

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121222\
 Data File : BF131605.D
 Acq On : 12 Dec 2022 21:50
 Operator : CG\JU
 Sample : N5964-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-518-COMP-03

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/13/2022
 Supervised By : Jagrut Upadhyay 12/13/2022

Quant Time: Dec 13 04:18:38 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 13 04:12:13 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	60182	20.000	ng	0.00
21) Naphthalene-d8	8.180	136	194181	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	92200	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	154797	20.000	ng	0.00
76) Chrysene-d12	14.115	240	135774	20.000	ng	# 0.01
86) Perylene-d12	15.633	264	109654	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	397399	110.162	ng	0.00
7) Phenol-d6	6.534	99	496497	105.028	ng	0.00
23) Nitrobenzene-d5	7.457	82	343076	66.796	ng	-0.01
42) 2,4,6-Tribromophenol	10.739	330	96463	94.168	ng	-0.01
45) 2-Fluorobiphenyl	9.263	172	500283	68.416	ng	0.00
79) Terphenyl-d14	13.039	244	472521	47.728	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.204	128	27718	2.534	ng	97
37) 2-Methylnaphthalene	8.898	142	21057	2.815	ng	96
38) 1-Methylnaphthalene	8.998	142	21623	3.012	ng	97
49) Acenaphthylene	9.810	152	177936	20.404	ng	99
52) Acenaphthene	9.980	154	16855	2.885	ng	# 89
55) Dibenzofuran	10.151	168	16917	2.049	ng	# 89
58) Fluorene	10.498	166	54770	8.162	ng	100
71) Phenanthrene	11.474	178	479167	55.535	ng	99
72) Anthracene	11.521	178	188038	22.400	ng	99
73) Carbazole	11.680	167	21879	3.193	ng	# 90
75) Fluoranthene	12.680	202	1515851	170.612	ng	99
78) Pyrene	12.910	202	1740325	129.991	ng	98
81) Benzo(a)anthracene	14.104	228	1167877	119.110	ng	94
83) Chrysene	14.145	228	1062848	114.019	ng	99
87) Indeno(1,2,3-cd)pyrene	17.192	276	524665	58.629	ng	97
88) Benzo(b)fluoranthene	15.198	252	1315207m	181.982	ng	
89) Benzo(k)fluoranthene	15.221	252	396926m	52.619	ng	
90) Benzo(a)pyrene	15.586	252	977107	158.424	ng	98
91) Dibenzo(a,h)anthracene	17.198	278	125160	16.994	ng	94
92) Benzo(g,h,i)perylene	17.662	276	535347	72.323	ng	98

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

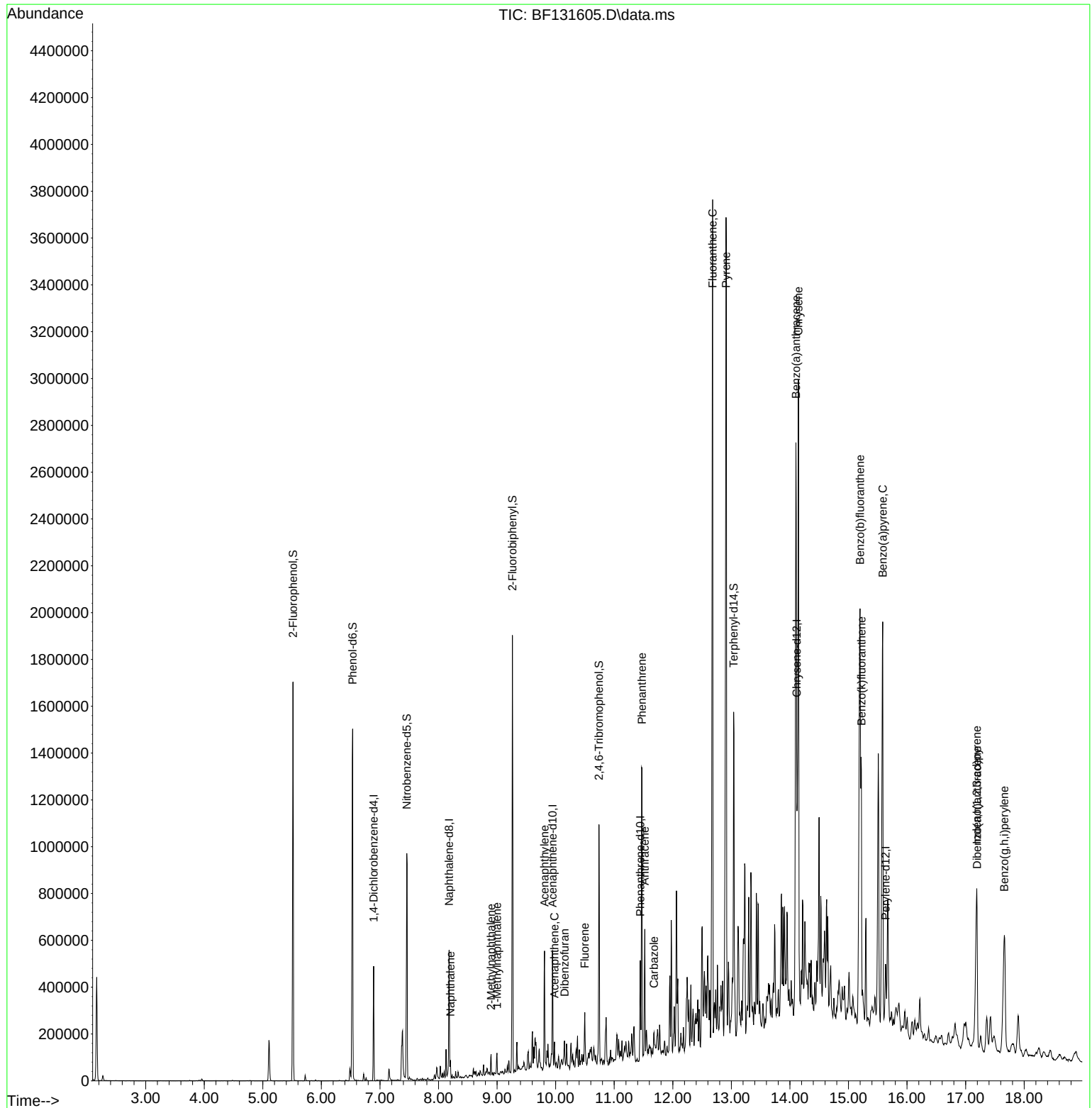
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121222\
Data File : BF131605.D
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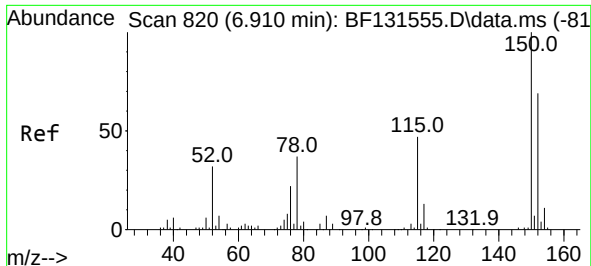
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03

Quant Time: Dec 13 04:18:38 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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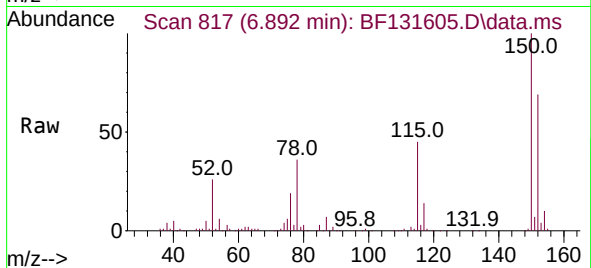
Reviewed By : Christian Giraldo 12/13/2022
Supervised By : Jagrut Upadhyay 12/13/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

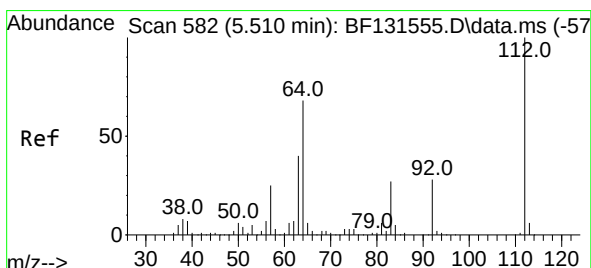
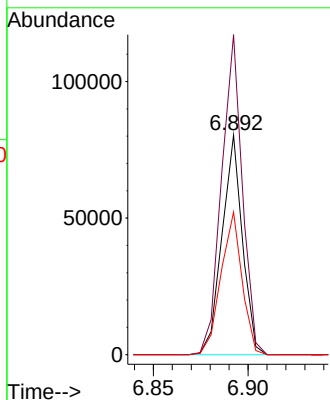
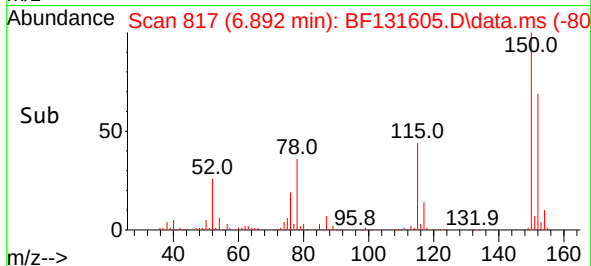
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03



Tgt Ion:152 Resp: 60182
Ion Ratio Lower Upper
152 100
150 145.7 116.7 175.1
115 64.9 54.6 82.0

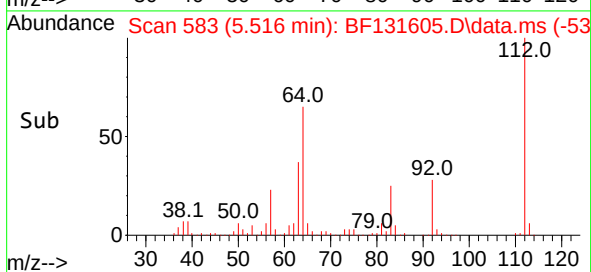
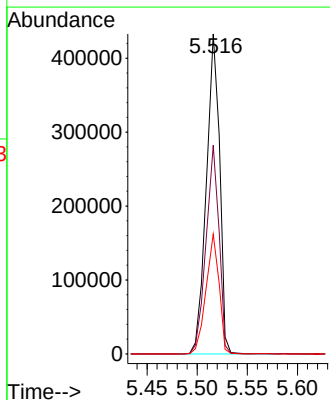
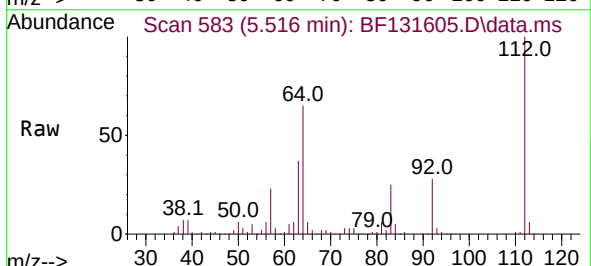
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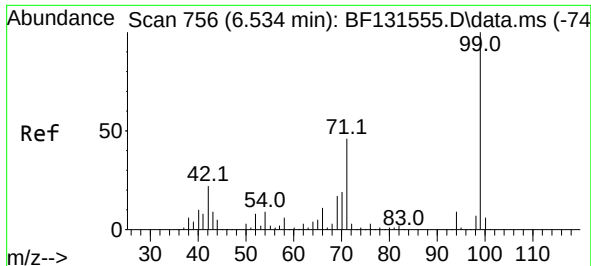
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#5
2-Fluorophenol
Concen: 110.162 ng
RT: 5.516 min Scan# 583
Delta R.T. 0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

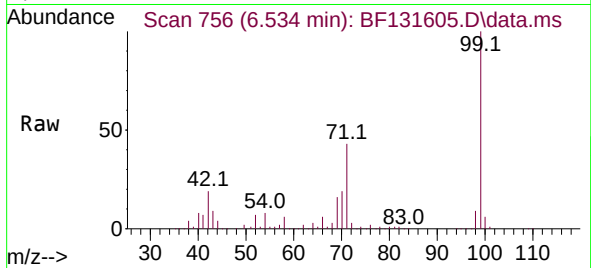
Tgt Ion:112 Resp: 397399
Ion Ratio Lower Upper
112 100
64 65.2 54.5 81.7
63 37.4 31.9 47.9





#7
Phenol-d6
Concen: 105.028 ng
RT: 6.534 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

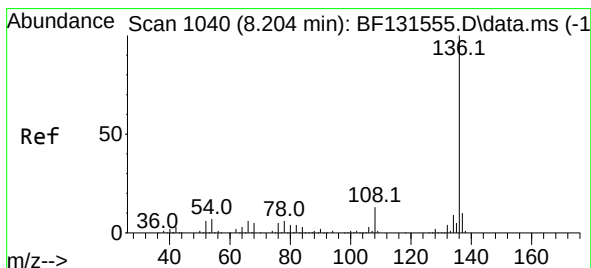
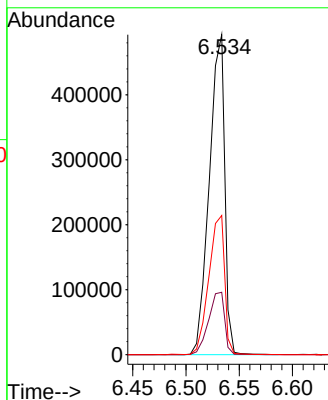
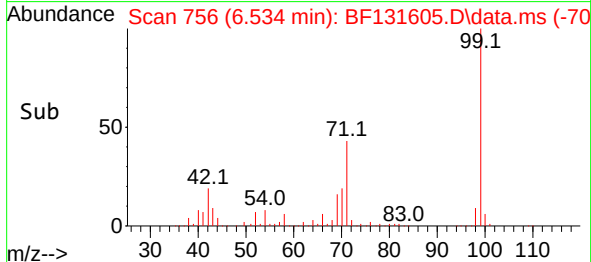
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Tgt Ion: 99 Resp: 496497
Ion Ratio Lower Upper
99 100
42 19.5 17.9 26.9
71 43.5 37.2 55.8

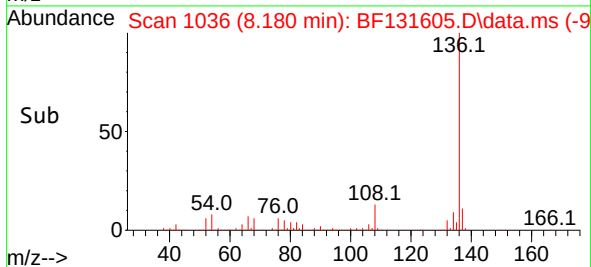
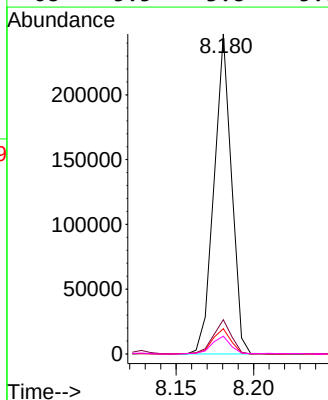
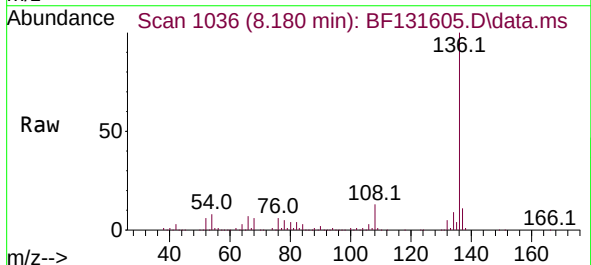
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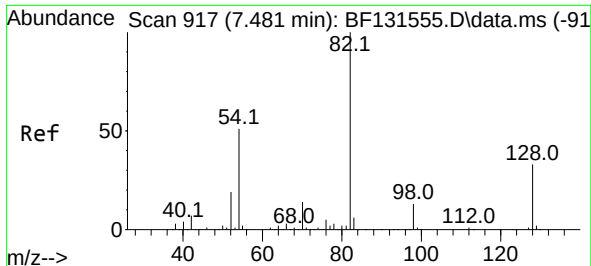
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.180 min Scan# 1036
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

Tgt Ion:136 Resp: 194181
Ion Ratio Lower Upper
136 100
137 10.7 8.1 12.1
54 7.9 6.0 9.0
68 5.5 3.8 5.8





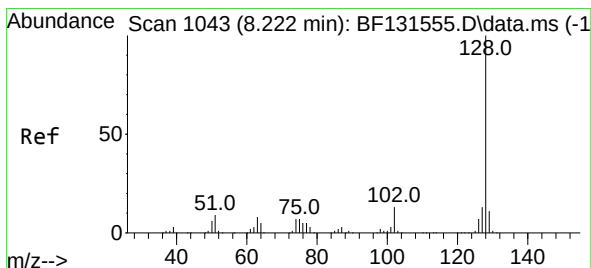
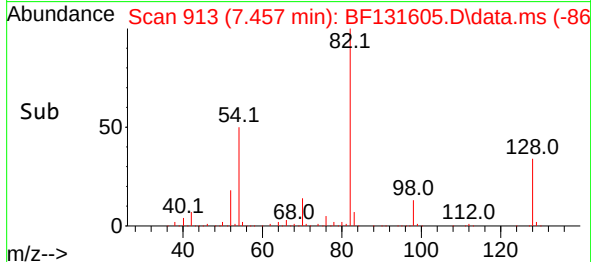
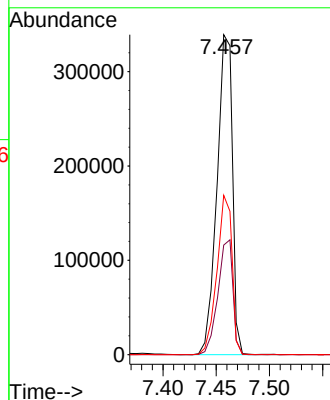
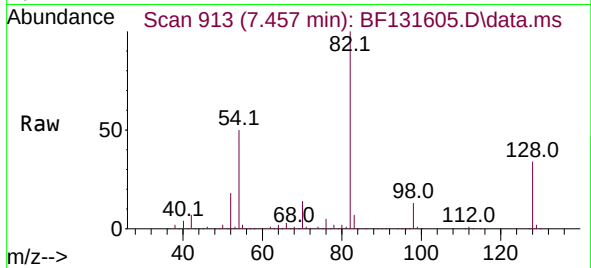
#23
Nitrobenzene-d5
Concen: 66.796 ng
RT: 7.457 min Scan# 917
Delta R.T. -0.012 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03

Tgt Ion: 82 Resp: 343076
Ion Ratio Lower Upper
82 100
128 34.2 26.1 39.1
54 49.8 40.6 60.8

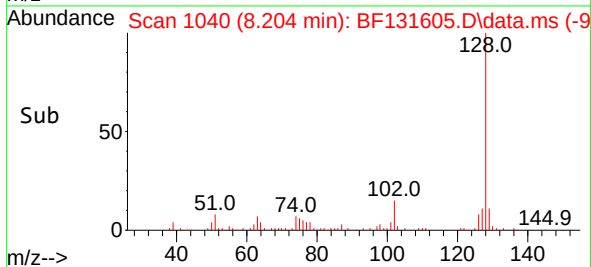
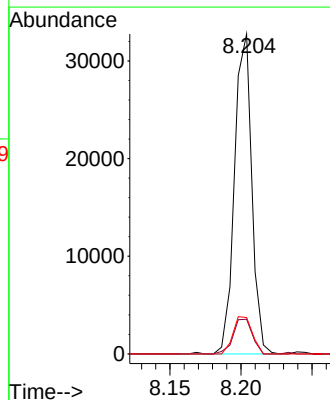
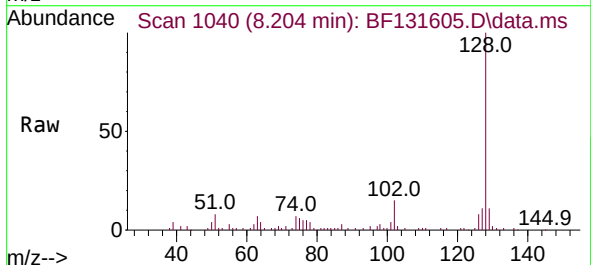
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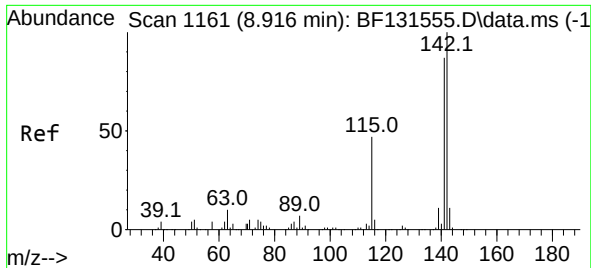
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#31
Naphthalene
Concen: 2.534 ng
RT: 8.204 min Scan# 1040
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

Tgt Ion:128 Resp: 27718
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 11.4 10.6 15.8





#37

2-Methylnaphthalene

Concen: 2.815 ng

RT: 8.898 min Scan# 1158

Delta R.T. -0.006 min

Lab File: BF131605.D

Acq: 12 Dec 2022 21:50

Instrument :

BNA_F

ClientSampleId :

SU-518-COMP-03

Tgt Ion:142 Resp: 2105

Ion Ratio Lower Upper

142 100

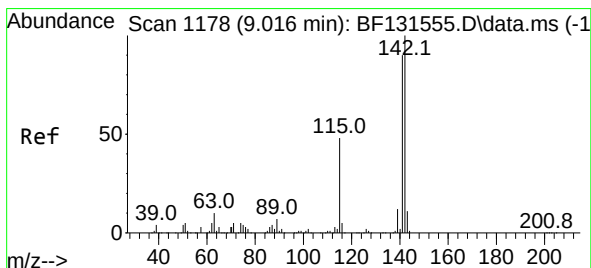
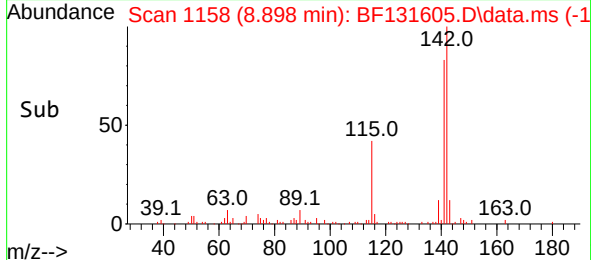
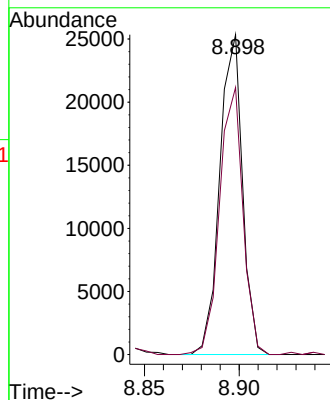
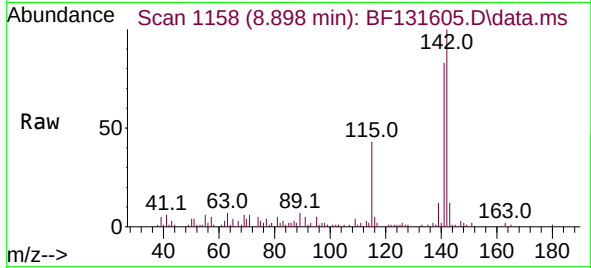
141 83.5 69.7 104.5

Manual Integrations

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Reviewed By :Christian Giraldo 12/13/2022

Supervised By :Jagrut Upadhyay 12/13/2022



#38

1-Methylnaphthalene

Concen: 3.012 ng

RT: 8.998 min Scan# 1175

Delta R.T. -0.006 min

Lab File: BF131605.D

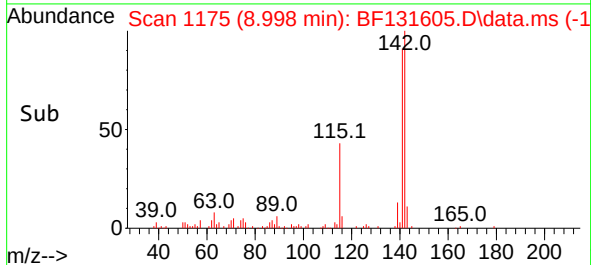
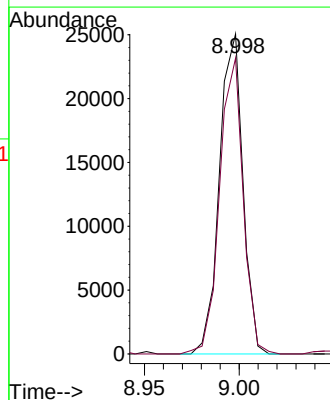
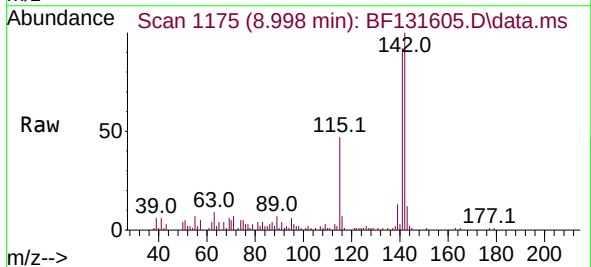
Acq: 12 Dec 2022 21:50

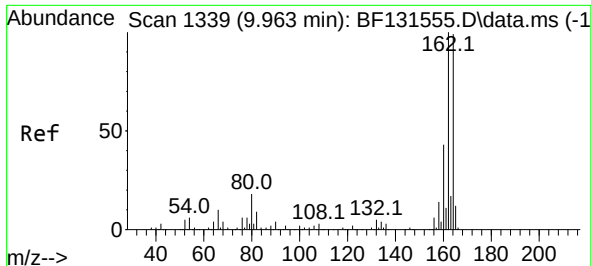
Tgt Ion:142 Resp: 21623

Ion Ratio Lower Upper

142 100

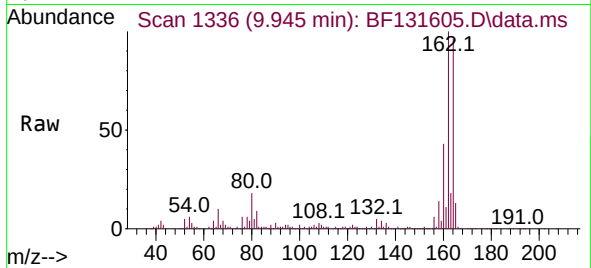
141 92.4 71.9 107.9





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

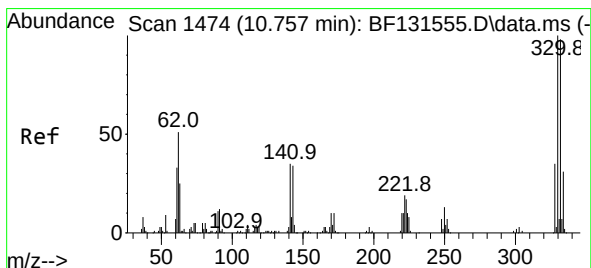
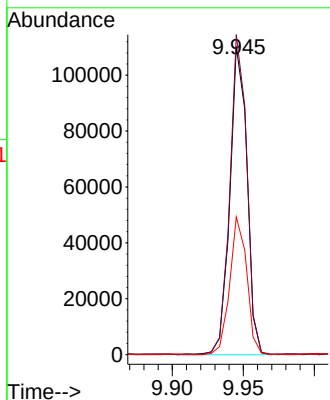
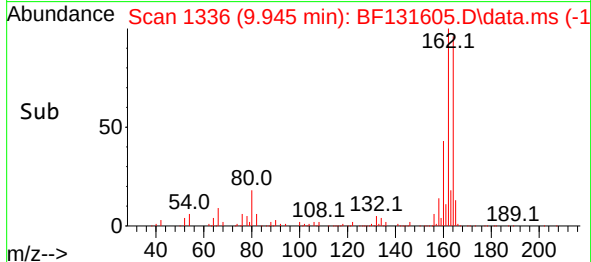
Instrument :
BNA_F
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SU-518-COMP-03



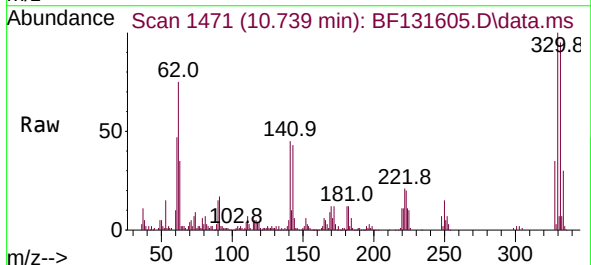
Tgt Ion:164 Resp: 92200
Ion Ratio Lower Upper
164 100
162 103.8 81.0 121.6
160 44.7 35.0 52.6

Manual Integrations
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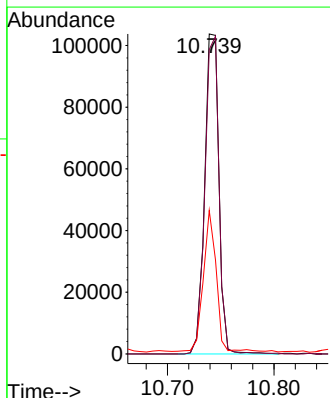
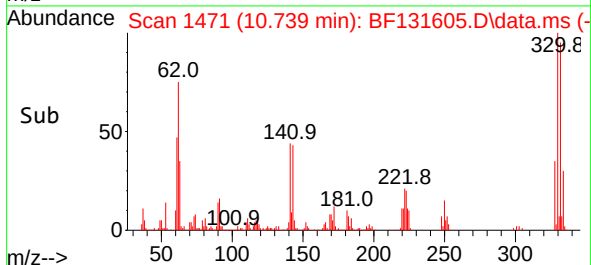
Reviewed By :Christian Giraldo 12/13/2022
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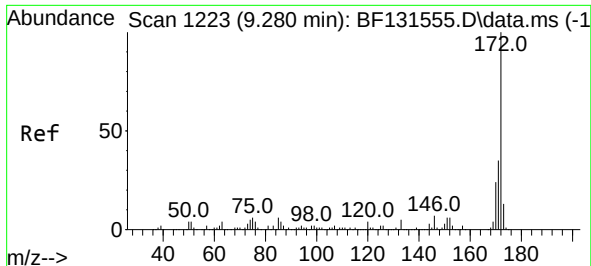


#42
2,4,6-Tribromophenol
Concen: 94.168 ng
RT: 10.739 min Scan# 1471
Delta R.T. -0.012 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50



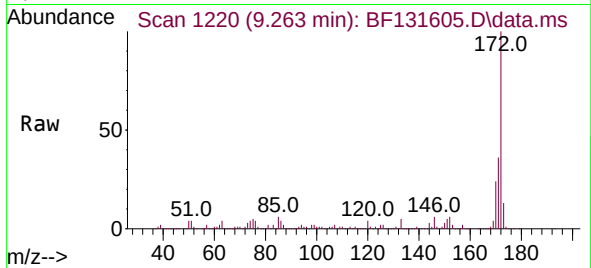
Tgt Ion:330 Resp: 96463
Ion Ratio Lower Upper
330 100
332 97.8 78.3 117.5
141 38.7 32.6 49.0





#45
2-Fluorobiphenyl
Concen: 68.416 ng
RT: 9.263 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

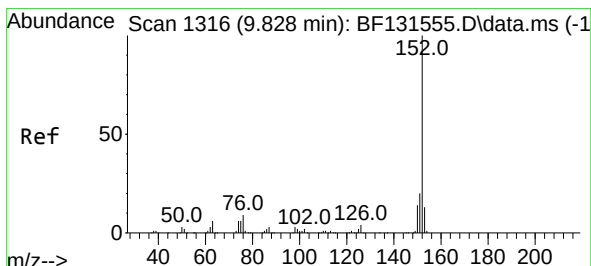
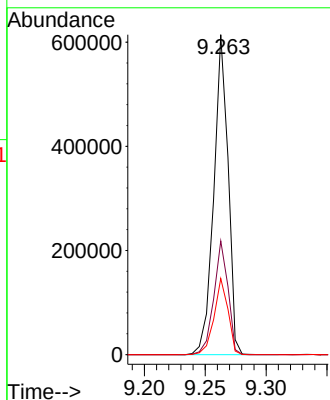
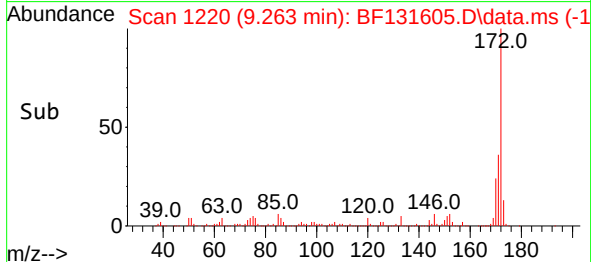
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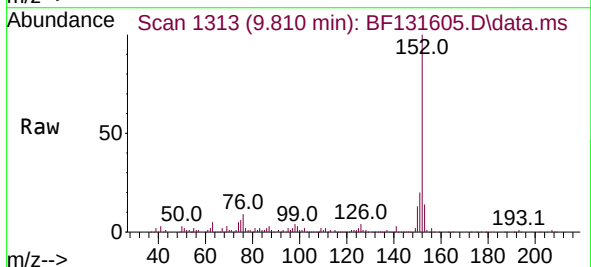
Tgt Ion:172 Resp: 500283
Ion Ratio Lower Upper
172 100
171 35.5 28.3 42.5
170 23.8 19.3 28.9

Manual Integrations
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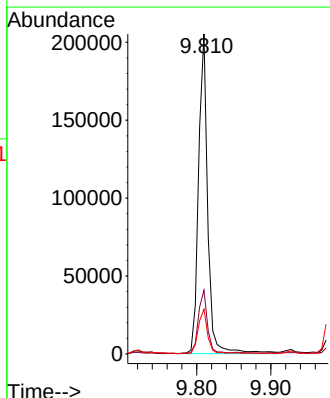
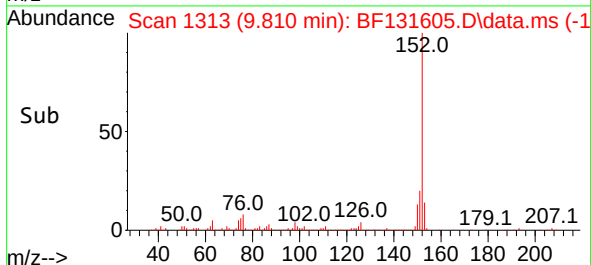
Reviewed By :Christian Giraldo 12/13/2022
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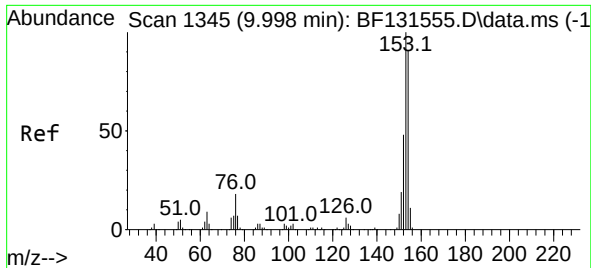


#49
Acenaphthylene
Concen: 20.404 ng
RT: 9.810 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50



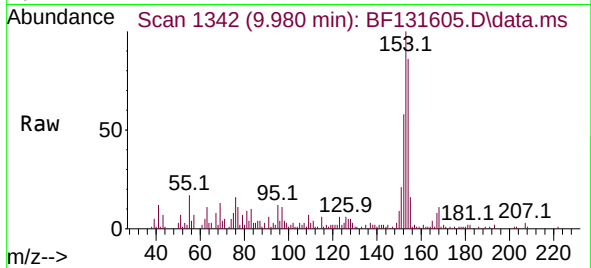
Tgt Ion:152 Resp: 177936
Ion Ratio Lower Upper
152 100
151 19.9 15.6 23.4
153 14.0 10.4 15.6





#52
Acenaphthene
Concen: 2.885 ng
RT: 9.980 min Scan# 1345
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

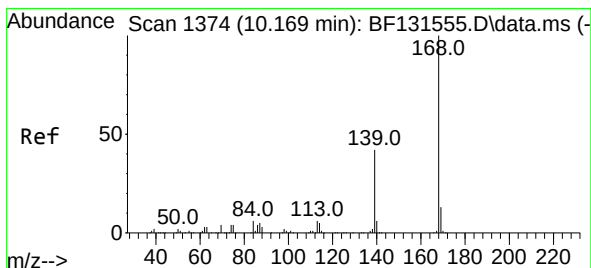
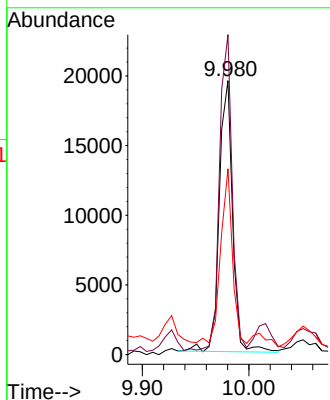
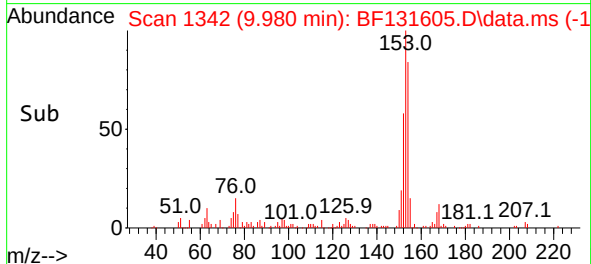
Instrument :
BNA_F
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Tgt Ion:154 Resp: 1685
Ion Ratio Lower Upper
154 100
153 116.8 87.9 131.9
152 67.8 42.4 63.6

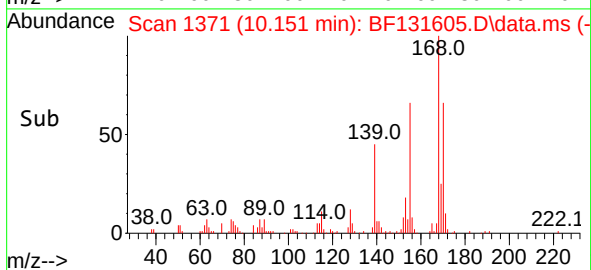
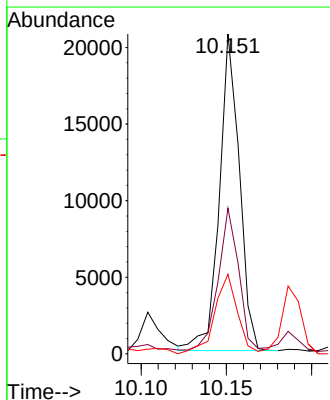
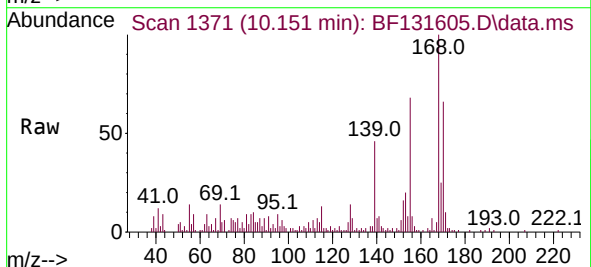
Manual Integrations
APPROVED

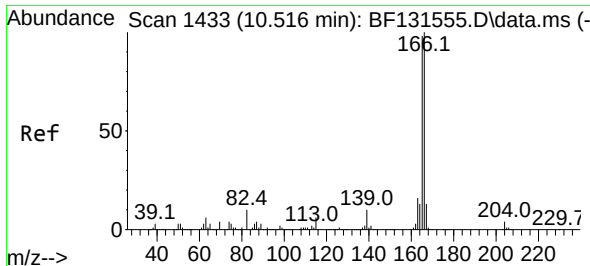
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#55
Dibenzofuran
Concen: 2.049 ng
RT: 10.151 min Scan# 1371
Delta R.T. -0.012 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

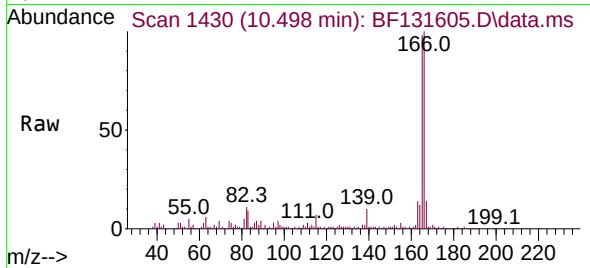
Tgt Ion:168 Resp: 16917
Ion Ratio Lower Upper
168 100
139 45.5 33.9 50.9
169 24.9 10.7 16.1





#58
Fluorene
Concen: 8.162 ng
RT: 10.498 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

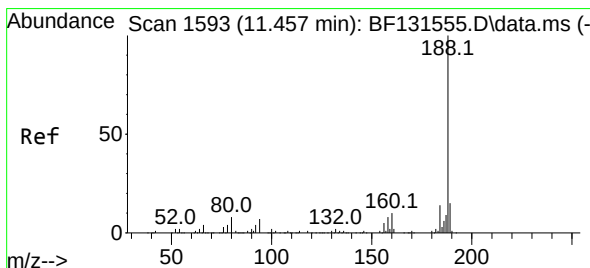
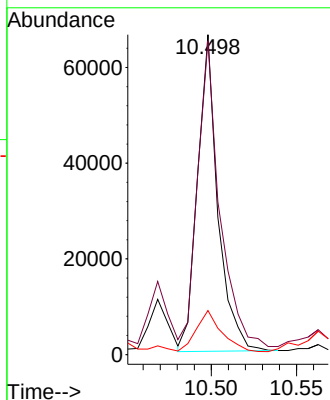
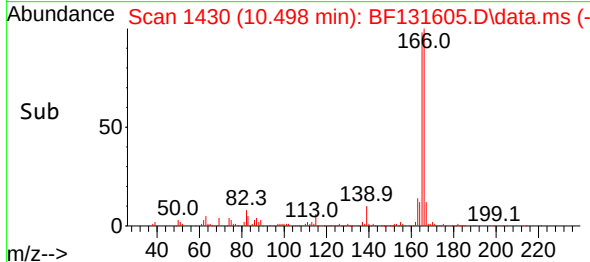
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03



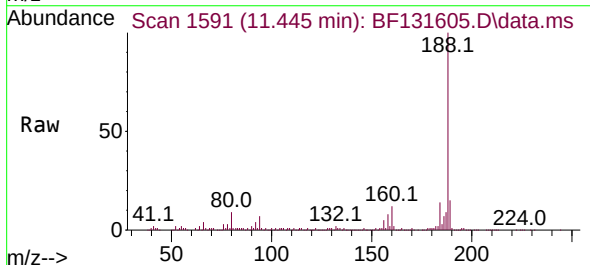
Tgt Ion:166 Resp: 54776
Ion Ratio Lower Upper
166 100
165 98.0 78.4 117.6
167 13.8 10.7 16.1

Manual Integrations
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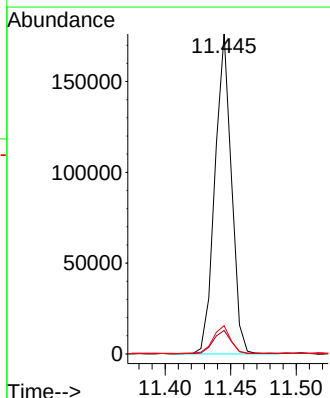
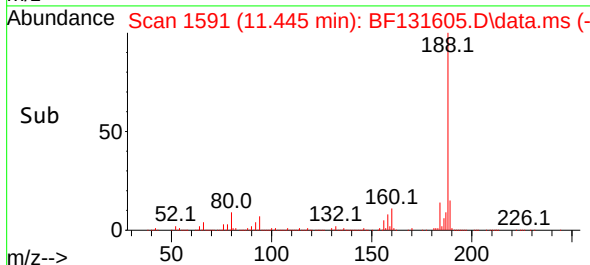
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022

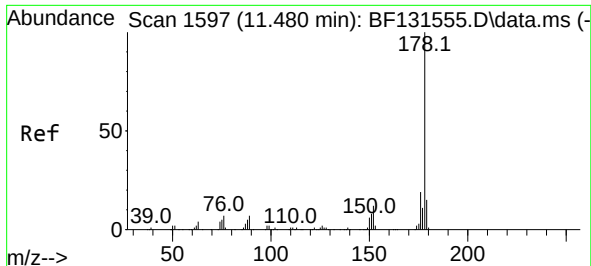


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50



Tgt Ion:188 Resp: 154797
Ion Ratio Lower Upper
188 100
94 7.3 5.5 8.3
80 8.8 6.6 10.0





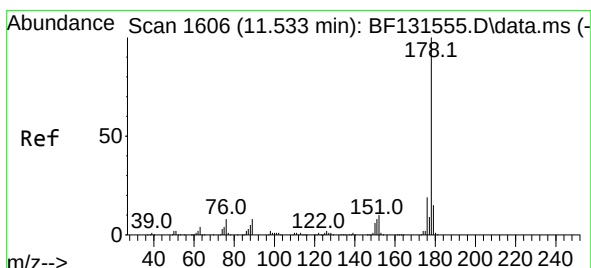
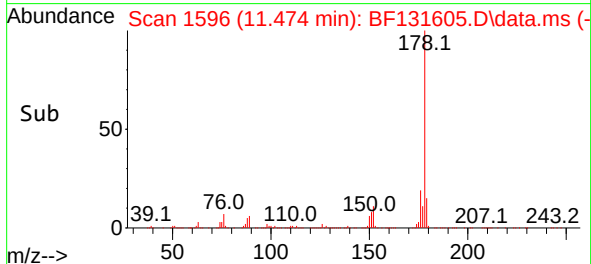
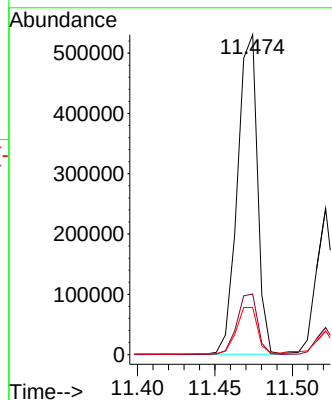
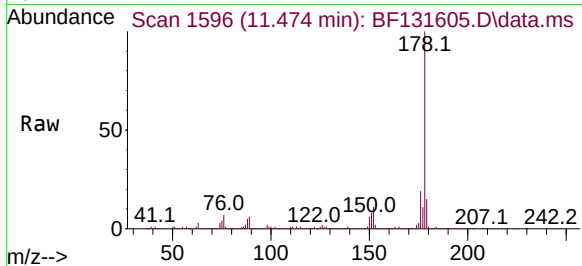
#71
Phenanthrene
Concen: 55.535 ng
RT: 11.474 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03

Tgt Ion:178 Resp: 47916
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 14.7 12.2 18.4

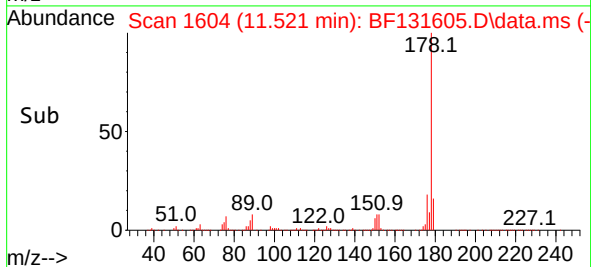
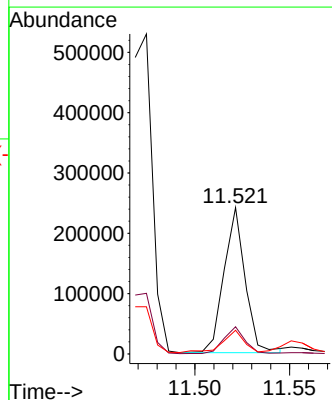
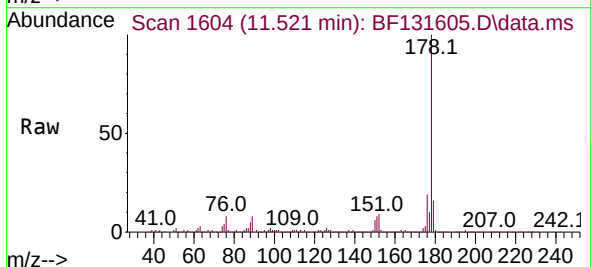
Manual Integrations
APPROVED

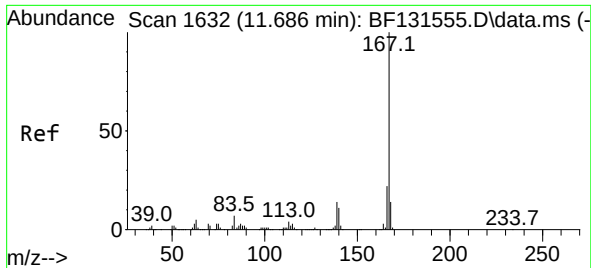
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#72
Anthracene
Concen: 22.400 ng
RT: 11.521 min Scan# 1604
Delta R.T. -0.006 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

Tgt Ion:178 Resp: 188038
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 16.2 12.3 18.5





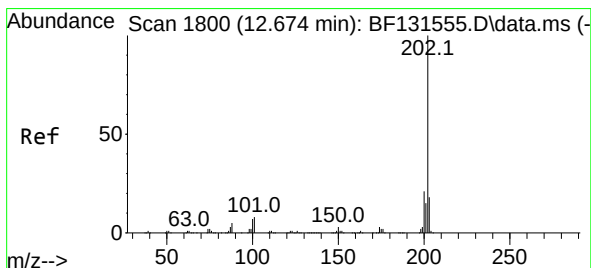
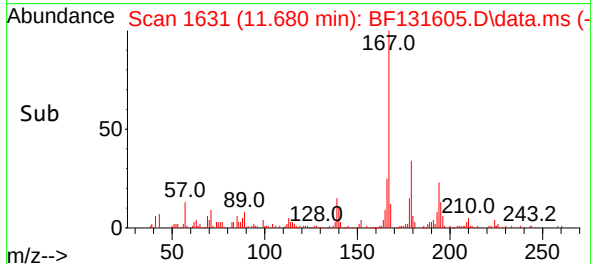
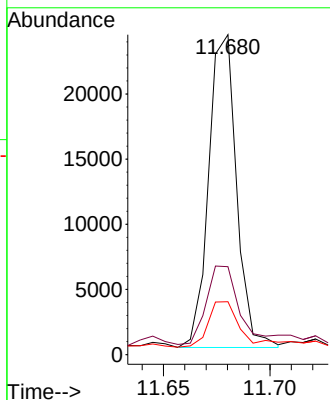
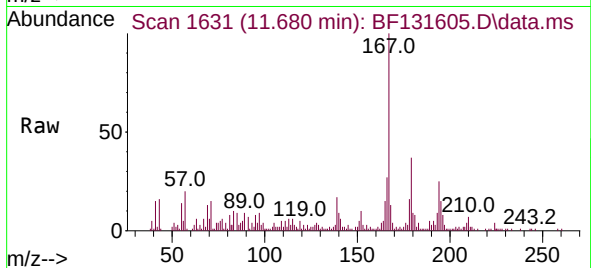
#73
 Carbazole
 Concen: 3.193 ng
 RT: 11.680 min Scan# 1632
 Delta R.T. -0.006 min
 Lab File: BF131605.D
 Acq: 12 Dec 2022 21:50

Instrument :
 BNA_F
 ClientSampleId :
 SU-518-COMP-03

Tgt Ion:167 Resp: 21879
 Ion Ratio Lower Upper
 167 100
 166 27.5 17.4 26.0
 139 16.5 11.0 16.4

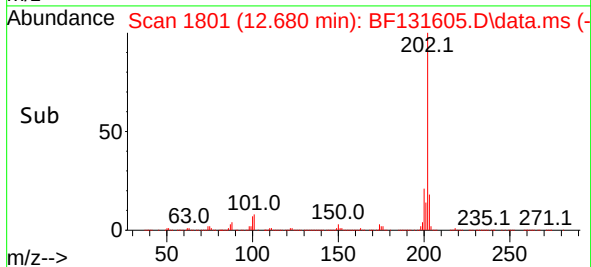
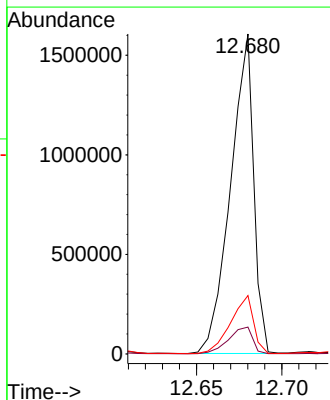
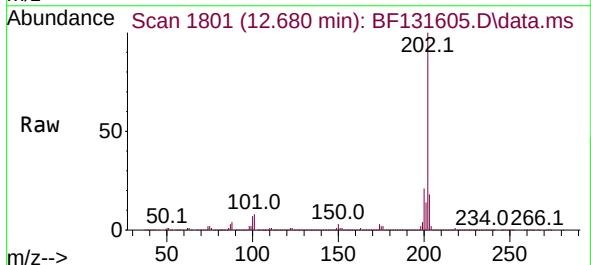
Manual Integrations
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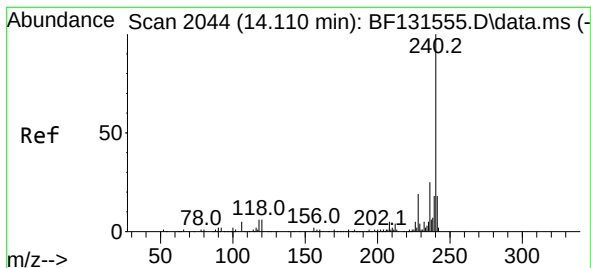
Reviewed By :Christian Giraldo 12/13/2022
 Supervised By :Jagrut Upadhyay 12/13/2022



#75
 Fluoranthene
 Concen: 170.612 ng
 RT: 12.680 min Scan# 1801
 Delta R.T. 0.012 min
 Lab File: BF131605.D
 Acq: 12 Dec 2022 21:50

Tgt Ion:202 Resp: 1515851
 Ion Ratio Lower Upper
 202 100
 101 8.4 0.0 27.7
 203 18.2 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.115 min Scan# 2045

Delta R.T. 0.012 min

Lab File: BF131605.D

Acq: 12 Dec 2022 21:50

Instrument :

BNA_F

ClientSampleId :

SU-518-COMP-03

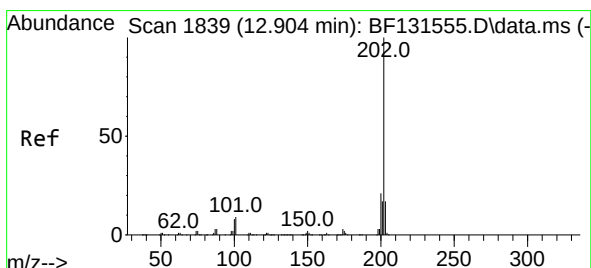
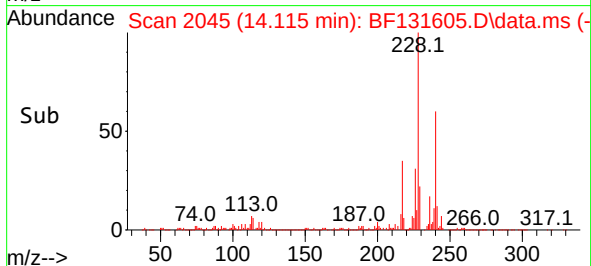
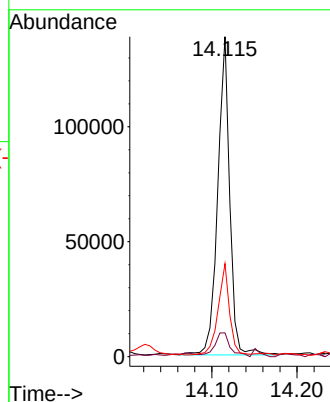
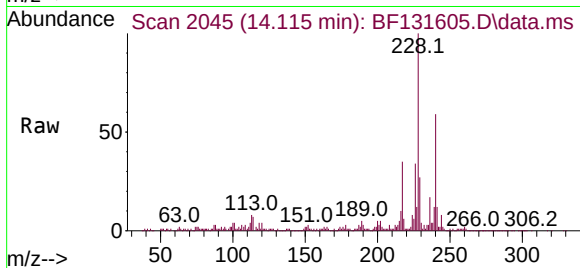
Tgt Ion:240 Resp: 135774

Ion	Ratio	Lower	Upper
240	100		
120	7.4	4.6	7.0
236	29.1	20.2	30.2

Manual Integrations

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Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#78

Pyrene

Concen: 129.991 ng

RT: 12.910 min Scan# 1840

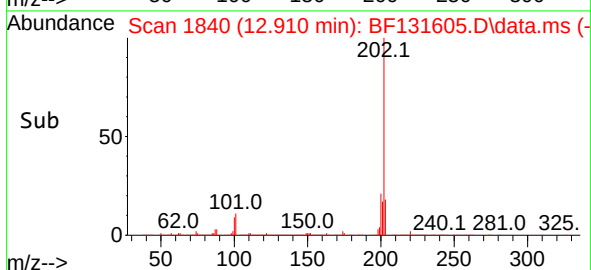
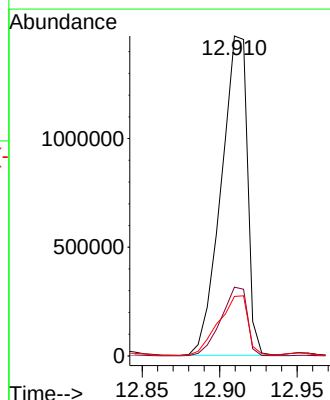
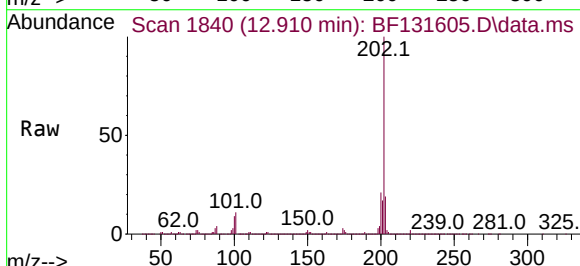
Delta R.T. 0.012 min

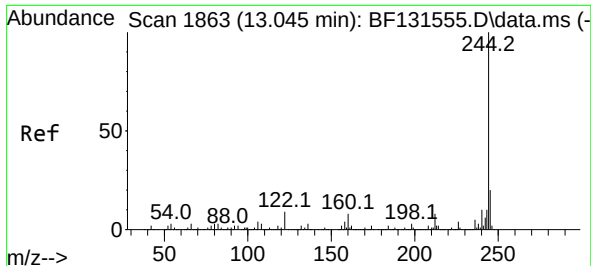
Lab File: BF131605.D

Acq: 12 Dec 2022 21:50

Tgt Ion:202 Resp: 1740325

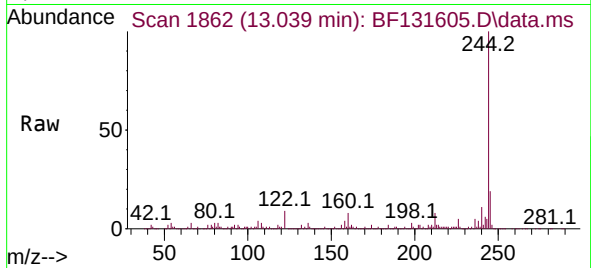
Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.7	25.1
203	18.6	13.8	20.6





#79
 Terphenyl-d14
 Concen: 47.728 ng
 RT: 13.039 min Scan# 1862
 Delta R.T. -0.006 min
 Lab File: BF131605.D
 Acq: 12 Dec 2022 21:50

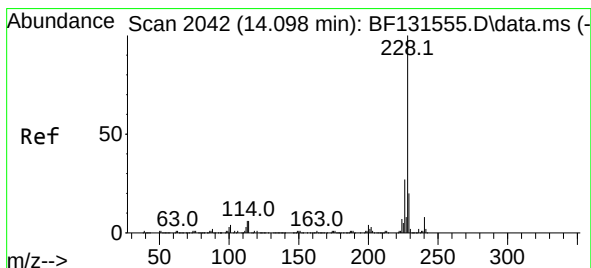
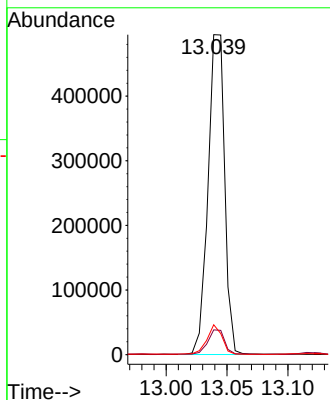
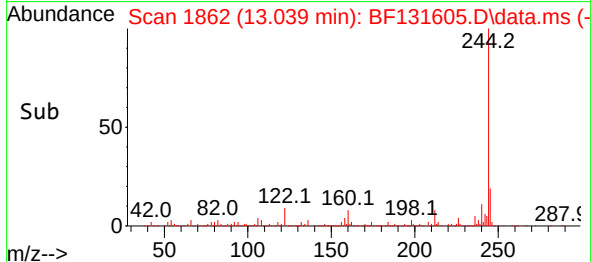
Instrument :
 BNA_F
 ClientSampleId :
 SU-518-COMP-03



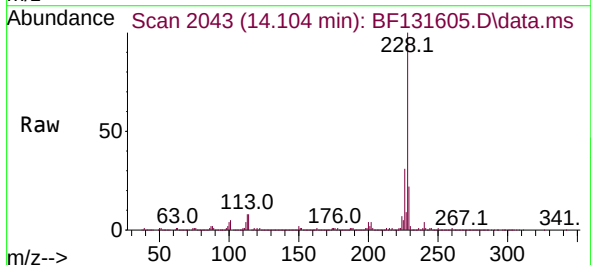
Tgt Ion:244 Resp: 472521
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 9.3 7.1 10.7

Manual Integrations
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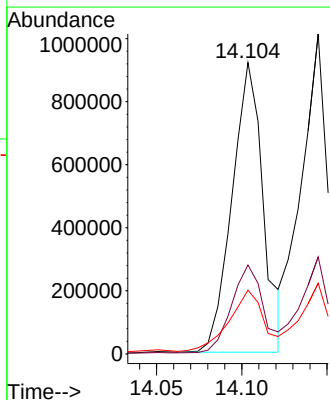
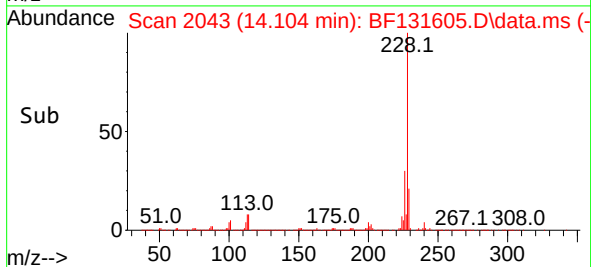
Reviewed By :Christian Giraldo 12/13/2022
 Supervised By :Jagrut Upadhyay 12/13/2022

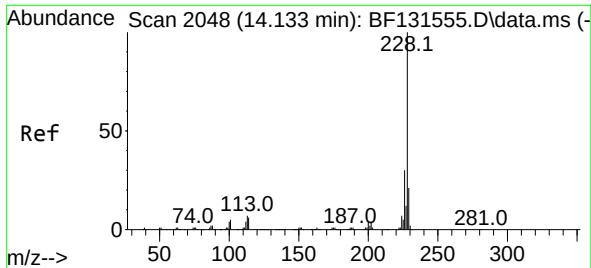


#81
 Benzo(a)anthracene
 Concen: 119.110 ng
 RT: 14.104 min Scan# 2043
 Delta R.T. 0.012 min
 Lab File: BF131605.D
 Acq: 12 Dec 2022 21:50



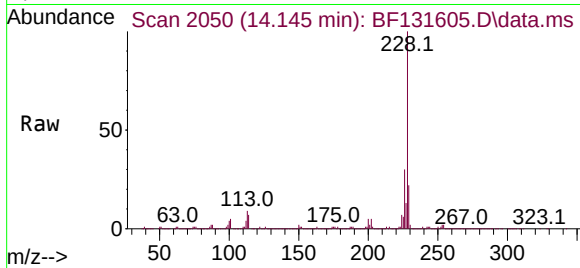
Tgt Ion:228 Resp: 1167877
 Ion Ratio Lower Upper
 228 100
 226 30.5 21.5 32.3
 229 21.9 15.8 23.6





#83
Chrysene
Concen: 114.019 ng
RT: 14.145 min Scan# 2048
Delta R.T. 0.012 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

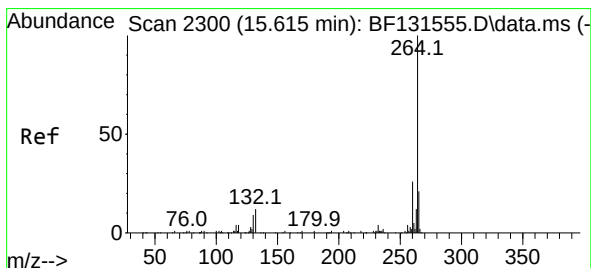
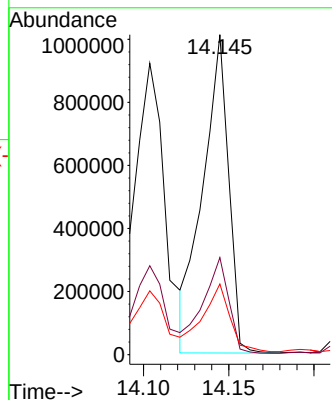
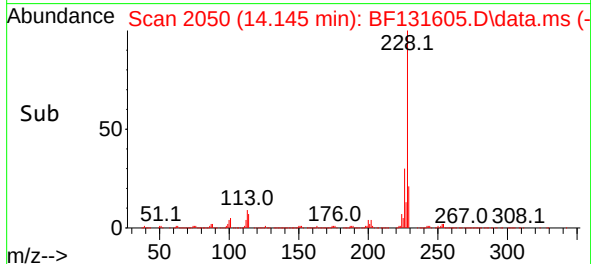
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03



Tgt Ion:228 Resp: 1062848
Ion Ratio Lower Upper
228 100
226 30.3 23.9 35.9
229 22.1 16.7 25.1

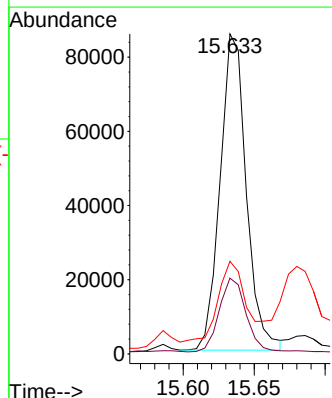
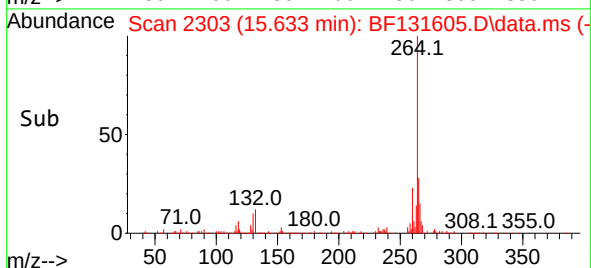
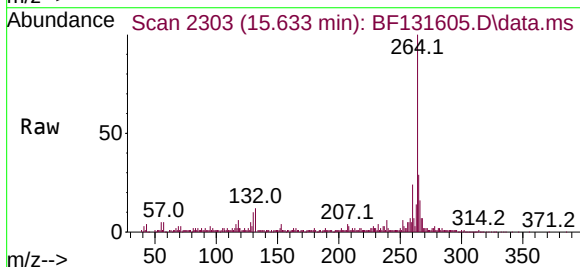
Manual Integrations
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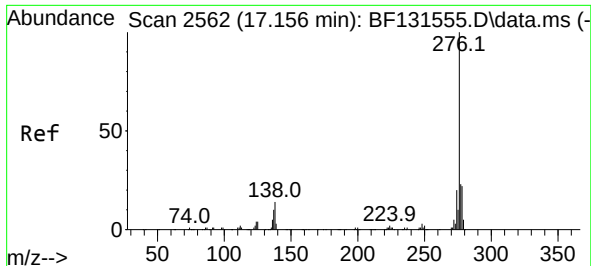
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2303
Delta R.T. 0.018 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

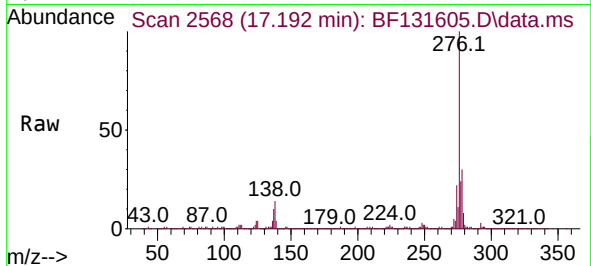
Tgt Ion:264 Resp: 109654
Ion Ratio Lower Upper
264 100
260 23.7 20.6 30.8
265 28.9 16.8 25.2#





#87
Indeno(1,2,3-cd)pyrene
Concen: 58.629 ng
RT: 17.192 min Scan# 21
Delta R.T. 0.035 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

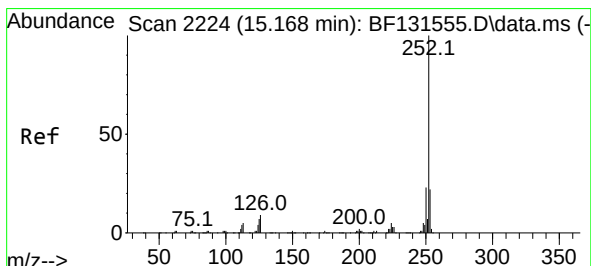
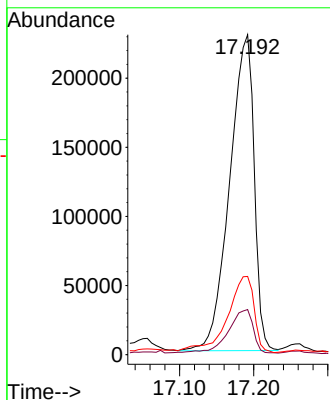
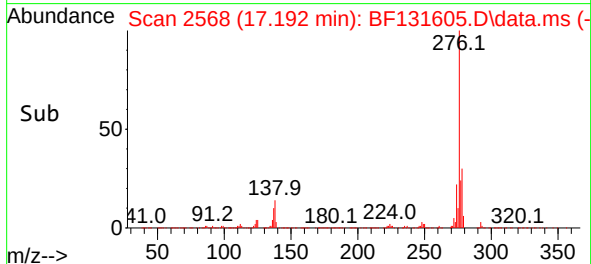
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03



Tgt Ion:276 Resp: 52466
Ion Ratio Lower Upper
276 100
138 14.1 12.7 19.1
277 26.5 20.0 30.0

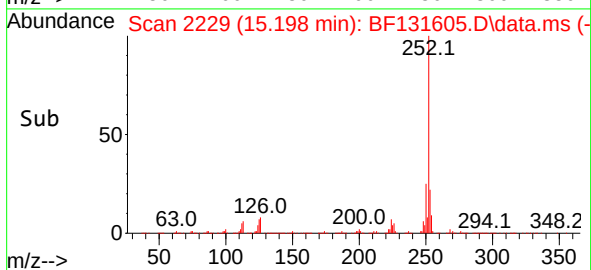
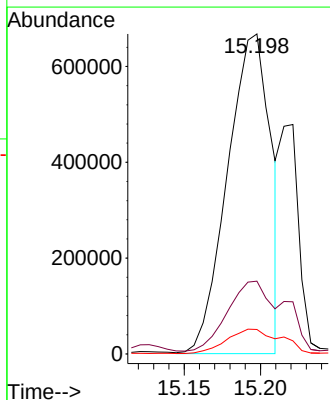
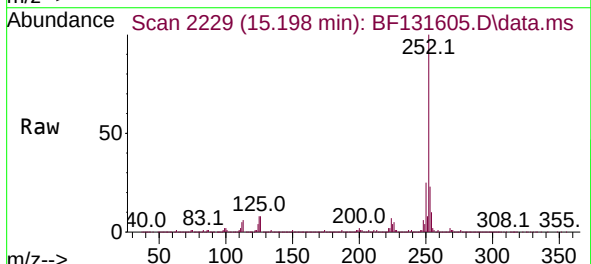
Manual Integrations
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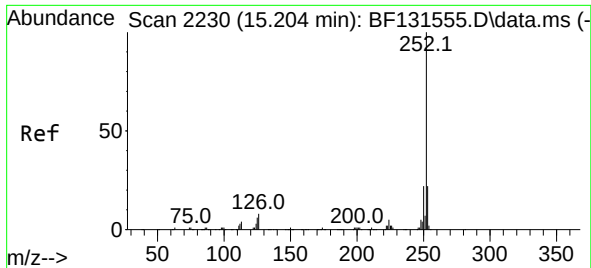
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#88
Benzo(b)fluoranthene
Concen: 181.982 ng m
RT: 15.198 min Scan# 2229
Delta R.T. 0.029 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

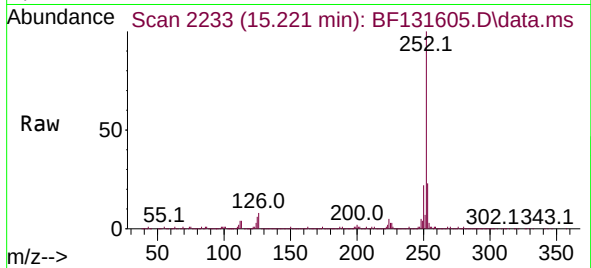
Tgt Ion:252 Resp: 1315207
Ion Ratio Lower Upper
252 100
253 22.7 17.7 26.5
125 7.6 5.6 8.4





#89
Benzo(k)fluoranthene
Concen: 52.619 ng m
RT: 15.221 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50

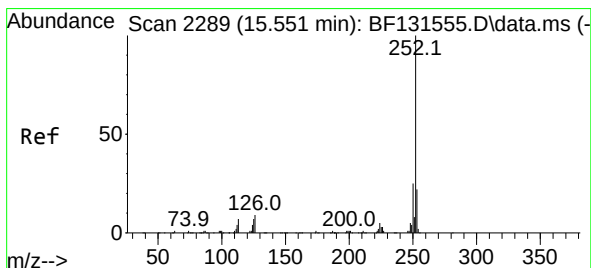
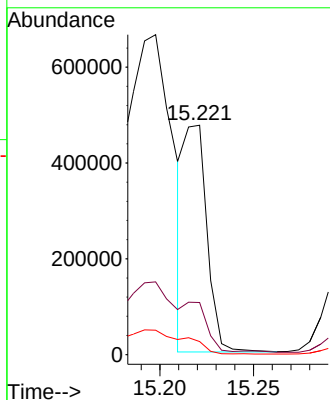
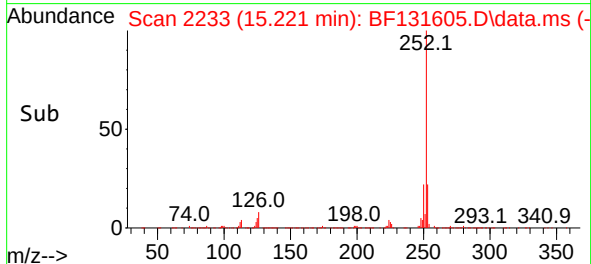
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-03



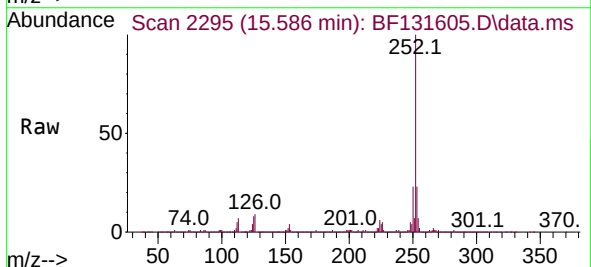
Tgt Ion:252 Resp: 396926
Ion Ratio Lower Upper
252 100
253 22.7 17.7 26.5
125 5.7 4.9 7.3

Manual Integrations
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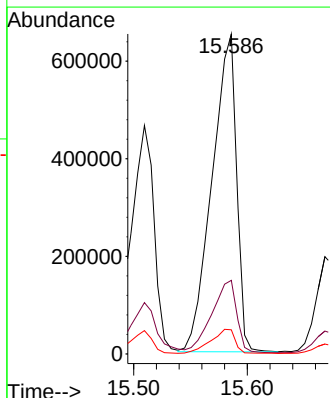
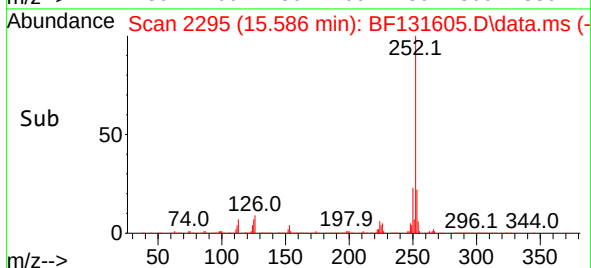
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022

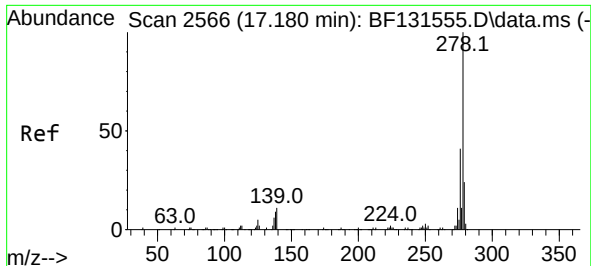


#90
Benzo(a)pyrene
Concen: 158.424 ng
RT: 15.586 min Scan# 2295
Delta R.T. 0.035 min
Lab File: BF131605.D
Acq: 12 Dec 2022 21:50



Tgt Ion:252 Resp: 977107
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 7.5 5.6 8.4





#91

Dibenzo(a,h)anthracene

Concen: 16.994 ng

RT: 17.198 min Scan# 2566

Delta R.T. 0.023 min

Lab File: BF131605.D

Acq: 12 Dec 2022 21:50

Instrument :

BNA_F

ClientSampleId :

SU-518-COMP-03

Tgt Ion:278 Resp: 125160

Ion Ratio Lower Upper

278 100

139 10.1 8.9 13.3

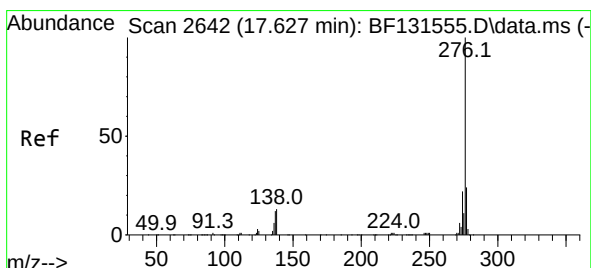
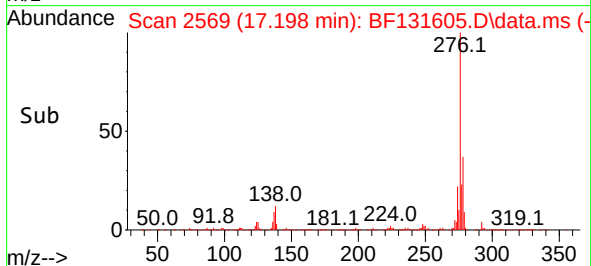
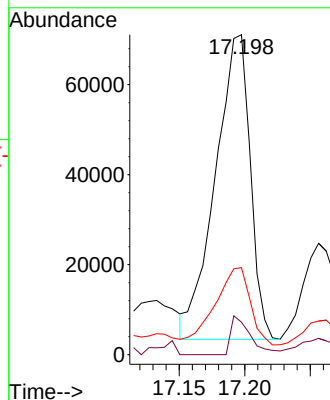
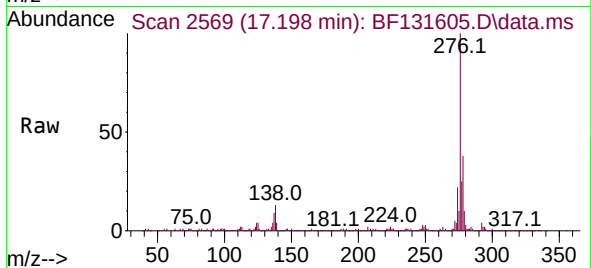
279 27.2 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/13/2022

Supervised By :Jagrut Upadhyay 12/13/2022



#92

Benzo(g,h,i)perylene

Concen: 72.323 ng

RT: 17.662 min Scan# 2648

Delta R.T. 0.035 min

Lab File: BF131605.D

Acq: 12 Dec 2022 21:50

Tgt Ion:276 Resp: 535347

Ion Ratio Lower Upper

276 100

277 25.2 19.0 28.6

138 13.9 10.7 16.1

