

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022123\
 Data File : BF132497.D
 Acq On : 21 Feb 2023 15:57
 Operator : CG\JU
 Sample : 01552-01DL2 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-01-0-2.0DL2

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/22/2023
 Supervised By : Jagrut Upadhyay 02/22/2023

Quant Time: Feb 22 00:51:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 21 16:43:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	223535	20.000	ng	0.00
21) Naphthalene-d8	8.307	136	808673	20.000	ng	0.00
39) Acenaphthene-d10	10.072	164	406211	20.000	ng	0.00
64) Phenanthrene-d10	11.571	188	644103	20.000	ng	0.00
76) Chrysene-d12	14.230	240	361532	20.000	ng	0.00
86) Perylene-d12	15.795	264	364074	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.654	112	162366	11.639	ng	0.01
7) Phenol-d6	6.654	99	209335	11.492	ng	0.00
23) Nitrobenzene-d5	7.578	82	127231	7.560	ng	-0.02
42) 2,4,6-Tribromophenol	10.866	330	36059	8.897	ng	0.00
45) 2-Fluorobiphenyl	9.377	172	229906	8.740	ng	-0.01
79) Terphenyl-d14	13.154	244	179669	9.051	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.331	128	321862	7.669	ng	98
49) Acenaphthylene	9.930	152	203054	5.179	ng	99
52) Acenaphthene	10.101	154	72231	2.960	ng	99
55) Dibenzofuran	10.272	168	90424	2.498	ng	98
58) Fluorene	10.619	166	168447	6.154	ng	98
71) Phenanthrene	11.595	178	1388595	41.858	ng	100
72) Anthracene	11.642	178	309651	9.080	ng	100
73) Carbazole	11.801	167	91983	2.996	ng	96
75) Fluoranthene	12.789	202	969389	26.203	ng	99
78) Pyrene	13.024	202	1001270	32.602	ng	100
81) Benzo(a)anthracene	14.218	228	346161m	13.073	ng	
83) Chrysene	14.254	228	296159	11.706	ng	97
87) Indeno(1,2,3-cd)pyrene	17.395	276	88023	3.782	ng	# 74
88) Benzo(b)fluoranthene	15.324	252	398414m	16.641	ng	
89) Benzo(k)fluoranthene	15.348	252	117795m	4.917	ng	
90) Benzo(a)pyrene	15.724	252	314206	14.122	ng	99
92) Benzo(g,h,i)perylene	17.889	276	124465	6.323	ng	99

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

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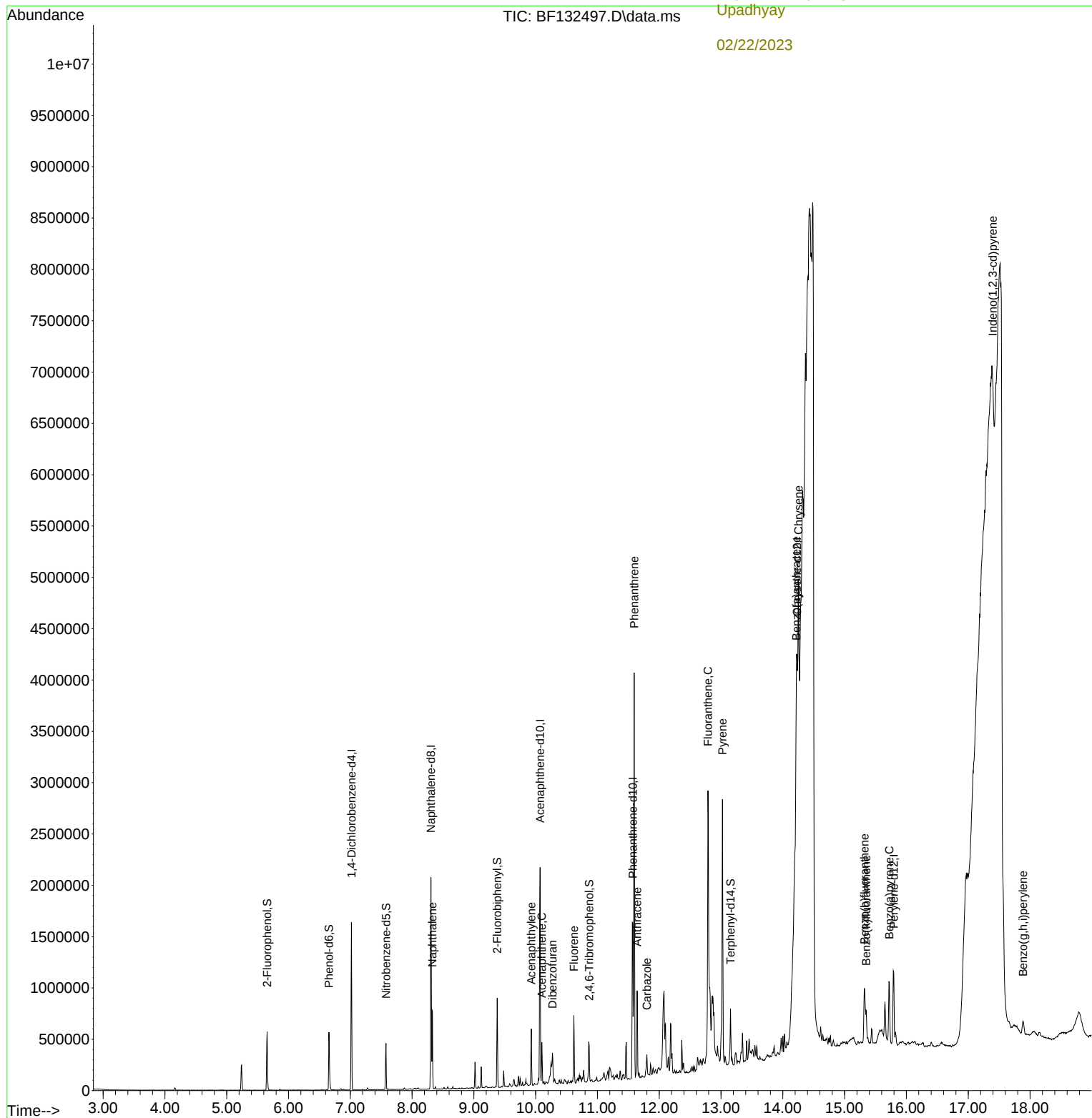
Quant Time: Feb 22 00:51:35 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 21 16:43:07 2023
Response via : Initial Calibration

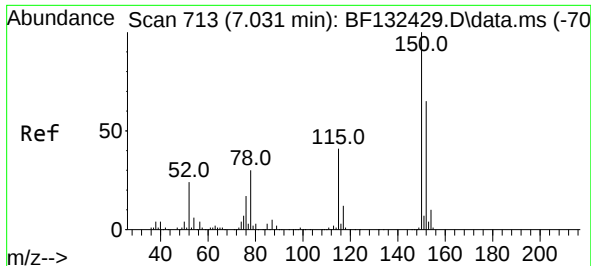
Manual Integrations
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Supervised By :Jagrut Upadhyay 02/22/2023

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Upadhyay

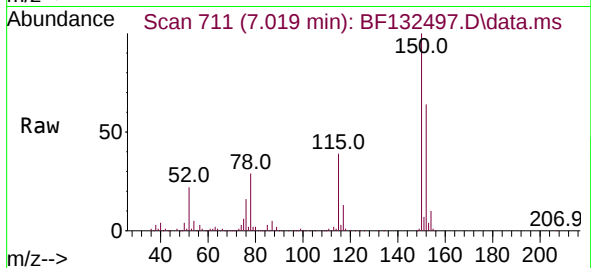
02/22/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.019 min Scan# 713
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



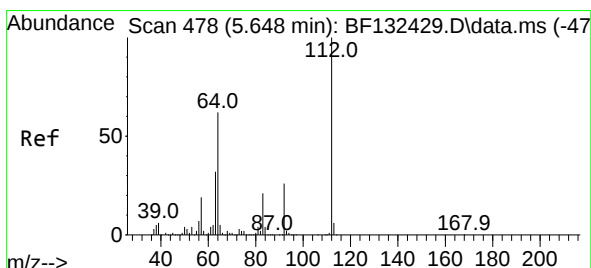
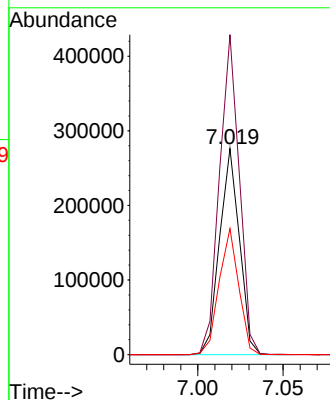
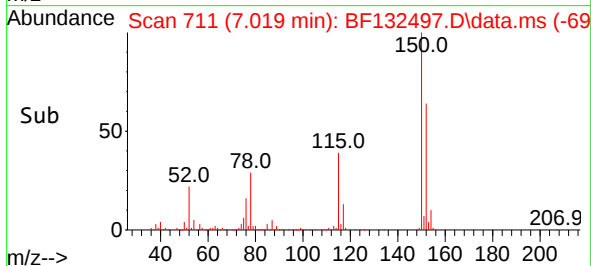
Tgt Ion:152 Resp: 223535
Ion Ratio Lower Upper
152 100
150 155.2 123.8 185.8
115 61.1 50.4 75.6

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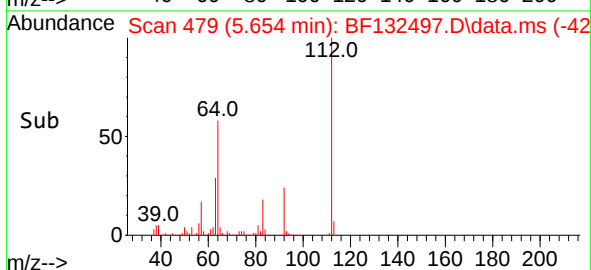
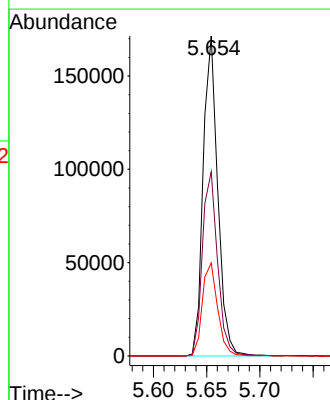
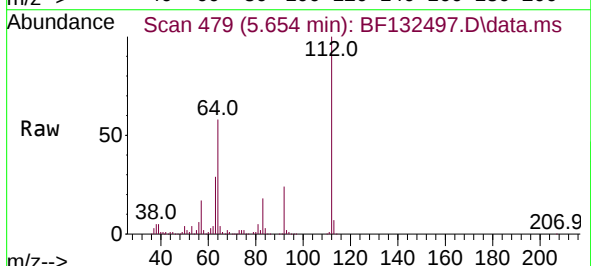
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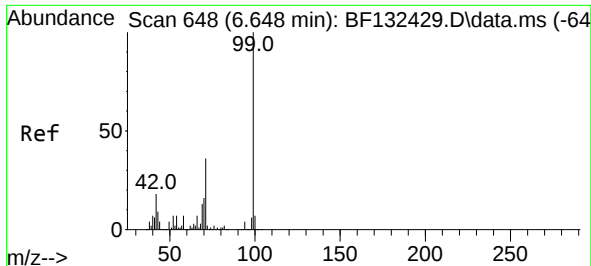
02/22/2023



#5
2-Fluorophenol
Concen: 11.639 ng
RT: 5.654 min Scan# 479
Delta R.T. 0.012 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

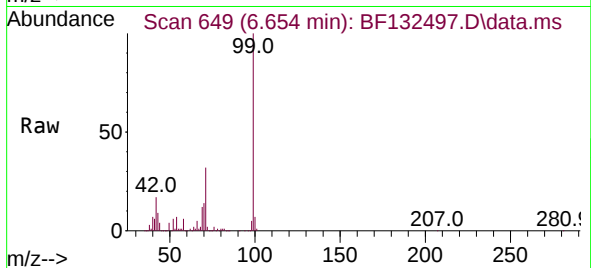
Tgt Ion:112 Resp: 162366
Ion Ratio Lower Upper
112 100
64 57.5 49.7 74.5
63 29.0 25.8 38.8





#7
Phenol-d6
Concen: 11.492 ng
RT: 6.654 min Scan# 648
Delta R.T. 0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



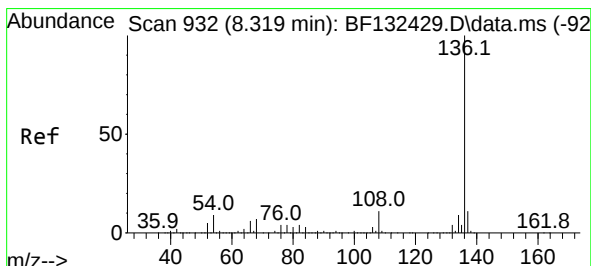
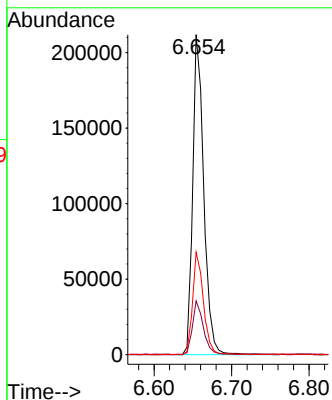
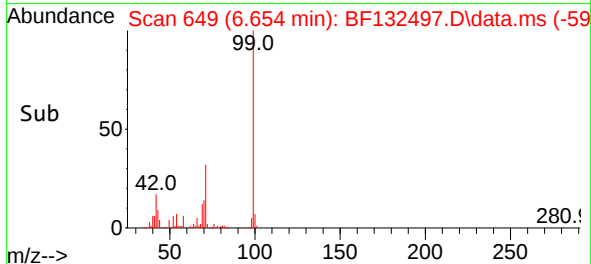
Tgt Ion: 99 Resp: 209335
Ion Ratio Lower Upper
99 100
42 16.8 14.6 21.8
71 32.0 28.7 43.1

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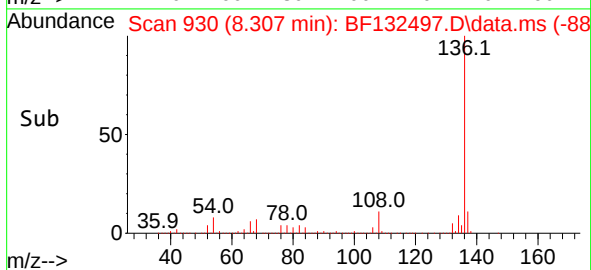
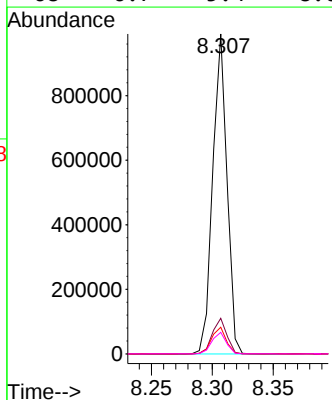
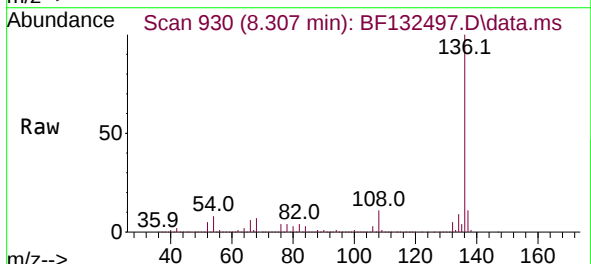
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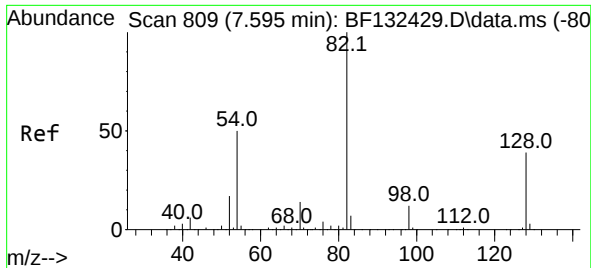
02/22/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.307 min Scan# 930
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Tgt Ion:136 Resp: 808673
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 8.3 6.9 10.3
68 6.7 5.4 8.0





#23

Nitrobenzene-d5

Concen: 7.560 ng

RT: 7.578 min Scan# 809

Delta R.T. -0.018 min

Lab File: BF132497.D

Acq: 21 Feb 2023 15:57

Instrument :

BNA_F

ClientSampleId :

SB-01-0-2.0DL2

Tgt Ion: 82 Resp: 127231

Ion	Ratio	Lower	Upper
82	100		
128	43.5	30.8	46.2
54	46.9	40.2	60.4

Manual Integrations

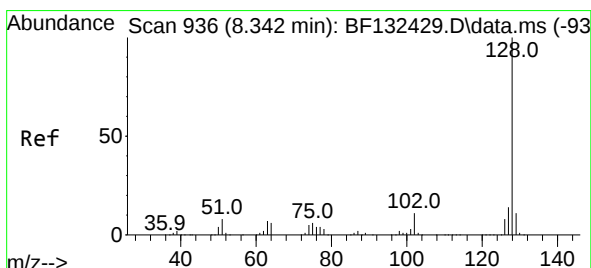
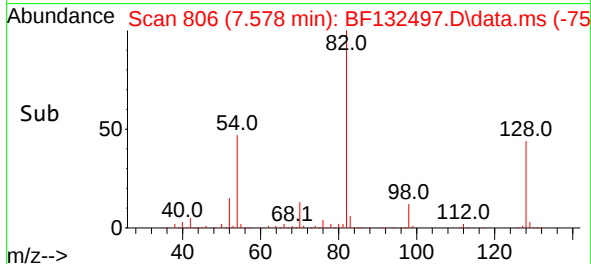
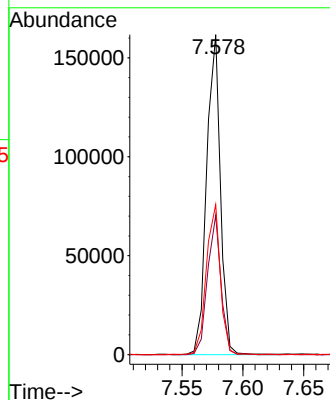
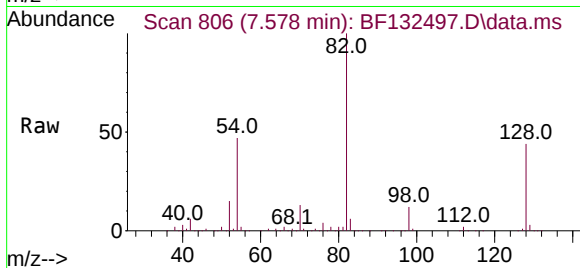
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Upadhyay

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#31

Naphthalene

Concen: 7.669 ng

RT: 8.331 min Scan# 934

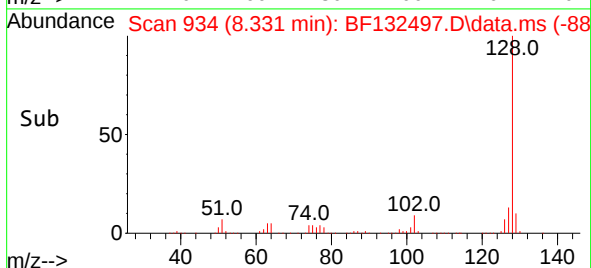
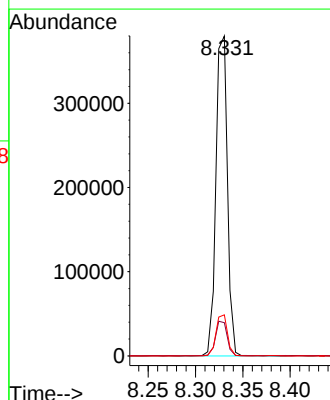
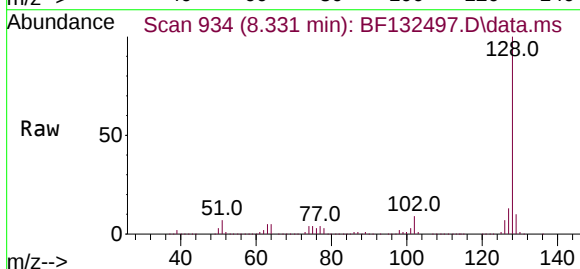
Delta R.T. -0.006 min

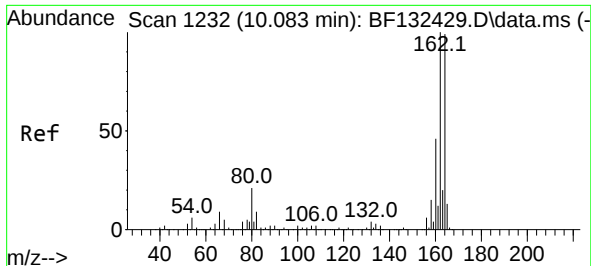
Lab File: BF132497.D

Acq: 21 Feb 2023 15:57

Tgt Ion:128 Resp: 321862

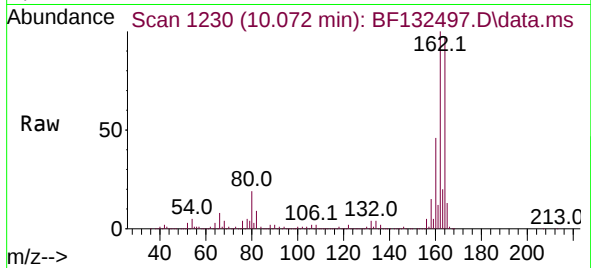
Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.0	13.4
127	12.8	11.0	16.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.072 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



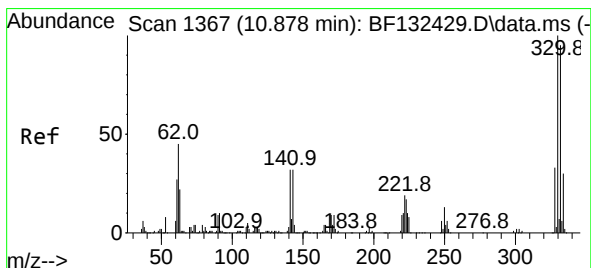
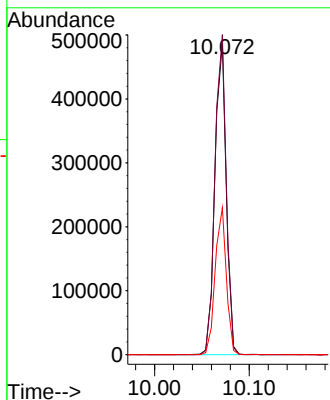
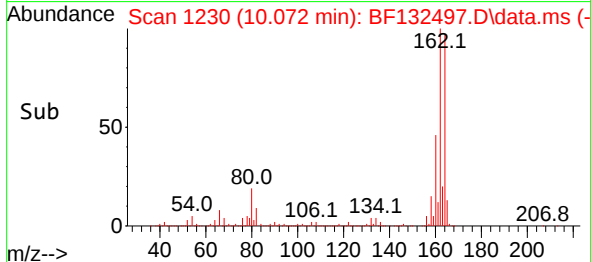
Tgt Ion:164 Resp: 406211
Ion Ratio Lower Upper
164 100
162 102.9 80.8 121.2
160 47.3 37.2 55.8

Manual Integrations
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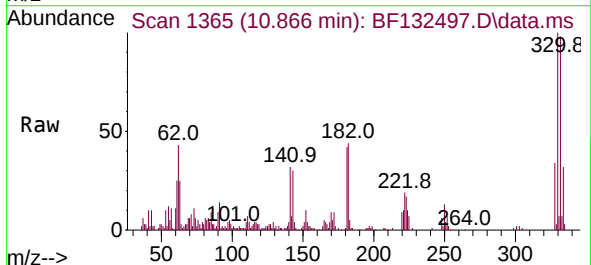
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Upadhyay

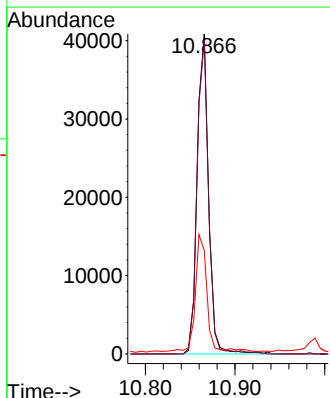
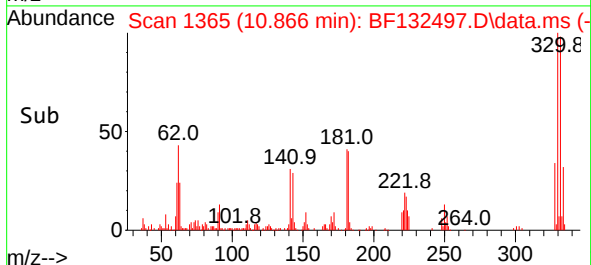
02/22/2023

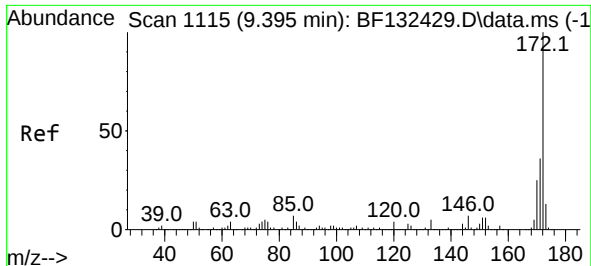


#42
2,4,6-Tribromophenol
Concen: 8.897 ng
RT: 10.866 min Scan# 1365
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57



Tgt Ion:330 Resp: 36059
Ion Ratio Lower Upper
330 100
332 98.6 76.3 114.5
141 37.6 30.3 45.5





#45

2-Fluorobiphenyl

Concen: 8.740 ng

RT: 9.377 min Scan# 1115

Delta R.T. -0.012 min

Lab File: BF132497.D

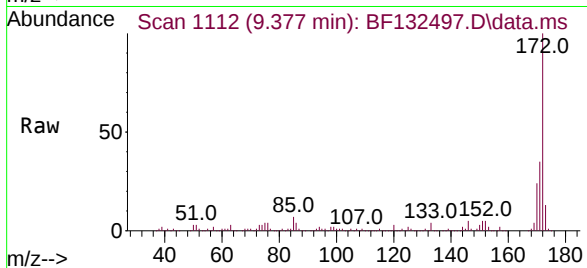
Acq: 21 Feb 2023 15:57

Instrument :

BNA_F

ClientSampleId :

SB-01-0-2.0DL2



Tgt Ion:	172	Resp:	229906
Ion Ratio	Lower	Upper	
172	100		
171	35.4	28.6	42.8
170	23.8	19.9	29.9

Manual Integrations

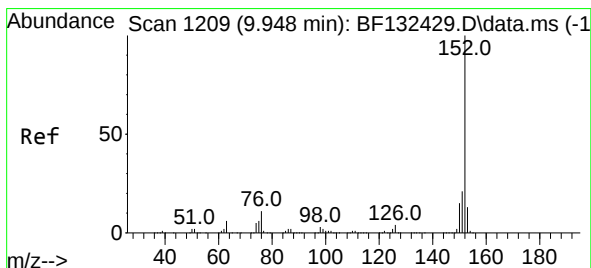
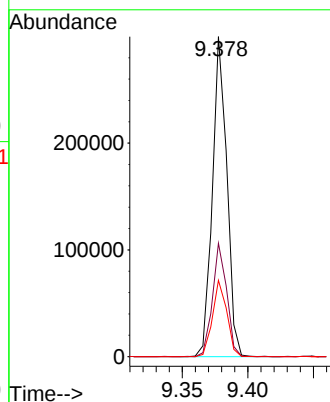
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Supervised By :Jagrut Upadhyay

02/22/2023



#49

Acenaphthylene

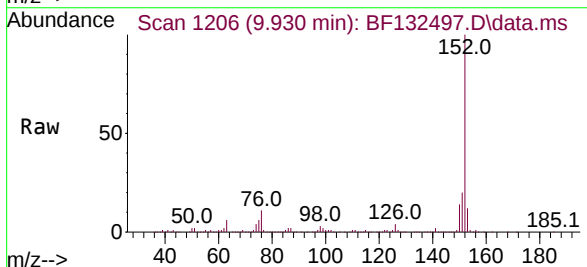
Concen: 5.179 ng

RT: 9.930 min Scan# 1206

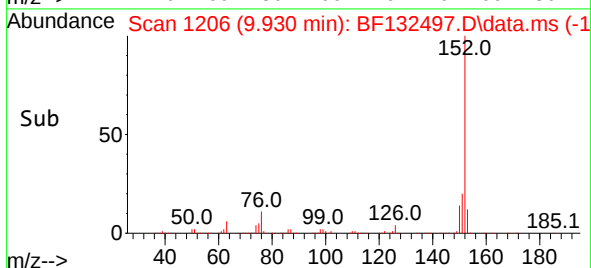
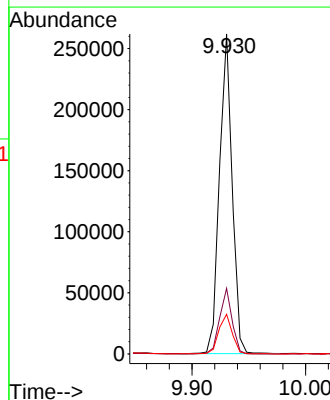
Delta R.T. -0.006 min

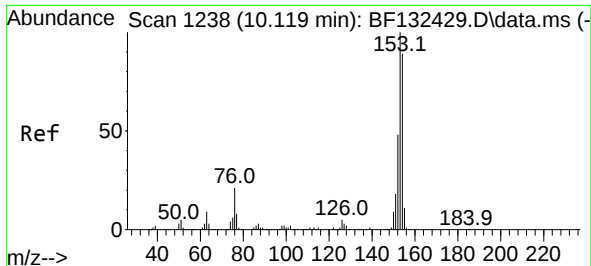
Lab File: BF132497.D

Acq: 21 Feb 2023 15:57



Tgt Ion:	152	Resp:	203054
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.4	24.6
153	12.4	10.7	16.1





#52
Acenaphthene
Concen: 2.960 ng
RT: 10.101 min Scan# 1235
Delta R.T. -0.012 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2

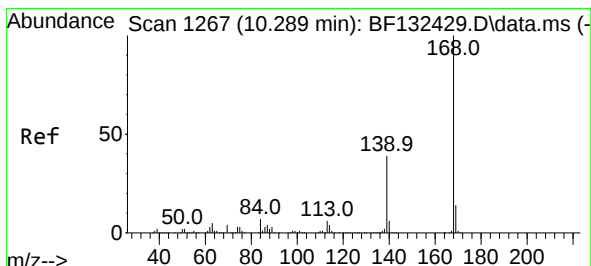
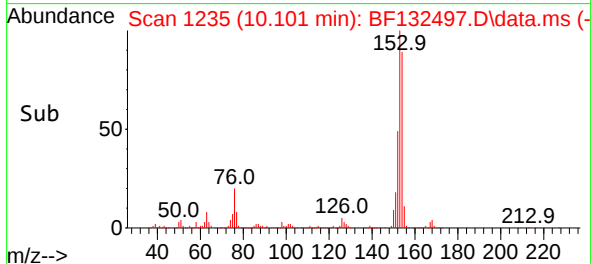
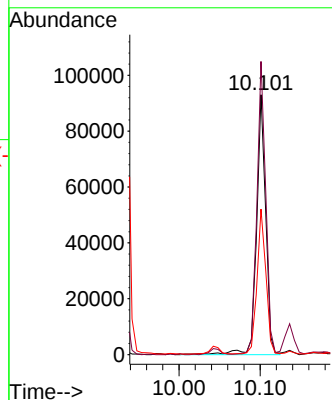
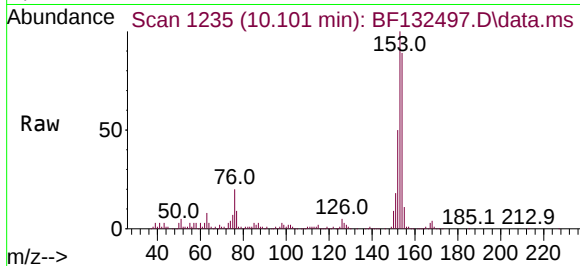
Tgt Ion:154 Resp: 72231
Ion Ratio Lower Upper
154 100
153 112.8 89.7 134.5
152 56.0 43.4 65.0

Manual Integrations
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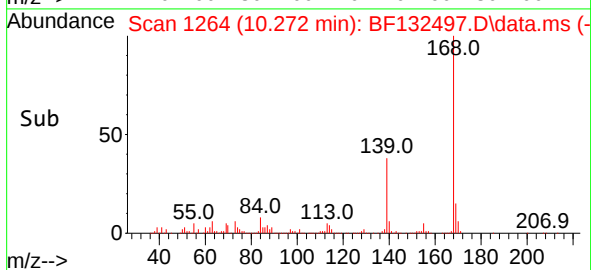
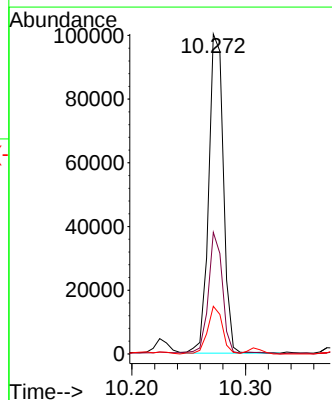
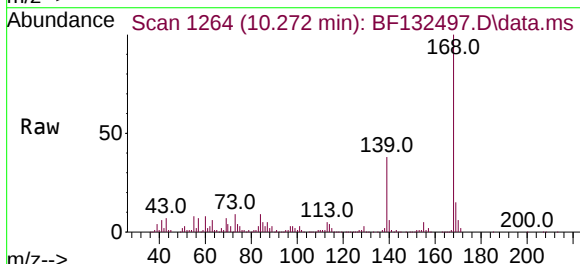
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Supervised By :Jagrut
Upadhyay

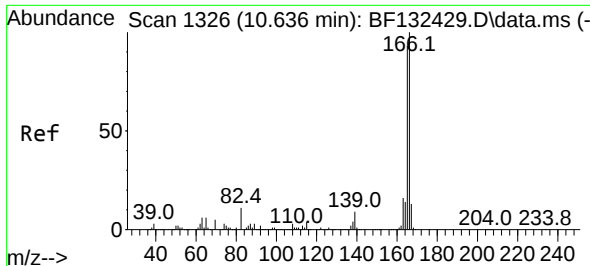
02/22/2023



#55
Dibenzofuran
Concen: 2.498 ng
RT: 10.272 min Scan# 1264
Delta R.T. -0.012 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

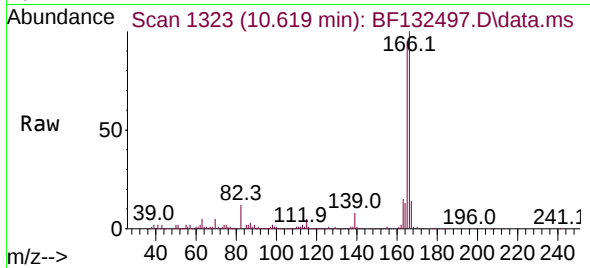
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Ion Ratio Lower Upper
168 100
139 38.0 31.0 46.4
169 14.9 11.0 16.4





#58
Fluorene
Concen: 6.154 ng
RT: 10.619 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



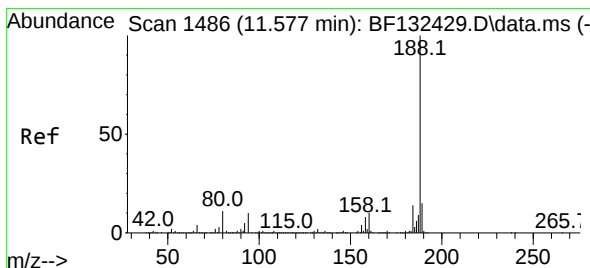
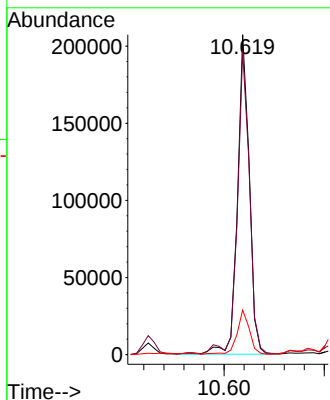
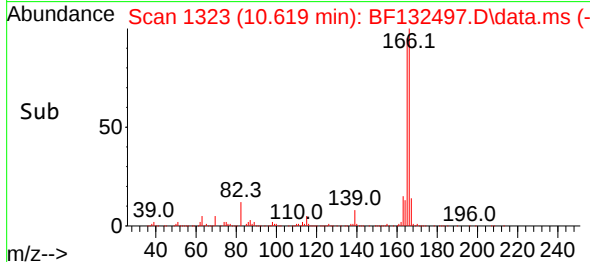
Tgt Ion:166 Resp: 16844
Ion Ratio Lower Upper
166 100
165 94.8 74.6 111.8
167 13.9 10.8 16.2

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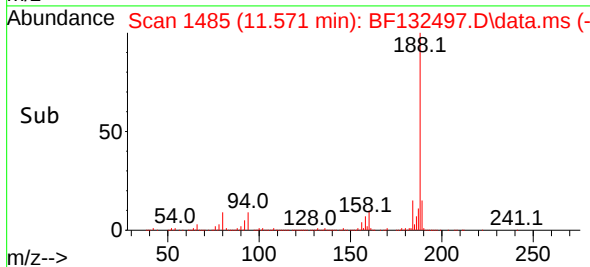
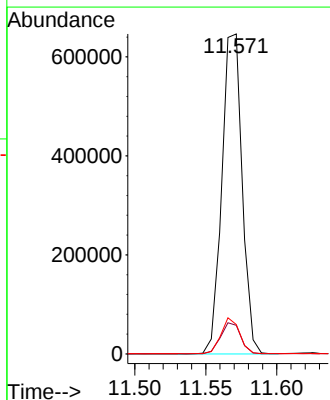
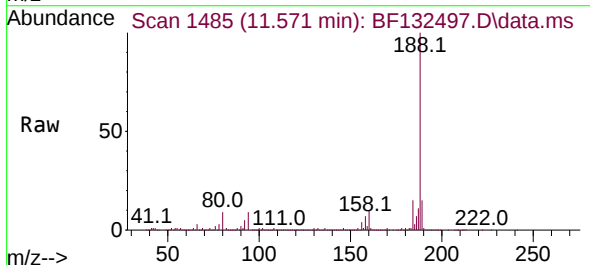
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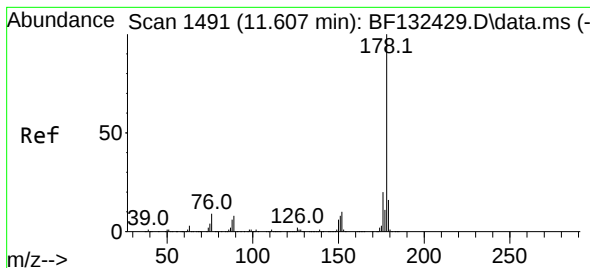
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.571 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

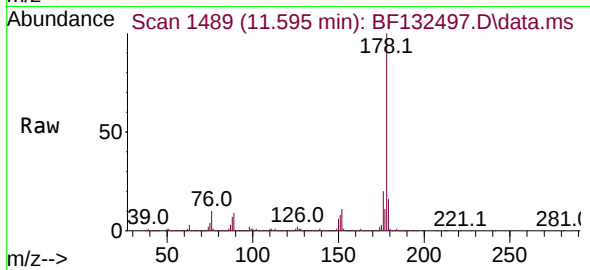
Tgt Ion:188 Resp: 644103
Ion Ratio Lower Upper
188 100
94 8.9 8.0 12.0
80 9.2 8.6 12.8





#71
Phenanthrene
Concen: 41.858 ng
RT: 11.595 min Scan# 1491
Delta R.T. -0.000 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



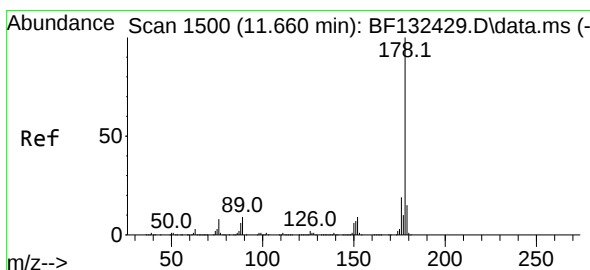
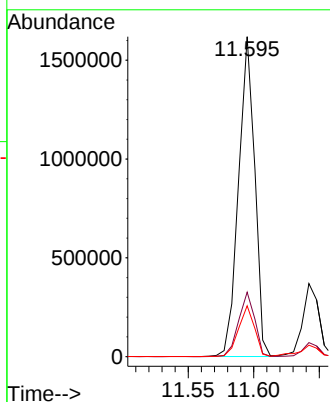
Tgt Ion:178 Resp: 1388595
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.2
179 15.9 12.6 18.8

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Supervised By :Jagrut Upadhyay 02/22/2023

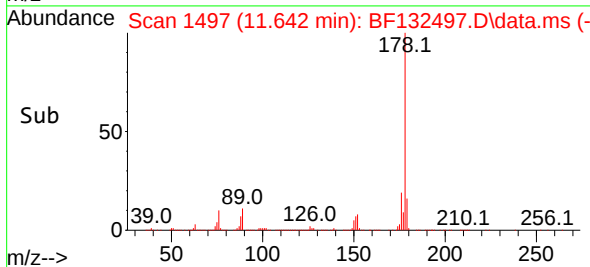
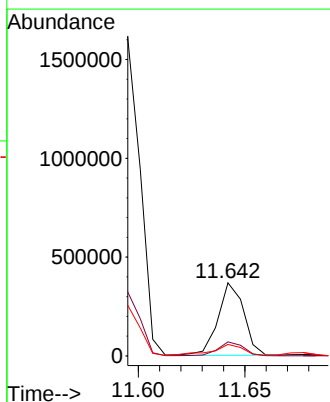
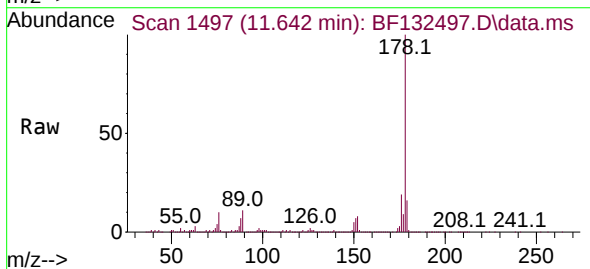
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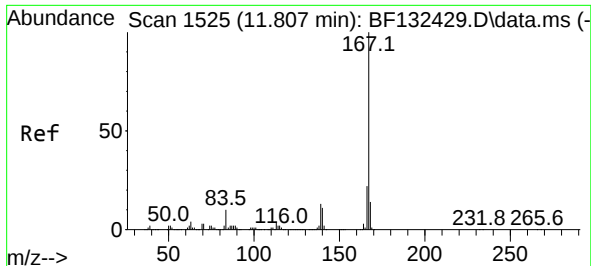
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#72
Anthracene
Concen: 9.080 ng
RT: 11.642 min Scan# 1497
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

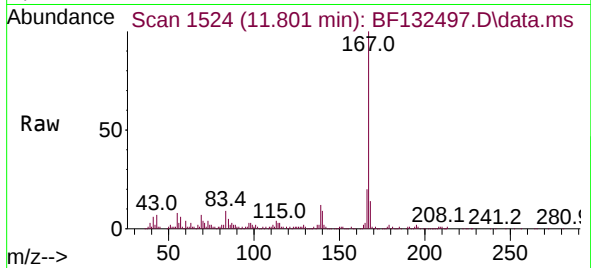
Tgt Ion:178 Resp: 309651
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.7 12.4 18.6





#73
 Carbazole
 Concen: 2.996 ng
 RT: 11.801 min Scan# 1524
 Delta R.T. -0.000 min
 Lab File: BF132497.D
 Acq: 21 Feb 2023 15:57

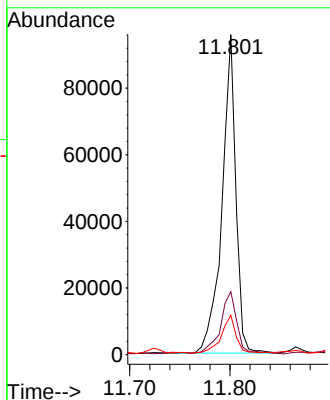
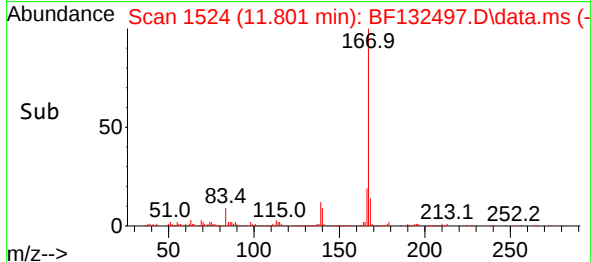
Instrument :
 BNA_F
 ClientSampleId :
 SB-01-0-2.0DL2



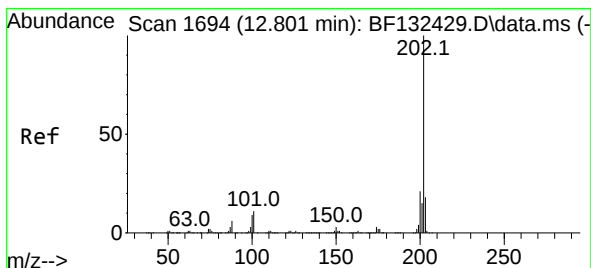
Tgt Ion:167 Resp: 91983
 Ion Ratio Lower Upper
 167 100
 166 19.7 17.8 26.8
 139 12.3 10.7 16.1

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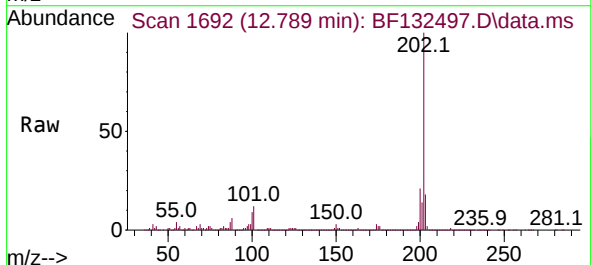
Reviewed By :Christian Giraldo 02/22/2023
 Supervised By :Jagrut Upadhyay 02/22/2023



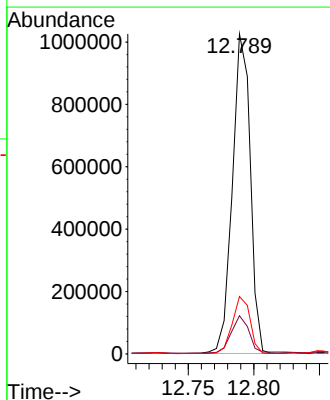
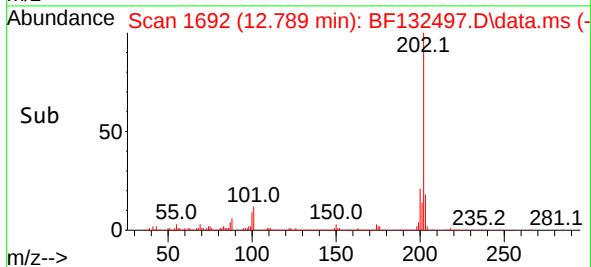
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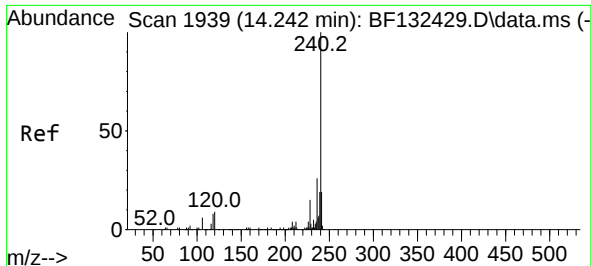


#75
 Fluoranthene
 Concen: 26.203 ng
 RT: 12.789 min Scan# 1692
 Delta R.T. -0.006 min
 Lab File: BF132497.D
 Acq: 21 Feb 2023 15:57



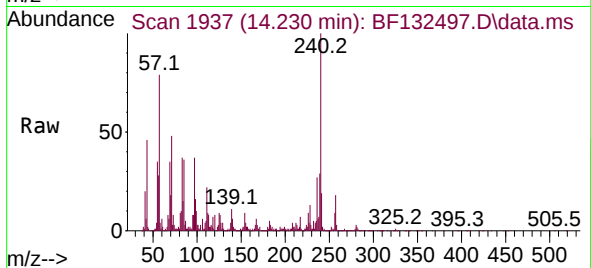
Tgt Ion:202 Resp: 969389
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 31.3
 203 17.9 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.230 min Scan# 1939
Delta R.T. -0.000 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



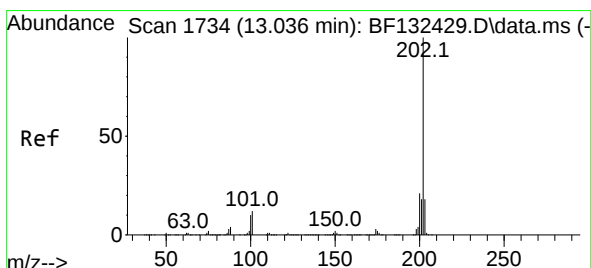
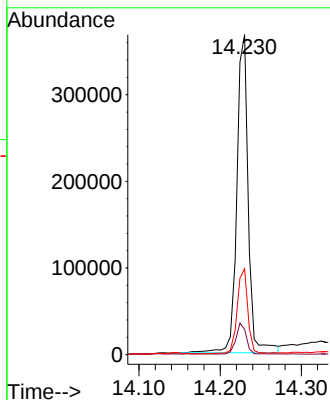
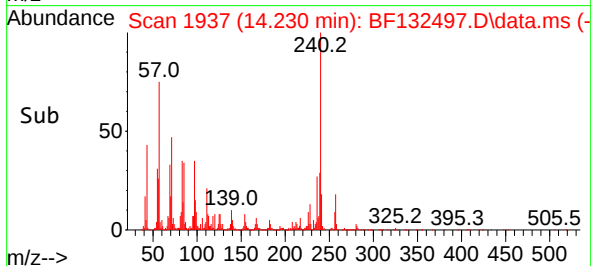
Tgt Ion:240 Resp: 361532
Ion Ratio Lower Upper
240 100
120 7.9 7.5 11.3
236 26.8 21.0 31.6

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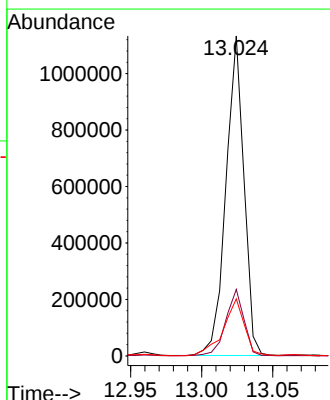
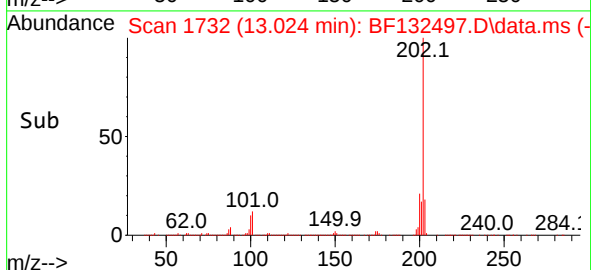
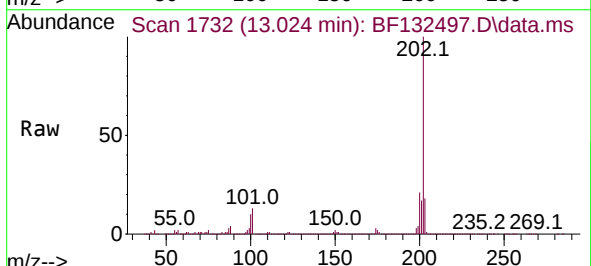
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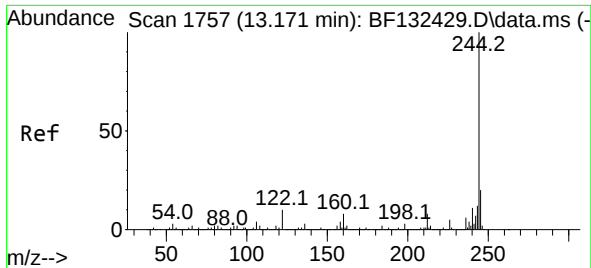
02/22/2023



#78
Pyrene
Concen: 32.602 ng
RT: 13.024 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

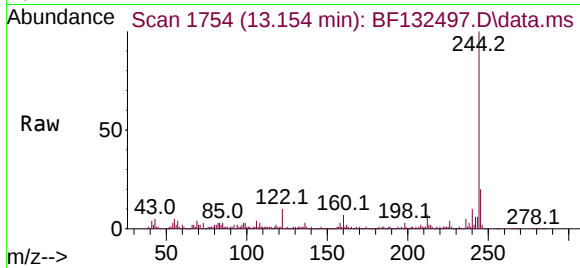
Tgt Ion:202 Resp: 1001270
Ion Ratio Lower Upper
202 100
200 20.8 16.6 25.0
203 17.8 14.3 21.5





#79
Terphenyl-d14
Concen: 9.051 ng
RT: 13.154 min Scan# 1754
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



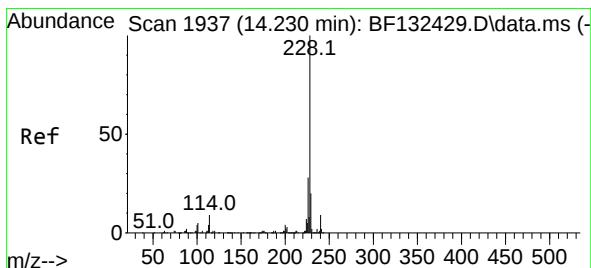
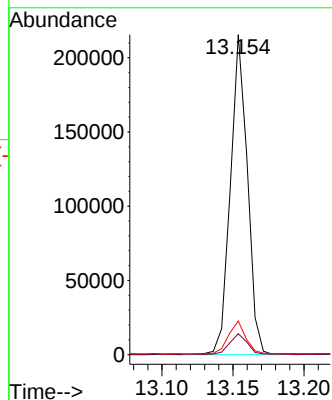
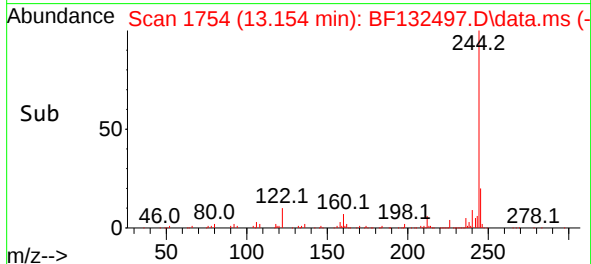
Tgt Ion:244 Resp: 179669
Ion Ratio Lower Upper
244 100
212 6.5 6.7 10.1
122 10.5 7.7 11.5

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Supervised By :Jagrut Upadhyay 02/22/2023

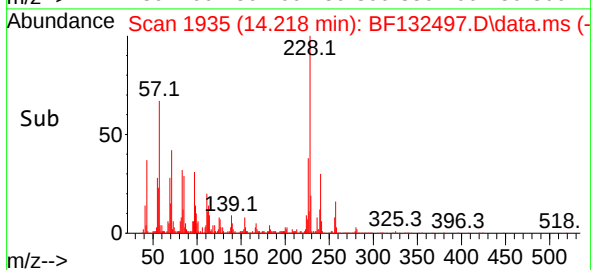
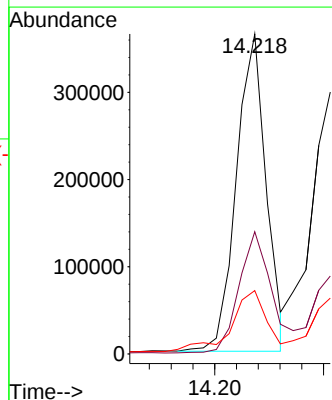
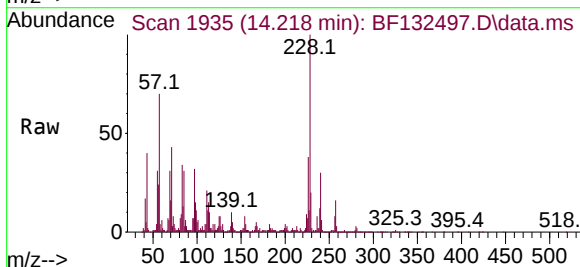
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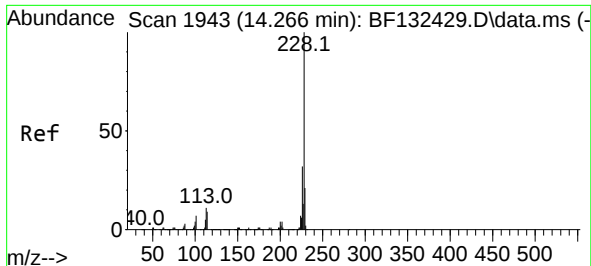
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#81
Benzo(a)anthracene
Concen: 13.073 ng m
RT: 14.218 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

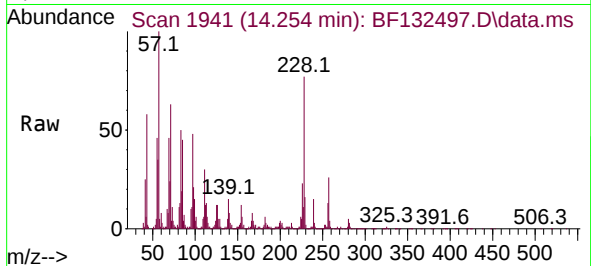
Tgt Ion:228 Resp: 346161
Ion Ratio Lower Upper
228 100
226 38.2 22.6 34.0#
229 19.8 16.2 24.4





#83
Chrysene
Concen: 11.706 ng
RT: 14.254 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



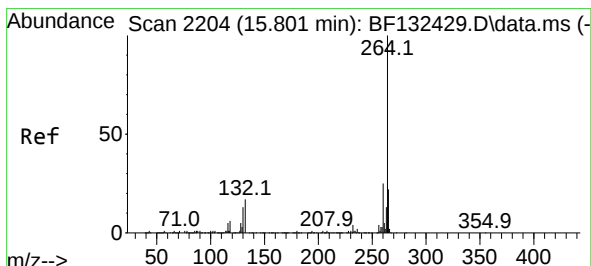
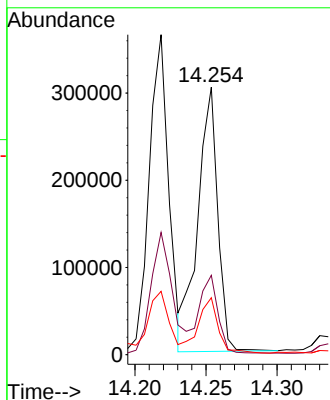
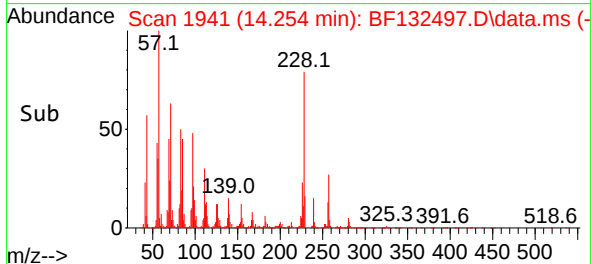
Tgt Ion:228 Resp: 296159
Ion Ratio Lower Upper
228 100
226 29.7 25.4 38.2
229 21.3 16.6 25.0

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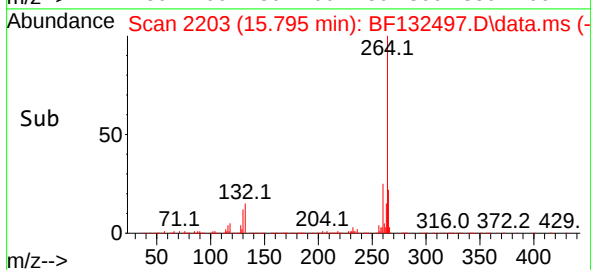
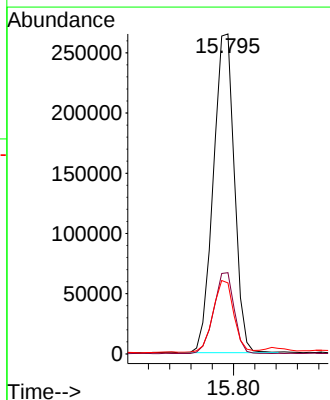
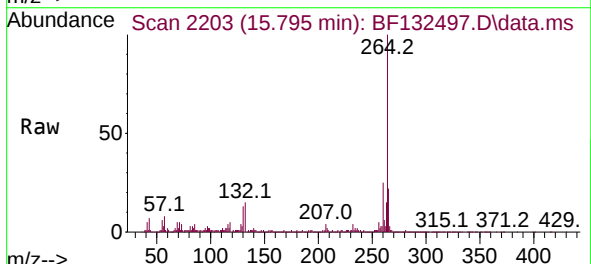
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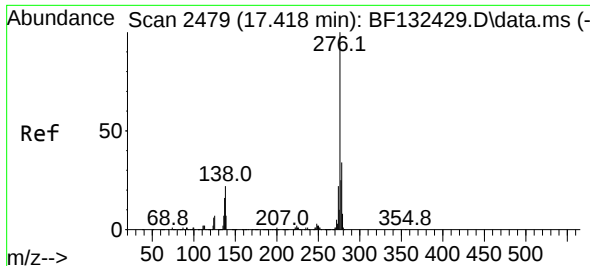
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.795 min Scan# 2203
Delta R.T. 0.012 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Tgt Ion:264 Resp: 364074
Ion Ratio Lower Upper
264 100
260 25.4 20.0 30.0
265 22.2 17.2 25.8





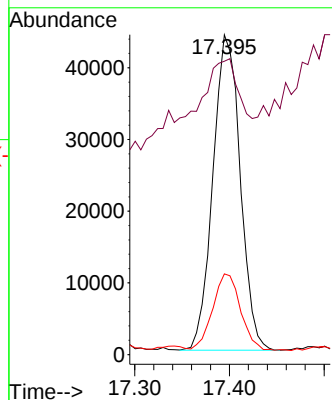
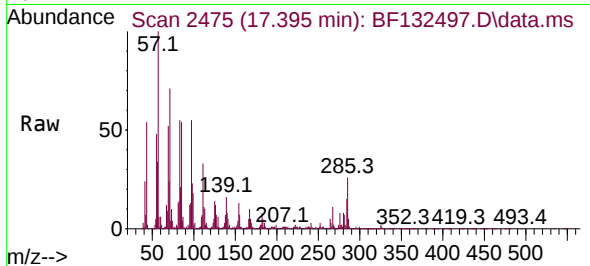
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.782 ng
RT: 17.395 min Scan# 2479
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2

Tgt Ion:276 Resp: 88023
Ion Ratio Lower Upper
276 100
138 0.0 20.2 30.4
277 24.3 20.0 30.0

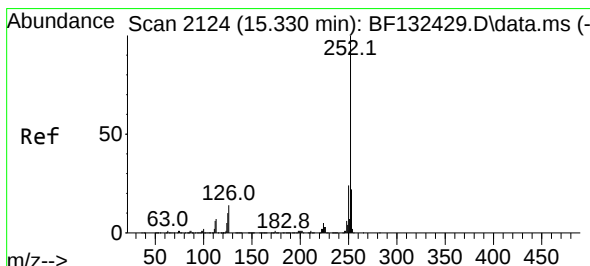
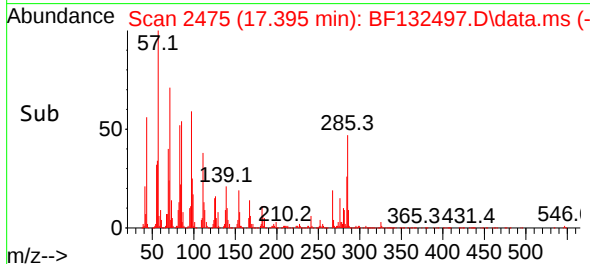
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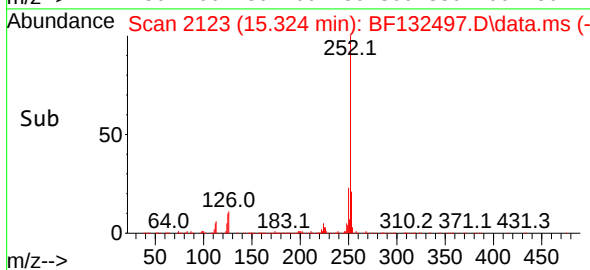
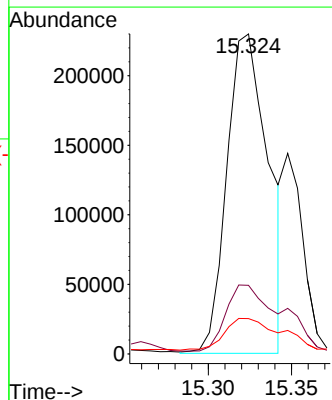
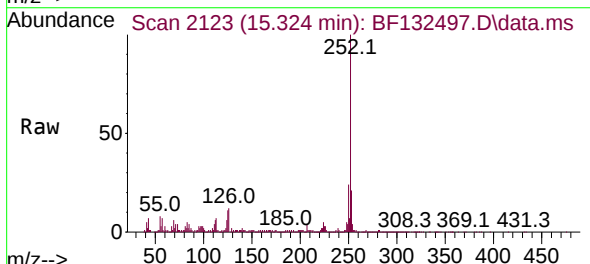
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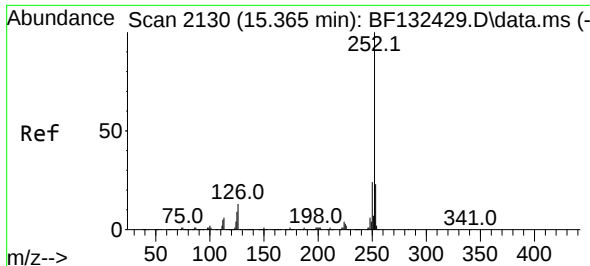
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#88
Benzo(b)fluoranthene
Concen: 16.641 ng m
RT: 15.324 min Scan# 2123
Delta R.T. 0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

Tgt Ion:252 Resp: 398414
Ion Ratio Lower Upper
252 100
253 21.4 17.8 26.8
125 11.0 7.6 11.4





#89

Benzo(k)fluoranthene

Concen: 4.917 ng m

RT: 15.348 min Scan# 2117

Delta R.T. -0.006 min

Lab File: BF132497.D

Acq: 21 Feb 2023 15:57

Instrument :

BNF

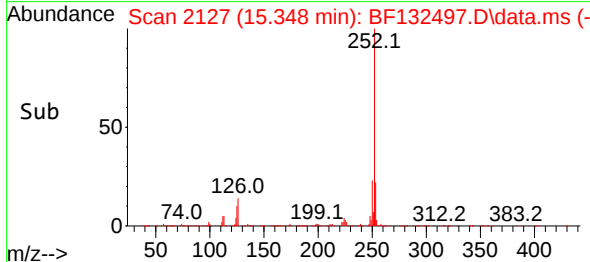
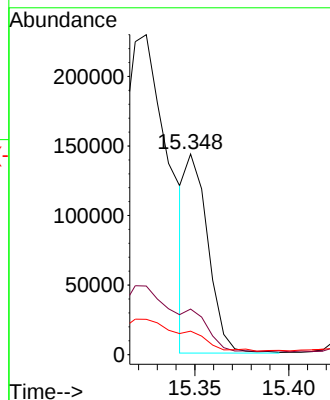
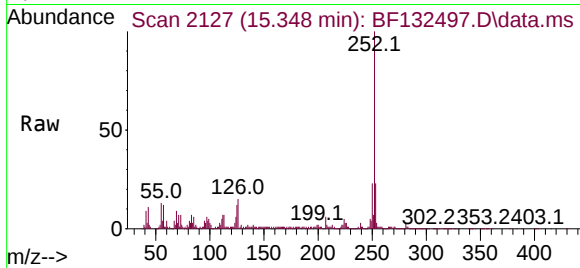
ClientSampleId :

SB-01-0-2.0DL2

Tgt Ion:252 Resp: 117795
 Ion Ratio Lower Upper
 252 100
 253 22.7 18.2 27.2
 125 11.7 7.5 11.3

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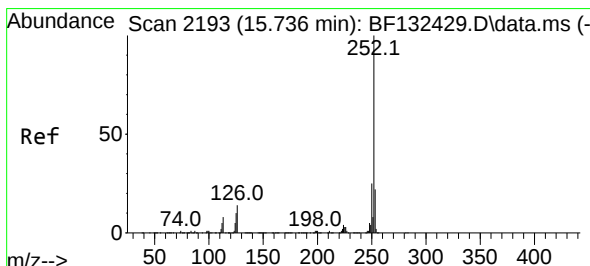
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#90

Benzo(a)pyrene

Concen: 14.122 ng

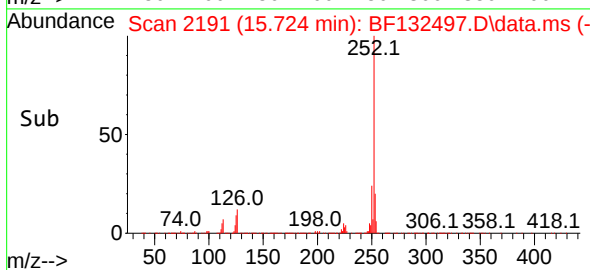
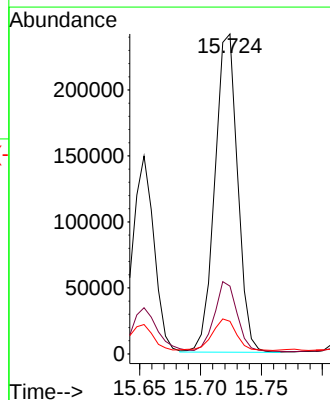
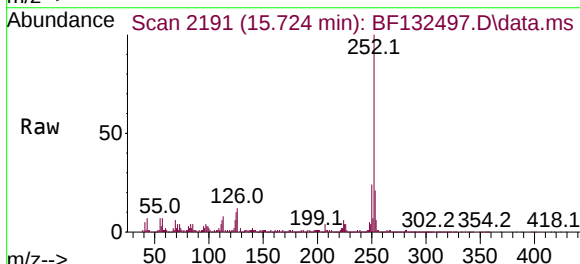
RT: 15.724 min Scan# 2191

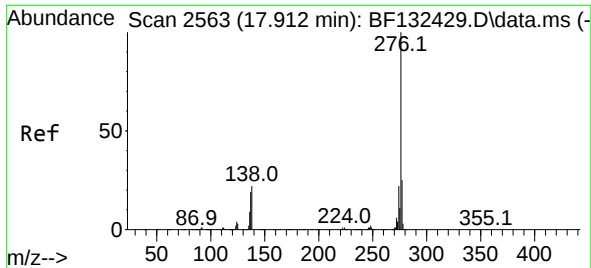
Delta R.T. 0.006 min

Lab File: BF132497.D

Acq: 21 Feb 2023 15:57

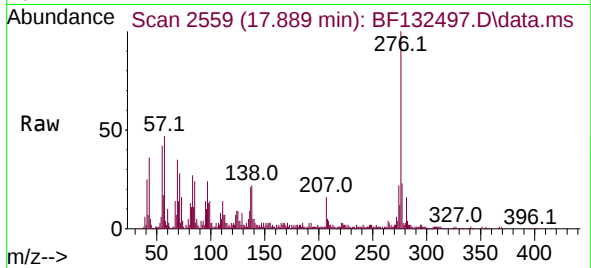
Tgt Ion:252 Resp: 314206
 Ion Ratio Lower Upper
 252 100
 253 21.2 17.6 26.4
 125 10.2 8.2 12.4





#92
Benzo(g,h,i)perylene
Concen: 6.323 ng
RT: 17.889 min Scan# 2559
Delta R.T. -0.006 min
Lab File: BF132497.D
Acq: 21 Feb 2023 15:57

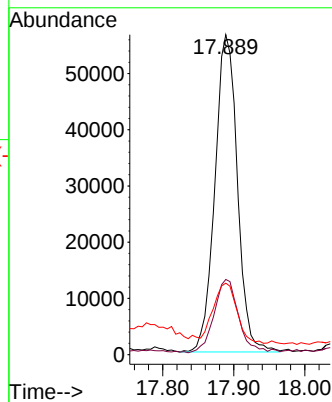
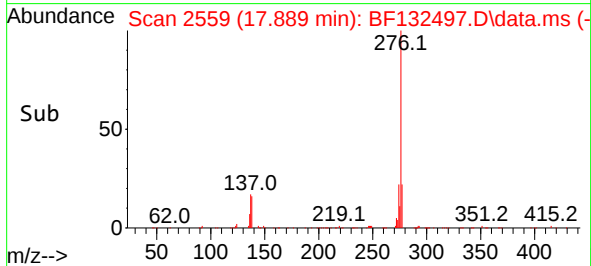
Instrument :
BNA_F
ClientSampleId :
SB-01-0-2.0DL2



Tgt Ion:276 Resp: 124465
Ion Ratio Lower Upper
276 100
277 23.5 19.6 29.4
138 22.3 17.7 26.5

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



02/22/2023
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Upadhyay
02/22/2023