

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121525\
 Data File : BF144478.D
 Acq On : 15 Dec 2025 17:06
 Operator : RC/JU
 Sample : Q3530-02
 Misc : LOQ-SOIL-10NG
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025

Quant Time: Dec 15 17:43:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 12 15:57:03 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 12/16/2025
 Supervised By :Jagrut Upadhyay 12/16/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	236045	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	919119	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	489657	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	829752	20.000	ng	0.00
76) Chrysene-d12	13.939	240	639640	20.000	ng	0.00
86) Perylene-d12	15.374	264	458636	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	1678641	107.228	ng	0.00
7) Phenol-d6	6.416	99	2119033	108.521	ng	0.00
23) Nitrobenzene-d5	7.357	82	1379289	93.908	ng	0.00
42) 2,4,6-Tribromophenol	10.616	330	576058	130.125	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	2407863	75.437	ng	0.00
79) Terphenyl-d14	12.898	244	2776602	68.533	ng	0.00
Target Compounds						Qvalue
4) n-Nitrosodimethylamine	3.152	42	79391m	8.825	ng	
9) Benzaldehyde	6.340	77	133544	8.736	ng	99
15) Benzyl Alcohol	6.928	79	135537	9.417	ng	99
20) 3+4-Methylphenols	7.187	107	167635	9.643	ng	# 85
32) Benzoic acid	7.781	122	56370	11.845	ng	98
35) Caprolactam	8.475	113	38030	8.763	ng	98
41) Hexachlorocyclopentadiene	8.939	237	47646	5.777	ng	96
54) 2,4-Dinitrophenol	9.875	184	16280	13.150	ng	# 40
56) 4-Nitrophenol	9.916	139	56255	9.987	ng	96
65) 4,6-Dinitro-2-methylph...	10.410	198	28287	13.643	ng	99
70) Pentachlorophenol	11.110	266	55820	9.152	ng	99
77) Benzidine	12.639	184	129321	5.678	ng	97
82) 3,3'-Dichlorobenzidine	13.898	252	118437	9.279	ng	99
85) Di-n-octyl phthalate	14.545	149	205115	11.606	ng	99

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

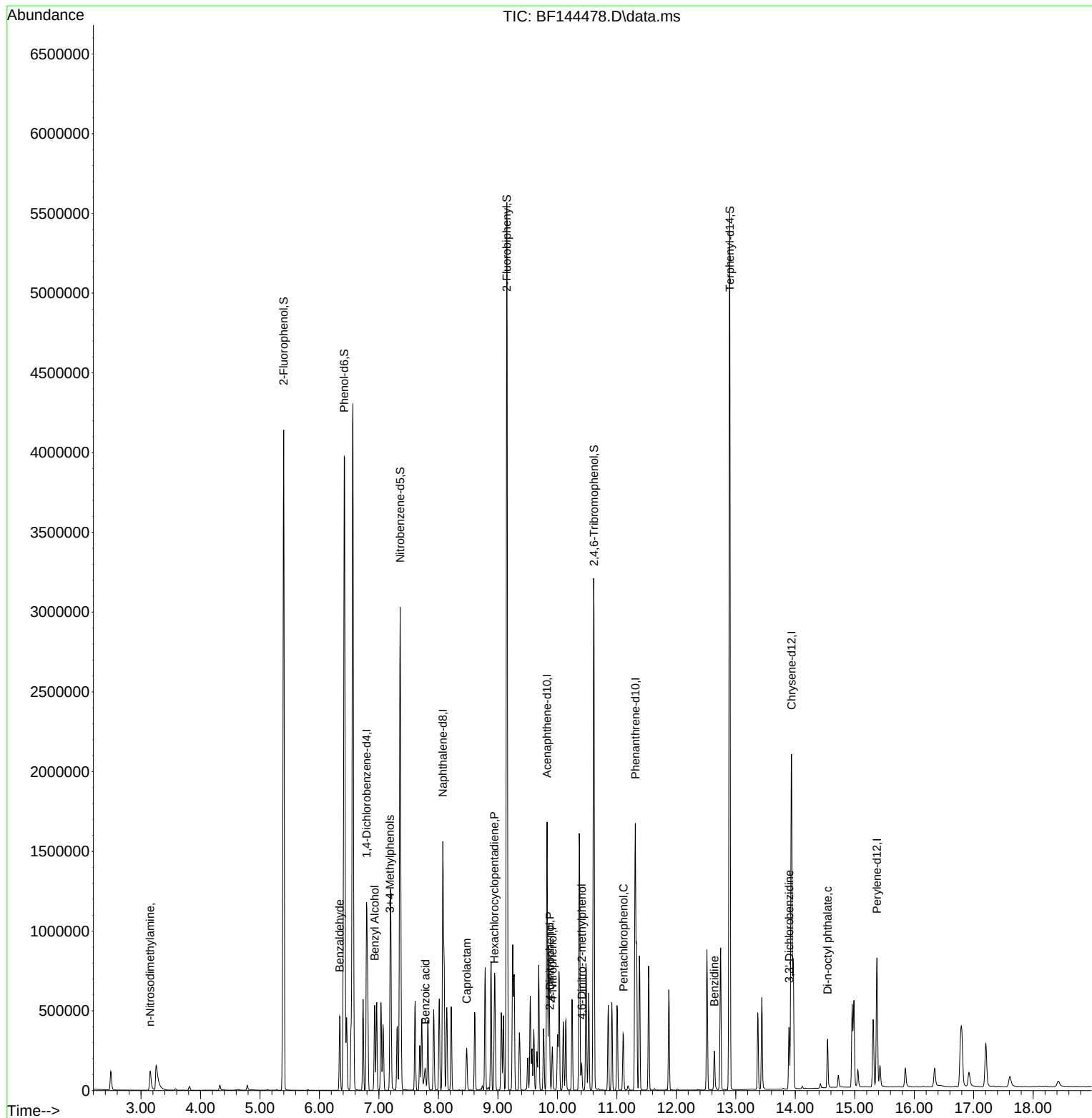
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121525\
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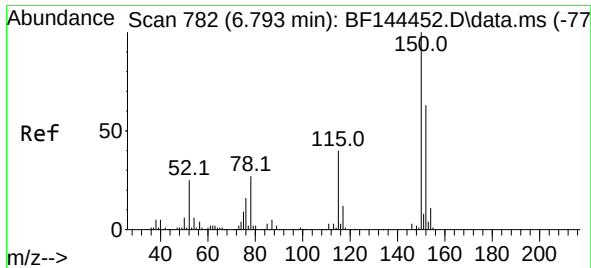
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025

Quant Time: Dec 15 17:43:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121225.M
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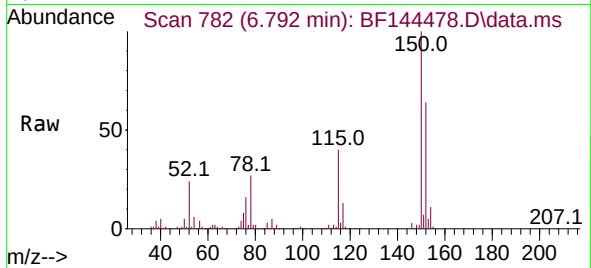
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 782
Delta R.T. -0.001 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

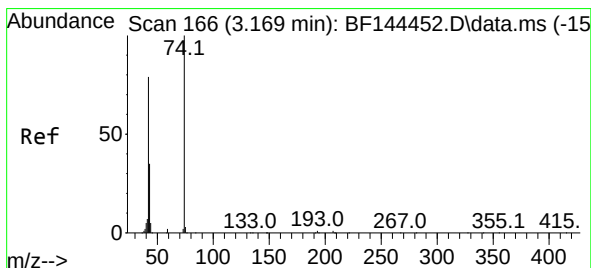
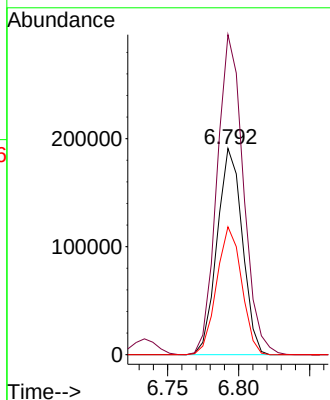
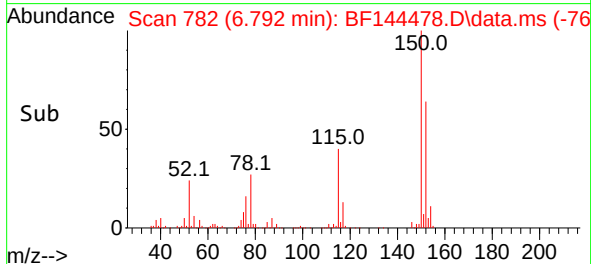
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion:152 Resp: 236045
Ion Ratio Lower Upper
152 100
150 155.2 127.4 191.2
115 62.0 51.4 77.0

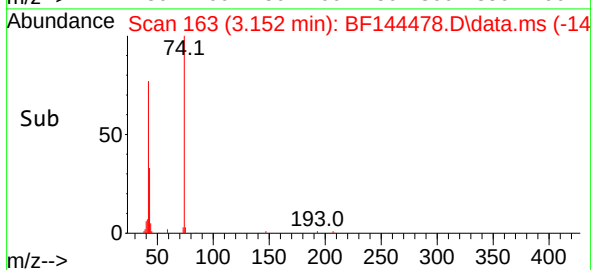
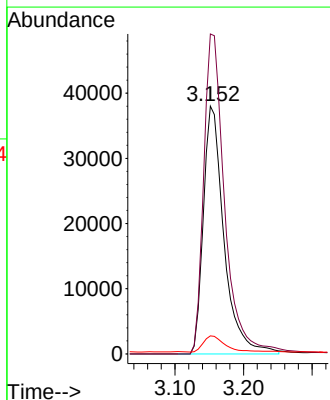
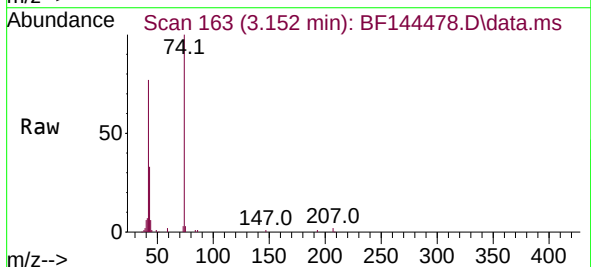
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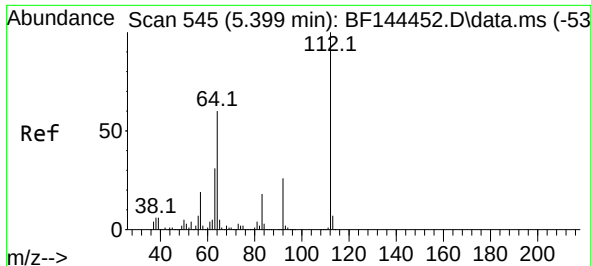
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#4
n-Nitrosodimethylamine
Concen: 8.825 ng m
RT: 3.152 min Scan# 163
Delta R.T. -0.018 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

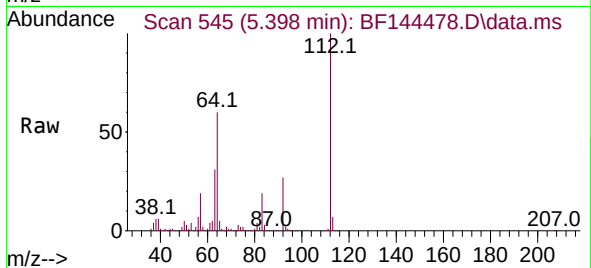
Tgt Ion: 42 Resp: 79391
Ion Ratio Lower Upper
42 100
74 129.2 101.8 152.8
44 7.3 5.7 8.5





#5
2-Fluorophenol
Concen: 107.228 ng
RT: 5.398 min Scan# 545
Delta R.T. -0.000 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

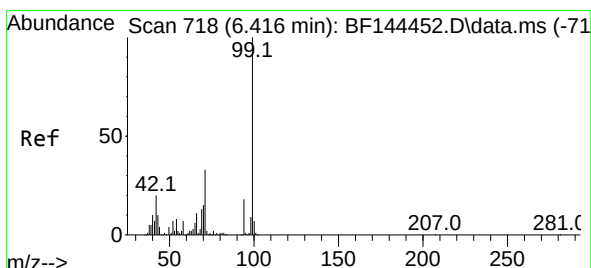
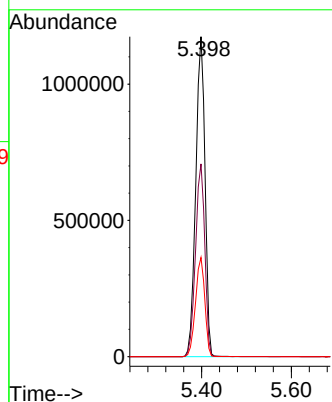
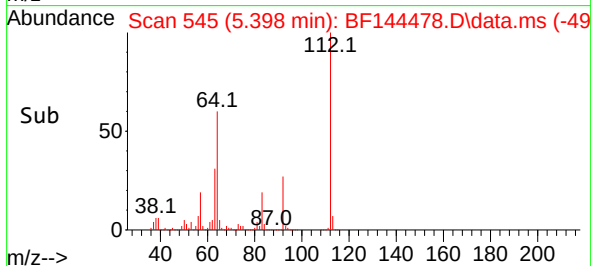
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion: 112 Resp: 167864
Ion Ratio Lower Upper
112 100
64 60.2 47.8 71.6
63 31.0 24.6 37.0

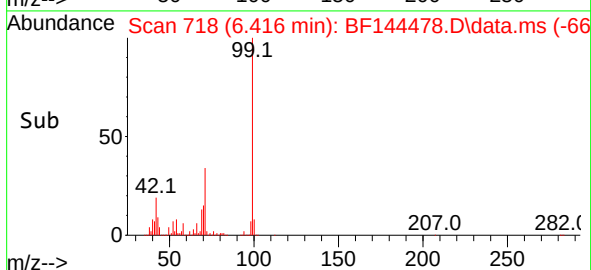
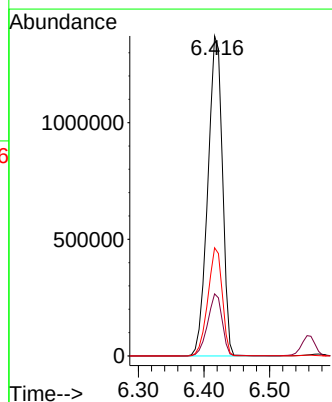
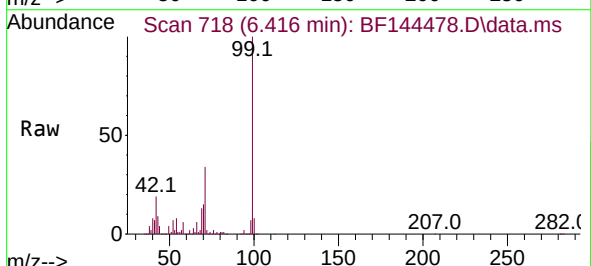
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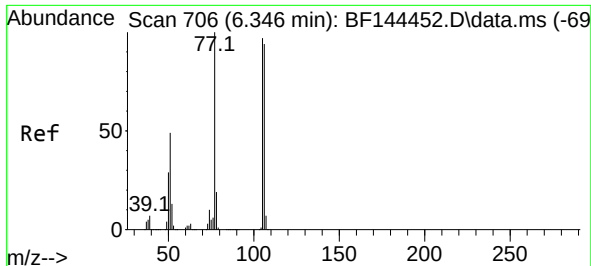
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#7
Phenol-d6
Concen: 108.521 ng
RT: 6.416 min Scan# 718
Delta R.T. -0.000 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

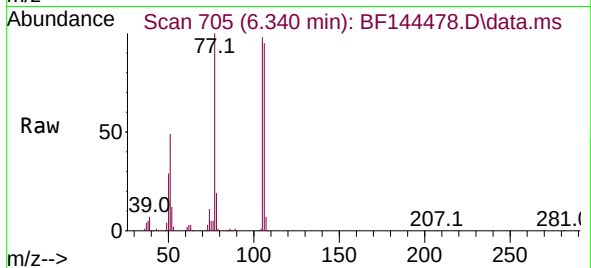
Tgt Ion: 99 Resp: 2119033
Ion Ratio Lower Upper
99 100
42 19.4 15.7 23.5
71 33.8 26.4 39.6





#9
Benzaldehyde
Concen: 8.736 ng
RT: 6.340 min Scan# 705
Delta R.T. -0.006 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

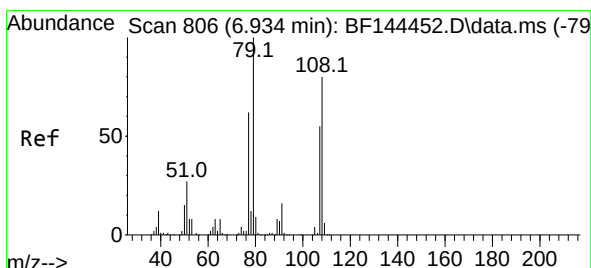
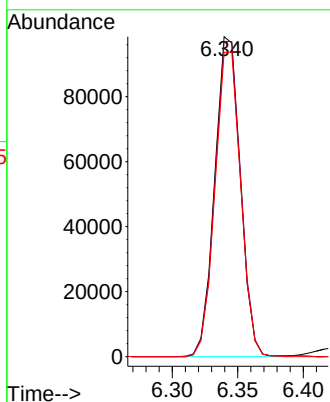
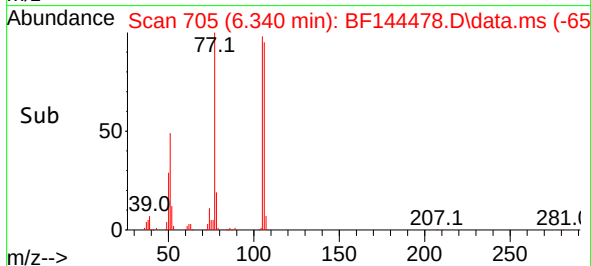
Instrument : BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion: 77 Resp: 133544
Ion Ratio Lower Upper
77 100
105 98.5 77.0 117.0
106 95.1 74.1 114.1

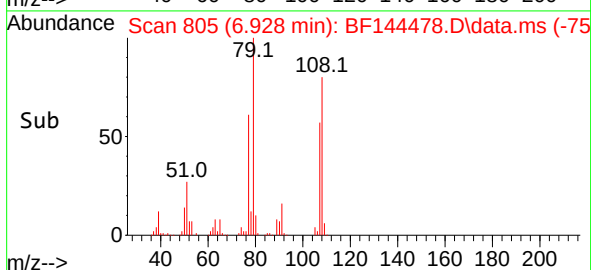
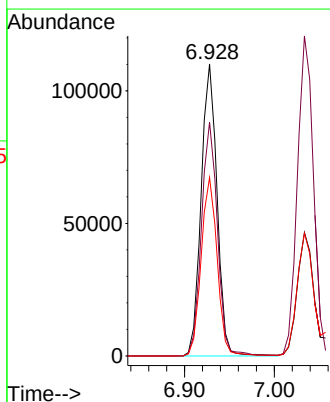
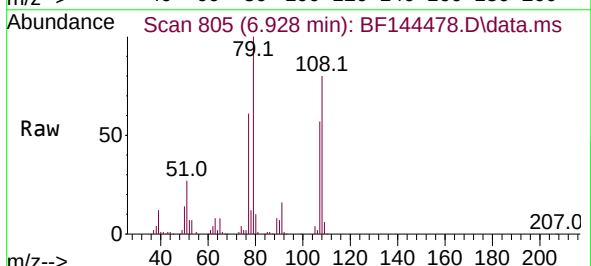
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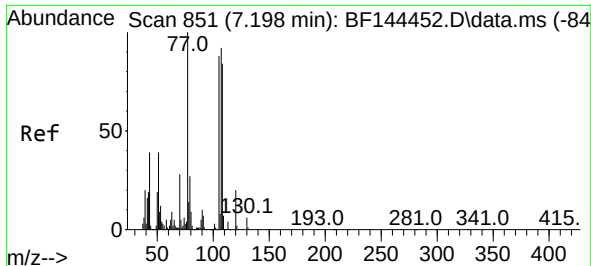
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#15
Benzyl Alcohol
Concen: 9.417 ng
RT: 6.928 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

Tgt Ion: 79 Resp: 135537
Ion Ratio Lower Upper
79 100
108 80.1 63.7 95.5
77 61.1 49.3 73.9





#20

3+4-Methylphenols

Concen: 9.643 ng

RT: 7.187 min Scan# 84

Delta R.T. -0.012 min

Lab File: BF144478.D

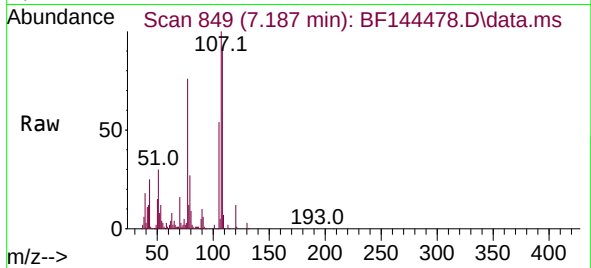
Acq: 15 Dec 2025 17:06

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2025



Tgt Ion:107 Resp: 167635

Ion Ratio Lower Upper

107 100

108 91.3 71.5 111.5

77 76.4 88.5 128.5

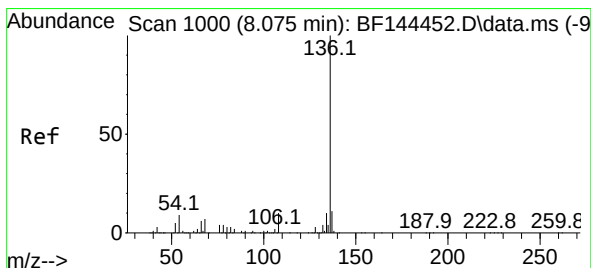
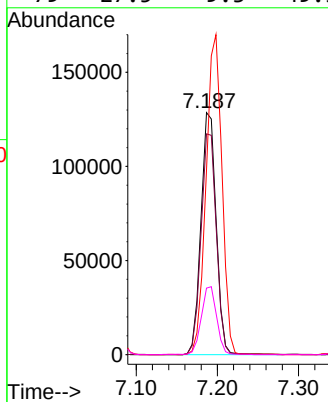
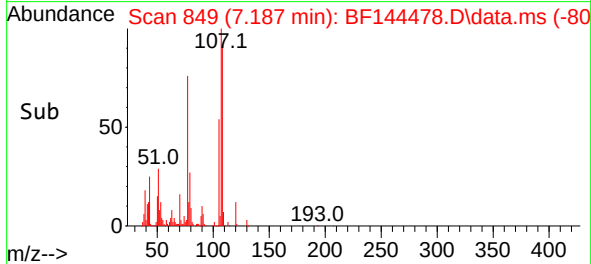
79 27.5 9.3 49.3

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Supervised By :Jagrut Upadhyay 12/16/2025



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1000

Delta R.T. -0.000 min

Lab File: BF144478.D

Acq: 15 Dec 2025 17:06

Tgt Ion:136 Resp: 919119

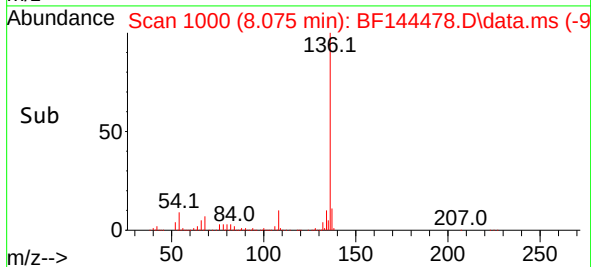
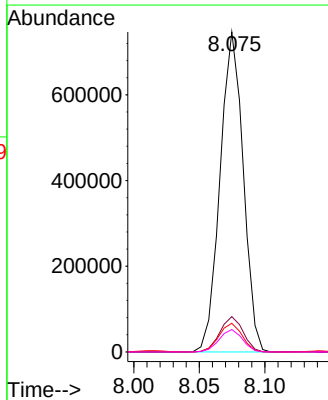
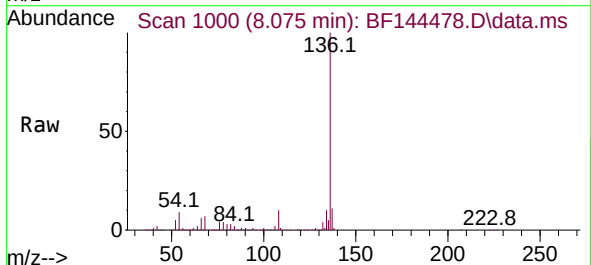
Ion Ratio Lower Upper

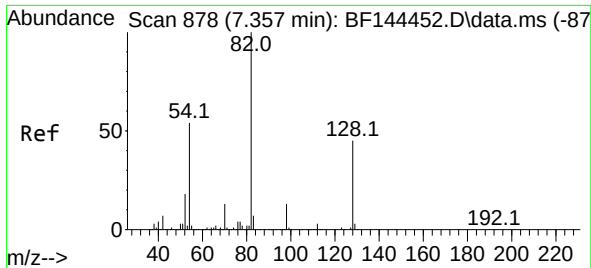
136 100

137 11.0 8.8 13.2

54 8.9 7.5 11.3

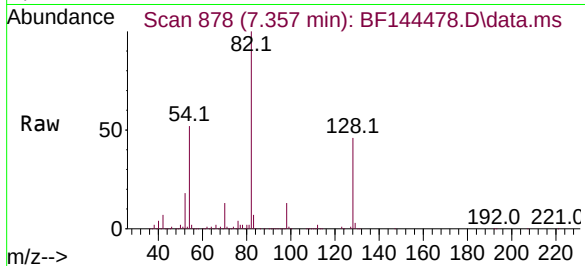
68 7.0 5.8 8.8





#23
Nitrobenzene-d5
Concen: 93.908 ng
RT: 7.357 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

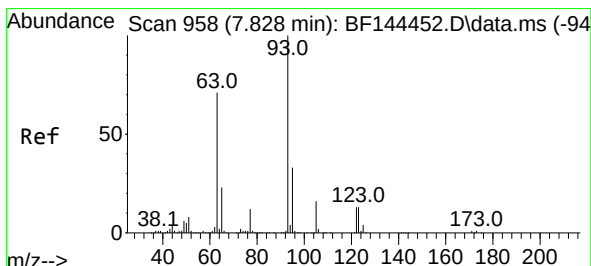
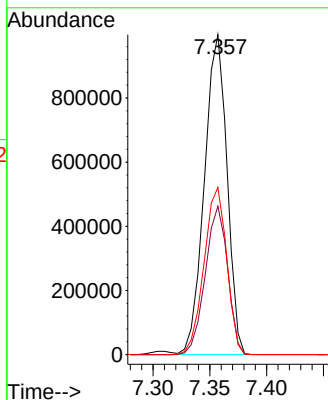
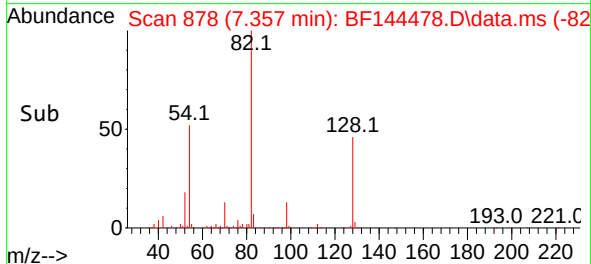
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion: 82 Resp: 1379289
Ion Ratio Lower Upper
82 100
128 46.4 35.5 53.3
54 52.2 43.3 64.9

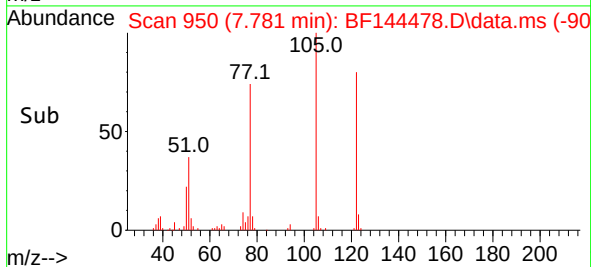
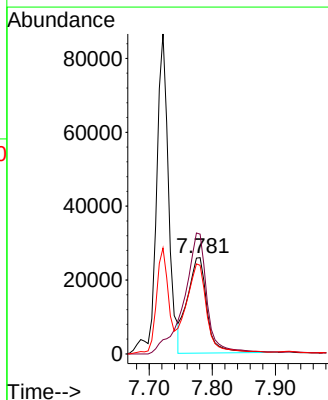
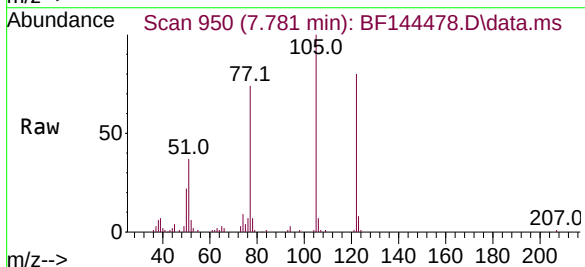
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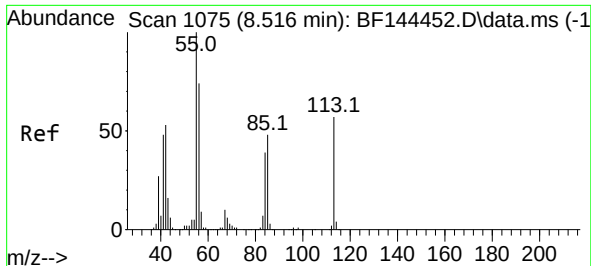
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Supervised By :Jagrut Upadhyay 12/16/2025



#32
Benzoic acid
Concen: 11.845 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.047 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

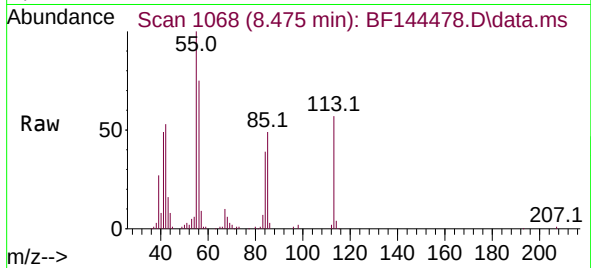
Tgt Ion:122 Resp: 56370
Ion Ratio Lower Upper
122 100
105 124.4 103.2 143.2
77 92.0 75.1 115.1





#35
 Caprolactam
 Concen: 8.763 ng
 RT: 8.475 min Scan# 1075
 Delta R.T. -0.041 min
 Lab File: BF144478.D
 Acq: 15 Dec 2025 17:06

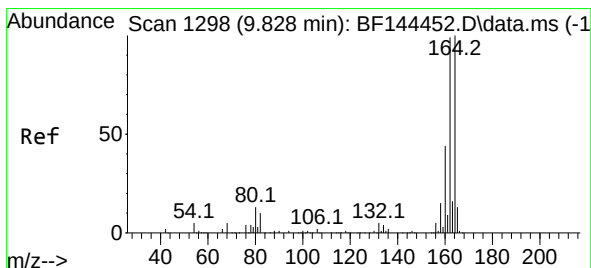
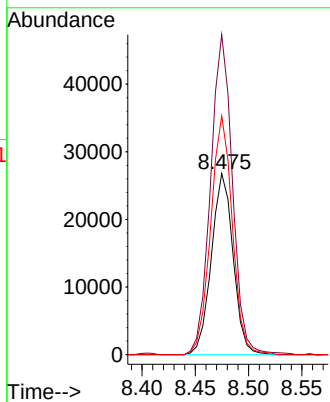
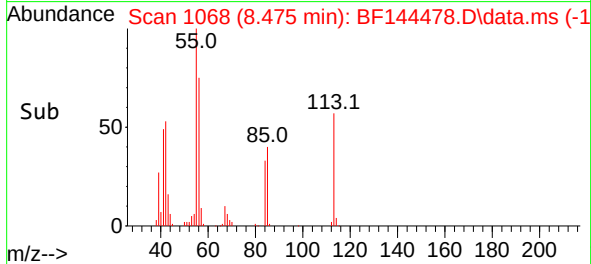
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025



Tgt Ion:113 Resp: 38036
 Ion Ratio Lower Upper
 113 100
 55 176.7 154.5 194.5
 56 131.8 109.8 149.8

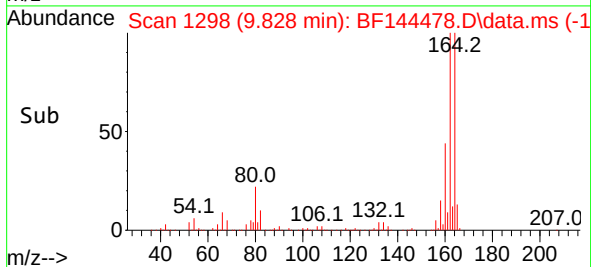
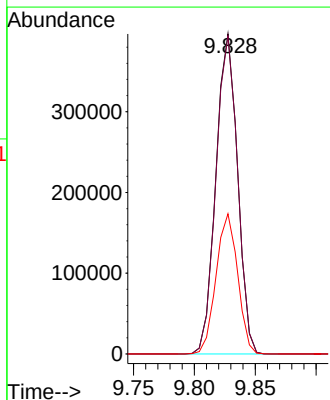
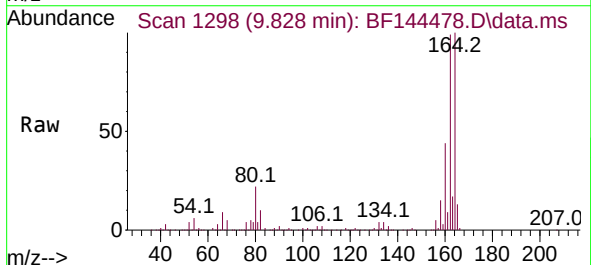
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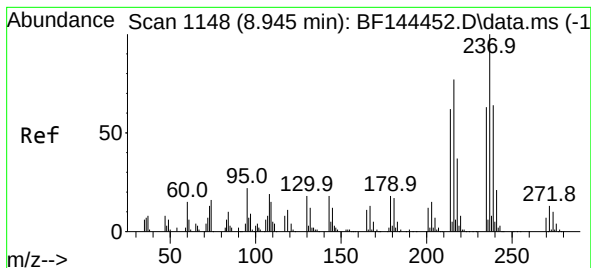
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 Supervised By :Jagrut Upadhyay 12/16/2025



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.828 min Scan# 1298
 Delta R.T. -0.000 min
 Lab File: BF144478.D
 Acq: 15 Dec 2025 17:06

Tgt Ion:164 Resp: 489657
 Ion Ratio Lower Upper
 164 100
 162 99.4 79.2 118.8
 160 43.8 35.3 52.9





#41

Hexachlorocyclopentadiene

Concen: 5.777 ng

RT: 8.939 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF144478.D

Acq: 15 Dec 2025 17:06

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2025

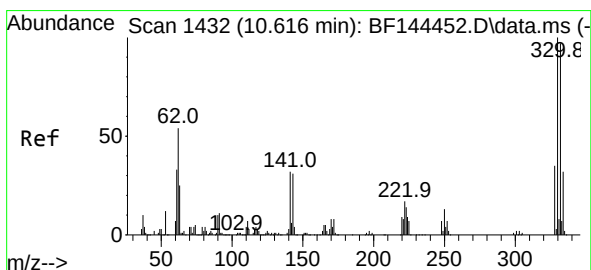
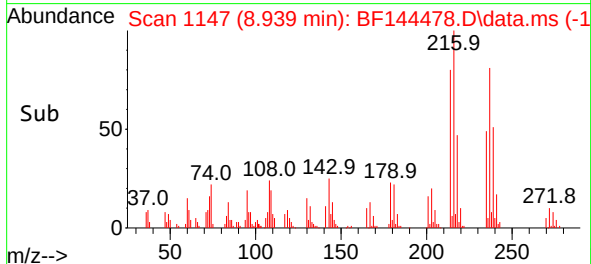
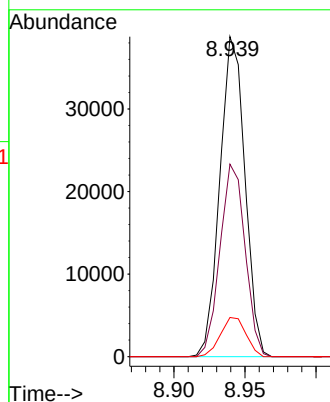
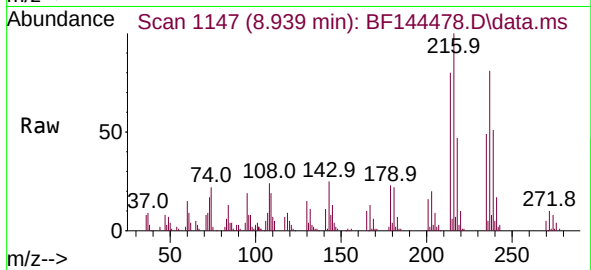
Tgt Ion:	237	Resp:	47646
Ion Ratio	Lower	Upper	
237	100		
235	60.1	43.2	83.2
272	12.2	0.0	33.2

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 130.125 ng

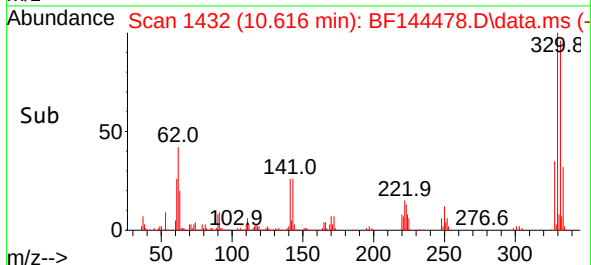
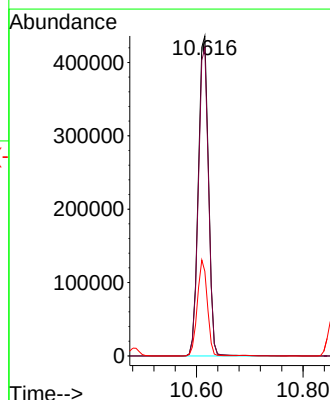
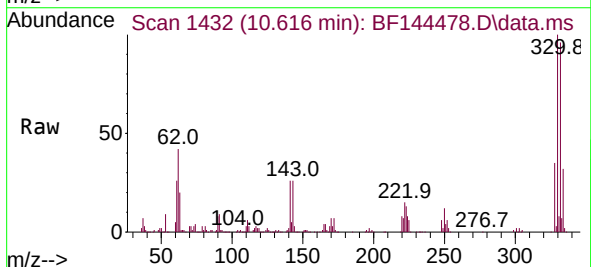
RT: 10.616 min Scan# 1432

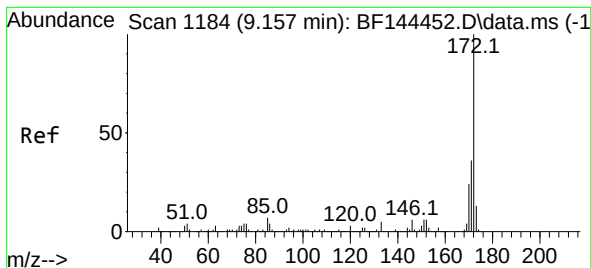
Delta R.T. -0.000 min

Lab File: BF144478.D

Acq: 15 Dec 2025 17:06

Tgt Ion:	330	Resp:	576058
Ion Ratio	Lower	Upper	
330	100		
332	96.2	77.5	116.3
141	29.4	26.2	39.2





#45

2-Fluorobiphenyl

Concen: 75.437 ng

RT: 9.151 min Scan# 1183

Delta R.T. -0.006 min

Lab File: BF144478.D

Acq: 15 Dec 2025 17:06

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2025

Tgt Ion:172 Resp: 2407863

Ion Ratio Lower Upper

172 100

171 36.5 28.7 43.1

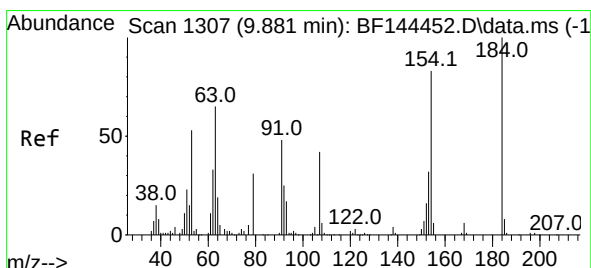
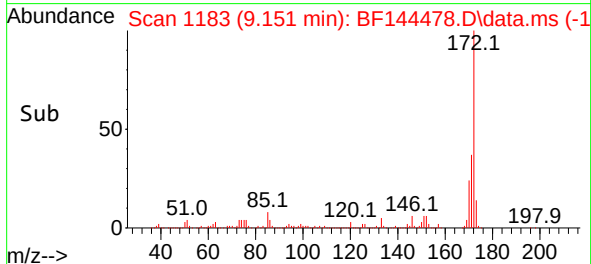
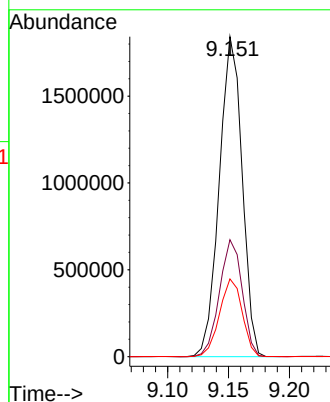
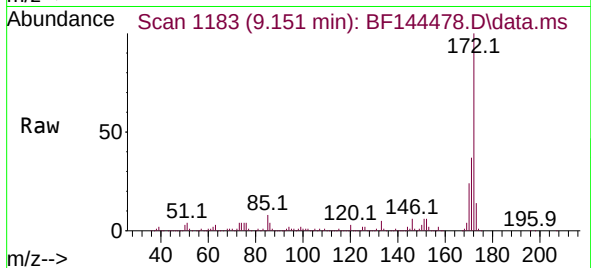
170 24.3 19.3 28.9

Manual Integrations

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Reviewed By :Rahul Chavli 12/16/2025

Supervised By :Jagrut Upadhyay 12/16/2025



#54

2,4-Dinitrophenol

Concen: 13.150 ng

RT: 9.875 min Scan# 1306

Delta R.T. -0.006 min

Lab File: BF144478.D

Acq: 15 Dec 2025 17:06

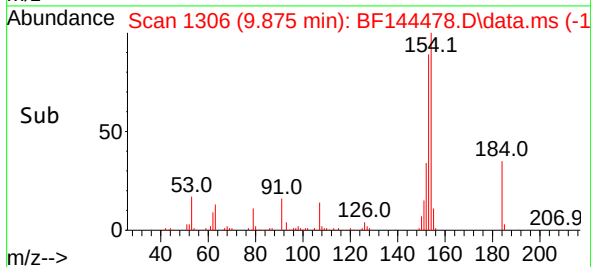
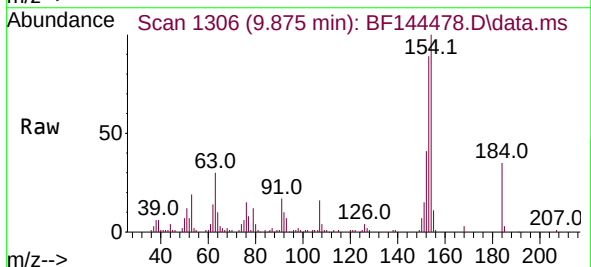
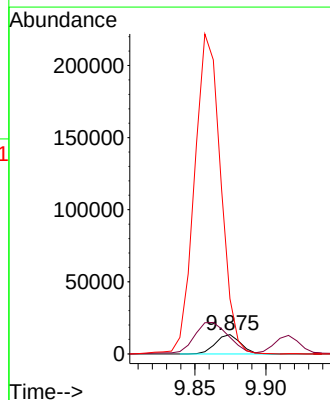
Tgt Ion:184 Resp: 16280

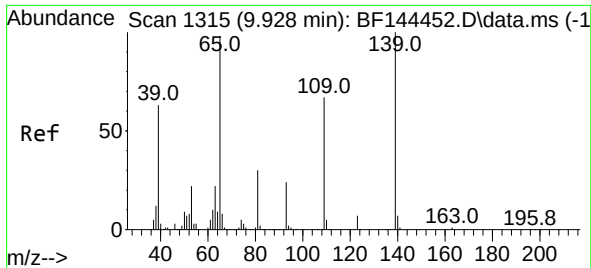
Ion Ratio Lower Upper

184 100

63 85.3 60.6 91.0

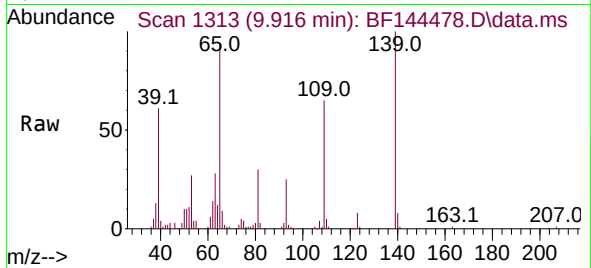
154 284.8 137.8 206.8#





#56
4-Nitrophenol
Concen: 9.987 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.012 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

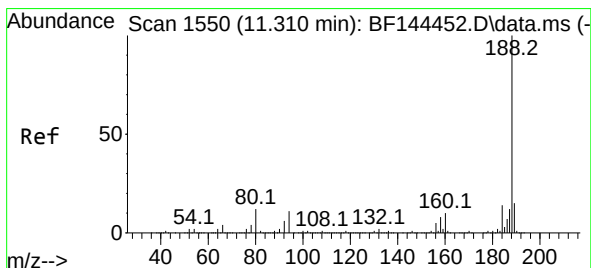
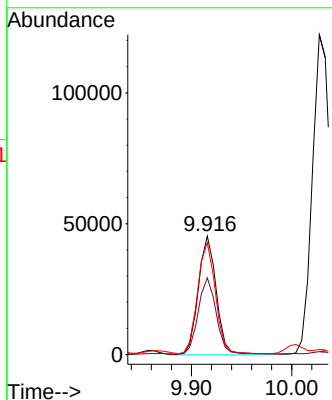
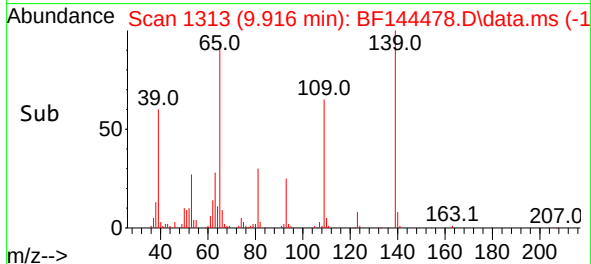
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion:139 Resp: 5625
Ion Ratio Lower Upper
139 100
109 64.8 47.4 87.4
65 94.5 78.4 118.4

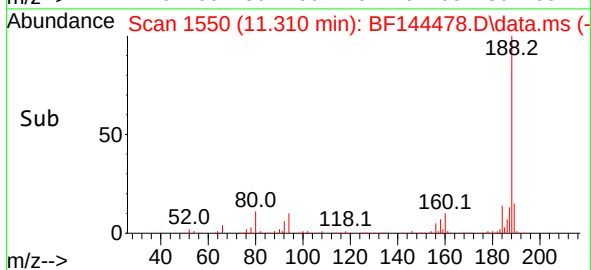
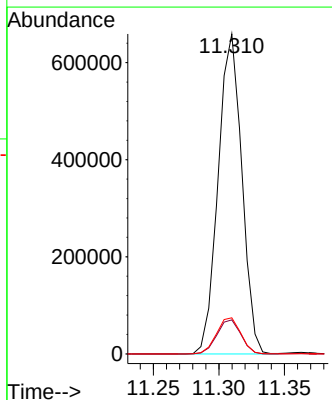
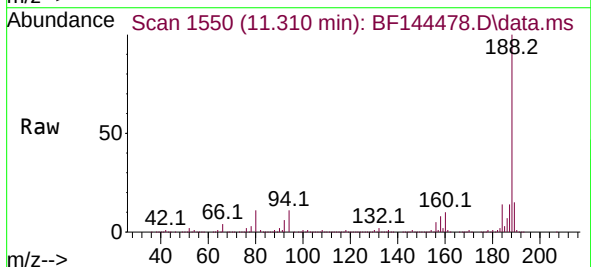
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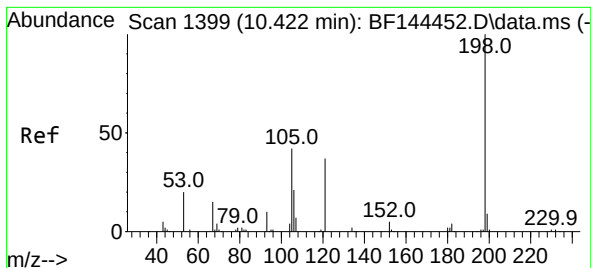
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

Tgt Ion:188 Resp: 829752
Ion Ratio Lower Upper
188 100
94 10.6 9.0 13.6
80 11.3 9.8 14.8





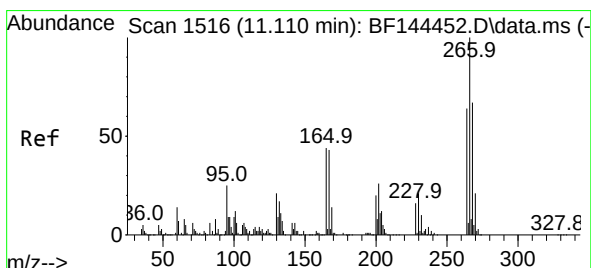
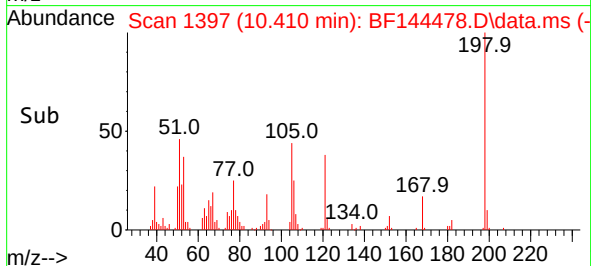
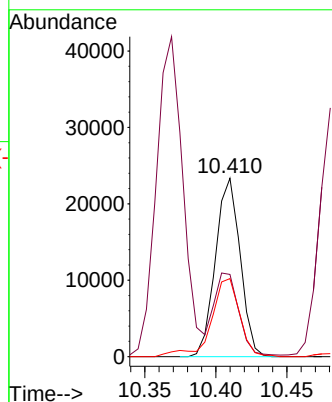
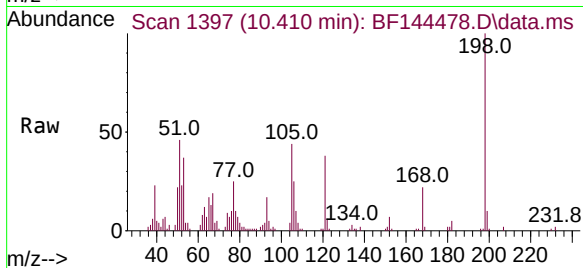
#65
4,6-Dinitro-2-methylphenol
Concen: 13.643 ng
RT: 10.410 min Scan# 1399
Delta R.T. -0.012 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025

Tgt Ion:198 Resp: 2828
Ion Ratio Lower Upper
198 100
51 46.0 25.5 65.5
105 43.7 23.4 63.4

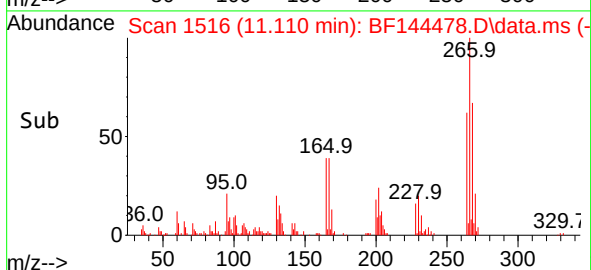
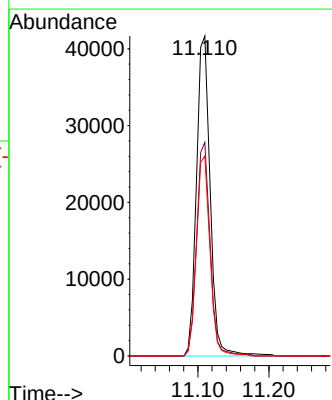
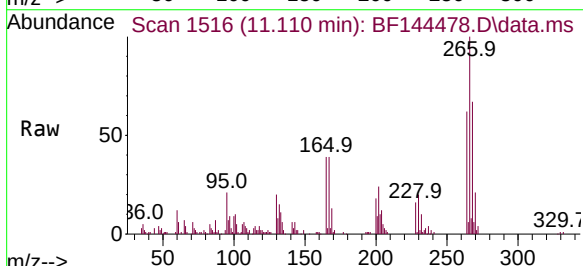
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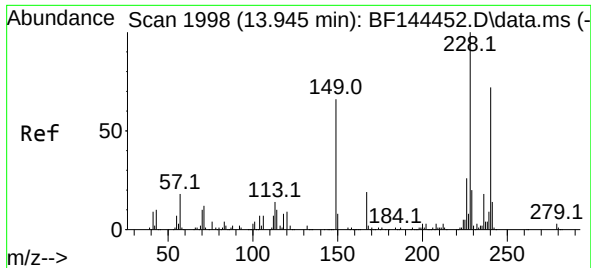
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#70
Pentachlorophenol
Concen: 9.152 ng
RT: 11.110 min Scan# 1516
Delta R.T. -0.000 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

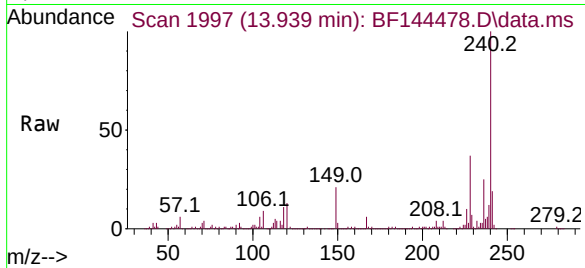
Tgt Ion:266 Resp: 55820
Ion Ratio Lower Upper
266 100
268 66.7 53.8 80.8
264 62.4 51.2 76.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 1997
Delta R.T. -0.006 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

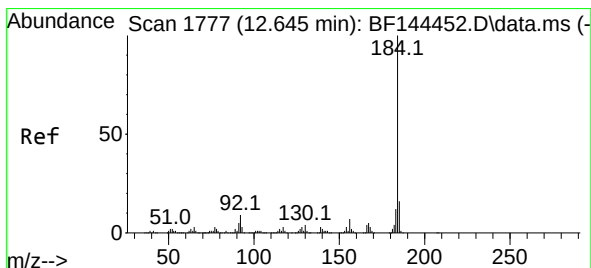
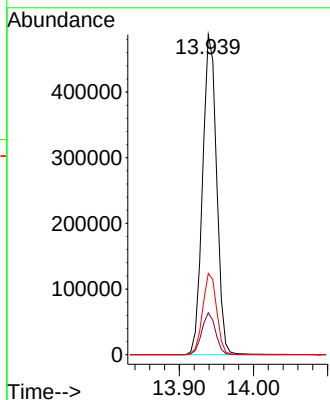
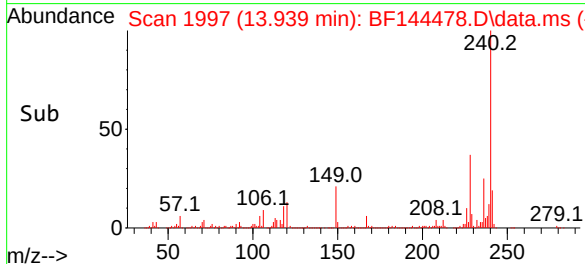
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion:240 Resp: 639640
Ion Ratio Lower Upper
240 100
120 13.1 10.3 15.5
236 25.4 20.2 30.4

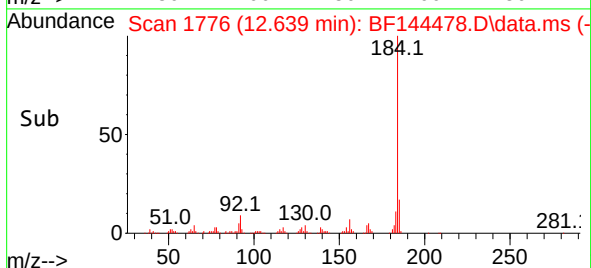
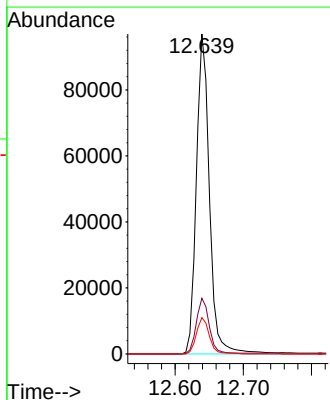
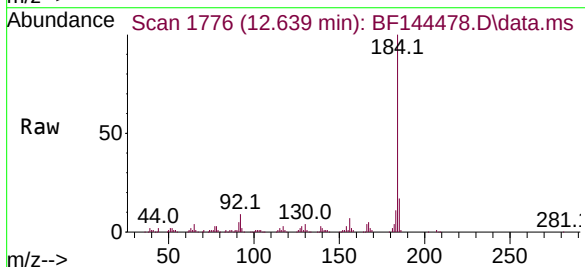
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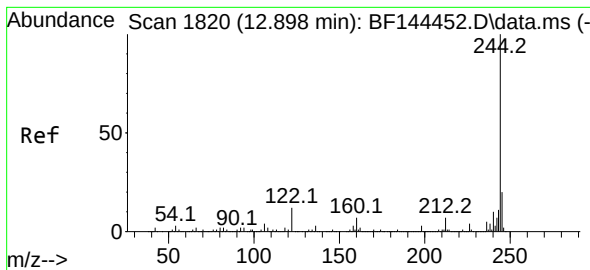
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#77
Benzidine
Concen: 5.678 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

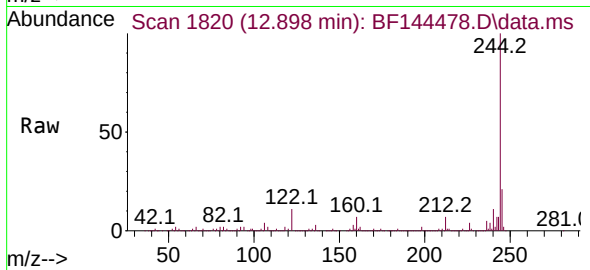
Tgt Ion:184 Resp: 129321
Ion Ratio Lower Upper
184 100
185 17.4 12.6 18.8
183 11.3 9.4 14.0





#79
 Terphenyl-d14
 Concen: 68.533 ng
 RT: 12.898 min Scan# 1820
 Delta R.T. -0.000 min
 Lab File: BF144478.D
 Acq: 15 Dec 2025 17:06

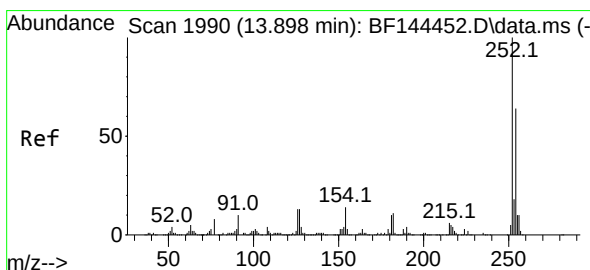
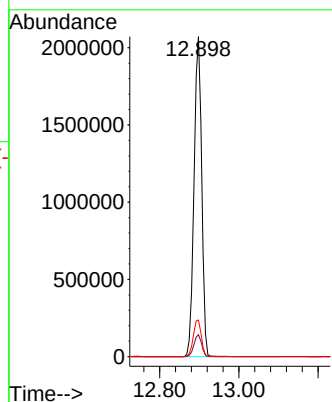
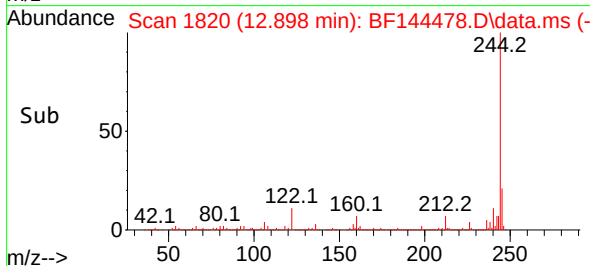
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2025



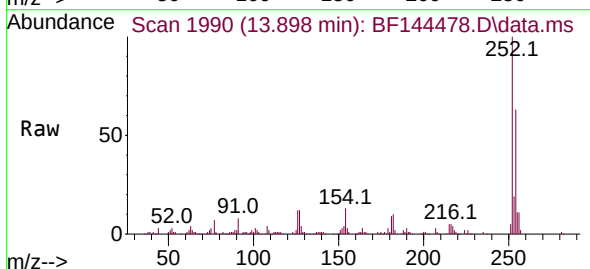
Tgt Ion:244 Resp: 2776602
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.7 8.5
 122 11.4 9.9 14.9

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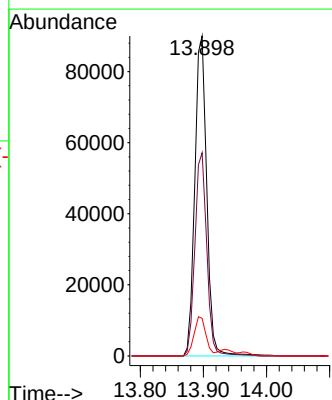
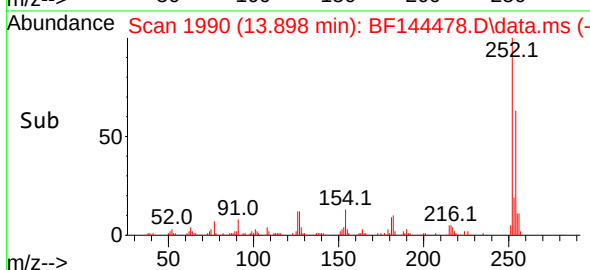
Reviewed By :Rahul Chavli 12/16/2025
 Supervised By :Jagrut Upadhyay 12/16/2025

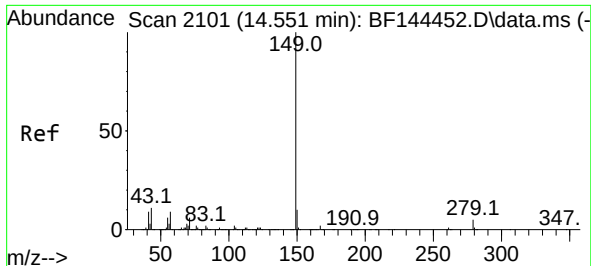


#82
 3,3'-Dichlorobenzidine
 Concen: 9.279 ng
 RT: 13.898 min Scan# 1990
 Delta R.T. -0.000 min
 Lab File: BF144478.D
 Acq: 15 Dec 2025 17:06



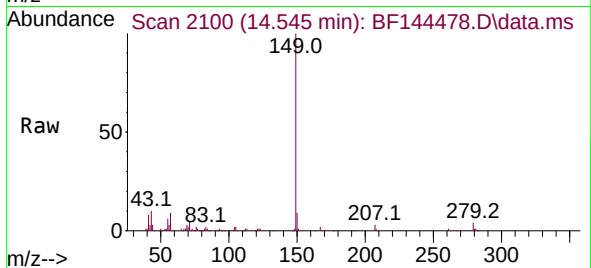
Tgt Ion:252 Resp: 118437
 Ion Ratio Lower Upper
 252 100
 254 63.5 51.1 76.7
 126 11.7 10.4 15.6





#85
Di-n-octyl phthalate
Concen: 11.606 ng
RT: 14.545 min Scan# 2100
Delta R.T. -0.006 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

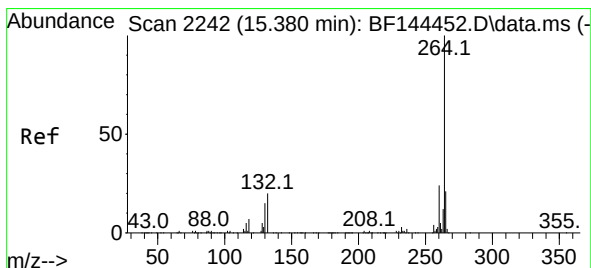
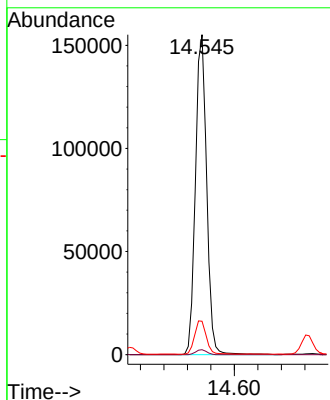
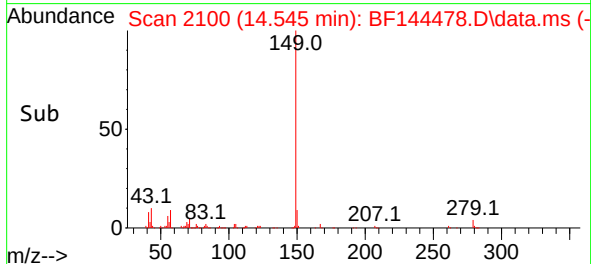
Instrument : BNA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2025



Tgt Ion:149 Resp: 205115
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 10.9 9.2 13.8

Manual Integrations
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Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.374 min Scan# 2241
Delta R.T. -0.006 min
Lab File: BF144478.D
Acq: 15 Dec 2025 17:06

Tgt Ion:264 Resp: 458636
Ion Ratio Lower Upper
264 100
260 23.6 19.0 28.6
265 21.7 17.1 25.7

