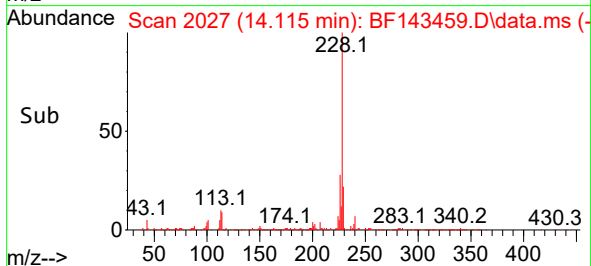
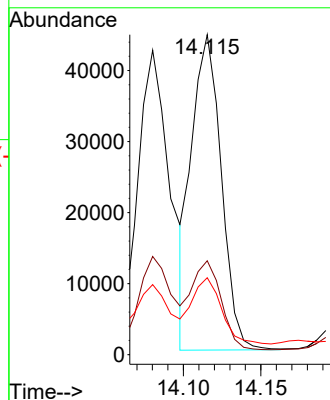
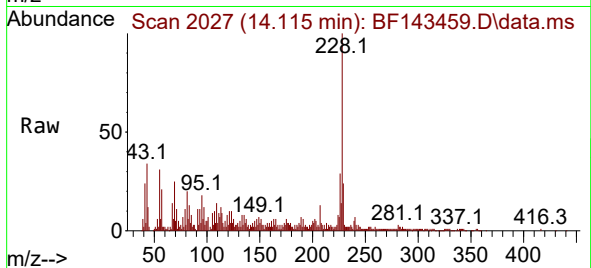
Tgt Ion:228 Resp: 5893
 Ion Ratio Lower Upper
 228 100
 226 29.3 24.3 36.5
 229 24.0 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#86

Perylene-d12

Concen: 20.000 ng

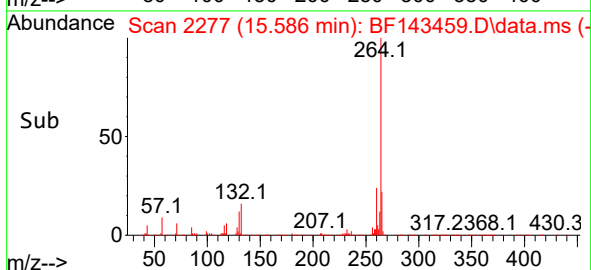
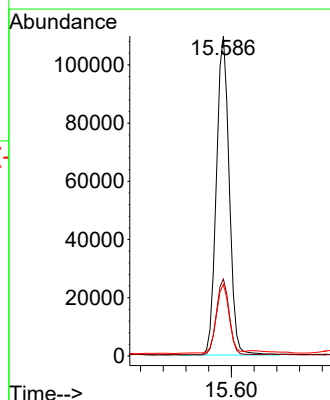
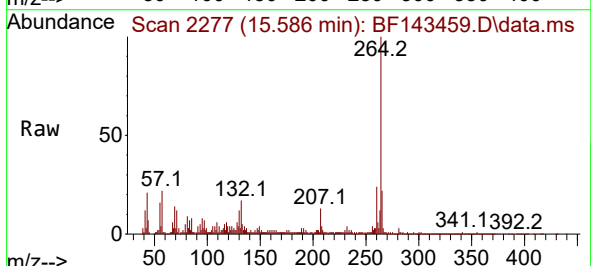
RT: 15.586 min Scan# 2277

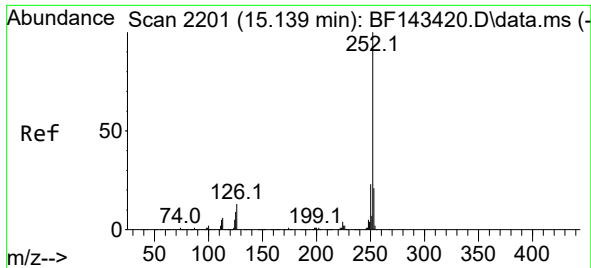
Delta R.T. 0.012 min

Lab File: BF143459.D

Acq: 19 Aug 2025 16:24

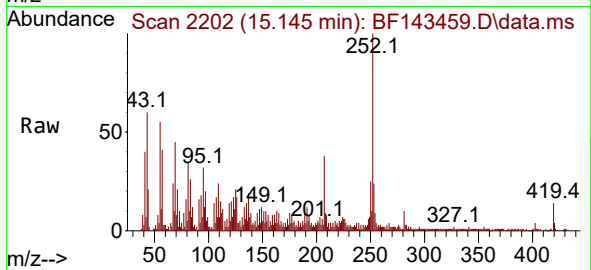
Tgt Ion:264 Resp: 171573
 Ion Ratio Lower Upper
 264 100
 260 24.1 18.8 28.2
 265 22.3 17.4 26.0





#88
Benzo(b)fluoranthene
Concen: 6.435 ng m
RT: 15.145 min Scan# 2201
Delta R.T. 0.006 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

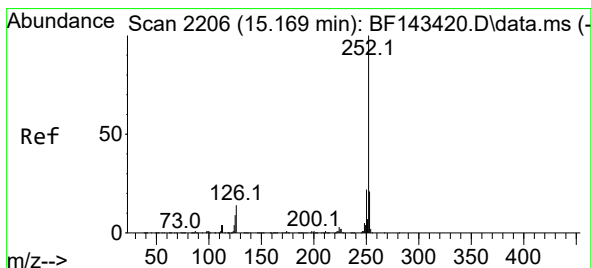
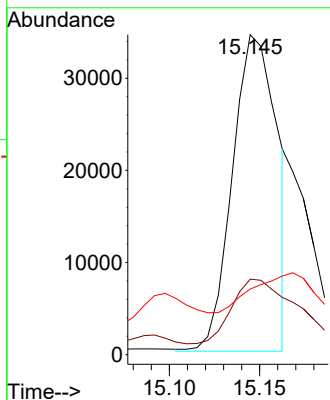
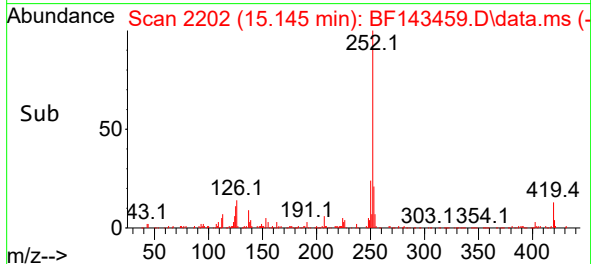
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425



Tgt Ion:252 Resp: 59170
Ion Ratio Lower Upper
252 100
253 23.6 17.1 25.7
125 20.5 7.5 11.3

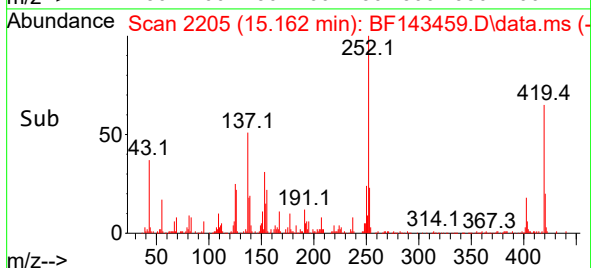
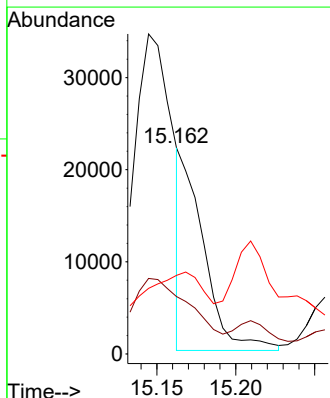
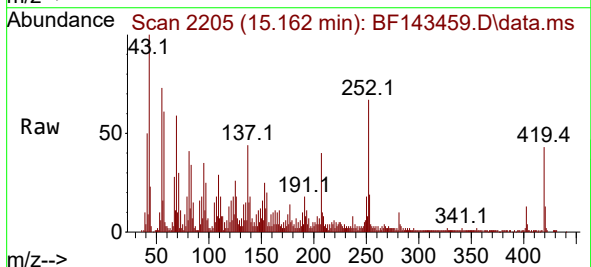
Manual Integrations
APPROVED

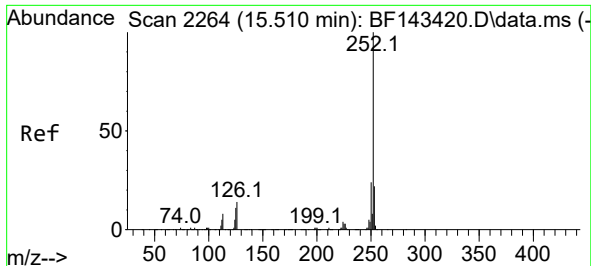
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#89
Benzo(k)fluoranthene
Concen: 2.390 ng m
RT: 15.162 min Scan# 2205
Delta R.T. -0.006 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

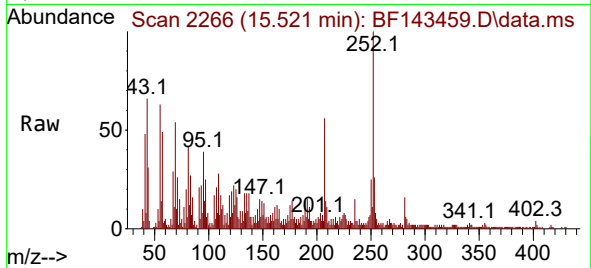
Tgt Ion:252 Resp: 21676
Ion Ratio Lower Upper
252 100
253 27.9 17.2 25.8#
125 38.1 7.4 11.2#





#90
Benzo(a)pyrene
Concen: 3.980 ng
RT: 15.521 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

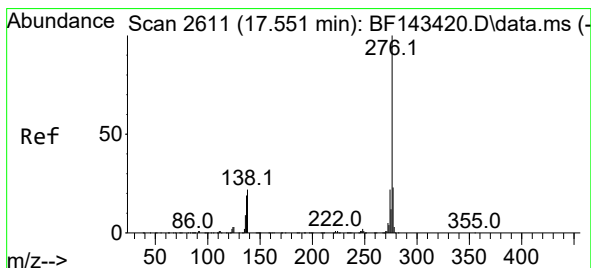
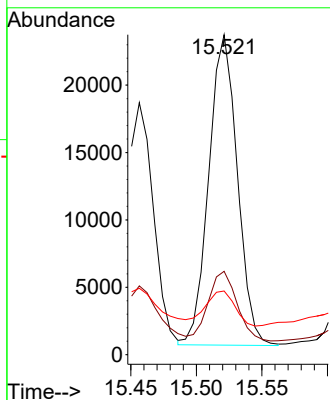
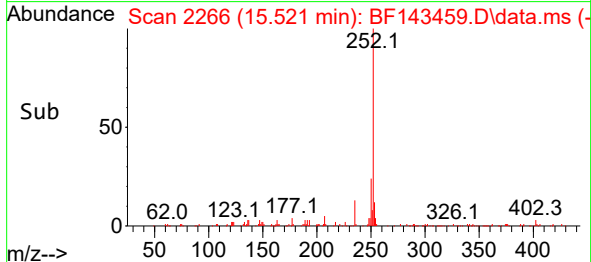
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP11-081425



Tgt Ion:252 Resp: 3486
Ion Ratio Lower Upper
252 100
253 26.1 17.4 26.2
125 19.9 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: 2.408 ng
RT: 17.580 min Scan# 2616
Delta R.T. 0.029 min
Lab File: BF143459.D
Acq: 19 Aug 2025 16:24

Tgt Ion:276 Resp: 24858
Ion Ratio Lower Upper
276 100
277 26.2 18.7 28.1
138 31.5 17.5 26.3

