

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011223\
 Data File : BF132040.D
 Acq On : 12 Jan 2023 14:17
 Operator : CG\JU
 Sample : 01080-05DL2 100X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 01/13/2023
 Supervised By :mohammad ahmed 01/13/2023

Quant Time: Jan 12 15:13:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 12 15:02:29 2023
 Response via : Initial Calibration

01/13/2023
 Supervised By :mohammad
 ahmed

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	76563	20.000	ng	0.00
21) Naphthalene-d8	8.063	136	279575	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	168084	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	323092	20.000	ng	0.00
76) Chrysene-d12	13.957	240	153615	20.000	ng	0.00
86) Perylene-d12	15.415	264	156596	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	4097	0.882	ng	0.02
7) Phenol-d6	6.428	99	6049	0.982	ng	0.00
23) Nitrobenzene-d5	7.339	82	3978	0.591	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	877	0.454	ng	0.00
45) 2-Fluorobiphenyl	9.139	172	6875	0.552	ng	0.00
79) Terphenyl-d14	12.898	244	6497	0.606	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.092	128	1659423	112.314	ng	99
37) 2-Methylnaphthalene	8.775	142	106894	10.074	ng	99
38) 1-Methylnaphthalene	8.874	142	73466	7.473	ng	96
49) Acenaphthylene	9.680	152	52646	3.369	ng	98
55) Dibenzofuran	10.021	168	63539	4.298	ng	97
58) Fluorene	10.369	166	62178	5.265	ng	98
71) Phenanthrene	11.333	178	335386	19.913	ng	100
72) Anthracene	11.386	178	80779	4.659	ng	98
75) Fluoranthene	12.527	202	248220	13.104	ng	99
78) Pyrene	12.757	202	221345	15.798	ng	98
81) Benzo(a)anthracene	13.945	228	50095	4.482	ng	95
83) Chrysene	13.980	228	41397	3.963	ng	96
87) Indeno(1,2,3-cd)pyrene	16.868	276	24392	2.540	ng	96
88) Benzo(b)fluoranthene	14.992	252	45607m	4.246	ng	
90) Benzo(a)pyrene	15.351	252	35508	3.669	ng	# 93
92) Benzo(g,h,i)perylene	17.303	276	23860	6.089	ng	98

01/13/2023

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

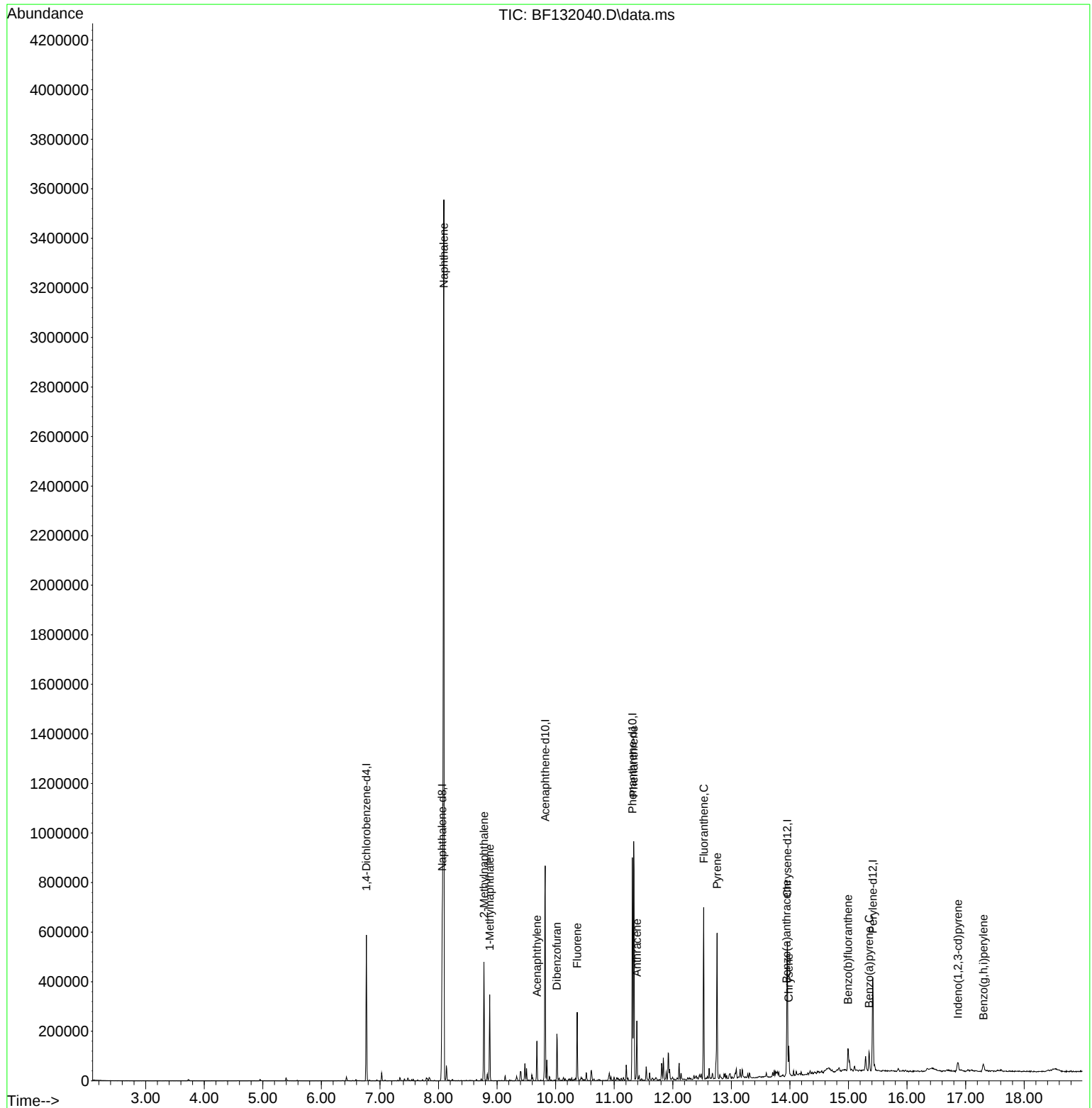
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011223\
Data File : BF132040.D
Acq On : 12 Jan 2023 14:17
Operator : CG\JU
Sample : 01080-05DL2 100X
Misc :
ALS Vial : 5 Sample Multiplier: 1

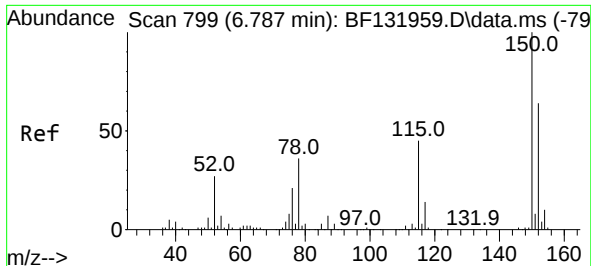
Instrument :
BNA_F
ClientSampleId :

Quant Time: Jan 12 15:13:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 12 15:02:29 2023
Response via : Initial Calibration

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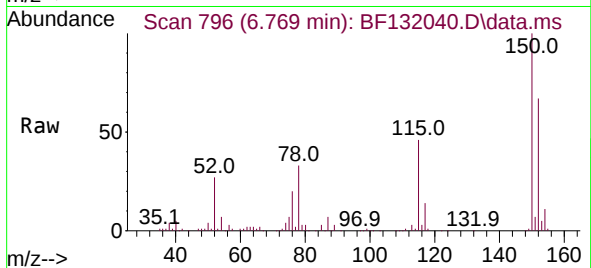
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 799
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

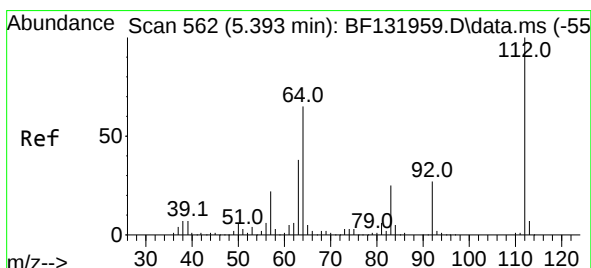
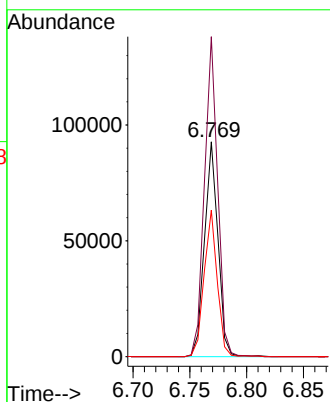
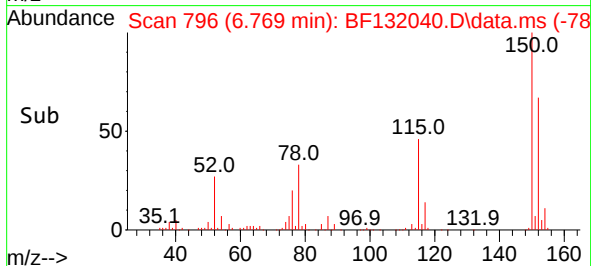
Instrument :
BNA_F
ClientSampleId :



Tgt Ion:152 Resp: 76563
Ion Ratio Lower Upper
152 100
150 149.0 124.6 186.8
115 68.2 55.6 83.4

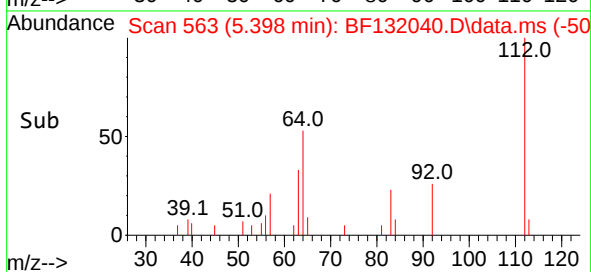
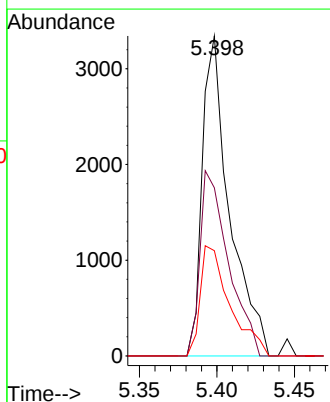
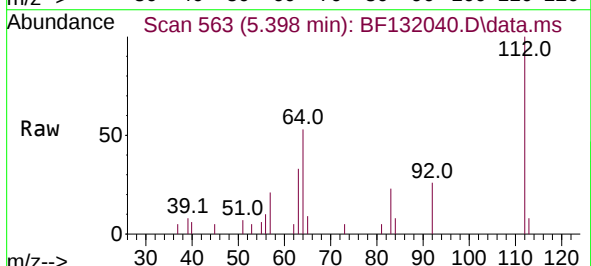
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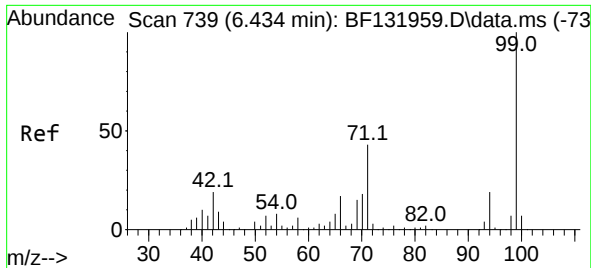
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#5
2-Fluorophenol
Concen: 0.882 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.018 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

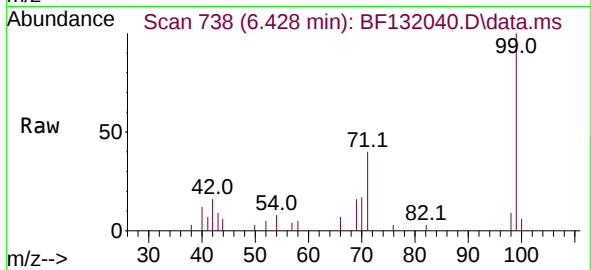
Tgt Ion:112 Resp: 4097
Ion Ratio Lower Upper
112 100
64 52.5 51.9 77.9
63 32.9 30.2 45.2





#7
Phenol-d6
Concen: 0.982 ng
RT: 6.428 min Scan# 739
Delta R.T. 0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

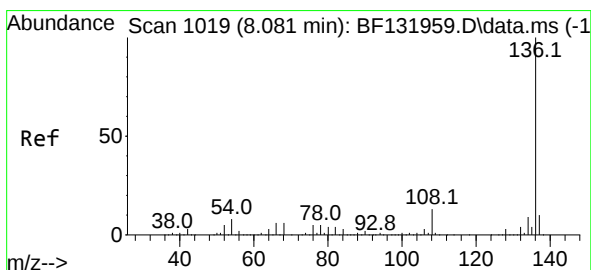
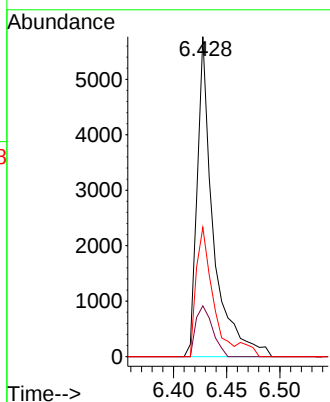
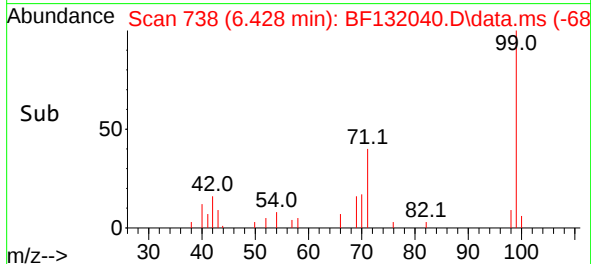
Instrument :
BNA_F
ClientSampleId :



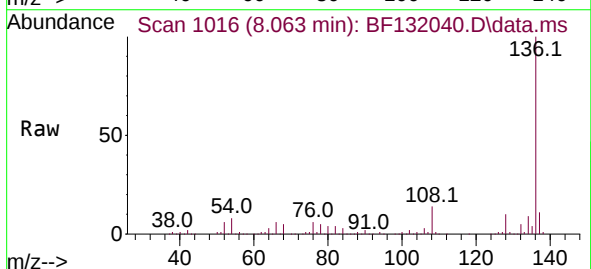
Tgt Ion: 99 Resp: 6049
Ion Ratio Lower Upper
99 100
42 15.9 15.4 23.2
71 40.4 34.6 51.8

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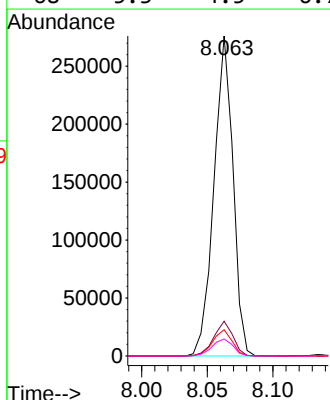
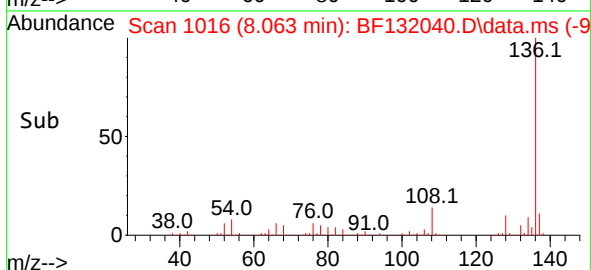
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023

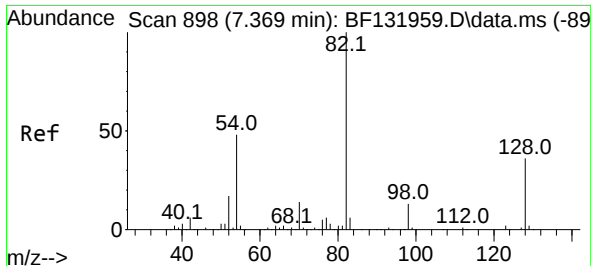


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17



Tgt Ion:136 Resp: 279575
Ion Ratio Lower Upper
136 100
137 10.8 8.2 12.2
54 8.2 6.6 9.8
68 5.3 4.5 6.7





#23

Nitrobenzene-d5

Concen: 0.591 ng

RT: 7.339 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

Instrument :

BNA_F

ClientSampleId :

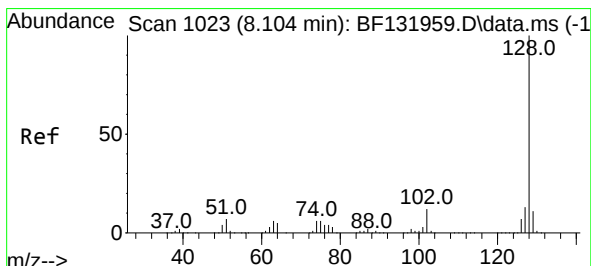
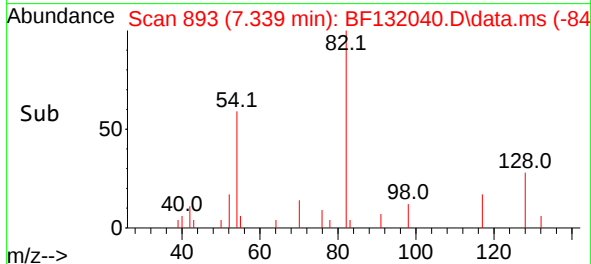
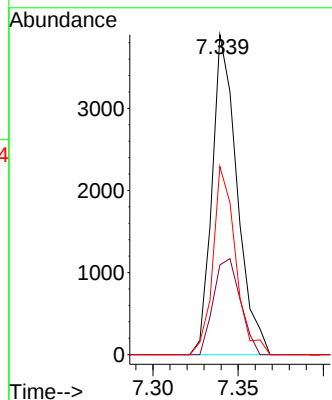
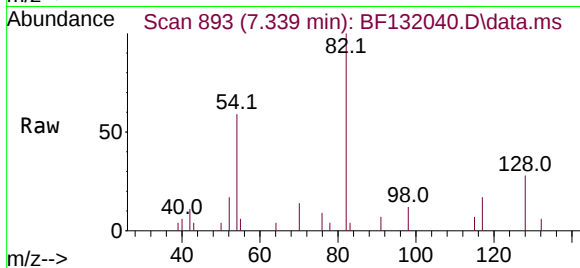
Tgt Ion: 82 Resp: 3978

Ion	Ratio	Lower	Upper
82	100		
128	28.0	28.7	43.1
54	58.8	38.1	57.1

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Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#31

Naphthalene

Concen: 112.314 ng

RT: 8.092 min Scan# 1021

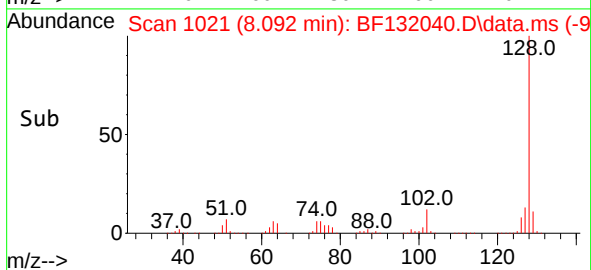
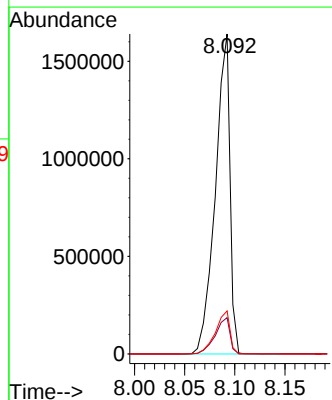
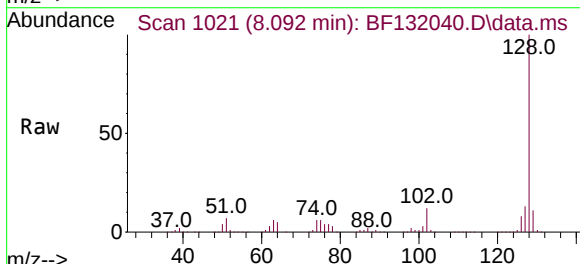
Delta R.T. 0.006 min

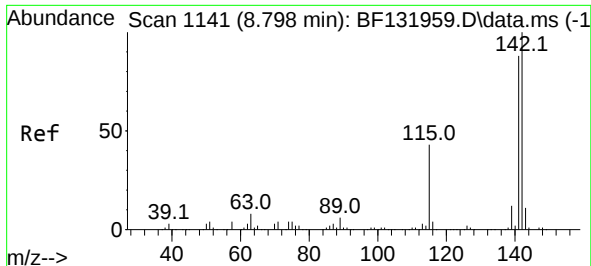
Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

Tgt Ion:128 Resp: 1659423

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.4	10.5	15.7





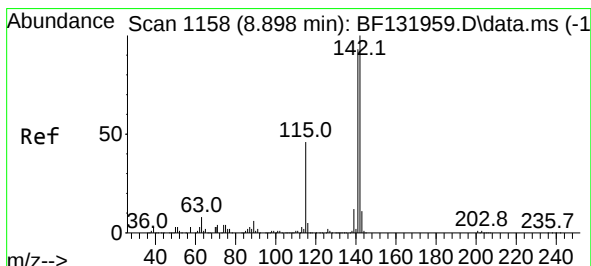
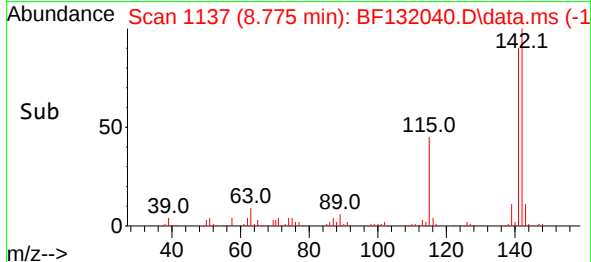
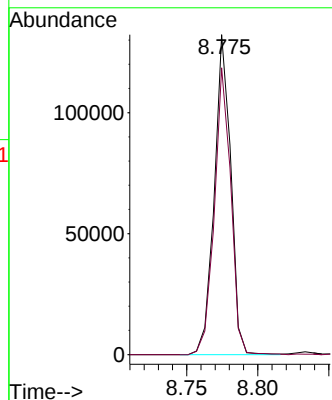
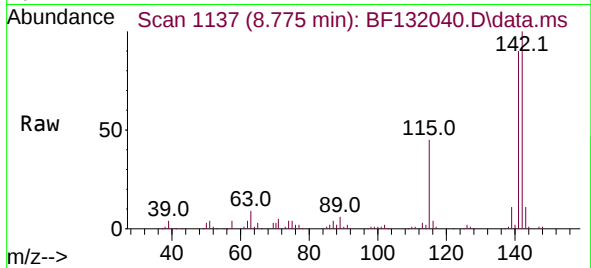
#37
2-Methylnaphthalene
Concen: 10.074 ng
RT: 8.775 min Scan# 1141
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:142 Resp: 106894
Ion Ratio Lower Upper
142 100
141 89.6 70.6 106.0

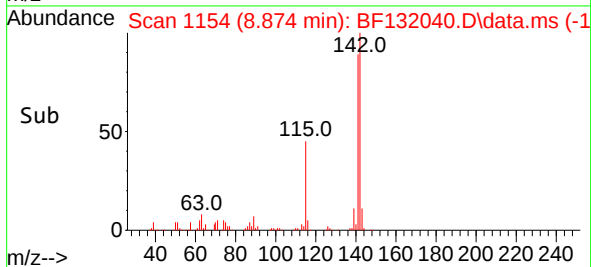
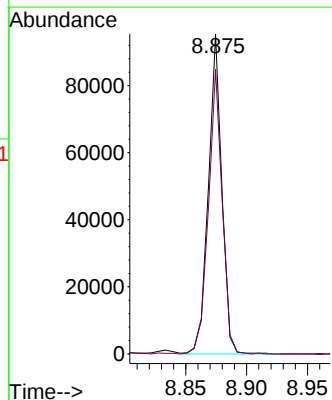
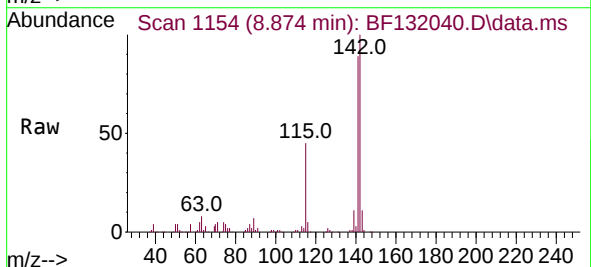
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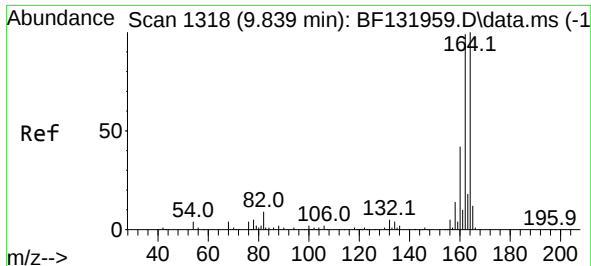
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#38
1-Methylnaphthalene
Concen: 7.473 ng
RT: 8.874 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

Tgt Ion:142 Resp: 73466
Ion Ratio Lower Upper
142 100
141 88.9 74.3 111.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1318

Delta R.T. -0.000 min

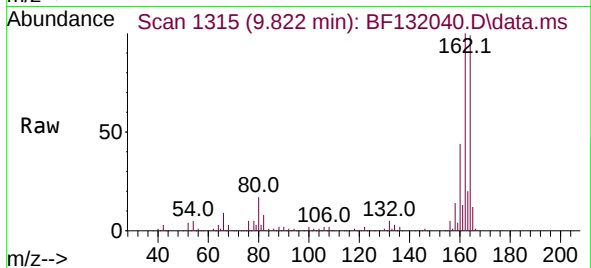
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Acq: 12 Jan 2023 14:17

Instrument :

BNA_F

ClientSampleId :

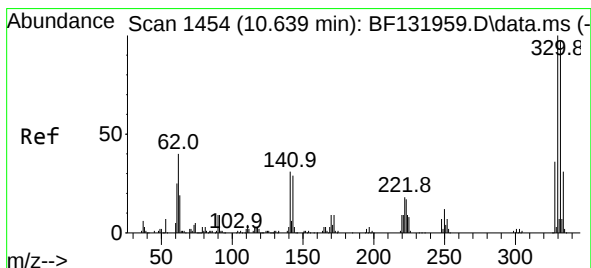
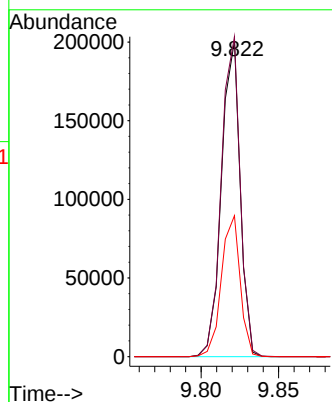


Tgt Ion:164	Resp: 168084
Ion Ratio	Lower Upper
164	100
162	101.3 79.4 119.0
160	44.6 33.9 50.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#42

2,4,6-Tribromophenol

Concen: 0.454 ng

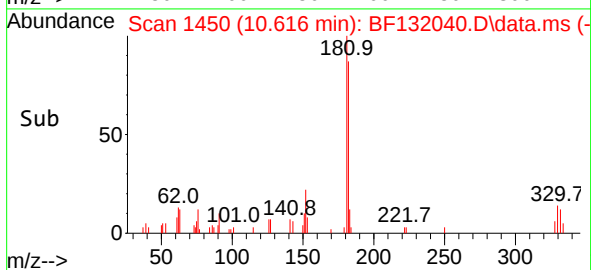
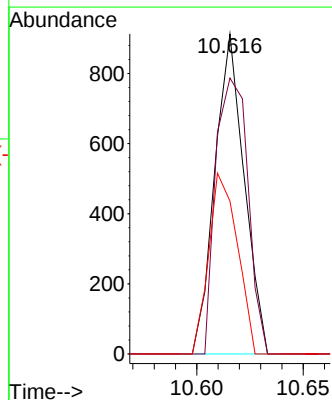
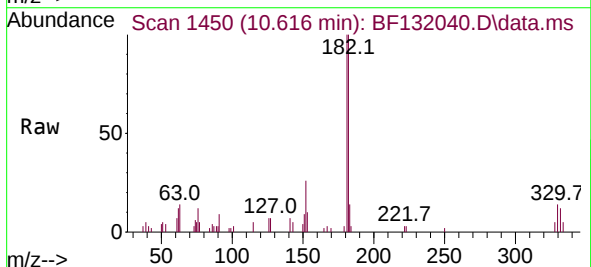
RT: 10.616 min Scan# 1450

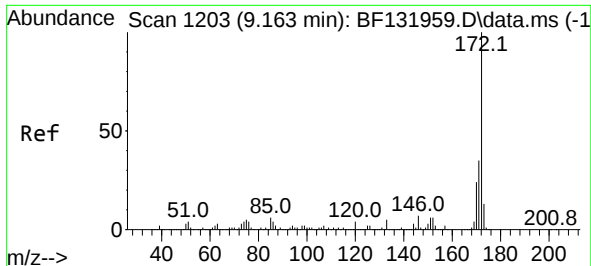
Delta R.T. -0.006 min

Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

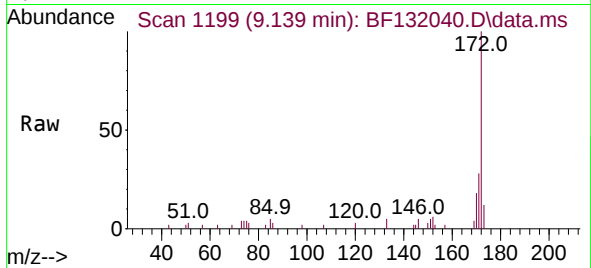
Tgt Ion:330	Resp: 877
Ion Ratio	Lower Upper
330	100
332	94.1 76.9 115.3
141	55.1 31.3 46.9





#45
2-Fluorobiphenyl
Concen: 0.552 ng
RT: 9.139 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

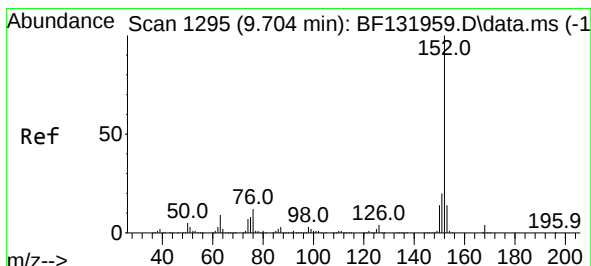
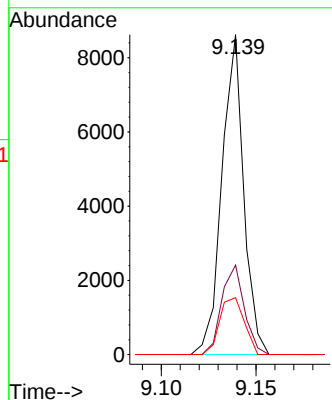
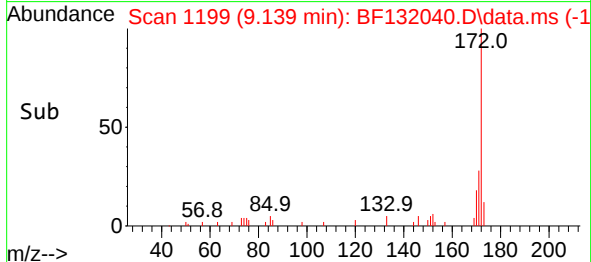
Instrument :
BNA_F
ClientSampleId :



Tgt Ion:172 Resp: 6875
Ion Ratio Lower Upper
172 100
171 28.0 28.0 42.0
170 17.8 18.9 28.3

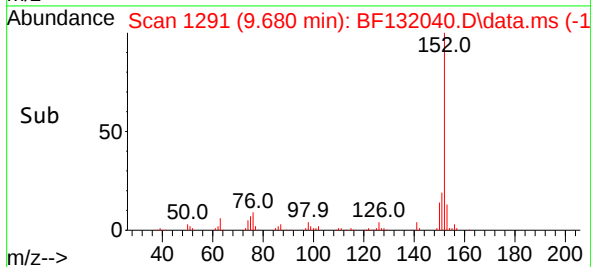
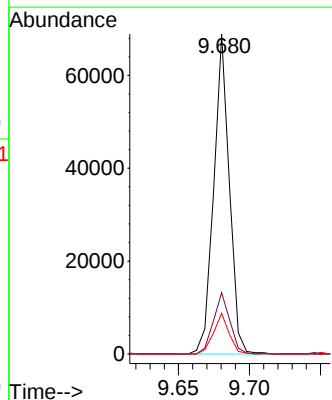
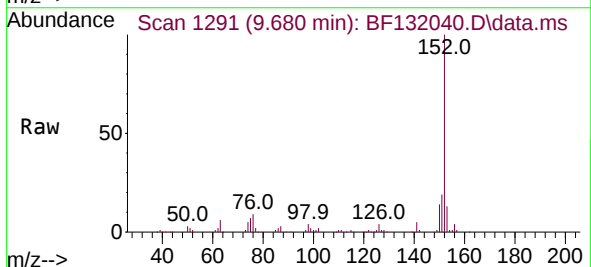
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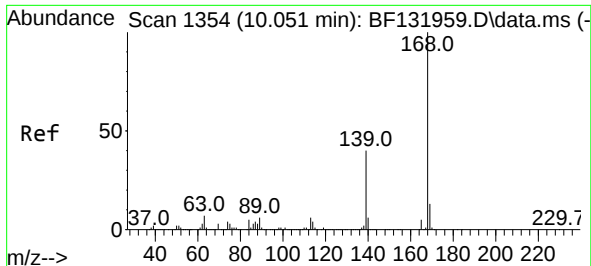
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#49
Acenaphthylene
Concen: 3.369 ng
RT: 9.680 min Scan# 1291
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

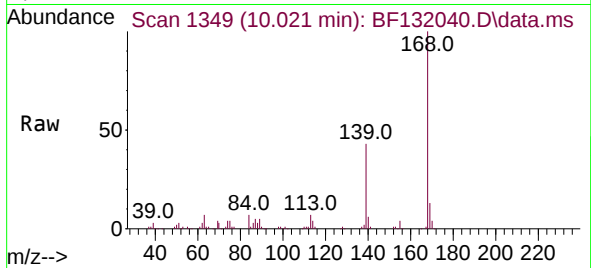
Tgt Ion:152 Resp: 52646
Ion Ratio Lower Upper
152 100
151 19.1 16.2 24.2
153 12.7 10.8 16.2





#55
Dibenzenofuran
Concen: 4.298 ng
RT: 10.021 min Scan# 1354
Delta R.T. -0.012 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

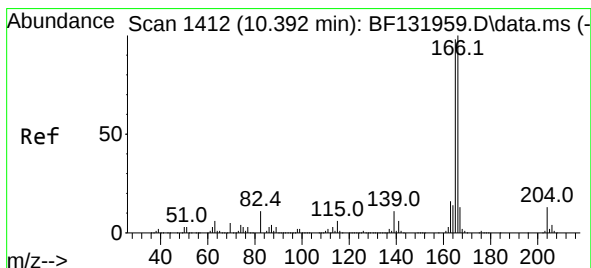
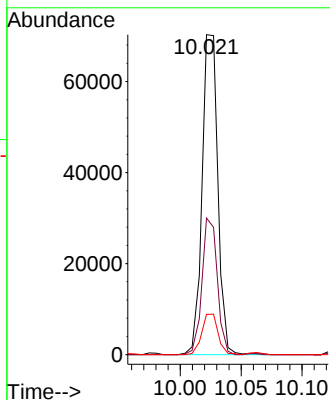
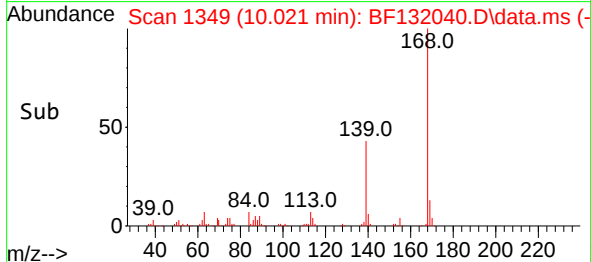
Instrument :
BNA_F
ClientSampleId :



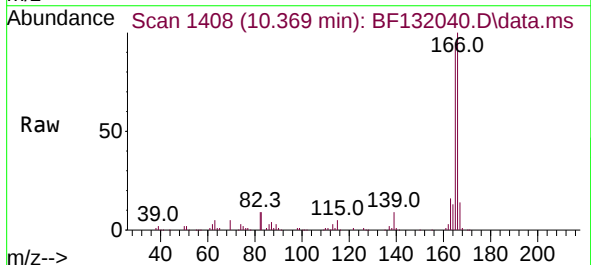
Tgt Ion:168 Resp: 63539
Ion Ratio Lower Upper
168 100
139 42.7 32.4 48.6
169 12.6 10.7 16.1

Manual Integrations
APPROVED

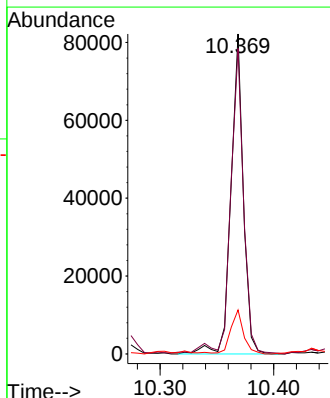
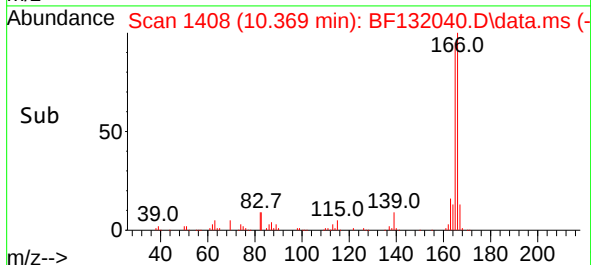
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023

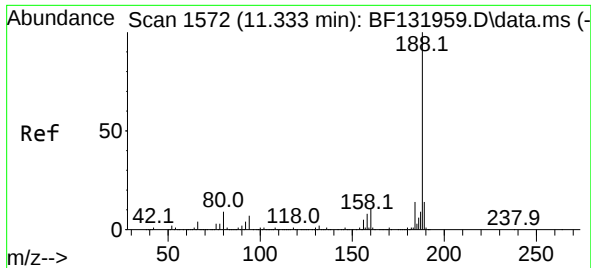


#58
Fluorene
Concen: 5.265 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17



Tgt Ion:166 Resp: 62178
Ion Ratio Lower Upper
166 100
165 95.5 78.3 117.5
167 13.7 10.7 16.1





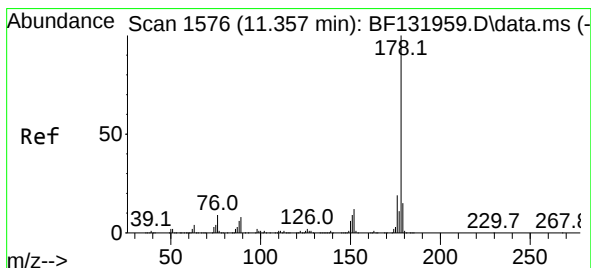
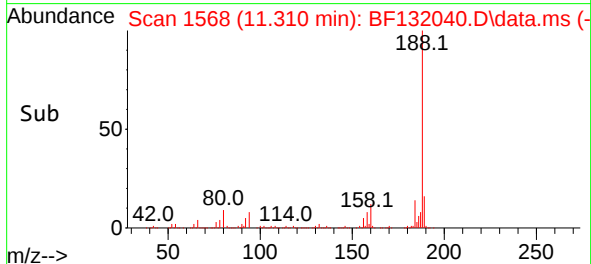
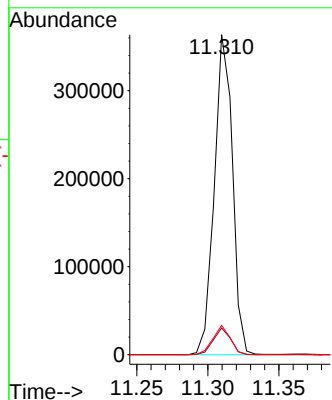
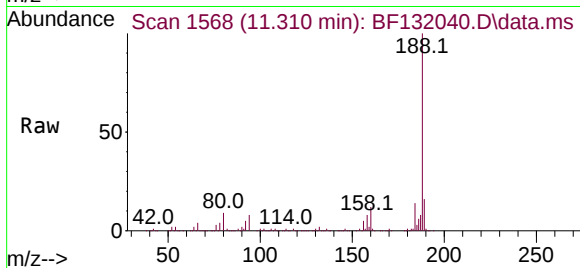
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:188 Resp: 323092
Ion Ratio Lower Upper
188 100
94 8.3 5.8 8.6
80 9.1 7.4 11.0

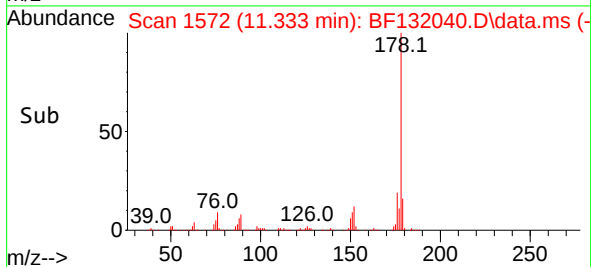
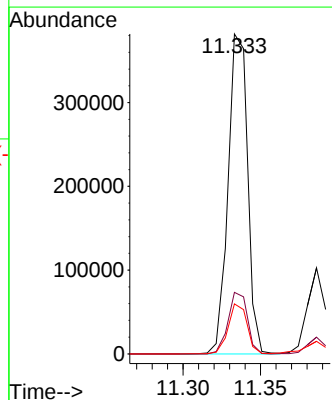
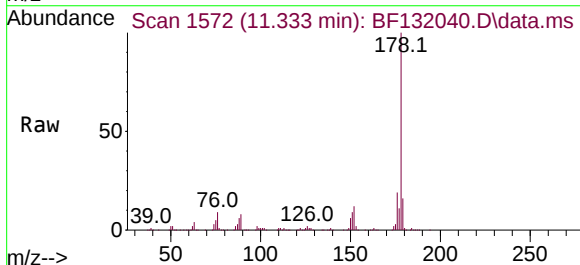
Manual Integrations
APPROVED

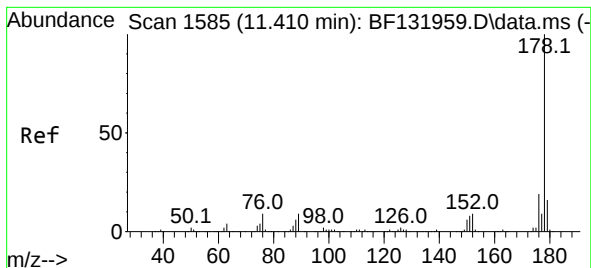
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#71
Phenanthrene
Concen: 19.913 ng
RT: 11.333 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

Tgt Ion:178 Resp: 335386
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.6 12.4 18.6





#72

Anthracene

Concen: 4.659 ng

RT: 11.386 min Scan# 11

Delta R.T. -0.006 min

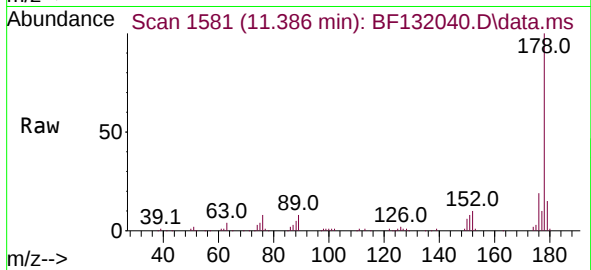
Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

Instrument :

BNA_F

ClientSampleId :



Tgt Ion:178 Resp: 80779

Ion Ratio Lower Upper

178 100

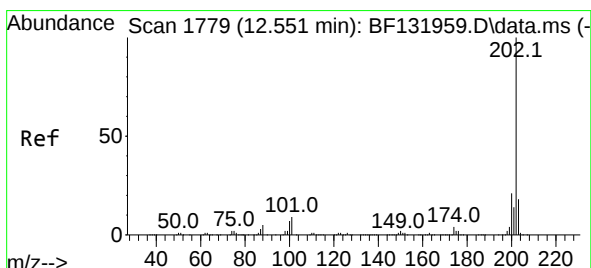
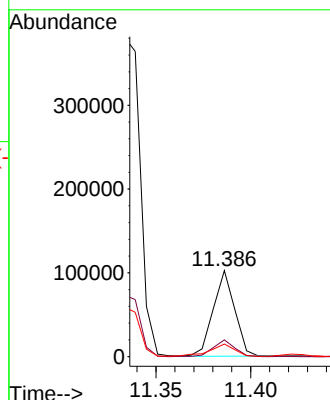
176 19.4 15.3 22.9

179 14.5 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#75

Fluoranthene

Concen: 13.104 ng

RT: 12.527 min Scan# 1775

Delta R.T. -0.006 min

Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

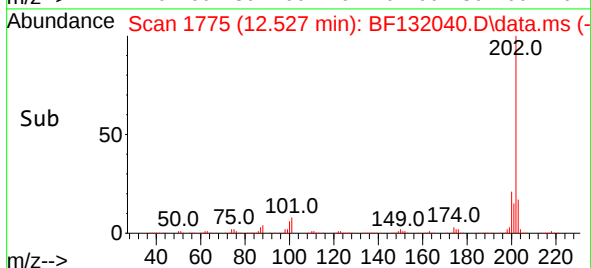
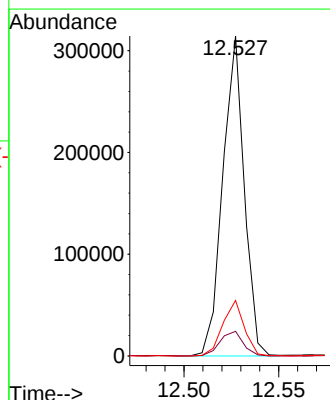
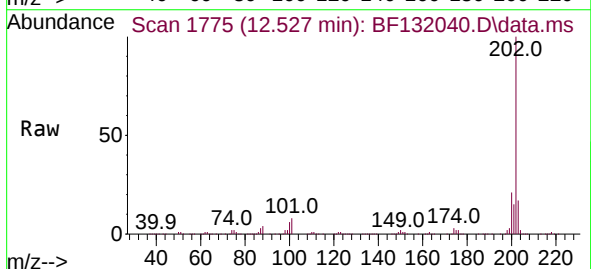
Tgt Ion:202 Resp: 248220

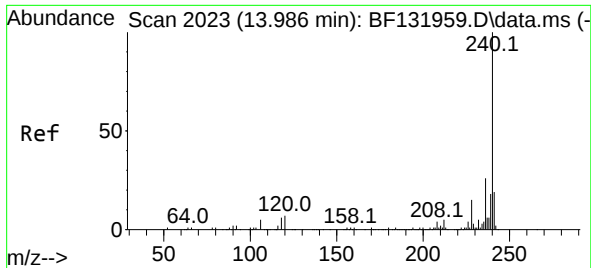
Ion Ratio Lower Upper

202 100

101 7.7 0.0 28.8

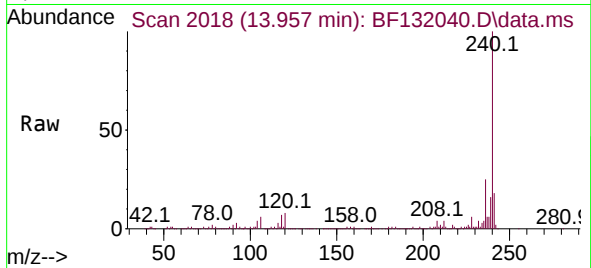
203 17.3 0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

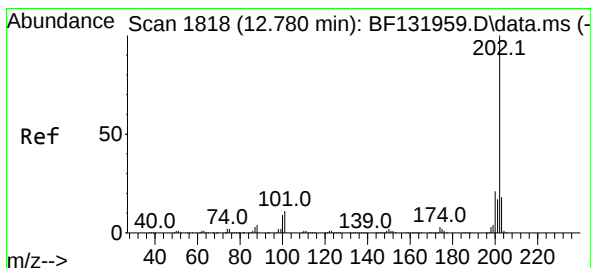
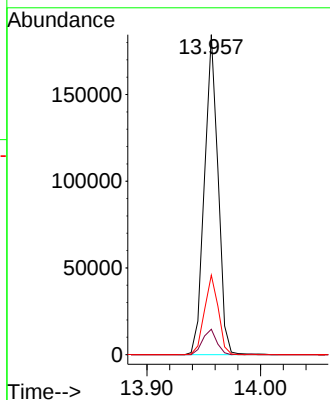
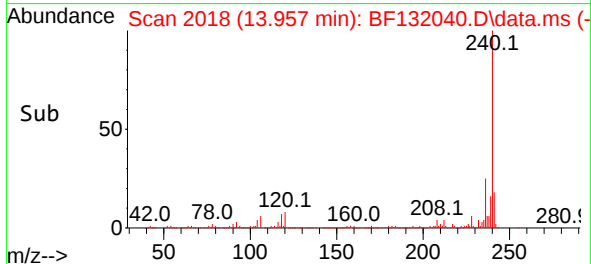
Instrument :
BNA_F
ClientSampleId :



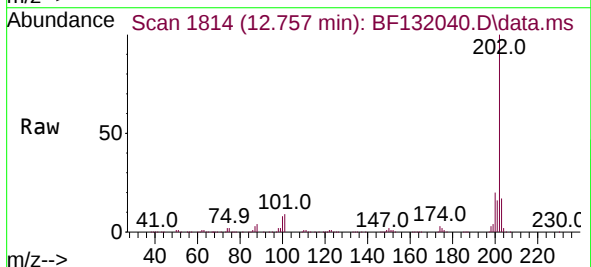
Tgt Ion:240 Resp: 153615
Ion Ratio Lower Upper
240 100
120 7.9 5.4 8.0
236 24.8 21.1 31.7

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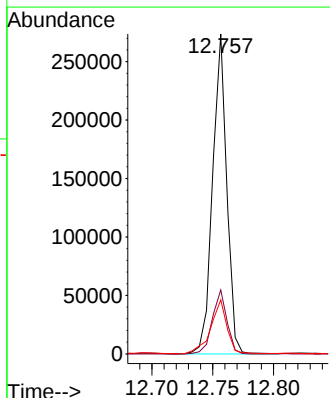
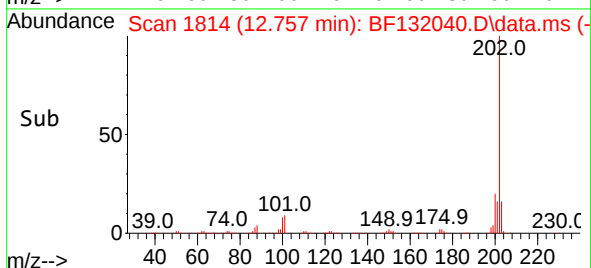
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023

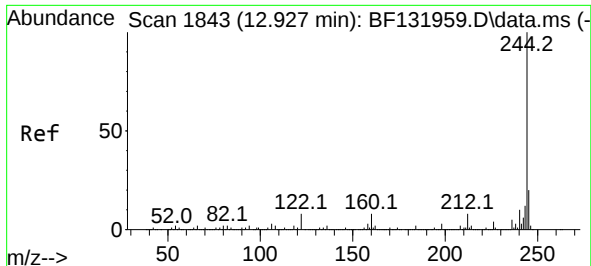


#78
Pyrene
Concen: 15.798 ng
RT: 12.757 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17



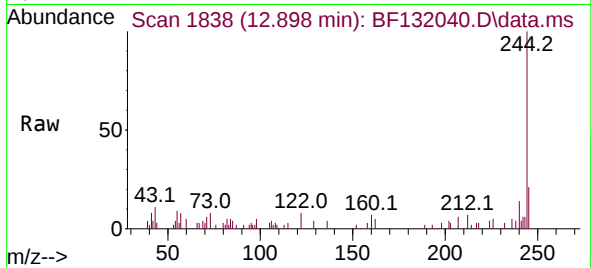
Tgt Ion:202 Resp: 221345
Ion Ratio Lower Upper
202 100
200 20.0 17.0 25.6
203 16.9 14.1 21.1





#79
 Terphenyl-d14
 Concen: 0.606 ng
 RT: 12.898 min Scan# 1843
 Delta R.T. -0.006 min
 Lab File: BF132040.D
 Acq: 12 Jan 2023 14:17

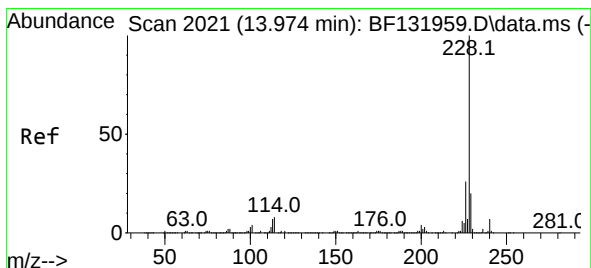
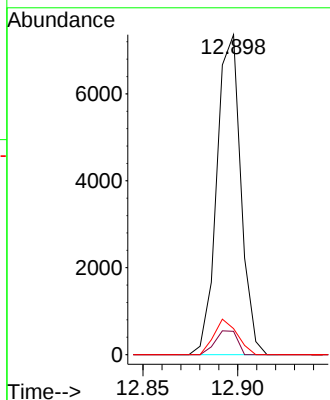
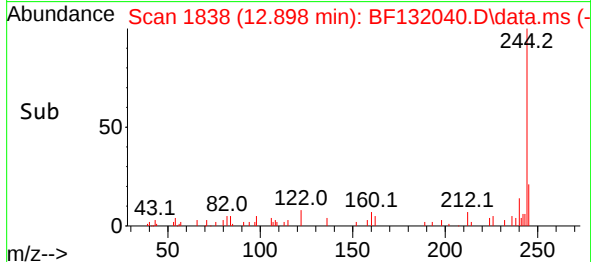
Instrument :
 BNA_F
 ClientSampleId :



Tgt Ion:244 Resp: 6497
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.3 9.5
 122 8.1 6.8 10.2

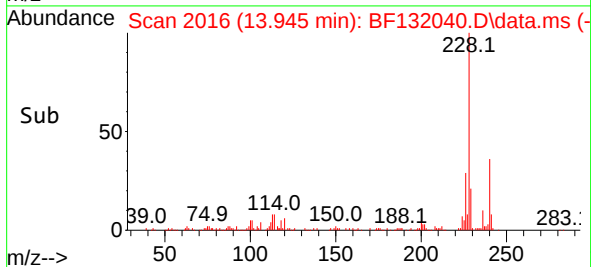
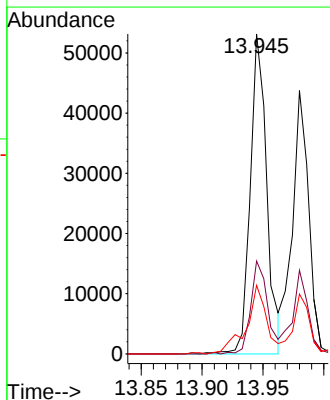
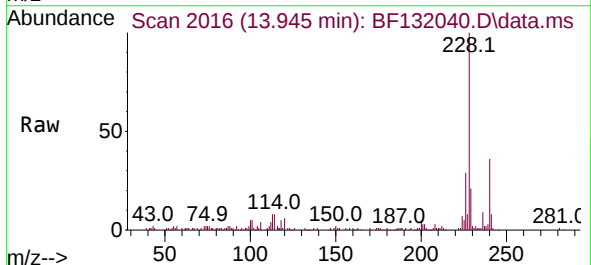
Manual Integrations
 APPROVED

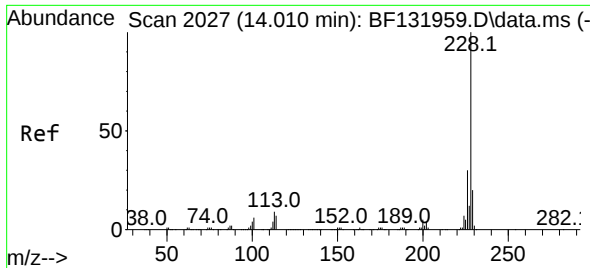
Reviewed By :Jagrut Upadhyay 01/13/2023
 Supervised By :mohammad ahmed 01/13/2023



#81
 Benzo(a)anthracene
 Concen: 4.482 ng
 RT: 13.945 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: BF132040.D
 Acq: 12 Jan 2023 14:17

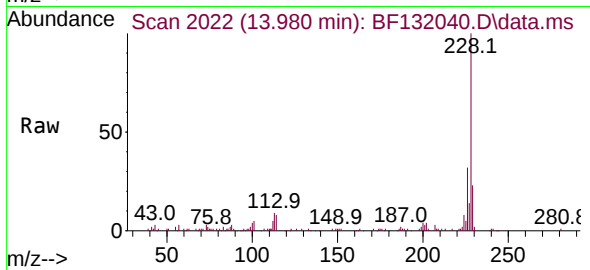
Tgt Ion:228 Resp: 50095
 Ion Ratio Lower Upper
 228 100
 226 29.0 21.0 31.4
 229 21.4 15.8 23.6





#83
Chrysene
Concen: 3.963 ng
RT: 13.980 min Scan# 2027
Delta R.T. -0.012 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

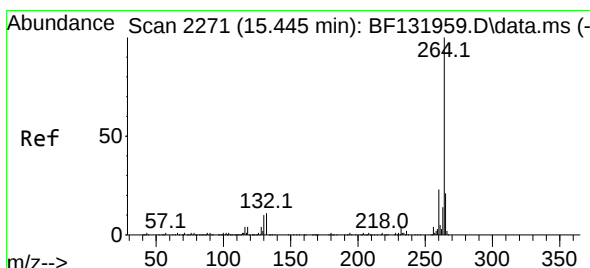
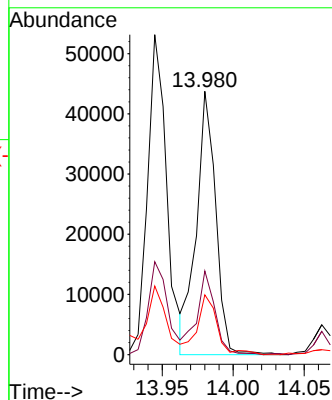
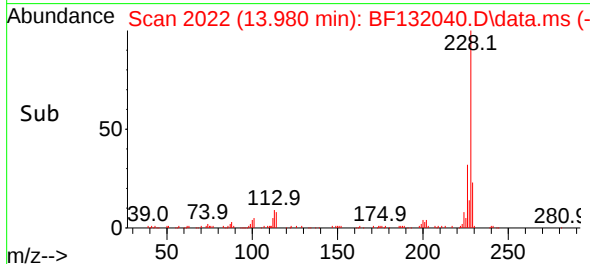
Instrument :
BNA_F
ClientSampleId :



Tgt Ion:228 Resp: 41397
Ion Ratio Lower Upper
228 100
226 31.7 24.0 36.0
229 22.7 16.2 24.4

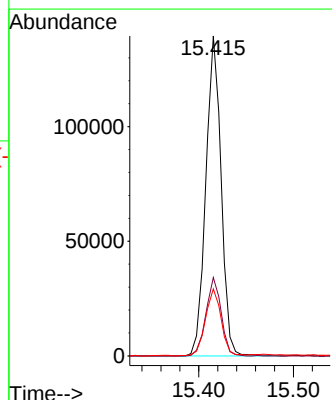
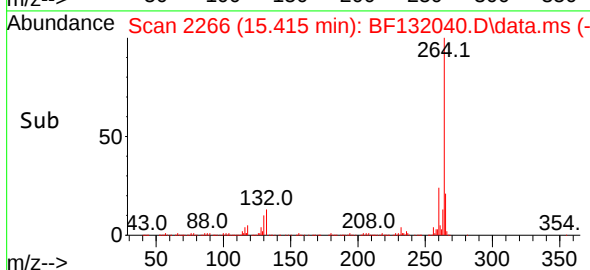
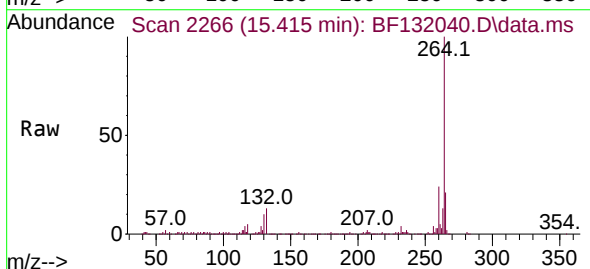
Manual Integrations
APPROVED

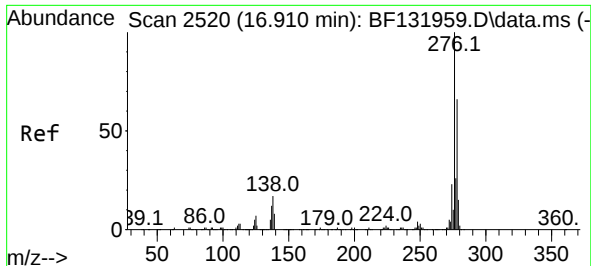
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

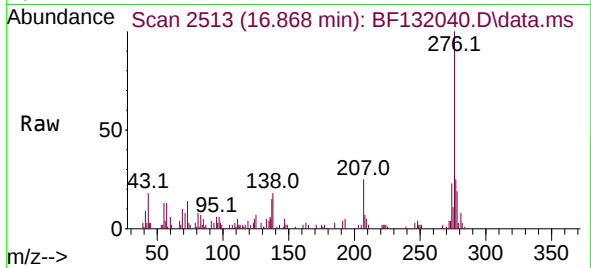
Tgt Ion:264 Resp: 156596
Ion Ratio Lower Upper
264 100
260 24.5 18.3 27.5
265 20.9 16.9 25.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 2.540 ng
RT: 16.868 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

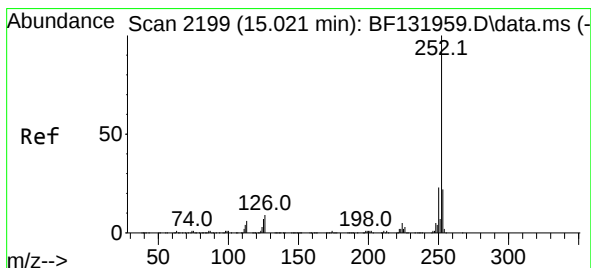
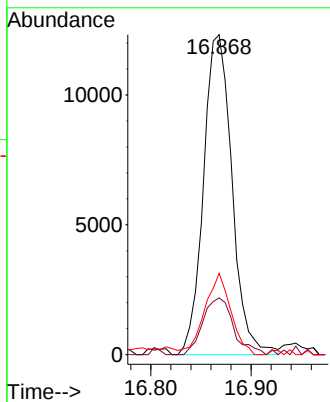
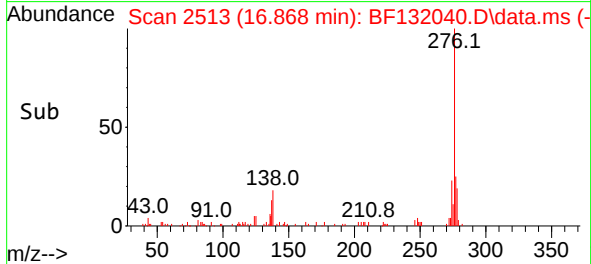
Instrument :
BNA_F
ClientSampleId :



Tgt Ion:276 Resp: 24392
Ion Ratio Lower Upper
276 100
138 19.0 14.2 21.2
277 23.3 20.2 30.4

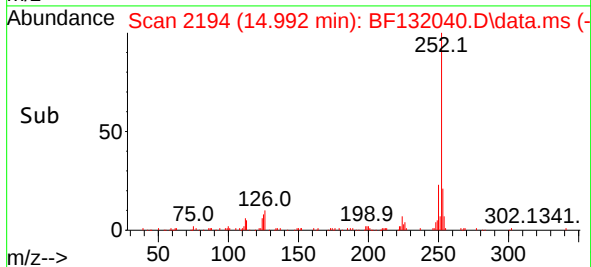
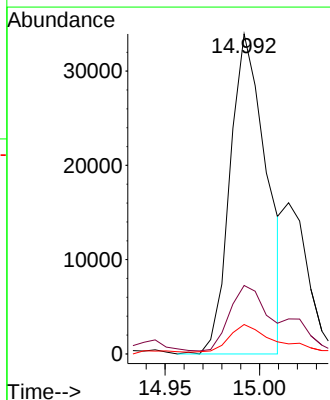
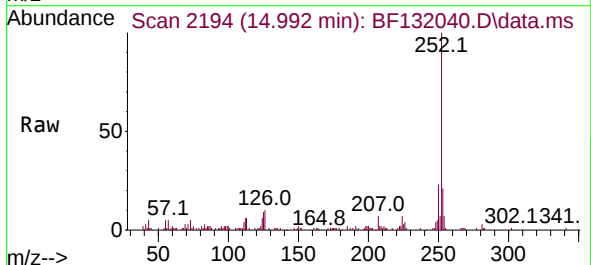
Manual Integrations
APPROVED

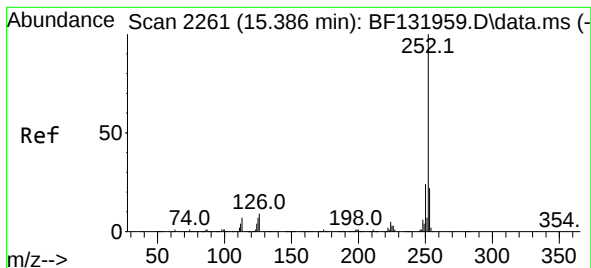
Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#88
Benzo(b)fluoranthene
Concen: 4.246 ng m
RT: 14.992 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF132040.D
Acq: 12 Jan 2023 14:17

Tgt Ion:252 Resp: 45607
Ion Ratio Lower Upper
252 100
253 21.4 18.0 27.0
125 9.2 5.8 8.6#





#90

Benzo(a)pyrene

Concen: 3.669 ng

RT: 15.351 min Scan# 2261

Delta R.T. -0.012 min

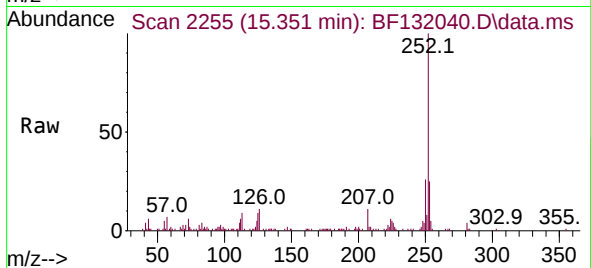
Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

Instrument :

BNA_F

ClientSampleId :

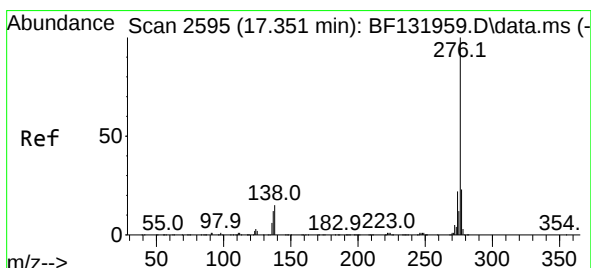
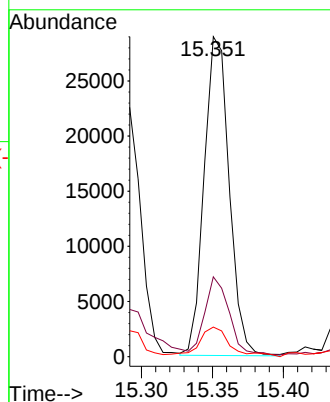
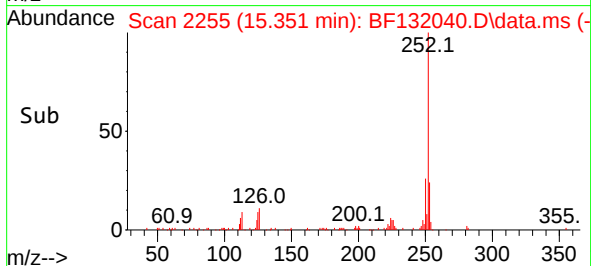


Tgt Ion:	252	Resp:	35508
Ion Ratio	Lower	Upper	
252	100		
253	24.9	17.4	26.0
125	9.2	5.7	8.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/13/2023
Supervised By :mohammad ahmed 01/13/2023



#92

Benzo(g,h,i)perylene

Concen: 6.089 ng

RT: 17.303 min Scan# 2587

Delta R.T. -0.012 min

Lab File: BF132040.D

Acq: 12 Jan 2023 14:17

Tgt Ion:	276	Resp:	23860
Ion Ratio	Lower	Upper	
276	100		
277	22.4	18.2	27.2
138	16.5	11.7	17.5

