

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051122\
 Data File : BF128212.D
 Acq On : 11 May 2022 23:39
 Operator : CG\JU
 Sample : N2769-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-051022

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/12/2022
 Supervised By : Jagrut Upadhyay 05/12/2022

Quant Time: May 12 06:02:02 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 15:30:11 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	74748	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	270516	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	135913	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	206205	20.000	ng	0.00
76) Chrysene-d12	14.086	240	145755	20.000	ng	0.00
86) Perylene-d12	15.592	264	114827	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	405617	86.505	ng	0.00
7) Phenol-d6	6.522	99	533248	85.982	ng	0.00
23) Nitrobenzene-d5	7.457	82	376698	62.659	ng	0.00
42) 2,4,6-Tribromophenol	10.728	330	117492	75.375	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	595099	68.510	ng	0.00
79) Terphenyl-d14	13.016	244	502596	64.703	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.198	128	33877	2.536	ng	99
49) Acenaphthylene	9.798	152	93192	8.402	ng	98
52) Acenaphthene	9.969	154	68956	8.966	ng	98
55) Dibenzofuran	10.139	168	72110	6.604	ng	99
58) Fluorene	10.481	166	107766m	12.670	ng	
71) Phenanthrene	11.457	178	800004	77.914	ng	99
72) Anthracene	11.504	178	340132	33.179	ng	100
73) Carbazole	11.657	167	51918	5.326	ng	97
75) Fluoranthene	12.657	202	1760894	158.186	ng	99
78) Pyrene	12.886	202	1581940	149.684	ng	99
81) Benzo(a)anthracene	14.074	228	1136767	122.104	ng	96
83) Chrysene	14.116	228	884599	99.583	ng	98
87) Indeno(1,2,3-cd)pyrene	17.133	276	494000	71.119	ng	# 93
88) Benzo(b)fluoranthene	15.157	252	1381167m	194.037	ng	
89) Benzo(k)fluoranthene	15.180	252	276724m	39.383	ng	
90) Benzo(a)pyrene	15.539	252	828969m	144.254	ng	
91) Dibenzo(a,h)anthracene	17.133	278	137945m	24.530	ng	
92) Benzo(g,h,i)perylene	17.598	276	436293	76.625	ng	96

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

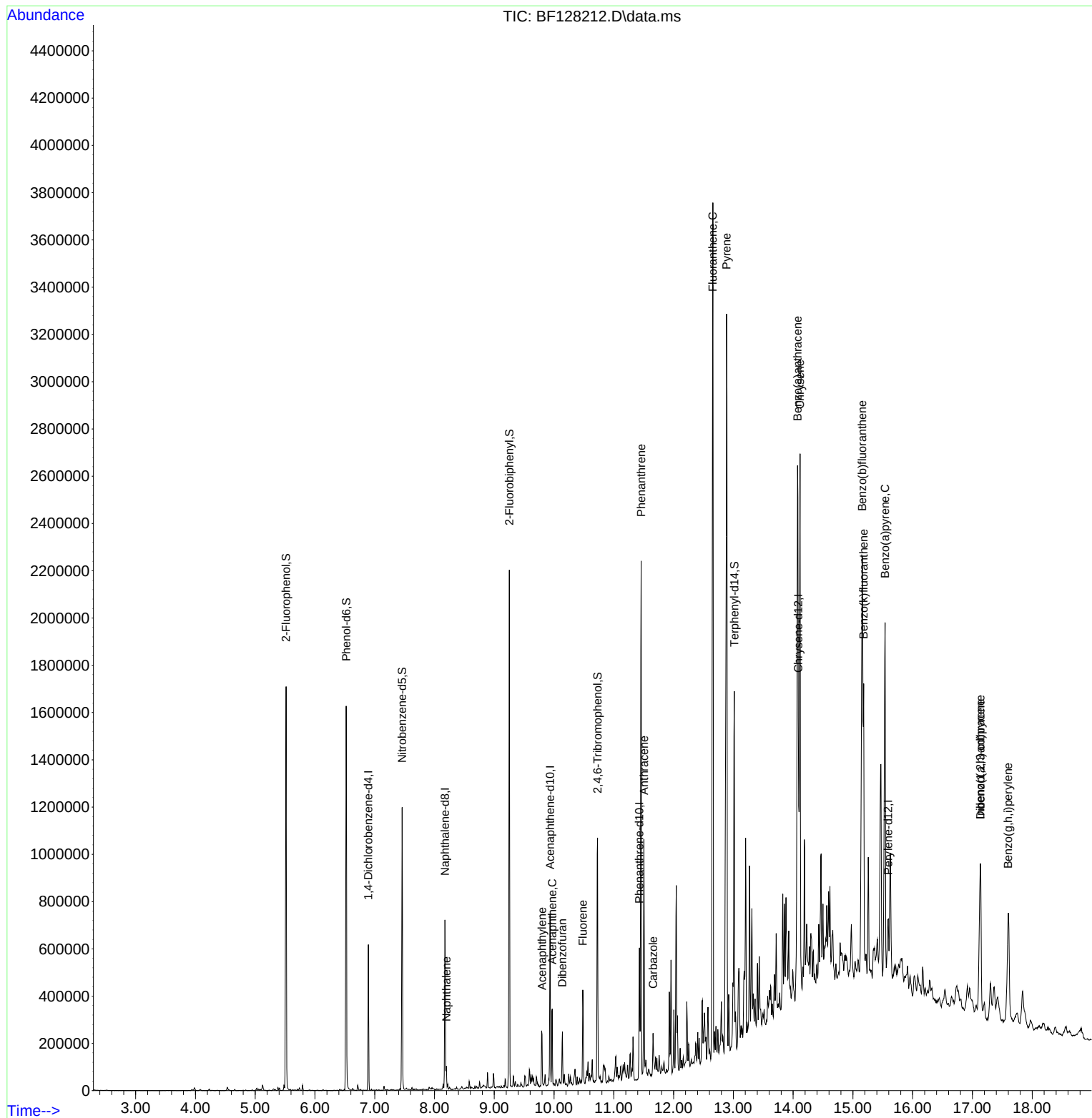
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051122\
Data File : BF128212.D
Acq On : 11 May 2022 23:39
Operator : CG\JU
Sample : N2769-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

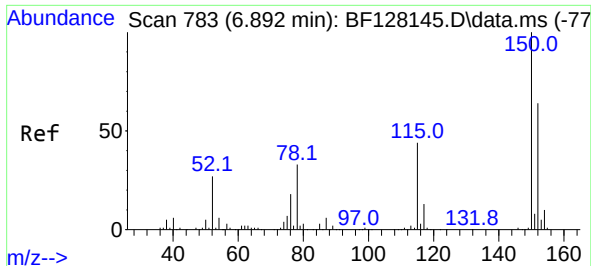
Instrument :
BNA_F
ClientSampleId :
CL-02-051022

Quant Time: May 12 06:02:02 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 09 15:30:11 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 05/12/2022
Supervised By : Jagrut Upadhyay 05/12/2022





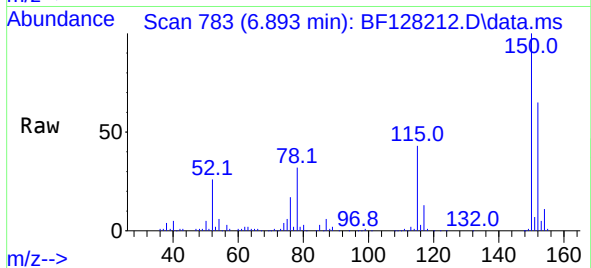
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 71
Delta R.T. 0.001 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022

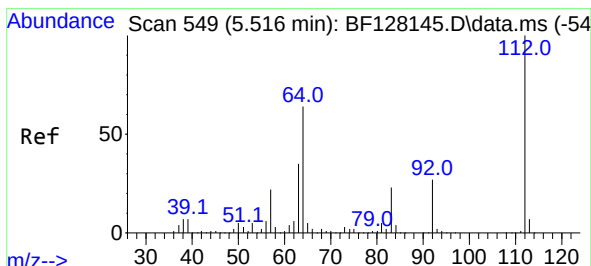
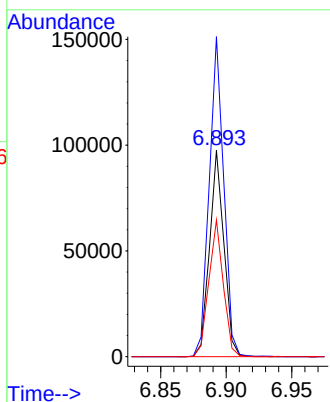
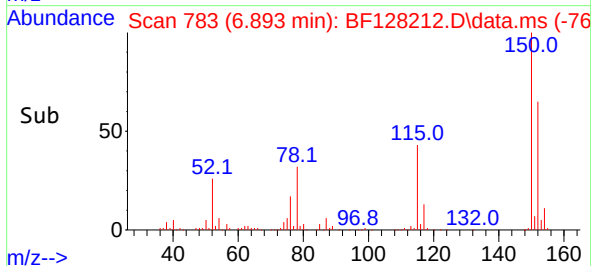


Tgt Ion:152 Resp: 74748
Ion Ratio Lower Upper
152 100
150 155.0 125.3 187.9
115 66.2 48.8 73.2

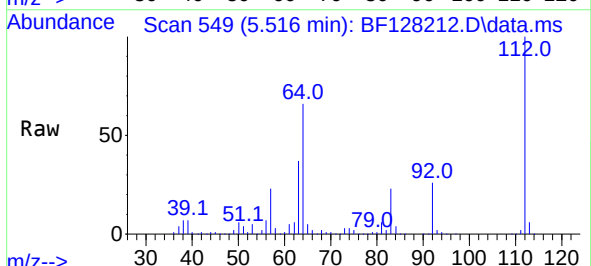
Manual Integrations

APPROVED

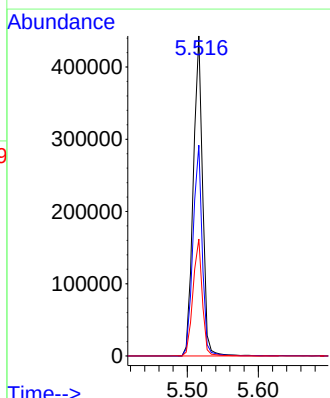
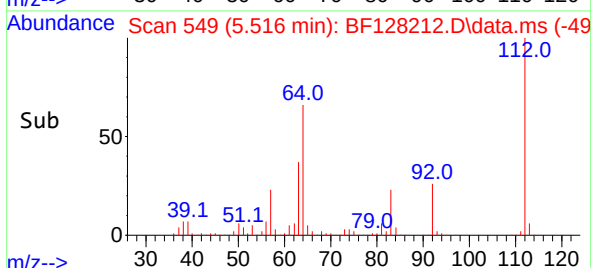
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022

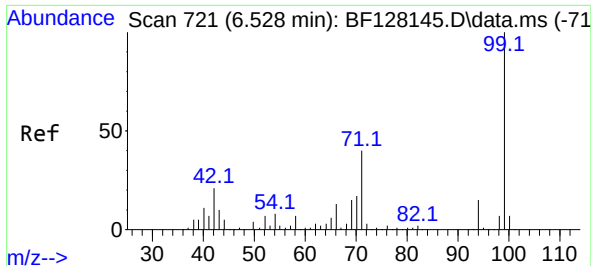


#5
2-Fluorophenol
Concen: 86.505 ng
RT: 5.516 min Scan# 549
Delta R.T. 0.000 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39



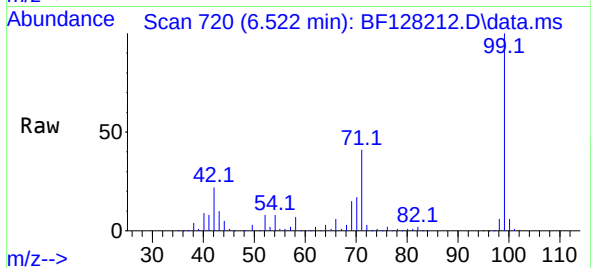
Tgt Ion:112 Resp: 405617
Ion Ratio Lower Upper
112 100
64 65.9 49.5 74.3
63 36.5 26.3 39.5





#7
Phenol-d6
Concen: 85.982 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

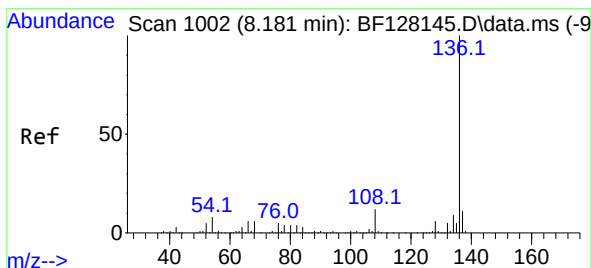
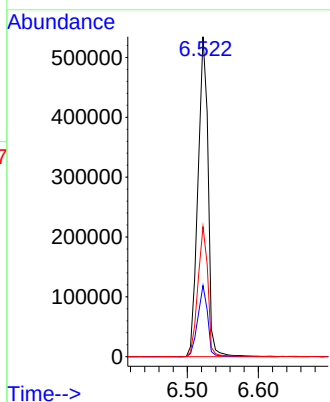
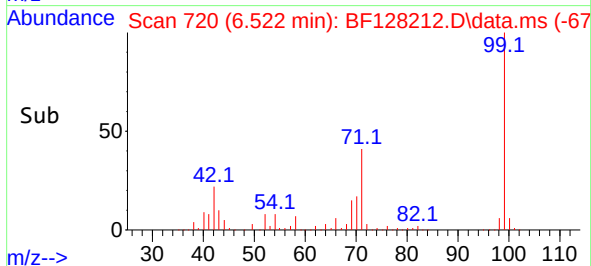
Instrument :
BNA_F
ClientSampleId :
CL-02-051022



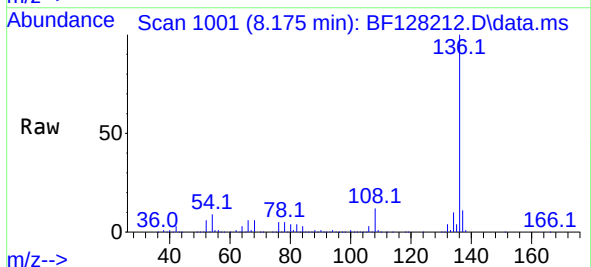
Tgt Ion: 99 Resp: 533248
Ion Ratio Lower Upper
99 100
42 22.3 16.6 24.8
71 40.6 30.0 45.0

Manual Integrations
APPROVED

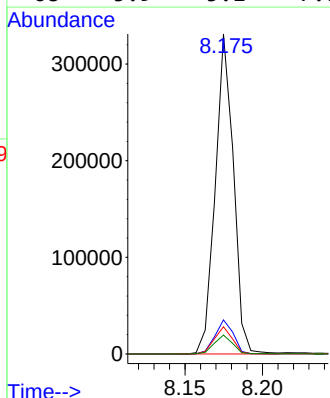
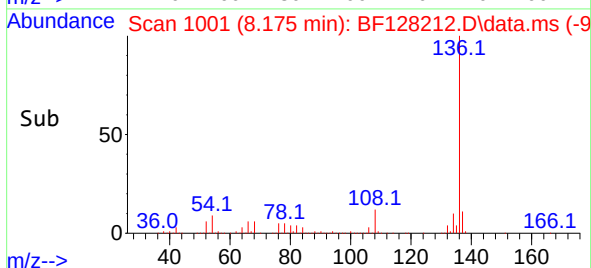
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022

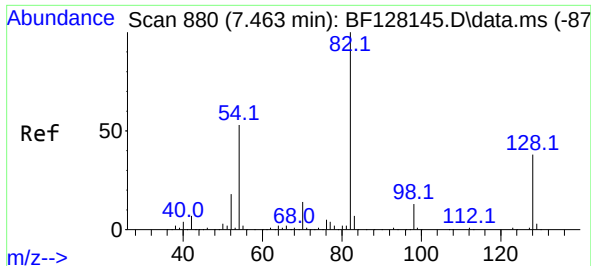


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1001
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39



Tgt Ion:136 Resp: 270516
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 8.5 6.8 10.2
68 5.9 5.1 7.7





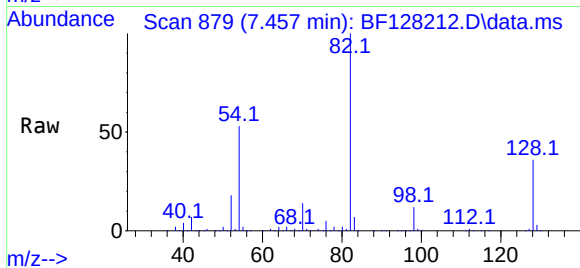
#23
Nitrobenzene-d5
Concen: 62.659 ng
RT: 7.457 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022

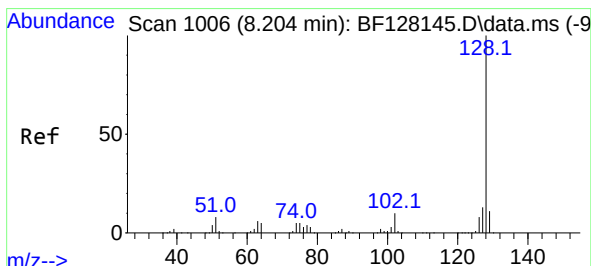
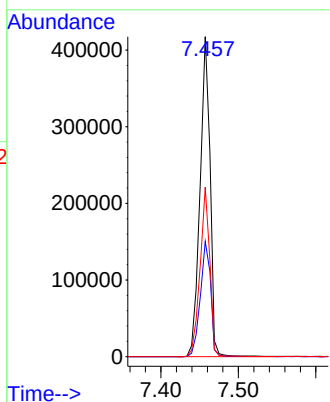
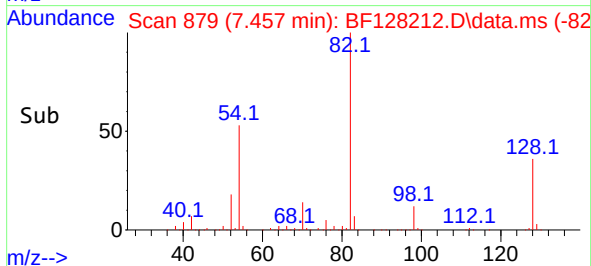


Tgt Ion: 82 Resp: 376698
Ion Ratio Lower Upper
82 100
128 36.0 30.0 45.0
54 52.9 41.3 61.9

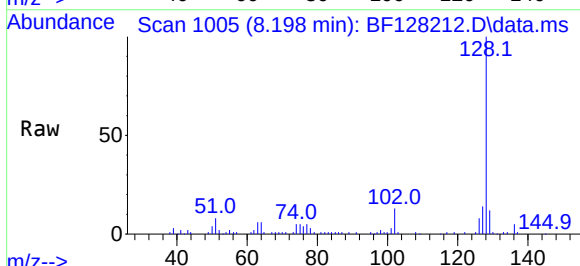
Manual Integrations

APPROVED

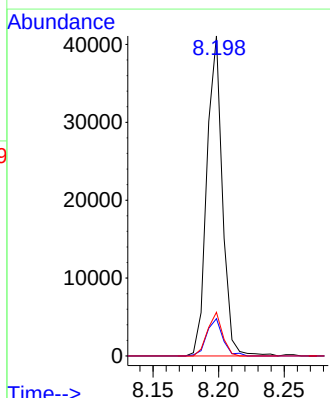
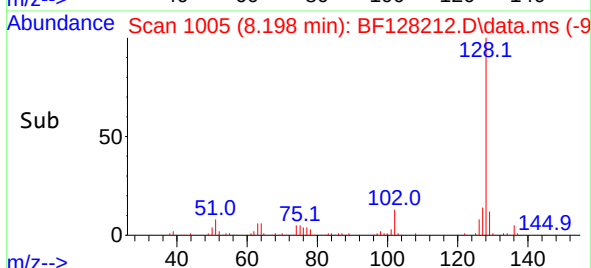
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022

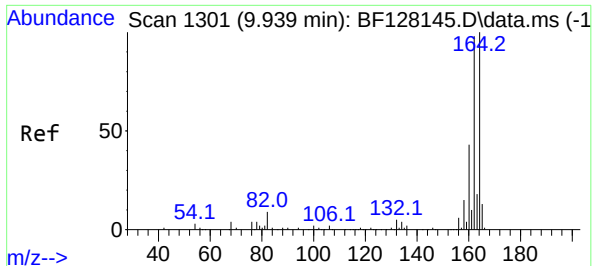


#31
Naphthalene
Concen: 2.536 ng
RT: 8.198 min Scan# 1005
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39



Tgt Ion:128 Resp: 33877
Ion Ratio Lower Upper
128 100
129 11.7 9.0 13.4
127 13.6 10.6 16.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 11

Delta R.T. -0.005 min

Lab File: BF128212.D

Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022

Tgt Ion:164 Resp: 13591

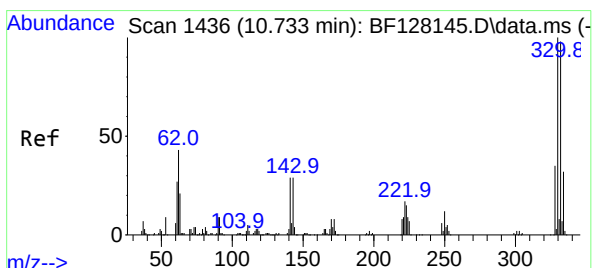
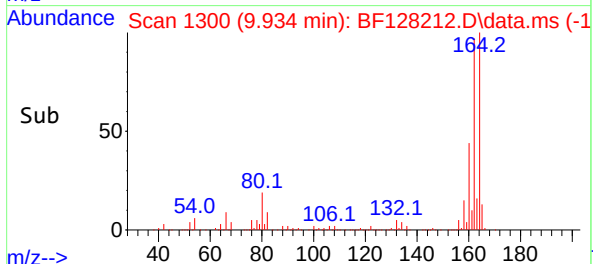
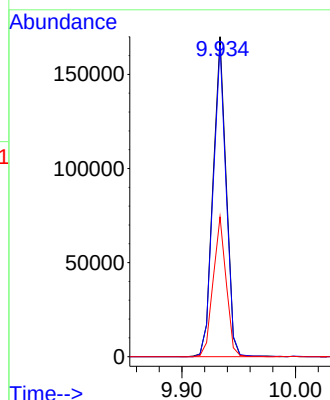
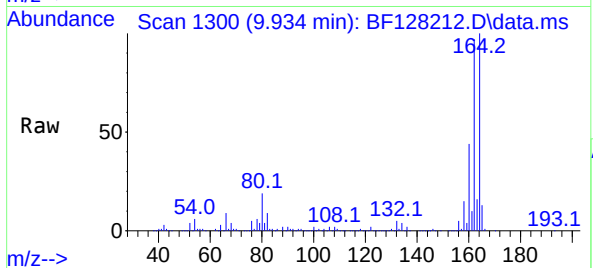
Ion	Ratio	Lower	Upper
164	100		
162	97.4	76.0	114.0
160	43.7	34.8	52.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/12/2022

Supervised By :Jagrut Upadhyay 05/12/2022



#42

2,4,6-Tribromophenol

Concen: 75.375 ng

RT: 10.728 min Scan# 1435

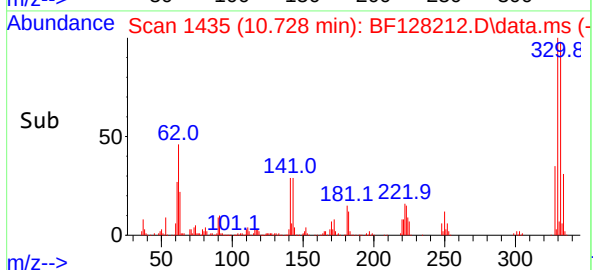
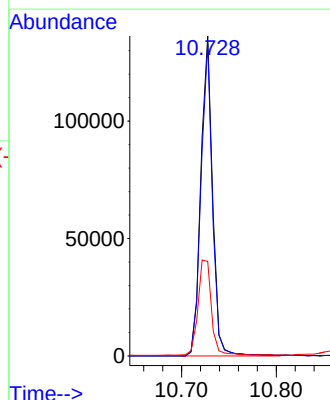
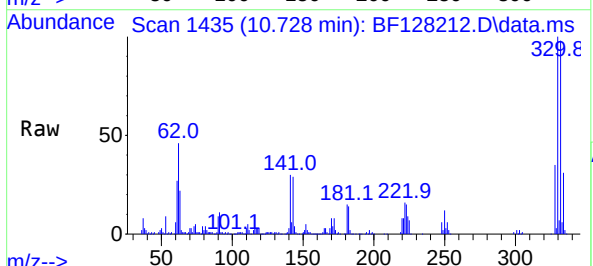
Delta R.T. -0.006 min

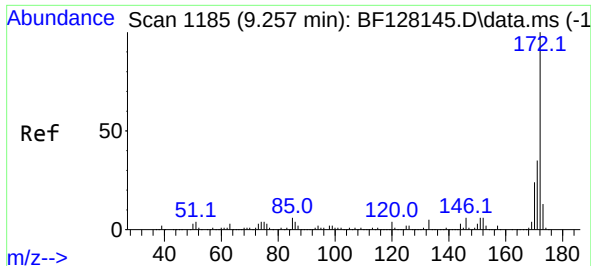
Lab File: BF128212.D

Acq: 11 May 2022 23:39

Tgt Ion:330 Resp: 117492

Ion	Ratio	Lower	Upper
330	100		
332	95.8	79.0	118.4
141	34.1	28.9	43.3





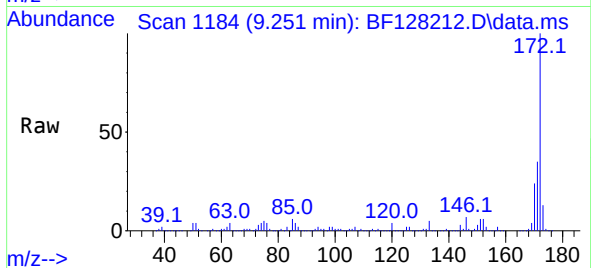
#45
2-Fluorobiphenyl
Concen: 68.510 ng
RT: 9.251 min Scan# 1184
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022



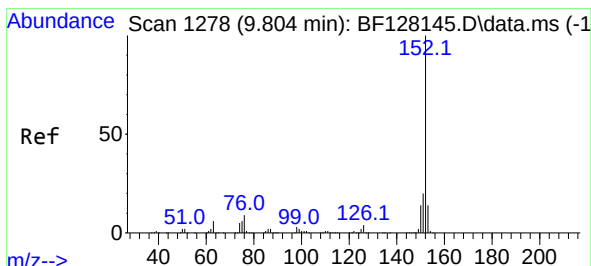
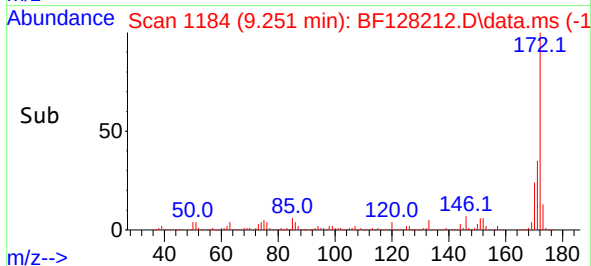
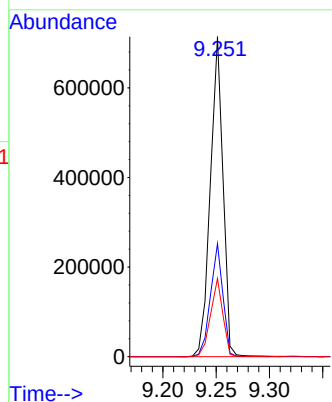
Tgt Ion:172 Resp: 595099
Ion Ratio Lower Upper
172 100
171 35.3 28.6 42.8
170 24.5 19.1 28.7

Manual Integrations

APPROVED

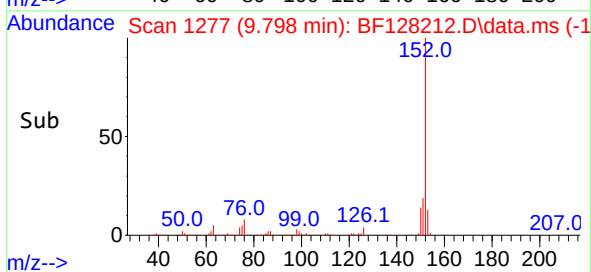
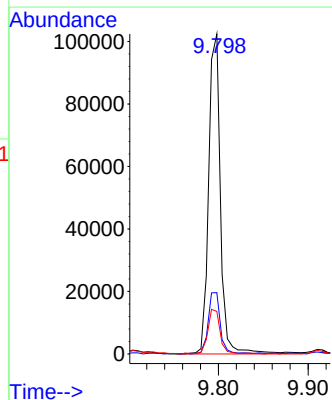
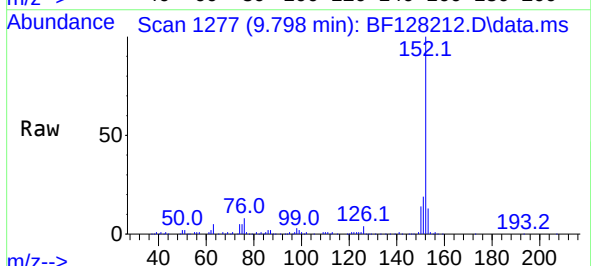
Reviewed By :Christian Giraldo 05/12/2022

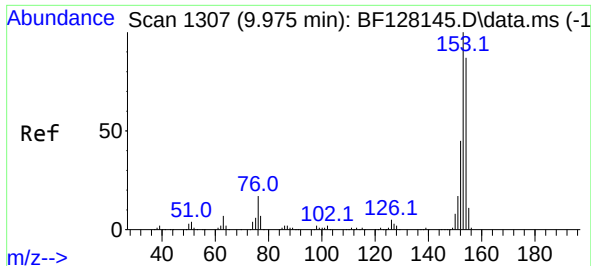
Supervised By :Jagrut Upadhyay 05/12/2022



#49
Acenaphthylene
Concen: 8.402 ng
RT: 9.798 min Scan# 1277
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Tgt Ion:152 Resp: 93192
Ion Ratio Lower Upper
152 100
151 19.1 16.2 24.2
153 13.3 11.2 16.8





#52
Acenaphthene
Concen: 8.966 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

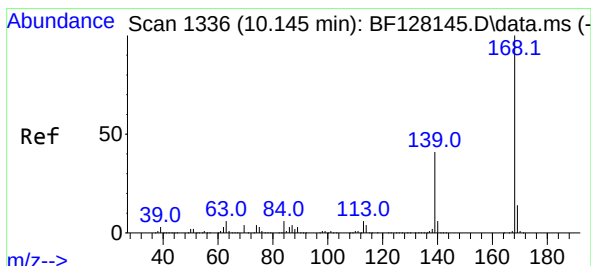
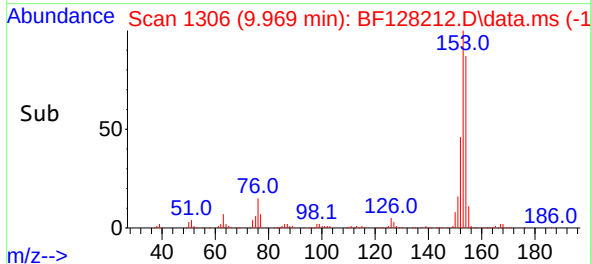
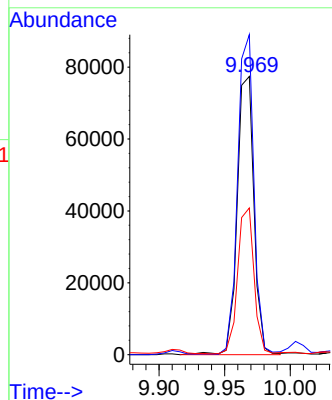
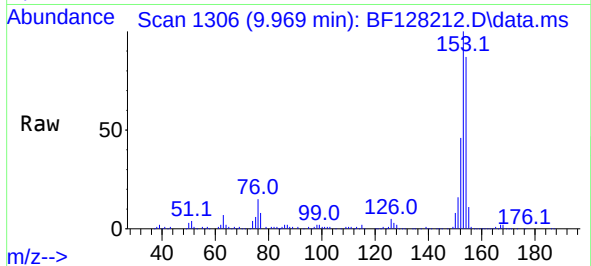
CL-02-051022

Tgt Ion:154 Resp: 68950
Ion Ratio Lower Upper
154 100
153 115.0 90.5 135.7
152 52.8 41.0 61.6

Manual Integrations

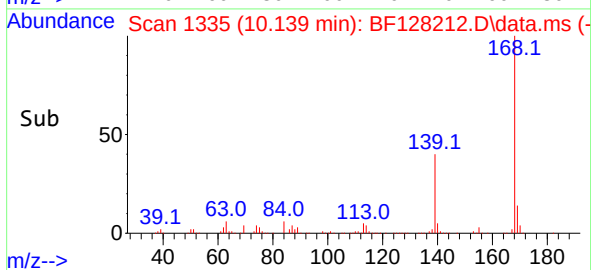
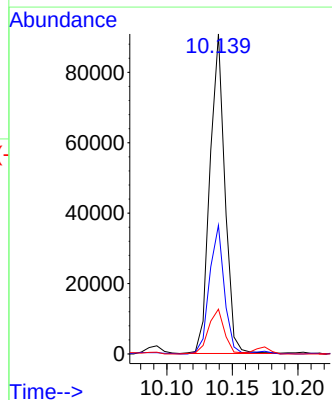
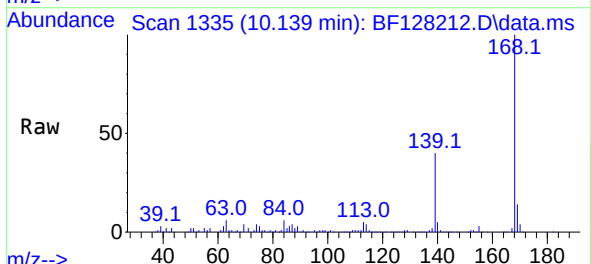
APPROVED

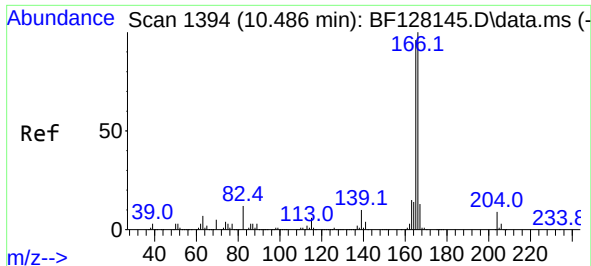
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022



#55
Dibenzofuran
Concen: 6.604 ng
RT: 10.139 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

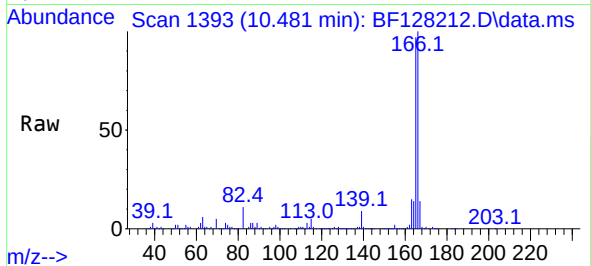
Tgt Ion:168 Resp: 72110
Ion Ratio Lower Upper
168 100
139 40.2 31.7 47.5
169 14.0 10.9 16.3





#58
Fluorene
Concen: 12.670 ng m
RT: 10.481 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

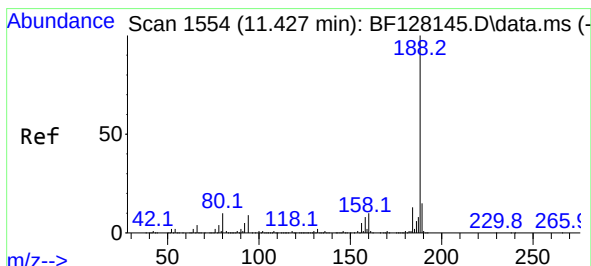
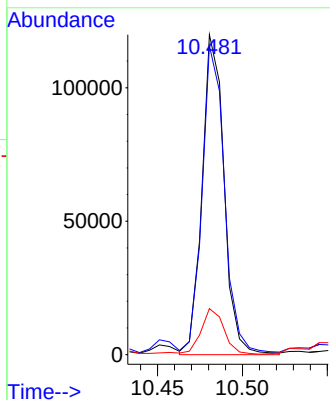
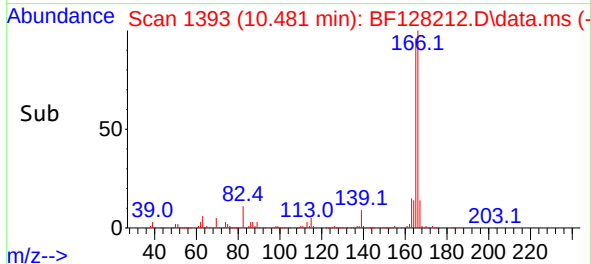
Instrument :
BNA_F
ClientSampleId :
CL-02-051022



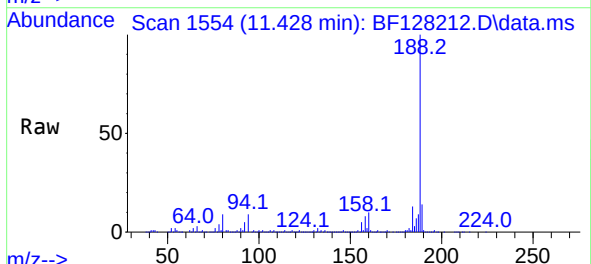
Tgt Ion:166 Resp: 107760
Ion Ratio Lower Upper
166 100
165 96.6 78.6 117.8
167 14.4 10.5 15.7

Manual Integrations
APPROVED

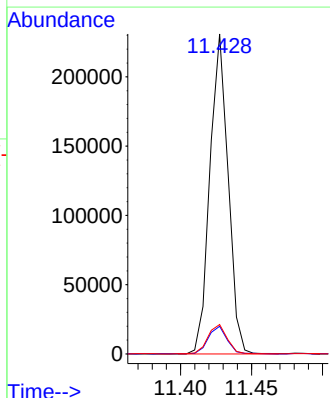
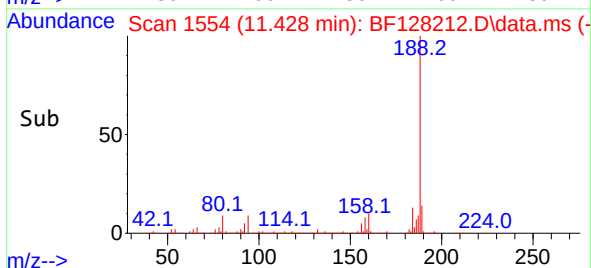
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022

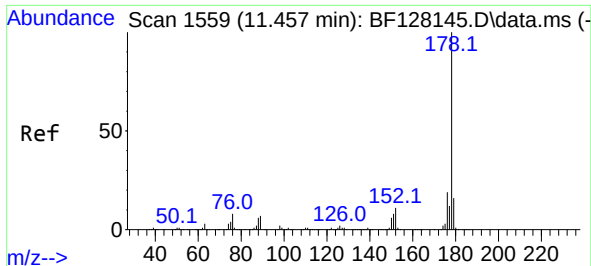


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39



Tgt Ion:188 Resp: 206205
Ion Ratio Lower Upper
188 100
94 8.6 8.0 12.0
80 9.2 8.9 13.3





#71
Phenanthrene
Concen: 77.914 ng
RT: 11.457 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

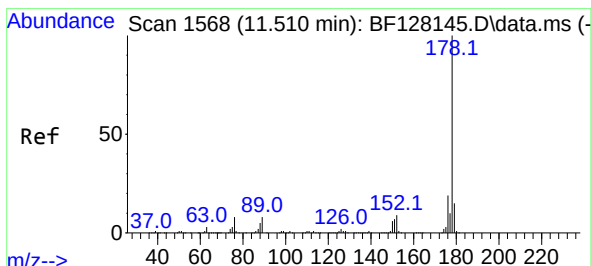
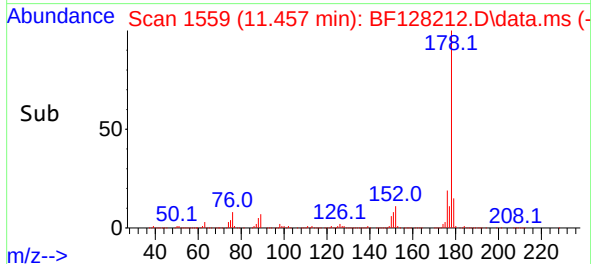
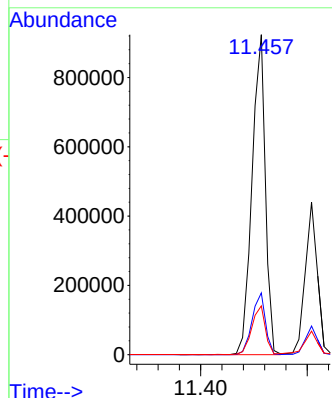
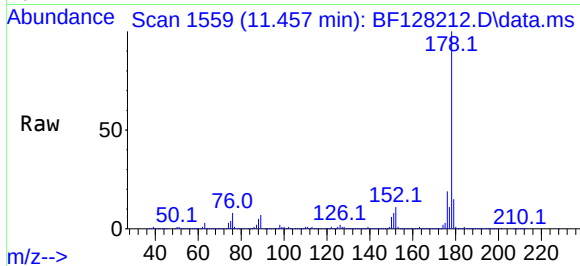
CL-02-051022

Tgt Ion:178 Resp: 800004
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.3 12.6 19.0

Manual Integrations

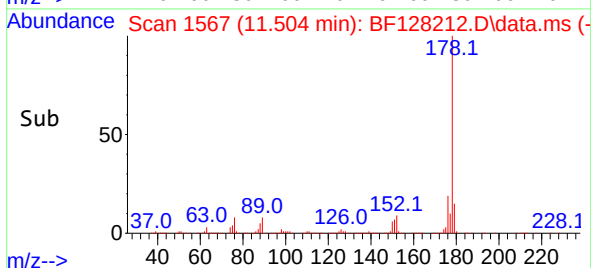
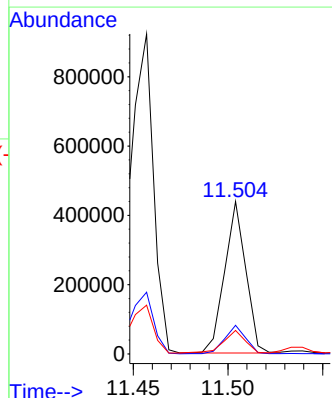
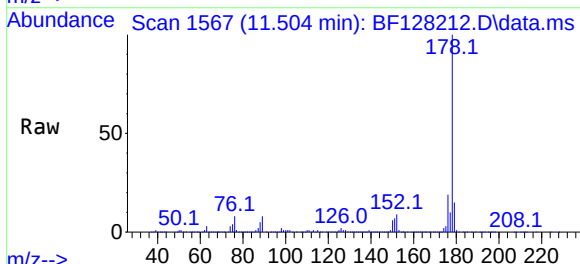
APPROVED

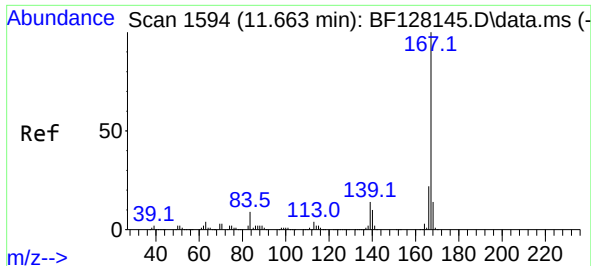
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022



#72
Anthracene
Concen: 33.179 ng
RT: 11.504 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Tgt Ion:178 Resp: 340132
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.4 18.6





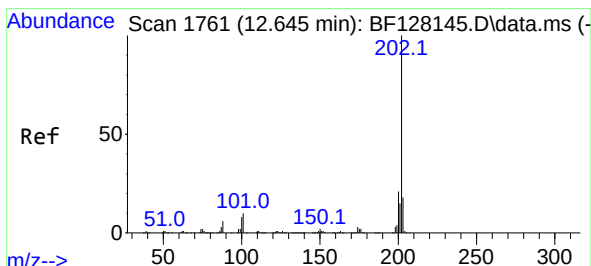
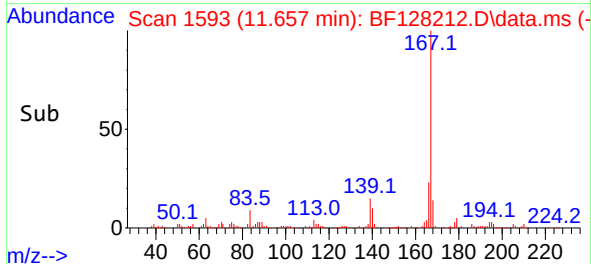
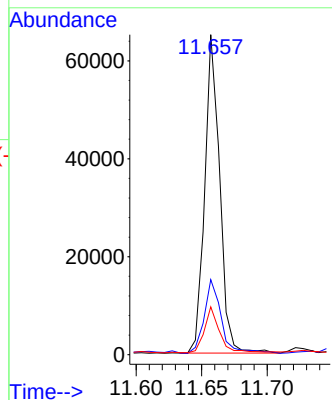
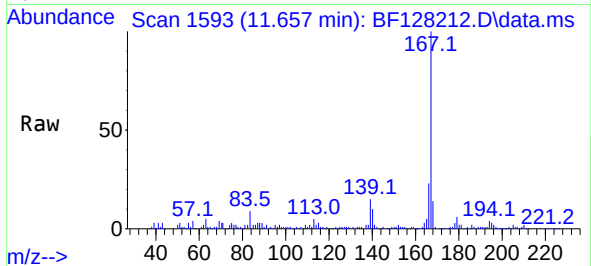
#73
 Carbazole
 Concen: 5.326 ng
 RT: 11.657 min Scan# 1163
 Delta R.T. -0.006 min
 Lab File: BF128212.D
 Acq: 11 May 2022 23:39

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-051022

Tgt Ion:	167	Resp:	51918
Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.6	26.4
139	14.9	10.7	16.1

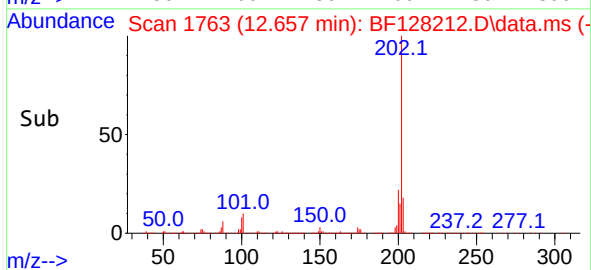
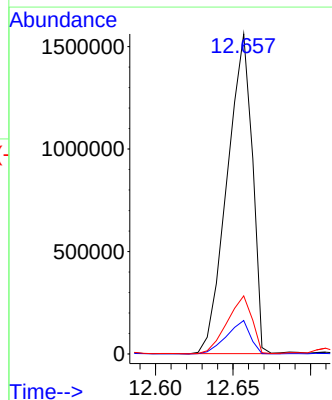
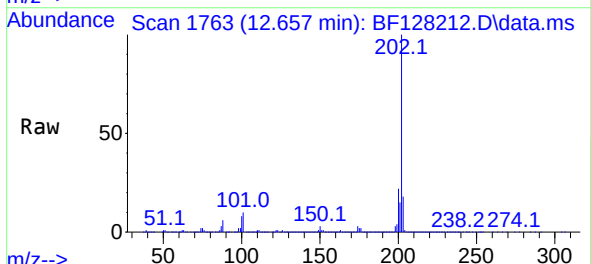
Manual Integrations
 APPROVED

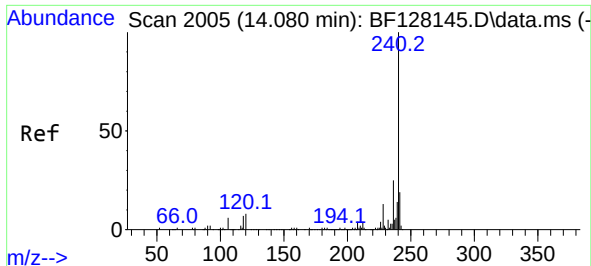
Reviewed By :Christian Giraldo 05/12/2022
 Supervised By :Jagrut Upadhyay 05/12/2022



#75
 Fluoranthene
 Concen: 158.186 ng
 RT: 12.657 min Scan# 1763
 Delta R.T. 0.012 min
 Lab File: BF128212.D
 Acq: 11 May 2022 23:39

Tgt Ion:	202	Resp:	1760894
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.6
203	18.1	0.0	38.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.086 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

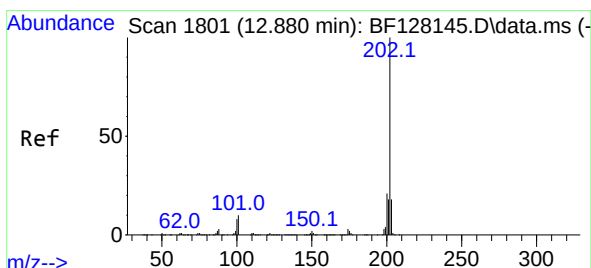
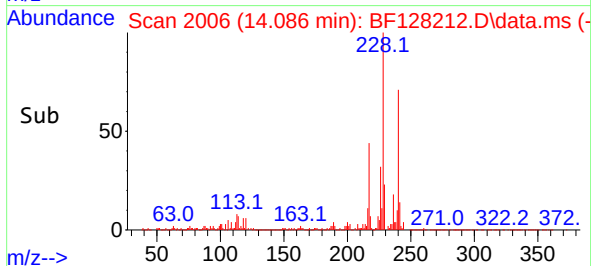
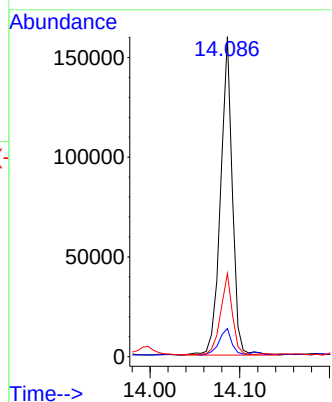
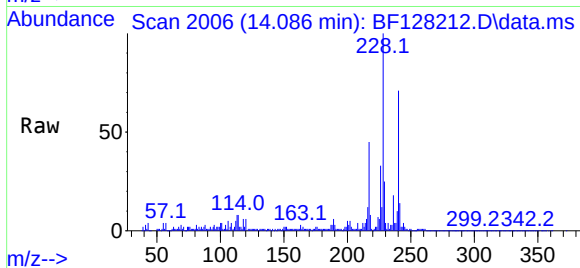
CL-02-051022

Tgt Ion:240 Resp: 14575
Ion Ratio Lower Upper
240 100
120 8.8 7.0 10.6
236 26.0 20.3 30.5

Manual Integrations

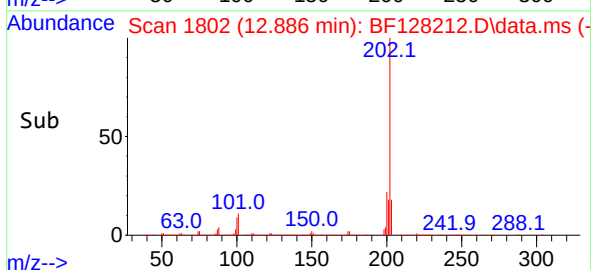
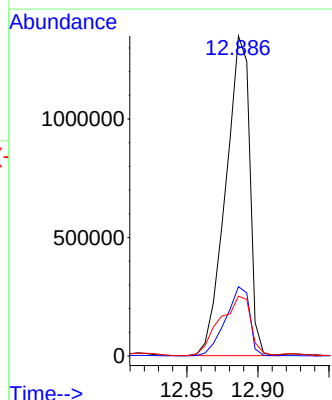
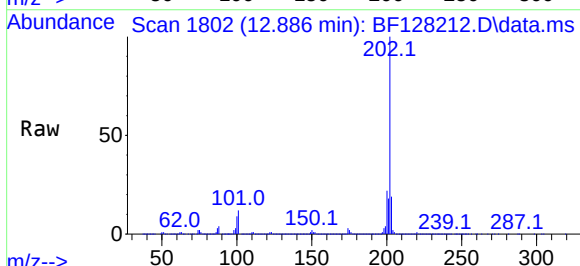
APPROVED

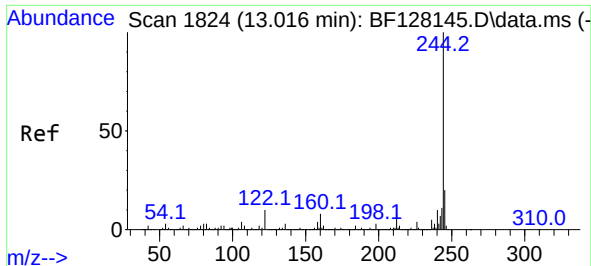
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022



#78
Pyrene
Concen: 149.684 ng
RT: 12.886 min Scan# 1802
Delta R.T. 0.006 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Tgt Ion:202 Resp: 1581940
Ion Ratio Lower Upper
202 100
200 21.7 17.4 26.2
203 18.7 14.0 21.0





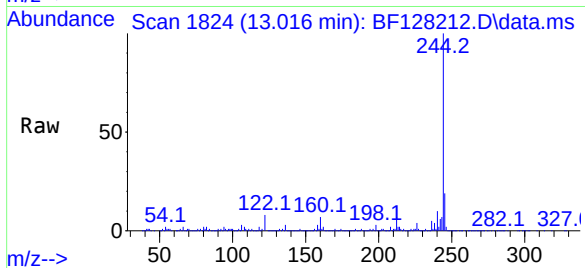
#79
 Terphenyl-d14
 Concen: 64.703 ng
 RT: 13.016 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF128212.D
 Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022

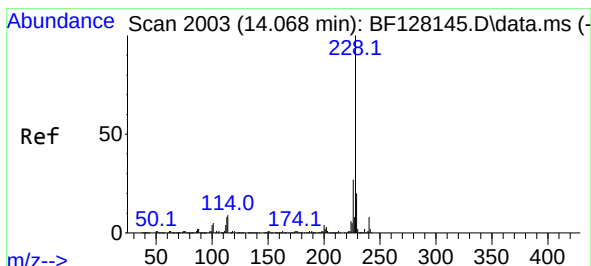
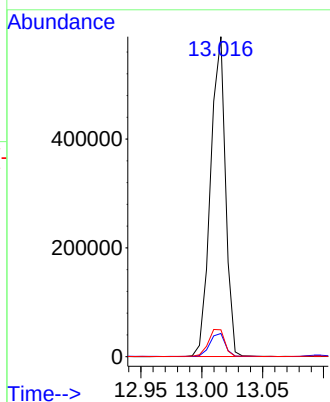
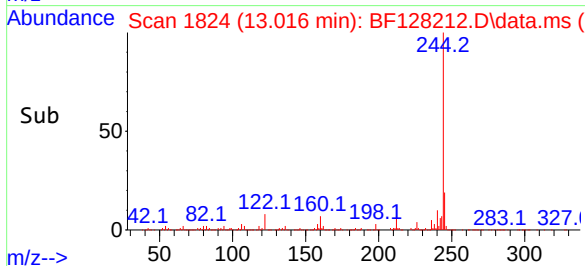


Tgt Ion:244 Resp: 502590
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.2 9.4
 122 8.4 8.6 12.8

Manual Integrations

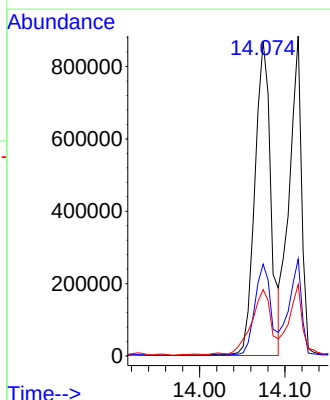
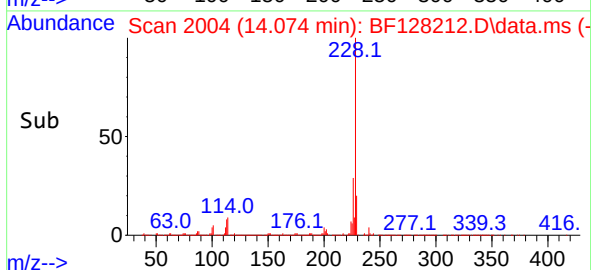
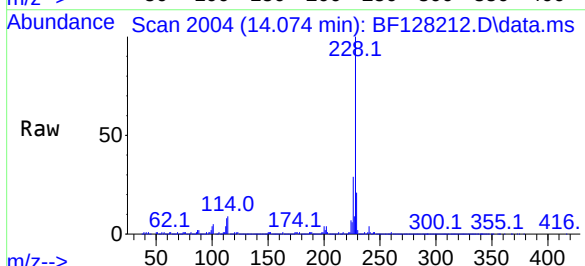
APPROVED

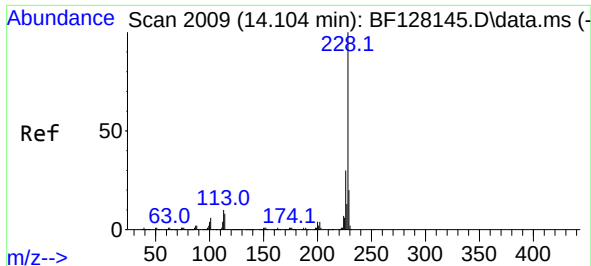
Reviewed By :Christian Giraldo 05/12/2022
 Supervised By :Jagrut Upadhyay 05/12/2022



#81
 Benzo(a)anthracene
 Concen: 122.104 ng
 RT: 14.074 min Scan# 2004
 Delta R.T. 0.006 min
 Lab File: BF128212.D
 Acq: 11 May 2022 23:39

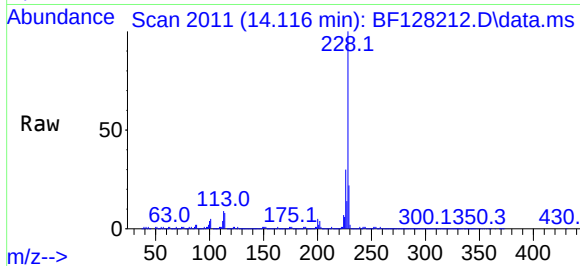
Tgt Ion:228 Resp: 1136767
 Ion Ratio Lower Upper
 228 100
 226 29.2 21.7 32.5
 229 21.1 15.4 23.2





#83
Chrysene
Concen: 99.583 ng
RT: 14.116 min Scan# 20
Delta R.T. 0.012 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

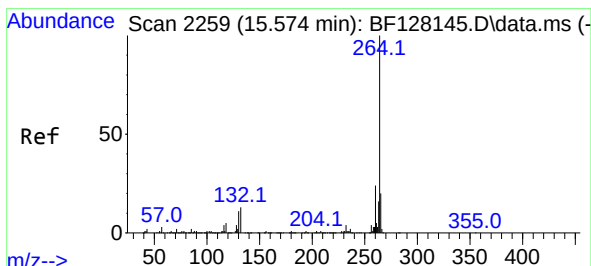
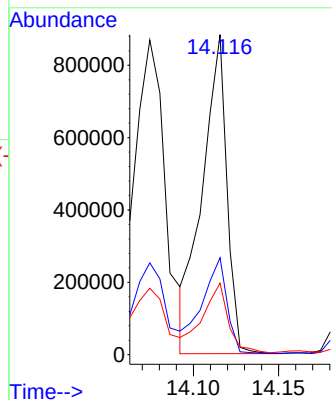
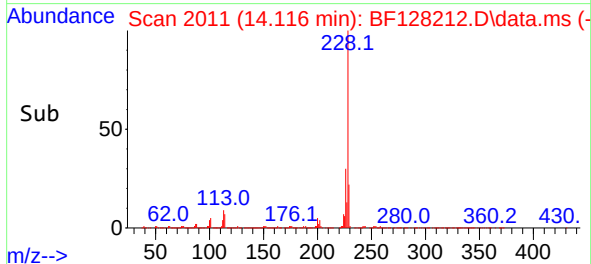
Instrument :
BNA_F
ClientSampleId :
CL-02-051022



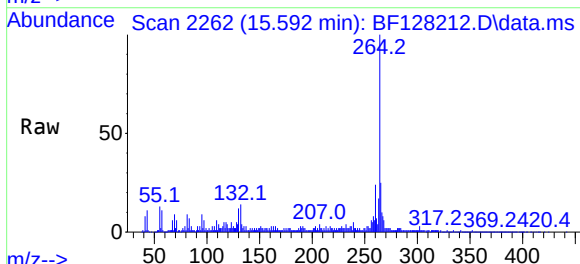
Tgt Ion:228 Resp: 884599
Ion Ratio Lower Upper
228 100
226 30.3 24.4 36.6
229 22.4 15.8 23.8

Manual Integrations
APPROVED

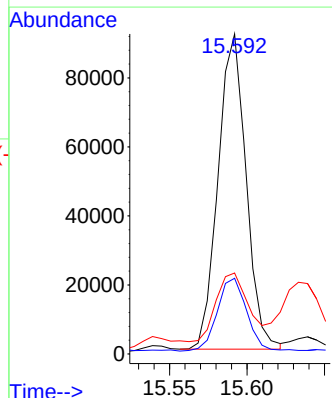
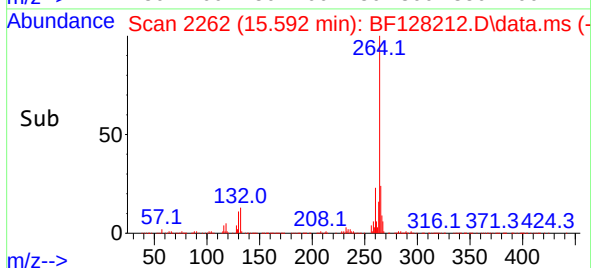
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022

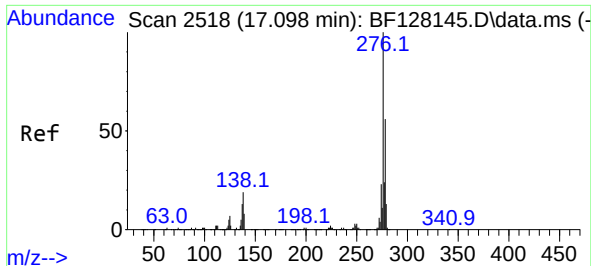


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2262
Delta R.T. 0.018 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39



Tgt Ion:264 Resp: 114827
Ion Ratio Lower Upper
264 100
260 23.6 20.1 30.1
265 25.3 17.5 26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 71.119 ng
RT: 17.133 min Scan# 21
Delta R.T. 0.035 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

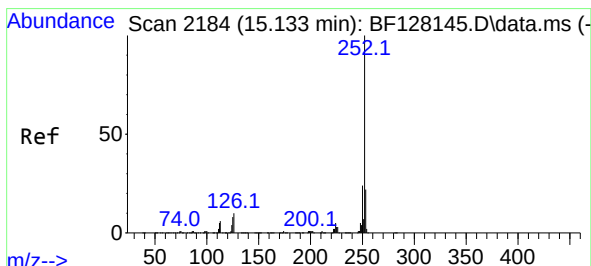
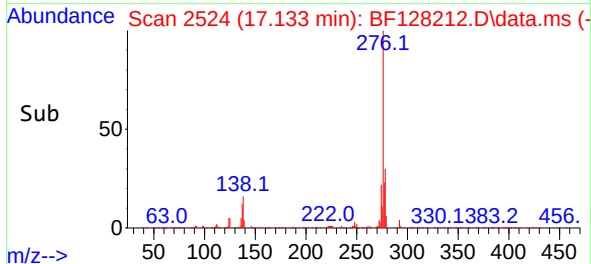
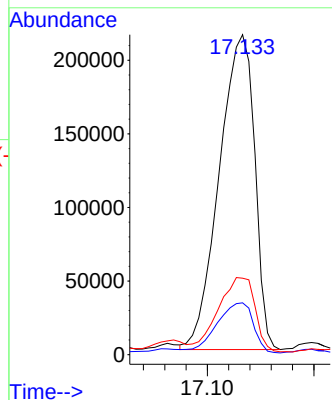
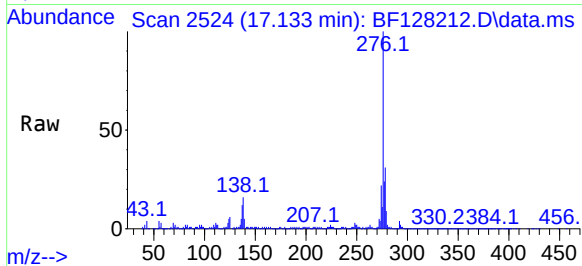
CL-02-051022

Tgt Ion:276 Resp: 494000
Ion Ratio Lower Upper
276 100
138 16.5 19.0 28.4
277 24.8 20.1 30.1

Manual Integrations

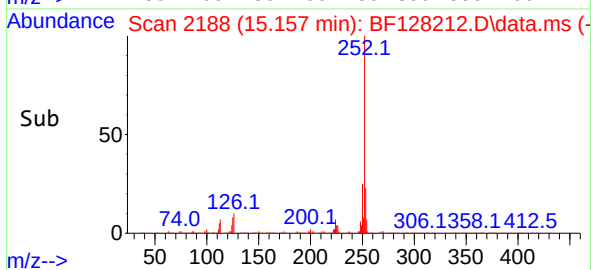
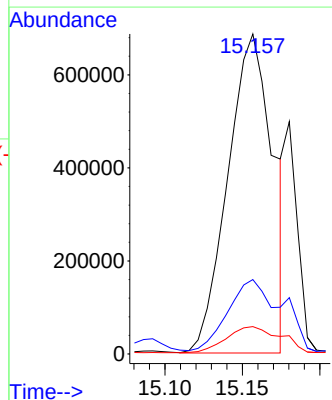
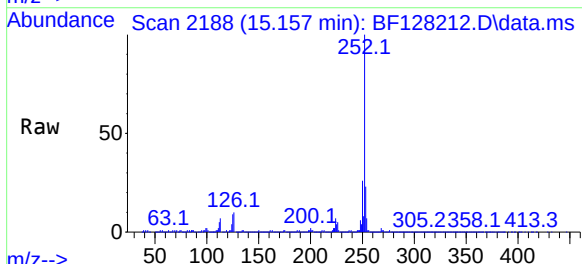
APPROVED

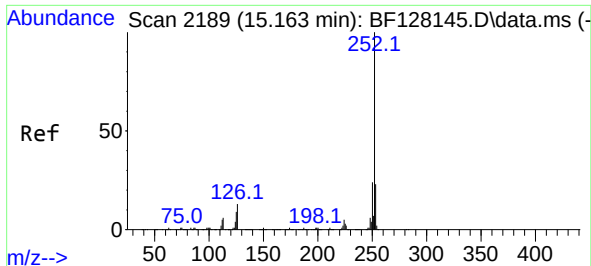
Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022



#88
Benzo(b)fluoranthene
Concen: 194.037 ng m
RT: 15.157 min Scan# 2188
Delta R.T. 0.024 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Tgt Ion:252 Resp: 1381167
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.2
125 8.5 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 39.383 ng m

RT: 15.180 min Scan# 2189

Delta R.T. 0.018 min

Lab File: BF128212.D

Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022

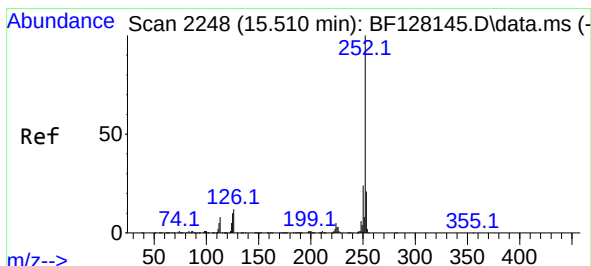
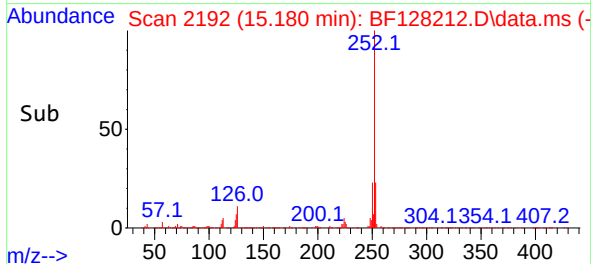
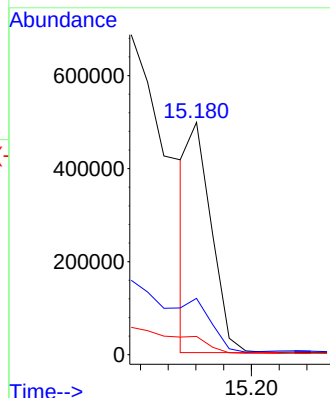
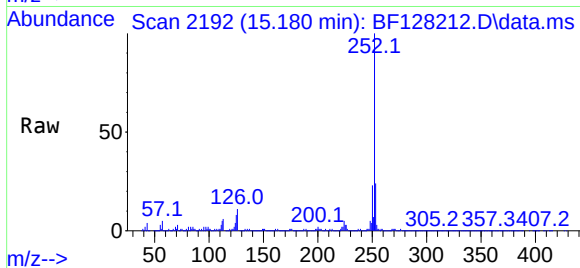
Tgt Ion:252 Resp: 276724

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.0	25.4
125	7.8	6.8	10.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/12/2022
Supervised By :Jagrut Upadhyay 05/12/2022



#90

Benzo(a)pyrene

Concen: 144.254 ng m

RT: 15.539 min Scan# 2253

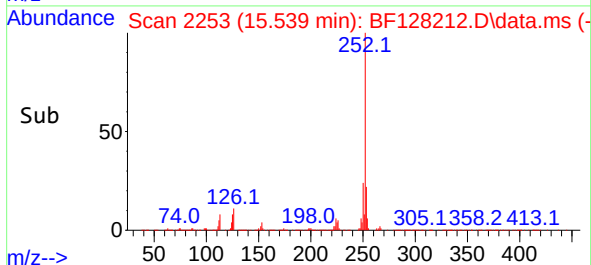
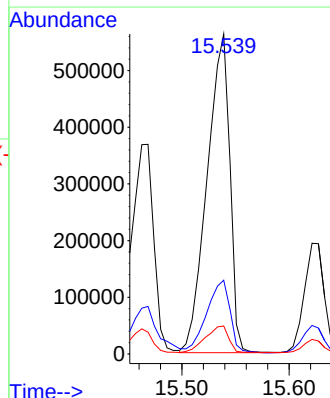
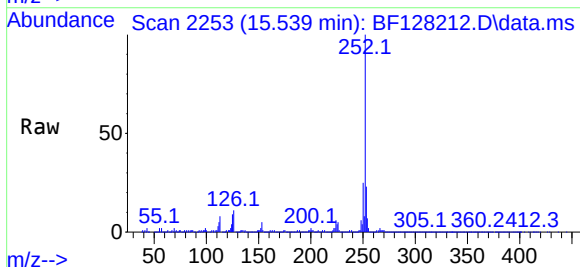
Delta R.T. 0.029 min

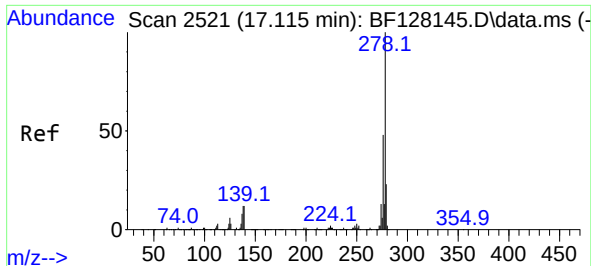
Lab File: BF128212.D

Acq: 11 May 2022 23:39

Tgt Ion:252 Resp: 828969

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	8.7	9.2	13.8





#91
Dibenzo(a,h)anthracene
Concen: 24.530 ng m
RT: 17.133 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Instrument :

BNA_F

ClientSampleId :

CL-02-051022

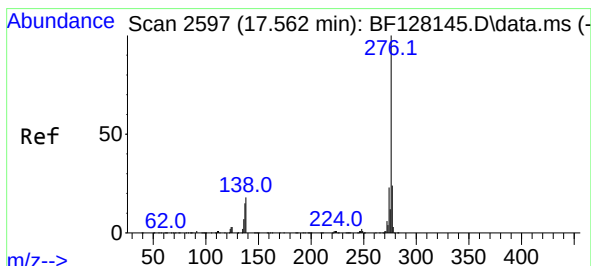
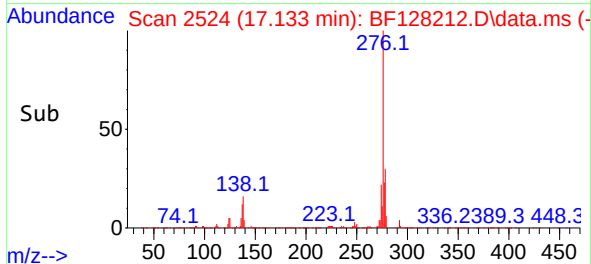
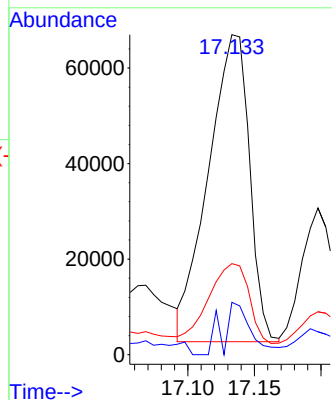
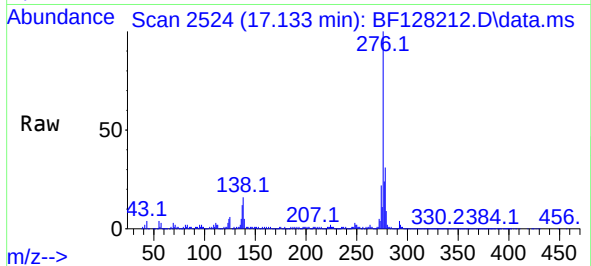
Tgt Ion:278 Resp: 137945
Ion Ratio Lower Upper
278 100
139 16.4 12.6 19.0
279 28.5 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/12/2022

Supervised By :Jagrut Upadhyay 05/12/2022



#92
Benzo(g,h,i)perylene
Concen: 76.625 ng
RT: 17.598 min Scan# 2603
Delta R.T. 0.035 min
Lab File: BF128212.D
Acq: 11 May 2022 23:39

Tgt Ion:276 Resp: 436293
Ion Ratio Lower Upper
276 100
277 24.0 18.8 28.2
138 17.1 16.2 24.2

