

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140377.D
 Acq On : 14 Nov 2024 21:54
 Operator : RC/JU
 Sample : P4722-08DL 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-2(0-6)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/15/2024
 Supervised By :mohammad ahmed 11/15/2024

Quant Time: Nov 15 00:30:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	137496	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	500452	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	231647	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	343646	20.000	ng	0.00
76) Chrysene-d12	14.045	240	249695	20.000	ng	0.00
86) Perylene-d12	15.539	264	178555	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	411590	51.110	ng	0.01
7) Phenol-d6	6.516	99	532252	48.783	ng	0.01
23) Nitrobenzene-d5	7.434	82	342877	35.697	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	89556	38.877	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	584873	40.588	ng	0.00
79) Terphenyl-d14	12.980	244	450848	31.341	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.175	128	56490	2.225	ng	99
52) Acenaphthene	9.939	154	45039	3.433	ng	97
55) Dibenzofuran	10.116	168	37557	2.022	ng	96
58) Fluorene	10.457	166	39750	2.709	ng	99
71) Phenanthrene	11.422	178	494923	30.659	ng	99
72) Anthracene	11.475	178	126783	8.014	ng	98
73) Carbazole	11.633	167	45373	2.904	ng	98
75) Fluoranthene	12.616	202	739589	40.836	ng	100
78) Pyrene	12.845	202	694308	32.508	ng	99
81) Benzo(a)anthracene	14.033	228	347397	21.169	ng	98
83) Chrysene	14.068	228	296320	19.790	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	119520	10.836	ng	95
88) Benzo(b)fluoranthene	15.104	252	309451m	26.494	ng	
89) Benzo(k)fluoranthene	15.121	252	80593m	8.446	ng	
90) Benzo(a)pyrene	15.474	252	196874	21.705	ng	98
91) Dibenzo(a,h)anthracene	17.045	278	28476	3.123	ng	# 85
92) Benzo(g,h,i)perylene	17.492	276	120148	12.890	ng	100

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

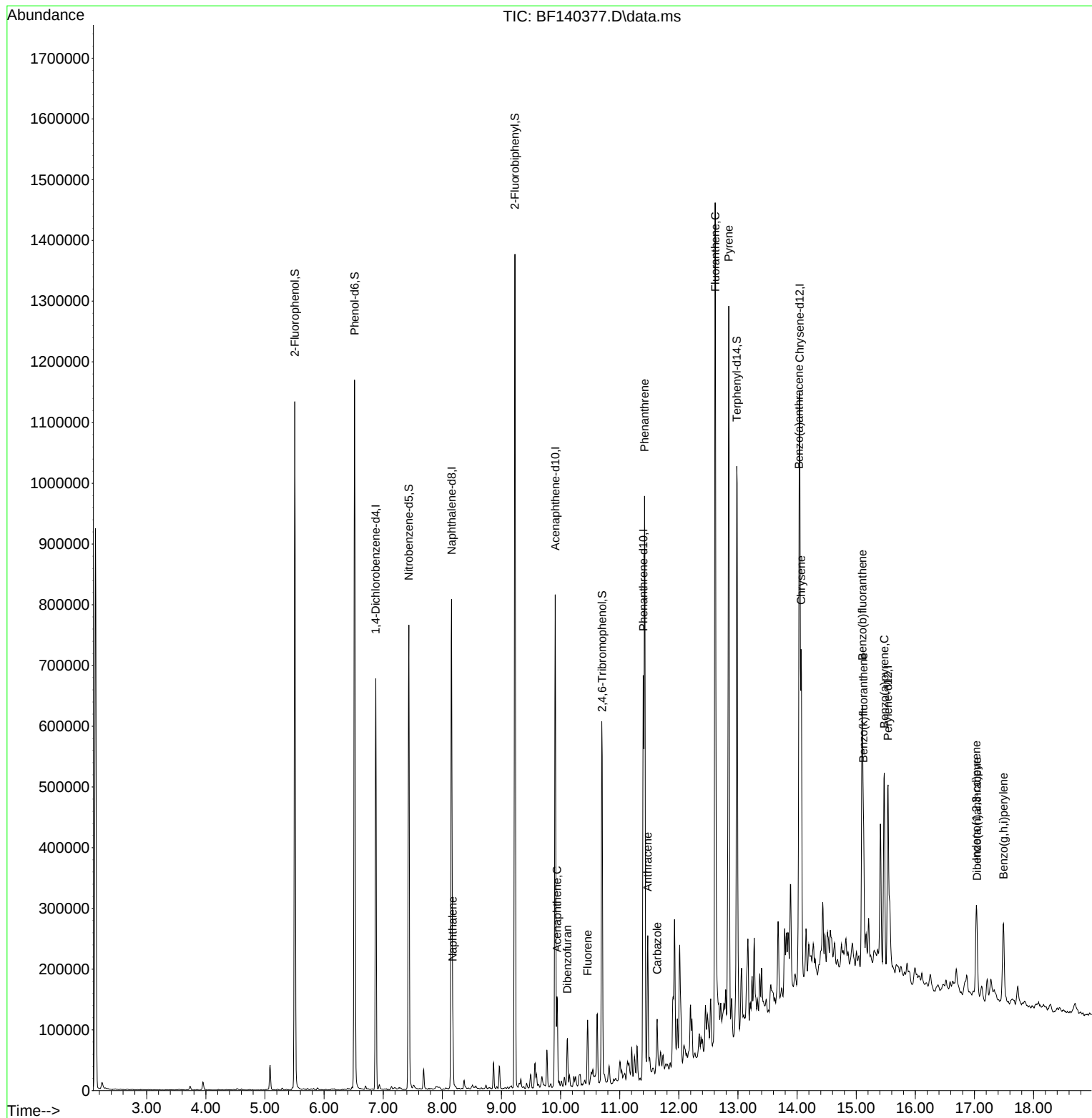
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
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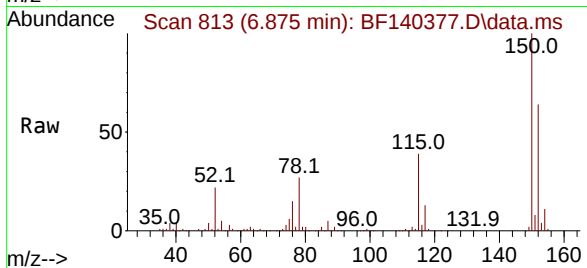
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL



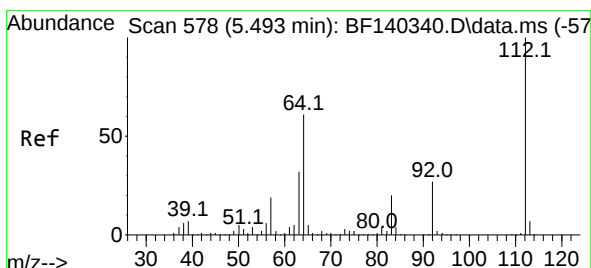
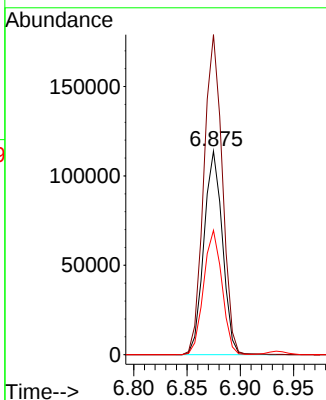
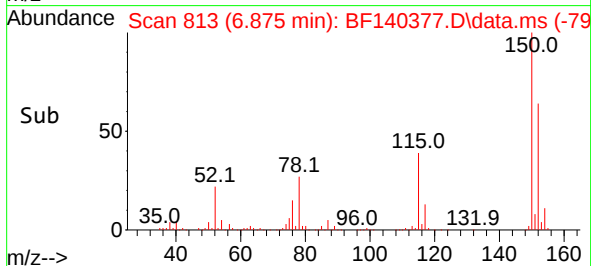
Tgt Ion:152 Resp: 137490
Ion Ratio Lower Upper
152 100
150 157.2 127.4 191.0
115 61.1 47.4 71.2

Manual Integrations

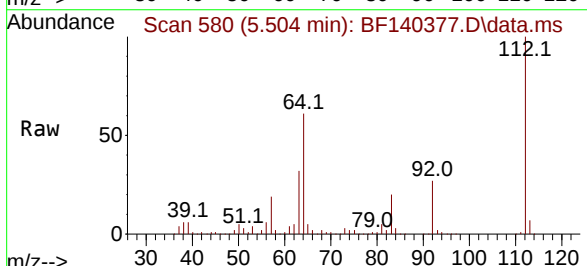
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Reviewed By :Yogesh Patel 11/15/2024

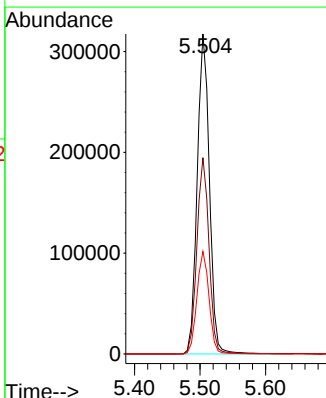
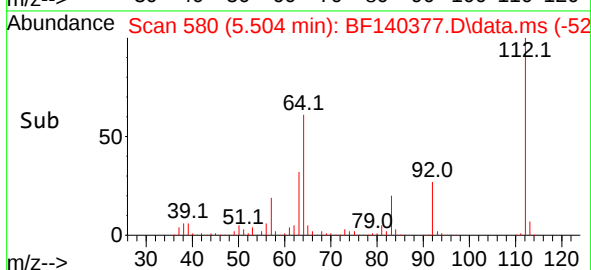
Supervised By :mohammad ahmed 11/15/2024



#5
2-Fluorophenol
Concen: 51.110 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54



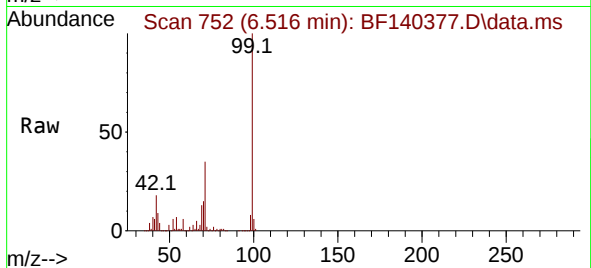
Tgt Ion:112 Resp: 411590
Ion Ratio Lower Upper
112 100
64 61.4 49.2 73.8
63 32.0 25.6 38.4





#7
Phenol-d6
Concen: 48.783 ng
RT: 6.516 min Scan# 71
Delta R.T. 0.012 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

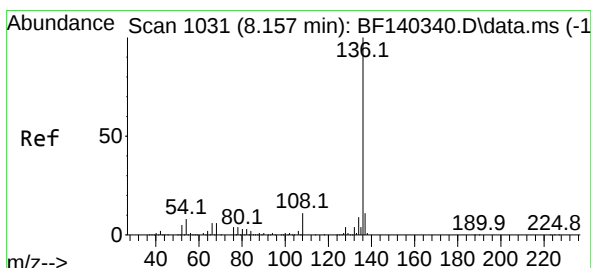
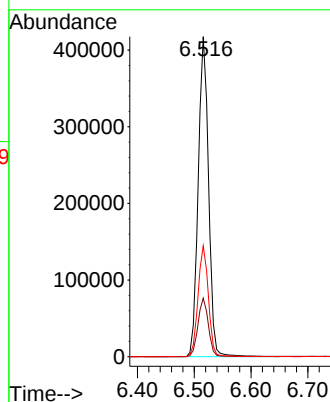
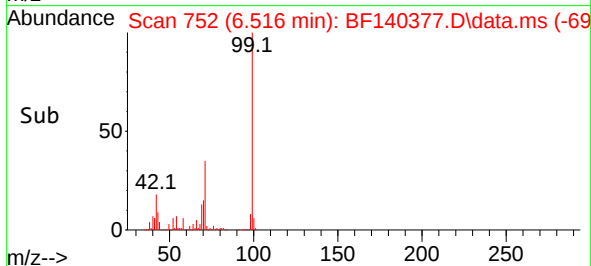
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)DL



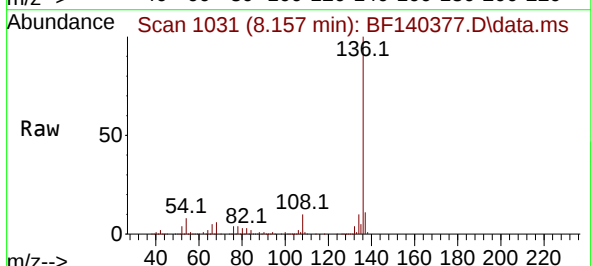
Tgt Ion: 99 Resp: 53225
Ion Ratio Lower Upper
99 100
42 18.3 15.1 22.7
71 34.7 27.9 41.9

Manual Integrations
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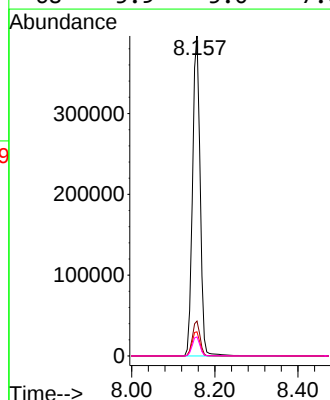
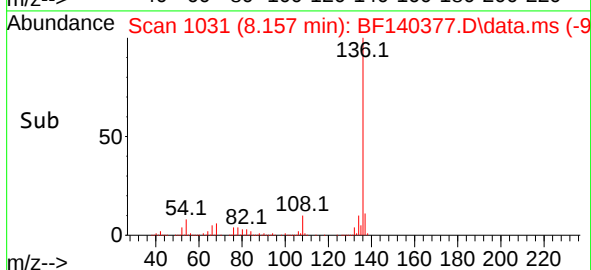
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024

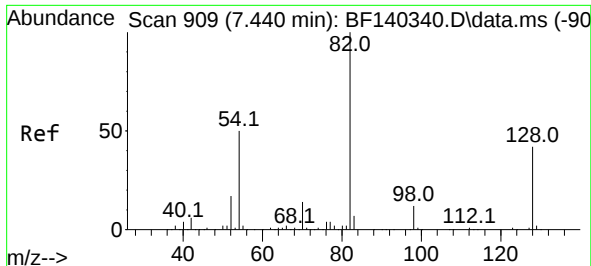


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.000 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54



Tgt Ion:136 Resp: 500452
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.5 6.5 9.7
68 5.9 5.0 7.6





#23
Nitrobenzene-d5
Concen: 35.697 ng
RT: 7.434 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

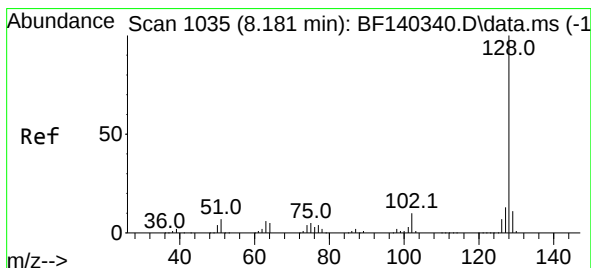
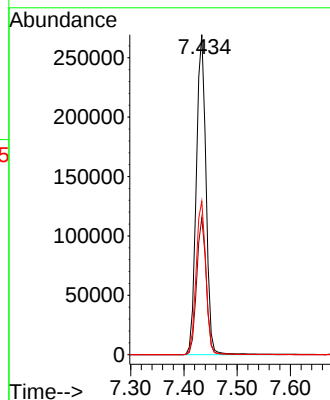
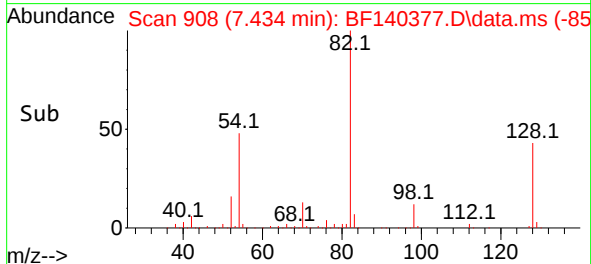
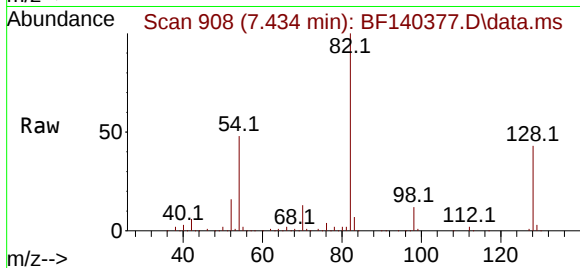
WC-2(0-6)DL

Tgt Ion: 82 Resp: 34287
Ion Ratio Lower Upper
82 100
128 42.8 33.3 49.9
54 48.0 39.8 59.8

Manual Integrations

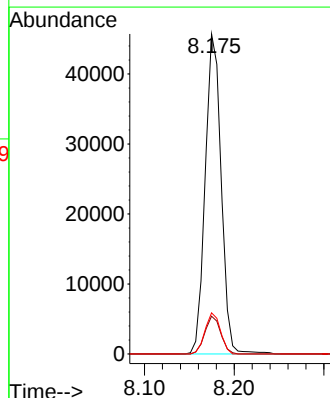
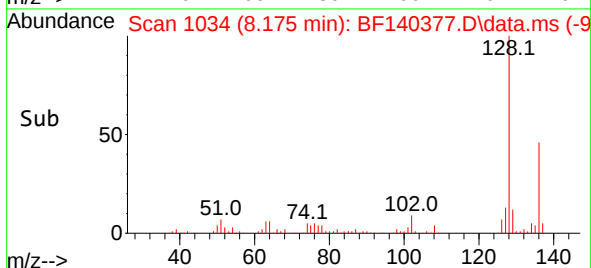
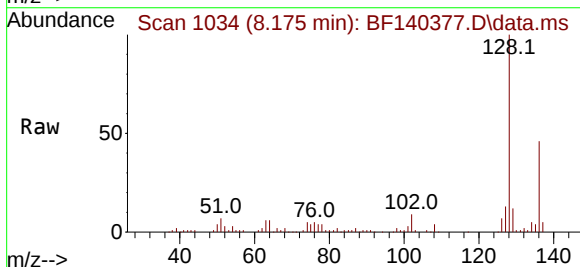
APPROVED

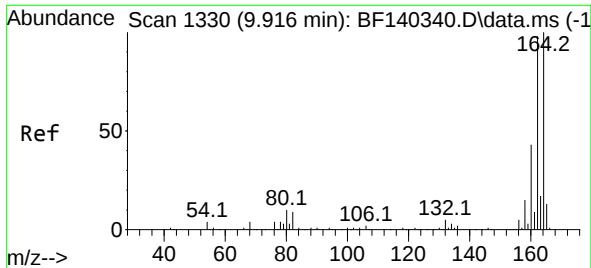
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024



#31
Naphthalene
Concen: 2.225 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Tgt Ion:128 Resp: 56490
Ion Ratio Lower Upper
128 100
129 11.8 8.9 13.3
127 12.9 10.6 15.8





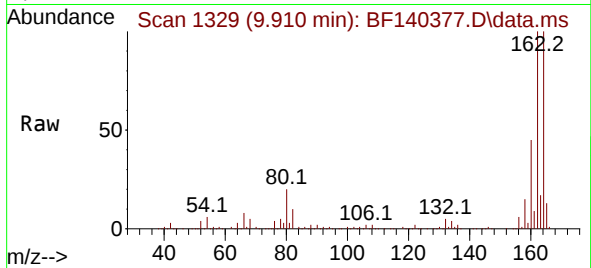
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL



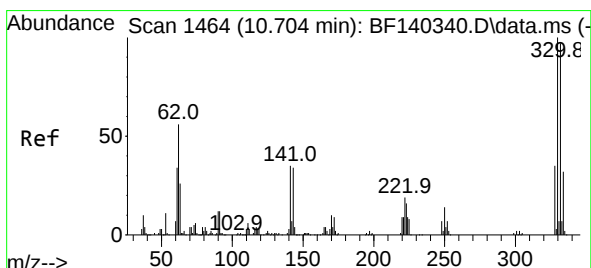
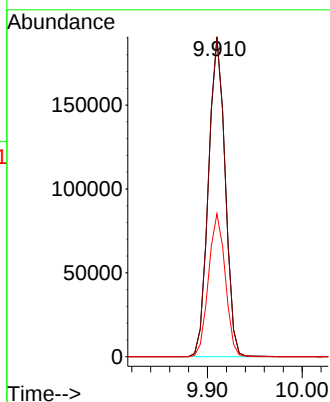
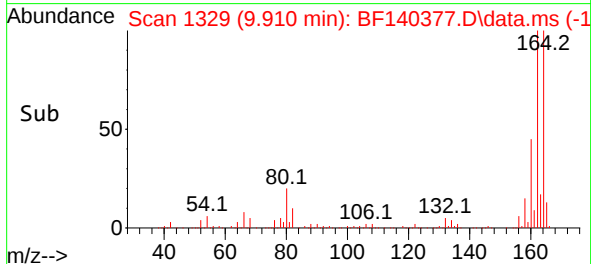
Tgt Ion:164 Resp: 23164
Ion Ratio Lower Upper
164 100
162 100.5 79.8 119.8
160 44.8 35.4 53.0

Manual Integrations

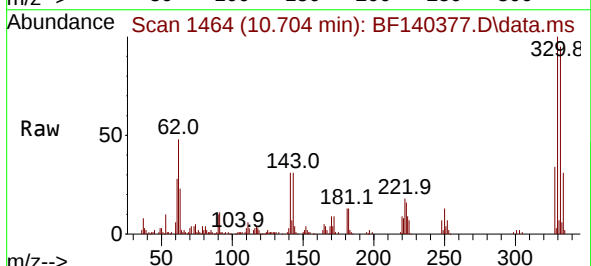
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Reviewed By :Yogesh Patel 11/15/2024

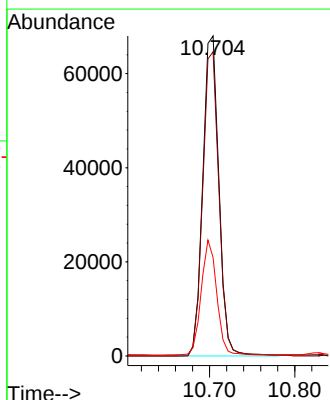
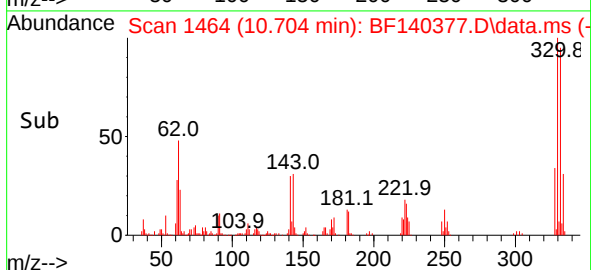
Supervised By :mohammad ahmed 11/15/2024

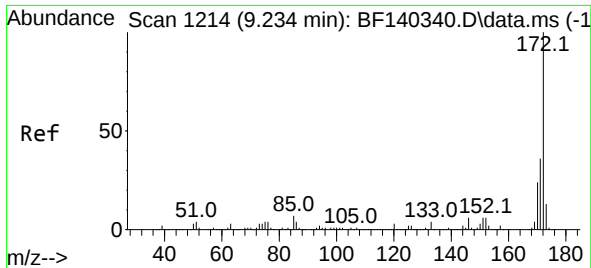


#42
2,4,6-Tribromophenol
Concen: 38.877 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54



Tgt Ion:330 Resp: 89556
Ion Ratio Lower Upper
330 100
332 95.7 75.9 113.9
141 34.2 26.9 40.3





#45

2-Fluorobiphenyl

Concen: 40.588 ng

RT: 9.228 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140377.D

Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL

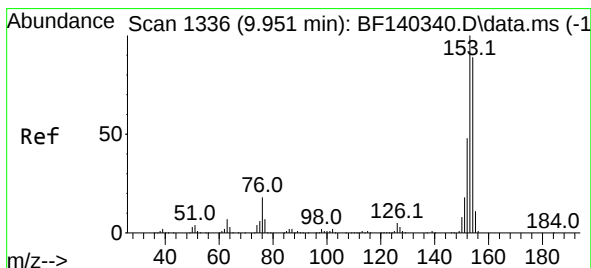
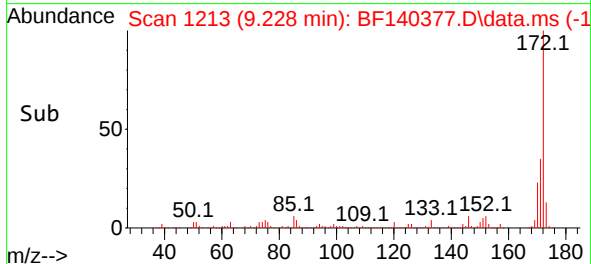
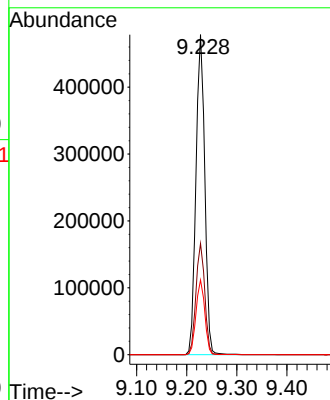
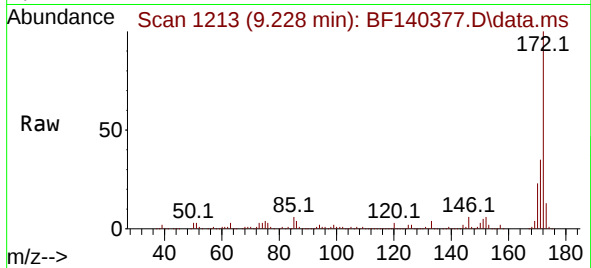
Tgt Ion:172 Resp: 58487
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.5 42.7
 170 23.3 19.1 28.7

Manual Integrations

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#52

Acenaphthene

Concen: 3.433 ng

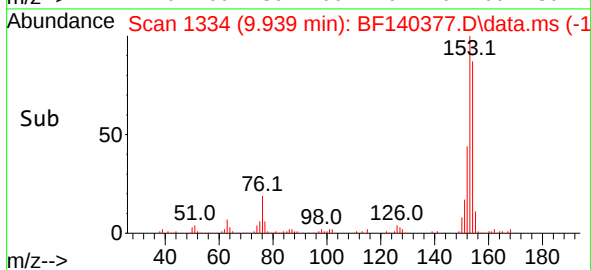
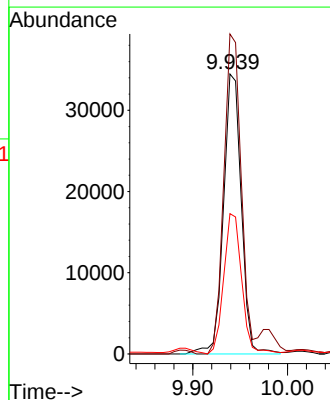
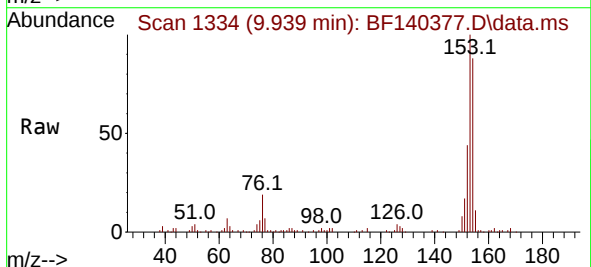
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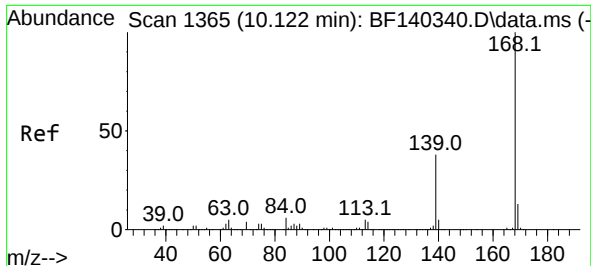
Delta R.T. -0.012 min

Lab File: BF140377.D

Acq: 14 Nov 2024 21:54

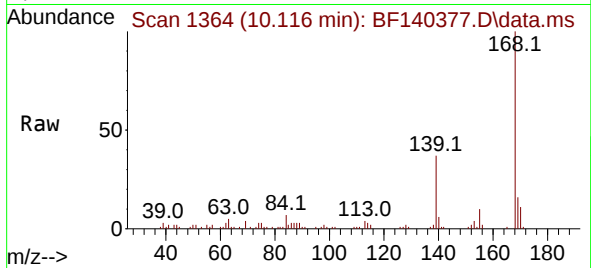
Tgt Ion:154 Resp: 45039
 Ion Ratio Lower Upper
 154 100
 153 114.3 89.8 134.8
 152 50.1 42.6 64.0





#55
Dibenzenofuran
Concen: 2.022 ng
RT: 10.116 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

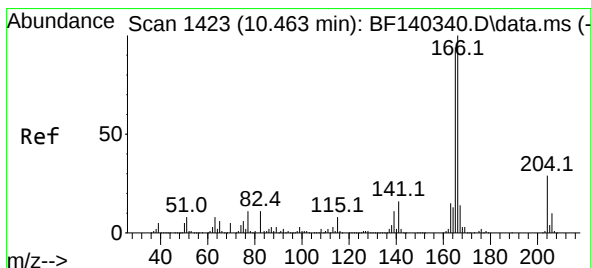
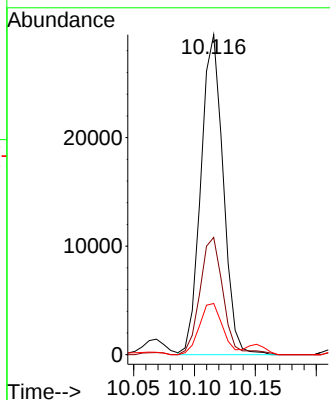
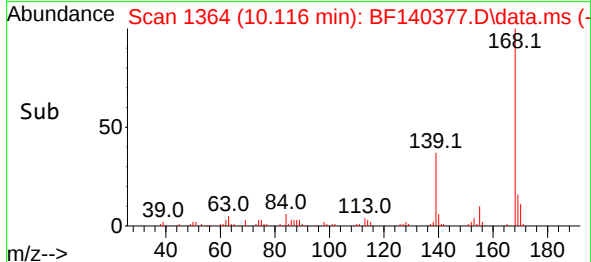
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)DL



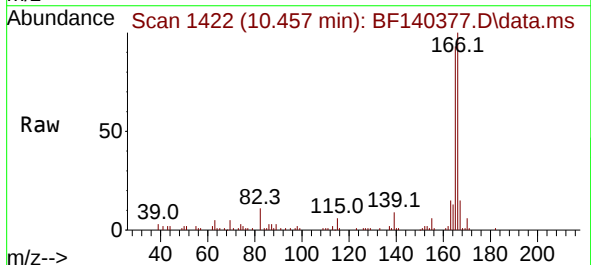
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Ion Ratio Lower Upper
168 100
139 36.6 30.8 46.2
169 16.0 10.8 16.2

Manual Integrations
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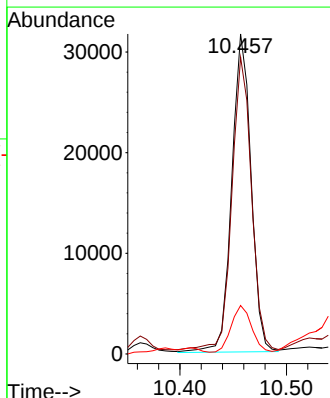
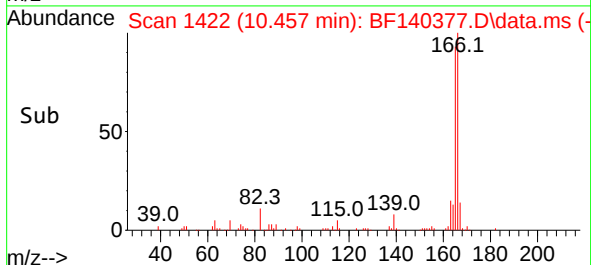
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024

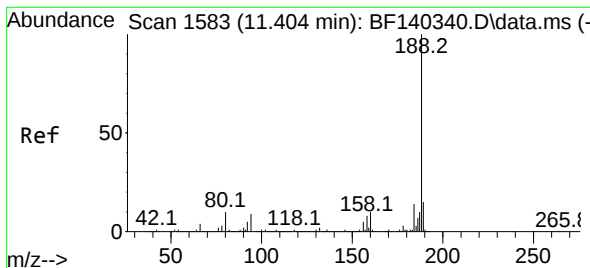


#58
Fluorene
Concen: 2.709 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54



Tgt Ion:166 Resp: 39750
Ion Ratio Lower Upper
166 100
165 92.7 73.9 110.9
167 15.2 10.9 16.3





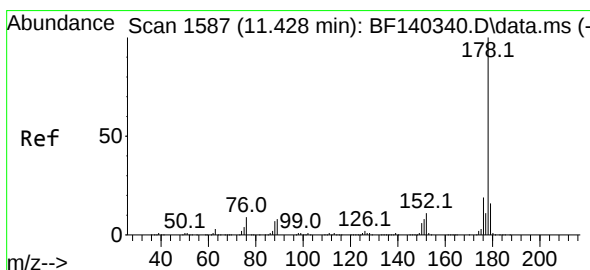
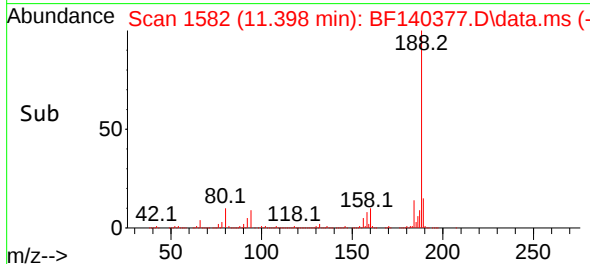
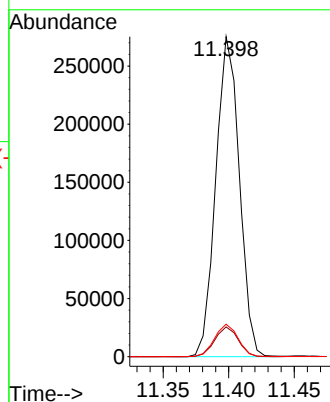
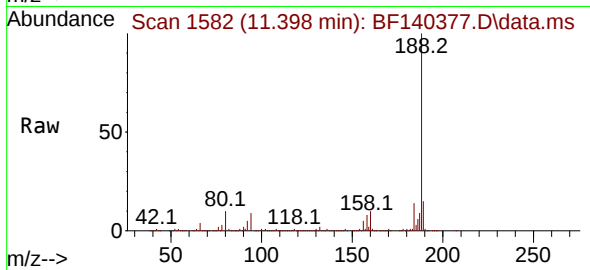
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)DL

Tgt Ion:188 Resp: 343640
Ion Ratio Lower Upper
188 100
94 9.3 7.6 11.4
80 10.1 8.0 12.0

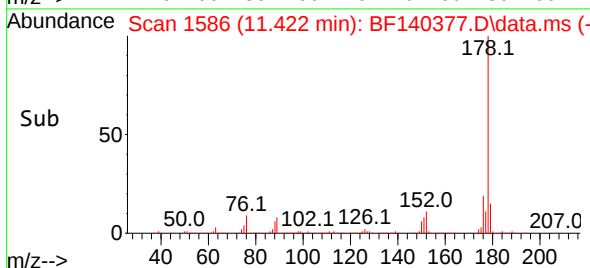
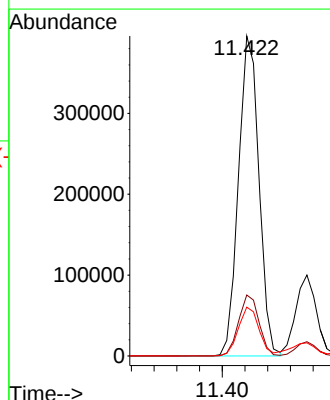
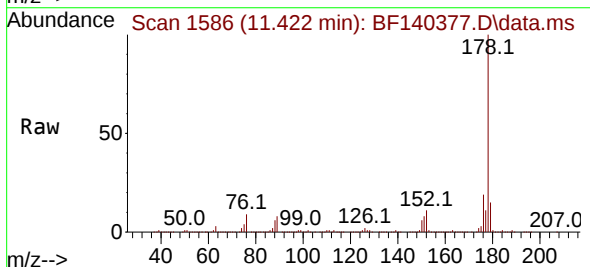
Manual Integrations
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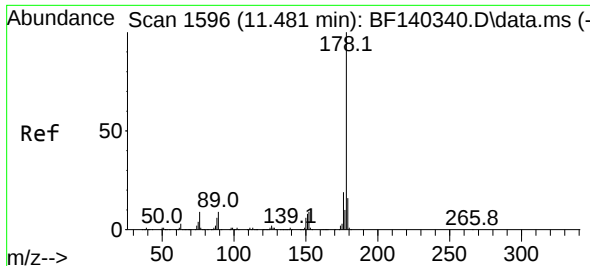
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024



#71
Phenanthrene
Concen: 30.659 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

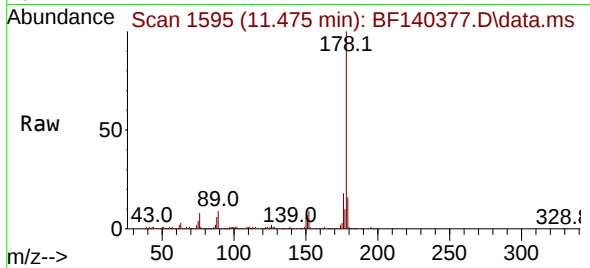
Tgt Ion:178 Resp: 494923
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.2 12.4 18.6





#72
 Anthracene
 Concen: 8.014 ng
 RT: 11.475 min Scan# 1595
 Delta R.T. -0.006 min
 Lab File: BF140377.D
 Acq: 14 Nov 2024 21:54

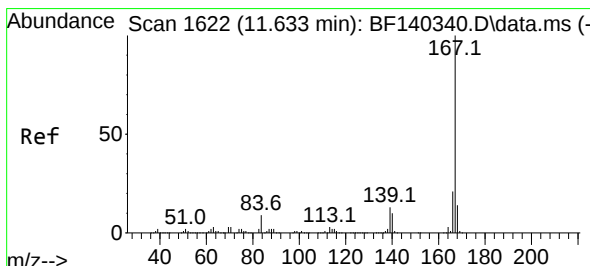
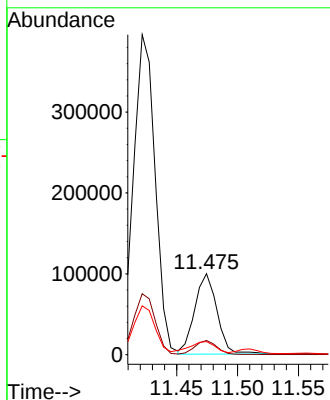
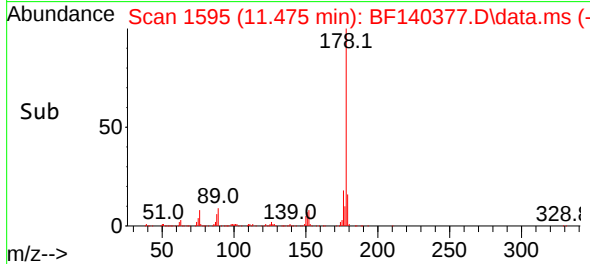
Instrument :
 BNA_F
 ClientSampleId :
 WC-2(0-6)DL



Tgt Ion:178 Resp: 126783
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.4 23.0
 179 16.2 12.6 18.8

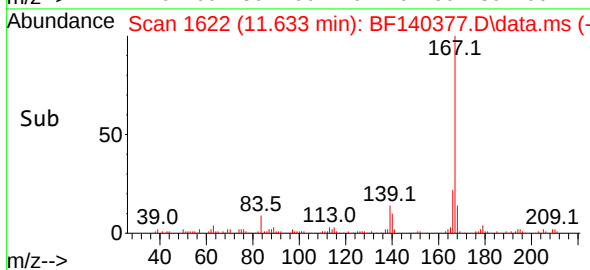
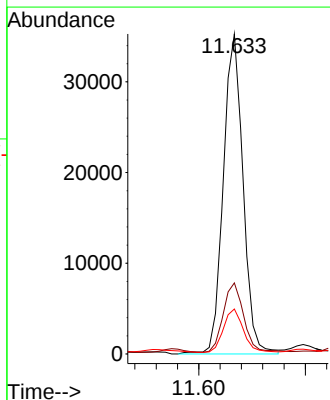
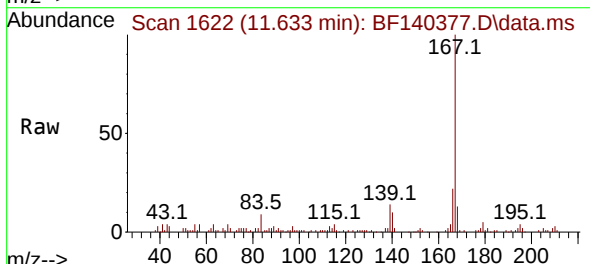
Manual Integrations
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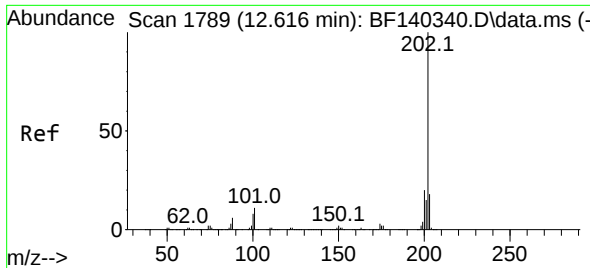
Reviewed By :Yogesh Patel 11/15/2024
 Supervised By :mohammad ahmed 11/15/2024



#73
 Carbazole
 Concen: 2.904 ng
 RT: 11.633 min Scan# 1622
 Delta R.T. -0.000 min
 Lab File: BF140377.D
 Acq: 14 Nov 2024 21:54

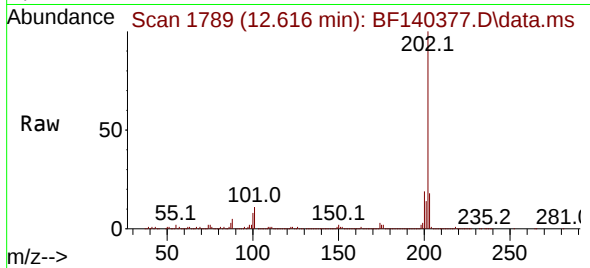
Tgt Ion:167 Resp: 45373
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.2 25.8
 139 14.0 10.4 15.6





#75
Fluoranthene
Concen: 40.836 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.000 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

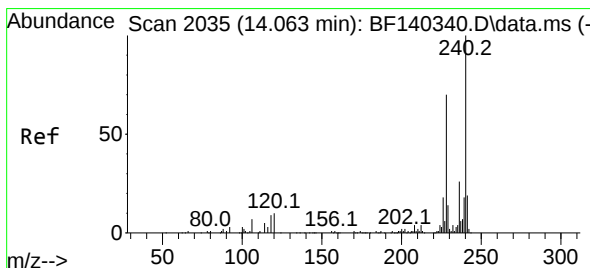
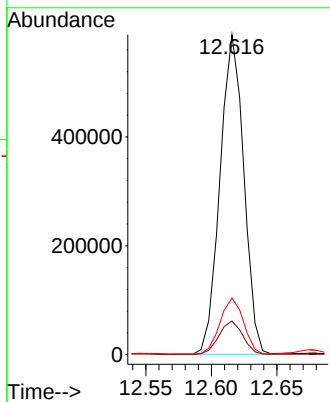
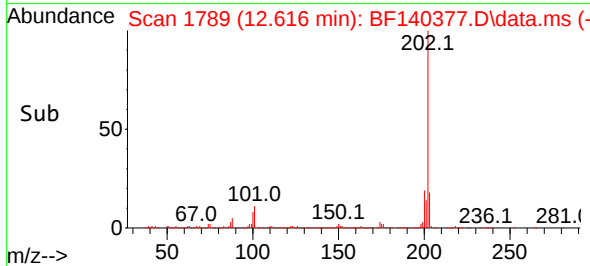
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)DL



Tgt Ion:202 Resp: 739589
Ion Ratio Lower Upper
202 100
101 10.5 0.0 30.7
203 17.7 0.0 37.7

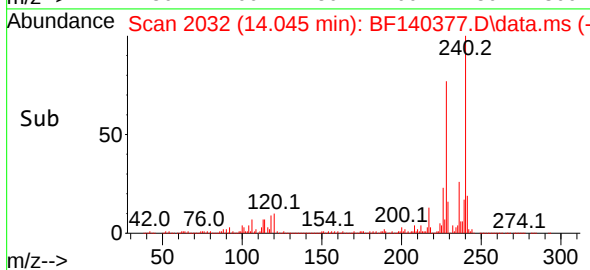
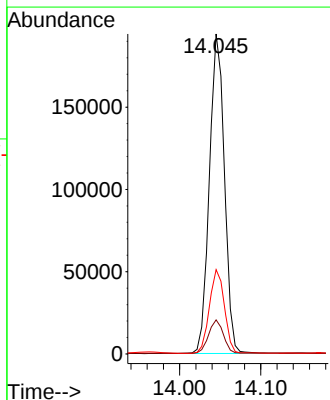
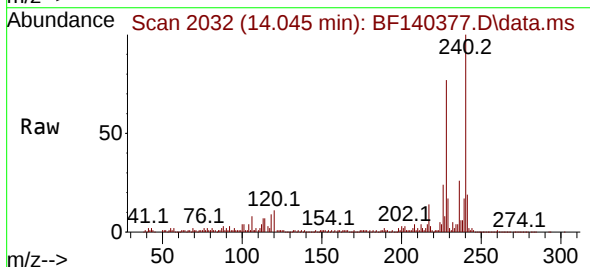
Manual Integrations
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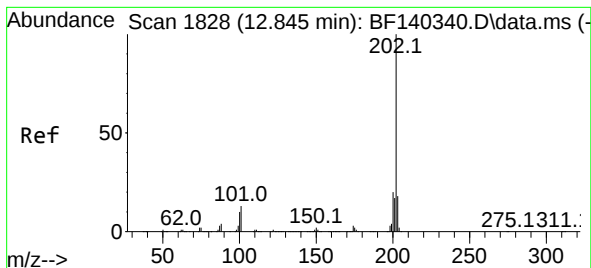
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Tgt Ion:240 Resp: 249695
Ion Ratio Lower Upper
240 100
120 10.6 8.8 13.2
236 26.4 20.9 31.3





#78

Pyrene

Concen: 32.508 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BF140377.D

Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL

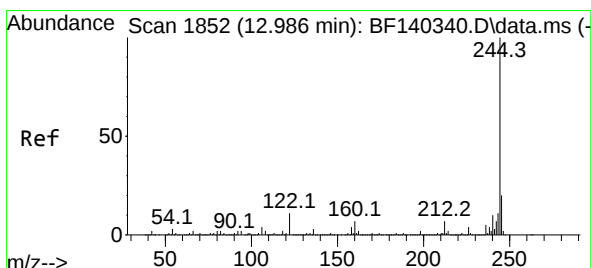
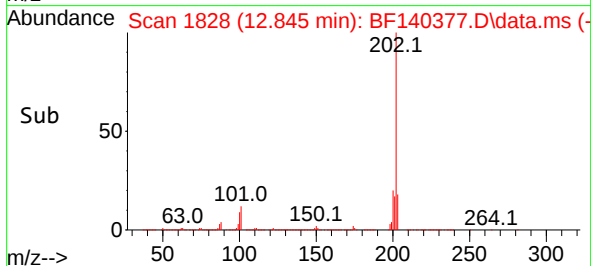
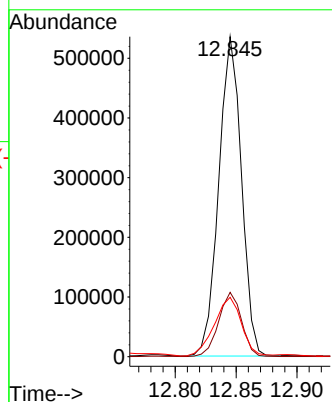
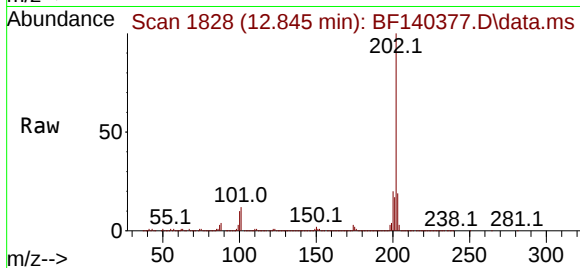
Tgt Ion:	202	Resp:	694308
Ion Ratio	Lower	Upper	
202	100		
200	20.1	16.2	24.2
203	18.5	14.2	21.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/15/2024

Supervised By :mohammad ahmed 11/15/2024



#79

Terphenyl-d14

Concen: 31.341 ng

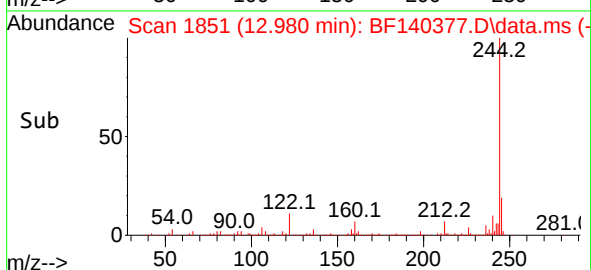
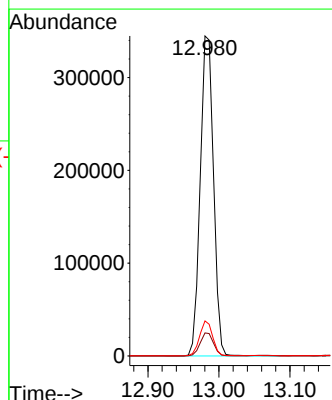
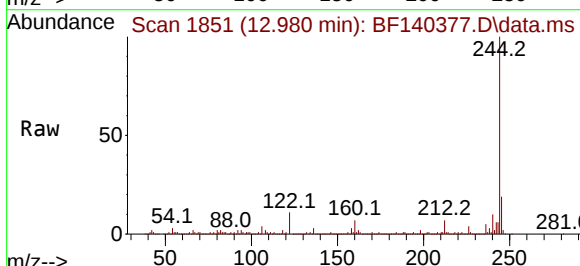
RT: 12.980 min Scan# 1851

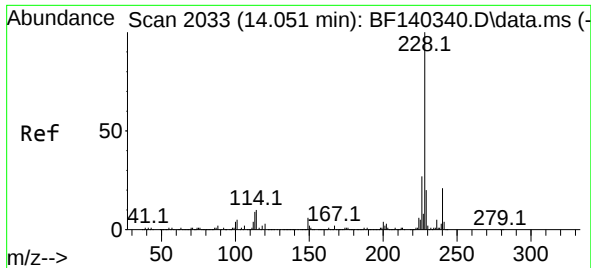
Delta R.T. -0.006 min

Lab File: BF140377.D

Acq: 14 Nov 2024 21:54

Tgt Ion:	244	Resp:	450848
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.8	8.8
122	11.0	8.8	13.2





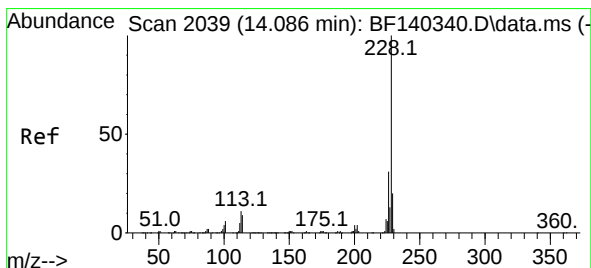
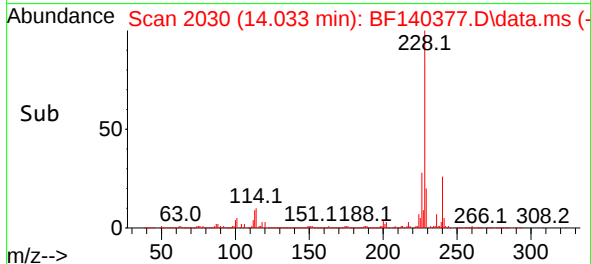
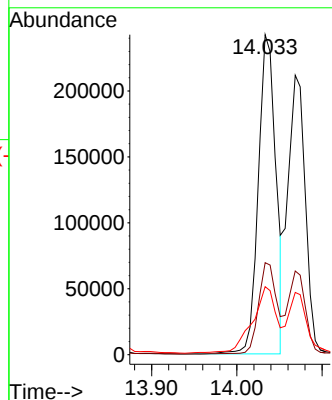
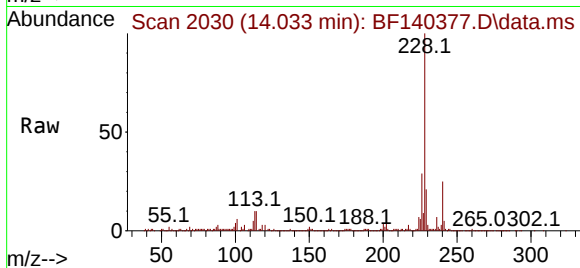
#81
Benzo(a)anthracene
Concen: 21.169 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)DL

Tgt Ion:228 Resp: 34739
Ion Ratio Lower Upper
228 100
226 28.8 22.2 33.4
229 21.2 15.8 23.6

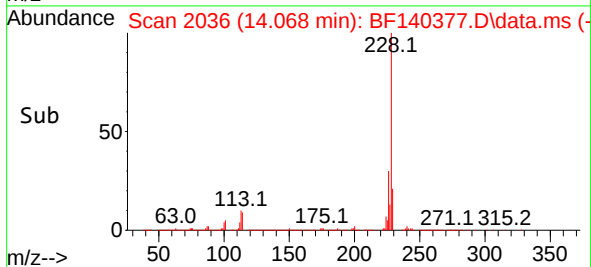
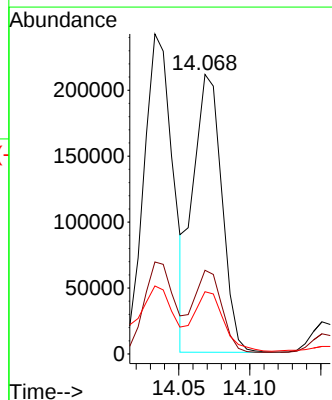
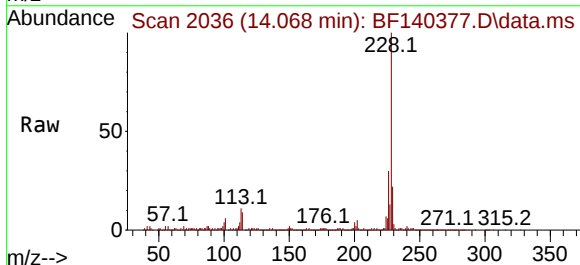
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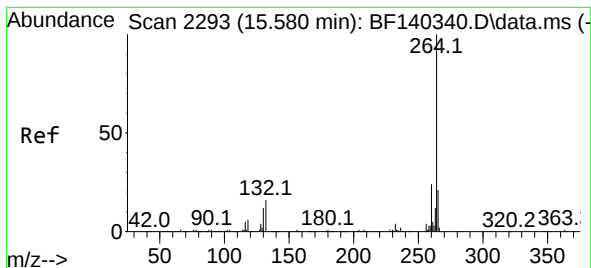
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024



#83
Chrysene
Concen: 19.790 ng
RT: 14.068 min Scan# 2036
Delta R.T. -0.012 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Tgt Ion:228 Resp: 296320
Ion Ratio Lower Upper
228 100
226 30.0 24.5 36.7
229 22.3 16.0 24.0





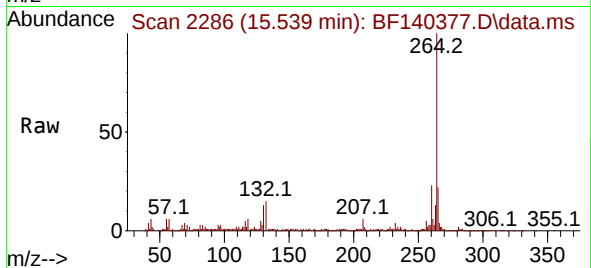
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.539 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BF140377.D
 Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL



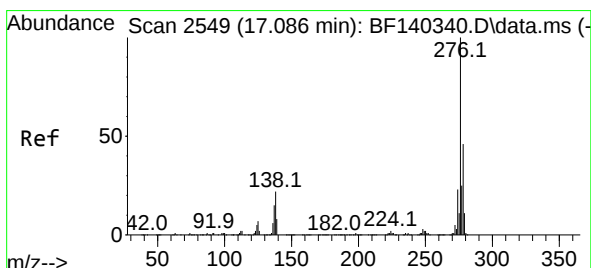
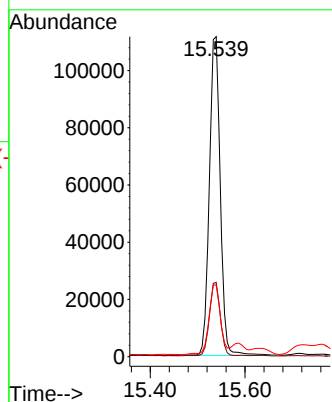
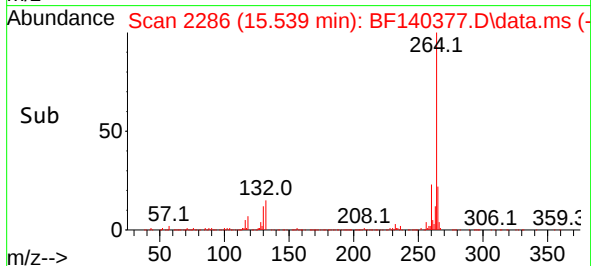
Tgt Ion:264 Resp: 17855
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.2 28.8
 265 22.4 17.1 25.7

Manual Integrations

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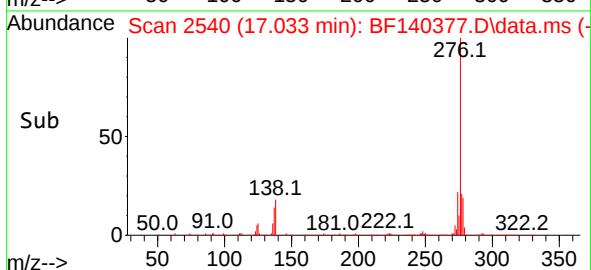
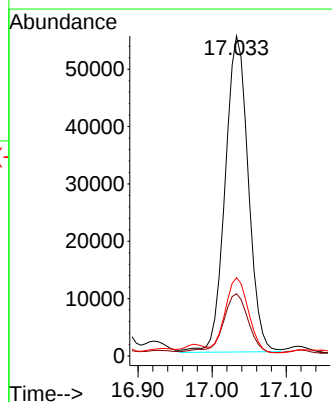
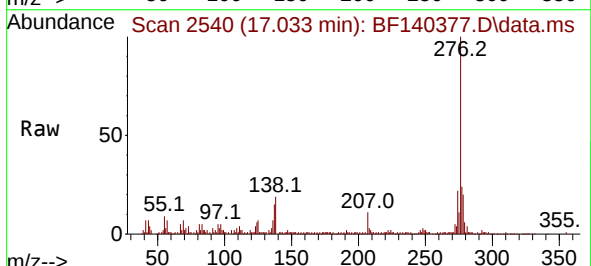
Reviewed By :Yogesh Patel 11/15/2024

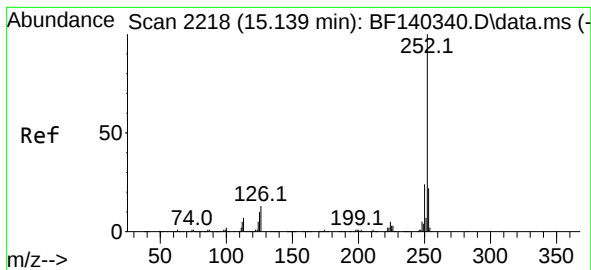
Supervised By :mohammad ahmed 11/15/2024



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 10.836 ng
 RT: 17.033 min Scan# 2540
 Delta R.T. -0.024 min
 Lab File: BF140377.D
 Acq: 14 Nov 2024 21:54

Tgt Ion:276 Resp: 119520
 Ion Ratio Lower Upper
 276 100
 138 20.1 18.8 28.2
 277 24.0 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 26.494 ng m

RT: 15.104 min Scan# 2212

Delta R.T. -0.012 min

Lab File: BF140377.D

Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL

Tgt Ion:252 Resp: 30945

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

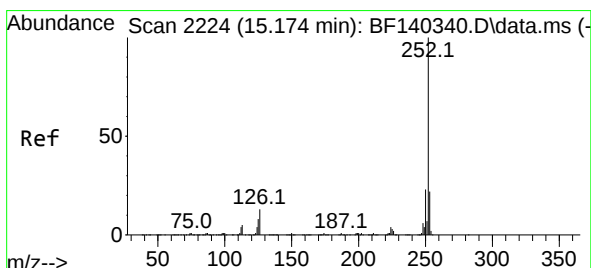
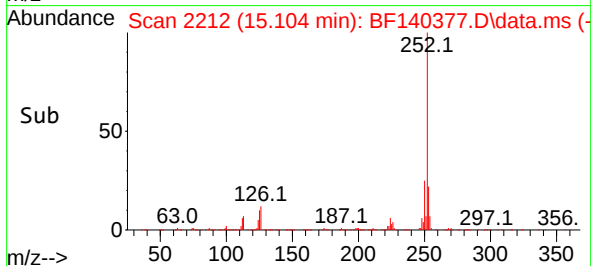
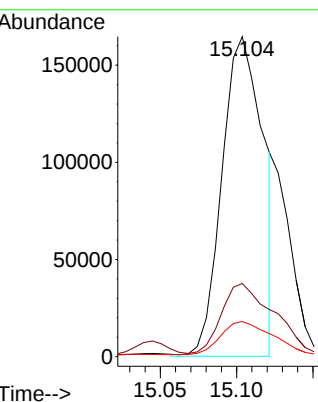
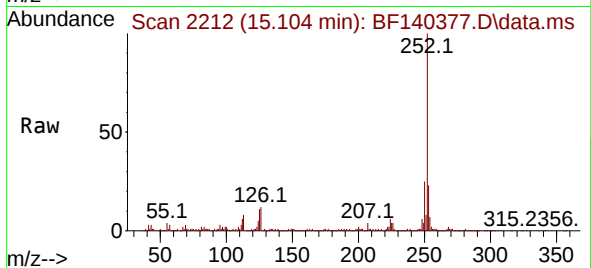
125 11.0 8.0 12.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/15/2024

Supervised By :mohammad ahmed 11/15/2024



#89

Benzo(k)fluoranthene

Concen: 8.446 ng m

RT: 15.121 min Scan# 2215

Delta R.T. -0.030 min

Lab File: BF140377.D

Acq: 14 Nov 2024 21:54

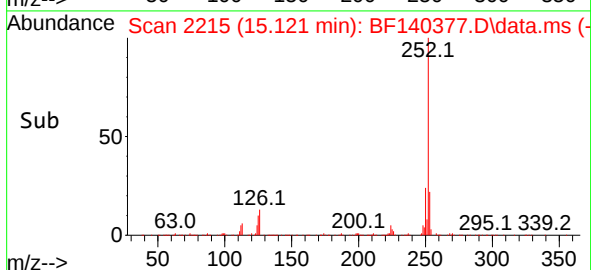
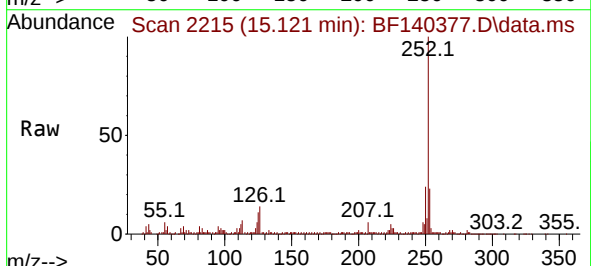
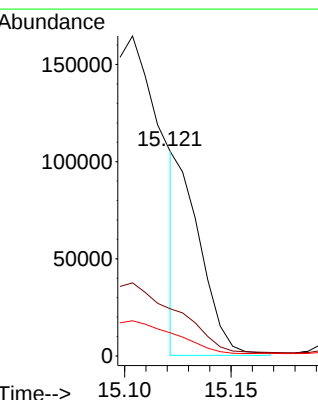
Tgt Ion:252 Resp: 80593

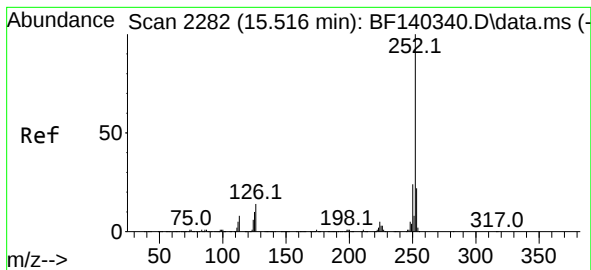
Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

125 11.3 7.4 11.2#





#90
Benzo(a)pyrene
Concen: 21.705 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

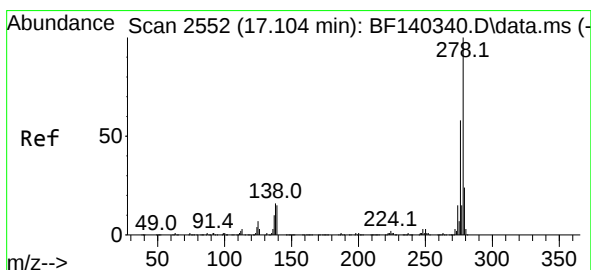
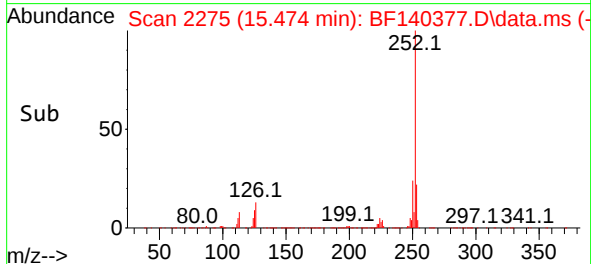
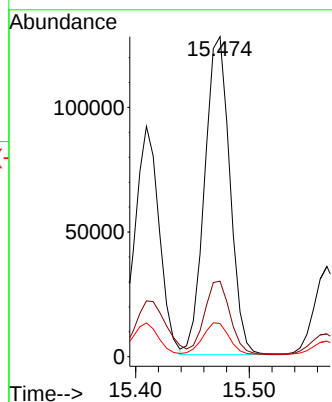
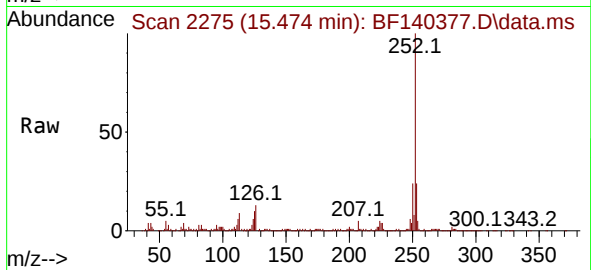
WC-2(0-6)DL

Tgt Ion:252 Resp: 196874
Ion Ratio Lower Upper
252 100
253 23.6 17.8 26.6
125 10.3 8.4 12.6

Manual Integrations

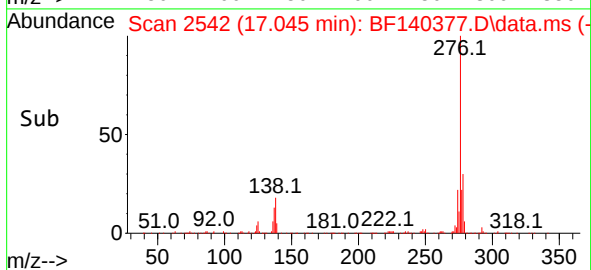
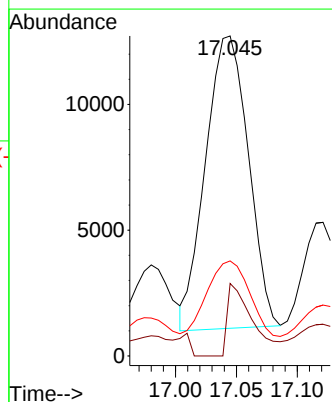
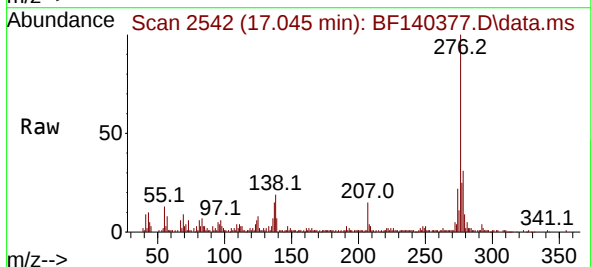
APPROVED

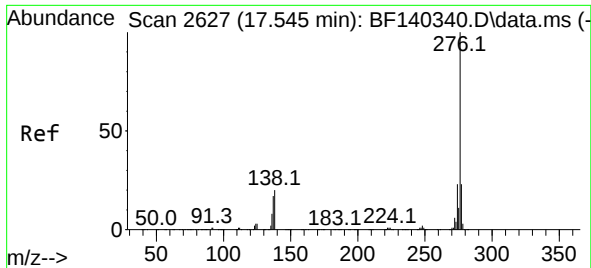
Reviewed By :Yogesh Patel 11/15/2024
Supervised By :mohammad ahmed 11/15/2024



#91
Dibenzo(a,h)anthracene
Concen: 3.123 ng
RT: 17.045 min Scan# 2542
Delta R.T. -0.029 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Tgt Ion:278 Resp: 28476
Ion Ratio Lower Upper
278 100
139 22.7 11.8 17.8#
279 29.7 18.9 28.3#





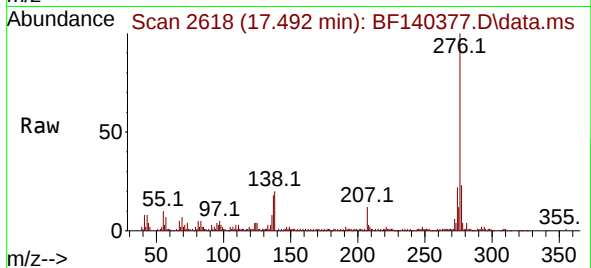
#92
Benzo(g,h,i)perylene
Concen: 12.890 ng
RT: 17.492 min Scan# 20
Delta R.T. -0.024 min
Lab File: BF140377.D
Acq: 14 Nov 2024 21:54

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)DL



Tgt Ion:276 Resp: 120148
Ion Ratio Lower Upper
276 100
277 23.4 18.6 28.0
138 20.3 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/15/2024

Supervised By :mohammad ahmed 11/15/2024

