

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031523\
 Data File : BF132808.D
 Acq On : 15 Mar 2023 17:49
 Operator : CG\JU
 Sample : 01905-01DL 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UNION-1DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/16/2023
 Supervised By : Jagrut Upadhyay 03/16/2023

Quant Time: Mar 16 08:10:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 14 15:35:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	191926	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	715117	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	342751	20.000	ng	0.00
64) Phenanthrene-d10	11.498	188	610981	20.000	ng	0.00
76) Chrysene-d12	14.157	240	353661	20.000	ng	# 0.00
86) Perylene-d12	15.686	264	244728	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	666212	56.336	ng	0.00
7) Phenol-d6	6.598	99	855352	55.422	ng	0.00
23) Nitrobenzene-d5	7.528	82	500535	33.208	ng	-0.01
42) 2,4,6-Tribromophenol	10.798	330	169467	45.783	ng	-0.01
45) 2-Fluorobiphenyl	9.322	172	864732	38.415	ng	0.00
79) Terphenyl-d14	13.086	244	702100	33.565	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.869	152	79618	2.432	ng	96
71) Phenanthrene	11.522	178	200629	6.339	ng	97
72) Anthracene	11.575	178	72088	2.212	ng	97
75) Fluoranthene	12.722	202	1046117	30.233	ng	100
78) Pyrene	12.957	202	1127371	35.062	ng	99
81) Benzo(a)anthracene	14.145	228	793286	29.979	ng	95
83) Chrysene	14.180	228	681144	27.527	ng	98
87) Indeno(1,2,3-cd)pyrene	17.263	276	325758	20.315	ng	# 94
88) Benzo(b)fluoranthene	15.233	252	798535m	48.690	ng	
89) Benzo(k)fluoranthene	15.263	252	304854m	18.993	ng	
90) Benzo(a)pyrene	15.627	252	607161	39.556	ng	97
91) Dibenzo(a,h)anthracene	17.268	278	80187m	6.137	ng	
92) Benzo(g,h,i)perylene	17.745	276	301754	21.364	ng	96

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

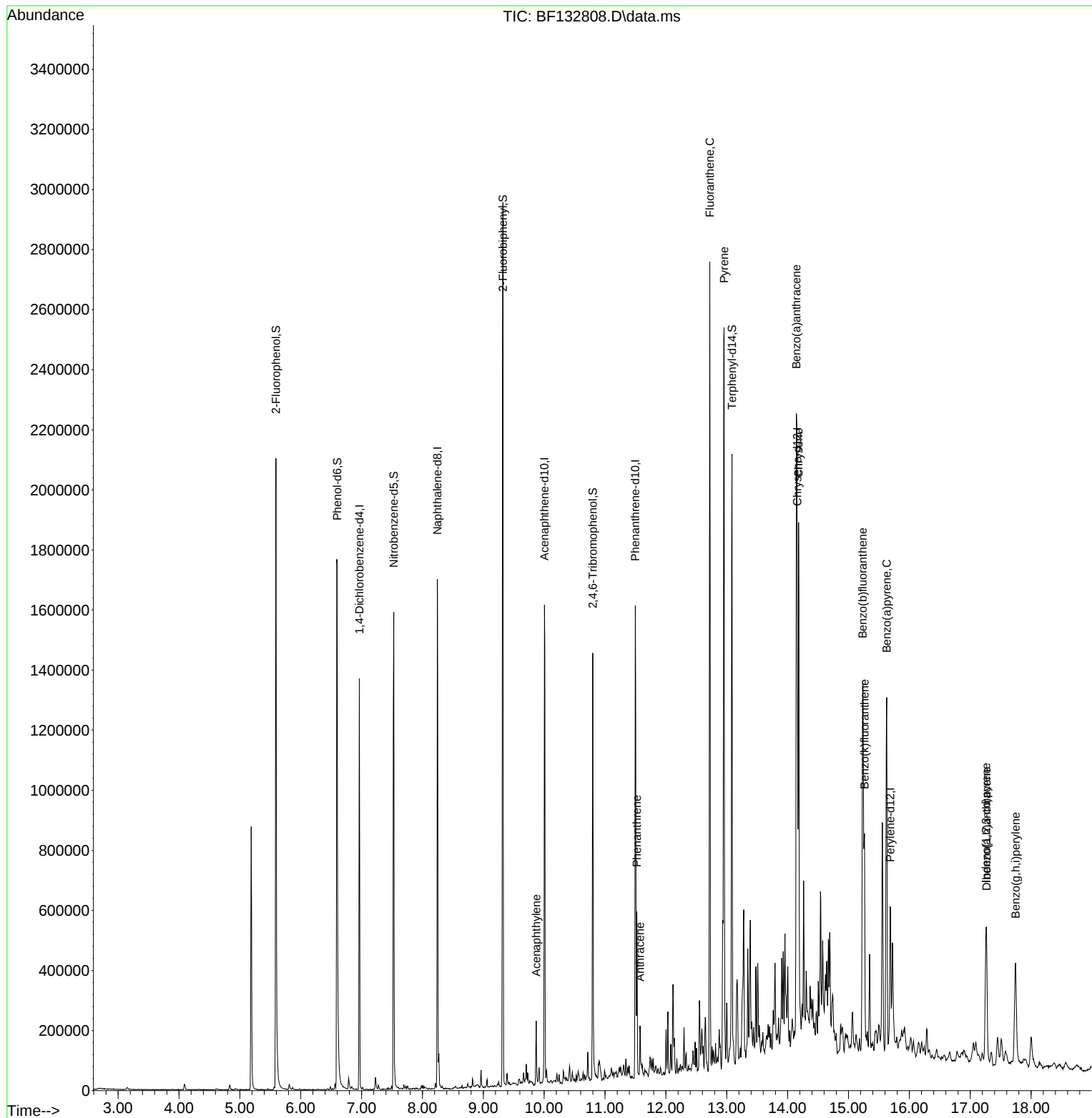
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031523\
Data File : BF132808.D
Acq On : 15 Mar 2023 17:49
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Sample : 01905-01DL 2X
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ALS Vial : 13 Sample Multiplier: 1

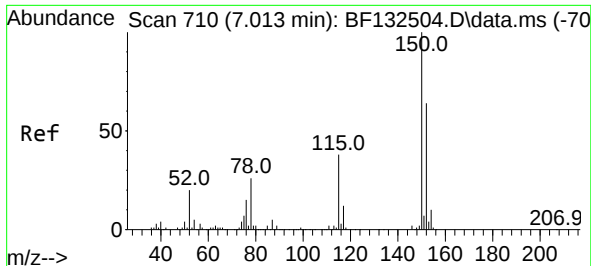
Instrument :
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Quant Time: Mar 16 08:10:09 2023
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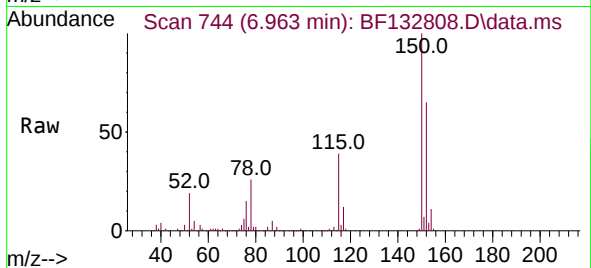
Reviewed By : Christian Giraldo 03/16/2023
Supervised By : Jagrut Upadhyay 03/16/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

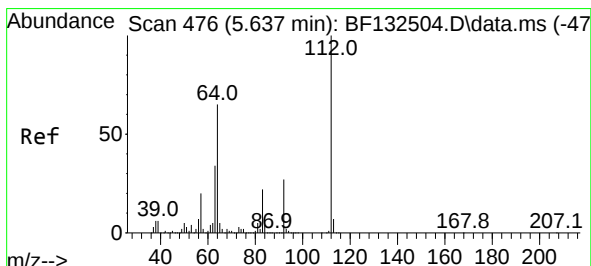
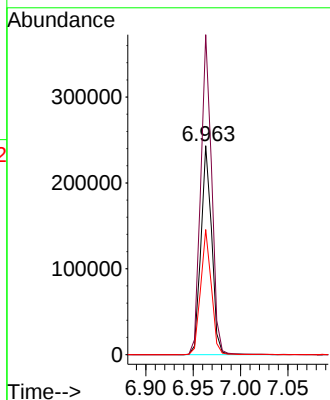
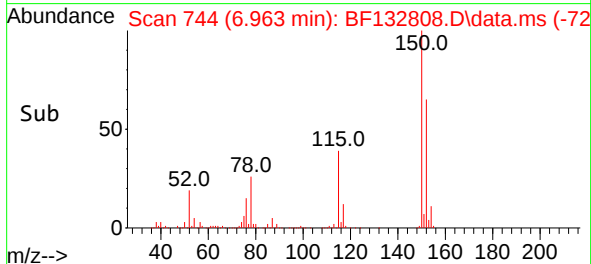
Instrument :
BNA_F
ClientSampleId :
UNION-1DL



Tgt Ion:152 Resp: 191926
Ion Ratio Lower Upper
152 100
150 153.2 125.4 188.2
115 59.8 47.8 71.6

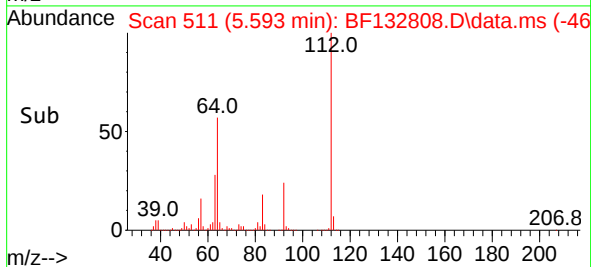
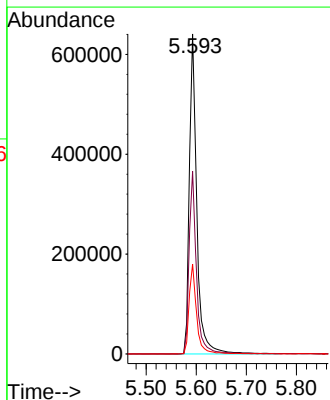
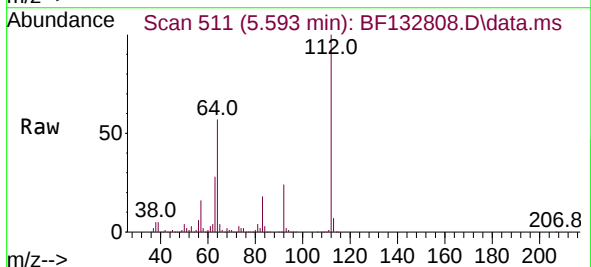
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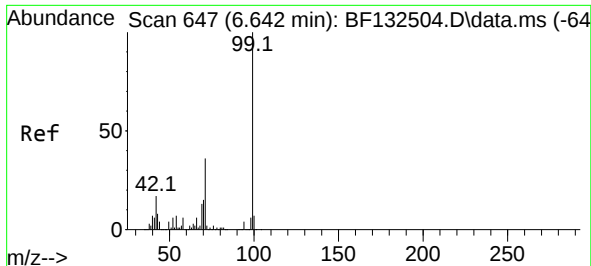
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023



#5
2-Fluorophenol
Concen: 56.336 ng
RT: 5.593 min Scan# 511
Delta R.T. 0.000 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

Tgt Ion:112 Resp: 666212
Ion Ratio Lower Upper
112 100
64 57.1 51.6 77.4
63 28.1 27.4 41.2





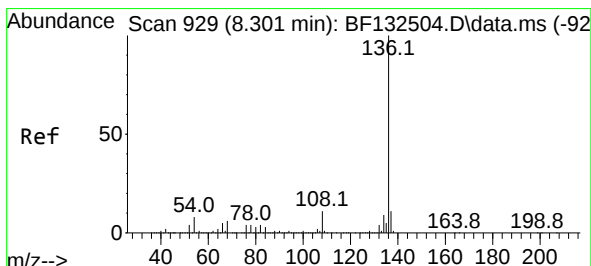
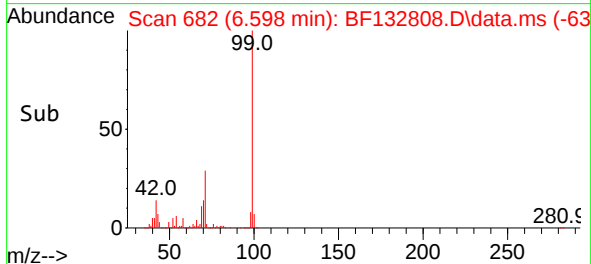
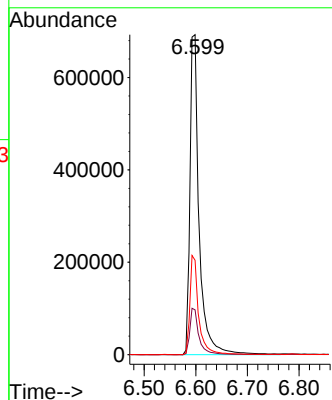
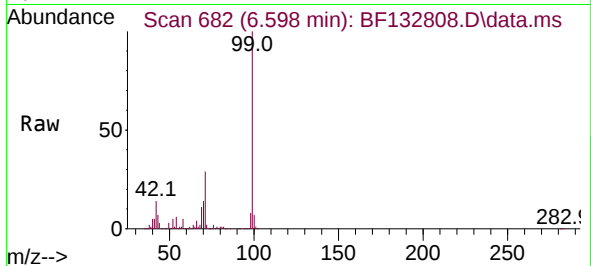
#7
Phenol-d6
Concen: 55.422 ng
RT: 6.598 min Scan# 682
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

Instrument :
BNA_F
ClientSampleId :
UNION-1DL

Tgt Ion: 99 Resp: 855352
Ion Ratio Lower Upper
99 100
42 14.0 13.9 20.9
71 29.5 28.5 42.7

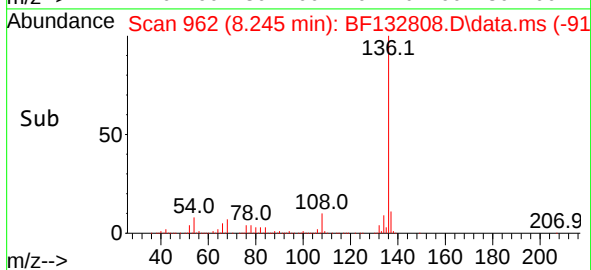
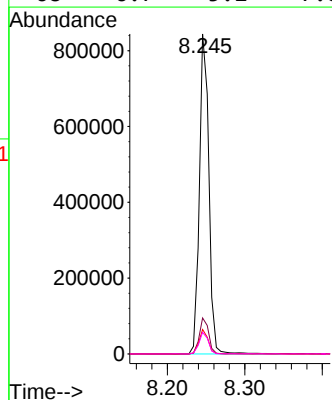
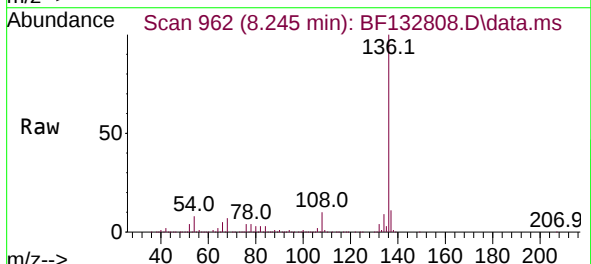
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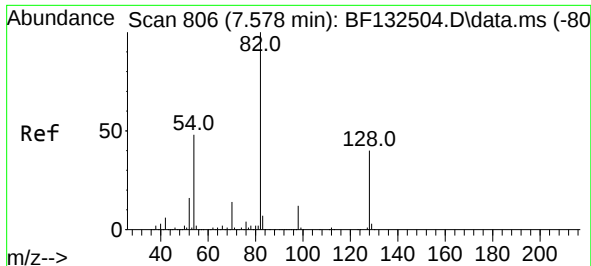
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 962
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

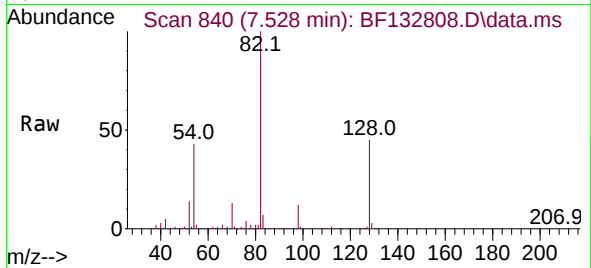
Tgt Ion:136 Resp: 715117
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 7.6 6.2 9.4
68 6.7 5.2 7.8





#23
Nitrobenzene-d5
Concen: 33.208 ng
RT: 7.528 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

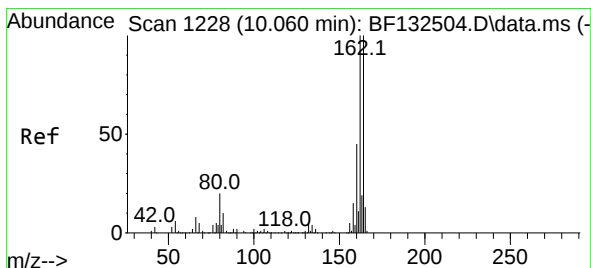
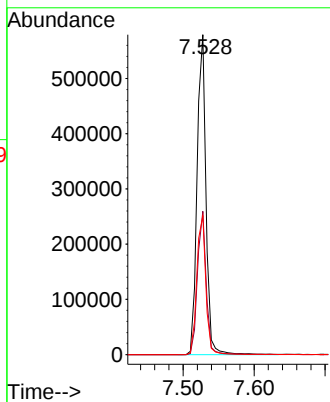
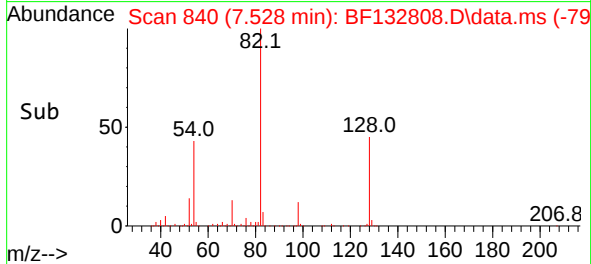
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 82 Resp: 500535
Ion Ratio Lower Upper
82 100
128 44.8 32.2 48.2
54 43.4 38.4 57.6

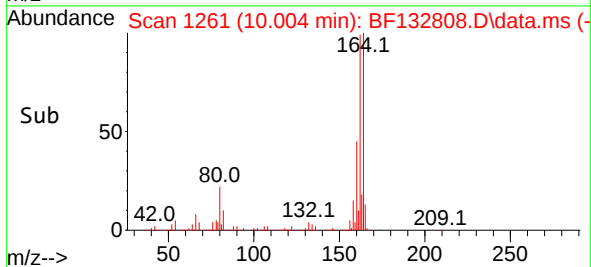
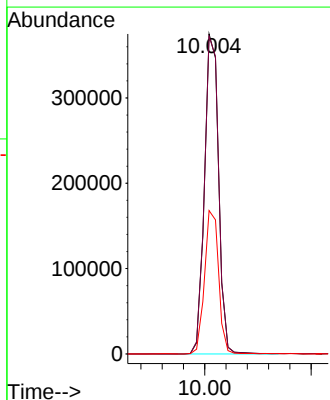
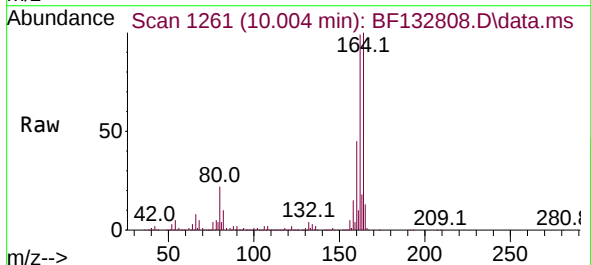
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1261
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

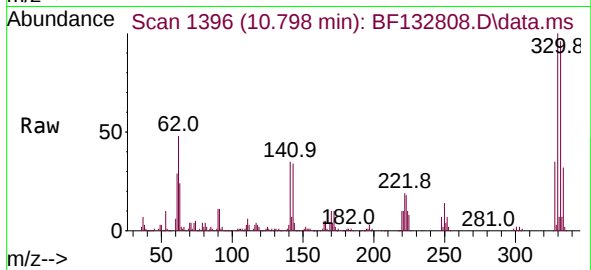
Tgt Ion:164 Resp: 342751
Ion Ratio Lower Upper
164 100
162 99.2 79.8 119.8
160 44.8 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 45.783 ng
RT: 10.798 min Scan# 1145
Delta R.T. -0.012 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

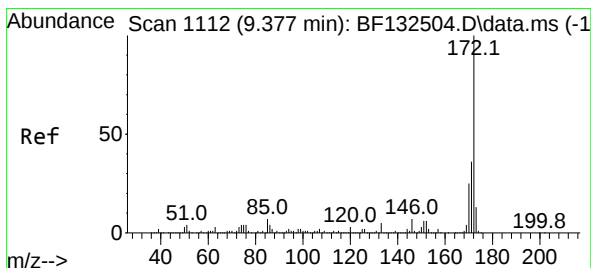
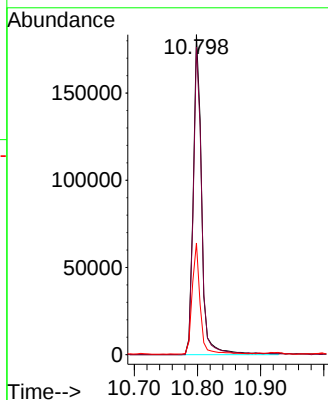
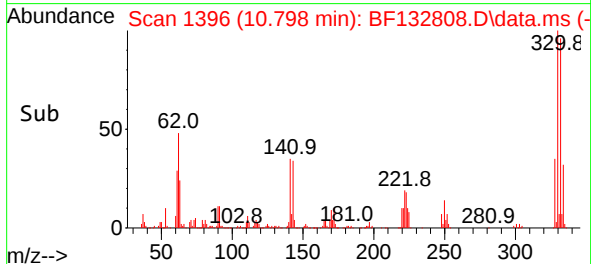
Instrument :
BNA_F
ClientSampleId :
UNION-1DL



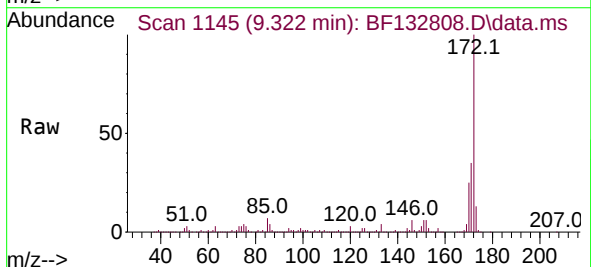
Tgt Ion: 330 Resp: 169462
Ion Ratio Lower Upper
330 100
332 95.4 76.2 114.4
141 33.0 28.4 42.6

Manual Integrations
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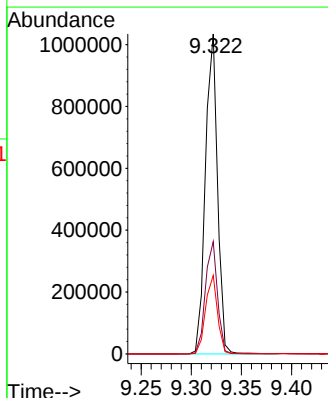
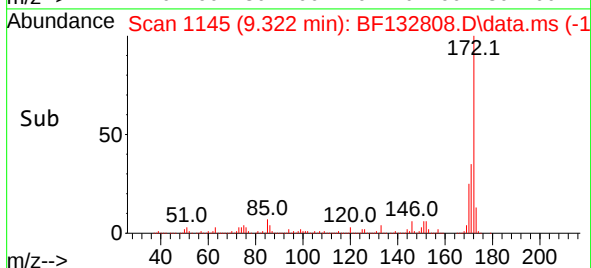
Reviewed By : Christian Giraldo 03/16/2023
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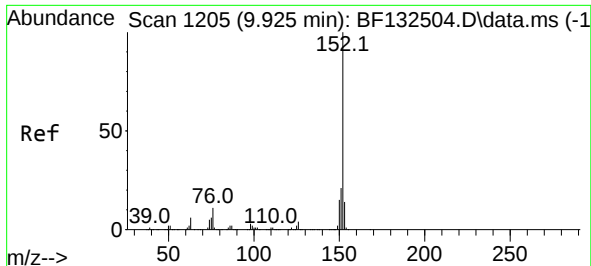


#45
2-Fluorobiphenyl
Concen: 38.415 ng
RT: 9.322 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49



Tgt Ion: 172 Resp: 864732
Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 24.5 19.7 29.5





#49

Acenaphthylene

Concen: 2.432 ng

RT: 9.869 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF132808.D

Acq: 15 Mar 2023 17:49

Instrument :

BNA_F

ClientSampleId :

UNION-1DL

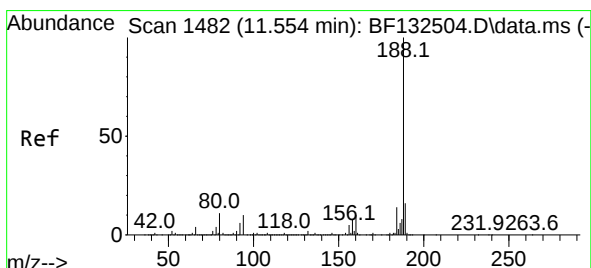
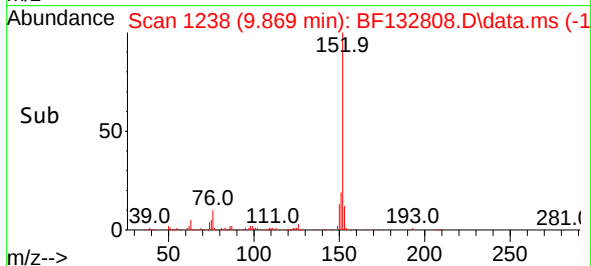
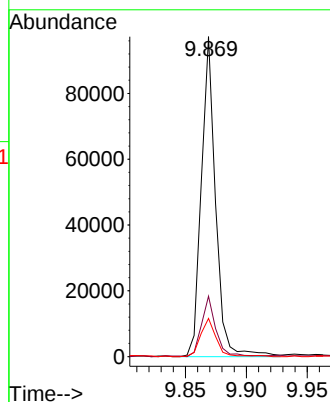
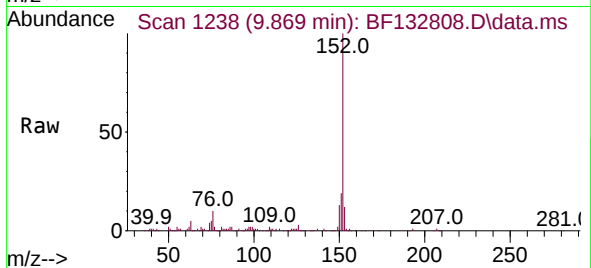
Tgt Ion:152 Resp: 79618
 Ion Ratio Lower Upper
 152 100
 151 18.9 16.4 24.6
 153 11.9 11.0 16.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/16/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

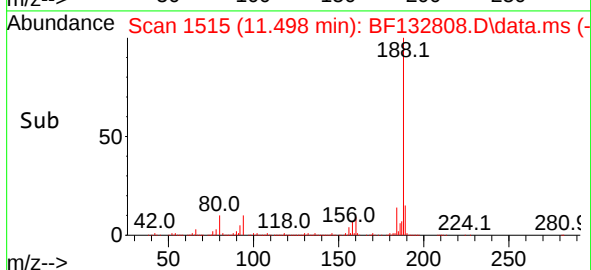
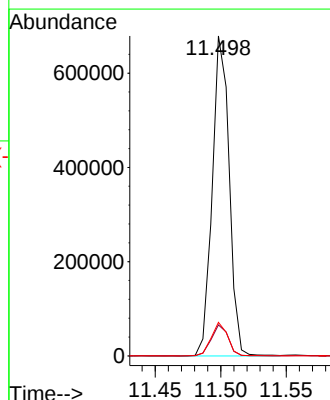
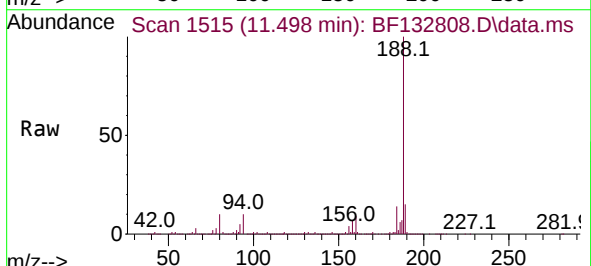
RT: 11.498 min Scan# 1515

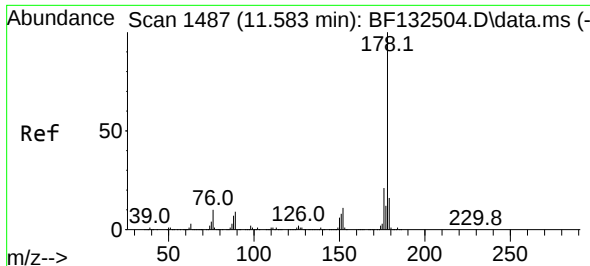
Delta R.T. -0.006 min

Lab File: BF132808.D

Acq: 15 Mar 2023 17:49

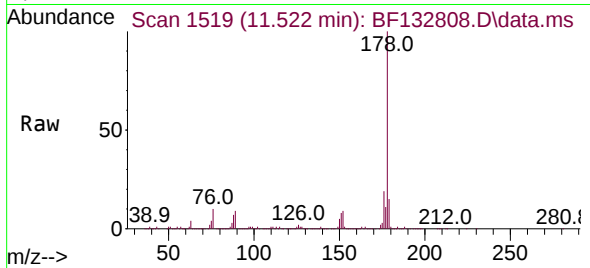
Tgt Ion:188 Resp: 610981
 Ion Ratio Lower Upper
 188 100
 94 9.7 8.3 12.5
 80 10.5 8.7 13.1





#71
Phenanthrene
Concen: 6.339 ng
RT: 11.522 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

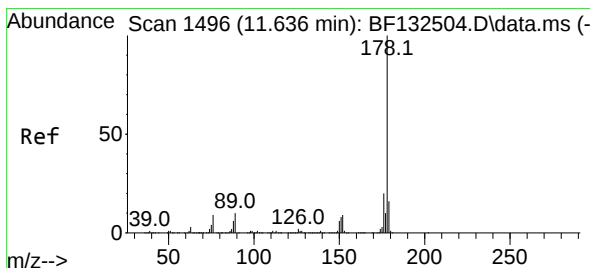
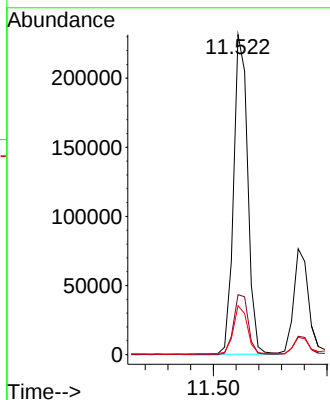
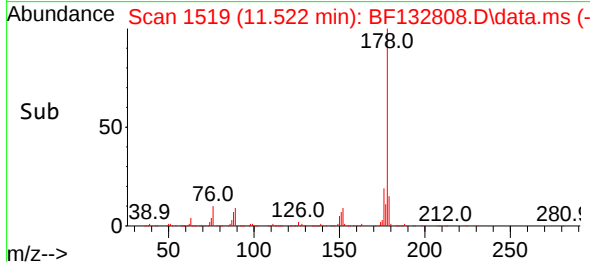
Instrument :
BNA_F
ClientSampleId :
UNION-1DL



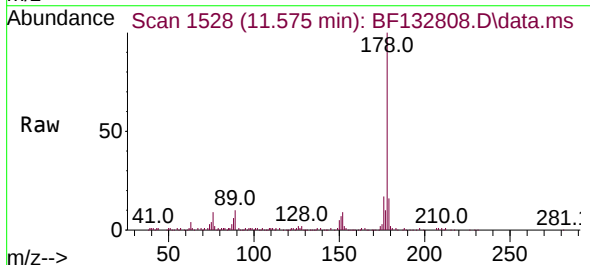
Tgt Ion:178 Resp: 200629
Ion Ratio Lower Upper
178 100
176 18.7 16.5 24.7
179 15.3 13.0 19.6

Manual Integrations
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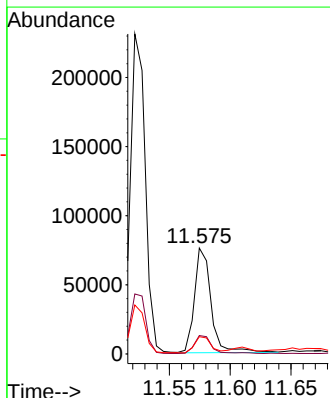
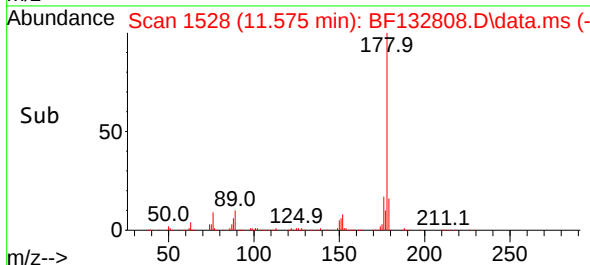
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023

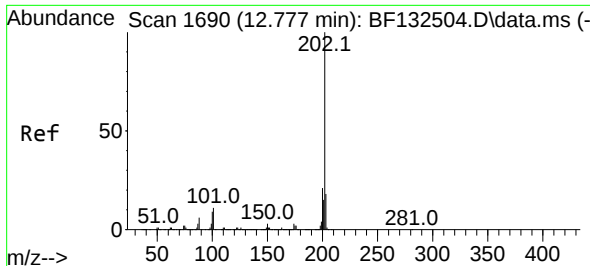


#72
Anthracene
Concen: 2.212 ng
RT: 11.575 min Scan# 1528
Delta R.T. -0.012 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49



Tgt Ion:178 Resp: 72088
Ion Ratio Lower Upper
178 100
176 17.2 15.6 23.4
179 16.2 12.5 18.7





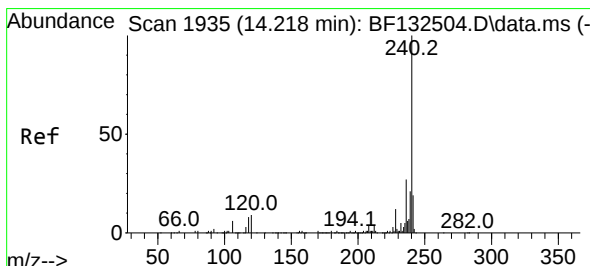
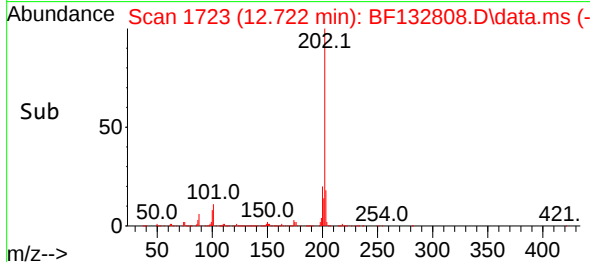
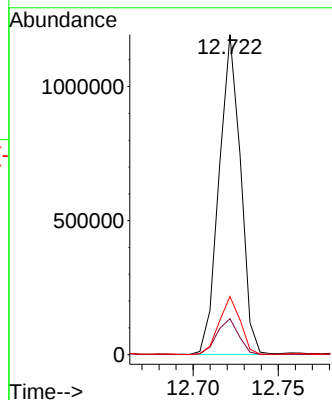
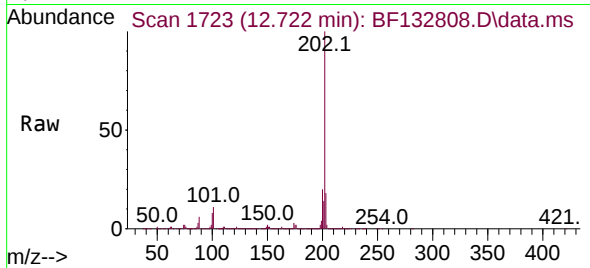
#75
Fluoranthene
Concen: 30.233 ng
RT: 12.722 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

Instrument :
BNA_F
ClientSampleId :
UNION-1DL

Tgt Ion:202 Resp: 104611
Ion Ratio Lower Upper
202 100
101 11.2 0.0 31.4
203 18.1 0.0 38.0

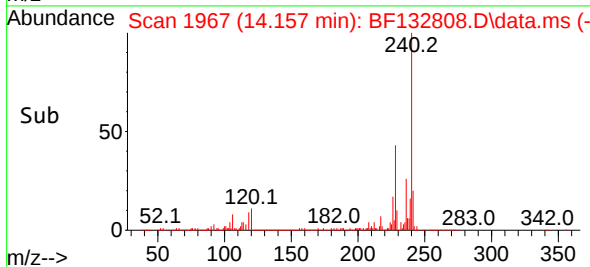
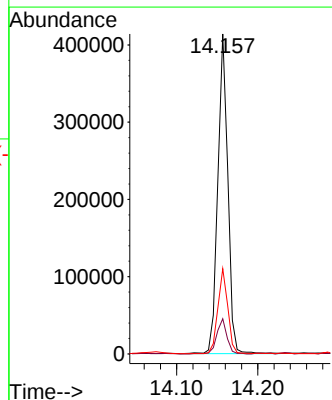
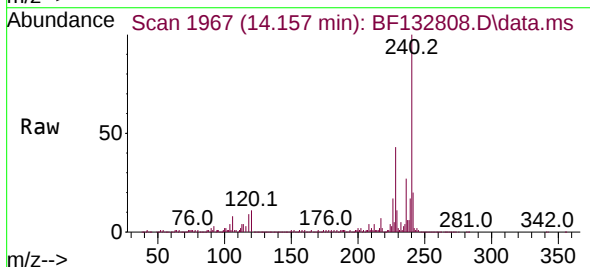
Manual Integrations
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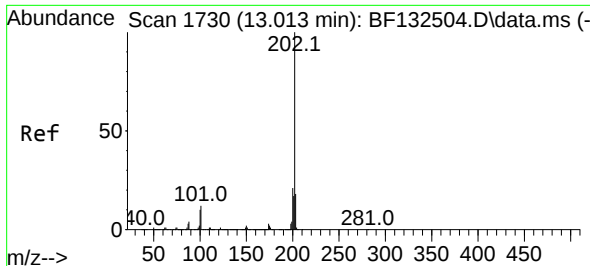
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.157 min Scan# 1967
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

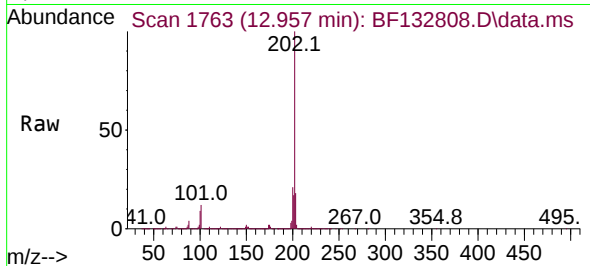
Tgt Ion:240 Resp: 353661
Ion Ratio Lower Upper
240 100
120 11.0 7.2 10.8#
236 26.6 21.8 32.6





#78
 Pyrene
 Concen: 35.062 ng
 RT: 12.957 min Scan# 1763
 Delta R.T. 0.000 min
 Lab File: BF132808.D
 Acq: 15 Mar 2023 17:49

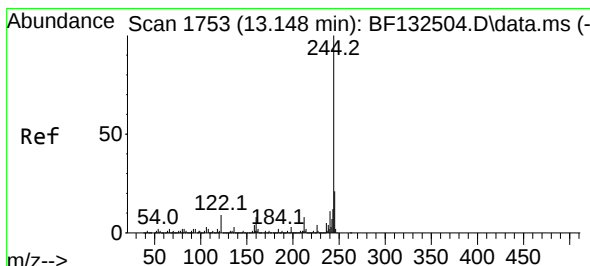
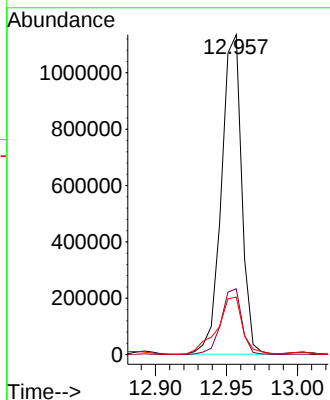
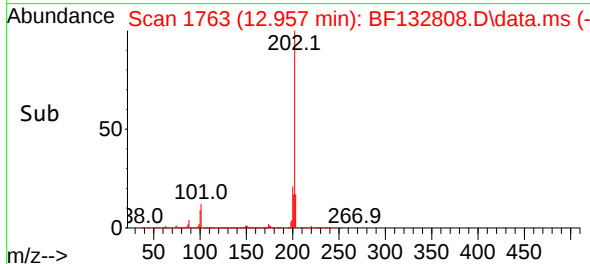
Instrument :
 BNA_F
 ClientSampleId :
 UNION-1DL



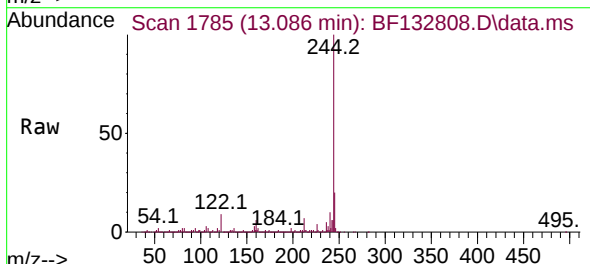
Tgt Ion:202 Resp: 112737
 Ion Ratio Lower Upper
 202 100
 200 20.6 17.1 25.7
 203 18.0 14.6 21.8

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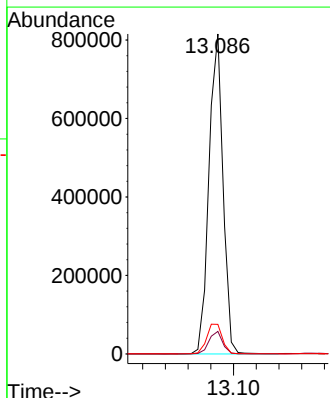
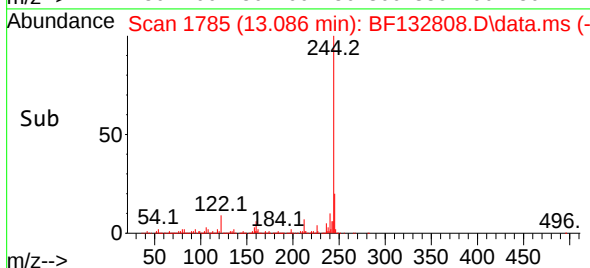
Reviewed By :Christian Giraldo 03/16/2023
 Supervised By :Jagrut Upadhyay 03/16/2023

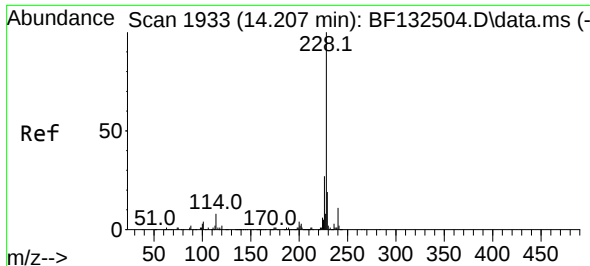


#79
 Terphenyl-d14
 Concen: 33.565 ng
 RT: 13.086 min Scan# 1785
 Delta R.T. -0.006 min
 Lab File: BF132808.D
 Acq: 15 Mar 2023 17:49



Tgt Ion:244 Resp: 702100
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.5 9.7
 122 9.2 7.5 11.3





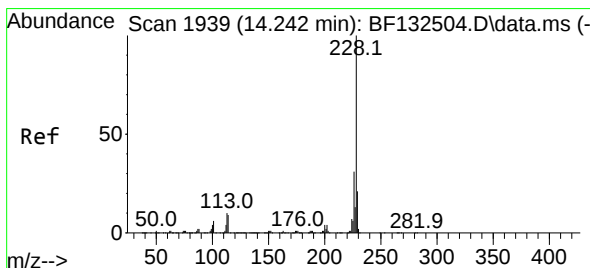
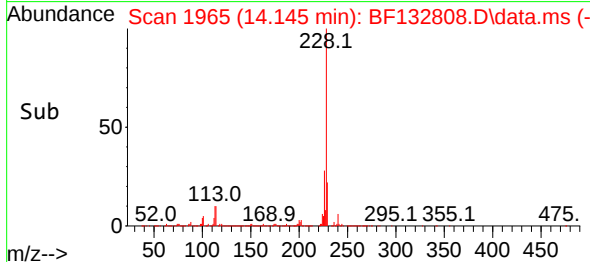
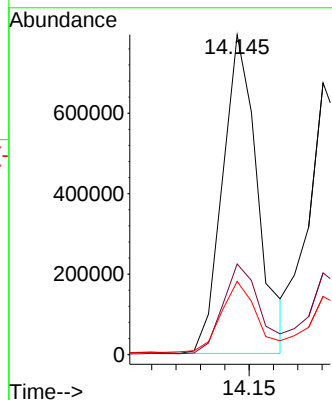
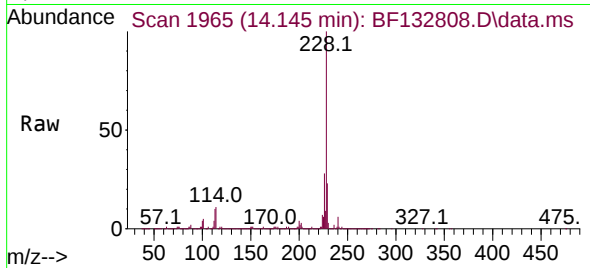
#81
Benzo(a)anthracene
Concen: 29.979 ng
RT: 14.145 min Scan# 1933
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

Instrument :
BNA_F
ClientSampleId :
UNION-1DL

Tgt Ion:228 Resp: 793286
Ion Ratio Lower Upper
228 100
226 28.3 21.7 32.5
229 22.9 15.4 23.2

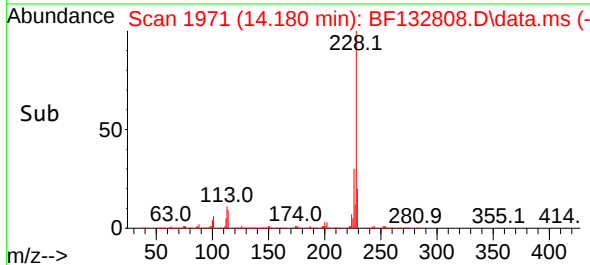
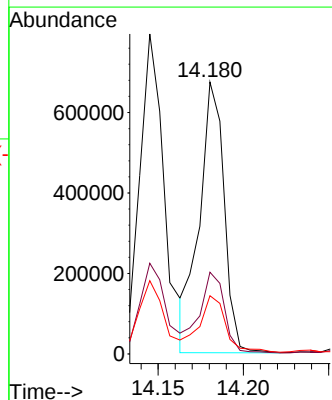
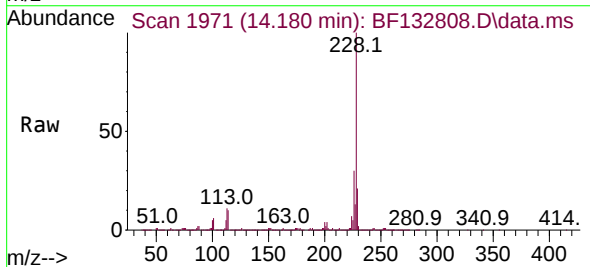
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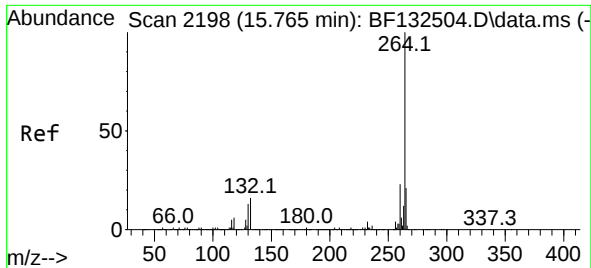
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023



#83
Chrysene
Concen: 27.527 ng
RT: 14.180 min Scan# 1971
Delta R.T. -0.012 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

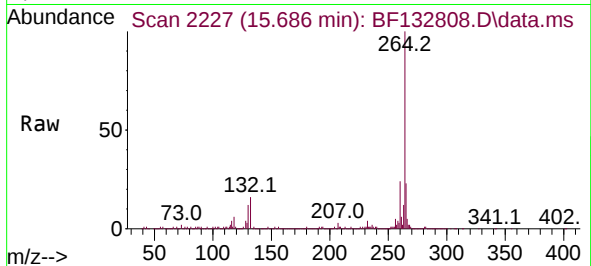
Tgt Ion:228 Resp: 681144
Ion Ratio Lower Upper
228 100
226 30.0 25.0 37.6
229 21.4 16.4 24.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.686 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

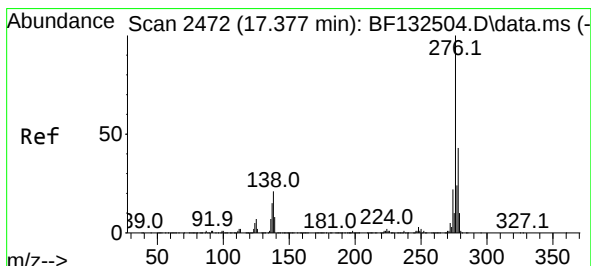
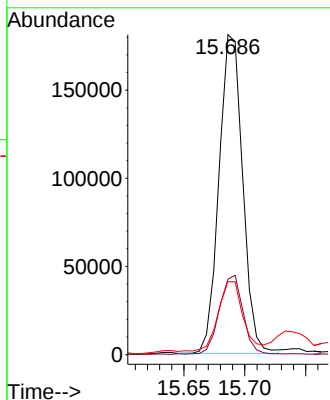
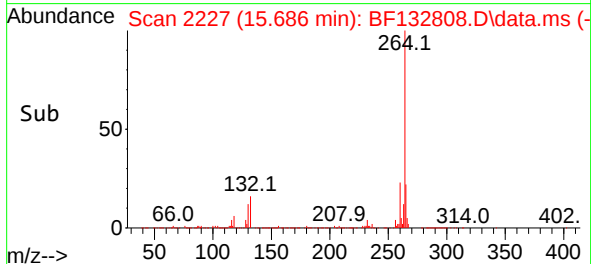
Instrument :
BNA_F
ClientSampleId :
UNION-1DL



Tgt Ion:264 Resp: 244728
Ion Ratio Lower Upper
264 100
260 23.6 18.8 28.2
265 22.8 17.1 25.7

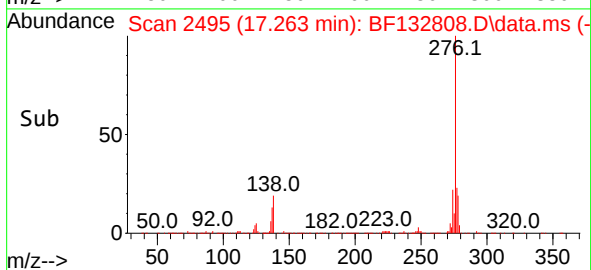
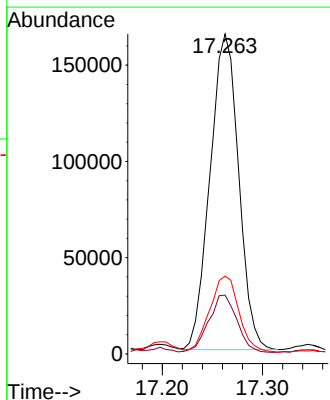
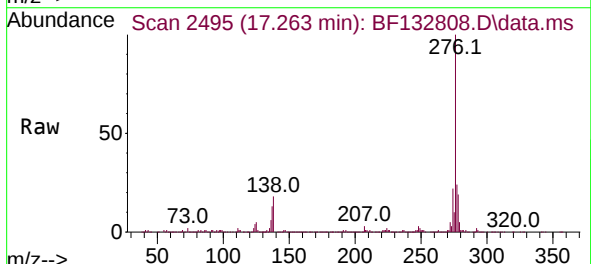
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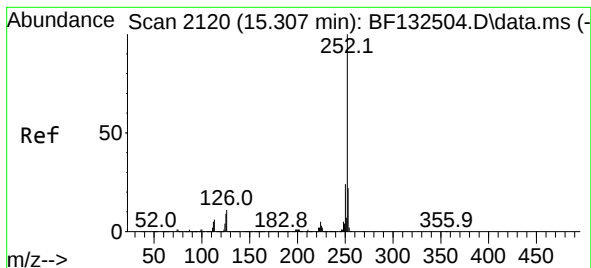
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 20.315 ng
RT: 17.263 min Scan# 2495
Delta R.T. -0.012 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

Tgt Ion:276 Resp: 325758
Ion Ratio Lower Upper
276 100
138 18.1 19.0 28.4#
277 24.7 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 48.690 ng m

RT: 15.233 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BF132808.D

Acq: 15 Mar 2023 17:49

Instrument :

BNA_F

ClientSampleId :

UNION-1DL

Tgt Ion:252 Resp: 798535

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.0

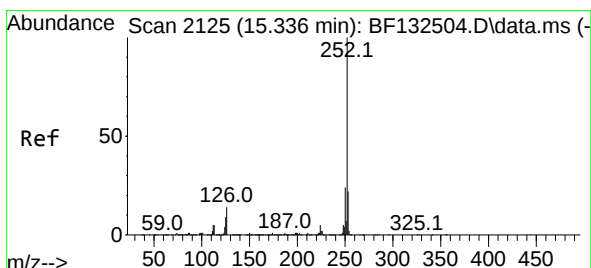
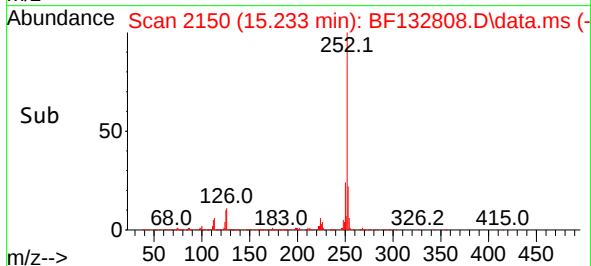
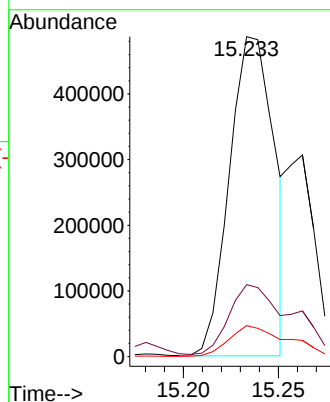
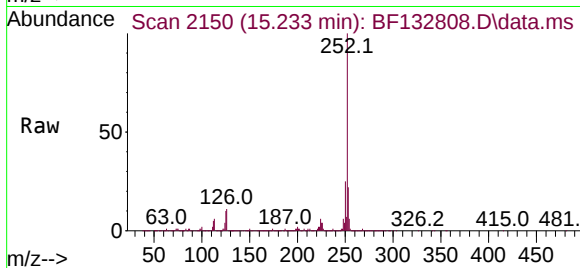
125 9.7 7.0 10.6

Manual Integrations

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Reviewed By :Christian Giraldo 03/16/2023

Supervised By :Jagrut Upadhyay 03/16/2023



#89

Benzo(k)fluoranthene

Concen: 18.993 ng m

RT: 15.263 min Scan# 2155

Delta R.T. -0.006 min

Lab File: BF132808.D

Acq: 15 Mar 2023 17:49

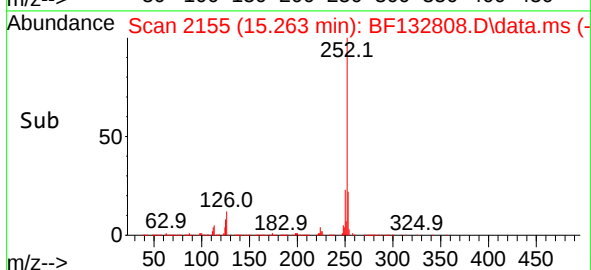
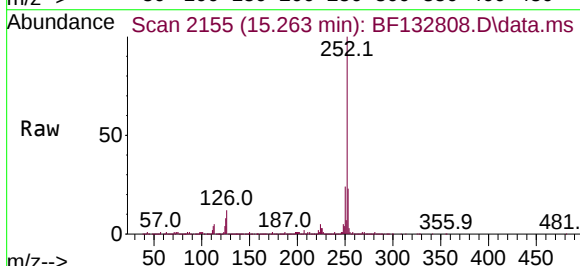
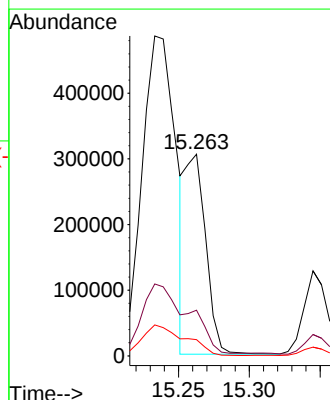
Tgt Ion:252 Resp: 304854

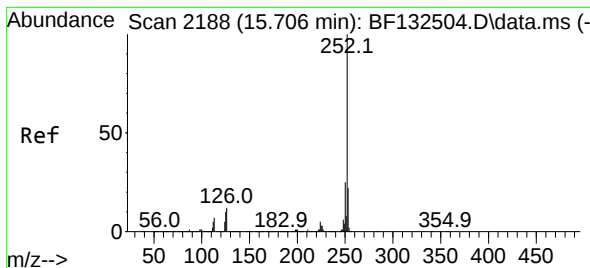
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

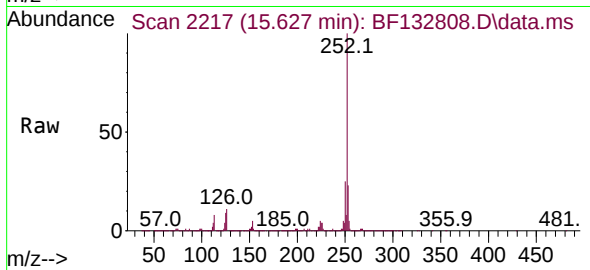
125 8.0 7.2 10.8





#90
Benzo(a)pyrene
Concen: 39.556 ng
RT: 15.627 min Scan# 2188
Delta R.T. 0.000 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

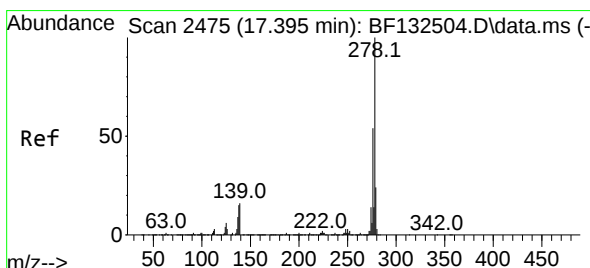
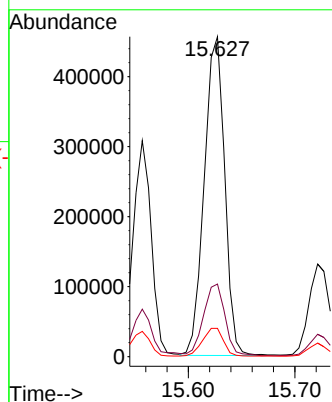
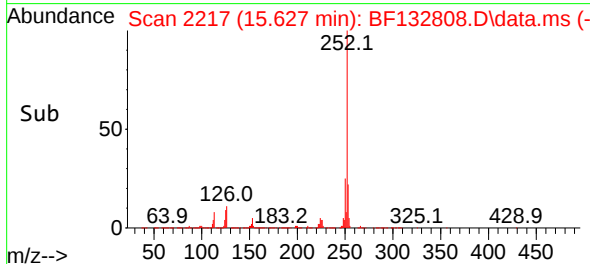
Instrument :
BNA_F
ClientSampleId :
UNION-1DL



Tgt Ion:252 Resp: 60716
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 8.8 8.0 12.0

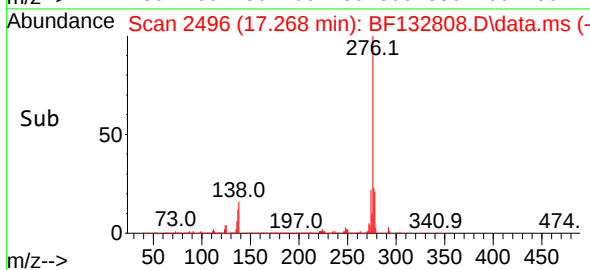
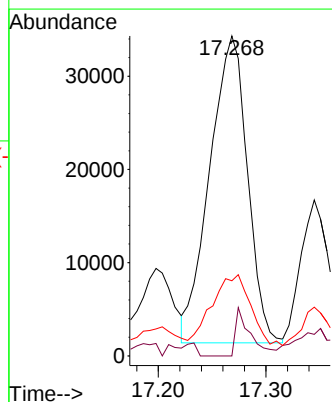
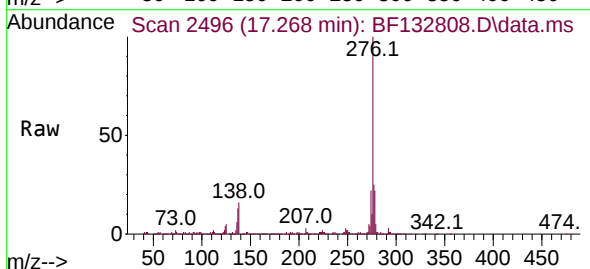
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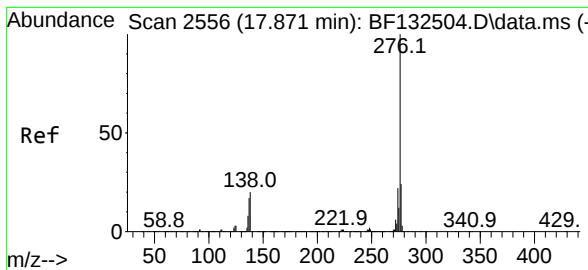
Reviewed By :Christian Giraldo 03/16/2023
Supervised By :Jagrut Upadhyay 03/16/2023



#91
Dibenzo(a,h)anthracene
Concen: 6.137 ng m
RT: 17.268 min Scan# 2496
Delta R.T. -0.018 min
Lab File: BF132808.D
Acq: 15 Mar 2023 17:49

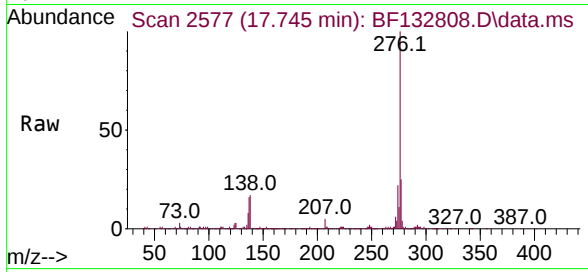
Tgt Ion:278 Resp: 80187
Ion Ratio Lower Upper
278 100
139 0.0 13.0 19.4#
279 23.5 19.0 28.4





#92
 Benzo(g,h,i)perylene
 Concen: 21.364 ng
 RT: 17.745 min Scan# 2577
 Delta R.T. -0.012 min
 Lab File: BF132808.D
 Acq: 15 Mar 2023 17:49

Instrument :
 BNA_F
 ClientSampleId :
 UNION-1DL



Tgt Ion: 276 Resp: 301754

Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	17.4	16.2	24.4

Manual Integrations
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Reviewed By : Christian Giraldo 03/16/2023
 Supervised By : Jagrut Upadhyay 03/16/2023

