

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102025\  
 Data File : BF144003.D  
 Acq On : 20 Oct 2025 17:25  
 Operator : RC/JU  
 Sample : Q3381-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-222

Quant Time: Oct 20 17:48:01 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 06 15:29:47 2025  
 Response via : Initial Calibration

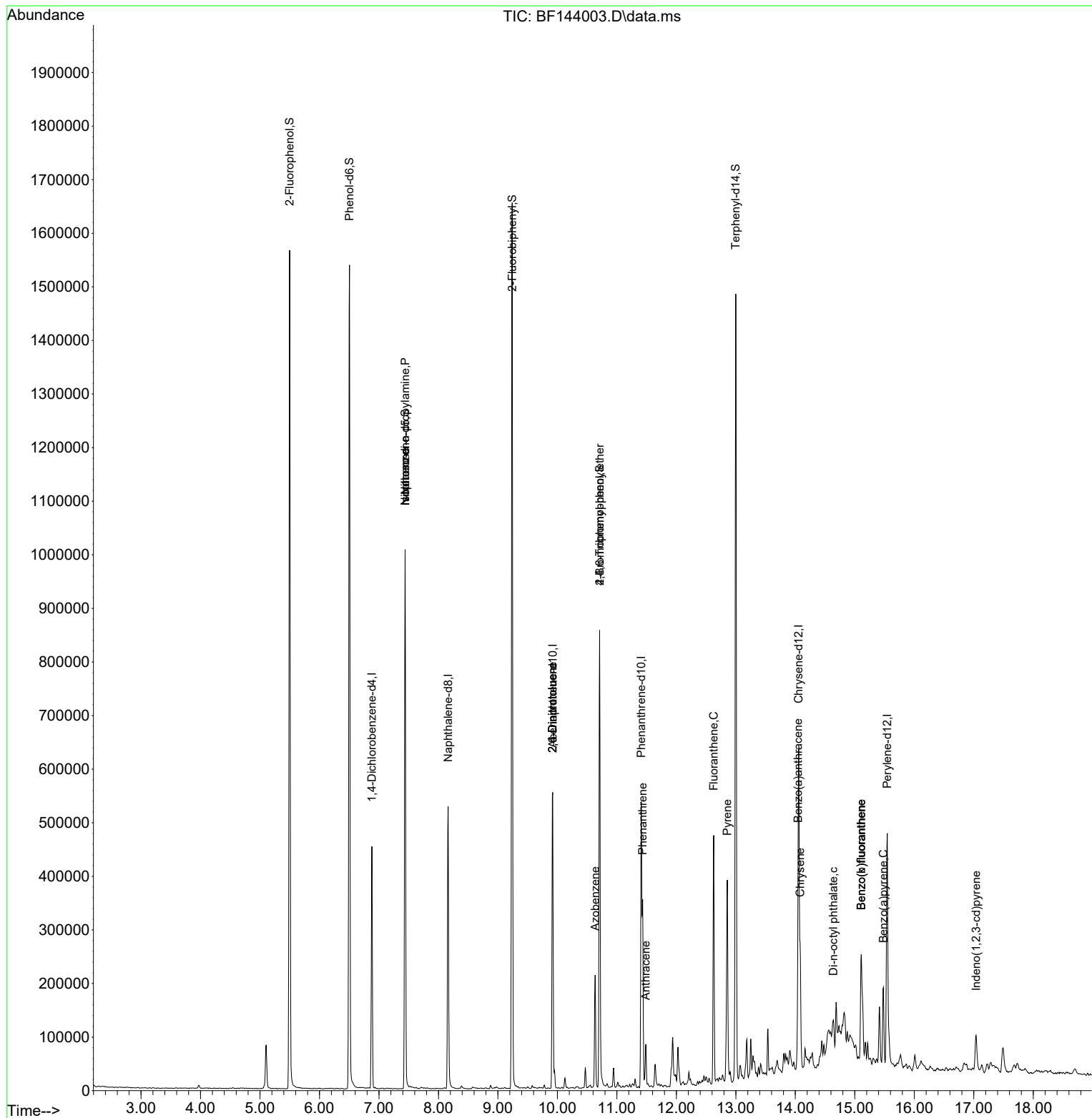
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min)       |
|-------------------------------|--------|------|----------|--------|-------|----------------|
| Internal Standards            |        |      |          |        |       |                |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 90421    | 20.00  | ng    | 0.00           |
| 21) Naphthalene-d8            | 8.163  | 136  | 344796   | 20.00  | ng    | 0.00           |
| 39) Acenaphthene-d10          | 9.922  | 164  | 173323   | 20.00  | ng    | 0.00           |
| 64) Phenanthrene-d10          | 11.410 | 188  | 276079   | 20.00  | ng    | 0.00           |
| 76) Chrysene-d12              | 14.057 | 240  | 213673   | 20.00  | ng    | -0.01          |
| 86) Perylene-d12              | 15.545 | 264  | 276799   | 20.00  | ng    | 0.00           |
| System Monitoring Compounds   |        |      |          |        |       |                |
| 5) 2-Fluorophenol             | 5.498  | 112  | 604528   | 106.17 | ng    | 0.00           |
| 7) Phenol-d6                  | 6.504  | 99   | 710356   | 104.66 | ng    | -0.01          |
| 23) Nitrobenzene-d5           | 7.440  | 82   | 429959   | 75.76  | ng    | -0.02          |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 162827   | 94.32  | ng    | -0.01          |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 805133   | 73.71  | ng    | -0.01          |
| 79) Terphenyl-d14             | 12.998 | 244  | 758728   | 60.69  | ng    | -0.01          |
| Target Compounds              |        |      |          |        |       |                |
| 19) n-Nitroso-di-n-propyla... | 7.440  | 70   | 61042    | 13.14  | ng    | Qvalue<br># 77 |
| 25) Isophorone                | 7.440  | 82   | 360235   | 30.10  | ng    | # 68           |
| 51) 2,6-Dinitrotoluene        | 9.916  | 165  | 22009    | 10.78  | ng    | # 26           |
| 57) 2,4-Dinitrotoluene        | 9.916  | 165  | 22009    | 7.93   | ng    | # 26           |
| 63) Azobenzene                | 10.633 | 77   | 53888    | 5.04   | ng    | # 1            |
| 67) 4-Bromophenyl-phenylether | 10.710 | 248  | 10431    | 3.42   | ng    | # 1            |
| 71) Phenanthrene              | 11.433 | 178  | 181246   | 13.54  | ng    | 98             |
| 72) Anthracene                | 11.486 | 178  | 46972    | 3.47   | ng    | 97             |
| 75) Fluoranthene              | 12.627 | 202  | 267794   | 19.37  | ng    | 99             |
| 78) Pyrene                    | 12.857 | 202  | 220032   | 12.35  | ng    | 99             |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 123930   | 8.86   | ng    | 98             |
| 83) Chrysene                  | 14.080 | 228  | 121556   | 9.39   | ng    | 98             |
| 85) Di-n-octyl phthalate      | 14.639 | 149  | 28039    | 2.45   | ng    | # 56           |
| 87) Indeno(1,2,3-cd)pyrene    | 17.039 | 276  | 48301    | 2.85   | ng    | 97             |
| 88) Benzo(b)fluoranthene      | 15.110 | 252  | 186854   | 11.75  | ng    | 97             |
| 89) Benzo(k)fluoranthene      | 15.110 | 252  | 186854   | 12.70  | ng    | # 98           |
| 90) Benzo(a)pyrene            | 15.480 | 252  | 95488    | 6.93   | ng    | # 98           |

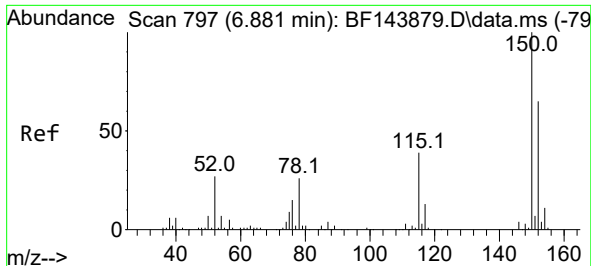
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102025\  
Data File : BF144003.D  
Acq On : 20 Oct 2025 17:25  
Operator : RC/JU  
Sample : Q3381-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
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VNJ-222

Quant Time: Oct 20 17:48:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 06 15:29:47 2025  
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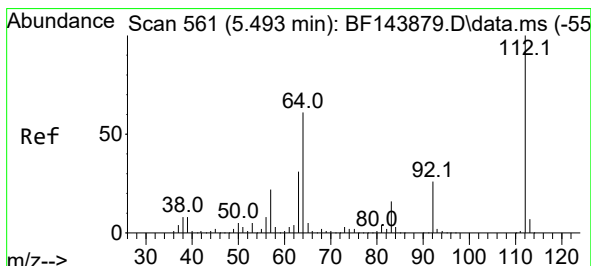
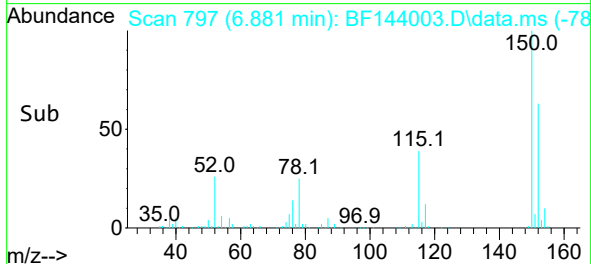
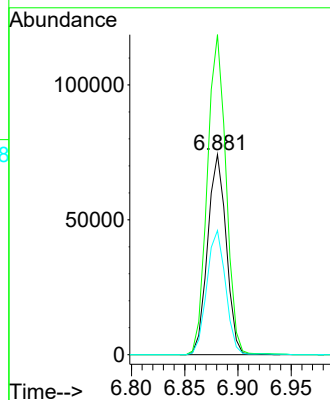
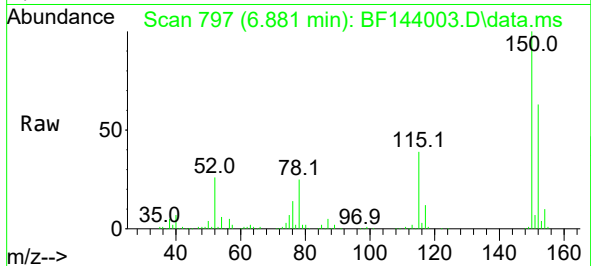




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.881 min Scan# 797  
Delta R.T. -0.005 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

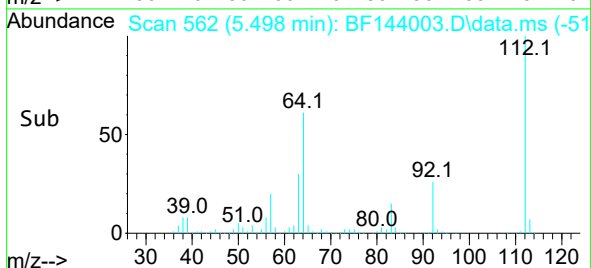
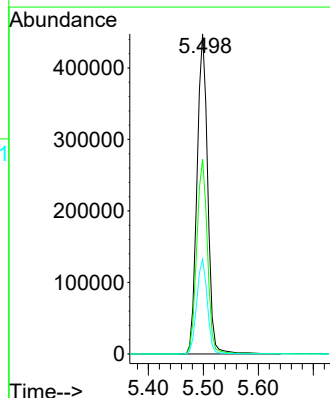
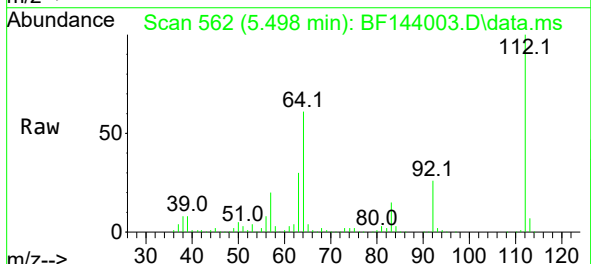
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-222

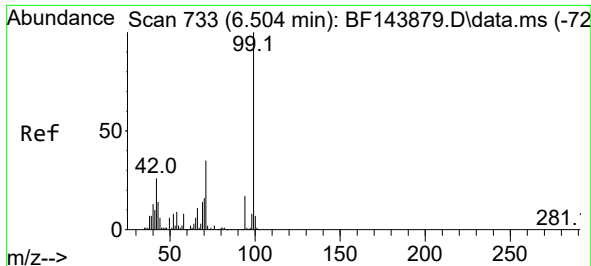
Tgt Ion:152 Resp: 90421  
Ion Ratio Lower Upper  
152 100  
150 159.8 124.4 186.6  
115 62.0 48.1 72.1



#5  
2-Fluorophenol  
Concen: 106.17 ng  
RT: 5.498 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion:112 Resp: 604528  
Ion Ratio Lower Upper  
112 100  
64 60.8 49.1 73.7  
63 29.6 24.5 36.7

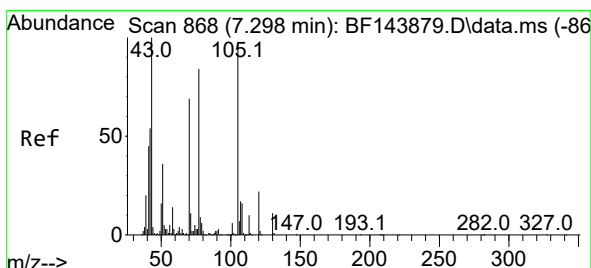
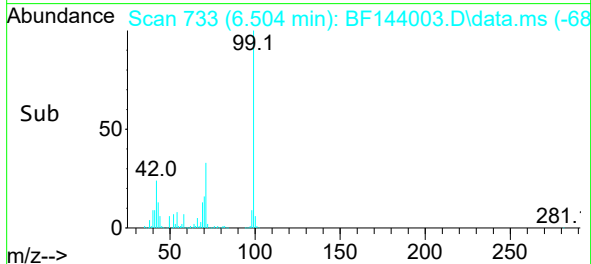
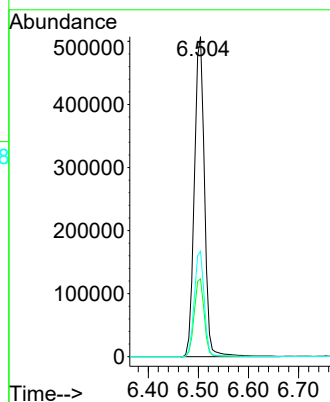
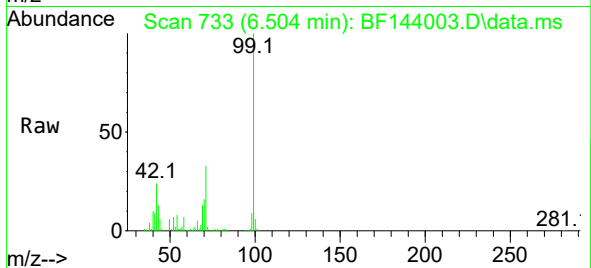




#7  
Phenol-d6  
Concen: 104.66 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

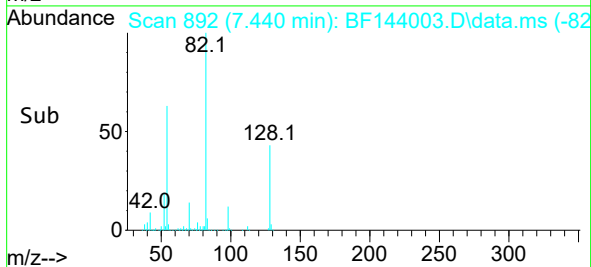
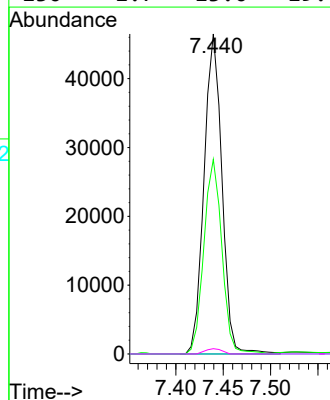
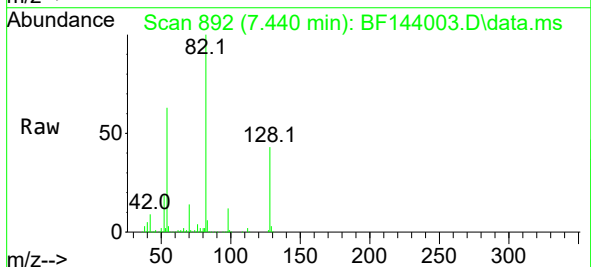
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-222

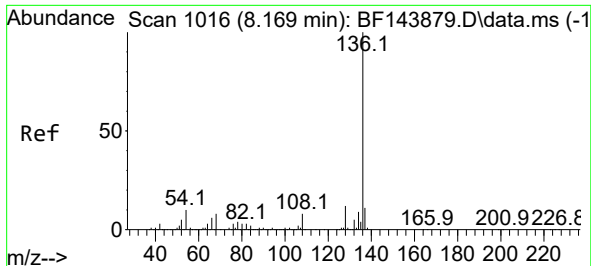
Tgt Ion: 99 Resp: 710356  
Ion Ratio Lower Upper  
99 100  
42 24.3 21.0 31.4  
71 32.9 27.8 41.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 13.14 ng  
RT: 7.440 min Scan# 892  
Delta R.T. 0.124 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion: 70 Resp: 61042  
Ion Ratio Lower Upper  
70 100  
42 60.8 62.8 94.2#  
101 0.0 6.7 10.1#  
130 1.7 13.0 19.4#



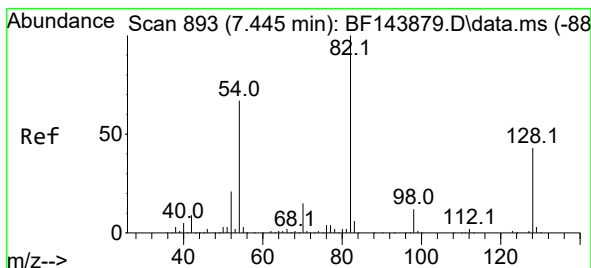
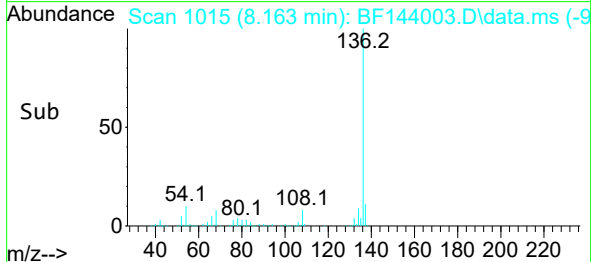
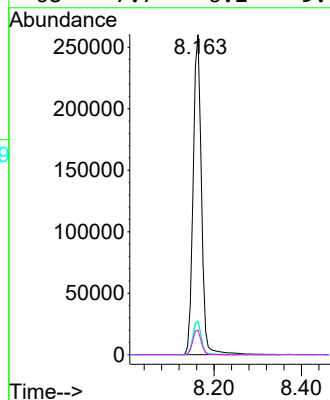
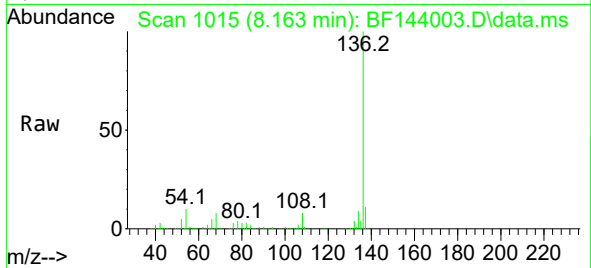


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.163 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-222

Tgt Ion:136 Resp: 344796

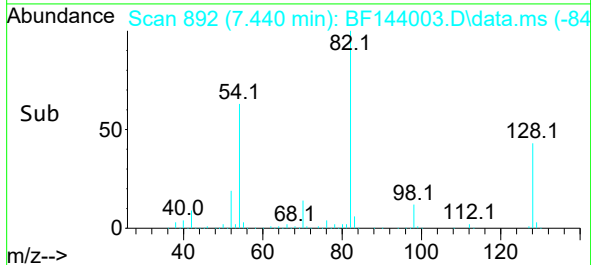
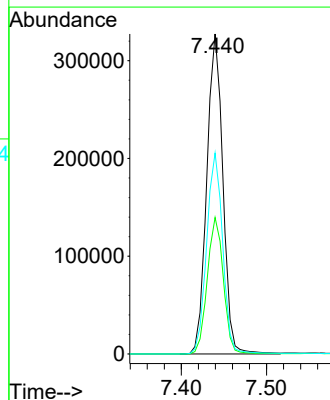
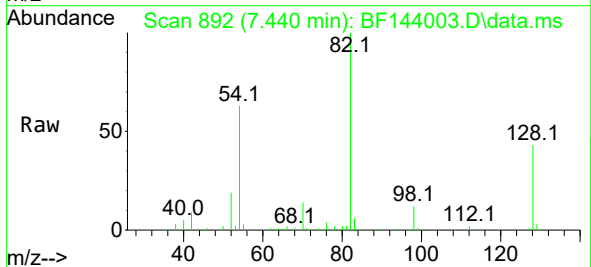
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.5  | 8.5   | 12.7  |
| 54  | 10.3  | 8.2   | 12.4  |
| 68  | 7.7   | 6.2   | 9.4   |

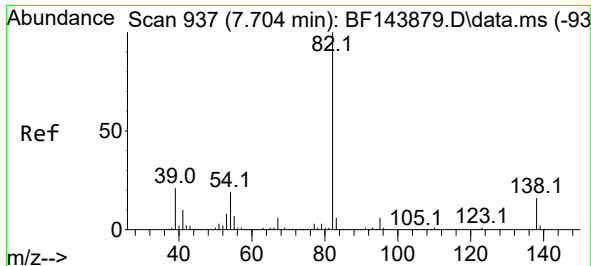


#23  
Nitrobenzene-d5  
Concen: 75.76 ng  
RT: 7.440 min Scan# 892  
Delta R.T. -0.017 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion: 82 Resp: 429959

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 42.7  | 34.0  | 51.0  |
| 54  | 62.8  | 53.2  | 79.8  |

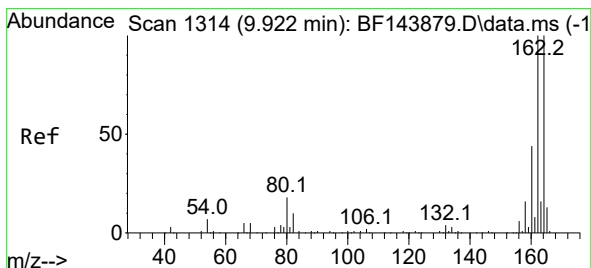
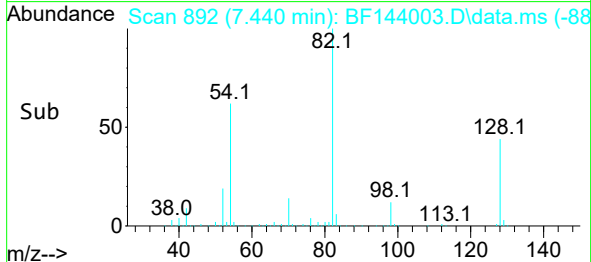
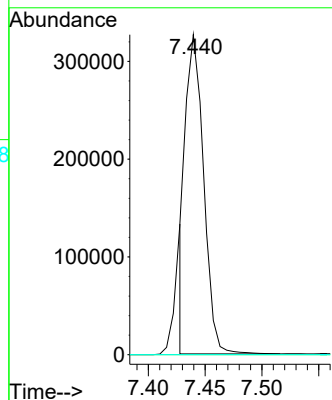
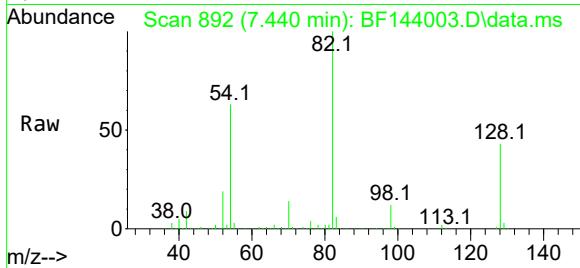




#25  
Isophorone  
Concen: 30.10 ng  
RT: 7.440 min Scan# 89  
Delta R.T. -0.282 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

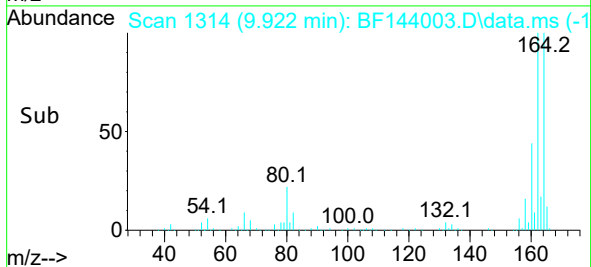
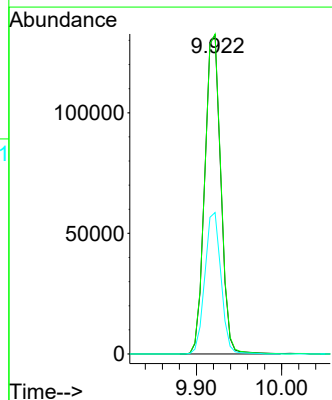
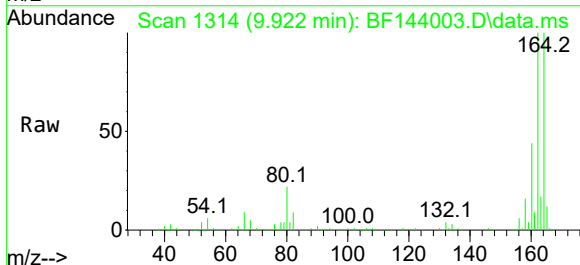
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VNJ-222

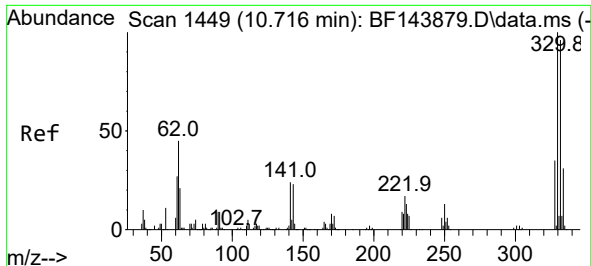
Tgt Ion: 82 Resp: 360235  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.1 7.7#  
138 0.0 12.9 19.3#



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.005 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion:164 Resp: 173323  
Ion Ratio Lower Upper  
164 100  
162 100.3 80.2 120.2  
160 44.3 35.4 53.0

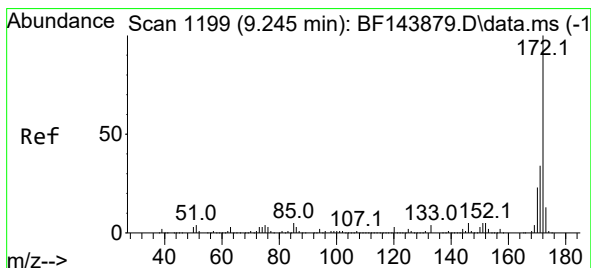
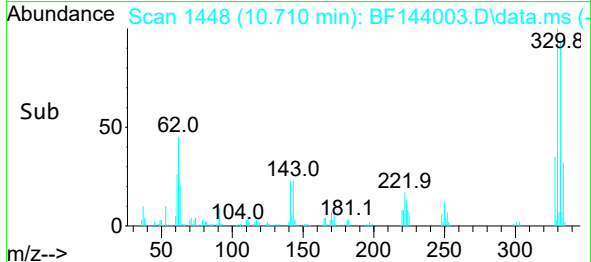
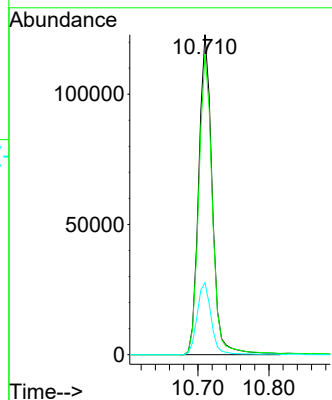
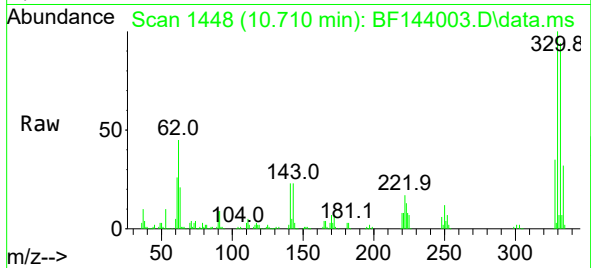




#42  
2,4,6-Tribromophenol  
Concen: 94.32 ng  
RT: 10.710 min Scan# 1449  
Delta R.T. -0.012 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

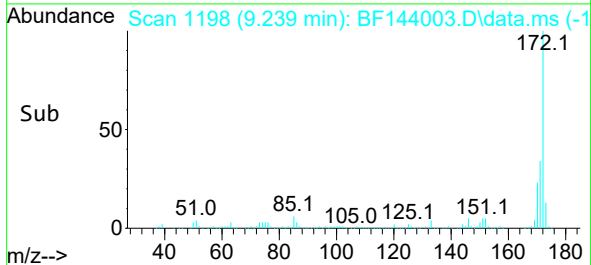
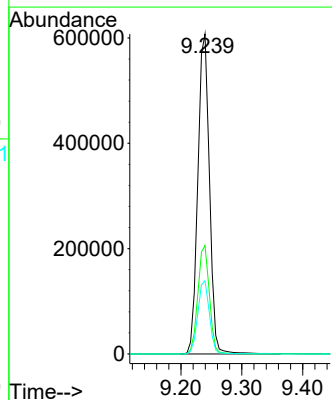
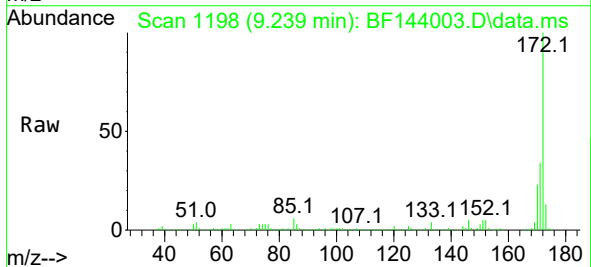
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ClientSampleId :  
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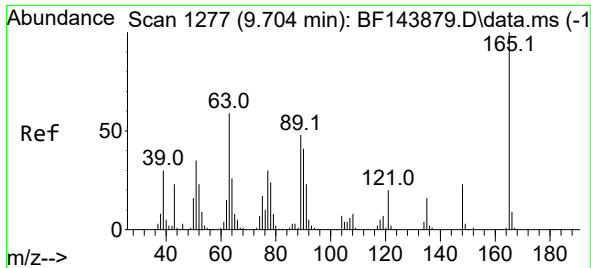
Tgt Ion:330 Resp: 162827  
Ion Ratio Lower Upper  
330 100  
332 94.6 76.9 115.3  
141 23.5 20.2 30.4



#45  
2-Fluorobiphenyl  
Concen: 73.71 ng  
RT: 9.239 min Scan# 1198  
Delta R.T. -0.012 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion:172 Resp: 805133  
Ion Ratio Lower Upper  
172 100  
171 33.9 27.4 41.0  
170 22.9 18.6 28.0

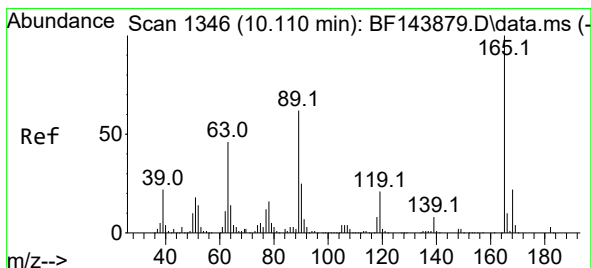
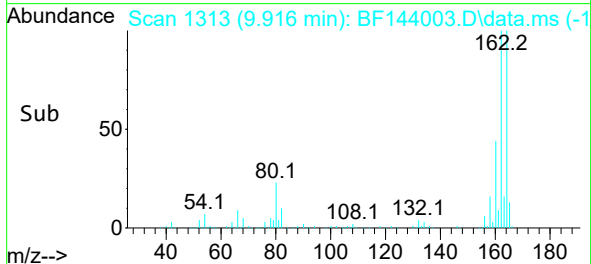
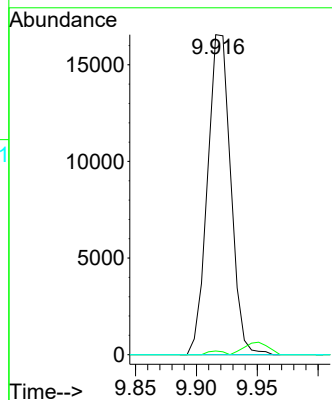
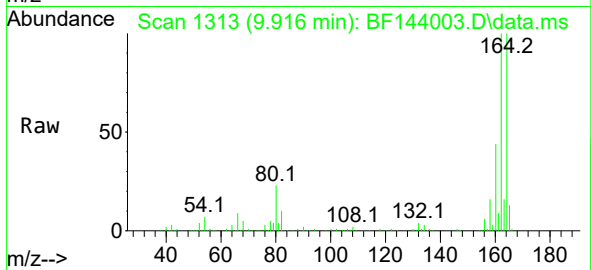




#51  
2,6-Dinitrotoluene  
Concen: 10.78 ng  
RT: 9.916 min Scan# 11  
Delta R.T. 0.200 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

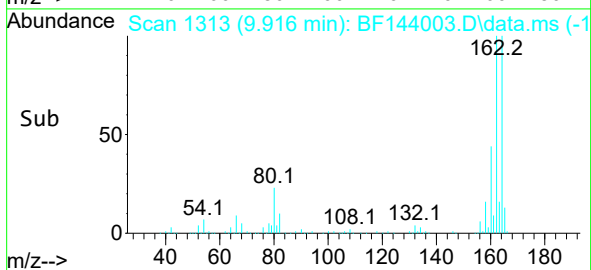
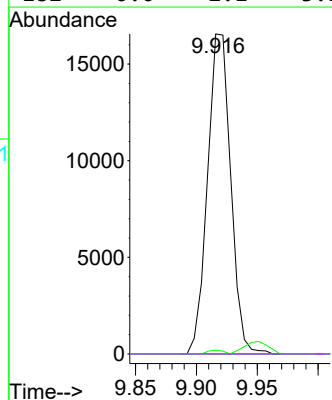
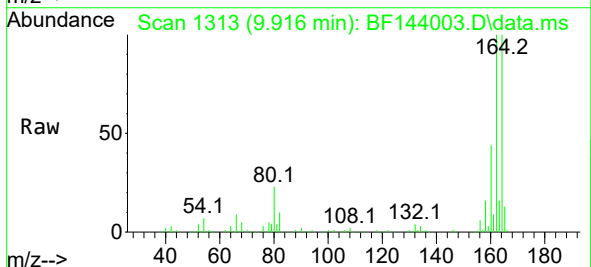
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-222

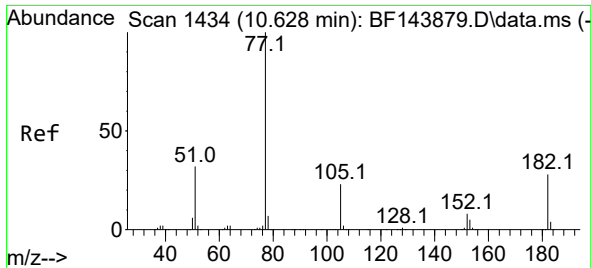
Tgt Ion:165 Resp: 22009  
Ion Ratio Lower Upper  
165 100  
63 1.2 47.3 70.9#  
89 0.0 38.2 57.4#



#57  
2,4-Dinitrotoluene  
Concen: 7.93 ng  
RT: 9.916 min Scan# 1313  
Delta R.T. -0.200 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion:165 Resp: 22009  
Ion Ratio Lower Upper  
165 100  
63 1.2 37.2 55.8#  
89 0.0 49.4 74.2#  
182 0.0 2.1 3.1#

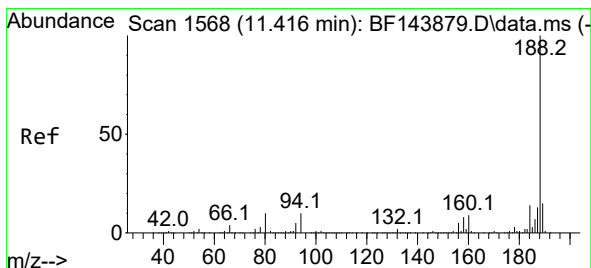
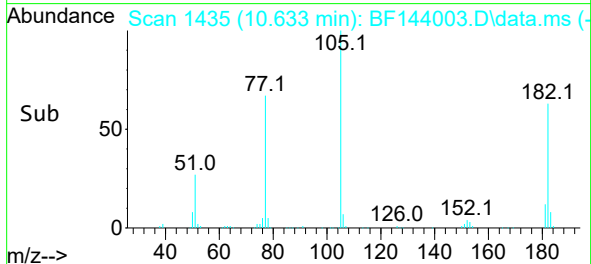
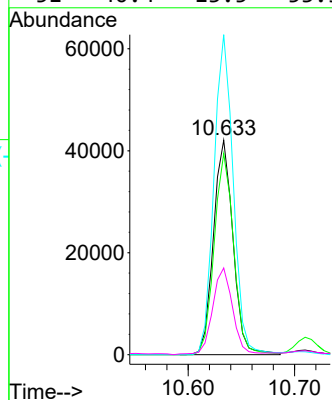
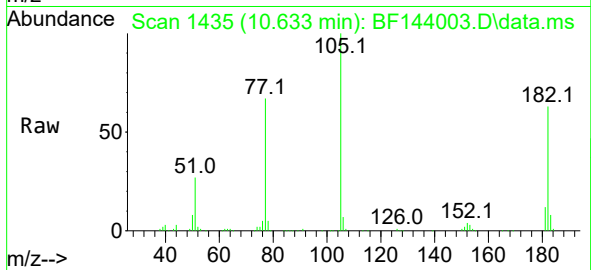




#63  
 Azobenzene  
 Concen: 5.04 ng  
 RT: 10.633 min Scan# 14  
 Delta R.T. 0.000 min  
 Lab File: BF144003.D  
 Acq: 20 Oct 2025 17:25

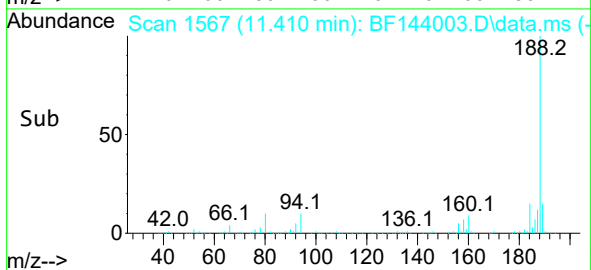
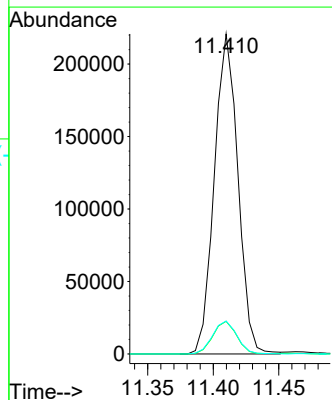
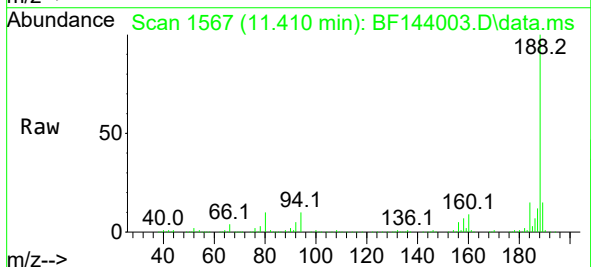
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-222

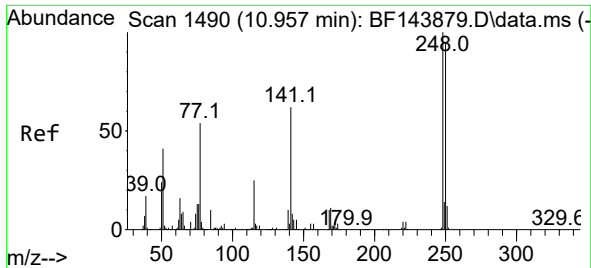
Tgt Ion: 77 Resp: 53888  
 Ion Ratio Lower Upper  
 77 100  
 182 93.8 7.3 47.3#  
 105 149.2 3.0 43.0#  
 51 40.4 13.5 53.5



#64  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.410 min Scan# 1567  
 Delta R.T. -0.006 min  
 Lab File: BF144003.D  
 Acq: 20 Oct 2025 17:25

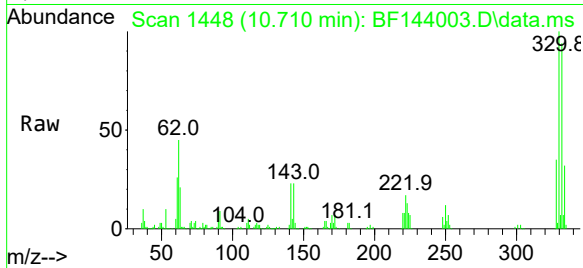
Tgt Ion:188 Resp: 276079  
 Ion Ratio Lower Upper  
 188 100  
 94 10.2 7.8 11.6  
 80 10.3 7.9 11.9



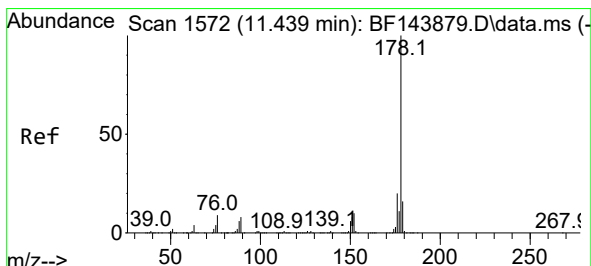
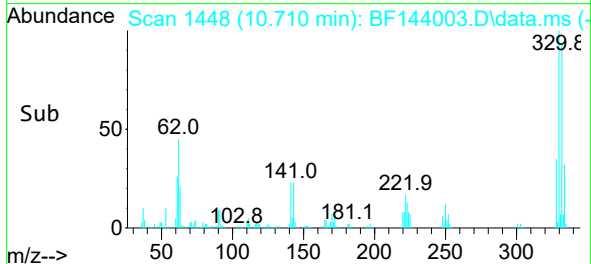
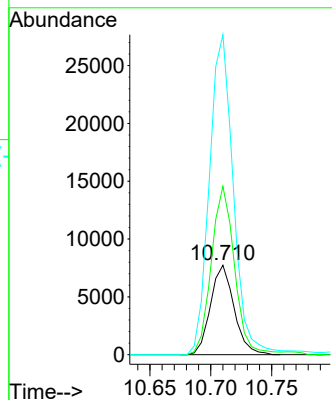


#67  
4-Bromophenyl-phenylether  
Concen: 3.42 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.253 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-222

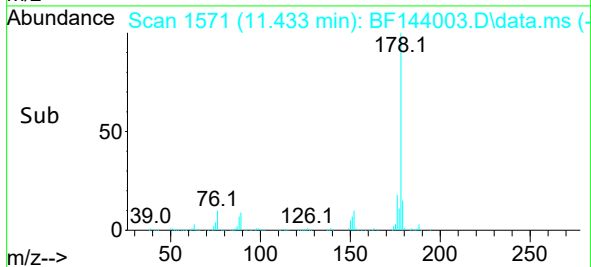
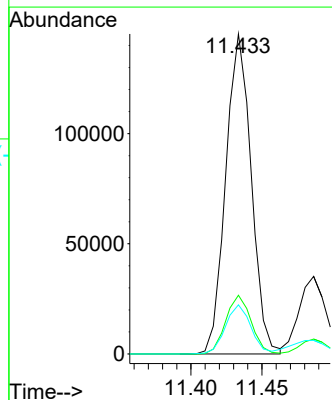
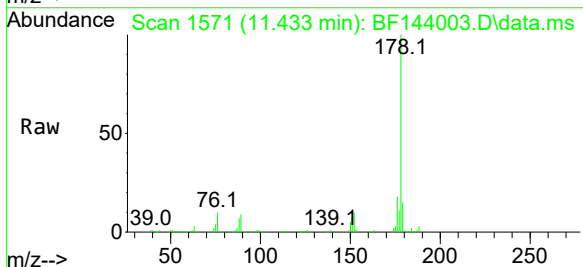


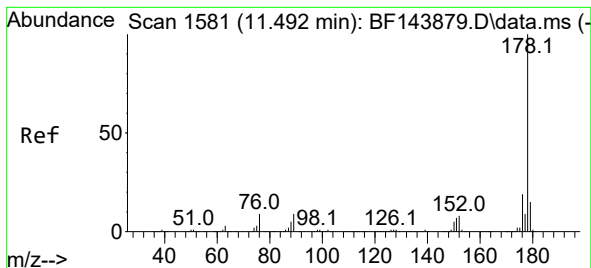
Tgt Ion:248 Resp: 10431  
Ion Ratio Lower Upper  
248 100  
250 188.1 76.3 114.5#  
141 357.7 49.7 74.5#



#71  
Phenanthrene  
Concen: 13.54 ng  
RT: 11.433 min Scan# 1571  
Delta R.T. -0.012 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion:178 Resp: 181246  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.9 23.9  
179 15.4 12.4 18.6





#72

Anthracene

Concen: 3.47 ng

RT: 11.486 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA\_F

ClientSampleId :

VNJ-222

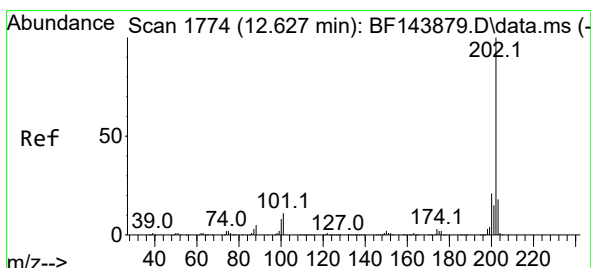
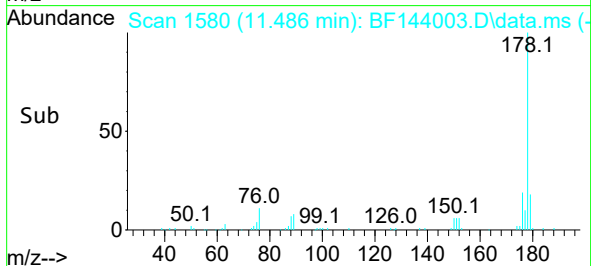
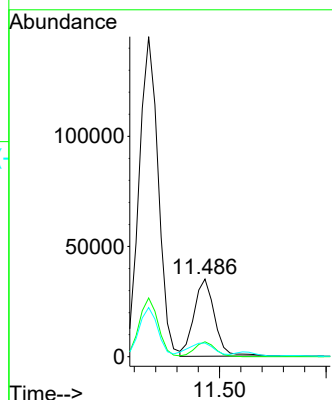
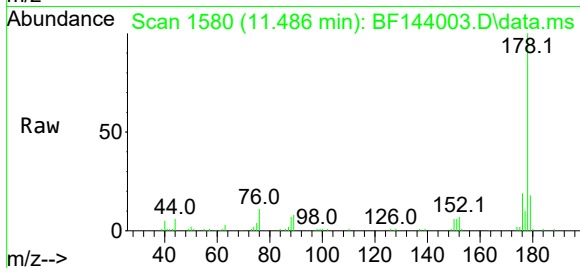
Tgt Ion:178 Resp: 46972

Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

179 17.6 12.2 18.2



#75

Fluoranthene

Concen: 19.37 ng

RT: 12.627 min Scan# 1774

Delta R.T. -0.006 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

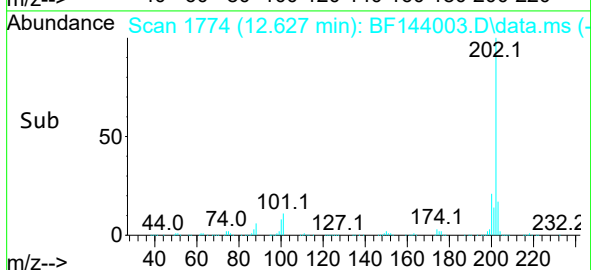
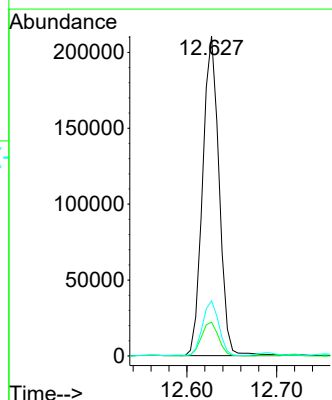
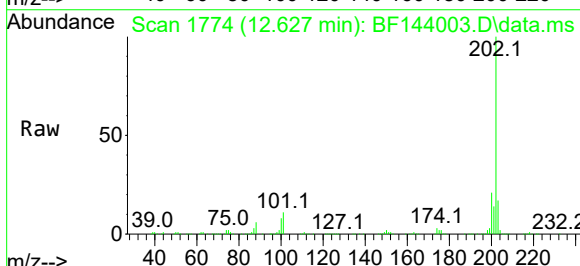
Tgt Ion:202 Resp: 267794

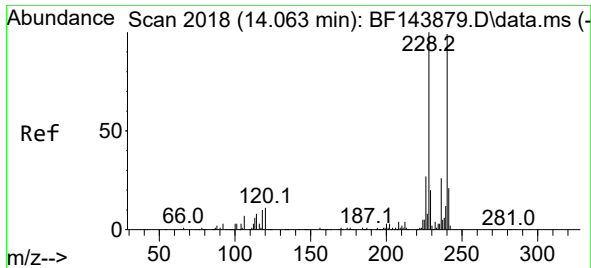
Ion Ratio Lower Upper

202 100

101 10.6 0.0 30.7

203 17.2 0.0 37.8

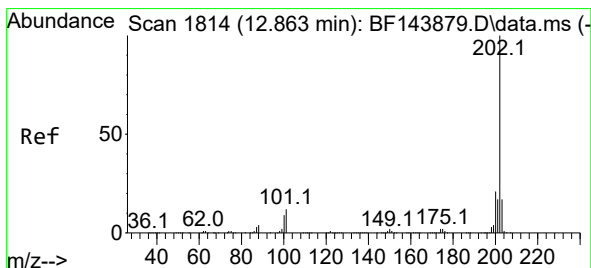
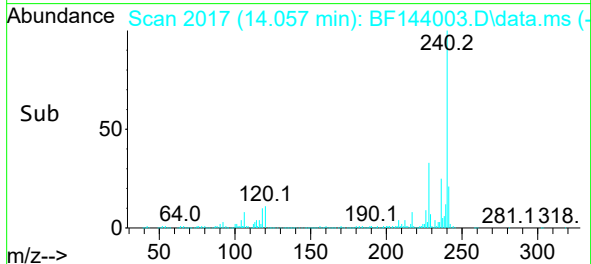
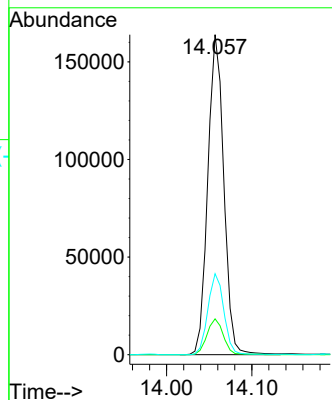
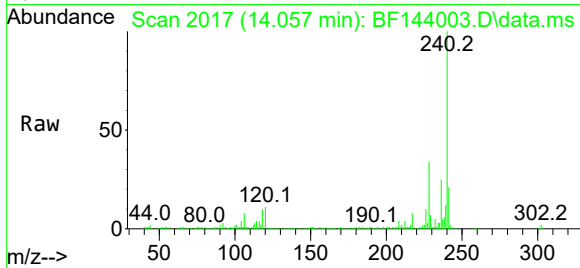




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.057 min Scan# 20  
Delta R.T. -0.011 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

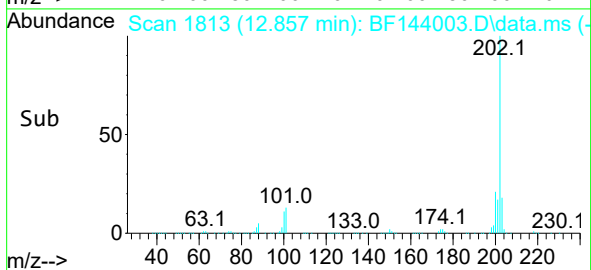
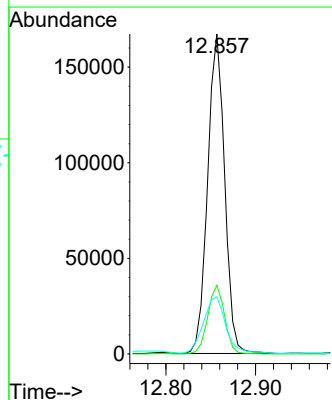
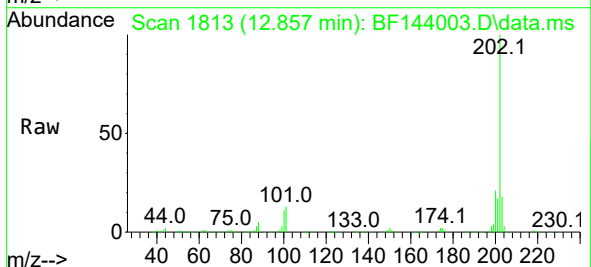
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-222

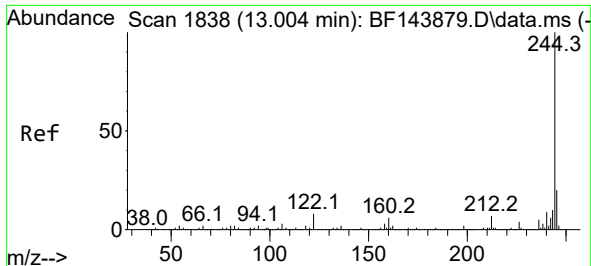
Tgt Ion:240 Resp: 213673  
Ion Ratio Lower Upper  
240 100  
120 11.2 8.6 13.0  
236 25.3 21.1 31.7



#78  
Pyrene  
Concen: 12.35 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. -0.006 min  
Lab File: BF144003.D  
Acq: 20 Oct 2025 17:25

Tgt Ion:202 Resp: 220032  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.6  
203 17.9 13.8 20.6

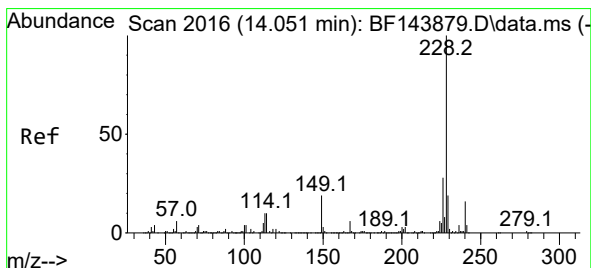
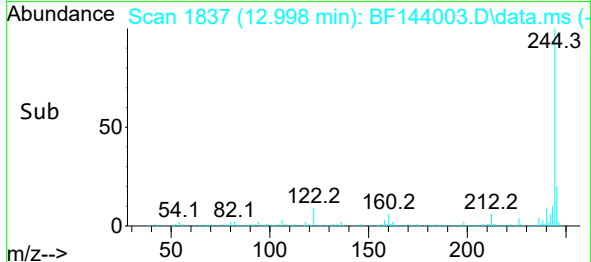
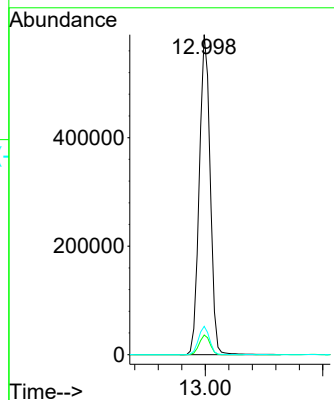
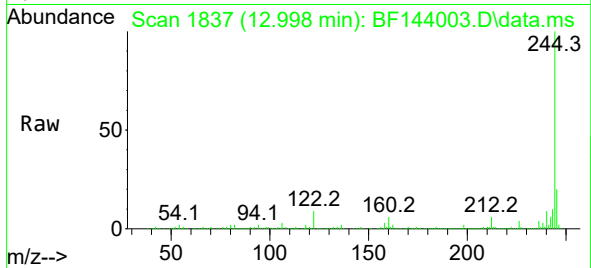




#79  
 Terphenyl-d14  
 Concen: 60.69 ng  
 RT: 12.998 min Scan# 1  
 Delta R.T. -0.012 min  
 Lab File: BF144003.D  
 Acq: 20 Oct 2025 17:25

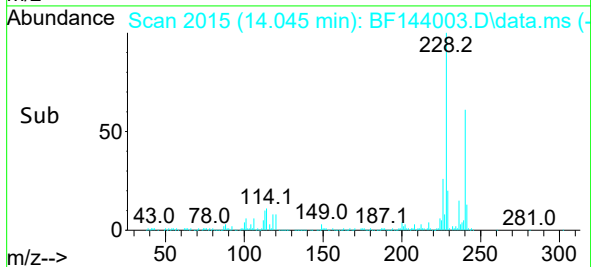
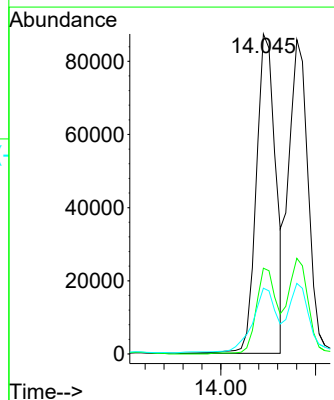
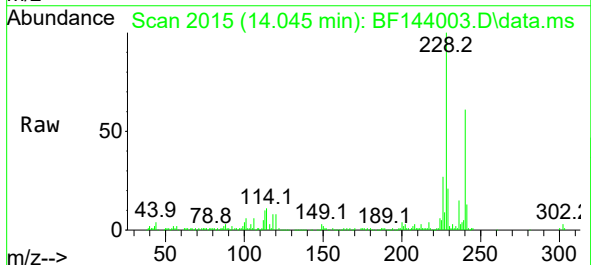
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-222

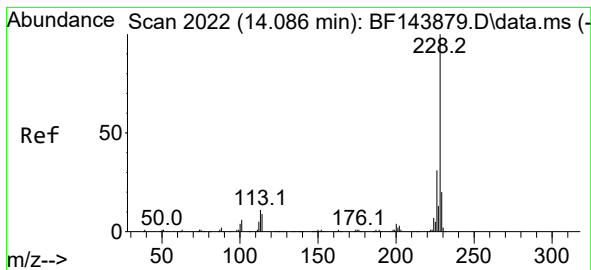
Tgt Ion:244 Resp: 758728  
 Ion Ratio Lower Upper  
 244 100  
 212 6.2 5.4 8.0  
 122 8.8 6.4 9.6



#81  
 Benzo(a)anthracene  
 Concen: 8.86 ng  
 RT: 14.045 min Scan# 2015  
 Delta R.T. -0.012 min  
 Lab File: BF144003.D  
 Acq: 20 Oct 2025 17:25

Tgt Ion:228 Resp: 123930  
 Ion Ratio Lower Upper  
 228 100  
 226 26.8 22.2 33.2  
 229 20.6 15.6 23.4





#83

Chrysene

Concen: 9.39 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.012 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA\_F

ClientSampleId :

VNJ-222

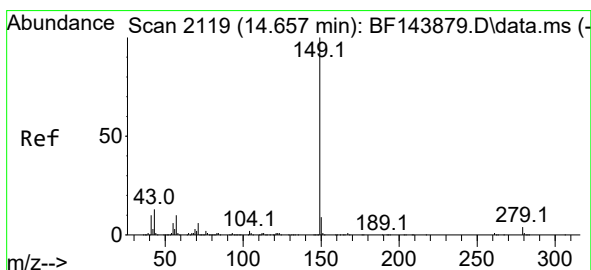
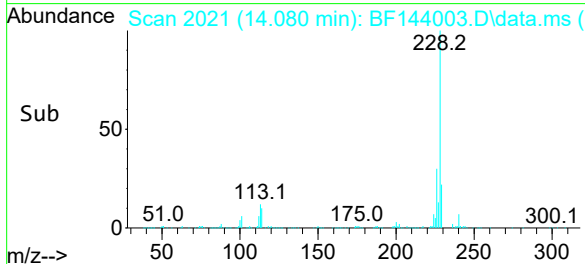
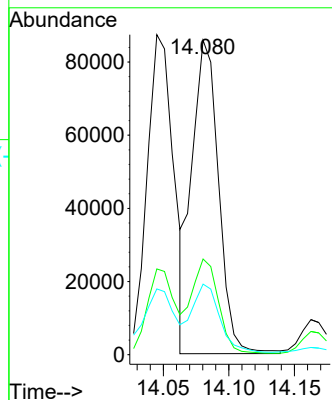
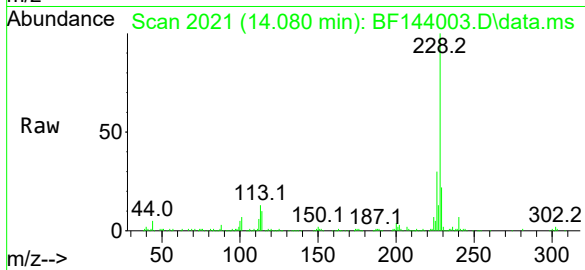
Tgt Ion:228 Resp: 121556

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 22.5 15.9 23.9



#85

Di-n-octyl phthalate

Concen: 2.45 ng

RT: 14.639 min Scan# 2116

Delta R.T. -0.017 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

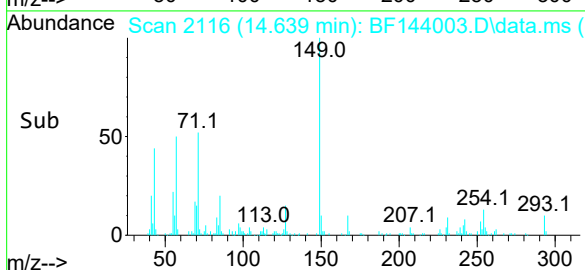
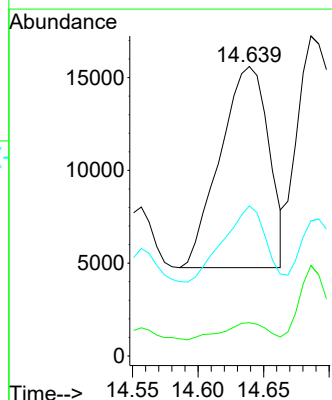
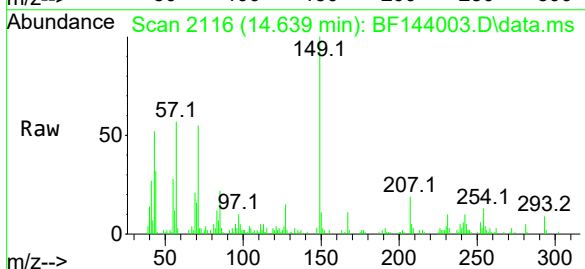
Tgt Ion:149 Resp: 28039

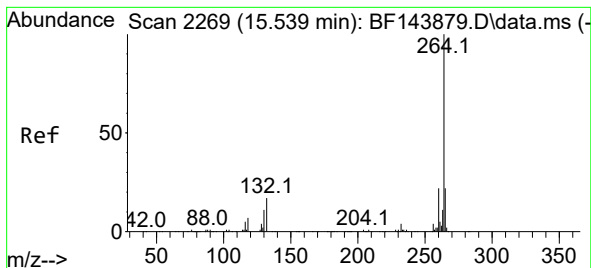
Ion Ratio Lower Upper

149 100

167 7.5 1.1 1.7#

43 32.5 11.0 16.4#





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA\_F

ClientSampleId :

VNJ-222

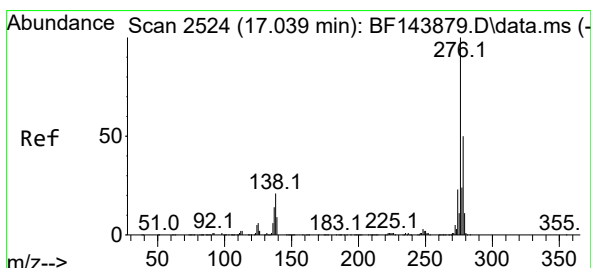
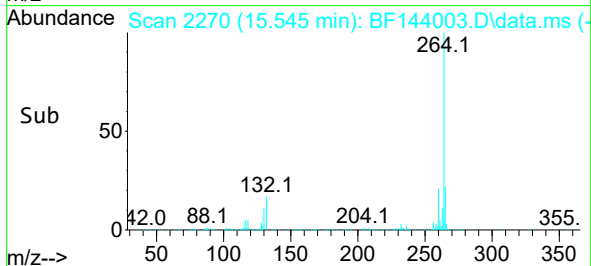
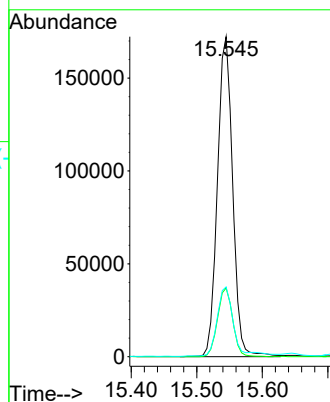
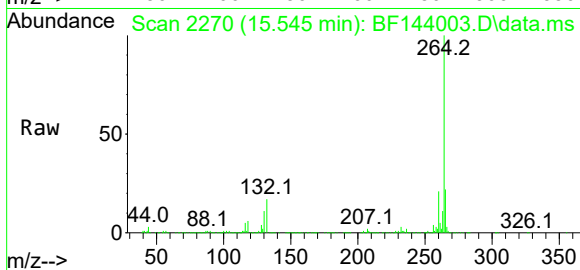
Tgt Ion:264 Resp: 276799

Ion Ratio Lower Upper

264 100

260 21.5 17.8 26.8

265 21.8 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.85 ng

RT: 17.039 min Scan# 2524

Delta R.T. -0.017 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

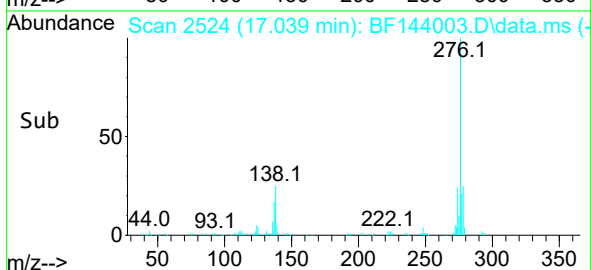
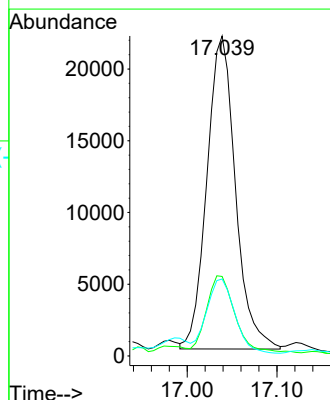
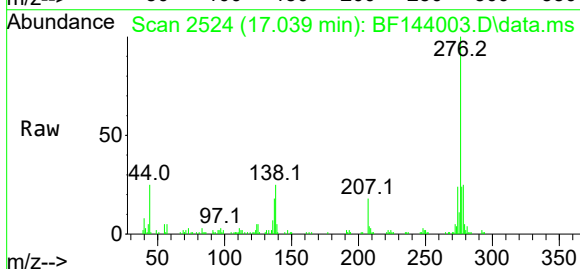
Tgt Ion:276 Resp: 48301

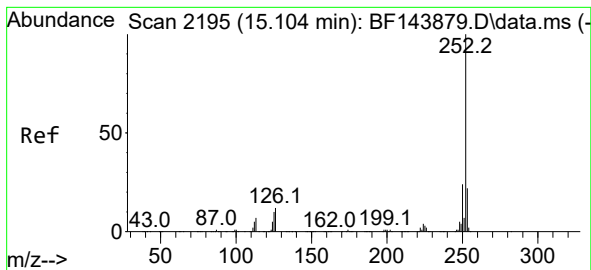
Ion Ratio Lower Upper

276 100

138 24.4 18.2 27.2

277 23.6 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 11.75 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA\_F

ClientSampleId :

VNJ-222

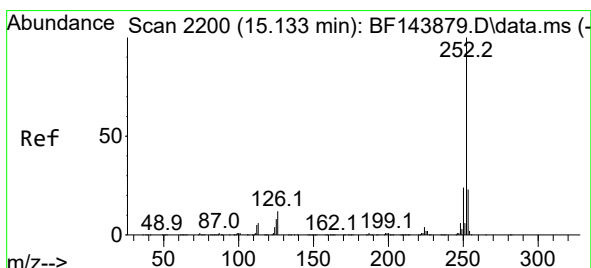
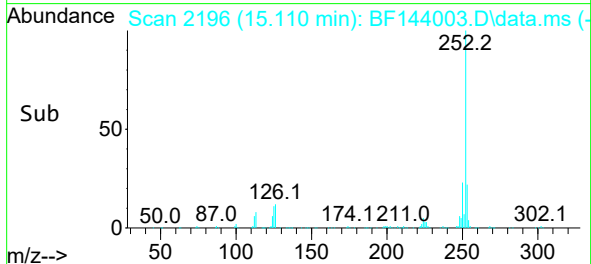
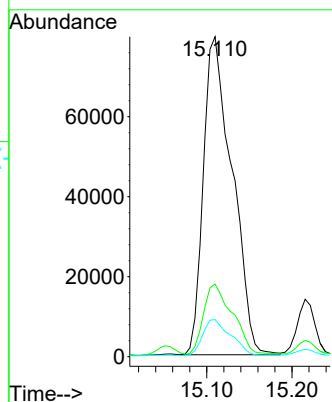
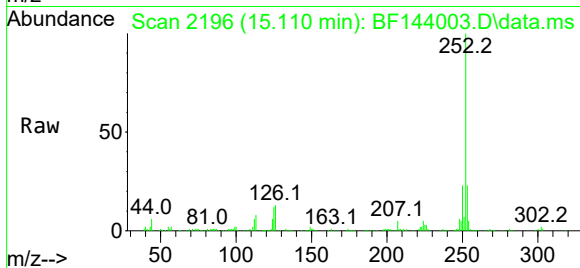
Tgt Ion:252 Resp: 186854

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

125 11.6 7.8 11.6



#89

Benzo(k)fluoranthene

Concen: 12.70 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.035 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

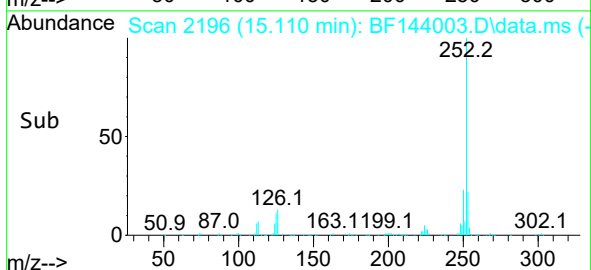
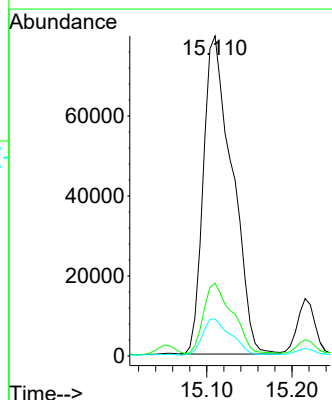
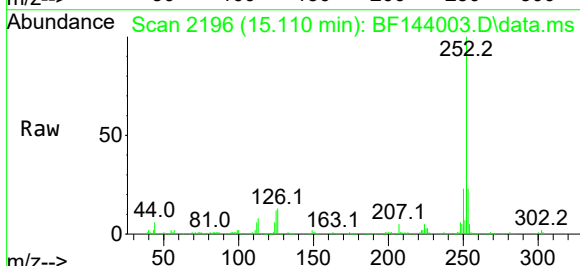
Tgt Ion:252 Resp: 186854

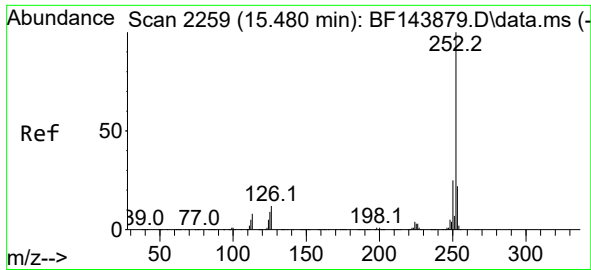
Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

125 11.6 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 6.93 ng

RT: 15.480 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA\_F

ClientSampleId :

VNJ-222

Tgt Ion:252 Resp: 95488

Ion Ratio Lower Upper

252 100

253 21.7 17.3 25.9

125 11.5 7.0 10.4#

