

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112425\
 Data File : BF144340.D
 Acq On : 24 Nov 2025 23:13
 Operator : RC/JU
 Sample : Q3710-01 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMP

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2025
 Supervised By :mohammad ahmed 11/26/2025

Quant Time: Nov 25 00:31:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

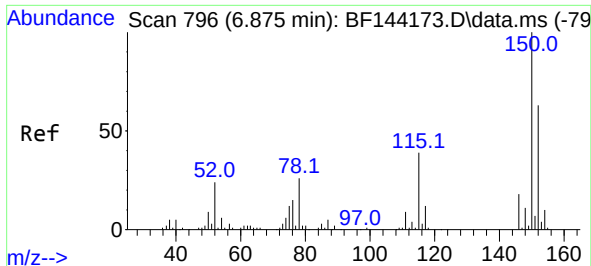
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	47533	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	161896	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	87957	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	165837	20.000	ng	-0.01
76) Chrysene-d12	14.051	240	159456	20.000	ng	0.00
86) Perylene-d12	15.527	264	150329	20.000	ng	#-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	127489	41.972	ng	-0.01
7) Phenol-d6	6.493	99	137561	39.969	ng	0.00
23) Nitrobenzene-d5	7.422	82	74009	26.402	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	39213	35.527	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	148628	24.957	ng	-0.01
79) Terphenyl-d14	12.980	244	191743	19.100	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.163	128	537530	69.798	ng	99
37) 2-Methylnaphthalene	8.857	142	425581	82.653	ng	99
38) 1-Methylnaphthalene	8.957	142	344196	69.280	ng	99
46) 1,1'-Biphenyl	9.322	154	58541	9.535	ng	100
49) Acenaphthylene	9.763	152	160353	22.468	ng	# 94
52) Acenaphthene	9.934	154	88267	18.495	ng	94
55) Dibenzofuran	10.104	168	36257	5.424	ng	# 69
58) Fluorene	10.451	166	290834	57.228	ng	# 97
71) Phenanthrene	11.422	178	1068776	129.442	ng	99
72) Anthracene	11.469	178	276479	32.931	ng	99
75) Fluoranthene	12.616	202	638175	74.822	ng	97
78) Pyrene	12.851	202	1138861	88.581	ng	97
81) Benzo(a)anthracene	14.039	228	559906	50.663	ng	# 87
83) Chrysene	14.074	228	523755	51.339	ng	# 90
87) Indeno(1,2,3-cd)pyrene	17.027	276	103137	9.557	ng	98
88) Benzo(b)fluoranthene	15.098	252	363441m	42.525	ng	
89) Benzo(k)fluoranthene	15.121	252	47873m	5.984	ng	
90) Benzo(a)pyrene	15.468	252	299570	37.995	ng	94
91) Dibenzo(a,h)anthracene	17.027	278	35628	4.111	ng	# 72
92) Benzo(g,h,i)perylene	17.480	276	120550	14.086	ng	# 94

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

Manual Integrations

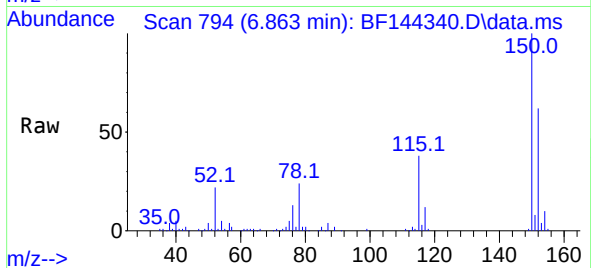
Quant Time: Nov 25 00:31:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

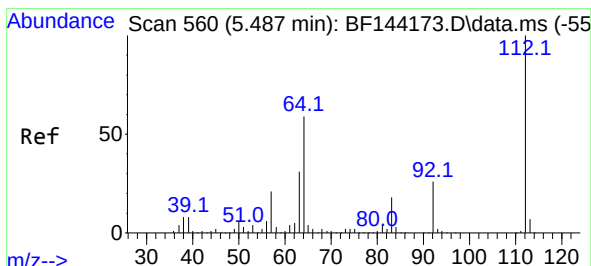
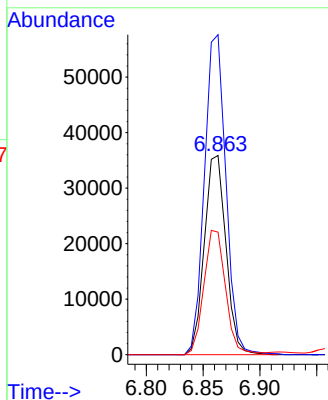
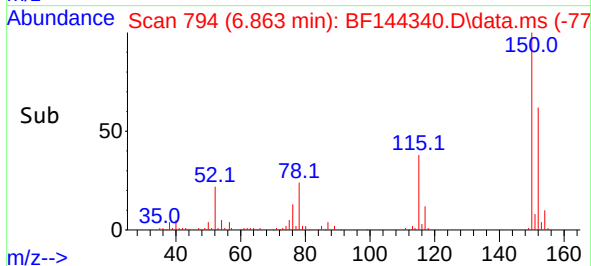
Instrument :
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ClientSampleId :
RBR200028-RT5376-COMP



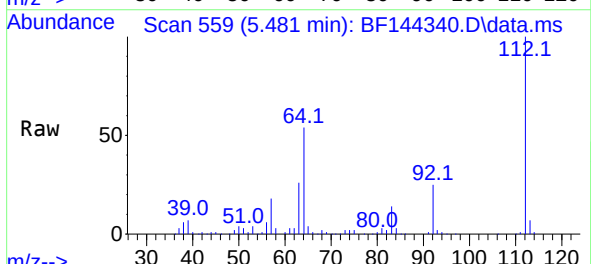
Tgt Ion:152 Resp: 4753
Ion Ratio Lower Upper
152 100
150 160.6 127.4 191.0
115 61.5 49.5 74.3

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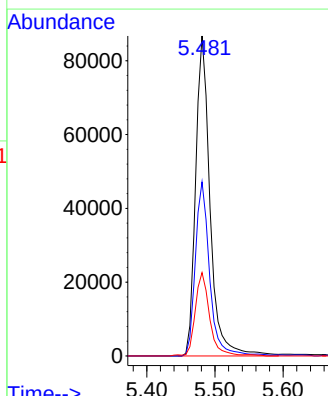
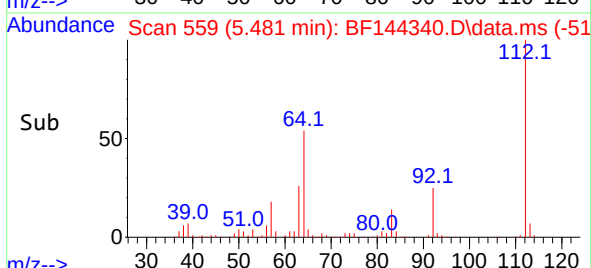
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

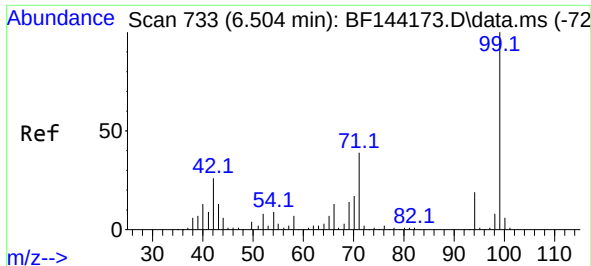


#5
2-Fluorophenol
Concen: 41.972 ng
RT: 5.481 min Scan# 559
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13



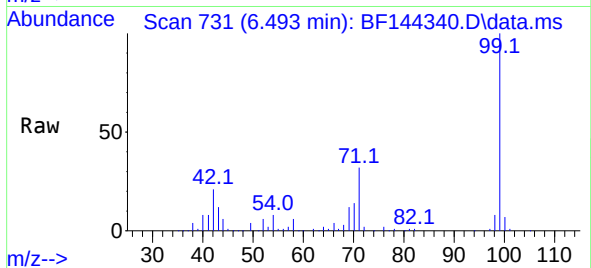
Tgt Ion:112 Resp: 127489
Ion Ratio Lower Upper
112 100
64 54.4 47.2 70.8
63 26.0 24.4 36.6





#7
Phenol-d6
Concen: 39.969 ng
RT: 6.493 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

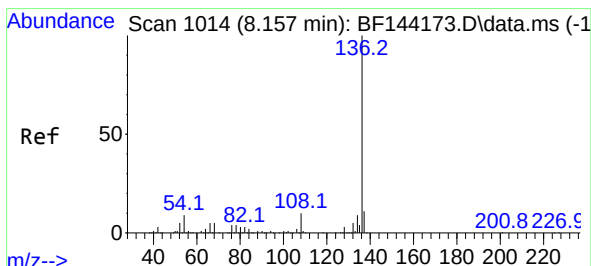
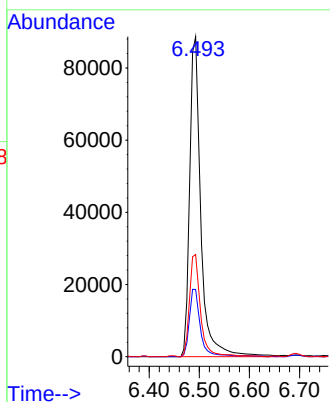
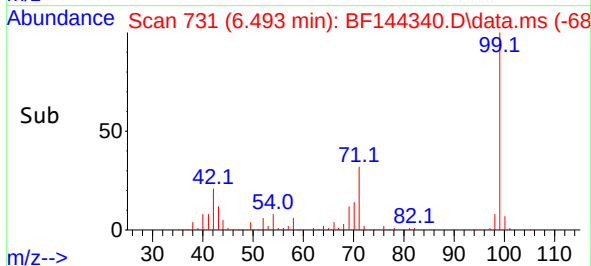
Instrument :
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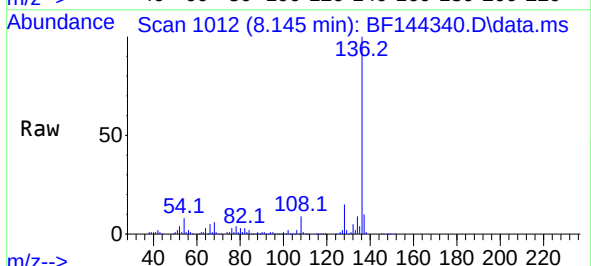
Tgt Ion: 99 Resp: 13756
Ion Ratio Lower Upper
99 100
42 21.0 20.9 31.3
71 31.9 31.4 47.2

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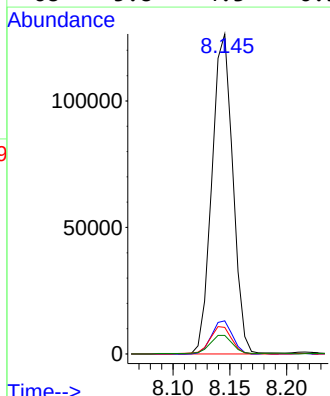
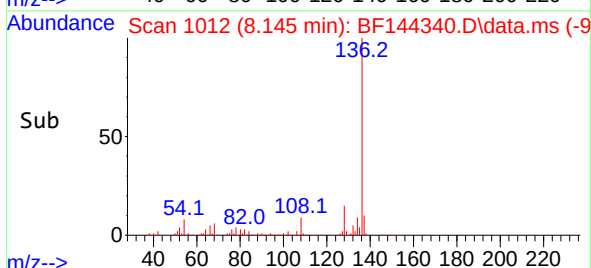
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

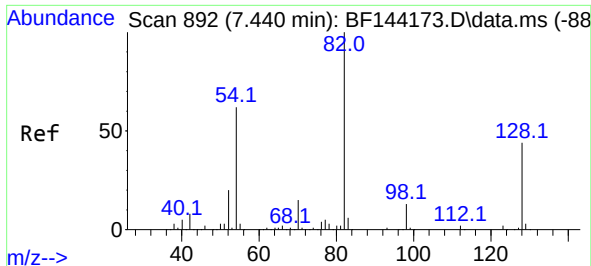


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13



Tgt Ion:136 Resp: 161896
Ion Ratio Lower Upper
136 100
137 10.4 8.6 13.0
54 8.3 7.0 10.6
68 5.8 4.3 6.5





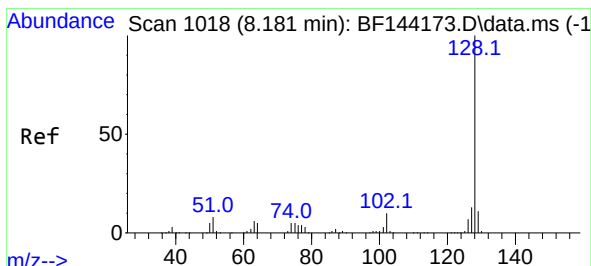
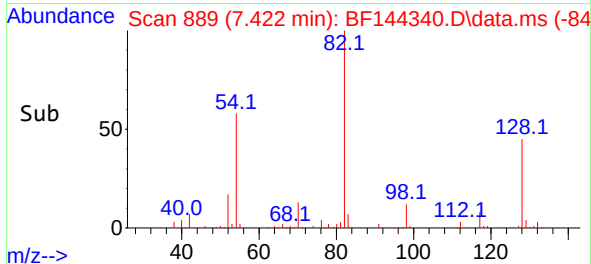
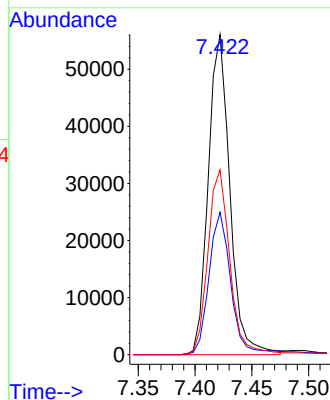
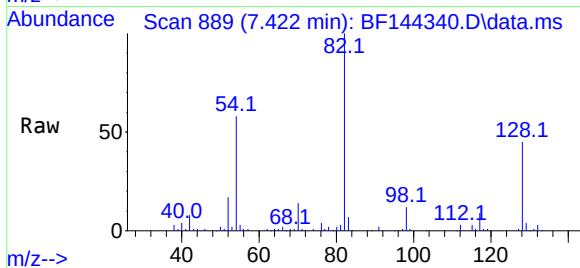
#23
Nitrobenzene-d5
Concen: 26.402 ng
RT: 7.422 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP

Tgt Ion: 82 Resp: 74009
Ion Ratio Lower Upper
82 100
128 44.5 34.7 52.1
54 57.8 49.5 74.3

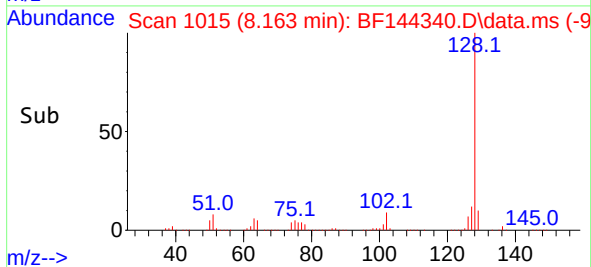
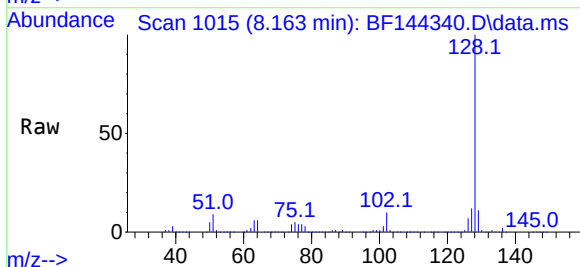
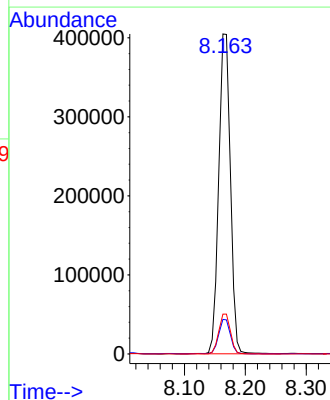
Manual Integrations
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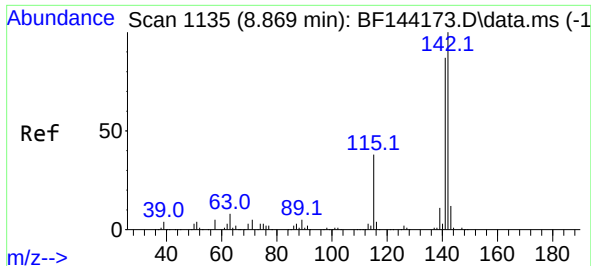
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#31
Naphthalene
Concen: 69.798 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Tgt Ion:128 Resp: 537530
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.5 10.3 15.5





#37

2-Methylnaphthalene

Concen: 82.653 ng

RT: 8.857 min Scan# 1135

Delta R.T. -0.012 min

Lab File: BF144340.D

Acq: 24 Nov 2025 23:13

Instrument :

BNA_F

ClientSampleId :

RBR200028-RT5376-COMP

Tgt Ion:142 Resp: 42558

Ion Ratio Lower Upper

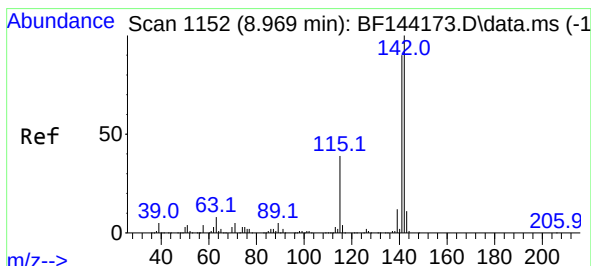
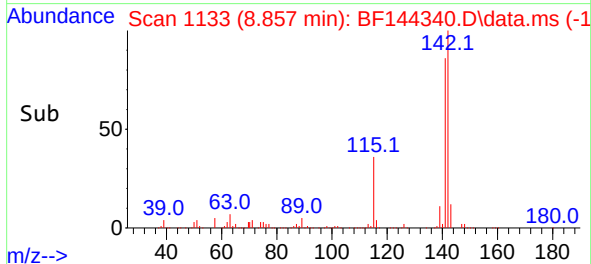
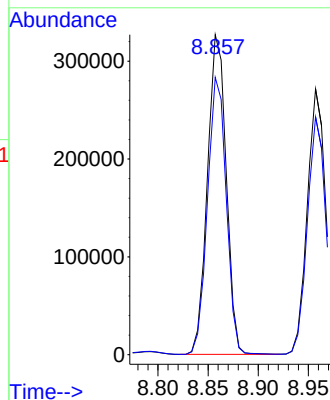
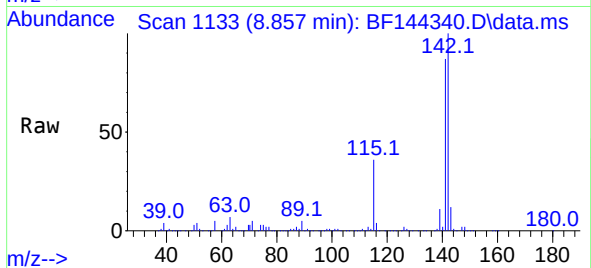
142 100

141 86.6 69.9 104.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#38

1-Methylnaphthalene

Concen: 69.280 ng

RT: 8.957 min Scan# 1150

Delta R.T. -0.012 min

Lab File: BF144340.D

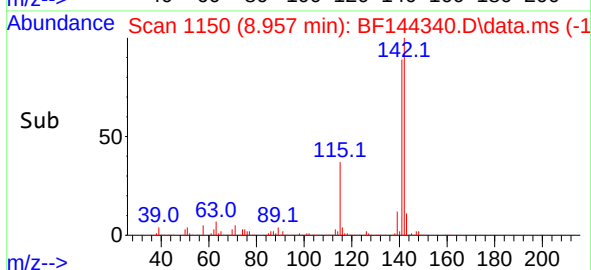
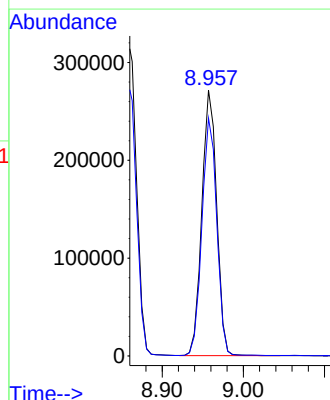
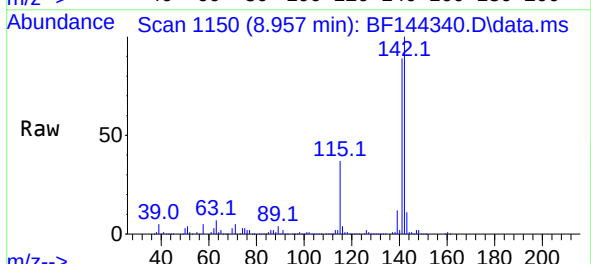
Acq: 24 Nov 2025 23:13

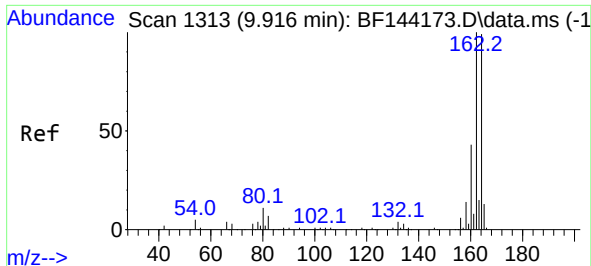
Tgt Ion:142 Resp: 344196

Ion Ratio Lower Upper

142 100

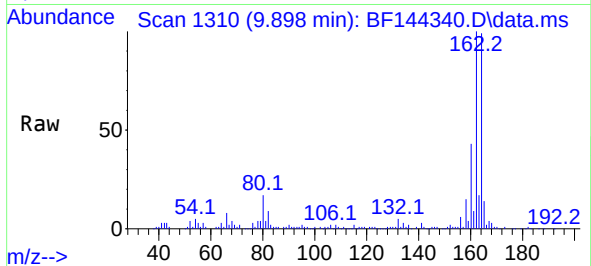
141 89.5 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

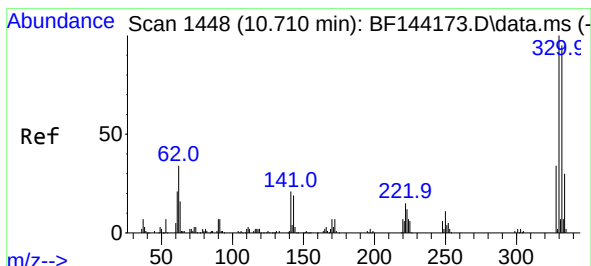
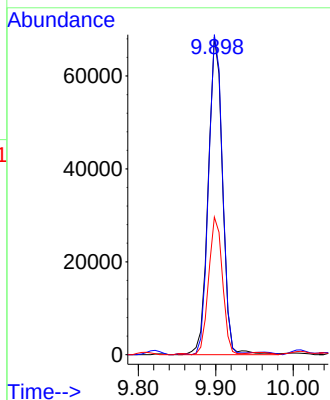
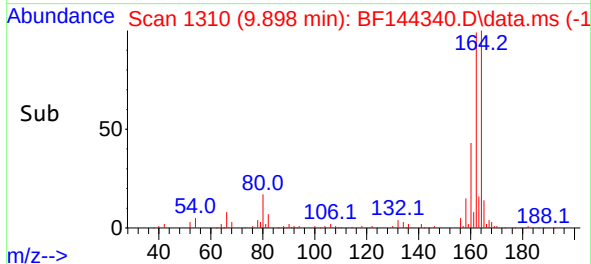
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



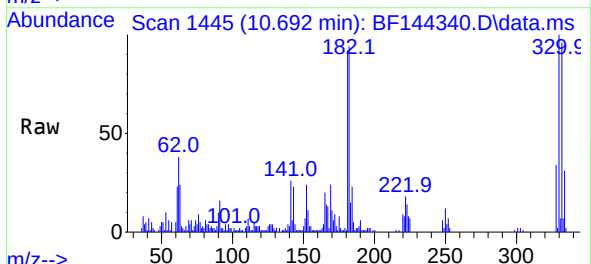
Tgt Ion:164 Resp: 8795
Ion Ratio Lower Upper
164 100
162 100.8 81.1 121.7
160 43.3 34.5 51.7

Manual Integrations
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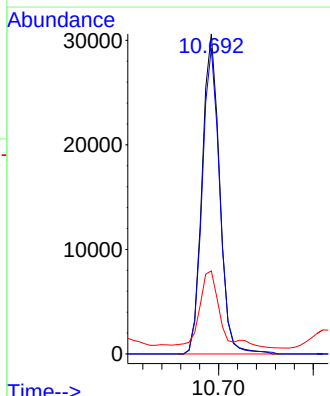
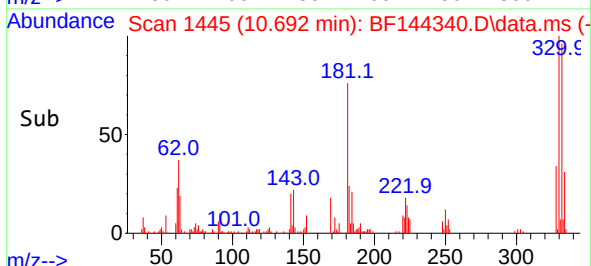
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

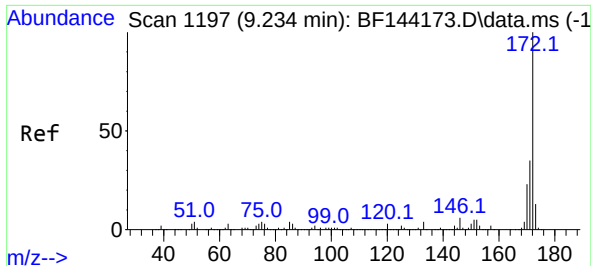


#42
2,4,6-Tribromophenol
Concen: 35.527 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13



Tgt Ion:330 Resp: 39213
Ion Ratio Lower Upper
330 100
332 95.9 76.7 115.1
141 23.7 17.8 26.8





#45

2-Fluorobiphenyl

Concen: 24.957 ng

RT: 9.216 min Scan# 1194

Delta R.T. -0.012 min

Lab File: BF144340.D

Acq: 24 Nov 2025 23:13

Instrument :

BNA_F

ClientSampleId :

RBR200028-RT5376-COMP

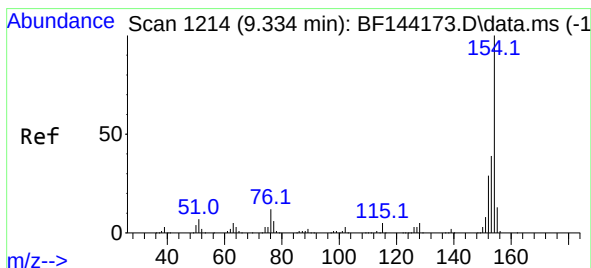
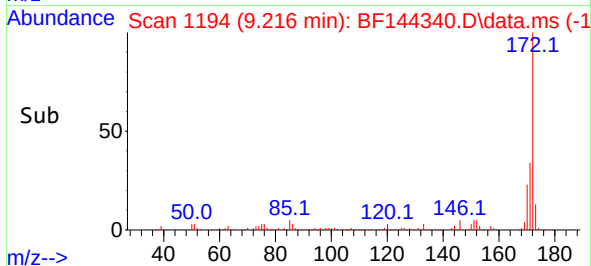
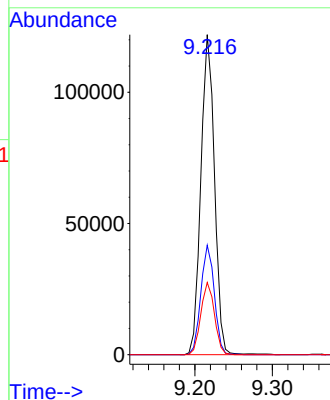
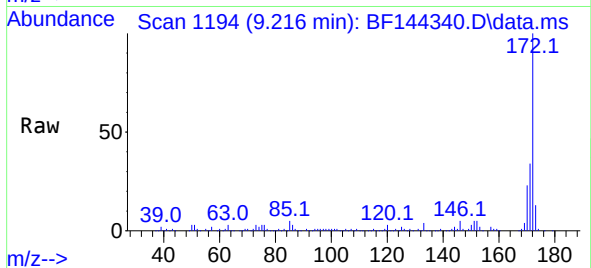
Tgt Ion:172 Resp: 148628

Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.1	42.1
170	22.5	18.6	28.0

Manual Integrations

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Supervised By :mohammad ahmed 11/26/2025



#46

1,1'-Biphenyl

Concen: 9.535 ng

RT: 9.322 min Scan# 1212

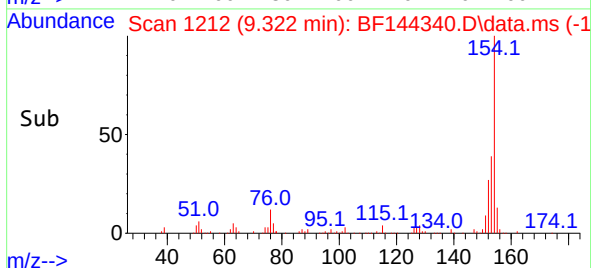
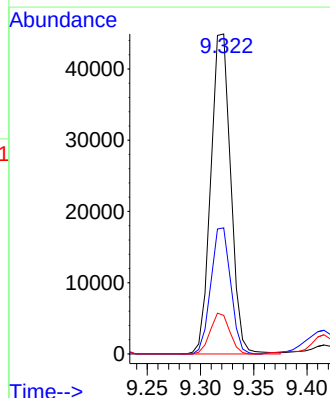
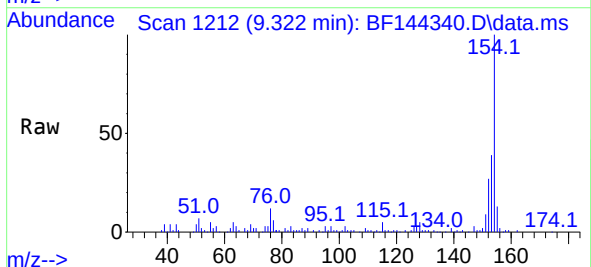
Delta R.T. -0.012 min

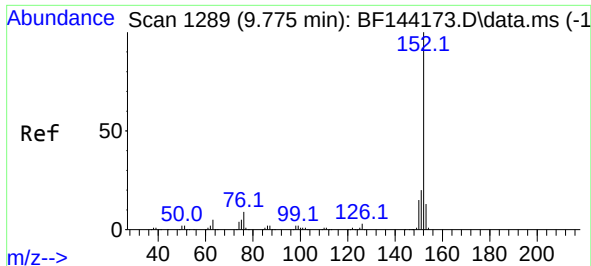
Lab File: BF144340.D

Acq: 24 Nov 2025 23:13

Tgt Ion:154 Resp: 58541

Ion	Ratio	Lower	Upper
154	100		
153	39.4	19.2	59.2
76	12.0	0.0	31.8





#49

Acenaphthylene

Concen: 22.468 ng

RT: 9.763 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF144340.D

Acq: 24 Nov 2025 23:13

Instrument :

BNA_F

ClientSampleId :

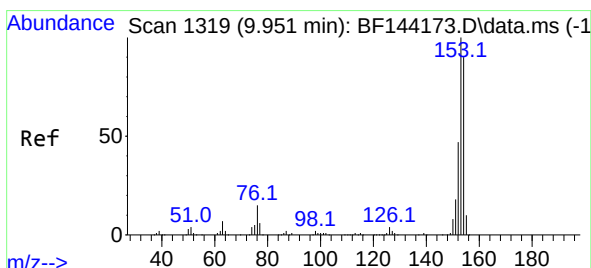
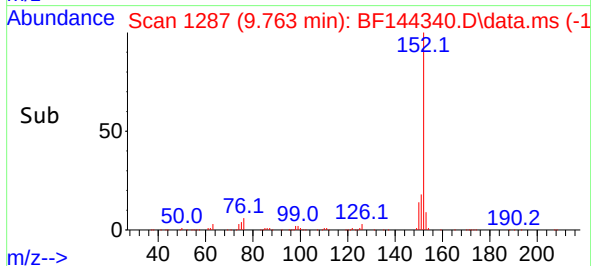
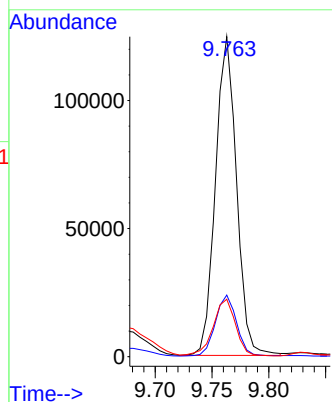
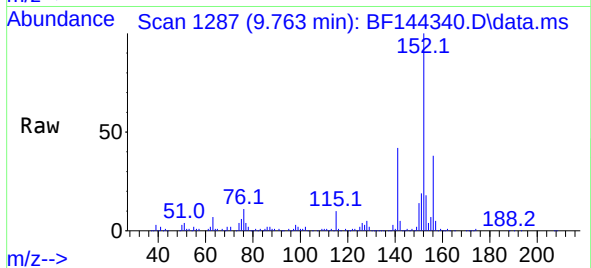
RBR200028-RT5376-COMP

Tgt Ion:152 Resp: 16035

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.9	23.9
153	17.9	10.5	15.7

Manual Integrations
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Supervised By :mohammad ahmed 11/26/2025



#52

Acenaphthene

Concen: 18.495 ng

RT: 9.934 min Scan# 1316

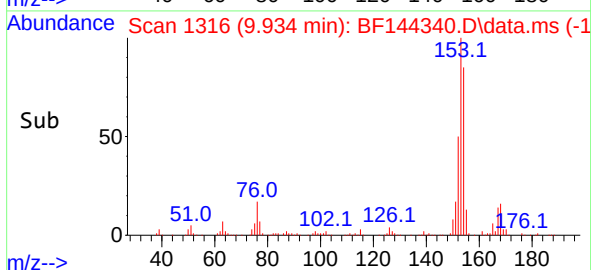
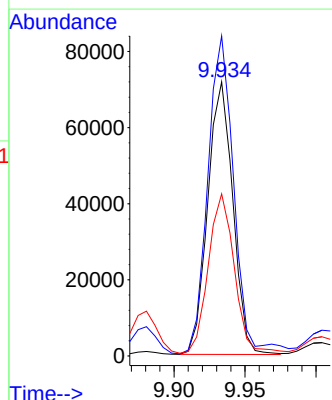
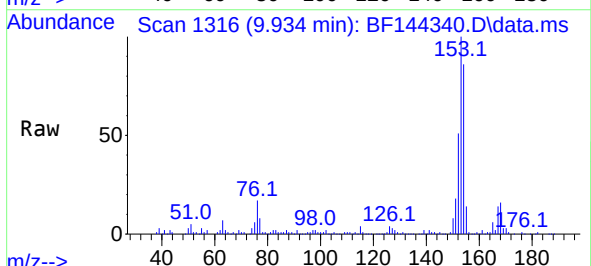
Delta R.T. -0.012 min

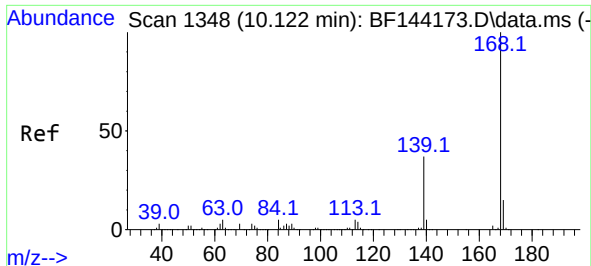
Lab File: BF144340.D

Acq: 24 Nov 2025 23:13

Tgt Ion:154 Resp: 88267

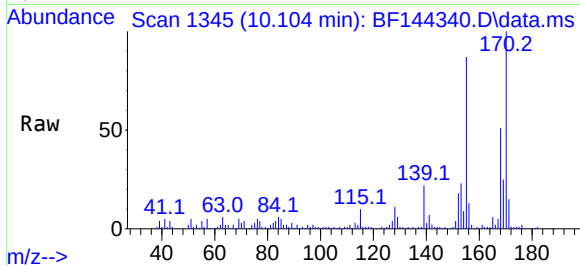
Ion	Ratio	Lower	Upper
154	100		
153	116.7	89.0	133.4
152	59.1	42.2	63.4





#55
Dibenzenofuran
Concen: 5.424 ng
RT: 10.104 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

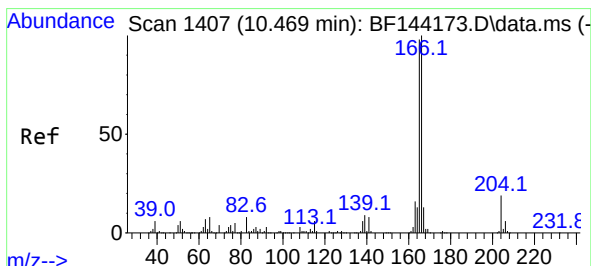
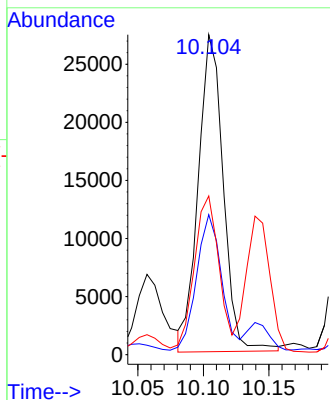
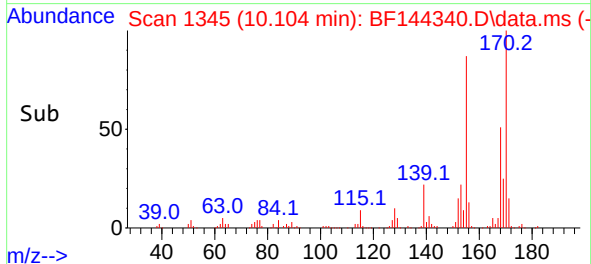
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



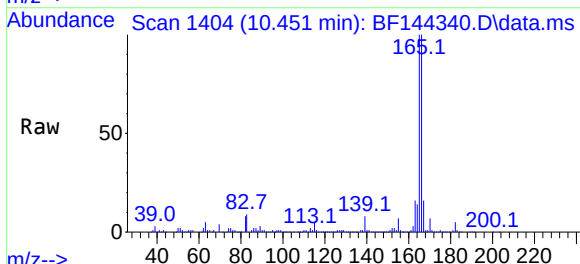
Tgt Ion:168 Resp: 3625
Ion Ratio Lower Upper
168 100
139 43.8 30.2 45.2
169 49.6 12.2 18.4

Manual Integrations
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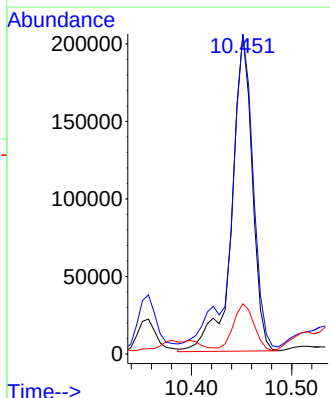
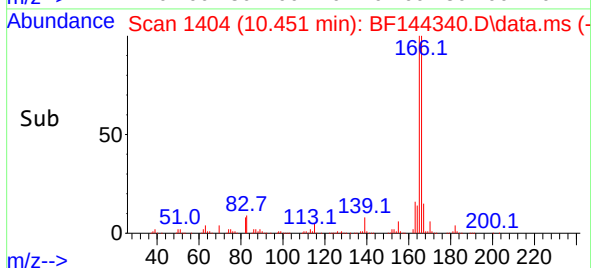
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

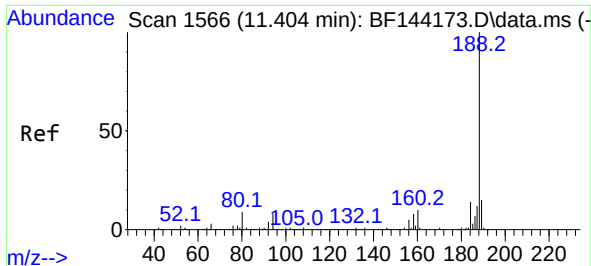


#58
Fluorene
Concen: 57.228 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13



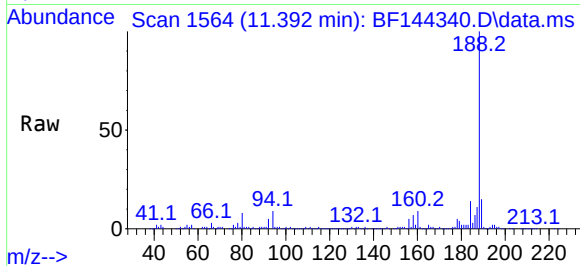
Tgt Ion:166 Resp: 290834
Ion Ratio Lower Upper
166 100
165 100.3 78.6 118.0
167 15.8 10.4 15.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1564
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

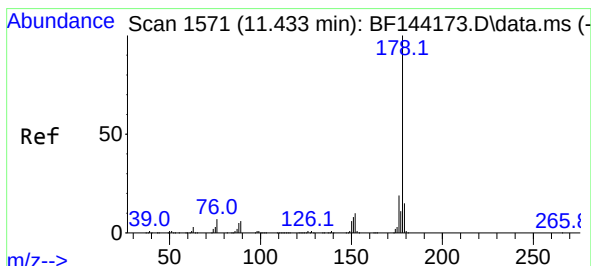
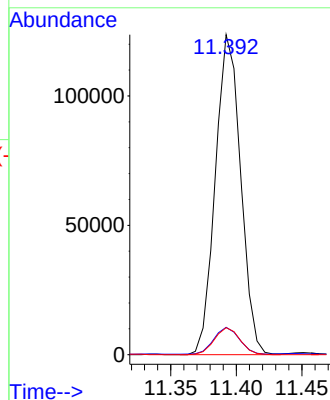
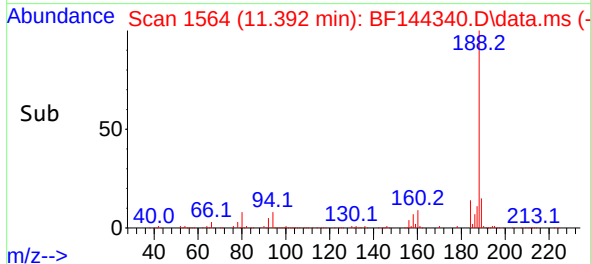
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



Tgt Ion:188 Resp: 16583
Ion Ratio Lower Upper
188 100
94 8.6 6.2 9.2
80 8.4 6.9 10.3

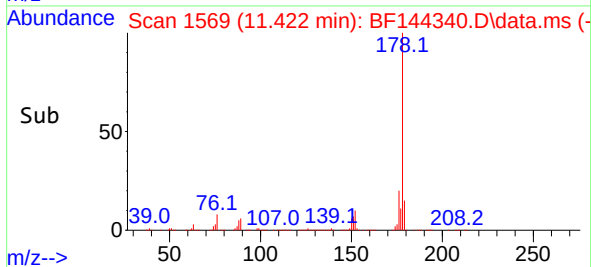
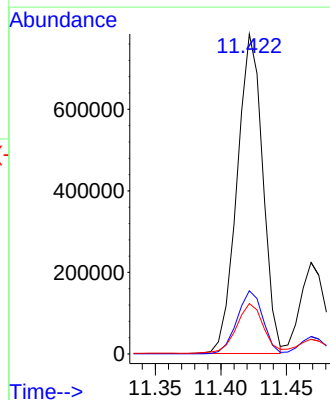
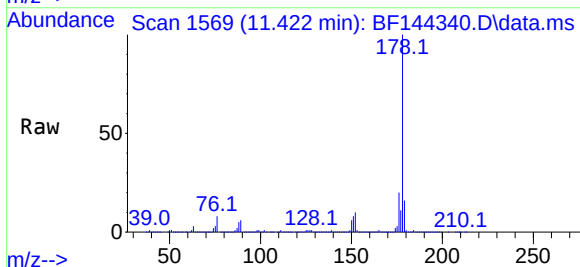
Manual Integrations
APPROVED

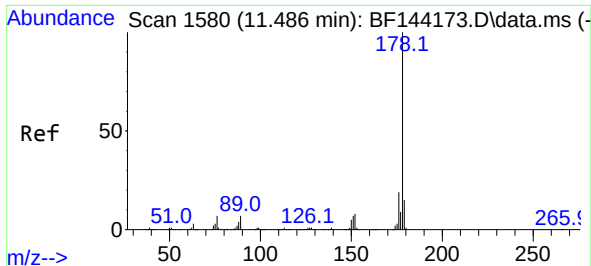
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#71
Phenanthrene
Concen: 129.442 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

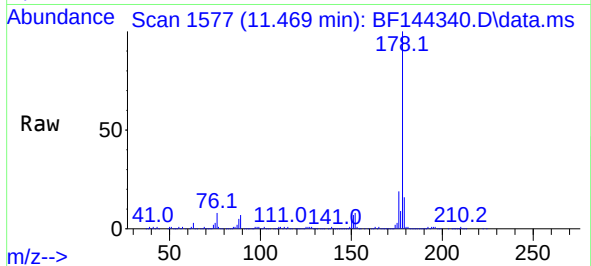
Tgt Ion:178 Resp: 1068776
Ion Ratio Lower Upper
178 100
176 19.8 15.5 23.3
179 15.8 12.2 18.4





#72
 Anthracene
 Concen: 32.931 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF144340.D
 Acq: 24 Nov 2025 23:13

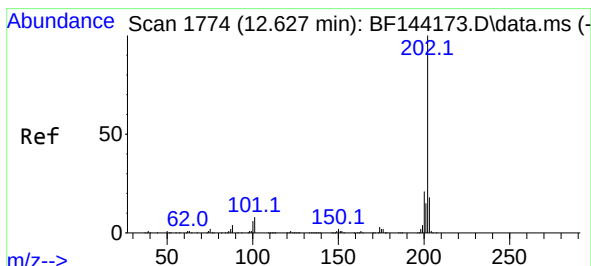
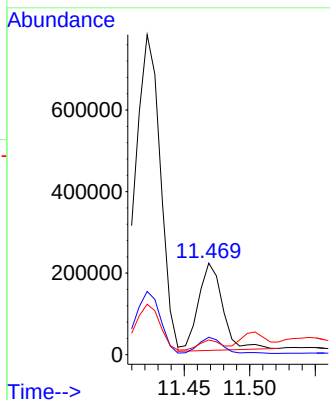
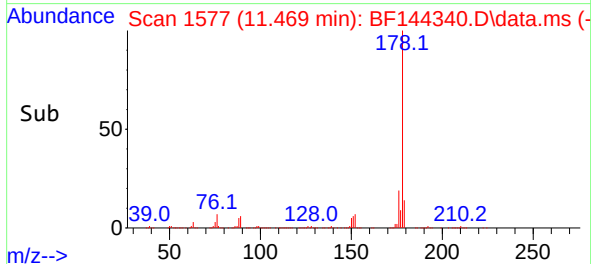
Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMP



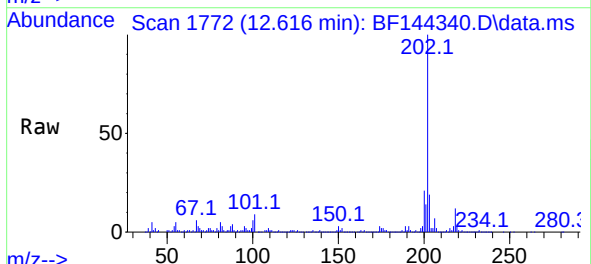
Tgt Ion:178 Resp: 276479
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.3 22.9
 179 16.1 12.0 18.0

Manual Integrations
 APPROVED

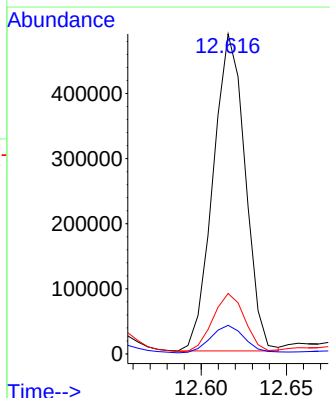
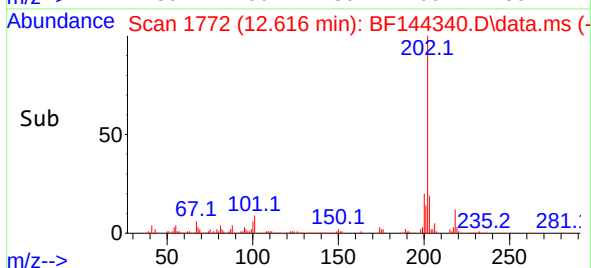
Reviewed By :Jagrut Upadhyay 11/25/2025
 Supervised By :mohammad ahmed 11/26/2025

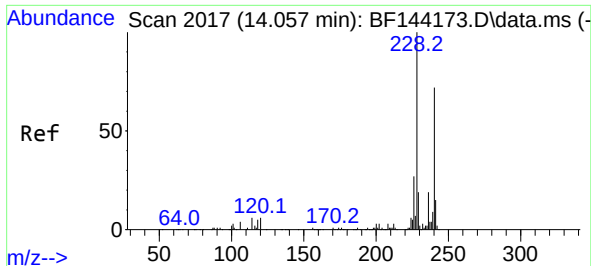


#75
 Fluoranthene
 Concen: 74.822 ng
 RT: 12.616 min Scan# 1772
 Delta R.T. -0.006 min
 Lab File: BF144340.D
 Acq: 24 Nov 2025 23:13



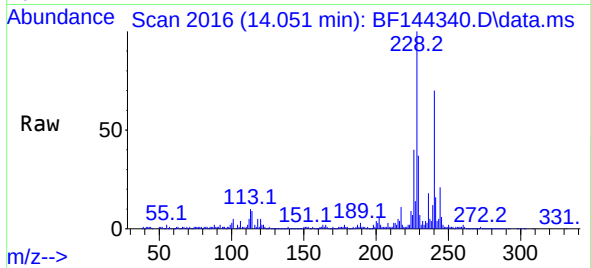
Tgt Ion:202 Resp: 638175
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 27.9
 203 18.9 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.000 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

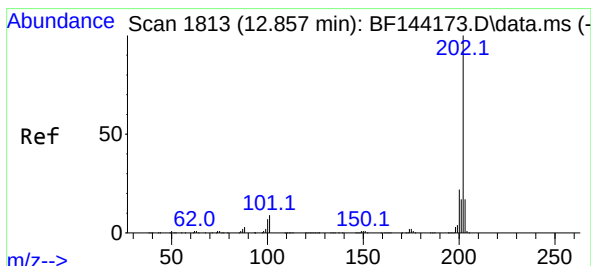
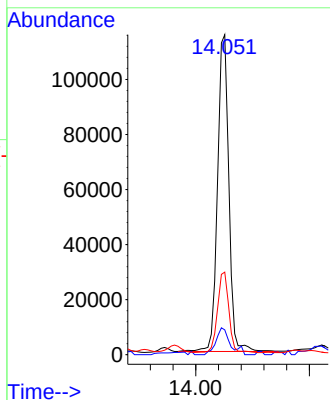
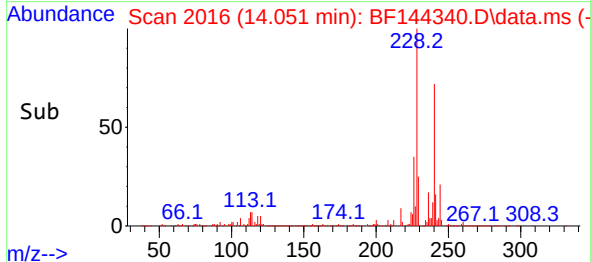
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



Tgt Ion:240 Resp: 159450
Ion Ratio Lower Upper
240 100
120 7.7 6.6 10.0
236 25.8 21.4 32.2

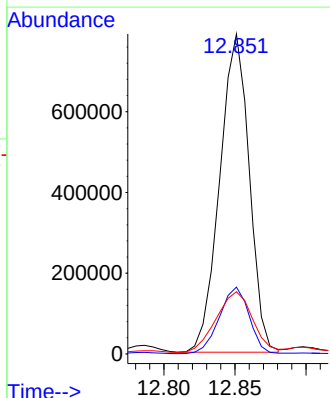
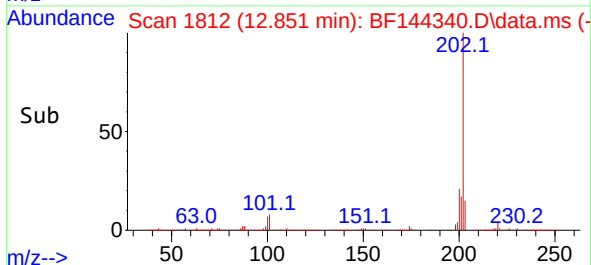
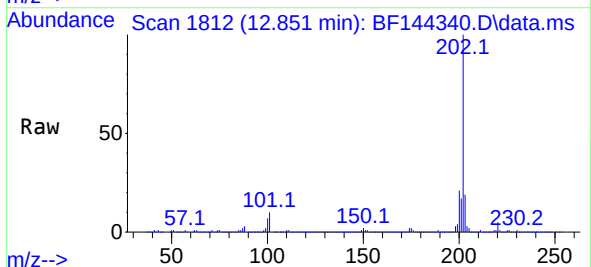
Manual Integrations
APPROVED

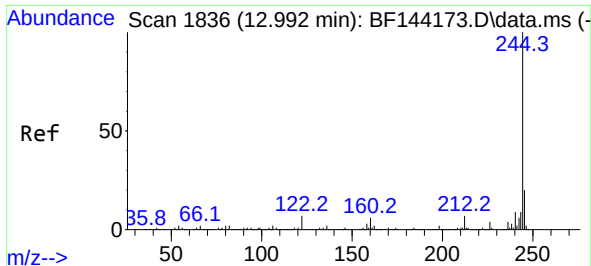
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#78
Pyrene
Concen: 88.581 ng
RT: 12.851 min Scan# 1812
Delta R.T. -0.000 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

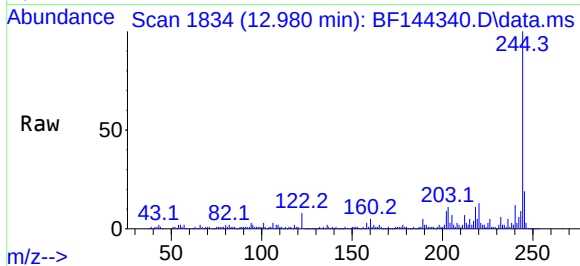
Tgt Ion:202 Resp: 1138861
Ion Ratio Lower Upper
202 100
200 20.9 17.2 25.8
203 19.4 13.7 20.5





#79
Terphenyl-d14
Concen: 19.100 ng
RT: 12.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

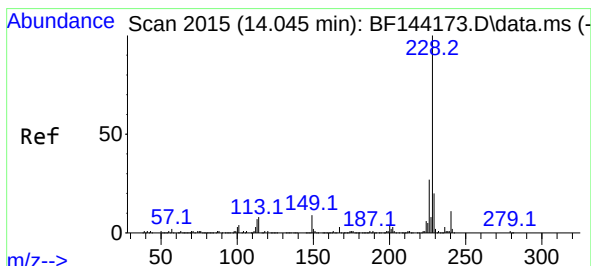
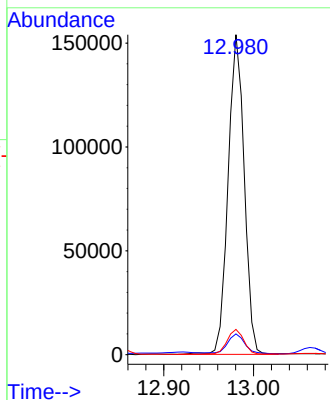
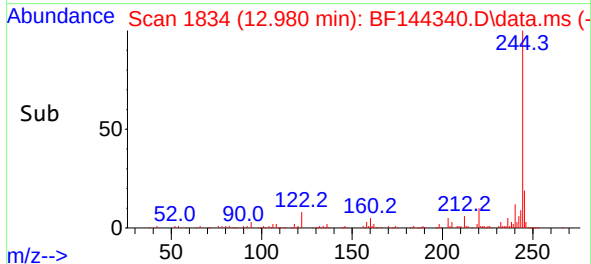
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



Tgt Ion:244 Resp: 19174
Ion Ratio Lower Upper
244 100
212 6.5 5.3 7.9
122 7.9 5.6 8.4

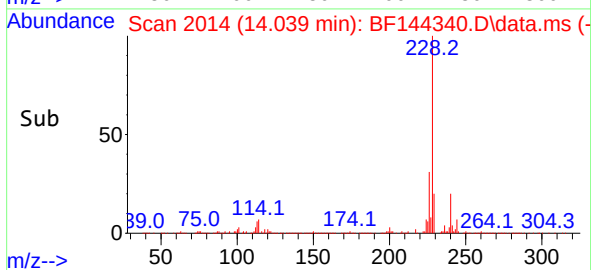
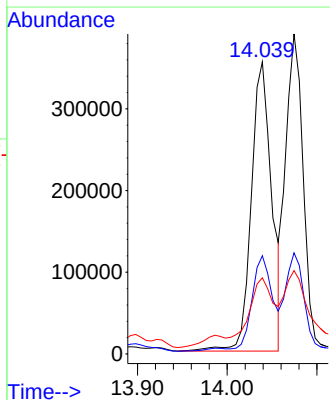
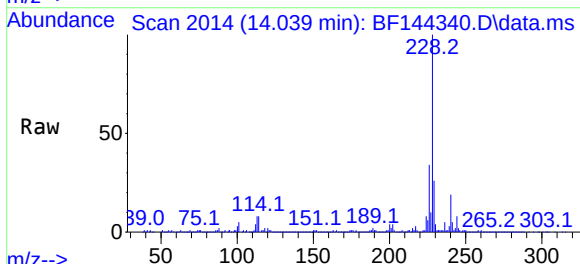
Manual Integrations
APPROVED

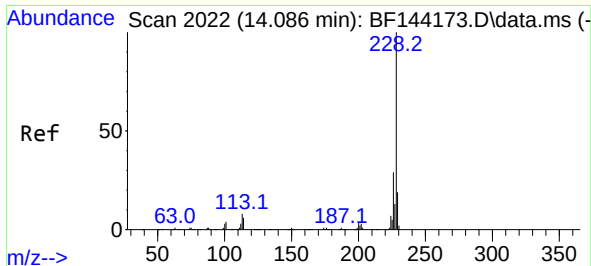
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#81
Benzo(a)anthracene
Concen: 50.663 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

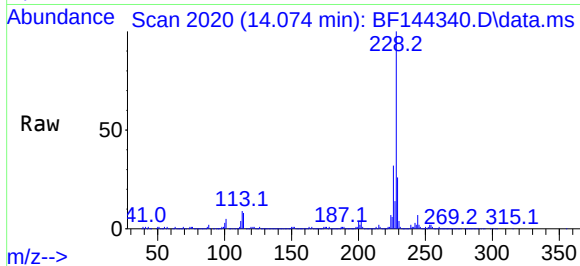
Tgt Ion:228 Resp: 559906
Ion Ratio Lower Upper
228 100
226 33.6 21.8 32.8#
229 26.1 15.8 23.6#





#83
Chrysene
Concen: 51.339 ng
RT: 14.074 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

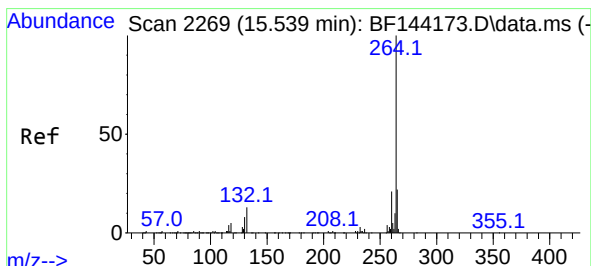
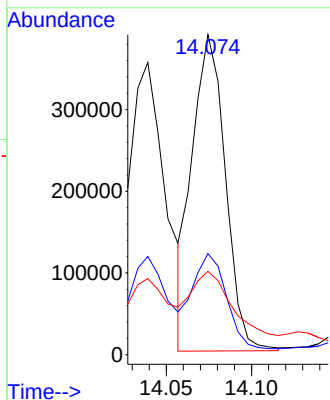
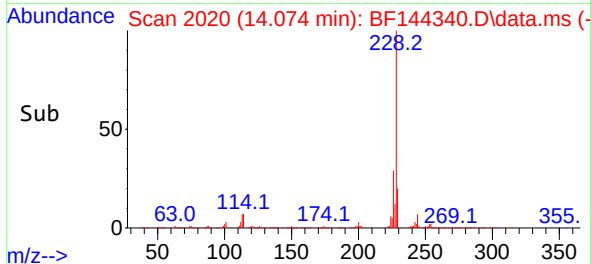
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



Tgt Ion:228 Resp: 52375
Ion Ratio Lower Upper
228 100
226 31.6 22.9 34.3
229 26.0 15.0 22.6

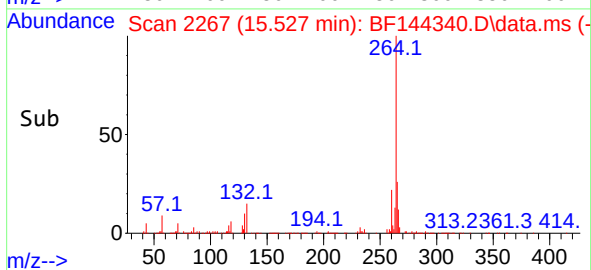
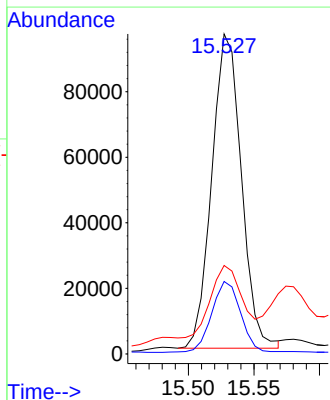
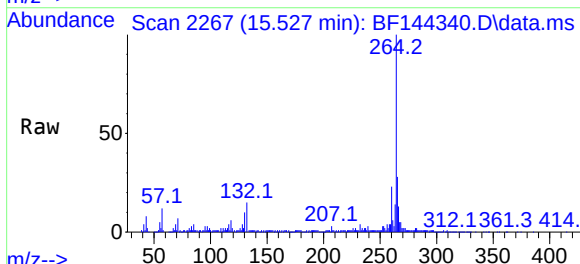
Manual Integrations
APPROVED

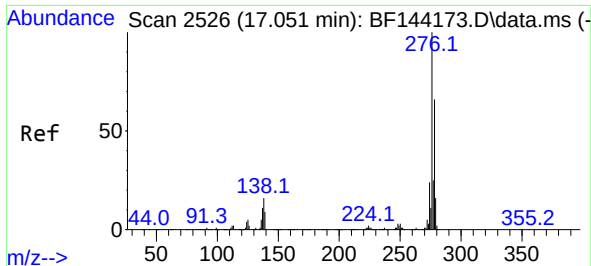
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Tgt Ion:264 Resp: 150329
Ion Ratio Lower Upper
264 100
260 22.7 17.1 25.7
265 27.6 17.4 26.0





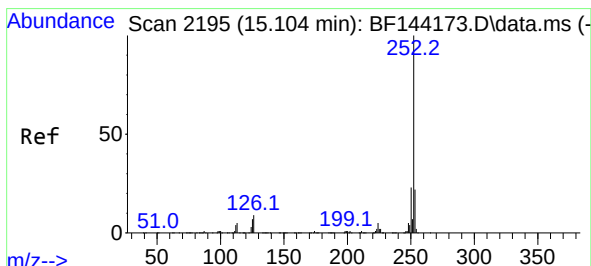
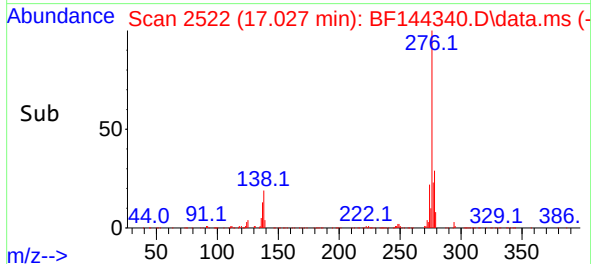
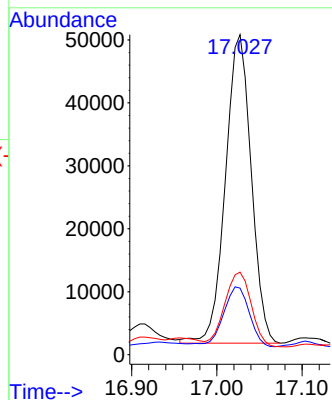
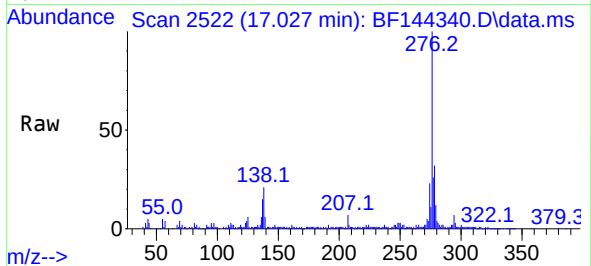
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.557 ng
RT: 17.027 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP

Tgt Ion:276 Resp: 10313
Ion Ratio Lower Upper
276 100
138 19.3 13.9 20.9
277 25.1 19.8 29.6

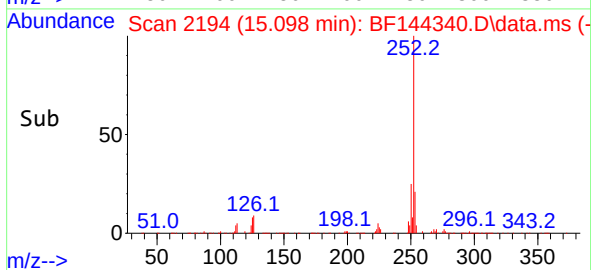
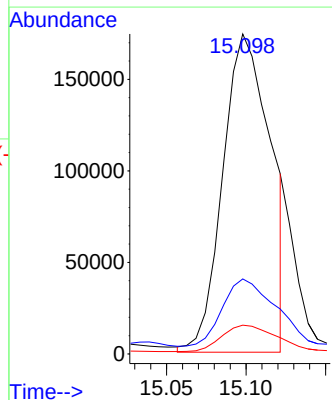
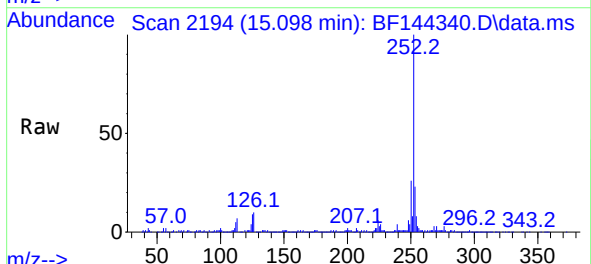
Manual Integrations
APPROVED

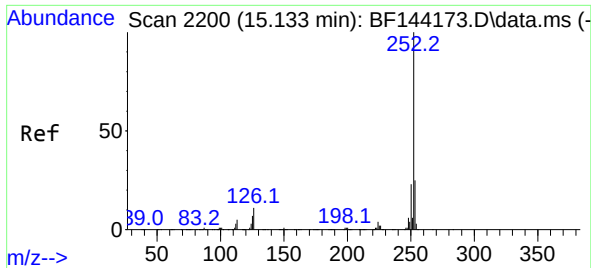
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#88
Benzo(b)fluoranthene
Concen: 42.525 ng m
RT: 15.098 min Scan# 2194
Delta R.T. -0.000 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Tgt Ion:252 Resp: 363441
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.2
125 9.0 5.3 7.9#





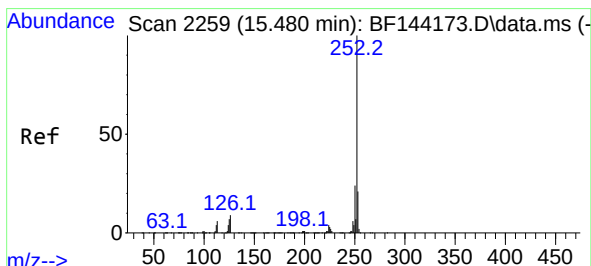
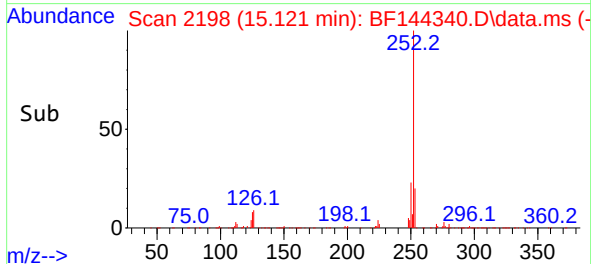
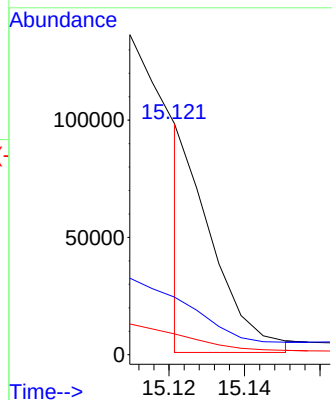
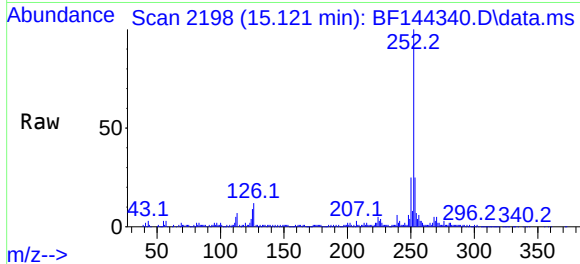
#89
Benzo(k)fluoranthene
Concen: 5.984 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP

Tgt Ion:252 Resp: 4787
Ion Ratio Lower Upper
252 100
253 25.0 18.0 27.0
125 9.0 5.4 8.2

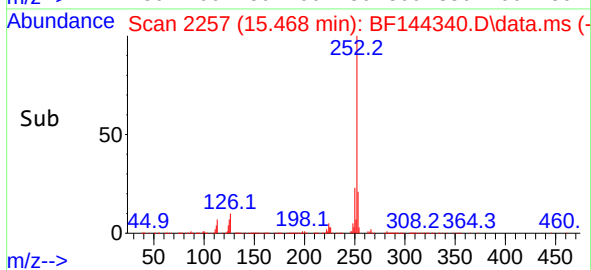
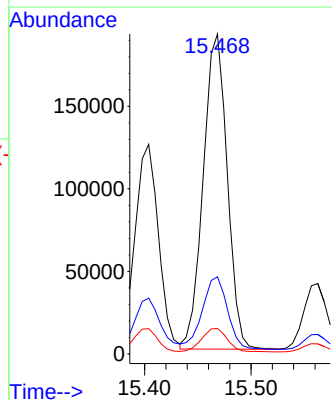
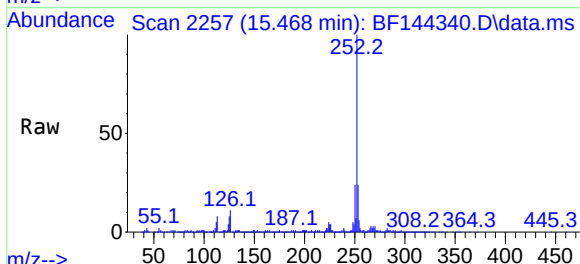
Manual Integrations
APPROVED

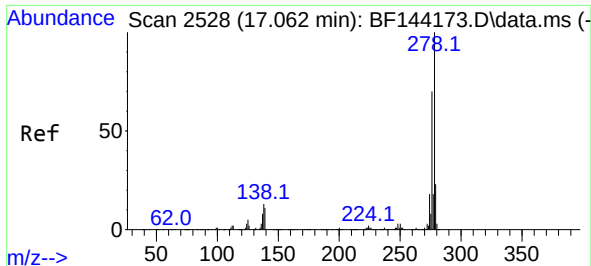
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#90
Benzo(a)pyrene
Concen: 37.995 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.006 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

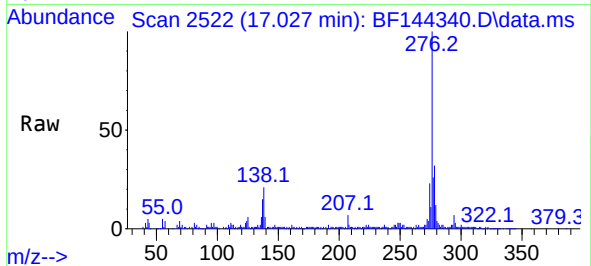
Tgt Ion:252 Resp: 299570
Ion Ratio Lower Upper
252 100
253 24.1 16.7 25.1
125 8.0 5.7 8.5





#91
Dibenzo(a,h)anthracene
Concen: 4.111 ng
RT: 17.027 min Scan# 2528
Delta R.T. -0.024 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

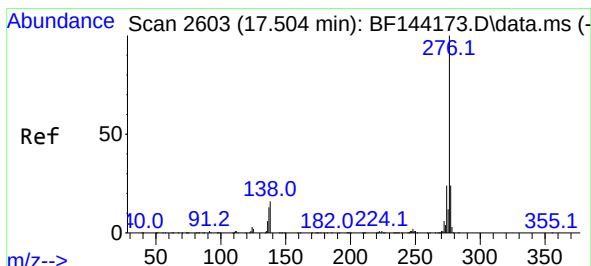
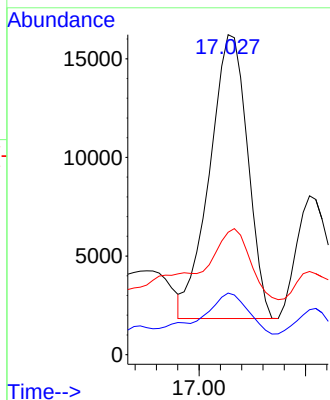
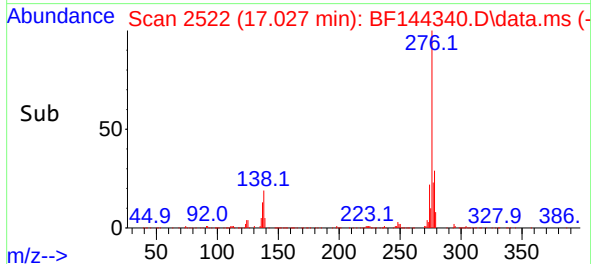
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMP



Tgt Ion:278 Resp: 35628
Ion Ratio Lower Upper
278 100
139 19.3 9.1 13.7
279 38.3 18.2 27.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#92
Benzo(g,h,i)perylene
Concen: 14.086 ng
RT: 17.480 min Scan# 2599
Delta R.T. -0.012 min
Lab File: BF144340.D
Acq: 24 Nov 2025 23:13

Tgt Ion:276 Resp: 120550
Ion Ratio Lower Upper
276 100
277 25.7 19.0 28.4
138 20.1 12.9 19.3

