

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
 Data File : BN038308.D
 Acq On : 10 Dec 2025 15:54
 Operator : RC/JU
 Sample : Q3483-11DL 100X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-BNA-SOILD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/12/2025
 Supervised By :mohammad ahmed 12/13/2025

Quant Time: Dec 10 16:29:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 10 13:56:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	6022	0.400	ng	0.00
7) Naphthalene-d8	10.530	136	16658	0.400	ng	0.00
13) Acenaphthene-d10	14.398	164	8653	0.400	ng	0.00
19) Phenanthrene-d10	17.149	188	15536	0.400	ng	# 0.00
29) Chrysene-d12	21.349	240	12910	0.400	ng	0.00
35) Perylene-d12	23.642	264	13075	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	13822	0.922	ng	0.00
5) Phenol-d6	6.887	99	17157	0.962	ng	0.00
8) Nitrobenzene-d5	8.875	82	8104	0.577	ng	0.00
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng	
14) 2,4,6-Tribromophenol	15.895	330	4554	1.186	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	25293	0.607	ng	0.00
27) Fluoranthene-d10	0.000	212	0d	0.000	ng	
31) Terphenyl-d14	19.791	244	23987	0.833	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.147	93	32335	1.854	ng	98
9) Naphthalene	10.573	128	60920	1.237	ng	99
10) Hexachlorobutadiene	10.872	225	13067	1.493	ng	# 100
12) 2-Methylnaphthalene	12.202	142	48416	1.549	ng	99
16) Acenaphthylene	14.110	152	30976	0.729	ng	99
17) Acenaphthene	14.462	154	31663	1.070	ng	98
18) Fluorene	15.446	166	57963	1.522	ng	99
22) Hexachlorobenzene	16.466	284	15423	1.113	ng	99
24) Pentachlorophenol	16.801	266	5563	1.029	ng	99
26) Anthracene	17.285	178	35324	0.758	ng	100
32) Benzo(a)anthracene	21.331	228	48333	0.969	ng	99
33) Chrysene	21.384	228	24843	0.452	ng	99
34) Bis(2-ethylhexyl)phtha...	21.268	149	1251	0.046	ng	# 95
37) Benzo(b)fluoranthene	22.949	252	29224	0.487	ng	97
38) Benzo(k)fluoranthene	22.996	252	60104m	1.004	ng	
39) Benzo(a)pyrene	23.540	252	50254	1.023	ng	# 86

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

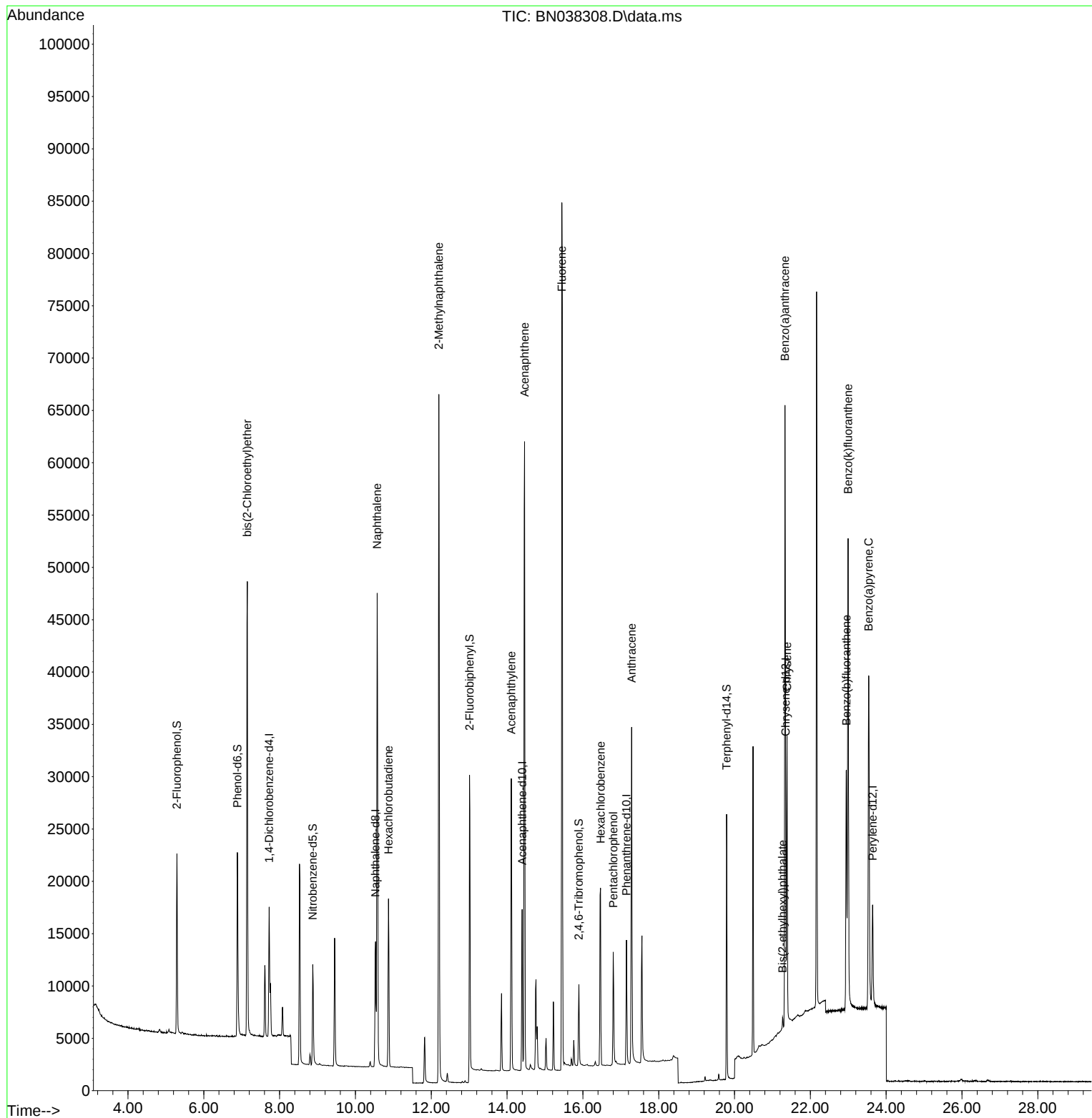
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
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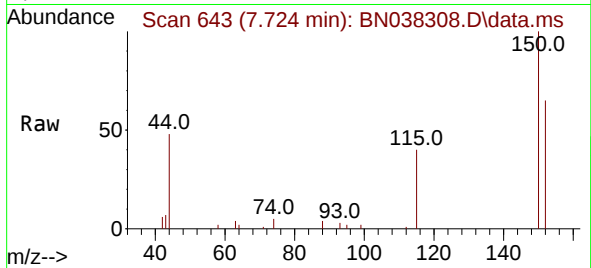
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 643
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

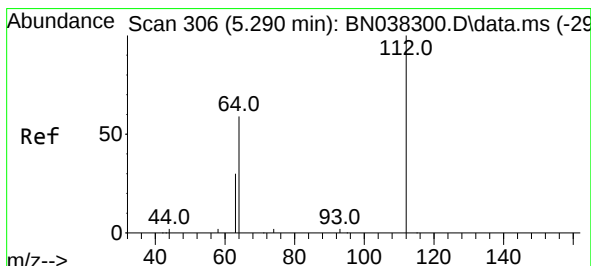
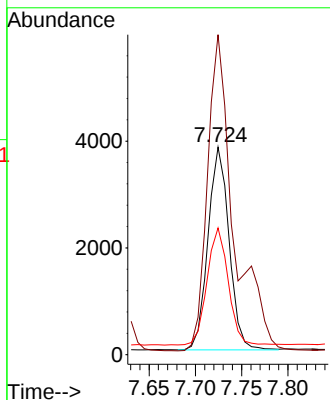
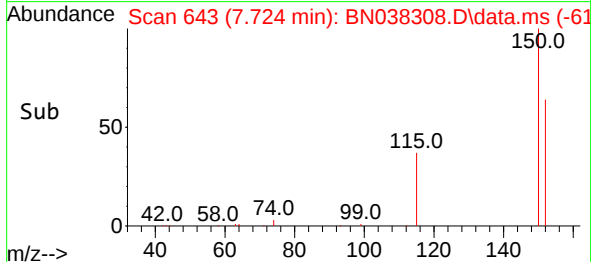
Instrument :
BNA_N
ClientSampleId :
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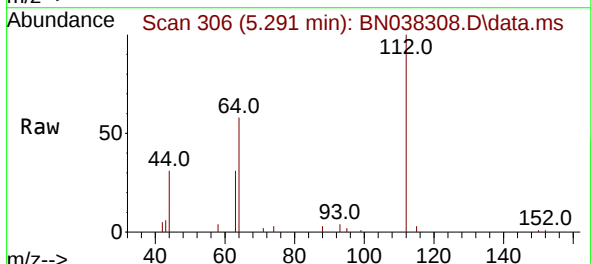
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Ion Ratio Lower Upper
152 100
150 154.2 122.4 183.6
115 61.0 47.3 70.9

Manual Integrations
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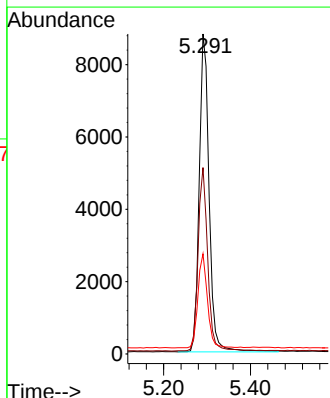
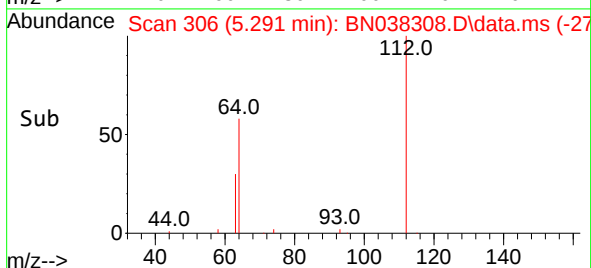
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025

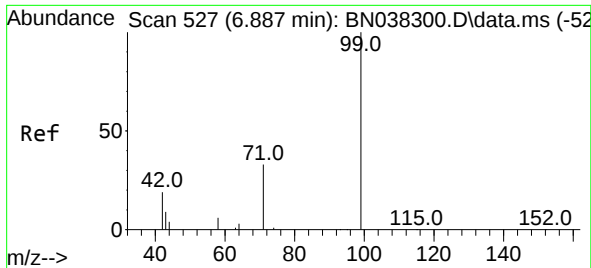


#4
2-Fluorophenol
Concen: 0.922 ng
RT: 5.291 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54



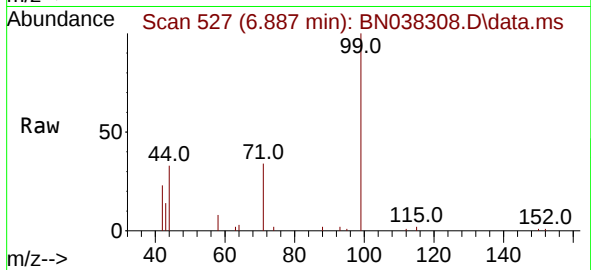
Tgt Ion:112 Resp: 13822
Ion Ratio Lower Upper
112 100
64 56.9 44.4 66.6
63 28.8 23.4 35.0





#5
Phenol-d6
Concen: 0.962 ng
RT: 6.887 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

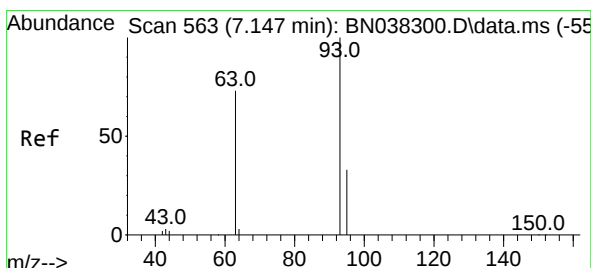
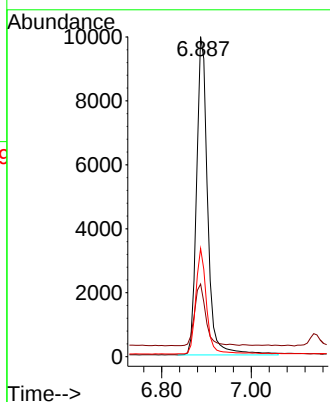
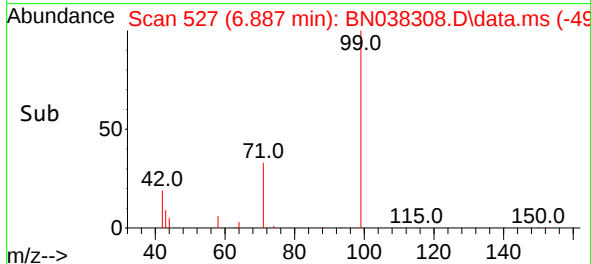
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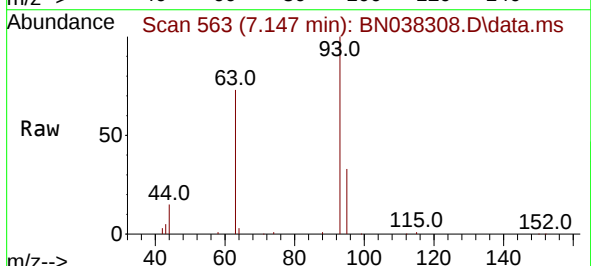
Tgt Ion: 99 Resp: 1715
Ion Ratio Lower Upper
99 100
42 19.6 16.5 24.7
71 32.0 24.9 37.3

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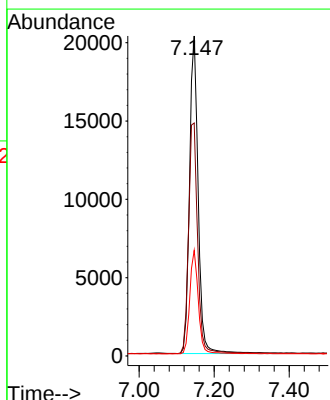
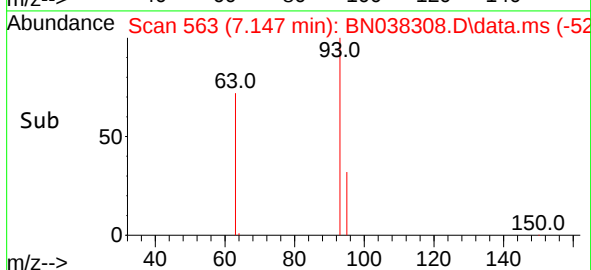
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025

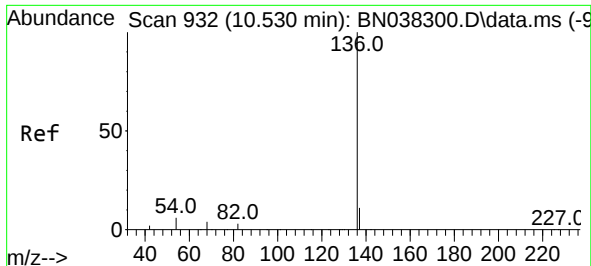


#6
bis(2-Chloroethyl)ether
Concen: 1.854 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54



Tgt Ion: 93 Resp: 32335
Ion Ratio Lower Upper
93 100
63 76.3 59.2 88.8
95 32.4 25.2 37.8





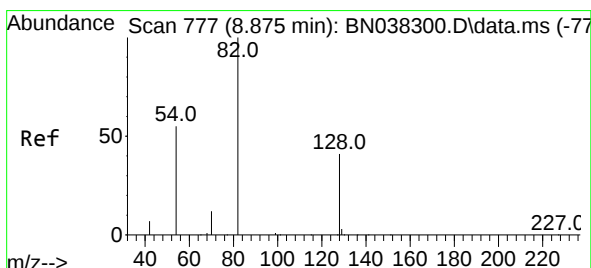
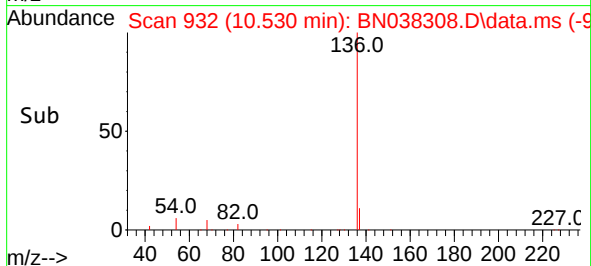
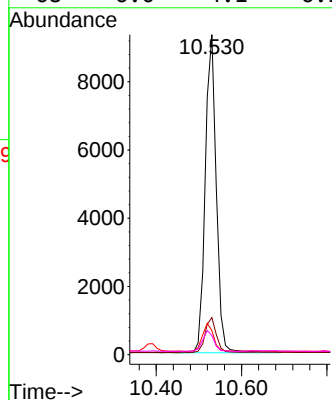
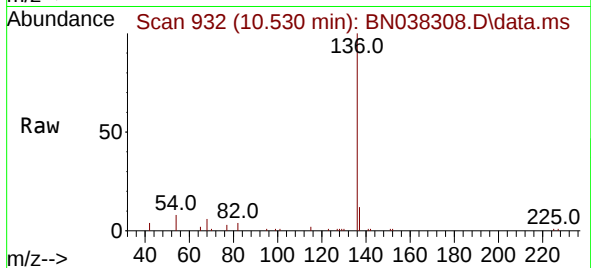
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILD

Tgt Ion:136 Resp: 16658
Ion Ratio Lower Upper
136 100
137 11.6 9.1 13.7
54 7.5 5.2 7.8
68 6.0 4.1 6.1

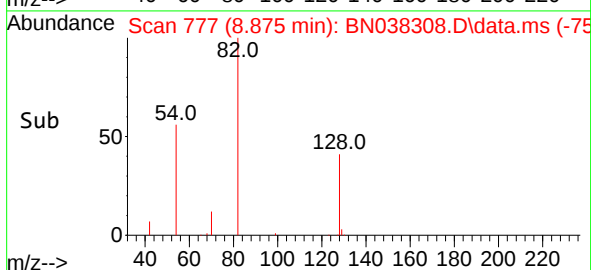
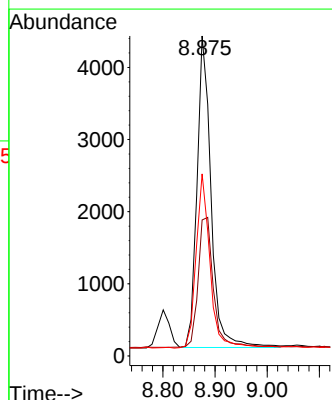
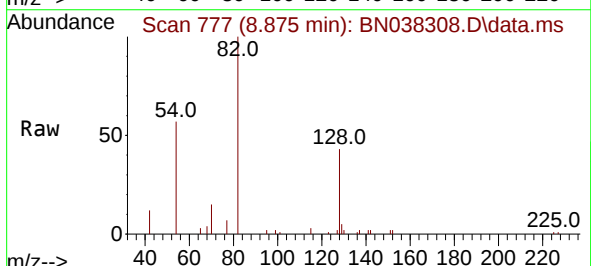
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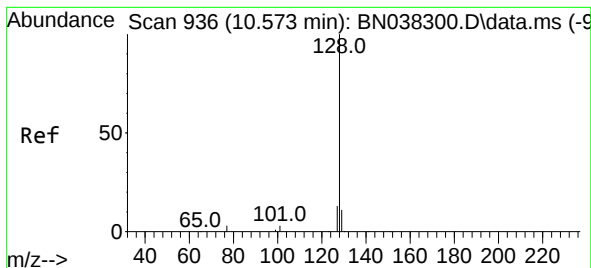
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025



#8
Nitrobenzene-d5
Concen: 0.577 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

Tgt Ion: 82 Resp: 8104
Ion Ratio Lower Upper
82 100
128 42.5 34.0 51.0
54 56.9 44.4 66.6





#9

Naphthalene

Concen: 1.237 ng

RT: 10.573 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

Instrument :

BNA_N

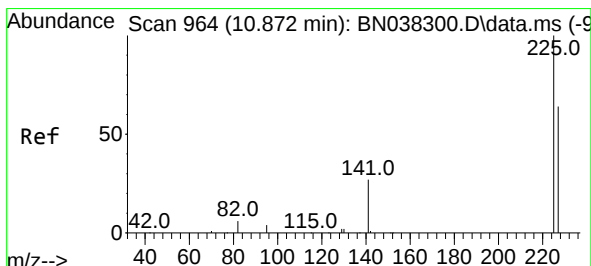
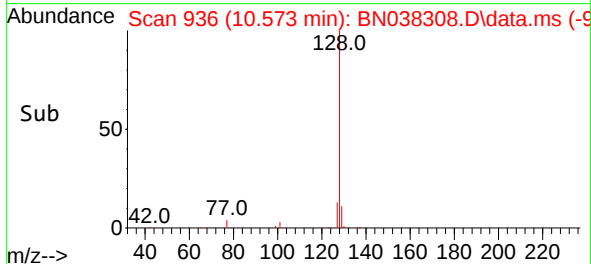
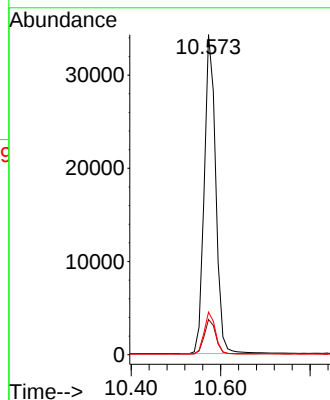
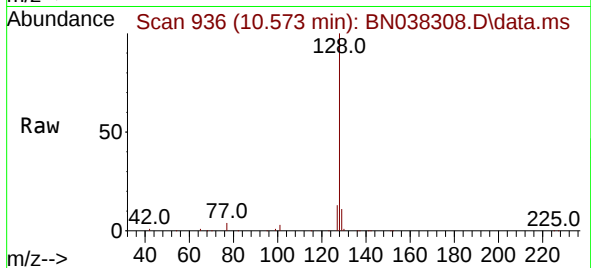
ClientSampleId :

HW1025-PT-BNA-SOILD

Tgt Ion:	128	Resp:	60920
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.1	13.7
127	13.3	10.9	16.3

Manual Integrations
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Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025



#10

Hexachlorobutadiene

Concen: 1.493 ng

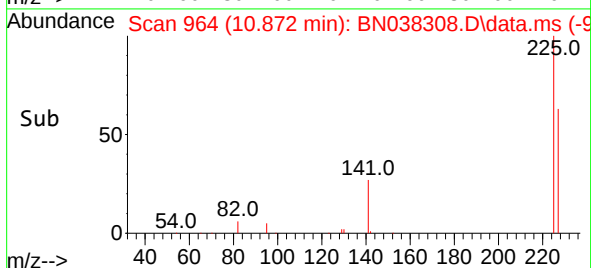
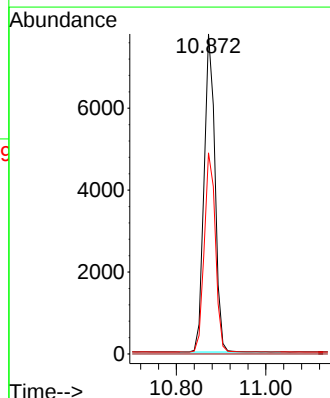
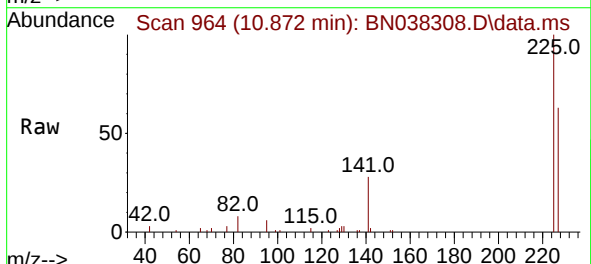
RT: 10.872 min Scan# 964

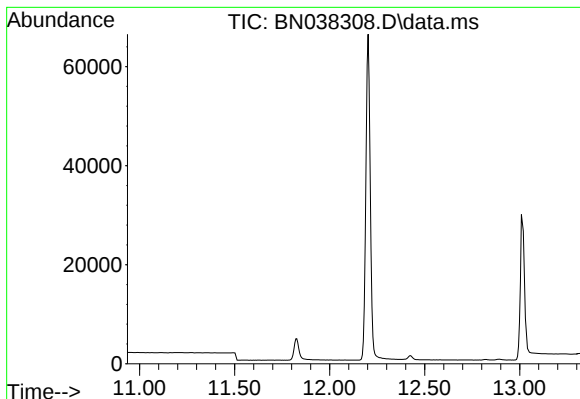
Delta R.T. 0.000 min

Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

Tgt Ion:	225	Resp:	13067
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.1	51.2	76.8





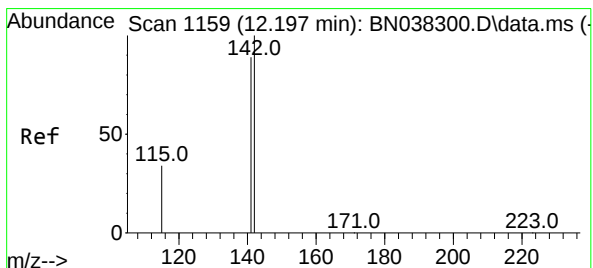
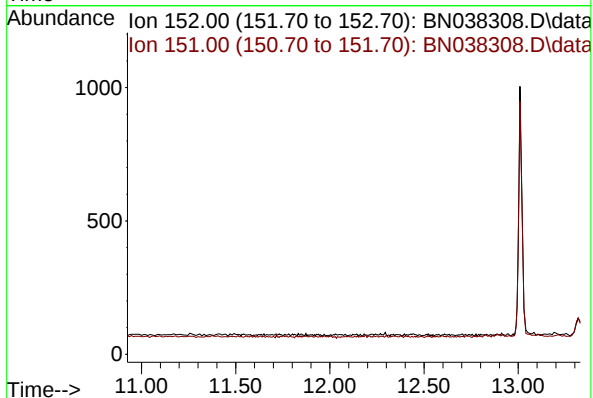
#11
 2-Methylnaphthalene-d10
 Concen: 0.000 ng
 Expected RT: 12.13 min
 Lab File: BN038308.D
 Acq: 10 Dec 2025 15:54

Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-BNA-SOILD

Tgt Ion: 152
 Sig Exp Ratio
 152 100
 151 21.3

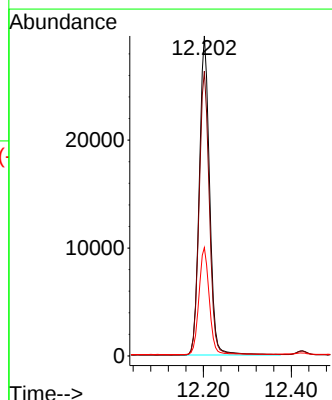
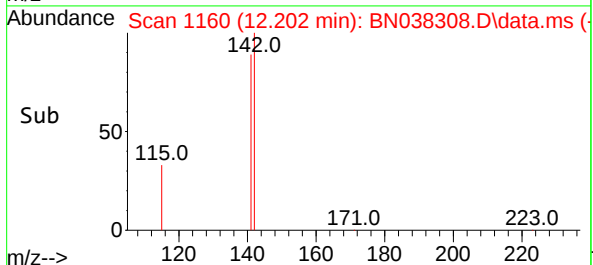
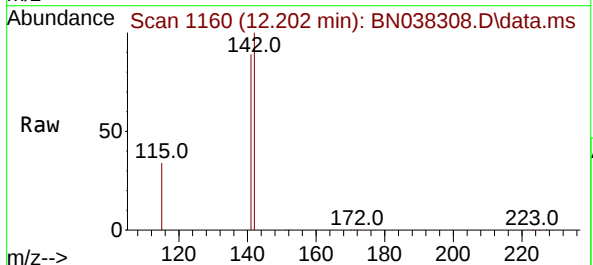
Manual Integrations
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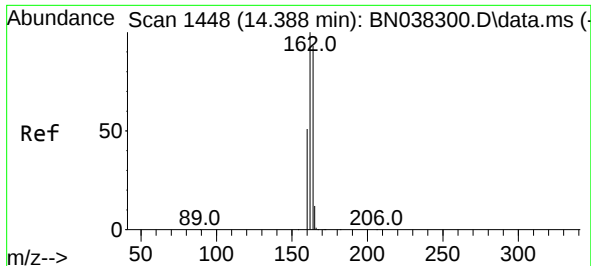
Reviewed By :Yogesh Patel 12/12/2025
 Supervised By :mohammad ahmed 12/13/2025



#12
 2-Methylnaphthalene
 Concen: 1.549 ng
 RT: 12.202 min Scan# 1160
 Delta R.T. 0.000 min
 Lab File: BN038308.D
 Acq: 10 Dec 2025 15:54

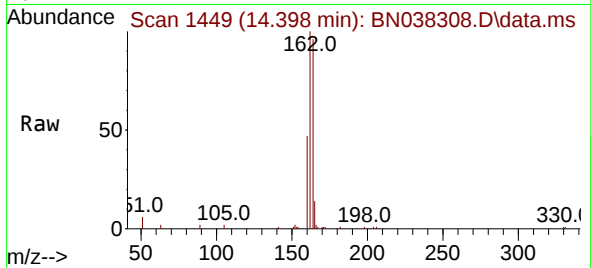
Tgt Ion:142 Resp: 48416
 Ion Ratio Lower Upper
 142 100
 141 89.0 71.4 107.2
 115 33.8 28.4 42.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.398 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

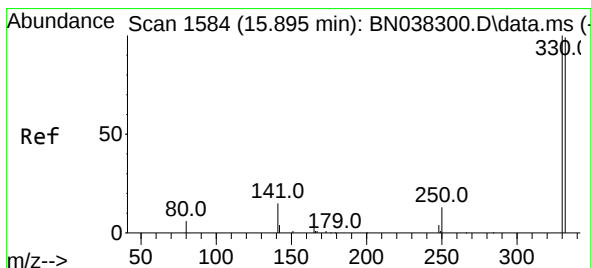
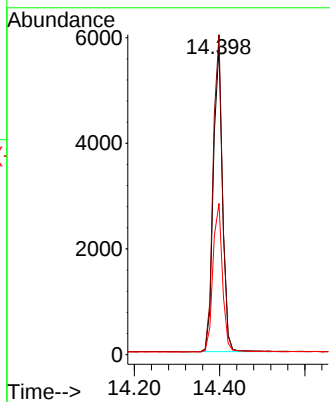
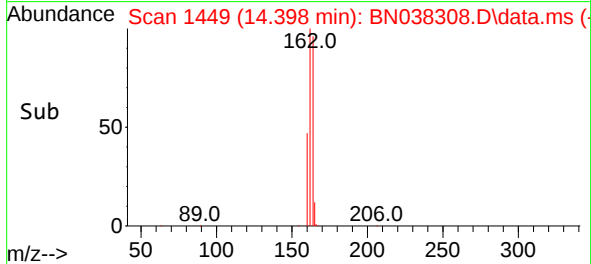
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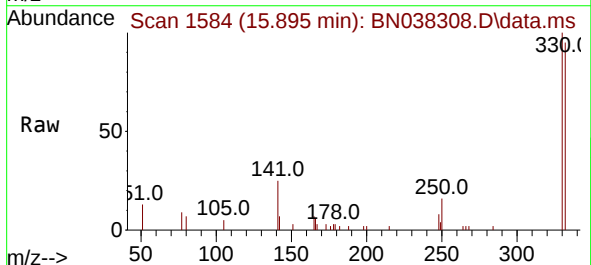
Tgt Ion:164 Resp: 865
Ion Ratio Lower Upper
164 100
162 104.0 86.2 129.4
160 49.1 44.6 67.0

Manual Integrations
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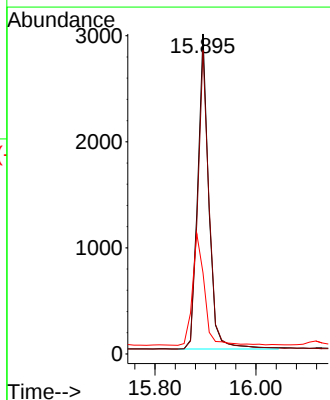
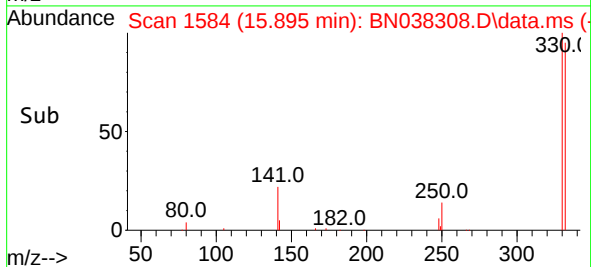
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025

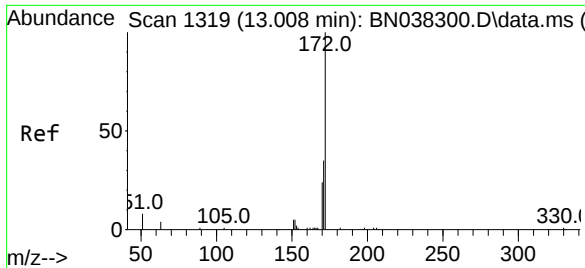


#14
2,4,6-Tribromophenol
Concen: 1.186 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54



Tgt Ion:330 Resp: 4554
Ion Ratio Lower Upper
330 100
332 97.1 75.8 113.6
141 38.1 31.8 47.8





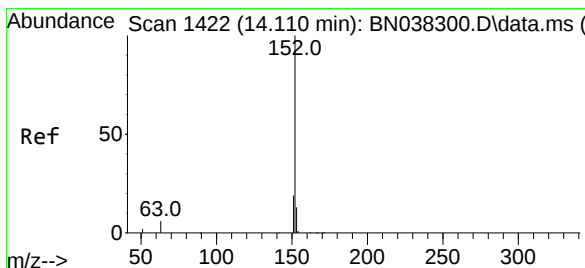
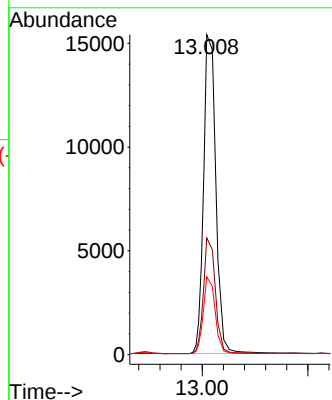
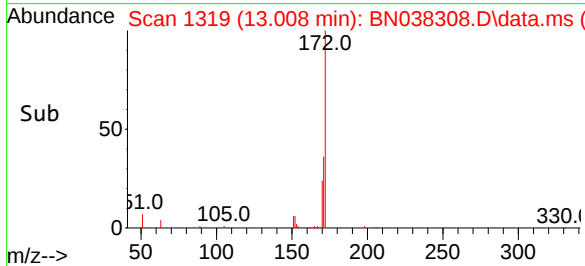
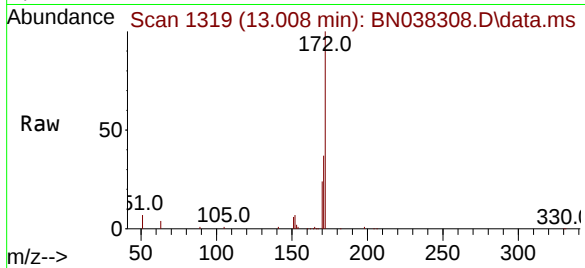
#15
2-Fluorobiphenyl
Concen: 0.607 ng
RT: 13.008 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

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BNA_N
ClientSampleId :
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Tgt Ion:	172	Resp:	2529
Ion Ratio	Lower	Upper	
172	100		
171	36.5	28.6	42.8
170	24.3	19.3	28.9

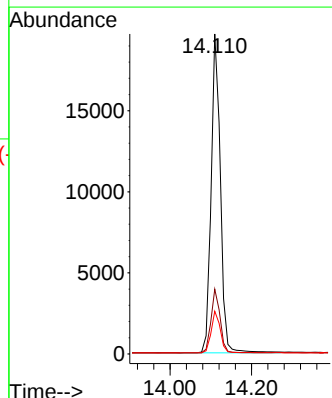
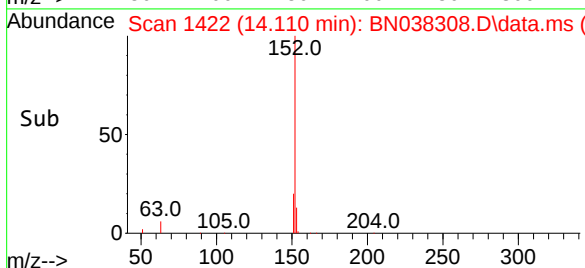
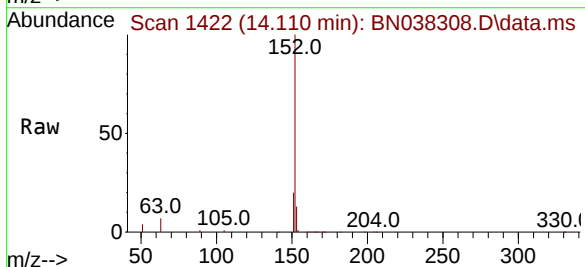
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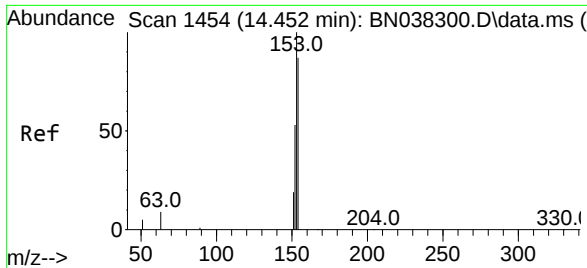
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025



#16
Acenaphthylene
Concen: 0.729 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

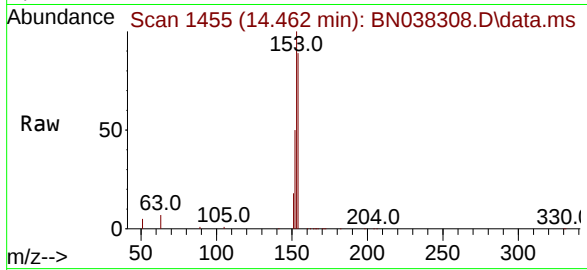
Tgt Ion:	152	Resp:	30976
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.4	23.2
153	12.9	10.2	15.4





#17
Acenaphthene
Concen: 1.070 ng
RT: 14.462 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

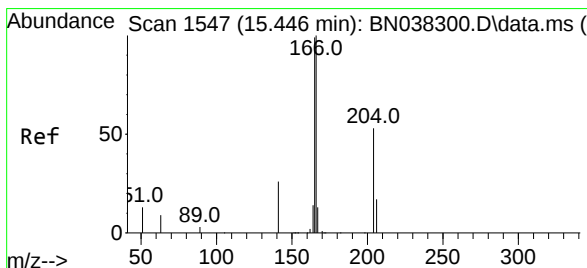
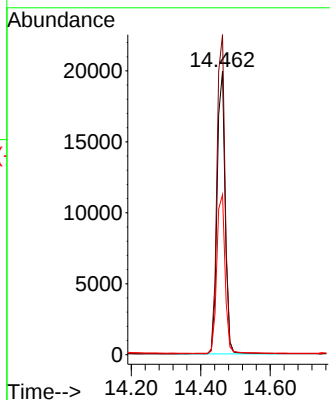
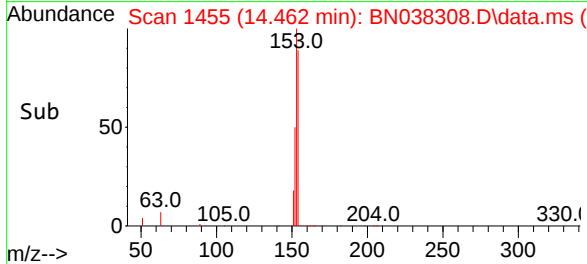
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILDL



Tgt Ion:154 Resp: 3166
Ion Ratio Lower Upper
154 100
153 114.8 89.8 134.8
152 58.5 47.5 71.3

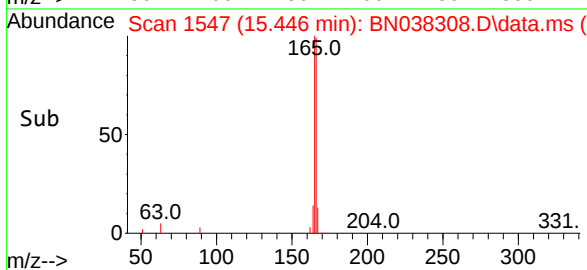
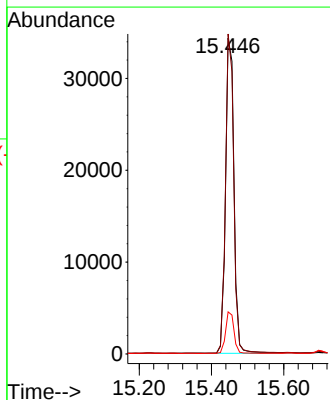
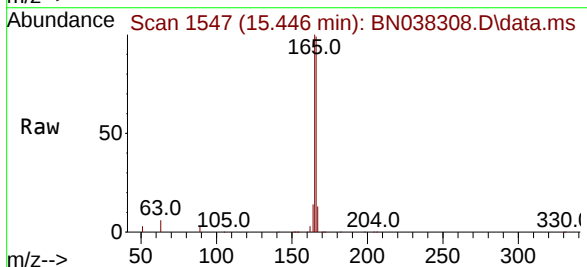
Manual Integrations
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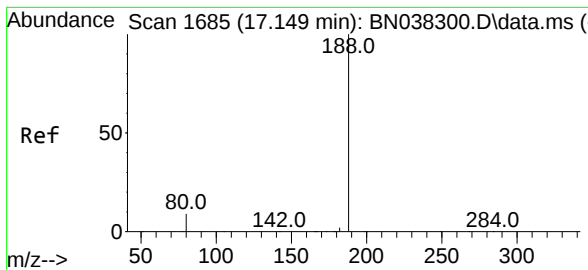
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025



#18
Fluorene
Concen: 1.522 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

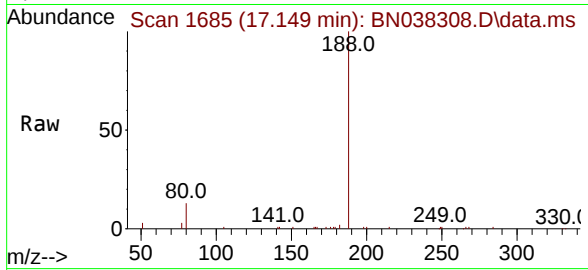
Tgt Ion:166 Resp: 57963
Ion Ratio Lower Upper
166 100
165 100.9 80.2 120.4
167 13.3 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

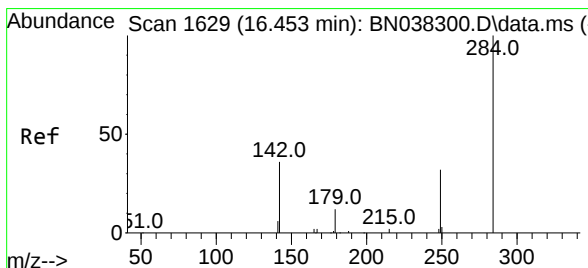
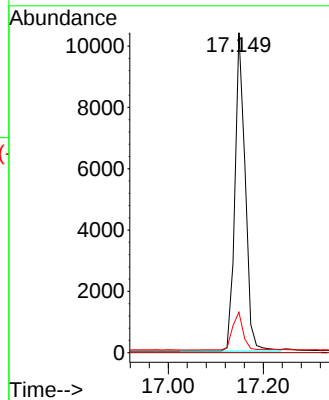
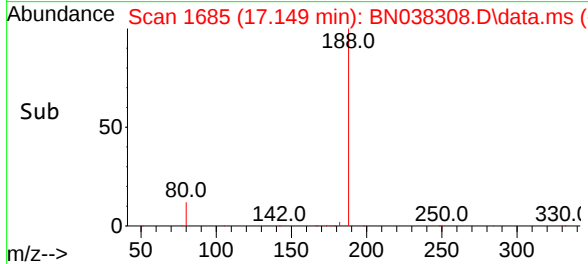
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILD



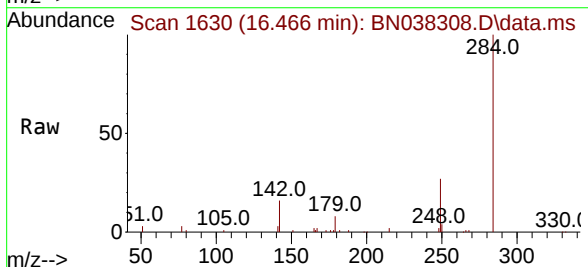
Tgt Ion:188 Resp: 15530
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.7 7.4 11.0

Manual Integrations
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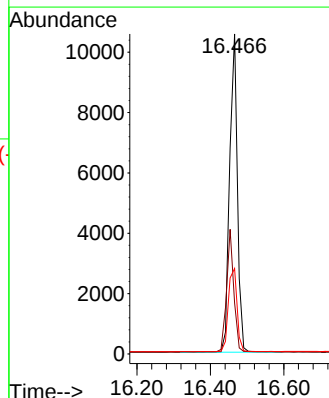
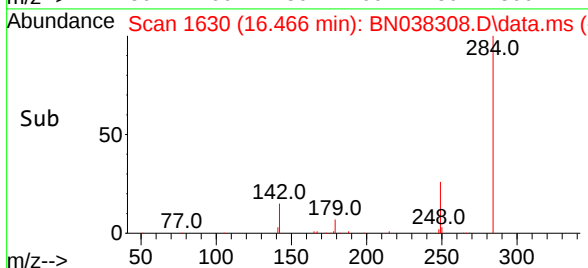
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025

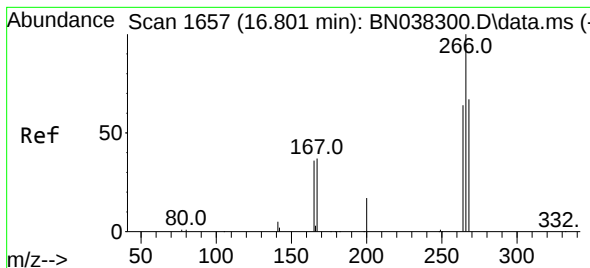


#22
Hexachlorobenzene
Concen: 1.113 ng
RT: 16.466 min Scan# 1630
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54



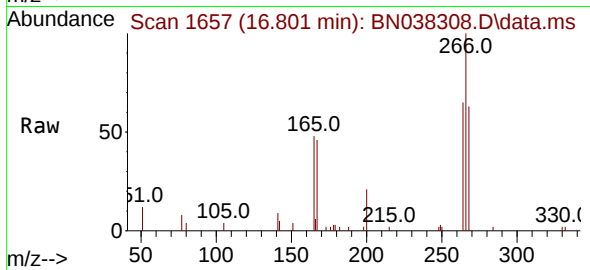
Tgt Ion:284 Resp: 15423
Ion Ratio Lower Upper
284 100
142 35.8 29.5 44.3
249 29.5 23.7 35.5





#24
Pentachlorophenol
Concen: 1.029 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

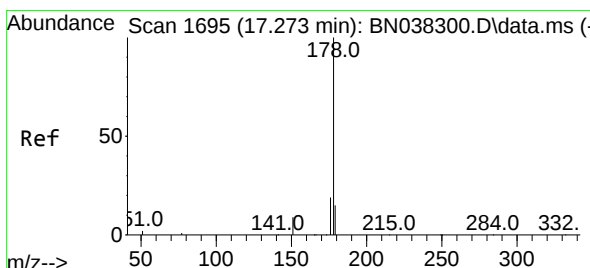
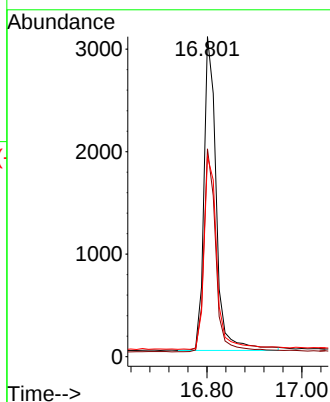
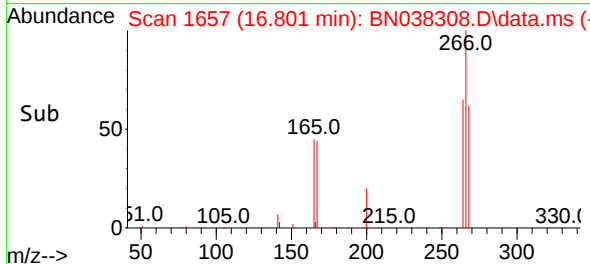
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILD



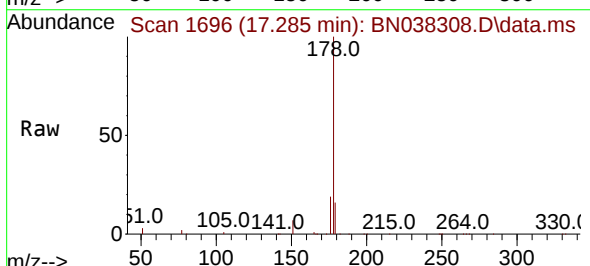
Tgt Ion:266 Resp: 556
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 63.8 52.6 78.8

Manual Integrations
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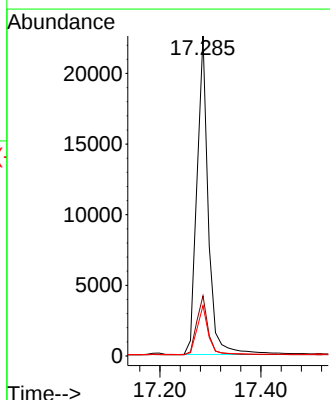
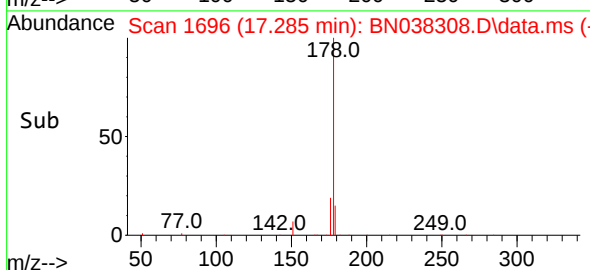
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025

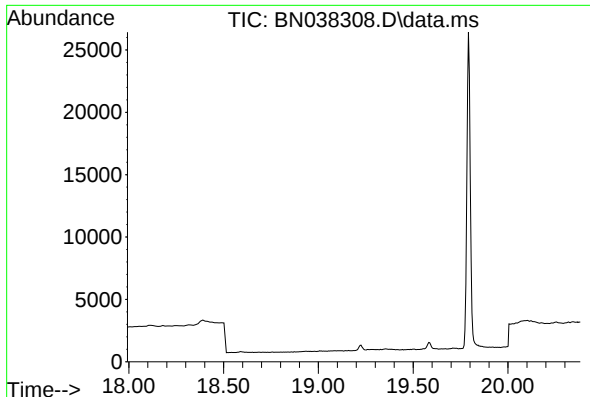


#26
Anthracene
Concen: 0.758 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54



Tgt Ion:178 Resp: 35324
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.1 12.0 18.0





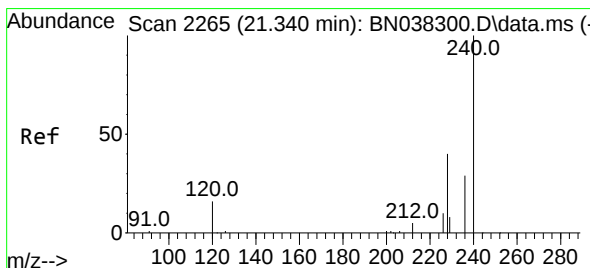
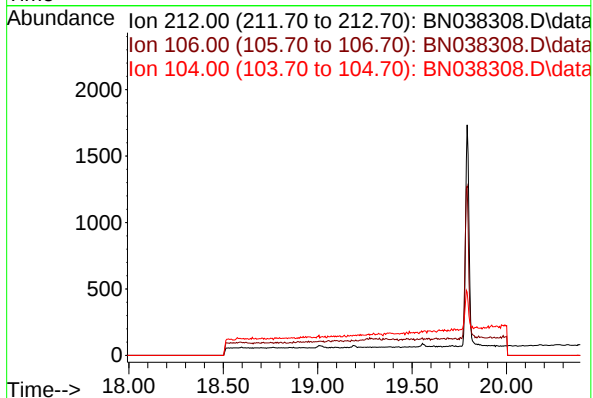
#27
 Fluoranthene-d10
 Concen: 0.000 ng
 Expected RT: 19.19 min
 Lab File: BN038308.D
 Acq: 10 Dec 2025 15:54

Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-BNA-SOILD

Tgt Ion: 212
 Sig Exp Ratio
 212 100
 106 17.1
 104 9.8

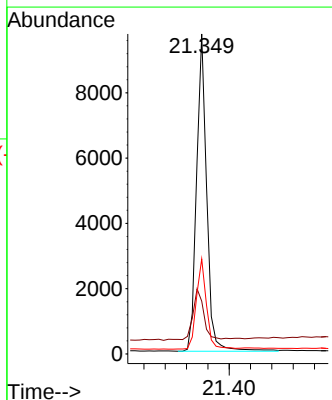
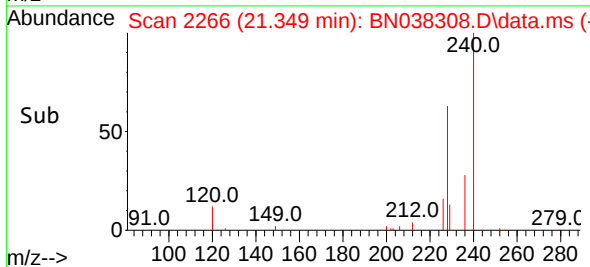
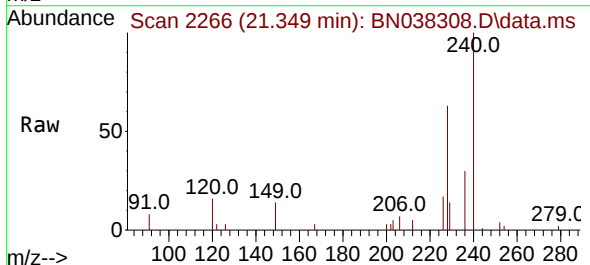
Manual Integrations
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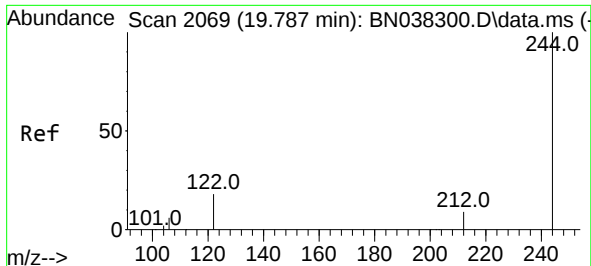
Reviewed By :Yogesh Patel 12/12/2025
 Supervised By :mohammad ahmed 12/13/2025



#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.349 min Scan# 2266
 Delta R.T. 0.009 min
 Lab File: BN038308.D
 Acq: 10 Dec 2025 15:54

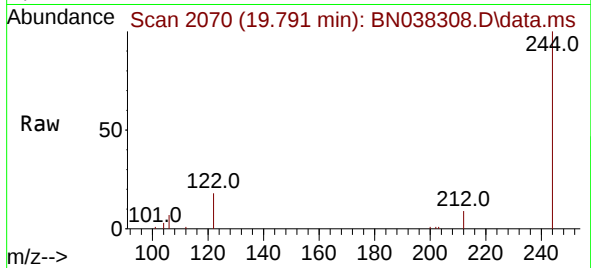
Tgt Ion:240 Resp: 12910
 Ion Ratio Lower Upper
 240 100
 120 16.5 15.4 23.2
 236 29.7 23.9 35.9





#31
Terphenyl-d14
Concen: 0.833 ng
RT: 19.791 min Scan# 2069
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

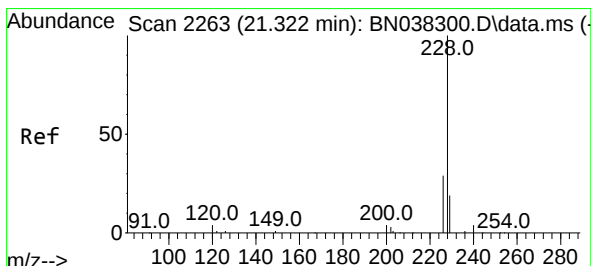
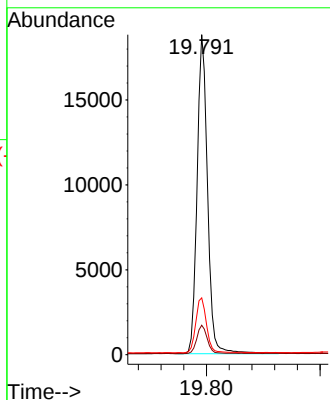
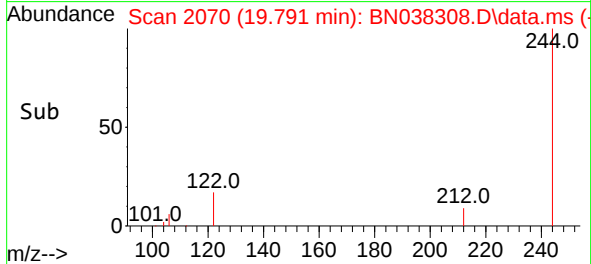
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILD



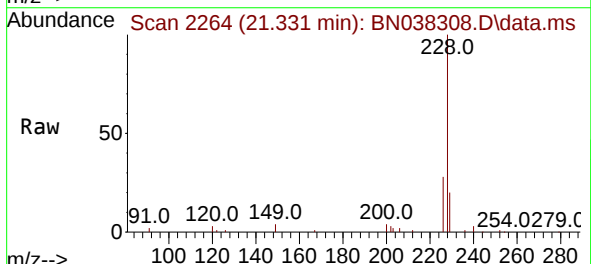
Tgt Ion:244 Resp: 2398
Ion Ratio Lower Upper
244 100
212 9.2 7.9 11.9
122 17.7 15.0 22.6

Manual Integrations
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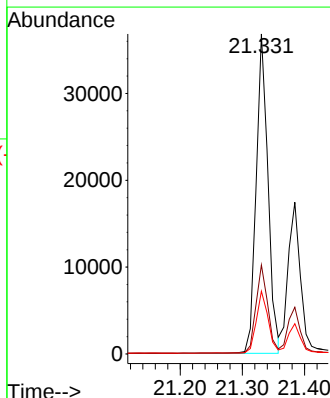
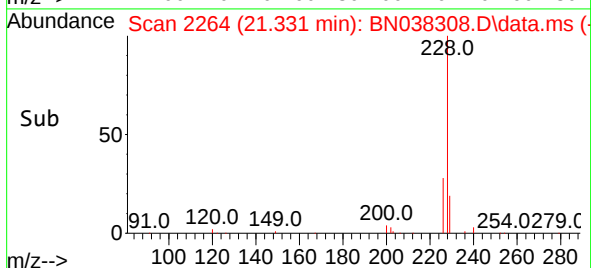
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025

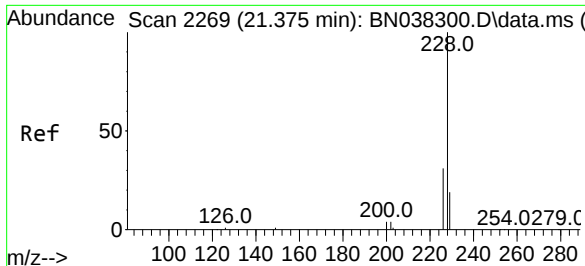


#32
Benzo(a)anthracene
Concen: 0.969 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54



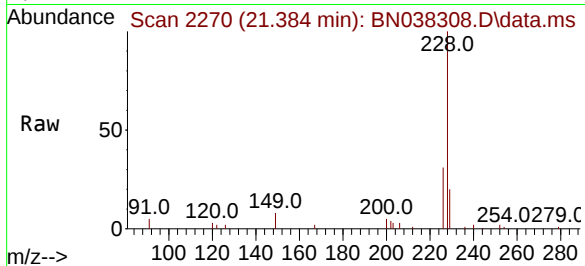
Tgt Ion:228 Resp: 48333
Ion Ratio Lower Upper
228 100
226 27.8 23.3 34.9
229 19.6 15.7 23.5





#33
Chrysene
Concen: 0.452 ng
RT: 21.384 min Scan# 21384
Delta R.T. 0.009 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

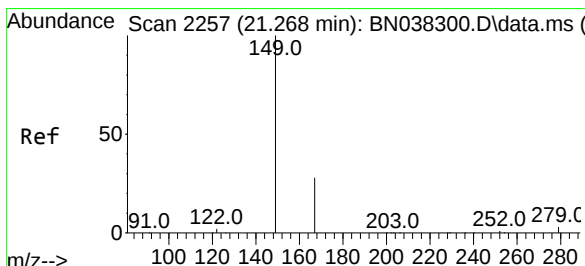
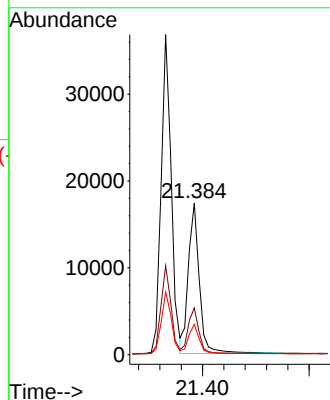
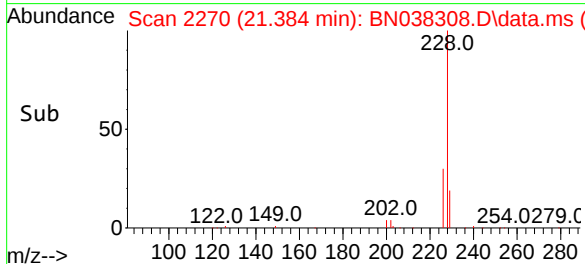
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILD



Tgt Ion:228 Resp: 2484
Ion Ratio Lower Upper
228 100
226 30.8 25.0 37.4
229 20.0 15.5 23.3

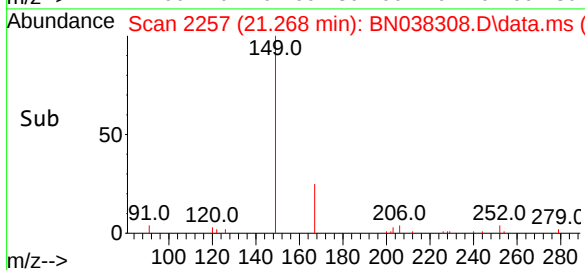
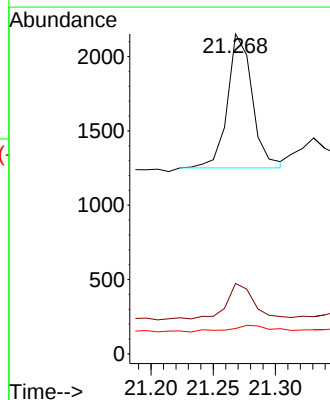
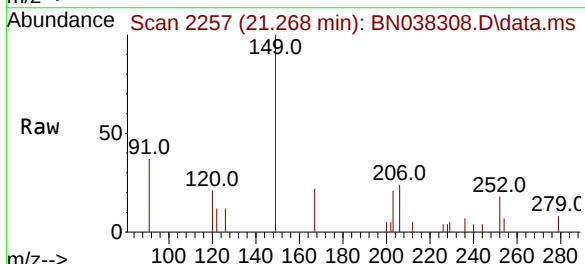
Manual Integrations
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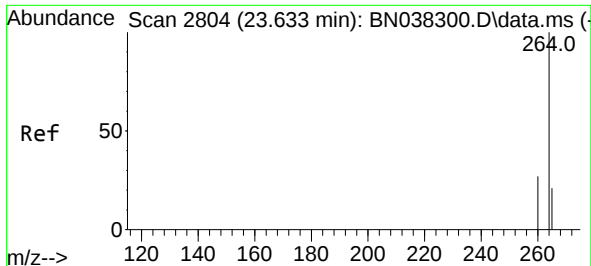
Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.046 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

Tgt Ion:149 Resp: 1251
Ion Ratio Lower Upper
149 100
167 28.5 21.4 32.0
279 9.3 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.642 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038308.D

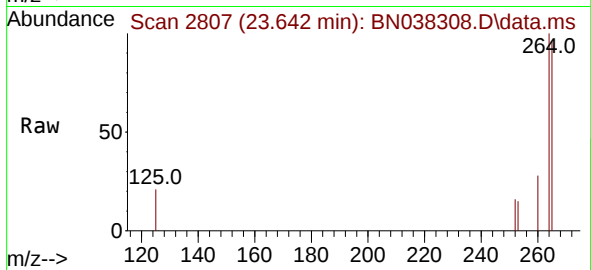
Acq: 10 Dec 2025 15:54

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-BNA-SOILD



Tgt Ion:264 Resp: 1307

Ion Ratio Lower Upper

264 100

260 27.6 22.2 33.2

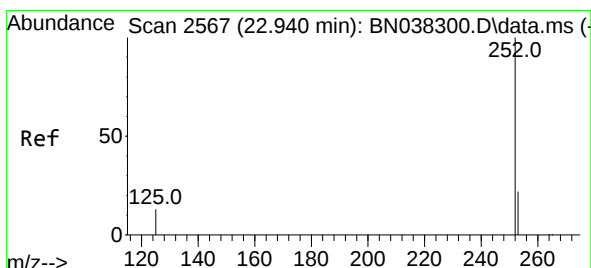
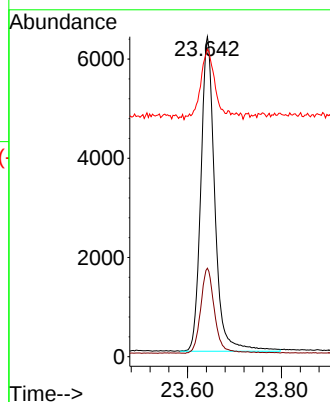
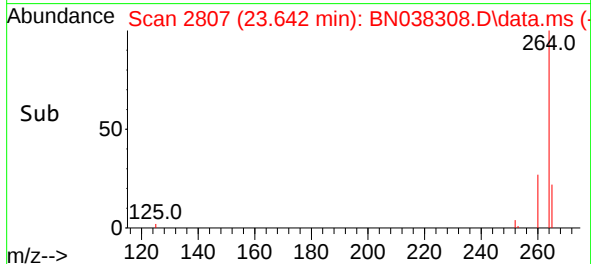
265 96.1 80.2 120.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/12/2025

Supervised By :mohammad ahmed 12/13/2025



#37

Benzo(b)fluoranthene

Concen: 0.487 ng

RT: 22.949 min Scan# 2570

Delta R.T. 0.003 min

Lab File: BN038308.D

Acq: 10 Dec 2025 15:54

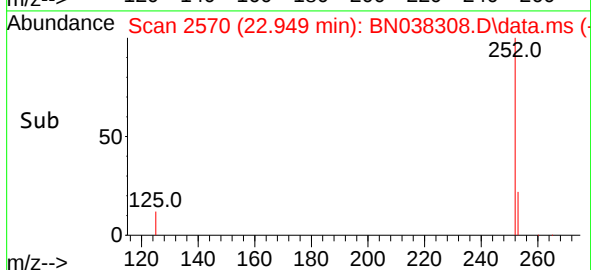
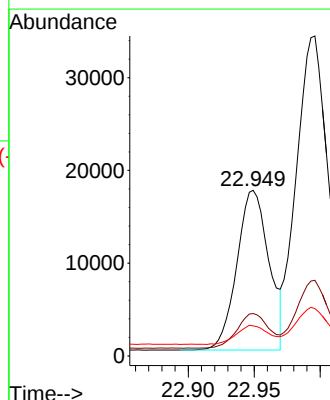
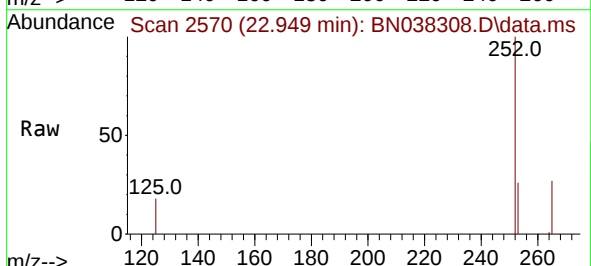
Tgt Ion:252 Resp: 29224

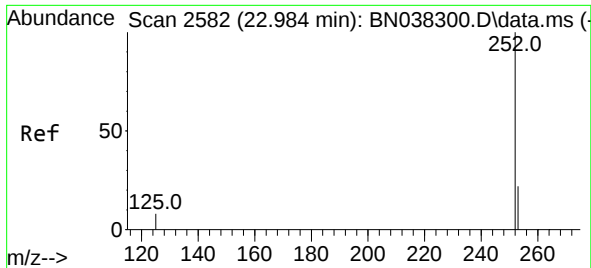
Ion Ratio Lower Upper

252 100

253 25.6 21.1 31.7

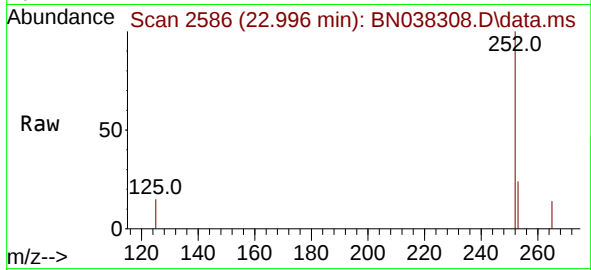
125 18.2 16.4 24.6





#38
Benzo(k)fluoranthene
Concen: 1.004 ng m
RT: 22.996 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

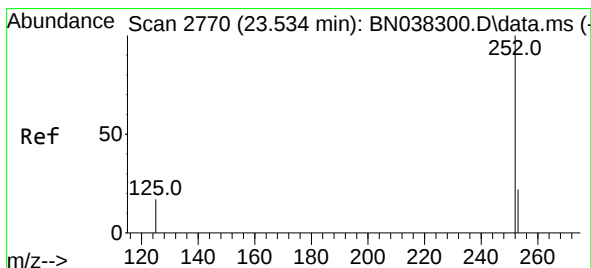
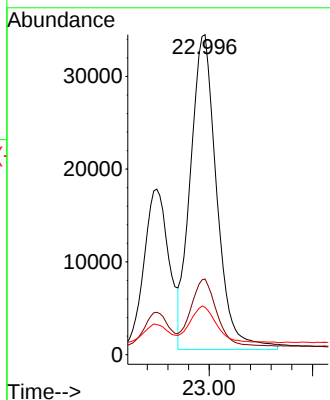
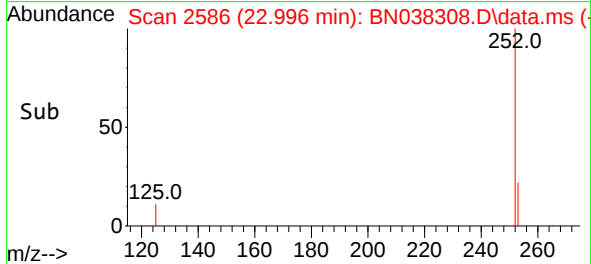
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-BNA-SOILD



Tgt Ion:252 Resp: 60104
Ion Ratio Lower Upper
252 100
253 23.7 21.4 32.0
125 14.8 16.2 24.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/12/2025
Supervised By :mohammad ahmed 12/13/2025



#39
Benzo(a)pyrene
Concen: 1.023 ng
RT: 23.540 min Scan# 2772
Delta R.T. 0.006 min
Lab File: BN038308.D
Acq: 10 Dec 2025 15:54

Tgt Ion:252 Resp: 50254
Ion Ratio Lower Upper
252 100
253 24.4 23.3 34.9
125 17.8 22.4 33.6

