

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022825\
 Data File : BM049682.D
 Acq On : 28 Feb 2025 17:15
 Operator : RC/JU
 Sample : Q1458-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SP-SOIL

Quant Time: Feb 28 21:59:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 04:55:28 2025
 Response via : Initial Calibration

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

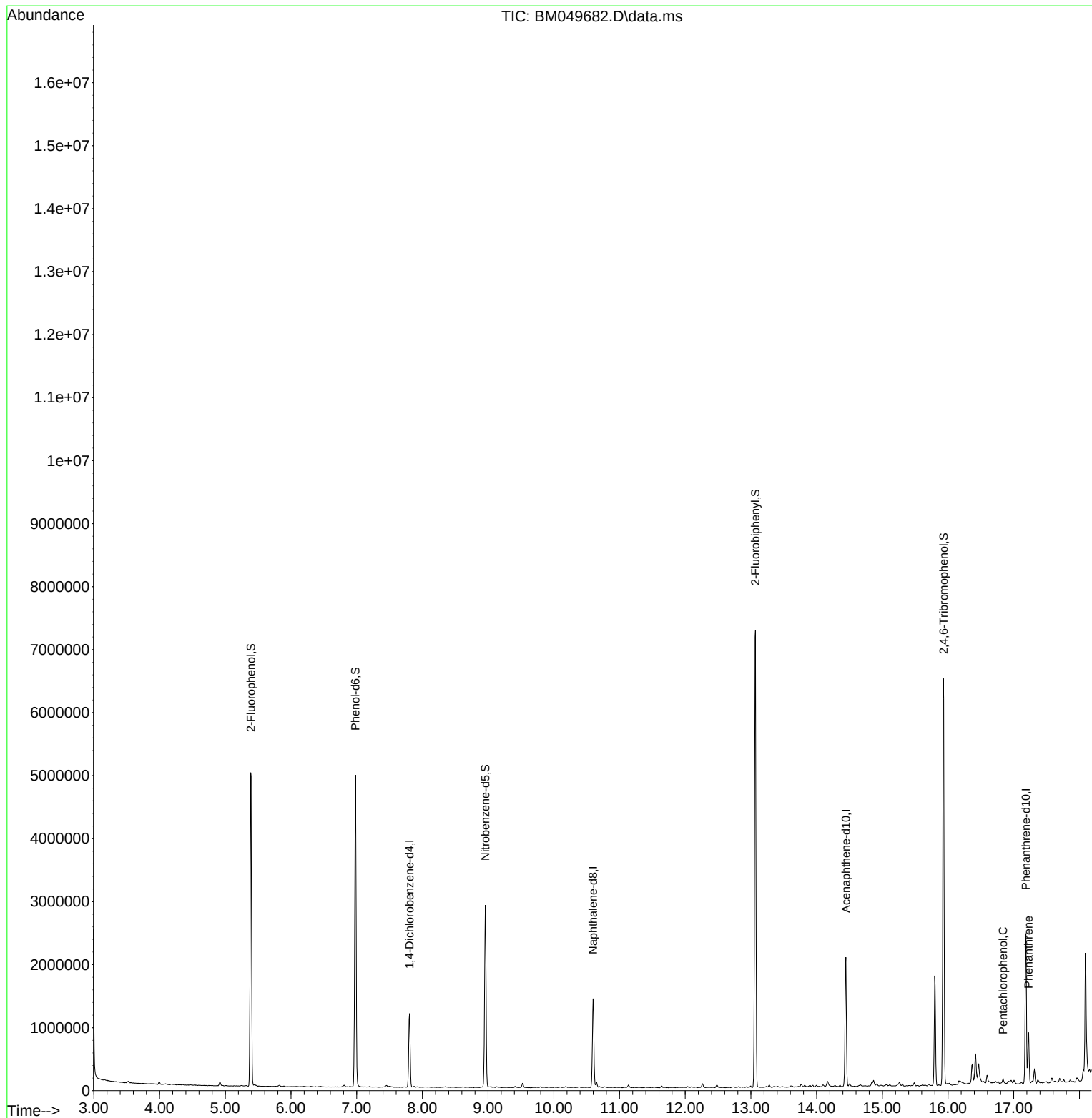
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	327502	20.000	ng	-0.02
21) Naphthalene-d8	10.598	136	1135421	20.000	ng	#-0.03
39) Acenaphthene-d10	14.445	164	729265	20.000	ng	-0.02
64) Phenanthrene-d10	17.186	188	1436553	20.000	ng	-0.02
76) Chrysene-d12	21.421	240	1529138	20.000	ng	-0.02
86) Perylene-d12	24.438	264	1617229	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.393	112	2190147	107.540	ng	0.00
7) Phenol-d6	6.981	99	2763702	103.580	ng	0.00
23) Nitrobenzene-d5	8.957	82	1617393	73.272	ng	-0.02
42) 2,4,6-Tribromophenol	15.933	330	1217447	140.889	ng	-0.02
45) 2-Fluorobiphenyl	13.069	172	3862066	68.605	ng	-0.02
79) Terphenyl-d14	19.809	244	5952851	59.447	ng	-0.02
Target Compounds						
						Qvalue
70) Pentachlorophenol	16.839	266	6514	8.168	ng	93
71) Phenanthrene	17.227	178	510309	6.235	ng	99
75) Fluoranthene	19.239	202	1164688	12.156	ng	99
78) Pyrene	19.603	202	1288825	11.256	ng	100
81) Benzo(a)anthracene	21.403	228	595079	5.742	ng	97
83) Chrysene	21.462	228	564300m	5.812	ng	
87) Indeno(1,2,3-cd)pyrene	27.821	276	325613	3.687	ng	97
88) Benzo(b)fluoranthene	23.486	252	628469	5.649	ng	97
89) Benzo(k)fluoranthene	23.544	252	280106m	2.592	ng	
90) Benzo(a)pyrene	24.291	252	493736	5.600	ng	98
92) Benzo(g,h,i)perylene	28.885	276	316018	4.053	ng	99

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

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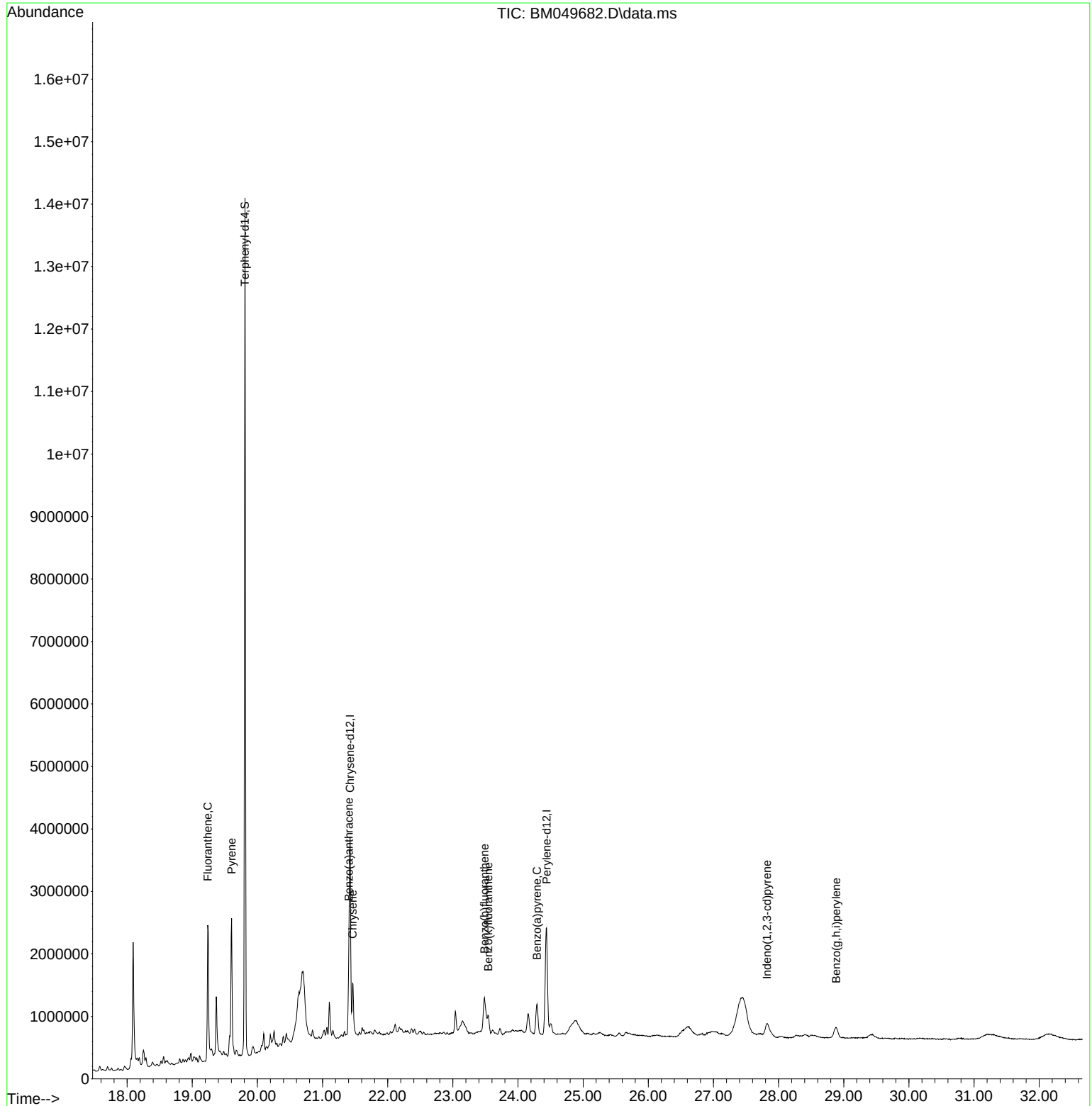
Quant Time: Feb 28 21:59:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 04:55:28 2025
Response via : Initial Calibration

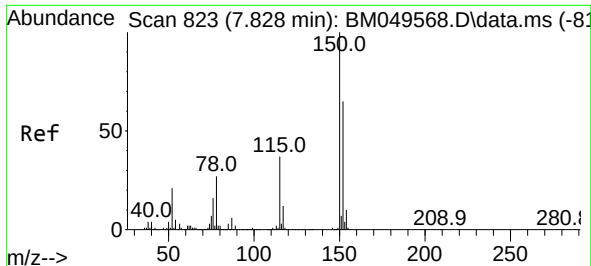


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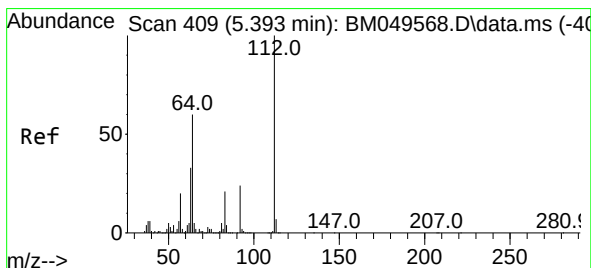
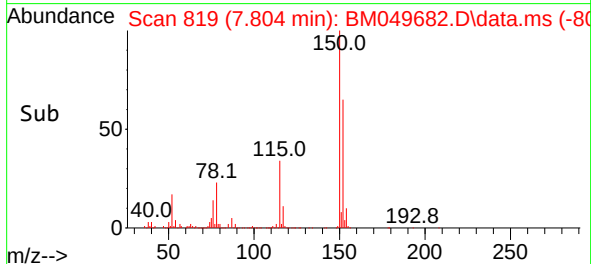
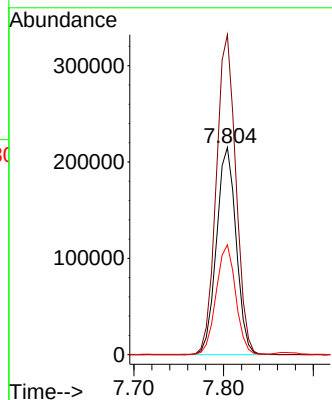
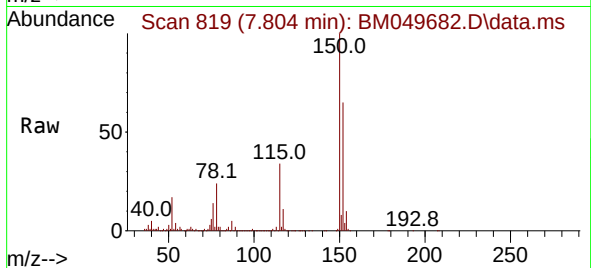




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 81
Delta R.T. -0.024 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

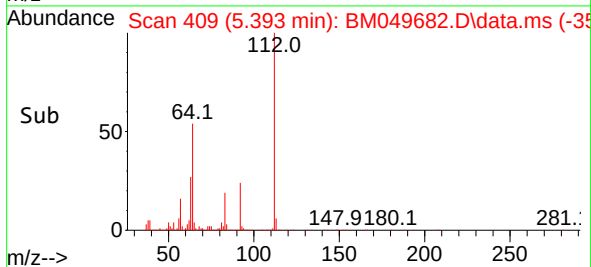
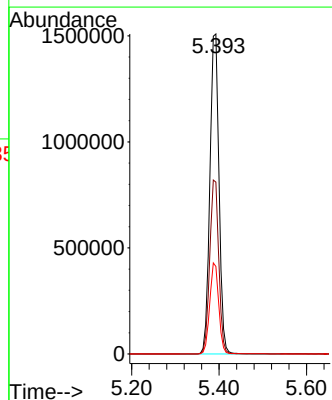
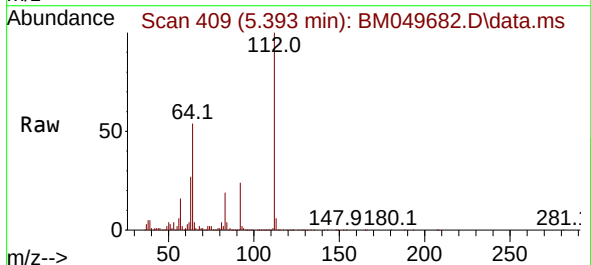
Instrument :
BNA_M
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SP-SOIL

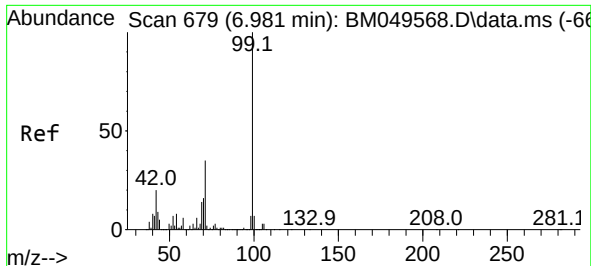
Tgt Ion:152 Resp: 327502
Ion Ratio Lower Upper
152 100
150 154.4 122.6 184.0
115 53.1 45.4 68.0



#5
2-Fluorophenol
Concen: 107.540 ng
RT: 5.393 min Scan# 409
Delta R.T. 0.000 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:112 Resp: 2190147
Ion Ratio Lower Upper
112 100
64 53.7 47.8 71.8
63 27.4 26.2 39.4



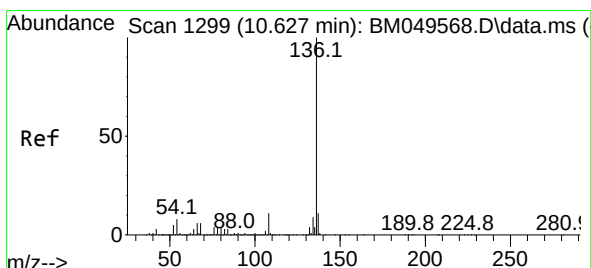
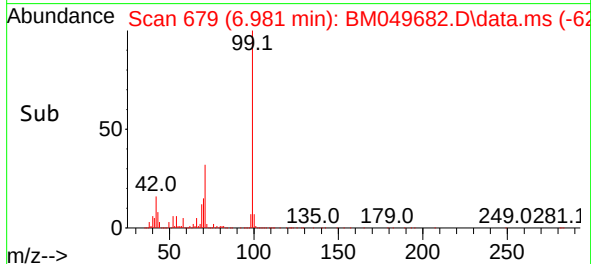
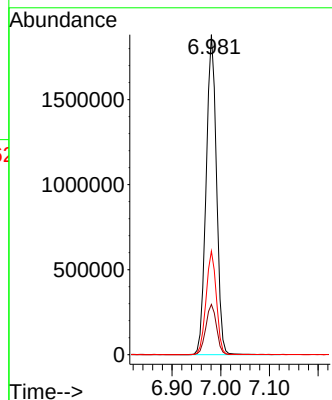
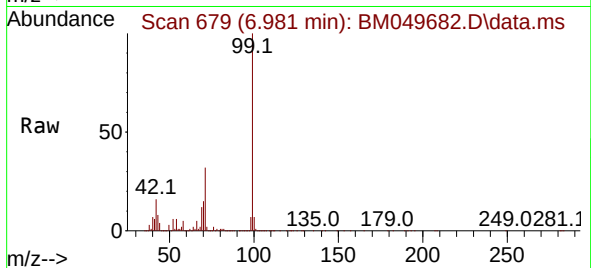


#7
Phenol-d6
Concen: 103.580 ng
RT: 6.981 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Instrument :
BNA_M
ClientSampleId :
SP-SOIL

Tgt Ion: 99 Resp: 2763702

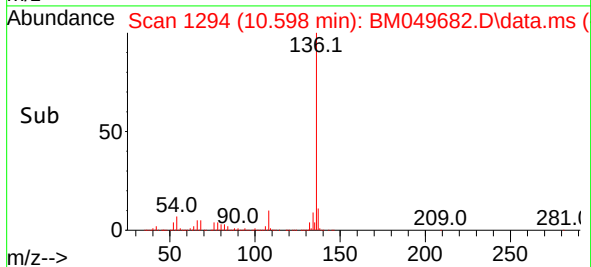
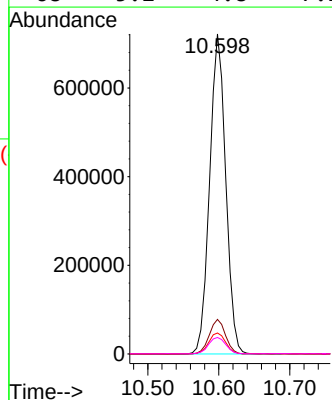
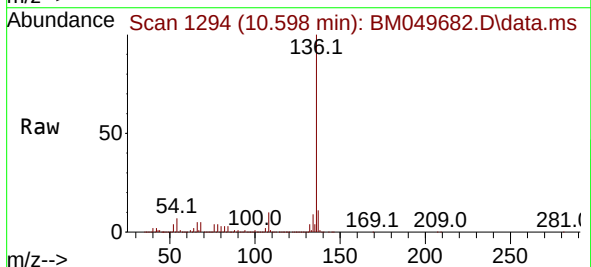
Ion	Ratio	Lower	Upper
99	100		
42	15.7	16.0	24.0#
71	32.3	27.8	41.6

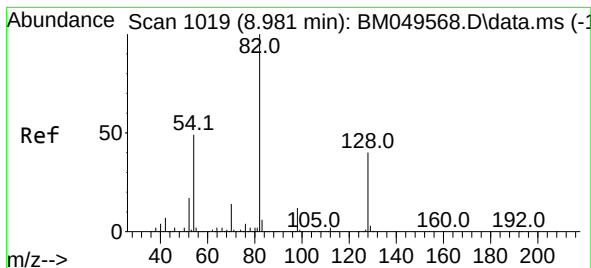


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.598 min Scan# 1294
Delta R.T. -0.029 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion: 136 Resp: 1135421

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	6.6	6.6	10.0#
68	5.2	4.8	7.2





#23

Nitrobenzene-d5

Concen: 73.272 ng

RT: 8.957 min Scan# 1015

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

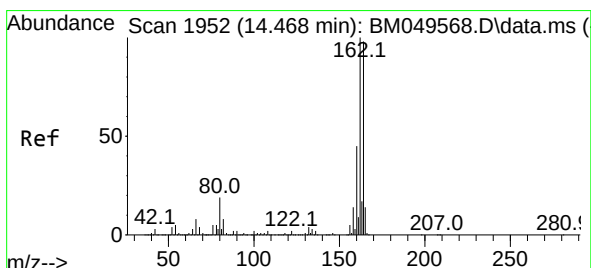
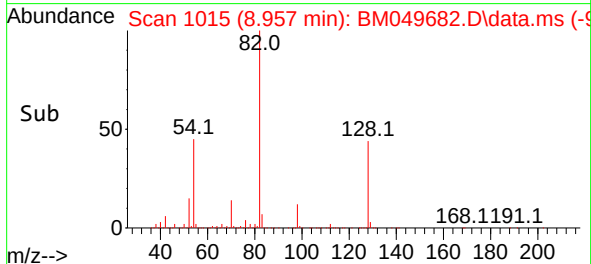
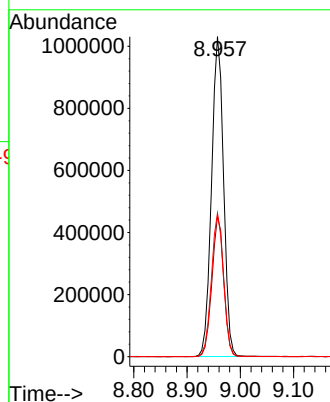
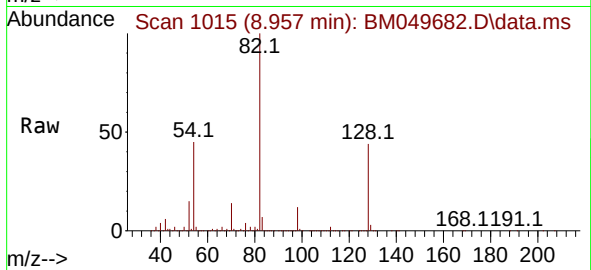
Tgt Ion: 82 Resp: 1617393

Ion Ratio Lower Upper

82 100

128 44.0 31.6 47.4

54 44.9 39.4 59.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.445 min Scan# 1948

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

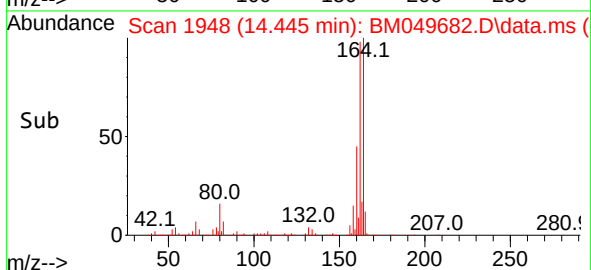
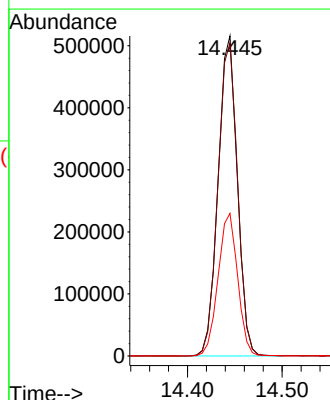
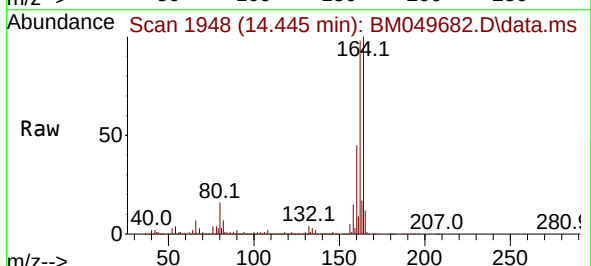
Tgt Ion:164 Resp: 729265

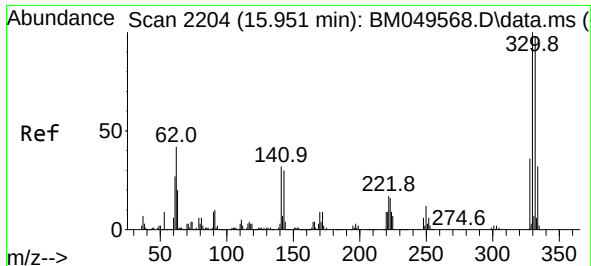
Ion Ratio Lower Upper

164 100

162 97.9 81.4 122.0

160 44.6 36.2 54.4

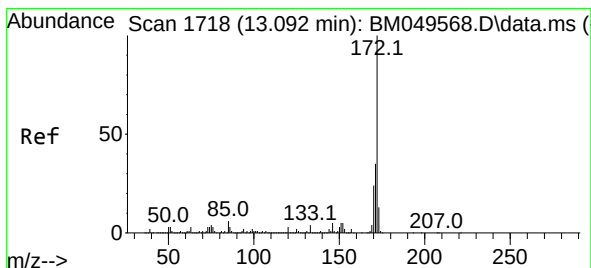
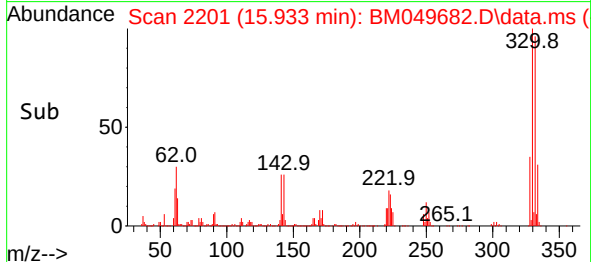
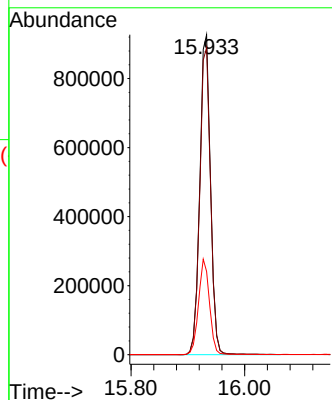
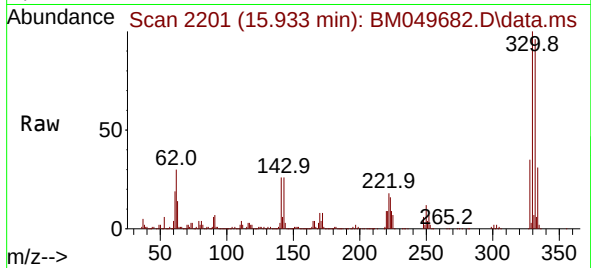




#42
2,4,6-Tribromophenol
Concen: 140.889 ng
RT: 15.933 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

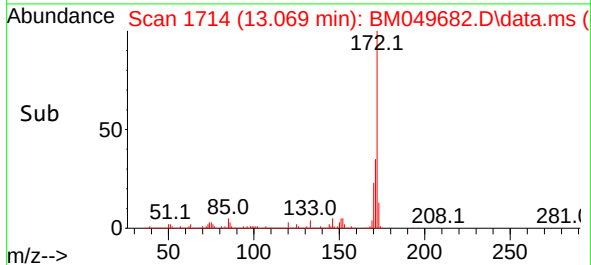
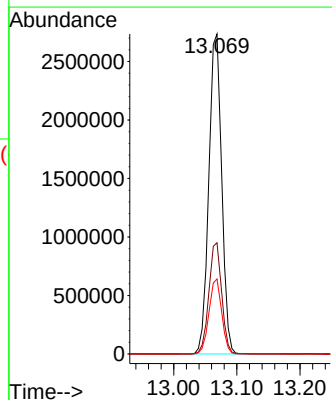
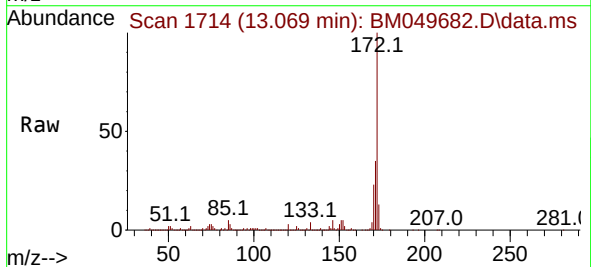
Instrument :
BNA_M
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SP-SOIL

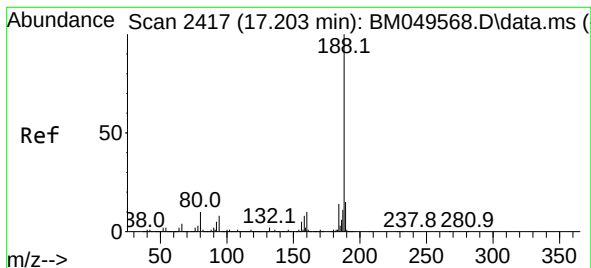
Tgt Ion:330 Resp: 1217447
Ion Ratio Lower Upper
330 100
332 96.8 77.3 115.9
141 30.4 28.2 42.2



#45
2-Fluorobiphenyl
Concen: 68.605 ng
RT: 13.069 min Scan# 1714
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:172 Resp: 3862066
Ion Ratio Lower Upper
172 100
171 34.8 28.0 42.0
170 23.5 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.186 min Scan# 2417

Delta R.T. -0.018 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

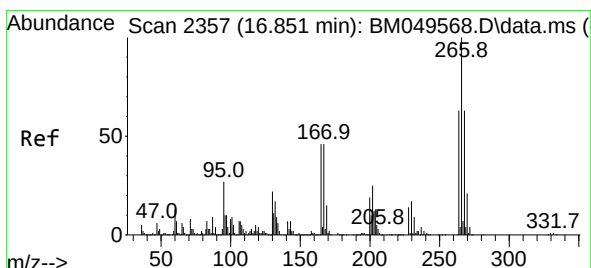
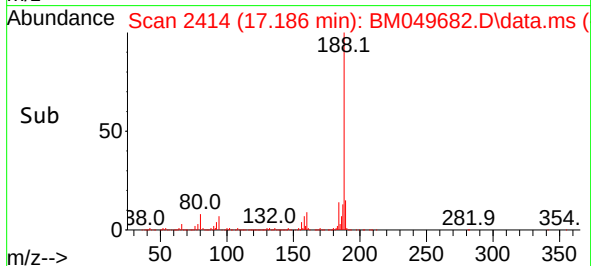
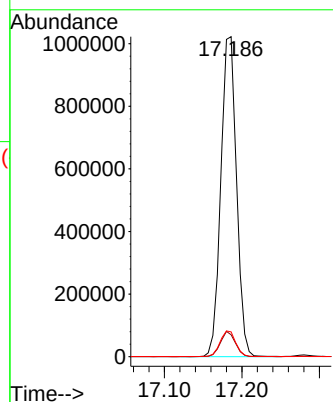
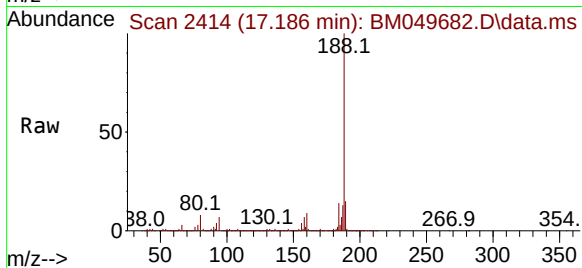
Tgt Ion:188 Resp: 1436553

Ion Ratio Lower Upper

188 100

94 6.9 6.7 10.1

80 7.7 7.7 11.5



#70

Pentachlorophenol

Concen: 8.168 ng

RT: 16.839 min Scan# 2355

Delta R.T. -0.012 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

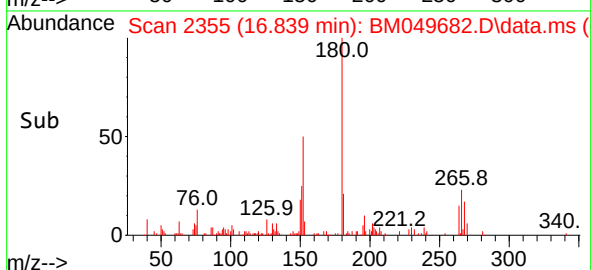
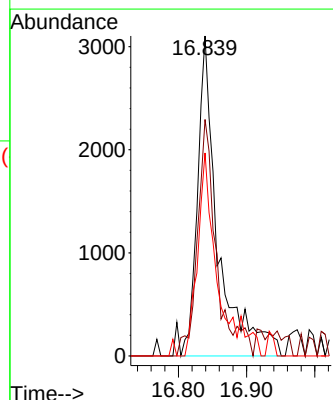
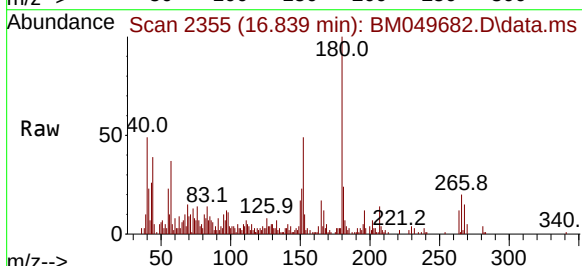
Tgt Ion:266 Resp: 6514

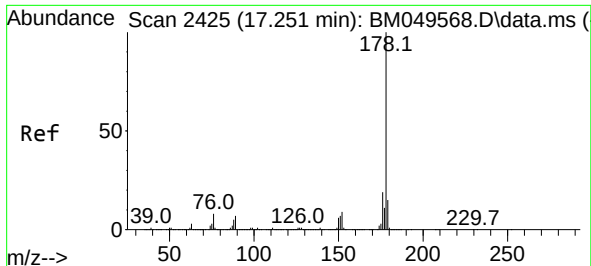
Ion Ratio Lower Upper

266 100

268 73.9 50.8 76.2

264 63.4 50.0 75.0

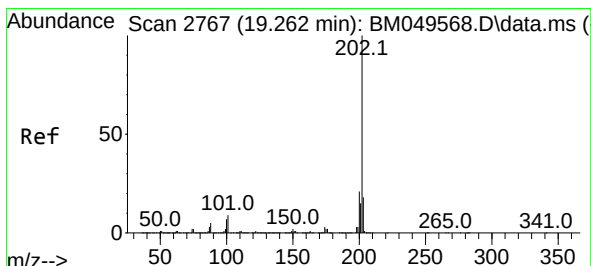
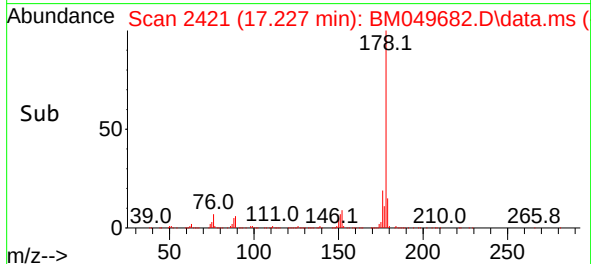
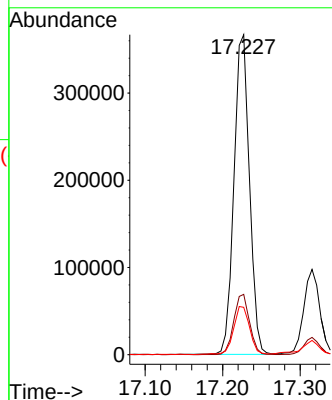
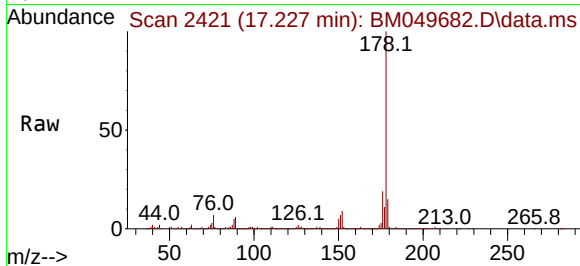




#71
Phenanthrene
Concen: 6.235 ng
RT: 17.227 min Scan# 2425
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

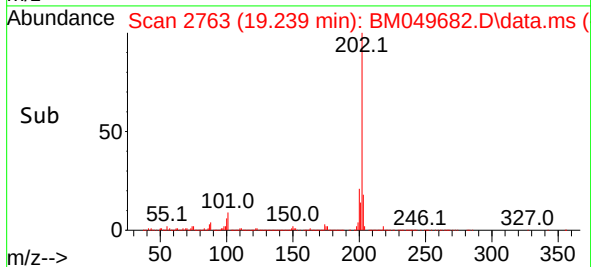
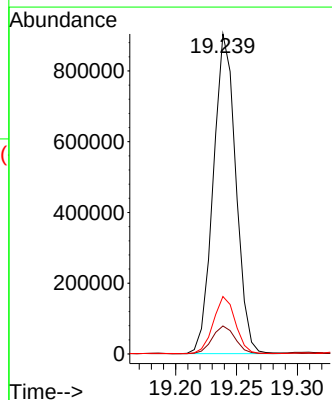
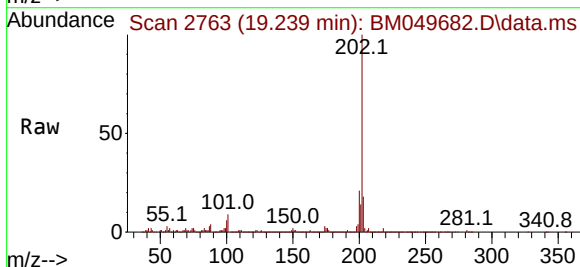
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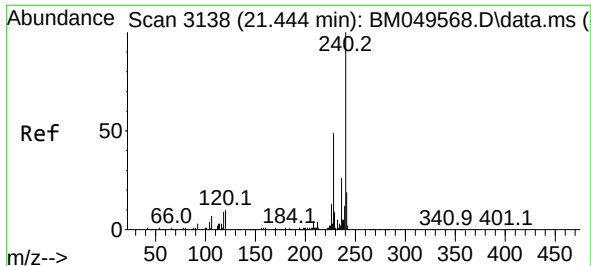
Tgt Ion:178 Resp: 510309
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 14.8 12.2 18.2



#75
Fluoranthene
Concen: 12.156 ng
RT: 19.239 min Scan# 2763
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:202 Resp: 1164688
Ion Ratio Lower Upper
202 100
101 8.8 0.0 29.1
203 17.9 0.0 37.5

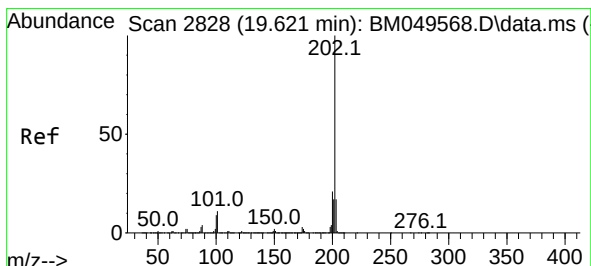
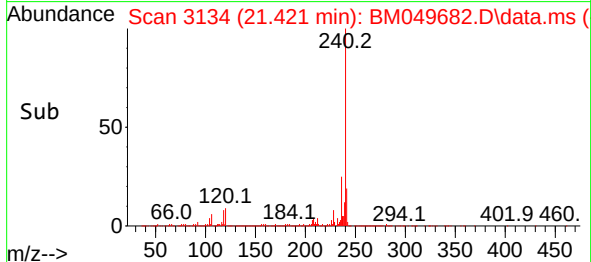
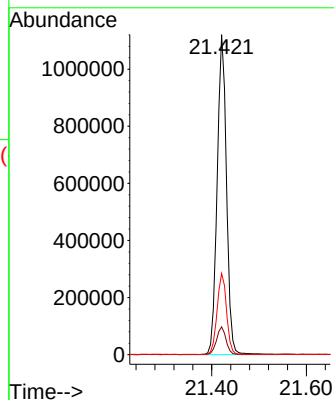
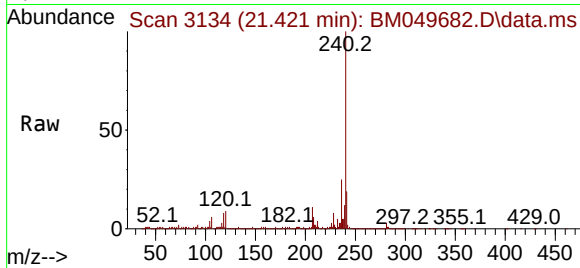




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.421 min Scan# 3138
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

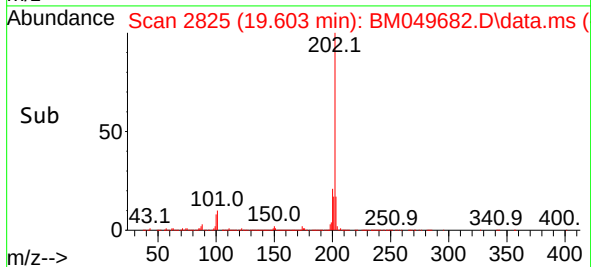
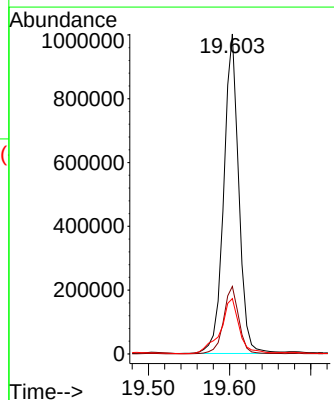
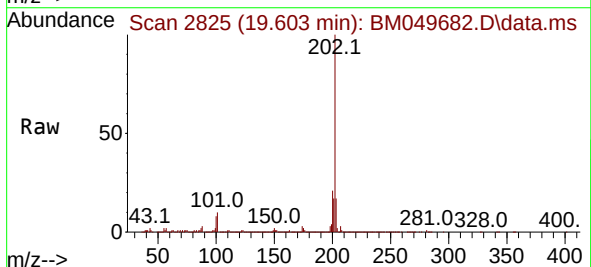
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

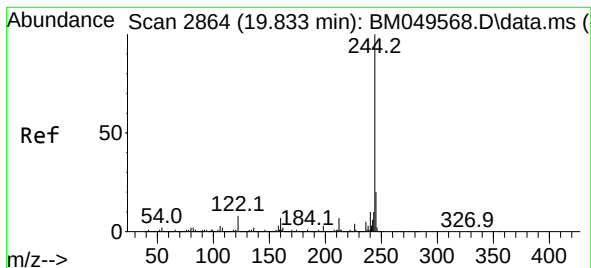
Tgt Ion:240 Resp: 1529138
Ion Ratio Lower Upper
240 100
120 8.7 7.8 11.8
236 25.4 20.6 31.0



#78
Pyrene
Concen: 11.256 ng
RT: 19.603 min Scan# 2825
Delta R.T. -0.018 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:202 Resp: 1288825
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.3 13.8 20.8





#79

Terphenyl-d14

Concen: 59.447 ng

RT: 19.809 min Scan# 21

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

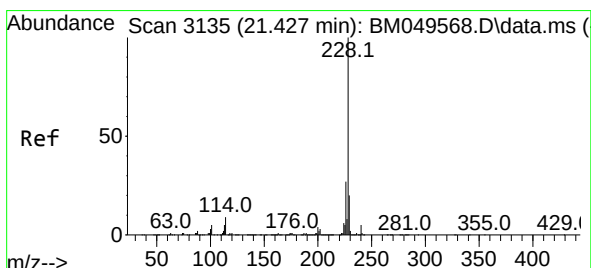
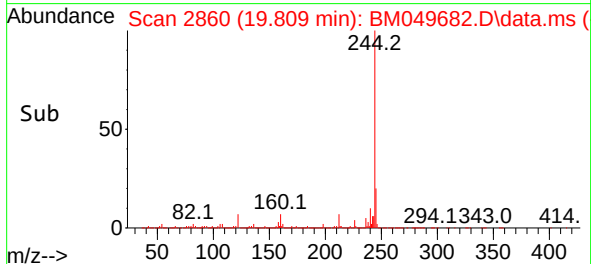
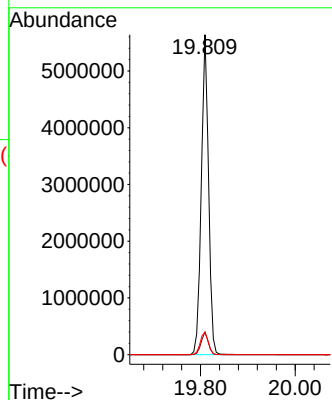
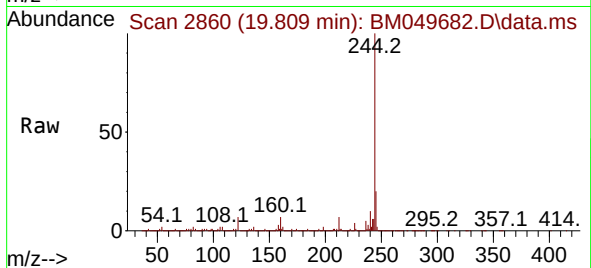
Tgt Ion:244 Resp: 5952851

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.6

122 7.1 6.2 9.2



#81

Benzo(a)anthracene

Concen: 5.742 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

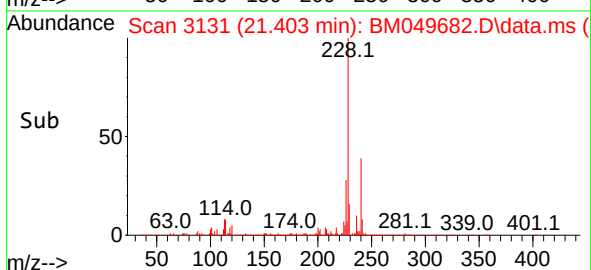
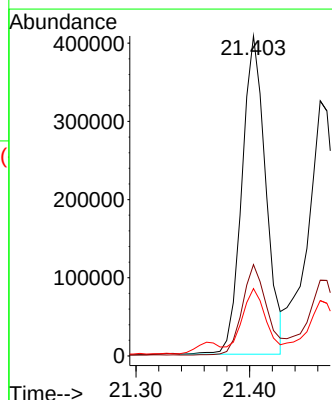
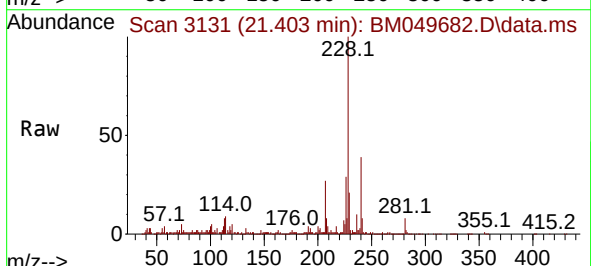
Tgt Ion:228 Resp: 595079

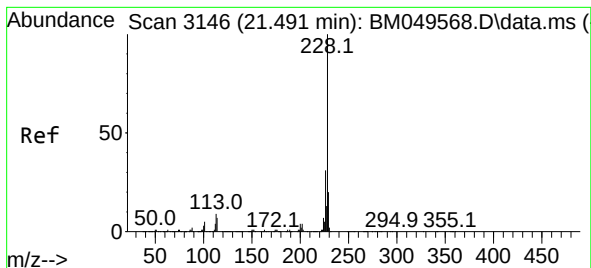
Ion Ratio Lower Upper

228 100

226 28.5 22.0 33.0

229 21.1 15.7 23.5





#83

Chrysene

Concen: 5.812 ng m

RT: 21.462 min Scan# 31

Delta R.T. -0.029 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

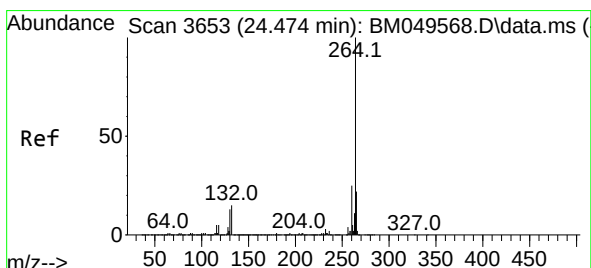
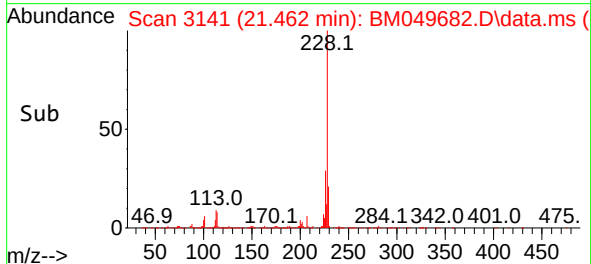
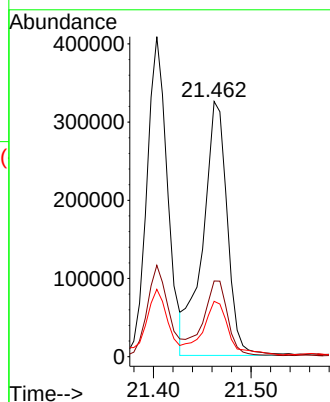
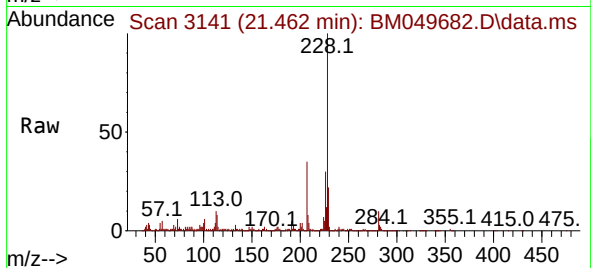
Tgt Ion:228 Resp: 564300

Ion Ratio Lower Upper

228 100

226 29.7 24.5 36.7

229 21.7 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.438 min Scan# 3647

Delta R.T. -0.035 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

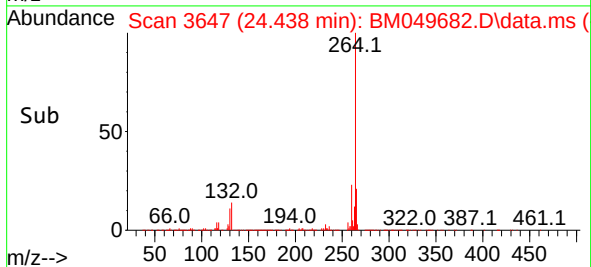
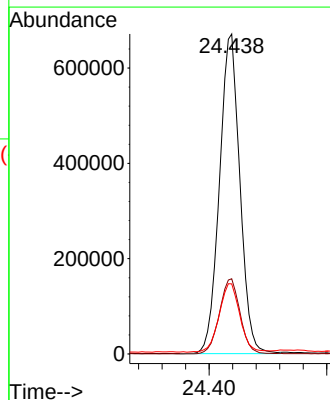
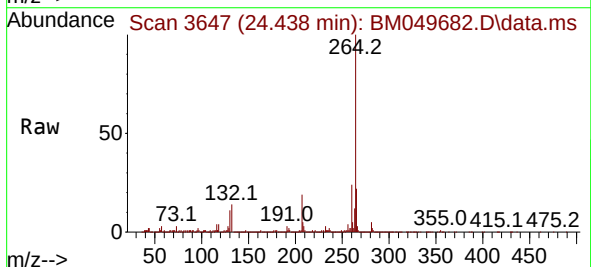
Tgt Ion:264 Resp: 1617229

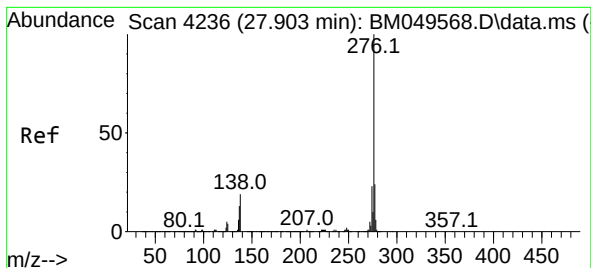
Ion Ratio Lower Upper

264 100

260 23.5 19.8 29.6

265 21.9 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.687 ng

RT: 27.821 min Scan# 41

Delta R.T. -0.082 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

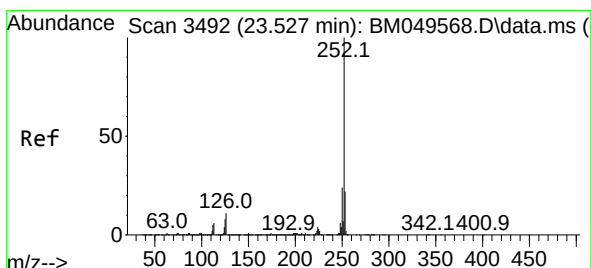
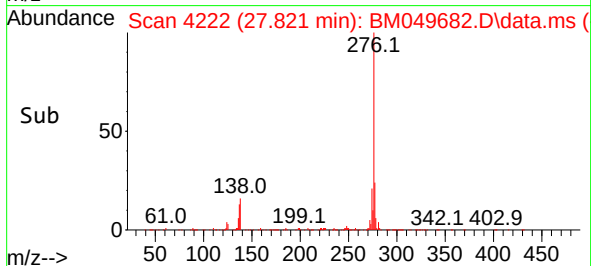
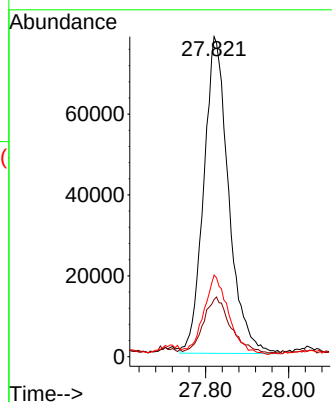
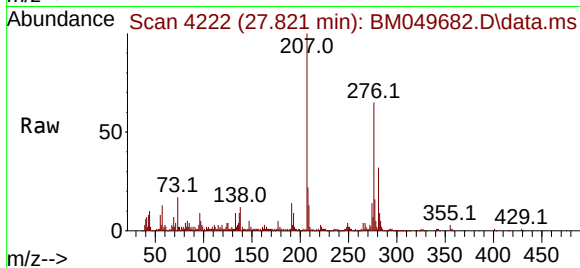
Tgt Ion:276 Resp: 325613

Ion Ratio Lower Upper

276 100

138 18.8 13.1 19.7

277 25.3 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 5.649 ng

RT: 23.486 min Scan# 3485

Delta R.T. -0.041 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

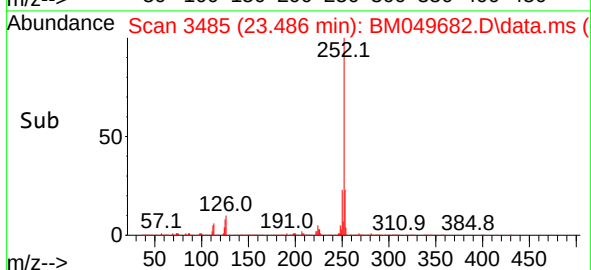
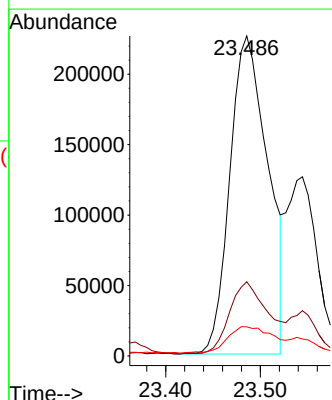
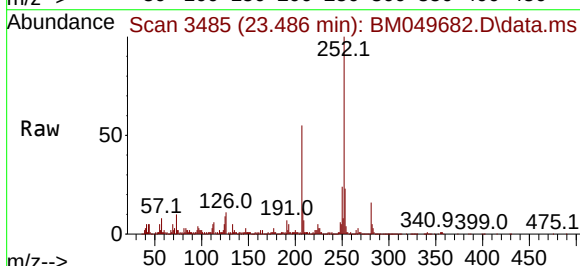
Tgt Ion:252 Resp: 628469

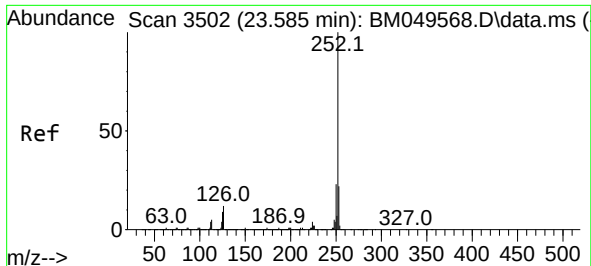
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.2

125 9.1 6.6 10.0

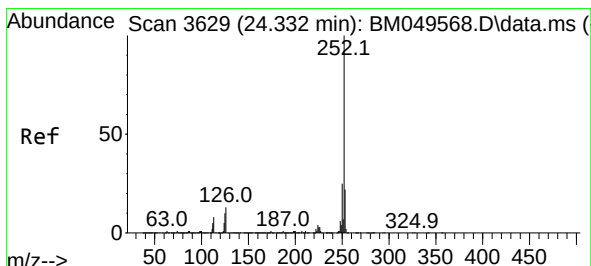
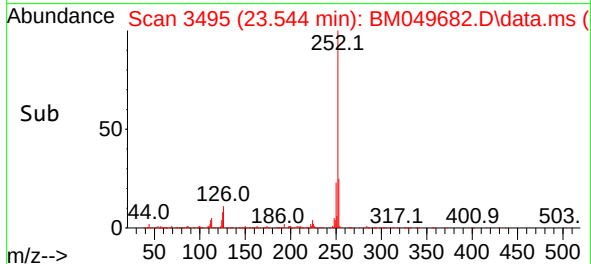
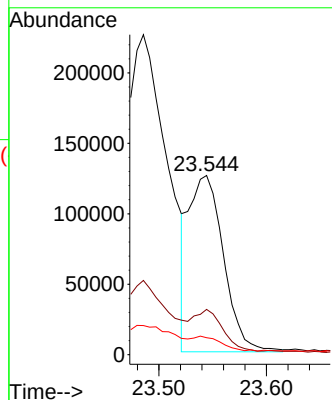
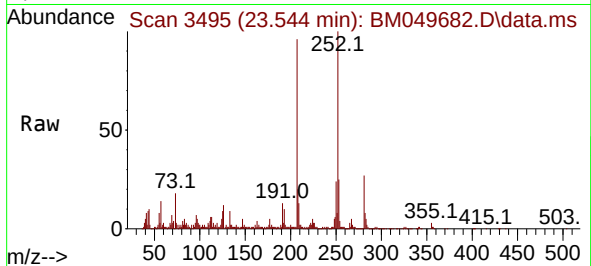




#89
Benzo(k)fluoranthene
Concen: 2.592 ng m
RT: 23.544 min Scan# 34
Delta R.T. -0.041 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

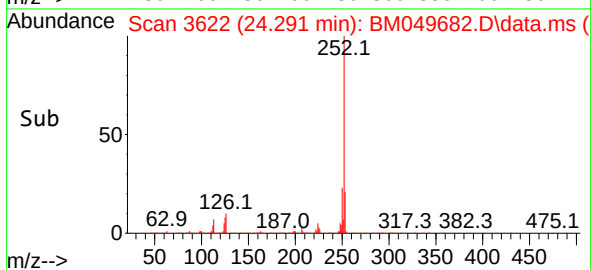
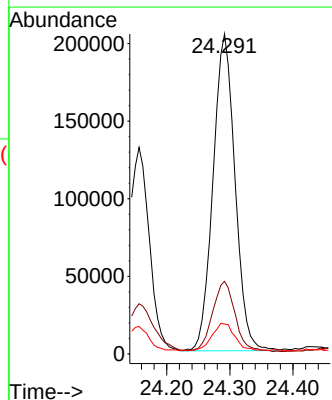
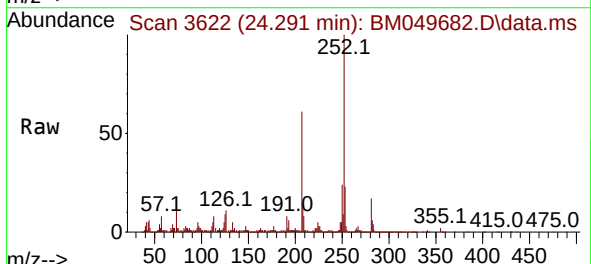
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

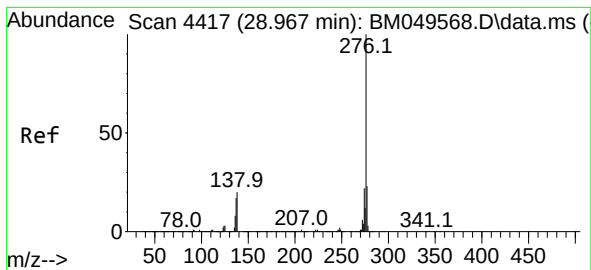
Tgt Ion:252 Resp: 280106
Ion Ratio Lower Upper
252 100
253 25.3 17.5 26.3
125 9.5 7.0 10.6



#90
Benzo(a)pyrene
Concen: 5.600 ng
RT: 24.291 min Scan# 3622
Delta R.T. -0.041 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

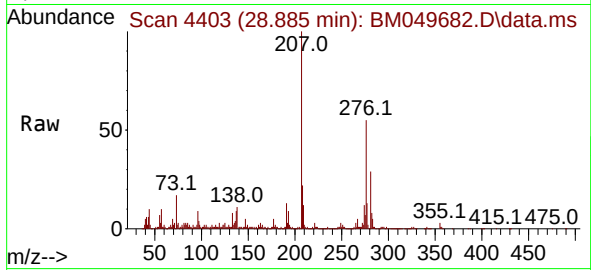
Tgt Ion:252 Resp: 493736
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 9.3 8.2 12.2





#92
 Benzo(g,h,i)perylene
 Concen: 4.053 ng
 RT: 28.885 min Scan# 44
 Delta R.T. -0.082 min
 Lab File: BM049682.D
 Acq: 28 Feb 2025 17:15

Instrument :
 BNA_M
 ClientSampleId :
 SP-SOIL



Tgt Ion:276 Resp: 316018
 Ion Ratio Lower Upper
 276 100
 277 23.5 18.7 28.1
 138 19.4 16.0 24.0

