

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121222\
 Data File : BF131607.D
 Acq On : 12 Dec 2022 22:53
 Operator : CG\JU
 Sample : N5964-07 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-518-COMP-04

Manual Integrations
 APPROVED

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

Quant Time: Dec 13 04:19:20 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	62363	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	205219	20.000	ng	0.00
39) Acenaphthene-d10	9.951	164	108635	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	204947	20.000	ng	0.00
76) Chrysene-d12	14.110	240	133709	20.000	ng	0.00
86) Perylene-d12	15.627	264	105965	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	183479	49.083	ng	0.00
7) Phenol-d6	6.528	99	227097	46.360	ng	0.00
23) Nitrobenzene-d5	7.457	82	154550	28.472	ng	-0.01
42) 2,4,6-Tribromophenol	10.745	330	54857	45.450	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	255459	29.650	ng	0.00
79) Terphenyl-d14	13.039	244	288100	29.549	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.204	128	121140	10.481	ng	100
37) 2-Methylnaphthalene	8.898	142	49806	6.301	ng	96
38) 1-Methylnaphthalene	8.998	142	41771	5.505	ng	100
49) Acenaphthylene	9.810	152	87735	8.538	ng	99
52) Acenaphthene	9.980	154	44067	6.402	ng	96
55) Dibenzofuran	10.157	168	80845	8.312	ng	95
58) Fluorene	10.498	166	127209	16.089	ng	98
71) Phenanthrene	11.480	178	824332	72.161	ng	100
72) Anthracene	11.522	178	205682	18.506	ng	99
73) Carbazole	11.680	167	122781	13.534	ng	99
75) Fluoranthene	12.674	202	920750	78.274	ng	98
78) Pyrene	12.904	202	778764	59.067	ng	99
81) Benzo(a)anthracene	14.098	228	336261	34.824	ng	94
83) Chrysene	14.133	228	247080	26.915	ng	97
87) Indeno(1,2,3-cd)pyrene	17.162	276	87433	10.110	ng	98
88) Benzo(b)fluoranthene	15.174	252	255848m	36.634	ng	
89) Benzo(k)fluoranthene	15.204	252	94724m	12.994	ng	
90) Benzo(a)pyrene	15.562	252	185744	31.164	ng	99
91) Dibenzo(a,h)anthracene	17.168	278	26375	3.706	ng #	87
92) Benzo(g,h,i)perylene	17.627	276	77270	10.802	ng #	94

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

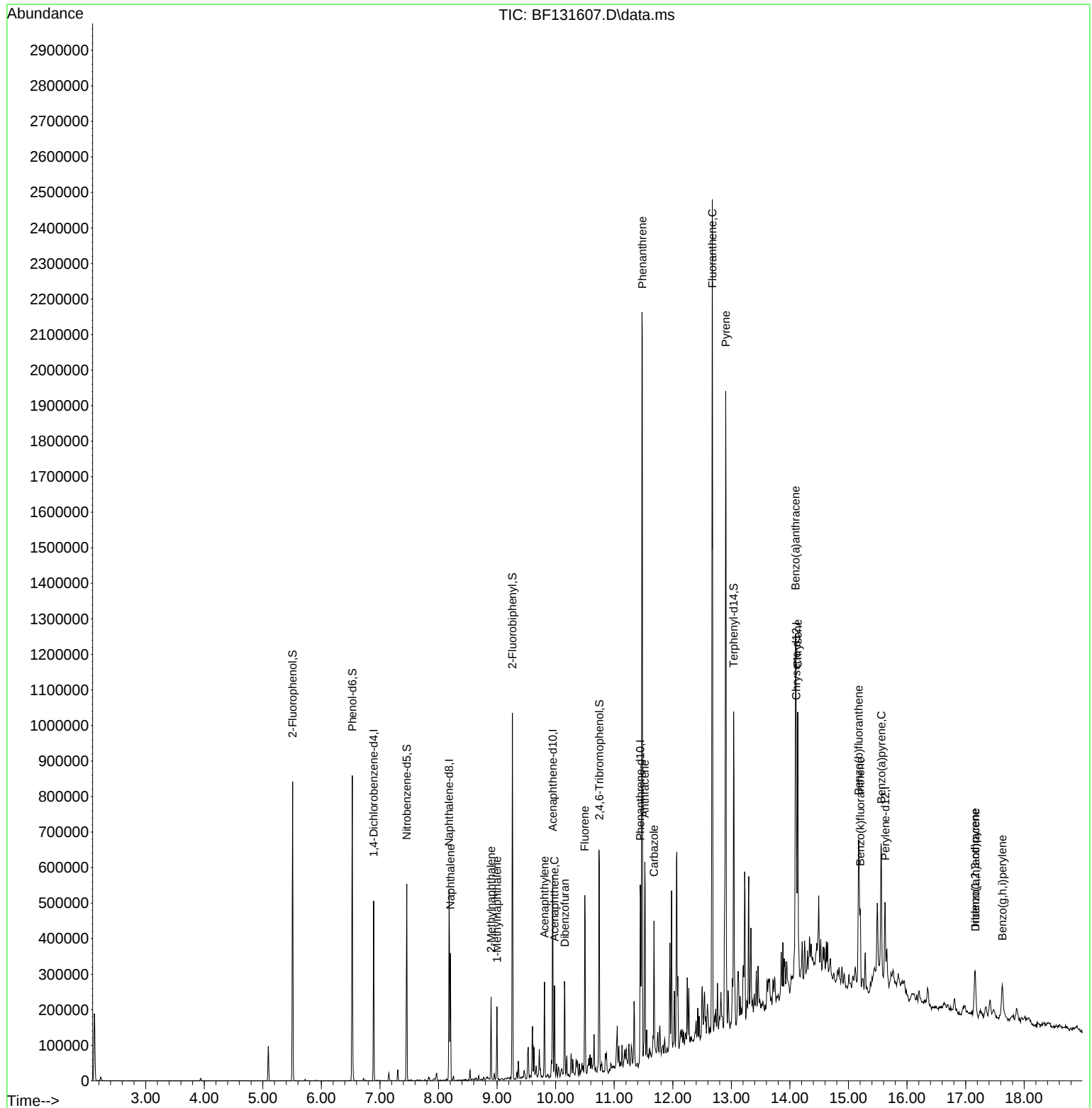
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121222\
Data File : BF131607.D
Acq On : 12 Dec 2022 22:53
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Sample : N5964-07 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

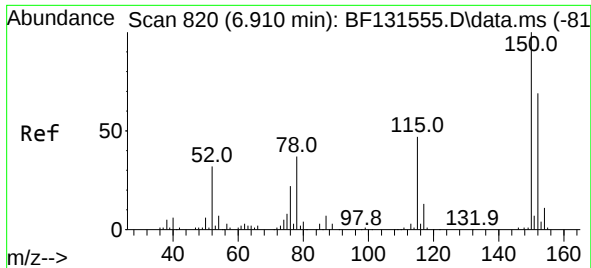
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04

Quant Time: Dec 13 04:19:20 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
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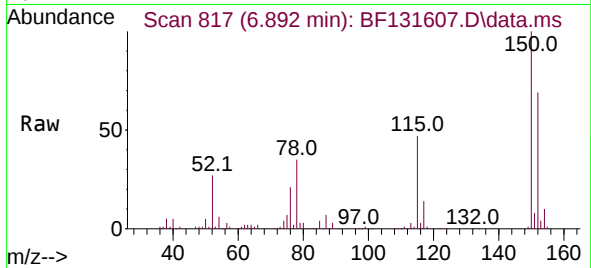
Reviewed By : Christian Giraldo 12/13/2022
Supervised By : Jagrut Upadhyay 12/13/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 817
Delta R.T. 0.000 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

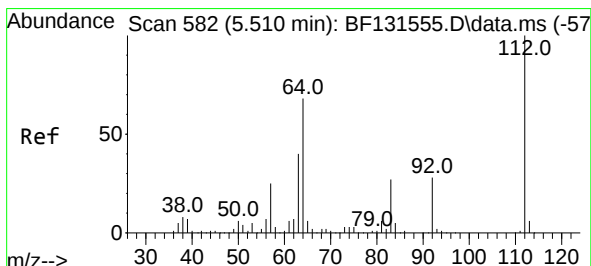
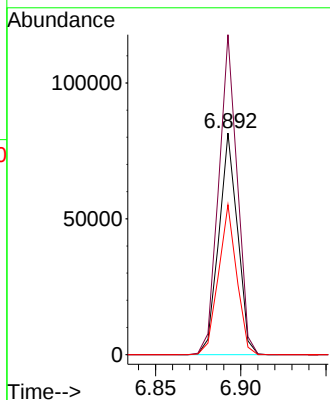
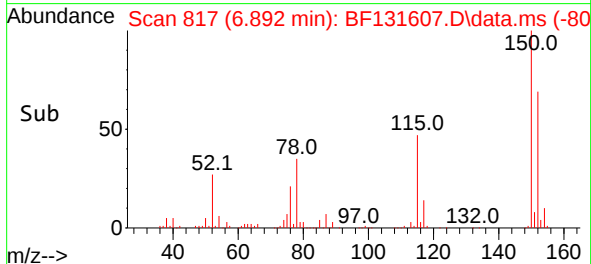
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



Tgt Ion:152 Resp: 62363
Ion Ratio Lower Upper
152 100
150 144.4 116.7 175.1
115 67.6 54.6 82.0

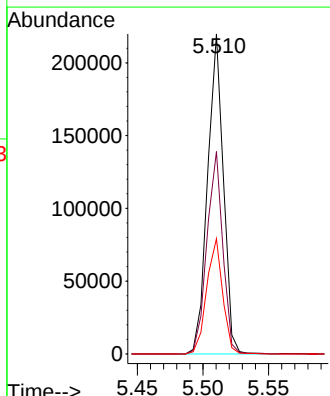
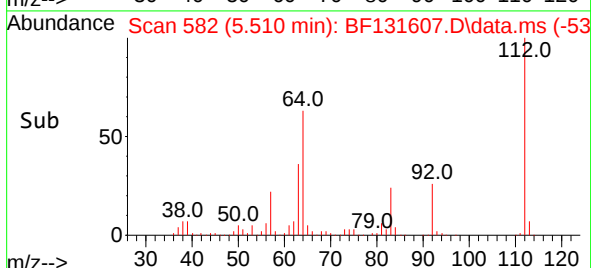
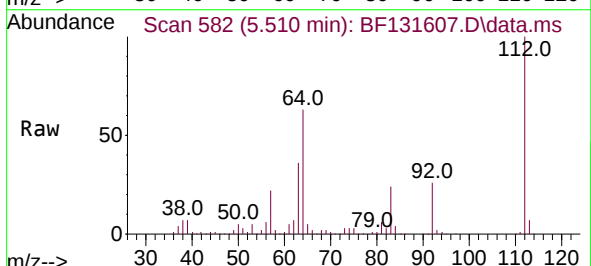
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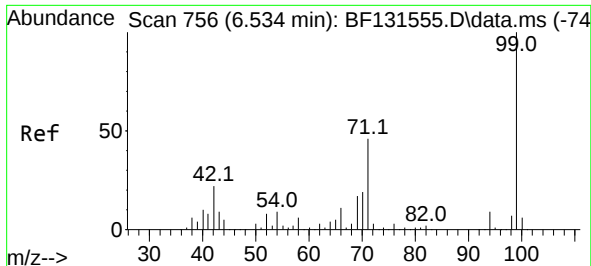
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#5
2-Fluorophenol
Concen: 49.083 ng
RT: 5.510 min Scan# 582
Delta R.T. 0.000 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

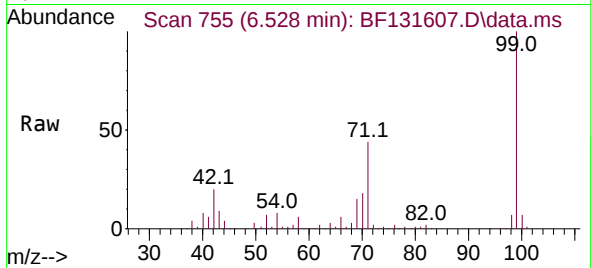
Tgt Ion:112 Resp: 183479
Ion Ratio Lower Upper
112 100
64 63.2 54.5 81.7
63 36.0 31.9 47.9





#7
Phenol-d6
Concen: 46.360 ng
RT: 6.528 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

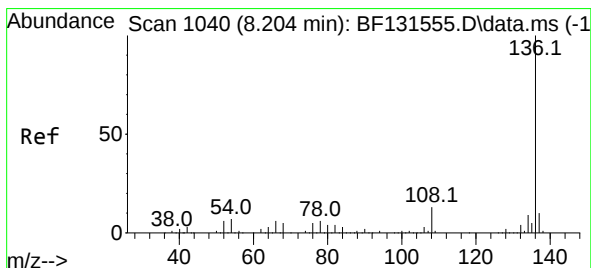
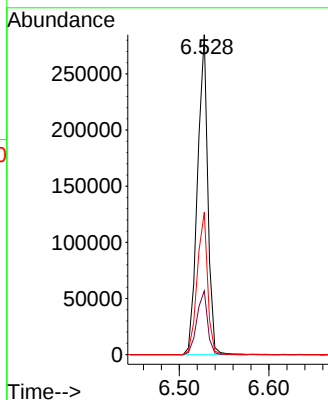
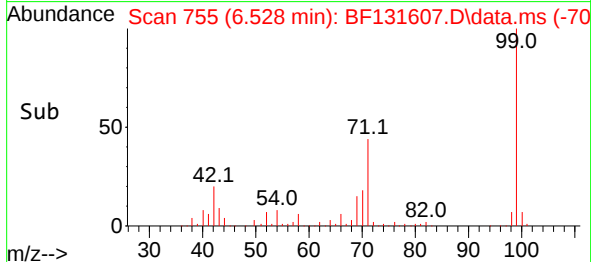
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



Tgt Ion: 99 Resp: 227097
Ion Ratio Lower Upper
99 100
42 19.9 17.9 26.9
71 44.5 37.2 55.8

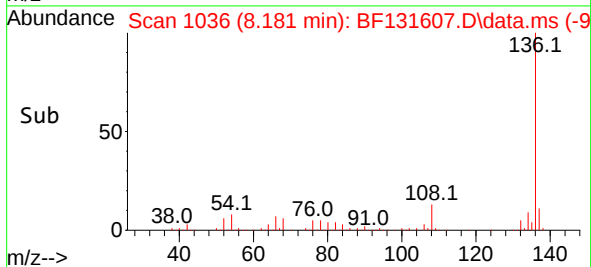
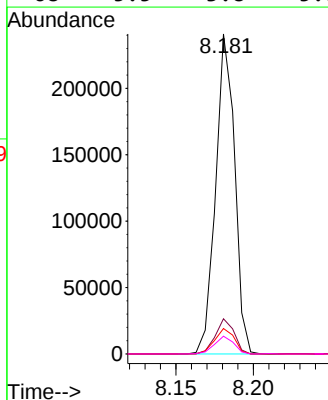
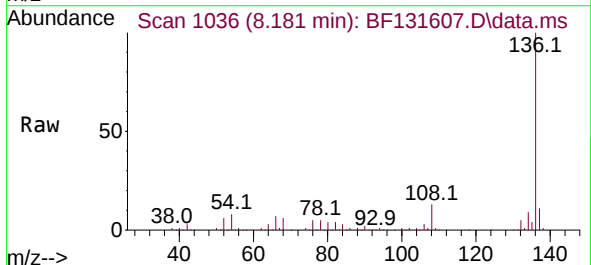
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1036
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

Tgt Ion:136 Resp: 205219
Ion Ratio Lower Upper
136 100
137 11.0 8.1 12.1
54 7.9 6.0 9.0
68 5.5 3.8 5.8





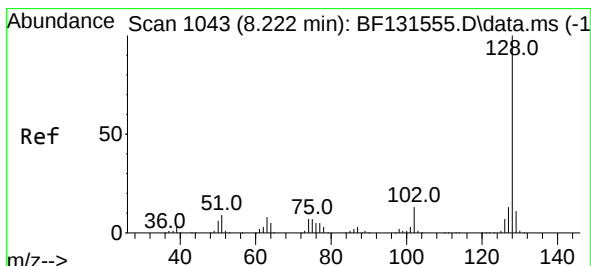
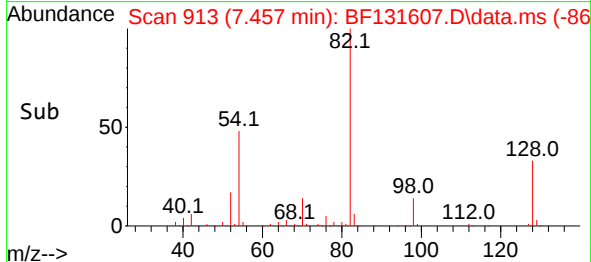
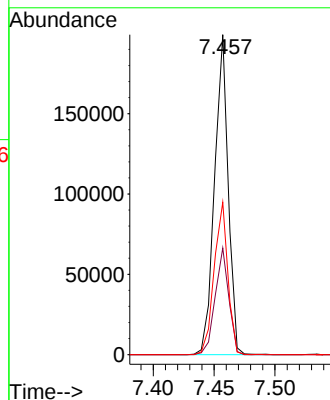
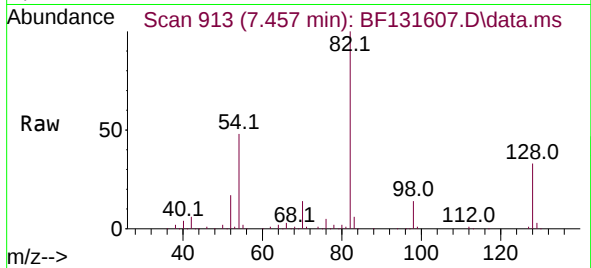
#23
Nitrobenzene-d5
Concen: 28.472 ng
RT: 7.457 min Scan# 917
Delta R.T. -0.012 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04

Tgt Ion: 82 Resp: 154550
Ion Ratio Lower Upper
82 100
128 33.3 26.1 39.1
54 47.6 40.6 60.8

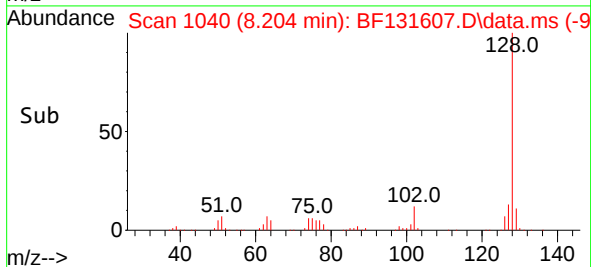
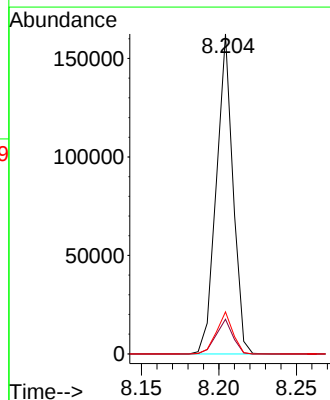
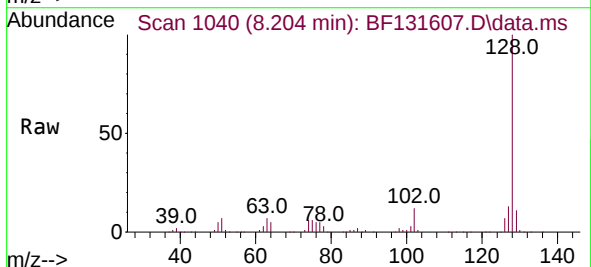
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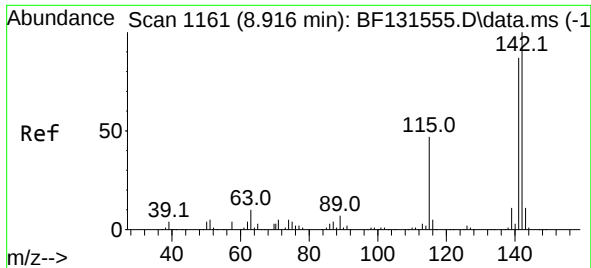
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#31
Naphthalene
Concen: 10.481 ng
RT: 8.204 min Scan# 1040
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

Tgt Ion:128 Resp: 121140
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 13.1 10.6 15.8





#37

2-Methylnaphthalene

Concen: 6.301 ng

RT: 8.898 min Scan# 1158

Delta R.T. -0.006 min

Lab File: BF131607.D

Acq: 12 Dec 2022 22:53

Instrument :

BNA_F

ClientSampleId :

SU-518-COMP-04

Tgt Ion:142 Resp: 49806

Ion Ratio Lower Upper

142 100

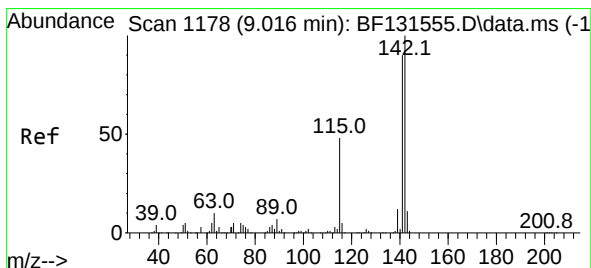
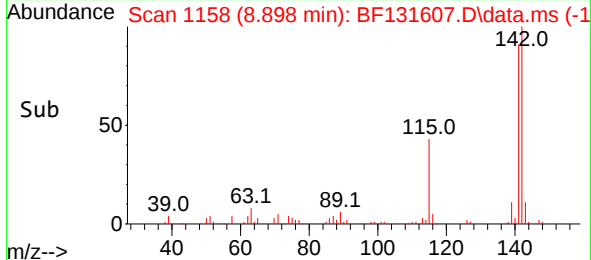
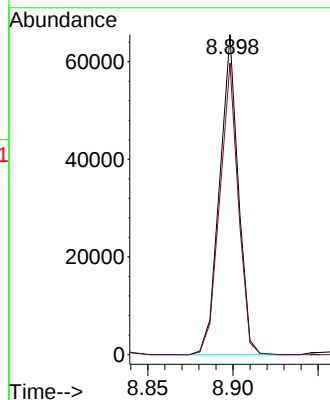
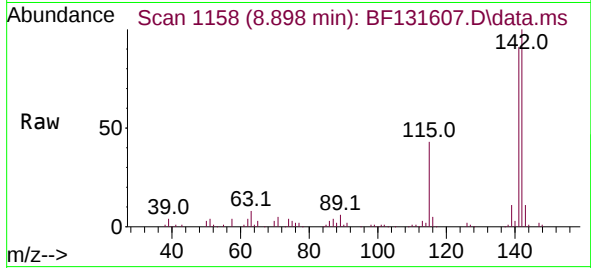
141 91.1 69.7 104.5

Manual Integrations

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Supervised By :Jagrut Upadhyay 12/13/2022



#38

1-Methylnaphthalene

Concen: 5.505 ng

RT: 8.998 min Scan# 1175

Delta R.T. -0.006 min

Lab File: BF131607.D

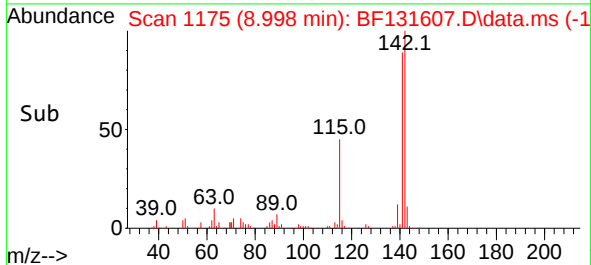
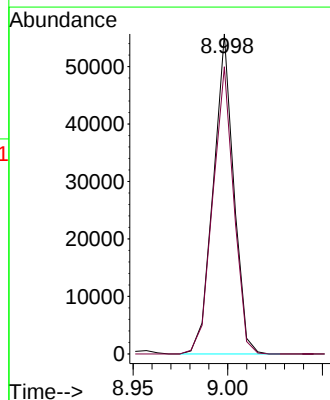
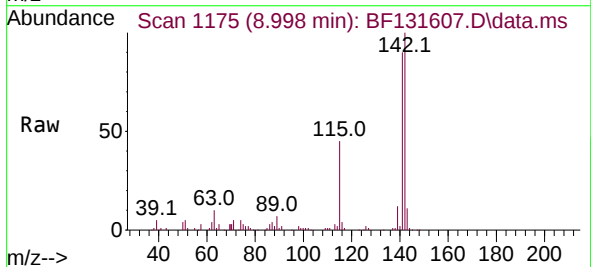
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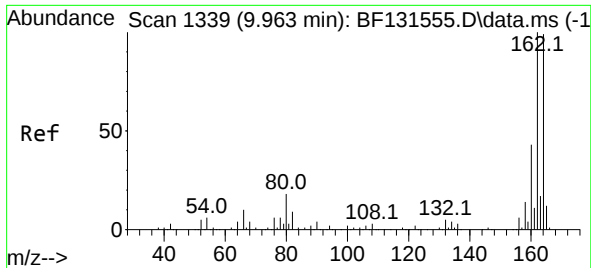
Tgt Ion:142 Resp: 41771

Ion Ratio Lower Upper

142 100

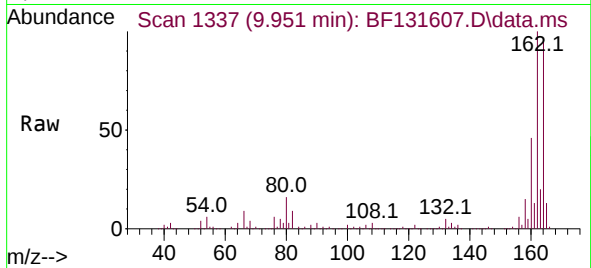
141 89.7 71.9 107.9





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.951 min Scan# 1339
Delta R.T. 0.000 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

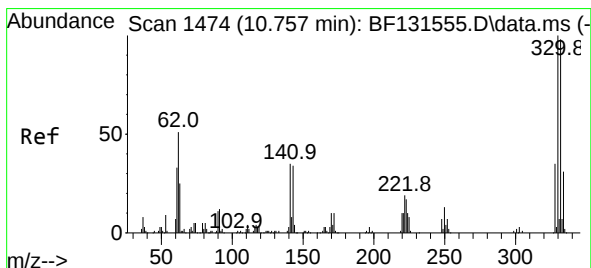
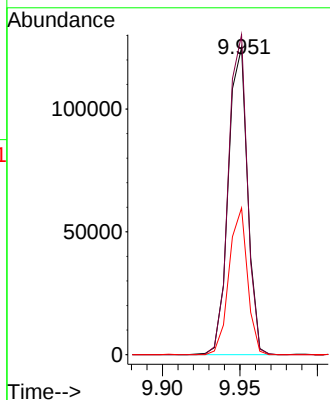
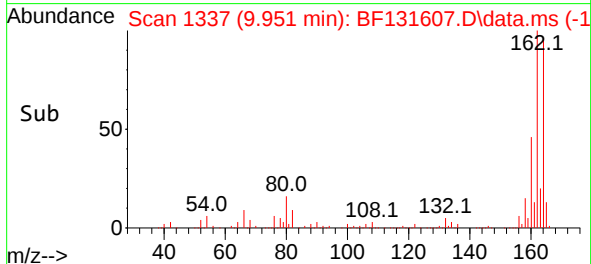
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



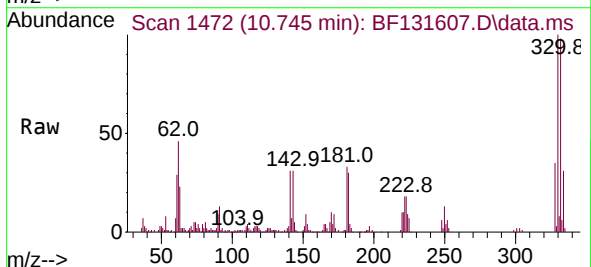
Tgt Ion:164 Resp: 108635
Ion Ratio Lower Upper
164 100
162 104.1 81.0 121.6
160 47.7 35.0 52.6

Manual Integrations
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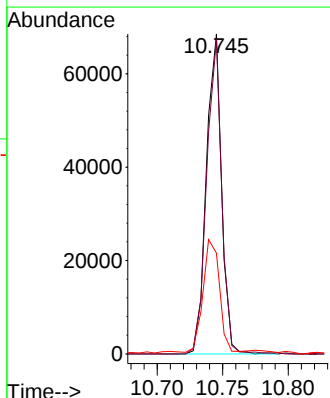
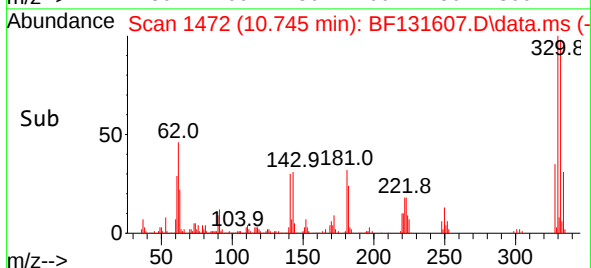
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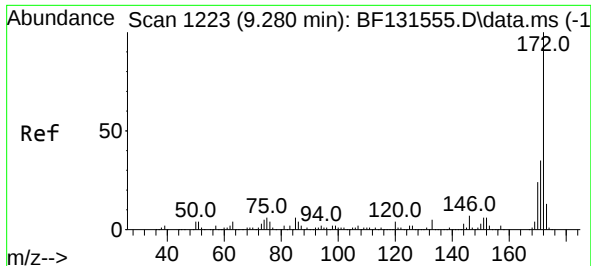


#42
2,4,6-Tribromophenol
Concen: 45.450 ng
RT: 10.745 min Scan# 1472
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53



Tgt Ion:330 Resp: 54857
Ion Ratio Lower Upper
330 100
332 97.9 78.3 117.5
141 39.5 32.6 49.0





#45

2-Fluorobiphenyl

Concen: 29.650 ng

RT: 9.263 min Scan# 1312

Delta R.T. -0.006 min

Lab File: BF131607.D

Acq: 12 Dec 2022 22:53

Instrument :

BNA_F

ClientSampleId :

SU-518-COMP-04

Tgt Ion:172 Resp: 255459

Ion Ratio Lower Upper

172 100

171 35.1 28.3 42.5

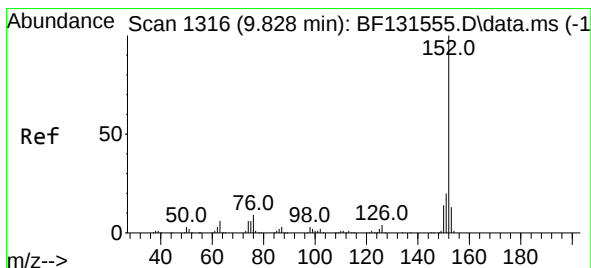
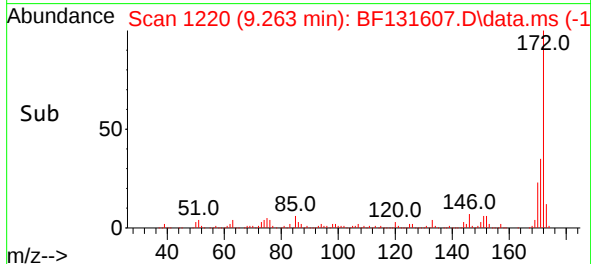
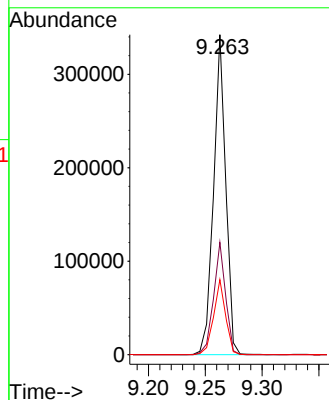
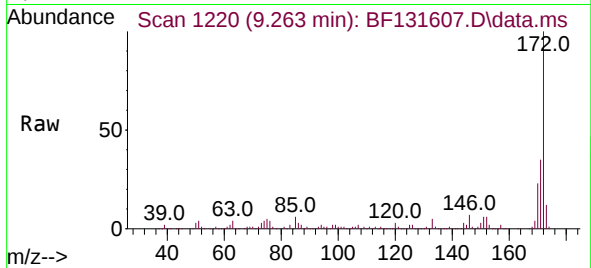
170 23.5 19.3 28.9

Manual Integrations

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Reviewed By :Christian Giraldo 12/13/2022

Supervised By :Jagrut Upadhyay 12/13/2022



#49

Acenaphthylene

Concen: 8.538 ng

RT: 9.810 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF131607.D

Acq: 12 Dec 2022 22:53

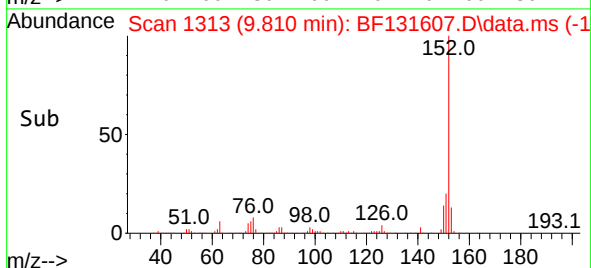
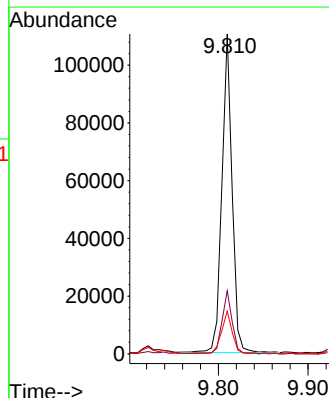
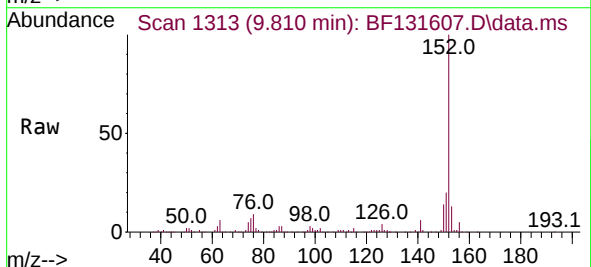
Tgt Ion:152 Resp: 87735

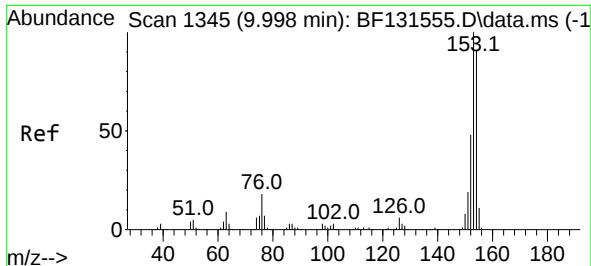
Ion Ratio Lower Upper

152 100

151 19.7 15.6 23.4

153 13.4 10.4 15.6





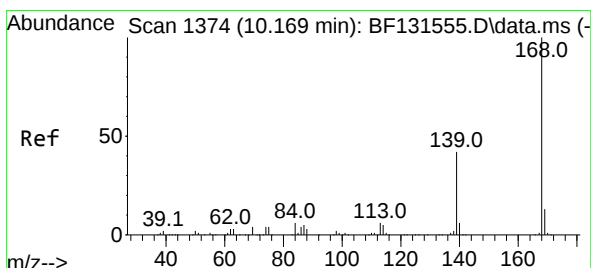
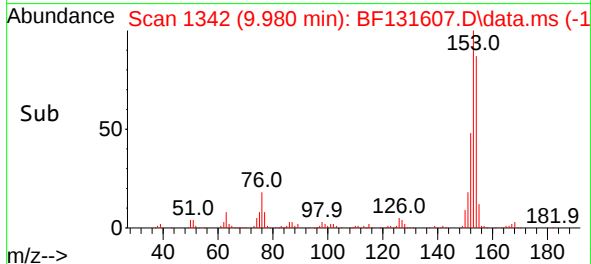
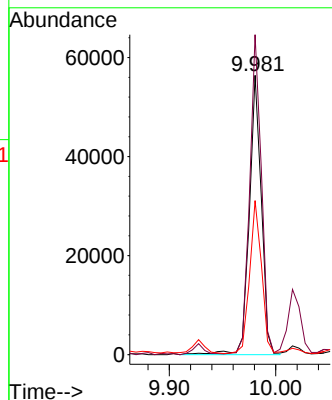
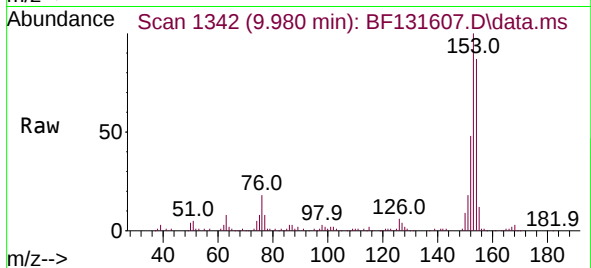
#52
Acenaphthene
Concen: 6.402 ng
RT: 9.980 min Scan# 1345
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04

Tgt Ion:154 Resp: 44062
Ion Ratio Lower Upper
154 100
153 114.5 87.9 131.9
152 55.1 42.4 63.6

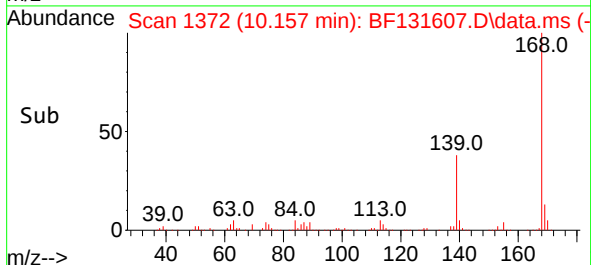
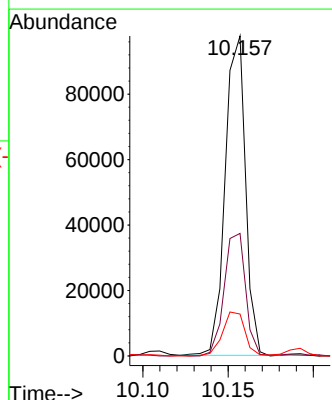
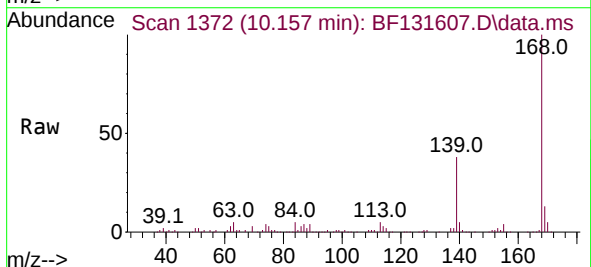
Manual Integrations
APPROVED

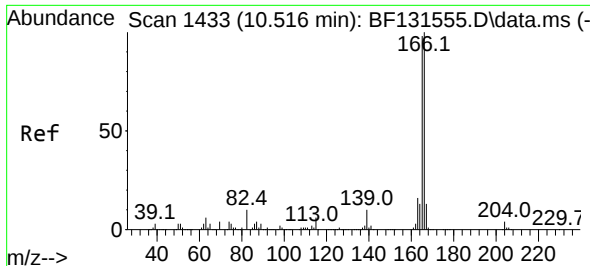
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#55
Dibenzofuran
Concen: 8.312 ng
RT: 10.157 min Scan# 1372
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

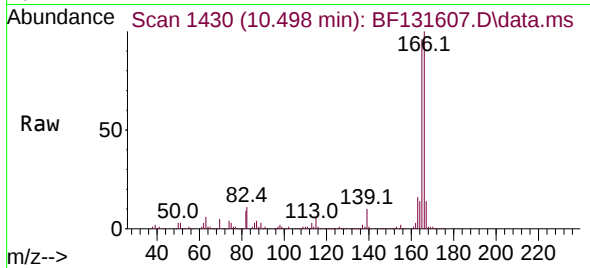
Tgt Ion:168 Resp: 80845
Ion Ratio Lower Upper
168 100
139 38.3 33.9 50.9
169 13.1 10.7 16.1





#58
Fluorene
Concen: 16.089 ng
RT: 10.498 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

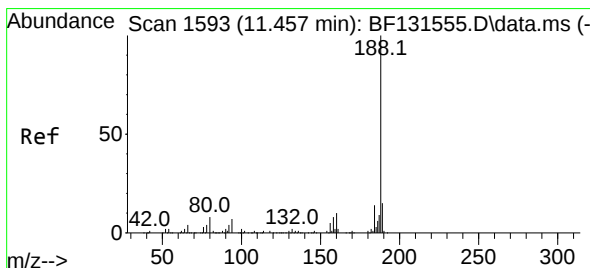
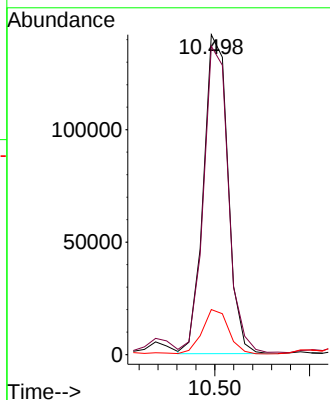
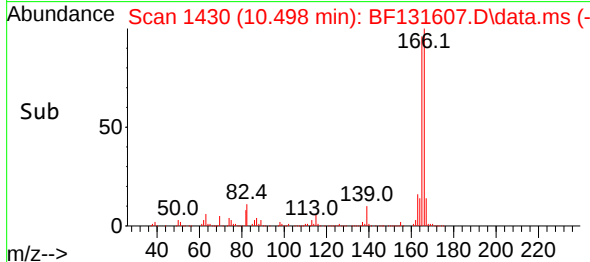
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



Tgt Ion:166 Resp: 127209
Ion Ratio Lower Upper
166 100
165 96.4 78.4 117.6
167 14.1 10.7 16.1

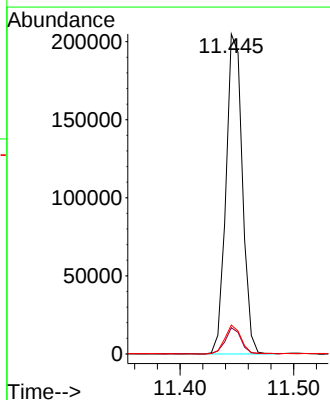
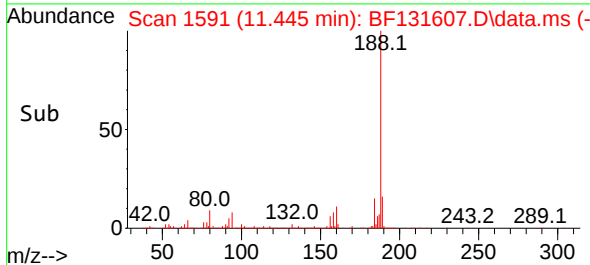
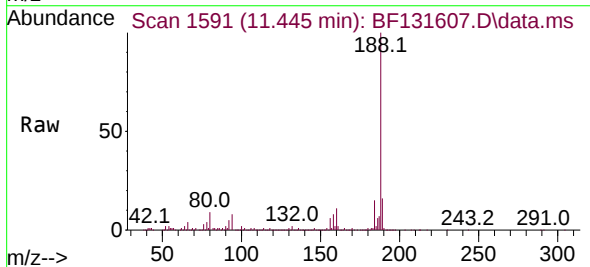
Manual Integrations
APPROVED

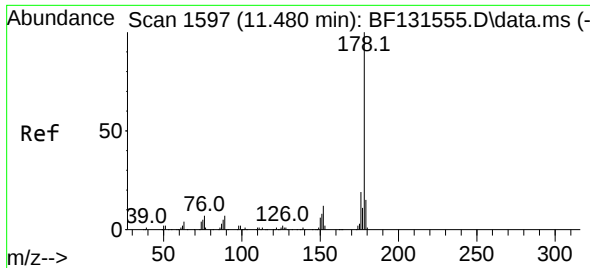
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

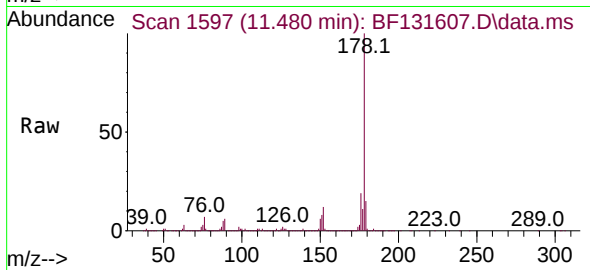
Tgt Ion:188 Resp: 204947
Ion Ratio Lower Upper
188 100
94 8.2 5.5 8.3
80 9.0 6.6 10.0





#71
Phenanthrene
Concen: 72.161 ng
RT: 11.480 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

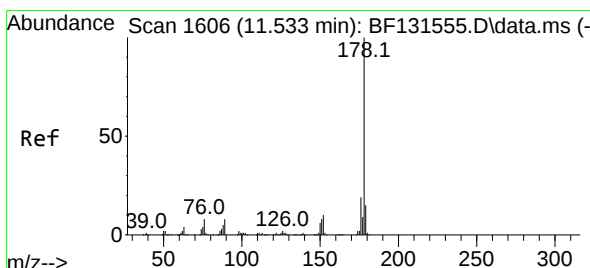
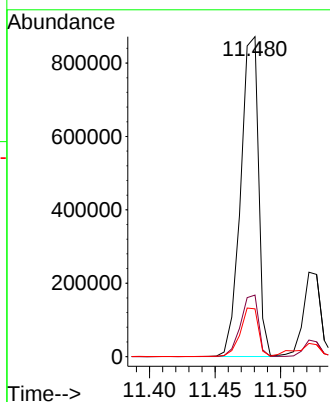
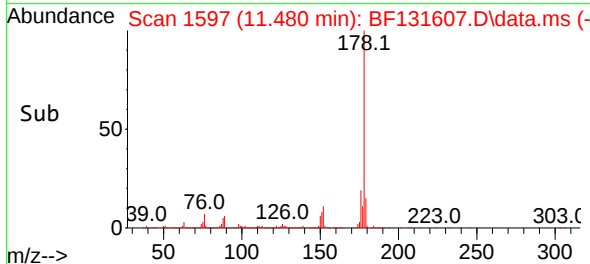
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



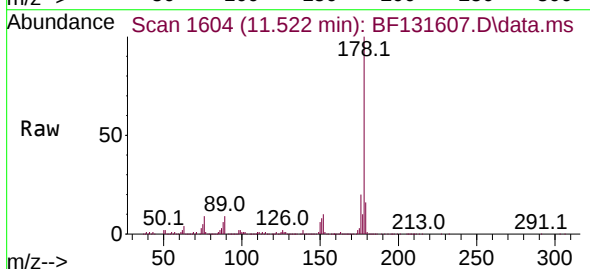
Tgt Ion:178 Resp: 824332
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 14.9 12.2 18.4

Manual Integrations
APPROVED

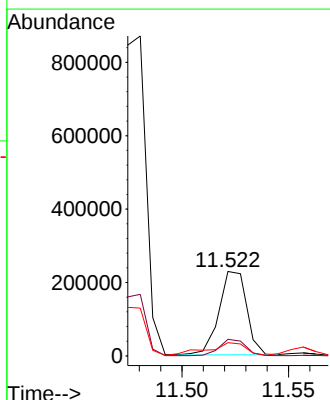
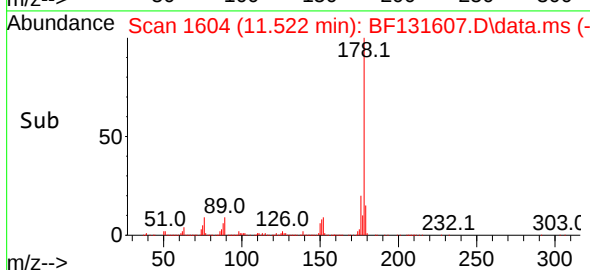
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022

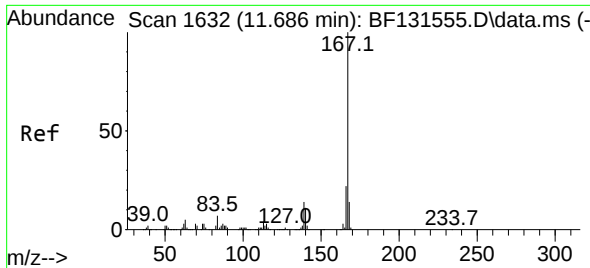


#72
Anthracene
Concen: 18.506 ng
RT: 11.522 min Scan# 1604
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53



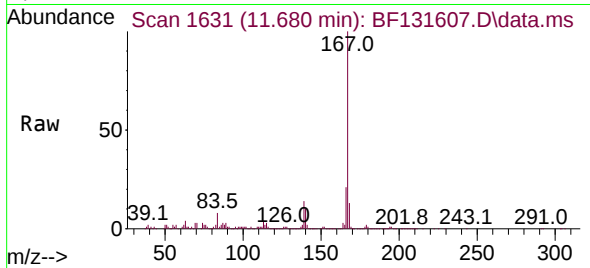
Tgt Ion:178 Resp: 205682
Ion Ratio Lower Upper
178 100
176 19.6 15.0 22.6
179 15.7 12.3 18.5





#73
Carbazole
Concen: 13.534 ng
RT: 11.680 min Scan# 1632
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

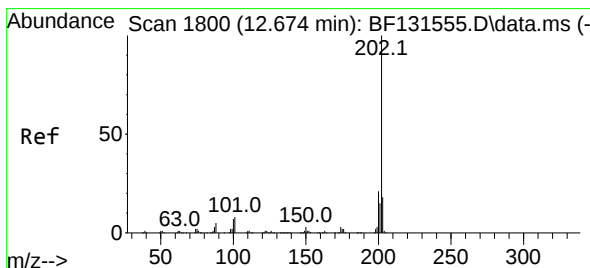
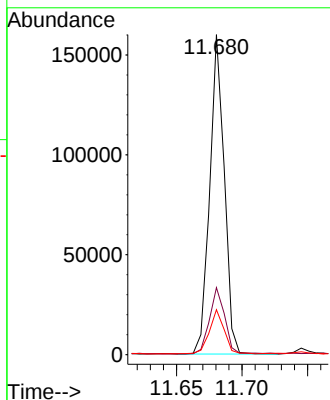
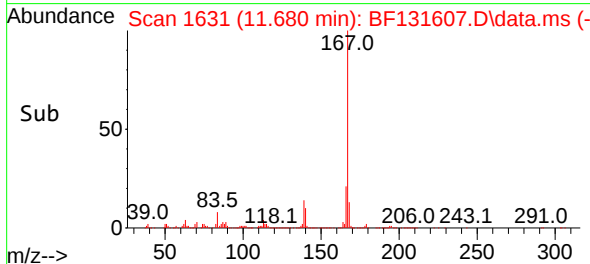
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



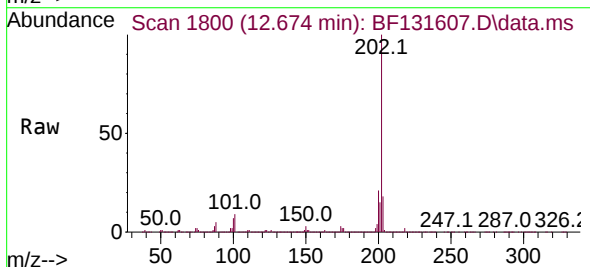
Tgt Ion:167 Resp: 122781
Ion Ratio Lower Upper
167 100
166 20.9 17.4 26.0
139 14.0 11.0 16.4

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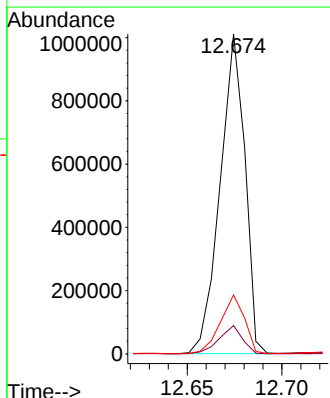
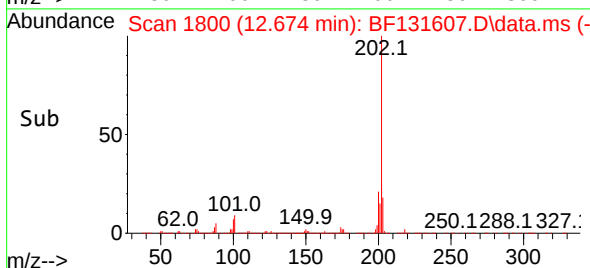
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022

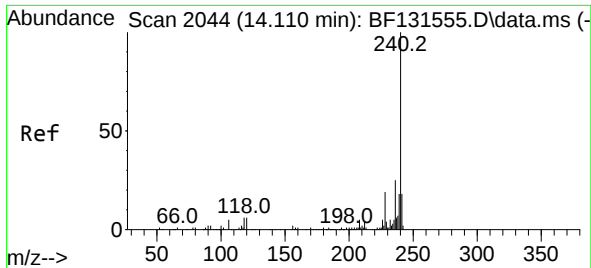


#75
Fluoranthene
Concen: 78.274 ng
RT: 12.674 min Scan# 1800
Delta R.T. 0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53



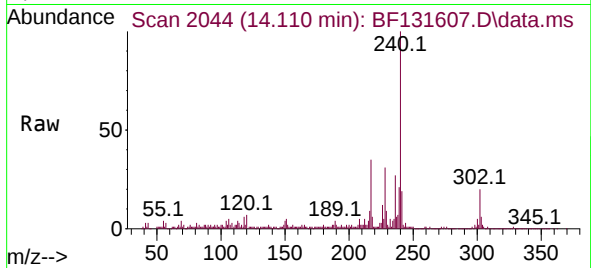
Tgt Ion:202 Resp: 920750
Ion Ratio Lower Upper
202 100
101 8.8 0.0 27.7
203 18.4 0.0 37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.110 min Scan# 2044
Delta R.T. 0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

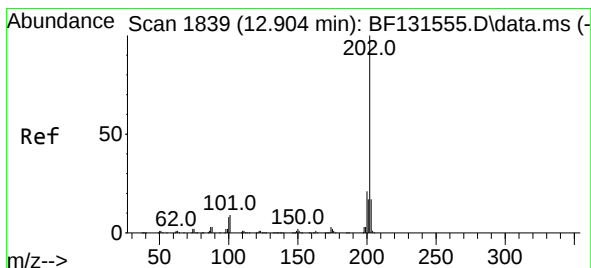
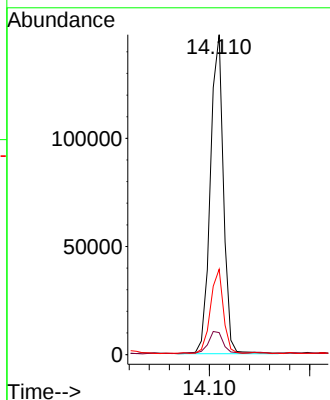
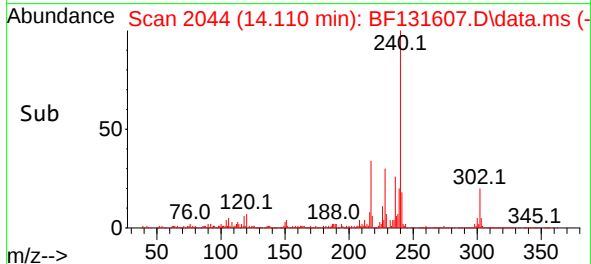
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



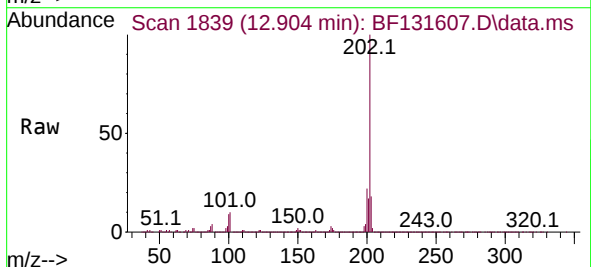
Tgt Ion:240 Resp: 133709
Ion Ratio Lower Upper
240 100
120 6.9 4.6 7.0
236 26.7 20.2 30.2

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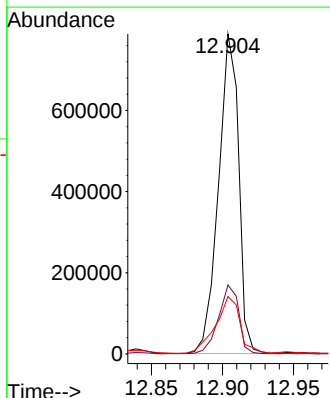
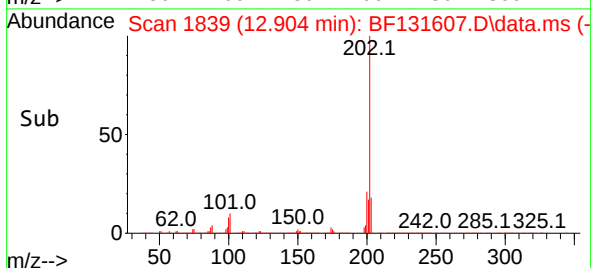
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022

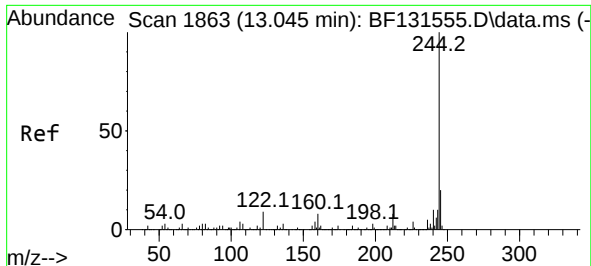


#78
Pyrene
Concen: 59.067 ng
RT: 12.904 min Scan# 1839
Delta R.T. 0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53



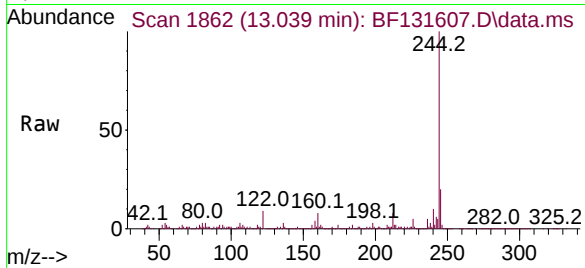
Tgt Ion:202 Resp: 778764
Ion Ratio Lower Upper
202 100
200 21.5 16.7 25.1
203 17.9 13.8 20.6





#79
 Terphenyl-d14
 Concen: 29.549 ng
 RT: 13.039 min Scan# 1863
 Delta R.T. -0.006 min
 Lab File: BF131607.D
 Acq: 12 Dec 2022 22:53

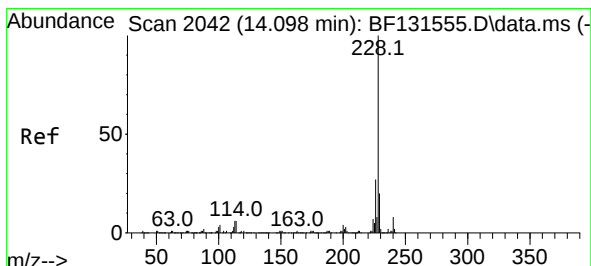
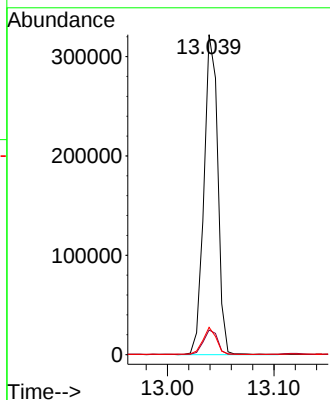
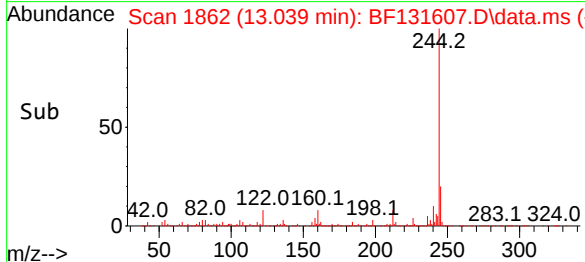
Instrument :
 BNA_F
 ClientSampleId :
 SU-518-COMP-04



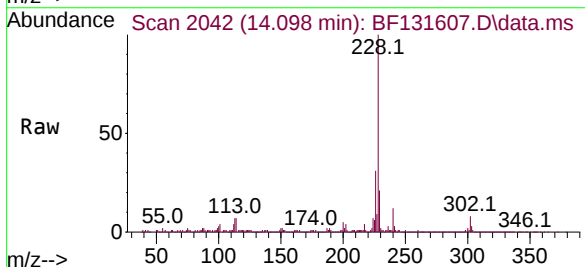
Tgt Ion:244 Resp: 288100
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 8.5 7.1 10.7

Manual Integrations
 APPROVED

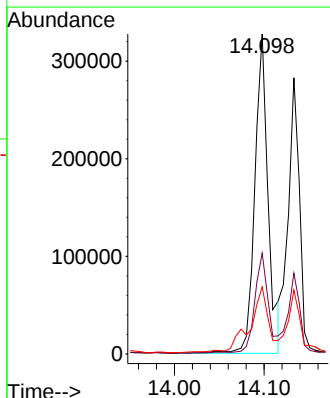
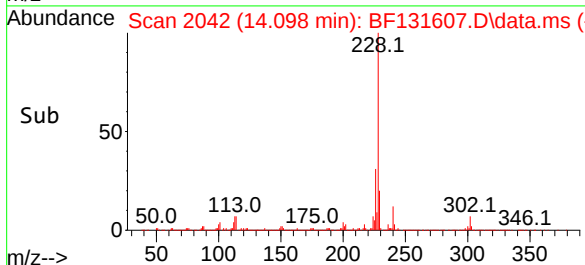
Reviewed By :Christian Giraldo 12/13/2022
 Supervised By :Jagrut Upadhyay 12/13/2022

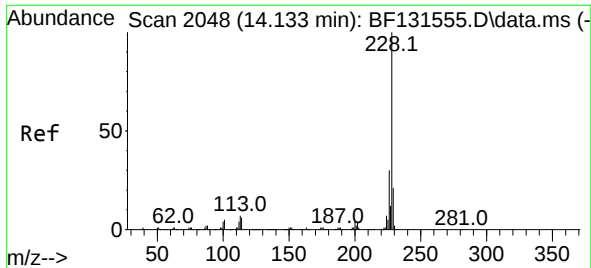


#81
 Benzo(a)anthracene
 Concen: 34.824 ng
 RT: 14.098 min Scan# 2042
 Delta R.T. 0.006 min
 Lab File: BF131607.D
 Acq: 12 Dec 2022 22:53



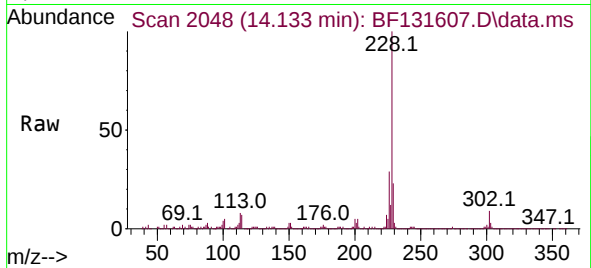
Tgt Ion:228 Resp: 336261
 Ion Ratio Lower Upper
 228 100
 226 31.5 21.5 32.3
 229 20.9 15.8 23.6





#83
Chrysene
Concen: 26.915 ng
RT: 14.133 min Scan# 2048
Delta R.T. 0.000 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

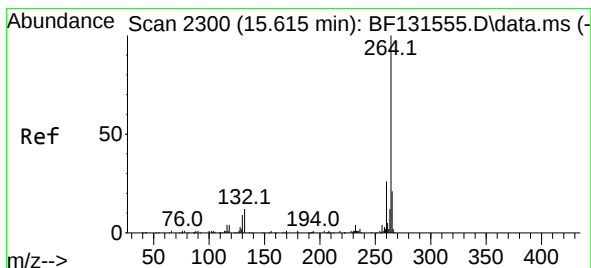
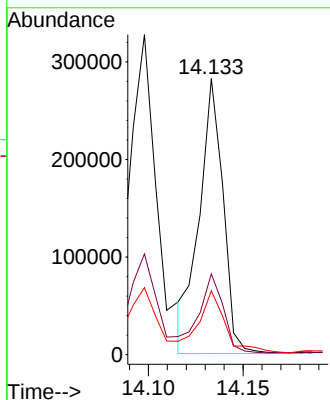
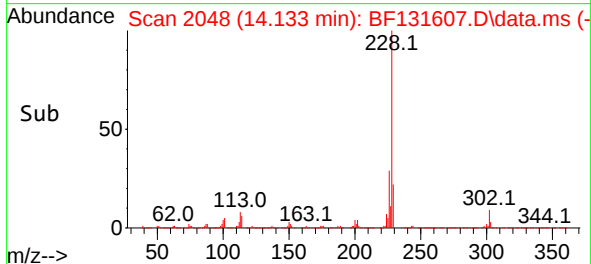
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



Tgt Ion:228 Resp: 247080
Ion Ratio Lower Upper
228 100
226 29.3 23.9 35.9
229 23.1 16.7 25.1

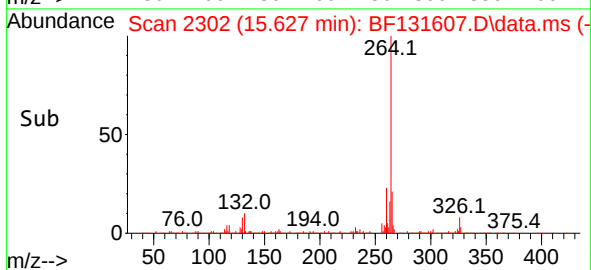
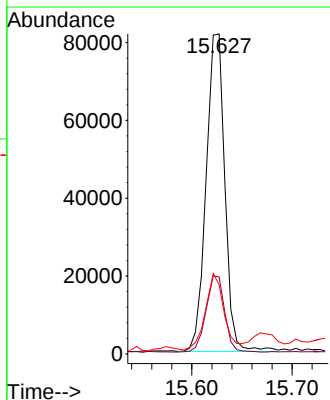
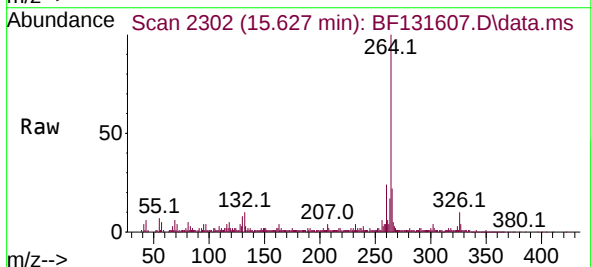
Manual Integrations
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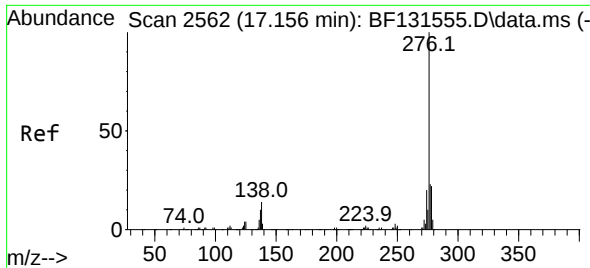
Reviewed By :Christian Giraldo 12/13/2022
Supervised By :Jagrut Upadhyay 12/13/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.627 min Scan# 2302
Delta R.T. 0.012 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

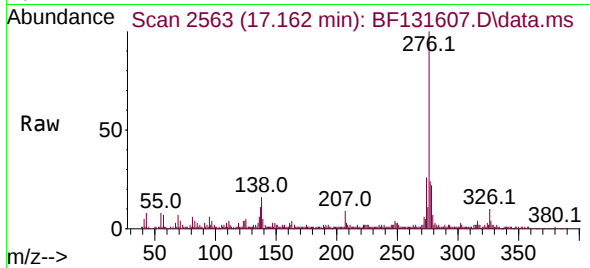
Tgt Ion:264 Resp: 105965
Ion Ratio Lower Upper
264 100
260 24.0 20.6 30.8
265 21.6 16.8 25.2





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 10.110 ng
 RT: 17.162 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BF131607.D
 Acq: 12 Dec 2022 22:53

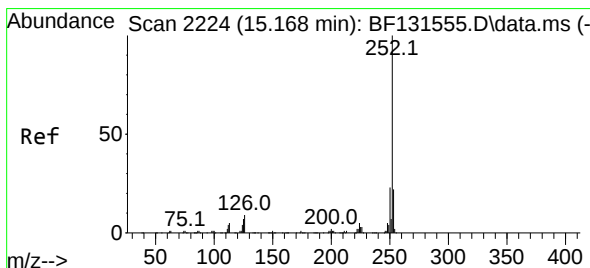
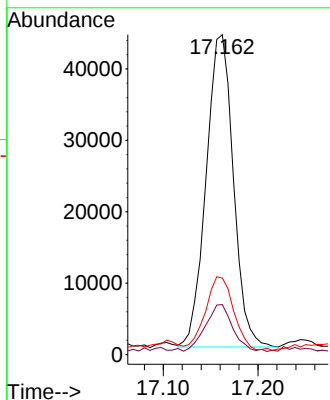
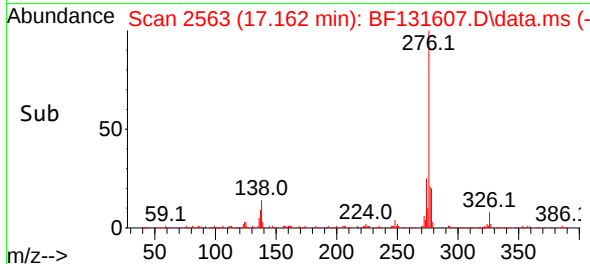
Instrument :
 BNA_F
 ClientSampleId :
 SU-518-COMP-04



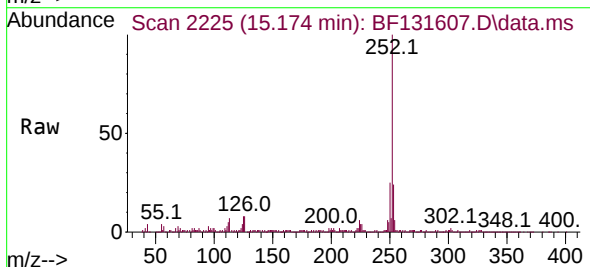
Tgt Ion:276 Resp: 87433
 Ion Ratio Lower Upper
 276 100
 138 15.3 12.7 19.1
 277 23.8 20.0 30.0

Manual Integrations
 APPROVED

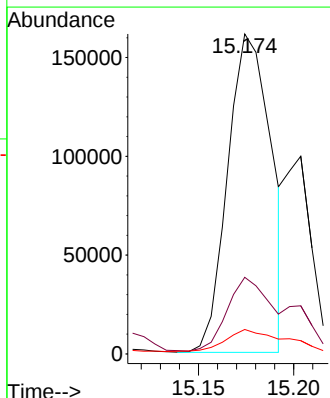
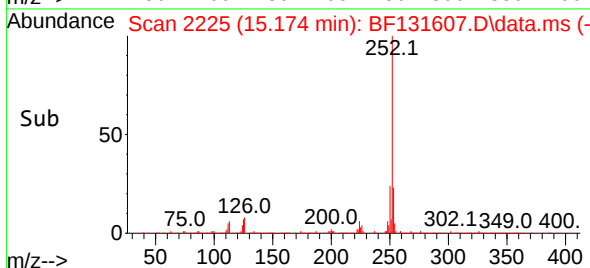
Reviewed By :Christian Giraldo 12/13/2022
 Supervised By :Jagrut Upadhyay 12/13/2022

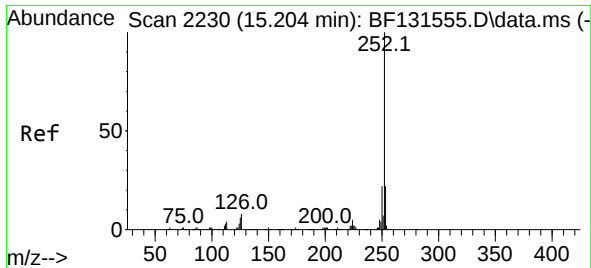


#88
 Benzo(b)fluoranthene
 Concen: 36.634 ng m
 RT: 15.174 min Scan# 2225
 Delta R.T. 0.006 min
 Lab File: BF131607.D
 Acq: 12 Dec 2022 22:53



Tgt Ion:252 Resp: 255848
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.7 26.5
 125 7.6 5.6 8.4





#89

Benzo(k)fluoranthene

Concen: 12.994 ng m

RT: 15.204 min Scan# 2230

Delta R.T. 0.000 min

Lab File: BF131607.D

Acq: 12 Dec 2022 22:53

Instrument :

BNA_F

ClientSampleId :

SU-518-COMP-04

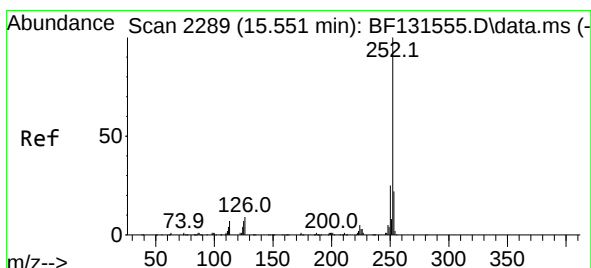
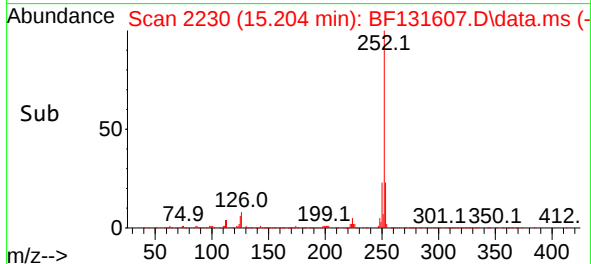
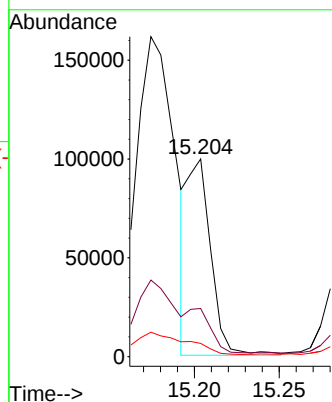
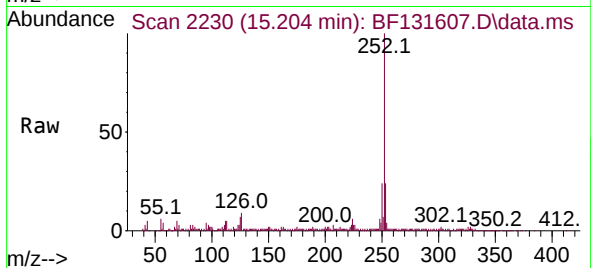
Tgt Ion:252 Resp: 94724

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.7	26.5
125	6.7	4.9	7.3

Manual Integrations

APPROVED

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



#90

Benzo(a)pyrene

Concen: 31.164 ng

RT: 15.562 min Scan# 2291

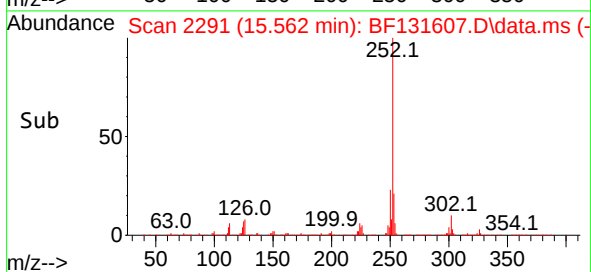
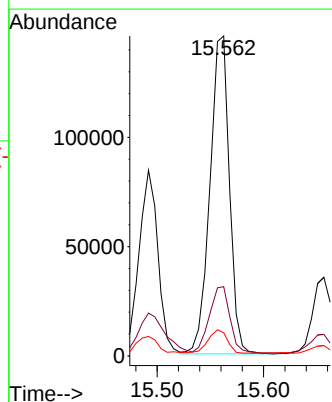
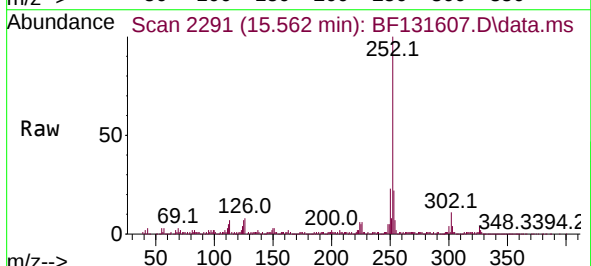
Delta R.T. 0.012 min

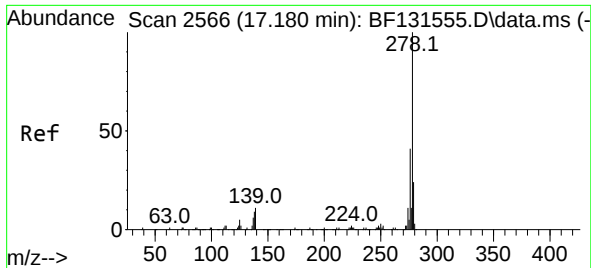
Lab File: BF131607.D

Acq: 12 Dec 2022 22:53

Tgt Ion:252 Resp: 185744

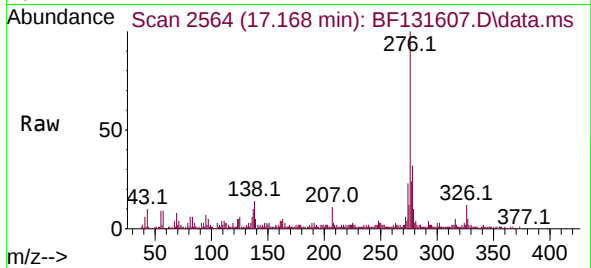
Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	7.2	5.6	8.4





#91
Dibenzo(a,h)anthracene
Concen: 3.706 ng
RT: 17.168 min Scan# 2566
Delta R.T. -0.006 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

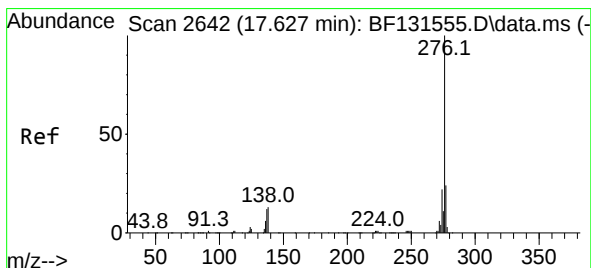
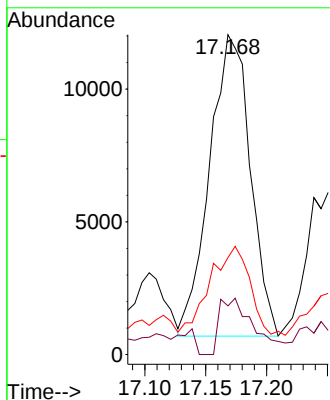
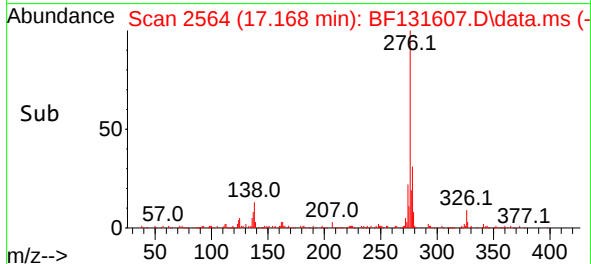
Instrument :
BNA_F
ClientSampleId :
SU-518-COMP-04



Tgt Ion: 278 Resp: 26375
Ion Ratio Lower Upper
278 100
139 15.2 8.9 13.3
279 30.3 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: 10.802 ng
RT: 17.627 min Scan# 2642
Delta R.T. 0.000 min
Lab File: BF131607.D
Acq: 12 Dec 2022 22:53

Tgt Ion: 276 Resp: 77270
Ion Ratio Lower Upper
276 100
277 25.6 19.0 28.6
138 17.3 10.7 16.1

