

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011425\
 Data File : BF141161.D
 Acq On : 14 Jan 2025 22:08
 Operator : RC/JU
 Sample : Q1077-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-01132025

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/15/2025
 Supervised By :Jagrut Upadhyay 01/15/2025

Quant Time: Jan 15 00:15:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 10 22:54:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	136233	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	489318	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	219550	20.000	ng	0.00
64) Phenanthrene-d10	11.345	188	321559	20.000	ng	0.00
76) Chrysene-d12	13.986	240	288360	20.000	ng	0.00
86) Perylene-d12	15.445	264	233396	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	693407	78.628	ng	0.00
7) Phenol-d6	6.440	99	835019	74.750	ng	0.00
23) Nitrobenzene-d5	7.381	82	516575	55.961	ng	0.00
42) 2,4,6-Tribromophenol	10.645	330	167544	66.974	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	843075	58.639	ng	0.00
79) Terphenyl-d14	12.933	244	804786	41.481	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	694409	26.910	ng	100
37) 2-Methylnaphthalene	8.816	142	506408	30.797	ng	100
38) 1-Methylnaphthalene	8.916	142	423230	26.116	ng	100
46) 1,1'-Biphenyl	9.281	154	112729	6.612	ng	98
49) Acenaphthylene	9.716	152	127871	6.740	ng	# 92
52) Acenaphthene	9.892	154	211122	15.927	ng	98
55) Dibenzofuran	10.063	168	77910	4.321	ng	# 86
58) Fluorene	10.404	166	130067	9.285	ng	# 96
71) Phenanthrene	11.369	178	1096457	63.513	ng	100
72) Anthracene	11.422	178	314550	18.739	ng	99
75) Fluoranthene	12.557	202	561009	32.565	ng	98
78) Pyrene	12.786	202	836049	30.355	ng	98
81) Benzo(a)anthracene	13.974	228	280465	14.292	ng	# 89
83) Chrysene	14.010	228	252080	13.728	ng	# 93
87) Indeno(1,2,3-cd)pyrene	16.898	276	110233m	6.447	ng	
88) Benzo(b)fluoranthene	15.027	252	222591m	14.790	ng	
89) Benzo(k)fluoranthene	15.039	252	74694m	5.873	ng	
90) Benzo(a)pyrene	15.386	252	229685	18.497	ng	98
92) Benzo(g,h,i)perylene	17.339	276	124689	8.668	ng	99

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

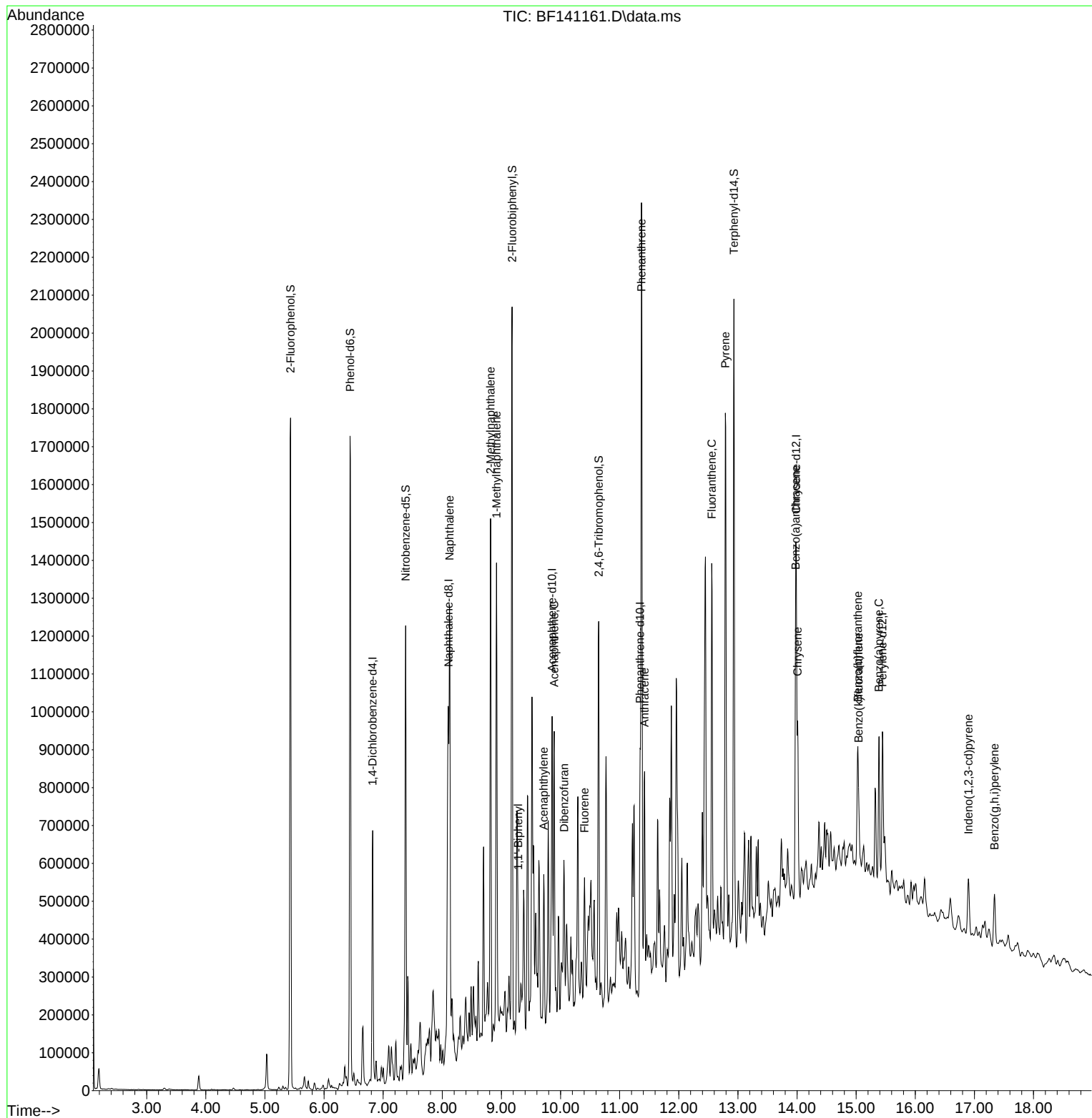
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011425\
Data File : BF141161.D
Acq On : 14 Jan 2025 22:08
Operator : RC/JU
Sample : Q1077-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

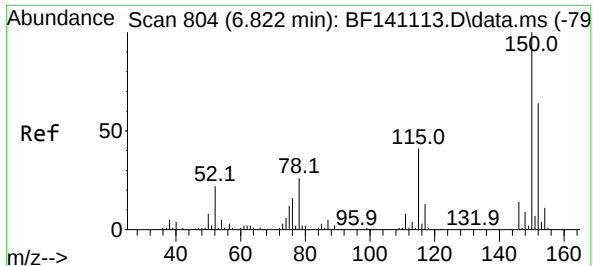
Instrument :
BNA_F
ClientSampleId :
TR-05-01132025

Quant Time: Jan 15 00:15:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

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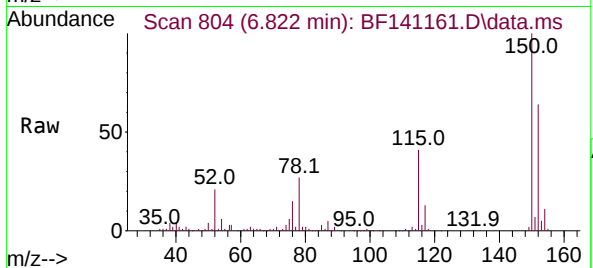
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 804
Delta R.T. -0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

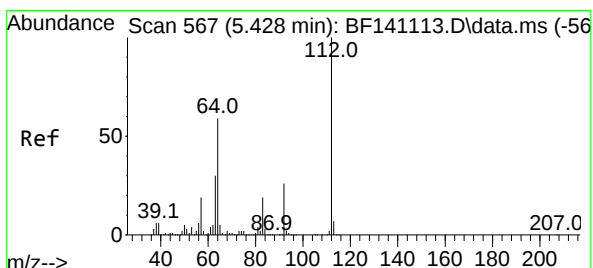
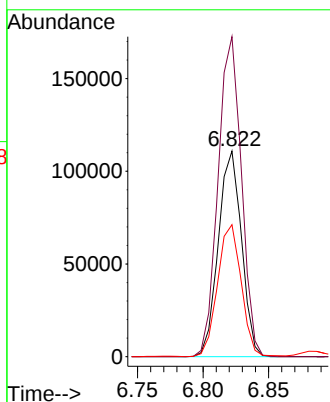
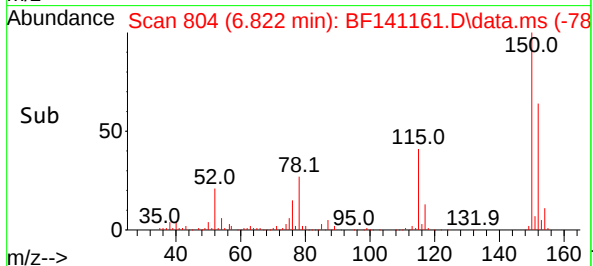
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BNA_F
ClientSampleId :
TR-05-01132025



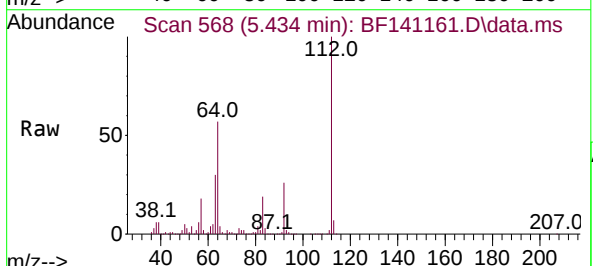
Tgt Ion:152 Resp: 136238
Ion Ratio Lower Upper
152 100
150 155.7 125.8 188.8
115 64.3 51.4 77.2

Manual Integrations
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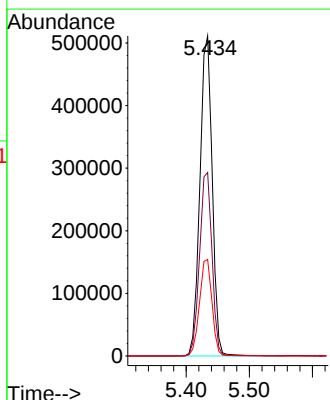
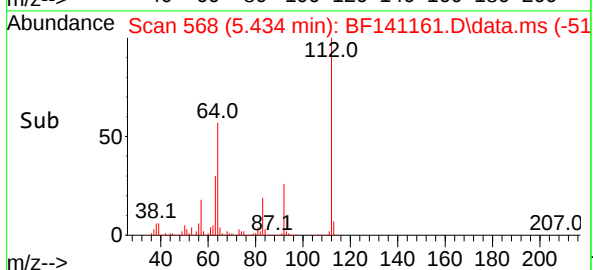
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025



#5
2-Fluorophenol
Concen: 78.628 ng
RT: 5.434 min Scan# 568
Delta R.T. 0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08



Tgt Ion:112 Resp: 693407
Ion Ratio Lower Upper
112 100
64 57.4 47.3 70.9
63 30.1 24.2 36.2





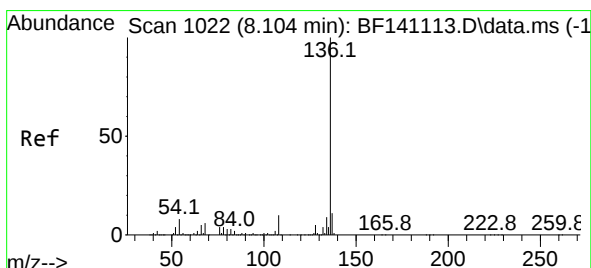
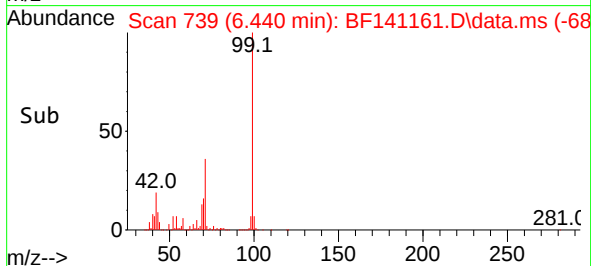
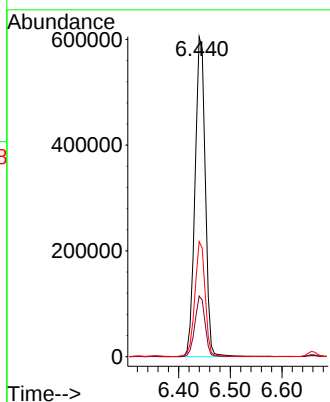
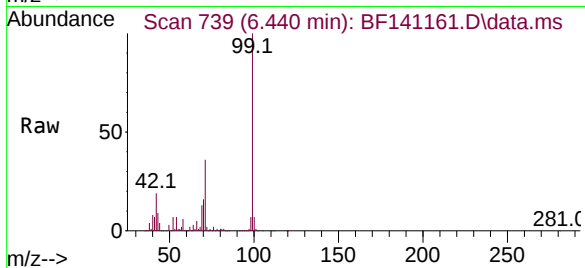
#7
Phenol-d6
Concen: 74.750 ng
RT: 6.440 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Instrument :
BNA_F
ClientSampleId :
TR-05-01132025

Tgt Ion: 99 Resp: 835019
Ion Ratio Lower Upper
99 100
42 19.0 15.0 22.4
71 36.0 27.6 41.4

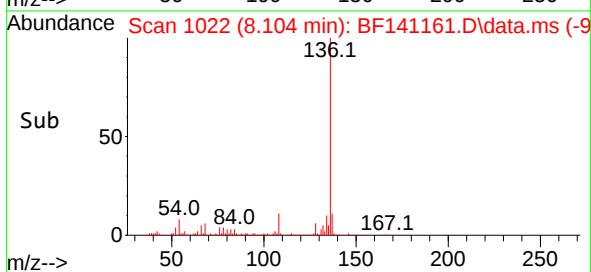
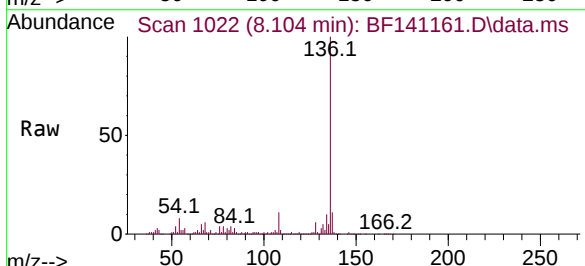
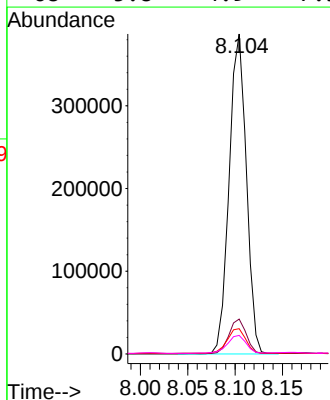
Manual Integrations
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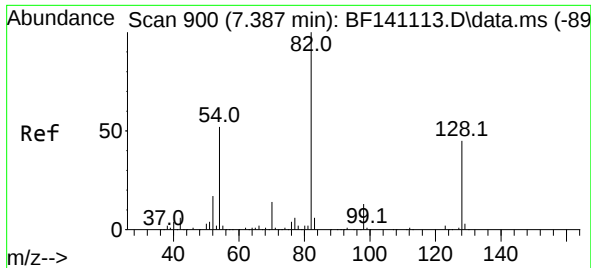
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Tgt Ion:136 Resp: 489318
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.9 6.3 9.5
68 5.8 4.9 7.3





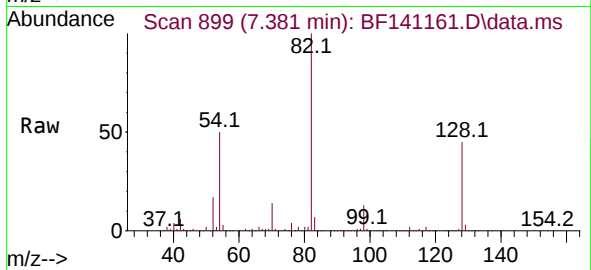
#23
Nitrobenzene-d5
Concen: 55.961 ng
RT: 7.381 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Instrument :

BNA_F

ClientSampleId :

TR-05-01132025

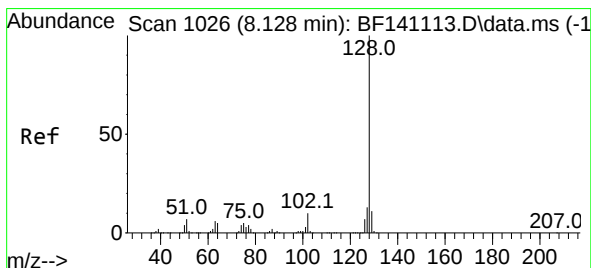
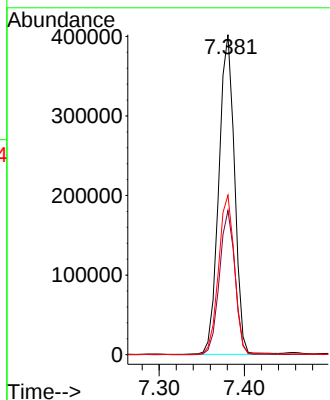
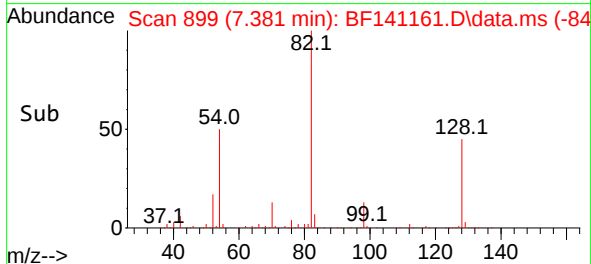


Tgt Ion: 82 Resp: 516579
Ion Ratio Lower Upper
82 100
128 45.1 36.1 54.1
54 49.8 41.0 61.4

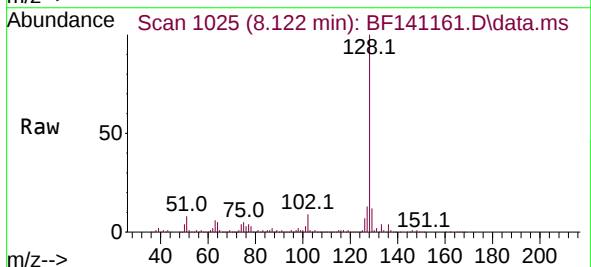
Manual Integrations

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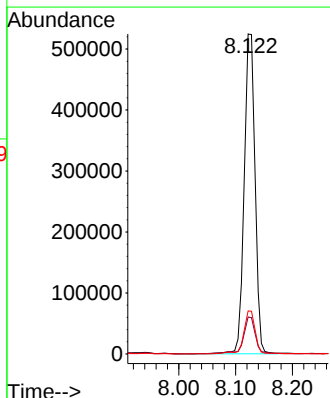
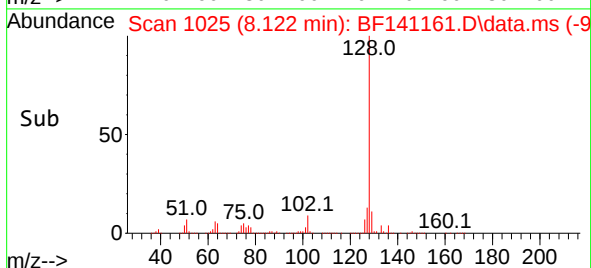
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025

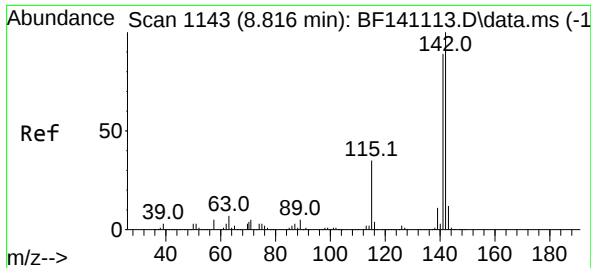


#31
Naphthalene
Concen: 26.910 ng
RT: 8.122 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08



Tgt Ion:128 Resp: 694409
Ion Ratio Lower Upper
128 100
129 11.5 9.0 13.6
127 13.4 10.8 16.2





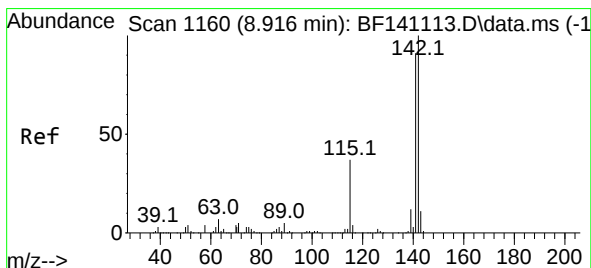
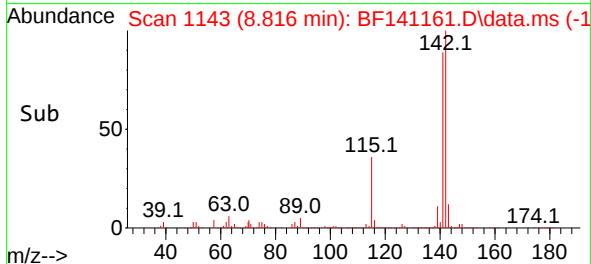
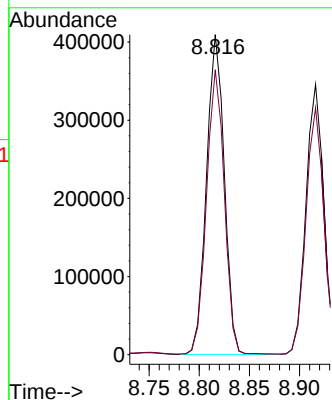
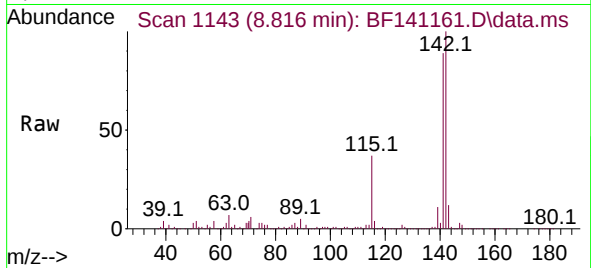
#37
2-Methylnaphthalene
Concen: 30.797 ng
RT: 8.816 min Scan# 1143
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Instrument :
BNA_F
ClientSampleId :
TR-05-01132025

Tgt Ion:142 Resp: 506408
Ion Ratio Lower Upper
142 100
141 89.1 71.3 106.9

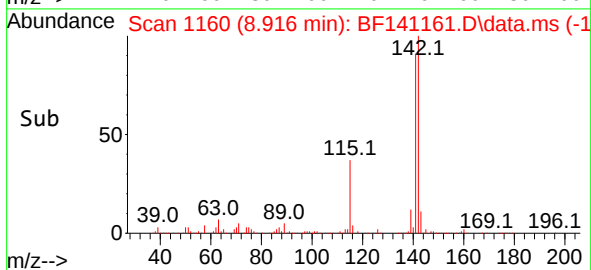
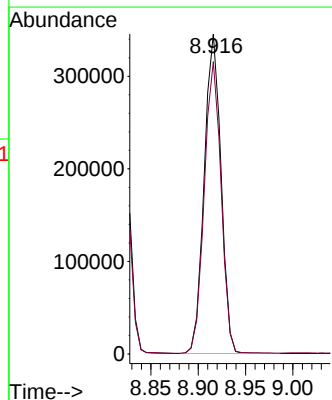
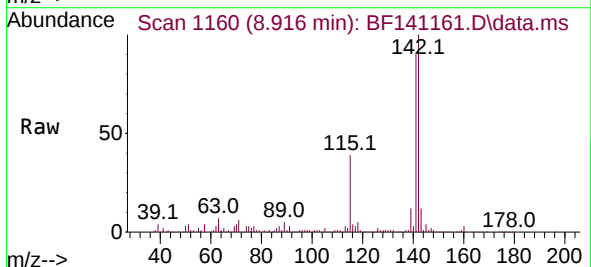
Manual Integrations
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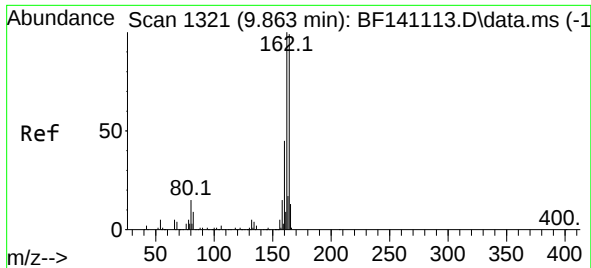
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025



#38
1-Methylnaphthalene
Concen: 26.116 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Tgt Ion:142 Resp: 423230
Ion Ratio Lower Upper
142 100
141 91.4 73.1 109.7





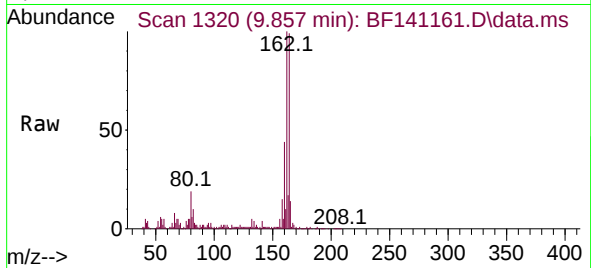
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Instrument :

BNA_F

ClientSampleId :

TR-05-01132025



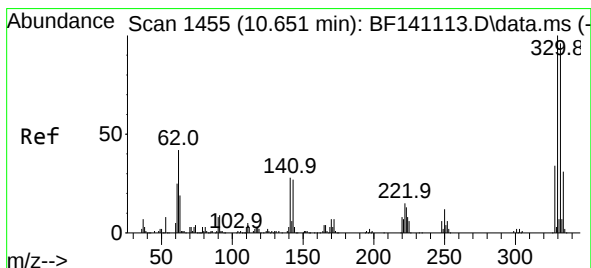
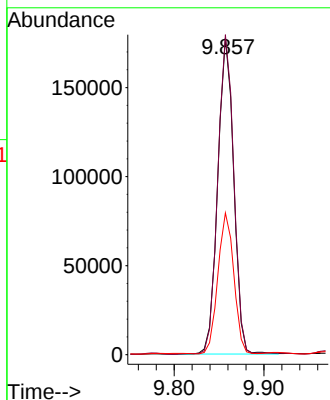
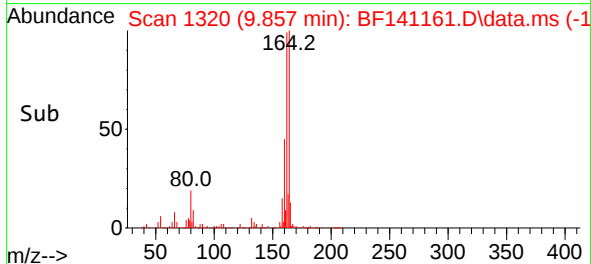
Tgt Ion:164 Resp: 219550
Ion Ratio Lower Upper
164 100
162 101.1 81.0 121.4
160 44.8 36.1 54.1

Manual Integrations

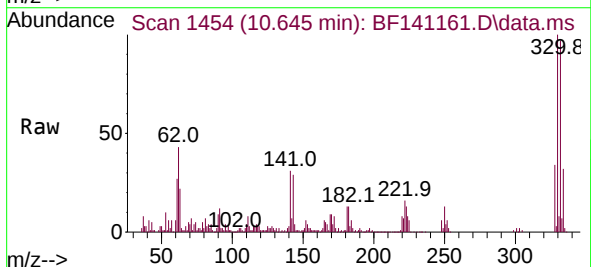
APPROVED

Reviewed By :Yogesh Patel 01/15/2025

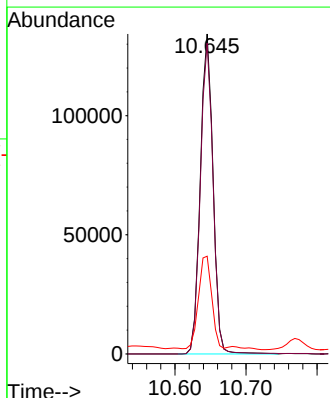
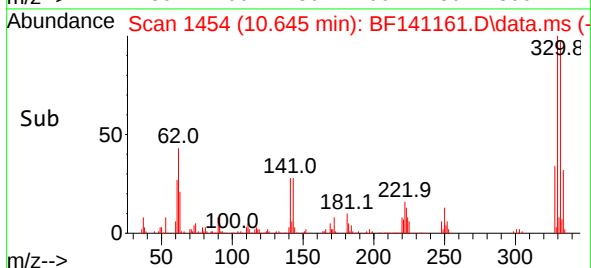
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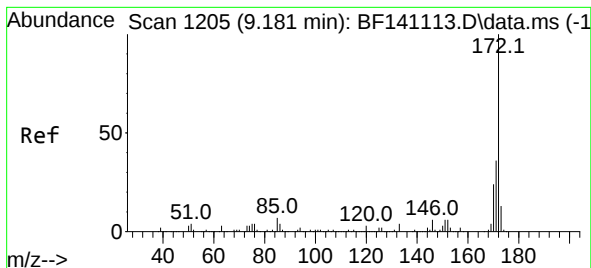


#42
2,4,6-Tribromophenol
Concen: 66.974 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08



Tgt Ion:330 Resp: 167544
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 30.0 25.2 37.8





#45

2-Fluorobiphenyl

Concen: 58.639 ng

RT: 9.181 min Scan# 1205

Delta R.T. 0.000 min

Lab File: BF141161.D

Acq: 14 Jan 2025 22:08

Instrument :

BNA_F

ClientSampleId :

TR-05-01132025

Tgt Ion:172 Resp: 843075

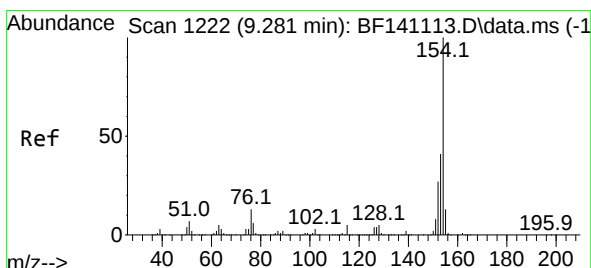
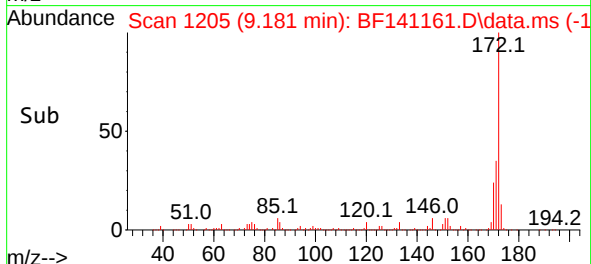
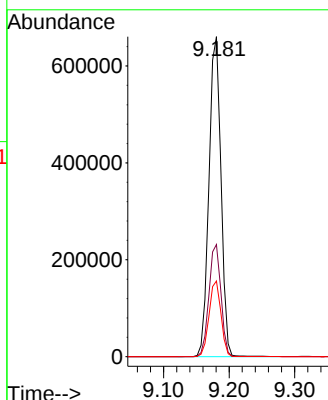
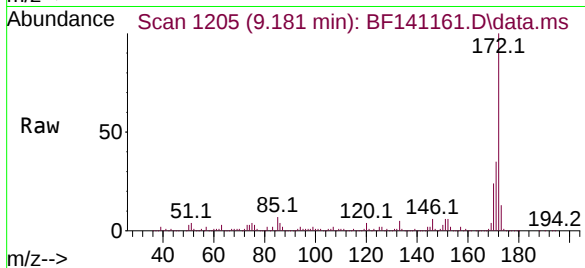
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.7	43.1
170	23.7	19.0	28.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 01/15/2025



#46

1,1'-Biphenyl

Concen: 6.612 ng

RT: 9.281 min Scan# 1222

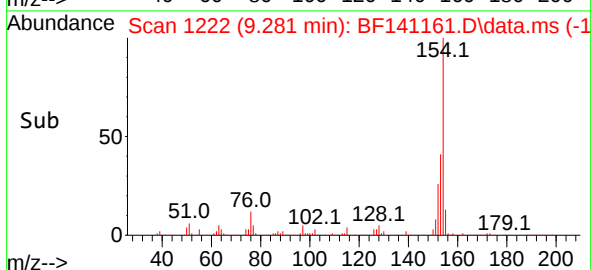
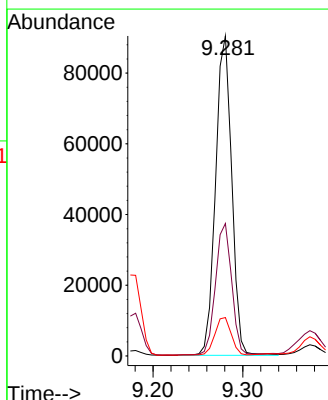
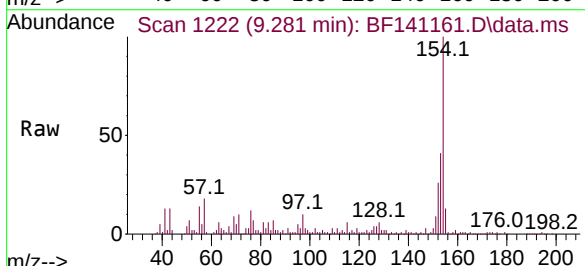
Delta R.T. 0.000 min

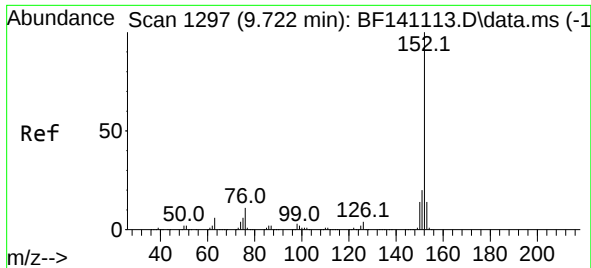
Lab File: BF141161.D

Acq: 14 Jan 2025 22:08

Tgt Ion:154 Resp: 112729

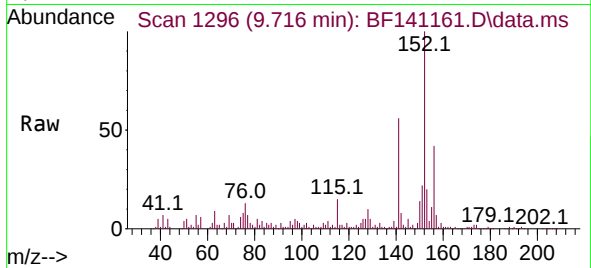
Ion	Ratio	Lower	Upper
154	100		
153	41.4	20.7	60.7
76	12.0	0.0	33.1





#49
Acenaphthylene
Concen: 6.740 ng
RT: 9.716 min Scan# 1297
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

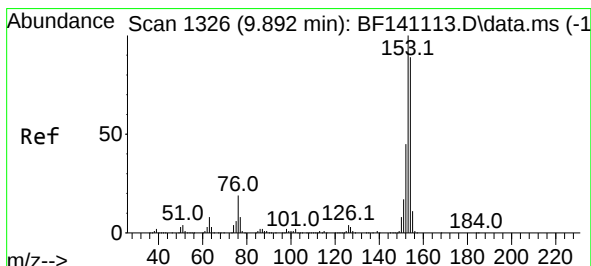
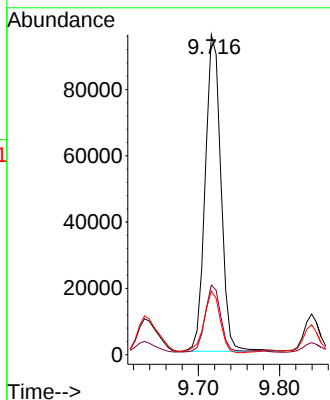
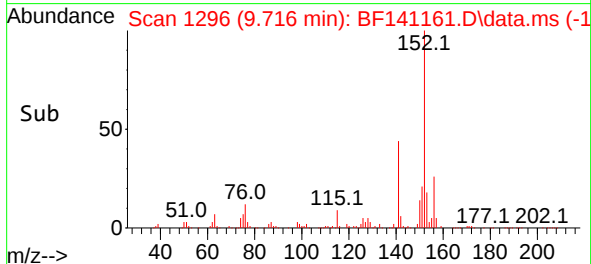
Instrument :
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TR-05-01132025



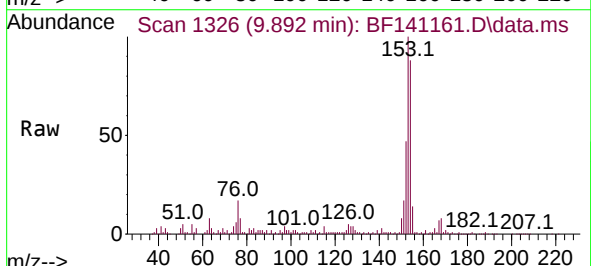
Tgt Ion:152 Resp: 12787
Ion Ratio Lower Upper
152 100
151 21.7 16.1 24.1
153 19.9 11.1 16.7

Manual Integrations
APPROVED

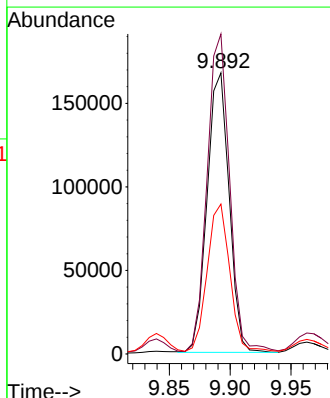
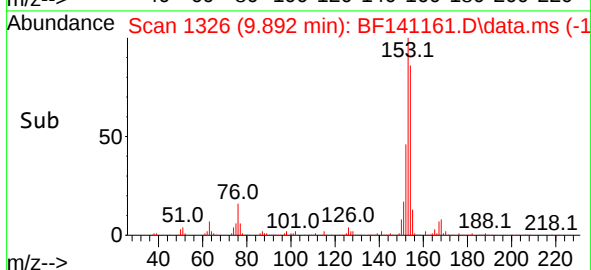
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025

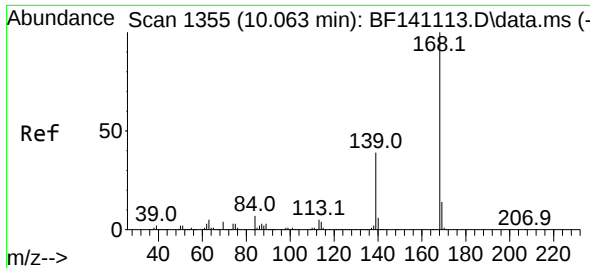


#52
Acenaphthene
Concen: 15.927 ng
RT: 9.892 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08



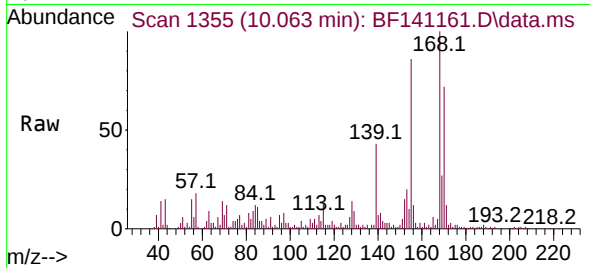
Tgt Ion:154 Resp: 211122
Ion Ratio Lower Upper
154 100
153 113.8 89.8 134.6
152 53.3 40.8 61.2





#55
Dibenzenofuran
Concen: 4.321 ng
RT: 10.063 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

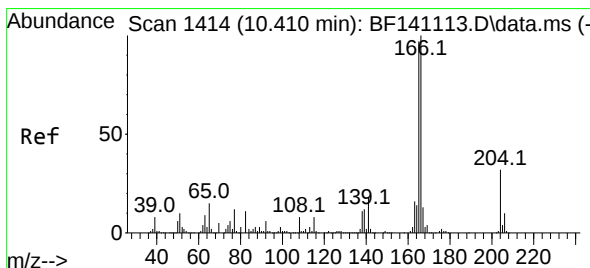
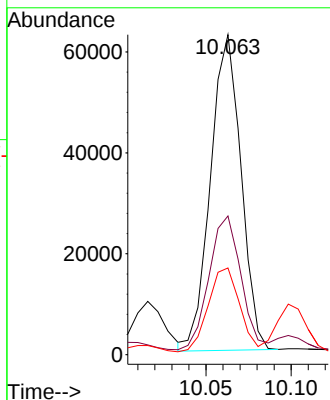
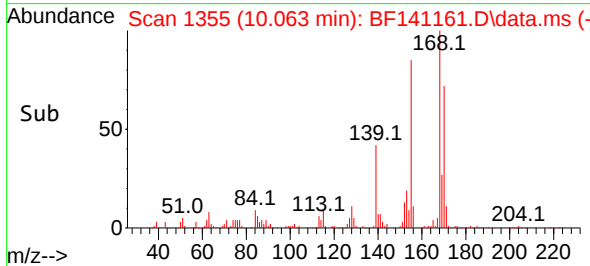
Instrument :
BNA_F
ClientSampleId :
TR-05-01132025



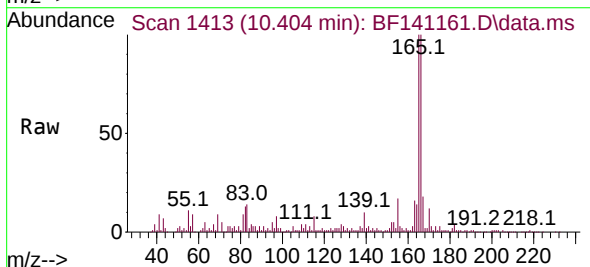
Tgt Ion:168 Resp: 77910
Ion Ratio Lower Upper
168 100
139 43.3 31.4 47.0
169 27.1 10.9 16.3

Manual Integrations
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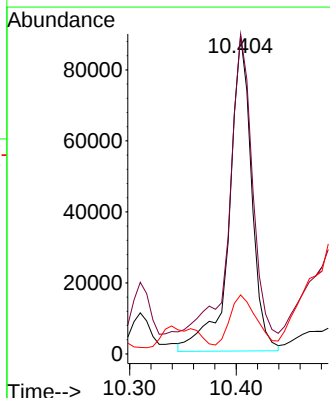
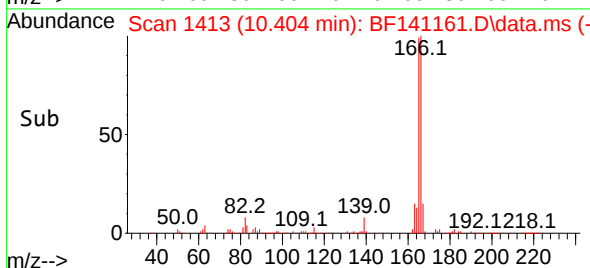
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025

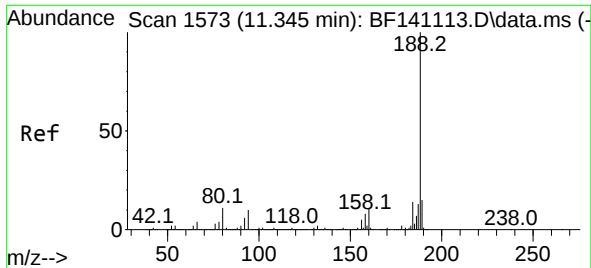


#58
Fluorene
Concen: 9.285 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08



Tgt Ion:166 Resp: 130067
Ion Ratio Lower Upper
166 100
165 100.5 77.8 116.8
167 18.5 10.8 16.2





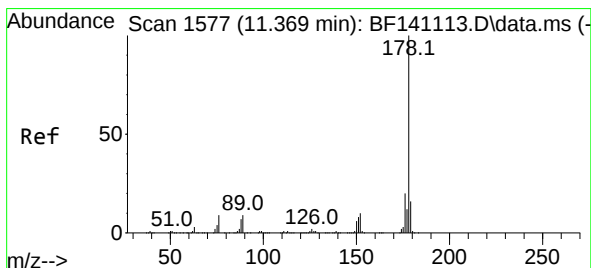
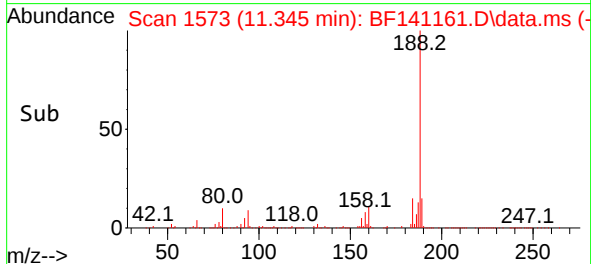
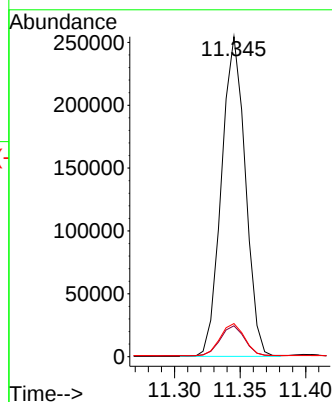
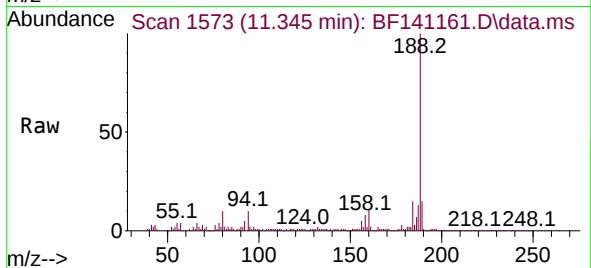
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Instrument :
BNA_F
ClientSampleId :
TR-05-01132025

Tgt Ion:188 Resp: 321559
Ion Ratio Lower Upper
188 100
94 9.6 8.3 12.5
80 10.4 9.0 13.4

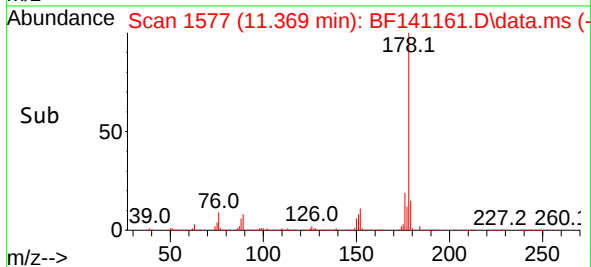
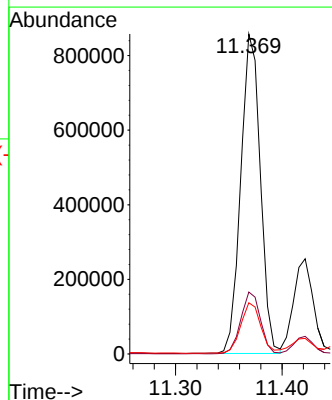
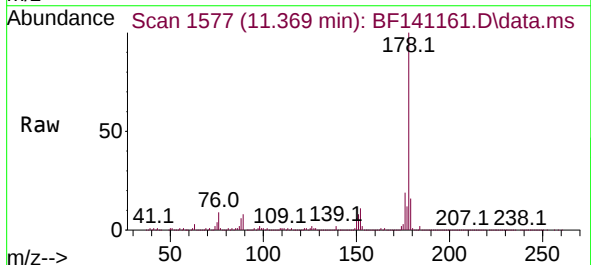
Manual Integrations
APPROVED

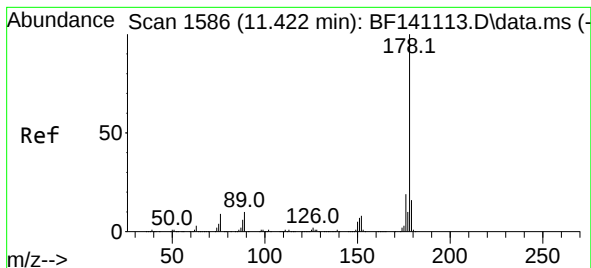
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025



#71
Phenanthrene
Concen: 63.513 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

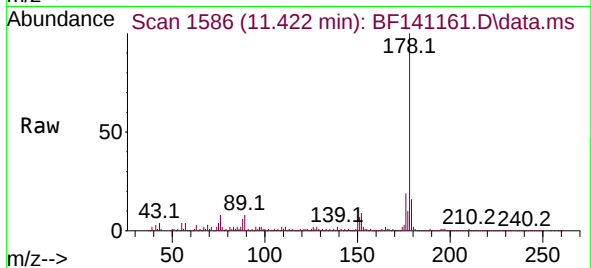
Tgt Ion:178 Resp: 1096457
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 16.0 12.6 19.0





#72
 Anthracene
 Concen: 18.739 ng
 RT: 11.422 min Scan# 1586
 Delta R.T. 0.000 min
 Lab File: BF141161.D
 Acq: 14 Jan 2025 22:08

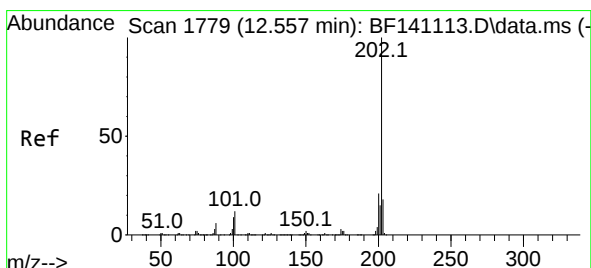
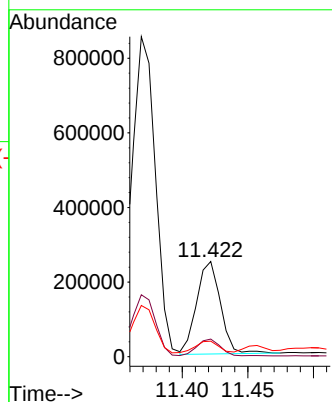
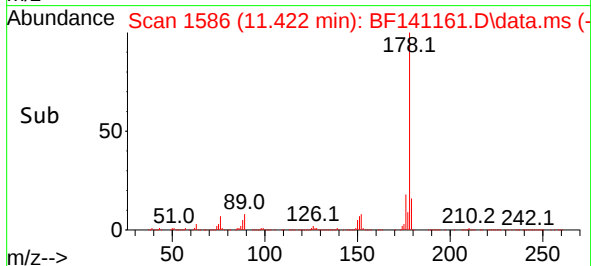
Instrument :
 BNA_F
 ClientSampleId :
 TR-05-01132025



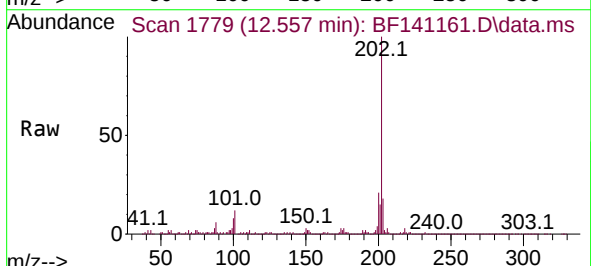
Tgt Ion:178 Resp: 314550
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 16.3 12.6 19.0

Manual Integrations
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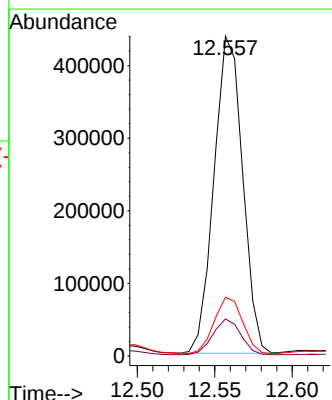
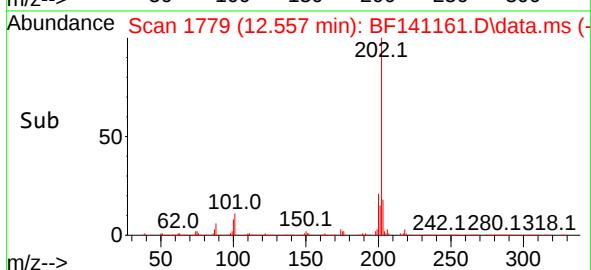
Reviewed By :Yogesh Patel 01/15/2025
 Supervised By :Jagrut Upadhyay 01/15/2025

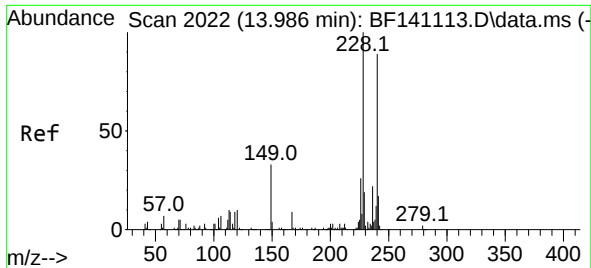


#75
 Fluoranthene
 Concen: 32.565 ng
 RT: 12.557 min Scan# 1779
 Delta R.T. 0.000 min
 Lab File: BF141161.D
 Acq: 14 Jan 2025 22:08



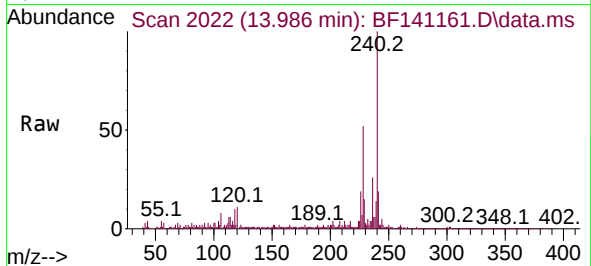
Tgt Ion:202 Resp: 561009
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 32.3
 203 18.4 0.0 37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

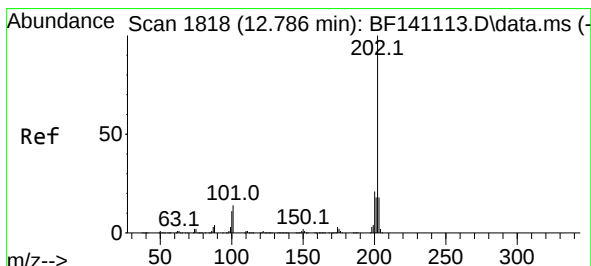
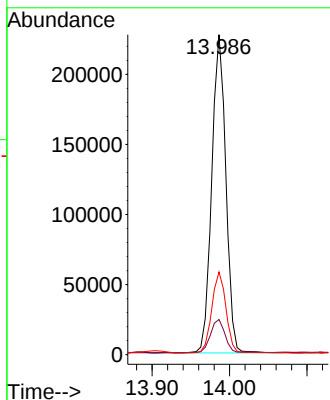
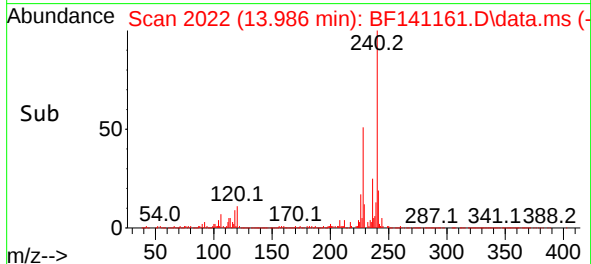
Instrument :
BNA_F
ClientSampleId :
TR-05-01132025



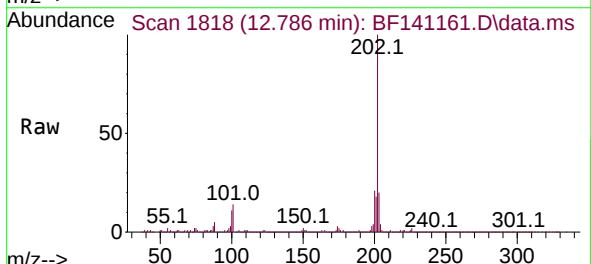
Tgt Ion:240 Resp: 288360
Ion Ratio Lower Upper
240 100
120 11.0 9.1 13.7
236 25.8 19.8 29.6

Manual Integrations
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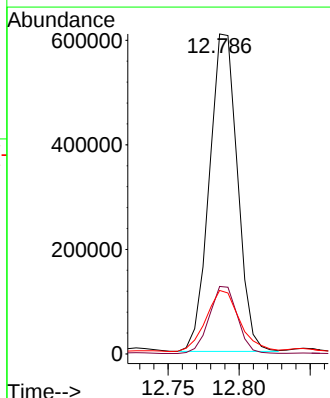
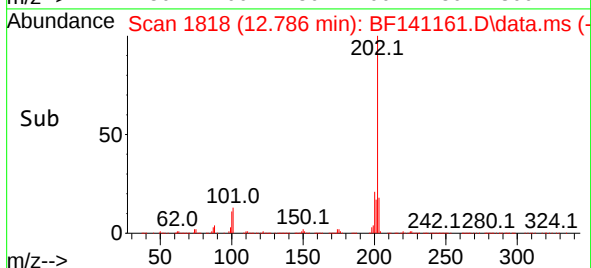
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025

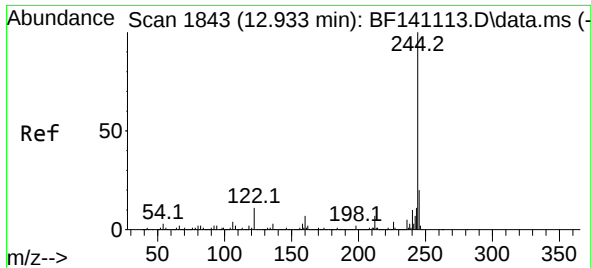


#78
Pyrene
Concen: 30.355 ng
RT: 12.786 min Scan# 1818
Delta R.T. 0.000 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08



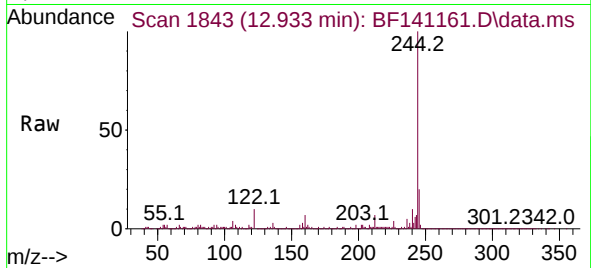
Tgt Ion:202 Resp: 836049
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 19.9 14.3 21.5





#79
 Terphenyl-d14
 Concen: 41.481 ng
 RT: 12.933 min Scan# 1843
 Delta R.T. 0.000 min
 Lab File: BF141161.D
 Acq: 14 Jan 2025 22:08

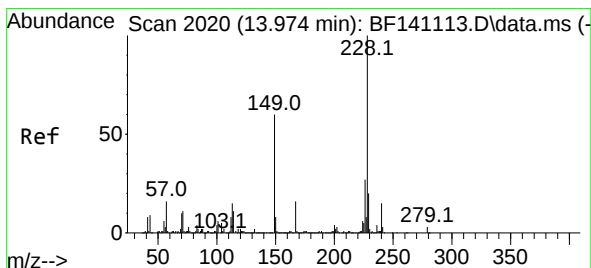
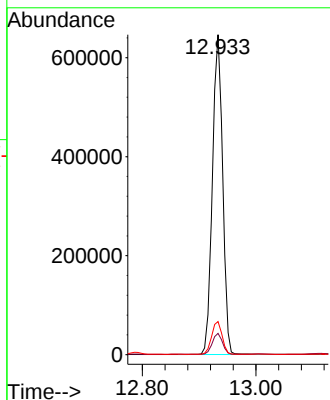
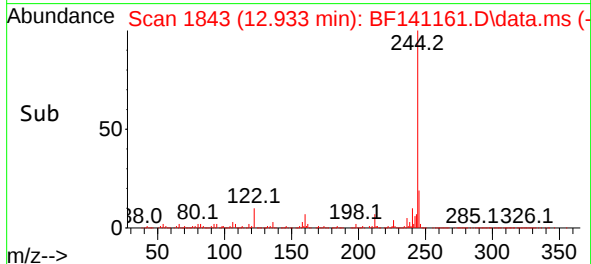
Instrument :
 BNA_F
 ClientSampleId :
 TR-05-01132025



Tgt Ion:244 Resp: 804780
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.2
 122 10.4 8.8 13.2

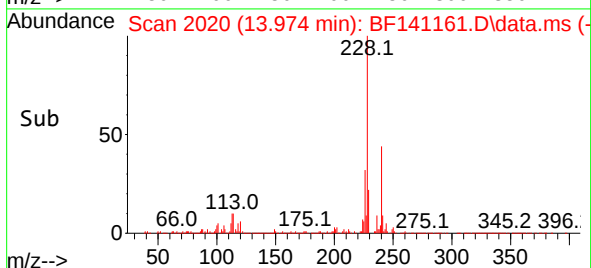
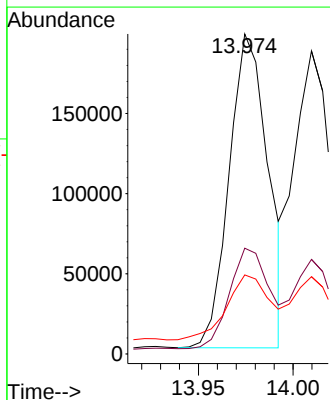
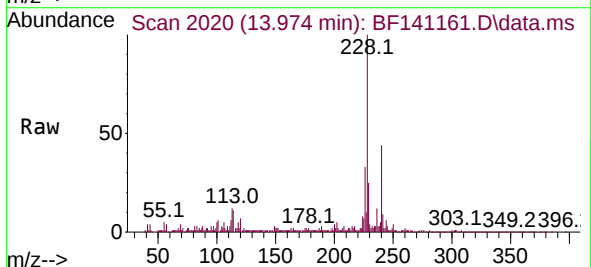
Manual Integrations
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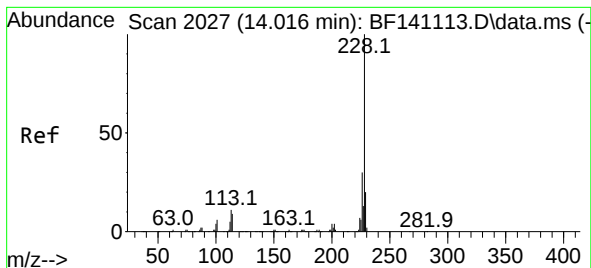
Reviewed By :Yogesh Patel 01/15/2025
 Supervised By :Jagrut Upadhyay 01/15/2025



#81
 Benzo(a)anthracene
 Concen: 14.292 ng
 RT: 13.974 min Scan# 2020
 Delta R.T. 0.000 min
 Lab File: BF141161.D
 Acq: 14 Jan 2025 22:08

Tgt Ion:228 Resp: 280465
 Ion Ratio Lower Upper
 228 100
 226 33.1 21.7 32.5#
 229 24.7 15.7 23.5#





#83

Chrysene

Concen: 13.728 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF141161.D

Acq: 14 Jan 2025 22:08

Instrument :

BNA_F

ClientSampleId :

TR-05-01132025

Tgt Ion:228 Resp: 252080

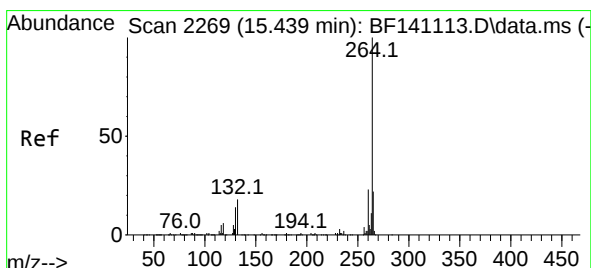
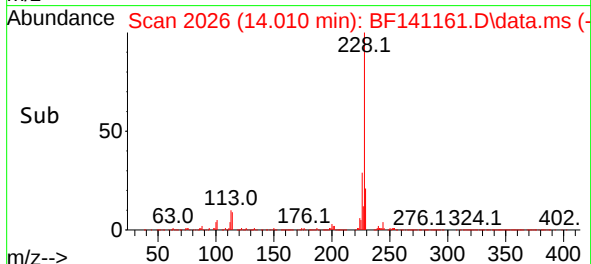
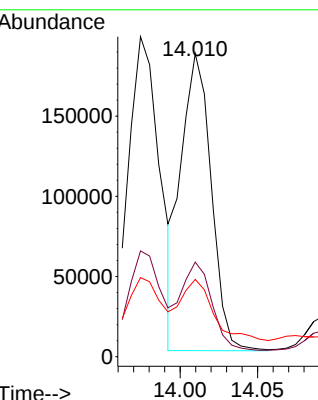
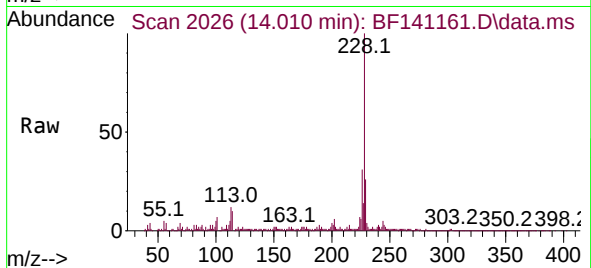
Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.8	35.8
229	25.5	15.8	23.8

Manual Integrations

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Reviewed By :Yogesh Patel 01/15/2025

Supervised By :Jagrut Upadhyay 01/15/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.445 min Scan# 2270

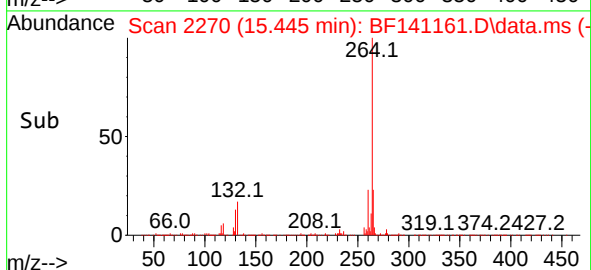
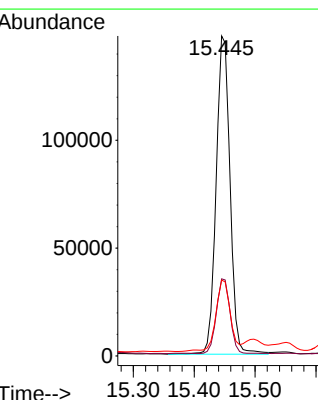
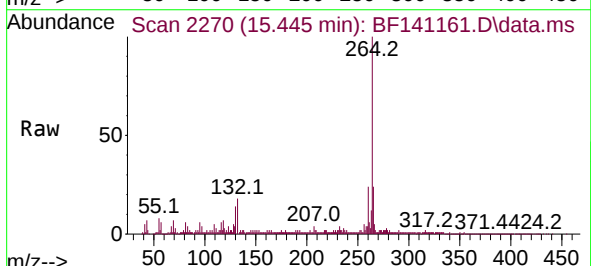
Delta R.T. 0.006 min

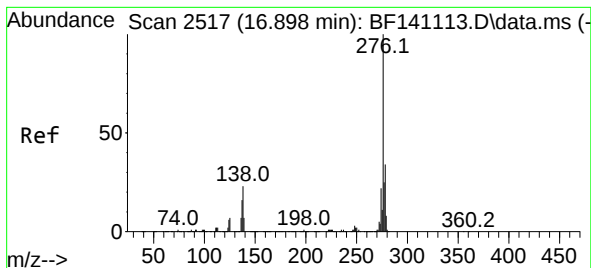
Lab File: BF141161.D

Acq: 14 Jan 2025 22:08

Tgt Ion:264 Resp: 233396

Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.6	28.0
265	23.7	17.4	26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.447 ng m

RT: 16.898 min Scan# 2517

Delta R.T. 0.000 min

Lab File: BF141161.D

Acq: 14 Jan 2025 22:08

Instrument :

BNA_F

ClientSampleId :

TR-05-01132025

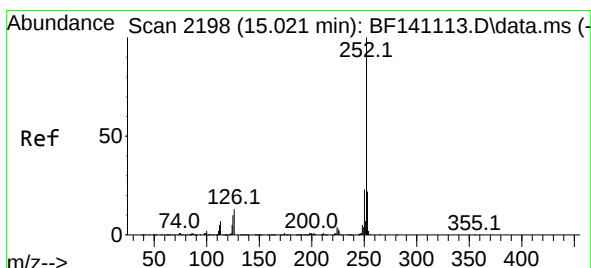
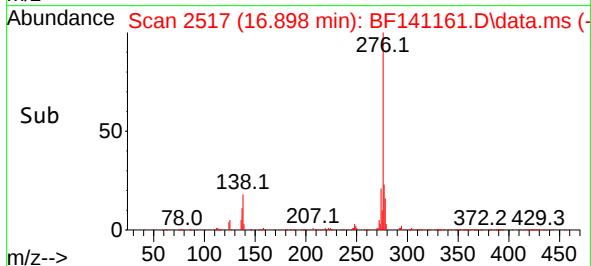
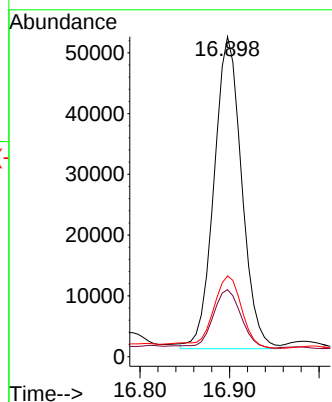
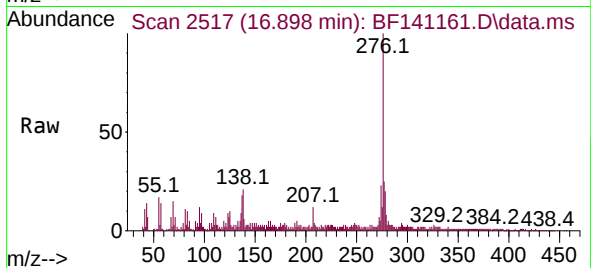
Tgt Ion:276 Resp: 11023
 Ion Ratio Lower Upper
 276 100
 138 4.9 20.7 31.1
 277 5.1 20.6 30.8

Manual Integrations

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Reviewed By :Yogesh Patel 01/15/2025

Supervised By :Jagrut Upadhyay 01/15/2025



#88

Benzo(b)fluoranthene

Concen: 14.790 ng m

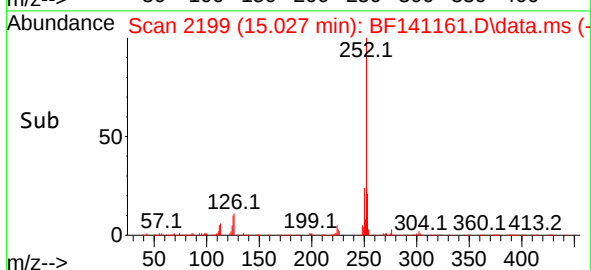
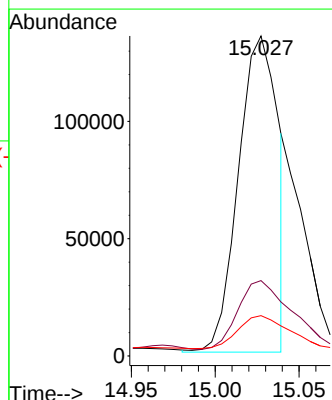
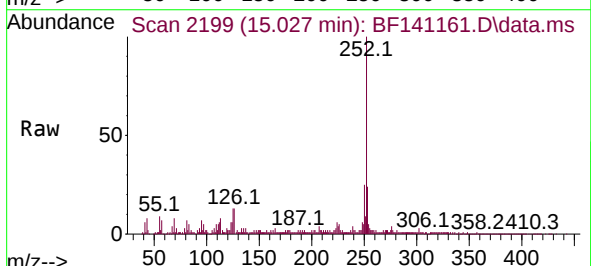
RT: 15.027 min Scan# 2199

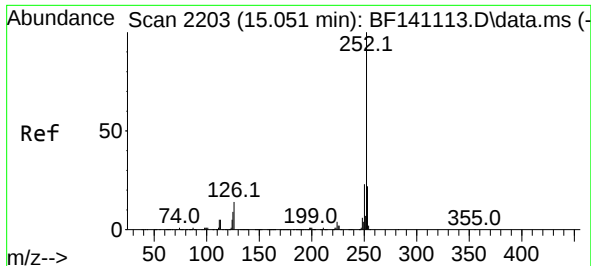
Delta R.T. 0.006 min

Lab File: BF141161.D

Acq: 14 Jan 2025 22:08

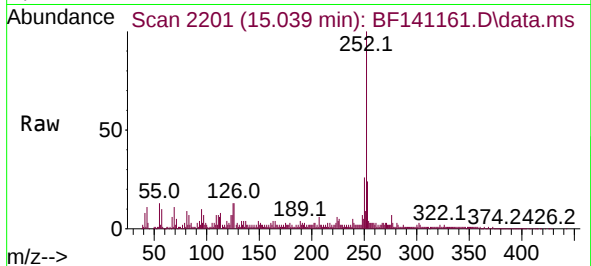
Tgt Ion:252 Resp: 222591
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.8 26.6
 125 12.6 8.1 12.1





#89
Benzo(k)fluoranthene
Concen: 5.873 ng m
RT: 15.039 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

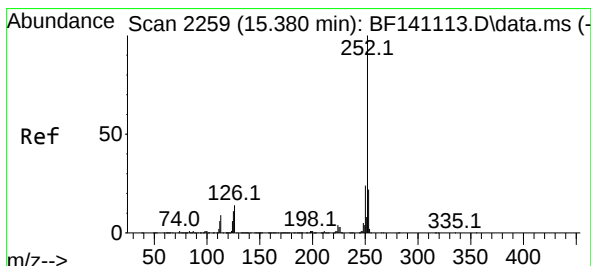
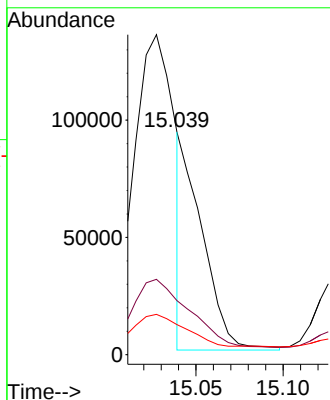
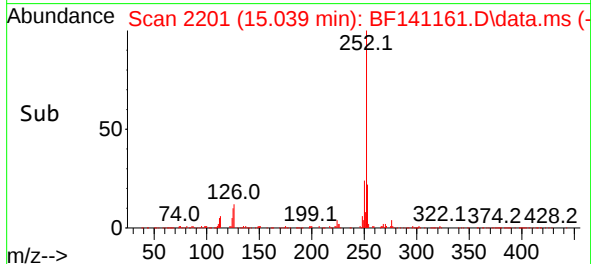
Instrument :
BNA_F
ClientSampleId :
TR-05-01132025



Tgt Ion:252 Resp: 74694
Ion Ratio Lower Upper
252 100
253 24.3 17.8 26.8
125 13.5 7.9 11.9

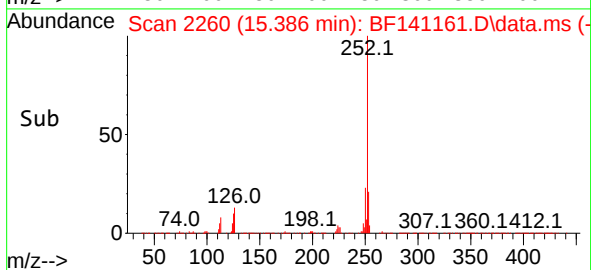
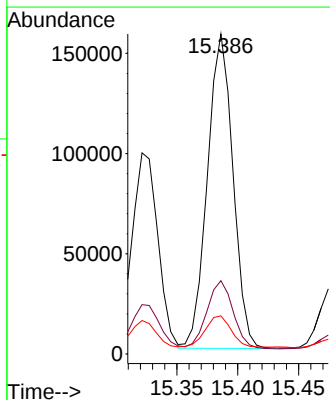
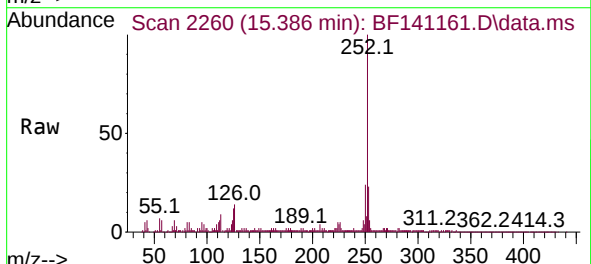
Manual Integrations
APPROVED

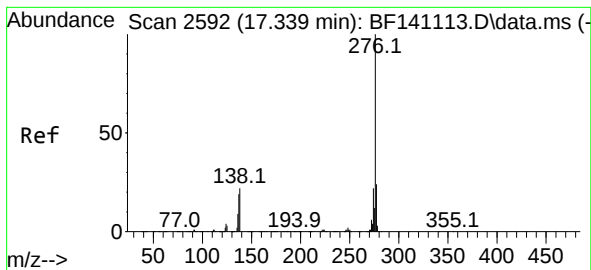
Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Jagrut Upadhyay 01/15/2025



#90
Benzo(a)pyrene
Concen: 18.497 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141161.D
Acq: 14 Jan 2025 22:08

Tgt Ion:252 Resp: 229685
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 11.9 9.1 13.7





#92

Benzo(g,h,i)perylene

Concen: 8.668 ng

RT: 17.339 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF141161.D

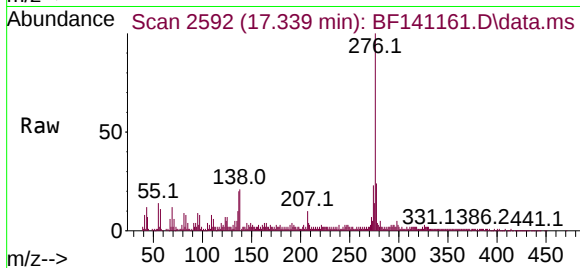
Acq: 14 Jan 2025 22:08

Instrument :

BNA_F

ClientSampleId :

TR-05-01132025



Tgt Ion:276 Resp: 124689

Ion Ratio Lower Upper

276 100

277 24.4 19.0 28.4

138 21.3 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/15/2025

Supervised By :Jagrut Upadhyay 01/15/2025

