

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
 Data File : BF141652.D
 Acq On : 14 Feb 2025 20:52
 Operator : RC/JU
 Sample : Q1365-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR22266

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/15/2025
 Supervised By :Jagrut Upadhyay 02/19/2025

Quant Time: Feb 14 22:09:16 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	6.787	152	89575	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	367024	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	189578	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	284152	20.000	ng	0.00
76) Chrysene-d12	13.951	240	184584	20.000	ng	-0.01
86) Perylene-d12	15.398	264	175982	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	483274	84.583	ng	0.00
7) Phenol-d6	6.428	99	611231	84.640	ng	-0.01
23) Nitrobenzene-d5	7.351	82	401393	57.042	ng	-0.01
42) 2,4,6-Tribromophenol	10.610	330	133346	70.020	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	660925	53.711	ng	-0.01
79) Terphenyl-d14	12.892	244	524380	47.959	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.086	128	124507	6.517	ng	99
37) 2-Methylnaphthalene	8.781	142	40028	3.220	ng	99
38) 1-Methylnaphthalene	8.881	142	28273	2.348	ng	97
52) Acenaphthene	9.851	154	83331	7.668	ng	100
55) Dibenzofuran	10.028	168	91276	5.722	ng	97
58) Fluorene	10.369	166	98016	7.947	ng	99
71) Phenanthrene	11.333	178	1035139	66.180	ng	100
72) Anthracene	11.380	178	188025	11.958	ng	97
73) Carbazole	11.539	167	99806	7.055	ng	99
75) Fluoranthene	12.522	202	926035	55.843	ng	100
78) Pyrene	12.751	202	778859	49.568	ng	99
81) Benzo(a)anthracene	13.939	228	365645	29.800	ng	98
83) Chrysene	13.974	228	298826	26.376	ng	98
87) Indeno(1,2,3-cd)pyrene	16.833	276	105517	9.704	ng	98
88) Benzo(b)fluoranthene	14.980	252	312705m	26.464	ng	
89) Benzo(k)fluoranthene	14.992	252	146305m	14.500	ng	
90) Benzo(a)pyrene	15.339	252	216975	22.693	ng	97
91) Dibenzo(a,h)anthracene	16.839	278	29331m	3.329	ng	
92) Benzo(g,h,i)perylene	17.268	276	95051	10.309	ng	99

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

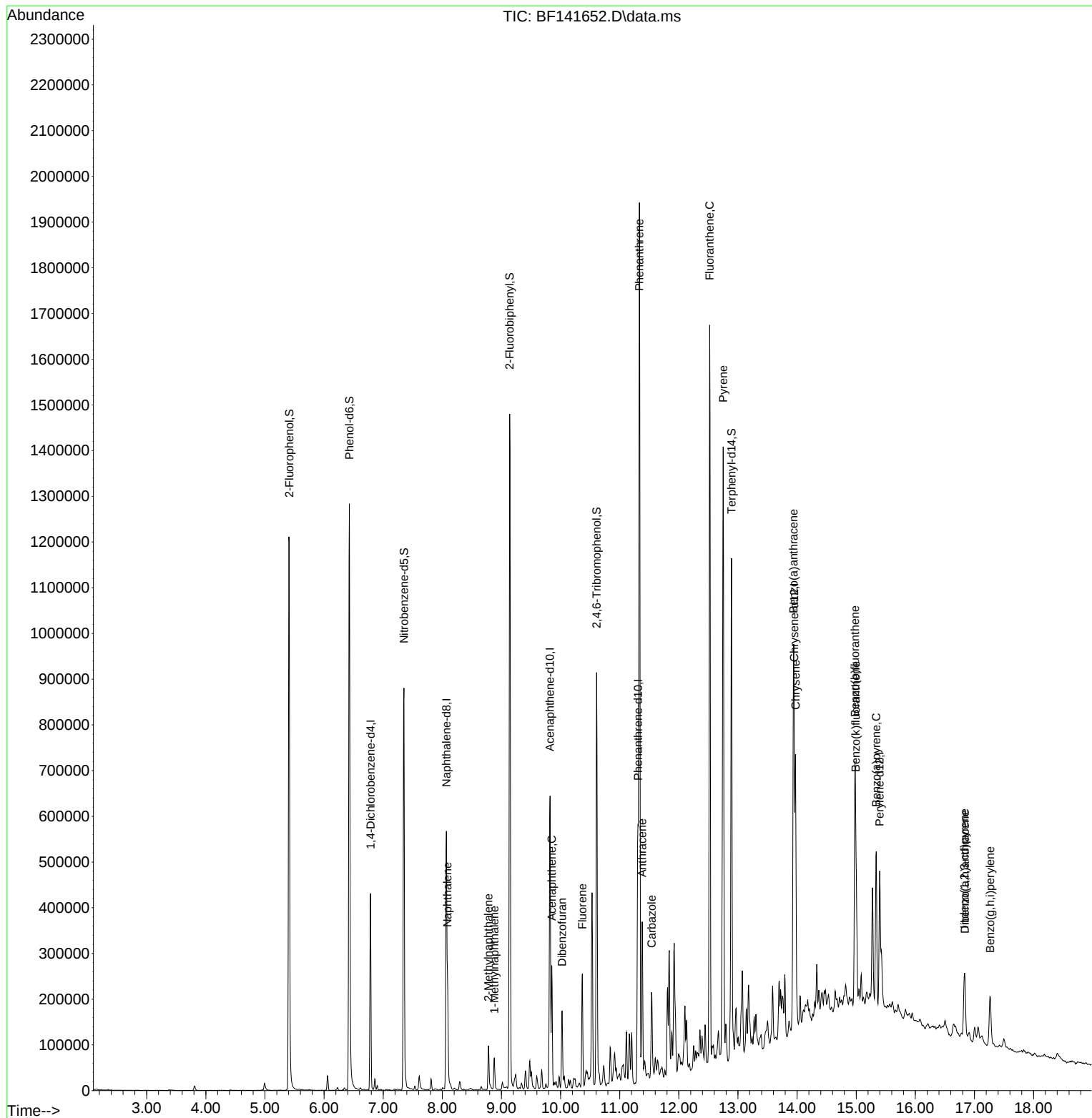
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141652.D
Acq On : 14 Feb 2025 20:52
Operator : RC/JU
Sample : Q1365-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

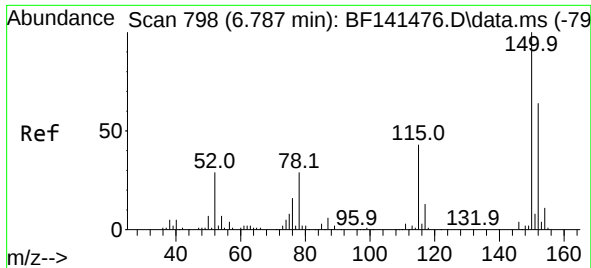
Instrument :
BNA_F
ClientSampleId :
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Quant Time: Feb 14 22:09:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
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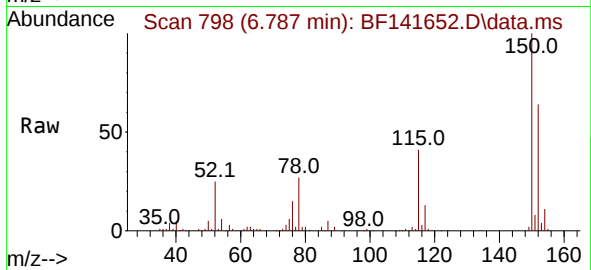
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.005 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

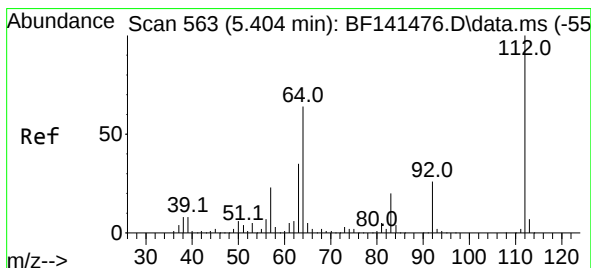
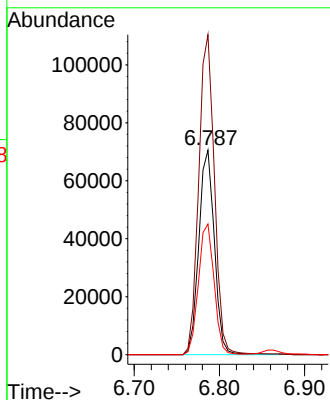
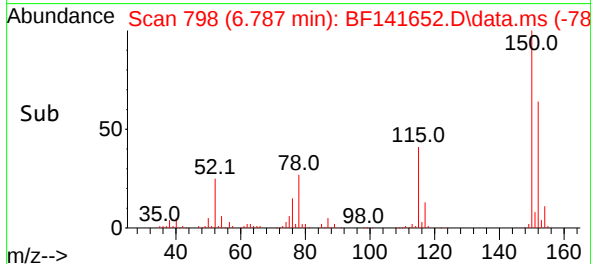
Instrument :
BNA_F
ClientSampleId :
RBR22266



Tgt Ion:152 Resp: 89574
Ion Ratio Lower Upper
152 100
150 156.5 125.0 187.4
115 63.9 53.6 80.4

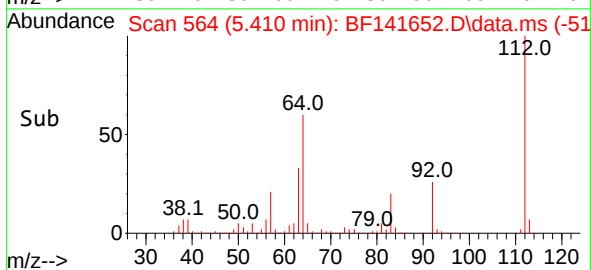
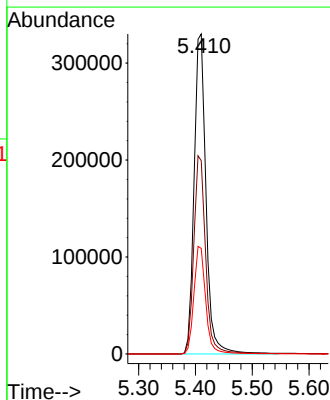
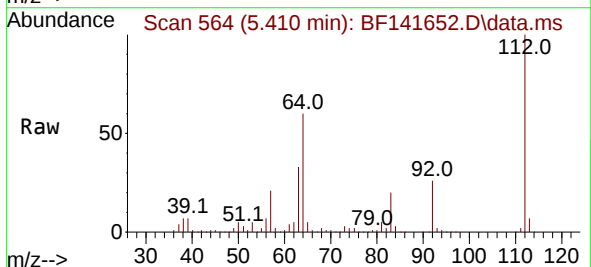
Manual Integrations
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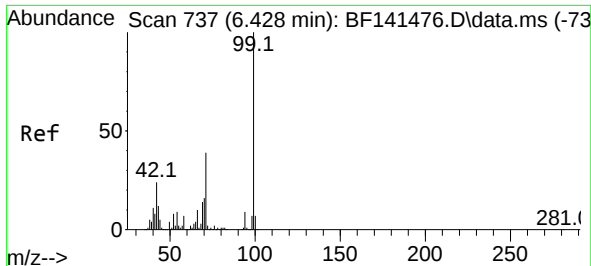
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#5
2-Fluorophenol
Concen: 84.583 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

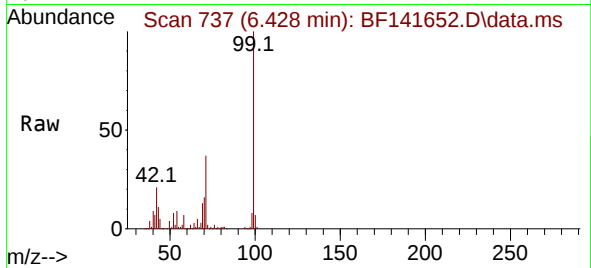
Tgt Ion:112 Resp: 483274
Ion Ratio Lower Upper
112 100
64 60.4 51.1 76.7
63 33.0 28.4 42.6





#7
Phenol-d6
Concen: 84.640 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

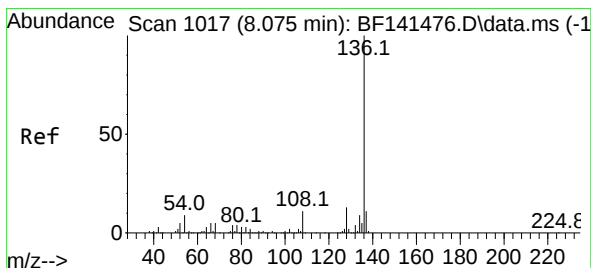
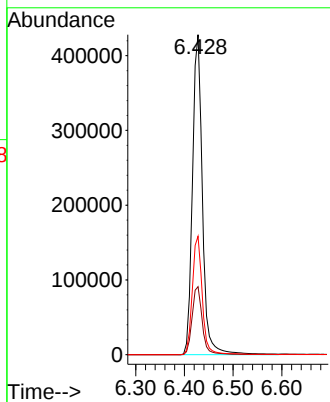
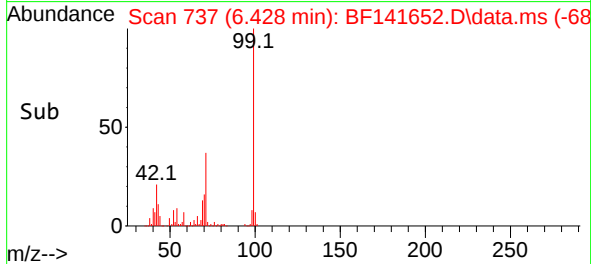
Instrument :
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ClientSampleId :
RBR22266



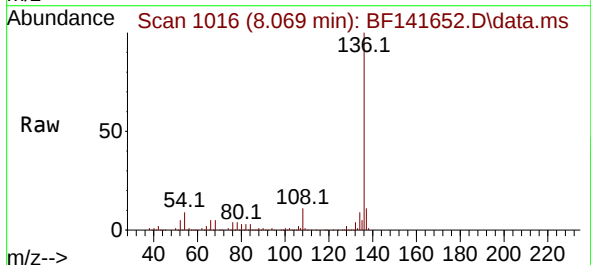
Tgt Ion: 99 Resp: 61123
Ion Ratio Lower Upper
99 100
42 21.3 19.1 28.7
71 37.0 31.1 46.7

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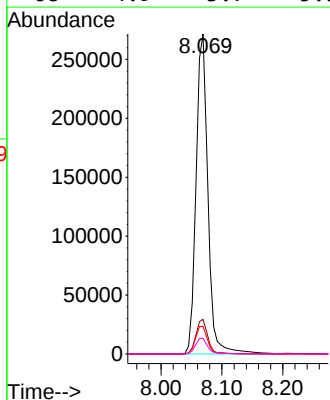
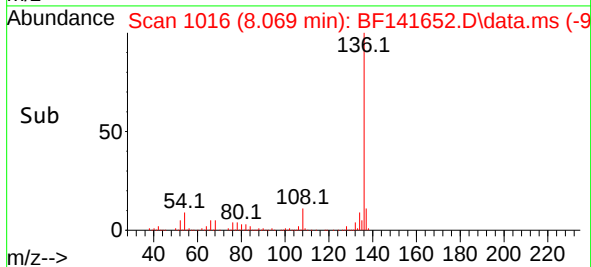
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

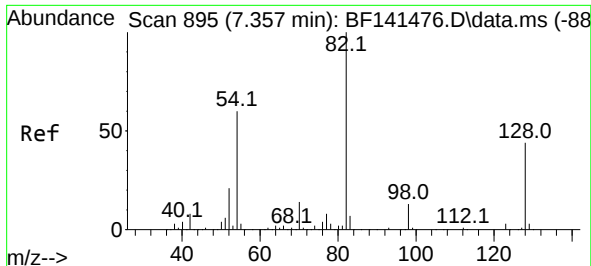


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52



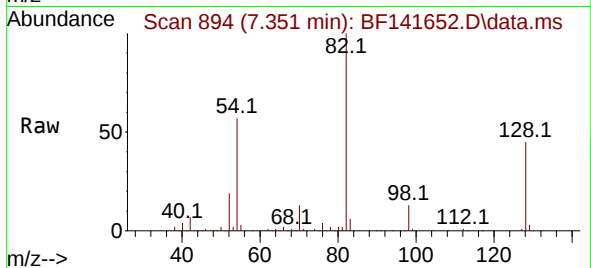
Tgt Ion:136 Resp: 367024
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.7 7.2 10.8
68 4.9 3.7 5.5





#23
Nitrobenzene-d5
Concen: 57.042 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

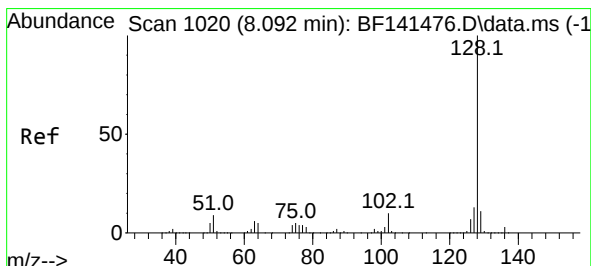
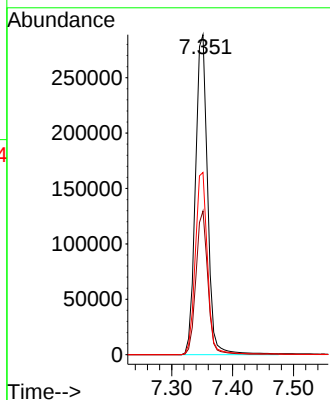
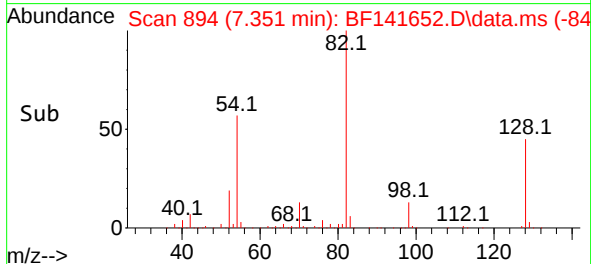
Instrument :
BNA_F
ClientSampleId :
RBR22266



Tgt Ion: 82 Resp: 40139
Ion Ratio Lower Upper
82 100
128 44.9 34.8 52.2
54 56.9 48.2 72.4

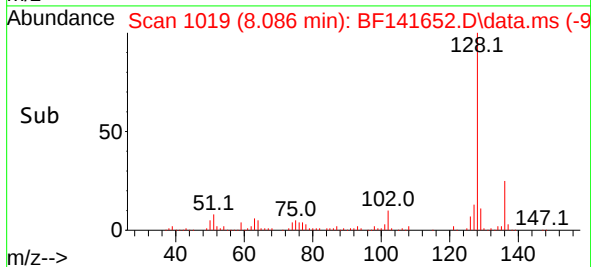
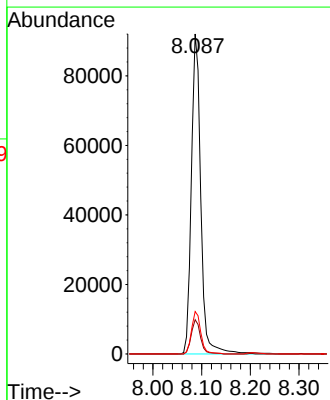
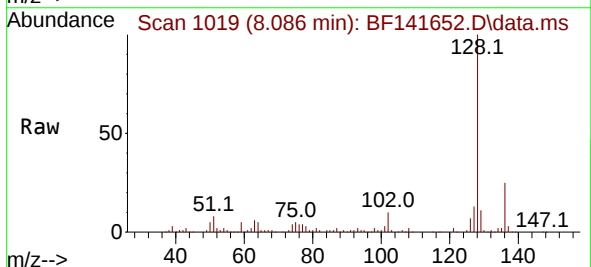
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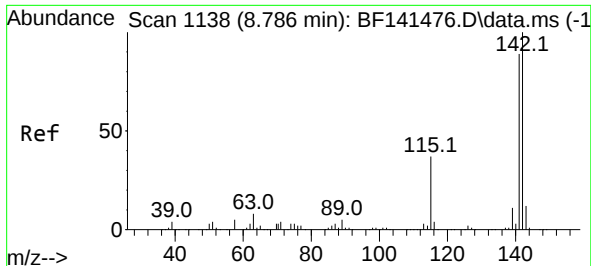
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#31
Naphthalene
Concen: 6.517 ng
RT: 8.086 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

Tgt Ion:128 Resp: 124507
Ion Ratio Lower Upper
128 100
129 10.7 8.9 13.3
127 13.2 10.7 16.1





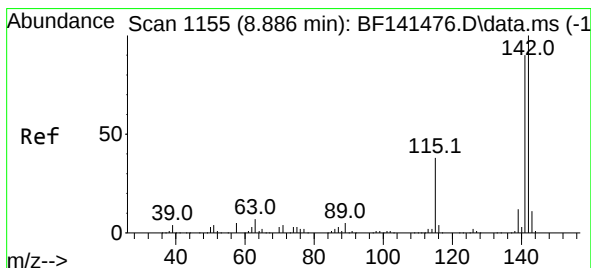
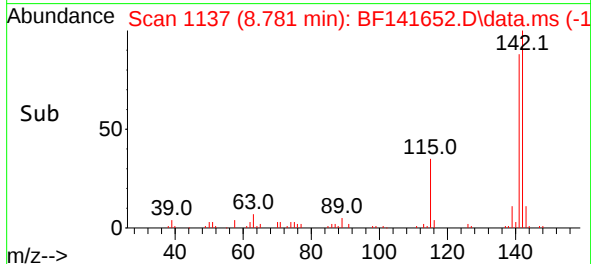
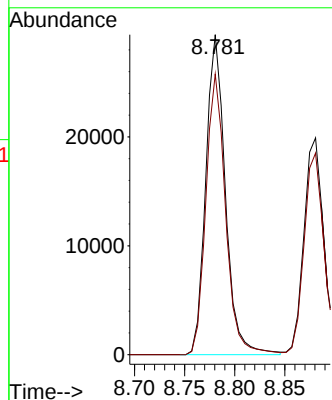
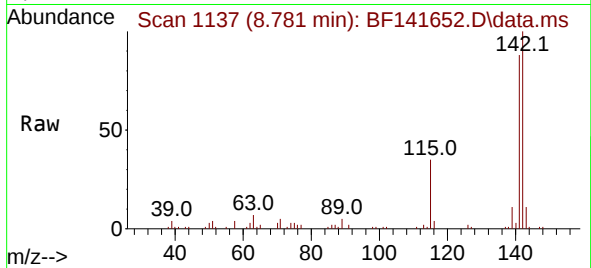
#37
2-Methylnaphthalene
Concen: 3.220 ng
RT: 8.781 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

Instrument :
BNA_F
ClientSampleId :
RBR22266

Tgt Ion:142 Resp: 40028
Ion Ratio Lower Upper
142 100
141 87.7 71.2 106.8

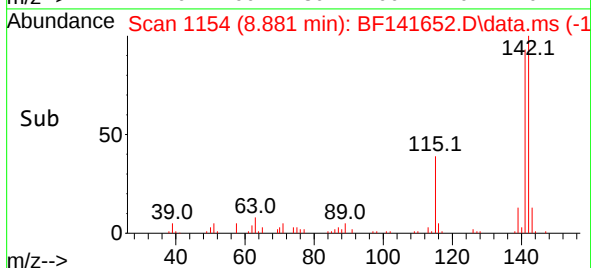
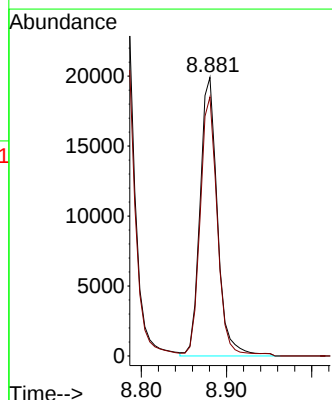
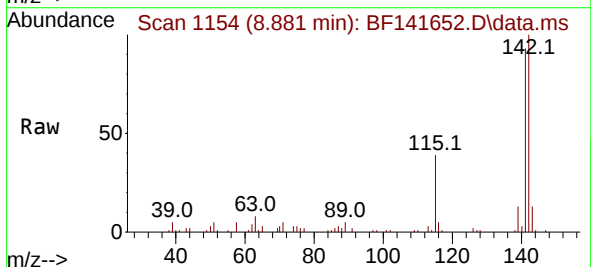
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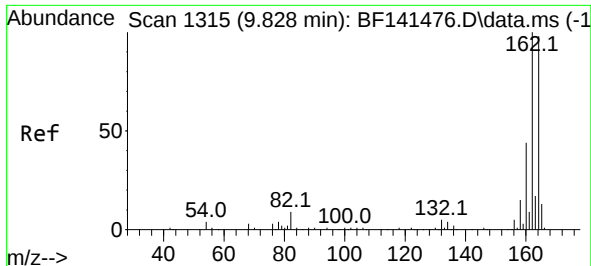
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#38
1-Methylnaphthalene
Concen: 2.348 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

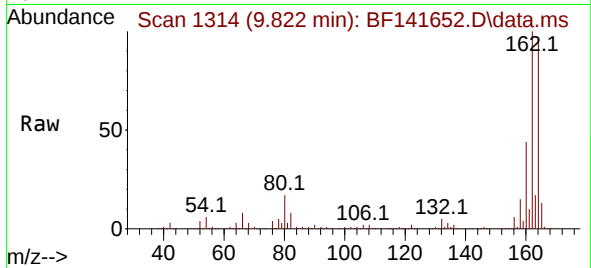
Tgt Ion:142 Resp: 28273
Ion Ratio Lower Upper
142 100
141 93.0 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

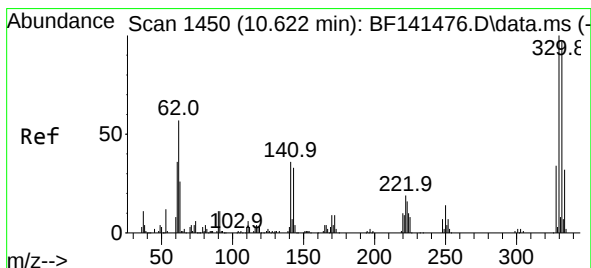
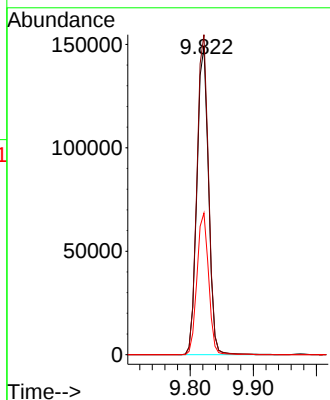
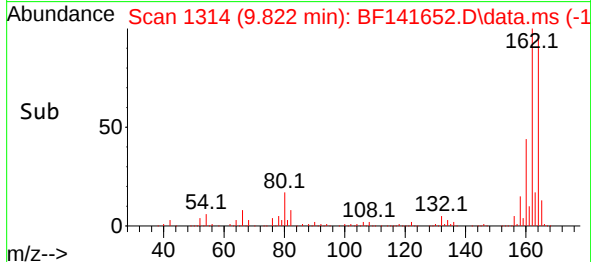
Instrument :
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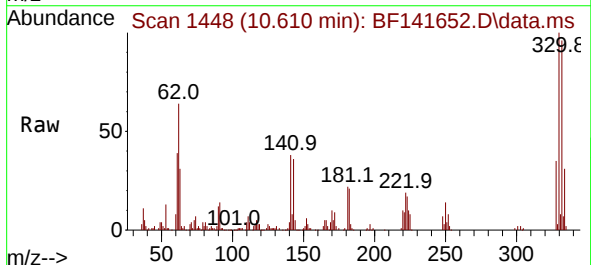
Tgt Ion:164 Resp: 189578
Ion Ratio Lower Upper
164 100
162 104.0 81.3 121.9
160 46.0 35.9 53.9

Manual Integrations
APPROVED

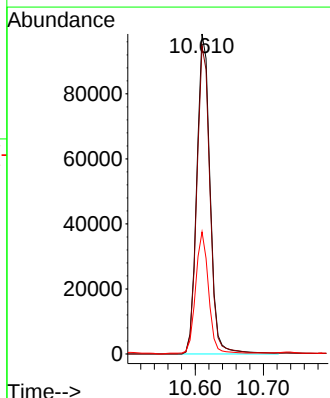
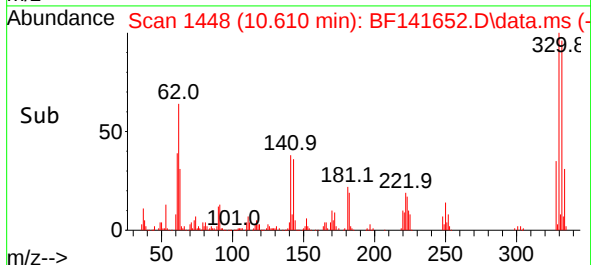
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

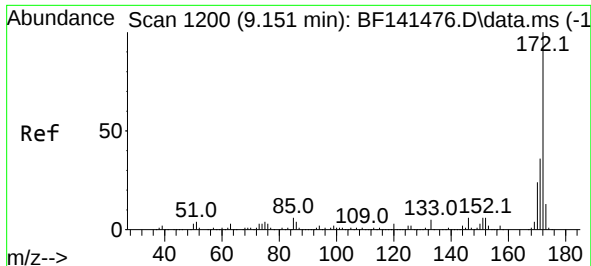


#42
2,4,6-Tribromophenol
Concen: 70.020 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.018 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52



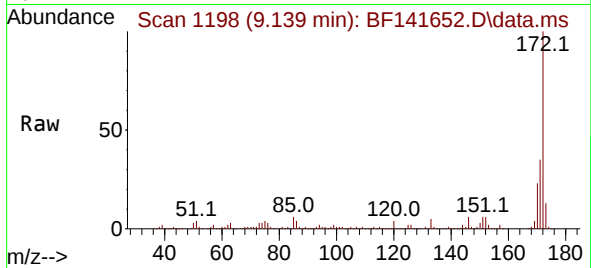
Tgt Ion:330 Resp: 133346
Ion Ratio Lower Upper
330 100
332 95.7 78.5 117.7
141 37.9 31.0 46.4





#45
2-Fluorobiphenyl
Concen: 53.711 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

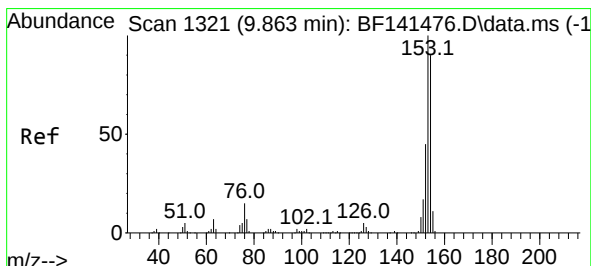
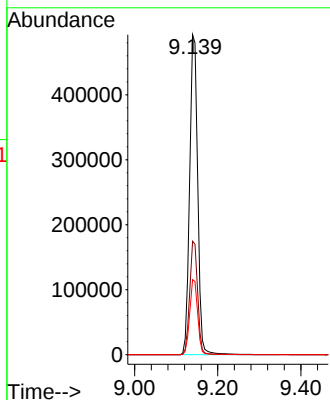
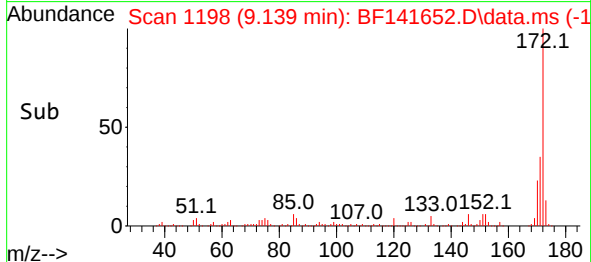
Instrument :
BNA_F
ClientSampleId :
RBR22266



Tgt Ion:172 Resp: 66092
Ion Ratio Lower Upper
172 100
171 35.4 28.7 43.1
170 23.5 18.9 28.3

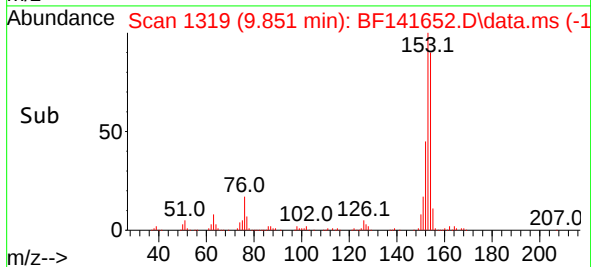
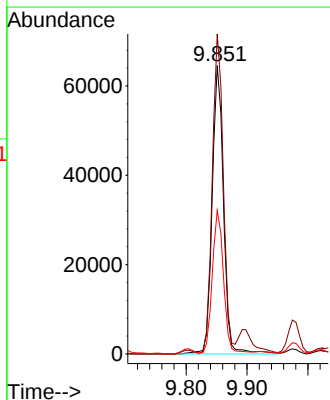
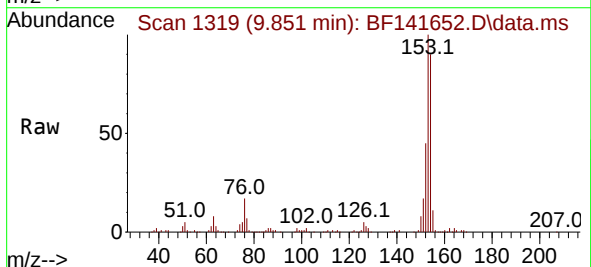
Manual Integrations
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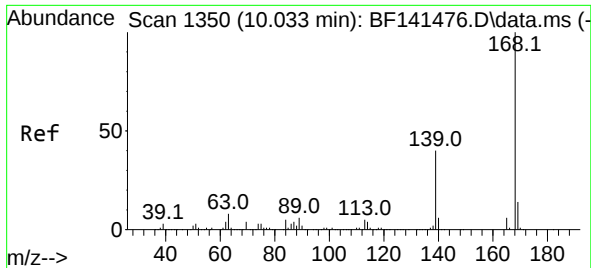
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#52
Acenaphthene
Concen: 7.668 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

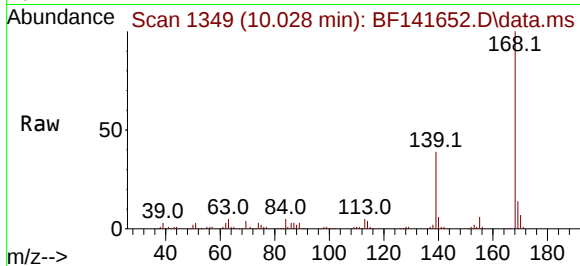
Tgt Ion:154 Resp: 83331
Ion Ratio Lower Upper
154 100
153 111.0 89.2 133.8
152 49.8 39.8 59.8





#55
Dibenzofuran
Concen: 5.722 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

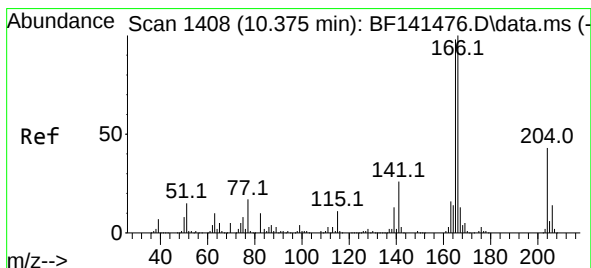
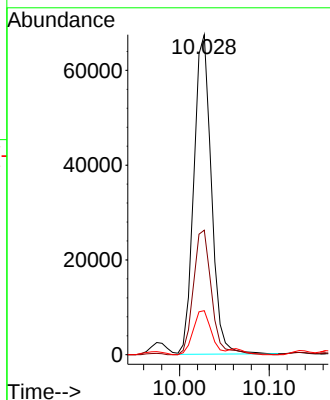
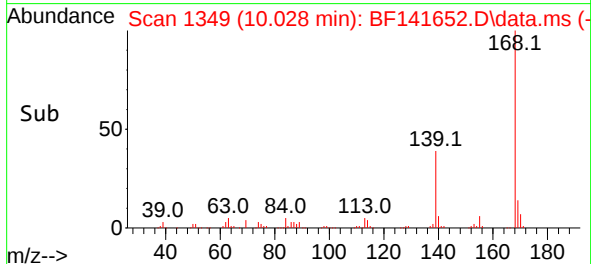
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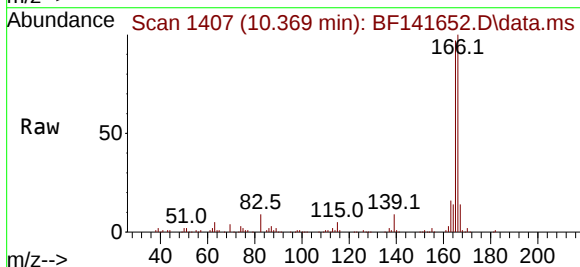
Tgt Ion:168 Resp: 91270
Ion Ratio Lower Upper
168 100
139 38.9 32.7 49.1
169 13.8 10.8 16.2

Manual Integrations
APPROVED

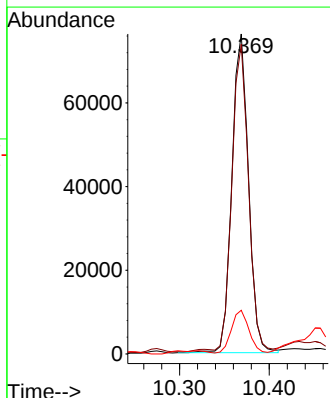
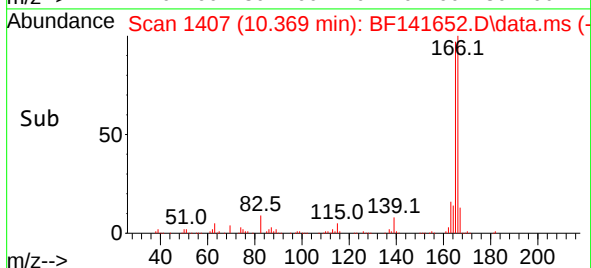
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

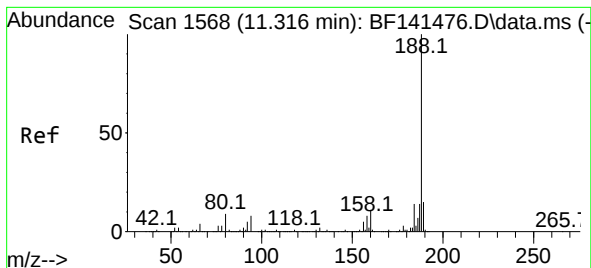


#58
Fluorene
Concen: 7.947 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52



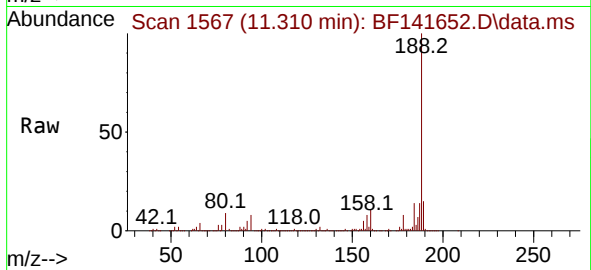
Tgt Ion:166 Resp: 98016
Ion Ratio Lower Upper
166 100
165 96.8 78.2 117.2
167 13.7 10.7 16.1





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

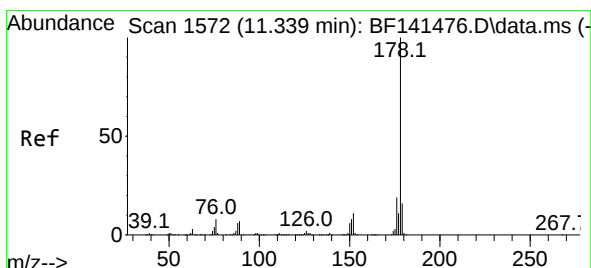
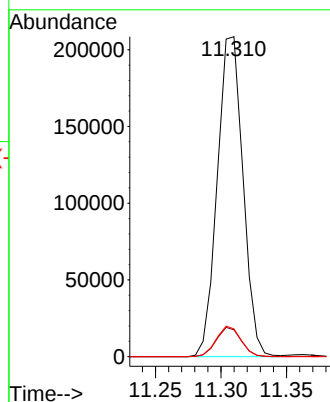
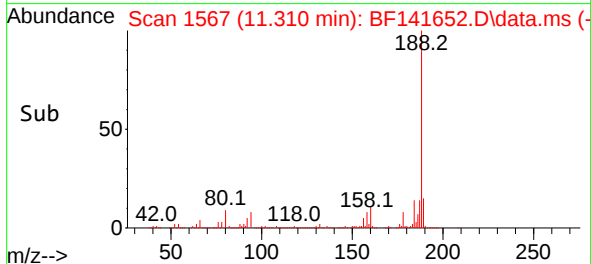
Instrument :
BNA_F
ClientSampleId :
RBR22266



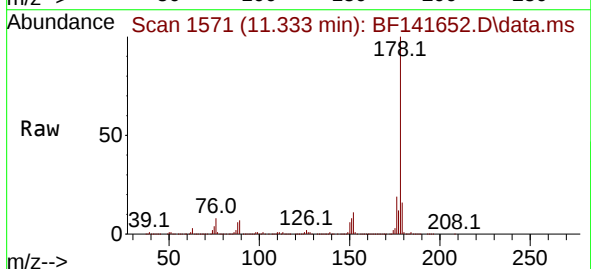
Tgt Ion:188 Resp: 284152
Ion Ratio Lower Upper
188 100
94 8.4 6.6 10.0
80 8.7 7.3 10.9

Manual Integrations
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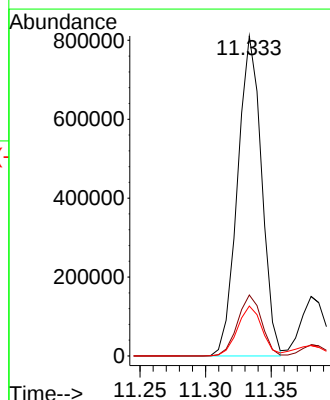
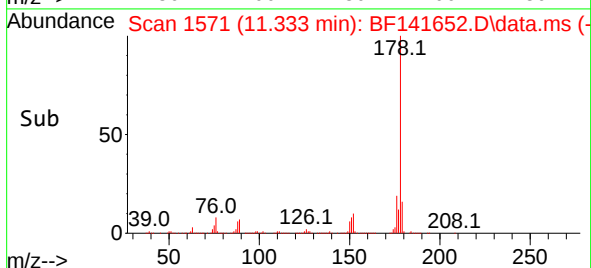
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

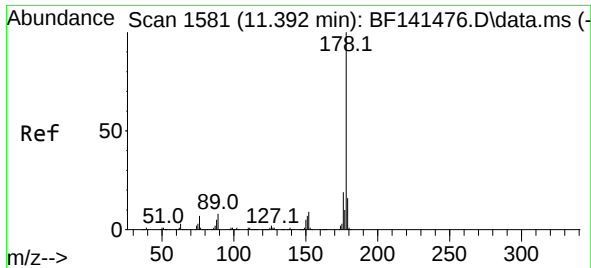


#71
Phenanthrene
Concen: 66.180 ng
RT: 11.333 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52



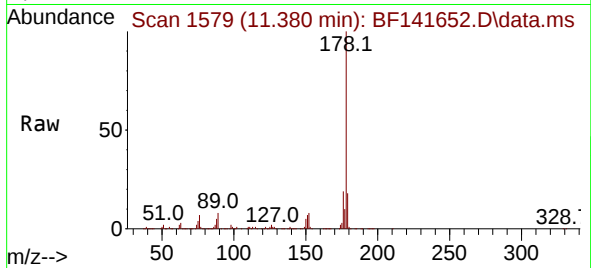
Tgt Ion:178 Resp: 1035139
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.6 12.4 18.6





#72
 Anthracene
 Concen: 11.958 ng
 RT: 11.380 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: BF141652.D
 Acq: 14 Feb 2025 20:52

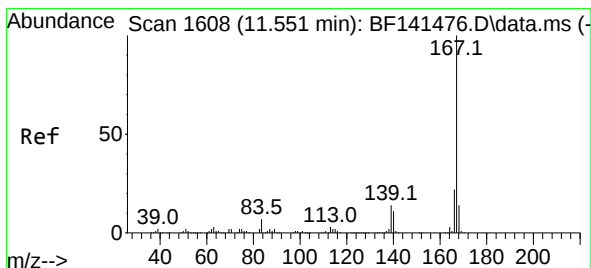
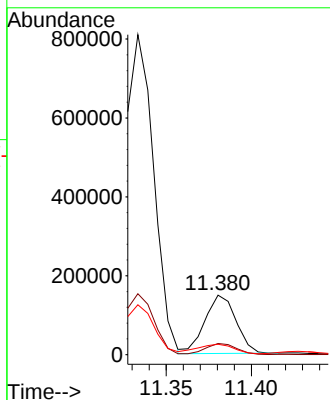
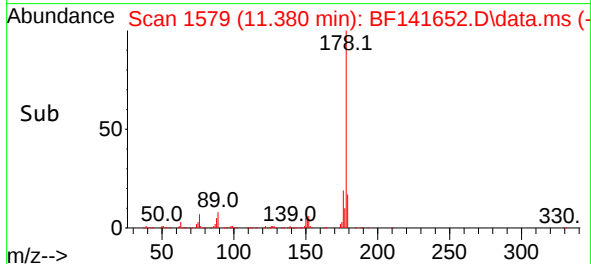
Instrument :
 BNA_F
 ClientSampleId :
 RBR22266



Tgt Ion:178 Resp: 188025
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.8 22.2
 179 17.5 12.4 18.6

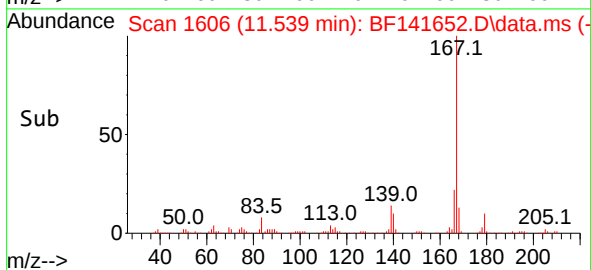
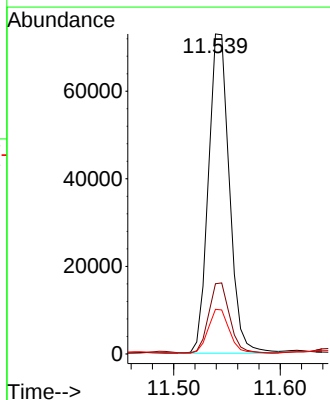
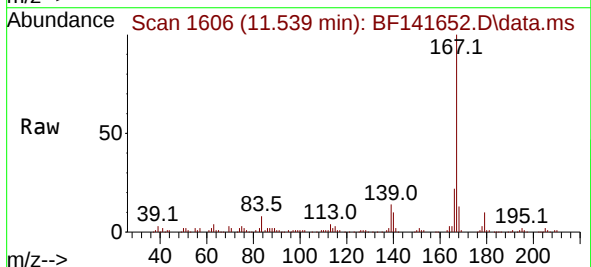
Manual Integrations
 APPROVED

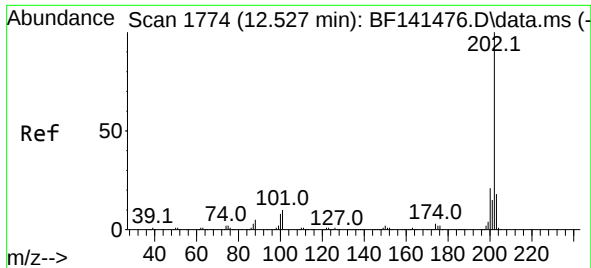
Reviewed By :Yogesh Patel 02/15/2025
 Supervised By :Jagrut Upadhyay 02/19/2025



#73
 Carbazole
 Concen: 7.055 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141652.D
 Acq: 14 Feb 2025 20:52

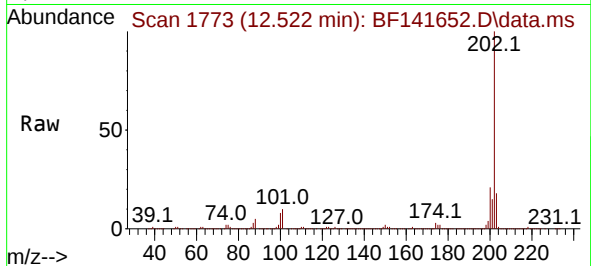
Tgt Ion:167 Resp: 99806
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.2
 139 13.9 10.9 16.3





#75
Fluoranthene
Concen: 55.843 ng
RT: 12.522 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

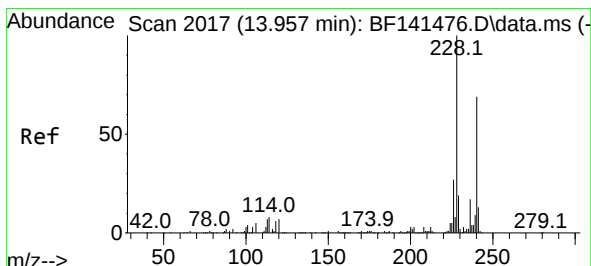
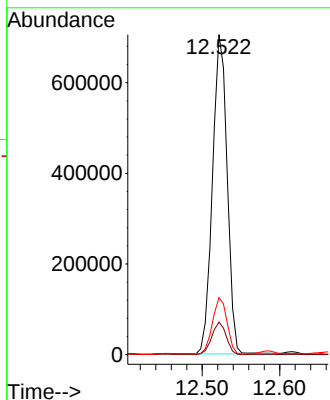
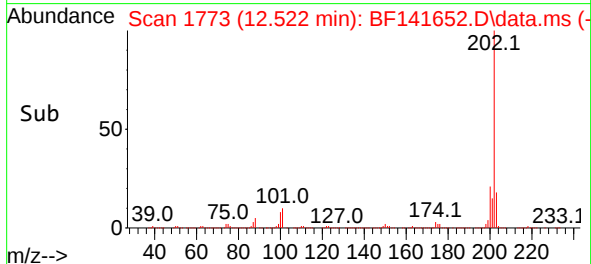
Instrument :
BNA_F
ClientSampleId :
RBR22266



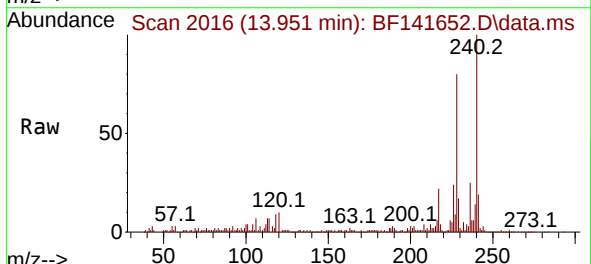
Tgt Ion:202 Resp: 926035
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.2
203 17.9 0.0 37.6

Manual Integrations
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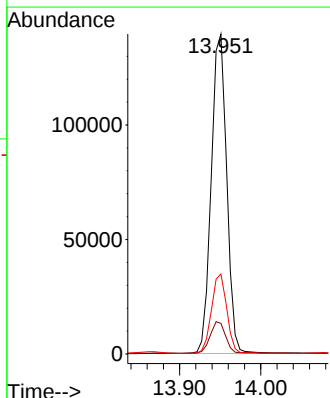
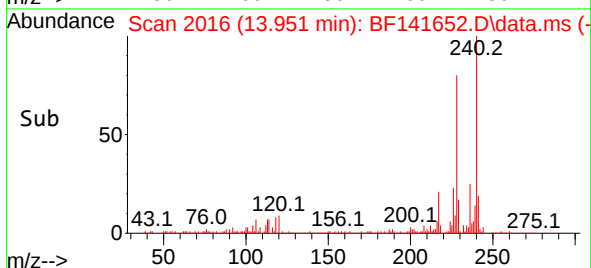
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

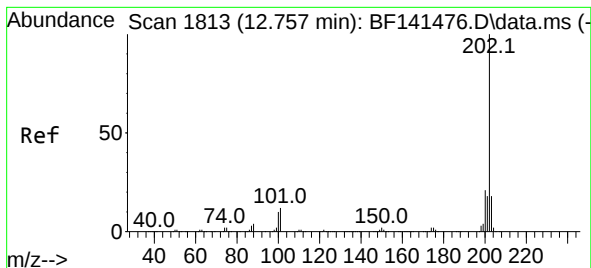


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52



Tgt Ion:240 Resp: 184584
Ion Ratio Lower Upper
240 100
120 9.6 8.0 12.0
236 25.0 19.8 29.8





#78

Pyrene

Concen: 49.568 ng

RT: 12.751 min Scan# 1812

Delta R.T. -0.012 min

Lab File: BF141652.D

Acq: 14 Feb 2025 20:52

Instrument :

BNA_F

ClientSampleId :

RBR22266

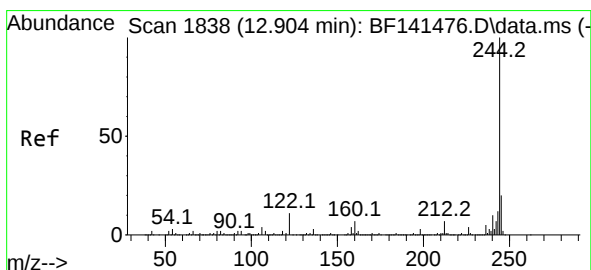
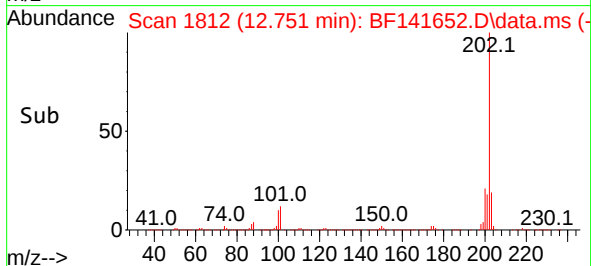
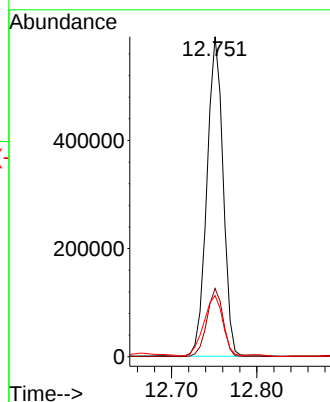
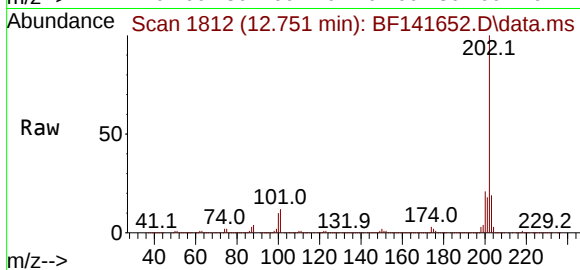
Tgt Ion:202	Resp: 77885
Ion Ratio	Lower Upper
202 100	
200 21.3	17.0 25.4
203 19.1	14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2025

Supervised By :Jagrut Upadhyay 02/19/2025



#79

Terphenyl-d14

Concen: 47.959 ng

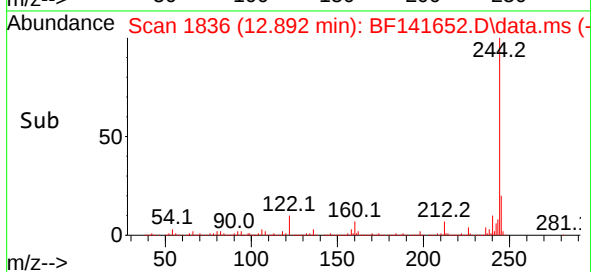
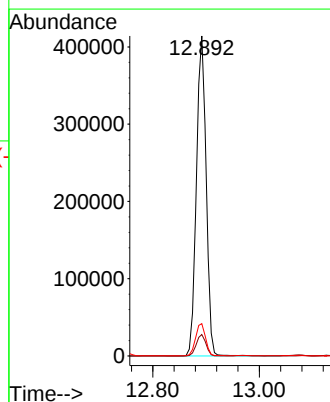
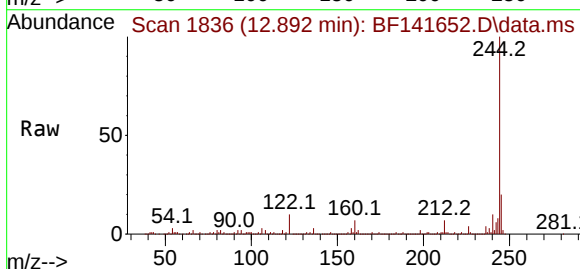
RT: 12.892 min Scan# 1836

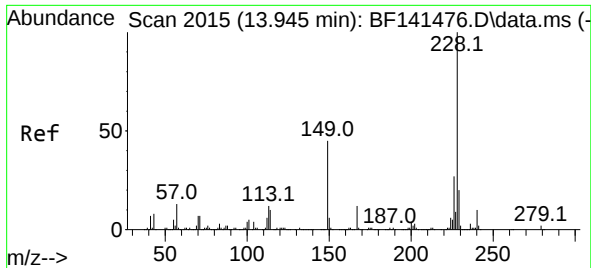
Delta R.T. -0.012 min

Lab File: BF141652.D

Acq: 14 Feb 2025 20:52

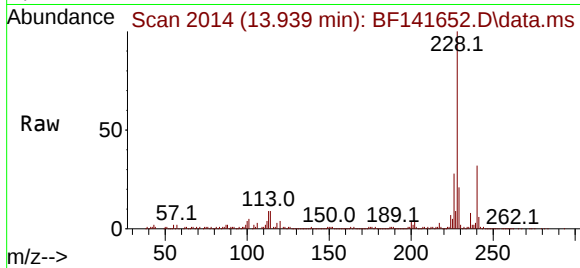
Tgt Ion:244	Resp: 524380
Ion Ratio	Lower Upper
244 100	
212 6.7	5.6 8.4
122 10.1	8.4 12.6





#81
Benzo(a)anthracene
Concen: 29.800 ng
RT: 13.939 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

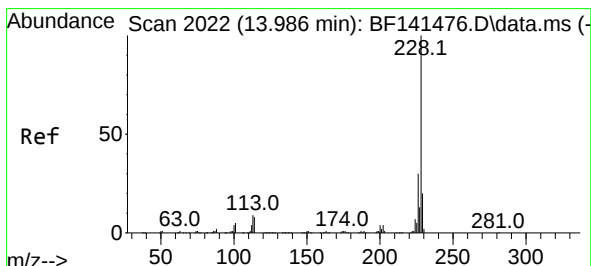
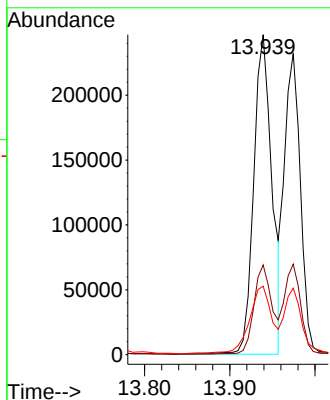
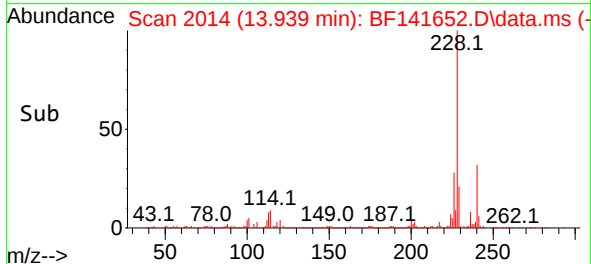
Instrument :
BNA_F
ClientSampleId :
RBR22266



Tgt Ion:228 Resp: 36564
Ion Ratio Lower Upper
228 100
226 28.1 21.8 32.8
229 21.4 15.8 23.6

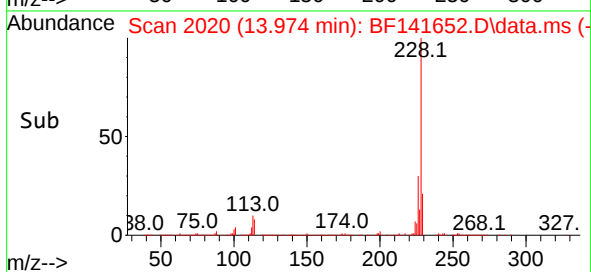
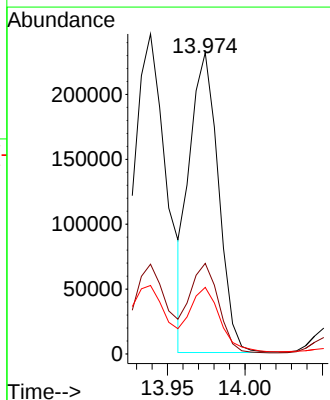
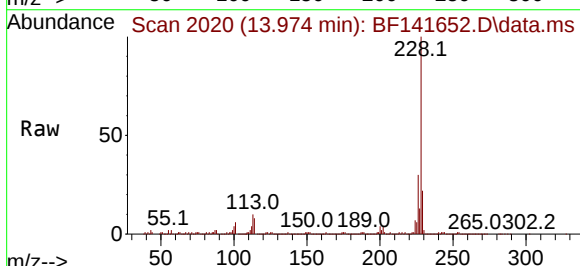
Manual Integrations
APPROVED

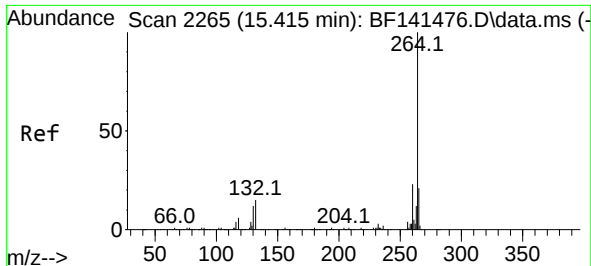
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#83
Chrysene
Concen: 26.376 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.018 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

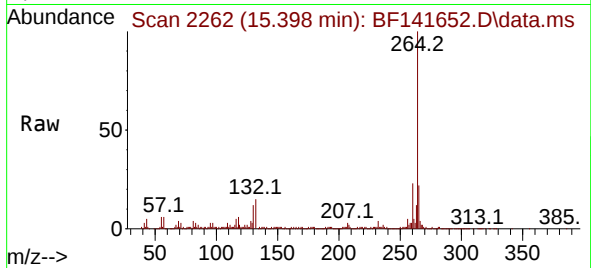
Tgt Ion:228 Resp: 298826
Ion Ratio Lower Upper
228 100
226 30.0 24.0 36.0
229 22.1 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.398 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

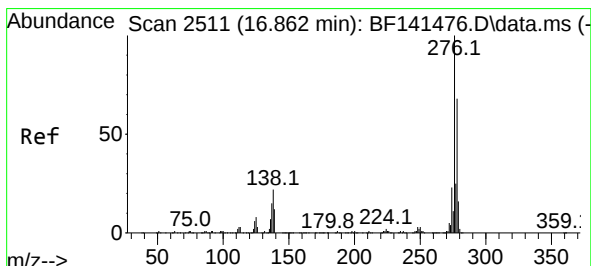
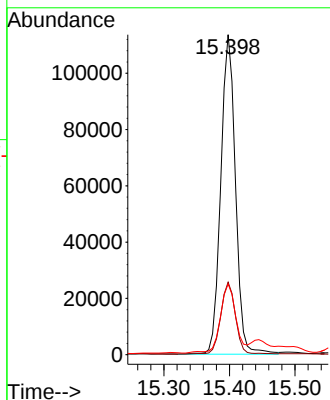
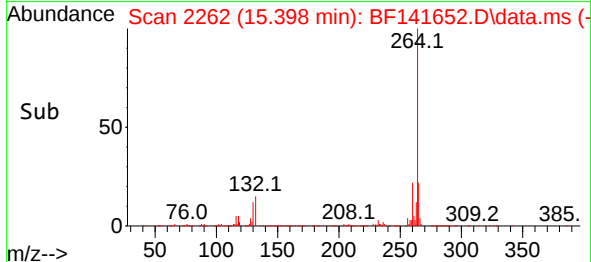
Instrument :
BNA_F
ClientSampleId :
RBR22266



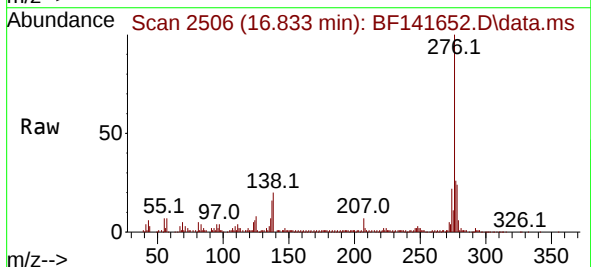
Tgt Ion:264 Resp: 17598
Ion Ratio Lower Upper
264 100
260 22.7 18.6 28.0
265 22.1 17.0 25.4

Manual Integrations
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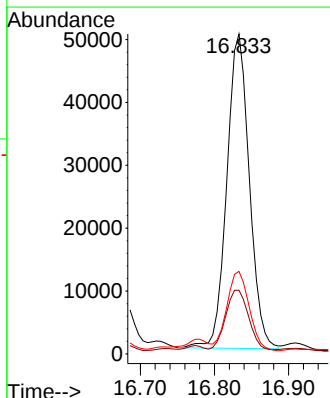
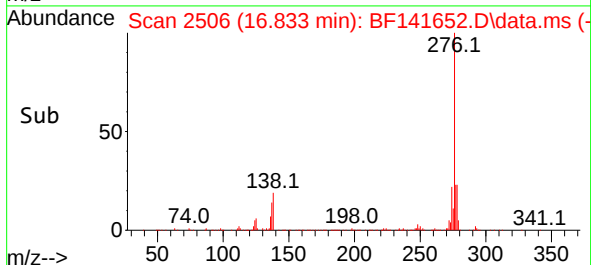
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

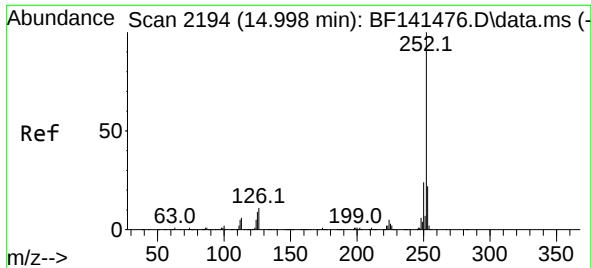


#87
Indeno(1,2,3-cd)pyrene
Concen: 9.704 ng
RT: 16.833 min Scan# 2506
Delta R.T. -0.041 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52



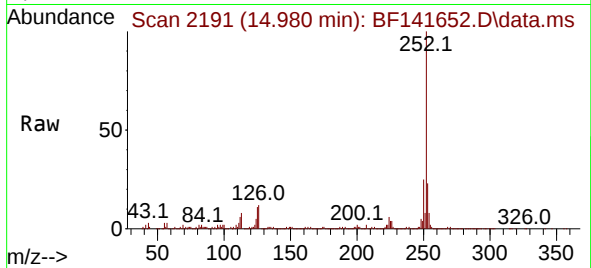
Tgt Ion:276 Resp: 105517
Ion Ratio Lower Upper
276 100
138 20.6 18.0 27.0
277 25.1 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 26.464 ng m
RT: 14.980 min Scan# 2190
Delta R.T. -0.023 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

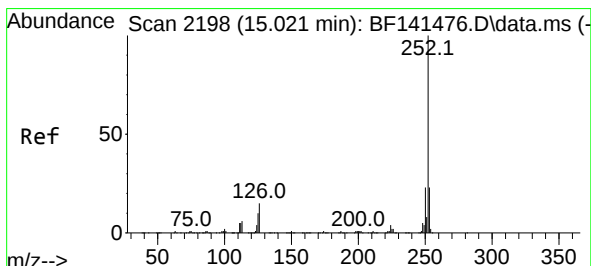
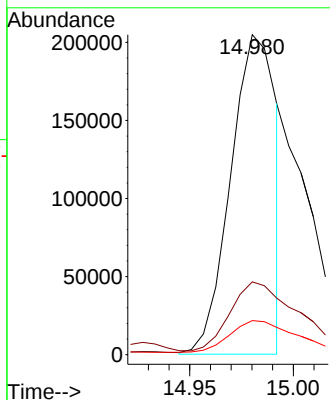
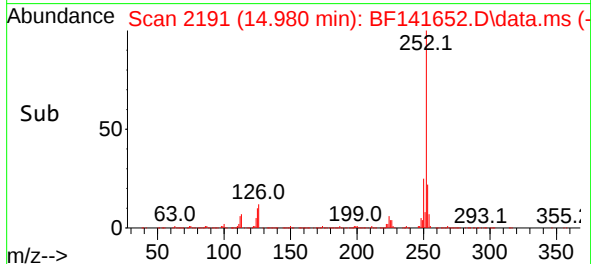
Instrument :
BNA_F
ClientSampleId :
RBR22266



Tgt Ion:252 Resp: 31270
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 10.7 7.0 10.6

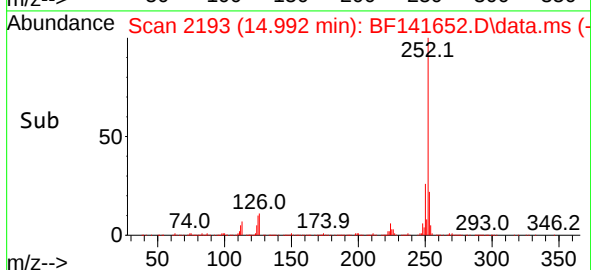
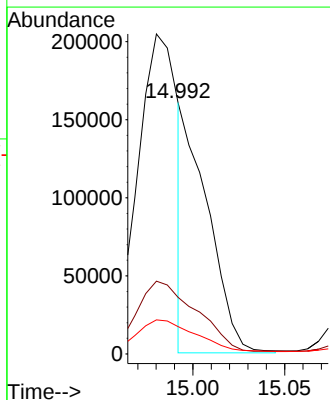
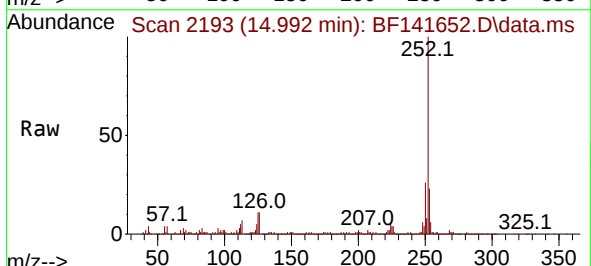
Manual Integrations
APPROVED

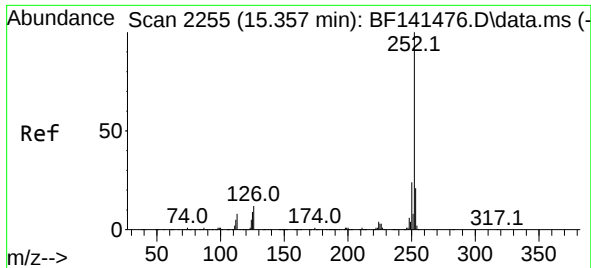
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#89
Benzo(k)fluoranthene
Concen: 14.500 ng m
RT: 14.992 min Scan# 2193
Delta R.T. -0.041 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

Tgt Ion:252 Resp: 146305
Ion Ratio Lower Upper
252 100
253 22.5 18.0 27.0
125 10.9 7.4 11.0





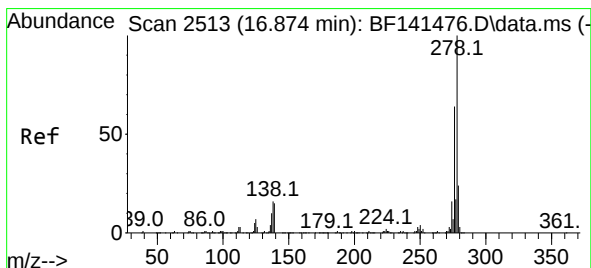
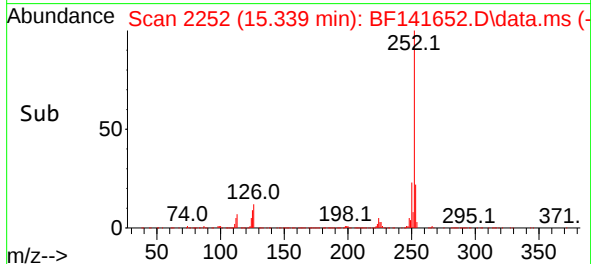
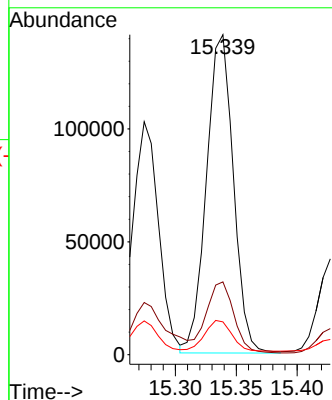
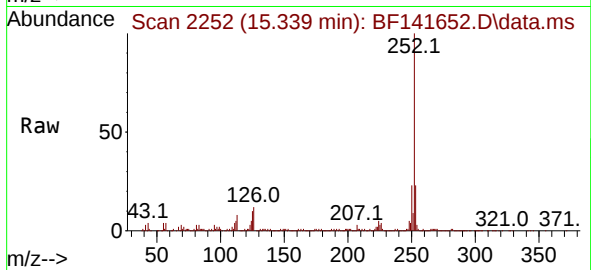
#90
Benzo(a)pyrene
Concen: 22.693 ng
RT: 15.339 min Scan# 21697
Delta R.T. -0.023 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

Instrument :
BNA_F
ClientSampleId :
RBR22266

Tgt Ion:252 Resp: 21697
Ion Ratio Lower Upper
252 100
253 22.7 17.1 25.7
125 10.2 7.4 11.2

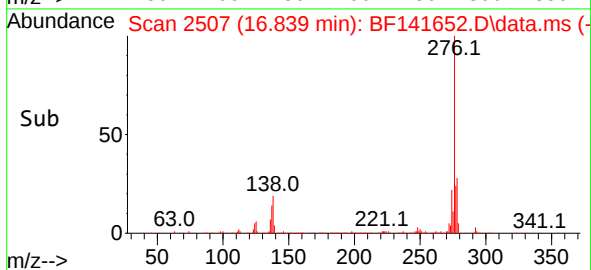
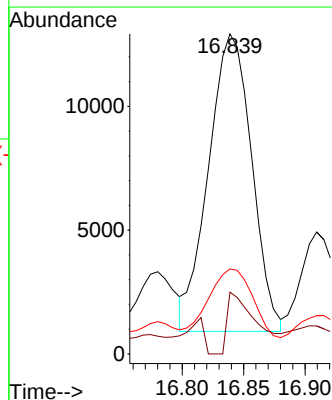
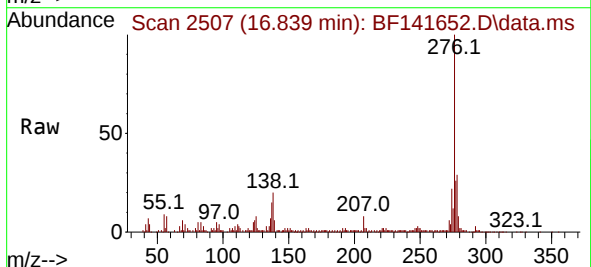
Manual Integrations
APPROVED

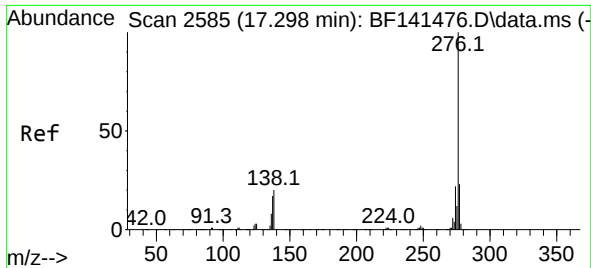
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#91
Dibenzo(a,h)anthracene
Concen: 3.329 ng m
RT: 16.839 min Scan# 2507
Delta R.T. -0.053 min
Lab File: BF141652.D
Acq: 14 Feb 2025 20:52

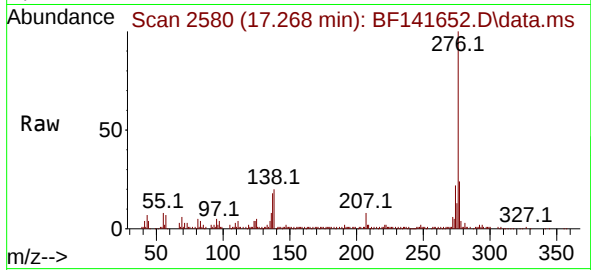
Tgt Ion:278 Resp: 29331
Ion Ratio Lower Upper
278 100
139 19.3 11.8 17.6#
279 26.6 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 10.309 ng
 RT: 17.268 min Scan# 21
 Delta R.T. -0.047 min
 Lab File: BF141652.D
 Acq: 14 Feb 2025 20:52

Instrument :
 BNA_F
 ClientSampleId :
 RBR22266



Tgt Ion:276 Resp: 9505
 Ion Ratio Lower Upper
 276 100
 277 24.3 18.6 28.0
 138 20.3 15.9 23.9

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/15/2025
 Supervised By :Jagrut Upadhyay 02/19/2025

