

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120524\
 Data File : BF140758.D
 Acq On : 05 Dec 2024 19:29
 Operator : RC/JU
 Sample : P5098-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-04-12042024

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/07/2024
 Supervised By :mohammad ahmed 12/07/2024

Quant Time: Dec 06 00:07:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	53659	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	168105	20.000	ng	# 0.00
39) Acenaphthene-d10	9.910	164	76294	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	137445	20.000	ng	# 0.00
76) Chrysene-d12	14.057	240	113590	20.000	ng	0.00
86) Perylene-d12	15.562	264	84812	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	232197	73.832	ng	0.00
7) Phenol-d6	6.510	99	279665	67.265	ng	0.00
23) Nitrobenzene-d5	7.434	82	179547	54.632	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	51787	63.467	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	288377	56.317	ng	-0.01
79) Terphenyl-d14	12.986	244	315546	43.256	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.863	142	46243	8.408	ng	99
38) 1-Methylnaphthalene	8.963	142	30729	5.700	ng	89
46) 1,1'-Biphenyl	9.328	154	24243	4.256	ng	96
71) Phenanthrene	11.427	178	139952	21.183	ng	98
72) Anthracene	11.480	178	27650m	4.278	ng	
73) Carbazole	11.639	167	13953	2.244	ng	# 63
75) Fluoranthene	12.621	202	301189	41.987	ng	99
78) Pyrene	12.851	202	323621	30.813	ng	99
81) Benzo(a)anthracene	14.045	228	140708	18.713	ng	# 94
83) Chrysene	14.080	228	114911	16.713	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.080	276	59710	10.803	ng	99
88) Benzo(b)fluoranthene	15.127	252	142054m	26.666	ng	
89) Benzo(k)fluoranthene	15.139	252	49044m	10.521	ng	
90) Benzo(a)pyrene	15.498	252	107224	24.755	ng	# 94
91) Dibenzo(a,h)anthracene	17.080	278	14979	3.309	ng	# 78
92) Benzo(g,h,i)perylene	17.545	276	58076	12.573	ng	97

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

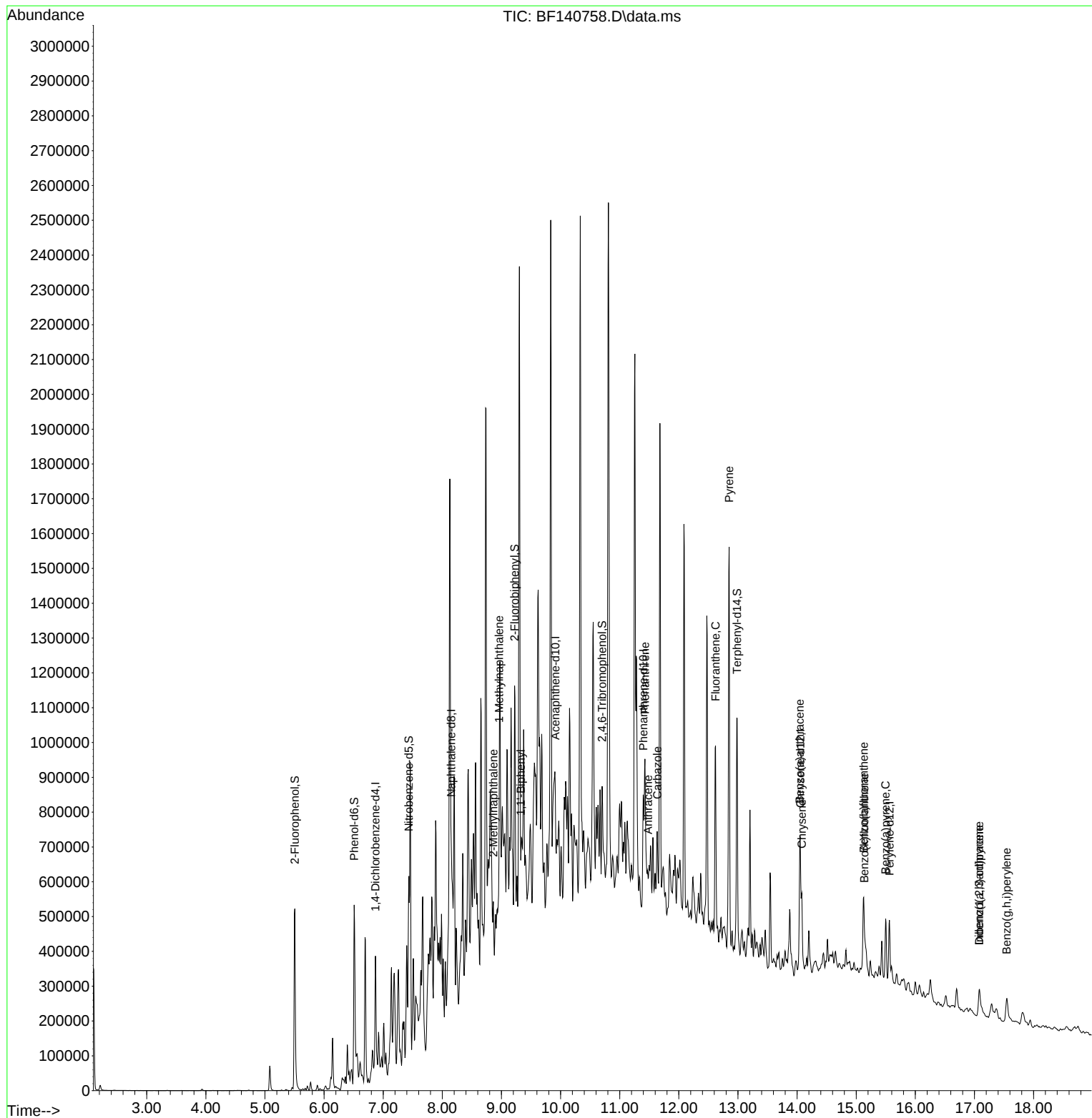
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120524\
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Acq On : 05 Dec 2024 19:29
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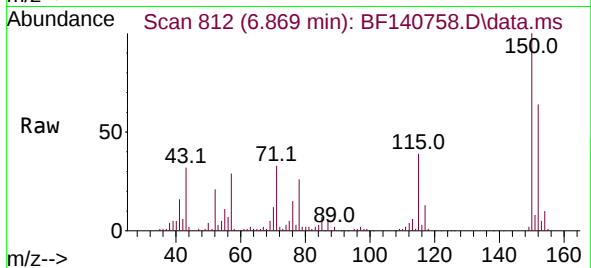
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

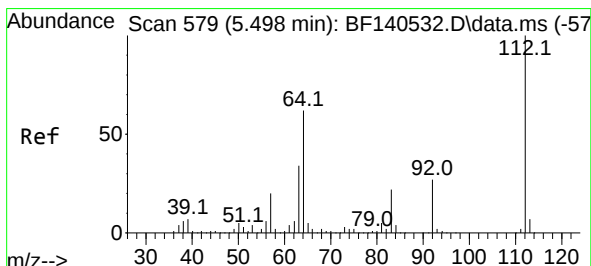
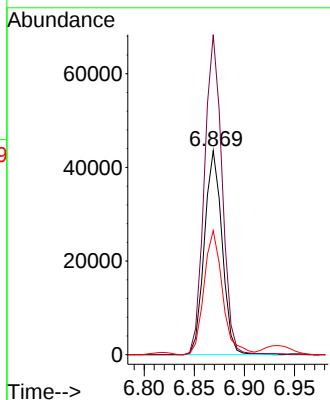
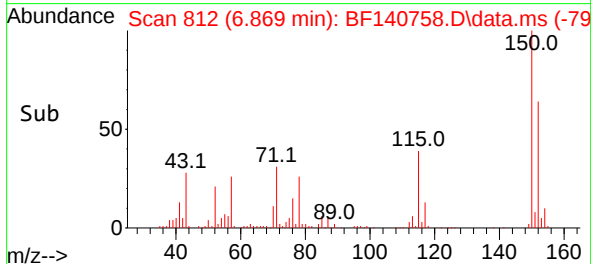
Instrument :
BNA_F
ClientSampleId :
TR-04-12042024



Tgt Ion:152 Resp: 53658
Ion Ratio Lower Upper
152 100
150 156.8 128.5 192.7
115 60.7 50.2 75.4

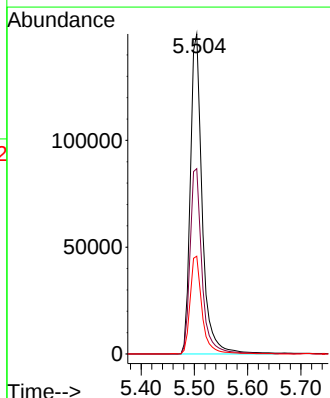
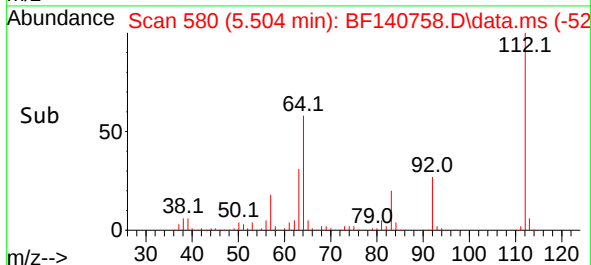
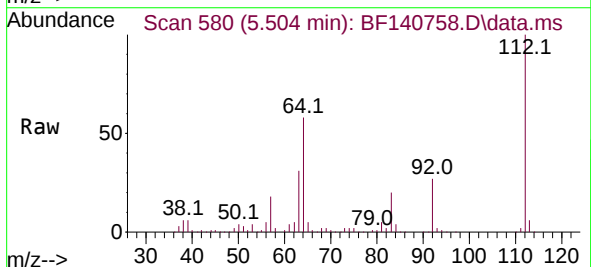
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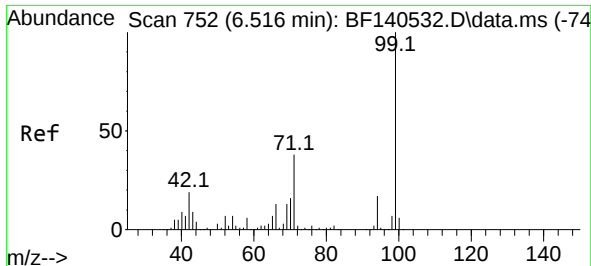
Reviewed By :Yogesh Patel 12/07/2024
Supervised By :mohammad ahmed 12/07/2024



#5
2-Fluorophenol
Concen: 73.832 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

Tgt Ion:112 Resp: 232197
Ion Ratio Lower Upper
112 100
64 57.9 49.2 73.8
63 30.5 27.0 40.4





#7

Phenol-d6

Concen: 67.265 ng

RT: 6.510 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF140758.D

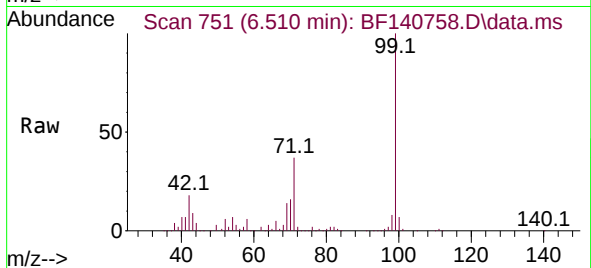
Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

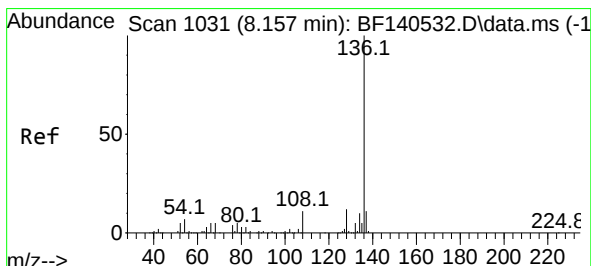
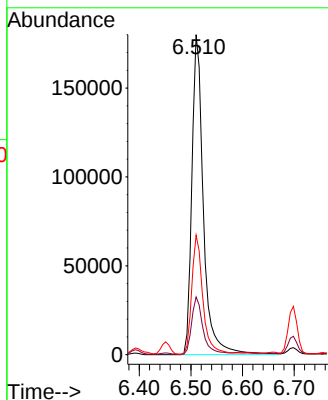
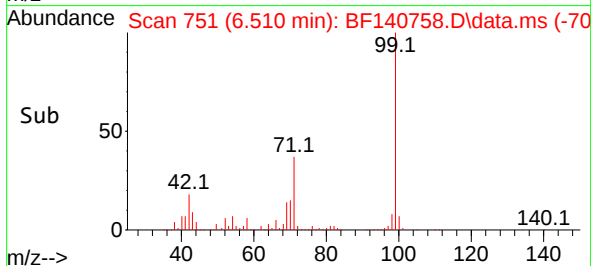


Tgt Ion:	99	Resp:	27966
Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.4	23.0
71	37.3	30.6	46.0

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Supervised By :mohammad ahmed 12/07/2024



#21

Naphthalene-d8

Concen: 20.000 ng

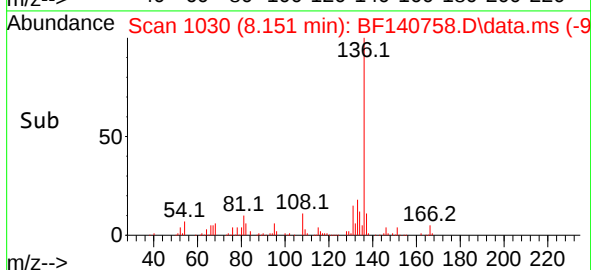
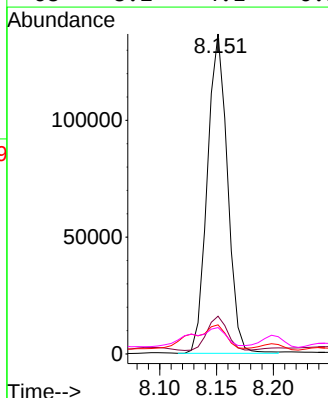
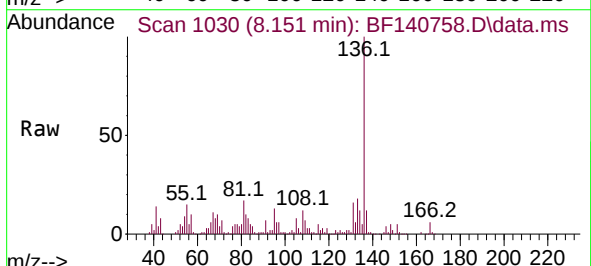
RT: 8.151 min Scan# 1030

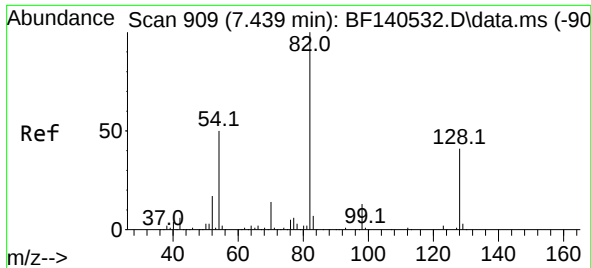
Delta R.T. -0.006 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

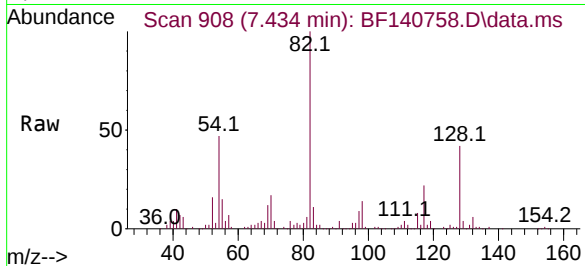
Tgt Ion:	136	Resp:	168105
Ion	Ratio	Lower	Upper
136	100		
137	11.8	8.6	13.0
54	9.1	5.8	8.8#
68	8.2	4.1	6.1#





#23
Nitrobenzene-d5
Concen: 54.632 ng
RT: 7.434 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

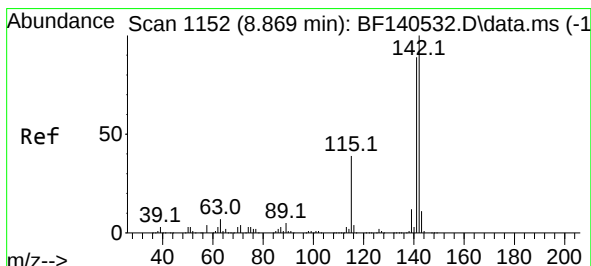
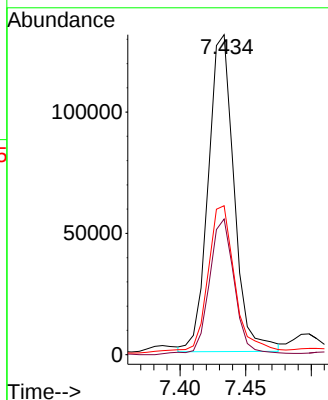
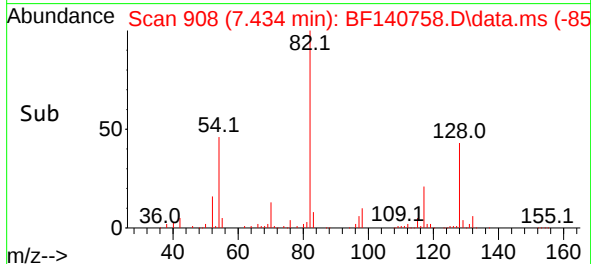
Instrument :
BNA_F
ClientSampleId :
TR-04-12042024



Tgt Ion: 82 Resp: 17954
Ion Ratio Lower Upper
82 100
128 42.4 33.0 49.4
54 46.5 39.5 59.3

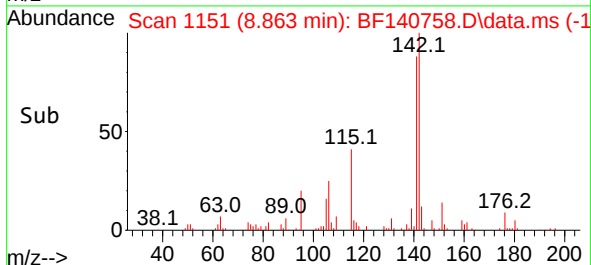
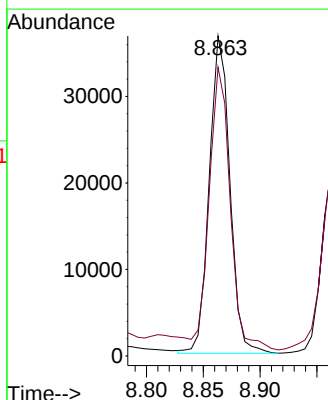
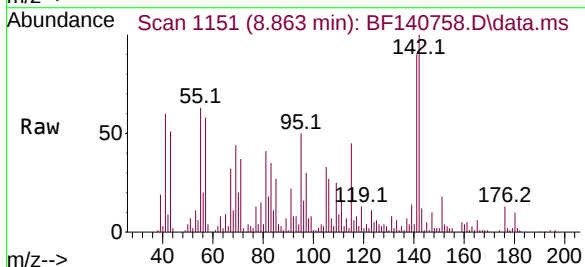
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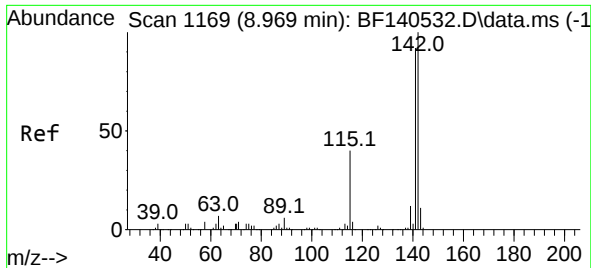
Reviewed By :Yogesh Patel 12/07/2024
Supervised By :mohammad ahmed 12/07/2024



#37
2-Methylnaphthalene
Concen: 8.408 ng
RT: 8.863 min Scan# 1151
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

Tgt Ion:142 Resp: 46243
Ion Ratio Lower Upper
142 100
141 90.2 71.0 106.6





#38
1-Methylnaphthalene
Concen: 5.700 ng
RT: 8.963 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

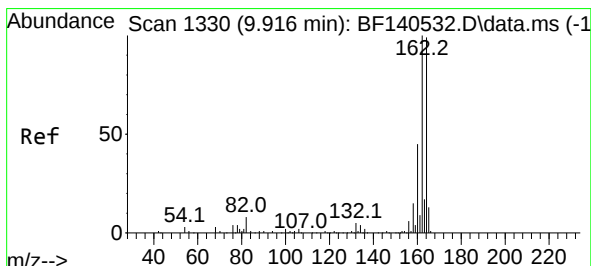
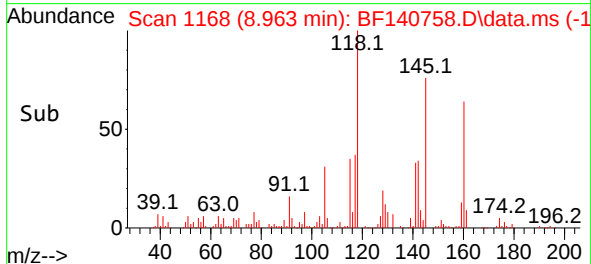
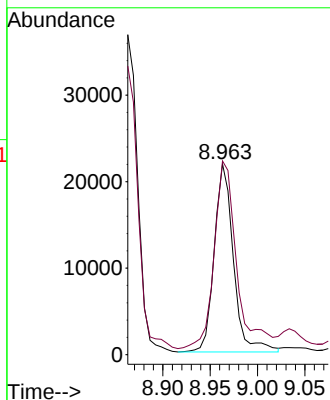
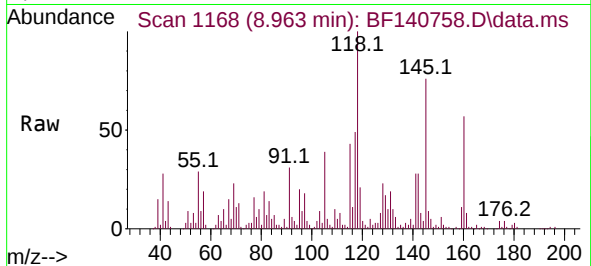
TR-04-12042024

Tgt Ion:142 Resp: 30729
Ion Ratio Lower Upper
142 100
141 101.6 73.3 109.9

Manual Integrations

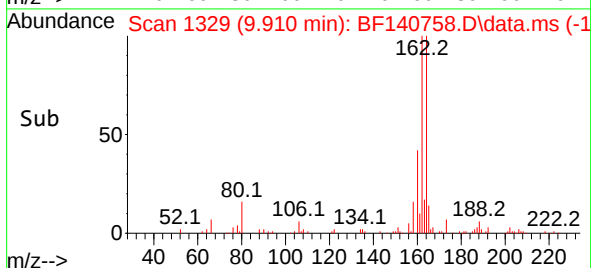
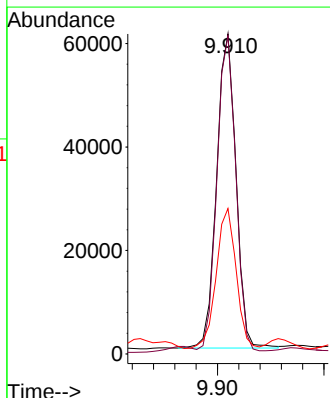
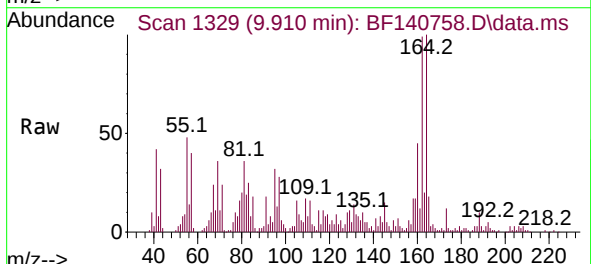
APPROVED

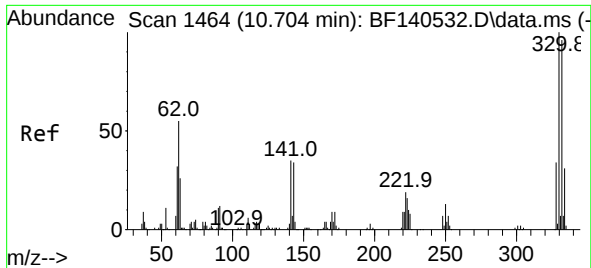
Reviewed By :Yogesh Patel 12/07/2024
Supervised By :mohammad ahmed 12/07/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

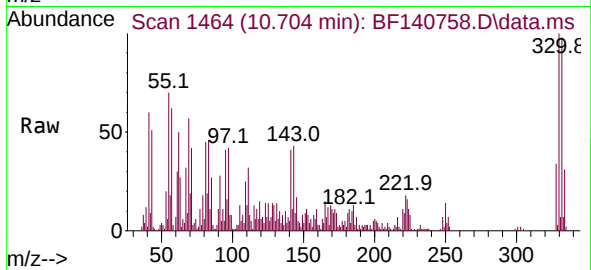
Tgt Ion:164 Resp: 76294
Ion Ratio Lower Upper
164 100
162 99.4 80.6 120.8
160 45.4 36.2 54.4





#42
2,4,6-Tribromophenol
Concen: 63.467 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

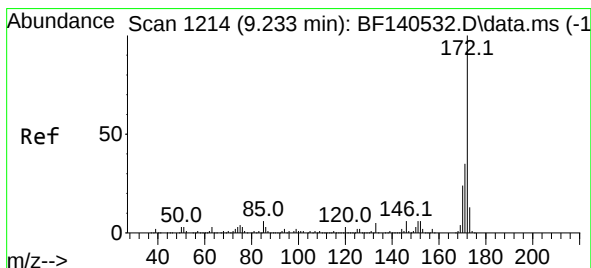
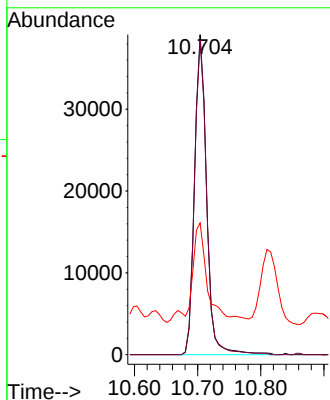
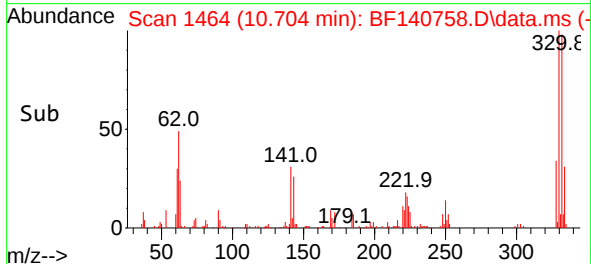
Instrument :
BNA_F
ClientSampleId :
TR-04-12042024



Tgt Ion: 330 Resp: 5178
Ion Ratio Lower Upper
330 100
332 99.0 76.9 115.3
141 32.6 26.7 40.1

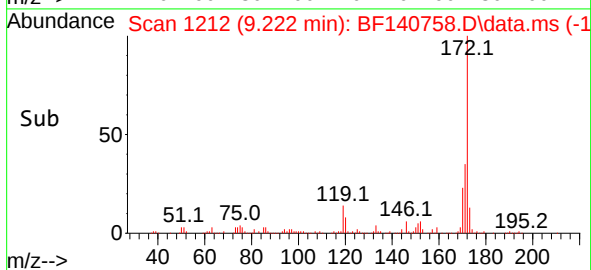
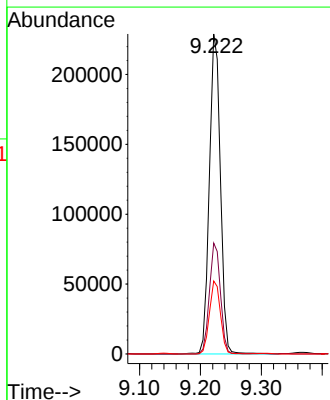
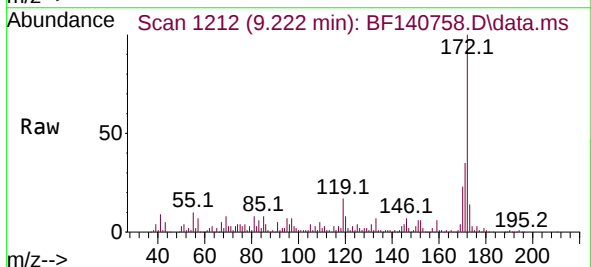
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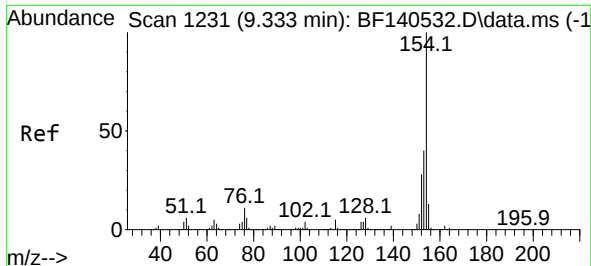
Reviewed By : Yogesh Patel 12/07/2024
Supervised By : mohammad ahmed 12/07/2024



#45
2-Fluorobiphenyl
Concen: 56.317 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

Tgt Ion: 172 Resp: 288377
Ion Ratio Lower Upper
172 100
171 34.6 28.4 42.6
170 22.8 19.0 28.6





#46
1,1'-Biphenyl
Concen: 4.256 ng
RT: 9.328 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

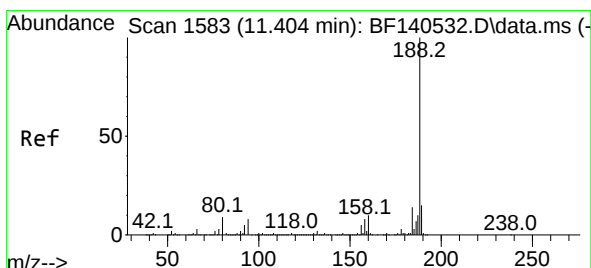
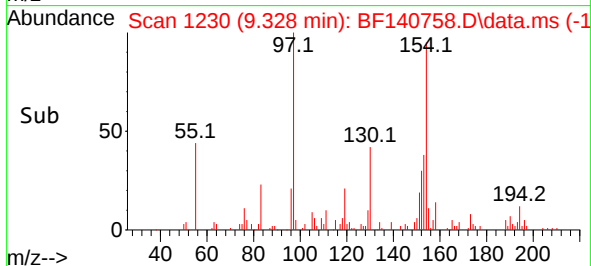
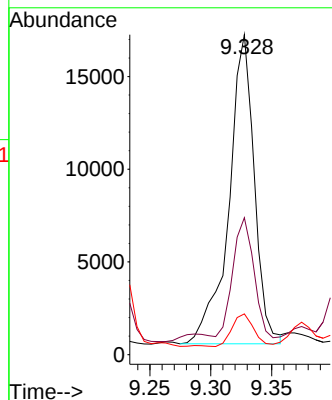
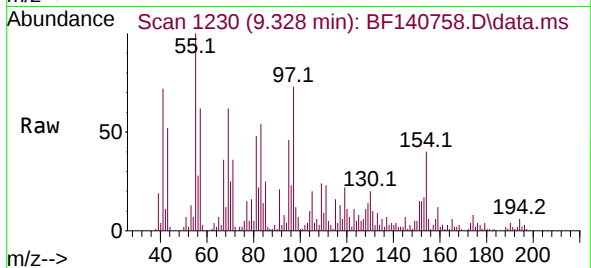
TR-04-12042024

Tgt Ion:154 Resp: 2424
Ion Ratio Lower Upper
154 100
153 42.8 20.4 60.4
76 12.8 0.0 31.2

Manual Integrations

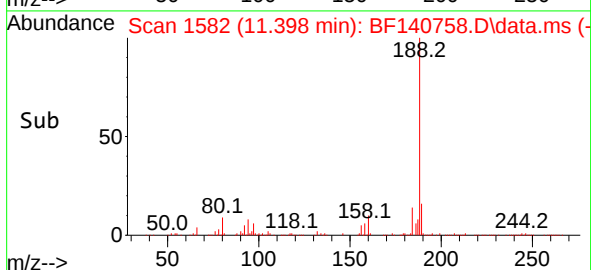
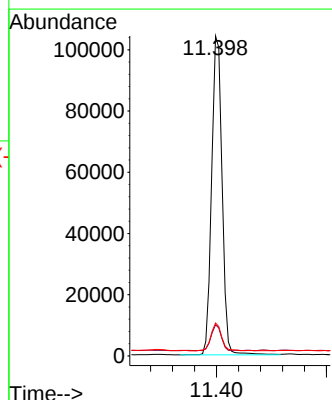
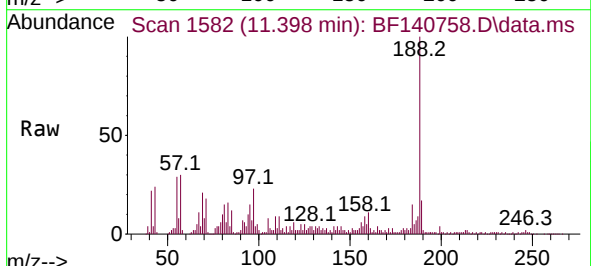
APPROVED

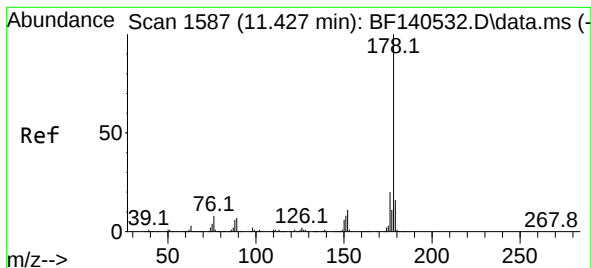
Reviewed By :Yogesh Patel 12/07/2024
Supervised By :mohammad ahmed 12/07/2024



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

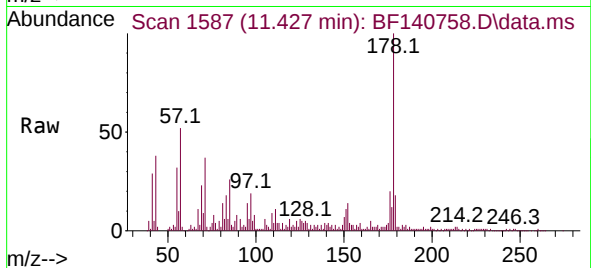
Tgt Ion:188 Resp: 137445
Ion Ratio Lower Upper
188 100
94 9.7 6.4 9.6#
80 10.3 6.9 10.3#





#71
Phenanthrene
Concen: 21.183 ng
RT: 11.427 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29

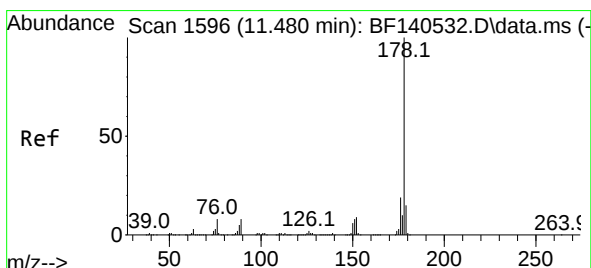
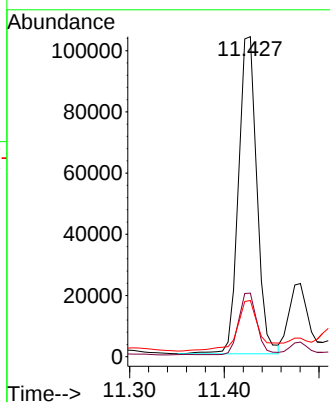
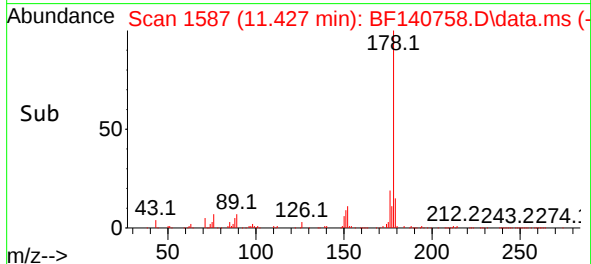
Instrument :
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ClientSampleId :
TR-04-12042024



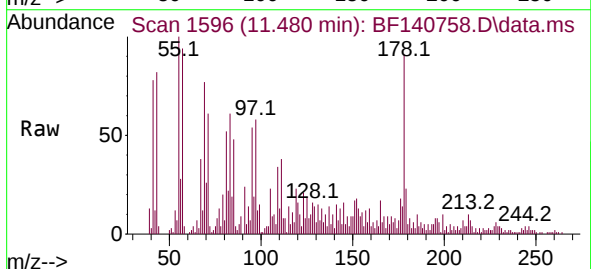
Tgt Ion:178 Resp: 139952
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.6
179 17.5 12.4 18.6

Manual Integrations
APPROVED

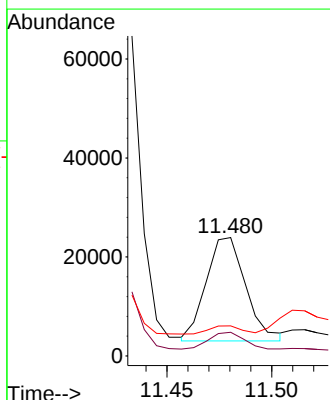
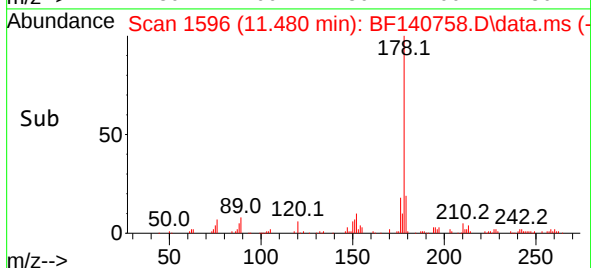
Reviewed By :Yogesh Patel 12/07/2024
Supervised By :mohammad ahmed 12/07/2024

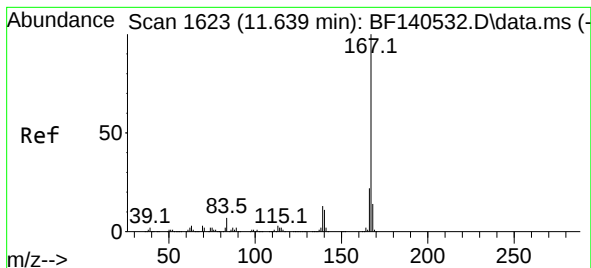


#72
Anthracene
Concen: 4.278 ng m
RT: 11.480 min Scan# 1596
Delta R.T. 0.000 min
Lab File: BF140758.D
Acq: 05 Dec 2024 19:29



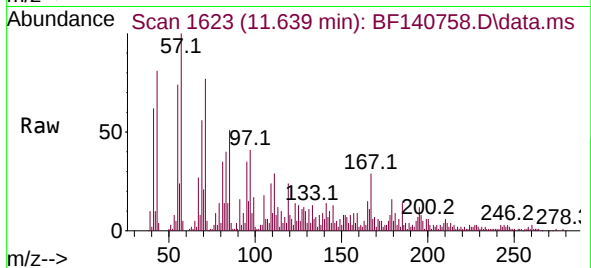
Tgt Ion:178 Resp: 27650
Ion Ratio Lower Upper
178 100
176 19.9 15.0 22.4
179 25.4 12.2 18.4#





#73
 Carbazole
 Concen: 2.244 ng
 RT: 11.639 min Scan# 1623
 Delta R.T. 0.000 min
 Lab File: BF140758.D
 Acq: 05 Dec 2024 19:29

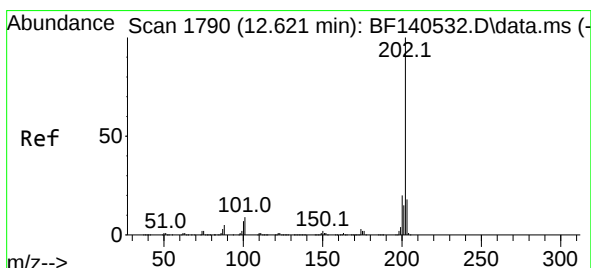
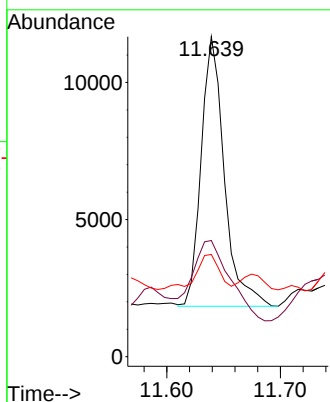
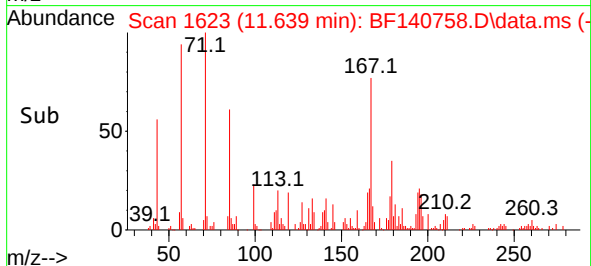
Instrument :
 BNA_F
 ClientSampleId :
 TR-04-12042024



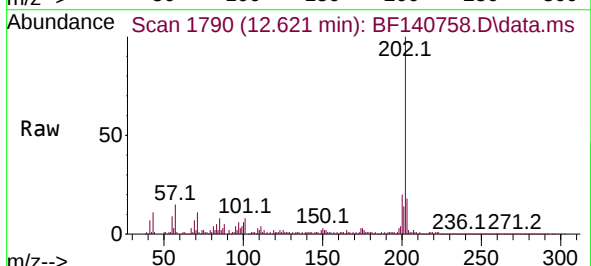
Tgt Ion:167 Resp: 1395
 Ion Ratio Lower Upper
 167 100
 166 36.3 17.2 25.8
 139 32.0 10.6 15.8

Manual Integrations
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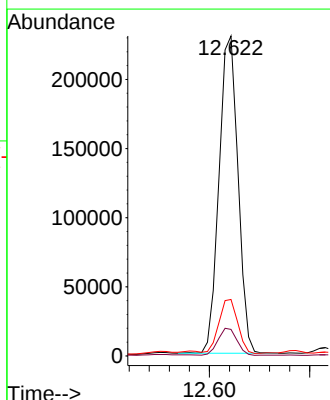
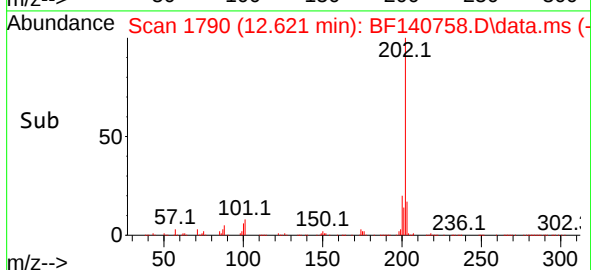
Reviewed By :Yogesh Patel 12/07/2024
 Supervised By :mohammad ahmed 12/07/2024

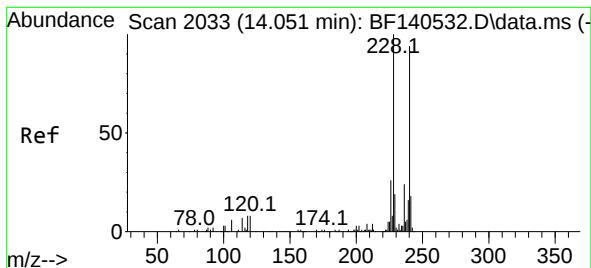


#75
 Fluoranthene
 Concen: 41.987 ng
 RT: 12.621 min Scan# 1790
 Delta R.T. 0.000 min
 Lab File: BF140758.D
 Acq: 05 Dec 2024 19:29



Tgt Ion:202 Resp: 301189
 Ion Ratio Lower Upper
 202 100
 101 8.3 0.0 28.9
 203 17.7 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

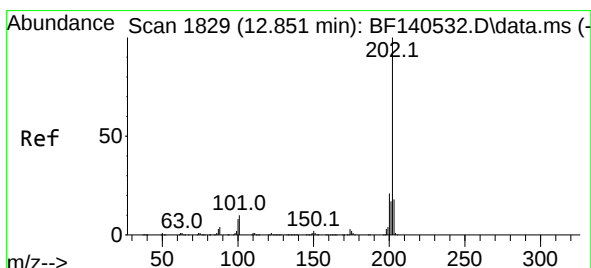
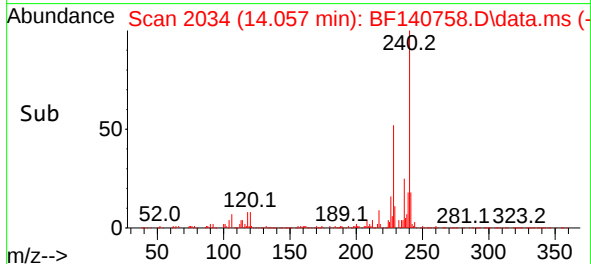
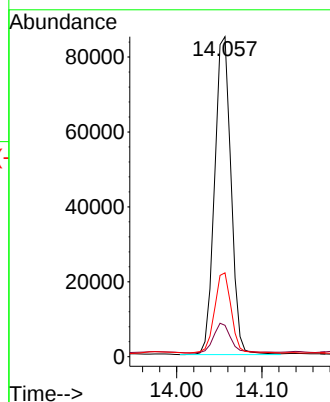
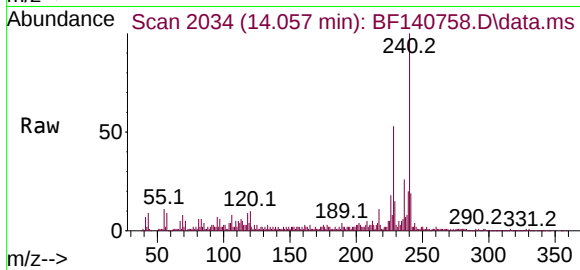
Tgt Ion:240 Resp: 113590
 Ion Ratio Lower Upper
 240 100
 120 9.8 7.3 10.9
 236 26.2 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2024

Supervised By :mohammad ahmed 12/07/2024



#78

Pyrene

Concen: 30.813 ng

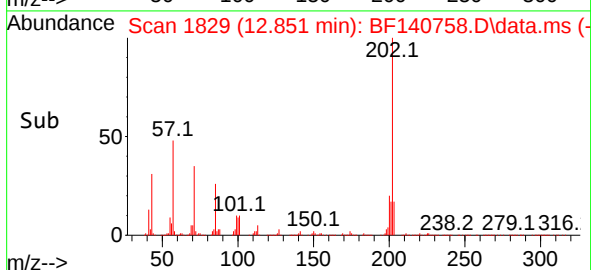
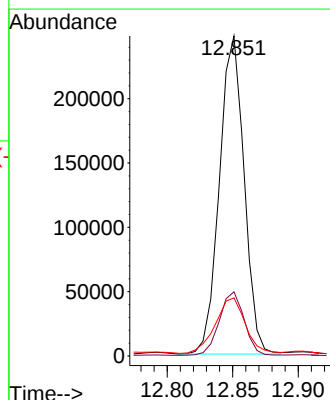
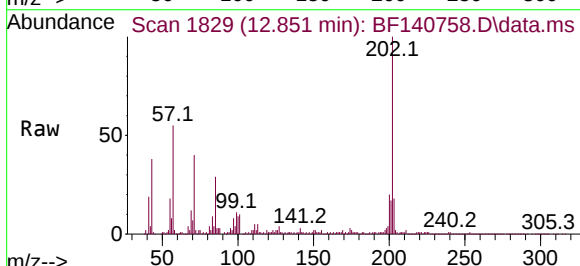
RT: 12.851 min Scan# 1829

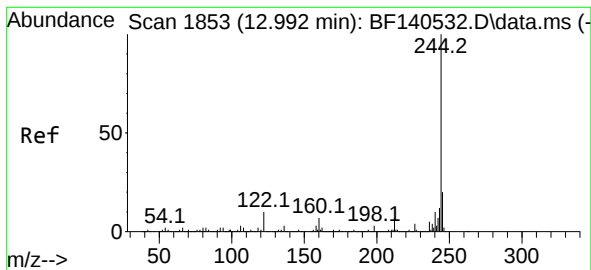
Delta R.T. 0.000 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Tgt Ion:202 Resp: 323621
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.5 24.7
 203 18.2 14.2 21.4





#79

Terphenyl-d14

Concen: 43.256 ng

RT: 12.986 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

Tgt Ion:244 Resp: 315540

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

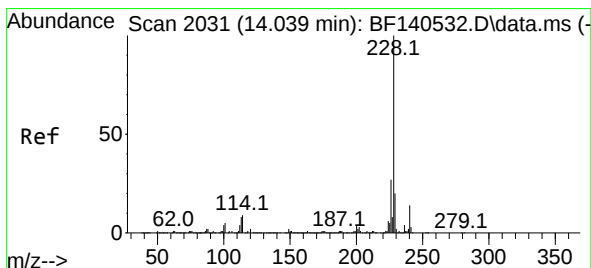
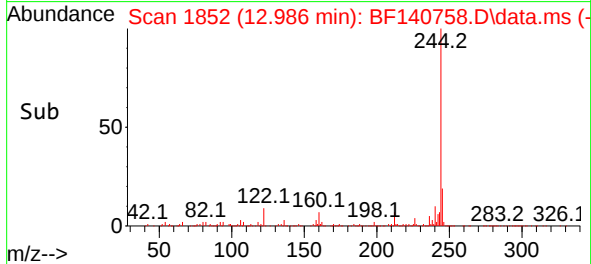
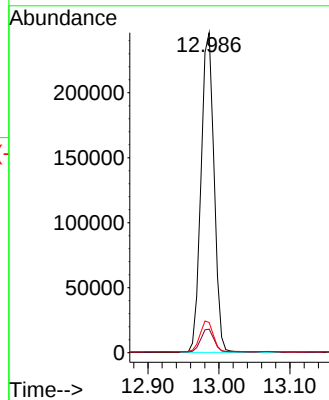
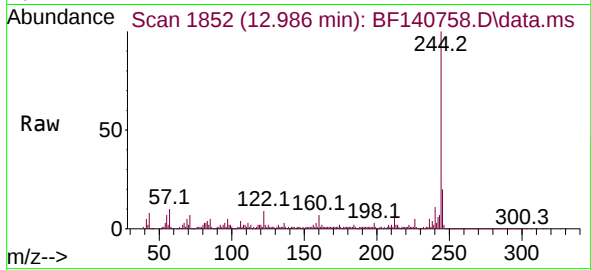
122 9.4 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2024

Supervised By :mohammad ahmed 12/07/2024



#81

Benzo(a)anthracene

Concen: 18.713 ng

RT: 14.045 min Scan# 2032

Delta R.T. 0.006 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

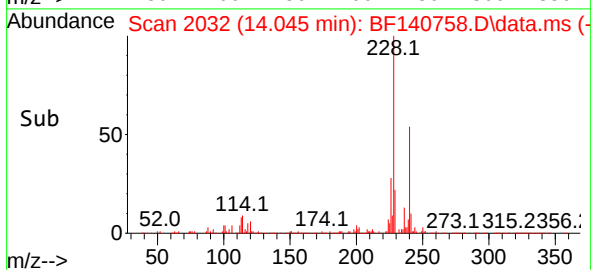
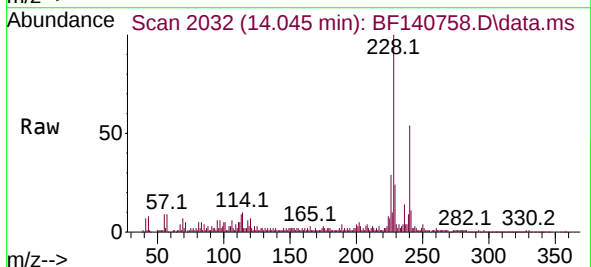
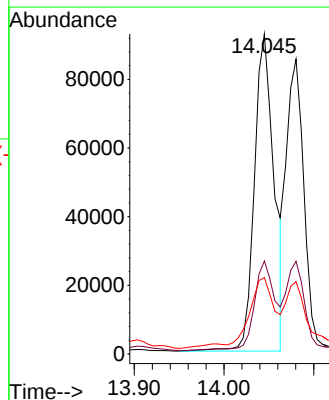
Tgt Ion:228 Resp: 140708

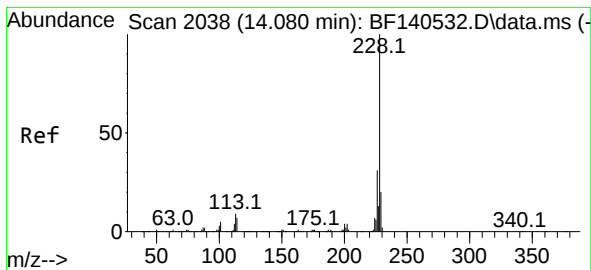
Ion Ratio Lower Upper

228 100

226 29.1 21.8 32.8

229 23.8 15.8 23.6#





#83

Chrysene

Concen: 16.713 ng

RT: 14.080 min Scan# 2038

Delta R.T. 0.000 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

Tgt Ion:228 Resp: 11491

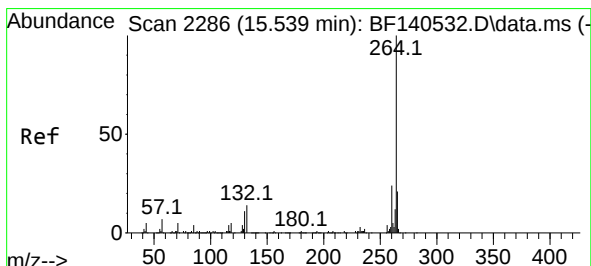
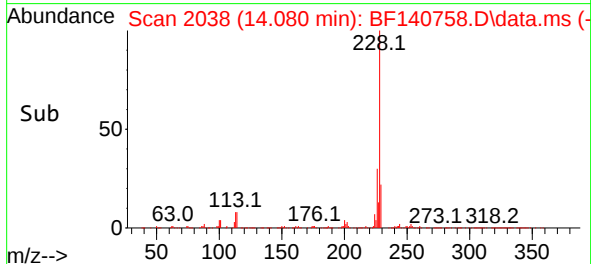
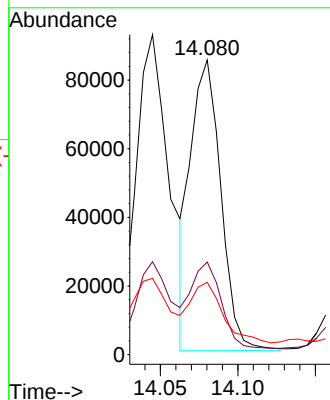
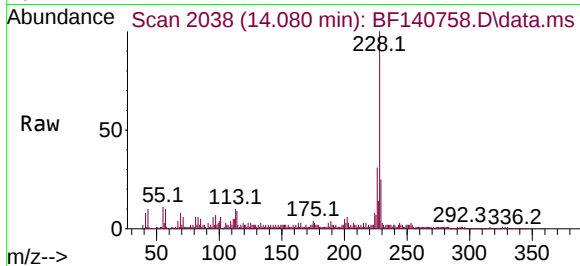
Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.4	36.6
229	24.6	15.8	23.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/07/2024

Supervised By :mohammad ahmed 12/07/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 2290

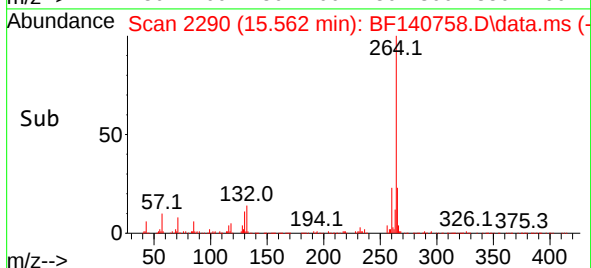
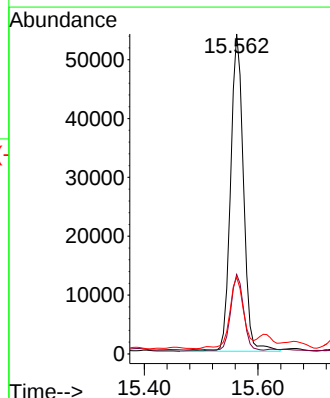
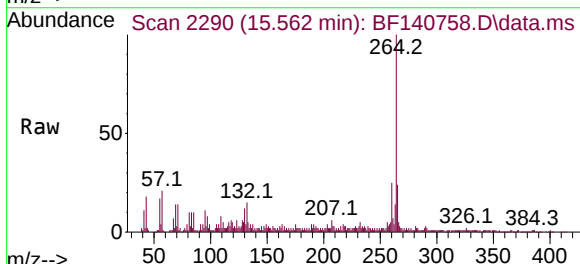
Delta R.T. 0.024 min

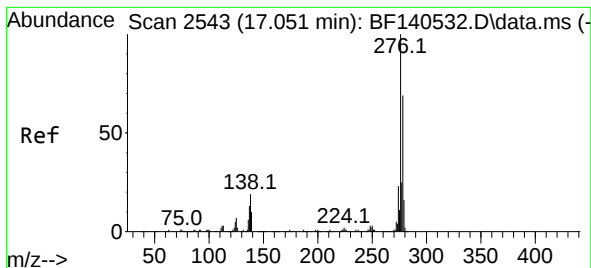
Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Tgt Ion:264 Resp: 84812

Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.0	28.6
265	24.0	16.6	25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.803 ng

RT: 17.080 min Scan# 2116

Delta R.T. 0.029 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

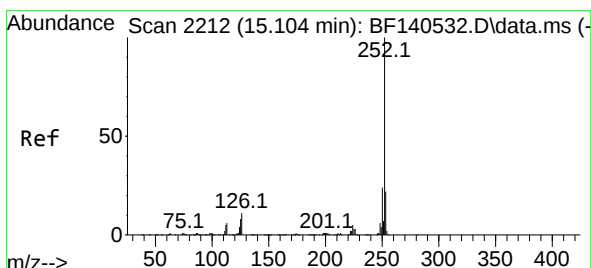
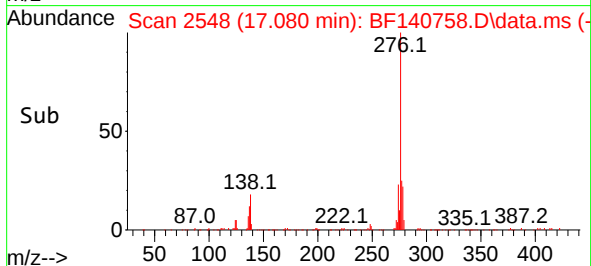
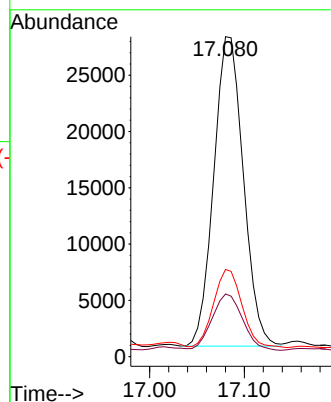
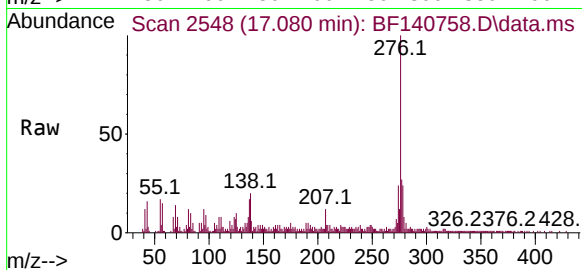
Tgt Ion:	276	Resp:	59710
Ion Ratio	Lower	Upper	
276	100		
138	18.8	15.5	23.3
277	24.4	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2024

Supervised By :mohammad ahmed 12/07/2024



#88

Benzo(b)fluoranthene

Concen: 26.666 ng m

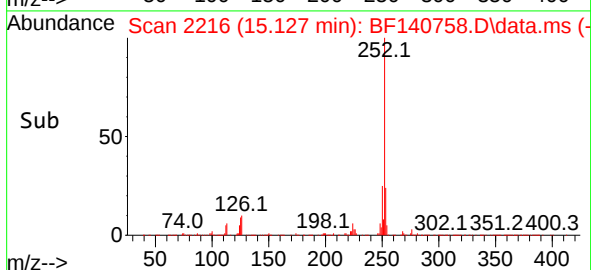
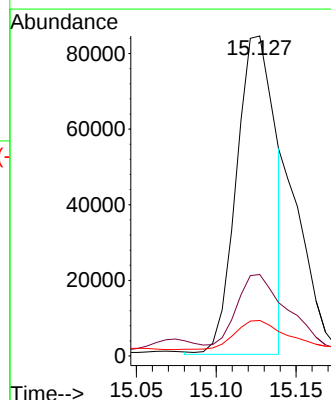
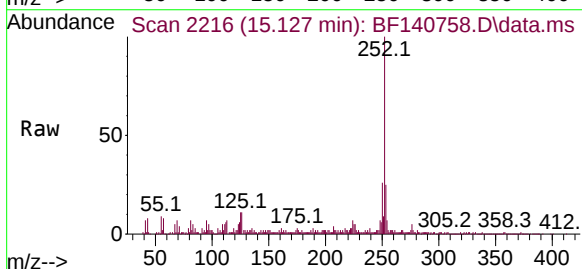
RT: 15.127 min Scan# 2216

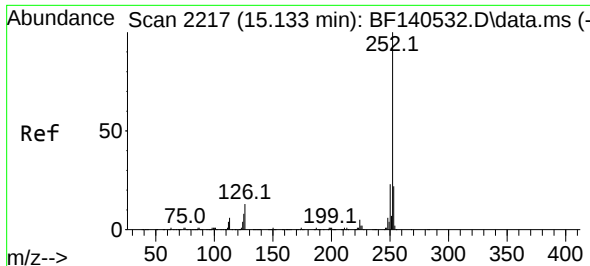
Delta R.T. 0.024 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Tgt Ion:	252	Resp:	142054
Ion Ratio	Lower	Upper	
252	100		
253	25.5	17.2	25.8
125	11.1	6.7	10.1





#89

Benzo(k)fluoranthene

Concen: 10.521 ng m

RT: 15.139 min Scan# 2217

Delta R.T. 0.006 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

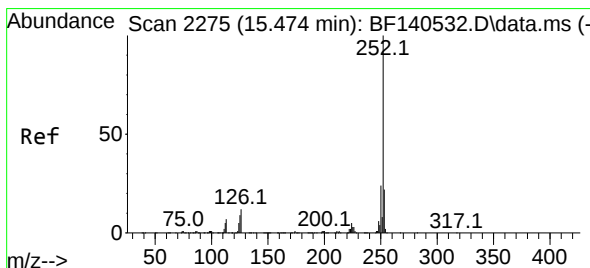
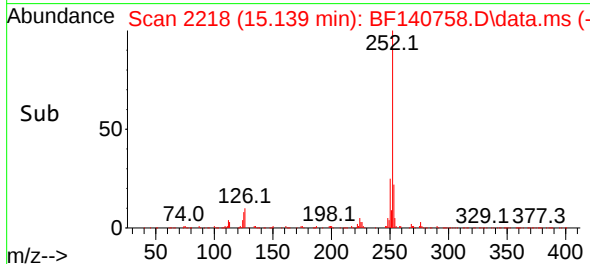
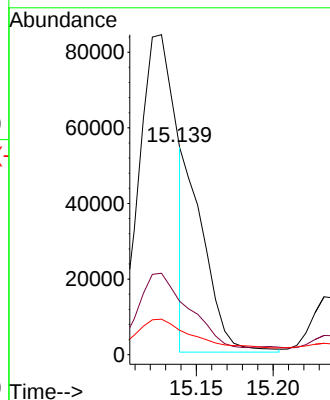
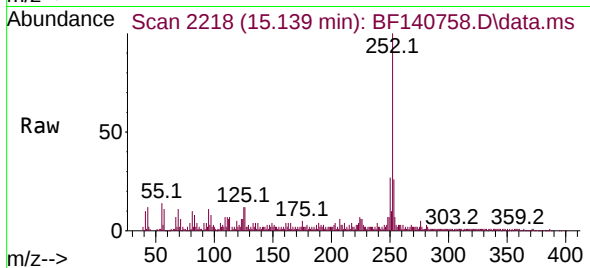
Tgt Ion:252 Resp: 49044
 Ion Ratio Lower Upper
 252 100
 253 25.8 17.5 26.3
 125 11.8 6.5 9.7

Manual Integrations

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Reviewed By :Yogesh Patel 12/07/2024

Supervised By :mohammad ahmed 12/07/2024



#90

Benzo(a)pyrene

Concen: 24.755 ng

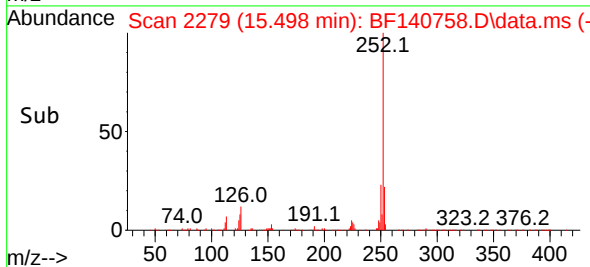
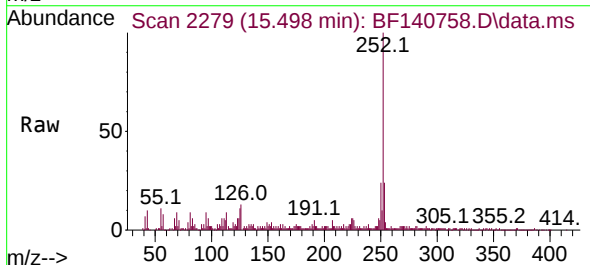
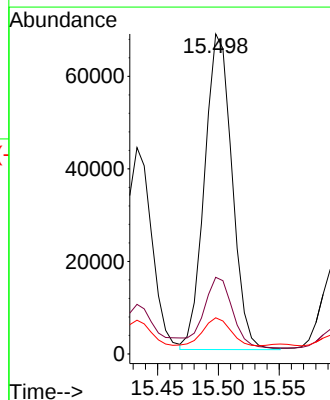
RT: 15.498 min Scan# 2279

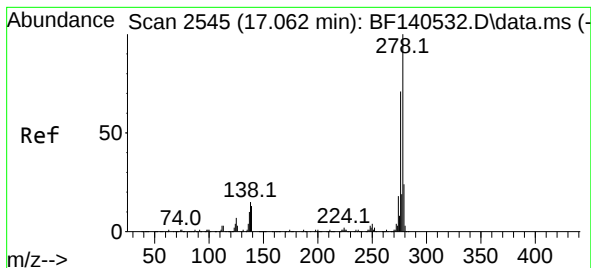
Delta R.T. 0.024 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Tgt Ion:252 Resp: 107224
 Ion Ratio Lower Upper
 252 100
 253 24.0 17.3 25.9
 125 11.3 7.0 10.6





#91

Dibenzo(a,h)anthracene

Concen: 3.309 ng

RT: 17.080 min Scan# 2545

Delta R.T. 0.018 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Instrument :

BNA_F

ClientSampleId :

TR-04-12042024

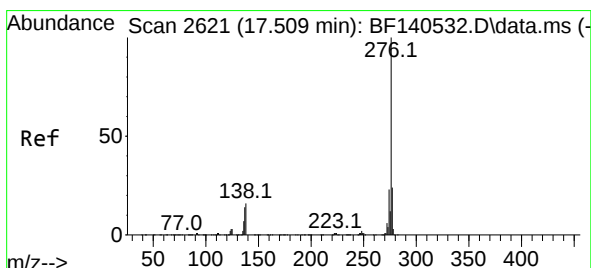
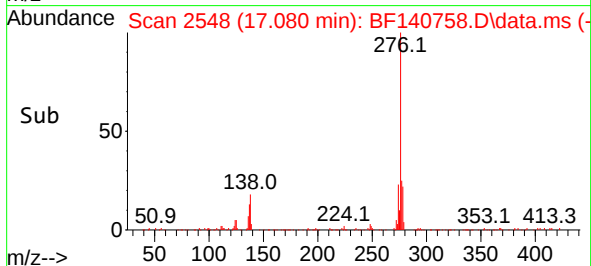
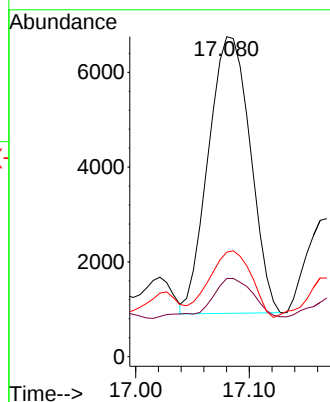
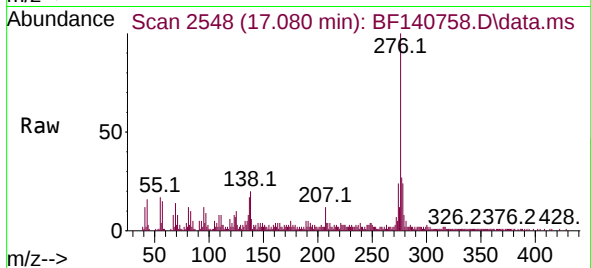
Tgt Ion:	278	Resp:	14976
Ion Ratio	Lower	Upper	
278	100		
139	24.5	10.2	15.4
279	32.6	18.9	28.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2024

Supervised By :mohammad ahmed 12/07/2024



#92

Benzo(g,h,i)perylene

Concen: 12.573 ng

RT: 17.545 min Scan# 2627

Delta R.T. 0.035 min

Lab File: BF140758.D

Acq: 05 Dec 2024 19:29

Tgt Ion:	276	Resp:	58076
Ion Ratio	Lower	Upper	
276	100		
277	24.8	18.9	28.3
138	17.8	13.2	19.8

