

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
 Data File : BF144424.D
 Acq On : 03 Dec 2025 17:34
 Operator : RC/JU
 Sample : Q3753-04DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002DL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 03 17:54:47 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	48468	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	163183	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	63000	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	83173	20.000	ng	# 0.01
76) Chrysene-d12	14.057	240	122831	20.000	ng	# 0.00
86) Perylene-d12	15.533	264	135877	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	112428	36.299	ng	0.00
7) Phenol-d6	6.492	99	126088	35.928	ng	0.00
23) Nitrobenzene-d5	7.422	82	72930	25.812	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	31698	40.095	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	146353	34.310	ng	-0.01
79) Terphenyl-d14	12.998	244	142325	18.405	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.439	178	133301	32.190	ng	# 86
72) Anthracene	11.492	178	22658	5.381	ng	# 34
75) Fluoranthene	12.639	202	217506	50.846	ng	95
78) Pyrene	12.868	202	187997m	18.982	ng	
81) Benzo(a)anthracene	14.045	228	103396	12.146	ng	97
83) Chrysene	14.080	228	104322m	13.275	ng	
87) Indeno(1,2,3-cd)pyrene	17.027	276	31917	3.272	ng	98
88) Benzo(b)fluoranthene	15.098	252	132523m	17.155	ng	
89) Benzo(k)fluoranthene	15.115	252	42566m	5.887	ng	
90) Benzo(a)pyrene	15.468	252	63733	8.943	ng	# 93
92) Benzo(g,h,i)perylene	17.480	276	30189	3.903	ng	93

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

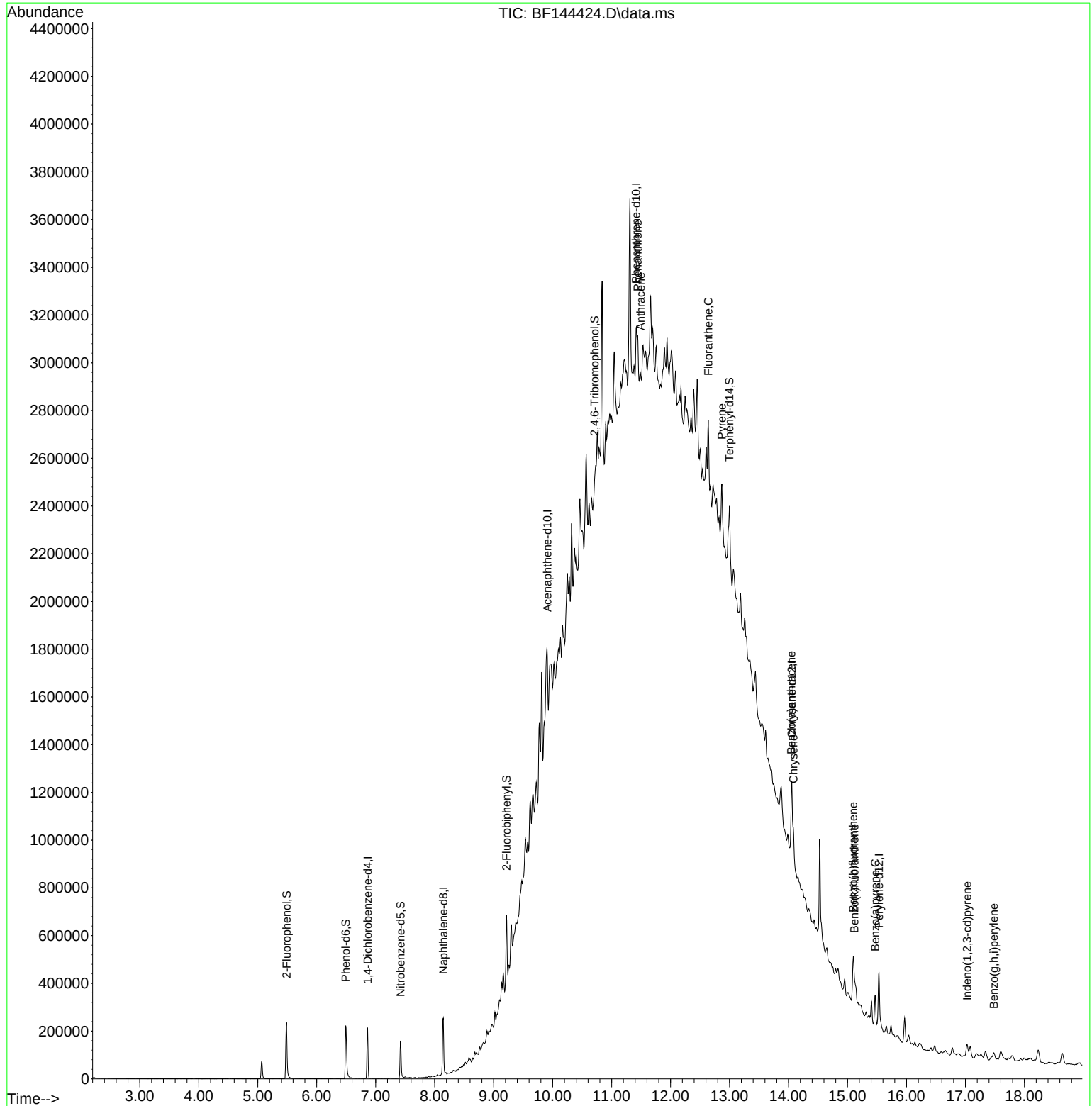
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
Data File : BF144424.D
Acq On : 03 Dec 2025 17:34
Operator : RC/JU
Sample : Q3753-04DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

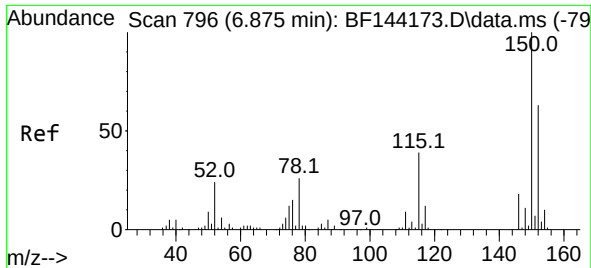
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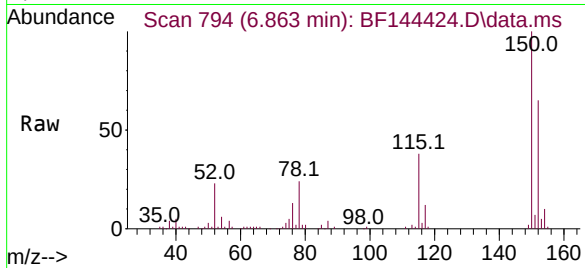
Quant Time: Dec 03 17:54:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34

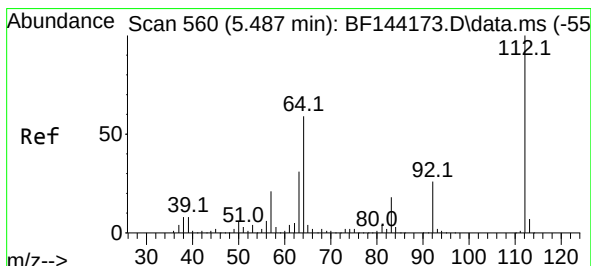
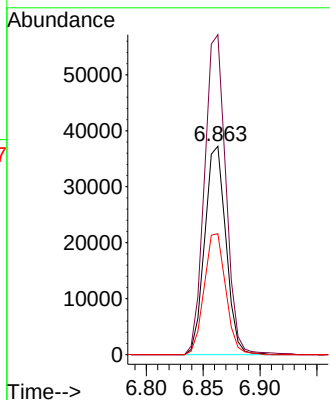
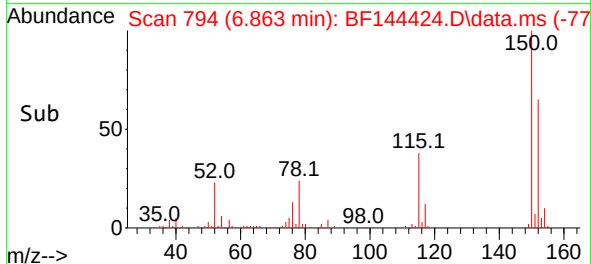
Instrument :
BNA_F
ClientSampleId :
AR520-0002DL



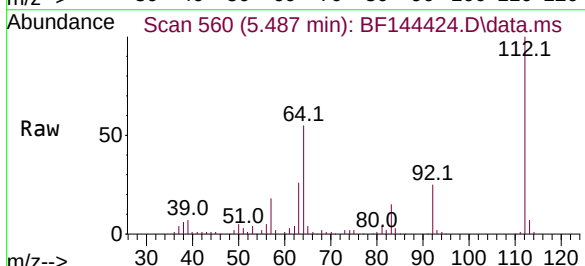
Tgt Ion:152 Resp: 48468
Ion Ratio Lower Upper
152 100
150 153.5 127.4 191.0
115 58.0 49.5 74.3

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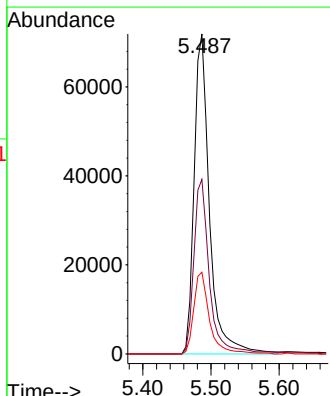
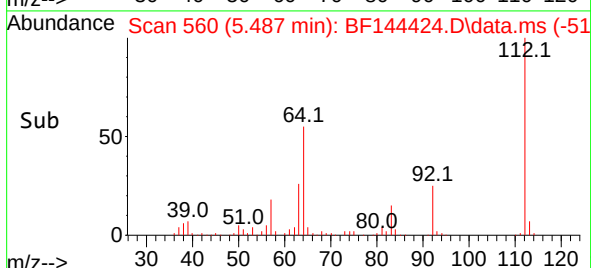
Reviewed By :Jagrut Upadhyay 12/04/2025
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#5
2-Fluorophenol
Concen: 36.299 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34



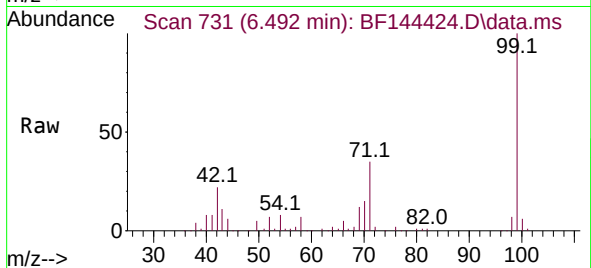
Tgt Ion:112 Resp: 112428
Ion Ratio Lower Upper
112 100
64 54.5 47.2 70.8
63 25.5 24.4 36.6





#7
Phenol-d6
Concen: 35.928 ng
RT: 6.492 min Scan# 731
Delta R.T. -0.006 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34

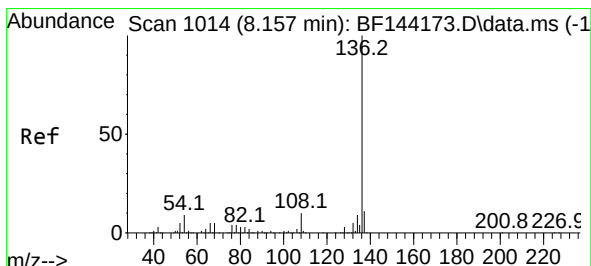
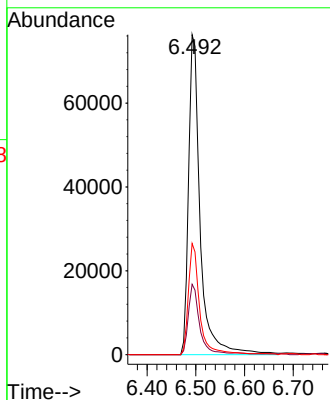
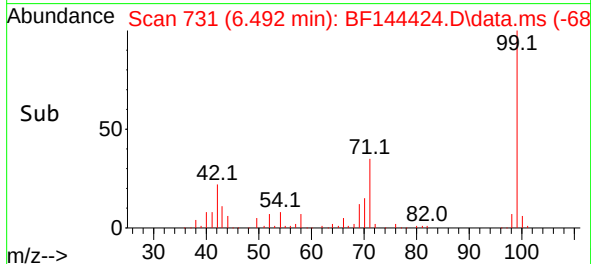
Instrument :
BNA_F
ClientSampleId :
AR520-0002DL



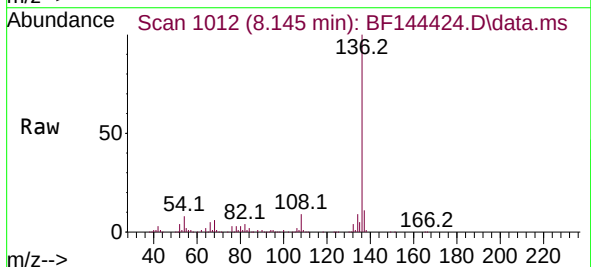
Tgt Ion: 99 Resp: 126088
Ion Ratio Lower Upper
99 100
42 22.0 20.9 31.3
71 34.8 31.4 47.2

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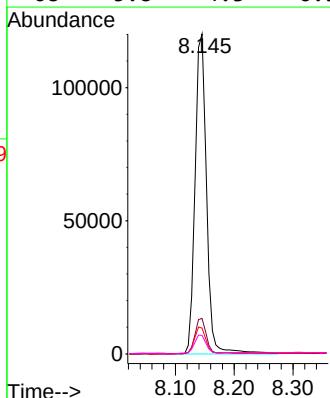
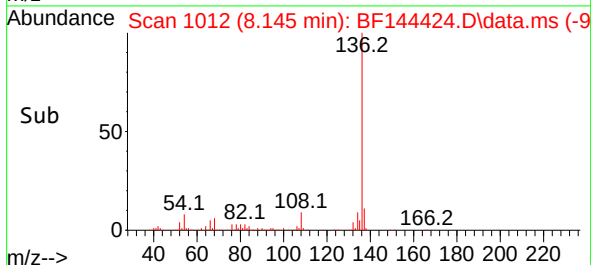
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

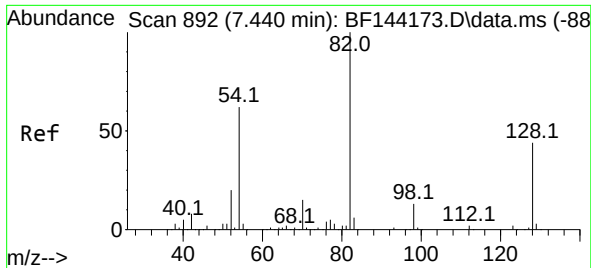


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34



Tgt Ion:136 Resp: 163183
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.1 7.0 10.6
68 5.8 4.3 6.5





#23

Nitrobenzene-d5

Concen: 25.812 ng

RT: 7.422 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Instrument :

BNA_F

ClientSampleId :

AR520-0002DL

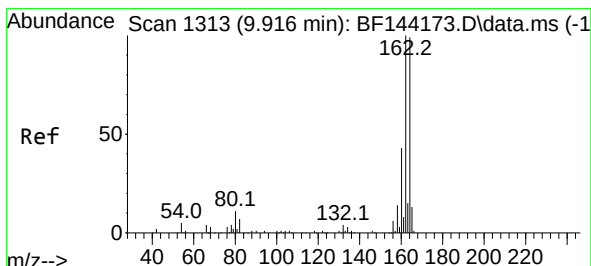
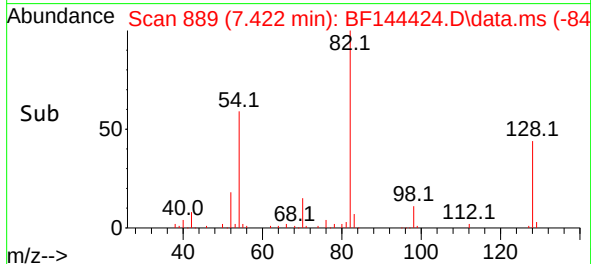
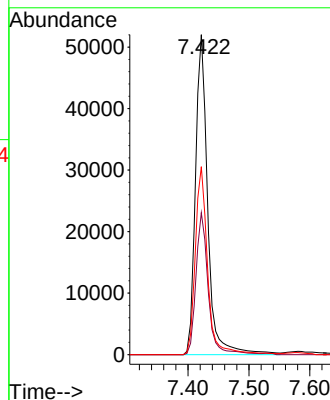
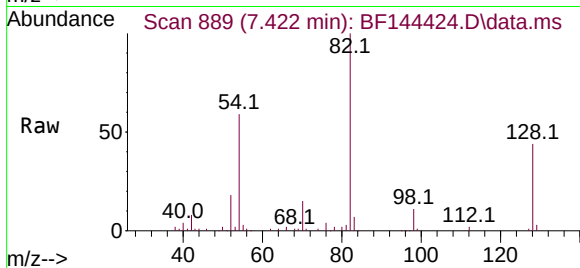
Tgt Ion: 82 Resp: 72936

Ion	Ratio	Lower	Upper
82	100		
128	44.3	34.7	52.1
54	58.7	49.5	74.3

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1312

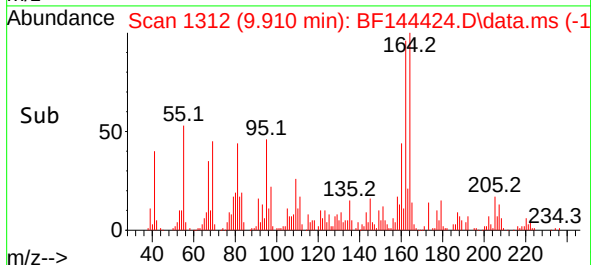
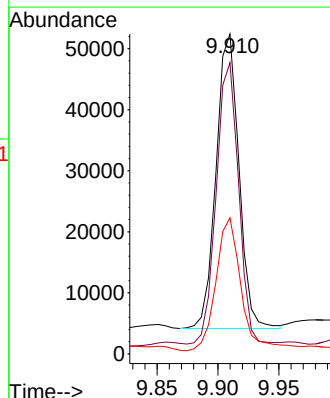
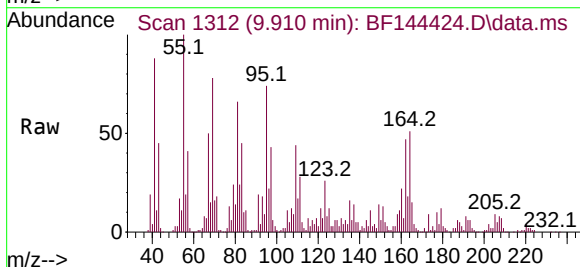
Delta R.T. -0.006 min

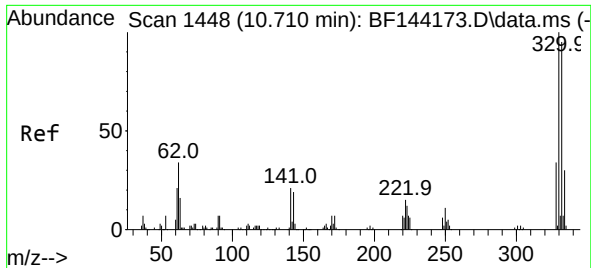
Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Tgt Ion:164 Resp: 63000

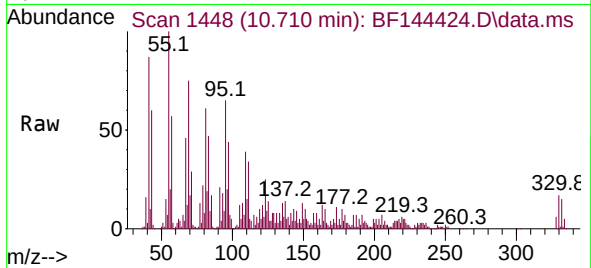
Ion	Ratio	Lower	Upper
164	100		
162	91.0	81.1	121.7
160	42.5	34.5	51.7





#42
2,4,6-Tribromophenol
Concen: 40.095 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.006 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34

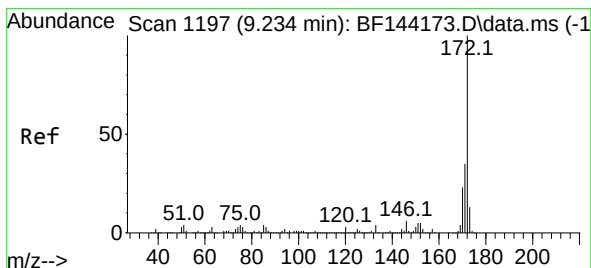
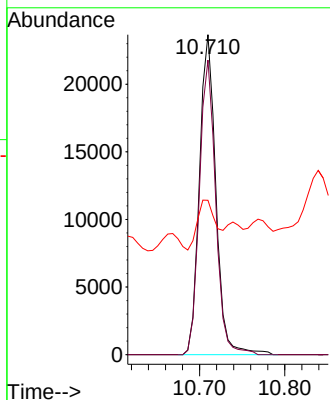
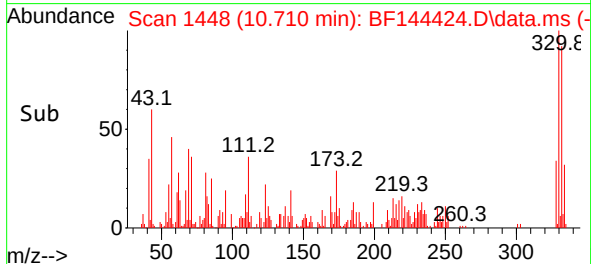
Instrument :
BNA_F
ClientSampleId :
AR520-0002DL



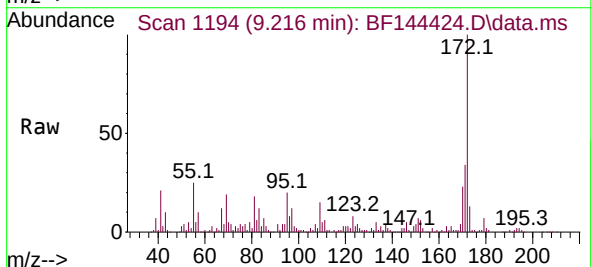
Tgt Ion: 330 Resp: 31698
Ion Ratio Lower Upper
330 100
332 91.1 76.7 115.1
141 17.7 17.8 26.8

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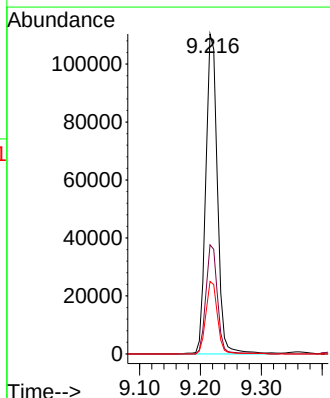
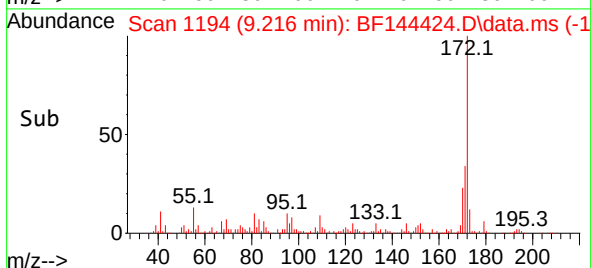
Reviewed By : Jagrut Upadhyay 12/04/2025
Supervised By : mohammad ahmed 12/09/2025

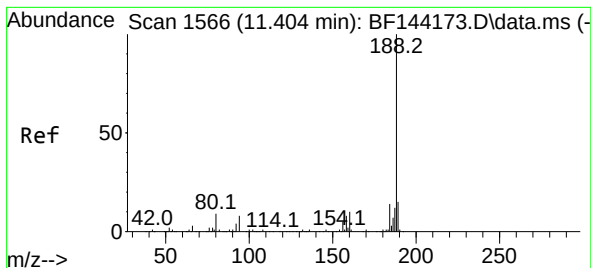


#45
2-Fluorobiphenyl
Concen: 34.310 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34



Tgt Ion: 172 Resp: 146353
Ion Ratio Lower Upper
172 100
171 34.1 28.1 42.1
170 22.6 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1567

Delta R.T. 0.012 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Instrument :

BNA_F

ClientSampleId :

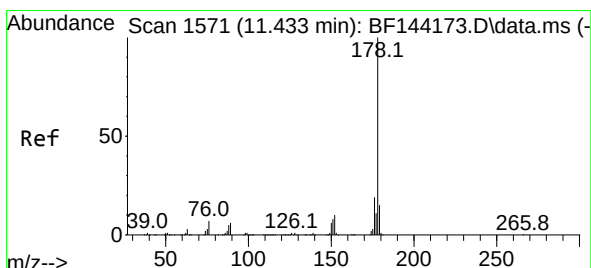
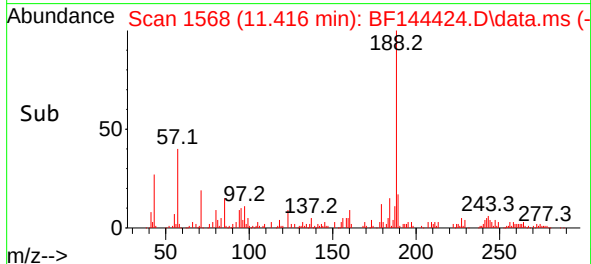
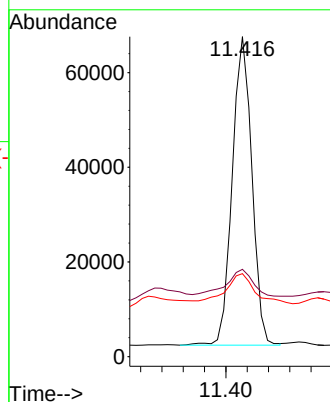
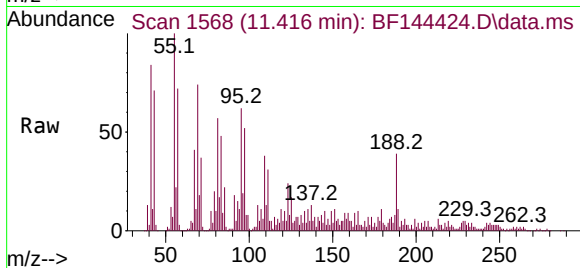
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Tgt Ion:188	Resp:	83173
Ion Ratio	Lower	Upper
188	100	
94	27.3	6.2 9.2
80	25.9	6.9 10.3

Manual Integrations

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#71

Phenanthrene

Concen: 32.190 ng

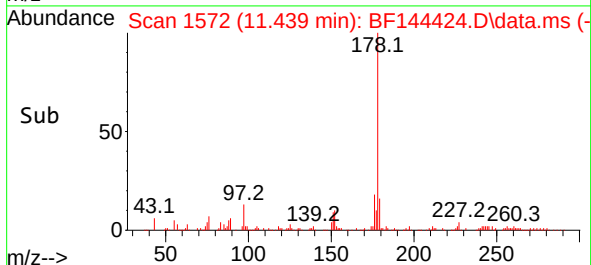
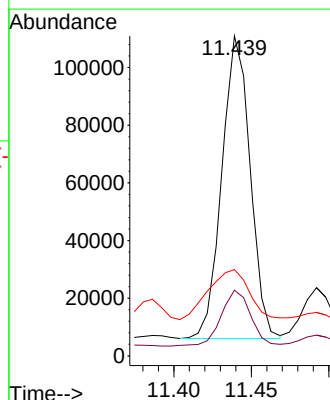
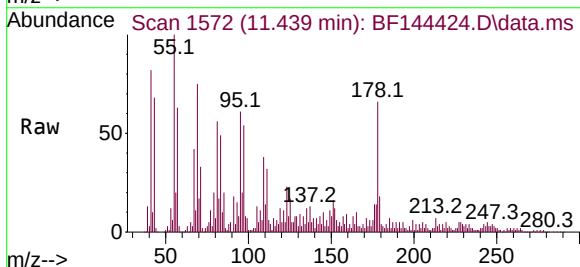
RT: 11.439 min Scan# 1572

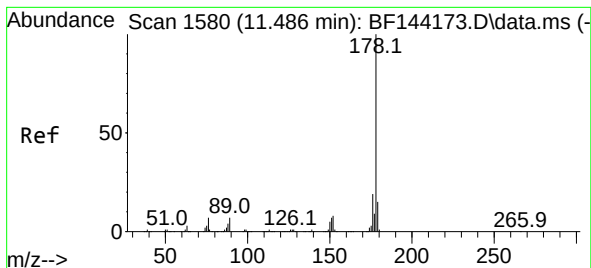
Delta R.T. 0.012 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Tgt Ion:178	Resp:	133301
Ion Ratio	Lower	Upper
178	100	
176	20.5	15.5 23.3
179	27.0	12.2 18.4





#72

Anthracene

Concen: 5.381 ng

RT: 11.492 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Instrument :

BNA_F

ClientSampleId :

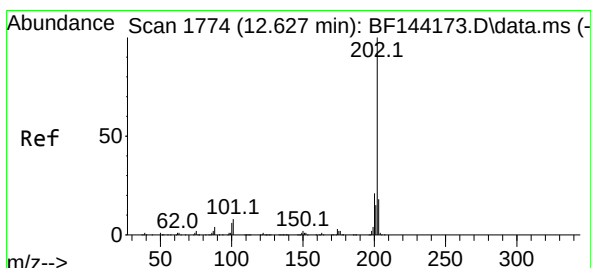
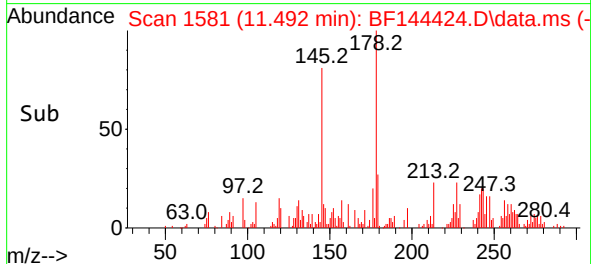
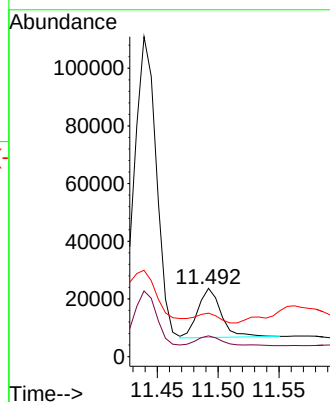
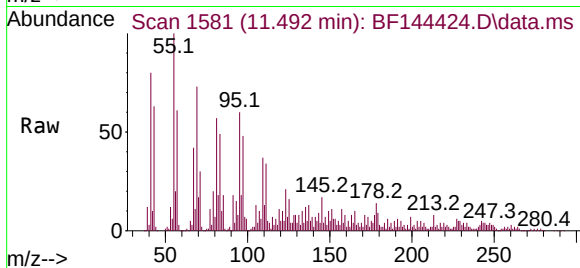
AR520-0002DL

Tgt Ion:178	Resp:	22658
Ion Ratio	Lower	Upper
178	100	
176	30.5	15.3 22.9
179	63.7	12.0 18.0

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#75

Fluoranthene

Concen: 50.846 ng

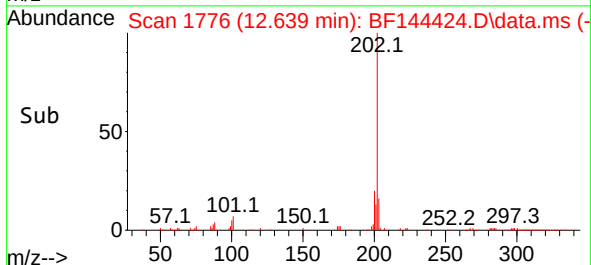
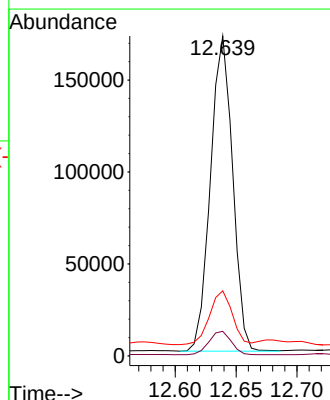
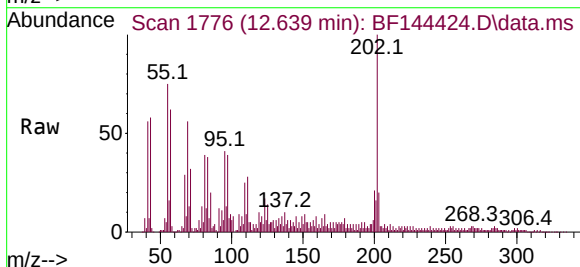
RT: 12.639 min Scan# 1776

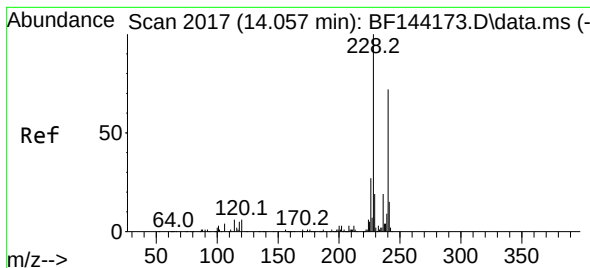
Delta R.T. 0.017 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

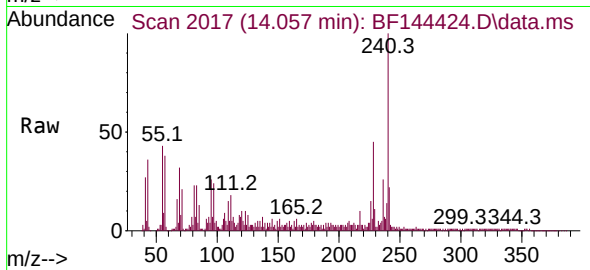
Tgt Ion:202	Resp:	217506
Ion Ratio	Lower	Upper
202	100	
101	7.7	0.0 27.9
203	20.4	0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34

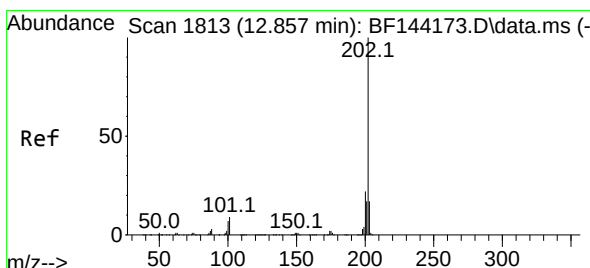
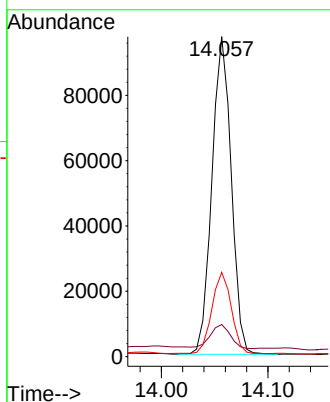
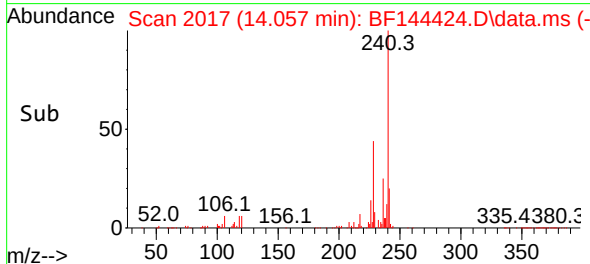
Instrument :
BNA_F
ClientSampleId :
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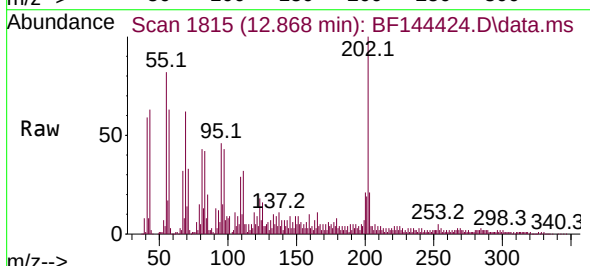
Tgt Ion:240 Resp: 122831
Ion Ratio Lower Upper
240 100
120 10.0 6.6 10.0
236 26.3 21.4 32.2

Manual Integrations
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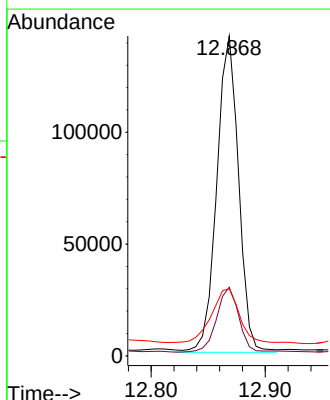
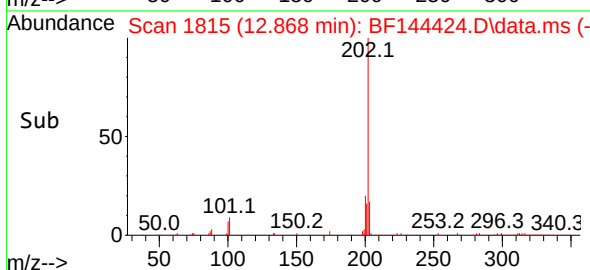
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

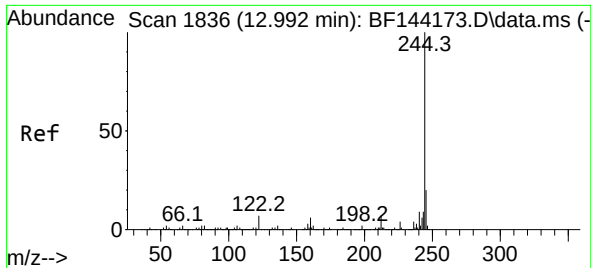


#78
Pyrene
Concen: 18.982 ng m
RT: 12.868 min Scan# 1815
Delta R.T. 0.017 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34



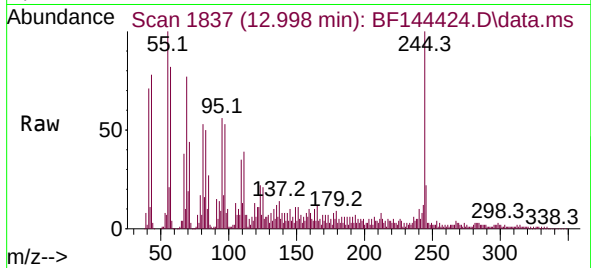
Tgt Ion:202 Resp: 187997
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 21.0 13.7 20.5





#79
 Terphenyl-d14
 Concen: 18.405 ng
 RT: 12.998 min Scan# 1837
 Delta R.T. 0.006 min
 Lab File: BF144424.D
 Acq: 03 Dec 2025 17:34

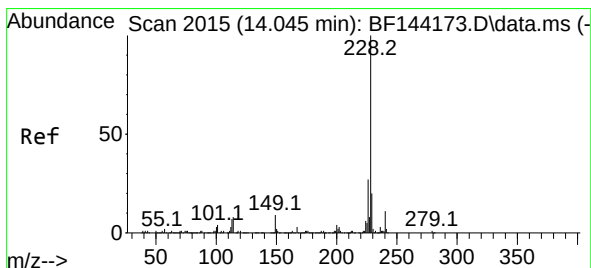
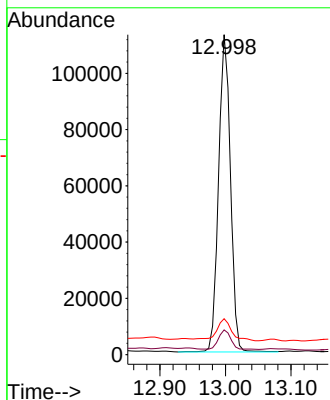
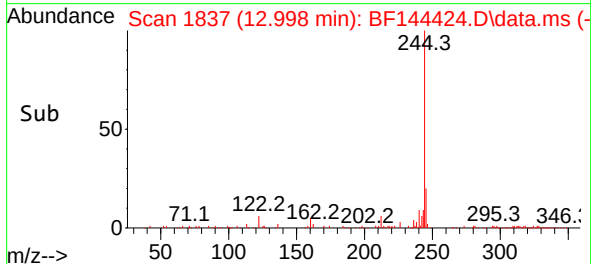
Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002DL



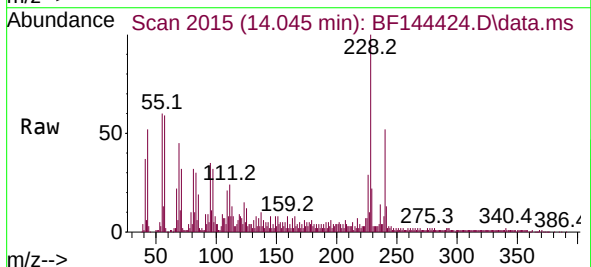
Tgt Ion:244 Resp: 142325
 Ion Ratio Lower Upper
 244 100
 212 7.7 5.3 7.9
 122 11.2 5.6 8.4

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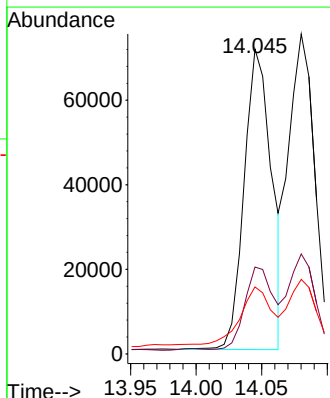
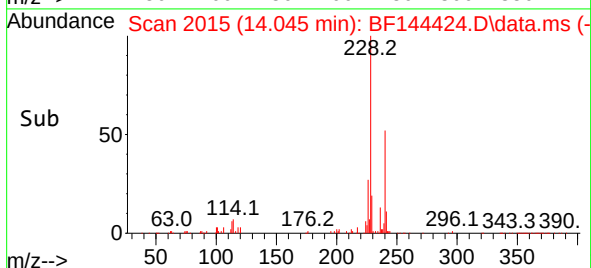
Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

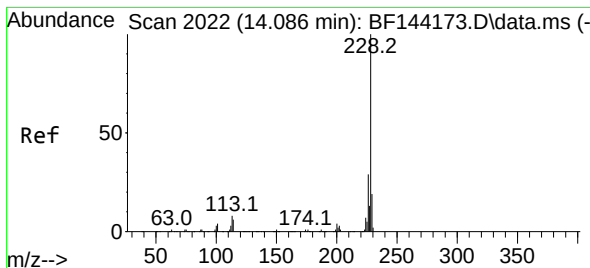


#81
 Benzo(a)anthracene
 Concen: 12.146 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. -0.000 min
 Lab File: BF144424.D
 Acq: 03 Dec 2025 17:34



Tgt Ion:228 Resp: 103396
 Ion Ratio Lower Upper
 228 100
 226 28.5 21.8 32.8
 229 22.0 15.8 23.6





#83

Chrysene

Concen: 13.275 ng m

RT: 14.080 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Instrument :

BNA_F

ClientSampleId :

AR520-0002DL

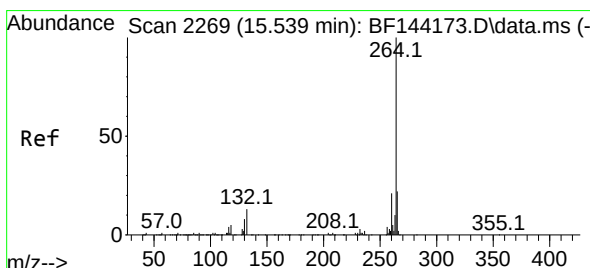
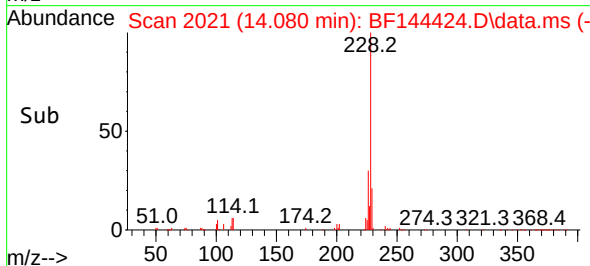
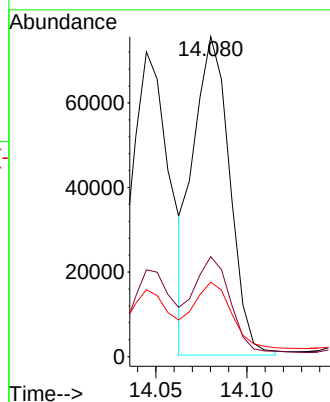
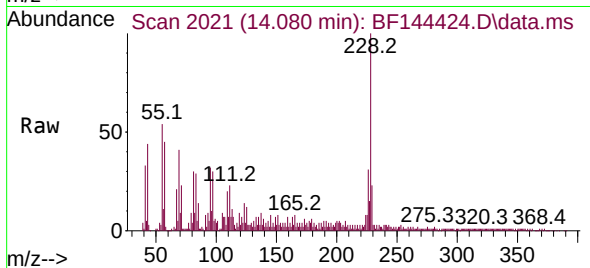
Tgt Ion:228 Resp: 104322

Ion	Ratio	Lower	Upper
228	100		
226	31.2	22.9	34.3
229	23.3	15.0	22.6

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Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2268

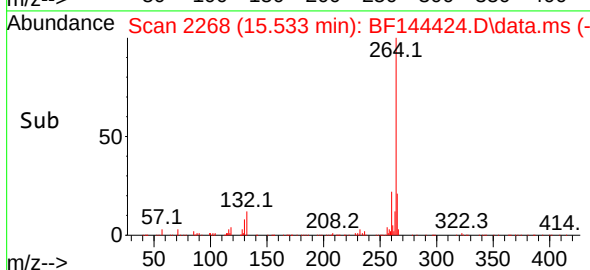
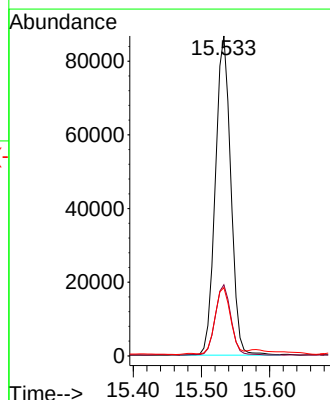
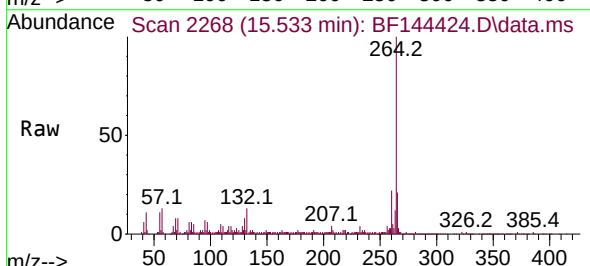
Delta R.T. -0.006 min

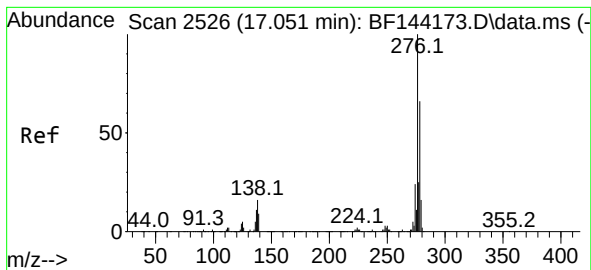
Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Tgt Ion:264 Resp: 135877

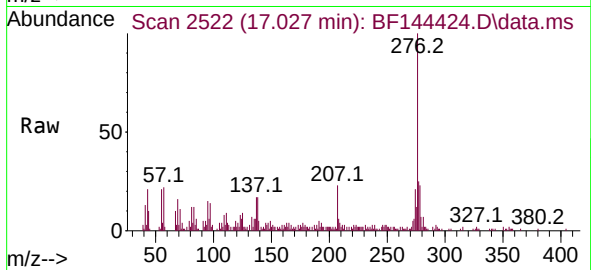
Ion	Ratio	Lower	Upper
264	100		
260	22.2	17.1	25.7
265	21.3	17.4	26.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 3.272 ng
RT: 17.027 min Scan# 2191
Delta R.T. -0.006 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34

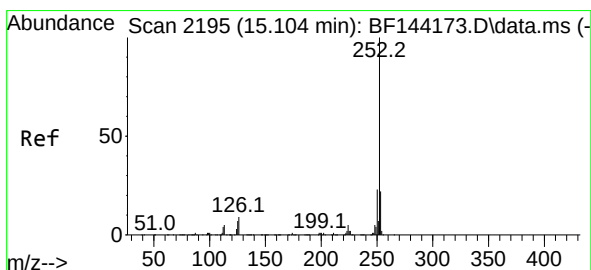
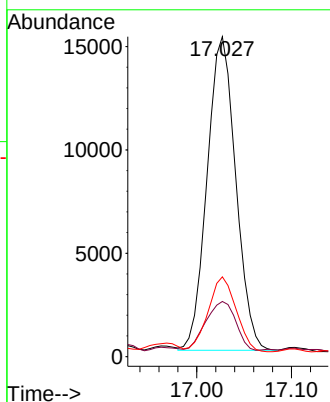
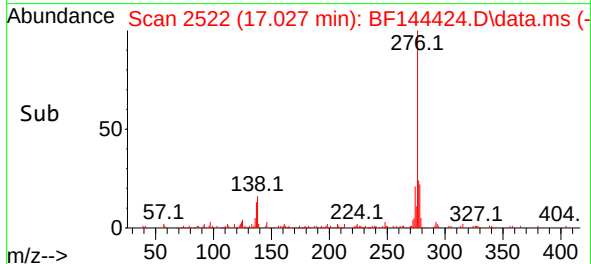
Instrument :
BNA_F
ClientSampleId :
AR520-0002DL



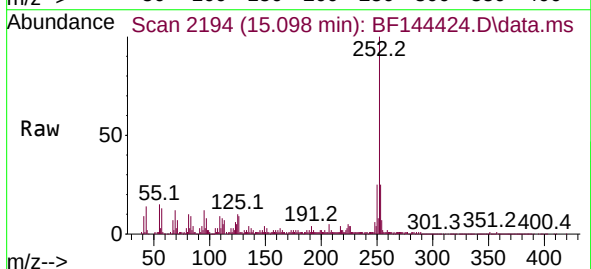
Tgt Ion:276 Resp: 3191
Ion Ratio Lower Upper
276 100
138 16.6 13.9 20.9
277 23.5 19.8 29.6

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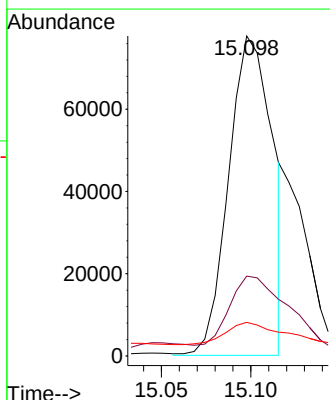
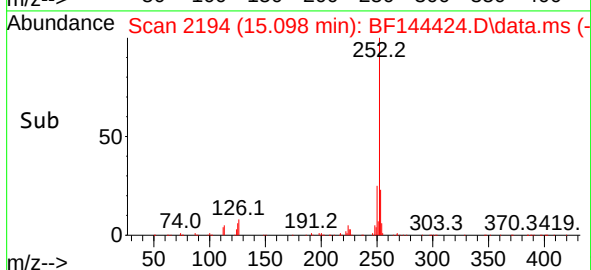
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

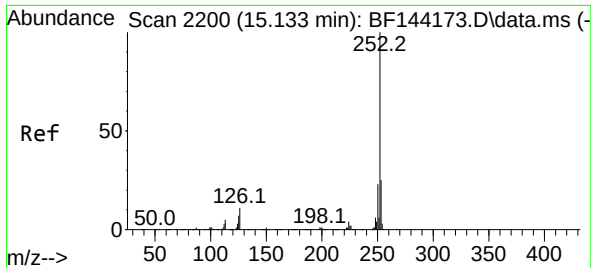


#88
Benzo(b)fluoranthene
Concen: 17.155 ng m
RT: 15.098 min Scan# 2194
Delta R.T. -0.000 min
Lab File: BF144424.D
Acq: 03 Dec 2025 17:34



Tgt Ion:252 Resp: 132523
Ion Ratio Lower Upper
252 100
253 24.9 17.4 26.2
125 10.5 5.3 7.9#





#89

Benzo(k)fluoranthene

Concen: 5.887 ng m

RT: 15.115 min Scan# 2197

Delta R.T. -0.012 min

Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Instrument :

BNA_F

ClientSampleId :

AR520-0002DL

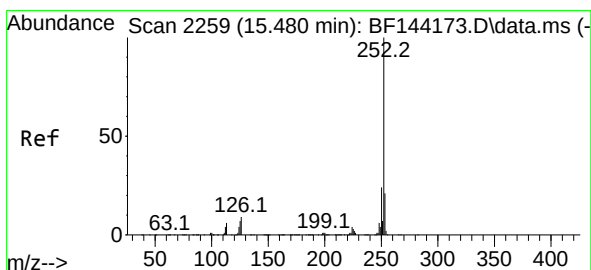
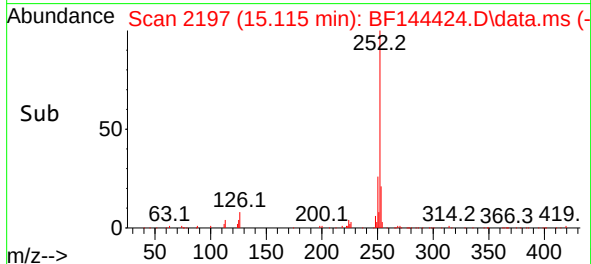
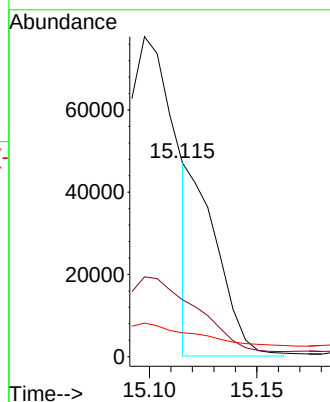
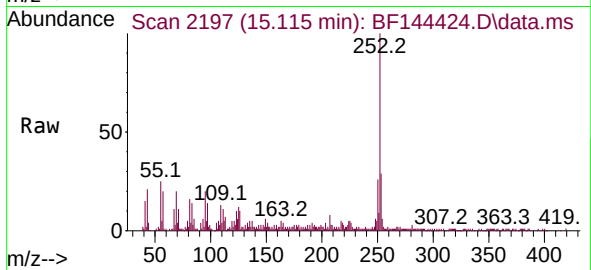
Tgt Ion:252 Resp: 42566

Ion	Ratio	Lower	Upper
252	100		
253	29.3	18.0	27.0
125	12.3	5.4	8.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#90

Benzo(a)pyrene

Concen: 8.943 ng

RT: 15.468 min Scan# 2257

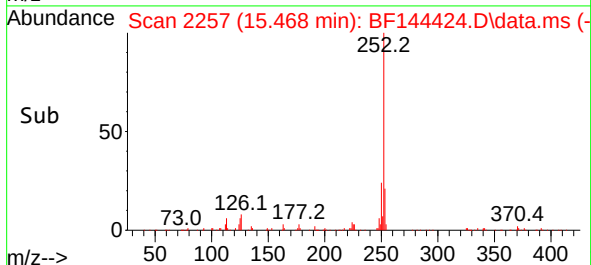
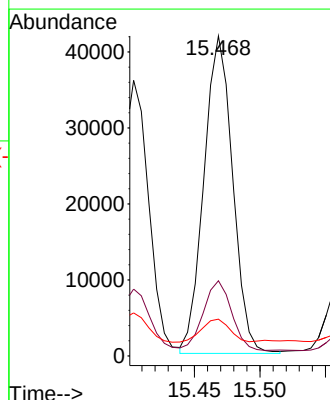
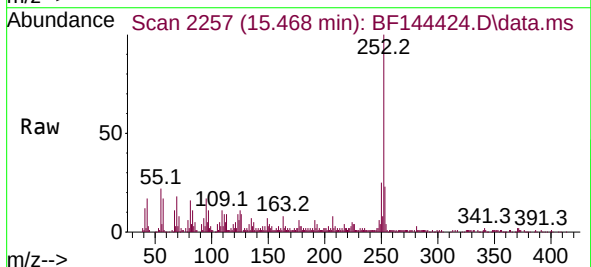
Delta R.T. -0.006 min

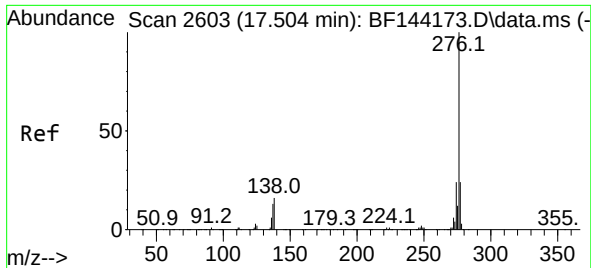
Lab File: BF144424.D

Acq: 03 Dec 2025 17:34

Tgt Ion:252 Resp: 63733

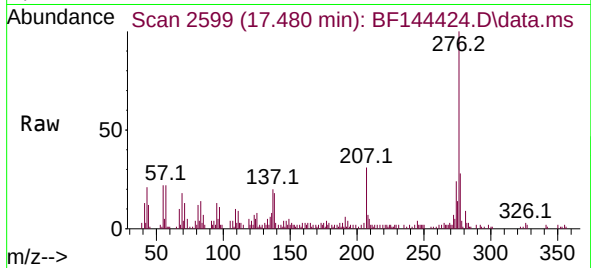
Ion	Ratio	Lower	Upper
252	100		
253	23.5	16.7	25.1
125	11.5	5.7	8.5





#92
 Benzo(g,h,i)perylene
 Concen: 3.903 ng
 RT: 17.480 min Scan# 2599
 Delta R.T. -0.012 min
 Lab File: BF144424.D
 Acq: 03 Dec 2025 17:34

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002DL



Tgt Ion:276 Resp: 30189
 Ion Ratio Lower Upper
 276 100
 277 27.7 19.0 28.4
 138 18.0 12.9 19.3

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

