

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042823\
 Data File : BF133145.D
 Acq On : 29 Apr 2023 03:44
 Operator : CG\JU
 Sample : 02423-11RE 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPE-1WC-23-04-18RE

Quant Time: May 01 03:12:00 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 01 03:03:04 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/01/2023
 Supervised By :Jagrut Upadhyay 05/01/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	338337	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	1366046	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	676259	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	1037794	20.000	ng	0.00
76) Chrysene-d12	13.892	240	657348	20.000	ng	0.00
86) Perylene-d12	15.333	264	603348	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	316970	14.152	ng	0.00
7) Phenol-d6	6.369	99	391787	14.093	ng	-0.01
23) Nitrobenzene-d5	7.292	82	264471	10.450	ng	-0.01
42) 2,4,6-Tribromophenol	10.551	330	70471	10.362	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	512195	12.671	ng	0.00
79) Terphenyl-d14	12.833	244	391469	10.271	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.275	178	214824	3.851	ng	99
75) Fluoranthene	12.463	202	320021	5.717	ng	95
78) Pyrene	12.686	202	326549	5.795	ng	98
81) Benzo(a)anthracene	13.880	228	161661	3.576	ng	93
83) Chrysene	13.916	228	175172	3.876	ng	96
87) Indeno(1,2,3-cd)pyrene	16.715	276	98654	2.875	ng	97
88) Benzo(b)fluoranthene	14.915	252	246602m	6.425	ng	
90) Benzo(a)pyrene	15.263	252	137990	3.950	ng	# 75
92) Benzo(g,h,i)perylene	17.127	276	97927	3.465	ng	95

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

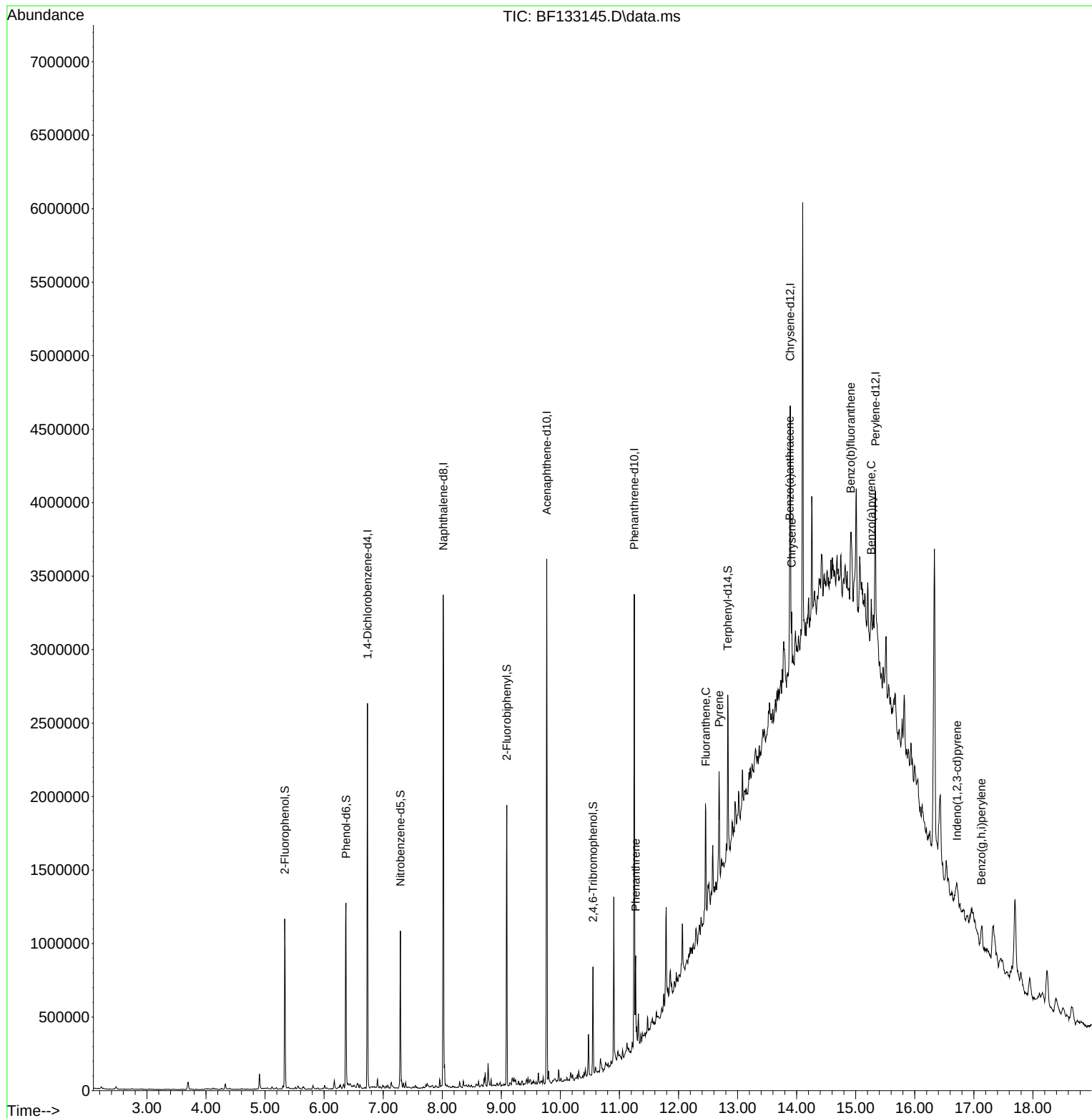
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042823\
Data File : BF133145.D
Acq On : 29 Apr 2023 03:44
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Sample : 02423-11RE 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

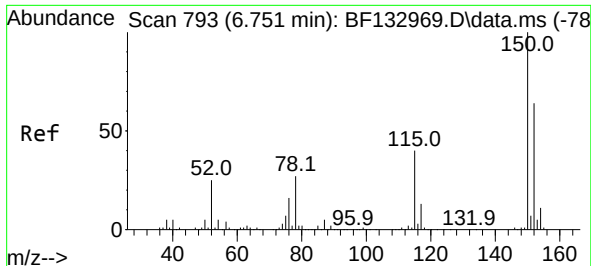
Instrument :
BNA_F
ClientSampleId :
SPE-1WC-23-04-18RE

Quant Time: May 01 03:12:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 01 03:03:04 2023
Response via : Initial Calibration

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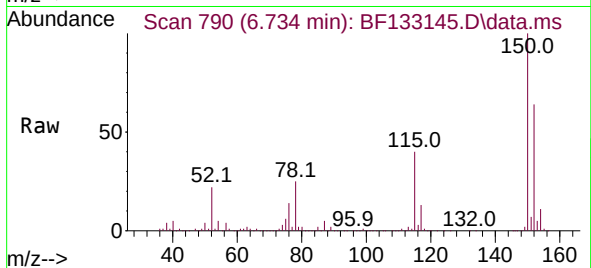
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 793
Delta R.T. -0.005 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

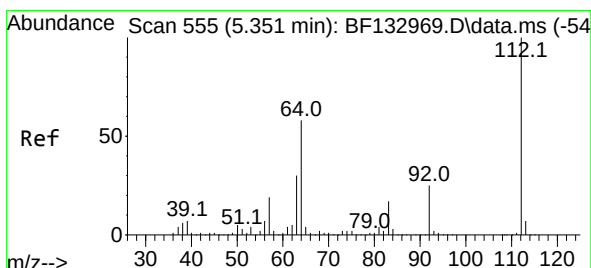
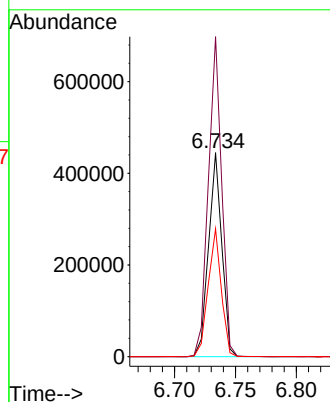
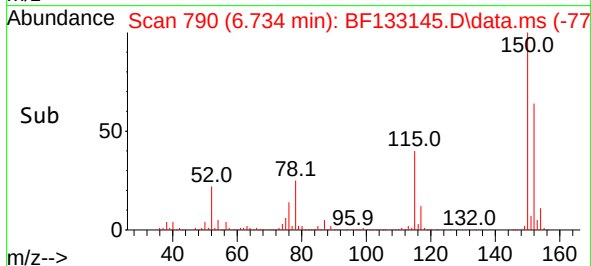
Instrument :
BNA_F
ClientSampleId :
SPE-1WC-23-04-18RE



Tgt Ion:152 Resp: 338337
Ion Ratio Lower Upper
152 100
150 156.9 124.8 187.2
115 62.6 49.9 74.9

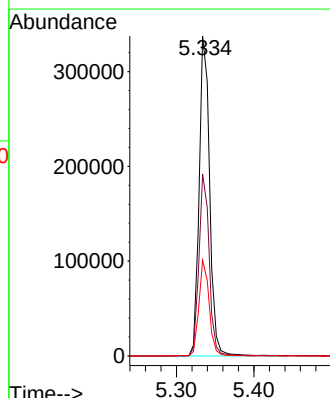
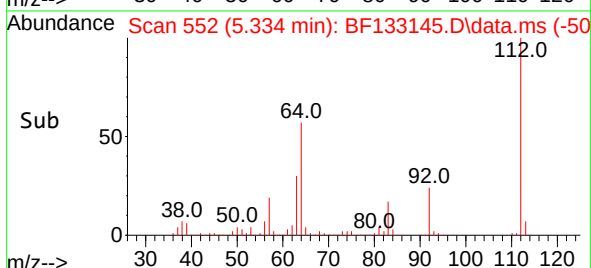
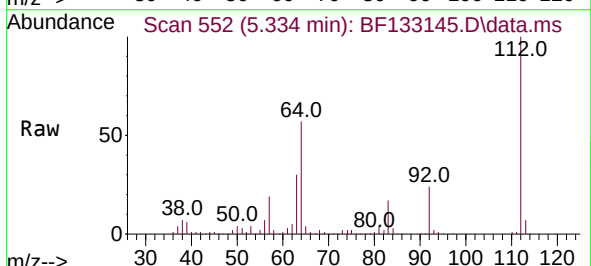
Manual Integrations
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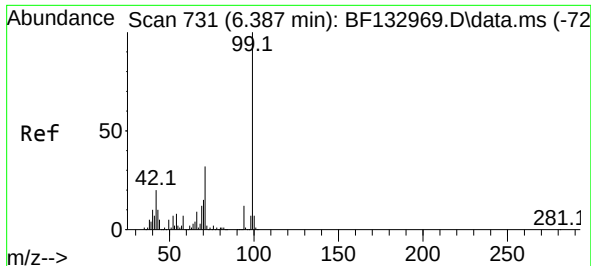
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#5
2-Fluorophenol
Concen: 14.152 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.006 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

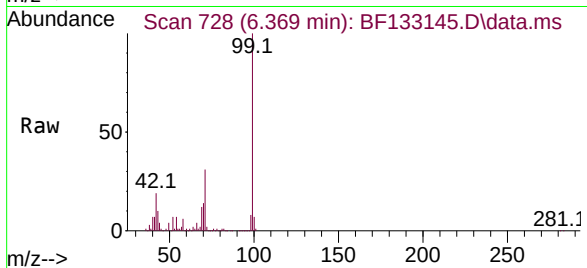
Tgt Ion:112 Resp: 316970
Ion Ratio Lower Upper
112 100
64 56.9 46.8 70.2
63 29.9 23.8 35.8





#7
Phenol-d6
Concen: 14.093 ng
RT: 6.369 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

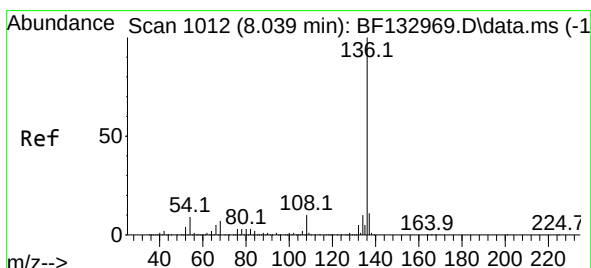
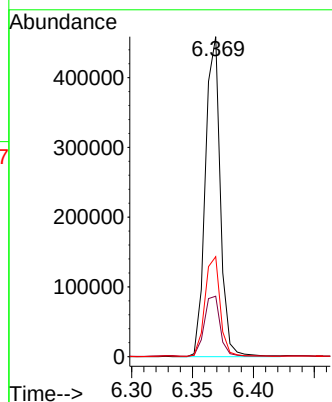
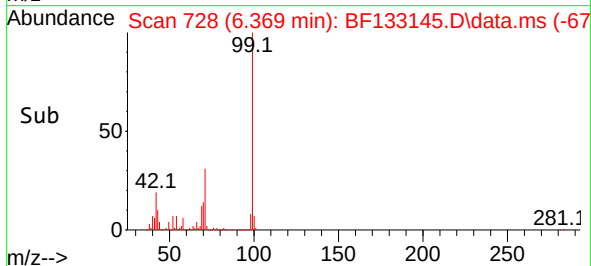
Instrument :
BNA_F
ClientSampleId :
SPE-1WC-23-04-18RE



Tgt Ion: 99 Resp: 39178
Ion Ratio Lower Upper
99 100
42 18.9 16.3 24.5
71 31.2 25.6 38.4

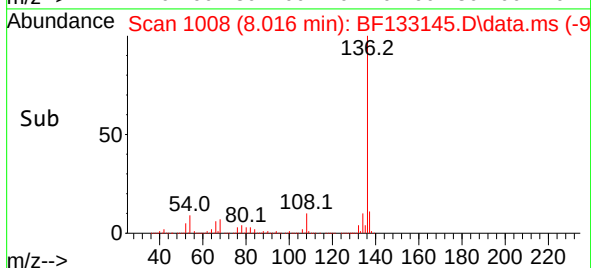
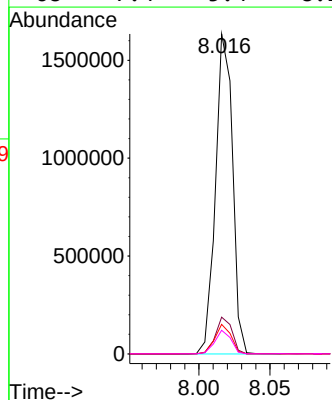
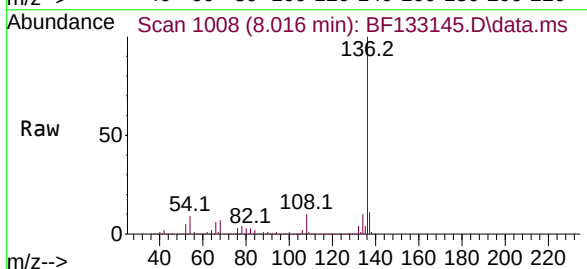
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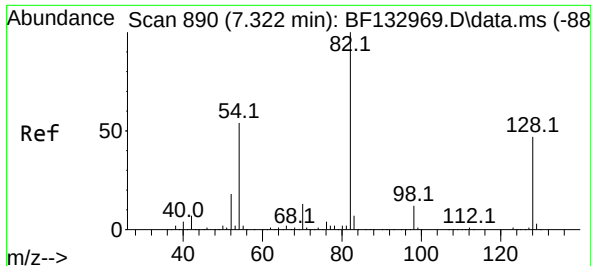
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

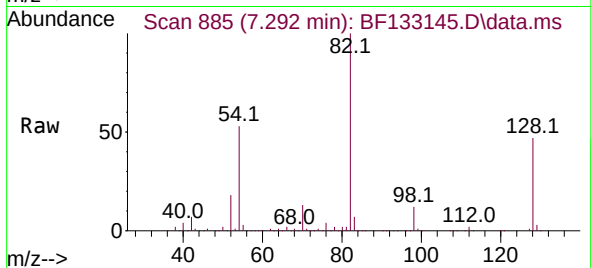
Tgt Ion:136 Resp: 1366046
Ion Ratio Lower Upper
136 100
137 11.5 8.6 13.0
54 9.2 7.0 10.4
68 7.4 5.4 8.2





#23
Nitrobenzene-d5
Concen: 10.450 ng
RT: 7.292 min Scan# 88
Delta R.T. -0.012 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

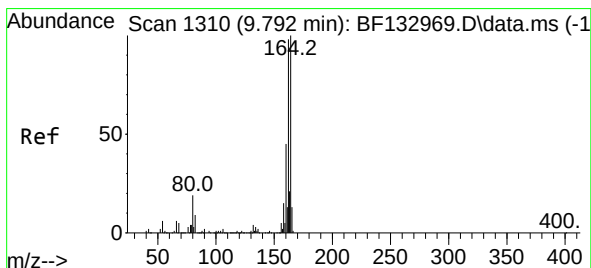
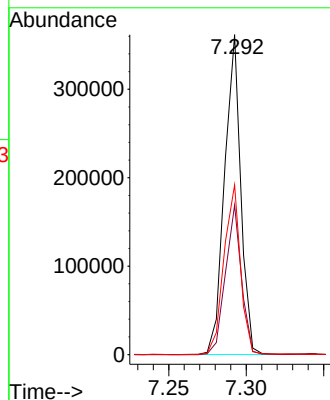
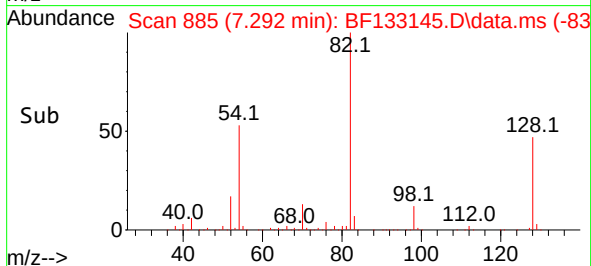
Instrument :
BNA_F
ClientSampleId :
SPE-1WC-23-04-18RE



Tgt Ion: 82 Resp: 26447
Ion Ratio Lower Upper
82 100
128 46.7 37.7 56.5
54 53.0 43.0 64.4

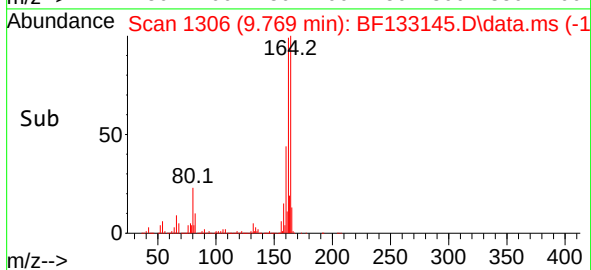
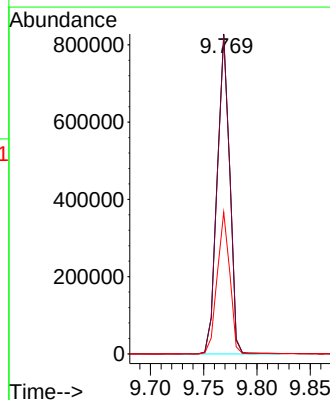
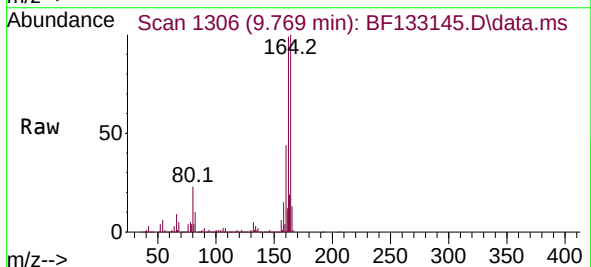
Manual Integrations
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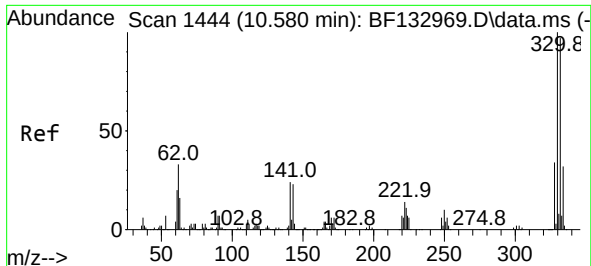
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.769 min Scan# 1306
Delta R.T. -0.006 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

Tgt Ion:164 Resp: 676259
Ion Ratio Lower Upper
164 100
162 99.5 78.7 118.1
160 44.3 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 10.362 ng
RT: 10.551 min Scan# 1444
Delta R.T. -0.012 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

Instrument :

BNA_F

ClientSampleId :

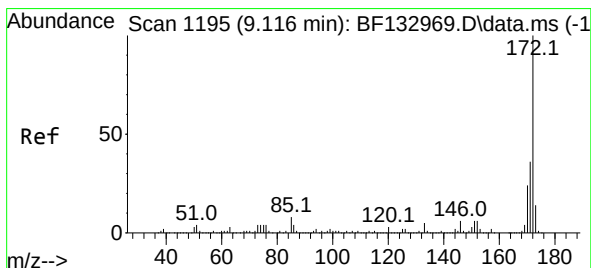
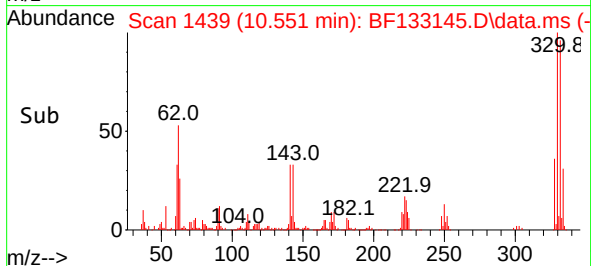
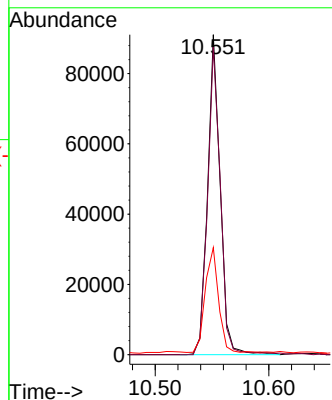
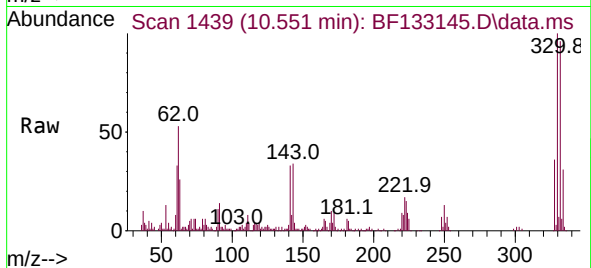
SPE-1WC-23-04-18RE

Tgt Ion:330 Resp: 7047
Ion Ratio Lower Upper
330 100
332 98.0 77.1 115.7
141 34.5 25.8 38.8

Manual Integrations

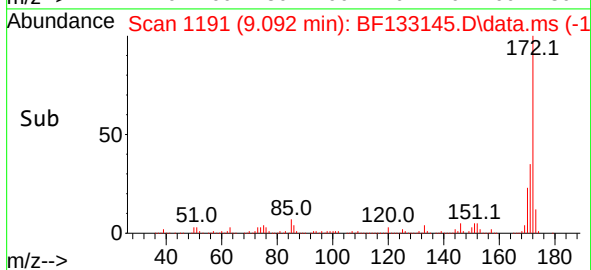
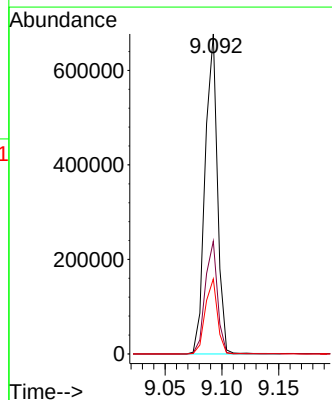
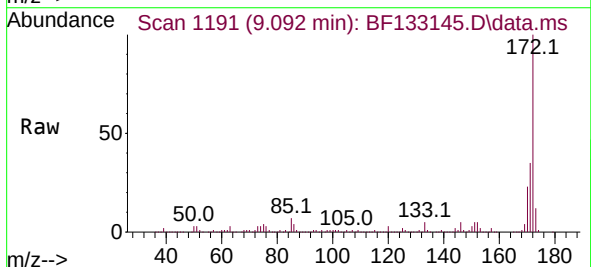
APPROVED

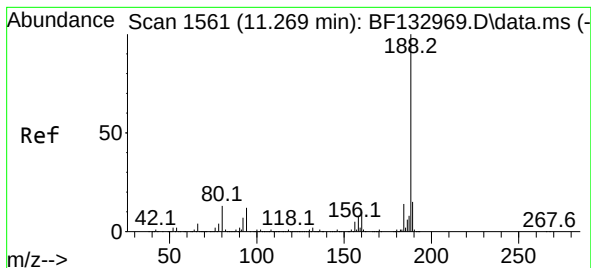
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#45
2-Fluorobiphenyl
Concen: 12.671 ng
RT: 9.092 min Scan# 1191
Delta R.T. -0.006 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

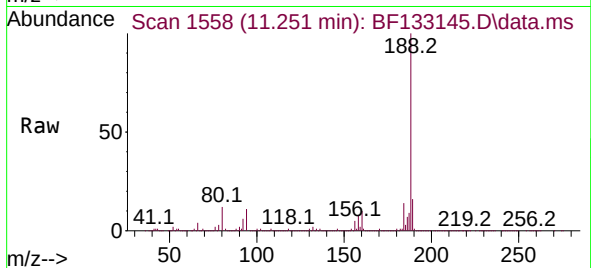
Tgt Ion:172 Resp: 512195
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.5 19.4 29.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.251 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

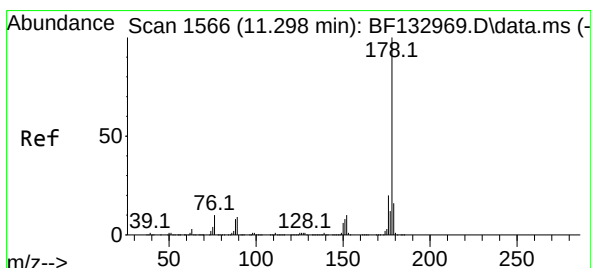
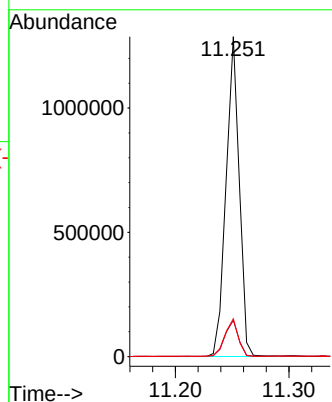
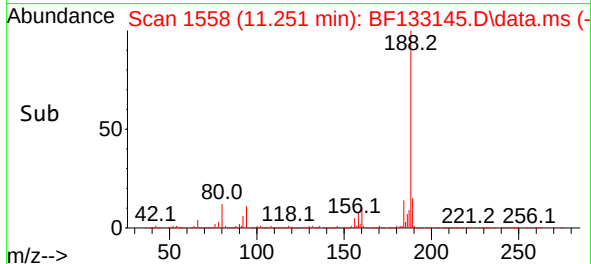
Instrument :
BNA_F
ClientSampleId :
SPE-1WC-23-04-18RE



Tgt Ion:188 Resp: 1037794
Ion Ratio Lower Upper
188 100
94 11.4 9.7 14.5
80 11.8 10.4 15.6

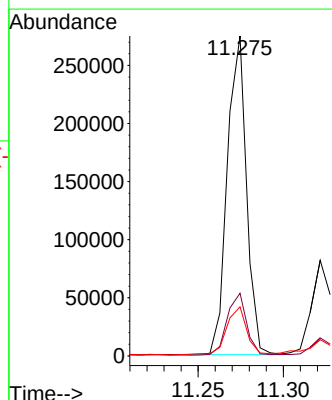
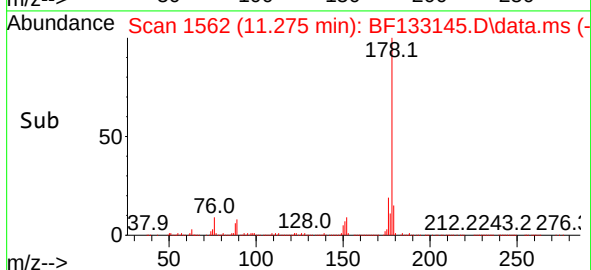
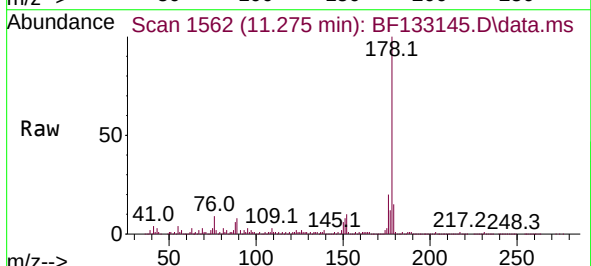
Manual Integrations
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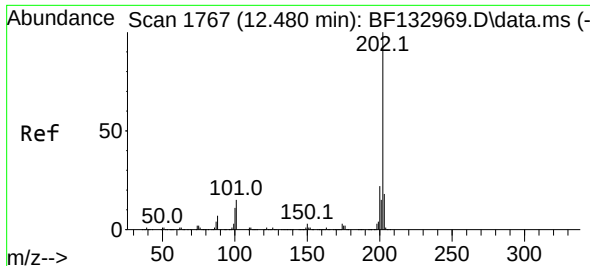
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#71
Phenanthrene
Concen: 3.851 ng
RT: 11.275 min Scan# 1562
Delta R.T. -0.006 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

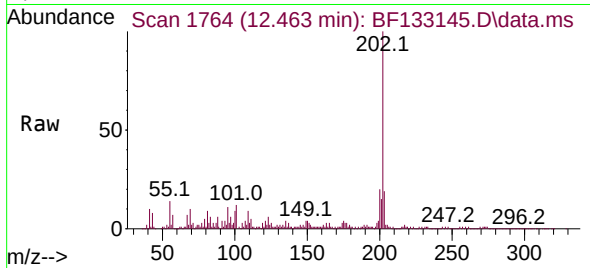
Tgt Ion:178 Resp: 214824
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.3 12.5 18.7





#75
Fluoranthene
Concen: 5.717 ng
RT: 12.463 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

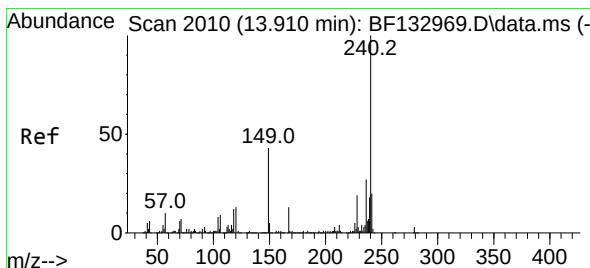
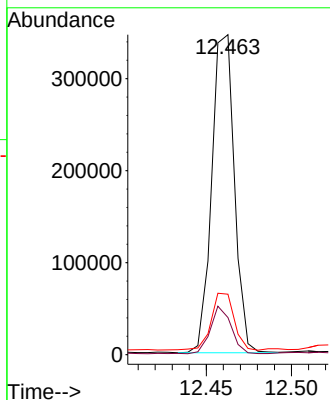
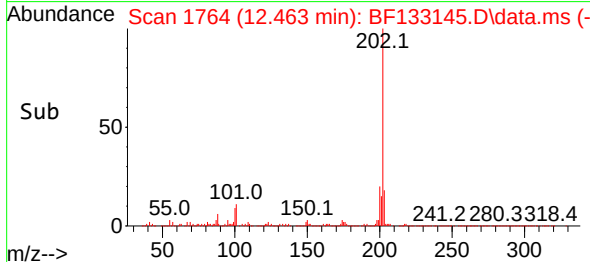
Instrument :
BNA_F
ClientSampleId :
SPE-1WC-23-04-18RE



Tgt Ion:202 Resp: 320021
Ion Ratio Lower Upper
202 100
101 11.6 0.0 35.3
203 18.9 0.0 38.1

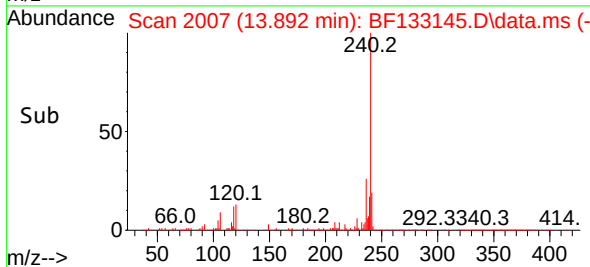
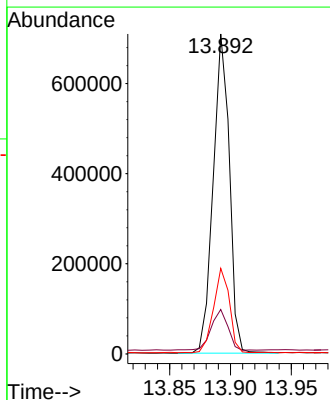
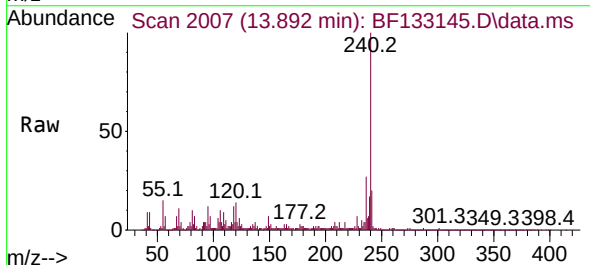
Manual Integrations
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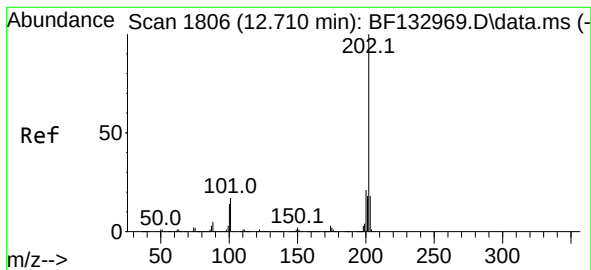
Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.892 min Scan# 2007
Delta R.T. 0.000 min
Lab File: BF133145.D
Acq: 29 Apr 2023 03:44

Tgt Ion:240 Resp: 657348
Ion Ratio Lower Upper
240 100
120 13.9 10.5 15.7
236 26.7 21.5 32.3





#78

Pyrene

Concen: 5.795 ng

RT: 12.686 min Scan# 1806

Delta R.T. -0.006 min

Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Instrument :

BNA_F

ClientSampleId :

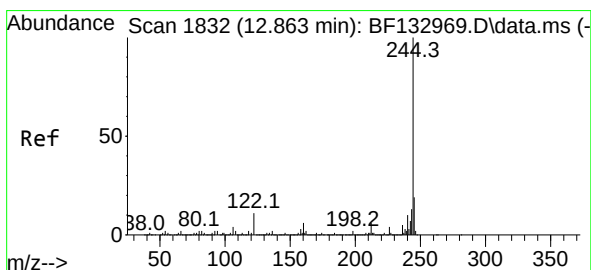
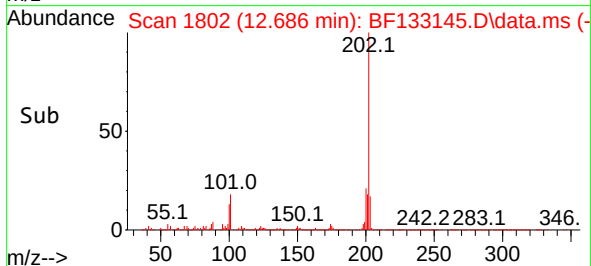
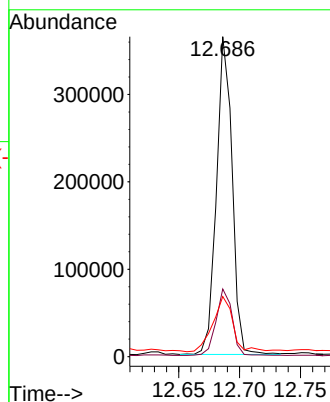
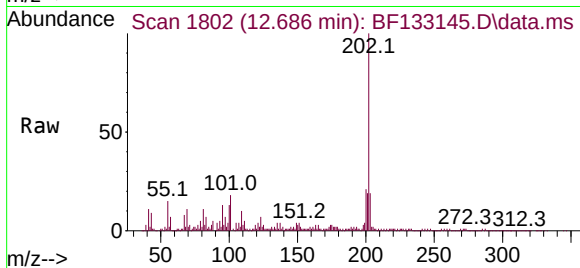
SPE-1WC-23-04-18RE

Tgt Ion:202 Resp: 326549
 Ion Ratio Lower Upper
 202 100
 200 21.1 17.1 25.7
 203 18.8 14.1 21.1

Manual Integrations

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Reviewed By :Christian Giraldo 05/01/2023
 Supervised By :Jagrut Upadhyay 05/01/2023



#79

Terphenyl-d14

Concen: 10.271 ng

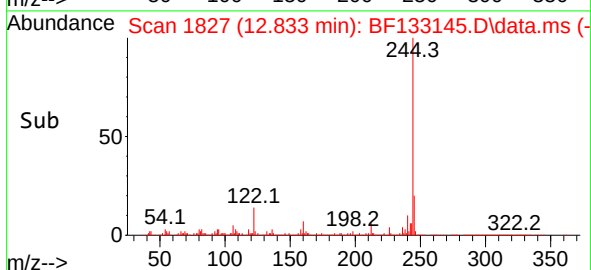
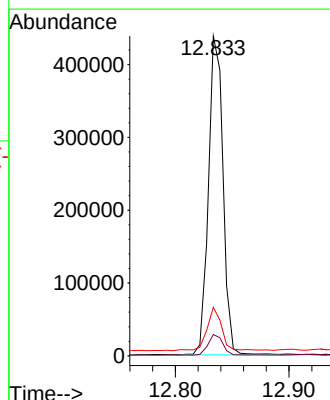
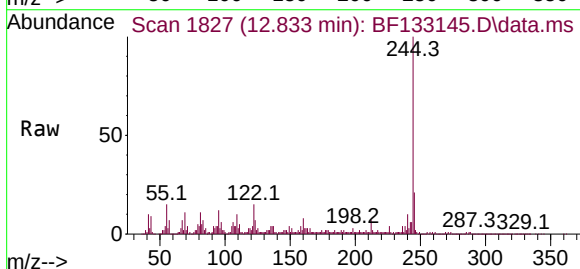
RT: 12.833 min Scan# 1827

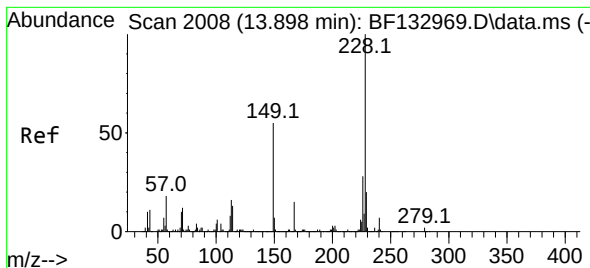
Delta R.T. -0.006 min

Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Tgt Ion:244 Resp: 391469
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.1 7.7
 122 15.2 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 3.576 ng

RT: 13.880 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Instrument :

BNA_F

ClientSampleId :

SPE-1WC-23-04-18RE

Tgt Ion:228 Resp: 16166

Ion Ratio Lower Upper

228 100

226 31.1 22.2 33.4

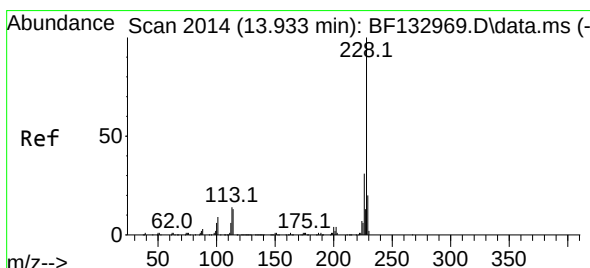
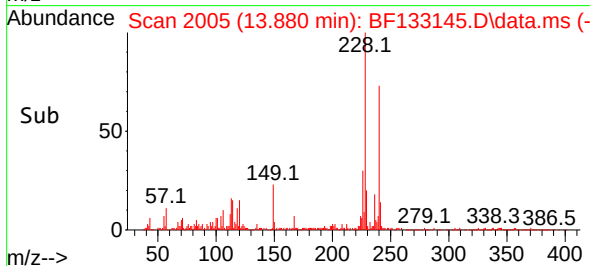
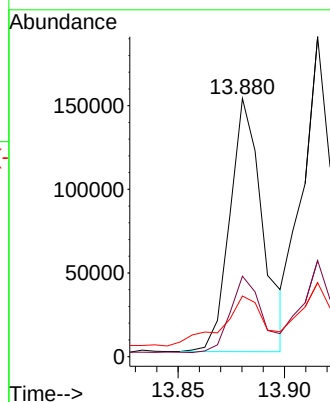
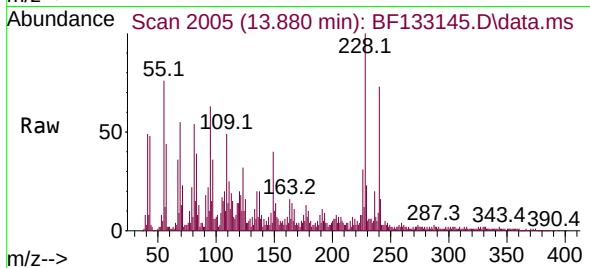
229 23.5 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/01/2023

Supervised By :Jagrut Upadhyay 05/01/2023



#83

Chrysene

Concen: 3.876 ng

RT: 13.916 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

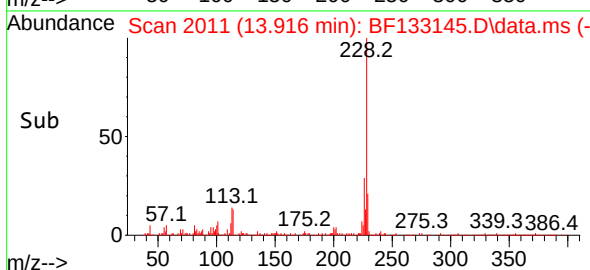
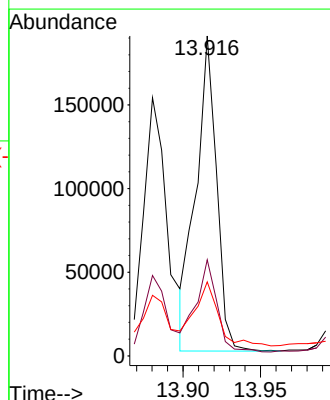
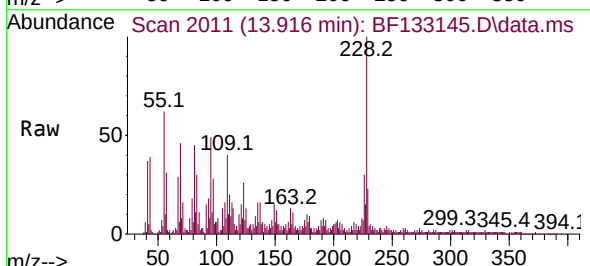
Tgt Ion:228 Resp: 175172

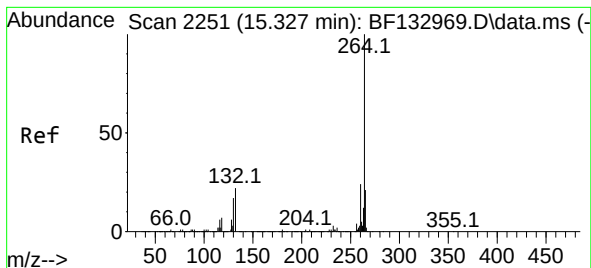
Ion Ratio Lower Upper

228 100

226 30.0 24.7 37.1

229 23.1 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.333 min Scan# 2252

Delta R.T. 0.024 min

Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Instrument :

BNA_F

ClientSampleId :

SPE-1WC-23-04-18RE

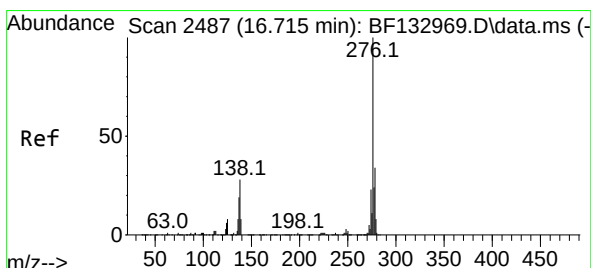
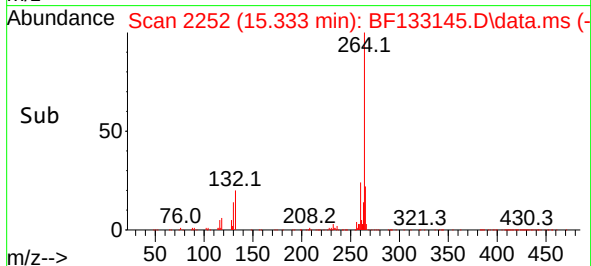
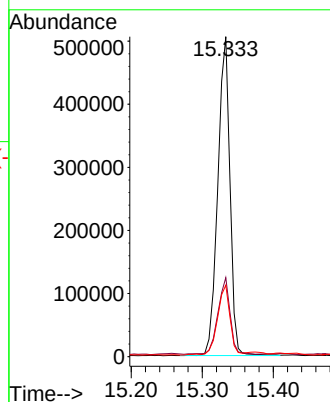
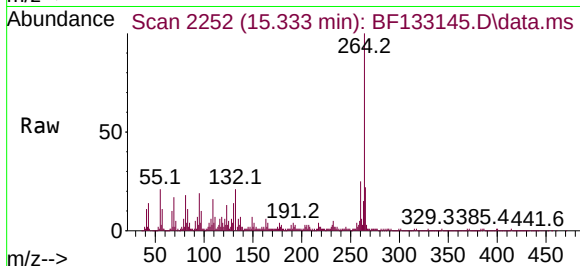
Tgt Ion: 264 Resp: 603348

Ion	Ratio	Lower	Upper
264	100		
260	24.7	18.8	28.2
265	22.4	17.0	25.4

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 05/01/2023
Supervised By : Jagrut Upadhyay 05/01/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.875 ng

RT: 16.715 min Scan# 2487

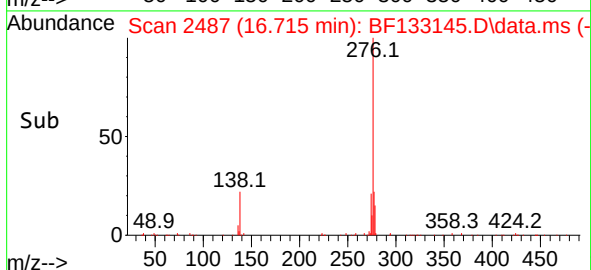
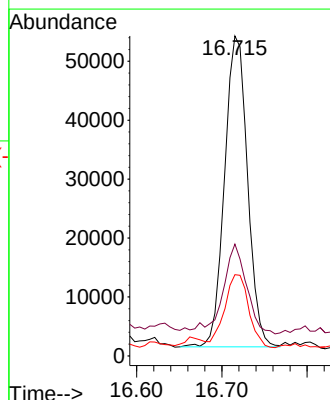
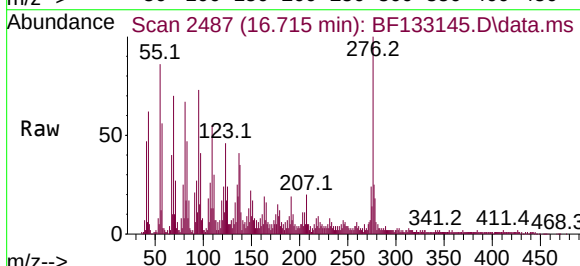
Delta R.T. 0.024 min

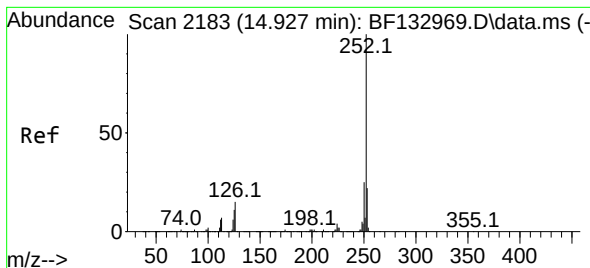
Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Tgt Ion: 276 Resp: 98654

Ion	Ratio	Lower	Upper
276	100		
138	29.8	25.5	38.3
277	24.6	20.4	30.6





#88

Benzo(b)fluoranthene

Concen: 6.425 ng m

RT: 14.915 min Scan# 2183

Delta R.T. 0.012 min

Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Instrument :

BNA_F

ClientSampleId :

SPE-1WC-23-04-18RE

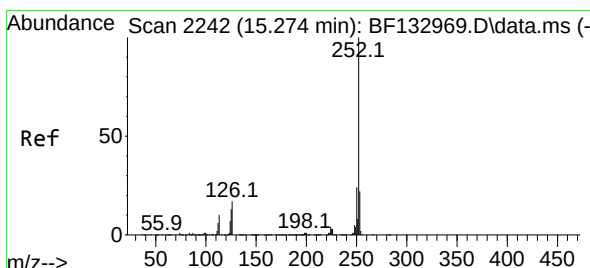
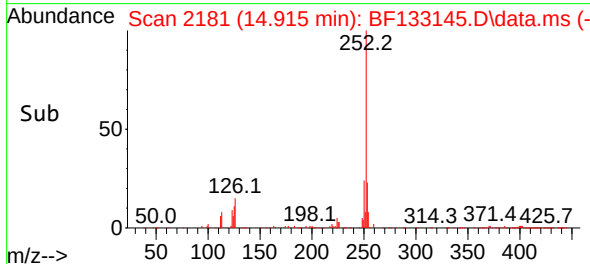
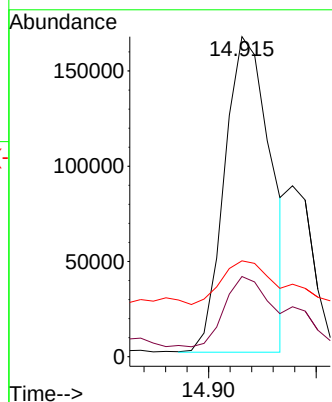
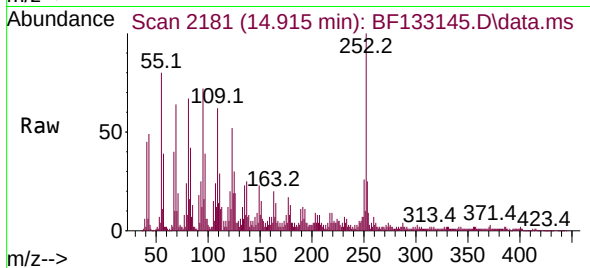
Tgt Ion:252 Resp: 246602

Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.6	26.4
125	30.0	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/01/2023
Supervised By :Jagrut Upadhyay 05/01/2023



#90

Benzo(a)pyrene

Concen: 3.950 ng

RT: 15.263 min Scan# 2240

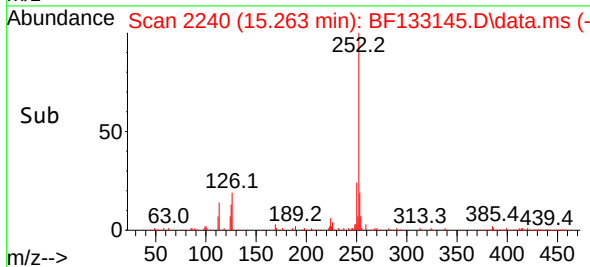
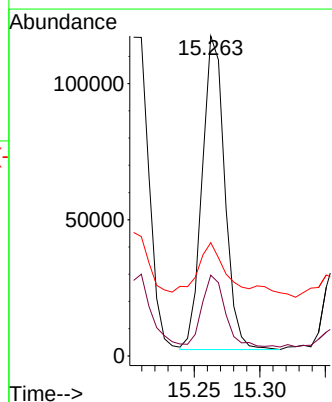
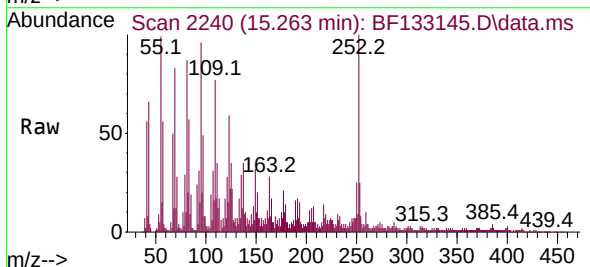
Delta R.T. 0.012 min

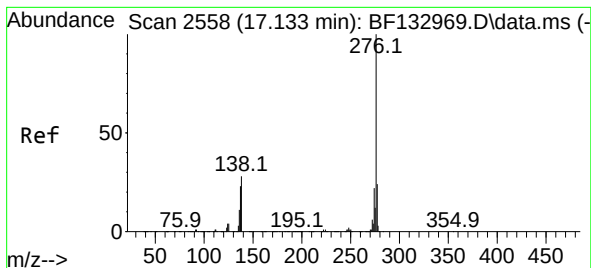
Lab File: BF133145.D

Acq: 29 Apr 2023 03:44

Tgt Ion:252 Resp: 137990

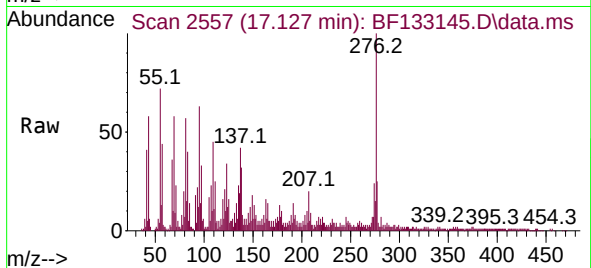
Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.7	26.5
125	35.4	10.5	15.7





#92
 Benzo(g,h,i)perylene
 Concen: 3.465 ng
 RT: 17.127 min Scan# 21
 Delta R.T. 0.024 min
 Lab File: BF133145.D
 Acq: 29 Apr 2023 03:44

Instrument :
 BNA_F
 ClientSampleId :
 SPE-1WC-23-04-18RE



Tgt Ion:	276	Resp:	9792
Ion Ratio	Lower	Upper	
276	100		
277	25.2	19.4	29.0
138	31.9	22.7	34.1

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/01/2023
 Supervised By :Jagrut Upadhyay 05/01/2023

