

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
 Data File : BF133567.D
 Acq On : 05 Jun 2023 15:57
 Operator : CG\JU
 Sample : 02988-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1644

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/06/2023
 Supervised By :mohammad ahmed 06/08/2023

Quant Time: Jun 05 17:51:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 17:49:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	138087	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	494664	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	213063	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	372590	20.000	ng	0.00
76) Chrysene-d12	14.004	240	211507	20.000	ng	0.00
86) Perylene-d12	15.468	264	177686	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	497805	60.148	ng	0.00
7) Phenol-d6	6.451	99	580259	56.954	ng	0.00
23) Nitrobenzene-d5	7.392	82	350880	47.361	ng	0.00
42) 2,4,6-Tribromophenol	10.657	330	126483	59.554	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	661445	47.915	ng	0.00
79) Terphenyl-d14	12.945	244	612454	51.485	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.133	128	53440	2.228	ng	99
49) Acenaphthylene	9.727	152	229102	10.701	ng	98
52) Acenaphthene	9.898	154	39037	3.010	ng	97
55) Dibenzofuran	10.074	168	39893	2.068	ng	# 92
58) Fluorene	10.416	166	77922	5.512	ng	96
71) Phenanthrene	11.380	178	580797	30.777	ng	100
72) Anthracene	11.433	178	298151m	15.351	ng	
75) Fluoranthene	12.574	202	1045851	50.173	ng	99
78) Pyrene	12.804	202	1284369	71.361	ng	100
81) Benzo(a)anthracene	13.992	228	464161m	32.943	ng	
83) Chrysene	14.033	228	489533	34.416	ng	96
87) Indeno(1,2,3-cd)pyrene	16.933	276	192253	16.986	ng	95
88) Benzo(b)fluoranthene	15.045	252	419965m	36.296	ng	
89) Benzo(k)fluoranthene	15.068	252	101273m	8.977	ng	
90) Benzo(a)pyrene	15.409	252	352480	33.479	ng	98
91) Dibenzo(a,h)anthracene	16.939	278	51769	5.641	ng	# 76
92) Benzo(g,h,i)perylene	17.374	276	231684	25.039	ng	95

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

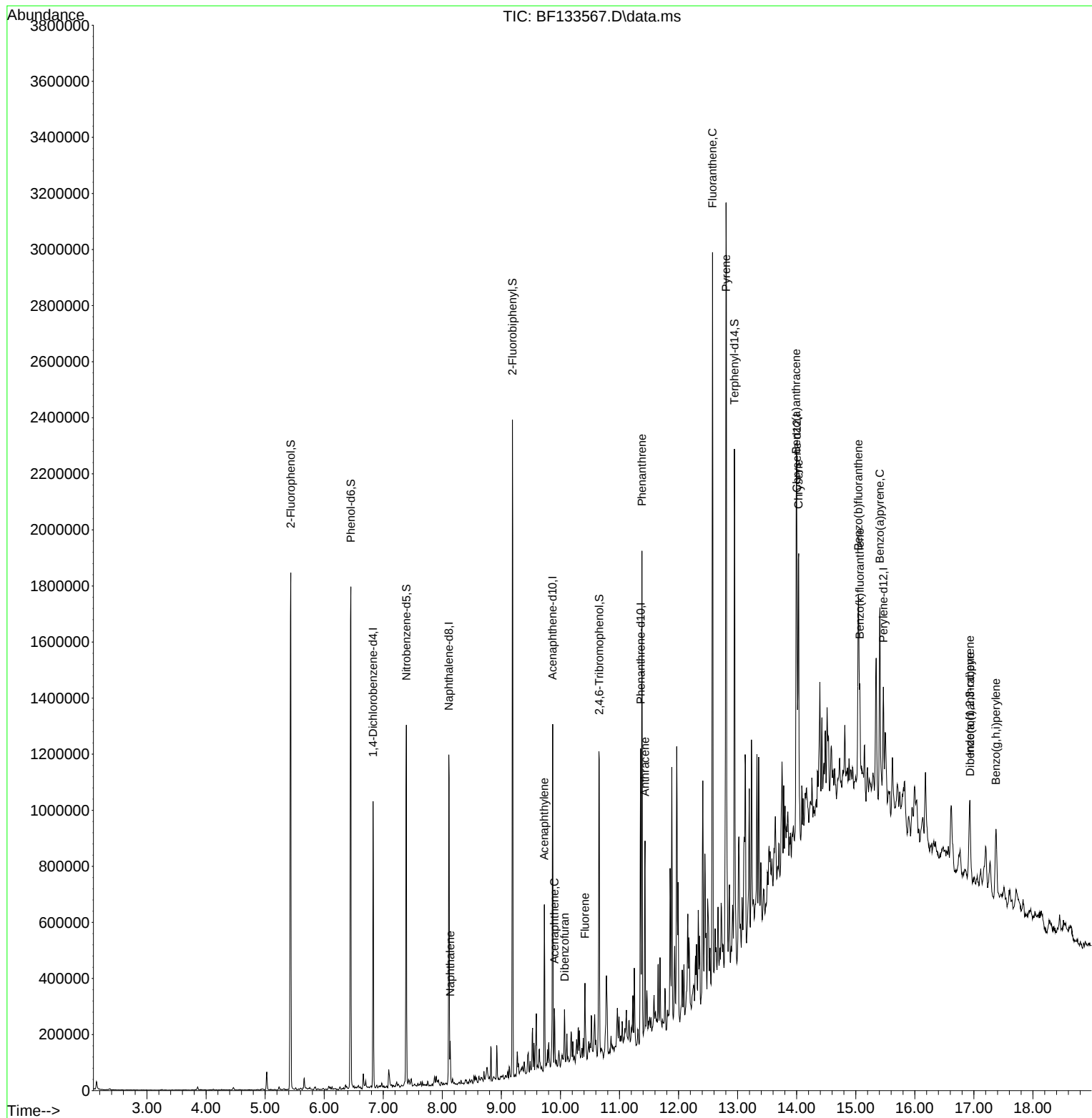
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
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ALS Vial : 8 Sample Multiplier: 1

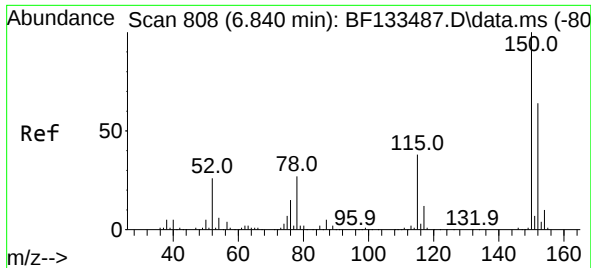
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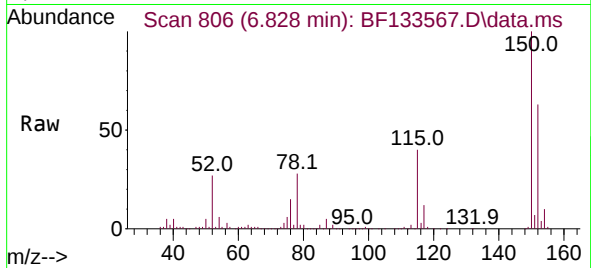
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 808
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

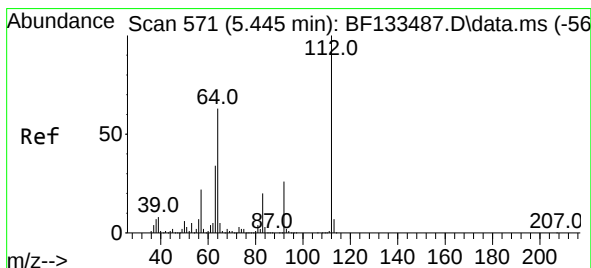
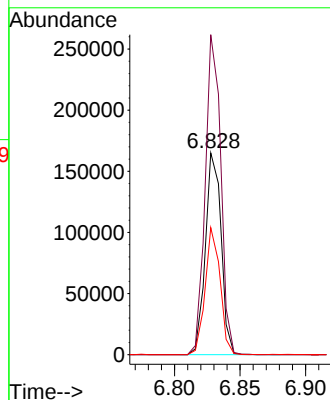
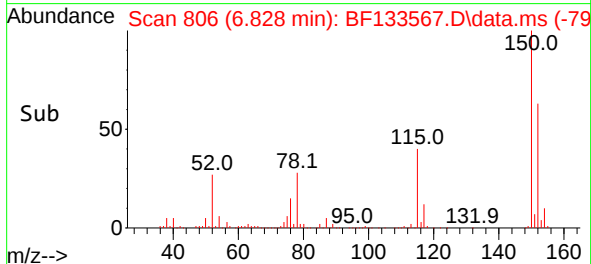
Instrument :
BNA_F
ClientSampleId :
ORA-1644



Tgt Ion:152 Resp: 13808
Ion Ratio Lower Upper
152 100
150 158.7 124.9 187.3
115 63.0 48.1 72.1

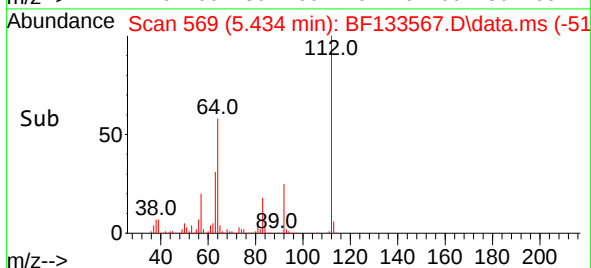
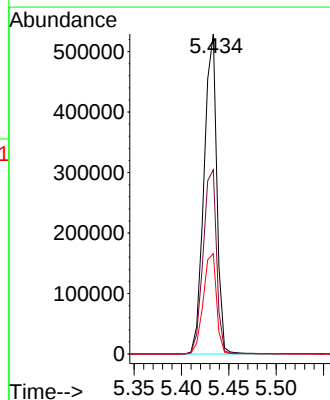
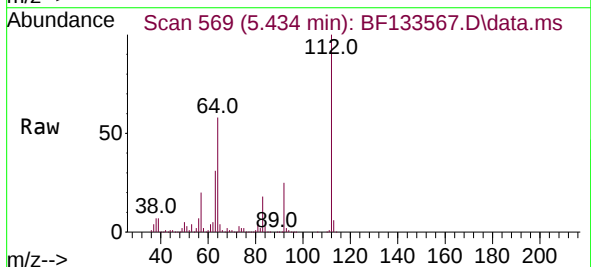
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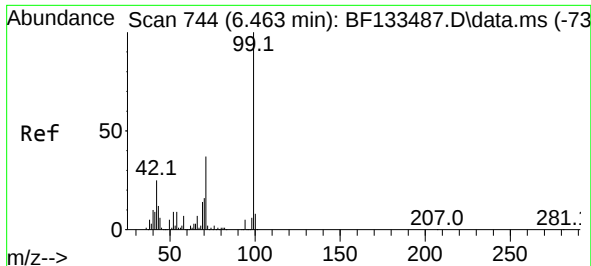
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#5
2-Fluorophenol
Concen: 60.148 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.000 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

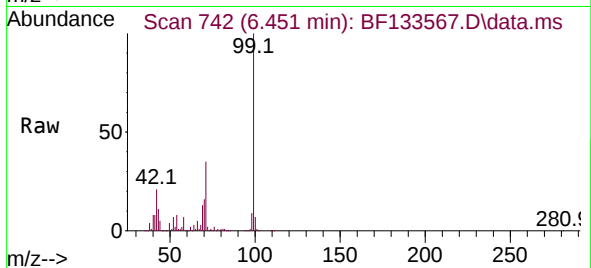
Tgt Ion:112 Resp: 497805
Ion Ratio Lower Upper
112 100
64 57.5 50.1 75.1
63 31.3 27.5 41.3





#7
Phenol-d6
Concen: 56.954 ng
RT: 6.451 min Scan# 744
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

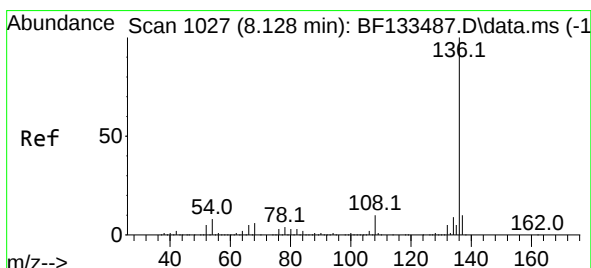
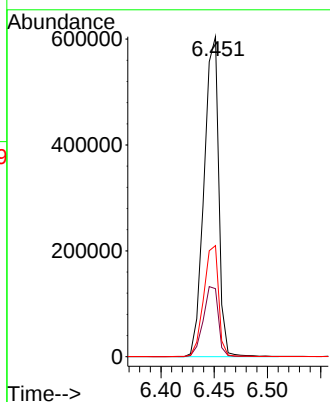
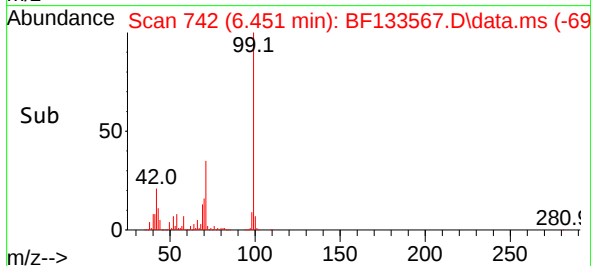
Instrument :
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ClientSampleId :
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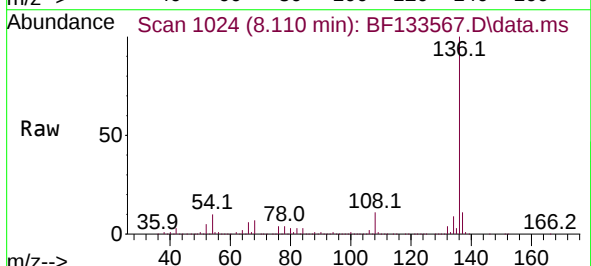
Tgt Ion: 99 Resp: 580259
Ion Ratio Lower Upper
99 100
42 21.2 19.7 29.5
71 34.7 29.8 44.8

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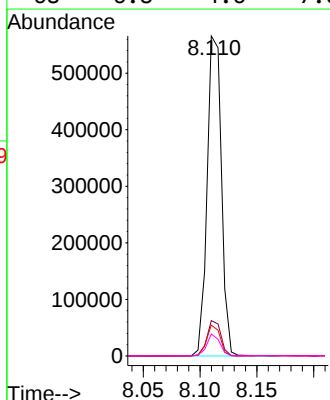
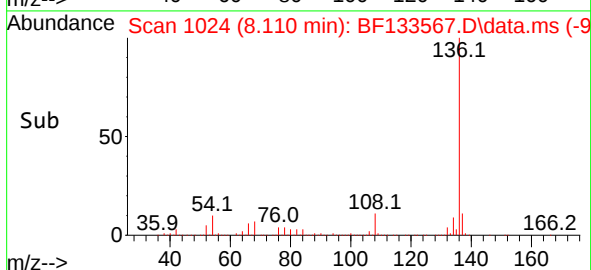
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023

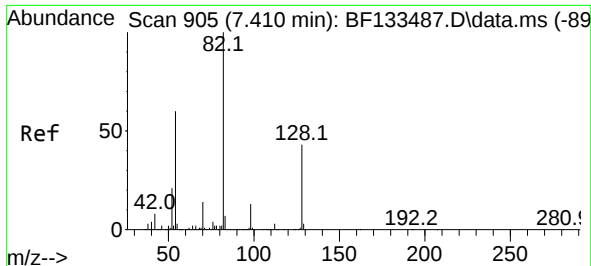


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57



Tgt Ion:136 Resp: 494664
Ion Ratio Lower Upper
136 100
137 11.0 8.2 12.4
54 9.6 6.6 10.0
68 6.8 4.6 7.0





#23

Nitrobenzene-d5

Concen: 47.361 ng

RT: 7.392 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Instrument :

BNA_F

ClientSampleId :

ORA-1644

Tgt Ion: 82 Resp: 350880

Ion Ratio Lower Upper

82 100

128 45.8 34.2 51.4

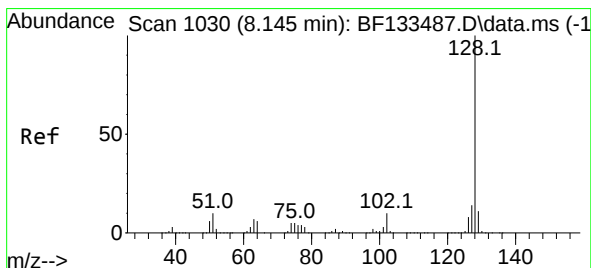
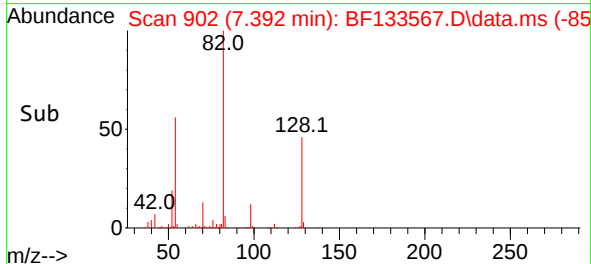
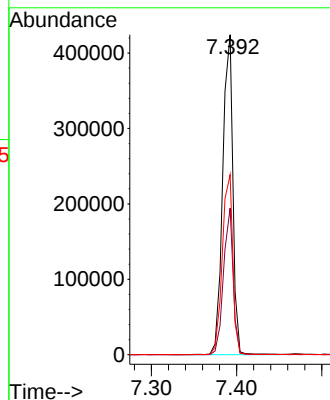
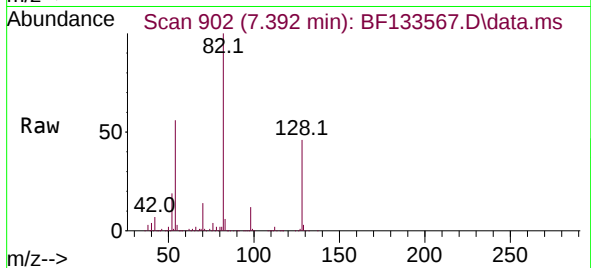
54 56.2 48.2 72.4

Manual Integrations

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#31

Naphthalene

Concen: 2.228 ng

RT: 8.133 min Scan# 1028

Delta R.T. -0.006 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

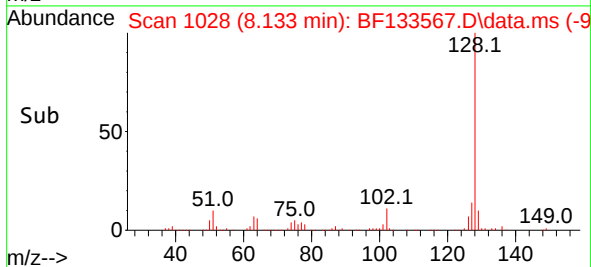
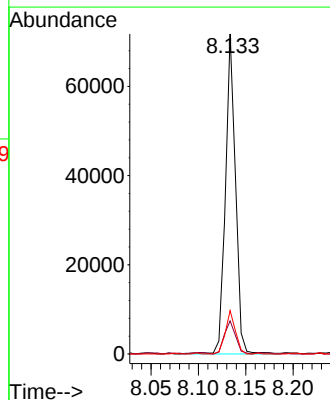
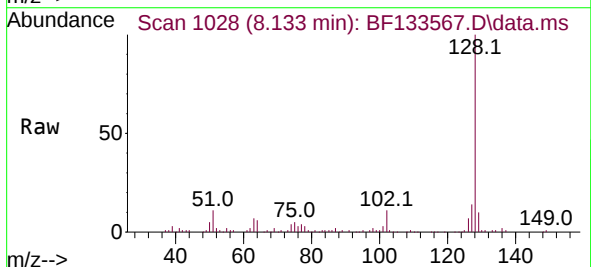
Tgt Ion:128 Resp: 53440

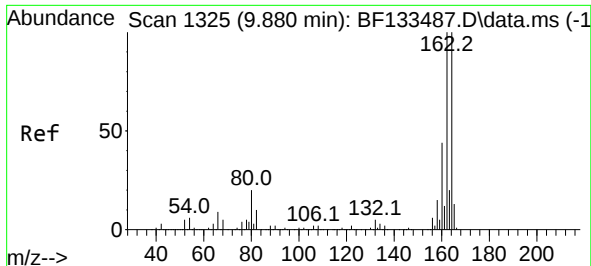
Ion Ratio Lower Upper

128 100

129 10.3 9.2 13.8

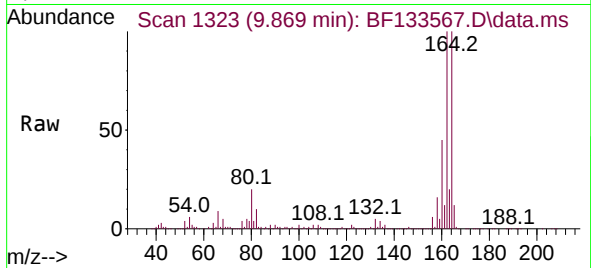
127 13.6 10.9 16.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

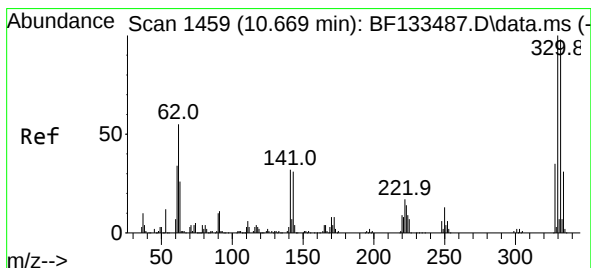
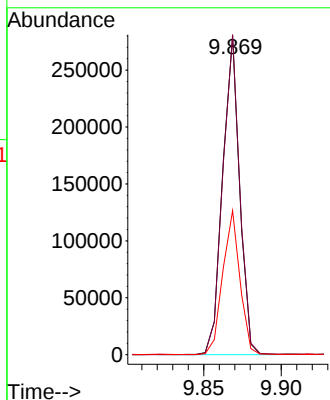
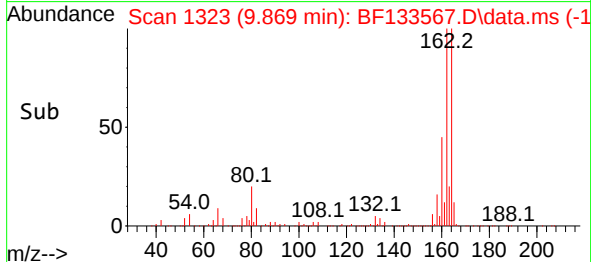
Instrument :
BNA_F
ClientSampleId :
ORA-1644



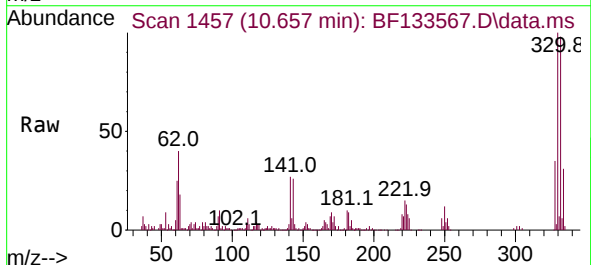
Tgt Ion:164 Resp: 21306
Ion Ratio Lower Upper
164 100
162 100.3 79.7 119.5
160 45.1 35.4 53.0

Manual Integrations
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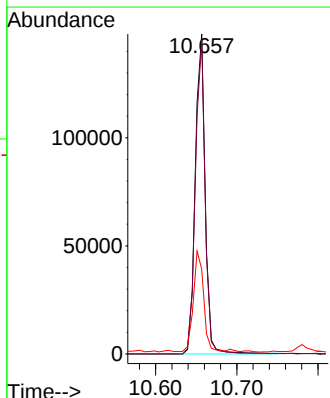
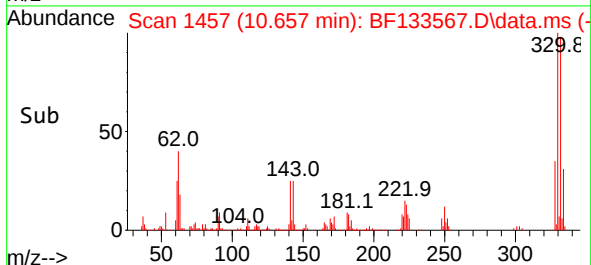
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023

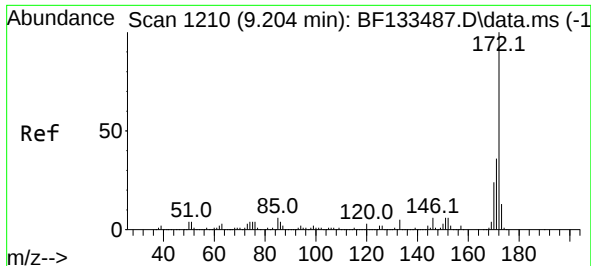


#42
2,4,6-Tribromophenol
Concen: 59.554 ng
RT: 10.657 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57



Tgt Ion:330 Resp: 126483
Ion Ratio Lower Upper
330 100
332 97.0 77.8 116.6
141 32.2 26.6 40.0





#45

2-Fluorobiphenyl

Concen: 47.915 ng

RT: 9.186 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Instrument :

BNA_F

ClientSampleId :

ORA-1644

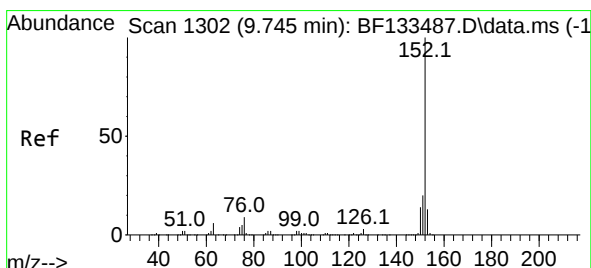
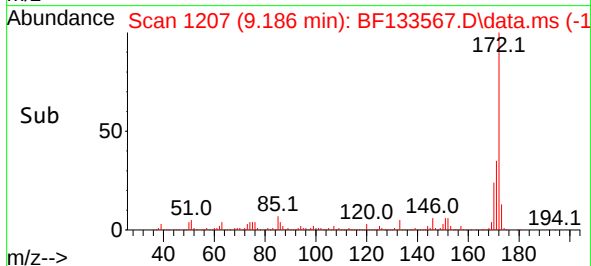
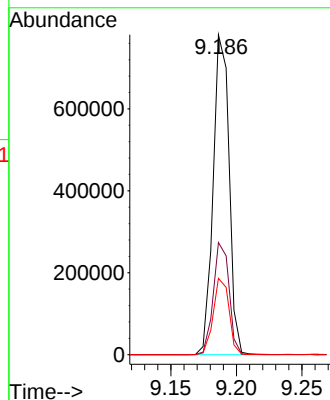
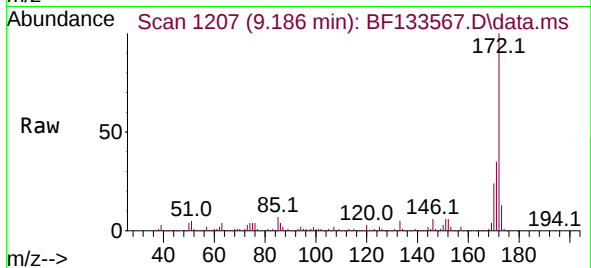
Tgt Ion:172 Resp: 661445
 Ion Ratio Lower Upper
 172 100
 171 35.1 28.4 42.6
 170 23.9 19.3 28.9

Manual Integrations

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Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#49

Acenaphthylene

Concen: 10.701 ng

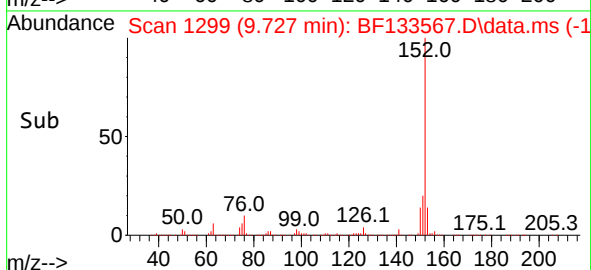
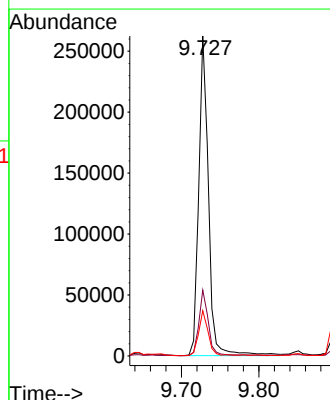
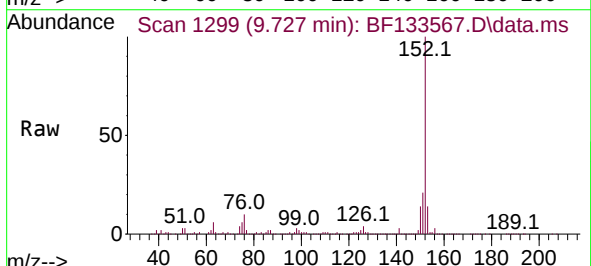
RT: 9.727 min Scan# 1299

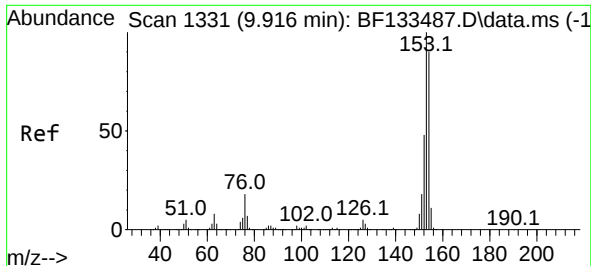
Delta R.T. -0.006 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Tgt Ion:152 Resp: 229102
 Ion Ratio Lower Upper
 152 100
 151 20.6 16.0 24.0
 153 14.1 10.4 15.6





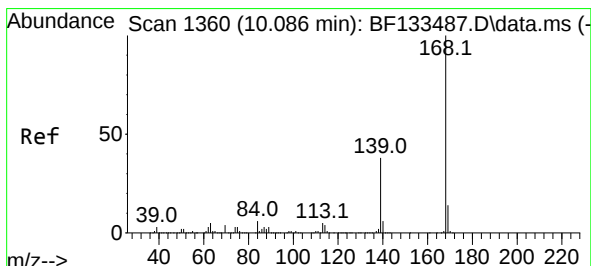
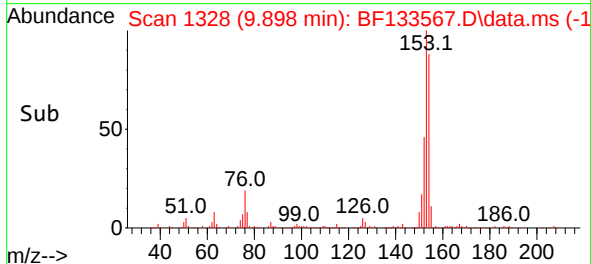
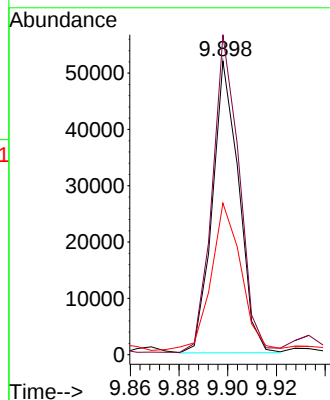
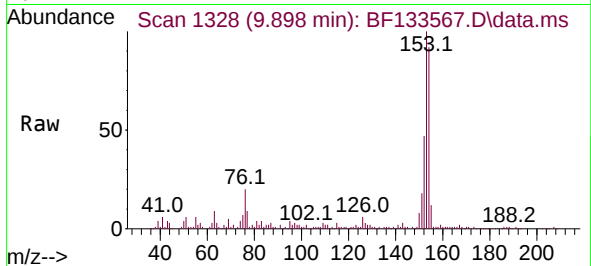
#52
Acenaphthene
Concen: 3.010 ng
RT: 9.898 min Scan# 1328
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

Instrument :
BNA_F
ClientSampleId :
ORA-1644

Tgt Ion:154 Resp: 3903
Ion Ratio Lower Upper
154 100
153 109.0 89.2 133.8
152 51.6 43.1 64.7

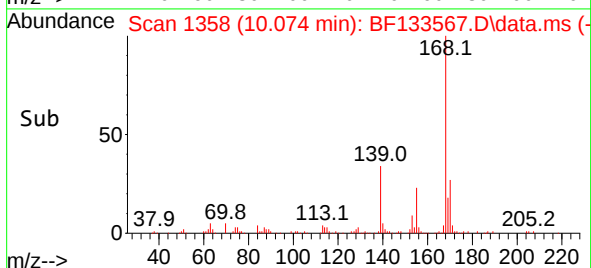
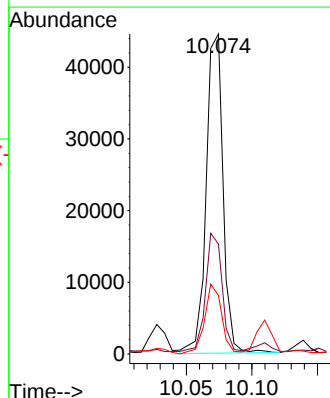
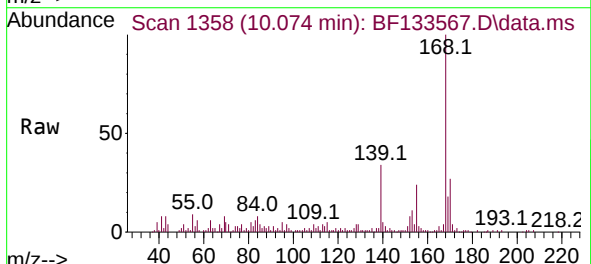
Manual Integrations
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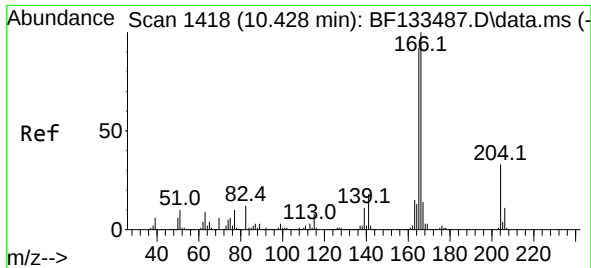
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#55
Dibenzofuran
Concen: 2.068 ng
RT: 10.074 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

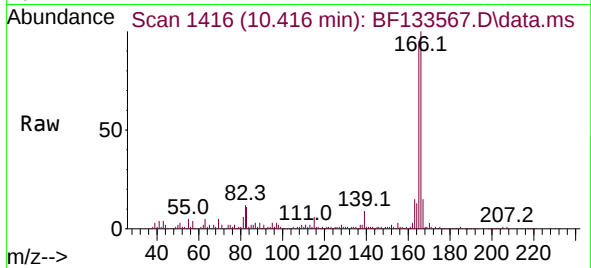
Tgt Ion:168 Resp: 39893
Ion Ratio Lower Upper
168 100
139 34.4 30.6 46.0
169 18.3 10.9 16.3#





#58
Fluorene
Concen: 5.512 ng
RT: 10.416 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

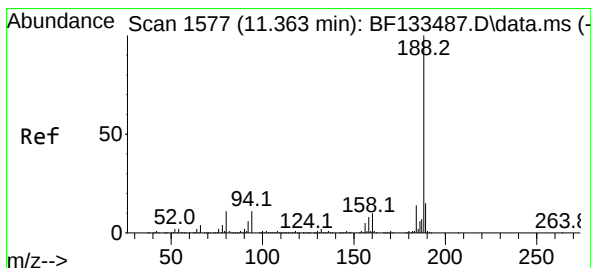
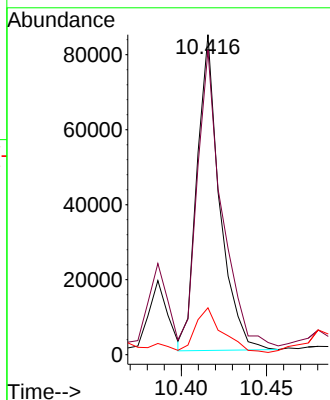
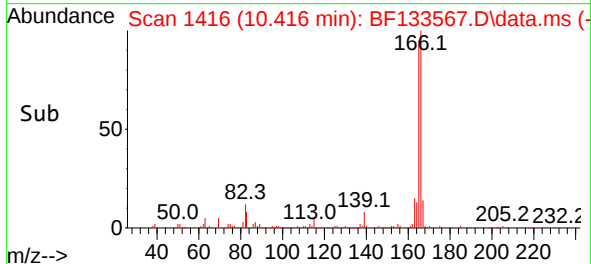
Instrument :
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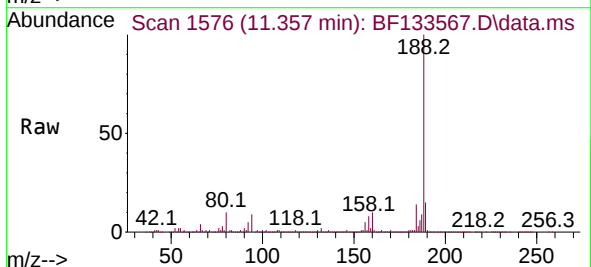
Tgt Ion:166 Resp: 7792
Ion Ratio Lower Upper
166 100
165 95.2 73.4 110.0
167 14.7 10.9 16.3

Manual Integrations
APPROVED

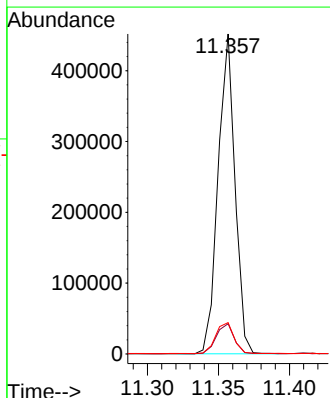
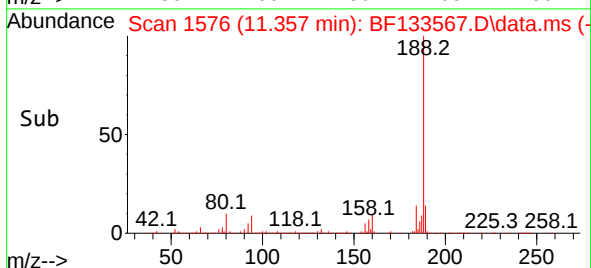
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023

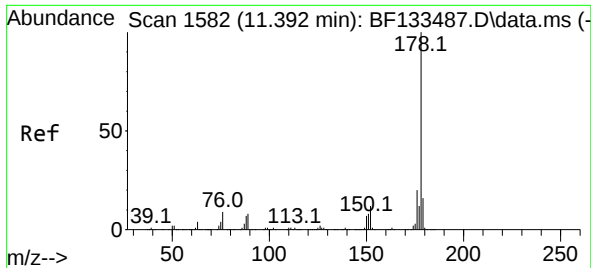


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57



Tgt Ion:188 Resp: 372590
Ion Ratio Lower Upper
188 100
94 9.4 8.6 12.8
80 9.8 9.2 13.8





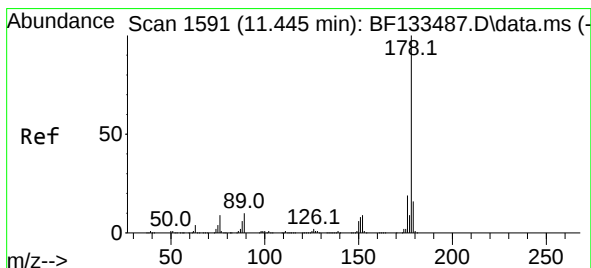
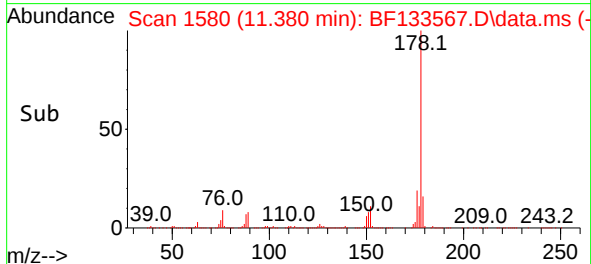
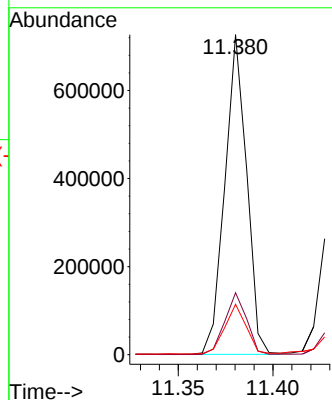
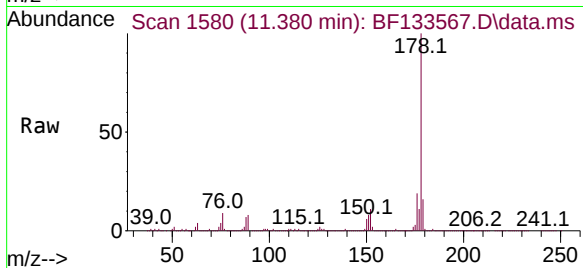
#71
Phenanthrene
Concen: 30.777 ng
RT: 11.380 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

Instrument :
BNA_F
ClientSampleId :
ORA-1644

Tgt Ion:178 Resp: 58079
Ion Ratio Lower Upper
178 100
176 19.4 15.6 23.4
179 15.8 12.4 18.6

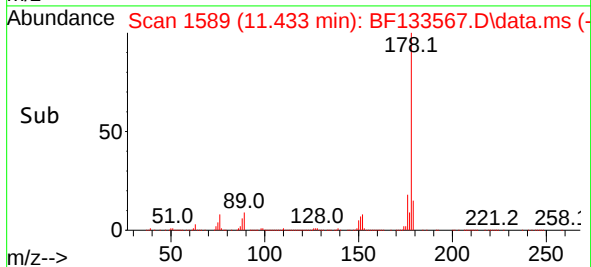
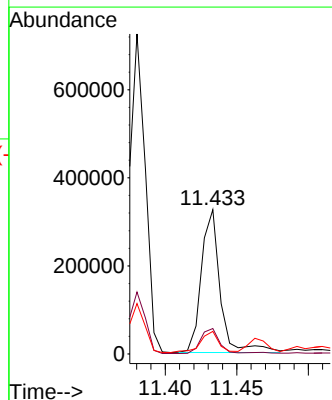
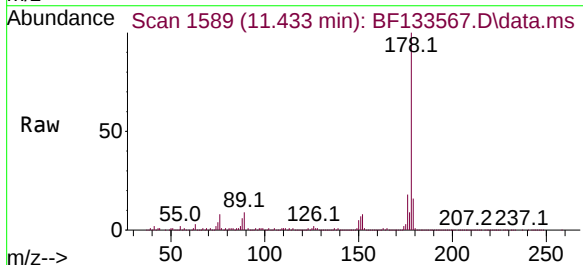
Manual Integrations
APPROVED

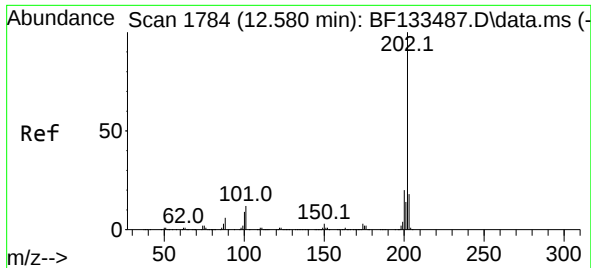
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#72
Anthracene
Concen: 15.351 ng m
RT: 11.433 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

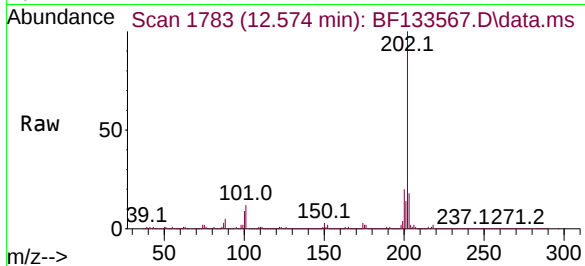
Tgt Ion:178 Resp: 298151
Ion Ratio Lower Upper
178 100
176 17.7 15.3 22.9
179 15.6 12.6 18.8





#75
Fluoranthene
Concen: 50.173 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

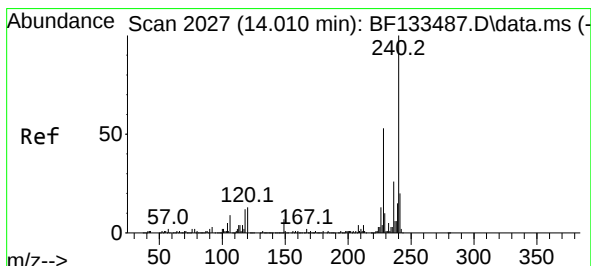
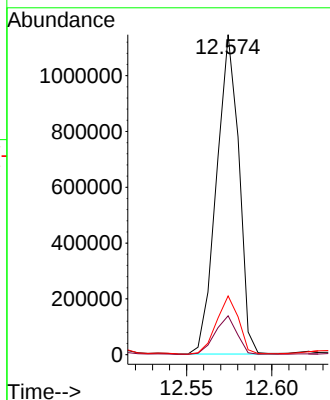
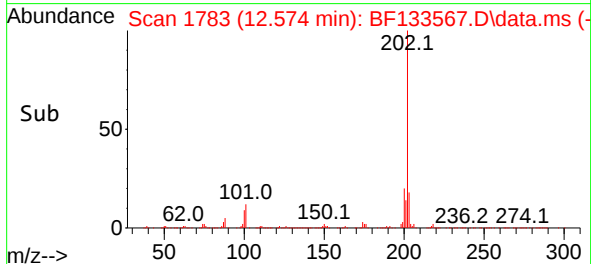
Instrument :
BNA_F
ClientSampleId :
ORA-1644



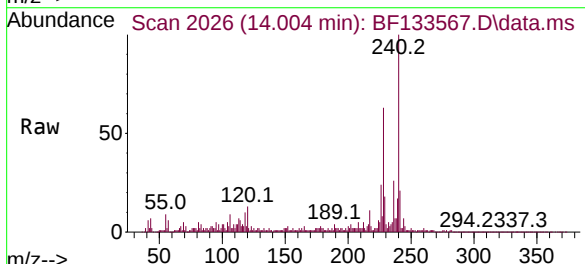
Tgt Ion:202 Resp: 104585
Ion Ratio Lower Upper
202 100
101 12.1 0.0 32.2
203 18.4 0.0 37.8

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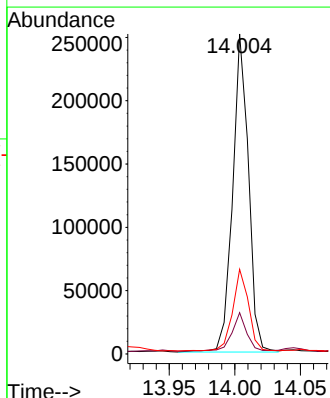
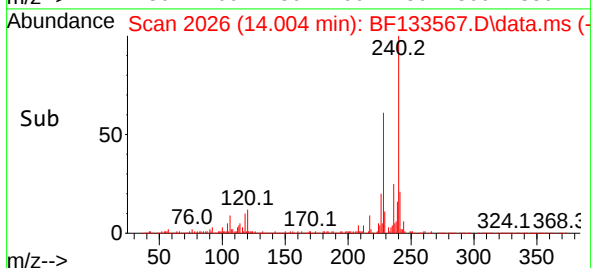
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023

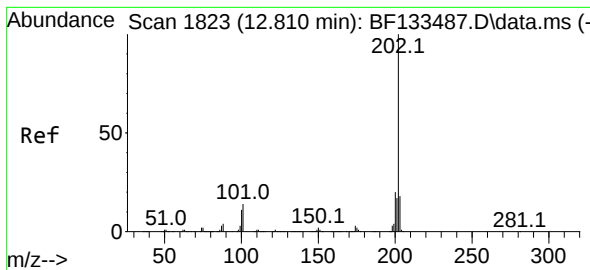


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57



Tgt Ion:240 Resp: 211507
Ion Ratio Lower Upper
240 100
120 12.9 10.3 15.5
236 26.4 20.5 30.7





#78

Pyrene

Concen: 71.361 ng

RT: 12.804 min Scan# 1822

Delta R.T. -0.000 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Instrument :

BNA_F

ClientSampleId :

ORA-1644

Tgt Ion:202 Resp: 128436

Ion Ratio Lower Upper

202 100

200 20.4 16.3 24.5

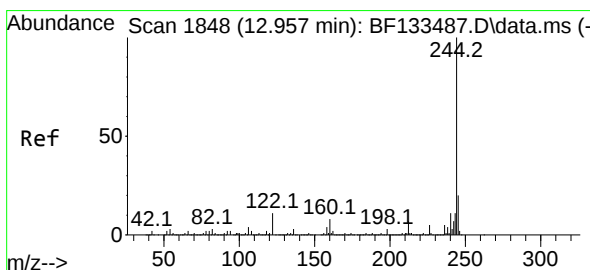
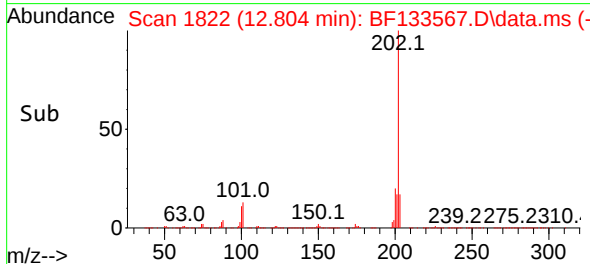
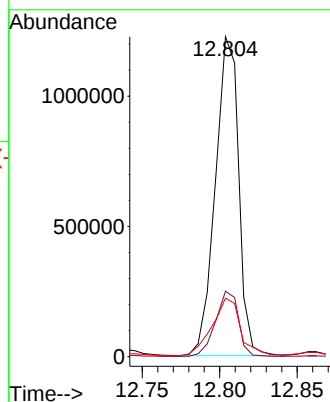
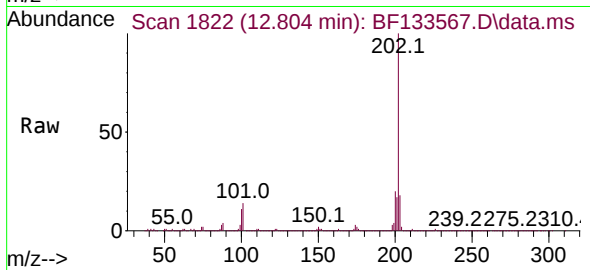
203 18.3 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#79

Terphenyl-d14

Concen: 51.485 ng

RT: 12.945 min Scan# 1846

Delta R.T. -0.000 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

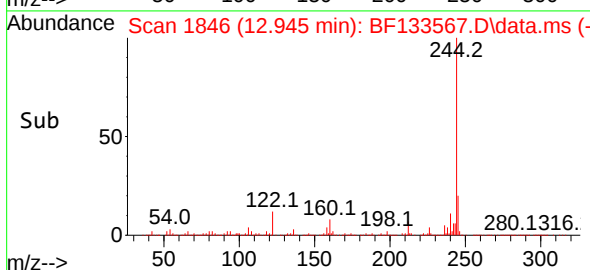
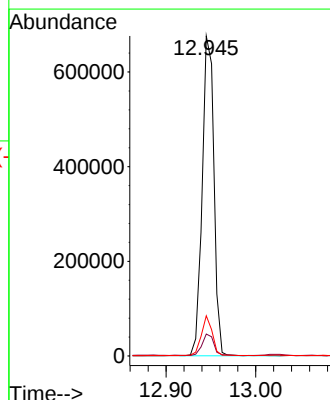
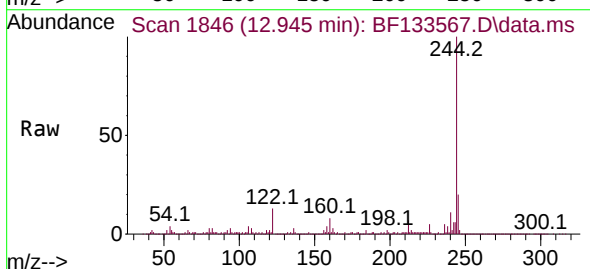
Tgt Ion:244 Resp: 612454

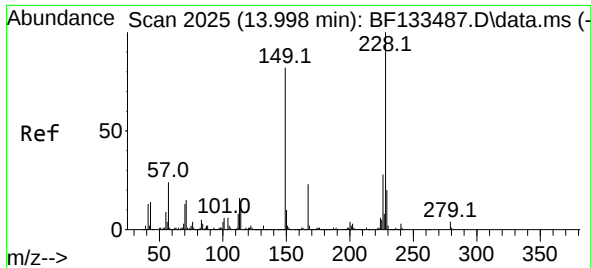
Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

122 12.5 8.5 12.7





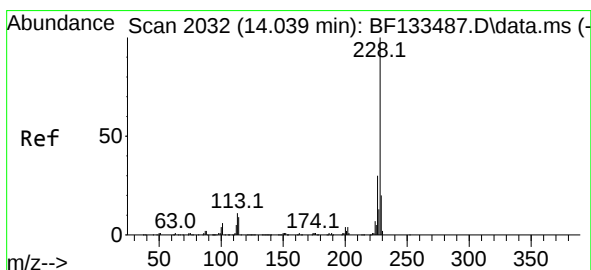
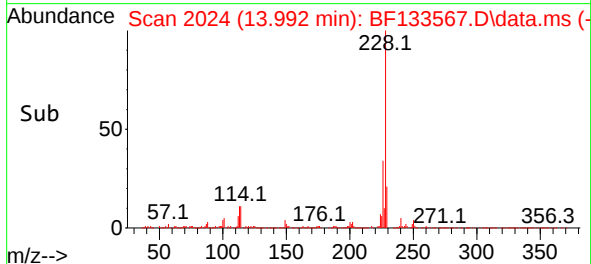
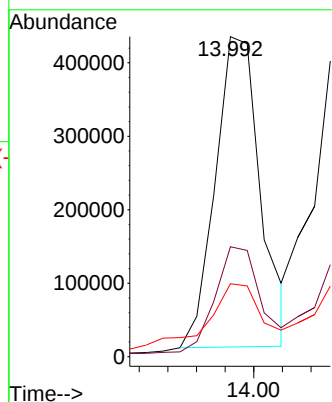
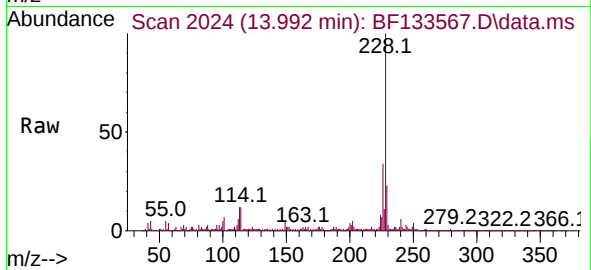
#81
Benzo(a)anthracene
Concen: 32.943 ng m
RT: 13.992 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

Instrument :
BNA_F
ClientSampleId :
ORA-1644

Tgt Ion:228 Resp: 46416
Ion Ratio Lower Upper
228 100
226 34.3 22.3 33.5
229 22.8 16.1 24.1

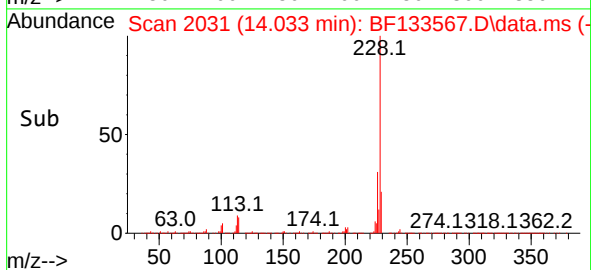
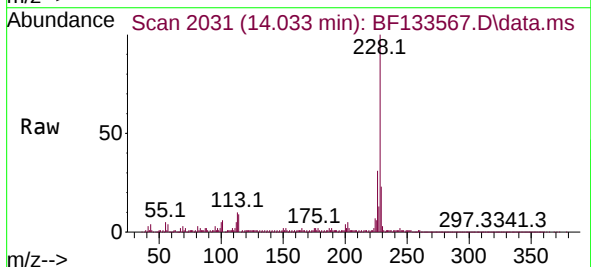
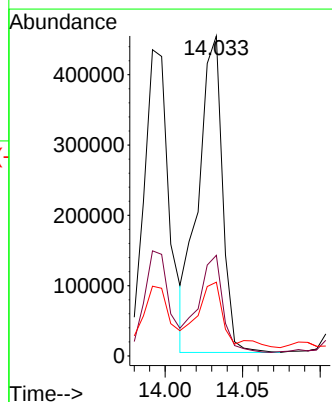
Manual Integrations
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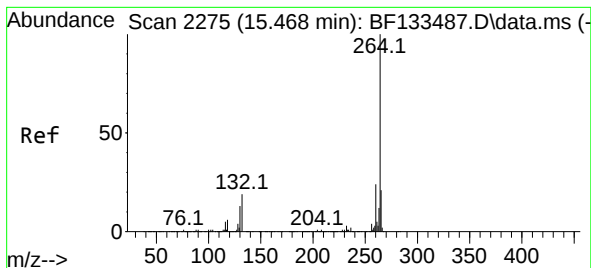
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#83
Chrysene
Concen: 34.416 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

Tgt Ion:228 Resp: 489533
Ion Ratio Lower Upper
228 100
226 31.5 24.1 36.1
229 23.1 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Instrument :

BNA_F

ClientSampleId :

ORA-1644

Tgt Ion:264 Resp: 177680

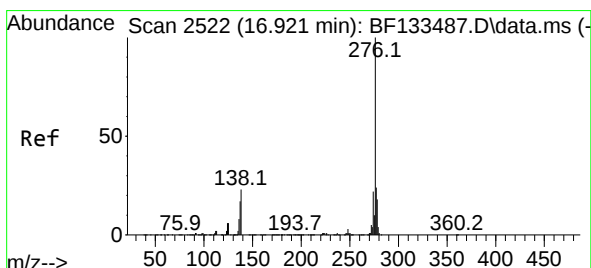
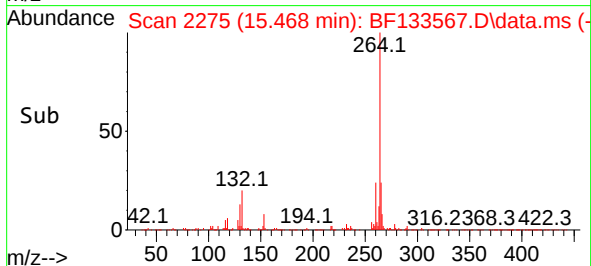
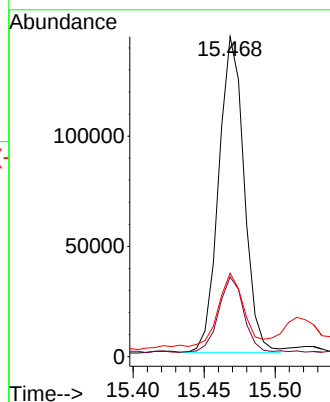
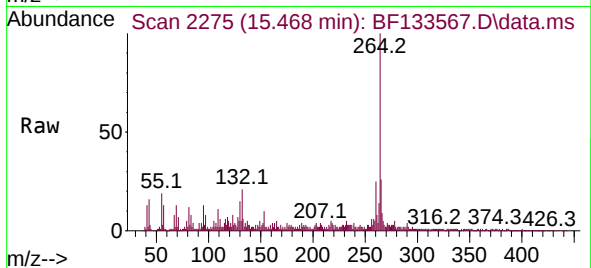
Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.0	28.4
265	26.1	16.8	25.2

Manual Integrations

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Reviewed By :Yogesh Patel 06/06/2023

Supervised By :mohammad ahmed 06/08/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 16.986 ng

RT: 16.933 min Scan# 2524

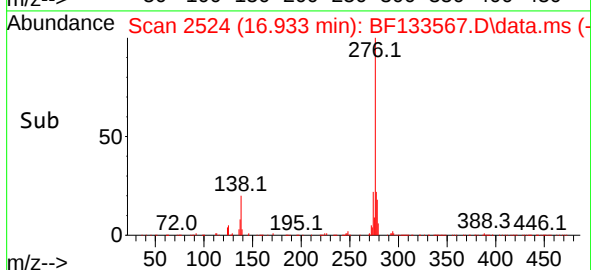
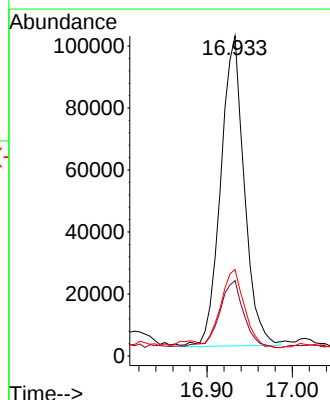
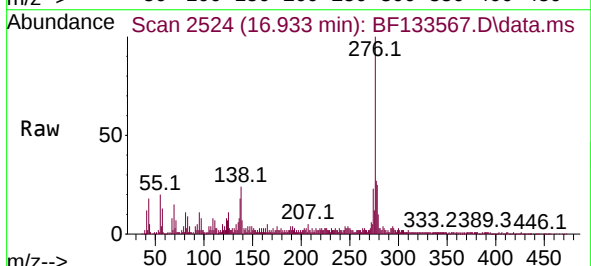
Delta R.T. 0.024 min

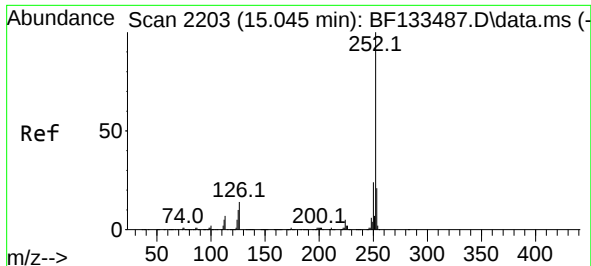
Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Tgt Ion:276 Resp: 192253

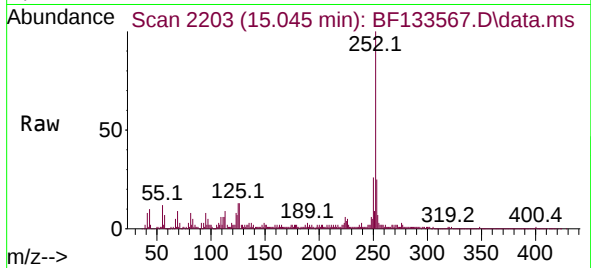
Ion	Ratio	Lower	Upper
276	100		
138	22.6	21.4	32.2
277	25.7	20.0	30.0





#88
Benzo(b)fluoranthene
Concen: 36.296 ng m
RT: 15.045 min Scan# 2196
Delta R.T. 0.012 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

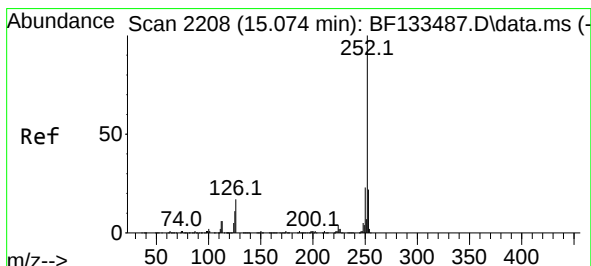
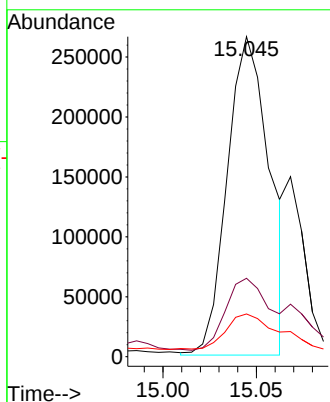
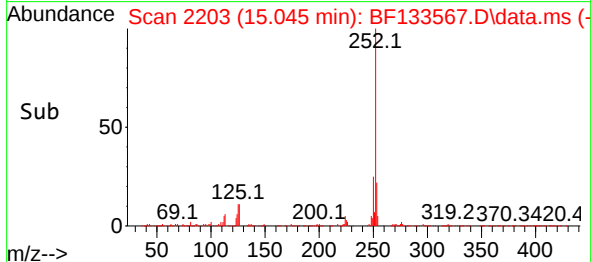
Instrument :
BNA_F
ClientSampleId :
ORA-1644



Tgt Ion:252 Resp: 41996
Ion Ratio Lower Upper
252 100
253 24.5 17.2 25.8
125 13.3 8.1 12.1

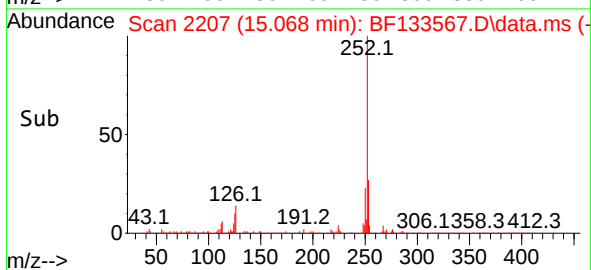
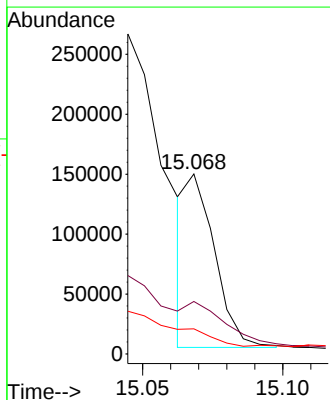
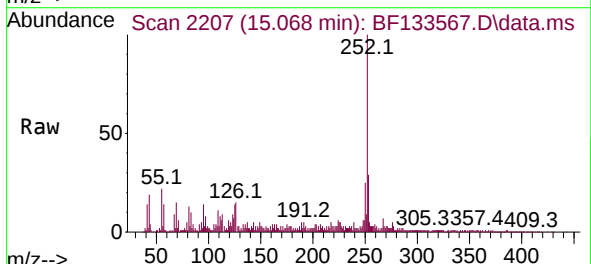
Manual Integrations
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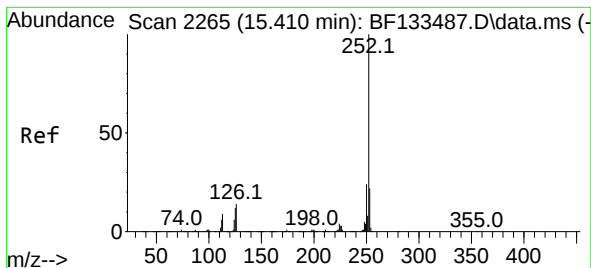
Reviewed By :Yogesh Patel 06/06/2023
Supervised By :mohammad ahmed 06/08/2023



#89
Benzo(k)fluoranthene
Concen: 8.977 ng m
RT: 15.068 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BF133567.D
Acq: 05 Jun 2023 15:57

Tgt Ion:252 Resp: 101273
Ion Ratio Lower Upper
252 100
253 29.2 17.4 26.2#
125 14.0 8.3 12.5#





#90

Benzo(a)pyrene

Concen: 33.479 ng

RT: 15.409 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

Instrument :

BNF

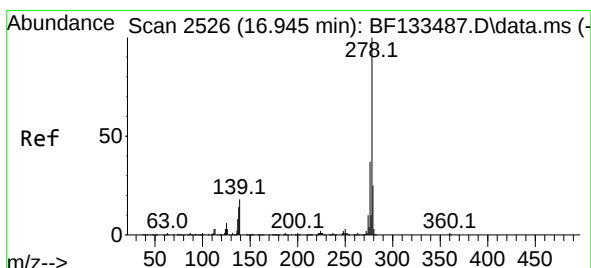
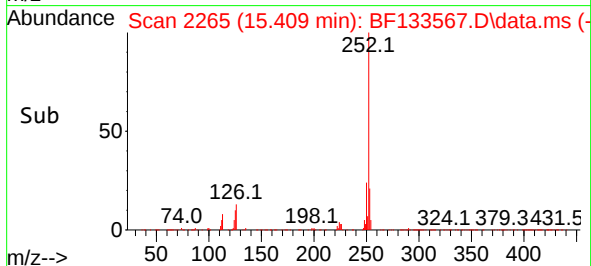
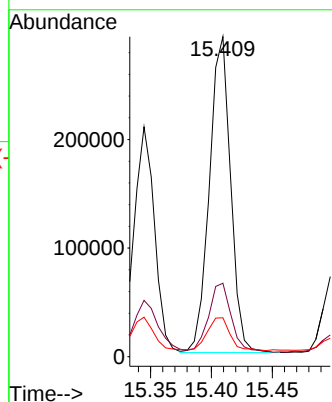
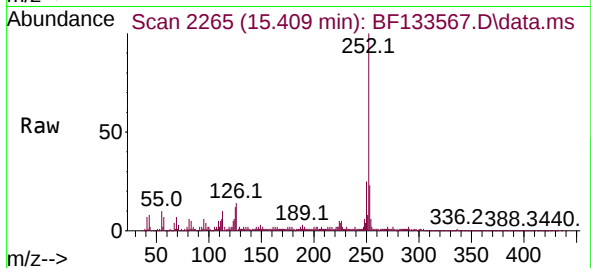
ClientSampleId :

ORA-1644

Tgt Ion:252 Resp: 352480
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 12.1 9.4 14.0

Manual Integrations
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Reviewed By :Yogesh Patel 06/06/2023
 Supervised By :mohammad ahmed 06/08/2023



#91

Dibenzo(a,h)anthracene

Concen: 5.641 ng

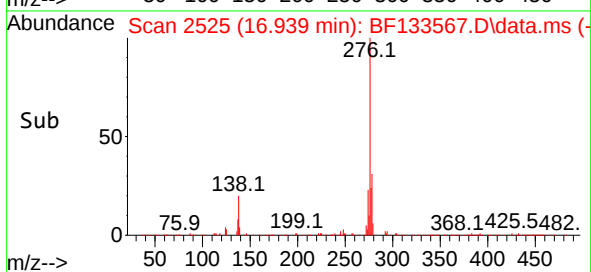
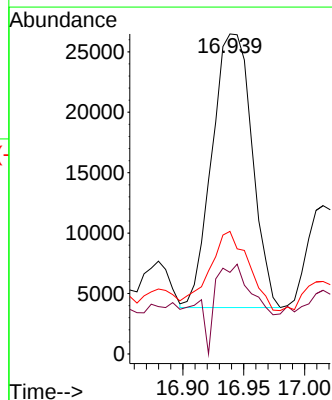
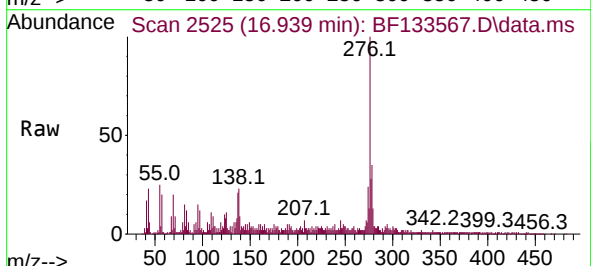
RT: 16.939 min Scan# 2525

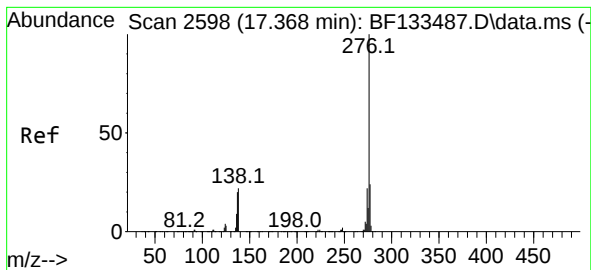
Delta R.T. 0.012 min

Lab File: BF133567.D

Acq: 05 Jun 2023 15:57

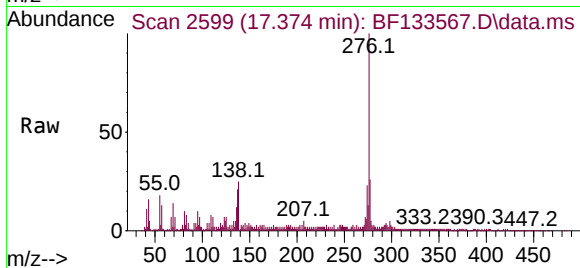
Tgt Ion:278 Resp: 51769
 Ion Ratio Lower Upper
 278 100
 139 25.5 14.1 21.1#
 279 38.3 19.7 29.5#





#92
 Benzo(g,h,i)perylene
 Concen: 25.039 ng
 RT: 17.374 min Scan# 21
 Delta R.T. 0.029 min
 Lab File: BF133567.D
 Acq: 05 Jun 2023 15:57

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1644



Tgt Ion: 276 Resp: 231684
 Ion Ratio Lower Upper
 276 100
 277 25.8 18.8 28.2
 138 25.0 17.8 26.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/06/2023
 Supervised By :mohammad ahmed 06/08/2023

