

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051625\
 Data File : BF142436.D
 Acq On : 16 May 2025 19:40
 Operator : RC/JU
 Sample : Q2055-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051525

Quant Time: May 16 22:42:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

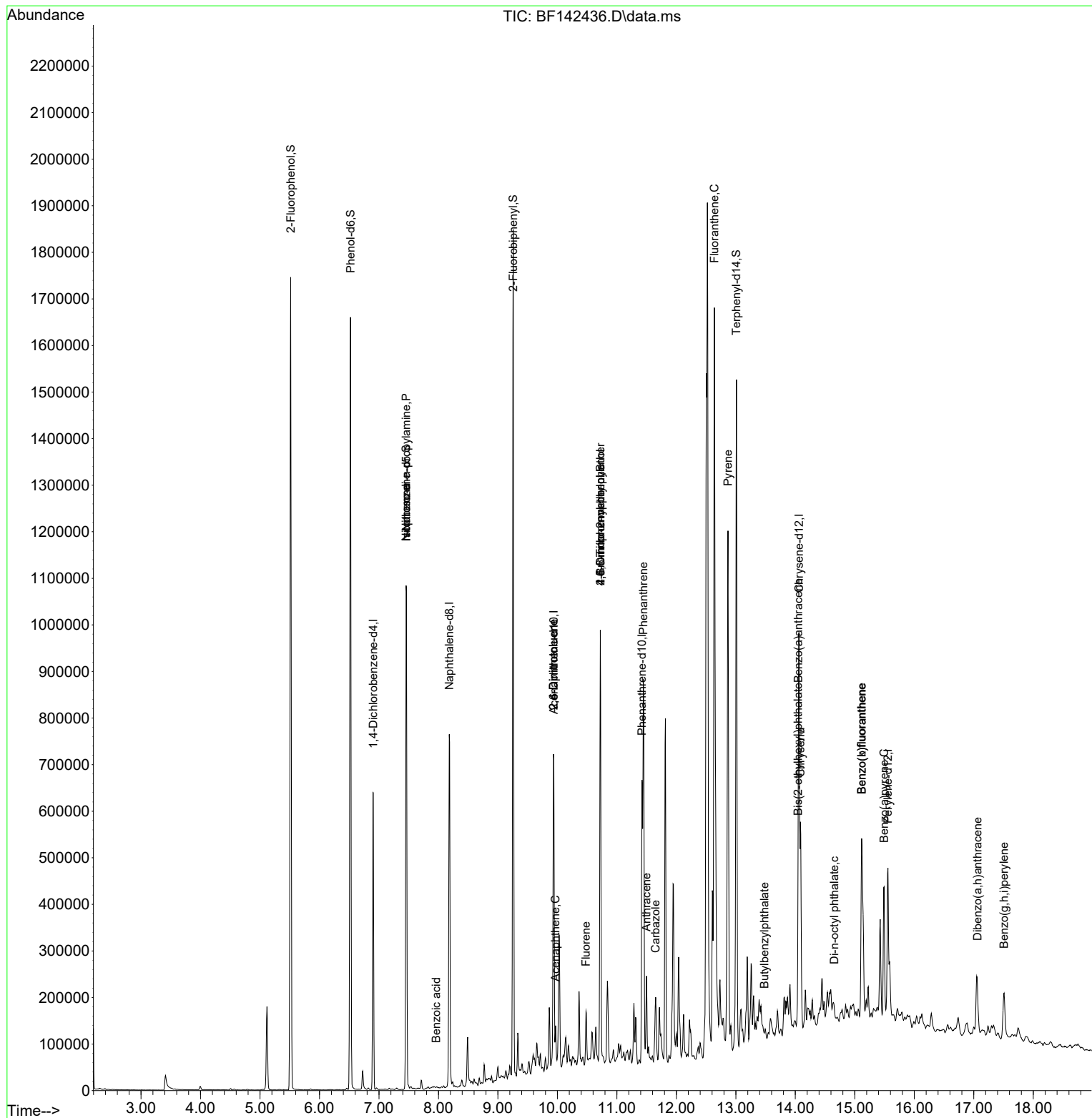
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	142013	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	492918	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	206842	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	316644	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	237684	20.000	ng	0.00
86) Perylene-d12	15.557	264	192132	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	671432	80.710	ng	0.00
7) Phenol-d6	6.522	99	781836	76.412	ng	0.00
23) Nitrobenzene-d5	7.457	82	460360	56.959	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	159496	79.867	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	806761	55.615	ng	0.00
79) Terphenyl-d14	13.010	244	684442	42.622	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.457	70	61680	9.746	ng	# 76
25) Isophorone	7.457	82	456860	29.850	ng	# 62
32) Benzoic acid	7.963	122	203	6.065	ng	# 35
51) 2,6-Dinitrotoluene	9.933	165	26725	10.750	ng	# 23
52) Acenaphthene	9.969	154	24145	2.035	ng	95
57) 2,4-Dinitrotoluene	9.933	165	26725	8.380	ng	# 25
58) Fluorene	10.480	166	44321	3.317	ng	98
65) 4,6-Dinitro-2-methylph...	10.722	198	214	7.308	ng	# 1
67) 4-Bromophenyl-phenylether	10.722	248	9680	2.697	ng	# 1
71) Phenanthrene	11.445	178	439332	26.469	ng	99
72) Anthracene	11.498	178	105498	6.186	ng	98
73) Carbazole	11.651	167	73694	4.816	ng	99
75) Fluoranthene	12.639	202	757472	45.654	ng	98
78) Pyrene	12.868	202	647605	30.611	ng	99
80) Butylbenzylphthalate	13.480	149	396	3.718	ng	# 1
81) Benzo(a)anthracene	14.051	228	279263	18.143	ng	97
83) Chrysene	14.086	228	245488	17.132	ng	97
84) Bis(2-ethylhexyl)phtha...	14.045	149	1907	4.453	ng	# 86
85) Di-n-octyl phthalate	14.657	149	497	7.868	ng	# 65
88) Benzo(b)fluoranthene	15.115	252	351163	30.177	ng	98
89) Benzo(k)fluoranthene	15.115	252	351163	32.976	ng	97
90) Benzo(a)pyrene	15.492	252	183411	17.589	ng	99
91) Dibenzo(a,h)anthracene	17.062	278	24983	2.263	ng	# 87
92) Benzo(g,h,i)perylene	17.509	276	102006	9.308	ng	98

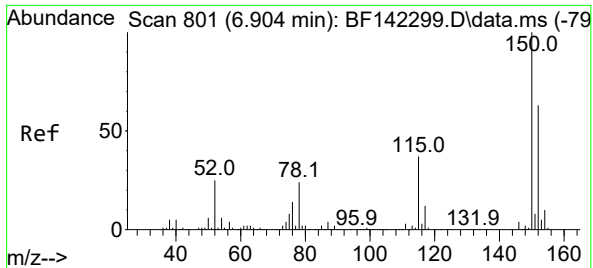
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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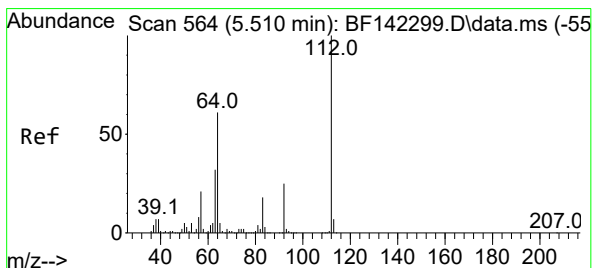
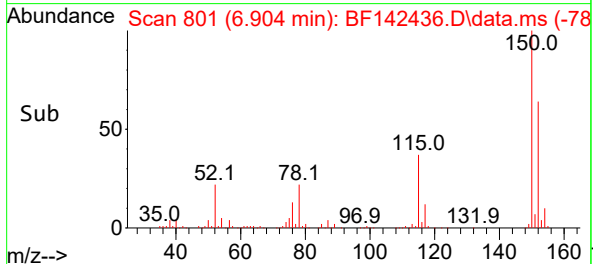
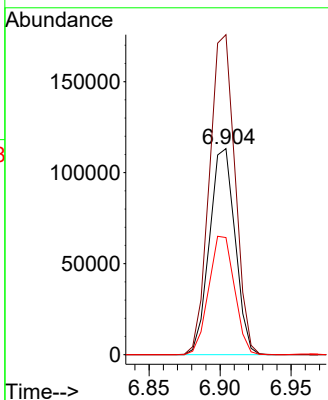
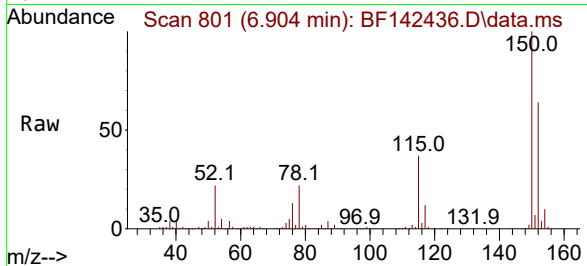




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 801
Delta R.T. 0.000 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

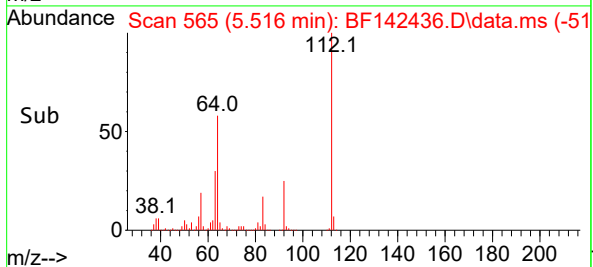
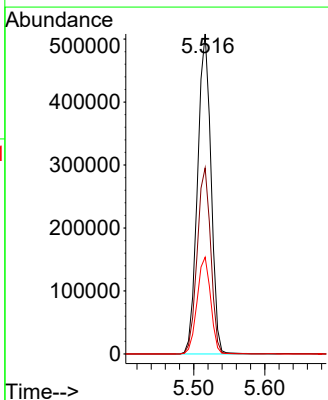
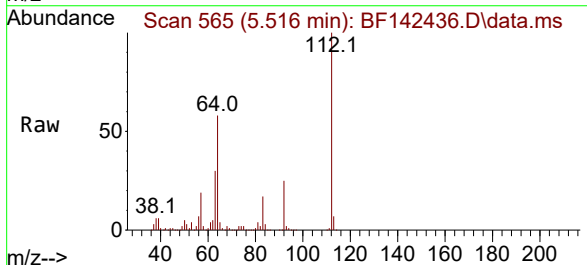
Instrument :
BNA_F
ClientSampleId :
OR-02-051525

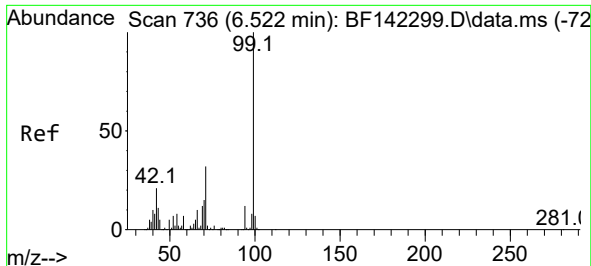
Tgt Ion:152 Resp: 142013
Ion Ratio Lower Upper
152 100
150 155.3 126.6 190.0
115 56.9 47.3 70.9



#5
2-Fluorophenol
Concen: 80.710 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:112 Resp: 671432
Ion Ratio Lower Upper
112 100
64 58.2 48.9 73.3
63 30.2 25.6 38.4





#7
Phenol-d6
Concen: 76.412 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

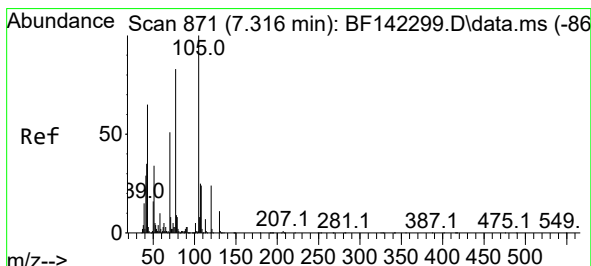
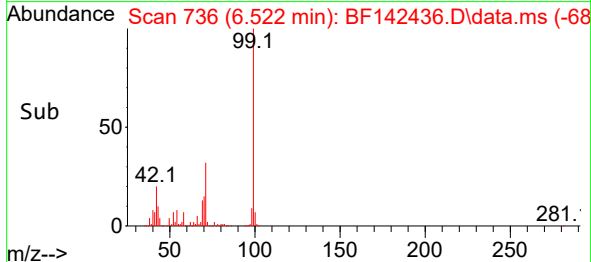
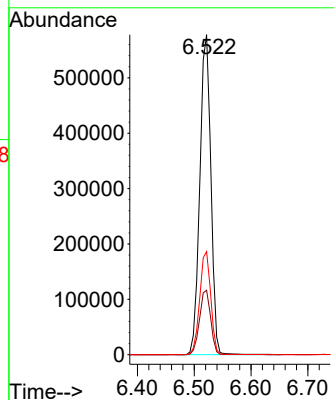
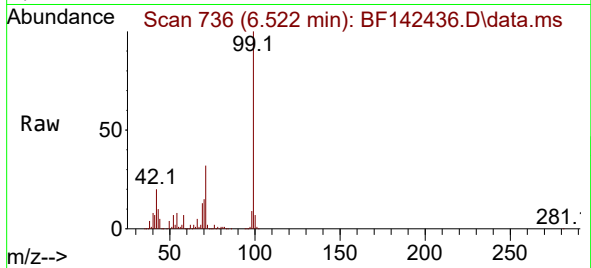
Instrument :

BNA_F

ClientSampleId :

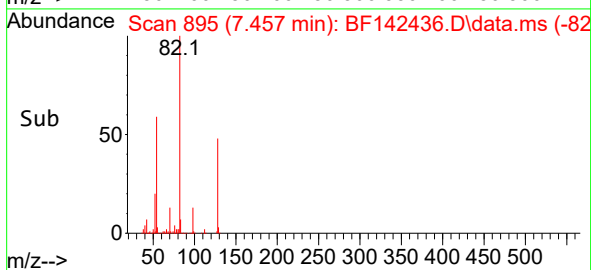
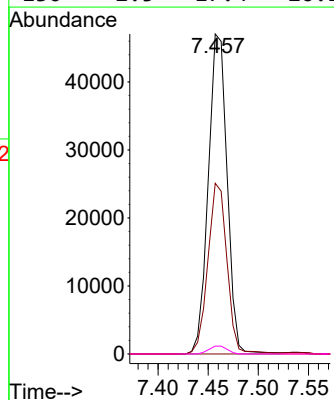
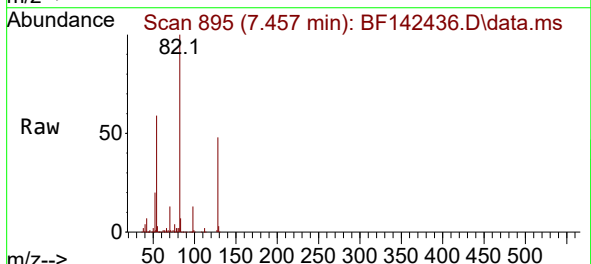
OR-02-051525

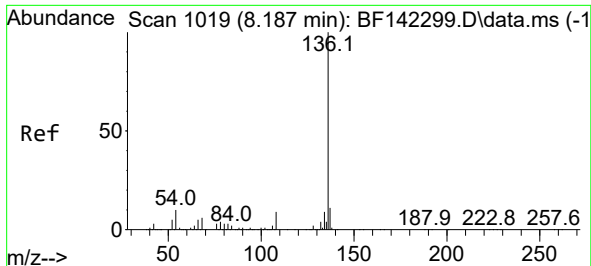
Tgt Ion: 99 Resp: 781836
Ion Ratio Lower Upper
99 100
42 20.2 17.0 25.4
71 32.2 25.8 38.8



#19
n-Nitroso-di-n-propylamine
Concen: 9.746 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.141 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion: 70 Resp: 61680
Ion Ratio Lower Upper
70 100
42 53.3 54.8 82.2#
101 0.0 7.7 11.5#
130 2.5 17.4 26.2#



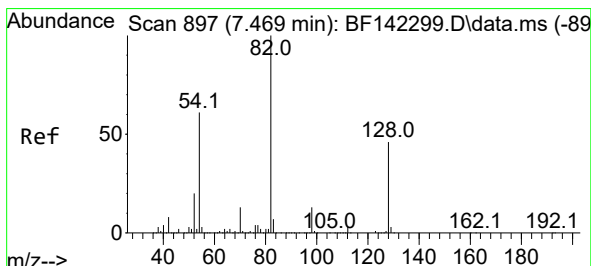
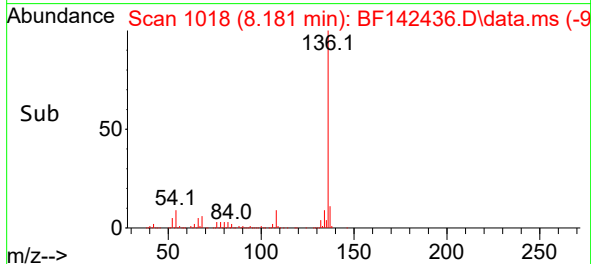
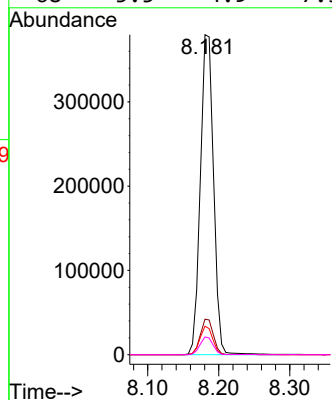
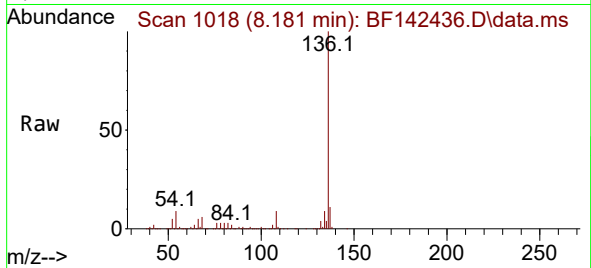


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Instrument :
BNA_F
ClientSampleId :
OR-02-051525

Tgt Ion:136 Resp: 492918

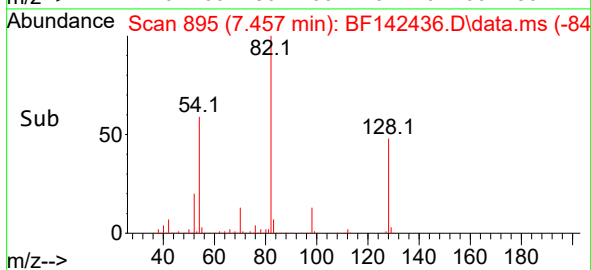
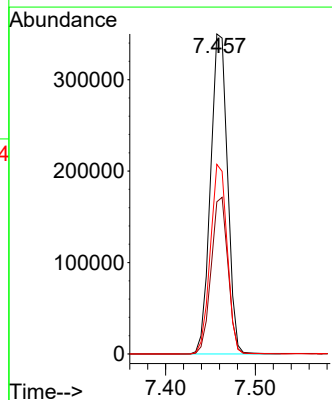
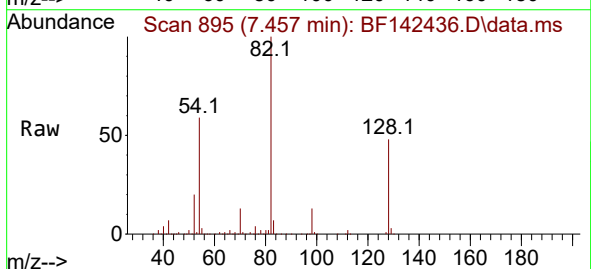
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.9	7.7	11.5
68	5.5	4.9	7.3

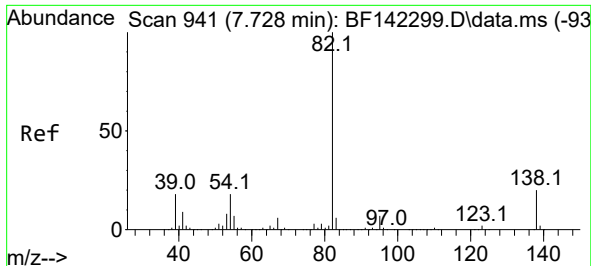


#23
Nitrobenzene-d5
Concen: 56.959 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion: 82 Resp: 460360

Ion	Ratio	Lower	Upper
82	100		
128	47.6	37.0	55.6
54	59.3	48.6	73.0

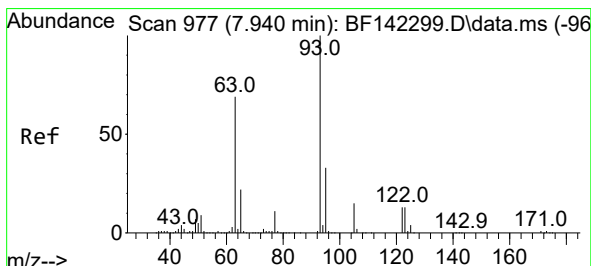
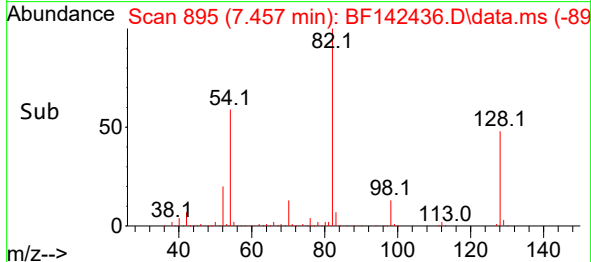
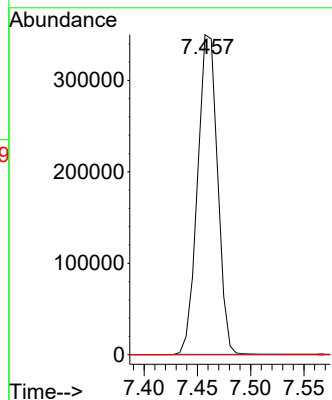
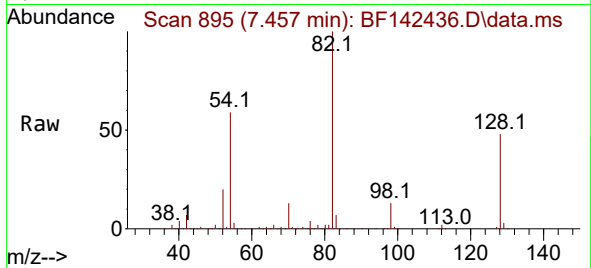




#25
Isophorone
Concen: 29.850 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.271 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

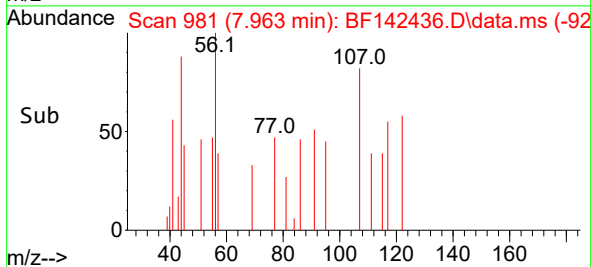
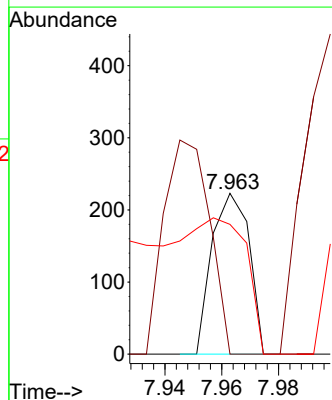
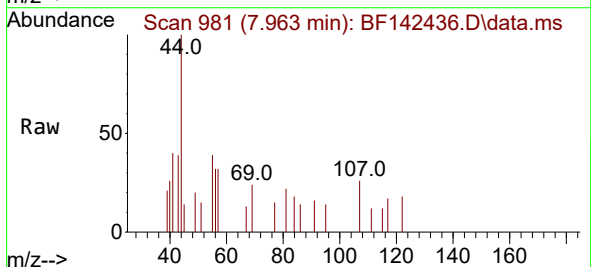
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BNA_F
ClientSampleId :
OR-02-051525

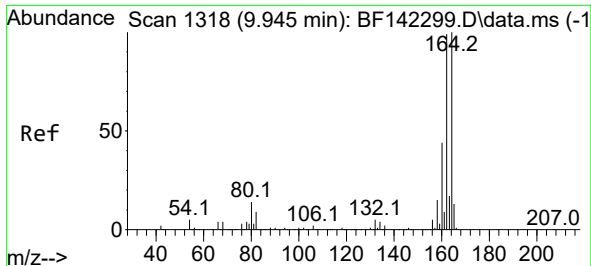
Tgt Ion: 82 Resp: 456860
Ion Ratio Lower Upper
82 100
95 0.0 5.8 8.8#
138 0.0 16.1 24.1#



#32
Benzoic acid
Concen: 6.065 ng
RT: 7.963 min Scan# 981
Delta R.T. 0.023 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:122 Resp: 203
Ion Ratio Lower Upper
122 100
105 0.0 97.9 137.9#
77 80.7 67.7 107.7

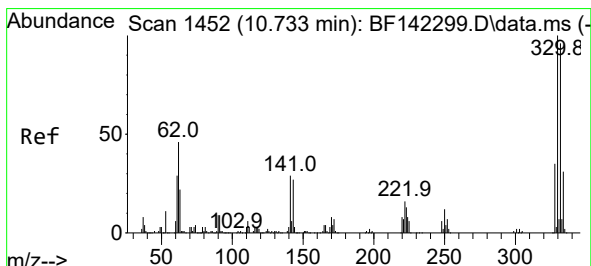
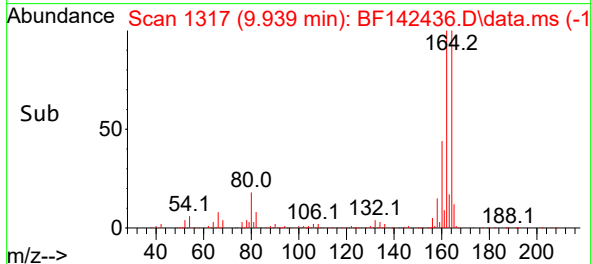
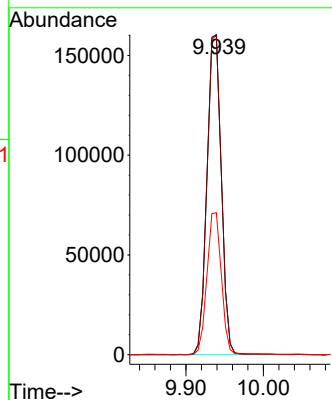
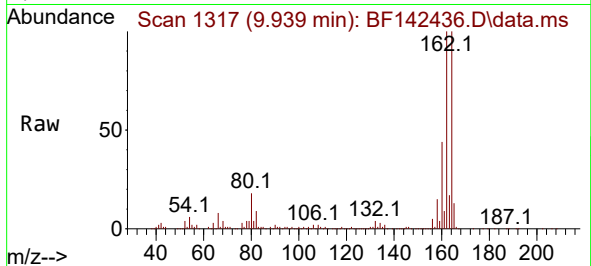




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

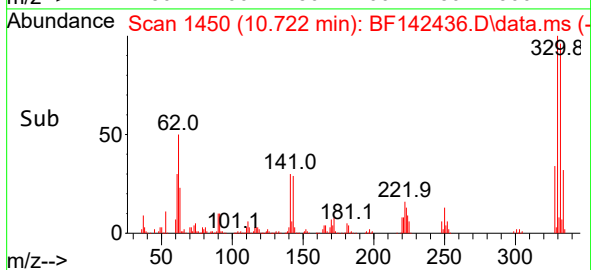
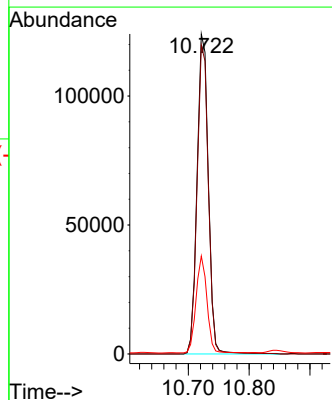
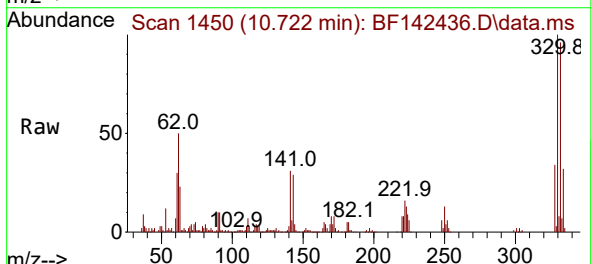
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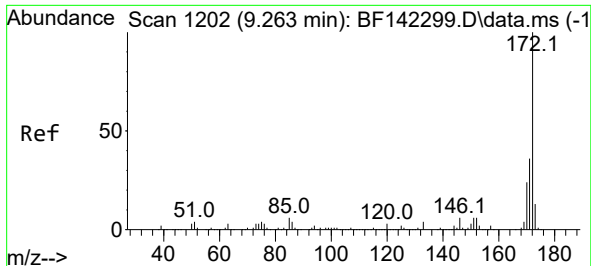
Tgt Ion:164 Resp: 206842
Ion Ratio Lower Upper
164 100
162 99.7 79.2 118.8
160 44.3 35.3 52.9



#42
2,4,6-Tribromophenol
Concen: 79.867 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:330 Resp: 159496
Ion Ratio Lower Upper
330 100
332 96.4 76.8 115.2
141 29.2 24.9 37.3





#45

2-Fluorobiphenyl

Concen: 55.615 ng

RT: 9.257 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

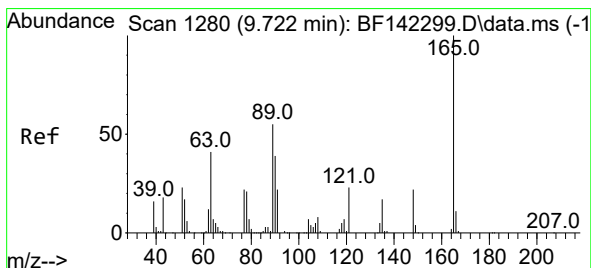
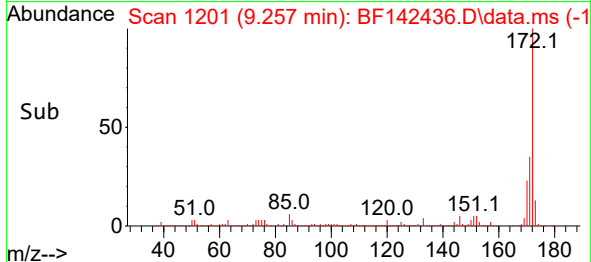
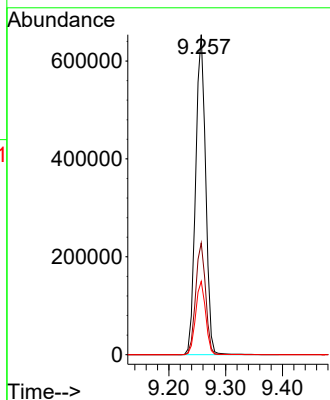
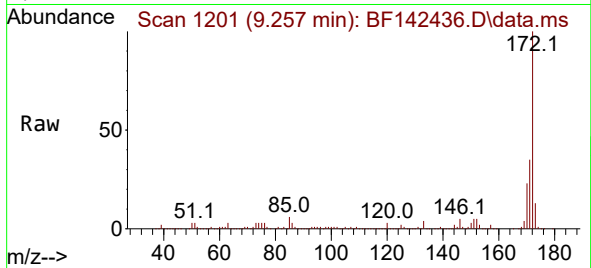
Tgt Ion:172 Resp: 806761

Ion Ratio Lower Upper

172 100

171 34.9 28.6 42.8

170 22.9 19.0 28.4



#51

2,6-Dinitrotoluene

Concen: 10.750 ng

RT: 9.933 min Scan# 1316

Delta R.T. 0.212 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

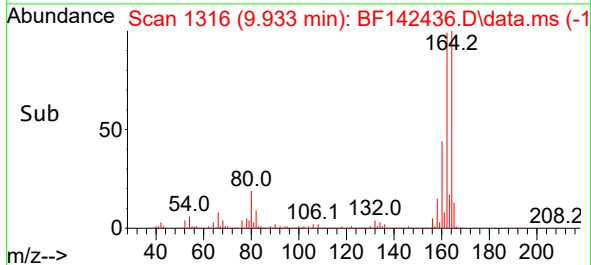
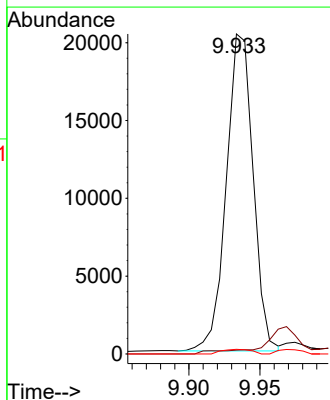
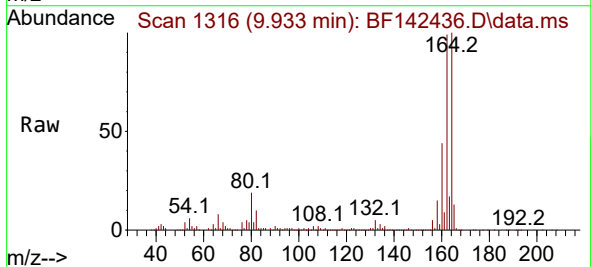
Tgt Ion:165 Resp: 26725

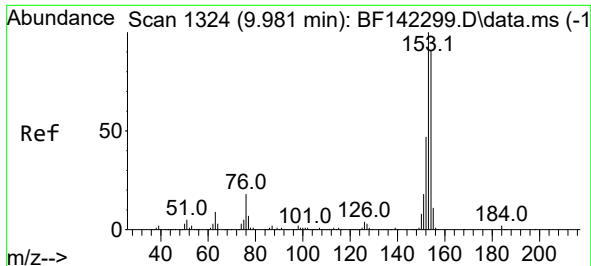
Ion Ratio Lower Upper

165 100

63 1.2 49.5 74.3#

89 1.5 44.6 66.8#

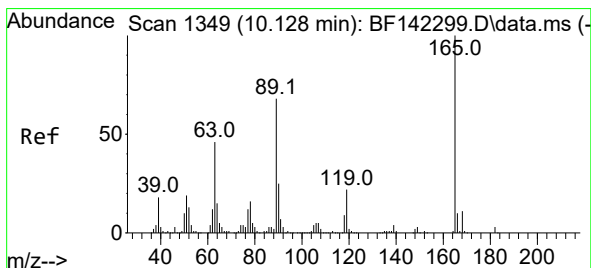
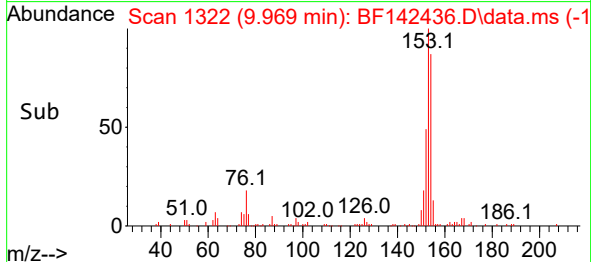
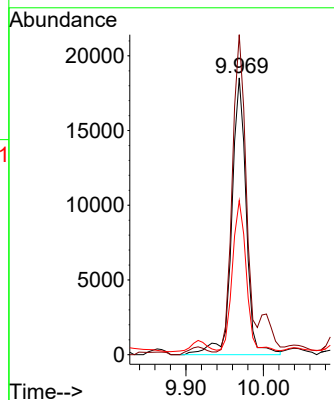
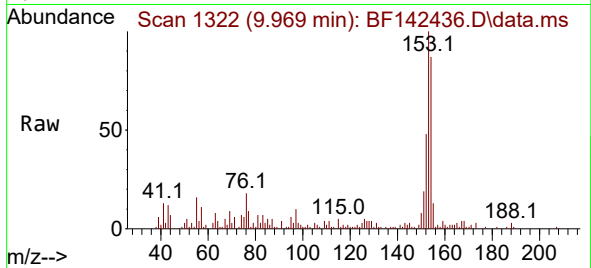




#52
Acenaphthene
Concen: 2.035 ng
RT: 9.969 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

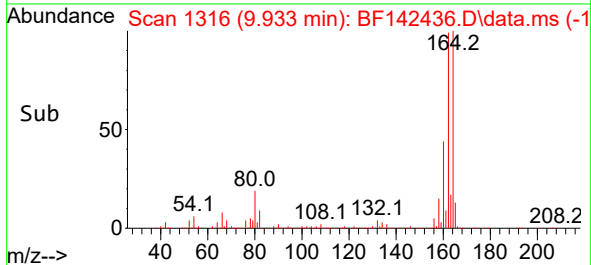
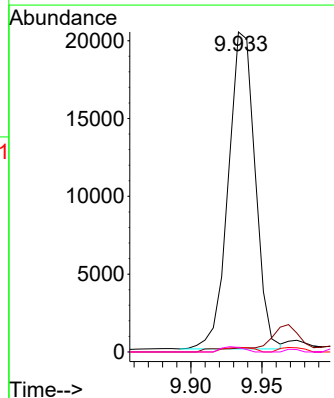
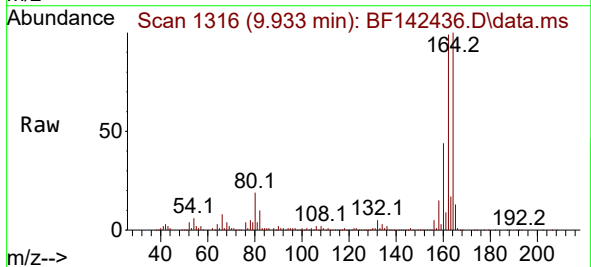
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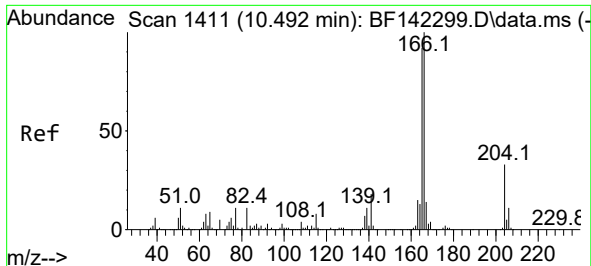
Tgt Ion:154 Resp: 24145
Ion Ratio Lower Upper
154 100
153 115.6 88.0 132.0
152 55.7 41.6 62.4



#57
2,4-Dinitrotoluene
Concen: 8.380 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.194 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:165 Resp: 26725
Ion Ratio Lower Upper
165 100
63 1.2 37.1 55.7#
89 1.5 54.4 81.6#
182 1.4 2.2 3.2#

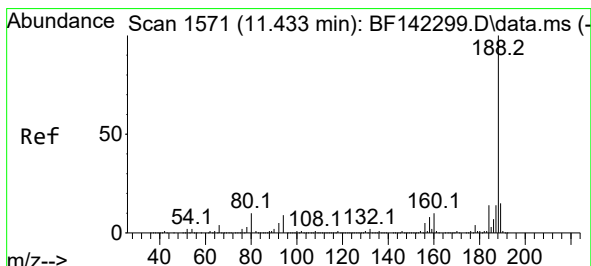
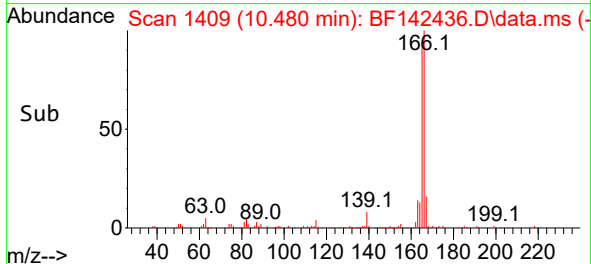
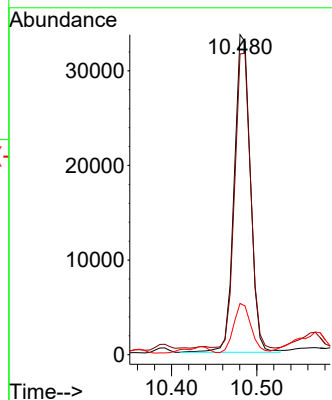
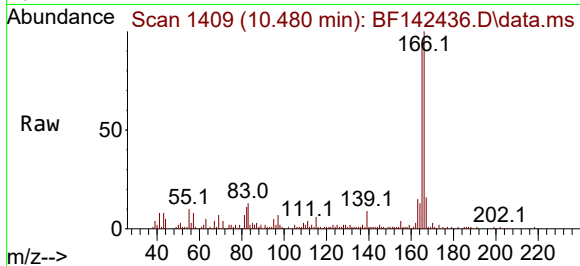




#58
Fluorene
Concen: 3.317 ng
RT: 10.480 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

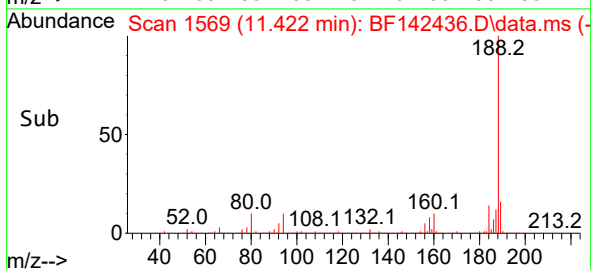
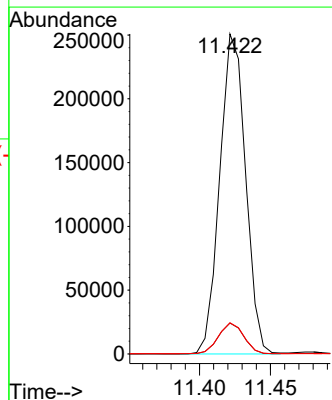
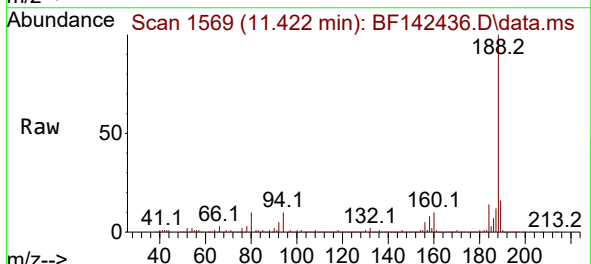
Instrument :
BNA_F
ClientSampleId :
OR-02-051525

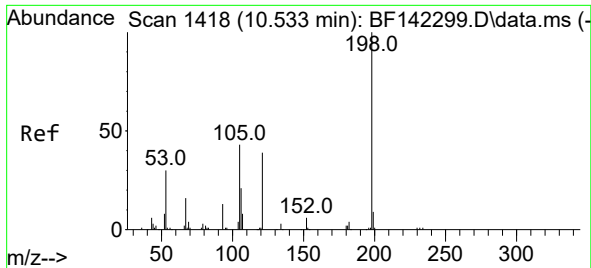
Tgt Ion:166 Resp: 44321
Ion Ratio Lower Upper
166 100
165 94.0 74.0 111.0
167 16.0 10.9 16.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:188 Resp: 316644
Ion Ratio Lower Upper
188 100
94 9.7 7.5 11.3
80 9.7 7.9 11.9

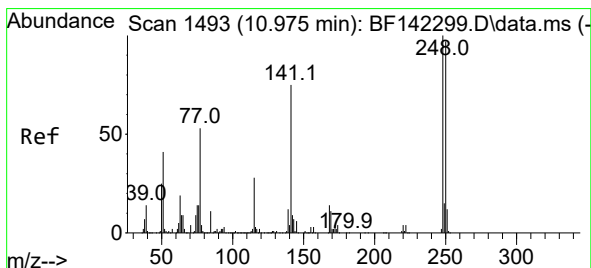
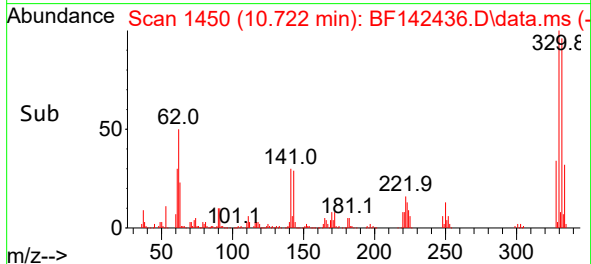
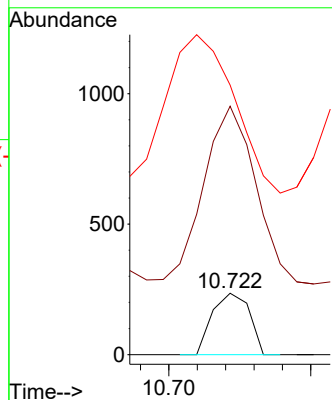
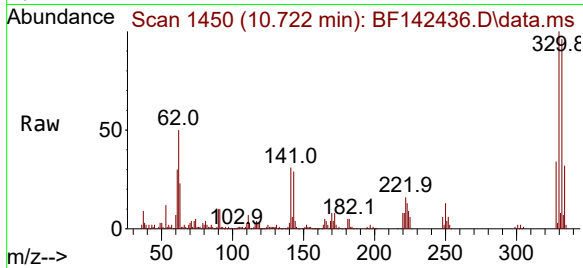




#65
4,6-Dinitro-2-methylphenol
Concen: 7.308 ng
RT: 10.722 min Scan# 1418
Delta R.T. 0.189 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

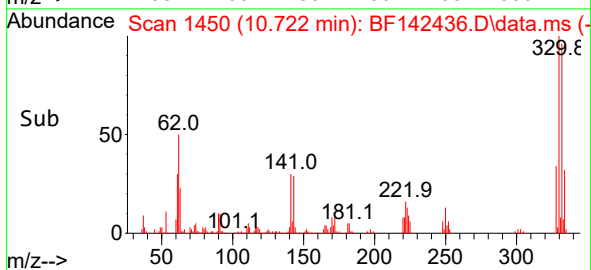
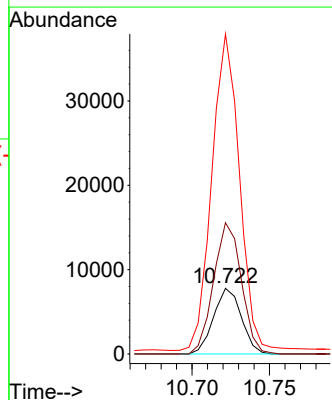
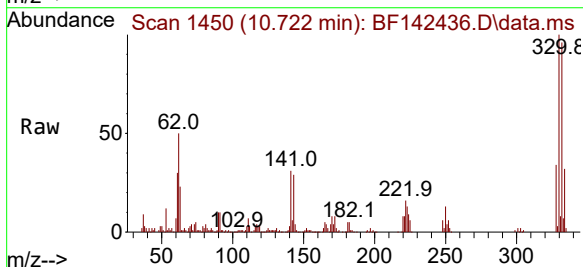
Instrument :
BNA_F
ClientSampleId :
OR-02-051525

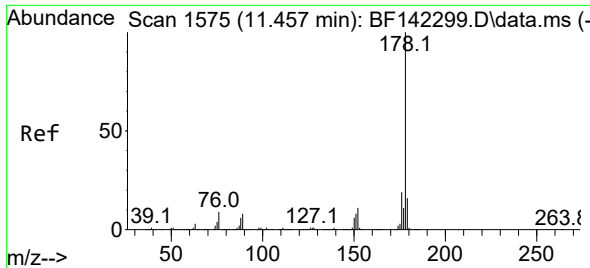
Tgt Ion:198 Resp: 214
Ion Ratio Lower Upper
198 100
51 405.1 32.9 72.9#
105 439.6 23.7 63.7#



#67
4-Bromophenyl-phenylether
Concen: 2.697 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.253 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:248 Resp: 9680
Ion Ratio Lower Upper
248 100
250 199.9 77.9 116.9#
141 487.5 59.8 89.8#

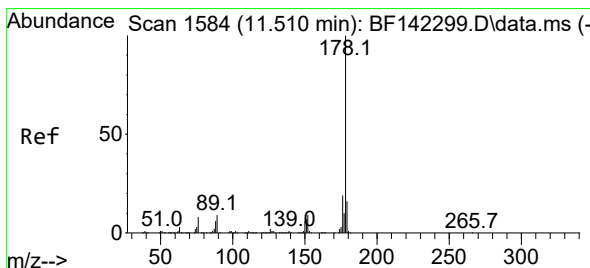
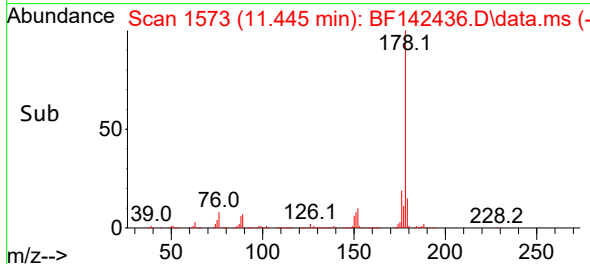
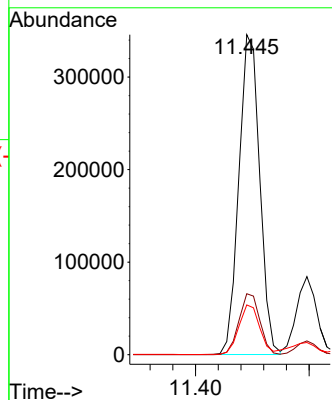
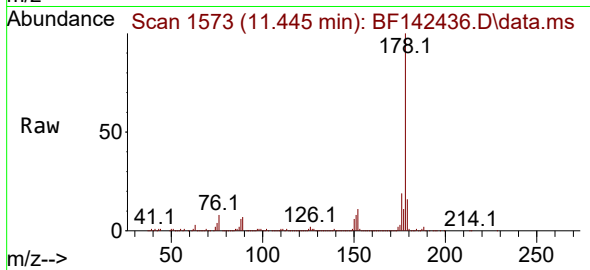




#71
Phenanthrene
Concen: 26.469 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

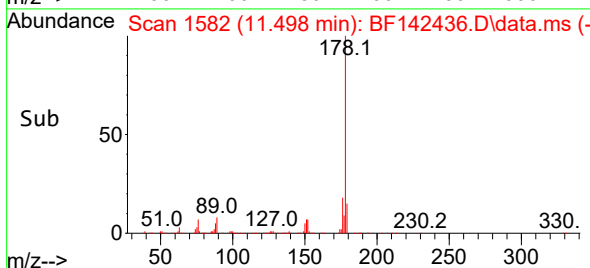
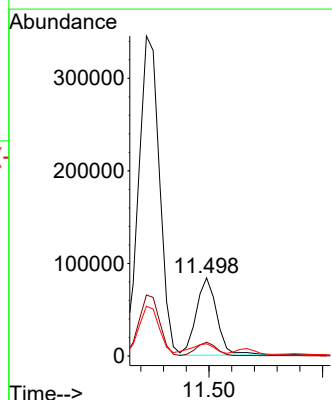
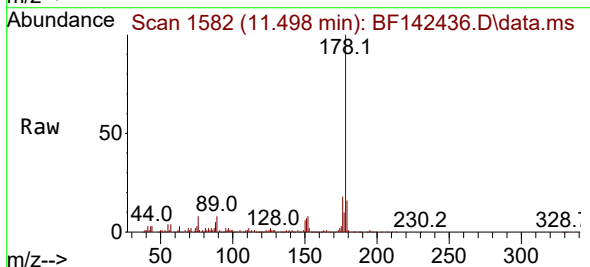
Instrument :
BNA_F
ClientSampleId :
OR-02-051525

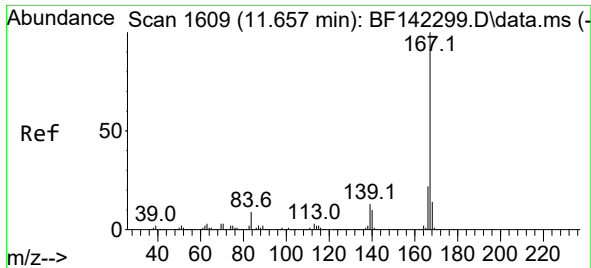
Tgt Ion:178 Resp: 439332
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.5 12.6 18.8



#72
Anthracene
Concen: 6.186 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:178 Resp: 105498
Ion Ratio Lower Upper
178 100
176 17.7 15.3 22.9
179 15.6 12.6 18.8

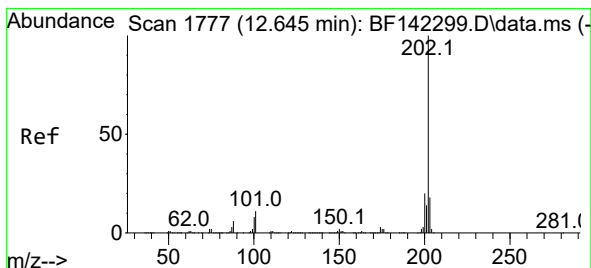
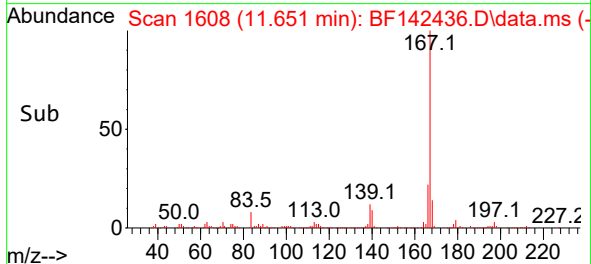
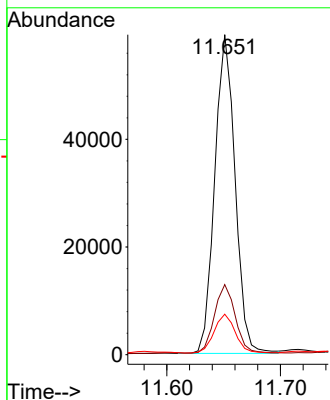
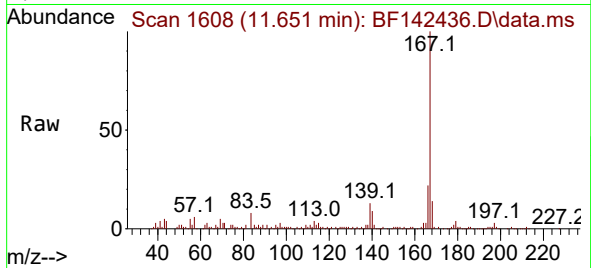




#73
 Carbazole
 Concen: 4.816 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.006 min
 Lab File: BF142436.D
 Acq: 16 May 2025 19:40

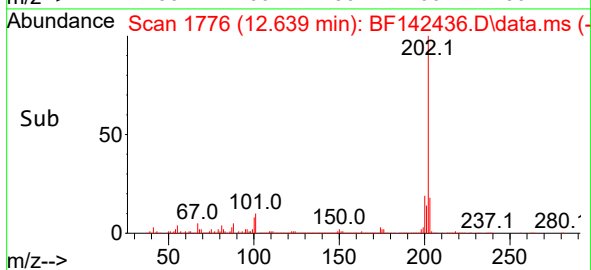
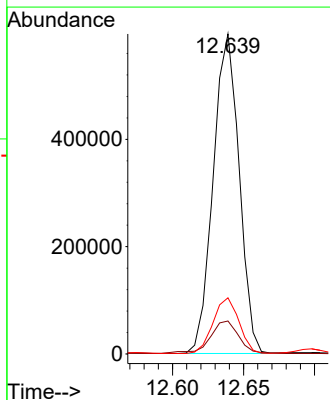
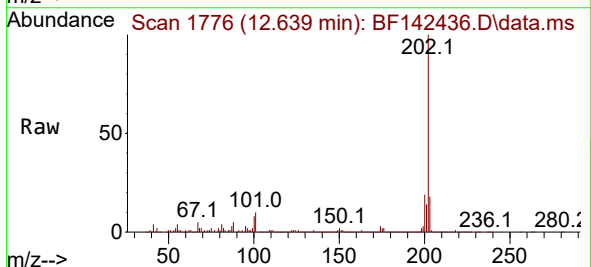
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051525

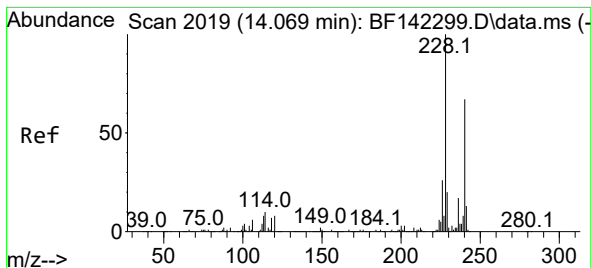
Tgt Ion:167	Resp:	73694
Ion Ratio	Lower	Upper
167	100	
166	21.9	17.2 25.8
139	12.7	10.3 15.5



#75
 Fluoranthene
 Concen: 45.654 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142436.D
 Acq: 16 May 2025 19:40

Tgt Ion:202	Resp:	757472
Ion Ratio	Lower	Upper
202	100	
101	10.3	0.0 31.4
203	17.6	0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

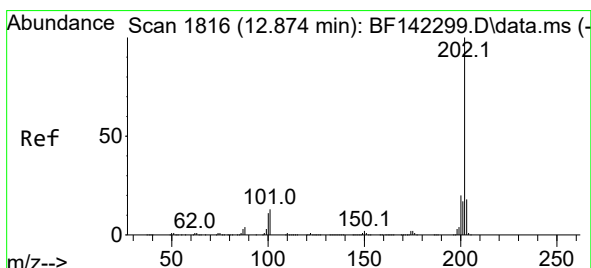
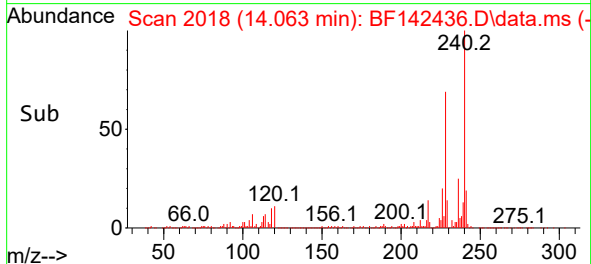
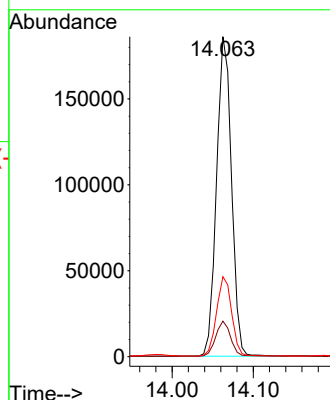
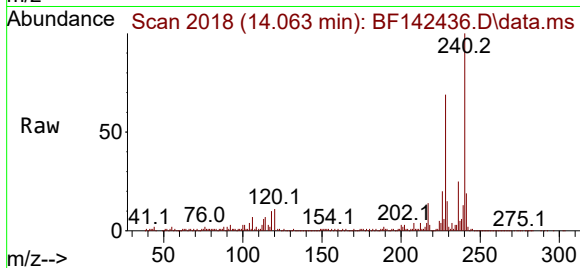
Tgt Ion:240 Resp: 237684

Ion Ratio Lower Upper

240 100

120 11.1 9.7 14.5

236 25.0 20.0 30.0



#78

Pyrene

Concen: 30.611 ng

RT: 12.868 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

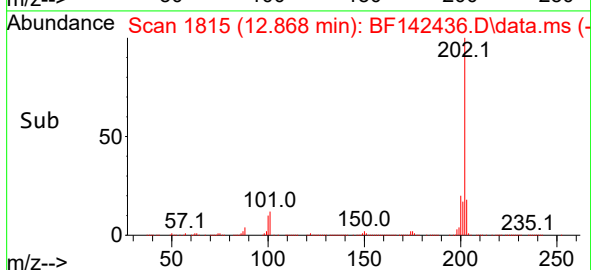
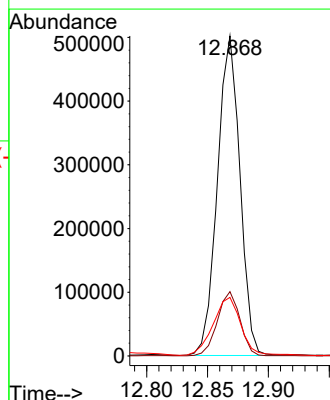
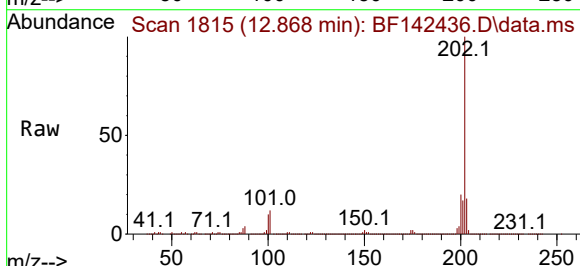
Tgt Ion:202 Resp: 647605

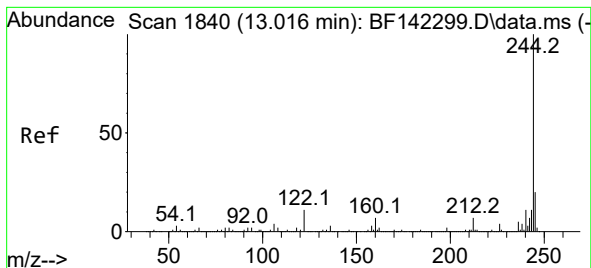
Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.4

203 18.3 14.3 21.5





#79

Terphenyl-d14

Concen: 42.622 ng

RT: 13.010 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

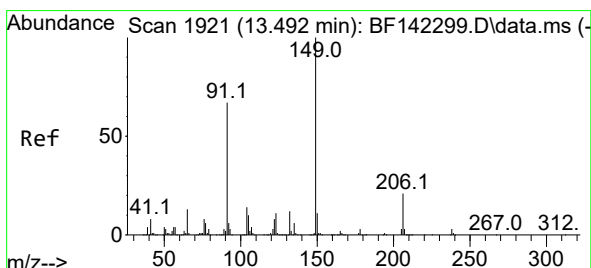
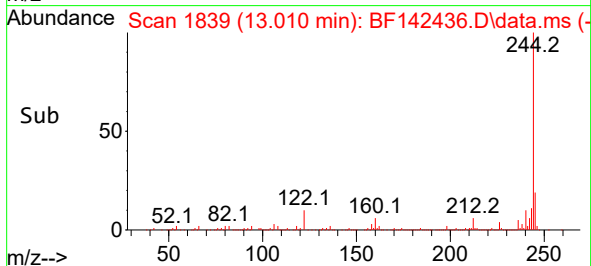
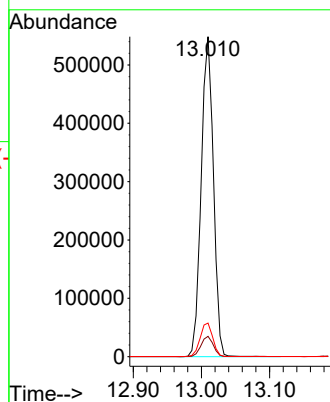
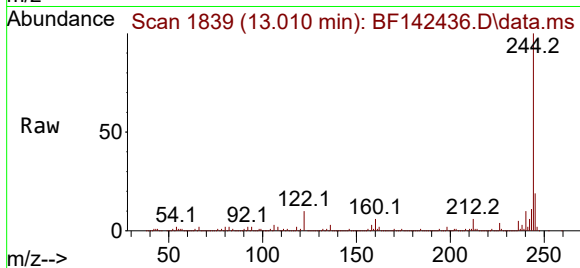
Tgt Ion:244 Resp: 684442

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

122 10.5 9.0 13.4



#80

Butylbenzylphthalate

Concen: 3.718 ng

RT: 13.480 min Scan# 1919

Delta R.T. -0.012 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

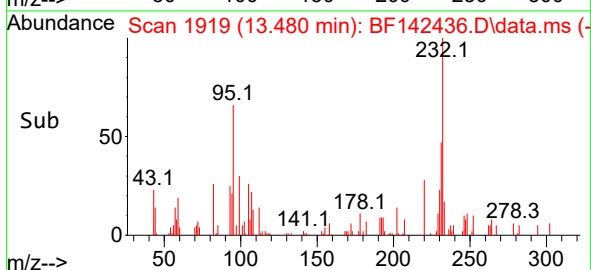
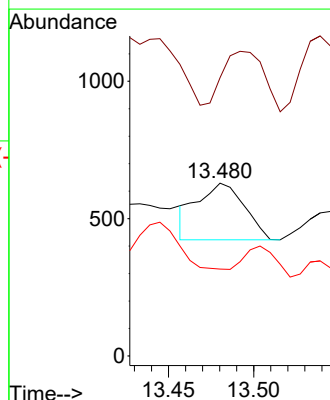
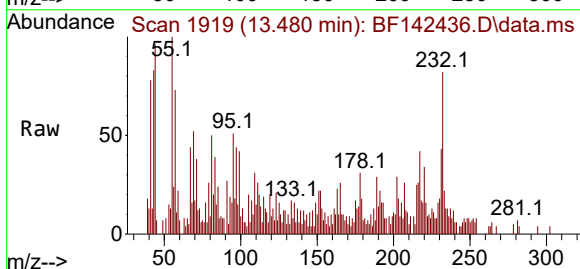
Tgt Ion:149 Resp: 396

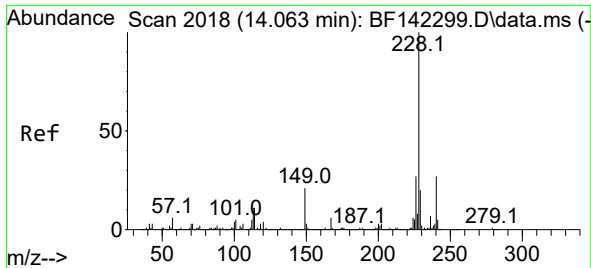
Ion Ratio Lower Upper

149 100

91 161.0 53.8 80.6#

206 50.2 16.6 24.8#

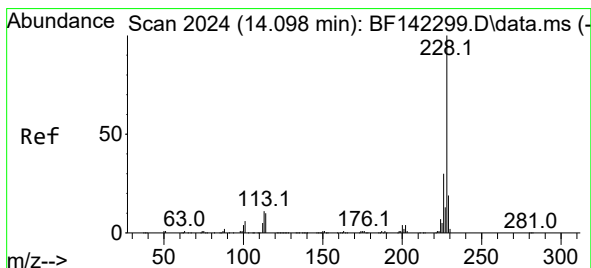
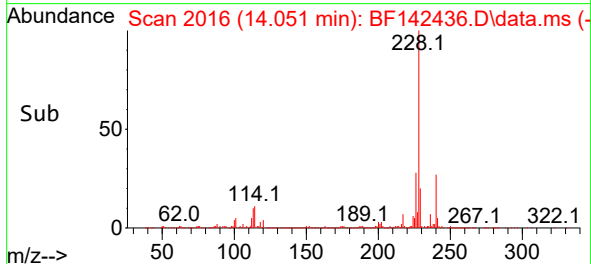
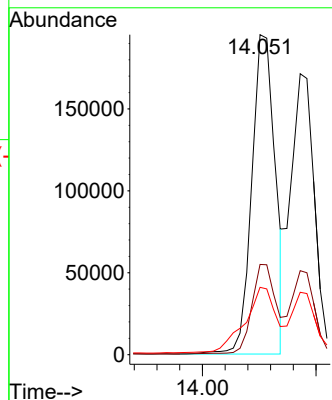
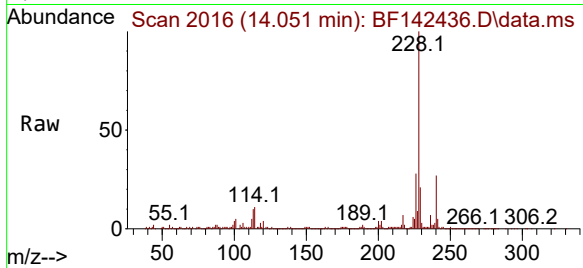




#81
Benzo(a)anthracene
Concen: 18.143 ng
RT: 14.051 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

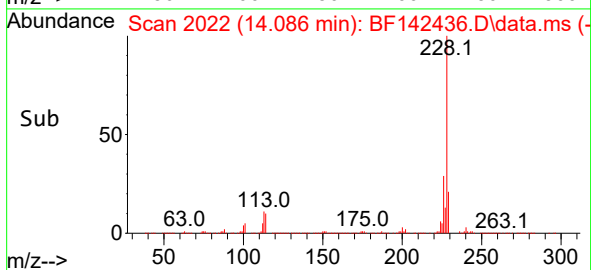
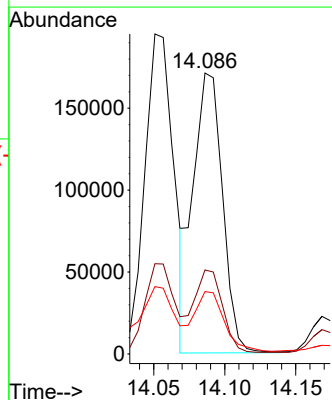
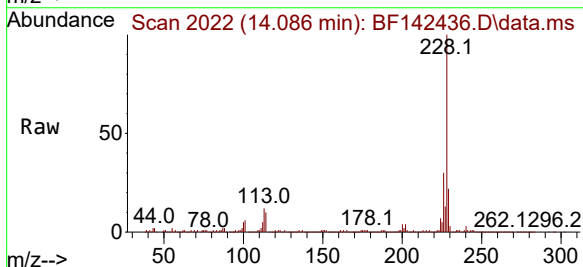
Instrument :
BNA_F
ClientSampleId :
OR-02-051525

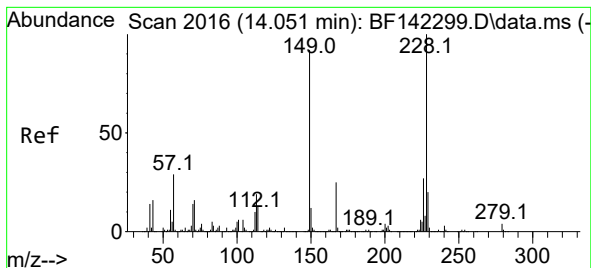
Tgt Ion:228 Resp: 279263
Ion Ratio Lower Upper
228 100
226 28.2 21.5 32.3
229 21.1 15.9 23.9



#83
Chrysene
Concen: 17.132 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:228 Resp: 245488
Ion Ratio Lower Upper
228 100
226 29.9 23.9 35.9
229 22.2 15.4 23.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.453 ng

RT: 14.045 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

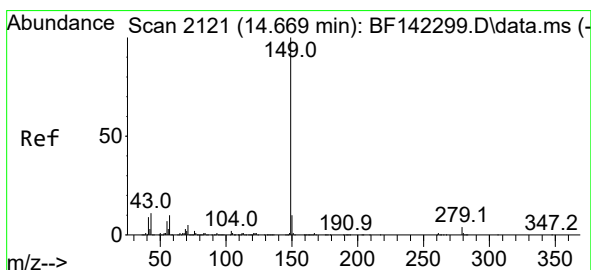
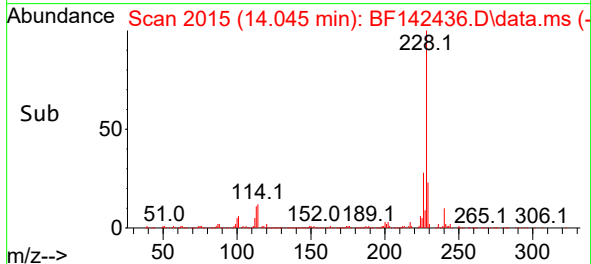
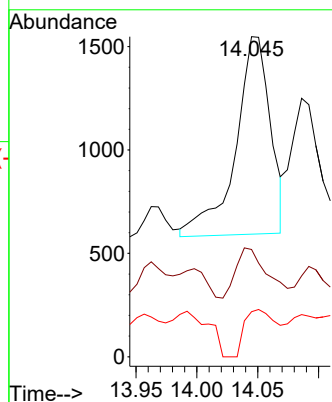
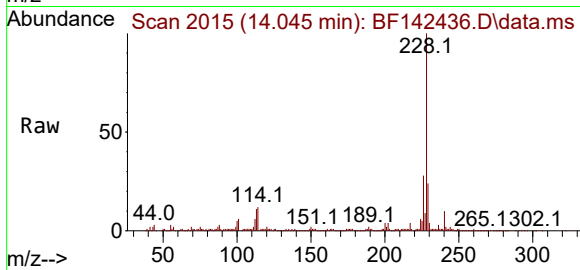
Tgt Ion:149 Resp: 1907

Ion Ratio Lower Upper

149 100

167 33.5 22.0 33.0#

279 14.1 3.0 4.6#



#85

Di-n-octyl phthalate

Concen: 7.868 ng

RT: 14.657 min Scan# 2119

Delta R.T. -0.012 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

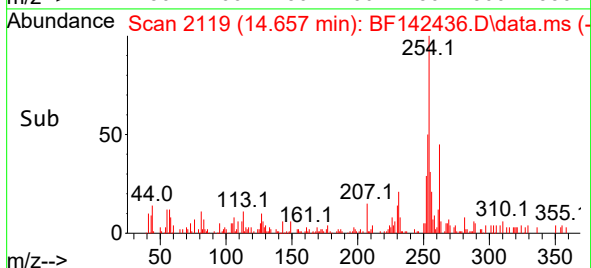
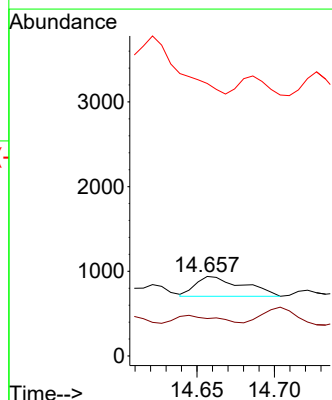
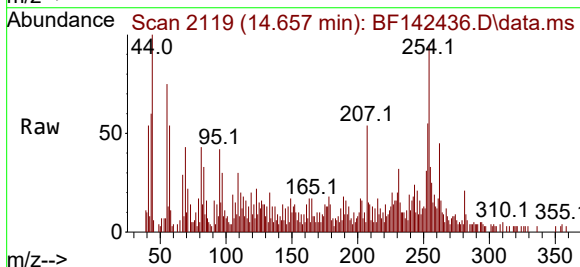
Tgt Ion:149 Resp: 497

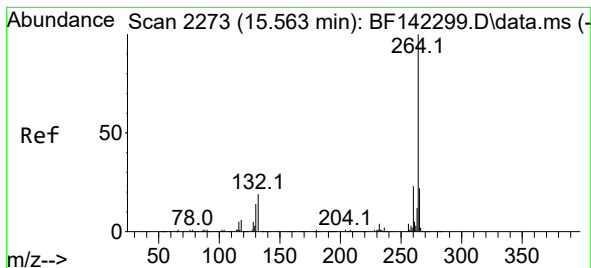
Ion Ratio Lower Upper

149 100

167 32.8 1.1 1.7#

43 0.0 9.2 13.8#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2197

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

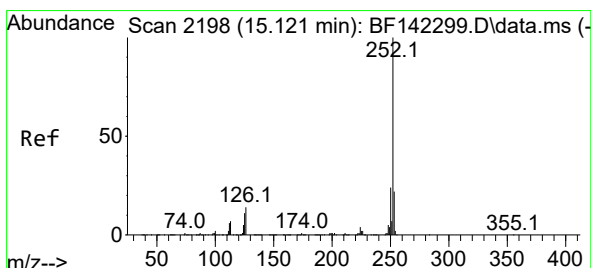
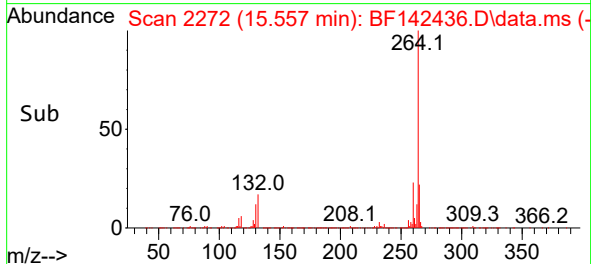
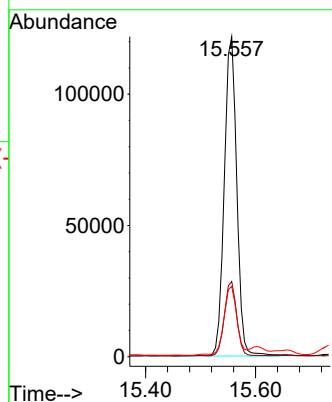
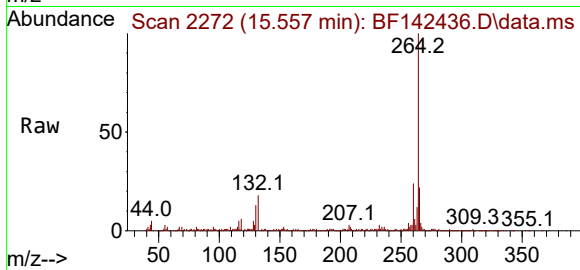
Tgt Ion:264 Resp: 192132

Ion Ratio Lower Upper

264 100

260 23.5 18.6 27.8

265 22.0 17.5 26.3



#88

Benzo(b)fluoranthene

Concen: 30.177 ng

RT: 15.115 min Scan# 2197

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

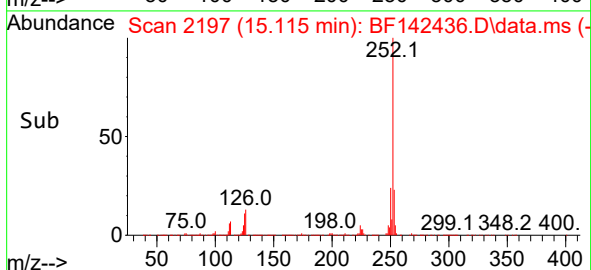
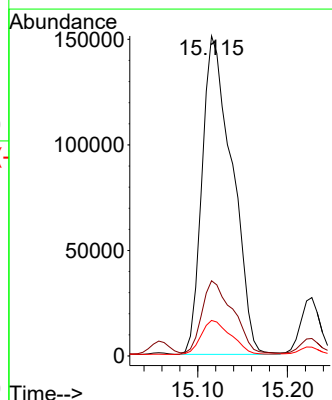
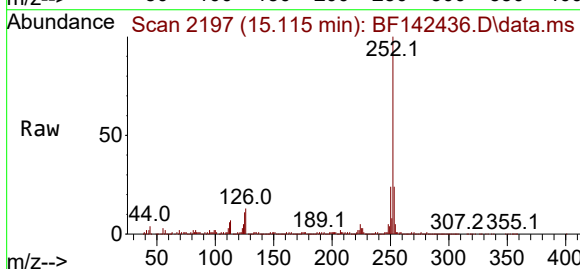
Tgt Ion:252 Resp: 351163

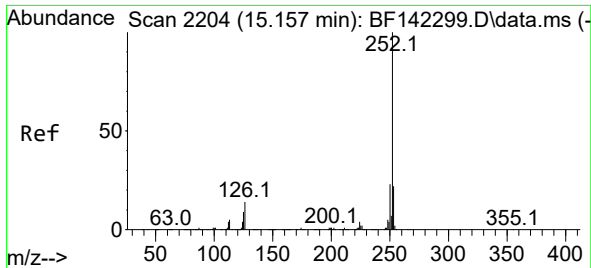
Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 11.1 8.7 13.1

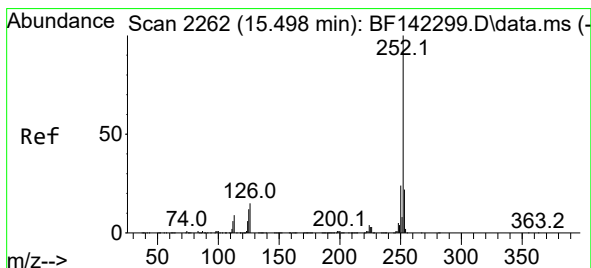
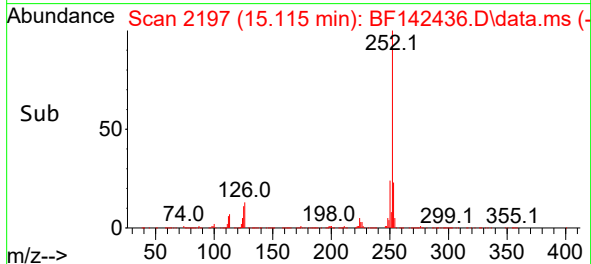
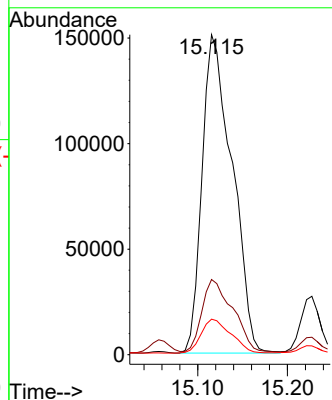
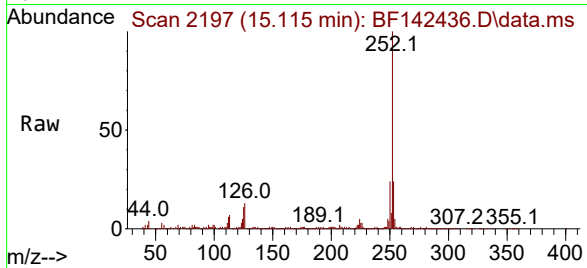




#89
Benzo(k)fluoranthene
Concen: 32.976 ng
RT: 15.115 min Scan# 2197
Delta R.T. -0.041 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

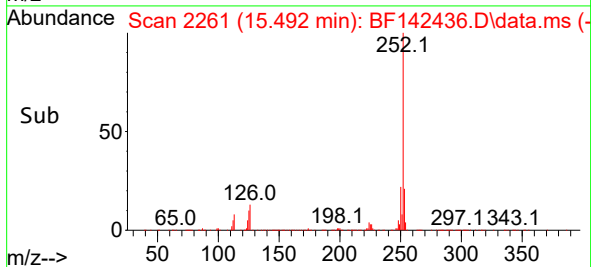
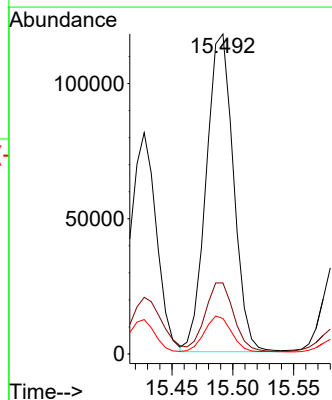
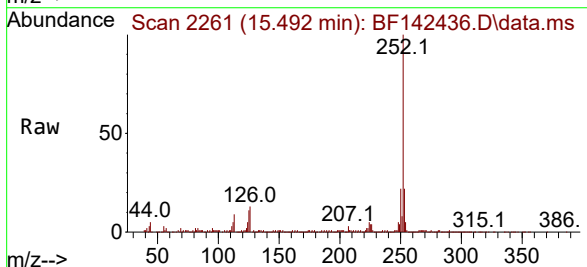
Instrument :
BNA_F
ClientSampleId :
OR-02-051525

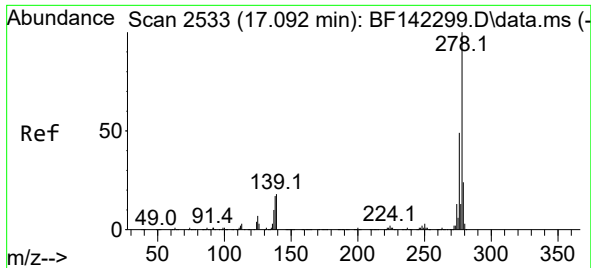
Tgt Ion:252 Resp: 351163
Ion Ratio Lower Upper
252 100
253 23.5 17.6 26.4
125 11.1 8.1 12.1



#90
Benzo(a)pyrene
Concen: 17.589 ng
RT: 15.492 min Scan# 2261
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:252 Resp: 183411
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.6
125 11.1 9.4 14.0

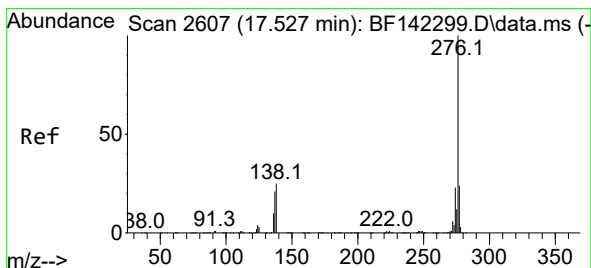
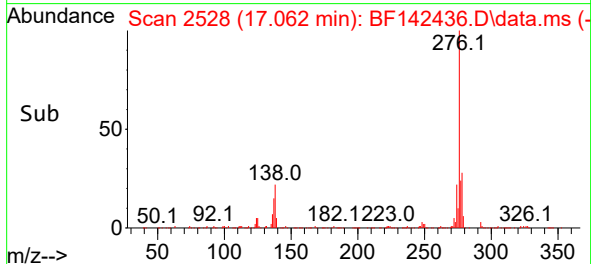
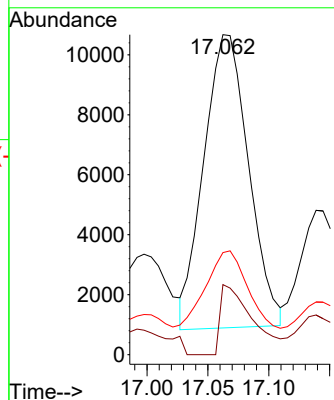
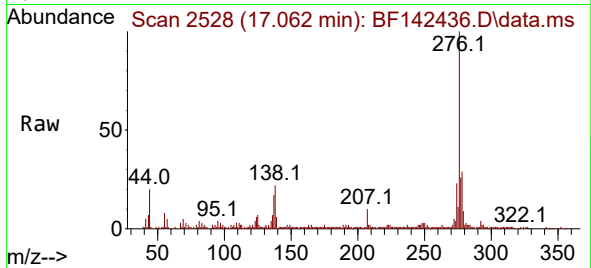




#91
 Dibenzo(a,h)anthracene
 Concen: 2.263 ng
 RT: 17.062 min Scan# 21
 Delta R.T. -0.030 min
 Lab File: BF142436.D
 Acq: 16 May 2025 19:40

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051525

Tgt Ion:278 Resp: 24983
 Ion Ratio Lower Upper
 278 100
 139 21.9 14.5 21.7#
 279 31.9 18.9 28.3#



#92
 Benzo(g,h,i)perylene
 Concen: 9.308 ng
 RT: 17.509 min Scan# 2604
 Delta R.T. -0.018 min
 Lab File: BF142436.D
 Acq: 16 May 2025 19:40

Tgt Ion:276 Resp: 102006
 Ion Ratio Lower Upper
 276 100
 277 25.1 19.0 28.6
 138 23.7 19.8 29.6

