

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021125\
 Data File : BF141568.D
 Acq On : 11 Feb 2025 18:01
 Operator : RC/JU
 Sample : Q1285-01DL 100X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11977DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/12/2025
 Supervised By :mohammad ahmed 02/12/2025

Quant Time: Feb 11 18:22:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.786	152	73262	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	283534	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	144692	20.000	ng	-0.01
64) Phenanthrene-d10	11.304	188	212403	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	171943	20.000	ng	-0.02
86) Perylene-d12	15.404	264	199200	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	3069	0.657	ng	0.01
7) Phenol-d6	6.439	99	4248	0.719	ng	0.00
23) Nitrobenzene-d5	7.351	82	3235	0.595	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	739	0.508	ng	-0.01
45) 2-Fluorobiphenyl	9.139	172	5631	0.600	ng	-0.01
79) Terphenyl-d14	12.886	244	5948	0.584	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.092	128	624724	42.328	ng	100
37) 2-Methylnaphthalene	8.780	142	276935	28.835	ng	100
38) 1-Methylnaphthalene	8.880	142	225723	24.266	ng	97
46) 1,1'-Biphenyl	9.245	154	90597	8.076	ng	98
49) Acenaphthylene	9.680	152	61292	4.968	ng	# 95
52) Acenaphthene	9.851	154	170769	20.588	ng	99
58) Fluorene	10.369	166	104691	11.121	ng	97
71) Phenanthrene	11.333	178	472019	40.372	ng	99
72) Anthracene	11.380	178	146047	12.426	ng	99
75) Fluoranthene	12.516	202	139667	11.267	ng	100
78) Pyrene	12.745	202	274343	18.743	ng	99
81) Benzo(a)anthracene	13.939	228	90910m	7.954	ng	
83) Chrysene	13.974	228	65279	6.186	ng	100
87) Indeno(1,2,3-cd)pyrene	16.839	276	26517	2.154	ng	95
88) Benzo(b)fluoranthene	14.992	252	61536m	4.601	ng	
90) Benzo(a)pyrene	15.345	252	82036	7.580	ng	97
92) Benzo(g,h,i)perylene	17.268	276	28978	2.777	ng	98

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

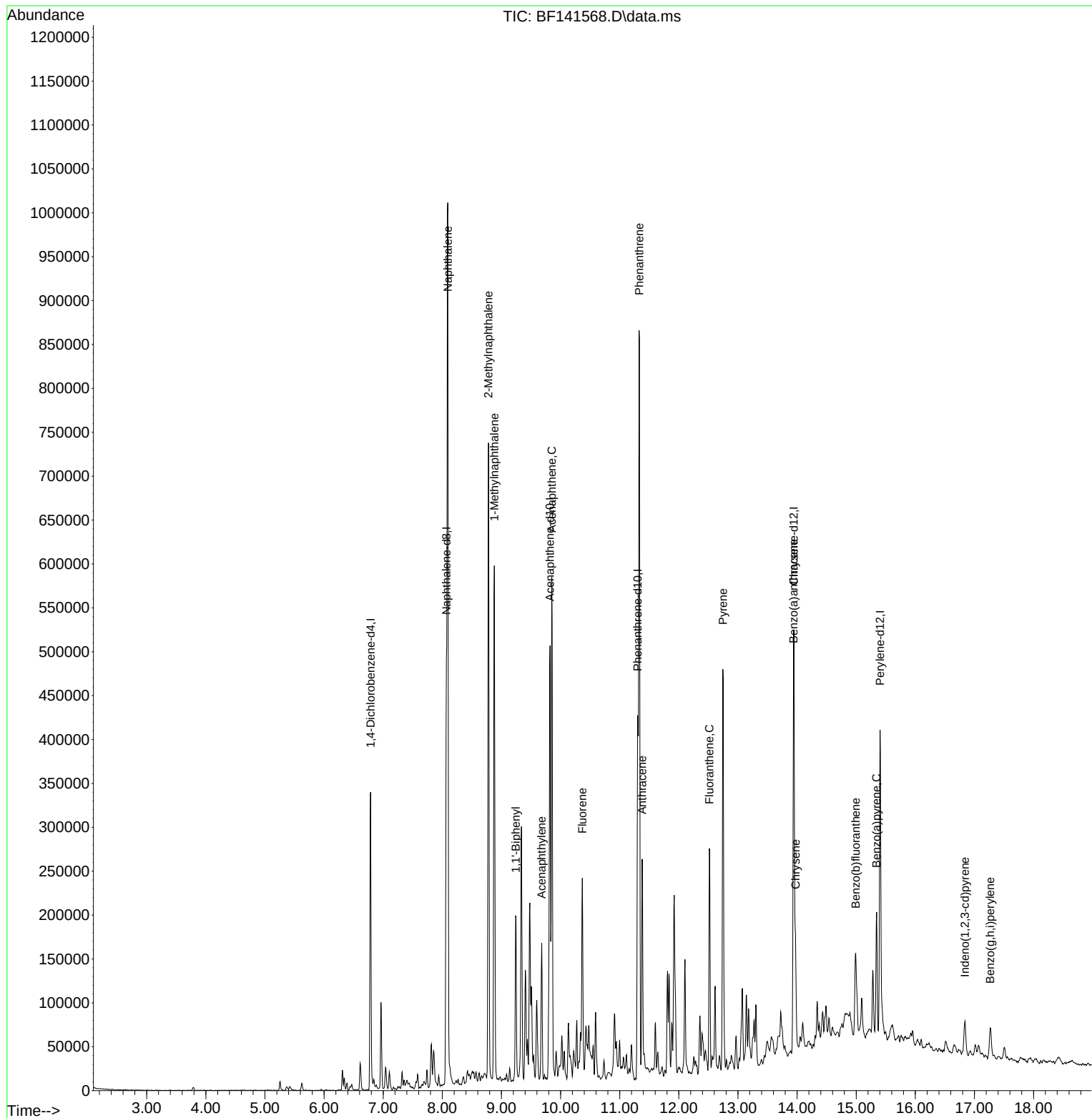
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021125\
Data File : BF141568.D
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ALS Vial : 19 Sample Multiplier: 1

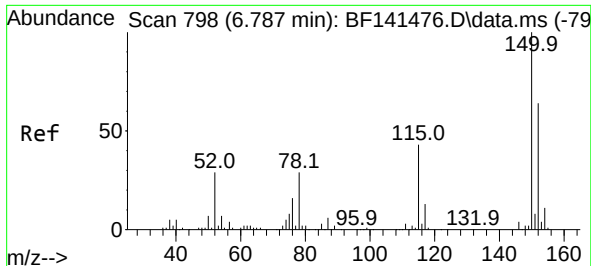
Instrument :
BNA_F
ClientSampleId :
72-11977DL

Quant Time: Feb 11 18:22:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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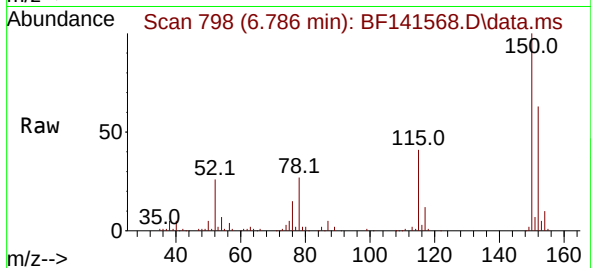
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

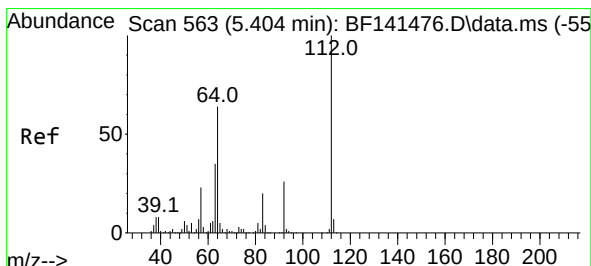
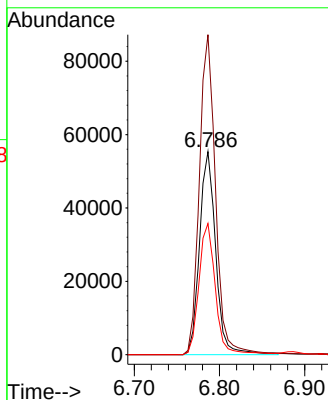
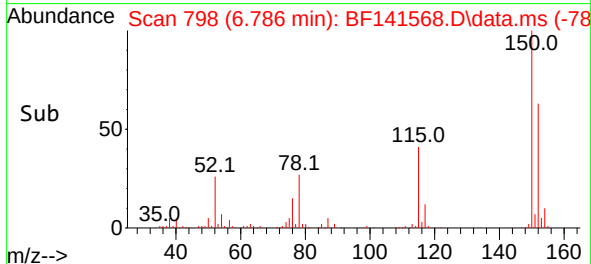
Instrument :
BNA_F
ClientSampleId :
72-11977DL



Tgt Ion:152 Resp: 7326
Ion Ratio Lower Upper
152 100
150 157.7 125.0 187.4
115 64.7 53.6 80.4

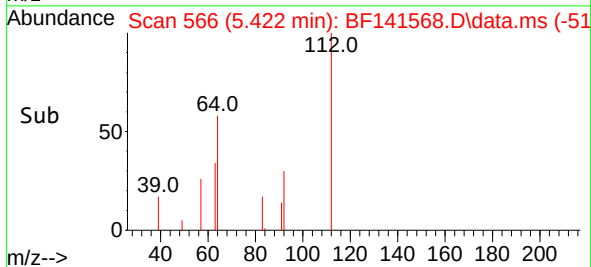
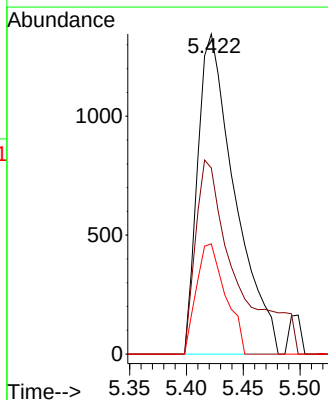
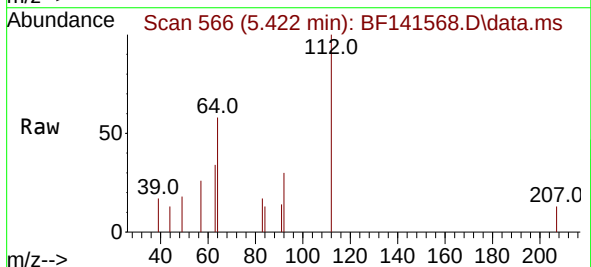
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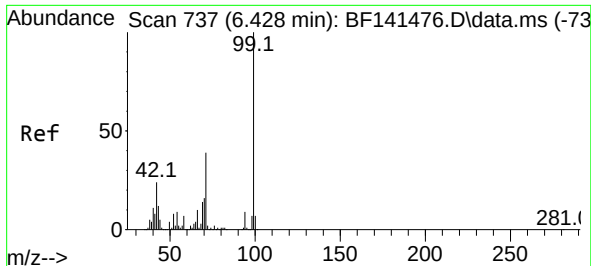
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#5
2-Fluorophenol
Concen: 0.657 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

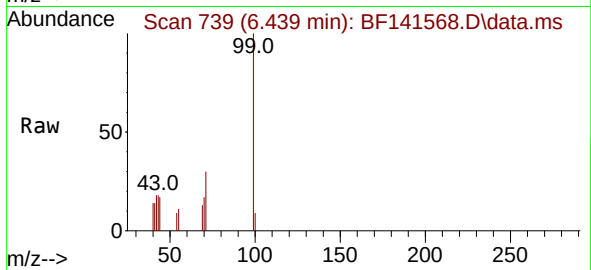
Tgt Ion:112 Resp: 3069
Ion Ratio Lower Upper
112 100
64 58.1 51.1 76.7
63 34.4 28.4 42.6





#7
Phenol-d6
Concen: 0.719 ng
RT: 6.439 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

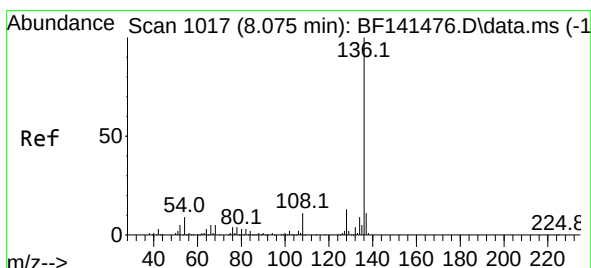
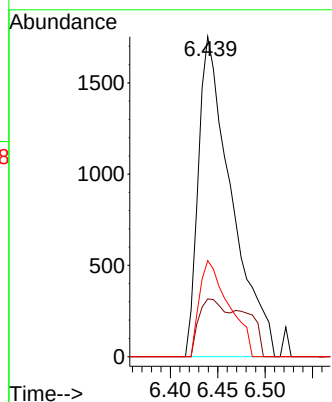
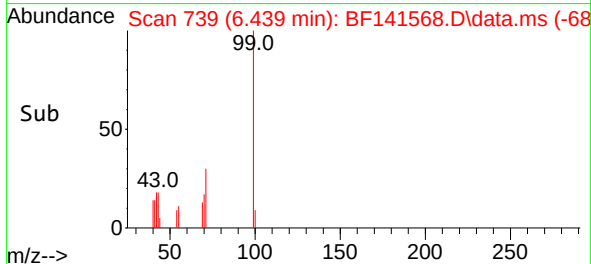
Instrument :
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ClientSampleId :
72-11977DL



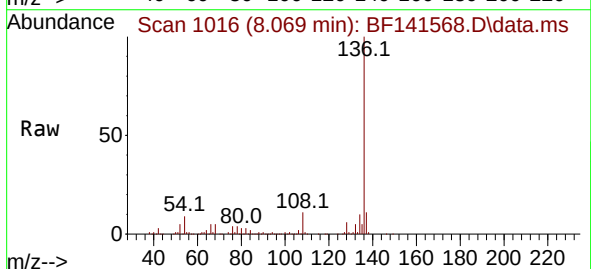
Tgt Ion: 99 Resp: 4248
Ion Ratio Lower Upper
99 100
42 18.0 19.1 28.7
71 30.0 31.1 46.7

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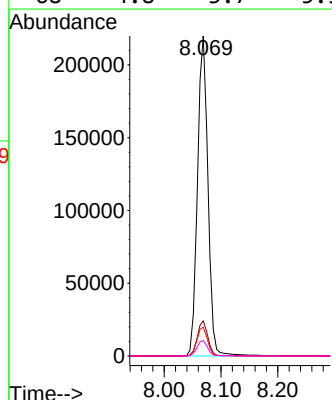
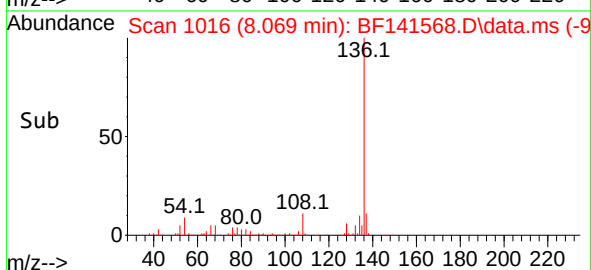
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

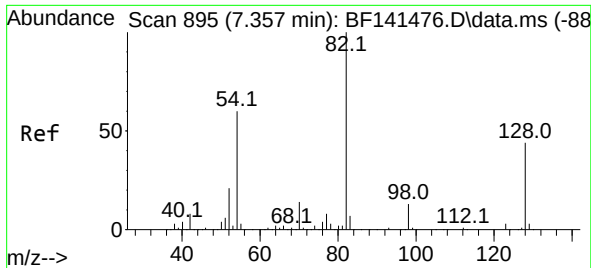


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01



Tgt Ion:136 Resp: 283534
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 9.0 7.2 10.8
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 0.595 ng

RT: 7.351 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

Tgt Ion: 82 Resp: 323

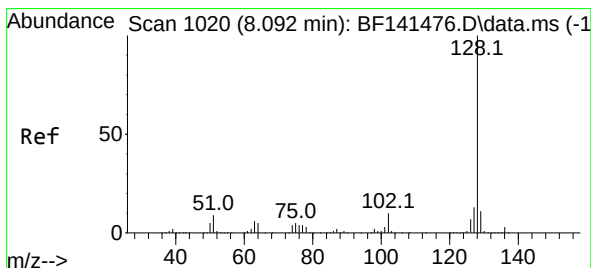
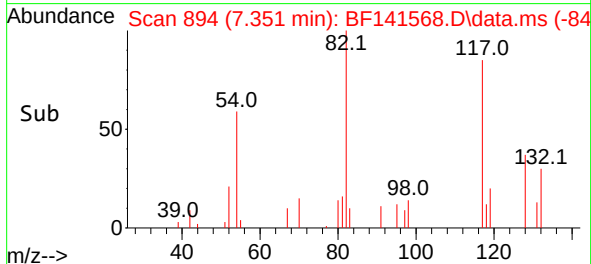
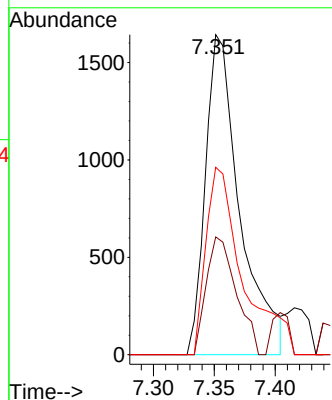
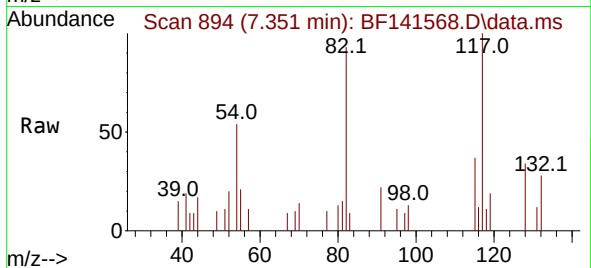
Ion	Ratio	Lower	Upper
82	100		
128	36.8	34.8	52.2
54	58.6	48.2	72.4

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#31

Naphthalene

Concen: 42.328 ng

RT: 8.092 min Scan# 1020

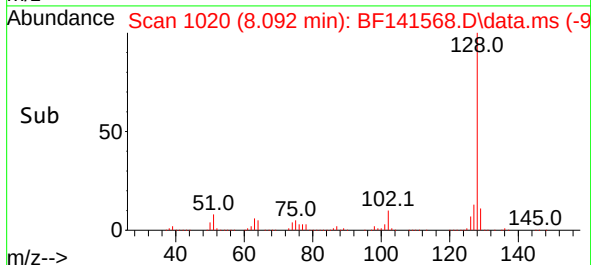
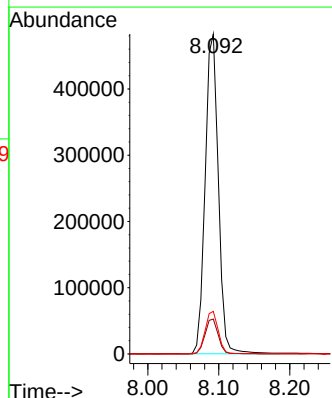
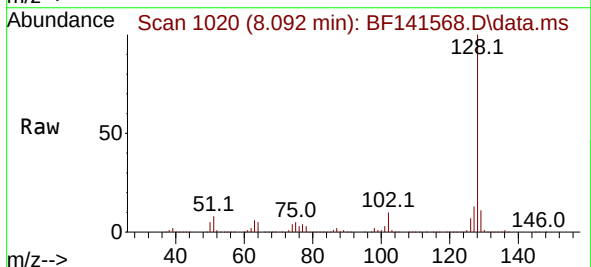
Delta R.T. -0.006 min

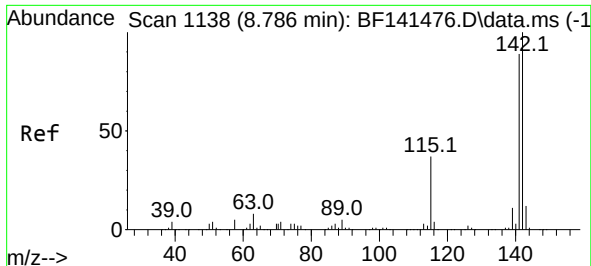
Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Tgt Ion:128 Resp: 624724

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.3	10.7	16.1





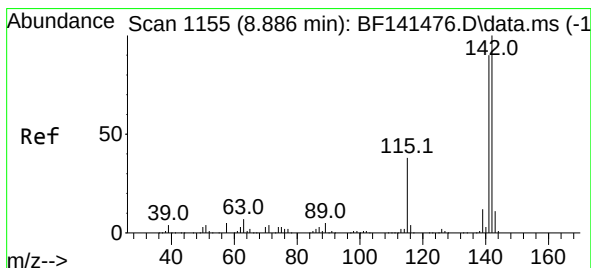
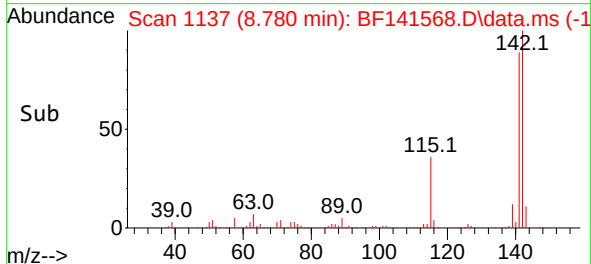
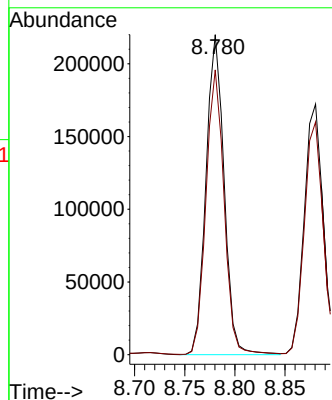
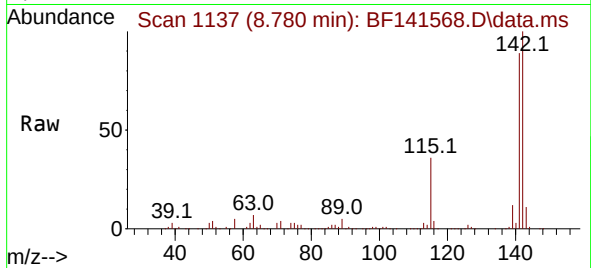
#37
2-Methylnaphthalene
Concen: 28.835 ng
RT: 8.780 min Scan# 1138
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Instrument :
BNA_F
ClientSampleId :
72-11977DL

Tgt Ion:142 Resp: 276935
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8

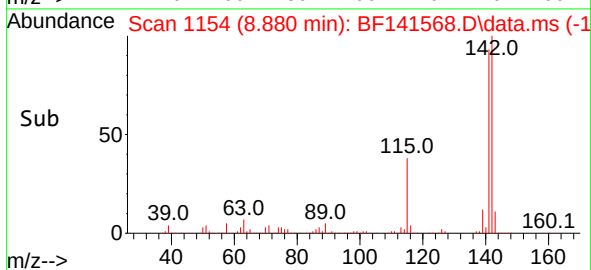
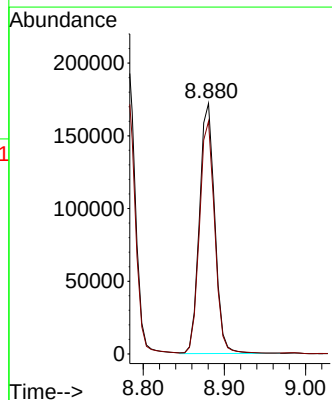
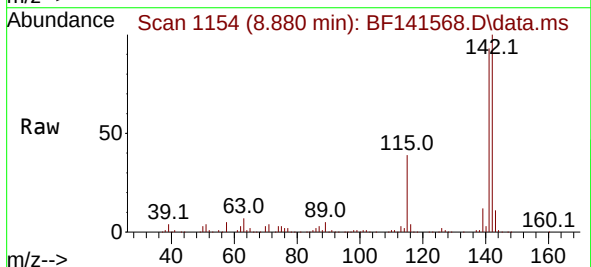
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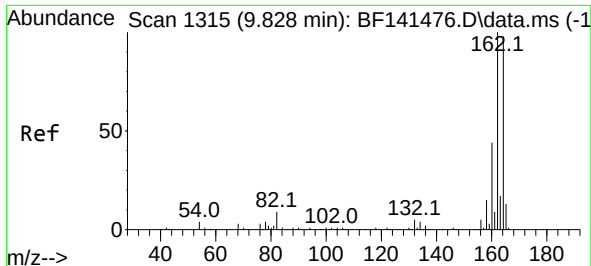
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#38
1-Methylnaphthalene
Concen: 24.266 ng
RT: 8.880 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:142 Resp: 225723
Ion Ratio Lower Upper
142 100
141 92.9 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

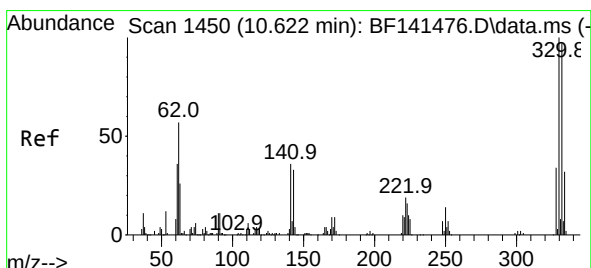
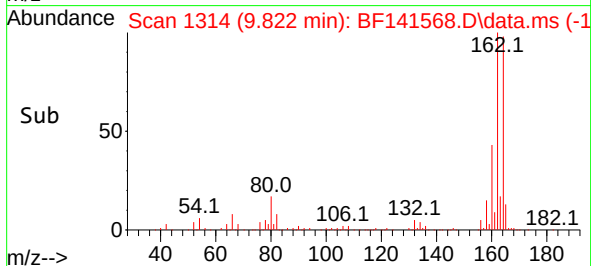
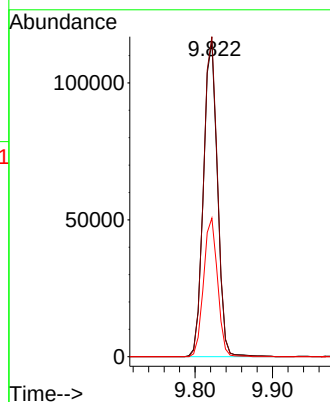
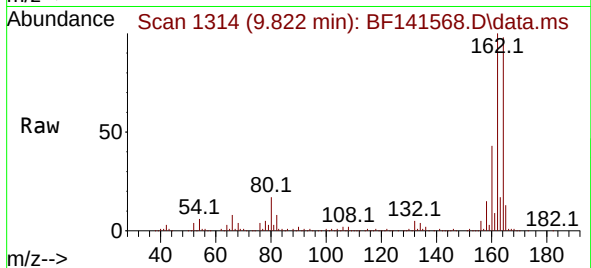
72-11977DL

Tgt Ion:164 Resp: 144692
 Ion Ratio Lower Upper
 164 100
 162 101.6 81.3 121.9
 160 44.0 35.9 53.9

Manual Integrations

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 Supervised By :mohammad ahmed 02/12/2025



#42

2,4,6-Tribromophenol

Concen: 0.508 ng

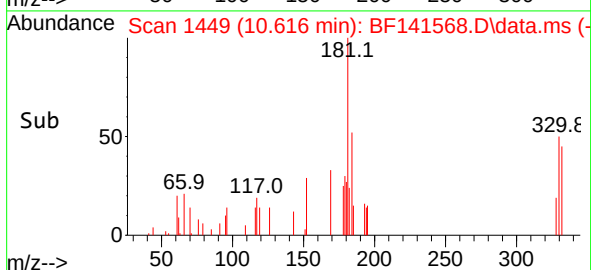
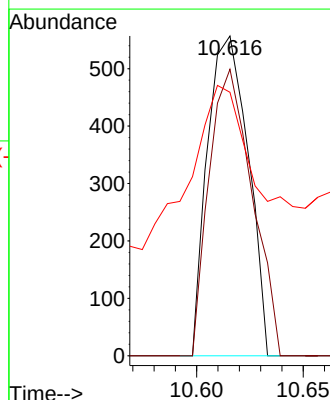
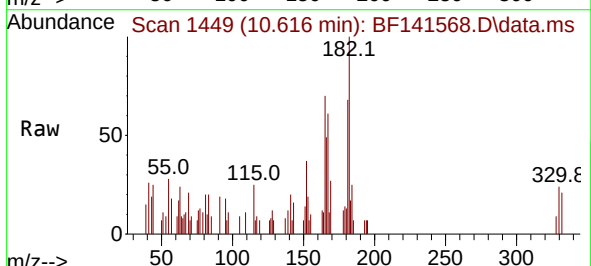
RT: 10.616 min Scan# 1449

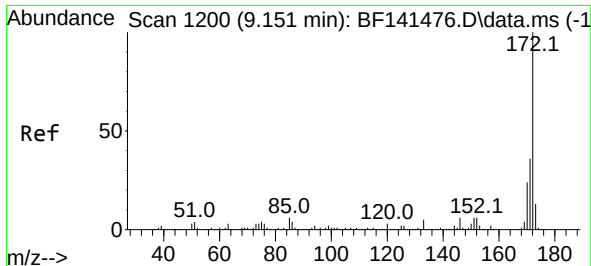
Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Tgt Ion:330 Resp: 739
 Ion Ratio Lower Upper
 330 100
 332 95.0 78.5 117.7
 141 82.9 31.0 46.4#





#45

2-Fluorobiphenyl

Concen: 0.600 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

Tgt Ion:172 Resp: 563

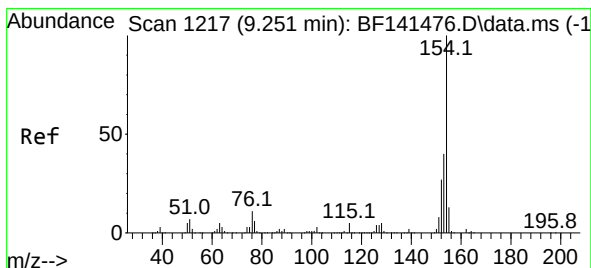
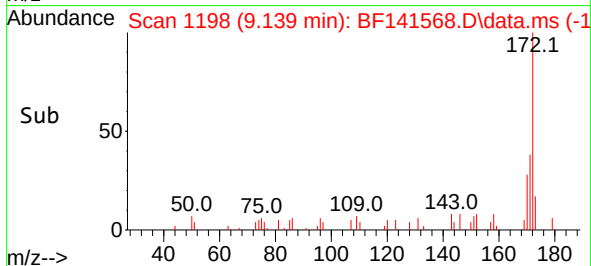
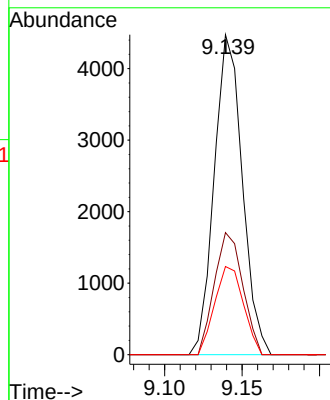
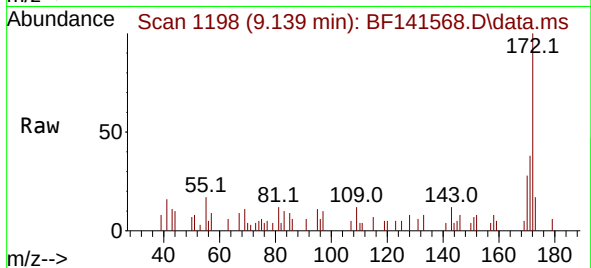
Ion	Ratio	Lower	Upper
172	100		
171	38.1	28.7	43.1
170	27.5	18.9	28.3

Manual Integrations

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Supervised By :mohammad ahmed 02/12/2025



#46

1,1'-Biphenyl

Concen: 8.076 ng

RT: 9.245 min Scan# 1216

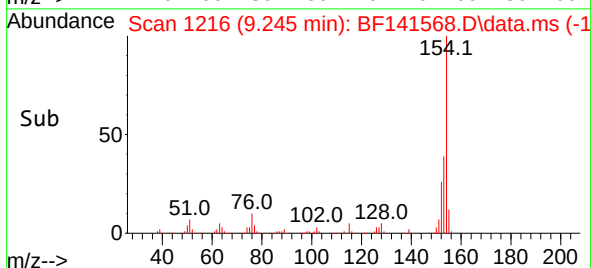
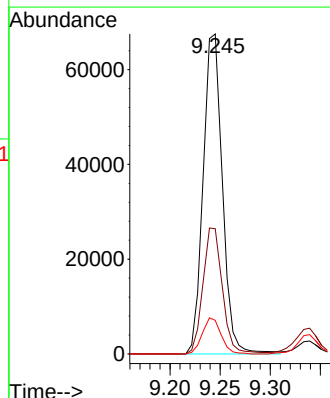
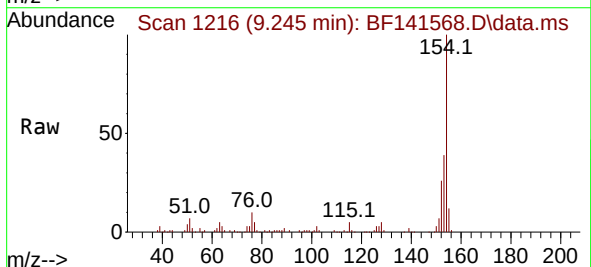
Delta R.T. -0.012 min

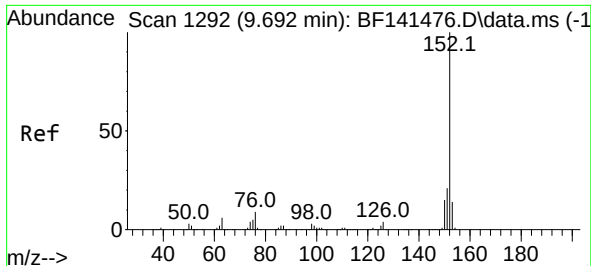
Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Tgt Ion:154 Resp: 90597

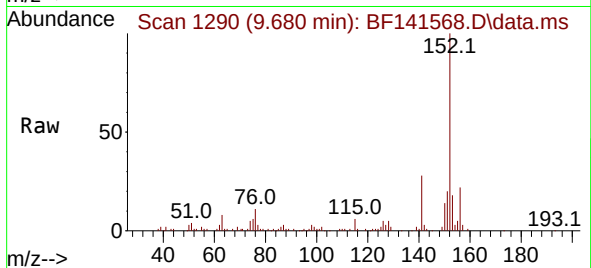
Ion	Ratio	Lower	Upper
154	100		
153	39.2	20.4	60.4
76	10.5	0.0	30.8





#49
Acenaphthylene
Concen: 4.968 ng
RT: 9.680 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

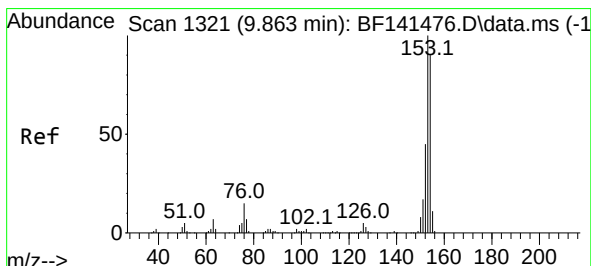
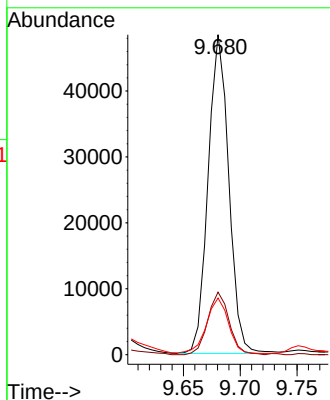
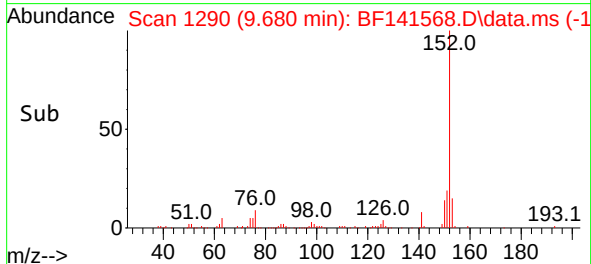
Instrument :
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72-11977DL



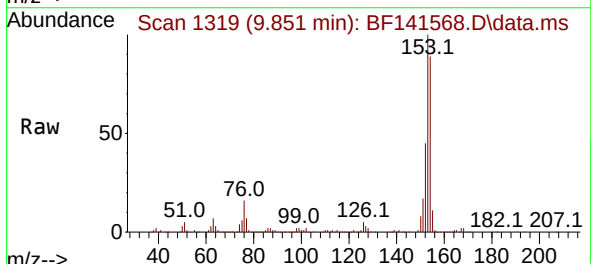
Tgt Ion:152 Resp: 6129
Ion Ratio Lower Upper
152 100
151 19.6 16.4 24.6
153 17.7 10.9 16.3

Manual Integrations
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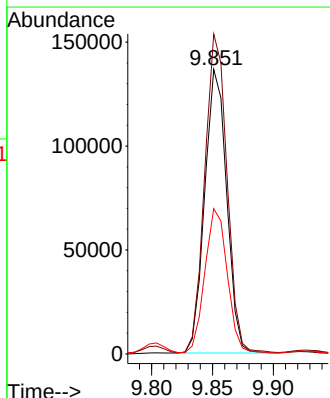
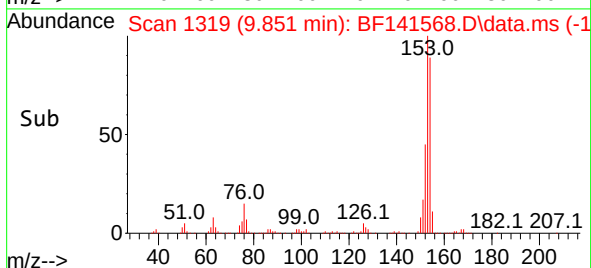
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

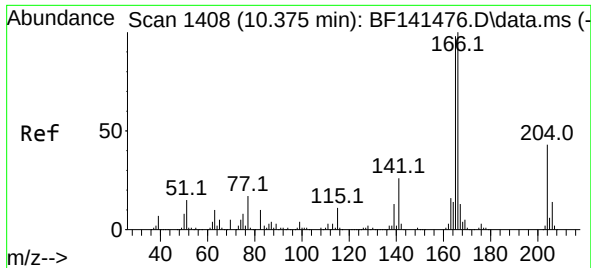


#52
Acenaphthene
Concen: 20.588 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01



Tgt Ion:154 Resp: 170769
Ion Ratio Lower Upper
154 100
153 112.4 89.2 133.8
152 51.0 39.8 59.8





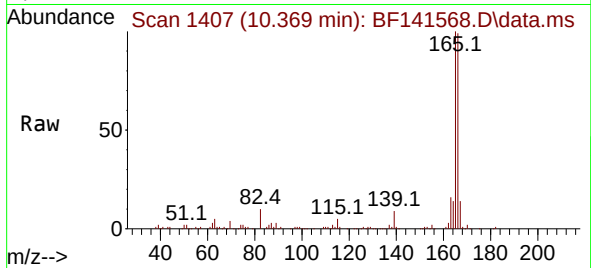
#58
Fluorene
Concen: 11.121 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

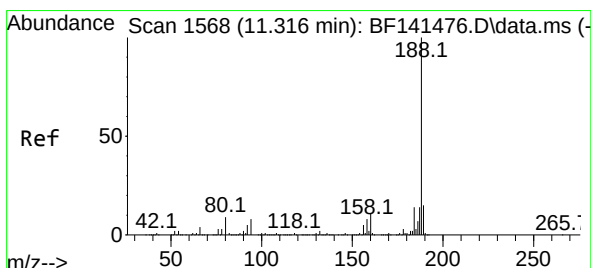
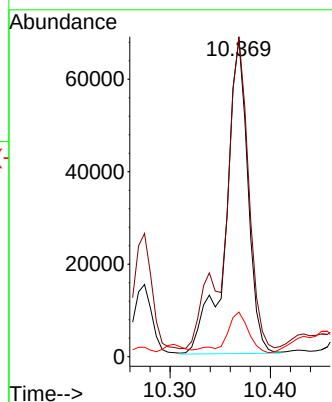
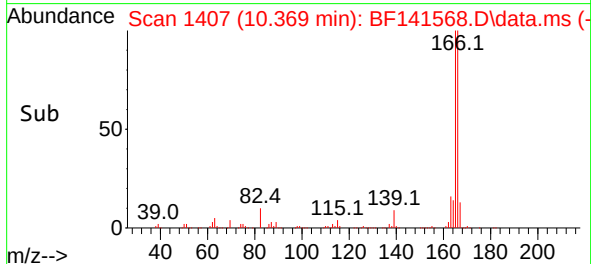


Tgt Ion:166 Resp: 10469
Ion Ratio Lower Upper
166 100
165 100.9 78.2 117.2
167 14.1 10.7 16.1

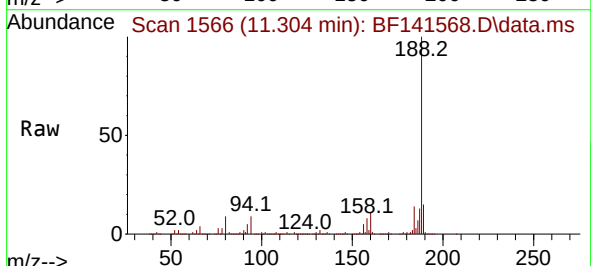
Manual Integrations

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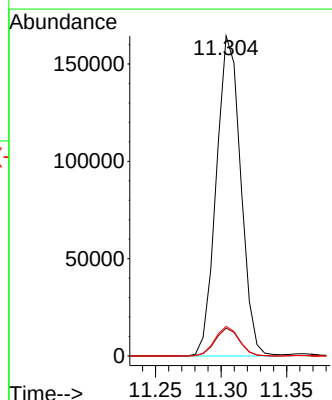
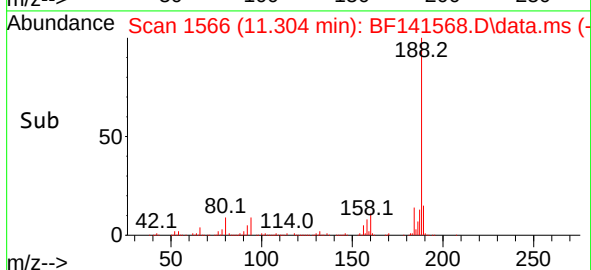
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025

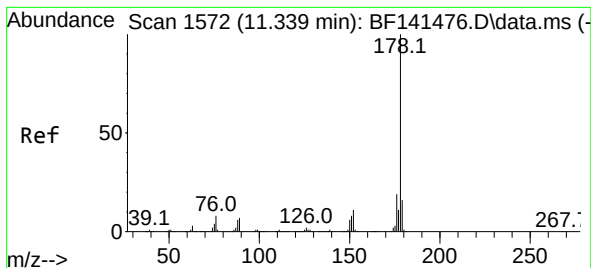


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01



Tgt Ion:188 Resp: 212403
Ion Ratio Lower Upper
188 100
94 8.7 6.6 10.0
80 9.3 7.3 10.9





#71

Phenanthrene

Concen: 40.372 ng

RT: 11.333 min Scan# 1571

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

Tgt Ion:178 Resp: 472019

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.0

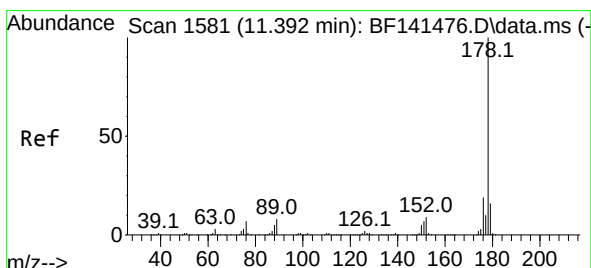
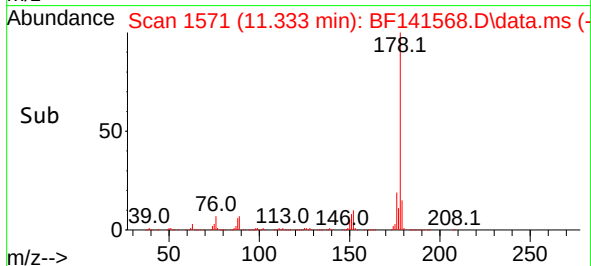
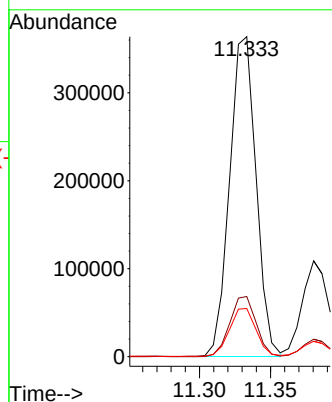
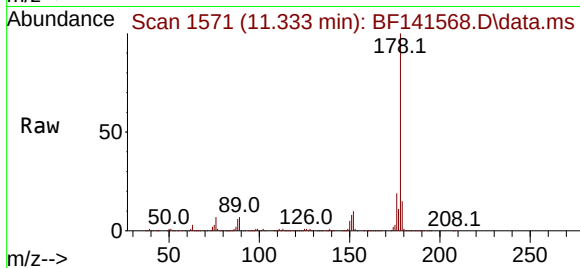
179 15.1 12.4 18.6

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Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025



#72

Anthracene

Concen: 12.426 ng

RT: 11.380 min Scan# 1579

Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

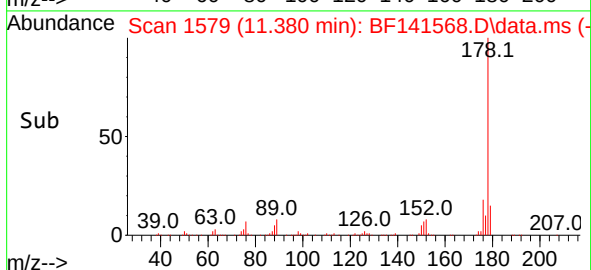
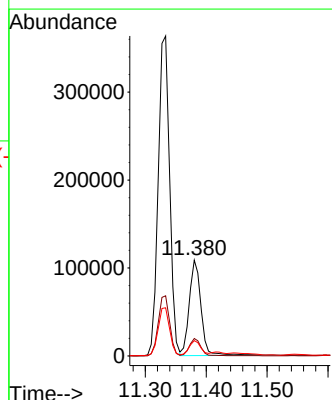
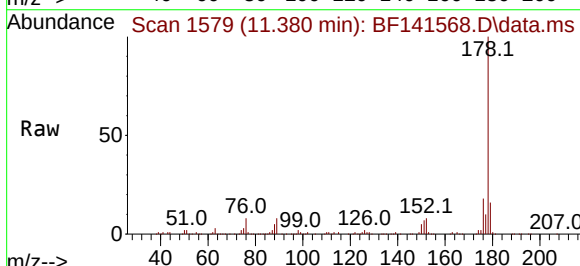
Tgt Ion:178 Resp: 146047

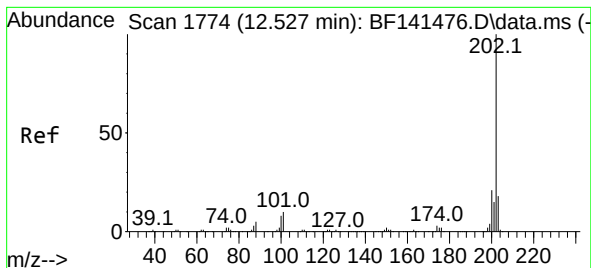
Ion Ratio Lower Upper

178 100

176 18.2 14.8 22.2

179 16.1 12.4 18.6





#75

Fluoranthene

Concen: 11.267 ng

RT: 12.516 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

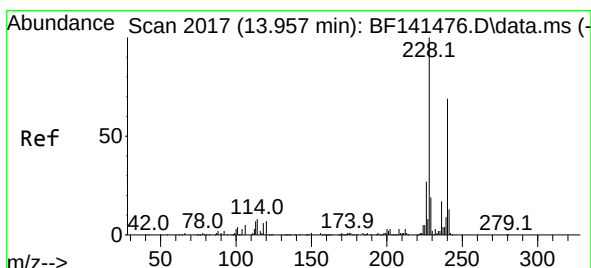
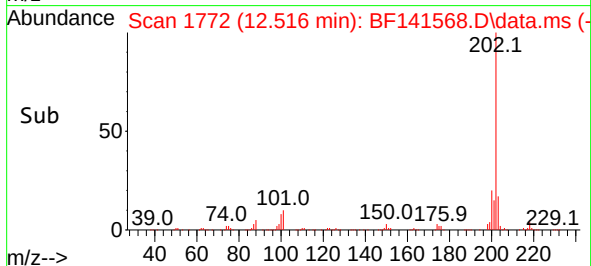
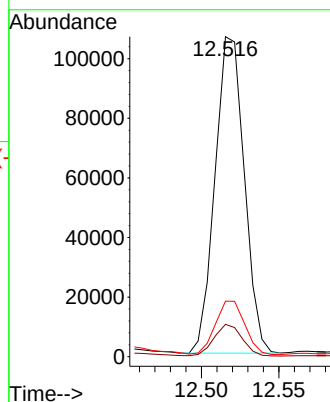
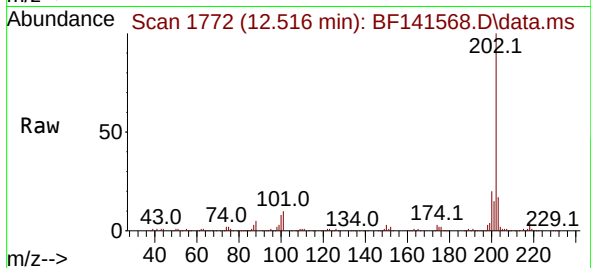
Tgt Ion:202 Resp: 13966
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 30.2
 203 17.4 0.0 37.6

Manual Integrations

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Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025



#76

Chrysene-d12

Concen: 20.000 ng

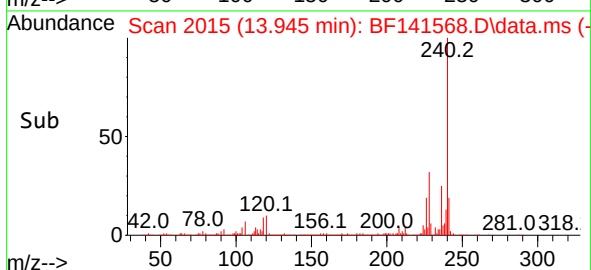
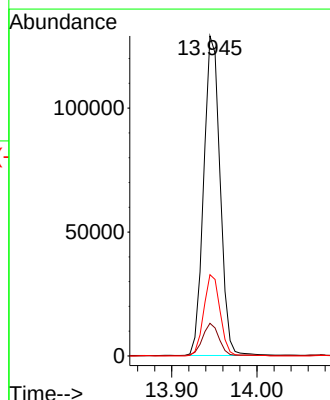
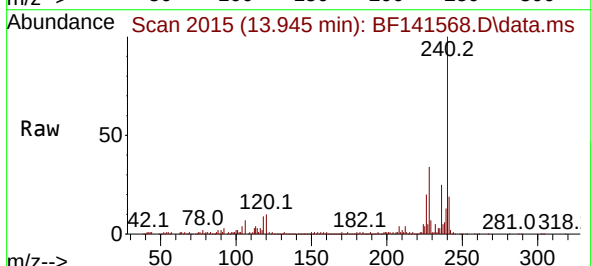
RT: 13.945 min Scan# 2015

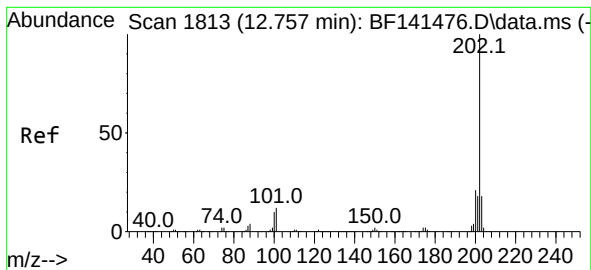
Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Tgt Ion:240 Resp: 171943
 Ion Ratio Lower Upper
 240 100
 120 10.2 8.0 12.0
 236 25.4 19.8 29.8





#78

Pyrene

Concen: 18.743 ng

RT: 12.745 min Scan# 1811

Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

Tgt Ion:202 Resp: 27434

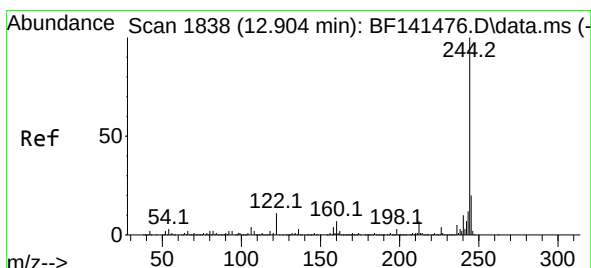
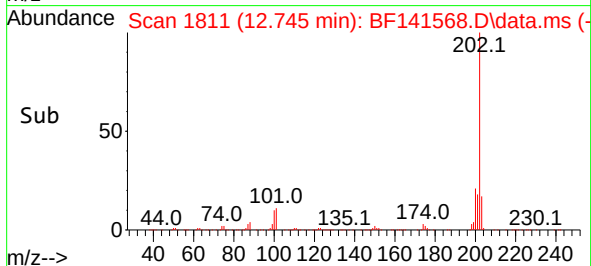
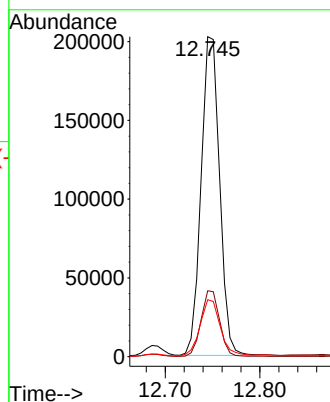
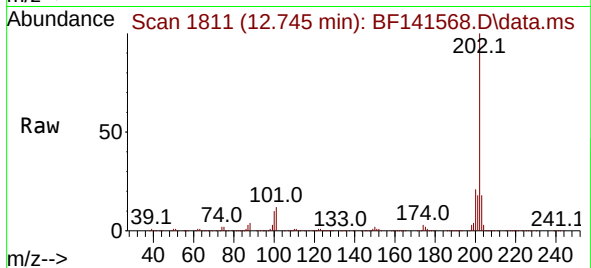
Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.4
203	17.8	14.3	21.5

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Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025



#79

Terphenyl-d14

Concen: 0.584 ng

RT: 12.886 min Scan# 1835

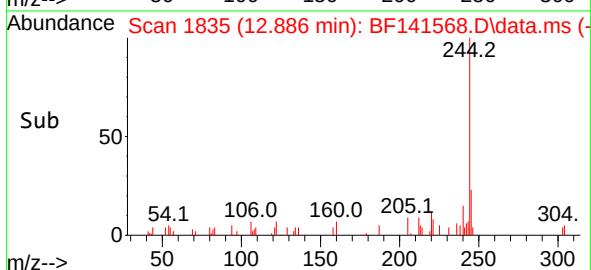
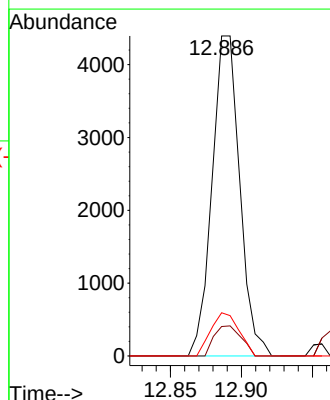
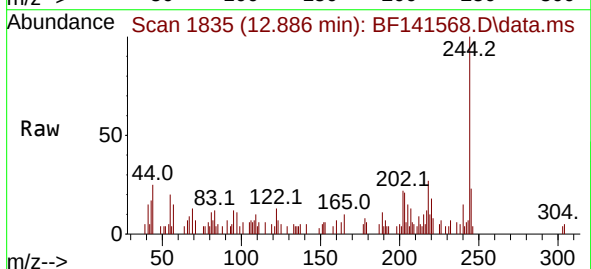
Delta R.T. -0.018 min

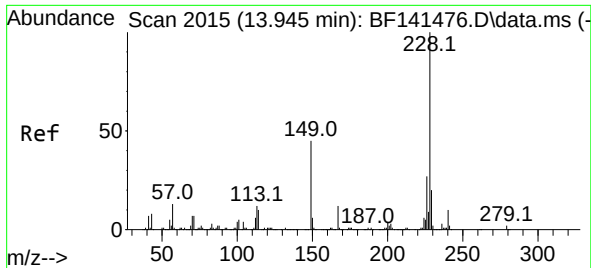
Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Tgt Ion:244 Resp: 5948

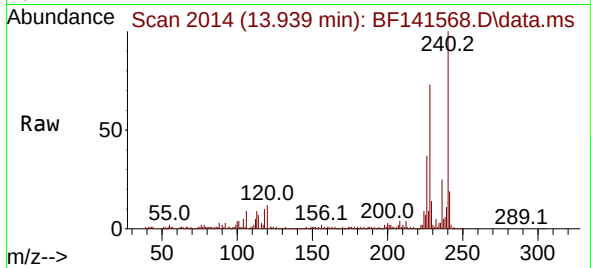
Ion	Ratio	Lower	Upper
244	100		
212	9.2	5.6	8.4#
122	13.5	8.4	12.6#





#81
Benzo(a)anthracene
Concen: 7.954 ng m
RT: 13.939 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

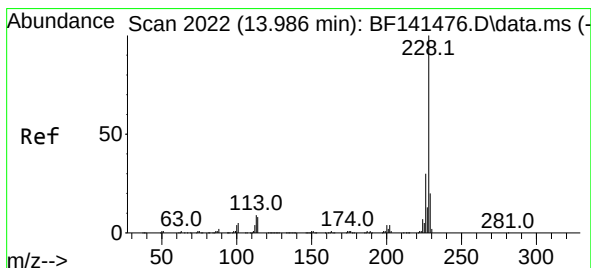
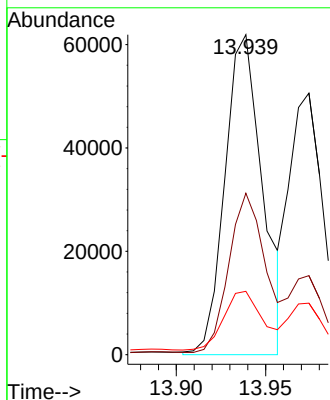
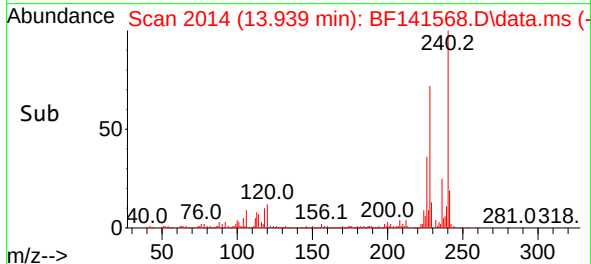
Instrument :
BNA_F
ClientSampleId :
72-11977DL



Tgt Ion:228 Resp: 90910
Ion Ratio Lower Upper
228 100
226 50.4 21.8 32.8
229 19.8 15.8 23.6

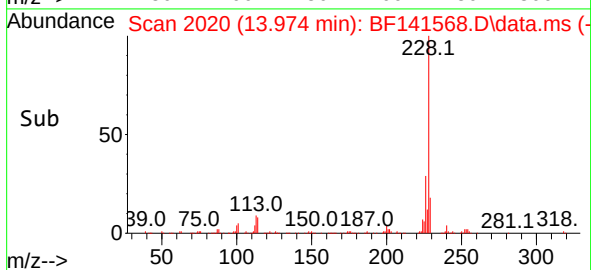
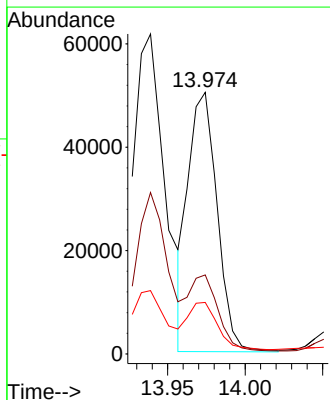
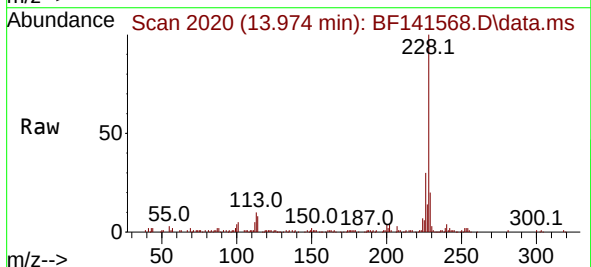
Manual Integrations
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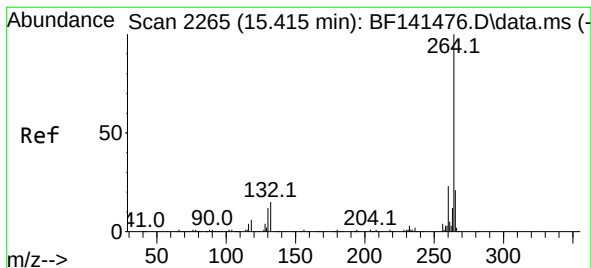
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#83
Chrysene
Concen: 6.186 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.018 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

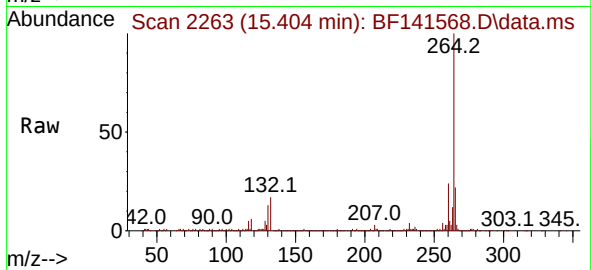
Tgt Ion:228 Resp: 65279
Ion Ratio Lower Upper
228 100
226 30.2 24.0 36.0
229 19.7 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.404 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

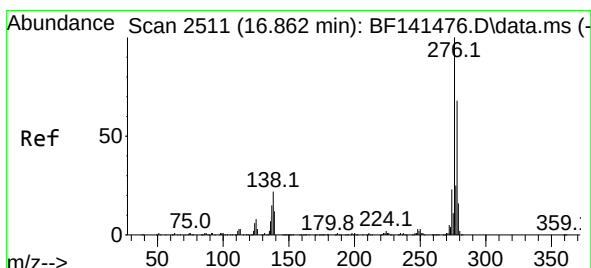
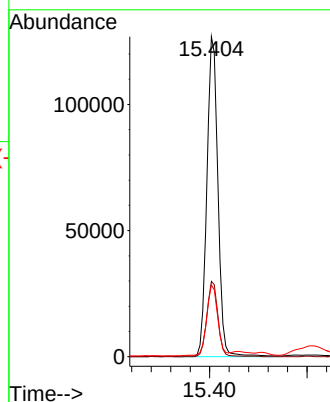
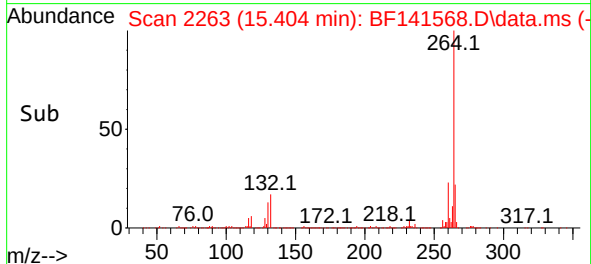
Instrument :
BNA_F
ClientSampleId :
72-11977DL



Tgt Ion:264 Resp: 199200
Ion Ratio Lower Upper
264 100
260 23.6 18.6 28.0
265 22.4 17.0 25.4

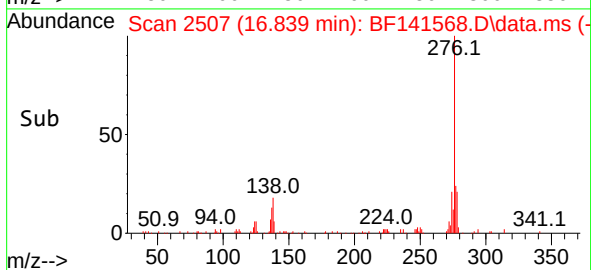
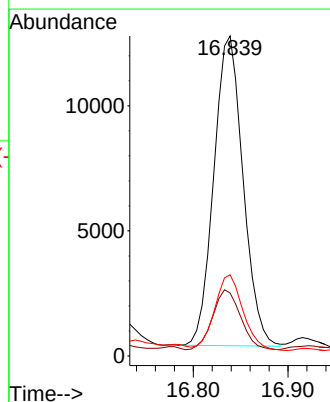
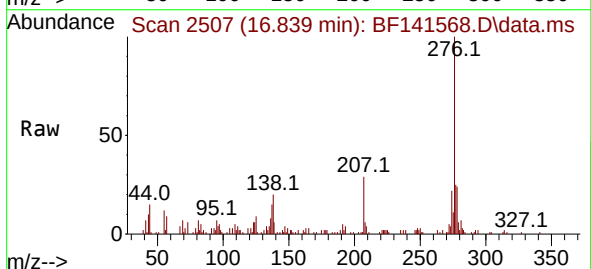
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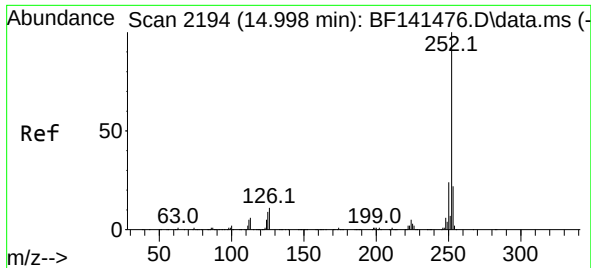
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.154 ng
RT: 16.839 min Scan# 2507
Delta R.T. -0.035 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

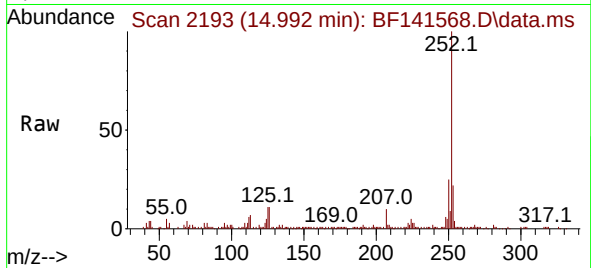
Tgt Ion:276 Resp: 26517
Ion Ratio Lower Upper
276 100
138 19.3 18.0 27.0
277 23.9 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 4.601 ng m
RT: 14.992 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

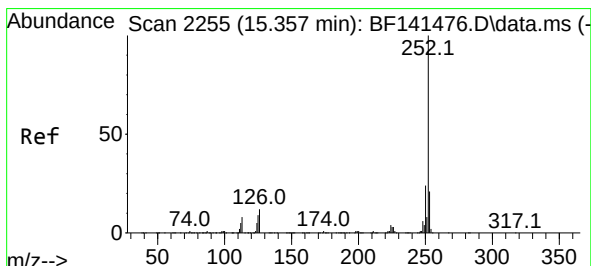
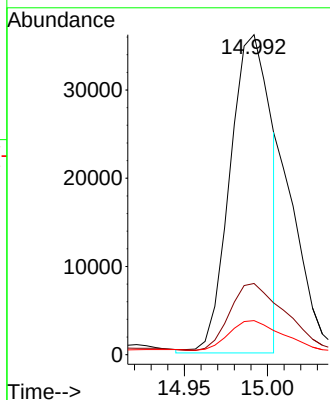
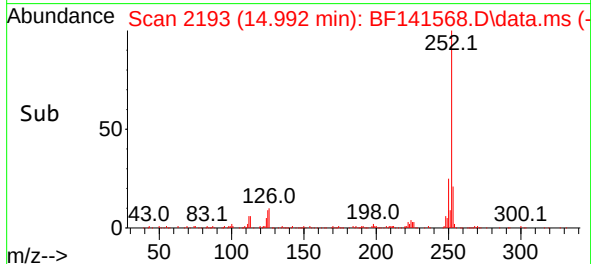
Instrument :
BNA_F
ClientSampleId :
72-11977DL



Tgt Ion:252 Resp: 61536
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 10.6 7.0 10.6

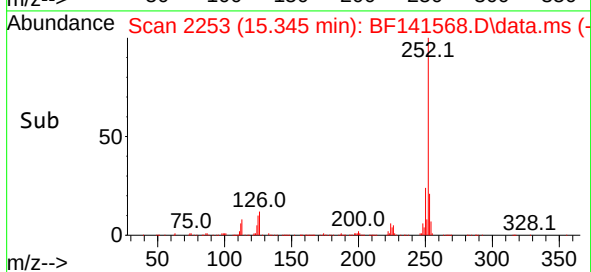
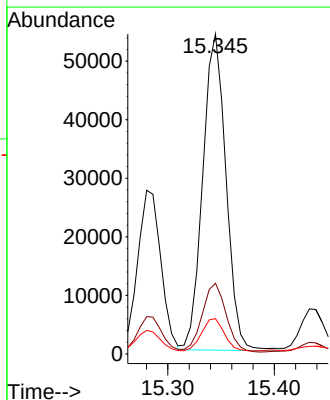
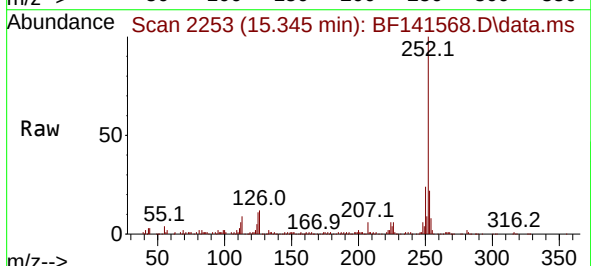
Manual Integrations
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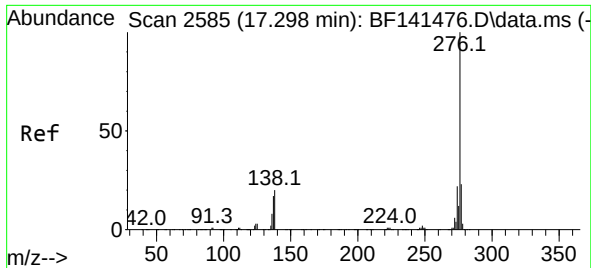
Reviewed By :Yogesh Patel 02/12/2025
Supervised By :mohammad ahmed 02/12/2025



#90
Benzo(a)pyrene
Concen: 7.580 ng
RT: 15.345 min Scan# 2253
Delta R.T. -0.018 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:252 Resp: 82036
Ion Ratio Lower Upper
252 100
253 22.1 17.1 25.7
125 11.1 7.4 11.2





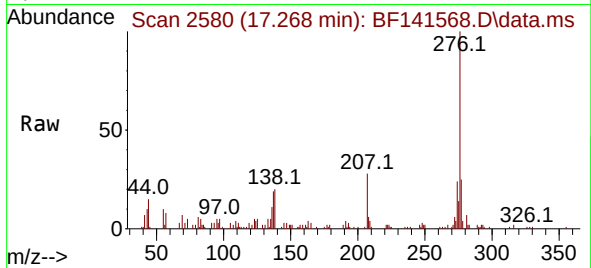
#92
 Benzo(g,h,i)perylene
 Concen: 2.777 ng
 RT: 17.268 min Scan# 21
 Delta R.T. -0.047 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL



Tgt Ion:276 Resp: 28978
 Ion Ratio Lower Upper
 276 100
 277 25.0 18.6 28.0
 138 20.4 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 02/12/2025

Supervised By :mohammad ahmed 02/12/2025

