

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
 Data File : BF143905.D
 Acq On : 08 Oct 2025 20:03
 Operator : RC/JU
 Sample : Q3307-19 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-33(0-0.5)

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025

Quant Time: Oct 09 01:49:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	115284	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	431169	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	224689	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	351843	20.000	ng	0.00
76) Chrysene-d12	14.057	240	301832	20.000	ng	-0.01
86) Perylene-d12	15.539	264	246493	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	57364	7.902	ng	-0.01
7) Phenol-d6	6.493	99	66557	7.692	ng	-0.02
23) Nitrobenzene-d5	7.440	82	31926	4.499	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	10867	4.856	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	78386	5.536	ng	-0.01
79) Terphenyl-d14	12.998	244	74622	4.225	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	150253	8.809	ng	98
72) Anthracene	11.486	178	37033	2.149	ng	99
75) Fluoranthene	12.627	202	202185	11.475	ng	97
78) Pyrene	12.857	202	202217	8.036	ng	98
81) Benzo(a)anthracene	14.045	228	109799	5.559	ng	98
83) Chrysene	14.080	228	100569	5.501	ng	97
88) Benzo(b)fluoranthene	15.104	252	94529m	6.676	ng	
89) Benzo(k)fluoranthene	15.121	252	27237m	2.079	ng	
90) Benzo(a)pyrene	15.474	252	63052	5.136	ng	# 92
92) Benzo(g,h,i)perylene	17.474	276	28453	2.342	ng	98

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

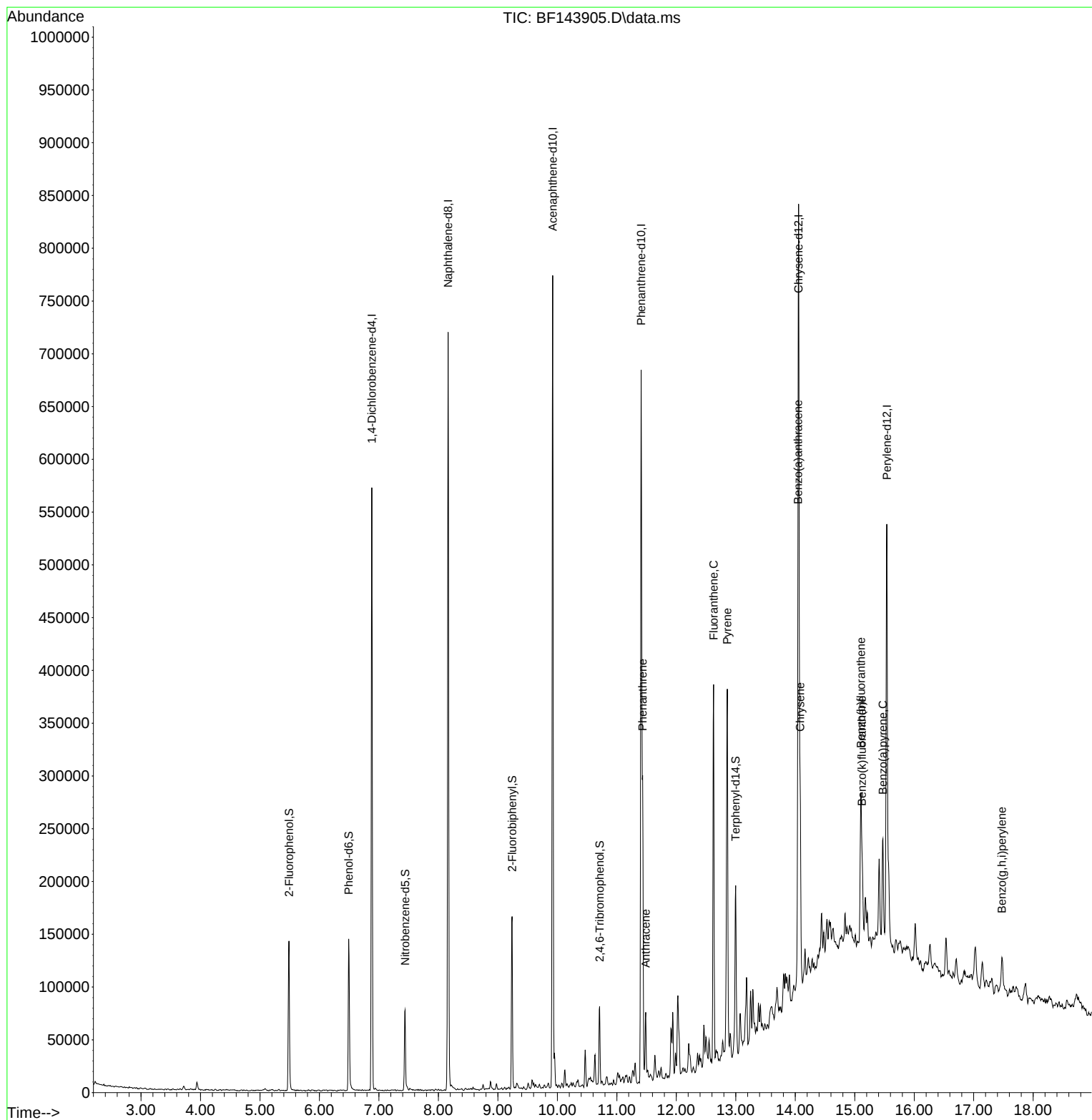
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
Data File : BF143905.D
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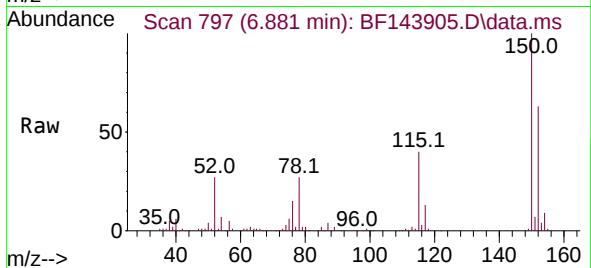
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

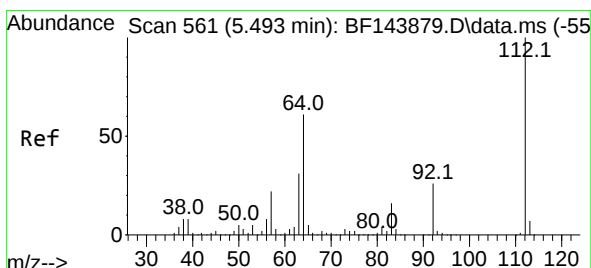
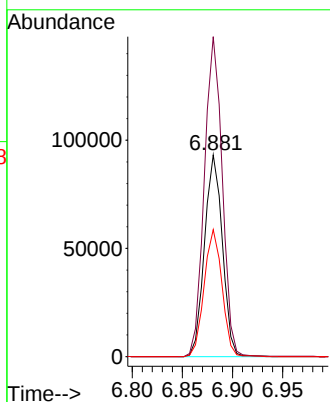
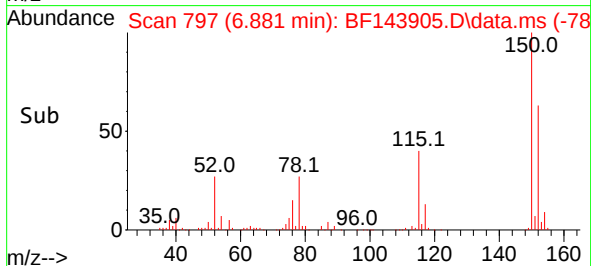
Instrument :
BNA_F
ClientSampleId :
S-33(0-0.5)



Tgt Ion:152 Resp: 115284
Ion Ratio Lower Upper
152 100
150 158.6 124.4 186.6
115 63.0 48.1 72.1

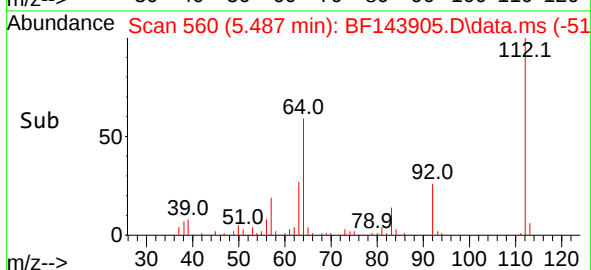
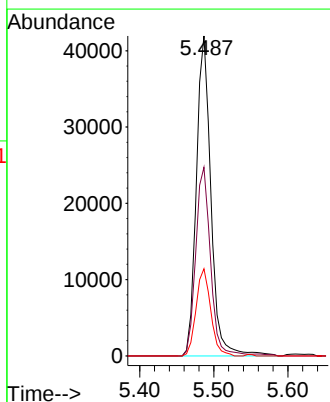
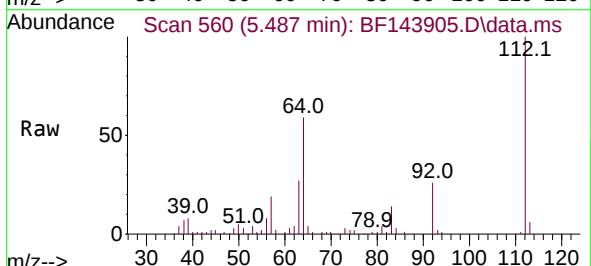
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#5
2-Fluorophenol
Concen: 7.902 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.012 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

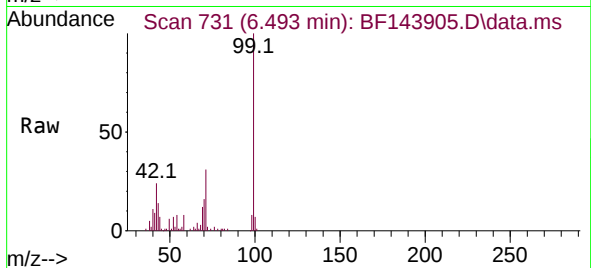
Tgt Ion:112 Resp: 57364
Ion Ratio Lower Upper
112 100
64 58.9 49.1 73.7
63 27.2 24.5 36.7





#7
Phenol-d6
Concen: 7.692 ng
RT: 6.493 min Scan# 731
Delta R.T. -0.023 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

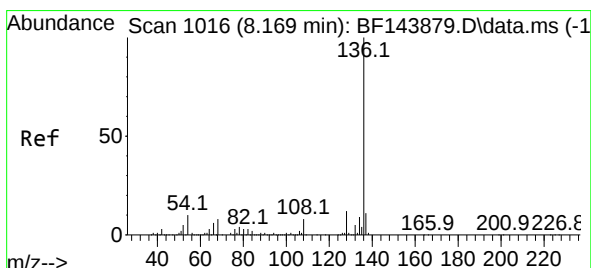
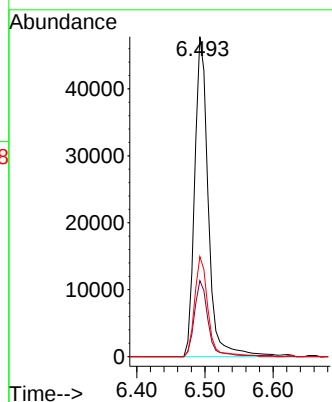
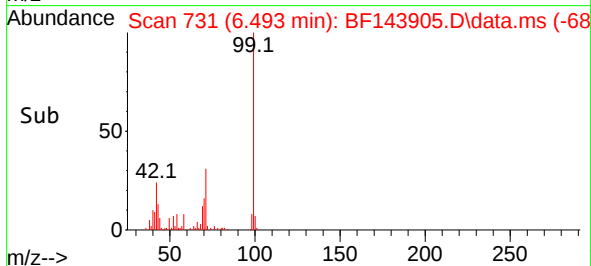
Instrument :
BNA_F
ClientSampleId :
S-33(0-0.5)



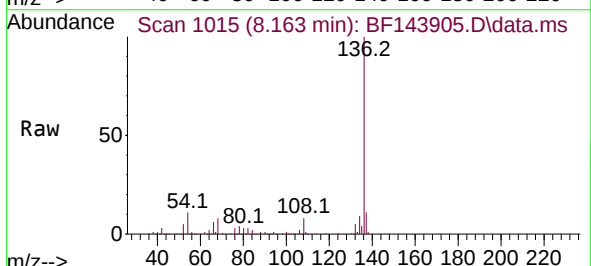
Tgt Ion: 99 Resp: 6655
Ion Ratio Lower Upper
99 100
42 23.7 21.0 31.4
71 31.3 27.8 41.8

Manual Integrations
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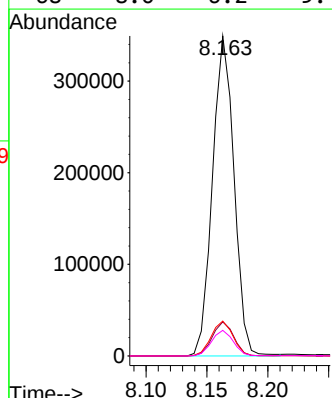
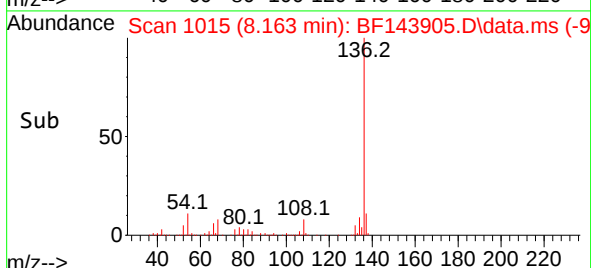
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

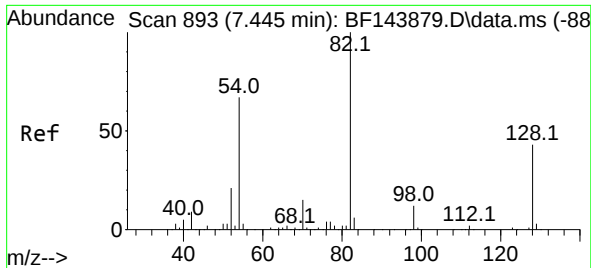


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03



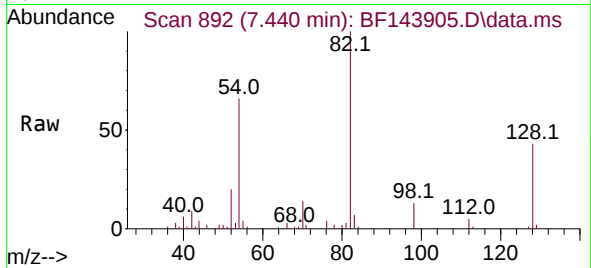
Tgt Ion:136 Resp: 431169
Ion Ratio Lower Upper
136 100
137 10.6 8.5 12.7
54 10.9 8.2 12.4
68 8.0 6.2 9.4





#23
 Nitrobenzene-d5
 Concen: 4.499 ng
 RT: 7.440 min Scan# 893
 Delta R.T. -0.017 min
 Lab File: BF143905.D
 Acq: 08 Oct 2025 20:03

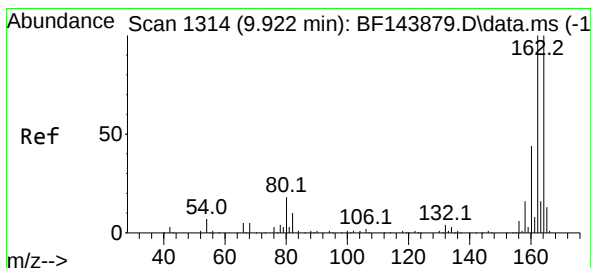
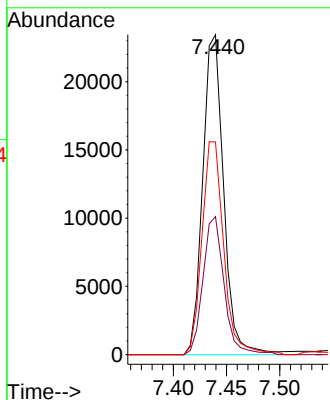
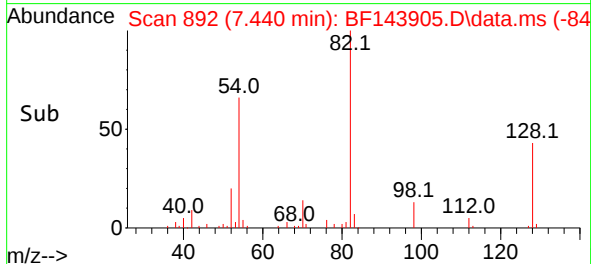
Instrument :
 BNA_F
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 S-33(0-0.5)



Tgt Ion: 82 Resp: 31926
 Ion Ratio Lower Upper
 82 100
 128 43.1 34.0 51.0
 54 66.5 53.2 79.8

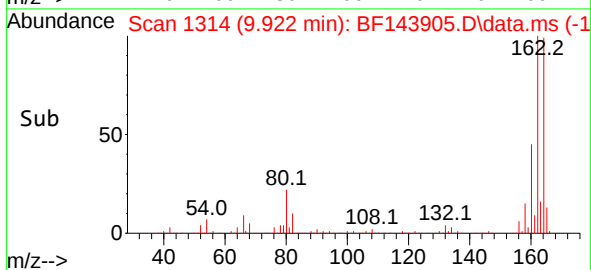
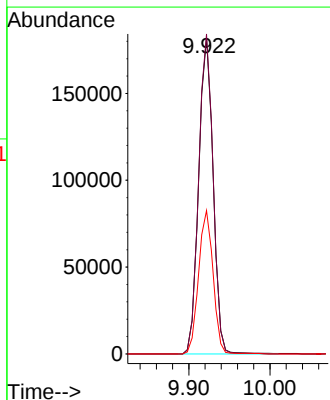
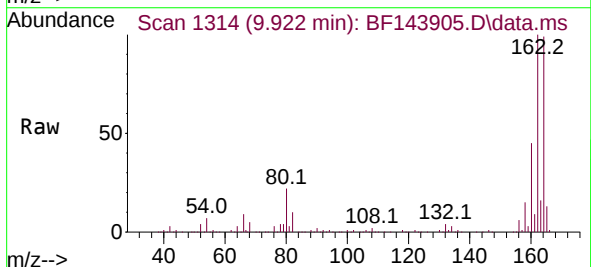
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.922 min Scan# 1314
 Delta R.T. -0.005 min
 Lab File: BF143905.D
 Acq: 08 Oct 2025 20:03

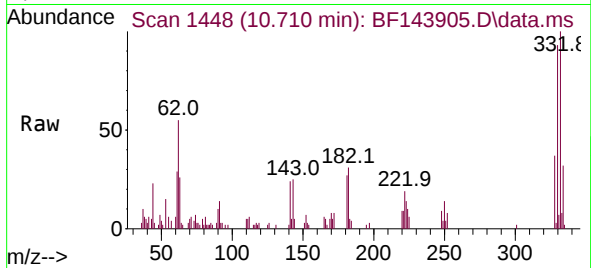
Tgt Ion:164 Resp: 224689
 Ion Ratio Lower Upper
 164 100
 162 101.2 80.2 120.2
 160 45.3 35.4 53.0





#42
 2,4,6-Tribromophenol
 Concen: 4.856 ng
 RT: 10.710 min Scan# 1449
 Delta R.T. -0.012 min
 Lab File: BF143905.D
 Acq: 08 Oct 2025 20:03

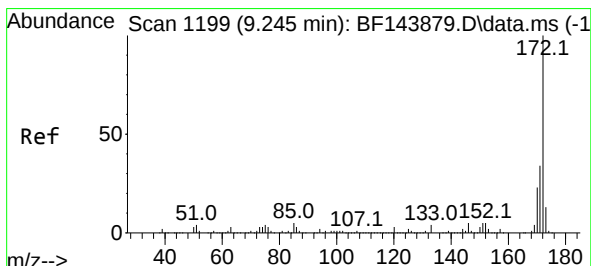
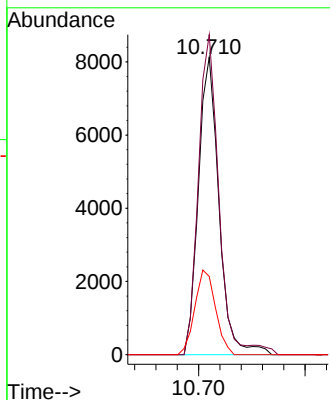
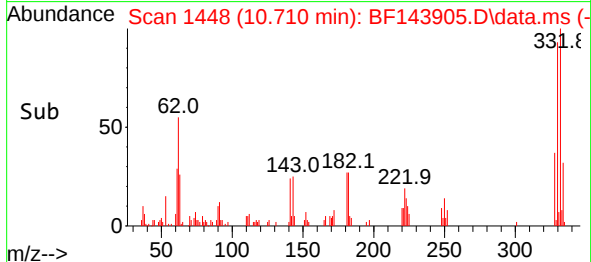
Instrument :
 BNA_F
 ClientSampleId :
 S-33(0-0.5)



Tgt Ion: 330 Resp: 10862
 Ion Ratio Lower Upper
 330 100
 332 106.9 76.9 115.3
 141 28.6 20.2 30.4

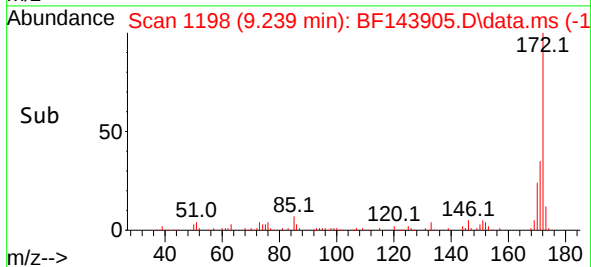
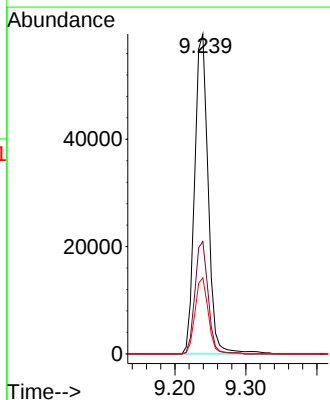
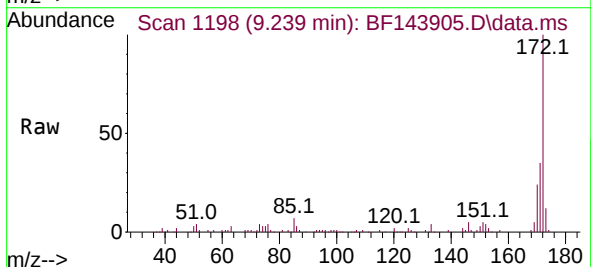
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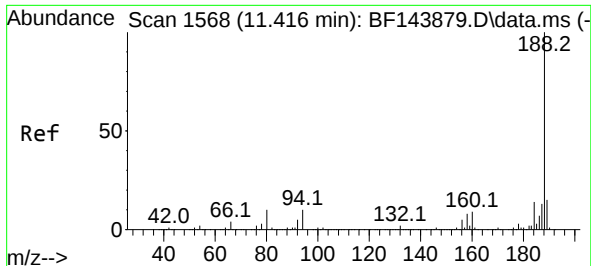
Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025



#45
 2-Fluorobiphenyl
 Concen: 5.536 ng
 RT: 9.239 min Scan# 1198
 Delta R.T. -0.012 min
 Lab File: BF143905.D
 Acq: 08 Oct 2025 20:03

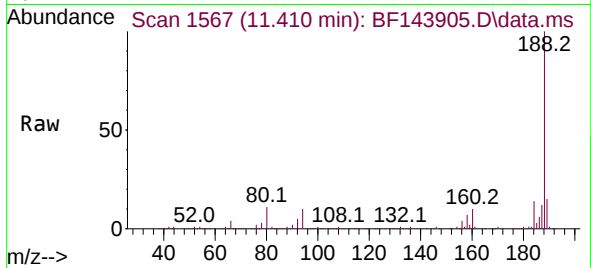
Tgt Ion: 172 Resp: 78386
 Ion Ratio Lower Upper
 172 100
 171 35.1 27.4 41.0
 170 23.8 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

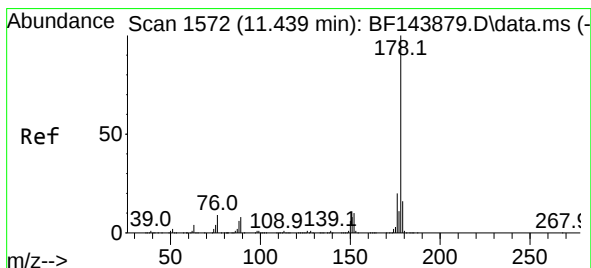
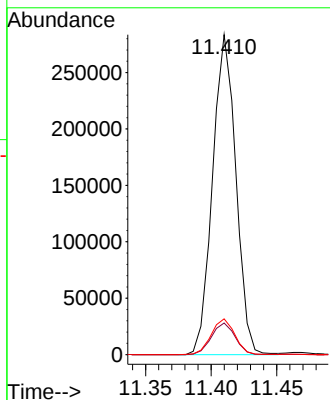
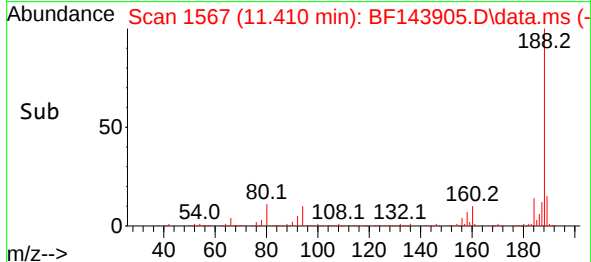
Instrument :
BNA_F
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S-33(0-0.5)



Tgt Ion:188 Resp: 351843
Ion Ratio Lower Upper
188 100
94 9.9 7.8 11.6
80 11.2 7.9 11.9

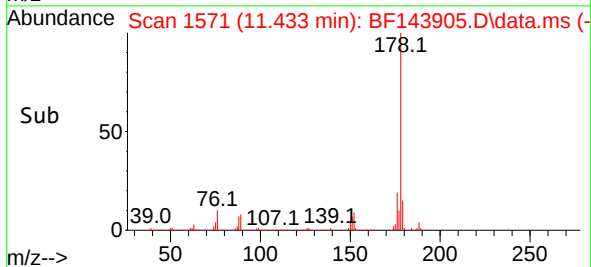
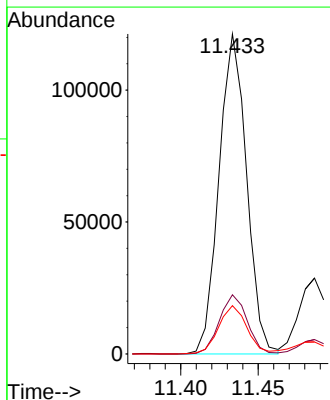
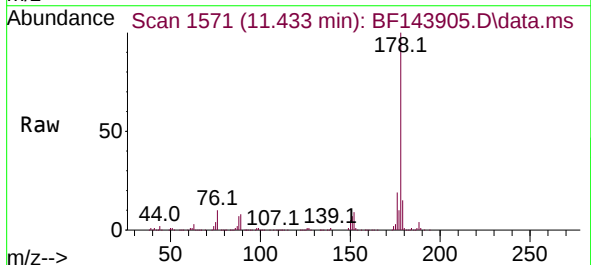
Manual Integrations
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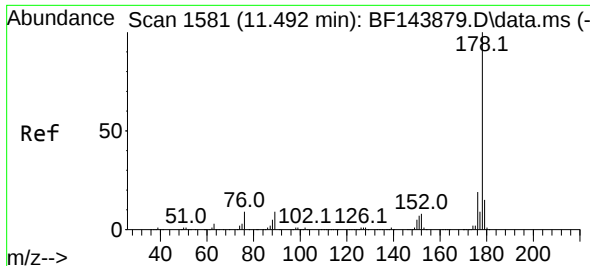
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#71
Phenanthrene
Concen: 8.809 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

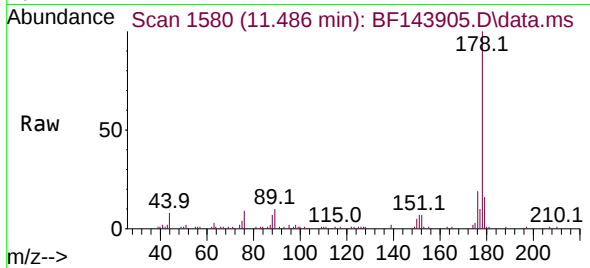
Tgt Ion:178 Resp: 150253
Ion Ratio Lower Upper
178 100
176 18.5 15.9 23.9
179 15.1 12.4 18.6





#72
 Anthracene
 Concen: 2.149 ng
 RT: 11.486 min Scan# 1581
 Delta R.T. -0.012 min
 Lab File: BF143905.D
 Acq: 08 Oct 2025 20:03

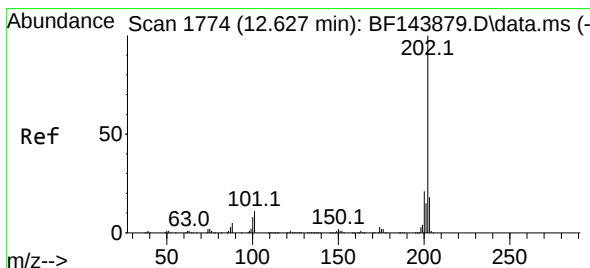
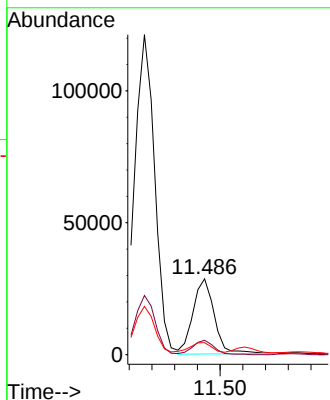
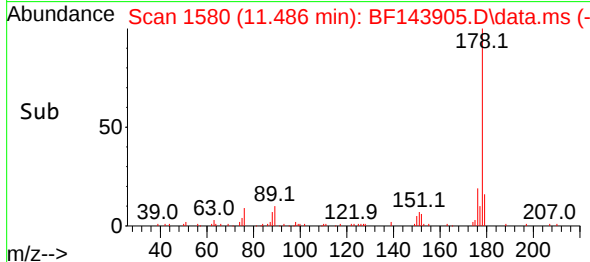
Instrument :
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 S-33(0-0.5)



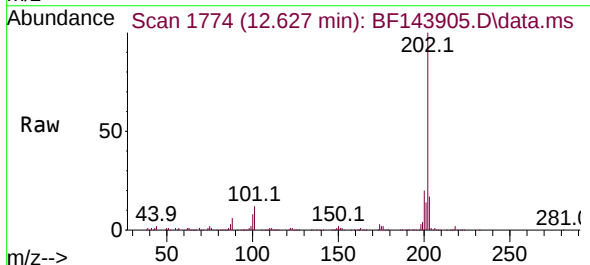
Tgt Ion:178 Resp: 37033
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.7 12.2 18.2

Manual Integrations
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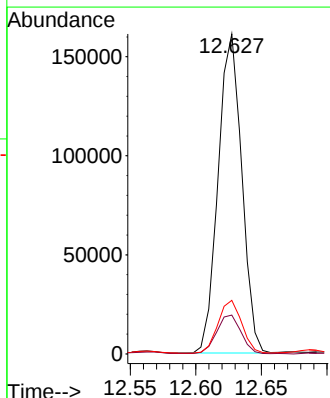
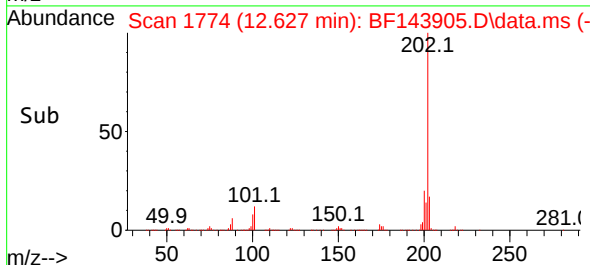
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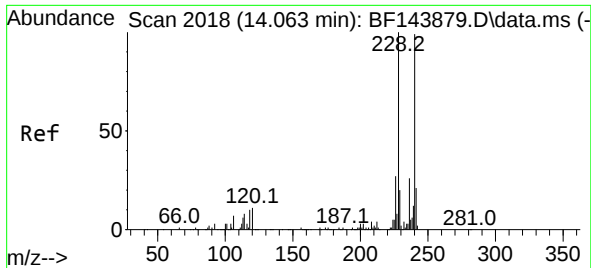


#75
 Fluoranthene
 Concen: 11.475 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: BF143905.D
 Acq: 08 Oct 2025 20:03



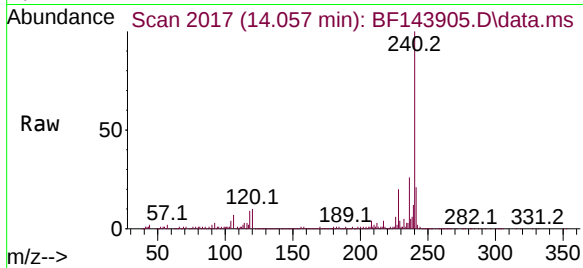
Tgt Ion:202 Resp: 202185
 Ion Ratio Lower Upper
 202 100
 101 12.1 0.0 30.7
 203 16.7 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2018
Delta R.T. -0.011 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

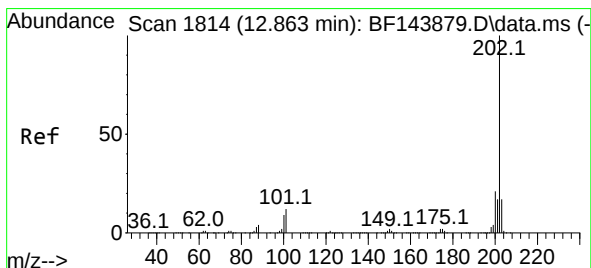
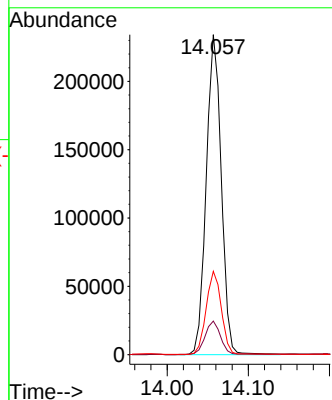
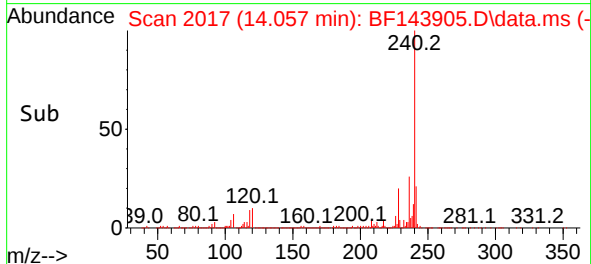
Instrument :
BNA_F
ClientSampleId :
S-33(0-0.5)



Tgt Ion:240 Resp: 301832
Ion Ratio Lower Upper
240 100
120 10.5 8.6 13.0
236 26.0 21.1 31.7

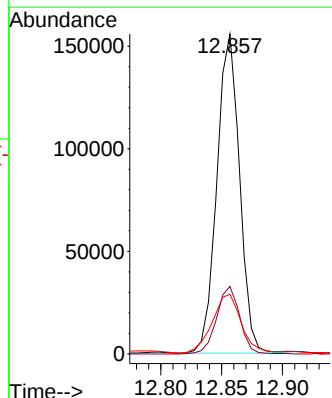
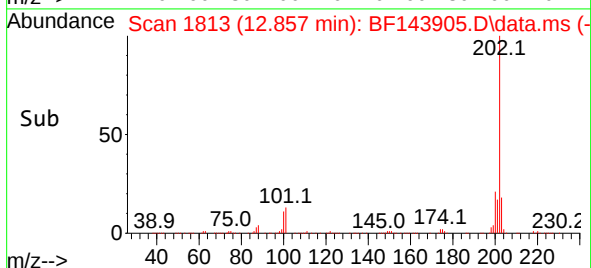
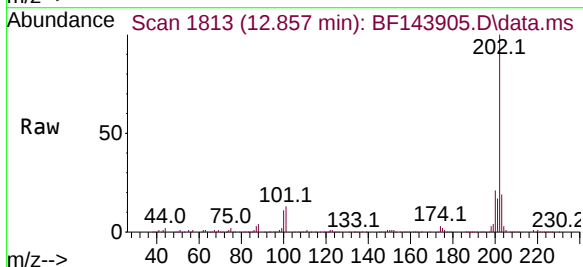
Manual Integrations
APPROVED

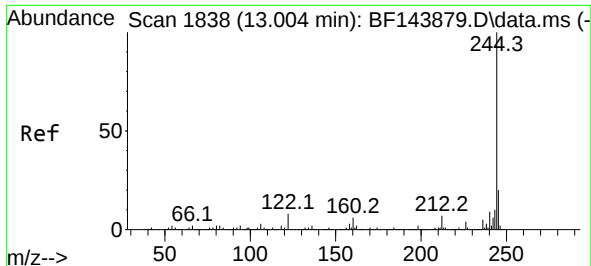
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#78
Pyrene
Concen: 8.036 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

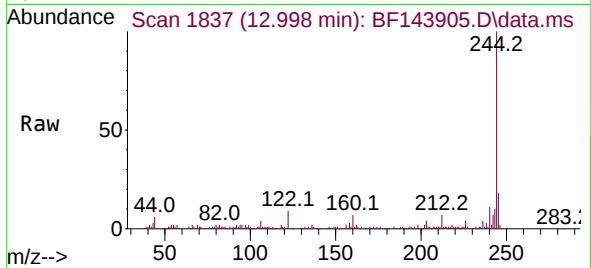
Tgt Ion:202 Resp: 202217
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.6
203 18.6 13.8 20.6





#79
Terphenyl-d14
Concen: 4.225 ng
RT: 12.998 min Scan# 1838
Delta R.T. -0.012 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

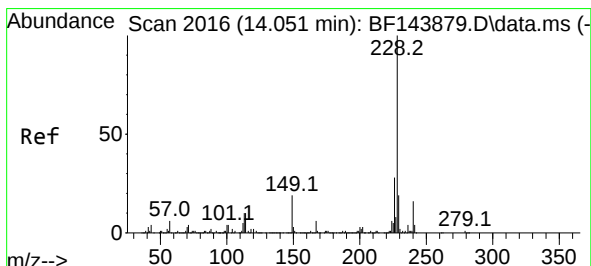
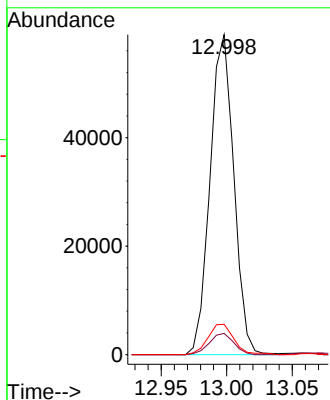
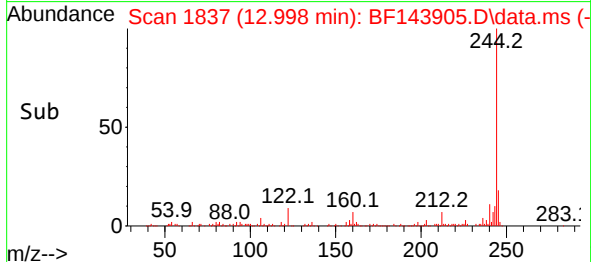
Instrument :
BNA_F
ClientSampleId :
S-33(0-0.5)



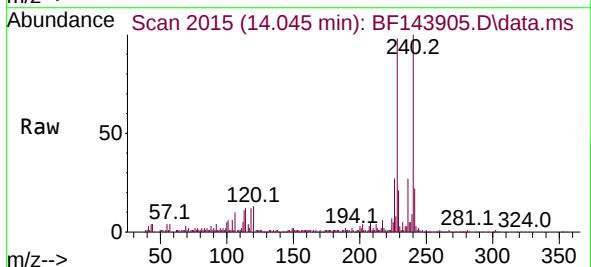
Tgt Ion:244 Resp: 74622
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.0
122 9.5 6.4 9.6

Manual Integrations
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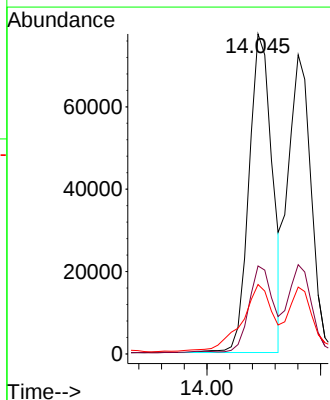
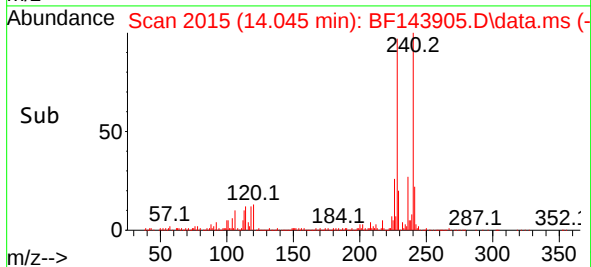
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

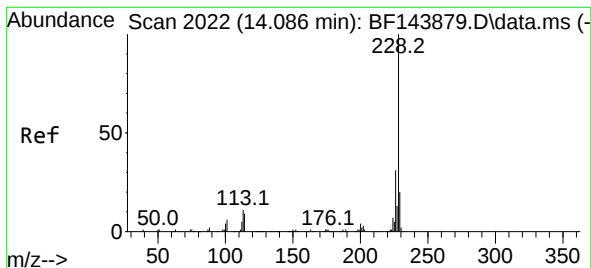


#81
Benzo(a)anthracene
Concen: 5.559 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03



Tgt Ion:228 Resp: 109799
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 21.7 15.6 23.4





#83

Chrysene

Concen: 5.501 ng

RT: 14.080 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF143905.D

Acq: 08 Oct 2025 20:03

Instrument :

BNA_F

ClientSampleId :

S-33(0-0.5)

Tgt Ion:228 Resp: 100569

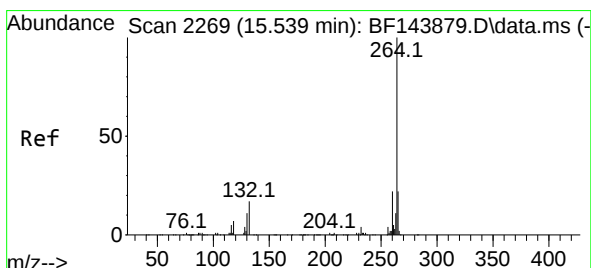
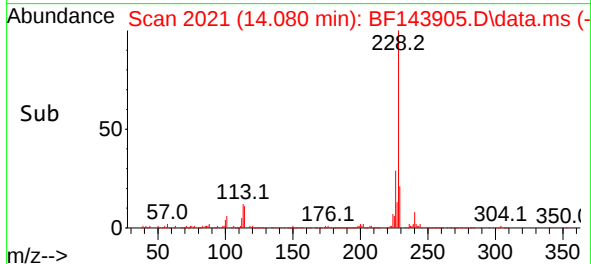
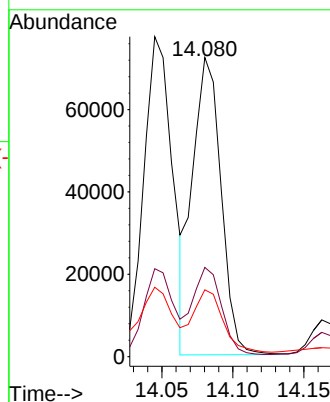
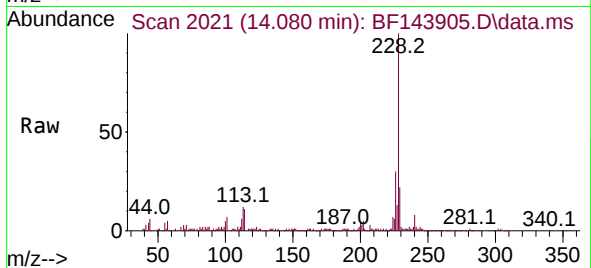
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.4	36.6
229	22.4	15.9	23.9

Manual Integrations

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Reviewed By :Rahul Chavli 10/09/2025

Supervised By :Jagrut Upadhyay 10/09/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

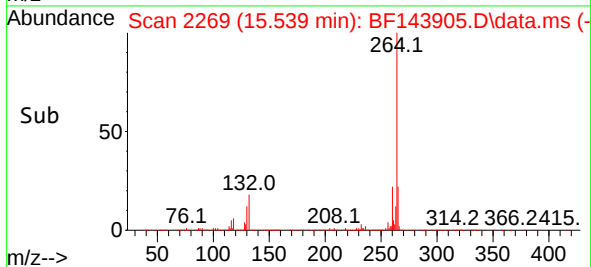
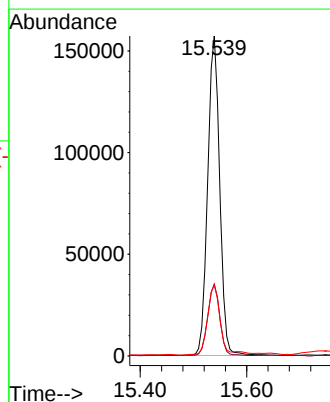
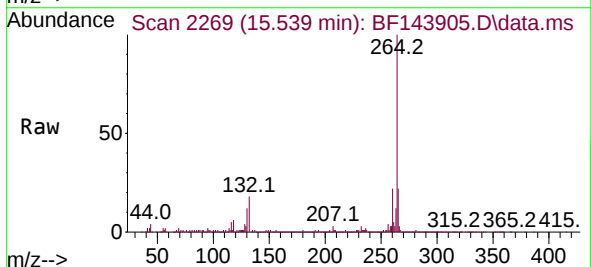
Delta R.T. -0.006 min

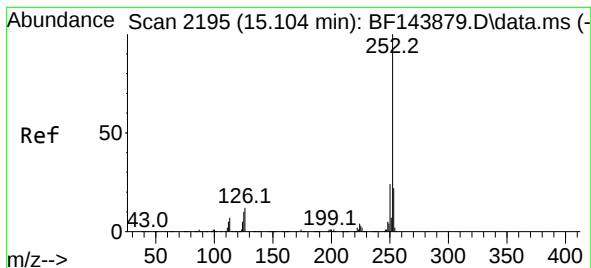
Lab File: BF143905.D

Acq: 08 Oct 2025 20:03

Tgt Ion:264 Resp: 246493

Ion	Ratio	Lower	Upper
264	100		
260	22.5	17.8	26.8
265	22.2	17.5	26.3





#88

Benzo(b)fluoranthene

Concen: 6.676 ng m

RT: 15.104 min Scan# 2195

Delta R.T. -0.012 min

Lab File: BF143905.D

Acq: 08 Oct 2025 20:03

Instrument :

BNA_F

ClientSampleId :

S-33(0-0.5)

Tgt Ion:252 Resp: 94529

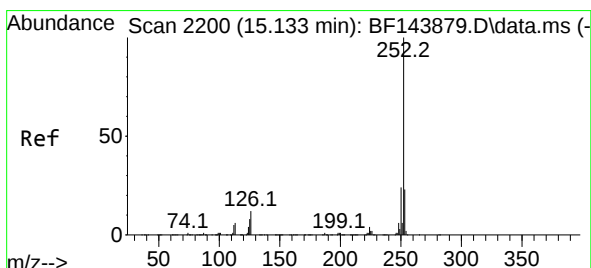
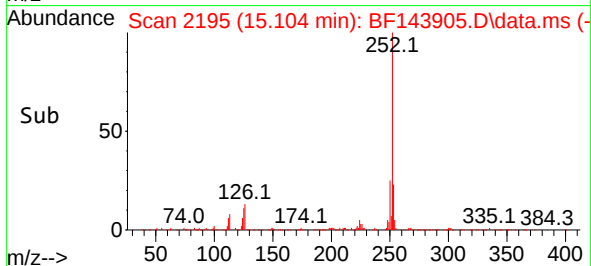
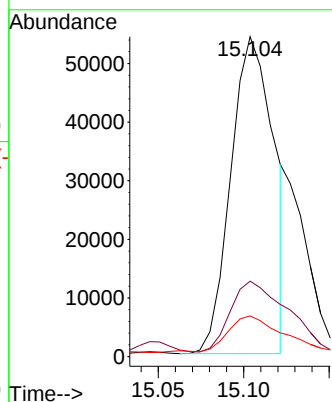
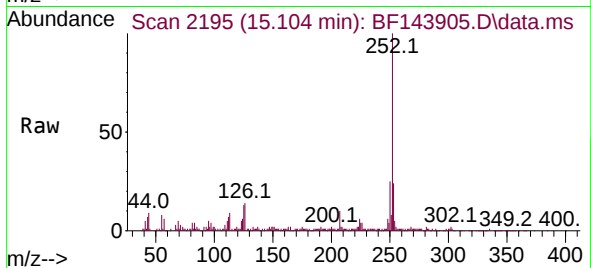
Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.2
125	12.7	7.8	11.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/09/2025

Supervised By :Jagrut Upadhyay 10/09/2025



#89

Benzo(k)fluoranthene

Concen: 2.079 ng m

RT: 15.121 min Scan# 2198

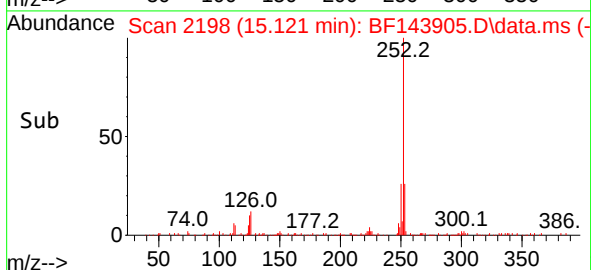
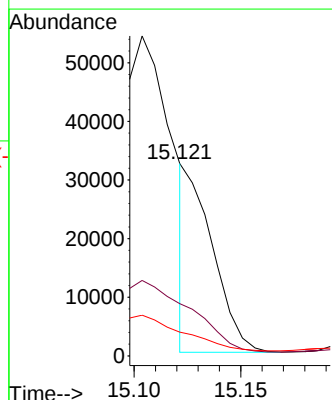
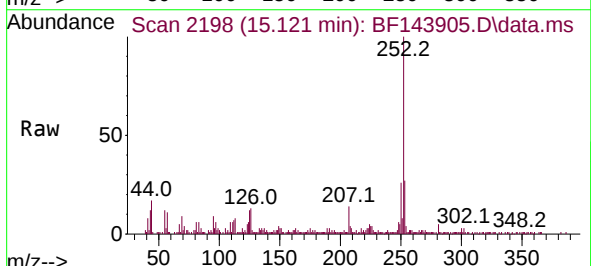
Delta R.T. -0.023 min

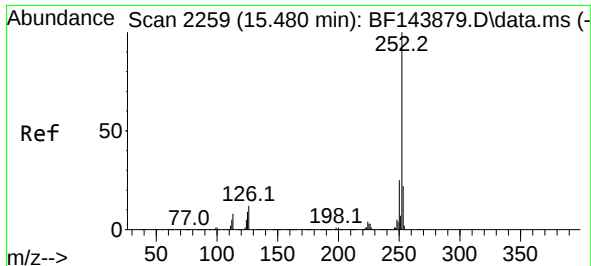
Lab File: BF143905.D

Acq: 08 Oct 2025 20:03

Tgt Ion:252 Resp: 27237

Ion	Ratio	Lower	Upper
252	100		
253	27.2	17.8	26.8#
125	12.3	7.4	11.2#





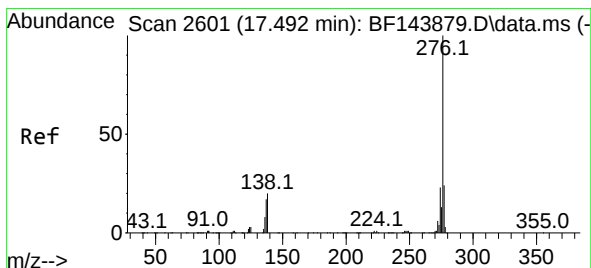
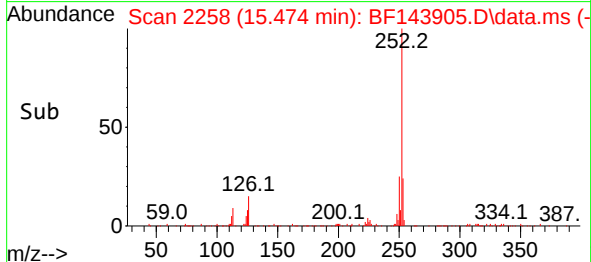
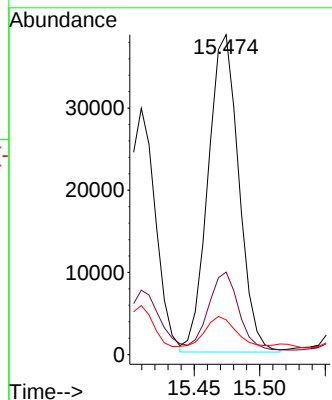
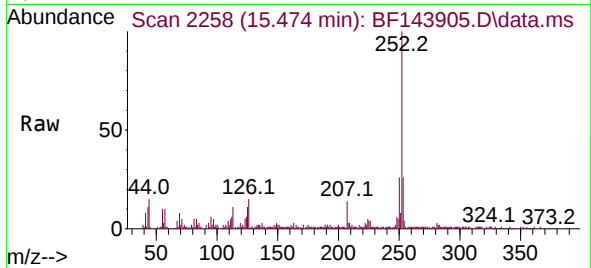
#90
Benzo(a)pyrene
Concen: 5.136 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

Instrument :
BNA_F
ClientSampleId :
S-33(0-0.5)

Tgt Ion:252 Resp: 63052
Ion Ratio Lower Upper
252 100
253 25.8 17.3 25.9
125 10.9 7.0 10.4

Manual Integrations
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Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#92
Benzo(g,h,i)perylene
Concen: 2.342 ng
RT: 17.474 min Scan# 2598
Delta R.T. -0.041 min
Lab File: BF143905.D
Acq: 08 Oct 2025 20:03

Tgt Ion:276 Resp: 28453
Ion Ratio Lower Upper
276 100
277 24.9 19.0 28.6
138 19.8 16.1 24.1

