

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111725\
 Data File : BF144267.D
 Acq On : 17 Nov 2025 14:59
 Operator : RC/JU
 Sample : Q3648-01 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-111425

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/18/2025
 Supervised By :Sohil Jodhani 11/18/2025

Quant Time: Nov 17 15:26:06 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	54191	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	178344	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	85178	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	134414	20.000	ng	0.00
76) Chrysene-d12	14.057	240	95343	20.000	ng	0.00
86) Perylene-d12	15.539	264	91685	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	54314	15.684	ng	0.00
7) Phenol-d6	6.498	99	60412	15.396	ng	0.00
23) Nitrobenzene-d5	7.422	82	36803	11.918	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	16411	15.353	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	81675	14.162	ng	0.00
79) Terphenyl-d14	12.986	244	77199	12.861	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.169	128	117932	13.901	ng	100
37) 2-Methylnaphthalene	8.863	142	66386	11.704	ng	100
38) 1-Methylnaphthalene	8.963	142	53149	9.711	ng	96
46) 1,1'-Biphenyl	9.327	154	18344	3.085	ng	99
49) Acenaphthylene	9.769	152	48120	6.962	ng	97
52) Acenaphthene	9.939	154	105338	22.792	ng	98
55) Dibenzofuran	10.110	168	118852	18.361	ng	98
58) Fluorene	10.457	166	188079	38.216	ng	99
71) Phenanthrene	11.427	178	1111569	166.097	ng	100
72) Anthracene	11.480	178	380058	55.851	ng	99
73) Carbazole	11.633	167	76481	13.217	ng	99
75) Fluoranthene	12.627	202	1604832	232.142	ng	99
78) Pyrene	12.857	202	1443481	187.772	ng	97
81) Benzo(a)anthracene	14.045	228	862104	130.464	ng	97
83) Chrysene	14.080	228	674560m	110.583	ng	
87) Indeno(1,2,3-cd)pyrene	17.045	276	283403	43.060	ng	96
88) Benzo(b)fluoranthene	15.109	252	692763m	132.905	ng	
89) Benzo(k)fluoranthene	15.121	252	340212m	69.732	ng	
90) Benzo(a)pyrene	15.480	252	548264	114.015	ng	96
92) Benzo(g,h,i)perylene	17.498	276	262729	50.335	ng	98

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

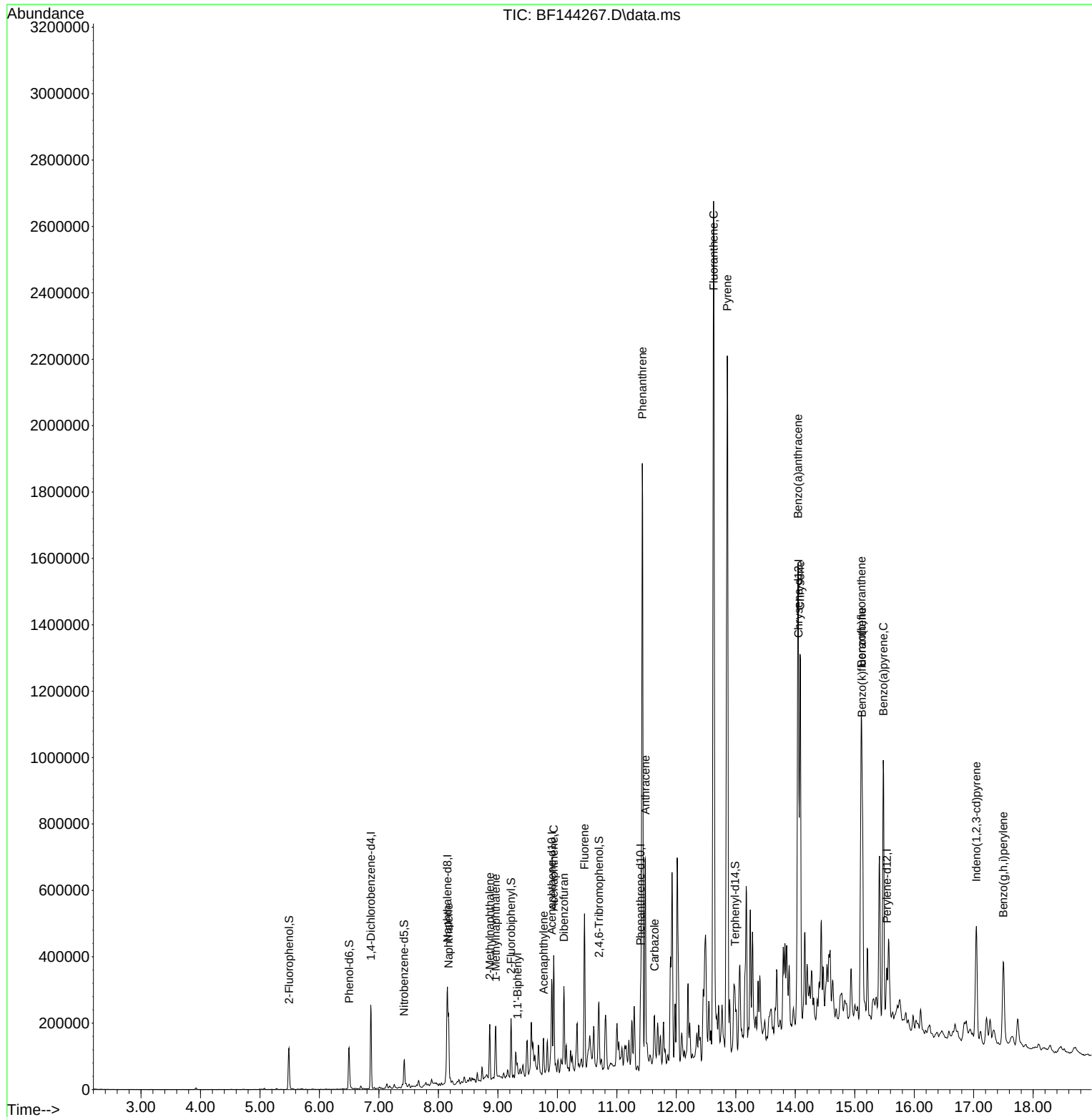
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111725\
Data File : BF144267.D
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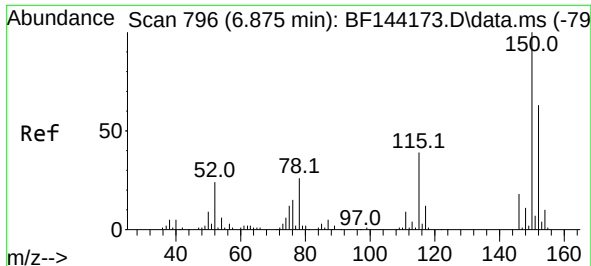
Instrument :
BNA_F
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OR-02-111425

Quant Time: Nov 17 15:26:06 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
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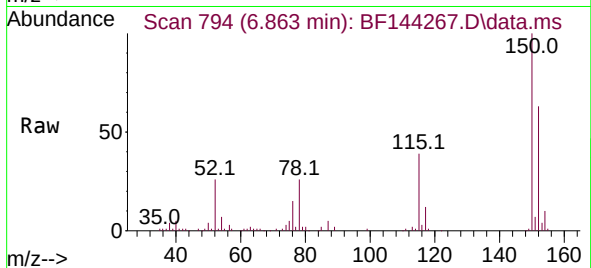
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

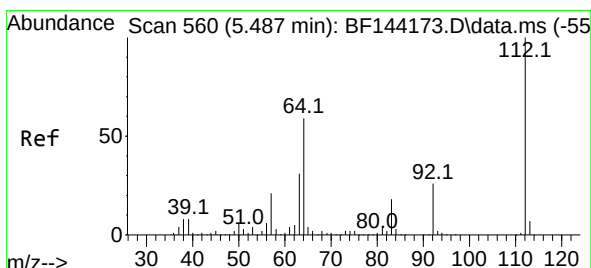
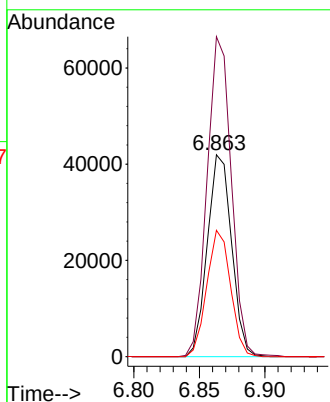
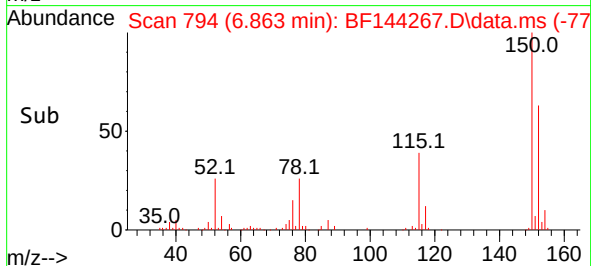
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



Tgt Ion:152 Resp: 54191
Ion Ratio Lower Upper
152 100
150 158.5 127.4 191.0
115 62.6 49.5 74.3

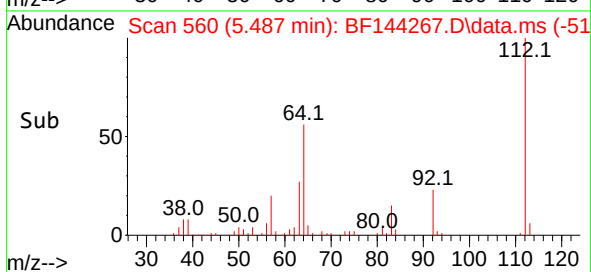
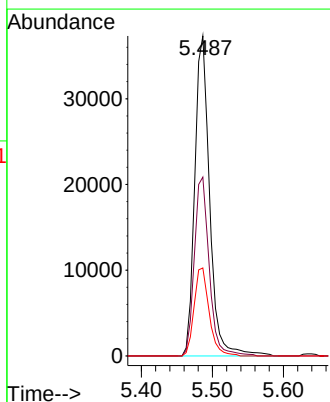
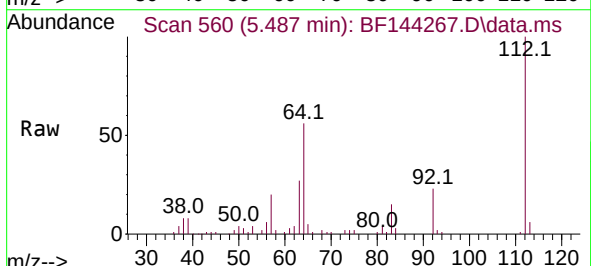
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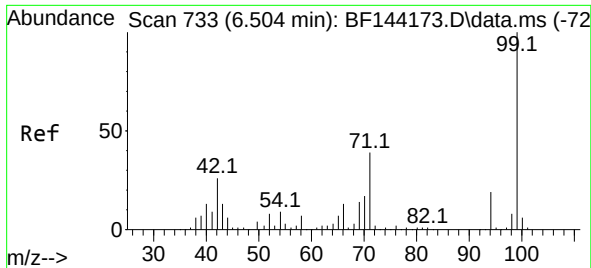
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#5
2-Fluorophenol
Concen: 15.684 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

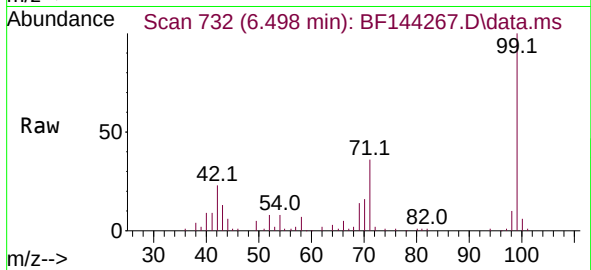
Tgt Ion:112 Resp: 54314
Ion Ratio Lower Upper
112 100
64 55.9 47.2 70.8
63 27.5 24.4 36.6





#7
Phenol-d6
Concen: 15.396 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

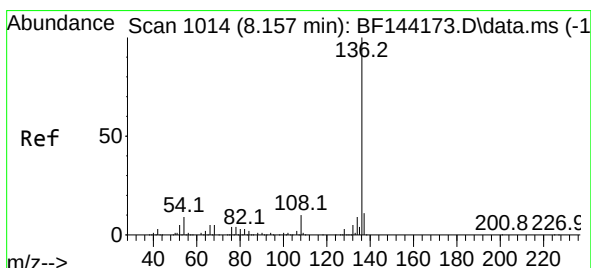
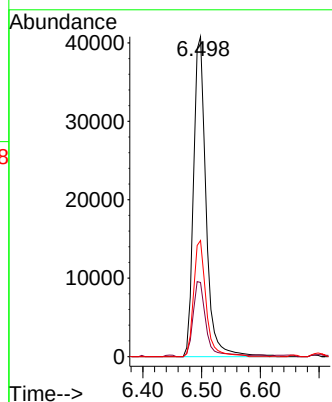
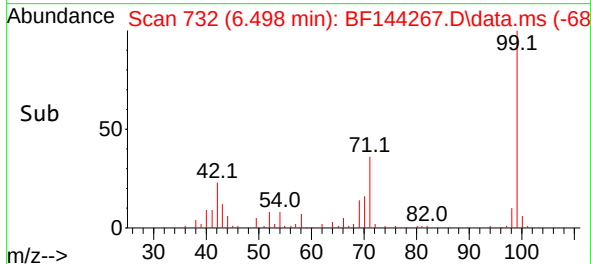
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



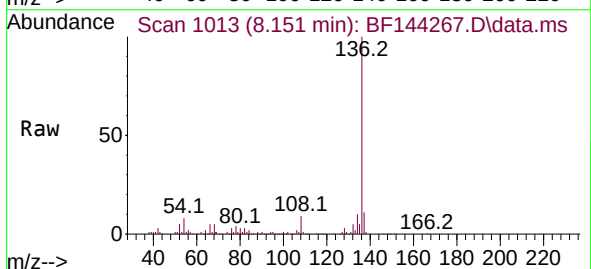
Tgt Ion: 99 Resp: 60412
Ion Ratio Lower Upper
99 100
42 23.2 20.9 31.3
71 36.3 31.4 47.2

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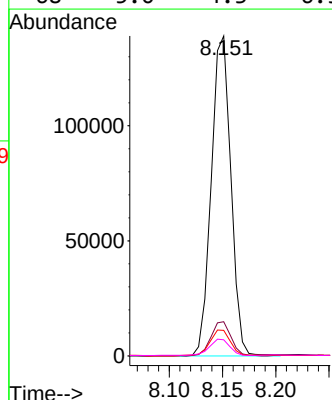
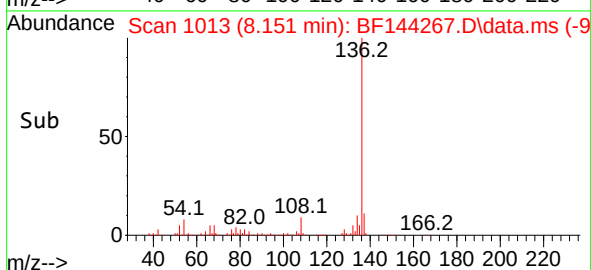
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

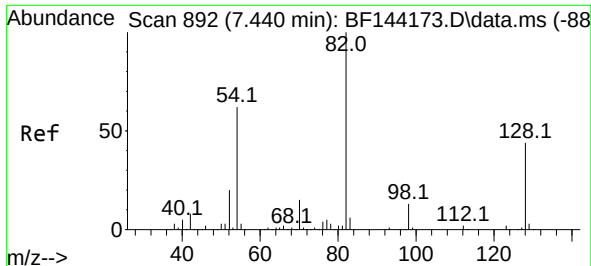


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



Tgt Ion:136 Resp: 178344
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 8.0 7.0 10.6
68 5.0 4.3 6.5





#23

Nitrobenzene-d5

Concen: 11.918 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144267.D

Acq: 17 Nov 2025 14:59

Instrument :

BNA_F

ClientSampleId :

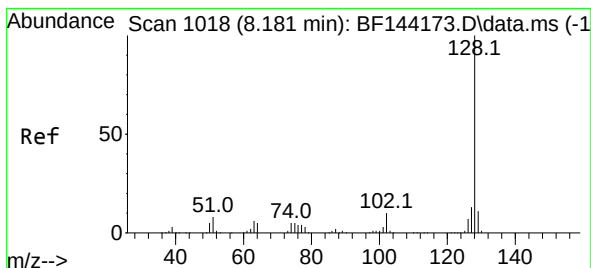
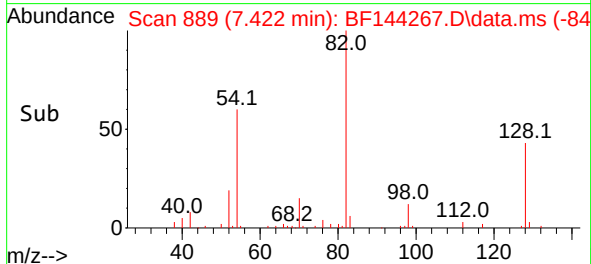
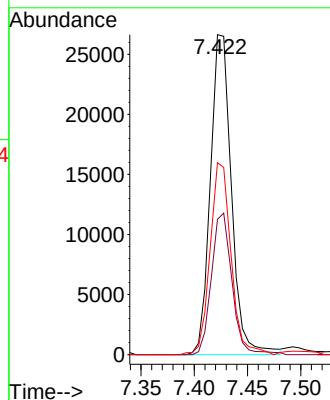
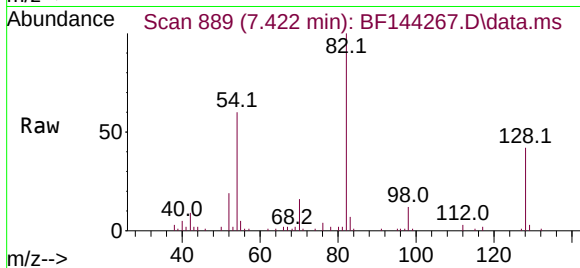
OR-02-111425

Tgt Ion:	82	Resp:	36803
Ion Ratio	Lower	Upper	
82	100		
128	42.3	34.7	52.1
54	60.0	49.5	74.3

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#31

Naphthalene

Concen: 13.901 ng

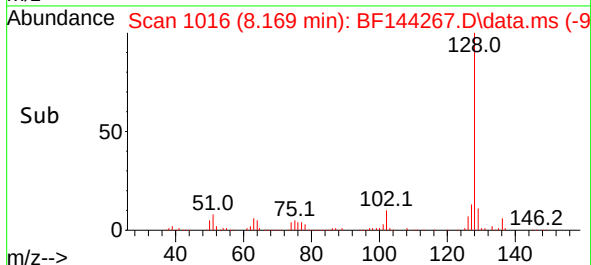
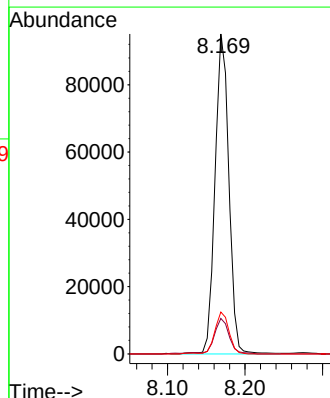
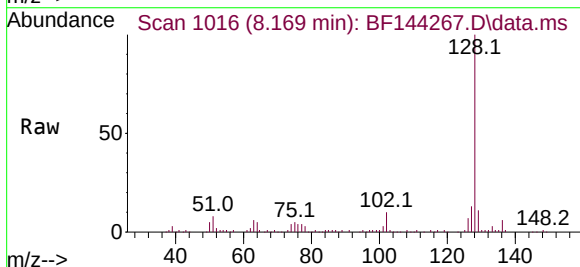
RT: 8.169 min Scan# 1016

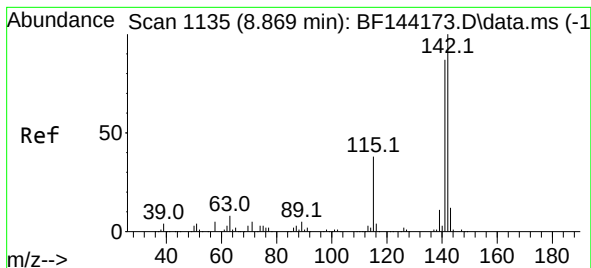
Delta R.T. -0.006 min

Lab File: BF144267.D

Acq: 17 Nov 2025 14:59

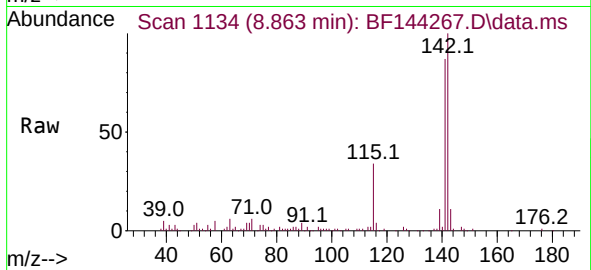
Tgt Ion:	128	Resp:	117932
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.9	13.3
127	13.1	10.3	15.5





#37
2-Methylnaphthalene
Concen: 11.704 ng
RT: 8.863 min Scan# 1135
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

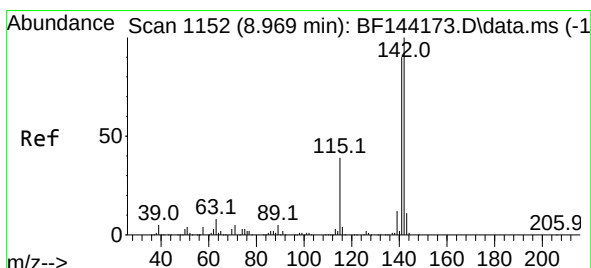
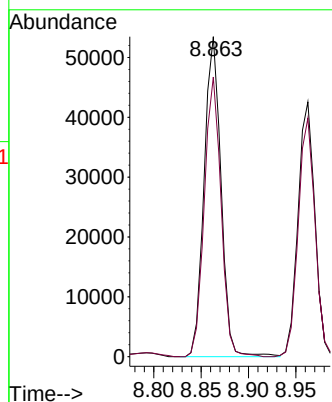
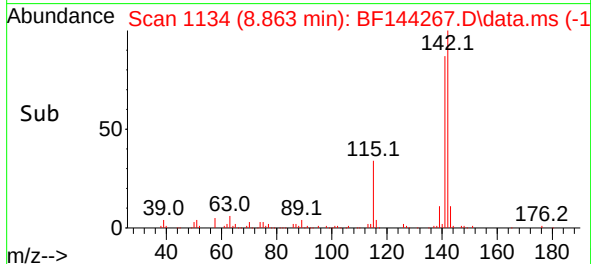
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



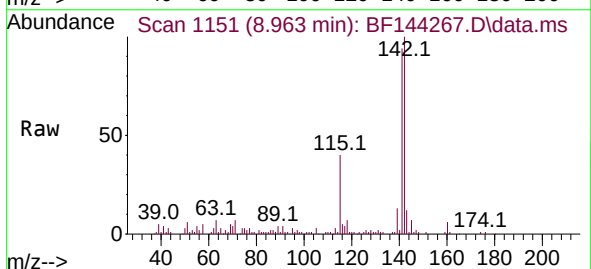
Tgt Ion:142 Resp: 66386
Ion Ratio Lower Upper
142 100
141 87.4 69.9 104.9

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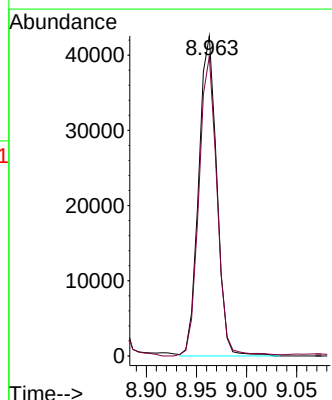
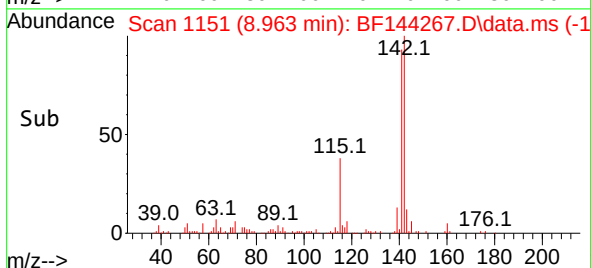
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

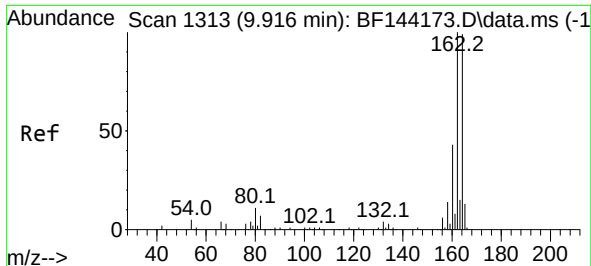


#38
1-Methylnaphthalene
Concen: 9.711 ng
RT: 8.963 min Scan# 1151
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



Tgt Ion:142 Resp: 53149
Ion Ratio Lower Upper
142 100
141 93.6 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1313

Delta R.T. -0.012 min

Lab File: BF144267.D

Acq: 17 Nov 2025 14:59

Instrument :

BNA_F

ClientSampleId :

OR-02-111425

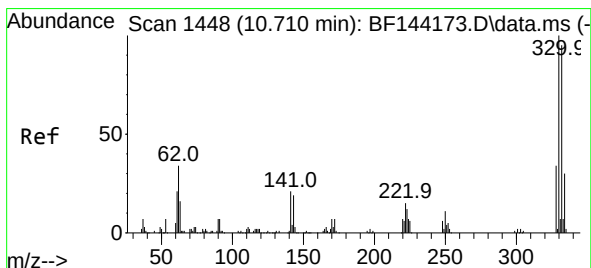
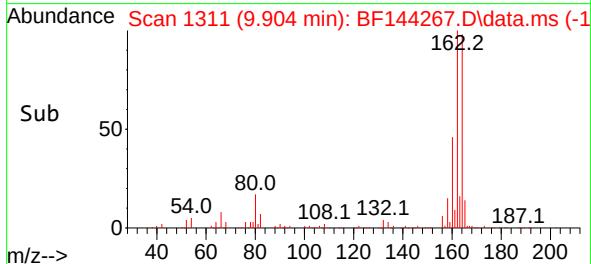
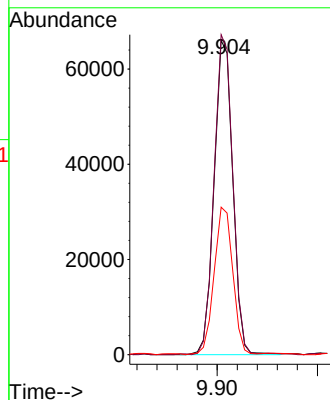
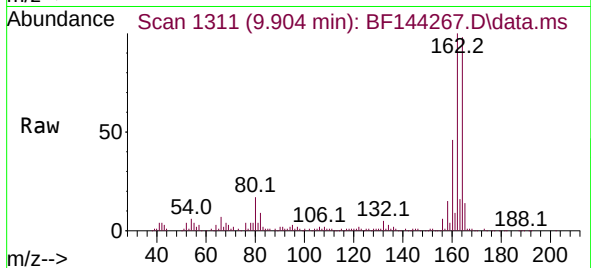
Tgt Ion:164 Resp: 85178

Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.1	121.7
160	46.9	34.5	51.7

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#42

2,4,6-Tribromophenol

Concen: 15.353 ng

RT: 10.698 min Scan# 1446

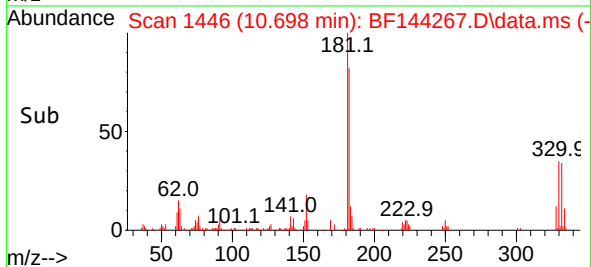
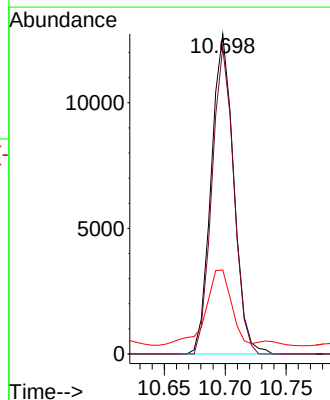
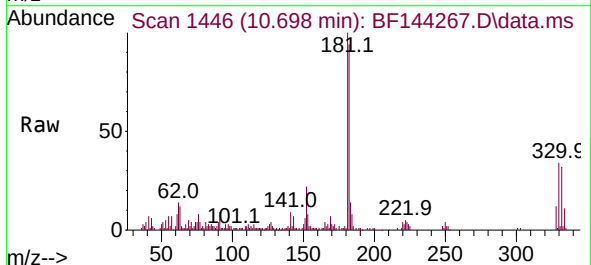
Delta R.T. -0.006 min

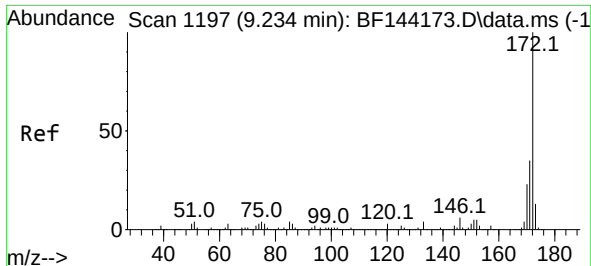
Lab File: BF144267.D

Acq: 17 Nov 2025 14:59

Tgt Ion:330 Resp: 16411

Ion	Ratio	Lower	Upper
330	100		
332	92.6	76.7	115.1
141	26.9	17.8	26.8





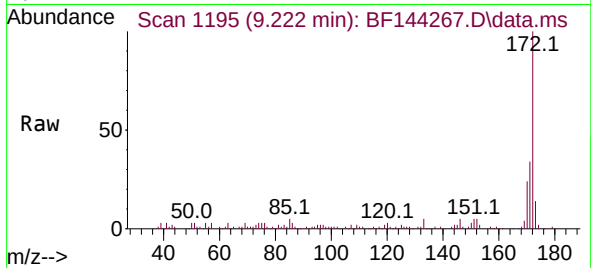
#45
2-Fluorobiphenyl
Concen: 14.162 ng
RT: 9.222 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

Instrument :

BNA_F

ClientSampleId :

OR-02-111425

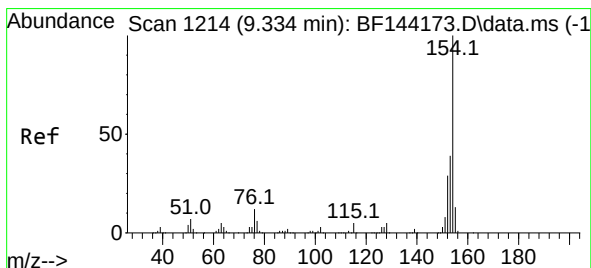
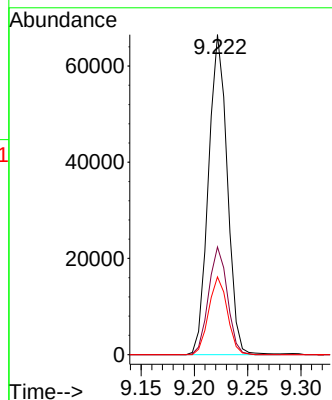
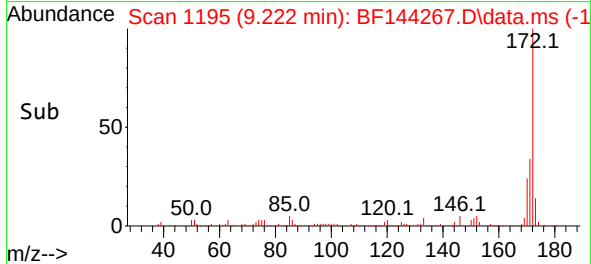


Tgt Ion:172 Resp: 81675
Ion Ratio Lower Upper
172 100
171 33.6 28.1 42.1
170 24.3 18.6 28.0

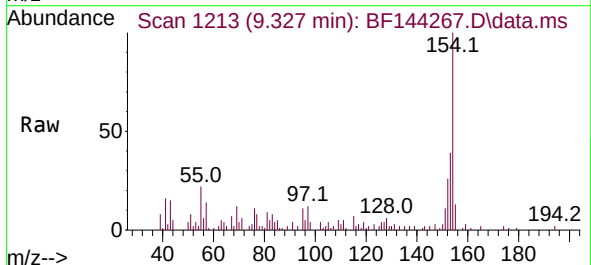
Manual Integrations

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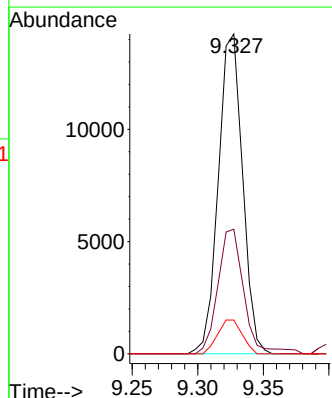
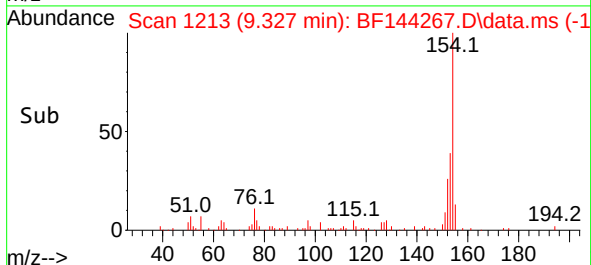
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

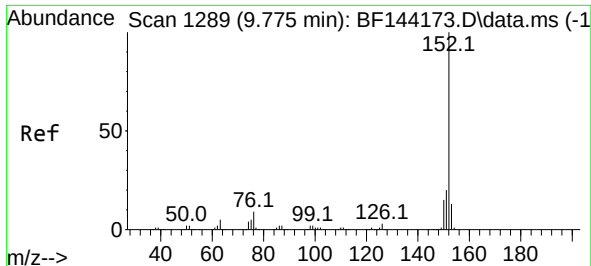


#46
1,1'-Biphenyl
Concen: 3.085 ng
RT: 9.327 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



Tgt Ion:154 Resp: 18344
Ion Ratio Lower Upper
154 100
153 39.0 19.2 59.2
76 10.6 0.0 31.8





#49

Acenaphthylene

Concen: 6.962 ng

RT: 9.769 min Scan# 1288

Delta R.T. -0.006 min

Lab File: BF144267.D

Acq: 17 Nov 2025 14:59

Instrument :

BNA_F

ClientSampleId :

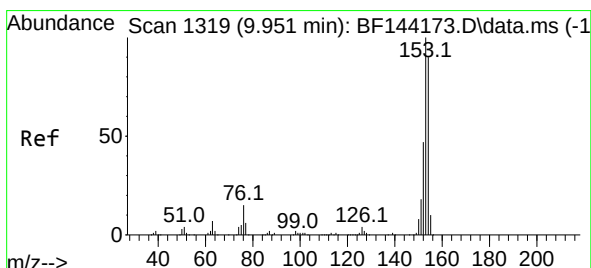
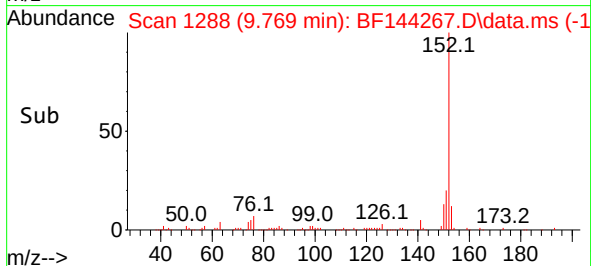
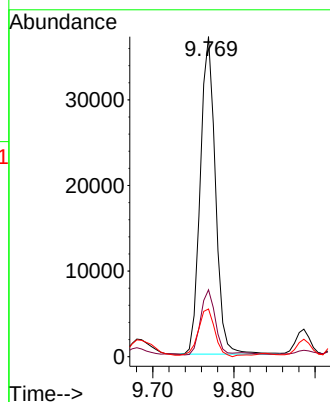
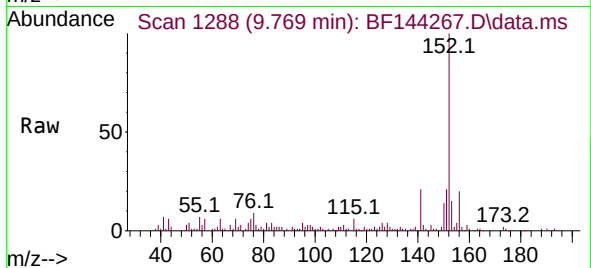
OR-02-111425

Tgt Ion:152	Resp:	48120
Ion Ratio	Lower	Upper
152	100	
151	20.9	15.9 23.9
153	14.9	10.5 15.7

Manual Integrations

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#52

Acenaphthene

Concen: 22.792 ng

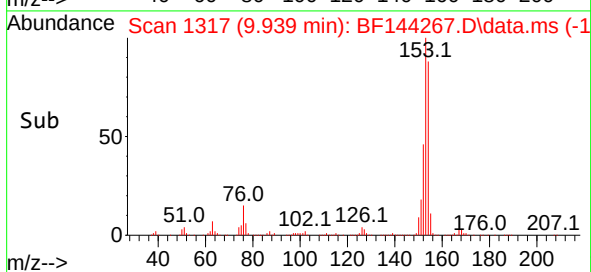
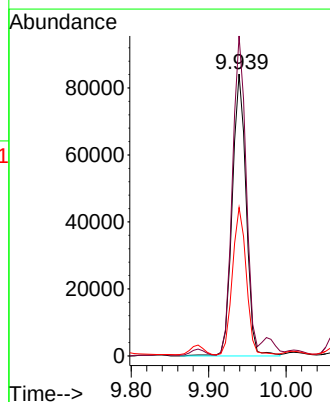
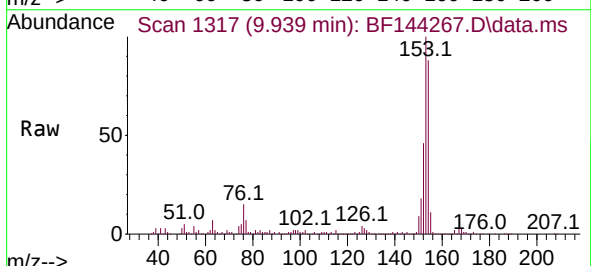
RT: 9.939 min Scan# 1317

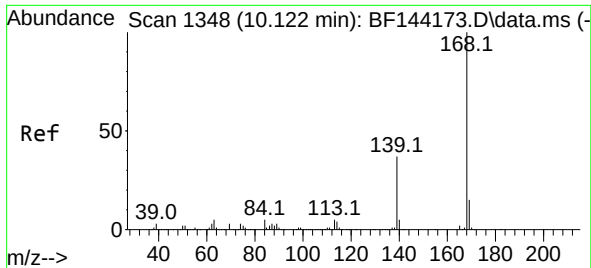
Delta R.T. -0.006 min

Lab File: BF144267.D

Acq: 17 Nov 2025 14:59

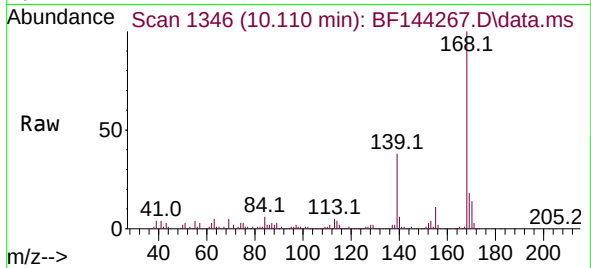
Tgt Ion:154	Resp:	105338
Ion Ratio	Lower	Upper
154	100	
153	113.5	89.0 133.4
152	52.7	42.2 63.4





#55
Dibenzenofuran
Concen: 18.361 ng
RT: 10.110 min Scan# 1348
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

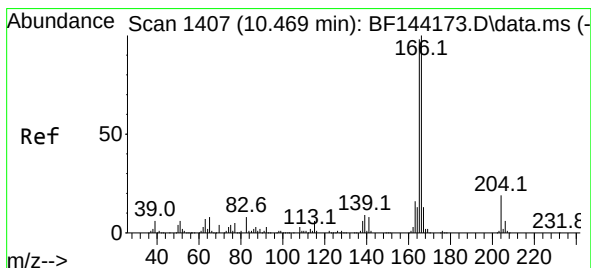
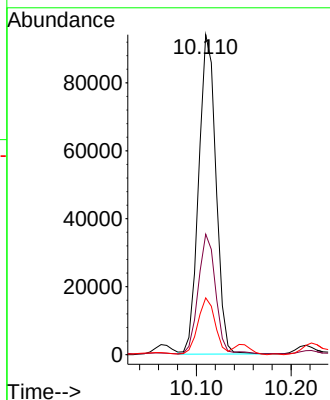
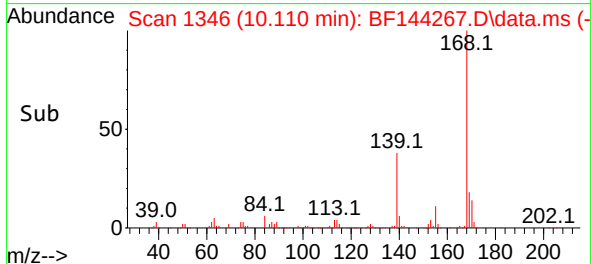
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



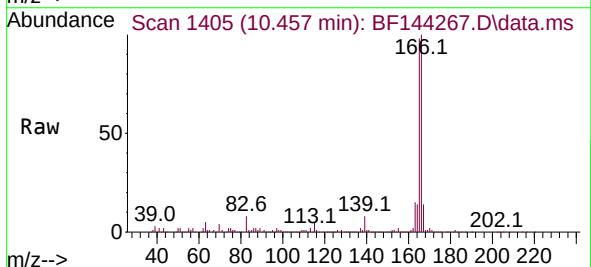
Tgt Ion:168 Resp: 118852
Ion Ratio Lower Upper
168 100
139 37.6 30.2 45.2
169 17.7 12.2 18.4

Manual Integrations
APPROVED

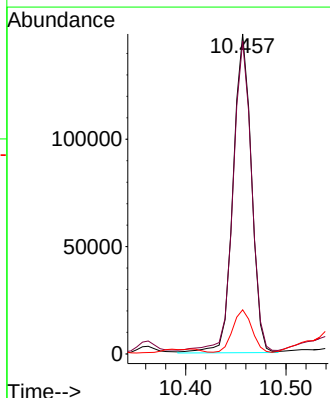
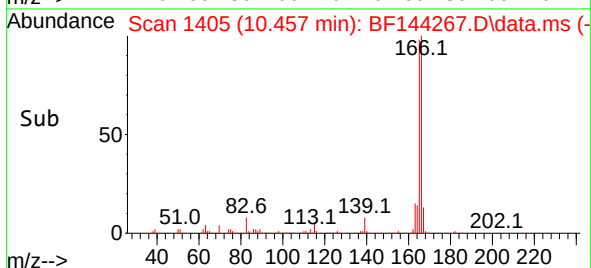
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

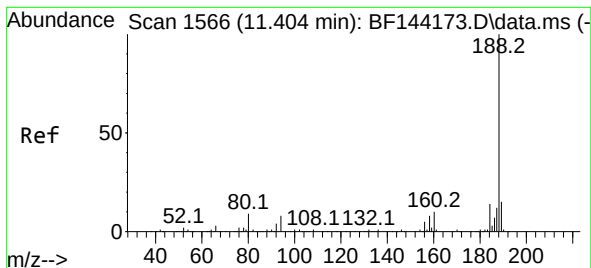


#58
Fluorene
Concen: 38.216 ng
RT: 10.457 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



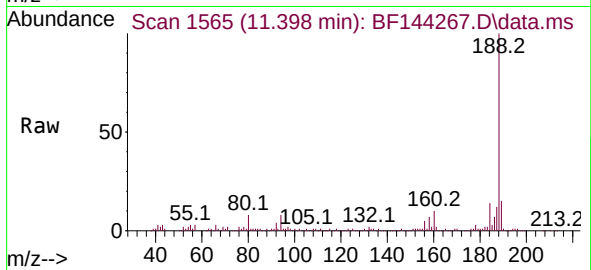
Tgt Ion:166 Resp: 188079
Ion Ratio Lower Upper
166 100
165 97.7 78.6 118.0
167 13.8 10.4 15.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

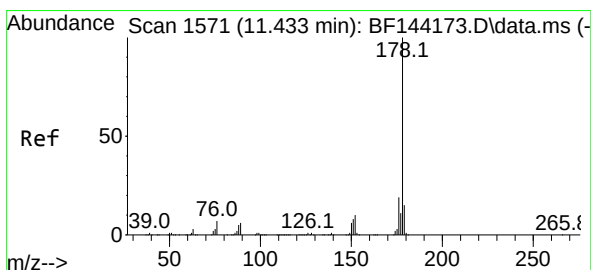
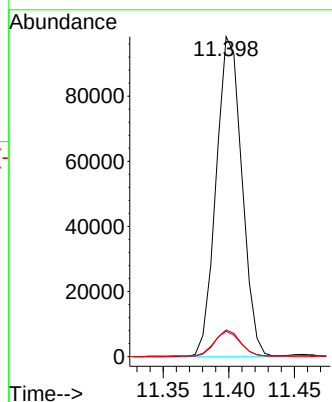
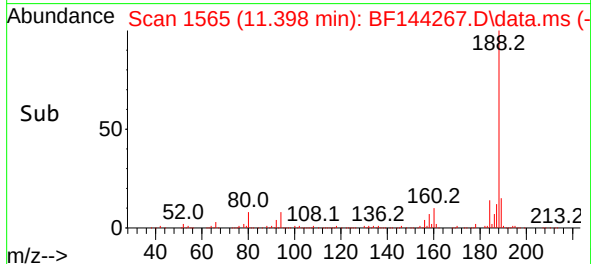
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



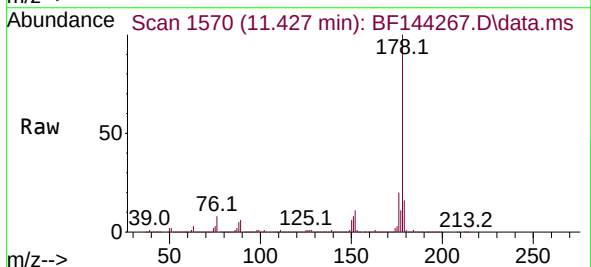
Tgt Ion:188 Resp: 134414
Ion Ratio Lower Upper
188 100
94 8.3 6.2 9.2
80 7.9 6.9 10.3

Manual Integrations
APPROVED

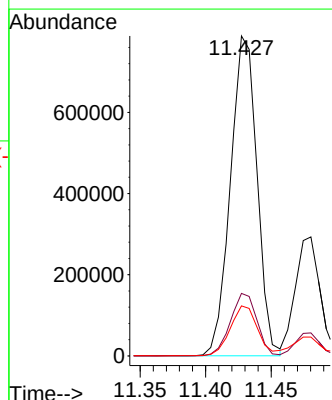
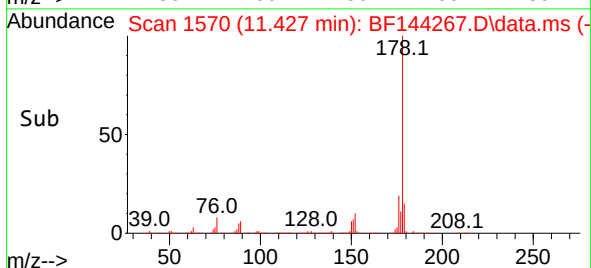
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

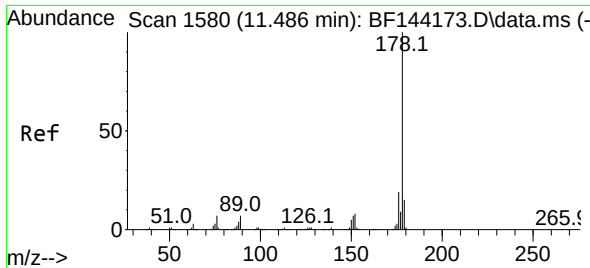


#71
Phenanthrene
Concen: 166.097 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



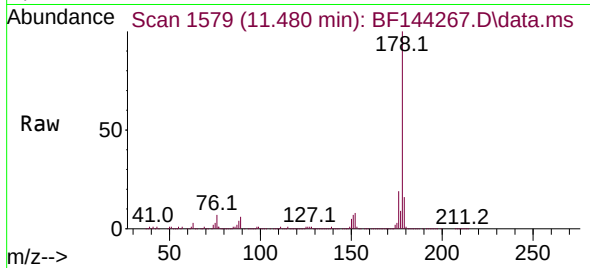
Tgt Ion:178 Resp: 1111569
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 15.6 12.2 18.4





#72
 Anthracene
 Concen: 55.851 ng
 RT: 11.480 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF144267.D
 Acq: 17 Nov 2025 14:59

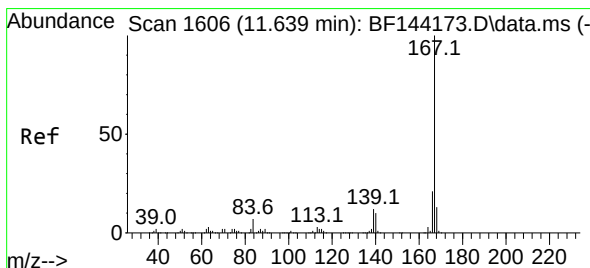
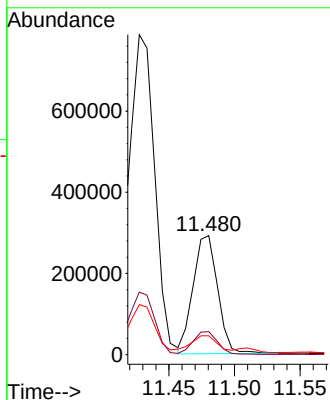
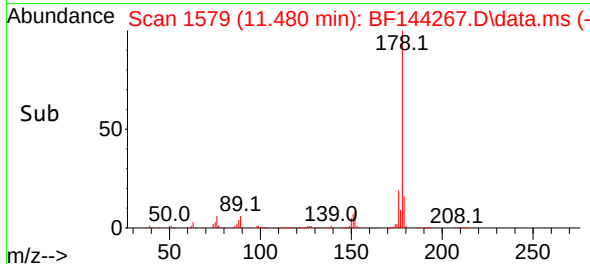
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-111425



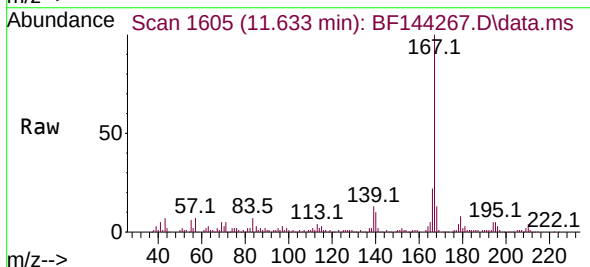
Tgt Ion:178 Resp: 380058
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.3 22.9
 179 15.8 12.0 18.0

Manual Integrations
 APPROVED

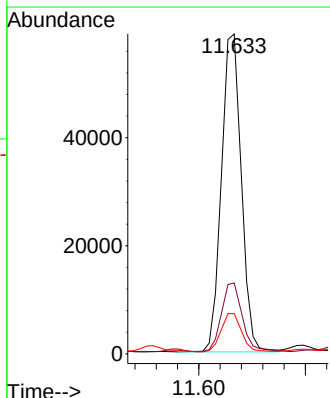
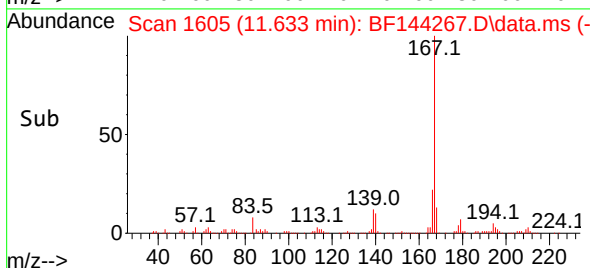
Reviewed By :Jagrut Upadhyay 11/18/2025
 Supervised By :Sohil Jodhani 11/18/2025

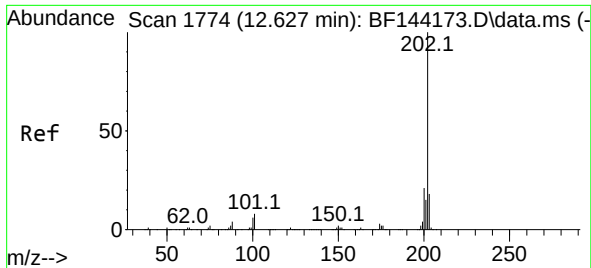


#73
 Carbazole
 Concen: 13.217 ng
 RT: 11.633 min Scan# 1605
 Delta R.T. -0.006 min
 Lab File: BF144267.D
 Acq: 17 Nov 2025 14:59



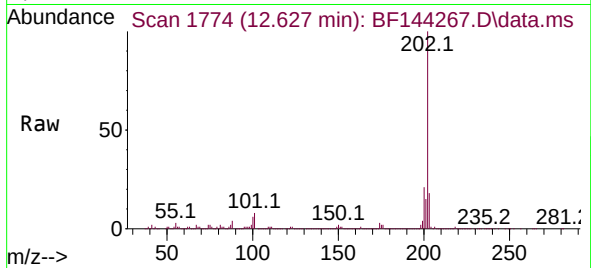
Tgt Ion:167 Resp: 76481
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.2 25.8
 139 12.6 9.9 14.9





#75
Fluoranthene
Concen: 232.142 ng
RT: 12.627 min Scan# 1774
Delta R.T. 0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

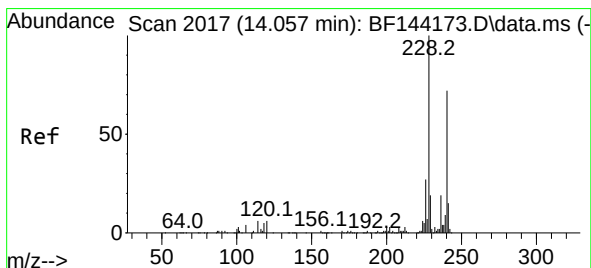
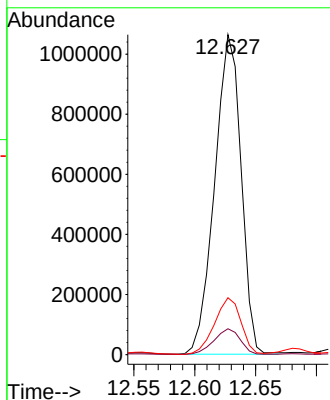
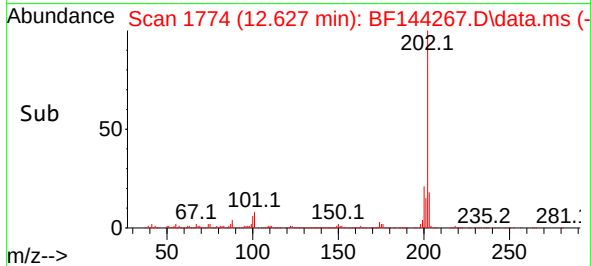
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



Tgt Ion:202 Resp: 1604832
Ion Ratio Lower Upper
202 100
101 8.1 0.0 27.9
203 17.8 0.0 37.5

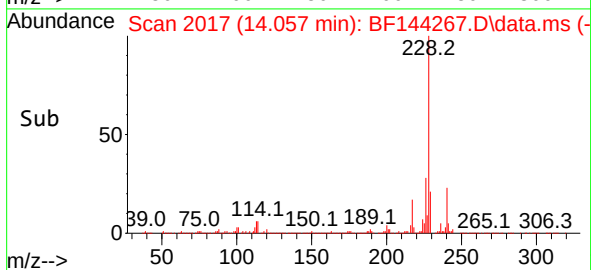
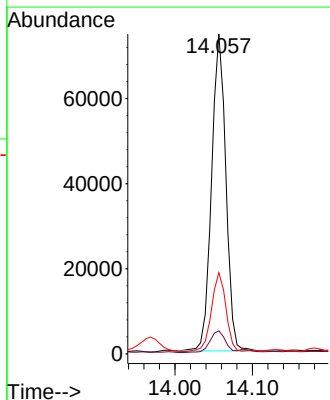
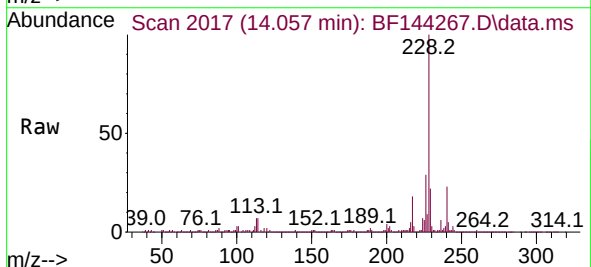
Manual Integrations
APPROVED

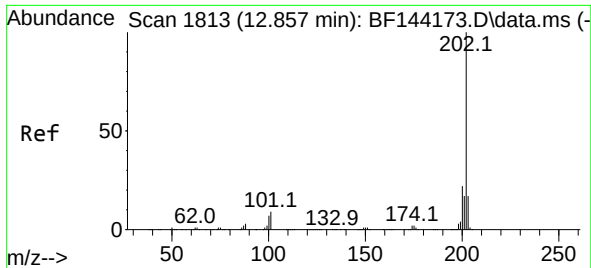
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

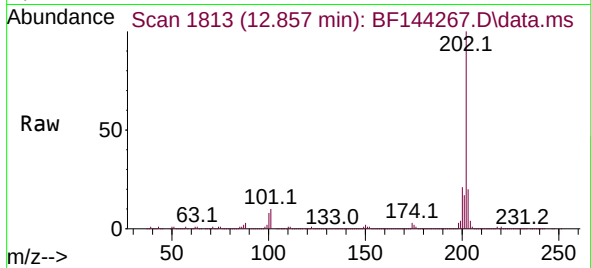
Tgt Ion:240 Resp: 95343
Ion Ratio Lower Upper
240 100
120 7.3 6.6 10.0
236 25.4 21.4 32.2





#78
Pyrene
Concen: 187.772 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

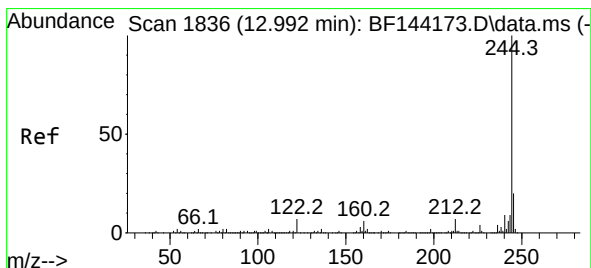
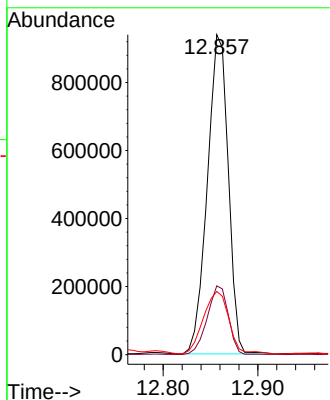
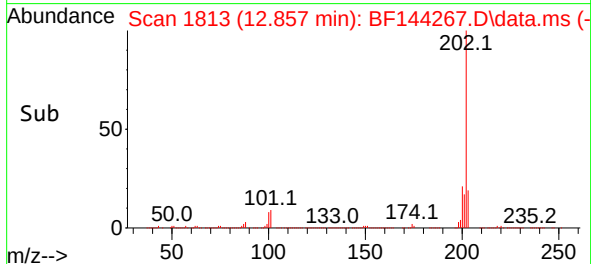
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



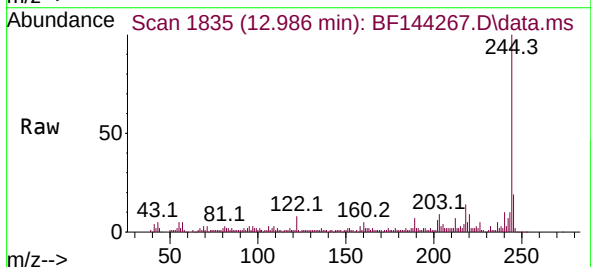
Tgt Ion:202 Resp: 144348
Ion Ratio Lower Upper
202 100
200 21.5 17.2 25.8
203 19.7 13.7 20.5

Manual Integrations
APPROVED

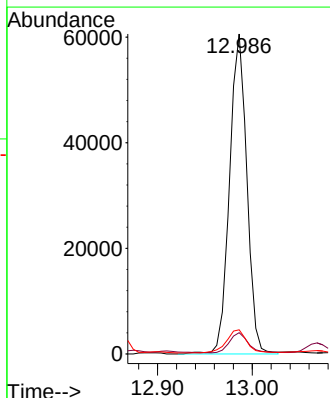
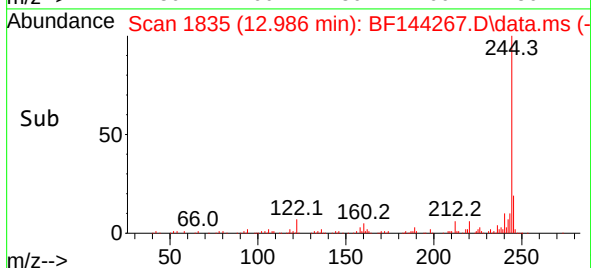
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

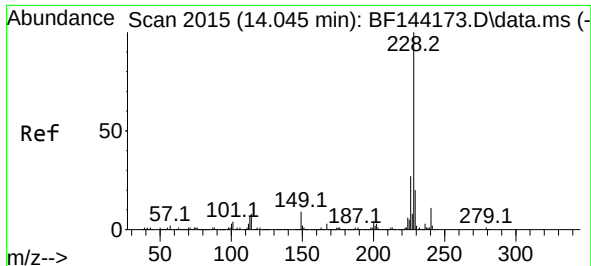


#79
Terphenyl-d14
Concen: 12.861 ng
RT: 12.986 min Scan# 1835
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



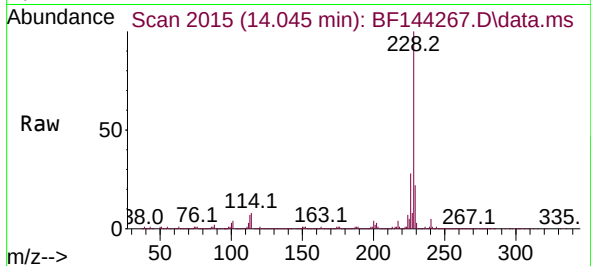
Tgt Ion:244 Resp: 77199
Ion Ratio Lower Upper
244 100
212 6.6 5.3 7.9
122 7.5 5.6 8.4





#81
Benzo(a)anthracene
Concen: 130.464 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

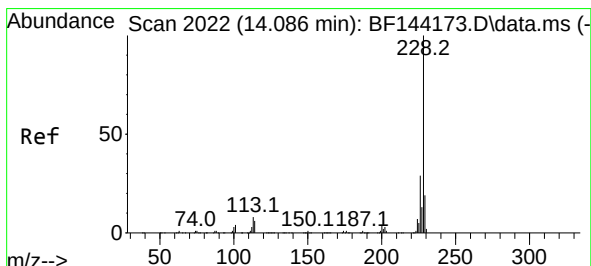
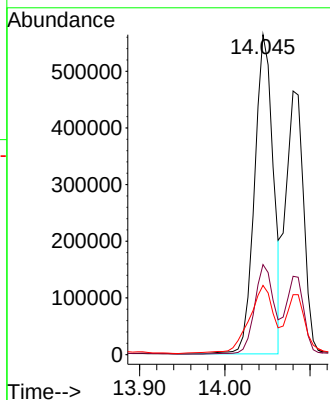
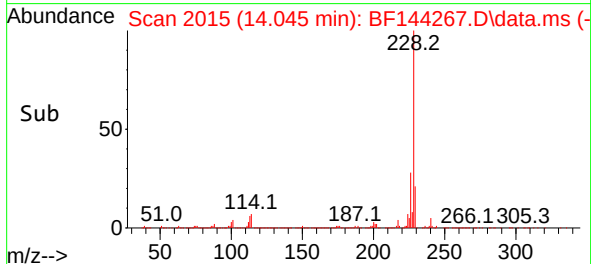
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



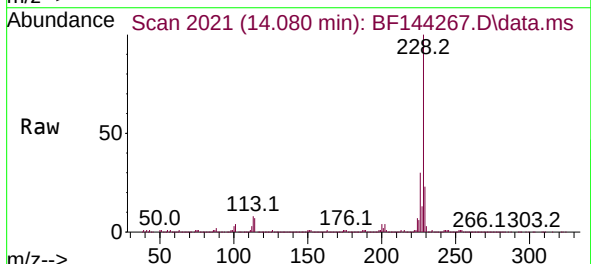
Tgt Ion:228 Resp: 862104
Ion Ratio Lower Upper
228 100
226 28.2 21.8 32.8
229 21.6 15.8 23.6

Manual Integrations
APPROVED

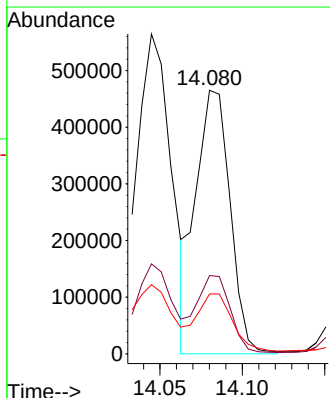
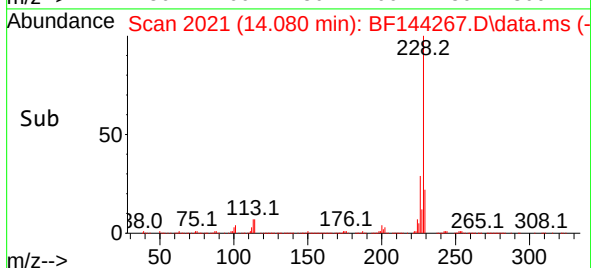
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

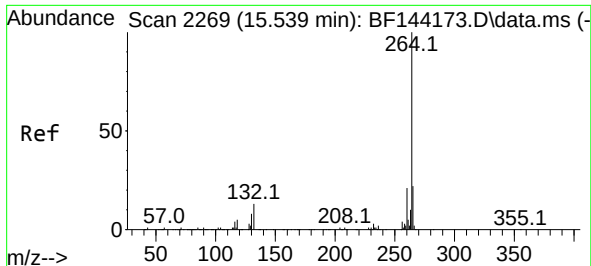


#83
Chrysene
Concen: 110.583 ng m
RT: 14.080 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



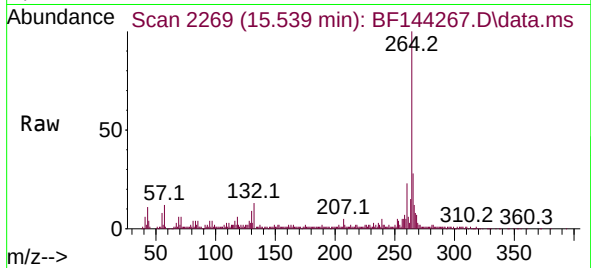
Tgt Ion:228 Resp: 674560
Ion Ratio Lower Upper
228 100
226 29.7 22.9 34.3
229 22.7 15.0 22.6#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

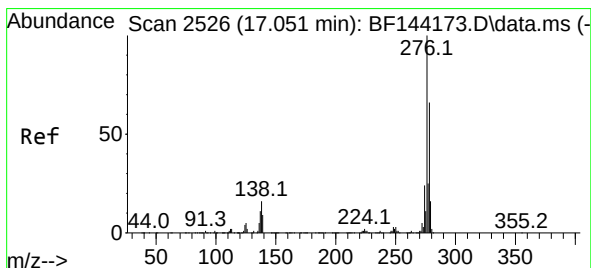
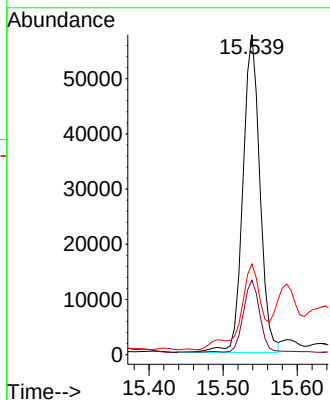
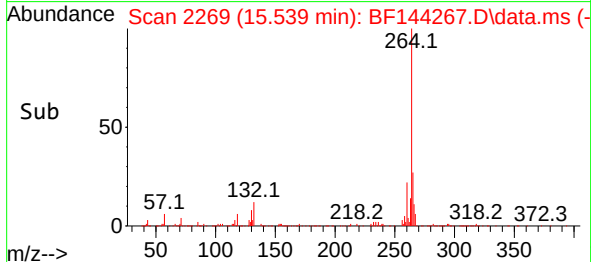
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



Tgt Ion:264 Resp: 91685
Ion Ratio Lower Upper
264 100
260 23.2 17.1 25.7
265 28.3 17.4 26.0

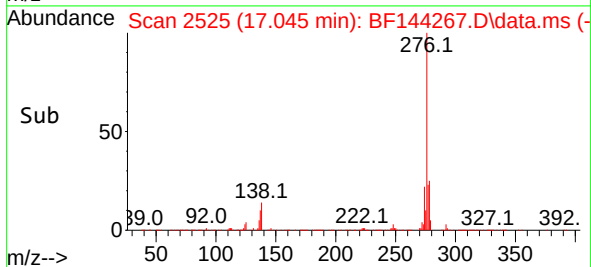
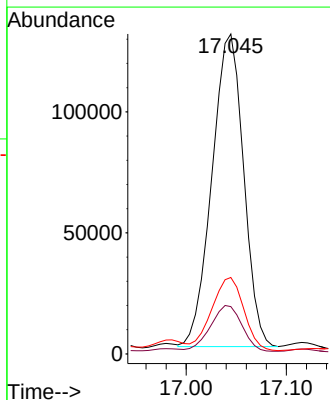
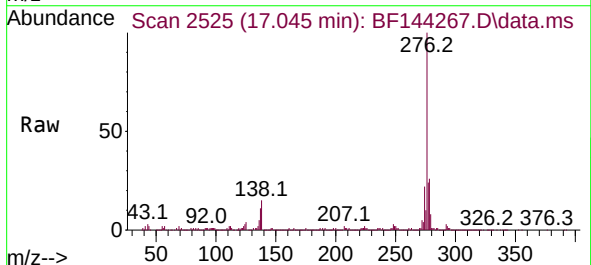
Manual Integrations
APPROVED

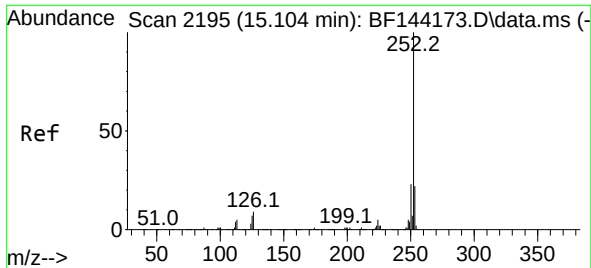
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 43.060 ng
RT: 17.045 min Scan# 2525
Delta R.T. 0.012 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

Tgt Ion:276 Resp: 283403
Ion Ratio Lower Upper
276 100
138 14.9 13.9 20.9
277 23.7 19.8 29.6





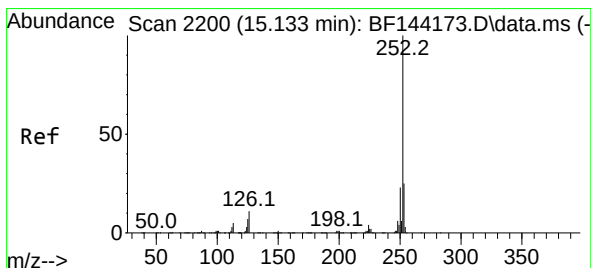
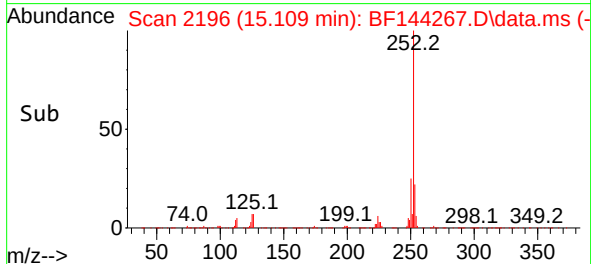
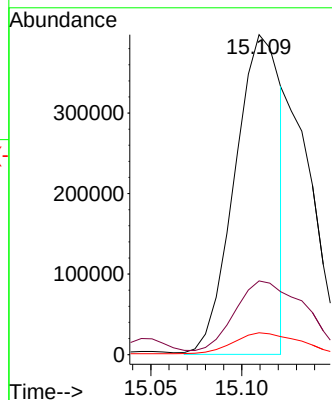
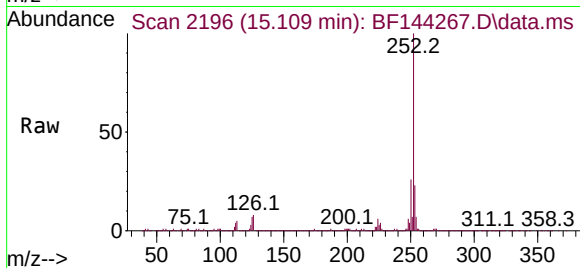
#88
Benzo(b)fluoranthene
Concen: 132.905 ng m
RT: 15.109 min Scan# 2195
Delta R.T. 0.012 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

Instrument :
BNA_F
ClientSampleId :
OR-02-111425

Tgt Ion:252 Resp: 692763
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 6.8 5.3 7.9

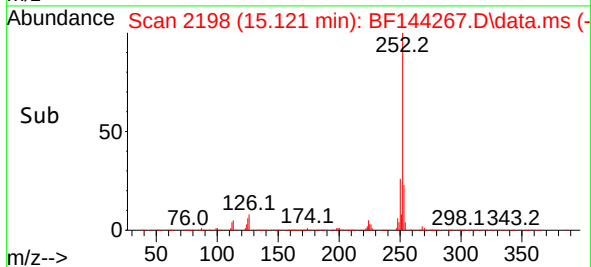
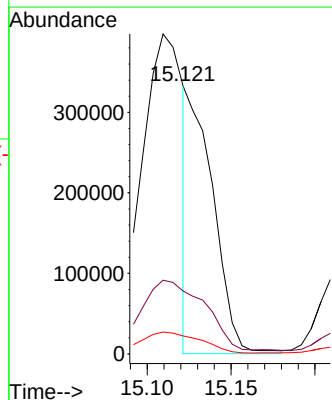
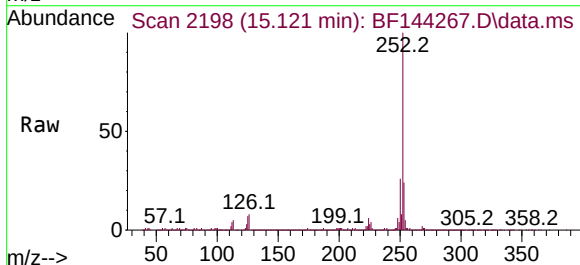
Manual Integrations
APPROVED

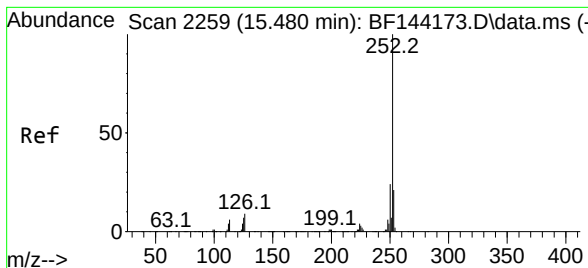
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#89
Benzo(k)fluoranthene
Concen: 69.732 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

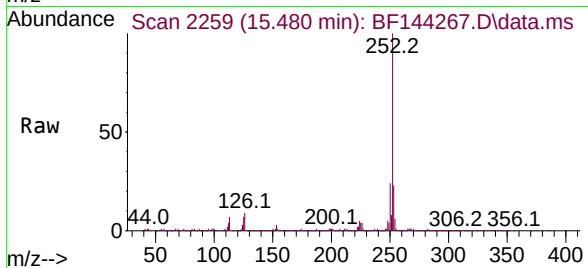
Tgt Ion:252 Resp: 340212
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 6.7 5.4 8.2





#90
Benzo(a)pyrene
Concen: 114.015 ng
RT: 15.480 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59

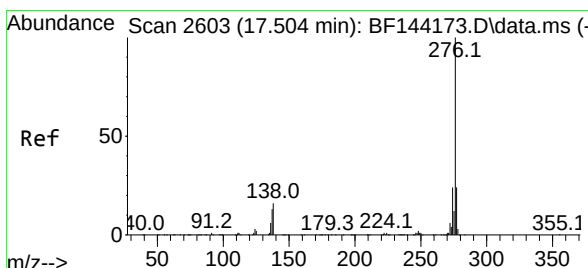
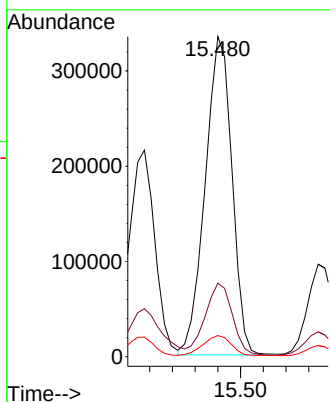
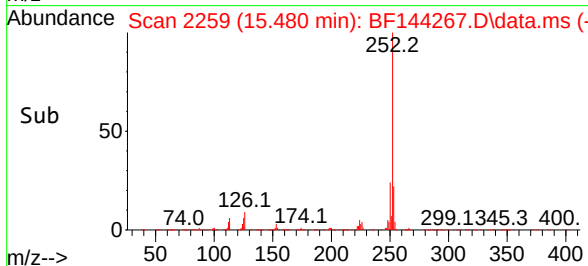
Instrument :
BNA_F
ClientSampleId :
OR-02-111425



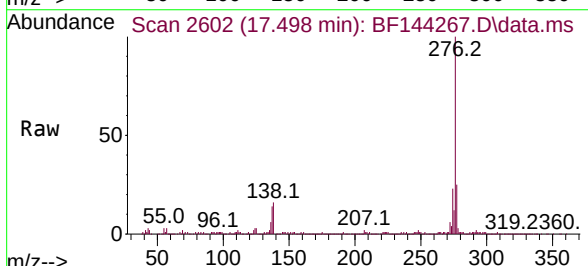
Tgt Ion:252 Resp: 548264
Ion Ratio Lower Upper
252 100
253 22.9 16.7 25.1
125 6.6 5.7 8.5

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#92
Benzo(g,h,i)perylene
Concen: 50.335 ng
RT: 17.498 min Scan# 2602
Delta R.T. 0.006 min
Lab File: BF144267.D
Acq: 17 Nov 2025 14:59



Tgt Ion:276 Resp: 262729
Ion Ratio Lower Upper
276 100
277 24.8 19.0 28.4
138 16.4 12.9 19.3

