

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
 Data File : BF144005.D
 Acq On : 20 Oct 2025 18:24
 Operator : RC/JU
 Sample : Q3382-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CENTRAL-AVE-TP

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

Quant Time: Oct 20 18:44:01 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	6.880	152	89446	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	337811	20.000	ng	0.00
39) Acenaphthene-d10	9.921	164	167816	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	263165	20.000	ng	0.00
76) Chrysene-d12	14.057	240	214459	20.000	ng	-0.01
86) Perylene-d12	15.545	264	279566	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	549134	97.491	ng	0.00
7) Phenol-d6	6.504	99	631211	94.016	ng	-0.01
23) Nitrobenzene-d5	7.439	82	383151	68.909	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	136518	81.675	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	661722	62.567	ng	-0.01
79) Terphenyl-d14	12.998	244	594016	47.339	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	128814	10.096	ng	98
72) Anthracene	11.486	178	34053	2.642	ng	98
75) Fluoranthene	12.627	202	295188	22.399	ng	99
78) Pyrene	12.857	202	284012	15.885	ng	99
81) Benzo(a)anthracene	14.045	228	140220m	9.991	ng	
83) Chrysene	14.080	228	129212	9.948	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	81512	4.758	ng	97
88) Benzo(b)fluoranthene	15.109	252	165076m	10.279	ng	
89) Benzo(k)fluoranthene	15.121	252	68444m	4.606	ng	
90) Benzo(a)pyrene	15.474	252	143352	10.295	ng	# 94
92) Benzo(g,h,i)perylene	17.486	276	79540	5.773	ng	97

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

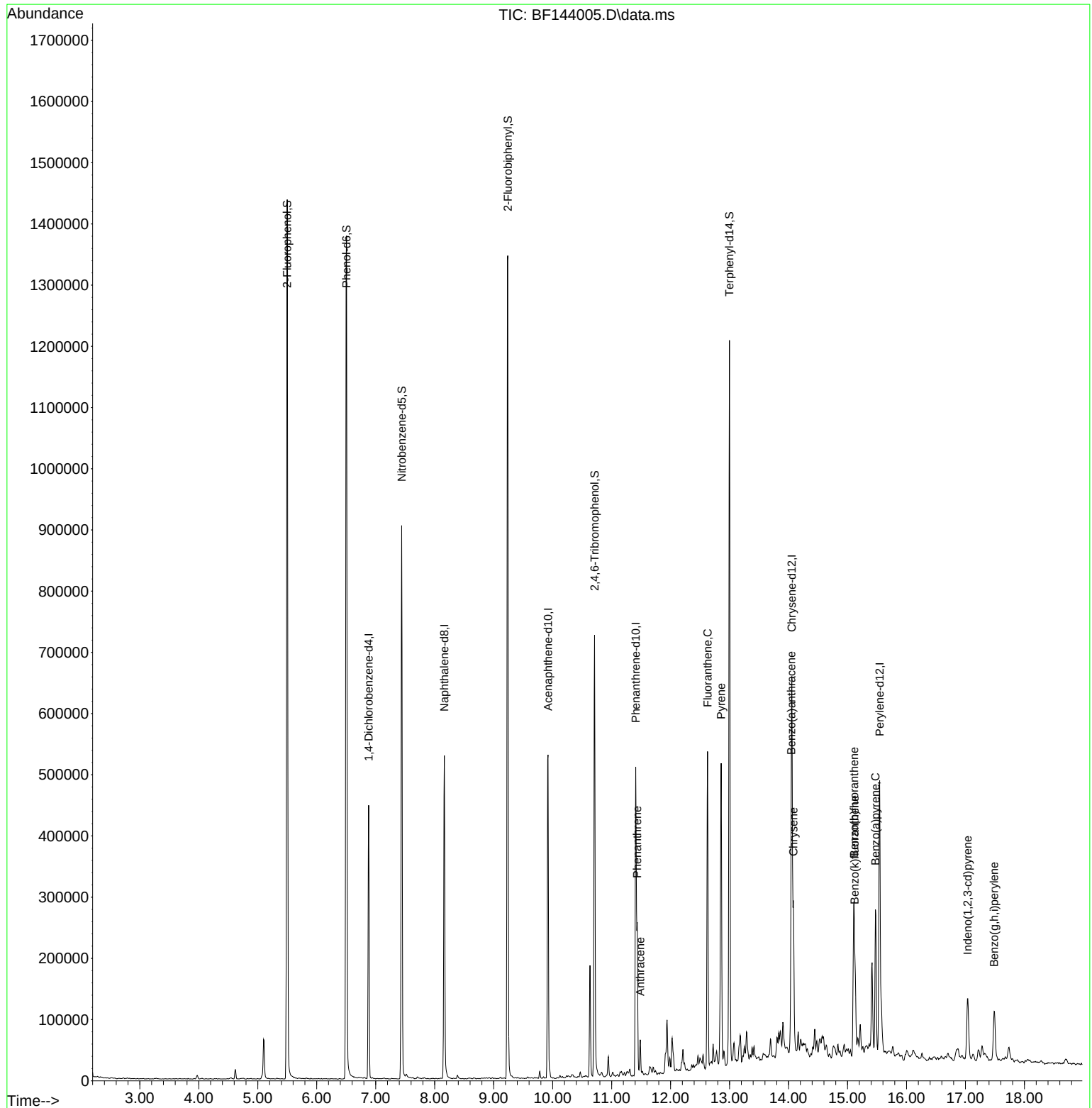
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
Data File : BF144005.D
Acq On : 20 Oct 2025 18:24
Operator : RC/JU
Sample : Q3382-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

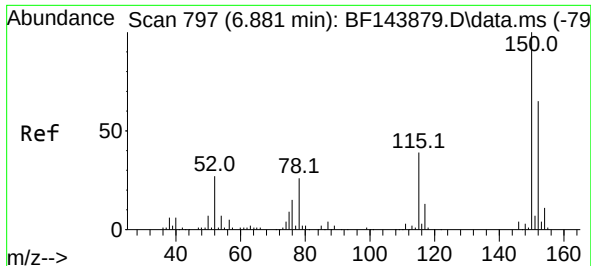
Instrument :
BNA_F
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Quant Time: Oct 20 18:44:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
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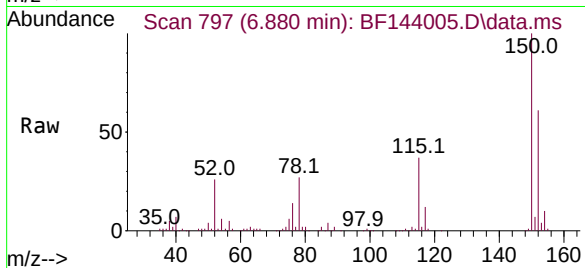
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.880 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

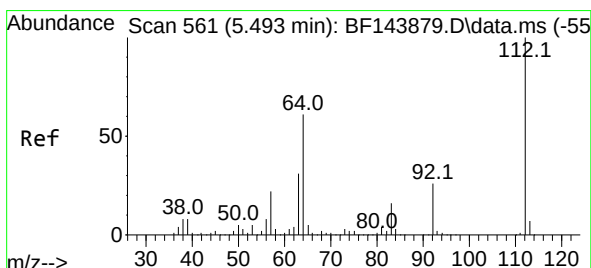
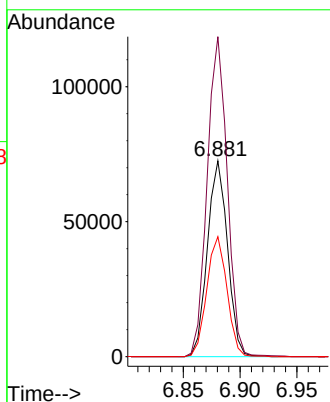
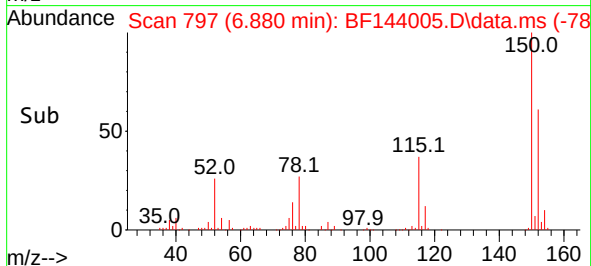
Instrument :
BNA_F
ClientSampleId :
CENTRAL-AVE-TP



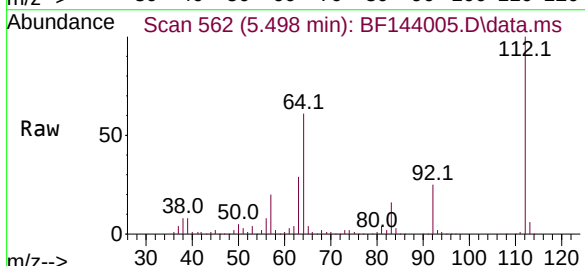
Tgt Ion:152 Resp: 89446
Ion Ratio Lower Upper
152 100
150 163.4 124.4 186.6
115 61.2 48.1 72.1

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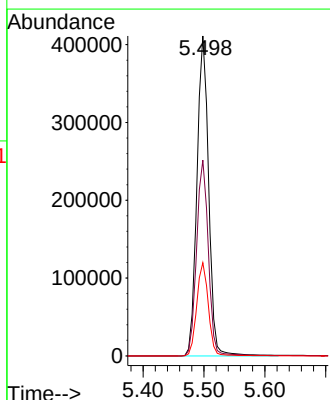
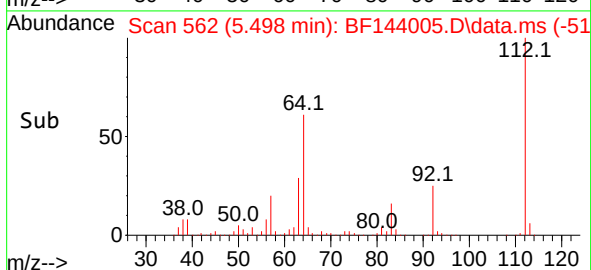
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

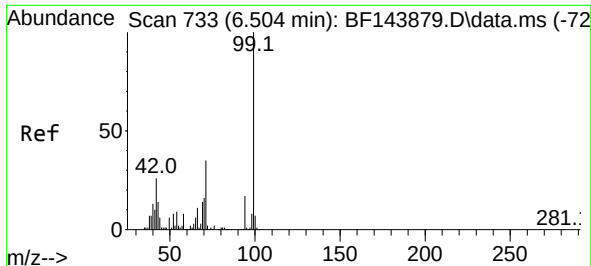


#5
2-Fluorophenol
Concen: 97.491 ng
RT: 5.498 min Scan# 562
Delta R.T. -0.000 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24



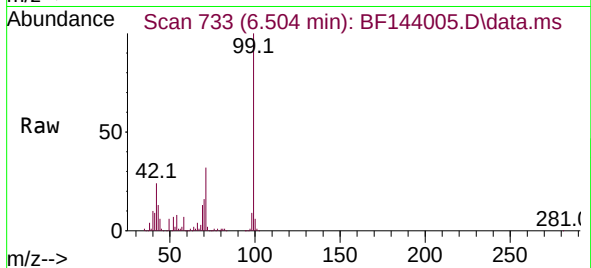
Tgt Ion:112 Resp: 549134
Ion Ratio Lower Upper
112 100
64 61.2 49.1 73.7
63 29.1 24.5 36.7





#7
Phenol-d6
Concen: 94.016 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

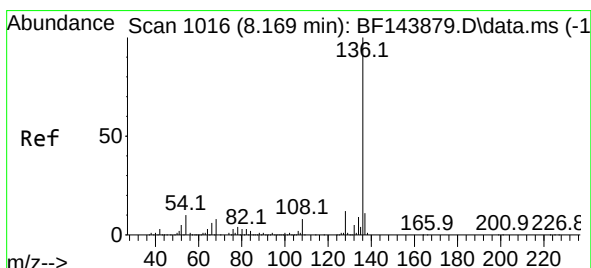
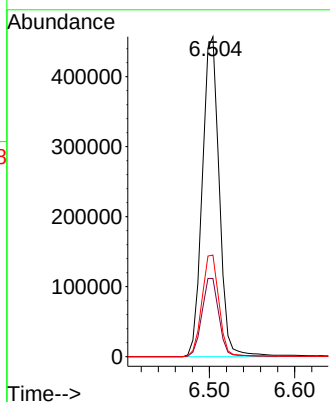
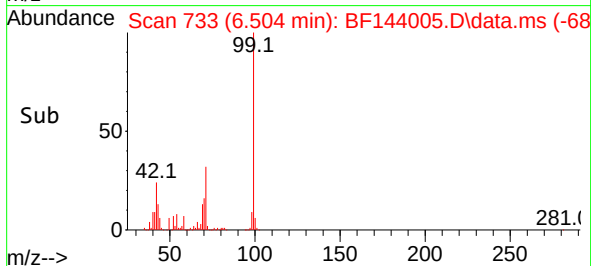
Instrument :
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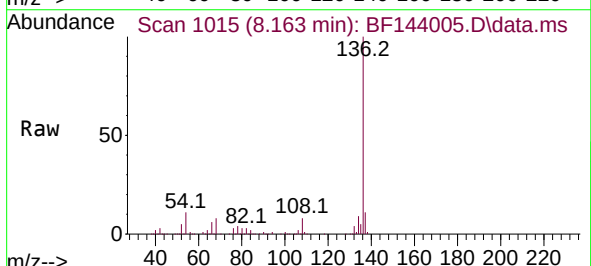
Tgt Ion: 99 Resp: 631211
Ion Ratio Lower Upper
99 100
42 24.4 21.0 31.4
71 31.7 27.8 41.8

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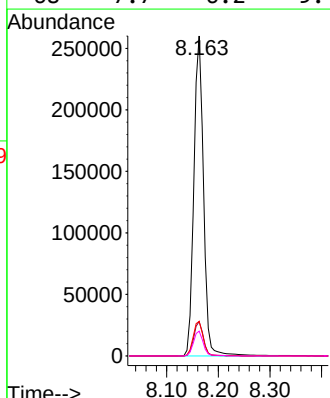
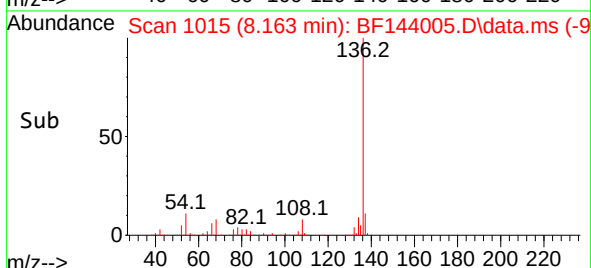
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

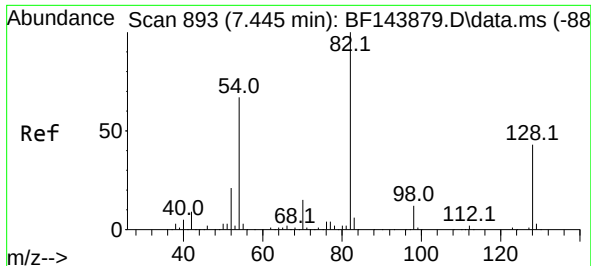


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24



Tgt Ion:136 Resp: 337811
Ion Ratio Lower Upper
136 100
137 10.7 8.5 12.7
54 10.8 8.2 12.4
68 7.7 6.2 9.4





#23

Nitrobenzene-d5

Concen: 68.909 ng

RT: 7.439 min Scan# 893

Delta R.T. -0.018 min

Lab File: BF144005.D

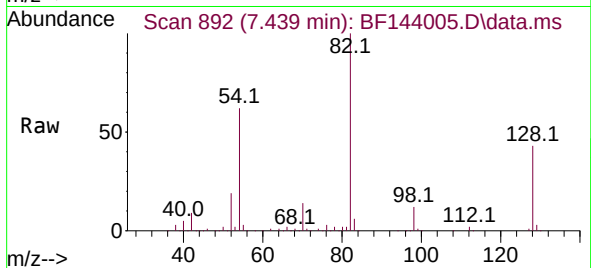
Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion: 82 Resp: 38315

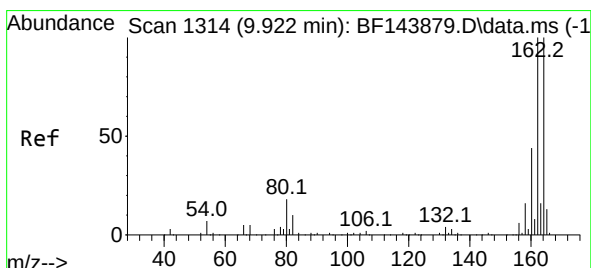
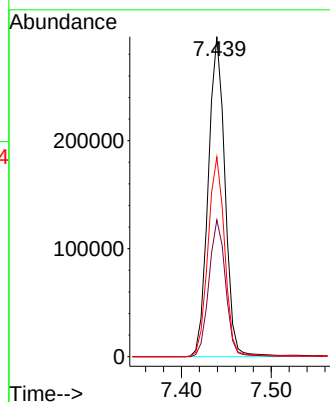
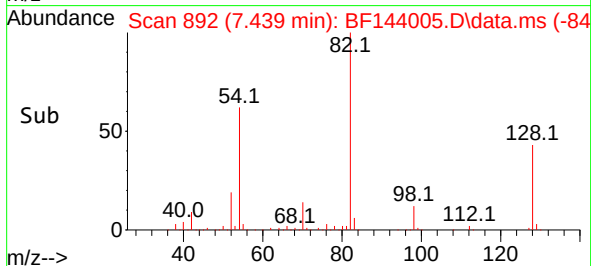
Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.0	51.0
54	62.4	53.2	79.8

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.921 min Scan# 1314

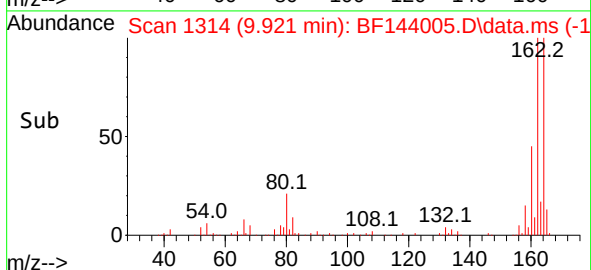
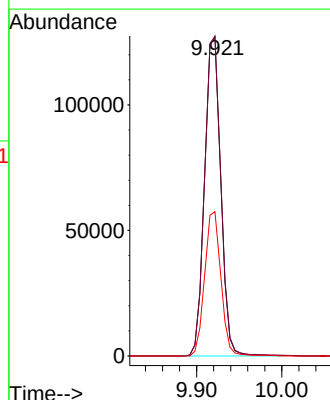
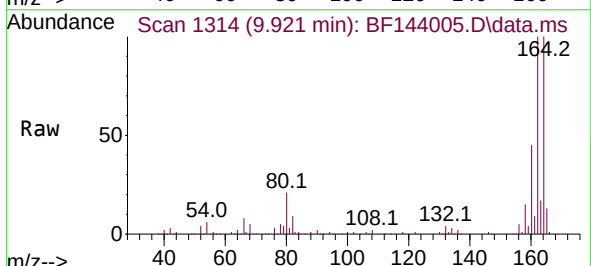
Delta R.T. -0.006 min

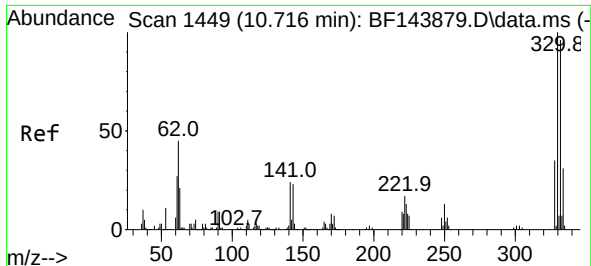
Lab File: BF144005.D

Acq: 20 Oct 2025 18:24

Tgt Ion:164 Resp: 167816

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.2
160	45.2	35.4	53.0





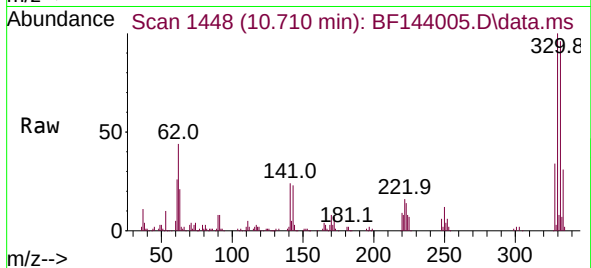
#42
2,4,6-Tribromophenol
Concen: 81.675 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

Instrument :

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CENTRAL-AVE-TP



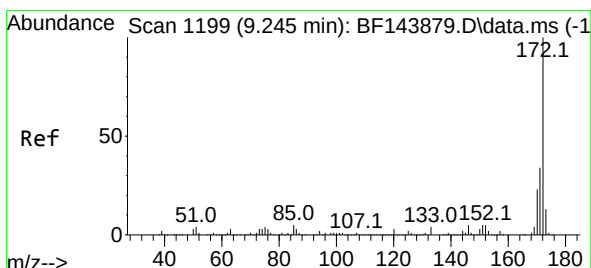
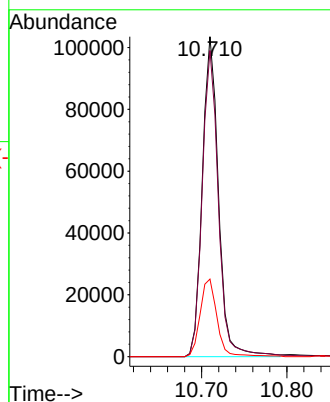
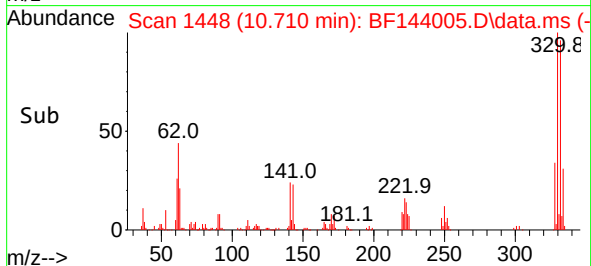
Tgt Ion:330 Resp: 136518
Ion Ratio Lower Upper
330 100
332 95.9 76.9 115.3
141 25.3 20.2 30.4

Manual Integrations

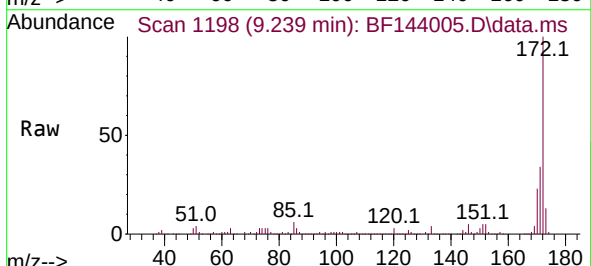
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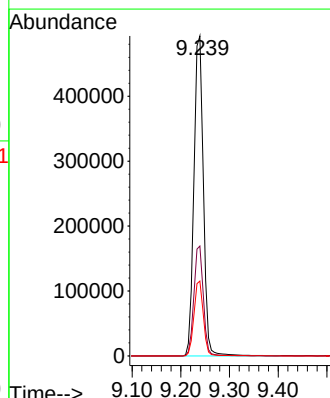
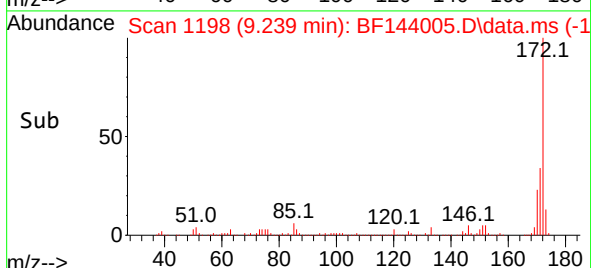
Supervised By :Jagrut Upadhyay 10/21/2025

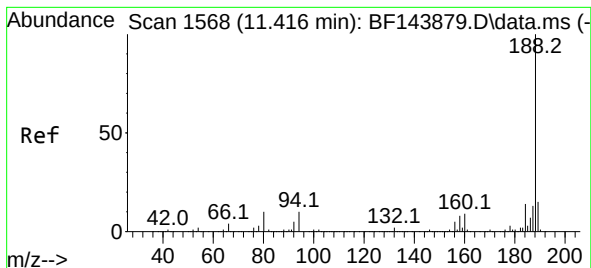


#45
2-Fluorobiphenyl
Concen: 62.567 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24



Tgt Ion:172 Resp: 661722
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.0
170 23.4 18.6 28.0





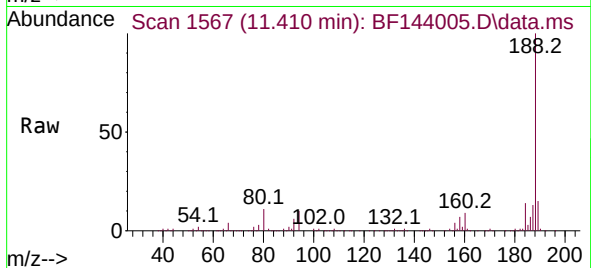
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

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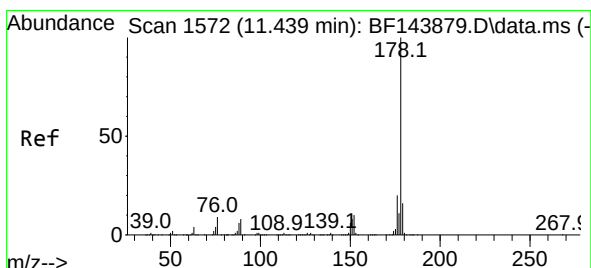
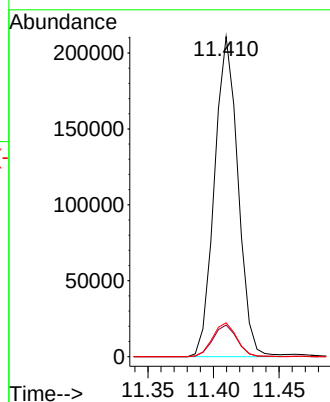
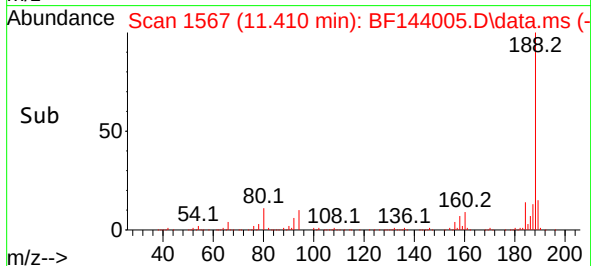
Tgt Ion:188 Resp: 263165
Ion Ratio Lower Upper
188 100
94 9.9 7.8 11.6
80 10.6 7.9 11.9

Manual Integrations

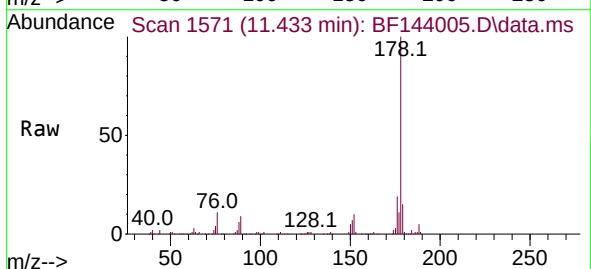
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Reviewed By :Rahul Chavli 10/21/2025

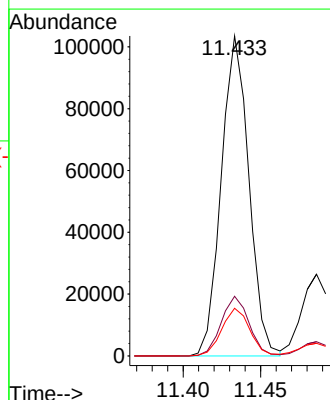
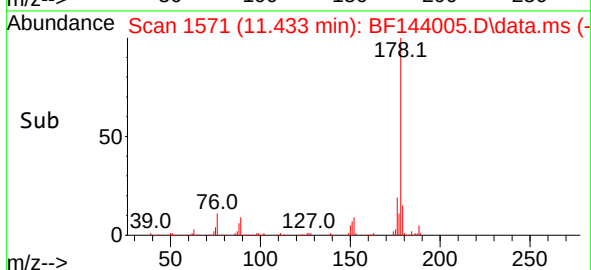
Supervised By :Jagrut Upadhyay 10/21/2025

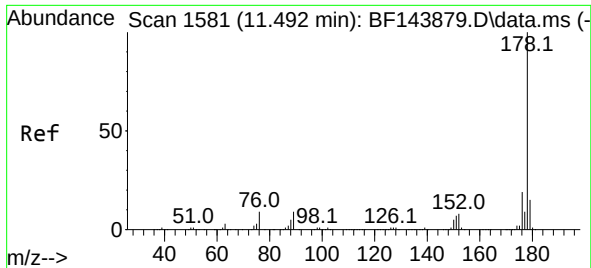


#71
Phenanthrene
Concen: 10.096 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24



Tgt Ion:178 Resp: 128814
Ion Ratio Lower Upper
178 100
176 18.6 15.9 23.9
179 14.9 12.4 18.6





#72
 Anthracene
 Concen: 2.642 ng
 RT: 11.486 min Scan# 1581
 Delta R.T. -0.012 min
 Lab File: BF144005.D
 Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

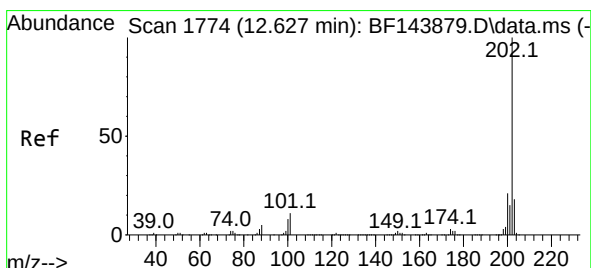
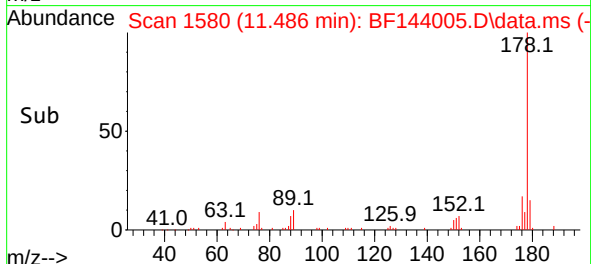
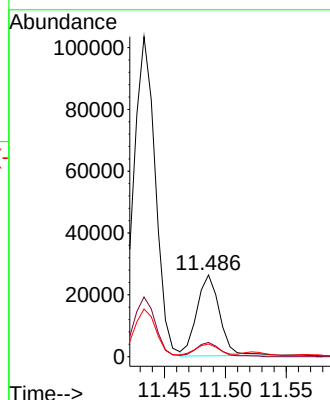
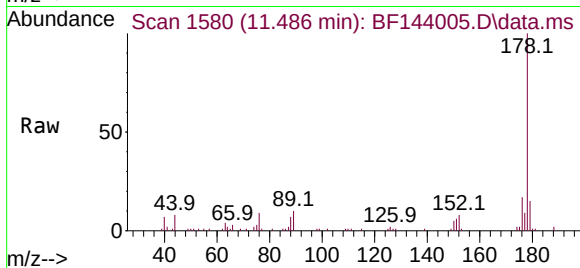
CENTRAL-AVE-TP

Tgt Ion:178 Resp: 34053
 Ion Ratio Lower Upper
 178 100
 176 17.3 14.9 22.3
 179 15.4 12.2 18.2

Manual Integrations

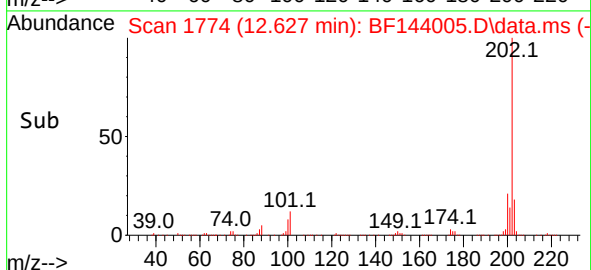
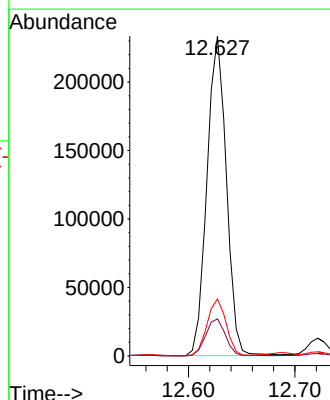
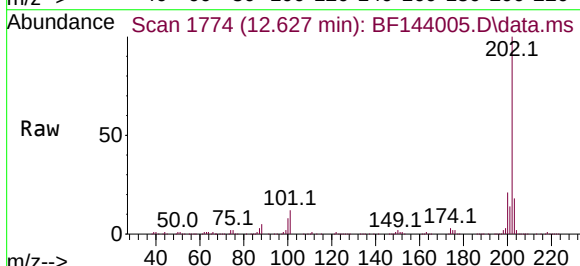
APPROVED

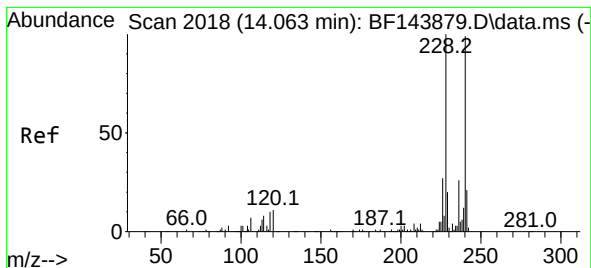
Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025



#75
 Fluoranthene
 Concen: 22.399 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: BF144005.D
 Acq: 20 Oct 2025 18:24

Tgt Ion:202 Resp: 295188
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 30.7
 203 17.8 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: BF144005.D

Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

CENTRAL-AVE-TP

Tgt Ion:240 Resp: 214459

Ion Ratio Lower Upper

240 100

120 11.4 8.6 13.0

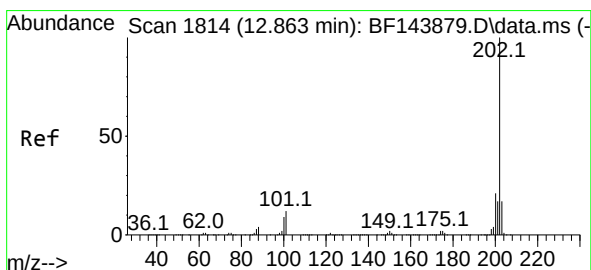
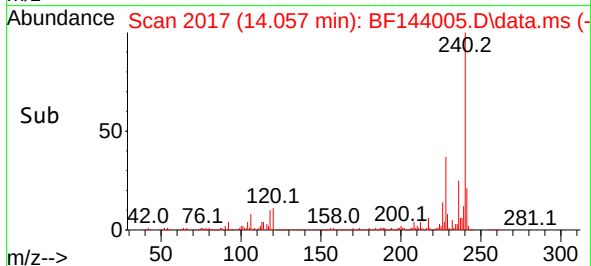
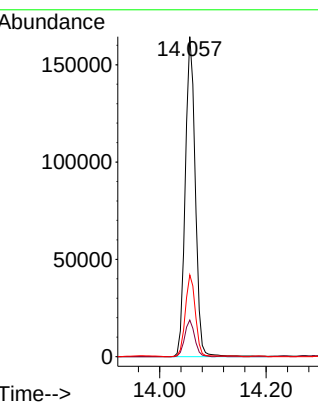
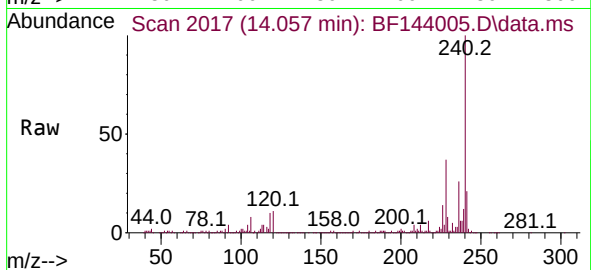
236 25.5 21.1 31.7

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#78

Pyrene

Concen: 15.885 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF144005.D

Acq: 20 Oct 2025 18:24

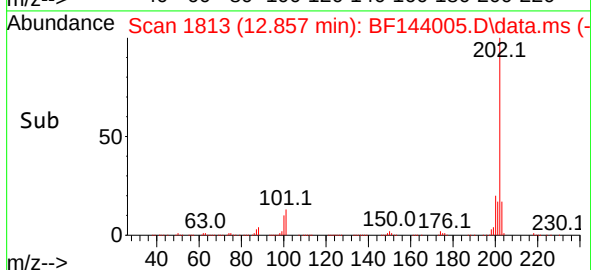
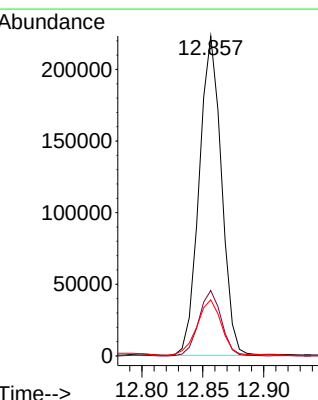
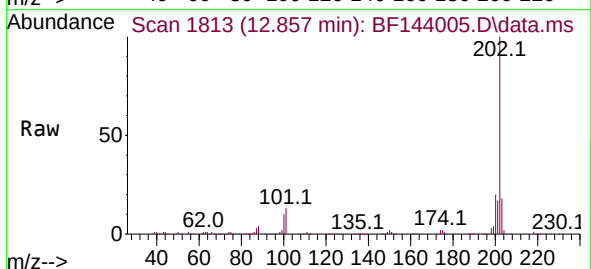
Tgt Ion:202 Resp: 284012

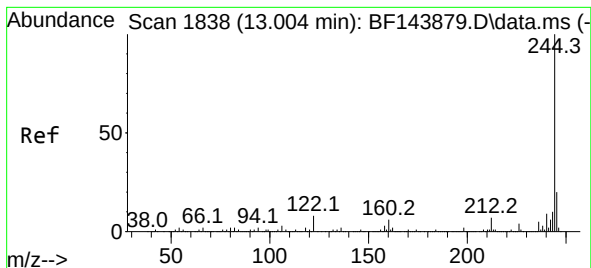
Ion Ratio Lower Upper

202 100

200 20.4 17.0 25.6

203 17.5 13.8 20.6





#79

Terphenyl-d14

Concen: 47.339 ng

RT: 12.998 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF144005.D

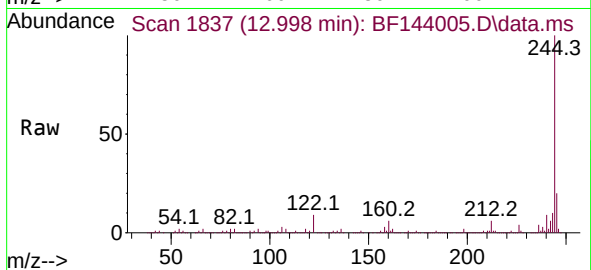
Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

CENTRAL-AVE-TP



Tgt Ion:244 Resp: 594016

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

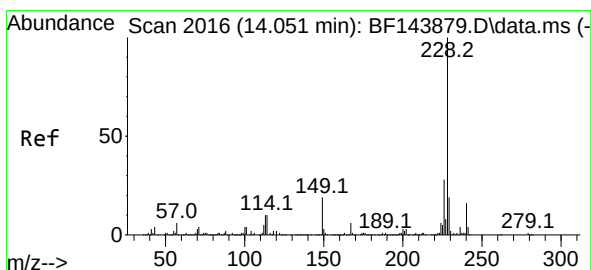
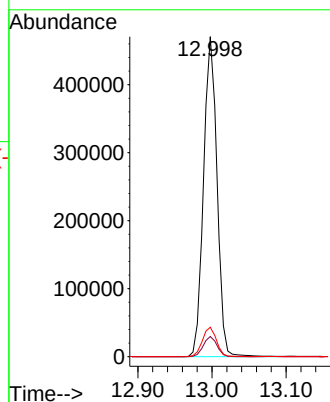
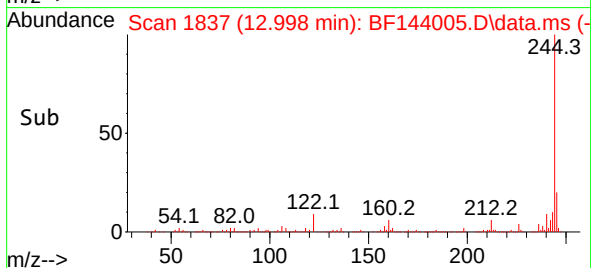
122 9.2 6.4 9.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#81

Benzo(a)anthracene

Concen: 9.991 ng m

RT: 14.045 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF144005.D

Acq: 20 Oct 2025 18:24

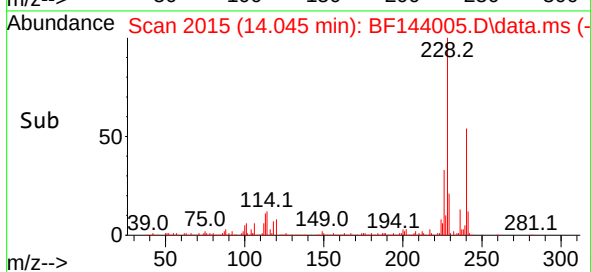
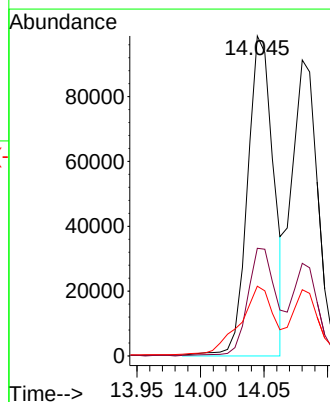
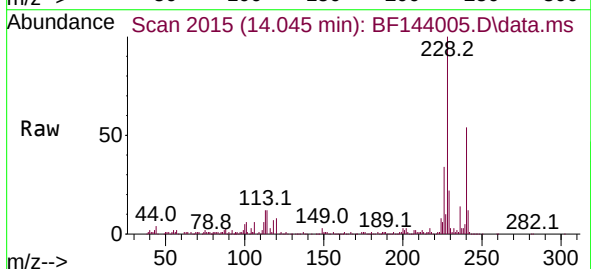
Tgt Ion:228 Resp: 140220

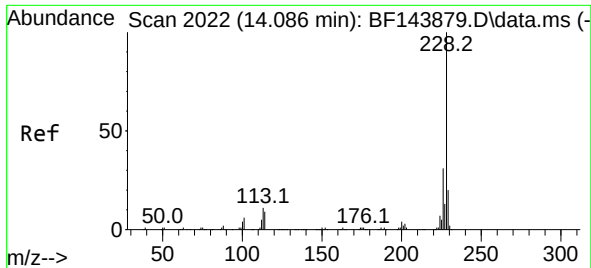
Ion Ratio Lower Upper

228 100

226 33.6 22.2 33.2#

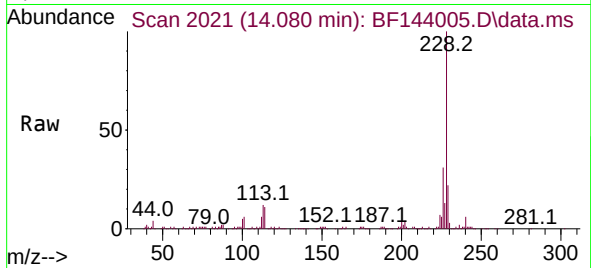
229 21.8 15.6 23.4





#83
Chrysene
Concen: 9.948 ng
RT: 14.080 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

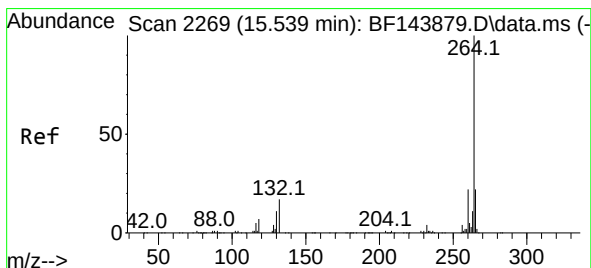
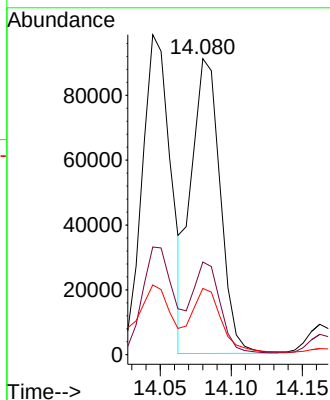
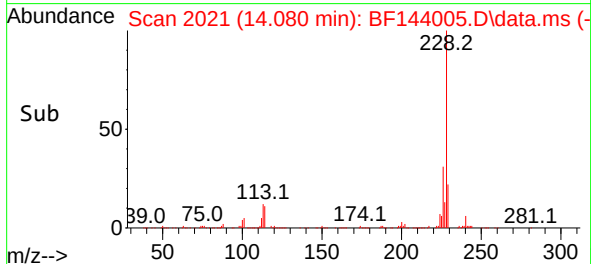
Instrument :
BNA_F
ClientSampleId :
CENTRAL-AVE-TP



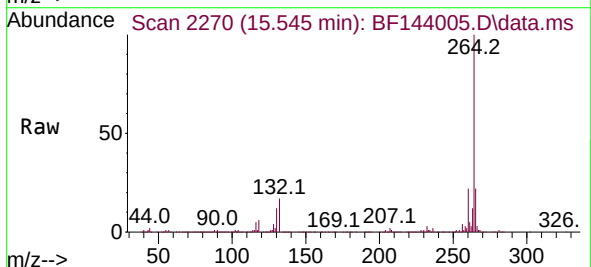
Tgt Ion:228 Resp: 129212
Ion Ratio Lower Upper
228 100
226 31.3 24.4 36.6
229 22.4 15.9 23.9

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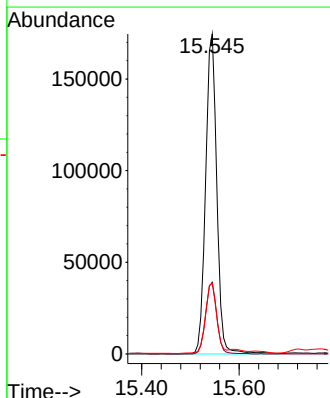
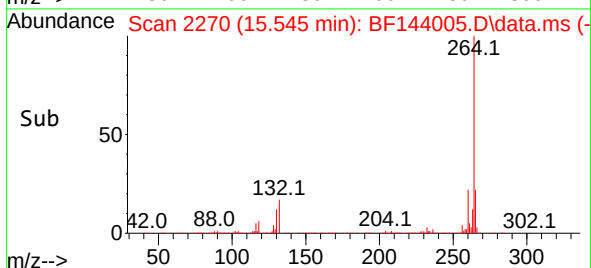
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

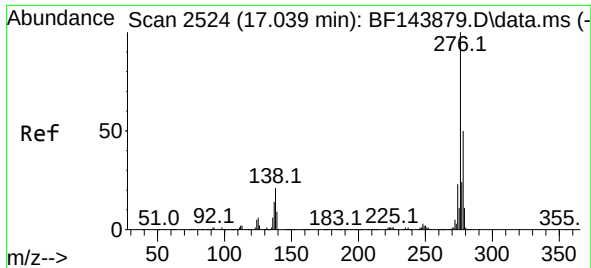


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24



Tgt Ion:264 Resp: 279566
Ion Ratio Lower Upper
264 100
260 22.4 17.8 26.8
265 22.1 17.5 26.3





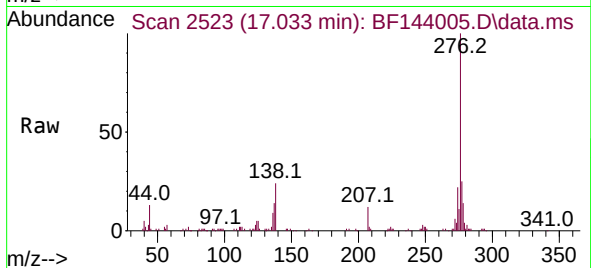
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.758 ng
RT: 17.033 min Scan# 2195
Delta R.T. -0.024 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

CENTRAL-AVE-TP

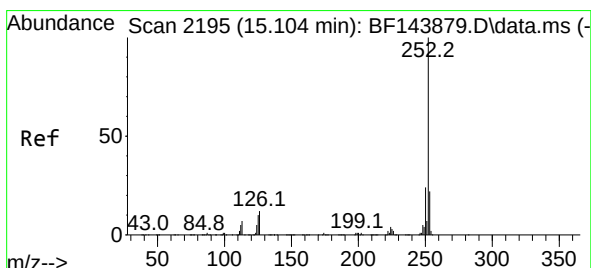
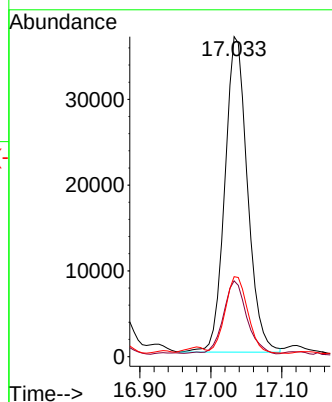
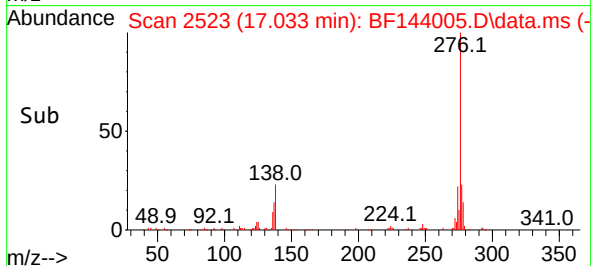


Tgt Ion:276 Resp: 81512
Ion Ratio Lower Upper
276 100
138 25.4 18.2 27.2
277 24.6 19.8 29.6

Manual Integrations

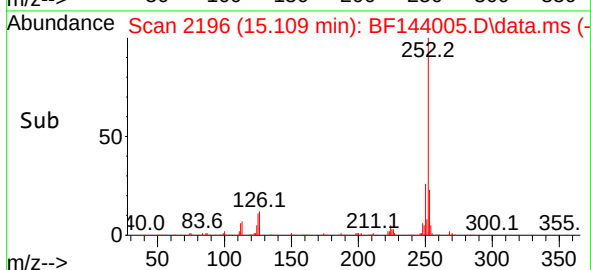
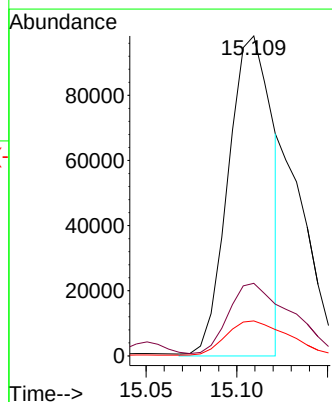
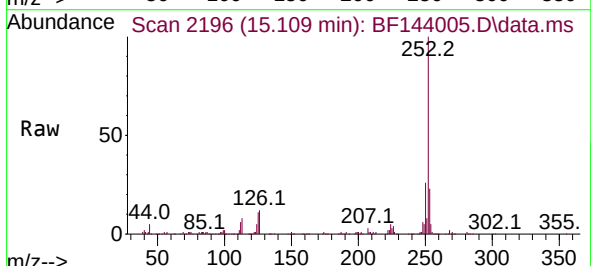
APPROVED

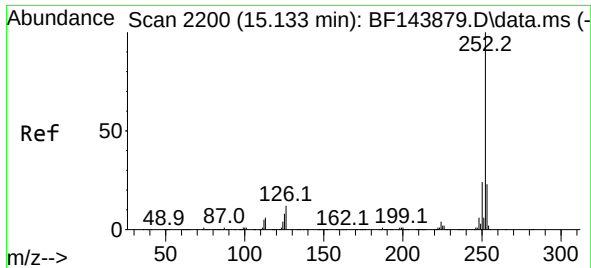
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#88
Benzo(b)fluoranthene
Concen: 10.279 ng m
RT: 15.109 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF144005.D
Acq: 20 Oct 2025 18:24

Tgt Ion:252 Resp: 165076
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 10.9 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 4.606 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.024 min

Lab File: BF144005.D

Acq: 20 Oct 2025 18:24

Instrument :

BNA_F

ClientSampleId :

CENTRAL-AVE-TP

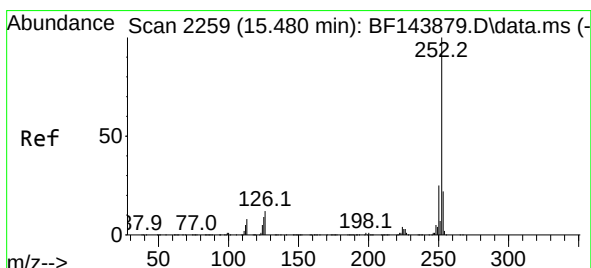
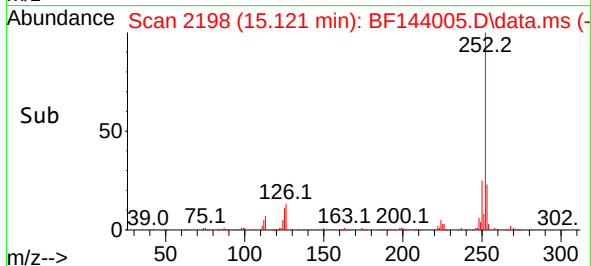
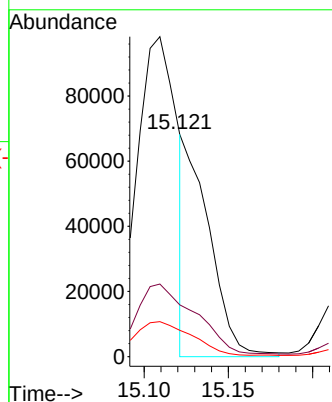
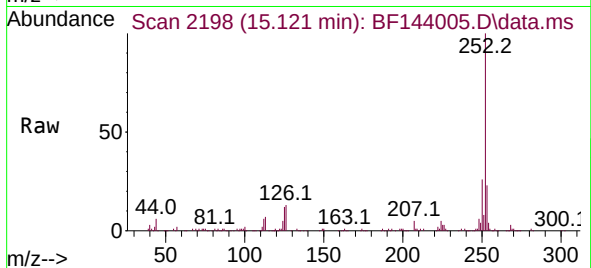
Tgt Ion:252 Resp: 68444
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.8 26.8
 125 11.8 7.4 11.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#90

Benzo(a)pyrene

Concen: 10.295 ng

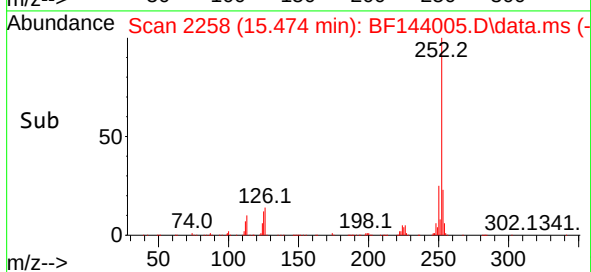
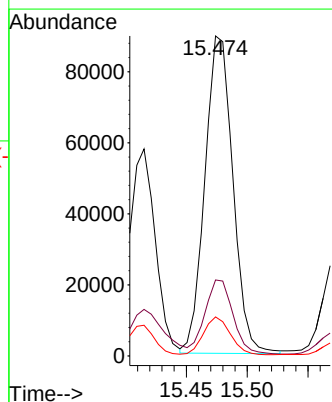
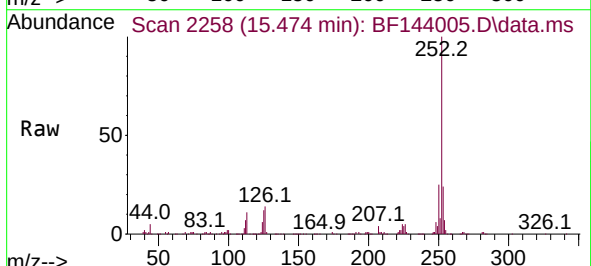
RT: 15.474 min Scan# 2258

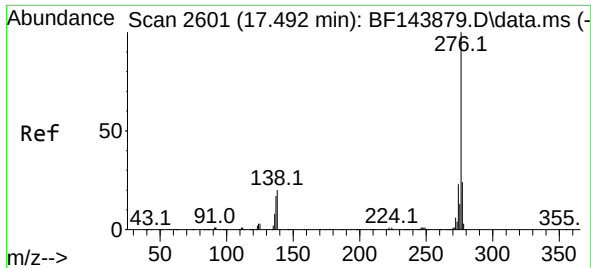
Delta R.T. -0.012 min

Lab File: BF144005.D

Acq: 20 Oct 2025 18:24

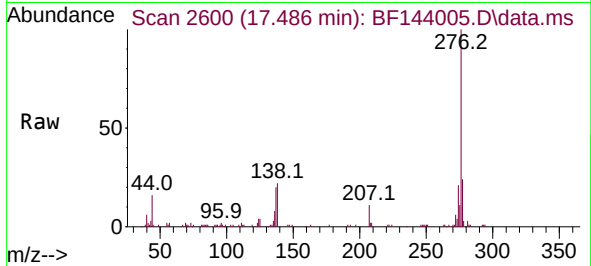
Tgt Ion:252 Resp: 143352
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.3 25.9
 125 12.2 7.0 10.4





#92
 Benzo(g,h,i)perylene
 Concen: 5.773 ng
 RT: 17.486 min Scan# 20
 Delta R.T. -0.030 min
 Lab File: BF144005.D
 Acq: 20 Oct 2025 18:24

Instrument :
 BNA_F
 ClientSampleId :
 CENTRAL-AVE-TP



Tgt Ion:276	Resp:	79540
Ion Ratio	Lower	Upper
276	100	
277	24.3	19.0 28.6
138	22.1	16.1 24.1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

