

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110724\
 Data File : BE101534.D
 Acq On : 7 Nov 2024 16:54
 Operator : RC/JU
 Sample : P4711-06DL 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 CF-613-COMP-17DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 07 16:58:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 00:01:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	65686	20.000	ng	0.00
21) Naphthalene-d8	10.326	136	304849	20.000	ng	0.00
39) Acenaphthene-d10	14.169	164	203453	20.000	ng	0.00
64) Phenanthrene-d10	16.907	188	447469	20.000	ng	0.00
76) Chrysene-d12	21.072	240	473017	20.000	ng	0.00
86) Perylene-d12	23.358	264	620522	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.314	112	50699	13.647	ng	0.00
7) Phenol-d6	6.942	99	66968	13.148	ng	0.00
23) Nitrobenzene-d5	8.769	82	39264	8.136	ng	0.00
42) 2,4,6-Tribromophenol	15.679	330	47113	12.306	ng	0.00
45) 2-Fluorobiphenyl	12.788	172	117782	9.453	ng	-0.01
79) Terphenyl-d14	19.498	244	235065	11.000	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	13.904	152	47345	2.870	ng	99
52) Acenaphthene	14.233	154	45636	4.336	ng	98
55) Dibenzofuran	14.574	168	46388	2.737	ng	98
58) Fluorene	15.214	166	82369	5.823	ng	95
71) Phenanthrene	16.953	178	1243943	57.157	ng	100
72) Anthracene	17.036	178	350066	16.288	ng	98
73) Carbazole	17.365	167	44354	2.058	ng	98
75) Fluoranthene	18.963	202	2080746	74.568	ng	98
78) Pyrene	19.327	202	1787674	66.422	ng	98
81) Benzo(a)anthracene	21.055	228	1125386	40.060	ng	100
83) Chrysene	21.107	228	955066	35.767	ng	98
87) Indeno(1,2,3-cd)pyrene	25.679	276	751130	17.615	ng	97
88) Benzo(b)fluoranthene	22.653	252	1245683	36.590	ng	98
89) Benzo(k)fluoranthene	22.688	252	657408m	21.272	ng	
90) Benzo(a)pyrene	23.252	252	1037703	35.306	ng	99
91) Dibenzo(a,h)anthracene	25.661	278	190450m	5.363	ng	
92) Benzo(g,h,i)perylene	26.431	276	702021	19.457	ng	97

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

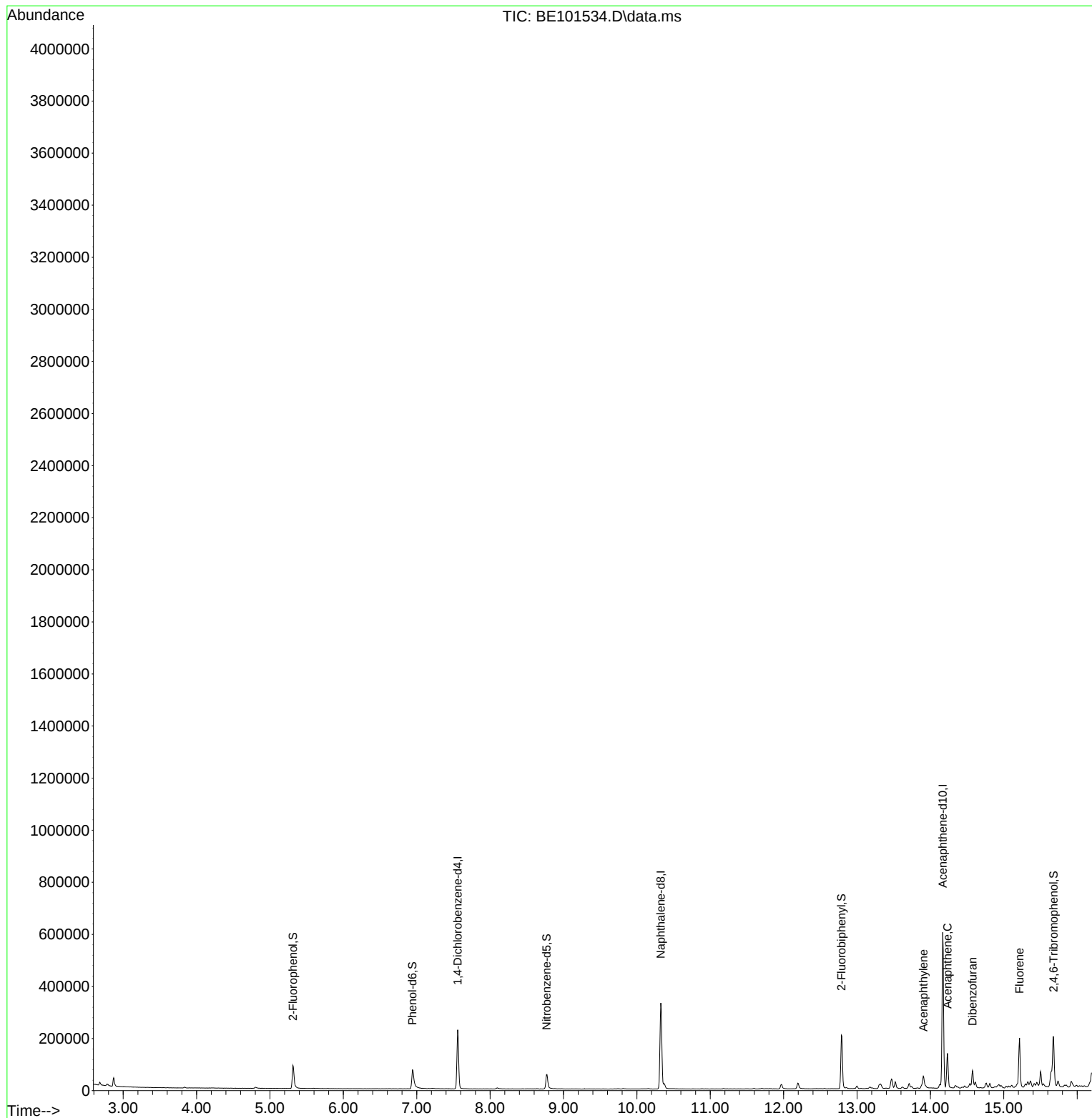
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110724\
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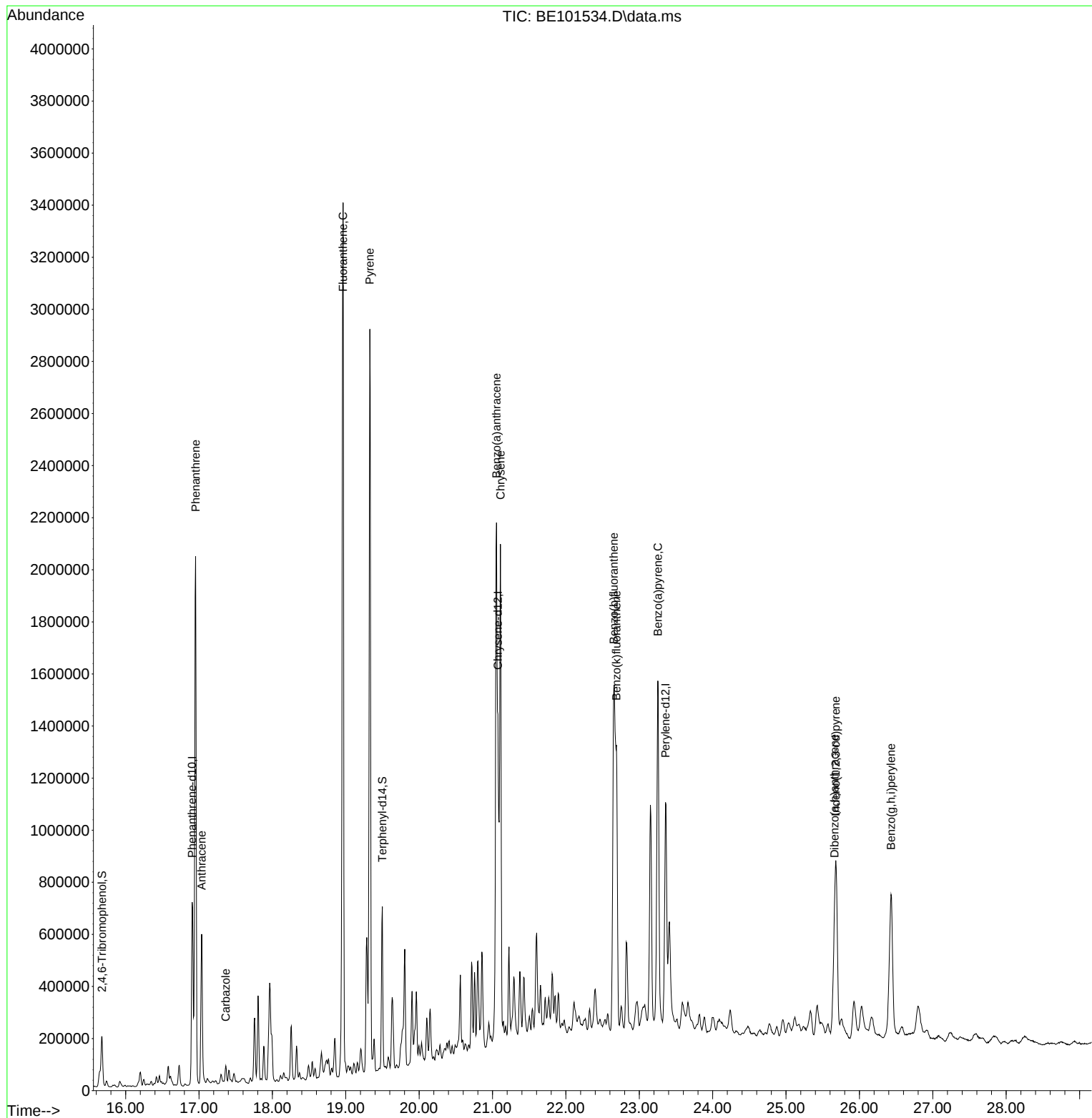
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Misc :
ALS Vial : 12 Sample Multiplier: 1

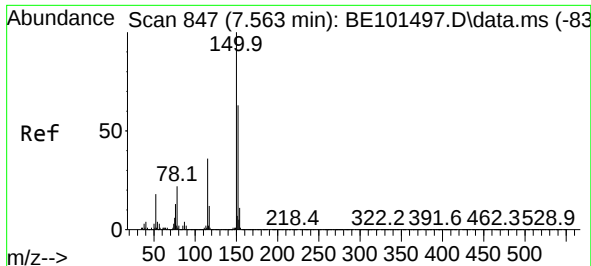
Instrument :
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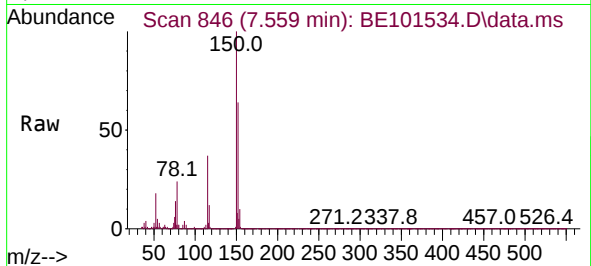
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Supervised By :mohammad ahmed 11/08/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.559 min Scan# 847
Delta R.T. -0.004 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

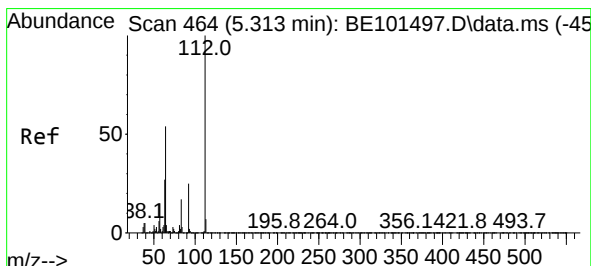
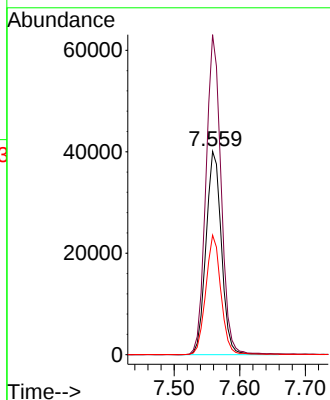
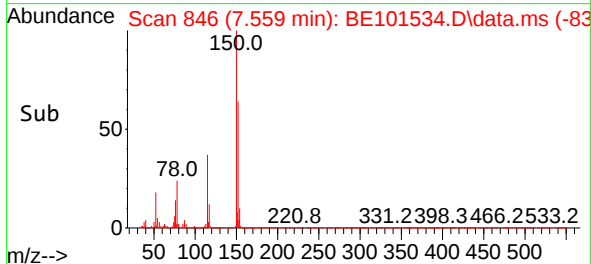
Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL



Tgt Ion:152 Resp: 65680
Ion Ratio Lower Upper
152 100
150 157.3 126.3 189.5
115 58.8 45.0 67.4

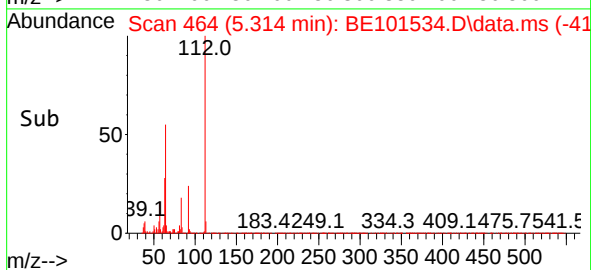
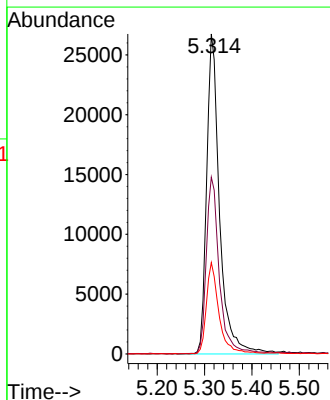
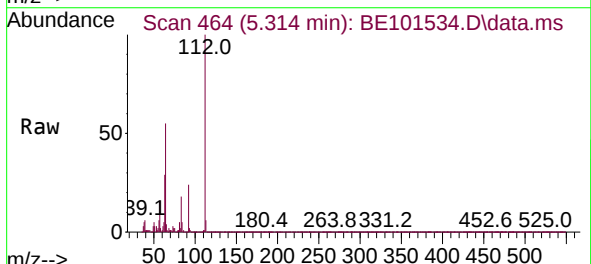
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#5
2-Fluorophenol
Concen: 13.647 ng
RT: 5.314 min Scan# 464
Delta R.T. 0.001 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:112 Resp: 50699
Ion Ratio Lower Upper
112 100
64 55.3 43.2 64.8
63 28.5 21.8 32.6





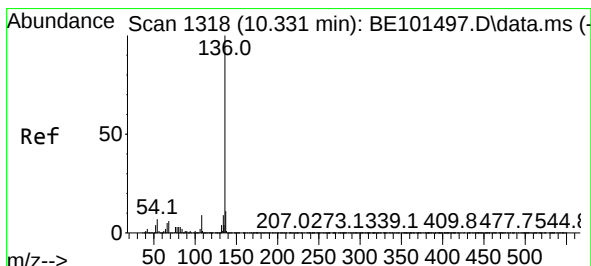
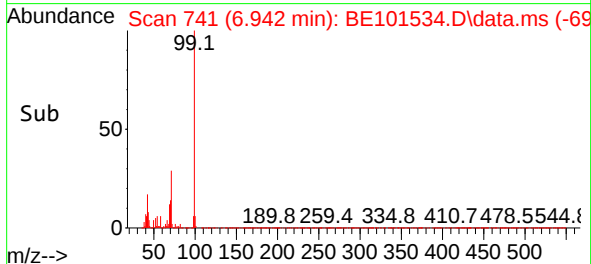
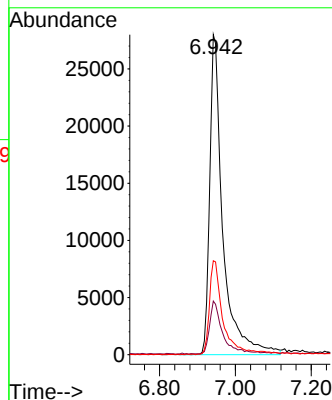
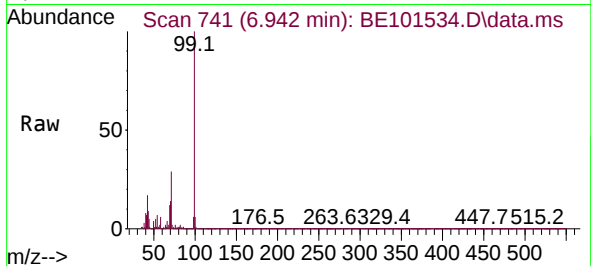
#7
Phenol-d6
Concen: 13.148 ng
RT: 6.942 min Scan# 741
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL

Tgt Ion: 99 Resp: 66968
Ion Ratio Lower Upper
99 100
42 16.8 12.5 18.7
71 29.4 24.2 36.2

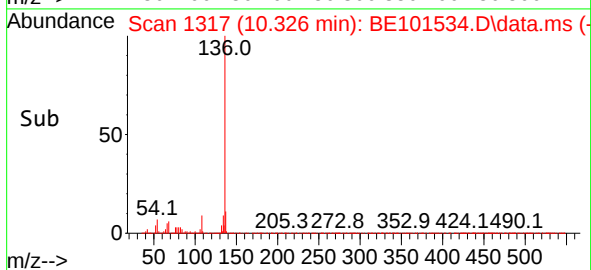
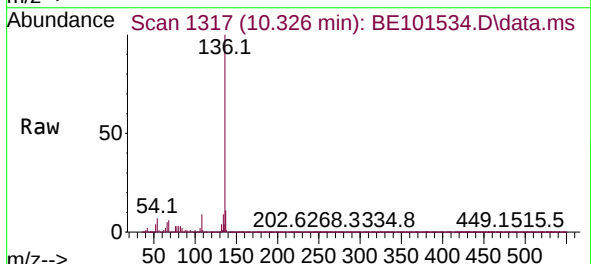
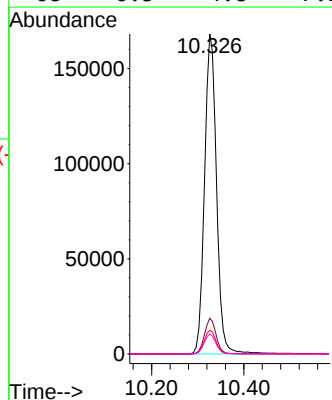
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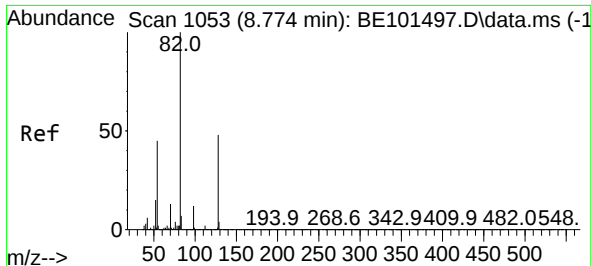
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Supervised By :mohammad ahmed 11/08/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.326 min Scan# 1317
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:136 Resp: 304849
Ion Ratio Lower Upper
136 100
137 11.2 8.6 13.0
54 7.4 5.6 8.4
68 6.3 4.8 7.2





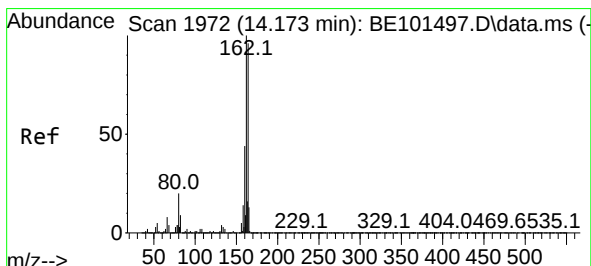
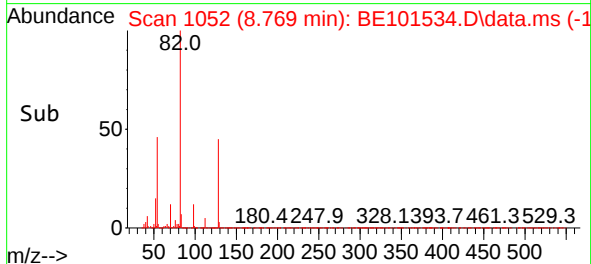
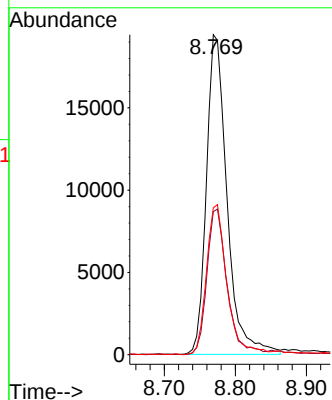
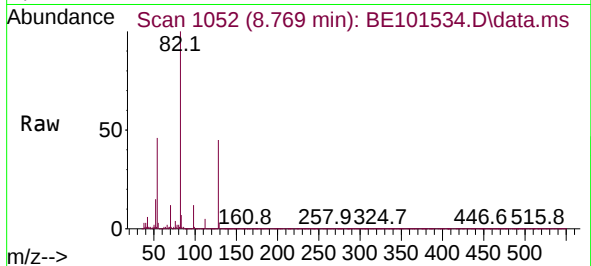
#23
Nitrobenzene-d5
Concen: 8.136 ng
RT: 8.769 min Scan# 1052
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL

Tgt Ion: 82 Resp: 39264
Ion Ratio Lower Upper
82 100
128 44.7 38.6 58.0
54 45.9 36.3 54.5

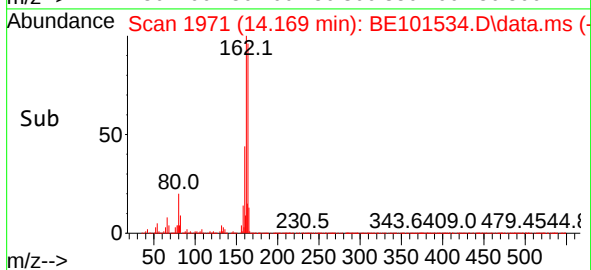
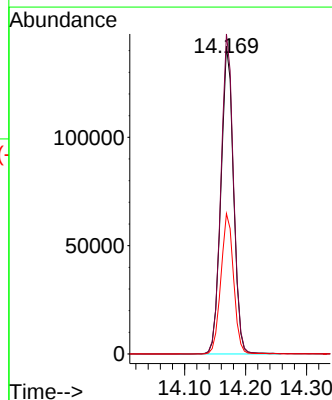
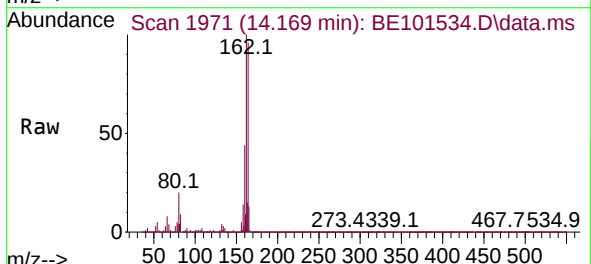
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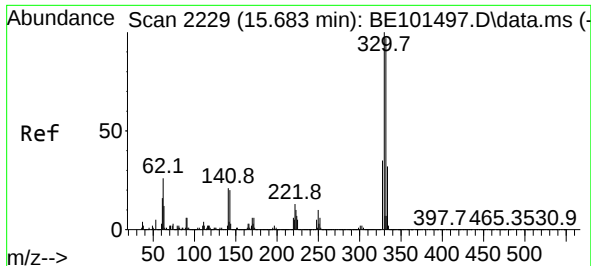
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Supervised By :mohammad ahmed 11/08/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.169 min Scan# 1971
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:164 Resp: 203453
Ion Ratio Lower Upper
164 100
162 104.1 83.7 125.5
160 45.6 37.1 55.7





#42
2,4,6-Tribromophenol
Concen: 12.306 ng
RT: 15.679 min Scan# 211
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Instrument :

BNA_E

ClientSampleId :

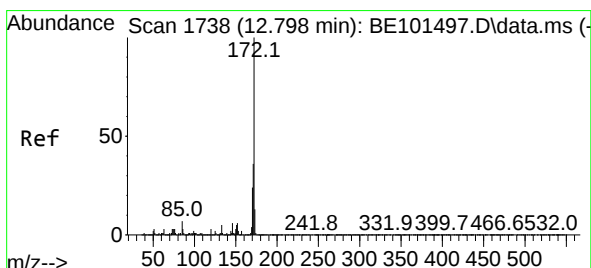
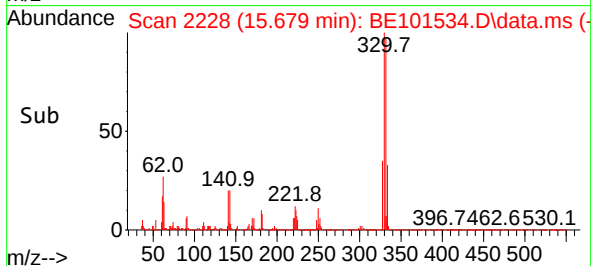
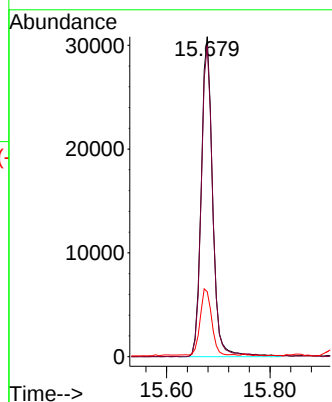
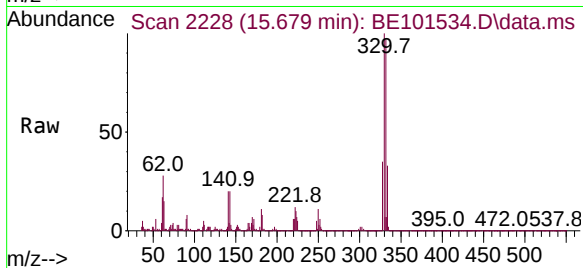
CF-613-COMP-17DL

Tgt Ion:330 Resp: 4711
Ion Ratio Lower Upper
330 100
332 97.1 77.7 116.5
141 20.7 17.0 25.4

Manual Integrations

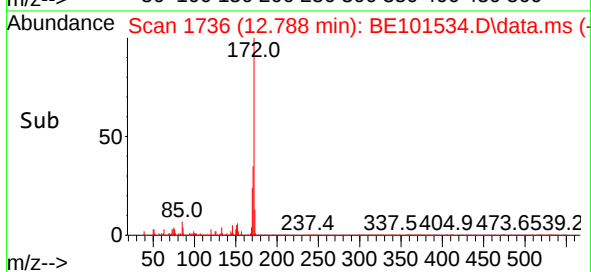
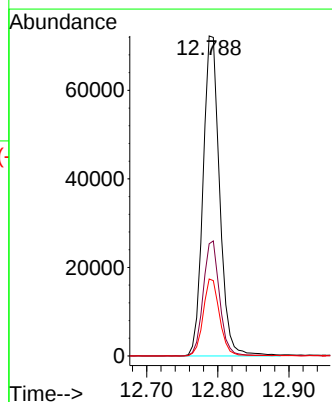
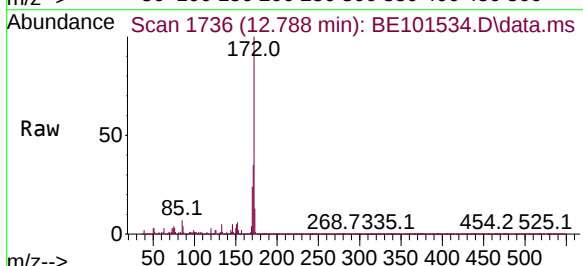
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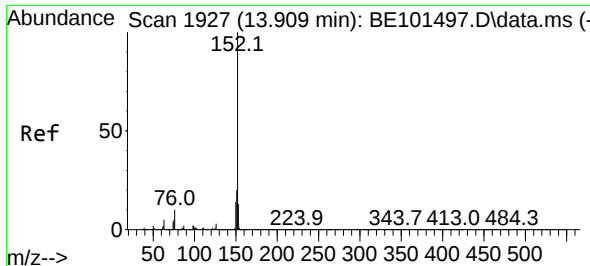
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#45
2-Fluorobiphenyl
Concen: 9.453 ng
RT: 12.788 min Scan# 1736
Delta R.T. -0.011 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:172 Resp: 117782
Ion Ratio Lower Upper
172 100
171 35.1 28.6 43.0
170 24.0 18.9 28.3





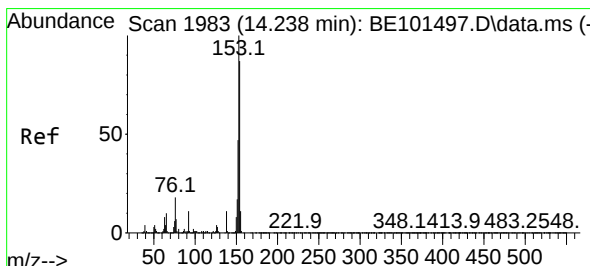
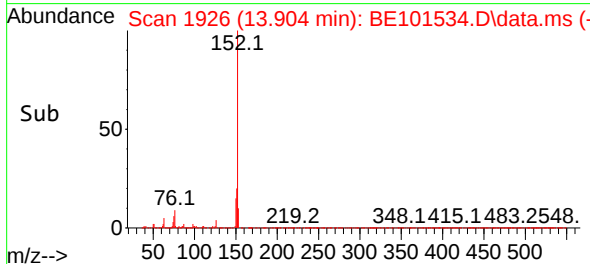
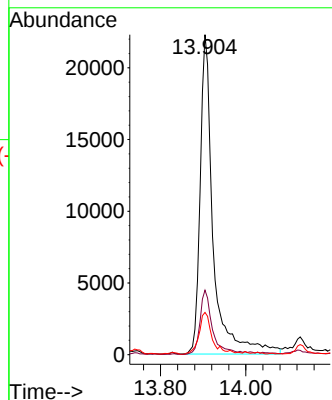
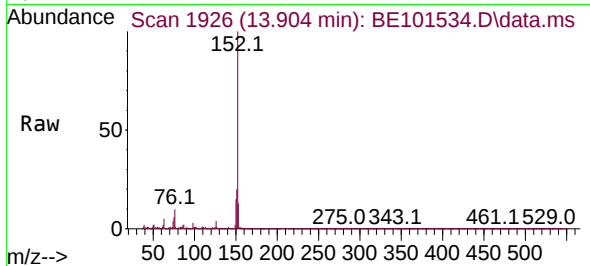
#49
Acenaphthylene
Concen: 2.870 ng
RT: 13.904 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL

Tgt Ion:152 Resp: 4734
Ion Ratio Lower Upper
152 100
151 20.1 15.6 23.4
153 13.2 10.3 15.5

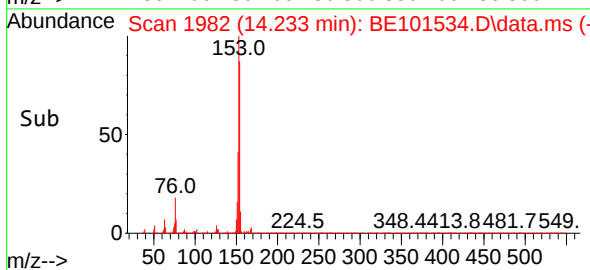
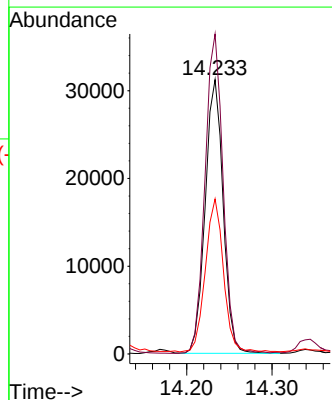
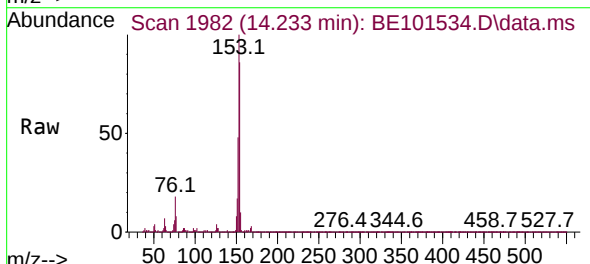
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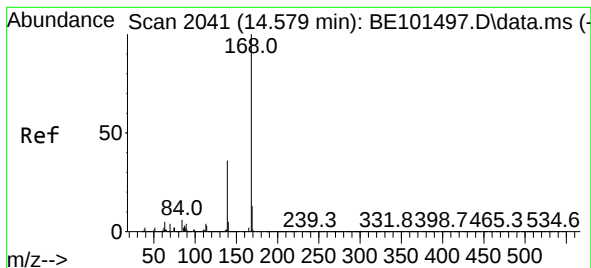
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#52
Acenaphthene
Concen: 4.336 ng
RT: 14.233 min Scan# 1982
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:154 Resp: 45636
Ion Ratio Lower Upper
154 100
153 116.6 92.3 138.5
152 56.5 43.6 65.4





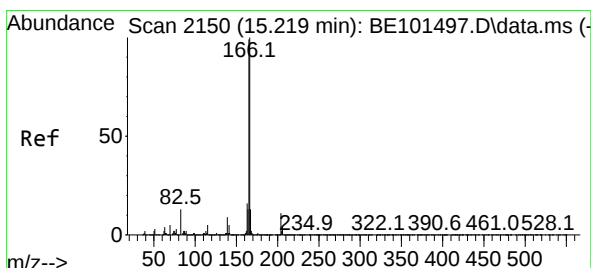
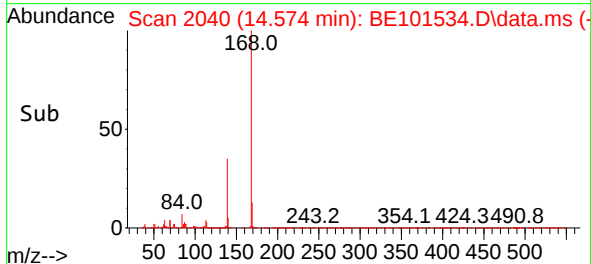
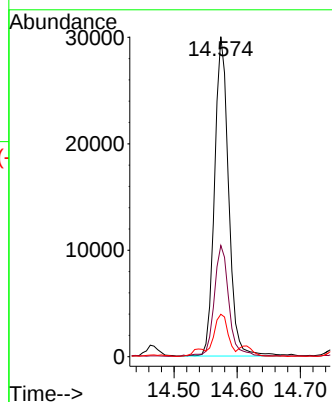
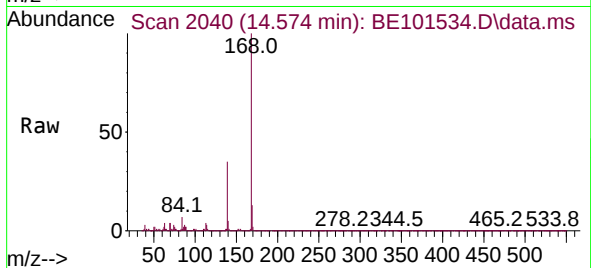
#55
Dibenzenofuran
Concen: 2.737 ng
RT: 14.574 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL

Tgt Ion:168 Resp: 46388
Ion Ratio Lower Upper
168 100
139 34.8 29.1 43.7
169 13.3 10.6 16.0

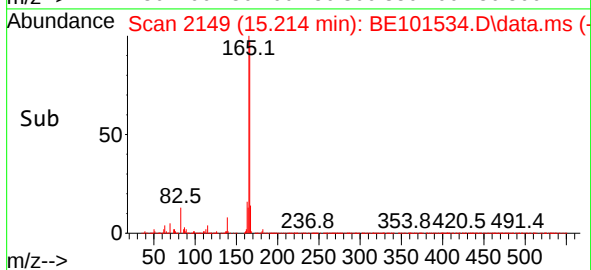
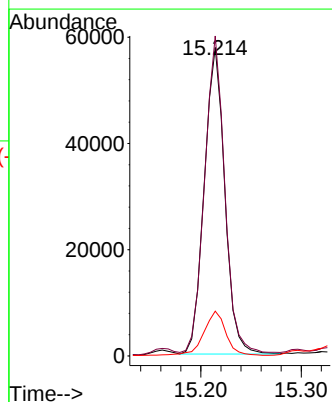
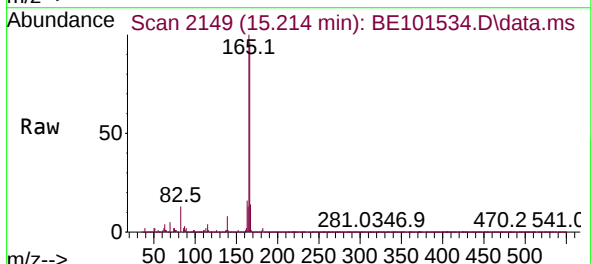
Manual Integrations
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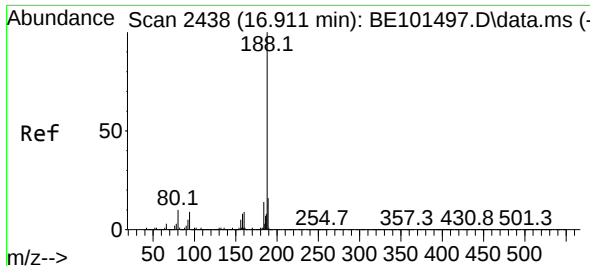
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#58
Fluorene
Concen: 5.823 ng
RT: 15.214 min Scan# 2149
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:166 Resp: 82369
Ion Ratio Lower Upper
166 100
165 103.7 79.0 118.4
167 14.5 10.6 16.0





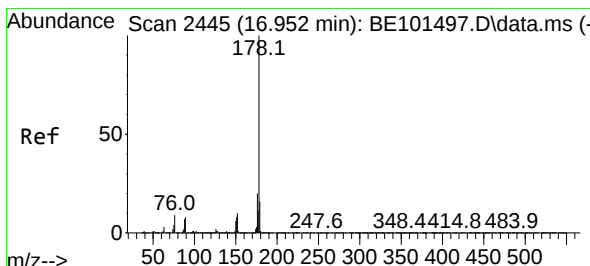
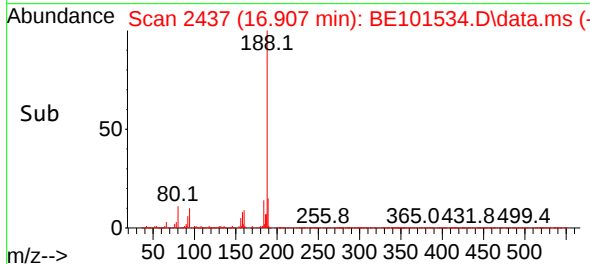
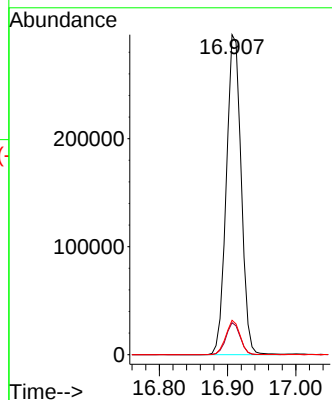
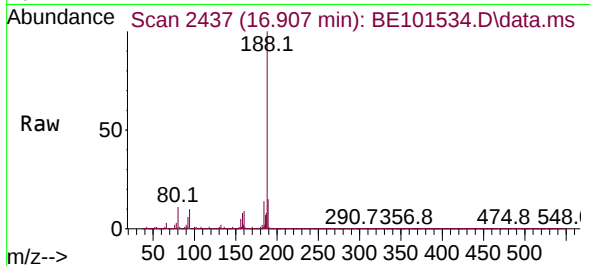
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Phenanthrene-d10
Concen: 20.000 ng
RT: 16.907 min Scan# 2438
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL

Tgt Ion:188 Resp: 447469
Ion Ratio Lower Upper
188 100
94 10.0 7.4 11.2
80 10.8 8.0 12.0

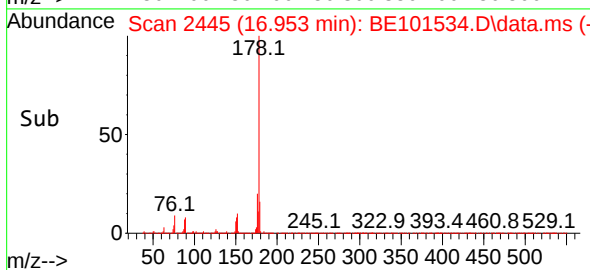
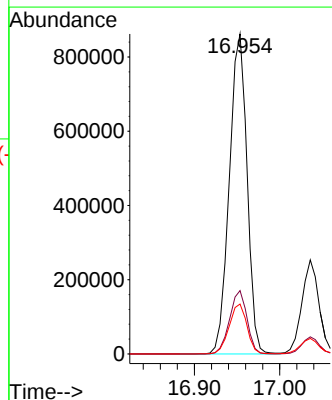
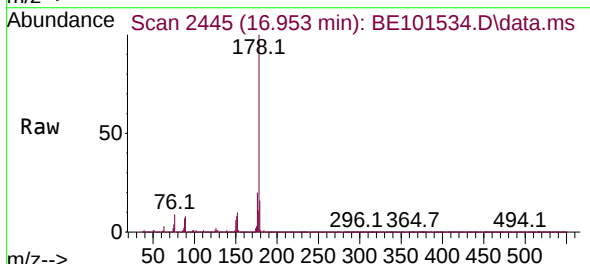
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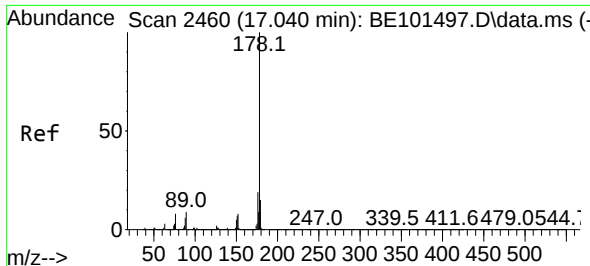
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#71
Phenanthrene
Concen: 57.157 ng
RT: 16.953 min Scan# 2445
Delta R.T. 0.001 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

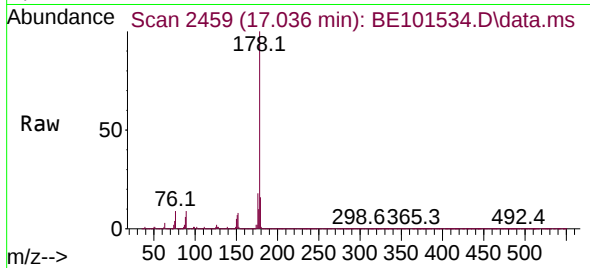
Tgt Ion:178 Resp: 1243943
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 15.6 12.6 19.0





#72
 Anthracene
 Concen: 16.288 ng
 RT: 17.036 min Scan# 2460
 Delta R.T. -0.005 min
 Lab File: BE101534.D
 Acq: 7 Nov 2024 16:54

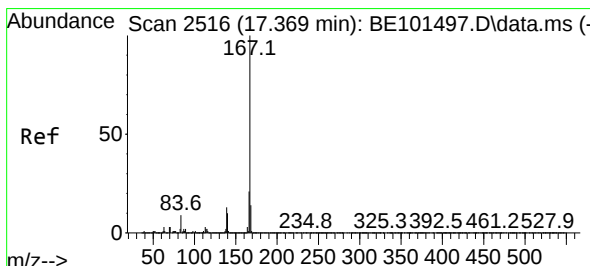
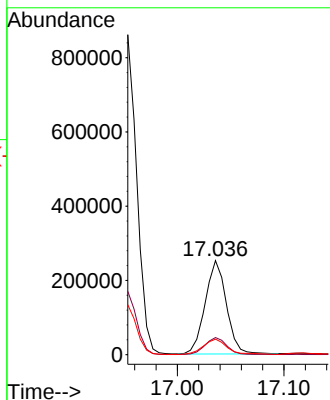
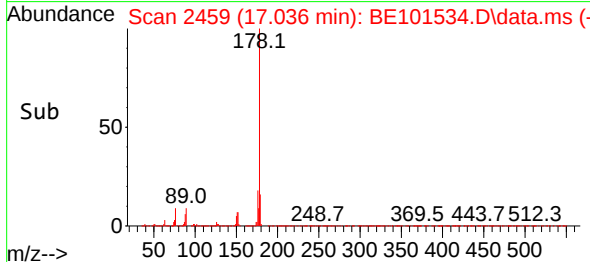
Instrument :
 BNA_E
 ClientSampleId :
 CF-613-COMP-17DL



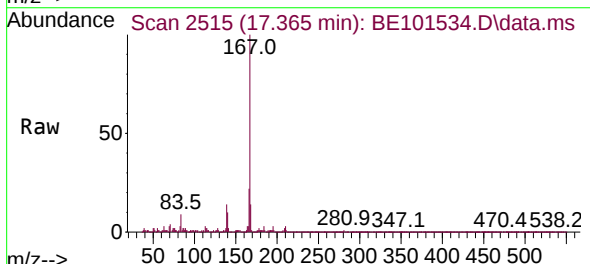
Tgt Ion:178 Resp: 350060
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.1 22.7
 179 16.5 12.4 18.6

Manual Integrations
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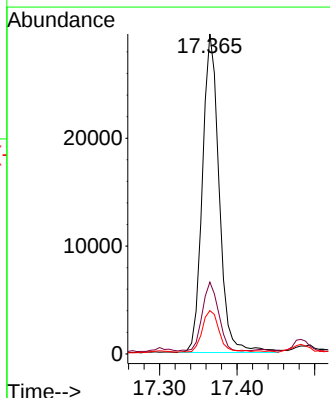
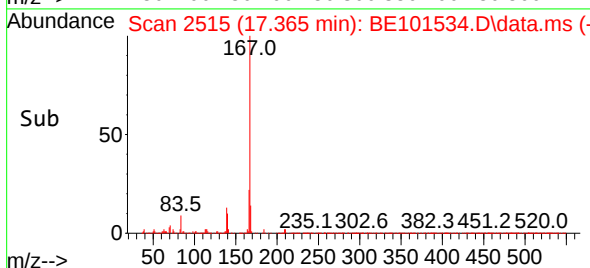
Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/08/2024

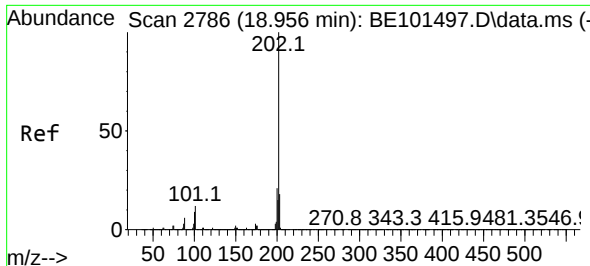


#73
 Carbazole
 Concen: 2.058 ng
 RT: 17.365 min Scan# 2515
 Delta R.T. -0.005 min
 Lab File: BE101534.D
 Acq: 7 Nov 2024 16:54



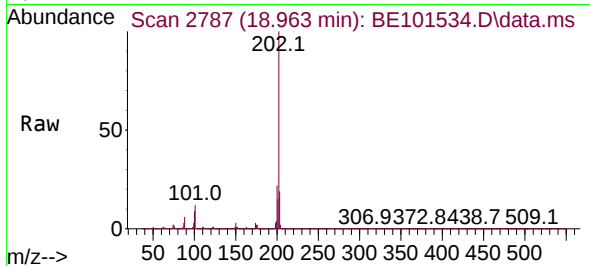
Tgt Ion:167 Resp: 44354
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.1 25.7
 139 13.6 10.2 15.2





#75
Fluoranthene
Concen: 74.568 ng
RT: 18.963 min Scan# 21
Delta R.T. 0.007 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

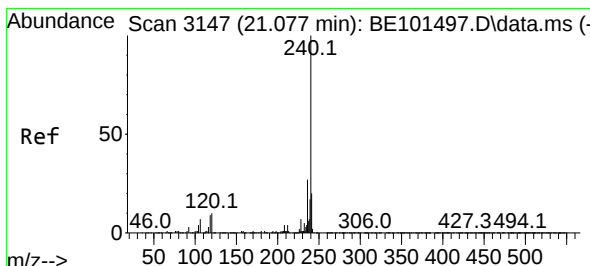
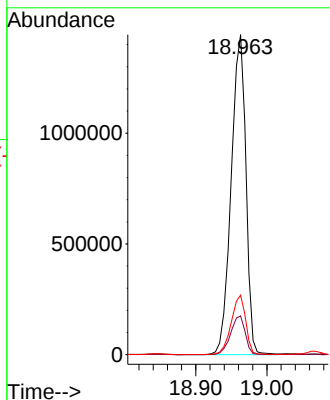
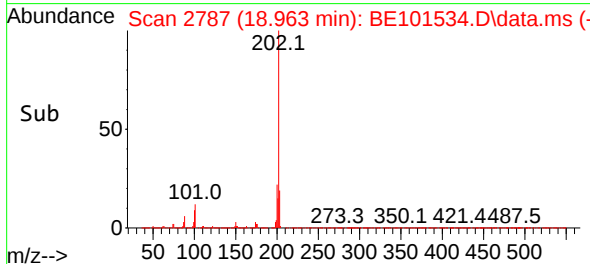
Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL



Tgt Ion:202 Resp: 2080740
Ion Ratio Lower Upper
202 100
101 12.1 0.0 31.7
203 18.6 0.0 37.8

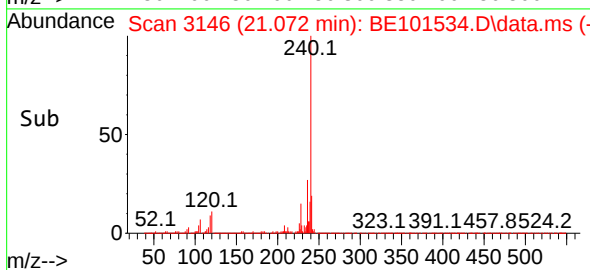
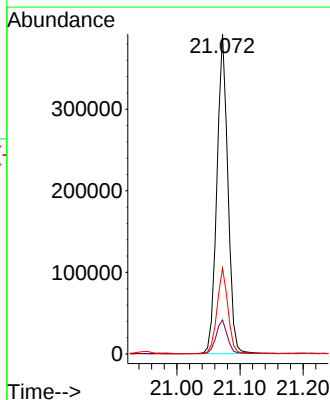
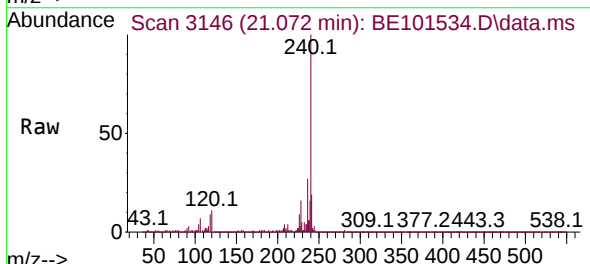
Manual Integrations
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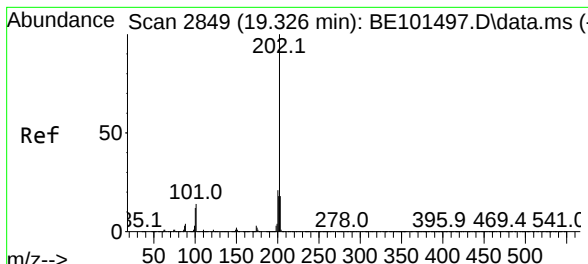
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.072 min Scan# 3146
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:240 Resp: 473017
Ion Ratio Lower Upper
240 100
120 10.7 8.2 12.4
236 26.8 21.4 32.2





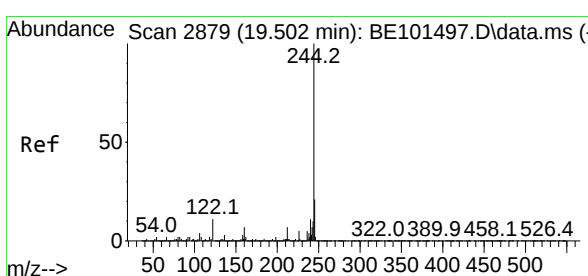
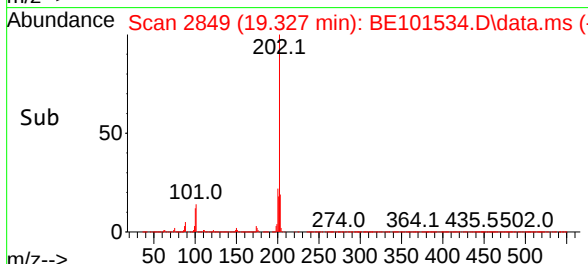
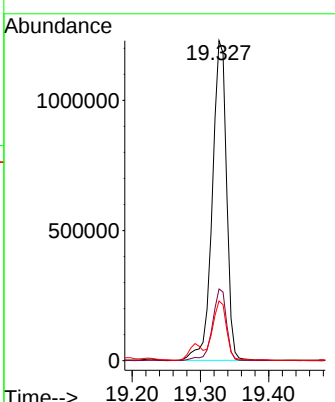
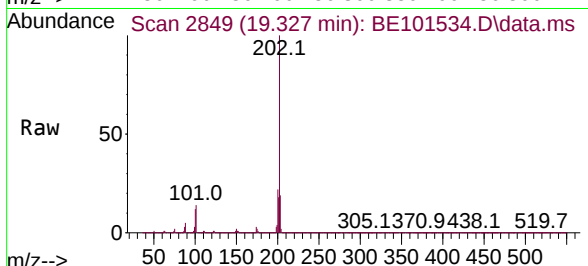
#78
 Pyrene
 Concen: 66.422 ng
 RT: 19.327 min Scan# 2849
 Delta R.T. 0.001 min
 Lab File: BE101534.D
 Acq: 7 Nov 2024 16:54

Instrument : BNA_E
 ClientSampleId : CF-613-COMP-17DL

Tgt Ion: 202 Resp: 1787674

Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.2	25.8
203	18.6	14.2	21.4

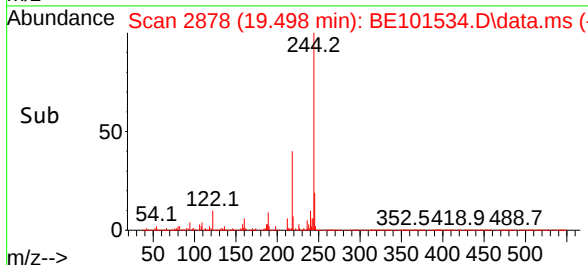
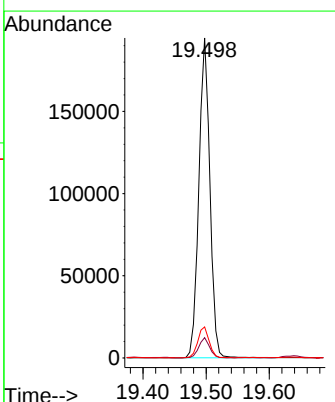
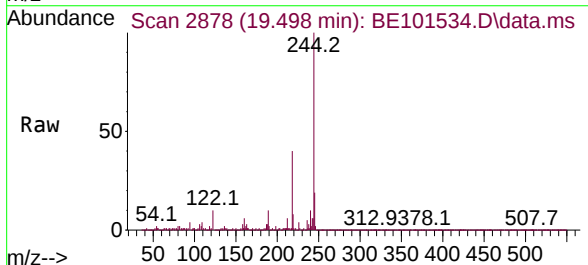
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 Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/08/2024

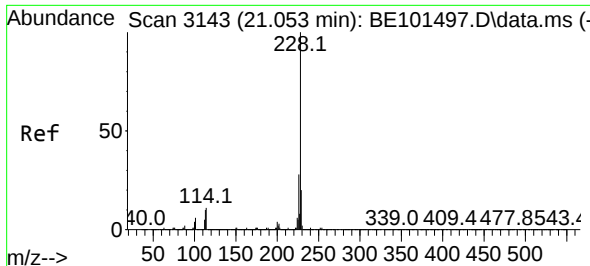


#79
 Terphenyl-d14
 Concen: 11.000 ng
 RT: 19.498 min Scan# 2878
 Delta R.T. -0.005 min
 Lab File: BE101534.D
 Acq: 7 Nov 2024 16:54

Tgt Ion: 244 Resp: 235065

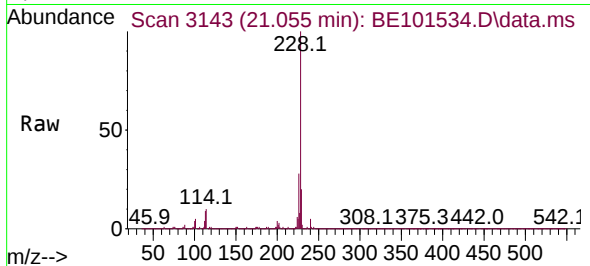
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.8	8.8
122	9.7	8.4	12.6





#81
Benzo(a)anthracene
Concen: 40.060 ng
RT: 21.055 min Scan# 3143
Delta R.T. 0.001 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

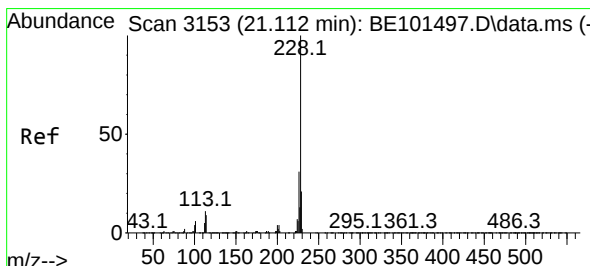
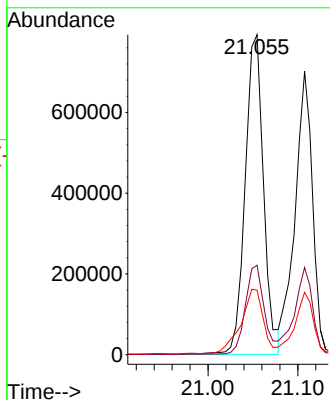
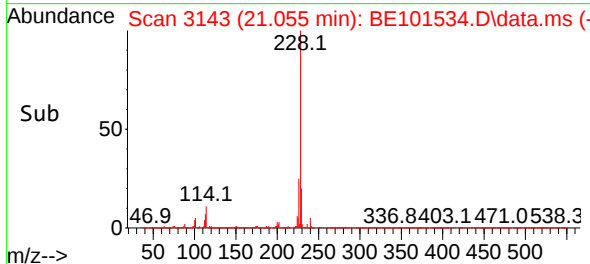
Instrument :
BNA_E
ClientSampleId :
CF-613-COMP-17DL



Tgt Ion:228 Resp: 1125380
Ion Ratio Lower Upper
228 100
226 28.0 22.4 33.6
229 20.2 16.1 24.1

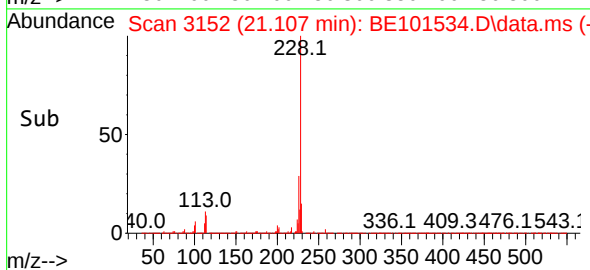
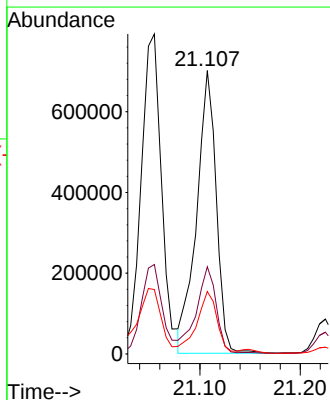
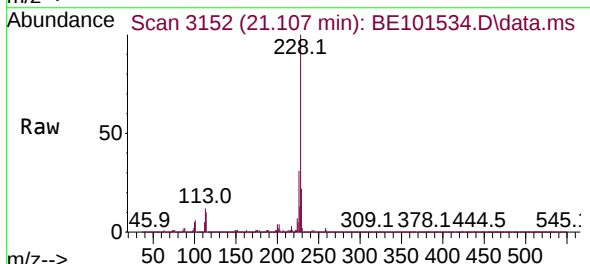
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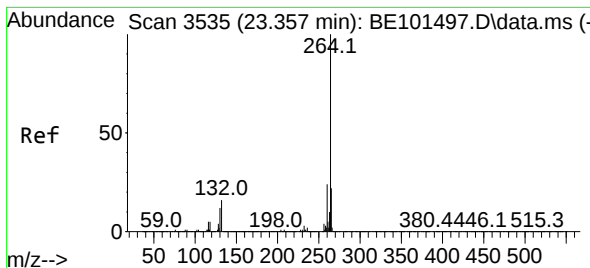
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#83
Chrysene
Concen: 35.767 ng
RT: 21.107 min Scan# 3152
Delta R.T. -0.005 min
Lab File: BE101534.D
Acq: 7 Nov 2024 16:54

Tgt Ion:228 Resp: 955066
Ion Ratio Lower Upper
228 100
226 30.8 25.1 37.7
229 22.0 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.358 min Scan# 31

Delta R.T. 0.001 min

Lab File: BE101534.D

Acq: 7 Nov 2024 16:54

Instrument :

BNA_E

ClientSampleId :

CF-613-COMP-17DL

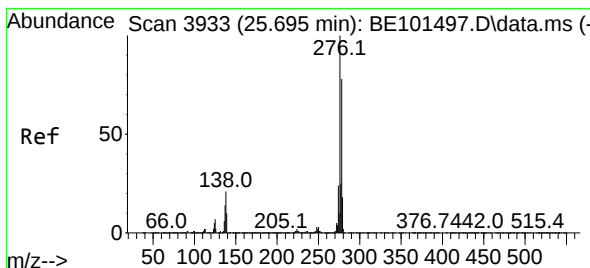
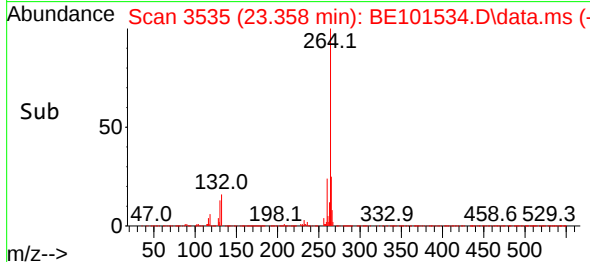
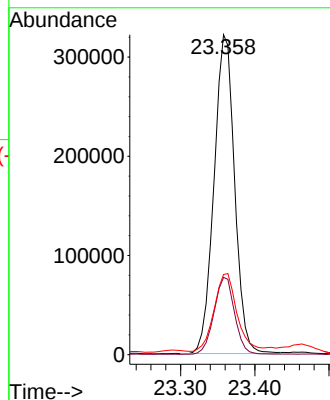
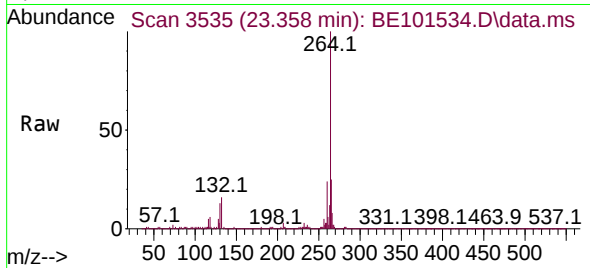
Tgt Ion:	264	Resp:	62052
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.4	29.2
265	25.0	17.4	26.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.615 ng

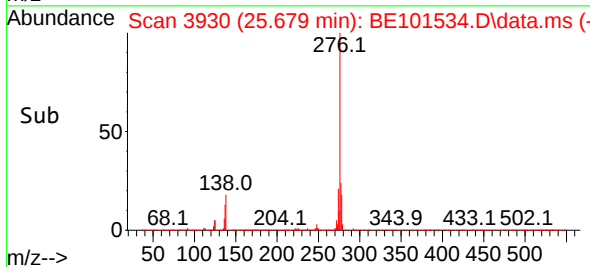
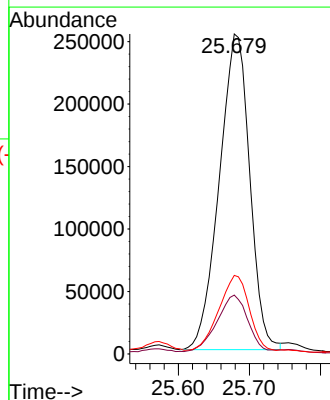
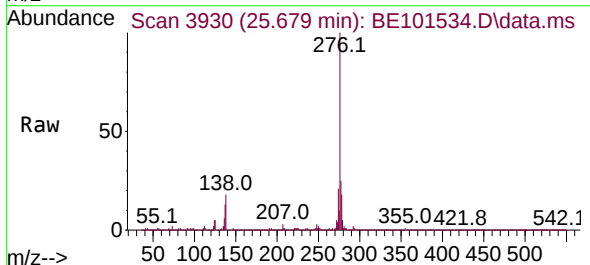
RT: 25.679 min Scan# 3930

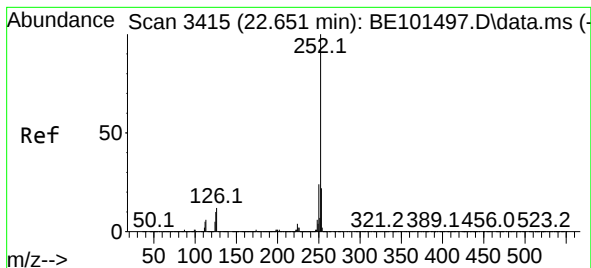
Delta R.T. -0.016 min

Lab File: BE101534.D

Acq: 7 Nov 2024 16:54

Tgt Ion:	276	Resp:	751130
Ion Ratio	Lower	Upper	
276	100		
138	17.9	17.0	25.6
277	25.3	20.2	30.2





#88

Benzo(b)fluoranthene

Concen: 36.590 ng

RT: 22.653 min Scan# 3415

Delta R.T. 0.001 min

Lab File: BE101534.D

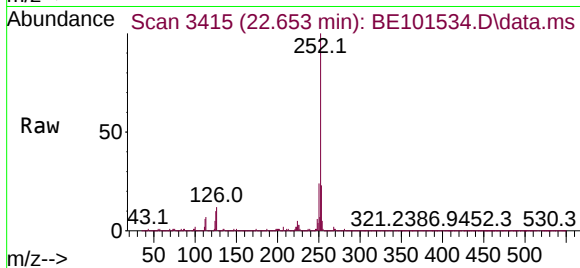
Acq: 7 Nov 2024 16:54

Instrument :

BNA_E

ClientSampleId :

CF-613-COMP-17DL



Tgt Ion:252 Resp: 124568

Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

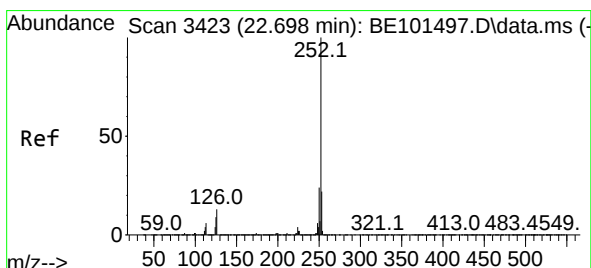
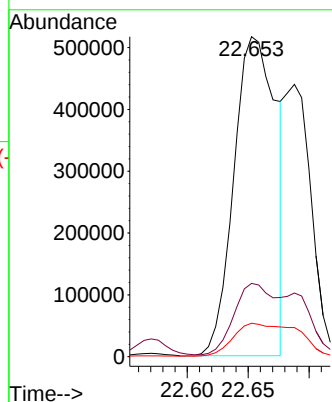
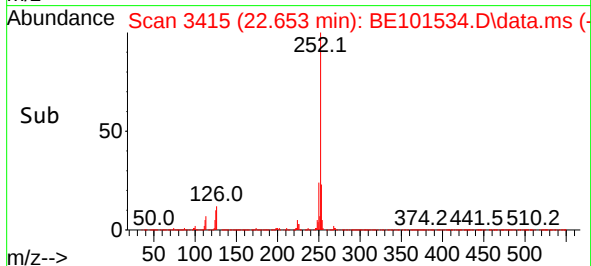
125 10.5 7.8 11.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#89

Benzo(k)fluoranthene

Concen: 21.272 ng m

RT: 22.688 min Scan# 3421

Delta R.T. -0.011 min

Lab File: BE101534.D

Acq: 7 Nov 2024 16:54

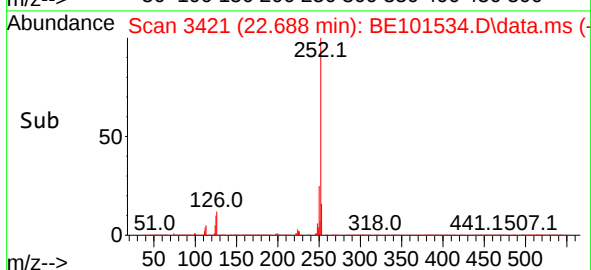
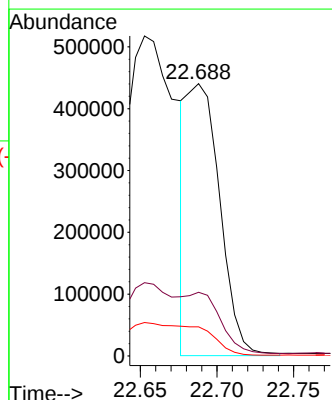
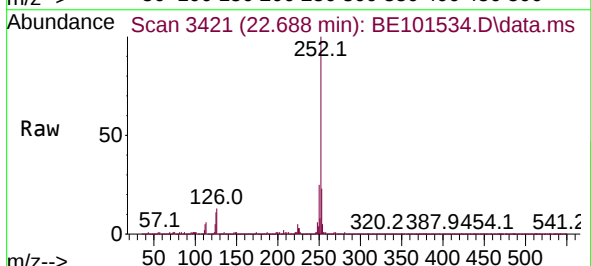
Tgt Ion:252 Resp: 657408

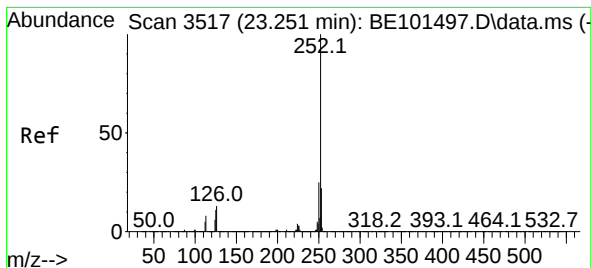
Ion Ratio Lower Upper

252 100

253 23.4 17.9 26.9

125 10.7 7.7 11.5





#90

Benzo(a)pyrene

Concen: 35.306 ng

RT: 23.252 min Scan# 3

Delta R.T. 0.001 min

Lab File: BE101534.D

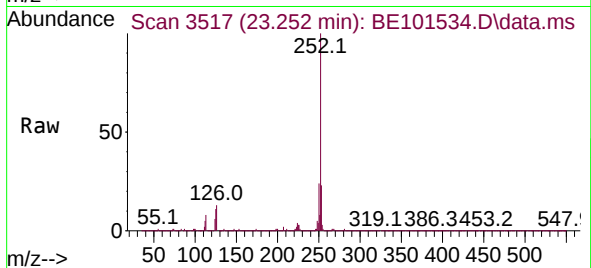
Acq: 7 Nov 2024 16:54

Instrument :

BNA_E

ClientSampleId :

CF-613-COMP-17DL



Tgt Ion:252 Resp: 103770

Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

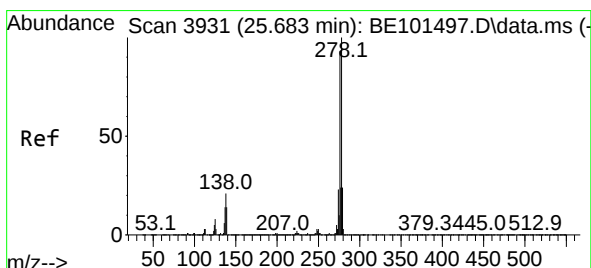
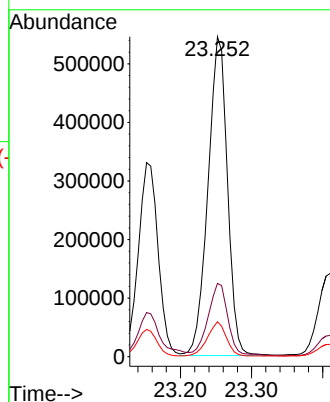
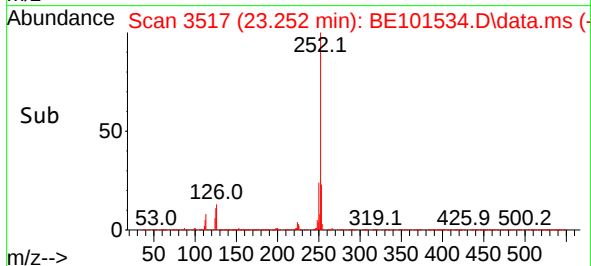
125 10.9 8.6 13.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#91

Dibenzo(a,h)anthracene

Concen: 5.363 ng m

RT: 25.661 min Scan# 3927

Delta R.T. -0.022 min

Lab File: BE101534.D

Acq: 7 Nov 2024 16:54

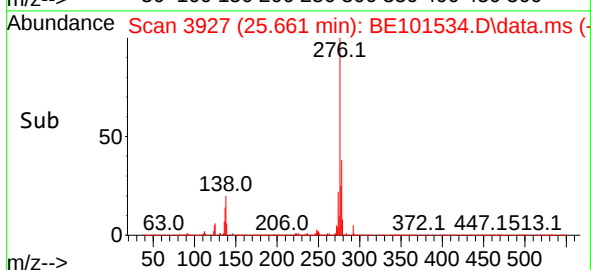
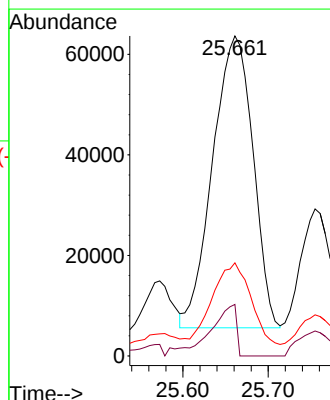
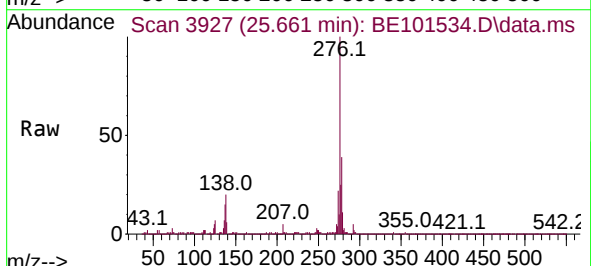
Tgt Ion:278 Resp: 190450

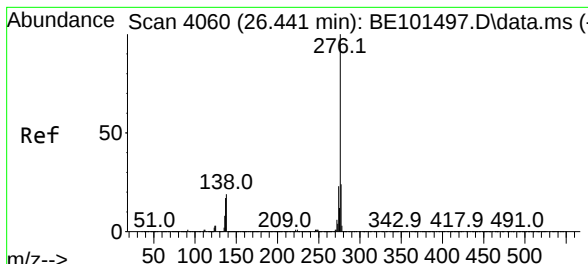
Ion Ratio Lower Upper

278 100

139 16.1 11.2 16.8

279 29.1 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 19.457 ng
 RT: 26.431 min Scan# 4060
 Delta R.T. -0.011 min
 Lab File: BE101534.D
 Acq: 7 Nov 2024 16:54

Instrument : BNA_E
 ClientSampleId : CF-613-COMP-17DL

Tgt Ion:	276	Resp:	70202
Ion Ratio	Lower	Upper	
276	100		
277	26.5	19.5	29.3
138	19.8	15.3	22.9

Manual Integrations
APPROVED
 Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/08/2024

