

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
 Data File : BF138749.D
 Acq On : 02 Aug 2024 16:10
 Operator : RC/JU
 Sample : P3414-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07312024-A

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/03/2024
 Supervised By :mohammad ahmed 08/03/2024

Quant Time: Aug 02 16:35:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 30 17:50:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	49455	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	164357	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	83404	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	166741	20.000	ng	0.00
76) Chrysene-d12	14.016	240	101772	20.000	ng	0.01
86) Perylene-d12	15.486	264	88042	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	144604	45.136	ng	0.00
7) Phenol-d6	6.481	99	169736	39.461	ng	0.00
23) Nitrobenzene-d5	7.404	82	103938	30.918	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	33343	48.805	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	176911	31.870	ng	0.00
79) Terphenyl-d14	12.951	244	236316	38.877	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.145	128	25364	2.932	ng	98
37) 2-Methylnaphthalene	8.839	142	13353	2.444	ng	98
38) 1-Methylnaphthalene	8.934	142	13652	2.550	ng	96
49) Acenaphthylene	9.739	152	132379	19.213	ng	99
52) Acenaphthene	9.910	154	19000	4.102	ng	95
55) Dibenzofuran	10.081	168	25877	3.958	ng	# 91
58) Fluorene	10.428	166	57517	11.047	ng	# 95
71) Phenanthrene	11.398	178	843311	98.221	ng	99
72) Anthracene	11.445	178	232706	27.512	ng	100
73) Carbazole	11.598	167	30408	4.167	ng	95
75) Fluoranthene	12.592	202	1856427	231.608	ng	98
78) Pyrene	12.827	202	1721377	179.644	ng	98
81) Benzo(a)anthracene	14.010	228	863252	123.177	ng	95
83) Chrysene	14.045	228	628977	99.478	ng	96
87) Indeno(1,2,3-cd)pyrene	16.968	276	287779	45.611	ng	93
88) Benzo(b)fluoranthene	15.063	252	753022m	137.973	ng	
89) Benzo(k)fluoranthene	15.080	252	218598m	46.260	ng	
90) Benzo(a)pyrene	15.427	252	521045	113.499	ng	97
91) Dibenzo(a,h)anthracene	16.968	278	73633	14.217	ng	# 76
92) Benzo(g,h,i)perylene	17.415	276	258166	48.035	ng	99

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

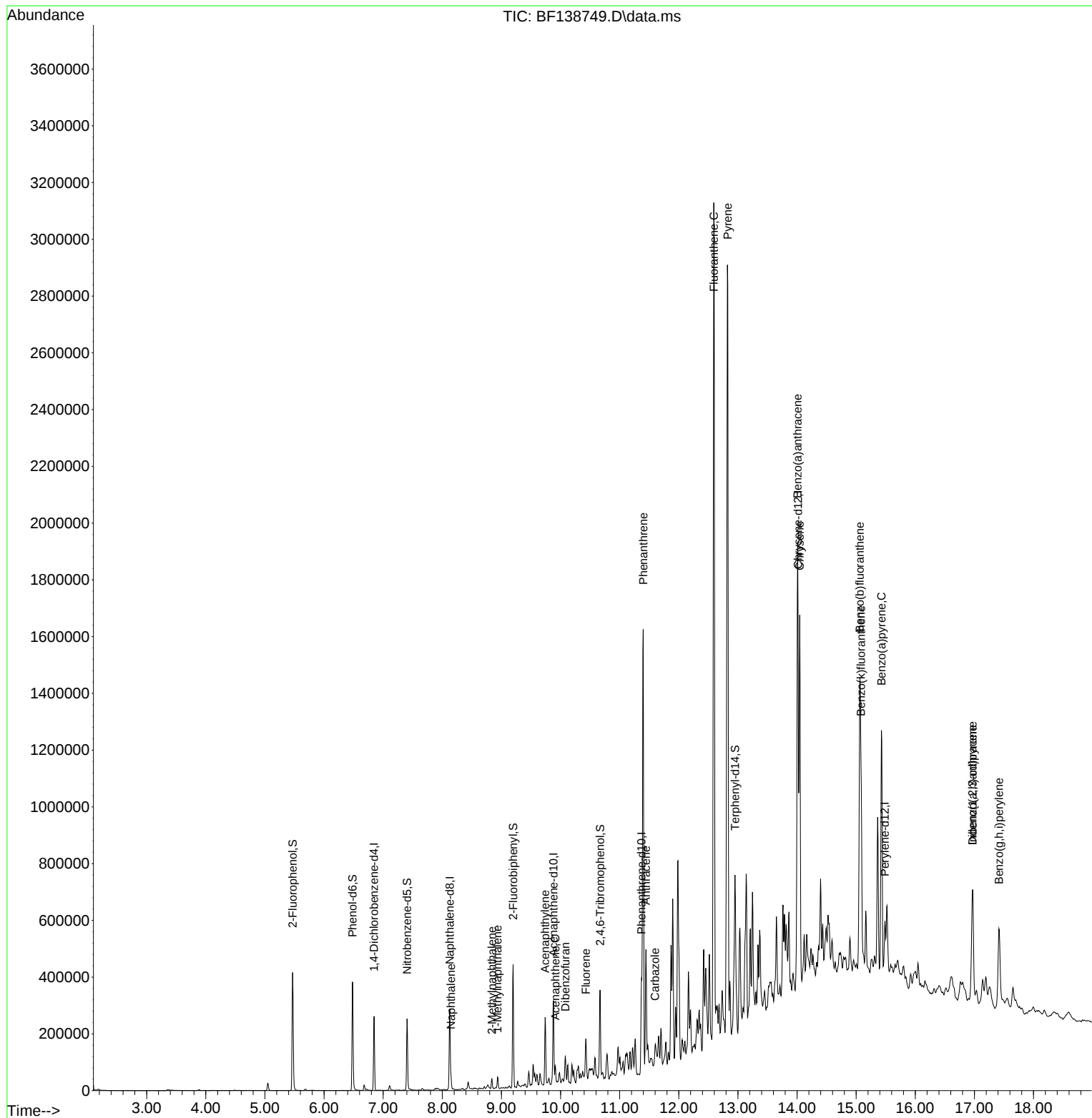
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
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QLast Update : Tue Jul 30 17:50:01 2024
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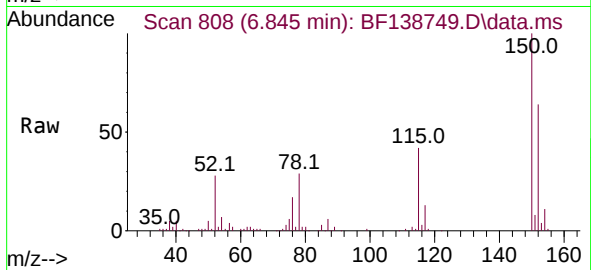
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 808
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

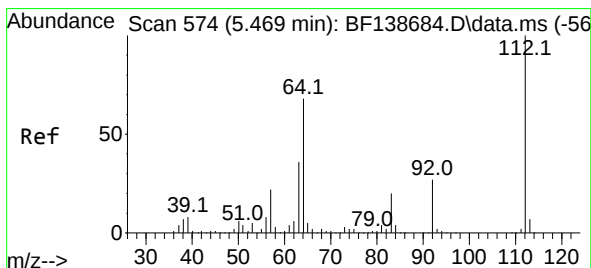
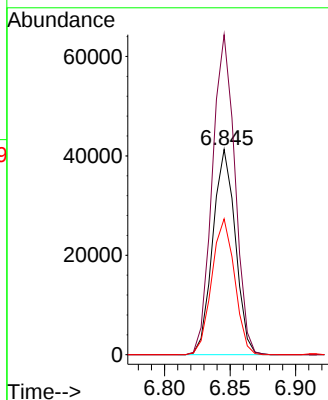
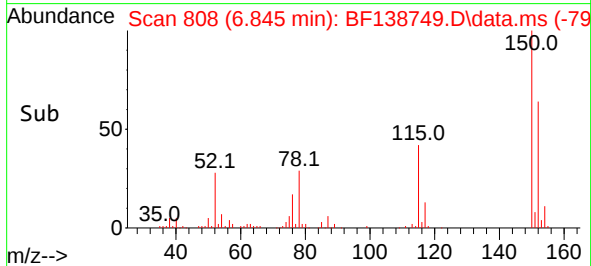
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:152 Resp: 4945
Ion Ratio Lower Upper
152 100
150 155.9 126.0 189.0
115 66.2 51.7 77.5

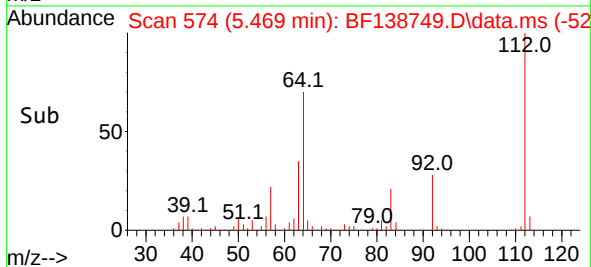
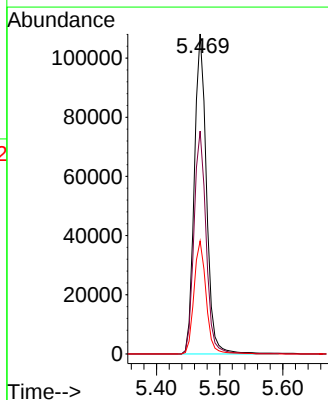
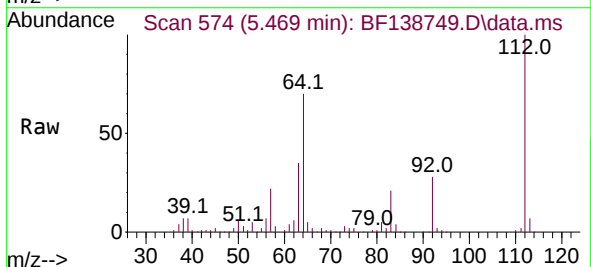
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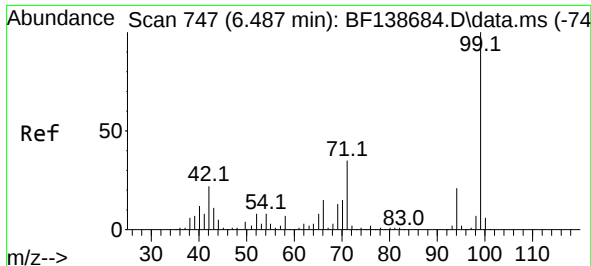
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#5
2-Fluorophenol
Concen: 45.136 ng
RT: 5.469 min Scan# 574
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

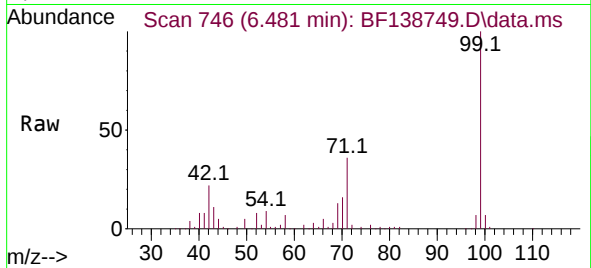
Tgt Ion:112 Resp: 144604
Ion Ratio Lower Upper
112 100
64 69.7 54.2 81.4
63 35.3 28.7 43.1





#7
Phenol-d6
Concen: 39.461 ng
RT: 6.481 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

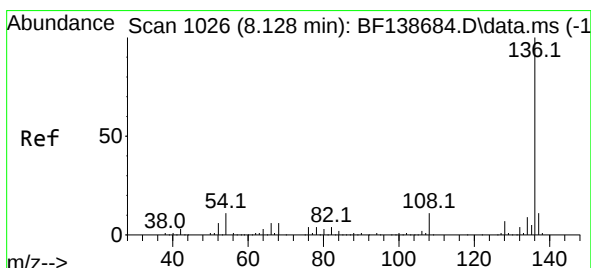
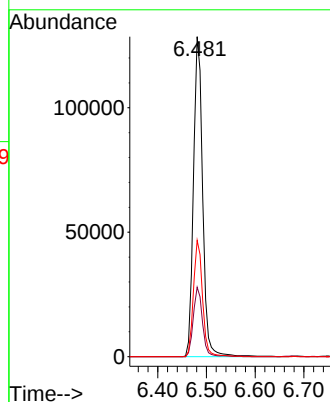
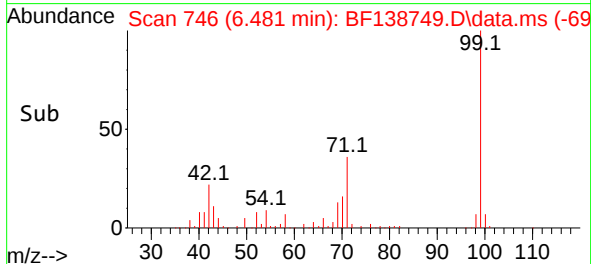
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion: 99 Resp: 169730
Ion Ratio Lower Upper
99 100
42 21.7 17.4 26.0
71 36.4 28.1 42.1

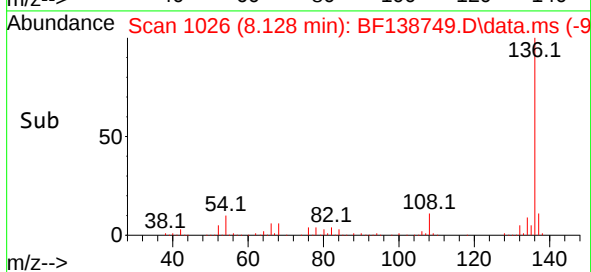
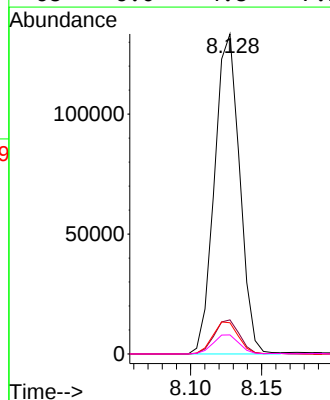
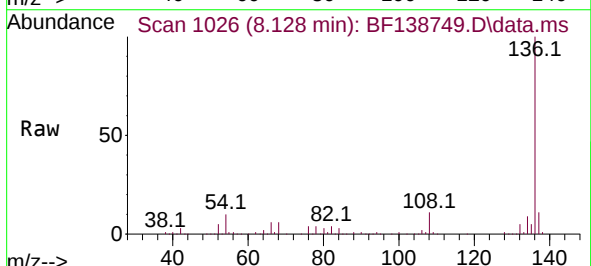
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

Tgt Ion:136 Resp: 164357
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 9.7 8.6 12.8
68 6.0 4.8 7.2





#23

Nitrobenzene-d5

Concen: 30.918 ng

RT: 7.404 min Scan# 904

Delta R.T. -0.006 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-A

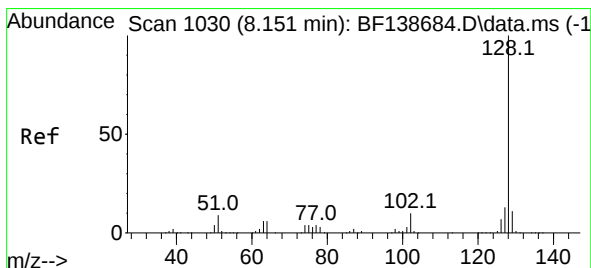
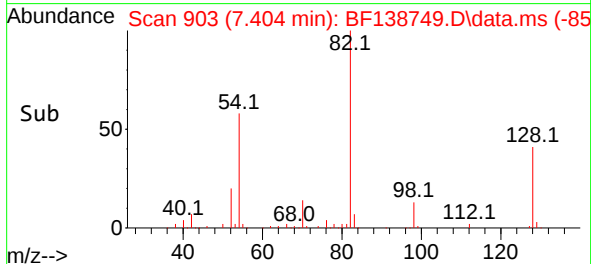
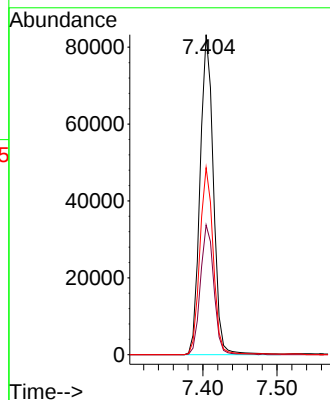
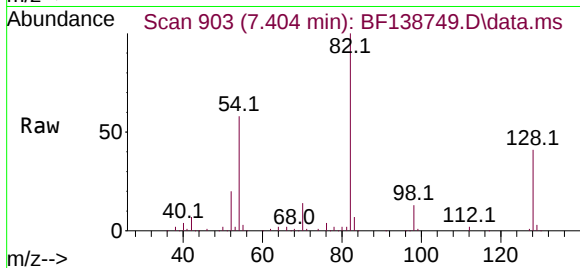
Tgt Ion: 82 Resp: 103938

Ion	Ratio	Lower	Upper
82	100		
128	40.5	32.8	49.2
54	58.4	48.3	72.5

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Supervised By :mohammad ahmed 08/03/2024



#31

Naphthalene

Concen: 2.932 ng

RT: 8.145 min Scan# 1029

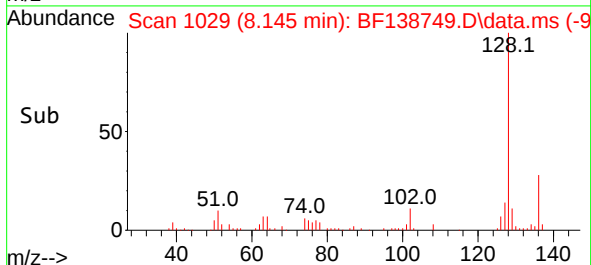
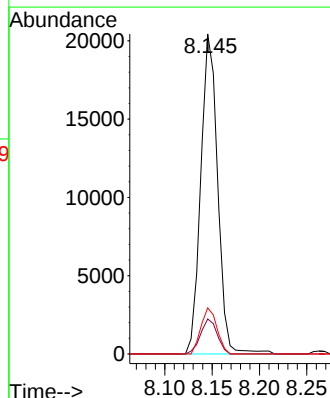
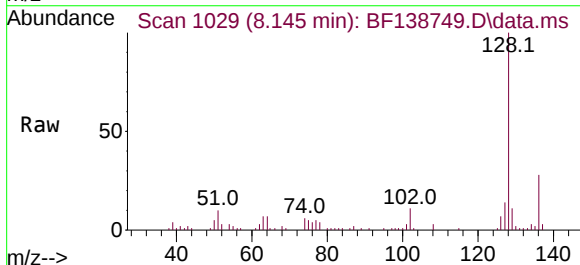
Delta R.T. -0.006 min

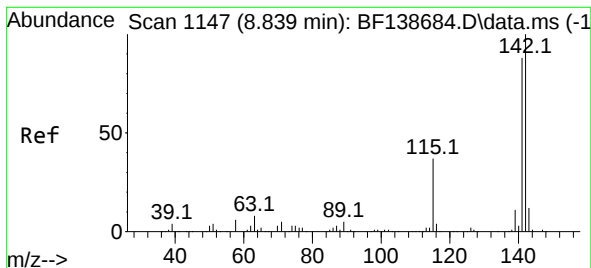
Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Tgt Ion:128 Resp: 25364

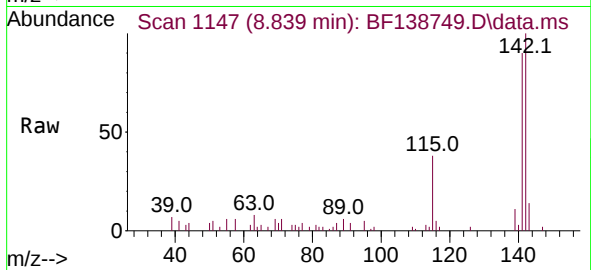
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	14.4	10.6	16.0





#37
2-Methylnaphthalene
Concen: 2.444 ng
RT: 8.839 min Scan# 1147
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

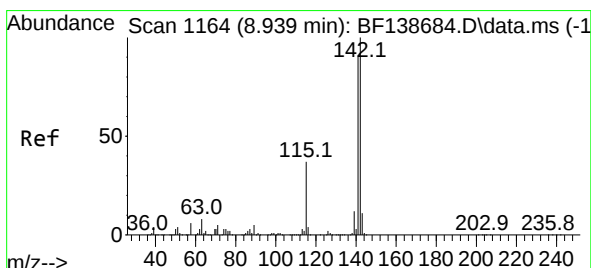
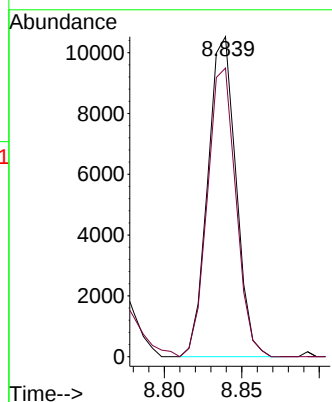
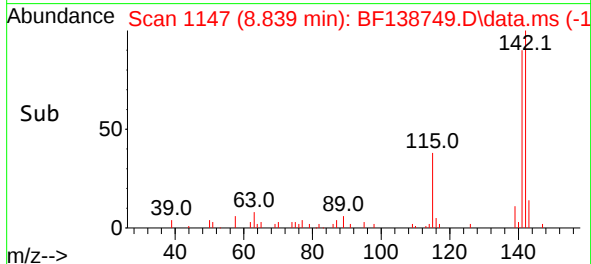
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



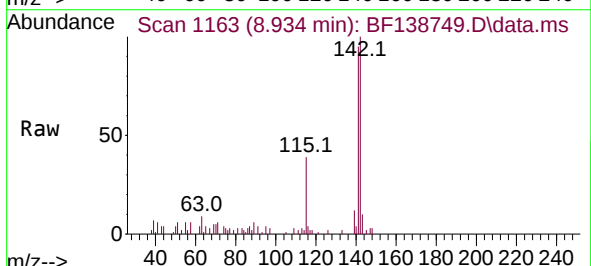
Tgt Ion:142 Resp: 1335
Ion Ratio Lower Upper
142 100
141 90.2 70.8 106.2

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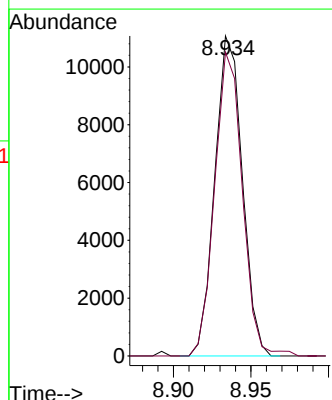
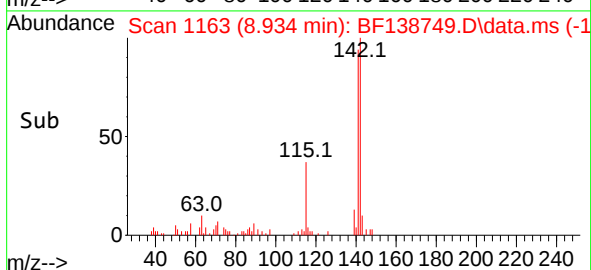
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024

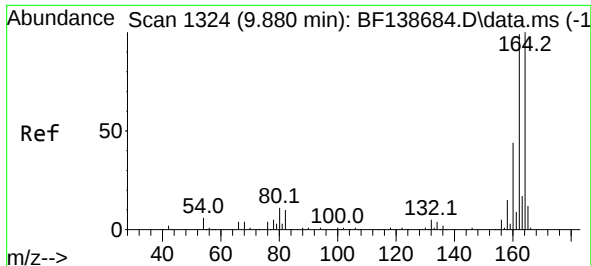


#38
1-Methylnaphthalene
Concen: 2.550 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10



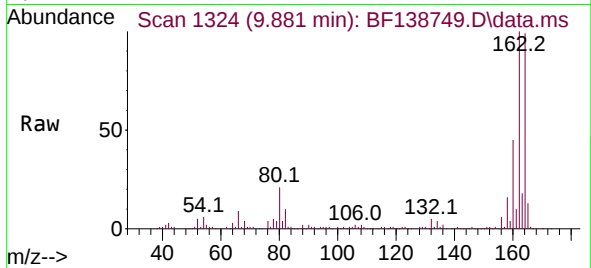
Tgt Ion:142 Resp: 13652
Ion Ratio Lower Upper
142 100
141 95.0 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1324
Delta R.T. 0.001 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

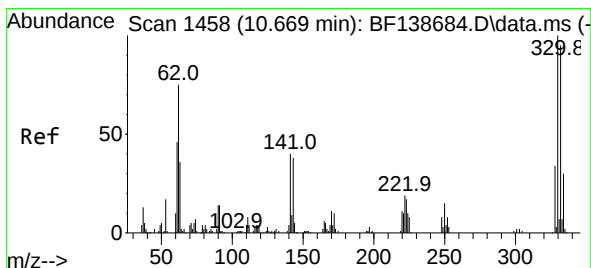
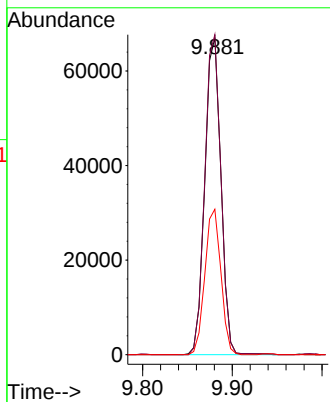
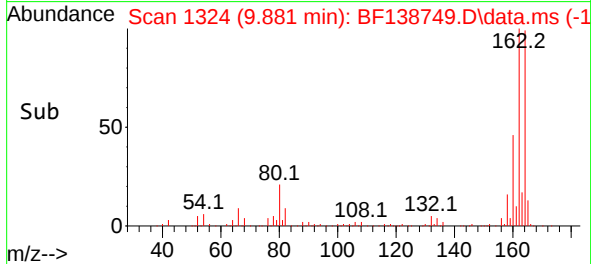
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:164 Resp: 83404
Ion Ratio Lower Upper
164 100
162 101.0 79.4 119.0
160 45.9 35.1 52.7

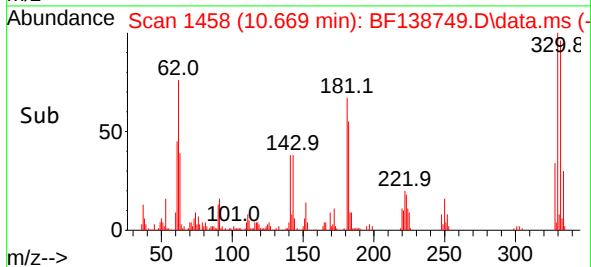
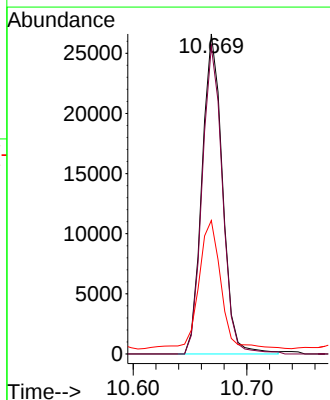
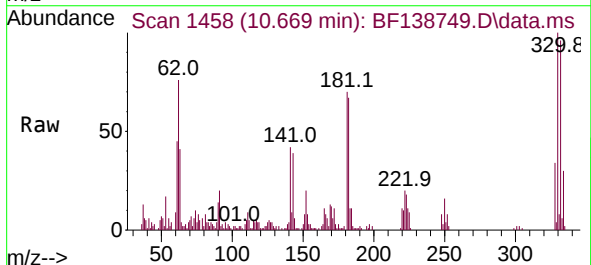
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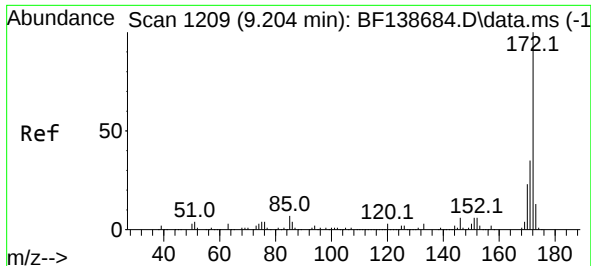
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#42
2,4,6-Tribromophenol
Concen: 48.805 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

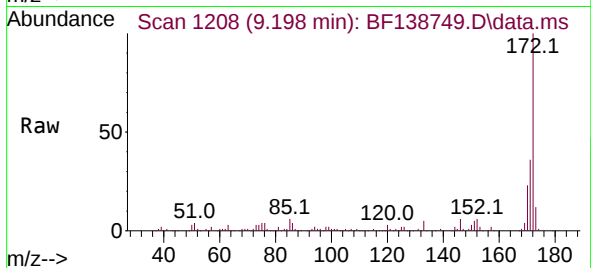
Tgt Ion:330 Resp: 33343
Ion Ratio Lower Upper
330 100
332 95.3 76.4 114.6
141 43.9 31.1 46.7





#45
2-Fluorobiphenyl
Concen: 31.870 ng
RT: 9.198 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

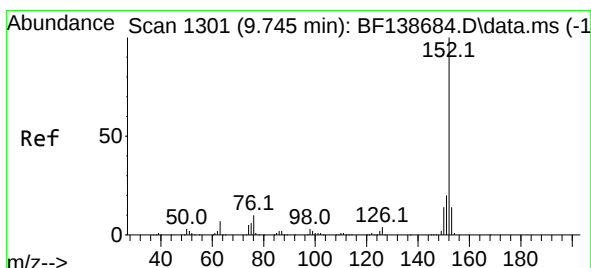
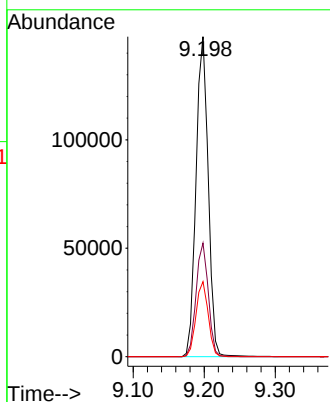
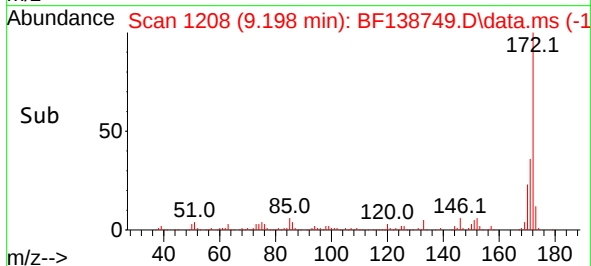
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:172 Resp: 17691
Ion Ratio Lower Upper
172 100
171 35.5 28.3 42.5
170 23.4 18.8 28.2

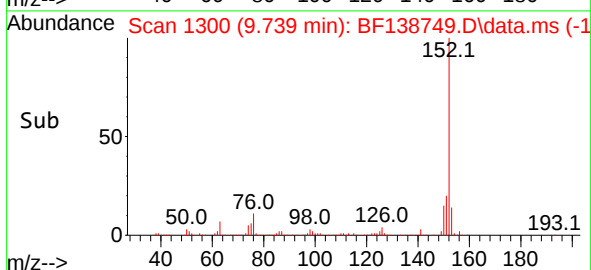
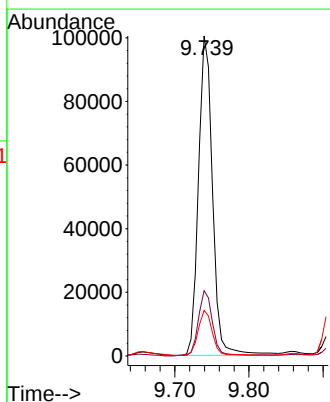
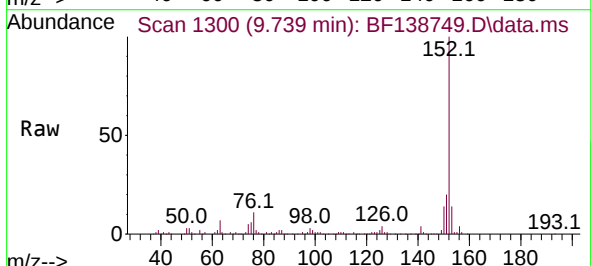
Manual Integrations
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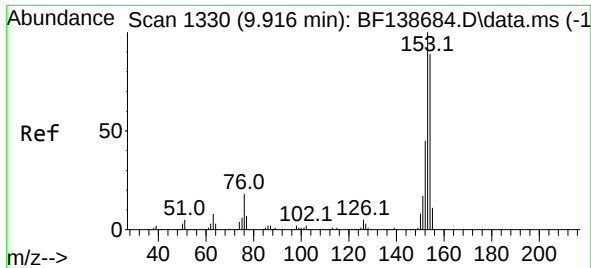
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#49
Acenaphthylene
Concen: 19.213 ng
RT: 9.739 min Scan# 1300
Delta R.T. -0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

Tgt Ion:152 Resp: 132379
Ion Ratio Lower Upper
152 100
151 20.4 16.0 24.0
153 14.3 11.0 16.4





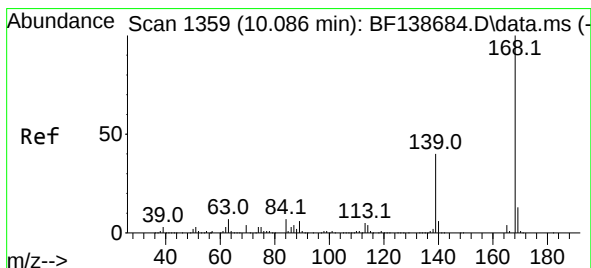
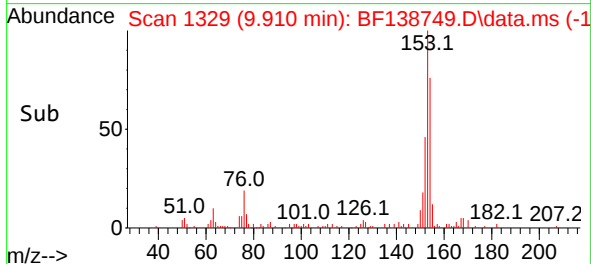
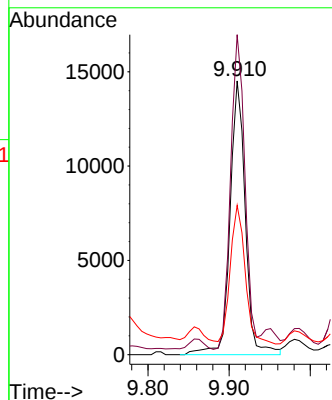
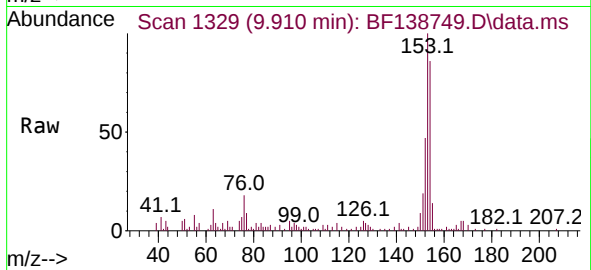
#52
Acenaphthene
Concen: 4.102 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A

Tgt Ion:154 Resp: 19000
Ion Ratio Lower Upper
154 100
153 116.9 89.9 134.9
152 54.5 40.6 60.8

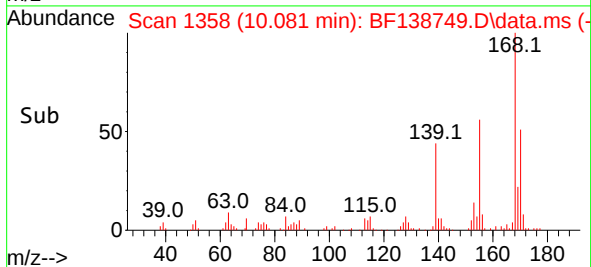
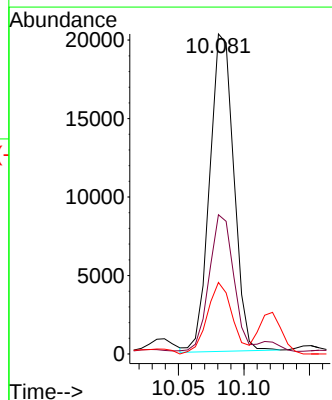
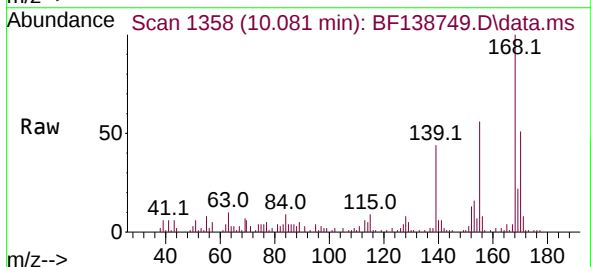
Manual Integrations
APPROVED

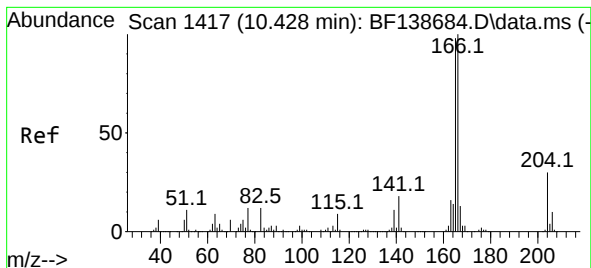
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#55
Dibenzofuran
Concen: 3.958 ng
RT: 10.081 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

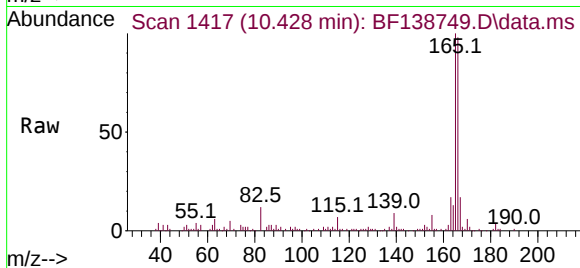
Tgt Ion:168 Resp: 25877
Ion Ratio Lower Upper
168 100
139 43.5 32.6 49.0
169 22.3 10.7 16.1#





#58
Fluorene
Concen: 11.047 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

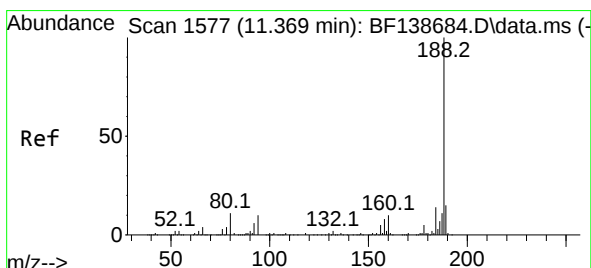
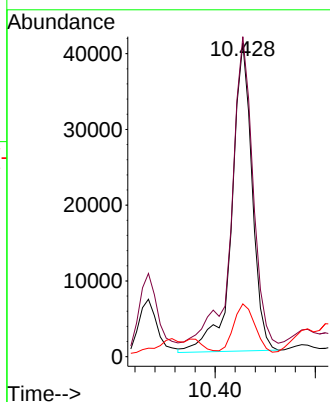
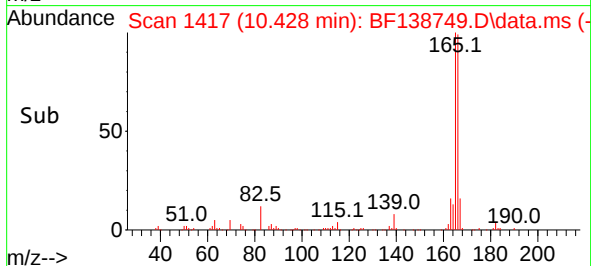
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:166 Resp: 5751
Ion Ratio Lower Upper
166 100
165 102.0 78.4 117.6
167 16.8 10.6 16.0

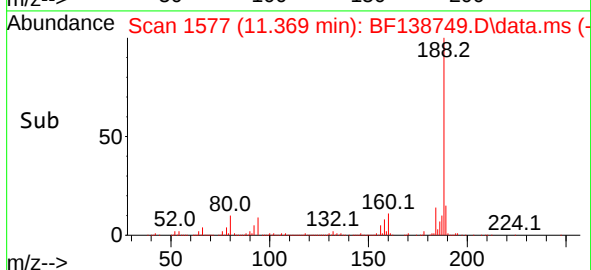
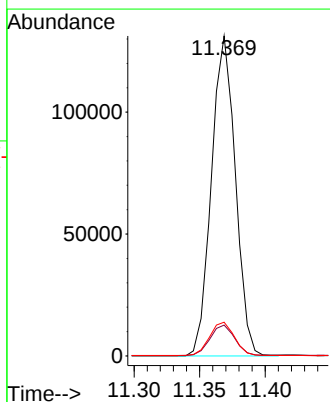
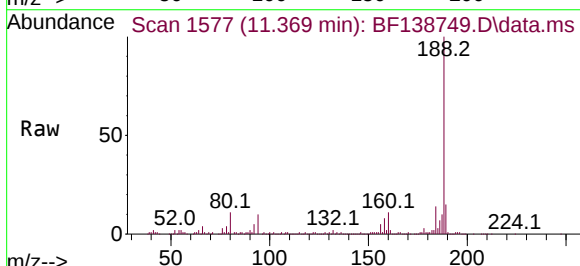
Manual Integrations
APPROVED

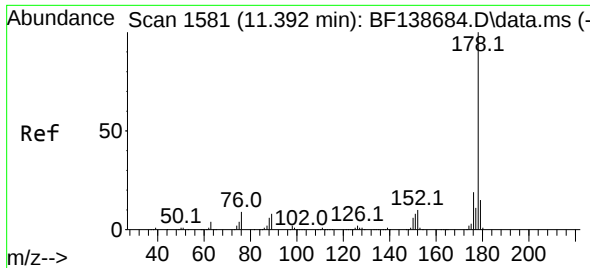
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

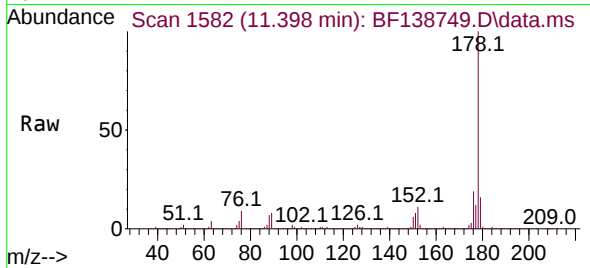
Tgt Ion:188 Resp: 166741
Ion Ratio Lower Upper
188 100
94 9.6 7.6 11.4
80 10.5 8.6 12.8





#71
Phenanthrene
Concen: 98.221 ng
RT: 11.398 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

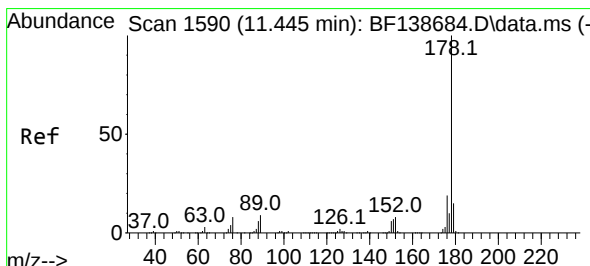
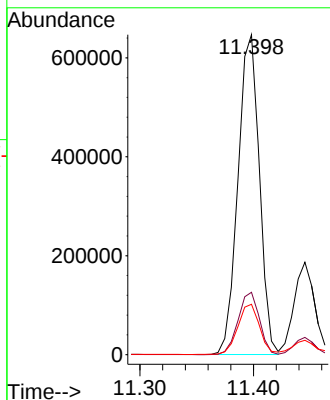
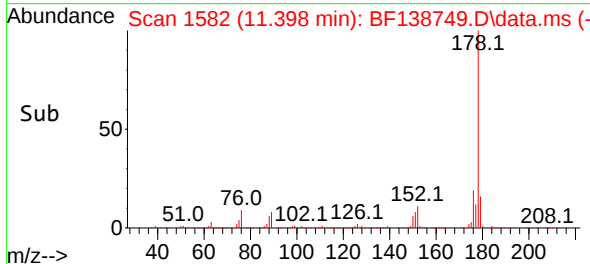
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:178 Resp: 84331
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.8 12.2 18.2

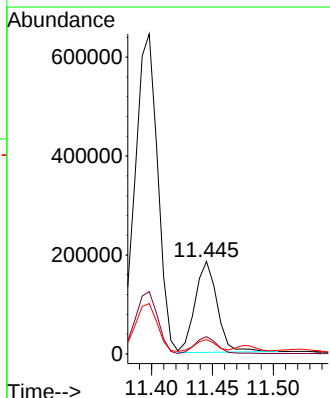
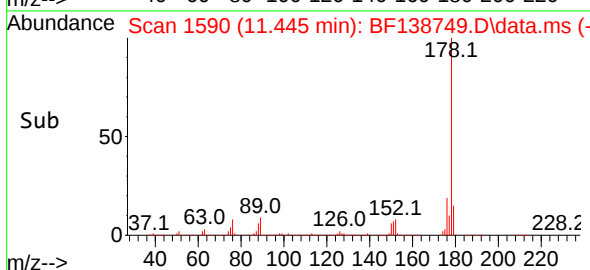
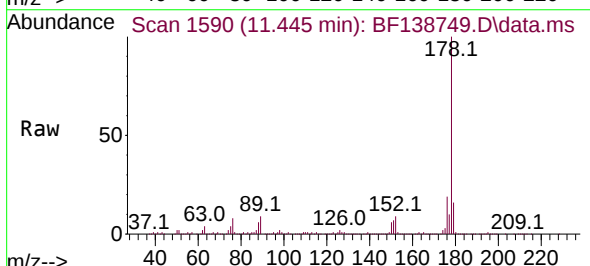
Manual Integrations
APPROVED

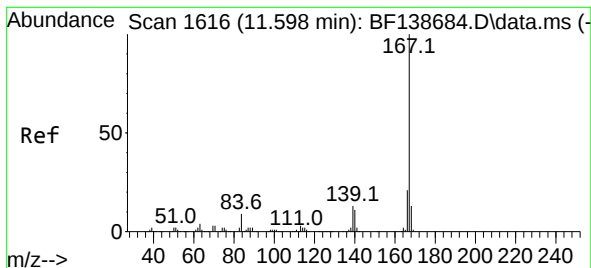
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#72
Anthracene
Concen: 27.512 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

Tgt Ion:178 Resp: 232706
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.7 12.4 18.6





#73

Carbazole

Concen: 4.167 ng

RT: 11.598 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-A

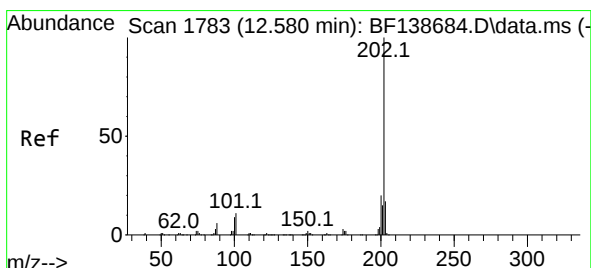
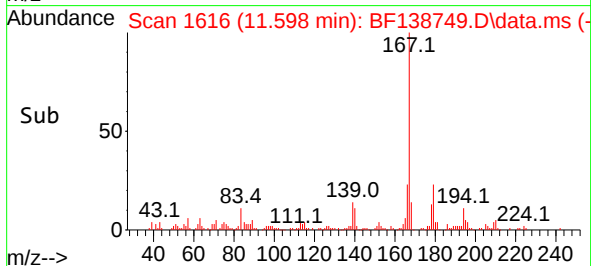
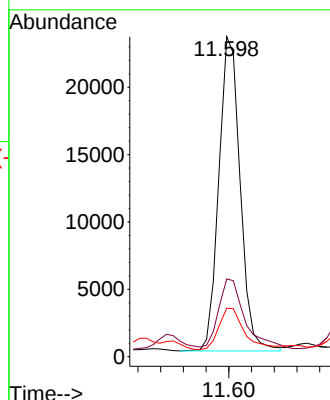
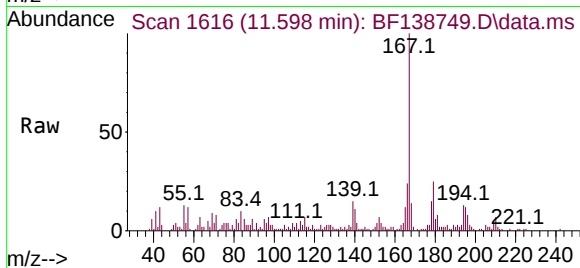
Tgt Ion:167	Resp:	30408
Ion Ratio	Lower	Upper
167	100	
166	24.3	17.2 25.8
139	15.2	10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#75

Fluoranthene

Concen: 231.608 ng

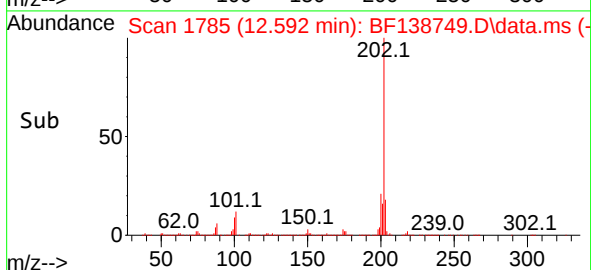
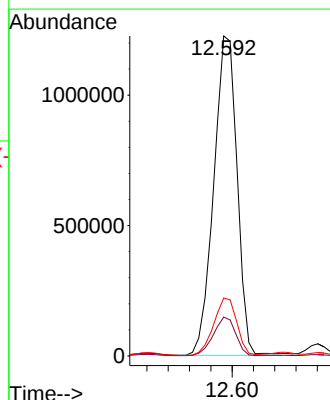
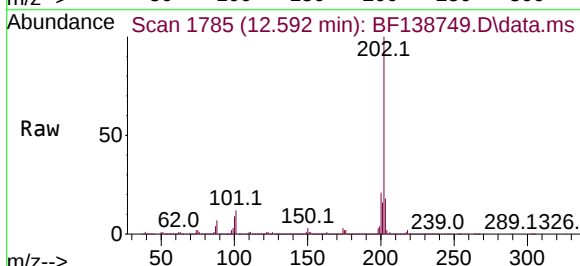
RT: 12.592 min Scan# 1785

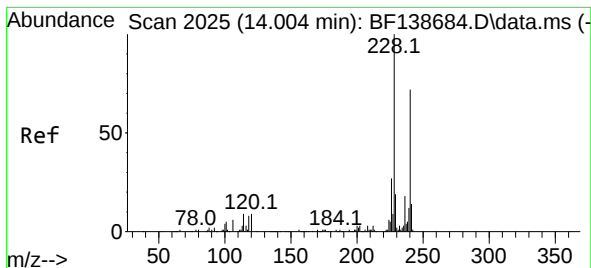
Delta R.T. 0.012 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

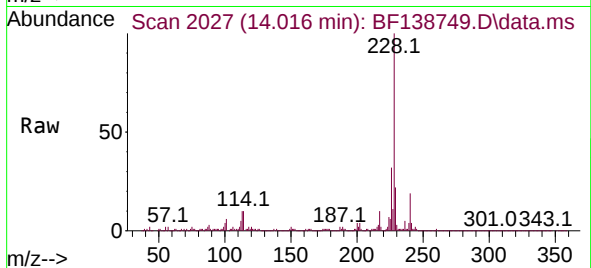
Tgt Ion:202	Resp:	1856427
Ion Ratio	Lower	Upper
202	100	
101	12.2	0.0 31.2
203	18.1	0.0 37.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.016 min Scan# 2025
Delta R.T. 0.012 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

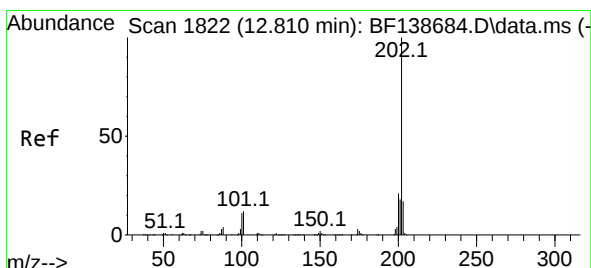
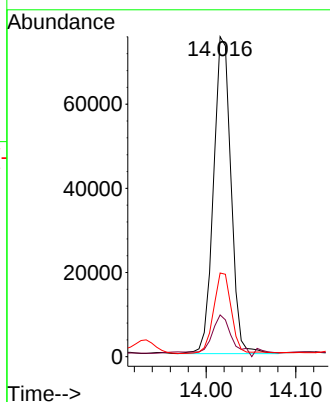
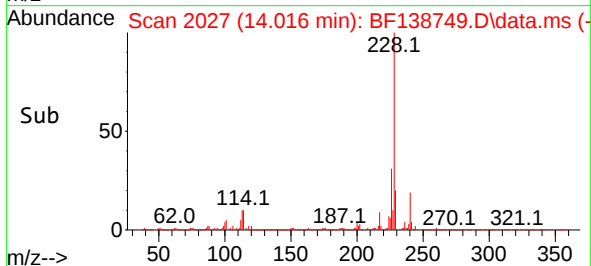
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:240 Resp: 101772
Ion Ratio Lower Upper
240 100
120 13.1 10.2 15.4
236 26.2 19.8 29.8

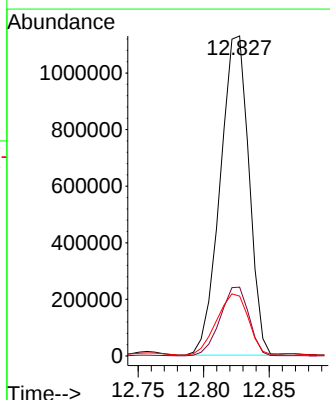
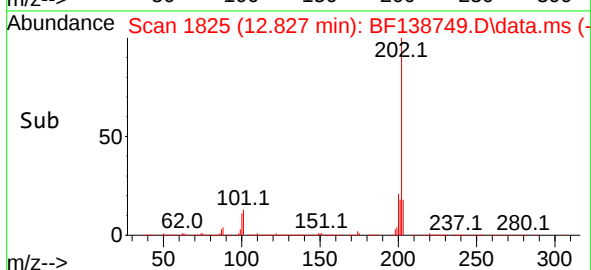
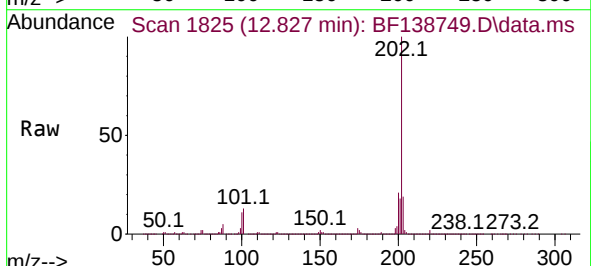
Manual Integrations
APPROVED

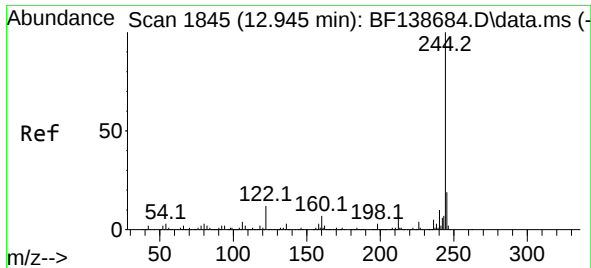
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#78
Pyrene
Concen: 179.644 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.018 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

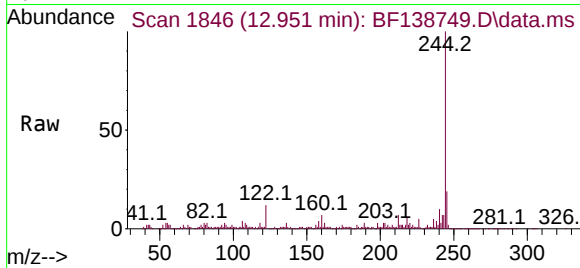
Tgt Ion:202 Resp: 1721377
Ion Ratio Lower Upper
202 100
200 21.5 16.8 25.2
203 18.7 13.8 20.6





#79
Terphenyl-d14
Concen: 38.877 ng
RT: 12.951 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

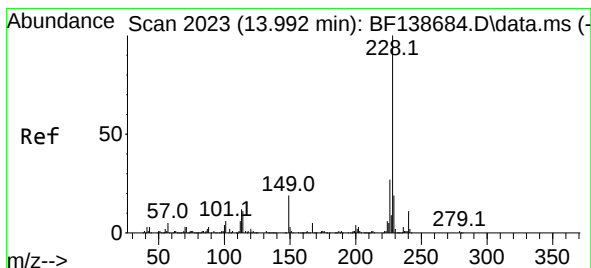
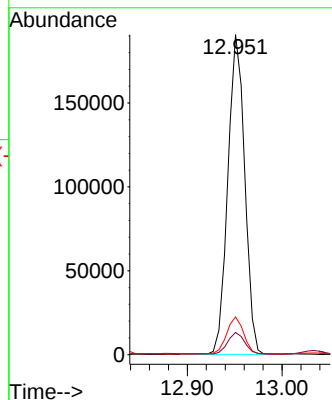
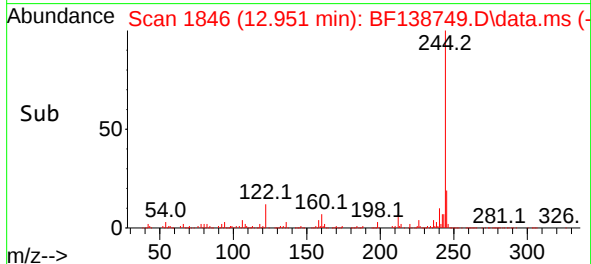
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:244 Resp: 236310
Ion Ratio Lower Upper
244 100
212 6.9 5.4 8.2
122 11.8 9.6 14.4

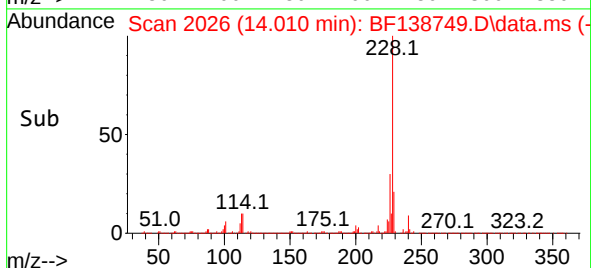
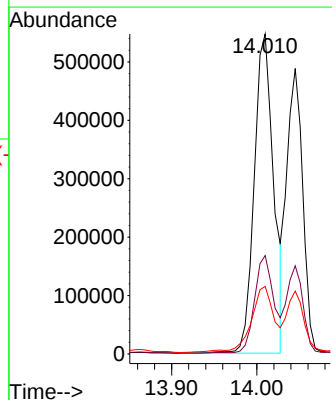
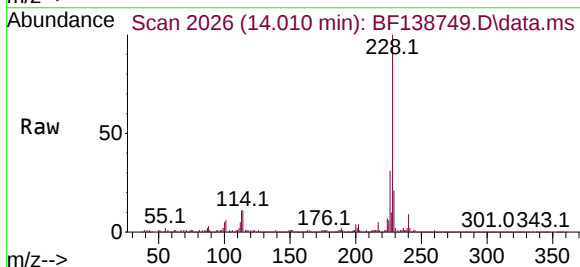
Manual Integrations
APPROVED

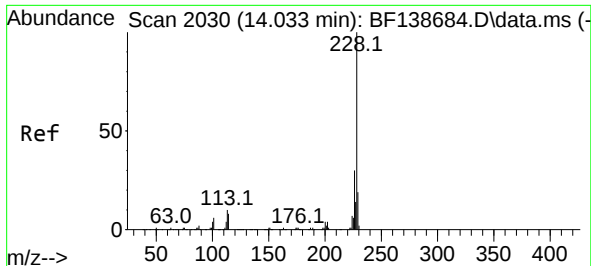
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#81
Benzo(a)anthracene
Concen: 123.177 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.018 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

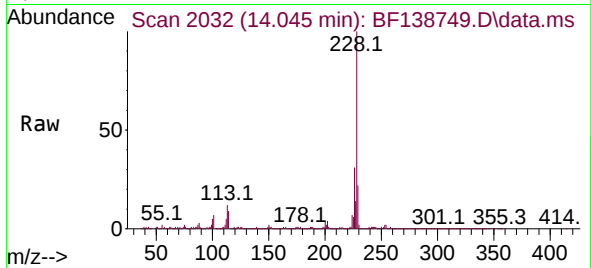
Tgt Ion:228 Resp: 863252
Ion Ratio Lower Upper
228 100
226 30.7 22.1 33.1
229 21.1 15.4 23.0





#83
Chrysene
Concen: 99.478 ng
RT: 14.045 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

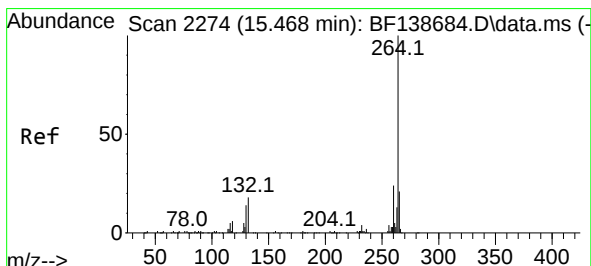
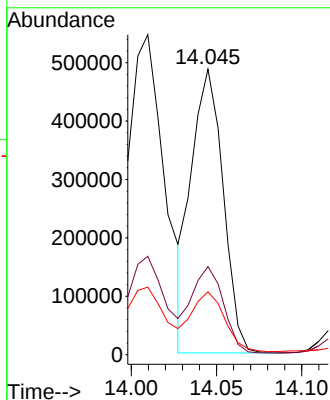
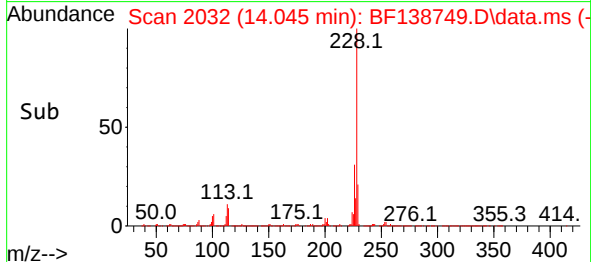
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-A



Tgt Ion:228 Resp: 62897
Ion Ratio Lower Upper
228 100
226 30.9 23.7 35.5
229 22.0 15.0 22.6

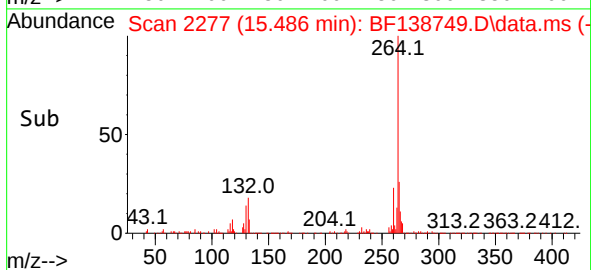
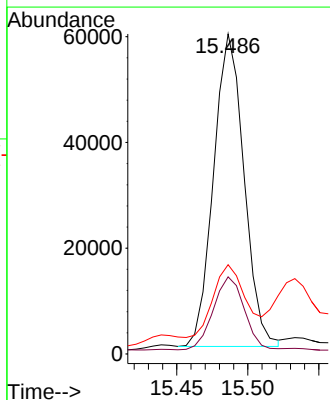
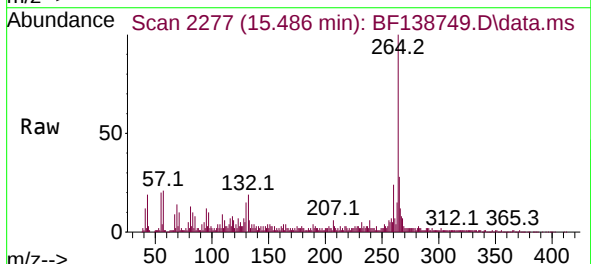
Manual Integrations
APPROVED

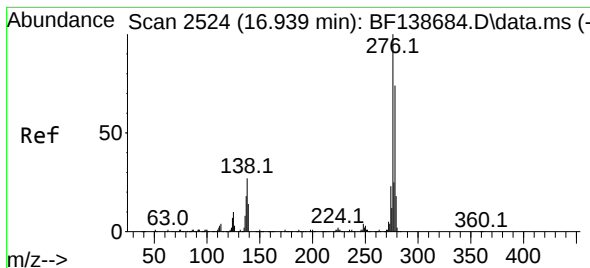
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.486 min Scan# 2277
Delta R.T. 0.018 min
Lab File: BF138749.D
Acq: 02 Aug 2024 16:10

Tgt Ion:264 Resp: 88042
Ion Ratio Lower Upper
264 100
260 24.1 19.0 28.6
265 27.9 17.0 25.6#





#87

Indeno(1,2,3-cd)pyrene

Concen: 45.611 ng

RT: 16.968 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-A

Tgt Ion: 276 Resp: 287779

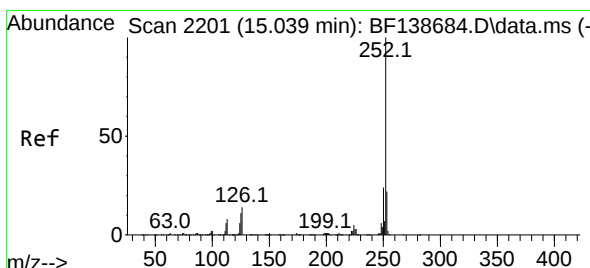
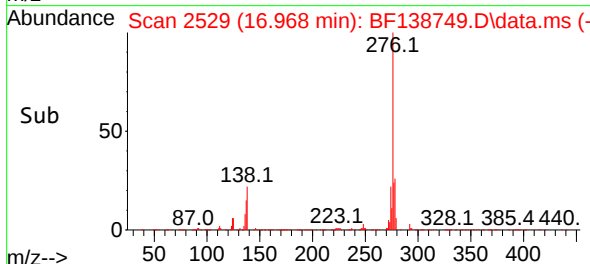
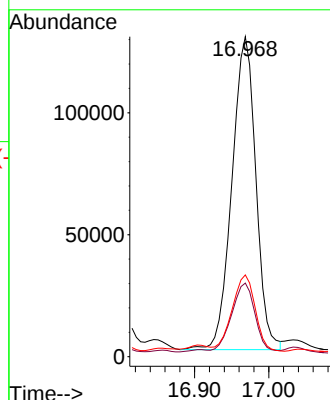
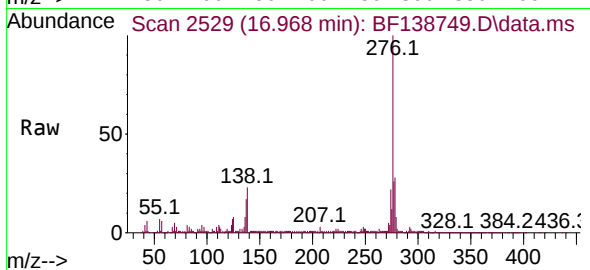
Ion	Ratio	Lower	Upper
276	100		
138	22.3	21.8	32.8
277	23.6	20.6	30.8

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 08/03/2024

Supervised By : mohammad ahmed 08/03/2024



#88

Benzo(b)fluoranthene

Concen: 137.973 ng m

RT: 15.063 min Scan# 2205

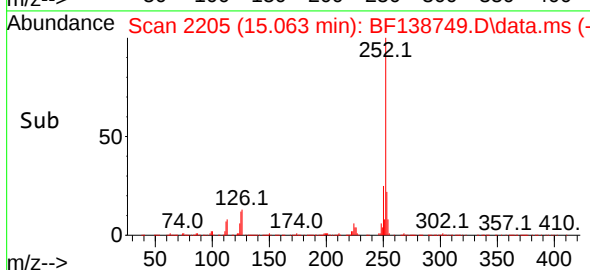
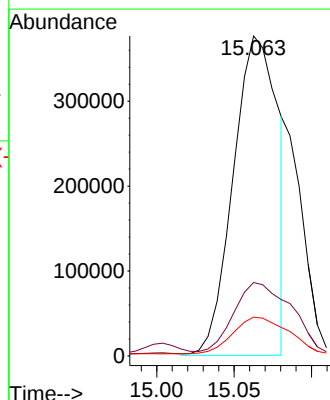
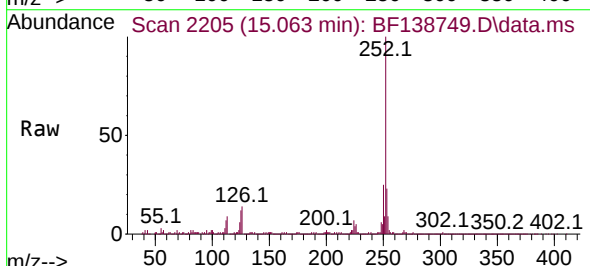
Delta R.T. 0.024 min

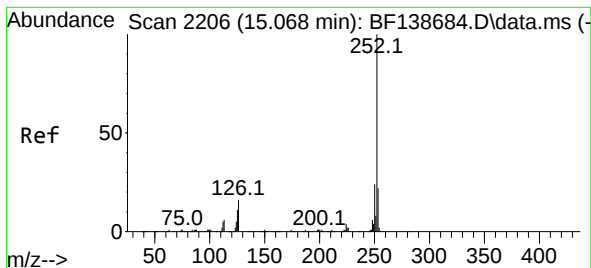
Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Tgt Ion: 252 Resp: 753022

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	12.2	8.9	13.3





#89

Benzo(k)fluoranthene

Concen: 46.260 ng m

RT: 15.080 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Instrument :

BNA_F

ClientSampleId :

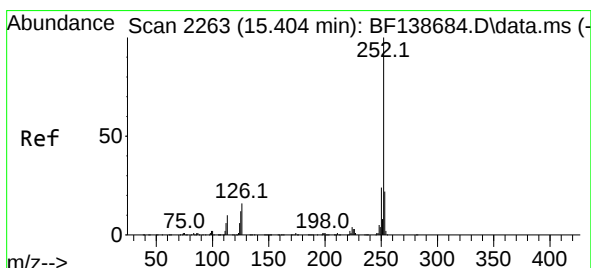
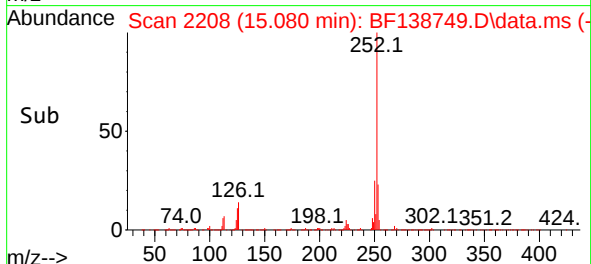
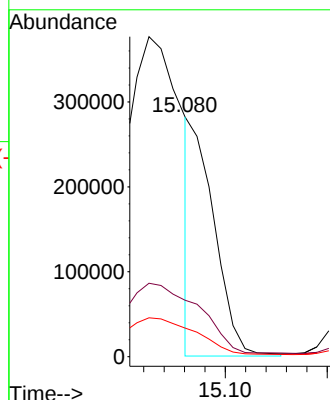
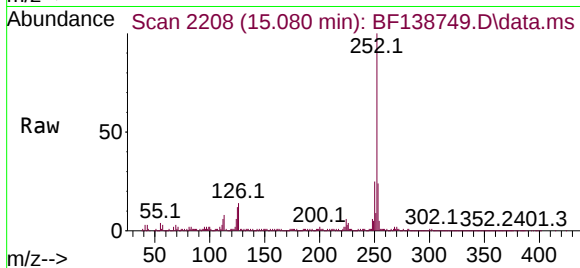
PL-02-07312024-A

Tgt Ion:252 Resp: 218598
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.4 26.0
 125 12.0 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024
 Supervised By :mohammad ahmed 08/03/2024



#90

Benzo(a)pyrene

Concen: 113.499 ng

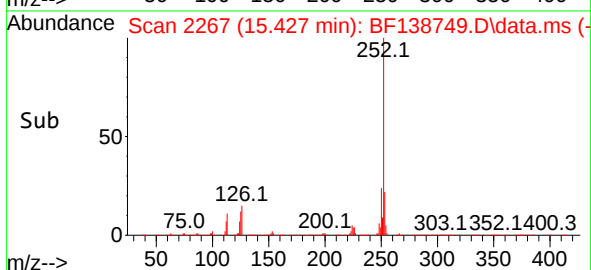
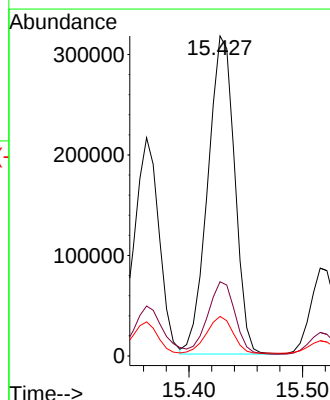
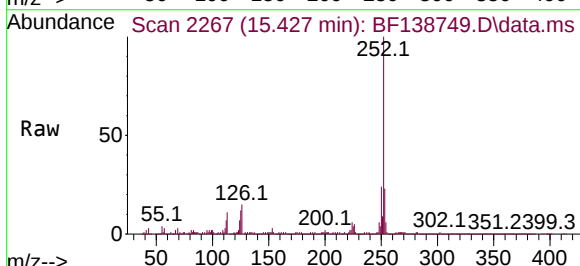
RT: 15.427 min Scan# 2267

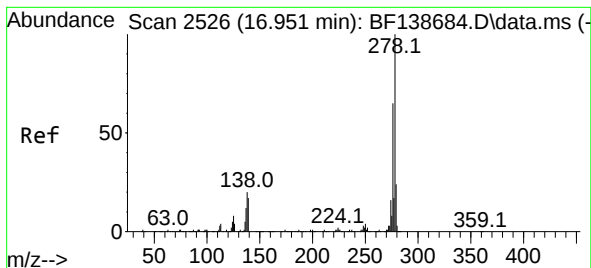
Delta R.T. 0.024 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Tgt Ion:252 Resp: 521045
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.3 25.9
 125 12.4 9.5 14.3





#91

Dibenzo(a,h)anthracene

Concen: 14.217 ng

RT: 16.968 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-A

Tgt Ion:278 Resp: 7363

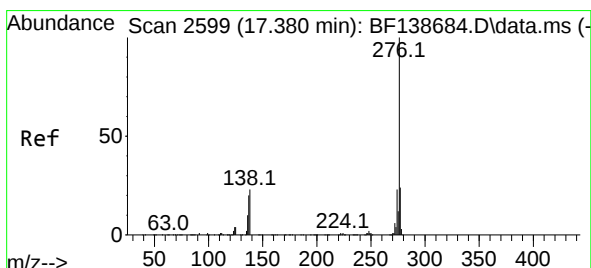
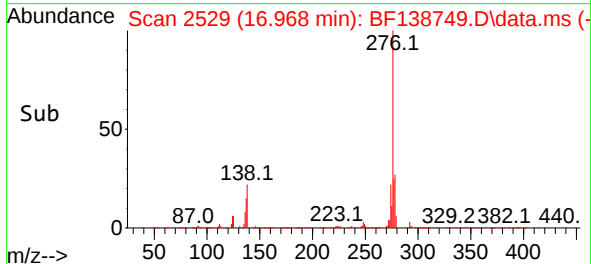
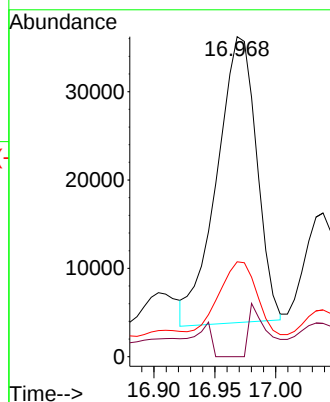
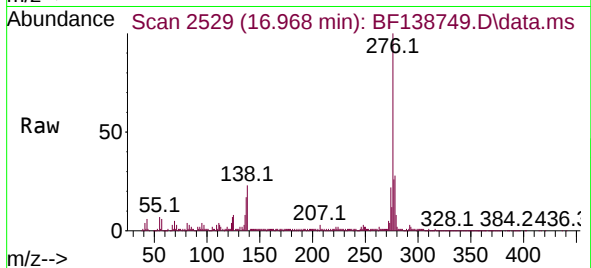
Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.0	21.0
279	29.7	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#92

Benzo(g,h,i)perylene

Concen: 48.035 ng

RT: 17.415 min Scan# 2605

Delta R.T. 0.035 min

Lab File: BF138749.D

Acq: 02 Aug 2024 16:10

Tgt Ion:276 Resp: 258166

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.0	28.4
138	23.6	18.5	27.7

