

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051523\
 Data File : BF133391.D
 Acq On : 15 May 2023 19:23
 Operator : CG\JU
 Sample : 02770-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHRT-25990

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/16/2023
 Supervised By : Yogesh Patel 05/16/2023

Quant Time: May 16 03:14:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 11 16:40:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.716	152	151997	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	542739	20.000	ng	0.00
39) Acenaphthene-d10	9.763	164	207195	20.000	ng	0.00
64) Phenanthrene-d10	11.286	188	115254m	20.000	ng	0.05
76) Chrysene-d12	13.898	240	352489	20.000	ng	0.02
86) Perylene-d12	15.309	264	323540	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.322	112	619827	61.601	ng	0.00
7) Phenol-d6	6.357	99	714689	57.226	ng	-0.01
23) Nitrobenzene-d5	7.281	82	400273	39.808	ng	-0.01
42) 2,4,6-Tribromophenol	10.569	330	91654	43.985	ng	0.02
45) 2-Fluorobiphenyl	9.080	172	671198	54.196	ng	0.00
79) Terphenyl-d14	12.874	244	530668	25.965	ng	0.05
Target Compounds						Qvalue
49) Acenaphthylene	9.622	152	135433	7.048	ng	# 68
52) Acenaphthene	9.792	154	60040	4.665	ng	# 91
58) Fluorene	10.316	166	73904	5.746	ng	# 70
71) Phenanthrene	11.316	178	358682	57.903	ng	# 79
72) Anthracene	11.368	178	108152m	17.060	ng	
75) Fluoranthene	12.527	202	1072603	172.529	ng	94
78) Pyrene	12.751	202	1419233	46.969	ng	98
81) Benzo(a)anthracene	13.886	228	1685489	69.535	ng	97
83) Chrysene	13.927	228	1509527	62.291	ng	98
87) Indeno(1,2,3-cd)pyrene	16.692	276	829214	45.057	ng	94
88) Benzo(b)fluoranthene	14.909	252	1668641m	81.068	ng	
89) Benzo(k)fluoranthene	14.933	252	628681m	30.812	ng	
90) Benzo(a)pyrene	15.256	252	1277623	68.194	ng	99
91) Dibenzo(a,h)anthracene	16.698	278	191700	12.489	ng	91
92) Benzo(g,h,i)perylene	17.109	276	804204	53.069	ng	99

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

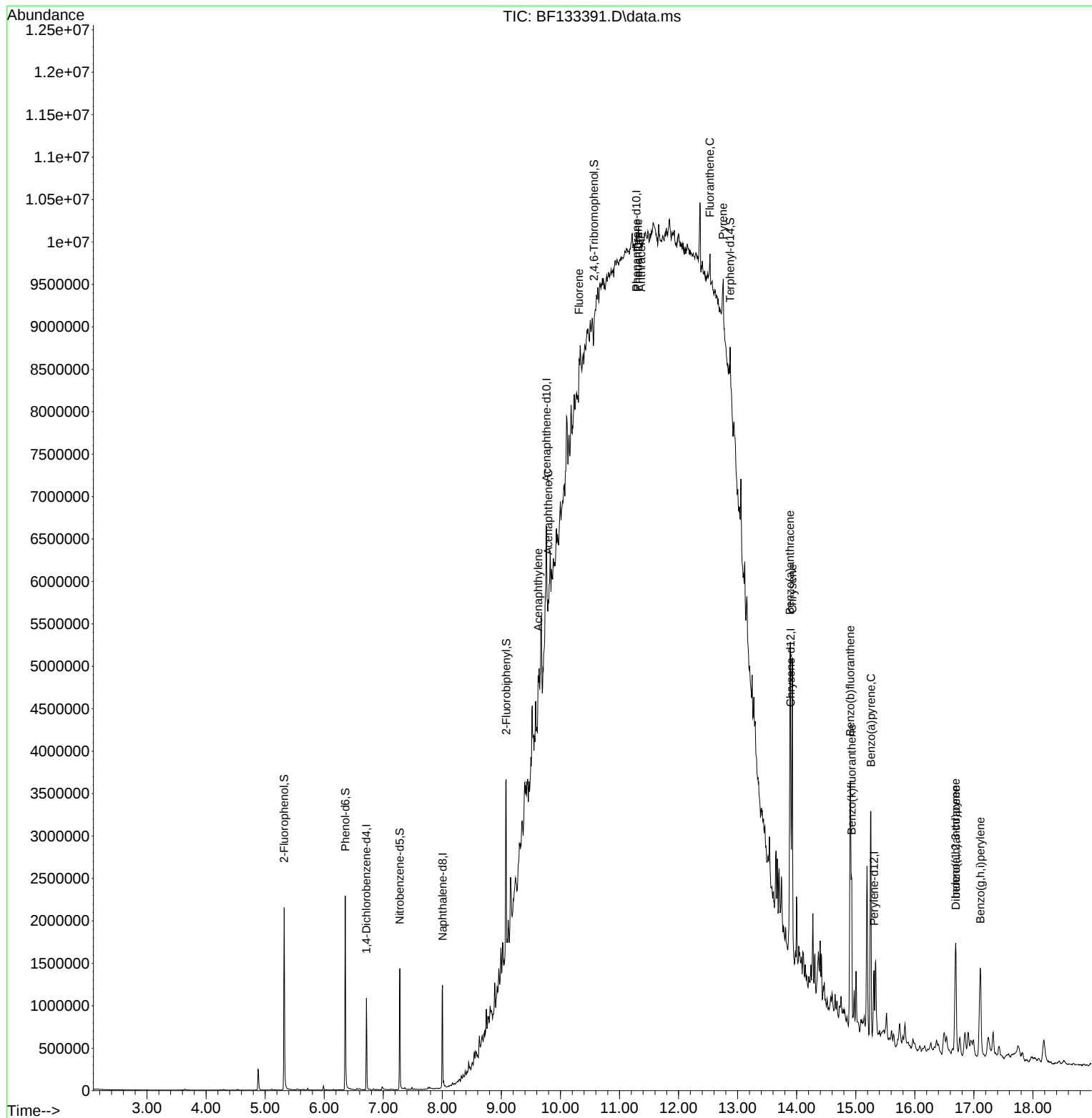
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051523\
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
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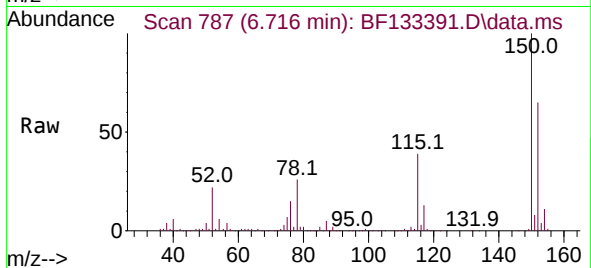
Reviewed By : Christian Giraldo 05/16/2023
Supervised By : Yogesh Patel 05/16/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

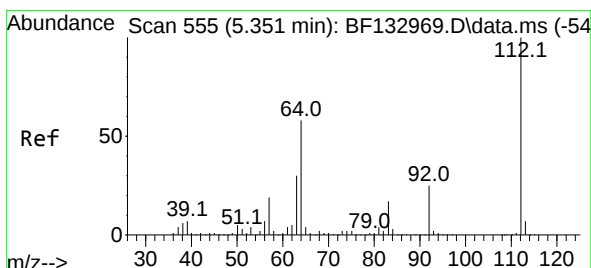
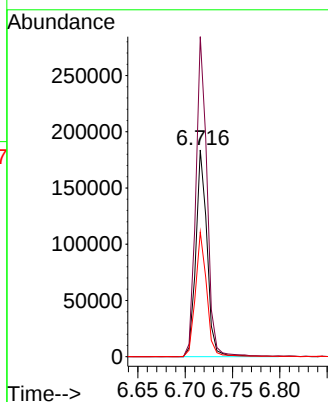
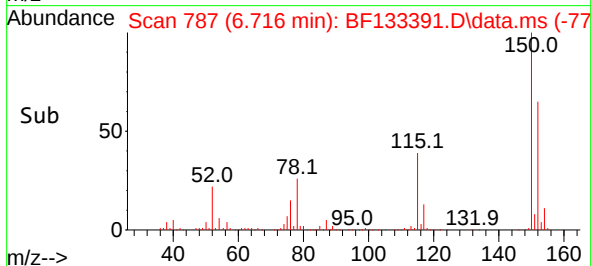
Instrument :
BNA_F
ClientSampleId :
CHRT-25990



Tgt Ion:152 Resp: 15199
Ion Ratio Lower Upper
152 100
150 154.8 124.8 187.2
115 60.3 49.9 74.9

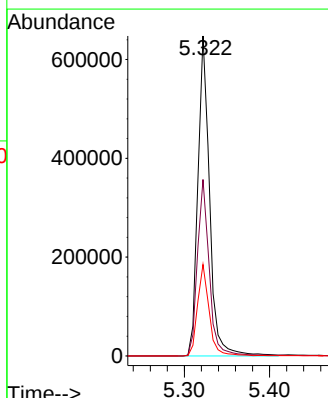
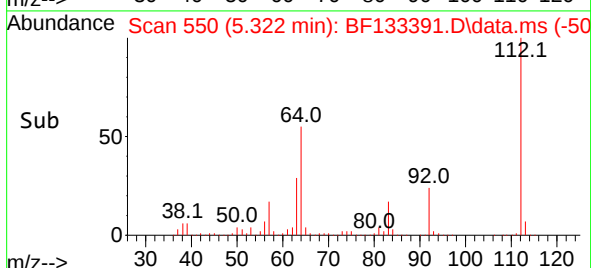
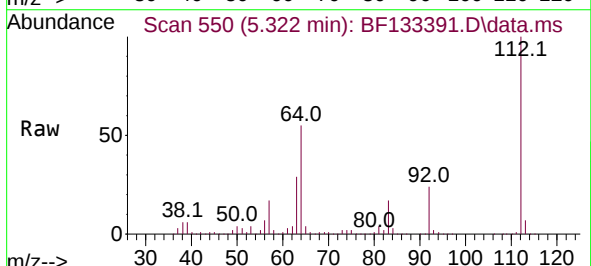
Manual Integrations
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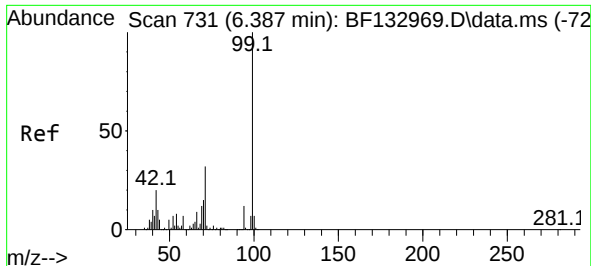
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#5
2-Fluorophenol
Concen: 61.601 ng
RT: 5.322 min Scan# 550
Delta R.T. -0.006 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Tgt Ion:112 Resp: 619827
Ion Ratio Lower Upper
112 100
64 55.2 46.8 70.2
63 28.6 23.8 35.8





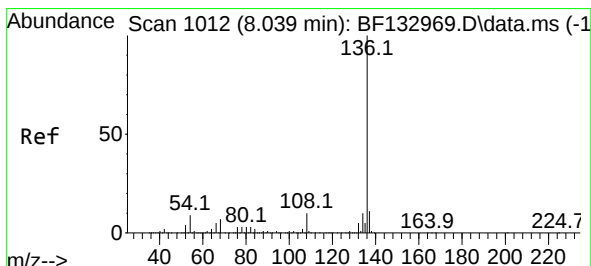
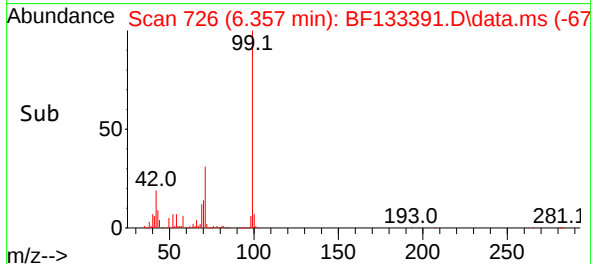
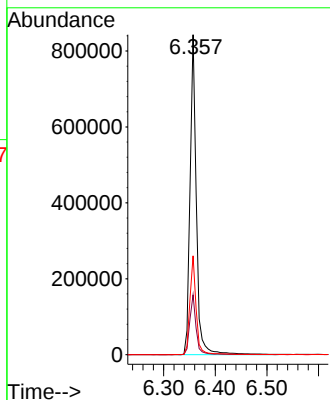
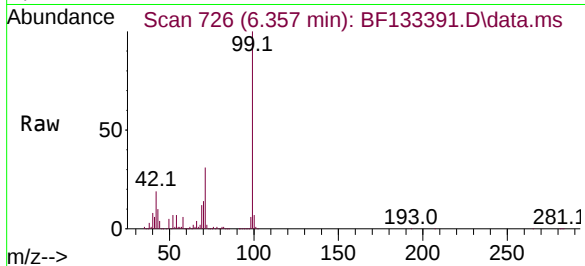
#7
Phenol-d6
Concen: 57.226 ng
RT: 6.357 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Instrument :
BNA_F
ClientSampleId :
CHRT-25990

Tgt Ion: 99 Resp: 714689
Ion Ratio Lower Upper
99 100
42 18.7 16.3 24.5
71 30.9 25.6 38.4

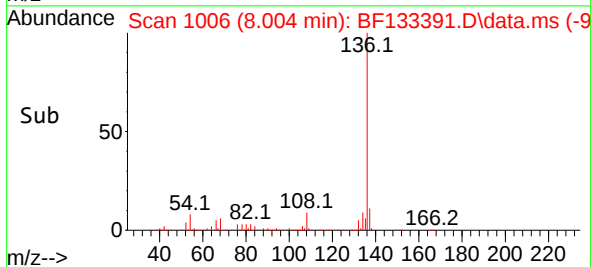
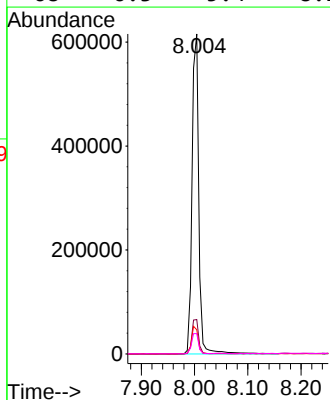
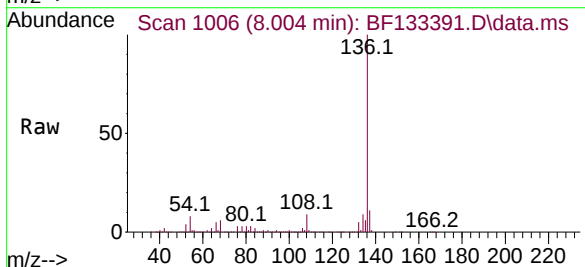
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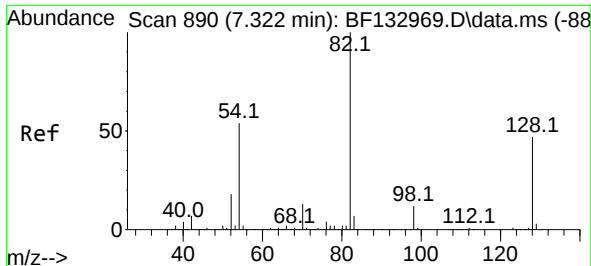
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.004 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Tgt Ion:136 Resp: 542739
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 7.6 7.0 10.4
68 6.3 5.4 8.2





#23

Nitrobenzene-d5

Concen: 39.808 ng

RT: 7.281 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

CHRT-25990

Tgt Ion: 82 Resp: 40027

Ion Ratio Lower Upper

82 100

128 48.2 37.7 56.5

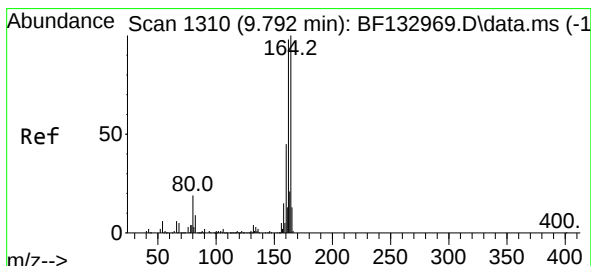
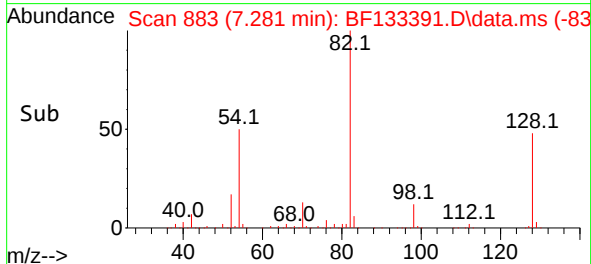
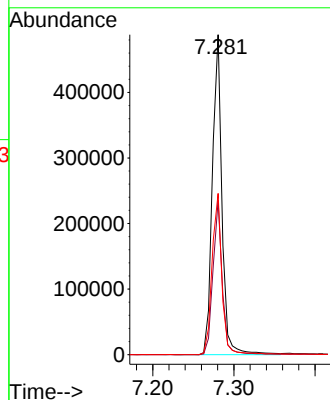
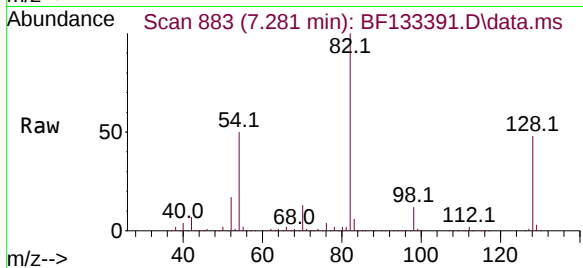
54 50.4 43.0 64.4

Manual Integrations

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Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.763 min Scan# 1305

Delta R.T. 0.006 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

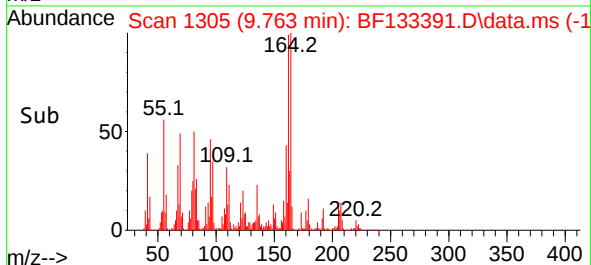
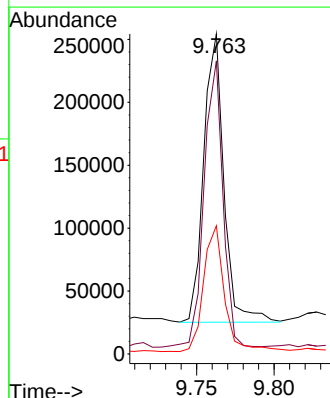
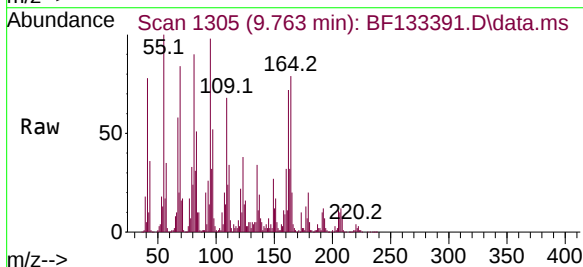
Tgt Ion:164 Resp: 207195

Ion Ratio Lower Upper

164 100

162 91.6 78.7 118.1

160 40.1 35.8 53.6





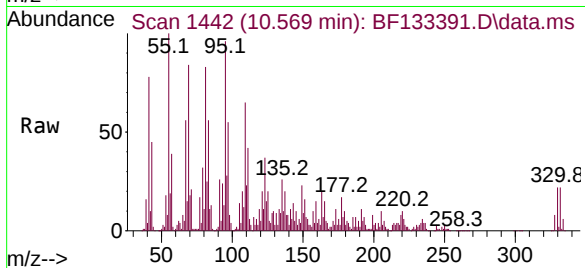
#42
 2,4,6-Tribromophenol
 Concen: 43.985 ng
 RT: 10.569 min Scan# 1444
 Delta R.T. 0.018 min
 Lab File: BF133391.D
 Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

CHRT-25990

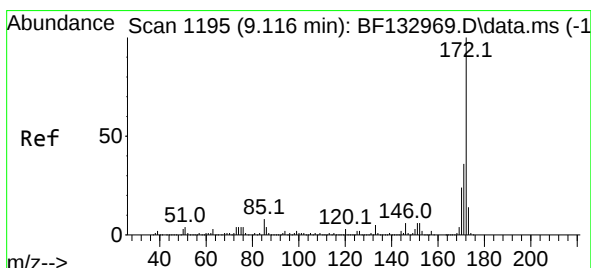
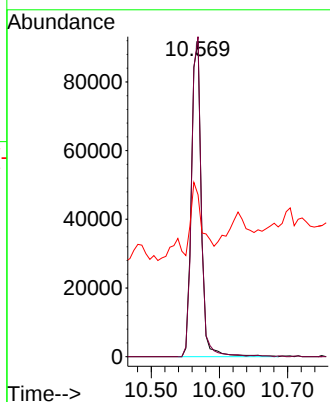
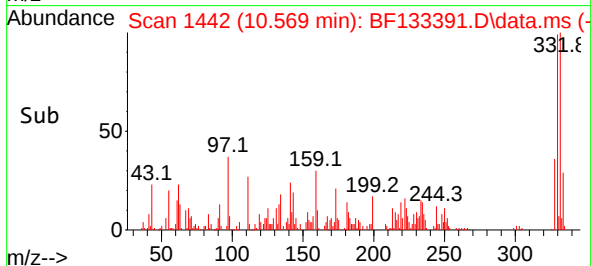


Tgt Ion:330 Resp: 91654
 Ion Ratio Lower Upper
 330 100
 332 99.1 77.1 115.7
 141 26.1 25.8 38.8

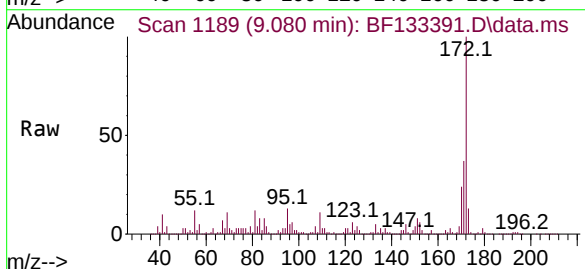
Manual Integrations

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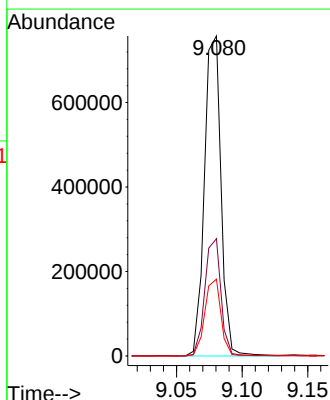
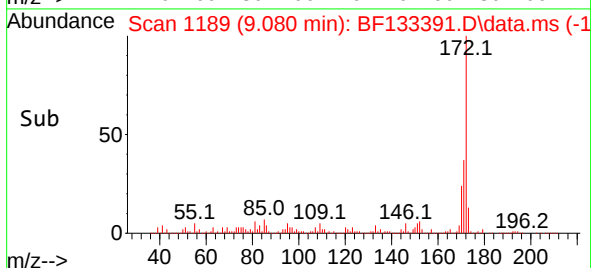
Reviewed By :Christian Giraldo 05/16/2023
 Supervised By :Yogesh Patel 05/16/2023

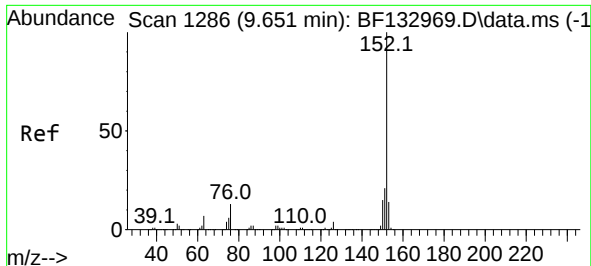


#45
 2-Fluorobiphenyl
 Concen: 54.196 ng
 RT: 9.080 min Scan# 1189
 Delta R.T. -0.006 min
 Lab File: BF133391.D
 Acq: 15 May 2023 19:23



Tgt Ion:172 Resp: 671198
 Ion Ratio Lower Upper
 172 100
 171 36.7 28.8 43.2
 170 24.0 19.4 29.2





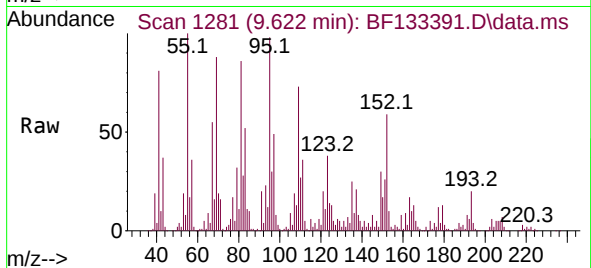
#49
Acenaphthylene
Concen: 7.048 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

CHRT-25990

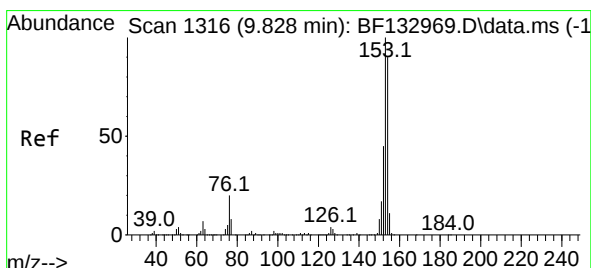
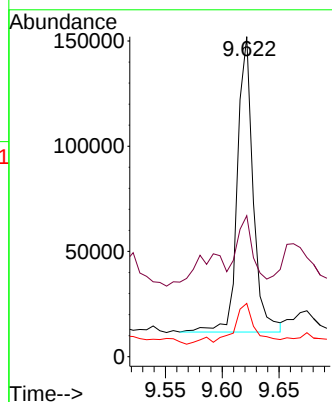
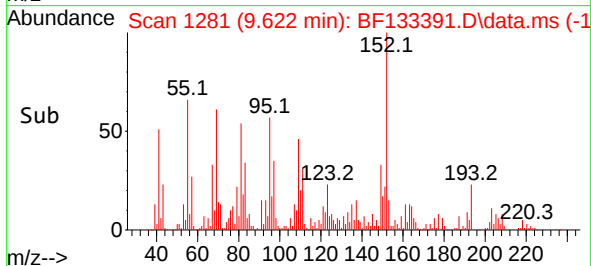


Tgt Ion:152 Resp: 13543
Ion Ratio Lower Upper
152 100
151 44.1 16.6 24.8
153 16.6 11.5 17.3

Manual Integrations

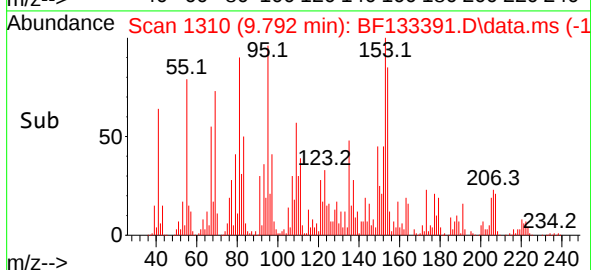
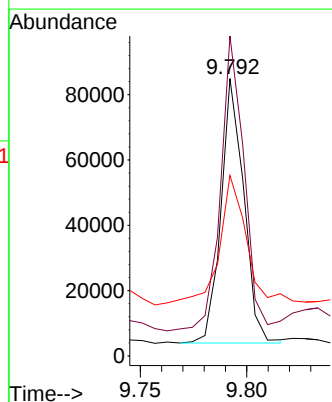
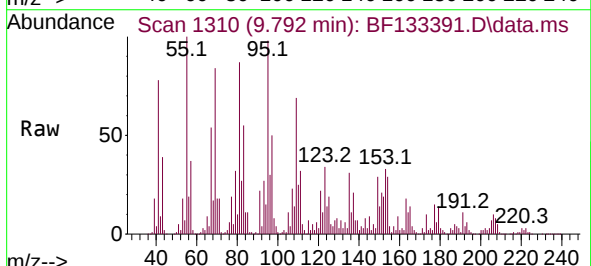
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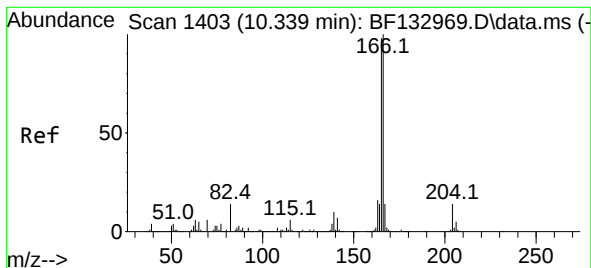
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#52
Acenaphthene
Concen: 4.665 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.000 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Tgt Ion:154 Resp: 60040
Ion Ratio Lower Upper
154 100
153 115.4 89.0 133.6
152 65.1 40.4 60.6





#58

Fluorene

Concen: 5.746 ng

RT: 10.316 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

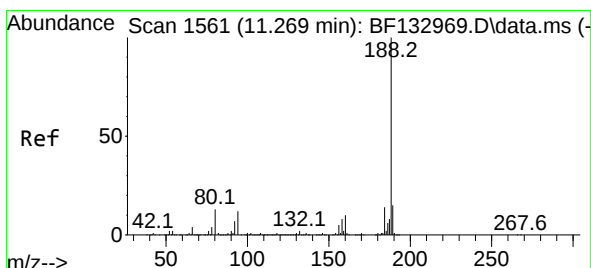
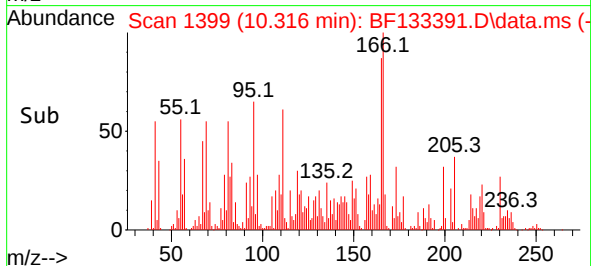
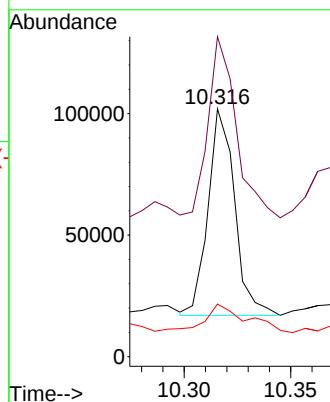
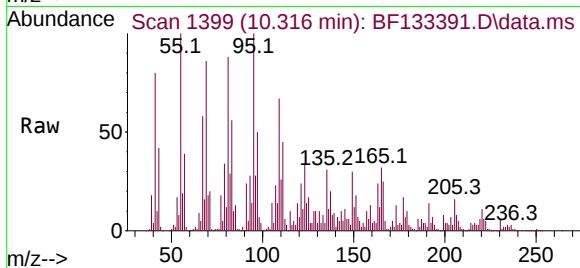
CHRT-25990

Tgt Ion:166	Resp:	73904
Ion Ratio	Lower	Upper
166	100	
165	129.1	78.6 117.8
167	21.2	11.0 16.4

Manual Integrations

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Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#64

Phenanthrene-d10

Concen: 20.000 ng m

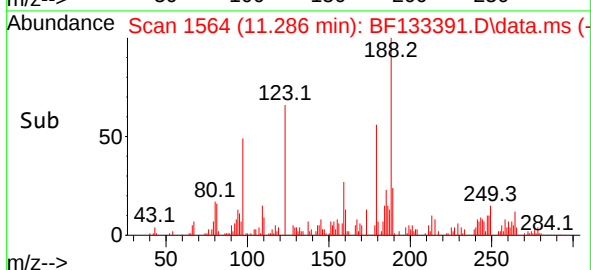
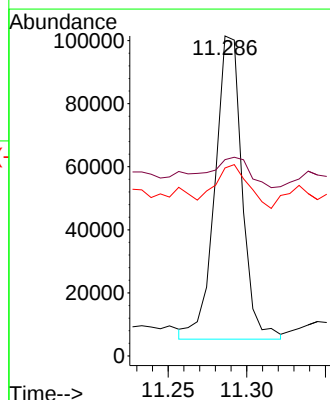
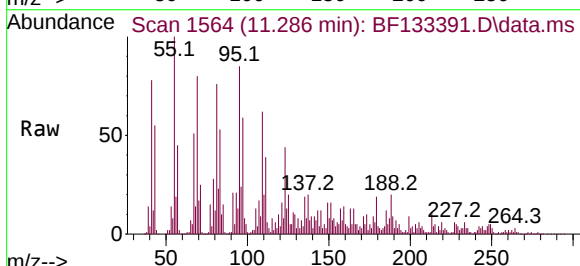
RT: 11.286 min Scan# 1564

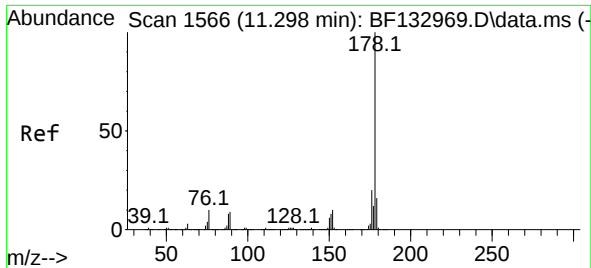
Delta R.T. 0.047 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

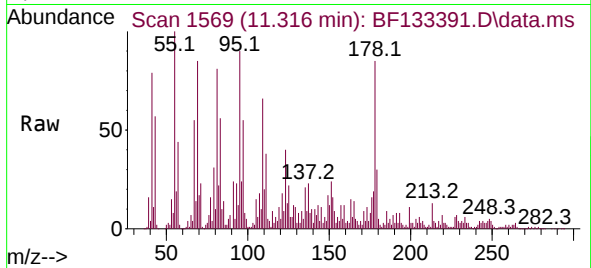
Tgt Ion:188	Resp:	115254
Ion Ratio	Lower	Upper
188	100	
94	61.4	9.7 14.5
80	58.8	10.4 15.6





#71
Phenanthrene
Concen: 57.903 ng
RT: 11.316 min Scan# 1566
Delta R.T. 0.047 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

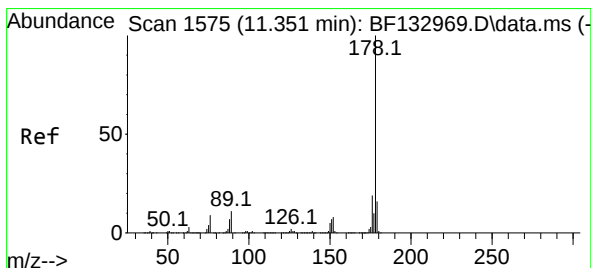
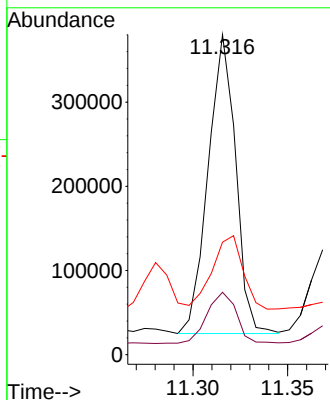
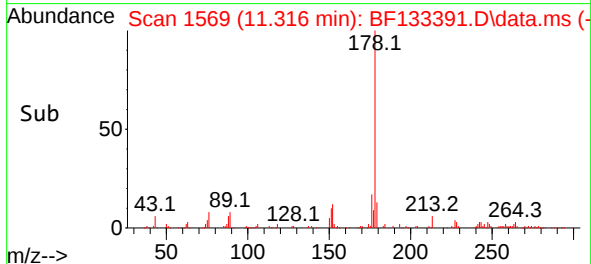
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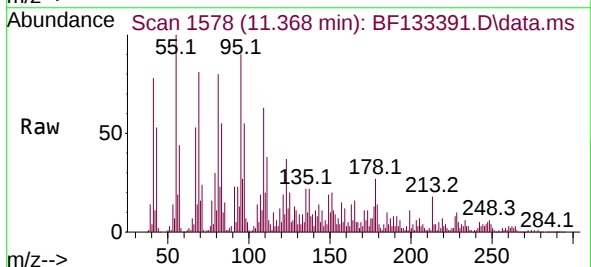
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Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 35.2 12.5 18.7

Manual Integrations
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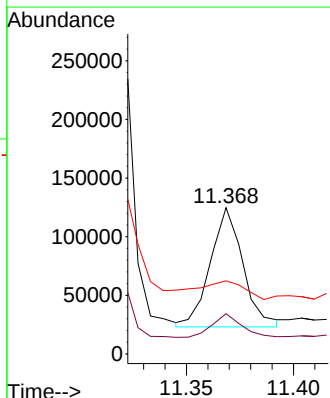
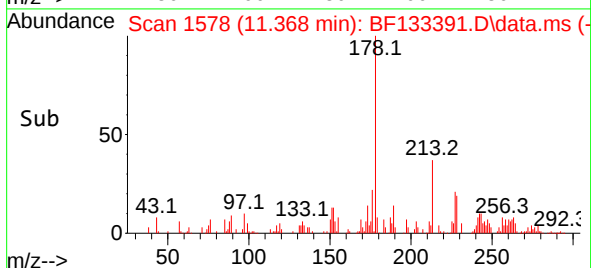
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023

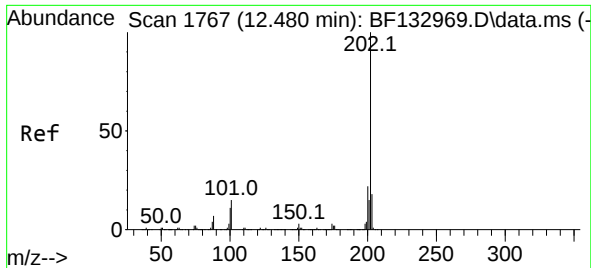


#72
Anthracene
Concen: 17.060 ng m
RT: 11.368 min Scan# 1578
Delta R.T. 0.053 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23



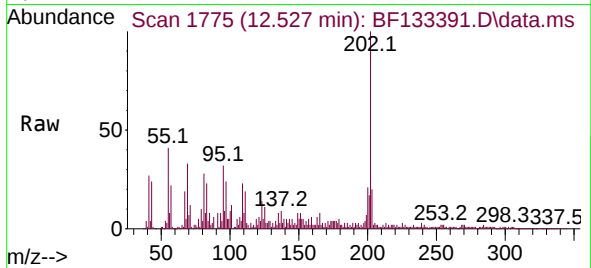
Tgt Ion:178 Resp: 108152
Ion Ratio Lower Upper
178 100
176 27.6 15.4 23.0#
179 50.0 12.4 18.6#





#75
Fluoranthene
Concen: 172.529 ng
RT: 12.527 min Scan# 11
Delta R.T. 0.076 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

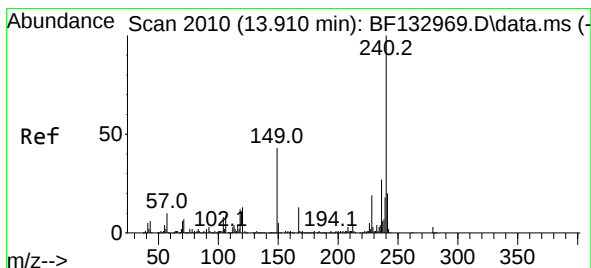
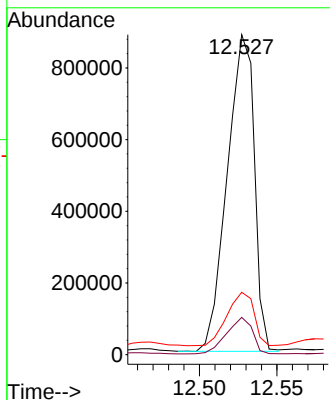
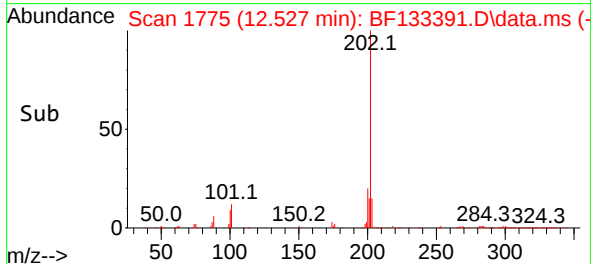
Instrument :
BNA_F
ClientSampleId :
CHRT-25990



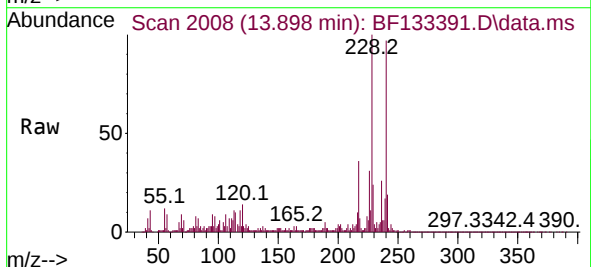
Tgt Ion:202 Resp: 107260
Ion Ratio Lower Upper
202 100
101 11.6 0.0 35.3
203 19.5 0.0 38.1

Manual Integrations
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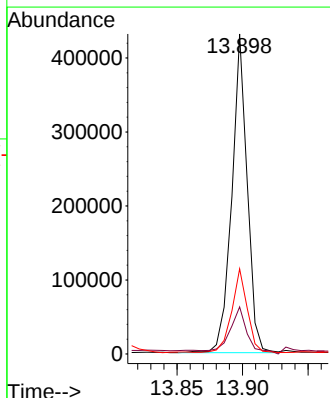
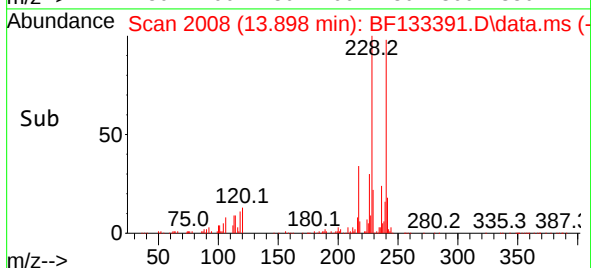
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023

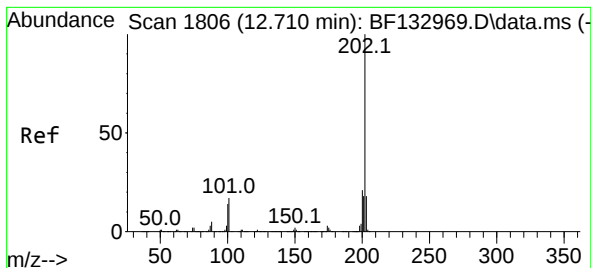


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.898 min Scan# 2008
Delta R.T. 0.018 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23



Tgt Ion:240 Resp: 352489
Ion Ratio Lower Upper
240 100
120 14.7 10.5 15.7
236 26.6 21.5 32.3





#78

Pyrene

Concen: 46.969 ng

RT: 12.751 min Scan# 1813

Delta R.T. 0.071 min

Lab File: BF133391.D

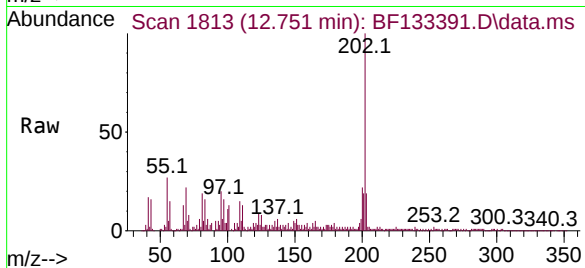
Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

CHRT-25990



Tgt Ion:202 Resp: 141923

Ion Ratio Lower Upper

202 100

200 22.1 17.1 25.7

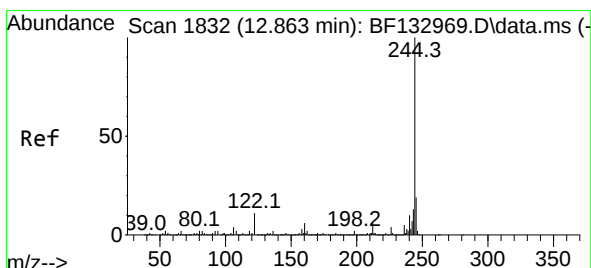
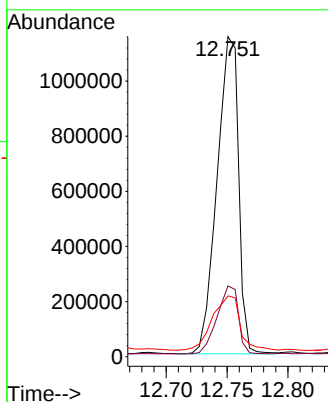
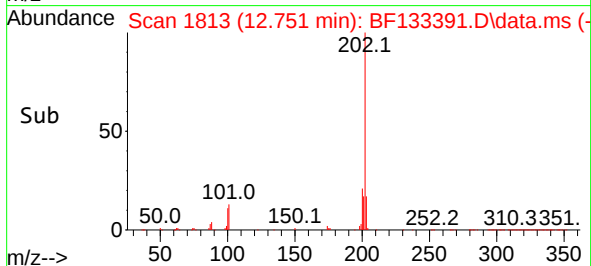
203 19.0 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023



#79

Terphenyl-d14

Concen: 25.965 ng

RT: 12.874 min Scan# 1834

Delta R.T. 0.047 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

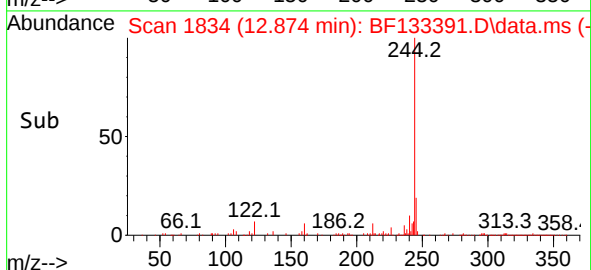
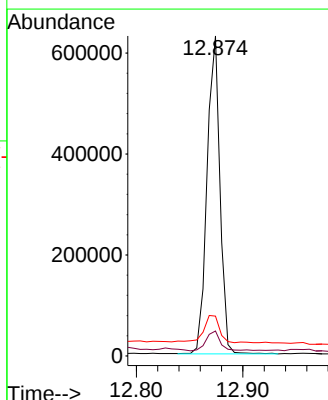
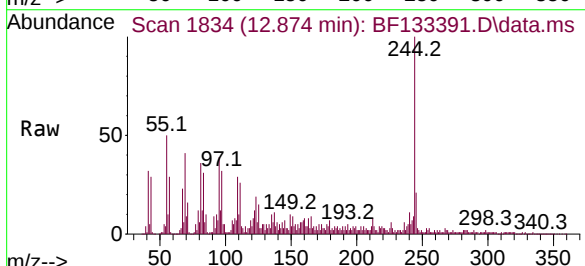
Tgt Ion:244 Resp: 530668

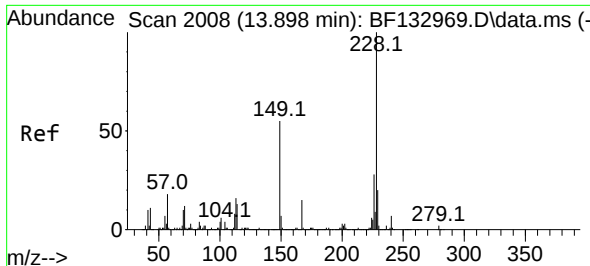
Ion Ratio Lower Upper

244 100

212 7.8 5.1 7.7#

122 12.5 8.6 13.0





#81
Benzo(a)anthracene
Concen: 69.535 ng
RT: 13.886 min Scan# 2008
Delta R.T. 0.018 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

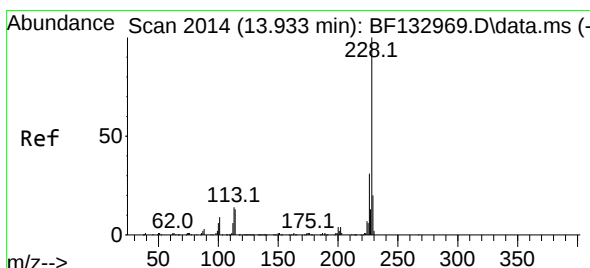
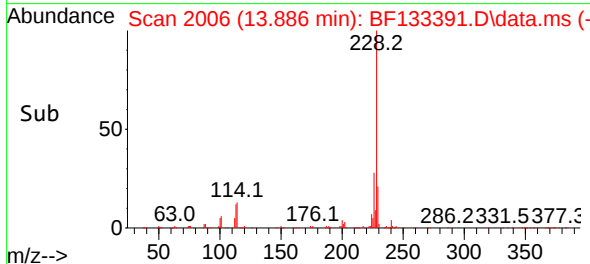
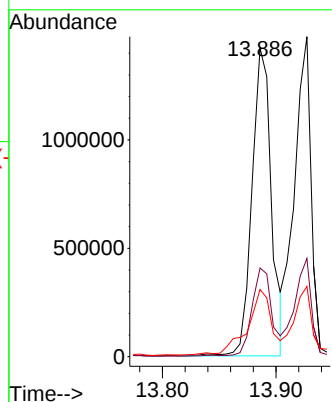
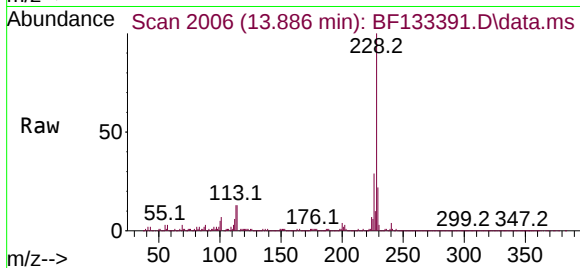
CHRT-25990

Tgt Ion:228 Resp: 1685489
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 21.8 16.0 24.0

Manual Integrations

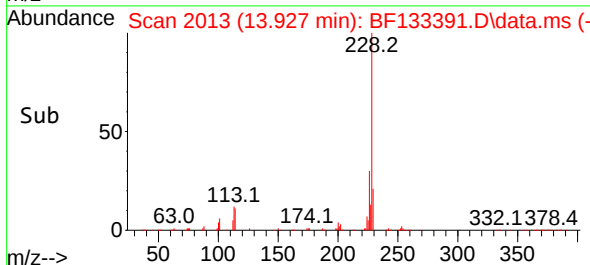
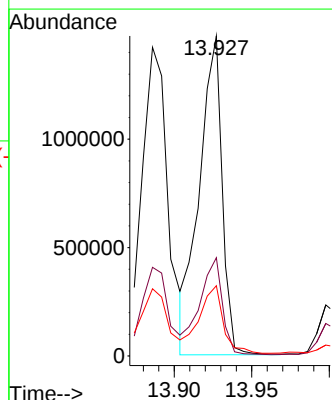
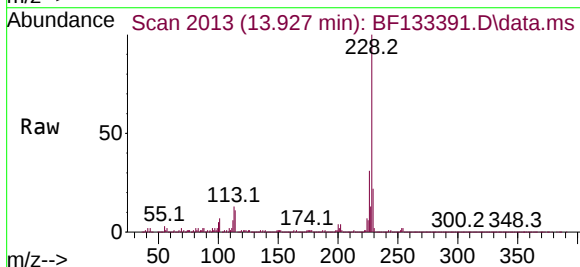
APPROVED

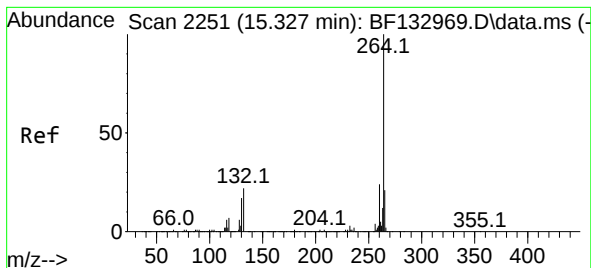
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#83
Chrysene
Concen: 62.291 ng
RT: 13.927 min Scan# 2013
Delta R.T. 0.023 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Tgt Ion:228 Resp: 1509527
Ion Ratio Lower Upper
228 100
226 30.7 24.7 37.1
229 21.9 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.309 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

CHRT-25990

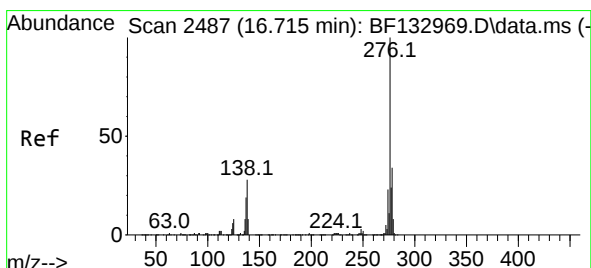
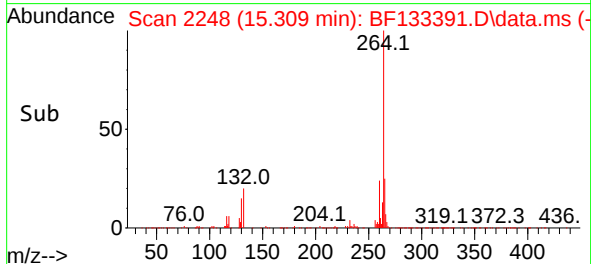
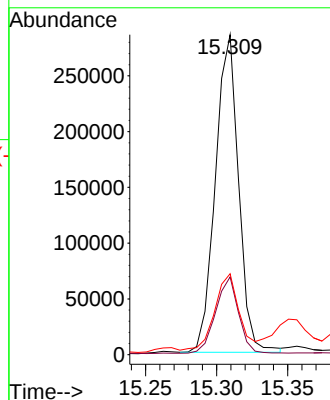
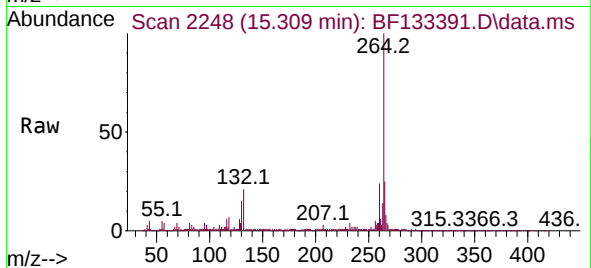
Tgt Ion:	264	Resp:	323540
Ion Ratio	Lower	Upper	
264	100		
260	24.3	18.8	28.2
265	25.3	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 45.057 ng

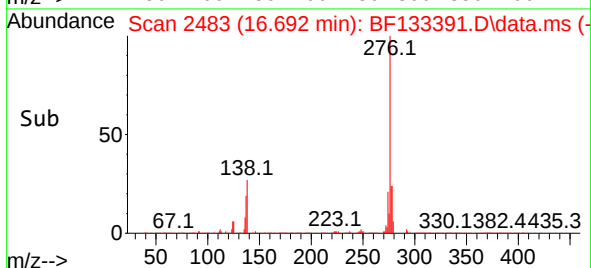
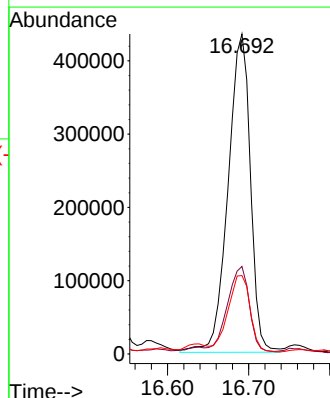
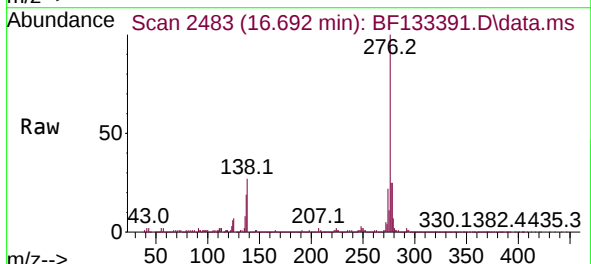
RT: 16.692 min Scan# 2483

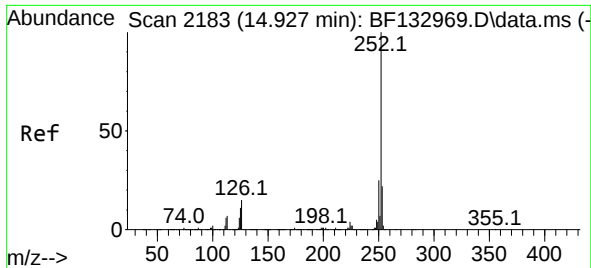
Delta R.T. 0.012 min

Lab File: BF133391.D

Acq: 15 May 2023 19:23

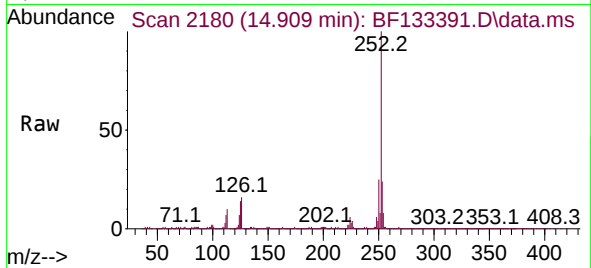
Tgt Ion:	276	Resp:	829214
Ion Ratio	Lower	Upper	
276	100		
138	27.0	25.5	38.3
277	23.9	20.4	30.6





#88
Benzo(b)fluoranthene
Concen: 81.068 ng m
RT: 14.909 min Scan# 2183
Delta R.T. 0.018 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

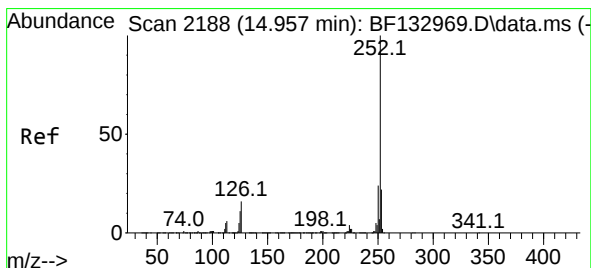
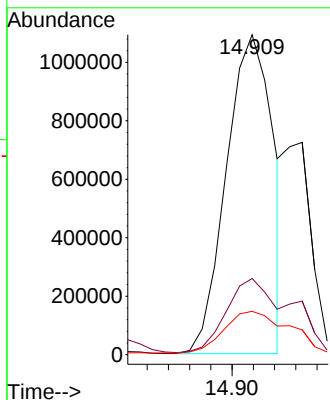
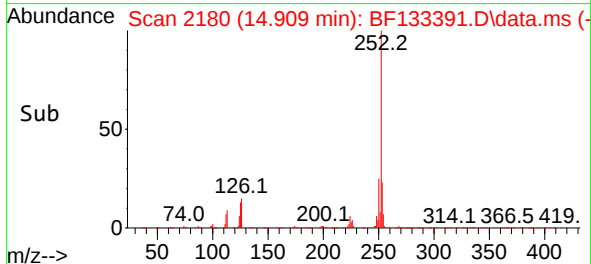
Instrument :
BNA_F
ClientSampleId :
CHRT-25990



Tgt Ion:252 Resp: 166864
Ion Ratio Lower Upper
252 100
253 23.8 17.6 26.4
125 13.5 8.9 13.3

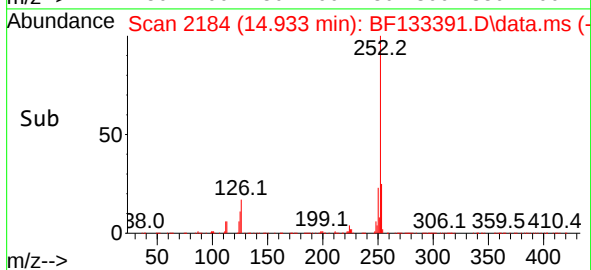
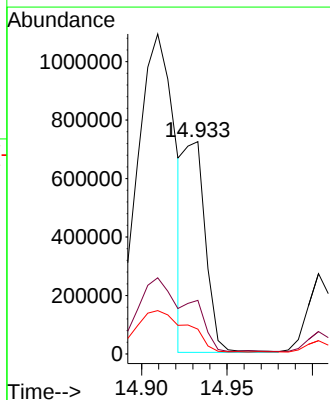
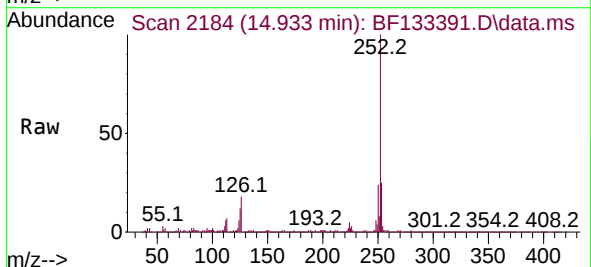
Manual Integrations
APPROVED

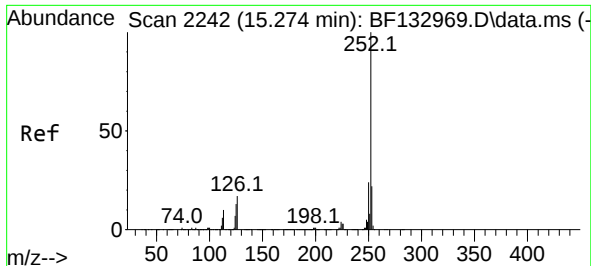
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#89
Benzo(k)fluoranthene
Concen: 30.812 ng m
RT: 14.933 min Scan# 2184
Delta R.T. 0.012 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Tgt Ion:252 Resp: 628681
Ion Ratio Lower Upper
252 100
253 25.3 17.7 26.5
125 11.7 9.0 13.4





#90
Benzo(a)pyrene
Concen: 68.194 ng
RT: 15.256 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Instrument :

BNA_F

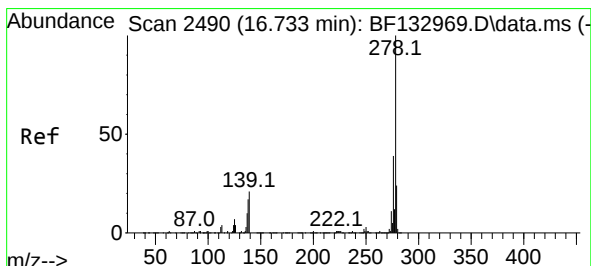
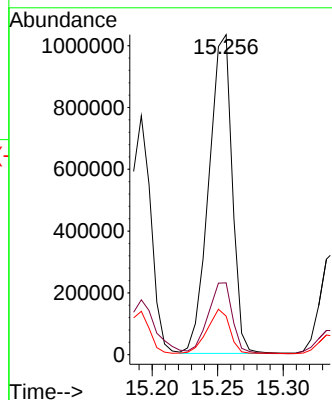
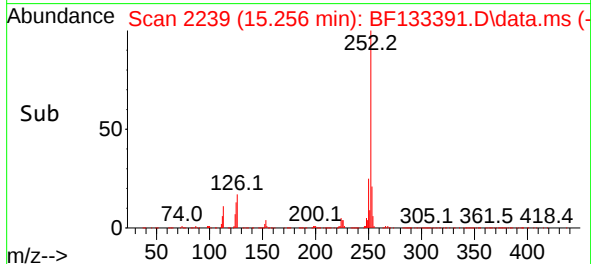
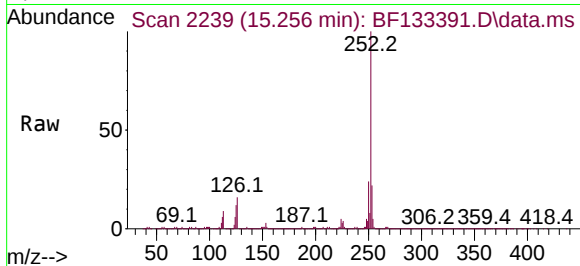
ClientSampleId :

CHRT-25990

Tgt Ion:252 Resp: 127762
Ion Ratio Lower Upper
252 100
253 22.5 17.7 26.5
125 12.0 10.5 15.7

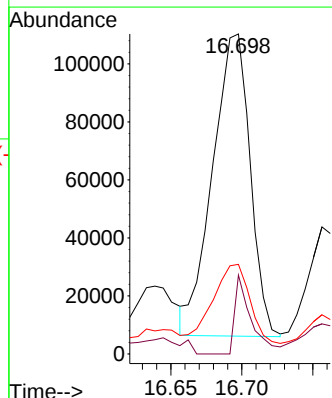
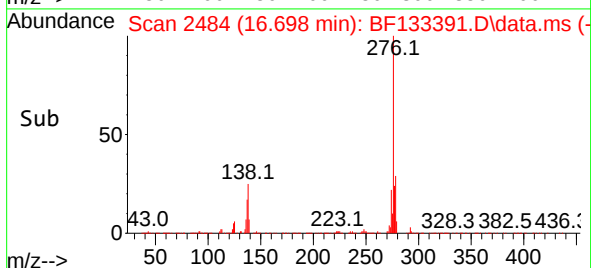
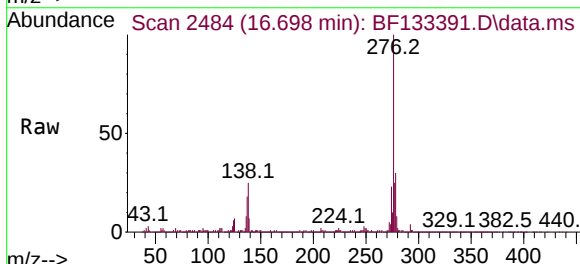
Manual Integrations
APPROVED

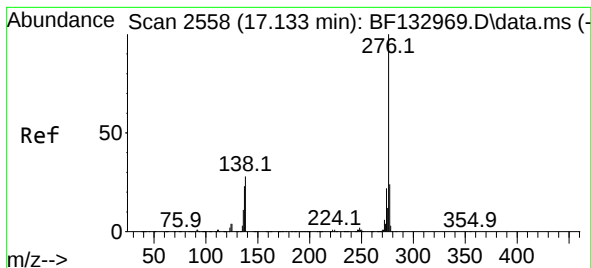
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#91
Dibenzo(a,h)anthracene
Concen: 12.489 ng
RT: 16.698 min Scan# 2484
Delta R.T. 0.006 min
Lab File: BF133391.D
Acq: 15 May 2023 19:23

Tgt Ion:278 Resp: 191700
Ion Ratio Lower Upper
278 100
139 24.6 16.6 24.8
279 28.0 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 53.069 ng

RT: 17.109 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133391.D

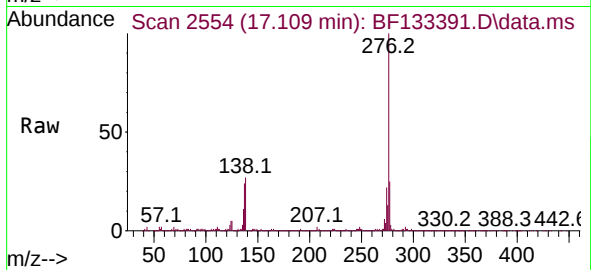
Acq: 15 May 2023 19:23

Instrument :

BNA_F

ClientSampleId :

CHRT-25990



Tgt Ion:276 Resp: 804204

Ion Ratio Lower Upper

276 100

277 24.7 19.4 29.0

138 27.5 22.7 34.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023

