

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012025\
 Data File : BF141224.D
 Acq On : 20 Jan 2025 15:58
 Operator : RC/JU
 Sample : Q1132-04 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-2-011725

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/21/2025
 Supervised By :mohammad ahmed 01/21/2025

Quant Time: Jan 20 16:18:22 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	6.810	152	156614	20.000	ng	-0.01
21) Naphthalene-d8	8.092	136	584725	20.000	ng	-0.01
39) Acenaphthene-d10	9.845	164	264991	20.000	ng	-0.02
64) Phenanthrene-d10	11.327	188	358268	20.000	ng	-0.02
76) Chrysene-d12	13.974	240	315369	20.000	ng	-0.01
86) Perylene-d12	15.433	264	272616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	179219	17.678	ng	-0.01
7) Phenol-d6	6.434	99	219854	17.120	ng	-0.01
23) Nitrobenzene-d5	7.369	82	133626	12.114	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	45120	14.943	ng	-0.02
45) 2-Fluorobiphenyl	9.163	172	252769	14.566	ng	-0.02
79) Terphenyl-d14	12.916	244	206524	9.733	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.116	128	263052	8.531	ng	98
37) 2-Methylnaphthalene	8.804	142	183344	9.331	ng	100
38) 1-Methylnaphthalene	8.904	142	144663	7.470	ng	100
46) 1,1'-Biphenyl	9.263	154	43662	2.122	ng	100
52) Acenaphthene	9.875	154	120479	7.530	ng	99
55) Dibenzofuran	10.045	168	142547	6.550	ng	# 96
58) Fluorene	10.392	166	237761	14.063	ng	99
71) Phenanthrene	11.357	178	1332913	69.299	ng	99
72) Anthracene	11.404	178	393222	21.025	ng	99
73) Carbazole	11.557	167	97621	5.693	ng	100
75) Fluoranthene	12.545	202	1089046	56.739	ng	99
78) Pyrene	12.774	202	1001611	33.252	ng	99
81) Benzo(a)anthracene	13.963	228	500021	23.297	ng	96
83) Chrysene	13.998	228	375149	18.680	ng	97
87) Indeno(1,2,3-cd)pyrene	16.874	276	143913m	7.206	ng	
88) Benzo(b)fluoranthene	15.015	252	382750m	21.773	ng	
89) Benzo(k)fluoranthene	15.027	252	149219m	10.044	ng	
90) Benzo(a)pyrene	15.374	252	298518	20.582	ng	99
91) Dibenzo(a,h)anthracene	16.886	278	35697	2.210	ng	# 88
92) Benzo(g,h,i)perylene	17.309	276	126507	7.529	ng	98

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

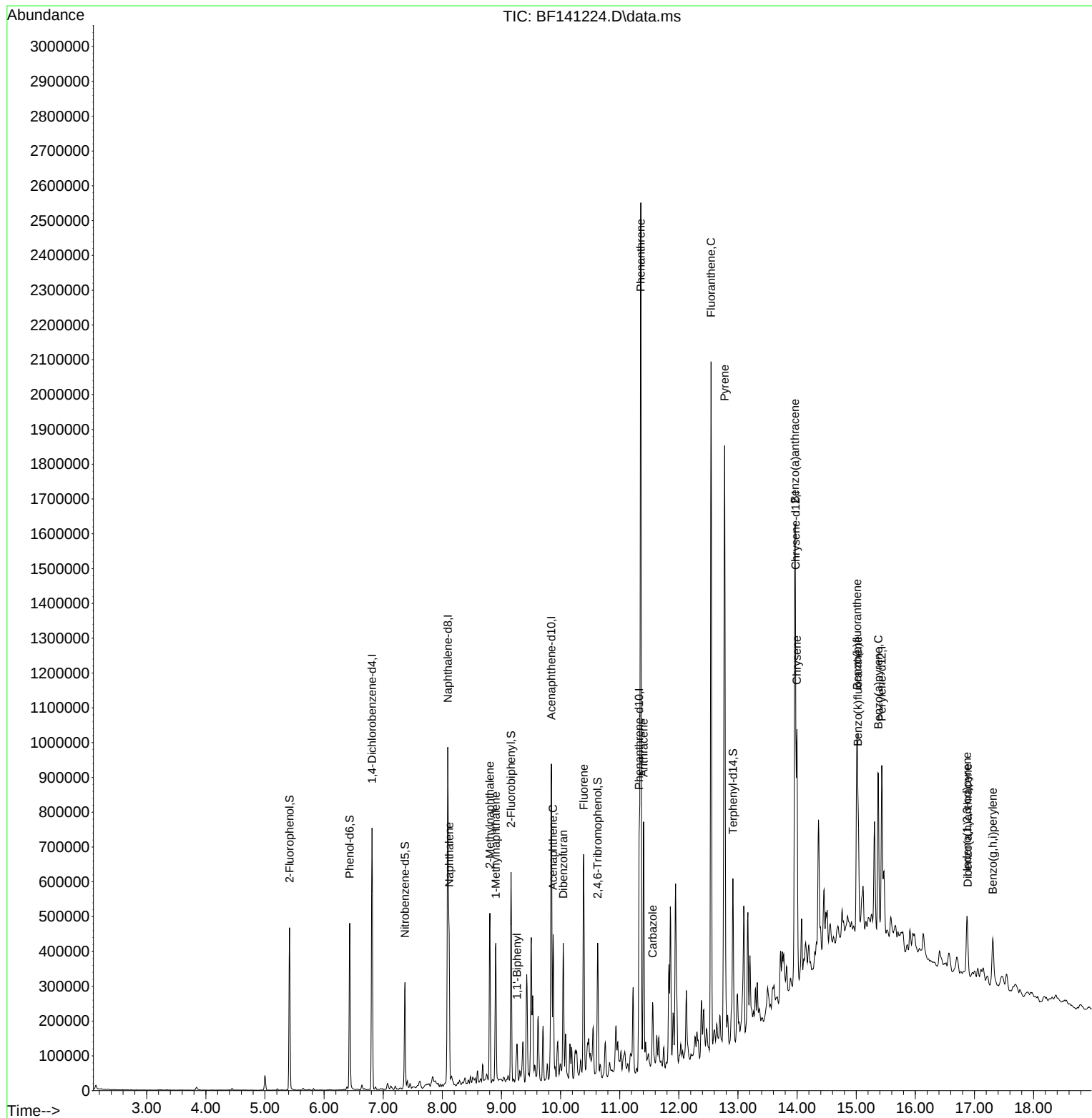
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012025\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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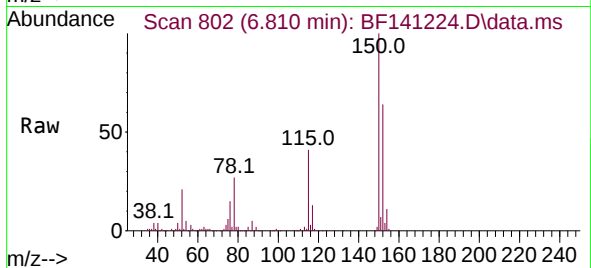
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.810 min Scan# 802
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

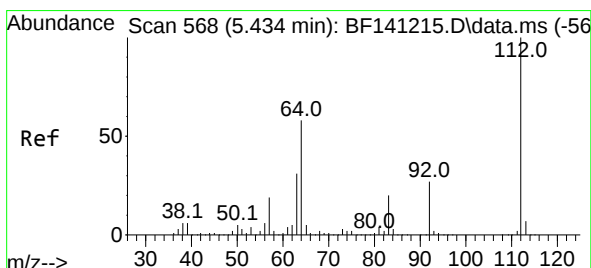
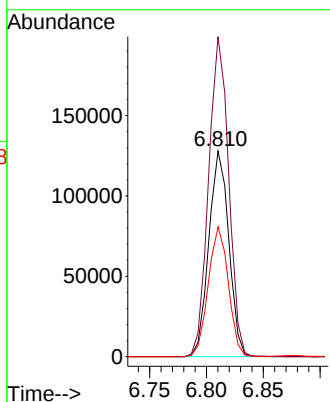
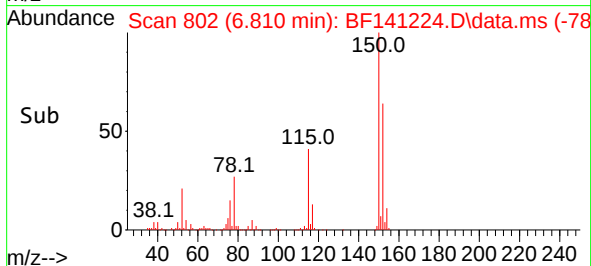
Instrument :
BNA_F
ClientSampleId :
HD-2-011725



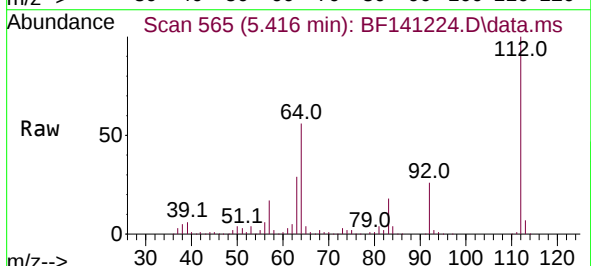
Tgt Ion:152 Resp: 156614
Ion Ratio Lower Upper
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150 155.7 125.8 188.8
115 63.1 51.4 77.2

Manual Integrations
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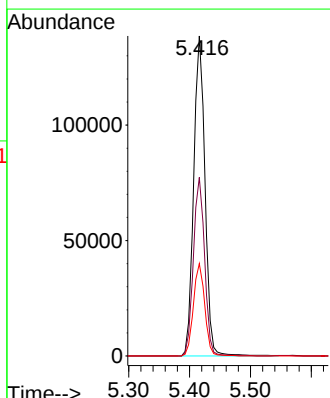
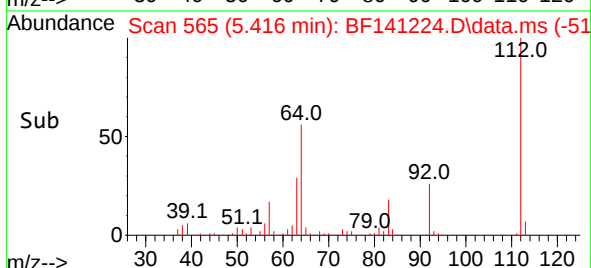
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025

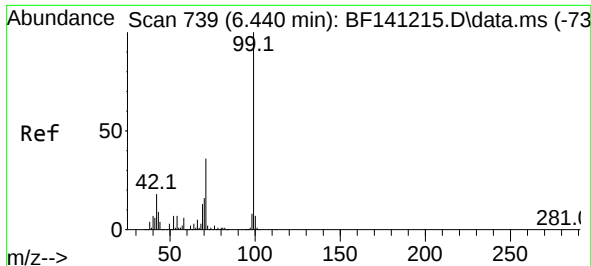


#5
2-Fluorophenol
Concen: 17.678 ng
RT: 5.416 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58



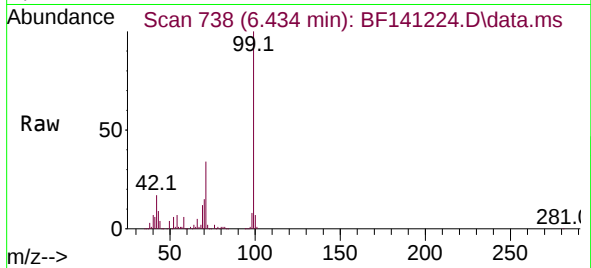
Tgt Ion:112 Resp: 179219
Ion Ratio Lower Upper
112 100
64 55.8 47.3 70.9
63 28.9 24.2 36.2





#7
Phenol-d6
Concen: 17.120 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

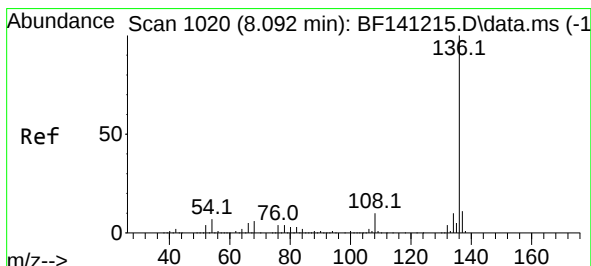
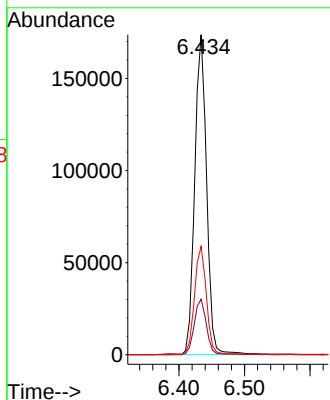
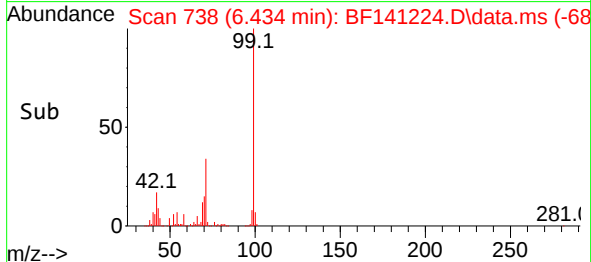
Instrument :
BNA_F
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HD-2-011725



Tgt Ion: 99 Resp: 219854
Ion Ratio Lower Upper
99 100
42 17.3 15.0 22.4
71 33.9 27.6 41.4

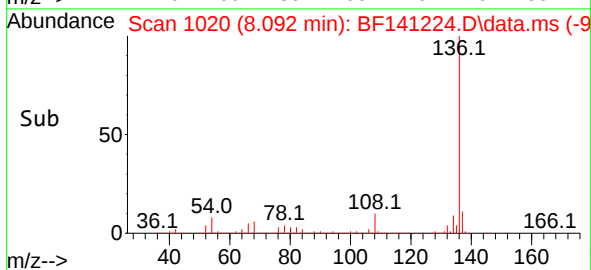
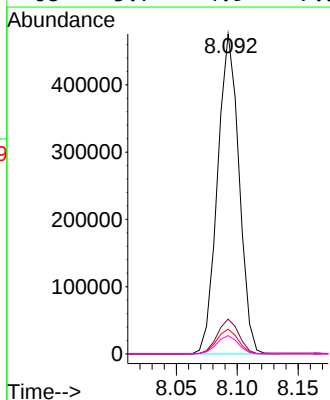
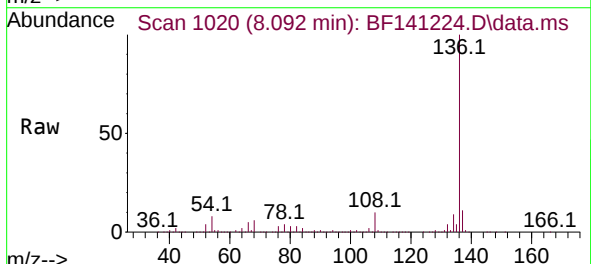
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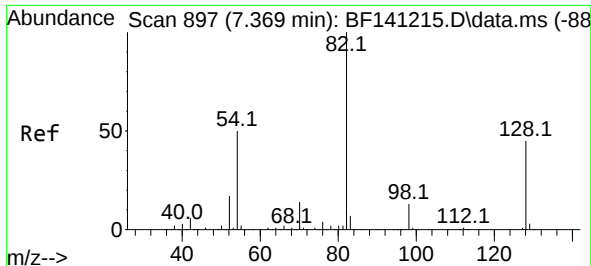
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.092 min Scan# 1020
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:136 Resp: 584725
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.7 6.3 9.5
68 5.7 4.9 7.3





#23
Nitrobenzene-d5
Concen: 12.114 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

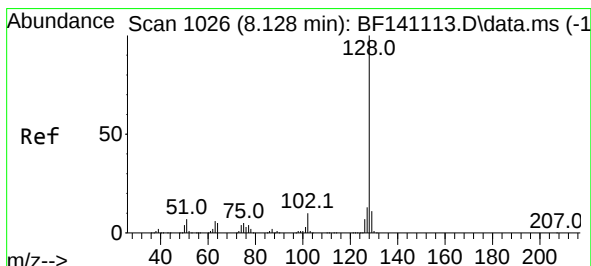
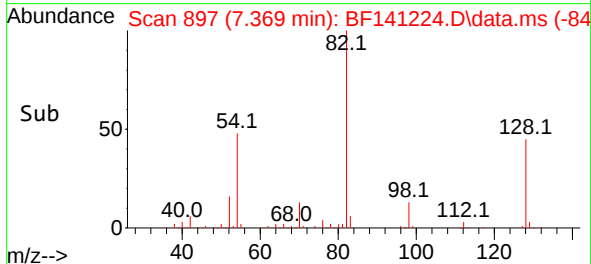
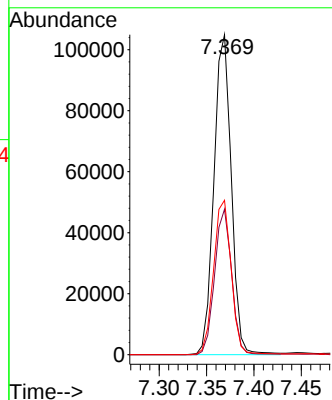
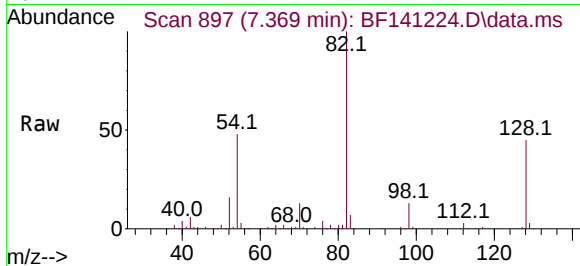
ClientSampleId :

HD-2-011725

Tgt Ion: 82 Resp: 133620
Ion Ratio Lower Upper
82 100
128 45.4 36.1 54.1
54 48.3 41.0 61.4

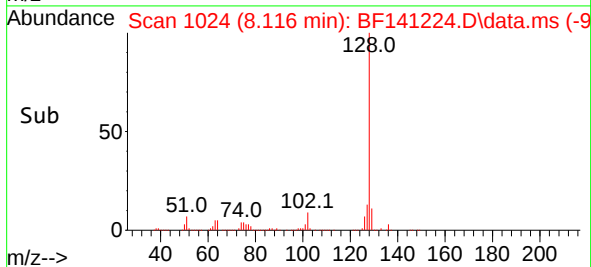
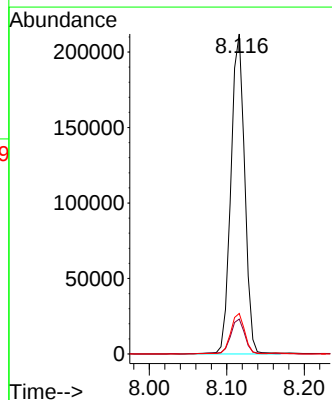
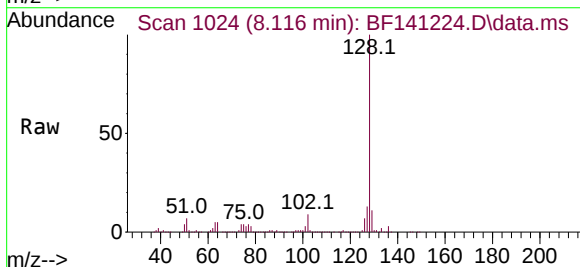
Manual Integrations
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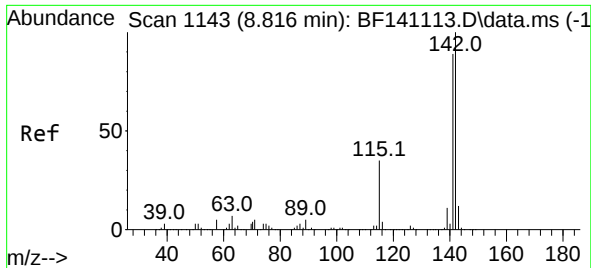
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025



#31
Naphthalene
Concen: 8.531 ng
RT: 8.116 min Scan# 1024
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:128 Resp: 263052
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 12.6 10.8 16.2





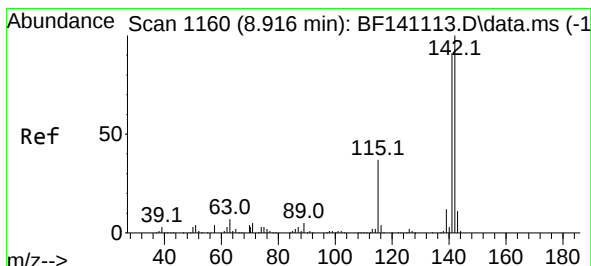
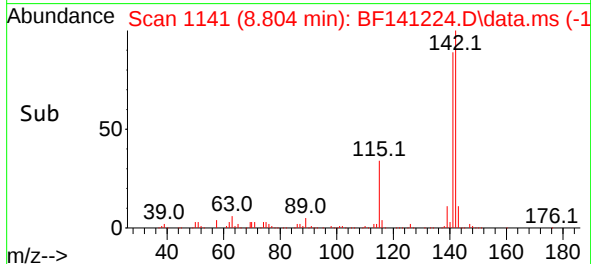
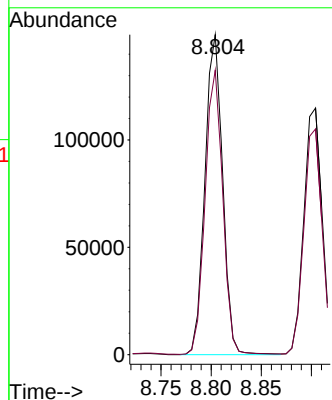
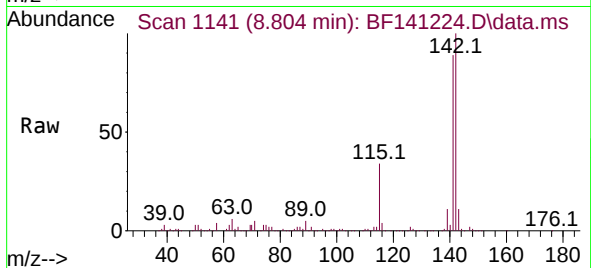
#37
2-Methylnaphthalene
Concen: 9.331 ng
RT: 8.804 min Scan# 1143
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Instrument :
BNA_F
ClientSampleId :
HD-2-011725

Tgt Ion:142 Resp: 18334
Ion Ratio Lower Upper
142 100
141 88.9 71.3 106.9

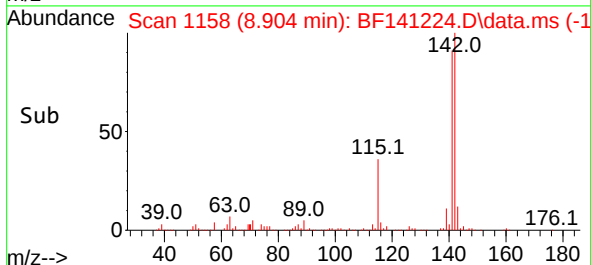
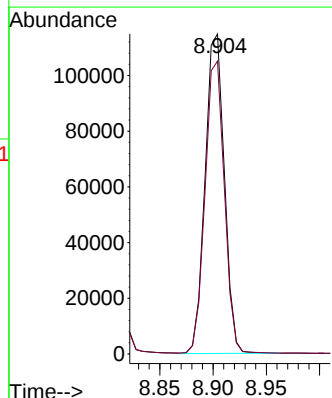
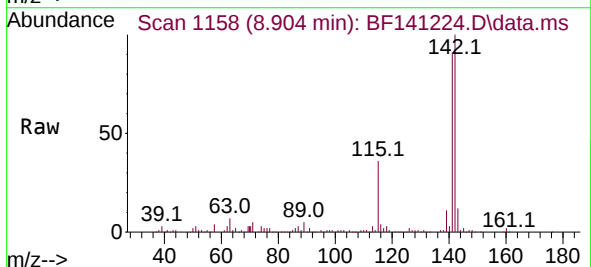
Manual Integrations
APPROVED

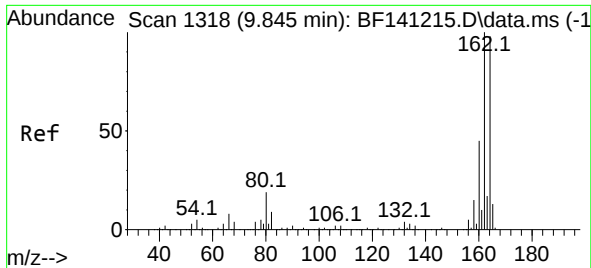
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025



#38
1-Methylnaphthalene
Concen: 7.470 ng
RT: 8.904 min Scan# 1158
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:142 Resp: 144663
Ion Ratio Lower Upper
142 100
141 91.5 73.1 109.7





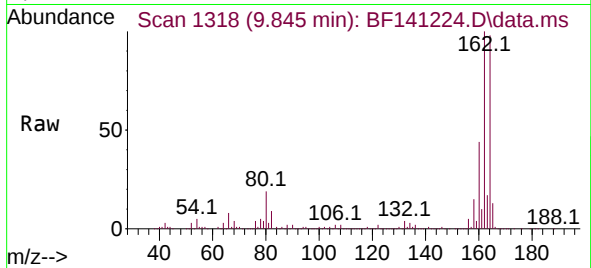
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.845 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725



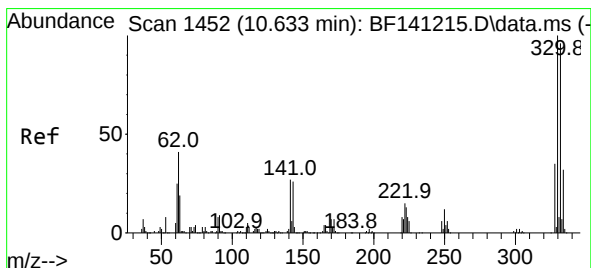
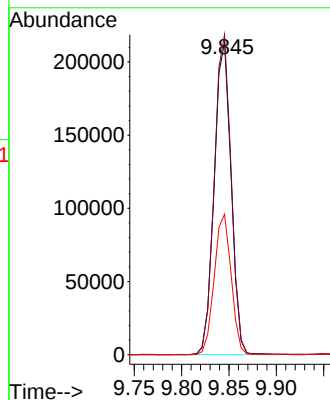
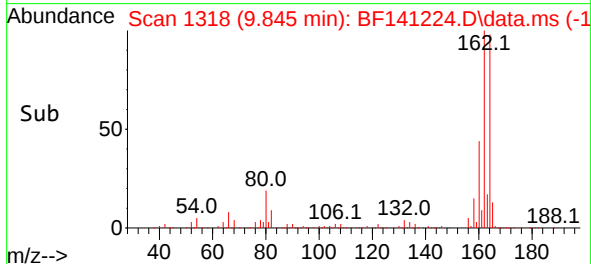
Tgt Ion:164 Resp: 26499
Ion Ratio Lower Upper
164 100
162 102.4 81.0 121.4
160 45.0 36.1 54.1

Manual Integrations

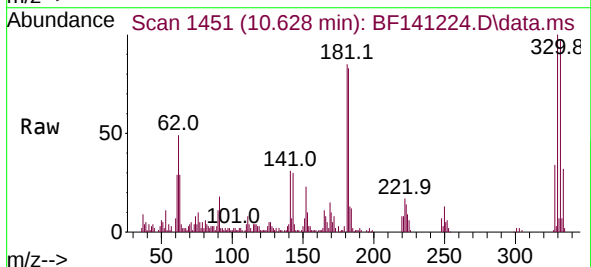
APPROVED

Reviewed By :Yogesh Patel 01/21/2025

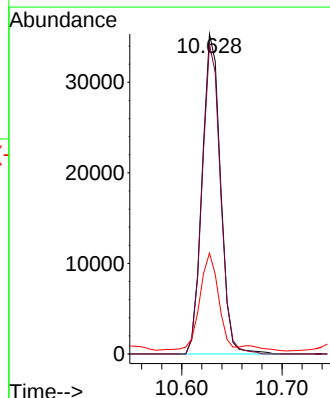
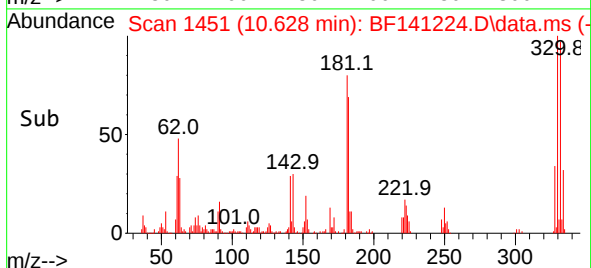
Supervised By :mohammad ahmed 01/21/2025

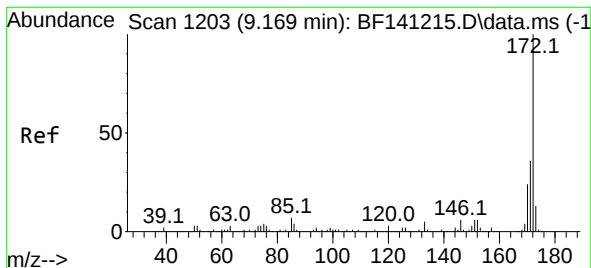


#42
2,4,6-Tribromophenol
Concen: 14.943 ng
RT: 10.628 min Scan# 1451
Delta R.T. -0.024 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58



Tgt Ion:330 Resp: 45120
Ion Ratio Lower Upper
330 100
332 96.7 76.9 115.3
141 30.9 25.2 37.8





#45

2-Fluorobiphenyl

Concen: 14.566 ng

RT: 9.163 min Scan# 1203

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

Tgt Ion:172 Resp: 252769

Ion Ratio Lower Upper

172 100

171 35.5 28.7 43.1

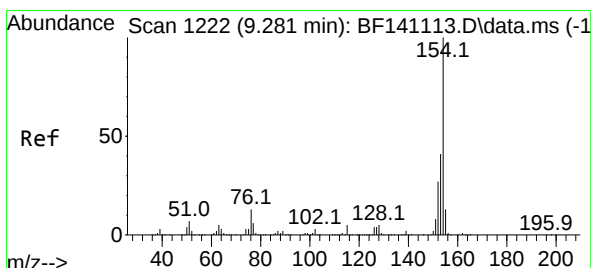
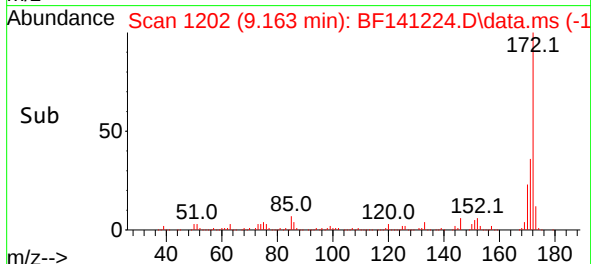
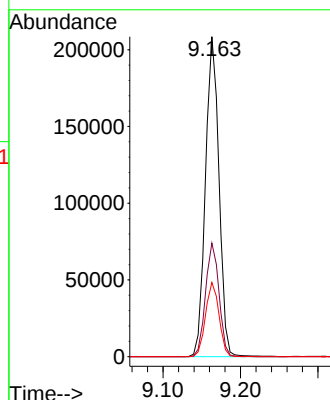
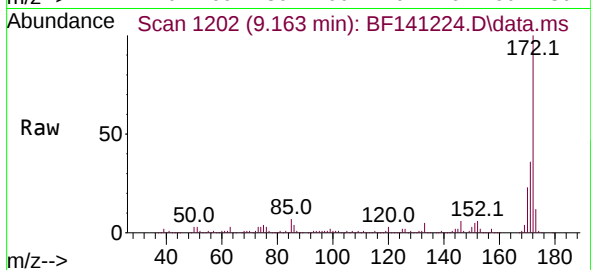
170 23.2 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/21/2025

Supervised By :mohammad ahmed 01/21/2025



#46

1,1'-Biphenyl

Concen: 2.122 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

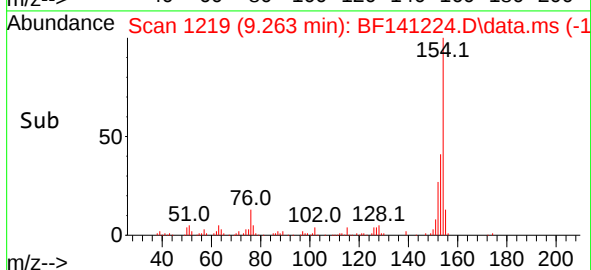
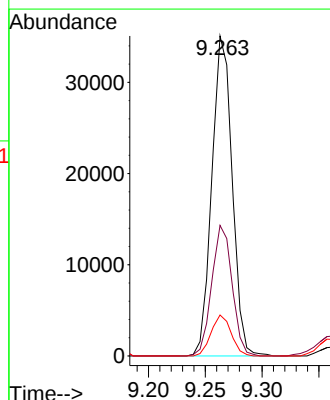
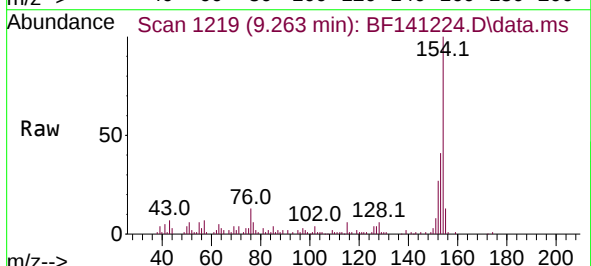
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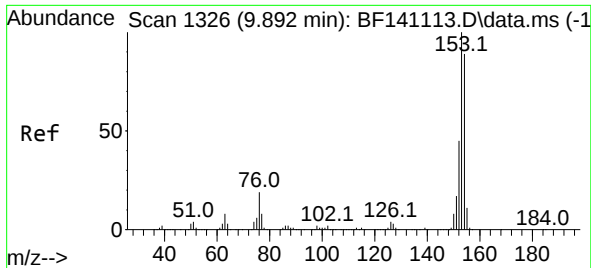
Ion Ratio Lower Upper

154 100

153 40.8 20.7 60.7

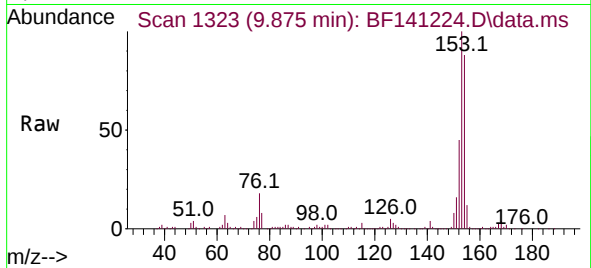
76 12.8 0.0 33.1





#52
Acenaphthene
Concen: 7.530 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

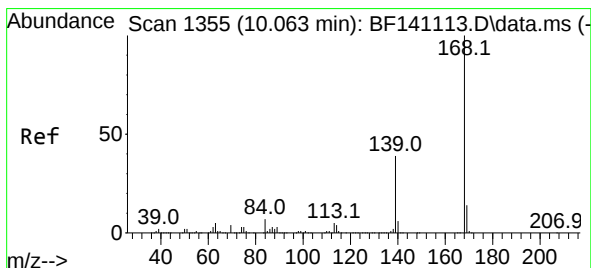
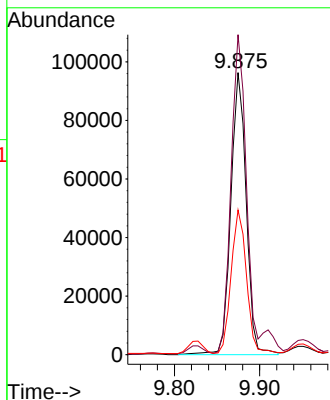
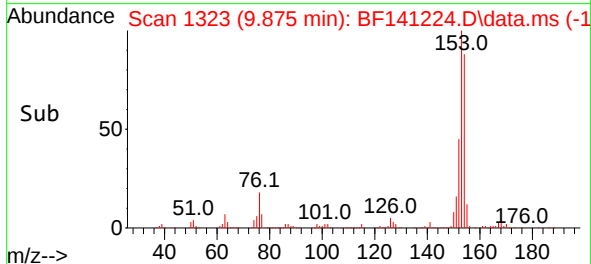
Instrument :
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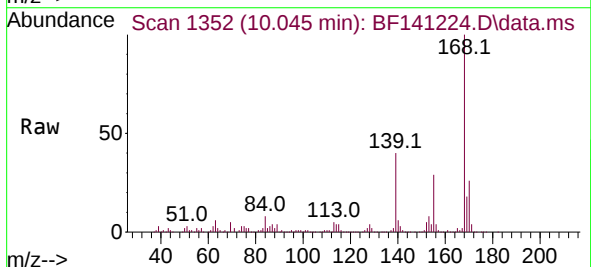
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Ion Ratio Lower Upper
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153 113.5 89.8 134.6
152 51.3 40.8 61.2

Manual Integrations
APPROVED

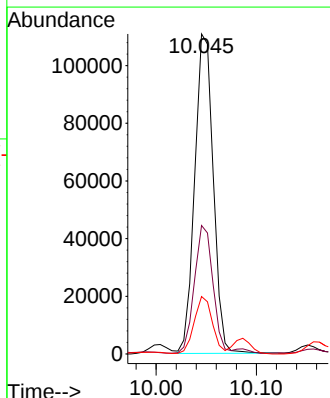
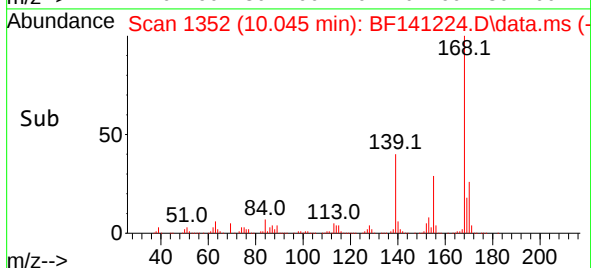
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025

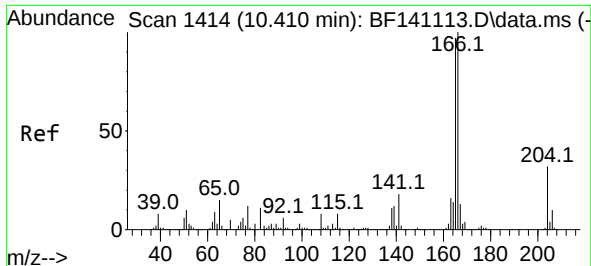


#55
Dibenzofuran
Concen: 6.550 ng
RT: 10.045 min Scan# 1352
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58



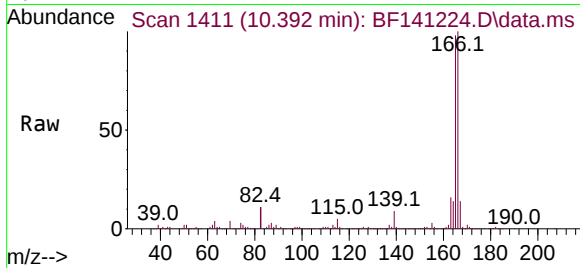
Tgt Ion:168 Resp: 142547
Ion Ratio Lower Upper
168 100
139 40.2 31.4 47.0
169 18.0 10.9 16.3#





#58
Fluorene
Concen: 14.063 ng
RT: 10.392 min Scan# 1414
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

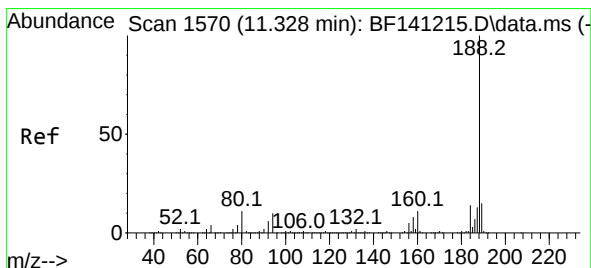
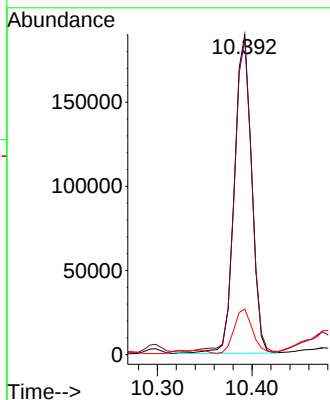
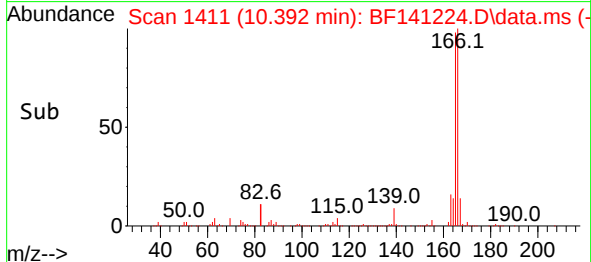
Instrument :
BNA_F
ClientSampleId :
HD-2-011725



Tgt Ion:166 Resp: 23776
Ion Ratio Lower Upper
166 100
165 98.5 77.8 116.8
167 14.2 10.8 16.2

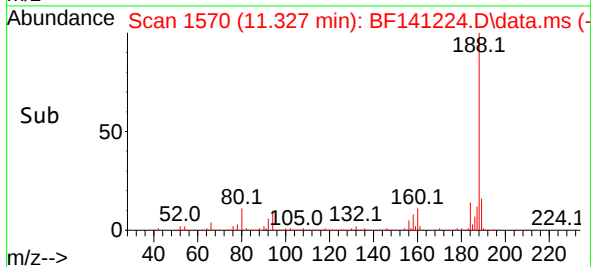
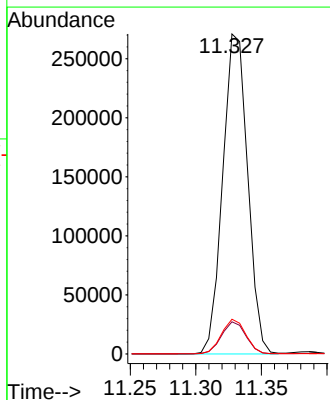
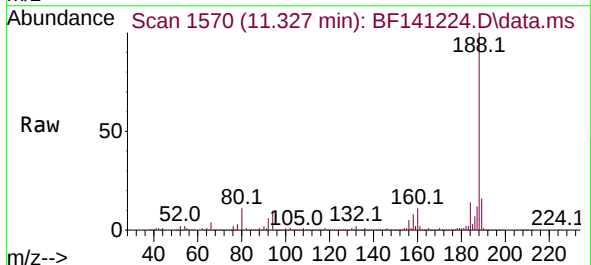
Manual Integrations
APPROVED

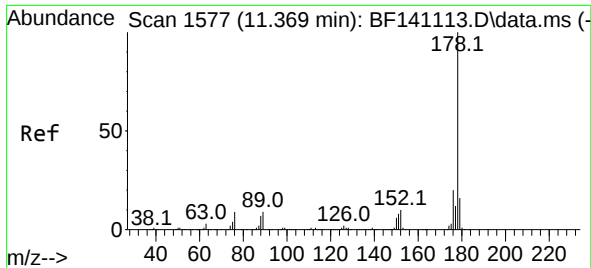
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

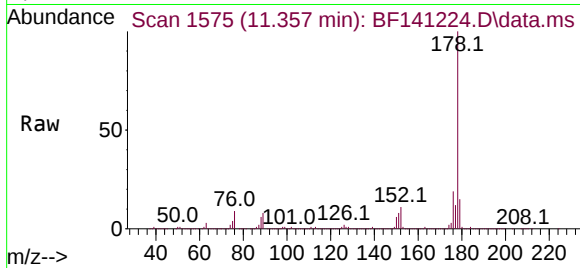
Tgt Ion:188 Resp: 358268
Ion Ratio Lower Upper
188 100
94 10.0 8.3 12.5
80 10.8 9.0 13.4





#71
Phenanthrene
Concen: 69.299 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

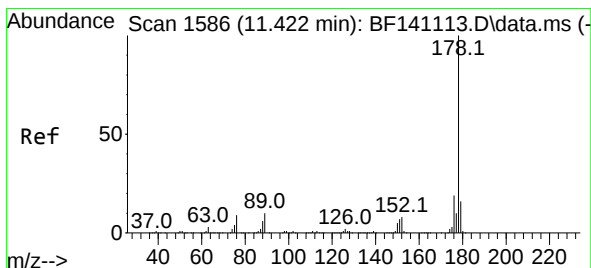
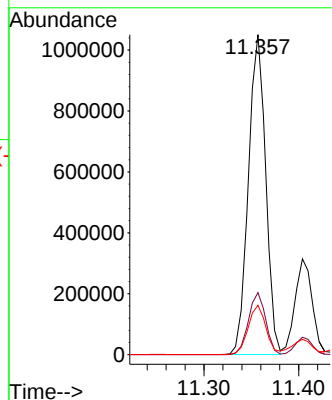
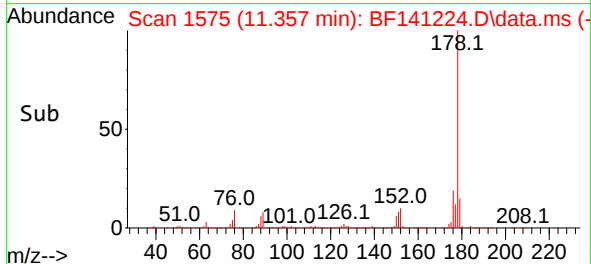
Instrument :
BNA_F
ClientSampleId :
HD-2-011725



Tgt Ion:178 Resp: 133291
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.5 12.6 19.0

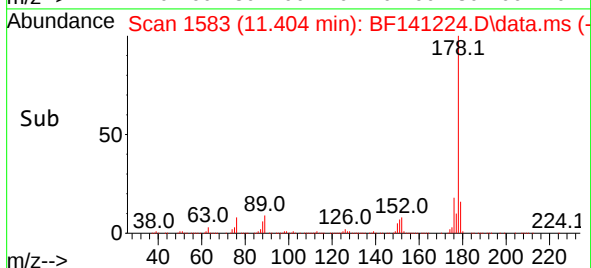
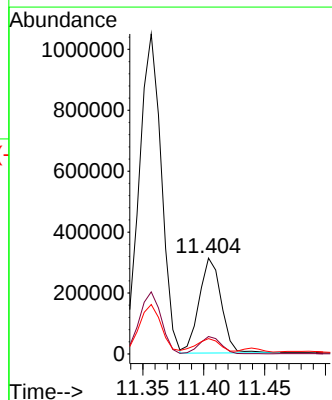
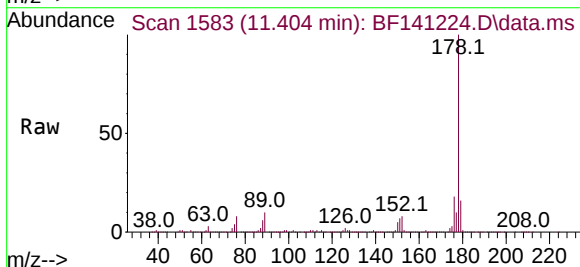
Manual Integrations
APPROVED

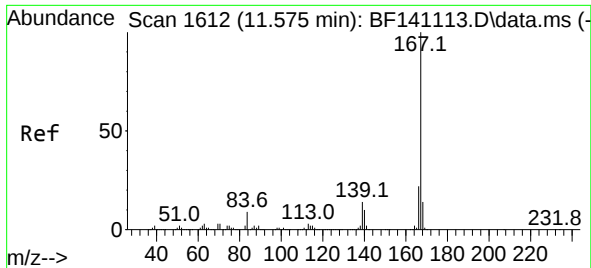
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025



#72
Anthracene
Concen: 21.025 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:178 Resp: 393222
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 16.1 12.6 19.0





#73
 Carbazole
 Concen: 5.693 ng
 RT: 11.557 min Scan# 1609
 Delta R.T. -0.018 min
 Lab File: BF141224.D
 Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

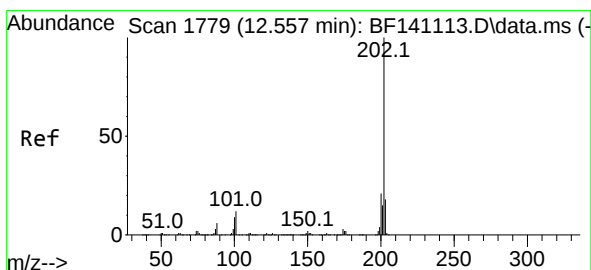
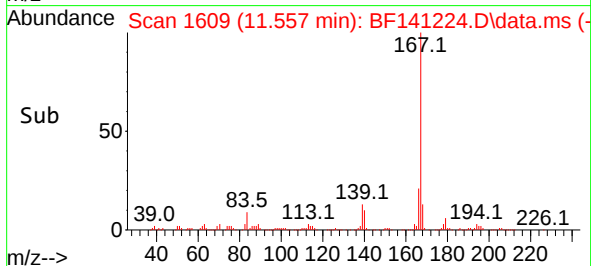
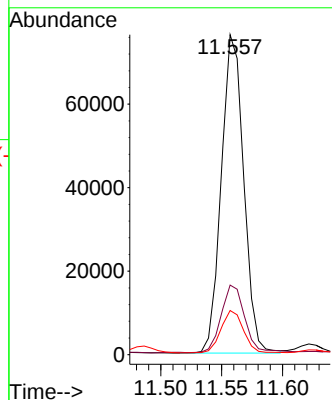
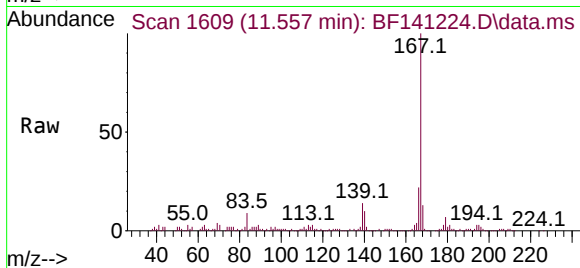
HD-2-011725

Tgt Ion:167 Resp: 9762
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.4 26.2
 139 13.8 10.9 16.3

Manual Integrations

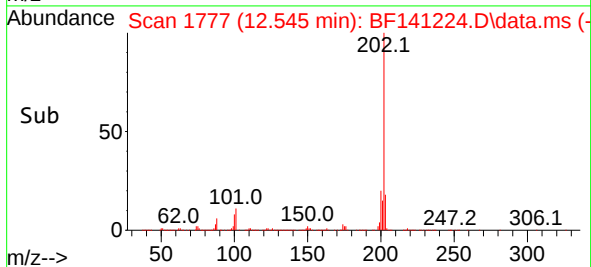
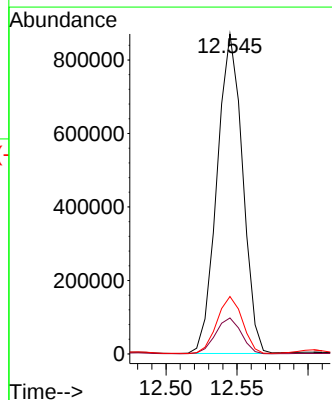
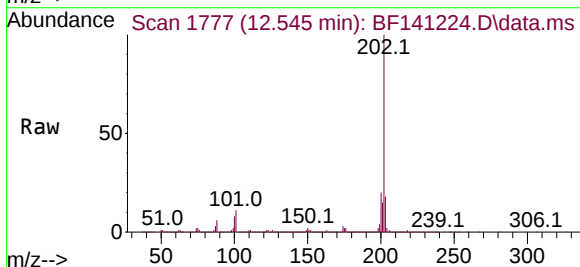
APPROVED

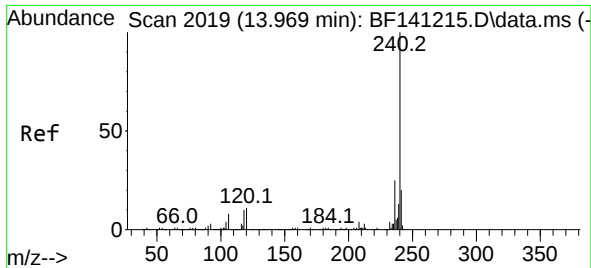
Reviewed By :Yogesh Patel 01/21/2025
 Supervised By :mohammad ahmed 01/21/2025



#75
 Fluoranthene
 Concen: 56.739 ng
 RT: 12.545 min Scan# 1777
 Delta R.T. -0.012 min
 Lab File: BF141224.D
 Acq: 20 Jan 2025 15:58

Tgt Ion:202 Resp: 1089046
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 32.3
 203 18.0 0.0 37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

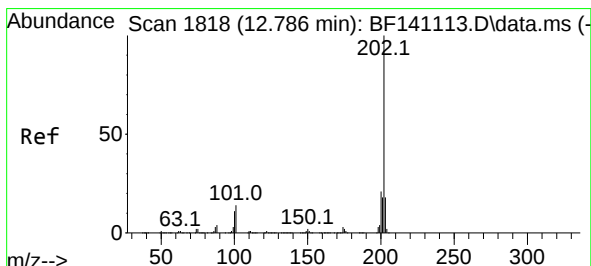
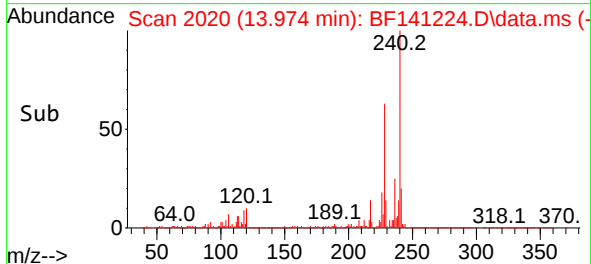
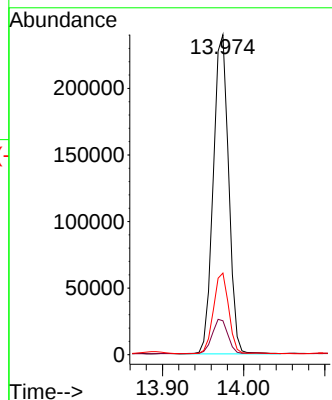
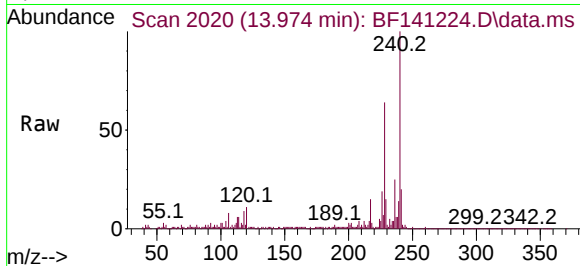
HD-2-011725

Tgt Ion:240 Resp: 315369
Ion Ratio Lower Upper
240 100
120 10.6 9.1 13.7
236 25.5 19.8 29.6

Manual Integrations

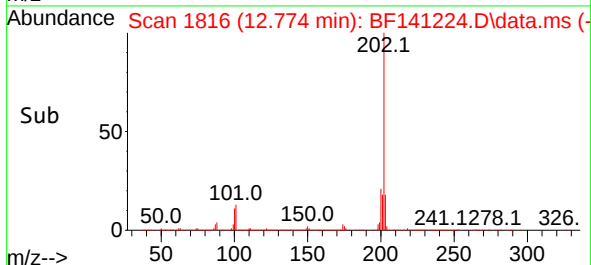
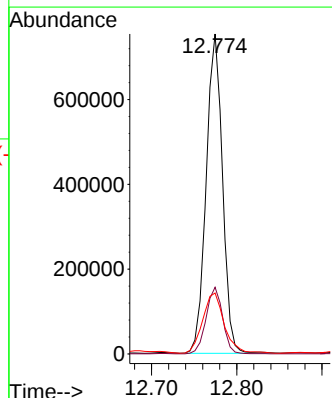
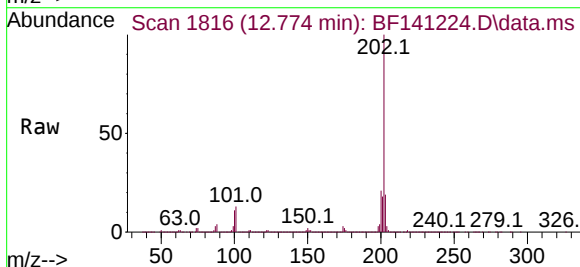
APPROVED

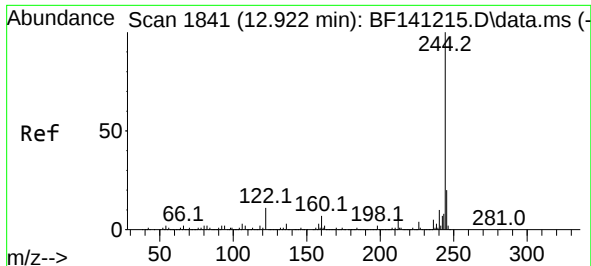
Reviewed By :Yogesh Patel 01/21/2025
Supervised By :mohammad ahmed 01/21/2025



#78
Pyrene
Concen: 33.252 ng
RT: 12.774 min Scan# 1816
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

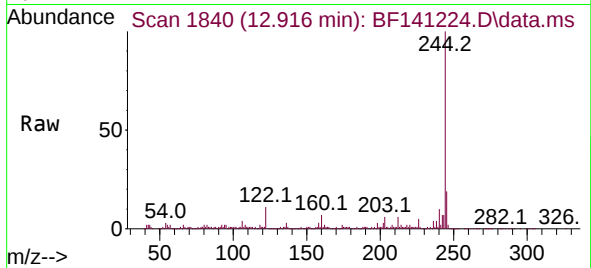
Tgt Ion:202 Resp: 1001611
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 19.0 14.3 21.5





#79
 Terphenyl-d14
 Concen: 9.733 ng
 RT: 12.916 min Scan# 1840
 Delta R.T. -0.018 min
 Lab File: BF141224.D
 Acq: 20 Jan 2025 15:58

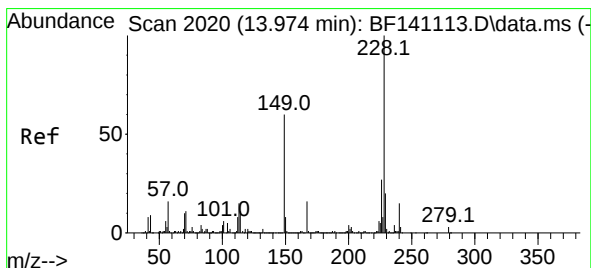
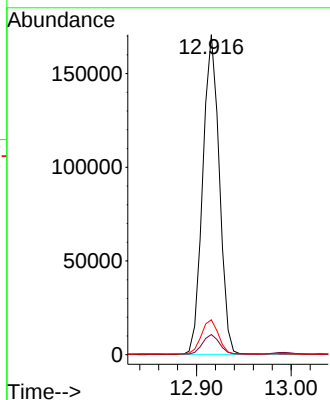
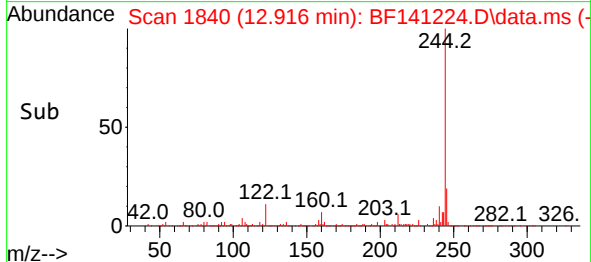
Instrument :
 BNA_F
 ClientSampleId :
 HD-2-011725



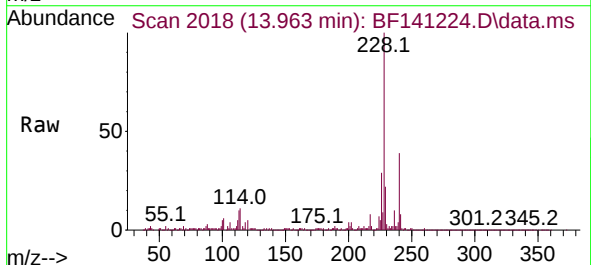
Tgt Ion:244 Resp: 206524
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.4 8.2
 122 10.9 8.8 13.2

Manual Integrations
 APPROVED

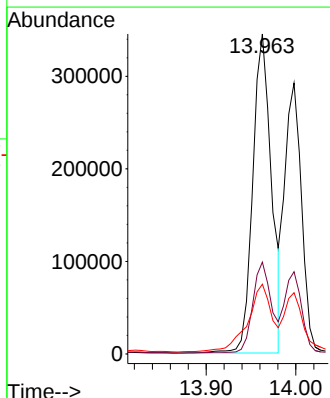
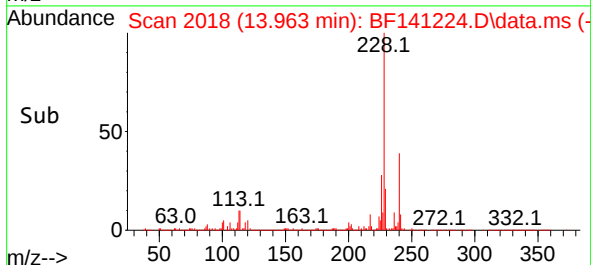
Reviewed By :Yogesh Patel 01/21/2025
 Supervised By :mohammad ahmed 01/21/2025

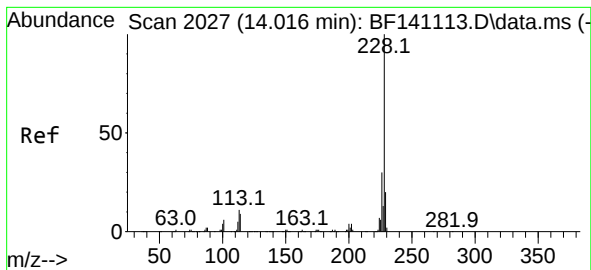


#81
 Benzo(a)anthracene
 Concen: 23.297 ng
 RT: 13.963 min Scan# 2018
 Delta R.T. -0.012 min
 Lab File: BF141224.D
 Acq: 20 Jan 2025 15:58



Tgt Ion:228 Resp: 500021
 Ion Ratio Lower Upper
 228 100
 226 28.7 21.7 32.5
 229 21.8 15.7 23.5





#83

Chrysene

Concen: 18.680 ng

RT: 13.998 min Scan# 2027

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

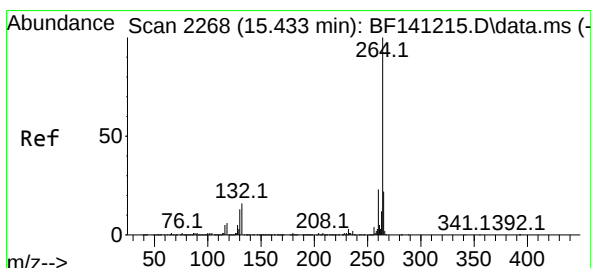
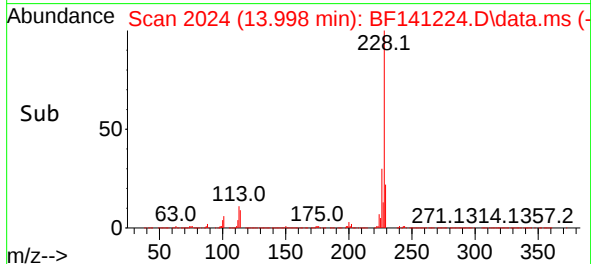
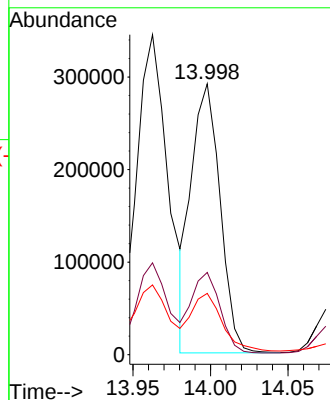
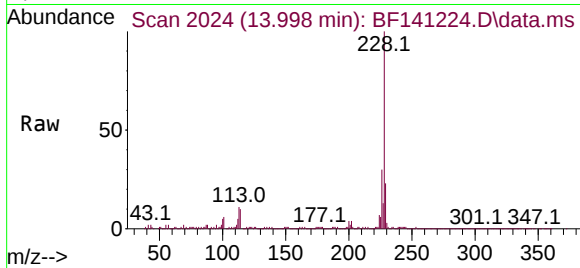
Tgt Ion:228	Resp: 375149
Ion Ratio	Lower Upper
228 100	
226 30.3	23.8 35.8
229 22.6	15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/21/2025

Supervised By :mohammad ahmed 01/21/2025



#86

Perylene-d12

Concen: 20.000 ng

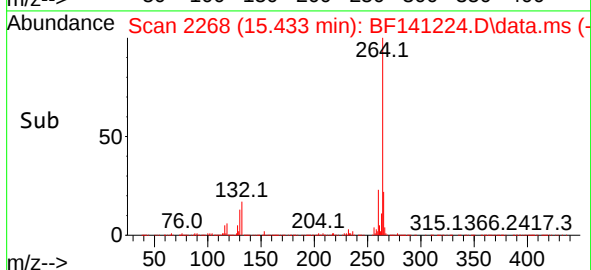
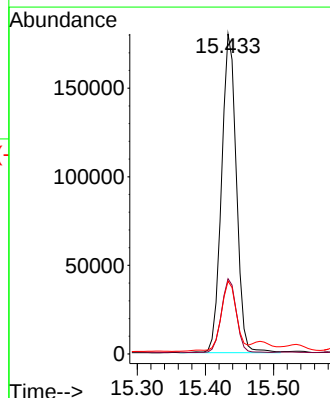
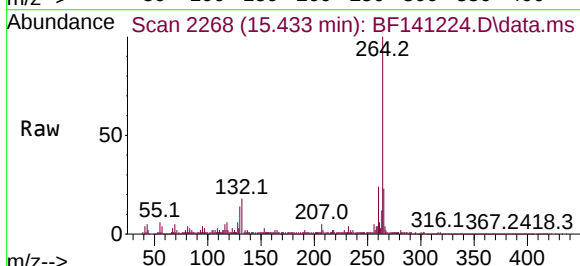
RT: 15.433 min Scan# 2268

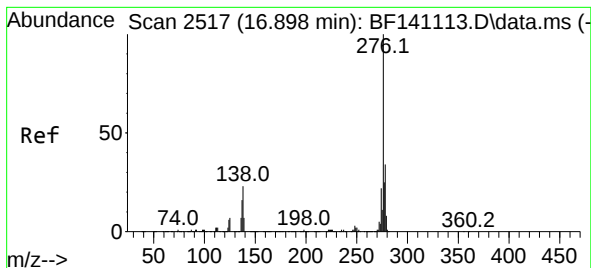
Delta R.T. -0.006 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Tgt Ion:264	Resp: 272616
Ion Ratio	Lower Upper
264 100	
260 23.5	18.6 28.0
265 22.7	17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.206 ng m

RT: 16.874 min Scan# 2197

Delta R.T. -0.024 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

Tgt Ion:276 Resp: 14391

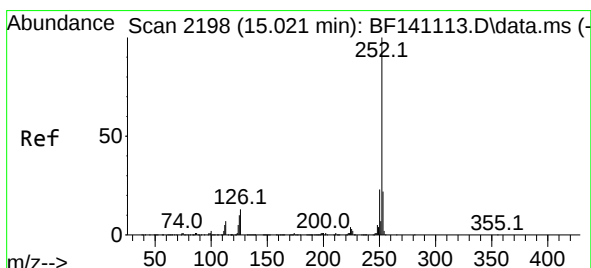
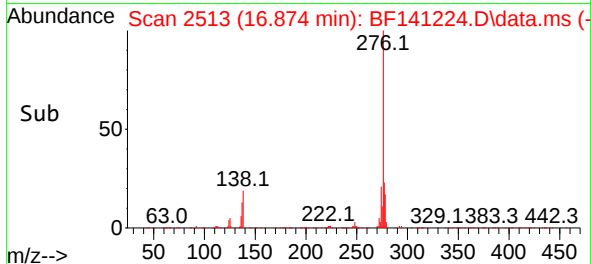
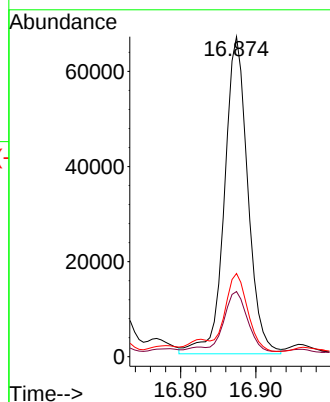
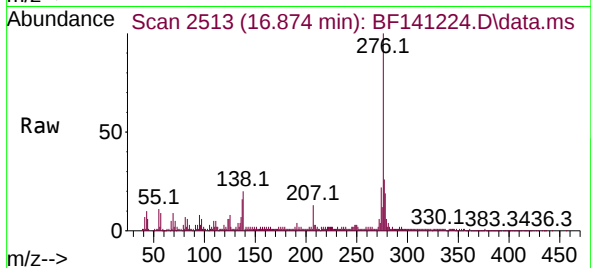
Ion	Ratio	Lower	Upper
276	100		
138	4.2	20.7	31.1
277	4.7	20.6	30.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/21/2025

Supervised By :mohammad ahmed 01/21/2025



#88

Benzo(b)fluoranthene

Concen: 21.773 ng m

RT: 15.015 min Scan# 2197

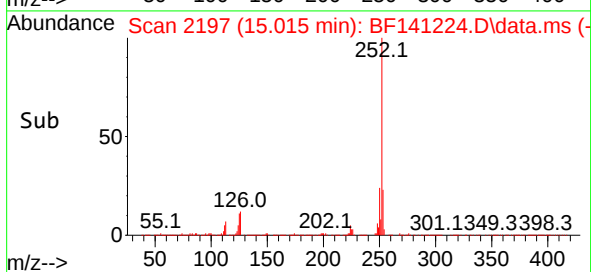
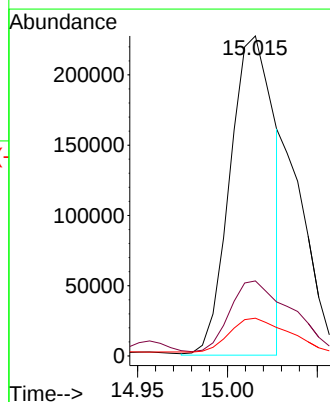
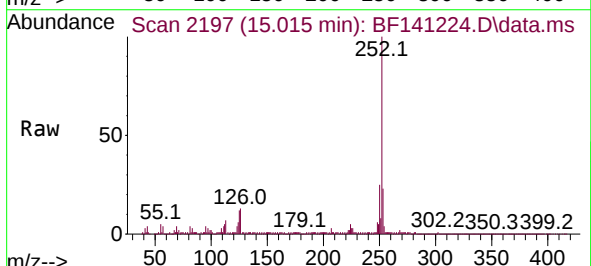
Delta R.T. -0.006 min

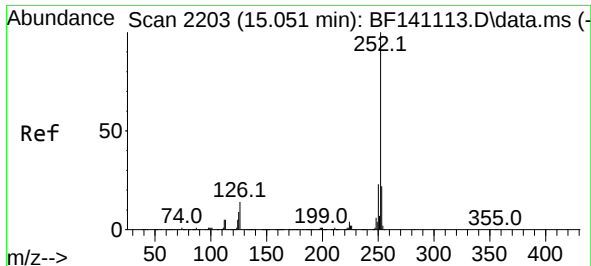
Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Tgt Ion:252 Resp: 382750

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	11.8	8.1	12.1





#89

Benzo(k)fluoranthene

Concen: 10.044 ng m

RT: 15.027 min Scan# 2199

Delta R.T. -0.024 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

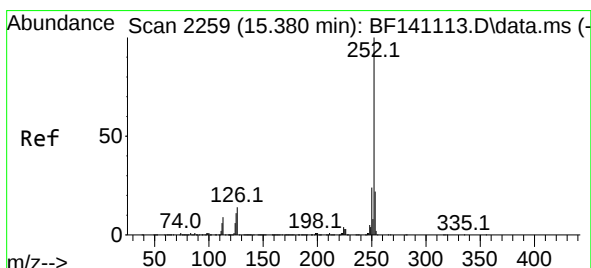
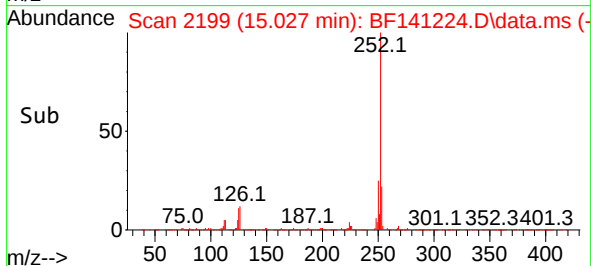
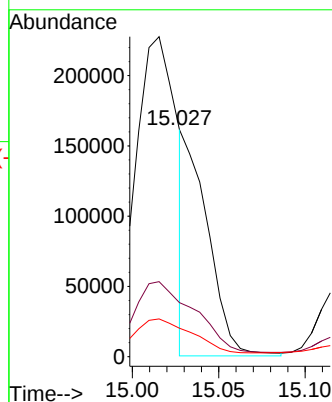
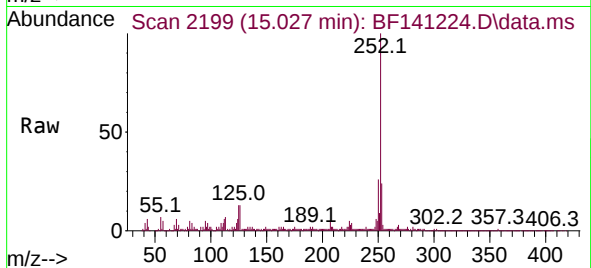
Tgt Ion:252 Resp: 149219
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.8 26.8
 125 12.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/21/2025

Supervised By :mohammad ahmed 01/21/2025



#90

Benzo(a)pyrene

Concen: 20.582 ng

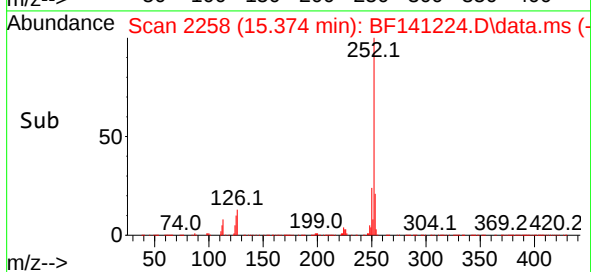
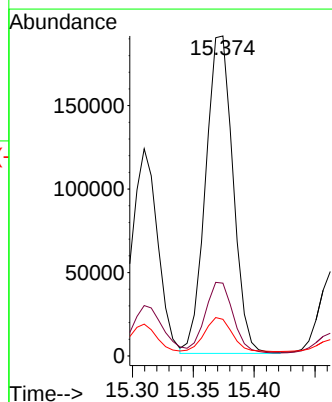
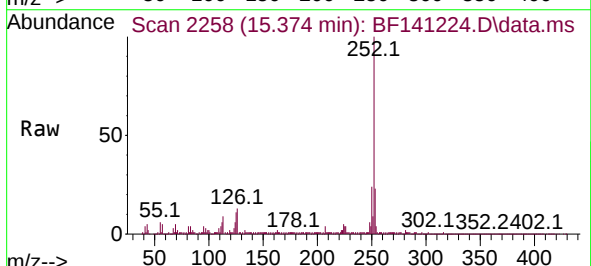
RT: 15.374 min Scan# 2258

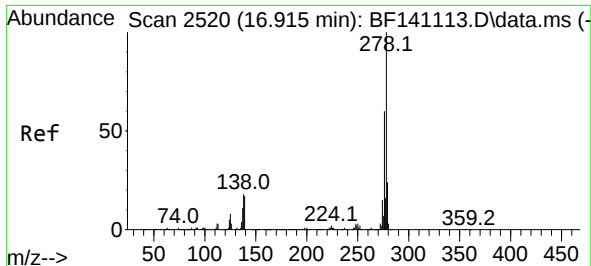
Delta R.T. -0.006 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Tgt Ion:252 Resp: 298518
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.7 26.5
 125 11.4 9.1 13.7





#91

Dibenzo(a,h)anthracene

Concen: 2.210 ng

RT: 16.886 min Scan# 2515

Delta R.T. -0.029 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

Tgt Ion:278 Resp: 3569

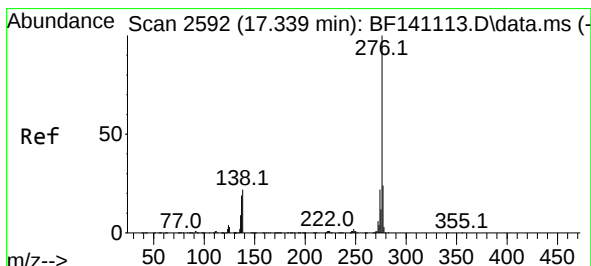
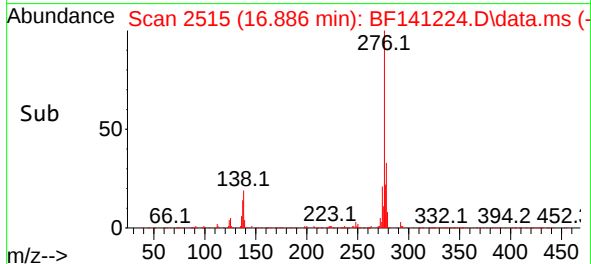
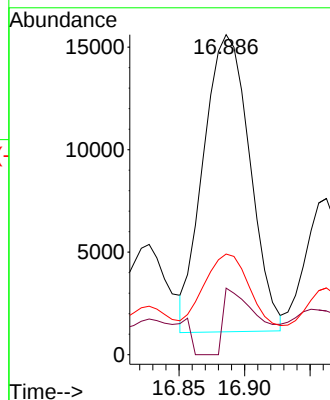
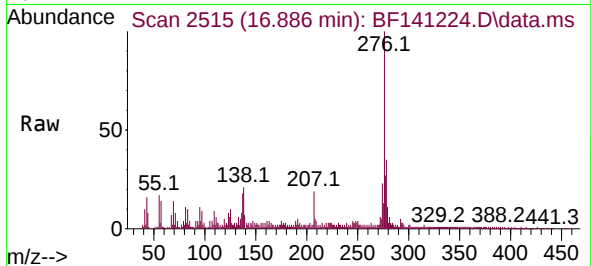
Ion	Ratio	Lower	Upper
278	100		
139	20.8	13.8	20.6
279	31.5	19.1	28.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/21/2025

Supervised By :mohammad ahmed 01/21/2025



#92

Benzo(g,h,i)perylene

Concen: 7.529 ng

RT: 17.309 min Scan# 2587

Delta R.T. -0.029 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Tgt Ion:276 Resp: 126507

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.0	28.4
138	21.8	17.4	26.2

