

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062625\
 Data File : BF142879.D
 Acq On : 26 Jun 2025 20:32
 Operator : RC/JU
 Sample : Q2423-01 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT915

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

06/27/2025

Supervised By :Jagrut

Upadhyay

06/27/2025

Quant Time: Jun 27 01:22:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	57092	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	193730	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	80522	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	101030	20.000	ng	# 0.01
76) Chrysene-d12	14.080	240	107641	20.000	ng	# 0.02
86) Perylene-d12	15.562	264	85556	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	136352	39.763	ng	0.00
7) Phenol-d6	6.498	99	155866	38.527	ng	-0.01
23) Nitrobenzene-d5	7.434	82	89402	25.312	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	30492	36.798	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	166789	27.211	ng	-0.01
79) Terphenyl-d14	13.045	244	141058	18.106	ng	0.05
Target Compounds						Qvalue
52) Acenaphthene	9.951	154	16341	3.408	ng	# 89
55) Dibenzofuran	10.122	168	17561m	2.554	ng	
58) Fluorene	10.469	166	20057	3.736	ng	# 70
66) n-Nitrosodiphenylamine	10.580	169	11924m	3.405	ng	
71) Phenanthrene	11.451	178	242345	44.282	ng	# 85
75) Fluoranthene	12.692	202	369851	71.208	ng	85
78) Pyrene	12.921	202	333137	33.018	ng	# 88
81) Benzo(a)anthracene	14.074	228	151187	20.820	ng	94
83) Chrysene	14.104	228	165189	25.494	ng	95
84) Bis(2-ethylhexyl)phtha...	14.039	149	70192	16.669	ng	# 88
87) Indeno(1,2,3-cd)pyrene	17.056	276	65672	10.077	ng	97
88) Benzo(b)fluoranthene	15.127	252	212687m	42.961	ng	
89) Benzo(k)fluoranthene	15.151	252	27993m	6.044	ng	
90) Benzo(a)pyrene	15.498	252	104772	21.907	ng	# 92
91) Dibenzo(a,h)anthracene	17.068	278	15103	2.852	ng	# 84
92) Benzo(g,h,i)perylene	17.515	276	69549	13.172	ng	99

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

Manual Integrations

06/27/2025

Abundance

TIC: BF142879.D\data.ms 06/27/2025

1e+07

9500000

9000000

8500000

8000000

7500000

7000000

6500000

6000000

5500000

5000000

4500000

4000000

3500000

3000000

2500000

2000000

1500000

1000000

500000

0

Time-->

3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00

2-Fluorophenol, S

Phenol-d6, S

1,4-Dichlorobenzene-d4, I

Nitrobenzene-d5, S

Naphthalene-d8, I

2-Fluorobiphenyl, S

Acenaphthene-d10, I

Dibenzofuran

Fluorene

1,2,3,4-Tetrabromodiphenyl ether, S

Phenanthrene-d10, I

Phenanthrene

Terphenyl-d14, S

Pyrene

Fluoranthene, C

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(k)fluoranthene

Benzo(e)pyrene, C

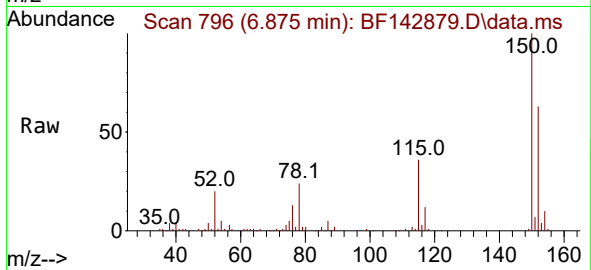
Dibenz(a,h)anthracene

Benzo(g,h,i)perylene



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
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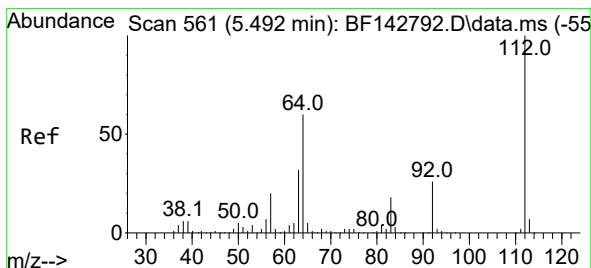
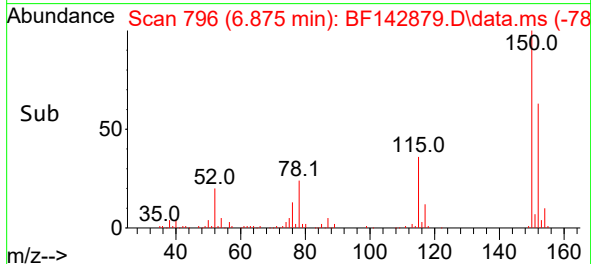
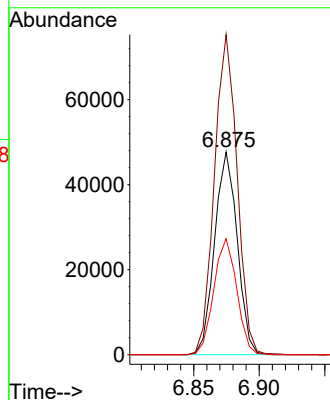
Tgt Ion:152 Resp: 57092
Ion Ratio Lower Upper
152 100
150 157.9 127.2 190.8
115 57.2 46.6 69.8

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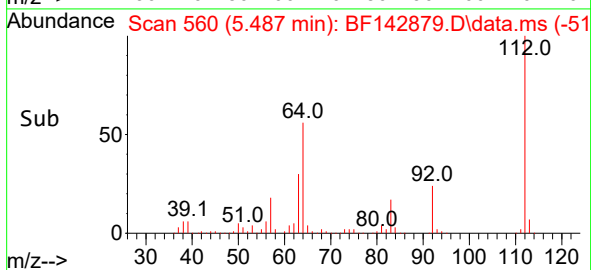
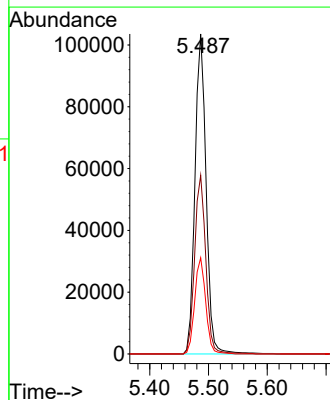
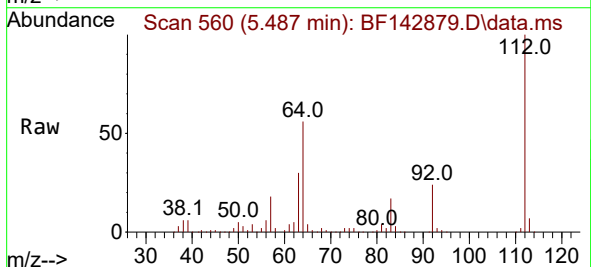
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Upadhyay
06/27/2025



#5
2-Fluorophenol
Concen: 39.763 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.005 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

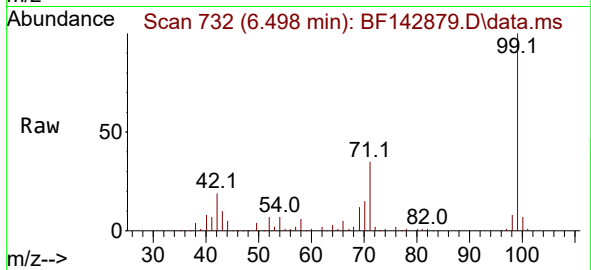
Tgt Ion:112 Resp: 136352
Ion Ratio Lower Upper
112 100
64 55.8 48.2 72.2
63 30.1 25.7 38.5





#7
Phenol-d6
Concen: 38.527 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915



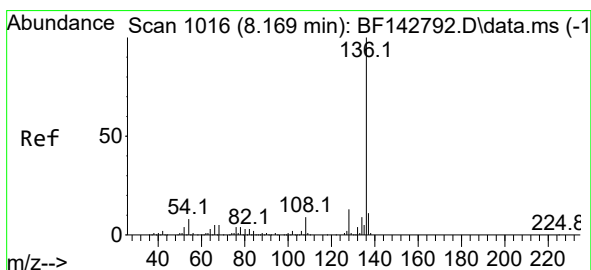
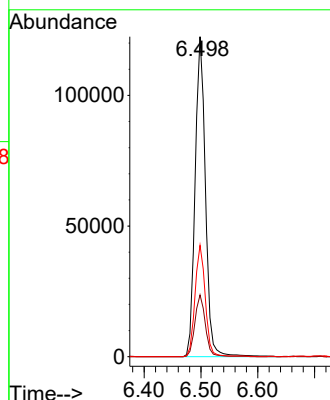
Tgt Ion: 99 Resp: 155860
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 34.8 27.8 41.8

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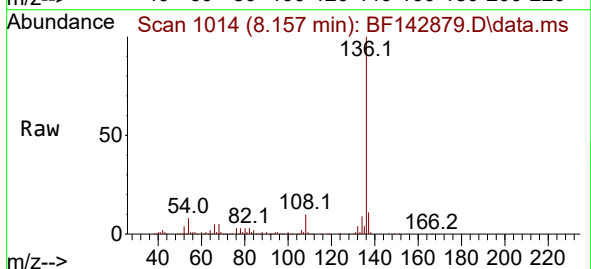
Reviewed By :Rahul
Chavli

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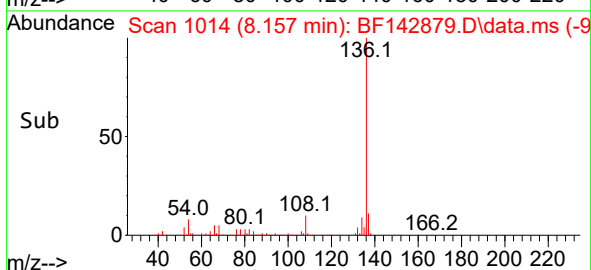
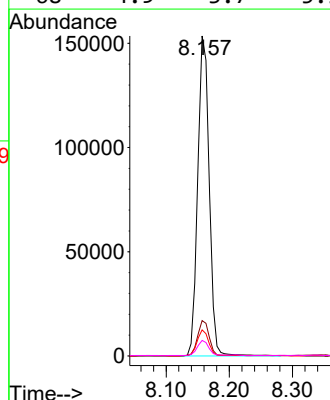
Supervised By :Jagrut
Upadhyay
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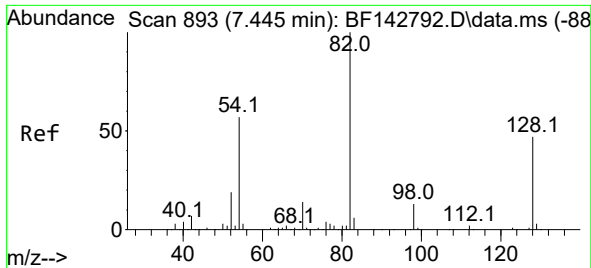


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32



Tgt Ion:136 Resp: 193730
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.2 6.3 9.5
68 4.9 3.7 5.5





#23
Nitrobenzene-d5
Concen: 25.312 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.011 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915

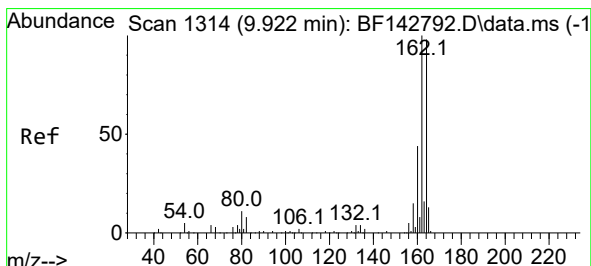
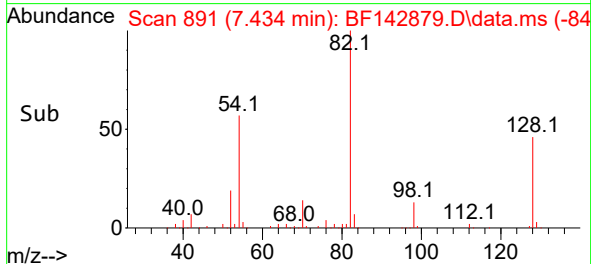
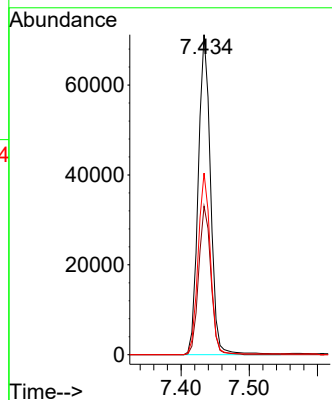
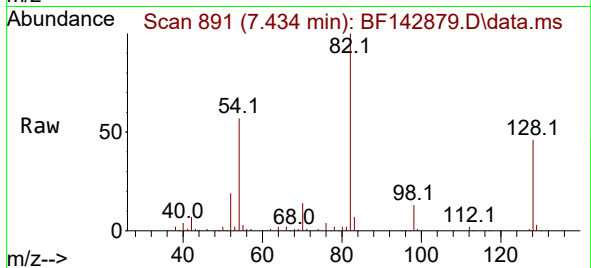
Tgt Ion: 82 Resp: 8940
Ion Ratio Lower Upper
82 100
128 46.4 37.7 56.5
54 56.8 45.7 68.5

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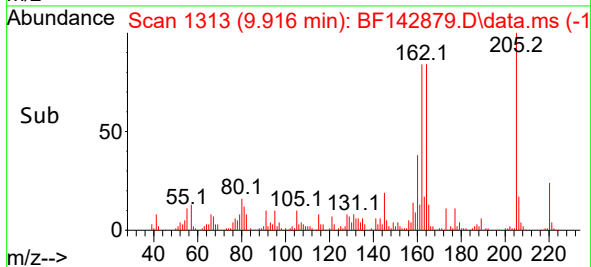
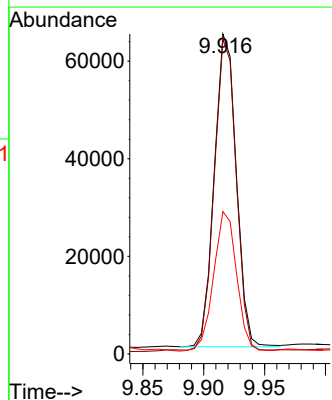
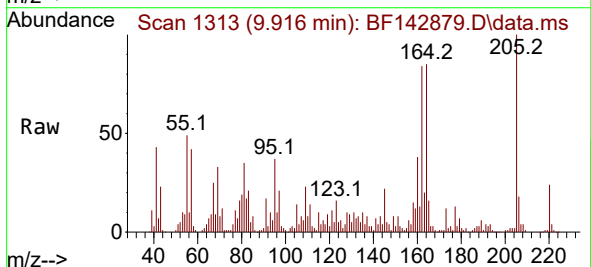
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Upadhyay
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

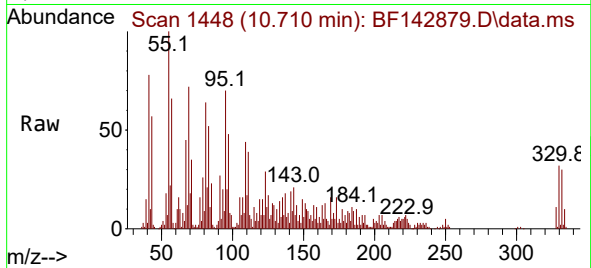
Tgt Ion:164 Resp: 80522
Ion Ratio Lower Upper
164 100
162 98.4 81.8 122.8
160 44.5 36.0 54.0





#42
2,4,6-Tribromophenol
Concen: 36.798 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915

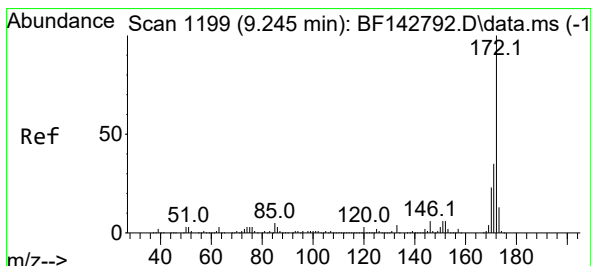
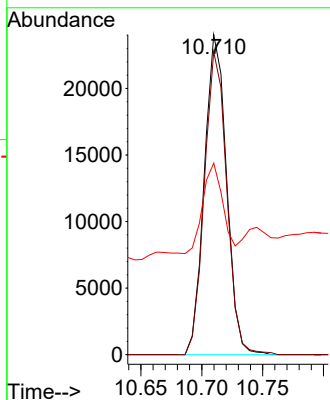
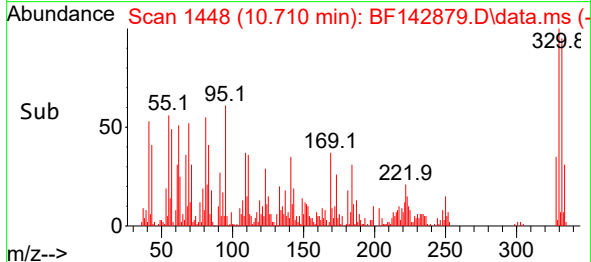


Tgt Ion: 330 Resp: 30492
Ion Ratio Lower Upper
330 100
332 95.4 75.0 112.6
141 25.3 25.3 37.9

Manual Integrations
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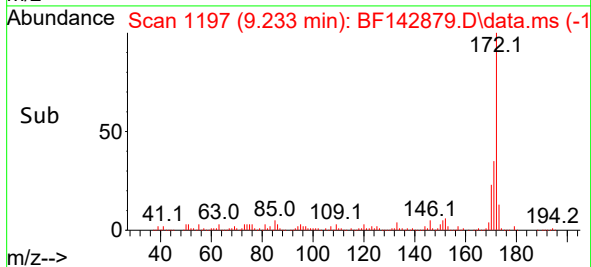
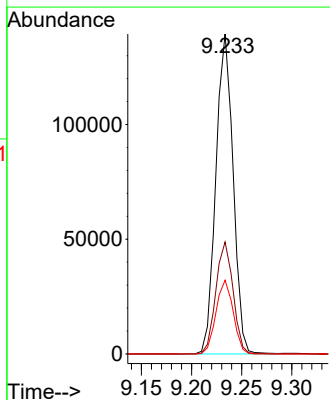
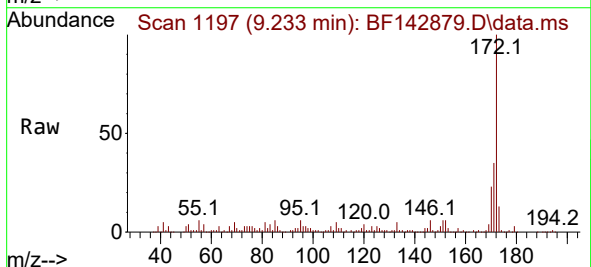
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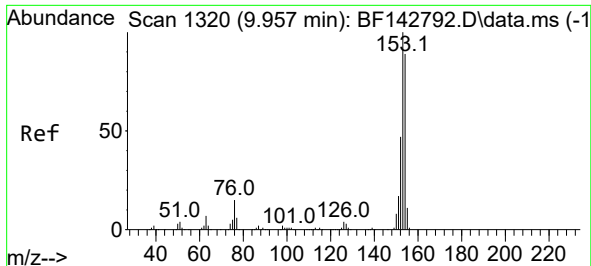
Supervised By :Jagrut
Upadhyay
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#45
2-Fluorobiphenyl
Concen: 27.211 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

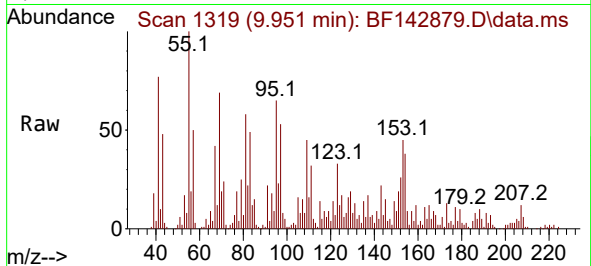
Tgt Ion: 172 Resp: 166789
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.4
170 23.0 18.5 27.7





#52
Acenaphthene
Concen: 3.408 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915

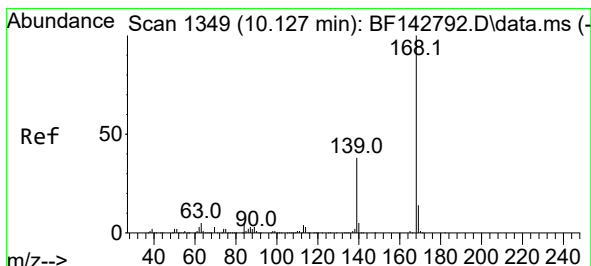
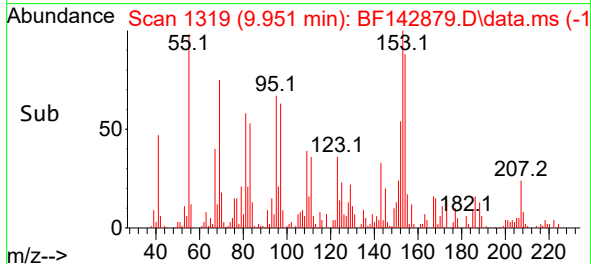
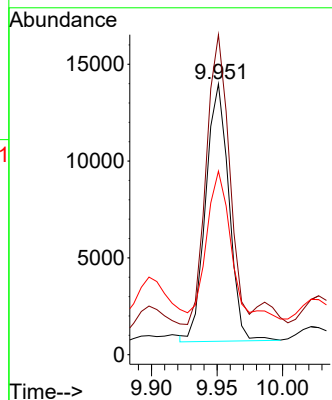


Tgt Ion:154 Resp: 1634
Ion Ratio Lower Upper
154 100
153 118.2 90.0 135.0
152 67.8 41.9 62.9

Manual Integrations
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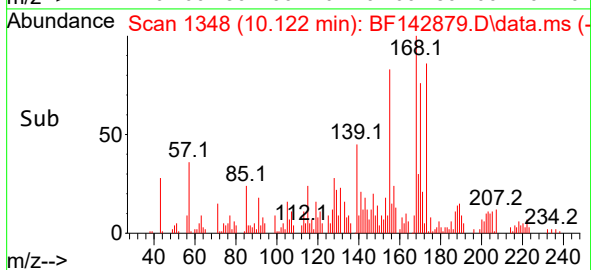
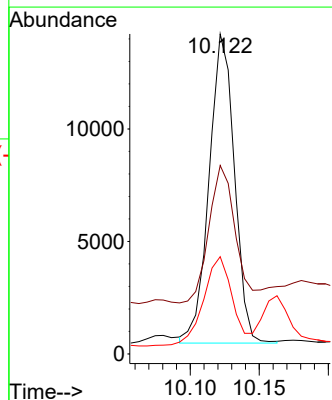
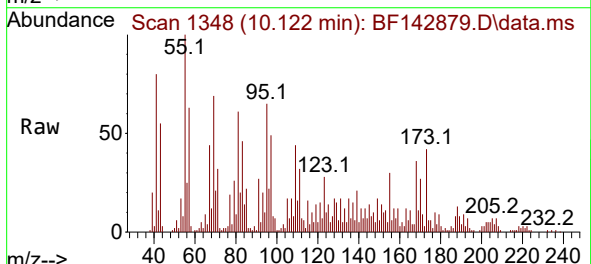
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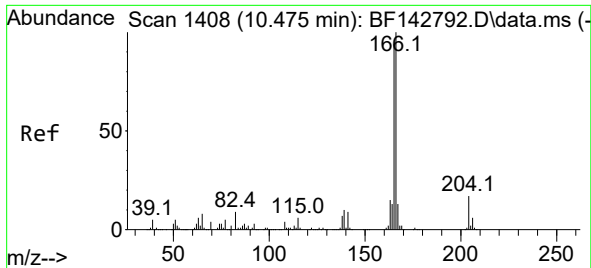
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Upadhyay
06/27/2025



#55
Dibenzofuran
Concen: 2.554 ng m
RT: 10.122 min Scan# 1348
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

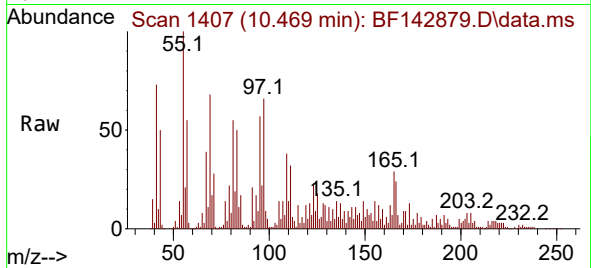
Tgt Ion:168 Resp: 17561
Ion Ratio Lower Upper
168 100
139 58.9 30.2 45.4#
169 30.4 10.8 16.2#





#58
Fluorene
Concen: 3.736 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
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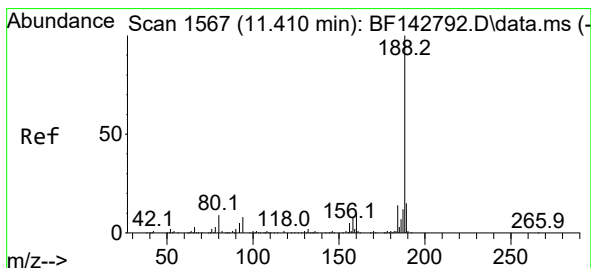
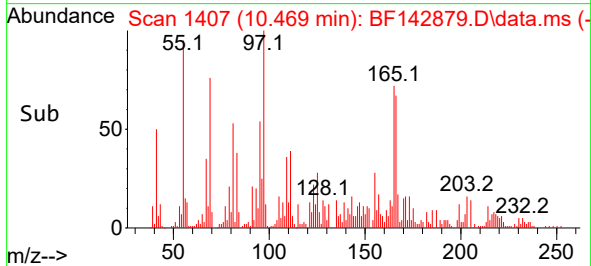
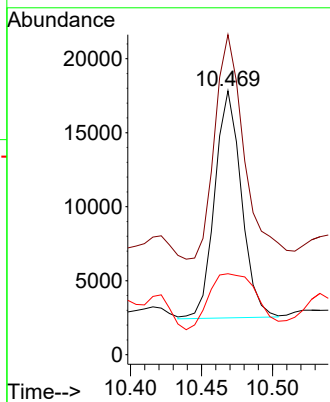


Tgt Ion:166 Resp: 2005
Ion Ratio Lower Upper
166 100
165 121.3 75.2 112.8
167 30.7 10.6 15.8

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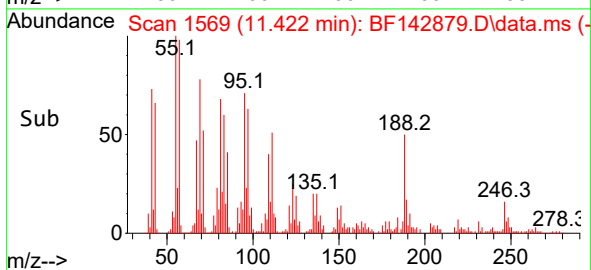
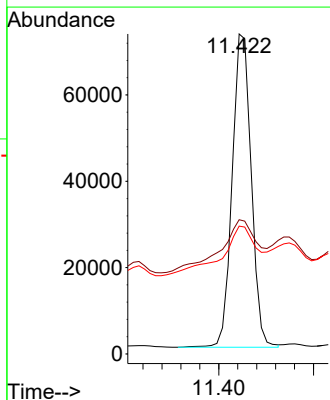
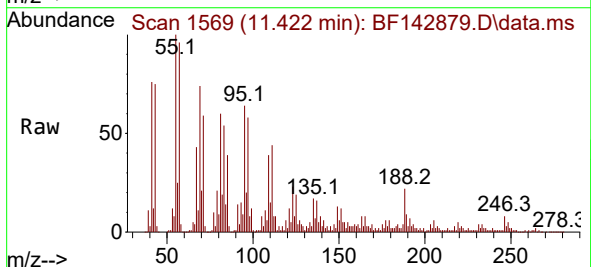
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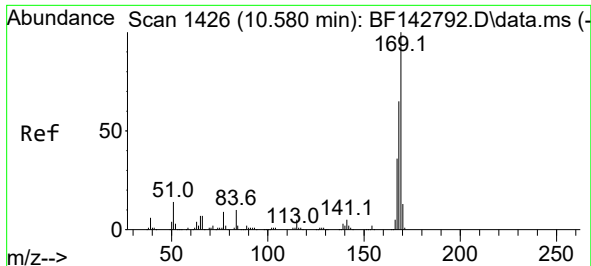
Supervised By :Jagrut
Upadhyay
06/27/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. 0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

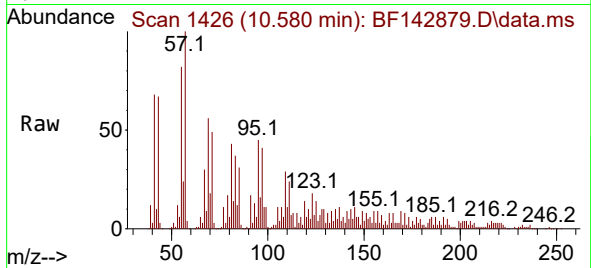
Tgt Ion:188 Resp: 101030
Ion Ratio Lower Upper
188 100
94 41.9 6.7 10.1#
80 40.0 6.9 10.3#





#66
n-Nitrosodiphenylamine
Concen: 3.405 ng m
RT: 10.580 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
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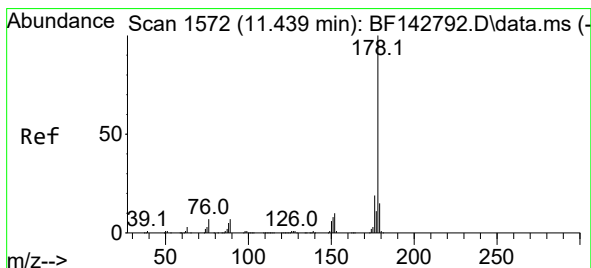
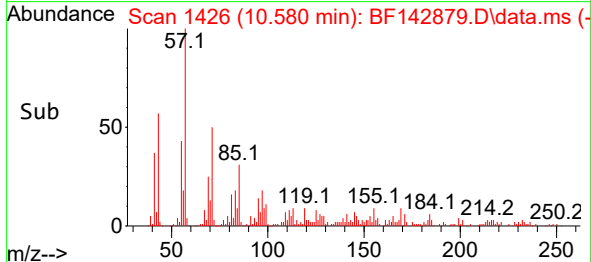
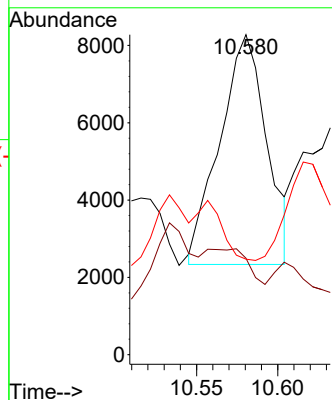
Tgt Ion:169 Resp: 11924
Ion Ratio Lower Upper
169 100
168 30.2 51.9 77.9
167 29.9 28.5 42.7

Manual Integrations
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Chavli

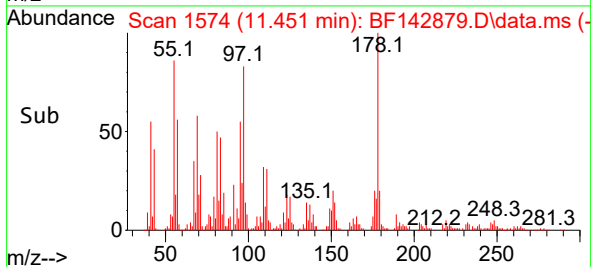
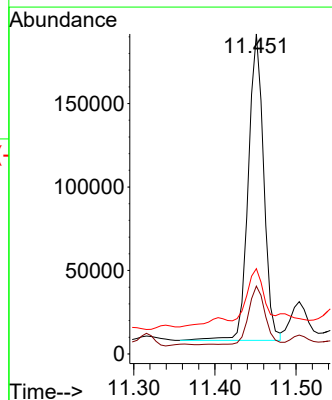
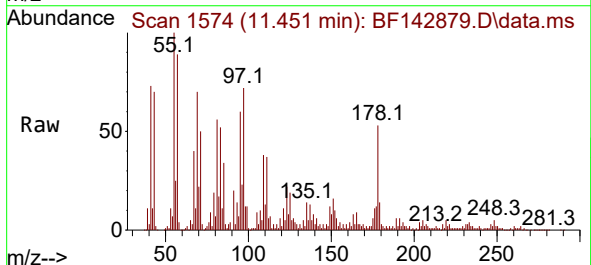
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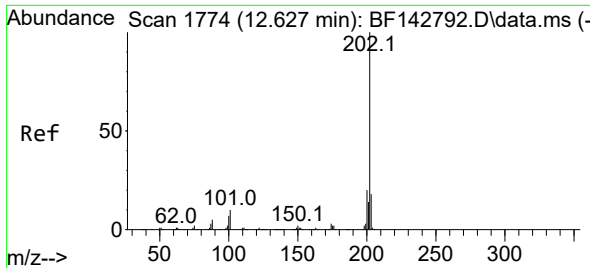
Supervised By :Jagrut
Upadhyay
06/27/2025



#71
Phenanthrene
Concen: 44.282 ng
RT: 11.451 min Scan# 1574
Delta R.T. 0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

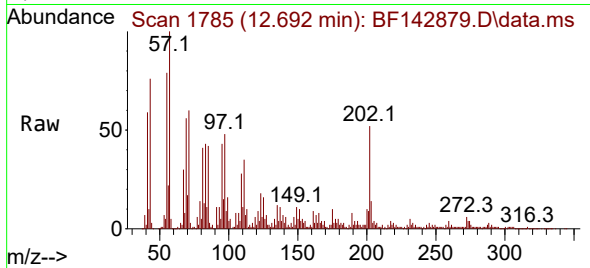
Tgt Ion:178 Resp: 242345
Ion Ratio Lower Upper
178 100
176 21.2 15.1 22.7
179 26.6 12.0 18.0#





#75
Fluoranthene
Concen: 71.208 ng
RT: 12.692 min Scan# 11
Delta R.T. 0.065 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915



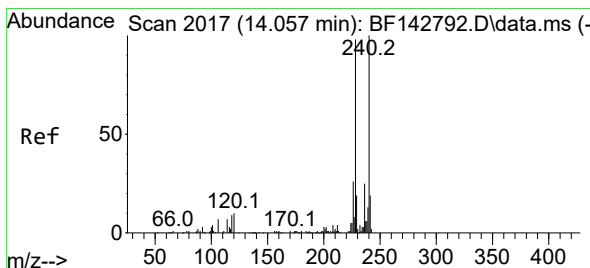
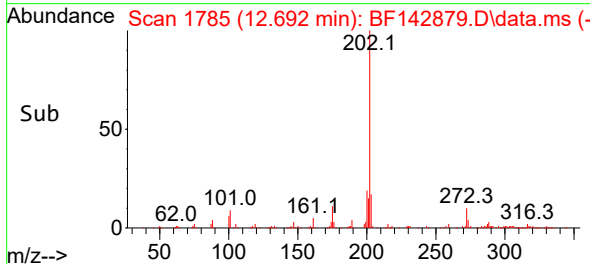
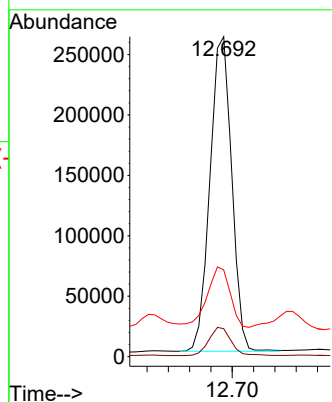
Tgt Ion:202 Resp: 36985
Ion Ratio Lower Upper
202 100
101 8.8 0.0 29.7
203 27.1 0.0 37.5

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Reviewed By :Rahul
Chavli

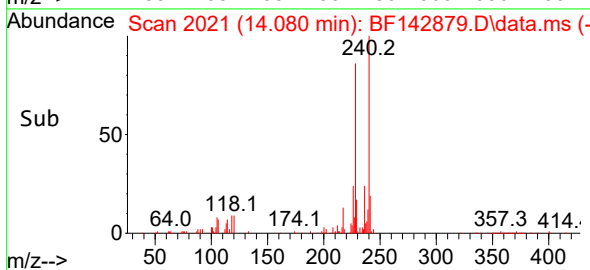
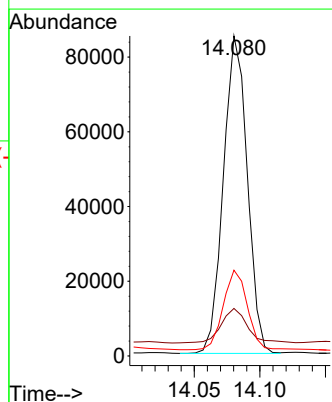
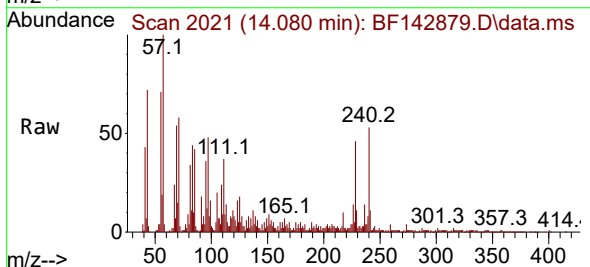
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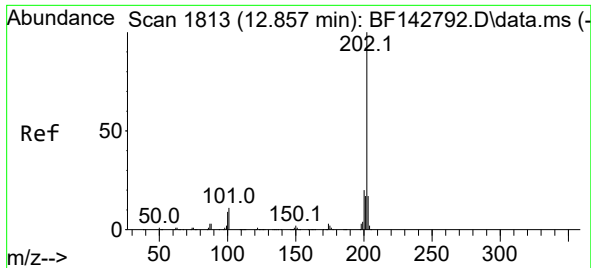
Supervised By :Jagrut
Upadhyay
06/27/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.024 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

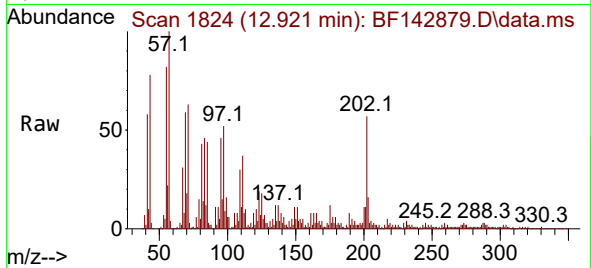
Tgt Ion:240 Resp: 107641
Ion Ratio Lower Upper
240 100
120 14.8 8.2 12.2#
236 26.8 19.8 29.8





#78
Pyrene
Concen: 33.018 ng
RT: 12.921 min Scan# 1824
Delta R.T. 0.065 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915



Tgt Ion:202 Resp: 33313
Ion Ratio Lower Upper
202 100
200 19.4 15.7 23.5
203 27.8 13.8 20.6

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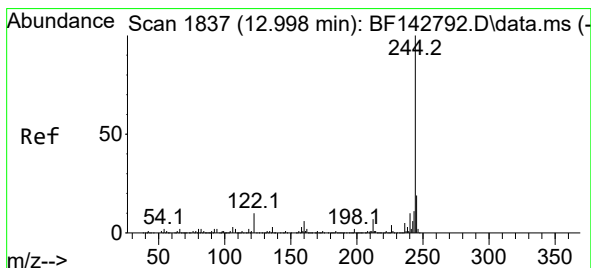
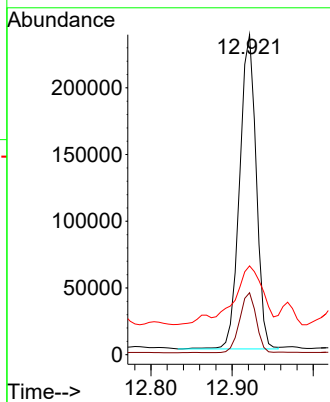
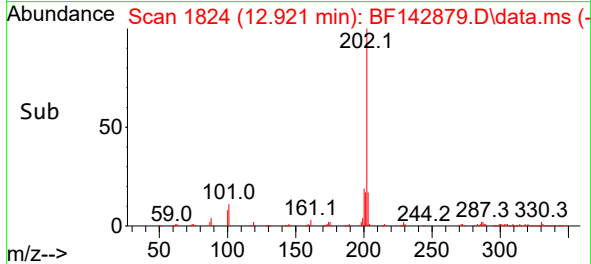
Reviewed By :Rahul
Chavli

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Supervised By :Jagrut

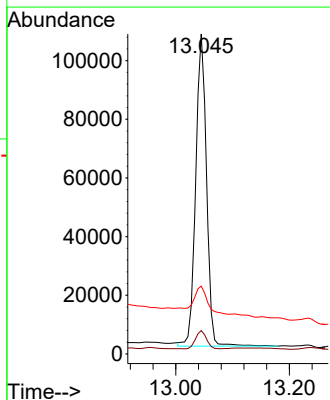
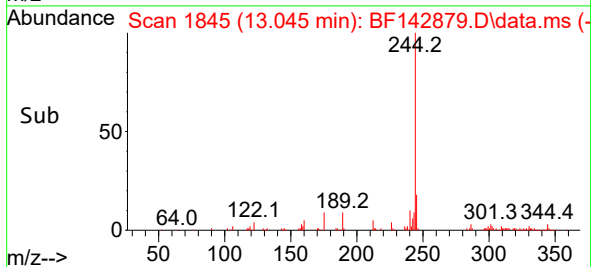
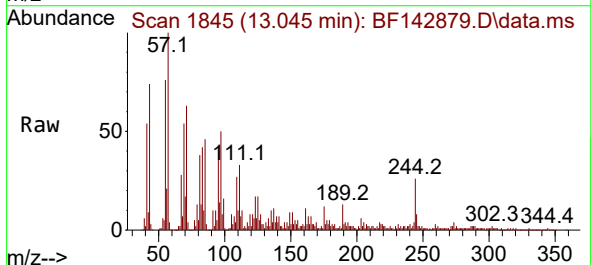
Upadhyay

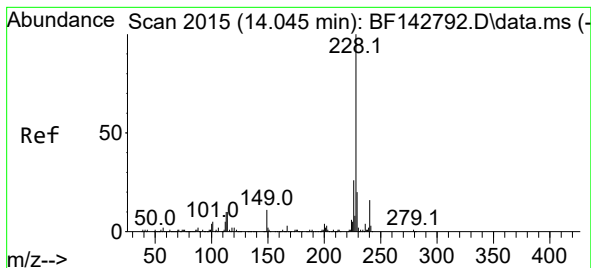
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#79
Terphenyl-d14
Concen: 18.106 ng
RT: 13.045 min Scan# 1845
Delta R.T. 0.047 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion:244 Resp: 141058
Ion Ratio Lower Upper
244 100
212 7.3 5.4 8.0
122 21.2 8.2 12.2#





#81

Benzo(a)anthracene

Concen: 20.820 ng

RT: 14.074 min Scan# 20

Delta R.T. 0.029 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

Tgt Ion:228 Resp: 15118

Ion Ratio Lower Upper

228 100

226 28.5 21.2 31.8

229 23.2 15.6 23.4

Manual Integrations

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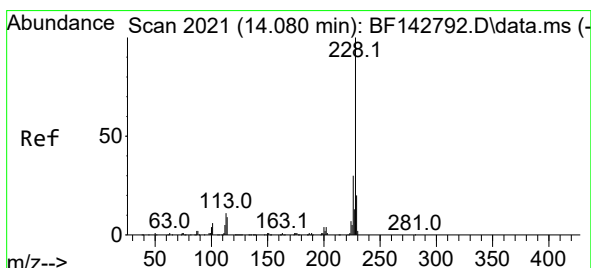
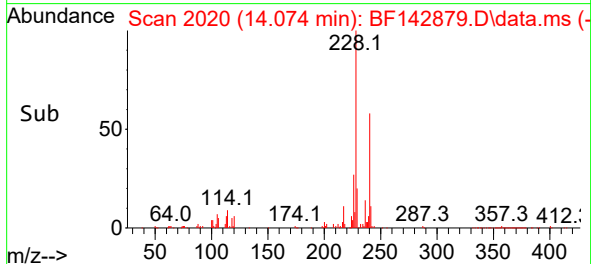
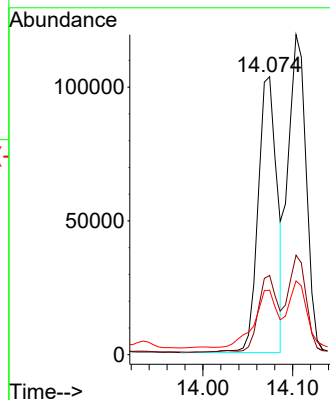
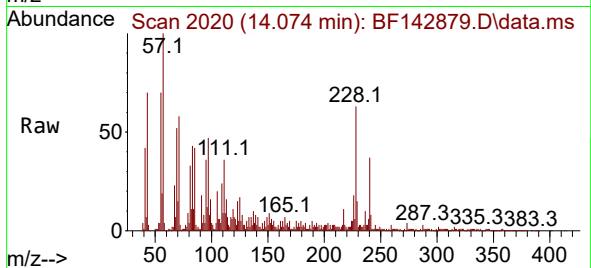
Chavli

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Supervised By :Jagrut

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#83

Chrysene

Concen: 25.494 ng

RT: 14.104 min Scan# 2025

Delta R.T. 0.024 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

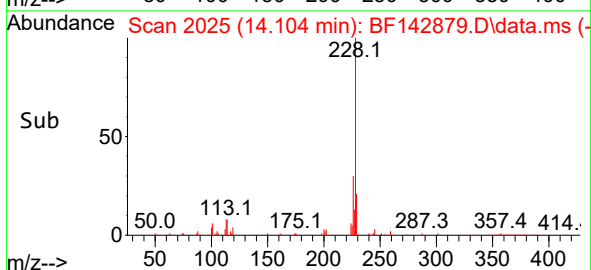
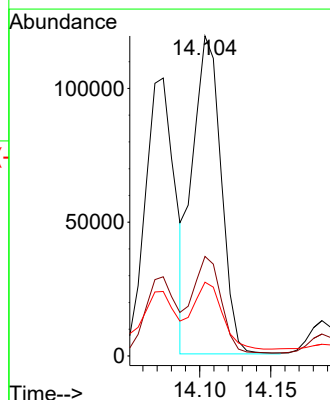
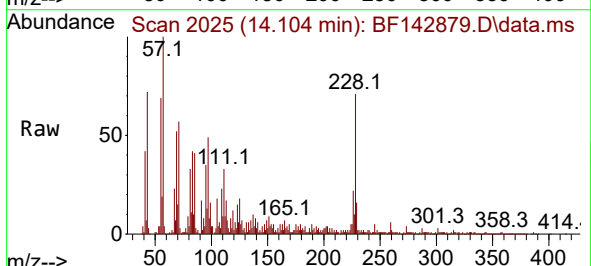
Tgt Ion:228 Resp: 165189

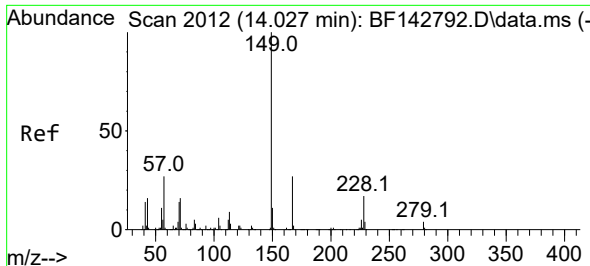
Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

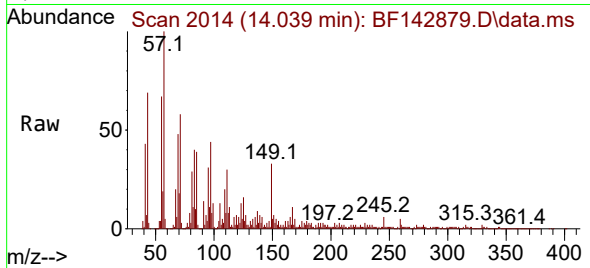
229 23.0 15.7 23.5





#84
Bis(2-ethylhexyl)phthalate
Concen: 16.669 ng
RT: 14.039 min Scan# 2012
Delta R.T. 0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument :
BNA_F
ClientSampleId :
RT915



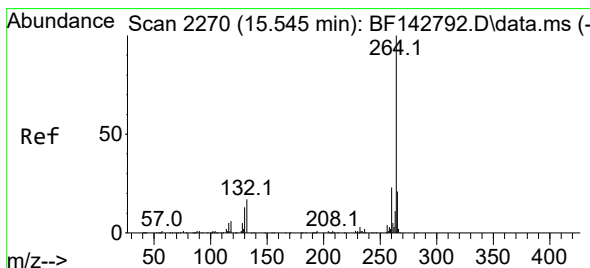
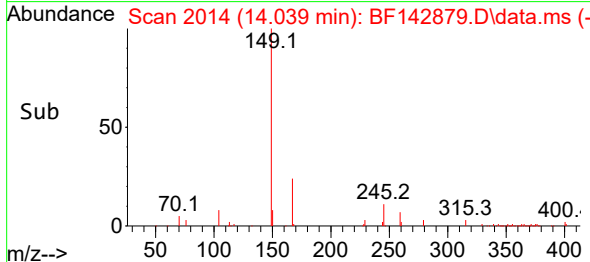
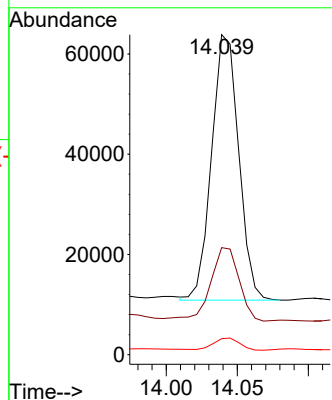
Tgt Ion:149 Resp: 70192
Ion Ratio Lower Upper
149 100
167 33.5 21.4 32.0
279 5.0 3.0 4.6

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Reviewed By :Rahul
Chavli

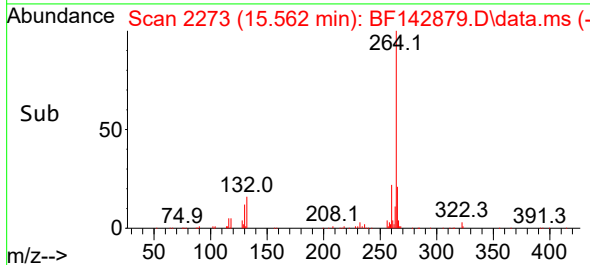
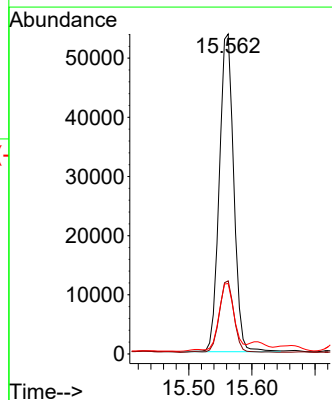
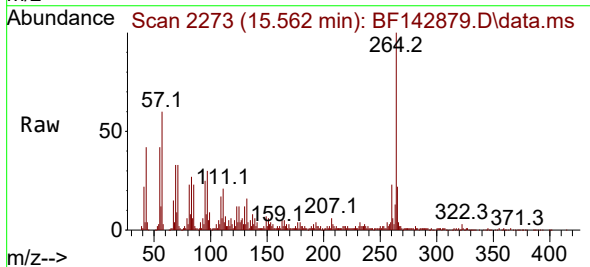
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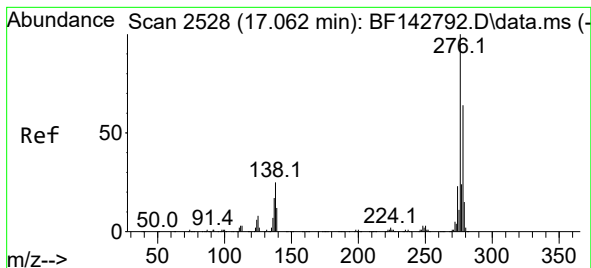
Supervised By :Jagrut
Upadhyay
06/27/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. 0.018 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion:264 Resp: 85556
Ion Ratio Lower Upper
264 100
260 22.9 18.1 27.1
265 22.0 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.077 ng

RT: 17.056 min Scan# 2199

Delta R.T. -0.006 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

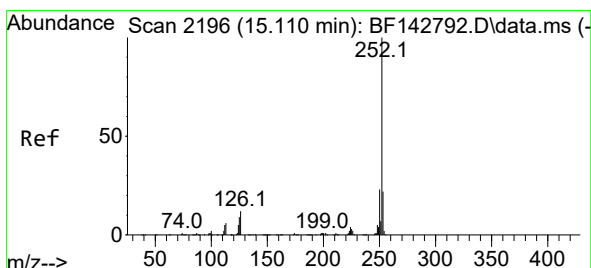
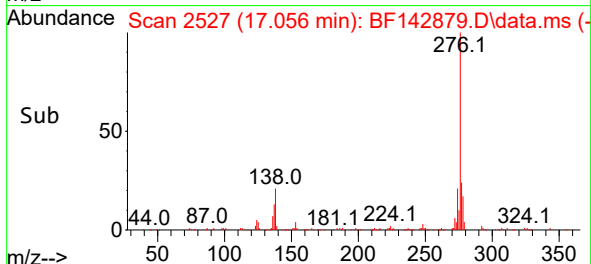
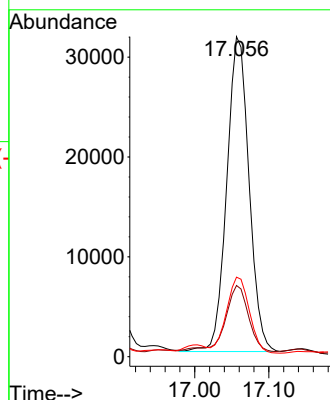
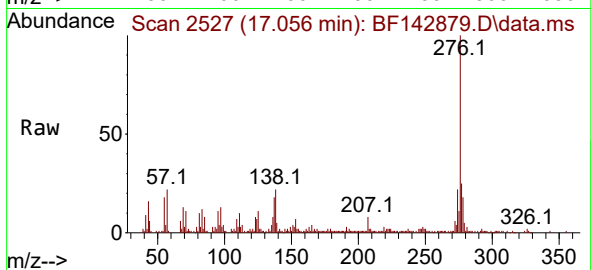
Tgt Ion:276 Resp: 65672
 Ion Ratio Lower Upper
 276 100
 138 22.4 20.2 30.4
 277 24.7 19.8 29.6

Manual Integrations
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Reviewed By :Rahul
 Chavli

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#88

Benzo(b)fluoranthene

Concen: 42.961 ng m

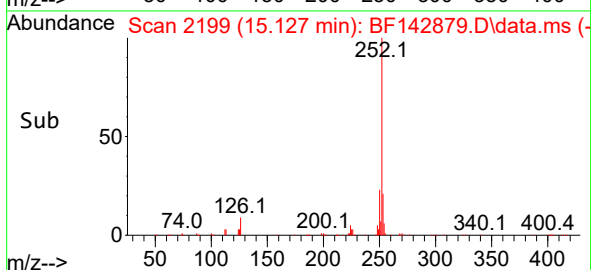
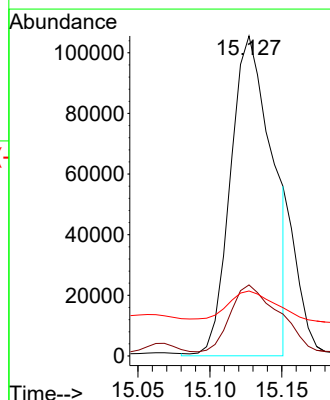
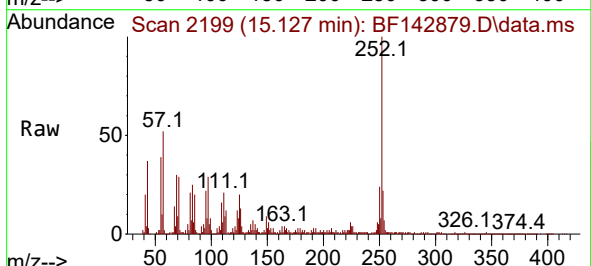
RT: 15.127 min Scan# 2199

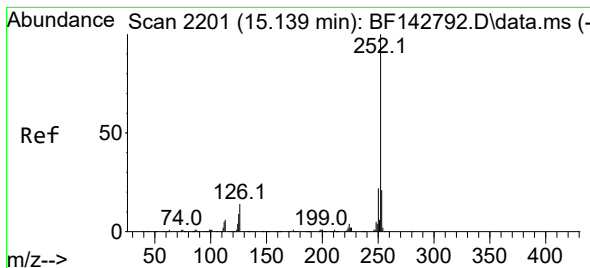
Delta R.T. 0.018 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Tgt Ion:252 Resp: 212687
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.5 26.3
 125 20.3 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 6.044 ng m

RT: 15.151 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

Tgt Ion:	252	Resp:	2799
Ion Ratio	Lower	Upper	
252	100		
253	24.7	17.2	25.8
125	28.5	7.4	11.2

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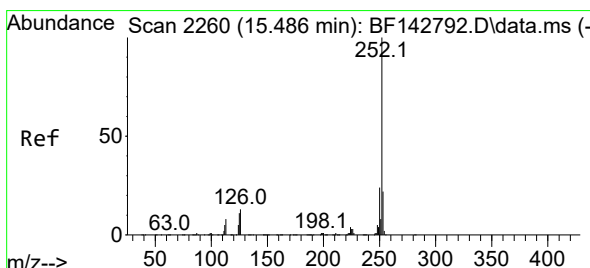
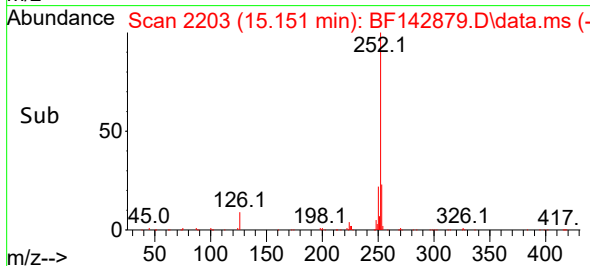
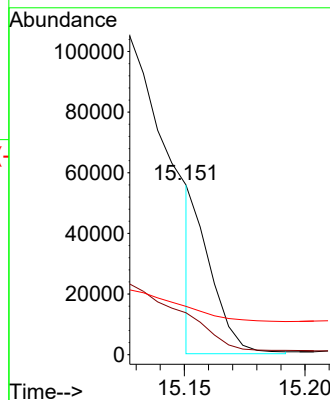
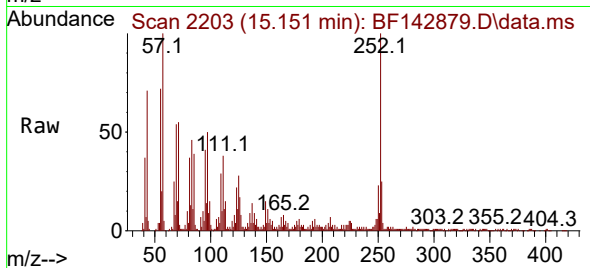
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#90

Benzo(a)pyrene

Concen: 21.907 ng

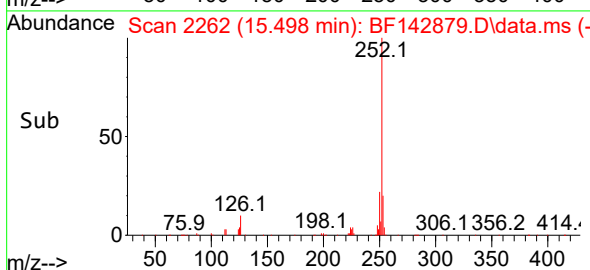
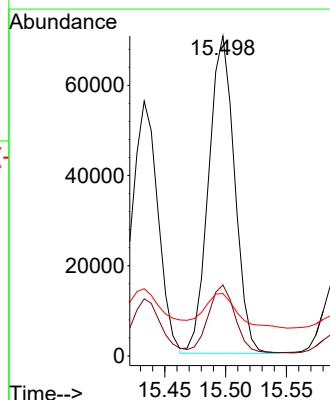
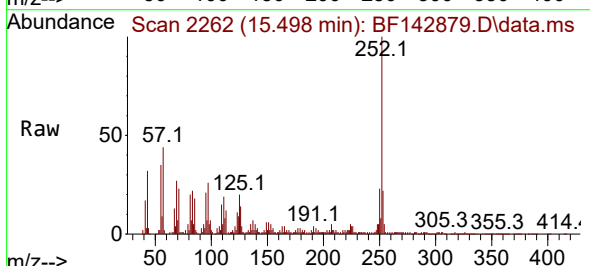
RT: 15.498 min Scan# 2262

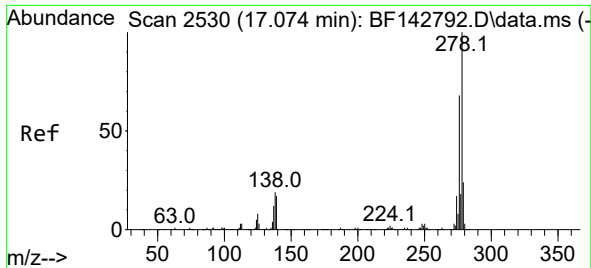
Delta R.T. 0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

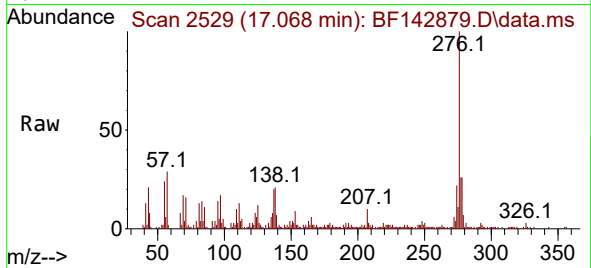
Tgt Ion:	252	Resp:	104772
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.5	26.3
125	19.5	8.6	12.8





#91
Dibenzo(a,h)anthracene
Concen: 2.852 ng
RT: 17.068 min Scan# 2529
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Instrument : BNA_F
ClientSampleId : RT915



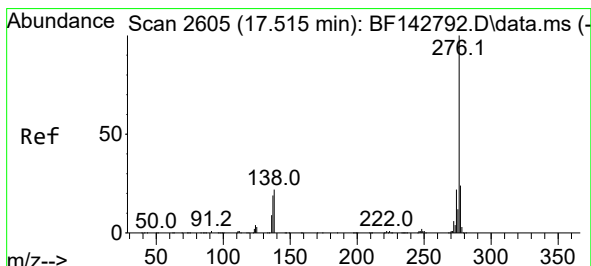
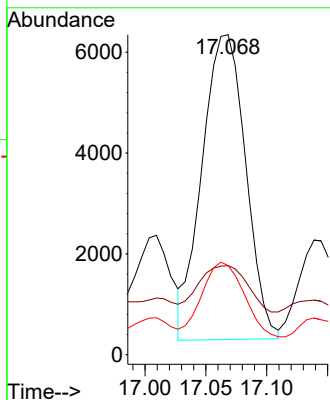
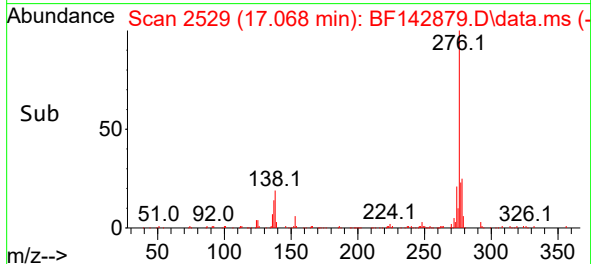
Tgt Ion:278 Resp: 1510
Ion Ratio Lower Upper
278 100
139 27.8 13.5 20.3
279 27.9 18.8 28.2

Manual Integrations
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Reviewed By :Rahul
Chavli

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Supervised By :Jagrut
Upadhyay
06/27/2025



#92
Benzo(g,h,i)perylene
Concen: 13.172 ng
RT: 17.515 min Scan# 2605
Delta R.T. 0.000 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion:276 Resp: 69549
Ion Ratio Lower Upper
276 100
277 24.7 18.8 28.2
138 22.1 17.6 26.4

