

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071125\
 Data File : BM050417.D
 Acq On : 11 Jul 2025 17:48
 Operator : RC/JU
 Sample : Q2551-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 VNJ-204

Quant Time: Jul 11 18:24:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 08 18:32:25 2025
 Response via : Initial Calibration

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

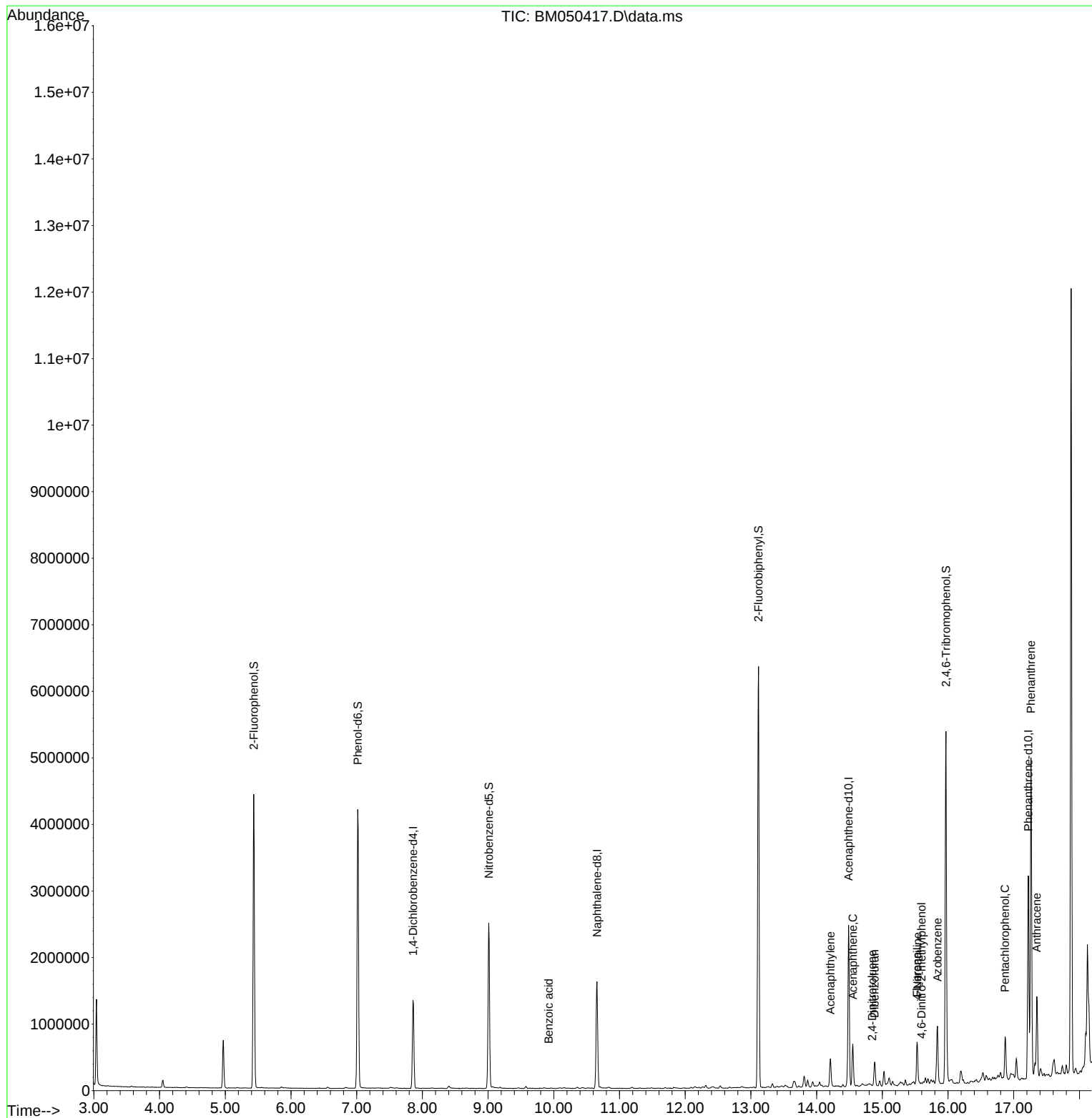
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.857	152	365974	20.000	ng	0.00
21) Naphthalene-d8	10.657	136	1334648	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	853709	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	1769303	20.000	ng	0.00
76) Chrysene-d12	21.450	240	2110668	20.000	ng	0.00
86) Perylene-d12	24.485	264	2341426	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	1824938	85.834	ng	0.00
7) Phenol-d6	7.016	99	2282470	85.160	ng	0.00
23) Nitrobenzene-d5	9.010	82	1329379	50.817	ng	-0.01
42) 2,4,6-Tribromophenol	15.968	330	923123	88.996	ng	0.00
45) 2-Fluorobiphenyl	13.116	172	3343232	48.362	ng	0.00
79) Terphenyl-d14	19.833	244	6081165	50.693	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.922	122	585	6.015	ng	# 28
49) Acenaphthylene	14.210	152	330382	4.329	ng	99
52) Acenaphthene	14.551	154	218503	4.503	ng	98
55) Dibenzofuran	14.880	168	204972	2.742	ng	96
57) 2,4-Dinitrotoluene	14.845	165	649	2.760	ng	# 70
58) Fluorene	15.527	166	293180	4.761	ng	98
62) 4-Nitroaniline	15.533	138	3920	2.855	ng	# 42
63) Azobenzene	15.839	77	217892	4.226	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.598	198	7371	6.976	ng	# 56
70) Pentachlorophenol	16.868	266	94013	6.559	ng	98
71) Phenanthrene	17.262	178	2863285	28.599	ng	100
72) Anthracene	17.351	178	775946	7.786	ng	98
75) Fluoranthene	19.268	202	4340702	39.882	ng	98
78) Pyrene	19.633	202	3719541	27.516	ng	100
81) Benzo(a)anthracene	21.433	228	1578184	11.476	ng	94
83) Chrysene	21.492	228	1503050	11.587	ng	98
84) Bis(2-ethylhexyl)phtha...	21.362	149	270891	3.828	ng	98
87) Indeno(1,2,3-cd)pyrene	27.915	276	1026470	6.166	ng	96
88) Benzo(b)fluoranthene	23.527	252	1982140	13.763	ng	99
89) Benzo(k)fluoranthene	23.527	252	1982140	13.264	ng	# 98
90) Benzo(a)pyrene	24.344	252	1361843	10.101	ng	99
92) Benzo(g,h,i)perylene	28.985	276	1016748	7.673	ng	99

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

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ALS Vial : 14 Sample Multiplier: 1

Instrument :
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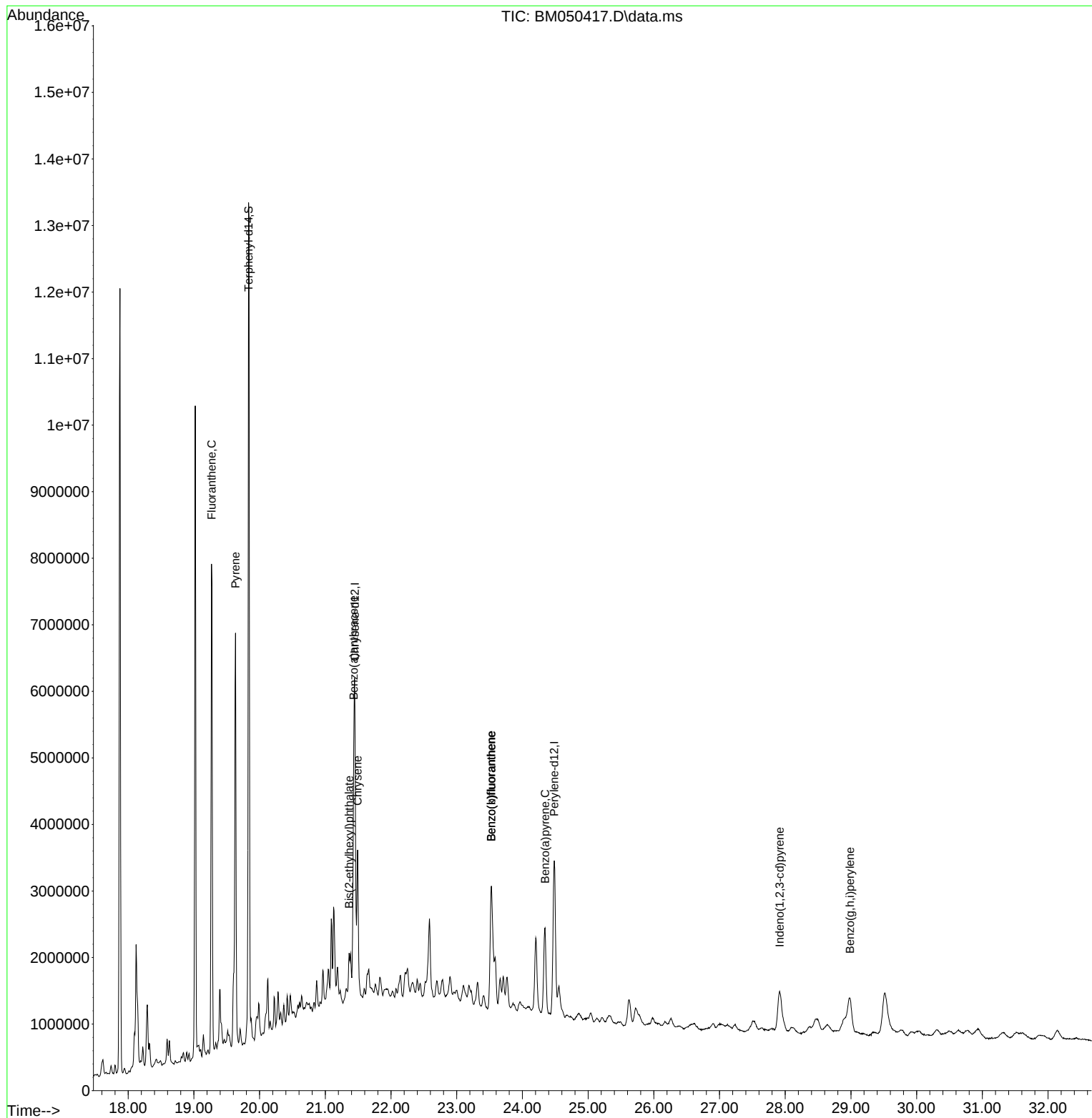
Quant Time: Jul 11 18:24:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

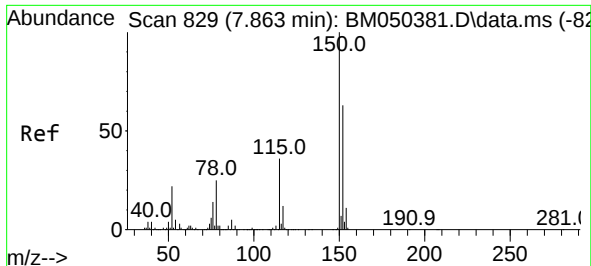


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071125\
Data File : BM050417.D
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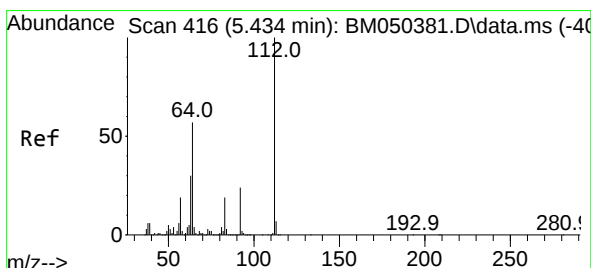
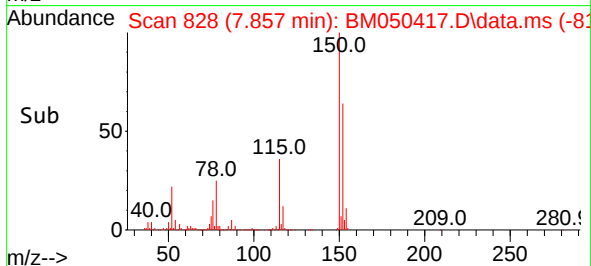
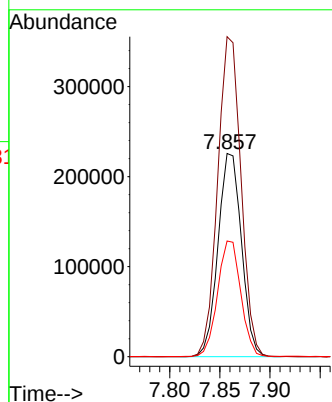
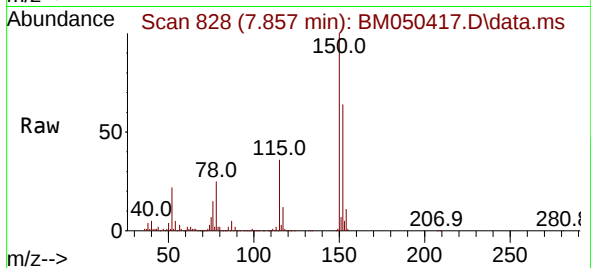




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.857 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

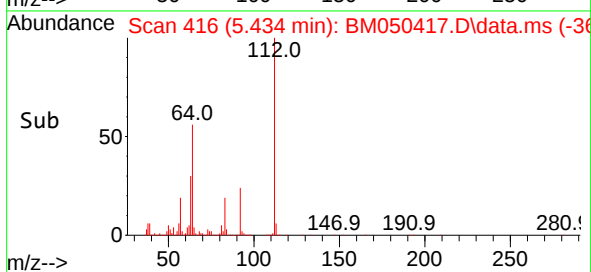
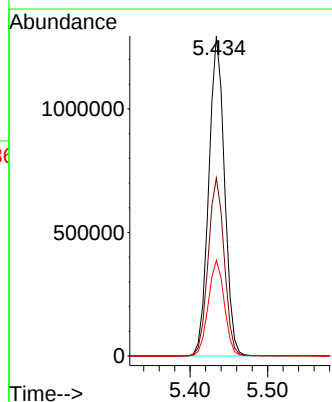
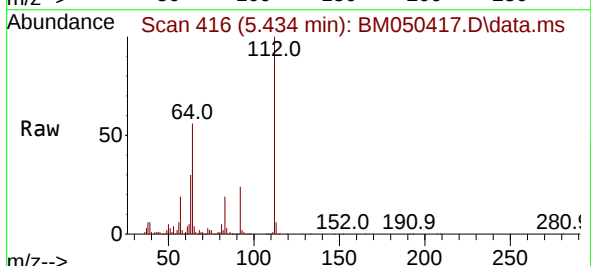
Instrument :
BNA_M
ClientSampleId :
VNJ-204

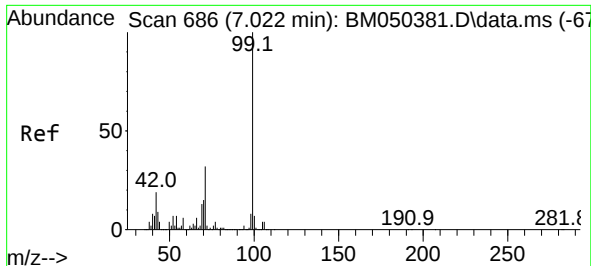
Tgt Ion:152 Resp: 365974
Ion Ratio Lower Upper
152 100
150 157.4 126.2 189.4
115 56.9 45.8 68.8



#5
2-Fluorophenol
Concen: 85.834 ng
RT: 5.434 min Scan# 416
Delta R.T. 0.000 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion:112 Resp: 1824938
Ion Ratio Lower Upper
112 100
64 55.6 45.5 68.3
63 29.9 24.2 36.4

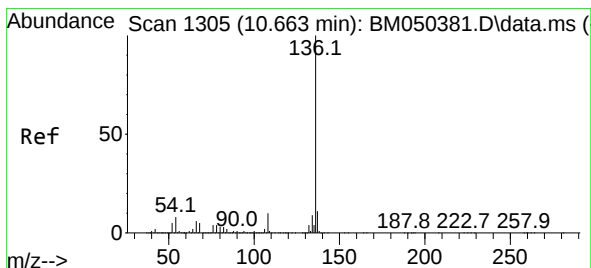
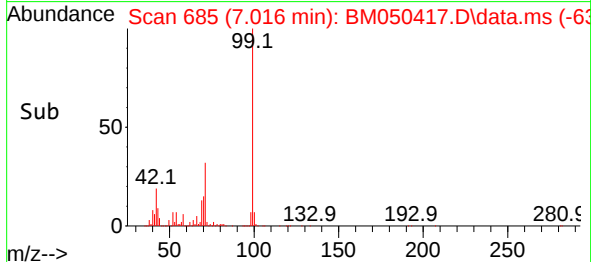
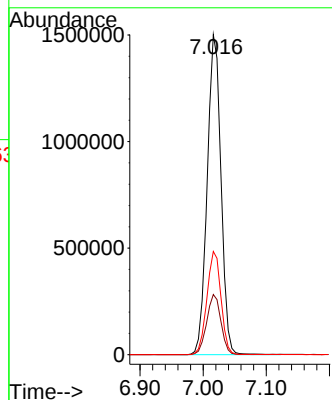
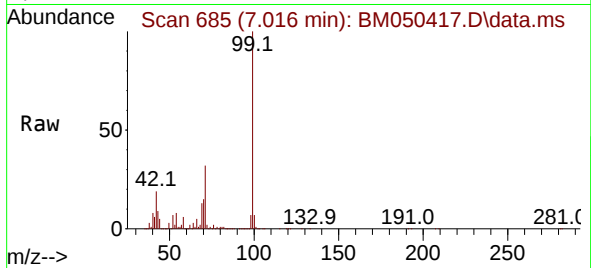




#7
Phenol-d6
Concen: 85.160 ng
RT: 7.016 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

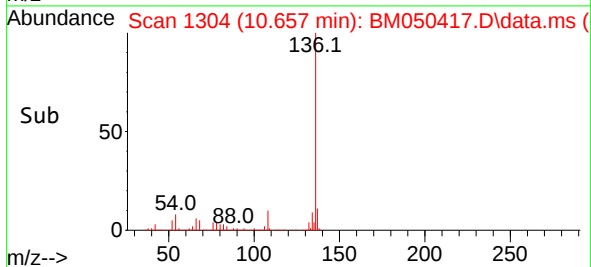
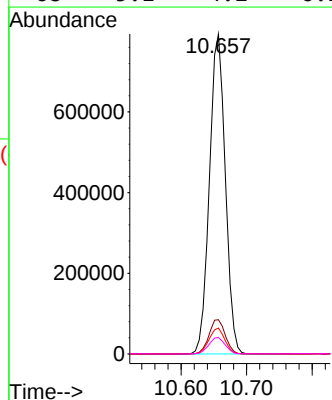
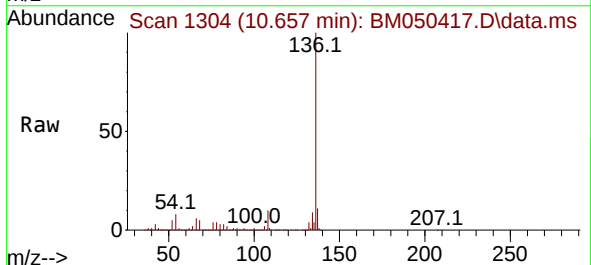
Instrument :
BNA_M
ClientSampleId :
VNJ-204

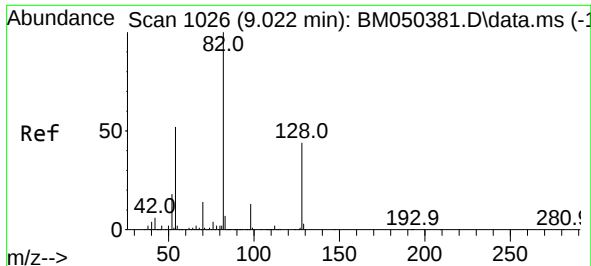
Tgt Ion: 99 Resp: 2282470
Ion Ratio Lower Upper
99 100
42 18.8 15.0 22.6
71 32.3 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.657 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion: 136 Resp: 1334648
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 8.1 6.3 9.5
68 5.1 4.2 6.2

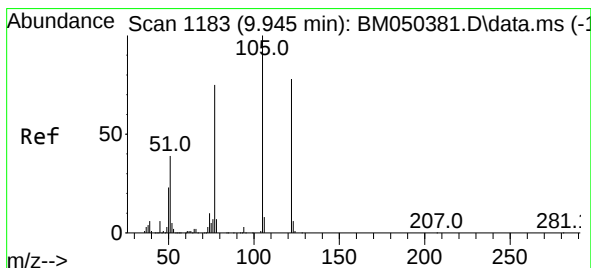
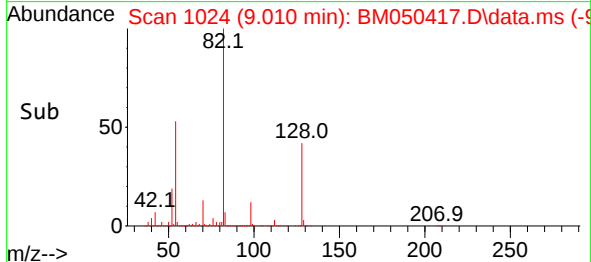
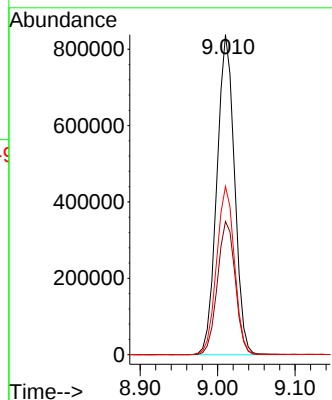
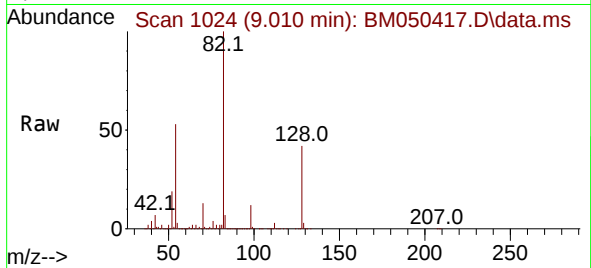




#23
Nitrobenzene-d5
Concen: 50.817 ng
RT: 9.010 min Scan# 1179
Delta R.T. -0.012 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

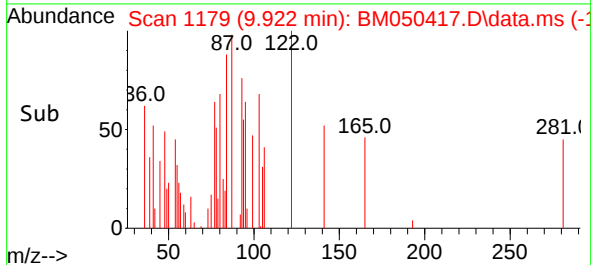
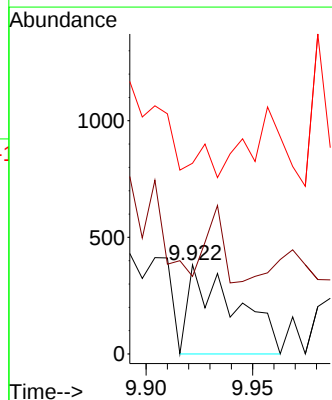
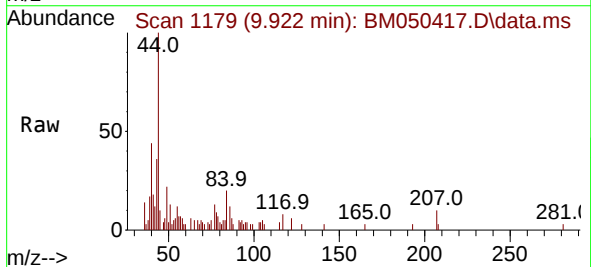
Instrument :
BNA_M
ClientSampleId :
VNJ-204

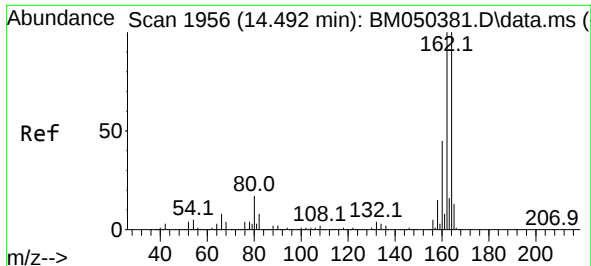
Tgt Ion: 82 Resp: 1329379
Ion Ratio Lower Upper
82 100
128 41.7 35.2 52.8
54 52.6 41.5 62.3



#32
Benzoic acid
Concen: 6.015 ng
RT: 9.922 min Scan# 1179
Delta R.T. -0.023 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion:122 Resp: 585
Ion Ratio Lower Upper
122 100
105 87.2 104.0 144.0#
77 214.1 73.8 113.8#

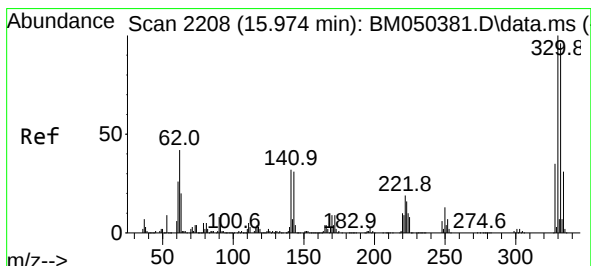
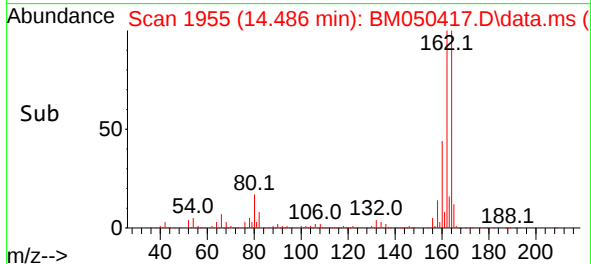
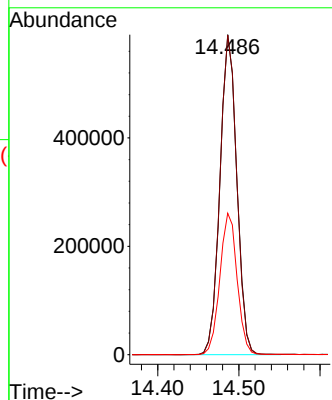
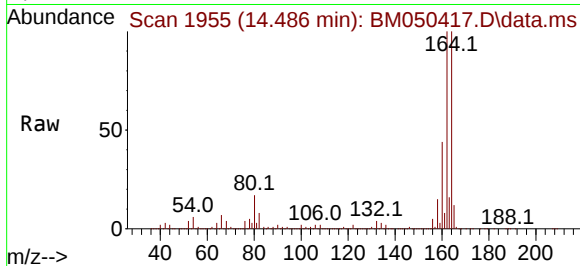




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1955
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

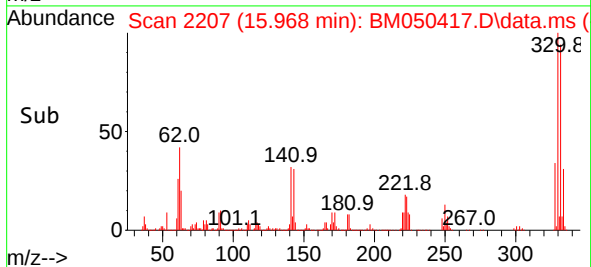
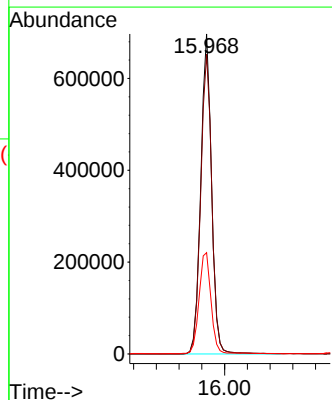
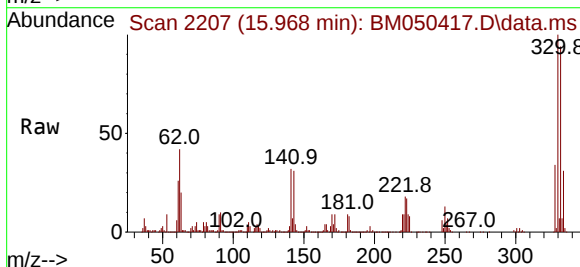
Instrument :
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ClientSampleId :
VNJ-204

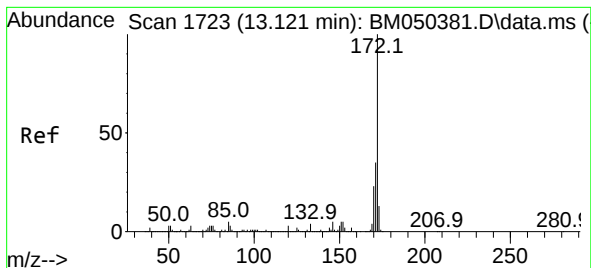
Tgt Ion:164 Resp: 853709
Ion Ratio Lower Upper
164 100
162 99.9 79.9 119.9
160 44.2 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 88.996 ng
RT: 15.968 min Scan# 2207
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion:330 Resp: 923123
Ion Ratio Lower Upper
330 100
332 95.9 76.9 115.3
141 34.7 27.4 41.0





#45

2-Fluorobiphenyl

Concen: 48.362 ng

RT: 13.116 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

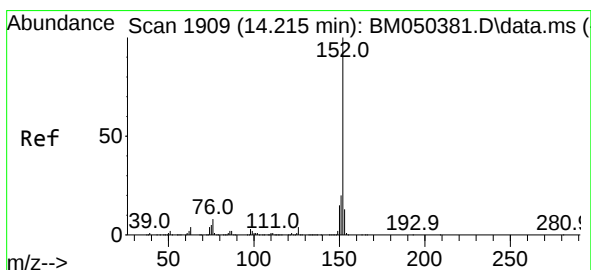
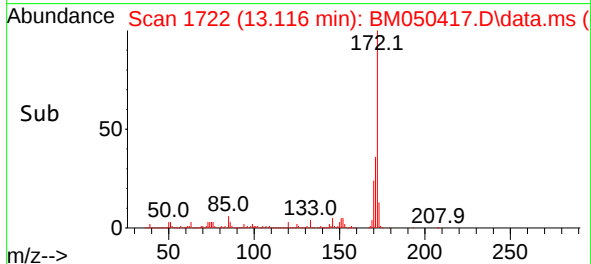
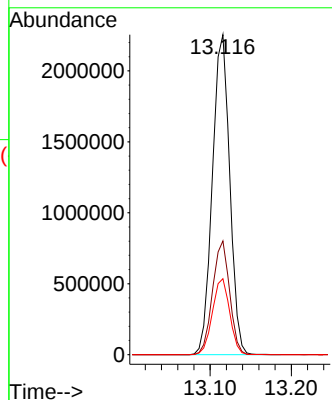
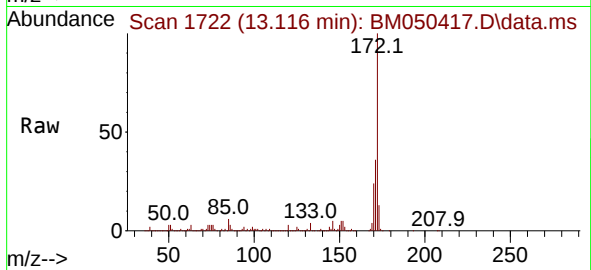
Tgt Ion:172 Resp: 3343232

Ion Ratio Lower Upper

172 100

171 35.6 27.7 41.5

170 23.7 18.8 28.2



#49

Acenaphthylene

Concen: 4.329 ng

RT: 14.210 min Scan# 1908

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

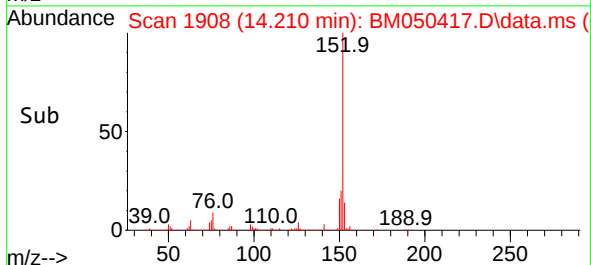
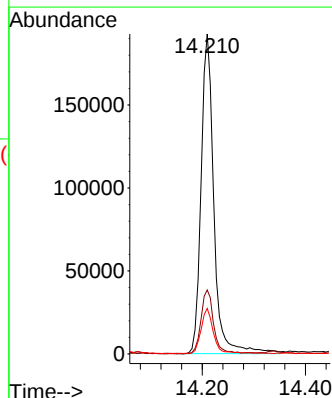
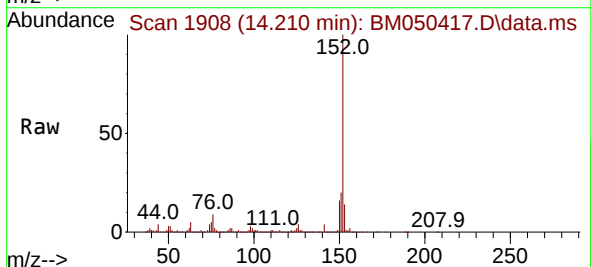
Tgt Ion:152 Resp: 330382

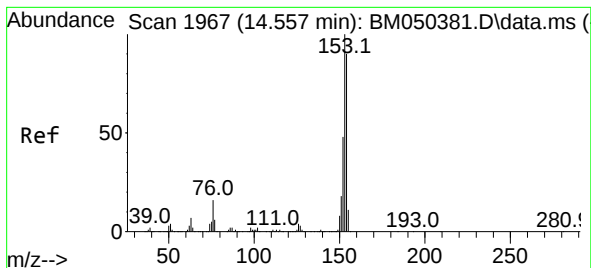
Ion Ratio Lower Upper

152 100

151 20.0 16.3 24.5

153 14.2 10.6 15.8





#52

Acenaphthene

Concen: 4.503 ng

RT: 14.551 min Scan# 1966

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

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ClientSampleId :

VNJ-204

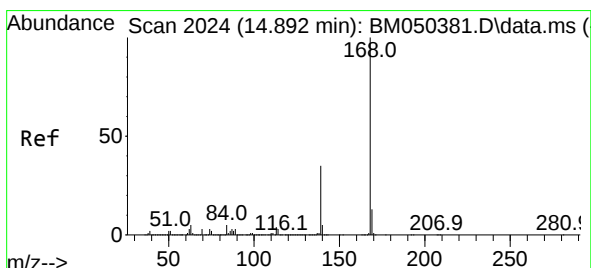
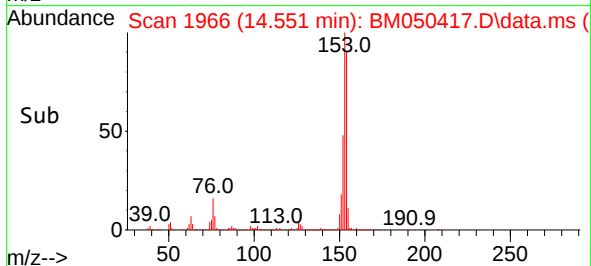
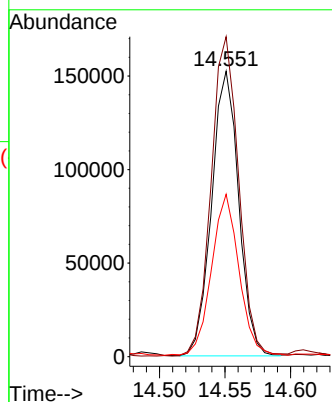
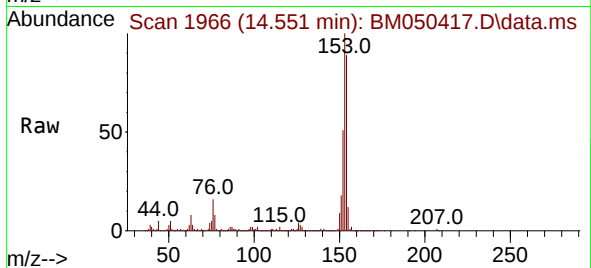
Tgt Ion:154 Resp: 218503

Ion Ratio Lower Upper

154 100

153 112.1 89.2 133.8

152 56.9 42.6 64.0



#55

Dibenzofuran

Concen: 2.742 ng

RT: 14.880 min Scan# 2022

Delta R.T. -0.012 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

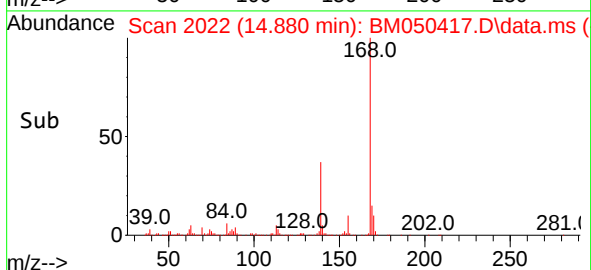
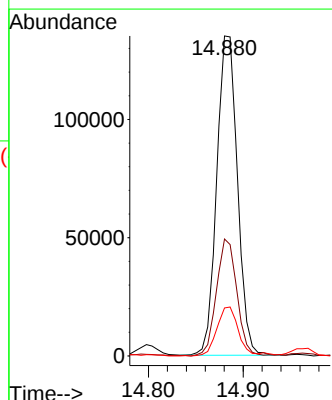
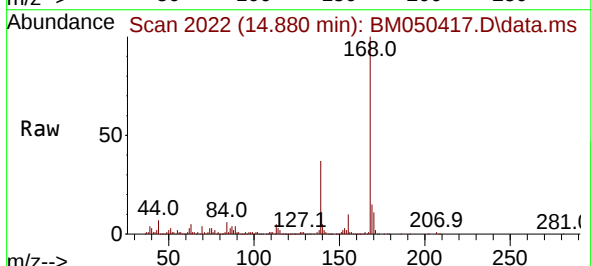
Tgt Ion:168 Resp: 204972

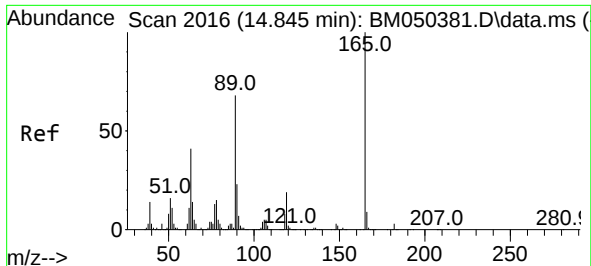
Ion Ratio Lower Upper

168 100

139 36.6 27.7 41.5

169 15.0 10.7 16.1

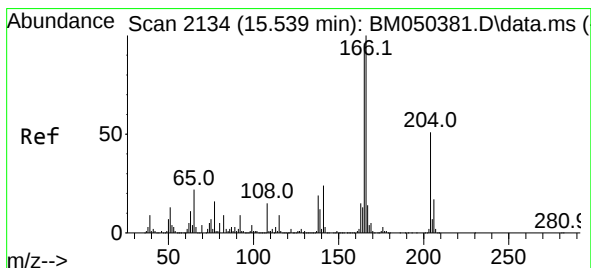
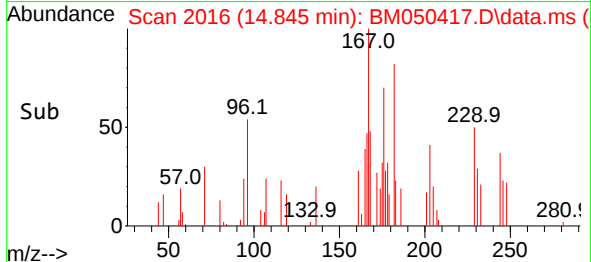
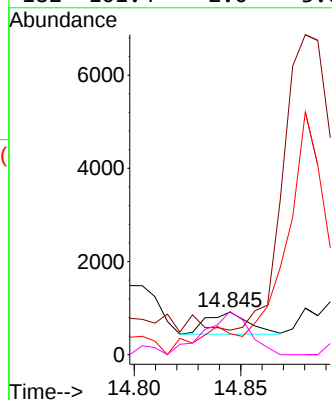
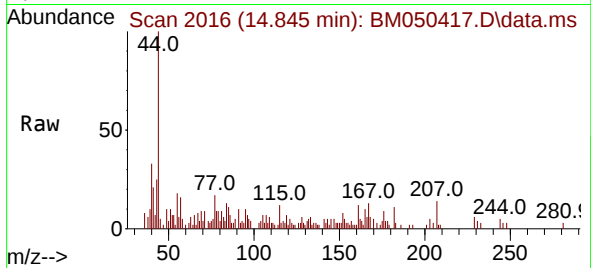




#57
2,4-Dinitrotoluene
Concen: 2.760 ng
RT: 14.845 min Scan# 2016
Delta R.T. -0.000 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

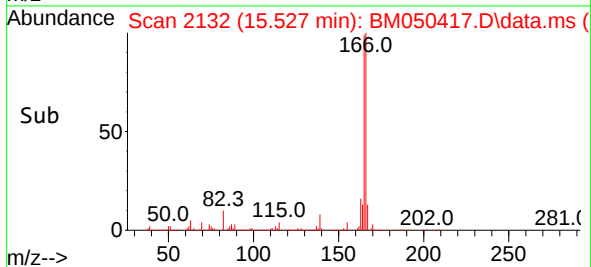
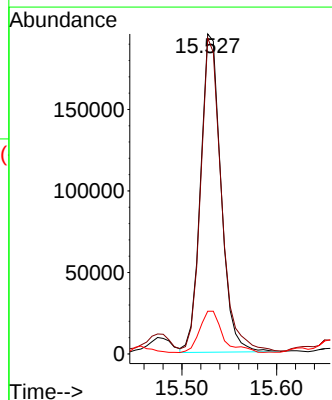
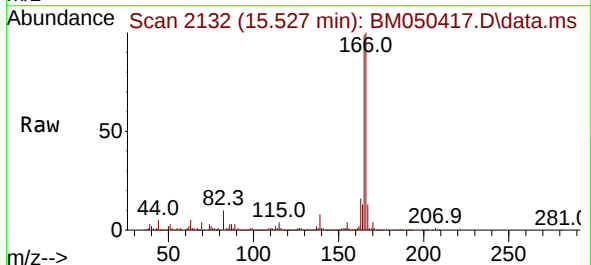
Instrument :
BNA_M
ClientSampleId :
VNJ-204

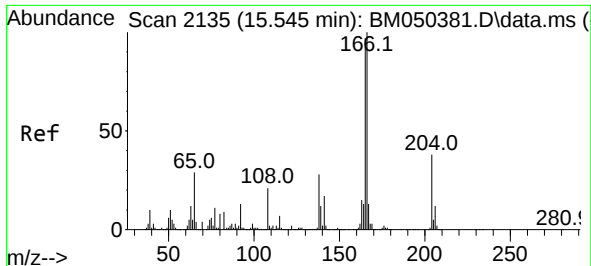
Tgt Ion:165 Resp: 649
Ion Ratio Lower Upper
165 100
63 57.5 32.5 48.7#
89 49.2 54.0 81.0#
182 101.4 2.0 3.0#



#58
Fluorene
Concen: 4.761 ng
RT: 15.527 min Scan# 2132
Delta R.T. -0.012 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion:166 Resp: 293180
Ion Ratio Lower Upper
166 100
165 98.7 77.0 115.6
167 13.4 10.9 16.3

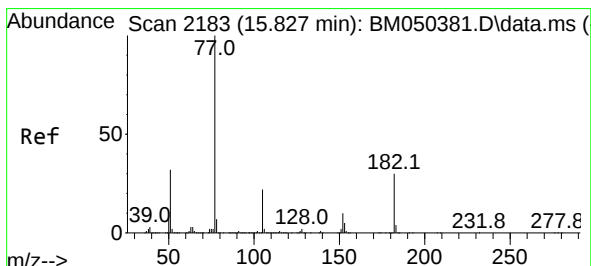
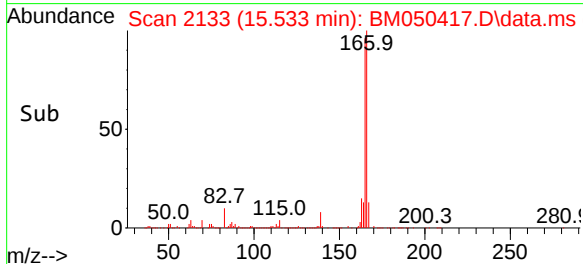
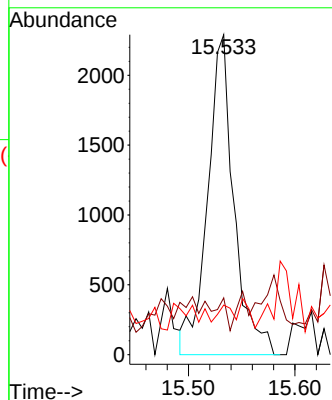
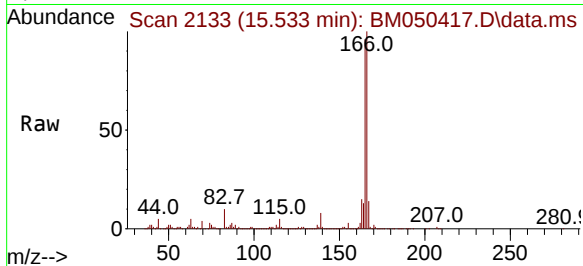




#62
4-Nitroaniline
Concen: 2.855 ng
RT: 15.533 min Scan# 2133
Delta R.T. -0.012 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

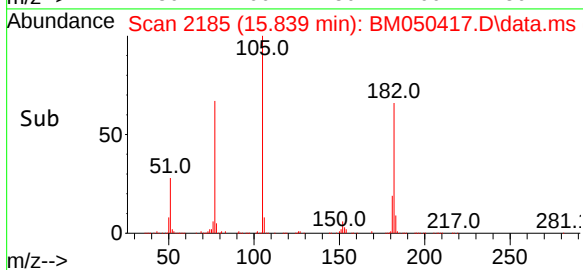
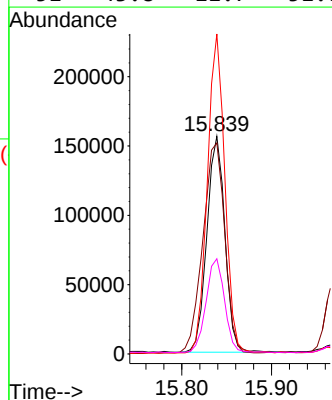
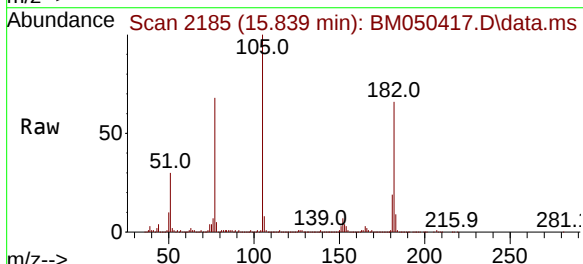
Instrument :
BNA_M
ClientSampleId :
VNJ-204

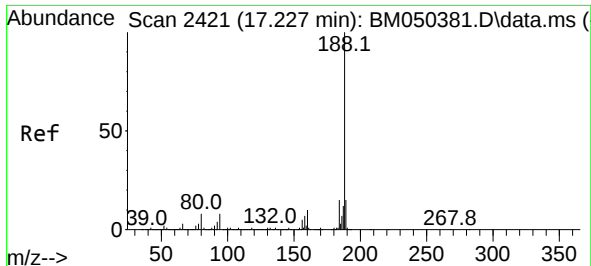
Tgt Ion:138 Resp: 3920
Ion Ratio Lower Upper
138 100
92 17.8 24.5 64.5#
108 15.5 52.5 92.5#



#63
Azobenzene
Concen: 4.226 ng
RT: 15.839 min Scan# 2185
Delta R.T. 0.012 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion: 77 Resp: 217892
Ion Ratio Lower Upper
77 100
182 97.0 10.0 50.0#
105 147.0 2.0 42.0#
51 43.8 11.7 51.7

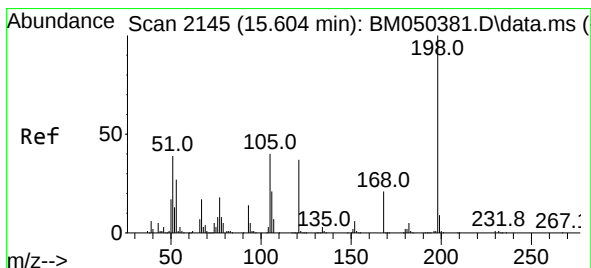
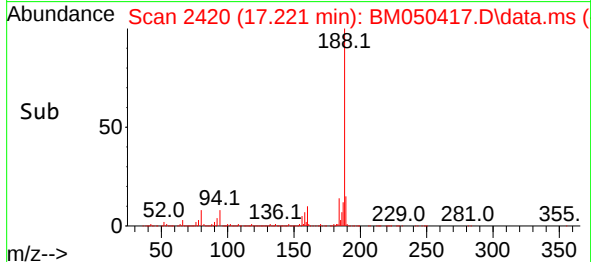
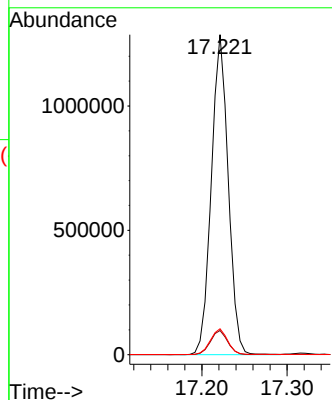
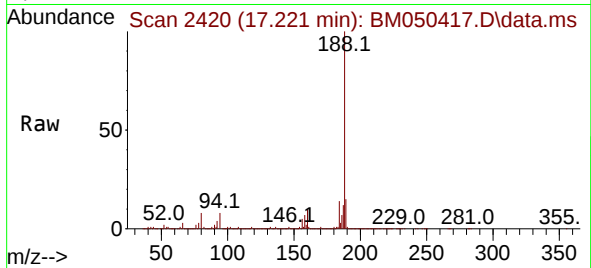




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 2421
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

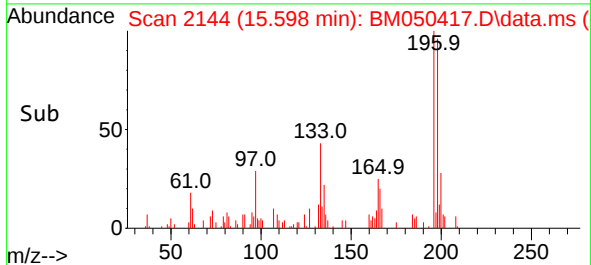
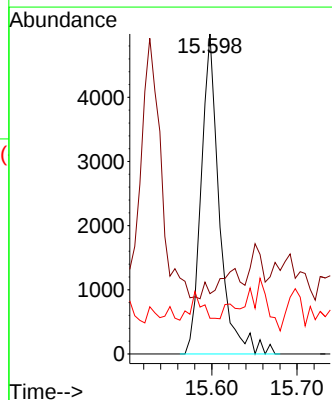
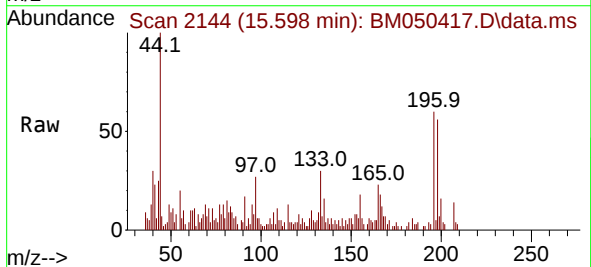
Instrument :
BNA_M
ClientSampleId :
VNJ-204

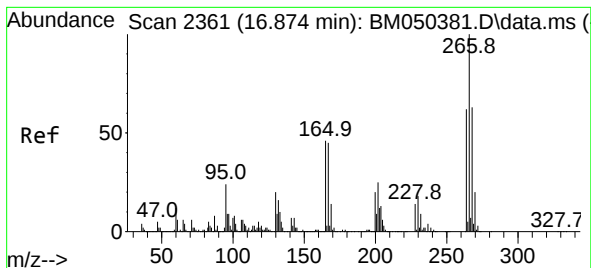
Tgt Ion:188 Resp: 1769303
Ion Ratio Lower Upper
188 100
94 7.6 6.0 9.0
80 8.1 6.5 9.7



#65
4,6-Dinitro-2-methylphenol
Concen: 6.976 ng
RT: 15.598 min Scan# 2144
Delta R.T. -0.006 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion:198 Resp: 7371
Ion Ratio Lower Upper
198 100
51 18.8 26.6 66.6#
105 11.2 20.9 60.9#





#70

Pentachlorophenol

Concen: 6.559 ng

RT: 16.868 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

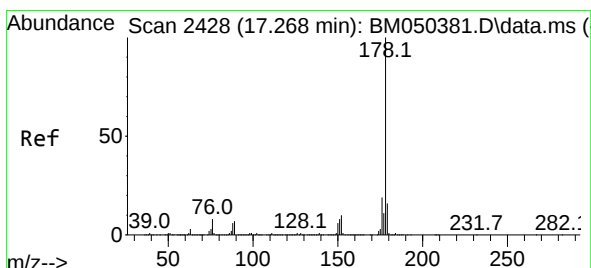
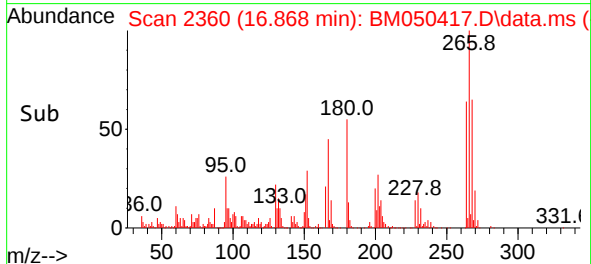
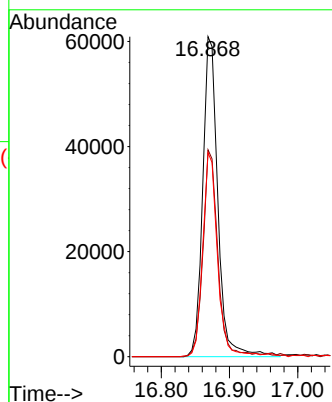
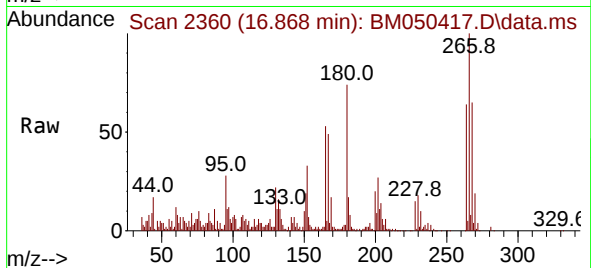
Tgt Ion:266 Resp: 94013

Ion Ratio Lower Upper

266 100

268 64.6 50.5 75.7

264 63.8 49.9 74.9



#71

Phenanthrene

Concen: 28.599 ng

RT: 17.262 min Scan# 2427

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

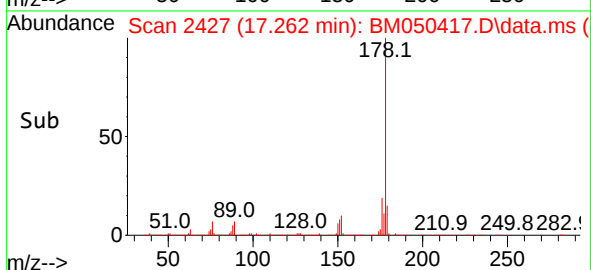
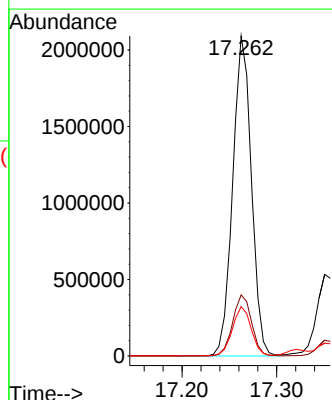
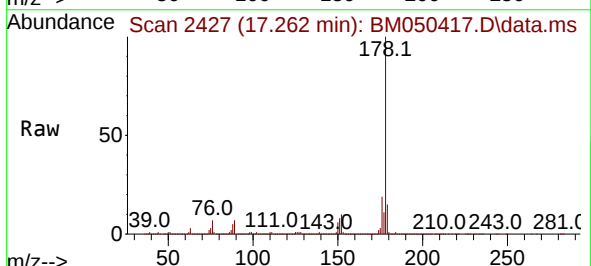
Tgt Ion:178 Resp: 2863285

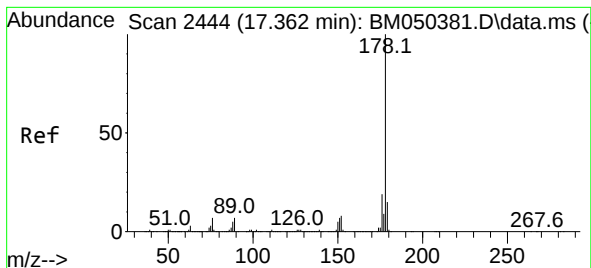
Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

179 15.4 12.5 18.7





#72

Anthracene

Concen: 7.786 ng

RT: 17.351 min Scan# 2444

Delta R.T. -0.012 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

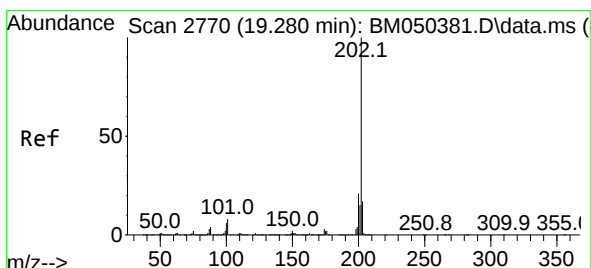
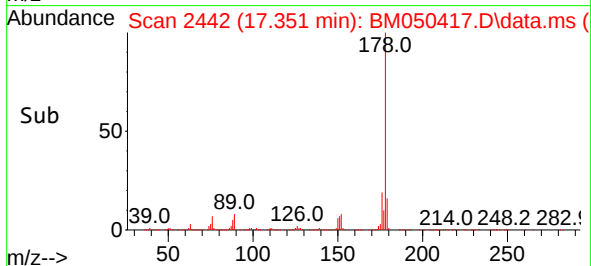
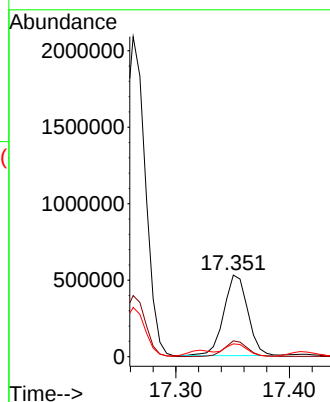
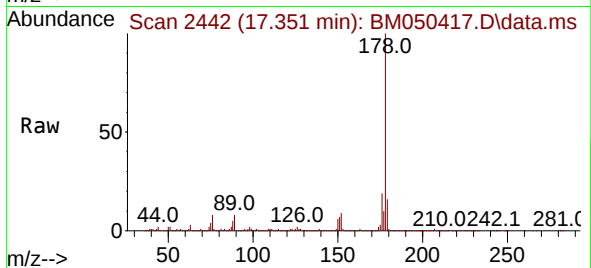
Tgt Ion:178 Resp: 775946

Ion Ratio Lower Upper

178 100

176 19.5 14.9 22.3

179 15.7 12.2 18.4



#75

Fluoranthene

Concen: 39.882 ng

RT: 19.268 min Scan# 2768

Delta R.T. -0.012 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

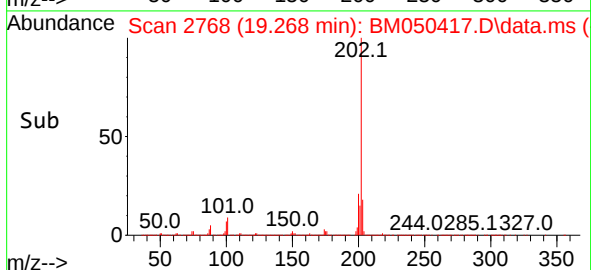
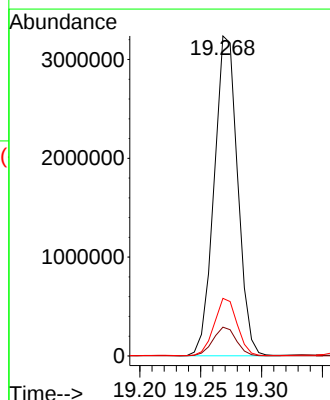
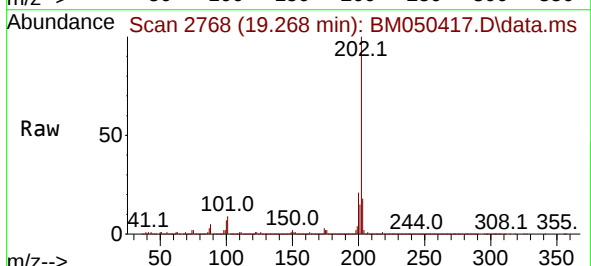
Tgt Ion:202 Resp: 4340702

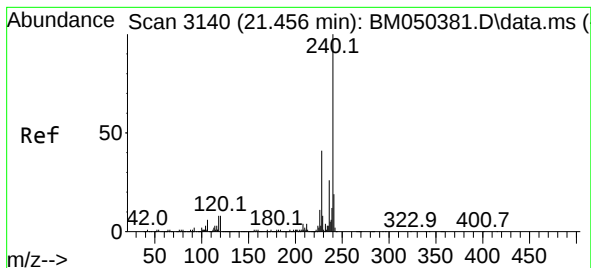
Ion Ratio Lower Upper

202 100

101 9.0 0.0 28.3

203 18.0 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.450 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

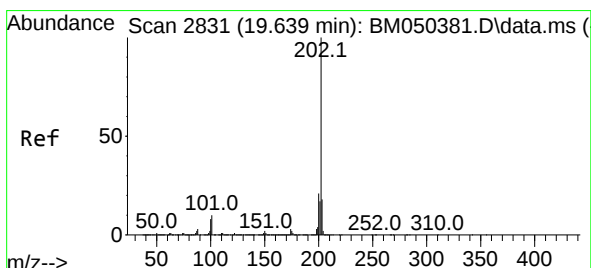
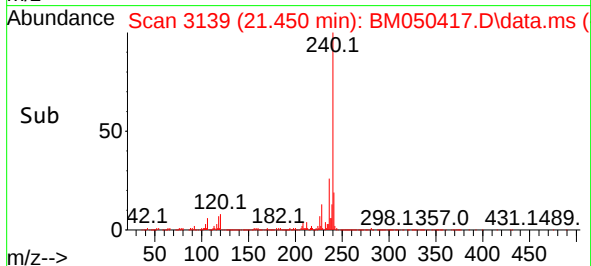
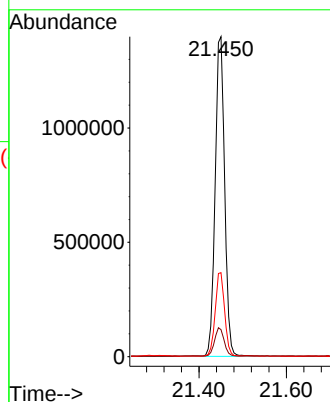
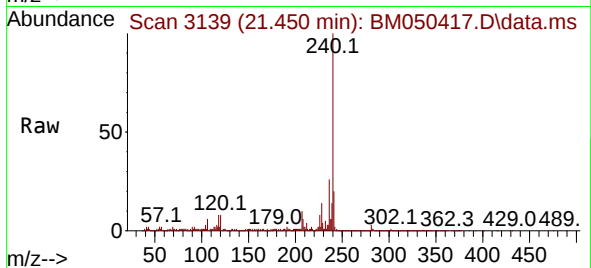
Tgt Ion:240 Resp: 2110668

Ion Ratio Lower Upper

240 100

120 8.4 6.7 10.1

236 26.3 20.7 31.1



#78

Pyrene

Concen: 27.516 ng

RT: 19.633 min Scan# 2830

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

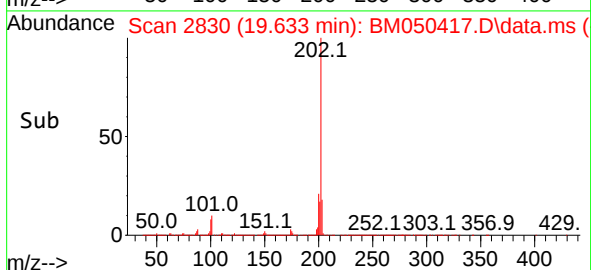
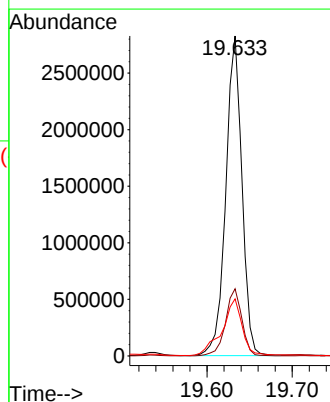
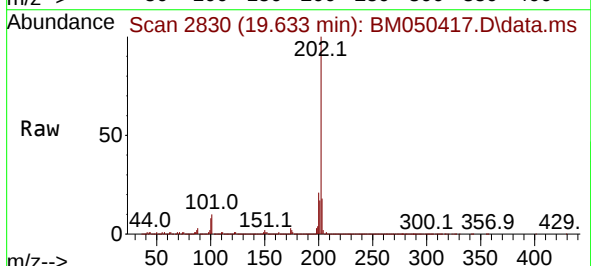
Tgt Ion:202 Resp: 3719541

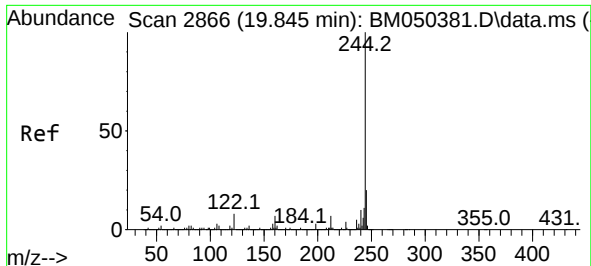
Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 17.9 14.1 21.1

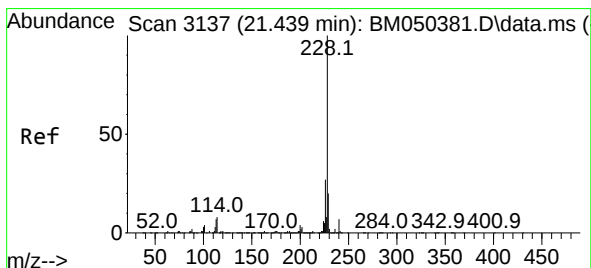
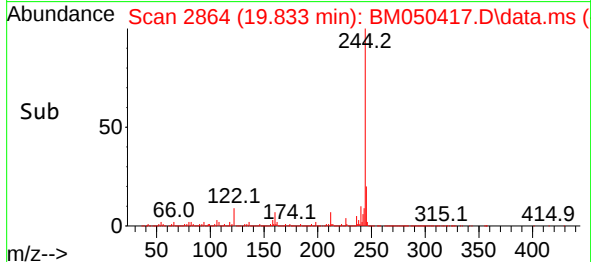
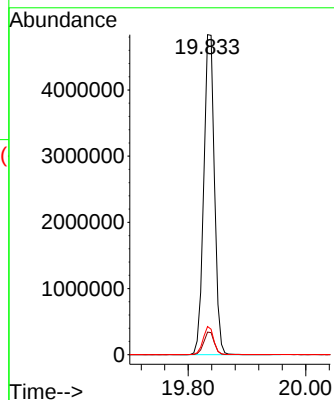
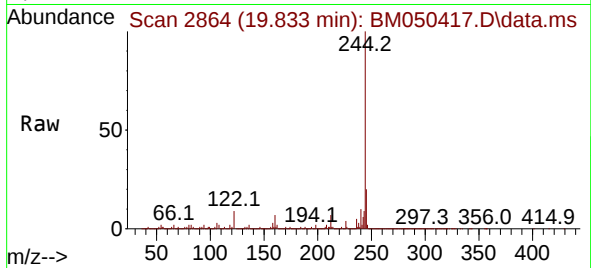




#79
 Terphenyl-d14
 Concen: 50.693 ng
 RT: 19.833 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM050417.D
 Acq: 11 Jul 2025 17:48

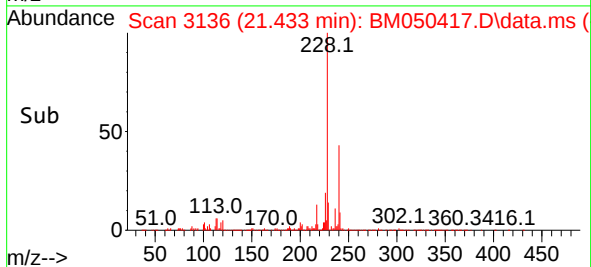
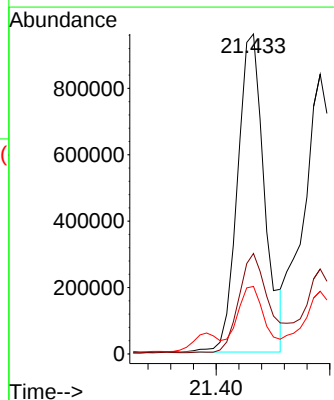
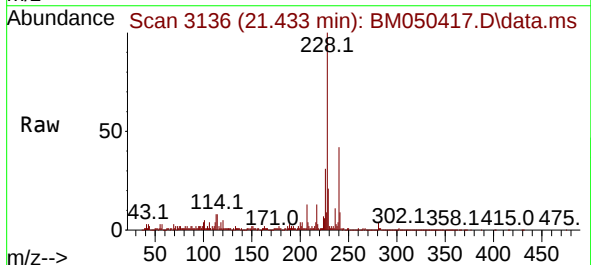
Instrument :
 BNA_M
 ClientSampleId :
 VNJ-204

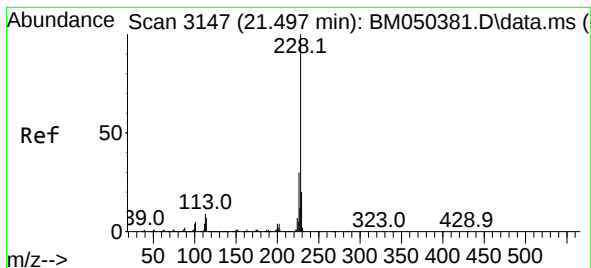
Tgt Ion:244 Resp: 6081165
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.7 8.5
 122 8.8 6.2 9.2



#81
 Benzo(a)anthracene
 Concen: 11.476 ng
 RT: 21.433 min Scan# 3136
 Delta R.T. -0.006 min
 Lab File: BM050417.D
 Acq: 11 Jul 2025 17:48

Tgt Ion:228 Resp: 1578184
 Ion Ratio Lower Upper
 228 100
 226 31.4 21.8 32.8
 229 21.1 16.0 24.0





#83

Chrysene

Concen: 11.587 ng

RT: 21.492 min Scan# 3147

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

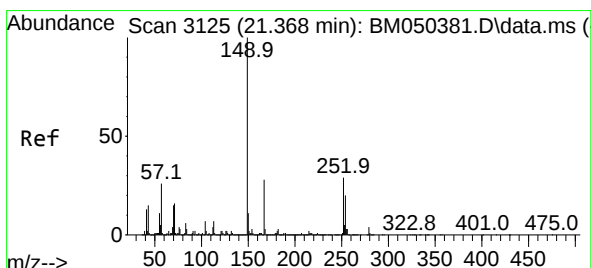
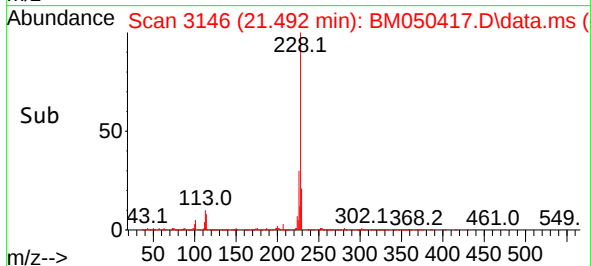
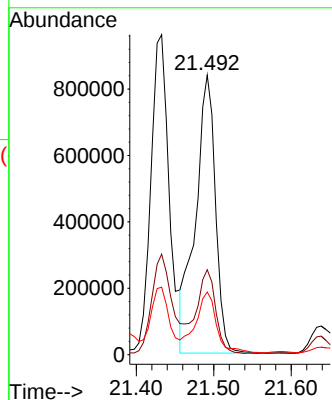
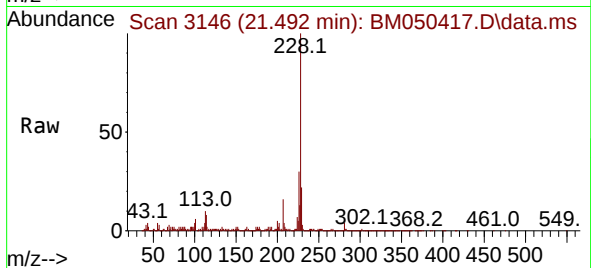
Tgt Ion:228 Resp: 1503050

Ion Ratio Lower Upper

228 100

226 30.4 24.2 36.4

229 22.4 15.8 23.6



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.828 ng

RT: 21.362 min Scan# 3124

Delta R.T. -0.006 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

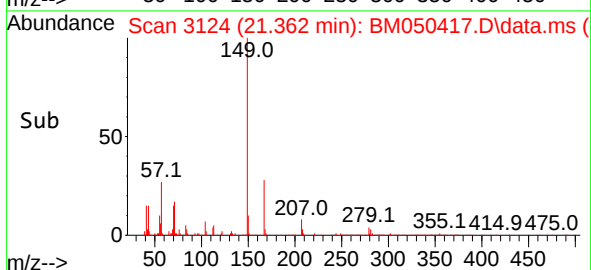
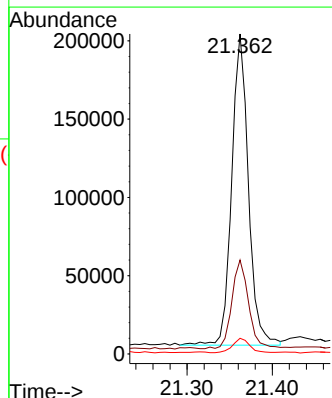
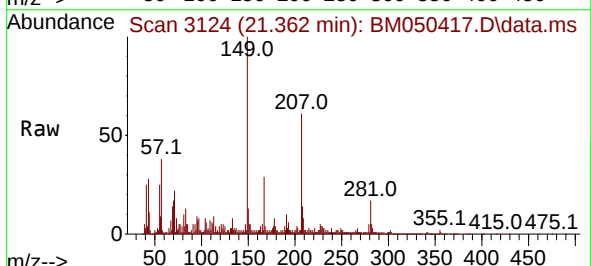
Tgt Ion:149 Resp: 270891

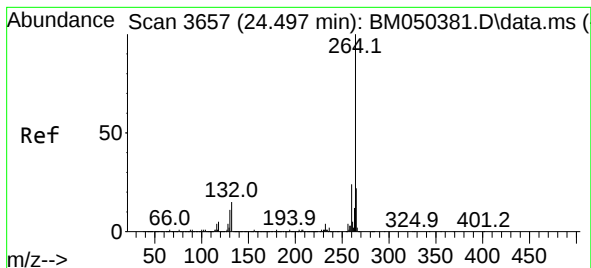
Ion Ratio Lower Upper

149 100

167 29.4 22.7 34.1

279 4.9 3.5 5.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.485 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

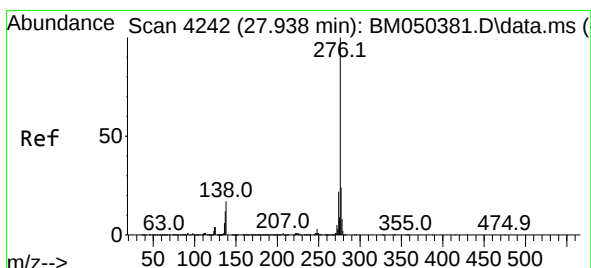
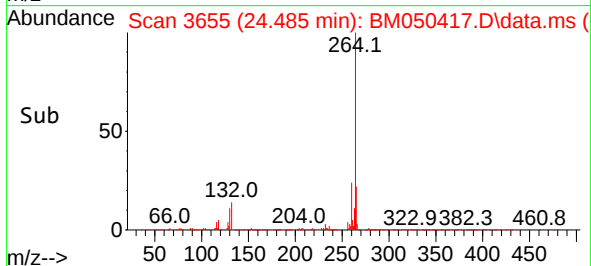
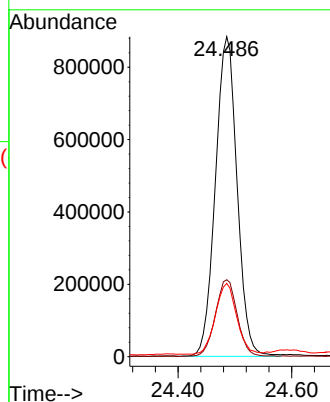
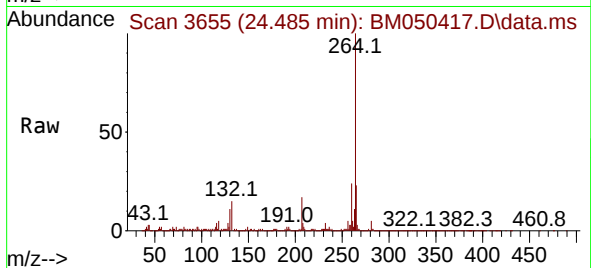
Tgt Ion:264 Resp: 2341426

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

265 22.9 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.166 ng

RT: 27.915 min Scan# 4238

Delta R.T. -0.023 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

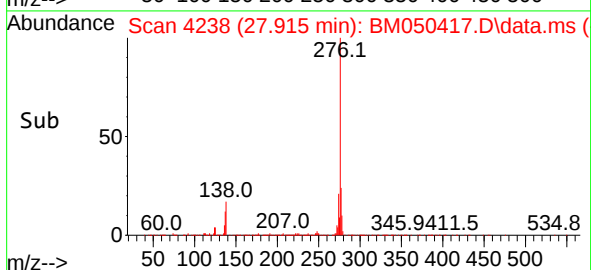
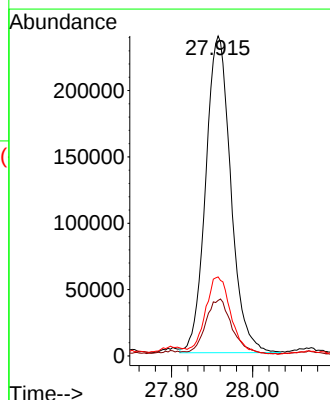
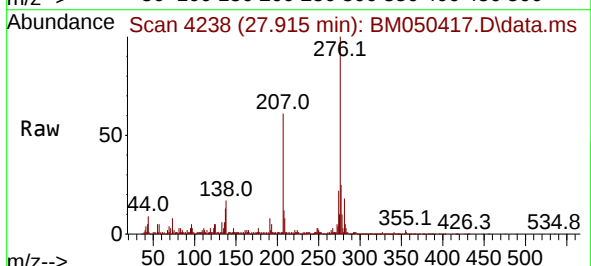
Tgt Ion:276 Resp: 1026470

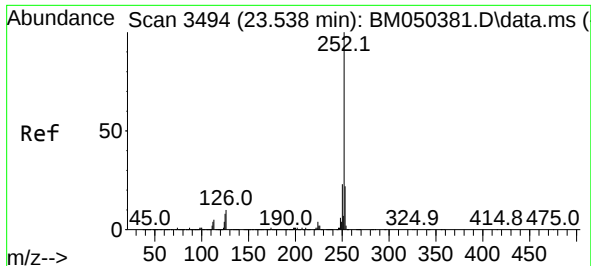
Ion Ratio Lower Upper

276 100

138 17.9 17.0 25.6

277 25.2 20.0 30.0

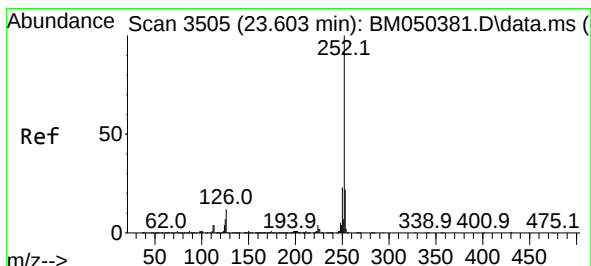
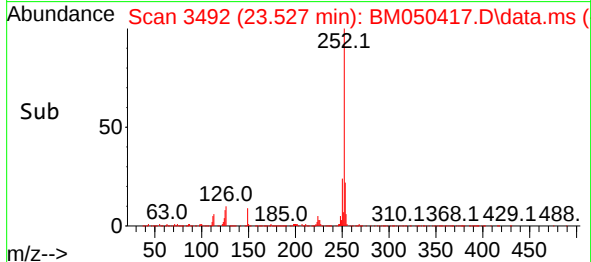
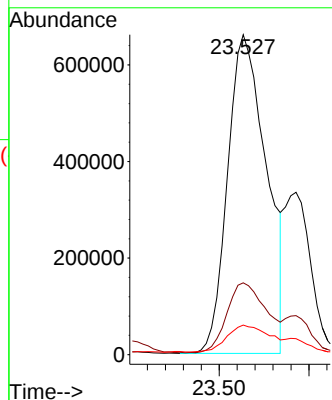
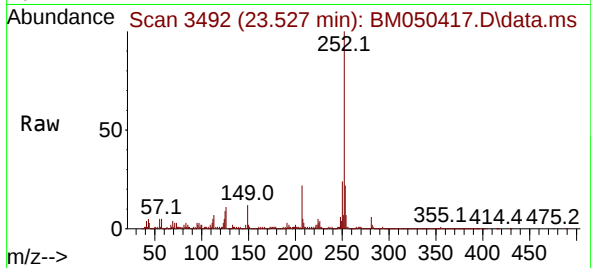




#88
Benzo(b)fluoranthene
Concen: 13.763 ng
RT: 23.527 min Scan# 3492
Delta R.T. -0.012 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

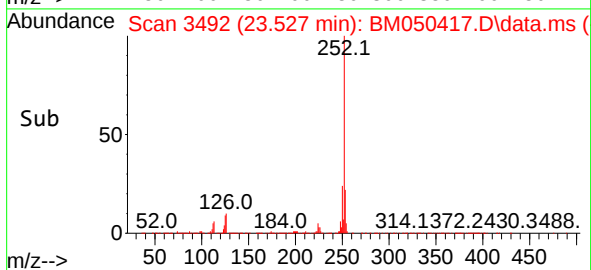
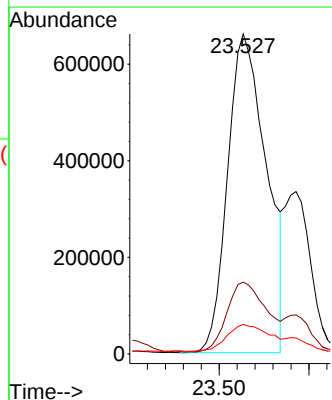
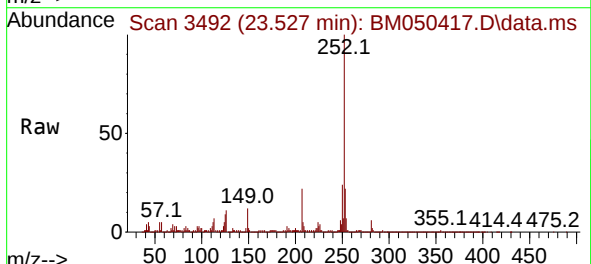
Instrument :
BNA_M
ClientSampleId :
VNJ-204

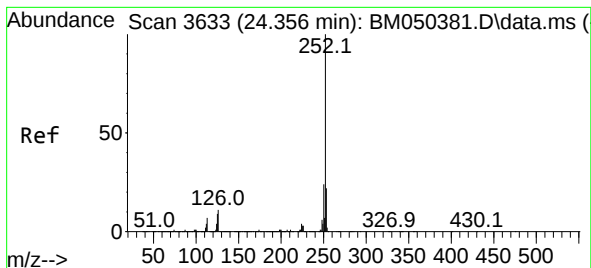
Tgt Ion:252 Resp: 1982140
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.6
125 9.2 6.3 9.5



#89
Benzo(k)fluoranthene
Concen: 13.264 ng
RT: 23.527 min Scan# 3492
Delta R.T. -0.076 min
Lab File: BM050417.D
Acq: 11 Jul 2025 17:48

Tgt Ion:252 Resp: 1982140
Ion Ratio Lower Upper
252 100
253 22.5 17.6 26.4
125 9.2 6.2 9.2#





#90

Benzo(a)pyrene

Concen: 10.101 ng

RT: 24.344 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Instrument :

BNA_M

ClientSampleId :

VNJ-204

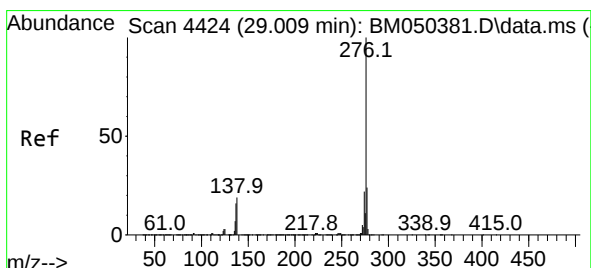
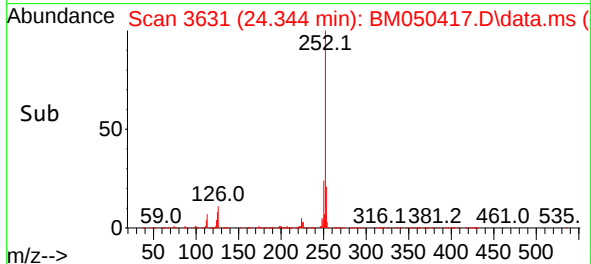
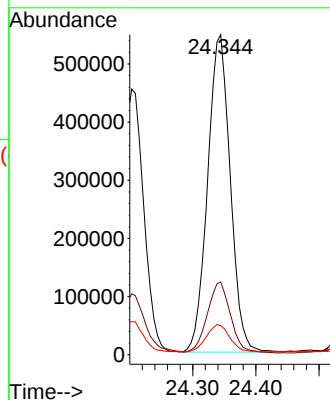
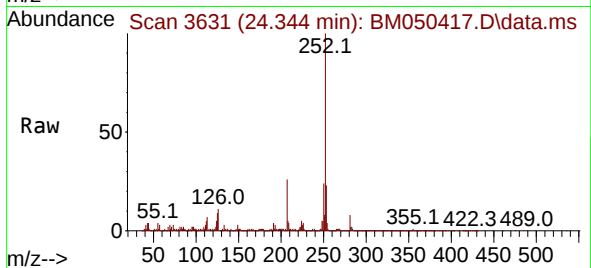
Tgt Ion:252 Resp: 1361843

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.6

125 9.1 7.0 10.4



#92

Benzo(g,h,i)perylene

Concen: 7.673 ng

RT: 28.985 min Scan# 4420

Delta R.T. -0.023 min

Lab File: BM050417.D

Acq: 11 Jul 2025 17:48

Tgt Ion:276 Resp: 1016748

Ion Ratio Lower Upper

276 100

277 23.8 19.1 28.7

138 18.2 14.9 22.3

