

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100725\
 Data File : BP025948.D
 Acq On : 07 Oct 2025 18:40
 Operator : RC/JU
 Sample : Q3289-03
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 VNJ-261

Quant Time: Oct 08 01:21:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 19:16:54 2025
 Response via : Initial Calibration

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

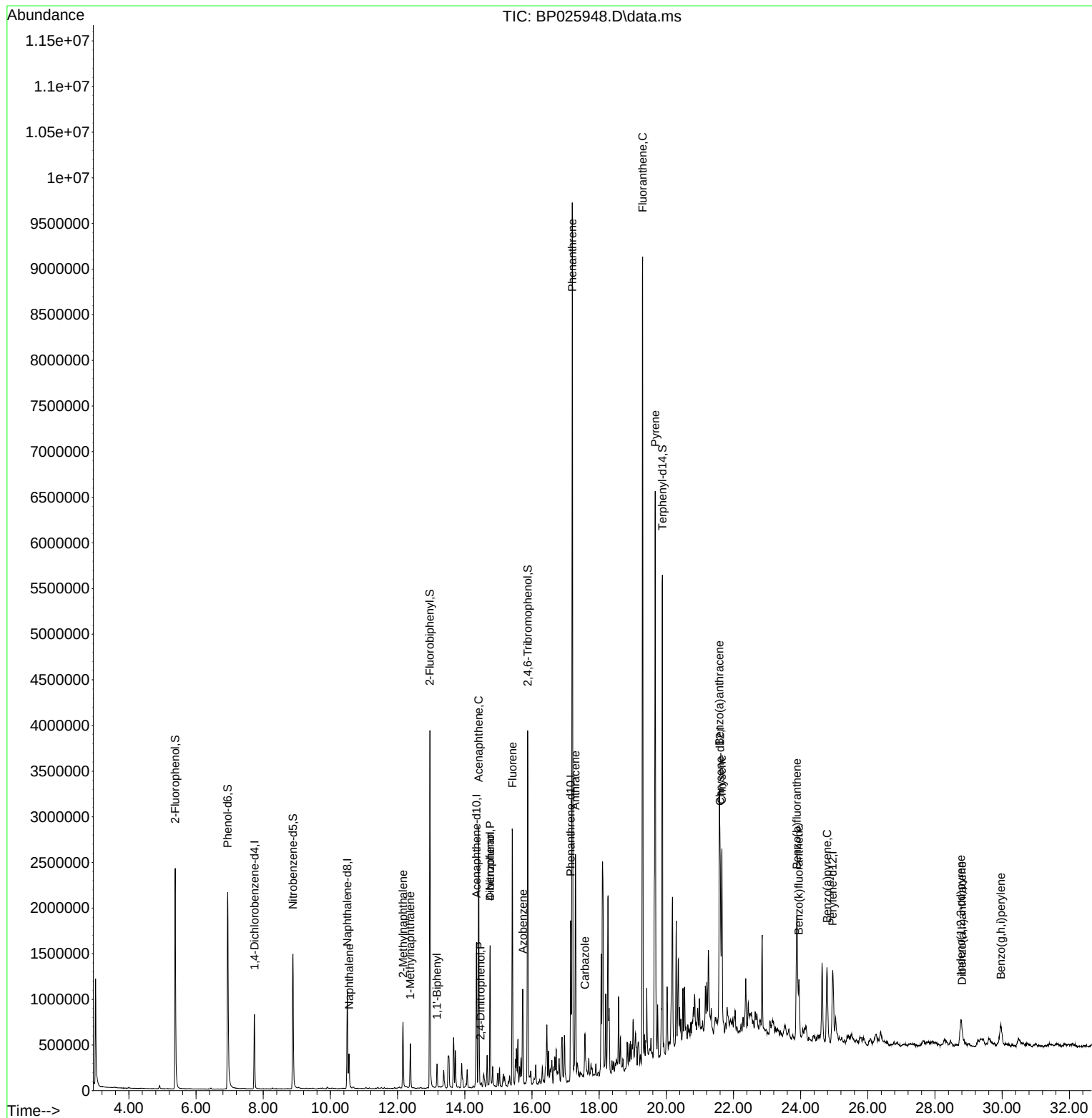
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.737	152	236508	20.000	ng	-0.02
21) Naphthalene-d8	10.501	136	956958	20.000	ng	-0.02
39) Acenaphthene-d10	14.348	164	613841	20.000	ng	-0.03
64) Phenanthrene-d10	17.154	188	1143362	20.000	ng	-0.03
76) Chrysene-d12	21.601	240	847062	20.000	ng	-0.04
86) Perylene-d12	24.954	264	933850	20.000	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.378	112	1233868	84.179	ng	0.00
7) Phenol-d6	6.943	99	1624262	83.370	ng	0.00
23) Nitrobenzene-d5	8.884	82	1022052	47.111	ng	-0.02
42) 2,4,6-Tribromophenol	15.872	330	655966	85.675	ng	-0.04
45) 2-Fluorobiphenyl	12.960	172	2181304	47.315	ng	-0.03
79) Terphenyl-d14	19.883	244	2642857	56.129	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.554	128	333983	6.473	ng	100
37) 2-Methylnaphthalene	12.160	142	394103	11.891	ng	98
38) 1-Methylnaphthalene	12.378	142	239877	6.787	ng	99
46) 1,1'-Biphenyl	13.172	154	149766	3.324	ng	99
52) Acenaphthene	14.413	154	1021350	30.129	ng	99
54) 2,4-Dinitrophenol	14.466	184	53	4.832	ng	# 1
55) Dibenzofuran	14.754	168	876417	15.863	ng	97
56) 4-Nitrophenol	14.754	139	333293	39.473	ng	# 4
58) Fluorene	15.419	166	1214837	27.652	ng	100
63) Azobenzene	15.731	77	218438	4.752	ng	# 1
71) Phenanthrene	17.201	178	6019686	92.813	ng	99
72) Anthracene	17.295	178	1735543	26.373	ng	100
73) Carbazole	17.578	167	321431	5.254	ng	99
75) Fluoranthene	19.295	202	5314402	68.321	ng	99
78) Pyrene	19.672	202	4263018	75.424	ng	99
81) Benzo(a)anthracene	21.583	228	1661517	28.651	ng	99
83) Chrysene	21.654	228	1606379	29.059	ng	98
87) Indeno(1,2,3-cd)pyrene	28.771	276	462108	6.805	ng	# 82
88) Benzo(b)fluoranthene	23.889	252	1736518	30.408	ng	99
89) Benzo(k)fluoranthene	23.948	252	550658	9.450	ng	98
90) Benzo(a)pyrene	24.783	252	984577	17.605	ng	99
91) Dibenzo(a,h)anthracene	28.806	278	176646	3.179	ng	96
92) Benzo(g,h,i)perylene	29.959	276	438424	8.022	ng	99

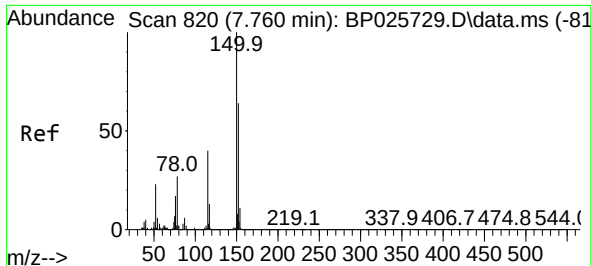
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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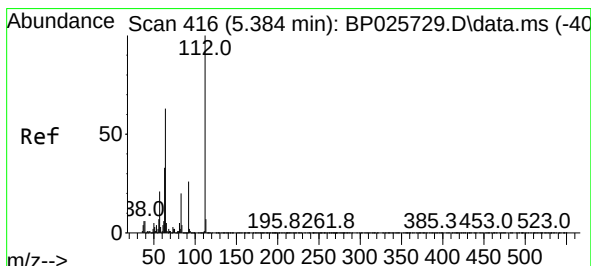
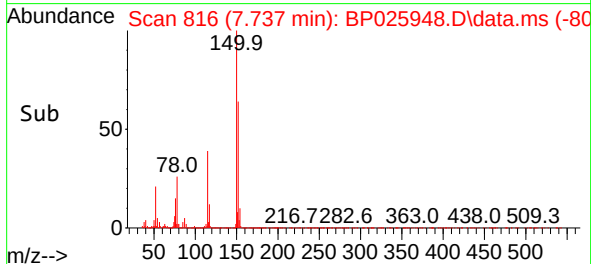
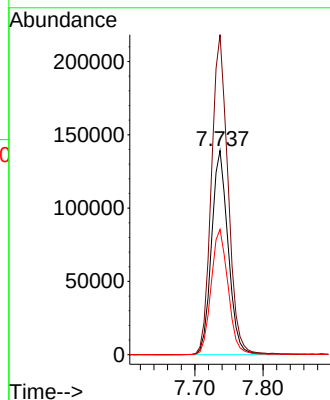
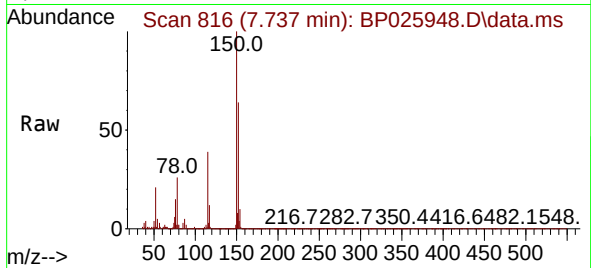




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.737 min Scan# 81
Delta R.T. -0.023 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

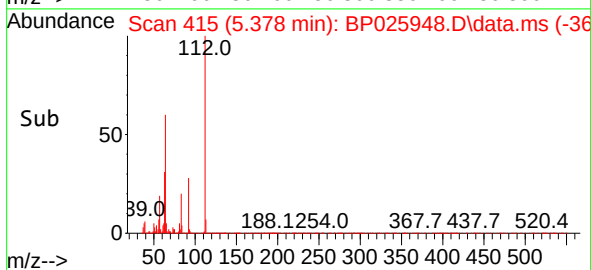
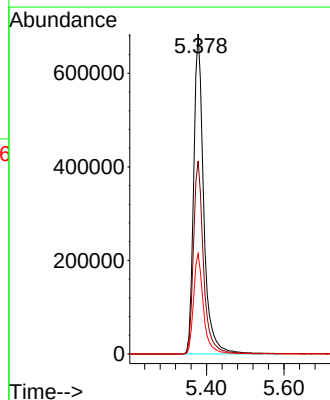
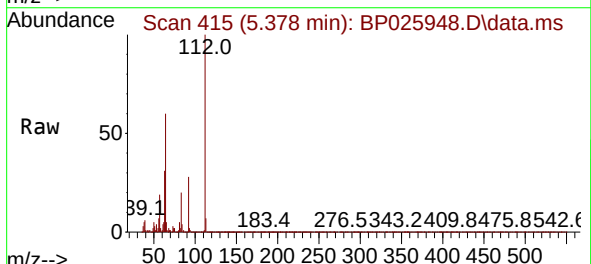
Instrument :
BNA_P
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VNJ-261

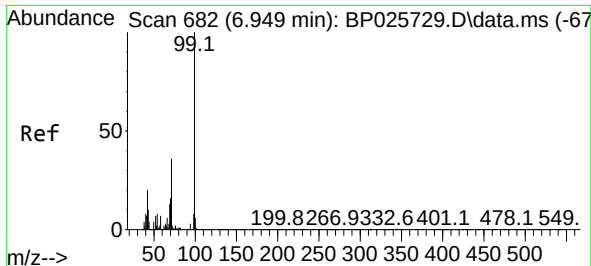
Tgt Ion:152 Resp: 236508
Ion Ratio Lower Upper
152 100
150 156.7 124.3 186.5
115 61.4 50.3 75.5



#5
2-Fluorophenol
Concen: 84.179 ng
RT: 5.378 min Scan# 415
Delta R.T. -0.006 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:112 Resp: 1233868
Ion Ratio Lower Upper
112 100
64 60.3 50.2 75.4
63 31.4 26.7 40.1

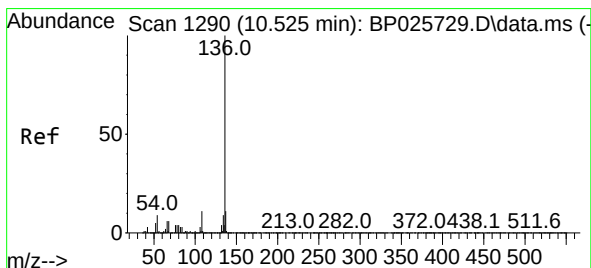
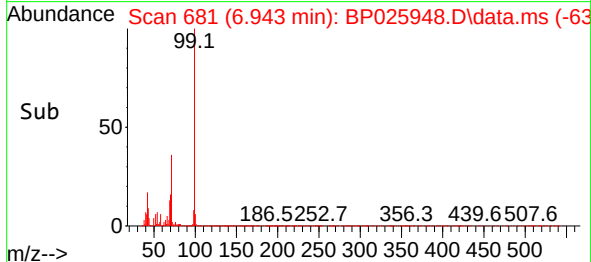
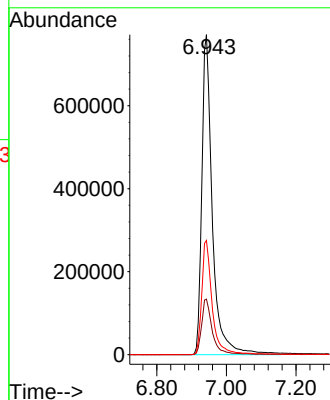
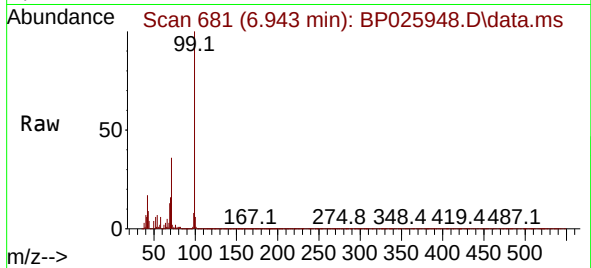




#7
Phenol-d6
Concen: 83.370 ng
RT: 6.943 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

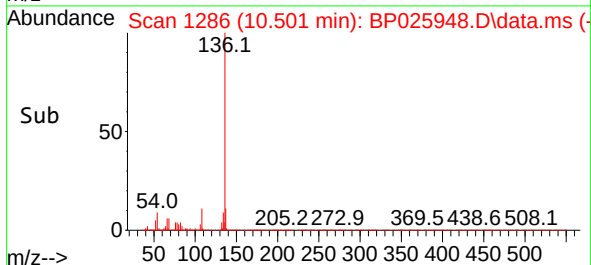
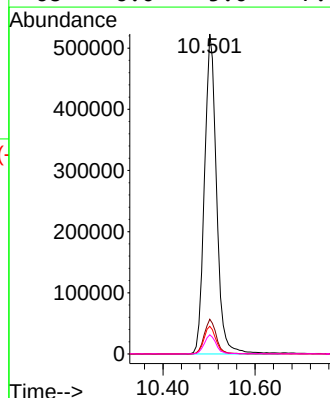
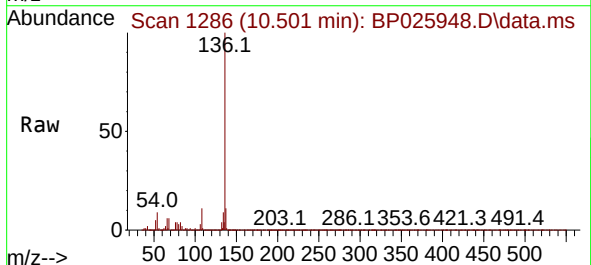
Instrument :
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ClientSampleId :
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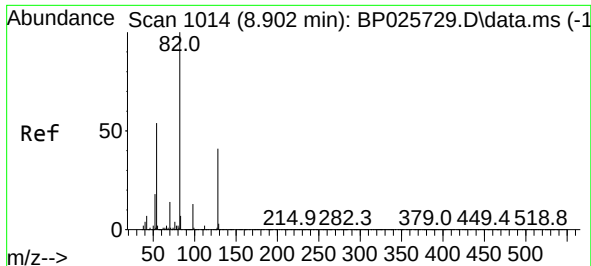
Tgt Ion: 99 Resp: 1624262
Ion Ratio Lower Upper
99 100
42 17.3 15.6 23.4
71 35.7 28.6 43.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.501 min Scan# 1286
Delta R.T. -0.024 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:136 Resp: 956958
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 8.6 7.5 11.3
68 6.0 5.0 7.6

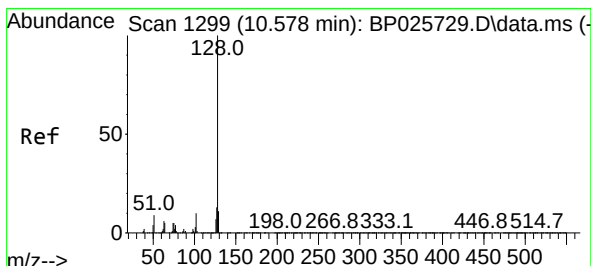
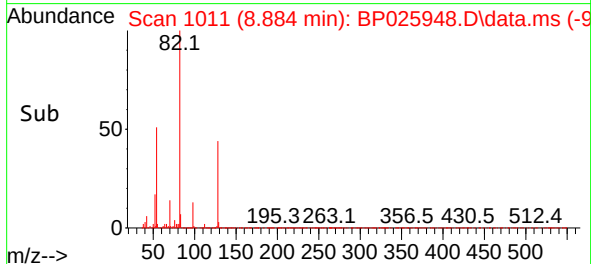
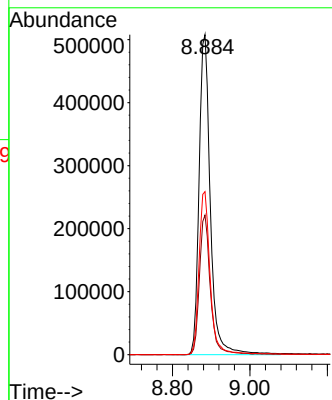
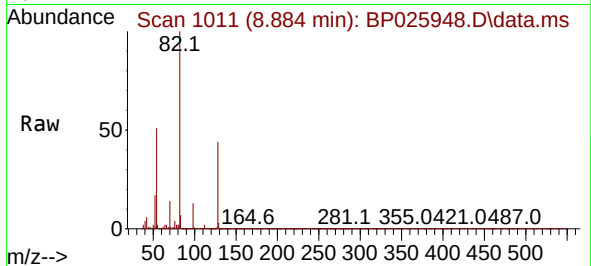




#23
Nitrobenzene-d5
Concen: 47.111 ng
RT: 8.884 min Scan# 1011
Delta R.T. -0.018 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

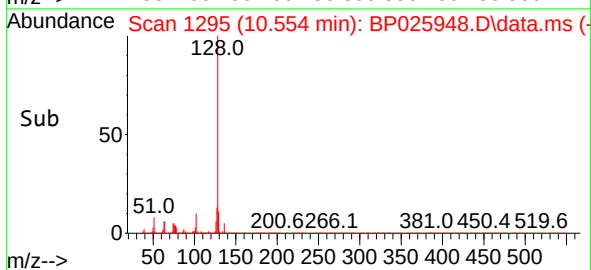
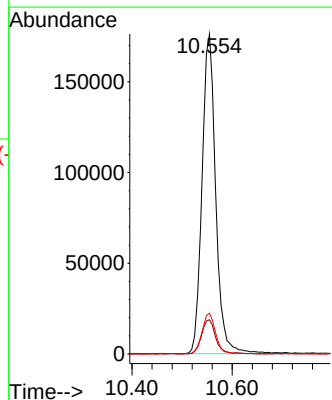
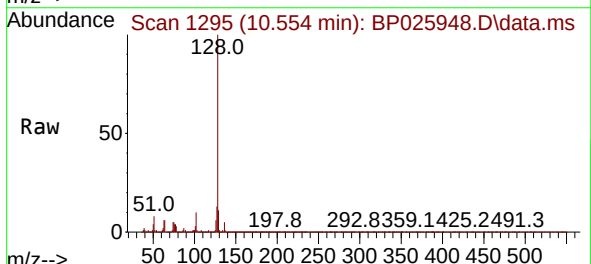
Instrument :
BNA_P
ClientSampleId :
VNJ-261

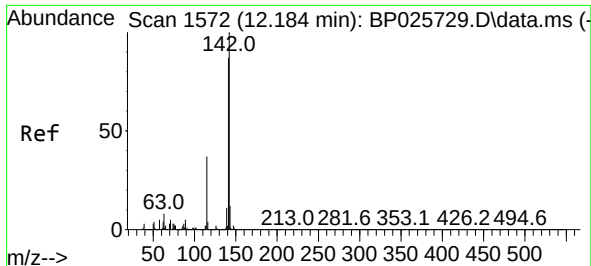
Tgt Ion: 82 Resp: 1022052
Ion Ratio Lower Upper
82 100
128 43.6 32.9 49.3
54 51.0 43.4 65.2



#31
Naphthalene
Concen: 6.473 ng
RT: 10.554 min Scan# 1295
Delta R.T. -0.024 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:128 Resp: 333983
Ion Ratio Lower Upper
128 100
129 10.7 8.6 12.8
127 12.7 10.2 15.4

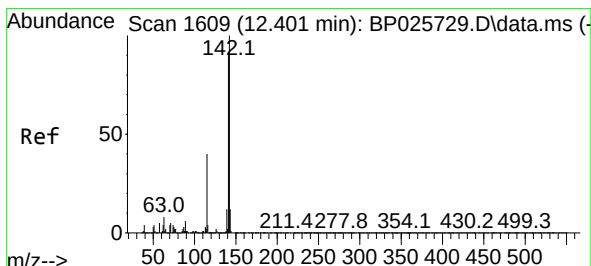
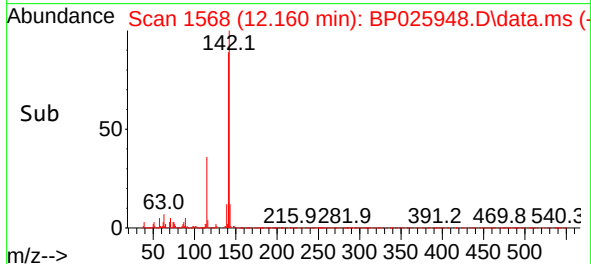
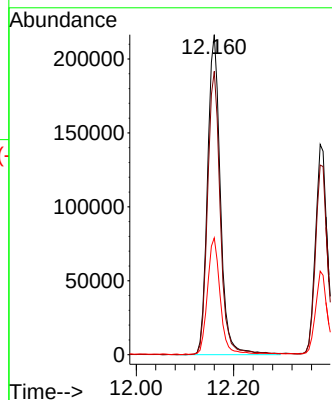
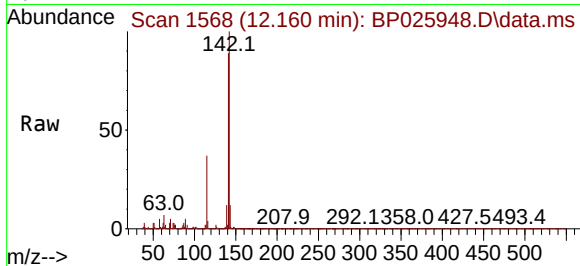




#37
2-Methylnaphthalene
Concen: 11.891 ng
RT: 12.160 min Scan# 11
Delta R.T. -0.024 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

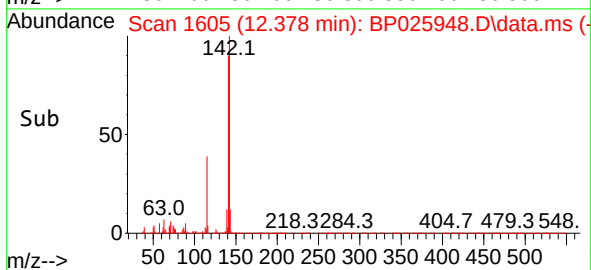
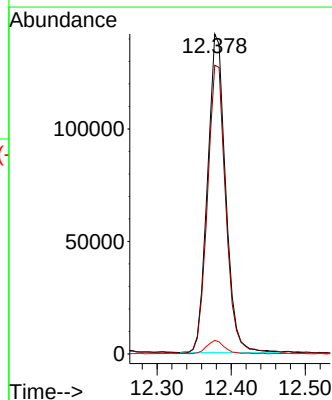
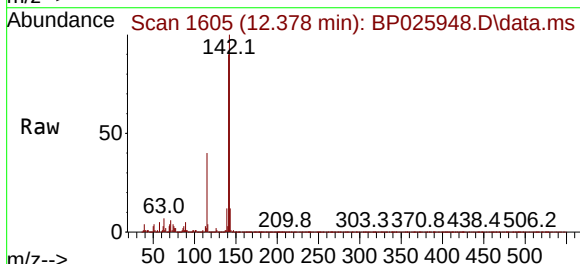
Instrument :
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ClientSampleId :
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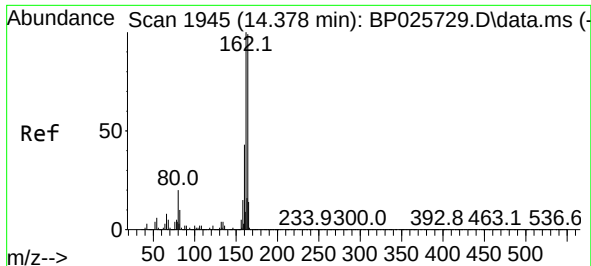
Tgt Ion:142 Resp: 394103
Ion Ratio Lower Upper
142 100
141 88.6 69.6 104.4
115 36.5 30.0 45.0



#38
1-Methylnaphthalene
Concen: 6.787 ng
RT: 12.378 min Scan# 1605
Delta R.T. -0.024 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:142 Resp: 239877
Ion Ratio Lower Upper
142 100
141 90.2 72.7 109.1
116 4.3 3.5 5.3

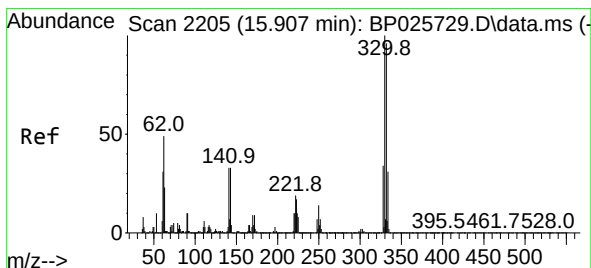
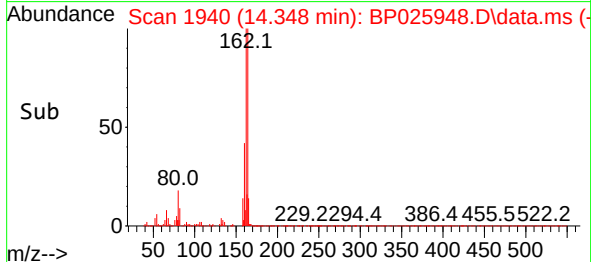
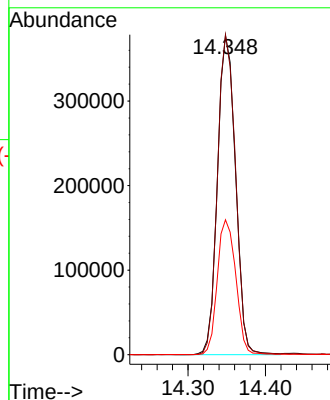
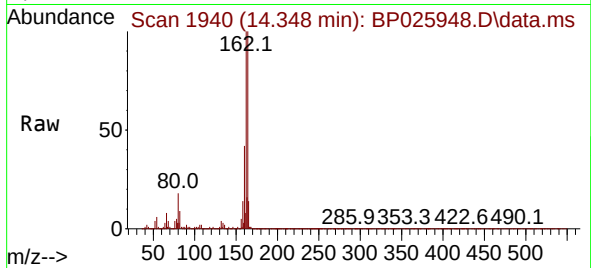




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.348 min Scan# 1940
Delta R.T. -0.029 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

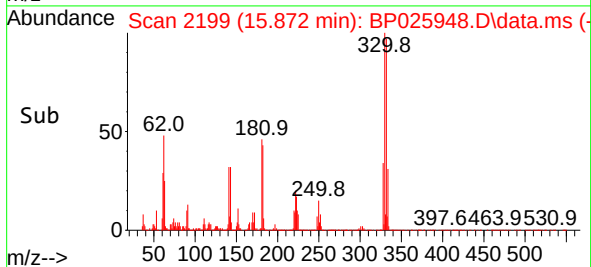
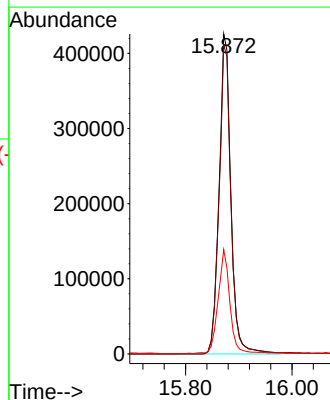
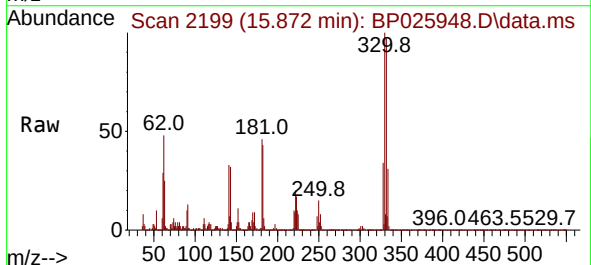
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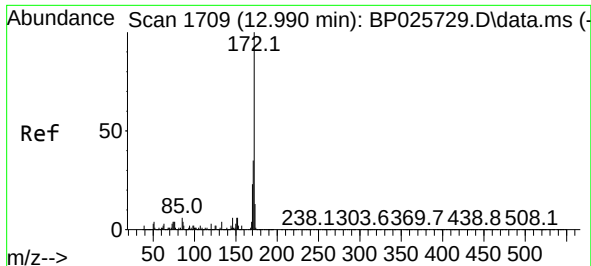
Tgt Ion:164 Resp: 613841
Ion Ratio Lower Upper
164 100
162 100.3 80.6 120.8
160 42.3 35.0 52.6



#42
2,4,6-Tribromophenol
Concen: 85.675 ng
RT: 15.872 min Scan# 2199
Delta R.T. -0.035 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:330 Resp: 655966
Ion Ratio Lower Upper
330 100
332 96.9 76.9 115.3
141 32.8 31.0 46.4

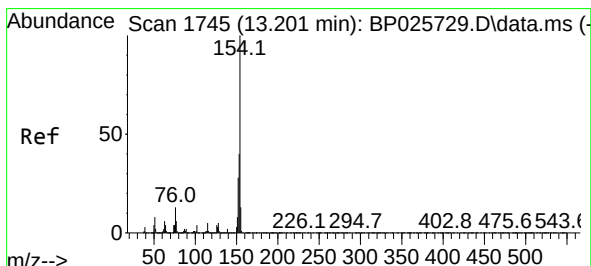
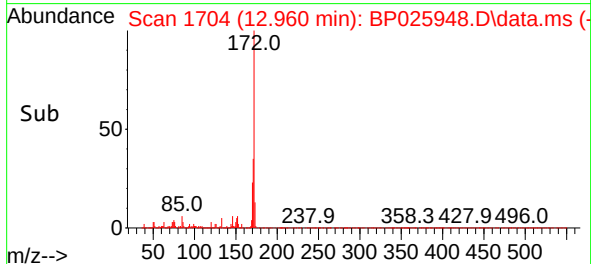
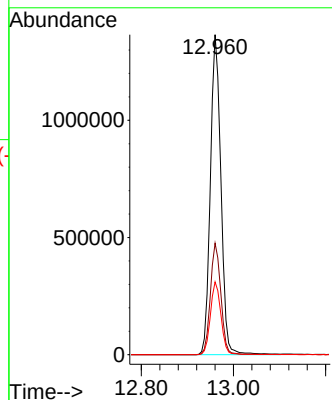
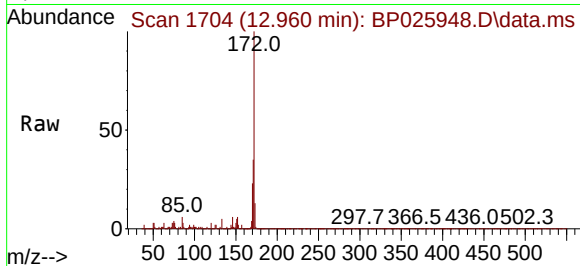




#45
2-Fluorobiphenyl
Concen: 47.315 ng
RT: 12.960 min Scan# 1704
Delta R.T. -0.029 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

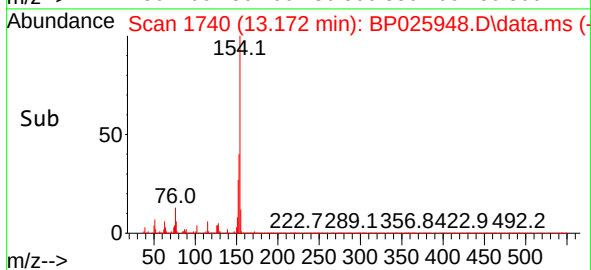
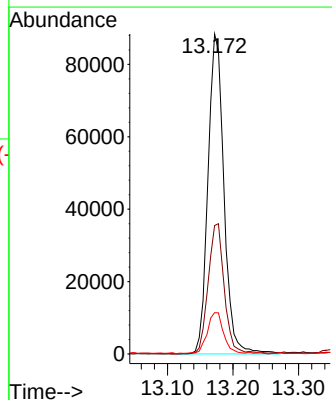
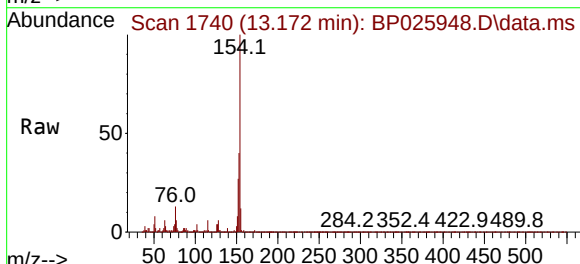
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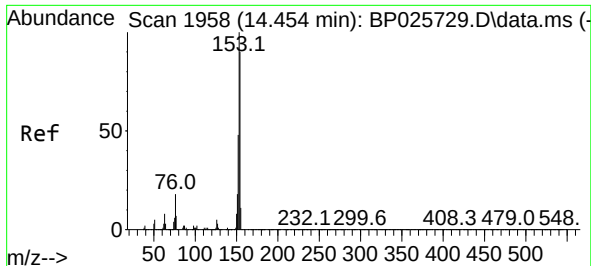
Tgt Ion:172 Resp: 2181304
Ion Ratio Lower Upper
172 100
171 34.9 27.8 41.6
170 22.8 18.6 27.8



#46
1,1'-Biphenyl
Concen: 3.324 ng
RT: 13.172 min Scan# 1740
Delta R.T. -0.029 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:154 Resp: 149766
Ion Ratio Lower Upper
154 100
153 40.2 19.7 59.7
76 12.9 0.0 33.3

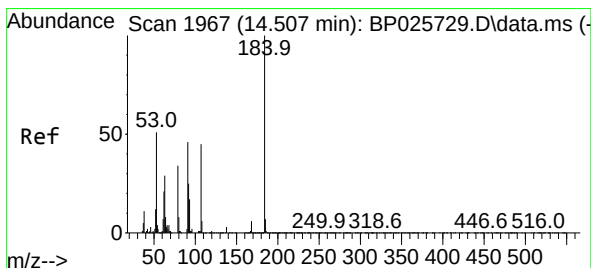
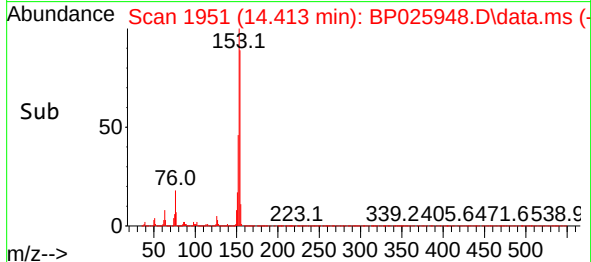
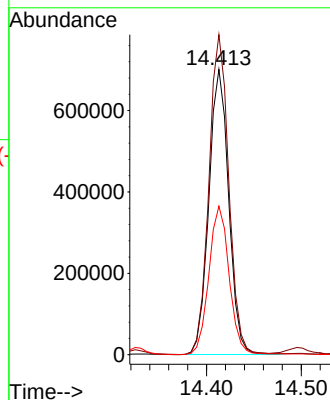
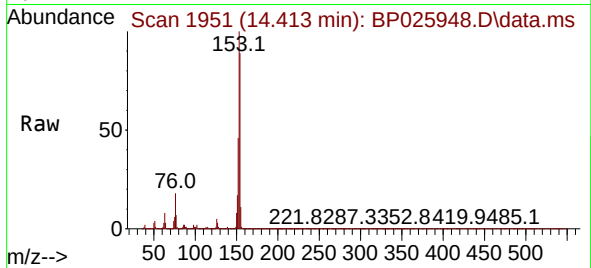




#52
Acenaphthene
Concen: 30.129 ng
RT: 14.413 min Scan# 1951
Delta R.T. -0.041 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

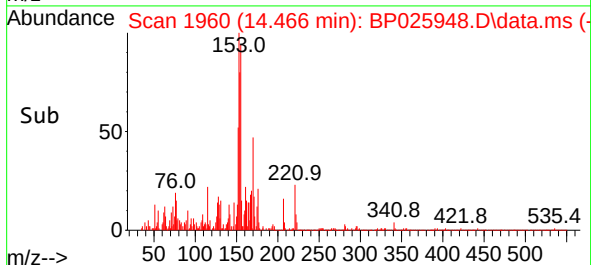
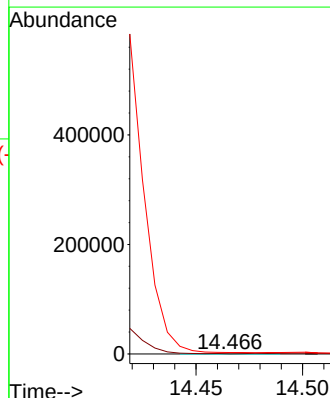
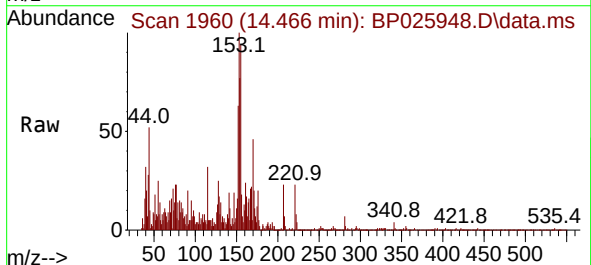
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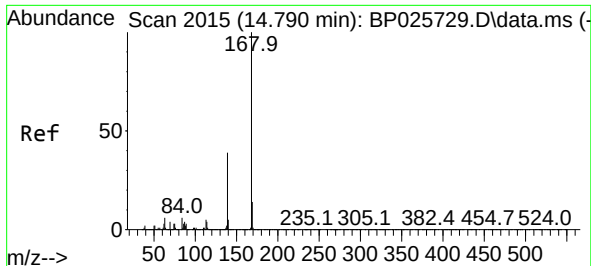
Tgt Ion:154 Resp: 1021350
Ion Ratio Lower Upper
154 100
153 112.2 89.4 134.0
152 52.0 42.5 63.7



#54
2,4-Dinitrophenol
Concen: 4.832 ng
RT: 14.466 min Scan# 1960
Delta R.T. -0.041 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:184 Resp: 53
Ion Ratio Lower Upper
184 100
63 777.1 52.5 78.7#
154 5437.5 51.5 77.3#

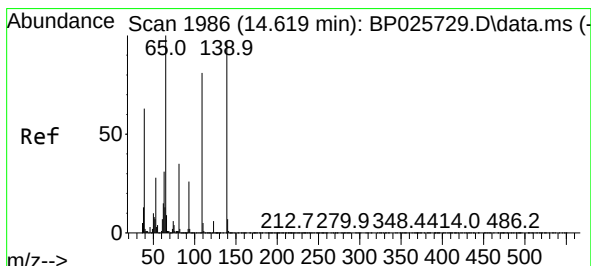
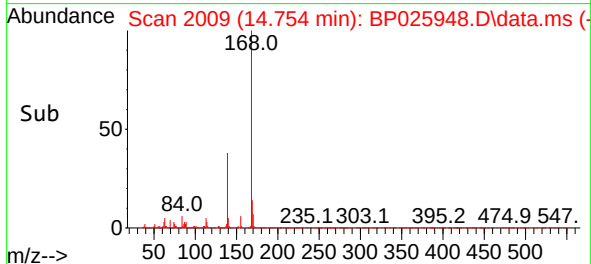
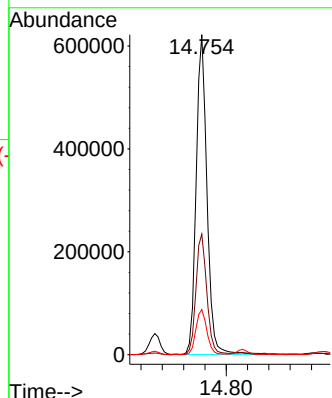
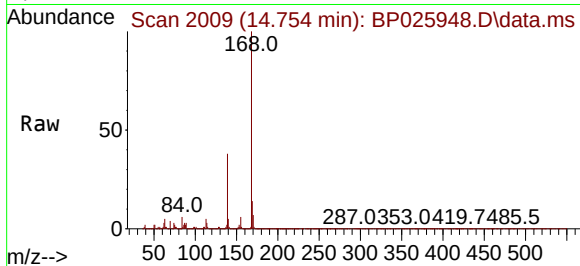




#55
Dibenzofuran
Concen: 15.863 ng
RT: 14.754 min Scan# 2009
Delta R.T. -0.035 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

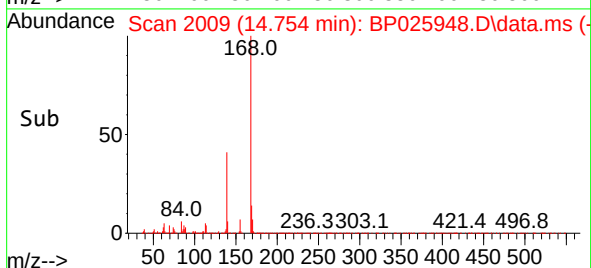
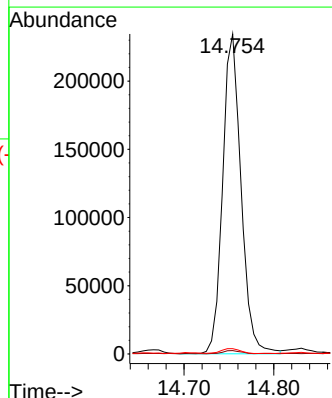
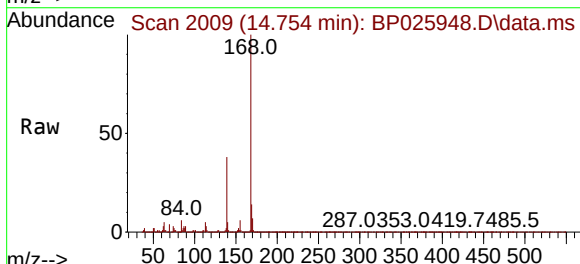
Instrument :
BNA_P
ClientSampleId :
VNJ-261

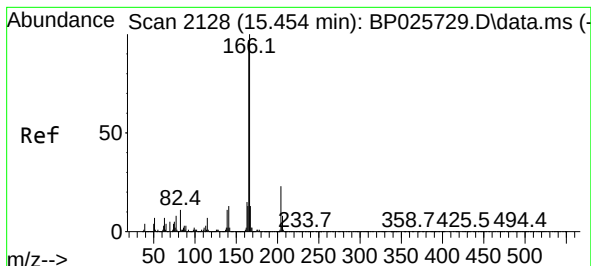
Tgt Ion:168 Resp: 876417
Ion Ratio Lower Upper
168 100
139 37.7 31.7 47.5
169 14.1 10.8 16.2



#56
4-Nitrophenol
Concen: 39.473 ng
RT: 14.754 min Scan# 2009
Delta R.T. 0.135 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:139 Resp: 333293
Ion Ratio Lower Upper
139 100
109 1.1 62.9 102.9#
65 1.6 83.4 123.4#





#58

Fluorene

Concen: 27.652 ng

RT: 15.419 min Scan# 2122

Delta R.T. -0.035 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

Instrument :

BNA_P

ClientSampleId :

VNJ-261

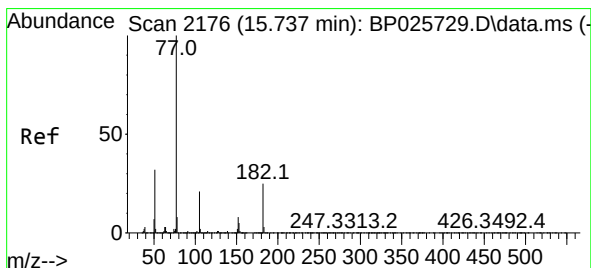
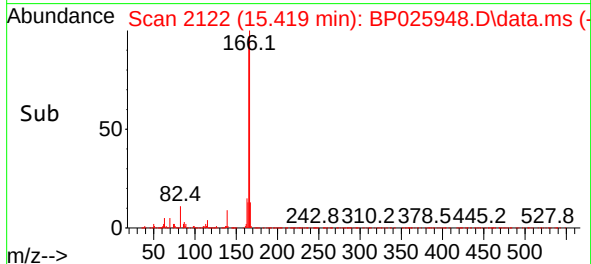
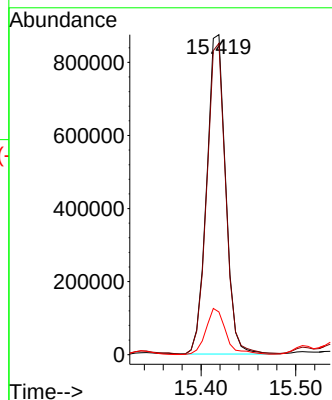
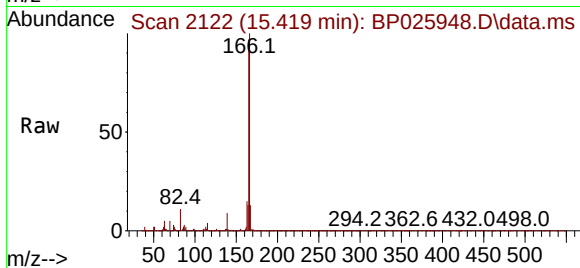
Tgt Ion:166 Resp: 1214837

Ion Ratio Lower Upper

166 100

165 97.3 77.7 116.5

167 13.4 10.6 16.0



#63

Azobenzene

Concen: 4.752 ng

RT: 15.731 min Scan# 2175

Delta R.T. -0.006 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

Tgt Ion: 77 Resp: 218438

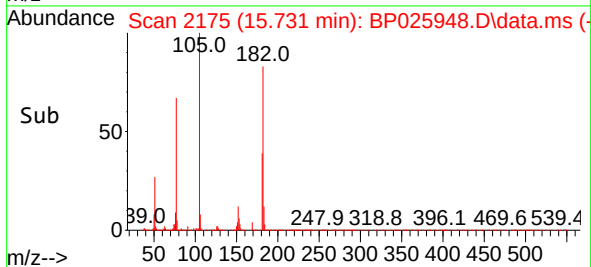
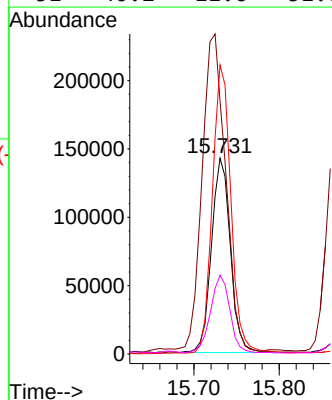
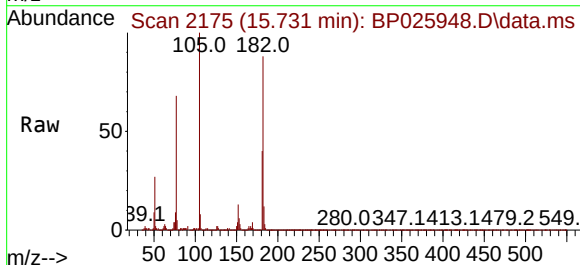
Ion Ratio Lower Upper

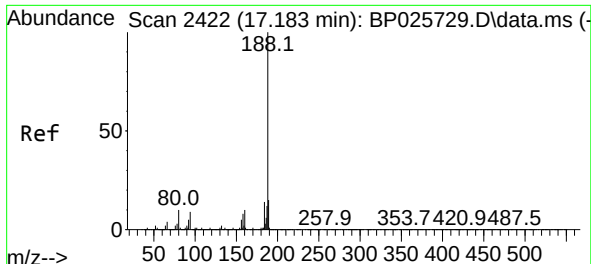
77 100

182 129.3 5.2 45.2#

105 147.6 1.1 41.1#

51 40.2 11.6 51.6

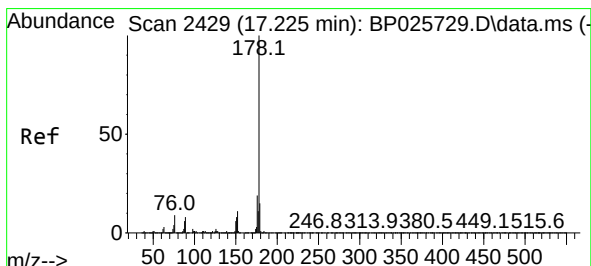
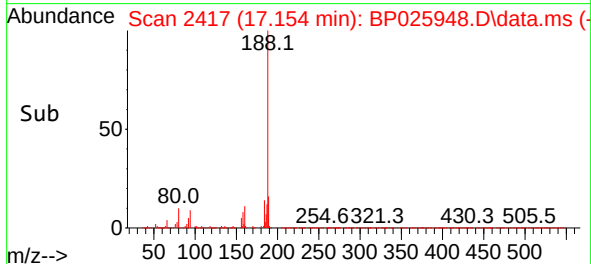
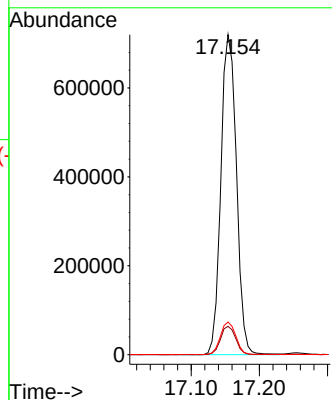
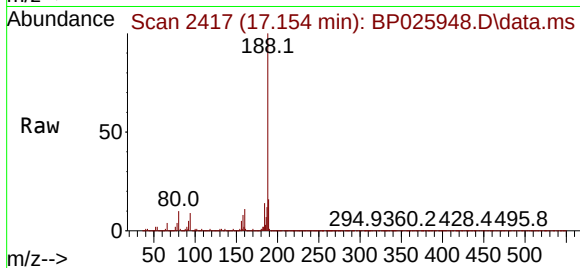




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.154 min Scan# 2417
Delta R.T. -0.029 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

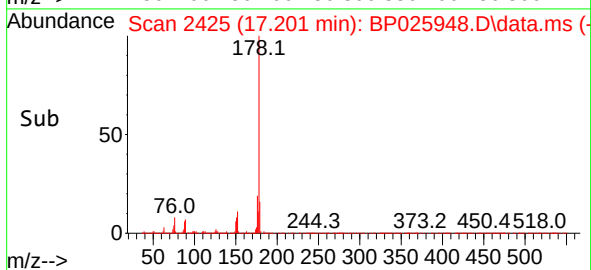
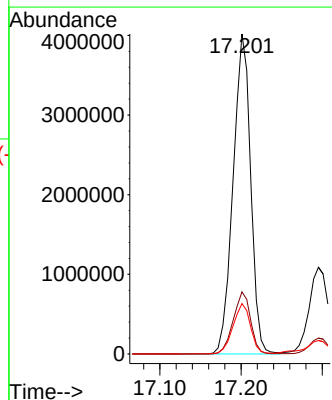
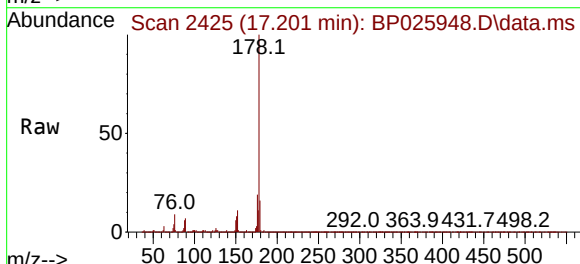
Instrument :
BNA_P
ClientSampleId :
VNJ-261

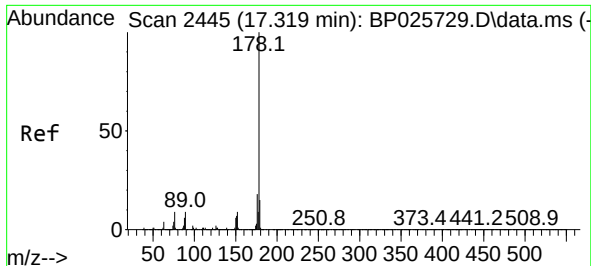
Tgt Ion:188 Resp: 1143362
Ion Ratio Lower Upper
188 100
94 8.9 7.4 11.0
80 10.2 7.7 11.5



#71
Phenanthrene
Concen: 92.813 ng
RT: 17.201 min Scan# 2425
Delta R.T. -0.024 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:178 Resp: 6019686
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.8 12.2 18.4

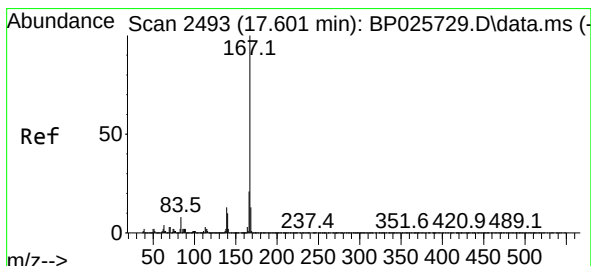
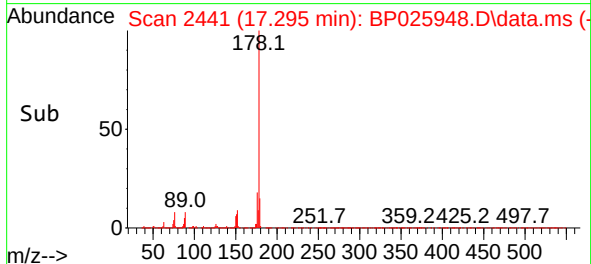
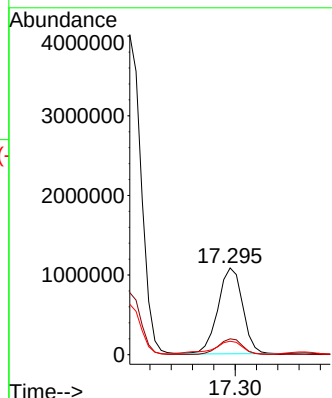
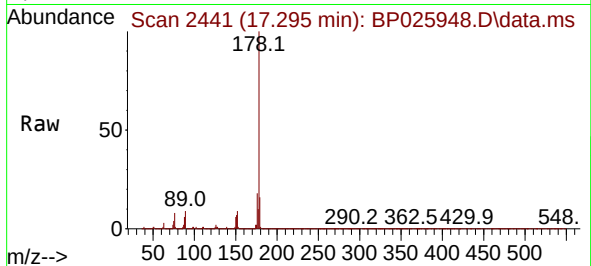




#72
 Anthracene
 Concen: 26.373 ng
 RT: 17.295 min Scan# 2445
 Delta R.T. -0.024 min
 Lab File: BP025948.D
 Acq: 07 Oct 2025 18:40

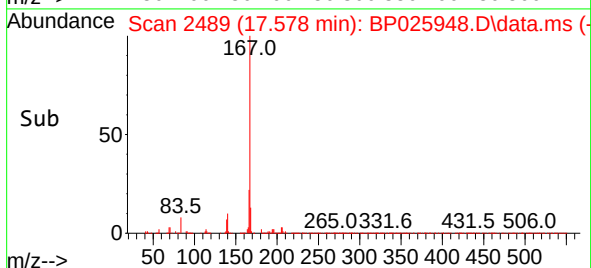
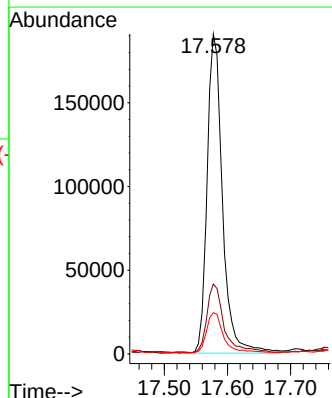
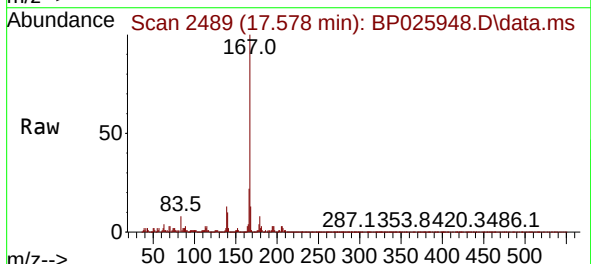
Instrument :
 BNA_P
 ClientSampleId :
 VNJ-261

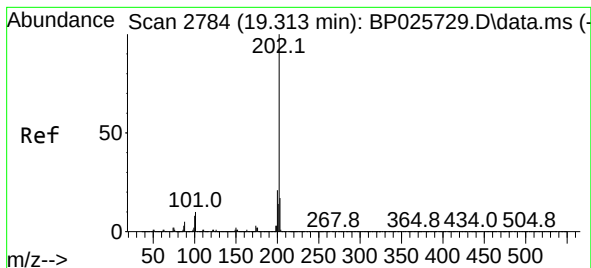
Tgt Ion:178 Resp: 1735543
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.8 22.2
 179 15.6 12.2 18.4



#73
 Carbazole
 Concen: 5.254 ng
 RT: 17.578 min Scan# 2489
 Delta R.T. -0.024 min
 Lab File: BP025948.D
 Acq: 07 Oct 2025 18:40

Tgt Ion:167 Resp: 321431
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.0 25.4
 139 12.9 10.6 16.0





#75

Fluoranthene

Concen: 68.321 ng

RT: 19.295 min Scan# 21

Delta R.T. -0.018 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

Instrument :

BNA_P

ClientSampleId :

VNJ-261

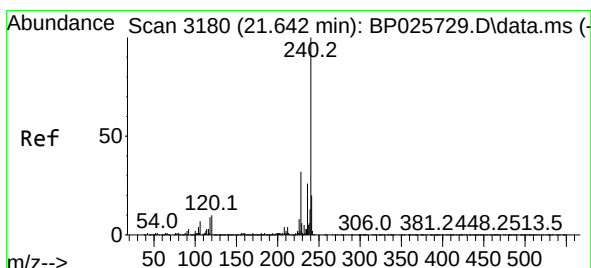
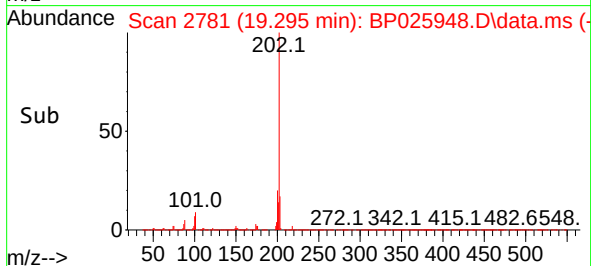
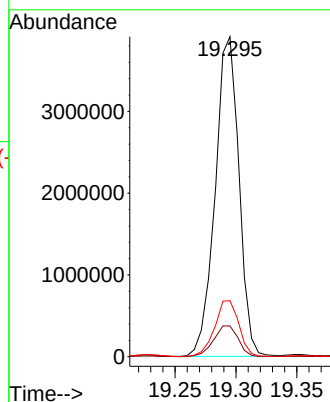
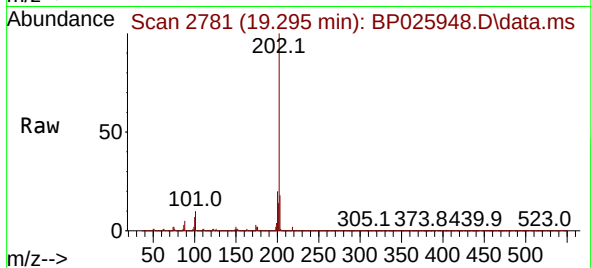
Tgt Ion:202 Resp: 5314402

Ion Ratio Lower Upper

202 100

101 9.6 0.0 30.4

203 17.5 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.601 min Scan# 3173

Delta R.T. -0.041 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

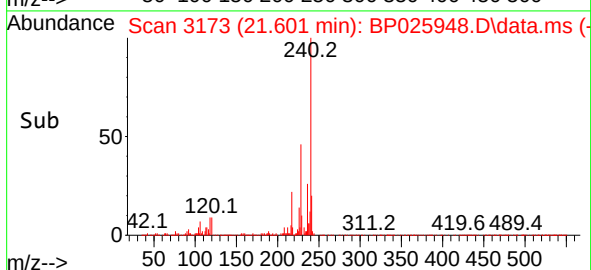
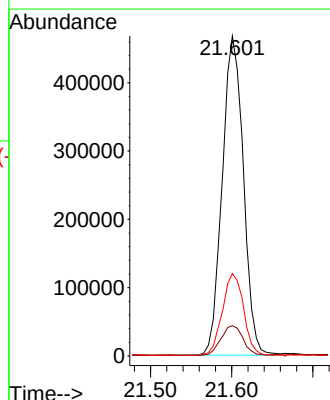
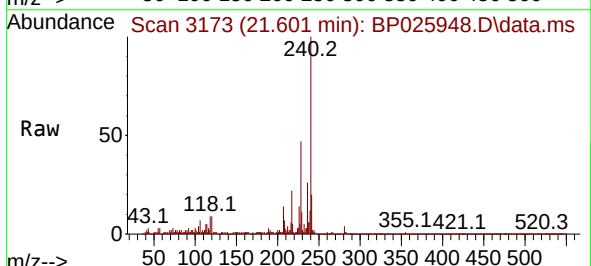
Tgt Ion:240 Resp: 847062

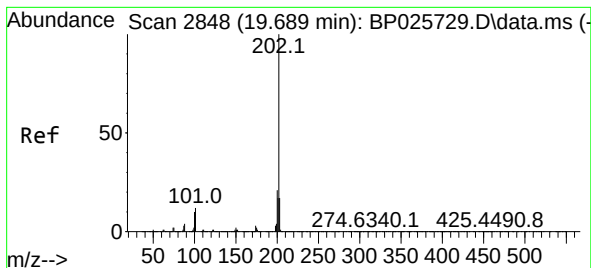
Ion Ratio Lower Upper

240 100

120 9.5 8.0 12.0

236 25.8 20.7 31.1





#78

Pyrene

Concen: 75.424 ng

RT: 19.672 min Scan# 2845

Delta R.T. -0.018 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

Instrument :

BNA_P

ClientSampleId :

VNJ-261

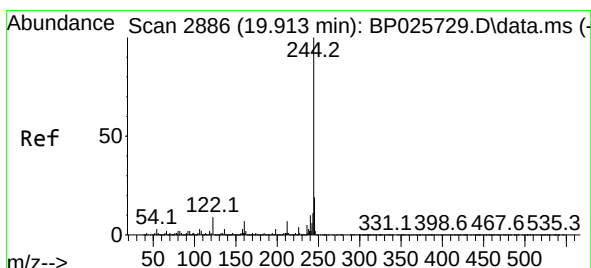
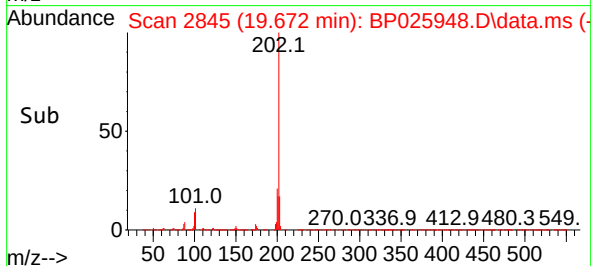
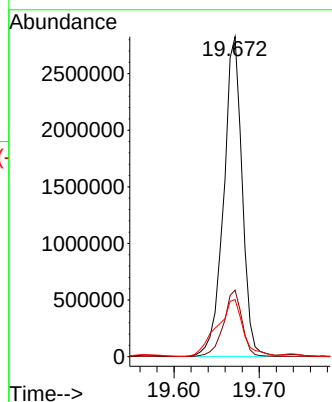
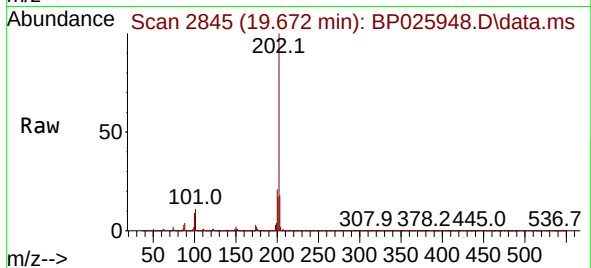
Tgt Ion:202 Resp: 4263018

Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.6

203 17.9 13.9 20.9



#79

Terphenyl-d14

Concen: 56.129 ng

RT: 19.883 min Scan# 2881

Delta R.T. -0.029 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

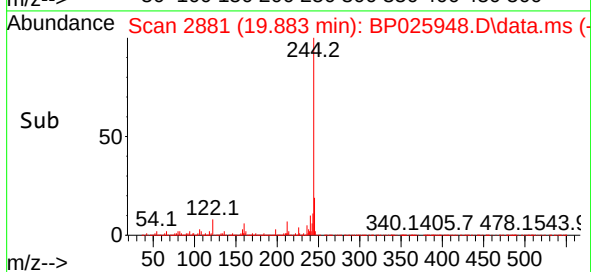
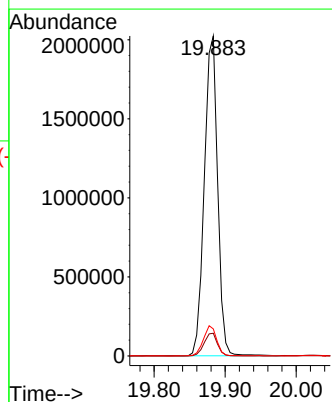
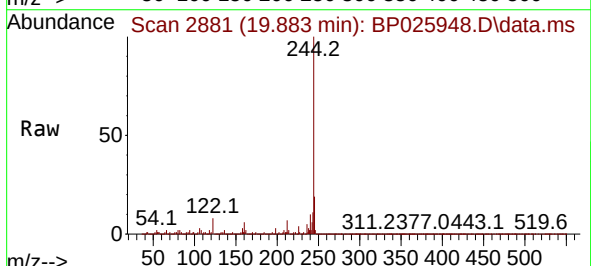
Tgt Ion:244 Resp: 2642857

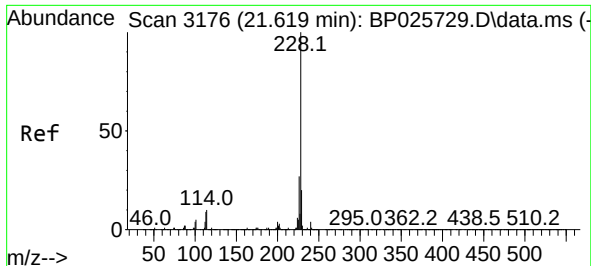
Ion Ratio Lower Upper

244 100

212 7.1 5.9 8.9

122 8.5 7.1 10.7

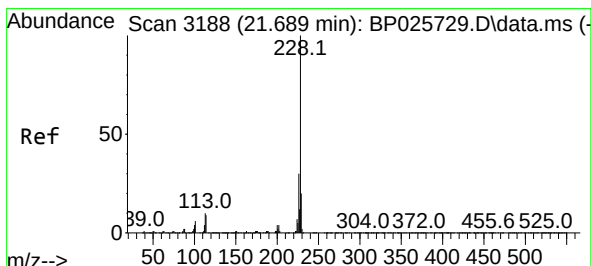
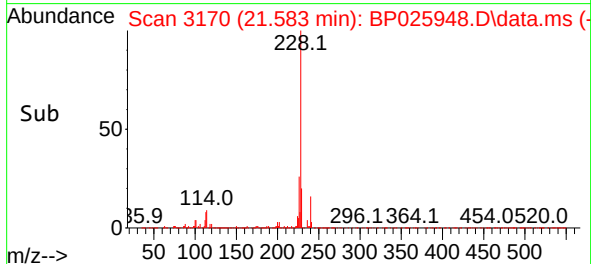
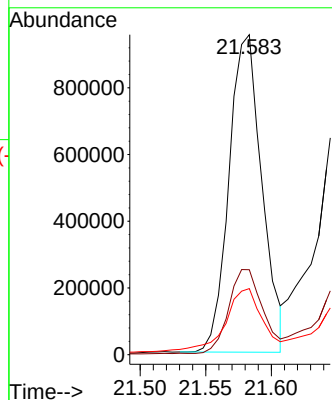
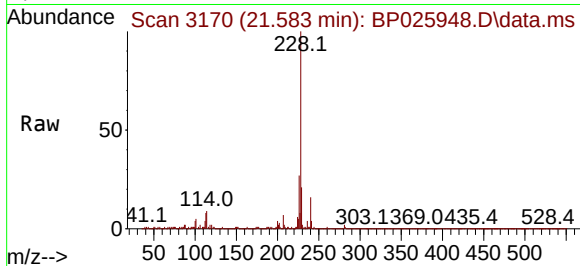




#81
Benzo(a)anthracene
Concen: 28.651 ng
RT: 21.583 min Scan# 3170
Delta R.T. -0.035 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

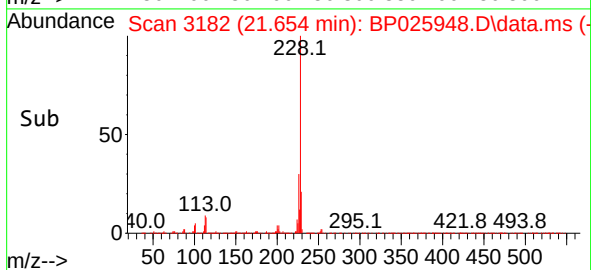
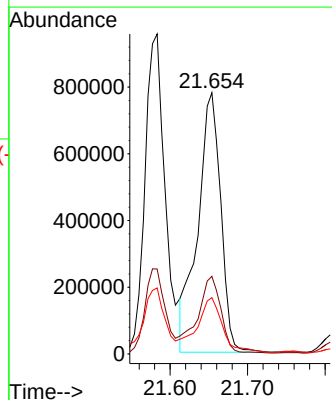
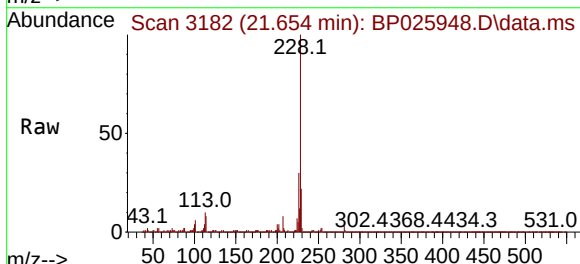
Instrument :
BNA_P
ClientSampleId :
VNJ-261

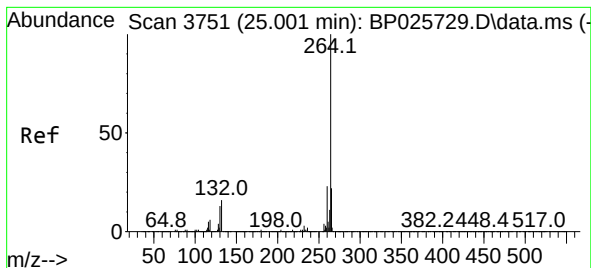
Tgt Ion:228 Resp: 1661517
Ion Ratio Lower Upper
228 100
226 26.6 21.6 32.4
229 20.7 15.7 23.5



#83
Chrysene
Concen: 29.059 ng
RT: 21.654 min Scan# 3182
Delta R.T. -0.035 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:228 Resp: 1606379
Ion Ratio Lower Upper
228 100
226 29.7 23.8 35.6
229 21.6 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.954 min Scan# 31

Delta R.T. -0.047 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

Instrument :

BNA_P

ClientSampleId :

VNJ-261

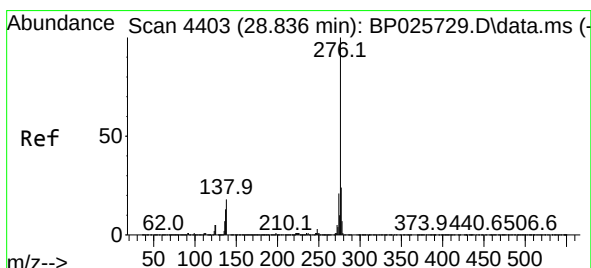
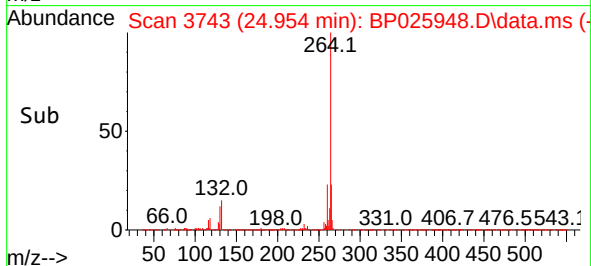
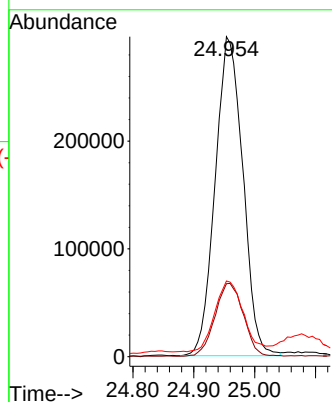
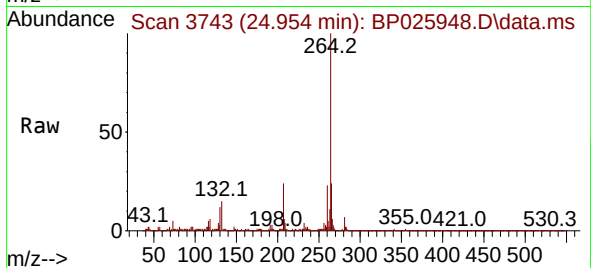
Tgt Ion:264 Resp: 933850

Ion Ratio Lower Upper

264 100

260 22.8 18.3 27.5

265 23.7 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.805 ng

RT: 28.771 min Scan# 4392

Delta R.T. -0.065 min

Lab File: BP025948.D

Acq: 07 Oct 2025 18:40

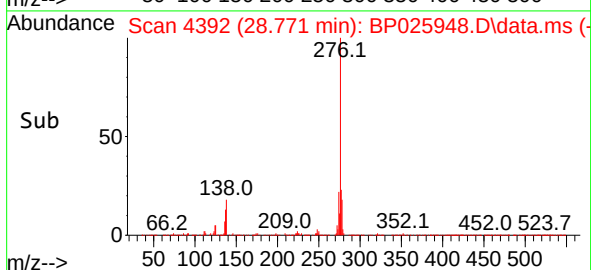
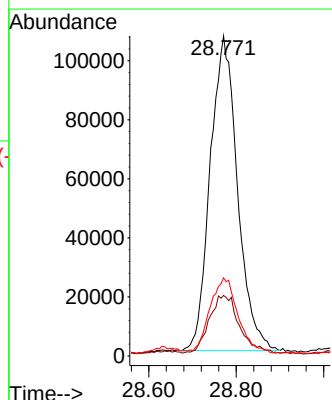
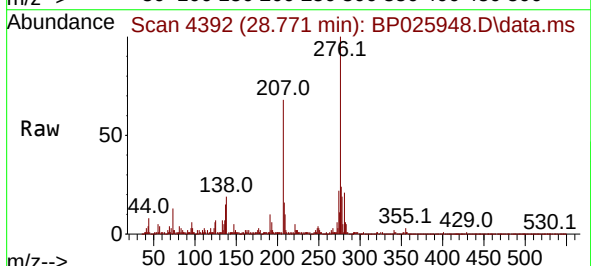
Tgt Ion:276 Resp: 462108

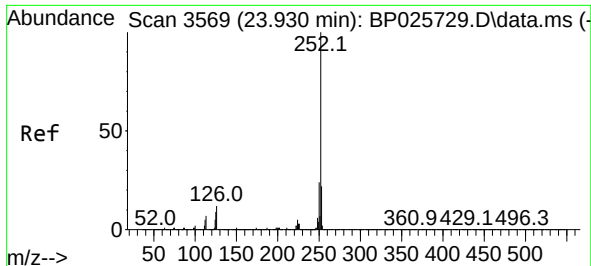
Ion Ratio Lower Upper

276 100

138 20.1 13.4 20.2

277 24.4 9.1 13.7#

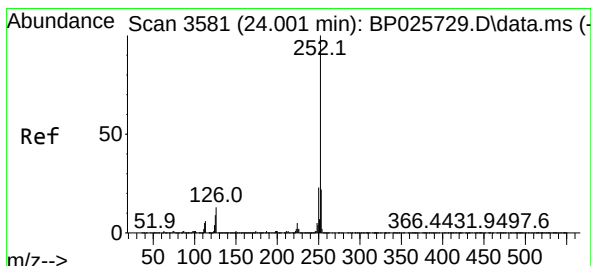
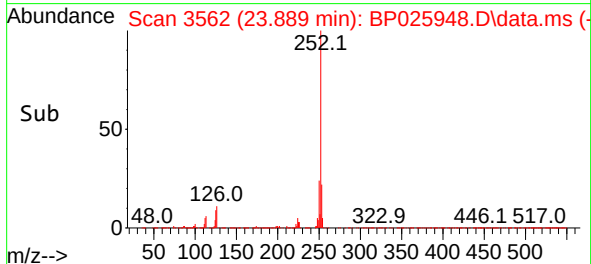
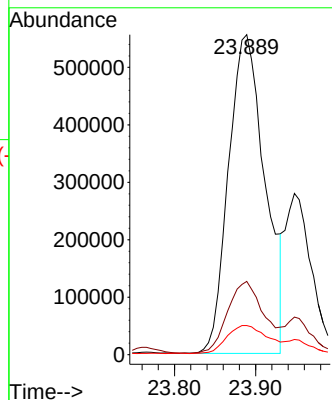
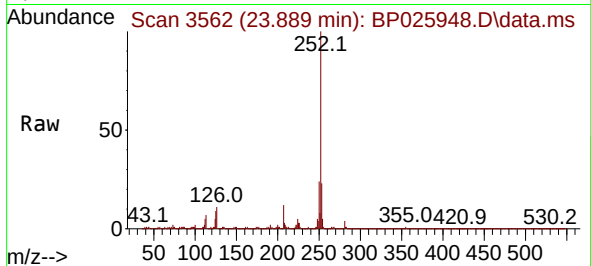




#88
Benzo(b)fluoranthene
Concen: 30.408 ng
RT: 23.889 min Scan# 3562
Delta R.T. -0.041 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

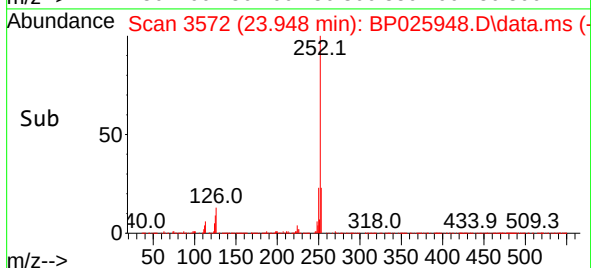
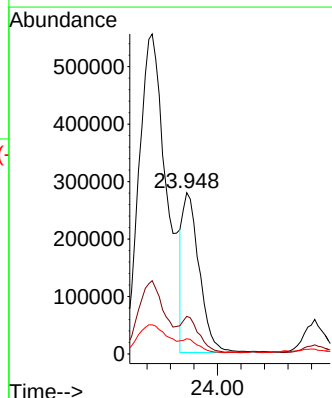
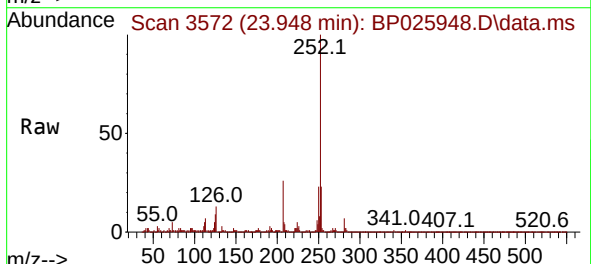
Instrument :
BNA_P
ClientSampleId :
VNJ-261

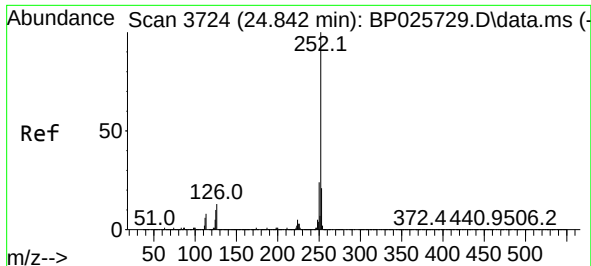
Tgt Ion:252 Resp: 1736518
Ion Ratio Lower Upper
252 100
253 22.9 17.9 26.9
125 9.1 7.3 10.9



#89
Benzo(k)fluoranthene
Concen: 9.450 ng
RT: 23.948 min Scan# 3572
Delta R.T. -0.053 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:252 Resp: 550658
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 9.4 7.5 11.3

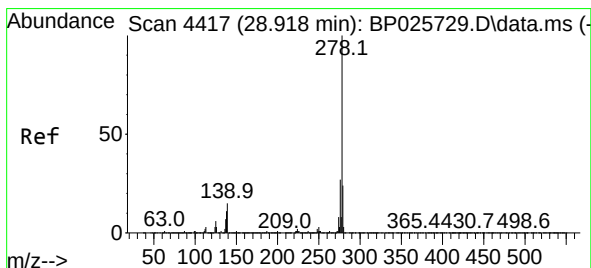
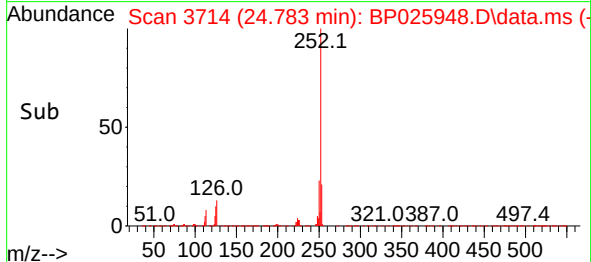
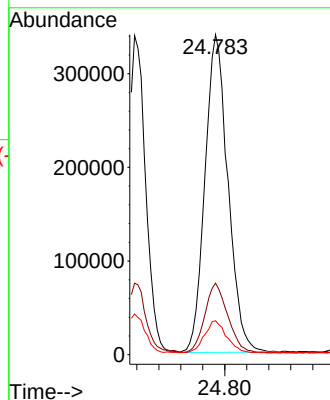
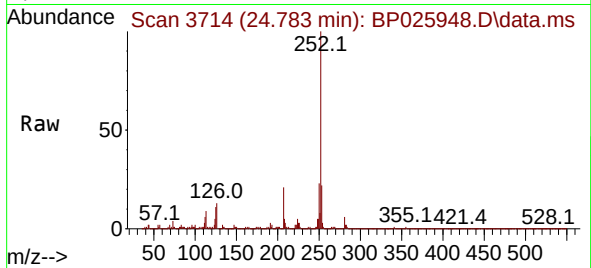




#90
Benzo(a)pyrene
Concen: 17.605 ng
RT: 24.783 min Scan# 31
Delta R.T. -0.059 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

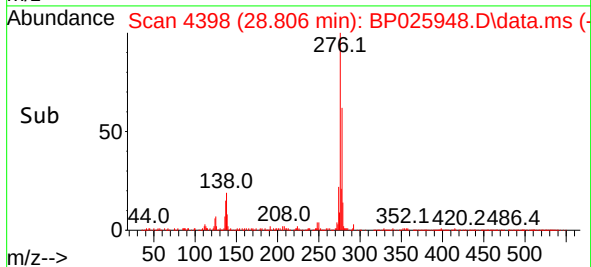
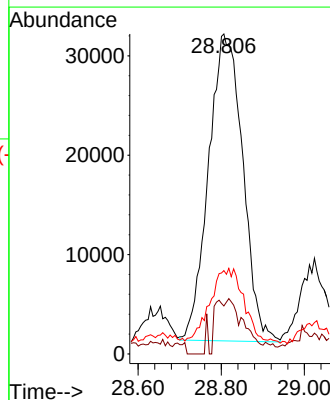
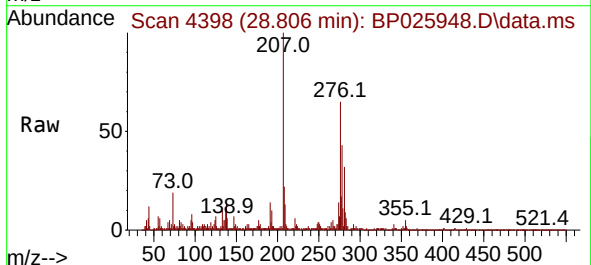
Instrument :
BNA_P
ClientSampleId :
VNJ-261

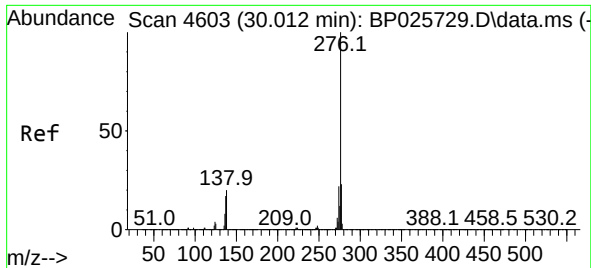
Tgt Ion:252 Resp: 984577
Ion Ratio Lower Upper
252 100
253 22.3 17.2 25.8
125 10.6 8.3 12.5



#91
Dibenzo(a,h)anthracene
Concen: 3.179 ng
RT: 28.806 min Scan# 4398
Delta R.T. -0.112 min
Lab File: BP025948.D
Acq: 07 Oct 2025 18:40

Tgt Ion:278 Resp: 176646
Ion Ratio Lower Upper
278 100
139 17.3 12.1 18.1
279 26.1 19.6 29.4





#92
 Benzo(g,h,i)perylene
 Concen: 8.022 ng
 RT: 29.959 min Scan# 4
 Delta R.T. -0.053 min
 Lab File: BP025948.D
 Acq: 07 Oct 2025 18:40

Instrument :
 BNA_P
 ClientSampleId :
 VNJ-261

Tgt Ion:276 Resp: 438424
 Ion Ratio Lower Upper
 276 100
 277 24.3 18.7 28.1
 138 20.1 16.0 24.0

