

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021025\
 Data File : BF141544.D
 Acq On : 10 Feb 2025 19:27
 Operator : RC/JU
 Sample : Q1288-01DL 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-01-020425DL

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/11/2025
 Supervised By :Jagrut Upadhyay 02/11/2025

Quant Time: Feb 11 00:08:19 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	83724	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	329944	20.000	ng	# 0.00
39) Acenaphthene-d10	9.822	164	172279	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	260219	20.000	ng	0.00
76) Chrysene-d12	13.957	240	199461	20.000	ng	0.00
86) Perylene-d12	15.415	264	191750	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	320295	59.976	ng	0.00
7) Phenol-d6	6.422	99	404832	59.977	ng	-0.02
23) Nitrobenzene-d5	7.345	82	261568	41.349	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	93869	54.240	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	480312	42.953	ng	0.00
79) Terphenyl-d14	12.892	244	418017	35.380	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.092	128	40659	2.367	ng	# 85
37) 2-Methylnaphthalene	8.780	142	51647	4.621	ng	100
38) 1-Methylnaphthalene	8.880	142	37558	3.470	ng	94
52) Acenaphthene	9.857	154	31154	3.154	ng	# 87
58) Fluorene	10.369	166	37350	3.332	ng	# 89
71) Phenanthrene	11.333	178	503519	35.152	ng	99
72) Anthracene	11.386	178	94850	6.587	ng	98
73) Carbazole	11.539	167	31322	2.418	ng	# 80
75) Fluoranthene	12.527	202	664231	43.739	ng	99
78) Pyrene	12.751	202	605794	35.678	ng	99
81) Benzo(a)anthracene	13.945	228	333254	25.134	ng	98
83) Chrysene	13.980	228	263346	21.511	ng	96
87) Indeno(1,2,3-cd)pyrene	16.851	276	98556	8.318	ng	99
88) Benzo(b)fluoranthene	14.998	252	303239m	23.552	ng	
89) Benzo(k)fluoranthene	15.009	252	138943m	12.638	ng	
90) Benzo(a)pyrene	15.357	252	221953	21.305	ng	97
91) Dibenzo(a,h)anthracene	16.856	278	27373	2.851	ng	# 78
92) Benzo(g,h,i)perylene	17.286	276	92075	9.165	ng	99

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

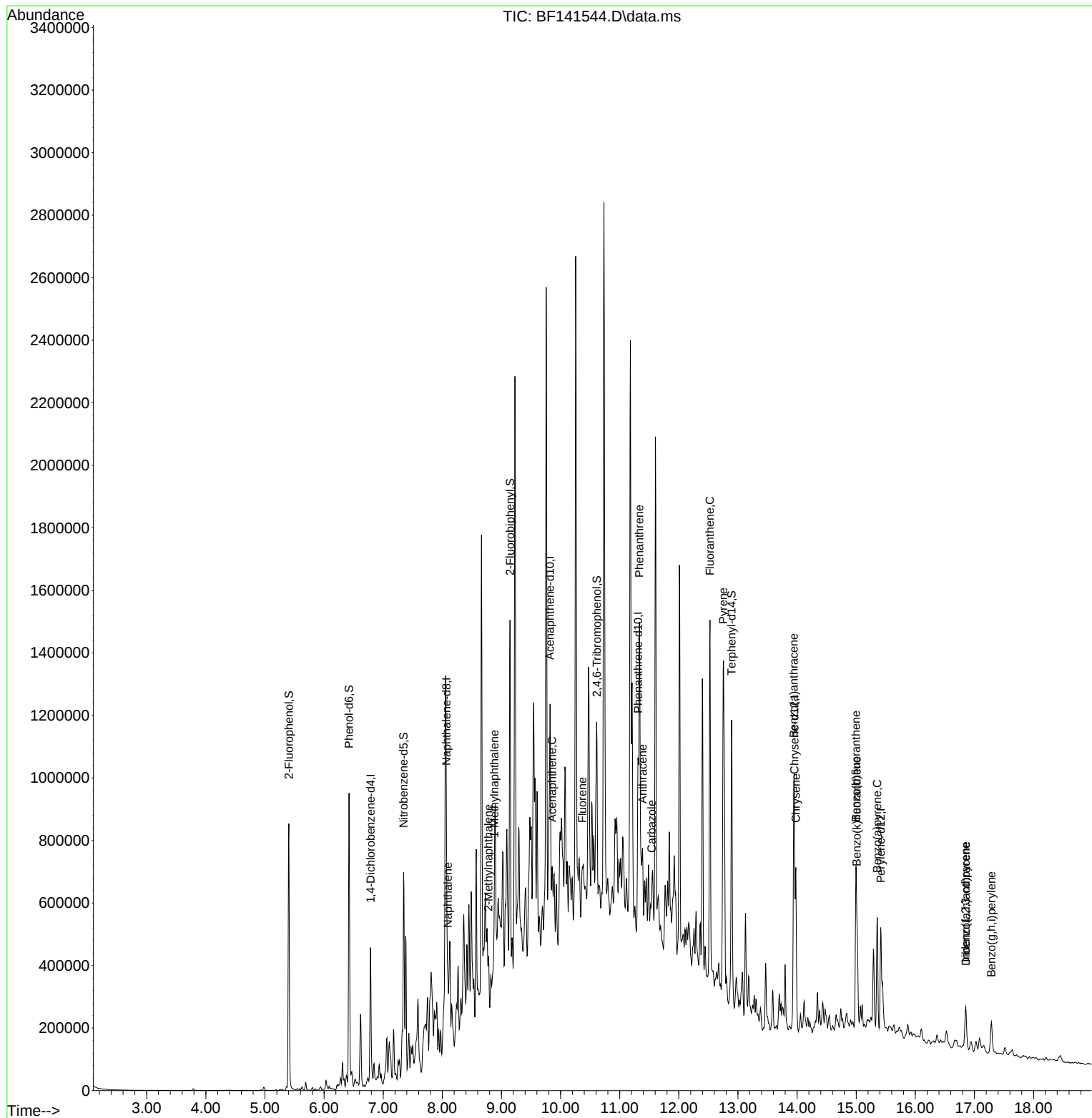
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021025\
Data File : BF141544.D
Acq On : 10 Feb 2025 19:27
Operator : RC/JU
Sample : Q1288-01DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

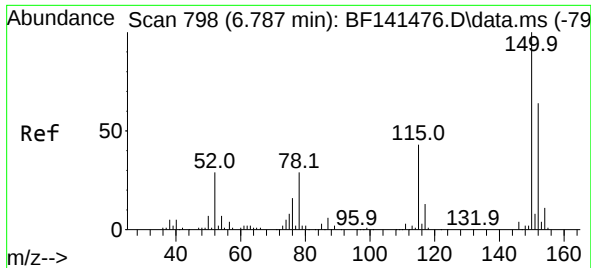
Instrument :
BNA_F
ClientSampleId :
HR-01-020425DL

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Supervised By :Jagrut Upadhyay 02/11/2025

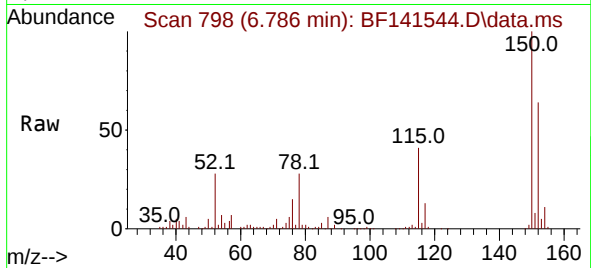
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

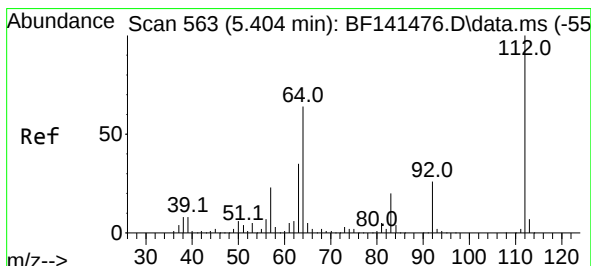
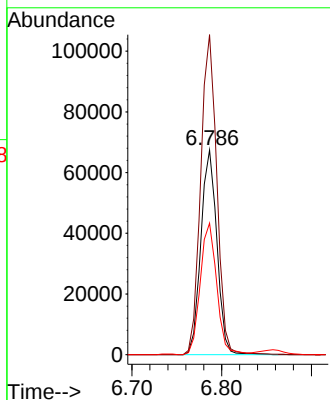
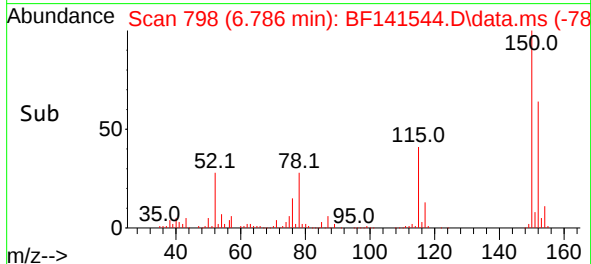
Instrument :
BNA_F
ClientSampleId :
HR-01-020425DL



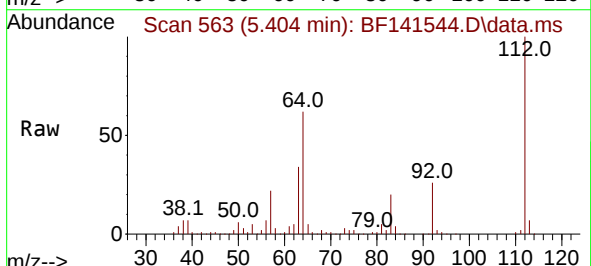
Tgt Ion:152 Resp: 83724
Ion Ratio Lower Upper
152 100
150 156.4 125.0 187.4
115 64.3 53.6 80.4

Manual Integrations
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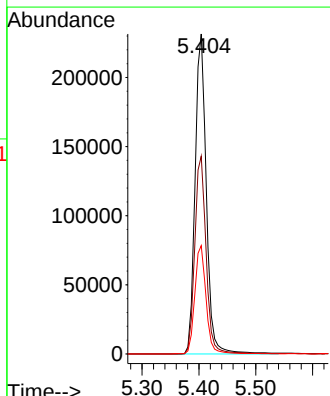
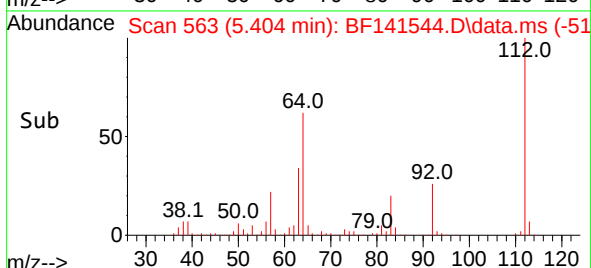
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#5
2-Fluorophenol
Concen: 59.976 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27



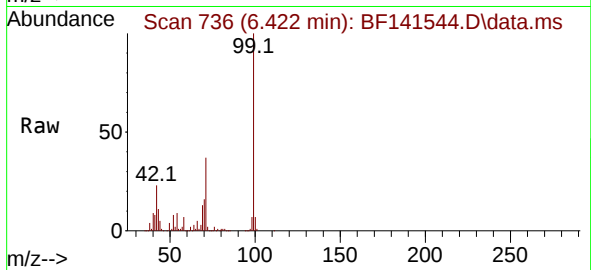
Tgt Ion:112 Resp: 320295
Ion Ratio Lower Upper
112 100
64 61.8 51.1 76.7
63 33.8 28.4 42.6





#7
Phenol-d6
Concen: 59.977 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

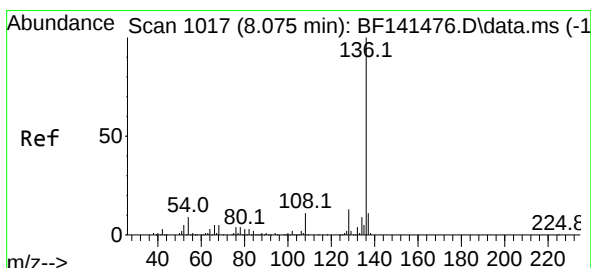
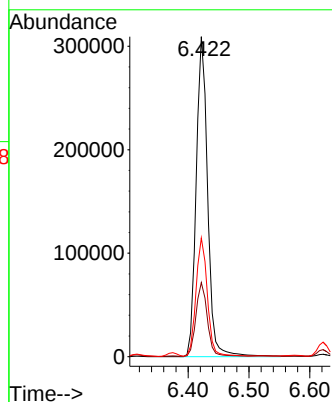
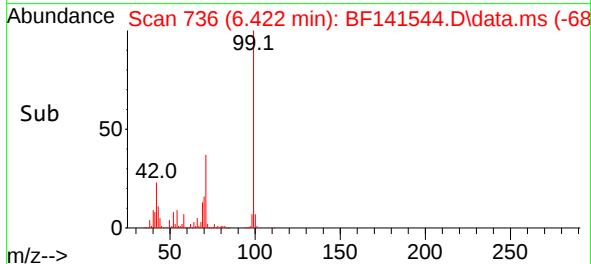
Instrument :
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Tgt Ion: 99 Resp: 404832
Ion Ratio Lower Upper
99 100
42 23.1 19.1 28.7
71 37.1 31.1 46.7

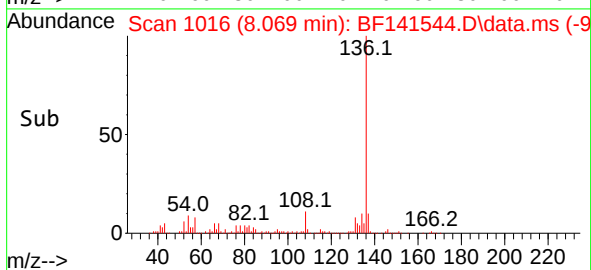
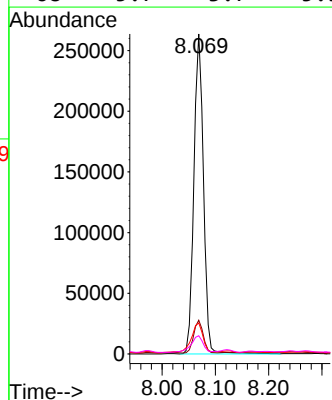
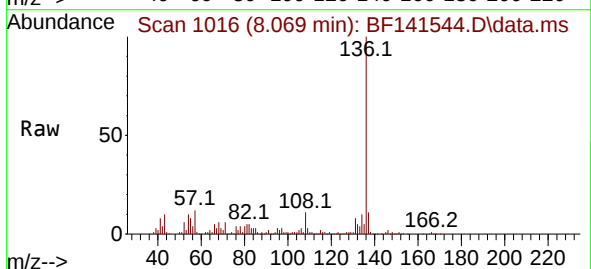
Manual Integrations
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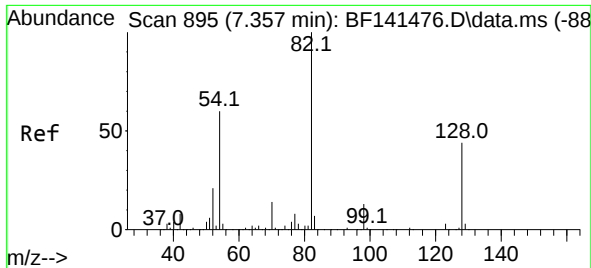
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:136 Resp: 329944
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 9.7 7.2 10.8
68 5.7 3.7 5.5#





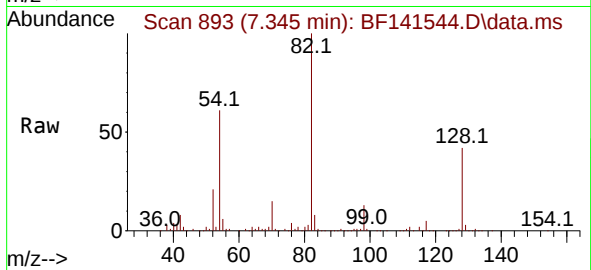
#23
Nitrobenzene-d5
Concen: 41.349 ng
RT: 7.345 min Scan# 895
Delta R.T. -0.018 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

ClientSampleId :

HR-01-020425DL

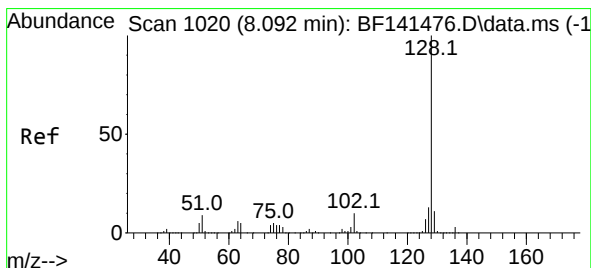
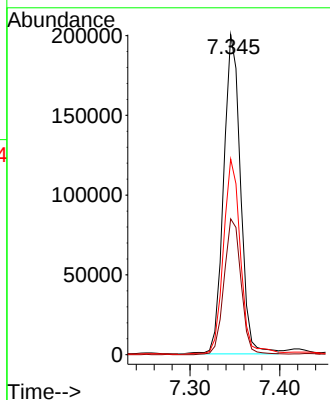
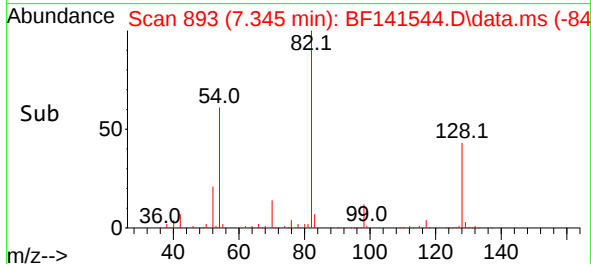


Tgt Ion: 82 Resp: 261568
Ion Ratio Lower Upper
82 100
128 42.5 34.8 52.2
54 61.2 48.2 72.4

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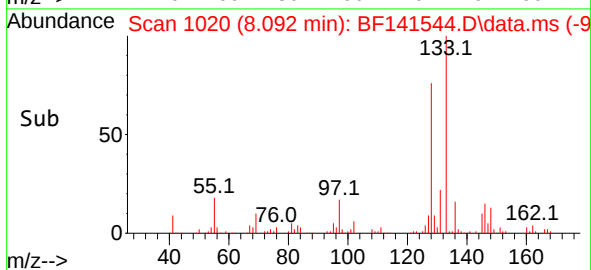
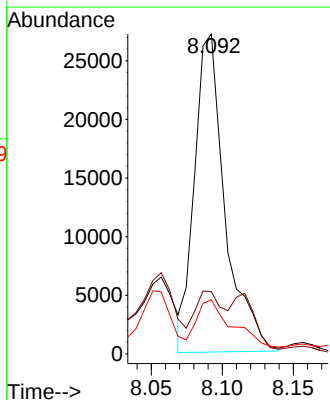
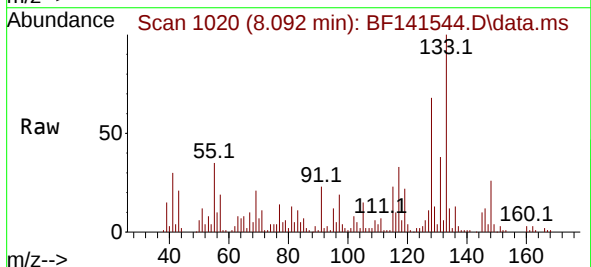
APPROVED

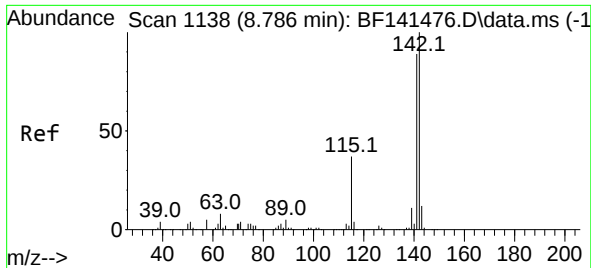
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#31
Naphthalene
Concen: 2.367 ng
RT: 8.092 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

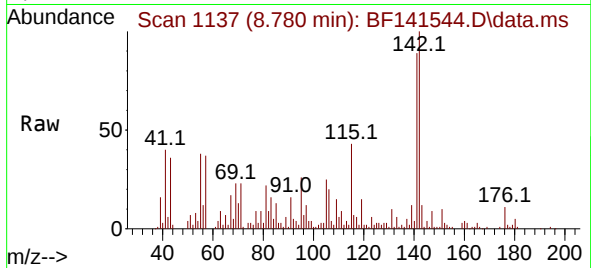
Tgt Ion:128 Resp: 40659
Ion Ratio Lower Upper
128 100
129 19.5 8.9 13.3#
127 16.9 10.7 16.1#





#37
2-Methylnaphthalene
Concen: 4.621 ng
RT: 8.780 min Scan# 1138
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

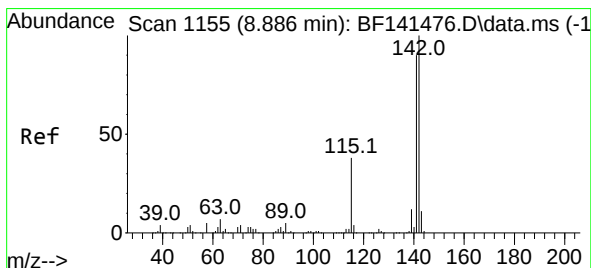
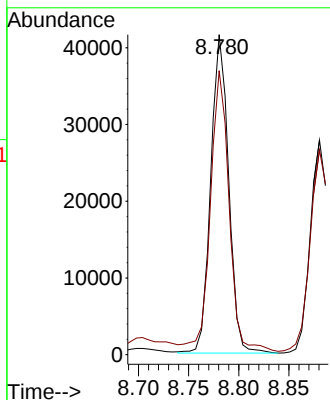
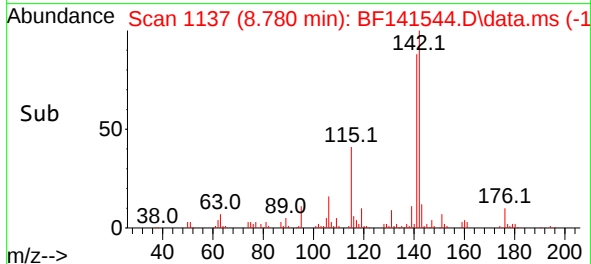
Instrument :
BNA_F
ClientSampleId :
HR-01-020425DL



Tgt Ion:142 Resp: 5164
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8

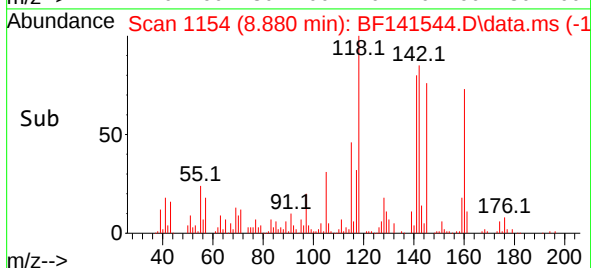
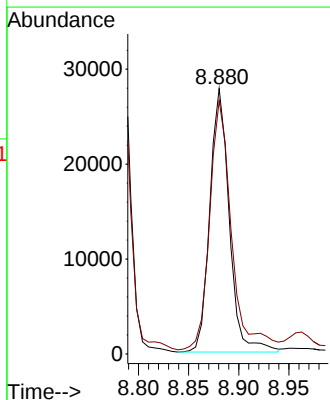
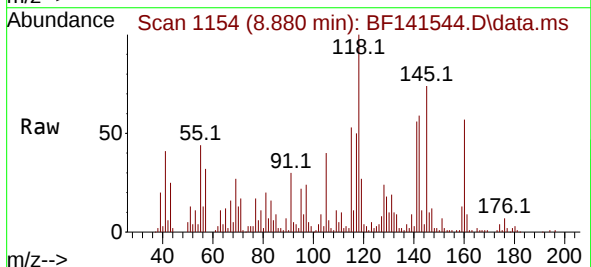
Manual Integrations
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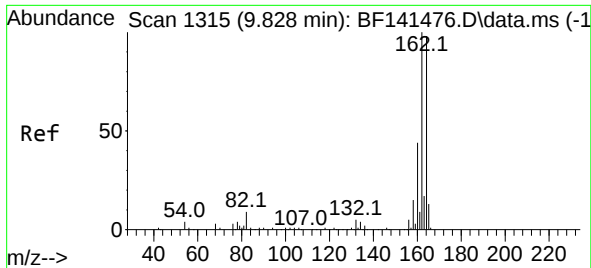
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#38
1-Methylnaphthalene
Concen: 3.470 ng
RT: 8.880 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

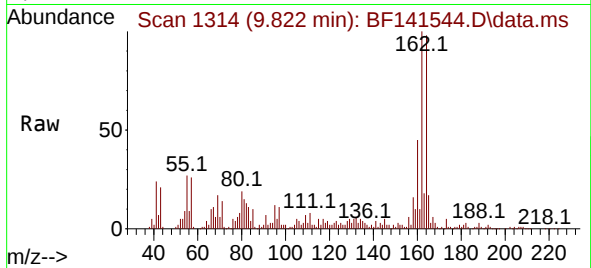
Tgt Ion:142 Resp: 37558
Ion Ratio Lower Upper
142 100
141 95.5 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

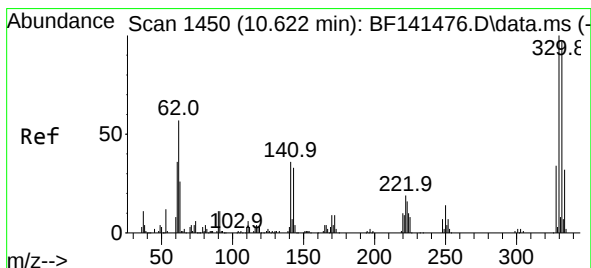
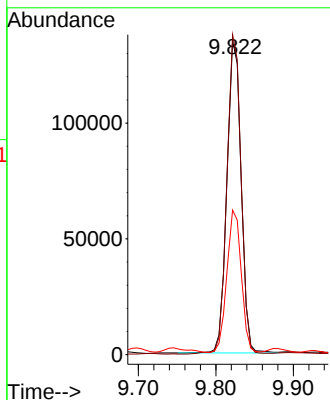
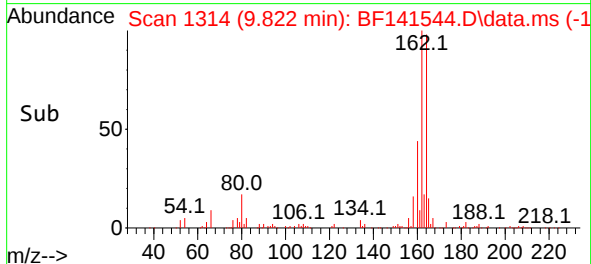
Instrument :
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HR-01-020425DL



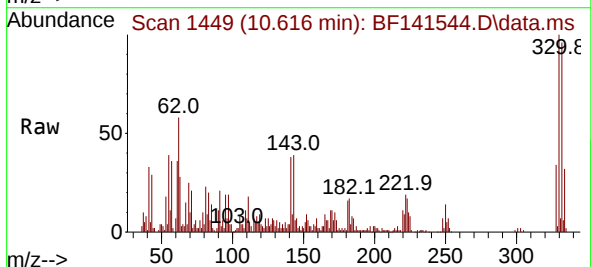
Tgt Ion:164 Resp: 172279
Ion Ratio Lower Upper
164 100
162 101.9 81.3 121.9
160 46.1 35.9 53.9

Manual Integrations
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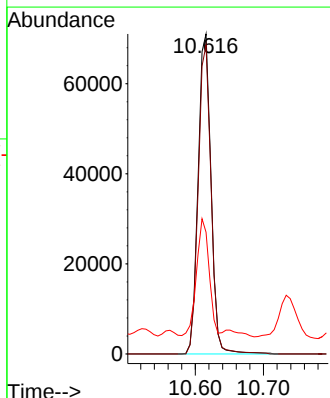
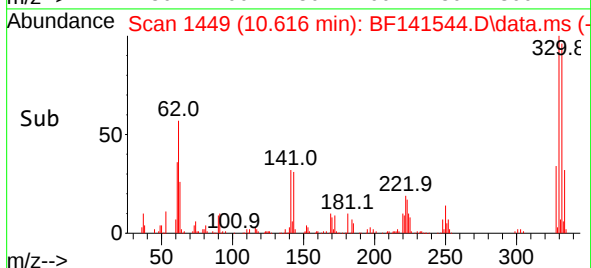
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025

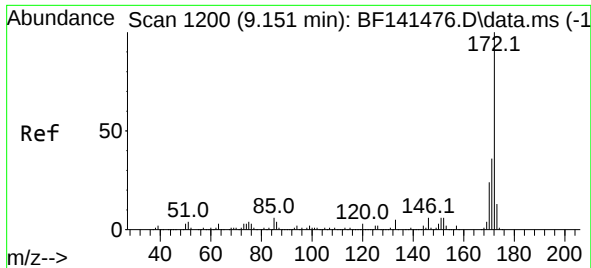


#42
2,4,6-Tribromophenol
Concen: 54.240 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27



Tgt Ion:330 Resp: 93869
Ion Ratio Lower Upper
330 100
332 95.9 78.5 117.7
141 35.4 31.0 46.4





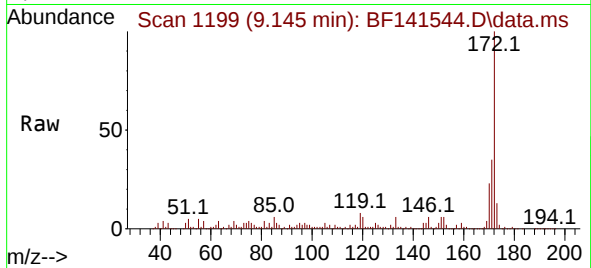
#45
2-Fluorobiphenyl
Concen: 42.953 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

ClientSampleId :

HR-01-020425DL

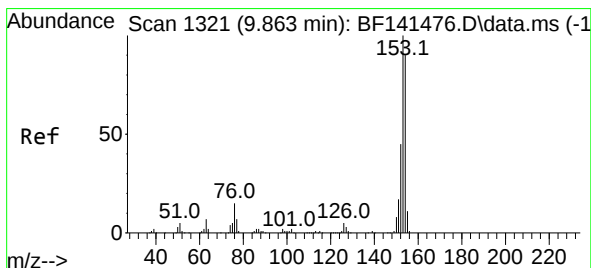
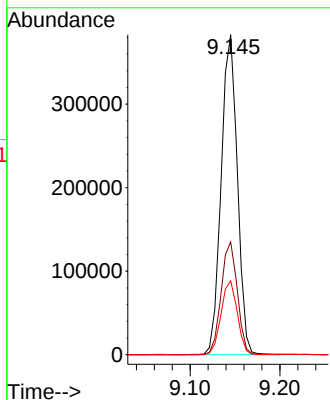
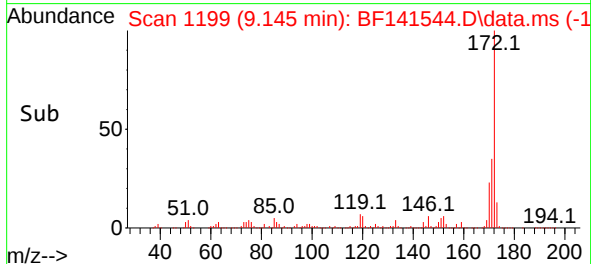


Tgt Ion:172 Resp: 480312
Ion Ratio Lower Upper
172 100
171 35.3 28.7 43.1
170 23.1 18.9 28.3

Manual Integrations

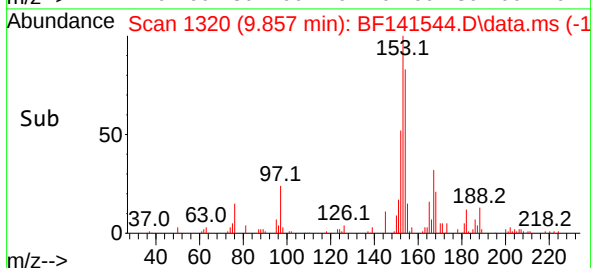
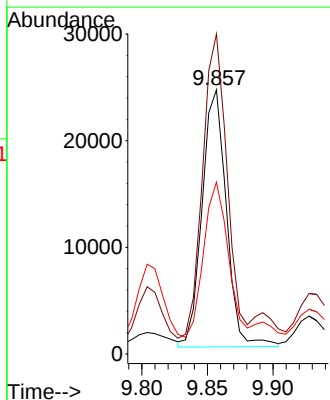
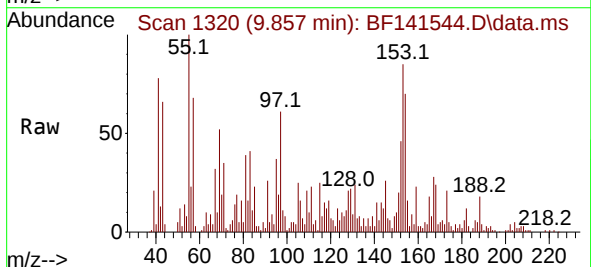
APPROVED

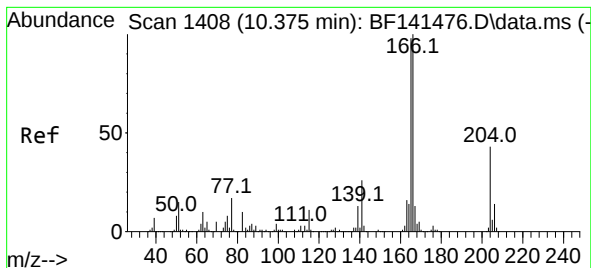
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#52
Acenaphthene
Concen: 3.154 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

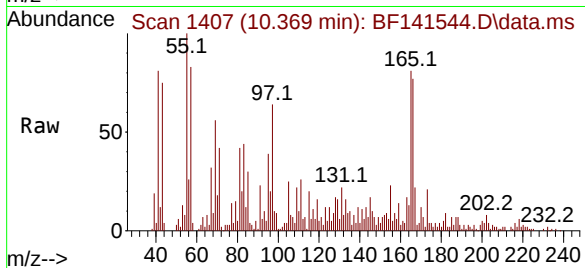
Tgt Ion:154 Resp: 31154
Ion Ratio Lower Upper
154 100
153 121.2 89.2 133.8
152 65.1 39.8 59.8





#58
Fluorene
Concen: 3.332 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

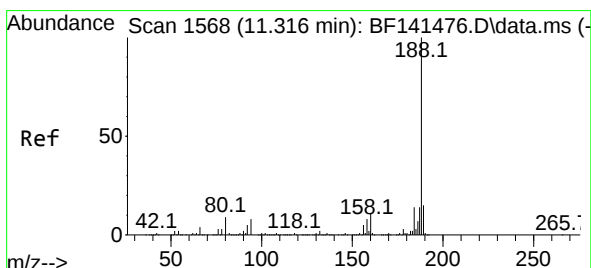
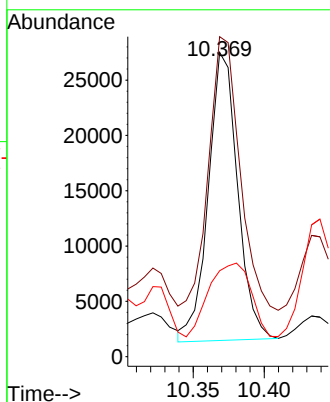
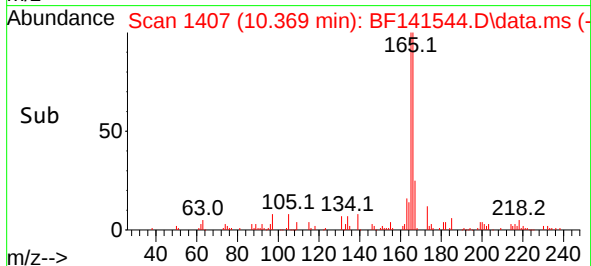
Instrument :
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ClientSampleId :
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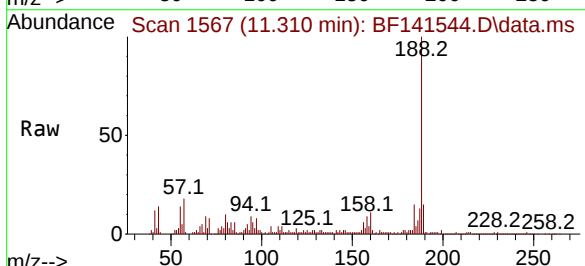
Tgt Ion:166 Resp: 37350
Ion Ratio Lower Upper
166 100
165 105.1 78.2 117.2
167 28.2 10.7 16.1

Manual Integrations
APPROVED

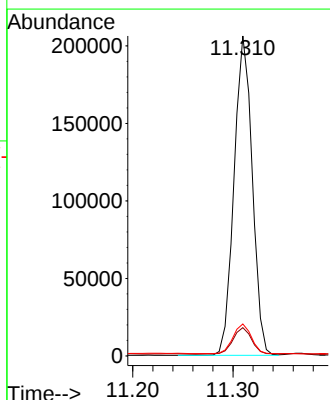
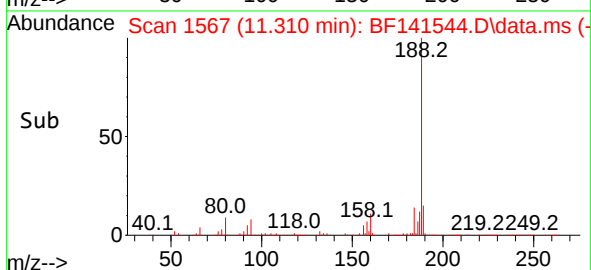
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025

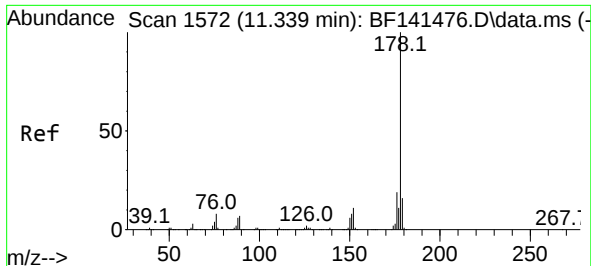


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27



Tgt Ion:188 Resp: 260219
Ion Ratio Lower Upper
188 100
94 8.9 6.6 10.0
80 10.0 7.3 10.9





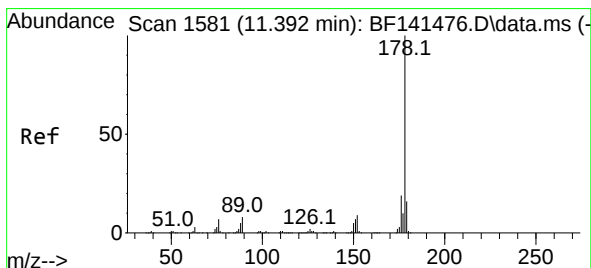
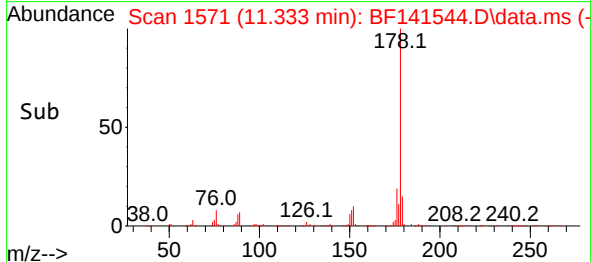
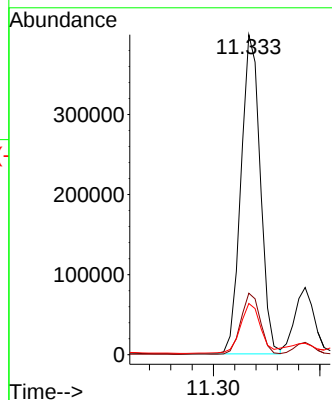
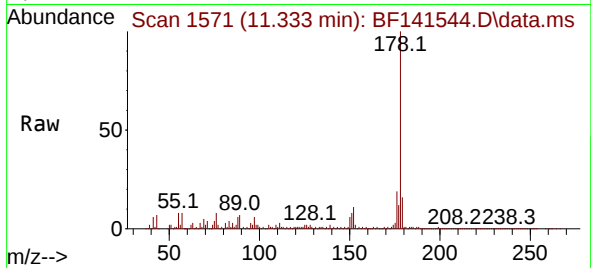
#71
Phenanthrene
Concen: 35.152 ng
RT: 11.333 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :
BNA_F
ClientSampleId :
HR-01-020425DL

Tgt Ion:178 Resp: 503519
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 16.0 12.4 18.6

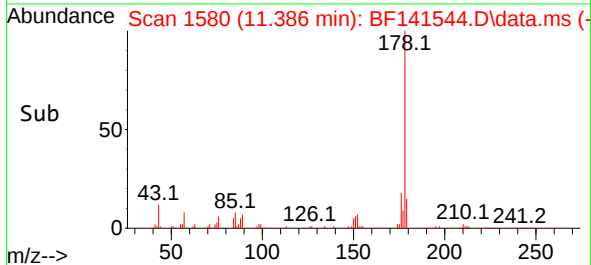
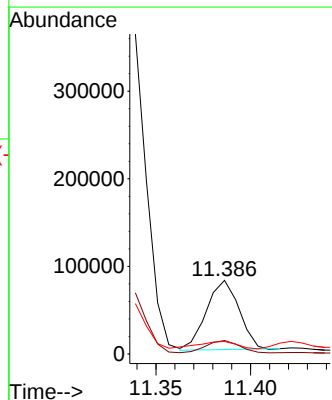
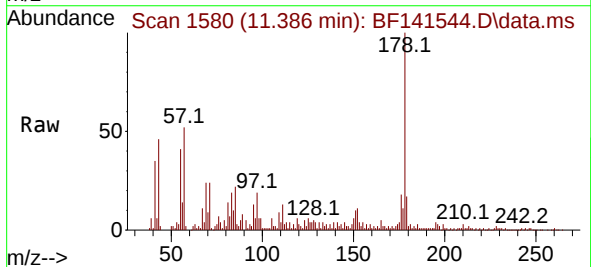
Manual Integrations
APPROVED

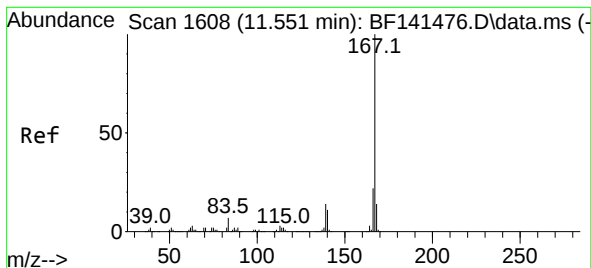
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#72
Anthracene
Concen: 6.587 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:178 Resp: 94850
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 17.0 12.4 18.6





#73

Carbazole

Concen: 2.418 ng

RT: 11.539 min Scan# 1606

Delta R.T. -0.012 min

Lab File: BF141544.D

Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

ClientSampleId :

HR-01-020425DL

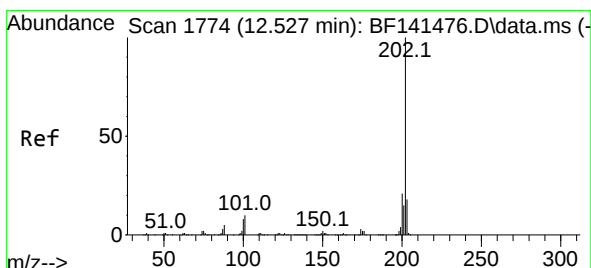
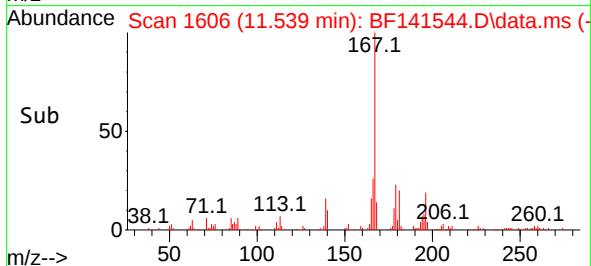
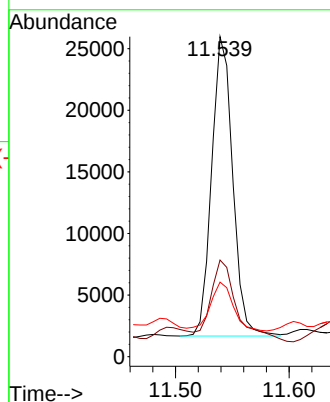
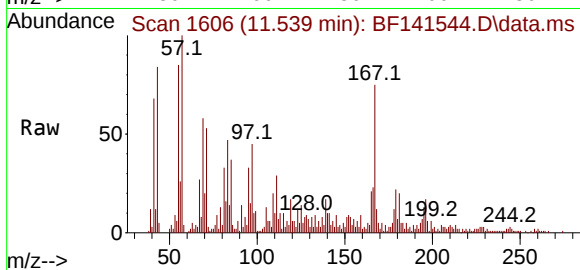
Tgt Ion:167	Resp:	3132
Ion Ratio	Lower	Upper
167	100	
166	30.2	17.4 26.2
139	23.3	10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/11/2025

Supervised By :Jagrut Upadhyay 02/11/2025



#75

Fluoranthene

Concen: 43.739 ng

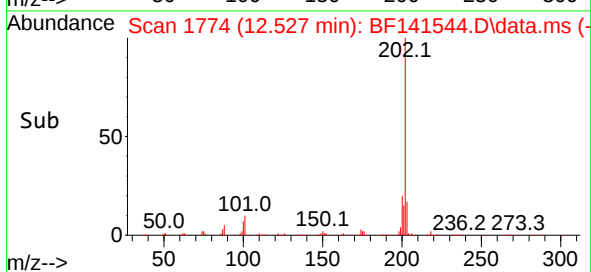
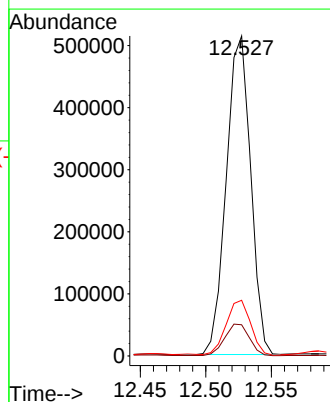
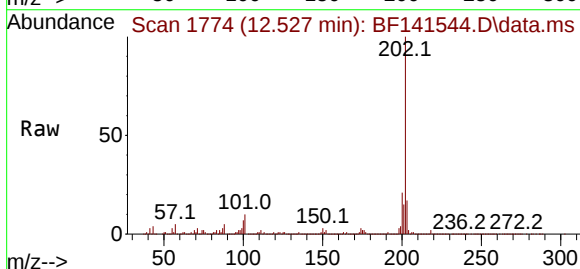
RT: 12.527 min Scan# 1774

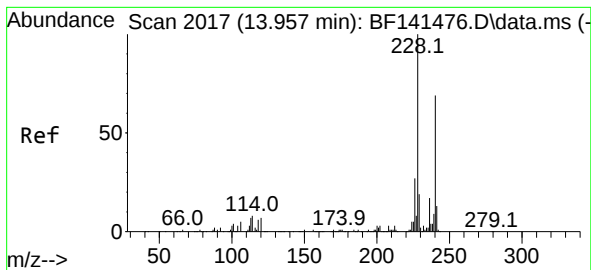
Delta R.T. -0.006 min

Lab File: BF141544.D

Acq: 10 Feb 2025 19:27

Tgt Ion:202	Resp:	664231
Ion Ratio	Lower	Upper
202	100	
101	9.7	0.0 30.2
203	17.4	0.0 37.6





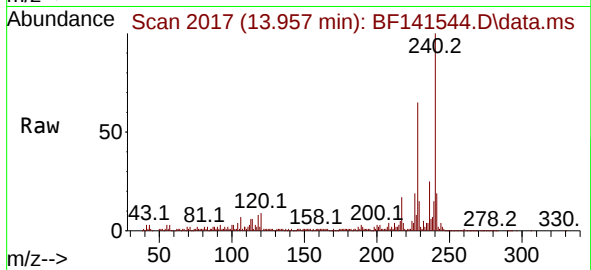
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

ClientSampleId :

HR-01-020425DL

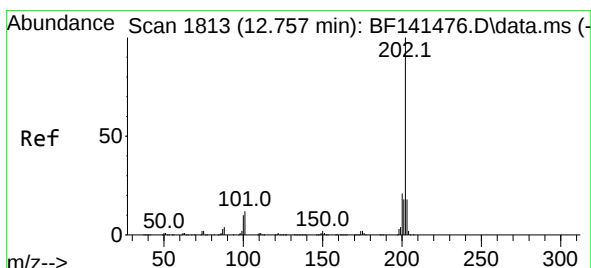
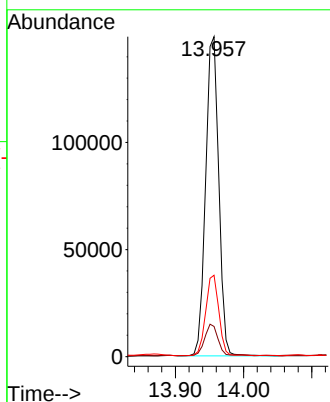
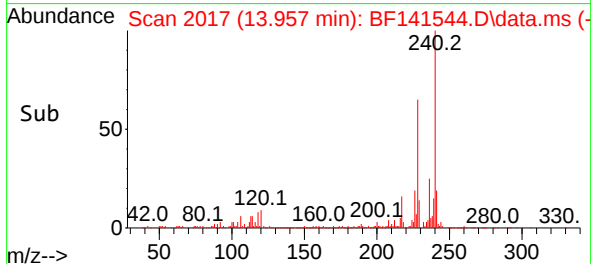


Tgt Ion:240 Resp: 19946
Ion Ratio Lower Upper
240 100
120 9.4 8.0 12.0
236 25.5 19.8 29.8

Manual Integrations

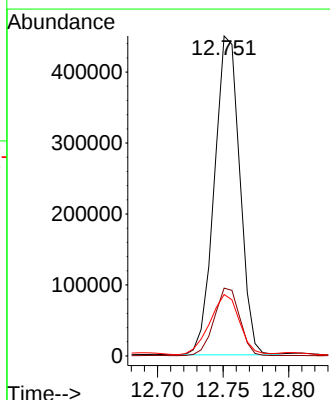
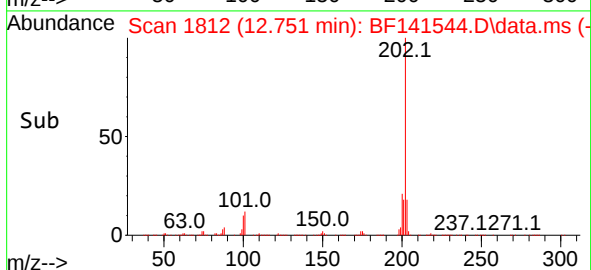
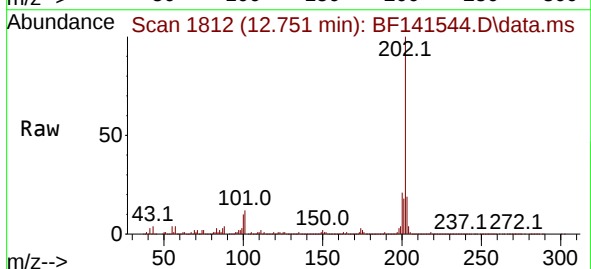
APPROVED

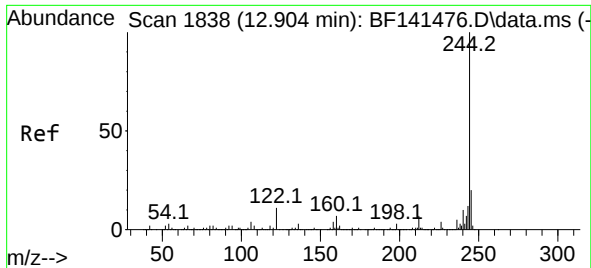
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#78
Pyrene
Concen: 35.678 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:202 Resp: 605794
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 19.2 14.3 21.5





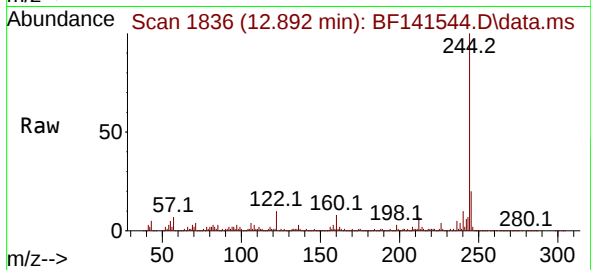
#79
 Terphenyl-d14
 Concen: 35.380 ng
 RT: 12.892 min Scan# 1838
 Delta R.T. -0.012 min
 Lab File: BF141544.D
 Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

ClientSampleId :

HR-01-020425DL

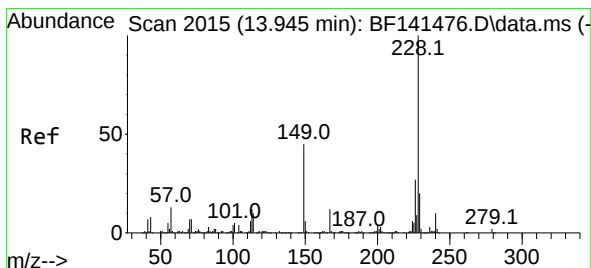
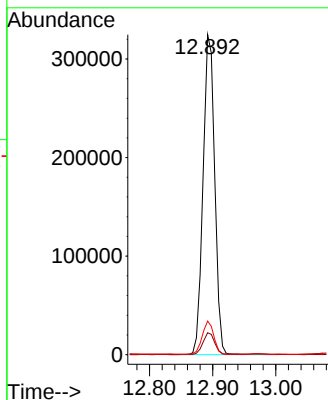
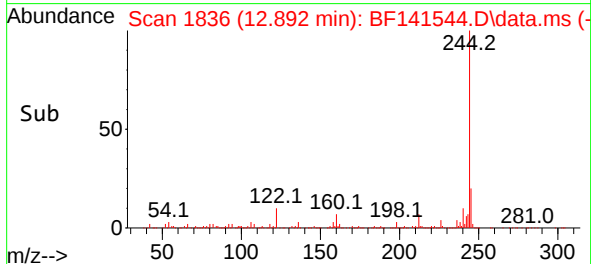


Tgt Ion:244 Resp: 41801
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.6 8.4
 122 10.5 8.4 12.6

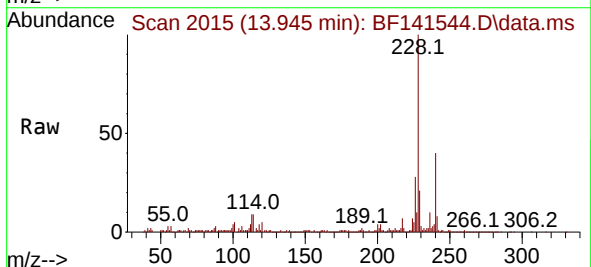
Manual Integrations

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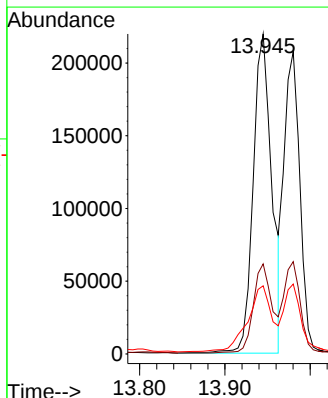
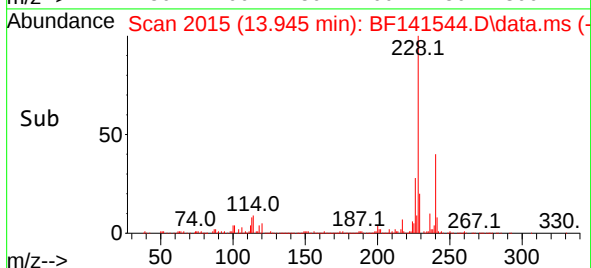
Reviewed By :Anahy Claudio 02/11/2025
 Supervised By :Jagrut Upadhyay 02/11/2025

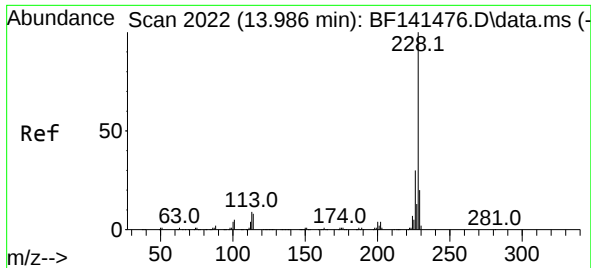


#81
 Benzo(a)anthracene
 Concen: 25.134 ng
 RT: 13.945 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: BF141544.D
 Acq: 10 Feb 2025 19:27



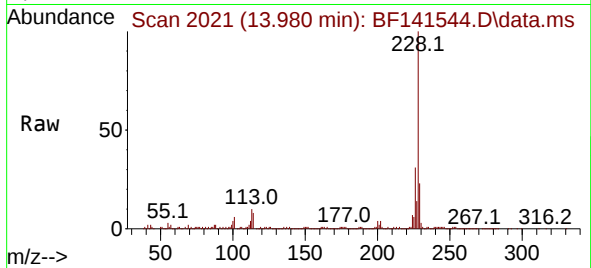
Tgt Ion:228 Resp: 333254
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.8 32.8
 229 21.3 15.8 23.6





#83
Chrysene
Concen: 21.511 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

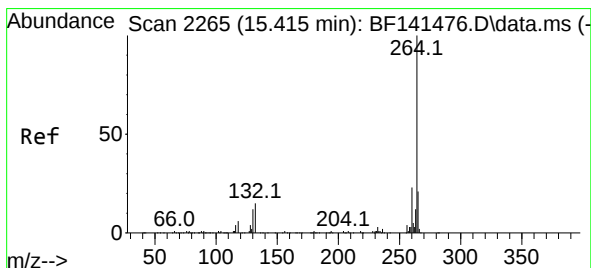
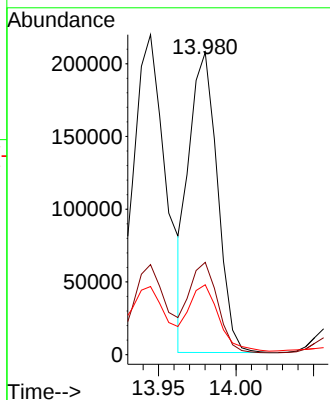
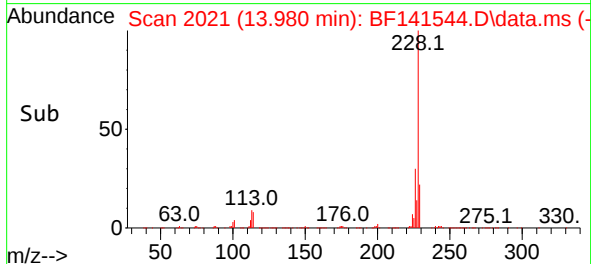
Instrument :
BNA_F
ClientSampleId :
HR-01-020425DL



Tgt Ion:228 Resp: 263340
Ion Ratio Lower Upper
228 100
226 30.5 24.0 36.0
229 23.1 15.7 23.5

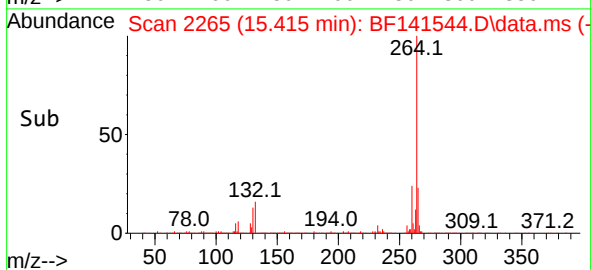
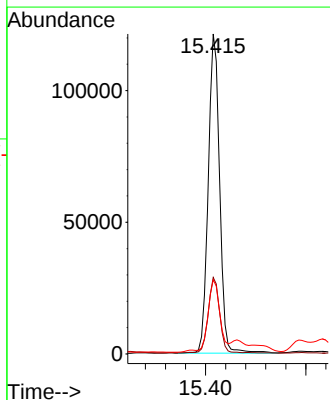
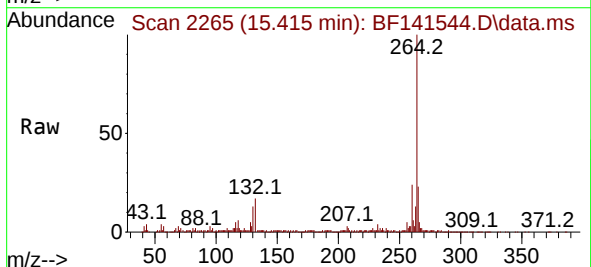
Manual Integrations
APPROVED

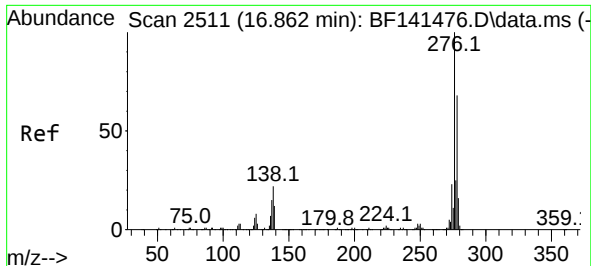
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:264 Resp: 191750
Ion Ratio Lower Upper
264 100
260 23.9 18.6 28.0
265 23.2 17.0 25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.318 ng
RT: 16.851 min Scan# 2150
Delta R.T. -0.023 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

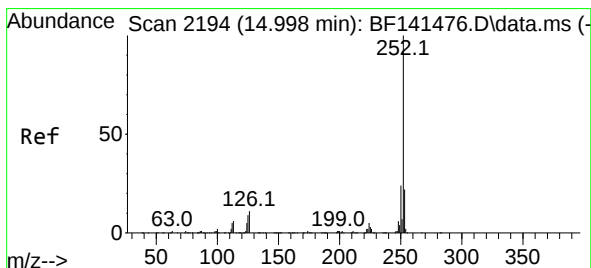
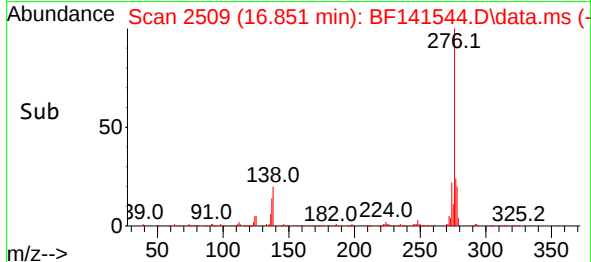
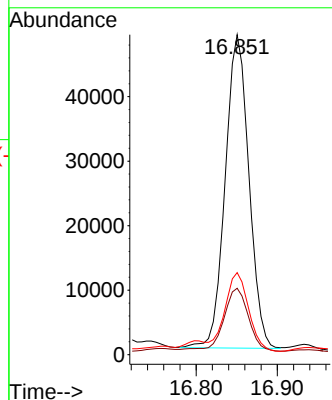
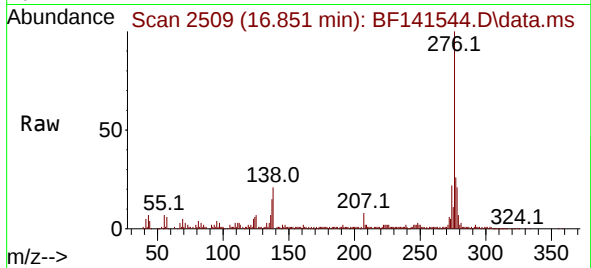
ClientSampleId :

HR-01-020425DL

Tgt Ion:276 Resp: 98550
Ion Ratio Lower Upper
276 100
138 22.0 18.0 27.0
277 25.0 20.4 30.6

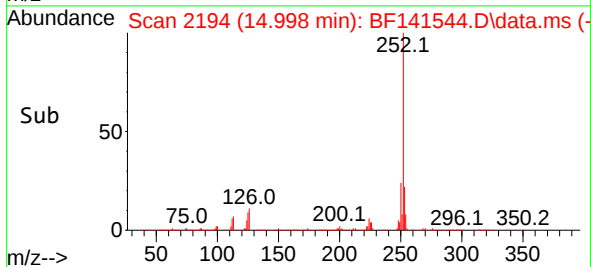
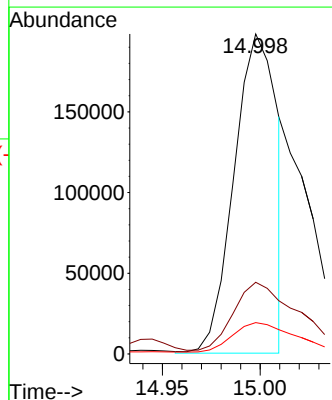
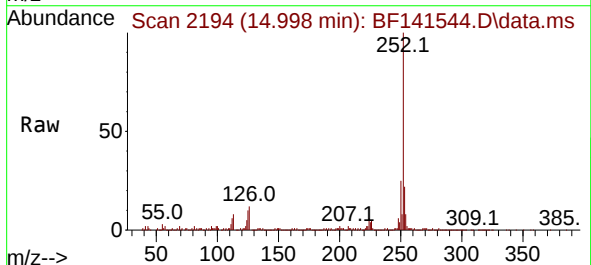
Manual Integrations
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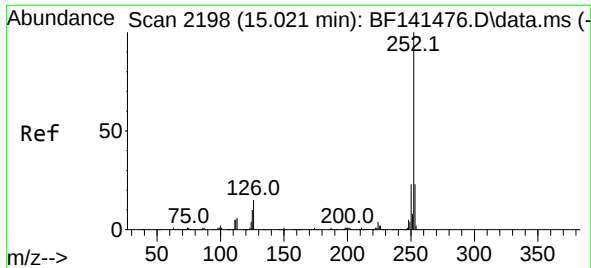
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#88
Benzo(b)fluoranthene
Concen: 23.552 ng m
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:252 Resp: 303239
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 9.8 7.0 10.6





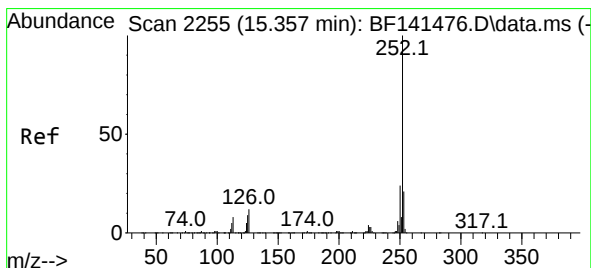
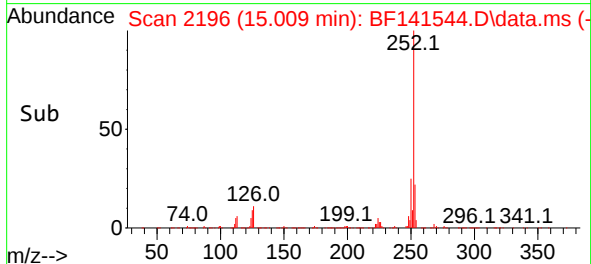
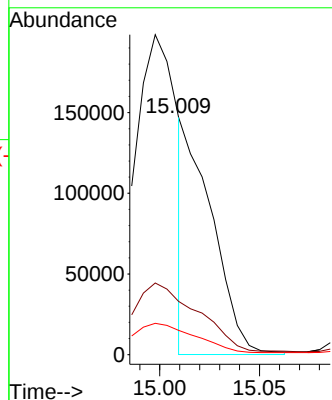
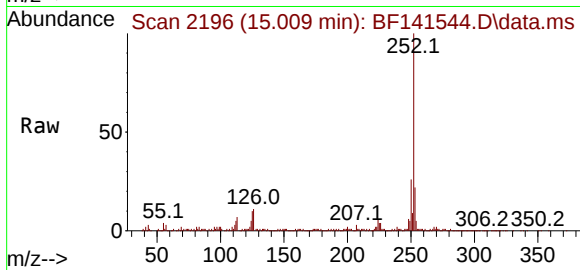
#89
Benzo(k)fluoranthene
Concen: 12.638 ng m
RT: 15.009 min Scan# 2198
Delta R.T. -0.024 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :
BNA_F
ClientSampleId :
HR-01-020425DL

Tgt Ion:252 Resp: 13894
Ion Ratio Lower Upper
252 100
253 22.5 18.0 27.0
125 10.3 7.4 11.0

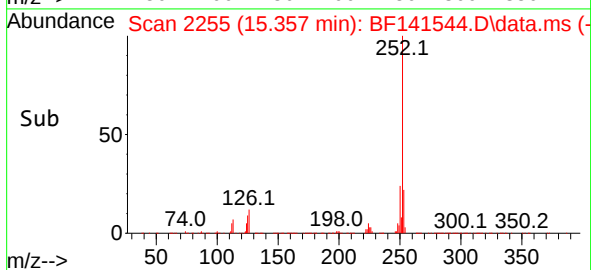
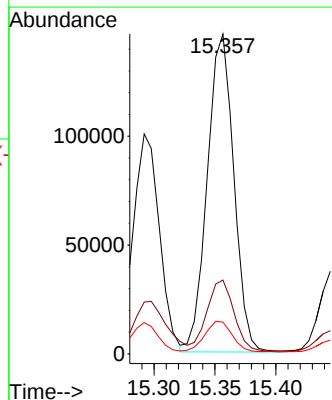
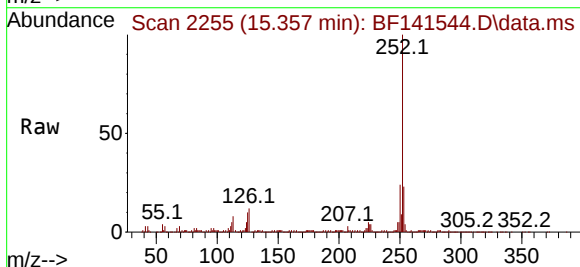
Manual Integrations
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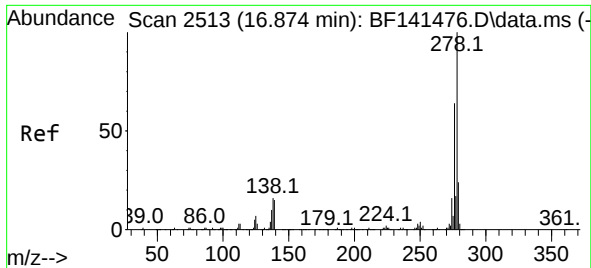
Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#90
Benzo(a)pyrene
Concen: 21.305 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:252 Resp: 221953
Ion Ratio Lower Upper
252 100
253 23.1 17.1 25.7
125 9.9 7.4 11.2





#91
Dibenzo(a,h)anthracene
Concen: 2.851 ng
RT: 16.856 min Scan# 2510
Delta R.T. -0.035 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Instrument :

BNA_F

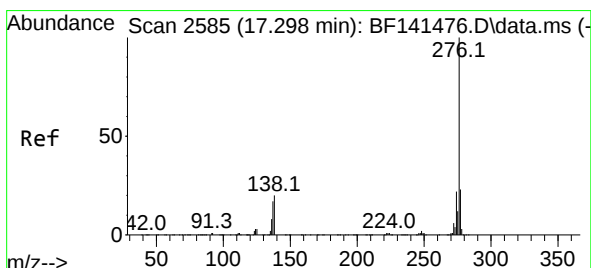
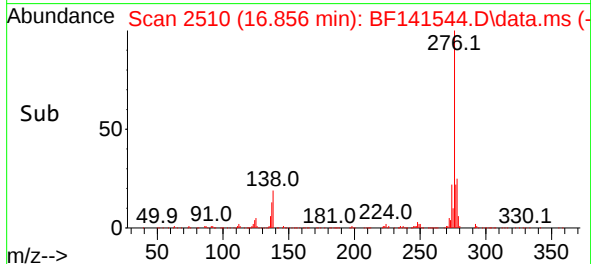
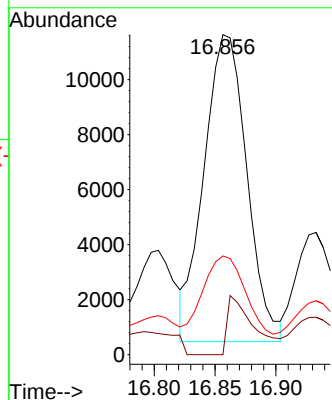
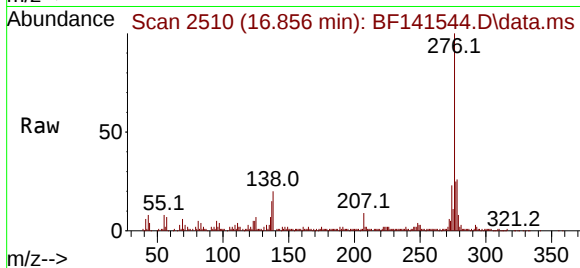
ClientSampleId :

HR-01-020425DL

Tgt Ion:278 Resp: 2737
Ion Ratio Lower Upper
278 100
139 0.0 11.8 17.6
279 30.9 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/11/2025
Supervised By :Jagrut Upadhyay 02/11/2025



#92
Benzo(g,h,i)perylene
Concen: 9.165 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141544.D
Acq: 10 Feb 2025 19:27

Tgt Ion:276 Resp: 92075
Ion Ratio Lower Upper
276 100
277 24.3 18.6 28.0
138 20.1 15.9 23.9

