

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091025\
 Data File : BN037683.D
 Acq On : 10 Sep 2025 14:46
 Operator : RC/JU
 Sample : Q2893-02
 Misc : LOQ-SOIL 0.1 ng
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 LOQ-SOIL-02-QT3-2025

Quant Time: Sep 10 15:21:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 10 02:02:04 2025
 Response via : Initial Calibration

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

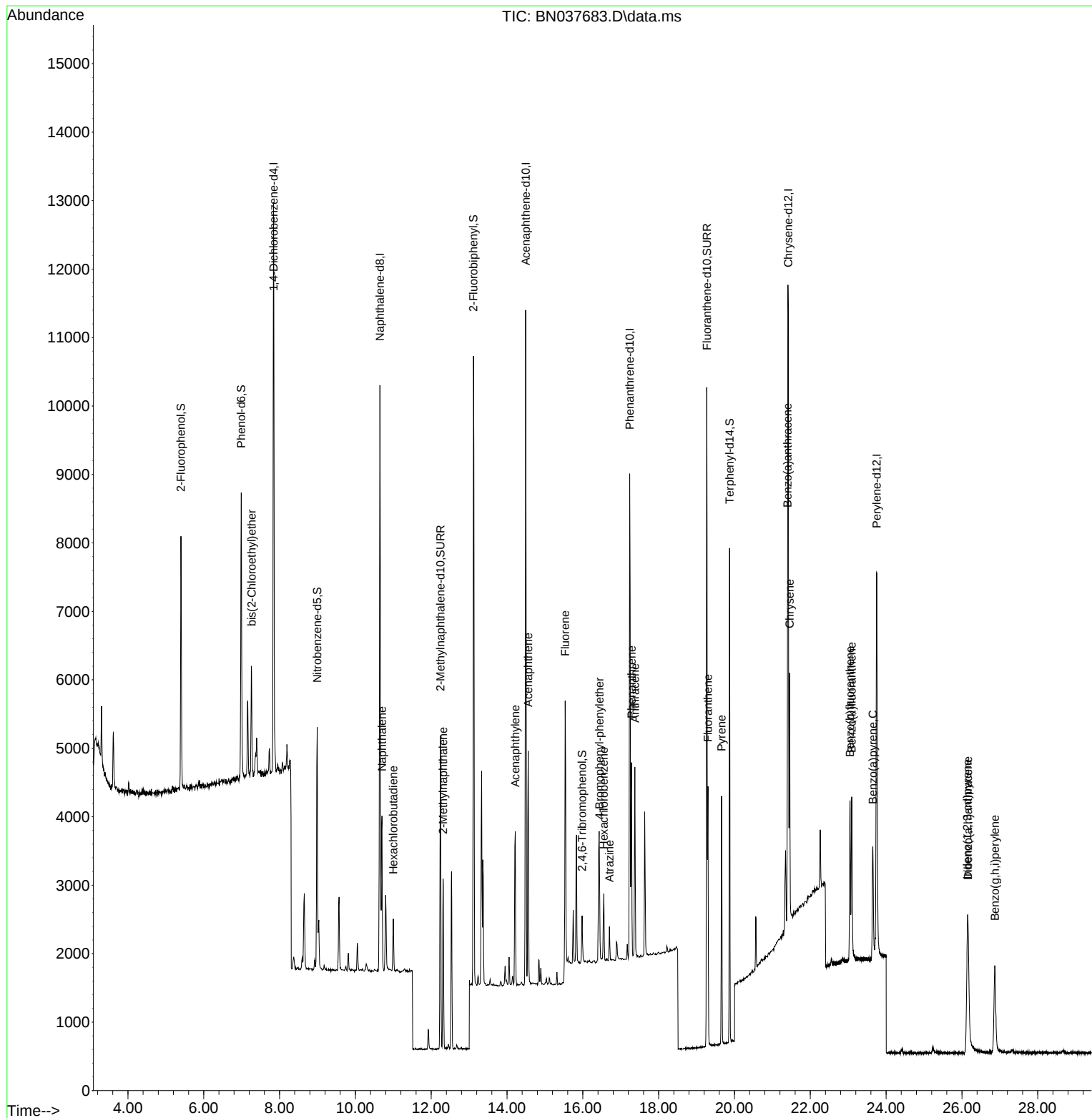
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	4114	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	11079	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	5171	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	9694	0.400	ng	#-0.01
29) Chrysene-d12	21.420	240	7972	0.400	ng	0.00
35) Perylene-d12	23.753	264	8020	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2959	0.281	ng	0.00
5) Phenol-d6	6.988	99	3837	0.290	ng	0.00
8) Nitrobenzene-d5	8.993	82	2754	0.403	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	6027	0.387	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	396	0.275	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	8112	0.399	ng	-0.01
27) Fluoranthene-d10	19.271	212	10459	0.418	ng	0.00
31) Terphenyl-d14	19.870	244	6540	0.389	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.262	93	1210	0.108	ng	96
9) Naphthalene	10.701	128	3075	0.102	ng	# 94
10) Hexachlorobutadiene	11.000	225	571	0.107	ng	# 97
12) 2-Methylnaphthalene	12.314	142	1734	0.089	ng	97
16) Acenaphthylene	14.216	152	2662	0.110	ng	99
17) Acenaphthene	14.559	154	1600	0.103	ng	96
18) Fluorene	15.535	166	1897	0.100	ng	96
21) 4-Bromophenyl-phenylether	16.441	248	620	0.098	ng	99
22) Hexachlorobenzene	16.553	284	759	0.113	ng	99
23) Atrazine	16.702	200	390	0.098	ng	94
25) Phenanthrene	17.285	178	3166	0.107	ng	98
26) Anthracene	17.372	178	2802	0.102	ng	99
28) Fluoranthene	19.299	202	3352	0.101	ng	99
30) Pyrene	19.661	202	3290	0.104	ng	100
32) Benzo(a)anthracene	21.402	228	2968	0.104	ng	99
33) Chrysene	21.456	228	3117	0.108	ng	97
36) Indeno(1,2,3-cd)pyrene	26.145	276	3233	0.106	ng	98
37) Benzo(b)fluoranthene	23.048	252	3062	0.104	ng	# 78
38) Benzo(k)fluoranthene	23.092	252	3050	0.105	ng	# 74
39) Benzo(a)pyrene	23.648	252	2661	0.108	ng	# 71
40) Dibenzo(a,h)anthracene	26.162	278	2352	0.103	ng	# 73
41) Benzo(g,h,i)perylene	26.867	276	2891	0.105	ng	# 85

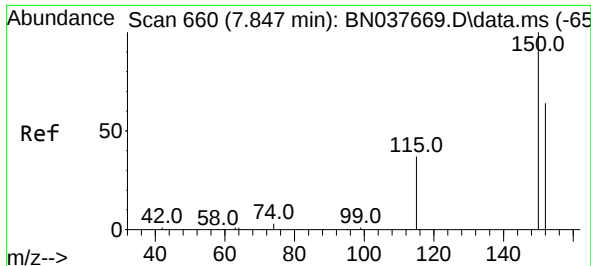
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091025\
Data File : BN037683.D
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Misc : LOQ-SOIL 0.1 ng
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Instrument :
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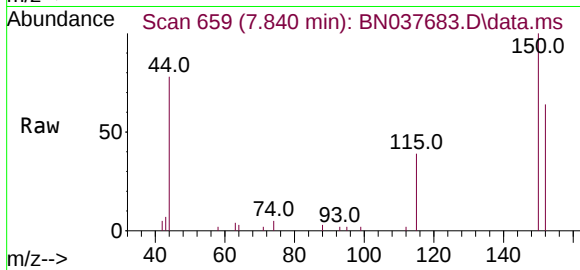
Quant Time: Sep 10 15:21:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN090925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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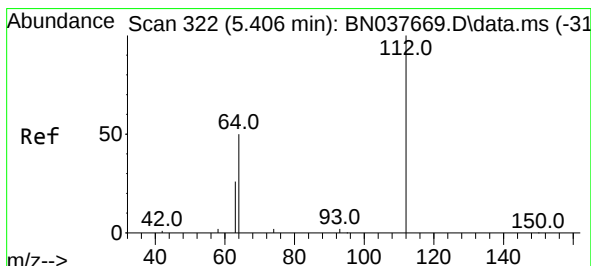
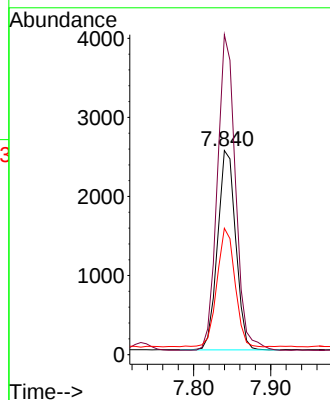
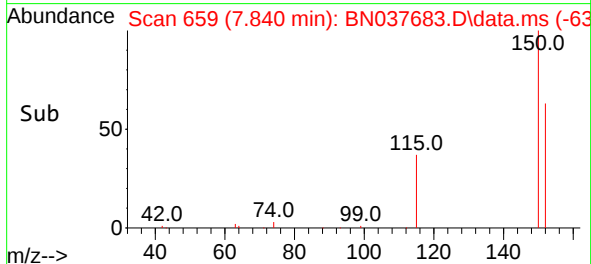


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

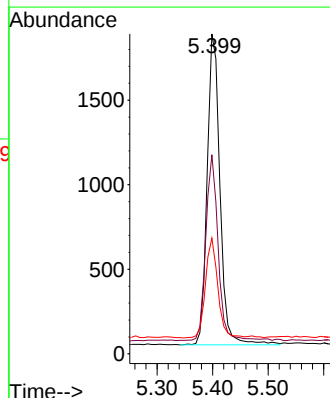
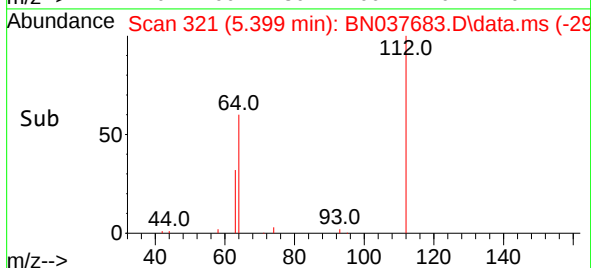
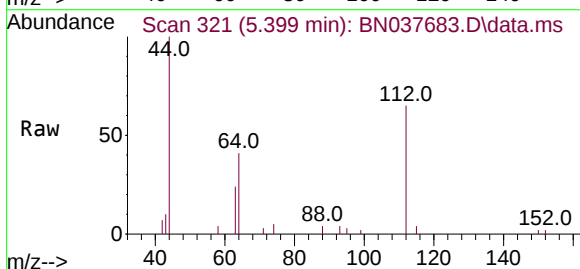


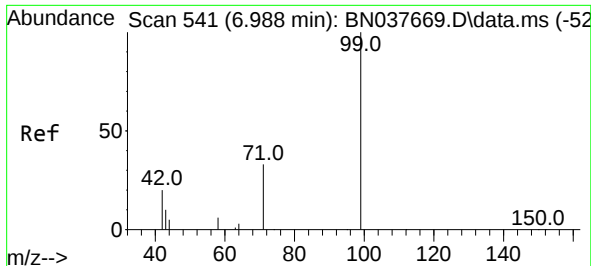
Tgt Ion:152 Resp: 4114
Ion Ratio Lower Upper
152 100
150 156.7 123.2 184.8
115 61.9 49.0 73.4



#4
2-Fluorophenol
Concen: 0.281 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.007 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:112 Resp: 2959
Ion Ratio Lower Upper
112 100
64 56.9 45.4 68.2
63 30.8 23.7 35.5

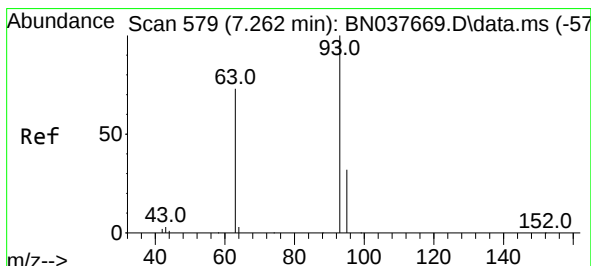
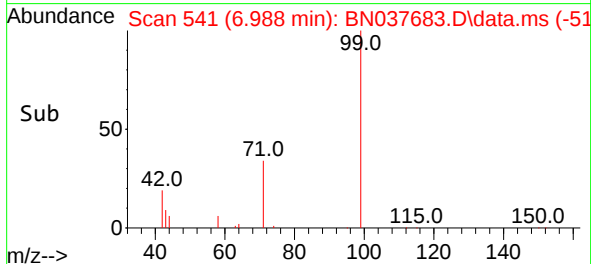
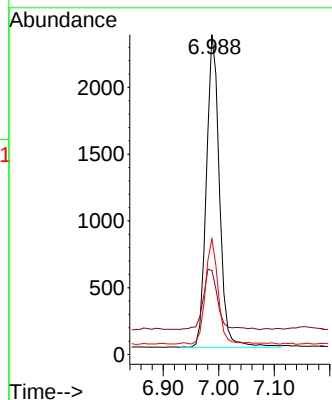
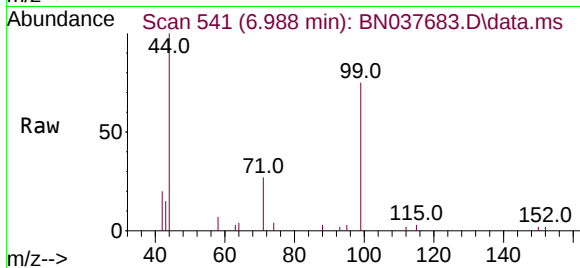




#5
Phenol-d6
Concen: 0.290 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

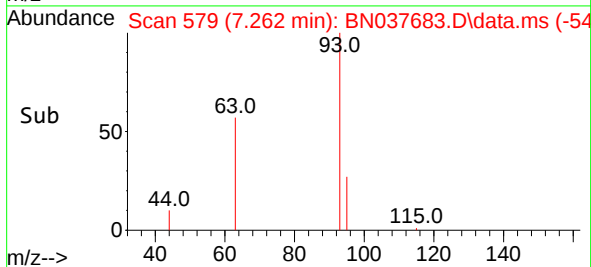
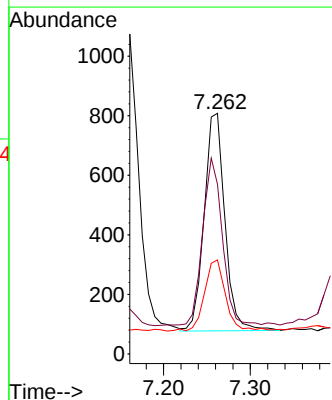
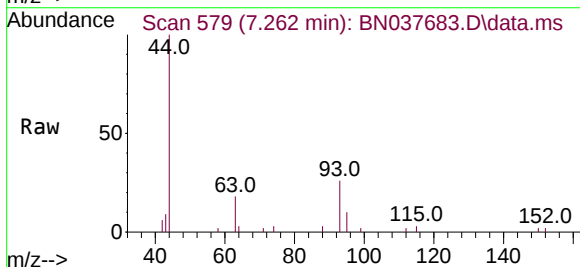
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

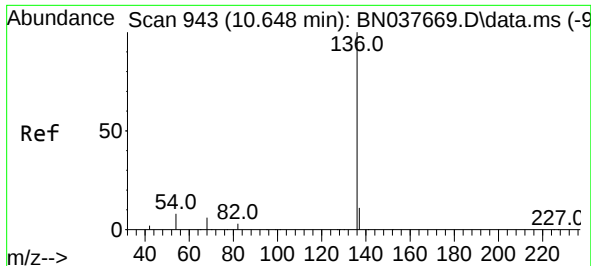
Tgt Ion: 99 Resp: 3837
Ion Ratio Lower Upper
99 100
42 21.3 17.7 26.5
71 33.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 7.262 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion: 93 Resp: 1210
Ion Ratio Lower Upper
93 100
63 73.6 62.1 93.1
95 33.5 26.0 39.0

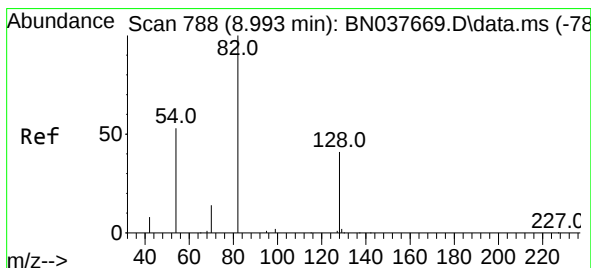
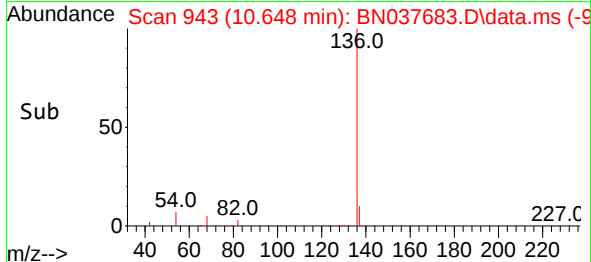
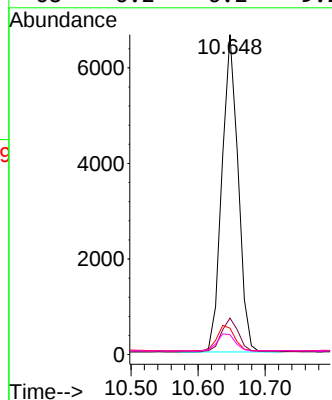
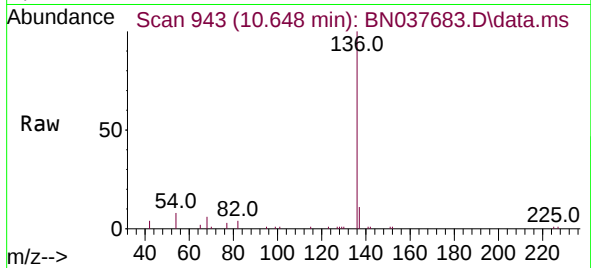




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

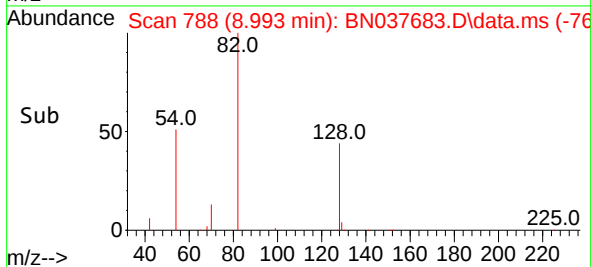
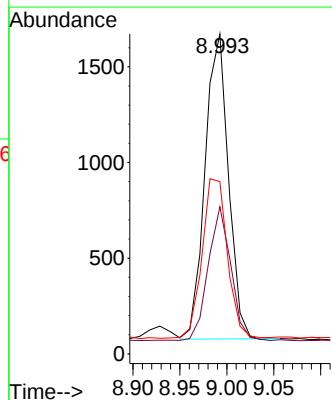
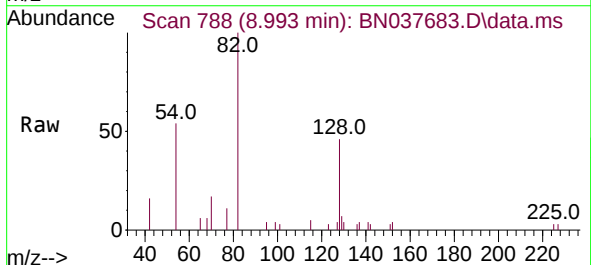
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

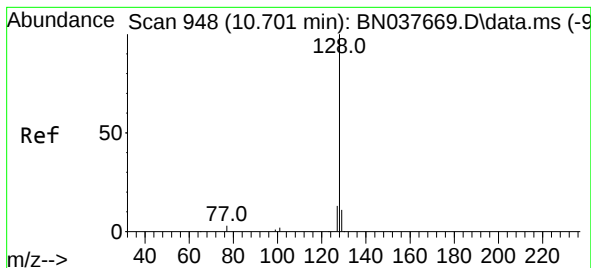
Tgt Ion:	136	Resp:	11079
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.3	13.9
54	8.3	8.1	12.1
68	6.2	6.2	9.2



#8
Nitrobenzene-d5
Concen: 0.403 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:	82	Resp:	2754
Ion	Ratio	Lower	Upper
82	100		
128	46.0	34.3	51.5
54	53.8	45.5	68.3





#9

Naphthalene

Concen: 0.102 ng

RT: 10.701 min Scan# 948

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

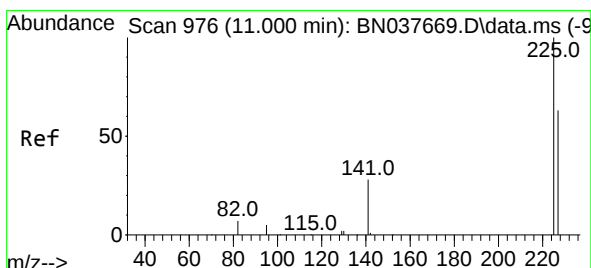
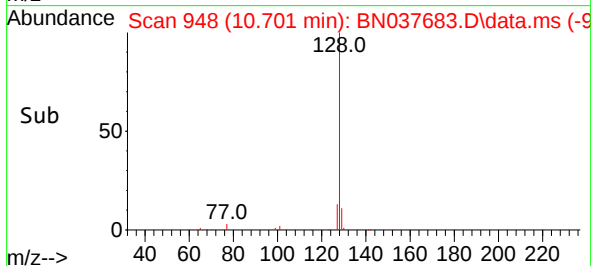
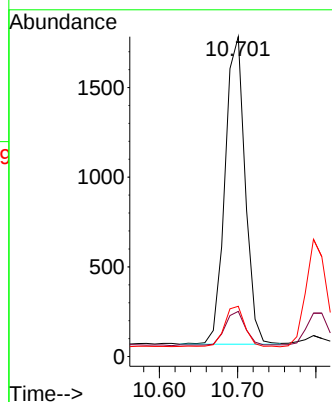
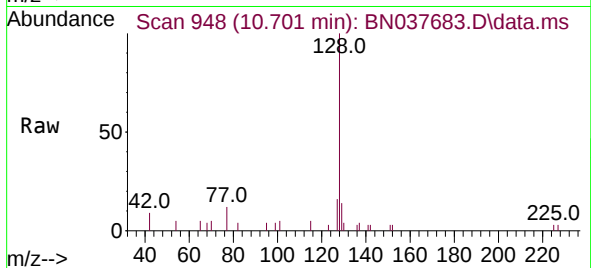
Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

Tgt Ion:	128	Resp:	3075
Ion Ratio	Lower	Upper	
128	100		
129	14.1	9.3	13.9#
127	15.7	10.7	16.1



#10

Hexachlorobutadiene

Concen: 0.107 ng

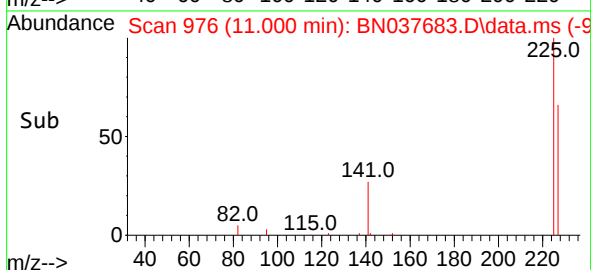
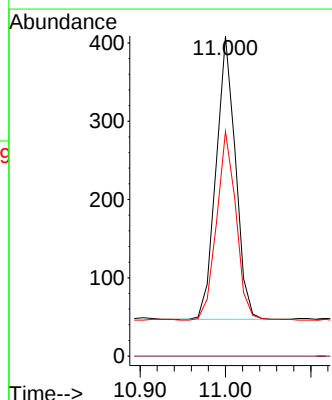
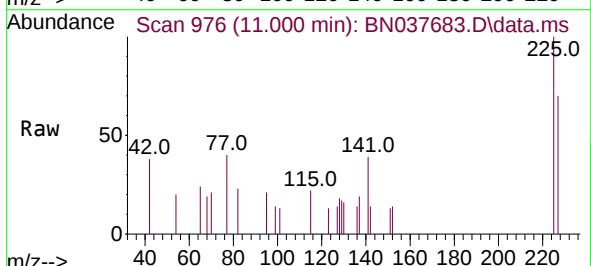
RT: 11.000 min Scan# 976

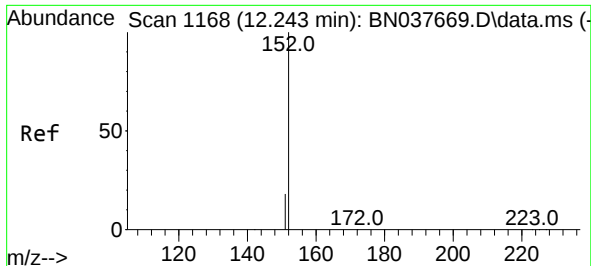
Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Tgt Ion:	225	Resp:	571
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	66.9	51.7	77.5

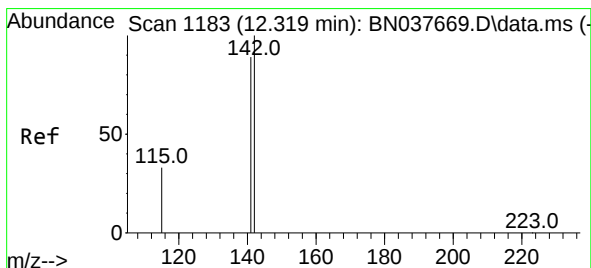
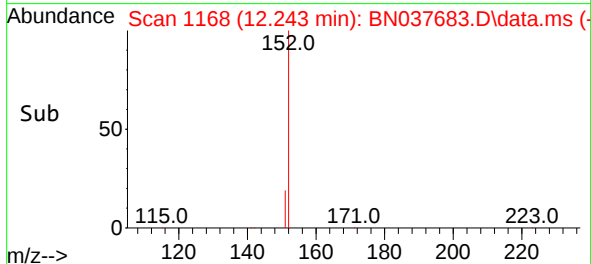
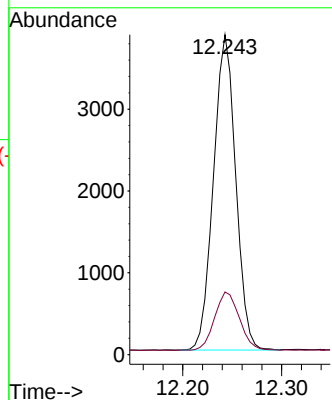
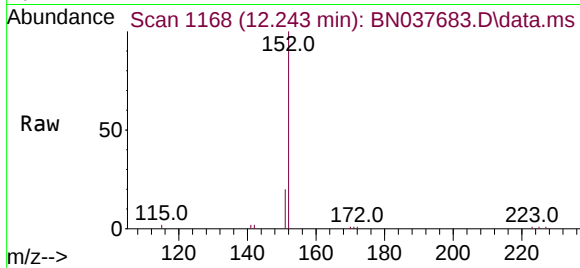




#11
2-Methylnaphthalene-d10
Concen: 0.387 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

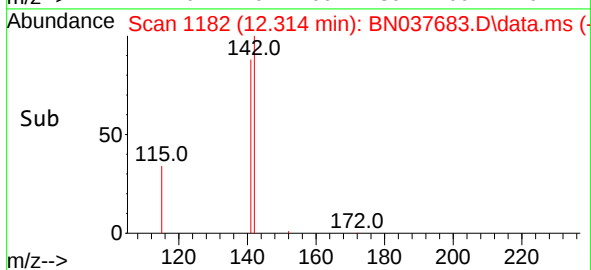
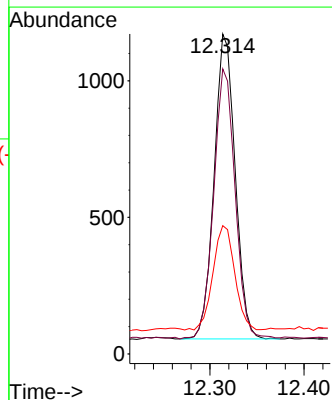
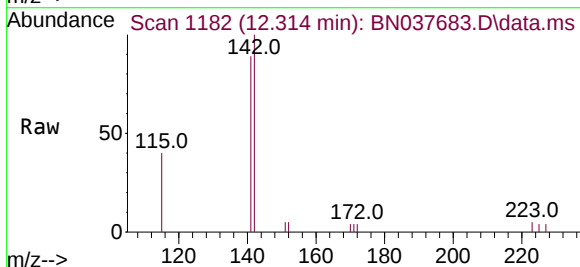
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

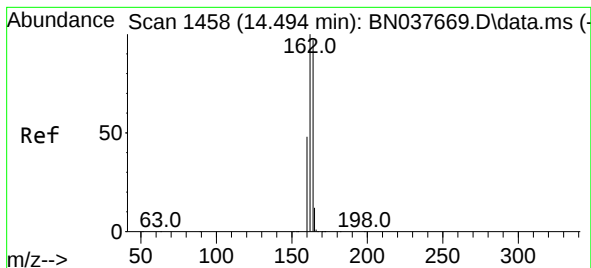
Tgt Ion:152 Resp: 6027
Ion Ratio Lower Upper
152 100
151 20.6 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.089 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.005 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:142 Resp: 1734
Ion Ratio Lower Upper
142 100
141 89.1 71.5 107.3
115 40.1 28.0 42.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.494 min Scan# 1458

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

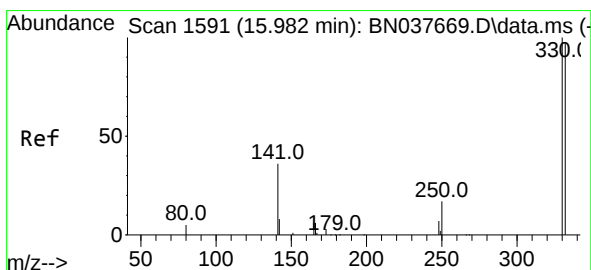
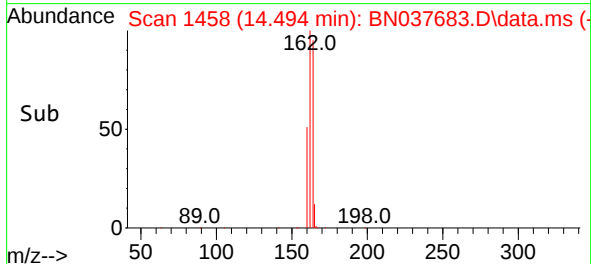
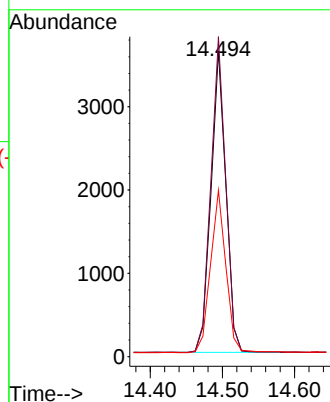
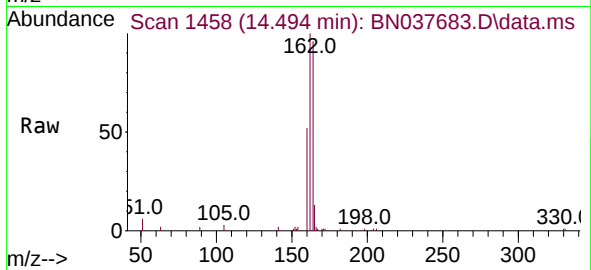
Tgt Ion:164 Resp: 5171

Ion Ratio Lower Upper

164 100

162 104.6 82.6 123.8

160 54.4 39.7 59.5



#14

2,4,6-Tribromophenol

Concen: 0.275 ng

RT: 15.982 min Scan# 1591

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

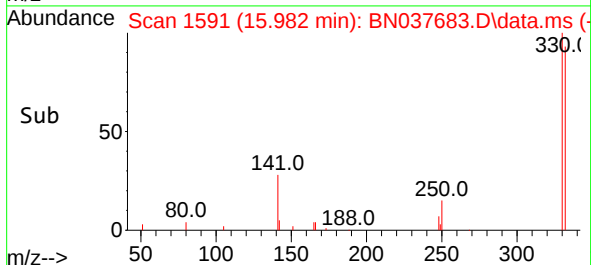
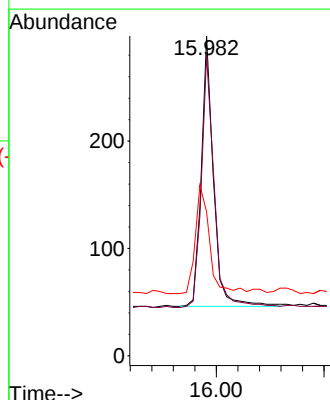
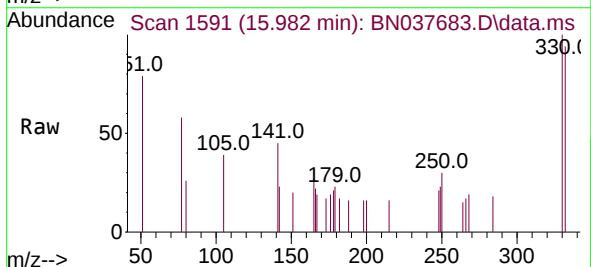
Tgt Ion:330 Resp: 396

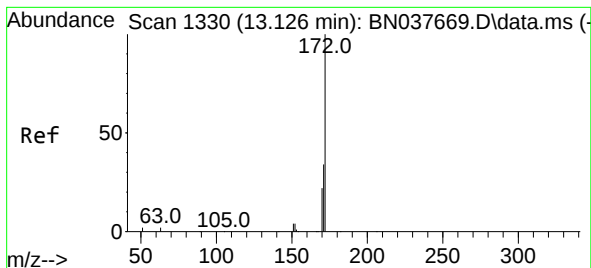
Ion Ratio Lower Upper

330 100

332 97.7 78.8 118.2

141 48.0 37.8 56.6





#15

2-Fluorobiphenyl

Concen: 0.399 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.011 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

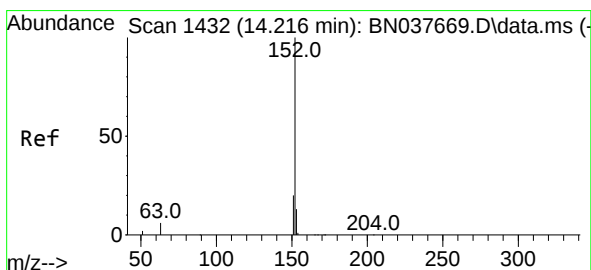
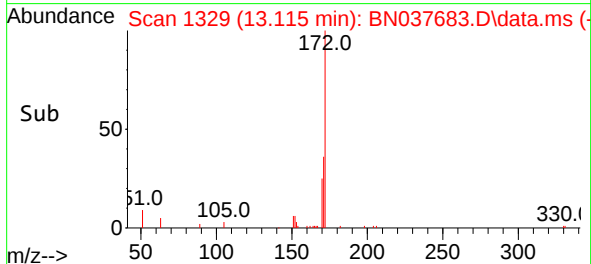
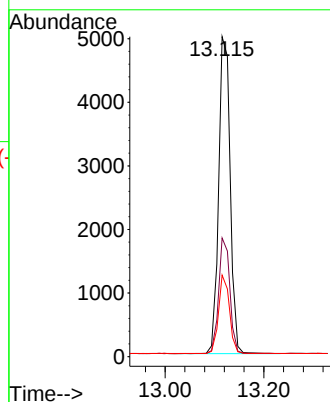
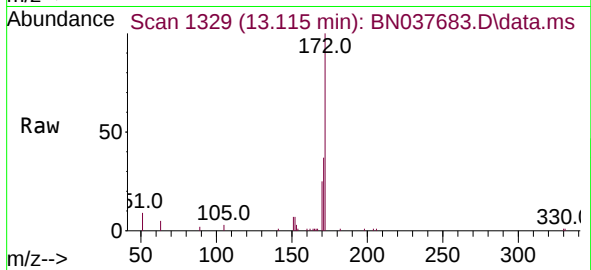
Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

Tgt Ion:172	Resp:	8112
Ion Ratio	Lower	Upper
172	100	
171	37.1	27.8 41.8
170	25.5	18.4 27.6



#16

Acenaphthylene

Concen: 0.110 ng

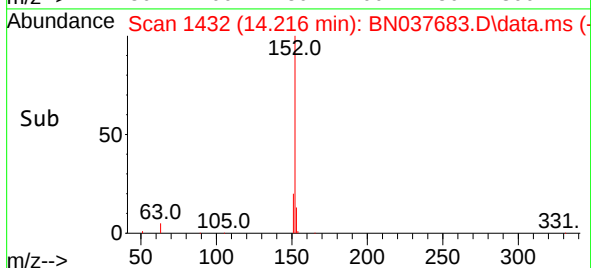
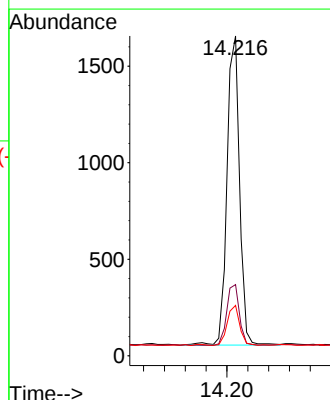
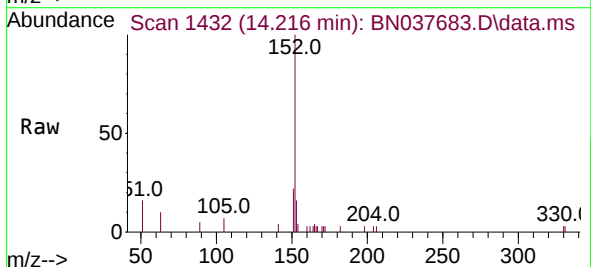
RT: 14.216 min Scan# 1432

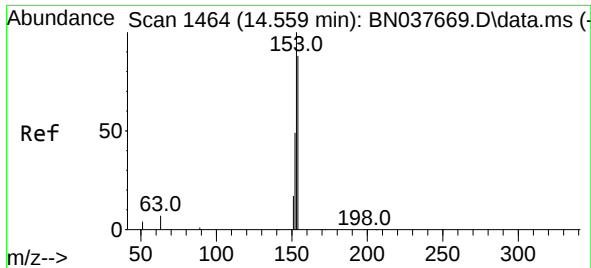
Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Tgt Ion:152	Resp:	2662
Ion Ratio	Lower	Upper
152	100	
151	19.7	16.0 24.0
153	12.8	10.4 15.6

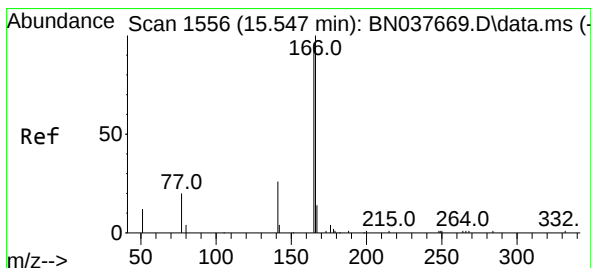
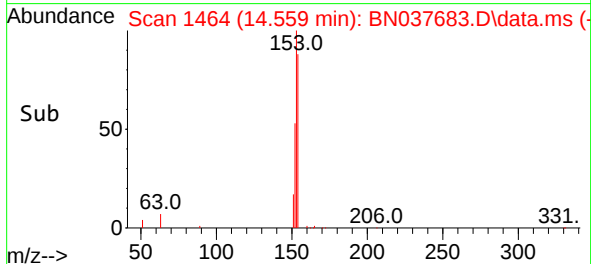
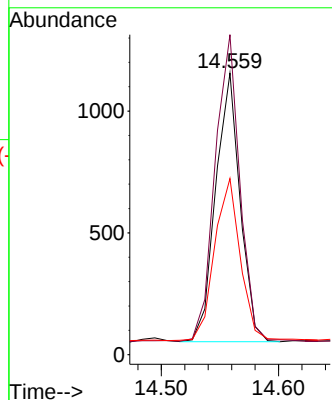
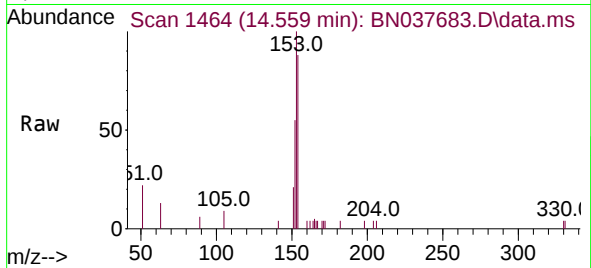




#17
Acenaphthene
Concen: 0.103 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

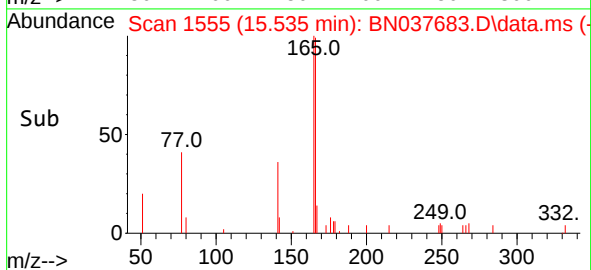
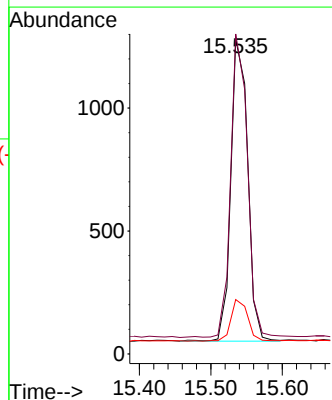
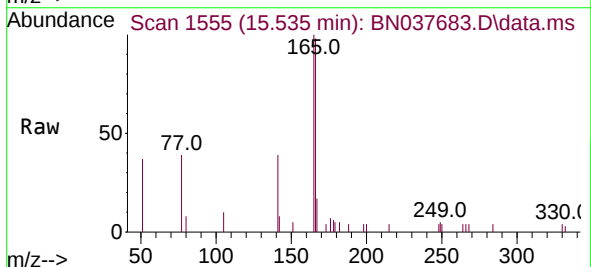
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

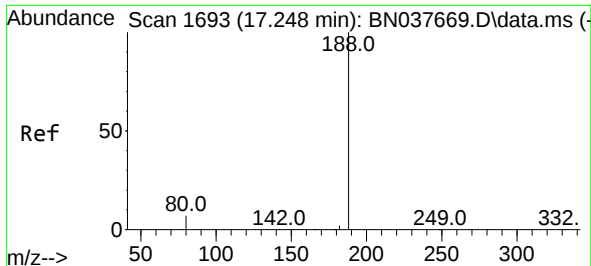
Tgt Ion:154 Resp: 1600
Ion Ratio Lower Upper
154 100
153 115.8 90.7 136.1
152 63.6 46.4 69.6



#18
Fluorene
Concen: 0.100 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.012 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:166 Resp: 1897
Ion Ratio Lower Upper
166 100
165 100.9 77.4 116.0
167 13.9 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

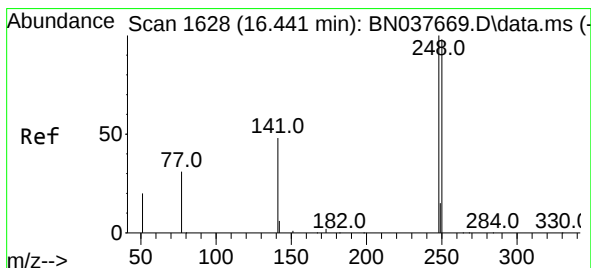
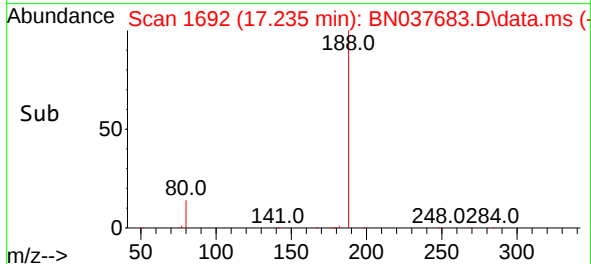
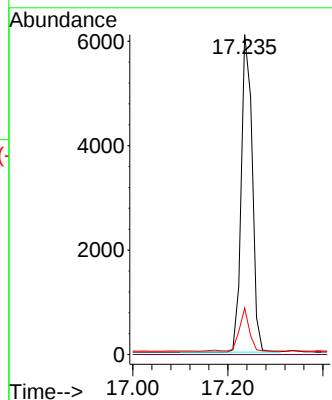
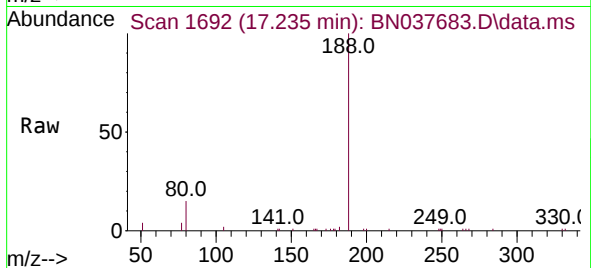
Tgt Ion:188 Resp: 9694

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.6 6.3 9.5#



#21

4-Bromophenyl-phenylether

Concen: 0.098 ng

RT: 16.441 min Scan# 1628

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

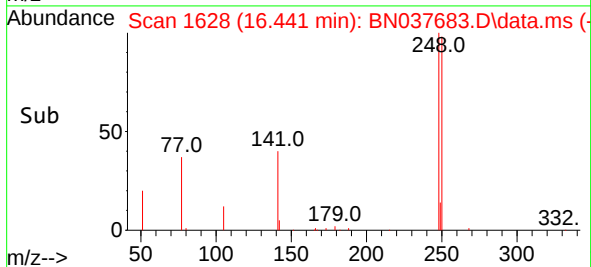
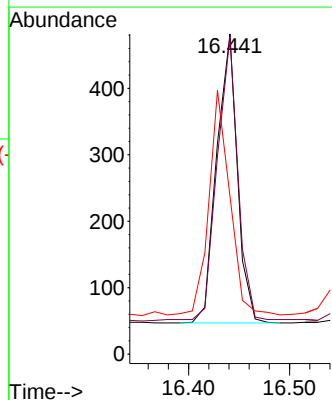
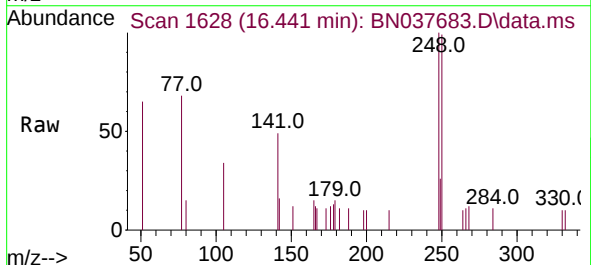
Tgt Ion:248 Resp: 620

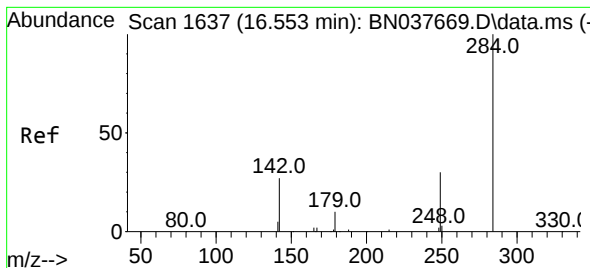
Ion Ratio Lower Upper

248 100

250 99.2 78.7 118.1

141 49.4 40.2 60.4





#22

Hexachlorobenzene

Concen: 0.113 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

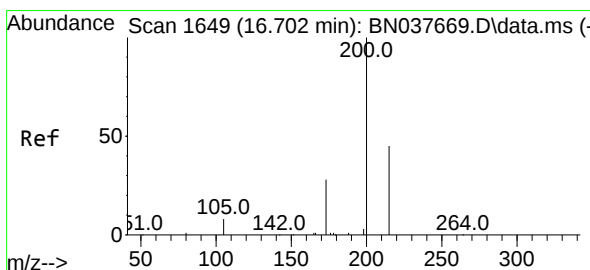
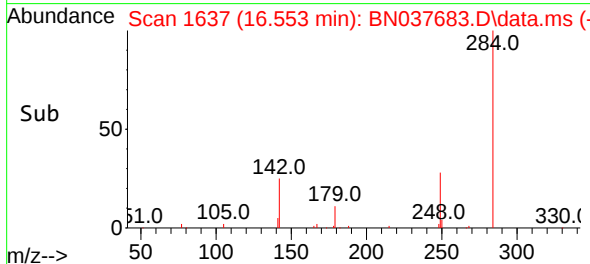
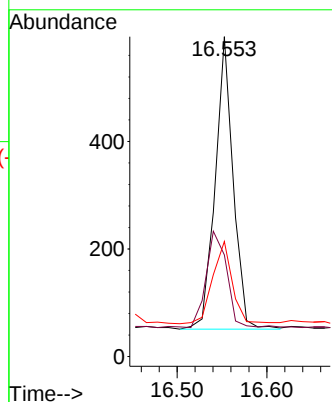
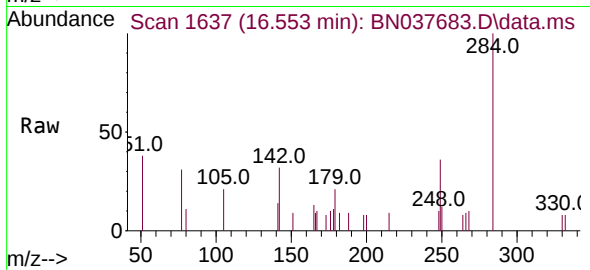
Tgt Ion:284 Resp: 759

Ion Ratio Lower Upper

284 100

142 37.8 29.4 44.2

249 30.7 24.4 36.6



#23

Atrazine

Concen: 0.098 ng

RT: 16.702 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

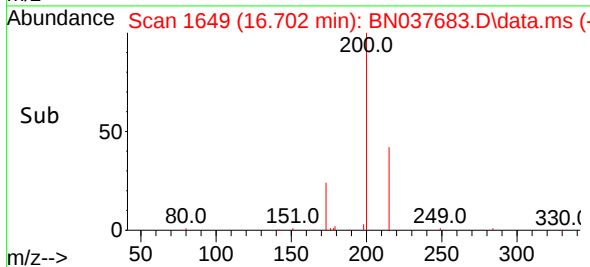
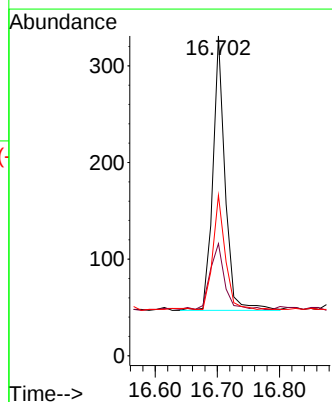
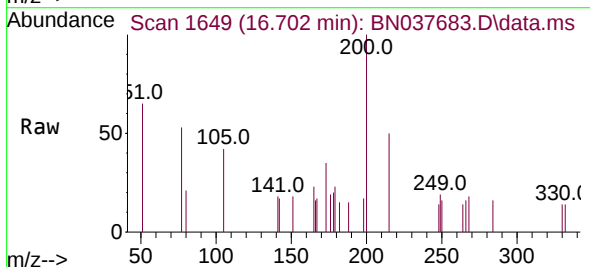
Tgt Ion:200 Resp: 390

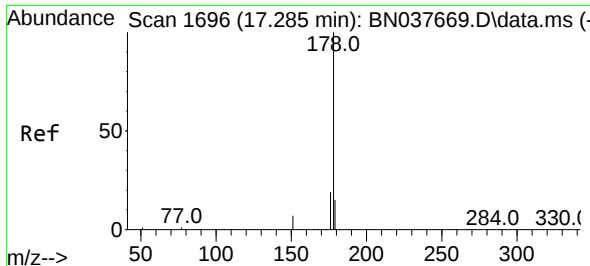
Ion Ratio Lower Upper

200 100

173 35.0 24.7 37.1

215 50.2 37.5 56.3

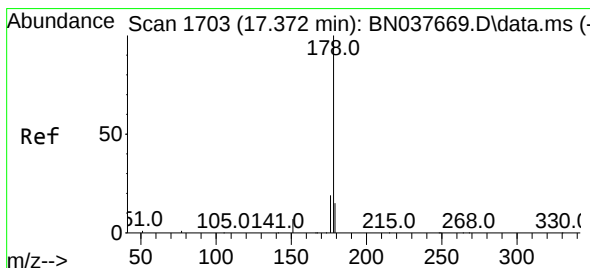
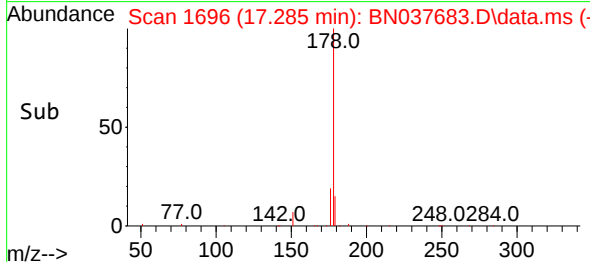
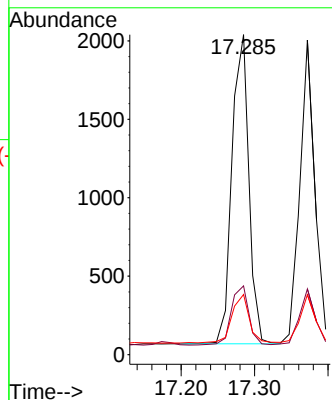
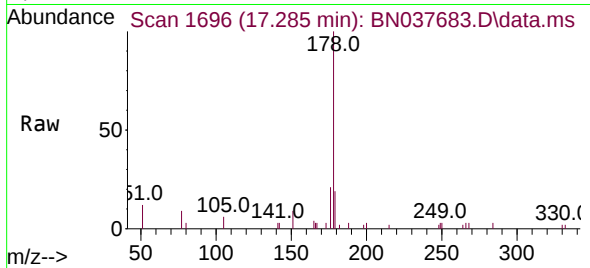




#25
Phenanthrene
Concen: 0.107 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

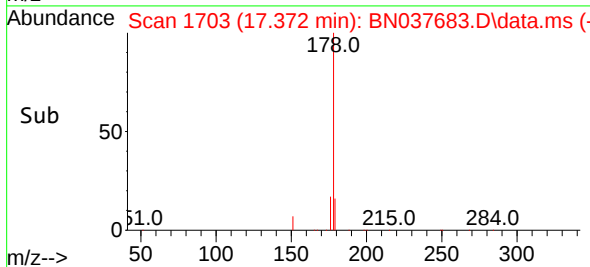
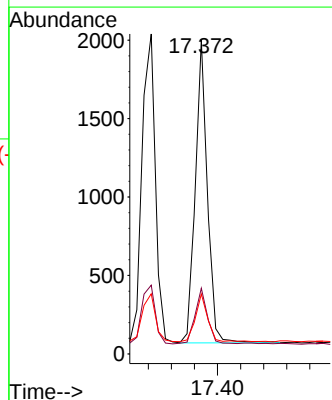
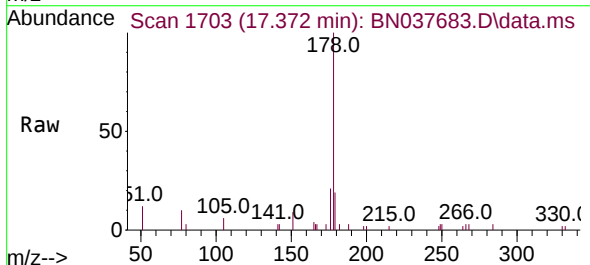
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

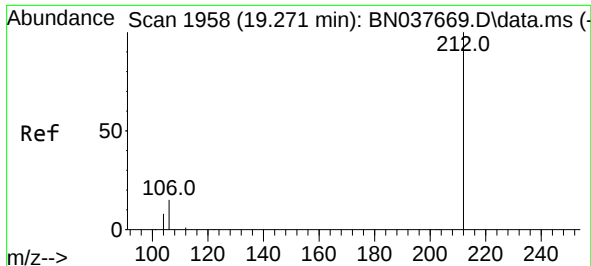
Tgt Ion:178	Resp:	3166
Ion Ratio	Lower	Upper
178	100	
176	19.8	15.3 22.9
179	16.6	12.5 18.7



#26
Anthracene
Concen: 0.102 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:178	Resp:	2802
Ion Ratio	Lower	Upper
178	100	
176	18.7	14.8 22.2
179	16.0	12.0 18.0

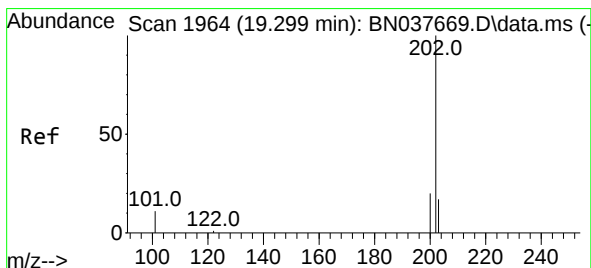
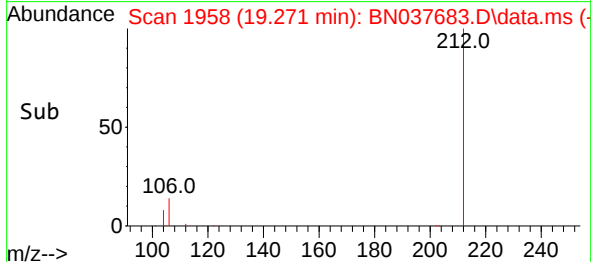
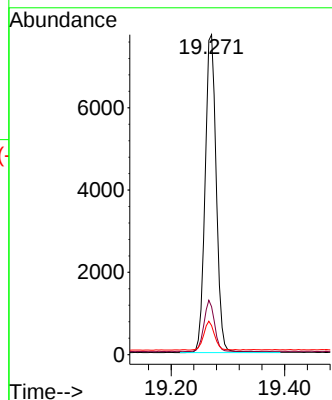
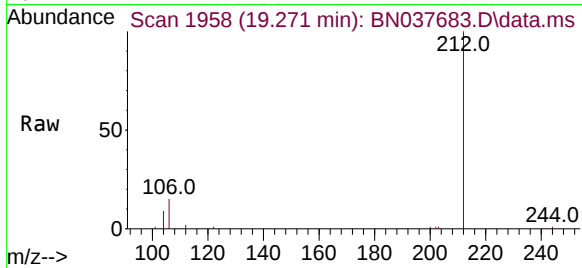




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.271 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

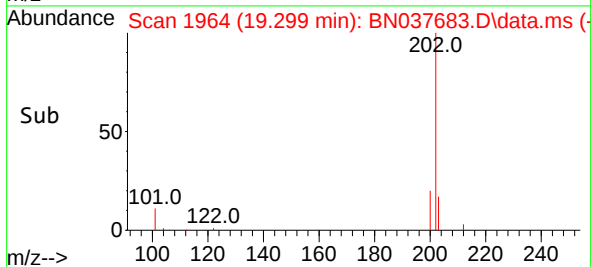
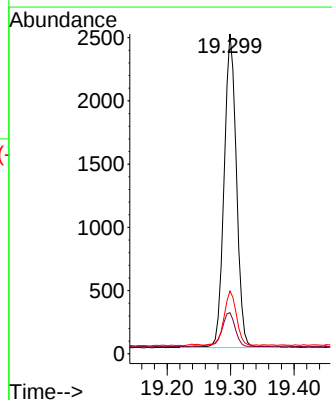
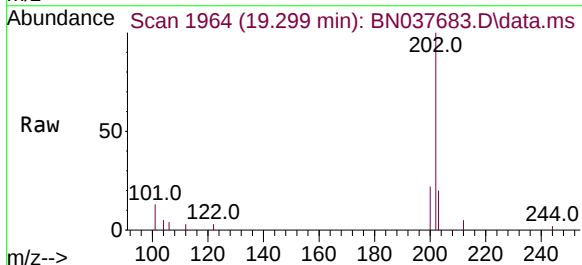
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

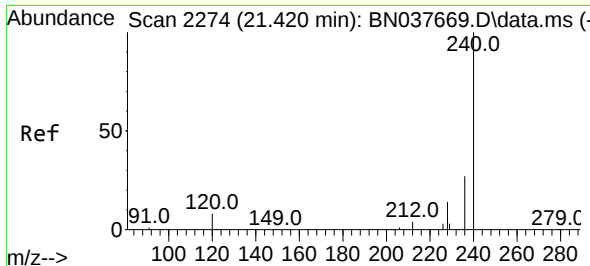
Tgt Ion:212 Resp: 10459
Ion Ratio Lower Upper
212 100
106 15.3 11.8 17.6
104 8.7 6.6 10.0



#28
Fluoranthene
Concen: 0.101 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:202 Resp: 3352
Ion Ratio Lower Upper
202 100
101 12.0 9.0 13.6
203 17.2 13.8 20.8

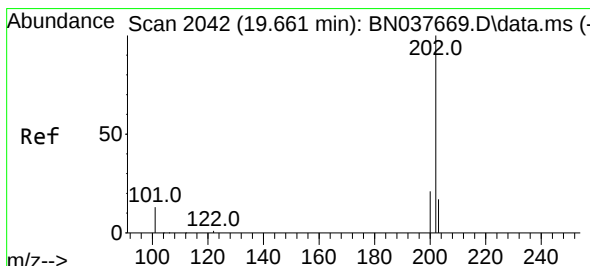
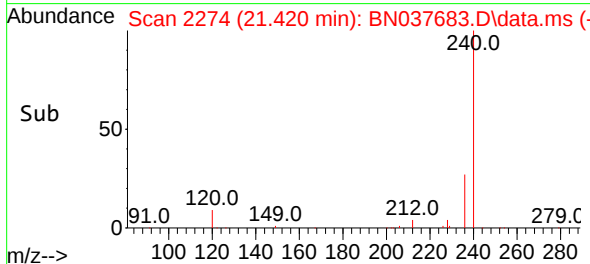
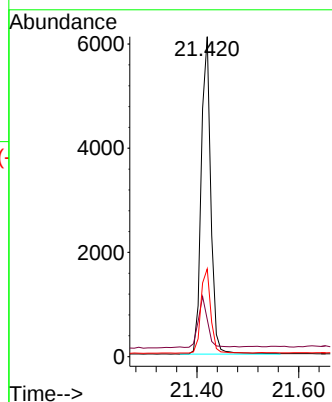
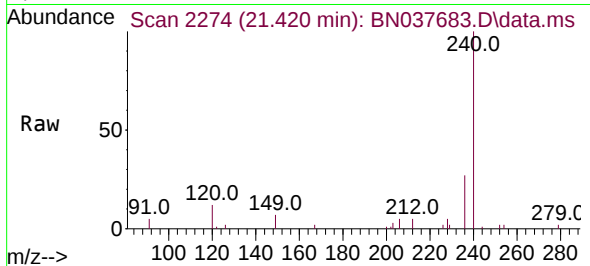




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

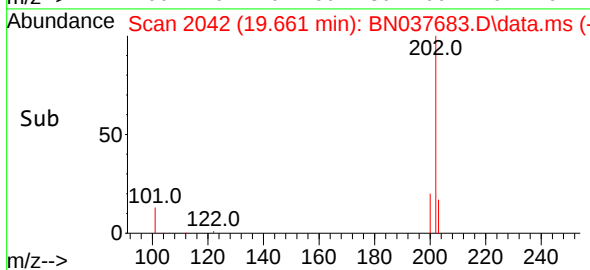
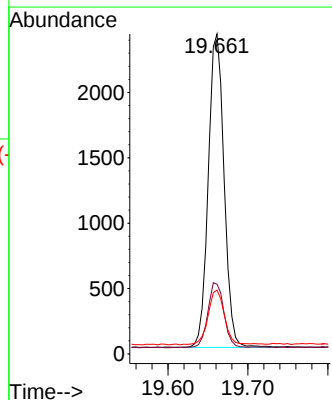
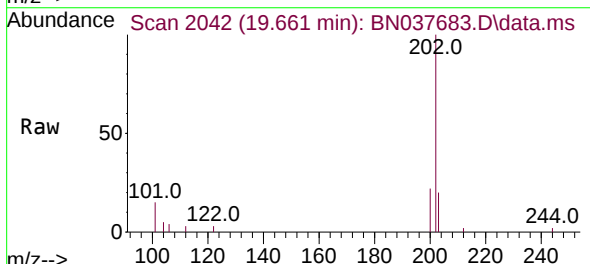
Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

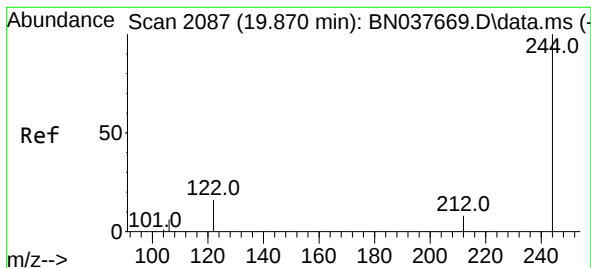
Tgt Ion:240 Resp: 7972
Ion Ratio Lower Upper
240 100
120 11.6 8.5 12.7
236 27.4 22.5 33.7



#30
Pyrene
Concen: 0.104 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:202 Resp: 3290
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 17.6 14.3 21.5





#31

Terphenyl-d14

Concen: 0.389 ng

RT: 19.870 min Scan# 2087

Delta R.T. -0.000 min

Lab File: BN037683.D

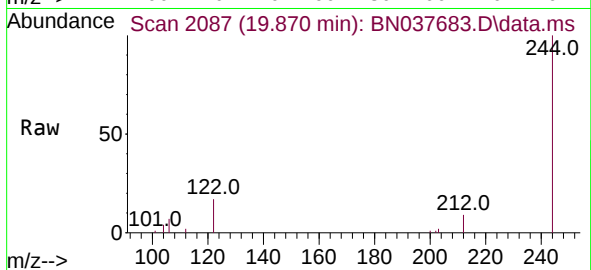
Acq: 10 Sep 2025 14:46

Instrument :

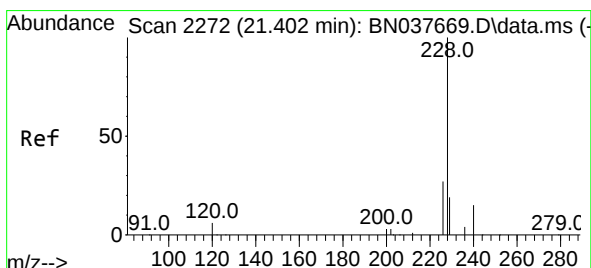
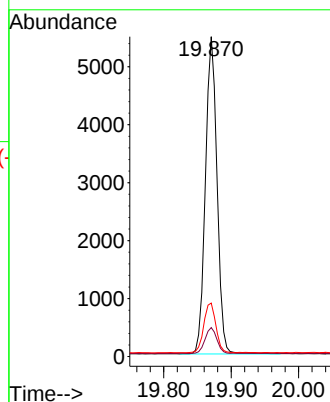
BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025



Tgt Ion:	244	Resp:	6540
Ion Ratio	Lower	Upper	
244	100		
212	9.1	7.0	10.4
122	16.7	13.4	20.2



#32

Benzo(a)anthracene

Concen: 0.104 ng

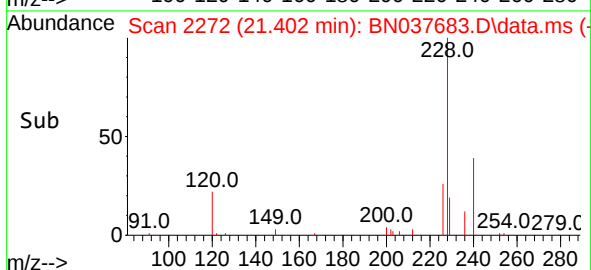
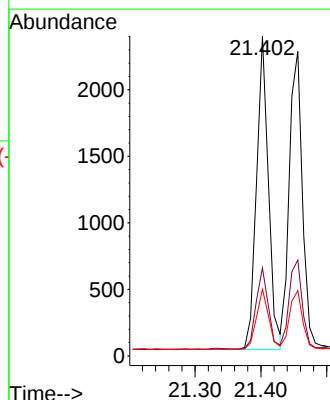
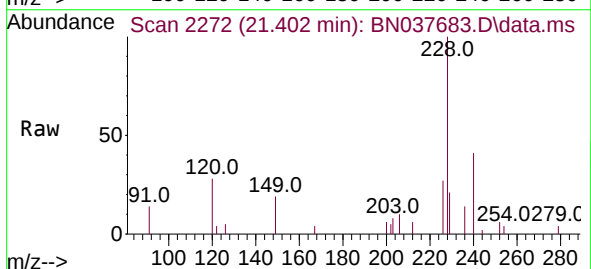
RT: 21.402 min Scan# 2272

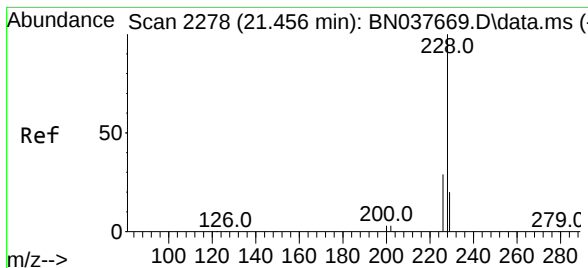
Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Tgt Ion:	228	Resp:	2968
Ion Ratio	Lower	Upper	
228	100		
226	27.5	21.8	32.6
229	20.8	15.8	23.6





#33

Chrysene

Concen: 0.108 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

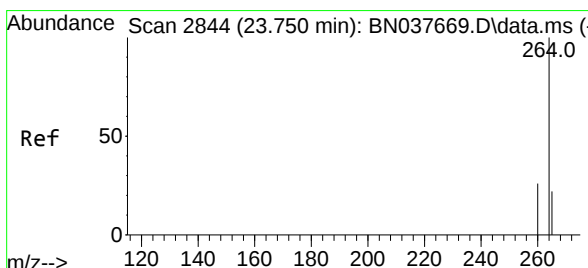
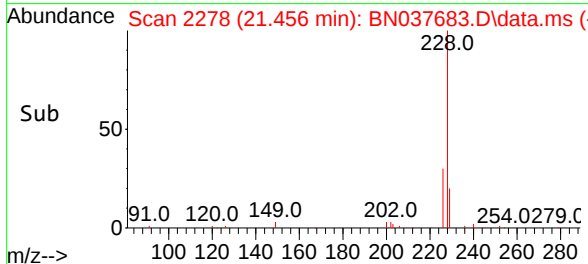
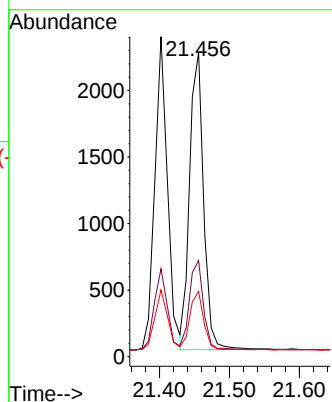
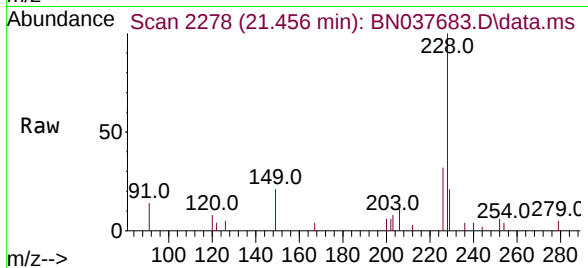
Tgt Ion:228 Resp: 3117

Ion Ratio Lower Upper

228 100

226 31.5 23.5 35.3

229 21.4 16.1 24.1



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. 0.003 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

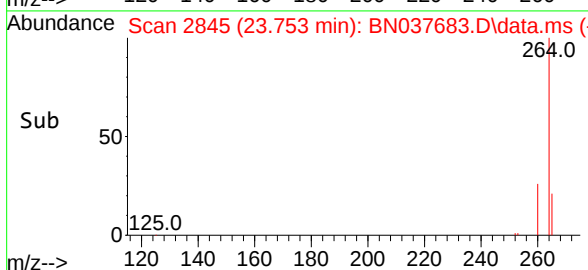
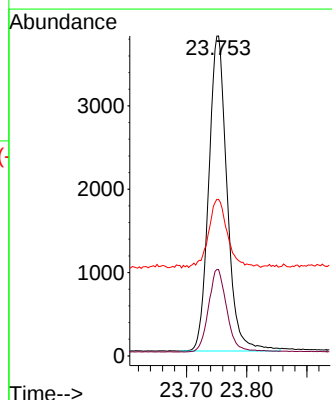
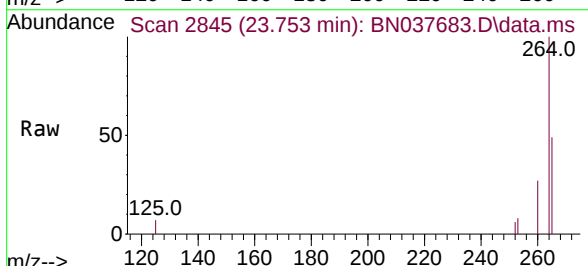
Tgt Ion:264 Resp: 8020

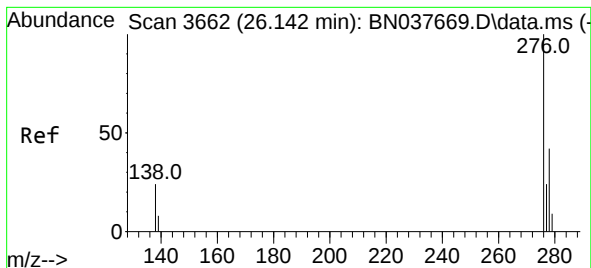
Ion Ratio Lower Upper

264 100

260 27.0 21.2 31.8

265 48.9 28.2 42.4#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.106 ng

RT: 26.145 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

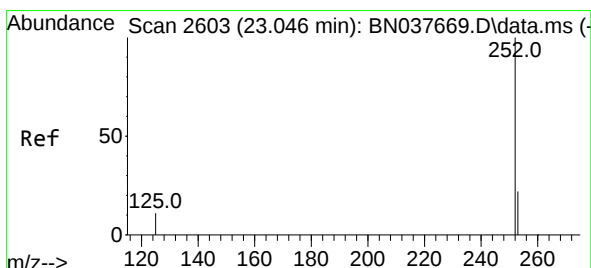
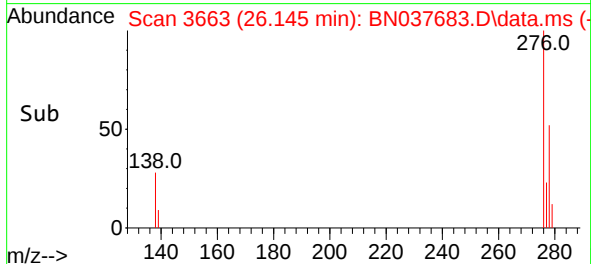
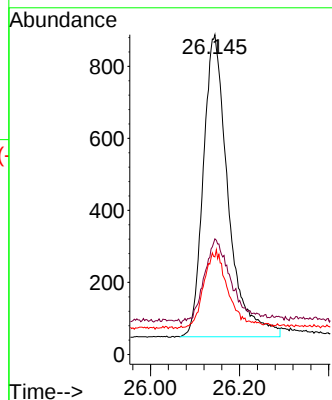
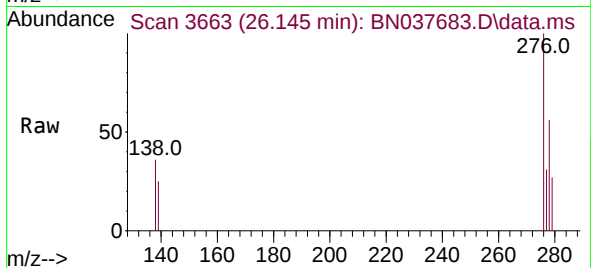
Tgt Ion:276 Resp: 3233

Ion Ratio Lower Upper

276 100

138 27.5 21.3 31.9

277 23.6 20.1 30.1



#37

Benzo(b)fluoranthene

Concen: 0.104 ng

RT: 23.048 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

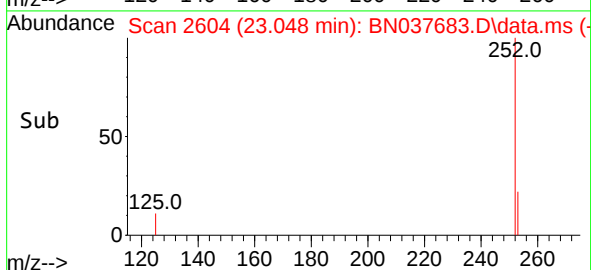
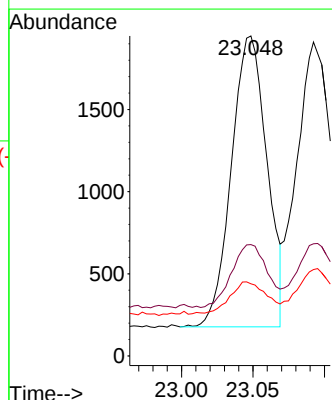
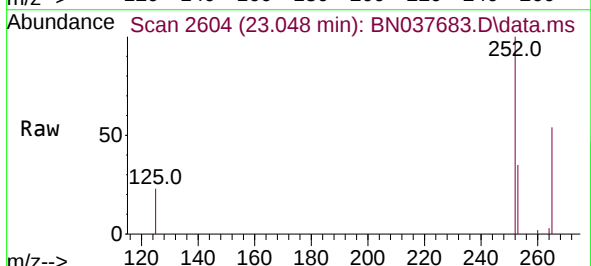
Tgt Ion:252 Resp: 3062

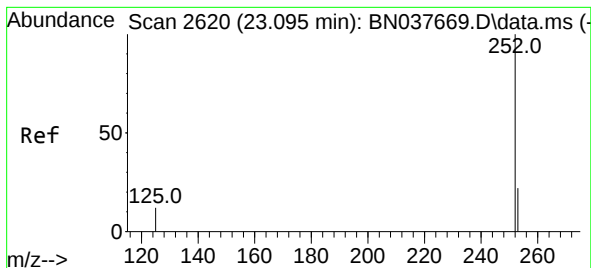
Ion Ratio Lower Upper

252 100

253 34.8 19.7 29.5#

125 22.5 10.2 15.2#





#38

Benzo(k)fluoranthene

Concen: 0.105 ng

RT: 23.092 min Scan# 2620

Delta R.T. -0.003 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT3-2025

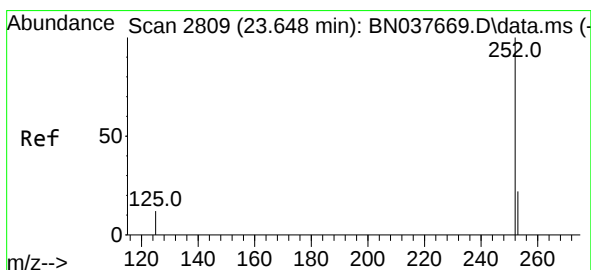
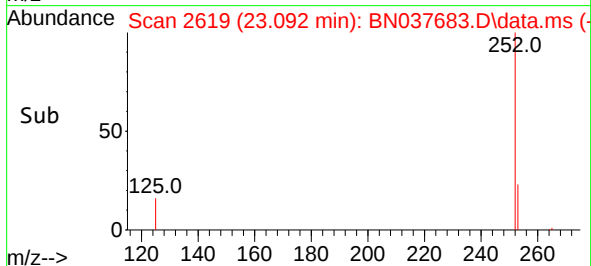
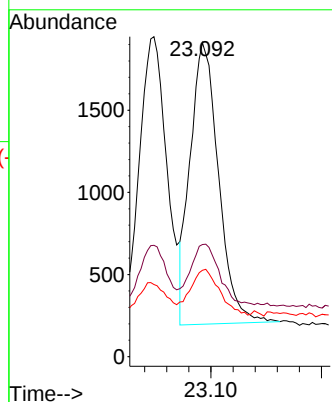
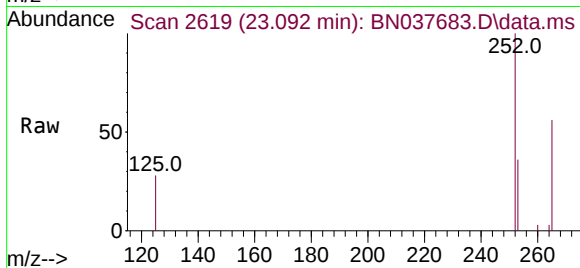
Tgt Ion:252 Resp: 3050

Ion Ratio Lower Upper

252 100

253 35.7 19.9 29.9#

125 27.5 11.4 17.0#



#39

Benzo(a)pyrene

Concen: 0.108 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037683.D

Acq: 10 Sep 2025 14:46

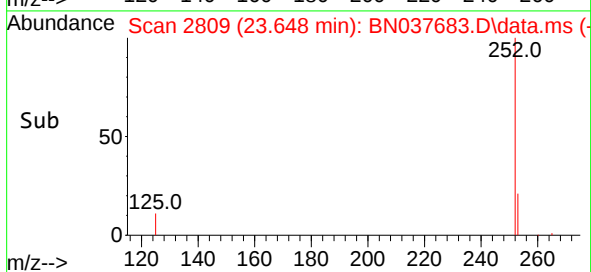
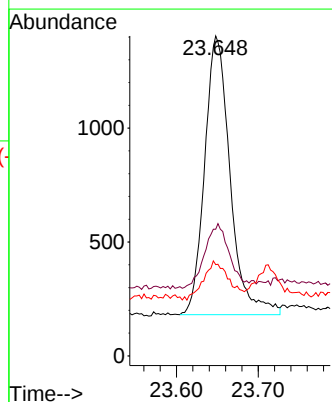
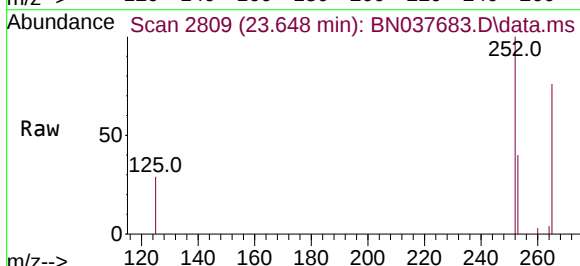
Tgt Ion:252 Resp: 2661

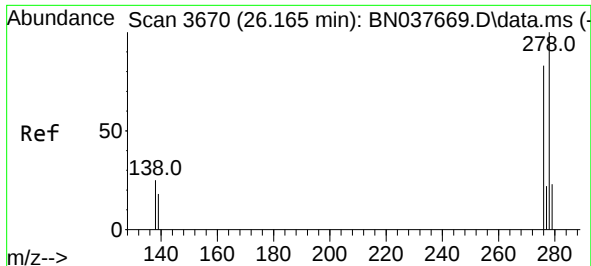
Ion Ratio Lower Upper

252 100

253 39.6 20.7 31.1#

125 28.5 11.9 17.9#

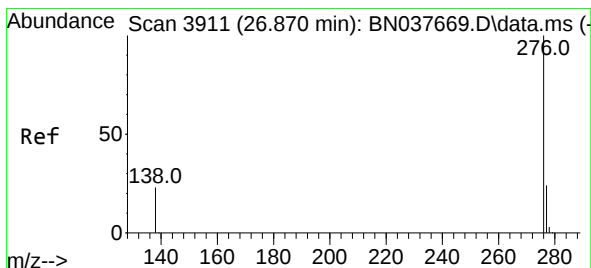
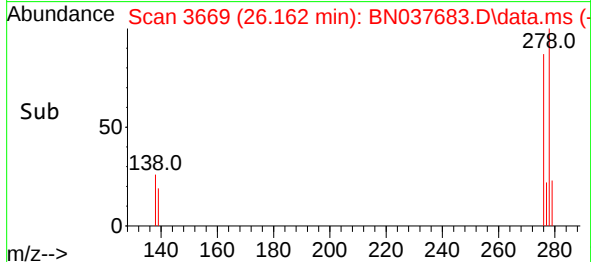
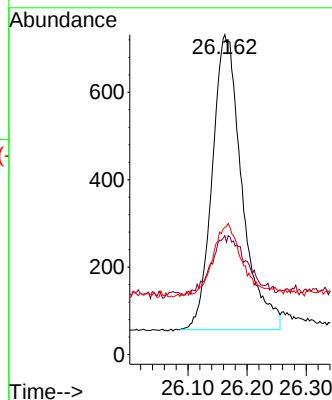
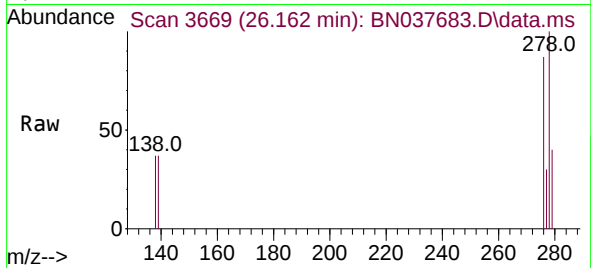




#40
Dibenzo(a,h)anthracene
Concen: 0.103 ng
RT: 26.162 min Scan# 30
Delta R.T. -0.003 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT3-2025

Tgt Ion:278 Resp: 2352
Ion Ratio Lower Upper
278 100
139 37.2 19.1 28.7#
279 39.8 20.9 31.3#



#41
Benzo(g,h,i)perylene
Concen: 0.105 ng
RT: 26.867 min Scan# 3910
Delta R.T. -0.003 min
Lab File: BN037683.D
Acq: 10 Sep 2025 14:46

Tgt Ion:276 Resp: 2891
Ion Ratio Lower Upper
276 100
277 32.5 19.9 29.9#
138 32.8 20.5 30.7#

