

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011023\
 Data File : BF132012.D
 Acq On : 10 Jan 2023 23:40
 Operator : CG\JU
 Sample : 01033-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-228

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/11/2023
 Supervised By : Jagrut Upadhyay 01/11/2023

Quant Time: Jan 11 00:42:18 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 10 00:32:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	63469	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	208475	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	101810	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	181426	20.000	ng	0.00
76) Chrysene-d12	13.980	240	135919	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	110768	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.393	112	73437	19.066	ng	0.00
7) Phenol-d6	6.428	99	93267	18.263	ng	0.00
23) Nitrobenzene-d5	7.351	82	58442	11.635	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	17405	14.869	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	90446	11.993	ng	-0.01
79) Terphenyl-d14	12.916	244	87181	9.193	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.692	152	80631	8.519	ng	98
52) Acenaphthene	9.863	154	15390	2.709	ng	98
58) Fluorene	10.381	166	29020	4.057	ng	98
71) Phenanthrene	11.351	178	331228	35.022	ng	100
72) Anthracene	11.404	178	70317	7.222	ng	97
73) Carbazole	11.563	167	19361	2.402	ng	# 93
75) Fluoranthene	12.551	202	552500	51.943	ng	99
78) Pyrene	12.780	202	598754	48.300	ng	100
81) Benzo(a)anthracene	13.974	228	302605m	30.602	ng	
83) Chrysene	14.010	228	304430	32.942	ng	99
87) Indeno(1,2,3-cd)pyrene	16.915	276	157499	23.184	ng	97
88) Benzo(b)fluoranthene	15.027	252	438071m	57.661	ng	
89) Benzo(k)fluoranthene	15.051	252	107387m	14.163	ng	
90) Benzo(a)pyrene	15.392	252	282934	41.334	ng	97
91) Dibenzo(a,h)anthracene	16.921	278	42119m	7.396	ng	
92) Benzo(g,h,i)perylene	17.357	276	146883	25.844	ng	94

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

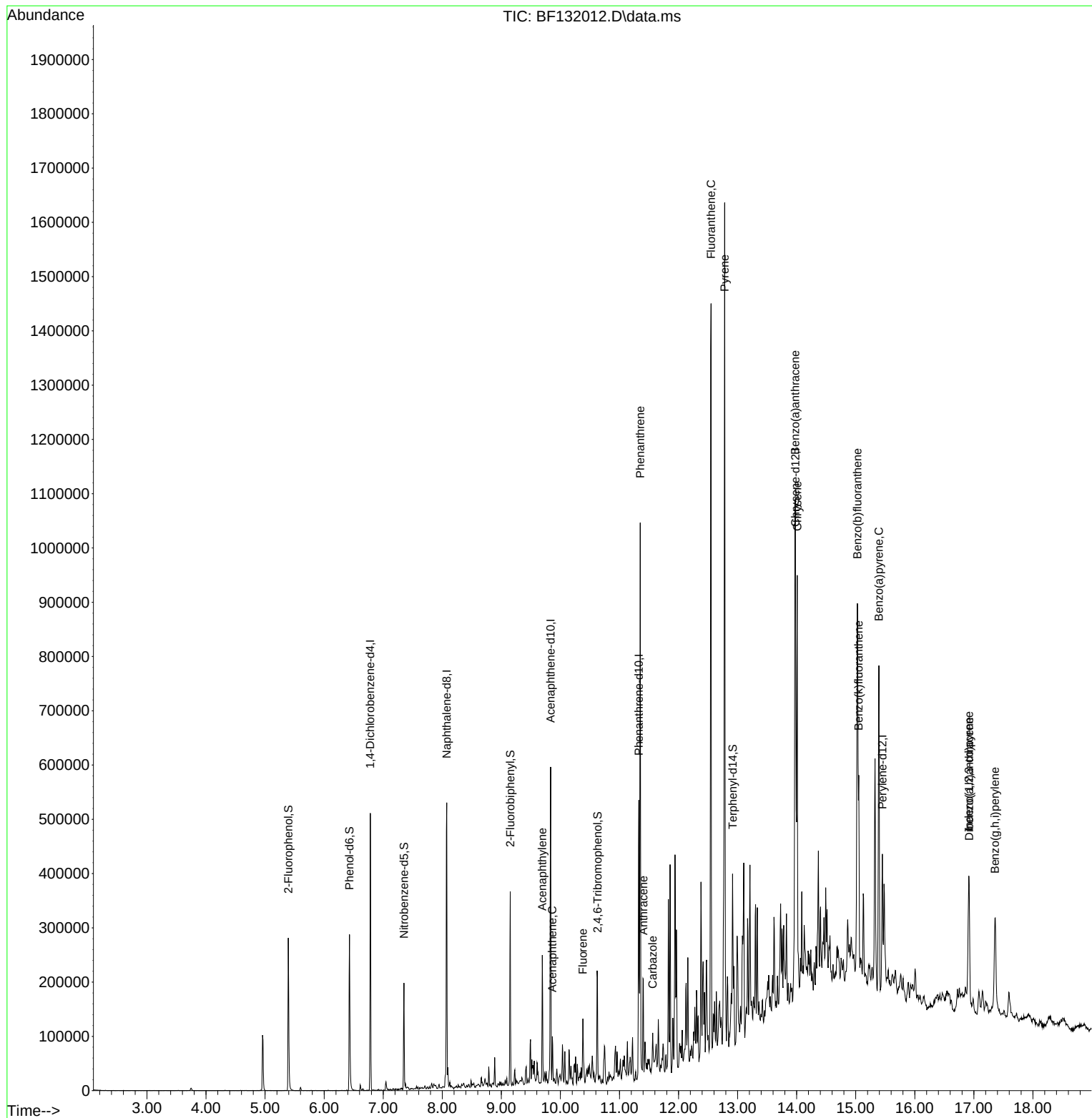
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011023\
Data File : BF132012.D
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ALS Vial : 18 Sample Multiplier: 1

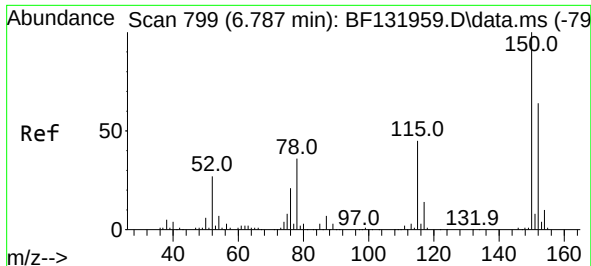
Instrument :
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Quant Time: Jan 11 00:42:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
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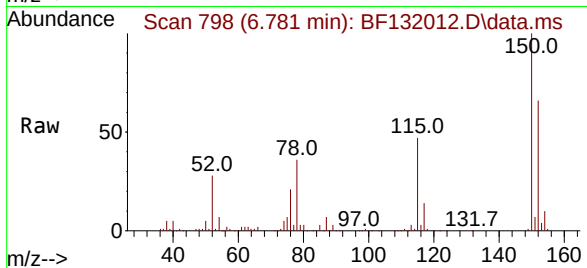
Reviewed By : Christian Giraldo 01/11/2023
Supervised By : Jagrut Upadhyay 01/11/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 799
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

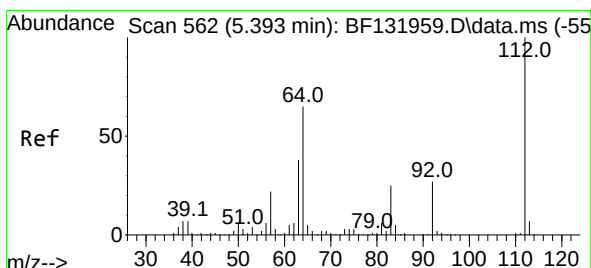
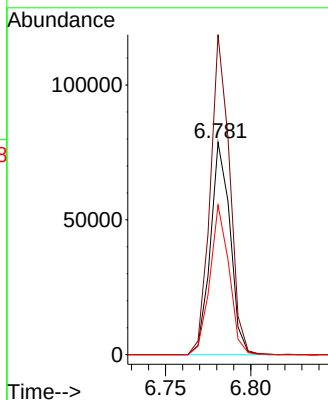
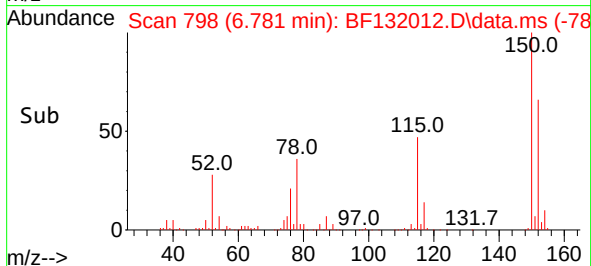
Instrument :
BNA_F
ClientSampleId :
VNJ-228



Tgt Ion:152 Resp: 63469
Ion Ratio Lower Upper
152 100
150 150.8 124.6 186.8
115 70.5 55.6 83.4

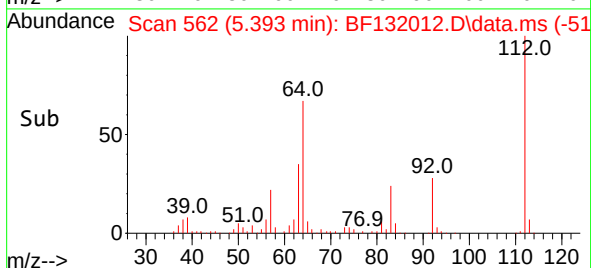
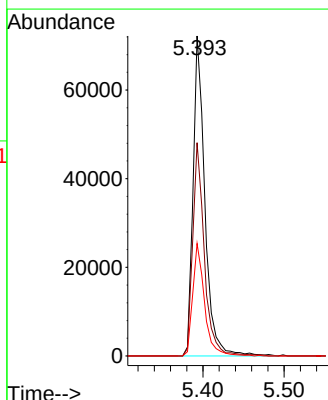
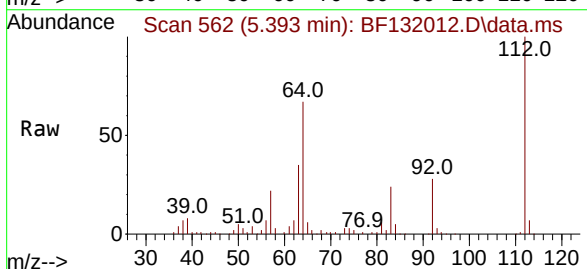
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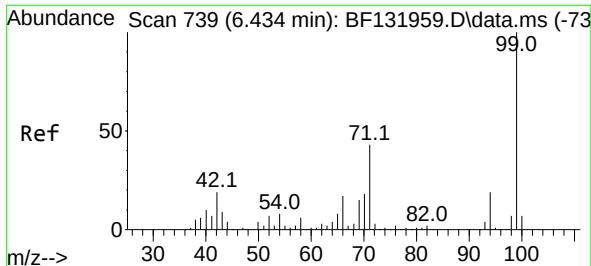
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#5
2-Fluorophenol
Concen: 19.066 ng
RT: 5.393 min Scan# 562
Delta R.T. -0.000 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Tgt Ion:112 Resp: 73437
Ion Ratio Lower Upper
112 100
64 66.7 51.9 77.9
63 35.2 30.2 45.2





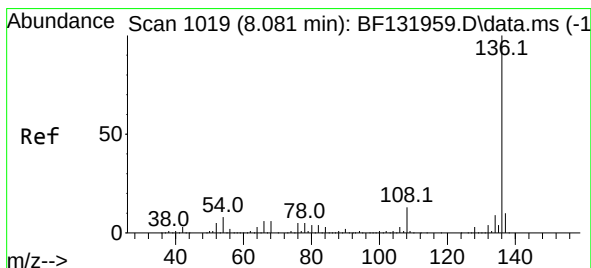
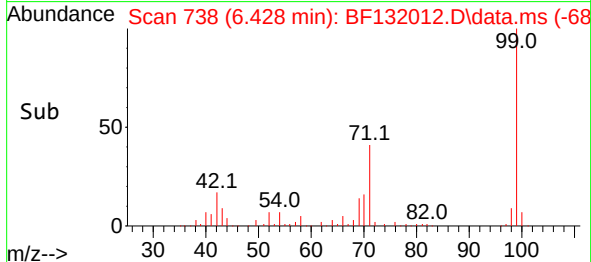
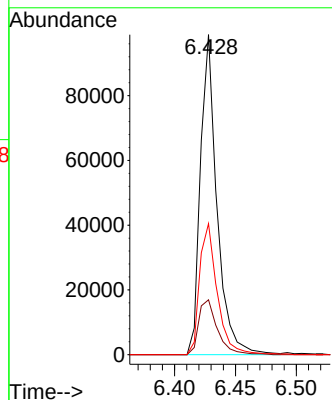
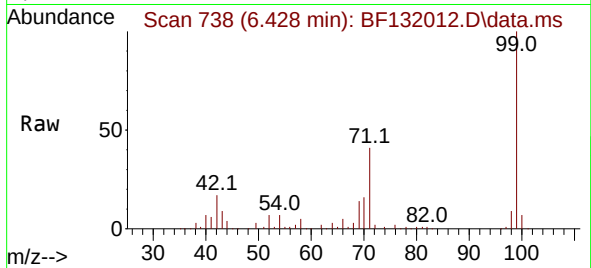
#7
Phenol-d6
Concen: 18.263 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Instrument :
BNA_F
ClientSampleId :
VNJ-228

Tgt Ion: 99 Resp: 9326
Ion Ratio Lower Upper
99 100
42 17.2 15.4 23.2
71 41.0 34.6 51.8

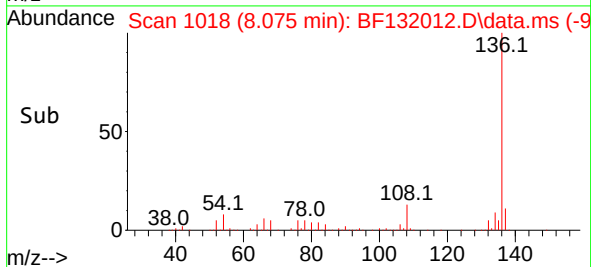
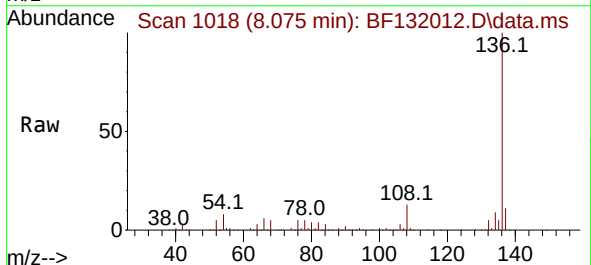
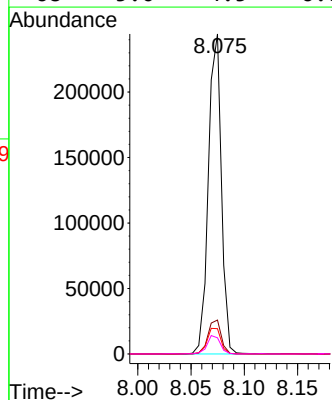
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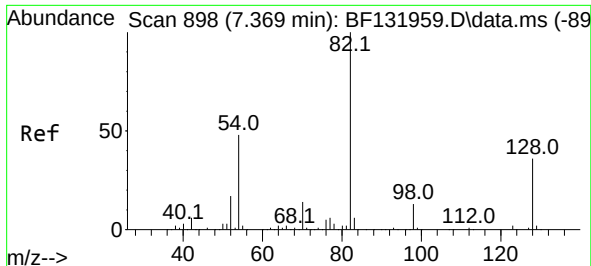
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Tgt Ion:136 Resp: 208475
Ion Ratio Lower Upper
136 100
137 10.6 8.2 12.2
54 7.9 6.6 9.8
68 5.0 4.5 6.7





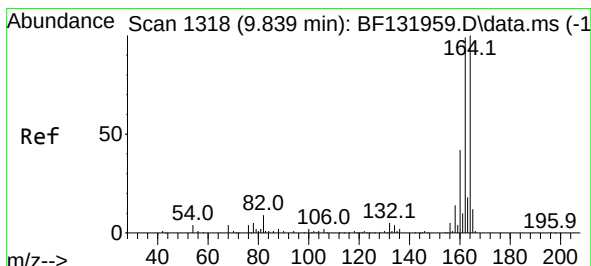
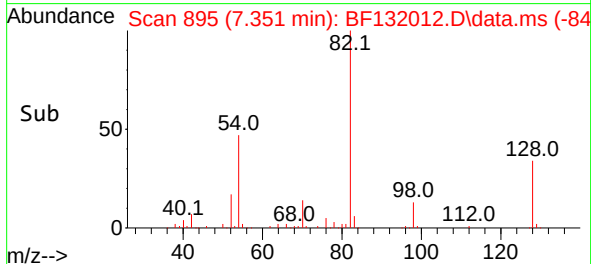
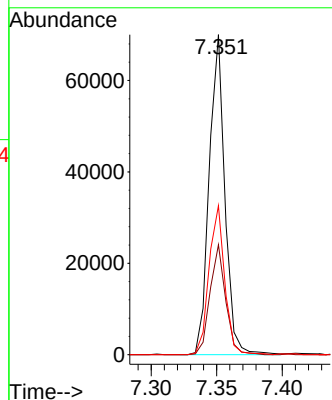
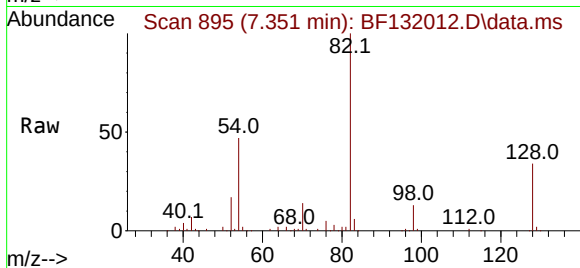
#23
Nitrobenzene-d5
Concen: 11.635 ng
RT: 7.351 min Scan# 89
Delta R.T. -0.018 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Instrument :
BNA_F
ClientSampleId :
VNJ-228

Tgt Ion: 82 Resp: 5844
Ion Ratio Lower Upper
82 100
128 34.3 28.7 43.1
54 46.6 38.1 57.1

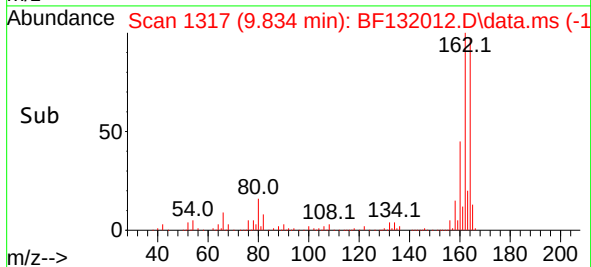
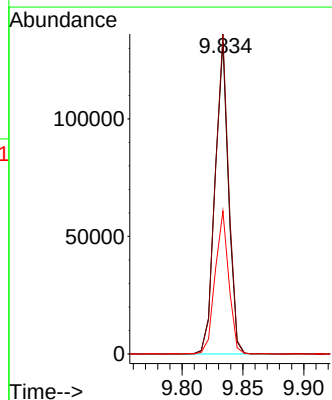
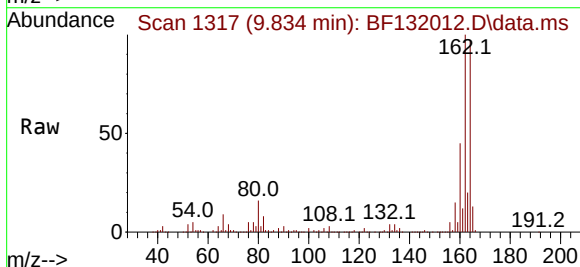
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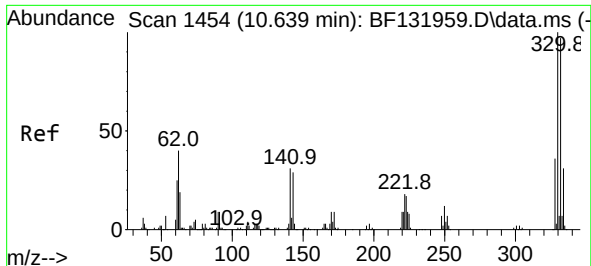
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.834 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

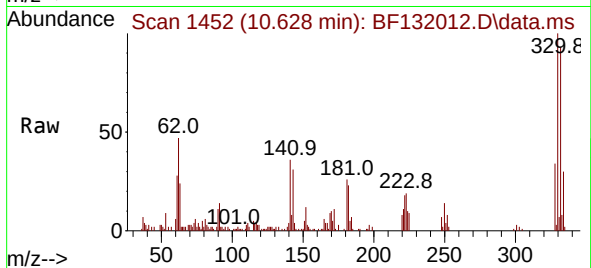
Tgt Ion:164 Resp: 101810
Ion Ratio Lower Upper
164 100
162 102.7 79.4 119.0
160 45.9 33.9 50.9





#42
2,4,6-Tribromophenol
Concen: 14.869 ng
RT: 10.628 min Scan# 1454
Delta R.T. -0.012 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

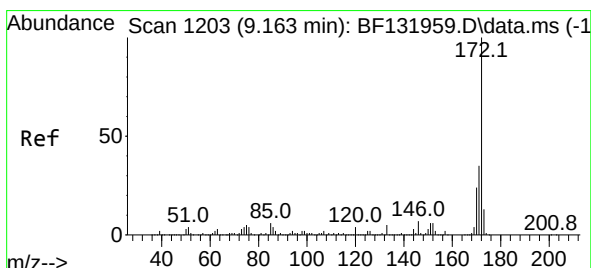
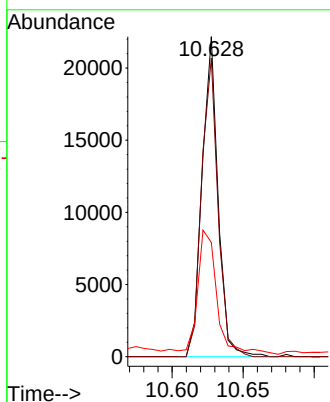
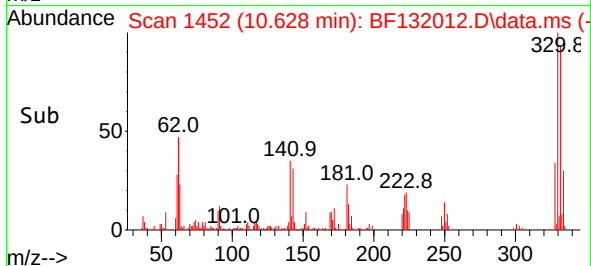
Instrument :
BNA_F
ClientSampleId :
VNJ-228



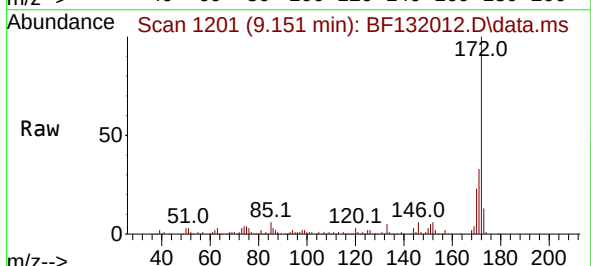
Tgt Ion: 330 Resp: 1740
Ion Ratio Lower Upper
330 100
332 95.4 76.9 115.3
141 46.8 31.3 46.9

Manual Integrations
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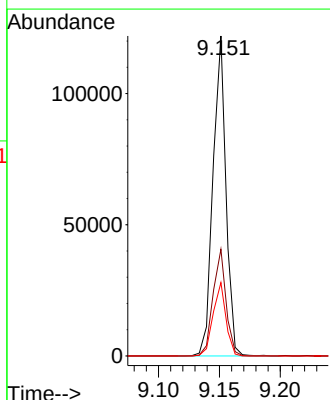
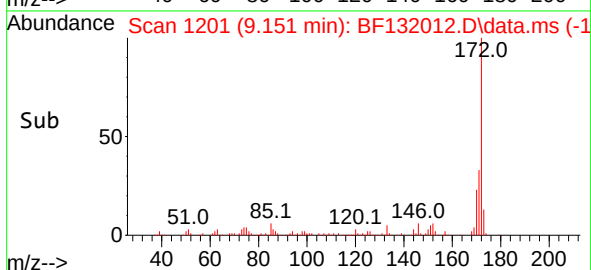
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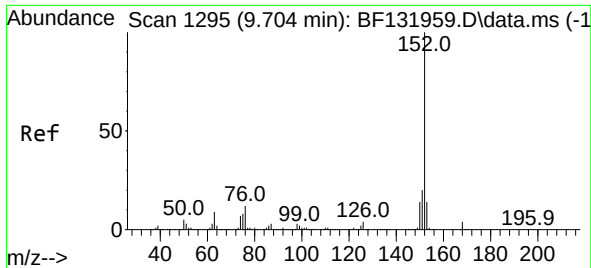


#45
2-Fluorobiphenyl
Concen: 11.993 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40



Tgt Ion: 172 Resp: 90446
Ion Ratio Lower Upper
172 100
171 33.4 28.0 42.0
170 22.9 18.9 28.3





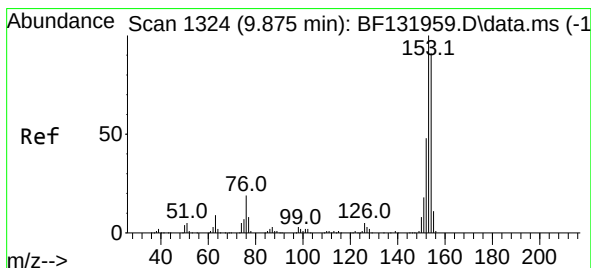
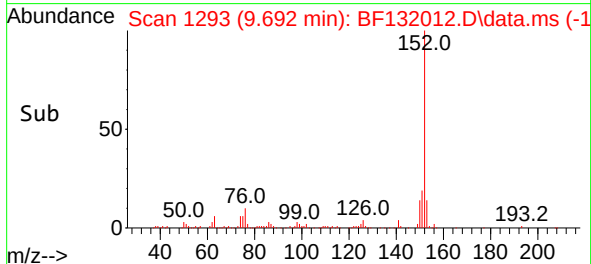
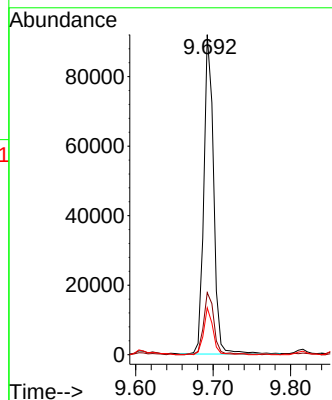
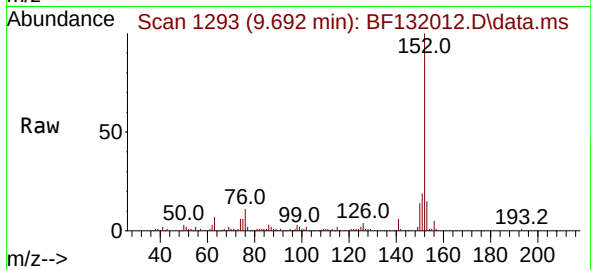
#49
Acenaphthylene
Concen: 8.519 ng
RT: 9.692 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Instrument :
BNA_F
ClientSampleId :
VNJ-228

Tgt Ion:152 Resp: 8063
Ion Ratio Lower Upper
152 100
151 19.4 16.2 24.2
153 14.6 10.8 16.2

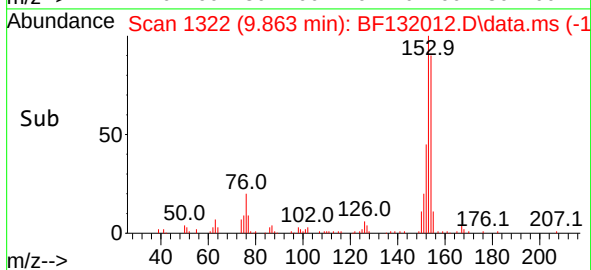
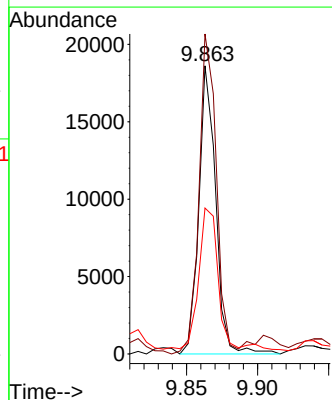
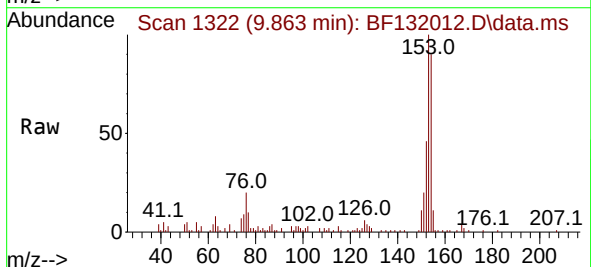
Manual Integrations
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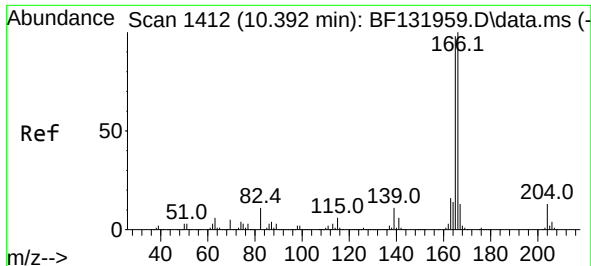
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#52
Acenaphthene
Concen: 2.709 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

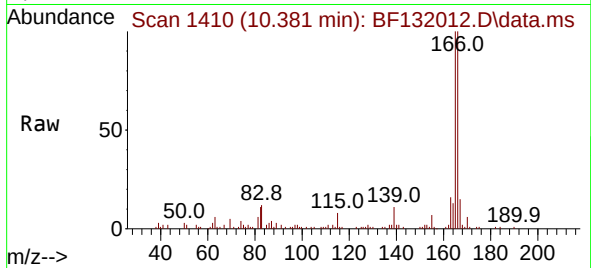
Tgt Ion:154 Resp: 15390
Ion Ratio Lower Upper
154 100
153 111.0 87.7 131.5
152 50.6 42.2 63.2





#58
Fluorene
Concen: 4.057 ng
RT: 10.381 min Scan# 1412
Delta R.T. -0.012 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

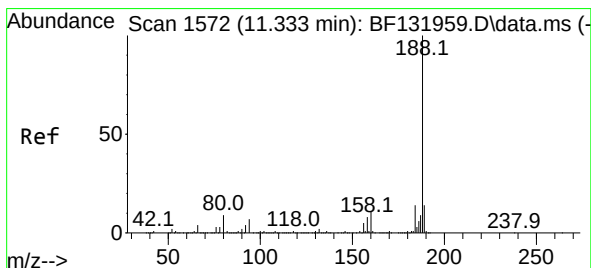
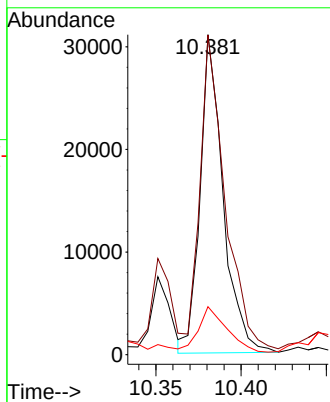
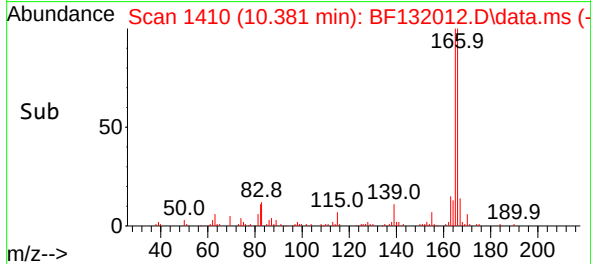
Instrument :
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VNJ-228



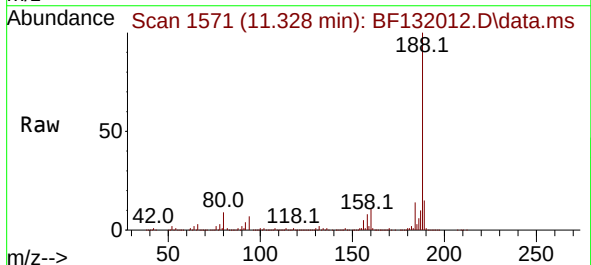
Tgt Ion:166 Resp: 29020
Ion Ratio Lower Upper
166 100
165 99.9 78.3 117.5
167 15.0 10.7 16.1

Manual Integrations
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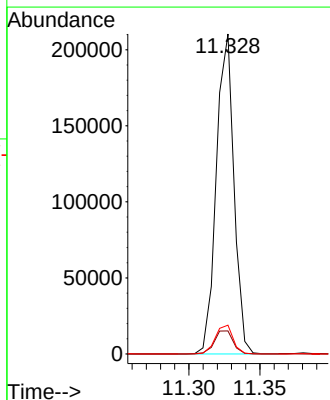
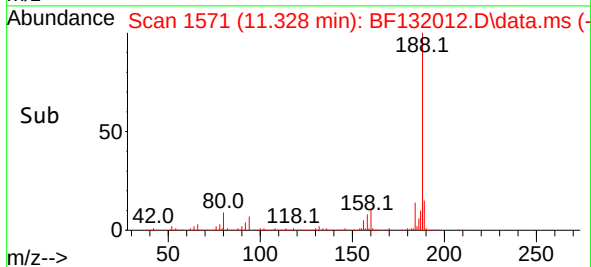
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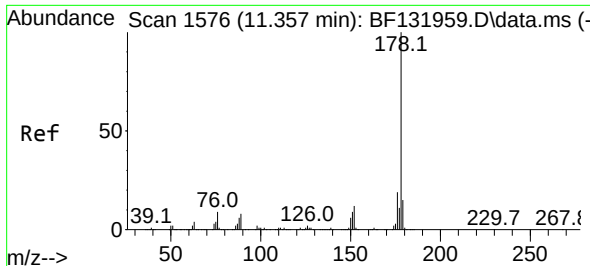


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40



Tgt Ion:188 Resp: 181426
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 9.0 7.4 11.0





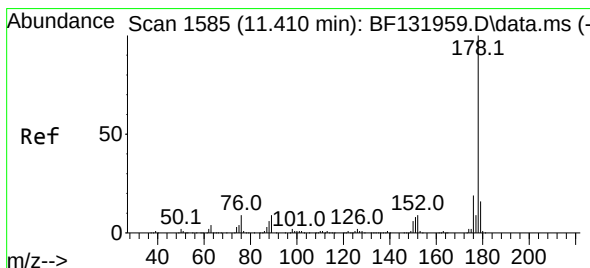
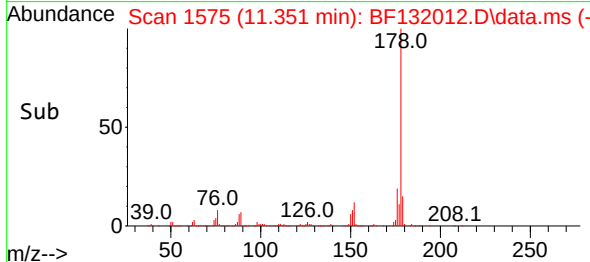
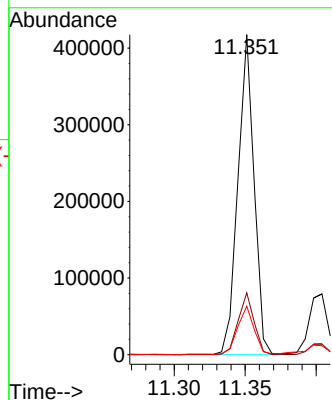
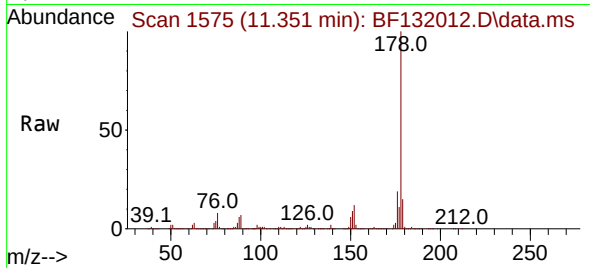
#71
Phenanthrene
Concen: 35.022 ng
RT: 11.351 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Instrument :
BNA_F
ClientSampleId :
VNJ-228

Tgt Ion:178 Resp: 331228
Ion Ratio Lower Upper
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176 19.4 15.5 23.3
179 15.2 12.4 18.6

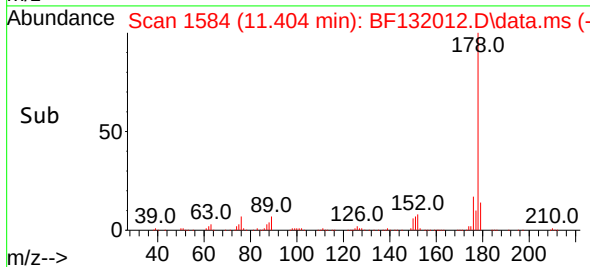
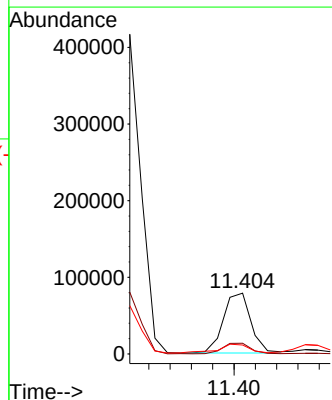
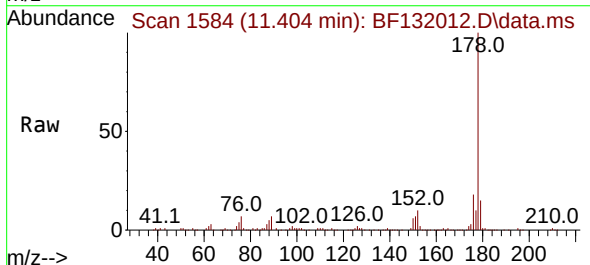
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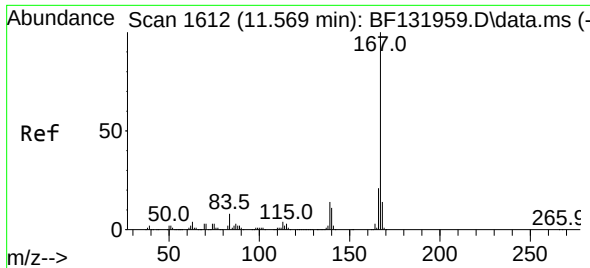
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#72
Anthracene
Concen: 7.222 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

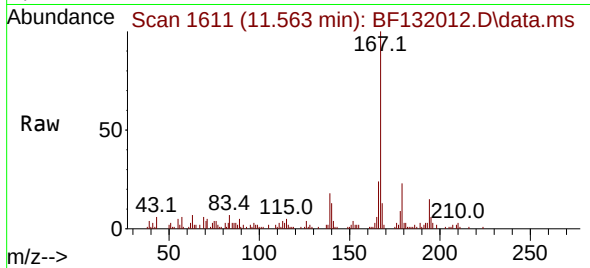
Tgt Ion:178 Resp: 70317
Ion Ratio Lower Upper
178 100
176 17.8 15.3 22.9
179 14.7 12.6 19.0





#73
 Carbazole
 Concen: 2.402 ng
 RT: 11.563 min Scan# 1611
 Delta R.T. -0.006 min
 Lab File: BF132012.D
 Acq: 10 Jan 2023 23:40

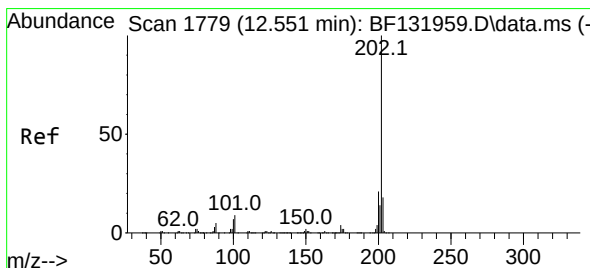
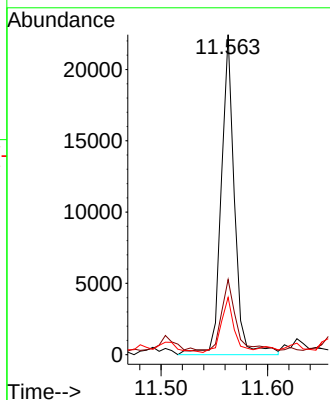
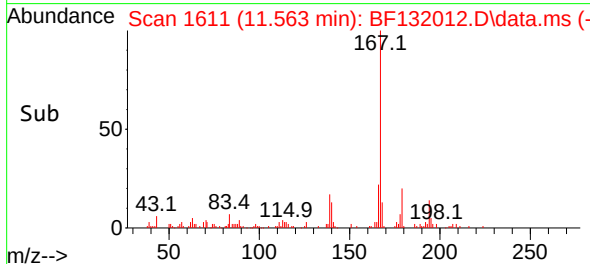
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-228



Tgt Ion:167 Resp: 1936
 Ion Ratio Lower Upper
 167 100
 166 23.5 16.8 25.2
 139 17.9 11.1 16.7

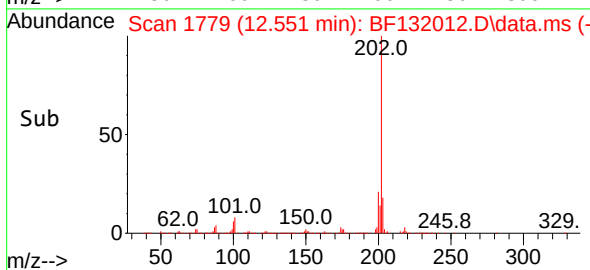
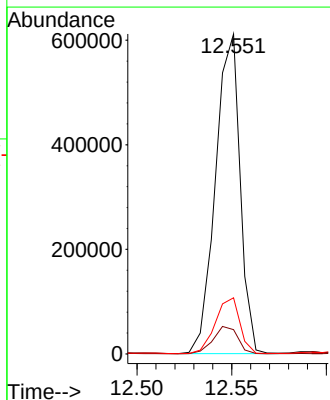
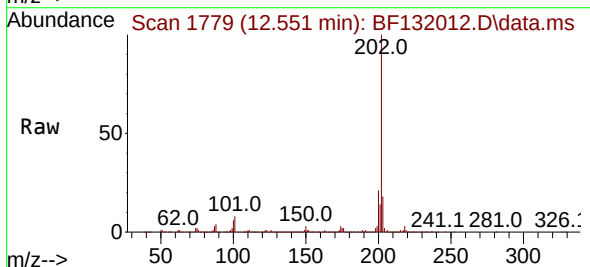
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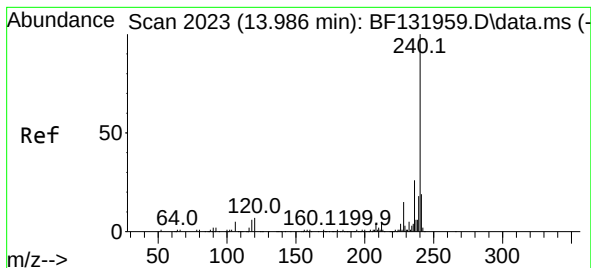
Reviewed By :Christian Giraldo 01/11/2023
 Supervised By :Jagrut Upadhyay 01/11/2023



#75
 Fluoranthene
 Concen: 51.943 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.000 min
 Lab File: BF132012.D
 Acq: 10 Jan 2023 23:40

Tgt Ion:202 Resp: 552500
 Ion Ratio Lower Upper
 202 100
 101 7.6 0.0 28.8
 203 17.5 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.980 min Scan# 2023

Delta R.T. -0.006 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

Instrument :

BNA_F

ClientSampleId :

VNJ-228

Tgt Ion:240 Resp: 135919

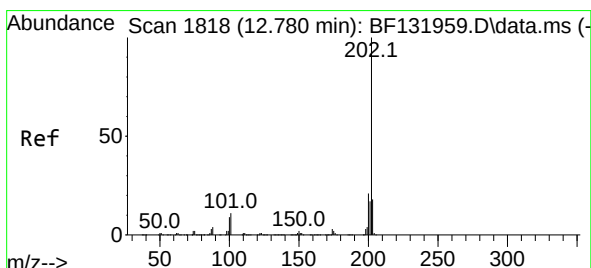
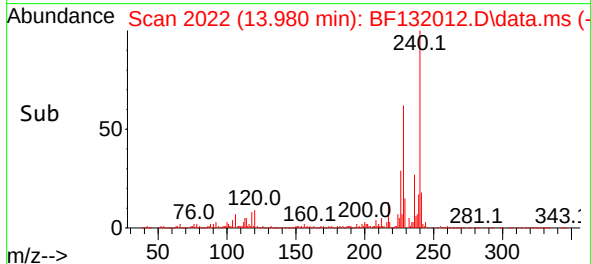
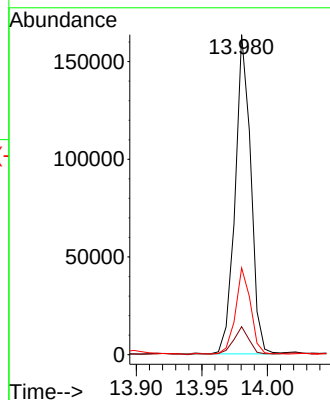
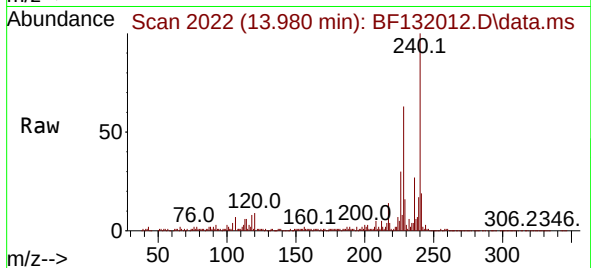
Ion	Ratio	Lower	Upper
240	100		
120	8.8	5.4	8.0
236	27.1	21.1	31.7

Manual Integrations

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Reviewed By :Christian Giraldo 01/11/2023

Supervised By :Jagrut Upadhyay 01/11/2023



#78

Pyrene

Concen: 48.300 ng

RT: 12.780 min Scan# 1818

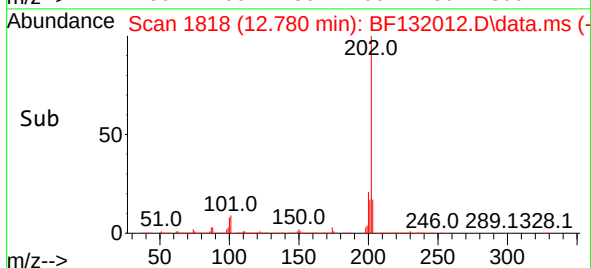
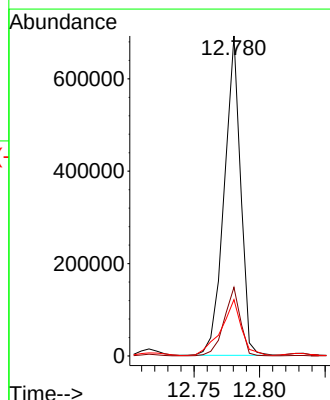
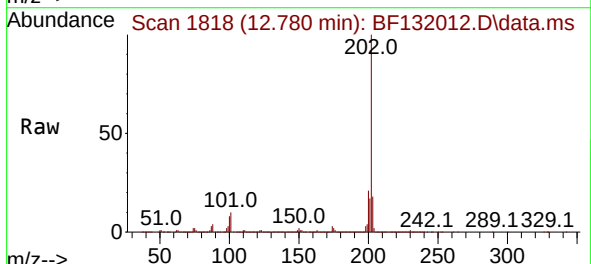
Delta R.T. -0.000 min

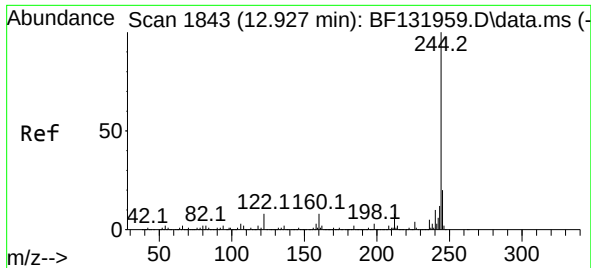
Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

Tgt Ion:202 Resp: 598754

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.6	14.1	21.1





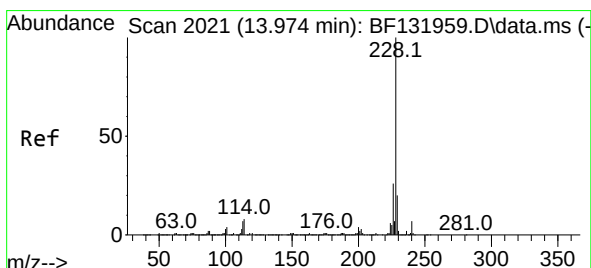
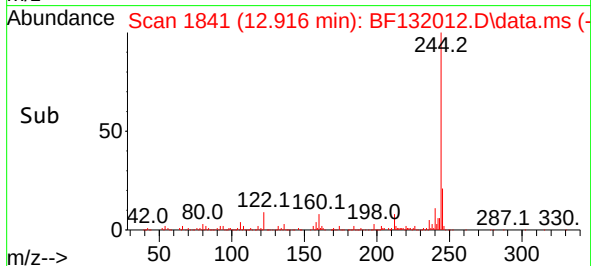
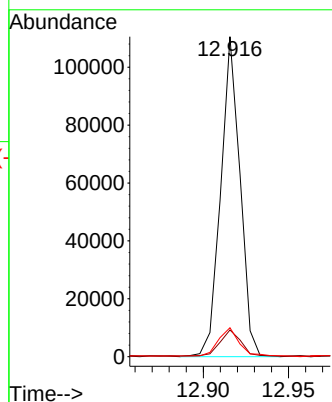
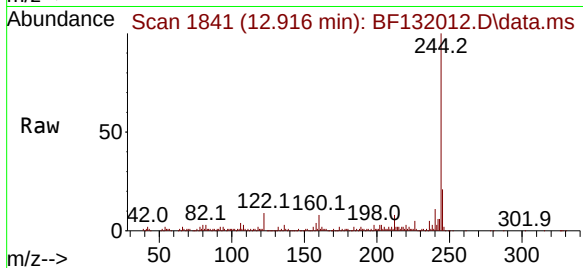
#79
 Terphenyl-d14
 Concen: 9.193 ng
 RT: 12.916 min Scan# 1841
 Delta R.T. -0.012 min
 Lab File: BF132012.D
 Acq: 10 Jan 2023 23:40

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-228

Tgt Ion:244 Resp: 8718
 Ion Ratio Lower Upper
 244 100
 212 8.4 6.3 9.5
 122 9.1 6.8 10.2

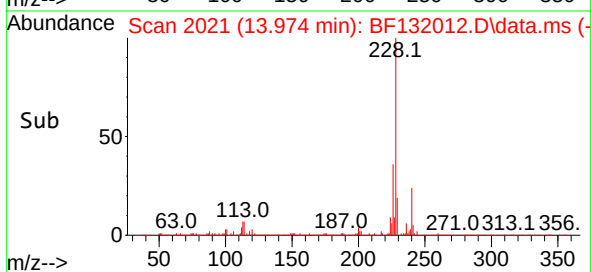
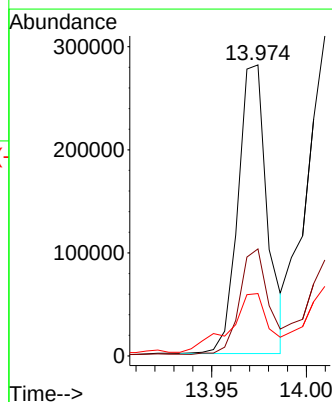
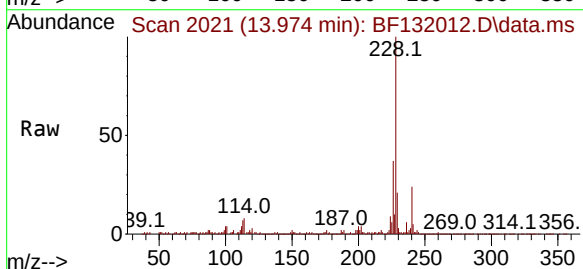
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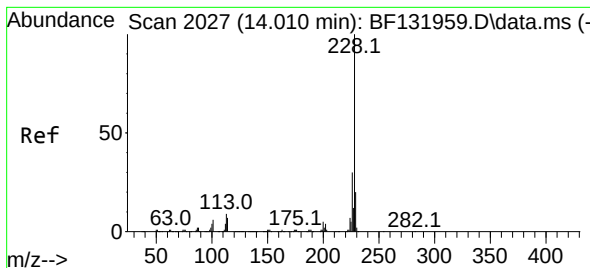
Reviewed By :Christian Giraldo 01/11/2023
 Supervised By :Jagrut Upadhyay 01/11/2023



#81
 Benzo(a)anthracene
 Concen: 30.602 ng m
 RT: 13.974 min Scan# 2021
 Delta R.T. -0.000 min
 Lab File: BF132012.D
 Acq: 10 Jan 2023 23:40

Tgt Ion:228 Resp: 302605
 Ion Ratio Lower Upper
 228 100
 226 36.8 21.0 31.4#
 229 21.4 15.8 23.6





#83

Chrysene

Concen: 32.942 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.000 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

Instrument :

BNA_F

ClientSampleId :

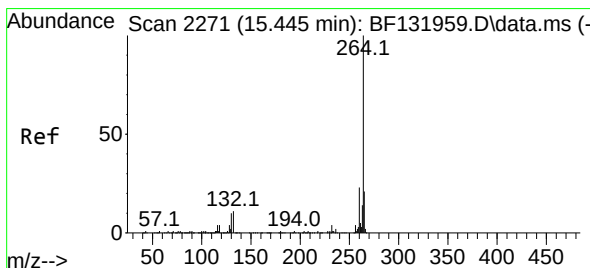
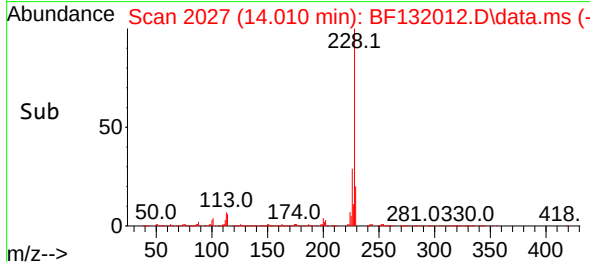
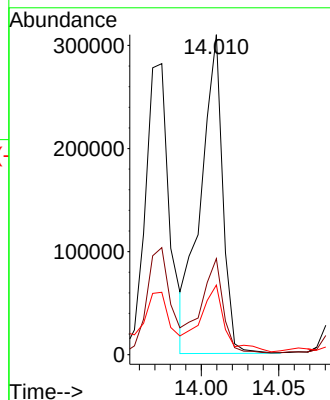
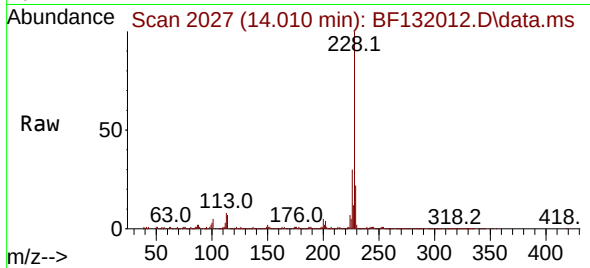
VNJ-228

Tgt	Ion:228	Resp:	304430
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	21.8	16.2	24.4

Manual Integrations

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Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#86

Perylene-d12

Concen: 20.000 ng

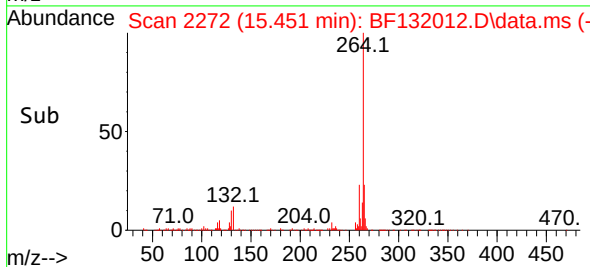
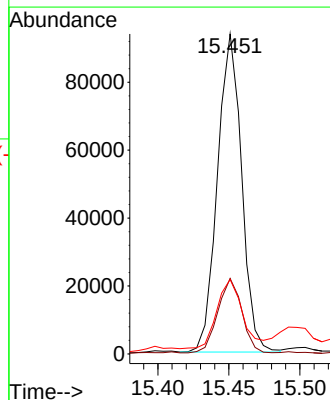
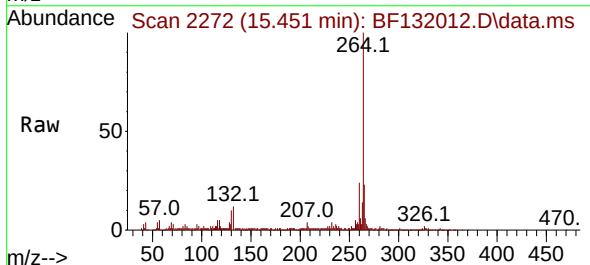
RT: 15.451 min Scan# 2272

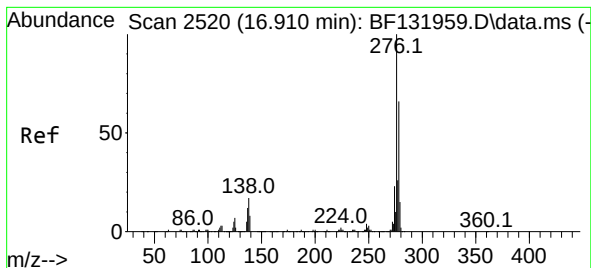
Delta R.T. 0.006 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

Tgt	Ion:264	Resp:	110768
Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.3	27.5
265	23.3	16.9	25.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 23.184 ng

RT: 16.915 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

Instrument :

BNA_F

ClientSampleId :

VNJ-228

Tgt Ion:276 Resp: 157499

Ion Ratio Lower Upper

276 100

138 15.2 14.2 21.2

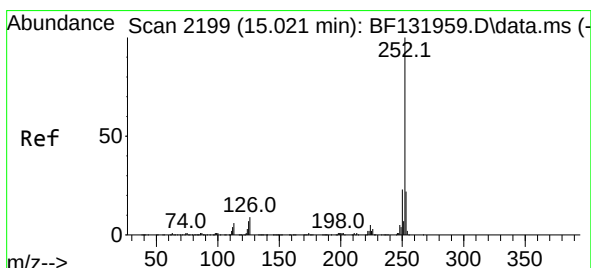
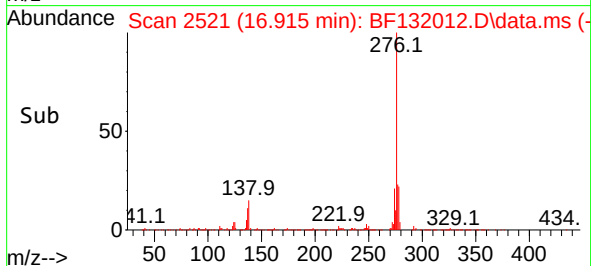
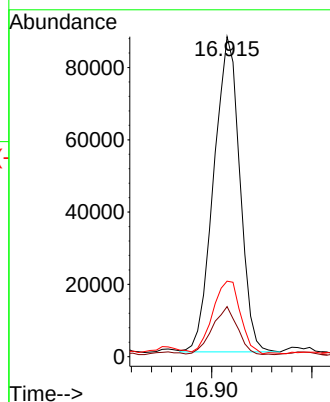
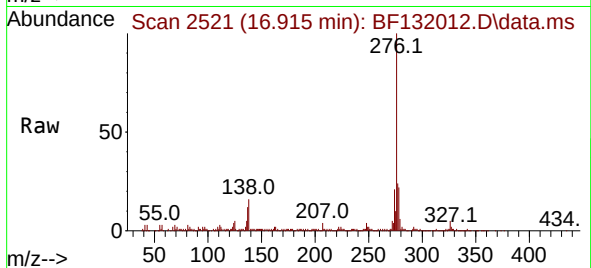
277 24.6 20.2 30.4

Manual Integrations

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Reviewed By :Christian Giraldo 01/11/2023

Supervised By :Jagrut Upadhyay 01/11/2023



#88

Benzo(b)fluoranthene

Concen: 57.661 ng m

RT: 15.027 min Scan# 2200

Delta R.T. 0.006 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

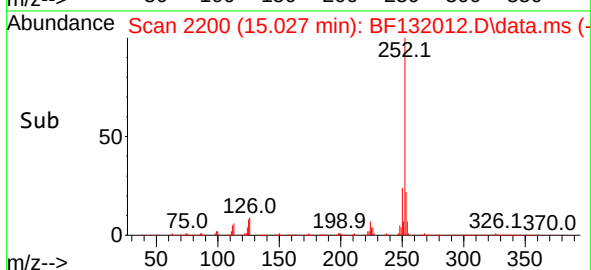
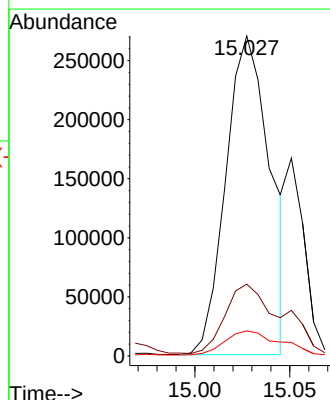
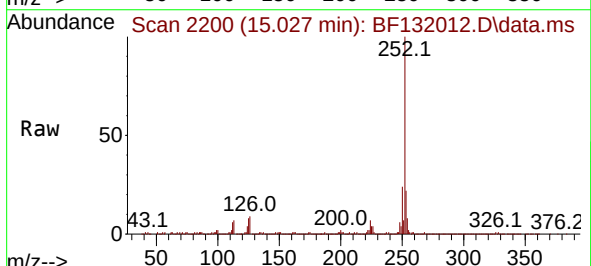
Tgt Ion:252 Resp: 438071

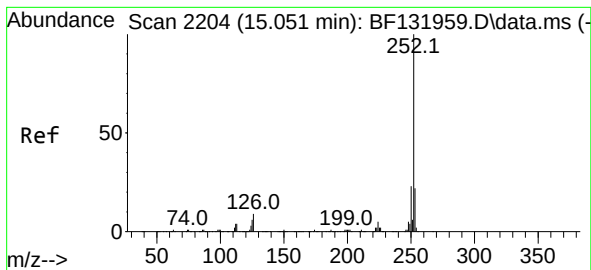
Ion Ratio Lower Upper

252 100

253 22.5 18.0 27.0

125 7.9 5.8 8.6





#89

Benzo(k)fluoranthene

Concen: 14.163 ng m

RT: 15.051 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

Instrument :

BNA_F

ClientSampleId :

VNJ-228

Tgt Ion:252 Resp: 10738

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

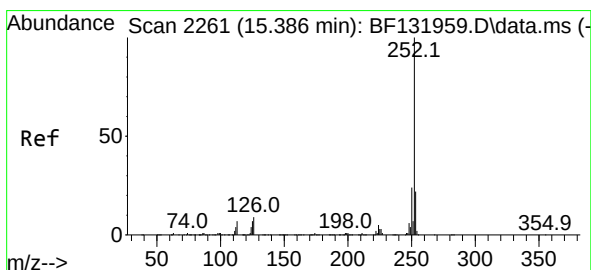
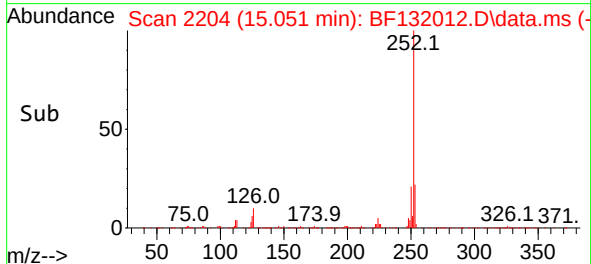
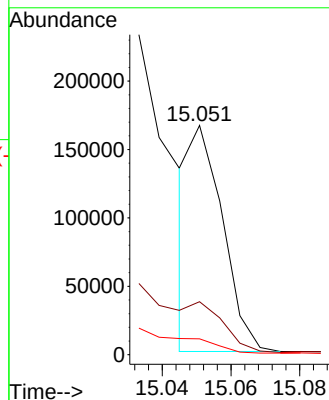
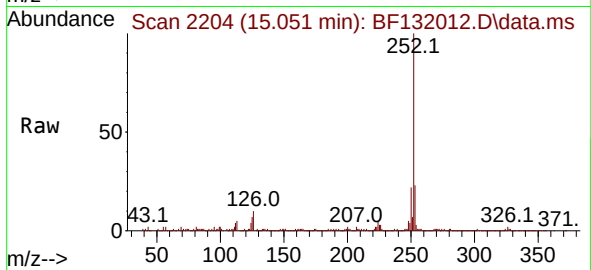
125 6.9 5.2 7.8

Manual Integrations

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Reviewed By :Christian Giraldo 01/11/2023

Supervised By :Jagrut Upadhyay 01/11/2023



#90

Benzo(a)pyrene

Concen: 41.334 ng

RT: 15.392 min Scan# 2262

Delta R.T. 0.006 min

Lab File: BF132012.D

Acq: 10 Jan 2023 23:40

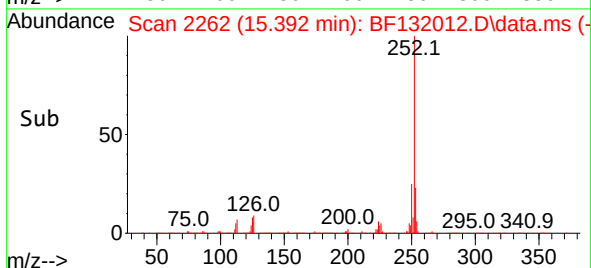
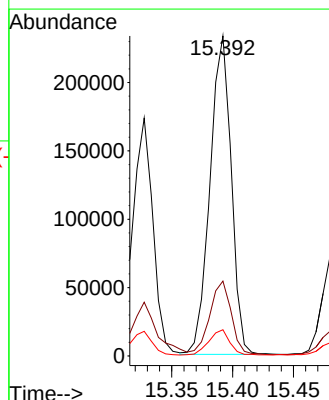
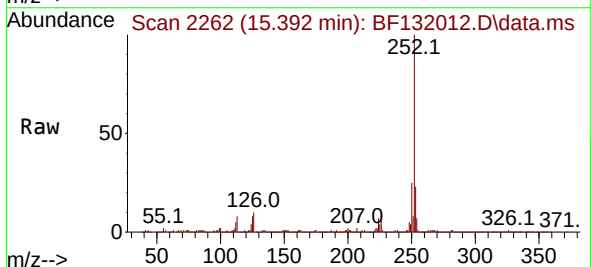
Tgt Ion:252 Resp: 282934

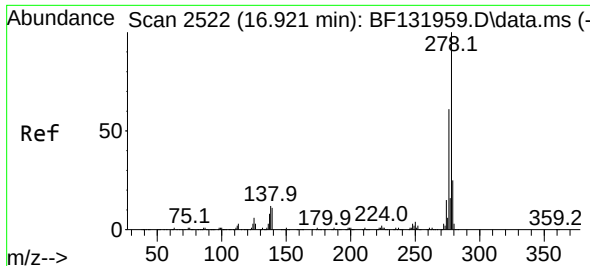
Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

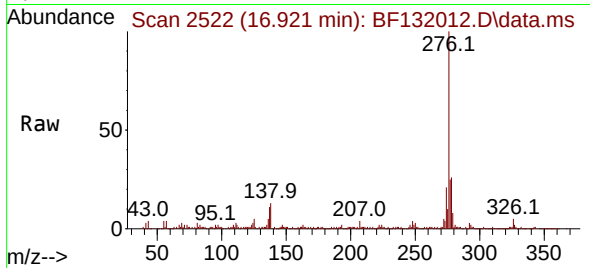
125 8.2 5.7 8.5





#91
Dibenzo(a,h)anthracene
Concen: 7.396 ng m
RT: 16.921 min Scan# 2522
Delta R.T. -0.000 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

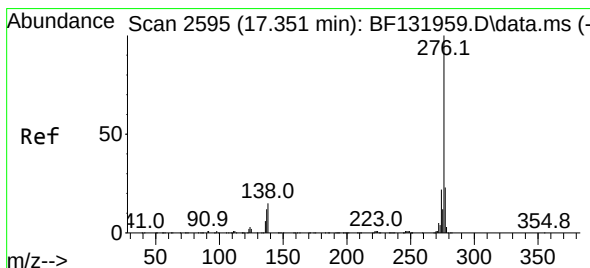
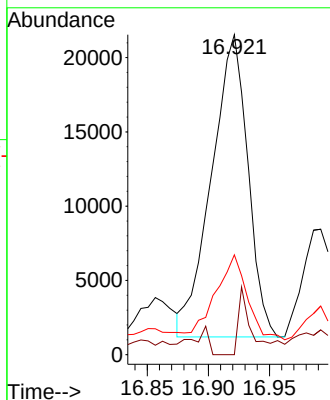
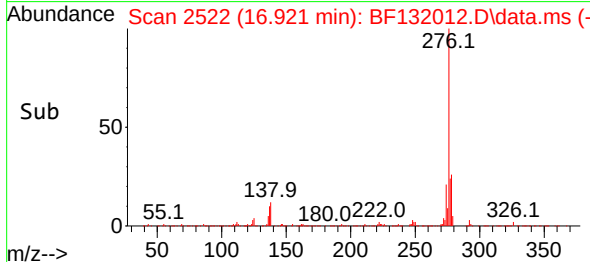
Instrument :
BNA_F
ClientSampleId :
VNJ-228



Tgt Ion:278 Resp: 42119
Ion Ratio Lower Upper
278 100
139 0.0 8.8 13.2
279 31.2 19.8 29.6

Manual Integrations
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Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#92
Benzo(g,h,i)perylene
Concen: 25.844 ng
RT: 17.357 min Scan# 2596
Delta R.T. 0.006 min
Lab File: BF132012.D
Acq: 10 Jan 2023 23:40

Tgt Ion:276 Resp: 146883
Ion Ratio Lower Upper
276 100
277 26.0 18.2 27.2
138 16.4 11.7 17.5

